AGENDA IRVINE RANCH WATER DISTRICT BOARD OF DIRECTORS REGULAR MEETING

January 25, 2016

PLEDGE OF ALLEGIANCE

CALL TO ORDER 5:00 P.M., Board Room, District Office

15600 Sand Canyon Avenue, Irvine, California

ROLL CALL Directors Matheis, Reinhart, Swan, Withers and President LaMar

NOTICE

If you wish to address the Board on any item, including Consent Calendar items, please file your name with the Secretary. Forms are provided on the lobby table. Remarks are limited to five minutes per speaker on each subject. Consent Calendar items will be acted upon by one motion, without discussion, unless a request is made for specific items to be removed from the Calendar for separate action.

COMMUNICATIONS TO THE BOARD

- 1. A. Written:
 - B. Oral:

2. ITEMS RECEIVED TOO LATE TO BE AGENDIZED

Recommendation: Determine that the need to discuss and/or take immediate action on item(s) introduced come to the attention of the District subsequent to the agenda being posted.

WORKSHOP

ENERGY STORAGE OPPORTUNITY

Staff will provide a presentation outlining an energy storage opportunity for the District.

CONSENT CALENDAR Next Resolution No. 2016-3 Items 4-10

4. MINUTES OF BOARD MEETING

Recommendation: That the minutes of the January 11, 2016 Regular Board Meeting be approved as presented.

5. RATIFY/APPROVE BOARD OF DIRECTORS' ATTENDANCE AT MEETINGS AND EVENTS

Recommendation: That the Board ratify/approve the meetings and events for Steven LaMar, Mary Aileen Matheis, Douglas Reinhart, Peer Swan, and John Withers as described.

CONSENT CALENDAR – Continued

Next Resolution No. 2016-3

Items 4-10

6. IRVINE RANCH WATER DISTRICT STRATEGIC MEASURES

Recommendation: That the Board receive and file the report.

7. <u>DECEMBER 2015 TREASURY REPORTS</u>

Recommendation: That the Board receive and file the Treasurer's Investment Summary Report, the Monthly Interest Rate Swap Summary for December 2015, and Disclosure Report of reimbursements to board members and staff; approve the December 2015 summary of payroll ach payments in the total amount of \$1,569,894 and approve the December 2015 accounts payable disbursement summary of warrants 363367 through 364168, workers' compensation distributions, wire transfers, payroll withholding distributions and voided checks in the total amount of \$33,933,726.

8. PIEZOMETER AUTOMATION FINAL ACCEPTANCE

Recommendation: That the Board accept construction of the Piezometer Automation, project 30572 (6298); authorize the General Manager to file a Notice of Completion; and authorize the payment of the retention 35 days after the date of recording the Notice of Completion.

9. ORANGE COUNTY WATER DISTRICT ANNEXATION BUDGET INCREASE

Recommendation: That the Board approve a budget increase in the amount of \$132,600, from \$439,400 to \$572,000, for Orange County Water District annexation fee 15/16, project 1363.

10. ACQUISITION OF LAND AND EASEMENTS FOR EASTWOOD AND HIDDEN CANYON PUMP STATIONS

Recommendation: That the Board authorize the acquisition of the pump station sites for Eastwood and Hidden Canyon Developments from Irvine Community Development Company LLC and the Irvine Land Company LLC; authorize the General Manager to execute the Conveyance Agreements and related deeds for the acquisitions; and authorize, subject to non-substantive changes, the General Manager to execute the agreement between the City of Irvine and IRWD with regard to the City of Irvine's storm drain easement within the proposed Eastwood Pump Station site; and adopt a Resolution authorizing acquisition of land and easements for Eastwood and Hidden Canyon Pump Stations.

Reso No. 2016-

ACTION CALENDAR

11. OCSD SERVICE AREA 7 LOCAL SEWER FACILITIES TRANSFER AGREEMENT

Recommendation: That the Board approve, subject to non-substantive changes, the Proposed Service Area 7 Local Sewer Facilities Transfer Agreement between the Orange County Sanitation District and IRWD, and authorize the President to execute the agreement on behalf of the District.

OTHER BUSINESS

Pursuant to Government Code Section 54954.2, members of the Board of Directors or staff may ask questions for clarification, make brief announcements, make brief reports on his/her own activities. The Board or a Board member may provide a reference to staff or other resources for factual information, request staff to report back at a subsequent meeting concerning any matter, or direct staff to place a matter of business on a future agenda. Such matters may be brought up under the General Manager's Report or Directors' Comments.

- 12. A. General Manager's Report
 - B. Directors' Comments
 - C. CLOSED SESSION: Conference with Real Property Negotiator relative to Government Code Section 54956.8

Property: OCSD Service Area 7 Sewer Infrastructure Agency Negotiator: Paul Cook, General Manager

Purpose of Negotiations: Proposed Acquisition of Property – Price and Terms

Availability of agenda materials: Agenda exhibits and other writings that are disclosable public records distributed to all or a majority of the members of the Irvine Ranch Water District Board of Directors in connection with a matter subject to discussion or consideration at an open meeting of the Board of Directors are available for public inspection in the District's office, 15600 Sand Canyon Avenue, Irvine, California ("District Office"). If such writings are distributed to members of the Board less than 72 hours prior to the meeting, they will be available from the District Secretary of the District Office at the same time as they are distributed to Board Members, except that if such writings are distributed one hour prior to, or during, the meeting, they will be available at the entrance to the Board of Directors Room of the District Office. The Irvine Ranch Water District Board Room is wheelchair accessible. If you require any special disability-related accommodations (e.g., access to an amplified sound system, etc.), please contact the District Secretary at (949) 453-5300 during business hours at least seventy-two (72) hours prior to the scheduled meeting. This agenda can be obtained in alternative format upon written request to the District Secretary at least seventy-two (72) hours prior to the scheduled meeting.

January 25, 2016

Prepared and

Submitted by: L. Bonkowski

Approved by: P. Cook

CONSENT CALENDAR

MINUTES OF BOARD MEETING

SUMMARY:

Provided are the minutes of the January 11, 2016 Regular Board Meeting for approval.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Not applicable.

RECOMMENDATION:

THAT THE MINUTES OF THE JANUARY 11, 2016 REGULAR BOARD MEETING BE APPROVED AS PRESENTED.

LIST OF EXHIBITS:

Exhibit "A" – January 11, 2016 Minutes

EXHIBIT "A"

MINUTES OF REGULAR MEETING – JANUARY 11, 2016

The regular meeting of the Board of Directors of the Irvine Ranch Water District (IRWD) was called to order at 5:00 p.m. by President Matheis on January 11, 2016 in the District office, 15600 Sand Canyon Avenue, Irvine, California.

Directors Present: Reinhart, LaMar, Swan, Matheis and Withers

Directors Absent: None.

Also Present: General Manager Cook, Executive Director of Finance and Administration Clary, Executive Director of Engineering and Water Quality Burton, Executive Director of Water Policy Weghorst, Director of Treasury and Risk Management Jacobson, Director of Public Affairs Beeman, Director of Water Resources Sanchez, Director of Human Resources Roney, Principle Engineer Akiyoshi, Legal Counsel Arneson, Secretary Bonkowski, Assistant Secretary Savedra, Government Relations Officer Compton, Mr. Bruce Newell, Mr. Jim Reed, Ms. Kellie Welch, Ms. Jo Ann Corey, Mr. Barkev Meserlian, Mr. Matthew Veeh, and Ms. Mareen O'Haren.

WRITTEN AND ORAL COMMUNICATIONS: None.

ITEMS RECEIVED TOO LATE: None.

PRESENTATION

Ms. Maureen O'Haren, the District's state advocate, provided an update on 2016 legislative activities.

CONSENT CALENDAR

On <u>MOTION</u> by Withers, seconded and unanimously carried, CONSENT CALENDAR ITEMS 4 THROUGH 7 WERE APPROVED AS FOLLOWS:

4. MINUTES OF REGULAR BOARD MEETING

Recommendation: That the minutes of the December 14, 2015 Regular Board meeting be approved as presented.

5. NOVEMBER 2015 TREASURY REPORTS

Recommendation: That the Board receive and file the Treasurer's Investment Summary Report, the Monthly Interest Rate Swap Summary for November 2015, and Disclosure Report of Reimbursements to Board members and staff; approve the November 2015 Summary of Payroll ACH payments in the total amount of \$1,743,254 and approve the November 2015 Accounts Payable Disbursement Summary of warrants 362729 through 363366, Workers' Compensation distributions, wire transfers, payroll withholding distributions and voided checks in the total amount of \$15,935,844.

CONSENT CALENDAR (Continued)

6. 2016 LEGISLATIVE UPDATE

Recommendation: That the Board adopt an "OPPOSE" position on SB 163 (Hertzberg, D-Van Nuys) related to wastewater treatment and recycled water, and authorize the District to submit a letter of concern on the bill as requested by Senator Hertzberg's office.

7. RATTLESNAKE RESERVOIR CHLORINE GAS SYSTEM REMOVAL FINAL ACCEPTANCE

Recommendation: That the Board authorize the General Manager to accept construction of Rattlesnake Reservoir Chlorine Gas System Removal Project, project 30435 (4959); authorize the General Manager to file a Notice of Completion; and authorize the release of retention 35 days after filing of the Notice of Completion.

ACTION CALENDAR

FINAL INITIAL STUDY/MITIGATED NEGATIVE DECLARATION FOR IRVINE LAKE PIPELINE NORTH CONVERSION PROJECT

General Manager Cook reported that a Final Initial Study/Mitigated Negative Declaration (Final IS/MND) for the proposed Irvine Lake Pipeline North Conversion Project (Project) has been prepared. Mr. Cook said that the Project will convert the northern section of the Irvine Lake Pipeline from an untreated water system to a recycled water system to provide recycled water to existing customers in IRWD's North Tustin service area along Jamboree Road and for permanent agricultural uses in Orchard Hills. The Project will also extend the recycled water system to new customers including Santiago Canyon College, Irvine Regional Park, the Cemetery of the Holy Sepulcher, Improvement District 252 and the future Santiago Hills II residential development.

Using a PowerPoint presentation, Ms. Jo Ann Corey provided a project overview and description. She said that a Draft Initial Study/Mitigated Negative Declaration (Draft IS/MND) for the project was prepared by environmental consultants at Bonterra Psomas. She said that on November 4, 2015, the Draft IS/MND was circulated for public review pursuant to CEQA. Four letters providing comments on the Draft IS/MND were received during the public review period that concluded on December 3, 2015. The agencies that provided comments were Metropolitan Water District of Southern California, the City of Orange, the City of Irvine and the California Department of Transportation. She said that staff reviewed all received comments and worked with Bonterra to prepare responses to comments that are included in the Final IS/MND, along with necessary corrections and additions to the document. These additions include a Mitigation Monitoring and Reporting Program. She said that the document includes Mandatory Findings of Significance on pages 5-54 which conclude that with the incorporation of the identified mitigation measures, all potential impacts would be reduced to less than significant levels.

On MOTION by Reinhart, seconded and unanimously carried, THE BOARD FOUND ON THE BASIS OF THE WHOLE RECORD BEFORE IT, INCLUDING THE INITIAL STUDY/MITIGATED NEGATIVE DECLARATION AND THE COMMENTS RECEIVED, THAT THERE WAS NO SUBSTANTIAL EVIDENCE THAT THE IRVINE LAKE PIPELINE NORTH CONVERSION PROJECT WILL HAVE A SIGNIFICANT EFFECT ON THE ENVIRONMENT AND THAT THE MITIGATED NEGATIVE DECLARATION REFLECTS IRWD'S INDEPENDENT JUDGMENT AND ANALYSIS; ADOPTED THE PROPOSED MITIGATED NEGATIVE DECLARATION FOR THE IRVINE LAKE PIPELINE NORTH CONVERSION PROJECT AND THE ASSOCIATED MITIGATION MONITORING AND REPORTING PROGRAM; APPROVED THE PROJECT; AND AUTHORIZED STAFF TO POST AND FILE A NOTICE OF DETERMINATION, AND SUBMIT PAYMENT FOR THE CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE SERVICE FILING FEE.

EATON PROPERTY PURCHASE

General Manager Cook reported that IRWD is pursuing the purchase of property within the Palo Verde Irrigation District (PVID) that will become another element of IRWD's long-term program to increase water supply reliability for its customers during droughts and other potential water supply interruptions. Mr. Cook said that on December 4, 2015, Bardeen Partners, Inc., pursuant to provisions included in its Articles of Incorporation, executed a Real Property Purchase Agreement (Purchase Agreement) for the Eaton Property comprised of 616.19 acres of land within PVID in Riverside County (Property). The Purchase Agreement provides an opportunity to conduct tests, inspections, evaluations and such other due diligence activities as deemed necessary prior to the acquisition of the Property. The due diligence work has been completed and this report provides the Board with the findings.

Executive Director of Water Policy Weghorst provided an overview of the plan for the Eaton property. Mr. Weghorst said that in the near term, land purchased by IRWD in the PVID service area would continue to be farmed essentially as it is today as follows: 1) tenant farm leases, which would generate income for IRWD, would be maintained on the Property and the farming operations would be supervised by District staff and consultants, and 2) as a participant in the existing MWD/PVID fallowing program, IRWD, as a landowner, would receive fallowing payments from MWD.

Mr. Weghorst said that in the long term, IRWD-owned land within PVID would be utilized as follows: 1) the land would continue to be cultivated through tenant farm leases; 2) as a landowner, IRWD could participate in any fallowing and other water conservation programs developed and implemented by MWD and PVID; and 3) IRWD would work with MWD and MWDOC to develop mutually-beneficial programs and agreements through which IRWD would receive increased water supply reliability during periods of drought and supply interruptions in exchange for water conserved on IRWD-owned lands in PVID.

Mr. Weghorst reviewed the key terms of the purchase agreement. He said that one key term in the Purchase Agreement is that the seller has agreed to remove an approximate one-acre site from one of the proposed parcels to be purchased. The removal will make the one-acre site a separate legal parcel from the land to be purchased prior to the close of escrow. The seller must provide a recorded parcel map showing the removal of this site from the land to be purchased.

The Purchase Agreement provides for a 40-day due diligence period in which there is an opportunity to conduct any studies, tests and inspections that are deemed necessary prior to the acquisition of the Property. This due diligence period ends on January 13, 2016 and the close of escrow is scheduled to take place by January 28, 2016, assuming the one-acre parcel detachment is complete.

Mr. Weghorst said that the due diligence investigations for the Property have been completed which include a Preliminary Title Report review; an Environmental Phase 1 site assessment; examination of surface soils, flood and seismic hazards; a crop water use study; a review of mineral rights; an American Land Title Association survey; a review of the general plan for the area; and a review of Williamson Act and zoning designations. Dee Jaspar & Associates (DJA) was retained to oversee the due diligence investigations and to complete a Baseline Property Assessment Report on the Eaton Property. He said from a physical standpoint, the Baseline Property Assessment Report concludes that the Eaton Property is in good condition and suitable for purchase. The sites consist of cultivated and fallow agricultural fields, water supply channels and dirt access roads.

Mr. Weghorst said that a Phase 1 Environmental Site Assessment was performed by subcontractor Advanced Environmental Concepts, Inc. (AEC) and the evaluation concluded the Property is acceptable with the exception of ash piles partially located along the northern edge of the access road on the most western parcel. AEC recommends that the ash be profiled, removed and transported for offsite disposal. The presence of the ash piles is not considered to be significant to the decision to purchase the Property.

Mr. Weghorst said an American Land Title Association (ALTA) survey was conducted by DJA which identifies and documents all easements to the Property. The ALTA survey determined the Property boundaries and encroachments, and shows the lands dedicated for field roads and public road easements, underground utilities easements and water district or other public utility easements. The ALTA survey confirms actual gross acreage of 626.12 acres which equates to 9.96 more acres than estimated in the Purchase Agreement. The Property is zoned by Riverside County as agricultural and rural residential. The Property is not within a Williamson Act contract.

Mr. Weghorst said that the Purchase Agreement provides for IRWD to acquire any oil, gas or mineral rights ("mineral rights") held by the seller. Based on the Preliminary Title Report, the seller owns the mineral rights for the Property.

Mr. Weghorst said that in 2002, MWD and PVID entered into a 35-year Palo Verde Land Management, Crop Rotation and Water Supply Program (Fallowing Program), whereby MWD makes fallowing payments to PVID landowners who chose to participate in the Fallowing Program. The Property owner entered into an agreement in July 2005 to participate in the Fallowing Program for a maximum fallowing commitment of 248 acres. The landowner agreement will be assigned by the seller to IRWD.

Director Swan reported that this item was reviewed and approved by the Water Banking Committee subject to approval of the assignment of the purchase agreement to IRWD by Bardeen Partners, Inc. On MOTION by Swan, seconded and unanimously carried, THE BOARD, SUBJECT TO BARDEEN PARTNERS, INC. APPROVAL OF THE ASSIGNMENT OF THE PURCHASE AGREEMENT TO IRWD, AUTHORIZED THE GENERAL MANAGER TO EXECUTE THE ASSIGNMENT AND ASSUMPTION OF REAL PROPERTY PURCHASE AGREEMENT ACCEPTING THE ASSIGNMENT OF THE PURCHASE AND SALE AGREEMENT FROM BARDEEN PARTNERS, INC.; FIND THAT ALL MATTERS CURRENTLY IDENTIFIED WITH REGARD TO THE CONDITION OF TITLE, PHYSICAL CONDITION AND SUITABILITY OF THE PROPERTY FOR THE USES CONTEMPLATED ARE ACCEPTABLE; APPROVED THE ADDITION OF PROJECT 11914 (6956) TO THE FY 2015-16 CAPITAL BUDGET IN THE AMOUNT OF \$10,240,000 FOR THE PURCHASE OF THE EATON PROPERTY; FOUND THAT THE PROPERTY ACOUISITION ONLY IS EXEMPT FROM CEOA; APPROVED THE PROJECT AND AUTHORIZED STAFF TO POST AND FILE THE NOTICES OF EXEMPTION IN ORANGE AND RIVERSIDE COUNTIES; AND AUTHORIZED THE GENERAL MANAGER AND TREASURER AND EACH OTHER OFFICER OF THE DISTRICT, EACH ACTING SINGLY, TO EXECUTE AND DELIVER ANY AND ALL DOCUMENTS, PROGRAM ASSIGNMENTS, CERTIFICATES, INSTRUCTIONS AND INSTRUMENTS NECESSARY OR PROPER FOR CARRYING OUT AND CLOSING THE REAL ESTATE PURCHASE TRANSACTION FOR THE ACQUISITION OF PROPERTY.

<u>RATIFICATION OF MEMORANDUM RELATIVE TO THE OFFICERS OF THE BOARD,</u> COMMITTEES AND OTHER ASSIGNMENTS

President Matheis reported that she had made one additional change where she will also be the representative along with Director LaMar on the Southern California Water Committee meetings. There being no objections, on MOTION by Reinhart, seconded and unanimously carried, THE BOARD RATIFIED THE AMENDED MEMORANDUM DATED JANUARY 8, 2016 ENTITLED OFFICERS OF THE BOARD, COMMITTEES AND OTHER ASSIGNMENTS; APPROVED ATTENDANCE FOR THE MEETINGS AND EVENTS FOR THE BOARD'S REPRESENTATION FOR CALENDAR YEAR 2016 AS DELINEATED, AND ADOPTED THE FOLLOWING RESOLUTIONS BY TITLE:

RESOLUTION NO. 2016-1

RESOLUTION OF THE BOARD OF DIRECTORS OF IRVINE RANCH WATER DISTRICT, RESCINDING RESOLUTION NO. 2015-1 AND REVISING THE ASSIGNMENT OF DIRECTORS TO COMMITTEES OF THE BOARD

RESOLUTION NO. 2016-2

RESOLUTION OF THE BOARD OF DIRECTORS OF IRVINE RANCH WATER DISTRICT, RESCINDING RESOLUTION NO. 2006-14 DESIGNATING REPRESENTATIVES OF THE BOARD OF DIRECTORS OF THE NATIONAL WATER RESEARCH INSTITUTE

OTHER BUSINESS

GENERAL MANAGER'S REPORT

General Manager Cook reported on the water conservation savings for December noting that customers conserved 13% or 589 acre-feet of water equaling a savings of 17.4%. He said that residents are using an average of 60 gallons per capita per day.

He reported that one of the District's commercial customers, Royalty Carpets, converted to reclaimed water today.

He said that as of January 6, Irvine Lake received 3.22" of rainfall and is up 6/10th of an inch.

He noted that Mr. Joe Brieter, a 30-year former employee, recently passed, and asked that the meeting be adjourned in his memory.

DIRECTORS' COMMENTS

Director LaMar reported that he attended his first ACWA Board meeting this year via teleconference, as well as a meeting with MWDOC and MWD staff discussing levees on the east side.

Director Withers reported that he and Director Matheis will be attending an upcoming ISDOC meeting, an OCSD meeting on the 27th of January where they will be kicking off a biosolids strategic plan, and a Tustin Mayors event on January 29th.

Director Swan reported that he attended a Colorado River Water Users conference, a WACO meeting, and an OCWD Committee meeting where they approved Laguna Beach's allocation into the basin.

Director Reinhart reported that he attended a MWDOC Board workshop, a WACO meeting, and a SOCWA Board meeting.

Director Matheis reported that she attended a WACO meeting and a Colorado River Water Users Conference.

RECESS AND RECONVENE

President Matheis recessed the Board meeting at 6:12 p.m. to hold a Bardeen Partners, Inc. Board meeting. The meeting reconvened with all Board members present.

CLOSED SESSION

President Matheis said that the following Closed Session will be held:

CLOSED SESSION CONFERENCE with Real Property Negotiator relative to Government Code Section 54956.8

Property: OCSD Service Area 7 Sewer Infrastructure Agency Negotiator: Paul Cook, General Manager

Purpose of Negotiations: Proposed Acquisition of Property – Price and Terms

OPEN SESSION

Following the Closed Session, the meeting was reconvened with Reinhart, Withers, LaMar, Swan, and Matheis present. President Matheis said that there was no action to report.

ADJOURNMENT

President Matheis adjourned the meeting in memory of former employee Joe Brieter.

APPROVED and SIGNED this 25th day of January, 2016.

	President, IRVINE RANCH WATER DISTRICT
	Secretary IRVINE RANCH WATER DISTRICT
APPROVED AS TO FORM:	
ATTROVED AS TOTORIVI.	
Legal Counsel - Bowie, Arneson, W	iles & Giannone

January 25, 2016

Prepared and

Submitted by: N. Savedra

Approved by: P. Cook

CONSENT CALENDAR

RATIFY/APPROVE BOARD OF DIRECTORS' ATTENDANCE AT MEETINGS AND EVENTS

SUMMARY:

Pursuant to Resolution 2006-29 adopted on August 28, 2006, approval of attendance of the following events and meetings are required by the Board of Directors.

	Events/Meetings
Steven LaMar	
12/11/15	Video Recording for the Economist Magazine at Operations Center
12/21/15	Meeting re: Preliminary Polling Resolution for Service Area 7
1/06/16	ACWA Board Meeting via teleconference
1/22/16	MWDOC Water Policy Forum
1/22/16	Southern California Water Committee Quarterly Meeting
1/26/16	South Orange County Agencies' Meeting
1/27/16	Natural Communities Coalition Executive Committee Meeting
1/28-29/16	ACWA Board Meeting/Workshop, Sacramento, CA
Mary Aileen M	<u>Matheis</u>
1/20/16	Shadetree Partnership Board of Directors Meeting
1/20/16	MNWD/IRWD Meeting with Board of Directors
1/21/16	Cleantech Connect: Water & Energy Innovation Forum
1/22/16	MWDOC Water Policy Forum
1/22/16	Southern California Water Committee Quarterly Meeting
1/25/16	Monthly Meeting w/General Manager Paul Cook re: District Activities
1/28/16	Tour of OCSD & OCWD Groundwater Replenishment System
1/29/15	Tustin Mayor John Nielsen Inaugural Dinner Meeting
Douglas Reinh	art

Douglas Reinhart

1/20/16	MNWD/IRWD Meeting with Board of Directors
1/22/16	MWDOC Water Policy Forum
1/26/16	South Orange County Agencies' Meeting

Peer Swan

1/06/16	OCWD Board Meeting
1/20-22/16	CASA Winter Conference, Palm Springs, CA
1/22/16	MWDOC Water Policy Forum
1/27/16	Southern California Water Dialogue Meeting

Consent Calendar: Ratify/Approve Board of Directors' Attendance at Meetings and Events January 25, 2016

Page 2

John Withers

1/21/16	NWRI Operations Committee Meeting
1/22/16	MWDOC Water Policy Forum
1/28/16	ISDOC Quarterly Luncheon Meeting
1/28/16	Tour of OCSD & OCWD Groundwater Replenishment System
1/29/16	Tustin Mayor John Nielsen Inaugural Dinner Meeting

RECOMMENDATION:

THAT THE BOARD RATIFY/APPROVE THE MEETINGS AND EVENTS FOR STEVEN LAMAR, MARY AILEEN MATHEIS, DOUGLAS REINHART, PEER SWAN, AND JOHN WITHERS AS DESCRIBED.

LIST OF EXHIBITS:

None

January 25, 2016

Prepared by: T. Bertsch / C. Smithson

Submitted by: Cheryl Clary CAPProved by: Paul Cook

CONSENT CALENDAR

IRVINE RANCH WATER DISTRICT STRATEGIC MEASURES

SUMMARY:

Provided as Exhibit "A" are the IRWD Strategic Measures and informational items for the Board's review. These measures are intended to reflect the critical performance measures that gauge the District's key business objectives.

BACKGROUND:

The proposed strategic measures document summarizes a number of operating performance, financial, customer and other key measures important to the ongoing operation of the District. These measures were selected and designed to provide a "snapshot" view of the measures that would be of interest to the Board.

FISCAL IMPACTS:

Not applicable.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

RECOMMENDATION:

THAT THE BOARD RECEIVE AND FILE THE REPORT.

LIST OF EXHIBITS:

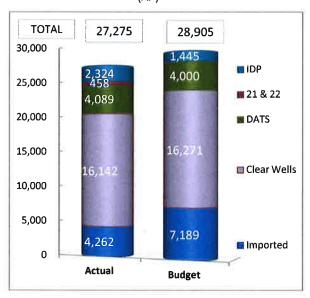
Exhibit "A" – December 2015 Strategic Measures

IRVINE RANCH WATER DISTRICT

Operational Performance Measures

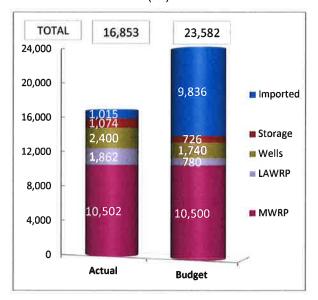
Data as of December 31, 2015

Potable Water Production FYTD
(AF)

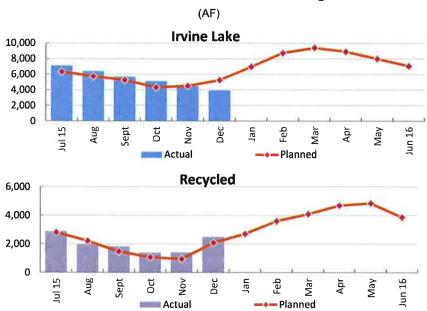


Non-Potable Water Production FYTD

(AF)

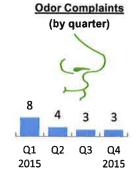


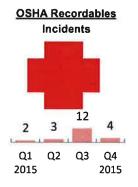
Non-Potable Reservoir Storage

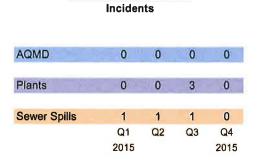


Cost Per MG At MWRP FYTD









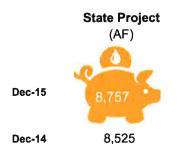
Regulatory Compliance

IRVINE RANCH WATER DISTRICT

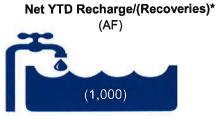
Other Statistical Information

Data as of December 31, 2015

Banked Water







*Calendar Year including extraordinary supply received.

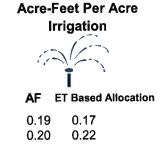
FY15-16 Q2

FY13-14 Q2

Certificates of Occupancies FYTD



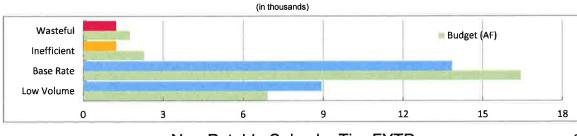


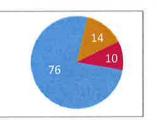


32,379 68 Jun-Dec 2015 Jun-Dec 2013 39,257 88 Reduction 17.5% 23% **State Mandate** 16.0%

Potable Sales by Tier FYTD

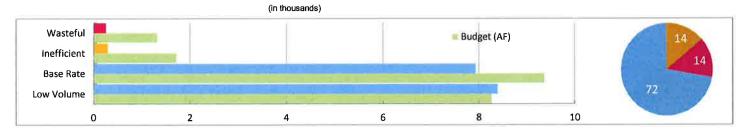
% of Customers by Tier





Non-Potable Sales by Tier FYTD

% of Customers by Tier

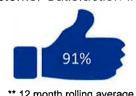


Imported Water FYTD





Customer Satisfaction Index**



** 12 month rolling average

January 25, 2016

Prepared by: Jennifer Davis/Tanja Fournier

Submitted by: Robert Jacobson/Cheryl Clary

Approved by: Paul Cook

CONSENT CALENDAR

DECEMBER 2015 TREASURY REPORTS

SUMMARY:

The following is submitted for the Board's information and approval:

- A. The Investment Summary Report for December 2015. This Investment Summary Report is in conformity with the 2015 Investment Policy and provides sufficient liquidity to meet estimated expenditures during the next six months, as outlined in Exhibit "A".
- The Monthly Interest Rate Swap Summary as of December 31, 2015, as outlined В. in Exhibit "B".
- The Summary of Payroll ACH payments in the total amount of \$1,569,894, as C. outlined in Exhibit "C".
- The December 31, 2015 Disbursement Summary of warrants 363367 through D. 364168, wire transfers, Workers' Compensation distributions, payroll withholding distributions, and voided checks in the total amount of \$33,933,726 as outlined in Exhibit "D".
- The Disclosure Report of Reimbursements to Board Members and Staff for E. December 2015, detailing payments or reimbursements for individual charges of \$100.00 or more per transaction, as outlined in Exhibit "E".

FISCAL IMPACTS:

As of December 31, 2015, the book value of the investment portfolio was \$244,972,699, with a 0.60% rate of return and a market value of \$244,674,839. Based on the District's December 31, 2015 quarterly real estate investment rate of return of 12.92%, the weighted average return for the fixed income and real estate investments was 3.44%.

As of December 31, 2015, the total notional amount of the interest rate swap portfolio was \$130 million of fixed payer swaps. Cash accrual in December from all swaps was negative \$636,907.

Payroll ACH payments totaled \$1,569,894, and wire transfers, all other ACH payments, and checks issued for debt service, accounts payable, payroll, and water purchases for December totaled \$33,933,726.

Consent Calendar – December 2015 Treasury Reports January 25, 2016 Page 2

ENVIRONMENTAL COMPLIANCE:

This item is not a project as defined in the California Environmental Quality Act Code of Regulations, Title 14, Chapter 3 Section 15378.

COMMITTEE STATUS:

This item was not submitted to a Committee; however, the investment and interest rate swap reports are submitted to the Finance and Personnel Committee on a monthly basis.

RECOMMENDATION:

THAT THE BOARD RECEIVE AND FILE THE TREASURER'S INVESTMENT SUMMARY REPORT, THE MONTHLY INTEREST RATE SWAP SUMMARY FOR DECEMBER 2015, AND DISCLOSURE REPORT OF REIMBURSEMENTS TO BOARD MEMBERS AND STAFF; APPROVE THE DECEMBER 2015 SUMMARY OF PAYROLL ACH PAYMENTS IN THE TOTAL AMOUNT OF \$1,569,894 AND APPROVE THE DECEMBER 2015 ACCOUNTS PAYABLE DISBURSEMENT SUMMARY OF WARRANTS 363367 THROUGH 364168, WORKERS' COMPENSATION DISTRIBUTIONS, WIRE TRANSFERS, PAYROLL WITHHOLDING DISTRIBUTIONS AND VOIDED CHECKS IN THE TOTAL AMOUNT OF \$33,933,726.

LIST OF EXHIBITS:

Exhibit "A" - Investment Summary Report

Exhibit "B" - Monthly Interest Rate Swap Summary

Exhibit "C" - Monthly Payroll ACH Summary

Exhibit "D" - Monthly Summary of District Disbursements

Exhibit "E" - Disclosure of Reimbursements to Board Members and Staff

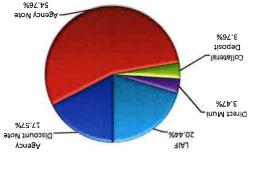
"A" iididx3

Irvine Ranch Water District Investment Portfolio Summary December 2015

Investment Summary

Market Value	Book Value	avd	9qv.T
134,034,840	134,289,372	134,000,000	Agency Note
845,629,348	000,000,02	000,000,02	FIAIF
45,983,850	42,986,526	43,000,000	Agency Discount Note
9,200,226	9,200,226	9,200,226	Collateral Deposit
572,844,875	272,894,8	8,496,575	Direct Muni
244,674,839	244,972,699	108,696,442	Grand Total

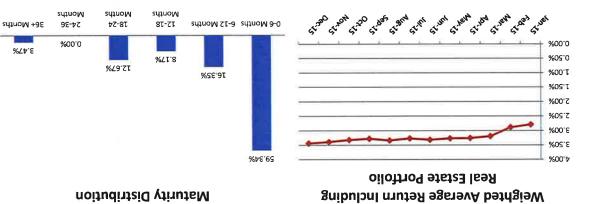
Portfolio Distribution



1

Top Issuers

% Portfolio	PAR	Janss
%90'IE	000'000'92	Fed Home Loan Bank
75.88%	26,000,000	Fed Home Loan Mortgage Corp
%pt 07	000,000,02	State of California Treasury - LAIF
%9Z Z I	30,000,000	Fed Natl Mongage Assoc
%60 ⁻ t	10'000'000	Fed Farm Credit Bank
%L# E	272,844,8	ELMD
3.23%	7,900,226	Ciri-Group Collateral
7'04%	000,000,2	Fed Ag Mongage Corp
%ES 0	1,300,000	Merrill Lynch Collateral



%0t'E %tt'E	%†8°ZI %Z6°Z1	%\$9°0 %\$\$0 %09°0	Десешрет Мочешрет Срапge											his Investment Summs the provides sufficient 5 - Step up
Weighted Avg. Return	Real Estate ⁶⁰ Portfolio	Investment Portfolio							sə/	gnerta ater tearetri no 1	nity, dependen			Calculation excludes Swap Collateral Depo
741	With the state of	-	winnisM oT	er of Days	me Cump	vA - oilohnoq				шm)	диалтет епа те			Real estate rate of ret
%671						investment to			New York/or Brokers					
876,583,678					puce:	ы усыналы							ania	dor broker dealer pri
000'008'681\$		cd-payer swaps)	(Less \$130 million fix	Rate Debt	oldsins∀ go	Net Outstandi			зырсив	"Trading Prices"). Bloo				
000,008.91£2				te Debt	ariable Rai	√ griibnstauO				"HIALI yd bor	er-end as repor	trecent quart	as of the mos	LAIF market value is
			79 773,582,2428											
			3,400 00 07 274 244					Bank of America	Petty Cash Ck Balance	December				
	\$0 658,476,4428	££ 669 77 6.99 33	\$245,137,802,27				108'969'++7\$	=					IMENTS	TOTAL INVES
	\$6,200,226.23	\$9,200,226.23	£2 977°007°6\$	-			977 007 6\$	_						SUB-TOTAL
	1 300 000 00	00 000 000 1\$	00 000'00€'1\$		%00Z 0		000.006,12	Метііі Гулсһ	Collateral Deposit					\$1/20/71
	7.900.226 23	£Z 9ZZ,000,7\$	\$7 900,226 23		%007 0		977 006'4\$	Ciu-Group	Collateral Deposit					\$1/10/71
											(2)(ztisoq	Collateral De	gew2) HZA	RESTRICTED O
(\$2.098 7.928)	\$235.474.612.82	01_674,277_2652	\$0.372,759,25£\$	•			\$72,496,572	=						SUB-TOTAL
	L9 7L5 967 8	L9 +L5 96+'8	L9"\$L5"96\$"8	%0L5 b	%0LS t	%0LS 7	272,894.8	ETWD	inuM toavid	ИК	9E/0E/ 1 0	V/N	90%	\$1/0E/\$0
(5.248.61)	00'087'E66'5	19 825.896,5	00 005,899,2		%8£I I	1"152%	000'000'9	Fed Home Loan Mortgage Corp	FHLMC - Note	AAA+AA		91/81/60	Quarterly	12/18/12
(79.884.7)	4,962,600,00	76,880,076,4	00 005 6967		132%	%078 0	5,000,000	Fed Farm Credit Bank	FFCB - Note	AN/+AA\ggA	12/12/17	12/13/13	™ls sucunutro⊃	17/18/12
(00,000,01)	4,984,000 00	00 000,000 €	00 000,000 2		% <u>7</u> 66 0	%000 I	000,000,2	Fed Home Loan Bank	FHLB - Note	AV\+AA\EEA	ZI/91/01	£1/91/10	Continuous after Continuous after	\$1/67/10
41 055,5 (85 462,85)	00 000 196 7	8E †95'666'† 98 614 866'†	00 002,899,4 00 002,999,4 00 002,999,4	9/00/0	%\$180 0°612%	%018 0 %006 0	000,000,2 000,000,2	Fed Home Loan Mortgage Corp Fed Farm Credit Bank	FFCB - Note	AAA\+AA\66A 7V\+AA\66A	L1/87/60		One Tune	\$1/67/60 \$1/91/60
(20,93746)	00 050,479,4 5 000,050 00	98 612 866 V	00 005,266,4	76090 0	%0080	%05L0	000,000.2	Fed Home Loan Bank	FHLB - Note	AN/+AA/ssA	71/82/80	V/N	V/N	\$1/\$0/11
(57 361,22)	00 009'946'7	ET 367.869.4	00 003 300 1		%Zt9 0	%\$79 0	000 000 5	Fed Home Loan Bank	FHLB - Note	NR	∠1/0€/50	V/N	A/N	\$1/27/80
(82 714.01)	4.983.300.00	85,717,E99.4	4.990,950,00		%1710	%579 0	5,000,000	Fed Home Loan Bank	FHLB - Note	AN/+AA\ggA	Z1/0E/E0	₱I/EI/90	W/N	51/51/90
(19.882 69)	00 004.799.4	5,017,282,69	5,021,500,00		%0LS 0	%\$480	5,000,000	Fed Home Loan Mortgage Corp	FHLMC - Note	AAA\+AA\eeA	71/22/20	V/N	A\u00e4N	\$1/17/60
(11,959,12)	5.018.750.00	11 689 0+0'5	00 544.640.2		%76+0	%057'1	5,000,000	Fed Matl Mortgage Assoc	FNMA - Note	AAA\+AA\ssA	41/0E/10	∀/N	A\N	\$1/80/01
(13,987,53)	5.037,000,00	52,786,020,2	5,066,150,00		%7550	%\$79 I	\$`000`000\$	Fed Home Loan Bank	FHLB - Note	AAA\+AA\66A	91/60/71	V/N	AM	\$1/17/60
00'059	00,025,000,2	5,000,000,0	00 000 000 5	%0090		%009 0	000,000,2	Fed Home Loan Mortgage Corp	FHLMC - Note	AV/+AA\55A	91/51/11	\$1/\$1/\$0	Quantrily	11/28/14
(95 177)	5,014,800,00	5 015,241 56	00 006,220,2		%8L5 0	%026 0 %057 I	000,000,01	Fed Nail Mongage Assoc Fed Ag Mongage Corp	FAMCA - Note	AAA\+AA\&bA AN	91/87/60 91/87/60	906	WIN	\$1/\$1/90 \$1/61/01
(14 614 81) (27 246 0E)	10,036,200,00	10,098,919 41	10,085,280,00		%Z+£0	7,000	10 000 000	Fed Home Loan Mortgage Corp	FHLMC - Note FNMA - Note	AAA\+AA\66A	91/57/80		VN	SI/60/90
(E8.191.E)	00 005 080 01	£8 142,749.41	00 006 787 01		%t8t0	%SLE"0	000,000,2	Fed Math Mortgage Assoc	Stolf - AMVT	AAA\+AA\ssA	91/\$0/40		904	₹I/80/50
(67 038.E)	4,995,250 00	64 018 866 4	\$9 160 966 \$		%+7+0	%5LE'0	000'000'S	Fed Home Loan Mortgage Corp	FHLMC - Note	AAA/+AA/66A	91/27/90		Vol.	11/20/14
(28 956.9)	00 054 866 7	28 907,000,2	00.084.100.8		%StE 0	%5LE'0	5,000,000	Fed Home Loan Bank	FHLB - Note	AN/+AA\EEA	91/\$7/90		YN	\$1/10/20
(88 166 1)	4.998.250,00	88 149'666'4	4,999,200 00		%5580	%07E 0	000.000,2	Fed Home Loan Bank	FHLB - Note	AN/+AA\66A	91/07/90	Y/K	900	\$1/ b 0/90
(T+ 122.2)	5,038,450,00	47 100 740 S	00 059 111'5		%±0E'0	%005"7	5.000,000	Fed Home Loan Mortgage Corp	FHLMC - Note	AAA/+AA/66A	91/27/50	VW	44	\$1/07/\$0
(3 720 69)	4,995.250.00	69 046 866 7	4.997.285.00		%50E'0	%0570	5,000,000	Fed Home Loan Bank	FHLB - Note	AM+AA\ggA	91/81/90	ViN	444	91/07/50
(4.317.92)	5,000,450,00	5,004,767,92	00 009 ∠00 ⊊		%852,0	%00£0	5,000,000	Fed Home Loan Mortgage Corp	FHLMC - Note	AAA\+AA\qqq	91/81/90		VX	\$1/41/01
(1,435,89)	2,998,410 00	2 999,845 89	00 595,699,5		0312%	%00€0	3,000,000	Fed Home Loan Bank	FHLB - Note	AM+AA\BBA	91/#0/50		VN	\$1/07/\$0
(2,400.00)	00 009 7 66 4	00 000,000 8	2 000 000 00		%077'0	%077 0 %077 0	000,000,8	Fed Home Loan Bank Discount Mote Fed Home Loan Bank	FHLB - Discount Note FHLB - Note	ИК ИК	91/20/ 1/ 0 91/91/£0		VN	\$1/91/01 \$1/EZ/11
(11 387) (30 394,1)	00 007 \$66 Z 00 001 966 6	99 999 966 L 11 988 966 6	77 797,589 93 29 983,797 22		%£07'0	%002 0 %061 0	10,000,000	Fed Matl Mortgage Discount Mote	FMMA - Discount Note	N.B.	91/91/60		VN.	\$1/87/10
(00 \$78)	00 005 966 6	00 275,766,6	L9 16L 686 6		%8410	%541°0	10'000'000	Fed Home Loan Mortgage Corp -Discount Mote	FHLMC - Discount Note	NK	05/24/16		VN	\$1/67/40
66 104	00 00\$ 9666	19 860 966 6	49 918 E66 6		%697 0	%597 0	10,000,000	Fed Home Loan Bank Discount Note	FHLB - Discount Note	NR.	91/57/70		VOL	51/10/71
86 64	00 055,999 4	70 005 666 7	£8 \$ † 9 \$66 †		%7510	%051°0	000 000 5	Fed Home Loan Bank Discount Note	FHLB - Discount Note	NE	91/57/10		V%	\$1/0E/90
£6 †85	00,000,4000.2	70.218.999.4	00.027.799.4		%06E'0	%\$15.0	000,000,2	Fed Home Loan Bank	FHLB - Note	AAA\+AA\AV	91/\$1/10	£1/\$1/L0	VIN	£1/\$1/10
(40,651 85)	\$1,845,959,948,15	00 000'000'05\$	00 000 000 005\$		%00±0		000,000,028	State of California Tsy	LAIF		91/10/10			\$1/87/71
UNREALIZED ⁽²⁾	IS/31/S012 WARKET VALUE ⁽¹⁾	CARRY VALUE	ORIGINAL	ALLC	LIEFD	СОПРОИ	AA4 hmomA	NSTITITION / ISSUER	LAGE	Rating	Maturity Date	Initial Call	Call Schedule	SELLIWI *
								C1/15/71						

17/31/12

IRVINE RANCH WATER DISTRICT

SUMMARY OF MATURITIES SUMMARY OF MATURITIES

15/31/12

% OF PORTFOLIO			%44.02	%9L'tS	%LS.TI	%9 <i>L</i> [*] E	%Lt.E
TOTALS	108'969't†7\$	100.00%	000'000'0\$\$	\$134,000,000	000°000°E†\$	977,002,6\$	SLS'96t'8\$
9£07/0£/†0	<i>\$L\$</i> '96t'8	%L7.E					<i>\$L\$</i> '967'8
	-						
107/15/71 - 11/05/01	000'000'91	%tS'9		000'000'91			
L107/0E/6 - L1/10/L0	12,000,000	%£1.9		12,000,000			
LI/0E/90-LI/I0/†0	000'000'5	%+0.2		2,000,000			
12/1/2016 - 3/31/2017	000'000'07	%/1.8		20,000,000			
13 Months - 3 Years							
SUB-TOTAL	977,002,081\$	% ₹ 9.£7	000'000'05\$	000'000'84\$	000°000°E†\$	977'007'6\$	
91/11	000'000'5	%†0.2		000°000°5			
91/01	000'000'\$	%†0.2		000,000,2			
91/60	10,000,000	%60 [.] t		10,000,000			
91/80	10,000,000	%60 ⁻ 7		10,000,000			
91/20	000'000'\$	%†0.2		000'000'5			
91/90	12,000,000	%£1.9		12,000,000			
91/\$0	18,000,000	%9E.7		18,000,000			
91/70	000,000,2	%†0.2		000'000'5			
91/80	17,200,226	%£0.7			000,000,8	977'007'6\$	
91/70	30,000,000	12.26%			30,000,000		
91/10	10,000,000	%60 [.] t		000'000'5	000'000'5		
\$1/71	000'000'05\$	%£4.02	000'000'05\$				
DATE	TATOT	%	LAIF	Agency Notes	Agency Discount Notes	Collateral Deposit	Direct Muni

Irvine Ranch Water District Summary of Real Estate 12/31/2015

	ACQUISITION DATE	PROPERTY TYPE	OWNERSHIP INTEREST	C	ORIGINAL COST	RATE OF RETURN QUARTER ENDED Dec-15
Sycamore Canyon	Dec-92	Apartments	Fee Simple	\$	43,550,810	16.64%
Wood Canyon Villas	Jun-91	Apartments	Limited Partner	\$	6,000,000	8.54%
ITC (230 Commerce)	Jul-03	Office Building	Fee Simple	\$	5,739,845	7.47%
Waterworks Business Pk.	Nov-08	Research & Dev.	Fee Simple	\$	8,630,577	5.25%
Sand Canyon Professional Center	Jul-12	Medical Office	Fee Simple	\$ \$	8,648,594 72,569,826	8.49% 12.92%

IRVINE RANCH WATER DISTRICT INVESTMENT SUMMARY REPORT INVESTMENT ACTIVITY December 2015

MATURITIES/SALES/CALLS

PURCHASES

DATE	SECURITY TYPE	PAR	YIELD	Settlement Date	Maturity Date	SECURITY TYPE	PAR	YIELD TO MATURITY
12/1/2015 12/18/2015 12/21/2015	FHLB - Note FHLB - Note FNMA - Note	\$5,000,000 \$5,000,000 \$5,000,000	0.23% 0.20% 0.24%	12/1/2015 12/3/2015 12/18/2015 12/18/2015	2/23/2016 4/30/2036 12/12/2017 12/18/2017	FHLB - Discount Note ETWD - Direct Muni FFCB - Note FHLMC - Note	\$10,000,000 \$338,685 \$5,000,000 \$6,000,000	0.27% 4.57% 1.13% 1.14%

12/31/2015

IRVINE RANCH WATER DISTRICT INTEREST RATE SWAP MONTHLY SUMMARY REPORT - DETAIL December 31, 2015

LIBOR Avg %

Prior Mo. | Current Mo. | 12-Mo Avg 0.21% 0.35% 0.20%

		Cur	rent Fisca	I Ye	ar Active Swa	ps					Cash	Flow	(Since 6/06)		Mark to	Mari	et
Effective Date	Maturity Date	Years to Maturity	Counter Party	N	otional Amt	Туре	Base Index	Fixed Rate	Prio	r Month	Current Month	Fiscal YTD	Cumulative Cash Flow	Cui	rrent Mark to Market		Notional Difference
F	ixed Payer	r Swaps - I	By Effective	ve D	ate												
6/4/2006	6/4/2019	3.4	ML	\$	20,000,000	FXP	LIBOR	6.200%	(100,052)	(102,557)	\$ (602,801)	\$ (9,257,768)	\$	16,569,517	\$	(3,430,483)
6/4/2006	6/4/2019	3.4	CG		20,000,000	FXP	LIBOR	6.200%	(100,052)	(102,557)	(602,801)	(9,257,768)		16,564,639		(3,435,361
6/17/2006	6/17/2019	3.5	CG		30,000,000	FXP	LIBOR	6.140%	(148,411)	(151,629)	(894,174)	(13,732,077)		24,864,445		(5,135,555
3/10/2007	3/10/2029	13.2	ML		30,000,000	FXP	LIBOR	5.687%	(137,143)	(140,082)	(826,223)	(12,336,031)		17,465,807		(12,534,193
3/10/2007	3/10/2029	13.2	CG		30,000,000	FXP	LIBOR	5.687%	. (137,143)	(140,082)	(826,223)	(12,336,031)		17,430,666		(12,569,334)
Totals/Weig	hted Avgs	7.9		\$	130,000,000			5.949%	\$ (622,801)	\$ (636,907)	\$ (3,752,222)	\$ (56,919,676)	\$	92,895,074	\$	(37,104,926
Total Curr	ent Year																
Active Sw	aps			\$	130,000,000				\$ (622,801)	\$ (636,907)	\$ (3,752,222)	\$ (56,919,676)	\$	92,895,074	\$	(37,104,926)

Current Fiscal Year Terminated Swaps								
Effective	Maturity	Counter			Base			
Date	Date	Party	Notional Amt	Туре	Index	Fixed Ra		

Cash Flow								
Prior	Current	Fiscal YTD	Cumulative					
Month	Month		Cash Flow					

Mark to	Market
Current Mark to	Notional
Market	Difference

Total Current Year Terminated Swaps

Current	Fiscal '	Year -	Total	Swaps

	Cas	sh Flow	
Prior	Current		Cumulative
Month	Month	Fiscal YTD	Cash Flow

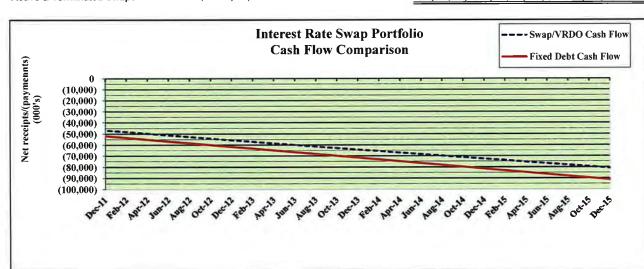
Mark to Market							
Current Mark to	Notional						
Market	Difference						

Total Current Year Active & Terminated Swaps

\$ 130,000,000

\$ (622,801) \$ (636,907) \$ (3,752,222) \$ (56,919,676) _\$

92,895,074 \$ (37,104,926)



Cash Flow Comparison Synthetic Fixed vs. Fixed Rate Debt

Cash Flow to Date

Synthetic Fixed = \$80,872,265

Fixed Rate = \$96,275,887

Assumptions:

Fixed rate debt issued at 5.10% in Jun-06, and 4.93% in Mar-07 (estimated TE rates - Bloomberg) 'Synthetic' includes swap cash flow + interest + fees to date

Exhibit "C"

MONTHLY SUMMARY OF PAYROLL ACH PAYMENTS

December 2015

ENGER DES	AMOUNT	VENDOR	PURPOSE
12/4/2015 12/24/2015	781,921.11 787,972.92 \$1,569,894.03	BANK OF AMERICA BANK OF AMERICA	ACH Payments for Payroll ACH Payments for Payroll

Exhibit "D"

>

IRWD Ledger

Void Payment Register

Report Date: 18-JAN-2016 13:51

Period From: 01-DEC-15

Page: To: 31-DEC-15 Date: Void Date

Bank: Bank of America N.A.

Include Zero Amount Payments: Yes Display Payee Address: No

Branch: Los Angeles

Account: Checking AP and PR

Bank Account Currency: USD

Payment Currency: USD (US Dollar)

ayment Number	Date	Payee Name	Site	Address	Payment Amount	Void Date
Payment Do	cument: IF	RWD CHECK				
361195 361270 361282 361344 361564 361673 362648 363183 363366	03-SEP-15 03-SEP-15 03-SEP-15 17-SEP-15 24-SEP-15 29-OCT-15 19-NOV-15 25-NOV-15	6 AKENAGA, HARUSATO 6 L & S CONSTRUCTION INC 6 MEJIA, FELIX 6 TSUCHIYAMA, ANNIE 6 GOULD, NATASHA 6 Arant, Anita E (Anita) 6 LINCOLN, CLARA M 6 LOWERY, KYMBERLI 6 ORANGE COUNTY SHERIFF'S OFF 6 FARZIN, MOHAMMAD	PAY PAY PAY PAY PAY HOME PAY PAY PAY PAY PAY PAY		382.77 32.02 15.58 7.14 10.92 377.21 35.22	30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 23-DEC-15 23-DEC-15 23-DEC-15 23-DEC-15
				Payment Document Subtotal	1,288.95	
				Bank Account Subtotal	1,288.95	
Report C	ount: 10			Report Total		Total Void

*** End of Report ***

Payment Register For 01-DEC-15 To 31-DEC-15 Report Date: 18-JAN-2016 13:51 Angeles Account: Checking AP and PR Page: 1
Payment Currency: USD (US Dollar)
Display Supplier Address: No IRWD Ledger

BANK: Bank of America N.A. Branch: Los Angeles

Bank Account Currency: USD (US Dollar)

Payment Type: All

Payment Number Seq	nuence Num Date	Supplier Name Site			Cleared Amount	Status
Payment Document						
363367	02-DEC-15	SCAP ENCINITA	S 70.00	16-DEC-15	70.00	Reconciled
363368		Akiyoshi, Eric S HOME (Eric)	44.49	03-DEC-15	44.49	Reconciled
363369	03-DEC-15	McElroy, Dorien HOME	84.68	07-DEC-15	84.68	Reconciled
363370		HELPMATES STAFFINGIRVINE SERVICES	11,701.52	09-DEC-15	11,701.52	Reconciled
363371	03-DEC-15	Murphy, Alexander J (Alexander)	858.72	07-DEC-15	858.72	Reconciled
363372	03-DEC-15	Paz, Alfonso III	35.00	08-DEC-15	35.00	Reconciled
363373	03-DEC-15	Spangenberg, Carl W (Carl)	19,85	10-DEC-15	19.85	Reconciled
363374	03-DEC-15	Kessler, Christian L (Christian)	280.00	07-DEC-15	280.00	Reconciled
363375	03-DEC-15	Compton, Christine A	132.21	23-DEC-15	132,21	Reconciled
363376	03-DEC-15	Martin, Didene J (De)	180,00	28-DEC-15	180.00	Reconciled
363377	03-DEC-15	Webb, Douglas G (Douglas)	194.40			Negotiable
363378	03-DEC-15	Lin, Eileen (Eileen)	100.32	31-DEC-15	100.32	Cleared
363379	03-DEC-15	Jackson, Gina C	107.08	07-DEC-15	107.08	Reconciled
363380	03-DEC-15	Orozco, Gustavo A (Gus)	155,99	14-DEC-15	155.99	Reconciled
363381	03-DEC-15	Broderick, Jacob	116.66	21-DEC-15	116.66	Reconciled
363382		Moeder, Jacob J (Jacob)	40.00	14-DEC-15	40.00	Reconciled
363383	03-DEC-15	Smyth, Jeffrey S (Jeff)	195.00	07-DEC-15	195.00	Reconciled
363384	03-DEC-15	Oldewage, Lars D (Lars)	2,575.20	07-DEC=15	2,575.20	Reconciled
363385	03-DEC-15	Cortez, Malcolm A (Malcolm)	96.60	14-JAN-16	96.60	Reconciled
363386	03-DEC-15	Velardes, Mattias J (Matt)	172,11	08-DEC-15	172.11	Reconciled
363387	03-DEC-15	Swan, Peer	255.35	09-DEC-15	255.35	Reconciled
363388		Fitzgerald, Robert K	58.31	16-DEC-15	58.31	Reconciled
363389	03-DEC-15	Sitzler, Roberta K (Roberta)	76.41	07-DEC-15	76.41	Reconciled
363390	03-DEC-15	Mays, Shavonne (Shavonne)	9.89	07-JAN-16	9.89	Reconciled
363391	03-DEC-15	LaMar, Steven E	102.20	07-DEC-15	102,20	Reconciled
363392		Stewart, William A (Billy)	115.00	15-DEC-15	115.00	Reconciled
IRWD Ledger		Payment Registe:	r For 01-DEC-15 To	31-DEC-15	Report Date: 18	-JAN-2016 13;5
BANK: Bank of Ame:	rica N.A. Bran Currency: USD (US	ch : Los Angeles	Account: Check		Page:	2

Payment Number	Sequence Num Date	Supplier Name	Site Payment Amount	Cleared Date	Cleared Amount	Status
	ment : IRWD CHECK					
363393	03-DEC-15	AAF INTERNATIONAL	890.81	07-DEC-15	890.81	Reconciled
363394	03-DEC-15	ADT SECURITY SERVICES INC	1.00	11-DEC-15	1.00	Reconciled
363395	03-DEC-15	AFLAC	6,800.27	08-DEC-15	6,800.27	Reconciled
363396	03-DEC-15	AFLAC	314.54	14-DEC-15	314.54	Reconciled
363397	03-DEC-15	AIRGAS, INC.	191.92	07-DEC-15	191.92	Reconciled
363398	03-DEC-15	ALKEMA SOLUTIONS	1,026.00	07-DEC-15	1,026.00	Reconciled
363399	03-DEC-15	ALL ELECTRIC NEEDS, INC	1,492.00	14-DEC-15	1,492.00	Reconciled
363400	03-DEC-15	AM CONSERVATION GROUP, INC.	634.98	07-DEC-15	634.98	Reconciled
363401	03-DEC-15	ANDERSONPENNA PARTNERS, INC	16,477.50	11-DEC-15	16,477.50	Reconciled
363402	03-DEC-15	ANTHONY N. LARSEN	400.00	07-DEC-15	400,00	Reconciled
363403	03-DEC-15	APD CONSULTANTS	20,430.00	11-DEC-15	20,430.00	Reconciled
363404	03-DEC-15		1,806.92	09-DEC-15	1,806.92	Reconciled
363405	03-DEC-15		9,852,25	07-DEC-15	9,852.25	Reconciled
363406	03-DEC-15		32,525.71	14-DEC-15	32,525.71	Reconciled
363407	03-DEC-15		291.21	07-DEC-15	291,21	Reconciled
363408	03-DEC-15		9,780.00	09-DEC-15	9,780.00	Reconciled

363409		BATTERIES PLUS AND BATTERIES PLUS		3,731.08	08-DEC-15	3,731.08	Reconciled
363410	03-DEC-15	BULBS BELLEWICK COMMUNITY		185,00	31-DEC-15	185.00	Reconciled
363411		ASSOCIATION BILL'S SWEEPING SERVICE INC		1,150.00	08-DEC-15	1,150.00	Reconciled
363412	03-DEC-15	BLACK & VEATCH		334,978.27	10-DEC-15	334,978.27	Reconciled
363413	03-DEC-15	CORPORATION BONTERRA CONSULTING LLC		1,228.75	09-DEC-15	1,228.75	Reconciled
363414	03-DEC-15	BOWIE, ARNESON,		29,557.83	14-JAN-16	29,557.83	Reconciled
363415 363416		WILES & GIANNONE BOYD & ASSOCIATES C WELLS PIPELINE		125.00 4,360.51	07-DEC-15 10-DEC-15	125.00 4,360.51	Reconciled Reconciled
363417		MATERIALS INC CALIFORNIA TRUCK		89.20	14-DEC-15	89,20	Reconciled
363418	03-DEC-15	EQUIPMENT COMPANY CANON SOLUTIONS		2,939.03	31-DEC-15	2,939.03	Cleared
IRWD Ledger BANK: Bank of America N. Bank Account Curren Payment Type: All	cy: USD (US Do	h : Los Angeles		For 01-DEC-15 To Account: Checki Payment Curre isplay Supplier Addi	ing AP and P ency: USD (JAN-2016 13;51 3
Payment Number Sequence		Supplier Name	Site	Payment Amount		Cleared Amount	Status
Payment Document : IRWI			******				-
		CAPTIVE AUDIENCE		85.32	08-DEC-15	85,32	Reconciled
363419		MARKETING INC.			07-DEC-15	926.90	Reconciled
363420 363421	03-DEC-15 03-DEC-15	CH2M HILL, INC CHARLES P CROWLEY COMPANY INC		926.90 1,139.66	15-DEC-15	1,139.66	Reconciled
363422	03-DEC-15 03-DEC-15	CHAVEZ, BRANDON		37.71 23,463.00	17-DEC-15 04-JAN-16	37.71 23,463.00	Reconciled Reconciled
363423 363424		INTERNATIONAL INC		2,052.00	11-DEC-15	2,052.00	Reconciled
363425	03-DEC-15	BREAKERS CITY OF IRVINE CITY OF NEWPORT		99,715.00 921.22	09-DEC-15 08-DEC-15	99,715.00 921.22	Reconciled Reconciled
363426 363427		BEACH COLONIAL LIFE &		1,053.48	09-DEC-15	1,053.48	Reconciled
		ACCIDENT INSURANCE					
363428	03-DEC-15	COMMERCE ENERGY INC		272.60	07-DEC-15	272.60	Reconciled
363429	03-DEC-15	COMMERCIAL DOOR OF ORANGE COUNTY,		312.80	09-DEC-15	312.80	Reconciled
363430	03-DEC-15	INC. COVARRUBIAS, TERRIE		107.72			Negotiable
363431	03-DEC-15	COX COMMUNICATIONS, INC.		3,372.03	07-DEC-15	3,372.03	Reconciled
363432 363433		CRIBBS, JEFF L D & H WATER		342,38 8,090.00	07-DEC-15	8,090.00	Negotiable Reconciled
363434	03-DEC-15	SYSTEMS INC. D R HORTON INC		300,00	11-DEC-15	300,00	Reconciled
363435 363436	03-DEC-15 03-DEC-15	DATASITE INC DDB ENGINEERING,		15,758.00 21,600.00	15-DEC-15 09-DEC-15	15,758.00 21,600.00	Reconciled Reconciled
363437	03-DEC-15	INC. DISCOUNT COURIER SERVICE		431.80	08-DEC-15	431.80	Reconciled
363438 363439		DIVE/CORR, INC DIVERSIFIED PROTECTION		1,000.00 545.00	21-DEC-15 07-DEC-15		Reconciled Reconciled
363440	03-DEC-15	SYSTEMS, INC. DMS FACILITY		16,516.93	09-DEC-15	16,516.93	Reconciled
363441		SERVICES, INC. DRAKE, KEVIN		340.98	40 pmg 15	40 702 70	Negotiable Reconciled
363442		E.J. MEYER COMPANY, INC.		40,703.79 773,371.91	10-DEC-15 09-DEC-15		Reconciled
363443	03-DEC-15	E.J. MEYER COMPANY, INC.	Pogieter	For 01-DEC-15 To		Report Date: 18-	
IRWD Ledger BANK: Bank of America N Bank Account Curre Payment Type: Al	ncy: USD (US D	ch : Los Angeles		Account: Check	ing AP and : ency: USD		
Payment Number Sequence	Num Date		Site			Cleared Amount	Status
Payment Document : IRW							
		ECO SERVICES		5,169.92	08-DEC-15	5,169.92	Reconciled
363444 363445		OPERATIONS LLC EI&C ENGINEERING		27,650.00	10-DEC-15		Reconciled
		INC ENVIRONMENTAL		12,447.50	10-DEC-15	12,447.50	Reconciled
363446	03-PEC-13	ENGINEERING AND		,		•	

		CONTRACTING, INC.	100.00		400 75	B 11 - 1
363447	03-DEC-15	ENVIRONMENTAL	423.75	08-DEC-15	423.75	Reconciled
		SCIENCE ASSOCIATES	5 A D . O.O.	08-DEC-15	547.39	Reconciled
363448	03-DEC-15	EXECUTIVE LIGHTING	547.39	08-DFC-12	547.39	Recollectied
		& ELECTRIC	259.87	08-DEC-15	259.87	Reconciled
363449	03-DEC-15			10-DEC-15	6,161.22	Reconciled
363450	03-DEC-15	FIDELITY SECURITY	6,161.22	10-DEC-15	6,101.22	Keconciled
		LIFE INSURANCE				
		COMPANY	522173	08-DEC-15	522,73	Reconciled
363451	03-DEC-15	FIRST CHOICE	322.13	00-DEC-13	322.73	Reconciled
	00 889 15	SERVICES FISHER SCIENTIFIC	4,039.39	31-DEC-15	4,039.39	Cleared
363452	03-DEC-15	COMPANY LLC	4,039,39	31-DEC-13	4,033.33	Oteurou
	00 000 15	FRANK LA PLACA	175.00	11-DEC-15	175.00	Reconciled
363453	03-DEC-15	EXTERMINATING,	173.00	II DEC 15	1,0100	110001104104
		INC.				
262454	03-DEC-15	GANAHL LUMBER CO.	1,170.98	10-DEC-15	1,170.98	Reconciled
363454 363455	03-DEC-15		7,005.29	07-DEC-15	7,005.29	Reconciled
	03-DEC-15		42,975.05	10-DEC-15	42,975,05	Reconciled
363456 363457	03-DEC-15		1,038.47		1,038.47	Reconciled
363458	03-DEC-15		2,256.55	31-DEC-15	2,256,55	Cleared
363436	03-DEC-13	COMPANY	-/			
363459	03-DEC-15	GTECH FITNESS,	888,00	23-DEC-15	888.00	Reconciled
303439	00 220 10	INC.				
363460	03-DEC-15	H2O INNOVATION USA	3,299.40	08-DEC-15	3,299.40	Reconciled
303400	00 220 20	INC				
363461	03-DEC-15	HACH COMPANY	485.60	07-DEC-15	485,60	Reconciled
363462	03-DEC-15	HAMILTON, KURT	1,515.90	08-DEC-15	1,515.90	Reconciled
363463	03-DEC-15		3,125.00	11-JAN-16	3,125.00	Reconciled
		ASSOCIATES				
		ENGINEERING INC				
363464	03-DEC-15	HARTFORD LIFE AND	132.24	07-DEC-15	132.24	Reconciled
		ACCIDENT INSURANCE				
		COMPANY				- 45 1
363465	03-DEC-15	HDR ENGINEERING	15,531.26	10-DEC-15	15,531.26	Reconciled
		INC				
363466	03-DEC-15	HELPMATES STAFFING	25,602.47	09-DEC-15	25,682.47	Reconciled
		SERVICES				D (3 4
363467	03-DEC-15		1,289,440.14	16-DEC-15	1,289,440.14	Reconciled
		TORO, LLC				TNAY 0016 10.51
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TORO, LLC

Payment Register For 01-DEC-15 To 31-DEC-15 Report Date: 18-JAN-2016 13:51

BANK: Bank of America N.A. Branch: Los Angeles Account: Checking AP and PR Page: 5

Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)

Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num Date		Site Payment Amount		Cleared Amount	Status
	ent : IRWD CHECK					
363468	03-DEC-15	HILL BROTHERS CHEMICAL COMPANY	3,944.25	08-DEC-15	3,944.25	Reconciled
363469	03-DEC-15	HOME DEPOT USA INC	169,92	08-DEC-15	169.92	Reconciled
363470	03-DEC-15		4,919.97	07-DEC-15	4,919.97	Reconciled
363471	03-DEC-15		6,426.32	07-DEC-15	6,426.32	Reconciled
363472	03-DEC-15	INDUSTRIAL METAL SUPPLY CO	185.34	07-DEC-15	185,34	Reconciled
363473	03-DEC-15	IRVINE PIPE & SUPPLY INC	2,985.57	07-DEC-15	2,985.57	Reconciled
363474	03-DEC-15	IRWD-PETTY CASH CUSTODIAN	841.58	08-DEC-15	841.58	Reconciled
363475	03-DEC-15	JACOBS PROJECT MANAGEMENT CO.	28,000.00	10-DEC-15	28,000.00	Reconciled
363476	03-DEC-15		148,91	09-DEC-15	148.91	Reconciled
363477	03-DEC-15		127,53	14-DEC-15	127,53	Reconciled
363478	03-DEC-15		194.20	10-DEC-15	194.20	Reconciled
363479		KIMBALL MIDWEST	664.26	07-DEC-15	664.26	Reconciled
363480	03-DEC-15		103,012.39	09-DEC-15	103,012.39	Reconciled
363481		KOELLER NEBEKER CARLSON & HALUCK, LLP	1,280.00	07-DEC-15	1,280.00	Reconciled
363482	03-DEC-15		324.00	07-DEC-15	324.00	Reconciled
363483	03-DEC-15		8,919.00	07-DEC-15	8,919.00	Reconciled
363484	03-DEC-15	LAGUNA BEACH COUNTY WATER DISTRICT	5,118.74	09~DEC-15	5,110.74	Reconciled
363485	03-DEC-15	LANDCARE HOLDINGS,	1,134.53	08-DEC-15	1,134.53	Reconciled
363486	03-DEC-15		323.40	08-DEC-15	323.40	Reconciled
363487	03-DEC-15	LUBRICATION ENGINEERS, INC.	756.28	07-DEC-15	756,28	Reconciled
363488	03-DEC-15	MBF CONSULTING,	19,095.26	10-DEC-15	19,095.26	Reconciled
363489	03-DEC-15	MC FADDEN-DALE INDUSTRIAL	91.04	08-DEC-15	91.04	Reconciled
363490	03-DEC-15	MC MASTER CARR SUPPLY CO	1,493.62	07-DEC-15	1,493.62	Reconciled
363491	03-DEC-15	MCR TECHNOLOGIES	7,036.46	07-DEC-15	7,036.46	Reconciled
		2210				

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Docum								
363492		03-DEC-15	MICHAEL BAKER INTERNATIONAL,		7,600.43	07-DEC-15	7,600.43	Reconciled
0.00.100		02 DEG 15	INC. MOORE, JOSHUA		83.84	23-DEC-15	83,84	Reconciled
363493			MORHAIME, MIKE		2,310,67		2,310.67	Reconciled
363494 363495			MUTUAL PROPANE		81.55			Reconciled
363496			MYERS & SONS HI- WAY SAFETY, INC.		951.48	08-DEC-15 07-DEC-15	951.48	Reconciled
363497		03-DEC-15	NATURES IMAGE INC		515.25	07-DEC-15	515,25	Reconciled
363498		03-DEC-15	NEWAGE INDUSTRIES		1,447.59	07-DEC-15		Reconciled
363499			OLIN CORPORATION		8,170,29	07-DEC-15	8,170.29	Reconciled
363500			ON ASSIGNMENT LAB SUPPORT		1,291.00	07-DEC-15	1,291.00	Reconciled
363501		03-DEC-15	ORANGE COUNTY PUBLIC AFFAIRS ASSOCIATION		45.00	21-DEC-15	45,00	Reconciled
363502		03-DEC-15	OZONIA NORTH AMERICA, LLC		1,003.13	07-DEC-15	1,003.13	Reconciled
363503		03-DEC-15	PACIFIC COAST BOLT		3,845.61	08-DEC-15	3,845.61	Reconciled
363504			PACIFIC PARTS & CONTROLS INC		338.66	07-DEC-15	338,66	Reconciled
363505			PELLETIER & ASSOCIATES, INC.		2,855.00	07-DEC-15 09-DEC-15	2,855.00 64,797.69	Reconciled Reconciled
363506			PIVOT INTERIORS INC		64,797.69 2,363.03	09-DEC-15	2,363.03	Reconciled
363507		03-DEC-15	DISTRIBUTION INC PRE-PAID LEGAL		1,296.28	08-DEC-15	1,296.28	Reconciled
363508 363509			SERVICES INC PRUDENTIAL OVERALL		5,058.09	08-DEC-15	5,058.09	Reconciled
363510			SUPPLY PTI SAND & GRAVEL		3,164.20	08-DEC-15	3,164.20	Reconciled
			INC		2,190,00	07-DEC-15	2,190.00	Reconciled
363511			PUMP CHECK		1,930.00	15-DEC-15	1,930.00	Reconciled
363512 363513			REED, JAMES D REFRIGERATION SUPPLIES DISTRIBUTOR		838.14	08-DEC-15	838.14	Reconciled
363514		03-DEC-15	ROBERT HALF INTERNATIONAL, INC.		4,077.00	07-DEC-15		Reconciled
363515		03-DEC-15	ROSEDALE - RIO BRAVO WATER STORAGE DISTRICT		262,782.84	11-DEC-15	262,782.84	Reconciled
IRWD Ledger BANK: Bank of Bank Acco Payment	America N.A. punt Currency: Type: All	Bran USD (US :	Payment ch : Los Angeles Dollar)	Register For	01-DEC-15 To Account: Check Payment Curr ay Supplier Add	31-DEC-15 ing AP and PF ency: USD (ress: No	Report Date: 18 Report Page: US Dollar)	-JAN-2016 13: 7
Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Statu
	nent : IRWD CH							
363516		03-DEC-15	ROWE, JENNY		35,35	07-DEC-15	35.35	Reconciled
363517			SADJADI, FARIAL		48.33			Negotiable
363518			SANTA ANA BLUE		210,30	09-DEC-15	210,30	
363519			PRINT SANTA MARGARITA		145.35		145.35	Reconciled
			FORD					

Payment Number	Sequence Num Date	Supplier Name	Site Payment Amount	Date	Cleared Amount	Status
	ent : IRWD CHECK	***********			**************	27222
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363516	03-DEC-15	ROWE, JENNY	35.35	07-DEC-15	35.35	Reconciled
363517	03-DEC-15	SADJADI, FARIAL	48.33			Negotiable
363518	03-DEC-15	SANTA ANA BLUE PRINT	210,30	09-DEC-15	210,30	Reconciled
363519	03-DEC-15	SANTA MARGARITA FORD	145.35	07-DEC~15	145.35	Reconciled
363520	03-DEC-15	SANTIAGO AQUEDUCT COMMISSION	8,534.18	08-DEC-15	8,534.18	Reconciled
363521	03-DEC-15	SCHINDLER ELEVATOR CORPORATION	180,14	07-DEC-15	180.14	Reconciled
363522	03-DEC-15	SEAL ANALYTICAL	434.29	08-DEC-15	434.29	Reconciled
363523	03-DEC-15	SECURTEC DISTRICT PATROL, INC.	11,467.00	23-DEC-15	11,467.00	Reconciled
363524	03-DEC-15		1,057.18	08-DEC-15	1,057.18	Reconciled
363525	03-DEC-15	SIEMENS DEMAG DELAVAL TURBOMACHINERY, INC.	814.32	14-DEC-15	814.32	Reconciled
363526	03-DEC-15	SINOCRUZ, MIKE	414.55	14-DEC-15	414.55	Reconciled
363527	03-DEC-15	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	4,013.72	14-DEC-15	4,013.72	Reconciled
363528	03-DEC-15	SOUTHERN CALIFORNIA EDISON COMPANY	338,941.28	07-DEC-15	338,941.28	Reconciled

363529		03-DEC-15	SOUTHERN CALIFORNIA SECURITY CENTER,		65.56	10-DEC-15	65.56	Reconciled
363530		03-DEC-15	INC. STANTEC CONSULTING		8,525.00	07-DEC-15	8,525.00	Reconciled
363531		03-DEC-15	SERVICES INC. STATE WATER RESOURCES CONTROL		132,713.00	07-DEC-15	132,713.00	Reconciled
363532		03-DEC-15	BOARD SUN-STAR ELECTRIC,		19,703.90	10-DEC-15	19,703.90	Reconciled
363533 363534			INC. TEKDRAULICS TEL SEC CONSULT,		34,764.68 9,950.00	09-DEC-15 08-DEC-15	34,764.68 9,950.00	Reconciled Reconciled
363535		03-DEC-15	THE IRVINE COMPANY		22,000.00	10-DEC-15	22,000.00	Reconciled
363536		03-DEC-15	LLC THYSSENKRUPP ELEVATOR		173,65	07-DEC-15	173.65	Reconciled
Bank Acco	America N.A. unt Currency: Type: All	Branc USD (US I	CORPORATION Payment th: Los Angeles		For 01-DEC-15 To Account: Checki Payment Curre splay Supplier Addr	ng AP and PI ncy: USD (R Page:	JAN-2016 13:51 8
Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Docum								******
363537	enc , inab cu		TRAFFIC CONTROL		7,500.00	24-DEC-15	7,500.00	Reconciled
363538			ENGINEERING, INC		1,334.51	08-DEC-15	1,334.51	Reconciled
363539			INC TRUCPARCO		68.09	10-DEC-15	68.09	Reconciled
363540			U.S. HEALTHWORKS MEDICAL GROUP,		260.00	31-DEC=15	260.00	Cleared
363541 363542			P.C. ULTRA SCIENTIFIC UNDERGROUND SERVICE ALERT OF SOUTHERN		300,00 759,00	11-DEC-15 08-DEC-15	300,00 759.00	Reconciled Reconciled
363543 363544			CALIFORNIA URS CORPORATION VALLEYCREST LANDSCAPE DEVELOPMENT, INC.		2,119.26 3,375.12	08-DEC-15 07-DEC-15	2,119.26 3,375.12	Reconciled Reconciled
363545 363546			VCS ENVIRONMENTAL VERIZON CALIFORNIA		5,146.25 312.89	08-DEC-15 08-DEC-15	5,146.25 312.89	Reconciled Reconciled
363547		03-DEC-15	INC VERIZON WIRELESS SERVICES LLC		5,965.72	14-DEC-15	5,965.72	Reconciled
363548		03-DEC-15	VULCAN MATERIALS COMPANY		1,163.79	31-DEC-15	1,163.79	Cleared
363549		03-DEC-15	VWR INTERNATIONAL,		2,224.94	08-DEC-15	2,224.94	Reconciled
363550		03-DEC-15	LLC WACO FILTERS CORPORATION		5,504.67	07-DEC-15	5,504.67	Reconciled
363551		03-DEC-15	WALTERS WHOLESALE		1,881.04	08-DEC-15	1,881.04	Reconciled
363552		03-DEC-15	ELECTRIC WASTE MANAGEMENT		1,830.04	07-DEC-15	1,830.04	Reconciled
363553		03-DEC-15			2,069.40	07-DEC-15	2,069.40	Reconciled
363554		03-DEC-15	ENTERPRISES, INC WEST COAST SAFETY		270.00	08-DEC-15	270.00	Reconciled
363555		03-DEC-15	SUPPLY INC WEST ENVIRONMENTAL SERVICES &	,	6,590.50	16-DEC-15	6,590.50	Reconciled
363556		03-DEC-15	TECHNOLOGY, INC. WESTAMERICA COMMUNICATIONS,		2,824.50	07-DEC-15	2,824.50	Reconciled
363557 363558		03~DEC-15 03-DEC-15	EXTERMINATOR			07-DEC-15 07-DEC-15	8,466.00 1,082.00	Reconciled Reconciled
Bank Acco	America N.A. bunt Currency: Type: All		ch : Los Angeles		For 01-DEC-15 To Account: Check Payment Curro isplay Supplier Add:	ing AP and P ency: USD (R Page:	-JAN-2016 13:51 9
Davis I	Company	Data.	Cupplier Mar-	gi+^	Paumant Amount	Cleared	Cleared Amount	Status
			Supplier Name	orre	rayment Amount			
	nent : IRWD CF		MOODBIEE GDDAFTT	.T	2 466 26	08-DEC-15	3,466.36	Reconciled
363559			WOODRUFF, SPRADLIN		3,466.36			Reconciled
363560		03-DEC-15	ENGINEERING CORPORATION	CORONA		09-DEC-15	101,853.39	
363561 363562			Velazquez, Moises Moore, Jonathon C (Jon)		145.00 200.00	09-DEC-15	200,00	Voided Reconciled

363563	10-DEC-15	Garza, Gaspar	103.35	21-DEC-15	103.35	Reconciled
363564	10-DEC-15	Cho, Harry K	255,00	14-DEC-15	255,00	Reconciled
		(Harry)				
363565	10-DEC-15	Dowling, James K	16.00	15-DEC-15	16.00	Reconciled
		Jr (James)				
363566	10-DEC-15	Bonkowski, Leslie	1,604.46	10-DEC-15	1,604.46	Reconciled
		A (Leslie)				
363567	10-DEC-15	HELPMATES STAFFINGIRVINE	7,144.09	14-DEC-15	7,144.09	Reconciled
		SERVICES	252.51	07 7711 16	250 64	Reconciled
363568		ABE, SARAH	259.64	07-JAN-16	259,64	Reconciled
363569	10-DEC-15		34,074.67	17-DEC-15	34,074.67	Reconciled
363570	10-DEC-15		1,936.50	14-DEC-15	1,936.50	
363571	10-DEC-15	AKM CONSULTING	22,660.00	16-DEC-15	22,660.00	Reconciled
		ENGINEERS, INC.			100 500 55	
363572	10-DEC-15	ALEXANDER'S	109,703.77	16-DEC-15	109,703.77	Reconciled
		CONTRACT SERVICES,				
		INC.				
363573	10-DEC-15	ALPHA TRAFFIC	520.00	15-DEC-15	520.00	Reconciled
		SERVICES, INC.				
363574		ALY, TRACY	52,29	12-JAN-16	52.29	Reconciled
363575	10-DEC-15	AMERICAN TRAINING	1,079.15	14-DEC-15	1,079.15	Reconciled
		RESOURCES, INC				- 13 1
363576		ANTHEM BLUE CROSS	2,012.80	21-DEC-15	2,012.80	Reconciled
363577		ANTHEM BLUE CROSS	1,089.40	21-DEC-15	1,089.40	Reconciled
363578		ANTHEM BLUE CROSS	415.62	21-DEC-15	415.62	Reconciled
363579		ANTHONY SUFFREDINI	1,200.00	14-DEC-15	1,200.00	Reconciled
363580	10-DEC-15	AQUA-METRIC SALES	28,796.80	17-DEC-15	28,796.80	Reconciled
		COMPANY				
363501	10-DEC-15	AT&T	50.19	15-DEC-15	50.19	Reconciled
363582	10-DEC-15	AT&T	3,669.46	15-DEC-15	3,669.46	Reconciled
363583	10-DEC-15	AUTOZONE PARTS,	887.19	15-DEC-15	887.19	Reconciled
		INC.				
363584	10-DEC-15	AVISTA	7,564.95	14-DEC-15	7,564.95	Reconciled
		TECHNOLOGIES, INC				
363585	10-DEC-15	BIOMAGIC INC	9,175.68	18-DEC-15	9,175.68	
363586	10-DEC-15	BOYD & ASSOCIATES	270,00	15-DEC-15	270.00	
363587	10-DEC-15	BRENDA HUIE	-74.96		74.96	Reconciled
363588	10-DEC-15	BRITHINEE ELECTRIC	8,214,26		8,214.26	
IRWD Ledger		Payment Register For			Report Date: 18	
BANK: Bank of America N.A.	Branc	ch : Los Angeles	Account: Check			10
Bank Account Currency		Oollar)		ency: USD (U	5 Dollar)	
Payment Type: All		Displ	ay Supplier Add	ress: No		
4 44						

Cleared Cleared Amount Status Payment Amount Date Supplier Name Payment Number Sequence Num Date Payment Document : IRWD CHECK Negotiable 30.47 363589 10-DEC-15 BRODERICK, JEREMY 10-DEC-15 15-DEC-15 338.86 Reconciled BUCCOLA LANDSCAPE 363590 SERVICES, INC. C WELLS PIPELINE 8,304.45 Reconciled 8,304.45 21-DEC-15 10-DEC-15 363591 MATERIALS INC 473.00 Reconciled 473.00 23-DEC-15 363592 10-DEC-15 CALIFORNIA DEPT OF PUBLIC HEALTH 6.089.00 Reconciled 6.089.00 363593 10-DEC-15 CALIFORNIA SPECIAL 18-DEC-15 DISTRICTS ASSOCIATION 327.53 327.53 29-DEC-15 Reconciled 363594 10-DEC-15 CARROZZA. EVANGELINE Reconciled 10-DEC-15 CHEN, HUI-PING 88.74 16-DEC-15 88.74 18,596.63 05-JAN-16 18,596.63 Reconciled CITY OF SANTA ANA 363596 10-DEC-15 363597 10-DEC-15 CIVILSOURCE, INC. 34,153.00 07-JAN-16 34,153.00 Reconciled Reconciled 363598 CO, RUFINO COATING 974.92 10-DEC-15 974.92 05-JAN-16 8,778.00 Negotiable 10-DEC-15 363599 SPECIALISTS AND INSPECTION SERVICES, INC Reconciled 3,400,00 COMMERCIAL COATING RESOURCE INC 3,400.00 21-DEC-15 363600 10-DEC-15 363601 10-DEC-15 CONTROLLED MOTION 373.21 15-DEC-15 373,21 Reconciled SOLUTIONS, INC COUNTY OF ORANGE 10-DEC-15 3,117.50 18-DEC-15 3,117.50 Reconciled 363602 363603 10-DEC-15 CR & R INCORPORATED 12,95 15-DEC-15 12.95 Reconciled 10-DEC-15 CREATIVE ALLIANCE 500.00 14-DEC-15 500.00 Reconciled 363604 GROUP LLC CROCKER & CROCKER 7,798.75 15-DEC-15 7,798.75 Reconciled 10-DEC-15 363605 10-DEC-15 D & G SIGNS 540.00 71.52 14-DEC-15 540.00 Reconciled 363606 DATAZEO, INC. DAVIS, JESSICA DEE JASPAR & ASSOCIATES, INC. 16-DEC-15 Reconciled 10-DEC-15 363607 10-DEC-15 283.64 22-DEC-15 283.64 Reconciled 363608 15-DEC-15 7,432.37 Reconciled 7,432,37 363609 10-DEC-15 75.75 75.75 Reconciled 363610 10-DEC-15 DEX MEDIA INC. 18-DEC-15 21-DEC-15 108,800.00 Reconciled 108,800.00 363611 10-DEC-15 DILYTICS INC 10-DEC-15 DMS FACILITY 200.00 15-DEC-15 200,00 Reconciled 363612 SERVICES, INC. EAGLE PRINT 4,230.13 4,230.13 Reconciled 14-DEC-15 10-DEC-15 363613 DYNAMICS 1,505.59 14-DEC-15 1,505,59 Reconciled 363614 10-DEC-15 ECOLOGY CONTROL INDUSTRIES 7,875.00 ELECTRICAL SYSTEMS ENGINEERING CO 7,875,00 15-DEC-15 Reconciled 363615 10-DEC-15 80.45 Reconciled 363616 10-DEC-15 EMNACE, KELSEY 80.45 16-DEC-15

Payment Register For 01-DEC-15 To 31-DEC-15 Report Date: 18-JAN-2016 13:51 geles Account: Checking AP and PR Page: 11 Payment Currency: USD (US Dollar)
Display Supplier Address: No IRWD Ledger

BANK: Bank of America N.A. Branch: Los Angeles
Bank Account Currency: USD (US Dollar)
Payment Type: All

	Sequence Num Date		Site Pay	ment Amount		Cleared Amount	Statu
	ent : IRWD CHECK						
363617	10-DEC-15	EMPLOYEE BENEFIT SPECIALIST, INC		1,055.00	18-DEC-15	1,055.00	Reconciled
363618	10-DEC-15	FARZIN, MOHAMMAD		26,69			Voided
363619	10-DEC-15			377.74	16-DEC-15	377.74	Reconciled
363620		FEDEX NATIONAL LTL, INC		843.23	15-DEC-15	843,23	Reconciled
363621	10-DEC-15	FIRST AMERICAN		1,700.00	14-DEC-15	1,700.00	Reconciled
363622	10-DEC-15	FIRST CHOICE SERVICES		990,88	15-DEC-15	990.88	Reconciled
363623	10-DEC-15	FISHER SCIENTIFIC COMPANY LLC		1,456.14	14-DEC-15	1,456.14	Reconciled
363624	10-DEC-15	GARCIA, REBECCA		39.73	16-DEC-15	39.73	Reconciled
363625	10-DEC-15			119,24	14-DEC-15	119.24	Reconciled
363626	10-DEC-15			2,322.20	17-DEC-15	2,322,20	Reconciled
363627	10-DEC-15	GRAINGER		950.01	14-DEC-15	950.01	Reconciled
363628		GRAYBAR ELECTRIC COMPANY		24.75	14-DEC-15	24.75	Reconciled
363629	10-DEC-15	GREAT PACIFIC EQUIPMENT INC		1,700.00	14-DEC-15	1,700.00	Reconciled
363630	10-DEC-15	HAAKER EQUIPMENT COMPANY		2,093.16	15-DEC-15	2,093.16	Reconciled
363631	10-DEC-15	HACH COMPANY		677.08	14-DEC-15	677.08	Reconciled
363632		HALCYON ELECTRIC		66,690.00	16-DEC-15	66,690.00	Reconciled
363633	10-DEC-15	HBI CONSTRUCTION		780.67	24-DEC-15	780.67	Reconciled
363634	10-DEC-15	HDPE SUPPLY		2,659.20	15-DEC-15	2,659.20	Reconciled
363635	10-DEC-15	HELPMATES STAFFING SERVICES	i	16,630.93	16-DEC-15	16,630.93	Reconciled
363636	10-DEC-15	HILL BROTHERS CHEMICAL COMPANY		9,699.00	15-DEC-15	9,699.00	Reconciled
363637	10-DEC-15	HOME DEPOT USA INC		805,11	15-DEC-15	805,11	Reconciled
363638	10-DEC-15	HONG, SEUNGHEE		87,66	14-DEC-15	87.66	Reconciled
363639	10-DEC-15	IBM CORPORATION		1,179.00	14-DEC-15	1,179.00	Reconciled
363640	10-DEC-15	IDEXX DISTRIBUTION, INC		4,205.52	14-DEC-15	4,205.52	Reconciled
363641	10-DEC-15	IRVINE COMMUNITY DEVELOPMENT COMPANY LLC	3,	,834,376.76	24-DEC-15	3,834,376.76	Reconciled
363642	10-DEC-15	IRVINE PIPE & SUPPLY INC		1,016.47	14-DEC-15	1,016.47	Reconciled
363643	10-DEC-15	IRVINE UNIFIED SCHOOL DISTRICT		1,152.48	22-DEC-15	1,152.48	Reconciled
IRWD Ledger			Register For 0:	1-DEC-15 To	31-DEC-15	Report Date: 18	
BANK: Bank of	America N.A. Bran bunt Currency: USD (US	ch : Los Angeles	Acc	count: Check	ing AP and P	R Page: US Dollar)	12

Payment Amount Date Cleared Amount Status Payment Number Sequence Num Date Supplier Name Payment Document : IRWD CHECK

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363644	10-DEC-15	IRWD-PETTY CASH	1,022.57	11-DEC-15	1,022.57	Reconciled
		CUSTODIAN		40.000.45	000 06	D 4 1 - 4
363645	10-DEC-15	JOHNSON, LISA A	220.96	18-DEC-15	220.96	Reconciled
363646	10-DEC-15	JUNG-CHE SHIH,	450.00			Negotiable
		JENNY			25.00	m 11 1
363647	10-DEC-15	KANEKO, YASUHITO	26,38	15-JAN-16	26.38	Reconciled
363648	10-DEC-15	KB HOMES	118,59	23-DEC-15	118.58	Reconciled
363649	10-DEC-15	KIM, SOON TAE	1,500.00	14-DEC-15	1,500.00	Reconciled
363650	10-DEC-15	KIMBALL MIDWEST	1,110.78	15-DEC-15	1,110.78	Reconciled
363651	10-DEC-15	KO, JENNIFER	13.02			Negotiable
363652	10-DEC-15	KONECRANES INC	4,962.00	14-DEC-15	4,962.00	Reconciled
363653	10-DEC-15	LEE, RICHARD P S	983,26	31-DEC-15	983,26	Reconciled
363654	10-DEC-15	LICHT, DAVID	103.32	17-DEC-15	103.32	Reconciled
363655	10-DEC-15	LUBRICATION	1,142.83	14-DEC-15	1,142.83	Reconciled
		ENGINEERS, INC.				
363656	10-DEC-15	MAILFINANCE INC	9,931.08	16-DEC-15	9,931.08	Reconciled
363657	10-DEC-15	MARVIN GARDENS LLC	161.64	10-DEC-15	161.64	Reconciled
363658	10-DEC-15	MBC APPLIED	1,300.00	15-DEC-15	1,300.00	Reconciled
		ENVIRONMENTAL				
		SCIENCES				
363659	10-DEC-15	MC MASTER CARR	107.74	15-DEC-15	107.74	Reconciled
00000		SUPPLY CO				
363660	10-DEC-15	MCR TECHNOLOGIES	16,962.39	16-DEC-15	16,962.39	Reconciled
303000	20 020 21	INC				
363661	10-DEC-15	MERRILL LYNCH,	17,984.11	15-DEC-15	17,984.11	Reconciled
303001	10 220 10	PIERCE, FENNER &	•			
		SMITH INCORPORATED				
363662	10-DEC-15	MOLANO, SHAYLIN	1,877,40			Negotiable
300002	10 000 10		_,			-

363663			MORAN, NELSON	103.34			Reconciled Reconciled
363664			MORGAN COMPANY		14-DEC-15		Reconciled
363665		10-DEC-15			16-DEC-15	540.25	Reconciled
262666		10-DEC-15	ELECTRONICS, INC. MUNICIPAL WATER	130,652.26			Voided
363666		10-DEC-13	DISTRICT OF ORANGE				
			COUNTY				
363667		10-DEC-15	MUNICIPAL WATER	8,131.72	14-DEC-15	8,131.72	Reconciled
			DISTRICT OF ORANGE				
			COUNTY			0.7.00	D13d
363668			MUTUAL PROPANE	27.00	15-DEC-15	27.00 1,434.68	Reconciled
363669			NATIONAL READY		14-DEC=13	1,434.00	Vecoucited
0.00070		10 DEC-15	MIXED CONCRETE CO. NATURALWELL, LLC NATURES IMAGE INC		14-DEC-15	742.50	Reconciled
363670 363671		10-DEC-15	NATURES IMAGE INC	1,249.08	15-DEC-15	1,249.08	Reconciled
363672		10-DEC-15	NAVIGANT	2,739.00	14-DEC-15	1,249.08 2,739.00	Reconciled
303012			CONSULTING. INC				
363673		10-DEC-15	NCH CORPORATION	665.09 Register For 01-DEC-15 To	15-DEC-15	665.09	Reconciled
IRWD Ledger					31-DEC-15	Report Date: 18-	JAN-2016 13:51
BANK: Bank of	America N.A.	Branc	h : Los Angeles	Account: Check	ing AP and PR	Page: 1	.3
Bank Acco	unt Currency:	USD (US I	ollar)	Payment Curre Display Supplier Add	auch: MV (A	P DOTIGE)	
Payment	Type: All			Dispiny Supplier Add.	Less, NO		
					Cleared		
Payment Number	Sequence Num	Date	Supplier Name	Site Payment Amount	Date	Cleared Amount	
Payment Docum	ent : IRWD CHE	ECK					
363674		10-DEC-15	NINYO & MOORE	550.00	14-DEC-15	550.00	Reconciled
363675		10-DEC-15	NINYO & MOORE NOVACOAST INC	4,800.00	14-DEC-15	550.00 4,800.00 6,500.00	Reconciled
363676		10-DEC-15	O'HAREN GOVERNMENT	6,500.00	17-DEC-15	6,500.00	Reconciled
			RELATIONS				
363677			OLIN CORPORATION		14-DEC-15	2,885.48	Reconciled
363678			OLIN CORPORATION		14-DEC-15	2,885.48 1,102.04 1,883.00	Reconciled Reconciled
363679		10-DEC-15	ON ASSIGNMENT LAB SUPPORT	1,883.00	14-060-13	1,003.00	Reconcided
363680		10-DEC-15	ORACLE AMERICA,	217,808.16	18-DEC-15	217,808.16	Reconciled
363660		TO DEC 13	INC.			,	
363681		10-DEC-15	ORANGE COUNTY AUTO	1,078.36	16-DEC-15	1,078.36	Reconciled
			PARTS CO				
363682		10-DEC-15	ORANGE COUNTY	236.83	05-JAN-16	236.83	Reconciled
			VECTOR CONTROL				
		10 000 15	DISTRICT	468.66	14-DEC-15	468.66	Reconciled
363683		TO-DEC-12	PACIFIC PARTS & CONTROLS INC	400.00	Td DDC_TO	400,00	,.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
363684		10-DEC-15	PACIFIC RESOURCE	2,117.40	15-DEC-15	2,117.40	Reconciled
202004		10 000 10	RECOVERY	-,	-	,	
363685		10-DEC-15	PAPER DEPOT	569.00	18-DEC-15	569,00	Reconciled
			DOCUMENT				
			DESTRUCTION LLC				D
363686			PARKS, CRYSTAL	278.52		278,52	Reconciled
363687		10-DEC-15	PARKWAY LAWNMOWER	250,06	15-DEC-15	250,06	Reconciled
0.0000		10 DEG 15	SHOP	933,65	15-DEC-15	933.65	Reconciled
363688		10-DEC-15 10-DEC-15	PAYNE & FEARS LLP	2,032.86			Reconciled
363689		10-DEC-12	DISTRIBUTION INC	2,032,00			
363690		10-DEC-15	PRODATA COMPUTER	840.00	15-DEC-15	840.00	Reconciled
00000			SERVICES INC				
363691		10-DEC-15	PSIP RED HILL, LLC			95.45	Reconciled
363692			PUBLIC STORAGE	541.64	22-DEC-15	541.64	
363693		10-DEC-15	RALPH ANDERSEN &	3,250.00			Negotiable
			ASSOCIATES	1 000 40	15 DEC 15	1 277 67	Pogongiled
363694		10-DEC-15		1,3/1.6/	19-DEC-19	1,377.67	Vecouctied
363695		10=DEC-15	ENGINEERING INC RDM GENERAL	767 92	17-DEC-15	767.92	Reconciled
303033			CONTRACTORS	707.32			

CENTER INC.

10-DEC-15 RINGCLEAR LLC

10-DEC-15 RITEWAY AUTO PAINT

& BODYWORKS

Payment Register For O1-DEC-15 To 31-DEC-15 Report Da

Branch: Los Angeles Account: Checking AP and PR Pag

USD (US Dollar)

Display Supplier Address: No Report Date: 18-JAN-2016 13:51 Page: 14 IRWD Ledger BANK: Bank of America N.A. Branch: Los Angeles
Bank Account Currency: USD (US Dollar)
Payment Type: All

14-DEC-15 31-DEC-15

14-DEC-15

122.56

692.29

3,100.00

122.56 3,100.00

92.52 1,578.68

692.29

Reconciled

Reconciled

Reconciled

Reconciled

CONTRACTORS REED, DAVID

10-DEC-15 RINCON TRUCK
CENTER INC.
10-DEC-15 RINGCLEAR LLC

10-DEC-15

RICHARD C SLADE & ASSOCIATES LLC

363696

363697

363698

363699 363700

	r Sequence Num Date ument : IRWD CHECK	Supplier Name	Site	Payment			Cleared Amount	Status
363701 363702	10-DEC-15 10-DEC-15	ROBERT F. THORPE ROBERT HALF INTERNATIONAL, INC.			40.00 50.00	11-DEC-15	1,458.00	Negotiable Reconciled
363703 363704	10-DEC-15 10-DEC-15	ROBERTS, GINGER ROCHESTER MIDLAND		_	76.27 56.28	14-DEC-15 15-DEC-15	276.27 656.28	Reconciled Reconciled
363705	10-DEC-15	CORPORATION ROCKET SOFTWARE, INC.		6,6	98.87	15-DEC-15	6,698.87	Reconciled

363706	10-DEC-15	RYLAND HOMES OF		891,32			Negotiable
303700	10 DEC 15	CALIFORNIA INC					
363707	10-DEC-15	SAFETY-KLEEN		220.50	16-DEC-15	220.50	Reconciled
		SYSTEMS, INC					
363708	10-DEC-15	SANDERS PAVING INC		288,00	08-JAN-16	16,200.00	Reconciled
363709	10-DEC-15			11.89			Negotiable
363710	10-DEC-15			820,93	15-DEC-15	820,93	Reconciled
		PRINT	2	000 47	14-DEC-15	2,232,47	Reconciled
363711	10-DEC-15	SANTA MARGARITA	21.	232.47	14-DEC-13	2,232.47	Keconcried
0.0071.0	10-DEC-15	FORD SCHACK, DEE J		31.48	15-DEC-15	31.48	Reconciled
363712	10-DEC-15	SHEA HOMES		54.78	29-DEC-15	54.78	Reconciled
363713	10-DEC-15	SHEA/BAKER RANCH		778.20	29-DEC-15	778.20	Reconciled
363714	10-DEC-13	ASSOCIATES, LLC		770.20	25 000 15	6.79	11000110111011
363715	10-DEC-15	SHEN, YUFAN		62.40			Negotiable
363716		SHERWIN WILLIAMS		904.48	15-DEC-15	904,48	Reconciled
303710	10 200 10	COMPANY					
363717	10-DEC-15	SIRIUS COMPUTER	93,	386.87	18-DEC-15	93,386.87	Reconciled
		SOLUTIONS INC					
363718	10-DEC-15	SOCAL ASSOCIATES	3,	079.50	15-DEC-15	3,079.50	Reconciled
		INVESTIGATIONS					
363719	10-DEC-15	SOFTWAREONE INC	122,	002,53	17-DEC-15	122,002.53	Reconciled
363720	10-DEC-15	SOHRABI, ARTIN		33.07	14-DEC-15	33,07	Reconciled
363721	10-DEC-15	SOUTH COAST AIR	13,	099.69	13-JAN-16	13,099.69	Reconciled
		QUALITY MANAGEMENT					
		DISTRICT					
363722	10-DEC-15	SOUTH COAST		607.37	15-DEC-15	607.37	Reconciled
		ANSWERING SERVICE					
363723	10-DEC-15	SOUTH COAST WATER		151.68	14-DEC-15	151,68	Reconciled
		CO.	0.00	105.01	14 550 15	228,125.04	Reconciled
363724	10-DEC-15	SOUTHERN	228,	125.04	14-DEC-15	228,125.04	Reconciled
		CALIFORNIA EDISON					
	10 000 15	COMPANY	2	176.32	15-DEC-15	2,176.32	Reconciled
363725	10-DEC-15	SOUTHERN COUNTIES LUBRICANTS LLC	21	170,32	13-DEC-13	2/1/0,32	Reconciled
363726	10DEC-15	SPARKLETTS		120.55	17-DEC-15	120,55	Reconciled
363727	10-DEC-15				14-DEC-15	2,547.19	
	10-DEC-12	Paymont 1	Register For 01-DEC			Report Date: 18-	
IRWD Ledger	D=				ing AP and PR		.5
BANK: Bank of America N.A.		ch : Los Angeles			ency: USD (US		
Bank Account Currency	: USD (US L	Oliar)	Display Suppl			, porrar)	
Payment Type: All			prebray Subbr	Ter Add.	1699! 140		

Cleared Payment Amount Date Cleared Amount Status Site Payment Number Sequence Num Date Supplier Name Payment Document : IRWD CHECK 363728 10-DEC-15 STANFORD COURT 73.42 22-DEC-15 73.42 Reconciled APARTMENTS 2,295.00 Reconciled 10-DEC-15 2,295.00 16-DEC-15 363729 375.00 Reconciled 14-DEC-15 363730 10-DEC-15 STERILIZER 375.00 TECHNICAL SPECIALISTS LLC 717.44 Reconciled 717.44 14-DEC-15 10-DEC-15 STEVEN ENTERPRISES 363731 916.37 916.37 14-DEC-15 Reconciled SHINNYHTLLS 363732 10-DEC-15 RESTORATION 140,376.50 17-DEC-15 140,376.50 Reconciled 363733 10-DEC-15 TEKDRAULICS Reconciled 10-DEC-15 TELLER, ROBERT 363734 11,555.00 10-DEC-15 THE FURMAN GROUP, 11,555.00 04-JAN-16 Reconciled 363735 TNC. THE GAS COMPANY 2,261.78 2,261.78 Reconciled 363736 10-DEC-15 10-DEC-15 10-DEC-15 THORDARSON, KRIS E TRAVER, LORRAINE 497.69 27.45 497.69 27.45 Reconciled 14-DEC-15 11-JAN-16 Reconciled 363738 10-DEC-15 TRIPODI, BRIAN 15-DEC-15 32.83 Reconciled 363739 14-DEC-15 4,714.62 4,714.62 Reconciled 363740 10-DEC-15 TROPICAL PLAZA NURSERY INC 2,366.48 Reconciled TRUCPARCO U.S. HEALTHWORKS 2,366.48 16-DEC-15 363741 10-DEC-15 285.00 14-DEC-15 285.00 Reconciled 10-DEC-15 363742 MEDICAL GROUP, P.C. 363743 10-DEC-15 ULTRA SCIENTIFIC 70.85 15-DEC-15 70.85 Reconciled 1,485.58 Reconciled 363744 10-DEC-15 UNITED RENTALS 1,485.58 14-DEC-15 NORTHWEST INC 478.25 15-DEC-15 478,25 Reconciled 363745 10-DEC-15 SERVICES OF CALIFORNIA INC 363746 10-DEC-15 UNITED STATES POST 27,083.33 17-DEC-15 27,083.33 Reconciled OFFICE UNITED WATER 740.88 15-DEC-15 740.88 Reconciled 10-DEC-15 363747 WORKS, INC. URS CORPORATION 78,998.49 18-DEC-15 78,998.49 Reconciled 10-DEC-15 363748 363749 US BANK NAT'L 81,631.61 21-DEC-15 81,631.61 Reconciled ASSOCIATION NORTH DAKOTA 127.11 Reconciled 18-DEC-15 127,11 363750 10-DEC-15 USA BLUEBOOK VA CONSULTING, INC 3,607.50 14-DEC-15 3,607.50 Reconciled 10-DEC-15 363751 10-DEC-15 VERIZON CALIFORNIA 38.01 17-DEC-15 38.01 Reconciled 363752 TNC 363753 10-DEC-15 VERIZON CALIFORNIA 273.59 18-DEC-15 273.59 Reconciled INC VERIZON WIRELESS 1,366.95 17-DEC-15 1,366.95 Reconciled 10-DEC-15 363754 Payment Register For 01-DEC-15 To 31-DEC-15 Report Date: 18-JAN-2016 13:51 IRWD Ledger

BANK: Bank of America N.A. Branch: Los Angeles
Bank Account Currency: USD (US Dollar)
Payment Type: All

Account: Checking AP and PR Page:
Payment Currency: USD (US Dollar)
Display Supplier Address: No

	Sequence Num Date	Supplier Name	Site	Payment Amount		Cleared Amount	Statu
Payment Documen	nt : IRWD CHECK						
363755	10-DEC-	.5 VWR INTERNATIONAL	,	1,886.27	14-DEC-15	1,886.27	Reconciled
363756	10-DEC-			7,112.50	15-DEC-15	7,112.50	Reconciled
363757	10-DEC-			5,952.46	15-DEC-15	5,952.46	Reconciled
363758	10-DEC-	CONTROLS INC 5 WASTE MANAGEMENT		2,435.83	14-DEC-15	2,435.83	Reconciled
363759	10-DEC-	OF ORANGE COUNTY .5 WATER EDUCATION		18,170.00	21-DEC-15	18,170.00	Reconciled
363760	10-DEC-	FOUNDATION 5 WATERLINE		2,510.00	14-DEC-15	2,510.00	Reconciled
363761	10-DEC-	TECHNOLOGIES INC		230.00	17-DEC-15	230,00	Reconciled
363762	10-DEC-	INC		7,432,50	23-DEC-15	7,432.50	Reconciled
303702	10-050	EXTERMINATOR		1,432,30	23 000 10	7,152.100	10001101100
363763	10-DEC-	COMPANY 5 WIRELESS		440.00	17-DEC-15	440.00	Reconciled
363764	10-DEC-	WATCHDOGS, LLC		123.50	14-DEC-15	123.50	Reconciled
363765 363766	10-DEC-	5 ZHANG, YONG 5 PERS LONG TERM	PASADENA	42.16 851.14	06-JAN-16 15-DEC-15	42.16 851,14	Reconciled Reconciled
303/00	11-060-	CARE	FASADENA	031.14	13-060-13		
363767 363768		.5 CLEARINGHOUSE .5 STATE OF	PHOENIX PO BOX	477.67 524.29	14-DEC-15 08-JAN-16	477.67 524.29	Reconciled Reconciled
		CALIFORNIA	419001	820,00		820.00	Reconciled
363769		5 IRWD EMPLOYEE ASSOCIATION	15600 SC		21-DEC-15		
363770	15-DEC-	5 JCI JONES CHEMICALS INC	CINCINNATI	4,404.40	21-DEC-15	4,404.40	Reconciled
363771	15-DEC-	.5 WESTAMERICA COMMUNICATIONS, INC.	LAKE FOREST	23,780.00	17-DEC-15	23,780.00	Reconciled
363772	15-DEC-:	5 ORANGE COUNTY SANITATION	FOUNTAIN VALLEY	567,038.86	18-DEC-15	567,038.86	Reconciled
363773	15-DEC-	DISTRICT 15 ORANGE COUNTY	PURCHASE	5,000.00	04-JAN-16	5,000.00	Reconciled
363774	17-DEC+	LAFCO ORANGE COUNTY SANITATION	FOUNTAIN VALLEY	959,089.18	23-DEC~15	959,089.18	Reconciled
863775	17-DEC-	DISTRICT SET WESTAMERICA COMMUNICATIONS,	LAKE FOREST	6,467.69	18-DEC-15	6,467.69	Reconciled
		nch : Los Angeles		200.00 r 01-DEC-15 To Account: Check Payment Curr lay Supplier Add	ing AP and Pl ency: USD (Reconciled -JAN-2016 13 17
					Cleared		
	Sequence Num Date	Supplier Name	Site	Payment Amount	Date	Cleared Amount	Stati
	nt : IRWD CHECK						3000
63777	17-DEC-	15 Bowman, Brandon		409,00	21-DEC-15	409.00	Reconciled
		(Brandon)		90.00	18-DEC-15	90,00	Reconciled
363778 363779	17-DEC- 17-DEC-	15 Gomez, Braulio 15 Wilson, Brett		195.00	21-DEC-15	195.00	Reconciled
363780		5 Clary, Cheryl L		48.00	04-JAN-16	48.00	Reconciled
63781	17-DEC-	[5 Chaney, David (Dave)		115,69	21-DEC-15	115.68	Reconciled
63782 63783		15 Paulson, David 15 Kanoff, Debbie G (Debbie)		105.00 39.68	21-DEC-15 24-DEC-15	105.00 39.68	Reconciled Reconciled
163784		15 Doyle, Earl W		152,96 280,00	24-DEC-15	152.96 280.00	Reconciled Reconciled
63785		<pre>L5 Moeder, Jacob J (Jacob)</pre>			18-DEC-15		
163786 163787		15 Hankla, Jeremy 15 Figueroa, Jorge (Jorge)		96.00 125.00	23-DEC-15 21-DEC-15	96.00 125.00	Reconciled Reconciled
363788	17-DEC-	15 Martinez, Jose A		780.29	04-JAN-16	780.29	Reconciled
363789	17-DEC-	IV (Jose) 15 Welch, Kelly A		423.00	17-DEC-15	423,00	Reconciled
303709	17-DEC-	(Kellie) 15 Bonkowski, Leslie		240.44	18-DEC-15	240.44	Reconciled
	2. 220	A (Leslie)		55.00	22-DEC-15		Reconciled
363790	17 ppg				~~-DEC-13	55.00	Vecoucited
363790 363791		15 Fehser, Noah (Noah)					
				15.75	22-DEC-15	15.75	Reconciled

363795	17-DEC-15	Gamboa, Shannon	569.78	17-DEC-15	569.78	Reconciled
363796	17-DEC-15	LaMar, Steven E	111.70	30-DEC-15	111.70	Reconciled
363797	17-DEC-15	Norman, Tammy	134.87	18-DEC-15	134.87	Reconciled
363798	17-DEC-15	Bonkowski, Thomas J (Thomas)	28.81	18-DEC-15	28.81	Reconciled
363799	17-DEC-15	Roberts, Thomas (Tom)	19.61			Negotiable
363800	17-DEC-15	Tegel, Zackariah (Zack)	W 160,50	22-DEC-15	160,50	Reconciled
363801	17-DEC-15	AAF INTERNATIONAL	1,764.02	22-DEC-15	1,764.02	Reconciled
363802	17-DEC-15	AIRGAS, INC.	729.31	21-DEC-15	729.31	Reconciled
363803	17-DEC-15	ALPHA TRAFFIC SERVICES, INC.	570.00	21-DEC-15	570.00	Reconciled
363804	17-DEC-15	ANDERSONPENNA PARTNERS, INC	14,027.50	31-DEC-15	14,027.50	Reconciled
363805	17-DEC-15	AT&T	48.66	23-DEC-15	48.66	Reconciled
363806	17-DEC-15	AT&T	5,325.92	22-DEC-15	5,325.92	Reconciled
IRWD Ledger		Payment	Register For 01-DEC-15 To	31-DEC-15	Report Date: 18-	-JAN-2016 13:51
BANK: Bank of America N.A	A. Branc	h : Los Angeles	Account: Check	ing AP and PR	Page:	18
Bank Account Currence	cy: USD (US D	ollar)	Payment Curr	ency: USD (US	Dollar)	
Payment Type: All			Display Supplier Add	ress: No		

Payment Number	Sequence Num	Date	Supplier Name	Site Payme	nt Amount	Cleared Date	Cleared Amount	Status
Payment Docum	ent : IRWD CH	ECK						
363807		17-DEC-15	ATHENS SERVICES		8,702.58	22-DEC-15	8,702.58	Reconciled
363808		17-DEC-15	ATHENS SERVICES AUTOZONE PARTS, INC.		310.49	23-DEC-15	310.49	Reconciled
363809		17-DEC-15	B & B METALS, INC.		241,92	22-DEC-15	241,92	Reconciled
363810		17-DEC-15	B & B METALS, INC. BATTERIES PLUS AND BATTERIES PLUS BULBS		972.89	22-DEC-15		Reconciled
363811			BAY AREA		601,17	21-DEC-15	601.17	Reconciled
363812		17-DEC-15	BELL TOWER FLORIST		210.14	24-DEC-15	210.14	Reconciled
363813		17-DEC-15	BEST DRILLING AND PUMP, INC.	4	3,000.00	23-DEC-15	43,000.00	Reconciled
363814		17-DEC-15	BLOOMBERG FINANCE	1	2,465.00	28-DEC-15	12,465.00	Reconciled
363815		17-DEC-15	BONTERRA CONSULTING LLC		1,399.98	23-DEC-15		Reconciled
363816		17-DEC-15	BOYD & ASSOCIATES		250.00	21-DEC-15	250.00	Reconciled
363817		17-DEC-15	CALIFORNIA BANK & TRUST	2	2,487.92	22-DEC-15	250.00 22,487.92	Reconciled
363818		17-DEC-15	CALIFORNIA BARRICADE INC		5,270.00	08-JAN-16	5,270.00	Reconciled
363819		17-DEC-15	CAMERON-COLE, LLC		3,614.75	23-DEC-15	3,614.75	Reconciled
363820		17-DEC-15	CANON FINANCIAL SERVICES, INC		1,315.46	22-DEC-15		Reconciled
363821		17-DEC-15	CARL WARREN & CO		1,528.00	21-DEC-15	1,528.00	Reconciled
363822		17-DEC-15	CARL WARREN & CO CAROLLO ENGINEERS, INC	14	0,803.79	24-DEC-15	1,528.00 140,803.79	Reconciled
363823		17-DEC-15	CDW GOVERNMENT LLC		3,182.84	24-DEC-15	3,182.84	Reconciled
363824		17-DEC-15	CHO DESIGN ASSOCIATES, INC		2,000.00	22-DEC-15	2,000.00	Reconciled
363825		17-DEC-15	CITY OF IRVINE	3	5,310.00	23-DEC-15	35,310.00	Reconciled
363826		17-DEC-15	CITY OF SANTA ANA		131.42	22-DEC-15 21-DEC-15 22-DEC-15	131.42	Reconciled
363827		17-DEC-15	CITY OF TUSTIN		949.19	21-DEC-15	949.19	Reconciled
363828		17-DEC-15	CLEAN ENERGY		1,278.80	22-DEC-15	1,278.80	Reconciled
363829		17-DEC=15	COASTLINE EQUIPMENT COMPANY		1,206.93	21-DEC-15	1,206.93	Reconciled
363830		17-DEC-15	CREATIVE ALLIANCE GROUP LLC		9,064.41	22-DEC-15	.9,064.41	Reconciled
363831		17-DEC-15	CREDENTIAL CHECK CORPORATION		407.76	23-DEC-15	407,76	Reconciled
363832		17-DEC-15	DATA CLEAN CORPORATION		526.50			Negotiable
363833		17-DEC-15	DELL MADKETING ID		4,215,44	21-DEC-15	4,215.44	Reconciled
363834			DILYTICS INC		3,998.81	21-DEC-15	3,998.81	Reconciled
363835			DIRECTV INC		110.98	23-DEC-15	4,215.44 3,998.81 110.98	Reconciled
TDED Indees			December 1		EC-15 To	31-DEC-15	Report Date: 18-	JAN-2016 13:51
BANK: Bank of Bank Acco	unt currency.	Brand USD (US I	rayment i ch : Los Angeles Dollar)	Accou Pay	nt: Checki ment Curre	ing AP and PR ency: USD (U	Page: 1	.9
Payment	Type: All			Display Sup	plier Addı	ress: No		

Cleared Payment Amount Date Payment Number Sequence Num Date Supplier Name Cleared Amount Status Payment Document : IRWD CHECK 363836 17-DEC-15 DISCOVERY SCIENCE 4,946.18 23-DEC-15 4,946.18 Reconciled CENTER
17-DEC-15 DLT SOLUTIONS LLC
17-DEC-15 DMS FACILITY 363837 13,939.19 28-DEC-15 13,939.19 Reconciled 33,033.86 33,033.86 17-DEC-15 DWS FACILITY
SERVICES, INC.
17-DEC-15 DUDEK
17-DEC-15 EAGLE PRINT
DYNAMICS
17-DEC-15 EAST ORANGE COUNTY
WATER DISTRICT 363839 1,635.00 1,635.00 Reconciled 363840 89.50 22-DEC-15 Reconciled 363841 8,730.94 29-DEC-15 8,730.94 Reconciled

363842	17-DEC-15	ELECTRICAL SYSTEMS	2,500.00	23-DEC-15	2,500.00	Reconciled
363843	17-DEC-15	ENGINEERING CO ENVIRONMENTAL	9,963.25	29-DEC-15	9,963,25	Reconciled
303043	17-DEC-15	EQUIPMENT SUPPLY, INC	9,903.23	29-DEC-13	9, 903.23	Reconciled
363844	17-DEC-15		24,650.00	23-DEC-15	24,650.00	Reconciled
363845	17-DEC-15	EXECUTIVE LIGHTING & ELECTRIC	853,11	22-DEC-15	853.11	Reconciled
363846	17-DEC-15	FARRELL & ASSOCIATES	450.00	22-DEC-15	450.00	Reconciled
363847	17-DEC-15	FEDEX	159.85	23-DEC-15	159.85	Reconciled
363848	17-DEC-15	FEDEX	204.16	22-DEC-15	204.16	Reconciled
363849	17-DEC-15	FISERV	15,364.50	23-DEC-15	15,364.50	Reconciled
363850	17-DEC-15	FISHER SCIENTIFIC COMPANY LLC	13,891.10	22-DEC-15	13,891.10	Reconciled
363851	17-DEC-15	FLEET SOLUTIONS LLC	4,431.00	21-DEC-15	4,431.00	Reconciled
363852	17-DEC-15	FOOTHILL/EASTERN TRANSPORTATION	4,650.00	24-DEC-15	4,650.00	Reconciled
363853	17-DEC-15	FULLER TRUCK ACCESSORIES	2,814.33	21-DEC-15	2,814.33	Reconciled
363854	17-DEC-15	GANAHL LUMBER CO.	384.00	24-DEC-15	384.00	Reconciled
363855	17-DEC-15	GEI CONSULTANTS INC	48,791.57	24-DEC-15	48,791.57	Reconciled
363856	17-DEC-15	GRAINGER	5,370.88	21-DEC-15	5,370.88	Reconciled
363857	17-DEC-15	GRAYBAR ELECTRIC COMPANY	5,268.93	21-DEC-15	5,268.93	Reconciled
363858	17-DEC-15	HAAKER EQUIPMENT COMPANY	1,723.38	21-DEC-15	1,723.38	Reconciled
363859	17-DEC-15	HACH COMPANY	1,046.73	22-DEC-15	1,046.73	Reconciled
363860	17-DEC-15	HACKETT PRINTING	2,096.28	23-DEC-15	2,096.28	Reconciled
363861	17-DEC-15	HARPER & ASSOCIATES ENGINEERING INC	1,500.00	11-JAN-16	1,500.00	Reconciled
IRWD Ledger		Payment Register For	01-DEC-15 To	31-DEC-15	Report Date: 18-	-JAN-2016 13:51
BANK: Bank of America N.A.	Branc	h : Los Angeles	Account: Check	ing AP and PR	Page: 2	20
B - 1 7 1 8	TION / ITO F	1 1	D	ITAD / TT	n n-11)	

IRMD Ledger Payment Register For 01-DEC-15 To 31-DEC-15 Report Date: 18-JAN-2016 13:5

BANK: Bank of America N.A. Branch: Los Angeles Account: Checking AP and PR Page: 20

Bank Account Currency: USD (US Dollar)

Payment Type: All Display Supplier Address: No

yment Number Sequence		Supplier Name Site	Payment Amount		Cleared Amount	Sta
Payment Document : IRV						
63862	17-DEC-15	HARRINGTON	807.00	21-DEC-15	807.00	Reconcile
		INDUSTRIAL				
50050	17 000 15	PLASTICS LLC	05 440 57	00 555 15	05 440 50	
63863	17-DEC-15	HARTFORD LIFE INSURANCE COMPANY	25,449.53	28-DEC-15	25,449.53	Reconcile
63864	17-DEC-15	HELPMATES STAFFING	18,747.96	23-DEC-15	18,747.96	Reconcile
620.65	17 DEC 15	SERVICES	040.00	22 DEC 15	040.00	Degenal lo
63865	17-DEC-12	HENRY PRATT COMPANY	840.00	22-DEC-15	840.00	Reconcile
63866	17-DEC-15	HERITAGE FIELDS EL	11,594.20	30-DEC-15	11,594.20	Reconcile
		TORO, LLC				
63867	17-DEC-15	HERTZ EQUIPMENT	317.62	23-DEC-15	317,62	Reconcile
52050	12 ppg 15	RENTAL CORPORATION	2 406 75	01 PPG 15	7 406 75	D
63868	17-DEC-15	HILL BROTHERS CHEMICAL COMPANY	7,486.75	21-DEC-15	7,486.75	Reconcil
63869	17_DEC_15	HOME DEPOT USA INC	147.41	24-DEC-15	147.41	Reconcil
63870	17-DEC-15		624.95	24-DEC-15	624.95	Reconcil
63871		HUNSAKER &	7,674.00	05-JAN-16	7,674.00	Reconcil
000,1	2, 220 10	ASSOCIATES IRVINE	,,	00 0121 20	,, ,, ,, ,, ,,	
63872	17-DEC-15	INDUSTRIAL METAL	320,43	21-DEC-15	320.43	Reconcil
		SUPPLY CO				
63873	17-DEC-15	INFOSYS LIMITED	160,634.20	28-DEC-15	160,634.20	Reconcil
63874	17-DEC-15	IRON MOUNTAIN	2,246.81	23-DEC-15	2,246.81	Reconcil
		INFORMATION				
		MANAGEMENT INC				
63875	17-DEC-15	IRVINE PIPE &	9,320.85	21-DEC-15	9,320.85	Reconcil
63036	17 000 15	SUPPLY INC	1 100 00	21 OPO 15	1 100 00	D 4 1
63876	1/-DEC-15	IRWD-PETTY CASH CUSTODIAN	1,102.82	21-DEC-15	1,102.82	Reconcil
63877	17-DEC-15	KLEINFELDER, INC.	68,865.58	23-DEC-15	68,865.58	Reconcil
63878		KONECRANES INC	550.00	21-DEC-15	550.00	Reconcil
63879		LANDCARE HOLDINGS,	59,546.31	24-DEC-15	59,546.31	Reconcil
	27 220 20	INC.	,	0.000	,	
63880	17-DEC-15	LCS TECHNOLOGIES,	7,020.00	05-JAN-16	7,020.00	Reconcil
		INC.				
63881	17-DEC-15	LEONARD CHAIDEZ	4,000.00	22-DEC-15	4,000.00	Reconcil
		TREE SERVICE				
63882	17-DEC-15	LEWIS OPERATING	3,050.00	23-DEC-15	3,050.00	Reconcil
		CORP				
63883	17-DEC-15	LIEBERT CASSIDY	3,245.00	22-DEC-15	3,245.00	Reconcil
63884	17 DEC 15	WHITMORE LINE-X OF SOUTH	990.00	23-DEC-15	990.00	Reconcil
03004	17-DEC-13	COAST	990.00	23-DEC-13	990.00	Reconcil
63885	17-DEC-15	LINKTURE CORP.	4,008.40	04-JAN-16	4,008.40	Reconcile
63886		LU'S LIGHTHOUSE,	2,437.13	22-DEC-15	2,437,13	Reconcile
	+9	INC.	_,		-, ,	
WD Ledger			er For 01-DEC-15 To	31-DEC-15	Report Date: 18-	-JAN-2016
ANK; Bank of America N	V.A. Branc	h : Los Angeles	Account: Check:			21
Bank Account Curre	ency: USD (US E	ollar)	Payment Curre	ency: USD (U	US Dollar)	
Payment Type: Al	11		Display Supplier Add	ress: No		

	Sequence Num Date		Site Payment Amount		Cleared Amount	Status
	ment : IRWD CHECK					
363887	17-DEC-15	MARINA LANDSCAPE MAINTENANCE, INC.	6,152.82	21-DEC-15	6,152.82	Reconciled
363888 363889		MARVIN GARDENS LLC MC FADDEN-DALE	2,593.70 119.77	17-DEC-15 22-DEC-15	2,593.70 119.77	Reconciled Reconciled
363890	17-DEC-15	INDUSTRIAL MC MASTER CARR	2,712.67	22-DEC-15	2,712.67	Reconciled
363891	17-DEC-15	SUPPLY CO MICHAEL BAKER INTERNATIONAL,	643.45	21-DEC-15	643.45	Reconciled
363892	17-DEC-15	INC. MISSION COMMUNICATIONS LLC	347.40	21-DEC-15	347.40	Reconciled
363893 363894		MR CRANE INC MSC INDUSTRIAL	2,623.50 3,609.96	29-DEC-15 24-DEC-15	2,623.50 3,609.96	Reconciled Reconciled
363895	17-DEC-15	SUPPLY CO MUNICIPAL WATER DISTRICT OF ORANGE	480.00	21-DEC-15	480.00	Reconciled
363896	17-DEC~15	COUNTY NCH CORPORATION	349.27	22-DEC-15	349.27	Reconciled
363897	17-DEC-15		13,950.00	30-DEC-15	13,950.00	Reconciled
363898	17-DEC-15	NMG GEOTECHNICAL	30,768.60	05-JAN-16	30,768.60	Reconciled
363899	17-DEC-15	INC NOVACOAST INC	525.00	21-DEC-15	525,00	Reconciled
363900	17-DEC-15	OLIN CORPORATION	14,082.43	24-DEC-15	14,082.43	Reconciled
363901	17-DEC-15	ONESOURCE DISTRIBUTORS LLC	1,685.08	21-DEC-15	1,685.08	Reconciled
363902	17-DEC-15	ORANGE COUNTY AUTO PARTS CO	331.39	21-DEC-15	331.39	Reconciled
363903	17-DEC-15	ORANGE COUNTY VECTOR CONTROL DISTRICT	2,361.75	05-JAN-16	2,361.75	Reconciled
363904	17-DEC-15	OUTSOURCE TECHNICAL LLC	49,352.00	23-DEC-15	49,352.00	Reconciled
363905	17-DEC-15	PACIFIC COAST TOOL & SUPPLY	1,914.28	21-DEC-15	1,914.28	Reconciled
363906		PACIFIC GAS AND ELECTRIC COMPANY	22,67	28-DEC-15	22,67	Reconciled
363907 363908		PARKHOUSE TIRE INC PAYNE & FEARS LLP	1,746.06 1,284.00	22-DEC-15 22-DEC-15	1,746.06 1,284.00	Reconciled Reconciled
363909		PINNACLE TOWERS	666.04	21-DEC-15	666.04	Reconciled
363910		PIVOT INTERIORS	6,905.31	21-DEC-15	6,905.31	Reconciled
363911 363912	17-DEC-15 17-DEC-15	POWER PLUS PRAXAIR DISTRIBUTION INC	8,675.00 1,758.81	22-DEC-15 22-DEC-15	8,675.00 1,758.81	Reconciled Reconciled
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			Site Payment Amount		Cleared Amount	Status
	ment : IRWD CHECK					
363913		PTI SAND & GRAVEL	1,499.54	22-DEC-15	1,499.54	Reconciled
363914		INC R & R INDUSTRIAL SERVICES, INC.	1,236.44	23-DEC-15	1,236.44	Reconciled
363915	17~DEC-15	RAINBOW DISPOSAL CO INC	325.21	23-DEC-15	325.21	Reconciled
363916	17-DEC-15		8,872.25	22-DEC-15	8,872.25	Reconciled
363917		REACH EMPLOYEE ASSISTANCE INC	907.20	28-DEC-15	907.20	Reconciled
363918		RESPONSE ENVELOPE, INC	2,721.38	04-JAN-16	2,721.38	Reconciled
363919		RINCON TRUCK CENTER INC.	162.18	21-DEC-15	162.18	Reconciled
363920		RMC WATER AND ENVIRONMENT	12,448.25	28-DEC-15	12,448.25	Reconciled
363921	17-DEC-15	ROBERT HALF INTERNATIONAL, INC.	3,375.00	21-DEC-15	3,375.00	Reconciled
363922		SANTA ANA BLUE PRINT	315.91	31-DEC-15	315,91	Cleared
363923		SANTA MARGARITA FORD	21.46	22-DEC-15	21.46	Reconciled
363924		SEAL ANALYTICAL INC	960.45	21-DEC-15	960.45	Reconciled
363925		SHAMROCK SUPPLY CO INC		21-DEC-15	787.57	Reconciled
363926		SIEMENS INDUSTRY INC	7,715.52	22-DEC-15	7,715.52	Reconciled
363927	1/-DEC-15	SIMI VALLEY LANDFILL AND	1,547.12	21-DEC-15	1,547.12	Reconciled

		RECYCLING CENTER					
363928	17-DEC-15	SOLUTIONS 4		1,019.16	24-DEC-15	1,019.16	Reconciled
363929	17~DEC-15	INDUSTRY SOUTH COAST AIR		1,161.06	29-DEC-15	1,161.06	Reconciled
		QUALITY MANAGEMENT DISTRICT	ľ				
363930	17-DEC-15	SOUTH COAST WATER		40.00	23-DEC-15	40.00	Reconciled
363931	17-DEC-15	SOUTHERN CALIFORNIA EDISON		58,160.64	21-DEC-15	58,160.64	Reconciled
363932	17-DEC-15	COMPANY SOUTHERN CALIFORNIA SECURITY CENTER,		688.27	29-DEC-15	688.27	Reconciled
IRWD Ledger BANK: Bank of America N.A. Bank Account Currency: Payment Type: All	Branc USD (US I	INC, Payment th : Los Angeles collar)	Register For Displa	01-DEC-15 To Account: Check Payment Curre y Supplier Add:	31-DEC-15 ing AP and P ency: USD (ress: No	Report Date: 18- PR Page: 2 US Dollar)	JAN-2016 13:51
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363933	17-DEC-15	SPX CORP		4,980.34	22-DEC-15	4,980.34	Reconciled
363934	17-DEC-15	STANTEC CONSULTING SERVICES INC.	3	37,971.50	28-DEC-15	37,971.50	Reconciled
363935	17-DEC-15	STATE WATER RESOURCES CONTROL BOARD		2,037.00	22-DEC-15	2,037.00	Reconciled
363936	17-DEC-15	STORED ENERGY SYSTEMS		6,314.14	22-DEC-15	6,314.14	Reconciled
363937 363938	17-DEC-15 17-DEC-15			4,195.00 220.41	22-DEC-15 23-DEC-15		Reconciled Reconciled
363939 363940		INSTRUMENTS, INC. THE GAS COMPANY TROPICAL PLAZA		3,288.88 28,518.38	04-JAN-16 23-DEC-15		Reconciled Reconciled
363941	17-DEC-15	NURSERY INC TRUCPARCO		1,047.28	23-DEC-15	1,047.28	Reconciled
363942		TUTTLE-CLICK FORD		137,581.75	23-DEC-15	,	Reconciled
363943 363944		ULTRA SCIENTIFIC UNITED PARCEL		297.75 118.61	29-DEC-15 22-DEC-15	297.75 118.61	Reconciled Reconciled
363945	17-DEC-15	SERVICE INC URBAN WATER INSTITUTE INC		1,250.00	23-DEC-15	1,250.00	Reconciled
363946 363947		URS CORPORATION USA BLUEBOOK		5,280.00 196.17	23-DEC-15 23-DEC-15		Reconciled Reconciled
363948 363949	17-DEC-15	VCS ENVIRONMENTAL VERIZON CALIFORNIA		2,107.25 50.77	21-DEC-15 23-DEC-15	2,107.25	Reconciled Reconciled
363950	17-DEC-15	INC VWR INTERNATIONAL,		152.99	22-DEC-15	152.99	Reconciled
363951	17-DEC-15	LLC WACO FILTERS		8,789.06	23-DEC-15	8,789.06	Reconciled
363952	17-DEC-15	CORPORATION WATER EDUCATION		65,00	28-DEC-15	65.00	Reconciled
363953	17-DEC-15	FOUNDATION WATEREUSE		8,624.00	22-DEC-15	8,624.00	Reconciled
363954	17-DEC-15	ASSOCIATION WATEREUSE RESEARCH	f.	6,000.00	22-DEC-15	6,000.00	Reconciled
363955	17-DEC-15	FOUNDATION WATERLINE		2,840.00	21-DEC-15	2,840.00	Reconciled
363956	17-DEC-15	TECHNOLOGIES INC WAXIE'S		628,68	22-DEC-15	628.68	Reconciled
363957	17-DEC-15	ENTERPRISES, INC WESTAMERICA		3,742.45	21-DEC-15	3,742.45	Reconciled
IRWD Ledger BANK: Bank of America N.A.	Branc	COMMUNICATIONS, INC. Payment th: Los Angeles	Register For			Report Date: 18-	
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363958	17-DEC-15	WESTERN EXTERMINATOR COMPANY		9,157.50	23-DEC-15	9,157.50	Reconciled
363959	17-DEC-15	ZEE MEDICAL SERVICE CO		1,656.32	21-DEC-15	1,656.32	Reconciled
363960	23-DEC-15	ORANGE COUNTY SANITATION	FOUNTAIN VALLEY	2,018,483.25			Voided
363961	23-DEC-15	DISTRICT Kalinsky, Arseny		150.00	23-DEC-15	150.00	Reconciled
363962	23-DEC-15	(Arseny) Compton, Christine		67,86	23-DEC-15	67.86	Reconciled
363963	23-DEC-15	A Hayden, David M		164.00	24-DEC-15	164.00	Reconciled
		(Dave)					

363964	23-DEC-15	Kanoff, Debbie G (Debbie)	207.07	24-DEC-15	207.07	Reconciled
363965	23-DEC-15	Sanchez, Fiona M (Fiona)	7,00	11-JAN-16	7.00	Reconciled
363966	23-DEC-15	Bertsch, Frederick J (Jeff)	320,83	23-DEC-15	320,83	Reconciled
363967	23-DEC-15	Pfister, Ken D (Ken)	39,42	28-DEC-15	39,42	Reconciled
363968	23-DEC-15	Oldewage, Lars D (Lars)	624.83	23-DEC-15	624.83	Reconciled
363969	23-DEC-15	Norman, Tammy	215,84	04-JAN-16	215,84	Reconciled
363970	23-DEC-15	Fournier, Tanja L (Tanja)	266.86	23-DEC-15	266.86	Reconciled
363971	23-DEC-15	Sidlin, Wayne	245,00	28-DEC-15	245.00	Reconciled
363972	23-DEC-15	4IMPRINT, INC.	1,601.72	28-DEC-15	1,601.72	Reconciled
363973	23-DEC-15	AGILENT TECHNOLOGIES, INC.	780.84	28-DEC-15	780.84	Reconciled
363974	23-DEC-15	ALPHA TRAFFIC SERVICES, INC.	570.00	05-JAN-16	570.00	Reconciled
363975	23-DEC-15	ANTHONY N. LARSEN	400.00	12-JAN-16	400.00	Reconciled
363976	23-DEC-15	ARCADIS U.S., INC.	87,539.45			Voided
363977	23~DEC-15	ARCHROCK SERVICES, L.P.	7,206.19	28-DEC-15	7,206.19	Reconciled
36397B	23-DEC-15	ARMORCAST PRODUCTS COMPANY	5,624.38			Negotiable
363979	23-DEC-15	AT&T	50.01	30-DEC-15	50.01	Reconciled
363980	23-DEC-15	AT&T	5,897.50	30-DEC-15	5,897.50	Reconciled
363981	23-DEC~15	B & H PHOTO & VIDEO	1,046.95	04-JAN-16	1,046.95	Reconciled
363982	23-DEC-15	BATTERIES PLUS AND BATTERIES PLUS BULBS	270.97	29-DEC-15	270.97	Reconciled

Payment Register For 01-DEC-15 To 31-DEC-15 Report Dageles Account: Checking AP and PR Payment Currency: USD (US Dollar) IRWD Ledger Report Date: 18-JAN-2016 13:51 Branch : Los Angeles BANK: Bank of America N.A. Page: Bank Account Currency: USD (US Dollar)

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Payment Type: All

Cleared Payment Number Sequence Num Date Supplier Name Payment Amount Date Cleared Amount Payment Document : IRWD CHECK 363983 23-DEC-15 BDC SPECIAL WASTE 207.20 29-DEC-15 207.20 Reconciled 23-DEC-15 BLACKBURN, DAVID 152.15 30-DEC-15 152.15 Reconciled BORCHARD SURVEYING & MAPPING, INC. 363985 23-DEC-15 4,755.00 05-JAN-16 4,755.00 Reconciled 363986 23-DEC-15 BRUCE NEWELL 2,632.00 28-DEC-15 2,632.00 Reconciled 363987 23-DEC-15 BURLINGTON SAFETY 1,149.00 29-DEC-15 1,149.00 Reconciled. LABORATORY OF CALIFORNIA INC
C WELLS PIPELINE 363988 23-DEC-15 22,571.84 Voided MATERIALS INC 363989 23-DEC-15 4,375.00 08-JAN-16 4,375.00 CALIFORNIA Reconciled BARRICADE INC 363990 23-DEC-15 CALIFORNIA STATE 4,200.00 08-JAN-16 4,200,00 Reconciled UNIVERSITY, FULLERTON 363991 23-DEC-15 CANON FINANCIAL 8,817.57 29-DEC-15 8,817,57 Reconciled SERVICES, INC 363992 23-DEC-15 CHEM TECH 4.877.40 14-JAN-16 4.877.40 Reconciled INTERNATIONAL INC 363993 23-DEC-15 CIVILSOURCE, INC. 13,018.00 Voided COLEMAN, JAMES Negotiable Reconciled 363994 23-DEC-15 951.46 23-DEC-15 COX 109.00 28-DEC-15 COMMUNICATIONS, INC. 363996 23-DEC-15 CREDENTIAL CHECK 597.82 28-DEC-15 597.82 Reconciled CORPORATION 363997 23-DEC-15 DATASITE INC 13,272.00 36399R DATAZEO, INC. DEE JASPAR & ASSOCIATES, INC. 3,295.00 23-DEC-15 30-DEC-15 3,295.00 Reconciled 23-DEC-15 363999 7,655.00 31-DEC-15 7,655.00 Reconciled 364000 23-DEC-15 28-DEC-15 DELL MARKETING LP 28-64 28.64 Reconciled 23-DEC-15 DEPARTMENT OF 364001 11,078.67 29-DEC-15 11,078.67 Reconciled INDUSTRIAL RELATIONS STATE OF CALIFORNIA 364002 23-DEC-15 DIRECTV INC 102.99 04-JAN-16 102.99 Reconciled 23-DEC-15 ELYASHKEVICH, 28-DEC-15 364003 138.30 138.30 Reconciled FANYA 23-DEC-15 EMERGENCY POWER 364004 1,200,00 1,200.00 14-JAN-16 Reconciled CONTROLS INC ENDRESS AND HAUSER 23-DEC-15 2,978.33 28-DEC-15 364005 2,978.33 Reconciled 364006 23-DEC-15 ENVIRONMENTAL 4,979.75 28-DEC-15 4,979.75 Reconciled SCIENCE ASSOCIATES 23-DEC-15 EXECUTIVE LIGHTING 481.88 28-DEC-15 481.88 Reconciled 6 ELECTRIC
Payment Register For 01-DEC-15 To 31-DEC-15 IRWD Ledger Report Date: 18-JAN-2016 13:51 Account: Checking AP and PR Page Payment Currency: USD (US Dollar)
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Payment Type: All

	Sequence Num Date					Cleared Amount	Statu
	ent : IRWD CHECK						
364008	_ 23-DEC-15	EEDEX		256.27	29-DEC-15	256.27	Reconciled
364009		FISHER SCIENTIFIC COMPANY LLC		2,072.81	28-DEC-15	2,072.81	Reconciled
364010	23-DEC-15	GALLADE CHEMICAL		626.40	29-DEC-15	626.40	Reconciled
364011	23-DEC-15	GE GRID SOLUTIONS, LLC		18,657.39			Voided
364012	23-DEC-15	GHD INC.		34,565.00			Voided
364013	23-DEC-15	GRAINGER		341.52	28-DEC-15	341.52	Reconciled
364014	23-DEC-15	HACH COMPANY		1,147.00	28-DEC-15	1,147.00	Reconciled
364015	23-DEC-15	HDR ENGINEERING		15,578.29			Voided
364016	23-DEC-15	HELPMATES STAFFING SERVICES		15,103.83			Voided
364017	23-DEC-15	HILL BROTHERS CHEMICAL COMPANY		4,223.20	29-DEC-15	4,223.20	Reconciled
364018	23-DEC-15	HOME DEPOT USA INC		73.25	28-DEC-15	73.25	Reconciled
364019	23-DEC-15	INDUSTRIAL METAL SUPPLY CO		44.43	28-DEC-15	44.43	Reconciled
364020	23-DEC-15	INTERNATIONAL E-Z UP, INC.		533.56	28-DEC-15	533,56	Reconciled
364021	23-DEC-15	IRVINE PIPE & SUPPLY INC		60,21	28-DEC-15	60.21	Reconciled
364022	23-DEC-15	J.L. WINGERT CO.		4,221.55	28-DEC-15	4,221,55	Reconciled
364023	23-DEC-15	KHAN, JAM		36.97	07-JAN-16	36,97	Reconciled
364024	23-DEC-15	L & S CONSTRUCTION		2,474.41			Negotiable
364025	23-DEC-15	L. G. SUPPLY COMPANY		16,535.88			Voided
364026	23-DEC-15	LAGUNA BEACH COUNTY WATER DISTRICT		4,545.27	29-DEC-15	4,545.27	Reconciled
364027	23-DEC-15	LEIBOWITZ, AMANDA		354.49	29-DEC-15	354.49	Reconciled
364028	23-DEC-15	LIM, JUSTIN		112.73	04-JAN-16	112,73	Reconciled
364029	23-DEC-15	LUBRICATION ENGINEERS, INC.		378.43	29-DEC-15	378.43	Reconciled
364030	23-DEC-15	MAIN GRAPHICS		299.25	05-JAN-16	299,25	Reconciled
364031	23-DEC-15	MARINA LANDSCAPE MAINTENANCE, INC.		12,246.14			Voided
364032	23-DEC-15	MC FADDEN-DALE INDUSTRIAL		111.12	28-DEC-15	111.12	Reconciled
364033	23-DEC-15	MC MASTER CARR SUPPLY CO		1,141.32	29-DEC-15	1,141.32	Reconciled
364034		MICHAEL BAKER INTERNATIONAL, INC.		14,669.55			Voided
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364035		23-DEC-15	MSDSONLINE, INC.		4,124.00	29-DEC-15	4,124.00	Reconciled
364036		23-DEC-15	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY		164,499.90			Voided
364037		23-DEC-15	NINYO & MOORE		6,532.50	04-JAN-16	6,532.50	Reconciled
364038		23-DEC-15	OLIN CORPORATION		11,241.35			Voided
364039		23-DEC-15	OMEGA INDUSTRIAL SUPPLY, INC.		195.14	28-DEC-15	195.14	Reconciled
364040		23-DEC-15	DISTRIBUTORS LLC		2,157.52	28-DEC-15	2,157.52	Reconciled
364041		23-DEC-15	OUTFRONT MEDIA LLC		19,148.50			Voided
364042		23-DEC-15	PACRIM ENGINEERING INC.		6,312.50	07-JAN-16	6,312.50	Reconciled
364043		23-DEC-15	PAR PHARMACEUTICAL INC		1,570.00			Negotiable
364044		23-DEC-15	PLUMBERS DEPOT		1,070.28	04-JAN-16	1,070.28	Reconciled
364045		23-DEC-15	POLLARDWATER.COM		11,466.25			Voided
364046		23-DEC-15	PYRO-COMM SYSTEMS INC		1,450.00	28-DEC-15	1,450.00	Reconciled
364047		23-DEC-15	RAM AIR ENGINEERING INC		2,266.17	29-DEC-15	2,266.17	Reconciled
364048		23-DEC-15	SADRI, ALI		508,93	31-DEC-15	508,93	Reconciled
364049		23-DEC-15	SAN DIEGO FLUID SYSTEM TECH		292.93	28-DEC-15	292.93	Reconciled
364050		23-DEC-15	SANDERS PAVING INC		6,550.00			Negotiable
364051		23-DEC-15	SANTA ANA BLUE PRINT		153.27	13-JAN-16	153,27	Reconciled
364052		23-DEC-15	SECURTEC DISTRICT PATROL, INC.		11,467.00			Voided
364053		23-DEC-15	SHAMROCK SUPPLY CO		444.22	28-DEC-15	444.22	Reconciled
364054		23-DEC-15	SITMATIC		502.75	28-DEC-15	502.75	Reconciled

364055	23-DEC-15	CALIFORNIA EDISON		87,617.65	24-DEC-15	87,617.65	Reconciled
364056 364057 364058	23-DEC-15	COMPANY SOWERBY, JENNETTE SPARKLETTS STATE BOARD OF		7.45 372.12 8,905.00	31-DEC-15 05-JAN-16 04-JAN-16	7.45 372.12 8,905.00	Reconciled Reconciled Reconciled
364059		EQUALIZATION SUPPORT PRODUCT		407.00	29-DEC-15	407.00	Reconciled
364060		SERVICES, INC THE CAPITAL GROUP		1,657.57	13-JAN-16	1,657.57	Reconciled
364061		COMPANIES THE GAS COMPANY			05-JAN-16	5,579.08	
TRWD Ledger BANK: Bank of America N.A. Bank Account Currency: Payment Type: All	Branc	Payment ch : Los Angeles		For 01-DEC-15 To	31-DEC-15 ing AP and PF ency: USD (Report Date: 18- Page: 2	JAN-2016 13:51
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		THE IRVINE COMPANY	,	15,000.00			Voided
364062		LLC			20 PBG 15	4 202 70	
364063	23-DEC-15	INDUSTRIAL SUPPLY		4,292.78		4,292.78	Reconciled
364064	23-DEC-15	TRIPAC MARKETING INC		555.54	29-DEC-15	555,54	Reconciled
364065	23-DEC-15	TROPICAL PLAZA NURSERY INC		868.78	28~DEC-15	868,78	Reconciled
364066	23-DEC-15	UNITED PARCEL SERVICE INC		105,20	28-DEC-15	105.20	Reconciled
364067	23-DEC-15	UNITED RENTALS NORTHWEST INC		8,424.86	28-DEC-15	8,424.86	Reconciled
364068	23-DEC-15	VERIZON CALIFORNIA	A	480.94	31-DEC-15	480.94	Reconciled
364069	23-DEC-15	VERTECH INDUSTRIAL		1,819.55	28-DEC-15	1,819.55	Reconciled
364070	23-DEC-15	SYSTEMS, LLC VISION TECHNOLOGY		5,811.00	08-JAN-16	5,811.00	Reconciled
364071		SOLUTIONS, LLC VU, DANNY		10.44	31-DEC-15	10.44	Reconciled
364072		VULCAN MATERIALS COMPANY		1,344.44	28-DEC-15	1,344.44	Reconciled
364073	23-DEC-15	WALTERS WHOLESALE ELECTRIC		95.29	04-JAN-16	95.29	Reconciled
364074	23-DEC-15	WATERSMART SOFTWARE, INC		17,974.42			Voided
364075	23-DEC-15			2,759.65	28-DEC-15	2,759.65	Reconciled
364076	23-DEC-15	WOODRUFF, SPRADLIN	1	1,690.00	11-JAN-16	1,690.00	Reconciled
364077	23-DEC-15	YORKE ENGINEERING		3,703.50	28-DEC-15	3,703.50	Reconciled
364078	23-DEC-15	LLC US BANK NAT'L ASSOCIATION NORTH	PO BOX 790428	123,355.60			Voided
364079	23-DEC-15	DAKOTA DIRECTV INC	LOS	12,90	04-JAN-16	12.90	Reconciled
364080	23-DEC-15	IRWD EMPLOYEE ASSOCIATION	ANGELES 15600 SC	830.00	08-JAN-16	830,00	Reconciled
364081 364082		CLEARINGHOUSE STATE OF	PHOENIX PO BOX	477.67 612.54	28-DEC-15 07-JAN-16	477.67 612.54	Reconciled Reconciled
364083	23-DEC-15	CALIFORNIA PERS LONG TERM	419001 PASADENA	771.11			Negotiable
364084	23-DEC-15	CARE JCI JONES	CINCINNAT	I 5,505.50	28-DEC-15	5,505.50	Reconciled
IRWD Ledger BANK: Bank of America N.A. Bank Account Currency: Payment Type: All		ch : Los Angeles		For 01-DEC-15 To Account: Check: Payment Curre splay Supplier Add	ing AP and PF ency: USD (
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Payment Number Sequence Num	n Date	Supplier Name	Site	Payment Amount		Cleared Amount	Status
Payment Document : IRWD CF	IECK						
364085	24-DEC-15	JCI JONES CHEMICALS INC	CINCINNAT	I 2,964.99	28-DEC-15	2,964.99	Reconciled
364086	30-DEC-15	RINCON TRUCK CENTER INC.	PURCHASE_ AY	P 530.34	04-JAN-16	530.34	Reconciled
364087	30-DEC-15	A AND Y COMPANY INC		18,077.00	06-JAN-16	18,077.00	Reconciled
364088	30-DEC-15	A STITCH ON TIME.COM		201.96	06-JAN-16	201.96	Reconciled
364089	30-DEC-15	AFLAC		314.54 6,858.62	04-JAN-16	6,858.62	Negotiable Reconciled
364090 364091	30-DEC-15 30-DEC-15	ALLIANCE		3,000.00	05-JAN-16	3,000.00	Reconciled
364092 364093		APPRAISAL, LLC ALSTON & BIRD LLP ANDERSONPENNA		7,794.37 12,920.00	04-JAN-16 08-JAN-16	7,794.37 12,920.00	Reconciled Reconciled
364094		PARTNERS, INC AUTOZONE PARTS,		76.43	04-JAN-16	76.43	Reconciled

		INC.				
364095	30-DEC-15		1,523.75	04-JAN-16	1,523.75	Reconciled
0.540.0.5	00 000 15	LLC	4 250 00	05 TRN 16	4 350 00	D
364096	30-DEC-15	BIGWIG MONSTER,	4,350.00	05-JAN-16	4,350.00	Reconciled
364097	30-DEC-15	BIOMAGIC INC	7,496.06	11-JAN-16	7,496.06	Reconciled
364098		BLACK & VEATCH	262,999.69	07-JAN-16	262,999.69	Reconciled
		CORPORATION				
364099		BRIEF, MEGAN	18.25	05-JAN-16	18,25	Reconciled
364100	30-DEC-15	CALIFORNIA BARRICADE INC	10,155.06	12-JAN-16	10,155.06	Reconciled
364101	30-DEC-15	CAVALIER, ROBERT	976.25			Negotiable
364102		CITY OF NEWPORT	1,108.65	12-JAN-16	1,108.65	Reconciled
		BEACH				
364103	30-DEC-15	COLONIAL LIFE &	1,053.48	04-JAN-16	1,053.48	Reconciled
		ACCIDENT INSURANCE				
364104	30-DEC-15	CO. COMMERCE ENERGY	150.43	04~JAN~16	150.43	Reconciled
301101	00 020 10	INC	200,10	0.1 0.21 10	200710	
364105	30-DEC-15	COMPONENTS CENTER	2,167.10	05-JAN-16	2,167.10	Reconciled
		INC				
364106	30-DEC-15	CONSOLIDATED	755.53	07-JAN-16	755.53	Reconciled
264107	30 DEC-15	CONTRACTING SERV DANGELO CO	44,893.70	06-JAN-16	44,893.70	Reconciled
364107 364108		DRAEGER SAFETY INC	1,893.01	04-JAN-16	1,893.01	Reconciled
364109	30-DEC-15		21,060,00	07-JAN-16	21,060.00	Reconciled
304109	10-PEC-13	INTERNATIONAL, INC	21,000.00	07 0711 10	21,000.00	Reconciled
364110	30-DEC-15	ENDRESS AND HAUSER	4,605.12	04-JAN-16	4,605.12	Reconciled
		INC				
364111	30-DEC-15	EVANS-HYDRO INC		07-JAN-16		Reconciled
IRWD Ledger			gister For 01-DEC-15 To			
BANK: Bank of America N.A.			Account: Check			30
Bank Account Currency:	USD (US D	ollar)	Payment Curr	ency: USD (US	S Dollar)	
Payment Type: All			Display Supplier Add:	ress: No		
				Cleared		
Payment Number Sequence Num	Date	Supplier Name S:	ite Payment Amount		Cleared Amount	Status

Payment Number			Supplier Name	Site	Payment Amount		Cleared Amount	Status
	nent : IRWD CH							
364112		30-DEC-15	EXECUTIVE LIGHTING & ELECTRIC		2,890.13	05-JAN-16	2,890.13	Reconciled
364113		30-DEC-15			435.83	04-JAN-16	435,83	Reconciled
364114			FULLER TRUCK ACCESSORIES		1,086.15	06-JAN-16	1,086.15	Reconciled
364115		30-DEC-15	GRAINGER		3,538.05	04-JAN-16	3,538.05	Reconciled
364116		30-DEC-15	GRAYBAR ELECTRIC COMPANY		1,807.51	31-DEC-15	1,807.51	Reconciled
364117		30-DEC-15	HARTFORD LIFE AND ACCIDENT INSURANCE COMPANY		132.24	04-JAN-16	132.24	Reconciled
364118		30-DEC-15	HDPE SUPPLY		743.22	05-JAN-16	743.22	Reconciled
364119			HELPMATES STAFFING SERVICES		17,300.94	06-JAN-16	17,300.94	Reconciled
364120		30-DEC-15	HYDRO-SCAPE PRODUCTS INC		105.57	04-JAN-16	105.57	Reconciled
364121		30-DEC-15	INDUSTRIAL METAL SUPPLY CO		42.12	05-JAN-16	42.12	Reconciled
364122		30-DEC-15	IRVINE PIPE & SUPPLY INC		133.66	04-JAN-16	133.66	Reconciled
364123		30-DEC-15	IRVINE VALLEY COLLEGE FOUNDATION		1,000.00	13-JAN-16	1,000.00	Reconciled
364124		30-DEC-15	JI, MINDA		225,11	04-JAN-16	225.11	Reconciled
364125		30-DEC-15	KB HOMES		53.85	15-JAN-16	53.85	Reconciled
364126		30-DEC-15	KIMBALL MIDWEST		373,42	04-JAN-16	373.42	Reconciled
364127		30-DEC-15	LINE-X OF SOUTH COAST		1,485.00	04-JAN-16	1,485.00	Reconciled
364128		30-DEC-15	MBF CONSULTING, INC.		800.00	07-JAN-16	800,00	Reconciled
364129		30-DEC-15	MC FADDEN-DALE INDUSTRIAL		215.24	05-JAN-16	215.24	Reconciled
364130		30-DEC-15	MC MASTER CARR SUPPLY CO		1,172.05	04-JAN-16	1,172.05	Reconciled
364131		30-DEC-15	MCR TECHNOLOGIES		1,701.97	04-JAN-16	1,701.97	Reconciled
364132		30-DEC-15	MOBILE MODULAR MANAGEMENT CORPORATION		972.00	05-JAN-16	972.00	Reconciled
364133		30-DEC-15	MUTUAL PROPANE		21.61	05-JAN-16	21,61	Reconciled
364134			NATIONAL READY MIXED CONCRETE CO.		2,005.24	04-JAN-16	2,005.24	Reconciled
364135			NATURES IMAGE INC		81.08	05~JAN-16	81.08	Reconciled
364136			NMG GEOTECHNICAL		1,202.00	05-JAN-16	1,202.00	Reconciled
364137		30-DEC-15	OLIN CORPORATION		2,752.80	04-JAN-16	2,752.80	Reconciled
IRWD Ledger					01-DEC-15 To		Report Date: 18-	-JAN-2016 13:5
	unt Currency:	Brand USD (US 1	ch : Los Angeles Dollar)		Payment Curr	ency: USD (Page: : JS Dollar)	31
rayment	Type: All			nisbis	ay Supplier Add	ress: NO		

Cleared Payment Amount Date

Payment Number Sequence Num Date

Supplier Name

Status

Cleared Amount

Doumant Dogument , IBMD CH	TECK						
Payment Document : IRWD CH		ORANGE COUNTY AUT	n	83.02	05-JAN-16	83,02	Reconciled
364139		PARTS CO PACIFIC COAST BOL		3,430.44	05-JAN-16	3,430.44	Reconciled
364140		CORP PAYNE & FEARS LLP		909.50	05-JAN-16	909,50	Reconciled
364141		PELLETIER & ASSOCIATES, INC.		2,125.00	04-JAN-16	2,125.00	Reconciled
364142	30-DEC-15	PINE ENVIRONMENTA SERVICES LLC	L	1,115.00	04-JAN-16	1,115.00	Reconciled
364143 364144	30-DEC-15 30-DEC-15	POLLARDWATER.COM		304.09 346.58	04-JAN-16 04-JAN-16	304.09 346.58	Reconciled Reconciled
364145		DISTRIBUTION INC		1,321.12	05-JAN-16	1,321,12	Reconciled
364146		SERVICES INC RINCON TRUCK		2,060.97	04-JAN-16	2,060.97	Reconciled
364147		CENTER INC. SANTA ANA BLUE		161,18	13-JAN-16	161.18	Reconciled
364148		PRINT SANTA MARGARITA		408.08	04-JAN-16	408.08	Reconciled
364149		FORD SEAL ANALYTICAL		797.85	04-JAN-16	797.85	Reconciled
364150	30-DEC-15	INC		111.64	04 07114 10	737.00	Negotiable
364151	30-DEC-15	AZIZOLLAH		76,285,69	31-DEC-15	76,285.69	Reconciled
304131	30-060-13	CALIFORNIA EDISON COMPANY		70,203.03	31-DEC-13	70,205.09	Reconciled
364152	30-DEC-15			160.00			Negotiable
		LABOR RELATIONS COUNCIL					
364153	30-DEC-15	SOUTHERN COUNTIES LUBRICANTS LLC		943,19	04-JAN-16	943.19	Reconciled
364154	30-DEC-15	SUNNYHILLS RESTORATION		44,775.83	30-DEC-15	44,775.83	Reconciled
364155		TEKDRAULICS		79,387.40	06-JAN-16	79,387.40	Reconciled
364156 364157		TEREX SERVICES THE NEW HOME		556.31 736.10	04-JAN-16	556,31	Reconciled Negotiable
364158	30-DEC-15	COMPANY TRI COUNTY PUMP		16,464.00	06-JAN-16	16,464.00	Reconciled
364159 364160		COMPANY TRUCPARCO TYCO INTEGRATED		2,065.25	04-JAN-16	2,065.25	Reconciled
IRWD Ledger	20-DEC-12	SECURITY, LLC	Pagister For	3,446.02 01-DEC-15 To	06-JAN-16	3,446.02 Report Date: 18	
BANK: Bank of America N.A.	Branc	h : Los Angeles		Account: Checki	ing AP and PR	Page:	32
Bank Account Currency: Payment Type: All	USD (US D	ollar)	Displ	Payment Curre ay Supplier Addı	ency: USD ()	JS Dollar)	
Bank Account Currency;	050 (05 0	Oliar)		Payment Curre ay Supplier Addı	cess: No	JS Dollar) Cleared Amount	Status
Payment Type: All	Date	Supplier Name	Site	Payment Curre	cess: No Cleared Date	os Dollar)	
Payment Number Sequence Num	Date	Supplier Name UNITED SITE SERVICES OF	Site	Payment Curre	cess: No Cleared Date	Cleared Amount	Status
Payment Number Sequence Num Payment Document: IRWD CH	Date ECK 30-DEC-15	Supplier Name UNITED SITE SERVICES OF CALIFORNIA INC UNITED WAY OF	Site	Payment Amount	cess: No Cleared Date	Cleared Amount	Status
Payment Number Sequence Num Payment Document: IRWD CH	Date ECK 30-DEC-15	Supplier Name UNITED SITE SERVICES OF CALIFORNIA INC UNITED WAY OF ORANGE COUNTY USDA FOREST	Site	Payment Curre ay Supplier Addı Payment Amount	Cleared Date	Cleared Amount	Status Reconciled
Payment Number Sequence Num Payment Document: IRWD CH 364161 364162 364163 364164	Date ECK 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15	Supplier Name UNITED SITE SERVICES OF CALIFORNIA INC UNITED WAY OF ORANGE COUNTY USDA FOREST SERVICE VRIDE INC	Site	Payment Curre ay Supplier Addi Payment Amount 152.31 609.00 266.14 12,890.00	O4-JAN-16 04-JAN-16 08-JAN-16	Cleared Amount 152.31 609.00 266.14 12,890.00	Status Reconciled Reconciled Reconciled Reconciled
Payment Type: All Payment Number Sequence Num Payment Document: IRWD CH 364161 364162 364163 364164 364165	Date ECK 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15	Supplier Name UNITED SITE SERVICES OF CALIFORNIA INC UNITED WAY OF ORANGE COUNTY USDA FOREST SERVICE VRIDE INC WR INTERNATIONAL, LLC	Site	Payment Curre ay Supplier Addi Payment Amount 152.31 609.00 266.14 12,890.00 878.49	O4-JAN-16 04-JAN-16 04-JAN-16 06-JAN-16 05-JAN-16	Cleared Amount 152.31 609.00 266.14 12,890.00 878.49	Status Reconciled Reconciled Reconciled Reconciled Reconciled
Payment Type: All Payment Number Sequence Num Payment Document: IRWD CH 364161 364162 364163 364164 364165 364166	Date ECK 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15	Supplier Name UNITED SITE SERVICES OF CALIFORNIA INC UNITED WAY OF ORANGE COUNTY USDA FOREST SERVICE VRIDE INC VWR INTERNATIONAL, LLC WALTERS WHOLESALE ELECTRIC	Site	Payment Curre ay Supplier Addi Payment Amount 152.31 609.00 266.14 12,890.00 878.49 1,655.95	O4-JAN-16 04-JAN-16 08-JAN-16 06-JAN-16	Cleared Amount 152.31 609.00 266.14 12,890.00 878.49 1,655.95	Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled
Payment Type: All Payment Number Sequence Num Payment Document: IRWD CH 364161 364162 364163 364164 364165 364166 364167	Date ECK 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15	Supplier Name UNITED SITE SERVICES OF CALIFORNIA INC UNITED WAY OF ORANGE COUNTY USDA FOREST SERVICE VRIDE INC VWR INTERNATIONAL, LLC WALTERS WHOLESALE ELECTRIC WAXIE'S ENTERPRISES, INC	Site	Payment Curre ay Supplier Addi Payment Amount 152.31 609.00 266.14 12,890.00 878.49 1,655.95 356.14	O4-JAN-16 04-JAN-16 04-JAN-16 06-JAN-16 05-JAN-16	Cleared Amount 152.31 609.00 266.14 12,890.00 878.49	Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled
Payment Type: All Payment Number Sequence Num Payment Document: IRWD CH 364161 364162 364163 364164 364165 364166	Date ECK 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15	Supplier Name UNITED SITE SERVICES OF CALIFORNIA INC UNITED WAY OF ORANGE COUNTY USDA FOREST SERVICE VRIDE INC VWR INTERNATIONAL, LLC WALTERS WHOLESALE ELECTRIC WAXIE'S ENTERPRISES, INC ORANGE COUNTY SANITATION	Site	Payment Curre ay Supplier Addi Payment Amount 152.31 609.00 266.14 12,890.00 878.49 1,655.95	O4-JAN-16 04-JAN-16 08-JAN-16 06-JAN-16	Cleared Amount 152.31 609.00 266.14 12,890.00 878.49 1,655.95	Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled
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Payment Type: All Payment Number Sequence Num Payment Document: IRWD CH 364161 364162 364163 364164 364166 364166 364167	Date ECK 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15	Supplier Name UNITED SITE SERVICES OF CALIFORNIA INC UNITED WAY OF ORANGE COUNTY USDA FOREST SERVICE VRIDE INC VWR INTERNATIONAL, LLC WALTERS WHOLESALE ELECTRIC WAXIE'S ENTERPRISES, INC ORANGE COUNTY SANITATION	Site FOUNTAIN VALLEY	Payment Curre ay Supplier Addi Payment Amount 152.31 609.00 266.14 12,890.00 878.49 1,655.95 356.14	O4-JAN-16 04-JAN-16 08-JAN-16 06-JAN-16 04-JAN-16	Cleared Amount 152.31 609.00 266.14 12,890.00 878.49 1,655.95	Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled
Payment Type: All Payment Number Sequence Num Payment Document: IRWD CH 364161 364162 364163 364164 364166 364166 364167	Date ECK 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15	Supplier Name UNITED SITE SERVICES OF CALIFORNIA INC UNITED WAY OF ORANGE COUNTY USDA FOREST SERVICE VRIDE INC VWR INTERNATIONAL, LLC WALTERS WHOLESALE ELECTRIC WAXIE'S ENTERPRISES, INC ORANGE COUNTY SANITATION DISTRICT	Site FOUNTAIN VALLEY	Payment Curre ay Supplier Addi Payment Amount 152.31 609.00 266.14 12,890.00 878.49 1,655.95 356.14 601.05	O4-JAN-16 04-JAN-16 08-JAN-16 06-JAN-16 04-JAN-16	Cleared Amount 152.31 609.00 266.14 12,890.00 878.49 1,655.95 356.14	Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled
Payment Type: All Payment Number Sequence Num Payment Document: IRWD CH 364161 364162 364163 364164 364165 364166 364167 364168	Date ECK 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15	Supplier Name UNITED SITE SERVICES OF CALIFORNIA INC UNITED WAY OF ORANGE COUNTY USDA FOREST SERVICE VRIDE INC VWR INTERNATIONAL, LLC WALTERS WHOLESALE ELECTRIC WAXIE'S ENTERPRISES, INC ORANGE COUNTY SANITATION DISTRICT ment Subtotal: YORK INSURANCE SERVICES GROUP INC	Site FOUNTAIN VALLEY	Payment Curre ay Supplier Addi Payment Amount 152.31 609.00 266.14 12,890.00 878.49 1,655.95 356.14 601.05	O4-JAN-16 04-JAN-16 08-JAN-16 06-JAN-16 04-JAN-16	Cleared Amount 152.31 609.00 266.14 12,890.00 878.49 1,655.95 356.14	Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled
Payment Type: All Payment Number Sequence Num Payment Document: IRWD CH 364161 364162 364163 364164 364165 364166 364167 364168	Date ECK 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15	Supplier Name UNITED SITE SERVICES OF CALIFORNIA INC UNITED WAY OF ORANGE COUNTY USDA FOREST SERVICE VRIDE INC VWR INTERNATIONAL, LLC WALTERS WHOLESALE ELECTRIC WAXIE'S ENTERPRISES, INC ORANGE COUNTY SANITATION DISTRICT ment Subtotal: YORK INSURANCE SERVICES GROUP INC - CA	FOUNTAIN VALLEY PAY SACRAMENTO	Payment Curre ay Supplier Addi Payment Amount 152.31 609.00 266.14 12,890.00 878.49 1,655.95 356.14 601.05	O4-JAN-16 04-JAN-16 08-JAN-16 06-JAN-16 04-JAN-16	Cleared Amount 152.31 609.00 266.14 12,890.00 878.49 1,655.95 356.14	Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled
Payment Type: All Payment Number Sequence Num Payment Document: IRWD CH 364161 364162 364163 364164 364165 364166 364167 364168 Payment Document: IRWD Wi 11284	Date ECK 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 00-DEC-15 00-DEC-15	Supplier Name UNITED SITE SERVICES OF CALIFORNIA INC UNITED WAY OF ORANGE COUNTY USDA FOREST SERVICE VWRIDE INC VWR INTERNATIONAL, LLC WALTERS WHOLESALE ELECTRIC WAXIE'S ENTERPRISES, INC ORANGE COUNTY SANITATION DISTRICT Ment Subtotal: YORK INSURANCE SERVICES GROUP INC - CA CALPERS EMPLOYEE BENEFIT	FOUNTAIN VALLEY PAY SACRAMENTO 1	Payment Curre, ay Supplier Addi Payment Amount 152.31 609.00 266.14 12,890.00 878.49 1,655.95 356.14 601.05	O4-JAN-16 04-JAN-16 08-JAN-16 06-JAN-16 04-JAN-16	Cleared Amount 152.31 609.00 266.14 12,890.00 878.49 1,655.95 356.14	Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled Negotiable
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Payment Type: All Payment Number Sequence Num Payment Document: IRWD CH 364161 364162 364163 364164 364165 364166 364167 364168 P Payment Document: IRWD Wi 11284 11285 11286	Date ECK 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 40-DEC-15 07-DEC-15 04-DEC-15	Supplier Name UNITED SITE SERVICES OF CALIFORNIA INC UNITED WAY OF ORANGE COUNTY USDA FOREST SERVICE VWR INTERNATIONAL, LLC UNITED WAY WALTERS WHOLESALE ELECTRIC WAXIE'S ENTERPRISES, INC ORANGE COUNTY SANITATION DISTRICT ment Subtotal: YORK INSURANCE SERVICES GROUP INC - CA CALPERS EMPLOYEE BENEFIT SPECIALIST, INC PCL CONSTRUCTION, INC. PCL CONSTRUCTION, INC.	FOUNTAIN VALLEY PAY SACRAMENTO 1 PAY 6971821722 ESR	Payment Curre ay Supplier Addi Payment Amount 152.31 609.00 266.14 12,890.00 878.49 1,655.95 356.14 601.05	O4-JAN-16 04-JAN-16 08-JAN-16 06-JAN-16 04-JAN-16	Cleared Amount 152.31 609.00 266.14 12,890.00 878.49 1,655.95 356.14	Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled Negotiable Negotiable Negotiable
Payment Type: All Payment Number Sequence Num Payment Document: IRWD CH 364161 364162 364163 364164 364165 364166 364167 364168 P Payment Document: IRWD Wi 11284 11285 11286 11287 11288 11289	Date ECK 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 30-DEC-15 11-DEC-15 11-DEC-15 11-DEC-15	Supplier Name UNITED SITE SERVICES OF CALIFORNIA INC UNITED WAY OF ORANGE COUNTY USDA FOREST SERVICE VWRIDE INC VWR INTERNATIONAL, LLC WALTERS WHOLESALE ELECTRIC WAXIE'S ENTERPRISES, INC ORANGE COUNTY SANITATION DISTRICT Ment Subtotal: YORK INSURANCE SERVICES GROUP INC - CA CALPERS EMPLOYEE BENEFIT SPECIALIST, INC PCL CONSTRUCTION, INC. CALPERS	FOUNTAIN VALLEY PAY SACRAMENTO 1 PAY ACCT 6971821722 ESR 141511.1 SACRAMENTO	Payment Amount 152.31 609.00 266.14 12,890.00 878.49 1,655.95 356.14 601.05 16,872,016.07 17,397.75 374,751.58 7,377.64 2,345,256.90 260,584.10 85,371.05	O4-JAN-16 04-JAN-16 08-JAN-16 06-JAN-16 04-JAN-16	Cleared Amount 152.31 609.00 266.14 12,890.00 878.49 1,655.95 356.14	Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled Negotiable Negotiable Negotiable Negotiable Negotiable Negotiable
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		BOARD					
11292	14-DEC-15	EMPLOYMENT DEVELOPMENT DEPARTMENT	W SACRAMENTO	7,017.14			Negotiable
11293	14-DEC-15	ORDONEZ, CYNTHIA MARIE	DESERT HOT SPR	500.77			Negotiable
IRWD Ledger BANK: Bank of Americ	a N A Brand	Payment	Register For	01-DEC-15 To Account; Check			JAN-2016 13:51
Bank Account Cu Payment Type:	ırrency: USD (US I	Dollar)			ency: USD	(US Dollar)	. •
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Payment Number Seque	ence Num Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document :		************					*****
11294		CALIFORNIA	SACRAMENTO	2,074.26			Negotiable
11251	14 000 10	DEPARTMENT OF CHILD SUPPORT SERVICES	or for a rate of	2,077,20			nogoczaszo
11295	14-DEC-15	EMPLOYEE BENEFIT SPECIALIST, INC	PAY	10,468.91			Negotiable
11296	14-DEC-15	GREAT-WEST LIFE & ANNUITY INSURANCE COMPANY		93,469.22			Negotiable
11297	14-DEC-15	BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	2,812.60			Negotiable
11298	14-DEC-15	SUMITOMO MITSUI BANKING CORPORATION	NEW YORK	116.71			Negotiable
11299	14-DEC-15	U.S. BANK NATIONA ASSOCIATION	LPAY	534,30			Negotiable
11300	14-DEC-15	BANK OF AMERICA	SAN FRANCISCO	534.30			Negotiable
11301	14-DEC-15	MERRILL LYNCH CAPITAL SERVICES, INC	CHARLOTTE	600,489.50			Negotiable
11302	14-DEC-15	CITIGROUP GLOBAL MARKETS INC.	NEW YORK	600,489.15			Negotiable
11303	14-DEC-15	SUMITOMO MITSUI BANKING CORPORATION	NEW YORK	431,51			Negotiable
11304	14-DEC-15	U.S. BANK NATIONA	LPAY	284.38			Negotiable
11305	15-DEC-15	ASSOCIATION YORK INSURANCE SERVICES GROUP IN - CA	PAY	8,386.34			Negotiable
11306	16-DEC-15	YORK INSURANCE SERVICES GROUP IN - CA	PAY C	10,013.15			Negotiable
11307	17-DEC-15	FILANC-BALFOUR BEATTY JV	ACT 4427724347	6,267,194.67			Negotiable
11308	17-DEC-15	FILANC-BALFOUR BEATTY JV	ESR 211084000	546,371.40			Negotiable
11309 11310	18-DEC-15		SACRAMENTO	88,482.22 620,428.05			Negotiable Negotiable
11010	10 DEC 13	DISTRICT OF ORANG		020,420.00			Negociabic
11311	18-DEC-15	CITIGROUP GLOBAL MARKETS INC.	NEW YORK	891,264.02			Negotiable
IRWD Ledger BANK: Bank of Americ	ca N.A. Branc	Payment ch : Los Angeles		O1-DEC-15 To Account; Check			JAN-2016 13:51
Bank Account Cu Payment Type	irrency: USD (US I			Payment Curre ay Supplier Add:		(US Dollar)	
Payment Number Seque	ence Num Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document :					*****		
11312		U.S. BANK NATIONA	LST. LOUIS	9,030.35			Negotiable
11313		ASSOCIATION BANK OF NEW YORK		683.33			Negotiable
		MELLON TRUST COMPANY NA					,
11314	22-DEC-15	YORK INSURANCE SERVICES GROUP IN - CA	PAY C	7,243.05			Negotiable
11315	28-DEC-15	INTERNAL REVENUE SERVICE	FRESNO	174,093.14			Negotiable
11316	28-DEC-15	FRANCHISE TAX BOARD	SACRAMENTO	46,153.65			Negotiable
11317	28-DEC-15	EMPLOYMENT DEVELOPMENT DEPARTMENT	W SACRAMENTO	6,541.00			Negotiable
11318	28-DEC-15	ORDONEZ, CYNTHIA MARIE	DESERT HOT SPR	500.77			Negotiable
11319	28-DEC-15	CALIFORNIA DEPARTMENT OF CHILD SUPPORT	SACRAMENTO	2,192.89			Negotiable
11320	28-DEC-15	SERVICES EMPLOYEE BENEFIT	PAY	10,854.82			Negotiable

		SPECIALIST, INC					
11321	28-DEC-15	GREAT-WEST LIFE ANNUITY INSURANCE		92,548.58		Ne	egotiable
11322	29-DEC-15	COMPANY YORK INSURANCE SERVICES GROUP I	PAY	5,912.90		Ne	egotiable
11323	30-DEC-15	- CA FILANC-BALFOUR BEATTY JV	ACT 4427724347	3,203,729.77		Ne	egotiable
11324	30-DEC-15	FILANC-BALFOUR BEATTY JV	ESR 211084000	355,969.97		Ne	egotiable
11325	30-DEC-15		SACRAMENTO	85,414.00		Ne	egotiable
	Payment Docu	ment Subtotal:		17,062,999.08			
		unt Subtotal :	******	33,935,015.15	1 ********	4,045,418.77	
Report Cour			33,935,015.15				
IRWD Ledger BANK: Bank Account (Payment Type	Branc Currency: ()		t Register For		ey: ()	port Date: 18-JAN Page: 35	-2016 13:51
Payment Number Sequ	uence Num Date	Supplier Name	Site	C1 Payment Amount Da		eared Amount	Status

*** End of Report ***

\$ 33,935,015.15 Disbursements <1,288.95> Voids \$ 33,933,726.20 Total Voids and Disbursements

Exhibit "E"

IRWD Gov Code 53065.5 Disclosure Report

Payment or Reimbursements for Individual charges of \$100 or more per transaction for services or product received, 01-DEC-15 to 31-DEC-15

NAME	CHECK NUMBER	CHECK DATE	TRANSACTION	ITEM DESCRIPTION	EXPENSE JUSTIFICATION
Bertsch, Jeff	363966	23-Dec-15		Other(Misc)	Meeting supplies
Bonkowski, Leslie	363566	10-Dec-15		Other(Misc)	Meeting supplies
Bonkowski, Leslie	363790	17-Dec-15		Other(Misc)	Meeting supplies
Bowman, Brandon	363777	17-Dec-15		Membership/Certification	CWEA membership renewal fee
Bowman, Brandon	363777	17-Dec-15		Membership/Certification	Collections Grade certification
Broderick, Jacob	363381	3-Dec-15		Other(Misc)	Safety shoes allowance
Chaney, Dave	363781	17-Dec-15		Membership/Certification	Waste Water Operator Grade III certificate renewal
Cho. Harry	363564	10-Dec-15		Membership/Certification	AWWA membership renewal
Doyle, Earl W	363784	17-Dec-15		Registration Fees	AWWA T3 and T4 certificate renewal
Fournier, Tania	363970	23-Dec-15		Other(Misc)	Meeting supplies
Gallegos, Adriel	363776	17-Dec-15		Other(Misc)	Safety shoes allowance
Sarza, Gaspar	363563	10-Dec-15		Other(Misc)	Meeting supplies
Havden, Dave	363963	23-Dec-15		Membership/Certification	CWEA membership renewal fee
lackson, Gina	363379	3-Dec-15		Other(Misc)	Meeting supplies
Kalinsky, Arseny	363961	23-Dec-15		Membership/Certification	
Kanoff, Debbie	363964	23-Dec-15 23-Dec-15		Other(Misc)	AMTA membership renewal fee
Kessler, Christian	363374	3-Dec-15		Membership/Certification	Meeting supplies
Martin, Didene	363376	3-Dec-15			ASCE membership renewal fee
Moeder, Jacob	363785	17-Dec-15		Other(Misc) Membership/Certification	Safety shoes allowance
Moore, Jacob Moore, Jonathon	363562	3-Dec-15			ASCE membership renewal fee
Murphy, Alex	363371	3-Dec-15		Membership/Certification Other(Misc)	Water Distribution Operatior Grade D4 certification
Murphy, Alex	363371	3-Dec-15			Membership renewal fee
Murphy, Alex	363371	3-Dec-15		Lodging	ASCE Pumping Systems Design Seminar Scottsdale, AZ 11/11-13/2015
Norman, Tammy	363797	17-Dec-15		Lodging	ASCE Pumping Systems Design Seminar Scottsdale, AZ 11/11-13/2015
Norman, Tammy	363969			Other(Misc)	Meeting supplies
Oldewage, Lars		23-Dec-15		Other(Misc)	Meeting supplies
Oldewage, Lars	363384 363384	3-Dec-15		Registration Fees	AWWA 2015 Water Quality Technology Conf., Salt Lake City, UT 11/15-18/2015
Oldewage, Lars		3-Dec-15	311.00		AWWA 2015 Water Quality Technology Conf., Salt Lake City, UT 11/15-18/2015
	363384	3-Dec-15		Lodging	AWWA 2015 Water Quality Technology Conf., Salt Lake City, UT 11/15-18/2015
Oldewage, Lars	363384	3-Dec-15		Lodging	AWWA 2015 Water Quality Technology Conf., Salt Lake City, UT 11/15-18/2015
Oldewage, Lars Oldewage, Lars	363384	3-Dec-15		Lodging	AWWA 2015 Water Quality Technology Conf., Salt Lake City, UT 11/15-18/2015
Oldewage, Lars	363384	3-Dec-15		Lodging	AWWA 2015 Water Quality Technology Conf., Salt Lake City, UT 11/15-18/2015
	363968	23-Dec-15		Membership/Certification	CWEA membership and certificate renewal fee
Oldewage, Lars	363968	23-Dec-15		Mileage	ACWA Water Quality Committee meeting, Indian Wells, CA 12/01/2015
Oldewage, Lars Orozco, Gus	363968	23-Dec-15		Other(Misc)	Safety shoes allowance
	363380	3-Dec-15		Other(Misc)	Safety shoes allowance
Paulson, David	363782	17-Dec-15		Membership/Certification	Water Distribution Grade V certification
idlin, Wayne	363971	23-Dec-15		Membership/Certification	Lab Analyst Grade 1 certification
myth, Jeff	363383	3-Dec-15		Membership/Certification	PE License renewal
tewart, Billy	363392	3-Dec-15		Membership/Certification	PE License Renewal
Tegel, Zack	363800	17-Dec-15		Membership/Certification	Collections Grade II certification
Webb, Douglas	363377	3-Dec-15		Other(Misc)	Safety shoes allowance
Welch, Kellie	363789	17-Dec-15	202.79	Lodging	Dudley Ridge Water District Board of Directors mtg., Fresno, CA 11/11/2015

January 25, 2016

Prepared by: J. Smyth/M Cortez

Submitted by: K. Burton

Approved by: Paul Cook

CONSENT CALENDAR

PIEZOMETER AUTOMATION FINAL ACCEPTANCE

SUMMARY:

The Piezometer Automation project is complete. The contractor, Halcyon Electric, has completed the required work and all punch list items. The project has received final inspection and acceptance of construction is recommended.

BACKGROUND:

The Piezometer Automation project installed vibrating wire piezometers (VWP) and dataloggers at the dams of Rattlesnake, Sand Canyon and Syphon Reservoirs, similar to the VWP at the upstream dam face of San Joaquin Reservoir. This project also replaced the existing corroded enclosure and outdated datalogger at San Joaquin Reservoir to upgrade and standardize the equipment with the new dataloggers at the other three dams.

Staff completed the design in July 2015. Halcyon Electric was awarded the construction contract on August 25, 2015 and completed construction and commissioning of the system on December 18, 2015.

Project Title:

Piezometer Automation

Project No.:

30572 (6298)

Design Engineer:

IRWD Staff

Construction Management by:

IRWD Staff

Contractor:

Halcyon Electric

Original Contract Cost:

\$110,000

Final Contract Cost:

\$110,000

Original Contract Days:

150

Final Contract Days:

115

Consent Calendar: Piezometer Automation Final Acceptance

January 25, 2016

Page 2

FISCAL IMPACTS:

Project 30572 (6298) is included in the FY 2015-16 Capital Budget. The existing budget is sufficient to fund the final payment for the project.

ENVIRONMENTAL COMPLIANCE:

This project is exempt from the California Environmental Quality Act (CEQA) as authorized under the California Code of Regulations, Title 14, Chapter 3, Section 15301 which provides exemption for minor alterations of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of use beyond that existing at the time of the lead agency's determination. A Notice of Exemption for the project was filed with the County of Orange on June 3, 2015.

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDATION:

THAT THE BOARD ACCEPT CONSTRUCTION OF THE PIEZOMETER AUTOMATION, PROJECT 30572 (6298); AUTHORIZE THE GENERAL MANAGER TO FILE A NOTICE OF COMPLETION; AND AUTHORIZE THE PAYMENT OF THE RETENTION 35 DAYS AFTER THE DATE OF RECORDING THE NOTICE OF COMPLETION.

LIST OF EXHIBITS:

None.

January 25, 2016

Prepared by: M. Robinson/E. Akiyoshi

Submitted by: K. Burton KLB

Approved by: Paul Cook

CONSENT CALENDAR

ORANGE COUNTY WATER DISTRICT ANNEXATION BUDGET INCREASE

SUMMARY:

IRWD pays an annual fee for the October 1999 (Santiago Canyons) and October 2013 annexations to Orange County Water District (OCWD). Staff recommends that the Board approve a budget increase in the amount of \$132,600, from \$439,400 to \$572,000, as a result of changes from the estimated to actual annexation fee charges for OCWD's Water Year 2014-15.

BACKGROUND:

In February 1986, OCWD adopted a policy regarding annexations to IRWD (Resolution No. 86-2-15). IRWD has since entered into two separate annexation agreements with OCWD: October 1999 (Santiago Canyon Areas) and October 2013 (which became effective on July 1, 2014).

The OCWD annexation policy is meant to "... accommodate long-term producers and provide uniformity of cost and access (1986 Annexation Policy)." This is accomplished through the annexation fee, by which OCWD collects what would have been ad valorem property tax received by OCWD before Proposition 13.

Staff budgeted for the estimated annexation fees, but the actual fees are greater than originally estimated. The main factors contributing to the higher annexation fees include:

- Higher actual Basin Production Percentage of 70% vs. 68% (estimated);
- Higher actual water demands in the annexed areas compared to those previously projected (+9.9%); and
- Higher actual Ad Valorem Tax per acre-foot of groundwater pumped in OCWD (+11%)

FISCAL IMPACTS:

Staff requests a budget increase for Project 1363, OCWD Annexation Fee 15/16 in the amount of \$132,600. OCWD's Water Year 2014-15 (July 1 to June 30) charges are paid by IRWD's Fiscal Year 2015-16 project. The annexation fee is \$5,294.55 (Santiago Canyons) and \$514,556.22 (October 2013) for a total of \$519,850.77.

Project	Current	Addition	Total
No.	Budget	<reduction></reduction>	Budget
1363	\$439,400	\$132,600	\$572,000

Consent Calendar: Orange County Water District Annexation Budget Increase

January 25, 2016

Page 2

ENVIRONMENTAL COMPLIANCE:

This project is exempt from the California Environmental Quality Act (CEQA) as authorized under the California Code of Regulations, Title 14, Chapter 3, Section 15061 (b) (3). The activity is covered by the general rule that CEQA applies only to projects which have the potential for causing a significant effect on the environment. Where it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment, the activity is not subject to CEQA.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on January 19, 2016.

RECOMMENDATION:

THAT THE BOARD APPROVE A BUDGET INCREASE IN THE AMOUNT OF \$132,600, FROM \$439,400 TO \$572,000, FOR ORANGE COUNTY WATER DISTRICT ANNEXATION FEE 15/16, PROJECT 1363.

EXHIBITS:

None.

January 25, 2016

Prepared by: R. Thatcher/E. Akiyoshi

Submitted by: K. Burton

Approved by: Paul Cook

CONSENT CALENDAR

ACQUISITION OF LAND AND EASEMENTS FOR EASTWOOD AND HIDDEN CANYON PUMP STATIONS

SUMMARY:

Staff recommends that the Board adopt a resolution authorizing the acquisition of the pump station sites and associated easements for Eastwood and Hidden Canyon developments from Irvine Community Development Company LLC (ICDC) and The Irvine Land Company LLC (TILC) and authorize the General Manager to execute the associated conveyance agreements and related deeds. Staff also recommends the Board authorize the General Manager to execute an agreement between IRWD and the City of Irvine with regard to costs and responsibilities associated with activities within an existing City of Irvine storm drain easement within the Eastwood Pump Station site.

BACKGROUND:

IRWD constructed domestic and recycled water booster pump stations serving the Hidden Canyon development in Planning Area 18. The facility is in service and has been accepted by the District. The land required for the pump station site will be dedicated to IRWD by TILC as part of the Hidden Canyon development.

Eastwood, located near Irvine Boulevard and Jeffrey Road, is the newest residential development by ICDC in Irvine. As part of the project ICDC agreed to dedicate a lot for the future construction of a multi-zone recycled water booster pump station. Also, as part of the development of Eastwood, ICDC has agreed to construct a perimeter wall around the pump station site. A portion of the proposed wall will lie within the existing City storm drain easement dedicated per Tract 17523. The City desires to enter into an agreement with IRWD regarding responsibilities of IRWD within the storm drain easement. The agreement addresses costs associated with IRWD activities with the City's easement area. Also, if the City needs to repair or replace the storm drain within its easement, IRWD shall be responsible for the repair or replacement of the wall currently being constructed around the site.

The resolution authorizing the acquisition of the sites and related easements is attached as Exhibit "A". The conveyance agreement and associated deeds between ICDC and IRWD for the Eastwood Pump Station site are attached as Exhibit "B". The conveyance agreement and associated deed between TILC and IRWD for the Hidden Canyon Pump Station site are attached as Exhibit "C". The agreement between the City and IRWD is attached as Exhibit "D". The proposed agreements and associated deeds mentioned above have been reviewed by IRWD's legal counsel.

Consent Calendar: Acquisition of Land and Easements for Eastwood and Hidden Canyon Pump

Stations

January 25, 2016

Page 2

FISCAL IMPACTS:

The Eastwood and Hidden Canyon pump station sites are being conveyed to IRWD by ICDC and TILC upon IRWD's acceptance of the obligations and restrictions described in the Grant Deed documents.

ENVIRONMENTAL COMPLIANCE:

Acquisition of Eastwood and Hidden Canyon Pump Station sites is not subject to the California Environmental Quality Act (CEQA) as authorized under the California Code of Regulations, Title 14, Chapter 3, Section 15061 (b) (3), in that CEQA applies only to projects that may result in a direct physical change in the environment or reasonably foreseeable indirect physical change in the environment.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on January 19, 2016.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE ACQUISITION OF THE PUMP STATION SITES FOR EASTWOOD AND HIDDEN CANYON DEVELOPMENTS FROM IRVINE COMMUNITY DEVELOPMENT COMPANY LLC AND THE IRVINE LAND COMPANY LLC; AUTHORIZE THE GENERAL MANAGER TO EXECUTE THE CONVEYANCE AGREEMENTS AND RELATED DEEDS FOR THE ACQUISITIONS; AND AUTHORIZE, SUBJECT TO NON-SUBSTANTIVE CHANGES, THE GENERAL MANAGER TO EXECUTE THE AGREEMENT BETWEEN THE CITY OF IRVINE AND IRWD WITH REGARD TO THE CITY OF IRVINE'S STORM DRAIN EASEMENT WITHIN THE PROPOSED EASTWOOD PUMP STATION SITE AND ADOPT THE FOLLOWING RESOLUTION BY TITLE.

RESOLUTION NO. 2016 - ___

RESOLUTION OF THE BOARD OF DIRECTORS OF IRVINE RANCH WATER DISTRICT AUTHORIZING ACQUISITION OF LAND AND EASEMENTS FOR EASTWOOD AND HIDDEN CANYON PUMP STATIONS

LIST OF EXHIBITS:

Exhibit "A" - Board Resolution

Exhibit "B" – Eastwood Pump Station Conveyance Agreement (with deeds)

Exhibit "C" - Hidden Canyon Pump Station Conveyance Agreement (with deed)

Exhibit "D" – City/IRWD Agreement regarding City's Storm Drain Easement

EXHIBIT "A"

RESOLUTION NO. 2016 -

RESOLUTION OF THE BOARD OF DIRECTORS OF IRVINE RANCH WATER DISTRICT AUTHORIZING ACQUISITION OF LAND AND EASEMENTS FOR EASTWOOD AND HIDDEN CANYON PUMP STATIONS

WHEREAS, the Irvine Ranch Water District (IRWD) has identified a need for water pump stations within the residential communities known as "Eastwood" and "Hidden Canyon" (the "Pump Station Projects"); and

WHEREAS, IRWD has identified preferred sites and associated easements for the Pump Station Projects, depicted in Exhibit A hereto (the "Property"); and

WHEREAS, the Board of Directors desires to authorize staff to implement further actions as needed, including acquisition under IRWD's power of eminent domain if necessary, to complete the acquisition of the Property from the owner thereof;

NOW, THEREFORE, the Board of Directors of Irvine Ranch Water District does hereby RESOLVE AND DETERMINE AND ORDER AS FOLLOWS:

Section 1. Staff is authorized and directed to take appropriate steps in order to acquire the Property, including all studies and evaluations as staff deems appropriate for identification and acquisition of the Property and including, if necessary, acquisition under IRWD's power of eminent domain with further proceedings by this Board as required by law.

Section 2. The General Manager and Secretary are hereby authorized to execute such agreements and other documents as may be necessary to complete such acquisition.

ADOPTED, SIGNED and APPROVED this 25th day of January, 2016.

President, IRVINE RANCH WATER
DISTRICT and of the Board of Directors
thereof

Secretary, IRVINE RANCH WATER
DISTRICT and of the Board of Directors
thereof

APPROVED AS TO FORM: BOWIE, ARNESON, WILES & GIANNONE IRWD Legal Counsel

00185484/091015

EXHIBIT "B"

CONVEYANCE AGREEMENT

(EASTWOOD BOOSTER PUMP STATION, P.R. No. 30408, 30409, and 30410)

			1120 1100 00 100,00 100 ,	
by and between	n IRVINE ansferor" the Califo	COMMU , and IRV ornia Wate	GREEMENT ("Agreement") is made as of	organized under
Transferor, sho	ansferor a own and d on EXHII uated in C Documer	and Transf escribed of <u>SIT</u> "2" at	pon all the terms and conditions contained herein, Transferee hereor agrees to convey to Transferee the parcel of real property on the Grant Deed attached as <a "land")"="" (the="" 1"="" href="EXHIBIT">EXHIBIT "1" (the "Land") and the tached hereto (collectively, the Land and said easement being the unty, California. Transferee shall cause the following listed do recorded upon its receipt of this Agreement and the Conveyance.	he easement shown referred to as the
	(a)	Grant I	Deed (the "Grant Deed") (EXHIBIT "1");	
	(b)	Grant o	of Easement (EXHIBIT "2").	
of this Agreem	ll, in addi ent, indic ecuted by	tion to per ate, by pro Transfero	As consideration for Transferor's conveyance of the Property to forming all of its obligations under this Agreement, concurrent oper execution of a certificate of acceptance, its acceptance of the Grant Deed contains certain obligations and restrictions.	the Conveyance
3.	Costs	and Prora	tions.	
own respective	n in conno e legal an	ection with d accounti id by Tran	sts. Transferee shall bear the cost of any title insurance policy its acquisition of the Property. Transferee and Transferor shaing costs, if any, in connection with the conveyance of the Propusferee. All other costs or expenses not otherwise provided for between Transferee and Transferor in the manner customary in	Ill each bear their berty. All recording in this Agreement
	(b)]	Taxes.		
separately asso by Transferee.		(i) removed	Separate Assessment. Transferee shall have the right to have from the real property tax roll effective on the date of acquisitions.	e the Property on of the Property
California Rev Property remo that portion of have been paid payment made	venue and oved from f the tax f d by Tran e uncollec-	Taxation the real p iscal year sferor app tible by the	Existing Taxes. Transferee and Transferor shall cooperate in seed and segregated in Transferee's name on the current tax rol. Code Section 2801, et seq., and Transferee shall have the right roperty tax roll and to have the county tax collector cancel any which begins on the date of acquisition of the Property by Translicable to the portion of the tax fiscal year after acquisition by his paragraph and Revenue and Taxation Code 4986 shall be ded pursuant to Revenue and Taxation Code Sections 5086 and of the tax of acquisition, to apply to the Orange County Audit	Il, as provided in to apply to have the taxes applicable to asferee. If taxes Transferee, such tax eemed between the 096.7 and the

or Treasurer for refund of such taxes which may be due Transferor pursuant to Revenue and Taxation Code Section

- 5096.7. All current property taxes and all general and special bonds and assessments shall be prorated between Transferee and Transferor as of the date of recordation of the Grant Deed, based upon the latest available tax information as provided by Transferor, using customary procedures, without regard to any subsequent reassessments.
- the Property separately assessed and removed from the tax rolls, this paragraph shall apply. Any taxes or assessments levied with respect to the Property under the Supplemental Tax Roll as a result of this conveyance, whether prior to the normal assessment date or otherwise, shall be the sole responsibility of Transferee. Should the Property be part of a larger tax parcel which as of the date of recordation of the Grant Deeds remains unsegregated on the Orange County Tax Assessor's rolls for the coming fiscal tax year, then Transferor at its option may either (i) charge Transferee and credit itself for the percentage of taxes and assessments as regards the Property on an acreage basis compared to acreage for the entire tax parcel, which percentage figure or formula for allocation shall be supplied by Transferor (and Transferee's approval is not required with regard thereto), or (ii) charge Transferee after recordation of the Grant Deeds with that portion of said taxes actually affecting the Property. In the event of any such charge to and payment from Transferee, Transferor shall make payment prior to delinquency of all property taxes and assessments for the current fiscal year on the entire parcel of which the Property is a part; and Transferee shall deliver to Transferor within thirty (30) days of Transferor's demand an amount equal to any additional or supplemental taxes, assessments and reassessments attributable to the Property as imposed by the County Tax Assessor.
- (iv) Assessments and Special Taxes. The foregoing notwithstanding, Transferor represents that with respect to any assessment district or community facilities district within which the Property or any portion thereof has been included prior to the date hereof, to the extent permitted by law, the Property is exempt or otherwise excluded from any assessment, assessment lien, or special tax obligation. Except as otherwise required by law, no assessment, assessment lien or special tax obligation may be imposed on the Property after the date hereof without Transferee's express written consent.
- 4. <u>Transferee Representations and Obligations</u>. In addition to its obligations under other provisions of this Agreement, Transferee represents and warrants to Transferor, and hereby acknowledges and agrees as follows:
- (a) Prior Investigation and Transferee Satisfaction. Transferee is familiar with the Property and has made or will make such independent investigations as Transferee deems necessary or appropriate concerning: the suitability for Transferee's proposed uses of the Property, including but not limited to any desired investigations or analyses of present or future laws, statutes, rules, regulations or ordinances (collectively "Regulations"), and the necessity or availability of any governmental permits, approvals or acts (collectively, the "Permits"); any surface, soil, subsoil, geologic or ground water conditions or other physical conditions of or affecting the Property; the extent or condition of title to the Property; and all other matters concerning the condition or Transferee's proposed use of the Property. Transferee is relying solely upon its own inspection, investigation and analyses of the foregoing matters in entering into this Agreement and is not relying in any way upon any representations, statements, agreements, warranties, studies, reports, descriptions, guidelines or other information or material furnished by Transferor or its representatives, whether oral or written, express or implied, of any nature whatsoever regarding any such matters. Transferee will acquire the Property "AS IS," in its present state and condition, without representation by Transferor or its representatives as to any matter, whether or not expressly mentioned herein.
- (b) Grading. Transferee hereby agrees to, at its sole cost, perform all remedial work on the Property necessary for installation of the intended facilities and remove all excess soil, rock and other materials generated from the grading and improvement of the Property.
- (c) <u>Site Plan and Coordination</u>. Transferee agrees to deliver to Transferor for its approval a site plan for Transferee's installation of improvements upon the Property, which plan shall set forth the

configuration, location, grade, elevation and exterior materials and colors of the above-ground portions of any improvements (the "Site Plan"). Transferee shall obtain Transferor's final approval of the Site Plan prior to the installation of the proposed improvements on the Property.

- (d) No Assignment. Transferee shall not assign its rights and interest under this Agreement to any person or entity, except another governmental entity providing the same type of service as provided by Transferee by means of the Facilities to the surrounding subdivision, without providing Transferor a right of first offer to be exercised within fourteen (14) days from the date Transferee notifies Transferor of the price and material terms upon which it is willing to sell or assign. Any such attempted sale or assignment made in violation of this provision shall be null and void.
- 5. <u>Mutual Representations and Warranties</u>. In addition to all other representations and warranties, if any, made in this Agreement, each party represents and warrants to the other as follows:
- (a) <u>Due Authorization</u>. The execution of this Agreement by it, its delivery to the other party pursuant hereto, and the performance of its obligations under this Agreement have been duly authorized by its Board of Directors and no further act or other authority is necessary on its part for such execution, delivery and consummation.
- (b) No Violation. The execution, delivery, performance of and compliance with this Agreement has not resulted and will not result in any violation of, conflict with, or default under, any mortgage, indenture, contract, agreement, instrument, franchise, permit, judgment, decree, order, statute, rule or regulation applicable to it.
- (c) No Action or Proceedings. There is no suit, action or legal, administrative, arbitration or other proceeding or investigation pending or, to the knowledge of such party, threatened which affects its ability to perform its obligations hereunder or under the Grant Deed.
- (d) Sale in Lieu of Condemnation. Transferee has, through an action of its Board of Directors, duly adopted a resolution with regard to the acquisition of the Property by eminent domain proceedings or negotiated acquisition in lieu of eminent domain.
- 6. <u>Further Documents and Acts.</u> Each of the parties hereto agrees to cooperate in good faith with each other, and to execute and deliver such further documents and perform such other acts as may be reasonably necessary or appropriate to consummate and carry into effect the transactions contemplated under this Agreement.

Miscellaneous.

- hereunder to be performed in whole or in part after recordation of the Grant Deed, and all representations, warranties and indemnities by either party to the other, shall survive recordation of the Grant Deed and be binding upon and inure to the benefit of the respective parties hereto and their respective heirs, successors and permitted assigns. Any agreements, understandings, warranties or representations not expressly contained herein shall in no way bind either Transferor or Transferee. Transferor and Transferee each expressly waives any right of rescission and all claims for damages by reason of any statement, representation, warranty, promise and/or agreement, if any, not contained in or attached to this Agreement.
- (b) Waiver, Consent and Remedies. Either party may specifically and expressly waive in writing any portion of this Agreement or any breach thereof, but no such waiver shall constitute a further or continuing waiver of any preceding or succeeding breach of the same or any other provision. A waiving party may at any time thereafter require further compliance by the other party with any provision so waived. The consent by

one party to any act by the other for which such consent was required shall not be deemed to imply consent or waiver of the necessity of obtaining such consent for the same or any similar acts in the future. No waiver or consent shall be implied from silence or any failure of a party to act, except as otherwise specified in this Agreement. Except as otherwise specified in this Agreement, (i) all rights, remedies, undertakings, obligations, options, covenants, conditions and agreements contained in this Agreement shall be cumulative and no one of them shall be exclusive of any other, and (ii) either party may pursue any one or more of its rights, options or remedies hereunder or may seek damages or specific performance in the event of the other party's breach hereunder, or may pursue any other remedy at law or equity, whether or not stated in this Agreement.

- (c) Attorneys' Fees. In the event any declaratory or other legal or equitable action is instituted between Transferor and Transferee in connection with this Agreement, then the prevailing party shall be entitled to recover from the losing party all of its costs and expenses, including court costs and reasonable attorneys' fees.
- (d) Notices. Any notice, request, demand, consent, approval or other communication required or permitted hereunder or by law shall be validly given or made only if in writing and delivered in person to an officer or duly authorized representative of the other party or by United States mail, duly certified or registered (return receipt requested), postage prepaid, and addressed to the party for whom intended, as follows:

If to Transferor: The Irvine Company

550 Newport Center Drive

P.O. Box I

Newport Beach, CA 92658-8904

Attention: Senior Vice President, Community Development

With a copy to: The Irvine Company

550 Newport Center Drive

P.O. Box I

Newport Beach, CA 92658-8904 Attention: General Counsel

If to Transferee: Irvine Ranch Water District

15600 Sand Canyon Avenue

P.O. Box 57000

Irvine, CA 92619-7000 Attention: General Manager

With a copy to: Bowie, Arneson, Wiles & Giannone

4920 Campus Drive, Suite A Newport Beach, CA 92660 Attention: Joan C. Arneson

Any party may from time to time, by written notice to the other as provided above, designate a different address which shall be substituted for that specified above. If any notice or other document is sent by mail as aforesaid, the same shall be deemed served or delivered seventy-two (72) hours after mailing thereof as above specified.

(e) <u>Gender and Number</u>. In this Agreement (unless the context requires otherwise), the masculine, feminine and neuter genders and the singular and the plural shall be deemed to include one another, as appropriate.

(f) Entire Agreement. This Agreement and is between the parties hereto pertaining to the subject matter hereof, and of the terms and conditions thereof. All prior agreements, represent parties hereto, oral or written, express or implied, are hereby superse	ations, negotiations and understandings of the
(g) <u>Captions</u> . The captions used herein are for Agreement and do not in any way limit or amplify the terms and pro	for convenience only and are not a part of this povisions hereof.
(h) <u>Governing Law</u> . This Agreement and the and executed in the State of California and shall be governed by and California.	e exhibits attached hereto have been negotiated construed under the laws of the State of
(i) <u>Invalidity of Provision</u> . If any provision any circumstance shall be adjudged by a court of competent jurisdic the same shall in no way affect (to the maximum extent permissible the application of any such provision under circumstances different validity or enforceability of the Agreement as a whole.	by law) any other provision of this Agreement,
(j) <u>Amendments</u> . No addition to or modifice Agreement shall be effective unless fully set forth in writing execute	ation of any provision contained in this ed by both Transferee and Transferor.
(k) <u>Counterparts</u> . At Transferor's or Transfe one or more counterparts, each of which shall be deemed an origina one and the same instrument.	ree's option, this Agreement may be executed in I, but all of which together shall constitute but
(I) <u>Exhibits</u> . All exhibits to this Agreement IN WITNESS WHEREOF, the parties have executed this A	are incorporated herein by this reference. Agreement as of the date first above written.
TRANSFEROR:	TRANSFEREE:
IRVINE COMMUNITY DEVELOPMENT COMPANY LLC, a Delaware limited liability company	IRVINE RANCH WATER DISTRICT a California water district organized under Division 13 of the California Water Code
J. David Conley, Sr. Vice President	By: Paul Cook, General Manager
By: Jamie Yoshida, Assistant Secretary	By:

EXHIBIT "1"

Recording Requested by and When Recorded Return to:

Irvine Ranch Water District 15600 Sand Canyon Avenue P. O. Box 57000 Irvine, California 92619-7000 Attn: Ray Thatcher, ROW Agent IRWD Doc. D____

With a conformed copy to:

Irvine Community Development Company LLC 550 Newport Center Drive Newport Beach, CA 92660 Attn: General Counsel's Office

ASSESSOR'S PARCEL NO:

551-431-01

MAIL TAX STATEMENTS TO ABOVE ADDRESS

SPACE ABOVE THIS LINE FOR RECORDER'S USE

DOCUMENTARY TRANSFER TAX \$ None - Tax Exempt

Computed on full value of property conveyed:

Computed on full value less the value of liens or
Encumbrances thereon remaining at time of sale

FREE RECORDING REQUESTED -- Essential to acquisition by Irvine Ranch Water District (Government Code §6103)

GRANT DEED (Water Pump Station, Lot 26, Tract 17849)

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, IRVINE COMMUNITY DEVELOPMENT COMPANY LLC, a Delaware limited liability company ("Grantor"), hereby grants to IRVINE RANCH WATER DISTRICT, a California water district organized under Division 13 of the California Water Code ("Grantee"), the following described real property (the "Land") in the County of Orange, State of California:

That certain real property described on Exhibit "A" and depicted on Exhibit "B," which exhibits are attached hereto and incorporated herein by this reference.

Excepting from the Land, all oil, mineral and other related rights as reserved by THE IRVINE COMPANY LLC, a Delaware limited liability company, its successors and assigns, in that certain deed recorded on December 28, 2012, as Instrument No. 2012000812939 in the Official Records of Orange County, California ("Official Records").

Reservations. The Land shall be accepted by Grantee subject to the following reservations in favor of Grantor, its successors and assigns, together with the right (without the consent of Grantee or any other owner of an interest in the Land) to grant, transfer, license or otherwise convey all or a portion of the same to one or more grantees, transferees or licensees:

A. <u>Utilities.</u> Permanent nonexclusive easements in gross on, over, under and across the portions of the Land within twenty (20) feet of any property line bordering on and parallel to any public or private street, for the installation, inspection, operation, maintenance, repair and replacement of electric, gas, telephone, cable, telephone, communication, water, sewer, conduit and other facilities, systems and other utilities (collectively, "Utilities"), as well as drainage facilities, storm drains, storm drain outlets and related storm drain facilities (collectively, "Drainage Facilities"); provided, however, that (1) no Utilities or Drainage Facilities shall be installed without the

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prior written approval of Grantee, which approval shall not be unreasonably withheld or delayed, and (2) any improvements within the Land that are damaged by the installation, construction or repair of any Utilities or Drainage Facilities allowed pursuant to these reserved easements shall be repaired and restored by the entity performing the work that caused the damage, at no expense to Grantee, as closely as reasonably practicable to the conditions that existed prior to such installation, construction or repair.

B. Perimeter Walls. Permanent nonexclusive easements in gross on, over, under and across the portions of the Land within fifteen (15) feet of all property lines of the Land, for the construction, installation, inspection, maintenance, repair and replacement of a the Wall (and associated footings) and Gate (as such terms are defined in Section 3.5 below) around the Land to separate it from neighboring lots owned by, or to be conveyed to, the City of Irvine or the homeowners association for the community in which the Land is located; provided, however, that the portions of such reserved easements that are adjacent to property owned by, or to be conveyed to, any homeowners association are subject to the obligation to maintain the exterior face of the Walls as set forth in Section 3.5(b)(iv).

SUBJECT TO:

- 1. General and special taxes and assessments for the current fiscal tax year and any and all non-delinquent bonds and/or assessments;
- All other covenants, conditions, restrictions, reservations, rights, rights-of-way, easements, dedications, offers of dedications and other matters of record or apparent, including without limitation, that certain storm drain easement dedicated to the City of Irvine on the subdivision map for Tract 17523, filed in Book 926, Pages 1 through 18, inclusive, of Miscellaneous Maps, in the Official Records.
- The following covenants, conditions, rights and restrictions (collectively "CC&Rs"), which shall remain in effect in perpetuity unless sooner terminated or modified as hereinafter provided.
- landholding in Orange County, California, of which the Land is a part, and Grantor is engaged in master-planning said landholding. The limitations on Grantee's use of the Land pursuant to the terms of this Grant Deed are an integral part of Grantor's master plan for its landholding and shall benefit other land owned by Grantor more particularly described on Exhibit "C" attached hereto (the "Benefitted Property"). Grantee's construction, maintenance and operation of the Facilities described in Section 3.2 on the Land are needed to enable Grantor to develop a portion of the landholding. The CC&Rs shall run and pass with each and every portion of the Land and shall be binding upon Grantee, its successors and assigns and shall be enforceable, subject to Section 3.9(a) below, by Grantor and its successors and assigns.
- 3.2 <u>Use Restrictions</u>. The Land is conveyed subject to the restriction and requirement that said Land shall be used solely for the purpose of construction, maintenance and operation of water pump station and associated transmission, vaults and valve structures and any other facilities associated therewith or incidental thereto, including, but not limited to, parking lot, drains, retaining walls and radio telemetry equipment associated with operation of such facilities (collectively, the "Facilities"). Except for the radio telemetry equipment described in the preceding sentence, Grantee shall not install or permit the installation on the Land of any type of aerial or aboveground towers or facilities related to cellular telephone services or the transmission of communications or information.

3.3. Installation of Facilities.

(a) Purposes and Continued Use. Grantee represents and agrees that Grantee shall cause the Land to be improved only with the Facilities, which shall consist of the facilities generally described in Section 3.2 and more fully described in the preliminary design report for the Facilities previously approved by Grantor, and the preliminary design report (the "Preliminary Design Report") and any facilities or appurtenances that are functionally related to such Facilities and that may be or become necessary or prudent to install from time to time, and that Grantee shall cause the Land to be used solely for the uses described in Section 3.2 above, and in full accordance with all of the terms of this Grant Deed; provided, however, that Grantee shall have the right to improve the Land with improvements other than those which are described in the Preliminary Design Report or final improvement plans or which are functionally related thereto or to use the Land for uses other than those described in Section 3.2, if Grantee first submits to Grantor a preliminary design report for such changed or added improvements and/or uses and Grantor has given its approval, which shall not be unreasonably withheld (determined in accordance with Section 3.3(d) below). Upon approval of such preliminary design report by Grantor,

such other improvements and/or uses shall thereafter be deemed for all purposes hereof to be included within the term "Facilities" and/or to constitute uses described in Section 3.2, provided, however, that nothing in this section shall be construed to relieve Grantee of the requirements of Section 3.6 regarding the submittal and approval of final improvement plans for such other improvements and/or uses. The Preliminary Design Report and any additional preliminary design reports approved as provided in this section shall be retained by Grantee for a period of fifty (50) years, and a copy shall be provided to Grantor if requested.

(b) Grading. Prior to the commencement of any grading or similar work on the Land, Grantee shall submit to Grantor for its approval (as set forth in Section 3.6) two sets of plans and specifications for grading, terracing and filling of the Land and for construction of other similar improvements in, on or about the Land.

(c) Construction. Prior to the commencement of construction of the Facilities, Grantee shall submit to Grantor for its approval (as set forth in Section 3.6) two sets of construction plans and specifications therefor, including but not limited to two sets of plot plans showing the proposed configuration, location, grade and elevation of the Facilities and all utility and service connections thereto. Such plans and specifications shall be consistent with the Preliminary Design Report (if submitted in connection with the Facilities initially constructed on the Land) or the applicable preliminary design report previously submitted to Grantor by Grantee and approved by Grantor (if submitted in connection with any other improvements not described in the Preliminary Design Report or for any changed or added improvements thereafter). As soon as practicable after the date of recordation of this Grant Deed, and subject to availability of reasonable access to the Land, Grantee shall construct and install the Facilities in accordance with plans and specifications approved in writing by Grantor. The foregoing requirements shall also apply to any changes that Grantee desires to make to the Gate (as defined in Section 3.5 below), including any replacement of the Gate facilities.

(d) Approval of Changed or Added Improvements or Uses.

(i) Definitions.

(A) "Type A Improvements and Uses" shall mean (aa) improvements (other than the Facilities) and/or uses which are functionally consistent with sound utility engineering practices regarding, and functionally related to, Grantee's provision of water, sewer and reclaimed water services, including but not limited to any single family residence determined by Grantee to be necessary to provide on-site living accommodations for a caretaker or operator for Grantee's other permitted facilities located on the Land, and (bb) electrical generating facilities located in a building on the Land (which building is either included within the Facilities or otherwise satisfies the criteria of this section), which operate off of excess water pressure or flow.

(a) "Type B Improvements and Uses" shall mean improvements (other than the Facilities) and/or uses which are under the control of and used solely by Grantee and its employees, but which are not Type A Improvements and Uses. By way of example only, Type B Improvements and Uses would include (aa) an old residence of historical value which is being restored by Grantee for the benefit of the community, or (bb) a recreational/picnic area used solely by Grantee's employees and their guests.

(C) "Type C Improvements and Uses" shall mean all improvements (other than the Facilities) and/or uses which are not Type A or Type B Improvements and Uses.

(D) "Aesthetic Standards" shall be deemed satisfied if the improvements and/or uses (aa) are visually and aesthetically in harmony and conformity with other existing or proposed improvements in the vicinity of the Land, (bb) do not produce direct lighting which is not shielded or confined within the boundaries of the Land, (cc) do not emit odors, noxious, caustic or corrosive matter, and (dd) do not block views from existing or proposed improvements in the vicinity of the Land.

improvements and/or uses (aa) are of the same character (both in appearance and type of activity) as the improvements and uses in the vicinity of the Land, (bb) are consistent with accepted land use planning criteria for a planned use community, (cc) are consistent with the master utility and circulation plans of Grantor and the city or county in which the Land is located, (dd) do not (except on a temporary basis during construction or repair activities) produce any vibration, noise, sound or disturbance that is objectionable due to intermittence, heat, frequency, shrillness or loudness, (ee) do not cause a risk, either actual or evidenced by a demonstrated reduction in market value of properties or by a documented controversy in the medical or scientific communities, of health problems or injury to residents or occupants of other existing or proposed improvements in the vicinity of the Land (such as a hazardous or toxic materials collection site).

(F) "Commercial Standards" shall be deemed satisfied if the improvements and/or uses (aa) do not compete with any commercial enterprise of Grantor in the vicinity of the Land, including but not limited to the business of any lessee of land or building space or other facilities leased from Grantor, and (bb) comply with the zoning requirements of the city or county in which the Land is located.

improvements in the vicinity of the Land" shall mean those improvements to be located in the vicinity of the Land regarding which Grantor has, at the time the standards are being applied, (aa) applied for or received entitlement (zoning, general plan amendment, specific plan or tentative tract or subdivision map) from the city or county in which the Land is located and (bb) established for dissemination to the governmental agency having jurisdiction or potential purchasers or developers design guidelines or architectural criteria for future development. If the criteria in (aa) and (bb) are not satisfied, then the "proposed improvements in the vicinity of the Land" shall be deemed to be improvements of a nature and appearance substantially similar to the development located in the service area regarding which Grantee provides water service and identified by Grantor as the development most likely to be representative of future development in the vicinity of the Land.

(ii) Approval of Changed or Added Uses or Improvements. Notwithstanding any other provision of this Grant Deed to the contrary, Grantor and Grantee agree that it shall be reasonable for Grantor to disapprove any proposed changed or added improvements and/or uses unless:

(A) Type A Improvements and Uses have satisfied the Aesthetic

Standards;

(B) Type B Improvements and Uses have satisfied the Aesthetic Standards and the Compatibility Standards; and

(C) Type C Improvements and Uses have satisfied the Aesthetic Standards and the Compatibility Standards and the Commercial Standards.

3.4 Landscaping.

- (a) <u>Installation</u>. At such time as Grantor develops the property surrounding the Land, Grantee shall install landscaping on the Land in accordance with the landscaping concept contained in the Preliminary Design Report (to the extent that any landscaping is included in the Preliminary Design Report).
- (b) <u>Maintenance</u>. Grantee shall provide irrigation and maintenance for all of the landscaping in such manner and at such intervals as shall be required to continuously maintain such landscaping in the condition originally intended in the landscaping concept shown in Preliminary Design Report and any plans subsequently approved by Grantor. Grantee shall keep the Land and all improvements thereon free and clear of all debris and rubbish and in a good, neat, clean and sightly condition.
- (c) Grantee to Repair Damage. In the event that any landscaping is installed by Grantee within the Land, then if any of the landscaping or related irrigation systems are at any time and in any manner damaged or removed in connection with Grantee's use, operation or repair of the Land or the Facilities, then Grantee, at its sole expense, shall cause the landscaping and irrigation systems to be replaced or repaired as soon as practicable after the damage or removal.

3.5 Perimeter Walls.

(a) Acceptance of Walls. Grantee acknowledges and agrees that the perimeter walls (the "Walls") and entry gate (the "Gate") installed (or to be installed) by Grantor around the borders of the Land are (or shall be upon completion in accordance with the plans therefor) the property of Grantee, Grantee accepts the condition of the Walls installed prior to recordation of this Grant Deed in their "AS IS" condition as of the date of recordation of this Grant Deed. Grantee further acknowledges and agrees that Grantee is and shall remain responsible for the inspection, maintenance, repair and replacement of the Walls and Gate in accordance with the provisions of this Section 3.5.

(b) Maintenance. Grantee's maintenance responsibilities for the Walls and Gate are as

follows:

(i) <u>Structural Integrity and Wall Footings</u>. Grantee shall maintain, in good condition and repair, the structural integrity and footings of the Walls.

- (ii) <u>Interior Face of Walls</u>. Grantee shall maintain, in good condition and repair, the interior face of all portions of the Walls that are visible from within the Land.
- (iii) Exterior Face of Walls Next to City Property. Grantee shall maintain, in good condition and repair, the exterior face of all portions of the Walls located next to property owned by the City of Irvine.
- (iv) Exterior Face of Walls Next to Association Property. Grantee shall have no responsibility to maintain the exterior face of the Walls located next to property owned by or to be conveyed to any homeowners association. Maintenance of said portion of the Walls shall be the responsibility of Grantor or, following any such conveyance to a homeowners association, the applicable homeowners association, as contemplated by reservation clause B of this Grant Deed.
- (v) Entry Gate. Grantee shall maintain the Gate (as well as any replacement gate subsequently installed by Grantee) so that it is in good operating condition and repair at all times, including without limitation any mechanical or electrical equipment and devices incorporated into or associated the operation of the Gate.
- (c) Restoration & Replacement in Event of City Storm Drain Repair. Grantee acknowledges that portions of the Walls and Gate are located above a storm drain easement within the Land in favor of the City of Irvine (as identified in Section 2 of the "Subject To" clause on page 2 of this Grant Deed). In the event that, in the course of City's maintenance, repair or replacement of the storm drain beneath the Land, the City removes or damages any portion of the Walls or Gate or any other improvements located above the storm drain easement area, Grantee shall be solely responsible for restoration, replacement and repair of any of such Wall, Gate or other improvements without contribution from City or any homeowners association or any other party. Grantee agrees that it shall cause the Walls, Gate and any other improvements so affected by City's storm drain work to be repaired or replaced as soon as practicable after the damage or removal.

3.6 Approvals.

- (a) Approvals Required. Neither the Facilities, any landscaping required by Section 3.4 above, nor any other landscaping, grading or other improvements for which final improvement plans have not first received the written approval of Grantor, which approval shall not unreasonably be withheld, or which do not comply with the final improvement plans approved by Grantor, shall be made, constructed or installed in, about or on the Land. Grantee agrees that all landscaping and above-ground improvements on the Land shall be designed, constructed and installed in compliance with reasonable requirements imposed by Grantor as to exterior appearance, location, screening and aesthetic features.
- (b) Time for Approvals. Grantor shall approve or disapprove, within thirty (30) days after receipt of two copies thereof: (i) any preliminary design report for changed or added improvements and/or uses delivered to Grantor pursuant to Section 3.3 and (ii) any final improvement plans delivered to Grantor pursuant to Section 3.6(a). If approved, such approval shall be endorsed on such report or plans and one set of such document(s) bearing Grantor's approval shall be returned to Grantee within such thirty (30) day period. If Grantor does not approve such document(s), Grantor shall, within said thirty (30) day period notify Grantee of its reasons for not approving such document(s) and Grantee shall submit a new or revised version of such document(s) for Grantor's approval. If Grantor has not responded within fifteen (15) days after receipt of such document(s), Grantee may at any time thereafter give a notice to Grantor stating that failure to respond within fifteen (15) days of such notice will be deemed approval; failure to approve or disapprove any such document(s) shall be deemed approval thereof sixty (60) days following receipt of such document(s) or fifteen (15) days following receipt of such notice, if given, whichever is earlier. Grantor and Grantee shall both use reasonable efforts to take action required under this Section 3.6 as early as possible within the permitted time period.
- (c) Effect of Approvals. The approval by Grantor of any preliminary design report or final improvement plans pursuant to these CC&Rs shall be approval only as to their conformity with Grantor's aesthetic and architectural design requirements as contained in Grantor's master development plan and general aesthetic and architectural plan for the area; such approval shall not be deemed approval for engineering design nor a representation or warranty by Grantor as to the adequacy or sufficiency of such preliminary design report or final improvement plans or the grading, landscaping, improvements or construction contemplated thereby for any use or purpose except that Grantor's approval or preparation of any plan will constitute Grantor's concurrence that the plan meets the requirements as to aesthetic compatibility set forth in this Section 3.6 applicable to such grading, landscaping, improvements and construction. By approving such preliminary design report or final improvement

plans for the Facilities and landscaping, Grantor assumes no liability or responsibility therefor or for any defect in any grading, landscaping, improvements or construction made pursuant thereto.

- (d) <u>Record Drawings</u>. Upon completion of the grading, landscaping and construction of the Facilities, if Grantor so requests, Grantee shall submit to Grantor a set of record drawings or any portion thereof and/or a copy of the notice of completion recorded by Grantee.
- 3.7 Indemnity. Grantor and any person or entity controlling, controlled by or under common control with Grantor, and each of their respective owners, shareholders, partners, members, divisions, directors, officers, employees, representatives and agents, and each of its and their respective successors and assignees (collectively, the "Indemnitees") shall not be liable for any loss, damage, injury or claim of any kind or character to any person or property (collectively, "Claims") arising from or caused by any one or more of the following:
- (a) the improvement, maintenance, or use of the Land or the Facilities or any portion thereof or interest therein, including, without limitation, any loss, damage, injury or claim arising from and proximately caused by any defect in the design, construction of, or material in the Facilities, any defect in soils or in the preparation of soils or in the design and accomplishment of grading with respect to the Facilities, any act or omission of Grantee or any of its agents, employees, licensees, invitees or contractors, or any other cause whatsoever in connection with Grantee's use of the Land, or Grantee's performance under this Grant Deed, or any other agreement with Grantor relating to the Land;
- (b) the negligence or willful misconduct of Grantee or its employees, agents or representatives in the development, construction, grading or other work performed off the Land by Grantee pursuant to this Grant Deed; and/or
 - (c) the breach by Grantee of any of its obligations under this Grant Deed.

Furthermore, as a material part of the consideration for this Grant Deed, Grantee hereby waives on its behalf all claims and demands against Grantor for any such Claims, and agrees to indemnify, defend and hold harmless the Indemnitees from all loss, liability, damage, costs and expenses, including attorneys' fees (collectively, "Liability") arising from or related to any Claims, whether incurred by or made against any Indemnitee. Notwithstanding anything to the contrary above, no Indemnitee shall be entitled to indemnification under this paragraph with regard to any Liability ultimately established by a court of competent jurisdiction to have been caused by the negligence or willful misconduct of such Indemnitee. Nothing herein or in any other agreement with Grantee related to the Land shall be deemed to require Grantee to indemnify or hold the Indemnitees harmless from any Liability related to the installation, maintenance, repair or use of the rights or improvements by Grantor, The Irvine Company LLC, The Irvine Land Company LLC, or any of their respective successors, assigns or independent contractors pursuant to reservation clauses A and B on the first two pages of this Grant Deed.

3.8 <u>Default and Remedies</u>. In the event of any breach, violation or failure to perform or satisfy any of these CC&Rs which has not been cured within thirty (30) days after written notice from the non-breaching party to the breaching party to do so (or if any such breach or default is not reasonably susceptible of cure within such 30-day period, then if the breaching party has not commenced promptly within the 30-day period and thereafter diligently continued to prosecute such cure to completion), then the non-breaching party at its sole option and discretion may enforce any rights or remedies to which the non-breaching party may be entitled by law or equity, including but not limited to a suit for damages, declaratory relief, specific performance, or injunction. All remedies provided herein or by law or equity shall be cumulative and not exclusive.

No waiver of a breach of any of the CC&Rs and no delay or failure to enforce any of the CC&Rs shall be construed or held to be a waiver of any succeeding or preceding breach of the same or any other of the CC&Rs. No waiver of any breach or default of the breaching party hereunder shall be implied from any omission by the non-breaching party to take any action on account of such breach or default if such breach or default persists or is repeated, and no express waiver shall affect a breach or default other than as specified in said waiver. The consent to or approval of any act by either party requiring the other party's consent or approval shall not be deemed to waive or render unnecessary such consent or approval to or of any subsequent similar acts by such party.

In the event any legal or equitable action or proceeding shall be instituted between Grantor and Grantee to enforce any provision of this Grant Deed, the party prevailing in such action shall be entitled to recover from the losing party all of its costs, including court costs and reasonable attorneys' fees.

3.9 Miscellaneous Provisions.

- (a) <u>Assignment by Grantor</u>. Any of the rights, powers, duties and reservations of Grantor herein may be assigned in writing to any person or entity which evidences in writing its acceptance thereof and its assumption of the duties of Grantor relating thereto. A copy of such assignment, acceptance and assumption shall be delivered to Grantee. Notwithstanding the foregoing, the right to enforce against Grantee the provisions of Sections 3.2, 3.3, 3.4 and 3.5 shall be assigned by Grantor, if at all, only in the entirety and only to a person or entity owning a material part of the Benefitted Property. Such provisions shall not be enforced by any person or entity other than Grantor or an assignee permitted hereunder.
- (b) <u>Termination or Amendment</u>. The CC&Rs may be validly terminated, amended, modified or extended, in whole or in part, only by recordation by the Orange County Recorder of a proper instrument duly executed and acknowledged by Grantor and Grantee to that effect.
- (c) <u>Captions</u>. The captions used herein are for convenience only and are not a part of this Grant Deed and do not in any way limit or amplify the scope of intent of the terms and provisions hereof.
- (d) <u>Invalidity of Provisions</u>. If any provision of this Grant Deed as applied to Grantor or Grantee or to any circumstances shall be adjudged by a court of competent jurisdiction to be void, invalid, illegal or unenforceable for any reason, the same shall in no way affect (to the maximum extent permissible by law) any other provision of this Grant Deed, the application of any such provision under circumstances different from those adjudicated by the court, or the validity or enforceability of the Grant Deed as a whole.
- (e) Notices. All notices, consents, requests, demands and other communications provided for herein shall be in writing and shall be deemed to have been duly given if and when personally served or twenty-four (24) hours after being sent by United States registered or certified mail, return receipt requested, postage prepaid, to the other party at the following respective addresses:

Grantor: Irvine Community Development Company LLC

550 Newport Center Drive Newport Beach, CA 92658-8904 Attention: J. David Conley, Senior Vice President

Copy to: Irvine Community Development Company LLC

550 Newport Center Drive Newport Beach, CA 92658-8904 Attention: General Counsel's Office

Grantee: Irvine Ranch Water District

15600 Sand Canyon Avenue Post Office Box 57000 Irvine, CA 92619-7000 Attention: General Manager

Copy to: Bowie, Arneson, Wiles & Giannone

4920 Campus Drive, Suite A Newport Beach, CA 92660 Attention: Joan C. Arneson

or at such other address as the Grantor or the Grantee may designate to the other in writing.

(f) Application to Grantor. Notwithstanding anything herein contained to the contrary, if Grantor reacquires title to the Land or any portion thereof at any time after the date hereof and record(s) a notice of termination of the CC&Rs, the CC&Rs shall automatically cease and terminate and be of no further force or effect as to Grantor and such property, effective as of the date of such recordation by Grantor, except Grantor's and Grantee's respective obligations, if any, respecting indemnity related to acts or occurrences prior to such reacquisition, which shall survive the reacquisition.

(g) <u>Time of Essence</u>. Time is of the essence of each provision of this Grant Deed in which time is an element.

(h) Acceptance and Recordation. Grantee agrees, by acceptance and recordation of this Grant Deed, that the terms and conditions herein set forth shall be binding upon and inure to the benefit of Grantee.

[Signature Page Follows]

[Signature Page to Grant Deed]

IN WITNESS WHEREOF, the	he undersigned has executed this Grant Deed as of the date written.
DATED:	GRANTOR:
	IRVINE COMMUNITY DEVELOPMENT COMPANY LLC, a Delaware limited liability company
	By: J. David Conley Senior Vice President
	By:

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.
STATE OF CALIFORNIA)
COUNTY OF ORANGE)
On
true and correct.
WITNESS my hand and official seal.
Notary Public (SEAL)
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.
STATE OF CALIFORNIA)
COUNTY OF ORANGE)
On
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.
WITNESS my hand and official seal.
Notary Public
(SEAL)

IRVINE RANCH WATER DISTRICT

CERTIFICATE OF ACCEPTANCE

from IRVINE COMMUNITY DEVEL- IRVINE RANCH WATER DISTRICT, a behalf of the Board of Directors pursuan	roperty conveyed by deed or grant dated
Date:	IRVINE RANCH WATER DISTRICT
	By: Leslie Bonkowski
	Secretary to Board of Directors

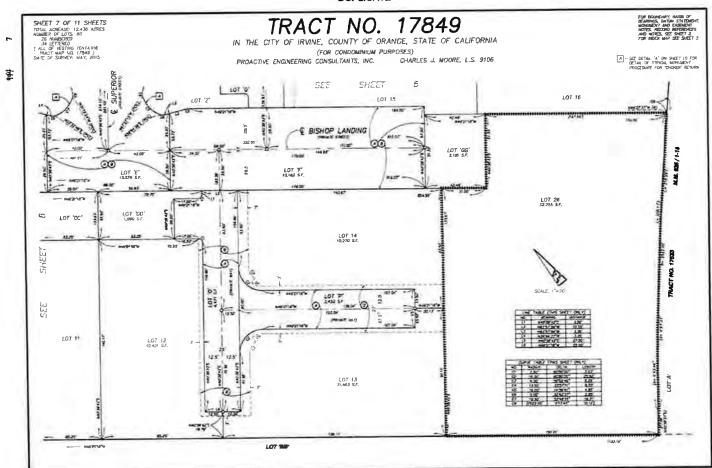
EXHIBIT "A"

Legal Description of the Land

That certain real property in the City of Irvine, County of Orange, State of California, more particularly described as follows:

Lot 26 of Tract No. 17849, as shown on a map filed in Book 944, Pages 1 through 11, inclusive, of Miscellaneous Maps, in the Office of the County Recorder of said County.

EXHIBIT "B"



B - 18

EXHIBIT "C"

Legal Description of Benefitted Property

The properties described below shall constitute the "Benefited Property" for purposes of this Grant Deed, provided that any such property shall cease being part of the "Benefited Property" at such time as fee title to such property ceases to be owned by any of Grantor, The Irvine Company LLC ("TIC"), The Irvine Land Company LLC ("TILC") or any of their respective divisions or affiliates as provided in Section 3.1 of this Grant Deed, entitled "Purpose of CC&Rs."

I. PROPERTIES LOCATED IN CITY OF IRVINE.

Woodbury Town Center

Lot 1 of Tract No. 16755, in the City of Irvine, County of Orange, as shown on a Map filed in Book 866, Pages 12 to 21, inclusive, of Miscellaneous Maps, Records of Orange County, California.

Quail Hill Shopping Center

Lot 3 of Tract No. 16225, in the City of Irvine, County of Orange, as shown on a map filed in Book 829, Pages 1 to 29, inclusive, of Miscellaneous Maps, Records of Orange County, California.

Westpark Plaza

PARCEL A:

Parcel 1 of that certain Lot Line Adjustment No. 86-LL-0044, in the City of Irvine, County of Orange, State of California, recorded May 20, 1987, as Instrument No. 87-282633, Official Records of said Orange County, California, excepting therefrom that portion of said land conveyed to the Orange County Flood Control District by Deed recorded July 29, 1993, as Instrument No. 93-0507180, Official Records of said County.

PARCEL B:

Easements for parking and access over Lot 16 of Tract No. 12355, in the City of Irvine, County of Orange, State of California, as per Map recorded in Book 556, Pages 15 to 36, inclusive, of Miscellaneous Maps, in the Office of the County Recorder of said County, which easements are more particularly set forth in that certain instrument entitled "Declaration as to Access Easements," recorded March 12, 1991, as Instrument No. 91-111920, Official Records of said County.

Harvard Place

Parcel 1, in the City of Irvine, County of Orange, State of California, of Lot Line Adjustment 86-LL-0042, recorded on May 20, 1987, as Instrument No. 87-282634 of Official Records of Orange County.

Retail Center at Culver & Irvine (Northpark Plaza)

Parcel 1 of Parcel Map No. 97-134 in the City of Irvine, County of Orange, as shown on a Map filed in Book 305, Pages 39, 40 and 41 of Parcel Maps, Records of Orange County, California.

West Irvine/The Market Place II

Parcels 1 and 2 of Parcel Map No. 93-204 in the City of Irvine, County of Orange, State of California, as shown on a Map filed in Book 291, Pages 18 to 23 of Parcel Maps, in the Office of the County Recorder of said County.

West Irvine/The Market Place III

All of Parcel Map No. 98-167, in the City of Irvine, County of Orange, as shown on a Map filed in Book 305, Pages 16 to 21, inclusive, of Parcel Maps, Records of Orange County, California.

8. Oak Creek Village Center

Lot 1 of Tract No. 15216, in the City of Irvine, County of Orange, as shown on a Map filed in Book 742, Pages 49 and 50 of Miscellaneous Maps, Records of Orange County, California.

Irvine Spectrum Center

That portion of Lot 292, Block 156 of the Irvine Subdivision in the City of Irvine, County of Orange, State of California, as shown on a Map filed in Book 1, Page 88 of Miscellaneous Maps in the Office of the County Recorder of said County, described as follows:

Beginning at the northwesterly terminus of that certain course in the easterly right-of-way line of Fortune, a public street, shown as "north 41°52'09" west, 512.82 feet" on Parcel Map No. 87-364 filed in Book 241, Pages 14 through 16, inclusive, of Parcel Maps in the Office of the County Recorder of said County, said point also being the beginning of a curve concave easterly, having a radius of 684.00 feet; thence along said right-of-way line of Fortune as shown on said Parcel Map 87-364 and as shown on Parcel Map 87-427 filed in Book 252, Pages 19 through 22, inclusive, of Parcel Maps, Records of said County, the following four (4) courses: (1) northwesterly 413.13 feet along said curve through a central angle of 34°36'21" to the beginning of a compound curve having a radius of 554.00 feet; (2) northwesterly, northerly and northeasterly, 940.45 feet along said compound curve through a central angle of 97°15'48"; (3) east 199.84 feet to the beginning of a curve concave northerly, having a radius of 246.00 feet; (4) easterly, 221.52 feet along said curve through a central angle of 51°35'38"; thence, north 36°24'22" east, 40.68 feet; thence north 78°40'37" east, 34.30 feet to the southwesterly line of that certain land described in a Deed to the State of California recorded on August 13, 1985, as Instrument No. 85-300430, Official Records of said County and as shown on said Parcel Map No. 87-427; thence along said southwesterly line the following two (2) courses: (1) south 53°58'29" east, 50.76 feet; (2) north 36°21'52" east, 104.52 feet; thence leaving said southwesterly line and traversing the interior of said Lot 292 the following fifteen (15) courses: (1) south 46°05'24" east, 49.06 feet; (2) south 31°42'37" east, 89.49 feet; (3) south 47°47'43" west, 62.83 feet; (4) north 42°12'18" west, 5.62 feet to the beginning of a curve concave southeasterly, having a radius of 4.50 feet; (5) westerly, southwesterly, and southerly 7.49 feet along said curve through a central angle of 95°18'46"; (6) south 42°28'56" west, 104.32 feet; (7) south 04°31'29" east, 335.20 feet to the beginning of a non-tangent curve, concave southwesterly, having a radius of 30.73 feet, a radial line through said point bears north 77°35'50" east; (8) southeasterly, 14.23 feet along said curve through a central angle of 26°32'25" to the beginning of a non-tangent curve, concave to the southwest having a radius of 1097.95 feet, a radial line through said point bears south 87°38'31" east; (9) southeasterly, 826.32 feet along said curve through a central angle of 43°07'15" to the beginning of a non-tangent curve concave southwesterly having a radius of 45.63 feet, a radial through said point bears south 46°43'17" east; (10) southeasterly, 8.29 feet along said curve through a central angle of 10°24'41"; (11) non-tangent to said last mentioned curve, south 51°25'42" west, 73.01 feet; (12) south 32°47'46" east, 282.39 feet; (13) south 57°12'14" west, 155.00 feet; (14) south 32°47'46" east, 30.00 feet; (15) south 57°12'14" west, 159.40 feet to the northeasterly right-of-way line of Fortune as shown on said Parcel Map No. 87-364; and the beginning of a non-tangent curve concave southwesterly, having a radius of 346.00 feet, a radial through said point bears south 89°40'51" east; thence along said right-of-way line the following two (2) courses: (1) westerly and northwesterly, 254.77 feet along said curve through a central angle of 42°11'18"; (2) north 41°52'09" west, 512.82 feet to the point of beginning.

Irvine Technology Center

Lots 2 through 15, inclusive, and Lots 17 through 20, inclusive, of Tract No. 15661 in the City of Irvine, County of Orange, State of California, as shown on a Map filed on June 30, 1998, as Instrument No. 19980416848, in Book 770, at Pages 12 through 20, inclusive, of the Official Records of said County.

11. Westpark Village

Lot 16 of Tract No. 12355, in the City of Irvine, County of Orange, State of California, as per map recorded in Book 556, Pages 15 to 36, inclusive, of Miscellaneous Maps, in the Office of the County Recorder of said County.

Crossroads Shopping Center

Parcels 3 through 7, inclusive, and A and B of Parcel Map No. 86-138 recorded in Book 215, Pages 18 through 21, inclusive, of Parcel Maps, Official Records of Orange County, California; and Parcels 1, 2, 8, 9, 10, A, B, C, D and E as shown on Exhibit "A" to that certain Lot Line Adjustment No. 87-LLA-0068 recorded on November 16, 1987 as Instrument No. 87-64803, Official Records of Orange County, California.

Alton Square

Parcel 9, as per map filed in Book 135, Pages 11 to 15, inclusive, of Parcel Maps, Records of Orange County.

Oak Creek Golf Course

Parcels 1, A and B of Parcel Map 94-200 in the City of Irvine, County of Orange, State of California, as shown on a Map filed on February 23, 1996, as Instrument No. 96-0100462, in Book 291 at Pages 28 through 34, inclusive, of the Official Records of said County.

15. University Research Park

PARCEL A:

A leasehold interest in that certain property in the City of Irvine, County of Orange, State of California, described as Parcels 1 through 4, inclusive, as shown on a Map, recorded in Book 173, Pages 17 through 22, inclusive, of Record of Surveys in the Office of the County Recorder of said County, as per the Memoranda of Lease recorded May 5, 1999, as Instrument No. 19990328619 and October 30, 2000, as Instrument Nos. 20000454625, 20000454626 and 20000454627, Official Records of said County.

PARCEL B:

That property described as Parcels 1 to 9, inclusive, of Parcel Map No. 94-160 in the City of Irvine, County of Orange, State of California, as shown on a Map filed on June 14, 1996, as Instrument No. 96-0303310, in Book 293, Pages 6 to 11, inclusive, of Parcel Maps, as modified by Lot Line Adjustment 33324-LL recorded February 25, 1999, as Instrument No. 19990135421, Lot Line Adjustment No. 38355-LL recorded September 15, 1999, as Instrument No. 19990663936, Lot Line Adjustment No. 38615-LL recorded November 8, 1999, as Instrument No. 19990777735, Lot Line Adjustment No. 41522-LL recorded February 23, 2000, as Instrument No. 20000095623, and Lot Line Adjustment No. 43246-LL recorded May 25, 2000, as Instrument No. 200000275182, all of Official Records, Orange County, California.

Orchard Hills Shopping Center

That certain parcel of land situated in the City of Irvine, County of Orange, State of California, being all of Lot 1 of Tract Map No. 17004 recorded on June 12, 2007, as Instrument No. 2007000372942, in Book 891, Pages 1 through 53, inclusive, of Miscellaneous Maps, in the Official Records of Orange County, California.

Orchard Hills Apartments

That certain parcel of land situated in the City of Irvine, County of Orange, State of California, being all of Lot 2 of Tract No. 17004 recorded on June 12, 2007, as Instrument No. 2007000372942, in Book 891, Pages 1 through 53, inclusive, of Miscellaneous Maps, in the Official Records of Orange County, California.

Woodbury East Apartments

Lot 18 of Tract No. 17086, as shown on a map filed in Book 890, Pages 1 to 20, inclusive, of Miscellaneous Maps, Records of Orange County, California.

19. Stonegate Apartments

Lot 18 of Tract No. 17086, as shown on a map filed in Book 890, Pages 1 to 20, inclusive, of Miscellaneous Maps, Records of Orange County, California.

20. The Park Apartments in Irvine Spectrum

Those certain parcels of land situated in the City of Irvine, County of Orange, State of California being all of Parcel Map No. 2006-220 filed in Book 359, Pages 40 through 44, inclusive, of Parcel Maps on file in the offices of the County Recorder of said County, as amended by Parcel Map Certificate of Correction recorded on December 8, 2008, as Instrument No. 2008000563014, Records of Orange County, California.

21. The Village Apartments in Irvine Spectrum

Lot 1, 2 and 3 of Tract 16552 in the City of Irvine, County of Orange, State of California, being a subdivision of Parcels 1 and 2, portions of Irvine Center Drive and Pacifica of Parcel Map No. 90-204 as shown on a map filed in Book 269, Pages 42 – 45, inclusive of Parcel Maps in the offices of the County Recorder of said Orange County.

22. Planning Area 33, City of Irvine

All of that certain real property located in the City of Irvine, County of Orange, State of California, as depicted and shown as Planning Area 33 on Figure A-2 of the Land Use Element of the General Plan of the City of Irvine, dated June 2012, a copy of which is attached as Schedule 1 to this Exhibit.

23. Los Olivos Apartments in Planning Area 39, City of Irvine

Lots 1-14 and Lots A, B, E and F of Tract 17216, as shown on a map filed in Book 908, Pages 17-24, inclusive, of Miscellaneous Maps, records of Orange County, California.

Planning Area 39, City of Irvine

All of that certain real property (other than the Los Olivos Apartments) located in the City of Irvine, County of Orange, State of California, as depicted and shown as Planning Area 39 on Figure A-2 of the Land Use Element of the General Plan of the City of Irvine, dated June 2012, a copy of which is attached as Schedule 1 to this Exhibit.

Cypress Village Apartments

Lots 1, 2, 5, 6 and 7 of Tract 17394, as shown on a map filed in Book 902, pages 33 through 43, inclusive, of Miscellaneous Maps, records of Orange County, California.

Planning Area 40, City of Irvine

All of that certain real property (other than the Cypress Village Apartments described above) located in the City of Irvine, County of Orange, State of California, as depicted and shown as Planning Area 40 on Figure A-2 of the Land Use Element of the General Plan of the City of Irvine, dated June 2012, a copy of which is attached as Schedule 1 to this Exhibit.

Portola Place Apartments

Lot 20 of Tract 16780, as shown on a map filed in Book 867, pages 18 through 30, inclusive, of Miscellaneous Maps, records of Orange County, California.

28. Planning Area 6 City of Irvine

All of that certain real property (other than the Portola Place Apartments described above) located in the City of Irvine, County of Orange, State of California, as depicted and shown as Planning Area 6 on Figure A-2 of the Land Use Element of the General Plan of the City of Irvine, dated June 2012, a copy of which is attached as Schedule 1 to this Exhibit.

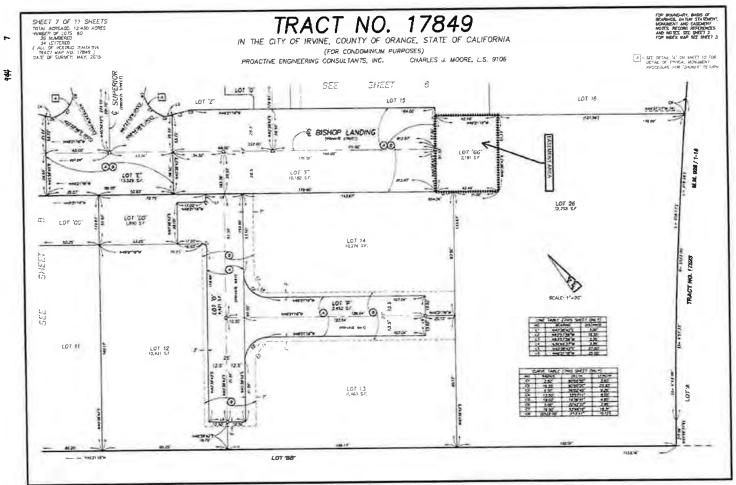
II. OTHER PROPERTIES.

All other property owned by Grantor, TIC, TILC or any of their respective divisions or affiliates in the County of Orange, California, as of the date of recordation of this Grant Deed.

Grantor, TIC or TILC shall have the right by duly recorded amendment(s) to this Grant Deed executed only by any such entity to unilaterally provide further descriptions or depictions (or both) of all or portions of the Benefited Property described above.

Depiction of Easement Area

Exhibit A



JRC\30160-0284/4845-0594-7686 v.3 8/25/2015 (Access Easement to Eastwood Pump Station)

EXHIBIT "2"

Recording Requested by and When Recorded Return to: Irvine Ranch Water District 15600 Sand Canyon Avenue P. O. Box 57000 Irvine, California 92619-7000 Attn: Ray Thatcher, ROW Agent IRWD Doc. E_______ With a conformed copy to: Irvine Community Development Company LLC 550 Newport Center Drive Newport Beach, CA 92660

Attn: General Counsel's Office

ASSESSOR'S PARCEL NO(S).:

551-431-01

FREE RECORDING REQUESTED: Essential to Acquisition By Irvine Ranch Water District Government Code §6103 (SPACE ABOVE THIS LINE FOR RECORDER'S USE)

Exempt from Documentary Transfer Tax per Revenue and Taxation Code §11922

GRANT OF EASEMENT TO IRVINE RANCH WATER DISTRICT BY IRVINE COMMUNITY DEVELOPMENT COMPANY LLC

FOR VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, IRVINE COMMUNITY DEVELOPMENT COMPANY LLC, a Delaware limited liability company ("Owner" herein), hereby grants and conveys to IRVINE RANCH WATER DISTRICT, a California Water District organized under and existing pursuant to Section 34000 et seq. of the California Water Code ("Grantee" herein), a perpetual, non-exclusive easement and right-of-way (the "Easement") for purposes of installation, operation, maintenance and replacement of underground utilities, a gate card reader, and an access driveway (collectively, the "Facilities") and for ingress and egress in, over, upon, through and across the real property in the City of Irvine, County of Orange, State of California, within Lot "GG" of Tract No. 17849, filed in Book 944, Pages 1 through 11 of Miscellaneous Maps, Records of said County, as depicted on Exhibit A, which exhibit is attached hereto and made a part hereof (the "Easement Area"), as necessary in connection with the use, operation and maintenance of the water pump station and related facilities located within Lot 26 of said Tract No. 17849.

SUBJECT TO: Covenants, conditions, restrictions, easements, rights, rights-of-way and encumbrances of record.

Project	PA 5B Water Pump Station - Access and Utility Easement
Title Company	
Title Report No Project Engineer	

Modified FORM A JRC\30160-0284/4845-0594-7686 v.3 8/25/2015 (Access Easement to Eastwood Pump Station) (7-87)

grt00001 doc (Format revised 11/12)

A. Rights of Owner to Use Easement Area:

- 1. Rights of Use. Subject to the provisions of Paragraph A-2 below, it is understood and agreed that the Easement acquired herein is acquired subject to the rights of Owner to use the Easement Area for any purpose whatsoever to the extent that such use does not interfere with Grantee's use of the Easement. Owner retains all rights not inconsistent with the Easement. Such use by Owner shall include, but not be limited to, the compatible use for streets, roadways, parking areas, landscaping, pipelines, fences or block walls, cuts, fills or other structures or other compatible improvements under, upon, over, and across the Easement Area.
- Concurrence of Grantee. Such use by Owner of the Easement Area for landscaping purposes which do not involve the erection of structures or other improvements upon the Easement Area and which are consistent with Grantee's use of the easement may be made without notification to or concurrence of Grantee, except that no trees shall be planted in said Easement Area without the prior written consent of Grantee, which consent shall not be unreasonably withheld, delayed or conditioned. Further, such use by Owner of the Easement Area for roadway improvements, which do not result in cuts closer than three (3) feet above the top of Grantee's Facilities or fills greater than two (2) feet above the existing ground may be made without notification to or concurrence of Grantee. It is agreed, however, that no such use for any other purposes shall be made until (a) plans for such proposed use by Owner have been reviewed with Grantee, and (b) Grantee has concurred that such proposed use will be consistent with Grantee's use of the Facilities. If Grantee fails to respond within fifteen (15) days after receipt of such plans, Owner may at any time thereafter give written notice ("Owner's Notice") to Grantee stating that Grantee's failure to respond within fifteen (15) days of receipt of Owner's Notice will be deemed to constitute Grantee's concurrence with Owner's plans; if Owner's Notice is given, Grantee's failure to provide concurrence or objection in writing to any such proposed use by Owner shall be deemed to constitute Grantee's concurrence fifteen (15) days following Grantee's receipt of Owner's Notice. Grantee agrees that it shall not unreasonably withhold its concurrence with Owner's plans. Owner and Grantee shall each use reasonable efforts to take the actions required under this Paragraph A-2 as early as possible within the specified time period.

B. Arbitration as to Owner's Use:

- 1. Election by Owner. If Grantee objects to a proposed use of the Easement Area by Owner requiring concurrence of Grantee, Owner, within sixty (60) days after receiving written notice of such objection, may elect to submit to arbitration the question as to (i) whether such objection was unreasonable or (ii) whether such proposed use would interfere with the use of the Easement Area by Grantee for the purposes described herein. If through such arbitration it is determined either (a) that such objection was unreasonable or (b) that such proposed use would not interfere with such use by Grantee, such proposed use by the Owner shall be permitted. If the arbitration proceeding results in such proposed use by Owner being permitted, the costs of such proceeding, including, without limitation, reasonable attorneys' fees, whether incurred by Owner or Grantee, shall be borne by Grantee. If the arbitration proceeding results in such proposed use by Owner not being permitted, the costs of such proceeding, including without limitation, reasonable attorneys' fees, whether incurred by Owner or Grantee, shall be borne by Owner.
- 2. Arbitration Procedure. If arbitration is elected pursuant to the foregoing paragraph, each party shall appoint one arbitrator within fifteen (15) days after such election to arbitrate has been made. If within such fifteen (15) day period either party has failed to appoint an arbitrator, the arbitration shall be conducted by the arbitrator appointed by the other party. Within ten (10) days after each party has so appointed an arbitrator, the two arbitrators so appointed shall appoint a third arbitrator. If such two arbitrators have not appointed a third arbitrator within such ten (10) day period, either party hereto may apply to the Superior Court of the County of Orange, State of California, for the

Project	PA 5B Water Pump Station - Access and Utility Easement	_
Title Company		-
Title Report No.		-
Project Engineer		_

appointment of such third arbitrator. Upon arbitrators being appointed as aforementioned, the arbitrators so appointed shall forthwith conduct the arbitration proceedings in accordance with the commercial arbitration rules of the American Arbitration Association then in effect and shall make their award in such proceedings not later than thirty (30) days following the appointment of the arbitrator or arbitrators as aforementioned.

C. Nonliability of Owner:

- Liens. Grantee shall not suffer or permit to be enforced against the Easement Area, or any 1. part thereof, any mechanics', laborers', materialmen's, contractors', subcontractors', or any other liens arising from or any claims for damages arising out of any work of construction or improvement as permitted under this Easement, or any other claim or demand howsoever the same may arise, but Grantee shall pay or cause to be paid all of said liens, claims and demands before any action is brought to enforce the same against the Easement Area; and Grantee hereby indemnifies and agrees to hold Owner and the Easement Area free and harmless from all liability for any and all such liens, claims and demands, together with all costs and expenses, including, but not limited to, attorneys' fees and court costs, whether incurred by or made against Owner in connection therewith; and Owner shall have the right at any time and from time to time to post and maintain on the Easement Area, or any part thereof, such Notices of Nonresponsibility as desired by Owner or as may be allowed by law. Notwithstanding anything to the contrary contained in this paragraph, if Grantee shall in good faith contest the validity of any such lien, claim or demand, then Grantee shall, at its expense, defend itself and Owner against the same and shall pay and satisfy any adverse judgment that may be rendered thereon before the enforcement thereof against Owner or the Easement Area, and if Owner shall require, Grantee shall furnish to Owner a surety bond satisfactory to Owner in an amount equal to such contested lien, claim or demand indemnifying Owner against liability for same, or if Owner shall request, Grantee shall procure and record the bond provided for in the Civil Code of the State of California, or any comparable statute hereafter enacted providing for a bond freeing the Easement Area from the effect of such lien or claim or action thereon.
- Indemnity. To the fullest extent permitted by law, Grantee shall indemnify, defend, protect and hold harmless Owner and any person or entity controlling, controlled by, or under common control with Owner, and each of its and their owners, shareholders, partners, members, divisions, officers, directors, employees, representatives and agents, and all of their respective successors and assigns (collectively, the "Indemnitees") from and against any and all claims, liabilities, losses, damages, actions, proceedings, fines, penalties, violations of law, fees, orders, judgments, costs and expenses (including but not limited to attorneys' fees and costs of proceedings) of any nature whatsoever, whether incurred by or made against Owner (collectively, "Claims"), proximately caused in whole or in part by (a) the willful or negligent act, error or omission, strict liability or statutory liability of Grantee, its employees, independent contractors, agents, representatives or invitees, and any other parties directly or indirectly employed by any of the foregoing or reasonably under the control of any of the foregoing or for whose acts any of the foregoing may be liable (collectively, "Grantee's Representatives"), (b) breach or default of any obligation of Grantee under this Grant of Easement by Grantee or Grantee's Representatives, or (c) the presence of Grantee or Grantee's Representatives at, on or about the Easement Area or any other property of Owner. Notwithstanding the foregoing, Grantee shall have no obligation to indemnify any Indemnitee to the extent that any such Claim is determined by the trier of fact to have been proximately caused by any negligent act or omission or willful misconduct of Owner or the employees, agents or independent contractors of Owner (other than a failure to perform an act for which Grantee, its employees, independent contractors or agents are responsible under this Grant of Easement or applicable law or a failure to correct or to require Grantee to correct a condition created by Grantee, its employees, independent contractors or agents) or by any act or omission for which Owner or the employees, independent contractors or agents of Owner are liable without fault. Payment of any Claim by an Indemnitee shall not be a condition precedent to Grantee's obligations under this paragraph.

D. Grantee to Repair Damage:

Project	PA 5B Water Pump Station - Access and Utility Easement
Title Company	
Title Report No.	
Project Engineer	

- Repair Obligations. Grantee shall at its sole expense repair to the original functioning state or replace all those improvements or other things, including without limitation, streets, alleys, roadways, landscaping and other growing things, sidewalks, fences, pipelines and conduits upon, under, over, across or along the Easement Area which are existing at the date hereof or which are installed or planted in accordance with the provisions of this Grant of Easement subsequent to the date hereof and which are in any manner whatsoever damaged or removed in connection with the exercise by Grantee of the rights herein granted; provided, however, that the obligation to repair and replace subsequently installed improvements and other things in those portions of the Easement Area which are located outside of the dedicated public right-of-way shall be limited to standard paved driving surfaces and parking lots, sidewalks, fences, pipelines, conduits, signs, turf, ground cover and other landscaping with irrigation systems, and other similar improvements, and shall specifically exclude (unless otherwise provided in Paragraph H below) trees and shrubs, block walls, mechanical structures and exotic or extraordinary landscaping or improvements. With respect to Grantee's replacement of subsequently installed trees and shrubs within the dedicated public right-of-way, Grantee agrees to replace trees with the same variety and approximate size where practical up to and including the standard size of tree planted in a 36" box, and to replace shrubs with the same variety and approximate size where practical up to and including the standard size of shrub planted in a 5-gallon size container. The standard size tree planted in a 36" box will be the maximum size replacement tree required in any case, and the standard size shrub planted in a 5-gallon container will be the maximum size replacement shrub required in any case.
- 2. <u>Completion of Repairs</u>. Any such repair or replacement to be accomplished at Grantee's expense as hereinabove provided shall be accomplished promptly following completion of the efforts of Grantee causing the damage or removal. To the extent such repair or replacement as herein required to be made at Grantee's expense has not been completed within sixty (60) days following notice with respect thereto from Owner, Owner may enter upon the Easement Area, accomplish such repair or replacement and the cost thereof shall thereafter be payable by Grantee to Owner within thirty (30) days following the rendering of a statement therefor to Grantee and such amount shall bear interest at the rate of ten percent (10%) per annum until fully paid.

E. Relocation at Owner's Expense:

If Owner in its good faith judgment determines that said Facilities interfere with the development of the Easement Area by Owner, then Grantee will, within one hundred twenty (120) consecutive calendar days after the receipt from Owner of a notice in writing to do so, relocate said Facilities or portions thereof at the sole expense of Owner and at no expense to Grantee; provided, however, said obligation to relocate at the expense of Owner shall be conditioned upon the furnishing by Owner to Grantee of a good and sufficient permanent grant of easement in a feasible location, which grant of easement shall be in a form identical to this Grant of Easement. This right to cause the Easement Area to be relocated at the expense of Owner may be exercised as many times as Owner shall elect.

F. Successors and Assigns:

This Grant of Easement shall be binding upon and inure to the benefit of the successors and assigns of Owner and Grantee.

G. Acceptance and Recordation:

Grantee agrees, by acceptance and recordation of this Grant of Easement from Owner, that the terms and conditions herein set forth shall be binding upon and inure to the benefit of Grantee.

Project	PA 5B Water Pump Station - Access and Utility Easement
Title Company Title Report No.	
Project Engineer	

H. <u>Modifications</u>:

The following additions or changes are hereby made to the above provisions of this Grant of Easement (if there are none, state "none"):

- Grantee shall not install any above-ground Facilities within the Easement Area unless the
 plans therefor have previously been reviewed and approved by Owner, which approval shall not
 be unreasonably withheld.
- 2. The second sentence of Paragraph A(2), relating to use by Owner of the Easement Area for roadway improvements, is deleted.

I. Notices:

All notices, consents, requests, demands and other communications provided for herein shall be in writing and shall be deemed to have been duly given if and when personally delivered, on the date of delivery by courier or reputable overnight delivery service, or forty-eight (48) hours after being sent by United States registered or certified mail, return receipt requested, postage prepaid, to the other party at the following respective addresses:

Owner: Irvine Community Development Company LLC

550 Newport Center Drive Newport Beach, CA 92658-8904

Attention: Vice President, Community Development

Copy to: Irvine Community Development Company LLC

550 Newport Center Drive Newport Beach, CA 92658-8904 Attention: General Counsel's Office

Grantee: Irvine Ranch Water District

15600 Sand Canyon Avenue Post Office Box 57000 Irvine, CA 92619-7000 Attention: General Manager

Copy to: Bowie, Arneson, Wiles & Giannone

4920 Campus Drive, Suite A Newport Beach, CA 92660 Attention: Joan C. Arneson

or at such other address as Owner or Grantee may designate to the other in writing.

[signatures on next page]

Project	PA 5B Water Pump Station - Access and Utility Easement
Title Company	
Title Report No.	
Project Engineer	

	, 20	"Ow	ner"	
			INE COMMUNITY DEVELOPMENT A Delaware limited liability compares	
		Ву_	J. David Conley Senior Vice President	
		Ву	Jamie Yoshida Assistant Secretary	
oject	PA SR Water Pu	mp Station - Access ar	nd Utility Easement	

ACKNOWLEDGMENTS

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

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WITNESS my hand and official se	eal.	
		Notary Public
(SEAL)		
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Modified FORM A JRC\30160-0284/4845-0594-7686 v.3 8/25/2015 (Access Easement to Eastwood Pump Station) (7-87)

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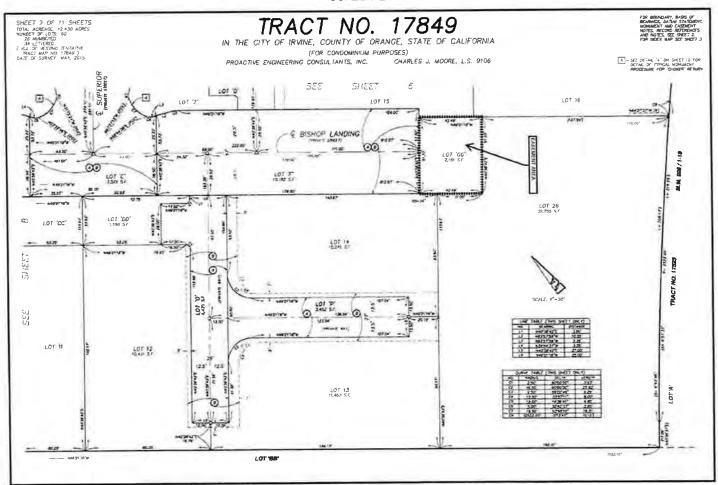
IRVINE RANCH WATER DISTRICT

CERTIFICATE OF ACCEPTANCE

This is to certify that the interest in real property conveyed by deed or grant dated		
Date:	IRVINE RANCH WATER DISTRICT	
	By: Leslie Bonkowski Secretary to Board of Directors	
	The state of the s	
Title Company	PA 5B Water Pump Station - Access and Utility Easement	
Title Report No.		

Depiction of Easement Area

Exhibit A



JRC\30160-0284/4845-0594-7686 v.3 8/25/2015 (Access Easement to Eastwood Pump Station)

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EXHIBIT "C"

CONVEYANCE AGREEMENT

(HIDDEN CANYON BOOSTER PUMP STATIONS, P.R. No. 10446 AND 30446)

THE CONT	EYANCE AGREEMENT ("Agreement") is made as of
by and batween THE	RVINE LAND COMPANY LLC, a Delaware limited liability company, ("Transferor"), and TER DISTRICT, a California water district organized under Division 13 of the California
Co accept from Transfer Transferor, shown an shall cause the follow	veyance. Upon all the terms and conditions contained herein, Transferee hereby agrees to r and Transferor agrees to convey to Transferee the parcel of real property now owned by described on EXHIBIT "1" (the "Land") situated in Orange County, California. Transferee ng listed documents ("Conveyance Documents") to be recorded upon its receipt of this inveyance Documents, duly executed by Transferor
(a)	Grant Deed (the "Grant Deed") (EXHIBIT "1");
Transferee shall, in a	sideration. As consideration for Transferor's conveyance of the Land to Transferee, dition to performing all of its obligations under this Agreement, concurrently with execution licate, by proper execution of a certificate of acceptance, its acceptance of the Conveyance by Transferor. The Grant Deed contains certain obligations and restrictions on the use and and.
3. <u>Co</u>	s and Prorations.
elects to obtain in co	Closing Costs. Transferee shall bear the cost of any title insurance policy which Transferee nection with its acquisition of the Land. Transferee and Transferor shall each bear their own counting costs, if any, in connection with the conveyance of the Land. All recording costs transferee. All other costs or expenses not otherwise provided for in this Agreement shall be debetween Transferee and Transferor in the manner customary in Orange County, Californ
(b)	Taxes.
separately assessed a	(i) Separate Assessment. Transferee shall have the right to have the Land and removed from the real property tax roll effective on the date of acquisition of the Land by
California Revenue Land removed from that portion of the tabeen paid by Transfi payment made unco parties to be erroned Transferor shall have or Treasurer for refu 5096.7. All current	(ii) Existing Taxes. Transferee and Transferor shall cooperate in good faith to cately assessed and segregated in Transferee's name on the current tax roll, as provided in and Taxation Code Section 2801, et seq., and Transferee shall have the right to apply to have the real property tax roll and to have the county tax collector cancel any taxes applicable to fiscal year which begins on the date of acquisition of the Land by Transferee. If taxes have to applicable to the portion of the tax fiscal year after acquisition by Transferee, such tax ectible by this paragraph and Revenue and Taxation Code 4986 shall be deemed between the saly collected pursuant to Revenue and Taxation Code Sections 5086 and 5096.7 and the the right, after the date of acquisition, to apply to the Orange County Auditor, Tax Collector do of such taxes which may be due Transferor pursuant to Revenue and Taxation Code Section roperty taxes and all general and special bonds and assessments shall be prorated between feror as of the date of recordation of the Grant Deed, based upon the latest available tax led by Transferor, using customary procedures, without regard to any subsequent

reassessments.

- the Land separately assessed and removed from the tax rolls, this paragraph shall apply. Any taxes or assessments levied with respect to the Land under the Supplemental Tax Roll as a result of this conveyance, whether prior to the normal assessment date or otherwise, shall be the sole responsibility of Transferee. Should the Land be part of a larger tax parcel which as of the date of recordation of the Grant Deeds remains unsegregated on the Orange County Tax Assessor's rolls for the coming fiscal tax year, then Transferor at its option may either (i) charge Transferee and credit itself for the percentage of taxes and assessments as regards the Land on an acreage basis compared to acreage for the entire tax parcel, which percentage figure or formula for allocation shall be supplied by Transferor (and Transferee's approval is not required with regard thereto), or (ii) charge Transferee after recordation of the Grant Deeds with that portion of said taxes actually affecting the land. In the event of any such charge to and payment from Transferee, Transferor shall make payment prior to delinquency of all property taxes and assessments for the current fiscal year on the entire parcel of which the Land is a part; and Transferee shall deliver to Transferor within thirty (30) days of Transferor's demand an amount equal to any additional or supplemental taxes, assessments and reassessments attributable to the Land as imposed by the County Tax Assessor.
- (iv) <u>Assessments and Special Taxes</u>. The foregoing notwithstanding, Transferor represents that with respect to any assessment district or community facilities district within which the Land or any portion thereof has been included prior to the date hereof, to the extent permitted by law, the Land is exempt or otherwise excluded from any assessment, assessment lien, or special tax obligation. Except as otherwise required by law, no assessment, assessment lien or special tax obligation may be imposed on the Land after the date hereof without Transferee's express written consent.
- 4. <u>Transferee Representations and Obligations</u>. In addition to its obligations under other provisions of this Agreement, Transferee represents and warrants to Transferor, and hereby acknowledges and agrees as follows:
- has made or will make such independent investigations as Transferee deems necessary or appropriate concerning: the suitability for Transferee's proposed uses of the Land, including but not limited to any desired investigations or analyses of present or future laws, statutes, rules, regulations or ordinances (collectively "Regulations"), and the necessity or availability of any governmental permits, approvals or acts (collectively, the "Permits"); any surface, soil, subsoil, geologic or ground water conditions or other physical conditions of or affecting the Land; the extent or condition of title to the Land; and all other matters concerning the condition or Transferee's proposed use of the Land. Transferee is relying solely upon its own inspection, investigation and analyses of the foregoing matters in entering into this Agreement and is not relying in any way upon any representations, statements, agreements, warranties, studies, reports, descriptions, guidelines or other information or material furnished by Transferor or its representatives, whether oral or written, express or implied, of any nature whatsoever regarding any such matters. Transferee will acquire the Land "AS IS," in its present state and condition, without representation by Transferor or its representatives as to any matter, whether or not expressly mentioned herein.
- (b) <u>Grading.</u> Transferee hereby agrees to, at its sole cost, perform all remedial work on the Land necessary for installation of the intended facilities and remove all excess soil, rock and other materials generated from the grading and improvement of the Land.
- (c) <u>Site Plan and Coordination</u>. Transferee agrees to deliver to Transferor for its approval a site plan for Transferee's installation of improvements upon the Land, which plan shall set forth the configuration, location, grade, elevation and exterior materials and colors of the above-ground portions of any improvements (the "Site Plan"). Transferee shall obtain Transferor's final approval of the Site Plan prior to the installation of the proposed improvements on the Land.
- (d) No Assignment. Transferee shall not assign its rights and interest under this Agreement to any person or entity, except another governmental entity providing the same type of service as provided by Transferee by means of the Facilities to the surrounding subdivision, without providing Transferor a right of first

offer to be exercised within fourteen (14) days from the date Transferee notifies Transferor of the price and material terms upon which it is willing to sell or assign. Any such attempted sale or assignment made in violation of this provision shall be null and void.

- 5. <u>Mutual Representations and Warranties</u>. In addition to all other representations and warranties, if any, made in this Agreement, each party represents and warrants to the other as follows:
- (a) <u>Due Authorization</u>. The execution of this Agreement by it, its delivery to the other party pursuant hereto, and the performance of its obligations under this Agreement have been duly authorized by its Board of Directors and no further act or other authority is necessary on its part for such execution, delivery and consummation.
- (b) No Violation. The execution, delivery, performance of and compliance with this Agreement has not resulted and will not result in any violation of, conflict with, or default under, any mortgage, indenture, contract, agreement, instrument, franchise, permit, judgment, decree, order, statute, rule or regulation applicable to it.
- (c) <u>No Action or Proceedings</u>. There is no suit, action or legal, administrative, arbitration or other proceeding or investigation pending or, to the knowledge of such party, threatened which affects its ability to perform its obligations hereunder or under the Grant Deed.
- (d) <u>Sale in Lieu of Condemnation</u>. Transferee has, through an action of its Board of Directors, duly adopted a resolution with regard to the acquisition of the Land by eminent domain proceedings or negotiated acquisition in lieu of eminent domain.
- 6. Further Documents and Acts. Each of the parties hereto agrees to cooperate in good faith with each other, and to execute and deliver such further documents and perform such other acts as may be reasonably necessary or appropriate to consummate and carry into effect the transactions contemplated under this Agreement.

Miscellaneous.

- (a) <u>Survivability</u>. All Covenants of Transferee or Transferor which are expressly intended hereunder to be performed in whole or in part after recordation of the Grant Deed, and all representations, warranties and indemnities by either party to the other, shall survive recordation of the Grant Deed and be binding upon and inure to the benefit of the respective parties hereto and their respective heirs, successors and permitted assigns. Any agreements, understandings, warranties or representations not expressly contained herein shall in no way bind either Transferor or Transferee. Transferor and Transferee each expressly waives any right of rescission and all claims for damages by reason of any statement, representation, warranty, promise and/or agreement, if any, not contained in or attached to this Agreement.
- writing any portion of this Agreement or any breach thereof, but no such waiver shall constitute a further or continuing waiver of any preceding or succeeding breach of the same or any other provision. A waiving party may at any time thereafter require further compliance by the other party with any provision so waived. The consent by one party to any act by the other for which such consent was required shall not be deemed to imply consent or waiver of the necessity of obtaining such consent for the same or any similar acts in the future. No waiver or consent shall be implied from silence or any failure of a party to act, except as otherwise specified in this Agreement. Except as otherwise specified in this Agreement, (i) all rights, remedies, undertakings, obligations, options, covenants, conditions and agreements contained in this Agreement shall be cumulative and no one of them shall be exclusive of any other, and (ii) either party may pursue any one or more of its rights, options or remedies

hereunder or may seek damages or specific performance in the event of the other party's breach hereunder, or may pursue any other remedy at law or equity, whether or not stated in this Agreement.

- (c) <u>Attorneys' Fees</u>. In the event any declaratory or other legal or equitable action is instituted between Transferor and Transferee in connection with this Agreement, then the prevailing party shall be entitled to recover from the losing party all of its costs and expenses, including court costs and reasonable attorneys' fees.
- (d) Notices. Any notice, request, demand, consent, approval or other communication required or permitted hereunder or by law shall be validly given or made only if in writing and delivered in person to an officer or duly authorized representative of the other party or by United States mail, duly certified or registered (return receipt requested), postage prepaid, and addressed to the party for whom intended, as follows:

If to Transferor: The Irvine Company

550 Newport Center Drive

P.O. Box I

Newport Beach, CA 92658-8904

Attention: Senior Vice President, Community Development

With a copy to: The Irvine Company

550 Newport Center Drive

P.O. Box I

Newport Beach, CA 92658-8904 Attention: General Counsel

If to Transferee: Irvine Ranch Water District

15600 Sand Canyon Avenue

P.O. Box 57000

Irvine, CA 92619-7000 Attention: General Manager

With a copy to: Bowie, Arneson, Wiles & Giannone

4920 Campus Drive, Suite A Newport Beach, CA 92660 Attention: Joan C. Arneson

Any party may from time to time, by written notice to the other as provided above, designate a different address which shall be substituted for that specified above. If any notice or other document is sent by mail as aforesaid, the same shall be deemed served or delivered seventy-two (72) hours after mailing thereof as above specified.

- (e) <u>Gender and Number</u>. In this Agreement (unless the context requires otherwise), the masculine, feminine and neuter genders and the singular and the plural shall be deemed to include one another, as appropriate.
- (f) Entire Agreement. This Agreement and its exhibits constitute the entire agreement between the parties hereto pertaining to the subject matter hereof, and the final, complete and exclusive expression of the terms and conditions thereof. All prior agreements, representations, negotiations and understandings of the parties hereto, oral or written, express or implied, are hereby superseded and merged herein.
- (g) <u>Captions</u>. The captions used herein are for convenience only and are not a part of this Agreement and do not in any way limit or amplify the terms and provisions hereof.

ereto have been negotiated laws of the State of
s applied to either party or the tenforceable for any reason, rovision of this Agreement, ted by the court, or the
on contained in this e and Transferor.
reement may be executed in gether shall constitute but
ein by this reference.
date first above written.
:
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nager

EXHIBIT "1"

Recording Requested by and Return to:

Ray Thatcher, R/W Agent Irvine Ranch Water District 15600 Sand Canyon Avenue P. O. Box 57000 Irvine, California 92619-7000 IRWD Doc. D0229

ASSESSOR'S PARCEL NO:

por. 588-021-58
MAIL TAX STATEMENTS TO ABOVE ADDRESS

SPACE ABOVE THIS LINE FOR RECORDER'S USE

DOCUMENTARY TRANSFER TAX \$ None - Tax Exempt

Computed on full value of property conveyed:
Computed on full value less the value of liens or
Encumbrances thereon remaining at time of sale

FREE RECORDING REQUESTED -- Essential to acquisition by Irvine Ranch Water District (Government Code §6103)

GRANT DEED (HIDDEN CANYON BOOSTER PUMP STATIONS, PR NO. 10446 AND 30446)

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, THE IRVINE LAND COMPANY LLC, a Delaware limited liability company ("Grantor"), hereby grants to IRVINE RANCH WATER DISTRICT, a California water district organized under Division 13 of the California Water Code ("Grantee"), the following described real property (the "Land") in the County of Orange, State of California:

That certain real property described on Exhibit "A" and depicted on Exhibit "B", which exhibits are attached hereto and incorporated herein by this reference.

Excepting from the Land, all oil, mineral and other related rights as reserved in favor of THE IRVINE COMPANY, a Delaware corporation, its successors and assigns, in that certain deed recorded on November 30, 2005, as Instrument No. 2005000953645 in the Official Records of Orange County, California.

SUBJECT TO:

- 1. General and special taxes and assessments for the current fiscal tax year and any and all non-delinquent bonds and/or assessments;
- 2. All other covenants, conditions, restrictions, reservations, rights, rights-of-way, easements, dedications, offers of dedications and other matters of record or apparent.
- The following covenants, conditions, rights and restrictions (collectively "CC&Rs"), which shall remain in effect in perpetuity unless sooner terminated or modified as hereinafter provided.

6006BPSGD.docx

- 3.1 Purpose of CC&Rs. Grantor is the owner and developer of a large and unique landholding in Orange County, California, of which the Land is a part, and Grantor is engaged in master-planning said landholding. The limitations on Grantee's use of the Land pursuant to the terms of this Grant Deed are an integral part of Grantor's master plan for its landholding and shall benefit other land owned by Grantor or its affiliates and more particularly described on Exhibit "C" attached hereto (the "Benefitted Property"). Grantee's construction, maintenance and operation of domestic and recycled water booster pump station facilities on the Land are needed to enable Grantor to develop a portion of the landholding. The CC&Rs shall run and pass with each and every portion of the Land and shall be binding upon Grantee, its successors and assigns and shall be enforceable, subject to Section 3.8(a) below, by Grantor and its successors and assigns.
- 3.2 <u>Use Restrictions.</u> The Land is conveyed subject to the restriction and requirement that said Land shall be used solely for the purpose of construction, maintenance and operation of <u>domestic and recycled water booster pump station</u> facilities with the necessary transmission, vaults and valve structures and any other facilities associated therewith or incidental thereto, including, but not limited to, parking lot, drains, retaining walls and radio telemetry equipment associated with operation of such facilities (collectively, the "Facilities").

3.3. <u>Installation of Facilities</u>.

(b) Grading. Prior to the commencement of any grading or similar work on the Land, Grantee shall submit to Grantor for its approval (as set forth in Section 3.5) two sets of plans and specifications for grading, terracing and filling of the Land and for construction of other similar improvements in, on or about the Land.

(c) <u>Construction</u>. Prior to the commencement of construction of the Facilities, Grantee shall submit to Grantor for its approval (as set forth in Section 3.5) two sets of construction plans and specifications therefor, including but not limited to two sets of plot plans showing the proposed configuration, location, grade and elevation of the Facilities and all utility and service connections thereto. Such plans and specifications shall be consistent with the applicable preliminary design report previously submitted to Grantor by Grantee and approved by Grantor. As soon as practicable after the date of recordation of this Grant Deed, and subject to availability of reasonable access to the Land, Grantee shall construct and install the Facilities in accordance with plans and specifications approved in writing by Grantor.

(d) Approval of Changed or Added Improvements or Uses.

(i) Definitions.

(A) "Type A Improvements and Uses" shall mean (aa) improvements (other than the Facilities) and/or uses which are functionally consistent with sound utility engineering practices regarding, and functionally related to, Grantee's provision of water, sewer and reclaimed water services, including but not limited to any single family residence determined by Grantee to be necessary to provide on site living accommodations for a caretaker or operator for Grantee's other permitted facilities located on the Land, and

(bb) electrical generating facilities located in a building on the Land (which building is either included within the Facilities or otherwise satisfies the criteria of this section), which operate off of excess water pressure or flow.

(other than the Facilities) and/or uses which are under the control of and used solely by Grantee and its employees, but which are not Type A Improvements and Uses. By way of example only, Type B Improvements and Uses would include (aa) an old residence of historical value which is being stored by Grantee for the benefit of the community, or (bb) a recreational/picnic area used solely by Grantee's employees and their guests.

(C) "Type C Improvements and Uses" shall mean all improvements (other than the Facilities) and/or uses which are not Type A or Type B Improvements and Uses.

(D) "Aesthetic Standards" shall be deemed satisfied if the improvements and/or uses (aa) are visually and aesthetically in harmony and conformity with other existing or proposed improvements in the vicinity of the Land, (bb) do not produce direct lighting which is not shielded or confined within the boundaries of the Land, (cc) do not emit odors, noxious, caustic or corrosive matter, and (dd) do not block views from existing or proposed improvements in the vicinity of the Land.

(E) "Compatibility Standards" shall be deemed satisfied if the improvements and/or uses (aa) are of the same character (both in appearance and type of activity) as the improvements and uses in the vicinity of the Land, (bb) are consistent with accepted land use planning criteria for a planned use community, (cc) are consistent with the master utility and circulation plans of Grantor and the city or county in which the Land is located, (dd) do not (except on a temporary basis during construction or repair activities) produce any vibration, noise, sound or disturbance that is objectionable due to intermittence, heat, frequency, shrillness or loudness, (ee) do not cause a risk, either actual or evidenced by a demonstrated reduction in market value of properties or by a documented controversy in the medical or scientific communities, of health problems or injury to residents or occupants of other existing or proposed improvements in the vicinity of the Land (such as a hazardous or toxic materials collection site).

(F) "Commercial Standards" shall be deemed satisfied if the improvements and/or uses (aa) do not compete with any commercial enterprise of Grantor in the vicinity of the Land, including but not limited to the business of any lessee of land or building space or other facilities leased from Grantor, and (bb) comply with the zoning requirements of the city or county in which the Land is located.

improvements in the vicinity of the Land" shall mean those improvements to be located in the vicinity of the Land regarding which Grantor has, at the time the standards are being applied, (aa) applied for or received entitlement (zoning, general plan amendment, specific plan or tentative tract or subdivision map) from the city or county in which the Land is located and (bb) established for dissemination to the governmental agency having jurisdiction or potential purchasers or developers design guidelines or architectural criteria for future development. If the criteria in (aa) and (bb) are not satisfied, then the "proposed improvements in the vicinity of the Land" shall be deemed to be improvements of a nature and appearance substantially similar to the development located in the service area regarding which Grantee provides water service and identified by Grantor as the development most likely to be representative of future development in the vicinity of the Land.

(ii) Approval of Changed or Added Uses or Improvements. Notwithstanding any other provision of this Grant Deed to the contrary, Grantor and Grantee agree that it shall be reasonable for Grantor to disapprove any proposed changed or added improvements and/or uses unless:

(A) Type A Improvements and Uses have satisfied the Aesthetic

Standards;

(B) Type B Improvements and Uses have satisfied the Aesthetic Standards and the Compatibility Standards; and

(C) Type C Improvements and Uses have satisfied the Aesthetic Standards and the Compatibility Standards and the Commercial Standards.

3.4 Landscaping. [Intentionally deleted.]

3.5 Approvals.

- (a) Approvals Required. Neither the Facilities, the landscaping required by Section 3.4 above, nor any other landscaping, grading or other improvements for which final improvement plans have not first received the written approval of Grantor, which approval shall not unreasonably be withheld, or which do not comply with the final improvement plans approved by Grantor, shall be made, constructed or installed in, about or on the Land. Grantee agrees that all landscaping and above ground improvements on the Land shall be designed, constructed and installed in compliance with reasonable requirements imposed by Grantor as to exterior appearance, location, screening and aesthetic features.
- (b) Time for Approvals. Grantor shall approve or disapprove, within thirty (30) days after receipt of two copies thereof: (i) any preliminary design report for changed or added improvements and/or uses delivered to Grantor pursuant to Section 3.5 (a). If approved, such approval shall be endorsed on such report or plans and one set of such document(s) bearing Grantor's approval shall be returned to Grantee within such thirty (30) day period. If Grantor does not approve such document(s), Grantor shall, within said thirty (30) day period notify Grantee of its reasons for not approving such document(s) and Grantee shall submit a new or revised version of such document(s) for Grantor's approval. If Grantor has not responded within fifteen (15) days after receipt of such document(s), Grantee may at any time thereafter give a notice to Grantor stating that failure to respond within fifteen (15) days of such notice will be deemed approval; failure to approve or disapprove any such document(s) shall be deemed approval thereof sixty (60) days following receipt of such document(s) or fifteen (15) days following receipt of such notice, if given, whichever is earlier. Grantor and Grantee shall both use reasonable efforts to take action required under this Section 3.5 as early as possible within the permitted time period.
- (c) Effect of Approvals. The approval by Grantor of any preliminary design report or final improvement plans pursuant to these CC&Rs shall be approval only as to their conformity with Grantor's aesthetic and architectural design requirements as contained in Grantor's master development plan and general aesthetic and architectural plan for the area; such approval shall not be deemed approval for engineering design nor a representation or warranty by Grantor as to the adequacy or sufficiency of such preliminary design report or final improvement plans or the grading, landscaping, improvements or construction contemplated thereby for any use or purpose except that Grantor's approval or preparation of any plan will constitute Grantor's concurrence that the plan meets the requirements as to aesthetic compatibility set forth in this Section 3.5 applicable to such grading, landscaping, improvements and construction. By approving such preliminary design report or final improvement plans for the Facilities and landscaping, Grantor assumes no liability or responsibility therefor or for any defect in any grading, landscaping, improvements or construction made pursuant thereto.
- (d) <u>Record Drawings</u>. Upon completion of the grading, landscaping and construction of the Facilities, if Grantor so requests, Grantee shall submit to Grantor a set of record drawings or any portion thereof and/or a copy of the notice of completion recorded by Grantee.
- 3.6 <u>Indemnity</u>. Grantor and Grantor's past and present employees, officers, directors, shareholders, agents and representatives and its and their respective successors and assignees, as well as Grantor's subsidiaries, divisions and affiliates, as well as any person or entity controlling, controlled by or under common control with any such entities (collectively, the "Indemnitees") shall not be liable for any loss, damage, injury or claim of any kind or character to any person or property arising from or caused by any one or more of the following:
- (a) the improvement, maintenance, or use of the Land or the Facilities or any portion thereof or interest therein, including, without limitation, any loss, damage, injury or claim arising from and proximately caused by any defect in the design, construction of, or material in the Facilities, any defect in soils or in the preparation of soils or in the design and accomplishment of grading with respect to the Facilities, any act or omission of Grantee or any of its agents, employees, licensees, invitees or contractors, or any other cause whatsoever in connection with Grantee's use of the Land, or Grantee's performance under this Grant Deed, or any other agreement with Grantor relating to the Land,
- (b) the negligence or willful misconduct of Grantee or its employees, agents or representatives in the development, construction, grading or other work performed off the Land by Grantee pursuant to this Grant Deed, or
 - (c) the breach by Grantee of any of its obligations under this Grant Deed.

Furthermore, as a material part of the consideration for this Grant Deed, Grantee hereby waives on its behalf all claims and demands against Grantor for any such loss, damage, or injury of Grantee, and agrees to indemnify, defend and hold harmless the Indemnitees from all loss, liability, damage, costs and expenses (including attorneys' fees) arising from or related to any such loss, damage, injury or claims, whether incurred or made by Grantee or any other person(s). Notwithstanding anything to the contrary above, no Indemnitee shall be entitled to indemnification under this paragraph with regard to any loss, damage, injury or claim ultimately established by a court of competent jurisdiction to have been caused by the negligence or willful misconduct of such Indemnitee. Grantee's covenants in this Section arising from or related to acts or occurrences during the time of Grantee's ownership shall survive the lease or other conveyance of all or any part of the Land or improvements thereon. Nothing herein or in any other agreement with Grantee related to the Land shall be deemed to require Grantee to indemnify or hold the Indemnitees harmless from any claims related to the installation, maintenance, repair or use of the rights or improvements by Grantor, its successors or assigns pursuant to reservation clause A above.

3.7 <u>Default and Remedies.</u> In the event of any breach, violation or failure to perform or satisfy any of these CC&Rs which has not been cured within thirty (30) days after written notice from the non-breaching party to the breaching party to do so (or if any such breach or default is not reasonably susceptible of cure within such 30-day period, then if the breaching party has not commenced promptly within the 30-day period and thereafter diligently continued to prosecute such cure to completion), then the non-breaching party at its sole option and discretion may enforce any rights or remedies to which the non-breaching party may be entitled by law or equity, including but not limited to a suit for damages, declaratory relief, specific performance, or injunction. All remedies provided herein or by law or equity shall be cumulative and not exclusive.

No waiver of a breach of any of the CC&Rs and no delay or failure to enforce any of the CC&Rs shall be construed or held to be a waiver of any succeeding or preceding breach of the same or any other of the CC&Rs. No waiver of any breach or default of the breaching party hereunder shall be implied from any omission by the non-breaching party to take any action on account of such breach or default if such breach or default persists or is repeated, and no express waiver shall affect a breach or default other than as specified in said waiver. The consent to or approval of any act by either party requiring the other party's consent or approval shall not be deemed to waive or render unnecessary such consent or approval to or of any subsequent similar acts by such party.

In the event any legal or equitable action or proceeding shall be instituted between Grantor and Grantee to enforce any provision of this Grant Deed, the party prevailing in such action shall be entitled to recover from the losing party all of its costs, including court costs and reasonable attorneys' fees.

3.8 Miscellaneous Provisions.

- (a) Assignment by Grantor. Any of the rights, powers, duties and reservations of Grantor herein may be assigned in writing to any person or entity which evidences in writing its acceptance thereof and its assumption of the duties of Grantor relating thereto. A copy of such assignment, acceptance and assumption shall be delivered to Grantee. Notwithstanding the foregoing, the right to enforce against Grantee the provisions of Sections 3.2, 3.3 and 3.4 shall be assigned by Grantor, if at all, only in the entirety and only to a person or entity owning a material part of the Benefitted Property. Such provisions shall not be enforced by any person or entity other than (i) Grantor, (ii) any affiliate of Grantor that succeeds to, or is assigned, the remaining assets of Grantor if Grantor is dissolved, or (iii) an assignee permitted hereunder.
- (b) <u>Termination or Amendment</u>. The CC&Rs may be validly terminated, amended, modified or extended, in whole or in part, only by recordation by the Orange County Recorder of a proper instrument duly executed and acknowledged by Grantor and Grantee to that effect.
- (c) <u>Captions</u>. The captions used herein are for convenience only and are not a part of this Grant Deed and do not in any way limit or amplify the scope of intent of the terms and provisions hereof.
- (d) <u>Invalidity of Provisions</u>. If any provision of this Grant Deed as applied to Grantor or unenforceable for any reason, the same shall in no way affect (to the maximum extent permissible by law) any other provision of this Grant Deed, the application of any such provision under circumstances different from those adjudicated by the court, or the validity or enforceability of the Grant Deed as a whole.

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(e) Notices. All notices, consents, requests, demands and other communications provided for herein shall be in writing and shall be deemed to have been duly given if and when personally served or twenty-four (24) hours after being sent by United States registered or certified mail, return receipt requested, postage prepaid, to the other party at the following respective addresses:

Grantor: The Irvine Company LLC

550 Newport Center Drive

Newport Beach, CA 92658-8904

Attention: Senior Vice President, Community Development

Copy to: The Irvine Company LLC

550 Newport Center Drive

Newport Beach, CA 92658-8904 Attention: General Counsel

Grantee: Irvine Ranch Water District

15600 Sand Canyon Avenue Post Office Box 57000 Irvine, CA 92619-7000 Attention: General Manager

Copy to: Bowie, Arneson, Wiles & Giannone

4920 Campus Drive, Suite A Newport Beach, CA 92660 Attention: Joan C. Arneson

or at such other address as the Grantor or the Grantee may designate to the other in writing.

(f) Application to Grantor. Notwithstanding anything herein contained to the contrary, if Grantor reacquires title to the Land or any portion thereof at any time after the date hereof and record(s) a notice of termination of the CC&Rs, the CC&Rs shall automatically cease and terminate and be of no further force or effect as to Grantor and such property, effective as of the date of such recordation by Grantor, except Grantor's and Grantee's respective obligations, if any, respecting indemnity related to acts or occurrences prior to such reacquisition, which shall survive the reacquisition.

(g) <u>Time of Essence</u>. Time is of the essence of each provision of this Grant Deed in which time is an element.

(h) <u>Acceptance and Recordation</u>. Grantee agrees, by acceptance and recordation of this Grant Deed, that the terms and conditions herein set forth shall be binding upon and inure to the benefit of Grantee.

(signatures on next page)

DATED:	GRANTOR:
	THE IRVINE LAND COMPANY LLC, a Delaware limited liability company,
	By: Name: Title:
	By: Name: Title:

ACKNOWLEDGEMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)	
COUNTY OF ORANGE)	
	pefore me,,
a Notary Public in and for said State, personally	y appeared, who proved to me on the basis of satisfactory
he/she/they executed the same in his/her/their	/are subscribed to the within instrument and acknowledged to me that authorized capacity(ies), and that by his/her/their signature(s) on the nalf of which the person(s) acted, executed the instrument.
I certify under PENALTY OF PERJURY und	ler the laws of the State of California that the foregoing paragraph is
true and correct.	x x
WITNESS my hand and official seal.	
	Notary Public in and for said State

(SEAL)

IRVINE RANCH WATER DISTRICT

CERTIFICATE OF ACCEPTANCE

Board of Directors pursuant to authority of	District, is hereby accepted by the undersigned officer on behalf of the onferred by Resolution 2014-40 of the Board of Directors, adopted of
September 8, 2014, and the grantee consent	s to recordation thereof by its duly authorized officer.
Date:	IRVINE RANCH WATER DISTRICT
	Ву:
	Leslie Bonkowski
	Secretary to Board of Directors

EXHIBIT "A" LEGAL DESCRIPTION (IRWD PUMP STATION)

Parcel A:

In the City of Irvine, County of Orange, State of California, being that portion of Block 157 of Irvine's Subdivision as per map recorded in Book 1, Page 88 of Miscellaneous Record Maps in the office of the County Recorder of said County, described as follows:

COMMENCING at the easterly terminus of that certain course shown as "North 70°00'00" West 1185.04" on the centerline of Lake Forest Drive (Extension Phase 2) per the deed recorded June 21, 2012 as Instrument No. 2012000352753 of Official Records in said Office of the County Recorder; thence along said centerline North 70°00'00" West 429.53 feet; thence South 20°00'00" West 58.00 feet to a point on a line which is parallel with and distant 58.00 feet southerly from said centerline as described in said deed, said point being the TRUE POINT OF BEGINNING; thence along said parallel line as described in said deed North 70°00'00" West 100.00 feet; thence South 20°00'00" West 100.00 feet; thence South 70°00'00" East 100.00 feet; thence North 20°00'00" East 100.00 feet to the TRUE POINT OF BEGINNING.

Contains an area of 0.230 acres, more or less.

As shown on Exhibit "B" attached hereto and by this reference made a part hereof.

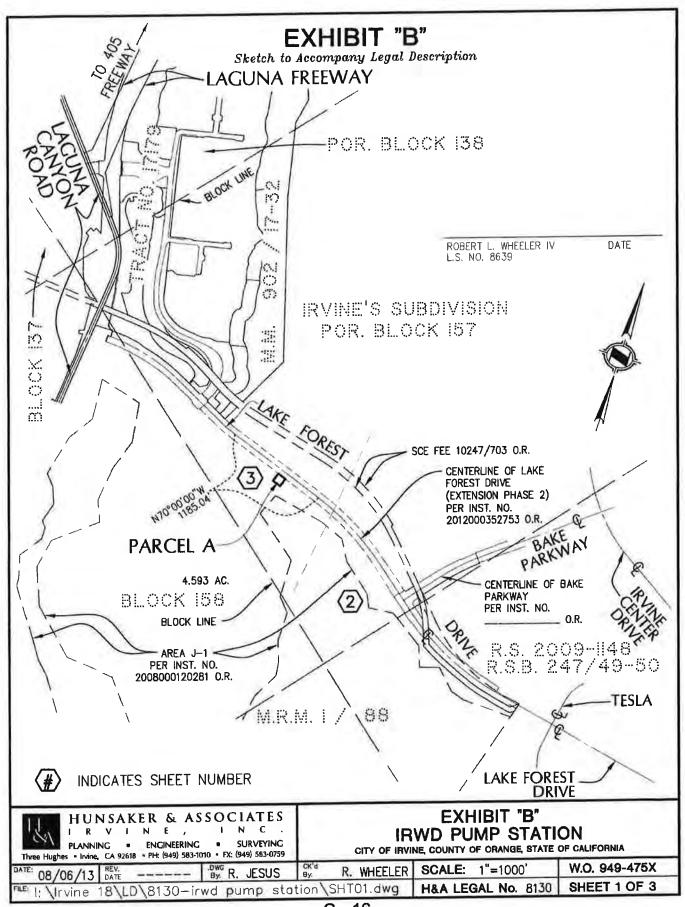
Subject to covenants, conditions, reservations, restrictions, rights of way and easements of record, if any.

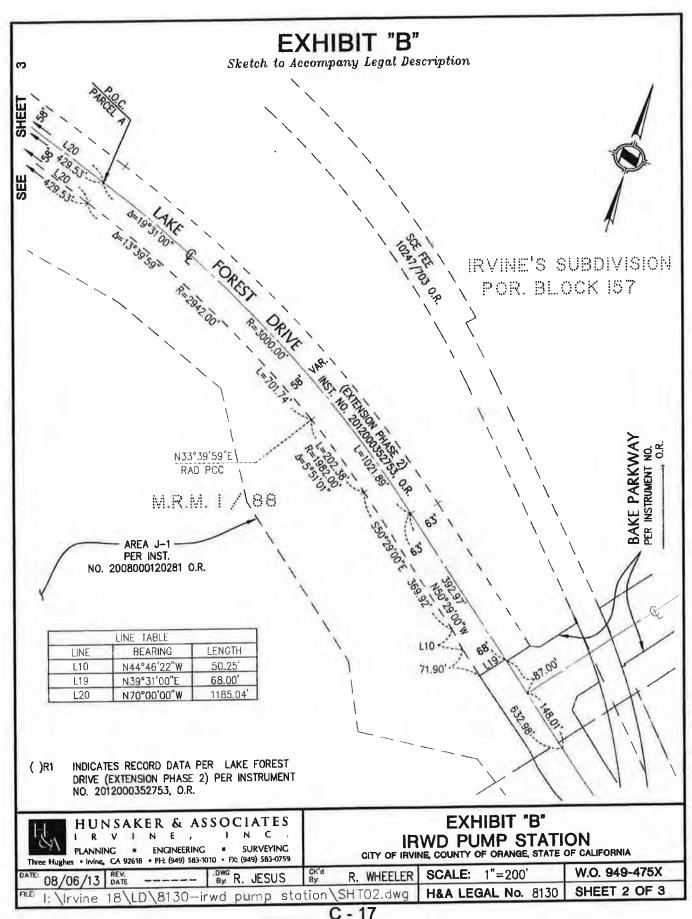
Robert L. Wheeler IV, L.S. 8639

Date: 08/13/15



Revised: August 12, 2015 August 6, 2013 W.O. No. 949-475x Page 1 of 1 H&A Legal No. 8130 By: R. Jesus Checked By: R. Wheeler





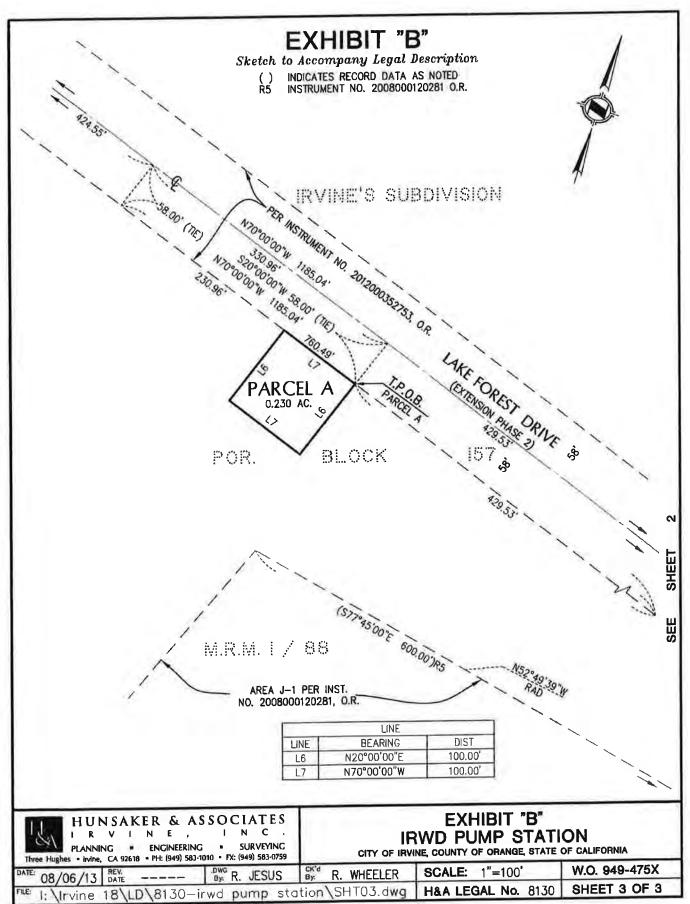


EXHIBIT "C"

LEGAL DESCRIPTION OF THE BENEFITED PROPERTY

The properties described below shall constitute the "Benefited Property" for purposes of this Grant Deed, provided that any such property shall cease being part of the "Benefited Property" at such time as fee title to such property ceases to be owned by any of Grantor, The Irvine Company LLC ("TIC"), Irvine Community Development Company LLC ("ICDC") or any of their respective divisions, subsidiaries or affiliates.

PROPERTIES LOCATED IN CITY OF IRVINE.

Woodbury Town Center

Lot 1 of Tract No. 16755, in the City of Irvine, County of Orange, as shown on a Map filed in Book 866, Pages 12 to 21, inclusive, of Miscellaneous Maps, Records of Orange County, California.

Quail Hill Shopping Center

Lot 3 of Tract No. 16225, in the City of Irvine, County of Orange, as shown on a map filed in Book 829, Pages 1 to 29, inclusive, of Miscellaneous Maps, Records of Orange County, California.

Westpark Plaza

PARCEL A:

Parcel 1 of that certain Lot Line Adjustment No. 86-LL-0044, in the City of Irvine, County of Orange, State of California, recorded May 20, 1987, as Instrument No. 87-282633, Official Records of said Orange County, California, excepting therefrom that portion of said land conveyed to the Orange County Flood Control District by Deed recorded July 29, 1993, as Instrument No. 93-0507180, Official Records of said County.

PARCEL B:

Easements for parking and access over Lot 16 of Tract No. 12355, in the City of Irvine, County of Orange, State of California, as per Map recorded in Book 556, Pages 15 to 36, inclusive, of Miscellaneous Maps, in the Office of the County Recorder of said County, which easements are more particularly set forth in that certain instrument entitled "Declaration as to Access Easements," recorded March 12, 1991, as Instrument No. 91-111920, Official Records of said County.

Harvard Place

Parcel 1, in the City of Irvine, County of Orange, State of California, of Lot Line Adjustment 86-LL-0042, recorded on May 20, 1987, as Instrument No. 87-282634 of Official Records of Orange County.

Retail Center at Culver & Irvine (Northpark Plaza)

Parcel 1 of Parcel Map No. 97-134 in the City of Irvine, County of Orange, as shown on a Map filed in Book 305, Pages 39, 40 and 41 of Parcel Maps, Records of Orange County, California.

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West Irvine/The Market Place II

Parcels 1 and 2 of Parcel Map No. 93-204 in the City of Irvine, County of Orange, State of California, as shown on a Map filed in Book 291, Pages 18 to 23 of Parcel Maps, in the Office of the County Recorder of said County.

West Irvine/The Market Place III

All of Parcel Map No. 98-167, in the City of Irvine, County of Orange, as shown on a Map filed in Book 305, Pages 16 to 21, inclusive, of Parcel Maps, Records of Orange County, California.

Oak Creek Village Center

Lot 1 of Tract No. 15216, in the City of Irvine, County of Orange, as shown on a Map filed in Book 742, Pages 49 and 50 of Miscellaneous Maps, Records of Orange County, California.

Irvine Spectrum Center

That portion of Lot 292, Block 156 of the Irvine Subdivision in the City of Irvine, County of Orange, State of California, as shown on a Map filed in Book 1, Page 88 of Miscellaneous Maps in the Office of the County Recorder of said County, described as follows:

Beginning at the northwesterly terminus of that certain course in the easterly right-of-way line of Fortune, a public street, shown as "north 41°52'09" west, 512.82 feet" on Parcel Map No. 87-364 filed in Book 241, Pages 14 through 16, inclusive, of Parcel Maps in the Office of the County Recorder of said County, said point also being the beginning of a curve concave easterly, having a radius of 684.00 feet; thence along said right-of-way line of Fortune as shown on said Parcel Map 87-364 and as shown on Parcel Map 87-427 filed in Book 252, Pages 19 through 22, inclusive, of Parcel Maps, Records of said County, the following four (4) courses: (1) northwesterly 413.13 feet along said curve through a central angle of 34°36'21" to the beginning of a compound curve having a radius of 554.00 feet; (2) northwesterly, northerly and northeasterly, 940.45 feet along said compound curve through a central angle of 97°15'48"; (3) east 199.84 feet to the beginning of a curve concave northerly, having a radius of 246.00 feet; (4) easterly, 221.52 feet along said curve through a central angle of 51°35'38"; thence, north 36°24'22" east, 40.68 feet; thence north 78°40'37" east, 34.30 feet to the southwesterly line of that certain land described in a Deed to the State of California recorded on August 13, 1985, as Instrument No. 85-300430, Official Records of said County and as shown on said Parcel Map No. 87-427; thence along said southwesterly line the following two (2) courses: (1) south 53°58'29" east, 50.76 feet; (2) north 36°21'52" east, 104.52 feet; thence leaving said southwesterly line and traversing the interior of said Lot 292 the following fifteen (15) courses: (1) south 46°05'24" east, 49.06 feet; (2) south 31°42'37" east, 89.49 feet; (3) south 47°47'43" west, 62.83 feet; (4) north 42°12'18" west, 5.62 feet to the beginning of a curve concave southeasterly, having a radius of 4.50 feet; (5) westerly, southwesterly, and southerly 7.49 feet along said curve through a central angle of 95°18'46"; (6) south 42°28'56" west, 104.32 feet; (7) south 04°31'29" east, 335.20 feet to the beginning of a non-tangent curve, concave southwesterly, having a radius of 30.73 feet, a radial line through said point bears north 77°35'50" east; (8) southeasterly, 14.23 feet along said curve through a central angle of 26°32'25" to the beginning of a nontangent curve, concave to the southwest having a radius of 1097.95 feet, a radial line

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through said point bears south 87°38'31" east; (9) southeasterly, 826.32 feet along said curve through a central angle of 43°07'15" to the beginning of a non-tangent curve concave southwesterly having a radius of 45.63 feet, a radial through said point bears south 46°43'17" east; (10) southeasterly, 8.29 feet along said curve through a central angle of 10°24'41"; (11) non-tangent to said last mentioned curve, south 51°25'42" west, 73.01 feet; (12) south 32°47'46" east, 282.39 feet; (13) south 57°12'14" west, 155.00 feet; (14) south 32°47'46" east, 30.00 feet; (15) south 57°12'14" west, 159.40 feet to the northeasterly right-of-way line of Fortune as shown on said Parcel Map No. 87-364; and the beginning of a non-tangent curve concave southwesterly, having a radius of 346.00 feet, a radial through said point bears south 89°40'51" east; thence along said right-of-way line the following two (2) courses: (1) westerly and northwesterly, 254.77 feet along said curve through a central angle of 42°11'18"; (2) north 41°52'09" west, 512.82 feet to the point of beginning.

Irvine Technology Center

Lots 2 through 15, inclusive, and Lots 17 through 20, inclusive, of Tract No. 15661 in the City of Irvine, County of Orange, State of California, as shown on a Map filed on June 30, 1998, as Instrument No. 19980416848, in Book 770, at Pages 12 through 20, inclusive, of the Official Records of said County.

Westpark Village

Lot 16 of Tract No. 12355, in the City of Irvine, County of Orange, State of California, as per map recorded in Book 556, Pages 15 to 36, inclusive, of Miscellaneous Maps, in the Office of the County Recorder of said County.

Crossroads Shopping Center

Parcels 3 through 7, inclusive, and A and B of Parcel Map No. 86-138 recorded in Book 215, Pages 18 through 21, inclusive, of Parcel Maps, Official Records of Orange County, California; and Parcels 1, 2, 8, 9, 10, A, B, C, D and E as shown on Exhibit "A" to that certain Lot Line Adjustment No. 87-LLA-0068 recorded on November 16, 1987 as Instrument No. 87-64803, Official Records of Orange County, California.

Alton Square

Parcel 9, as per map filed in Book 135, Pages 11 to 15, inclusive, of Parcel Maps, Records of Orange County.

14. Oak Creek Golf Course

Parcels 1, A and B of Parcel Map 94-200 in the City of Irvine, County of Orange, State of California, as shown on a Map filed on February 23, 1996, as Instrument No. 96-0100462, in Book 291 at Pages 28 through 34, inclusive, of the Official Records of said County.

15. University Research Park

PARCEL A:

A leasehold interest in that certain property in the City of Irvine, County of Orange, State of California, described as Parcels 1 through 4, inclusive, as shown on a Map, recorded in

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Book 173, Pages 17 through 22, inclusive, of Record of Surveys in the Office of the County Recorder of said County, as per the Memoranda of Lease recorded May 5, 1999, as Instrument No. 19990328619 and October 30, 2000, as Instrument Nos. 20000454625, 20000454626 and 20000454627, Official Records of said County.

PARCEL B:

That property described as Parcels 1 to 9, inclusive, of Parcel Map No. 94-160 in the City of Irvine, County of Orange, State of California, as shown on a Map filed on June 14, 1996, as Instrument No. 96-0303310, in Book 293, Pages 6 to 11, inclusive, of Parcel Maps, as modified by Lot Line Adjustment 33324-LL recorded February 25, 1999, as Instrument No. 19990135421, Lot Line Adjustment No. 38355-LL recorded September 15, 1999, as Instrument No. 19990663936, Lot Line Adjustment No. 38615-LL recorded November 8, 1999, as Instrument No. 19990777735, Lot Line Adjustment No. 41522-LL recorded February 23, 2000, as Instrument No. 20000095623, and Lot Line Adjustment No. 43246-LL recorded May 25, 2000, as Instrument No. 20000275182, all of Official Records, Orange County, California.

Orchard Hills Shopping Center

That certain parcel of land situated in the City of Irvine, County of Orange, State of California, being all of Lot 1 of Tract Map No. 17004 recorded on June 12, 2007, as Instrument No. 2007000372942, in Book 891, Pages 1 through 53, inclusive, of Miscellaneous Maps, in the Official Records of Orange County, California.

17. Orchard Hills Apartments

That certain parcel of land situated in the City of Irvine, County of Orange, State of California, being all of Lot 2 of Tract No. 17004 recorded on June 12, 2007, as Instrument No. 2007000372942, in Book 891, Pages 1 through 53, inclusive, of Miscellaneous Maps, in the Official Records of Orange County, California.

Woodbury East Apartments

Lot 18 of Tract No. 17086, as shown on a map filed in Book 890, Pages 1 to 20, inclusive, of Miscellaneous Maps, Records of Orange County, California.

Stonegate Apartments

Lot 18 of Tract No. 17086, as shown on a map filed in Book 890, Pages 1 to 20, inclusive, of Miscellaneous Maps, Records of Orange County, California.

The Park Apartments in Irvine Spectrum

Those certain parcels of land situated in the City of Irvine, County of Orange, State of California being all of Parcel Map No. 2006-220 filed in Book 359, Pages 40 through 44, inclusive, of Parcel Maps on file in the offices of the County Recorder of said County, as amended by Parcel Map Certificate of Correction recorded on December 8, 2008, as Instrument No. 2008000563014, Records of Orange County, California.

The Village Apartments in Irvine Spectrum

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Lot 1, 2 and 3 of Tract 16552 in the City of Irvine, County of Orange, State of California, being a subdivision of Parcels 1 and 2, portions of Irvine Center Drive and Pacifica of Parcel Map No. 90-204 as shown on a map filed in Book 269, Pages 42 – 45, inclusive of Parcel Maps in the offices of the County Recorder of said Orange County.

22. Planning Area 33, City of Irvine

All of that certain real property located in the City of Irvine, County of Orange, State of California, as depicted and shown as Planning Area 33 on Figure A-2 of the Land Use Element of the General Plan of the City of Irvine, dated June 2012, a copy of which is attached as Schedule 1 to this Exhibit.

Los Olivos Apartments in Planning Area 39, City of Irvine

Lots 1-14 and Lots A, B, E and F of Tract 17216, as shown on a map filed in Book 908, Pages 17-24, inclusive, of Miscellaneous Maps, records of Orange County, California.

Planning Area 39, City of Irvine

All of that certain real property (other than the Los Olivos Apartments) located in the City of Irvine, County of Orange, State of California, as depicted and shown as Planning Area 39 on Figure A-2 of the Land Use Element of the General Plan of the City of Irvine, dated June 2012, a copy of which is attached as Schedule 1 to this Exhibit.

25. Cypress Village Apartments

Lots 1, 2, 5, 6 and 7 of Tract 17394, as shown on a map filed in Book 902, pages 33 through 43, inclusive, of Miscellaneous Maps, records of Orange County, California.

Planning Area 40, City of Irvine

All of that certain real property (other than the Cypress Village Apartments described above) located in the City of Irvine, County of Orange, State of California, as depicted and shown as Planning Area 40 on Figure A-2 of the Land Use Element of the General Plan of the City of Irvine, dated June 2012, a copy of which is attached as Schedule 1 to this Exhibit.

27. Portola Place Apartments

Lot 20 of Tract 16780, as shown on a map filed in Book 867, pages 18 through 30, inclusive, of Miscellaneous Maps, records of Orange County, California.

Planning Area 6 City of Irvine

All of that certain real property (other than the Portola Place Apartments described above) located in the City of Irvine, County of Orange, State of California, as depicted and shown as Planning Area 6 on Figure A-2 of the Land Use Element of the General Plan of the City of Irvine, dated June 2012, a copy of which is attached as Schedule 1 to this Exhibit.

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II. OTHER PROPERTIES.

All other property owned by Grantor, TIC, ICDC or any of their respective divisions or affiliates in the County of Orange, California, as of the date of recordation of this Grant Deed.

Grantor, TIC or ICDC shall have the right by duly recorded amendment(s) to this Grant Deed executed only by any such entity to unilaterally provide further descriptions or depictions (or both) of all or portions of the Benefited Property described above.

EXHIBIT "D"

AGREEMENT FOR WATER PUMP STATION

THIS AGREEMENT ("Agreement") is made and entered into as of ______, 2016, by and between the IRVINE RANCH WATER DISTRICT, a California Water District organized and existing pursuant to Division 13 of the Water Code of the State of California ("IRWD") and the City of Irvine, a California municipal corporation ("City"). City and IRWD are sometimes referred to herein individually as a "Party" and collectively as the "Parties."

RECITALS

WHEREAS, Irvine Community Development Company LLC ("ICDC") is developing the residential community known as Eastwood and recorded a subdivision map Tract No. 17523, filed in Book 926, Pages 1 through 18 of Miscellaneous Maps, Records of Orange County, California; and

WHEREAS, as part of the recordation of Tract No. 17523, a non-exclusive easement (the "Easement") over portions of Lots 1 and 16 of said tract ("Easement Area") was dedicated to and accepted by City for storm drain facilities (the "Drainage Facility") as depicted in **Exhibit A**, incorporated herein by reference; and

WHEREAS, as part of said development ICDC re-subdivided a portion of Lot 1 and all of Lot 16 of said tract into Lot 26 of Tract No. 17849, filed in Book 944, Pages 1 through 11 of Miscellaneous Maps, Records of Orange County, California as depicted in **Exhibit B**, incorporated herein by reference; and

WHEREAS, it is proposed by IRWD and ICDC that ICDC shall convey said Lot 26 of Tract No. 17849 to IRWD ("Property"); and

WHEREAS, prior to ICDC conveying Lot 26 of said Tract No. 17849 to IRWD, it is proposed by IRWD and ICDC that ICDC shall, at IRWD's request, construct a perimeter block wall ("Wall") around the Property, a portion of which Wall lies within the Easement Area, and convey ownership of the Wall together with the Property to IRWD; and

WHEREAS, upon IRWD's receipt of the Property from ICDC, IRWD proposes to construct a water pump station on the Property, including a portion of the Property which lies within the Easement Area; and

WHEREAS, the maintenance, repair and replacement of the Wall, resulting water pump station, impacts to the Drainage Facility, and all of the costs associated therewith shall be the responsibility of IRWD.

NOW, THEREFORE, in consideration of the terms, conditions and covenants set forth herein, the parties hereto do agree as follows:

1. IRWD Water Pump Station. Subject to the terms in this Agreement, including required City approvals, and the rights of the City within the Easement Area, IRWD may construct, in connection with its construction of the water pump station, other facilities and appurtenances required for the operation and maintenance of the water pump station over the Easement Area, including but not limited to electrical and communication conduits, pipelines, paving, electric gate or other items ("Improvements").

2. IRWD Obligations.

- a. Repairs and Maintenance. In the event IRWD finds it necessary to enter on and disturb the surface or subsurface of the Easement Area in order to maintain, repair or reconstruct the Wall, water pump station, and Improvements thereon, IRWD shall at its sole cost and expense, following completion of IRWD's activity, repair any damage to or alteration of the Drainage Facility caused thereby, including the maintenance of storm flows during such periods of repair and construction, as needed, and return the Drainage Facility to the condition existing prior to such disturbance by IRWD. In the event that City desires to exercise its Easement rights to maintain, repair or replace the Drainage Facility within the Easement Area, IRWD, at its sole cost and expense, shall be responsible for any costs related to the removal and/or replacement of the Wall, water pump station, and Improvements within the Easement Area.
- b. Notice. If IRWD intends to disturb the surface of the Easement Area in a manner that is likely to materially impact the Drainage Facility, then IRWD shall give City not less than sixty (60) days prior written notice specifying the date of such entry, the duration thereof and the nature of the work to be performed by IRWD. IRWD further agrees to use its best efforts to minimize any inconvenience to City and to minimize the period of time that the Drainage Facility shall be disturbed.
- c. <u>City Approvals.</u> No construction, repair or reconstruction that affects the structural integrity of the Drainage Facility shall be commenced within the Easement Area until the plans for the same have first been approved in writing by City. City agrees that such plans shall be approved or disapproved within a reasonable time following receipt thereof, and that such approval shall not be withheld unreasonably.
- 3. Insurance. In the event IRWD performs any portion of the work contemplated in this Agreement, IRWD shall procure and maintain, at its sole cost, insurance coverage as provided below, against all claims for injuries against person or damages to property which may arise from or in connection with the performance of work hereunder by IRWD, and/or its employees. In the event IRWD utilizes a contractor to perform any portion of the work contemplated in this Agreement, the contract between IRWD and the contractor shall require the contractor and the contractor's subcontractors, if applicable, to procure and maintain the insurance coverage as provided below prior to performing

any work within the Easement Area. Upon written request from City, IRWD shall provide City with certificates of insurance evidencing such coverage prior to commencing work within the Easement Area:

- a. Commercial General Liability Insurance on an "occurrence" basis, with deductibles reasonably acceptable to City, with a combined single limit of One Million Dollars (\$1,000,000.00) per occurrence or the current limit carried, whichever is greater. Such insurance must include coverage for operations, independent professionals, contractual liability, broad form property damage, cross-liability and personal injury. The limits of liability specified may be provided by any combination of primary and umbrella/excess liability insurance policies.
- b. Automobile Liability Insurance (including but not limited to owned, hired and non-owned automobile) on an "occurrence" basis, covering all automobiles, trucks and other motor vehicles used in connection with the work under this Agreement, with a combined single limit for bodily injury and property damage of not less than One Million Dollars (\$1,000,000.00) per accident or the current limit carried, whichever is greater. The limits of liability specified may be provided by any combination of primary and umbrella/excess liability insurance policies.
- c. Workers' Compensation and Employer's Liability Insurance in an amount required by the laws of the State of California and Employer's Liability Insurance in the amount of One Million Dollars (\$1,000,000.00) per occurrence for injuries incurred in providing work under this Agreement.

All of the above policies of insurance shall be primary insurance and noncontributing with any other valid and collectible insurance or self-insurance available to City. Except for the Worker's Compensation Insurance, all of the above policies of insurance shall name the City, its officers, officials, employees, and agents as additional insureds thereunder, and that there are no special limitations on the scope of protection afforded to City and any of their respective officers, officials, employees, and agents. Said policies shall be satisfactory only if issued by companies qualified to do business in California and rated A:VII or better in the most recent edition of the Best Rating Guide. The insurer shall waive all rights of subrogation and contribution it may have against the City, its officers, officials, employees, and agents and their respective insurers. All of said policies of insurance shall provide that said insurance may not be amended, suspended or canceled without providing thirty (30) days prior written notice by registered mail to City. In the event any of said policies of insurance are canceled, IRWD shall, prior to the cancellation date, submit new evidence of insurance in conformance with this Section to the City Manager of City. The IRWD may self-insure or participate in a joint powers authority (JPA) with other governmental entities, in order to fulfill its insurance requirements.

4. <u>Indemnification of City</u>. IRWD shall indemnify, defend and hold City harmless from and against any and all losses, damages, injuries, obligations, demands, causes of action, expenses, liabilities, costs or claims (including but not limited to reasonable attorneys'

fees) (collectively, the "Claims") incurred in connection with or arising out of the use of the Easement Area as provided herein, including without limitation, the construction, maintenance, repair, reconstruction of the Wall, water pump station, and Improvements, and any other related activities specified herein, by IRWD and/or its officers, employees, representatives, contractors, and agents performing work on behalf of IRWD but expressly excluding such use and activities of ICDC and its officers, employees, representatives, contractors, and agents, or from any act or omission of IRWD and/or any of its officers, employees, representatives, contractors, and agents but expressly excluding any act or omission of ICDC and its officers, employees, representatives, contractors, and agents, arising out of the use of the Easement Area as provided herein including any fire or other casualty thereon, or a violation or alleged violation by IRWD and/or its officers, employees, representatives, contractors, and agents of any law or regulation now or hereafter enacted or occasioned in connection with or arising out of the rights and obligations in this Agreement, except to the extent any such Claim is caused by the active negligence or willful misconduct of City.

- 5. <u>Liens</u>. IRWD shall not suffer or permit to be enforced against the Easement Area any mechanics, laborers, materialmens, contractors, subcontractors, or any other liens, claims or demands arising from any maintenance or other work performed by IRWD within the Easement Area. IRWD shall either post a bond under applicable law sufficient to release such liens or pay or cause to be paid all of said liens, claims and demands before any action is brought to enforce the same against the Easement Area. IRWD hereby agrees to indemnify and hold City free and harmless from all liability for any such liens, claims and demands.
- 6. Notices. Unless otherwise provided herein, all notices or communications required to be delivered under this Agreement or under applicable law shall be (i) personally delivered, or (ii) delivered by United States mail, postage prepaid, certified, return receipt requested, or (iii) delivered by reputable document delivery service that provides a receipt showing date and time of delivery. Notices or communications personally delivered or delivered by a document delivery service shall be effective upon receipt. Notices or communications delivered by mail shall be effective at noon on the second business day following deposit with the United States Postal Service. A Party hereto may at any time, by giving ten (10) days' written notice to the other Party hereto, designate any other address in substitution of the address to which such notice or communication shall be given. Such notices or communications shall be delivered to the following addresses:

If to City:

City of Irvine

1 Civic Center Plaza P.O. Box 19575

Irvine, CA 92623-9575

Attn: Director of Public Works

If to IRWD:

Irvine Ranch Water District

15600 Sand Canyon Avenue

Irvine, CA 92618 Attn: General Manager

7. Miscellaneous.

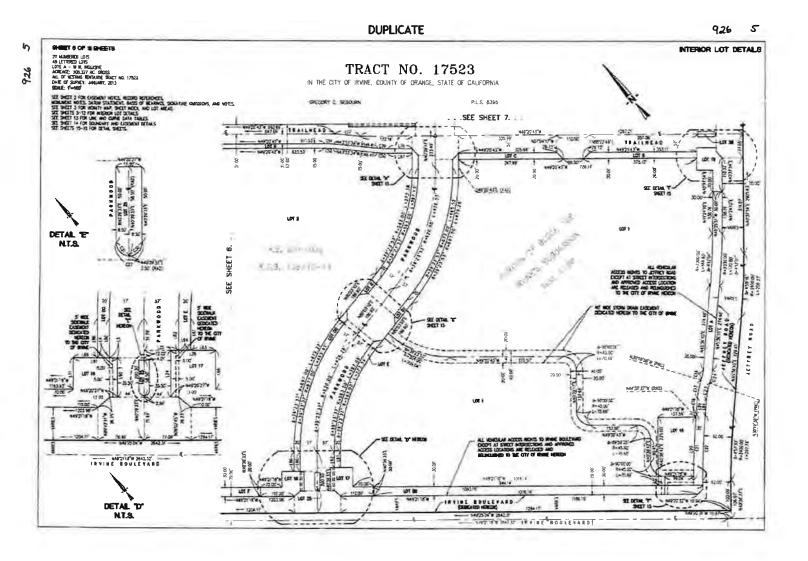
- a. Applicable Law. The Superior Court of the State of California in the County of Orange shall have the exclusive jurisdiction of any litigation between the Parties arising out of this Agreement. This Agreement shall be governed by, and construed under, the laws of the State of California. In addition to any other rights or remedies, any Party may take legal action, in law or in equity, to cure, correct, or remedy any default, to recover damages for any default, to compel specific performance of this Agreement, to obtain declaratory or injunctive relief, or to obtain any other remedy consistent with the purposes of this Agreement. The rights and remedies of the Parties are cumulative and the exercise by any Party of one or more of such rights or remedies shall not preclude the exercise by it, at the same or different times, of any other right or remedies for the same default or any other default by the other Party(ies). Service of process shall be made in any manner permitted by law and shall be effective whether served within or outside of California.
- b. Attorneys' Fees. If any action, proceeding, or arbitration arising out of or relating to this Agreement is commenced by either Party to this Agreement, then as between the IRWD and City, the prevailing Party shall be entitled to receive from the other Party, in addition to any other relief that may be granted, the reasonable attorneys' fees, costs, and expenses incurred in the action, proceeding, or arbitration by the prevailing Party. Attorneys' fees shall include reasonable costs for investigating such action, conducting discovery, retaining expert witnesses, and all other necessary costs the court allows which are incurred in such litigation.
- c. <u>Successor and Assigns.</u> This Agreement shall be binding upon and inure to the benefit of the successors and assigns of IRWD and City.
- d. <u>Inaction Not a Waiver of Default</u>. Any failures or delays by any Party in asserting any of its rights and remedies as to any default shall not operate as a waiver of any default or of any such rights or remedies, or deprive any such Party of its right to institute and maintain any actions or proceedings which it may deem necessary to protect, assert or enforce any such rights or remedies.
- e. Non-Liability of Officials and Employees. No member, official or employee of City shall be personally liable to IRWD, or any successor in interest, in the event of any default or breach by City or for any amount which may become due to IRWD or its successors, or of any obligations under the terms of this Agreement.
 - No member, official or employee of IRWD shall be personally liable to City, or any successor in interest, in the event of any default or breach by IRWD or for any amount which may become due to City or its successors, or of any obligations under the terms of this Agreement.
- f. <u>Counterparts</u>. This Agreement may be signed in multiple counterparts which, when signed by all Parties, shall constitute a binding agreement.

- g. <u>Entire Agreement</u>. This Agreement contains the sole and entire agreement and understanding of the parties with respect to the subject matter hereof, and contains all covenants and agreements between the parties with respect to such matter.
- h. <u>Incorporation of Exhibits</u>. <u>Exhibits A and B</u> which are attached hereto, are hereby incorporated herein by this reference.
- i. No Third-Party Beneficiaries. All the covenants contained in this Agreement are for the express benefit of each of the Parties. This Agreement is not intended to benefit any third parties.

IN WITNESS WHEREOF, the undersigned have caused this Agreement to be executed as of the date first written above.

	IRVINE RANCH WATER DISTRICT, a California Water District				
	ByPaul Cook				
	General Manager				
	CITY OF IRVINE, a California municipal corporation				
	By				
	Its:Mayor				
ATTEST:					
Molly McLaughlin, City Clerk					
APPROVED AS TO FORM:					
RUTAN & TUCKER, LLP					
By: Todd O. Litfin, City Attorney					

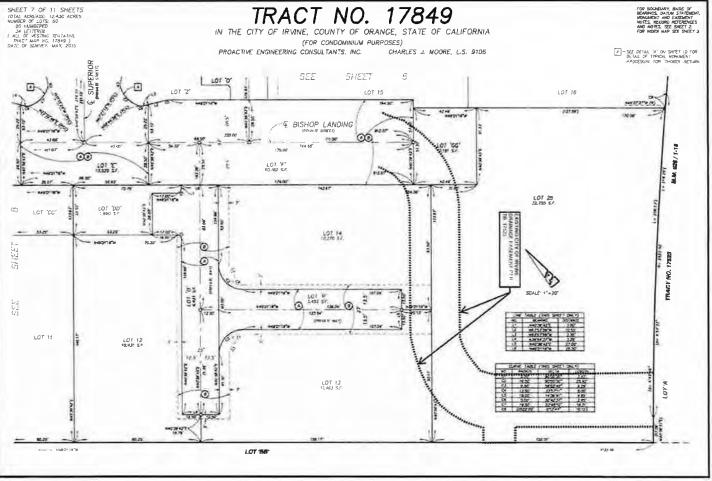




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January 25, 2016
Prepared and
Submitted by C. Compton
Approved by: Paul Cook

ACTION CALENDAR

OCSD SERVICE AREA 7 LOCAL SEWER FACILITIES TRANSFER AGREEMENT

SUMMARY:

In 2007, the Orange County Sanitation District (OCSD) determined, and has stated in its Strategic Objectives, to divest itself from providing local retail sewer service for multiple areas within its service boundary. One of the last areas OCSD has sought to divest itself of is Service Area 7, which is comprised of portions of the City of Tustin and the unincorporated communities of North Tustin and El Modena. Two agencies, Irvine Ranch Water District and East Orange County Water District (EOCWD), have submitted applications to the Orange County Local Agency Formation Commission (OC LAFCO) to assume the local sewer service from OCSD.

Any transfer of ownership of the local sewers will require that the OC LAFCO approve the requested reorganization. OC LAFCO staff expects that the Commission will consider the applications in April or May. In light of the pending OC LAFCO decision, IRWD and OCSD have negotiated a Local Sewer Facilities Transfer Agreement to transfer ownership of local sewers in Service Area 7 and the appropriate reserve balance to IRWD should the OC LAFCO approve IRWD's application (the Transfer Agreement).

Staff recommends that the IRWD Board approve, subject to non-substantive changes, the proposed Service Area 7 Local Sewer Facilities Transfer Agreement and authorize the President to execute the agreement on behalf of the District. The OCSD Steering Committee and Board of Directors are scheduled to consider the proposed Transfer Agreement at its meeting on January 27, 2016.

BACKGROUND:

OCSD currently owns and operates 174 miles of local sewers in Service Area 7. OCSD's Strategic Plan includes an initiative to transfer these local sewers, among others, to a local retail agency. Any transfer of ownership of local sewers requires OC LAFCO approval of a proposed reorganization. Process, evaluation, and consideration of the transfer of Service Area 7's local sewer system are ongoing.

Timeline of OC LAFCO's Process:

In February 2014, OCSD approved a transfer agreement for the sewers in Service Area 7 with the East Orange County Water District. IRWD first learned of a possible transfer of Service Area 7 when this agreement was recommended for approval by the OCSD Board of Directors. IRWD immediately contacted OCSD to request an opportunity to submit a proposal to serve the North Tustin area. OCSD indicated it was not considering alternative proposals.

Action Calendar: OCSD Service Area 7 Local Sewer Facilities Transfer Agreement January 25, 2016 Page 2

In March 2014, EOCWD filed an application and Plan of Service with the OC LAFCO to activate "latent powers" and to take over ownership and retail sewer service in Service Area 7. The filing of this application required OC LAFCO to begin a Municipal Service Review (MSR) for the service area.

As part of the MSR process, OC LAFCO was mandated to look for alternative service providers to ensure the most efficient and cost-effective provision of services to the community. LAFCO identified "stakeholder" agencies and then asked these agencies if they were interested in providing sewer services to the North Tustin community. IRWD was one of these stakeholder agencies and in November 2014, IRWD indicated its interest in being considered as an alternative service provider.

In March 2015, through the normal OC LAFCO process, the IRWD was provided with the information required to assemble a proposal for IRWD to serve Service Area 7. IRWD filed an application and Plan of Service with the Commission to transfer local retail sewer service responsibilities and facilities in Service Area 7 from OCSD to IRWD on March 23, 2015. IRWD proposed to operate and maintain the sewers in Service Area 7 with the same high level of service it does for its existing 1,000 miles of sewers; IRWD also proposed to provide this service at one-half the price currently being charged to the customers of Service Area 7.

IRWD conditioned its proposal to LAFCO and the future annexation of Service Area 7's local sewer system on IRWD's plan to own and operate the sewer system with no changes to any current treatment arrangements or responsibilities. IRWD proposed that OCSD would continue to receive and treat sewage from this area as it currently flows to OCSD, and the existing flow accommodation agreements between IRWD and OCSD would remain in effect. IRWD and OCSD would continue to account for these flows according to the terms of an existing flow accommodation agreement between the two agencies — the "Agreement for the Purchase of Capacity in the Irvine Ranch Water District (IRWD) Harvard Avenue Trunk Sewer" (the HATS Agreement) which has been in place since 1992.

OC LAFCO staff has been evaluating the two proposals before the Commission related to Service Area 7. OC LAFCO staff expects that the Commission will consider the applications in April or May of 2016.

Proposed Transfer Agreement:

In light of the pending OC LAFCO decision, IRWD and OCSD staff have negotiated a proposed Local Sewer Facilities Transfer Agreement to transfer ownership of local sewers in Service Area 7 and the associated reserve balance to IRWD should OC LAFCO approve IRWD's application. The proposed Transfer Agreement, which is attached as Exhibit "A", details the responsibilities of both OCSD and IRWD in the transfer of Service Area 7's local sewer assets, responsibility for sewage collections for approximately 17,400 customers, and the balance of the Service Area 7 reserve fund (estimated to be \$30 million).

The proposed agreement also provides that all existing and future parcels in Service Area 7 shall continue as customers of OCSD for the purpose of sewage treatment. It also provides, except as provided for in the HATS Agreement, that the wastewater flows from Service Area 7 will flow

Action Calendar: OCSD Service Area 7 Local Sewer Facilities Transfer Agreement January 25, 2016

Page 3

in perpetuity to OCSD through the Sunflower Trunk Sewer and the Redhill Trunk Sewer. The wastewater currently flowing from Service Area 7 to the Harvard Avenue Trunk Sewer will continue to be treated in accordance with the HATS Agreement.

In addition to providing for the transfer of the local sewer facilities, approval of the proposed agreement will allow the County of Orange to process a tax transfer exchange between OCSD and IRWD. The tax transfer exchange is necessary for OC LAFCO to consider IRWD's application.

The proposed Transfer Agreement attached as Exhibit "A" is same agreement that is on the agenda for the next OCSD Steering Committee meeting and Board meeting; both meetings are scheduled for January 27. Staff recommends that the Board approve, subject to non-substantive changes, the proposed Service Area 7 Local Sewer Facilities Transfer Agreement and authorize the President to execute the agreement on behalf of the District.

FISCAL IMPACTS:

Not applicable.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item has been reviewed by the IRWD Board on multiple occasions in Closed Session.

RECOMMENDATION:

THAT THE BOARD APPROVE, SUBJECT TO NON-SUBSTANTIVE CHANGES, THE PROPOSED SERVICE AREA 7 LOCAL SEWER FACILITIES TRANSFER AGREEMENT BETWEEN THE ORANGE COUNTY SANITATION DISTRICT AND IRWD, AND AUTHORIZE THE PRESIDENT TO EXECUTE THE AGREEMENT ON BEHALF OF THE DISTRICT.

LIST OF EXHIBITS:

Exhibit "A" - Proposed OCSD Service Area 7 Local Sewer Facilities Transfer Agreement

LOCAL SEWER FACILITIES TRANSFER AGREEMENT

THIS LOCAL SEWER FACILITIES TRANSFER AGREEMENT ("Agreement") is made this __day of _____, 2016 ("Effective Date") by and between the ORANGE COUNTY SANITATION DISTRICT ("OCSD"), a duly organized County Sanitation District existing pursuant to California Health and Safety Code section 47000 *et seq.*, and the IRVINE RANCH WATER DISTRICT ("IRWD"), a duly organized County Water District existing pursuant to California Water Code section 30000 *et seq.* OCSD and IRWD are sometimes hereinafter individually referred to as "Party" and hereinafter collectively referred to as "Parties".

RECITALS

WHEREAS, OCSD owns and operates regional wastewater collection, conveyance, treatment, and disposal facilities within its 471 square mile service area;

WHEREAS, OCSD owns and operates the local wastewater collection and conveyance facilities within the area known as Service Area 7 ("Local Sewer Facilities"). Service Area 7 is more particularly identified in Exhibit "A" attached hereto and incorporated herein by reference. The Local Sewer Facilities are more particularly described in attachments 1 and 2 of Exhibit "B" attached hereto and incorporated herein by reference;

WHEREAS, IRWD has initiated proceedings under the Cortese-Knox-Herzberg Local Government Reorganization Act of 2000, as amended, Government Code section 56000, et seq., requesting LAFCO approval of a reorganization proposal (the "IRWD Proposal") whereby IRWD would assume ownership and operation of the Local Sewer Facilities;

WHEREAS, pursuant to two 1986 agreements, OCSD accepts IRWD wastewater flows for treatment from OCSD's Revenue Area 14 and, in turn, IRWD pays OCSD specified capital costs and operating expenses.¹ These two agreements are collectively referred to herein as the "1986 Agreements." Service Area 7 is not part of Revenue Area 14; thus, even if IRWD were to assume ownership and operation of the Local Sewer Facilities, IRWD would not be obligated to pay OCSD capital costs and operating expenses for flows from Service Area 7 pursuant to the 1986 Agreements;

1/12/2016

¹ The 1986 agreements are (1) the "Agreement for Purchase and Sale of Capacity Rights in Treatment, Disposal and Sewer Facilities" between OCSD's predecessors in interest the County Sanitation Districts of Orange County and County Sanitation District No. 14 dated January 1, 1986, and (2) the "Agreement Acquiring Ownership Interests, Assigning Rights and Establishing Obligations" between OCSD's predecessor in interest County Sanitation District No. 14 dated February 13.

WHEREAS, IRWD desires to acquire ownership and assume responsibility for the Local Sewer Facilities and to accept responsibility for providing local sewer service to Service Area 7;

WHEREAS, the transfer of ownership in and the assumption of responsibility for the Local Sewer Facilities to IRWD will require the approval of the Orange County Local Agency Formation Commission ("LAFCO");

WHEREAS, on June 10, 1992, OCSD's predecessor in interest entered into an agreement with IRWD relating to IRWD's Harvard Avenue trunk sewer ("HATS Agreement"). The HATS Agreement is attached hereto as Exhibit "C" and incorporated herein by reference. The purpose of the HATS Agreement was for OCSD's predecessor in interest to purchase a non-transferable capacity right in the Harvard Avenue Trunk Sewer ("HATS") and to establish an accommodation agreement between the parties so that certain flows from the East Tustin Hills area could be directed to the HATS. Previously, OCSD's predecessor in interest had pumped the flows to the west over the Tustin Hills, and ultimately to the Joint Wastewater Treatment Facilities operated by OCSD's predecessors in interest;

WHEREAS, OCSD is contractually obligated to provide treated wastewater effluent from its entire service area, including Service Area 7, to the Orange County Water District, and the territory in Service Area 7 both contributes to and benefits from the Groundwater Replenishment System by contributing wastewater and by using groundwater that is replenished by the System;

WHEREAS, following any transfer to IRWD of the Local Sewer Facilities, OCSD shall retain its power to provide regional sewer service within the entirety of Service Area 7; and

WHEREAS, if LAFCO approves the IRWD Proposal, the Parties agree that the transfer of the Local Sewer Facilities to IRWD shall be governed by the terms and conditions set forth in this Agreement to the extent such terms and conditions do not conflict with the conditions of approval imposed by LAFCO.

<u>AGREEMENT</u>

NOW, THEREFORE, in consideration of the mutual promises set forth herein, the Parties agree as follows:

1. <u>Recitals</u>. The recitals set forth above are true and correct and are incorporated into this Agreement.

2. <u>LAFCO Proceedings</u>.

a. Initiation of Proceedings. IRWD shall be solely responsible for the direct costs incurred in connection with the initiation and processing of the IRWD

Proposal, and LAFCO approval thereof, including without limitation any LAFCO deposits, application or processing fees, and the cost of preparing any legal descriptions, boundary surveys or maps. The IRWD Proposal consists of the following: the annexation of certain territory within Service Area 7 that is not within the current boundaries of IRWD.

- b. Public Outreach. IRWD has been and desires to continue to proactively inform the ratepayers within Service Area 7, and the general public, of the IRWD Proposal and the process for implementing it, including opportunities for public involvement. In furtherance of that desire, OCSD agrees to provide IRWD with a mailing list of the property owners in Service Area 7 (consistent with the format used for Proposition 218 notifications) in an Excel spreadsheet or an Access compatible (SQL) database format within 30 days of the Effective Date. In the written materials. IRWD shall accurately and fairly describe the IRWD Proposal and may indicate that the IRWD and OCSD have agreed to the terms and conditions of transfer should LAFCO approve the IRWD Proposal. IRWD shall provide OCSD an opportunity to review and approve the written material it intends to mail to the property owners in Service Area 7 prior to such mailing. OCSD shall approve, or request changes to, the written materials within ten days of receipt. If OCSD fails to approve or request revisions within 10 days, it shall be deemed to have approved the materials. OCSD shall approve, or request changes to, revised written materials that incorporate or respond to OCSD's requests for changes within 5 days of receipt, or the materials shall be deemed approved. All costs of producing such material and mailing it will be paid by IRWD.
- Cooperation. Each Party shall, within 5 days of the Effective Date, C. file with LAFCO a letter executed by the General Manager. The letter shall state that the Parties have entered into this Agreement and request that, if LAFCO approves the IRWD Proposal, that approval shall be subject to the terms and conditions of this Agreement. OCSD shall not oppose the IRWD Proposal. OCSD shall execute such documents and take such other actions to support and facilitate the processing of the IRWD Proposal as may be reasonably requested by IRWD, provided such actions shall not result in any cost or expense to OCSD (other than overhead and employee staff time). The Parties will cooperate and consult with one another in responding to questions and inquiries from LAFCO, the public and the press, and cooperate on a joint response in the event that LAFCO or LAFCO staff propose to alter the IRWD Proposal. Nothing in this section or elsewhere in this Agreement shall be construed to prohibit OCSD from negotiating with any other entity, at any time, regarding an agreement for the transfer of the Local Sewer Facilities to such other entity conditioned on LAFCO's approval.
- d. Tax Exchange Negotiations and Consultations. The Parties shall cooperate in seeking to have the Board of Supervisors adopt a property tax exchange resolution pursuant to Revenue and Taxation Code section 99 exchanging property tax from OCSD to IRWD. The Parties agree that in the tax exchange negotiation and consultation process they will jointly support and advocate for having all of the property tax associated with the Local Sewer Facilities be exchanged from OCSD to IRWD. In

Fiscal Year 2012-2013, the estimated property tax collected for the local sewers was \$287,000.00 (two hundred eighty seven thousand dollars).

3. <u>Transfer of Local Sewer Facilities.</u>

- a. LAFCO's approval of the IRWD Proposal is a condition precedent for all obligations set forth in this Section 3.
- b. After LAFCO approves the IRWD Proposal, OCSD and IRWD shall work cooperatively to complete the successful transfer of ownership and operation of the Local Sewer Facilities no later than December 31, 2016.
- c. Upon the Date of Reorganization, IRWD shall accept ownership of the Local Sewer Facilities and all maintenance responsibilities, as well as the responsibility for all sewer spill notification, reporting, and related regulatory activities.
- d. Prior to the effective date of LAFCO's approval of the IRWD Proposal and the requested reorganization ("Date of Reorganization"), IRWD shall fully execute and deliver to OCSD the Quitclaim Deed, attached hereto as Exhibit "B", transferring ownership of the Local Sewer Facilities from OCSD to IRWD.
- e. Within five (5) business days following the Date of Reorganization, OCSD shall submit the Quitclaim Deed for recordation in the Official Records, Orange County California. Upon recordation, OCSD shall transmit a conformed copy of the Quitclaim Deed to IRWD.
- f. Within five (5) business days following the Date of Reorganization, OCSD shall transfer to IRWD \$25,000,000.00 (twenty-five million dollars) via wire transfer of the Annual Sewer Service User Fee reserves attributable to the Local Sewer Facilities ("Disbursement").
- g. If, prior to the Date of Reorganization, OCSD identifies the need for a major repair or replacement of the Local Sewer Facilities, and after notifying IRWD of the identified need, OCSD conducts such major repair or replacement, the amount of reserves transferred with the Disbursement shall be reduced by the amount of the costs incurred by OCSD in connection with the required work.
- h. Within thirty (30) days following OCSD Board approval of the first Comprehensive Annual Financial Report following the Date of Reorganization, OCSD shall transfer to IRWD the remainder of the Annual Sewer Service User Fee reserves, if any, attributable to the Local Sewer Facilities.
- i. Upon the Date of Reorganization, OCSD shall transfer ownership of the following vehicles to IRWD: (a) a 2000 Sterling Vactor (OCSD vehicle 470, California license number 1067492, vehicle identification number (VIN) 2FZ6BJBB81AH61833), and (b) a 1995 FE42 Volvo Hydroflusher truck (OCSD vehicle

396, California license number 356619, vehicle identification number (VIN) 4V52AFHD0SR474402). These vehicles shall be provided to IRWD "as is" and with no warranties or representations whatsoever as to the condition of the vehicle, or the suitability of the vehicle for any purpose. IRWD hereby acknowledges that it has/will be granted the opportunity to inspect the vehicles and their maintenance records and has/will do so prior to the Date of Reorganization.

j. On or prior to the Date of Reorganization, OCSD shall allow IRWD to review, reference and utilize OCSD established specifications for line-cleaning, CCTV, rehabilitation, repairs and replacement, and similar services, as mutually agreed by the Parties.

k. Local Sewer Service User Fee.

- i. OCSD's Annual Local Sewer Service User Fee ("the Fee") shall be continued and following the Date of Reorganization, to the extent feasible, shall be collected by IRWD rather than by OCSD. OCSD collects the Fee by reporting it to the County of Orange, which collects it on the property tax roll, and IRWD intends to do the same. Should it not be feasible, due to statutory or County requirements, for responsibility for collection of the Fee for the 2016-2017 Fiscal Year to be transferred to IRWD, OCSD shall account for and transmit, within 21 business days of receipt, any such revenues it receives from the County that are attributable to the Fee imposed in Service Area 7. OCSD shall rescind the Fee, as it pertains to the Local Sewer Facilities, by no later than July 1, 2017, or at such earlier time as IRWD may enact its own local sewer service user fees.
- ii. IRWD shall indemnify, defend and hold harmless, OCSD, its officers, directors, employees and agents from and against any and all claims, actions, damages, liabilities, and expenses (including attorney's fees and reasonable expenses for litigation or settlement) in connection with or arising out of OCSD's assessment, distribution, and collection of the Fee, including without limitation any such claims asserting that the collection by OCSD and transfer of the Fee to IRWD violates Proposition 218, for OCSD's actions to collect the Fee on IRWD's behalf following the Date of Reorganization.
- I. Prohibition on Diversion of Wastewater. IRWD and OCSD agree that all existing and future parcels in Service Area 7 shall continue to be customers of OCSD for the purposes of sewage treatment in perpetuity. Except as provided for in the HATS Agreement, IRWD and OCSD further agree that the wastewater flows from these parcels will flow in perpetuity to OCSD, through the Sunflower Trunk and the Redhill Trunk as they currently flow on the Effective Date. The wastewater currently flowing from the parcels in Service Area 7 marked in green on the document attached hereto as Exhibit "D" through the Harvard Avenue Trunk Sewer shall continue to be treated in accordance with the HATS Agreement.

- 4. <u>Environmental Review</u>. IRWD shall act as lead agency for purposes of the IRWD Proposal, and shall be solely responsible for the preparation of all environmental documentation required pursuant to the California Environmental Quality Act ("CEQA").
- 5. <u>Cooperation</u>. Both Parties shall execute any further documents consistent with the terms of this Agreement, including documents in recordable form, necessary or appropriate to fulfill the obligations imposed by this Agreement.
- 6. <u>Term.</u> This Agreement shall commence on the Effective Date and continue in full force and effect through December 31, 2016. The Parties may mutually agree in writing to extend the term of this Agreement. The Agreement shall automatically terminate if LAFCO disapproves the IRWD Proposal.
- 7. <u>Notices</u>. All notices or other communications required or permitted hereunder shall be in writing and shall be personally delivered, sent by registered or certified mail, postage prepaid, return receipt requested, or delivered or sent by electronic transmission, and shall be deemed received upon the earlier of: (i) the date of delivery to the address of the person to receive such notice if delivered personally or by messenger or overnight courier; (ii) three (3) business days after the date of posting by the United States Post Office if by mail; or (iii) when sent if given by electronic transmission. Any notice, request, demand, direction, or other communication sent by electronic transmission must be confirmed within forty-eight (48) hours by letter mailed or delivered. Notices or other communications shall be addressed as follows:

To OCSD: Orange County Sanitation District

10844 Ellis Avenue Post Office Box 8127

Fountain Valley, CA 92708-7018

Attn: General Manager

To IRWD: Irvine Ranch Water District

15600 Sand Canyon Ave. Irvine, CA 92618-3100 Attn: General Manager

Either Party may from time to time, by written notice to the other, designate a different address and/or person which shall be substituted for the one above specified, and/or specify additional parties to be notified.

- 8. <u>Jurisdiction</u>. In the event of a dispute regarding performance or interpretation of this Agreement, the venue for any action to enforce or interpret this Agreement shall lie in the Superior Court of California for Orange County.
- 9. <u>Governing Law</u>. This Agreement shall be governed by the laws of the State of California.

- 10. <u>Entire Agreement</u>. This Agreement constitutes the entire understanding and agreement between the Parties and supersedes all previous negotiations between the Parties pertaining to the transfer of the Local Sewer Facilities in Service Area 7.
- 11. <u>Waiver</u>. A waiver of a breach of the covenants, conditions or obligations under this Agreement by either Party shall not be construed as a waiver of any succeeding breach of the same or other covenants, conditions or obligations of this Agreement.
- 12. <u>Modification</u>. Alteration, change or modification of this Agreement shall be in the form of a written amendment, which shall be signed by each Party.
- 13. <u>Severability</u>. Whenever possible, each provision of this Agreement shall be interpreted in such a manner as to be effective and valid under applicable law, but if any provision of this Agreement shall be invalid under the applicable law, such provision shall be ineffective only to the extent of such prohibition or invalidity, without invalidating the remainder of that provision, or the remaining provisions of this Agreement.
- 14. <u>No Obligation to Third Parties</u>. Execution and delivery of this Agreement shall not be deemed to confer any rights upon others, directly, indirectly or by way of subrogation, and shall not obligate either of the Parties hereto to any person or entity other than each other and their respective affiliates.
- 15. <u>Successors</u>. This Agreement and the provisions contained herein shall be binding upon and inure to the benefit of OCSD, IRWD, and their respective heirs, executors, administrators, personal representatives, successors and assigns.

16. <u>Indemnification</u>.

- a. IRWD shall indemnify, defend and hold harmless OCSD, its officers, directors, employees and agents from and against any and all claims, actions, damages, liabilities and expenses (including attorney's fees and reasonable expenses for litigation or settlement) for any loss or damage, including death, bodily injury or damage to or loss of use of property, caused by negligent acts or omissions or willful misconduct by the IRWD, its officers, directors, employees and agents in connection with or arising out of the execution or performance of this Agreement.
- b. OCSD shall indemnify, defend and hold harmless IRWD, its officers, directors, employees and agents from and against any and all claims, actions, damages, liabilities and expenses (including attorney's fees and reasonable expenses for litigation or settlement) for any loss or damage, including death, bodily injury or damage to or loss of use of property, caused by negligent acts or omissions or willful misconduct by OCSD, its officers, directors, employees and agents in connection with or arising out of the execution or performance of this Agreement.

- The Parties acknowledge that LAFCO policy requires applicants to defend, indemnify, hold harmless, and release LAFCO, its agents, officers, attorneys, and employees from any claim, action, or proceeding brought against any of them, the purpose of which is to attack, set aside, void, or annul the approval of the application or the environmental document that accompanies it. The parties further acknowledge that this indemnification obligation will include, but not be limited to, damages, costs, expenses, attorney fees, or expert witness fees that may be asserted by any person or entity, including the applicant, arising out of or in connection with the approval of the application. As the applicant, IRWD was required to execute such an indemnification agreement with LAFCO, and, as a result, IRWD may incur substantial costs paying for LAFCO's defense and indemnifying any liability. Notwithstanding anything to the contrary in the foregoing, if LAFCO does not approve the IRWD Proposal, OCSD agrees to pay one-half of IRWD's actual costs, associated with indemnifying LAFCO pursuant to the indemnification agreement it will be obligated to sign, as those costs are incurred; however, OCSD's payment hereunder shall not exceed \$100,000.00 (one hundred thousand dollars) in total. Furthermore, if LAFCO approves the IRWD Proposal, OCSD shall have no obligation to pay any of IRWD's actual costs associated with indemnifying LAFCO. IRWD shall promptly advise OCSD if the indemnification agreement it is obligated to sign as the applicant is materially different than described in this paragraph, and it shall notify OCSD if LAFCO notifies IRWD of a legal challenge covered by the indemnification agreement.
- 17. No Warranty of Title or Condition. OCSD makes no warranty or representation of any kind regarding its title to the Local Sewer Facilities, the condition of the Local Sewer Facilities, or the suitability of the Local Sewer Facilities for any purpose. IRWD has been granted an opportunity to fully inspect the Local Sewer Facilities and has done so as of the Effective Date. IRWD accepts the Local Sewer Facilities "as is", subject, however, to OCSD's representation and warranty that, in the actual knowledge of the District, there is no pending litigation or claim by any third party that would adversely and materially affect the suitability of the Local Sewer Facilities for their intended purpose.
- 18. <u>Authorization</u>. Each of the undersigned represents and warrants that he or she is duly authorized to execute and deliver this Agreement and that such execution is binding upon the entity for which he or she is executing this document.

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement on the dates set forth below.

ORANGE COUNTY SANITATION

DISTRICT

Ву	Date:
John Nielsen Chairman of the Board	
ATTEST:	
ByKelly Lore	_ Date:
Kelly Lore Clerk of the Board	
APPROVED AS TO FORM:	
Bradley R. Hogin General Counsel	
IRVINE RANCH WATER DISTRICT	
By Mary Aileen Matheis President of the Board of Direc	Date:
ATTEST:	
Ву	Date:
APPROVED AS TO FORM:	
Ed Casey	
Counsel	

EXHIBT "A"

SERVICE AREA 7



A-11

Exhibit "A"

EXHIBT "B"

QUITCLAIM DEED



NO FEE DOCUMENT
Government Code § 6103

RECORDING REQUESTED BY AND
WHEN RECORDED MAIL TO:

ORANGE COUNTY SANITATION DISTRICT P. O. Box 8127 Fountain Valley, California 92728

Attn: Clerk of the Board

The Space Above This Line Reserved For Recorder's Use Only

QUITCLAIM DEED

FOR VALUABLE CONSIDERATION, the receipt and sufficiency of which is hereby acknowledged, the ORANGE COUNTY SANITATION DISTRICT ("GRANTOR"), a duly organized County Sanitation District existing pursuant to California Health and Safety Code section 47000 *et seq.*, does hereby release, remise, and quitclaim to the IRVINE RANCH WATER DISTRICT ("GRANTEE"), a duly organized County Water District existing pursuant to California Water Code section 30000 *et seq.*, all its right, title and interest in the real property, sewer lines and appurtenant sewer facilities described and depicted in Attachments "1" and "2", appended hereto and made a part hereof (collectively, "Local Sewer Facilities") SUBJECT TO THE FOLLOWING DISCLAIMER:

No Warranty of Title or Condition

Grantor makes no warranty or representation of any kind regarding its title to the Local Sewer Facilities, the condition of the Local Sewer Facilities or the suitability of the Local Sewer Facilities for any purpose. Grantee has been granted an opportunity to fully inspect the Local Sewer Facilities and has done so. Grantee accepts the Facilities "as is".

IN WITNESS WHEREOF, this Quitclaim Deed has been executed by the Parties hereto.

[Signatures on the following page.]

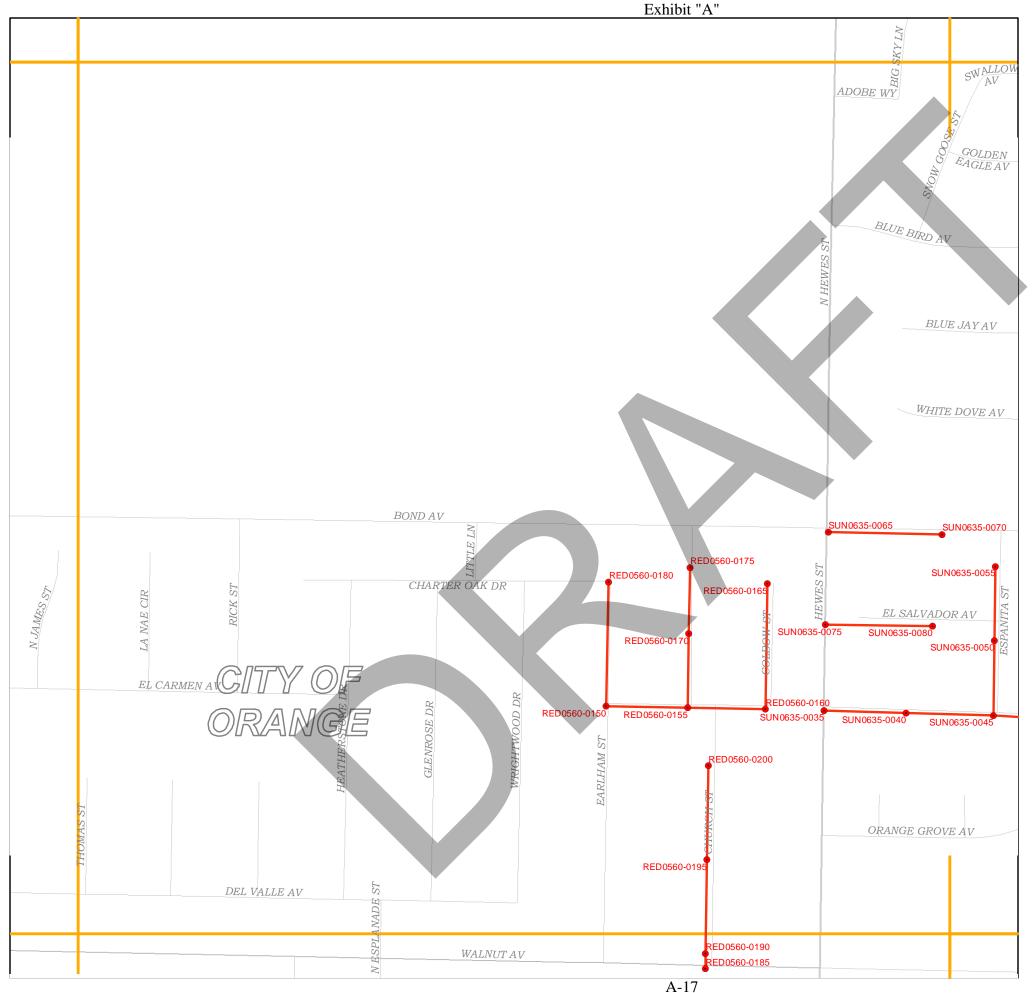
IRVINE RANCH WATER DISTRICT

By:	
Printed Nam	e: Mary Aileen Matheis
Title: Presi	dent of the Board of Directors
Date:	
By:	
Printed Nam	e:
Title:	
Date:	
ORANGE (COUNTY SANITATION DISTRICT
By:	
Printed Nam	e: John Nielsen
Title:	Chairman of the Board
Date:	
By:	
Printed Nam	e: Kelly Lore
Title:	Clerk of the Board
Date:	

ATTACHMENT "1" Description of Local Sewer Facilities



				Exhib	it "A"				
3143	3144	3145	3146	3147	3148	3149	3150	3151	3152
3243 E CHAPMAN	3244 VAV	3245 GITY	3246	3247	3248	3249	3250	3251	3252
3343	3344	ORAI 3345	NGE 3346	3347	3348	3349	3350	3351	3352
3443	3444	3445	3446	3447	3448	3449	3450	3451	3452
	yof Aana	3545	3546	3547	3548	3549	3550	3551	3552
3643 E 17TH \$	3644 ST	3645	3646	3647	3648	3 649	3650	3651	3652
3743	3744	3745	3746	3747	3748	3749	3750	3751	3752
5843 1STS	3844	3845	3846	3847	3848	3849	3850	3851	3852
3943	3944	3945	3946	3947	3948	3949	3950	3951	3952
4043	4044	4045	4046	4047	4048	4049	4050	4051	4052
4143	4144	4145	4146	4147	4148			vi ce A ransfe	
4243	4244	4245	4246	CITY OF TUSTIN	4248	4249		Map ©	4252
4343	4344	4345	4346	4347	4348	4349		S E	4352
/				1			EXH	BIT B	

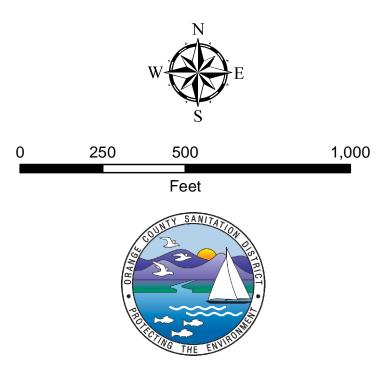


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer





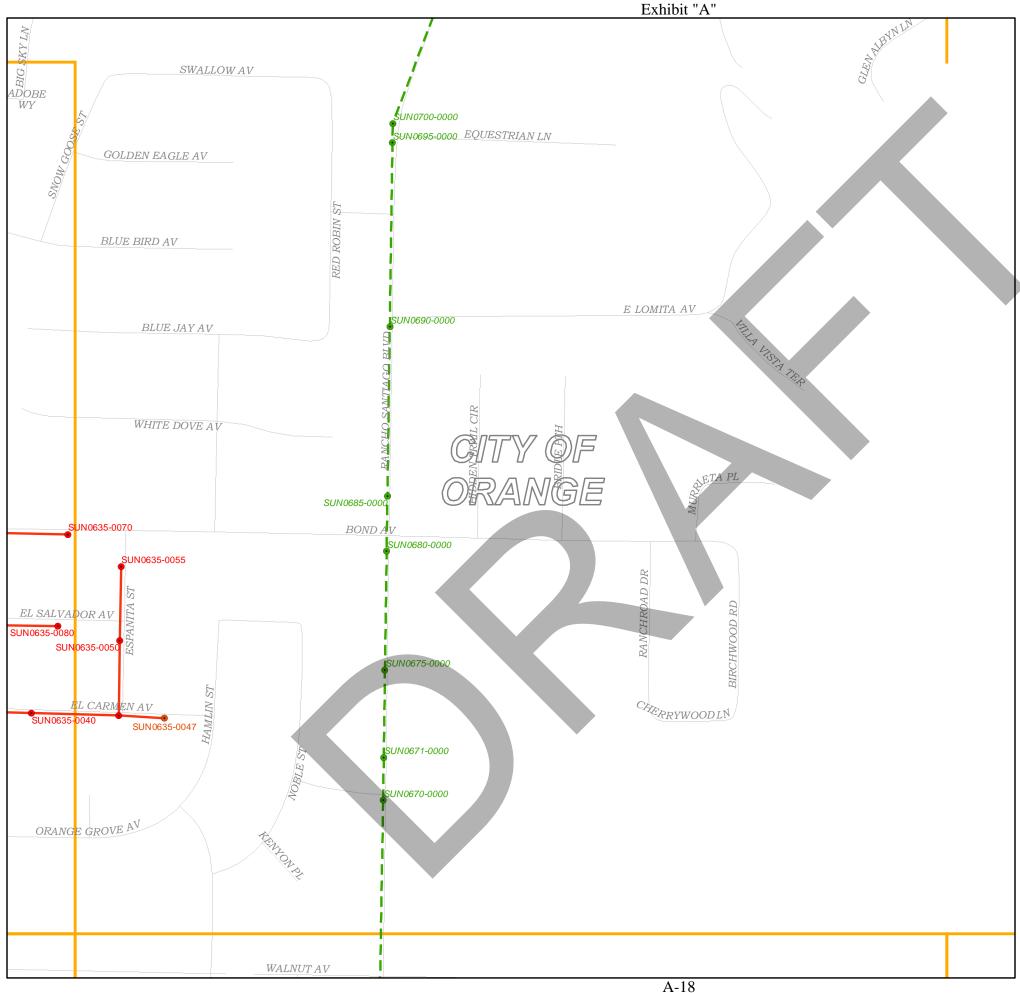
City of Tustin Boundary



OCSD Geographic Information Systems

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OCSD Page Number: 3147

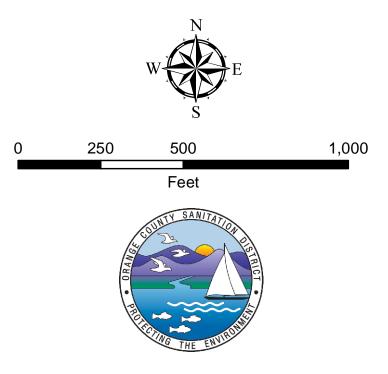


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

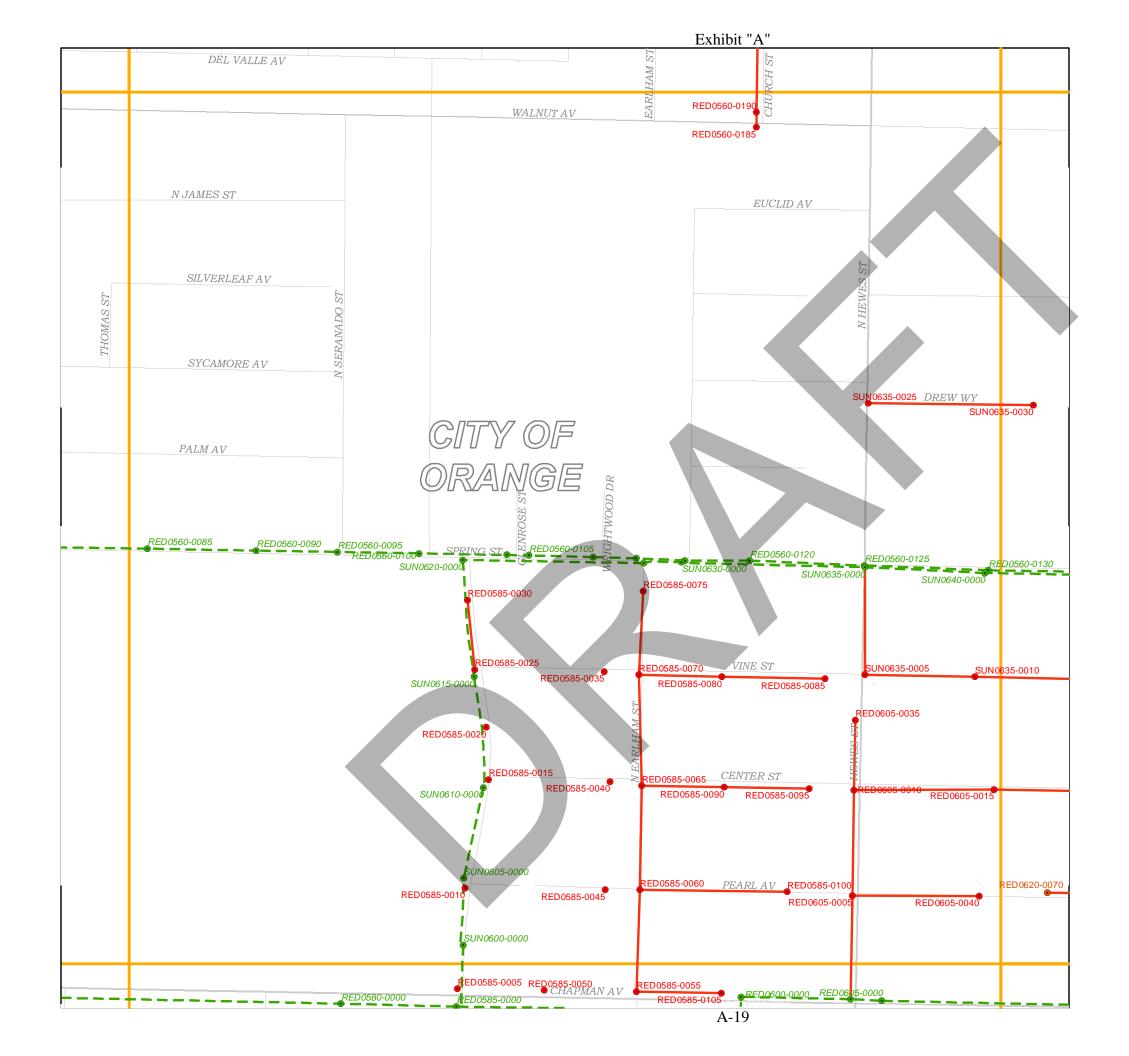
City of Tustin Boundary



OCSD Geographic Information Systems

 $\label{eq:map:county} \mbox{Map prepared by Orange County Sanitation District. This map is intended for } \\$ graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved. Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3148

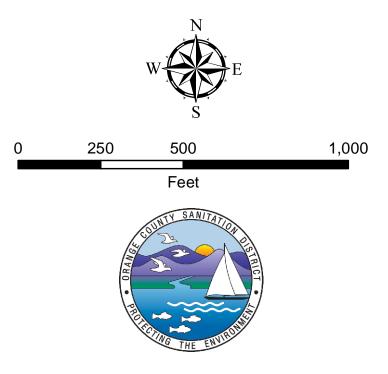


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer





City of Tustin Boundary

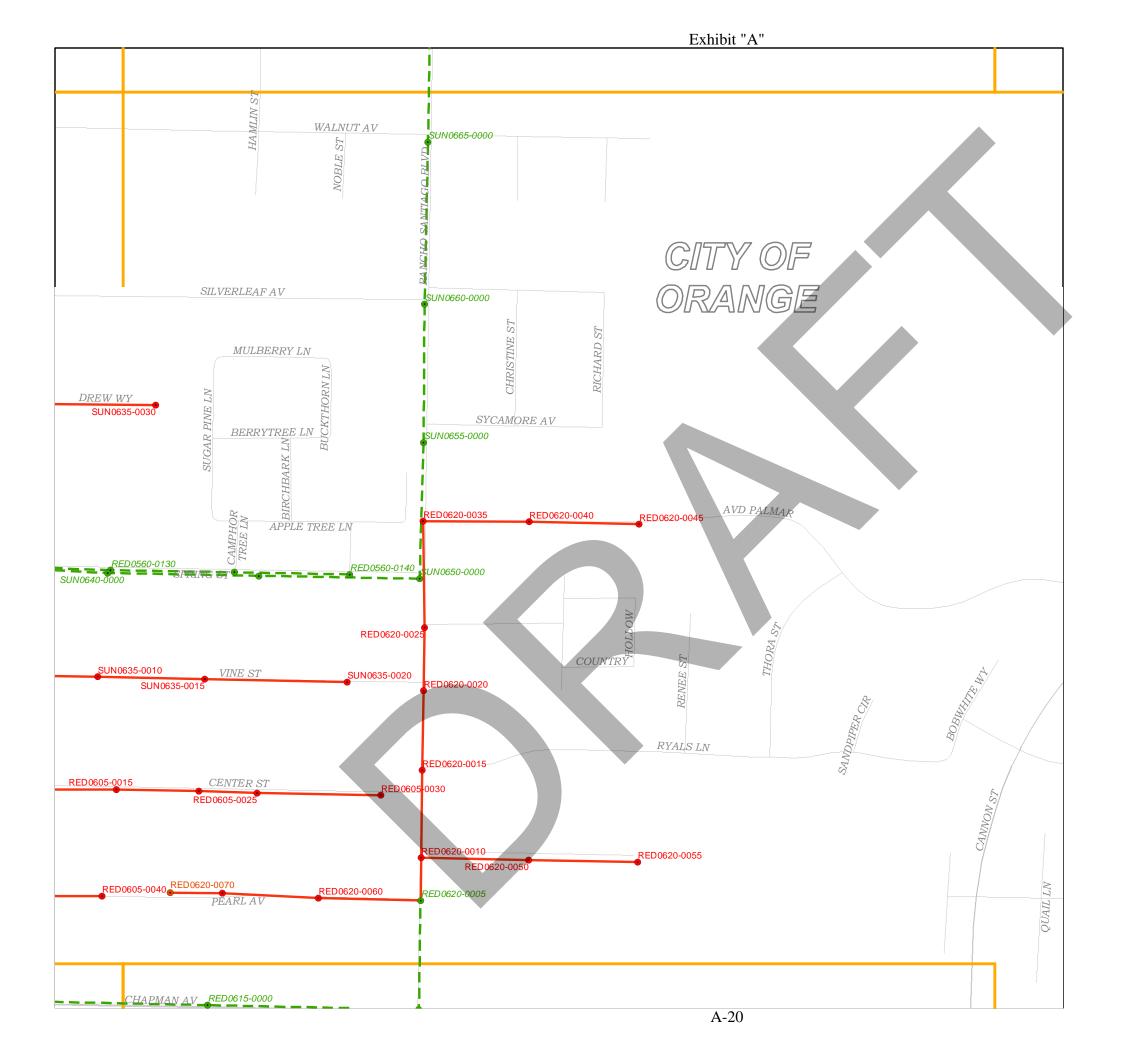


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3247

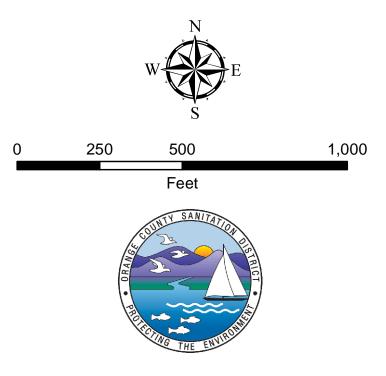


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer





City of Tustin Boundary

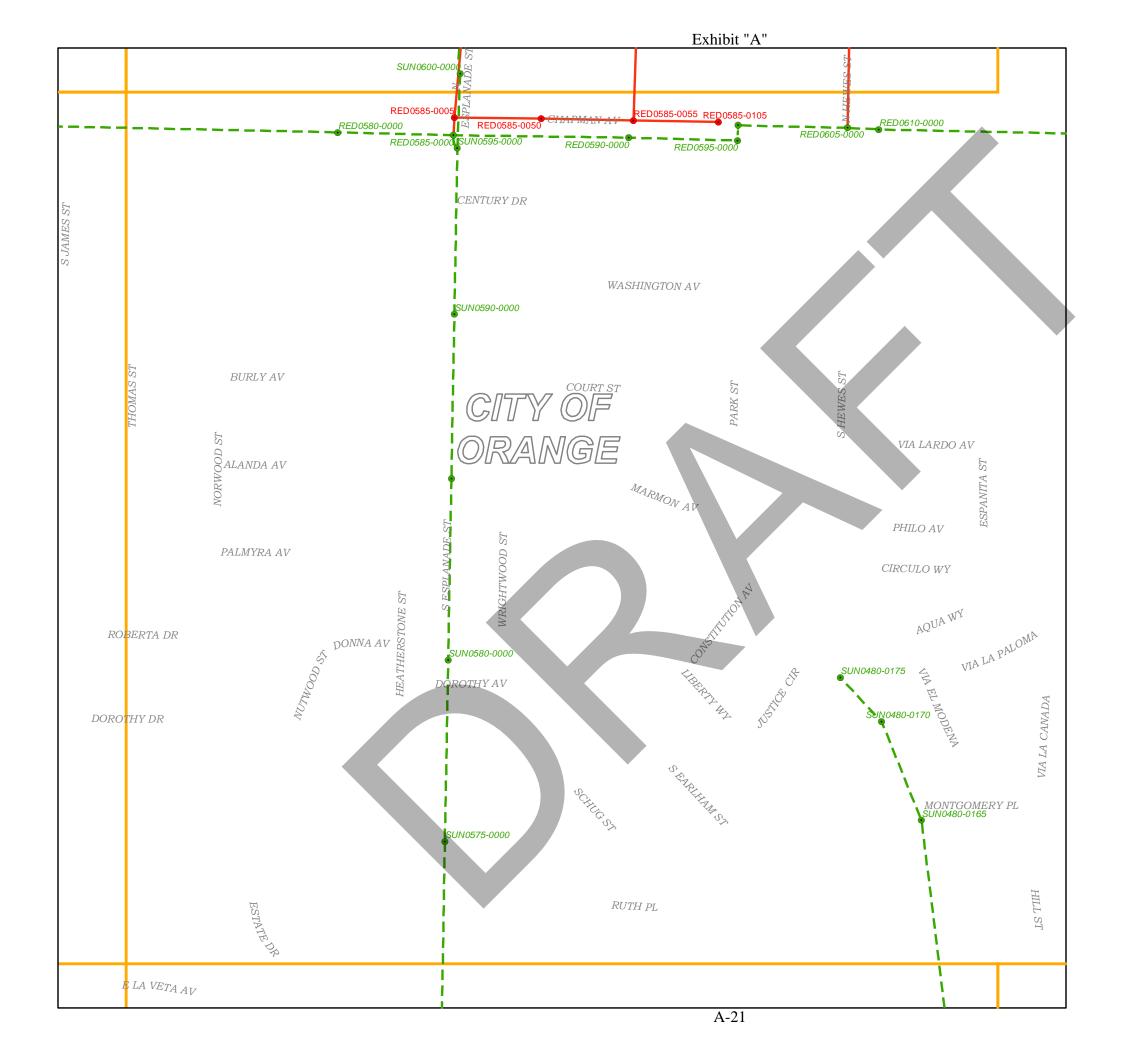


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3248

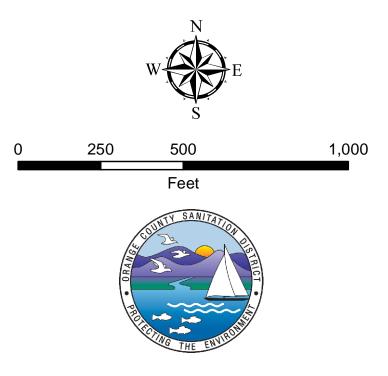


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary

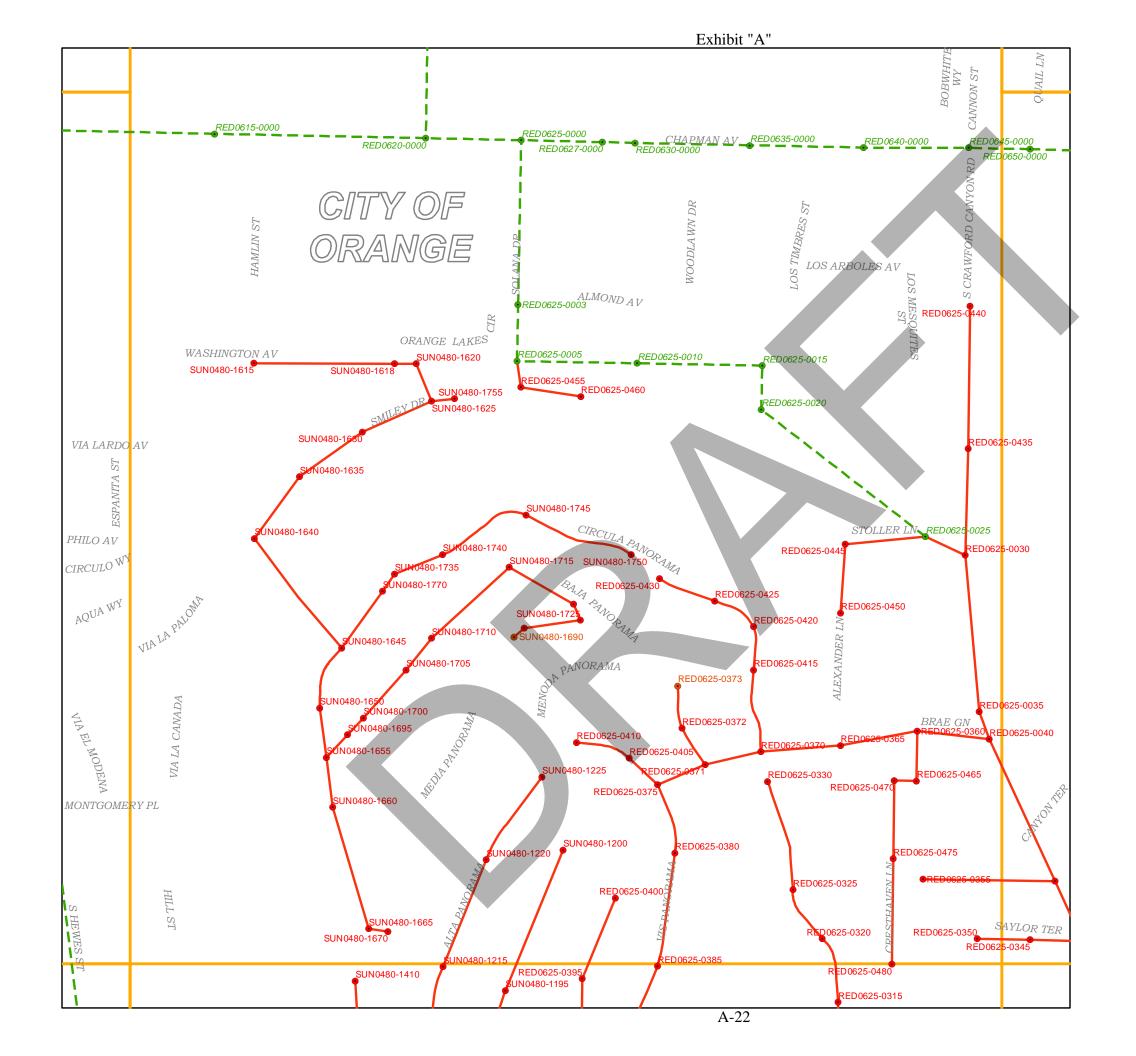


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3347

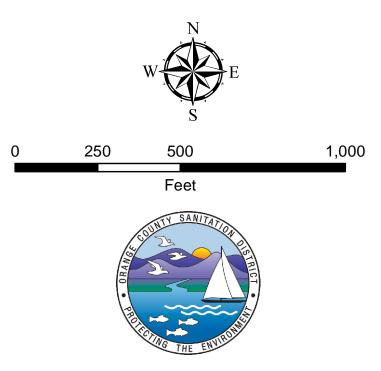


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary

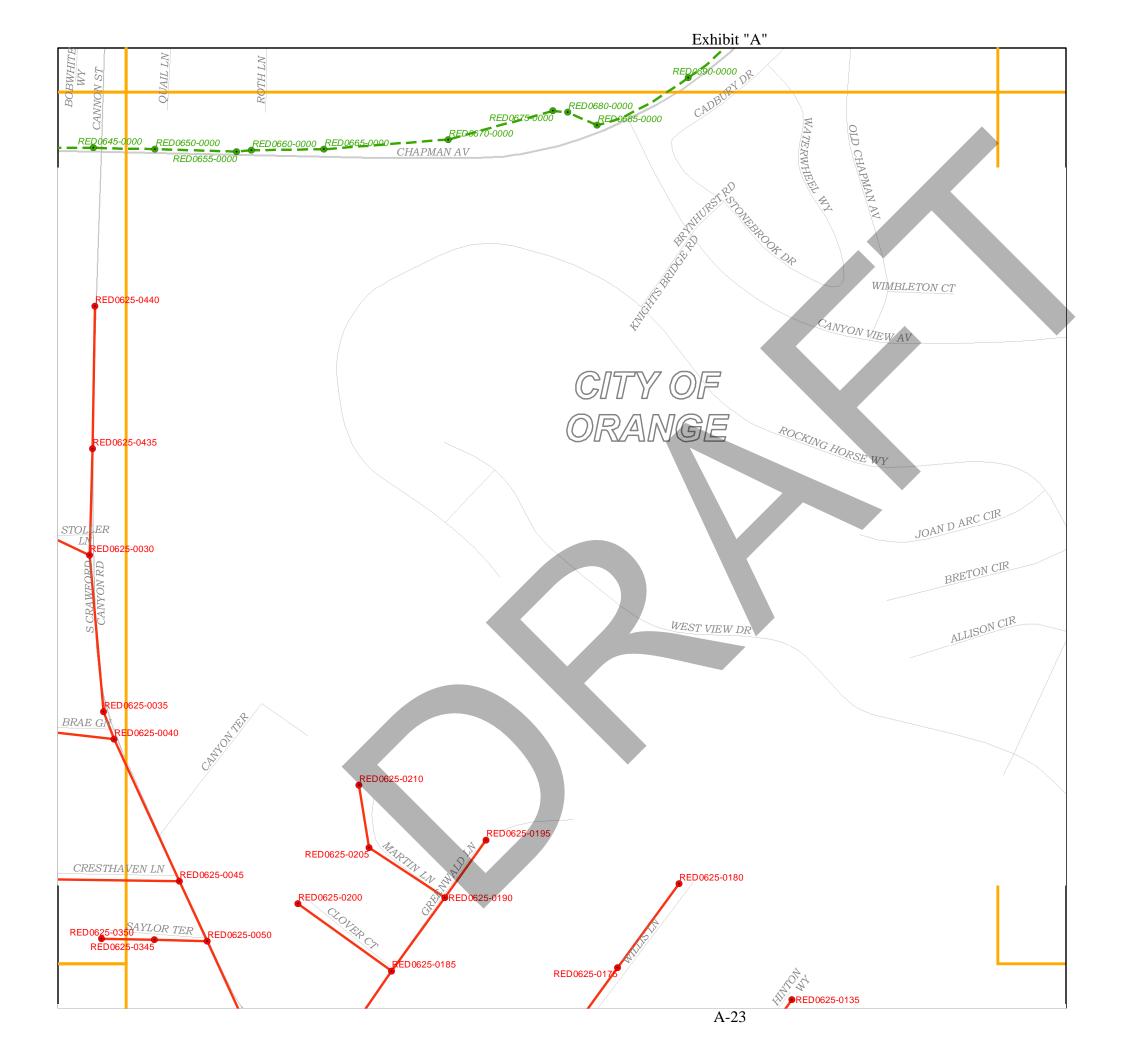


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3348

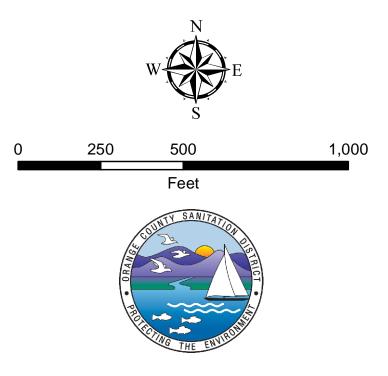


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary

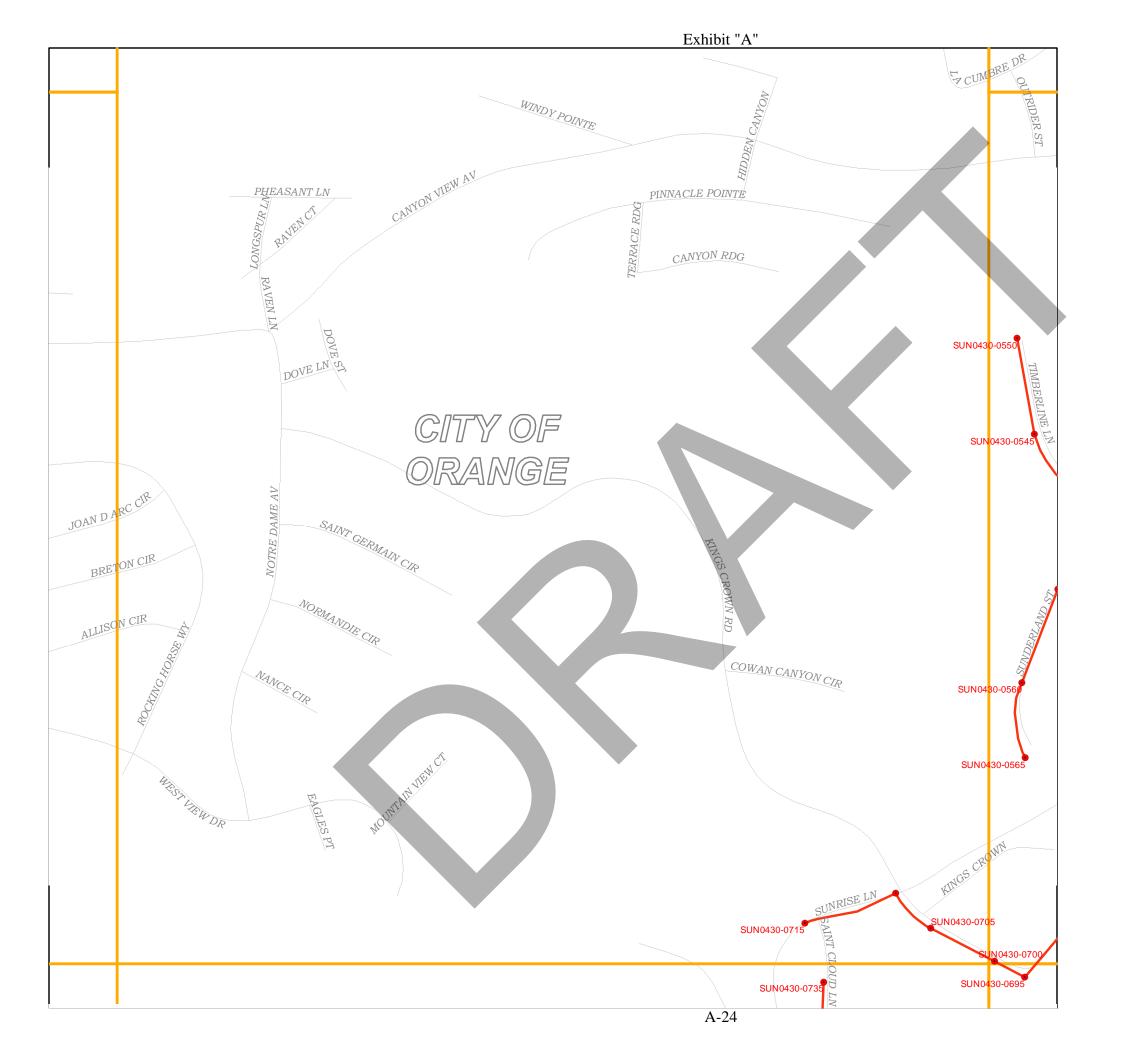


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

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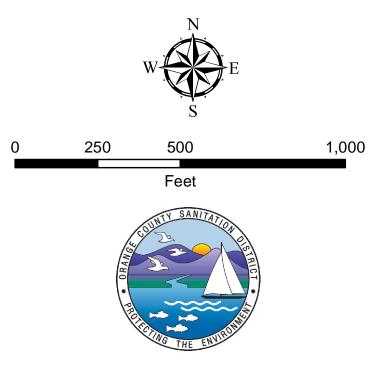


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer





City of Tustin Boundary



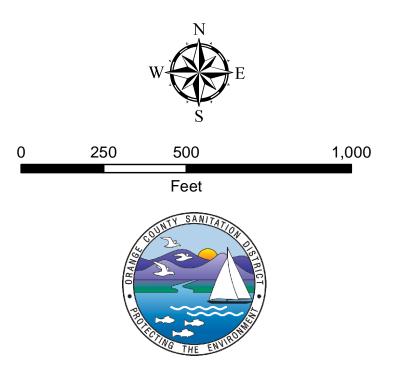
OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3350

- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer
- Local Sewers Proposed forTransfer
- Regional Sewers Retained By OCSD
- City of Tustin Boundary

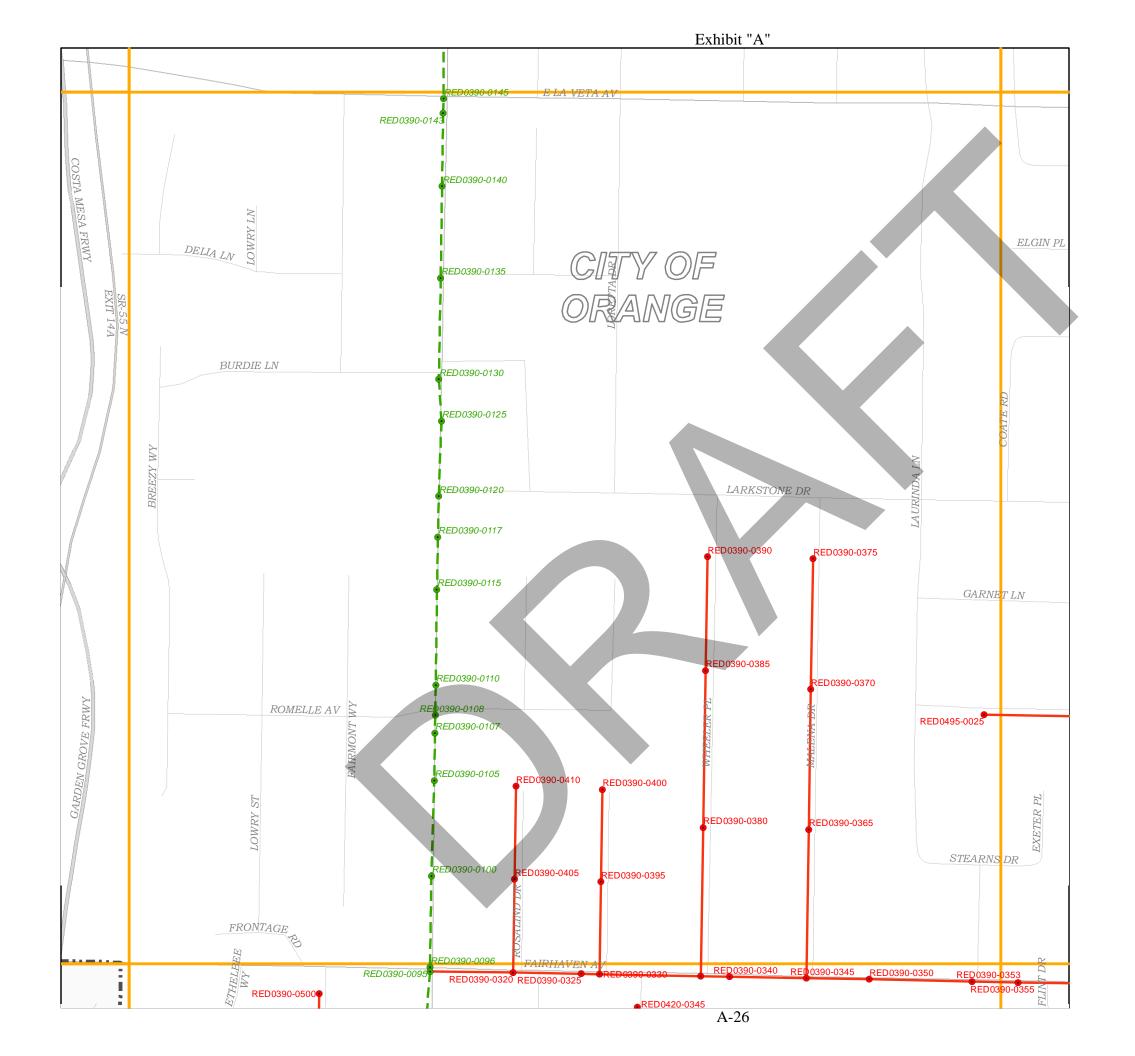


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

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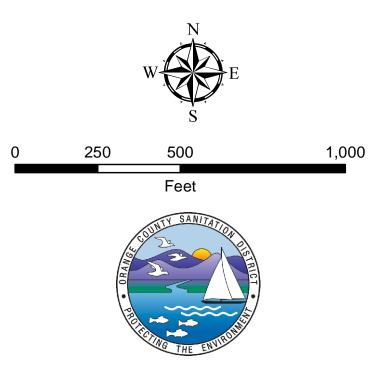


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary

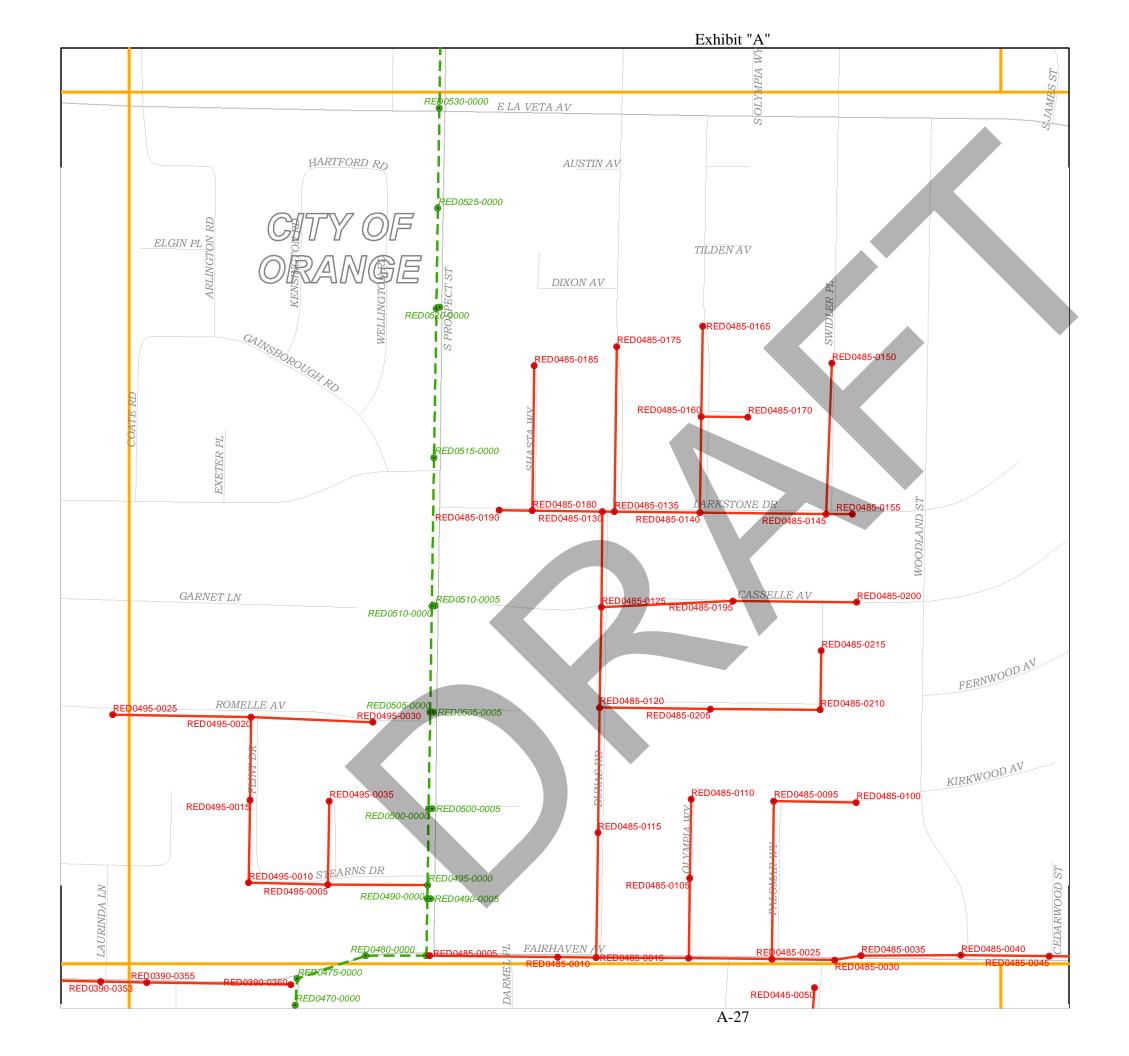


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3445

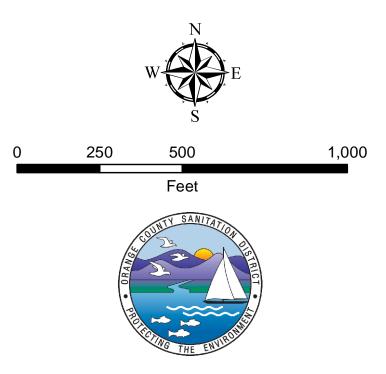


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary

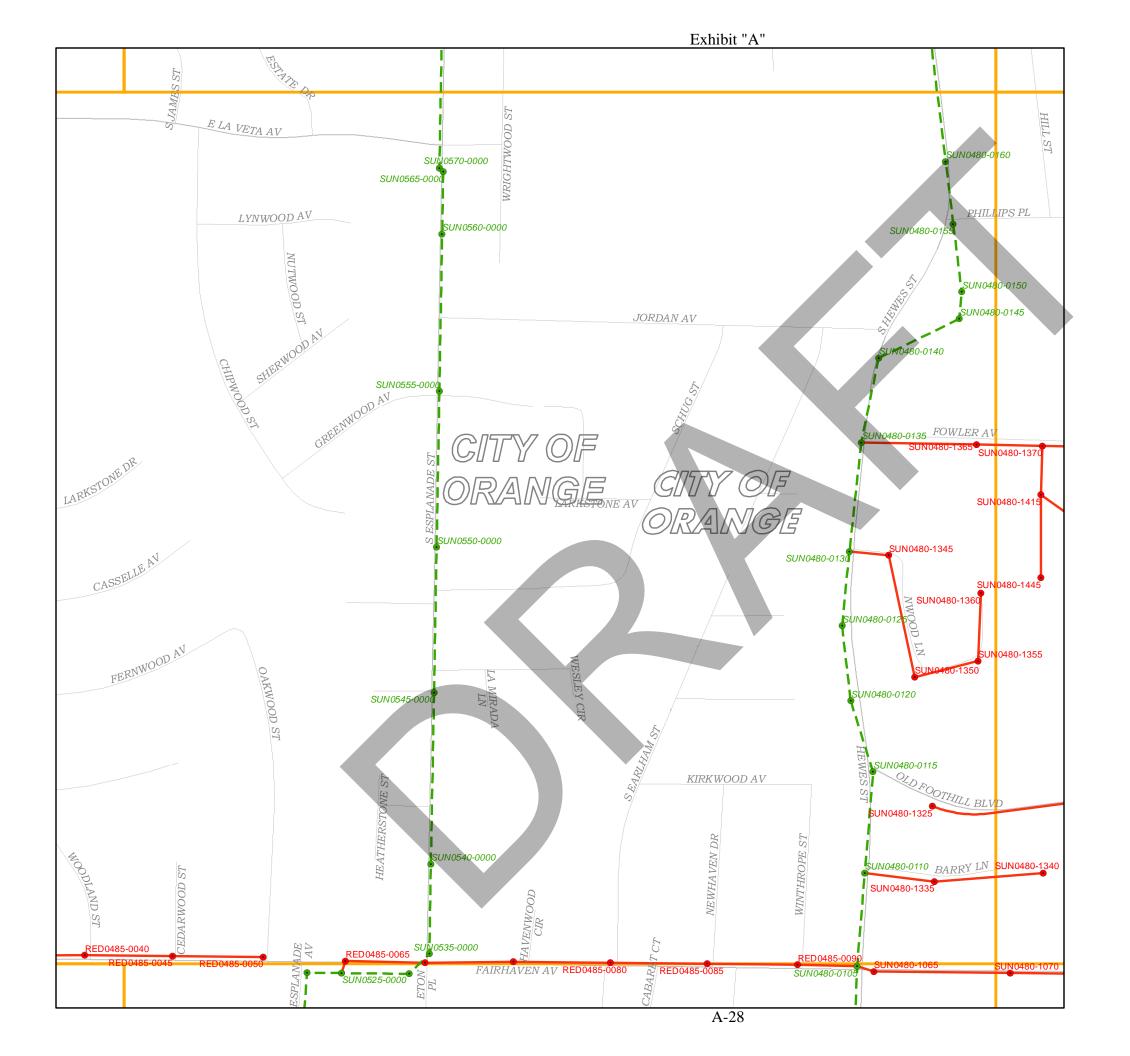


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3446

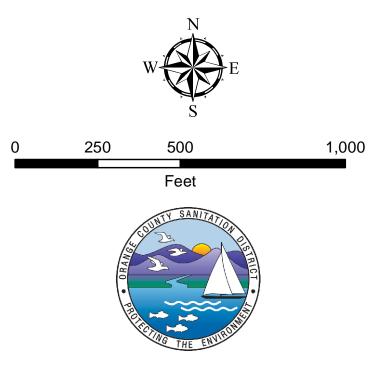


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary

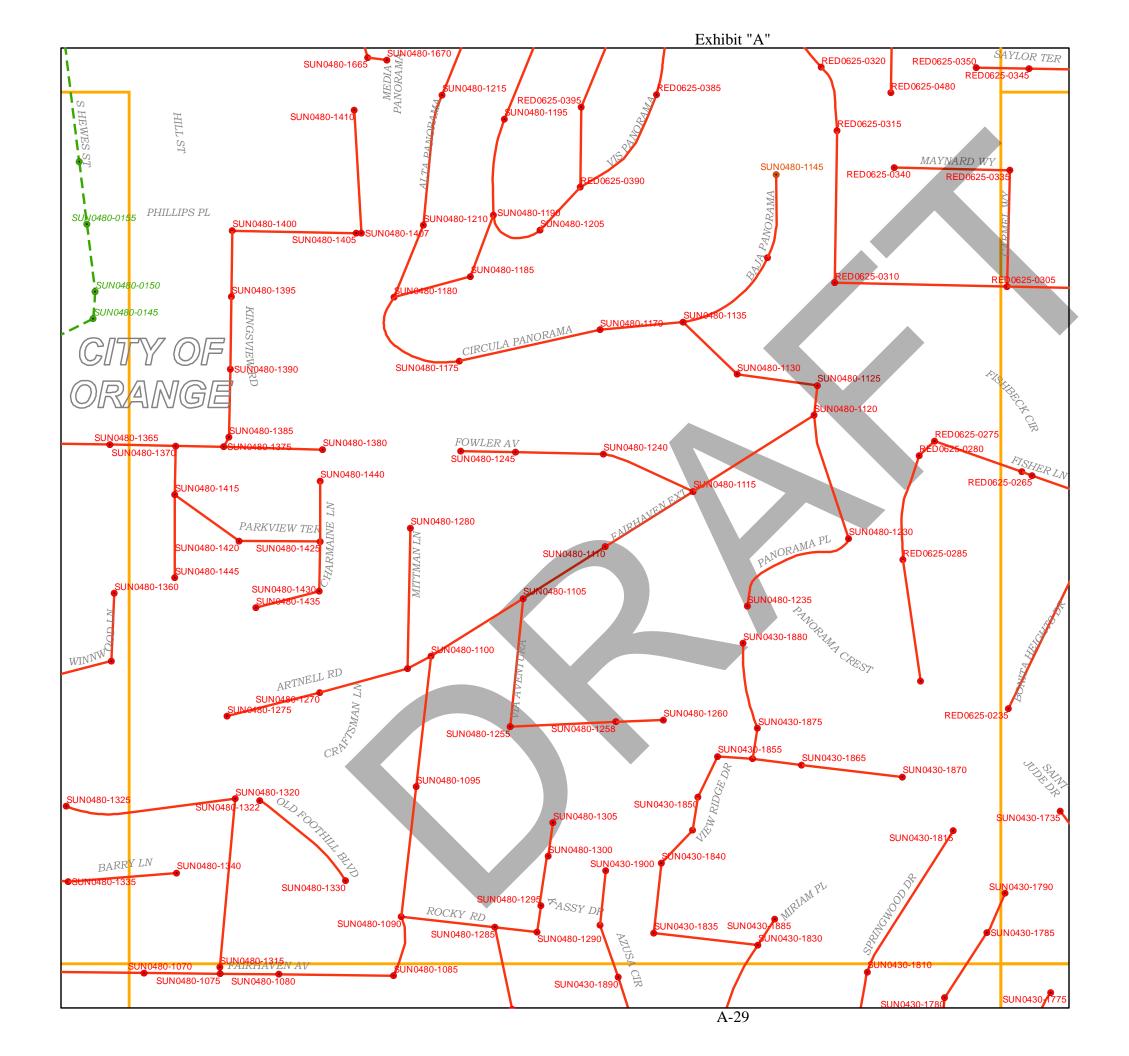


OCSD Geographic Information Systems

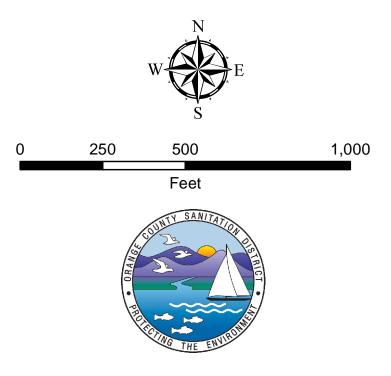
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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3447



- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer
- Local Sewers Proposed forTransfer
- Regional Sewers Retained By OCSD
- City of Tustin Boundary

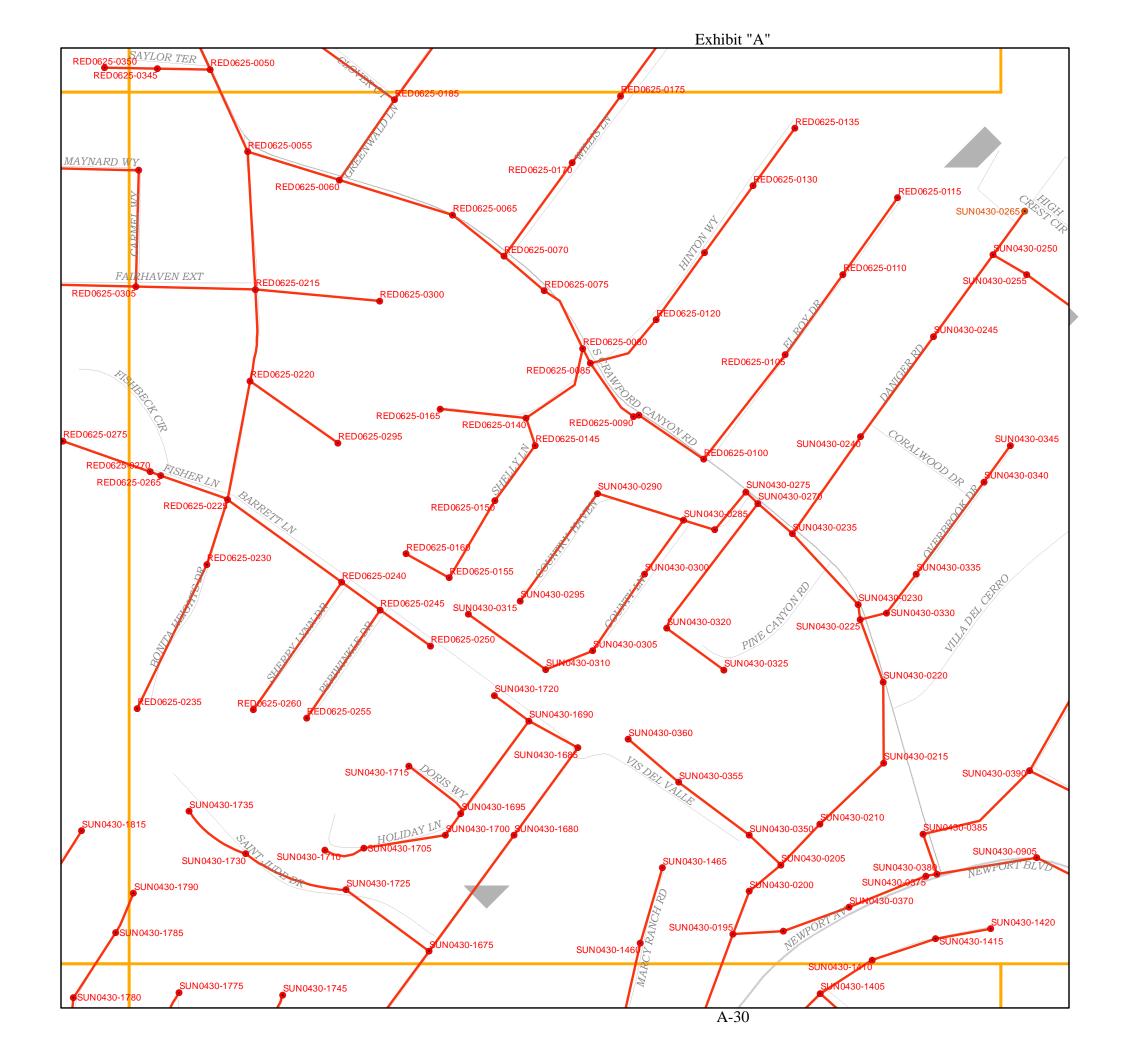


OCSD Geographic Information Systems

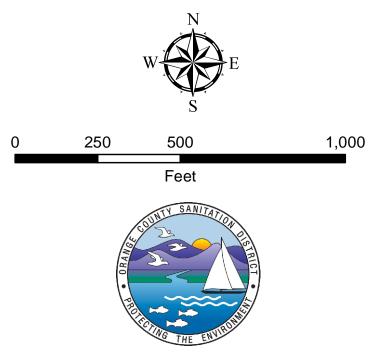
Map prepared by Orange County Sanitation District. This map is intended for graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved.

Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3448



- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer
- Local Sewers Proposed forTransfer
- Regional Sewers Retained By OCSD
- City of Tustin Boundary

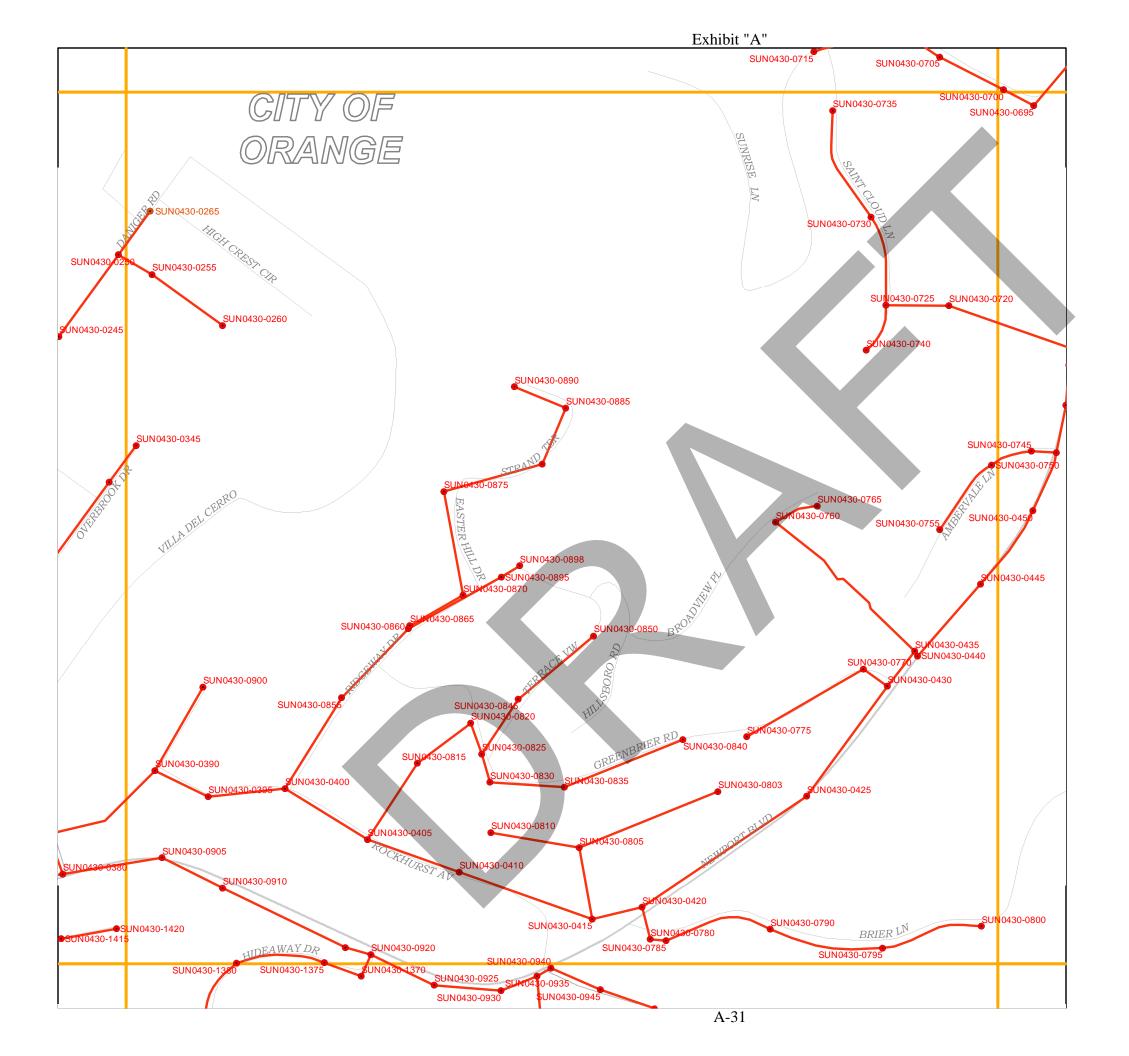


OCSD Geographic Information Systems

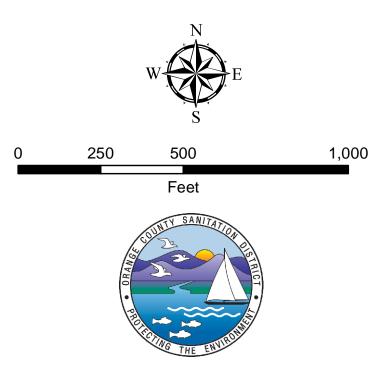
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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3449



- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer
- Local Sewers Proposed forTransfer
- Regional Sewers Retained By OCSD
- City of Tustin Boundary



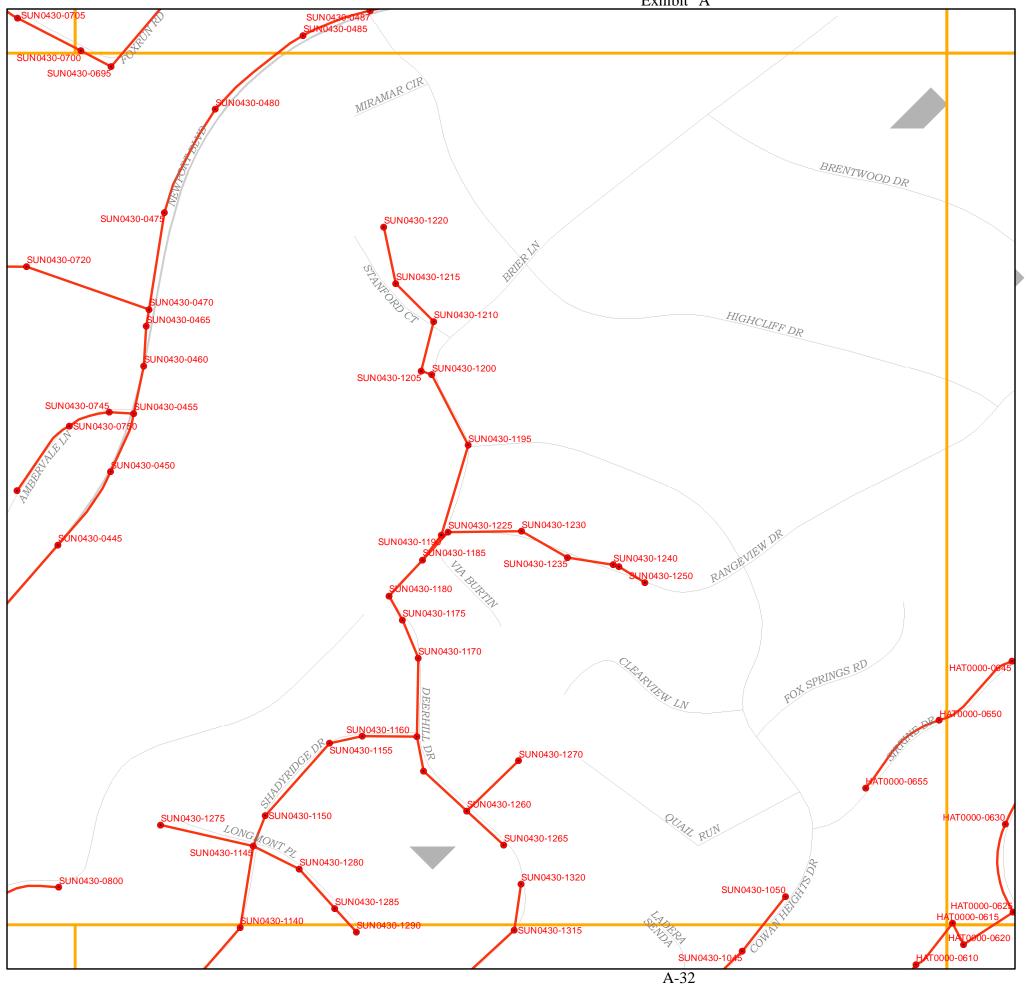
OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3450

Exhibit "A"



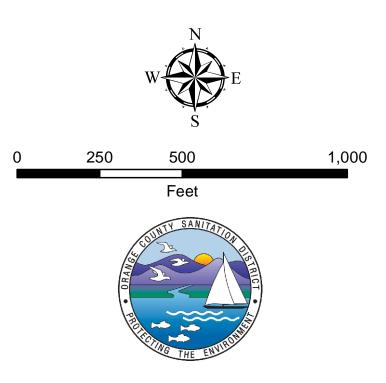
LOCAL SERVICE AREA 7 SEWER TRANSFERS

- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer





City of Tustin Boundary



OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3451

A-33

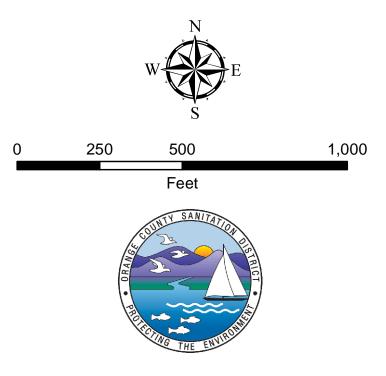
LOCAL SERVICE AREA 7 SEWER TRANSFERS

- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary

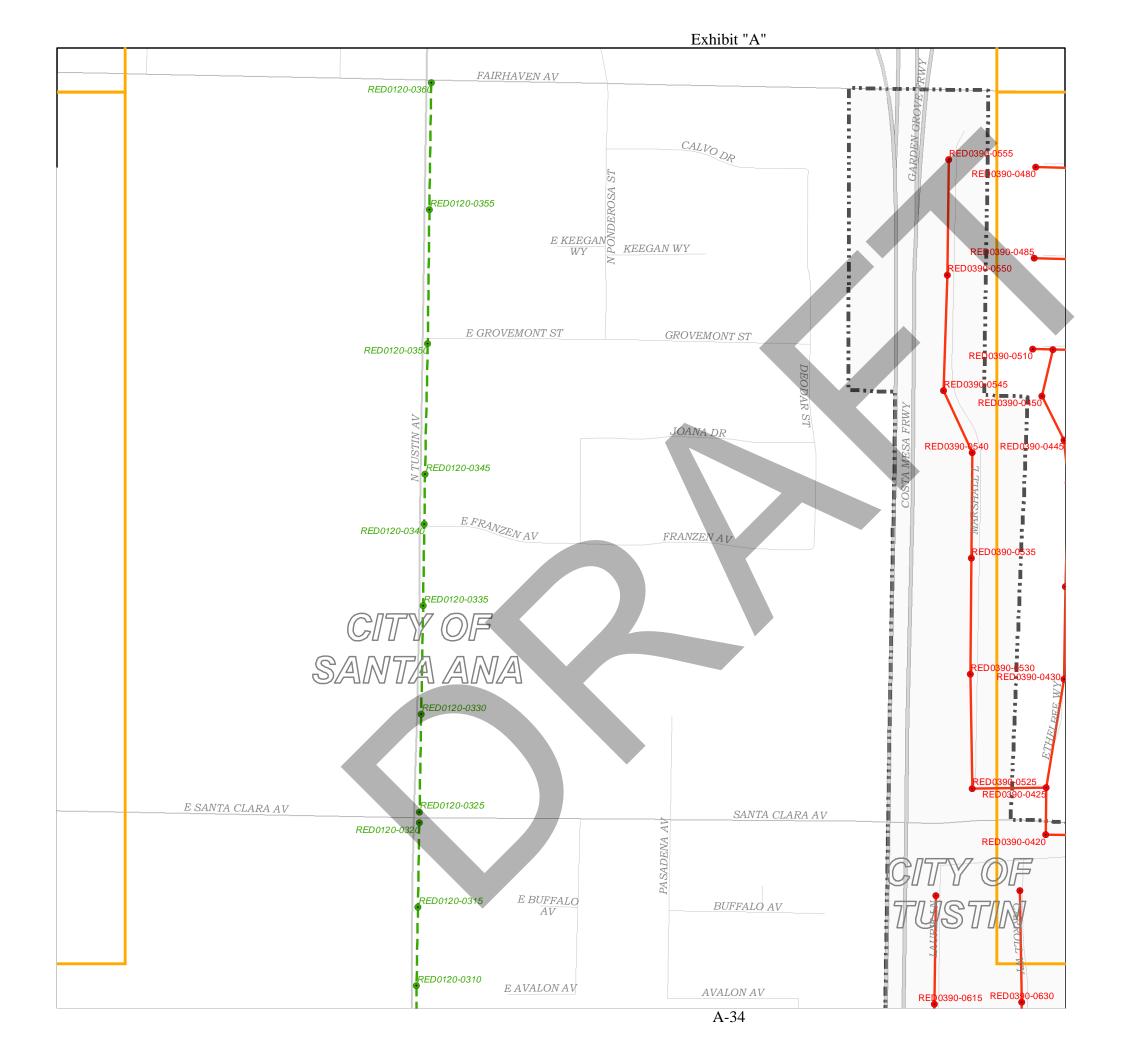


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3452

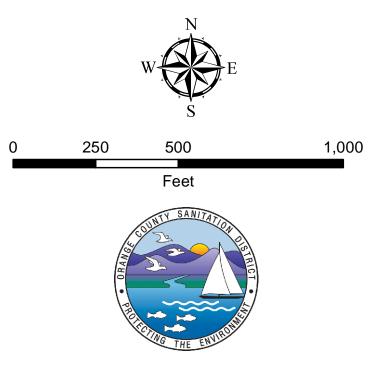


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary

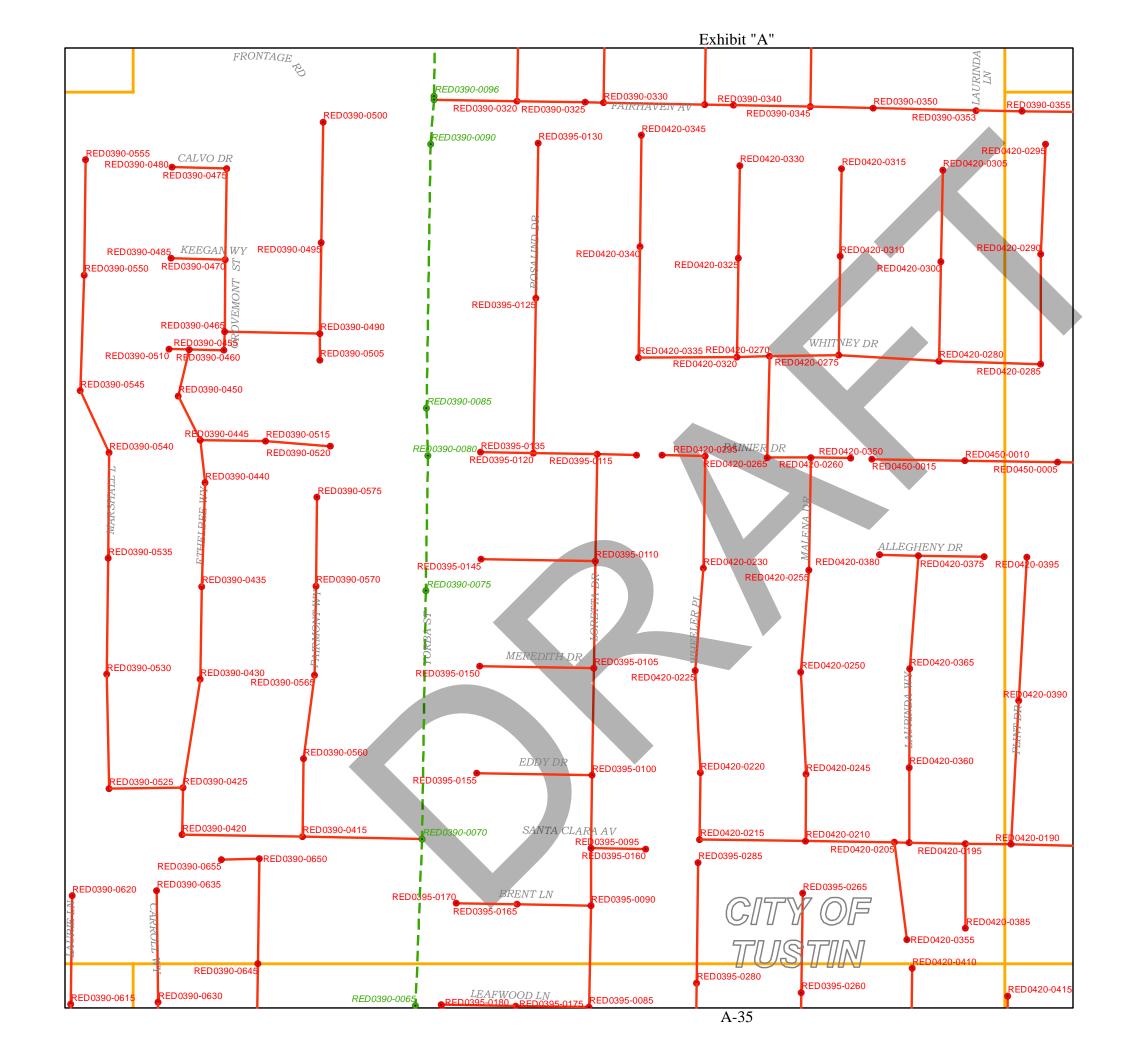


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

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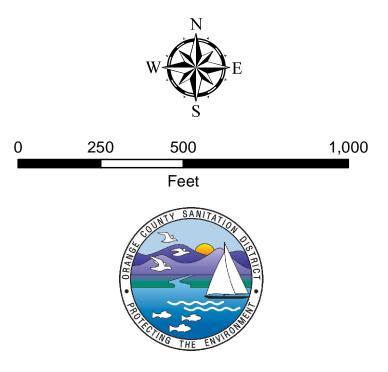


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary

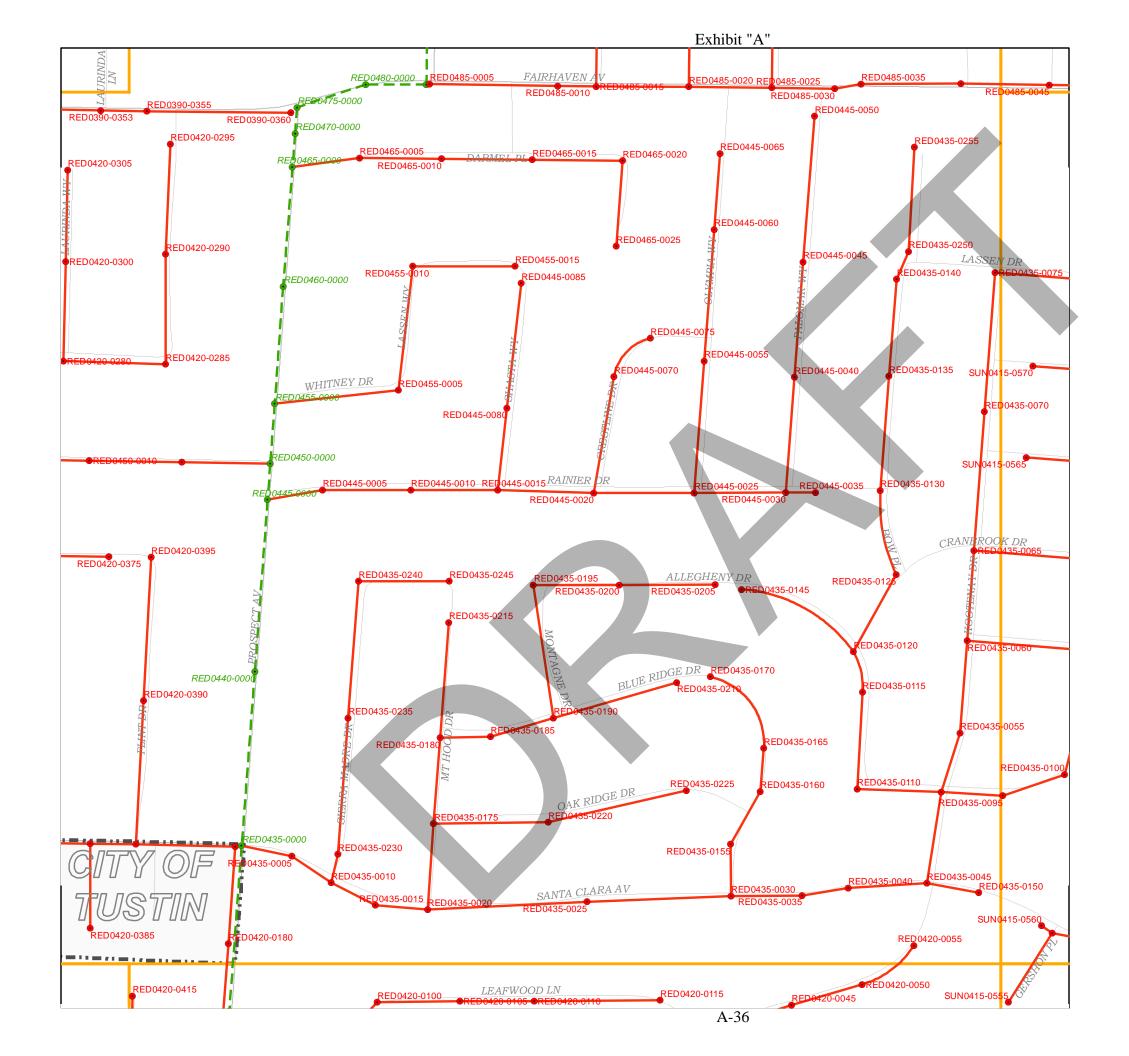


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3545

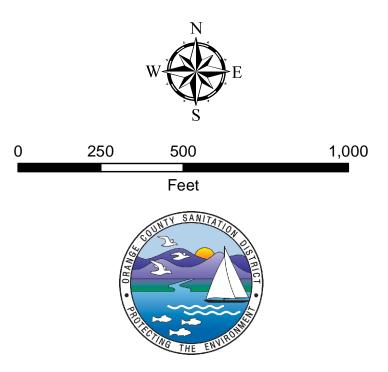


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary



OCSD Geographic Information Systems

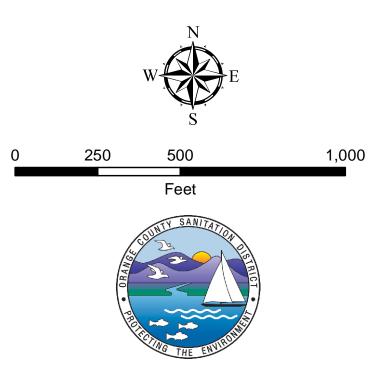
Map prepared by Orange County Sanitation District. This map is intended for graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved.

Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3546



- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer
- Local Sewers Proposed forTransfer
- Regional Sewers Retained By OCSD
- City of Tustin Boundary

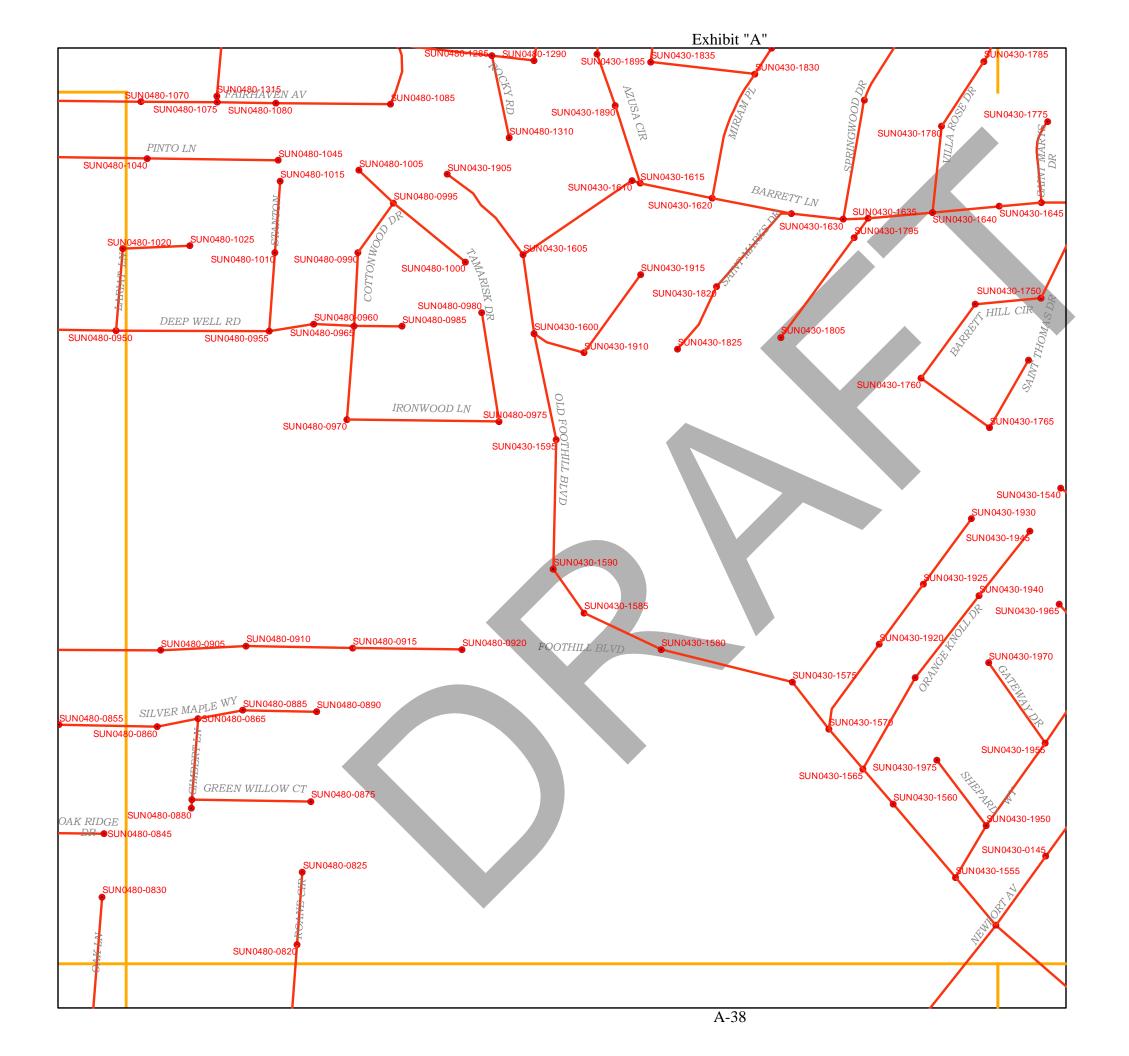


OCSD Geographic Information Systems

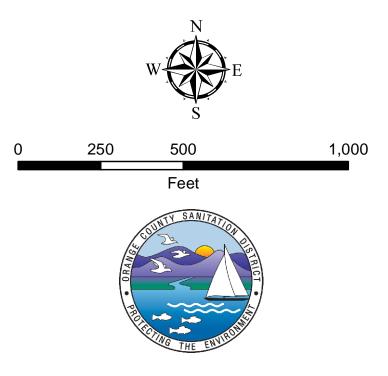
Map prepared by Orange County Sanitation District. This map is intended for graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved.

Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3547



- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer
- Local Sewers Proposed forTransfer
- Regional Sewers Retained By OCSD
- City of Tustin Boundary

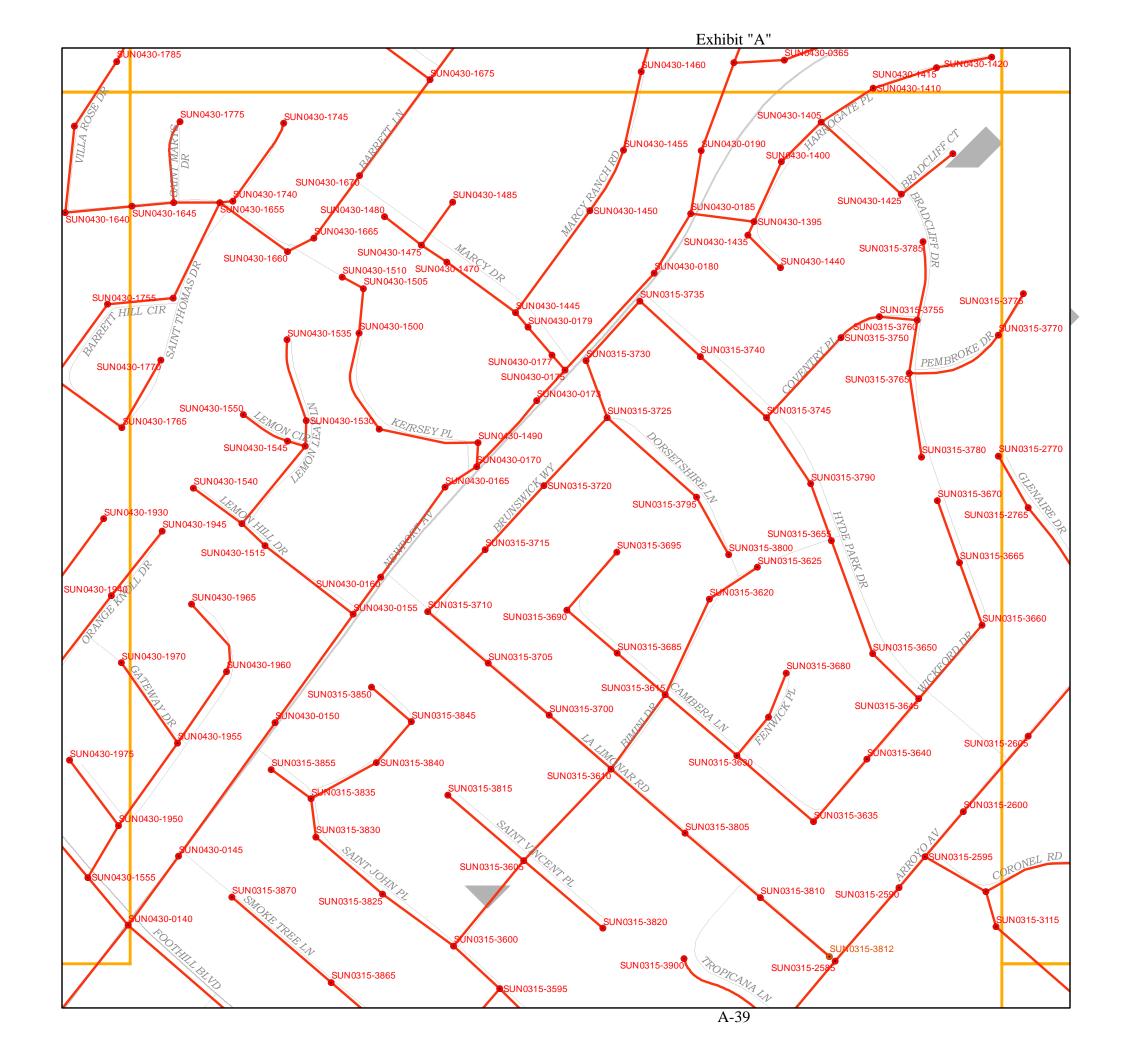


OCSD Geographic Information Systems

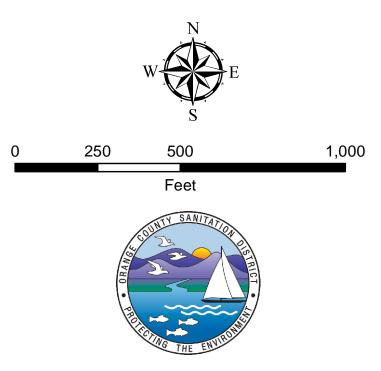
Map prepared by Orange County Sanitation District. This map is intended for graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved.

Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3548



- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer
- Local Sewers Proposed forTransfer
- Regional Sewers Retained By OCSD
- City of Tustin Boundary

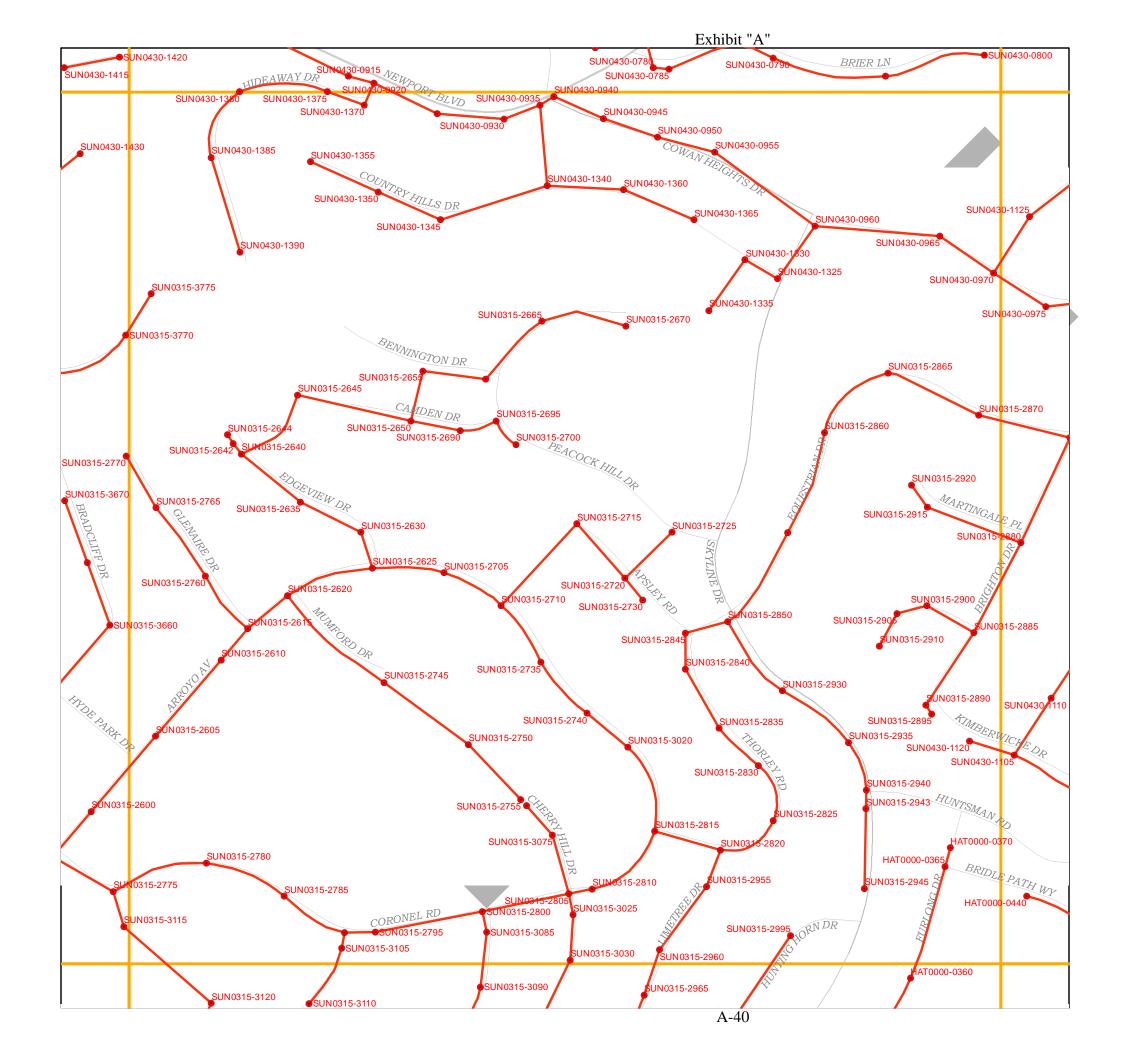


OCSD Geographic Information Systems

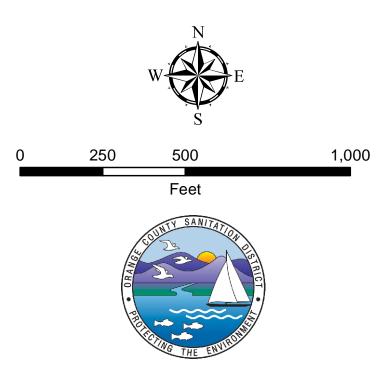
Map prepared by Orange County Sanitation District. This map is intended for graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved.

Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3549



- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer
- Local Sewers Proposed forTransfer
- Regional Sewers Retained By OCSD
- City of Tustin Boundary

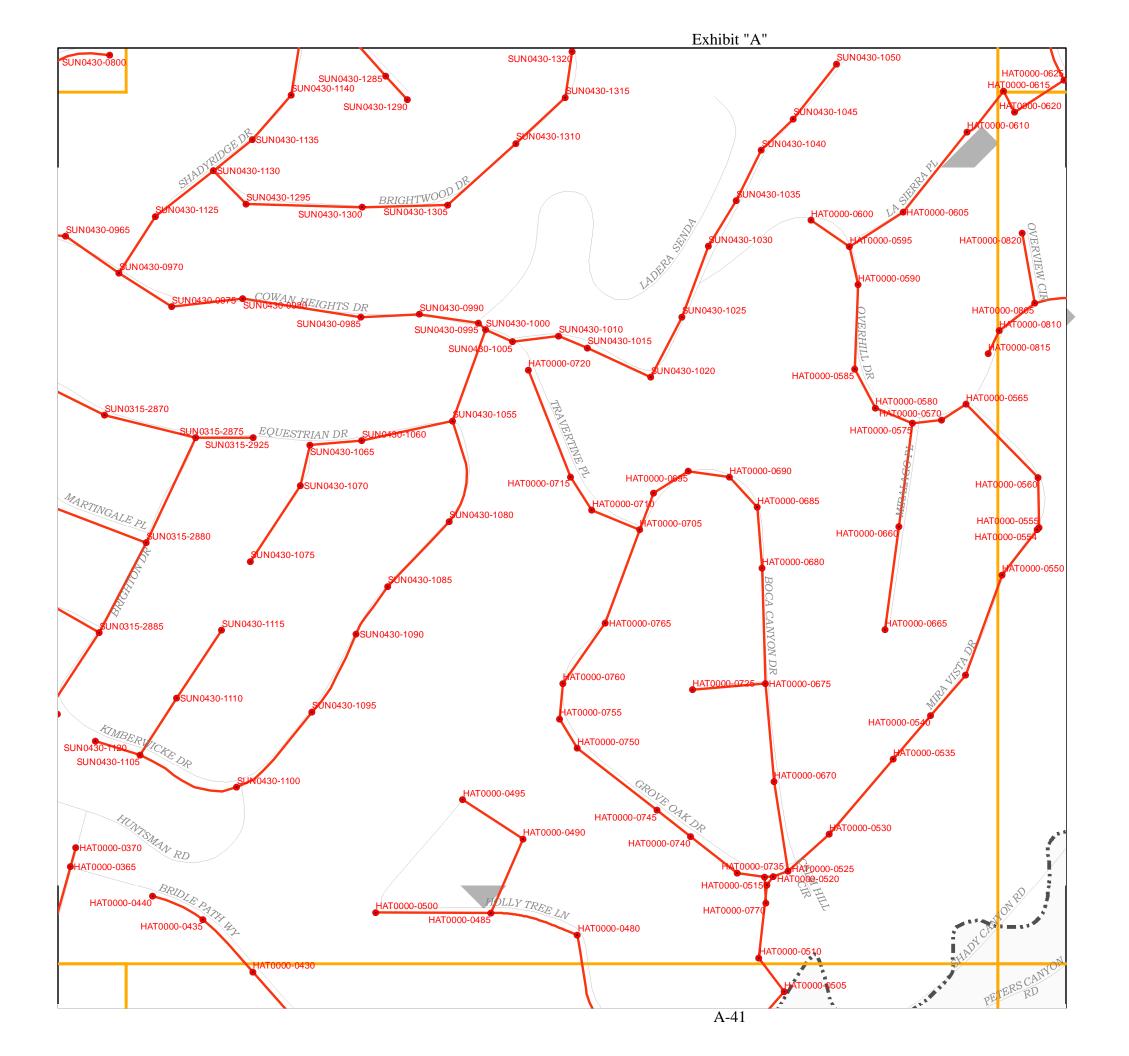


OCSD Geographic Information Systems

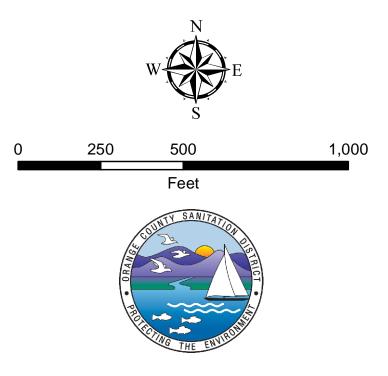
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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3550



- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer
- Local Sewers Proposed forTransfer
- Regional Sewers Retained By OCSD
- City of Tustin Boundary

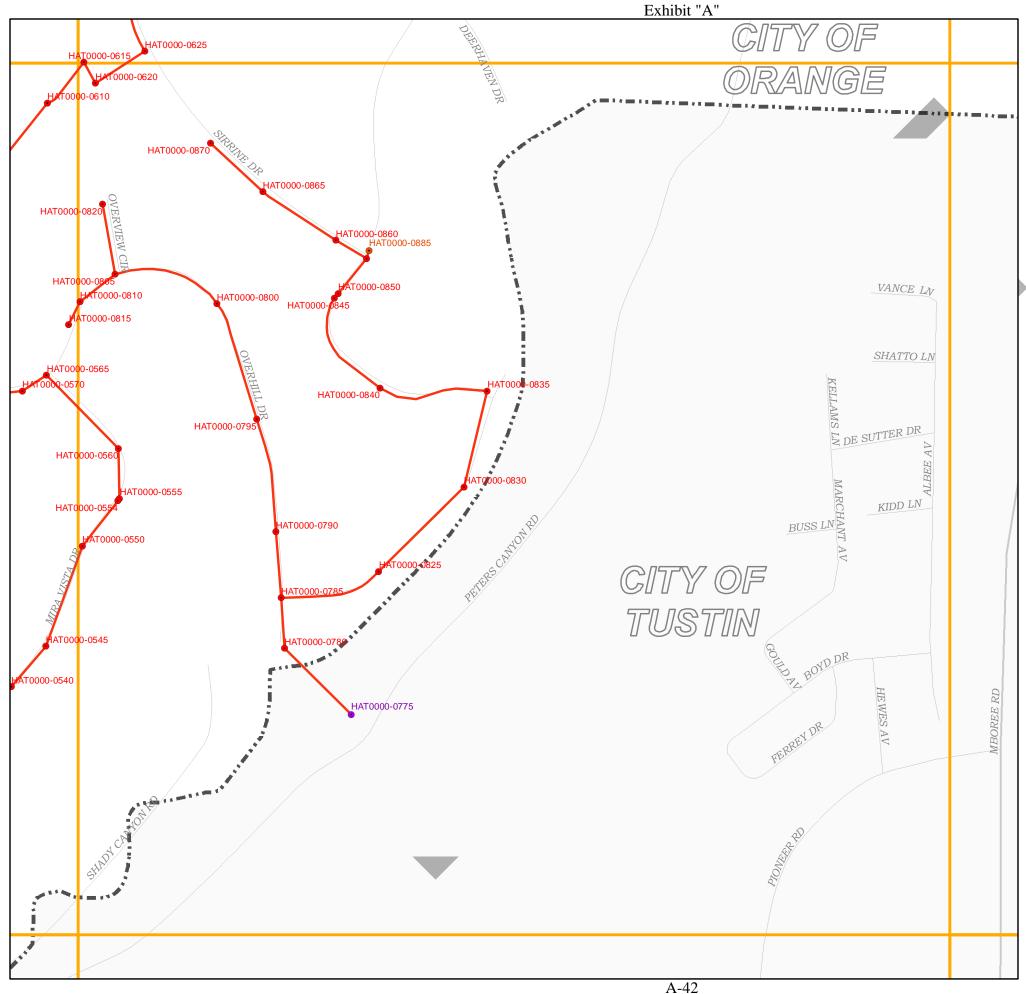


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3551

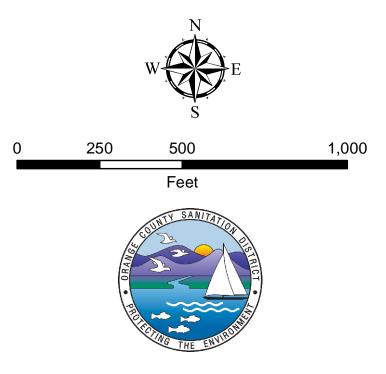


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer





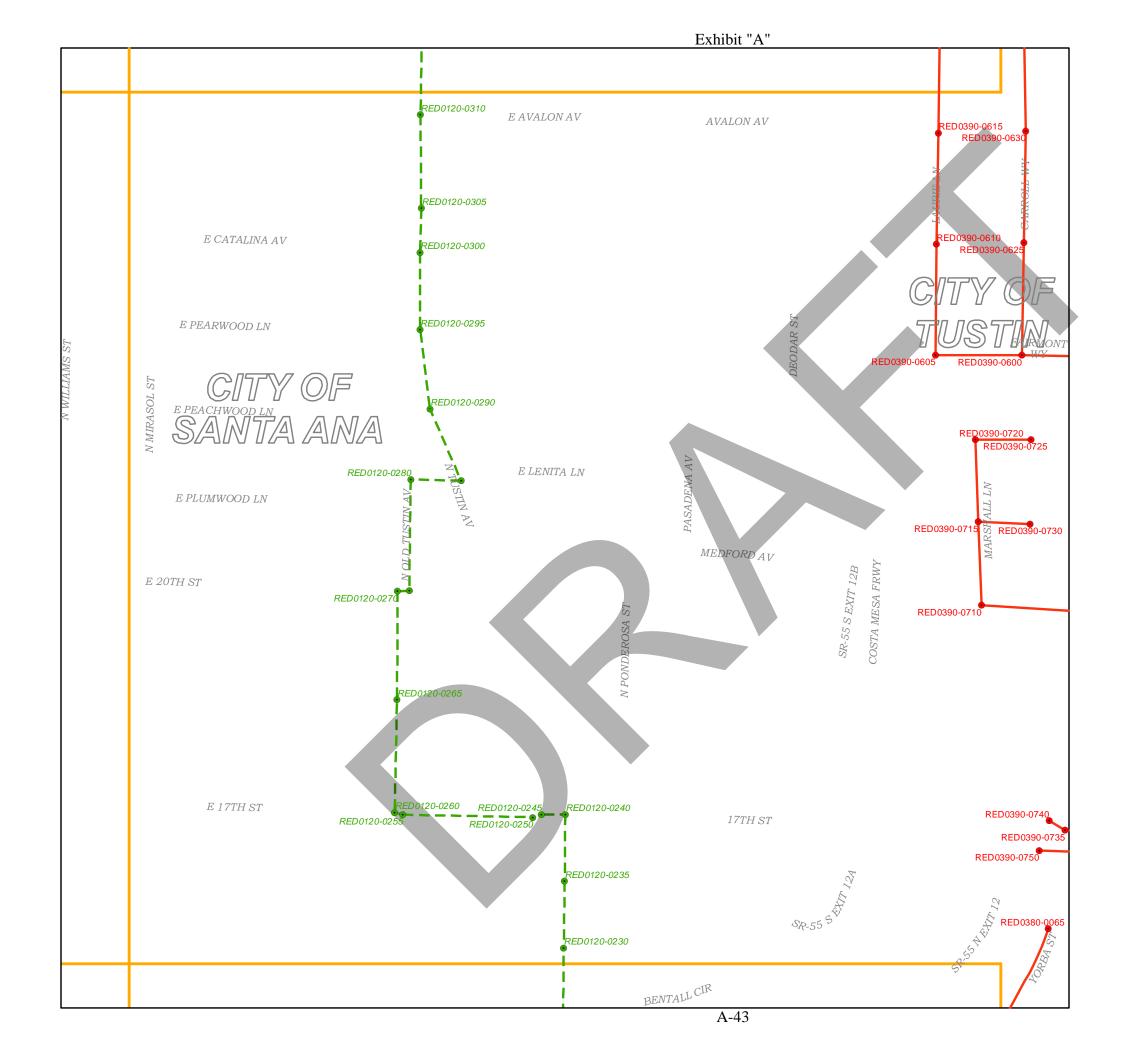
City of Tustin Boundary



OCSD Geographic Information Systems

 $\label{eq:map:county} \mbox{Map prepared by Orange County Sanitation District. This map is intended for } \\$ graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved. Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3552

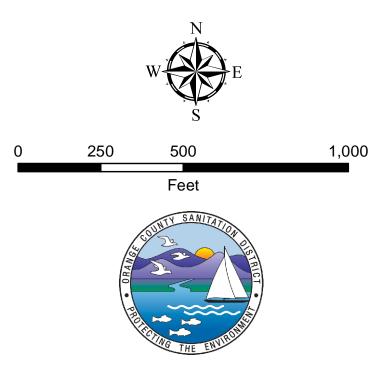


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary

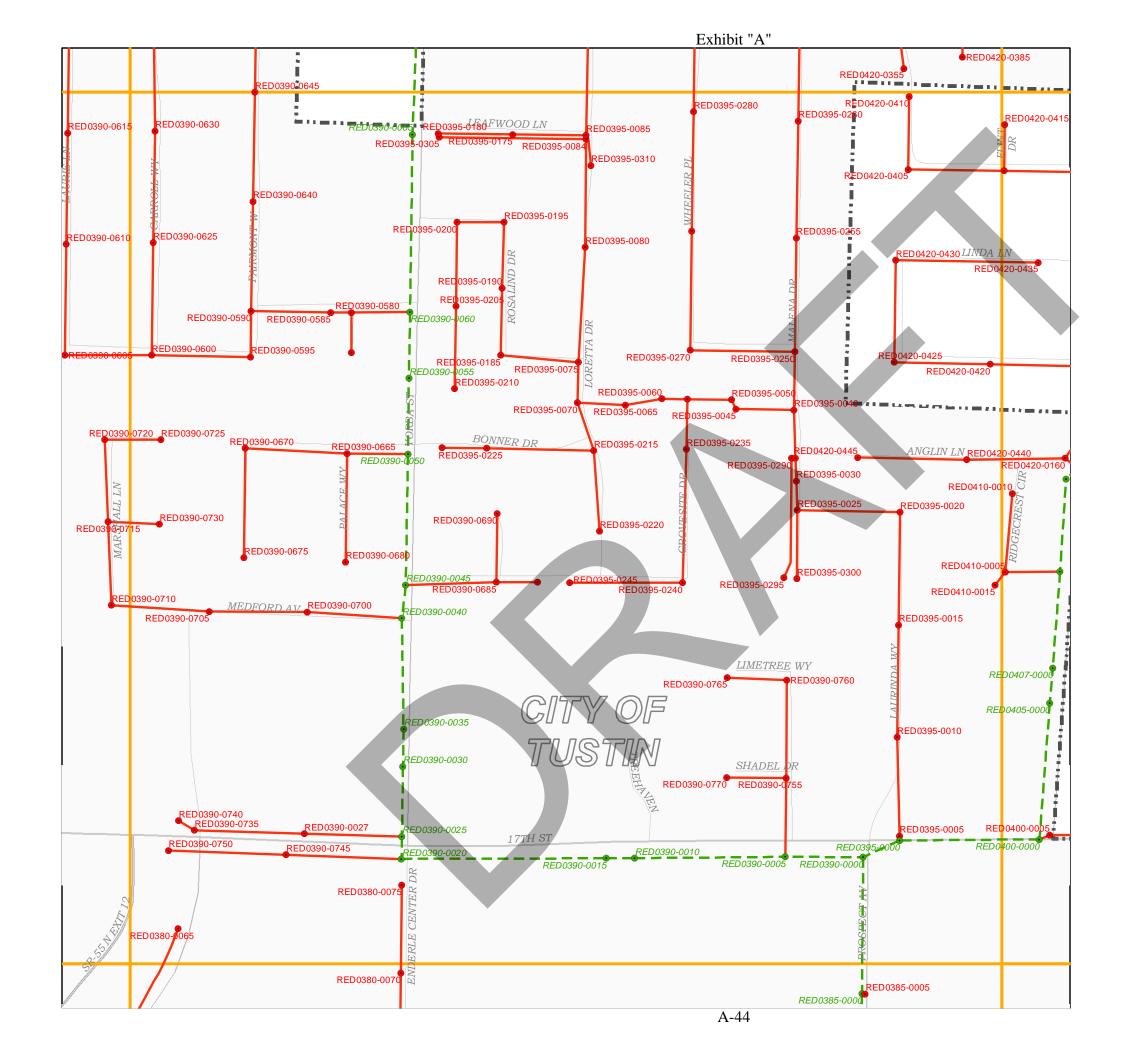


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3644

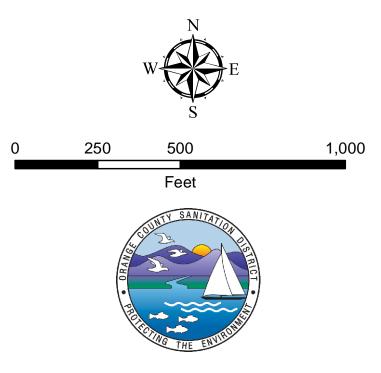


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary

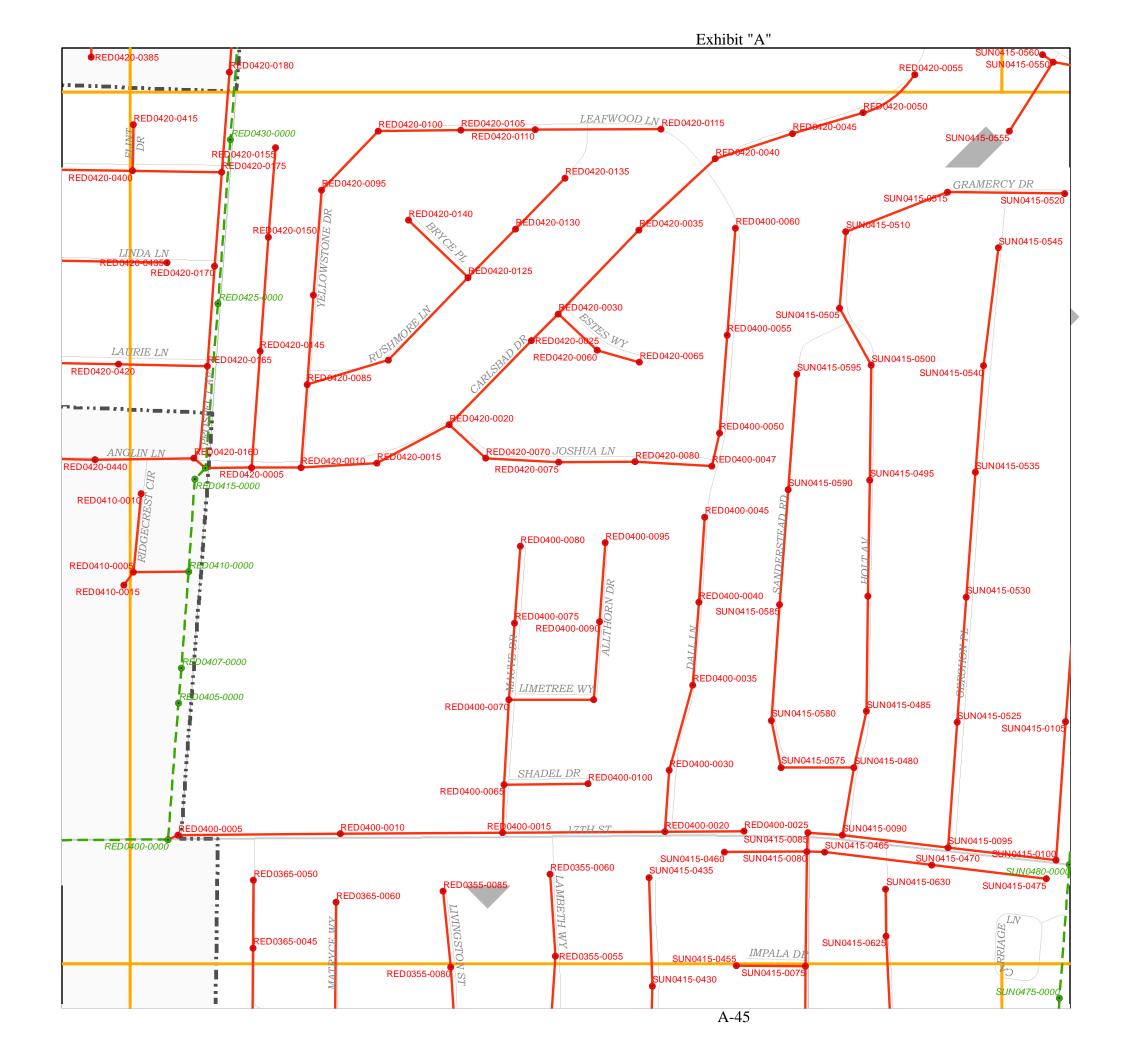


OCSD Geographic Information Systems

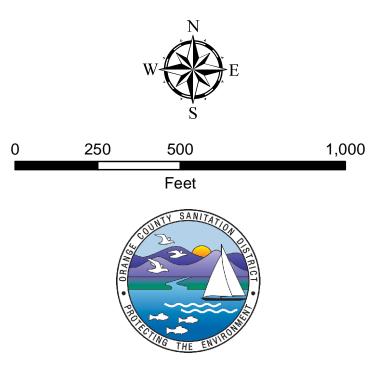
Map prepared by Orange County Sanitation District. This map is intended for graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved.

Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3645



- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer
- Local Sewers Proposed forTransfer
- Regional Sewers Retained By OCSD
- City of Tustin Boundary

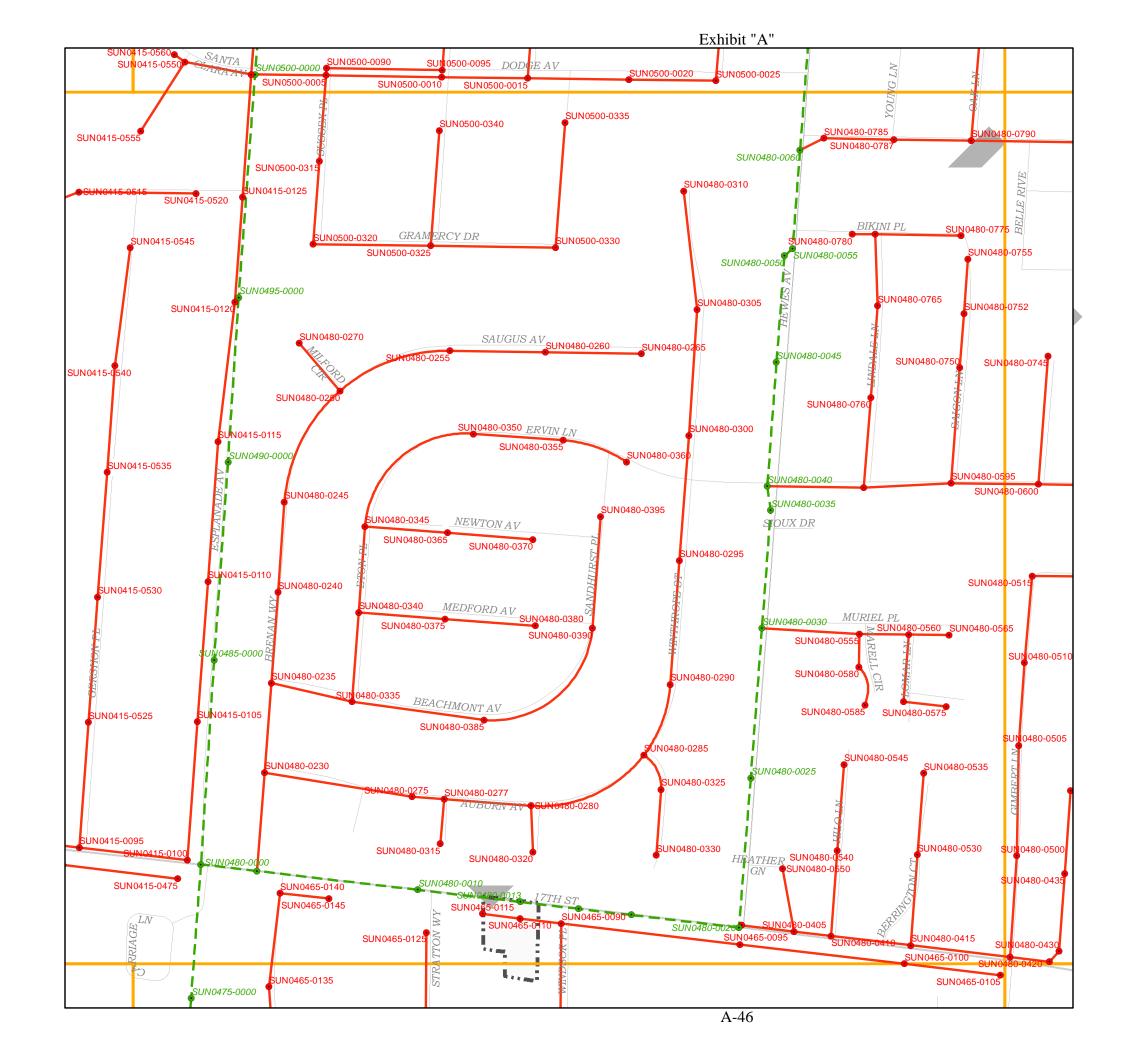


OCSD Geographic Information Systems

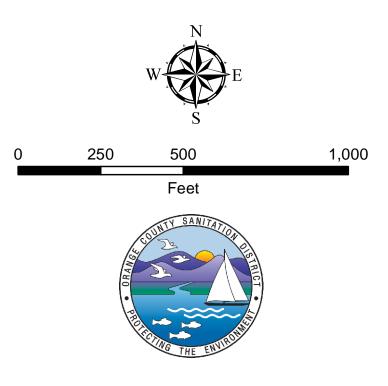
Map prepared by Orange County Sanitation District. This map is intended for graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved.

Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3646



- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer
- Local Sewers Proposed forTransfer
- Regional Sewers Retained By OCSD
 - City of Tustin Boundary



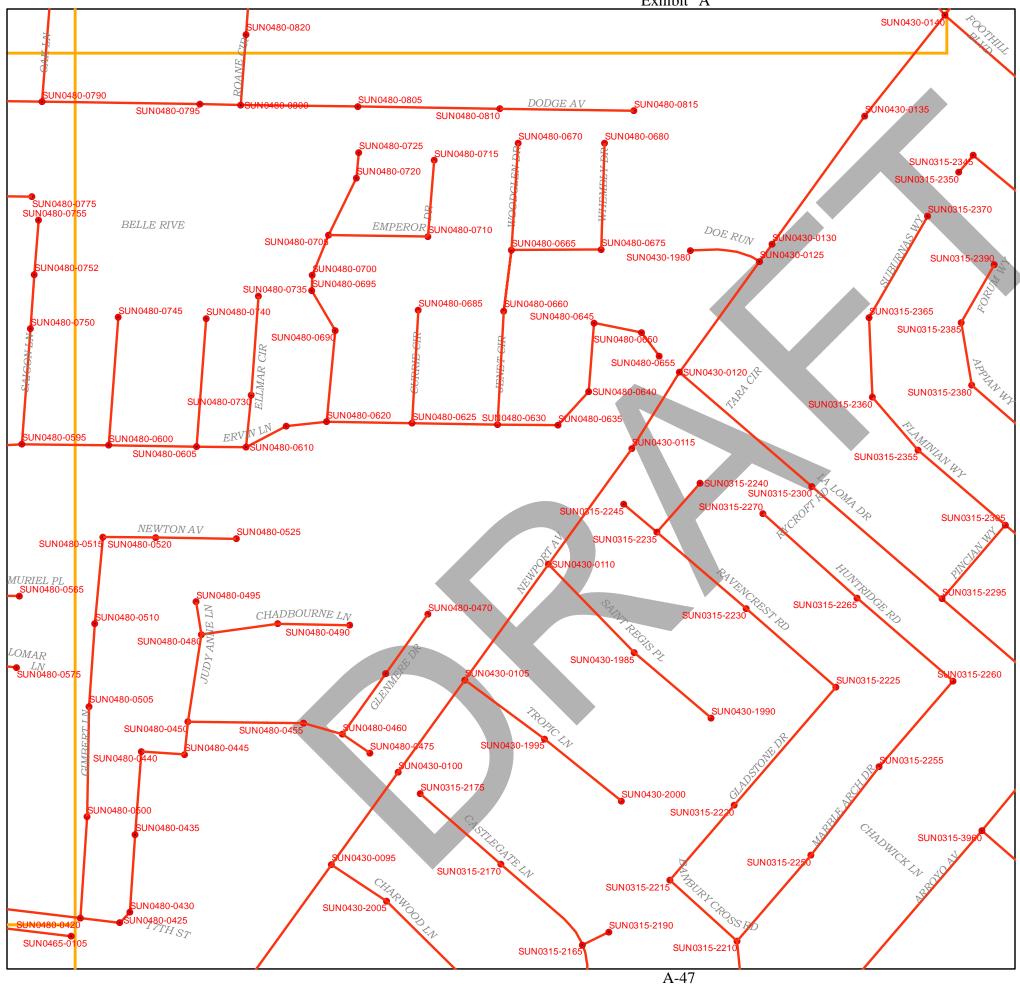
OCSD Geographic Information Systems

Map prepared by Orange County Sanitation District. This map is intended for graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved.

Source Data: OCSD GIS Data, Thomas Brothers 2012

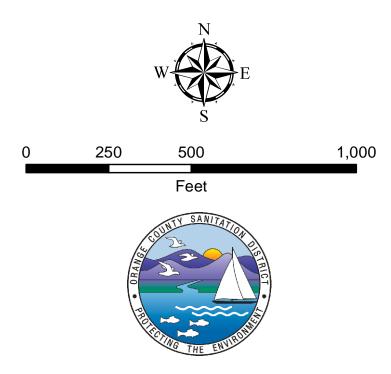
OCSD Page Number: 3647

Exhibit "A"



LOCAL SERVICE AREA 7 SEWER TRANSFERS

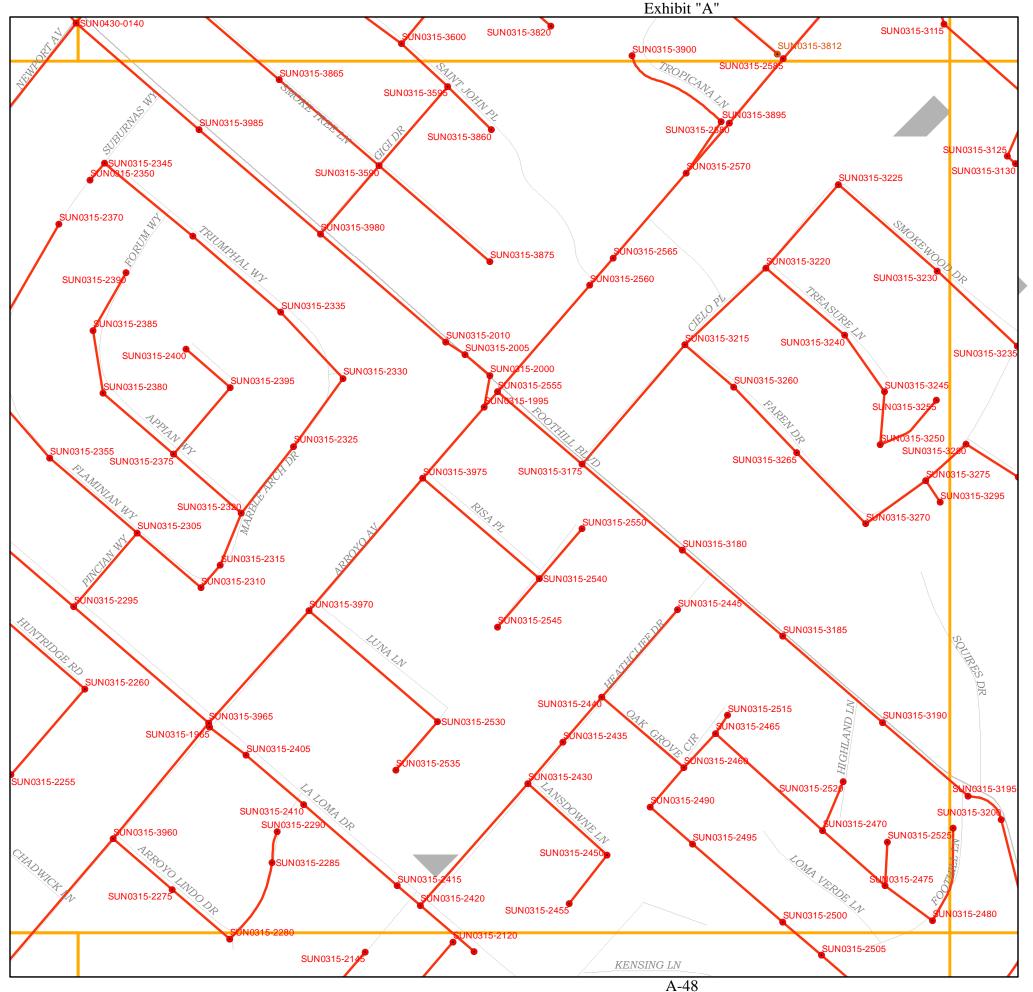
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- Local Manholes Proposed for Transfer
- Local Sewers Proposed forTransfer
- Regional Sewers Retained By OCSD
- City of Tustin Boundary



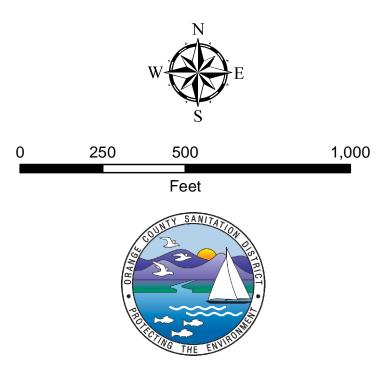
OCSD Geographic Information Systems

 $\label{eq:map:county} \mbox{Map prepared by Orange County Sanitation District. This map is intended for } \\$ graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved. Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3648



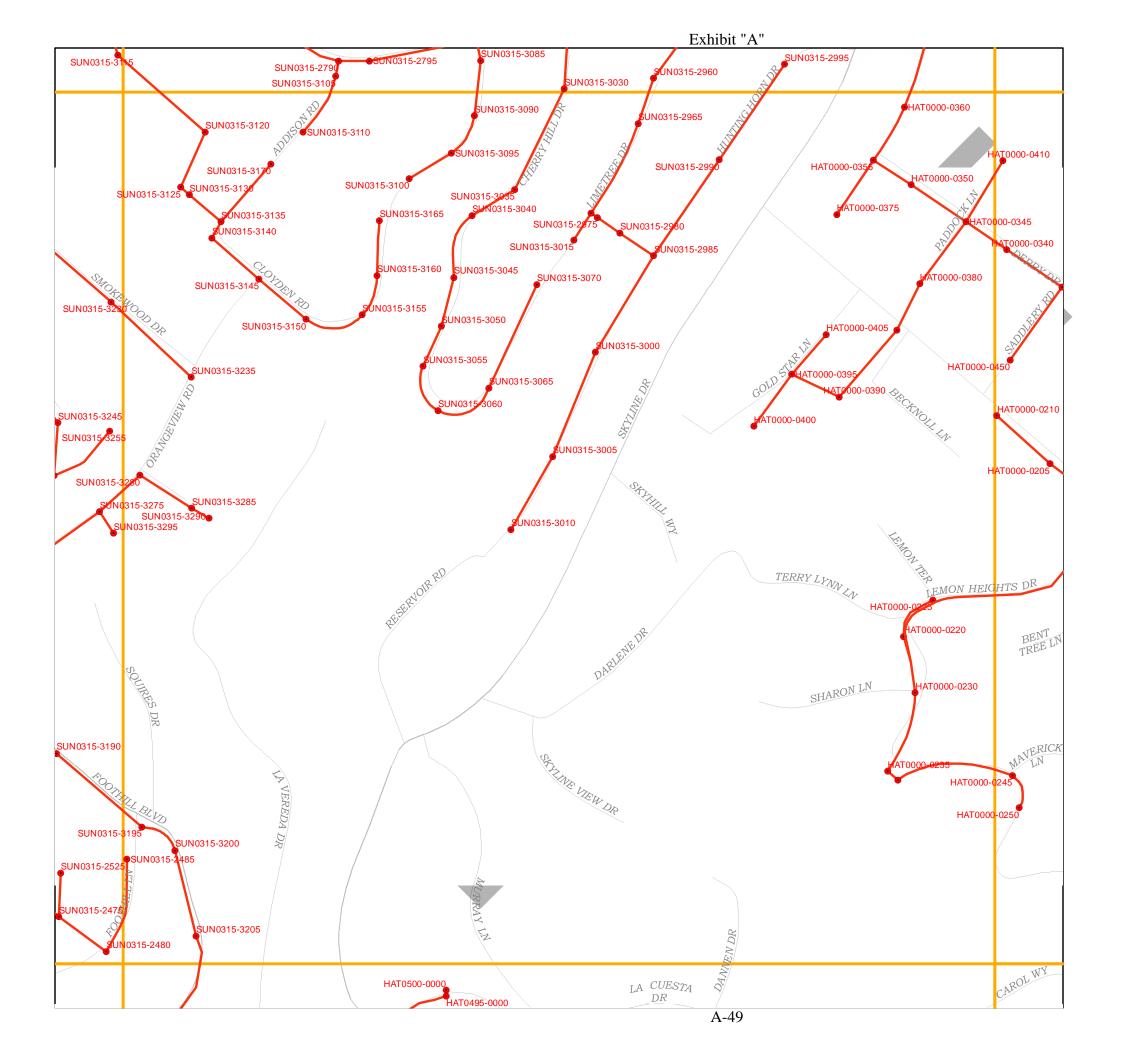
- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed for Transfer
- Local Sewers Proposed for Transfer
- Regional Sewers Retained By OCSD
- City of Tustin Boundary



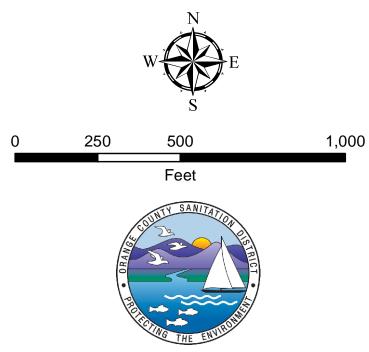
OCSD Geographic Information Systems

 $\label{eq:map:county} \mbox{Map prepared by Orange County Sanitation District. This map is intended for } \\$ graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved. Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3649



- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer
- Local Sewers Proposed forTransfer
- Regional Sewers Retained By OCSD
- City of Tustin Boundary

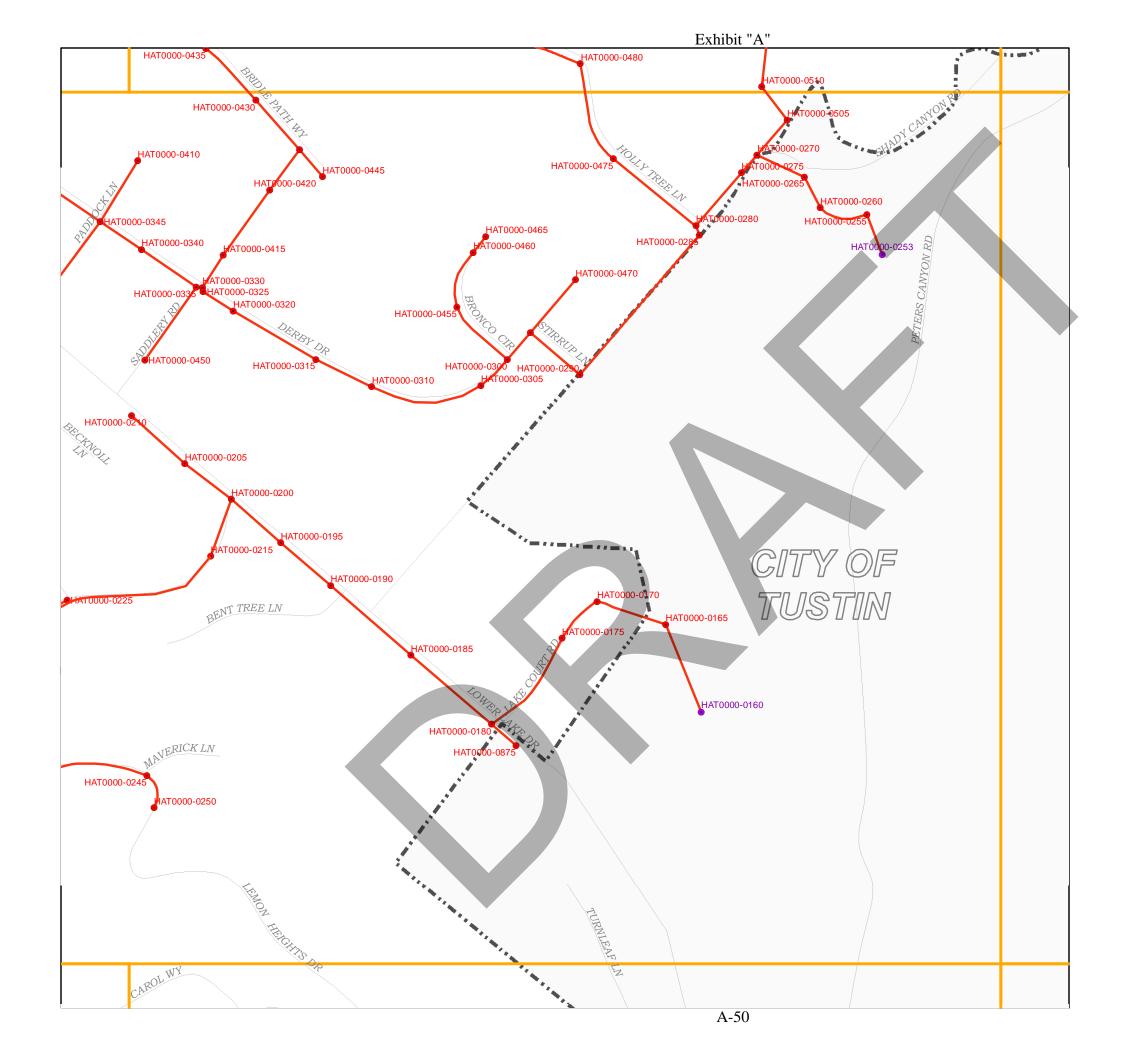


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3650

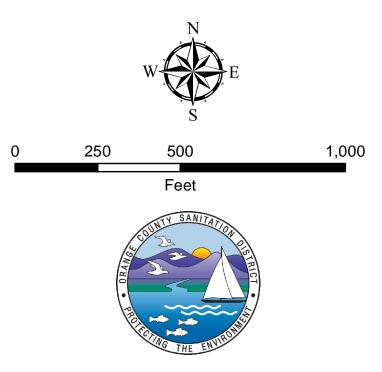


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary

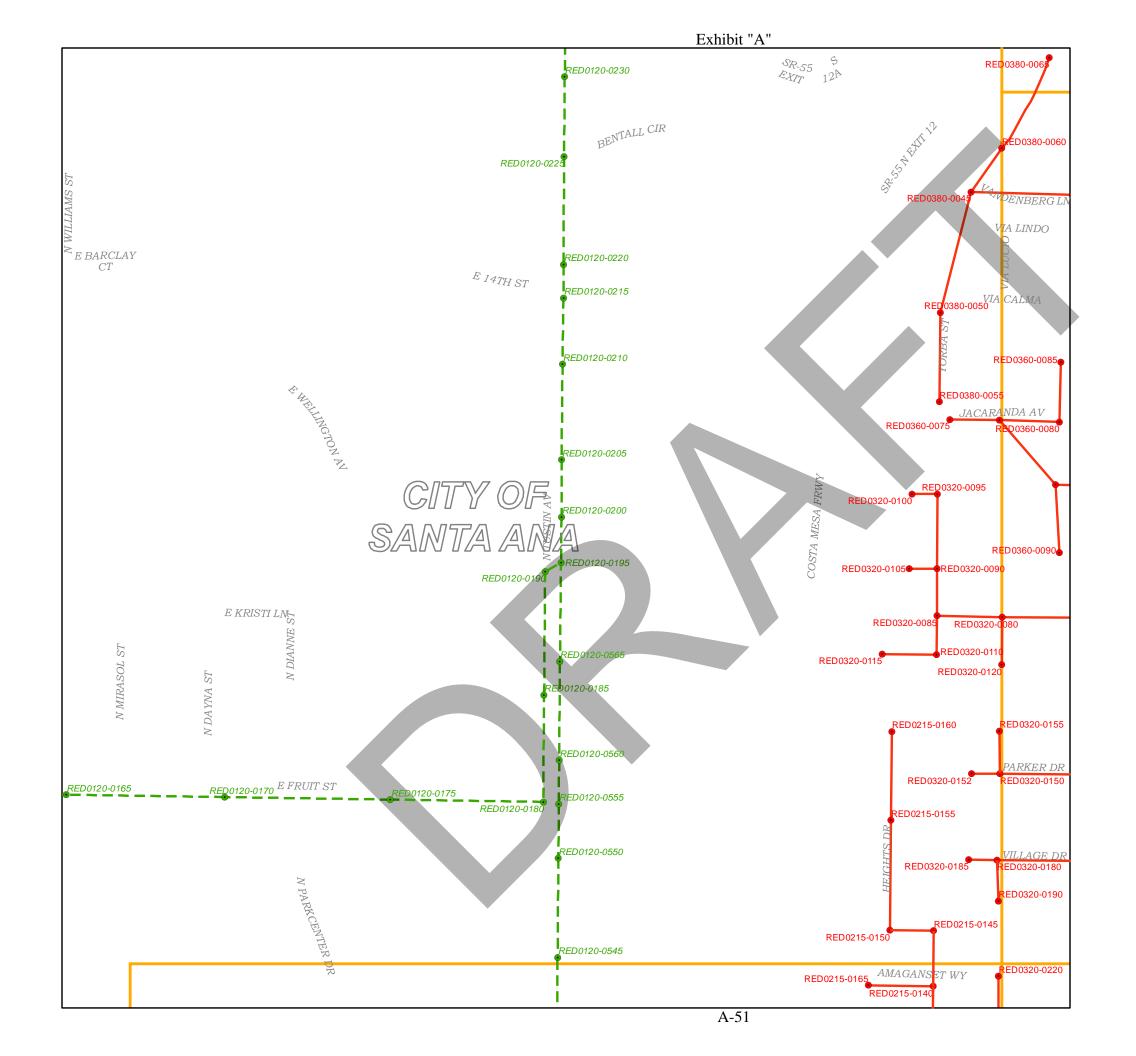


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3651

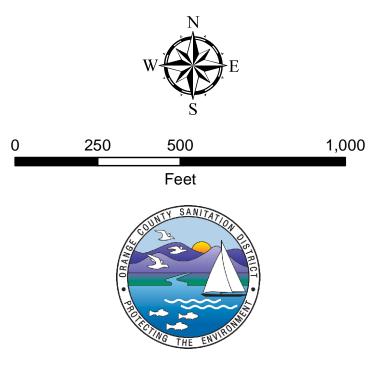


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary

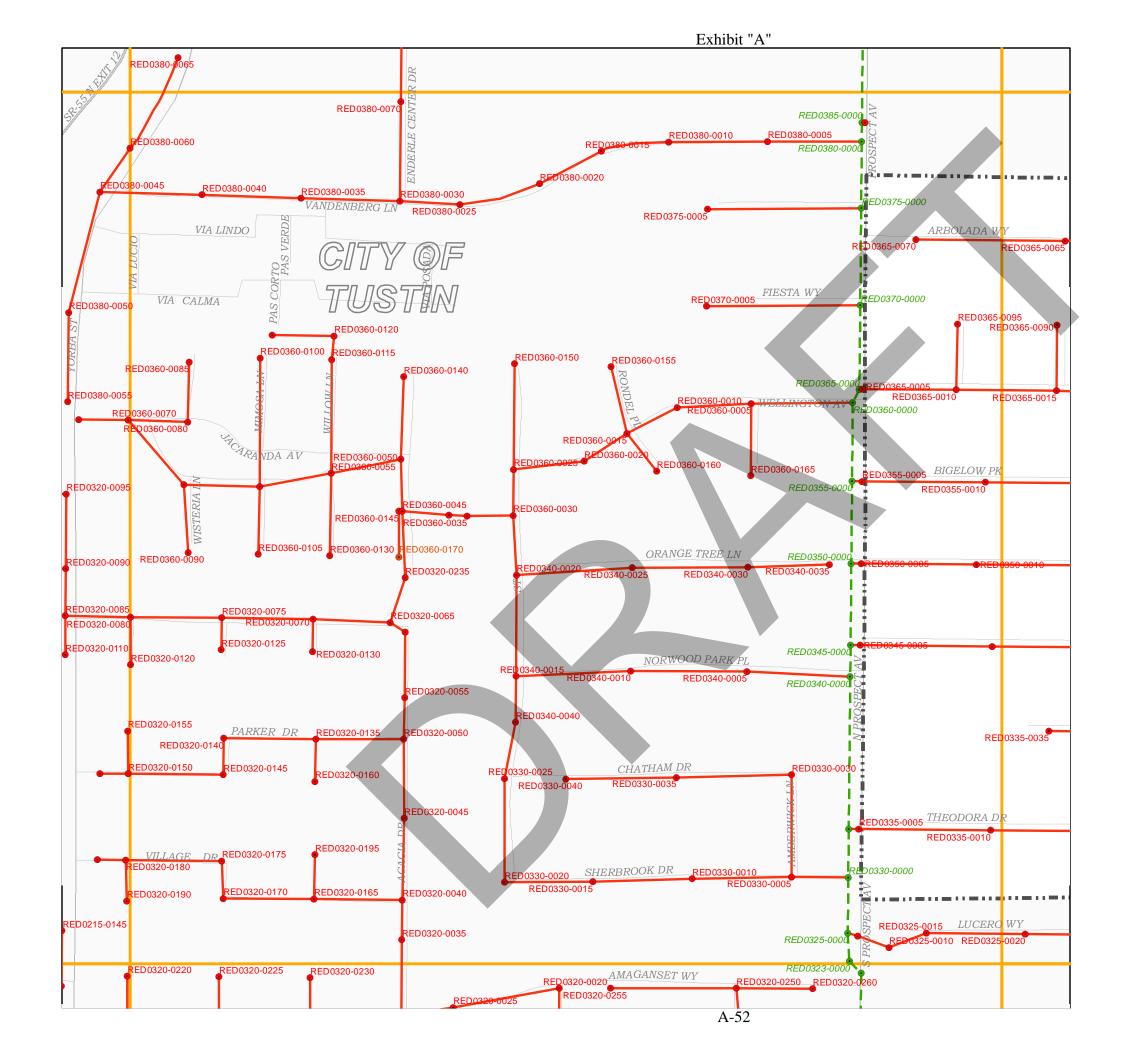


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3744

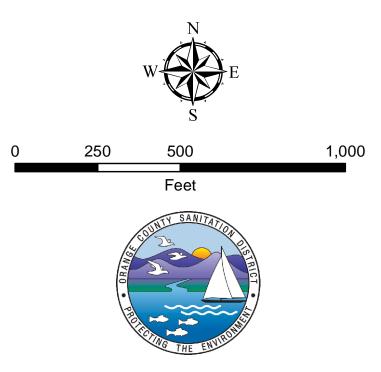


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary

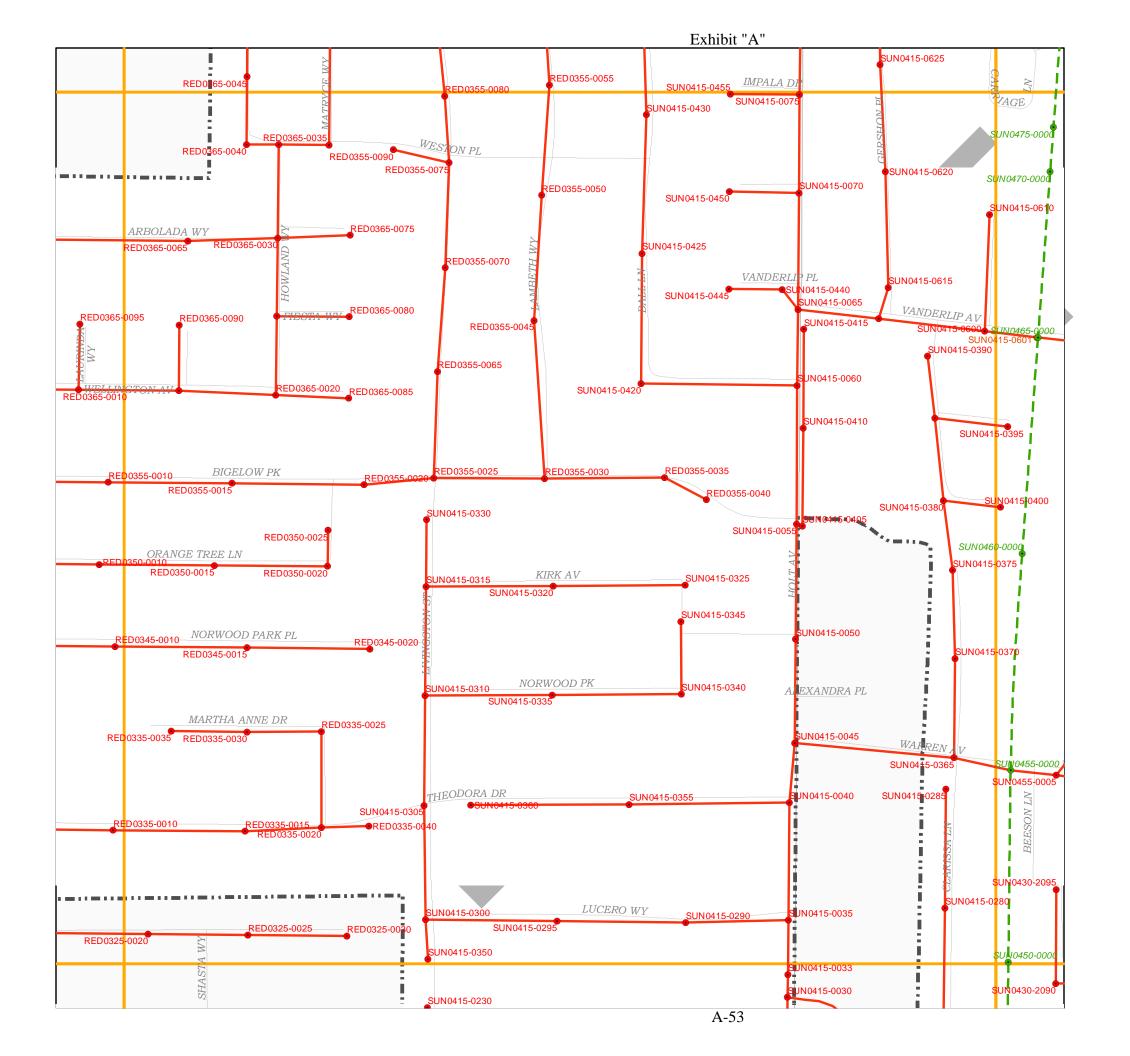


OCSD Geographic Information Systems

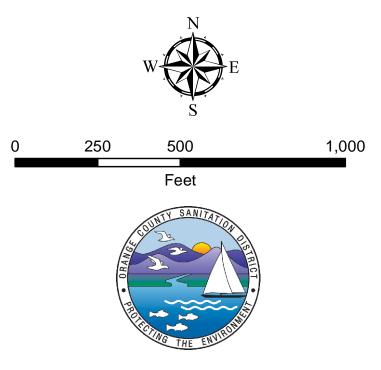
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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3745



- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer
- Local Sewers Proposed forTransfer
- Regional Sewers Retained By OCSD
- City of Tustin Boundary



OCSD Geographic Information Systems

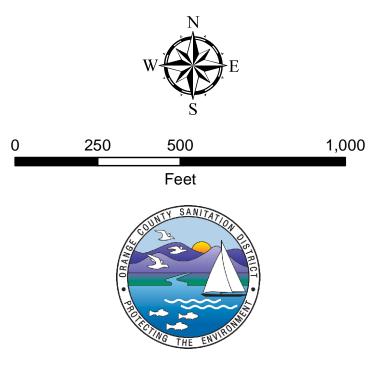
Map prepared by Orange County Sanitation District. This map is intended for graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved.

Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3746



- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer
- Local Sewers Proposed forTransfer
- Regional Sewers Retained By OCSD
- City of Tustin Boundary

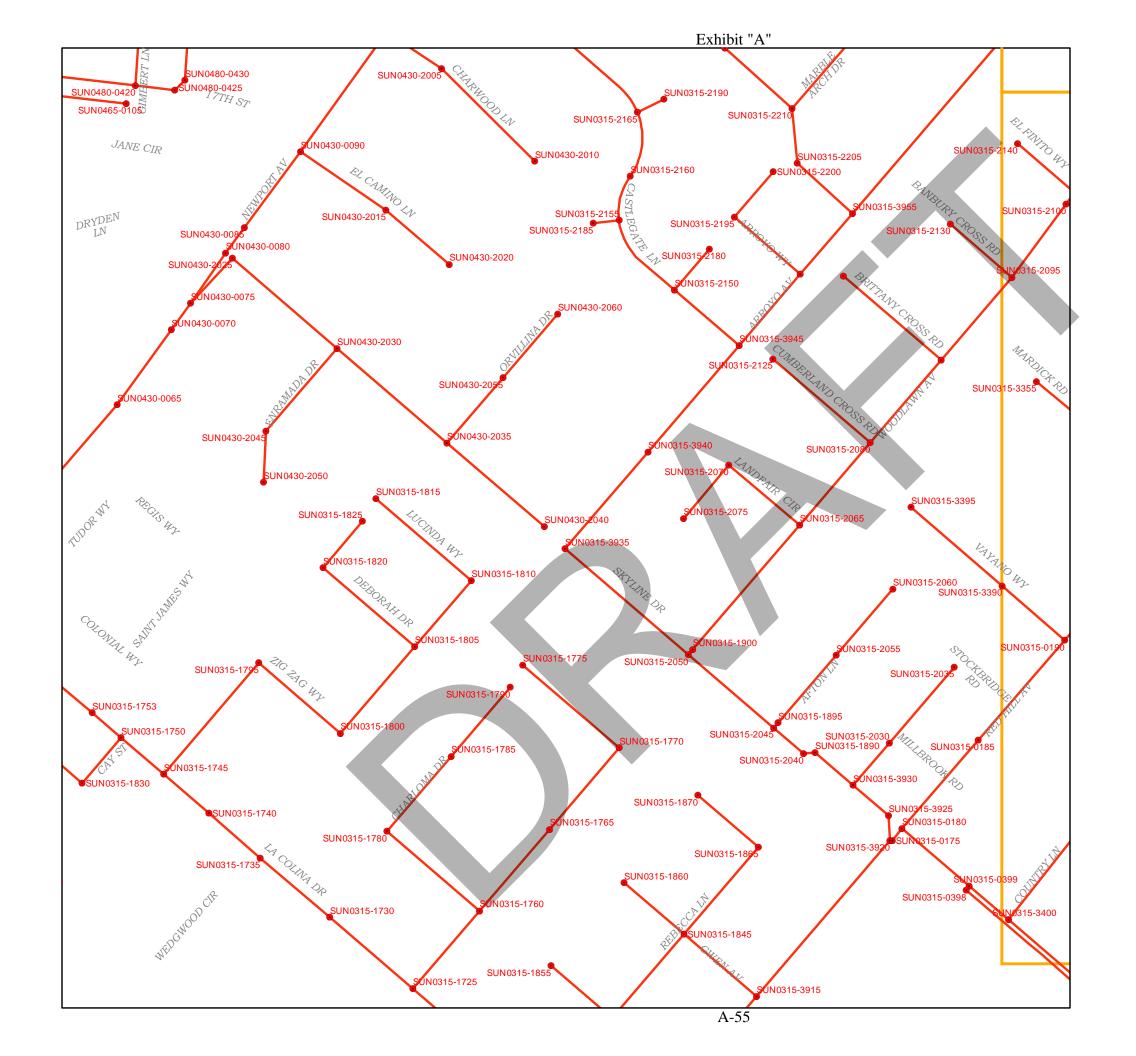


OCSD Geographic Information Systems

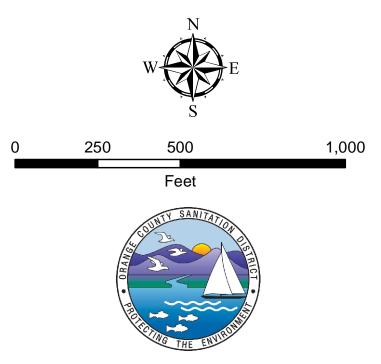
Map prepared by Orange County Sanitation District. This map is intended for graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved.

Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3747



- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer
- Local Sewers Proposed forTransfer
- Regional Sewers Retained By OCSD
- City of Tustin Boundary

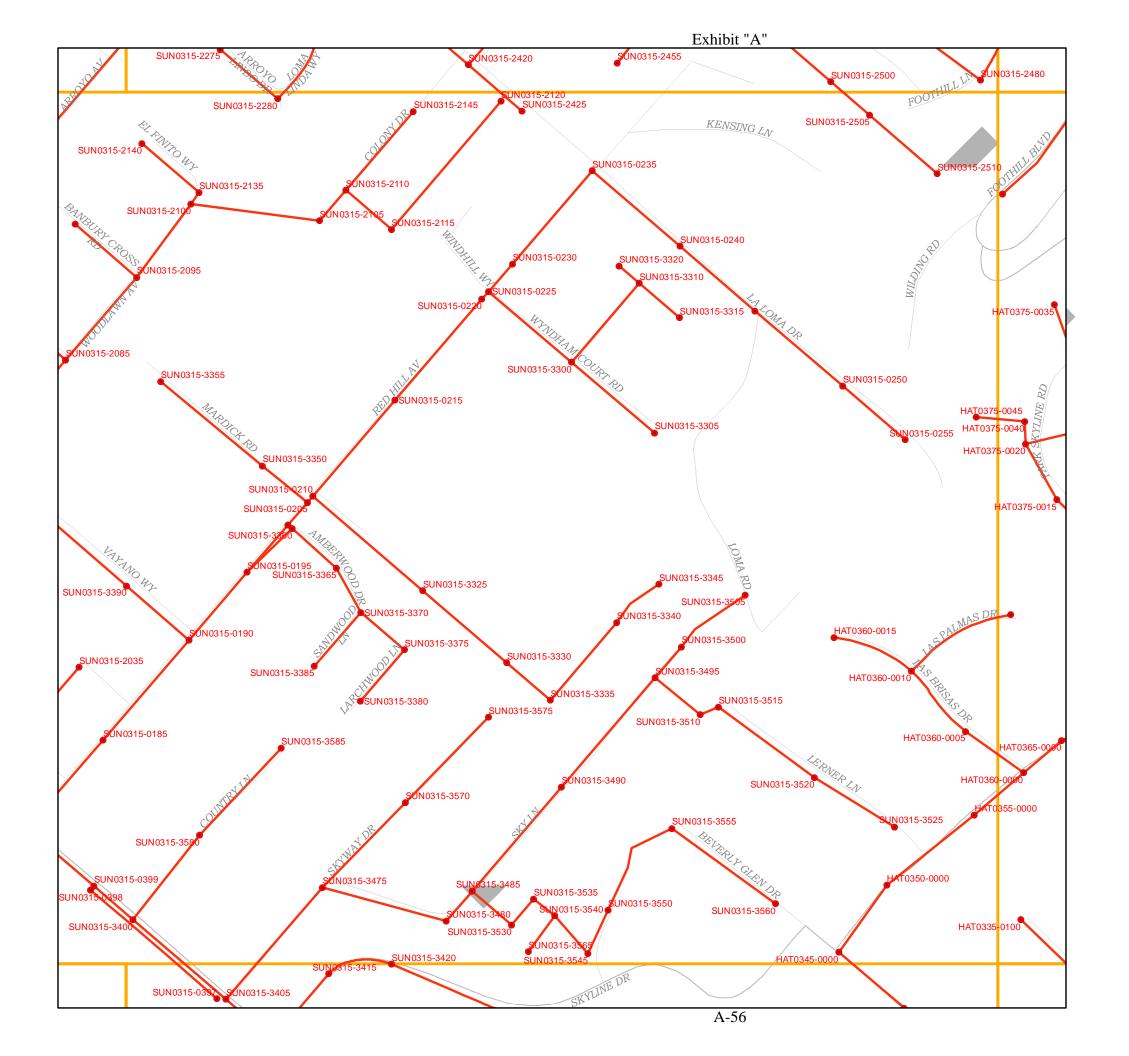


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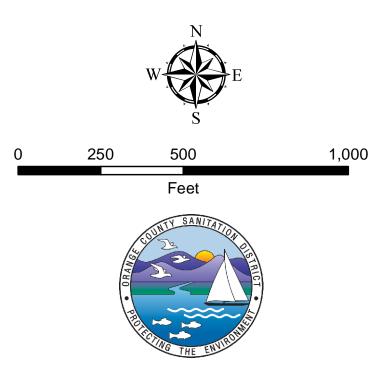
Map prepared by Orange County Sanitation District. This map is intended for graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved.

Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3748



- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer
 - Local Sewers Proposed forTransfer
- Regional Sewers Retained By OCSD
- City of Tustin Boundary

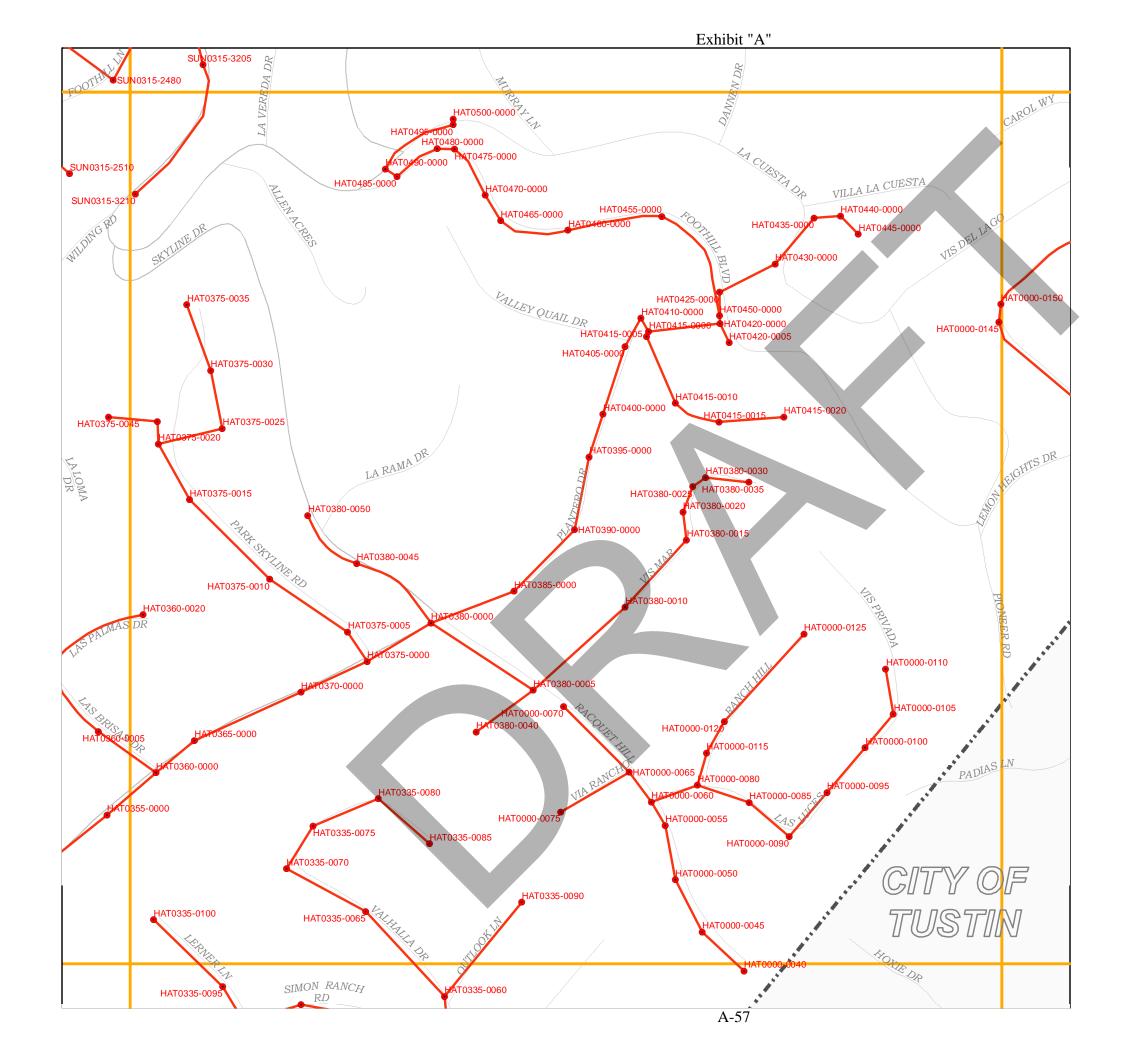


OCSD Geographic Information Systems

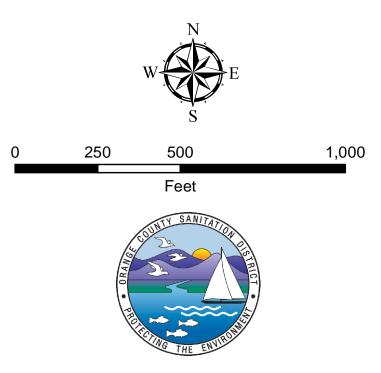
Map prepared by Orange County Sanitation District. This map is intended for graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved.

Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3749



- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer
- Local Sewers Proposed forTransfer
- Regional Sewers Retained By OCSD
- City of Tustin Boundary

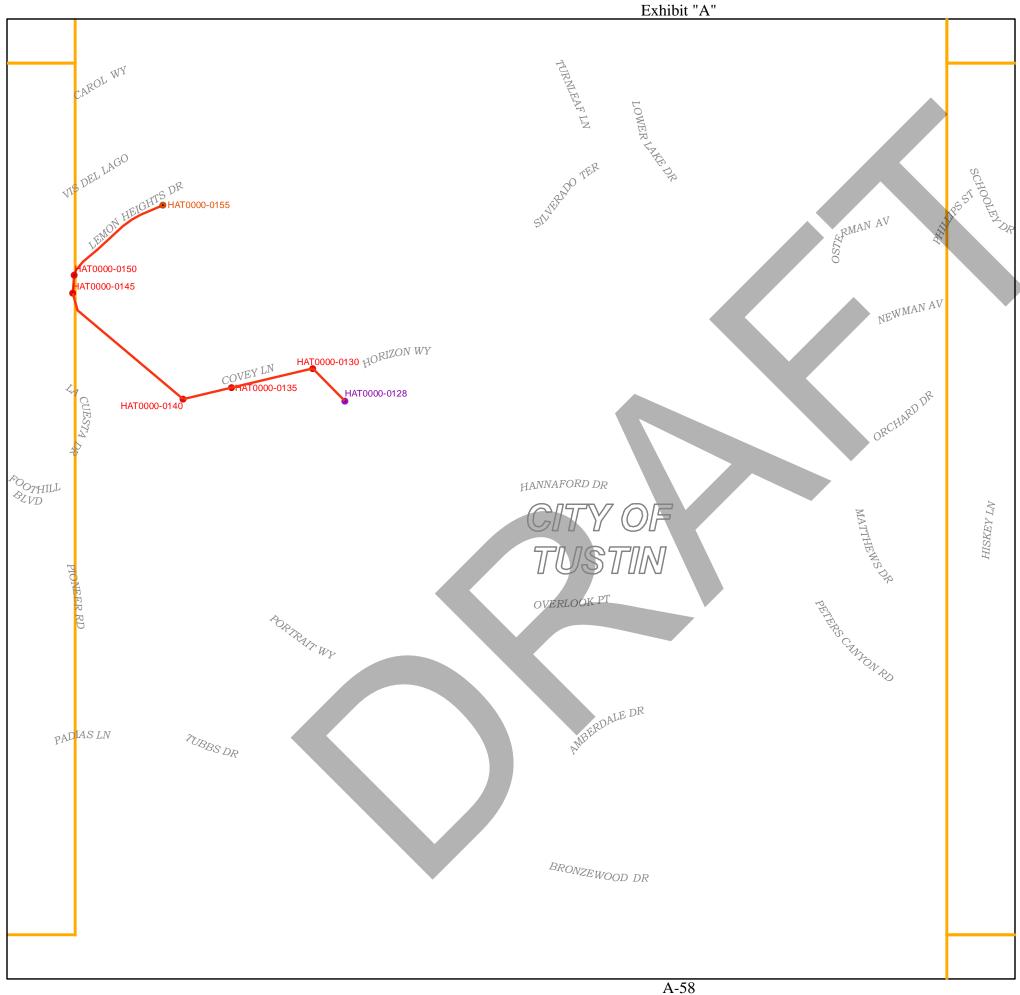


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3750

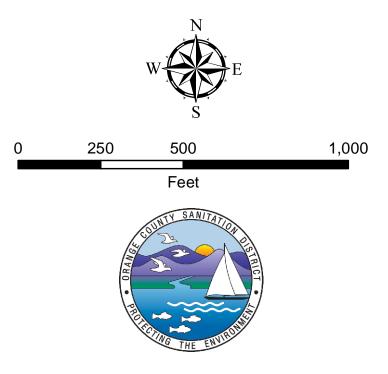


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

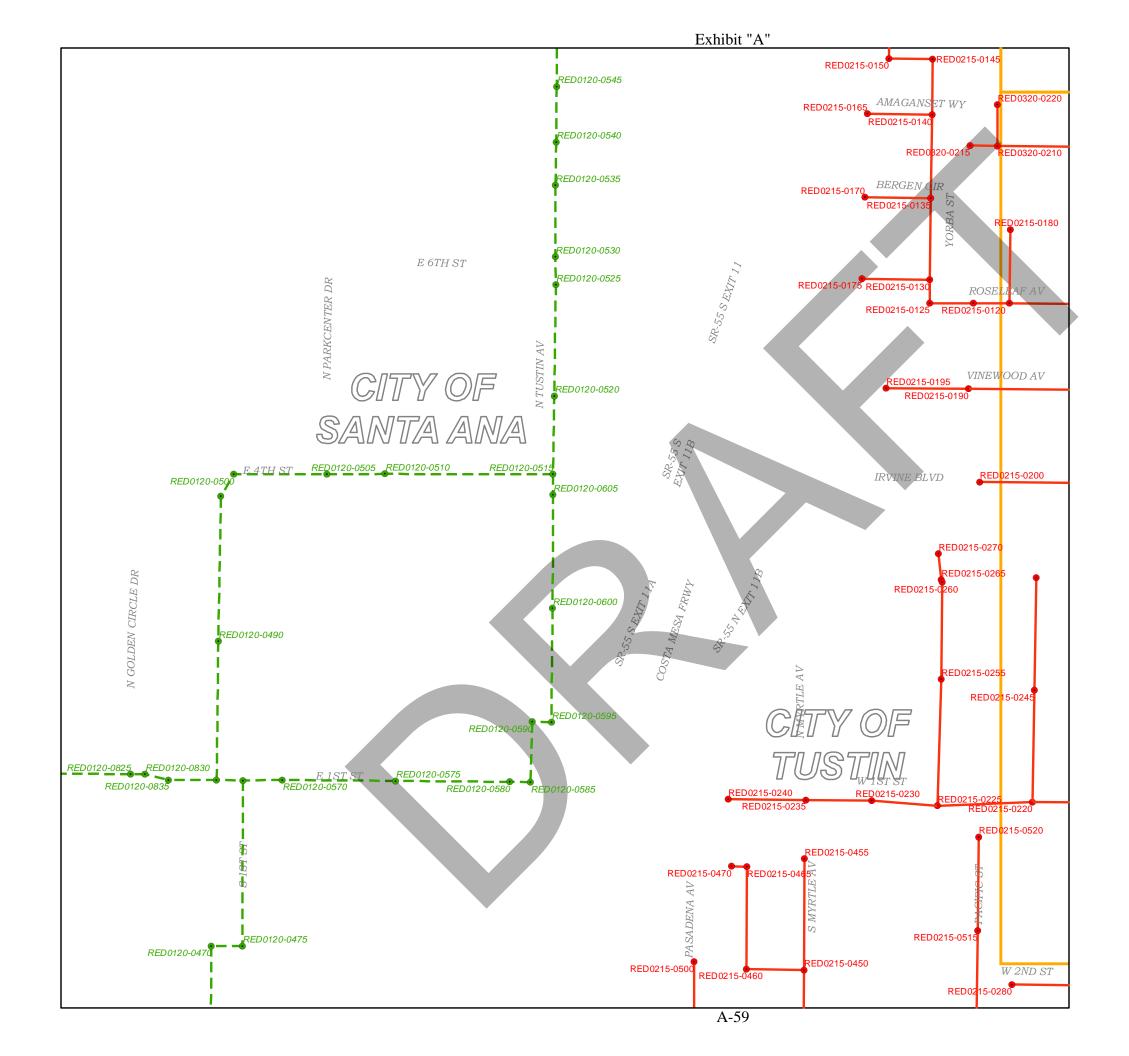
City of Tustin Boundary



OCSD Geographic Information Systems

 $\label{eq:map:county} \mbox{Map prepared by Orange County Sanitation District. This map is intended for } \mbox{\cite{Map prepared by Orange County Sanitation District.}} \mbox{\cite{County Sanita$ graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved. Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3751

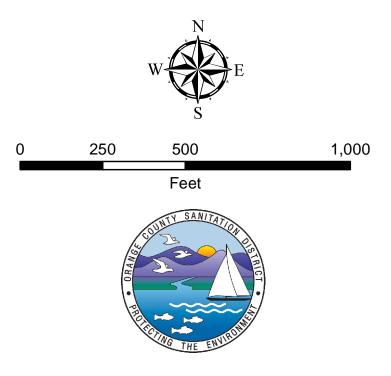


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary

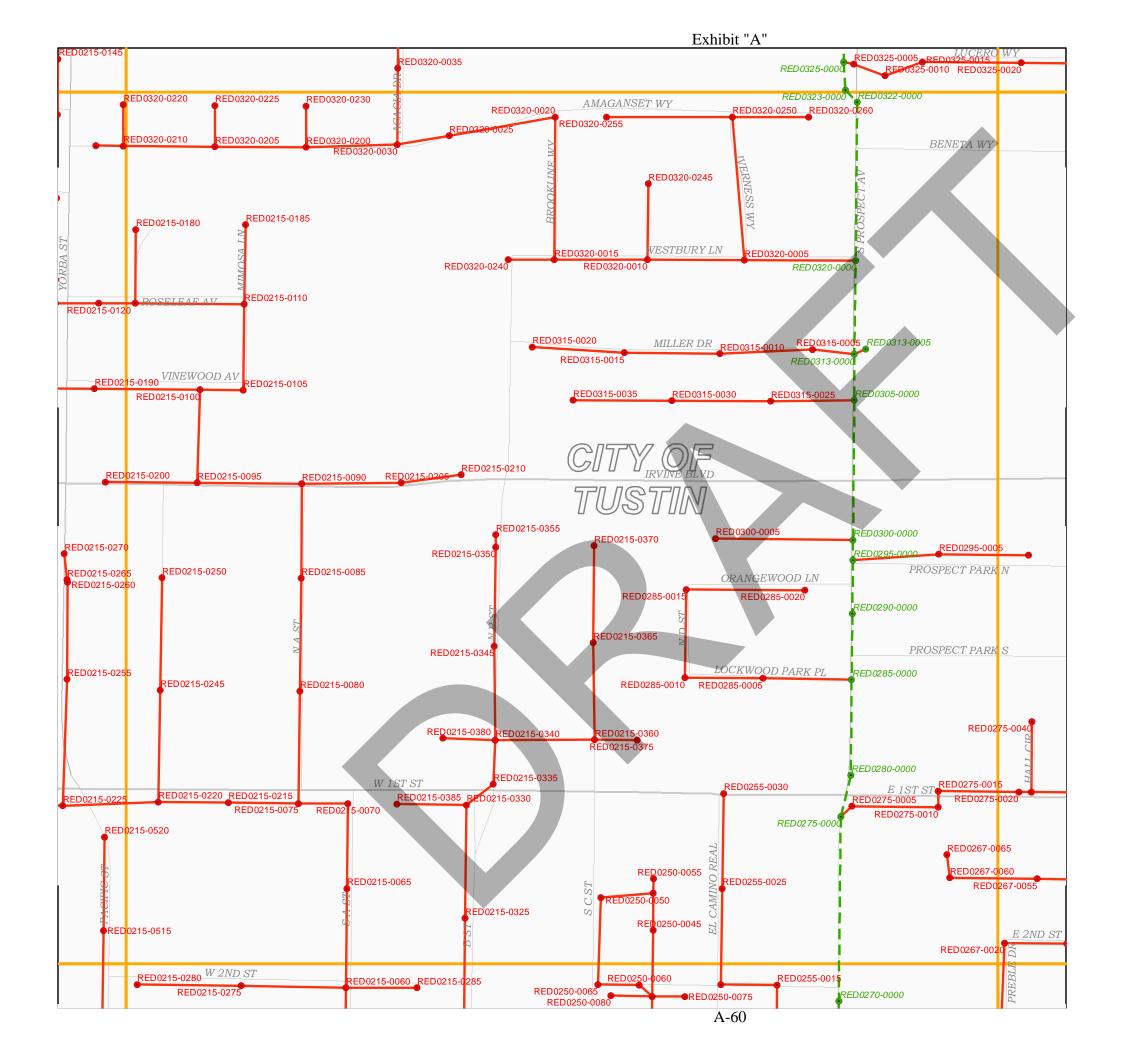


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3844

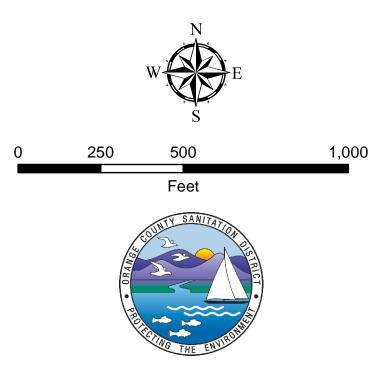


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer





City of Tustin Boundary

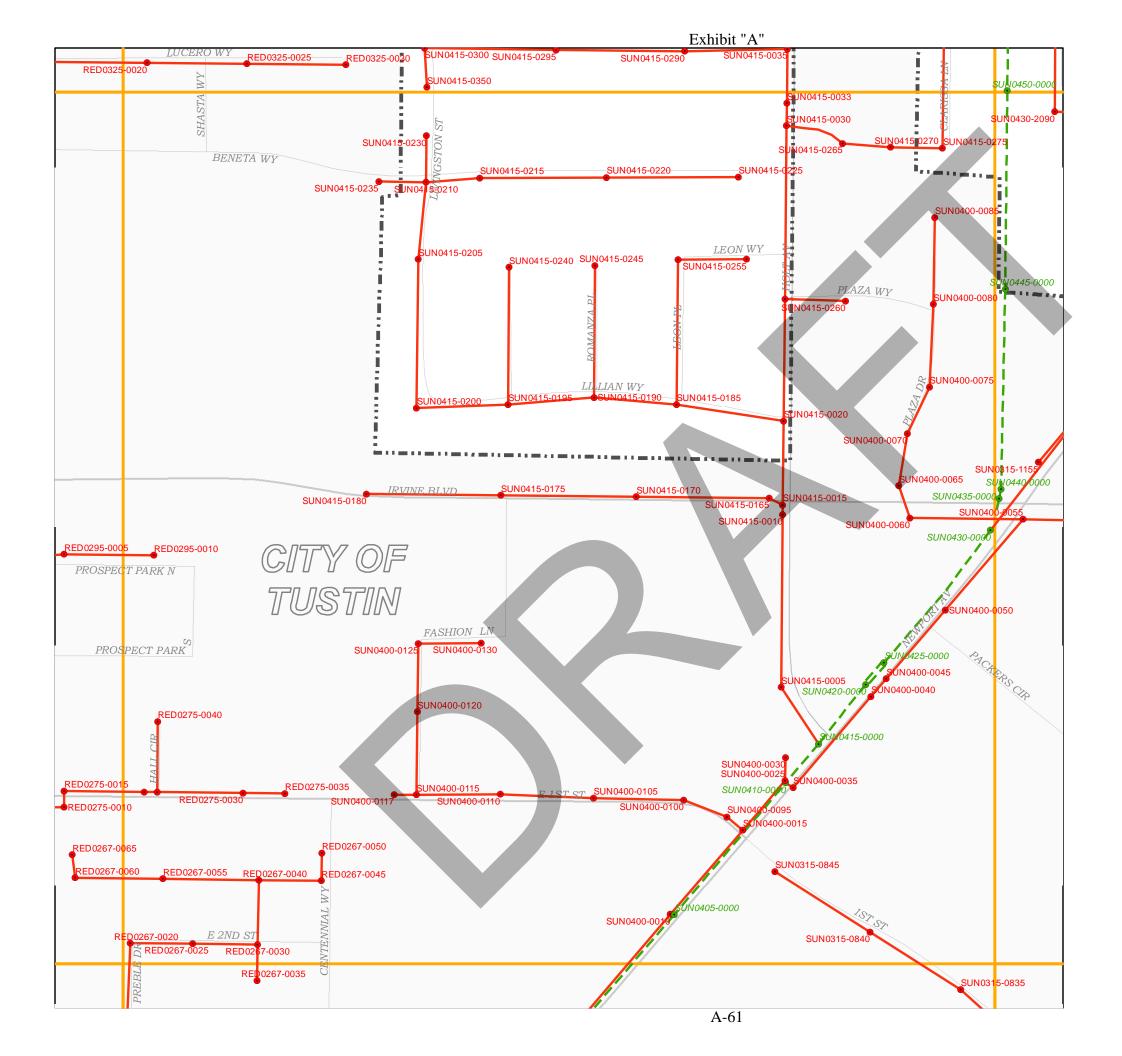


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3845

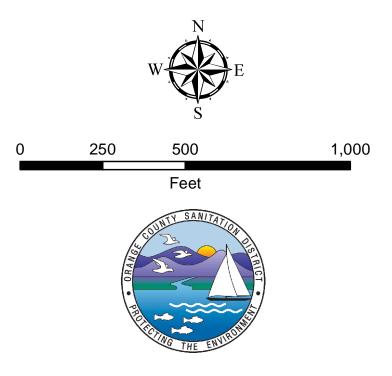


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary

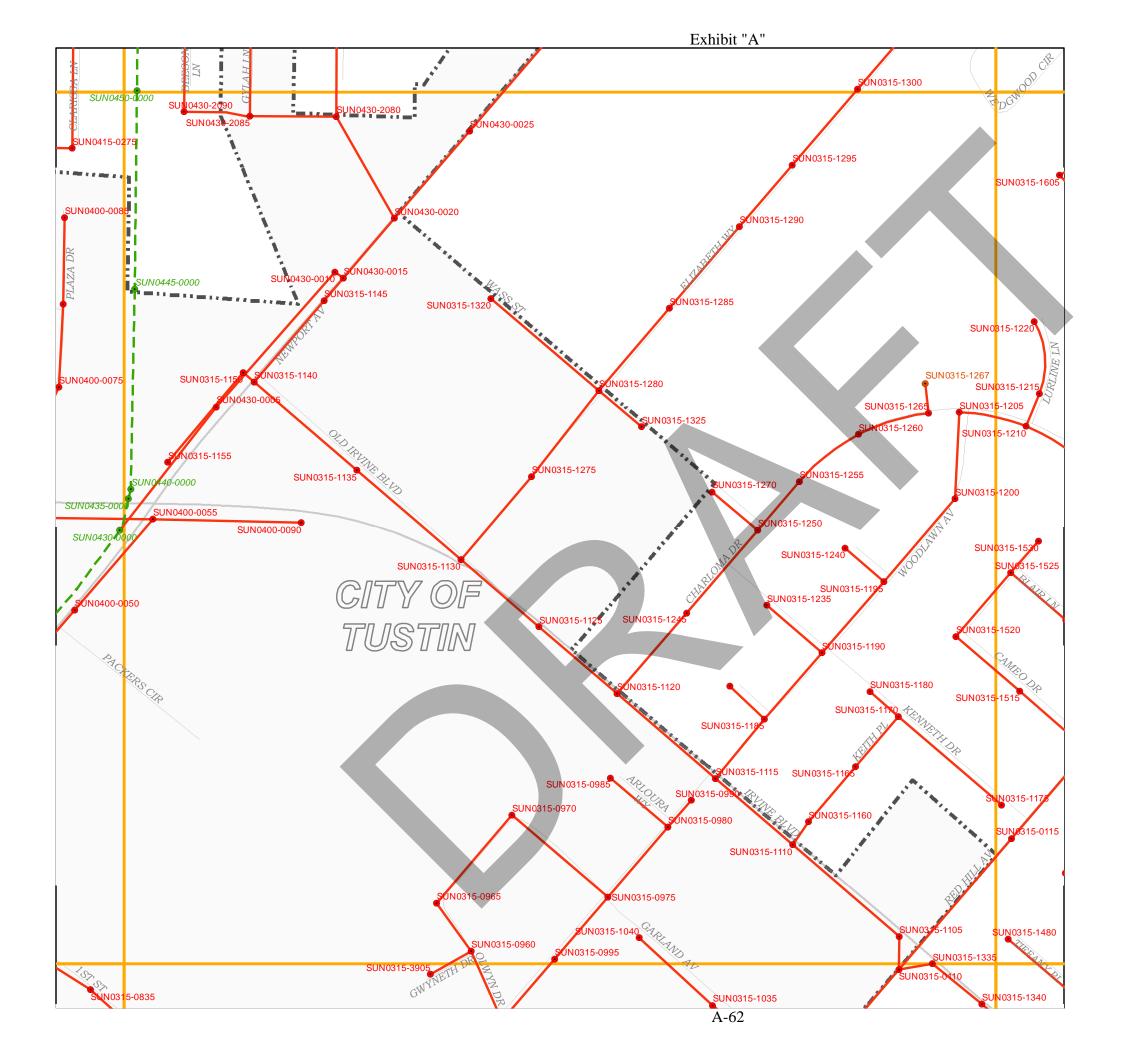


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3846

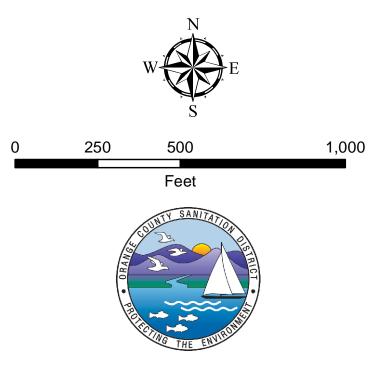


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary

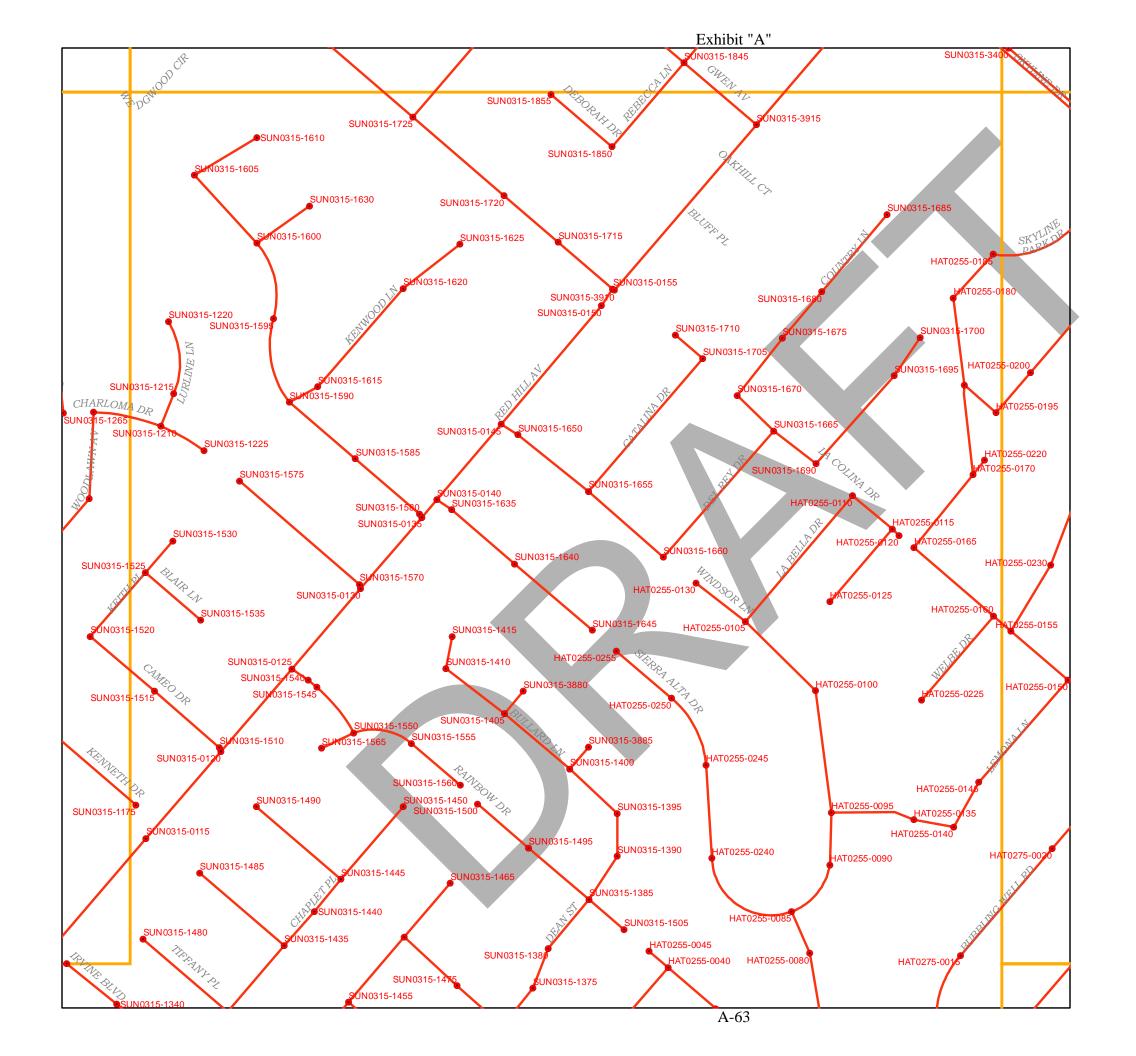


OCSD Geographic Information Systems

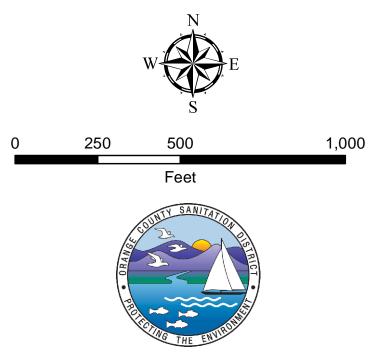
Map prepared by Orange County Sanitation District. This map is intended for graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved.

Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3847



- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer
- Local Sewers Proposed forTransfer
- Regional Sewers Retained By OCSD
- City of Tustin Boundary

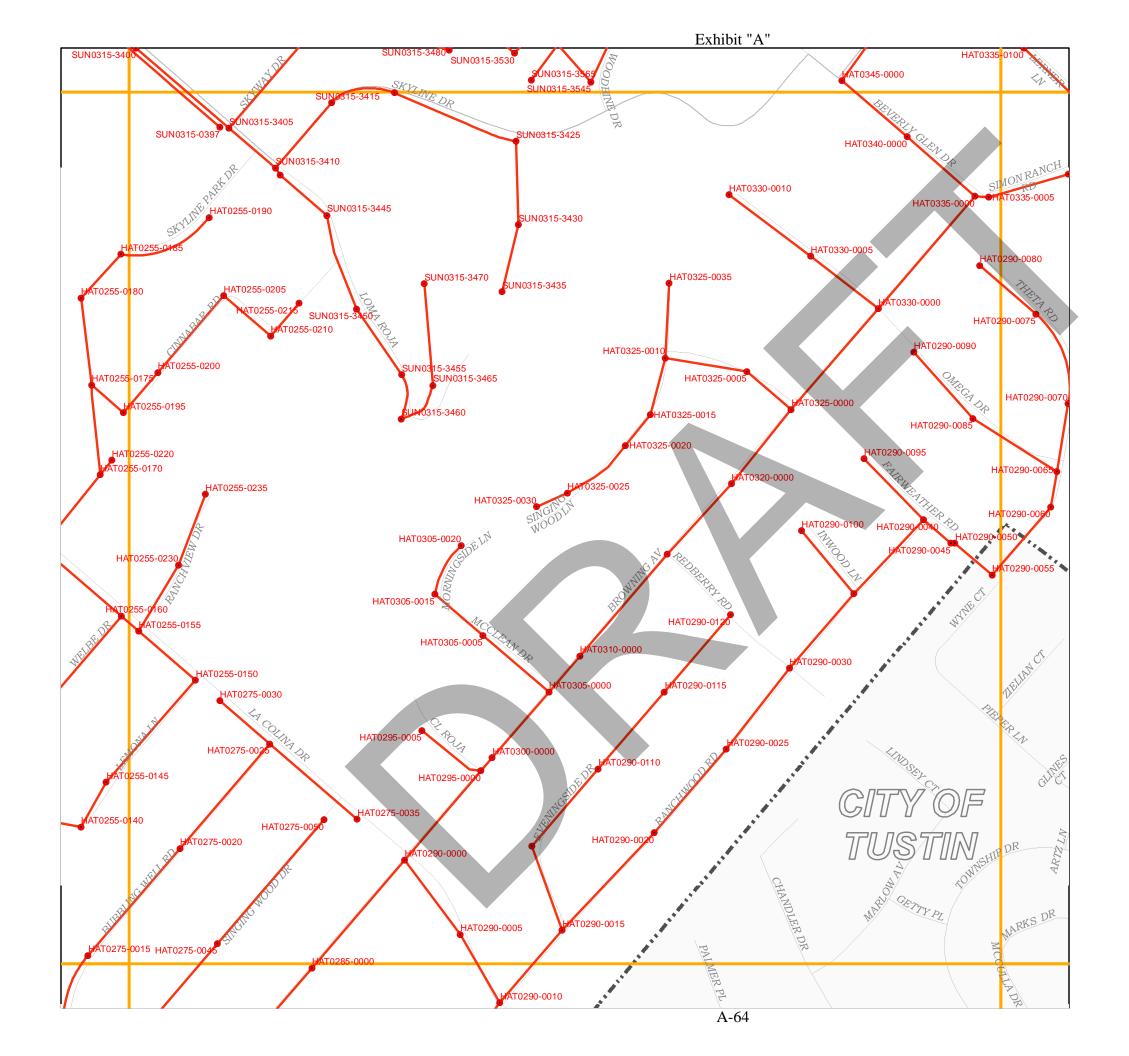


OCSD Geographic Information Systems

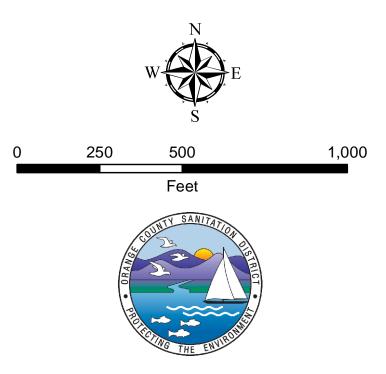
Map prepared by Orange County Sanitation District. This map is intended for graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved.

Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3848



- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer
- Local Sewers Proposed forTransfer
- Regional Sewers Retained By OCSD
- City of Tustin Boundary

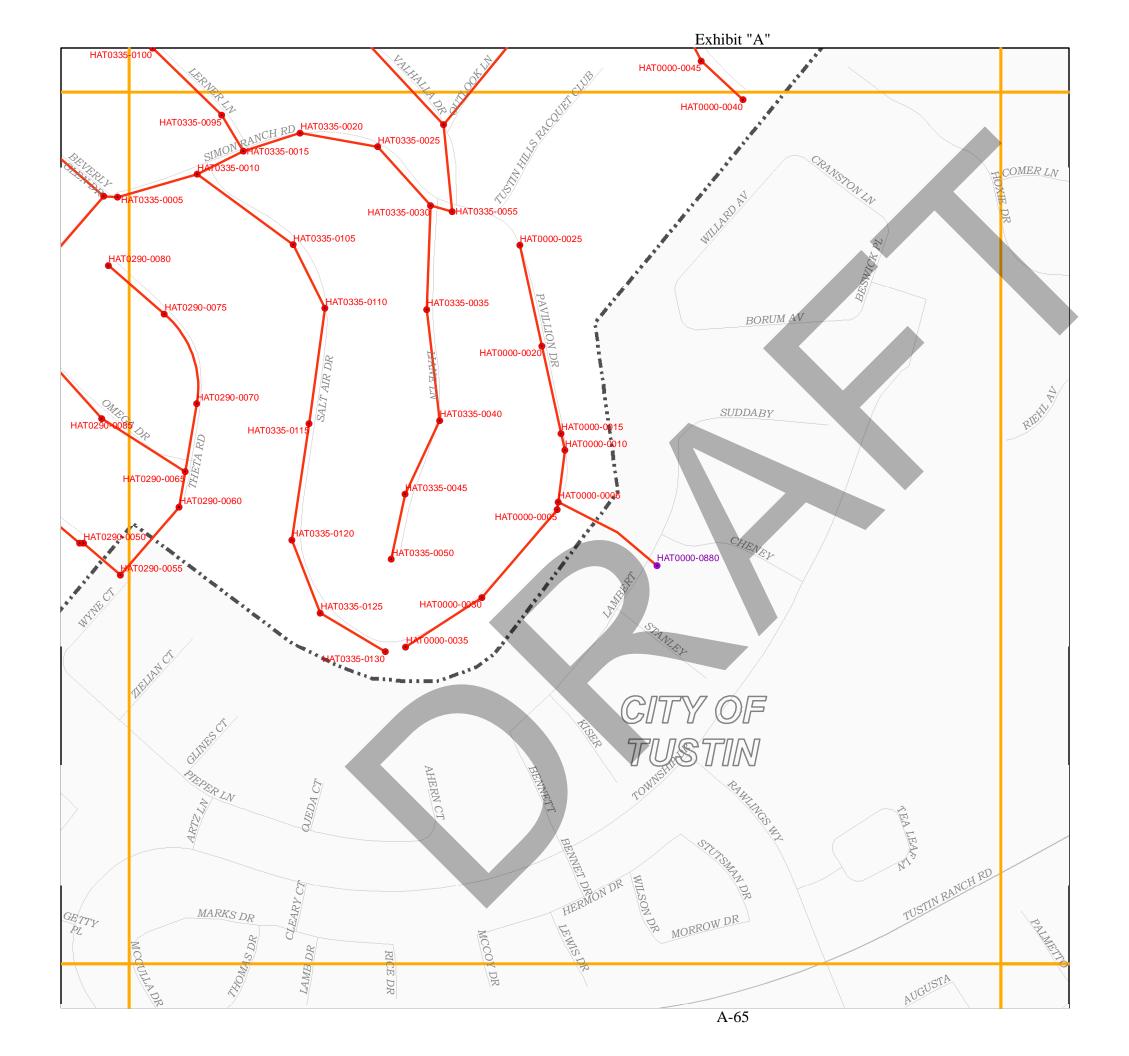


OCSD Geographic Information Systems

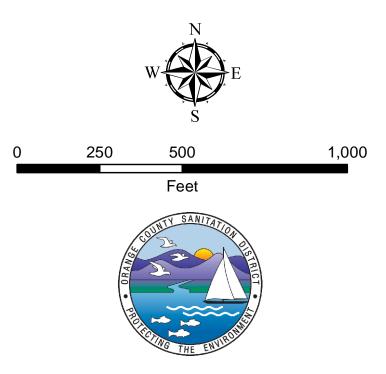
Map prepared by Orange County Sanitation District. This map is intended for graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved.

Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3849



- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer
- Local Sewers Proposed forTransfer
- Regional Sewers Retained By OCSD
- City of Tustin Boundary

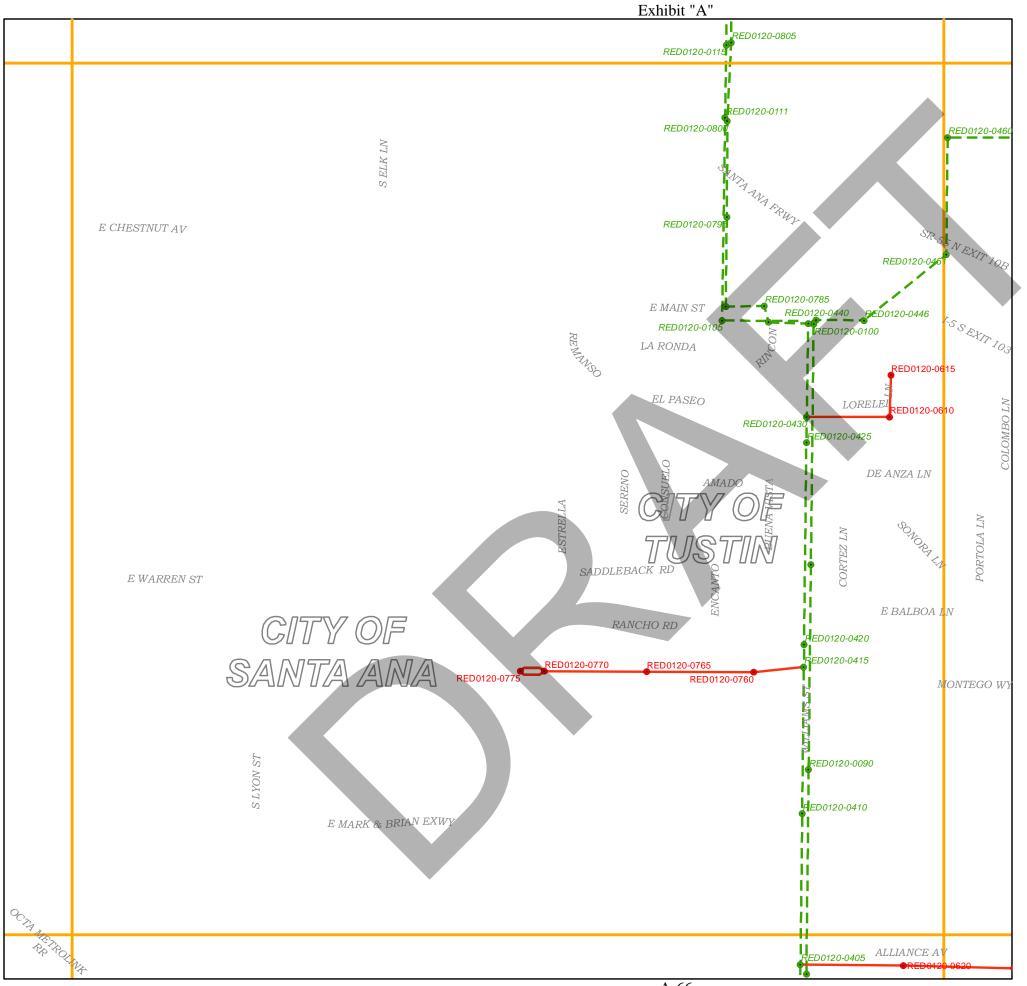


OCSD Geographic Information Systems

Map prepared by Orange County Sanitation District. This map is intended for graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved.

Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3850

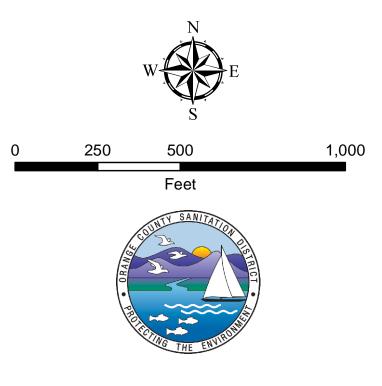


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary

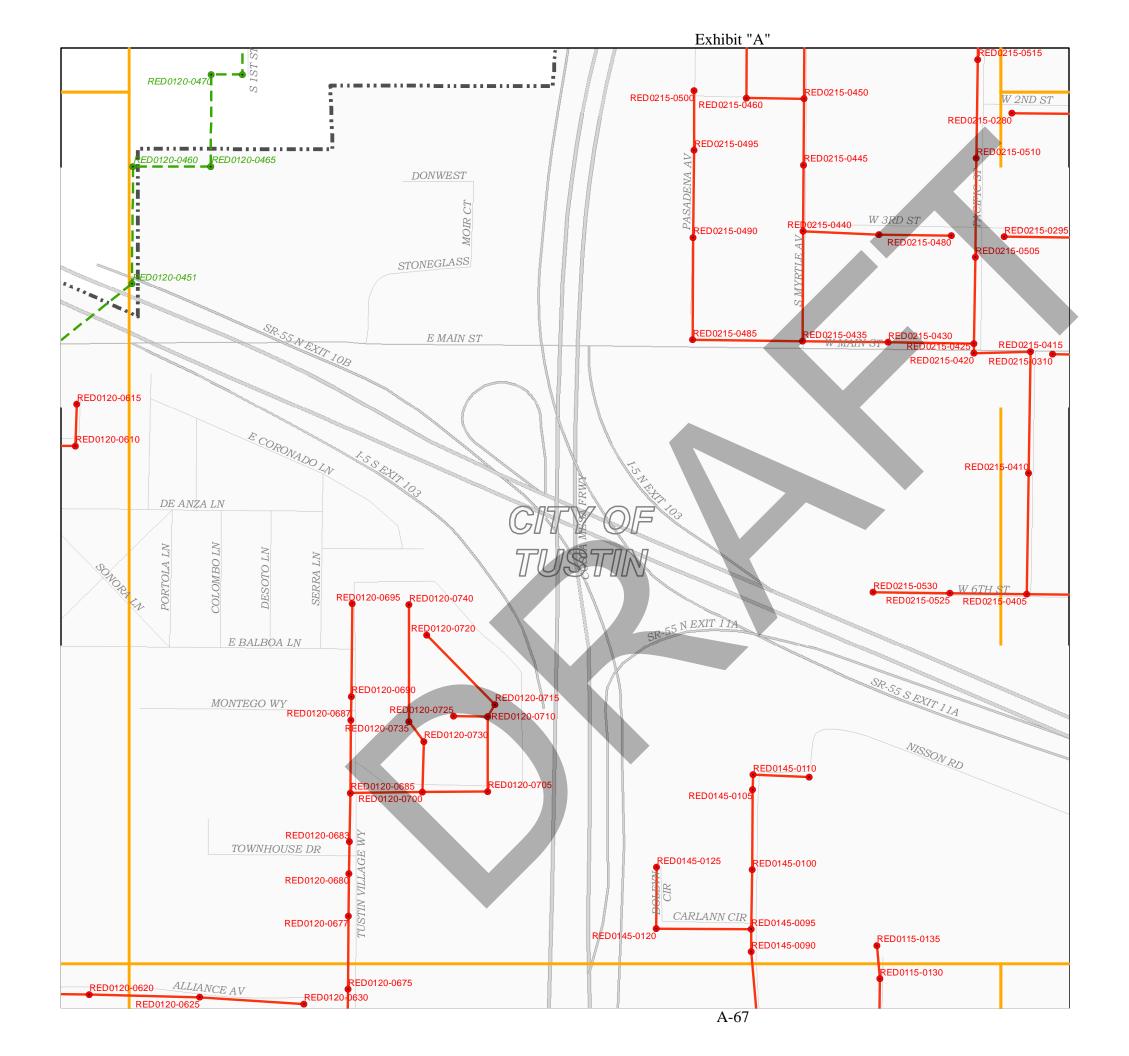


OCSD Geographic Information Systems

Map prepared by Orange County Sanitation District. This map is intended for graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved.

Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3943

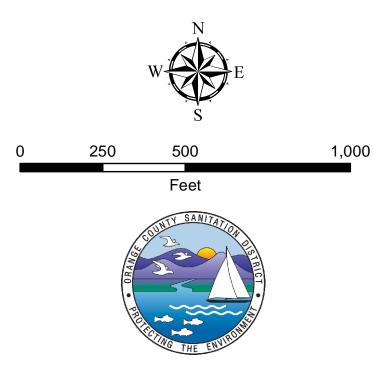


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary

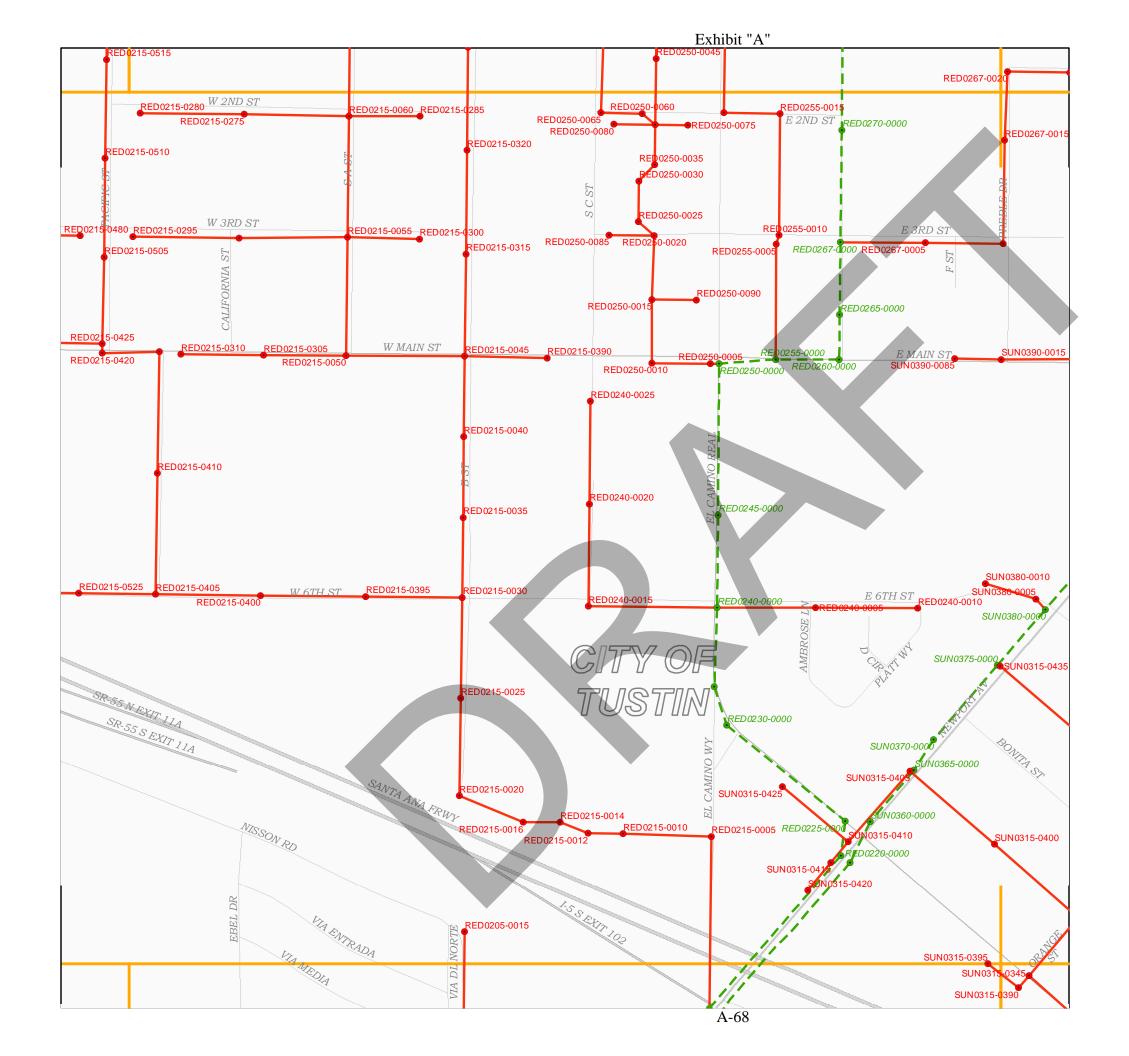


OCSD Geographic Information Systems

Map prepared by Orange County Sanitation District. This map is intended for graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved.

Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3944

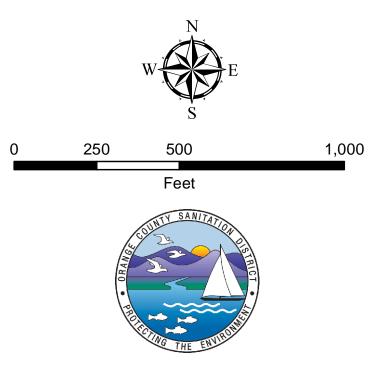


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary

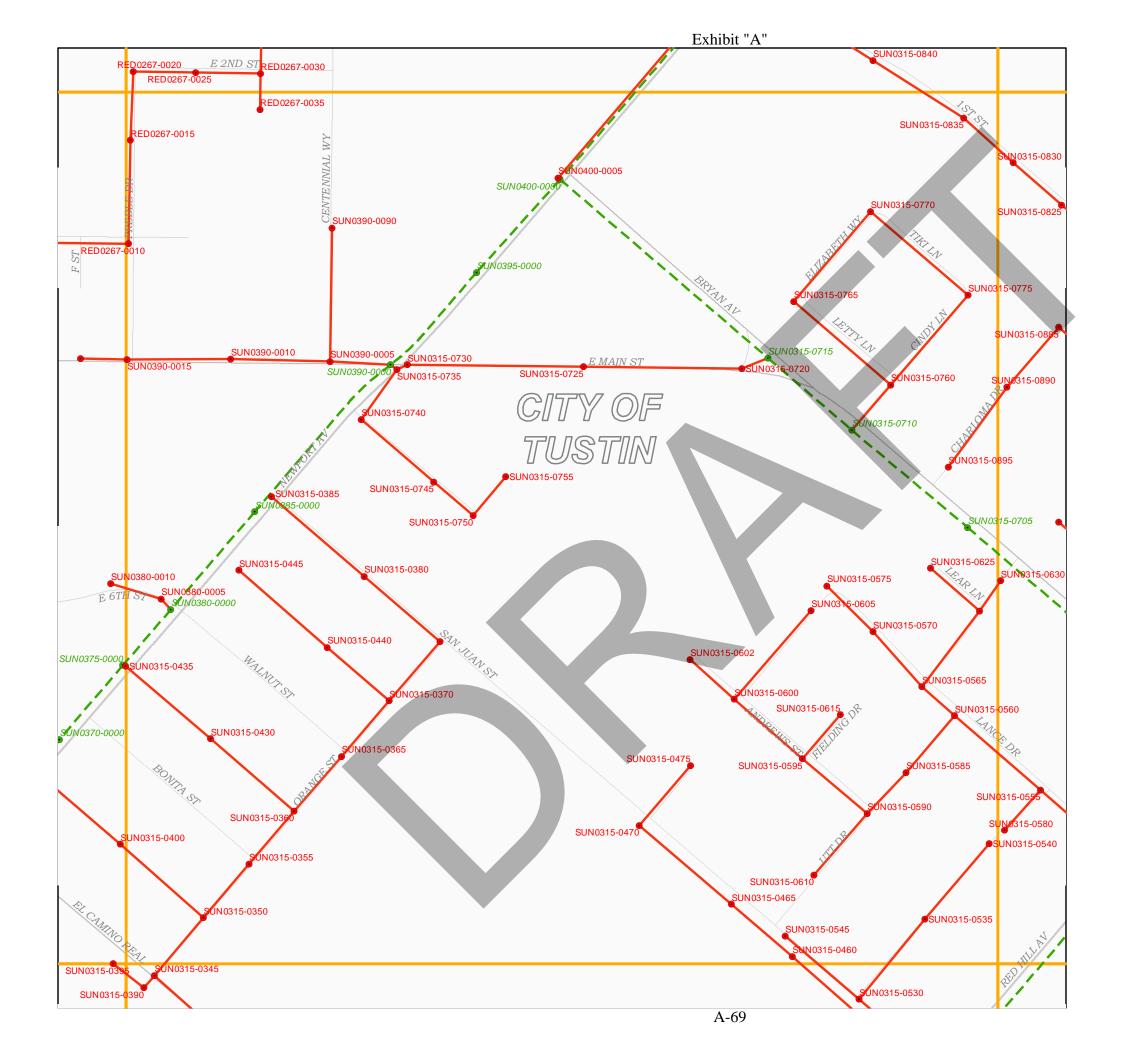


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3945

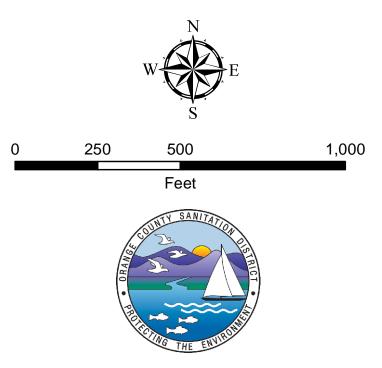


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary

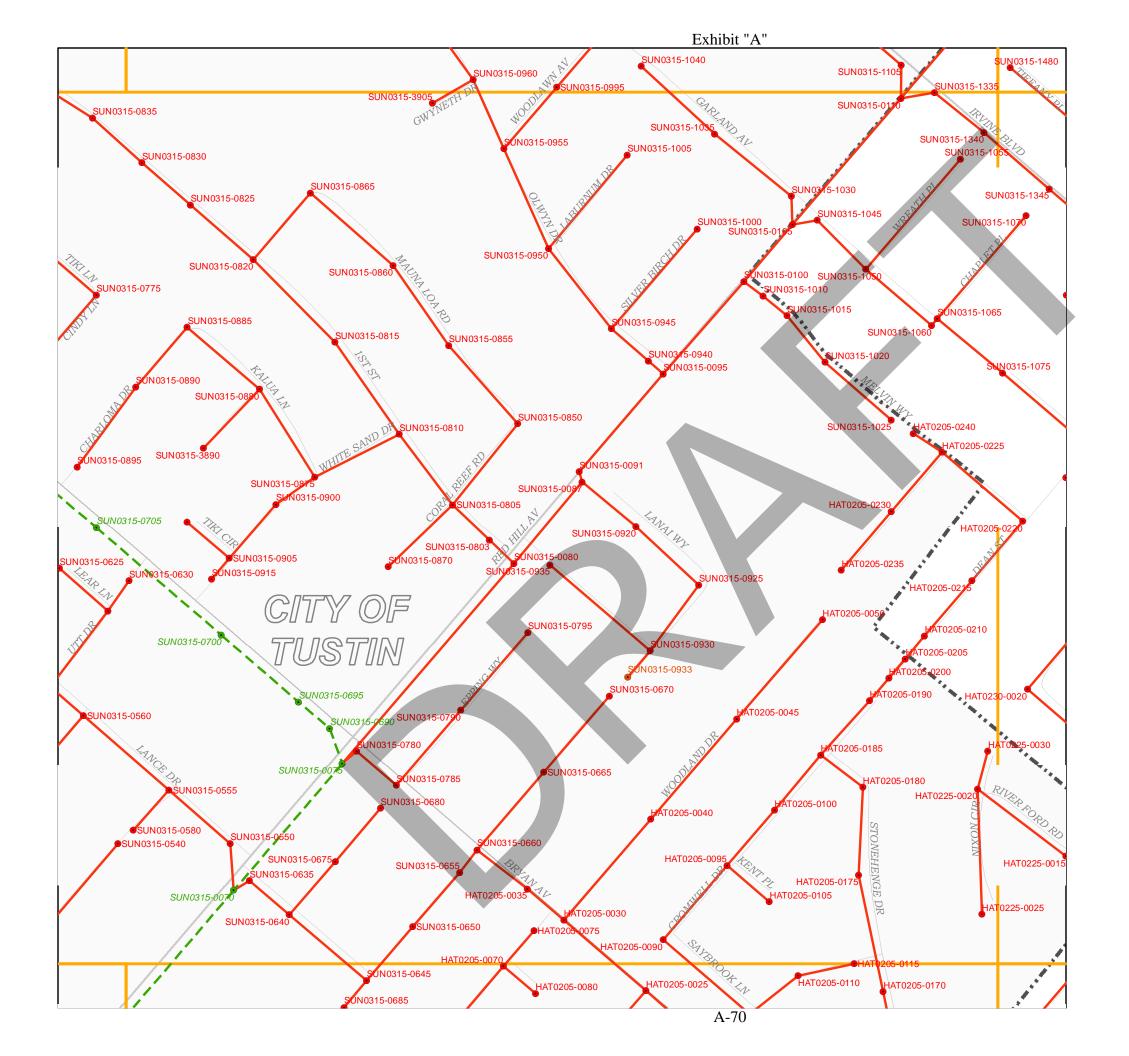


OCSD Geographic Information Systems

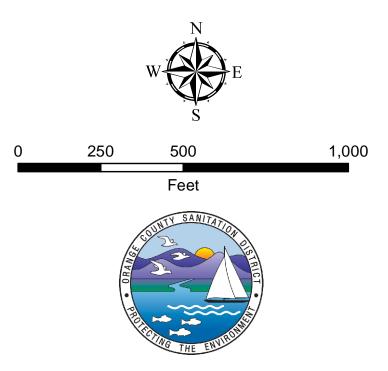
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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3946



- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer
- Local Sewers Proposed forTransfer
- Regional Sewers Retained By OCSD
 - City of Tustin Boundary

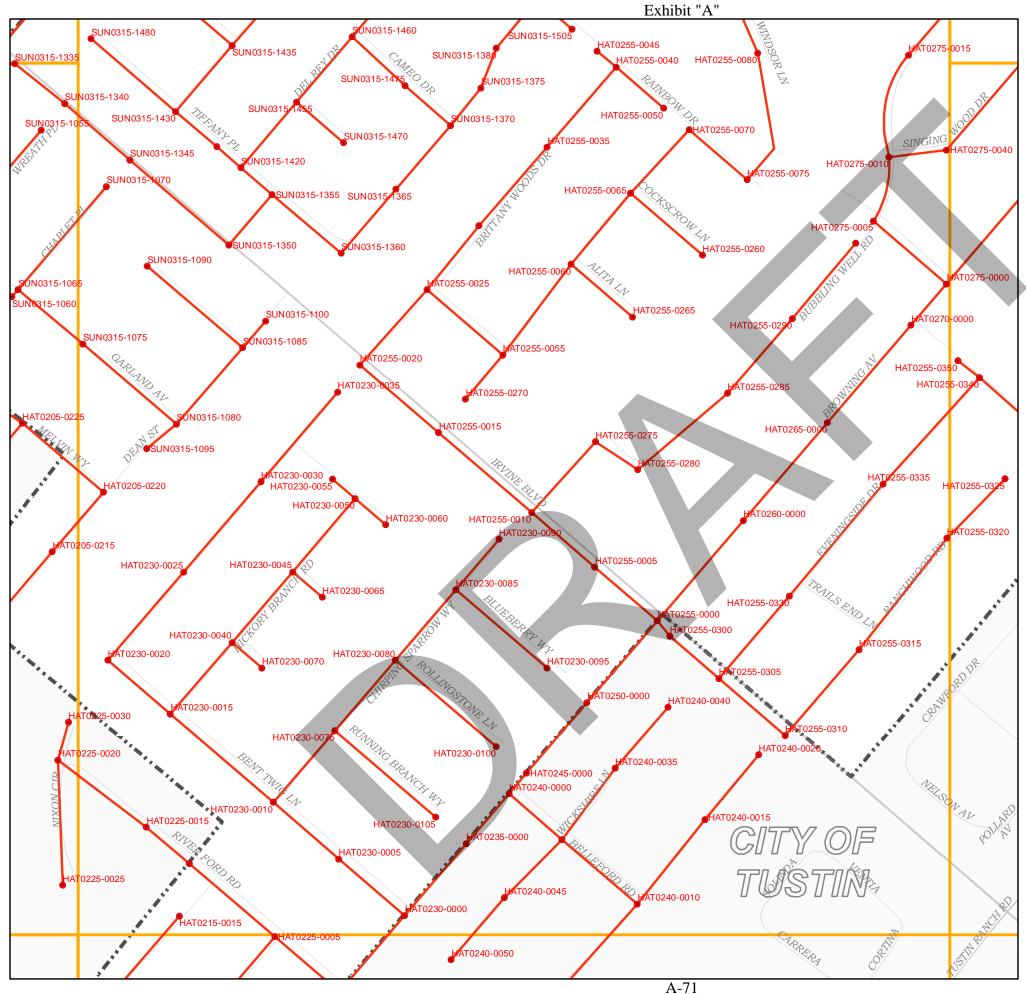


OCSD Geographic Information Systems

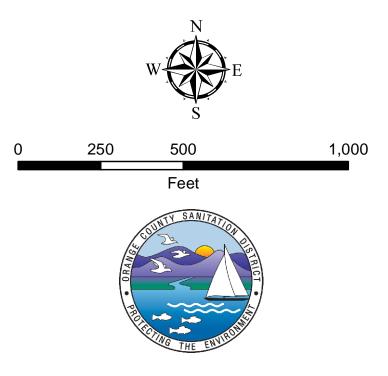
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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3947



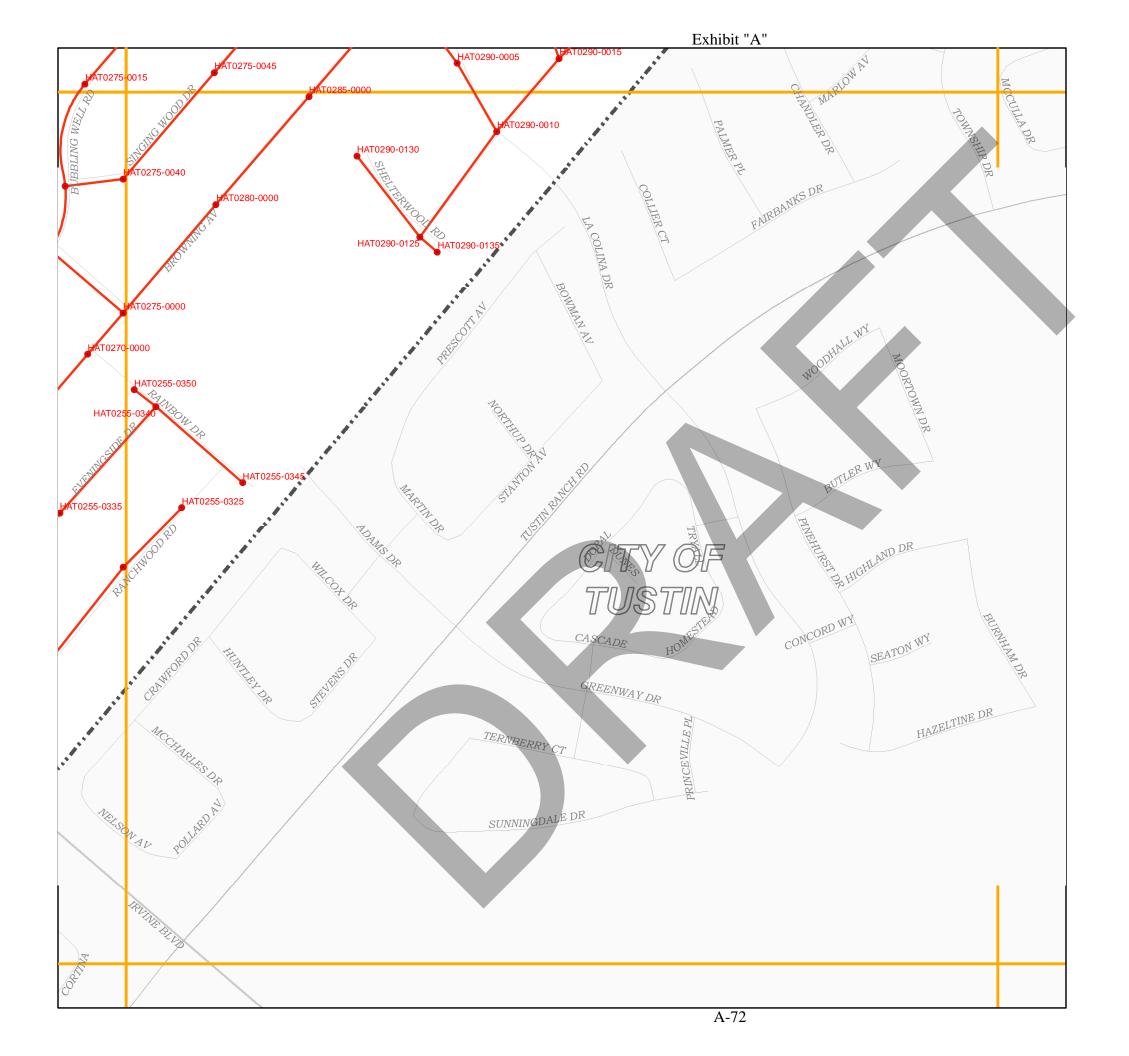
- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer
- Local Sewers Proposed forTransfer
- Regional Sewers Retained By OCSD
- City of Tustin Boundary



OCSD Geographic Information Systems

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OCSD Page Number: 3948

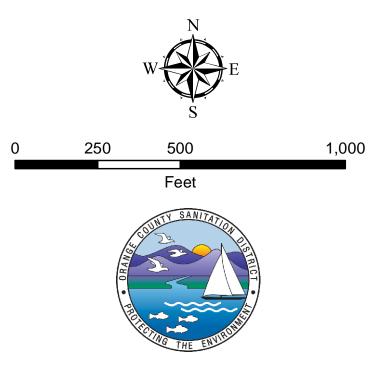


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary

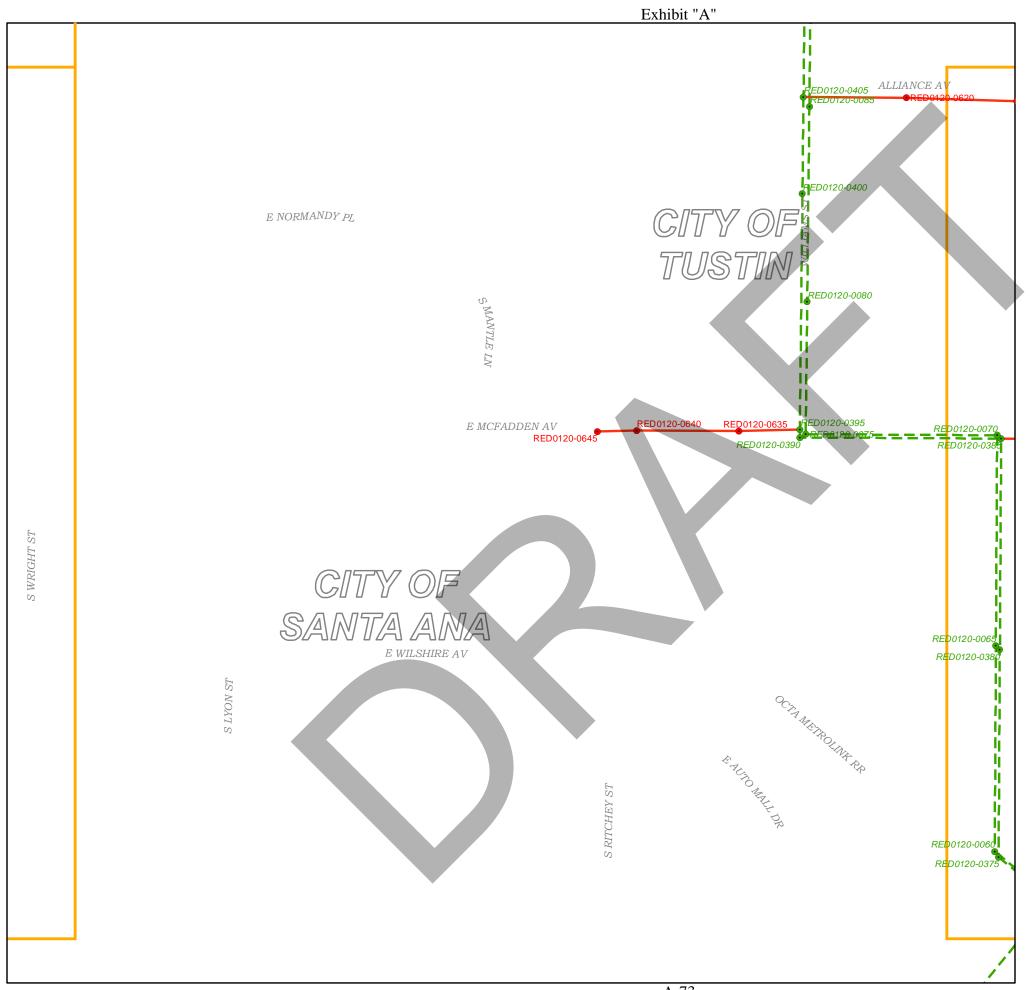


OCSD Geographic Information Systems

Map prepared by Orange County Sanitation District. This map is intended for graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved.

Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 3949

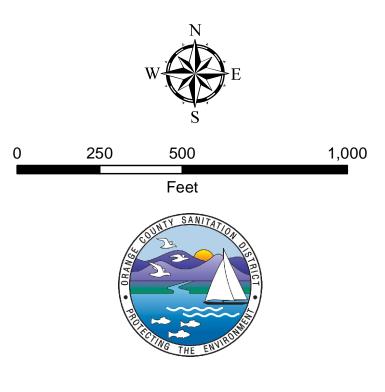


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer

Local Sewers Proposed forTransfer

Regional Sewers Retained By OCSD

City of Tustin Boundary

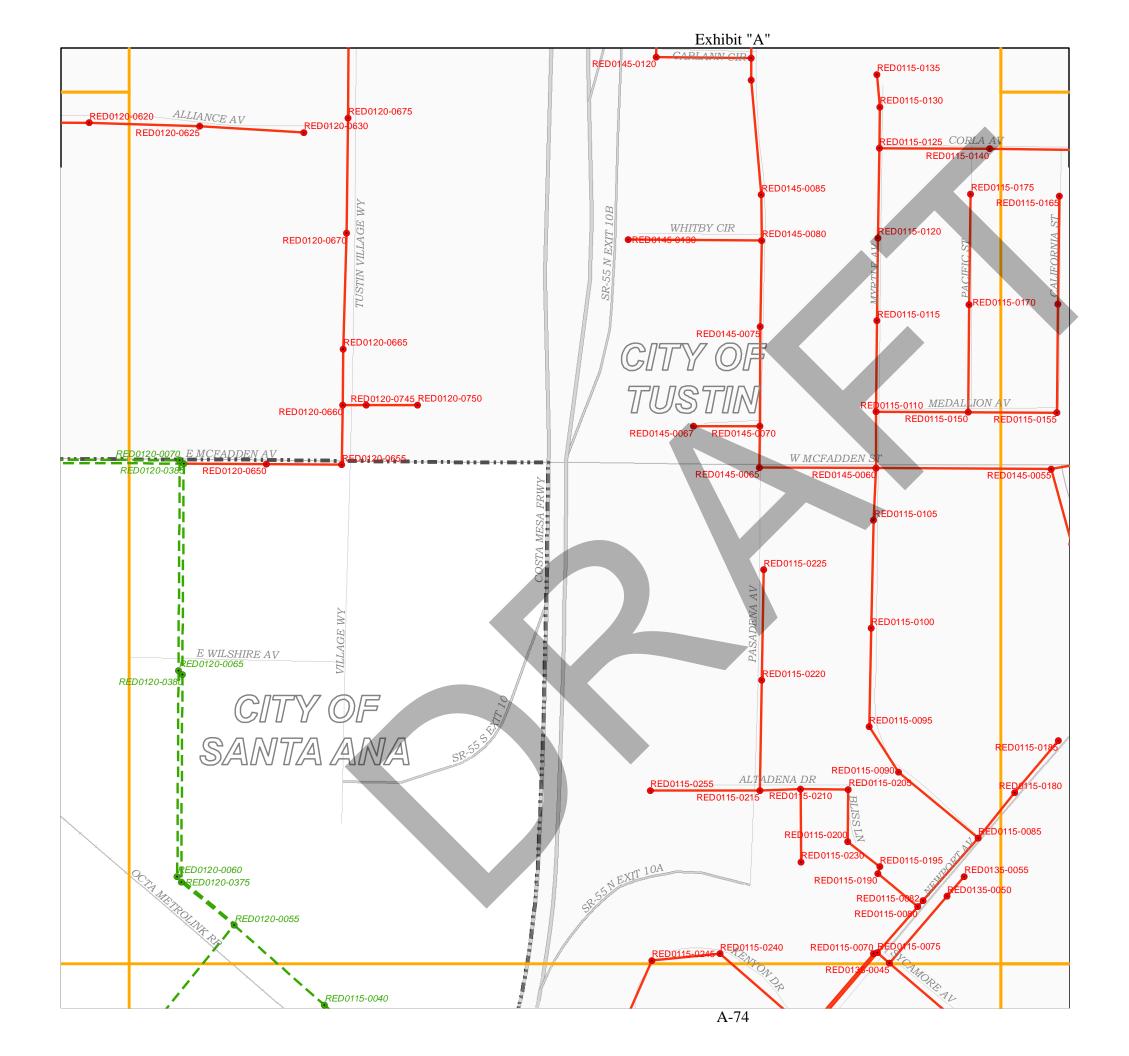


OCSD Geographic Information Systems

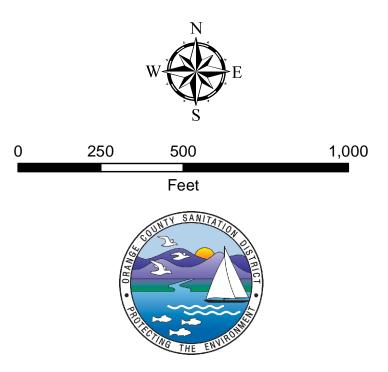
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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 4043



- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer
- Local Sewers Proposed forTransfer
- Regional Sewers Retained By OCSD
- City of Tustin Boundary

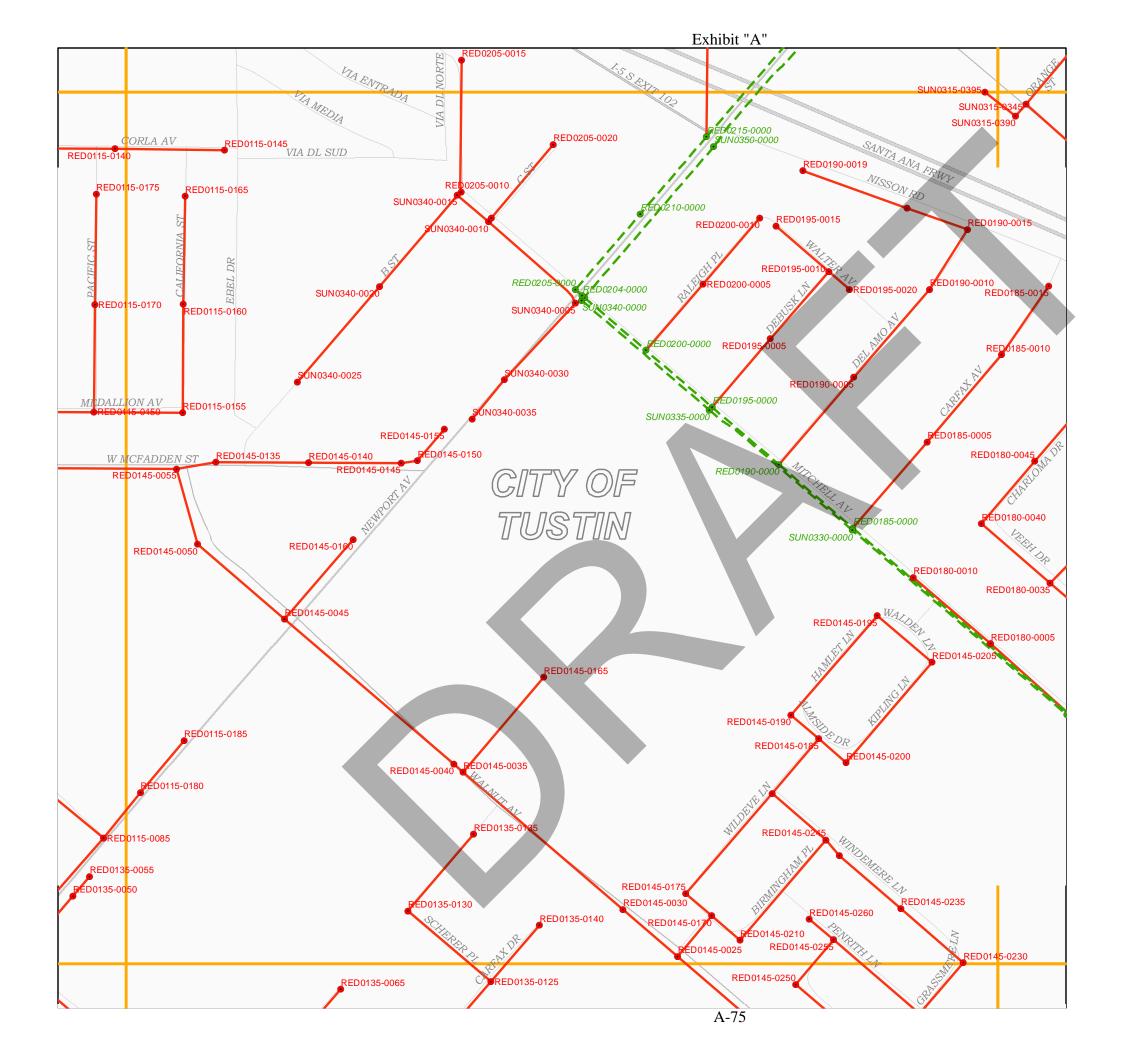


OCSD Geographic Information Systems

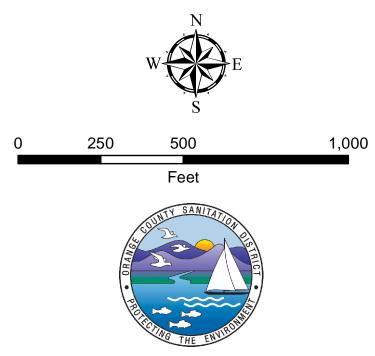
Map prepared by Orange County Sanitation District. This map is intended for graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved.

Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 4044



- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer
- Local Sewers Proposed forTransfer
- Regional Sewers Retained By OCSD
- City of Tustin Boundary

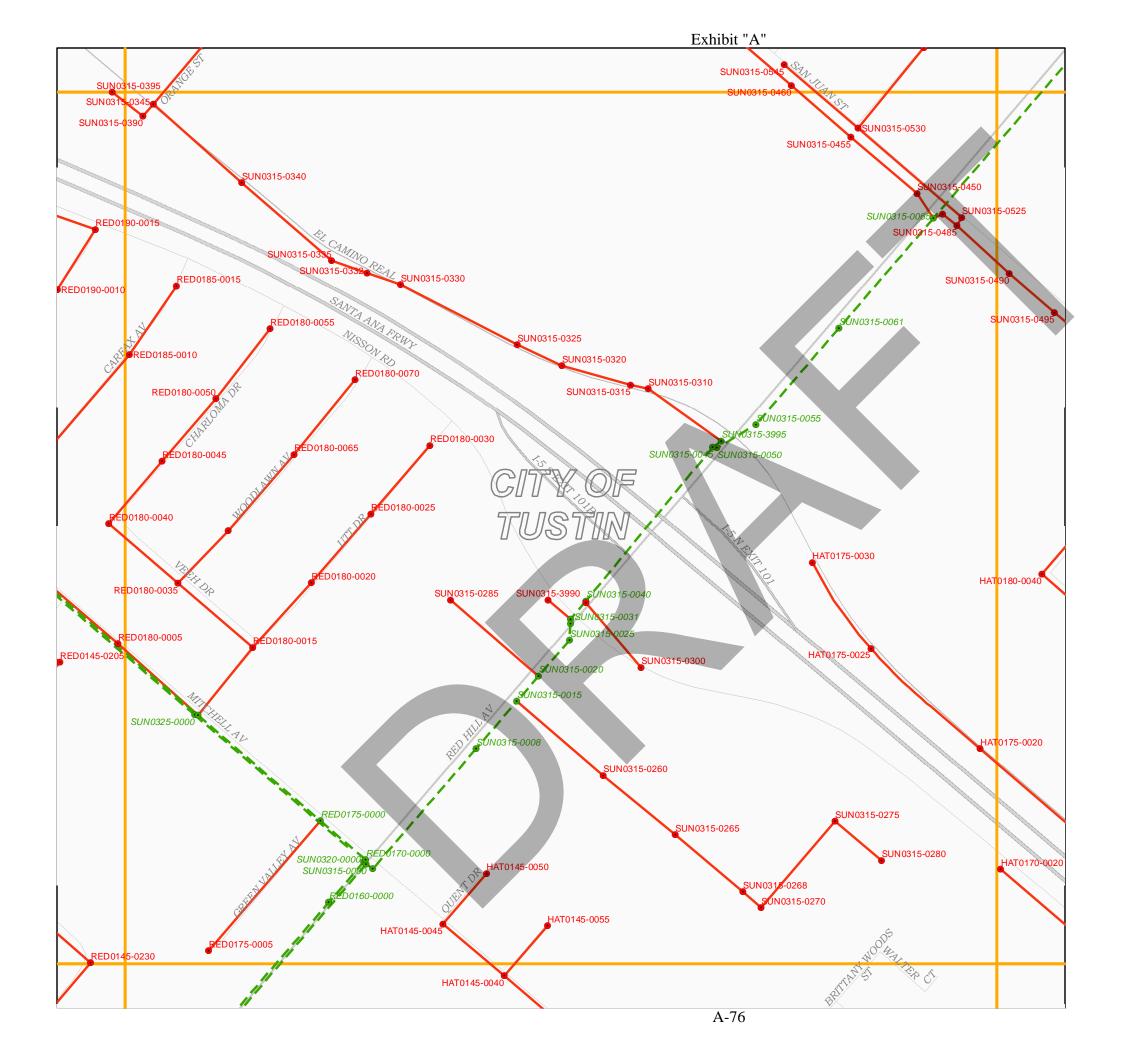


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 4045

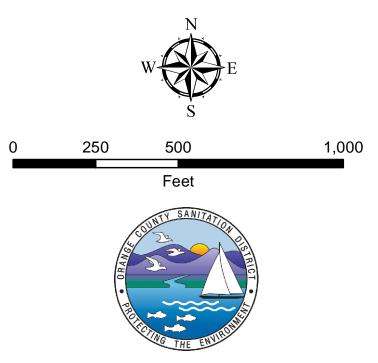


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary

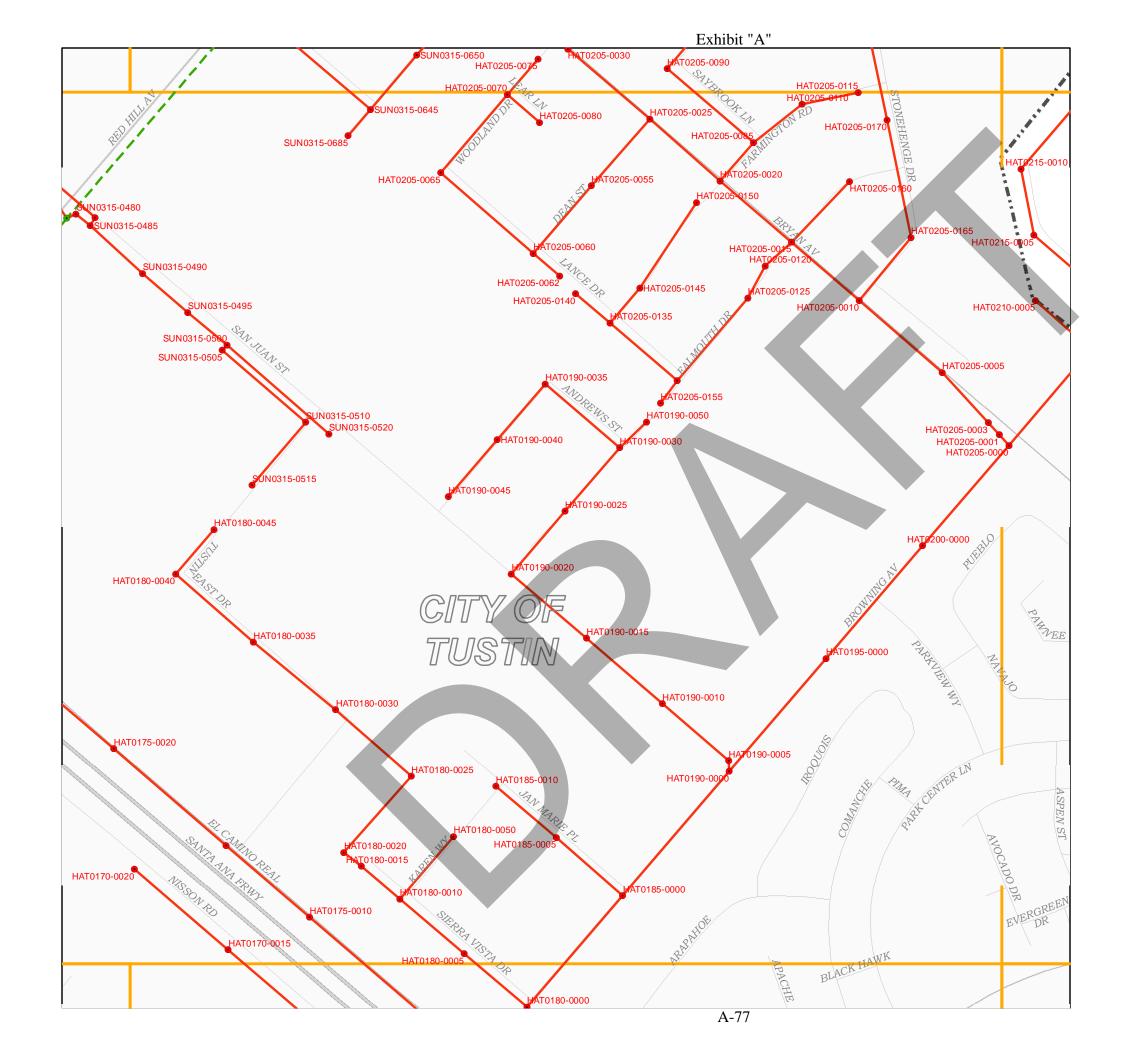


OCSD Geographic Information Systems

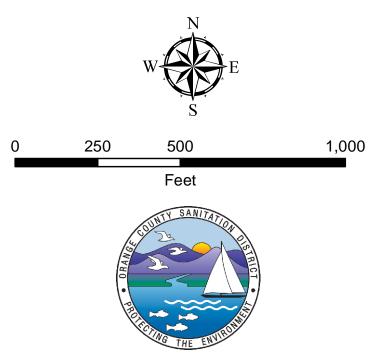
Map prepared by Orange County Sanitation District. This map is intended for graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved.

Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 4046



- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer
- Local Sewers Proposed forTransfer
- Regional Sewers Retained By OCSD
- City of Tustin Boundary

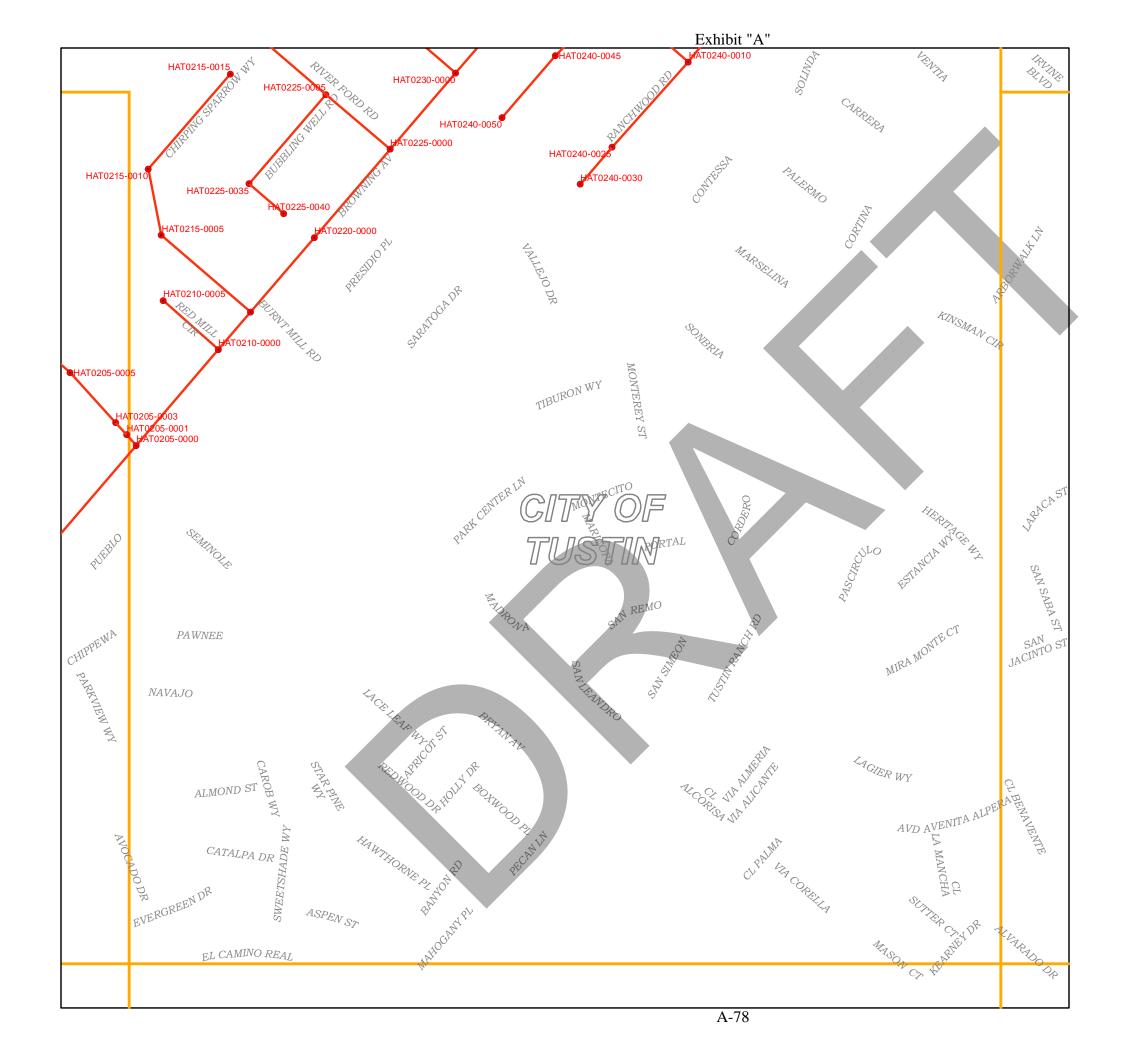


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 4047

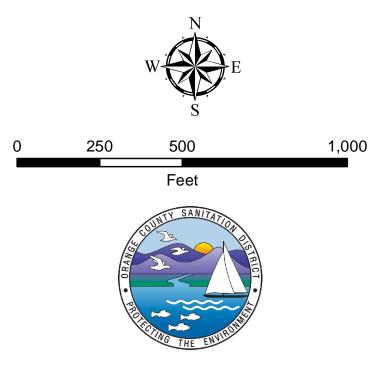


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer

Local Sewers Proposed forTransfer

Regional Sewers Retained By OCSD

City of Tustin Boundary

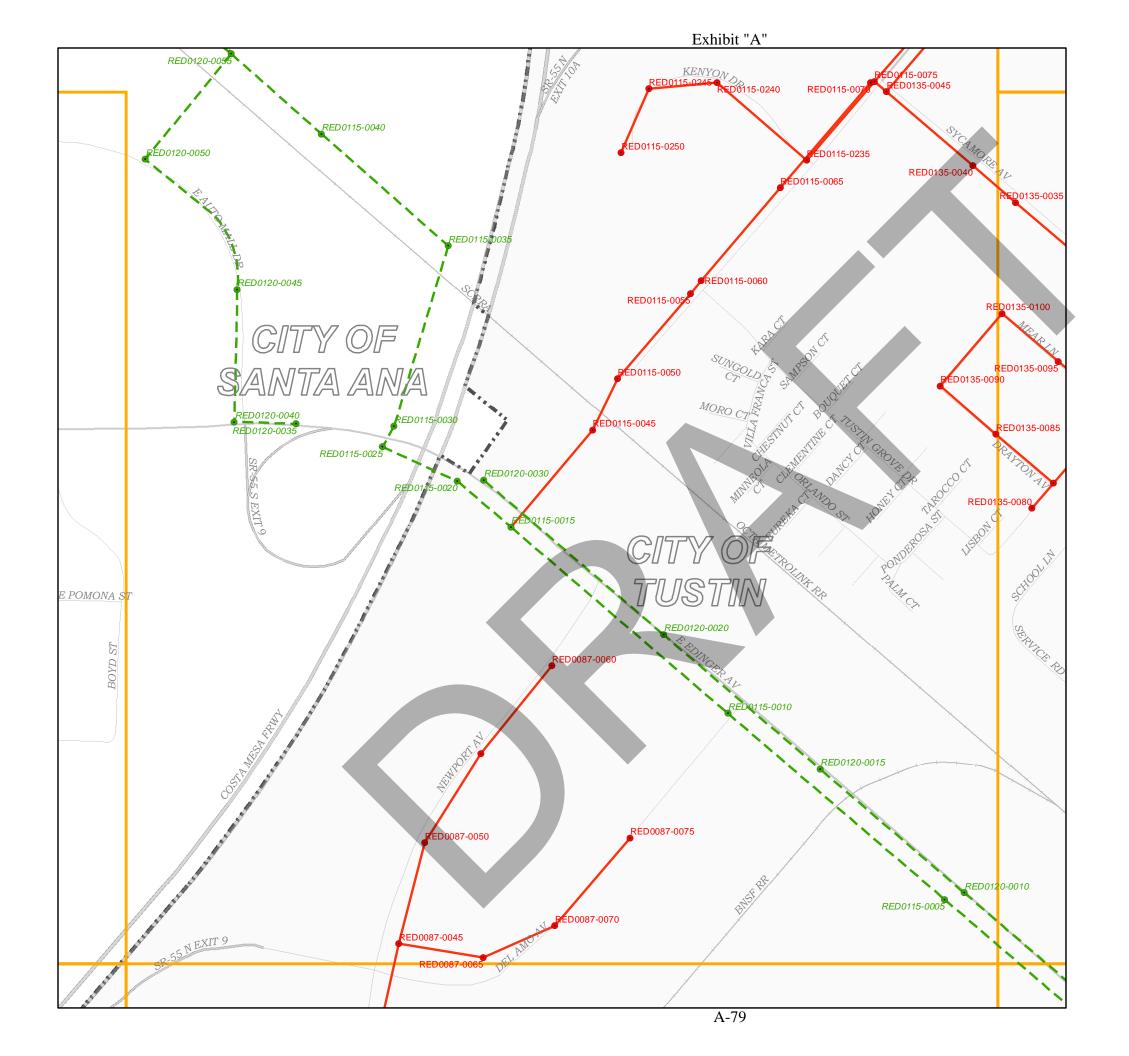


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 4048

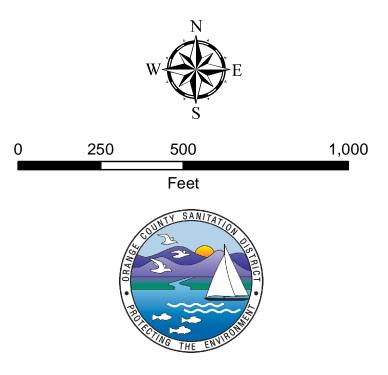


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary

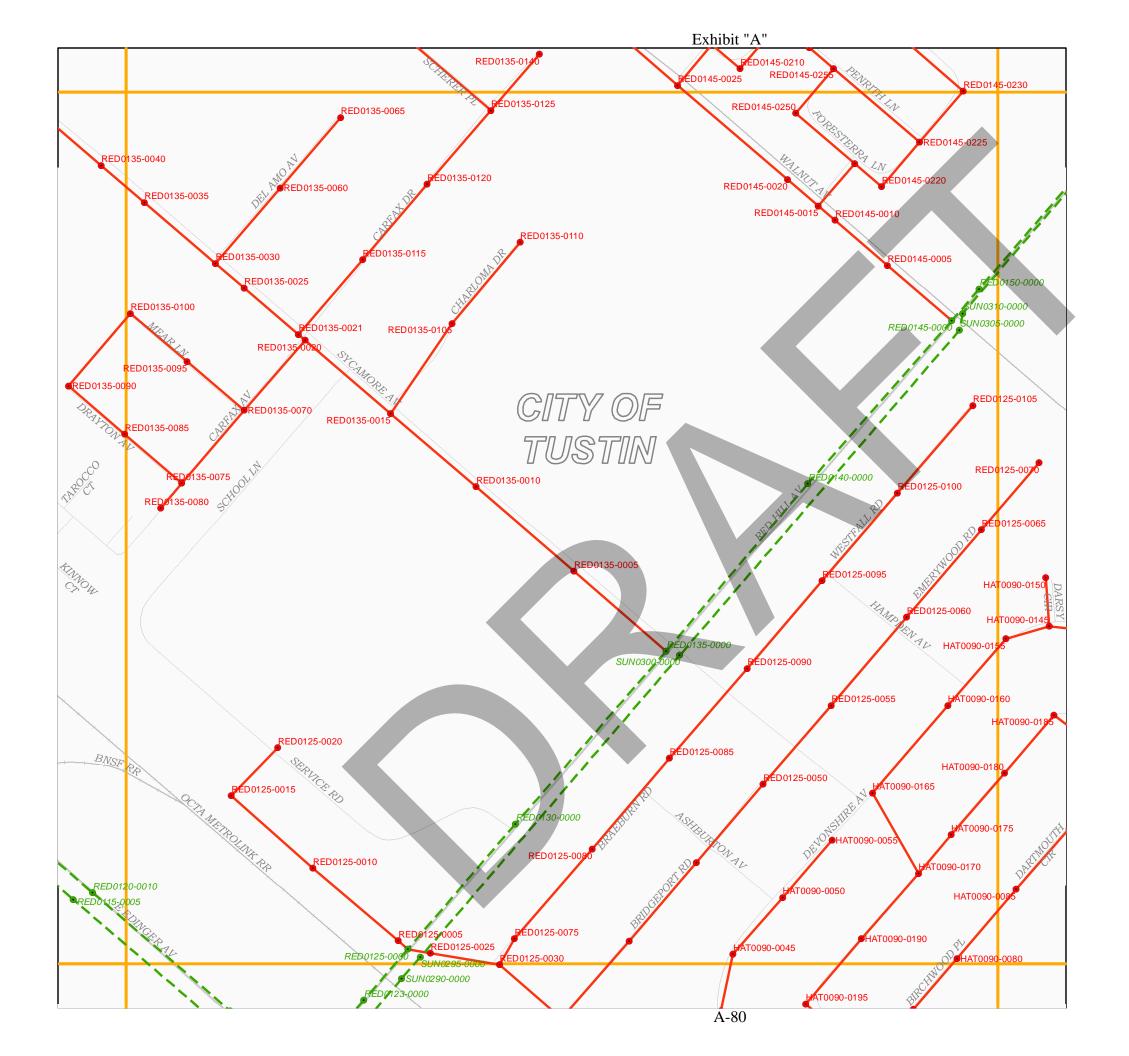


OCSD Geographic Information Systems

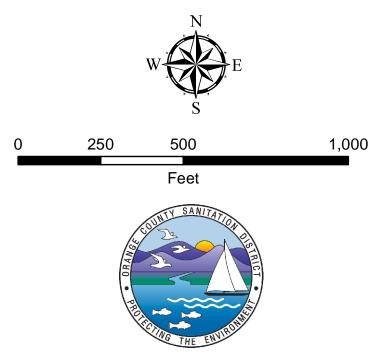
Map prepared by Orange County Sanitation District. This map is intended for graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved.

Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 4144



- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer
- Local Sewers Proposed forTransfer
- Regional Sewers Retained By OCSD
- City of Tustin Boundary

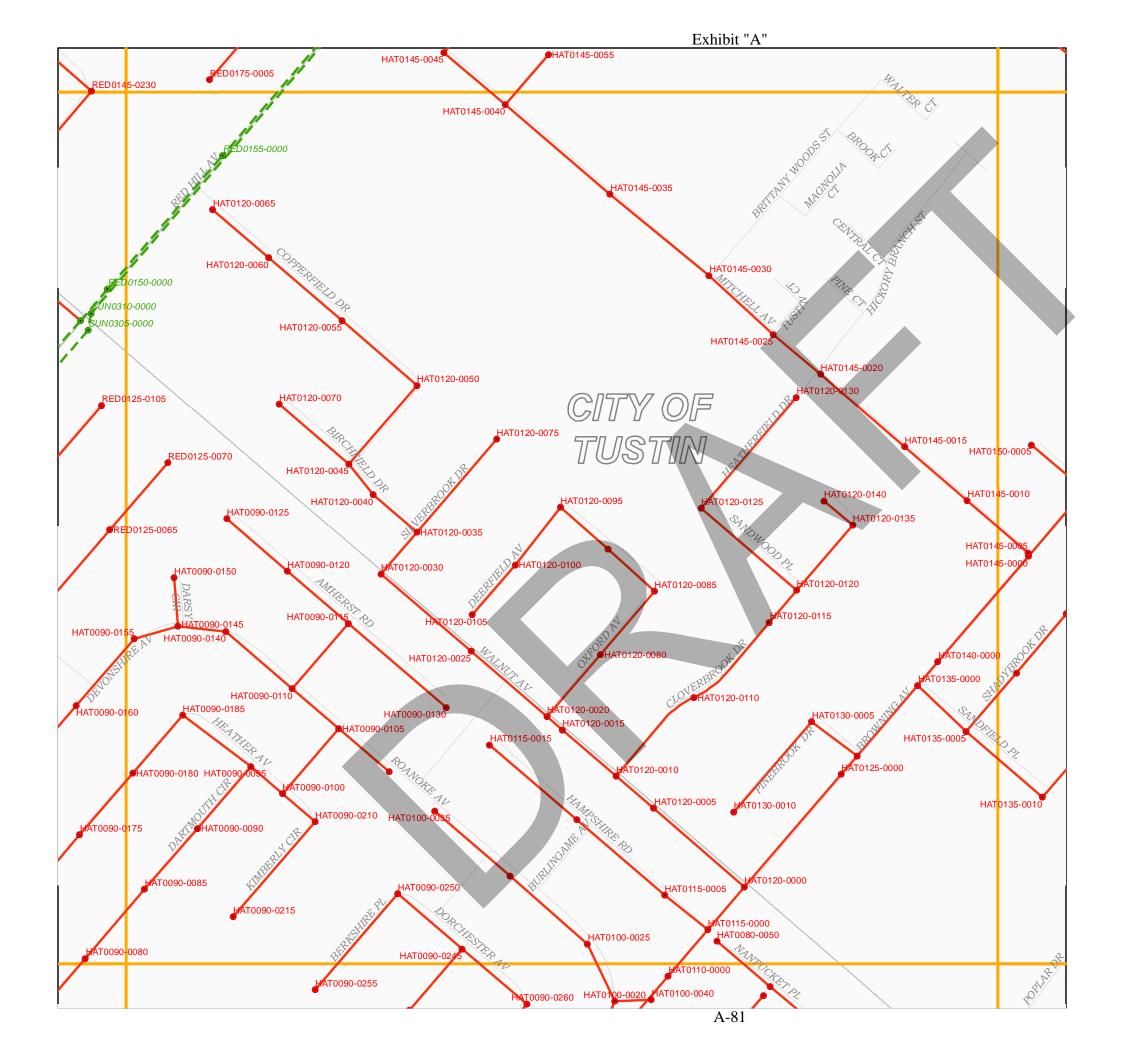


OCSD Geographic Information Systems

Map prepared by Orange County Sanitation District. This map is intended for graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved.

Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 4145

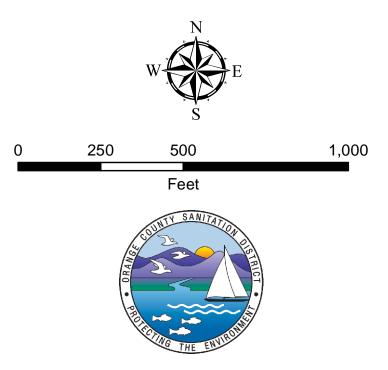


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary

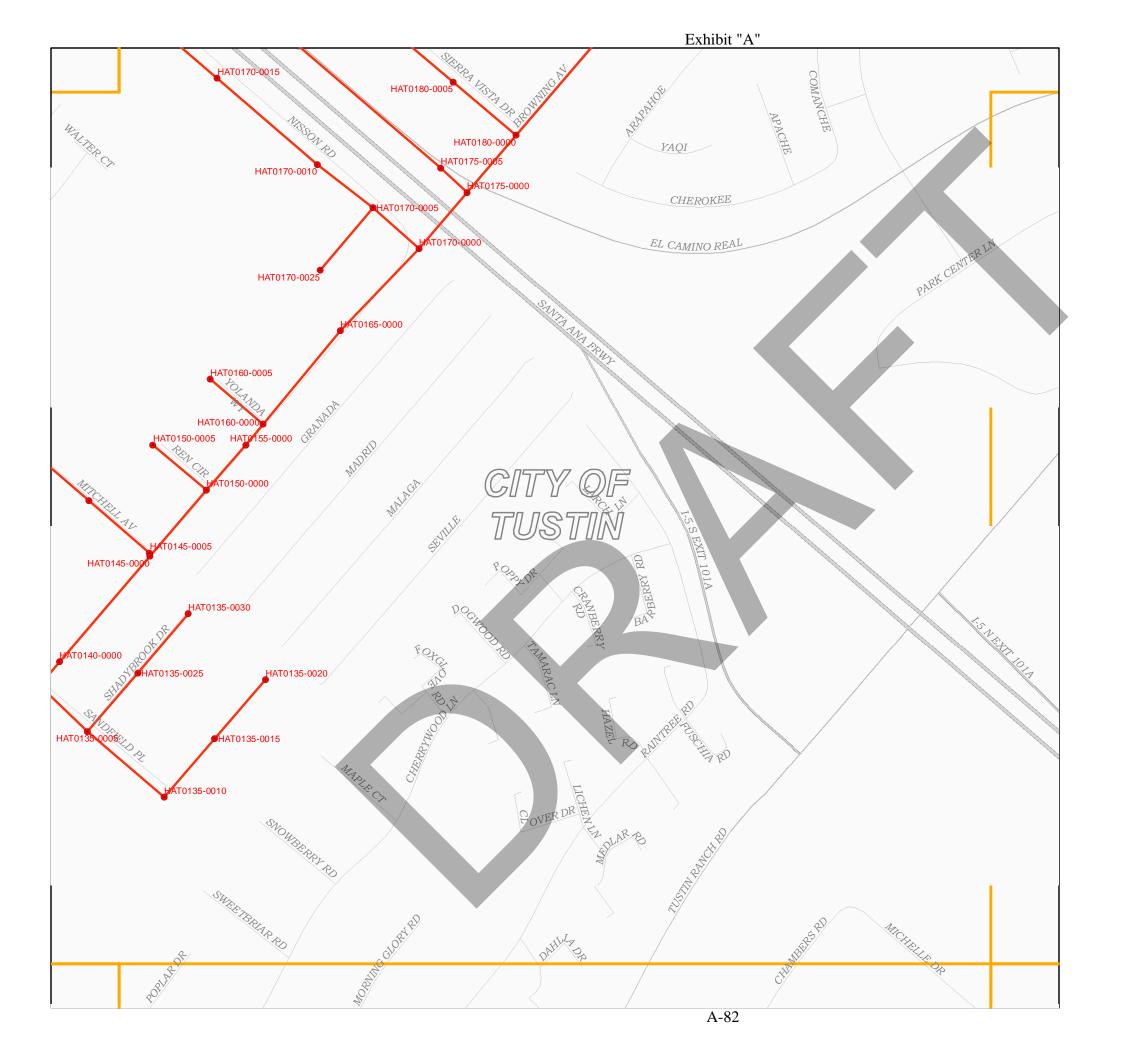


OCSD Geographic Information Systems

Map prepared by Orange County Sanitation District. This map is intended for graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved.

Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 4146

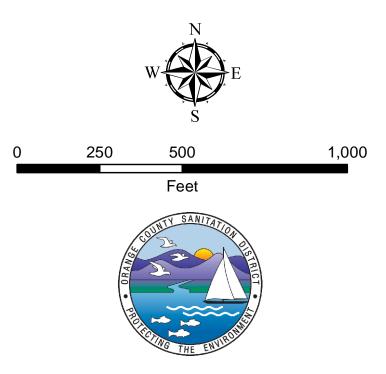


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary



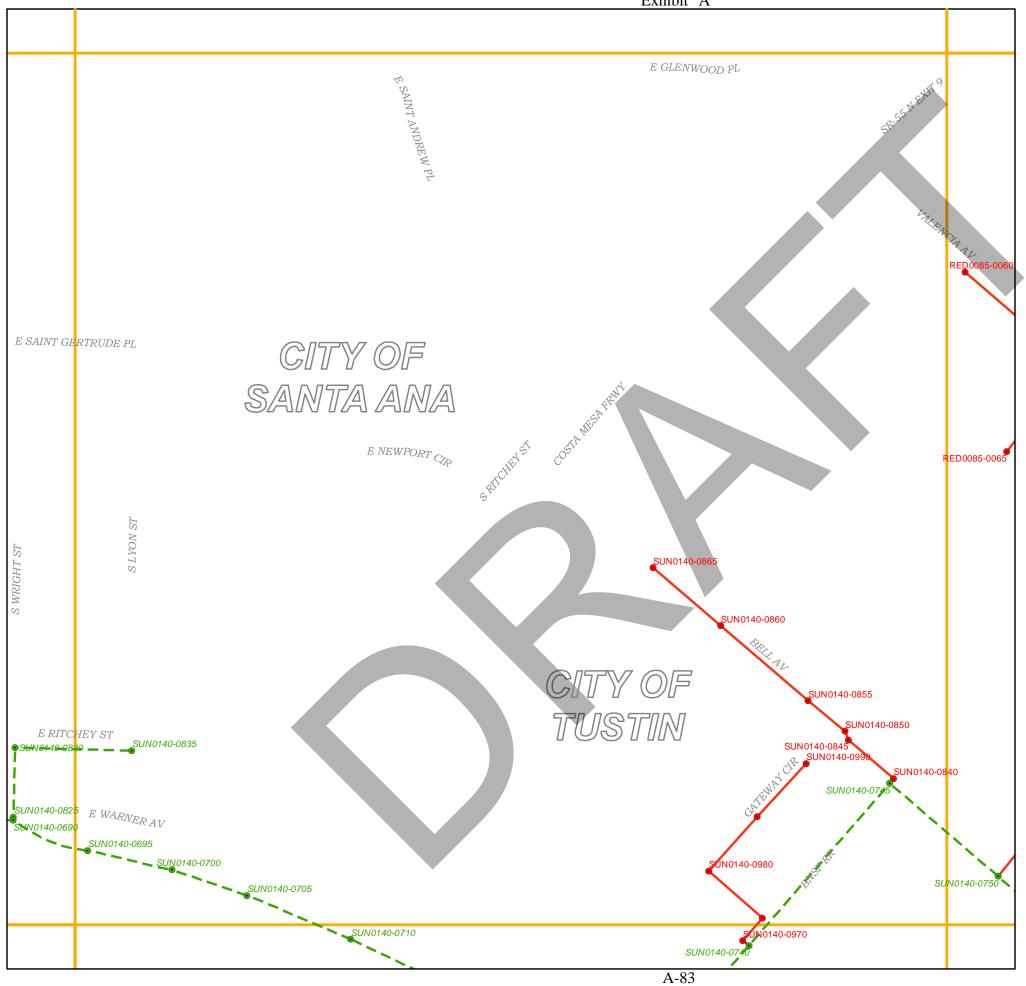
OCSD Geographic Information Systems

Map prepared by Orange County Sanitation District. This map is intended for graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved.

Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 4147

Exhibit "A"



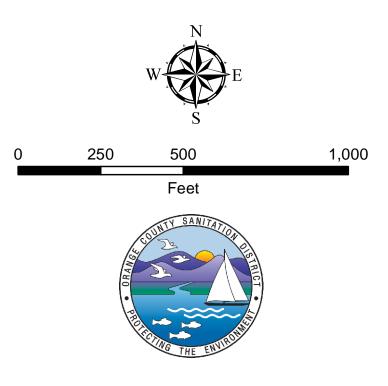
LOCAL SERVICE AREA 7 SEWER TRANSFERS

- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary

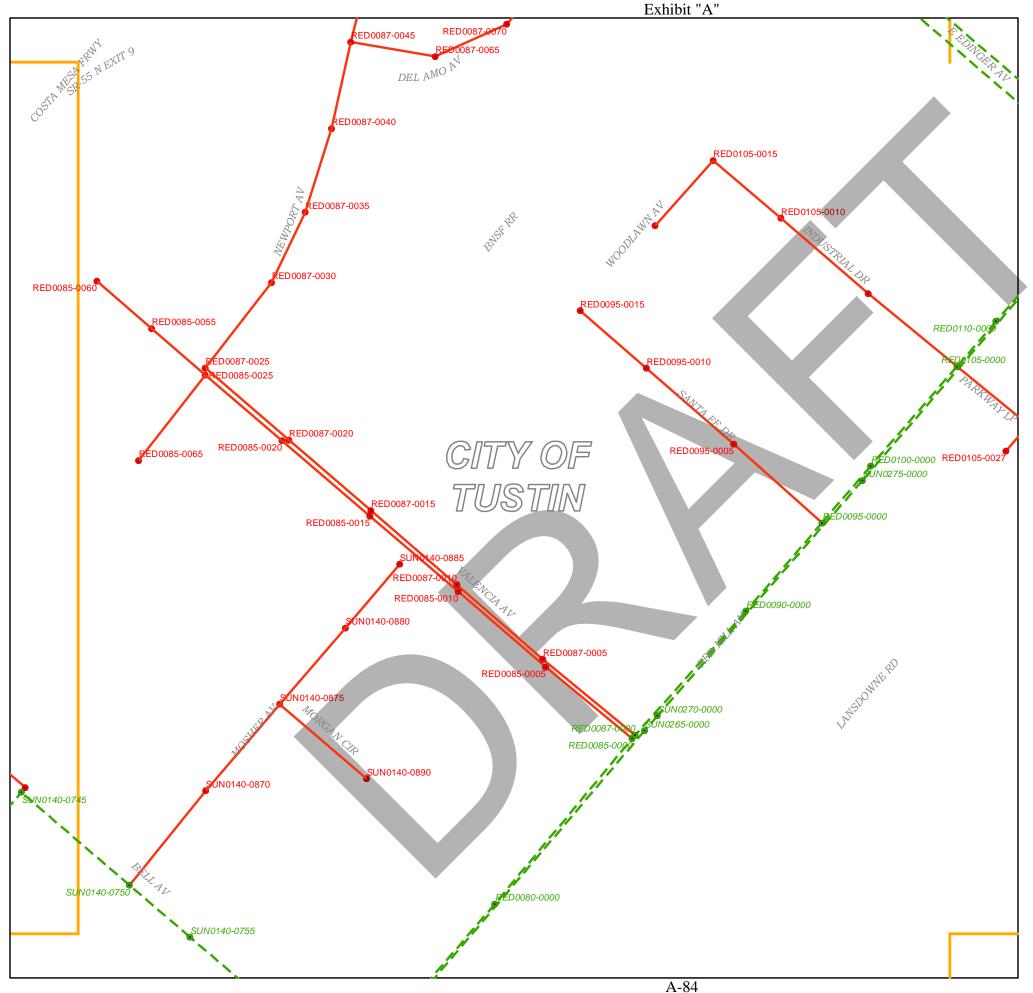


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 4243

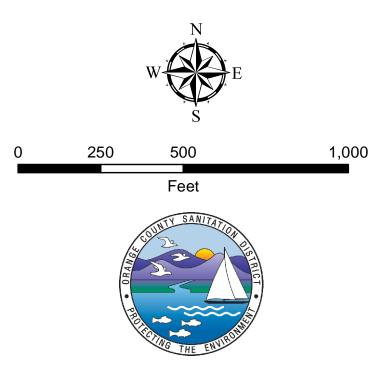


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

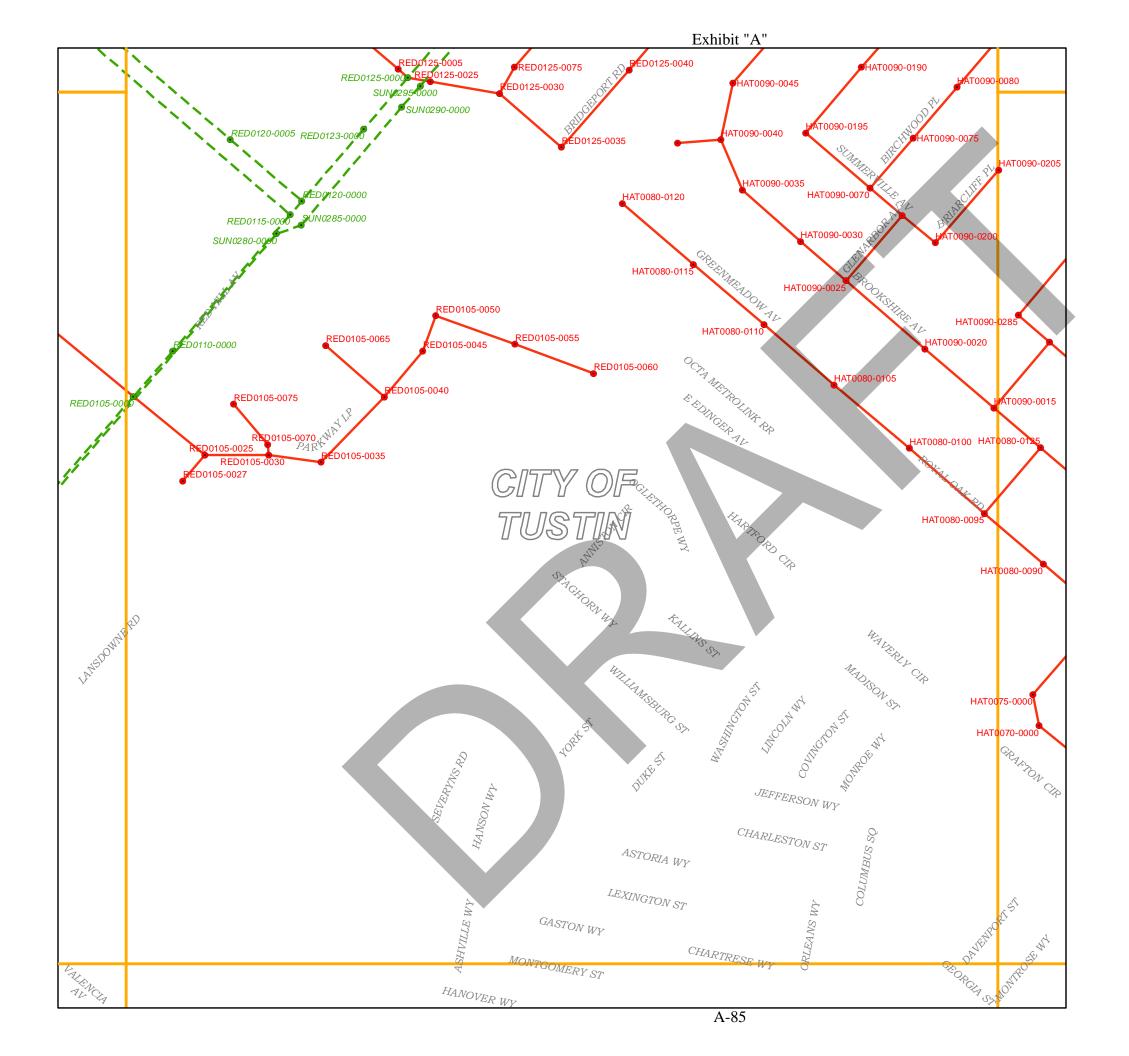
City of Tustin Boundary



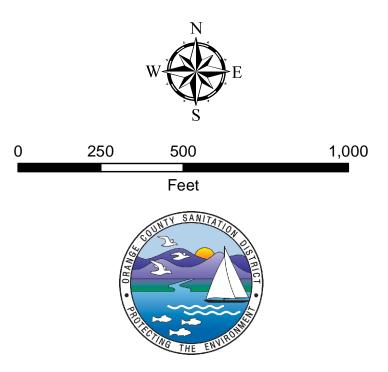
OCSD Geographic Information Systems

 $\label{eq:map:county} \mbox{Map prepared by Orange County Sanitation District. This map is intended for } \\$ graphical representation only. No level of accuracy is claimed for the base mapping shown hereon and graphics should not be used to obtain coordinate values, bearings or distances. Portions of this derived product contain geographical information copyrighted by Thomas Brothers. All Rights Reserved. Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 4244



- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer
- Local Sewers Proposed forTransfer
- Regional Sewers Retained By OCSD
- City of Tustin Boundary

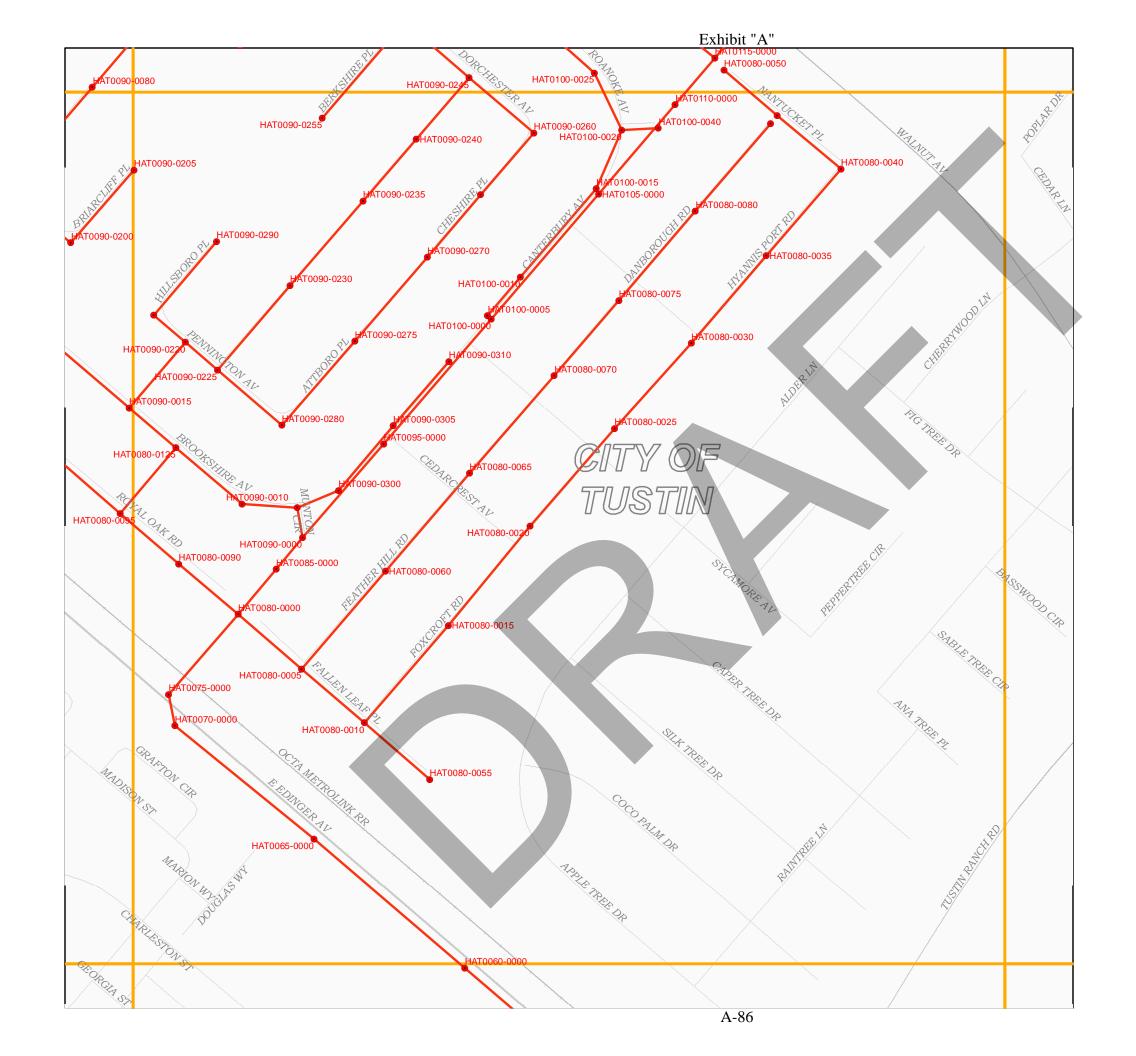


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 4245

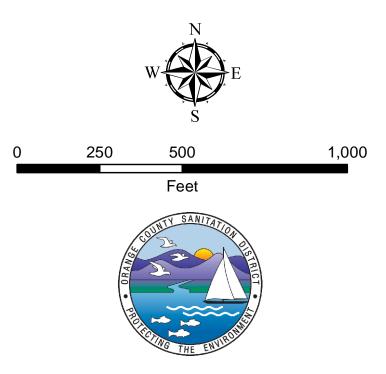


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary

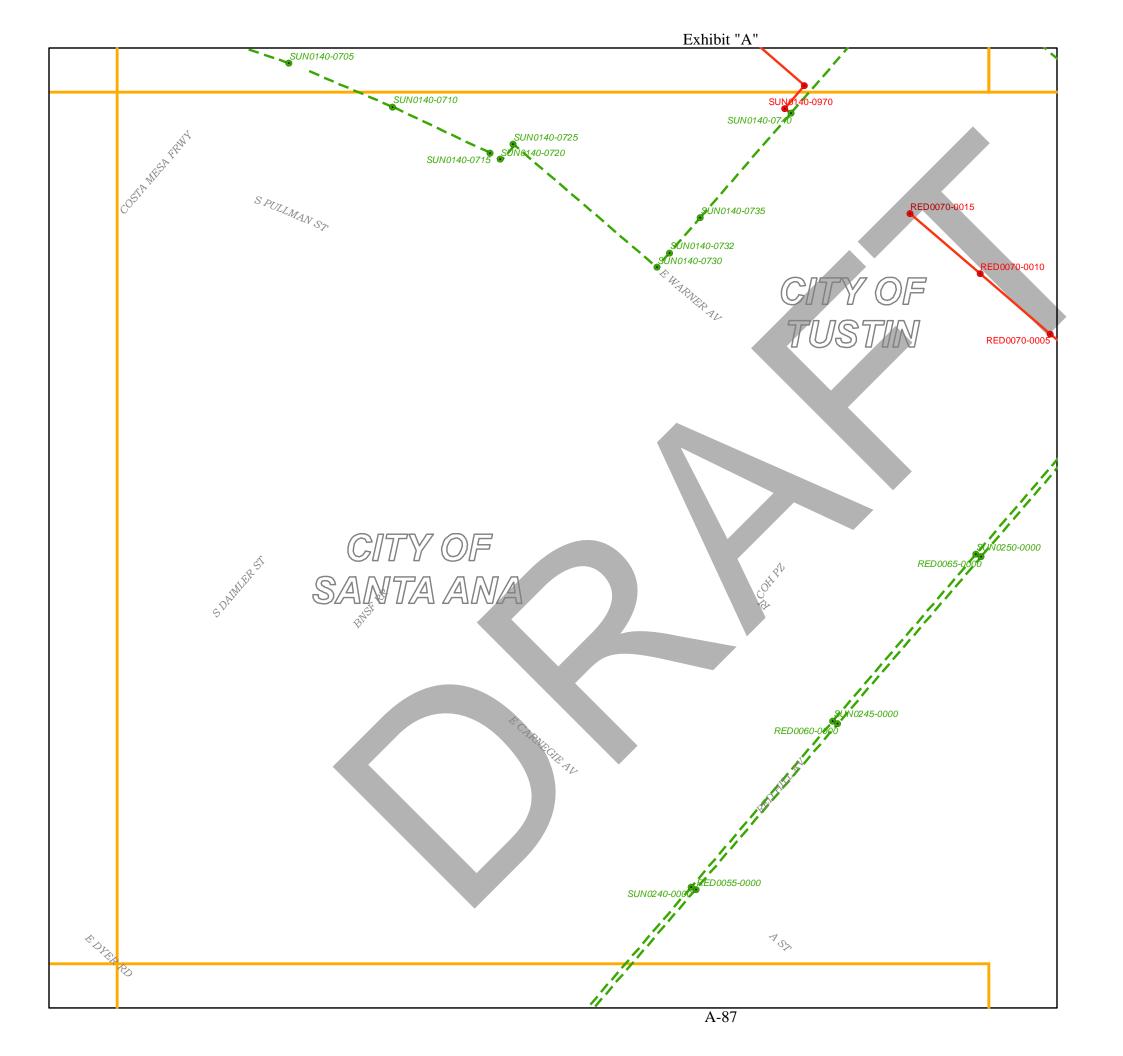


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 4246

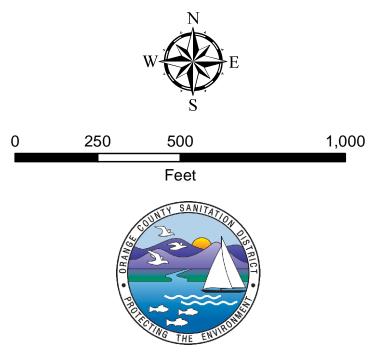


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary

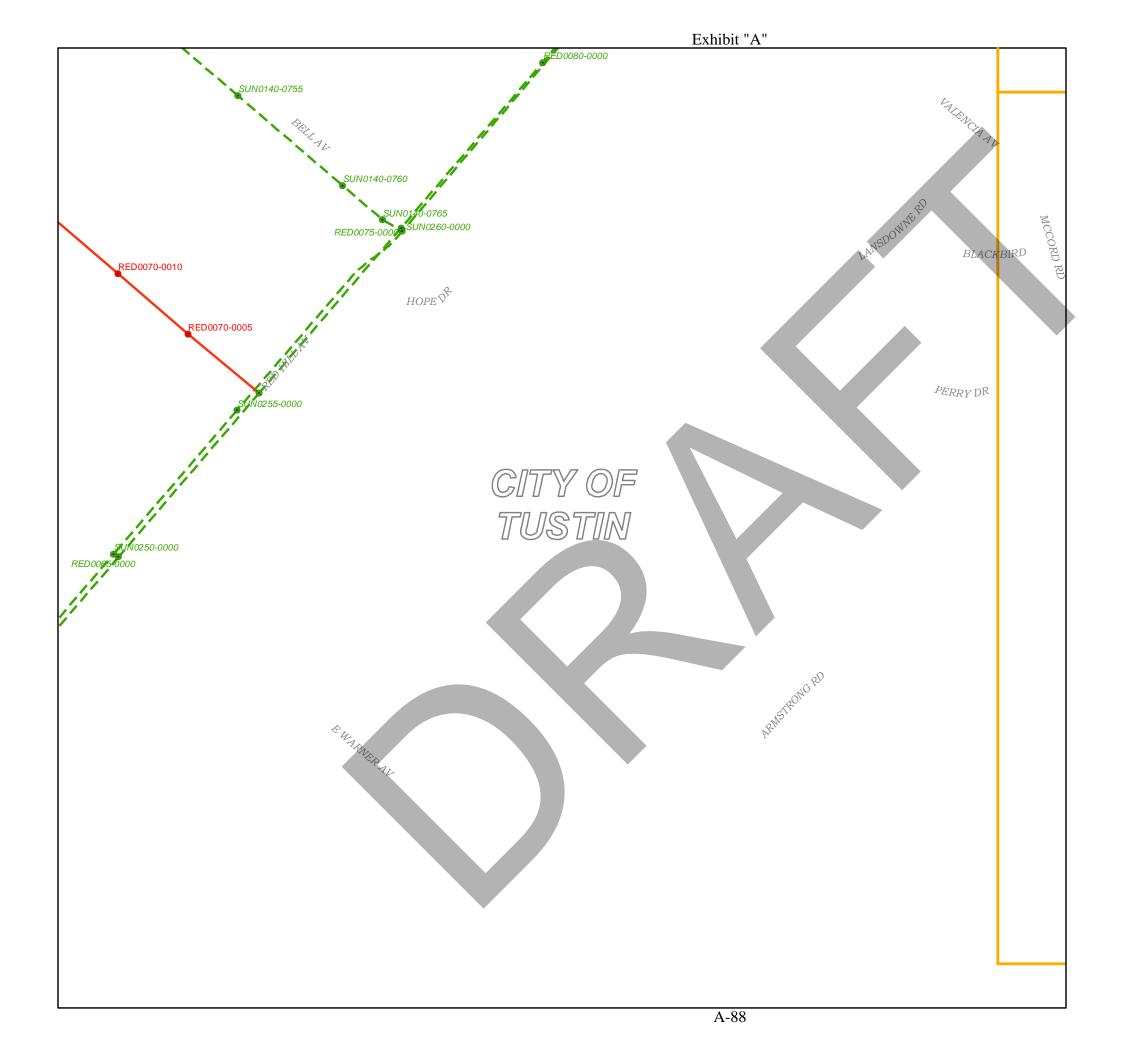


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 4343

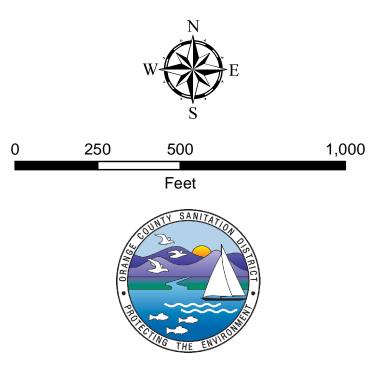


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary

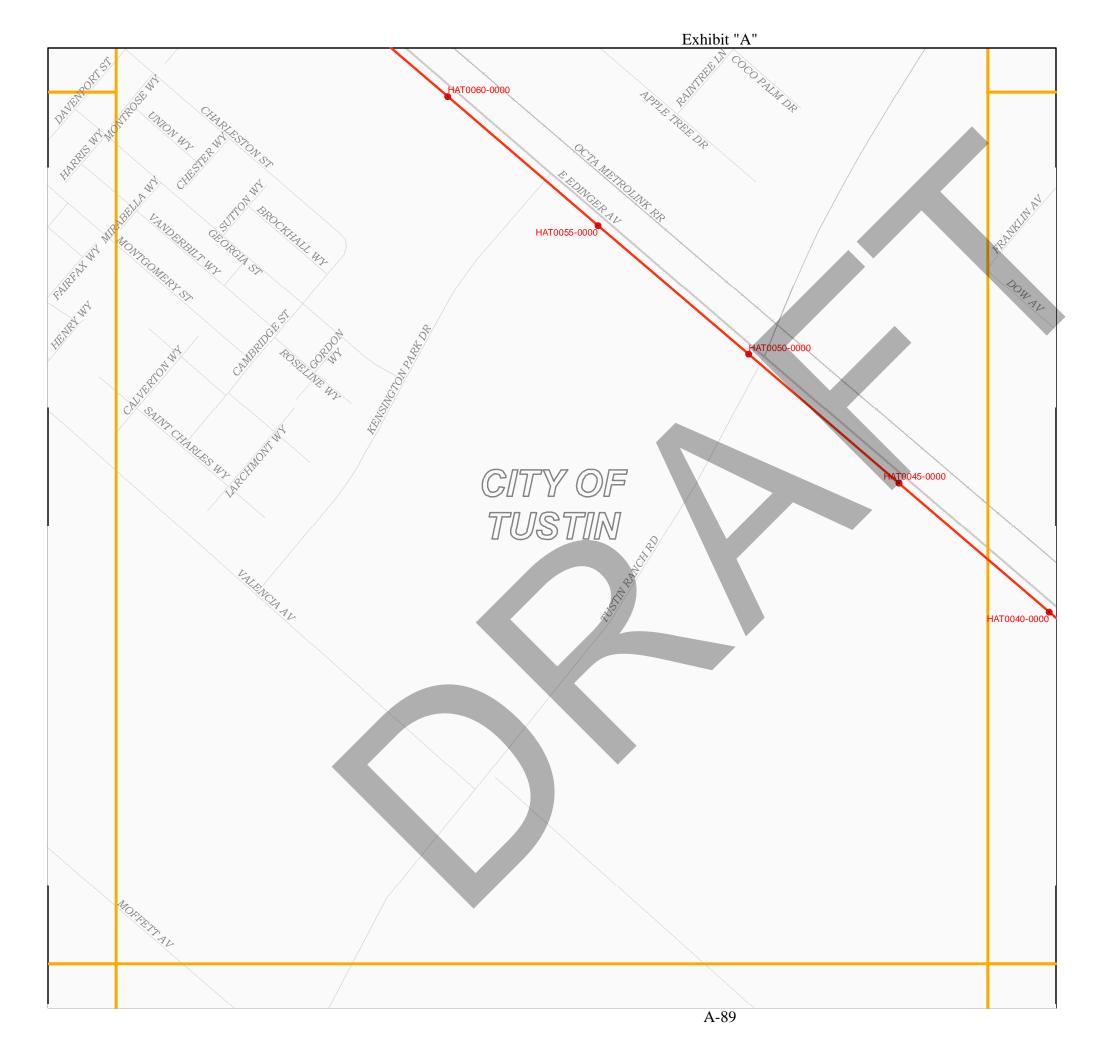


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 4344

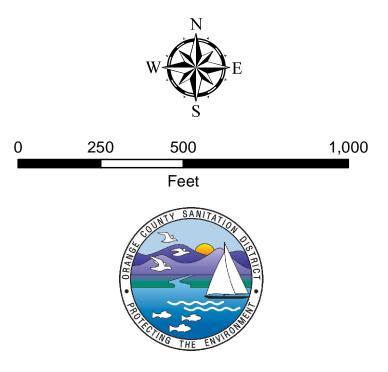


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer

Local Sewers Proposed forTransfer

Regional Sewers Retained By OCSD

City of Tustin Boundary

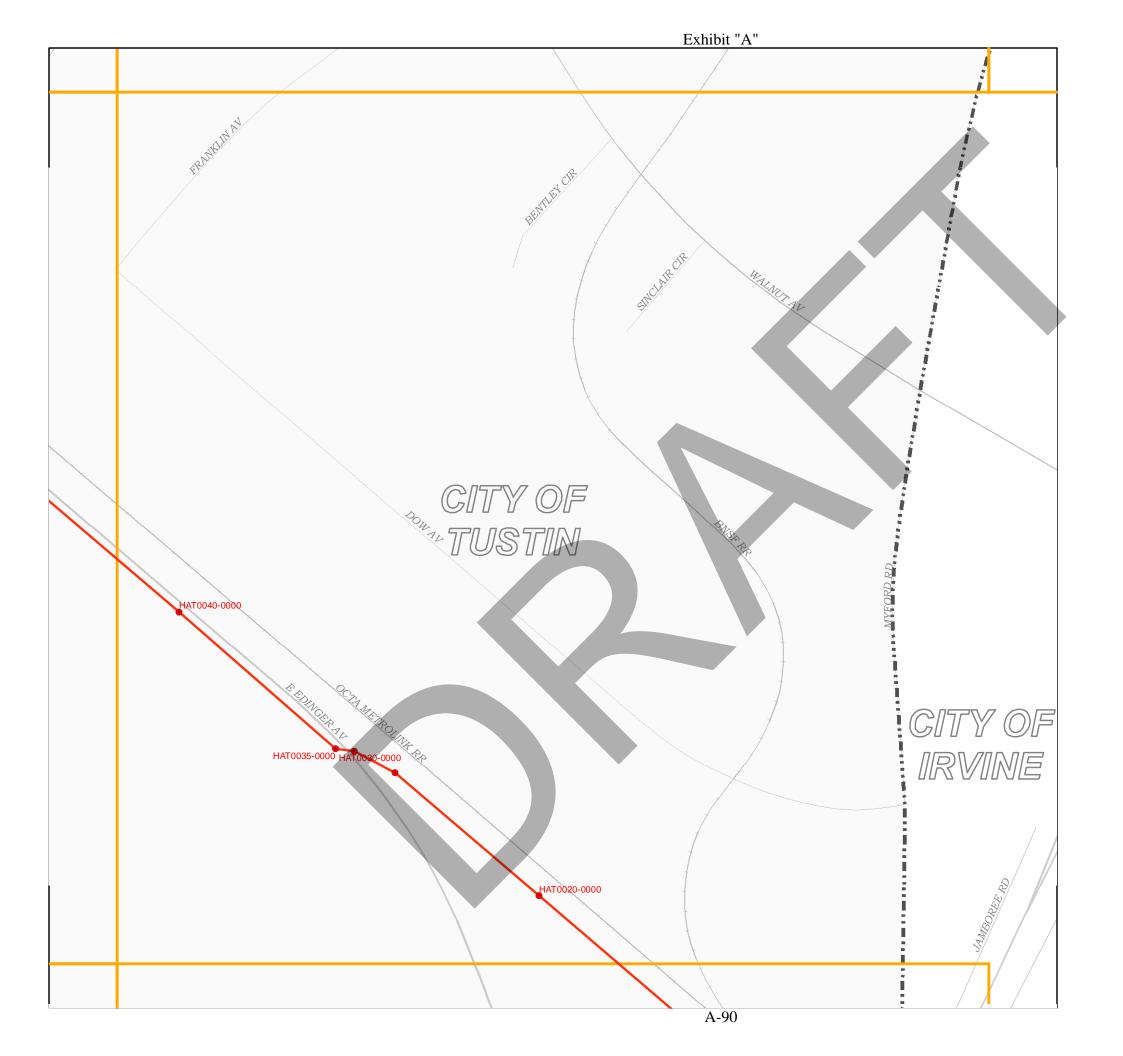


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 4346

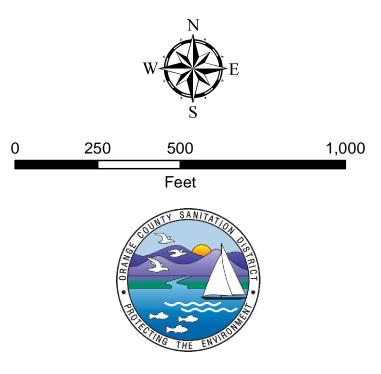


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary

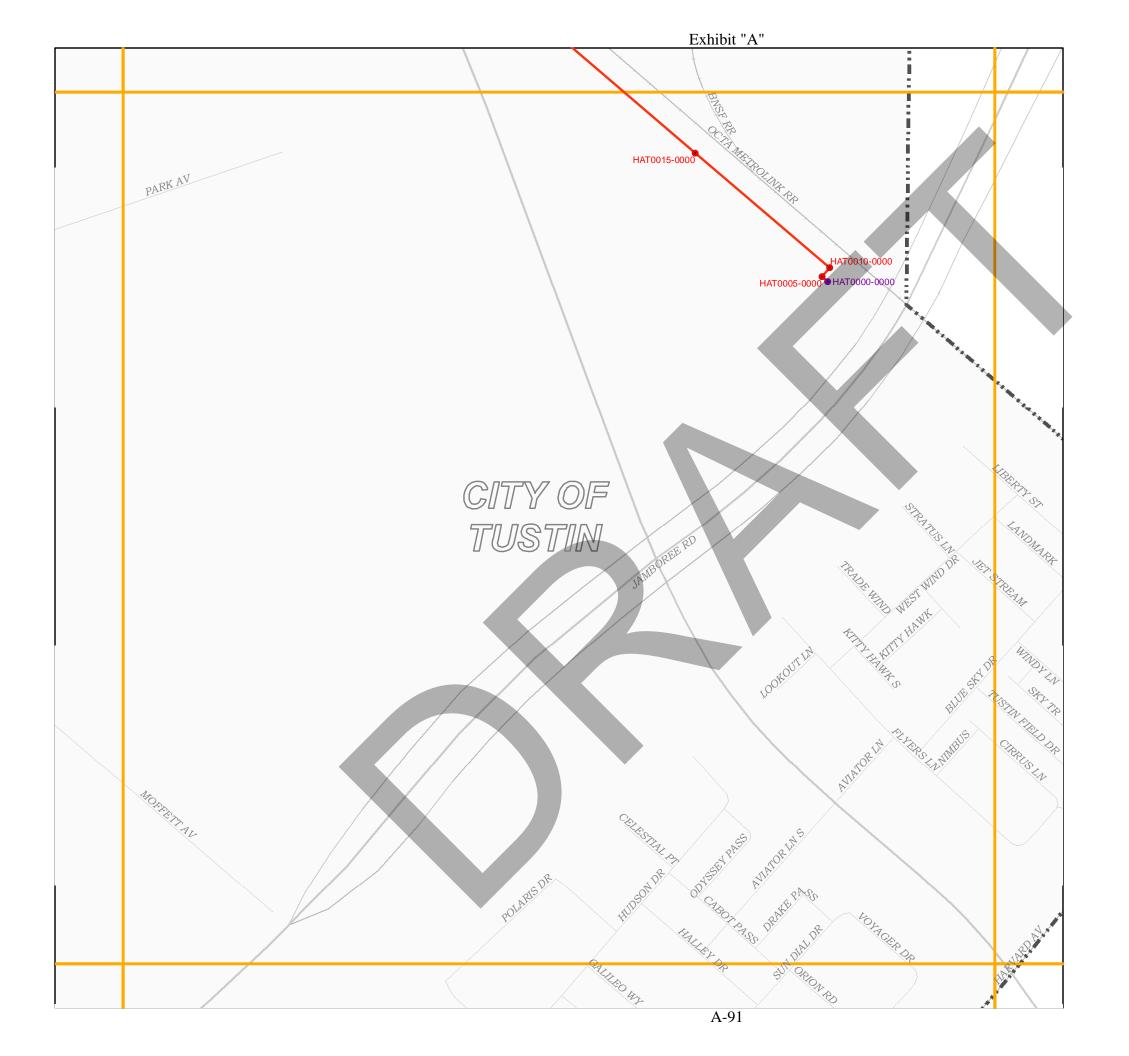


OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 4347

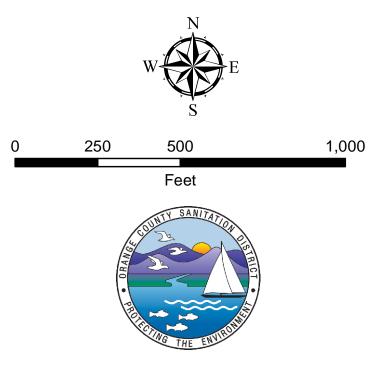


- Manholes Retained by Others
- Regional Manholes Retained by OCSD
- Local Manholes Proposed forTransfer



Regional Sewers Retained By OCSD

City of Tustin Boundary



OCSD Geographic Information Systems

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Source Data: OCSD GIS Data, Thomas Brothers 2012

OCSD Page Number: 4447

Exhibit "A"

ATTACHMENT "2"



Exhibit "A" ATTACHMENT 2 LIST OF SEWERS ASSETS

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
17TH ST										
SUN0480-0420	120+54.08	7-3B	SUN0480-0425	121+74.00	TR-7723	VCP	8	120	0.72%	3648
SUN0480-0415	117+49.98	TR-14799	SUN0480-0420	120+54.08	7-3B	VCP	8	304	0.72%	3647 / 3648
SUN0480-0410	115+08.00	7-3B	SUN0480-0415	117+49.98	TR-14799	VCP	8	242	0.72%	3647
SUN0480-0405	113+95.81	7-3B	SUN0480-0410	115+08.00	7-3B	VCP	8	112	0.72%	3647
SUN0480-0400	112+35.96	7-3B	SUN0480-0405	113+95.81	7-3B	VCP	8	160	0.72%	3647
* SUN0480-0020	116+43.07	7-39	SUN0480-0400	112+35.96	7-3B	VCP	8	6	13.00%	3647
SUN0465-0140	9+93.50	AD-2	SUN0465-0145	1+50.00	AD-2	VCP	8	150	0.80%	3647
SUN0465-0110	1+26.00	AD-2	SUN0465-0115	2+40.00	AD-2	VCP	8	114	0.68%	3647
SUN0465-0090	10+00.00	AD-2	SUN0465-0110	1+26.00	AD-2	VCP	8	126	0.68%	3647
SUN0465-0100	10+47.00	AD-5A	SUN0465-0105	13+40.00	AD-2	VCP	8	293	0.39%	3747
SUN0465-0095	5+44.00	AD-2	SUN0465-0100	10+47.00	AD-5A	VÇP	8	503	0.40%	3647 / 3747
SUN0465-0090	10+00.00	AD-2	SUN0465-0095	5+44.00	AD-2	VCP	8	544	0.40%	3647
SUN0415-0470	3+50.00	AD-2	SUN0415-0475	7+00.00	AD-2	VCP	8	350	0.80%	3646 / 3647
SUN0415-0465	0+23.00	AD-2	SUN0415-0470	3+50.00	AD-2	VCP	8	327	0.80%	3646
SUN0415-0080	87+59.00	AD-2	SUN0415-0465	0+23.00	AD-2	VCP	8	53	2.52%	3646
SUN0415-0080	87+59.00	AD-2	SUN0415-0460	2+50.00	AD-5A	VCP	8	250	0.40%	3646
SUN0415-0095	92+14.69	7-3B	SUN0415-0100	95+43.95	7-3B	VCP	8	329	1.80%	3646 / 3647
SUN0415-0090	88+93.00	7-3B	SUN0415-0095	92+14.69	7-3B	VCP	8	322	1.80%	3646
SUN0415-0085	88+13.42	7-3B	SUN0415-0090	88+93.00	7-3B	VCP	8	107	1.80%	3646
RED0400-0020	14+83.26	7-4B	RED0400-0025	2+40.00	AD3B	VCP	8	240	0.40%	3646
RED0400-0015	9+84.71	7-4B	RED0400-0020	14+83.26	7-4B	VCP	8	492	1.00%	3646
RED0400-0010	5+00.00	7-4B	RED0400-0015	9+84.71	7-4B	VCP	8	492	1.00%	3646
RED0400-0005	5+60.08	7-4B	RED0400-0010	5+00.00	7-4B	VCP	8	492	1.00%	3646
* RED0400-0000	113+14.62	7-41	RED0400-0005	5+60.08	7-4B	VCP	10	33	32.60%	3646
RED0390-0745	3+50.00	AD-2	RED0390-0750	7+06.00	AD-2	VCP	8	356	0.42%	3645
* RED0390-0020	133+96.98	7-4-1	RED0390-0745	3+50.00	AD-2	VCP	8	350	0.43%	3645
RED0390-0735	6+34.44	7-13	RED0390-0740	6+89.44	S-530	VCP	8	55	0.32%	3645
RED0390-0027	3+02.00	S-530	RED0390-0735	6+34.44	7-13	VCP	8	332	0.32%	3645
* RED0390-0025	0+06.00	7-4B	RED0390-0027	3+02.00	S-530	VCP	8	296	0.32%	3645
1ST ST										
SUN0400-0115	0+00.00	RS-620	SUN0400-0117	UNK	TSI-7	STL	0	0	0.00%	3846
SUN0400-0110	15+19.50	S-540A	SUN0400-0115	0+00.00	RS-620	VCP	8	255	0.40%	3846
SUN0400-0105	17+96.00	S-540B	SUN0400-0110	15+19.50	S-540A	VCP	8	282	0.32%	3846
SUN0400-0100	20+70.00	S-540B	SUN0400-0105	17+96.00	S-540B	VCP	8	274	0.40%	3846
SUN0400-0095	22+10.00	S-540B	SUN0400-0100	20+70.00	S-540B	VCP	8	140	0.40%	3846
SUN0400-0015	22+87.00	S-540B	SUN0400-0095	22+10.00	S-540B	VCP	8	71	0.40%	3846
SUN0315-0840	8+20.00	SSI-C	SUN0315-0845	11+60.00	SSI-C	VCP	8	340	10.00%	3846
SUN0315-0835	4+94.00	SSI-C	SUN0315-0840	8+20.00	SSI-C	VCP	8	326	1.00%	3946 / 3846
SUN0315-0830	2+92.00	SSI-C	SUN0315-0835	4+94.00	SSI-C	VCP	8	202	12.00%	3947 / 3946
SUN0315-0825	0+97.00	SSI-C	SUN0315-0830	2+92.00	SSI-C	VCP	8	195	12.00%	3947
SUN0315-0820	11+48.00	SSI-C	SUN0315-0825	0+97.00	SSI-C	VCP	8	251	0.40%	3947
SUN0315-0815	8+08.00	RS-196	SUN0315-0820	11+48.00	SSI-C	VCP	8	352	0.40%	3947

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DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0315-0810	4+68.00	TR-4520	SUN0315-0815	8+08.00	RS-196	VCP	8	340	0.40%	3947
SUN0315-0805	2+00.00	RS-196	SUN0315-0810	4+68.00	TR-4520	VCP	8	268	0.33%	3947
SUN0315-0803	11+07.23	7-36	SUN0315-0805	2+00.00	RS-196	VCP	8	154	0.42%	3947
SUN0315-0080	57+57.36	7-36	SUN0315-0803	11+07.23	7-36	VCP	8	102	7.20%	3947
RED0275-0030	8+92.00	RS-222	RED0275-0035	10+18.01	RS-222	VCP	8	126	0.32%	3846
RED0275-0025	6+30.00	RS-548	RED0275-0030	8+92.00	RS-222	VCP	8	261	0.32%	3846
RED0275-0020	5+92.00	RS-222	RED0275-0025	6+30.00	RS-548	VCP	8	38	0.32%	3846
RED0275-0015	3+49.00	1-1	RED0275-0020	5+92.00	RS-222	VCP	8	243	0.32%	3845 / 3846
RED0275-0010	3+00.00	1-1	RED0275-0015	3+49.00	1-1	VCP	8	49	2.16%	3845
RED0275-0005	10+59.68	7-41	RED0275-0010	3+00.00	1-1	VCP	8	262	0.32%	3845
* RED0275-0000	55+83.78	7-41	RED0275-0005	10+59.68	7-41	VCP	8	47	3.48%	3845
RED0215-0330	12+91.30	S-118	RED0215-0385	2+22.00	S-124	VCP	8	210	1.92%	3845
RED0215-0235	12+67.00	S-112	RED0215-0240	15+02.00	S-112	VCP	8	235	0.40%	3844
RED0215-0230	10+67.58	S-112	RED0215-0235	12+67.00	S-112	VCP	8	199	0.40%	3844
RED0215-0225	8+68.16	S-112	RED0215-0230	10+67.58	S-112	VCP	8	199	0.40%	3844
RED0215-0220	5+79.52	S-112	RED0215-0225	8+68.16	S-112	VCP	8	289	0.40%	3845 / 3844
RED0215-0215	3+66.65	S-112	RED0215-0220	5+79.52	S-112	VCP	8	213	0.40%	3845
RED0215-0075	1+53.77	S-112	RED0215-0215	3+66.65	S-112	VCP	8	213	0.40%	3845
RED0215-0070	12+91.10	S-111	RED0215-0075	1+53.77	S-112	VCP	10	149	0.40%	3845
ND ST										
RED0267-0025	1+97.30	RS-149	RED0267-0030	0+04.00	S-132	VCP	8	197	0.32%	3846
RED0267-0020	0+00.00	RS-149	RED0267-0025	1+97.30	RS-149	VCP	8	189	0.32%	3846
RED0255-0015	7+61.60	S-122	RED0255-0020	1+69.50	S-123	VCP	8	170	0.40%	3945
RED0250-0040	7+22.18	S-121	RED0250-0080	1+25.50	S-123	VCP	8	126	0.40%	3945
RED0250-0040	7+22.18	S-121	RED0250-0075	1+01.00	S-123	VCP	8	101	0.40%	3945
RED0250-0060	0+46.82	X-44	RED0250-0065	1+77.08	X-44	VCP	10	126	0.20%	3945
RED0250-0040	7+22.18	S-121	RED0250-0060	0+46.82	X-44	VCP	10	50	0.20%	3945
RED0215-0450	7+70.42	S-105	RED0215-0460	1+69.40	S-106	VCP	8	174	0.40%	3944
RED0215-0060	7+34.00	S-111	RED0215-0285	2+15.00	S-114	VCP	8	215	0.40%	3945
RED0215-0275	3+17.50	S-114	RED0215-0280	6+32.50	S-114	VCP	8	315	0.40%	3945
RED0215-0060	7+34.00	S-111	RED0215-0275	3+17.50	S-114	VCP	8	317	0.40%	3945
RD ST										
RED0267-0005	2+58.13	S-131	RED0267-0010	4+98.64	S-131	VCP	8	237	0.71%	3945 / 3946
* RED0267-0000	0+00.00	S-131	RED0267-0005	2+58.13	S-131	VCP	8	253	0.71%	3945
RED0250-0020	3+87.18	S-121	RED0250-0085	1+31.00	S-123	VCP	8	135	0.40%	3945
RED0215-0475	2+35.00	S-107	RED0215-0480	4+55.00	S-107	VCP	8	220	0.40%	3944
RED0215-0440	3+68.02	S-105	RED0215-0475	2+35.00	S-107	VCP	8	230	0.36%	3944
RED0215-0055	3+68.00	S-111	RED0215-0300	2+18.00	S-113	VCP	8	218	0.40%	3945
RED0215-0290	3+25.00	S-113	RED0215-0295	6+50.00	S-113	VCP	8	321	0.40%	3945
RED0215-0055	3+68.00	S-111	RED0215-0290	3+25.00	S-113	VCP	8	329	0.40%	3945
TH ST										
SUN0380-0005	13+58.00	S-139	SUN0380-0010	12+00.38	S-139	VCP	8	157	0.32%	3946 / 3945
* SUN0380-0000	48+39.00	7-6-6	SUN0380-0005	13+58.00	S-139	VCP	8	42	0.88%	3946

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
* RED0240-0000	32+25.53	7-41	RED0240-0015	3+72.00	S-127	VCP	8	379	0.48%	3945
RED0240-0005	3+17.50	S-126	RED0240-0010	6+28.30	S-126	VCP	8	311	0.40%	3945
* RED0240-0000	32+25.53	7-41	RED0240-0005	3+17.50	S-126	VCP	8	300	0.45%	3945
RED0215-0525	2+38.00	S-129	RED0215-0530	4+71.00	S-129	VCP	8	233	0.56%	3944
RED0215-0405	9+55.35	S-129	RED0215-0525	2+38.00	S-129	VCP	8	233	0.52%	3945 / 3944
RED0215-0400	6+36.90	7-3A-4A	RED0215-0405	9+55.35	S-129	VCP	8	318	0.40%	3945
RED0215-0395	3+18.45	7-3A-4A	RED0215-0400	6+36.90	7-3A-4A	VCP	8	318	0.40%	3945
RED0215-0030	0+25.50	S-109	RED0215-0395	3+18.45	7-3A-4A	VCP	8	293	0.40%	3945
A ST										
RED0215-0085	6+80.00	S-115	RED0215-0090	7+46.79	RS-268	VCP	8	285	0.40%	3845
RED0215-0080	3+41.00	S-115	RED0215-0085	6+80.00	S-115	VCP	8	339	0.50%	3845
RED0215-0075	1+53.77	S-112	RED0215-0080	3+41.00	S-115	VCP	8	340	0.50%	3845
RED0215-0065	10+35.04	S-111	RED0215-0070	12+91.10	S-111	VCP	10	256	0.40%	3845
RED0215-0060	7+34.00	S-111	RED0215-0065	10+35.04	S-111	VCP	10	301	0.40%	3945 / 3845
RED0215-0055	3+68.00	S-111	RED0215-0060	7+34.00	S-111	VCP	10	366	0.72%	3945
RED0215-0050	3+59.10	S-110	RED0215-0055	3+68.00	S-111	VCP	10	360	0.40%	3945
ACACIA DR										
RED0360-0145	3+42.34	S-524	RED0360-0170	UNK	TR-4974	VCP	8	140	0.24%	3745
RED0360-0045	3+34.34	S-524	RED0360-0145	3+42.34	S-524	VCP	8	8	0.24%	3745
RED0360-0050	4+91.72	RS-214	RED0360-0140	0+24.79	RS-226	VCP	8	250	0.40%	3745
RED0360-0045	3+34.34	S-524	RED0360-0050	4+91.72	RS-214	VCP	8	157	0.24%	3745
RED0320-0235	3+96.00	RS-394	RED0360-0045	3+34.34	S-524	VCP	8	204	0.24%	3745
RED0320-0065	2+52.00	RS-394	RED0320-0235	3+96.00	RS-394	VCP	8	144	2.88%	3745
RED0320-0065	2+52.00	RS-394	RED0320-0070	7+25.05	RS-396	VCP	8	233	0.32%	3745
RED0320-0060	2+00.00	RS-394	RED0320-0065	2+52.00	RS-394	VCP	8	52	3.24%	3745
RED0320-0055	9+56.88	RS-300	RED0320-0060	2+00.00	RS-394	VCP	8	200	0.40%	3745
RED0320-0050	8+29.88	RS-299	RED0320-0055	9+56.88	RS-300	VCP	8	127	0.40%	3745
RED0320-0045	5+88.63	RS-246	RED0320-0050	8+29.88	RS-299	VCP	8	241	0.40%	3745
RED0320-0040	11+17.88	RS-245	RED0320-0045	5+88.63	RS-246	VCP	8	247	0.80%	3745
RED0320-0035	2+20.38	RS-246	RED0320-0040	11+17.88	RS-245	VCP	8	121	0.40%	3745
RED0320-0030	10+05.15	RS-242	RED0320-0035	2+20.38	RS-246	VCP	8	226	0.32%	3845 / 3745
ADDISON RD										
SUN0315-3135	8+09.54	TR-4855	SUN0315-3170	2+31.00	TR-4855	VCP	8	231	9.44%	3650
SUN0315-3135	8+09.54	TR-4855	SUN0315-3140	0+57.62	TR-4855	VCP	8	58	0.40%	3650
SUN0315-3105	0+46.14	TR-4855	SUN0315-3110	2+40.48	TR-4855	VCP	8	194	3.32%	3550 / 3650
SUN0315-2790	9+83.27	TR-4855	SUN0315-3105	0+46.14	TR-4855	VCP	8	46	0.40%	3550
AFTON LN						_	-			
SUN0315-2055	2+70.00	AD-5A	SUN0315-2060	5+34.00	AD-5A	VCP	8	264	0.40%	3748
SUN0315-1895	337+18.90	7-3	SUN0315-2055	2+70.00	AD-5A	VCP	8	270	0.40%	3748
SUN0315-2045	337+18.98	7-22	SUN0315-1895	337+18.90	7-3	VCP	8	20	11.55%	3748
ALEXANDER LN										
RED0625-0445	2+45.00	SSI-F	RED0625-0450	4+53.40	SSI-F	VCP	8	208	11.90%	3348
ALITA LN				-	-	-	-			

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
HAT0255-0060	3+44.86	AD-4	HAT0255-0265	2+45.00	AD-4	VCP	8	245	1.00%	3948
ALLEGHENY DR										
SUN0500-0115	9+77.30	AD-3B	SUN0500-0120	2+61.40	AD-3B	VCP	8	261	3.00%	3547
RED0435-0240	9+04.93	AD3B	RED0435-0245	2+75.00	AD3B	PVC	8	275	0.40%	3546
RED0435-0200	2+60.00	AD3B	RED0435-0205	5+50.00	AD3B	VCP	8	290	3.20%	3546
RED0435-0195	4+07.75	AD3B	RED0435-0200	2+60.00	AD3B	VCP	8	260	0.40%	3546
RED0435-0120	4+26.19	AD3B	RED0435-0145	8+26.19	AD3B	VCP	8	400	0.40%	3546
RED0435-0060	7+46.53	AD3B	RED0435-0090	3+25.00	AD3B	VCP	8	325	0.60%	3546 / 3547
RED0420-0370	8+70.60	AD-3A	RED0420-0380	1+17.00	AD-3A	VCP	8	117	0.40%	3545
RED0420-0370	8+70.60	AD-3A	RED0420-0375	2+00.00	AD-3A	VCP	8	200	0.60%	3545
RED0395-0110	8+70.58	AD-3A	RED0395-0145	3+46.00	AD-3A	VCP	8	346	0.80%	3545
ALLEMAN PL										
SUN0455-0075	2+28.50	AD-2	SUN0455-0080	3+23.50	AD-2	VCP	8	95	0.40%	3747
SUN0455-0070	5+58.93	AD-2	SUN0455-0075	2+28.50	AD-2	VCP	8	229	0.40%	3747
SUN0455-0060	4+39.96	AD-2	SUN0455-0070	5+58.93	AD-2	VCP	8	119	0.40%	3747
SUN0455-0060	4+39.96	AD-2	SUN0455-0065	2+30.00	7-4B	VCP	8	235	1.60%	3747
ALLIANCE AV										
RED0120-0625	6+34.68	RS-248	RED0120-0630	9+50.00	RS-248	VCP	8	316	0.24%	4044
RED0120-0620	3+00.00	RS-248	RED0120-0625	6+34.68	RS-248	VCP	8	335	0.24%	4043 / 4044
* RED0120-0405	83+59.53	7-5-2	RED0120-0620	3+00.00	RS-248	VCP	8	312	1.00%	4043
ALLTHORN DR										
RED0400-0090	2+33.94	TR-4511	RED0400-0095	4+71.59	TR-4511	VCP	8	238	0.76%	3646
RED0400-0085	2+52.52	TR-4511	RED0400-0090	2+33.94	TR-4511	VCP	8	238	0.76%	3646
ALMSIDE DR										
RED0145-0185	2+16.00	RS-543	RED0145-0200	1+09.40	RS-545	VCP	8	109	0.40%	4045
RED0145-0185	2+16.00	RS-543	RED0145-0190	1+09.40	RS-545	VCP	8	109	0.40%	4045
ALRAY PL										
SUN0315-1820	3+66.37	AD-5A	SUN0315-1825	5+51.37	AD-5A	VCP	8	185	0.84%	3748
ALTA PANORAMA										
SUN0480-1220	20+53.00	AD-1	SUN0480-1225	23+55.00	AD-1	VCP	8	302	7.80%	3348
SUN0480-1215	17+04.00	AD-1	SUN0480-1220	20+53.00	AD-1	VCP	8	349	7.84%	3448 / 3348
SUN0480-1210	13+06.00	AD-1	SUN0480-1215	17+04.00	AD-1	VCP	8	398	10.16%	3448
RED0625-0405	1+18.00	AD-1	RED0625-0410	2+88.50	AD-1	VCP	8	171	5.24%	3348
RED0625-0375	8+07.80	AD-1	RED0625-0405	1+18.00	AD-1	VCP	8	118	13.88%	3348
ALTADENA DR										
RED0115-0215	0+00.00	S-480	RED0115-0255	3+32.00	RS-296	VCP	8	332	0.32%	4044
RED0115-0210	1+29.00	RS-295	RED0115-0215	0+00.00	S-480	VCP	8	124	0.48%	4044
RED0115-0205	2+74.00	RS-295	RED0115-0210	1+29.00	RS-295	VCP	8	144	0.32%	4044
AMAGANSET WY										
RED0320-0250	8+68.50	RS-327	RED0320-0260	11+00.50	RS-327	VCP	8	232	0.88%	3845
RED0320-0250	8+68.50	RS-327	RED0320-0255	4+88.50	RS-327	VCP	8	380	0.40%	3845
RED0320-0200	7+29.00	RS-242	RED0320-0230	1+20.00	RS-243	VCP	8	125	0.32%	3845
RED0320-0205	4+53.00	RS-242	RED0320-0225	1+20.00	RS-243	VCP	8	125	0.32%	3845

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
RED0320-0210	1+75.00	RS-242	RED0320-0220	1+20.00	RS-243	VCP	8	125	0.32%	3844
RED0320-0210	1+75.00	RS-242	RED0320-0215	0+92.00	RS-242	VCP	8	83	3.92%	3844
RED0320-0205	4+53.00	RS-242	RED0320-0210	1+75.00	RS-242	VCP	8	278	0.32%	3845 / 3844
RED0320-0200	7+29.00	RS-242	RED0320-0205	4+53.00	RS-242	VCP	8	276	0.32%	3845
RED0320-0030	10+05.15	RS-242	RED0320-0200	7+29.00	RS-242	VCP	8	276	0.32%	3845
RED0320-0025	0+04.00	RS-327	RED0320-0030	10+05.15	RS-242	VCP	8	159	0.40%	3845
RED0320-0020	3+33.48	RS-327	RED0320-0025	0+04.00	RS-327	VCP	8	326	0.40%	3845
RED0215-0140	20+54.25	TR-5725	RED0215-0165	2+20.00	TR-5725	VCP	8	195	0.48%	3844
AMBERVALE LN										
SUN0430-0750	2+60.04	TR-9326	SUN0430-0755	0+08.00	TR-9326	VCP	8	252	0.40%	3450
SUN0430-0745	3+85.00	TR-9326	SUN0430-0750	2+60.04	TR-9326	VCP	8	125	14.41%	3451 / 3450
SUN0430-0455	7+74.00	TR-9326	SUN0430-0745	3+85.00	TR-9326	VÇP	8	75	0.40%	3451
AMBERWICK LN										
RED0330-0005	2+04.00	TR-6450	RED0330-0030	3+10.00	TR-6450	VCP	8	310	0.40%	3745
AMBERWOOD DR										
SUN0315-3370	5+23.00	AD-5A	SUN0315-3375	6+98.00	AD-5A	VCP	8	175	0.24%	3749
SUN0315-3365	3+70.00	AD-5A	SUN0315-3370	5+23.00	AD-5A	VCP	8	153	0.24%	3749
SUN0315-3360	1+90.00	AD-5A	SUN0315-3365	3+70.00	AD-5A	VCP	8	180	0.24%	3749
AMHERST RD										
HAT0090-0115	2+61.00	RS-466	HAT0090-0130	3+90.00	RS-466	VCP	8	390	0.64%	4146
HAT0090-0120	2+45.00	RS-466	HAT0090-0125	4+86.53	RS-466	VCP	8	242	0.40%	4146
HAT0090-0115	2+61.00	RS-466	HAT0090-0120	2+45.00	RS-466	VCP	8	245	2.12%	4146
ANDREWS ST										
SUN0315-0745	3+11.00	TR-4661	SUN0315-0750	0+13.00	TR-4661	VCP	8	153	0.28%	3946
SUN0315-0740	0+13.00	S-134	SUN0315-0745	3+11.00	TR-4661	VCP	8	290	0.30%	3946
SUN0315-0600	5+31.28	TR-4334	SUN0315-0602	7+11.28	TR-4334	VCP	8	180	0.40%	3946
SUN0315-0595	2+56.28	TR-4334	SUN0315-0600	5+31.28	TR-4334	VCP	8	275	0.40%	3946
SUN0315-0590	1+71.50	TR-4334	SUN0315-0595	2+56.28	TR-4334	VCP	8	256	0.40%	3946
HAT0190-0030	5+05.57	RS-386	HAT0190-0035	2+97.12	RS-386	VCP	8	297	0.32%	4047
ANGLIN DR										
RED0390-0715	4+67.04	RS-1004	RED0390-0730	1+57.37	RS-1005	VCP	8	153	0.40%	3644 / 3645
ANGLIN LN										
RED0420-0440	3+20.00	TR-7846	RED0420-0445	6+30.00	TR-7846	VCP	8	330	0.40%	3645
RED0420-0160	0+50.00	TR-7846	RED0420-0440	3+20.00	TR-7846	VCP	8	300	0.40%	3646 / 3645
APPIAN WY		,								
SUN0315-2380	4+11.18	TR-3634	SUN0315-2385	6+06.04	TR-3634	VCP	8	195	2.50%	3649
SUN0315-2375	1+31.18	TR-3634	SUN0315-2380	4+11.18	TR-3634	VCP	8	280	0.50%	3649
SUN0315-2320	2+61.19	TR-3596	SUN0315-2375	1+31.18	TR-3634	VCP	8	272	0.50%	3649
APSLEY RD										
SUN0315-2845	10+73.35	TR-4855	SUN0315-2850	1+33.48	TR-5009	VCP	8	133	4.08%	3550
SUN0315-2720	2+19.76	TR-6507	SUN0315-2730	3+02.77	TR-6507	VCP	8	83	15.00%	3550
SUN0315-2715	3+38.86	TR-6507	SUN0315-2720	2+19.76	TR-6507	VCP	8	220	7.37%	3550
ARBOLADA WY										

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
* RED0375-0000	100+93.24	7-41	RED0375-0005	4+75.00	AD-2	VCP	8	465	0.40%	3745
RED0365-0030	4+74.23	AD-2	RED0365-0075	2+20.00	AD-2	VCP	8	220	3.00%	3746
RED0365-0065	2+72.50	AD-2	RED0365-0070	7+25.00	AD-2	VCP	8	453	0.32%	3746 / 3745
RED0365-0030	4+74.23	AD-2	RED0365-0065	2+72.50	AD-2	VCP	8	273	0.32%	3746
RLOURA WY										
SUN0315-0980	7+69.65	TR-4521	SUN0315-0985	2+30.00	TR-4521	VCP	8	230	1.80%	3847
RROYO AV										
SUN0315-3970	376+60.18	7-22	SUN0315-3975	381+70.41	7-22	VCP	15	529	2.14%	3649
SUN0315-3965	371+85.37	7-22	SUN0315-3970	376+60.18	7-22	VCP	15	455	2.78%	3649
SUN0315-3960	367+31.19	7-22	SUN0315-3965	371+85.37	7-22	VCP	18	454	1.24%	3649
SUN0315-3955	358+72.90	7-22	SUN0315-3960	367+31.19	7-22	VCP	18	858	1.24%	3748 / 3649
SUN0315-3950	356+30.73	7-22	SUN0315-3955	358+72.90	7-22	VÇP	18	242	1.24%	3748
SUN0315-3945	353+45.87	7-22	SUN0315-3950	356+30.73	7-22	VCP	18	285	1.08%	3748
SUN0315-3940	49+25.00	7-22	SUN0315-3945	353+45.87	7-22	VCP	18	421	1.08%	3748
SUN0315-3935	345+52.54	7-22	SUN0315-3940	49+25.00	7-22	VCP	18	389	1.09%	3748
SUN0315-2570	8+81.00	7-3A-4A	SUN0315-3895	2+01.00	AD-5A	VCP	8	201	0.48%	3649
SUN0315-2705	7+81.70	TR-6507	SUN0315-2710	9+81.78	TR-6507	VCP	8	200	6.24%	3550
SUN0315-2625	5+79.00	TR-6362	SUN0315-2705	7+81.70	TR-6507	VCP	8	220	10.00%	3550
SUN0315-2620	2+88.40	TR-6362	SUN0315-2625	5+79.00	TR-6362	VCP	8	273	11.80%	3550
SUN0315-2615	1+29.37	TR-6362	SUN0315-2620	2+88.40	TR-6362	VCP	8	159	9.42%	3550
SUN0315-2610	12+15.00	TR-3732	SUN0315-2615	1+29.37	TR-6362	VCP	8	127	10.60%	3550
SUN0315-2605	9+12.00	TR-3732	SUN0315-2610	12+15.00	TR-3732	VCP	8	303	9.01%	3550
SUN0315-2600	6+12.00	TR-3732	SUN0315-2605	9+12.00	TR-3732	VCP	8	300	5.70%	3549 / 3550
SUN0315-2595	0+00.00	TR-4855	SUN0315-2600	6+12.00	TR-3732	VCP	8	180	4.70%	3549
SUN0315-2590	3+12.00	TR-3731	SUN0315-2595	0+00.00	TR-4855	VCP	8	120	4.70%	3549
SUN0315-2585	13+34.65	7-3A-4A	SUN0315-2590	3+12.00	TR-3731	VCP	8	300	3.75%	3549
SUN0315-2580	10+81.00	7-3A-4A	SUN0315-2585	13+34.65	7-3A-4A	VCP	8	254	6.13%	3649 / 3549
SUN0315-2570	8+81.00	7-3A-4A	SUN0315-2580	10+81.00	7-3A-4A	VCP	8	200	5.48%	3649
SUN0315-2565	5+42.00	7-3A-4A	SUN0315-2570	8+81.00	7-3A-4A	VCP	8	339	5.48%	3649
SUN0315-2560	4+32.00	7-3A-4A	SUN0315-2565	5+42.00	7-3A-4A	VCP	8	110	4.22%	3649
SUN0315-2555	0+06.00	7-3A-4A	SUN0315-2560	4+32.00	7-3A-4A	VCP	8	426	4.22%	3649
SUN0315-1995	384+55.00	7-22	SUN0315-2555	0+06.00	7-3A-4A	VCP	8	62	2.48%	3649
SUN0315-3975	381+70.41	7-22	SUN0315-1995	384+55.00	7-22	VCP	15	285	2.14%	3649
SUN0315-3965	371+85.37	7-22	SUN0315-1965	371+77.00	7-3	VCP	18	13	23.23%	3649
RROYO LINDO DR										
SUN0315-2275	2+40.00	TR-7127	SUN0315-2280	4+70.00	TR-7127	VCP	8	230	0.40%	3649 / 3749
SUN0315-3960	367+31.19	7-22	SUN0315-2275	2+40.00	TR-7127	VCP	8	240	0.40%	3649
RROYO WY										
SUN0315-2195	2+70.88	AD-5A	SUN0315-2200	4+50.88	AD-5A	VCP	8	180	1.31%	3748
SUN0315-3950	356+30.73	7-22	SUN0315-2195	2+70.88	AD-5A	VCP	8	271	0.88%	3748
RTNELL RD										
SUN0480-1270	3+55.00	AD-1	SUN0480-1275	6+44.00	7-6-8	VCP	8	289	8.30%	3448
SUN0480-1265	0+80.00	AD-1	SUN0480-1270	3+55.00	AD-1	VCP	8	275	0.32%	3448

9+44.96	AD-4 RS-542 S-541 AD-4 AD-3B AD-3B AD-4	SUN0480-1265 RED0145-0170 HAT0090-0280 SUN0480-0285 SUN0480-0280 SUN0480-0277 SUN0480-0275	0+80.00 1+60.69 3+85.80 12+05.12 8+13.63 5+50.75	AD-1 RS-542 S-539 AD-3B AD-4	VCP VCP VCP	8 8 8	80 161 337 391	0.63% 0.40% 0.40%	3448 4045 4246
37.06 13.63 50.75 52.90 91.00 30.00 9+44.96	S-541 AD-4 AD-3B AD-3B AD-4	HAT0090-0280 SUN0480-0285 SUN0480-0280 SUN0480-0277	3+85.80 12+05.12 8+13.63 5+50.75	S-539 AD-3B	VCP	8	337	0.40%	
37.06 13.63 50.75 52.90 91.00 30.00 9+44.96	S-541 AD-4 AD-3B AD-3B AD-4	HAT0090-0280 SUN0480-0285 SUN0480-0280 SUN0480-0277	3+85.80 12+05.12 8+13.63 5+50.75	S-539 AD-3B	VCP	8	337	0.40%	
13.63 50.75 52.90 91.00 30.00 9+44.96	AD-4 AD-3B AD-3B AD-4	SUN0480-0285 SUN0480-0280 SUN0480-0277	12+05.12 8+13.63 5+50.75	AD-3B					4246
13.63 50.75 52.90 91.00 30.00 9+44.96	AD-4 AD-3B AD-3B AD-4	SUN0480-0285 SUN0480-0280 SUN0480-0277	12+05.12 8+13.63 5+50.75	AD-3B					4246
50.75 52.90 91.00 30.00 9+44.96	AD-3B AD-3B AD-4 TR-2372	SUN0480-0280 SUN0480-0277	8+13.63 5+50.75		VCP	8	201		
50.75 52.90 91.00 30.00 9+44.96	AD-3B AD-3B AD-4 TR-2372	SUN0480-0280 SUN0480-0277	8+13.63 5+50.75		VCP	8	201		A CONTRACTOR OF THE CONTRACTOR
52.90 91.00 30.00 9+44.96	AD-3B AD-4 TR-2372	SUN0480-0277	5+50.75	AD-4		-	391	0.40%	3647
91.00 30.00 9+44.96	AD-4 TR-2372				VCP	8	265	0.40%	3647
30.00 9+44.96	TR-2372	SUN0480-0275	4.52.00	AD-3B	VCP	8	98	0.40%	3647
9+44.96			4+52.90	AD-3B	VCP	8	453	0.80%	3647
9+44.96									
		RED0620-0045	6+60.00	TR-2372	VCP	8	326	1.28%	3248
17.20	7-4-2	RED0620-0040	3+30.00	TR-2372	VCP	8	320	1.00%	3248
17.20									
17.39	TR-8212	SUN0430-1900	5+87.63	TR-8212	VCP	8	170	8.80%	3448
43.85	TR-8212	SUN0430-1895	4+17.39	TR-8212	VCP	8	168	7.80%	3548 / 3448
45.00	TR-8212	SUN0430-1890	2+43.85	TR-8212	VCP	8	250	10.00%	3548
50.57	1-1	SUN0340-0025	12+31.57	1-1	VCP	8	381	0.30%	4045
85.28	7-28	SUN0340-0020	8+50.57	1-1	VCP	8	365	0.30%	4045
63.00	S-119	RED0215-0355	7+98.00	RS-626	VCP	8	35	0.40%	3845
62.50	S-119	RED0215-0350	7+63.00	S-119	VCP	8	301	0.59%	3845
78.00	S-118	RED0215-0345	4+62.50	S-119	VCP	8	285	0.54%	3845
+93.80	S-118	RED0215-0340	1+78.00	S-118	VCP	8	135	0.40%	3845
+91.30	S-118	RED0215-0335	13+93.80	S-118	VCP	8	103	0.40%	3845
45.56	S-118	RED0215-0330	12+91.30	S-118	VCP	8	346	0.40%	3845
32.04	S-118	RED0215-0325	9+45.56	S-118	VCP	8	314	0.40%	3945 / 3845
18.52					VCP				3945
00.00					VCP				3945
01.50		RED0215-0045			VCP	10	245		3945
58.00									3945
25.50									3945
									3945
									3945
62.58									4045 / 3945
85.28									4045
30.25	, 10	120203 0010	1.02.00	7.5 _				3.3070	10.13
+39.91	X-14	SUN0480-1725	10+93.00	71-A	VCP	8	51	6.81%	3348
15.92									3348
05.44									3348
75.00									3348
. 5.55									3348
80.00									3348
1 0 5 2 0 9 6 8 + 1 0	8.52 0.00 1.50 8.00 5.50 5.58 1.85 2.58 5.28 39.91 5.92 5.44	8.52 S-118 0.00 S-109 1.50 S-109 8.00 S-109 5.50 S-109 5.58 7-3A-4A 1.85 7-3A-4A 2.58 AD-2 5.28 7-28 39.91 X-14 X-16	8.52	8.52 S-118 RED0215-0320 6+32.04 0.00 S-109 RED0215-0315 3+18.52 1.50 S-109 RED0215-0045 0+00.00 8.00 S-109 RED0215-0040 5+01.50 5.50 S-109 RED0215-0035 2+58.00 5.58 7-3A-4A RED0215-0030 0+25.50 1.85 7-3A-4A RED0215-0025 3+05.58 2.58 AD-2 RED0205-0015 4+00.00 5.28 7-28 RED0205-0010 4+62.58 39.91 X-14 SUN0480-1725 10+93.00 5.92 X-14 SUN0480-1720 10+39.91 5.44 TSI-8 SUN0480-1715 8+15.92 5.00 SSI-A SUN0480-1705 3+75.00	8.52 S-118 RED0215-0320 6+32.04 S-118 0.00 S-109 RED0215-0315 3+18.52 S-118 1.50 S-109 RED0215-0045 0+00.00 S-109 8.00 S-109 RED0215-0040 5+01.50 S-109 5.50 S-109 RED0215-0035 2+58.00 S-109 5.58 7-3A-4A RED0215-0030 0+25.50 S-109 1.85 7-3A-4A RED0215-0025 3+05.58 7-3A-4A 2.58 AD-2 RED0205-0015 4+00.00 AD-2 5.28 7-28 RED0205-0010 4+62.58 AD-2 39.91 X-14 SUN0480-1725 10+93.00 71-A 5.92 X-14 SUN0480-1720 10+39.91 X-14 5.00 SSI-A SUN0480-1715 8+15.92 X-14 5.00 SSI-A SUN0480-1705 3+75.00 SSI-A	8.52 S-118 RED0215-0320 6+32.04 S-118 VCP 0.00 S-109 RED0215-0315 3+18.52 S-118 VCP 1.50 S-109 RED0215-0045 0+00.00 S-109 VCP 8.00 S-109 RED0215-0040 5+01.50 S-109 VCP 5.50 S-109 RED0215-0035 2+58.00 S-109 VCP 5.58 7-3A-4A RED0215-0030 0+25.50 S-109 VCP 1.85 7-3A-4A RED0215-0025 3+05.58 7-3A-4A VCP 2.58 AD-2 RED0205-0015 4+00.00 AD-2 VCP 5.28 7-28 RED0205-0010 4+62.58 AD-2 VCP 39.91 X-14 SUN0480-1725 10+93.00 71-A VCP 5.92 X-14 SUN0480-1720 10+39.91 X-14 VCP 5.44 TSI-8 SUN0480-1715 8+15.92 X-14 VCP 5.00 SSI-A SUN0480-1705 3+75.00 SSI-A DIP	8.52 S-118 RED0215-0320 6+32.04 S-118 VCP 8 0.00 S-109 RED0215-0315 3+18.52 S-118 VCP 8 1.50 S-109 RED0215-0045 0+00.00 S-109 VCP 10 8.00 S-109 RED0215-0040 5+01.50 S-109 VCP 10 5.50 S-109 RED0215-0035 2+58.00 S-109 VCP 10 5.58 7-3A-4A RED0215-0030 0+25.50 S-109 VCP 10 1.85 7-3A-4A RED0215-0025 3+05.58 7-3A-4A VCP 10 2.58 AD-2 RED0205-0015 4+00.00 AD-2 VCP 8 5.28 7-28 RED0205-0010 4+62.58 AD-2 VCP 8 39.91 X-14 SUN0480-1720 10+39.91 X-14 VCP 8 5.92 X-14 SUN0480-1715 8+15.92 X-14 VCP 8 5.00	8.52 S-118 RED0215-0320 6+32.04 S-118 VCP 8 314 0.00 S-109 RED0215-0315 3+18.52 S-118 VCP 8 311 1.50 S-109 RED0215-0045 0+00.00 S-109 VCP 10 245 8.00 S-109 RED0215-0040 5+01.50 S-109 VCP 10 244 5.50 S-109 RED0215-0035 2+58.00 S-109 VCP 10 244 5.58 7-3A-4A RED0215-0030 0+25.50 S-109 VCP 10 306 1.85 7-3A-4A RED0215-0025 3+05.58 7-3A-4A VCP 10 295 2.58 AD-2 RED0205-0015 4+00.00 AD-2 VCP 8 400 5.28 7-28 RED0205-0010 4+62.58 AD-2 VCP 8 15 39.91 X-14 SUN0480-1725 10+39.91 X-14 VCP 8 51 5.92 X-14 SUN0480-1715 8+15.92 X-14 VCP 8	8.52 S-118 RED0215-0320 6+32.04 S-118 VCP 8 314 0.40% 0.00 S-109 RED0215-0315 3+18.52 S-118 VCP 8 311 0.46% 1.50 S-109 RED0215-0045 0+00.00 S-109 VCP 10 245 0.40% 8.00 S-109 RED0215-0040 5+01.50 S-109 VCP 10 244 0.52% 5.50 S-109 RED0215-0035 2+58.00 S-109 VCP 10 244 0.52% 5.58 7-3A-4A RED0215-0030 0+25.50 S-109 VCP 10 306 0.47% 1.85 7-3A-4A RED0215-0025 3+05.58 7-3A-4A VCP 10 295 0.40% 2.58 AD-2 RED0205-0015 4+00.00 AD-2 VCP 8 400 0.80% 5.28 7-28 RED0205-0010 4+62.58 AD-2 VCP 8 15 5.30% 39.91 X-14 SUN0480-1725 10+93.00 71-A VCP 8 224 13.00% 5.44 TSI-8 SUN0480-1715 8+15.92 X-14 VCP 8 318 10.23% 5.00 SSI-A SUN0480-1710 2+05.44 TSI-8 DIP 8 123 2.16% 0.00 SSI-A SUN0480-1705 3+75.00 SSI-A DIP 8 195 0.40%

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0480-1655	1+50.00	TR-10570	SUN0480-1695	1+05.31	71-A	DIP	8	94	15.47%	3348
SUN0480-1140	3+36.00	AD-1	SUN0480-1145	UNK	AD-1	VCP	8	256	4.31%	3448
SUN0480-1135	4+80.13	AD-1	SUN0480-1140	3+36.00	AD-1	VCP	8	336	10.80%	3448
RED0625-0372	13+03.40	71-A	RED0625-0373	UNK	71-A	VCP	8	127	4.34%	3348
RED0625-0371	6+52.44	AD-1	RED0625-0372	13+03.40	71-A	VCP	8	133	5.32%	3348
BALBOA LN										
RED0120-0700	2+17.20	TR-4854	RED0120-0705	4+14.20	TR-4854	VCP	8	197	0.40%	3944
RED0120-0685	16+59.76	TR-4854	RED0120-0700	2+17.20	TR-4854	VCP	8	217	0.40%	3944
BANBURY CROSS RD										
SUN0315-2210	0+00.00	TR-3527	SUN0315-2215	0+04.00	TR-3527	VCP	8	269	0.57%	3748 / 3648
SUN0315-2095	14+84.99	AD-5A	SUN0315-2130	2+46.00	AD-5A	VCP	8	246	0.76%	3749 / 3748
BARRETT HILL CIR										
SUN0430-1760	7+97.30	TR-4796	SUN0430-1765	10+54.00	TR-4796	VCP	8	257	4.80%	3548
SUN0430-1755	5+20.00	TR-4796	SUN0430-1760	7+97.30	TR-4796	VCP	8	277	1.04%	3548
SUN0430-1750	3+20.00	TR-4796	SUN0430-1755	5+20.00	TR-4796	VCP	8	200	0.32%	3549 / 3548
BARRETT LN										
SUN0430-1655	17+82.22	AD-1	SUN0430-1740	0+39.00	AD-1	VCP	8	39	1.60%	3549
SUN0430-1690	1+68.00	AD-1	SUN0430-1720	1+30.00	AD-1	VCP	8	130	3.60%	3449
SUN0430-1685	14+49.45	AD-1	SUN0430-1690	1+68.00	AD-1	VCP	8	168	0.60%	3449
SUN0430-1680	11+21.45	AD-1	SUN0430-1685	14+49.45	AD-1	VCP	8	328	0.32%	3449
SUN0430-1675	6+85.36	AD-1	SUN0430-1680	11+21.45	AD-1	VCP	8	436	7.20%	3449
SUN0430-1670	3+25.36	AD-1	SUN0430-1675	6+85.36	AD-1	VCP	8	360	8.40%	3549 / 3449
SUN0430-1665	0+90.36	AD-1	SUN0430-1670	3+25.36	AD-1	VCP	8	235	5.84%	3549
SUN0430-1660	2+52.00	AD-1	SUN0430-1665	0+90.36	AD-1	VCP	8	90	0.88%	3549
SUN0430-1655	17+82.22	AD-1	SUN0430-1660	2+52.00	AD-1	VCP	8	252	0.32%	3549
SUN0430-1650	16+45.73	AD-1	SUN0430-1655	17+82.22	AD-1	VCP	8	136	0.32%	3549
SUN0430-1645	15+18.20	AD-1	SUN0430-1650	16+45.73	AD-1	VCP	8	128	2.20%	3549
SUN0430-1640	13+15.16	AD-1	SUN0430-1645	15+18.20	AD-1	VCP	8	203	8.40%	3548 / 3549
SUN0430-1635	11+16.77	AD-1	SUN0430-1640	13+15.16	AD-1	VCP	8	198	7.75%	3548
SUN0430-1630	10+39.42	7-46	SUN0430-1635	11+16.77	AD-1	VCP	8	77	10.50%	3548
SUN0430-1625	8+84.67	AD-1	SUN0430-1630	10+39.42	7-46	VCP	8	155	4.20%	3548
SUN0430-1620	6+43.67	AD-1	SUN0430-1625	8+84.67	AD-1	VCP	8	241	4.20%	3548
SUN0430-1615	4+45.00	TR-8212	SUN0430-1620	6+43.67	AD-1	VCP	8	223	4.20%	3548
SUN0430-1610	4+00.00	AD-1	SUN0430-1615	4+45.00	TR-8212	VCP	8	26	4.20%	3548
SUN0430-1605	27+54.64	7-3A-4A	SUN0430-1610	4+00.00	AD-1	VCP	8	400	2.60%	3548
RED0625-0245	0+00.00	AD-1	RED0625-0250	7+63.24	AD-1	VCP	8	190	4.52%	3449
RED0625-0240	4+33.00	AD-1	RED0625-0245	0+00.00	AD-1	VCP	8	140	6.00%	3449
RED0625-0225	6+40.00	AD-1	RED0625-0240	4+33.00	AD-1	VCP	8	433	7.60%	3449
RED0625-0220	2+87.46	AD-1	RED0625-0225	6+40.00	AD-1	VCP	8	353	6.00%	3449
RED0625-0215	4+20.00	AD-1	RED0625-0220	2+87.46	AD-1	VCP	8	287	3.52%	3449
RED0625-0055	15+07.63	AD-1	RED0625-0215	4+20.00	AD-1	VCP	8	420	0.78%	3449
BARRY LN									22/0	5
SUN0480-1335	2+21.00	AD-1	SUN0480-1340	5+58.00	AD-1	VCP	8	337	1.40%	3447 / 3448
22.13.100 1333		,,,,,	1-0.10.00 10.10	5 - 55.55		1	•	33,	2.10/0	1 3.17, 3440

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
* SUN0480-0110	3+00.00	7-4C	SUN0480-1335	2+21.00	AD-1	VCP	8	221	2.12%	3447
BEACHMONT AV										
SUN0480-0385	6+55.11	AD-3B	SUN0480-0390	11+32.78	AD-4	VCP	8	478	1.40%	3647
SUN0480-0335	2+50.73	AD-4	SUN0480-0385	6+55.11	AD-3B	VCP	8	404	1.00%	3647
SUN0480-0235	5+63.00	AD-3B	SUN0480-0335	2+50.73	AD-4	VCP	8	251	1.00%	3647
BECKNOLL LN										
HAT0000-0385	1+59.00	TR-6206	HAT0000-0390	2+65.24	TR-9389	VCP	8	268	0.66%	3650
BEESON LN										
SUN0430-2090	4+59.50	AD-2	SUN0430-2095	2+85.00	7-40	VCP	8	285	0.40%	3847 / 3747
BELL AV										
SUN0140-0860	20+26.18	RS-1027	SUN0140-0865	23+00.00	RS-1056	VCP	8	270	0.40%	4243
SUN0140-0855	16+78.28	X-47	SUN0140-0860	20+26.18	RS-1027	VCP	8	349	0.40%	4243
SUN0140-0850	15+32.86	X-47	SUN0140-0855	16+78.28	X-47	VCP	10	146	0.28%	4243
SUN0140-0845	15+05.00	X-47	SUN0140-0850	15+32.86	X-47	VCP	10	26	0.28%	4243
SUN0140-0840	13+25.08	X-47	SUN0140-0845	15+05.00	X-47	VCP	10	180	0.28%	4243
BELLEFORD RD										
HAT0240-0005	2+14.00	TR-6628	HAT0240-0010	5+14.00	TR-6628	VCP	8	300	0.32%	3948
HAT0240-0000	99+51.00	TR-6628	HAT0240-0005	2+14.00	TR-6628	VCP	8	214	0.32%	3948
BENETA WY										
SUN0415-0210	6+86.00	AD-2	SUN0415-0235	1+43.00	AD-2	VCP	8	143	0.40%	3846
SUN0415-0220	5+48.00	AD-2	SUN0415-0225	9+48.00	AD-2	VCP	8	400	0.40%	3846
SUN0415-0215	1+63.00	AD-5A	SUN0415-0220	5+48.00	AD-2	VCP	8	385	0.40%	3846
SUN0415-0210	6+86.00	AD-2	SUN0415-0215	1+63.00	AD-5A	VCP	8	163	1.20%	3846
BENNINGTON DR										
SUN0315-2655	1+59.48	TR-6507	SUN0315-2660	2+25.33	TR-6507	VCP	8	191	1.88%	3550
BENT TREE RD										
HAT0000-0285	1+30.22	7-14-2	HAT0000-0290	6+85.84	7-14-2	VCP	8	556	1.68%	3651
HAT0000-0275	7+21.11	7-14-2	HAT0000-0280	1+00.00	7-14-2	VCP	8	213	2.64%	3651
HAT0000-0270	6+48.58	7-14-2	HAT0000-0275	7+21.11	7-14-2	VCP	8	73	10.00%	3651
HAT0000-0265	4+86.53	7-14-2	HAT0000-0270	6+48.58	7-14-2	VCP	8	163	5.16%	3651
BENT TWIG LN							-			
HAT0230-0015	9+35.78	7-66	HAT0230-0020	11+85.78	7-66	VCP	8	250	0.40%	3948
HAT0230-0010	5+25.00	7-66	HAT0230-0015	9+35.78	7-66	VCP	8	411	0.40%	3948
HAT0230-0005	2+63.00	7-66	HAT0230-0010	5+25.00	7-66	VCP	8	262	0.40%	3948
HAT0230-0000	94+63.33	7-2A	HAT0230-0005	2+63.00	7-66	VCP	8	263	0.78%	3948
BERGEN CIR	21,00.00	, _, .			, 55				0.7 0.7	
RED0215-0135	18+01.75	TR-5725	RED0215-0170	2+25.00	TR-5725	VCP	8	200	0.48%	3844
BERKSHIRE PL	23.02.75	11, 3, 23	32.0			. 5.			51.1070	55.1
HAT0090-0250	0+00.00	RS-474	HAT0090-0255	3+81.83	1-1	VCP	8	382	0.36%	4146 / 4246
BERRINGTON CT	3.33.33			3 3 3 1 3 3		, 5.		332	3.3070	1210 / 1210
SUN0480-0530	12+75.00	TR-14799	SUN0480-0535	15+22.70	TR-10570	VCP	8	248	1.08%	3647
SUN0480-0330	117+49.98	TR-14799	SUN0480-0530	12+75.00	TR-14799	VCP	8	275	1.04%	3647
BEVERLY GLEN DR	117173.30	111 147 33	35110-100 0330	12.75.00	111 17/33	VCI	<u> </u>	275	1.07/0	307/

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0315-3555	3+35.61	AD-5A	SUN0315-3560	7+25.00	AD-5A	VCP	8	389	3.20%	3749
HAT0340-0000	2+75.00	TR-4221	HAT0345-0000	5+37.32	TR-4317	VCP	8	262	5.34%	3849 / 3749
HAT0335-0000	0+34.45	TR-3883	HAT0340-0000	2+75.00	TR-4221	VCP	8	275	4.36%	3849
BIGELOW PK										
RED0355-0035	7+00.00	AD-2	RED0355-0040	8+43.00	AD-2	VCP	8	143	0.32%	3746
RED0355-0030	3+35.57	AD-2	RED0355-0035	7+00.00	AD-2	VCP	8	364	0.32%	3746
RED0355-0025	13+60.00	AD-2	RED0355-0030	3+35.57	AD-2	VCP	8	336	0.32%	3746
RED0355-0020	11+50.00	AD-2	RED0355-0025	13+60.00	AD-2	VCP	8	210	1.02%	3746
RED0355-0015	7+50.00	AD-2	RED0355-0020	11+50.00	AD-2	VCP	8	400	0.40%	3746
RED0355-0010	3+75.00	AD-2	RED0355-0015	7+50.00	AD-2	VÇP	8	375	0.40%	3745 / 3746
RED0355-0005	104+92.84	7-4-1	RED0355-0010	3+75.00	AD-2	VCP	8	375	1.00%	3745
* RED0355-0000	92+48.89	7-41	RED0355-0005	104+92.84	7-4-1	VCP	8	25	13.30%	3745
BIKINI PL										
SUN0480-0770	7+69.00	AD-3B	SUN0480-0780	0+70.00	AD-3B	VCP	8	70	1.00%	3647
SUN0480-0770	7+69.00	AD-3B	SUN0480-0775	2+60.00	AD-3B	VCP	8	260	1.20%	3647
BIMINI DR										
SUN0315-3620	6+11.23	TR-3731	SUN0315-3625	7+82.38	TR-3731	VCP	8	171	7.62%	3549
SUN0315-3615	2+92.40	TR-3731	SUN0315-3620	6+11.23	TR-3731	VCP	8	320	3.91%	3549
SUN0315-3610	9+09.84	TR-3731	SUN0315-3615	2+92.40	TR-3731	VCP	8	279	0.64%	3549
SUN0315-3605	3+35.42	TR-3731	SUN0315-3610	9+09.84	TR-3731	VCP	8	382	3.80%	3549
SUN0315-3600	1+90.20	TR-3731	SUN0315-3605	3+35.42	TR-3731	VCP	8	335	1.84%	3549
BIRCHFIELD DR										
HAT0120-0045	2+91.78	TR-6484	HAT0120-0070	5+70.83	TR-6484	VCP	8	279	0.40%	4146
HAT0120-0040	1+73.73	TR-6484	HAT0120-0045	2+91.78	TR-6484	VCP	8	119	0.40%	4146
HAT0120-0035	1+67.00	TR-6484	HAT0120-0040	1+73.73	TR-6484	VCP	8	174	0.40%	4146
BIRCHWOOD PL										
HAT0090-0075	2+00.00	S-564	HAT0090-0080	4+03.44	S-564	VCP	8	203	0.40%	4245 / 4145
HAT0090-0070	1+28.40	S-564	HAT0090-0075	2+00.00	S-564	VCP	8	200	0.40%	4245
BIRMINGHAM PL										
RED0145-0210	1+11.00	RS-542	RED0145-0245	2+16.00	RS-543	VCP	8	401	0.40%	4045
BLAIR LN										
SUN0315-1525	2+55.00	AD-4	SUN0315-1535	2+22.00	AD-4	VCP	8	220	0.40%	3848
BLISS LN										
RED0115-0200	4+32.00	RS-295	RED0115-0205	2+74.00	RS-295	VCP	8	158	0.32%	4044
BLUE RIDGE DR										
RED0435-0190	3+51.13	AD3B	RED0435-0210	7+40.00	AD3B	VCP	8	389	2.80%	3546
RED0435-0185	1+52.39	AD3B	RED0435-0190	3+51.13	AD3B	VCP	8	199	0.40%	3546
RED0435-0180	5+23.71	AD3B	RED0435-0185	1+52.39	AD3B	VCP	8	152	0.40%	3546
RED0435-0165	4+71.20	AD3B	RED0435-0170	7+66.00	AD3B	VCP	8	295	0.40%	3546
RED0435-0160	3+40.32	AD3B	RED0435-0165	4+71.20	AD3B	VCP	8	131	1.00%	3546
RED0435-0155	1+56.80	AD3B	RED0435-0160	3+40.32	AD3B	VCP	8	184	1.20%	3546
RED0435-0030	15+23.57	AD-3B	RED0435-0155	1+56.80	AD3B	VCP	8	157	1.20%	3546
BLUEBERRY WY										

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0315-1085	3+08.90	TR-5059	SUN0315-1090	3+71.00	TR-5059	VCP	8	380	0.28%	3948
HAT0230-0085	8+59.20	AD-4	HAT0230-0095	3+65.00	AD-4	VCP	8	365	0.80%	3948
HAT0230-0050	8+59.20	AD-4	HAT0230-0060	1+22.00	AD-4	VCP	8	122	0.40%	3948
HAT0230-0050	8+59.20	AD-4	HAT0230-0055	0+90.00	AD-3A	VCP	8	90	0.40%	3948
OCA CANYON DR										
HAT0000-0700	9+47.31	TR-4967	HAT0000-0705	8+31.67	TR-4967	VCP	8	117	6.32%	3551
HAT0000-0695	10+73.15	TR-4967	HAT0000-0700	9+47.31	TR-4967	VCP	8	126	9.27%	3551
HAT0000-0690	11+98.99	TR-4967	HAT0000-0695	10+73.15	TR-4967	VCP	8	126	11.94%	3551
HAT0000-0685	13+24.83	TR-4967	HAT0000-0690	11+98.99	TR-4967	VCP	8	129	15.09%	3551
HAT0000-0680	15+09.59	TR-4967	HAT0000-0685	13+24.83	TR-4967	VCP	8	185	10.28%	3551
HAT0000-0675	0+00.00	TR-4921	HAT0000-0680	15+09.59	TR-4967	VCP	8	350	4.64%	3551
HAT0000-0670	2+74.59	TR-4921	HAT0000-0675	0+00.00	TR-4921	VÇP	8	300	5.12%	3551
HAT0000-0525	0+45.00	TR-4921	HAT0000-0670	2+74.59	TR-4921	VCP	8	277	6.12%	3551
OLEYN CIR										
RED0145-0120	0+-6.00	TR-5008	RED0145-0125	1+78.00	TR-5008	VCP	8	186	0.32%	3944
OND AV										
SUN0635-0065	0+00.00	AD-6	SUN0635-0070	3+45.00	AD-6	VCP	8	343	0.80%	3147
ONITA HEIGHTS DR										
RED0625-0230	8+65.00	AD-1	RED0625-0235	13+40.00	AD-1	VCP	8	475	10.24%	3449
RED0625-0225	6+40.00	AD-1	RED0625-0230	8+65.00	AD-1	VCP	8	225	6.80%	3449
ONNER DR										
RED0395-0225	3+25.00	TR-6082	RED0395-0230	4+61.46	TR-6082	VCP	8	136	2.80%	3645
RED0395-0215	1+56.00	TR-6082	RED0395-0225	3+25.00	TR-6082	VCP	8	325	0.24%	3645
RED0390-0720	7+17.39	RS-1004	RED0390-0725	1+70.37	RS-1005	VCP	8	167	0.40%	3644 / 3645
RED0390-0665	3+14.39	RS-393	RED0390-0670	3+22.32	RS-391	VCP	8	308	0.40%	3645
* RED0390-0050	146+20.00	RS-392	RED0390-0665	3+14.39	RS-393	VCP	8	184	0.40%	3645
OW PL										
RED0435-0250	12+56.58	TR-16554	RED0435-0255	15+73.83	TR-16554	VCP	8	317	1.00%	3546
RED0435-0140	11+65.00	AD3B	RED0435-0250	12+56.58	TR-16554	VCP	8	92	1.00%	3546
RED0435-0135	8+69.70	AD3B	RED0435-0140	11+65.00	AD3B	VCP	8	295	1.00%	3546
RED0435-0130	5+24.70	AD3B	RED0435-0135	8+69.70	AD3B	VCP	8	345	1.00%	3546
RED0435-0125	2+62.88	AD3B	RED0435-0130	5+24.70	AD3B	VCP	8	268	1.00%	3546
RED0435-0120	4+26.19	AD3B	RED0435-0125	2+62.88	AD3B	VCP	8	267	1.60%	3546
RED0435-0115	2+94.43	AD3B	RED0435-0120	4+26.19	AD3B	VCP	8	127	0.40%	3546
RED0435-0110	2+54.56	AD3B	RED0435-0115	2+94.43	AD3B	VCP	8	294	0.40%	3546
RADCLIFF CT										
SUN0430-1425	3+27.58	TR-5646	SUN0430-1430	5+24.83	TR-5646	VCP	8	197	3.36%	3549
RADCLIFF DR										
SUN0430-1405	3+71.74	TR-5646	SUN0430-1425	3+27.58	TR-5646	VCP	8	328	6.48%	3549
SUN0315-3760	5+81.34	TR-6450	SUN0315-3785	2+45.56	TR-6362	VCP	8	246	2.60%	3549
SUN0315-3765	1+60.59	TR-6362	SUN0315-3780	4+20.82	TR-6362	VCP	8	260	3.16%	3549
SUN0315-3760	5+81.34	TR-6450	SUN0315-3765	1+60.59	TR-6362	VCP	8	161	0.40%	3549
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DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0315-3660	7+80.17	TR-3732	SUN0315-3665	2+02.82	TR-3732	VCP	8	200	4.60%	3549
BRAE GN										
RED0625-0360	2+20.25	AD-1	RED0625-0365	2+35.75	AD-1	VCP	8	236	15.69%	3348
RED0625-0040	5+61.65	AD-1	RED0625-0360	2+20.25	AD-1	VCP	8	220	8.40%	3348
BRAEBURN RD										
RED0125-0080	4+55.34	S-561	RED0125-0085	8+15.34	S-561	VCP	8	360	0.40%	4145
RED0125-0075	0+95.34	S-561	RED0125-0080	4+55.34	S-561	VCP	8	360	0.40%	4145
RED0125-0030	2+14.17	S-561	RED0125-0075	0+95.34	S-561	VCP	8	91	0.40%	4245 / 4145
BRANBURY PL										
HAT0090-0190	2+60.00	S-565	HAT0090-0195	3+85.80	S-564	VCP	8	260	0.40%	4145 / 4245
HAT0090-0170	5+21.66	S-565	HAT0090-0190	2+60.00	S-565	VCP	8	262	0.40%	4145
BRENAN WY				•						
SUN0480-0245	11+13.25	AD-3B	SUN0480-0250	14+98.36	AD-3B	VCP	8	385	1.60%	3647
SUN0480-0240	8+38.25	AD-3B	SUN0480-0245	11+13.25	AD-3B	VCP	8	275	1.20%	3647
SUN0480-0235	5+63.00	AD-3B	SUN0480-0240	8+38.25	AD-3B	VCP	8	275	1.00%	3647
SUN0480-0230	2+91.00	AD-4	SUN0480-0235	5+63.00	AD-3B	VCP	8	272	1.00%	3647
* SUN0480-0005	101+71.72	7-39	SUN0480-0230	2+91.00	AD-4	VCP	8	299	1.20%	3647
SUN0465-0135	7+07.02	AD-2	SUN0465-0140	9+93.50	AD-2	VCP	8	286	1.40%	3747 / 3647
SUN0465-0130	3+17.06	AD-5A	SUN0465-0135	7+07.02	AD-2	VCP	8	390	1.40%	3747
SUN0465-0005	10+10.00	7-3B	SUN0465-0130	3+17.06	AD-5A	VCP	8	317	2.28%	3747
SUN0455-0125	4+98.66	AD-2	SUN0455-0130	2+10.00	AD-5A	VCP	8	210	0.84%	3747
BRENT LN	4+36.00	AD-Z	30110433-0130	2+10.00	AD-SA	VCF	0	210	0.8476	3/4/
RED0395-0165	2+00.00	TR-3541	RED0395-0170	0+15.00	TR-3541	VCP	8	185	0.80%	3545
RED0395-0103	4+61.30	TR-3541	RED0395-0165	2+00.00	TR-3541	VCP	8	223	0.80%	3545
BRIARCLIFF PL	4+01.50	TN-3341	KLD0393-0103	2+00.00	117-3341	VCF	0	223	0.80%	3343
HAT0090-0200	1+29.00	RS-556	HAT0090-0205	2+94.24	RS-556	VCP	8	294	0.40%	4245 / 4246
BRIDGEPORT RD	1+29.00	K3-330	11A10090-0203	2+34.24	K3-330	VCF	0	234	0.40%	4243 / 4240
RED0125-0045	6+24.00	S-562	RED0125-0050	9+36.00	S-562	VCP	8	312	0.40%	4145
RED0125-0045	3+12.00	S-562	RED0125-0030	6+24.00	S-562	VCP		312	0.40%	4145
RED0125-0040	5+12.00 5+13.16	S-561	RED0125-0045			VCP	8 8	312	0.40%	4245 / 4145
BRIDLE PATH WY	3+15.10	3-301	RED0123-0040	3+12.00	S-562	VCP	0	312	0.30%	4243 / 4145
HAT0000-0425	5+09.50	TD 6206	HAT0000-0445	1+10.00	TR-6206	VCP	8	110	0.50%	3651
		TR-6206						110		
HAT0000-0435	4+20.00	TR-6206	HAT0000-0440	5+90.00	TR-6206	VCP	8	170	0.50%	3551
HAT0000-0430	2+00.00	TR-6206	HAT0000-0435	4+20.00	TR-6206	VCP	8	220	8.70%	3651 / 3551
HAT0000-0425	5+09.50	TR-6206	HAT0000-0430	2+00.00	TR-6206	VCP	8	200	8.40%	3651
BRIER LN	0,04.00	CCLA	CUN0420 4225	2.44.44	7.40	VCD	0	444	F 700/	2454
SUN0430-1185	0+04.00	SSI-A	SUN0430-1225	3+44.11	7-4B	VCP	8	111	5.70%	3451
SUN0430-1200	6+21.00	SSI-A	SUN0430-1205	1+39.28	SSI-F	VCP	8	34	0.40%	3451
SUN0430-1195	3+81.00	SSI-A	SUN0430-1200	6+21.00	SSI-A	VCP	8	240	1.20%	3451
SUN0430-1190	0+97.00	SSI-A	SUN0430-1195	3+81.00	SSI-A	VCP	8	284	0.50%	3451
SUN0430-1185	0+04.00	SSI-A	SUN0430-1190	0+97.00	SSI-A	VCP	8	93	5.25%	3451
SUN0430-1180	0+84.05	7-4B	SUN0430-1185	0+04.00	SSI-A	VCP	8	149	13.56%	3451
SUN0430-0795	9+31.46	TR-6208	SUN0430-0800	12+44.46	TR-6208	VCP	8	313	11.20%	3450

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0430-0790	5+84.79	TR-10500	SUN0430-0795	9+31.46	TR-6208	VCP	8	347	13.44%	3450
SUN0430-0785	2+44.50	TR-10500	SUN0430-0790	5+84.79	TR-10500	VCP	8	340	15.12%	3450
SUN0430-0780	1+99.79	TR-10500	SUN0430-0785	2+44.50	TR-10500	VCP	8	45	13.44%	3450
SUN0430-0420	14+88.69	TR-1917	SUN0430-0780	1+99.79	TR-10500	VCP	8	100	1.60%	3450
RIGHTON DR										
SUN0315-2885	6+58.39	TR-5794	SUN0315-2890	9+22.13	TR-5794	VCP	8	264	5.92%	3550
SUN0315-2880	3+51.51	TR-5794	SUN0315-2885	6+58.39	TR-5794	VCP	8	307	9.67%	3551 / 3550
SUN0315-2875	15+13.33	TR-5794	SUN0315-2880	3+51.51	TR-5794	VCP	8	352	5.40%	3551
RIGHTWOOD DR										
SUN0430-1315	2+13.59	TR-4990	SUN0430-1320	3+53.59	TR-4990	VCP	8	140	7.52%	3551 / 3451
SUN0430-1310	10+23.76	TR-5225	SUN0430-1315	2+13.59	TR-4990	VCP	8	209	11.92%	3551
SUN0430-1305	7+48.30	TR-5225	SUN0430-1310	10+23.76	TR-5225	VCP	8	280	12.40%	3551
SUN0430-1300	4+90.71	TR-5225	SUN0430-1305	7+48.30	TR-5225	VCP	8	257	12.60%	3551
SUN0430-1295	1+40.71	TR-5225	SUN0430-1300	4+90.71	TR-5225	VCP	8	350	12.80%	3551
SUN0430-1130	4+30.16	TR-5225	SUN0430-1295	1+40.71	TR-5225	VCP	8	141	3.80%	3551
RITTANY CROSS RD										
SUN0315-2085	11+55.33	AD-5A	SUN0315-2090	3+90.00	AD-5A	VCP	8	390	0.68%	3748
BRITTANY WOODS DR										
HAT0255-0035	8+71.00	AD-4	HAT0255-0040	11+90.04	AD-4	VCP	8	319	3.00%	3948
HAT0255-0030	5+55.00	AD-4	HAT0255-0035	8+71.00	AD-4	VCP	8	316	3.00%	3948
HAT0255-0025	3+05.59	AD-4	HAT0255-0030	5+55.00	AD-4	VCP	8	249	0.32%	3948
HAT0255-0020	11+88.50	7-3D	HAT0255-0025	3+05.59	AD-4	VCP	8	306	0.32%	3948
HAT0230-0030	7+12.00	AD-4	HAT0230-0035	10+70.00	AD-3A	VCP	8	358	1.28%	3948
HAT0230-0025	3+52.00	AD-4	HAT0230-0030	7+12.00	AD-4	VCP	8	360	0.40%	3948
HAT0230-0020	11+85.78	7-66	HAT0230-0025	3+52.00	AD-4	VCP	8	352	0.40%	3948
BROADVIEW PL							-			
SUN0430-0760	7+19.45	SSI-D	SUN0430-0765	8+55.67	SSI-D	VCP	8	136	1.50%	3450
BRONCO CIR	5				33. 2					
HAT0000-0460	4+00.00	TR-6206	HAT0000-0465	4+65.00	TR-6206	VCP	8	65	0.44%	3651
HAT0000-0455	2+20.00	TR-6206	HAT0000-0460	4+00.00	TR-6206	VCP	8	180	14.45%	3651
HAT0000-0300	1+16.27	TR-6206	HAT0000-0455	2+20.00	TR-6206	VCP	8	220	8.36%	3651
BROOKLINE WY	1110.27	111 0200	11/1/0000 0 193	2+20.00	111 0200	V C.	J	220	0.3070	3031
RED0320-0015	1+43.09	RS-259	RED0320-0020	3+33.48	RS-327	VCP	8	433	0.40%	3845
ROOKSHIRE AV	1113.03	113 233	11200320 0020	3.33.40	113 327	VCI	J	433	0.4070	3013
HAT0090-0035	4+18.53	RS-551	HAT0090-0040	5+85.85	RS-551	VCP	8	167	0.40%	4245
HAT0090-0030	1+84.00	RS-551	HAT0090-0035	4+18.53	RS-551	VCP	8	235	0.40%	4245
HAT0090-0025	7+76.00	S-564	HAT0090-0030	1+84.00	RS-551	VCP	8	184	3.56%	4245
HAT0090-0020	4+61.00	S-563	HAT0090-0035	7+76.00	S-564	VCP	8	315	0.40%	4245
HAT0090-0015	1+86.00	S-539	HAT0090-0020	4+61.00	S-563	VCP	8	275	0.40%	4245
HAT0080-0125	2+61.00	S-563	HAT0090-0015	1+86.00	S-539	VCP	8	187	0.40%	4246 / 4245
HAT0090-0005	4+31.81	RS-490	HAT0090-0010	2+65.00	RS-490	VCP	8	167	0.40%	4246
HAT0090-0003	2+65.00	RS-490	HAT0080-0010	2+61.00	S-563	VCP	8	265	0.40%	4246
ロマコククスクーククエク	Z 100.00	113-43U	111410000-0173	2,01.00	3-303	l , , , , ,	U	203	U. 4 U/0	1 7270

DOWNSTREAM MH	STATION #	PROJECT # UI	PSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
HAT0335-0000	0+34.45	TR-3883 HA	AT0335-0005	0+47.87	TR-3883	VCP	8	43	4.43%	3849
HAT0330-0000	154+81.02	7-3D H	AT0335-0000	0+34.45	TR-3883	VCP	8	449	4.90%	3849
HAT0325-0000	150+78.02	TR-4855 HA	AT0330-0000	154+81.02	7-3D	VCP	8	403	3.37%	3849
HAT0320-0000	147+89.35	7-3D H <i>A</i>	AT0325-0000	150+78.02	TR-4855	VCP	8	289	2.40%	3849
HAT0315-0000	145+00.69	7-3D HA	AT0320-0000	147+89.35	7-3D	VCP	8	289	2.40%	3849
HAT0310-0000	140+93.79	7-22 HA	AT0315-0000	145+00.69	7-3D	VCP	8	407	0.80%	3849
HAT0305-0000	139+56.00	TR-8084 HA	AT0310-0000	140+93.79	7-22	VCP	8	138	0.84%	3849
HAT0300-0000	136+86.91	7-22 HA	AT0305-0000	139+56.00	TR-8084	VCP	8	269	0.78%	3849
HAT0295-0000	136+35.00	TR-9190 HA	AT0300-0000	136+86.91	7-22	VCP	8	52	5.14%	3849
HAT0290-0000	132+80.03	7-5-1R HA	AT0295-0000	136+35.00	TR-9190	VCP	8	355	3.25%	3849
HAT0285-0000	128+48.28	7-22 HA	AT0290-0000	132+80.03	7-5-1R	VCP	10	432	0.88%	3949 / 3849
HAT0280-0000	124+16.53	7-22 HA	AT0285-0000	128+48.28	7-22	VÇP	10	432	0.88%	3949
HAT0275-0000	119+84.78	7-5-1R HA	AT0280-0000	124+16.53	7-22	VCP	10	432	0.88%	3948 / 3949
HAT0270-0000	118+19.49	7-22 HA	AT0275-0000	119+84.78	7-5-1R	VCP	10	165	0.88%	3948
HAT0265-0000	114+30.18	7-3D H	AT0270-0000	118+19.49	7-22	VCP	8	389	1.10%	3948
HAT0260-0000	110+39.86	7-3D H	AT0265-0000	114+30.18	7-3D	VCP	8	390	1.10%	3948
HAT0255-0000	106+39.54	7-22 H	AT0260-0000	110+39.86	7-3D	VCP	8	400	1.10%	3948
HAT0250-0000	103+12.38	7-5-1R H	AT0255-0000	106+39.54	7-22	VCP	10	327	0.87%	3948
HAT0245-0000	100+30.98	7-22 H	AT0250-0000	103+12.38	7-5-1R	VCP	10	281	0.92%	3948
HAT0240-0000	99+51.00	TR-6628 HA	AT0245-0000	100+30.98	7-22	VCP	10	82	0.92%	3948
HAT0235-0000	97+49.58	7-5-1R H	AT0240-0000	99+51.00	TR-6628	VCP	10	200	0.92%	3948
HAT0230-0000	94+63.33	7-2A H	AT0235-0000	97+49.58	7-5-1R	VCP	10	286	0.92%	3948
HAT0225-0000	91+58.38	7-2A H	AT0230-0000	94+63.33	7-2A	VCP	10	305	0.92%	4048 / 3948
HAT0220-0000	88+06.38	7-2A H	AT0225-0000	91+58.38	7-2A	VCP	10	352	0.64%	4048
HAT0215-0000	85+10.21	7-2A H	AT0220-0000	88+06.38	7-2A	VCP	10	296	0.64%	4048
HAT0210-0000	83+59.81	RS-291 HA	AT0215-0000	85+10.21	7-2A	VCP	10	150	0.64%	4048
HAT0205-0000	79+77.31	7-22 H	AT0210-0000	83+59.81	RS-291	VCP	10	383	0.64%	4048
HAT0200-0000	75+76.49		AT0205-0000	79+77.31	7-22	VCP	12	401	0.22%	4047 / 4048
HAT0195-0000	71+26.49		AT0200-0000	75+76.49	7-22	VCP	12	450	0.22%	4047
HAT0190-0000	66+76.49		AT0195-0000	71+26.49	7-22	VCP	12	450	0.22%	4047
HAT0185-0000	61+81.08		AT0190-0000	66+76.49	7-2A	VCP	12	495	0.22%	4047
HAT0180-0000	57+35.67		AT0185-0000	61+81.08	7-22	VCP	12	445	0.22%	4147 / 4047
HAT0175-0000	55+05.67		AT0180-0000	57+35.67	7-2A	VCP	12	230	0.22%	4147
HAT0165-0000	49+35.19		AT0170-0000	52+80.19	7-22	VCP	12	345	0.30%	4147
HAT0160-0000	6+33.42		AT0165-0000	49+35.19	7-22	VCP	12	359	0.30%	4147
HAT0155-0000	44+85.19		AT0160-0000	6+33.42	TR-5997	VCP	12	87	0.30%	4147
HAT0150-0000	0+00.00		AT0155-0000	44+85.19	7-2A	VCP	12	176	0.44%	4147
HAT0145-0000	40+46.19		AT0150-0000	0+00.00	TR-5997	VCP	12	262	0.44%	4147
HAT0145-0000	40+46.19		AT0145-0005	26+28.58	RS-1265	VCP	8	11	14.68%	4147
HAT0140-0000	36+15.77		AT0145-0000	40+46.19	7-2A	VCP	18	430	0.62%	4146 / 4147
HAT0135-0000	35+22.77		AT0140-0000	36+15.77	7-22	VCP	18	94	0.52%	4146
HAT0130-0000	32+39.77		AT0135-0000	35+22.77	TR-6633	VCP	18	283	0.52%	4146
HAT0135-0000	31+65.77		AT0130-0000	32+39.77	TR-6633	VCP	18	73	0.52%	4146
11/11/12/2-0000	J110J.//	/-Z/\ 11 <i>f</i>	110130-0000	32133.77	111-0033	1 001	10	, 5	0.52/0	I 4140

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT#	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
HAT0120-0000	27+15.77	7-2A	HAT0125-0000	31+65.77	7-2A	VCP	18	450	0.52%	4146
BRUNSWICK WY										
SUN0315-3840	2+25.78	TR-5068	SUN0315-3845	3+88.78	TR-5068	VCP	8	163	2.84%	3549
SUN0315-3835	6+52.05	TR-5068	SUN0315-3840	2+25.78	TR-5068	VCP	8	226	2.00%	3549
SUN0315-3720	5+32.10	TR-3731	SUN0315-3725	8+11.97	TR-3731	VCP	8	280	2.19%	3549
SUN0315-3715	2+72.10	TR-3731	SUN0315-3720	5+32.10	TR-3731	VCP	8	260	2.50%	3549
SUN0315-3710	1+84.13	TR-3731	SUN0315-3715	2+72.10	TR-3731	VCP	8	259	1.75%	3549
BRYAN AV										
SUN0315-0780	10+57.47	7-36	SUN0315-0785	0+00.00	TR-4756	VCP	8	159	0.40%	3947
HAT0205-0035	4+73.67	AD-4	SUN0315-0660	0+86.00	TR-4756	VCP	8	190	1.38%	3947
HAT0205-0030	3+27.67	AD-4	HAT0205-0035	4+73.67	AD-4	VCP	8	146	0.88%	3947
HAT0205-0025	5+33.62	AD-4	HAT0205-0030	3+27.67	AD-4	VÇP	8	328	0.89%	4047 / 3947
HAT0205-0020	14+55.66	RS-229	HAT0205-0025	5+33.62	AD-4	VCP	8	282	0.40%	4047
HAT0205-0015	17+41.87	RS-229	HAT0205-0020	14+55.66	RS-229	VCP	8	286	0.40%	4047
HAT0205-0010	20+12.37	RS-229	HAT0205-0015	17+41.87	RS-229	VCP	8	271	0.40%	4047
HAT0205-0005	23+45.37	RS-229	HAT0205-0010	20+12.37	RS-229	VCP	8	333	0.40%	4047
HAT0205-0003	25+53.37	RS-229	HAT0205-0005	23+45.37	RS-229	VCP	8	208	0.40%	4047
HAT0205-0001	26+03.37	RS-229	HAT0205-0003	25+53.37	RS-229	VCP	8	50	0.40%	4047
HAT0205-0000	79+77.31	7-22	HAT0205-0001	26+03.37	RS-229	VCP	8	42	0.40%	4048 / 4047
BRYCE PL										
RED0420-0125	6+05.00	TR-4005	RED0420-0140	2+51.00	TR-4005	VCP	8	251	0.96%	3646
BUBBLING WELL RD										
HAT0275-0020	9+57.34	AD-3A	HAT0275-0025	13+75.97	AD-4	VCP	8	419	1.15%	3849
HAT0275-0015	5+30.71	AD-3A	HAT0275-0020	9+57.34	AD-3A	VCP	8	427	1.78%	3848 / 3849
HAT0275-0010	2+03.50	AD-4	HAT0275-0015	5+30.71	AD-3A	VCP	8	327	2.68%	3948 / 3848
HAT0275-0005	2+93.11	AD-4	HAT0275-0010	2+03.50	AD-4	VCP	8	204	0.60%	3948
HAT0255-0290	3+00.00	AD-4	HAT0255-0295	5+98.00	AD-3A	VCP	8	298	1.81%	3948
HAT0255-0285	8+01.00	TR-3599	HAT0255-0290	3+00.00	AD-4	VCP	8	300	1.72%	3948
HAT0255-0280	4+44.00	TR-3599	HAT0255-0285	8+01.00	TR-3599	VCP	8	355	0.90%	3948
HAT0255-0275	2+86.00	TR-3599	HAT0255-0280	4+44.00	TR-3599	VCP	8	156	0.60%	3948
HAT0225-0035	3+57.00	AD-4	HAT0225-0040	1+37.00	AD-4	VCP	8	137	0.40%	4048
HAT0225-0005	2+56.00	AD-4	HAT0225-0035	3+57.00	AD-4	VCP	8	357	0.40%	4048
BUCKINGHAM PL										
HAT0090-0240	2+45.00	RS-476	HAT0090-0245	2+57.40	RS-474	VCP	8	245	0.40%	4246 / 4146
HAT0090-0235	4+90.00	RS-476	HAT0090-0240	2+45.00	RS-476	VCP	8	245	0.40%	4246
BULLARD LN										
SUN0315-1400	4+90.00	TR-3951	SUN0315-3885	0+88.00	TR-3951	VCP	8	88	0.40%	3848
SUN0315-1405	2+30.00	TR-3951	SUN0315-3880	0+88.00	TR-3951	VCP	8	88	0.40%	3848
SUN0315-1570	307+23.56	7-3	SUN0315-1575	4+80.00	AD-4	VCP	8	480	0.40%	3848
SUN0315-1410	0+00.00	TR-3951	SUN0315-1415	1+00.24	TR-3951	VCP	8	100	0.40%	3848
SUN0315-1405	2+30.00	TR-3951	SUN0315-1410	0+00.00	TR-3951	VCP	8	230	0.24%	3848
SUN0315-1400	4+90.00	TR-3951	SUN0315-1405	2+30.00	TR-3951	VCP	8	260	0.24%	3848
SUN0315-1395	6+90.11	TR-3951	SUN0315-1400	4+90.00	TR-3951	VCP	8	200	0.24%	3848

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
BURNT MILL RD										
HAT0215-0005	3+56.74	AD-4	HAT0215-0010	5+61.32	AD-4	VCP	8	205	0.40%	4048
HAT0215-0000	85+10.21	7-2A	HAT0215-0005	3+56.74	AD-4	VCP	8	357	0.40%	4048
CST										
RED0250-0065	1+77.08	X-44	RED0250-0070	4+44.87	X-44	VCP	10	264	0.20%	3945 / 3845
RED0240-0020	3+04.00	S-127	RED0240-0025	6+13.30	S-127	VCP	8	309	0.89%	3945
RED0240-0015	3+72.00	S-127	RED0240-0020	3+04.00	S-127	VCP	8	310	0.89%	3945
RED0215-0365	2+95.00	S-119	RED0215-0370	5+87.50	S-119	VCP	8	293	0.48%	3845
RED0215-0360	0+02.50	S-119	RED0215-0365	2+95.00	S-119	VCP	8	293	0.48%	3845
RED0205-0005	0+00.00	AD-2	RED0205-0020	2+90.00	AD-2	VCP	8	290	0.40%	4045
CABARET CT										
SUN0500-0180	4+60.71	TR-9669	SUN0500-0185	7+15.71	TR-9669	VCP	8	251	1.40%	3547
SUN0500-0175	1+60.71	TR-9669	SUN0500-0180	4+60.71	TR-9669	VCP	8	296	1.00%	3547
CALIFORNIA ST										
RED0115-0160	3+28.00	TR-4250	RED0115-0165	6+56.00	TR-4250	VCP	8	328	0.24%	4045
RED0115-0155	5+51.48	TR-4250	RED0115-0160	3+28.00	TR-4250	VCP	8	328	0.24%	4045
CALVO DR										
RED0390-0475	5+52.00	TR-3697	RED0390-0480	0+10.00	TR-3697	VCP	8	166	0.80%	3545
CAMBERA LN										
SUN0315-3685	1+96.00	TR-3731	SUN0315-3690	0+04.00	TR-3731	VCP	8	200	2.60%	3549
SUN0315-3615	2+92.40	TR-3731	SUN0315-3685	1+96.00	TR-3731	VCP	8	194	4.10%	3549
SUN0315-3630	6+71.75	TR-3731	SUN0315-3635	9+79.75	TR-3731	VCP	8	308	3.70%	3549
SUN0315-3615	2+92.40	TR-3731	SUN0315-3630	6+71.75	TR-3731	VCP	8	281	4.20%	3549
CAMDEN DR										
SUN0315-2690	6+06.62	TR-6507	SUN0315-2695	7+20.19	TR-6507	VCP	8	114	10.20%	3550
SUN0315-2650	4+52.15	TR-6507	SUN0315-2690	6+06.62	TR-6507	VCP	8	154	10.50%	3550
SUN0315-2645	1+00.00	TR-6507	SUN0315-2650	4+52.15	TR-6507	VCP	8	352	7.00%	3550
CAMEO DR										
SUN0315-1515	2+58.31	AD-4	SUN0315-1520	5+13.62	AD-4	VCP	8	255	0.40%	3848 / 3847
SUN0315-1510	300+72.17	7-3	SUN0315-1515	2+58.31	AD-4	VCP	8	258	0.40%	3848
SUN0315-1445	5+28.00	AD-4	SUN0315-1490	3+38.37	AD-4	VCP	8	338	0.24%	3848
SUN0315-1370	5+10.00	TR-3951	SUN0315-1475	2+15.33	TR-3951	VCP	8	185	1.24%	3948
SUN0315-1475	2+15.33	TR-3951	SUN0315-1460	5+20.00	TR-3951	VCP	8	215	0.32%	3948 / 3848
SUN0315-1195	7+84.71	AD-4	SUN0315-1240	1+55.00	AD-4	VCP	8	155	2.20%	3847
CAMERON LN										
SUN0465-0035	5+53.31	TR-4325	SUN0465-0055	0+10.00	TR-4325	VCP	8	135	1.20%	3747
SUN0465-0040	6+44.35	TR-4325	SUN0465-0050	1+34.65	TR-4325	VCP	8	131	0.64%	3747
SUN0465-0040	6+44.35	TR-4325	SUN0465-0045	7+56.47	TR-4325	VCP	8	91	2.00%	3747
SUN0465-0035	5+53.31	TR-4325	SUN0465-0040	6+44.35	TR-4325	VCP	8	91	2.00%	3747
SUN0465-0030	3+90.37	TR-4325	SUN0465-0035	5+53.31	TR-4325	VCP	8	166	2.00%	3747
SUN0465-0020	24+59.00	7-3B	SUN0465-0030	3+90.37	TR-4325	VCP	8	395	0.44%	3747
SUN0430-2070	4+56.26	AD2	SUN0430-2075	6+66.46	AD2	VCP	8	210	2.82%	3747
SUN0430-2065	2+01.46	AD2	SUN0430-2070	4+56.26	AD2	VCP	8	255	0.40%	3747
30.10-130 2003	<u> 0 70</u>	,,,,,,	30113130 2070	1.30.20	,,,,,	1 , ,	5	233	J. 10/0	1 3/4/

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
CANDEDA PL										
SUN0415-0195	8+57.00	AD-2	SUN0415-0240	4+16.00	AD-2	VCP	8	416	0.90%	3846
CANTERBURY AV										
HAT0100-0000	15+05.00	7-22	HAT0105-0000	20+05.00	7-2A	VCP	21	500	0.24%	4246
HAT0100-0015	5+20.01	RS-471	HAT0100-0020	7+20.01	RS-471	VCP	8	200	0.40%	4246
HAT0100-0010	1+70.01	RS-471	HAT0100-0015	5+20.01	RS-471	VCP	8	350	0.40%	4246
HAT0100-0005	0+14.96	RS-471	HAT0100-0010	1+70.01	RS-471	VCP	8	155	3.80%	4246
HAT0100-0000	15+05.00	7-22	HAT0100-0005	0+14.96	RS-471	VCP	8	15	4.40%	4246
HAT0095-0000	10+05.00	7-2A	HAT0100-0000	15+05.00	7-22	VCP	21	500	0.24%	4246
HAT0090-0305	8+24.52	RS-489	HAT0090-0310	10+84.52	RS-489	VCP	8	257	0.40%	4246
HAT0090-0300	5+67.52	RS-490	HAT0090-0305	8+24.52	RS-489	VCP	8	258	0.90%	4246
HAT0090-0005	4+31.81	RS-490	HAT0090-0300	5+67.52	RS-490	VCP	8	136	2.94%	4246
CARFAX AV										
RED0185-0010	7+04.00	S-142	RED0185-0015	9+56.00	S-142	VCP	8	252	0.60%	4046
RED0185-0005	3+56.00	S-142	RED0185-0010	7+04.00	S-142	VCP	8	348	0.40%	4045 / 4046
* RED0185-0000	15+44.92	7-4-1	RED0185-0005	3+56.00	S-142	VCP	8	350	0.68%	4045
RED0135-0075	5+64.00	TR-4527	RED0135-0080	6+64.00	TR-4527	VCP	8	100	0.24%	4145
RED0135-0070	2+74.00	TR-4527	RED0135-0075	5+64.00	TR-4527	VCP	8	290	0.24%	4145
RED0135-0020	14+53.80	SSI-F	RED0135-0070	2+74.00	TR-4527	VCP	8	281	0.24%	4145
RED0135-0020	14+53.80	SSI-F	RED0135-0021	14+83.00	RA-1	VCP	8	27	0.48%	4145
CARFAX DR										
RED0135-0125	8+95.32	TR-5028	RED0135-0140	11+20.55	TR-5028	VCP	8	225	0.40%	4145 / 4045
RED0135-0120	6+00.00	TR-5028	RED0135-0125	8+95.32	TR-5028	VCP	8	295	0.40%	4145
RED0135-0115	3+00.00	TR-5028	RED0135-0120	6+00.00	TR-5028	VCP	8	300	0.40%	4145
RED0135-0021	14+83.00	RA-1	RED0135-0115	3+00.00	TR-5028	VCP	8	299	0.40%	4145
CARLANN CIR										
RED0145-0095	2+83.00	TR-5008	RED0145-0120	0+-6.00	TR-5008	VCP	8	289	0.32%	3944
CARLISLE RD										
SUN0315-2235	7+15.00	TR-3696	SUN0315-2240	2+00.00	TR-3696	VCP	8	200	1.47%	3648
CARLSBAD DR										
* RED0420-0000	124+60.22	7-41	RED0420-0160	0+50.00	TR-7846	VCP	8	50	UNK	3646
RED0420-0035	10+75.00	TR-4186	RED0420-0040	13+87.00	TR-4186	VCP	8	312	0.96%	3646
RED0420-0030	7+25.00	TR-4186	RED0420-0035	10+75.00	TR-4186	VCP	8	350	3.04%	3646
RED0420-0025	6+08.00	TR-4186	RED0420-0030	7+25.00	TR-4186	VCP	8	117	1.81%	3646
RED0420-0020	2+50.00	TR-4186	RED0420-0025	6+08.00	TR-4186	VCP	8	358	0.24%	3646
RED0420-0015	5+13.00	TR-4005	RED0420-0020	2+50.00	TR-4186	VCP	8	250	0.24%	3646
RED0420-0010	2+84.00	TR-4005	RED0420-0015	5+13.00	TR-4005	VCP	8	229	0.54%	3646
RED0420-0005	1+34.00	TR-4005	RED0420-0010	2+84.00	TR-4005	VCP	8	150	0.40%	3646
* RED0420-0000	124+60.22	7-41	RED0420-0005	1+34.00	TR-4005	VCP	8	139	0.81%	3646
CARMEL WY										
RED0625-0305	0+00.00	AD-2	RED0625-0335	3+52.50	AD-1	VCP	8	353	0.32%	3449
CARROLL WY										
RED0390-0630	4+26.58	RS-334	RED0390-0635	0+87.58	RS-334	VCP	8	339	0.68%	3645 / 3545

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
RED0390-0625	7+66.58	RS-334	RED0390-0630	4+26.58	RS-334	VCP	8	340	0.68%	3645
RED0390-0600	2+68.80	RS-334	RED0390-0625	7+66.58	RS-334	VCP	8	340	0.68%	3645
CASSELLE AV										
RED0485-0195	4+00.00	AD-3A	RED0485-0200	7+75.00	AD-3A	VCP	8	375	0.80%	3446
RED0485-0125	10+62.50	AD-3A	RED0485-0195	4+00.00	AD-3A	VCP	8	400	0.40%	3446
CASTLEGATE AV										
HAT0090-0015	1+86.00	S-539	HAT0090-0220	2+61.00	S-539	VCP	8	261	0.40%	4245 / 4246
CASTLEGATE LN										
SUN0480-0460	4+73.29	TR-6071	SUN0480-0475	5+73.29	TR-6071	VCP	8	100	4.80%	3648
SUN0480-0455	3+50.00	TR-6071	SUN0480-0460	4+73.29	TR-6071	VCP	8	123	2.00%	3648
SUN0480-0450	8+14.77	TR-6071	SUN0480-0455	3+50.00	TR-6071	VCP	8	350	0.40%	3648
SUN0315-2165	8+89.96	TR-5462	SUN0315-2190	0+90.00	TR-5462	VÇP	8	90	1.00%	3748
SUN0315-2155	5+43.48	TR-5462	SUN0315-2185	0+80.00	TR-5462	VCP	8	80	1.50%	3748
SUN0315-2170	12+38.16	TR-5462	SUN0315-2175	15+62.00	TR-5462	VCP	8	324	1.00%	3648
SUN0315-2165	8+89.96	TR-5462	SUN0315-2170	12+38.16	TR-5462	VCP	8	348	0.40%	3748 / 3648
SUN0315-2160	6+86.39	TR-5462	SUN0315-2165	8+89.96	TR-5462	VCP	8	204	0.40%	3748
SUN0315-2155	5+43.48	TR-5462	SUN0315-2160	6+86.39	TR-5462	VCP	8	143	0.40%	3748
SUN0315-2150	2+65.70	TR-5462	SUN0315-2155	5+43.48	TR-5462	VCP	8	278	0.40%	3748
SUN0315-3945	353+45.87	7-22	SUN0315-2150	2+65.70	TR-5462	VCP	8	266	1.00%	3748
CASTLEROCK LN										
SUN0980-0020	6+09.82	TR-9606	SUN0980-0025	4+25.00	TR-9606	VCP	8	325	12.32%	3351
SUN0980-0015	3+21.88	TR-9606	SUN0980-0020	6+09.82	TR-9606	VCP	8	288	0.40%	3351
CATALINA DR										
SUN0315-1655	3+43.71	AD-4	SUN0315-1705	5+30.21	AD-4	VCP	8	530	1.40%	3848
CAY ST										
SUN0315-1750	19+71.66	TR-7580	SUN0315-1830	1+81.00	TR-7580	VCP	8	181	0.40%	3747
CENTENNIAL WY										
SUN0390-0005	13+96.31	7-3B	SUN0390-0090	4+23.00	S-132	VCP	8	404	0.40%	3946
RED0267-0045	1+90.00	S-132	RED0267-0050	0+89.00	S-132	VCP	8	85	0.40%	3846
CENTER ST										
RED0620-0050	3+24.50	AD-6	RED0620-0055	6+35.00	AD-6	VCP	8	330	1.44%	3248
RED0620-0010	319+19.50	7-4-2	RED0620-0050	3+24.50	AD-6	VCP	8	325	1.44%	3248
RED0605-0025	8+50.00	AD-6	RED0605-0030	12+25.00	AD-6	VCP	8	375	0.84%	3248
RED0605-0020	6+75.61	AD-6	RED0605-0025	8+50.00	AD-6	VCP	8	174	0.48%	3248
RED0605-0015	4+25.00	AD-6	RED0605-0020	6+75.61	AD-6	VCP	8	251	0.48%	3247 / 3248
RED0605-0010	6+34.78	AD-6	RED0605-0015	4+25.00	AD-6	VCP	8	425	0.48%	3247
RED0585-0090	2+50.00	AD-6	RED0585-0095	5+10.00	AD-6	VCP	8	259	1.88%	3247
RED0585-0065	6+27.00	AD-6	RED0585-0090	2+50.00	AD-6	VCP	8	250	1.88%	3247
RED0585-0015	6+98.80	AD-6	RED0585-0040	3+65.00	AD-6	VCP	8	365	2.08%	3247
CHADBOURNE LN	2.30.30			3 . 03.00						5217
SUN0480-0485	2+33.17	TR-6071	SUN0480-0490	4+53.17	TR-6071	VCP	8	220	0.44%	3648
SUN0480-0480	10+81.50	TR-6071	SUN0480-0485	2+33.17	TR-6071	VCP	8	233	0.44%	3648
CHANTILLY CIR	10.01.30	11.0071	33.13 100 0 103	2.33.17	507 1	, 51	<u> </u>		J. 1370	30.10

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0980-0030	1+00.00	TR-9606	SUN0980-0040	2+52.15	TR-9606	VCP	8	152	6.20%	3351
SUN0980-0030	1+00.00	TR-9606	SUN0980-0035	2+45.89	TR-9606	VCP	8	146	0.40%	3351
HAPLET PL										
SUN0315-1445	5+28.00	AD-4	SUN0315-1450	8+18.00	AD-4	VCP	8	290	3.60%	3848
SUN0315-1440	4+03.00	AD-4	SUN0315-1445	5+28.00	AD-4	VCP	8	125	2.80%	3848
SUN0315-1435	2+64.00	AD-4	SUN0315-1440	4+03.00	AD-4	VCP	8	139	0.24%	3848
SUN0315-1430	1+64.39	AD-4	SUN0315-1435	2+64.00	AD-4	VCP	8	264	0.24%	3948 / 3848
SUN0315-1065	0+28.00	AD-4	SUN0315-1070	4+40.00	AD-4	VCP	8	412	0.88%	3947 / 3948
HAPMAN AV										
RED0585-0055	5+42.40	AD-6	RED0585-0105	8+00.00	AD-6	VCP	8	258	0.00%	3347
RED0585-0050	2+65.00	AD-6	RED0585-0055	5+42.40	AD-6	VCP	8	278	0.52%	3347
RED0585-0005	0+56.00	AD-6	RED0585-0050	2+65.00	AD-6	VCP	8	265	3.08%	3347
HARLOMA DR										
SUN0315-1785	1+77.30	AD-5A	SUN0315-1790	5+75.00	AD-5A	VCP	8	275	1.52%	3748
SUN0315-1780	3+70.00	AD-5A	SUN0315-1785	1+77.30	AD-5A	VCP	8	300	1.52%	3748
SUN0315-1605	13+11.10	AD-4	SUN0315-1610	2+22.00	AD-4	VCP	8	222	2.80%	3848
SUN0315-1260	10+77.32	AD-4	SUN0315-1265	13+01.49	AD-4	VCP	8	224	2.00%	3847
SUN0315-1255	8+47.32	AD-4	SUN0315-1260	10+77.32	AD-4	VCP	8	230	2.00%	3847
SUN0315-1250	6+52.50	AD-4	SUN0315-1255	8+47.32	AD-4	VCP	8	195	3.32%	3847
SUN0315-1245	3+24.00	AD-4	SUN0315-1250	6+52.50	AD-4	VCP	8	329	1.20%	3847
SUN0315-1120	11+87.55	7-3E	SUN0315-1245	3+24.00	AD-4	VCP	8	324	1.20%	3847
SUN0315-1210	2+07.54	AD-4	SUN0315-1225	3+57.54	AD-4	VCP	8	150	0.24%	3848
SUN0315-1205	0+00.00	AD-4	SUN0315-1210	2+07.54	AD-4	VCP	8	208	0.24%	3847 / 3848
SUN0315-0965	0+00.00	TR-4521	SUN0315-0970	3+82.81	TR-4521	VCP	8	350	0.16%	3847
SUN0315-0890	2+40.73	TR-4331	SUN0315-0895	5+40.73	TR-4331	VCP	8	300	0.40%	3947 / 3946
SUN0315-0885	6+01.00	TR-4331	SUN0315-0890	2+40.73	TR-4331	VCP	8	241	0.40%	3947
SUN0315-0820	11+48.00	SSI-C	SUN0315-0865	2+66.00	RS-197	VCP	8	266	0.40%	3947
SUN0315-0600	5+31.28	TR-4334	SUN0315-0605	3+52.00	TR-4334	VCP	8	352	0.32%	3946
SUN0315-0470	3+56.04	TR-8760	SUN0315-0475	2+39.49	TR-8760	VCP	8	239	0.40%	3946
RED0180-0050	10+73.86	TR-4251	RED0180-0055	13+39.00	TR-4251	VCP	8	270	0.70%	4046
RED0180-0045	8+23.86	TR-4251	RED0180-0050	10+73.86	TR-4251	VCP	8	250	0.24%	4046
RED0180-0040	5+73.86	TR-4251	RED0180-0045	8+23.86	TR-4251	VCP	8	250	0.24%	4045 / 4046
RED0135-0105	3+30.00	TR-3965	RED0135-0110	6+50.00	TR-3965	VCP	8	320	0.32%	4145
RED0135-0015	11+15.00	SSI-F	RED0135-0105	3+30.00	TR-3965	VCP	8	330	0.32%	4145
HARMAINE LN	11.13.00	3311	1120133 0103	3.30.00	11(3303	V C.I	J	330	0.3270	4113
SUN0480-1425	2+46.76	TR-3444	SUN0480-1440	5+03.12	TR-3444	VCP	8	182	6.58%	3448
SUN0480-1430	1+72.06	TR-3444	SUN0480-1435	0+20.00	TR-3444	VCP	8	198	12.00%	3448
SUN0480-1425	2+46.76	TR-3444	SUN0480-1430	1+72.06	TR-3444	VCP	8	149	2.01%	3448
HARWOOD LN	2170.70	111 3744	30110700 1730	1172.00	111 3774	VCI	<u> </u>	173	2.01/0	3770
SUN0430-2005	2+00.00	AD-5A	SUN0430-2010	5+98.08	AD-5A	VCP	8	398	0.32%	3648 / 3748
SUN0430-2005 SUN0430-0095	21+56.15	TR-3883	SUN0430-2015	2+00.00	AD-5A AD-5A	VCP	8	200	0.36%	3648
HATHAM DR	21730.13	11/-3003	30110430-2003	2+00.00	AD-2A	VCP	O	200	0.30/0	3040
RED0330-0035	6+60.00	TR-6450	RED0330-0040	9+94.29	TR-6450	VCP	8	334	0.40%	3745
RED0330-0030	3+10.00	TR-6450	RED0330-0035	6+60.00	TR-6450	VCP	8	350	0.40%	3745

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
CHERRY HILL DR										
SUN0315-3075	1+83.80	TR-4855	SUN0315-3080	3+02.47	TR-4855	VCP	8	119	0.68%	3550
SUN0315-2805	16+73.21	TR-4855	SUN0315-3075	1+83.80	TR-4855	VCP	8	184	0.40%	3550
SUN0315-3055	11+88.27	TR-5009	SUN0315-3060	13+42.85	TR-5009	VCP	8	155	9.96%	3650
SUN0315-3050	10+58.27	TR-5009	SUN0315-3055	11+88.27	TR-5009	VCP	8	130	14.76%	3650
SUN0315-3045	9+02.18	TR-5009	SUN0315-3050	10+58.27	TR-5009	VCP	8	156	6.84%	3650
SUN0315-3040	6+92.32	TR-5009	SUN0315-3045	9+02.18	TR-5009	VCP	8	210	3.84%	3650
SUN0315-3035	5+42.22	TR-5009	SUN0315-3040	6+92.32	TR-5009	VCP	8	150	0.40%	3650
SUN0315-3030	2+00.21	TR-5009	SUN0315-3035	5+42.22	TR-5009	VCP	8	342	1.52%	3550 / 3650
SUN0315-3025	0+63.00	TR-5009	SUN0315-3030	2+00.21	TR-5009	VCP	8	137	6.92%	3550
SUN0315-2805	16+73.21	TR-4855	SUN0315-3025	0+63.00	TR-5009	VCP	8	63	6.64%	3550
SUN0315-2750	7+16.78	TR-6507	SUN0315-2755	9+48.26	TR-6507	VCP	8	231	0.40%	3550
CHESHIRE PL										
HAT0090-0265	2+45.00	RS-473	HAT0090-0270	0+00.00	RS-473	VCP	8	245	0.50%	4246
HAT0090-0260	4+91.83	RS-473	HAT0090-0265	2+45.00	RS-473	VCP	8	247	0.50%	4246
CHESTERFIELD CIR										
SUN0430-0530	20+68.99	TR-9606	SUN0430-0595	3+65.00	TR-9606	VCP	8	265	1.52%	3351
CHIRPING SPARROW WY										
HAT0230-0085	8+59.20	AD-4	HAT0230-0090	10+59.90	AD-4	VCP	8	201	1.00%	3948
HAT0230-0080	5+67.80	AD-3	HAT0230-0085	8+59.20	AD-4	VCP	8	281	1.00%	3948
HAT0230-0075	2+86.40	AD-4	HAT0230-0080	5+67.80	AD-3	VCP	8	281	0.60%	3948
HAT0230-0010	5+25.00	7-66	HAT0230-0075	2+86.40	AD-4	VCP	8	286	1.56%	3948
HAT0215-0010	5+61.32	AD-4	HAT0215-0015	9+41.32	AD-4	VCP	8	380	0.40%	4048 / 3948
CHURCH ST										
RED0560-0195	3+29.50	AD-6	RED0560-0200	6+16.00	AD-6	VCP	8	285	0.48%	3147
RED0560-0190	0+46.00	AD-6	RED0560-0195	3+29.50	AD-6	VCP	8	284	0.48%	3247 / 3147
RED0560-0185	0+00.00	AD-6	RED0560-0190	0+46.00	AD-6	VCP	15	46	UNK	3247
RED0560-0170	2+29.00	TR-3619	RED0560-0175	4+29.00	TR-3619	VCP	8	200	0.96%	3147
RED0560-0155	2+50.00	TR-3619	RED0560-0170	2+29.00	TR-3619	VCP	8	225	0.96%	3147
CIELO PL							-			
SUN0315-3220	3+40.00	TR-4586	SUN0315-3225	6+71.10	TR-4586	VCP	8	331	4.20%	3649
SUN0315-3215	4+83.00	TR-4586	SUN0315-3220	3+40.00	TR-4586	VCP	8	340	4.80%	3649
SUN0315-3175	0+00.00	AD-5A	SUN0315-3215	4+83.00	TR-4586	VCP	8	477	4.88%	3649
SUN0315-2540	4+69.38	AD-5A	SUN0315-2550	1+98.00	AD-5A	VCP	8	198	2.76%	3649
SUN0315-2540	4+69.38	AD-5A	SUN0315-2545	1+94.40	AD-5A	VCP	8	194	0.40%	3649
CINDY LN		7.2 0.1			7.2 37.				01.070	
SUN0315-0760	1+70.84	TR-4494	SUN0315-0775	5+28.84	TR-4494	VCP	8	358	0.32%	3946
* SUN0315-0710	14+58.08	7-3B	SUN0315-0760	1+70.84	TR-4494	VCP	8	181	0.32%	3946
CINNABAR RD	27.33.00	, 35	70,13313 0,00	2.70.01	1134			101	3.32/0	33.0
HAT0255-0210	7+80.05	AD-5A	HAT0255-0215	9+10.05	AD-5A	VCP	8	130	1.60%	3849
HAT0255-0205	5+92.23	AD-5A	HAT0255-0210	7+80.05	AD-5A	VCP	8	188	6.40%	3849
HAT0255-0200	2+86.23	AD-5A	HAT0255-0210	5+92.23	AD-5A	VCP	8	306	4.20%	3849
CIRCULA PANORAMA	2.00.23	AD JA	11/110233 0203	J 1 J Z . Z J	AD JA	VCI	U .	300	7.20/0	3073

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0480-1645	0+00.00	AD-1	SUN0480-1770	2+10.00	AD-1	VCP	8	211	5.00%	3348
SUN0480-1745	4+65.86	71-A	SUN0480-1750	8+12.88	71-A	VCP	8	347	7.52%	3348
SUN0480-1740	1+64.60	71-A	SUN0480-1745	4+65.86	71-A	VCP	8	301	11.00%	3348
SUN0480-1735	2+75.00	TR-7969	SUN0480-1740	1+64.60	71-A	VCP	8	155	4.65%	3348
SUN0480-1770	2+10.00	AD-1	SUN0480-1735	2+75.00	TR-7969	VCP	8	64	5.00%	3348
SUN0480-1660	3+02.00	AD-1	SUN0480-1665	6+82.00	AD-1	VCP	8	384	9.12%	3348
SUN0480-1655	1+50.00	TR-10570	SUN0480-1660	3+02.00	AD-1	VCP	8	154	9.79%	3348
SUN0480-1650	2+05.70	AD-1	SUN0480-1655	1+50.00	TR-10570	VCP	8	150	36.30%	3348
SUN0480-1645	0+00.00	AD-1	SUN0480-1650	2+05.70	AD-1	VCP	8	206	4.48%	3348
SUN0480-1407	3+90.00	SSI-C	SUN0480-1410	3+77.13	SSI-C	VCP	8	377	0.92%	3448
SUN0480-1405	3+75.00	SSI-C	SUN0480-1407	3+90.00	SSI-C	VCP	8	15	51.66%	3448
SUN0480-1180	10+71.00	AD-1	SUN0480-1210	13+06.00	AD-1	VÇP	8	235	5.04%	3448
SUN0480-1175	6+94.23	AD-1	SUN0480-1180	10+71.00	AD-1	VCP	8	377	7.52%	3448
SUN0480-1170	2+55.00	AD-1	SUN0480-1175	6+94.23	AD-1	VCP	8	439	7.58%	3448
SUN0480-1135	4+80.13	AD-1	SUN0480-1170	2+55.00	AD-1	VCP	8	255	0.60%	3448
SUN0480-1130	2+50.00	AD-1	SUN0480-1135	4+80.13	AD-1	VCP	8	230	10.72%	3448
SUN0480-1125	0+00.00	AD-1	SUN0480-1130	2+50.00	AD-1	VCP	8	250	9.96%	3448
RED0625-0425	21+73.42	SSI-B	RED0625-0430	1+82.00	SSI-B	VCP	8	182	1.42%	3348
RED0625-0420	20+28.90	SSI-B	RED0625-0425	21+73.42	SSI-B	VCP	8	145	6.64%	3348
RED0625-0415	18+93.09	SSI-B	RED0625-0420	20+28.90	SSI-B	VCP	8	135	6.64%	3348
RED0625-0370	4+79.97	AD-1	RED0625-0415	18+93.09	SSI-B	VCP	8	251	5.68%	3348
RED0625-0325	12+16.03	SSI-B	RED0625-0330	15+59.00	SSI-B	VCP	8	343	4.28%	3348
RED0625-0320	10+37.00	SSI-B	RED0625-0325	12+16.03	SSI-B	VCP	8	176	4.72%	3348
RED0625-0315	8+27.79	SSI-B	RED0625-0320	10+37.00	SSI-B	VCP	8	201	0.63%	3448 / 3348
RED0625-0310	8+85.00	AD-1	RED0625-0315	8+27.79	SSI-B	VCP	8	456	1.46%	3448
ROJA										
HAT0295-0000	136+35.00	TR-9190	HAT0295-0005	2+20.00	TR-9190	VCP	8	220	2.00%	3849
ARISSA LN										
SUN0415-0600	5+73.50	7-3B	SUN0415-0610	3+66.23	TR-2075	VCP	8	353	0.24%	3746
SUN0415-0380	5+42.11	TR-4552	SUN0415-0400	1+79.98	TR-4552	VCP	8	175	0.40%	3746 / 3747
SUN0415-0385	2+91.74	TR-4552	SUN0415-0390	1+03.96	TR-4552	VCP	8	188	0.40%	3746
SUN0415-0380	5+42.11	TR-4552	SUN0415-0385	2+91.74	TR-4552	VCP	8	250	0.40%	3746
SUN0415-0375	5+71.00	TR-4061	SUN0415-0380	5+42.11	TR-4552	VCP	8	213	0.40%	3746
SUN0415-0370	3+00.00	TR-4061	SUN0415-0375	5+71.00	TR-4061	VCP	8	271	0.32%	3746
SUN0415-0365	4+93.00	7-3B	SUN0415-0370	3+00.00	TR-4061	VCP	8	300	0.32%	3746
SUN0415-0280	3+60.00	TR-3779	SUN0415-0285	7+20.00	TR-3779	VCP	8	360	1.00%	3746
SUN0415-0275	0+22.50	TR-3779	SUN0415-0280	3+60.00	TR-3779	VCP	8	338	0.44%	3846 / 3746
SUN0415-0270	1+62.00	TR-3779	SUN0415-0275	0+22.50	TR-3779	VCP	8	158	0.20%	3846
OVER										
RED0625-0185	2+95.00	AD-8	RED0625-0200	3+50.48	SSI-B	VCP	8	351	0.32%	3449 / 3349
OVERBROOK DR										,
HAT0120-0135	10+59.66	RS-605	HAT0120-0140	11+74.66	RS-605	VCP	8	115	0.40%	4146
-	7+98.36	RS-604	HAT0120-0135	10+59.66	RS-605	VCP	8	261	0.40%	4146

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
HAT0120-0115	6+65.00	RS-565	HAT0120-0120	7+98.36	RS-604	VCP	8	123	0.40%	4146
HAT0120-0110	3+47.39	RS-565	HAT0120-0115	6+65.00	RS-565	VCP	8	320	0.50%	4146
HAT0120-0010	0+08.00	RS-565	HAT0120-0110	3+47.39	RS-565	VCP	8	337	0.32%	4146
CLOYDEN RD										
SUN0315-3150	3+83.59	TR-4855	SUN0315-3155	5+75.27	TR-4855	VCP	8	192	11.64%	3650
SUN0315-3145	1+95.73	TR-4855	SUN0315-3150	3+83.59	TR-4855	VCP	8	188	12.80%	3650
SUN0315-3140	0+57.62	TR-4855	SUN0315-3145	1+95.73	TR-4855	VCP	8	190	5.80%	3650
COCKSCROW LN										
HAT0255-0065	6+24.90	AD-4	HAT0255-0260	2+88.00	AD-4	VCP	8	288	0.60%	3948
COLBOW ST										
RED0560-0160	4+86.00	TR-3619	RED0560-0165	3+82.14	TR-3619	VCP	8	378	0.68%	3147
COLONY DR										
SUN0315-2110	5+15.96	AD-5A	SUN0315-2145	3+14.00	AD-5A	VCP	8	314	3.16%	3749
SUN0315-2105	17+61.17	AD-5A	SUN0315-2110	5+15.96	AD-5A	VCP	8	122	1.84%	3749
COPPERFIELD DR										
HAT0120-0090	7+05.78	RS-737	HAT0120-0095	5+14.52	RS-737	VCP	8	193	0.32%	4146
HAT0120-0085	5+14.50	RS-539	HAT0120-0090	7+05.78	RS-737	VCP	8	190	0.32%	4146
HAT0120-0060	9+06.67	TR-6484	HAT0120-0065	11+29.67	TR-6484	VCP	8	223	2.93%	4146
HAT0120-0055	6+12.90	TR-6484	HAT0120-0060	9+06.67	TR-6484	VCP	8	294	0.40%	4146
HAT0120-0050	3+12.90	TR-6484	HAT0120-0055	6+12.90	TR-6484	VCP	8	300	0.40%	4146
CORAL REEF RD										
SUN0315-0805	2+00.00	RS-196	SUN0315-0870	2+72.00	RS-199	VCP	8	272	0.40%	3947
SUN0315-0805	2+00.00	RS-196	SUN0315-0850	3+14.00	RS-197	VCP	8	314	0.40%	3947
CORLA AV										
RED0115-0140	3+37.00	TR-4250	RED0115-0145	6+69.00	TR-4250	VCP	8	332	0.40%	4044 / 4045
RED0115-0125	9+71.54	TR-4520	RED0115-0140	3+37.00	TR-4250	VCP	8	333	0.40%	4044
CORONEL RD										
SUN0315-2815	20+17.74	TR-4855	SUN0315-3020	22+98.90	TR-4855	VCP	8	281	2.76%	3550
SUN0315-2810	17+46.59	TR-4855	SUN0315-2815	20+17.74	TR-4855	VCP	8	271	3.64%	3550
SUN0315-2805	16+73.21	TR-4855	SUN0315-2810	17+46.59	TR-4855	VCP	8	73	20.44%	3550
SUN0315-2800	14+06.59	TR-4855	SUN0315-2805	16+73.21	TR-4855	VCP	8	267	9.28%	3550
SUN0315-2795	10+76.30	TR-4855	SUN0315-2800	14+06.59	TR-4855	VCP	8	330	10.40%	3550
SUN0315-2790	9+83.27	TR-4855	SUN0315-2795	10+76.30	TR-4855	VCP	8	93	10.24%	3550
SUN0315-2785	7+63.25	TR-4855	SUN0315-2790	9+83.27	TR-4855	VCP	8	220	11.48%	3550
SUN0315-2780	5+00.00	TR-4855	SUN0315-2785	7+63.25	TR-4855	VCP	8	263	6.64%	3550
SUN0315-2775	2+11.97	TR-4855	SUN0315-2780	5+00.00	TR-4855	VCP	8	302	6.16%	3549 / 3550
SUN0315-2595	0+00.00	TR-4855	SUN0315-2775	2+11.97	TR-4855	VCP	8	212	2.48%	3549
SUN0315-3020	22+98.90	TR-4855	SUN0315-2740	24+59.90	TR-4855	VCP	8	161	45.60%	3550
SUN0315-2735	11+93.01	TR-6507	SUN0315-2740	24+59.90	TR-4855	VCP	8	213	1.14%	3550
SUN0315-2710	9+81.78	TR-6507	SUN0315-2735	11+93.01	TR-6507	VCP	8	211	11.48%	3550
COTTONWOOD DR										
SUN0480-0990	2+31.02	TR-8616	SUN0480-0995	4+14.35	TR-8616	VCP	8	183	4.40%	3548
SUN0480-0965	12+79.43	TR-8616	SUN0480-0990	2+31.02	TR-8616	VCP	8	227	1.28%	3548

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0480-0965	12+79.43	TR-8616	SUN0480-0970	2+82.55	TR-8616	VCP	8	283	0.32%	3548
COUNTRY HAVEN										
SUN0430-0290	5+20.36	TR-4130	SUN0430-0295	9+25.00	TR-4130	VCP	8	405	3.59%	3449
SUN0430-0285	2+41.88	TR-4130	SUN0430-0290	5+20.36	TR-4130	VCP	8	278	0.40%	3449
SUN0430-0280	1+52.00	TR-4130	SUN0430-0285	2+41.88	TR-4130	VCP	8	90	0.40%	3449
SUN0430-0275	16+63.90	TR-4130	SUN0430-0280	1+52.00	TR-4130	VCP	8	146	0.40%	3449
COUNTRY HILLS DR										
SUN0430-1360	2+32.00	TR-5448	SUN0430-1365	2+64.00	TR-5448	VCP	8	228	1.00%	3550
SUN0430-1340	0+00.00	TR-5448	SUN0430-1360	2+32.00	TR-5448	VCP	8	228	4.30%	3550
SUN0430-1350	5+49.07	TR-5448	SUN0430-1355	7+72.50	TR-5448	VCP	8	219	2.12%	3550
SUN0430-1345	3+43.51	TR-5448	SUN0430-1350	5+49.07	TR-5448	VCP	8	206	2.68%	3550
SUN0430-1340	0+00.00	TR-5448	SUN0430-1345	3+43.51	TR-5448	VÇP	8	340	2.68%	3550
SUN0430-1325	2+02.46	TR-5448	SUN0430-1330	3+14.47	TR-5448	VCP	8	114	3.00%	3550
COUNTRY LN										
SUN0315-3580	3+26.39	AD-5A	SUN0315-3585	6+87.73	AD-5A	VCP	8	361	0.80%	3749
SUN0315-3400	4+30.31	7-3C	SUN0315-3580	3+26.39	AD-5A	VCP	8	326	0.88%	3749
SUN0315-1680	4+06.96	AD-4	SUN0315-1685	7+11.96	AD-4	VCP	8	305	1.20%	3848
SUN0315-1675	2+21.30	AD-4	SUN0315-1680	4+06.96	AD-4	VCP	8	186	1.60%	3848
SUN0315-1670	1+54.40	AD-4	SUN0315-1675	2+21.30	AD-4	VCP	8	221	0.60%	3848
COUNTY LN										
SUN0430-0300	2+00.00	TR-4130	SUN0430-0305	4+88.75	TR-4130	VCP	8	289	3.43%	3449
SUN0430-0285	2+41.88	TR-4130	SUN0430-0300	2+00.00	TR-4130	VCP	8	199	3.16%	3449
COVENTRY PL										
SUN0315-3755	4+64.63	TR-6362	SUN0315-3760	5+81.34	TR-6450	VCP	8	117	5.96%	3549
SUN0315-3750	3+30.47	TR-6362	SUN0315-3755	4+64.63	TR-6362	VCP	8	134	13.60%	3549
SUN0315-3745	5+53.12	TR-3731	SUN0315-3750	3+30.47	TR-6362	VCP	8	330	5.22%	3549
SUN0315-3690	0+04.00	TR-3731	SUN0315-3695	2+28.74	TR-3731	VCP	8	225	1.33%	3549
COVEY LN										
HAT0000-0135	2+50.00	TR-9688	HAT0000-0140	3+97.00	TR-9688	VCP	8	146	12.87%	3751
HAT0000-0130	0+00.00	TR-9688	HAT0000-0135	2+50.00	TR-9688	VCP	8	248	4.20%	3751
COWAN HEIGHTS DR										
SUN0430-1045	1+28.00	7-3A-4A	SUN0430-1050	3+40.00	7-3A-4A	VCP	8	212	10.15%	3551 / 3451
SUN0430-1040	7+69.45	TR-3914	SUN0430-1045	1+28.00	7-3A-4A	VCP	8	136	4.20%	3551
SUN0430-1035	5+97.75	TR-3914	SUN0430-1040	7+69.45	TR-3914	VCP	8	172	5.09%	3551
SUN0430-1030	4+36.74	TR-3914	SUN0430-1035	5+97.75	TR-3914	VCP	8	161	13.07%	3551
SUN0430-1025	2+06.71	TR-3914	SUN0430-1030	4+36.74	TR-3914	VCP	8	230	7.84%	3551
SUN0430-1020	0+00.00	TR-3914	SUN0430-1025	2+06.71	TR-3914	VCP	8	207	7.96%	3551
SUN0430-1015	29+41.85	SSI-B	SUN0430-1020	0+00.00	TR-3914	VCP	8	212	7.80%	3551
SUN0430-1010	28+48.35	SSI-B	SUN0430-1015	29+41.85	SSI-B	VCP	8	94	8.00%	3551
SUN0430-1005	27+06.99	SSI-B	SUN0430-1010	28+48.35	SSI-B	VCP	8	141	5.12%	3551
SUN0430-1000	26+18.00	TR-5840	SUN0430-1005	27+06.99	SSI-B	VCP	8	89	5.12%	3551
SUN0430-0995	25+88.28	SSI-B	SUN0430-1000	26+18.00	TR-5840	VCP	8	30	0.40%	3551
SUN0430-0990	24+07.61	SSI-B	SUN0430-0995	25+88.28	SSI-B	VCP	8	181	7.20%	3551

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0430-0985	22+29.42	SSI-B	SUN0430-0990	24+07.61	SSI-B	VCP	8	178	7.86%	3551
SUN0430-0980	18+67.72	SSI-B	SUN0430-0985	22+29.42	SSI-B	VCP	8	362	6.92%	3551
SUN0430-0975	16+50.35	SSI-B	SUN0430-0980	18+67.72	SSI-B	VCP	8	217	5.52%	3551
SUN0430-0970	14+61.61	TR-5225	SUN0430-0975	16+50.35	SSI-B	VCP	8	189	4.64%	3550 / 3551
SUN0430-0965	12+64.89	SSI-B	SUN0430-0970	14+61.61	TR-5225	VCP	10	197	0.52%	3550
SUN0430-0960	8+85.31	TR-5448	SUN0430-0965	12+64.89	SSI-B	VCP	8	380	5.68%	3550
SUN0430-0955	5+07.11	SSI-B	SUN0430-0960	8+85.31	TR-5448	VCP	8	378	3.92%	3550
SUN0430-0950	3+27.84	SSI-B	SUN0430-0955	5+07.11	SSI-B	VCP	8	179	3.76%	3550
SUN0430-0945	1+54.75	SSI-B	SUN0430-0950	3+27.84	SSI-B	VCP	8	173	2.80%	3550
SUN0430-0940	322+38.39	SSI-B	SUN0430-0945	1+54.75	SSI-B	VCP	8	155	6.84%	3550
ANBROOK DR										
RED0435-0065	10+21.53	AD3B	RED0435-0085	3+68.00	AD3B	VCP	8	368	0.60%	3546 / 3547
AWFORD CANYON RD										
SUN0430-0380	6+59.52	SSI-E	SUN0430-0385	1+32.52	7-15	DIP	8	129	2.72%	3449
SUN0430-0270	0+00	TR-10302	SUN0430-0275	16+63.90	TR-4130	VCP	8	22	9.00%	3449
SUN0430-0235	0+04.00	AD-8	SUN0430-0270	0+00	TR-10302	VCP	8	138	0.21%	3449
SUN0430-0230	12+32.20	TR-4130	SUN0430-0235	0+04.00	AD-8	VCP	8	290	0.21%	3449
SUN0430-0225	13+46.58	TR-4130	SUN0430-0230	12+32.20	TR-4130	VCP	8	46	1.56%	3449
SUN0430-0220	9+31.70	TR-4130	SUN0430-0225	13+46.58	TR-4130	VCP	8	201	1.10%	3449
SUN0430-0215	6+85.60	TR-4130	SUN0430-0220	9+31.70	TR-4130	VCP	8	246	7.31%	3449
RED0625-0435	3+29.00	SSI-B	RED0625-0440	7+59.91	SSI-B	VCP	8	431	0.40%	3348
RED0625-0030	26+95.93	7-4-2A	RED0625-0435	3+29.00	SSI-B	VCP	8	325	2.61%	3348
RED0625-0095	15+20.71	AD-8	RED0625-0100	17+61.80	AD-8	VCP	8	241	1.80%	3449
RED0625-0090	14+89.60	AD-8	RED0625-0095	15+20.71	AD-8	VCP	8	31	2.74%	3449
RED0625-0085	0+00.00	AD-8	RED0625-0090	14+89.60	AD-8	VCP	8	197	2.44%	3449
RED0625-0080	12+41.70	AD-1	RED0625-0085	0+00.00	AD-8	VCP	8	51	2.44%	3449
RED0625-0075	10+25.32	AD-1	RED0625-0080	12+41.70	AD-1	VCP	8	216	2.09%	3449
RED0625-0070	0+00.00	AD-8	RED0625-0075	10+25.32	AD-1	VCP	8	161	2.19%	3449
RED0625-0065	6+50.53	AD-2	RED0625-0070	0+00.00	AD-8	VCP	8	206	2.19%	3449
RED0625-0060	0+00.00	AD-8	RED0625-0065	6+50.53	AD-2	VCP	8	360	2.40%	3449
RED0625-0055	15+07.63	AD-1	RED0625-0060	0+00.00	AD-8	VCP	8	290	2.40%	3449
RED0625-0050	0+00.00	TR-6022	RED0625-0055	15+07.63	AD-1	VCP	8	273	1.73%	3349 / 3449
RED0625-0045	10+35.93	AD-1	RED0625-0050	0+00.00	TR-6022	VCP	8	199	0.50%	3349
RED0625-0040	5+61.65	AD-1	RED0625-0045	10+35.93	AD-1	VCP	8	474	1.74%	3348 / 3349
RED0625-0046	4+73.00	AD-1	RED0625-0040	5+61.65	AD-1	VCP	8	89	0.58%	3348
RED0625-0030	26+95.93	7-4-2A	RED0625-0046	4+73.00	AD-1	VCP	8	473	0.46%	3348
ESTHAVEN LN	20133.33	/- 4 -2A	NED0023-0033	4173.00	AD-1	VCI	0	473	0.4070	3340
RED0625-0475	4+25.00	AD-1	RED0625-0480	7+45.00	AD-1	VCP	8	320	0.63%	3348 / 3448
RED0625-0475	4+23.65	AD-1 AD-1	RED0625-0475	4+25.00	AD-1 AD-1	VCP	8	238	7.36%	3348
RED0625-0470 RED0625-0045	10+35.93	AD-1 AD-1	RED0625-0475	3+99.14	AD-1 AD-1	VCP	8	256 399	10.60%	3349 / 3348
ESTLINE DR	10+35.33	AD-I	NEDUUZ3-0333	3733.14	₩D-1	VCF	0	כננ 	10.00%	3343 / 3346
	2,5614	4 D2B	DED0445 0075	E 126 14	V D S D	VCD	0	170	1 600/	2546
RED0445-0070	3+56.14	AD3B	RED0445-0075	5+26.14	AD3B	VCP	8	170	1.60%	3546
RED0445-0020	9+95.80	AD3B	RED0445-0070	3+56.14	AD3B	VCP	8	356	1.00%	3546

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
CROMWELL DR										
HAT0205-0190	9+52.93	RS-285	HAT0205-0200	1+67.94	AD-4	VCP	12	90	1.00%	3947
HAT0205-0185	7+31.95	RS-285	HAT0205-0190	9+52.93	RS-285	VCP	8	221	0.38%	3947
HAT0205-0185	7+31.95	RS-285	HAT0205-0100	5+13.83	RS-285	VCP	8	218	0.32%	3947
HAT0205-0095	2+93.83	RS-285	HAT0205-0100	5+13.83	RS-285	VCP	8	220	0.40%	3947
HAT0205-0090	3+45.10	RS-285	HAT0205-0095	2+93.83	RS-285	VCP	8	298	0.38%	3947
CUMBERLAND CROSS RD										
SUN0315-2080	8+25.33	AD-5A	SUN0315-2125	3+90.00	AD-5A	VCP	8	390	0.92%	3748
CURRIE CIR										
SUN0480-0625	3+81.99	TR-5576	SUN0480-0685	3+44.98	TR-5576	VCP	8	345	2.00%	3648
D ST										
RED0285-0010	4+87.00	S-125	RED0285-0015	2+82.00	S-125	VCP	8	270	0.40%	3845
DALL LN										
SUN0415-0430	8+14.00	AD-5A	SUN0415-0435	11+44.00	AD-2	VCP	8	330	0.84%	3746 / 3646
SUN0415-0425	3+94.00	AD-2	SUN0415-0430	8+14.00	AD-5A	VCP	8	420	1.20%	3746
SUN0415-0420	4+73.50	7-40	SUN0415-0425	3+94.00	AD-2	VCP	8	394	0.40%	3746
SUN0415-0340	7+76.54	AD-5A	SUN0415-0345	2+20.00	AD-2	VCP	8	220	0.40%	3746
RED0400-0055	5+18.00	TR-4186	RED0400-0060	8+43.00	TR-4186	VCP	8	325	1.40%	3646
RED0400-0050	2+18.00	TR-4186	RED0400-0055	5+18.00	TR-4186	VCP	8	300	0.83%	3646
RED0400-0047	8+48	TR-4186	RED0400-0050	2+18.00	TR-4186	VCP	8	102	0.50%	3646
RED0400-0040	7+05.45	AD3B	RED0400-0045	9+65.45	AD3B	VCP	8	260	0.80%	3646
RED0400-0035	4+55.40	AD3B	RED0400-0040	7+05.45	AD3B	VCP	8	250	0.80%	3646
RED0400-0030	1+86.87	AD3B	RED0400-0035	4+55.40	AD3B	VCP	8	269	0.80%	3646
RED0400-0030	14+83.26	7-4B	RED0400-0039	1+86.87	AD3B	VCP	8	187	2.20%	3646
DANBERRY CIR	14+65.20	7-40	NED0400-0030	1+80.87	ADSB	VCF	O	107	2.2076	3040
HAT0090-0180	2+45.83	RS-441	HAT0090-0185	2+46.00	RS-437	VCP	8	232	0.40%	4146
		S-565	HAT0090-0180			VCP		232		
HAT0090-0175 DANBOROUGH RD	6+77.08	3-303	HA10090-0180	2+45.83	RS-441	VCP	8	240	0.40%	4145 / 4146
	6.57.00	DC 490	UAT0000 000F	10.05.00	DC 400	VCD	o	240	0.50%	4246
HAT0080-0080	6+57.00	RS-480	HAT0080-0085	10+05.00	RS-480	VCP	8	348	0.50%	4246
HAT0080-0075	3+00.00	RS-480	HAT0080-0080	6+57.00	RS-480	VCP	8	357	0.50%	4246
HAT0080-0070	11+58.65	S-537	HAT0080-0075	3+00.00	RS-480	VCP	8	300	0.54%	4246
DANIGER RD	44.00.00	TD 7722	CUN0420 0255	LINIIZ	45.0) (CD	0	4.60	42.500/	2440
SUN0430-0250	11+00.00	TR-7723	SUN0430-0265	UNK	AD-8	VCP	8	163	12.58%	3449
SUN0430-0245	7+50.00	AD-8	SUN0430-0250	11+00.00	TR-7723	VCP	8	350	9.68%	3449
SUN0430-0240	3+75.00	AD-8	SUN0430-0245	7+50.00	AD-8	VCP	8	375	6.40%	3449
SUN0430-0235	0+04.00	AD-8	SUN0430-0240	3+75.00	AD-8	VCP	8	371	4.76%	3449
DARMEL PL	10 00 00								2.224	0.7.4.0
RED0465-0020	10+02.60	TR-5913	RED0465-0025	2+59.60	TR-5913	VCP	8	260	0.92%	3546
RED0465-0015	7+27.60	TR-5913	RED0465-0020	10+02.60	TR-5913	VCP	8	275	0.32%	3546
RED0465-0010	4+52.60	TR-5913	RED0465-0015	7+27.60	TR-5913	VCP	8	275	0.32%	3546
RED0465-0005	2+05.00	TR-5913	RED0465-0010	4+52.60	TR-5913	VCP	8	247	0.32%	3546
DARSY CIR										
HAT0090-0145	5+98.09	RS-435	HAT0090-0150	1+45.03	RS-439	VCP	8	145	0.40%	4146
DARTMOUTH CIR										

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
HAT0090-0090	5+17.82	RS-438	HAT0090-0095	7+64.65	RS-437	VCP	8	247	0.40%	4146
HAT0090-0085	2+72.82	RS-438	HAT0090-0090	5+17.82	RS-438	VCP	8	245	0.40%	4146
AN ST										
SUN0315-1390	11+25.09	TR-3951	SUN0315-1395	6+90.11	TR-3951	VCP	8	129	0.24%	3848
SUN0315-1385	9+75.79	TR-3951	SUN0315-1390	11+25.09	TR-3951	VCP	8	156	0.36%	3848
SUN0315-1380	7+88.85	TR-3951	SUN0315-1385	9+75.79	TR-3951	VCP	8	187	2.68%	3848
SUN0315-1375	6+56.05	TR-3951	SUN0315-1380	7+88.85	TR-3951	VCP	8	133	5.40%	3948 / 3848
SUN0315-1370	5+10.00	TR-3951	SUN0315-1375	6+56.05	TR-3951	VCP	8	146	3.00%	3948
SUN0315-1365	2+55.00	TR-3951	SUN0315-1370	5+10.00	TR-3951	VCP	8	255	1.88%	3948
SUN0315-1360	5+33.95	TR-3951	SUN0315-1365	2+55.00	TR-3951	VCP	8	255	0.24%	3948
SUN0315-1085	3+08.90	TR-5059	SUN0315-1100	4+15.40	TR-5059	VCP	8	107	4.00%	3948
SUN0315-1080	6+29.50	TR-5059	SUN0315-1095	1+15.00	TR-5059	VÇP	8	122	0.20%	3948
SUN0315-1080	6+29.50	TR-5059	SUN0315-1085	3+08.90	TR-5059	VCP	8	309	0.20%	3948
HAT0205-0215	2+80.00	TR-3858	HAT0205-0220	5+16.93	TR-3858	VCP	8	237	0.24%	3947 / 3948
HAT0205-0210	0+60.00	TR-3858	HAT0205-0215	2+80.00	TR-3858	VCP	8	220	0.24%	3947
HAT0205-0205	0+91.60	AD-4	HAT0205-0210	0+60.00	TR-3858	VCP	8	90	0.24%	3947
HAT0205-0055	2+65.00	RS-263	HAT0205-0060	3+68.11	RS-263	VCP	8	269	-0.32%	4047
HAT0205-0025	5+33.62	AD-4	HAT0205-0055	2+65.00	RS-263	VCP	8	269	-0.32%	4047
BORAH DR										
SUN0315-1850	3+35.00	AD-5A	SUN0315-1855	2+41.00	AD-5A	VCP	8	241	0.48%	3848
SUN0315-1805	3+45.70	AD-5A	SUN0315-1820	3+66.37	AD-5A	VCP	8	366	0.84%	3748
SUN0315-1760	3+10.99	AD-5A	SUN0315-1780	3+70.00	AD-5A	VCP	8	370	0.84%	3748
BUSK LN										
RED0195-0005	2+77.00	S-145	RED0195-0010	5+48.00	S-145	VCP	8	271	0.40%	4045
RED0195-0000	21+07.88	TR-3951	RED0195-0005	2+77.00	S-145	VCP	8	271	0.40%	4045
EP WELL RD										
SUN0480-0965	12+79.43	TR-8616	SUN0480-0985	14+24.32	TR-8616	VCP	8	145	4.64%	3548
SUN0480-0960	11+62.08	TR-12489	SUN0480-0965	12+79.43	TR-8616	VCP	8	118	0.55%	3548
SUN0480-0955	19+81.52	TR-12489	SUN0480-0960	11+62.08	TR-12489	VCP	8	131	6.20%	3548
SUN0480-0950	15+19.51	TR-12489	SUN0480-0955	19+81.52	TR-12489	VCP	8	458	0.40%	3547 / 3548
SUN0480-0945	12+52.97	TR-12489	SUN0480-0950	15+19.51	TR-12489	VCP	8	263	0.40%	3547
SUN0480-0940	11+08.72	TR-12489	SUN0480-0945	12+52.97	TR-12489	VCP	8	140	0.40%	3547
ERFIELD AV										
HAT0120-0100	2+95.00	RS-737	HAT0120-0105	0+95.00	RS-737	VCP	8	200	0.32%	4146
HAT0120-0095	5+14.52	RS-737	HAT0120-0100	2+95.00	RS-737	VCP	8	220	0.32%	4146
HAT0090-0100	1+28.40	RS-437	HAT0090-0105	2+61.00	RS-435	VCP	8	261	0.40%	4146
ERHILL DR										
SUN0430-1260	0+06.00	SSI-C	SUN0430-1265	4+37.70	TR-4990	VCP	8	151	6.46%	3451
SUN0430-1255	1+06.81	TR-4990	SUN0430-1260	0+06.00	SSI-C	VCP	8	179	7.13%	3451
SUN0430-1165	0+00.00	TR-4990	SUN0430-1255	1+06.81	TR-4990	VCP	8	107	4.00%	3451
SUN0430-1175	3+60.70	TR-4990	SUN0430-1180	0+84.05	7-4B	VCP	8	84	9.28%	3451
SUN0430-1170	2+35.13	TR-4990	SUN0430-1175	3+60.70	TR-4990	VCP	8	126	9.90%	3451
SUN0430-1165	0+00.00	TR-4990	SUN0430-1170	2+35.13	TR-4990	VCP	8	235	9.30%	3451

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
DEL AMO AV										
RED0190-0010	7+06.00	S-143	RED0190-0015	9+21.78	S-143	VCP	8	216	0.60%	4045
RED0190-0005	3+54.00	S-143	RED0190-0010	7+06.00	S-143	VCP	8	352	0.40%	4045
* RED0190-0000	18+40.87	7-4-1	RED0190-0005	3+54.00	S-143	VCP	8	348	0.40%	4045
RED0135-0130	3+30.71	TR-5028	RED0135-0135	3+05.77	TR-5028	VCP	8	306	0.80%	4045
RED0135-0100	2+25.00	TR-4664	RED0135-0090	2+90.00	TR-4664	VCP	8	290	0.24%	4145 / 4144
RED0135-0060	3+00.00	TR-5028	RED0135-0065	5+80.38	TR-5028	VCP	8	280	0.40%	4145
RED0135-0030	1+70.00	TR-5028	RED0135-0060	3+00.00	TR-5028	VCP	8	300	0.40%	4145
RED0087-0070	8+66.05	RS-312	RED0087-0075	5+16.05	RS-312	VCP	10	350	0.24%	4144
RED0087-0065	12+60.16	SSI-E	RED0087-0070	8+66.05	RS-312	VCP	10	237	2.12%	4144
RED0087-0045	37+98.36	SSI-E	RED0087-0065	12+60.16	SSI-E	VCP	10	260	0.64%	4144
DEL CERRO DR										
SUN0315-0880	3+14.00	TR-4331	SUN0315-3890	2+47.00	TR-4331	VCP	8	247	0.40%	3947
DEL REY DR										
SUN0315-1660	6+45.00	AD-4	SUN0315-1665	5+08.00	AD-4	VCP	8	508	1.00%	3848
SUN0315-1460	5+20.00	TR-3951	SUN0315-1465	7+35.00	TR-3951	VCP	8	215	4.92%	3848
SUN0315-1455	2+60.00	TR-3951	SUN0315-1460	5+20.00	TR-3951	VCP	8	260	2.04%	3948 / 3848
SUN0315-1420	1+34.00	TR-3951	SUN0315-1455	2+60.00	TR-3951	VCP	8	260	0.40%	3948
SUN0315-1350	9+25.46	7-3D	SUN0315-1355	2+13.61	TR-3951	VCP	8	203	0.24%	3948
DENBIGH LN										
RED0145-0250	2+35.00	TR-6490	RED0145-0255	4+12.00	TR-6490	VCP	8	177	0.40%	4145 / 4045
DERBY DR										
HAT0000-0295	8+82.45	7-14-2	HAT0000-0470	2+20.00	TR-6206	VCP	8	210	4.66%	3651
HAT0000-0350	5+70.00	TR-6206	HAT0000-0355	0+00.00	TR-6206	VCP	8	134	3.29%	3650
HAT0000-0345	3+67.19	TR-6206	HAT0000-0350	5+70.00	TR-6206	VCP	8	203	12.82%	3650
HAT0000-0340	2+20.00	TR-6206	HAT0000-0345	3+67.19	TR-6206	VCP	8	147	14.40%	3651 / 3650
HAT0000-0335	0+00.00	TR-6206	HAT0000-0340	2+20.00	TR-6206	VCP	8	203	6.98%	3651
HAT0000-0320	10+60.00	TR-6206	HAT0000-0325	2+08.70	TR-6206	VCP	8	107	5.79%	3651
HAT0000-0315	7+70.00	TR-6206	HAT0000-0320	10+60.00	TR-6206	VCP	8	290	4.85%	3651
HAT0000-0310	5+80.00	TR-6206	HAT0000-0315	7+70.00	TR-6206	VCP	8	190	7.58%	3651
HAT0000-0305	2+30.00	TR-6206	HAT0000-0310	5+80.00	TR-6206	VCP	8	350	11.06%	3651
HAT0000-0300	1+16.27	TR-6206	HAT0000-0305	2+30.00	TR-6206	VCP	8	114	6.74%	3651
HAT0000-0295	8+82.45	7-14-2	HAT0000-0300	1+16.27	TR-6206	VCP	8	106	4.14%	3651
DEVONSHIRE AV										
HAT0090-0160	3+50.00	RS-434	HAT0090-0165	2+81.87	S-565	VCP	8	350	1.00%	4145
HAT0090-0155	6+18.00	RS-435	HAT0090-0160	3+50.00	RS-434	VCP	8	268	0.94%	4146 / 4145
HAT0090-0145	5+98.09	RS-435	HAT0090-0155	6+18.00	RS-435	VCP	8	137	0.40%	4146
HAT0090-0050	9+90.81	RS-552	HAT0090-0055	12+20.81	RS-552	VCP	8	230	0.40%	4145
HAT0090-0045	7+60.81	RS-551	HAT0090-0050	9+90.81	RS-552	VCP	8	230	0.40%	4145
HAT0090-0040	5+85.85	RS-551	HAT0090-0045	7+60.81	RS-551	VCP	8	175	0.40%	4245 / 4145
DIAMOND HEAD DR										
SUN0315-0930	2+57.50	TR-4203	SUN0315-0933	UNK	TR-4203		0	104	0.00%	3947
SUN0315-0925	0+12.00	TR-4203	SUN0315-0930	2+57.50	TR-4203	VCP	8	246	0.24%	3947

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0315-0645	5+03.50	TR-4418	SUN0315-0685	1+05.00	TR-4418	VCP	8	105	0.32%	4047
SUN0315-0665	3+96.00	TR-4756	SUN0315-0670	7+01.00	TR-4756	VCP	8	305	0.40%	3947
SUN0315-0660	0+86.00	TR-4756	SUN0315-0665	3+96.00	TR-4756	VCP	8	310	0.40%	3947
SUN0315-0655	4+34.00	TR-4418	SUN0315-0660	0+86.00	TR-4756	VCP	8	86	0.40%	3947
SUN0315-0650	2+17.00	TR-4418	SUN0315-0655	4+34.00	TR-4418	VCP	8	217	0.32%	3947
SUN0315-0645	5+03.50	TR-4418	SUN0315-0650	2+17.00	TR-4418	VCP	8	217	0.32%	4047 / 3947
DODGE AV										
SUN0500-0090	0+22.00	AD-3B	SUN0500-0095	3+51.47	AD-3B	VCP	8	352	0.40%	3547
SUN0500-0020	11+50.00	7-3B	SUN0500-0025	14+14.56	7-3B	VCP	8	265	1.00%	3547
SUN0500-0015	8+43.74	7-3B	SUN0500-0020	11+50.00	7-3B	VCP	8	306	1.00%	3547
SUN0500-0010	5+83.19	7-3B	SUN0500-0015	8+43.74	7-3 B	VCP	8	261	1.00%	3547
SUN0500-0005	2+31.92	7-3B	SUN0500-0010	5+83.19	7-3B	VCP	8	351	1.00%	3547
* SUN0500-0000	153+77.56	7-6-7	SUN0500-0005	2+31.92	7-3B	VCP	8	214	3.00%	3547
SUN0415-0130	24+14.90	7-3B	SUN0500-0000	153+77.56	7-6-7	VCP	8	11	3.00%	3547
SUN0480-0810	19+10.00	7-3B	SUN0480-0815	23+15.00	7-3B	VCP	8	405	1.88%	3648
SUN0480-0805	14+78.34	7-3B	SUN0480-0810	19+10.00	7-3B	VCP	8	432	1.88%	3648
SUN0480-0800	11+12.39	TR-12419	SUN0480-0805	14+78.34	7-3B	VCP	8	354	1.40%	3648
SUN0480-0795	10+00.00	7-3B	SUN0480-0800	11+12.39	TR-12419	VCP	8	123	1.41%	3648
SUN0480-0790	5+22.00	7-3B	SUN0480-0795	10+00.00	7-3B	VCP	8	478	0.52%	3647 / 3648
SUN0480-0787	2+85.00	7-3B	SUN0480-0790	5+22.00	7-3B	VCP	8	235	0.32%	3647
SUN0480-0785	10+80.75	7-39	SUN0480-0787	2+85.00	7-3B	VCP	8	211	0.32%	3647
* SUN0480-0060	140+17.14	7-39	SUN0480-0785	10+80.75	7-39	VCP	8	76	1.31%	3647
DOE RUN										
SUN0430-0125	19+92.00	TR-10398	SUN0430-1980	7+15.00	TR-10398	VCP	8	215	0.40%	3648
DORCHESTER AV							_			
HAT0090-0245	2+57.40	RS-474	HAT0090-0260	4+91.83	RS-473	VCP	8	257	0.36%	4146 / 4246
HAT0090-0245	2+57.40	RS-474	HAT0090-0250	0+00.00	RS-474	VCP	8	257	0.40%	4146
DORIS WY										
SUN0430-1695	5+16.04	AD-2	SUN0430-1715	2+20.00	AD-1	VCP	8	220	5.00%	3449
DORSETSHIRE LN										
SUN0315-3795	3+57.12	TR-3731	SUN0315-3800	5+59.06	TR-3731	VCP	8	200	0.44%	3549
SUN0315-3725	8+11.97	TR-3731	SUN0315-3795	3+57.12	TR-3731	VCP	8	362	0.44%	3549
DRAYTON AV	0.11107	3,32	001100100700	0.07,122	3,31			302	0,	33.3
RED0135-0085	0+02.00	TR-4664	RED0135-0090	2+90.00	TR-4664	VCP	8	224	0.48%	4144
RED0135-0075	5+64.00	TR-4527	RED0135-0085	0+02.00	TR-4664	VCP	8	227	0.20%	4145 / 4144
DREW WY	3.01.00	110 1327	M2B0133 0003	0.02.00	111 100 1	76.		,	0.2070	11137 1111
SUN0635-0025	0+00.00	AD-6	SUN0635-0030	5+05.00	AD-6	VCP	8	505	0.76%	3247 / 3248
DUNAS RD	0.00.00	7.5 0	JON 0033 0030	3.03.00	7.5 0	761		303	0.7070	3217 / 3210
RED0485-0135	0+34.99	AD-3A	RED0485-0175	5+00.00	AD-3A	VCP	8	500	1.00%	3446
RED0485-0135	10+62.50	AD-3A	RED0485-0130	13+45.54	AD-3A	VCP	8	283	1.40%	3446
RED0485-0120	7+58.00	AD-3A	RED0485-0135	10+62.50	AD-3A	VCP	8	305	1.40%	3446
RED0485-0115	3+79.00	AD-3A	RED0485-0120	7+58.00	AD-3A	VCP	8	303 379	1.40%	3446
RED0485-0015	85+18.00	4-17	RED0485-0120	3+79.00		VCP	8	379 379		3446
VED0402-0012	00+10.00	4-1/	UED0402-0112	5+/9.00	AD-3A	I ACL	0	3/3	0.24%	J440

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
EARLHAM ST										
SUN0500-0155	2+33.47	AD3B	SUN0500-0160	3+15.00	AD3B	VCP	8	315	1.40%	3547
SUN0500-0140	10+68.29	AD3B	SUN0500-0155	2+33.47	AD3B	VCP	8	234	4.00%	3547
RED0585-0070	9+59.80	AD-6	RED0585-0075	12+14.00	AD-6	VCP	8	254	0.40%	3247
RED0585-0065	6+27.00	AD-6	RED0585-0070	9+59.80	AD-6	VCP	8	333	0.40%	3247
RED0585-0060	3+06.60	AD-6	RED0585-0065	6+27.00	AD-6	VCP	8	320	0.50%	3247
RED0585-0055	5+42.40	AD-6	RED0585-0060	3+06.60	AD-6	VCP	8	307	0.40%	3347 / 3247
RED0560-0150	1+26.00	TR-3619	RED0560-0180	5+02.43	TR-3619	VCP	8	376	1.40%	3147
EASEMENT										
SUN0980-0020	6+09.82	TR-9606	SUN0980-0030	1+00.00	TR-9606	VCP	8	293	4.48%	3351
SUN0980-0010	0+13.36	7-13	SUN0980-0015	3+21.88	TR-9606	DIP	8	309	9.00%	3351
SUN0500-0170	0+22.71	TR-9669	SUN0500-0175	1+60.71	TR-9669	VCP	8	134	1.40%	3547
SUN0480-1665	6+82.00	AD-1	SUN0480-1670	0+43.60	71-A	VCP	8	58	57.39%	3348
SUN0480-1640	6+89.40	AD-1	SUN0480-1645	0+00.00	AD-1	VCP	8	425	27.20%	3348
SUN0480-1620	4+92.50	AD-1	SUN0480-1625	6+19.00	AD-1	VCP	8	122	4.60%	3348
SUN0480-1618	4+26.50	AD-1	SUN0480-1620	4+92.50	AD-1	VCP	8	66	0.32%	3348
SUN0480-1415	2+40.00	TR-3444	SUN0480-1445	2+53.00	AD-1	VCP	8	253	17.80%	3448
SUN0480-1415	2+40.00	TR-3444	SUN0480-1420	0+00.00	TR-3444	VCP	8	240	3.77%	3448
SUN0480-1370	5+56.00	TR-3444	SUN0480-1415	2+40.00	TR-3444	VCP	8	148	0.38%	3448
SUN0480-1400	6+60.75	SSI-C	SUN0480-1405	3+75.00	SSI-C	VCP	8	375	24.98%	3448
SUN0480-1395	4+60.00	SSI-C	SUN0480-1400	6+60.75	SSI-C	VCP	8	201	0.40%	3448
SUN0480-1390	2+40.00	SSI-C	SUN0480-1395	4+60.00	SSI-C	VCP	8	220	9.45%	3448
SUN0480-1385	0+33.75	SSI-C	SUN0480-1390	2+40.00	SSI-C	VCP	8	206	1.92%	3448
SUN0480-1315	0+20.00	7-4C	SUN0480-1320	5+31.64	7-4C	VCP	8	512	1.88%	3548 / 3448
SUN0480-1285	2+86.00	AD-1	SUN0480-1290	4+14.50	AD-1	VCP	8	129	5.54%	3448
SUN0480-1258	3+20.00	UNK	SUN0480-1260	4+65.00	AD-1	VCP	8	145	30.00%	3448
SUN0480-1255	0+00.00	AD-1	SUN0480-1258	3+20.00	UNK	VCP	8	320	30.00%	3448
SUN0480-1180	10+71.00	AD-1	SUN0480-1185	2+40.00	AD-1	PVC	8	240	25.80%	3448
* SUN0480-0095	161+68.41	7-39	SUN0480-1050	3+86.00	AD3B	VCP	8	386	0.32%	3547
SUN0480-0665	0+97.03	TR-5265	SUN0480-0675	3+68.99	TR-5265	VCP	8	272	1.10%	3648
SUN0480-0660	3+45.05	TR-5576	SUN0480-0665	0+97.03	TR-5265	VCP	8	186	1.00%	3648
SUN0480-0405	113+95.81	7-3B	SUN0480-0550	1+93.75	TR-8988	VCP	8	190	1.64%	3647
SUN0480-0440	5+81.24	TR-6071	SUN0480-0445	7+13.74	TR-6071	VCP	8	133	0.40%	3648
SUN0480-0435	3+31.24	TR-6071	SUN0480-0440	5+81.24	TR-6071	VCP	8	250	0.40%	3648
SUN0480-0430	0+93.37	TR-6071	SUN0480-0435	3+31.24	TR-6071	VCP	8	238	1.00%	3648
SUN0480-0425	121+74.00	TR-7723	SUN0480-0430	0+93.37	TR-6071	VCP	8	43	3.53%	3648
SUN0455-0005	8+05.00	7-3B	SUN0455-0105	0+00.00	AD-2	VCP	8	50	1.88%	3747
SUN0455-0045	2+18.26	AD-2	SUN0455-0050	0+69.06	AD-2	VCP	8	69	0.40%	3747
SUN0455-0040	1+64.86	AD-2	SUN0455-0045	2+18.26	AD-2	VCP	8	53	0.40%	3747
SUN0455-0035	0+00.00	AD-5A	SUN0455-0040	1+64.86	AD-2	VCP	8	165	0.40%	3747
SUN0430-2085	2+61.00	AD-2	SUN0430-2090	4+59.50	AD-2	VCP	8	199	0.40%	3847
SUN0430-2080	3+57.00	AD-2	SUN0430-2085	2+61.00	AD-2	VCP	8	261	0.40%	3847
SUN0430-0020	6+56.41	7-3E	SUN0430-2080	3+57.00	AD-2	VCP	8	357	0.40%	3847
30110730 0020	0.30.41	/ JL	JONO-30 2000	3137.00	7D Z	1 001	J	337	J. 7 J/0	I 307/

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0430-0050	24+16.00	AD2	SUN0430-2065	2+01.46	AD2	VCP	8	201	0.40%	3747
SUN0430-1555	1+90.00	7-3A-4A	SUN0430-1950	1+82.51	TR-5745	VCP	8	183	1.72%	3548
SUN0430-1925	5+25.00	AD-1	SUN0430-1930	7+71.00	AD-1	VCP	8	246	7.00%	3548
SUN0430-1920	3+00.00	AD-1	SUN0430-1925	5+25.00	AD-1	VCP	8	225	17.36%	3548
SUN0430-1570	7+83.00	7-3A-4A	SUN0430-1920	3+00.00	AD-1	VCP	8	300	2.84%	3548
SUN0430-1910	1+62.00	AD-1	SUN0430-1915	4+55.00	AD-1	VCP	8	293	0.94%	3548
SUN0430-1600	25+13.56	7-3A-4A	SUN0430-1910	1+62.00	AD-1	VCP	8	162	12.01%	3548
SUN0430-1865	1+50.00	AD-1	SUN0430-1870	4+57.91	AD-2	VCP	8	308	3.22%	3448
SUN0430-1860	1+05.97	AD-1	SUN0430-1865	1+50.00	AD-1	VCP	8	150	22.40%	3448
SUN0430-1795	0+73.00	AD-1	SUN0430-1805	4+47.00	AD-1	VCP	8	374	9.68%	3548
SUN0430-1635	11+16.77	AD-1	SUN0430-1795	0+73.00	AD-1	VCP	8	73	0.50%	3548
SUN0430-1500	6+93.60	AD-1	SUN0430-1505	8+30.00	SSI-E	VCP	8	136	3.14%	3549
SUN0430-0185	44+62.86	7-3A-4A	SUN0430-1395	1+99.27	TR-5646	VCP	8	195	6.60%	3549
SUN0430-0935	21+93.00	TR-5448	SUN0430-1340	0+00.00	TR-5448	VCP	8	244	18.60%	3550
SUN0430-1330	3+14.47	TR-5448	SUN0430-1335	5+07.01	TR-5448	VCP	8	189	50.40%	3550
SUN0430-1260	0+06.00	SSI-C	SUN0430-1270	2+27.00	SSI-C	VCP	8	221	31.81%	3451
SUN0430-1205	1+39.28	SSI-F	SUN0430-1210	2+99.17	SSI-F	VCP	8	155	0.40%	3451
SUN0430-1000	26+18.00	TR-5840	SUN0430-1055	0+00.00	TR-5840	VCP	8	296	25.44%	3551
SUN0430-0815	2+75.00	TR-1917	SUN0430-0820	4+75.00	TR-1917	VCP	6	200	16.58%	3450
SUN0430-0405	6+13.83	TR-1917	SUN0430-0815	2+75.00	TR-1917	VCP	6	275	12.52%	3450
SUN0430-0805	2+08.73	TR-1917	SUN0430-0810	2+74.00	TR-1917	VCP	6	274	0.40%	3450
SUN0430-0415	13+25.16	TR-1917	SUN0430-0805	2+08.73	TR-1917	VCP	6	213	16.00%	3450
SUN0430-0805	2+08.73	TR-1917	SUN0430-0803	6+65.73	TR-1917	VCP	6	457	5.08%	3450
SUN0430-0435	1+34.83	SSI-D	SUN0430-0760	7+19.45	SSI-D	VCP	8	585	22.77%	3450
SUN0430-0720	4+50.00	TR-9606	SUN0430-0725	6+40.00	TR-9606	VCP	8	190	23.20%	3450
SUN0430-0470	12+00.36	TR-9606	SUN0430-0720	4+50.00	TR-9606	VCP	8	393	32.24%	3451 / 3450
SUN0430-0490	25+87.99	TR-9606	SUN0430-0495	4+45.81	TR-9606	VCP	8	245	0.40%	3351
SUN0430-0385	1+32.52	7-15	SUN0430-0390	5+25.72	7-15	DIP	8	389	3.43%	3449 / 3450
SUN0430-0205	2+70.90	TR-13238	SUN0430-0350	1+32.00	TR-13238	DIP	8	128	18.36%	3449
SUN0430-0225	13+46.58	TR-4130	SUN0430-0330	1+01.71	TR-7723	VCP	8	83	1.60%	3449
SUN0430-0270	0+00	TR-10302	SUN0430-0320	4+66.75	TR-10302	VCP	8	463	4.40%	3449
SUN0430-0310	1+52.50	TR-4130	SUN0430-0315	4+47.65	TR-4130	VCP	8	295	0.39%	3449
SUN0430-0305	4+88.75	TR-4130	SUN0430-0310	1+52.50	TR-4130	VCP	8	153	2.40%	3449
SUN0430-0210	4+45.00	TR-4130	SUN0430-0215	6+85.60	TR-4130	VCP	8	270	4.20%	3449
SUN0430-0205	2+70.90	TR-13238	SUN0430-0210	4+45.00	TR-4130	VCP	8	174	2.78%	3449
SUN0430-0200	1+45.50	TR-4130	SUN0430-0205	2+70.90	TR-13238	VCP	8	125	2.83%	3449
SUN0430-0195	49+37.45	7-3A-4A	SUN0430-0200	1+45.50	TR-4130	VCP	8	145	4.07%	3449
SUN0415-0265	3+14.50	TR-3779	SUN0415-0270	1+62.00	TR-3779	VCP	8	150	UNK	3846
SUN0415-0030	29+08.43	7-39	SUN0415-0265	3+14.50	TR-3779	VCP	8	182	0.20%	3846
SUN0315-3725	8+11.97	TR-3731	SUN0315-3730	1+84.85	TR-3731	VCP	8	185	1.21%	3549
SUN0315-3540	0+69.11	AD-5A	SUN0315-3565	1+35.00	AD-5A	VCP	8	135	3.15%	3749
SUN0315-3550	3+65.98	AD-3B	SUN0315-3555	3+35.61	AD-5A	VCP	8	336	2.56%	3749
SUN0315-3540	0+69.11	AD-5A	SUN0315-3545	2+20.70	AD-5A	VCP	8	152	0.40%	3749

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0315-3535	2+59.92	AD-5A	SUN0315-3540	0+69.11	AD-5A	VCP	8	82	3.48%	3749
SUN0315-3530	1+57.50	AD-5A	SUN0315-3535	2+59.92	AD-5A	VCP	8	102	0.48%	3749
SUN0315-3485	5+09.27	AD-5A	SUN0315-3530	1+57.50	AD-5A	VCP	8	158	3.80%	3749
SUN0315-3495	13+61.00	AD-5A	SUN0315-3510	1+80.00	TR-5413	VCP	8	173	1.30%	3749
SUN0315-3500	14+84.47	7-3B	SUN0315-3505	17+33.06	AD-5A	VCP	8	249	13.20%	3749
SUN0315-3430	2+58.00	AD-5A	SUN0315-3435	4+67.00	AD-5A	VCP	8	209	17.28%	3849
SUN0315-3425	8+63.20	AD-5A	SUN0315-3430	2+58.00	AD-5A	VCP	8	253	12.46%	3849
SUN0315-3340	3+19.70	AD-5A	SUN0315-3345	4+97.70	AD-5A	VCP	8	178	5.24%	3749
SUN0315-3335	9+48.70	AD-5A	SUN0315-3340	3+19.70	AD-5A	VCP	8	310	5.64%	3749
SUN0315-3330	7+75.00	AD-5A	SUN0315-3335	9+48.70	AD-5A	VCP	8	174	0.43%	3749
SUN0315-3325	4+40.00	AD-5A	SUN0315-3330	7+75.00	AD-5A	VCP	8	335	2.32%	3749
SUN0315-0210	13+75.00	AD-5A	SUN0315-3325	4+40.00	AD-5A	VCP	8	440	2.12%	3749
SUN0315-3310	1+18.44	AD-5A	SUN0315-3320	0+80.00	AD-5A	VCP	8	80	0.40%	3749
SUN0315-3310	1+18.44	AD-5A	SUN0315-3315	1+60.00	AD-5A	VCP	8	160	4.36%	3749
SUN0315-3275	2+16.34	TR-4846	SUN0315-3295	0+80.00	TR-4846	VCP	8	80	18.00%	3649
SUN0315-3285	1+92.00	TR-4846	SUN0315-3290	2+48.00	TR-4846	VCP	8	60	28.00%	3650
SUN0315-3250	6+85.75	TR-4586	SUN0315-3255	9+08.58	TR-4586	VCP	8	223	2.40%	3649
SUN0315-3245	5+20.75	TR-4586	SUN0315-3250	6+85.75	TR-4586	VCP	8	165	9.40%	3649
SUN0315-3130	6+82.54	TR-4855	SUN0315-3135	8+09.54	TR-4855	VCP	8	127	0.40%	3650
SUN0315-3125	6+49.54	TR-4855	SUN0315-3130	6+82.54	TR-4855	VCP	8	35	33.80%	3650
SUN0315-3120	4+65.04	TR-4855	SUN0315-3125	6+49.54	TR-4855	VCP	8	183	6.96%	3650
SUN0315-3115	1+10.04	TR-4855	SUN0315-3120	4+65.04	TR-4855	VCP	8	355	1.20%	3549 / 3650
SUN0315-2775	2+11.97	TR-4855	SUN0315-3115	1+10.04	TR-4855	VCP	8	110	12.16%	3549
SUN0315-2980	1+06.00	TR-5009	SUN0315-2985	2+29.48	TR-5009	VCP	8	123	0.40%	3650
SUN0315-2975	0+23.00	TR-5009	SUN0315-2980	1+06.00	TR-5009	VCP	8	83	59.64%	3650
SUN0315-2970	8+07.56	TR-5009	SUN0315-2975	0+23.00	TR-5009	VCP	8	23	3.16%	3650
SUN0315-2745	3+96.91	TR-6507	SUN0315-2750	7+16.78	TR-6507	VCP	8	320	17.10%	3550
SUN0315-2720	2+19.76	TR-6507	SUN0315-2725	1+98.13	TR-6507	VCP	8	198	19.80%	3550
SUN0315-2710	9+81.78	TR-6507	SUN0315-2715	3+38.86	TR-6507	VCP	8	339	16.10%	3550
SUN0315-2650	4+52.15	TR-6507	SUN0315-2655	1+59.48	TR-6507	VCP	8	159	10.30%	3550
SUN0315-2640	0+00.00	TR-5448	SUN0315-2645	1+00.00	TR-6507	VCP	8	261	20.56%	3550
SUN0315-2475	13+28.10	AD-5A	SUN0315-2525	1+29.50	AD-5A	VCP	8	132	2.76%	3649
SUN0315-2505	1+56.00	AD-5A	SUN0315-2510	10+89.10	AD-5A	VCP	8	271	18.80%	3749
SUN0315-2500	6+63.10	AD-5A	SUN0315-2505	1+56.00	AD-5A	VCP	8	154	12.04%	3649 / 3749
SUN0315-2495	3+02.00	AD-5A	SUN0315-2500	6+63.10	AD-5A	VCP	8	361	8.78%	3649
SUN0315-2490	1+31.84	AD-5A	SUN0315-2495	3+02.00	AD-5A	VCP	8	170	3.14%	3649
SUN0315-2460	4+97.26	AD-5A	SUN0315-2490	1+31.84	AD-5A	VCP	8	158	0.63%	3649
SUN0315-2475	13+28.10	AD-5A	SUN0315-2480	1+88.66	AD-5A	VCP	8	179	9.80%	3649
SUN0315-2470	10+76.82	AD-5A	SUN0315-2475	13+28.10	AD-5A	VCP	8	251	5.92%	3649
SUN0315-2465	6+38.48	AD-5A	SUN0315-2470	10+76.82	AD-5A	VCP	8	438	7.60%	3649
SUN0315-2205	1+72.00	TR-3527	SUN0315-2210	0+00.00	TR-3527	VCP	12	172	0.70%	3748
SUN0315-3955	358+72.90	7-22	SUN0315-2205	1+72.00	TR-3527	VCP	12	222	0.70%	3748
SUN0315-2115	6+97.67	AD-5A	SUN0315-2120	5+10.41	AD-5A	VCP	8	510	10.44%	3749
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	DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
	SUN0315-2110	5+15.96	AD-5A	SUN0315-2115	6+97.67	AD-5A	VCP	8	182	0.80%	3749
	SUN0315-2100	17+61.17	AD-5A	SUN0315-2105	17+61.17	AD-5A	VCP	8	394	0.40%	3749
	SUN0315-2030	1+76.14	TR-8606	SUN0315-2035	4+76.14	TR-8606	VCP	8	300	1.69%	3748
	SUN0315-3930	334+18.00	7-22	SUN0315-2030	1+76.14	TR-8606	VCP	8	176	3.43%	3748
	SUN0315-1265	13+01.49	AD-4	SUN0315-1267	UNK	AD-4	VCP	8	92	3.00%	3847
	SUN0315-1110	4+85.50	7-3E	SUN0315-1160	4+20.00	TR-1967	VCP	8	82	7.39%	3847
	SUN0315-1065	0+28.00	AD-4	SUN0315-1075	2+55.00	TR-5059	VCP	8	255	0.20%	3947 / 3948
	SUN0315-0440	2+53.00	S-139	SUN0315-0445	6+08.00	S-139	VCP	8	355	0.84%	3946
	SUN0315-0370	11+16.00	S-137	SUN0315-0440	2+53.00	S-139	VCP	8	248	0.84%	3946
	SUN0315-0430	3+41.00	S-139	SUN0315-0435	6+79.00	S-139	VCP	8	338	0.72%	3946 / 3945
	SUN0315-0360	6+76.00	S-137	SUN0315-0430	3+41.00	S-139	VCP	8	336	1.08%	3946
	SUN0315-0400	3+41.00	S-136	SUN0315-0405	6+80.00	S-136	VCP	8	339	0.58%	3945
	SUN0315-0350	2+60.00	S-137	SUN0315-0400	3+41.00	S-136	VCP	8	336	0.58%	3946 / 3945
*	SUN0315-0020	17+63.62	7-36	SUN0315-0285	3+16.97	SSI-F	VCP	8	317	1.00%	4046
	SUN0315-0275	3+62.00	1-1	SUN0315-0280	5+47.00	SSI-F	VCP	8	185	0.32%	4046
	SUN0315-0270	9+90.67	S-584	SUN0315-0275	3+62.00	1-1	VCP	8	344	0.32%	4046
	SUN0315-0268	9+31.00	TSI-7	SUN0315-0270	9+90.67	S-584	VCP	8	74	0.24%	4046
	SUN0315-0265	6+43.00	S-584	SUN0315-0268	9+31.00	TSI-7	VCP	8	268	0.24%	4046
	SUN0315-0260	3+80.00	S-584	SUN0315-0265	6+43.00	S-584	VCP	8	283	0.24%	4046
*	SUN0315-0015	16+63.21	7-36	SUN0315-0260	3+80.00	S-584	VCP	8	344	0.29%	4046
	SUN0140-0975	1+23.35	SSI-G	SUN0140-0980	3+39.38	SSI-G	VCP	12	216	0.43%	4243
	SUN0140-0970	0+31.36	SSI-G	SUN0140-0975	1+23.35	SSI-G	VCP	12	92	0.43%	4343 / 4243
*	SUN0140-0740	27+04.00	7-2-R	SUN0140-0970	0+31.36	SSI-G	VCP	12	23	0.40%	4343
*	SUN0140-0745	33+54.99	7-2-R	SUN0140-0840	13+25.08	X-47	VCP	8	20	5.20%	4243
	RED0625-0465	3+70.65	AD-1	RED0625-0470	4+37.65	AD-1	VCP	8	67	9.80%	3348
	RED0625-0360	2+20.25	AD-1	RED0625-0465	3+70.65	AD-1	VCP	8	150	5.30%	3348
	RED0625-0371	6+52.44	AD-1	RED0625-0375	8+07.80	AD-1	VCP	8	155	32.09%	3348
	RED0625-0370	4+79.97	AD-1	RED0625-0371	6+52.44	AD-1	VCP	8	172	44.82%	3348
	RED0625-0365	2+35.75	AD-1	RED0625-0370	4+79.97	AD-1	VCP	8	244	29.97%	3348
	RED0625-0220	2+87.46	AD-1	RED0625-0295	3+15.00	AD-1	VCP	8	315	6.48%	3449
	RED0625-0270	2+60.00	AD-1	RED0625-0275	5+14.00	AD-1	VCP	8	254	17.14%	3449 / 3448
	RED0625-0150	2+91.00	TR-6208	RED0625-0155	8+11.03	AD-1	VCP	8	272	2.30%	3449
*	RED0465-0000	160+22.54	7-41	RED0465-0005	2+05.00	TR-5913	VCP	8	206	0.32%	3546
	RED0420-0195	4+60.00	7-4B	RED0420-0385	12+49.65	X-43	VCP	8	255	0.40%	3545
	RED0420-0150	7+00.00	TR-4005	RED0420-0155	9+70.00	TR-4005	VCP	8	270	0.96%	3646
	RED0420-0145	3+50.00	TR-4005	RED0420-0150	7+00.00	TR-4005	VCP	8	350	0.96%	3646
	RED0420-0005	1+34.00	TR-4005	RED0420-0145	3+50.00	TR-4005	VCP	8	350	0.96%	3646
*	RED0410-0000	121+27.90	7-41	RED0410-0005	1+95.00	TR-7924	VCP	8	166	0.40%	3646
	RED0395-0055	0+00.00	TR-6082	RED0395-0235	1+45.00	TR-6082	VCP	8	151	0.24%	3645
	RED0395-0200	1+42.00	RS-156	RED0395-0205	2+54.00	RS-156	VCP	8	254	0.40%	3645
	RED0395-0065	5+30.00	AD-3A	RED0395-0070	6+75.00	TR-6082	VCP	8	145	0.43%	3645
	RED0395-0060	4+18.00	AD-3A	RED0395-0065	5+30.00	AD-3A	VCP	8	112	0.40%	3645
	RED0395-0055	0+00.00	TR-6082	RED0395-0060	4+18.00	AD-3A	VCP	8	76	0.40%	3645

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
RED0395-0050	2+08.00	AD-3A	RED0395-0055	0+00.00	TR-6082	VCP	8	134	0.40%	3645
RED0395-0045	1+77.00	AD-3A	RED0395-0050	2+08.00	AD-3A	VCP	8	31	0.40%	3645
RED0395-0040	13+21.71	2-3	RED0395-0045	1+77.00	AD-3A	VCP	8	177	0.40%	3645
RED0395-0020	9+82.97	AD-3A	RED0395-0025	16+33.24	TR-5167	VCP	8	313	0.40%	3645
RED0390-0465	0+00.00	AD-1	RED0390-0490	0+00.00	AD-3A	VCP	8	292	0.40%	3545
RED0390-0450	1+46.65	TR-3697	RED0390-0455	0+48.71	TR-3697	VCP	8	143	0.20%	3545
RED0390-0445	1+33.15	TR-3612	RED0390-0450	1+46.65	TR-3697	VCP	8	147	0.20%	3545
RED0360-0120	1+00.00	S-583	RED0360-0125	2+87.50	S-583	VCP	8	188	0.40%	3745
RED0360-0040	1+94.43	S-524	RED0360-0045	3+34.34	S-524	VCP	8	140	0.24%	3745
RED0360-0035	1+38.02	S-524	RED0360-0040	1+94.43	S-524	VCP	8	56	UNK	3745
RED0360-0030	0+05.00	TR-3798	RED0360-0035	1+38.02	S-524	VCP	8	138	0.21%	3745
RED0325-0005	91+20.00	TR-7420	RED0325-0010	1+01.51	TR-7420	VCP	8	102	0.40%	3745
RED0315-0030	5+42.00	S-578	RED0315-0035	8+42.00	S-578	VCP	8	300	0.40%	3845
RED0315-0025	2+42.00	S-578	RED0315-0030	5+42.00	S-578	VCP	8	300	0.40%	3845
RED0305-0000	68+51.46	7-41	RED0315-0025	2+42.00	S-578	VCP	8	253	0.40%	3845
RED0300-0000	64+29.56	7-41	RED0300-0005	4+06.72	RS-782	VCP	8	413	0.88%	3845
RED0267-0060	5+56.00	S-132	RED0267-0065	6+26.00	S-132	VCP	8	70	0.80%	3845
RED0267-0055	2+90.00	S-132	RED0267-0060	5+56.00	S-132	VCP	8	266	0.36%	3846 / 3845
RED0267-0040	1+99.00	S-132	RED0267-0055	2+90.00	S-132	VCP	8	290	0.36%	3846
RED0267-0040	1+99.00	S-132	RED0267-0045	1+90.00	S-132	VCP	8	190	0.40%	3846
RED0267-0030	0+04.00	S-132	RED0267-0040	1+99.00	S-132	VCP	8	195	0.29%	3846
RED0267-0030	0+04.00	S-132	RED0267-0035	1+12.93	RS-152	VCP	6	109	1.00%	3846 / 3946
RED0255-0010	3+94.30	S-122	RED0255-0015	7+61.60	S-122	VCP	8	368	0.64%	3945
RED0255-0005	3+63.20	S-122	RED0255-0010	3+94.30	S-122	VCP	8	31	0.64%	3945
RED0255-0000	41+36.18	7-41	RED0255-0005	3+63.20	S-122	VCP	8	548	0.64%	3945
RED0250-0015	1+93.00	S-121	RED0250-0090	1+36.00	S-121	VCP	8	136	0.32%	3945
RED0250-0050	6+08.34	X-45	RED0250-0055	11+22.18	S-121	VCP	8	43	1.28%	3845
RED0250-0070	4+44.87	X-44	RED0250-0050	6+08.34	X-45	VCP	10	159	0.23%	3845
RED0250-0045	9+22.18	S-121	RED0250-0050	6+08.34	X-45	VCP	8	112	0.40%	3845
RED0250-0040	7+22.18	S-121	RED0250-0045	9+22.18	S-121	VCP	8	200	0.50%	3945 / 3845
RED0250-0035	3+58.12	X-42	RED0250-0040	7+22.18	S-121	VCP	8	121	0.40%	3945
RED0250-0030	2+88.83	X-42	RED0250-0035	3+58.12	X-42	VCP	8	69	0.40%	3945
RED0250-0025	1+65.81	X-42	RED0250-0030	2+88.83	X-42	VCP	8	123	0.40%	3945
RED0250-0020	3+87.18	S-121	RED0250-0025	1+65.81	X-42	VCP	8	66	0.40%	3945
RED0250-0015	1+93.00	S-121	RED0250-0020	3+87.18	S-121	VCP	8	194	0.50%	3945
RED0250-0010	1+95.00	S-120	RED0250-0015	1+93.00	S-121	VCP	8	195	0.50%	3945
RED0215-0465	3+23.40	S-106	RED0215-0470	3+70.00	S-106	VCP	8	47	0.34%	3844
RED0215-0460	1+69.40	S-106	RED0215-0465	3+23.40	S-106	VCP	8	310	1.78%	3944 / 3844
RED0215-0340	1+78.00	S-118	RED0215-0380	1+60.00	S-124	VCP	8	160	0.40%	3845
RED0215-0360	0+02.50	S-119	RED0215-0375	4+30.00	S-124	VCP	8	130	0.40%	3845
RED0215-0340	1+78.00	S-118	RED0215-0360	0+02.50	S-119	VCP	8	300	0.49%	3845
RED0215-0095	4+29.94	RS-268	RED0215-0100	4+14.85	RS-282	VCP	8	281	0.32%	3845
RED0215-0016	5+69.82	7-3A-4A	RED0215-0020	2+91.85	7-3A-4A	VCP	10	210	0.40%	3945

	DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
	RED0215-0014	4+57.89	7-3A-4A	RED0215-0016	5+69.82	7-3A-4A	DIP	10	124	0.32%	3945
	RED0215-0012	3+73.92	7-3A-4A	RED0215-0014	4+57.89	7-3A-4A	DIP	10	86	0.32%	3945
	RED0215-0010	2+66.50	7-3A-4A	RED0215-0012	3+73.92	7-3A-4A	VCP	10	107	0.40%	3945
	RED0215-0005	37+81.00	7-4-1	RED0215-0010	2+66.50	7-3A-4A	VCP	10	267	0.85%	3945
*	RED0215-0000	16+78.99	7-41	RED0215-0005	37+81.00	7-4-1	VCP	21	520	0.56%	4045 / 3945
	RED0145-0035	19+58.10	7-2B	RED0145-0165	3+77.00	S-571	VCP	8	377	0.36%	4045
	RED0125-0085	8+15.34	S-561	RED0125-0090	1+14.00	RS-464	VCP	8	360	0.40%	4145
	RED0125-0050	9+36.00	S-562	RED0125-0055	1+95.00	RS-463	VCP	8	315	0.40%	4145
	RED0125-0030	2+14.17	S-561	RED0125-0035	5+13.16	S-561	VCP	8	249	0.38%	4245
	RED0125-0025	0+59.00	S-561	RED0125-0030	2+14.17	S-561	VCP	8	230	0.40%	4145 / 4245
*	RED0125-0000	188+23.47	7-2	RED0125-0025	0+59.00	S-561	CIP	8	69	0.32%	4145
	RED0125-0015	7+08.38	S-582	RED0125-0020	2+52.33	S -582	PVC	8	203	0.40%	4145
	RED0125-0010	3+77.38	S-582	RED0125-0015	7+08.38	S-582	VCP	8	331	0.40%	4145
	RED0125-0005	0+39.00	S-582	RED0125-0010	3+77.38	S-582	VCP	8	338	0.40%	4145
*	RED0125-0000	188+23.47	7-2	RED0125-0005	0+39.00	S-582	VCP	8	39	4.59%	4145
	RED0120-0770	7+86.97	S-573	RED0120-0775	8+58.97	S-573	VCP	6	72	UNK	3943
	RED0120-0770	7+86.97	S-573	RED0120-0775	8+58.97	S-573	VCP	6	72	UNK	3943
	RED0120-0765	4+76.97	S-573	RED0120-0770	7+86.97	S-573	VCP	8	310	0.24%	3943
	RED0120-0760	1+51.97	S-573	RED0120-0765	4+76.97	S-573	VCP	8	325	0.24%	3943
*	RED0120-0415	92+60.44	7-5-2	RED0120-0760	1+51.97	S-573	VCP	8	152	0.24%	3943
	RED0120-0745	1+72.25	S-601	RED0120-0750	3+27.50	S-601	VCP	8	155	0.96%	4044
	RED0120-0735	2+26.93	TR-4854	RED0120-0740	5+80.93	TR-4854	VCP	8	354	0.40%	3944
	RED0120-0730	1+51.00	TR-4854	RED0120-0735	2+26.93	TR-4854	VCP	8	76	0.40%	3944
	RED0120-0700	2+17.20	TR-4854	RED0120-0730	1+51.00	TR-4854	VCP	8	151	0.40%	3944
	RED0120-0710	2+27.00	TR-4854	RED0120-0725	1+03.43	TR-4854	VCP	8	103	0.40%	3944
	RED0120-0715	2+70.15	TR-4854	RED0120-0720	2+96.00	TR-4854	VCP	8	296	0.40%	3944
	RED0120-0710	2+27.00	TR-4854	RED0120-0715	2+70.15	TR-4854	VCP	8	43	0.40%	3944
	RED0120-0705	4+14.20	TR-4854	RED0120-0710	2+27.00	TR-4854	VCP	8	227	0.40%	3944
	RED0115-0210	1+29.00	RS-295	RED0115-0230	2+20.00	RS-295	VCP	8	220	0.32%	4044
	RED0115-0195	1+79.00	S-529	RED0115-0200	4+32.00	RS-295	VCP	8	123	0.32%	4044
	RED0115-0190	1+58.00	S-529	RED0115-0195	1+79.00	S-529	VCP	8	21	0.30%	4044
	RED0115-0080	0+00.00	S-529	RED0115-0190	1+58.00	S-529	VCP	8	154	0.30%	4044
	RED0115-0045	3+47.00	7-4-2R	RED0115-0050	5+20.00	7-4-2R	VCP	12	173	0.36%	4144
*	RED0115-0015	26+13.00	7-4-2	RED0115-0045	3+47.00	7-4-2R	VCP	12	384	0.68%	4144
	RED0105-0070	0+32.00	X-39	RED0105-0075	1+90.37	X-39	VCP	8	158	4.40%	4245
	RED0105-0040	9+16.91	X-39	RED0105-0065	2+37.37	X-39	VCP	8	237	2.00%	4245
	RED0070-0010	5+86.50	X-33	RED0070-0015	8+70.50	X-33	VCP	8	280	0.40%	4343
	RED0070-0005	3+02.50	X-33	RED0070-0010	5+86.50	X-33	VCP	8	280	0.40%	4344 / 4343
*	RED0070-0000	140+82.00	7-2	RED0070-0005	3+02.50	X-33	VCP	8	280	2.90%	4344
	HAT0485-0000	12+64.91	FOOTHILL BLVD	HAT0490-0000	13+02.02	FOOTHILL BLVD	VCP	8	33	23.71%	3750
	HAT0440-0000	5+47.50	SSI-D	HAT0445-0000	6+25.50	SSI-D	VCP	8	78	6.92%	3750
	HAT0435-0000	4+67.50	SSI-D	HAT0440-0000	5+47.50	SSI-D	DIP	8	80	3.14%	3750
	HAT0425-0000	0+97.50	SSI-D	HAT0430-0000	2+87.00	SSI-D	DIP	8	190	57.20%	3750

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
HAT0415-0000	1+94.40	TR-9688	HAT0420-0000	3+99.70	TR-9688	VCP	8	215	43.20%	3750
HAT0415-0015	3+41.22	SSI-F	HAT0415-0020	5+24.79	SSI-F	VCP	8	184	1.79%	3750
HAT0415-0010	1+79.86	SSI-F	HAT0415-0015	3+41.22	SSI-F	VCP	8	161	1.79%	3750
HAT0415-0005	0+15.74	SSI-F	HAT0415-0010	1+79.86	SSI-F	VCP	8	164	1.79%	3750
HAT0415-0000	1+94.40	TR-9688	HAT0415-0005	0+15.74	SSI-F	VCP	8	16	17.90%	3750
HAT0410-0000	0+95.00	TR-9688	HAT0415-0000	1+94.40	TR-9688	VCP	8	104	7.07%	3750
HAT0375-0040	9+92.78	SSI-E	HAT0375-0045	11+40.10	SSI-E	VCP	8	147	15.60%	3750 / 3749
HAT0375-0025	1+99.28	SSI-E	HAT0375-0030	3+82.57	SSI-E	VCP	8	183	7.32%	3750
HAT0375-0020	9+26.65	SSI-E	HAT0375-0025	1+99.28	SSI-E	VCP	8	199	3.00%	3750
HAT0290-0055	2+70.54	AD-4	HAT0290-0060	2+78.97	AD-4	VCP	8	272	2.10%	3849 / 3850
HAT0290-0050	1+22.54	AD-4	HAT0290-0055	2+70.54	AD-4	VCP	8	148	0.40%	3849
HAT0255-0010	5+02.80	7-3D	HAT0255-0275	2+86.00	TR-3599	VÇP	8	284	0.60%	3948
HAT0255-0195	1+25.00	AD-5A	HAT0255-0200	2+86.23	AD-5A	VCP	8	161	0.40%	3848 / 3849
HAT0255-0175	2+73.17	AD-5A	HAT0255-0195	1+25.00	AD-5A	VCP	8	125	0.40%	3848
HAT0255-0180	5+38.03	AD-5A	HAT0255-0185	7+21.03	AD-5A	VCP	8	183	3.60%	3848
HAT0255-0175	2+73.17	AD-5A	HAT0255-0180	5+38.03	AD-5A	VCP	8	265	0.40%	3848
HAT0255-0170	2+84.50	AD4	HAT0255-0175	2+73.17	AD-5A	VCP	8	273	0.40%	3848
HAT0255-0135	2+50.19	AD-4	HAT0255-0140	3+72.24	AD-4	VCP	8	122	2.60%	3848
HAT0255-0095	3+49.40	AD-4	HAT0255-0135	2+50.19	AD-4	VCP	8	250	0.40%	3848
HAT0255-0115	0+00.00	SSI-D	HAT0255-0125	2+90.00	SSI-D	VCP	8	290	1.00%	3848
HAT0255-0075	2+31.97	AD-4	HAT0255-0080	2+89.00	AD-4	VCP	8	420	1.25%	3948 / 3848
HAT0205-0200	1+67.94	AD-4	HAT0205-0205	0+91.60	AD-4	VCP	8	76	UNK	3947
HAT0205-0200	1+67.94	AD-4	HAT0205-0205	0+91.60	AD-4	DIP	8	76	25.00%	3947
HAT0205-0015	17+41.87	RS-229	HAT0205-0160	2+54.75	RS-230	VCP	8	255	1.10%	4047
HAT0205-0015	17+41.87	RS-229	HAT0205-0120	1+08.00	RS-321	VCP	8	108	0.32%	4047
HAT0180-0025	3+72.13	TR-7454	HAT0180-0030	6+35.1	SSI-F	VCP	8	305	UNK	4047
HAT0180-0020	0+71.00	TR-5225	HAT0180-0025	3+72.13	TR-7454	VCP	8	305	UNK	4047
HAT0180-0015	6+35.36	AD-4	HAT0180-0020	0+71.00	TR-5225	VCP	8	91	UNK	4047
HAT0170-0000	52+80.19	7-22	HAT0175-0000	55+05,67	7-2A	VCP	12	226	0.30%	4147
HAT0115-0000	0+00.00	RS-472	HAT0120-0000	27+15.77	7-2A	VCP	18	170	0.52%	4146
HAT0110-0000	23+60.38	7-2A	HAT0115-0000	0+00.00	RS-472	VCP	18	185	0.52%	4246 / 4146
HAT0105-0000	20+05.00	7-2A	HAT0110-0000	23+60.38	7-2A	VCP	18	355	0.52%	4246
HAT0090-0000	0+93.20	RS-498	HAT0095-0000	10+05.00	7-2A	VCP	21	375	0.24%	4246
HAT0090-0270	0+00.00	RS-473	HAT0090-0275	3+37.06	S-541	VCP	8	340	0.80%	4246
HAT0090-0230	3+37.06	S-541	HAT0090-0235	4+90.00	RS-476	VCP	8	340	0.40%	4246
HAT0090-0170	5+21.66	S-565	HAT0090-0175	6+77.08	S-565	VCP	8	156	0.40%	4145
HAT0090-0165	2+81.87	S-565	HAT0090-0170	5+21.66	S-565	VCP	8	282	1.90%	4145
HAT0090-0080	4+03.44	S-564	HAT0090-0085	2+72.82	RS-438	VCP	8	273	0.40%	4145 / 4146
HAT0090-0040	5+85.85	RS-551	HAT0090-0060	1+31.03	RS-552	VCP	8	131	0.40%	4245
HAT0085-0000	5+05.00	7-2A	HAT0090-0000	0+93.20	RS-498	VCP	21	125	0.24%	4246
HAT0080-0000	3+25.00	S-536	HAT0085-0000	5+05.00	7-2A	VCP	21	180	0.34%	4246
HAT0080-0100	3+00.00	RS-494	HAT0080-0105	6+00.00	RS-560	VCP	8	300	0.50%	4245
HAT0075-0000	0+05.00	7-2A	НАТ0080-0000	3+25.00	S-536	VCP	21	320	0.19%	4246

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
HAT0025-0000	18+25.70	7-20	HAT0030-0000	19+60.50	7-20	VCP	15	140	UNK	4347
HAT0020-0000	12+50.00	7-20	HAT0025-0000	18+25.70	7-20	VCP	24	573	0.20%	4347
HAT0015-0000	6+50.00	7-20	HAT0020-0000	12+50.00	7-20	VCP	24	600	0.20%	4447 / 4347
HAT0010-0000	1+14.50	7-20	HAT0015-0000	6+50.00	7-20	VCP	24	536	0.20%	4447
HAT0005-0000	0+79.66	7-20	HAT0010-0000	1+14.50	7-20	VCP	24	35	0.14%	4447
** HAT0000-0000	0+65.16	7-20	HAT0005-0000	0+79.66	7-20	VCP	24	15	5.00%	4447
** HAT0000-0775	42+16.58	7-14-9	HAT0000-0780	3+84.75	7-14-9	DIP	8	285	9.34%	3552
HAT0000-0620	2+40.75	SSI-F	HAT0000-0625	4+19.42	SSI-F	VCP	8	179	1.12%	3552 / 3452
HAT0000-0615	1+68.18	SSI-F	HAT0000-0620	2+40.75	SSI-F	VCP	8	73	0.40%	3452 / 3552
HAT0000-0610	5+03.97	TR-3914	HAT0000-0615	1+68.18	SSI-F	VCP	8	168	2.35%	3551 / 3452
HAT0000-0510	3+65.07	7-14-2	HAT0000-0515	5+86.81	7-14-2	DIP	8	222	13.71%	3551
HAT0000-0505	2+38.66	7-14-2	HAT0000-0510	3+65.07	7-14-2	DIP	8	126	11.16%	3651 / 3551
HAT0000-0270	6+48.58	7-14-2	HAT0000-0505	2+38.66	7-14-2	DIP	8	139	0.47%	3651
HAT0000-0490	2+54.37	AD-7	HAT0000-0495	4+72.37	AD-7	VCP	8	218	18.62%	3551
HAT0000-0485	9+19.83	AD-7	HAT0000-0490	2+54.37	AD-7	VCP	8	244	0.40%	3551
HAT0000-0420	3+60.00	TR-6206	HAT0000-0425	5+09.50	TR-6206	VCP	8	150	0.44%	3651
HAT0000-0415	1+15.00	TR-6206	HAT0000-0420	3+60.00	TR-6206	VCP	8	245	31.30%	3651
HAT0000-0330	0+00.00	TR-6206	HAT0000-0415	1+15.00	TR-6206	VCP	8	115	4.42%	3651
HAT0000-0390	2+65.24	TR-9389	HAT0000-0395	4+24.37	TR-9389	VCP	8	159	0.40%	3650
HAT0000-0380	2+35.00	TR-6206	HAT0000-0385	1+59.00	TR-6206	VCP	8	156	0.50%	3650
** HAT0000-0253	1+00.00	7-14-A	HAT0000-0255	1+00.00	7-14-2	DIP	8	120	7.29%	3651
HAT0000-0165	3+87.34	7-14-2	HAT0000-0170	0+00.00	TR-9271	DIP	8	219	6.34%	3651
** HAT0000-0160	1+03.00	7-14-2	HAT0000-0165	3+87.34	7-14-2	DIP	8	287	3.40%	3651
** HAT0000-0128	UNK	UNK	HAT0000-0130	0+00.00	TR-9688	VCP	8	140	0.00%	3751
** HAT0000-0880	1+00.00	7-14-1-1	HAT0000-0006	4+57.52	7-14-1-2	DIP	8	357	2.57%	3850
EASTER HILL DR										
SUN0430-0870	1+98.90	TR-8934	SUN0430-0875	5+17.90	TR-8934	VCP	8	319	10.30%	3450
EDDY DR										
RED0395-0100	2+22.02	AD-3A	RED0395-0155	3+50.00	AD-3A	VCP	8	350	0.80%	3545
EDGEVIEW DR										
SUN0315-2642	5+92.82	TR-6362	SUN0315-2644	6+26.32	TR-6362	VCP	8	34	1.94%	3550
SUN0315-2640	0+00.00	TR-5448	SUN0315-2642	5+92.82	TR-6362	VCP	8	81	1.94%	3550
SUN0315-2635	3+22.14	TR-6362	SUN0315-2640	0+00.00	TR-5448	VCP	8	232	1.94%	3550
SUN0315-2630	1+13.74	TR-6362	SUN0315-2635	3+22.14	TR-6362	VCP	8	208	8.52%	3550
SUN0315-2625	5+79.00	TR-6362	SUN0315-2630	1+13.74	TR-6362	VCP	8	124	6.04%	3550
EDINGER AV										
RED0105-0055	14+64.56	X-35	RED0105-0060	17+18.56	X-35	VCP	8	254	0.40%	4245
RED0105-0050	12+10.56	X-35	RED0105-0055	14+64.56	X-35	VCP	8	254	0.40%	4245
HAT0070-0000	61+95.00	7-20	HAT0075-0000	0+05.00	7-2A	VCP	24	96	0.20%	4246
HAT0065-0000	56+50.00	7-20	HAT0070-0000	61+95.00	7-20	VCP	24	545	0.20%	4246
HAT0060-0000	50+50.00	7-20	HAT0065-0000	56+50.00	7-20	VCP	24	600	0.20%	4346 / 4246
HAT0055-0000	44+50.00	7-20	HAT0060-0000	50+50.00	7-20	VCP	24	600	0.20%	4346
HAT0050-0000	38+50.00	7-20	HAT0055-0000	44+50.00	7-20	VCP	24	600	0.20%	4346

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
HAT0045-0000	32+50.00	7-20	HAT0050-0000	38+50.00	7-20	VCP	24	600	0.20%	4346
HAT0040-0000	26+50.00	7-20	HAT0045-0000	32+50.00	7-20	VCP	24	600	0.20%	4347 / 4346
HAT0035-0000	20+19.97	7-20	HAT0040-0000	26+50.00	7-20	VCP	24	630	0.20%	4347
HAT0030-0000	19+60.50	7-20	HAT0035-0000	20+19.97	7-20	VCP	24	57	0.20%	4347
EHLEN WY										
SUN0455-0115	2+67.00	AD-2	SUN0455-0140	4+77.00	AD-2	VCP	8	210	0.60%	3747
SUN0455-0110	3+97.95	AD-2	SUN0455-0115	2+67.00	AD-2	VCP	8	267	0.24%	3747
EL CAMINO LN										
SUN0430-2015	3+14.27	AD-5A	SUN0430-2020	5+64.27	AD-5A	VCP	8	250	0.36%	3748
SUN0430-0090	17+08.95	TR-5794	SUN0430-2015	3+14.27	AD-5A	VCP	8	314	0.36%	3748
EL CAMINO REAL										
SUN0315-0410	2+74.00	S-525	SUN0315-0425	2+78.00	S-525	VÇP	8	260	0.40%	3945
SUN0315-0390	0+54.00	RS-671	SUN0315-0395	1+70.00	RS-671	VCP	8	116	0.40%	4046 / 4045
SUN0315-0340	16+94.91	S-136	SUN0315-0345	20+44.91	RS-671	VCP	8	350	0.40%	4046
SUN0315-0335	13+54.61	S-135	SUN0315-0340	16+94.91	S-136	VCP	8	340	0.40%	4046
SUN0315-0332	12+39.61	TSI-1	SUN0315-0335	13+54.61	S-135	VCP	8	115	0.40%	4046
SUN0315-0330	10+91.45	S-135	SUN0315-0332	12+39.61	TSI-1	VCP	8	106	0.40%	4046
SUN0315-0325	7+41.45	S-135	SUN0315-0330	10+91.45	S-135	VCP	8	350	0.40%	4046
SUN0315-0320	5+92.40	S-135	SUN0315-0325	7+41.45	S-135	VCP	8	149	0.40%	4046
SUN0315-0315	3+75.00	S-135	SUN0315-0320	5+92.40	S-135	VCP	8	217	0.40%	4046
SUN0315-0310	2+83.50	S-135	SUN0315-0315	3+75.00	S-135	VCP	8	92	0.38%	4046
* SUN0315-3995	10+32.17	7-36	SUN0315-0310	2+83.50	S-135	VCP	8	278	0.97%	4046
RED0255-0025	3+06.00	S-128	RED0255-0030	5+94.00	S-128	VCP	8	288	0.60%	3845
RED0255-0020	1+69.50	S-123	RED0255-0025	3+06.00	S-128	VCP	8	290	0.60%	3945 / 3845
HAT0175-0025	19+10.00	AD-4	HAT0175-0030	22+24.19	7-4B	VCP	8	315	0.40%	4046
HAT0175-0020	14+60.00	AD-4	HAT0175-0025	19+10.00	AD-4	VCP	8	450	0.32%	4046
HAT0175-0015	10+10.00	AD-4	HAT0175-0020	14+60.00	AD-4	VCP	8	450	0.32%	4047 / 4046
HAT0175-0010	6+77.00	AD-4	HAT0175-0015	10+10.00	AD-4	VCP	8	333	0.32%	4047
HAT0175-0005	1+10.00	AD-4	HAT0175-0010	6+77.00	AD-4	VCP	8	567	0.60%	4147 / 4047
HAT0175-0000	55+05.67	7-2A	HAT0175-0005	1+10.00	AD-4	VCP	8	110	6.06%	4147
EL CARMEN AV										
SUN0635-0045	5+24.73	TR-4122	SUN0635-0047	UNK	TR-4122	VCP	8	139	0.24%	3148
SUN0635-0040	2+60.00	TR-4122	SUN0635-0045	5+24.73	TR-4122	VCP	8	265	0.21%	3147 / 3148
SUN0635-0035	0+12.00	TR-4122	SUN0635-0040	2+60.00	TR-4122	VCP	8	248	0.24%	3147
RED0560-0155	2+50.00	TR-3619	RED0560-0160	4+86.00	TR-3619	VCP	8	236	0.92%	3147
RED0560-0150	1+26.00	TR-3619	RED0560-0155	2+50.00	TR-3619	VCP	8	246	0.44%	3147
EL FINITO WY										
SUN0315-2135	18+03.81	AD-5A	SUN0315-2140	2+27.55	AD-5A	VCP	8	228	1.00%	3749
EL ROY DR										
RED0625-0110	7+00.00	AD-8	RED0625-0115	9+65.00	AD-8	VCP	8	285	6.14%	3449
RED0625-0105	4+00.00	AD-8	RED0625-0110	7+00.00	AD-8	VCP	8	300	6.14%	3449
RED0625-0100	17+61.80	AD-8	RED0625-0105	4+00.00	AD-8	VCP	8	400	3.48%	3449
EL SALVADOR AV										

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0635-0075	3+23.53	TR-4122	SUN0635-0080	2+37.53	TR-4122	VCP	8	324	0.24%	3147
LITE DR										
SUN0465-0065	2+58.76	TR-4658	SUN0465-0070	0+10.00	TR-4658	VCP	8	104	0.72%	3747
SUN0465-0060	0+81.53	TR-4658	SUN0465-0065	2+58.76	TR-4658	VCP	8	259	1.20%	3747
LIZABETH WY										
SUN0315-1300	5+40.00	TR-4179	SUN0315-1305	21+78.02	AD-4	VCP	8	308	0.32%	3747
SUN0315-1295	2+40.00	TR-4130	SUN0315-1300	5+40.00	TR-4179	VCP	8	300	0.32%	3847 / 3747
SUN0315-1290	13+16.02	AD-4	SUN0315-1295	2+40.00	TR-4130	VCP	8	240	0.32%	3847
SUN0315-1285	9+90.09	AD-4	SUN0315-1290	13+16.02	AD-4	VCP	8	326	2.80%	3847
SUN0315-1280	6+61.16	AD-4	SUN0315-1285	9+90.09	AD-4	VCP	8	329	2.40%	3847
SUN0315-1275	3+30.47	AD-4	SUN0315-1280	6+61.16	AD-4	VCP	8	331	2.40%	3847
SUN0315-1130	18+10.90	7-3E	SUN0315-1275	3+30.47	AD-4	VCP	8	331	1.60%	3847
SUN0315-0765	3+88.00	TR-8616	SUN0315-0770	3+88.00	TR-4494	VCP	8	358	0.32%	3946
ELLMAR CIR										
SUN0480-0730	1+60.00	AD-3B	SUN0480-0735	4+60.00	AD-3B	VCP	8	300	1.00%	3648
SUN0480-0610	1+49.08	AD-4	SUN0480-0730	1+60.00	AD-3B	VCP	8	160	4.00%	3648
MBURY DR										
SUN0500-0250	15+53.12	AD-3B	SUN0500-0255	2+90.24	AD-3B	VCP	8	290	1.40%	3547
MERYWOOD RD										
RED0125-0065	8+95.00	RS-463	RED0125-0070	11+64.50	RS-463	VCP	8	270	0.50%	4145 / 4146
RED0125-0060	5+45.00	RS-463	RED0125-0065	8+95.00	RS-463	VCP	8	350	0.60%	4145
RED0125-0055	1+95.00	RS-463	RED0125-0060	5+45.00	RS-463	VCP	8	350	0.60%	4145
MPEROR DR										
SUN0480-0710	3+12.12	TR-3829	SUN0480-0715	5+52.71	TR-3829	VCP	8	235	2.40%	3648
SUN0480-0705	1+46.56	TR-3829	SUN0480-0710	3+12.12	TR-3829	VCP	8	306	1.36%	3648
NDERLE CENTER DR										
RED0380-0070	3+19.00	RS-986	RED0380-0075	5+84.00	RS-986	VCP	8	265	1.32%	3745 / 3645
RED0380-0030	14+42.02	RS-985	RED0380-0070	3+19.00	RS-986	VCP	8	300	2.24%	3745
NRAMADA DR										
SUN0430-2045	3+30.13	AD-5A	SUN0430-2050	4+85.38	AD-5A	VCP	8	155	0.24%	3748
SUN0430-2030	6+06.00	AD5A	SUN0430-2045	3+30.13	AD-5A	VCP	8	330	0.24%	3748
SUN0315-1310	3+01.58	AD-4	SUN0315-1330	1+47.00	AD-4	VCP	8	147	0.40%	3747
PPING WY										
SUN0315-0790	3+00.00	TR-4756	SUN0315-0795	6+10.05	TR-4756	VCP	8	311	0.40%	3947
SUN0315-0785	0+00.00	TR-4756	SUN0315-0790	3+00.00	TR-4756	VCP	8	300	0.40%	3947
SUN0315-0675	2+12.00	TR-4418	SUN0315-0680	4+24.00	TR-4418	VCP	8	212	0.32%	3947
SUN0315-0640	1+96.50	TR-4418	SUN0315-0675	2+12.00	TR-4418	VCP	8	212	0.32%	3947
QUESTRIAN DR										
SUN0430-1095	10+44.45	TR-5840	SUN0430-1100	13+71.03	TR-5840	VCP	8	327	6.40%	3551
SUN0430-1090	7+72.32	TR-5840	SUN0430-1095	10+44.45	TR-5840	VCP	8	272	1.20%	3551
SUN0430-1085	5+97.68	TR-5840	SUN0430-1090	7+72.32	TR-5840	VCP	8	175	1.00%	3551
SUN0430-1080	3+27.07	TR-5840	SUN0430-1085	5+97.68	TR-5840	VCP	8	271	0.80%	3551
SUN0430-1055	0+00.00	TR-5840	SUN0430-1080	3+27.07	TR-5840	VCP	8	327	0.40%	3551

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0430-1060	2+80.34	TR-5840	SUN0430-1065	4+40.30	TR-5840	VCP	8	160	0.96%	3551
SUN0430-1055	0+00.00	TR-5840	SUN0430-1060	2+80.34	TR-5840	VCP	8	280	2.96%	3551
SUN0315-2875	15+13.33	TR-5794	SUN0315-2925	16+87.76	TR-5794	VCP	8	174	5.52%	3551
SUN0315-2870	12+28.65	TR-5794	SUN0315-2875	15+13.33	TR-5794	VCP	8	285	4.48%	3550 / 3551
SUN0315-2865	9+25.00	TR-5794	SUN0315-2870	12+28.65	TR-5794	VCP	8	304	3.56%	3550
SUN0315-2860	6+48.55	TR-5794	SUN0315-2865	9+25.00	TR-5794	VCP	8	276	0.96%	3550
SUN0315-2855	3+25.00	TR-5794	SUN0315-2860	6+48.55	TR-5794	VCP	8	324	0.40%	3550
SUN0315-2850	1+33.48	TR-5009	SUN0315-2855	3+25.00	TR-5794	VCP	8	325	1.12%	3550
ERVIN LN							,			
SUN0480-0635	8+28.50	TR-5576	SUN0480-0640	9+66.98	TR-5576	VCP	8	138	2.16%	3648
SUN0480-0630	6+40.99	TR-5576	SUN0480-0635	8+28.50	TR-5576	VCP	8	188	1.20%	3648
SUN0480-0625	3+81.99	TR-5576	SUN0480-0630	6+40.99	TR-5576	VÇP	8	259	10.00%	3648
SUN0480-0620	1+22.68	TR-5576	SUN0480-0625	3+81.99	TR-5576	VCP	8	259	0.88%	3648
SUN0480-0615	2+88.00	AD-3B	SUN0480-0620	1+22.68	TR-5576	VCP	8	123	0.84%	3648
SUN0480-0610	1+49.08	AD-4	SUN0480-0615	2+88.00	AD-3B	VCP	8	139	0.96%	3648
SUN0480-0605	10+68.37	7-3B	SUN0480-0610	1+49.08	AD-4	VCP	8	149	2.20%	3648
SUN0480-0600	8+02.26	7-3B	SUN0480-0605	10+68.37	7-3B	VCP	8	266	0.32%	3648
SUN0480-0595	5+38.16	7-3B	SUN0480-0600	8+02.26	7-3B	VCP	8	264	0.32%	3647 / 3648
SUN0480-0590	2+74.05	7-3B	SUN0480-0595	5+38.16	7-3B	VCP	8	265	0.32%	3647
* SUN0480-0040	129+82.17	7-39	SUN0480-0590	2+74.05	7-3B	VCP	8	292	0.32%	3647
SUN0480-0355	12+78.65	AD-4	SUN0480-0360	14+82.74	AD-3B	VCP	8	204	0.60%	3647
SUN0480-0350	10+06.65	AD-3B	SUN0480-0355	12+78.65	AD-4	VCP	8	272	0.60%	3647
SUN0480-0345	5+31.99	AD-3B	SUN0480-0350	10+06.65	AD-3B	VCP	8	481	1.80%	3647
ESPANITA ST										
SUN0635-0050	2+25.00	TR-4122	SUN0635-0055	4+50.79	TR-4122	VCP	8	226	1.20%	3148
SUN0635-0045	5+24.73	TR-4122	SUN0635-0050	2+25.00	TR-4122	VCP	8	227	0.92%	3148
ESPLANADE AV										
SUN0415-0155	41+47.02	16-32	SUN0415-0160	44+32.86	7-3B	VCP	8	286	1.32%	3547
SUN0415-0150	38+69.02	7-3B	SUN0415-0155	41+47.02	16-32	VCP	8	278	1.32%	3547
SUN0415-0145	35+76.02	7-3B	SUN0415-0150	38+69.02	7-3B	VCP	8	293	1.32%	3547
SUN0415-0140	32+50.21	7-3B	SUN0415-0145	35+76.02	7-3B	VCP	8	326	1.32%	3547
SUN0415-0135	29+50.00	7-3B	SUN0415-0140	32+50.21	7-3B	VCP	8	300	2.40%	3547
SUN0415-0130	24+14.90	7-3B	SUN0415-0135	29+50.00	7-3B	VCP	8	535	0.32%	3547
SUN0415-0125	17+25.42	7-3B	SUN0415-0130	24+14.90	7-3B	VCP	8	372	0.32%	3647 / 3547
SUN0415-0120	17+25.42	7-3B	SUN0415-0125	17+25.42	7-3B	VCP	8	318	0.32%	3647
SUN0415-0115	13+00.00	7-3B	SUN0415-0120	17+25.42	7-3B	VCP	8	425	0.32%	3647
SUN0415-0110	8+75.00	7-3B	SUN0415-0115	13+00.00	7-3B	VCP	8	425	1.08%	3647
SUN0415-0105	4+50.00	7-3B	SUN0415-0110	8+75.00	7-3B	VCP	8	425	1.08%	3647
SUN0415-0100	95+43.95	7-3B	SUN0415-0105	4+50.00	7-3B	VCP	8	422	1.08%	3647
ESPLANADE ST										
RED0585-0025	10+37.55	AD-6	RED0585-0030	12+52.50	AD-6	VCP	8	215	0.90%	3247
RED0585-0020	8+56.80	AD-6	RED0585-0025	10+37.55	AD-6	VCP	8	181	0.40%	3247
RED0585-0015	6+98.80	AD-6	RED0585-0020	8+56.80	AD-6	VCP	8	158	0.40%	3247

3+61.65 0+56.00 289+12.30 0+13.00	AD-6 AD-6 7-4-1 TR-4661	RED0585-0015 RED0585-0010 RED0585-0005	6+98.80 3+61.65 0+56.00	AD-6 AD-6	VCP VCP	8	337 306	0.40% 1.68%	3247 3347 / 3247
289+12.30 0+13.00 1+64.00	7-4-1	RED0585-0005			VCP	8	306	1 68%	22/7/22/
0+13.00 1+64.00			0+56.00				300	1.0070	3341 / 324
1+64.00	TR-4661	CUNO245 0755		AD-6	VCP	8	54	1.26%	3347
1+64.00	TR-4661	CLINIO24E OZEE							
		SUN0315-0755	1+68.00	TR-4661	VCP	8	155	0.28%	3946
	TR-4186	RED0420-0065	2+96.00	TR-4186	VCP	8	132	2.00%	3646
7+25.00	TR-4186	RED0420-0060	1+64.00	TR-4186	VCP	8	164	2.00%	3646
2+00.00	TR-3612	RED0390-0520	4+01.48	TR-3612	VCP	8	198	0.50%	3545
1+33.15	TR-3612	RED0390-0515	2+00.00	TR-3612	VCP	8	196	0.50%	3545
2+76.00	TR-3697	RED0390-0475	5+52.00	TR-3697	VÇP	8	276	0.68%	3545
0+00.00	TR-3612	RED0390-0445	1+33.15	TR-3612	VCP	8	132	0.60%	3545
7+48.81	AD-3A	RED0390-0440	0+00.00	TR-3612	VCP	8	322	1.23%	3545
4+68.81	AD-3A	RED0390-0435	7+48.81	AD-3A	VCP	8	280	0.60%	3545
1+01.40	AD-3A	RED0390-0430	4+68.81	AD-3A	VCP	8	333	0.60%	3545
7+26.50	AD-3A	RED0390-0425	1+01.40		VCP		142	2.00%	3545
3+56.37	AD-3B	SUN0500-0340	3+50.00	AD-4	VCP	8	350	1.40%	3647
		SUN0500-0285			VCP				3547
		SUN0500-0280			VCP				3547
									3547
									3547
									3547
		SUN0500-0260							3547
									3547
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									3547
									3647
									3647
2130.73	710 1	30110100 0310	2171.33	710 30	VCI	J	2,1	0.0070	3047
0+00 00	AD-5A	SUN0455-0085	2+23 67	TR-3793	VCP	8	54	1 66%	3747
									3747
		1							3747
									3747
T1//.4T	11(3/33	30,10,733,0033	0.00.00	AD 3A	V C1	J.	1/7	1.00/0	3/4/
4+26.09	RS-250	RED0320-0245	2+26.00	RS-260	VCP	Q	230	0 80%	3845
7120.03	15 233	111111111111111111111111111111111111111	2 1 20.00	113 200	V CI	J .	230	0.0070	3043
8+86 NO	AD-4	HAT0290-0120	11+02 21	ΔD-4	VCD	Q	306	1 20%	3849
									3849
	1+33.15 2+76.00 0+00.00 7+48.81 4+68.81	1+33.15 TR-3612 2+76.00 TR-3697 0+00.00 TR-3612 7+48.81 AD-3A 4+68.81 AD-3A 1+01.40 AD-3A 7+26.50 AD-3A 3+56.37 AD-3B 2+90.24 AD-3B 2+61.38 AD-3B 5+11.22 AD-3B 5+11.22 AD-3B 2+61.38 AD-3B 2+61.38 AD-3B 2+90.24 AD-3B 2+61.38 AD-3B 2+90.24 AD-3B 12+27.30 AD-3B 12+27.30 AD-3B 9+77.30 AD-3B 8+28.17 AD-3B 8+28.17 AD-3B 5+31.51 AD-3B 2+44.51 AD-3B 3+51.47 AD-3B 3+51.47 AD-3B 2+71.35	1+33.15 TR-3612 RED0390-0515 2+76.00 TR-3697 RED0390-0445 0+00.00 TR-3612 RED0390-0445 7+48.81 AD-3A RED0390-0440 4+68.81 AD-3A RED0390-0435 1+01.40 AD-3A RED0390-0430 7+26.50 AD-3A RED0390-0425 3+56.37 AD-3B SUN0500-0340 2+90.24 AD-3B SUN0500-0285 2+61.38 AD-3B SUN0500-0275 5+11.22 AD-3B SUN0500-0275 5+11.22 AD-3B SUN0500-0270 2+61.38 AD-3B SUN0500-0270 2+61.38 AD-3B SUN0500-0265 2+90.24 AD-3B SUN0500-0260 12+27.30 AD-3B SUN0500-0215 9+77.30 AD-3B SUN0500-0210 8+28.17 AD-3B SUN0500-0115 5+31.51 AD-3B SUN0500-0105 3+51.47 AD-3B SUN0500-0100 2+71.35 AD-3B SUN0480-0345 2+50.73 AD-4 SUN0455-0085 3+83.96	1+33.15 TR-3612 RED0390-0515 2+00.00 2+76.00 TR-3697 RED0390-0475 5+52.00 0+00.00 TR-3612 RED0390-0445 1+33.15 7+48.81 AD-3A RED0390-0440 0+00.00 4+68.81 AD-3A RED0390-0435 7+48.81 1+01.40 AD-3A RED0390-0430 4+68.81 7+26.50 AD-3A RED0390-0425 1+01.40 3+56.37 AD-3B SUN0500-0285 2+50.00 2+90.24 AD-3B SUN0500-0285 2+50.00 2+61.38 AD-3B SUN0500-0275 1+50.00 5+11.22 AD-3B SUN0500-0270 5+81.22 2+61.38 AD-3B SUN0500-0265 5+11.22 2+90.24 AD-3B SUN0500-0260 2+61.38 12+27.30 AD-3B SUN0500-0215 14+77.30 9+77.30 AD-3B SUN0500-0210 12+27.30 8+28.17 AD-3B SUN0500-0110 8+28.17 2+44.51 AD-3B SUN0500-0105 </td <td>1+33.15 TR-3612 RED0390-0515 2+00.00 TR-3612 2+76.00 TR-3697 RED0390-0475 5+52.00 TR-3697 0+00.00 TR-3612 RED0390-0445 1+33.15 TR-3612 7+48.81 AD-3A RED0390-0440 0+00.00 TR-3612 4+68.81 AD-3A RED0390-0435 7+48.81 AD-3A 1+01.40 AD-3A RED0390-0425 1+01.40 AD-3A 7+26.50 AD-3A RED0390-0425 1+01.40 AD-3A 3+56.37 AD-3B SUN0500-0340 3+50.00 AD-4 2+90.24 AD-3B SUN0500-0285 2+50.00 AD-3B 2+61.38 AD-3B SUN0500-0280 2+00.00 AD-3B 5+11.22 AD-3B SUN0500-0275 1+50.00 AD-3B 5+11.22 AD-3B SUN0500-0265 5+11.22 AD-3B 2+90.24 AD-3B SUN0500-0265 5+11.22 AD-3B 2+90.24 AD-3B SUN0500-0266 2+61.38 AD-3B 12+27.30 AD-3B SUN0500-0215 14+77.30 AD-3B</td> <td>1+33.15 TR-3612 RED0390-0515 2+00.00 TR-3612 VCP 2+76.00 TR-3697 RED0390-0475 5+52.00 TR-3697 VCP 0+00.00 TR-3612 RED0390-0445 1+33.15 TR-3612 VCP 7+48.81 AD-3A RED0390-0445 1+33.15 TR-3612 VCP 4+68.81 AD-3A RED0390-0445 1+33.15 TR-3612 VCP 1+01.40 AD-3A RED0390-0435 7+48.81 AD-3A VCP 1+01.40 AD-3A RED0390-0430 4+68.81 AD-3A VCP 7+26.50 AD-3A RED0390-0425 1+01.40 AD-3A VCP 3+56.37 AD-3B SUN0500-0245 2+50.00 AD-3B VCP 2+90.24 AD-3B SUN0500-0285 2+50.00 AD-3B VCP 2+61.38 AD-3B SUN0500-0275 1+50.00 AD-3B VCP 5+11.22 AD-3B SUN0500-0275 5+81.22 AD-3B VCP 5+11.22 AD-3B SUN0500-0270 5+81.22 AD-3B VCP 2+61.38 AD-3B SUN0500-0265 5+11.22 AD-3B VCP 2+90.24 AD-3B SUN0500-0265 5+11.22 AD-3B VCP 12+27.30 AD-3B SUN0500-0260 2+61.38 AD-3B VCP 9+77.30 AD-3B SUN0500-0215 14+77.30 AD-3B VCP 9+77.30 AD-3B SUN0500-0215 12+27.30 AD-3B VCP 8+28.17 AD-3B SUN0500-0216 12+27.30 AD-3B VCP 5+31.51 AD-3B SUN0500-0115 9+77.30 AD-3B VCP 5+31.51 AD-3B SUN0500-0116 8+28.17 AD-3B VCP 2+44.51 AD-3B SUN0500-0116 8+28.17 AD-3B VCP 2+71.35 AD-3B SUN0500-0100 2+44.51 AD-3B VCP 2+71.35 AD-3B SUN0500-0100 AD-5A SUN0480-0345 5+31.99 AD-3B VCP 2+71.35 AD-3B SUN0500-0100 AD-5A SUN0480-0345 5+31.99 AD-3B VCP 2+71.35 AD-3B SUN0500-0100 AD-5A SUN0455-0055 AB-39.96 AD-2 VCP 2+71.35 AD-3B SUN0455-0055 AB-39.96 AD-2 VCP 2+70.00 AD-5A SUN0455-0055 AB-39.96 AD-2 VCP 2+70.41 TR-3793 SUN0455-0055 AB-39.96 AD-2 VCP 2+70.42 AD-4B AD-4B</td> <td>1+33.15 TR-3612 RED0390-0515 2+00.00 TR-3612 VCP 8 2+76.00 TR-3697 RED0390-0475 5+52.00 TR-3697 VCP 8 0+00.00 TR-3612 RED0390-0445 1+33.15 TR-3612 VCP 8 7+48.81 AD-3A RED0390-0445 1+33.15 TR-3612 VCP 8 4+68.81 AD-3A RED0390-0435 7+48.81 AD-3A VCP 8 1+01.40 AD-3A RED0390-0435 7+48.81 AD-3A VCP 8 1+01.40 AD-3A RED0390-0430 4+68.81 AD-3A VCP 8 7+26.50 AD-3A RED0390-0425 1+01.40 AD-3A VCP 8 3+56.37 AD-3B SUN0500-0340 3+50.00 AD-3A VCP 8 2+90.24 AD-3B SUN0500-0285 2+50.00 AD-3B VCP 8 2+61.38 AD-3B SUN0500-0275 1+50.00 AD-3B VCP 8 5+11.22 AD-3B SUN0500-0275 1+50.00 AD-3B VCP 8 5+11.22 AD-3B SUN0500-0270 5+81.22 AD-3B VCP 8 2+90.24 AD-3B SUN0500-0265 5+11.22 AD-3B VCP 8 2+90.24 AD-3B SUN0500-0265 5+11.22 AD-3B VCP 8 2+90.24 AD-3B SUN0500-0260 2+61.38 AD-3B VCP 8 2+90.24 AD-3B SUN0500-0260 2+61.38 AD-3B VCP 8 3+77.30 AD-3B SUN0500-0215 14+77.30 AD-3B VCP 8 3+28.17 AD-3B SUN0500-0215 14+77.30 AD-3B VCP 8 3+28.17 AD-3B SUN0500-0115 9+77.30 AD-3B VCP 8 3+24.51 AD-3B SUN0500-0115 9+77.30 AD-3B VCP 8 3+24.51 AD-3B SUN0500-0115 9+77.30 AD-3B VCP 8 3+25.17 AD-3B SUN0500-0105 5+31.51 AD-3B VCP 8 3+51.47 AD-3B SUN0500-0105 5+31.51 AD-3B VCP 8 3+31.51 AD-3B SUN0500-0105 5+31.51 AD-3B VCP 8 3+31.51 A</td> <td>1+33.15 TR-3612 RED0390-0515 2+00.00 TR-3612 VCP 8 196 2+76.00 TR-3697 RED0390-0475 5+52.00 TR-3697 VCP 8 276 0+00.00 TR-3612 RED0390-0445 1+33.15 TR-3612 VCP 8 132 7+48.81 AD-3A RED0390-0440 0+00.00 TR-3612 VCP 8 322 4+68.81 AD-3A RED0390-0435 7+48.81 AD-3A VCP 8 280 1+01.40 AD-3A RED0390-0435 7+48.81 AD-3A VCP 8 280 1+01.40 AD-3A RED0390-0430 4+68.81 AD-3A VCP 8 142 3+56.37 AD-3B SUN0500-0245 1+01.40 AD-3A VCP 8 142 3+56.37 AD-3B SUN0500-0245 2+50.00 AD-3B VCP 8 250 2+61.38 AD-3B SUN0500-0280 2+00.00 AD-3B VCP 8 250 2+61.38 AD-3B SUN0500-0275 1+50.00 AD-3B VCP 8 150 5+11.22 AD-3B SUN0500-0275 5+81.22 AD-3B VCP 8 70 2+61.38 AD-3B SUN0500-0265 5+11.22 AD-3B VCP 8 250 2+90.24 AD-3B SUN0500-0265 5+11.22 AD-3B VCP 8 250 2+90.24 AD-3B SUN0500-0265 5+11.22 AD-3B VCP 8 250 2+90.24 AD-3B SUN0500-0265 5+11.22 AD-3B VCP 8 250 2+97.30 AD-3B SUN0500-0260 2+61.38 AD-3B VCP 8 250 2+97.30 AD-3B SUN0500-0215 14+77.30 AD-3B VCP 8 250 3+244.51 AD-3B SUN0500-0215 14+77.30 AD-3B VCP 8 250 3+244.51 AD-3B SUN0500-0115 9+77.30 AD-3B VCP 8 250 3+244.51 AD-3B SUN0500-0115 9+77.30 AD-3B VCP 8 250 3+244.51 AD-3B SUN0500-0110 8+28.17 AD-3B VCP 8 245 2+71.35 AD-3B SUN0500-0100 2+44.51 AD-3B VCP 8 250 3+848.09 AD-4 HAT0290-0120 11+92.21 AD-4 VCP 8 306</td> <td>1+33.15 TR-3612 RED0390-0515 2+00.00 TR-3612 VCP 8 196 0.50% 2+76.00 TR-3697 RED0390-0475 5+52.00 TR-3697 VCP 8 276 0.68% 0+00.00 TR-3612 RED0390-0445 5+52.00 TR-3697 VCP 8 276 0.68% 0+00.00 TR-3612 RED0390-0440 0+00.00 TR-3612 VCP 8 322 1.23% 4+68.81 AD-3A RED0390-0435 7+48.81 AD-3A VCP 8 280 0.60% 1+01.40 AD-3A RED0390-0435 7+48.81 AD-3A VCP 8 280 0.60% 1+01.40 AD-3A RED0390-0435 1+01.40 AD-3A VCP 8 333 0.60% 7+26.50 AD-3A RED0390-0425 1+01.40 AD-3A VCP 8 142 2.00% 14-01.40 AD-3A RED0390-0425 1+01.40 AD-3A VCP 8 142 2.00% 14-01.40 AD-3A VCP 8 142 2.00% 14-01.40 AD-3B SUN0500-0285 2+50.00 AD-3B VCP 8 250 1.00% 14-01.40 AD-3B SUN0500-0285 2+50.00 AD-3B VCP 8 250 1.00% 14-01.22 AD-3B SUN0500-0275 1+50.00 AD-3B VCP 8 200 0.40% 5+11.22 AD-3B SUN0500-0275 5+81.22 AD-3B VCP 8 70 5.00% 2+61.38 AD-3B SUN0500-0265 5+11.22 AD-3B VCP 8 250 2.20% 2+90.24 AD-3B SUN0500-0265 5+11.22 AD-3B VCP 8 250 2.20% 2+90.24 AD-3B SUN0500-0265 5+11.22 AD-3B VCP 8 250 2.20% 2+90.24 AD-3B SUN0500-0265 5+11.22 AD-3B VCP 8 250 2.20% 2+90.24 AD-3B SUN0500-0265 5+11.22 AD-3B VCP 8 250 2.20% 2+90.24 AD-3B SUN0500-0265 5+11.22 AD-3B VCP 8 250 0.40% 9+77.30 AD-3B SUN0500-0215 14+77.30 AD-3B VCP 8 250 0.40% 9+77.30 AD-3B SUN0500-0215 14+77.30 AD-3B VCP 8 250 0.40% 9+77.30 AD-3B SUN0500-0215 14+77.30 AD-3B VCP 8 250 0.40% 12+27.30 AD-3B SUN0500-0115 9+77.30 AD-3B VCP 8 250 0.40% 12+27.30 AD-3B SUN0500-0115 9+77.30 AD-3B VCP 8 250 0.40% 12+27.30 AD-3B SUN0500-0100 2+44.51 AD-3B VCP 8 245 0.40% 14+11 AD-3B SUN0500-0100 2+44.51 AD-3B VCP 8 245 0.40% 14+11 AD-3B SUN0500-0100 2+44.51 AD-3B VCP 8 245 0.40% 14+11 AD-3B SUN0500-0100 2+44.51 AD-3B VCP 8 245 0.40% 14+11 AD-3B V</td>	1+33.15 TR-3612 RED0390-0515 2+00.00 TR-3612 2+76.00 TR-3697 RED0390-0475 5+52.00 TR-3697 0+00.00 TR-3612 RED0390-0445 1+33.15 TR-3612 7+48.81 AD-3A RED0390-0440 0+00.00 TR-3612 4+68.81 AD-3A RED0390-0435 7+48.81 AD-3A 1+01.40 AD-3A RED0390-0425 1+01.40 AD-3A 7+26.50 AD-3A RED0390-0425 1+01.40 AD-3A 3+56.37 AD-3B SUN0500-0340 3+50.00 AD-4 2+90.24 AD-3B SUN0500-0285 2+50.00 AD-3B 2+61.38 AD-3B SUN0500-0280 2+00.00 AD-3B 5+11.22 AD-3B SUN0500-0275 1+50.00 AD-3B 5+11.22 AD-3B SUN0500-0265 5+11.22 AD-3B 2+90.24 AD-3B SUN0500-0265 5+11.22 AD-3B 2+90.24 AD-3B SUN0500-0266 2+61.38 AD-3B 12+27.30 AD-3B SUN0500-0215 14+77.30 AD-3B	1+33.15 TR-3612 RED0390-0515 2+00.00 TR-3612 VCP 2+76.00 TR-3697 RED0390-0475 5+52.00 TR-3697 VCP 0+00.00 TR-3612 RED0390-0445 1+33.15 TR-3612 VCP 7+48.81 AD-3A RED0390-0445 1+33.15 TR-3612 VCP 4+68.81 AD-3A RED0390-0445 1+33.15 TR-3612 VCP 1+01.40 AD-3A RED0390-0435 7+48.81 AD-3A VCP 1+01.40 AD-3A RED0390-0430 4+68.81 AD-3A VCP 7+26.50 AD-3A RED0390-0425 1+01.40 AD-3A VCP 3+56.37 AD-3B SUN0500-0245 2+50.00 AD-3B VCP 2+90.24 AD-3B SUN0500-0285 2+50.00 AD-3B VCP 2+61.38 AD-3B SUN0500-0275 1+50.00 AD-3B VCP 5+11.22 AD-3B SUN0500-0275 5+81.22 AD-3B VCP 5+11.22 AD-3B SUN0500-0270 5+81.22 AD-3B VCP 2+61.38 AD-3B SUN0500-0265 5+11.22 AD-3B VCP 2+90.24 AD-3B SUN0500-0265 5+11.22 AD-3B VCP 12+27.30 AD-3B SUN0500-0260 2+61.38 AD-3B VCP 9+77.30 AD-3B SUN0500-0215 14+77.30 AD-3B VCP 9+77.30 AD-3B SUN0500-0215 12+27.30 AD-3B VCP 8+28.17 AD-3B SUN0500-0216 12+27.30 AD-3B VCP 5+31.51 AD-3B SUN0500-0115 9+77.30 AD-3B VCP 5+31.51 AD-3B SUN0500-0116 8+28.17 AD-3B VCP 2+44.51 AD-3B SUN0500-0116 8+28.17 AD-3B VCP 2+71.35 AD-3B SUN0500-0100 2+44.51 AD-3B VCP 2+71.35 AD-3B SUN0500-0100 AD-5A SUN0480-0345 5+31.99 AD-3B VCP 2+71.35 AD-3B SUN0500-0100 AD-5A SUN0480-0345 5+31.99 AD-3B VCP 2+71.35 AD-3B SUN0500-0100 AD-5A SUN0455-0055 AB-39.96 AD-2 VCP 2+71.35 AD-3B SUN0455-0055 AB-39.96 AD-2 VCP 2+70.00 AD-5A SUN0455-0055 AB-39.96 AD-2 VCP 2+70.41 TR-3793 SUN0455-0055 AB-39.96 AD-2 VCP 2+70.42 AD-4B	1+33.15 TR-3612 RED0390-0515 2+00.00 TR-3612 VCP 8 2+76.00 TR-3697 RED0390-0475 5+52.00 TR-3697 VCP 8 0+00.00 TR-3612 RED0390-0445 1+33.15 TR-3612 VCP 8 7+48.81 AD-3A RED0390-0445 1+33.15 TR-3612 VCP 8 4+68.81 AD-3A RED0390-0435 7+48.81 AD-3A VCP 8 1+01.40 AD-3A RED0390-0435 7+48.81 AD-3A VCP 8 1+01.40 AD-3A RED0390-0430 4+68.81 AD-3A VCP 8 7+26.50 AD-3A RED0390-0425 1+01.40 AD-3A VCP 8 3+56.37 AD-3B SUN0500-0340 3+50.00 AD-3A VCP 8 2+90.24 AD-3B SUN0500-0285 2+50.00 AD-3B VCP 8 2+61.38 AD-3B SUN0500-0275 1+50.00 AD-3B VCP 8 5+11.22 AD-3B SUN0500-0275 1+50.00 AD-3B VCP 8 5+11.22 AD-3B SUN0500-0270 5+81.22 AD-3B VCP 8 2+90.24 AD-3B SUN0500-0265 5+11.22 AD-3B VCP 8 2+90.24 AD-3B SUN0500-0265 5+11.22 AD-3B VCP 8 2+90.24 AD-3B SUN0500-0260 2+61.38 AD-3B VCP 8 2+90.24 AD-3B SUN0500-0260 2+61.38 AD-3B VCP 8 3+77.30 AD-3B SUN0500-0215 14+77.30 AD-3B VCP 8 3+28.17 AD-3B SUN0500-0215 14+77.30 AD-3B VCP 8 3+28.17 AD-3B SUN0500-0115 9+77.30 AD-3B VCP 8 3+24.51 AD-3B SUN0500-0115 9+77.30 AD-3B VCP 8 3+24.51 AD-3B SUN0500-0115 9+77.30 AD-3B VCP 8 3+25.17 AD-3B SUN0500-0105 5+31.51 AD-3B VCP 8 3+51.47 AD-3B SUN0500-0105 5+31.51 AD-3B VCP 8 3+31.51 AD-3B SUN0500-0105 5+31.51 AD-3B VCP 8 3+31.51 A	1+33.15 TR-3612 RED0390-0515 2+00.00 TR-3612 VCP 8 196 2+76.00 TR-3697 RED0390-0475 5+52.00 TR-3697 VCP 8 276 0+00.00 TR-3612 RED0390-0445 1+33.15 TR-3612 VCP 8 132 7+48.81 AD-3A RED0390-0440 0+00.00 TR-3612 VCP 8 322 4+68.81 AD-3A RED0390-0435 7+48.81 AD-3A VCP 8 280 1+01.40 AD-3A RED0390-0435 7+48.81 AD-3A VCP 8 280 1+01.40 AD-3A RED0390-0430 4+68.81 AD-3A VCP 8 142 3+56.37 AD-3B SUN0500-0245 1+01.40 AD-3A VCP 8 142 3+56.37 AD-3B SUN0500-0245 2+50.00 AD-3B VCP 8 250 2+61.38 AD-3B SUN0500-0280 2+00.00 AD-3B VCP 8 250 2+61.38 AD-3B SUN0500-0275 1+50.00 AD-3B VCP 8 150 5+11.22 AD-3B SUN0500-0275 5+81.22 AD-3B VCP 8 70 2+61.38 AD-3B SUN0500-0265 5+11.22 AD-3B VCP 8 250 2+90.24 AD-3B SUN0500-0265 5+11.22 AD-3B VCP 8 250 2+90.24 AD-3B SUN0500-0265 5+11.22 AD-3B VCP 8 250 2+90.24 AD-3B SUN0500-0265 5+11.22 AD-3B VCP 8 250 2+97.30 AD-3B SUN0500-0260 2+61.38 AD-3B VCP 8 250 2+97.30 AD-3B SUN0500-0215 14+77.30 AD-3B VCP 8 250 3+244.51 AD-3B SUN0500-0215 14+77.30 AD-3B VCP 8 250 3+244.51 AD-3B SUN0500-0115 9+77.30 AD-3B VCP 8 250 3+244.51 AD-3B SUN0500-0115 9+77.30 AD-3B VCP 8 250 3+244.51 AD-3B SUN0500-0110 8+28.17 AD-3B VCP 8 245 2+71.35 AD-3B SUN0500-0100 2+44.51 AD-3B VCP 8 250 3+848.09 AD-4 HAT0290-0120 11+92.21 AD-4 VCP 8 306	1+33.15 TR-3612 RED0390-0515 2+00.00 TR-3612 VCP 8 196 0.50% 2+76.00 TR-3697 RED0390-0475 5+52.00 TR-3697 VCP 8 276 0.68% 0+00.00 TR-3612 RED0390-0445 5+52.00 TR-3697 VCP 8 276 0.68% 0+00.00 TR-3612 RED0390-0440 0+00.00 TR-3612 VCP 8 322 1.23% 4+68.81 AD-3A RED0390-0435 7+48.81 AD-3A VCP 8 280 0.60% 1+01.40 AD-3A RED0390-0435 7+48.81 AD-3A VCP 8 280 0.60% 1+01.40 AD-3A RED0390-0435 1+01.40 AD-3A VCP 8 333 0.60% 7+26.50 AD-3A RED0390-0425 1+01.40 AD-3A VCP 8 142 2.00% 14-01.40 AD-3A RED0390-0425 1+01.40 AD-3A VCP 8 142 2.00% 14-01.40 AD-3A VCP 8 142 2.00% 14-01.40 AD-3B SUN0500-0285 2+50.00 AD-3B VCP 8 250 1.00% 14-01.40 AD-3B SUN0500-0285 2+50.00 AD-3B VCP 8 250 1.00% 14-01.22 AD-3B SUN0500-0275 1+50.00 AD-3B VCP 8 200 0.40% 5+11.22 AD-3B SUN0500-0275 5+81.22 AD-3B VCP 8 70 5.00% 2+61.38 AD-3B SUN0500-0265 5+11.22 AD-3B VCP 8 250 2.20% 2+90.24 AD-3B SUN0500-0265 5+11.22 AD-3B VCP 8 250 2.20% 2+90.24 AD-3B SUN0500-0265 5+11.22 AD-3B VCP 8 250 2.20% 2+90.24 AD-3B SUN0500-0265 5+11.22 AD-3B VCP 8 250 2.20% 2+90.24 AD-3B SUN0500-0265 5+11.22 AD-3B VCP 8 250 2.20% 2+90.24 AD-3B SUN0500-0265 5+11.22 AD-3B VCP 8 250 0.40% 9+77.30 AD-3B SUN0500-0215 14+77.30 AD-3B VCP 8 250 0.40% 9+77.30 AD-3B SUN0500-0215 14+77.30 AD-3B VCP 8 250 0.40% 9+77.30 AD-3B SUN0500-0215 14+77.30 AD-3B VCP 8 250 0.40% 12+27.30 AD-3B SUN0500-0115 9+77.30 AD-3B VCP 8 250 0.40% 12+27.30 AD-3B SUN0500-0115 9+77.30 AD-3B VCP 8 250 0.40% 12+27.30 AD-3B SUN0500-0100 2+44.51 AD-3B VCP 8 245 0.40% 14+11 AD-3B SUN0500-0100 2+44.51 AD-3B VCP 8 245 0.40% 14+11 AD-3B SUN0500-0100 2+44.51 AD-3B VCP 8 245 0.40% 14+11 AD-3B SUN0500-0100 2+44.51 AD-3B VCP 8 245 0.40% 14+11 AD-3B V

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
HAT0290-0105	2+70.09	AD-4	HAT0290-0110	5+78.09	AD-3A	VCP	8	308	1.20%	3849
HAT0290-0015	2+90.00	AD-4	HAT0290-0105	2+70.09	AD-4	VCP	8	270	0.40%	3849
HAT0255-0335	7+71.43	AD-4	HAT0255-0340	12+05.71	AD-4	VCP	8	434	1.20%	3948 / 3949
HAT0255-0330	3+29.00	AD-3A	HAT0255-0335	7+71.43	AD-4	VCP	8	442	0.60%	3948
HAT0255-0305	2+55.97	AD-4	HAT0255-0330	3+29.00	AD-3A	VCP	8	329	2.10%	3948
RHAVEN AV										
SUN0480-1075	7+91.53	7-4C	SUN0480-1315	0+20.00	7-4C	VCP	8	20	16.05%	3548
SUN0480-1080	9+75.00	7-4C	SUN0480-1085	13+18.92	7-4C	VCP	8	344	2.40%	3548
SUN0480-1075	7+91.53	7-4C	SUN0480-1080	9+75.00	7-4C	VCP	8	183	1.00%	3548
SUN0480-1070	5+62.50	7-4C	SUN0480-1075	7+91.53	7-4C	VÇP	8	229	1.00%	3548
SUN0480-1065	1+50.13	7-4C	SUN0480-1070	5+62.50	7-4C	VCP	8	413	1.00%	3547 / 3548
SUN0480-0105	168+30.74	7-39	SUN0480-1065	1+50.13	7-4C	VCP	8	54	1.00%	3547
RED0485-0090	1+79.65	TR-3861	SUN0480-0105	168+30.74	7-39	VCP	10	173	1.00%	3547
RED0485-0085	4+49.71	TR-3861	RED0485-0090	1+79.65	TR-3861	VCP	10	270	1.00%	3547
RED0485-0080	7+41.08	TR-3861	RED0485-0085	4+49.71	TR-3861	VCP	10	291	1.75%	3447 / 3547
RED0485-0075	10+32.60	TR-3861	RED0485-0080	7+41.08	TR-3861	VCP	10	292	0.77%	3447
RED0485-0070	13+15.11	TR-3861	RED0485-0075	10+32.60	TR-3861	VCP	10	283	3.26%	3447
RED0485-0065	15+59.52	TR-3861	RED0485-0070	13+15.11	TR-3861	VCP	10	244	2.66%	3447
SUN0525-0000	180+80.50	7-6-7	RED0485-0065	15+59.52	TR-3861	VCP	10	31	24.56%	3547 / 3447
RED0485-0045	5+61.42	TR-3545	RED0485-0050	8+36.11	TR-3545	VCP	10	271	0.60%	3447
RED0485-0040	2+96.08	TR-3545	RED0485-0045	5+61.42	TR-3545	VCP	10	265	0.60%	3446 / 3447
RED0485-0035	93+21.37	SSI-E	RED0485-0040	2+96.08	TR-3545	VCP	10	306	0.60%	3446
RED0485-0030	92+43.42	SSI-E	RED0485-0035	93+21.37	SSI-E	VCP	10	80	2.00%	3446
RED0485-0025	90+52.00	4-17	RED0485-0030	92+43.42	SSI-E	VCP	10	187	1.00%	3446
RED0485-0020	88+01.49	4-17	RED0485-0025	90+52.00	4-17	VCP	10	247	1.00%	3446
RED0485-0015	85+18.00	4-17	RED0485-0020	88+01.49	4-17	VCP	10	279	0.48%	3446
RED0485-0010	84+00.00	SSI-E	RED0485-0015	85+18.00	4-17	VCP	10	114	0.48%	3446
RED0485-0005	80+16.84	SSI-E	RED0485-0010	84+00.00	SSI-E	VCP	10	283	0.46%	3446
RED0485-0000	166+08.03	7-41	RED0485-0005	80+16.84	SSI-E	VCP	21	6	6.12%	3446
RED0390-0355	70+75.00	SSI-E	RED0390-0360	75+10.64	SSI-E	VCP	18	436	0.28%	3546
RED0390-0353	69+36.00	SSI-E	RED0390-0355	70+75.00	SSI-E	VCP	18	139	0.20%	3545 / 3546
RED0390-0350	66+50.00	SSI-E	RED0390-0353	69+36.00	SSI-E	VCP	18	315	0.20%	3545
RED0390-0345	64+27.00	2-17	RED0390-0350	66+50.00	SSI-E	VCP	18	192	0.20%	3545
RED0390-0340	62+00.00	SSI-E	RED0390-0345	64+27.00	2-17	VCP	18	223	0.20%	3545
RED0390-0335	61+10.00	2-17	RED0390-0340	62+00.00	SSI-E	VCP	18	86	0.20%	3545
RED0390-0330	58+04.00	AD-3A	RED0390-0335	61+10.00	2-17	VCP	18	302	0.20%	3545
RED0390-0325	57+50.00	SSI-E	RED0390-0330	58+04.00	AD-3A	VCP	18	50	0.20%	3545
RED0390-0320	55+42.00	2-17	RED0390-0325	57+50.00	SSI-E	VCP	18	204	0.20%	3545
RED0390-0095	183+33.00	7-4-1	RED0390-0320	55+42.00	2-17	VCP	18	250	0.20%	3545
RHAVEN EXT										
SUN0480-1120	13+71.00	AD-1	SUN0480-1125	0+00.00	AD-1	VCP	8	92	0.32%	3448
SUN0480-1115	9+39.00	AD-1	SUN0480-1120	13+71.00	AD-1	VCP	8	432	12.00%	3448
SUN0480-1110	6+25.00	AD-1	SUN0480-1115	9+39.00	AD-1	VCP	8	314	6.00%	3448

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0480-1105	3+30.00	AD-1	SUN0480-1110	6+25.00	AD-1	VCP	8	295	6.00%	3448
SUN0480-1100	9+82.00	AD-4	SUN0480-1105	3+30.00	AD-1	VCP	8	330	6.00%	3448
SUN0480-1095	5+83.00	AD-1	SUN0480-1100	9+82.00	AD-4	VCP	8	399	2.37%	3448
SUN0480-1090	1+85.00	AD-1	SUN0480-1095	5+83.00	AD-1	VCP	8	398	1.92%	3448
SUN0480-1085	13+18.92	7-4C	SUN0480-1090	1+85.00	AD-1	VCP	8	185	2.32%	3548 / 3448
RED0625-0305	0+00.00	AD-2	RED0625-0310	8+85.00	AD-1	VCP	8	523	10.14%	3449 / 3448
RED0625-0215	4+20.00	AD-1	RED0625-0305	0+00.00	AD-2	VCP	8	362	0.32%	3449
RED0625-0215	4+20.00	AD-1	RED0625-0300	3+78.00	AD-1	VCP	8	378	17.00%	3449
AIRMONT WY										
RED0390-0670	3+22.32	RS-391	RED0390-0675	0+10.00	RS-391	VCP	8	332	0.40%	3645
RED0390-0645	3+95.03	X-24	RED0390-0650	0+75.01	TR-5743	VCP	8	320	1.20%	3645 / 3545
RED0390-0640	7+25.03	X-24	RED0390-0645	3+95.03	X-24	VCP	8	330	1.00%	3645
RED0390-0590	10+55.11	X-24	RED0390-0640	7+25.03	X-24	VCP	8	330	1.00%	3645
RED0390-0595	5+68.80	RS-337	RED0390-0600	2+68.80	RS-334	VCP	8	300	0.36%	3645
RED0390-0590	10+55.11	X-24	RED0390-0595	5+68.80	RS-337	VCP	8	140	0.36%	3645
RED0390-0570	7+61.39	AD-3A	RED0390-0575	10+31.38	AD-3A	VCP	8	270	0.60%	3545
RED0390-0565	4+91.38	AD-3A	RED0390-0570	7+61.39	AD-3A	VCP	8	270	0.60%	3545
RED0390-0560	2+36.00	AD-3A	RED0390-0565	4+91.38	AD-3A	VCP	8	255	0.60%	3545
RED0390-0415	3+62.58	AD-3A	RED0390-0560	2+36.00	AD-3A	VCP	8	236	0.60%	3545
RED0390-0490	0+00.00	AD-3A	RED0390-0505	0+80.00	AD-3A	VCP	8	80	0.40%	3545
RED0390-0495	2+75.00	AD-3A	RED0390-0500	6+40.00	AD-3A	VCP	8	365	0.40%	3545
RED0390-0490	0+00.00	AD-3A	RED0390-0495	2+75.00	AD-3A	VCP	8	275	0.40%	3545
AIRWEATHER RD					,					
HAT0325-0005	1+76.40	AD-4	HAT0325-0010	4+27.64	AD-4	VCP	8	251	0.40%	3849
HAT0325-0000	150+78.02	TR-4855	HAT0325-0005	1+76.40	AD-4	VCP	8	176	0.40%	3849
HAT0290-0040	0+00.00	AD-4	HAT0290-0095	2+58.00	AD-4	VCP	8	258	2.80%	3849
HAT0290-0045	1+10.54	AD-4	HAT0290-0050	1+22.54	AD-4	VCP	8	12	0.40%	3849
HAT0290-0040	0+00.00	AD-4	HAT0290-0045	1+10.54	AD-4	VCP	8	111	0.40%	3849
AIRWOOD LN										
SUN0480-0930	3+08.00	AD3B	SUN0480-0935	6+15.00	AD3B	VCP	8	307	0.24%	3547
SUN0480-0925	10+31.06	7-39	SUN0480-0930	3+08.00	AD3B	VCP	8	279	3.13%	3547
* SUN0480-0080	151+94.44	7-39	SUN0480-0925	10+31.06	7-39	VCP	8	27	3.13%	3547
ALLEN LEAF PL										
HAT0080-0010	5+04.55	S-536	HAT0080-0055	2+61.00	RS-493	VCP	8	261	0.40%	4246
HAT0080-0005	2+52.55	S-536	HAT0080-0010	5+04.55	S-536	VCP	8	252	0.40%	4246
HAT0080-0000	3+25.00	S-536	HAT0080-0005	2+52.55	S-536	VCP	8	253	0.40%	4246
ALMOUTH DR										
HAT0205-0130	5+48.00	RS-321	HAT0205-0155	6+33.00	RS-321	VCP	8	85	0.32%	4047
HAT0205-0125	2+18.00	RS-321	HAT0205-0130	5+48.00	RS-321	VCP	8	330	0.32%	4047
HAT0205-0120	1+08.00	RS-321	HAT0205-0125	2+18.00	RS-321	VCP	8	110	0.32%	4047
HAT0190-0030	5+05.57	RS-386	HAT0190-0050	6+20.57	RS-387	VCP	8	115	2.00%	4047
HAT0190-0025	2+50.00	RS-387	HAT0190-0030	5+05.57	RS-386	VCP	8	255	0.32%	4047
HAT0190-0020	8+99.20	TR-5799	HAT0190-0025	2+50.00	RS-387	VCP	8	250	0.32%	4047

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
FAREN DR										
SUN0315-3265	4+74.10	TR-4846	SUN0315-3270	7+74.10	TR-4846	VCP	8	300	9.99%	3649
SUN0315-3260	2+00.00	TR-4846	SUN0315-3265	4+74.10	TR-4846	VCP	8	274	10.80%	3649
SUN0315-3215	4+83.00	TR-4586	SUN0315-3260	2+00.00	TR-4846	VCP	8	196	8.00%	3649
FARMINGTON RD										
HAT0205-0145	1+40.00	RS-321	HAT0205-0150	4+50.00	RS-321	VCP	8	310	0.32%	4047
HAT0205-0135	2+68.00	RS-321	HAT0205-0145	1+40.00	RS-321	VCP	8	140	0.32%	4047
HAT0205-0110	3+53.28	RS-230	HAT0205-0115	5+27.13	RS-230	VCP	8	174	0.40%	4047
HAT0205-0085	1+66.00	RS-230	HAT0205-0110	3+53.28	RS-230	VCP	8	187	0.40%	4047
HAT0205-0020	14+55.66	RS-229	HAT0205-0085	1+66.00	RS-230	VCP	8	154	0.40%	4047
HAT0190-0040	5+22.12	RS-386	HAT0190-0045	7+47.12	RS-386	VCP	8	225	0.32%	4047
HAT0190-0035	2+97.12	RS-386	HAT0190-0040	5+22.12	RS-386	VCP	8	225	0.32%	4047
FASHION LN										
SUN0400-0125	4+55.79	RS-620	SUN0400-0130	6+45.79	RS-620	VCP	8	190	0.40%	3846
SUN0400-0120	2+50.00	RS-620	SUN0400-0125	4+55.79	RS-620	VCP	8	206	0.36%	3846
SUN0400-0115	0+00.00	RS-620	SUN0400-0120	2+50.00	RS-620	VCP	8	250	0.36%	3846
FEATHER HILL RD										
HAT0080-0065	7+80.00	S-537	HAT0080-0070	11+58.65	S-537	VCP	8	389	0.40%	4246
HAT0080-0060	3+90.00	S-537	HAT0080-0065	7+80.00	S-537	VCP	8	390	0.40%	4246
HAT0080-0005	2+52.55	S-536	HAT0080-0060	3+90.00	S-537	VCP	8	390	0.86%	4246
FENWICK PL	2.02.00	2 333	1	3.55.00	000.				0.0070	12.10
SUN0315-3675	1+49.48	TR-3732	SUN0315-3680	2+91.29	TR-3732	VCP	8	142	4.28%	3549
SUN0315-3630	6+71.75	TR-3731	SUN0315-3675	1+49.48	TR-3732	VCP	8	150	8.84%	3549
FERNBROOK DR	0.71.73	11(3/31	36110323 3073	11 13110	11(3/32			130	0.0170	33.13
HAT0135-0015	2+35.00	TR-6633	HAT0135-0020	4+65.31	TR-6633	VCP	8	235	0.40%	4147
HAT0135-0010	5+09.40	TR-6633	HAT0135-0015	2+35.00	TR-6633	VCP	8	235	0.40%	4147
FIELDING DR	3103.40	11(0033	11A10133 0013	2133.00	11/ 0033	VCI	- C	233	0.4070	717/
SUN0315-0595	2+56.28	TR-4334	SUN0315-0615	1+79.00	TR-4334	VCP	8	179	0.60%	3946
FIELDSTONE DR	2130.28	111-4554	3010313-0013	1175.00	111-4334	VCI	0	173	0.0070	3540
RED0495-0005	3+12.00	AD-3A	RED0495-0035	2+50.00	AD-3A	VCP	8	250	0.80%	3446
FIESTA WY	3112.00	AD-3A	NED0433-0033	2130.00	AD-3A	VCI	0	230	0.8070	3440
* RED0370-0000	97+99.22	7-41	RED0370-0005	4+75.00	AD-2	VCP	8	465	0.40%	3745
RED0376-0000	2+37.23	7-41 AD-2	RED0370-0003	2+20.00	AD-2 AD-2	VCP		220	2.80%	3745
FISHER LN	2+37.23	AD-Z	NLD0303-0080	2+20.00	AD-Z	VCF	8	220	2.80%	3740
RED0625-0265	2+26.00	AD-2	RED0625-0270	2+60.00	AD-1	VCP	8	34	19.43%	3449
RED0625-0225	6+40.00	AD-1	RED0625-0265	2+26.00	AD-2	VCP	8	215	6.70%	3449
FLAMINIAN WY	2,20,10	TD 2624	CUN021F 22C0	4.47.50	TD 2624	VCD	0	200	2.000/	2649
SUN0315-2355	2+38.10	TR-3634	SUN0315-2360	4+47.58	TR-3634	VCP	8	209	3.00%	3648
SUN0315-2305	2+89.12	TR-3596	SUN0315-2355	2+38.10	TR-3634	VCP	8	350	0.40%	3649 / 3648
SUN0315-2305	2+89.12	TR-3596	SUN0315-2310	19+08.11	TR-3596	VCP	8	255	0.40%	3649
FLINT DR	2.50.00	40.24	DED0405 0020	E. 02.47	AD 24	1465	0	252	0.6004	2446
RED0495-0015	2+50.00	AD-3A	RED0495-0020	5+02.47	AD-3A	VCP	8	252	0.60%	3446
RED0495-0010	5+50.00	AD-3A	RED0495-0015	2+50.00	AD-3A	VCP	8	250	0.60%	3446

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
RED0420-0400	2+88.54	AD-3A	RED0420-0415	1+40.00	7-48	VCP	8	140	0.40%	3646
RED0420-0390	4+35.00	AD-1	RED0420-0395	8+70.00	AD-3A	VCP	8	435	0.80%	3546
RED0420-0190	3+20.58	7-4B	RED0420-0390	4+35.00	AD-1	VCP	8	435	1.40%	3546
RED0420-0290	3+31.00	TR-3574	RED0420-0295	6+66.00	TR-3574	VCP	8	329	0.32%	3546
RED0420-0285	12+24.94	TR-3574	RED0420-0290	3+31.00	TR-3574	VCP	8	335	0.32%	3546
OTHILL BLVD										
SUN0480-0915	12+19.46	SSI-C	SUN0480-0920	15+54.20	SSI-C	VCP	8	331	1.00%	3548
SUN0480-0910	8+98.66	SSI-C	SUN0480-0915	12+19.46	SSI-C	VCP	8	325	0.40%	3548
SUN0480-0905	6+39.23	SSI-C	SUN0480-0910	8+98.66	SSI-C	VCP	8	259	0.40%	3548
SUN0480-0900	3+20.00	SSI-C	SUN0480-0905	6+39.23	SSI-C	VCP	8	319	0.40%	3547 / 3548
SUN0480-0895	151+05.38	7-39	SUN0480-0900	3+20.00	SSI-C	VCP	8	320	1.50%	3547
SUN0480-0075	151+05.78	7-39	SUN0480-0895	151+05.38	7-39	VCP	8	89	3.09%	3547
SUN0430-1580	13+73.79	7-3A-4A	SUN0430-1585	16+31.34	7-3A-4A	VCP	8	258	0.32%	3548
SUN0430-1575	9+64.11	7-3A-4A	SUN0430-1580	13+73.79	7-3A-4A	VCP	8	410	0.32%	3548
SUN0430-1570	7+83.00	7-3A-4A	SUN0430-1575	9+64.11	7-3A-4A	VCP	8	181	0.88%	3548
SUN0430-1565	6+22.00	7-3A-4A	SUN0430-1570	7+83.00	7-3A-4A	VCP	8	161	0.88%	3548
SUN0430-1560	4+82.00	7-3A-4A	SUN0430-1565	6+22.00	7-3A-4A	VCP	8	140	0.32%	3548
SUN0430-1555	1+90.00	7-3A-4A	SUN0430-1560	4+82.00	7-3A-4A	VCP	8	292	0.32%	3548
SUN0430-0140	16+96.34	7-3A-4A	SUN0430-1555	1+90.00	7-3A-4A	VCP	8	190	0.32%	3548
SUN0315-3985	397+36.06	7-22	SUN0430-0140	16+96.34	7-3A-4A	VCP	15	493	0.63%	3649 / 3548
SUN0315-3980	392+50.47	7-22	SUN0315-3985	397+36.06	7-22	VCP	15	486	0.64%	3649
SUN0315-2010	387+50.58	7-22	SUN0315-3980	392+50.47	7-22	VCP	15	500	1.32%	3649
SUN0315-3205	19+36.93	AD-5A	SUN0315-3210	4+75.00	SSI-C	VCP	8	475	6.75%	3650 / 3750
SUN0315-3200	16+96.00	AD-5A	SUN0315-3205	19+36.93	AD-5A	VCP	8	268	6.44%	3650
SUN0315-3195	15+43.00	AD-5A	SUN0315-3200	16+96.00	AD-5A	VCP	8	132	10.80%	3650
SUN0315-3190	12+00.00	AD-5A	SUN0315-3195	15+43.00	AD-5A	VCP	8	343	8.09%	3649 / 3650
SUN0315-3185	8+00.00	AD-5A	SUN0315-3190	12+00.00	AD-5A	VCP	8	400	6.60%	3649
SUN0315-3180	4+00.00	AD-5A	SUN0315-3185	8+00.00	AD-5A	VCP	8	400	7.44%	3649
SUN0315-3175	0+00.00	AD-5A	SUN0315-3180	4+00.00	AD-5A	VCP	8	400	5.80%	3649
SUN0315-2555	0+06.00	7-3A-4A	SUN0315-3175	0+00.00	AD-5A	VCP	8	337	3.20%	3649
SUN0315-2005	386+80.00	7-22	SUN0315-2010	387+50.58	7-22	VCP	15	71	1.32%	3649
SUN0315-2000	385+52.09	7-22	SUN0315-2005	386+80.00	7-22	VCP	15	98	1.32%	3649
SUN0315-1995	384+55.00	7-22	SUN0315-2000	385+52.09	7-22	VCP	15	97	2.14%	3649
HAT0480-0000	11+14.91	FOOTHILL BLVD	HAT0485-0000	12+64.91	FOOTHILL BLVD	VCP	8	146	0.50%	3750
HAT0475-0000	10+61.01	FOOTHILL BLVD	HAT0480-0000	11+14.91	FOOTHILL BLVD	VCP	8	50	0.50%	3750
HAT0470-0000	8+84.36	FOOTHILL BLVD	HAT0475-0000	10+61.01	FOOTHILL BLVD	VCP	8	173	0.50%	3750
HAT0465-0000	7+88.58	FOOTHILL BLVD	HAT0470-0000	8+84.36	FOOTHILL BLVD	VCP	8	92	0.50%	3750
HAT0460-0000	5+86.02	FOOTHILL BLVD	HAT0465-0000	7+88.58	FOOTHILL BLVD	VCP	8	199	0.50%	3750
HAT0455-0000	2+97.43	FOOTHILL BLVD	HAT0460-0000	5+86.02	FOOTHILL BLVD	VCP	8	285	0.50%	3750
HAT0450-0000	0+00.00	FOOTHILL BLVD	HAT0455-0000	2+97.43	FOOTHILL BLVD	VCP	8	373	0.50%	3750
HAT0420-0000	3+99.70	TR-9688	HAT0450-0000	0+00.00	FOOTHILL BLVD	VCP	8	20	4.40%	3750
HAT0450-0000	0+00.00		HAT0425-0000	0+97.50	SSI-D	VCP	8	78	5.33%	3750
HAT0420-0000	3+99.70	TR-9688	HAT0420-0005	19+65.50	TR-9688	VCP	8	60	11.48%	3750

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
FOOTHILL LN										
SUN0315-2480	1+88.66	AD-5A	SUN0315-2485	4+85.19	AD-5A	VCP	8	295	2.40%	3649 / 3650
FORESTERRA LN										
RED0145-0215	1+68.67	TR-6490	RED0145-0250	2+35.00	TR-6490	VCP	8	235	0.40%	4145
RED0145-0215	1+68.67	TR-6490	RED0145-0220	1+07.00	TR-6490	VCP	8	107	0.40%	4145
FORUM WY										
SUN0315-2385	6+06.04	TR-3634	SUN0315-2390	8+06.04	TR-3634	VCP	8	200	4.45%	3649
FOWLER AV										
SUN0480-1375	6+95.00	7-4C	SUN0480-1385	0+33.75	SSI-C	VCP	8	34	1.92%	3448
SUN0480-1375	6+95.00	7-4C	SUN0480-1380	10+00.00	74C	VCP	8	300	10.80%	3448
SUN0480-1370	5+56.00	TR-3444	SUN0480-1375	6+95.00	7-4C	VCP	8	146	4.00%	3448
SUN0480-1365	3+56.00	7-4C	SUN0480-1370	5+56.00	TR-3444	VCP	8	200	4.00%	3447 / 3448
* SUN0480-0135	16+23.07	7-4C	SUN0480-1365	3+56.00	7-4C	VCP	8	351	5.60%	3447
SUN0480-1245	5+62.00	AD-1	SUN0480-1250	4+25.00	SSI-C	VCP	8	165	18.00%	3448
SUN0480-1240	2+94.50	AD-1	SUN0480-1245	5+62.00	AD-1	VCP	8	268	3.73%	3448
SUN0480-1115	9+39.00	AD-1	SUN0480-1240	2+94.50	AD-1	VCP	8	295	7.76%	3448
FOXCROFT RD										
HAT0080-0020	7+80.01	S-538	HAT0080-0025	11+68.66	S-538	VCP	8	389	0.40%	4246
HAT0080-0015	3+90.00	S-538	HAT0080-0020	7+80.01	S-538	VCP	8	390	0.40%	4246
HAT0080-0010	5+04.55	S-536	HAT0080-0015	3+90.00	S-538	VCP	8	390	0.40%	4246
FOXRUN RD										
SUN0430-0690	9+22.71	TR-9606	SUN0430-0695	12+94.21	TR-9606	VCP	8	372	1.04%	3351 / 3451
SUN0430-0685	6+57.86	TR-9606	SUN0430-0690	9+22.71	TR-9606	VCP	8	265	4.16%	3351
SUN0430-0680	4+20.00	TR-9606	SUN0430-0685	6+57.86	TR-9606	VCP	8	238	9.56%	3351
SUN0430-0495	4+45.81	TR-9606	SUN0430-0680	4+20.00	TR-9606	VCP	8	260	7.68%	3351
SUN0430-0495	4+45.81	TR-9606	SUN0430-0500	6+71.01	TR-9606	VCP	8	225	0.40%	3351
FURLONG DR										
HAT0000-0355	0+00.00	TR-6206	HAT0000-0375	2+00.00	TR-6206	VCP	8	200	1.54%	3650
HAT0000-0365	5+40.00	TR-6206	HAT0000-0370	6+00.00	TR-6206	VCP	8	60	8.66%	3550
HAT0000-0360	1+90.00	TR-6206	HAT0000-0365	5+40.00	TR-6206	VCP	8	350	13.44%	3650 / 3550
HAT0000-0355	0+00.00	TR-6206	HAT0000-0360	1+90.00	TR-6206	VCP	8	190	4.72%	3650
GALY ST				_ 55.55	525					
RED0360-0025	0+50.00	TR-3798	RED0360-0150	4+62.00	TR-3798	VCP	8	319	0.24%	3745
RED0360-0025	0+50.00	TR-3798	RED0360-0030	0+05.00	TR-3798	VCP	8	138	0.24%	3745
RED0340-0020	3+10.00	TR-5658	RED0360-0030	0+05.00	TR-3798	VCP	8	180	4.66%	3745
RED0340-0015	10+45.00	TR-5658	RED0340-0040	1+40.00	TR-5658	VCP	8	140	0.36%	3745
RED0340-0015	13+84.73	TR-6450	RED0340-0040	1+40.00	TR-5658	VCP	8	175	0.32%	3745
RED0340-0015	10+45.00	TR-5658	RED0340-0020	3+10.00	TR-5658	VCP	8	310	0.36%	3745
GARLAND AV	10143.00	111-3036	MED0340-0020	3110.00	TR-5050	VCI	U	210	0.30/0	3/43
SUN0315-1075	2+55.00	TR-5059	SUN0315-1080	6+29.50	TR-5059	VCP	8	375	0.20%	3948
SUN0315-1073	5+30.50	AD-4	SUN0315-1065	0+29.30	AD-4	VCP	8	28	0.20%	3947
SUN0315-1060 SUN0315-1050	2+68.50	AD-4 AD-4	SUN0315-1060	5+30.50	AD-4 AD-4	VCP	8	262	0.88%	3947
SUN0315-1045	10+76.78	7-36		2+68.50	AD-4 AD-4	VCP	8	202		3947
3UNU313-1U45	10+/0./8	/-30	SUN0315-1050	Z+08.3U	AU-4	I ACL	ŏ	204	0.24%	394/

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0315-0105	70+89.23	7-36	SUN0315-1045	10+76.78	7-36	VCP	8	71	0.71%	3947
SUN0315-1035	3+38.00	TR-4238	SUN0315-1040	6+40.00	TR-4238	VCP	8	302	0.24%	3947 / 3847
SUN0315-1030	10+85.76	7-36	SUN0315-1035	3+38.00	TR-4238	VCP	8	295	0.24%	3947
SUN0315-0105	70+89.23	7-36	SUN0315-1030	10+85.76	7-36	VCP	8	80	9.16%	3947
SUN0315-0975	4+89.65	TR-4521	SUN0315-0970	3+82.81	TR-4521	VCP	8	383	1.00%	3847
ATEWAY CIR										
SUN0140-0985	5+63.36	SSI-G	SUN0140-0990	7+84.36	SSI-G	VCP	12	219	0.43%	4243
SUN0140-0980	3+39.38	SSI-G	SUN0140-0985	5+63.36	SSI-G	VCP	12	220	0.43%	4243
NTEWAY DR										
SUN0430-1955	4+90.32	TR-5745	SUN0430-1970	2+97.26	TR-5745	VCP	8	297	2.60%	3549 / 3548
RSHON PL										
SUN0415-0625	7+74.90	TR-5391	SUN0415-0630	9+21.42	TR-5391	VÇP	8	147	0.92%	3646
SUN0415-0620	4+50.00	TR-5391	SUN0415-0625	7+74.90	TR-5391	VCP	8	325	0.92%	3746 / 3646
SUN0415-0615	1+00.00	TR-5391	SUN0415-0620	4+50.00	TR-5391	VCP	8	350	0.92%	3746
SUN0415-0593	2+50.00	7-3B	SUN0415-0615	1+00.00	TR-5391	VCP	8	100	6.96%	3746
SUN0415-0550	2+05.40	TR-4221	SUN0415-0555	2+52.46	TR-4221	VCP	8	249	0.36%	3547 / 3647
SUN0415-0540	14+63.50	AD3B	SUN0415-0545	18+23.50	AD3B	VCP	8	360	0.40%	3646
SUN0415-0535	11+39.50	AD3B	SUN0415-0540	14+63.50	AD3B	VCP	8	324	0.40%	3646
SUN0415-0530	7+60.00	AD3B	SUN0415-0535	11+39.50	AD3B	VCP	8	380	1.20%	3646
SUN0415-0525	3+80.00	AD3B	SUN0415-0530	7+60.00	AD3B	VCP	8	380	1.40%	3646
SUN0415-0095	92+14.69	7-3B	SUN0415-0525	3+80.00	AD3B	VCP	8	380	1.97%	3646
GI DR										
SUN0315-3590	2+76.00	TR-3731	SUN0315-3595	5+95.63	TR-3731	VCP	8	320	2.40%	3649
SUN0315-3980	392+50.47	7-22	SUN0315-3590	2+76.00	TR-3731	VCP	8	274	1.84%	3649
MBERT LN										
SUN0480-0870	7+24.92	TR-5111	SUN0480-0880	6+99.00	TR-5111	VCP	8	26	0.32%	3548
SUN0480-0865	11+29.32	TR-5111	SUN0480-0870	7+24.92	TR-5111	VCP	8	247	0.32%	3548
SUN0480-0600	8+02.26	7-3B	SUN0480-0745	3+90.00	AD-3B	VCP	8	390	1.60%	3648
SUN0480-0510	8+78.00	TR-4155	SUN0480-0515	11+44.00	TR-4155	VCP	8	266	1.60%	3648
SUN0480-0505	6+28.00	TR-4155	SUN0480-0510	8+78.00	TR-4155	VCP	8	250	1.60%	3648
SUN0480-0500	2+93.00	TR-4155	SUN0480-0505	6+28.00	TR-4155	VCP	8	335	0.32%	3648
SUN0480-0420	120+54.08	7-3B	SUN0480-0500	2+93.00	TR-4155	VCP	8	308	0.32%	3648
ADSTONE DR										
SUN0315-2220	3+00.00	TR-3527	SUN0315-2225	2+24.00	TR-3696	VCP	8	472	1.90%	3648
SUN0315-2215	0+04.00	TR-3527	SUN0315-2220	3+00.00	TR-3527	VCP	8	296	1.24%	3648
ENAIRE DR										
SUN0315-2765	4+64.17	TR-6362	SUN0315-2770	6+48.14	TR-6362	VCP	8	184	3.04%	3550 / 3549
SUN0315-2760	2+09.88	TR-6362	SUN0315-2765	4+64.17	TR-6362	VCP	8	254	10.20%	3550
SUN0315-2615	1+29.37	TR-6362	SUN0315-2760	2+09.88	TR-6362	VCP	8	210	2.48%	3550
ENARBOR AV										
HAT0090-0025	7+76.00	S-564	HAT0090-0065	2+61.00	S-564	VCP	8	261	0.40%	4245
ENMERE DR			1111111111							.= .0
		TR-6071								

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0480-0460	4+73.29	TR-6071	SUN0480-0465	2+25.00	TR-6071	VCP	8	225	1.12%	3648
GOLD STAR LN										
HAT0000-0395	4+24.37	TR-9389	HAT0000-0405	1+61.76	TR-9389	VCP	8	158	6.90%	3650
HAT0000-0395	4+24.37	TR-9389	HAT0000-0400	6+23.05	TR-9389	VCP	8	195	0.40%	3650
GRAMERCY DR										
SUN0500-0325	3+56.37	AD-3B	SUN0500-0330	7+34.04	AD-4	VCP	8	378	1.00%	3647
SUN0500-0320	5+23.30	AD-3B	SUN0500-0325	3+56.37	AD-3B	VCP	8	356	0.40%	3647
SUN0415-0515	3+33.33	AD3B	SUN0415-0520	6+88.00	AD3B	VCP	8	355	1.81%	3646 / 3647
SUN0415-0510	0+00.00	AD3B	SUN0415-0515	3+33.33	AD3B	VCP	8	333	0.80%	3646
GRASSMERE LN										
RED0145-0225	2+84.00	TR-6490	RED0145-0230	4+88.00	TR-6490	VCP	8	204	0.40%	4145 / 4045
RED0145-0220	1+07.00	TR-6490	RED0145-0225	2+84.00	TR-6490	VCP	8	177	0.40%	4145
GREEN VALLEY AV										
SUN0315-0555	3+02.00	TR-4317	SUN0315-0580	1+63.00	TR-4317	VCP	8	163	0.50%	3947
SUN0315-0535	3+50.00	AD-4	SUN0315-0540	6+50.00	AD-4	VCP	8	300	0.24%	3946
SUN0315-0530	13+12.66	TSI-2	SUN0315-0535	3+50.00	AD-4	VCP	8	316	0.37%	4046 / 3946
* RED0175-0000	1+89.00	TR-4830	RED0175-0005	5+10.70	TR-4830	VCP	8	517	0.40%	4046
GREEN WILLOW CT							-			
SUN0480-0870	7+24.92	TR-5111	SUN0480-0875	3+52.80	TR-5111	VCP	8	358	0.32%	3548
GREENBRIER RD	, , _ 1.13 _			3.52.66	111 0222			333	0.3270	33.10
SUN0430-0835	11+78.78	TR-1917	SUN0430-0840	15+66.00	TR-1917	VCP	6	388	2.47%	3450
SUN0430-0830	9+52.91	TR-1917	SUN0430-0835	11+78.78	TR-1917	VCP	6	226	3.75%	3450
SUN0430-0825	8+64.00	TR-1917	SUN0430-0830	9+52.91	TR-1917	VCP	6	89	27.45%	3450
SUN0430-0820	4+75.00	TR-1917	SUN0430-0825	8+64.00	TR-1917	VCP	6	100	13.50%	3450
SUN0430-0770	21+53.00	TR-1917	SUN0430-0775	17+46.00	TR-1917	VCP	6	407	6.72%	3450
SUN0430-0430	25+17.68	TR-1917	SUN0430-0770	21+53.00	TR-1917	VCP	6	88	12.00%	3450
GREENMEADOW AV	23 : 17 :00	11(252)	301101300770	21133.00	11(131)	V 0.		33	12.0070	3 130
HAT0080-0115	5+60.00	RS-560	HAT0080-0120	8+43.53	RS-560	VCP	8	284	0.40%	4245
HAT0080-0110	2+80.00	RS-560	HAT0080-0115	5+60.00	RS-560	VCP	8	280	0.40%	4245
HAT0080-0105	6+00.00	RS-560	HAT0080-0110	2+80.00	RS-560	VCP	8	280	1.24%	4245
GREENWALD LN	0.00.00	110 300	1,1,1,0000 0110	2 30.00	1.0 500	7 0.			1.1 1,0	12.13
RED0625-0190	5+70.00	AD-8	RED0625-0195	7+85.00	AD-8	VCP	8	215	10.80%	3349
RED0625-0185	2+95.00	AD-8	RED0625-0190	5+70.00	AD-8	VCP	8	275	6.48%	3449 / 3349
RED0625-0060	0+00.00	AD-8	RED0625-0185	2+95.00	AD-8	VCP	8	295	0.39%	3449
GREENWOOD LN	0.00.00	AD 0	NED0023 0103	2.33.00	710 0	VCI	J	233	0.3370	3443
SUN0430-2080	3+57.00	AD-2	SUN0430-2105	3+86.00	AD-2	VCP	8	386	1.60%	3847 / 3747
GROVE OAK DR	3.37.00	7,5 2	30110430 2103	3100.00	ND Z	VCI	0	300	1.0070	3047 3747
HAT0000-0730	0+26.62	TR-4921	HAT0000-0770	4+18.00	AD-7	VCP	8	80	3.20%	3551
HAT0000-0750	3+15.94	TR-4967	HAT0000-0765	5+33.06	TR-4967	VCP	8	217	12.00%	3551
HAT0000-0755	2+06.57	TR-4967	HAT0000-0760	3+15.94	TR-4967	VCP	8	109	11.67%	3551
HAT0000-0750	0+96.00	TR-4967	HAT0000-0755	2+06.57	TR-4967	VCP	8	103	14.87%	3551
HAT0000-0730	4+17.66	TR-4907	HAT0000-0750	0+96.00	TR-4967	VCP	8	306	9.16%	3551
HAT0000-0740	2+87.66	TR-4921	HAT0000-0745	4+17.66	TR-4921	VCP	8	130	4.31%	3551

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
HAT0000-0735	1+09.16	TR-4921	HAT0000-0740	2+87.66	TR-4921	VCP	8	179	3.04%	3551
HAT0000-0730	0+26.62	TR-4921	HAT0000-0735	1+09.16	TR-4921	VCP	8	83	0.74%	3551
HAT0000-0520	6+20.01	7-14-2	HAT0000-0730	0+26.62	TR-4921	VCP	8	27	0.56%	3551
HAT0000-0765	5+33.06	TR-4967	HAT0000-0705	8+31.67	TR-4967	VCP	8	299	9.00%	3551
HAT0000-0520	6+20.01	7-14-2	HAT0000-0525	0+45.00	TR-4921	VCP	8	46	3.53%	3551
HAT0000-0515	5+86.81	7-14-2	HAT0000-0520	6+20.01	7-14-2	VCP	8	33	3.36%	3551
GROVEMONT ST										
RED0390-0455	0+48.71	TR-3697	RED0390-0510	0+10.00	TR-3697	VCP	8	59	2.00%	3545
RED0390-0465	0+00.00	AD-1	RED0390-0470	2+76.00	TR-3697	VCP	8	220	0.74%	3545
RED0390-0460	1+56.00	TR-3697	RED0390-0465	0+00.00	AD-1	VCP	8	56	0.82%	3545
RED0390-0455	0+48.71	TR-3697	RED0390-0460	1+56.00	TR-3697	VCP	8	107	0.24%	3545
GROVESITE DR										
RED0395-0235	1+45.00	TR-6082	RED0395-0240	5+55.56	TR-6082	VCP	8	405	0.24%	3645
GWEN AV										
SUN0315-1845	2+94.00	AD-5A	SUN0315-1860	5+33.00	AD-5A	VCP	8	239	0.40%	3748
SUN0315-3915	325+62.92	7-22	SUN0315-1845	2+94.00	AD-5A	VCP	8	294	0.40%	3848 / 3748
GWYNETH DR										
SUN0315-0960	3+94.12	TR-4521	SUN0315-3905	1+40.88	TR-4521	VCP	8	141	76.00%	3847 / 3947
GYLAH LN										
SUN0430-2085	2+61.00	AD-2	SUN0430-2100	4+15.00	AD-2	VCP	8	415	1.40%	3847 / 3747
HALL CIR										
RED0275-0025	6+30.00	RS-548	RED0275-0040	2+50.00	RS-548	VCP	8	214	0.40%	3846
HAMBLETONIAN PL										
SUN0430-1070	1+25.51	TR-5840	SUN0430-1075	4+00.00	TR-5840	VCP	8	275	15.00%	3551
SUN0430-1065	4+40.30	TR-5840	SUN0430-1070	1+25.51	TR-5840	VCP	8	126	4.28%	3551
HAMLET LN										
RED0145-0190	1+09.40	RS-545	RED0145-0195	0+00.00	RS-545	VCP	8	400	0.40%	4045
HAMPSHIRE RD										
HAT0115-0010	5+18.30	RS-472	HAT0115-0015	8+68.30	RS-472	VCP	8	350	0.40%	4146
HAT0115-0005	1+68.30	RS-472	HAT0115-0010	5+18.30	RS-472	VCP	8	350	0.40%	4146
HAT0115-0000	0+00.00	RS-472	HAT0115-0005	1+68.30	RS-472	VCP	8	168	0.40%	4146
HARP CT										
SUN0455-0120	2+41.67	AD-5A	SUN0455-0135	2+03.50	AD-2	VCP	8	204	0.84%	3747
HARROGATE PL										
SUN0430-1435	0+45.60	TR-5646	SUN0430-1440	1+86.82	TR-5646	VCP	8	141	2.80%	3549
SUN0430-1395	1+99.27	TR-5646	SUN0430-1435	0+45.60	TR-5646	VCP	8	46	2.80%	3549
SUN0430-1415	7+62.44	TR-5646	SUN0430-1420	9+33.00	TR-5646	VCP	8	171	6.20%	3449
SUN0430-1410	5+57.44	TR-5646	SUN0430-1415	7+62.44	TR-5646	VCP	8	205	9.48%	3449
SUN0430-1405	3+71.74	TR-5646	SUN0430-1410	5+57.44	TR-5646	VCP	8	186	6.60%	3549 / 3449
SUN0430-1400	2+00.00	TR-5646	SUN0430-1405	3+71.74	TR-5646	VCP	8	172	2.92%	3549
SUN0430-1395	1+99.27	TR-5646	SUN0430-1400	2+00.00	TR-5646	VCP	8	200	3.36%	3549
HEATHCLIFF DR										
SUN0315-2440	1+75.00	AD-5A	SUN0315-2445	1+40.68	TR-5520	VCP	8	350	7.39%	3649
			1			•				•

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0315-2435	6+55.00	AD-5A	SUN0315-2440	1+75.00	AD-5A	VCP	8	181	1.96%	3649
SUN0315-2430	4+89.00	TR-4849	SUN0315-2435	6+55.00	AD-5A	VCP	8	164	2.24%	3649
SUN0315-2420	8+41.00	7-3C	SUN0315-2430	4+89.00	TR-4849	VCP	8	495	2.24%	3649
HEATHER AV										
HAT0090-0100	1+28.40	RS-437	HAT0090-0210	2+57.40	RS-437	VCP	8	129	0.40%	4146
HAT0090-0095	7+64.65	RS-437	HAT0090-0185	2+46.00	RS-437	VCP	8	257	0.40%	4146
HAT0090-0095	7+64.65	RS-437	HAT0090-0100	1+28.40	RS-437	VCP	8	128	0.40%	4146
HEATHERFIELD DR										
HAT0120-0125	0+05.00	RS-604	HAT0120-0130	4+48.40	RS-604	VCP	8	443	0.40%	4146
HEIGHTS DR										
RED0215-0155	5+00.00	RS-390	RED0215-0160	7+68.97	RS-390	VCP	8	269	0.44%	3744
RED0215-0150	1+57.70	RS-390	RED0215-0155	5+00.00	RS-390	VCP	8	332	0.44%	3744
RED0215-0145	0+25.00	RS-390	RED0215-0150	1+57.70	RS-390	VCP	8	133	0.44%	3744
HENSTRIDGE CIR										
RED0390-0685	2+74.32	RS-861	RED0390-0690	2+08.49	RS-861	VCP	8	208	0.40%	3645
HEWES AV										
* SUN0480-0090	158+34.95	7-39	SUN0480-1765	9+77.69	TR-12489	VCP	8	160	0.40%	3547
SUN0480-1765	9+77.69	TR-12489	SUN0480-0940	11+08.72	TR-12489	VCP	8	131	0.40%	3547
HEWES ST										
* SUN0635-0000	260+74.00	7-6-8	SUN0635-0005	3+42.00	AD-6	VCP	8	334	2.04%	3247
RED0605-0010	6+34.78	AD-6	RED0605-0035	8+47.00	AD-6	VCP	8	212	0.84%	3247
RED0605-0005	3+13.56	AD-6	RED0605-0010	6+34.78	AD-6	VCP	8	321	0.80%	3247
* RED0605-0000	301+04.70	7-4-2	RED0605-0005	3+13.56	AD-6	VCP	8	313	0.91%	3347 / 3247
HICKORY BRANCH RD										
HAT0255-0055	3+03.49	AD-4	HAT0255-0270	1+74.00	AD-4	VCP	8	174	0.44%	3948
HAT0255-0065	6+24.90	AD-4	HAT0255-0070	8+86.00	AD-2	VCP	8	261	1.80%	3948
HAT0255-0060	3+44.86	AD-4	HAT0255-0065	6+24.90	AD-4	VCP	8	280	2.80%	3948
HAT0255-0055	3+03.49	AD-4	HAT0255-0060	3+44.86	AD-4	VCP	8	345	0.79%	3948
HAT0230-0045	5+67.80	AD-4	HAT0230-0050	8+59.20	AD-4	VCP	8	291	1.00%	3948
HAT0230-0040	2+86.40	AD-4	HAT0230-0045	5+67.80	AD-4	VCP	8	281	0.40%	3948
HAT0230-0015	9+35.78	7-66	HAT0230-0040	2+86.40	AD-4	VCP	8	286	0.70%	3948
HIDDEN HILL AV										
HAT0080-0095	4+71.98	S-563	HAT0080-0125	2+61.00	S-563	VCP	8	261	0.40%	4245 / 4246
HIDEAWAY DR										
SUN0430-1385	7+13.92	TR-8212	SUN0430-1390	10+09.85	TR-5448	VCP	8	300	6.00%	3550
SUN0430-1380	4+74.99	TR-8212	SUN0430-1385	7+13.92	TR-8212	VCP	8	228	5.88%	3450 / 3550
SUN0430-1375	1+97.95	TR-8212	SUN0430-1380	4+74.99	TR-8212	VCP	8	273	4.28%	3450
SUN0430-1370	0+75.00	TR-8212	SUN0430-1375	1+97.95	TR-8212	VCP	8	119	8.12%	3550 / 3450
SUN0430-0920	0+00.00	TR-8212	SUN0430-1370	0+75.00	TR-8212	VCP	8	71	8.00%	3450 / 3550
HIGHLAND LN										,
SUN0315-2470	10+76.82	AD-5A	SUN0315-2520	1+62.00	AD-5A	VCP	8	162	1.60%	3649
HIGHVIEW DR										
HAT0335-0080	12+55.50	TR-3883	HAT0335-0085	14+61.66	TR-3883	VCP	8	206	0.32%	3750

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
HAT0335-0075	10+41.48	TR-3883	HAT0335-0080	12+55.50	TR-3883	VCP	8	214	5.72%	3750
HAT0335-0070	8+89.69	TR-3883	HAT0335-0075	10+41.48	TR-3883	VCP	8	152	9.30%	3750
HILLHAVEN DR										
SUN0500-0100	2+44.51	AD-3B	SUN0500-0220	3+99.21	AD-3B	VCP	8	399	3.20%	3547
SUN0500-0060	1+74.25	AD-4	SUN0500-0085	2+70.00	AD-4	VCP	8	270	0.80%	3547
SUN0500-0030	1+72.23	TR-3991	SUN0500-0055	1+47.00	TR-3991	VCP	8	147	0.40%	3547
HILLSBORO PL										
HAT0090-0285	1+29.00	RS-496	HAT0090-0290	2+94.24	RS-496	VCP	8	294	0.40%	4246
HILO LN										
SUN0480-0540	2+60.00	AD-3B	SUN0480-0545	5+20.00	AD-3B	VCP	8	260	1.00%	3647
SUN0480-0410	115+08.00	7-3B	SUN0480-0540	2+60.00	AD-3B	VCP	8	260	1.00%	3647
HINTON WY										
RED0625-0140	2+74.74	TR-6208	RED0625-0165	5+34.00	TR-6208	VCP	8	259	1.60%	3449
RED0625-0080	12+41.70	AD-1	RED0625-0140	2+74.74	TR-6208	VCP	8	275	3.70%	3449
RED0625-0130	7+50.00	AD-8	RED0625-0135	9+65.00	AD-8	VCP	8	215	14.40%	3449
RED0625-0125	5+00.00	AD-8	RED0625-0130	7+50.00	AD-8	VCP	8	250	4.80%	3449
RED0625-0120	2+50.00	AD-8	RED0625-0125	5+00.00	AD-8	VCP	8	250	3.24%	3449
RED0625-0085	0+00.00	AD-8	RED0625-0120	2+50.00	AD-8	VCP	8	250	3.24%	3449
HOLIDAY LN							-			
SUN0430-1705	3+45.00	SSI-D	SUN0430-1710	4+75.00	SSI-D	CIP	4	130	4.50%	3449
SUN0430-1700	5+97.04	AD-1	SUN0430-1705	3+45.00	SSI-D	VCP	8	250	0.77%	3449
SUN0430-1695	5+16.04	AD-2	SUN0430-1700	5+97.04	AD-1	VCP	8	81	4.40%	3449
SUN0430-1690	1+68.00	AD-1	SUN0430-1695	5+16.04	AD-2	VCP	8	348	9.42%	3449
HOLLY TREE LN		,,,, =		0 100				0.0	31.275	5 1 1 5
HAT0000-0485	9+19.83	AD-7	HAT0000-0500	5+18.00	AD-7	VCP	8	350	14.56%	3551
HAT0000-0480	6+46.75	AD-7	HAT0000-0485	9+19.83	AD-7	VCP	8	273	13.16%	3551
HAT0000-0475	3+32.00	AD-7	HAT0000-0480	6+46.75	AD-7	VCP	8	315	6.50%	3651 / 3551
HAT0000-0280	1+00.00	7-14-2	HAT0000-0475	3+32.00	AD-7	VCP	8	322	3.00%	3651
HAT0000-0280	1+00.00	7-14-2	HAT0000-0285	1+30.22	7-14-2	VCP	8	30	1.42%	3651
HOLT AV	1.00.00	, 172	11/11/0000 0203	1.30.22	, 112	V C1	J	30	1.12/0	3031
SUN0415-0505	16+33.00	TR-3687	SUN0415-0510	0+00.00	AD3B	VCP	8	233	0.40%	3646
SUN0415-0500	14+35.00	TR-3687	SUN0415-0505	16+33.00	TR-3687	VCP	8	198	0.40%	3646
SUN0415-0495	10+85.00	TR-3687	SUN0415-0500	14+35.00	TR-3687	VCP	8	350	0.40%	3646
SUN0415-0490	7+35.00	TR-3634	SUN0415-0495	10+85.00	TR-3687	VCP	8	350	1.00%	3646
SUN0415-0485	3+85.00	TR-3687	SUN0415-0490	7+35.00	TR-3634	VCP	8	350	1.20%	3646
SUN0415-0480		TR-3634	SUN0415-0485	3+85.00	TR-3687	VCP		175	1.20%	3646
	2+10.00						8			
SUN0415-0090	88+93.00	7-3B	SUN0415-0480	2+10.00	TR-3634	VCP	8	210	1.20%	3646
SUN0415-0410	3+13.00	TR-6400	SUN0415-0415	6+10.00	TR-6400	VCP	8	297	1.00%	3746
SUN0415-0405	0+16.00	TR-6400	SUN0415-0410	3+13.00	TR-6400	VCP	8	297 16	1.00%	3746
SUN0415-0055	71+03.89	7-3B	SUN0415-0405	0+16.00	TR-6400	VCP	8	16	1.00%	3746
SUN0415-0080	87+59.00	AD-2	SUN0415-0085	88+13.42	7-3B	VCP	10	54 25.4	1.00%	3646
SUN0415-0075	84+04.56	7-3B	SUN0415-0080	87+59.00	AD-2	VCP	10	354	1.00%	3746 / 3646
SUN0415-0070	81+08.56	7-3B	SUN0415-0075	84+04.56	7-3B	VCP	10	296	1.00%	3746

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0415-0065	77+54.00	7-3B	SUN0415-0070	81+08.56	7-3B	VCP	10	355	1.00%	3746
SUN0415-0060	75+24.56	7-3B	SUN0415-0065	77+54.00	7-3B	VCP	10	229	1.00%	3746
SUN0415-0055	71+03.89	7-3B	SUN0415-0060	75+24.56	7-3B	VCP	10	421	1.00%	3746
SUN0415-0050	67+54.69	7-3B	SUN0415-0055	71+03.89	7-3B	VCP	10	349	1.00%	3746
SUN0415-0045	36+79.64	7-39	SUN0415-0050	67+54.69	7-3B	VCP	10	314	1.00%	3746
SUN0415-0040	34+96.37	7-39	SUN0415-0045	36+79.64	7-39	VCP	12	184	2.14%	3746
SUN0415-0035	31+40.10	7-39	SUN0415-0040	34+96.37	7-39	VCP	12	356	0.70%	3746
SUN0415-0033	29+78.50	7-39	SUN0415-0035	31+40.10	7-39	VCP	12	69	0.70%	3846 / 3746
SUN0415-0030	29+08.43	7-39	SUN0415-0033	29+78.50	7-39	VCP	12	69	0.70%	3846
SUN0415-0025	23+81.17	7-39	SUN0415-0030	29+08.43	7-39	VÇP	12	525	0.70%	3846
SUN0415-0020	20+12.33	7-39	SUN0415-0025	23+81.17	7-39	VCP	12	369	0.70%	3846
SUN0415-0015	17+58.17	7-39	SUN0415-0020	20+12.33	7-39	VÇP	12	253	0.70%	3846
SUN0415-0010	17+28.10	7-39	SUN0415-0015	17+58.17	7-39	VCP	18	25	1.10%	3846
SUN0415-0005	12+09.66	7-39	SUN0415-0010	17+28.10	7-39	VCP	18	519	0.42%	3846
* SUN0415-0000	10+00.00	7-39	SUN0415-0005	12+09.66	7-39	VCP	18	200	0.42%	3846
HOWLAND WY										
RED0365-0045	9+55.23	TR-4483	RED0365-0050	11+60.23	TR-4483	VCP	8	205	1.80%	3646
RED0365-0040	0+04.00	TR-4483	RED0365-0045	9+55.23	TR-4483	VCP	8	205	0.24%	3746 / 3646
RED0365-0030	4+74.23	AD-2	RED0365-0035	7+50.23	TR-4483	VCP	8	282	0.24%	3746
RED0365-0025	2+37.23	AD-2	RED0365-0030	4+74.23	AD-2	VCP	8	237	0.32%	3746
RED0365-0020	8+83.72	AD-2	RED0365-0025	2+37.23	AD-2	VCP	8	237	0.32%	3746
RED0350-0020	10+42.00	AD-2	RED0350-0025	1+10.00	AD-2	VCP	8	110	0.40%	3746
RED0335-0020	0+00.00	TR-7969	RED0335-0025	2+90.86	TR-7969	VCP	8	291	0.40%	3746
HUNTING HORN DR										
SUN0315-3005	6+84.72	TR-5009	SUN0315-3010	9+40.86	TR-5009	VCP	8	256	4.84%	3650
SUN0315-3000	3+44.57	TR-5009	SUN0315-3005	6+84.72	TR-5009	VCP	8	340	1.24%	3650
SUN0315-2985	2+29.48	TR-5009	SUN0315-3000	3+44.57	TR-5009	VCP	8	345	1.64%	3650
SUN0315-2990	3+50.00	TR-5009	SUN0315-2995	7+08.18	TR-5009	VCP	8	351	0.40%	3650 / 3550
SUN0315-2985	2+29.48	TR-5009	SUN0315-2990	3+50.00	TR-5009	VCP	8	352	0.83%	3650
HUNTRIDGE RD										
SUN0315-2265	3+85.00	TR-3696	SUN0315-2270	7+70.00	TR-3696	VCP	8	385	0.83%	3648
SUN0315-2260	10+25.10	TR-3696	SUN0315-2265	3+85.00	TR-3696	VCP	8	385	0.83%	3649 / 3648
HYANNIS PORT RD										
HAT0080-0035	6+96.09	RS-482	HAT0080-0040	10+44.33	RS-481	VCP	8	350	0.40%	4246
HAT0080-0030	3+48.09	RS-482	HAT0080-0035	6+96.09	RS-482	VCP	8	348	0.40%	4246
HAT0080-0025	11+68.66	S-538	HAT0080-0030	3+48.09	RS-482	VCP	8	348	0.54%	4246
HYDE PARK DR										
SUN0315-3745	5+53.12	TR-3731	SUN0315-3790	7+98.10	TR-3731	VCP	8	245	0.72%	3549
SUN0315-3740	2+83.12	TR-3731	SUN0315-3745	5+53.12	TR-3731	VCP	8	270	2.48%	3549
SUN0315-3735	11+46.99	TR-3731	SUN0315-3740	2+83.12	TR-3731	VCP	8	249	3.29%	3549
SUN0315-3790	7+98.10	TR-3731	SUN0315-3655	9+84.10	TR-3732	VCP	8	186	3.80%	3549
SUN0315-3650	13+45.57	TR-3732	SUN0315-3655	9+84.10	TR-3732	VCP	8	366	1.32%	3549
SUN0315-3645	4+85.56	TR-3732	SUN0315-3650	13+45.57	TR-3732	VCP	8	195	1.60%	3549

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
IMPALA DR										
SUN0415-0075	84+04.56	7-3B	SUN0415-0455	2+10.00	AD-2	VCP	8	210	1.07%	3746
INDUSTRIAL DR										
RED0105-0010	7+15.96	RS-405	RED0105-0015	9+84.00	S-621	VCP	10	268	0.24%	4244
RED0105-0005	3+65.96	RS-405	RED0105-0010	7+15.96	RS-405	VCP	10	350	0.24%	4244
* RED0105-0000	175+49.00	7-2	RED0105-0005	3+65.96	RS-405	VCP	10	348	0.24%	4245 / 4244
INWOOD LN										
HAT0290-0035	16+39.70	AD-4	HAT0290-0100	2+48.00	AD-3A	VCP	8	248	1.60%	3849
IRONWOOD LN										
SUN0480-0970	2+82.55	TR-8616	SUN0480-0975	7+41.87	TR-8616	VCP	8	459	0.32%	3548
RVINE BLVD										
SUN0415-0175	8+75.00	TR-4581	SUN0415-0180	12+85.00	TR-4581	VCP	8	410	0.40%	3846
SUN0415-0170	4+65.00	TR-4581	SUN0415-0175	8+75.00	TR-4581	VCP	8	410	0.40%	3846
SUN0415-0165	0+63.00	TR-4581	SUN0415-0170	4+65.00	TR-4581	VCP	8	402	0.40%	3846
SUN0415-0015	17+58.17	7-39	SUN0415-0165	0+63.00	TR-4581	VCP	8	46	3.00%	3846
SUN0400-0055	11+04.00	AD-2	SUN0400-0090	4+50.00	AD-2	VCP	8	450	0.40%	3847
SUN0400-0055	11+04.00	AD-2	SUN0400-0060	3+43.00	AD-2	VCP	8	343	0.40%	3847 / 3846
SUN0315-1345	5+30.00	7-3D	SUN0315-1350	9+25.46	7-3D	VCP	8	395	0.32%	3948
SUN0315-1340	2+70.00	7-3D	SUN0315-1345	5+30.00	7-3D	VCP	8	260	0.32%	3947 / 3948
SUN0315-1335	11+03.10	7-36	SUN0315-1340	2+70.00	7-3D	VCP	8	188	0.32%	3947
SUN0315-0110	75+93.66	7-36	SUN0315-1335	11+03.10	7-36	VCP	8	97	1.46%	3947
SUN0315-1125	14+98.90	7-3E	SUN0315-1130	18+10.90	7-3E	VCP	8	312	0.68%	3847
SUN0315-1120	11+87.55	7-3E	SUN0315-1125	14+98.90	7-3E	VCP	8	311	0.68%	3847
SUN0315-1115	7+93.70	7-3E	SUN0315-1120	11+87.55	7-3E	VCP	8	394	0.68%	3847
SUN0315-1110	4+85.50	7-3E	SUN0315-1115	7+93.70	7-3E	VCP	8	308	0.68%	3847
SUN0315-1105	11+00.38	7-36	SUN0315-1110	4+85.50	7-3E	VCP	8	421	1.05%	3847
SUN0315-0110	75+93.66	7-36	SUN0315-1105	11+00.38	7-36	VCP	8	94	1.69%	3947 / 3847
RED0215-0205	10+46.79	RS-268	RED0215-0210	1+85.00	RS-726	VCP	8	185	0.30%	3845
RED0215-0090	7+46.79	RS-268	RED0215-0205	10+46.79	RS-268	VCP	8	300	0.30%	3845
RED0215-0095	4+29.94	RS-268	RED0215-0200	1+51.15	RS-268	VCP	8	279	1.11%	3845 / 3844
RED0215-0090	7+46.79	RS-268	RED0215-0095	4+29.94	RS-268	VCP	8	317	0.40%	3845
HAT0255-0305	2+55.97	AD-4	HAT0255-0310	5+21.26	AD-4	VCP	8	265	0.40%	3948
HAT0255-0300	0+60.00	AD-3A	HAT0255-0305	2+55.97	AD-4	VCP	8	196	0.40%	3948
HAT0255-0000	106+39.54	7-22	HAT0255-0300	0+60.00	AD-3A	VCP	8	60	0.40%	3948
HAT0255-0015	8+73.50	7-3D	HAT0255-0020	11+88.50	7-3D	VCP	8	315	0.40%	3948
HAT0255-0010	5+02.80	7-3D	HAT0255-0015	8+73.50	7-3D	VCP	8	371	0.40%	3948
HAT0255-0005	2+50.00	TR-4855	HAT0255-0010	5+02.80	7-3D	VCP	8	253	0.40%	3948
HAT0255-0000	106+39.54	7-22	HAT0255-0005	2+50.00	TR-4855	VCP	8	250	0.40%	3948
IVERNESS WY	100.53.54	, 22	11.10233 0003	2.30.00	111 4033	V C1		250	J. 10/0	3540
RED0320-0005	7+19.09	RS-259	RED0320-0250	8+68.50	RS-327	VCP	8	435	0.40%	3845
IACARANDA AV	, . 13.03		1.23323 3230	3.00.00		, c.		133	311070	30 13
RED0360-0070	14+15.78	RS-215	RED0360-0080	15+96.78	RS-225	VCP	8	181	0.24%	3744 / 3745
RED0360-0070	14+15.78	RS-215	RED0360-0080	15+65.78	RS-215	VCP	8	150	0.24%	3744 / 3743
UFD0200-0010	14715./0	N3-712	Urposon-00/2	13-03.76	V2-512	l ACL	0	130	0.2470] 3/44

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
RED0360-0065	11+57.55	RS-215	RED0360-0070	14+15.78	RS-215	VCP	8	258	0.24%	3745 / 3744
RED0360-0060	9+27.79	RS-215	RED0360-0065	11+57.55	RS-215	VCP	8	230	0.24%	3745
RED0360-0055	7+08.02	RS-215	RED0360-0060	9+27.79	RS-215	VCP	8	220	0.24%	3745
RED0360-0050	4+91.72	RS-214	RED0360-0055	7+08.02	RS-215	VCP	8	216	0.24%	3745
AN MARIE PL										
HAT0185-0005	2+60.00	TR-2764	HAT0185-0010	4+99.00	TR-2764	VCP	8	239	0.32%	4047
HAT0185-0000	61+81.08	7-22	HAT0185-0005	2+60.00	TR-2764	VCP	8	267	0.32%	4047
ENET CIR										
SUN0480-0630	6+40.99	TR-5576	SUN0480-0660	3+45.05	TR-5576	VCP	8	345	2.20%	3648
OSHUA LN										
RED0420-0080	6+16.00	TR-4186	RED0400-0047	8+48	TR-4186	VCP	8	233	1.88%	3646
RED0420-0075	3+72.00	TR-4186	RED0420-0080	6+16.00	TR-4186	VCP	8	233	1.88%	3646
RED0420-0070	1+50.00	TR-4186	RED0420-0075	3+72.00	TR-4186	VCP	8	222	0.24%	3646
RED0420-0020	2+50.00	TR-4186	RED0420-0070	1+50.00	TR-4186	VCP	8	150	0.24%	3646
JDY ANNE LN										
SUN0480-0605	10+68.37	7-3B	SUN0480-0740	3+90.00	AD-3B	VCP	8	390	1.60%	3648
SUN0480-0480	10+81.50	TR-6071	SUN0480-0495	11+81.50	TR-6071	VCP	8	100	1.00%	3648
SUN0480-0450	8+14.77	TR-6071	SUN0480-0480	10+81.50	TR-6071	VCP	8	267	1.20%	3648
SUN0480-0445	7+13.74	TR-6071	SUN0480-0450	8+14.77	TR-6071	VCP	8	101	1.20%	3648
ALUA LN										
SUN0315-0930	2+57.50	TR-4203	SUN0315-0935	4+00.00	TR-4203	VCP	8	400	0.24%	3947
SUN0315-0880	3+14.00	TR-4331	SUN0315-0885	6+01.00	TR-4331	VCP	8	287	0.40%	3947
SUN0315-0875	2+85.80	TR-4331	SUN0315-0880	3+14.00	TR-4331	VCP	8	314	0.40%	3947
AREN WY										
HAT0180-0010	5+05.36	AD-4	HAT0180-0050	2+50.00	AD-4	VCP	8	250	0.40%	4047
ASSY DR										
SUN0480-1295	0+74.00	TR-8212	SUN0480-1300	2+12.00	TR-8212	VCP	8	150	7.00%	3448
SUN0480-1290	4+14.50	AD-1	SUN0480-1295	0+74.00	TR-8212	VCP	8	80	27.20%	3448
EEGAN WY										
RED0390-0470	2+76.00	TR-3697	RED0390-0485	0+10.00	TR-3697	VCP	8	166	0.80%	3545
EIRSEY PL										
SUN0430-1495	3+74.49	AD-1	SUN0430-1500	6+93.60	AD-1	VCP	8	319	6.00%	3549
SUN0430-1490	0+73.00	AD-1	SUN0430-1495	3+74.49	AD-1	VCP	8	301	0.40%	3549
SUN0430-0170	34+53.86	7-3A-4A	SUN0430-1490	0+73.00	AD-1	VCP	8	73	6.64%	3549
EITH PL										
SUN0315-1525	2+55.00	AD-4	SUN0315-1530	3+83.00	AD-4	VCP	8	128	1.00%	3848
SUN0315-1520	5+13.62	AD-4	SUN0315-1525	2+55.00	AD-4	VCP	8	255	1.00%	3847 / 3848
SUN0315-1165	2+00.00	TR-1967	SUN0315-1170	4+93.65	TR-1967	VCP	8	200	1.00%	3847
SUN0315-1160	4+20.00	TR-1967	SUN0315-1165	2+00.00	TR-1967	VCP	8	220	1.00%	3847
ENNETH DR										
SUN0315-1435	2+64.00	AD-4	SUN0315-1485	3+38.00	AD-4	VCP	8	338	0.24%	3848
SUN0315-1455	2+60.00	TR-3951	SUN0315-1470	1+85.95	TR-3951	VCP	8	186	0.84%	3948
SUN0315-1190	4+99.62	AD-4	SUN0315-1235	2+20.00	AD-4	VCP	8	220	0.80%	3847
SUN0315-1170	4+93.65	TR-1967	SUN0315-1180	6+10.65	TR-1967	VCP	8	115	0.40%	3847

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0315-1170	4+93.65	TR-1967	SUN0315-1175	0+85.65	TR-1967	VCP	8	411	0.30%	3847 / 3848
KENT PL										
HAT0205-0095	2+93.83	RS-285	HAT0205-0105	1+65.00	RS-286	VCP	8	169	1.28%	3947
KENWOOD LN										
SUN0315-1620	4+93.21	AD-4	SUN0315-1625	7+11.25	AD-4	VCP	8	218	1.80%	3848
SUN0315-1615	0+98.48	AD-4	SUN0315-1620	4+93.21	AD-4	VCP	8	395	1.80%	3848
SUN0315-1590	5+20.97	AD-4	SUN0315-1615	0+98.48	AD-4	VCP	8	98	4.00%	3848
KENYON DR										
RED0115-0245	2+00.24	RS-275	RED0115-0250	0+10.00	RS-275	VCP	8	210	0.40%	4044 / 4144
RED0115-0240	4+07.00	RS-275	RED0115-0245	2+00.24	RS-275	VCP	8	207	0.40%	4044
RED0115-0235	4+06.93	RS-275	RED0115-0240	4+07.00	RS-275	VCP	8	360	0.40%	4144 / 4044
KIMBERLY CIR										
HAT0090-0210	2+57.40	RS-437	HAT0090-0215	3+80.33	RS-439	VCP	8	380	0.32%	4146
KIMBERWICKE DR										
SUN0430-1105	2+02.77	TR-5840	SUN0430-1120	3+44.67	TR-5840	VCP	8	142	0.52%	3551 / 3550
SUN0430-1100	13+71.03	TR-5840	SUN0430-1105	2+02.77	TR-5840	VCP	8	322	10.36%	3551
SUN0315-2890	9+22.13	TR-5794	SUN0315-2895	9+55.29	TR-5794	VCP	8	33	4.10%	3550
KINGS CROWN RD										
SUN0430-0705	16+15.21	TR-9606	SUN0430-0710	17+69.77	TR-9606	VCP	8	155	5.60%	3350
SUN0430-0700	14+00.00	TR-9606	SUN0430-0705	16+15.21	TR-9606	VCP	8	215	9.00%	3351 / 3350
SUN0430-0695	12+94.21	TR-9606	SUN0430-0700	14+00.00	TR-9606	VCP	8	106	1.84%	3451 / 3351
KINGSBORO CIR										
HAT0100-0020	7+20.01	RS-471	HAT0100-0040	1+05.43	RS-475	VCP	8	105	0.40%	4246
KINGSTON AV										
HAT0090-0110	1+86.00	RS-435	HAT0090-0115	2+61.00	RS-466	VCP	8	261	0.40%	4146
KIPLING LN										
RED0145-0200	1+09.40	RS-545	RED0145-0205	2+18.80	RS-545	VCP	8	400	0.40%	4045
KIRK AV										
SUN0415-0320	3+86.00	AD-5A	SUN0415-0325	7+85.00	AD-2	VCP	8	399	0.32%	3746
SUN0415-0315	10+14.25	AD-2	SUN0415-0320	3+86.00	AD-5A	VCP	8	386	0.32%	3746
KIRKWOOD AV										
RED0485-0095	4+78.48	AD-3A	RED0485-0100	2+50.00	AD-3A	VCP	8	250	0.80%	3446
KOOTENAY DR										
RED0435-0070	14+43.96	AD3B	RED0435-0075	18+65.96	AD3B	VCP	8	422	1.20%	3546
RED0435-0065	10+21.53	AD3B	RED0435-0070	14+43.96	AD3B	VCP	8	422	0.80%	3546
RED0435-0060	7+46.53	AD3B	RED0435-0065	10+21.53	AD3B	VCP	8	275	1.40%	3546
RED0435-0055	4+67.53	AD3B	RED0435-0060	7+46.53	AD3B	VCP	8	279	1.40%	3546
RED0435-0050	2+79.53	AD3B	RED0435-0055	4+67.53	AD3B	VCP	8	188	1.00%	3546
RED0435-0045	5+95.74	AD3B	RED0435-0050	2+79.53	AD3B	VCP	8	280	1.00%	3546
LA BELLA DR										
SUN0315-1695	3+40.00	TR-4018	SUN0315-1700	4+85.00	TR-4018	VCP	8	145	0.56%	3848
SUN0315-1690	1+62.20	AD-4	SUN0315-1695	3+40.00	TR-4018	VCP	8	356	0.56%	3848
HAT0255-0105	10+21.20	AD-4	HAT0255-0110	5+00.00	AD-4	VCP	8	500	0.32%	3848

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
LA COLINA DR										
SUN0315-1755	22+19.42	7-3E	SUN0430-0055	26+37.13	7-3E	VCP	8	418	0.56%	3747
SUN0315-1753	20+86.52	7-3E	SUN0315-1755	22+19.42	7-3E	VCP	8	133	0.32%	3747
SUN0315-1750	19+71.66	TR-7580	SUN0315-1753	20+86.52	7-3E	VCP	8	116	0.32%	3747
SUN0315-1745	18+01.72	7-6-7	SUN0315-1750	19+71.66	TR-7580	VCP	8	170	0.32%	3748 / 3747
SUN0315-1740	16+20.00	7-3E	SUN0315-1745	18+01.72	7-6-7	VCP	8	182	0.32%	3748
SUN0315-1735	14+13.00	7-3E	SUN0315-1740	16+20.00	7-3E	VCP	8	207	0.32%	3748
SUN0315-1730	11+37.26	7-3E	SUN0315-1735	14+13.00	7-3E	VCP	8	276	0.32%	3748
SUN0315-1725	8+05.03	7-12	SUN0315-1730	11+37.26	7-3E	VCP	8	332	0.32%	3848 / 3748
SUN0315-1720	4+40.03	7-3E	SUN0315-1725	8+05.03	7-12	VCP	8	365	0.32%	3848
SUN0315-1715	2+23.01	7-3E	SUN0315-1720	4+40.03	7-3 E	VCP	8	217	0.26%	3848
SUN0315-0155	319+02.06	7-3E	SUN0315-1715	2+23.01	7-3E	VCP	8	217	0.26%	3848
SUN0315-1705	5+30.21		SUN0315-1710	1+10.00	AD-4	VCP	8	110	0.40%	3848
SUN0315-1665	5+08.00	AD-4	SUN0315-1690	1+62.20	AD-4	VCP	8	162	1.08%	3848
SUN0315-1665	5+08.00	AD-4	SUN0315-1670	1+54.40	AD-4	VCP	8	154	0.62%	3848
HAT0290-0005	2+85.00	7-3D	HAT0290-0010	5+24.00	7-3D	VCP	8	239	0.32%	3849 / 3949
HAT0290-0000	132+80.03		HAT0290-0005	2+85.00	7-3D		0	282	0.00%	3849
HAT0275-0025	13+75.97		HAT0275-0035	3+00.00	AD-4	VCP	8	350	0.40%	3849
HAT0275-0025	13+75.97		HAT0275-0030	2+00.00	AD-4	VCP	8	200	0.40%	3849
HAT0255-0170	2+84.50	AD4	HAT0255-0220	3+40.00	AD-5A	VCP	8	56	0.84%	3848
HAT0255-0165	6+13.50	AD-4	HAT0255-0170	2+84.50	AD4	VCP	8	285	0.84%	3848
HAT0255-0160	0+00.00	SSI-G	HAT0255-0165	6+13.50	AD-4	VCP	8	318	0.36%	3848
HAT0255-0155	2+26.80	AD-4	HAT0255-0160	0+00.00	SSI-G	VCP	8	69	0.13%	3849 / 3848
HAT0255-0150	5+74.40	AD-4	HAT0255-0155	2+26.80	AD-4	VCP	8	227	0.32%	3849
HAT0255-0115	0+00.00		HAT0255-0120	1+85.00	AD-4	VCP	8	28	2.68%	3848
HAT0255-0110	5+00.00	AD-4	HAT0255-0115	0+00.00	SSI-D	VCP	8	157	-0.12%	3848
LA CUESTA DR	3.00.00	710	10/10233 0113	0.00.00	331 2	7 6.		137	0.12/0	36 16
HAT0495-0000	15+34.79	FOOTHILL BLVD	HAT0500-0000	15+54.34	FOOTHILL BLVD	VCP	8	18	2.00%	3750
HAT0490-0000	13+02.02	FOOTHILL BLVD		15+34.79	FOOTHILL BLVD	VCP	8	229	12.74%	3750
HAT0430-0000	2+87.00	SSI-D	HAT0435-0000	4+67.50	SSI-D	DIP	8	181	5.00%	3750
LA LIMONAR RD										
SUN0315-3810	15+09.84	TR-3731	SUN0315-3812	UNK	TR-3731	VCP	8	298	3.18%	3549
SUN0315-3805	12+09.84	TR-3731	SUN0315-3810	15+09.84	TR-3731	VCP	8	300	3.20%	3549
SUN0315-3610	9+09.84	TR-3731	SUN0315-3805	12+09.84	TR-3731	VCP	8	298	3.19%	3549
SUN0315-3705	4+24.13	TR-3731	SUN0315-3710	1+84.13	TR-3731	VCP	8	240	1.36%	3549
SUN0315-3700	6+64.13	TR-3731	SUN0315-3705	4+24.13	TR-3731	VCP	8	240	1.34%	3549
SUN0315-3610	9+09.84	TR-3731	SUN0315-3700	6+64.13	TR-3731	VCP	8	246	0.65%	3549
LA LOMA DR										
SUN0480-0650	13+21.41	TR-5576	SUN0480-0655	14+10.07	TR-5576	VCP	8	89	2.20%	3648
SUN0315-2300	10+72.00		SUN0430-0120	16+01.24	7-3A-4A	VCP	8	529	0.88%	3648
SUN0315-2420	8+41.00		SUN0315-2425	10+56.00	7-3C	VCP	8	215	10.00%	3649 / 3749
SUN0315-2415	7+50.00		SUN0315-2420	8+41.00	7-3C	VCP	8	91	10.00%	3649
SUN0315-2410	3+75.00		SUN0315-2415	7+50.00	7-3C	VCP	8	375	0.80%	3649
55.16515 E-110	3.73.00	, 55	1535515 2.115	, . 33.00	, 55	,	J	3,3	2.2370	1 30.3

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0315-2405	1+44.00	7-3C	SUN0315-2410	3+75.00	7-3C	VCP	8	231	0.80%	3649
SUN0315-1965	371+77.00	7-3	SUN0315-2405	1+44.00	7-3C	VCP	8	138	0.40%	3649
SUN0315-2295	5+50.94	7-3A-4A	SUN0315-2300	10+72.00	7-3A-4A	VCP	8	521	0.83%	3648
SUN0315-3965	371+85.37	7-22	SUN0315-2295	5+50.94	7-3A-4A	VCP	8	540	0.36%	3649 / 3648
SUN0315-0250	10+00.00	7-3C	SUN0315-0255	12+50.00	7-3C	VCP	8	250	17.03%	3749
SUN0315-0245	6+50.00	7-3C	SUN0315-0250	10+00.00	7-3C	VCP	8	350	8.96%	3749
SUN0315-0240	3+50.00	7-3C	SUN0315-0245	6+50.00	7-3C	VCP	8	300	3.60%	3749
SUN0315-0235	26+72.79	7-3C	SUN0315-0240	3+50.00	7-3C	VCP	8	350	2.60%	3749
LA SIERRA PL							· ·			
HAT0000-0605	1+93.97	TR-3914	HAT0000-0610	5+03.97	TR-3914	VCP	8	310	0.40%	3551
HAT0000-0595	25+74.39	TR-3914	HAT0000-0605	1+93.97	TR-3914	VCP	8	194	0.40%	3551
LABURNUM DR										
SUN0315-0950	5+01.70	RS-237	SUN0315-1005	3+70.00	RS-235	VCP	8	370	0.32%	3947
LAKE COURT RD										
HAT0000-0175	1+58.48	TR-9271	HAT0000-0180	5+08.12	TR-9271	VCP	8	346	3.37%	3651
HAT0000-0170	0+00.00	TR-9271	HAT0000-0175	1+58.48	TR-9271	VCP	8	154	2.80%	3651
LAMBETH WY										
RED0355-0055	11+95.00	AD-2	RED0355-0060	14+45.00	AD-2	VCP	8	250	0.80%	3646
RED0355-0050	8+60.00	AD-2	RED0355-0055	11+95.00	AD-2	VCP	8	335	0.80%	3746 / 3646
RED0355-0045	4+80.00	AD-5A	RED0355-0050	8+60.00	AD-2	VCP	8	380	1.00%	3746
RED0355-0030	3+35.57	AD-2	RED0355-0045	4+80.00	AD-5A	VCP	8	480	0.80%	3746
LANAI WY										
SUN0315-0920	2+45.79	TR-4203	SUN0315-0925	0+12.00	TR-4203	VCP	8	260	0.24%	3947
SUN0315-0087	60+76.78	7-36	SUN0315-0920	2+45.79	TR-4203	VCP	8	207	0.24%	3947
LANCE DR										
SUN0315-0640	1+96.50	TR-4418	SUN0315-0645	5+03.50	TR-4418	VCP	8	307	0.32%	3947 / 4047
SUN0315-0635	10+55.65	7-36	SUN0315-0640	1+96.50	TR-4418	VCP	8	159	0.32%	3947
SUN0315-0570	3+57.00	TR-4334	SUN0315-0575	5+52.00	TR-4334	VCP	8	195	0.76%	3946
SUN0315-0565	1+35.00	TR-4334	SUN0315-0570	3+57.00	TR-4334	VCP	8	222	0.76%	3946
SUN0315-0560	6+44.00	TR-4317	SUN0315-0565	1+35.00	TR-4334	VCP	8	135	0.76%	3946
SUN0315-0555	3+02.00	TR-4317	SUN0315-0560	6+44.00	TR-4317	VCP	8	342	0.24%	3947 / 3946
SUN0315-0550	11+41.67	7-36	SUN0315-0555	3+02.00	TR-4317	VCP	8	247	0.24%	3947
* SUN0315-0070	44+53.60	7-36	SUN0315-0550	11+41.67	7-36	VCP	8	136	5.75%	3947
HAT0205-0135	2+68.00	RS-321	HAT0205-0140	4+05.00	RS-321	VCP	8	137	0.40%	4047
HAT0205-0130	5+48.00	RS-321	HAT0205-0135	2+68.00	RS-321	VCP	8	268	0.32%	4047
HAT0205-0060	3+68.11	RS-263	HAT0205-0065	0+04.00	RS-261	VCP	8	372	-0.32%	4047
HAT0205-0060	3+68.11	RS-263	HAT0205-0062	4+75.00	RS-263	VCP	8	106	0.32%	4047
LANDFAIR CIR										
SUN0315-2070	2+81.35	AD-5A	SUN0315-2075	2+11.80	AD-5A	VCP	8	212	0.48%	3748
SUN0315-2065	4+95.33	AD-5A	SUN0315-2070	2+81.35	AD-5A	VCP	8	281	0.40%	3748
LANGDALE LN										
RED0145-0170	1+60.69	RS-542	RED0145-0210	1+11.00	RS-542	VCP	8	111	0.40%	4045
RED0145-0170	1+60.69	RS-542	RED0145-0175	1+05.00	RS-542	VCP	8	105	0.40%	4045

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
LANSDOWNE LN										
SUN0315-2430	4+89.00	TR-4849	SUN0315-2450	3+12.00	TR-4849	VCP	8	330	5.92%	3649
LARCHWOOD LN										
SUN0315-3375	6+98.00	AD-5A	SUN0315-3380	2+05.00	7-3B	VCP	8	205	0.29%	3749
LARIAT LN										
SUN0480-1020	12+48.64	TR-12489	SUN0480-1025	14+54.29	TR-12489	VCP	8	202	2.00%	3547 / 3548
SUN0480-0950	15+19.51	TR-12489	SUN0480-1020	12+48.64	TR-12489	VCP	8	245	2.00%	3547
LARKSTONE DR										
RED0485-0180	2+13.02	AD-3A	RED0485-0190	3+13.02	AD-3A	VCP	8	100	0.60%	3446
RED0485-0130	13+45.54	AD-3A	RED0485-0180	2+13.02	AD-3A	VCP	8	213	0.60%	3446
RED0485-0145	6+77.00	AD-3A	RED0485-0155	7+57.00	AD-3A	VCP	8	80	1.60%	3446
RED0485-0140	2+94.99	AD-3A	RED0485-0145	6+77.00	AD-3A	VÇP	8	382	0.60%	3446
RED0485-0135	0+34.99	AD-3A	RED0485-0140	2+94.99	AD-3A	VCP	8	260	0.24%	3446
RED0485-0130	13+45.54	AD-3A	RED0485-0135	0+34.99	AD-3A	VCP	8	35	0.24%	3446
LAS BRISAS DR										
HAT0360-0010	4+55.78	TR-7454	HAT0360-0015	7+11.68	TR-5725	VCP	8	256	4.60%	3749
HAT0360-0005	2+10.61	TR-7454	HAT0360-0010	4+55.78	TR-7454	VCP	8	245	3.60%	3749
HAT0360-0000	0+05.00	TR-7454	HAT0360-0005	2+10.61	TR-7454	VCP	8	216	0.60%	3750 / 3749
LAS LUCES										
HAT0000-0100	8+34.43	TR-8640	HAT0000-0105	9+67.27	TR-8640	VCP	8	129	7.96%	3750
HAT0000-0095	6+54.43	TR-8640	HAT0000-0100	8+34.43	TR-8640	VCP	8	176	14.00%	3750
HAT0000-0090	4+74.43	TR-8640	HAT0000-0095	6+54.43	TR-8640	VCP	8	176	13.60%	3750
HAT0000-0085	3+15.92	TR-8640	HAT0000-0090	4+74.43	TR-8640	VCP	8	155	8.96%	3750
HAT0000-0080	1+50.35	TR-8640	HAT0000-0085	3+15.92	TR-8640	VCP	8	162	10.40%	3750
HAT0000-0060	6+39.93	TR-8640	HAT0000-0080	1+50.35	TR-8640	VCP	8	146	4.64%	3750
LAS NINAS DR										
SUN0480-0645	11+74.81	TR-5576	SUN0480-0650	13+21.41	TR-5576	VCP	8	147	2.20%	3648
SUN0480-0640	9+66.98	TR-5576	SUN0480-0645	11+74.81	TR-5576	VCP	8	208	3.00%	3648
LAS PALMAS DR										
HAT0360-0010	4+55.78	TR-7454	HAT0360-0020	3+60.69	TR-7454	VCP	8	356	5.16%	3749 / 3750
LASSEN DR										
SUN0500-0165	1+55.00	AD3B	SUN0500-0170	0+22.71	TR-9669	VCP	8	19	1.40%	3547
SUN0500-0135	8+13.29	AD3B	SUN0500-0165	1+55.00	AD3B	VCP	8	155	1.40%	3547
RED0455-0010	3+77.00	AD3B	RED0455-0015	3+10.00	AD3B	VCP	8	310	0.40%	3546
RED0435-0075	18+65.96	AD3B	RED0435-0080	3+00.00	AD3B	VCP	8	300	1.00%	3546 / 3547
LASSEN WY										·
RED0455-0005	3+76.00	AD3B	RED0455-0010	3+77.00	AD3B	VCP	8	377	0.40%	3546
LAURIE LN										
RED0420-0420	2+86.00	7-11-2	RED0420-0425	5+77.51	AD-3A	VCP	8	292	0.40%	3645
RED0420-0165	1+32.00	SSI-D	RED0420-0420	2+86.00	7-11-2	VCP	8	268	1.00%	3646 / 3645
RED0395-0250	4+73.50	AD3A	RED0395-0270	3+17.00	AD-3A	VCP	8	317	0.48%	3645
RED0395-0075	1+16.00	RS-155	RED0395-0185	0+00.00	RS-153	VCP	8	234	0.50%	3645
RED0390-0615	4+12.76	X-23	RED0390-0620	0+84.87	X-23	VCP	8	328	0.52%	3644 / 3544

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
RED0390-0610	7+47.76	X-23	RED0390-0615	4+12.76	X-23	VCP	8	335	0.52%	3644
RED0390-0605	10+82.76	X-23	RED0390-0610	7+47.76	X-23	VCP	8	335	0.52%	3644
RED0390-0600	2+68.80	RS-334	RED0390-0605	10+82.76	X-23	VCP	8	264	0.36%	3645 / 3644
RED0390-0585	2+35.00	RS-337	RED0390-0590	10+55.11	X-24	VCP	8	240	0.36%	3645
RED0390-0580	0+05.00	RS-990	RED0390-0585	2+35.00	RS-337	VCP	8	63	0.37%	3645
RED0390-0060	150+50.00	RS-337	RED0390-0580	0+05.00	RS-990	VCP	8	178	0.66%	3645
URINDA WY										
RED0420-0425	5+77.51	AD-3A	RED0420-0430	3+10.39	AD-3A	VCP	8	310	0.60%	3645
RED0420-0405	5+79.54	AD-3A	RED0420-0410	2+20.00	7-48	VCP	8	220	0.60%	3645
RED0420-0365	5+34.00	AD-3A	RED0420-0370	8+70.60	AD-3A	VCP	8	337	0.60%	3545
RED0420-0360	2+34.00	AD-3A	RED0420-0365	5+34.00	AD-3A	VCP	8	300	0.60%	3545
RED0420-0200	6+30.58	7-4B	RED0420-0360	2+34.00	AD-3A	VCP	8	234	1.40%	3545
RED0420-0205	6+75.00	TR-5214	RED0420-0355	3+00.00	TR-5214	VCP	8	300	0.24%	3545
RED0420-0300	2+96.00	TR-3574	RED0420-0305	5+75.66	TR-3574	VCP	8	280	1.00%	3545
RED0420-0280	9+16.61	TR-3574	RED0420-0300	2+96.00	TR-3574	VCP	8	300	0.40%	3545
RED0395-0015	6+43.57	7-11-2	RED0395-0020	9+82.97	AD-3A	VCP	8	339	0.40%	3645
RED0395-0010	3+02.57	7-11-2	RED0395-0015	6+43.57	7-11-2	VCP	8	341	0.40%	3645
RED0395-0005	1+05.54	7-4B	RED0395-0010	3+02.57	7-11-2	VCP	8	303	1.60%	3645
RED0395-0000	108+89.70	7-41	RED0395-0005	1+05.54	7-4B	VCP	8	9	48.90%	3645
RED0365-0010	2+82.50	AD-2	RED0365-0095	2+00.00	AD-2	VCP	8	200	1.60%	3745
AFWOOD LN										
RED0420-0400	2+88.54	AD-3A	RED0420-0405	5+79.54	AD-3A	VCP	8	291	0.40%	3646 / 3645
RED0420-0175	7+21.50	SSI-D	RED0420-0400	2+88.54	AD-3A	VCP	8	272	1.00%	3646
RED0420-0110	15+64.00	TR-4005	RED0420-0115	19+47.00	TR-4005	VCP	8	383	2.24%	3646
RED0420-0105	13+39.00	TR-4005	RED0420-0110	15+64.00	TR-4005	VCP	8	225	0.40%	3646
RED0420-0100	10+89.00	TR-4251	RED0420-0105	13+39.00	TR-4005	VCP	8	250	0.40%	3646
RED0420-0050	2+21.00	AD3B	RED0420-0055	4+21.00	AD3B	VCP	8	200	0.40%	3646 / 3546
RED0420-0045	16+32.00	TR-4186	RED0420-0050	2+21.00	AD3B	VCP	8	221	0.40%	3646
RED0420-0040	13+87.00	TR-4186	RED0420-0045	16+32.00	TR-4186	VCP	8	245	0.44%	3646
RED0395-0175	3+00.00	TR-3541	RED0395-0180	0+75.00	TR-3541	VCP	8	225	0.40%	3645
RED0395-0085	1+51.30	TR-3541	RED0395-0175	3+00.00	TR-3541	VCP	8	221	0.80%	3645
RED0395-0084	UNK	UNK	RED0395-0310	UNK	UNK	VCP	8	83	0.00%	3645
AR LN										
SUN0315-0620	2+86.00	TR-4334	SUN0315-0625	1+99.00	TR-4334	VCP	8	199	0.80%	3946
HAT0205-0070	3+07.18	RS-261	HAT0205-0080	1+25.00	RS-262	VCP	8	129	0.32%	4047
MON CIR										
SUN0430-1545	0+60.20	TR-3556	SUN0430-1550	2+15.26	TR-3556	VCP	8	155	14.10%	3549
SUN0430-1525	3+06.44	TR-3556	SUN0430-1545	0+60.20	TR-3556	VCP	8	60	2.49%	3549
MON HEIGHTS DR										
HAT0000-0245	10+03.34	SSI-D	HAT0000-0250	11+08.34	SSI-D	VCP	8	105	10.00%	3651
HAT0000-0240	6+26.85	SSI-D	HAT0000-0245	10+03.34	SSI-D	VCP	8	376	1.00%	3650 / 3651
HAT0000-0235	5+87.08	SSI-D	HAT0000-0240	6+26.85	SSI-D	VCP	8	40	0.81%	3650
HAT0000-0230	3+44.03	TR-8622	HAT0000-0235	5+87.08	SSI-D	VCP	8	253	0.50%	3650
PS-HAT	UNK	UNK	HAT0000-0230	3+44.03	TR-8622	VCP	8	93	2.28%	3650

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
HAT0000-0220	1+58.29	TR-8622	HAT0000-0225	0+00.00	TR-8622	VCP	8	154	-1.91%	3650
PS-HAT	UNK	UNK	HAT0000-0220	1+58.29	TR-8622	VCP	8	81	-1.00%	3650
HAT0000-0200	4+22.00	SSI-D	HAT0000-0215	5+90.25	TR-8622	VCP	8	186	4.62%	3651
HAT0000-0205	6+00.00	SSI-D	HAT0000-0210	8+17.04	SSI-D	VCP	8	217	9.53%	3651
HAT0000-0200	4+22.00	SSI-D	HAT0000-0205	6+00.00	SSI-D	VCP	8	178	4.72%	3651
HAT0000-0150	9+31.60	TR-9688	HAT0000-0155	UNK	TR-9688	VCP	8	349	0.40%	3750
HAT0000-0145	8+72.83	TR-9688	HAT0000-0150	9+31.60	TR-9688	VCP	8	59	0.40%	3750
HAT0000-0140	3+97.00	TR-9688	HAT0000-0145	8+72.83	TR-9688	VCP	8	469	0.40%	3751 / 3750
MON HILL DR										
SUN0430-1520	4+34.71	TR-3556	SUN0430-1540	6+17.71	TR-3556	VCP	8	183	15.26%	3549
SUN0430-1515	3+39.19	TR-3556	SUN0430-1520	4+34.71	TR-3556	VCP	8	96	14.99%	3549
SUN0430-0155	0+00.00	TR-3556	SUN0430-1515	3+39.19	TR-3556	VCP	8	339	2.32%	3549
MON LEAF LN										
SUN0430-1530	3+90.00	TR-3556	SUN0430-1535	6+41.25	TR-3556	VCP	8	251	9.38%	3549
SUN0430-1525	3+06.44	TR-3556	SUN0430-1530	3+90.00	TR-3556	VCP	8	83	3.29%	3549
SUN0430-1520	4+34.71	TR-3556	SUN0430-1525	3+06.44	TR-3556	VCP	8	304	0.40%	3549
MONA LN										
HAT0255-0145	1+56.78	AD-4	HAT0255-0150	5+74.40	AD-4	VCP	8	418	0.46%	3848 / 3849
HAT0255-0140	3+72.24	AD-4	HAT0255-0145	1+56.78	AD-4	VCP	8	157	2.00%	3848
ON PL										
SUN0415-0185	3+43.00	AD-2	SUN0415-0250	4+42.00	AD-2	VCP	8	442	2.00%	3846
ON WY										
SUN0415-0250	4+42.00	AD-2	SUN0415-0255	2+08.00	AD-2	VCP	8	208	0.40%	3846
RNER LN										
SUN0315-3520	6+02.48	TR-5413	SUN0315-3525	8+84.00	TR-5413	VCP	8	282	2.71%	3749
SUN0315-3515	2+40.00	TR-5413	SUN0315-3520	6+02.48	TR-5413	VCP	8	362	0.50%	3749
SUN0315-3510	1+80.00	TR-5413	SUN0315-3515	2+40.00	TR-5413	VCP	8	60	4.66%	3749
HAT0335-0095	1+32.37	TR-3883	HAT0335-0100	4+19.59	TR-3883	VCP	8	289	9.45%	3850 / 3750
HAT0335-0015	4+47.91	TR-3883	HAT0335-0095	1+32.37	TR-3883	VCP	8	132	8.74%	3850
TTY LN										
SUN0315-0760	1+70.84	TR-4494	SUN0315-0765	3+88.00	TR-8616	VCP	8	388	0.32%	3946
ANE LN										
HAT0335-0045	9+05.70	TR-3883	HAT0335-0050	11+05.70	TR-3883	VCP	8	200	0.32%	3850
HAT0335-0040	6+57.68	TR-3883	HAT0335-0045	9+05.70	TR-3883	VCP	8	248	0.32%	3850
HAT0335-0035	3+20.00	TR-3883	HAT0335-0040	6+57.68	TR-3883	VCP	8	338	0.32%	3850
HAT0335-0030	11+06.00	TR-3883	HAT0335-0035	3+20.00	TR-3883	VCP	8	316	0.32%	3850
LLIAN WY										
SUN0415-0195	8+57.00	AD-2	SUN0415-0200	11+32.00	AD-2	VCP	8	275	0.24%	3846
SUN0415-0190	5+94.00	AD-5A	SUN0415-0195	8+57.00	AD-2	VCP	8	263	0.40%	3846
SUN0415-0185	3+43.00	AD-2	SUN0415-0190	5+94.00	AD-5A	VCP	8	251	0.40%	3846
SUN0415-0020	20+12.33	7-39	SUN0415-0185	3+43.00	AD-2	VCP	8	328	0.78%	3846
METREE DR										
SUN0315-3065	15+39.87	TR-5009	SUN0315-3070	18+85.01	TR-5009	VCP	8	345	0.72%	3650

SUNDITIS-3060 13-42.85 TH-5009	DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0315-2965 5-10.278 TR. 5009 SUN0315-2975 TR. 5009 VCP 8 305 1.36% 3650 / 3850	SUN0315-3060	13+42.85	TR-5009	SUN0315-3065	15+39.87	TR-5009	VCP	8	197	4.36%	3650
SUN01315-2960 34:55.12 TR-5009 SUN01315-2965 51:02.78 TR-5000 VCP 8 239 11:36% 3550	SUN0315-2970	8+07.56	TR-5009	SUN0315-3015	9+06.12	TR-5009	VCP	8	99	6.04%	3650
SUN0315-2020 2-04.60 TR-4855 SUN0315-2950 3-55.12 TR-5009 VCP 8 2.39 11.30% 3550	SUN0315-2965	5+02.78	TR-5009	SUN0315-2970	8+07.56	TR-5009	VCP	8	305	1.36%	3650
SUN0315-2820 2+04.60	SUN0315-2960	3+55.12	TR-5009	SUN0315-2965	5+02.78	TR-5009	VCP	8	148	7.32%	3550 / 3650
RED0400-0070	SUN0315-2955	1+15.63	TR-4855	SUN0315-2960	3+55.12	TR-5009	VCP	8	239	11.36%	3550
RED0409-0070	SUN0315-2820	2+04.60	TR-4855	SUN0315-2955	1+15.63	TR-4855	VCP	8	116	1.48%	3550
RED0390-0760	LIMETREE WY										
Product	RED0400-0070	4+31.00	TR-4511	RED0400-0085	2+52.52	TR-4511	VCP	8	257	0.84%	3646
REDD/320-0430 3+10.39	RED0390-0760	5+42.12	RS-980C	RED0390-0765	1+83.00	RS-980D	VCP	8	179	1.00%	3645
RED0395-0195	LINDA LN										
SUN0480-0765	RED0420-0430	3+10.39	AD-3A	RED0420-0435	4+33.00	7-11-2	VCP	8	433	0.40%	3645 / 3646
SUN0480-0765	RED0395-0195	4+03.00	RS-153	RED0395-0200	1+42.00	RS-156	VÇP	8	142	0.32%	3645
SUNO480-0760 2+74.00 AD-3B SUNO480-0765 5+53.35 AD-3B VCP 8 279 1.20% 3647	LINDALE LN										
SUN0480-0590 2+74.05 7-38 SUN0480-0760 2+74.00 AD-38 VCP 8 274 1.00% 3647 IUNIOSTON ST IUNIOSTON ST SUN0415-0300 11+13.00 AD-5A SUN0415-0350 1+20.00 7-20 VCP 8 120 0.40% 3746 SUN0415-0310 6+84.25 AD-5A SUN0415-0335 12+17.00 AD-2 VCP 8 203 0.80% 3746 SUN0415-0310 6+84.25 AD-5A SUN0415-0315 10+14.25 AD-2 VCP 8 330 0.80% 3746 SUN0415-0305 3+46.00 AD-5A SUN0415-0315 AD-5A VCP 8 338 0.80% 3746 SUN0415-0300 11+13.00 AD-5A SUN0415-0310 6+84.25 AD-5A VCP 8 346 1.40% 3746 SUN0415-0300 11+13.00 AD-5A SUN0415-0305 3+46.00 AD-2 VCP 8 346 1.40% 3746 SUN0415-0210 6+86.00 AD-2 SUN0415-0203 8+26.00 AD-2 VCP 8 140 2.60% 3846 SUN0415-0205 4+50.00 AD-2 SUN0415-0205 AD-2 VCP 8 236 0.24% 3846 SUN0415-0200 11+32.00 AD-2 SUN0415-0205 4+50.00 AD-2 VCP 8 231 1.40% 3746/3646 RED0355-0075 20+96.00 TR-5244 RED0355-0085 22+00.00 TR-5244 VCP 8 231 1.40% 3746/3646 RED0355-0075 20+96.00 TR-5244 RED0355-0085 23+00.00 TR-5244 VCP 8 319 1.00% 3746 RED0355-0055 13+60.00 AD-2 RED0355-0055 12+60.00 AD-2 RED0355-0055 12+60.00 AD-2 RED0355-0055	SUN0480-0765	5+53.35	AD-3B	SUN0480-0770	7+69.00	AD-3B	VCP	8	216	1.20%	3647
SUN0415-0300	SUN0480-0760	2+74.00	AD-3B	SUN0480-0765	5+53.35	AD-3B	VCP	8	279	1.20%	3647
SUN0415-0300	SUN0480-0590	2+74.05	7-3B	SUN0480-0760	2+74.00	AD-3B	VCP	8	274	1.00%	3647
SUN0415-0315 10+14.25 AD-2	LIVINGSTON ST										
SUN0415-0310 6+84.25 AD-5A SUN0415-0315 10+14.25 AD-2 VCP 8 330 0.80% 3746 SUN0415-0305 3446.00 AD-2 SUN0415-0310 6+84.25 AD-5A VCP 8 338 0.80% 3746 SUN0415-0300 11+13.00 AD-5A SUN0415-0305 3+46.00 AD-2 VCP 8 346 1.40% 3746 SUN0415-0210 6+86.00 AD-2 SUN0415-0210 6+86.00 AD-2 VCP 8 236 0.24% 3846 SUN0415-0205 4+50.00 AD-2 SUN0415-0205 4+50.00 AD-2 VCP 8 236 0.24% 3846 SUN0415-0200 11+32.00 AD-2 SUN0415-0205 4+50.00 AD-2 VCP 8 236 0.24% 3846 SUN0315-0205 13+60.00 TE-5244 RED0355-0005 25+31.00 TE-5244 VCP 8 231 1.40% 3746 RED0355-0075 20+96.00	SUN0415-0300	11+13.00	AD-5A	SUN0415-0350	1+20.00	7-20	VCP	8	120	0.40%	3746
SUN0415-0305 3+46.00 AD-2 SUN0415-0310 6+84.25 AD-5A VCP 8 338 0.80% 3746 SUN0415-0300 11+13.00 AD-5A SUN0415-0305 3+46.00 AD-2 VCP 8 346 1.40% 3746 SUN0415-0210 6+86.00 AD-2 VCP 8 140 2.60% 3846 SUN0415-0205 4+50.00 AD-2 SUN0415-0210 6+86.00 AD-2 VCP 8 236 0.24% 3846 SUN0415-0200 11+32.00 AD-2 SUN0415-0205 4+50.00 AD-2 VCP 8 236 0.24% 3846 AD-2 VCP AD-2	SUN0415-0315	10+14.25	AD-2	SUN0415-0330	12+17.00	AD-2	VCP	8	203	0.80%	3746
SUN0415-0300	SUN0415-0310	6+84.25	AD-5A	SUN0415-0315	10+14.25	AD-2	VCP	8	330	0.80%	3746
SUN0415-0210 6+86.00 AD-2 SUN0415-0230 8+26.00 AD-2 VCP 8 140 2.60% 3846 SUN0415-0205 4+50.00 AD-2 SUN0415-0210 6+86.00 AD-2 VCP 8 236 0.24% 3846 SUN0415-0200 11+32.00 AD-2 SUN0415-0205 4+50.00 AD-2 VCP 8 236 0.24% 3846 SUN0415-0200 11+32.00 AD-2 SUN0415-0205 4+50.00 AD-2 VCP 8 450 0.30% 3846 RED0355-0005 23+00.00 TR-5244 VCP 8 231 1.00% 3746 / 3646 RED0355-0070 17+77.00 TR-5244 RED0355-005 2496.00 TR-5244 VCP 8 319 1.00% 3746 / 3646 RED0355-0075 13+60.00 TR-5244 RED0355-005 14-62.00 TR-5244 VCP 8 315 1.00% 3746 RED0355-0050 13+60.00 AD-2 RED0355-0065 14+62.	SUN0415-0305	3+46.00	AD-2	SUN0415-0310	6+84.25	AD-5A	VCP	8	338	0.80%	3746
SUN0415-0205	SUN0415-0300	11+13.00	AD-5A	SUN0415-0305	3+46.00	AD-2	VCP	8	346	1.40%	3746
SUN0415-0200 11+32.00 AD-2 SUN0415-0205 4+50.00 AD-2 VCP 8 450 0.30% 3846 RED0355-0080 23+00.00 TR-5244 RED0355-0085 25+31.00 TR-5244 VCP 8 231 1.40% 3746 / 3646 RED0355-0075 20+96.00 TR-5244 RED0355-0080 23+00.00 TR-5244 VCP 8 204 1.00% 3746 RED0355-0070 17+77.00 TR-5244 RED0355-0075 20+96.00 TR-5244 VCP 8 319 1.00% 3746 RED0355-0055 14+62.00 TR-5244 RED0355-0070 17+77.00 TR-5244 VCP 8 315 1.00% 3746 RED0355-0025 13+60.00 AD-2 RED0355-0070 17+5244 VCP 8 315 1.00% 3746 RED0355-0025 13+60.00 AD-2 RED0355-0065 14+62.00 TR-5244 VCP 8 321 0.60% 3746 RED0285-0005 2+52.00 S-125 RED0285-0010 4+87.00 S-125 VCP 8 235 0.40% 3845 * RED0285-0000 60+06.19 7-41 RED0285-0005 2+52.00 S-125 VCP 8 268 0.97% 3845 * RED0285-0000 TR-5244 VCP 8 235 0.40% 3845 * RED0285-0000 TR-5244 VCP 8 268 0.97% 3845 * RED0285-0000 TR-5244 VCP 8 272 0.80% 3749 / 3649 * SUN0315-2285 2+72.05 TR-7127 VCP 8 272 0.80% 3749 / 3649 * SUN0315-3455 T-47.14 AD-5A SUN0315-3455 T-47.14 AD-5A VCP 8 241 9.88% 3849 * SUN0315-3445 2+07.02 AD-5A SUN0315-3455 T-47.14 AD-5A VCP 8 299 10.68% 3849 * SUN0315-3440 0+20.00 AD-5A SUN0315-3445 2+07.02 AD-5A VCP 8 299 10.68% 3849 * SUN0315-3440 0+20.00 AD-5A SUN0315-3440 0+20.00 AD-5A VCP 8 187 11.16% 3849 * SUN0315-3410 13+50.00 7-3C SUN0315-3440 0+20.00 AD-5A VCP 8 25 2.88% 3849	SUN0415-0210	6+86.00	AD-2	SUN0415-0230	8+26.00	AD-2	VCP	8	140	2.60%	3846
RED0355-0080 23+00.00 TR-5244 RED0355-0085 25+31.00 TR-5244 VCP 8 231 1.40% 3746 / 3646 RED0355-0075 20+96.00 TR-5244 RED0355-0080 23+00.00 TR-5244 VCP 8 204 1.00% 3746 RED0355-0070 17+77.00 TR-5244 RED0355-0075 20+96.00 TR-5244 VCP 8 319 1.00% 3746 RED0355-0065 14+62.00 TR-5244 RED0355-0070 17+77.00 TR-5244 VCP 8 315 1.00% 3746 RED0355-0065 13+60.00 AD-2 RED0355-0065 14+62.00 TR-5244 VCP 8 315 1.00% 3746 RED0355-0025 13+60.00 AD-2 RED0355-0065 14+62.00 TR-5244 VCP 8 321 0.60% 3746 RED0355-0025 13+60.00 AD-2 RED0355-0065 14+62.00 TR-5244 VCP 8 321 0.60% 3746 RED0285-0005 2+52.00 S-125 VCP 8 235 0.40% 3845 RED0285-0000 60+06.19 7-41 RED0285-0005 2+52.00 S-125 VCP 8 268 0.97% 3845 RED0285-0000 60+06.19 7-41 RED0285-0005 2+52.00 S-125 VCP 8 268 0.97% 3845 RED0285-0000 4+70.00 TR-7127 SUN0315-2290 3+68.29 TR-7127 VCP 8 96 7.15% 3649 SUN0315-2280 4+70.00 TR-7127 SUN0315-2285 2+72.05 TR-7127 VCP 8 272 0.80% 3749 / 3649 RDMAROJA SUN0315-3455 7+47.14 AD-5A SUN0315-3450 S+05.70 AD-5A SUN0315-3440 0+20.00 AD-5A SUN0315-3440 0+20.00 AD-5A SUN0315-3440 0+20.00 AD-5A VCP 8 187 11.16% 3849 SUN0315-3440 0+20.00 AD-5A SUN0315-	SUN0415-0205	4+50.00	AD-2	SUN0415-0210	6+86.00	AD-2	VCP	8	236	0.24%	3846
RED0355-0075 20+96.00 TR-5244 RED0355-0080 23+00.00 TR-5244 VCP 8 204 1.00% 3746 RED0355-0070 17+77.00 TR-5244 RED0355-0075 20+96.00 TR-5244 VCP 8 319 1.00% 3746 RED0355-0065 14+62.00 TR-5244 RED0355-0070 17+77.00 TR-5244 VCP 8 315 1.00% 3746 RED0355-0025 13+60.00 AD-2 RED0355-0065 14+62.00 TR-5244 VCP 8 321 0.60% 3746 RED0355-0025 13+60.00 AD-2 RED0355-0065 14+62.00 TR-5244 VCP 8 321 0.60% 3746 RED0285-0005 2+52.00 S-125 RED0285-0010 4+87.00 S-125 VCP 8 235 0.40% 3845 RED0285-0000 60+06.19 7-41 RED0285-0005 2+52.00 S-125 VCP 8 268 0.97% 3845 RED0285-0000 60+06.19 7-41 RED0285-0005 2+52.00 S-125 VCP 8 268 0.97% 3845 RED0285-0000 60+06.19 TR-7127 SUN0315-2290 3+68.29 TR-7127 VCP 8 96 7.15% 3649 SUN0315-2280 4+70.00 TR-7127 SUN0315-2285 2+72.05 TR-7127 VCP 8 272 0.80% 3749/3649 RED0355-3455 7+47.14 AD-5A SUN0315-3450 5+05.70 AD-5A SUN0315-3450 5+05.70 AD-5A SUN0315-3455 7+47.14 AD-5A VCP 8 299 10.68% 3849 SUN0315-3445 2+07.02 AD-5A SUN0315-3440 0+20.00 A	SUN0415-0200	11+32.00	AD-2	SUN0415-0205	4+50.00	AD-2	VCP	8	450	0.30%	3846
RED0355-0070 17+77.00 TR-5244 RED0355-0075 20+96.00 TR-5244 VCP 8 319 1.00% 3746 RED0355-0065 14+62.00 TR-5244 RED0355-0070 17+77.00 TR-5244 VCP 8 315 1.00% 3746 RED0355-0025 13+60.00 AD-2 RED0355-0065 14+62.00 TR-5244 VCP 8 321 0.60% 3746 RED0355-0025 13+60.00 AD-2 RED0355-0065 14+62.00 TR-5244 VCP 8 321 0.60% 3746 RED0285-0005 2+52.00 S-125 VCP 8 235 0.40% 3845 RED0285-0000 60+06.19 7-41 RED0285-0005 2+52.00 S-125 VCP 8 268 0.97% 3845 RED0285-0000 60+06.19 7-41 RED0285-0005 2+52.00 S-125 VCP 8 268 0.97% 3845 RED0285-285 2+72.05 TR-7127 SUN0315-2290 3+68.29 TR-7127 VCP 8 96 7.15% 3649 SUN0315-2280 4+70.00 TR-7127 SUN0315-2285 2+72.05 TR-7127 VCP 8 272 0.80% 3749 / 3649 RED0355-3455 7+47.14 AD-5A SUN0315-3460 8+86.38 AD-5A VCP 8 139 11.68% 3849 SUN0315-3450 5+05.70 AD-5A SUN0315-3455 7+47.14 AD-5A VCP 8 299 10.68% 3849 SUN0315-3445 2+07.02 AD-5A SUN0315-3445 2+07.02 AD-5A SUN0315-3445 2+07.02 AD-5A SUN0315-3445 2+07.02 AD-5A SUN0315-3440 0+20.00 AD-5A	RED0355-0080	23+00.00	TR-5244	RED0355-0085	25+31.00	TR-5244	VCP	8	231	1.40%	3746 / 3646
RED0355-0065 14+62.00 TR-5244 RED0355-0070 17+77.00 TR-5244 VCP 8 315 1.00% 3746 RED0355-0025 13+60.00 AD-2 RED0355-0065 14+62.00 TR-5244 VCP 8 321 0.60% 3746 LOCKWOOD PARK PL RED0285-0005 2+52.00 S-125 VCP 8 235 0.40% 3845 * RED0285-0000 60+06.19 7-41 RED0285-0005 2+52.00 S-125 VCP 8 268 0.97% 3845 LOMA LINDA WY SUN0315-2285 2+72.05 TR-7127 SUN0315-2290 3+68.29 TR-7127 VCP 8 96 7.15% 3649 SUN0315-2280 4+70.00 TR-7127 SUN0315-2285 2+72.05 TR-7127 VCP 8 272 0.80% 3749 / 3649 LOMA ROJA SUN0315-3455 7+47.14 AD-5A SUN0315-3460 8+86.38 AD-5A VCP 8 139 11.68% 3849 SUN0315-3450 5+05.70 AD-5A SUN0315-3455 7+47.14 AD-5A VCP 8 299 10.68% 3849 SUN0315-3445 2+07.02 AD-5A SUN0315-3450 5+05.70 AD-5A SUN0315-3450 5+05.70 AD-5A SUN0315-3445 2+07.02 AD-5A SUN0315-3445 2+07.02 AD-5A SUN0315-3440 0+20.00 AD-5A	RED0355-0075	20+96.00	TR-5244	RED0355-0080	23+00.00	TR-5244	VCP	8	204	1.00%	3746
RED0355-0025 13+60.00 AD-2 RED0355-0065 14+62.00 TR-5244 VCP 8 321 0.60% 3746 LOCKWOOD PARK PL RED0285-0005 2+52.00 S-125 RED0285-0010 4+87.00 S-125 VCP 8 235 0.40% 3845 * RED0285-0000 60+06.19 7-41 RED0285-0005 2+52.00 S-125 VCP 8 268 0.97% 3845 LOMA LINDA WY SUN0315-2285 2+72.05 TR-7127 SUN0315-2290 3+68.29 TR-7127 VCP 8 96 7.15% 3649 SUN0315-2280 4+70.00 TR-7127 SUN0315-2285 2+72.05 TR-7127 VCP 8 272 0.80% 3749 / 3649 LOMA ROJA SUN0315-3455 7+47.14 AD-5A SUN0315-3460 8+86.38 AD-5A VCP 8 139 11.68% 3849 SUN0315-3450 5+05.70 AD-5A SUN0315-3455 7+47.14 AD-5A VCP 8 241 9.88% 3849 SUN0315-3445 2+07.02 AD-5A SUN0315-3450 5+05.70 AD-5A VCP 8 299 10.68% 3849 SUN0315-3440 0+20.00 AD-5A SUN0315-3445 2+07.02 AD-5A VCP 8 187 11.16% 3849 SUN0315-3440 0+20.00 AD-5A SUN0315-3440 0+20.00 AD-5A VCP 8 25 2.88% 3849	RED0355-0070	17+77.00	TR-5244	RED0355-0075	20+96.00	TR-5244	VCP	8	319	1.00%	3746
RED0285-0005 2+52.00 S-125 RED0285-0010 4+87.00 S-125 VCP 8 235 0.40% 3845	RED0355-0065	14+62.00	TR-5244	RED0355-0070	17+77.00	TR-5244	VCP	8	315	1.00%	3746
RED0285-0005 2+52.00 S-125 RED0285-0010 4+87.00 S-125 VCP 8 235 0.40% 3845 * RED0285-0000 60+06.19 7-41 RED0285-0005 2+52.00 S-125 VCP 8 268 0.97% 3845 * RED0285-0000 S-125 VCP 8 275 0.40% 3845 * RE	RED0355-0025	13+60.00	AD-2	RED0355-0065	14+62.00	TR-5244	VCP	8	321	0.60%	3746
* RED0285-0000 60+06.19 7-41 RED0285-0005 2+52.00 S-125 VCP 8 268 0.97% 3845 **LOMA LINDA WY** SUN0315-2285 2+72.05 TR-7127 SUN0315-2290 3+68.29 TR-7127 VCP 8 96 7.15% 3649 SUN0315-2280 4+70.00 TR-7127 SUN0315-2285 2+72.05 TR-7127 VCP 8 272 0.80% 3749 / 3649 **LOMA ROJA** SUN0315-3455 7+47.14 AD-5A SUN0315-3460 8+86.38 AD-5A VCP 8 139 11.68% 3849 SUN0315-3450 5+05.70 AD-5A SUN0315-3455 7+47.14 AD-5A VCP 8 241 9.88% 3849 SUN0315-3445 2+07.02 AD-5A SUN0315-3450 5+05.70 AD-5A VCP 8 299 10.68% 3849 SUN0315-3440 0+20.00 AD-5A SUN0315-3445 2+07.02 AD-5A VCP 8 187 11.16% 3849 SUN0315-3410 13+50.00 7-3C SUN0315-3440 0+20.00 AD-5A VCP 8 25 2.88% 3849	LOCKWOOD PARK PL										
SUN0315-2285 2+72.05 TR-7127 SUN0315-2290 3+68.29 TR-7127 VCP 8 96 7.15% 3649 SUN0315-2280 4+70.00 TR-7127 SUN0315-2285 2+72.05 TR-7127 VCP 8 272 0.80% 3749 / 3649 SUN0315-3455 7+47.14 AD-5A SUN0315-3460 8+86.38 AD-5A VCP 8 139 11.68% 3849 SUN0315-3450 5+05.70 AD-5A SUN0315-3455 7+47.14 AD-5A VCP 8 241 9.88% 3849 SUN0315-3445 2+07.02 AD-5A SUN0315-3450 5+05.70 AD-5A VCP 8 299 10.68% 3849 SUN0315-3440 0+20.00 AD-5A SUN0315-3445 2+07.02 AD-5A VCP 8 187 11.16% 3849 SUN0315-3410 13+50.00 7-3C SUN0315-3440 0+20.00 AD-5A VCP 8 25 2.88% 3849 SUN0315-3410 3+50.00 7-3C SUN0315-3440 0+20.00 AD-5A VCP 8 25 2.88% 3849 SUN0315-3410 3+50.00 7-3C SUN0315-3440 0+20.00 AD-5A VCP 8 25 2.88% 3849 SUN0315-3410 3+50.00 7-3C SUN0315-3440 0+20.00 AD-5A VCP 8 25 2.88% 3849 SUN0315-3410 3+50.00 7-3C SUN0315-3440 0+20.00 AD-5A VCP 8 25 2.88% 3849 SUN0315-3410 3+50.00 7-3C SUN0315-3440 0+20.00 AD-5A VCP 8 25 2.88% 3849 SUN0315-3410 3+50.00 7-3C SUN0315-3440 0+20.00 AD-5A VCP 8 25 2.88% 3849 SUN0315-3410 3+50.00 7-3C SUN0315-3440 0+20.00 AD-5A VCP 8 25 2.88% 3849 SUN0315-3410 3+50.00 7-3C SUN0315-3440 0+20.00 AD-5A VCP 8 25 2.88% 3849 SUN0315-3410 3+50.00 3+50	RED0285-0005	2+52.00	S-125	RED0285-0010	4+87.00	S-125	VCP	8	235	0.40%	3845
SUN0315-2285 2+72.05 TR-7127 SUN0315-2290 3+68.29 TR-7127 VCP 8 96 7.15% 3649 SUN0315-2280 4+70.00 TR-7127 SUN0315-2285 2+72.05 TR-7127 VCP 8 272 0.80% 3749 / 3649 LOMA ROJA SUN0315-3455 7+47.14 AD-5A SUN0315-3460 8+86.38 AD-5A VCP 8 139 11.68% 3849 SUN0315-3450 5+05.70 AD-5A SUN0315-3455 7+47.14 AD-5A VCP 8 241 9.88% 3849 SUN0315-3445 2+07.02 AD-5A SUN0315-3450 5+05.70 AD-5A VCP 8 299 10.68% 3849 SUN0315-3440 0+20.00 AD-5A SUN0315-3445 2+07.02 AD-5A VCP 8 187 11.16% 3849 SUN0315-3410 13+50.00 7-3C SUN0315-3440 0+20.00 AD-5A VCP 8 25 2.88% 3849	* RED0285-0000	60+06.19	7-41	RED0285-0005	2+52.00	S-125	VCP	8	268	0.97%	3845
SUN0315-2280 4+70.00 TR-7127 SUN0315-2285 2+72.05 TR-7127 VCP 8 272 0.80% 3749 / 3649 LOMA ROJA SUN0315-3455 7+47.14 AD-5A SUN0315-3460 8+86.38 AD-5A VCP 8 139 11.68% 3849 SUN0315-3450 5+05.70 AD-5A SUN0315-3455 7+47.14 AD-5A VCP 8 241 9.88% 3849 SUN0315-3445 2+07.02 AD-5A SUN0315-3450 5+05.70 AD-5A VCP 8 299 10.68% 3849 SUN0315-3440 0+20.00 AD-5A SUN0315-3445 2+07.02 AD-5A VCP 8 187 11.16% 3849 SUN0315-3440 13+50.00 7-3C SUN0315-3440 0+20.00 AD-5A VCP 8 25 2.88% 3849	LOMA LINDA WY										
LOMA ROJA SUN0315-3455 7+47.14 AD-5A SUN0315-3460 8+86.38 AD-5A VCP 8 139 11.68% 3849 SUN0315-3450 5+05.70 AD-5A SUN0315-3455 7+47.14 AD-5A VCP 8 241 9.88% 3849 SUN0315-3445 2+07.02 AD-5A SUN0315-3450 5+05.70 AD-5A VCP 8 299 10.68% 3849 SUN0315-3440 0+20.00 AD-5A SUN0315-3445 2+07.02 AD-5A VCP 8 187 11.16% 3849 SUN0315-3410 13+50.00 7-3C SUN0315-3440 0+20.00 AD-5A VCP 8 25 2.88% 3849	SUN0315-2285	2+72.05	TR-7127	SUN0315-2290	3+68.29	TR-7127	VCP	8	96	7.15%	3649
LOMA ROJA SUN0315-3455 7+47.14 AD-5A SUN0315-3460 8+86.38 AD-5A VCP 8 139 11.68% 3849 SUN0315-3450 5+05.70 AD-5A SUN0315-3455 7+47.14 AD-5A VCP 8 241 9.88% 3849 SUN0315-3445 2+07.02 AD-5A SUN0315-3450 5+05.70 AD-5A VCP 8 299 10.68% 3849 SUN0315-3440 0+20.00 AD-5A SUN0315-3445 2+07.02 AD-5A VCP 8 187 11.16% 3849 SUN0315-3410 13+50.00 7-3C SUN0315-3440 0+20.00 AD-5A VCP 8 25 2.88% 3849	SUN0315-2280	4+70.00	TR-7127	SUN0315-2285	2+72.05	TR-7127	VCP	8	272	0.80%	3749 / 3649
SUN0315-3450 5+05.70 AD-5A SUN0315-3455 7+47.14 AD-5A VCP 8 241 9.88% 3849 SUN0315-3445 2+07.02 AD-5A SUN0315-3450 5+05.70 AD-5A VCP 8 299 10.68% 3849 SUN0315-3440 0+20.00 AD-5A SUN0315-3445 2+07.02 AD-5A VCP 8 187 11.16% 3849 SUN0315-3410 13+50.00 7-3C SUN0315-3440 0+20.00 AD-5A VCP 8 25 2.88% 3849	LOMA ROJA										
SUN0315-3445 2+07.02 AD-5A SUN0315-3450 5+05.70 AD-5A VCP 8 299 10.68% 3849 SUN0315-3440 0+20.00 AD-5A SUN0315-3445 2+07.02 AD-5A VCP 8 187 11.16% 3849 SUN0315-3410 13+50.00 7-3C SUN0315-3440 0+20.00 AD-5A VCP 8 25 2.88% 3849	SUN0315-3455	7+47.14	AD-5A	SUN0315-3460	8+86.38	AD-5A	VCP	8	139	11.68%	3849
SUN0315-3445 2+07.02 AD-5A SUN0315-3450 5+05.70 AD-5A VCP 8 299 10.68% 3849 SUN0315-3440 0+20.00 AD-5A SUN0315-3445 2+07.02 AD-5A VCP 8 187 11.16% 3849 SUN0315-3410 13+50.00 7-3C SUN0315-3440 0+20.00 AD-5A VCP 8 25 2.88% 3849											
SUN0315-3440 0+20.00 AD-5A SUN0315-3445 2+07.02 AD-5A VCP 8 187 11.16% 3849 SUN0315-3410 13+50.00 7-3C SUN0315-3440 0+20.00 AD-5A VCP 8 25 2.88% 3849											
SUN0315-3410 13+50.00 7-3C SUN0315-3440 0+20.00 AD-5A VCP 8 25 2.88% 3849	SUN0315-3440			SUN0315-3445			VCP				
LOWING LIA	LOMAR LN										

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0480-0570	2+06.00	AD-3B	SUN0480-0575	1+30.00	AD-3B	VCP	8	130	0.40%	3647
SUN0480-0560	4+38.00	AD-3B	SUN0480-0570	2+06.00	AD-3B	VCP	8	206	0.40%	3647
NGMONT PL										
SUN0430-1285	3+18.72	TR-4990	SUN0430-1290	4+15.00	TR-4990	VCP	8	96	2.08%	3451 / 3551
SUN0430-1280	1+52.46	TR-4990	SUN0430-1285	3+18.72	TR-4990	VCP	8	162	7.40%	3451
SUN0430-1145	4+30.95	TR-4990	SUN0430-1280	1+52.46	TR-4990	VCP	8	156	5.32%	3451
SUN0430-1145	4+30.95	TR-4990	SUN0430-1275	2+89.45	TR-4990	VCP	8	289	0.46%	3451
RELEI LN										
RED0120-0610	2+55.04	RS-1019B	RED0120-0615	3+86.30	RS-1019B	VCP	8	127	0.40%	3943
RED0120-0430	100+19.29	7-5-2	RED0120-0610	2+55.04	RS-1019B	VCP	8	251	0.40%	3943
RETTA DR										
RED0420-0340	3+31.00	TR-3574	RED0420-0345	6+66.00	TR-3574	VCP	8	331	1.90%	3545
RED0420-0335	0+04.00	TR-3574	RED0420-0340	3+31.00	TR-3574	VCP	8	331	0.64%	3545
RED0395-0215	1+56.00	TR-6082	RED0395-0220	3+99.12	TR-6082	VCP	8	243	0.24%	3645
RED0395-0070	6+75.00	TR-6082	RED0395-0215	1+56.00	TR-6082	VCP	8	156	0.24%	3645
RED0395-0110	8+70.58	AD-3A	RED0395-0115	11+94.56	AD-3A	VCP	8	324	1.22%	3545
RED0395-0105	5+46.32	AD-3A	RED0395-0110	8+70.58	AD-3A	VCP	8	324	1.60%	3545
RED0395-0100	2+22.02	AD-3A	RED0395-0105	5+46.32	AD-3A	VCP	8	324	1.60%	3545
RED0395-0095	0+00.00	AD-3A	RED0395-0100	2+22.02	AD-3A	VCP	8	222	0.40%	3545
RED0395-0090	4+61.30	TR-3541	RED0395-0095	0+00.00	AD-3A	VCP	8	174	3.60%	3545
RED0395-0085	1+51.30	TR-3541	RED0395-0090	4+61.30	TR-3541	VCP	8	310	0.40%	3645 / 3545
RED0395-0084	UNK	UNK	RED0395-0085	1+51.30	TR-3541	VCP	8	10	0.35%	3645
RED0395-0080	4+66.00	RS-155	RED0395-0084	UNK	UNK	VCP	8	326	0.35%	3645
RED0395-0084	UNK	UNK	RED0395-0310	UNK	UNK	VCP	8	83	0.00%	3645
RED0395-0075	1+16.00	RS-155	RED0395-0080	4+66.00	RS-155	VCP	8	350	0.32%	3645
RED0395-0070	6+75.00	TR-6082	RED0395-0075	1+16.00	RS-155	VCP	8	121	0.40%	3645
RED0390-0395	2+80.00	AD-3A	RED0390-0400	5+60.00	AD-3A	VCP	8	280	0.40%	3445
RED0390-0330	58+04.00	AD-3A	RED0390-0395	2+80.00	AD-3A	VCP	8	280	1.40%	3545 / 3445
WER LAKE DR										,
HAT0000-0180	5+08.12	TR-9271	HAT0000-0875	4+09.62	TR-9271	VCP	8	99	1.00%	3651
HAT0000-0195	2+02.97	TR-8622	HAT0000-0200	4+22.00	SSI-D	VCP	8	199	13.53%	3651
HAT0000-0190	11+60.12	SSI-D	HAT0000-0195	2+02.97	TR-8622	VCP	8	199	8.81%	3651
HAT0000-0185	8+34.12	TR-9271	HAT0000-0190	11+60.12	SSI-D	VCP	8	322	6.77%	3651
HAT0000-0180	5+08.12	TR-9271	HAT0000-0185	8+34.12	TR-9271	VCP	8	322	8.02%	3651
CERO WY										
SUN0415-0295	7+15.00	AD-2	SUN0415-0300	11+13.00	AD-5A	VCP	8	390	0.40%	3746
SUN0415-0290	3+25.00	AD-2	SUN0415-0295	7+15.00	AD-2	VCP	8	390	0.40%	3746
SUN0415-0035	31+40.10	7-39	SUN0415-0290	3+25.00	AD-2	VCP	8	311	0.40%	3746
RED0325-0025	8+21.65	TR-7420	RED0325-0030	11+21.13	TR-7420	VCP	8	299	0.40%	3746
RED0325-0020	5+22.77	TR-7420	RED0325-0025	8+21.65	TR-7420	VCP	8	299	0.40%	3746
RED0325-0015	2+22.68	TR-7420	RED0325-0020	5+22.77	TR-7420	VCP	8	299	0.40%	3745 / 3746
RED0325-0010	1+01.51	TR-7420	RED0325-0015	2+22.68	TR-7420	VCP	8	121	0.40%	3745
CINDA WY	1.01.01	11,720		2.22.00	111 7 7 20	V C1		161	J. 1070	3,43
SUN0315-1865	3+47.00	AD-5A	SUN0315-1870	2+41.00	AD-5A	VCP	8	241	0.40%	3748
SUN0315-1810	6+09.70	AD-5A	SUN0315-1815	3+81.37	AD-5A AD-5A	VCP	8	381	0.40%	3748

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0315-1770	8+81.00	AD-5A	SUN0315-1775	3+85.00	AD-5A	VCP	8	385	1.32%	3748
UNA LN										
SUN0315-3970	376+60.18	7-22	SUN0315-2530	5+18.14	AD-5A	VCP	8	518	0.40%	3649
URLINE LN										
SUN0315-1215	1+09.77	AD-4	SUN0315-1220	3+34.09	AD-4	VCP	8	224	3.60%	3848
SUN0315-1210	2+07.54	AD-4	SUN0315-1215	1+09.77	AD-4	VCP	8	110	5.00%	3848
NAIN ST										
SUN0390-0015	0+04.00	S-120	SUN0390-0085	1+44.00	S-120	VCP	8	140	1.52%	3946 / 3945
SUN0390-0010	2+85.00	S-130	SUN0390-0015	0+04.00	S-120	VCP	8	314	0.32%	3946
SUN0390-0005	13+96.31	7-3B	SUN0390-0010	2+85.00	S-130	VCP	8	300	0.32%	3946
* SUN0390-0000	58+37.85	7-6-6	SUN0390-0005	13+96.31	7 -3B	VCP	8	185	25.12%	3946
SUN0315-0735	0+35.00	7-3B	SUN0390-0000	58+37.85	7 -6-6	VCP	8	19	0.24%	3946
SUN0315-0730	11+63.98	7-3B	SUN0315-0735	0+35.00	7-3B	VCP	8	35	0.70%	3946
SUN0315-0725	6+30.00	7-3B	SUN0315-0730	11+63.98	7-3B	VCP	8	534	0.36%	3946
SUN0315-0720	0+84.95	7-3B	SUN0315-0725	6+30.00	7-3B	VCP	8	480	0.36%	3946
* SUN0315-0715	17+96.23	7-3B	SUN0315-0720	0+84.95	7-3B	VCP	8	85	0.36%	3946
RED0250-0005	10+26.03	7-41	RED0250-0010	1+95.00	S-120	VCP	8	178	0.40%	3945
* RED0250-0000	39+64.39	7-41	RED0250-0005	10+26.03	7-41	VCP	8	27	8.18%	3945
RED0215-0435	6+99.25	S-104	RED0215-0485	10+31.48	S-104	VCP	8	332	0.34%	3944
RED0215-0430	4+67.07	7-3A-4A	RED0215-0435	6+99.25	S-104	VCP	8	232	0.40%	3944
RED0215-0425	2+06.57	S-108	RED0215-0430	4+67.07	7-3A-4A	VCP	8	261	0.40%	3944
RED0215-0420	1+77.00	S-108	RED0215-0425	2+06.57	S-108	VCP	8	28	0.40%	3944
RED0215-0415	7+49.20	7-3A-4A	RED0215-0420	1+77.00	S-108	VCP	8	172	0.40%	3945 / 3944
RED0215-0045	0+00.00	S-109	RED0215-0390	2+50.00	S-110	VCP	8	250	0.40%	3945
RED0215-0305	6+09.10	S-110	RED0215-0310	8+59.10	S-110	VCP	8	250	0.40%	3945
RED0215-0050	3+59.10	S-110	RED0215-0305	6+09.10	S-110	VCP	8	250	0.40%	3945
RED0215-0045	0+00.00	S-109	RED0215-0050	3+59.10	S-110	VCP	10	359	0.40%	3945
MALENA DR										
RED0420-0310	2+96.00	TR-3574	RED0420-0315	5+64.46	TR-3574	VCP	8	267	0.70%	3545
RED0420-0275	6+10.31	TR-3574	RED0420-0310	2+96.00	TR-3574	VCP	8	300	1.56%	3545
RED0420-0265	1+32.00	AD-3A	RED0420-0270	0+04.00	TR-3574	VCP	8	306	0.76%	3545
RED0420-0255	8+22.07	AD-3A	RED0420-0260	0+00.00	AD-3A	VCP	8	341	1.40%	3545
RED0420-0250	5+12.23	AD-3A	RED0420-0255	8+22.07	AD-3A	VCP	8	310	0.40%	3545
RED0420-0245	2+02.39	AD-3A	RED0420-0250	5+12.23	AD-3A	VCP	8	310	0.40%	3545
RED0420-0210	9+45.58	7-4B	RED0420-0245	2+02.39	AD-3A	VCP	8	202	1.40%	3545
RED0395-0025	16+33.24	TR-5167	RED0395-0300	18+61.89	TR-5167	VCP	8	209	1.56%	3645
RED0395-0290	3+65.89	SSI-D	RED0395-0295	0+00.00	SSI-D	VCP	8	366	0.40%	3645
RED0395-0035	3+77.89	SSI-D	RED0395-0290	3+65.89	SSI-D	VCP	8	12	4.00%	3645
RED0395-0035	11+73.50	AD-3A	RED0395-0290	14+73.50	AD-3A	VCP	8	300	2.20%	3645 / 3545
RED0395-0255	8+19.50	AD-3A	RED0395-0260	11+73.50	AD-3A	VCP	8	354	1.00%	3645
RED0395-0250	4+73.50	AD3A	RED0395-0255	8+19.50	AD-3A	VCP	8	346	1.80%	3645
RED0395-0230	13+21.71	2-3	RED0395-0250	4+73.50	AD-3A AD3A	VCP	8	175	1.80%	3645
RED0395-0040	3+77.89	SSI-D						175 147		
VED0222-0022	5±77.69	33I-D	RED0395-0040	13+21.71	2-3	VCP	8	14/	1.80%	3645

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
RED0395-0030	5+44.36	TR-5167	RED0395-0035	3+77.89	SSI-D	VCP	8	68	UNK	3645
RED0395-0025	16+33.24	TR-5167	RED0395-0030	5+44.36	TR-5167	VCP	8	89	0.40%	3645
RED0390-0755	2+40.12	RS-980C	RED0390-0760	5+42.12	RS-980C	VCP	8	298	0.94%	3645
* RED0390-0005	122+69.05	7-4-1	RED0390-0755	2+40.12	RS-980C	VCP	8	236	2.22%	3645
RED0390-0370	8+75.00	AD-3A	RED0390-0375	12+70.00	AD-3A	VCP	8	395	0.80%	3445
RED0390-0365	4+50.00	AD-3A	RED0390-0370	8+75.00	AD-3A	VCP	8	425	0.60%	3445
RED0390-0345	64+27.00	2-17	RED0390-0365	4+50.00	AD-3A	VCP	8	450	0.80%	3545 / 3445
MALTA ST										
SUN0500-0190	3+06.65	AD3B	SUN0500-0200	3+52.70	AD3B	VCP	8	353	0.80%	3547
MANNING DR										
SUN0455-0120	2+41.67	AD-5A	SUN0455-0125	4+98.66	AD-2	VCP	8	257	0.24%	3747
SUN0455-0115	2+67.00	AD-2	SUN0455-0120	2+41.67	AD-5A	VCP	8	242	0.24%	3747
SUN0455-0020	3+20.00	TR-3793	SUN0455-0090	0+00.00	TR-3793	VCP	8	164	0.30%	3747
SUN0455-0020	3+20.00	TR-3793	SUN0455-0025	2+75.00	TR-3793	VCP	8	116	0.30%	3747
MARBLE ARCH DR										
SUN0315-2325	5+24.12	TR-3596	SUN0315-2330	9+56.11	TR-3596	VCP	8	257	2.60%	3649
SUN0315-2320	2+61.19	TR-3596	SUN0315-2325	5+24.12	TR-3596	VCP	8	256	2.00%	3649
SUN0315-2315	0+97.53	TR-3596	SUN0315-2320	2+61.19	TR-3596	VCP	8	168	2.46%	3649
SUN0315-2310	19+08.11	TR-3596	SUN0315-2315	0+97.53	TR-3596	VCP	8	94	1.00%	3649
SUN0315-2255	6+82.00	TR-3696	SUN0315-2260	10+25.10	TR-3696	VCP	8	343	1.50%	3648 / 3649
SUN0315-2250	3+39.00	TR-3527	SUN0315-2255	6+82.00	TR-3696	VCP	8	339	1.58%	3648
SUN0315-2210	0+00.00	TR-3527	SUN0315-2250	3+39.00	TR-3527	VCP	8	343	1.25%	3748 / 3648
MARCY DR										
SUN0430-1475	0+04.00	SSI-E	SUN0430-1480	7+85.00	AD-1	VCP	8	142	6.40%	3549
SUN0430-1470	5+50.00	AD-1	SUN0430-1475	0+04.00	SSI-E	VCP	8	92	6.40%	3549
SUN0430-1445	2+34.00	TR-10507	SUN0430-1470	5+50.00	AD-1	VCP	8	258	4.48%	3549
SUN0430-0179	1+75.00	TR-10570	SUN0430-1445	2+34.00	TR-10507	VCP	8	59	4.90%	3549
SUN0430-0177	0+64.00	TR-10570	SUN0430-0179	1+75.00	TR-10570	VCP	8	107	6.28%	3549
SUN0430-0175	38+50.00	7-3A-4A	SUN0430-0177	0+64.00	TR-10570	VCP	8	62	0.40%	3549
MARCY RANCH RD										
SUN0430-1460	8+48.12	TR-10507	SUN0430-1465	10+95.00	TR-10507	VCP	8	238	9.20%	3449
SUN0430-1455	6+01.00	TR-10507	SUN0430-1460	8+48.12	TR-10507	VCP	8	244	5.20%	3549 / 3449
SUN0430-1450	3+85.00	TR-10507	SUN0430-1455	6+01.00	TR-10507	VCP	8	210	4.80%	3549
SUN0430-1445	2+34.00	TR-10507	SUN0430-1450	3+85.00	TR-10507	VCP	8	382	0.40%	3549
MARDICK RD										
SUN0315-3350	1+75.00	AD-5A	SUN0315-3355	5+75.00	AD-5A	VCP	8	400	0.40%	3749
SUN0315-0205	13+50.00	7-3C	SUN0315-3350	1+75.00	AD-5A	VCP	8	175	0.40%	3749
MARELL CIR										
SUN0480-0580	1+00.00	AD-3B	SUN0480-0585	2+23.85	AD-3B	VCP	8	124	1.60%	3647
SUN0480-0555	2+88.00	AD-3B	SUN0480-0580	1+00.00	AD-3B	VCP	8	100	1.60%	3647
MARQUIS CIR										
SUN0315-2150	2+65.70	TR-5462	SUN0315-2180	1+65.00	TR-5462	VCP	8	165	1.25%	3748
MARSHALL LN										

RED039-0715	DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
RED0390.0550	RED0390-0715	4+67.04	RS-1004	RED0390-0720	7+17.39	RS-1004	VCP	8	246	0.40%	3644
RED030-00645 12,25.00 RS-029 RED0390-00550 15,175.00 RS-029 VCP 8 350 0.60% 3544 RED0390-0050 1-70.00 RS-928 RED0390-0051 19-20.00 RS-928 VCP 8 320 0.60% 3544 RED0390-0525 2-22.00 RS-928 RED0390-0535 7-40.00 RS-928 VCP 8 320 0.60% 3544 RED0390-0525 2-22.00 RS-927 RED0395-0525 2-28.00 RS-927 RED0395-0525 2-28.00 RS-928 VCP 8 345 0.60% 3544 RED0350-0225 1-01.40 AD-3A RED0350-035 7-46.00 TR-7960 VCP 8 230 0.40% 3545/3544 MARTMA AWRED 7-75.00 TR-7960 RED035-0005 7-746.00 TR-7960 VCP 8 230 0.40% 3545/3544 MARTMA AWRED 7-75.00 TR-1917 RED035-0005 7-76.00 TR-1917 VCP 15 275 0.40% <td>RED0390-0710</td> <td>2+09.38</td> <td>RS-1004</td> <td>RED0390-0715</td> <td>4+67.04</td> <td>RS-1004</td> <td>VCP</td> <td>8</td> <td>254</td> <td>0.40%</td> <td>3644</td>	RED0390-0710	2+09.38	RS-1004	RED0390-0715	4+67.04	RS-1004	VCP	8	254	0.40%	3644
RED0390 0540	RED0390-0550	15+75.00	RS-929	RED0390-0555	19+25.00	RS-929	VCP	8	350	0.60%	3544
RED039 0735	RED0390-0545	12+25.00	RS-929	RED0390-0550	15+75.00	RS-929	VCP	8	350	0.60%	3544
RED0390-0530 3.45,0.00 RS-028 RED0390-0535 7.40,0.0 RS-928 VCP 8 3.45 0.60% 3544 RED0390-0525 2+28,0.0 RS-927 RED0390-0525 2+28,0.0 RS-928 VCP 8 3.45 0.60% 3544 RED0390-0425 1.01,4.0 AD-37 RED0390-0525 2+28,0.0 RS-927 VCP 8 242 0.46% 3545 354	RED0390-0540	10+20.00	RS-928	RED0390-0545	12+25.00	RS-929	VCP	8	207	0.60%	3544
RED0390-0525 1-14.00	RED0390-0535	7+00.00	RS-928	RED0390-0540	10+20.00	RS-928	VCP	8	320	0.60%	3544
RED0390-0425	RED0390-0530	3+50.00	RS-928	RED0390-0535	7+00.00	RS-928	VCP	8	350	0.60%	3544
MARTHA ANNE OR RFD0335-0030 \$5+16.50 TR-7969 RFD0335-0030 5+16.50 TR-7969 VCP 8 230 0.40% 3746 MARTHU IA RED0625-0205 2+75.00 TR-1917 RED0625-0210 4+66.00 TR-1917 VCP 8 191 4.60% 3349 RED0625-02190 5+70.00 AD-8 RED0625-0210 4+66.00 TR-1917 VCP 15 275 0.40% 3349 MARTINGALE PL SUN0315-2915 3+01.57 TR-5794 SUN0315-2915 3+01.57 TR-5794 SUN0315-2916 3+01.57 TR-5794 SUN0315-2916 3+01.57 TR-5794 VCP 8 82 6.60% 3550 MARTYCE WY RED0350-0055 2+55.00 TR-4483 RED0365-0060 3149.00 TR-4483 VCP 8 345 0.24% 3746 / 3646 MALIVA LOA DO SUN0315-0855 2+66.00 RS-197 VCP 8 333 0.40% 3947 SUN0315-0855 3+16.00	RED0390-0525	2+28.00	RS-927	RED0390-0530	3+50.00	RS-928	VCP	8	345	0.60%	3544
RED0335-0025 2190.86 TR-7969 RED0335-0035 7-46.60 TR-7969 VCP 8 236 0.40% 3746 RED0335-0025 2190.86 TR-7969 RED0335-0035 7-46.60 TR-7969 VCP 8 226 0.40% 3746 MARTIN LIN RED0625-0205 2475.00 TR-1917 RED0625-0210 4-66.00 TR-1917 VCP 8 191 4.60% 3349 RED0625-0190 510.00 AD-8 RED0625-0210 4-66.00 TR-1917 VCP 8 191 4.60% 3349 RED0625-0190 510.00 AD-8 RED0625-0210 3183.81 TR-5794 VCP 8 822 6.60% 3349 MARTINGALE PL SUN0315-2915 3+01.57 TR-5794 SUN0315-2920 3183.81 TR-5794 VCP 8 822 6.60% 3550 SUN0315-2915 3+01.51 TR-5794 SUN0315-2915 3+01.57 TR-5794 VCP 8 822 6.60% 3551/3550 MARTINCE W RED0365-0050 3449.00 TR-4483 VCP 8 302 6.12% 3551/3550 MARTINCE W RED0365-0055 2475.00 TR-1917 VCP 8 323 0.40% 3947 SUN0315-0855 3+16.00 RS-197 SUN0315-0865 2466.00 RS-197 VCP 8 296 0.40% 3947 SUN0315-0855 3+16.00 RS-197 SUN0315-0865 6412.00 RS-197 VCP 8 296 0.40% 3947 SUN0315-0855 3+16.00 RS-197 SUN0315-0855 3+16.00 RS-197 VCP 8 296 0.40% 3947 SUN0315-0855 3+16.00 RS-197 VCP 8 296 0.40% 3947 SUN0315-0855 3+16.00 RS-197 VCP 8 233 0.40% 3947 RED0400-0075 646.396 TR-4511 RED0400-0075 646.396 TR-4511 RED0400-0070 443-40 TR-4511 RED0400-0070 443-40 TR-4511 RED0400-0075 484.71 7-48 RED0400-0070 443-40 TR-4511 VCP 8 233 0.40% 3646 RED0400-0055 948.71 7-48 RED0400-0070 443-40 TR-4511 VCP 8 233 0.40% 3646 RED0400-0055 948.71 7-48 RED0400-0070 443-40 VCP 8 257 0.40% 3646 MARTINGALE W RED0400-0050 1474.26 TR-4511 RED0400-0075 445.58 TR-4511 VCP 8 257 0.40% 3646 MARTINGALE W RED0400-0050 1474.26 TR-4511 RED0400-0075 445.81 TR-594 VCP 8 259 0.60% 3449/3448 MARTINGALE W RED0400-0015 948.71 7-48 RED0400-0055 2465.00 TR-8084 VCP 8 259 0.60% 4044 RED0120-0858 6094.91 7-5-2 RED0120-0655 2450.00 S-470 VCP 8 259 0.60% 4044 RED0120-0858 6094.91 7-5-2 RED0120-0655 1470.00 S-503 VCP 12 310 0.32% 4043 RED0120-0855 735-2 RED0120-0655 1490.00 RS-503 VCP 12 310 0.32% 4043 RED0120-0655 735-2 RED0120-0655 1490.00 RS-503 VCP 12 310 0.32% 4043 RED0120-0858 73452.55 7-5-2 RED0120-0655 1490.00 RS-503 VCP 12 310 0.32% 4043 RED0120-0655 735-2 RED0120-0655 1490.00 RS-503	RED0390-0425	1+01.40	AD-3A	RED0390-0525	2+28.00	RS-927	VCP	8	224	0.48%	3545 / 3544
RED035-025	MARTHA ANNE DR										
MARTINIAN RED0625-0205	RED0335-0030	5+16.50	TR-7969	RED0335-0035	7+46.00	TR-7969	VCP	8	230	0.40%	3746
RED0625-0205 2+75.00 TR-1917 RED0625-0210 4+66.00 TR-1917 VCP 8 191 4.60% 3349 RED0625-0190 5+70.00 AD-8 RED0625-0205 2+75.00 TR-1917 VCP 15 275 0.40% 3349 MARTINGALE PL SUN0315-2915 3-01.57 TR-5794 SUN0315-2920 3+83.81 TR-5794 VCP 8 822 6.60% 3550 SUN0315-2880 3+51.51 TR-5794 SUN0315-2915 3+01.57 TR-5794 VCP 8 822 6.60% 3550 MATRINGALE PL SUN0315-2815 3-01.57 TR-5794 SUN0315-2915 3+01.57 TR-5794 VCP 8 822 6.60% 3550 SUN0315-2915 3+01.57 TR-5794 VCP 8 822 6.60% 3550 MATRINGALE PL RED0365-0055 2+55.00 TR-4483 RED0365-0060 3+49.00 TR-4483 VCP 8 345 0.24% 3746/3646 MAUNA LOA RD SUN0315-0855 3+16.00 RS-197 SUN0315-0855 3+16.00 RS-197 VCP 8 236 0.40% 3947 SUN0315-0855 3+16.00 RS-197 SUN0315-0855 3+16.00 RS-197 VCP 8 236 0.40% 3947 SUN0315-0850 3+14.00 RS-197 SUN0315-0855 3+16.00 RS-197 VCP 8 316 0.40% 3947 MAUNE DR RED0400-0075 6+63.96 TR-4511 RED0400-0075 6+63.96 TR-4511 RED0400-0075 6+63.96 TR-4511 RED0400-0075 6+63.96 TR-4511 VCP 8 233 0.40% 3646 RED0400-0075 9+84.71 7-48 RED0400-0075 4+31.00 TR-4511 VCP 8 233 0.40% 3646 RED0400-0015 9+84.71 7-48 RED0400-0075 4+31.00 TR-4511 VCP 8 233 0.40% 3646 RED0400-0015 9+84.71 7-48 RED0400-0075 4+31.00 TR-4511 VCP 8 233 0.40% 3646 RED0400-0015 9+84.71 7-48 RED0400-0075 4+31.00 TR-4511 VCP 8 233 0.40% 3646 RED0400-0015 9+84.71 TA-8 RED0400-0075 4+31.00 TR-4511 VCP 8 233 0.40% 3646 RED0400-0015 9+84.71 TA-8 RED0400-0075 4+31.00 TR-4511 VCP 8 233 0.40% 3646 RED0400-0015 9+84.71 TA-8 RED0400-0075 4+31.00 TR-4511 VCP 8 233 0.40% 3646 RED0400-0015 9+84.71 TA-8 RED0400-0075 4+31.00 TR-4511 VCP 8 233 0.40% 3646 RED0400-0015 9+84.71 TA-8 RED0400-0075 4+31.00 TR-4511 VCP 8 233 0.40% 3646 RED0400-0015 9+84.71 TA-8 RED0400-0075 4+31.00 TR-4511 VCP 8 233 0.40% 3646 RED0400-0015 9+84.71 TA-8 RED0400-0075 4+31.00 TR-4511 VCP 8 233 0.40% 3646 RED0400-0015 9+84.71 TA-8 RED0400-0075 4+31.00 TR-4511 VCP 8 235 0.40% 3646 RED0400-0015 9+84.71 TA-8 RED0400-0075 4+31.00 TR-4511 VCP 8 235 0.40% 3646 RED0400-0015 4+31.00 TR-4511 VCP 8 235 0.40% 3646 RED0400-0015 4+31.00 TR-4511 VCP 8 235 0.40% 3646	RED0335-0025	2+90.86	TR-7969	RED0335-0030	5+16.50	TR-7969	VÇP	8	226	0.40%	3746
RED0625-0190 \$-70.00 AD-8 RED0625-0205 2+75.00 TR-1917 VCP 15 275 0.40% 3349 **MARTIMOGLE PL SUN0315-2915 3+01.57 TR-5794 SUN0315-2920 3+83.81 TR-5794 VCP 8 8 82 6.60% 3550 **SUN0315-2880 3+51.51 TR-5794 SUN0315-2915 3+01.57 TR-5794 VCP 8 302 6.12% 3551/3550 **MATRYCE WY RED0365-0055 2+55.00 TR-4483 RED0365-0060 3+49.00 TR-4483 VCP 8 345 0.24% 3746/3646 **MAUNA LOA RO SUN0315-0850 3+16.00 RS-197 SUN0315-0855 2+65.00 RS-197 VCP 8 233 0.40% 3947 **SUN0315-0850 3+14.00 RS-197 SUN0315-0855 3+16.00 RS-197 VCP 8 296 0.40% 3947 **MAUVE DR RED0400-0075 6+63.96 TR-4511 RED0400-0080 8+96.92 TR-4511 VCP 8 233 0.40% 3646 **RED0400-0005 1-74.26 TR-4511 RED0400-0070 4+31.00 TR-4511 VCP 8 223 0.40% 3646 **RED0400-0015 9+84.71 7-48 RED0400-0075 6+63.96 TR-4511 VCP 8 223 0.40% 3646 **RED0400-0015 1-74.26 TR-4511 RED0400-0070 4+31.00 TR-4511 VCP 8 257 0.40% 3646 **RED0400-0015 9+84.71 7-48 RED0400-0075 1-74.26 TR-4511 VCP 8 257 0.40% 3646 **RED0400-0015 9+84.71 7-48 RED0400-0070 4+31.00 TR-4511 VCP 8 350 10.56% 3449/3448 **MAXIMADE WY **RED0262-0335 3+52.50 AD-1 RED0400-0075 4+55.38 TR-8084 VCP 8 190 10.32% 3849 **HAT0305-0000 139+56.00 TR-8084 HAT0305-0015 4+55.88 TR-8084 VCP 8 190 10.32% 3849 **MACLEAN DR **MELD020-035 60-99 TR-8084 HAT0305-0015 4+55.88 TR-8084 VCP 8 259 0.60% 4044 **RED0120-0650 2+50.00 S-470 RED0120-0650 2+50.00 S-470 VCP 8 250 0.60% 4044 **RED0120-0650 14+86.00 RS-503 RED0120-0650 10+52.92 RS-893 VCP 8 117 1.08% 4043 **RED0120-0635 18+00.00 RS-503 RED0120-0650 10+52.92 RS-893 VCP 12 310 0.32% 4043 **RED0120-0635 18+00.00 RS-503 RED0120-0650 10+52.92 RS-893 VCP 12 310 0.32% 4043 **RED0120-0635 18+00.00 RS-503 RED0120-0650 10+52.92 RS-893 VCP 12 310 0.32% 4043 **RED0120-0695 73+52.25 7-5-2 RED0120-0650 10+52.92 RS-893 VCP 12 310 0.32% 4043 **RED0120-0635 18+00.00 RS-503 RED0120-0640 11+86.00 RS-503 VCP 12 310 0.32% 4043 **RED0120-0635 18+00.00 RS-503 RED0120-0645 10+52.92 RS-893 VCP 12 310 0.32% 4043 **RED0120-0635 18+00.00 RS-503 RED0120-0645 10+52.92 RS-893 VCP 12 310 0.32% 4043 **	MARTIN LN										
MARTINGALE PL SUN0315-2915 3+01.57 TR-5794 SUN0315-2920 3+83.81 TR-5794 VCP 8 302 6.60% 3550 35	RED0625-0205	2+75.00	TR-1917	RED0625-0210	4+66.00	TR-1917	VCP	8	191	4.60%	3349
SUN0315-2915 3+01.57 TR-5794 SUN0315-2920 3+83.81 TR-5794 VCP 8 82 6.60% 3550 SUN0315-2880 3+51.51 TR-5794 SUN0315-2915 3+01.57 TR-5794 VCP 8 302 6.12% 3551 / 3550 MATRYCE WY RED0365-0055 2+55.00 TR-4483 RED0365-0060 3+49.00 TR-4483 VCP 8 345 0.24% 3746 / 3646 MAUNA LOA RD SUN0315-0865 2+66.00 RS-197 VCP 8 333 0.40% 3947 SUN0315-0855 3+16.00 RS-197 SUN0315-0865 6+12.00 RS-197 VCP 8 316 0.40% 3947 SUN0315-0850 3+14.00 RS-197 SUN0315-0855 3+16.00 RS-197 VCP 8 316 0.40% 3947 MAUNE DR RED0400-0075 6+63.96 TR-4511 RED0400-0080 8+96.92 TR-4511 VCP 8 233 0.40% 3646 RED0400-0075 4+31.00 TR-4511 RED0400-0075 6+63.96 TR-4511 VCP 8 233 0.40% 3646 RED0400-0015 9+84.71 7-48 RED0400-0075 4+31.00 TR-4511 VCP 8 257 0.40% 3646 RED0400-0015 9+87.71 7-48 RED0400-0055 1+74.26 TR-4511 VCP 8 350 10.56% 3449 / 3448 MATRYARD WY RED0625-0335 3+52.50 AD-1 RED0625-0340 3+50.00 AD-1 VCP 8 350 10.56% 3449 / 3448 MATRYARD WY RED0625-0355 3+50.00 TR-8084 HAT0305-0005 2+65.00 TR-8084 VCP 8 257 0.60% 4044 RED0120-0855 60*94.91 7-5-2 RED0120-0655 2+50.00 TR-8084 VCP 8 259 0.60% 4044 RED0120-0855 60*94.91 7-5-2 RED0120-0655 2+50.00 S-470 VCP 8 250 0.60% 4044 RED0120-0855 60*94.91 7-5-2 RED0120-0655 2+50.00 RS-503 RED0120-0640 14+86.00 RS-503 VCP 12 310 0.32% 4043 RED0120-0635 TR-60120-0635 TR-60120	RED0625-0190	5+70.00	AD-8	RED0625-0205	2+75.00	TR-1917	VCP	15	275	0.40%	3349
SUN0315-2880 3+51.51 TR-5794 SUN0315-2915 3+01.57 TR-5794 VCP 8 302 6.12% 3551 / 3550	MARTINGALE PL										
MATRYCE WY RED0365-0055 2+55.00 TR-4483 RED0365-0060 3+49.00 TR-4483 VCP 8 345 0.24% 3746/3646 MAUNA LOA RD SUN0315-0860 6+12.00 RS-197 SUN0315-0865 2+66.00 RS-197 VCP 8 333 0.40% 3947 SUN0315-0855 3+16.00 RS-197 SUN0315-0855 3+16.00 RS-197 VCP 8 296 0.40% 3947 SUN0315-0855 3+16.00 RS-197 VCP 8 296 0.40% 3947 MAUVE DR **** SUN0315-0855 3+16.00 RS-197 VCP 8 233 0.40% 3947 MAUVE DR *** SUN0315-0855 3+16.00 RS-197 VCP 8 233 0.40% 3947 MAUVE DR *** SUN0315-0855 3+16.00 RS-197 VCP 8 233 0.40% 3946 66.06 7.41 7.42 8 233 0.40% 3646 7.42 7.42 7	SUN0315-2915	3+01.57	TR-5794	SUN0315-2920	3+83.81	TR-5794	VCP	8	82	6.60%	3550
RED0365-0055 2+55.00 TR-4483 RED0365-0060 3+49.00 TR-4483 VCP 8 345 0.24% 3746/3646 MAUNA LOA RD SUN0315-0860 6+12.00 RS-197 SUN0315-0865 2+66.00 RS-197 VCP 8 236 0.40% 3947 SUN0315-0855 3+16.00 RS-197 SUN0315-0855 3+16.00 RS-197 VCP 8 296 0.40% 3947 SUN0315-0850 3+14.00 RS-197 SUN0315-0855 3+16.00 RS-197 VCP 8 316 0.40% 3947 MAUVE DR RED0400-0075 6+63.96 TR-4511 RED0400-0080 8+96.92 TR-4511 VCP 8 233 0.40% 3646 RED0400-0070 4+31.00 TR-4511 RED0400-0075 6+63.96 TR-4511 VCP 8 233 0.40% 3646 RED0400-0055 1+74.26 TR-4511 RED0400-0070 4+31.00 TR-4511 VCP 8 257 0.40% 3646 RED0400-0015 9+84.71 7-48 RED0400-0055 1+74.26 TR-4511 VCP 8 257 0.40% 3646 MATWARD WY RED0625-0335 3+52.50 AD-1 RED0400-0065 1+74.26 TR-4511 VCP 8 350 10.56% 3646 MACCIEAN DR HAT0305-0000 139+56.00 TR-8084 HAT0305-0015 4+55.38 TR-8084 VCP 8 190 10.32% 3849 HAT0305-0000 139+56.00 TR-8084 HAT0305-0005 2+65.00 TR-8084 VCP 8 255 1.64% 3849 MCCADDEN AV RED0120-0650 2+50.00 S-470 RED0120-0655 4+79.36 S-470 VCP 8 229 0.60% 4044 RED0120-0640 14+86.00 RS-503 RED0120-0645 10+52.92 RS-893 VCP 8 117 1.08% 4043 RED0120-0645 18+00.00 RS-503 RED0120-0645 10+52.92 RS-893 VCP 12 310 0.32% 4043 MCCADDEN ST RED0145-0145 15+61.00 RS-10208 RED0145-0150 16+11.00 RS-10208 VCP 8 50 0.32% 4045	SUN0315-2880	3+51.51	TR-5794	SUN0315-2915	3+01.57	TR-5794	VCP	8	302	6.12%	3551 / 3550
MAUNA LOA RD SUN0315-0860	MATRYCE WY										
\$\text{SUN0315-0860}\$ \text{6+12.00} \text{RS-197} \text{SUN0315-0865} \text{2+66.00} \text{RS-197} \text{VCP} \text{8} \text{333} \text{0.40\%} \text{3947} \text{SUN0315-0855} \text{3+16.00} \text{RS-197} \text{VCP} \text{8} \text{296} \text{0.40\%} \text{3947} \text{3947} \text{SUN0315-0855} \text{3+16.00} \text{RS-197} \text{VCP} \text{8} \text{296} \text{0.40\%} \text{3947} \text{3947} \text{3947} \text{30400-0075} \text{6-63.96} \text{TR-4511} \text{RED0400-0075} \text{6-63.96} \text{TR-4511} \text{VCP} \text{8} \text{233} \text{0.40\%} \text{3646} \text{RED0400-0075} \text{6-63.96} \text{TR-4511} \text{VCP} \text{8} \text{233} \text{0.40\%} \text{3646} \text{RED0400-0075} \text{6-63.96} \text{TR-4511} \text{VCP} \text{8} \text{257} \text{0.40\%} \text{3646} \text{RED0400-0075} \text{4-8100} \text{TR-4511} \text{VCP} \text{8} \text{257} \text{0.40\%} \text{3646} \text{RED0400-0075} \text{4-81100} \text{TR-4511} \text{VCP} \text{8} \text{257} \text{0.40\%} \text{3646} \text{RED0400-0075} \text{4-81100} \text{7-426} \text{TR-4511} \text{VCP} \text{8} \text{357} \text{0.40\%} \text{3646} \text{RED0400-0065} \text{3+474.26} \text{TR-4511} \text{VCP} \text{8} \text{350} \text{10.56\%} \text{3449} \text{3489} \text{448} \text{4660} \text{3-849} \text{3489} \text{4660} \text{3-849} \text{3489} \text{3489} \text{3489} \text{3489} \text{3489} 349000000000000000000000000000000000000	RED0365-0055	2+55.00	TR-4483	RED0365-0060	3+49.00	TR-4483	VCP	8	345	0.24%	3746 / 3646
\$\text{SUN0315-0855} 3+16.00 \text{RS-197} \text{SUN0315-0860} \text{6+12.00} \text{RS-197} \text{VCP} \text{8} \text{296} \text{0.40\%} \text{3947} \\ \text{SUN0315-0850} \text{3+14.00} \text{RS-197} \text{VCP} \text{8} \text{316} \text{0.40\%} \text{3947} \\ \text{MAUVE DR} \\ \text{RED0400-0075} \text{6+63.96} \text{TR-4511} \text{RED0400-0080} \text{8+96.92} \text{TR-4511} \text{VCP} \text{8} \text{233} \text{0.40\%} \text{3646} \\ \text{RED0400-0065} \text{1-74.26} \text{TR-4511} \text{RED0400-0070} \text{4+31.00} \text{TR-4511} \text{VCP} \text{8} \text{233} \text{0.40\%} \text{3646} \\ \text{RED0400-0015} \text{9+84.71} \text{7-48} \text{RED0400-0065} \text{1+74.26} \text{TR-4511} \text{VCP} \text{8} \text{357} \text{0.40\%} \text{3646} \\ \text{MAYNARD WY} \text{RED0625-0335} \text{3+52.50} \text{AD-1} \text{RED0625-0340} \text{3+50.00} \text{A-55.38} \text{TR-8084} \text{VCP} \text{8} \text{10.56\%} \text{3449} \q	MAUNA LOA RD										
SUN0315-0850 3+14.00 RS-197 SUN0315-0855 3+16.00 RS-197 VCP 8 316 0.40% 3947 MAUVE DR RED0400-0075 6+63.96 TR-4511 RED0400-0080 8+96.92 TR-4511 VCP 8 233 0.40% 3646 RED0400-0070 4+31.00 TR-4511 RED0400-0075 6+63.96 TR-4511 VCP 8 233 0.40% 3646 RED0400-0065 1+74.26 TR-4511 RED0400-0070 4+31.00 TR-4511 VCP 8 257 0.40% 3646 RED0400-0015 9+84.71 7-4B RED0400-0065 1+74.26 TR-4511 VCP 8 146 2.56% 3646 MAYNARD WY RED0625-0335 3+52.50 AD-1 RED0625-0340 3+50.00 AD-1 VCP 8 350 10.56% 3449 / 3448 MCCIEAN DR HAT0305-0005 2+65.00 TR-8084 HAT0305-0015 4+55.38 TR-8084 VCP 8 190 10.32% 3849 HAT0305-0000 139+56.00 TR-8084 HAT0305-0005 2+65.00 TR-8084 VCP 8 265 1.64% 3849 MCFADDEN AV RED0120-0650 2+50.00 S-470 RED0120-0655 4+79.36 S-470 VCP 8 250 0.60% 4044 RED0120-0660 14+86.00 RS-503 RED0120-0650 2+50.00 S-470 VCP 8 117 1.08% 4043 RED0120-0635 18+00.00 RS-503 RED0120-0645 10+52.92 RS-893 VCP 8 117 1.08% 4043 RED0120-0635 18+00.00 RS-503 RED0120-0645 18+00.00 RS-503 VCP 12 310 0.32% 4043 MCFADDEN ST RED0145-0145 15+61.00 RS-1020B RED0145-0150 16+11.00 RS-1020B VCP 8 50 0.32% 4045	SUN0315-0860	6+12.00	RS-197	SUN0315-0865	2+66.00	RS-197	VCP	8	333	0.40%	3947
MAUVE DR RED0400-0075 6+63.96 TR-4511 RED0400-0080 8+96.92 TR-4511 VCP 8 233 0.40% 3646 RED0400-0070 4+31.00 TR-4511 RED0400-0075 6+63.96 TR-4511 VCP 8 233 0.40% 3646 RED0400-0015 1+74.26 TR-4511 RED0400-0070 4+31.00 TR-4511 VCP 8 257 0.40% 3646 RED0400-0015 9+84.71 7-4B RED0400-0065 1+74.26 TR-4511 VCP 8 146 2.56% 3646 MAYNARD WY RED0625-0335 3+52.50 AD-1 RED0625-0340 3+50.00 AD-1 VCP 8 350 10.56% 3449 / 3448 MCCLEAN DR HAT0305-0005 2+65.00 TR-8084 VCP 8 190 10.32% 3849 HAT0305-0000 139+56.00 TR-8084 HAT0305-0005 2+65.00 TR-8084 VCP 8 265 1.64% 3849	SUN0315-0855	3+16.00	RS-197	SUN0315-0860	6+12.00	RS-197	VCP	8	296	0.40%	3947
RED0400-0075 6+63.96 TR-4511 RED0400-0080 8+96.92 TR-4511 VCP 8 233 0.40% 3646 RED0400-0070 4+31.00 TR-4511 RED0400-0075 6+63.96 TR-4511 VCP 8 233 0.40% 3646 RED0400-0065 1+74.26 TR-4511 RED0400-0070 4+31.00 TR-4511 VCP 8 257 0.40% 3646 RED0400-0015 9+84.71 7-48 RED0400-0065 1+74.26 TR-4511 VCP 8 257 0.40% 3646 RED0400-0015 9+84.71 7-48 RED0400-0065 1+74.26 TR-4511 VCP 8 146 2.56% 3646 MAYNARD WY RED0625-0335 3+52.50 AD-1 RED0625-0340 3+50.00 AD-1 VCP 8 350 10.56% 3449 / 3448 MCCLEAN DR HAT0305-0000 139+56.00 TR-8084 HAT0305-0015 4+55.38 TR-8084 VCP 8 190 10.32% 3849 HAT0305-0000 139+56.00 TR-8084 HAT0305-0005 2+65.00 TR-8084 VCP 8 265 1.64% 3849 MCFADDEN AV RED0120-0650 2+50.00 S-470 RED0120-0655 4+79.36 S-470 VCP 8 229 0.60% 4044 RED0120-0680 14+86.00 RS-503 RED0120-0645 10+52.92 RS-893 VCP 8 117 1.08% 4043 RED0120-0635 18+00.00 RS-503 RED0120-0640 14+86.00 RS-503 RED0120-0640 14+86.00 RS-503 RED0120-0640 14+86.00 RS-503 RED0120-0645 10+52.92 RS-893 VCP 8 117 1.08% 4043 RED0120-0395 73+52.25 7-5-2 RED0120-0635 18+00.00 RS-503 VCP 12 310 0.32% 4043 MCFADDEN ST RED0145-0145 15+61.00 RS-1020B RED0145-0150 16+11.00 RS-1020B VCP 8 50 0.32% 4045	SUN0315-0850	3+14.00	RS-197	SUN0315-0855	3+16.00	RS-197	VCP	8	316	0.40%	3947
RED0400-0070	MAUVE DR										
RED0400-0065 1+74.26 TR-4511 RED0400-0070 4+31.00 TR-4511 VCP 8 257 0.40% 3646 RED0400-0015 9+84.71 7-4B RED0400-0065 1+74.26 TR-4511 VCP 8 146 2.56% 3646 MAYNARD WY RED0625-0335 3+52.50 AD-1 RED0625-0340 3+50.00 AD-1 VCP 8 350 10.56% 3449 / 3448 MCCLEAN DR HAT0305-0005 2+65.00 TR-8084 HAT0305-0015 4+55.38 TR-8084 VCP 8 190 10.32% 3849 HAT0305-0000 139+56.00 TR-8084 HAT0305-0005 2+65.00 TR-8084 VCP 8 265 1.64% 3849 MCFADDEN AV RED0120-0650 2+50.00 S-470 RED0120-0655 4+79.36 S-470 VCP 8 229 0.60% 4044 RED0120-0385 60+94.91 7-5-2 RED0120-0650 2+50.00 S-470 VCP 8 250 0.60% 4044 RED0120-0640 14+86.00 RS-503 RED0120-0645 10+52.92 RS-893 VCP 8 117 1.08% 4043 RED0120-0355 18+00.00 RS-503 RED0120-0640 14+86.00 RS-503 VCP 12 310 0.32% 4043 * RED0120-0395 73+52.25 7-5-2 RED0120-0635 18+00.00 RS-503 VCP 12 184 0.32% 4043 MCFADDEN ST RED0145-0145 15+61.00 RS-10208 RED0145-0150 16+11.00 RS-1020B VCP 8 50 0.32% 4045	RED0400-0075	6+63.96	TR-4511	RED0400-0080	8+96.92	TR-4511	VCP	8	233	0.40%	3646
RED0400-0015 9+84.71 7-4B RED0400-0065 1+74.26 TR-4511 VCP 8 146 2.56% 3646 MAYNARD WY RED0625-0335 3+52.50 AD-1 RED0625-0340 3+50.00 AD-1 VCP 8 350 10.56% 3449 / 3448 MCCLEAN DR HAT0305-0005 2+65.00 TR-8084 HAT0305-0015 4+55.38 TR-8084 VCP 8 190 10.32% 3849 HAT0305-0000 139+56.00 TR-8084 HAT0305-0005 2+65.00 TR-8084 VCP 8 265 1.64% 3849 MCFADDEN AV RED0120-0650 2+50.00 S-470 RED0120-0655 4+79.36 S-470 VCP 8 229 0.60% 4044 RED0120-0385 60+94.91 7-5-2 RED0120-0650 2+50.00 S-470 VCP 8 250 0.60% 4044 RED0120-0640 14+86.00 RS-503 RED0120-0645 10+52.92 RS-893 VCP 8 117 1.08% 4043 RED0120-0635 18+00.00 RS-503 RED0120-0640 14+86.00 RS-503 VCP 12 310 0.32% 4043 RED0120-0395 73+52.25 7-5-2 RED0120-0635 18+00.00 RS-503 VCP 12 184 0.32% 4043 MCFADDEN ST RED0145-0145 15+61.00 RS-1020B RED0145-0150 16+11.00 RS-1020B VCP 8 50 0.32% 4045	RED0400-0070	4+31.00	TR-4511	RED0400-0075	6+63.96	TR-4511	VCP	8	233	0.40%	3646
MAYNARD WY RED0625-0335 3+52.50 AD-1 RED0625-0340 3+50.00 AD-1 VCP 8 350 10.56% 3449 / 3448 MCCLEAN DR HAT0305-0005 2+65.00 TR-8084 HAT0305-0015 4+55.38 TR-8084 VCP 8 190 10.32% 3849 HAT0305-0000 139+56.00 TR-8084 HAT0305-0005 2+65.00 TR-8084 VCP 8 265 1.64% 3849 MCFADDEN AV RED0120-0650 2+50.00 S-470 RED0120-0655 4+79.36 S-470 VCP 8 229 0.60% 4044 * RED0120-0385 60+94.91 7-5-2 RED0120-0650 2+50.00 S-470 VCP 8 250 0.60% 4044 RED0120-0640 14+86.00 RS-503 RED0120-0645 10+52.92 RS-893 VCP 8 117 1.08% 4043 * RED0120-0395 73+52.25 7-5-2 RED0120-0635 18+00.00 RS-503 VCP 12 184 0.32% 4043 <tr< td=""><td>RED0400-0065</td><td>1+74.26</td><td>TR-4511</td><td>RED0400-0070</td><td>4+31.00</td><td>TR-4511</td><td>VCP</td><td>8</td><td>257</td><td>0.40%</td><td>3646</td></tr<>	RED0400-0065	1+74.26	TR-4511	RED0400-0070	4+31.00	TR-4511	VCP	8	257	0.40%	3646
RED0625-0335 3+52.50 AD-1 RED0625-0340 3+50.00 AD-1 VCP 8 350 10.56% 3449 / 3448 MCCLEAN DR HAT0305-0005 2+65.00 TR-8084 HAT0305-0015 4+55.38 TR-8084 VCP 8 190 10.32% 3849 HAT0305-0000 139+56.00 TR-8084 HAT0305-0005 2+65.00 TR-8084 VCP 8 265 1.64% 3849 MCFADDEN AV RED0120-0650 2+50.00 S-470 RED0120-0655 4+79.36 S-470 VCP 8 229 0.60% 4044 RED0120-0385 60+94.91 7-5-2 RED0120-0650 2+50.00 S-470 VCP 8 250 0.60% 4044 RED0120-0640 14+86.00 RS-503 RED0120-0645 10+52.92 RS-893 VCP 8 117 1.08% 4043 RED0120-0635 18+00.00 RS-503 RED0120-0640 14+86.00 RS-503 VCP 12 310 0.32% 4043 * RED0120-0395 73+52.25 7-5-2 RED0120-0635 18+00.00 RS-503 VCP 12 184 0.32% 4043 MCFADDEN ST RED0145-0145 15+61.00 RS-1020B RED0145-0150 16+11.00 RS-1020B VCP 8 50 0.32% 4045	RED0400-0015	9+84.71	7-4B	RED0400-0065	1+74.26	TR-4511	VCP	8	146	2.56%	3646
MCCLEAN DR HAT0305-0005 2+65.00 TR-8084 HAT0305-0015 4+55.38 TR-8084 VCP 8 190 10.32% 3849 HAT0305-0000 139+56.00 TR-8084 HAT0305-0005 2+65.00 TR-8084 VCP 8 265 1.64% 3849 MCFADDEN AV RED0120-0650 2+50.00 S-470 RED0120-0655 4+79.36 S-470 VCP 8 229 0.60% 4044 * RED0120-0385 60+94.91 7-5-2 RED0120-0650 2+50.00 S-470 VCP 8 250 0.60% 4044 RED0120-0640 14+86.00 RS-503 RED0120-0645 10+52.92 RS-893 VCP 8 117 1.08% 4043 * RED0120-0635 18+00.00 RS-503 RED0120-0640 14+86.00 RS-503 VCP 12 310 0.32% 4043 * RED0120-0395 73+52.25 7-5-2 RED0120-0635 18+00.00 RS-503 VCP <td< td=""><td>MAYNARD WY</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	MAYNARD WY										
HAT0305-0005 2+65.00 TR-8084 HAT0305-0015 4+55.38 TR-8084 VCP 8 190 10.32% 3849 HAT0305-0000 139+56.00 TR-8084 HAT0305-0005 2+65.00 TR-8084 VCP 8 265 1.64% 3849 MCFADDEN AV RED0120-0650 2+50.00 S-470 RED0120-0655 4+79.36 S-470 VCP 8 229 0.60% 4044 * RED0120-0385 60+94.91 7-5-2 RED0120-0650 2+50.00 S-470 VCP 8 250 0.60% 4044 RED0120-0640 14+86.00 RS-503 RED0120-0645 10+52.92 RS-893 VCP 8 117 1.08% 4043 RED0120-0635 18+00.00 RS-503 RED0120-0640 14+86.00 RS-503 VCP 12 310 0.32% 4043 * RED0120-0395 73+52.25 7-5-2 RED0120-0635 18+00.00 RS-503 VCP 12 184 0.32% 4043 MCFADDEN ST RED0145-0145 15+61.00 RS-1020B RED0145-0150 16+11.00 RS-1020B VCP 8 50 0.32% 4045	RED0625-0335	3+52.50	AD-1	RED0625-0340	3+50.00	AD-1	VCP	8	350	10.56%	3449 / 3448
HAT0305-0000 139+56.00 TR-8084 HAT0305-0005 2+65.00 TR-8084 VCP 8 265 1.64% 3849 MCFADDEN AV RED0120-0650 2+50.00 S-470 RED0120-0655 4+79.36 S-470 VCP 8 229 0.60% 4044 * RED0120-0385 60+94.91 7-5-2 RED0120-0650 2+50.00 S-470 VCP 8 250 0.60% 4044 RED0120-0640 14+86.00 RS-503 RED0120-0645 10+52.92 RS-893 VCP 8 117 1.08% 4043 RED0120-0635 18+00.00 RS-503 RED0120-0640 14+86.00 RS-503 VCP 12 310 0.32% 4043 * RED0120-0395 73+52.25 7-5-2 RED0120-0635 18+00.00 RS-503 VCP 12 184 0.32% 4043 MCFADDEN ST RED0145-0145 15+61.00 RS-1020B RED0145-0150 16+11.00 RS-1020B VCP 8 50 0.32% 4045	MCCLEAN DR										
MCFADDEN AV RED0120-0650 2+50.00 S-470 RED0120-0655 4+79.36 S-470 VCP 8 229 0.60% 4044 * RED0120-0385 60+94.91 7-5-2 RED0120-0650 2+50.00 S-470 VCP 8 250 0.60% 4044 RED0120-0640 14+86.00 RS-503 RED0120-0645 10+52.92 RS-893 VCP 8 117 1.08% 4043 RED0120-0635 18+00.00 RS-503 RED0120-0640 14+86.00 RS-503 VCP 12 310 0.32% 4043 * RED0120-0395 73+52.25 7-5-2 RED0120-0635 18+00.00 RS-503 VCP 12 184 0.32% 4043 MCFADDEN ST RED0145-0145 15+61.00 RS-1020B RED0145-0150 16+11.00 RS-1020B VCP 8 50 0.32% 4045	HAT0305-0005	2+65.00	TR-8084	HAT0305-0015	4+55.38	TR-8084	VCP	8	190	10.32%	3849
RED0120-0650 2+50.00 S-470 RED0120-0655 4+79.36 S-470 VCP 8 229 0.60% 4044 * RED0120-0385 60+94.91 7-5-2 RED0120-0650 2+50.00 S-470 VCP 8 250 0.60% 4044 RED0120-0640 14+86.00 RS-503 RED0120-0645 10+52.92 RS-893 VCP 8 117 1.08% 4043 * RED0120-0635 18+00.00 RS-503 RED0120-0640 14+86.00 RS-503 VCP 12 310 0.32% 4043 * RED0120-0395 73+52.25 7-5-2 RED0120-0635 18+00.00 RS-503 VCP 12 184 0.32% 4043 MCFADDEN ST RED0145-0145 15+61.00 RS-1020B RED0145-0150 16+11.00 RS-1020B VCP 8 50 0.32% 4045	HAT0305-0000	139+56.00	TR-8084	HAT0305-0005	2+65.00	TR-8084	VCP	8	265	1.64%	3849
* RED0120-0385 60+94.91 7-5-2 RED0120-0650 2+50.00 S-470 VCP 8 250 0.60% 4044 RED0120-0640 14+86.00 RS-503 RED0120-0645 10+52.92 RS-893 VCP 8 117 1.08% 4043 RED0120-0635 18+00.00 RS-503 RED0120-0640 14+86.00 RS-503 VCP 12 310 0.32% 4043 RED0120-0395 73+52.25 7-5-2 RED0120-0635 18+00.00 RS-503 VCP 12 184 0.32% 4043 MCFADDEN ST RED0145-0145 15+61.00 RS-1020B RED0145-0150 16+11.00 RS-1020B VCP 8 50 0.32% 4045	MCFADDEN AV										
RED0120-0640 14+86.00 RS-503 RED0120-0645 10+52.92 RS-893 VCP 8 117 1.08% 4043 RED0120-0635 18+00.00 RS-503 RED0120-0640 14+86.00 RS-503 VCP 12 310 0.32% 4043 RED0120-0395 73+52.25 7-5-2 RED0120-0635 18+00.00 RS-503 VCP 12 184 0.32% 4043 MCFADDEN ST RED0145-0145 15+61.00 RS-1020B RED0145-0150 16+11.00 RS-1020B VCP 8 50 0.32% 4045	RED0120-0650	2+50.00	S-470	RED0120-0655	4+79.36	S-470	VCP	8	229	0.60%	4044
RED0120-0640 14+86.00 RS-503 RED0120-0645 10+52.92 RS-893 VCP 8 117 1.08% 4043 RED0120-0635 18+00.00 RS-503 RED0120-0640 14+86.00 RS-503 VCP 12 310 0.32% 4043 RED0120-0395 73+52.25 7-5-2 RED0120-0635 18+00.00 RS-503 VCP 12 184 0.32% 4043 MCFADDEN ST RED0145-0145 15+61.00 RS-1020B RED0145-0150 16+11.00 RS-1020B VCP 8 50 0.32% 4045	* RED0120-0385			RED0120-0650		S-470	VCP				4044
RED0120-0635 18+00.00 RS-503 RED0120-0640 14+86.00 RS-503 VCP 12 310 0.32% 4043 * RED0120-0395 73+52.25 7-5-2 RED0120-0635 18+00.00 RS-503 VCP 12 184 0.32% 4043 MCFADDEN ST RED0145-0145 15+61.00 RS-1020B RED0145-0150 16+11.00 RS-1020B VCP 8 50 0.32% 4045	RED0120-0640	14+86.00		RED0120-0645			VCP		117		4043
* RED0120-0395 73+52.25 7-5-2 RED0120-0635 18+00.00 RS-503 VCP 12 184 0.32% 4043 **MCFADDEN ST** RED0145-0145 15+61.00 RS-1020B RED0145-0150 16+11.00 RS-1020B VCP 8 50 0.32% 4045	RED0120-0635			RED0120-0640	14+86.00		VCP		310		4043
MCFADDEN ST RED0145-0145 15+61.00 RS-1020B RED0145-0150 16+11.00 RS-1020B VCP 8 50 0.32% 4045	* RED0120-0395			RED0120-0635	18+00.00				184		4043
	MCFADDEN ST										
	RED0145-0145	15+61.00	RS-1020B	RED0145-0150	16+11.00	RS-1020B	VCP	8	50	0.32%	4045
	RED0145-0140	12+80.50		RED0145-0145	15+61.00	RS-1020B	VCP	8	281	0.32%	4045

RED0145-0135 RED0145-0055 RED0145-0060	9+56.75	RS-1020B								
		V2-1050D	RED0145-0140	12+80.50	RS-1020B	VCP	8	281	0.32%	4045
RED0145-0060	32+54.70	7-2B	RED0145-0135	9+56.75	RS-1020B	VCP	8	121	2.38%	4045
	38+14.50	7-2B	RED0145-0065	0+00.00	S-531	VCP	8	354	0.36%	4044
RED0145-0055	32+54.70	7-2B	RED0145-0060	38+14.50	7-2B	VCP	10	530	0.56%	4045 / 4044
AR LN										
RED0135-0095	0+02.00	TR-4664	RED0135-0100	2+25.00	TR-4664	VCP	8	227	0.40%	4145
RED0135-0070	2+74.00	TR-4527	RED0135-0095	0+02.00	TR-4664	VCP	8	227	0.24%	4145
EDALLION AV										
RED0145-0067	UNK	UNK	RED0145-0070	7+02.80	S-531	VCP	8	200	0.00%	4044
RED0115-0150	2+82.01	TR-4250	RED0115-0155	5+51.48	TR-4250	VCP	8	269	0.40%	4044 / 4045
RED0115-0110	1+74.00	TR-4250	RED0115-0150	2+82.01	TR-4250	VCP	8	278	0.40%	4044
DFORD AV										
SUN0480-0375	2+63.00	AD-3B	SUN0480-0380	5+36.00	AD-4	VCP	8	273	1.20%	3647
SUN0480-0340	2+71.35	AD-3B	SUN0480-0375	2+63.00	AD-3B	VCP	8	263	1.20%	3647
RED0395-0240	5+55.56	TR-6082	RED0395-0245	8+99.09	TR-6082	VCP	8	344	0.24%	3645
RED0390-0705	5+91.45	RS-1005	RED0390-0710	2+09.38	RS-1004	VCP	8	296	0.40%	3645 / 3644
RED0390-0700	2+91.45	X-40	RED0390-0705	5+91.45	RS-1005	VCP	8	296	0.40%	3645
RED0390-0040	141+20.00	7-4-1	RED0390-0700	2+91.45	X-40	VCP	8	287	0.65%	3645
RED0390-0685	2+74.32	RS-861	RED0390-0695	3+99.32	RS-861	VCP	8	125	0.40%	3645
RED0390-0045	142+20.00	7-4-1	RED0390-0685	2+74.32	RS-861	VCP	8	274	0.40%	3645
EDIA PANORAMA										
SUN0480-1725	10+93.00	71-A	SUN0480-1730	12+69.00	SSI-D	VCP	8	172	3.13%	3348
SUN0480-1730	12+69.00	SSI-D	SUN0480-1690	UNK	71-A	VCP	8	41	1.00%	3348
ELVIN WY										
SUN0315-1020	3+54.82	TR-3715	SUN0315-1025	6+25.00	TR-3715	VCP	8	270	0.24%	3947
SUN0315-1015	1+75.00	TR-3715	SUN0315-1020	3+54.82	TR-3715	VCP	8	178	0.24%	3947
SUN0315-1010	10+73.54	7-36	SUN0315-1015	1+75.00	TR-3715	VCP	8	89	6.25%	3947
SUN0315-0100	68+62.41	7-36	SUN0315-1010	10+73.54	7-36	VCP	8	69	6.25%	3947
HAT0205-0225	0+00.00	TR-3857	HAT0205-0240	2+67.00	TR-3857	VCP	8	103	0.80%	3947
HAT0205-0220	5+16.93	TR-3858	HAT0205-0225	0+00.00	TR-3857	VCP	8	321	0.24%	3948 / 3947
REDITH DR										·
RED0395-0105	5+46.32	AD-3A	RED0395-0150	3+46.00	AD-3A	VCP	8	346	0.80%	3545
RVYN PL										
SUN0455-0090	0+00.00	TR-3793	SUN0455-0095	2+02.00	TR-3793	VCP	8	207	2.00%	3747
LFORD CIR										
SUN0480-0250	14+98.36	AD-3B	SUN0480-0270	1+90.00	AD-3B	VCP	8	190	0.40%	3647
LLER DR							_			
RED0315-0015	6+88.78	RS-732	RED0315-0020	9+69.16	RS-732	VCP	8	280	0.40%	3845
RED0315-0010	3+98.78	RS-732	RED0315-0015	6+88.78	RS-732	VCP	8	290	0.40%	3845
RED0315-0005	1+15.70	RS-732	RED0315-0010	3+98.78	RS-732	VCP	8	283	0.40%	3845
RED0313-0000	69+92.18	7-41	RED0313-0005	10+37.96	7-41	VCP	27	37	8.13%	3845
RED0313-0000	69+92.18	7-41	RED0315-0005	1+15.70	RS-732	VCP	27	127	14.36%	3845
MOSA LN	03.32.10			1.13.70	1.5 7.52	V C1	<i>- i</i>	± <i>E1</i>	11.50/0	30-13
RED0360-0060	9+27.79	RS-215	RED0360-0105	11+32.79	RS-217	VCP	8	205	0.24%	3745

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
RED0360-0060	9+27.79	RS-215	RED0360-0100	5+98.50	RS-226	VCP	8	392	0.40%	3745
RED0320-0075	4+49.03	RS-396	RED0320-0125	1+03.56	RS-396	VCP	8	99	0.66%	3745
RED0215-0110	2+55.00	RS-281	RED0215-0185	4+96.00	RS-281	VCP	8	241	0.80%	3845
MIRA VISTA DR										
HAT0000-0560	15+07.72	TR-4921	HAT0000-0565	18+19.40	TR-4921	VCP	8	312	5.44%	3552 / 3551
HAT0000-0555	13+59.13	TR-4921	HAT0000-0560	15+07.72	TR-4921	VCP	8	149	3.88%	3552
HAT0000-0554	13+51.13	TR-5369	HAT0000-0555	13+59.13	TR-4921	VCP	8	8	2.28%	3552
HAT0000-0550	11+79.54	TR-4921	HAT0000-0554	13+51.13	TR-5369	VCP	8	173	2.28%	3552
HAT0000-0545	8+55.97	TR-4921	HAT0000-0550	11+79.54	TR-4921	VCP	8	324	2.08%	3551 / 3552
HAT0000-0540	6+92.71	TR-4921	HAT0000-0545	8+55.97	TR-4921	VCP	8	163	7.60%	3551
HAT0000-0535	5+15.97	TR-4921	HAT0000-0540	6+92.71	TR-4921	VCP	8	177	13.23%	3551
HAT0000-0530	2+15.97	TR-4921	HAT0000-0535	5+15.97	TR-4921	VCP	8	300	13.37%	3551
HAT0000-0525	0+45.00	TR-4921	HAT0000-0530	2+15.97	TR-4921	VCP	8	171	5.36%	3551
MIRALAGO PL										
HAT0000-0660	3+15.00	TR-3914	HAT0000-0665	6+30.00	TR-3914	VCP	8	315	0.40%	3551
HAT0000-0575	19+46.16	TR-3914	HAT0000-0660	3+15.00	TR-3914	VCP	8	315	0.40%	3551
MIRIAM PL										
SUN0430-1830	4+03.02	AD-1	SUN0430-1885	4+97.09	AD-1	VCP	8	94	14.00%	3448
SUN0430-1620	6+43.67	AD-1	SUN0430-1830	4+03.02	AD-1	VCP	8	403	9.70%	3548 / 3448
MITCHELL AV										
SUN0340-0010	3+62.14	7-28	SUN0340-0015	4+85.28	7-28	VCP	8	123	0.30%	4045
SUN0340-0005	0+00.00	7-28	SUN0340-0010	3+62.14	7-28	VCP	8	362	0.30%	4045
SUN0340-0010	3+62.14	7-28	RED0205-0005	0+00.00	AD-2	VCP	8	15	2.40%	4045
RED0180-0005	3+16.94	TR-4251	RED0180-0010	6+27.94	TR-4251	VCP	8	315	0.54%	4045
* RED0180-0000	6+77.00	7-4-1	RED0180-0005	3+16.94	TR-4251	VCP	8	320	0.60%	4046 / 4045
HAT0145-0040	8+05.00	AD-6	HAT0145-0045	10+48.30	AD-6	VCP	8	243	0.48%	4146 / 4046
HAT0145-0035	3+87.00	AD-6	HAT0145-0040	8+05.00	AD-6	VCP	8	418	1.81%	4146
HAT0145-0030	0+00.00	AD-6	HAT0145-0035	3+87.00	AD-6	VCP	8	387	0.50%	4146
HAT0145-0025	16+11.88	RS-934	HAT0145-0030	0+00.00	AD-6	VCP	8	265	0.50%	4146
HAT0145-0020	17+98.89	RS-1265	HAT0145-0025	16+11.88	RS-934	VCP	8	187	0.50%	4146
HAT0145-0015	21+37.20	RS-1265	HAT0145-0020	17+98.89	RS-1265	VCP	8	337	0.50%	4146
HAT0145-0010	23+85.40	RS-1265	HAT0145-0015	21+37.20	RS-1265	VCP	8	250	0.50%	4146
HAT0145-0005	26+28.58	RS-1265	HAT0145-0010	23+85.40	RS-1265	VCP	8	243	0.50%	4147 / 4146
MITTMAN LN										
SUN0480-1265	0+80.00	AD-1	SUN0480-1280	4+26.00	AD-1	VCP	8	426	11.90%	3448
MONTAGNE DR										
RED0435-0190	3+51.13	AD3B	RED0435-0195	4+07.75	AD3B	VCP	8	408	1.00%	3546
MORGAN CIR										
SUN0140-0875	6+95.00	X-22	SUN0140-0890	3+43.00	X-22	VCP	8	348	0.40%	4244
MORNINGSIDE LN										
HAT0305-0015	4+55.38	TR-8084	HAT0305-0020	6+24.81	TR-8084	VCP	8	172	6.76%	3849
MORTON ST										
SUN0455-0025	2+75.00	TR-3793	SUN0455-0030	1+77.41	TR-3793	VCP	8	182	0.30%	3747

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
MOSHER AV										
SUN0140-0880	10+00.00	RS-906B	SUN0140-0885	12+53.46	RS-906B	VCP	8	253	1.20%	4244
SUN0140-0875	6+95.00	X-22	SUN0140-0880	10+00.00	RS-906B	VCP	8	305	0.40%	4244
SUN0140-0870	3+50.00	RS-906B	SUN0140-0875	6+95.00	X-22	VCP	8	345	0.40%	4244
* SUN0140-0750	37+90.00	7-2-R	SUN0140-0870	3+50.00	RS-906B	VCP	8	368	0.45%	4244
MOUNTAIN VIEW DR										
RED0215-0245	3+39.50	S-116	RED0215-0250	6+80.00	S-116	VCP	8	341	0.60%	3845
RED0215-0220	5+79.52	S-112	RED0215-0245	3+39.50	S-116	VCP	8	339	0.88%	3845
MT HOOD DR							,			
RED0435-0180	5+23.71	AD3B	RED0435-0215	8+73.71	AD3B	VCP	8	350	0.80%	3546
RED0435-0175	2+62.85	AD3B	RED0435-0180	5+23.71	AD3B	VCP	8	261	0.40%	3546
RED0435-0020	6+03.12	7-4B	RED0435-0175	2+62.85	AD3B	VÇP	8	263	0.40%	3546
MUMFORD DR										
SUN0315-2620	2+88.40	TR-6362	SUN0315-2745	3+96.91	TR-6507	VCP	8	397	1.72%	3550
MUNTON CIR										
HAT0090-0000	0+93.20	RS-498	HAT0090-0005	4+31.81	RS-490	VCP	8	93	0.60%	4246
MURIEL PL										
SUN0480-0560	4+38.00	AD-3B	SUN0480-0565	5+60.00	AD-3B	VCP	8	122	0.40%	3647
SUN0480-0555	2+88.00	AD-3B	SUN0480-0560	4+38.00	AD-3B	VCP	8	150	0.40%	3647
* SUN0480-0030	125+50.27	7-39	SUN0480-0555	2+88.00	AD-3B	VCP	8	295	0.45%	3647
MYRTLE AV										
RED0215-0450	7+70.42	S-105	RED0215-0455	11+07.33	S-105	VCP	8	337	1.00%	3944 / 3844
RED0215-0445	5+69.22	S-105	RED0215-0450	7+70.42	S-105	VCP	8	201	0.88%	3944
RED0215-0440	3+68.02	S-105	RED0215-0445	5+69.22	S-105	VCP	8	201	0.83%	3944
RED0215-0435	6+99.25	S-104	RED0215-0440	3+68.02	S-105	VCP	8	332	7.18%	3944
RED0115-0105	11+00.00	R-192	RED0145-0060	38+14.50	7-2B	VCP	8	160	2.30%	4044
RED0115-0130	10+96.04	TR-4250	RED0115-0135	11+96.04	RS-594	VCP	8	100	0.40%	4044 / 3944
RED0115-0125	9+71.54	TR-4520	RED0115-0130	10+96.04	TR-4250	VCP	8	125	2.00%	4044
RED0115-0120	7+00.00	TR-4250	RED0115-0125	9+71.54	TR-4520	VCP	8	272	0.60%	4044
RED0115-0115	4+50.00	TR-4250	RED0115-0120	7+00.00	TR-4250	VCP	8	250	0.40%	4044
RED0115-0110	1+74.00	TR-4250	RED0115-0115	4+50.00	TR-4250	VCP	8	276	0.40%	4044
RED0145-0060	38+14.50	7-2B	RED0115-0110	1+74.00	TR-4250	VCP	8	170	0.40%	4044
RED0115-0100	7+70.00	R-192	RED0115-0105	11+00.00	R-192	VCP	8	330	0.32%	4044
RED0115-0095	4+70.00	R-192	RED0115-0100	7+70.00	R-192	VCP	8	300	0.32%	4044
RED0115-0090	3+07.00	R-192	RED0115-0095	4+70.00	R-192	VCP	8	163	0.32%	4044
RED0115-0085	4+65.46	RS-273	RED0115-0090	3+07.00	R-192	VCP	8	316	0.32%	4044
NANTUCKET PL										
HAT0080-0045	2+52.00	RS-481	HAT0080-0050	4+64.40	RS-481	VCP	8	212	0.40%	4246 / 4146
HAT0080-0040	10+44.33	RS-481	HAT0080-0045	2+52.00	RS-481	VCP	8	252	0.40%	4246
NAPA ST										
SUN0315-1835	4+31.00	TR-7580	SUN0315-1840	6+64.50	TR-7580	VCP	8	234	0.40%	3747
SUN0315-1830	1+81.00	TR-7580	SUN0315-1835	4+31.00	TR-7580	VCP	8	250	0.80%	3747
NEWHAVEN DR										

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0480-1050	3+86.00	AD3B	SUN0480-1060	0+55.00	AD3B	VCP	8	55	0.40%	3547
SUN0480-1050	3+86.00	AD3B	SUN0480-1055	4+60.00	AD3B	VCP	8	460	1.00%	3547
EWPORT AV										
SUN0430-0075	11+36.00	AD-5A	SUN0430-2025	1+90.00	AD5A	VCP	8	186	0.34%	3748
SUN0430-0375	6+24.52	SSI-E	SUN0430-0380	6+59.52	SSI-E	VCP	8	35	6.14%	3449
SUN0430-0370	3+74.52	SSI-E	SUN0430-0375	6+24.52	SSI-E	VCP	8	250	6.12%	3449
SUN0430-0365	1+61.46	SSI-E	SUN0430-0370	3+74.52	SSI-E	VCP	8	213	43.20%	3449
SUN0430-0195	49+37.45	7-3A-4A	SUN0430-0365	1+61.46	SSI-E	VCP	8	151	2.72%	3449
SUN0430-0190	46+54.86	7-3A-4A	SUN0430-0195	49+37.45	7-3A-4A	VCP	8	283	1.76%	3549 / 3449
SUN0430-0185	44+62.86	7-3A-4A	SUN0430-0190	46+54.86	7-3A-4A	VCP	8	192	3.20%	3549
SUN0430-0180	42+49.44	7-3A-4A	SUN0430-0185	44+62.86	7-3A-4A	VCP	8	211	3.20%	3549
SUN0430-0175	38+50.00	7-3A-4A	SUN0430-0180	42+49.44	7-3A-4A	VCP	8	399	2.28%	3549
SUN0430-0173	37+22.00	7-3A	SUN0430-0175	38+50.00	7-3A-4A	VCP	8	128	2.40%	3549
SUN0430-0170	34+53.86	7-3A-4A	SUN0430-0173	37+22.00	7-3A	VCP	8	268	2.40%	3549
SUN0430-0165	33+39.69	7-3A-4A	SUN0430-0170	34+53.86	7-3A-4A	VCP	8	114	2.40%	3549
SUN0430-0160	30+04.85	7-3A-4A	SUN0430-0165	33+39.69	7-3A-4A	VCP	8	335	2.40%	3549
SUN0430-0155	0+00.00	TR-3556	SUN0430-0160	30+04.85	7-3A-4A	VCP	8	140	2.48%	3549
SUN0430-0150	24+60.00	7-3A-4A	SUN0430-0155	0+00.00	TR-3556	VCP	8	405	2.48%	3549
SUN0430-0145	19+60.32	7-3A-4A	SUN0430-0150	24+60.00	7-3A-4A	VCP	8	500	2.48%	3549
SUN0430-0140	16+96.34	7-3A-4A	SUN0430-0145	19+60.32	7-3A-4A	VCP	8	259	4.40%	3548 / 3549
SUN0430-0135	25+41.00	7-3A-4A	SUN0430-0140	16+96.34	7-3A-4A	VCP	8	390	2.90%	3648 / 3548
SUN0430-0130	20+62.00	7-3A-4A	SUN0430-0135	25+41.00	7-3A-4A	VCP	8	479	2.08%	3648
SUN0430-0125	19+92.00	TR-10398	SUN0430-0130	20+62.00	7-3A-4A	VCP	8	64	2.08%	3648
SUN0430-0120	16+01.24	7-3A-4A	SUN0430-0125	19+92.00	TR-10398	VCP	8	415	2.08%	3648
SUN0430-0115	37+11.93	7-3E	SUN0430-0120	16+01.24	7-3A-4A	VCP	8	271	2.49%	3648
SUN0430-0110	32+79.43	7-3E	SUN0430-0115	37+11.93	7-3E	VCP	8	433	2.00%	3648
SUN0430-0105	28+46.93	7-3E	SUN0430-0110	32+79.43	7-3E	VCP	8	433	2.00%	3648
SUN0430-0100	25+01.54	73E	SUN0430-0105	28+46.93	7-3E	VCP	8	345	1.20%	3648
SUN0430-0095	21+56.15	TR-3883	SUN0430-0100	25+01,54	73E	VCP	8	345	1.20%	3648
SUN0430-0090	17+08.95	TR-5794	SUN0430-0095	21+56.15	TR-3883	VCP	8	447	2.00%	3748 / 3648
SUN0430-0085	14+24.57	7-3E	SUN0430-0090	17+08.95	TR-5794	VCP	8	284	2.00%	3748
SUN0430-0080	13+22.57	73E	SUN0430-0085	14+24.57	7-3E	VCP	8	102	2.00%	3748
SUN0430-0075	11+36.00	AD-5A	SUN0430-0080	13+22.57	73E	VCP	8	179	2.61%	3748
SUN0430-0070	10+43.12	TR-5794	SUN0430-0075	11+36.00	AD-5A	VCP	8	100	2.46%	3748
SUN0430-0065	7+63.68	7-3E	SUN0430-0070	10+43.12	TR-5794	VCP	8	279	0.40%	3747 / 3748
SUN0430-0060	3+81.84	7-3E	SUN0430-0065	7+63.68	7-3E	VCP	8	382	0.40%	3747
SUN0430-0055	26+37.13	7-3E	SUN0430-0060	3+81.84	7-3E	VCP	8	376	2.00%	3747
SUN0430-0051	25+46.62	7-3E	SUN0430-0055	26+37.13	7-3E	VCP	8	87	1.26%	3747
SUN0430-0050	24+16.00	AD2	SUN0430-0051	25+46.62	7-3E	VCP	8	131	0.72%	3747
SUN0430-0045	22+16.62	7-3E	SUN0430-0050	24+16.00	AD2	VCP	8	199	0.72%	3747
SUN0430-0040	19+61.41	7-3E	SUN0430-0045	22+16.62	7-3E	VCP	8	255	0.72%	3747
SUN0430-0035	17+06.41	7-3E	SUN0430-0040	19+61.41	7-3E	VCP	8	255	0.72%	3747
SUN0430-0030	13+56.41	7-3E	SUN0430-0035	17+06.41	7-3E	VCP	8	350	0.86%	3747

DOWNSTREAM ME	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0430-0025	10+06.41	7-3E	SUN0430-0030	13+56.41	7-3E	VCP	8	350	2.80%	3847 / 3747
SUN0430-0020	6+56.41	7-3E	SUN0430-0025	10+06.41	7-3E	VCP	8	350	2.80%	3847
SUN0430-0015	4+19.00	7-3E-2	SUN0430-0020	6+56.41	7-3E	VCP	8	237	1.40%	3847
SUN0430-0010	96+62.00	7-3E-2	SUN0430-0015	4+19.00	7-3E-2	VCP	15	32	0.16%	3847
SUN0315-1145	3+29.00	7-3E	SUN0430-0015	4+19.00	7-3E-2	VCP	8	90	1.40%	3847
SUN0430-0005	91+20.00	7-3E-2	SUN0430-0010	96+62.00	7-3E-2	VCP	15	542	0.16%	3847
* SUN0430-0000	86+47.66	7-6-6	SUN0430-0005	91+20.00	7-3E-2	VCP	15	475	19.49%	3846 / 3847
SUN0400-0050	7+40.00	AD-2	SUN0400-0055	11+04.00	AD-2	VCP	8	364	0.26%	3846 / 3847
SUN0400-0045	4+65.00	AD-2	SUN0400-0050	7+40.00	AD-2	VCP	8	275	0.40%	3846
SUN0400-0040	3+95.00	AD-2	SUN0400-0045	4+65.00	AD-2	VCP	8	70	UNK	3846
SUN0400-0035	0+32.00	AD-2	SUN0400-0040	3+95.00	AD-2	VCP	8	364	0.32%	3846
* SUN0410-0000	76+62.09	7-6-6	SUN0400-0035	0+32.00	AD-2	VCP	8	26	0.40%	3846
SUN0400-0025	36+80.73	7-3B	SUN0400-0030	37+50.73	7-3B	VCP	12	70	0.32%	3846
SUN0400-0015	22+87.00	S-540B	SUN0400-0025	36+80.73	7-3B	VCP	12	195	0.32%	3846
SUN0400-0010	31+50.00	7-3B	SUN0400-0015	22+87.00	S-540B	VCP	12	336	0.32%	3846
SUN0400-0005	26+30.66	7-3B	SUN0400-0010	31+50.00	7-3B	VCP	12	536	0.32%	3946 / 3846
* SUN0400-0000	65+96.00	7-6-6	SUN0400-0005	26+30.66	7-3B	VCP	12	7	0.80%	3946
SUN0340-0030	3+33.00	RS-411	SUN0340-0035	4+87.73	RS-411	VCP	8	155	0.28%	4045
SUN0340-0005	0+00.00	7-28	SUN0340-0030	3+33.00	RS-411	VCP	8	315	0.28%	4045
* SUN0340-0000	26+18.00	7-6-6	SUN0340-0005	0+00.00	7-28	VCP	8	22	18.17%	4045
SUN0315-3730	1+84.85	TR-3731	SUN0315-3735	11+46.99	TR-3731	VCP	8	240	1.35%	3549
SUN0315-1150	0+43.00	AD-2	SUN0315-1155	3+98.00	AD-2	VCP	8	355	0.40%	3847
SUN0315-1140	26+36.48	7-3E	SUN0315-1145	3+29.00	7-3E	VCP	8	325	1.40%	3847
SUN0315-0735	0+35.00	7-3B	SUN0315-0740	0+13.00	S-134	VCP	8	186	0.30%	3946
SUN0315-0415	3+60.00	RS-624	SUN0315-0420	2+03.00	RS-624	VCP	8	110	0.40%	3945
SUN0315-0410	2+74.00	S-525	SUN0315-0415	3+60.00	RS-624	VCP	8	82	0.40%	3945
SUN0315-0405	6+80.00	S-136	SUN0315-0410	2+74.00	S-525	VCP	8	284	0.40%	3945
RED0145-0045	26+70.38	7-2B	RED0145-0160	3+18.00	RS-355	VCP	8	318	0.80%	4045
RED0145-0150	16+11.00	RS-1020B	RED0145-0155	17+36.00	RS-1020B	VCP	8	125	0.32%	4045
RED0135-0050	16+51.00	S-576	RED0135-0055	17+30.00	S-576	VCP	8	79	0.50%	4044
RED0135-0045	13+83.51	7-4-2R	RED0135-0050	16+51.00	S-576	VCP	8	268	0.50%	4044
RED0115-0075	17+04.54	7-4-2R	RED0135-0045	13+83.51	7-4-2R	VCP	8	48	0.48%	4044
RED0115-0075	17+04.54	7-4-2R	RED0115-0235	4+06.93	RS-275	VCP	8	314	0.40%	4044 / 4144
RED0115-0180	1+80.00	RS-273	RED0115-0185	2+05.00	X-34	VCP	8	205	0.54%	4045
RED0115-0085	4+65.46	RS-273	RED0115-0180	1+80.00	RS-273	VCP	8	178	0.54%	4044 / 4045
RED0115-0082	0+24.00	S-529	RED0115-0085	4+65.46	RS-273	VCP	8	252	0.48%	4044
RED0115-0080	0+00.00	S-529	RED0115-0082	0+24.00	S-529	VCP	8	24	0.48%	4044
RED0115-0075	17+04.54	7-4-2R	RED0115-0080	0+00.00	S-529	VCP	8	185	0.48%	4044
RED0115-0070	17+00.79	7-4-2R	RED0115-0075	17+04.54	7-4-2R	VCP	10	8	1.17%	4044
RED0115-0065	12+80.00	7-4-2R	RED0115-0070	17+00.79	7-4-2R	VCP	10	421	0.96%	4144 / 4044
RED0115-0060	9+10.00	7-4-2R	RED0115-0065	12+80.00	7-4-2R	VCP	12	370	0.36%	4144
RED0115-0055	8+59.97	7-4-2R	RED0115-0060	9+10.00	7-4-2R	VCP	12	50	0.36%	4144
RED0115-0050	5+20.00	7-4-2R	RED0115-0055	8+59.97	7-4-2R	VCP	12	340	0.36%	4144

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
RED0087-0055	44+33.46	SSI-E	RED0087-0060	47+74.66	SSI-E	VCP	10	340	0.75%	4144
RED0087-0050	41+14.22	SSI-E	RED0087-0055	44+33.46	SSI-E	VCP	10	319	0.75%	4144
RED0087-0045	37+98.36	SSI-E	RED0087-0050	41+14.22	SSI-E	VCP	10	316	0.76%	4144
RED0087-0040	35+46.68	SSI-E	RED0087-0045	37+98.36	SSI-E	VCP	10	268	0.43%	4244 / 4144
RED0087-0035	32+80.10	SSI-E	RED0087-0040	35+46.68	SSI-E	VCP	10	267	0.43%	4244
RED0087-0030	30+44.67	SSI-E	RED0087-0035	32+80.10	SSI-E	VCP	10	235	0.45%	4244
RED0087-0025	27+17.14	SSI-E	RED0087-0030	30+44.67	SSI-E	VCP	10	328	0.45%	4244
RED0085-0025	17+05.00	X-31	RED0085-0065	3+33.13	RS-981B	VCP	8	329	0.32%	4244
WPORT BLVD										
SUN0430-0935	21+93.00	TR-5448	SUN0430-0940	322+38.39	SSI-B	VCP	8	46	0.61%	3550
SUN0430-0930	20+72.99	SSI-E	SUN0430-0935	21+93.00	TR-5448	VCP	8	120	0.52%	3550
SUN0430-0925	18+70.35	SSI-E	SUN0430-0930	20+72.99	SSI-E	VCP	10	203	0.52%	3550
SUN0430-0920	0+00.00	TR-8212	SUN0430-0925	18+70.35	SSI-E	VCP	10	212	0.52%	3450 / 3550
SUN0430-0915	15+79.09	SSI-E	SUN0430-0920	0+00.00	TR-8212	VCP	10	80	0.52%	3450
SUN0430-0910	11+69.60	SSI-E	SUN0430-0915	15+79.09	SSI-E	VCP	8	414	5.68%	3450
SUN0430-0905	9+74.97	SSI-E	SUN0430-0910	11+69.60	SSI-E	VCP	8	205	5.58%	3450
SUN0430-0380	6+59.52	SSI-E	SUN0430-0905	9+74.97	SSI-E	VCP	8	305	6.14%	3449 / 3450
SUN0430-0490	25+87.99	TR-9606	SUN0430-0675	27+31.05	SSI-E	VCP	8	143	0.40%	3351
SUN0430-0487	24+19.00	1-17	SUN0430-0490	25+87.99	TR-9606	VCP	8	169	0.40%	3351
SUN0430-0485	22+00.00	TR-9606	SUN0430-0487	24+19.00	1-17	VCP	8	219	0.40%	3351
SUN0430-0480	18+50.00	TR-9606	SUN0430-0485	22+00.00	TR-9606	VCP	8	350	3.48%	3451 / 3351
SUN0430-0475	15+00.00	TR-9606	SUN0430-0480	18+50.00	TR-9606	VCP	8	350	8.20%	3451
SUN0430-0470	12+00.36	TR-9606	SUN0430-0475	15+00.00	TR-9606	VCP	8	300	10.88%	3451
SUN0430-0465	11+50.00	TR-9606	SUN0430-0470	12+00.36	TR-9606	VCP	8	50	1.00%	3451
SUN0430-0460	10+28.39	TR-9606	SUN0430-0465	11+50.00	TR-9606	VCP	8	122	3.76%	3451
SUN0430-0455	7+74.00	TR-9326	SUN0430-0460	10+28.39	TR-9606	VCP	8	151	9.68%	3451
SUN0430-0450	5+79.19	TR-9326	SUN0430-0455	7+74.00	TR-9326	VCP	8	195	7.20%	3451
SUN0430-0445	3+05.00	TR-9326	SUN0430-0450	5+79.19	TR-9326	VCP	8	274	8.38%	3450 / 3451
SUN0430-0440	0+17.50	TR-9326	SUN0430-0445	3+05.00	TR-9326	VCP	8	288	4.99%	3450
SUN0430-0435	1+34.83	SSI-D	SUN0430-0440	0+17.50	TR-9326	VCP	8	18	4.99%	3450
SUN0430-0430	25+17.68	TR-1917	SUN0430-0435	1+34.83	SSI-D	VCP	8	135	4.00%	3450
SUN0430-0425	20+97.76	TR-1917	SUN0430-0430	25+17.68	TR-1917	VCP	8	412	4.40%	3450
SUN0430-0420	14+88.69	TR-1917	SUN0430-0425	20+97.76	TR-1917	VCP	8	603	3.84%	3450
SUN0430-0415	13+25.16	TR-1917	SUN0430-0420	14+88.69	TR-1917	VCP	8	153	1.72%	3450
NTON AV										
SUN0480-0520	0+00.00	TR-6071	SUN0480-0525	2+41.92	TR-6071	VCP	8	242	0.40%	3648
SUN0480-0515	11+44.00	TR-4155	SUN0480-0520	0+00.00	TR-6071	VCP	8	160	0.60%	3648
SUN0480-0365	2+50.00	AD-3B	SUN0480-0370	5+10.00	AD-4	VCP	8	260	1.00%	3647
SUN0480-0345	5+31.99	AD-3B	SUN0480-0365	2+50.00	AD-3B	VCP	8	250	1.00%	3647
SON RD										
SUN0315-0035	236+93.86	TSI-7	SUN0315-0300	2+56.92	TSI-7	VCP	8	258	0.40%	4046
SUN0315-0031	19+72.51	7-36	SUN0315-3990	10+90.00	7-36	VCP	8	90	1.02%	4046
RED0190-0017	1+95.00	S-143	RED0190-0019	5+30.00	S-143	VCP	8	335	0.44%	4045
RED0190-0015	9+21.78	S-143	RED0190-0017	1+95.00	S-143	VCP	8	195	0.44%	4045

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
HAT0170-0015	8+00.00	AD-5A	HAT0170-0020	11+75.00	AD-5A	VCP	8	375	0.48%	4047
HAT0170-0010	4+00.00	AD-5A	HAT0170-0015	8+00.00	AD-5A	VCP	8	400	0.48%	4147 / 4047
HAT0170-0005	1+84.50	S-642	HAT0170-0010	4+00.00	AD-5A	VCP	8	216	0.92%	4147
HAT0170-0000	52+80.19	7-22	HAT0170-0005	1+84.50	S-642	VCP	8	183	0.92%	4147
NIXON CIR										
HAT0225-0020	5+07.20	RS-581	HAT0225-0030	1+19.27	RS-582	VCP	8	119	2.12%	3947
HAT0225-0020	5+07.20	RS-581	HAT0225-0025	3+81.31	RS-582	VCP	8	381	0.40%	3947
NORFOLK DR										
SUN0430-0665	7+58.63	TR-9606	SUN0430-0670	10+40.41	TR-9606	VCP	8	282	0.56%	3351
SUN0430-0660	5+58.94	TR-9606	SUN0430-0665	7+58.63	TR-9606	VCP	8	200	0.62%	3351
SUN0430-0655	3+73.70	TR-9606	SUN0430-0660	5+58.94	TR-9606	VCP	8	185	0.96%	3351
SUN0430-0605	3+00.96	TR-9606	SUN0430-0655	3+73.70	TR-9606	VÇP	8	73	0.40%	3351
SUN0430-0520	15+95.10	TR-9606	SUN0430-0605	3+00.96	TR-9606	VCP	8	201	0.40%	3351
NORWOOD PARK PL										
RED0345-0015	8+00.00	AD-2	RED0345-0020	11+75.00	AD-2	VCP	8	375	0.40%	3746
RED0345-0010	4+00.00	AD-2	RED0345-0015	8+00.00	AD-2	VCP	8	400	0.40%	3745 / 3746
RED0345-0005	99+96.24	7-4-1	RED0345-0010	4+00.00	AD-2	VCP	8	400	1.00%	3745
* RED0345-0000	87+65.01	7-41	RED0345-0005	99+96.24	7-4-1	VCP	8	25	11.60%	3745
RED0340-0010	6+95.00	TR-5658	RED0340-0015	10+45.00	TR-5658	VCP	8	350	0.36%	3745
RED0340-0005	3+45.00	TR-5658	RED0340-0010	6+95.00	TR-5658	VCP	8	350	0.36%	3745
* RED0340-0000	86+69.37	7-41	RED0340-0005	3+45.00	TR-5658	VCP	8	313	0.36%	3745
RED0320-0110	1+28.00	RS-395	RED0320-0115	1+90.47	RS-395	VCP	8	165	0.24%	3744
RED0320-0080	1+73.01	RS-1470	RED0320-0085	2+44.87	RS-395	VCP	8	198	1.65%	3745 / 3744
RED0320-0075	4+49.03	RS-396	RED0320-0080	1+73.01	RS-1470	VCP	8	276	0.32%	3745
RED0320-0070	7+25.05	RS-396	RED0320-0075	4+49.03	RS-396	VCP	8	276	0.32%	3745
NORWOOD PK										
SUN0415-0335	3+86.00	AD-2	SUN0415-0340	7+76.54	AD-5A	VCP	8	391	0.40%	3746
SUN0415-0310	6+84.25	AD-5A	SUN0415-0335	3+86.00	AD-2	VCP	8	386	0.40%	3746
OAK GROVE CIR										
SUN0315-2465	6+38.48	AD-5A	SUN0315-2515	5+38.51	TR-5520	VCP	8	65	2.00%	3649
SUN0315-2460	4+97.26	AD-5A	SUN0315-2465	6+38.48	AD-5A	VCP	8	141	4.14%	3649
SUN0315-2440	1+75.00	AD-5A	SUN0315-2460	4+97.26	AD-5A	VCP	8	327	7.08%	3649
OAK LN							_			
SUN0480-0790	5+22.00	7-3B	SUN0480-0830	3+50.00	AD-4	VCP	8	350	1.00%	3647 / 3547
OAK RIDGE DR							_			33.1,33.1
SUN0500-0065	4+50.86	AD-3B	SUN0500-0080	2+70.00	AD-3B	VCP	8	270	1.40%	3547
SUN0500-0035	4+48.23	TR-3991	SUN0500-0050	1+47.00	TR-8616	VCP	8	147	0.40%	3547
SUN0480-0840	2+55.00	AD-3B	SUN0480-0845	5+10.00	AD-4	VCP	8	255	0.40%	3547
SUN0480-0835	10+42.46	7-39	SUN0480-0840	2+55.00	AD-3B	VCP	8	213	1.40%	3547
* SUN0480-0065	145+84.18	7-39	SUN0480-0835	10+42.46	7-39	VCP	8	38	3.00%	3547
RED0435-0220	3+46.20	AD3B	RED0435-0225	7+76.20	AD3B	VCP	8	430	1.80%	3546
RED0435-0175	2+62.85	AD3B	RED0435-0220	3+46.20	AD3B	VCP	8	346	0.40%	3546
RED0435-0050	2+79.53	AD3B	RED0435-0110	2+54.56	AD3B	VCP	8	255	0.40%	3546
NEDU433-0030	ZT/3.33	ADOD	Urdo422-0110	ZT34.30	ADOD	I ACL	O	255	0.40%	3340

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RED0435-0100	3+85.17	AD3B	RED0435-0105	5+07.67	AD3B	VCP	8	123	1.00%	3547
RED0435-0095	1+86.75	AD3B	RED0435-0100	3+85.17	AD3B	VCP	8	198	1.00%	3547
RED0435-0050	2+79.53	AD3B	RED0435-0095	1+86.75	AD3B	VCP	8	187	0.60%	3546 / 3547
OLD FOOTHILL BLVD										
SUN0480-1322	0+92.00	AD-1	SUN0480-1330	4+47.82	AD-2	VCP	8	355	0.32%	3448
SUN0480-1320	5+31.64	7-4C	SUN0480-1325	5+05.63	AD-1	VCP	8	506	0.32%	3448 / 3447
SUN0480-1320	5+31.64	7-4C	SUN0480-1322	0+92.00	AD-1	VCP	8	92	0.32%	3448
SUN0430-1605	27+54.64	7-3A-4A	SUN0430-1905	3+35.00	AD-1	VCP	8	335	1.52%	3548
SUN0430-1600	25+13.56	7-3A-4A	SUN0430-1605	27+54.64	7-3A-4A	VCP	8	241	0.32%	3548
SUN0430-1595	21+85.76	7-3A-4A	SUN0430-1600	25+13.56	7-3A-4A	VCP	8	328	0.32%	3548
SUN0430-1590	17+93.71	7-3A-4A	SUN0430-1595	21+85.76	7-3A-4A	VCP	8	392	0.32%	3548
SUN0430-1585	16+31.34	7-3A-4A	SUN0430-1590	17+93.71	7-3A-4A	VÇP	8	162	0.32%	3548
OLD IRVINE BLVD										
SUN0315-1140	26+36.48	7-3E	SUN0315-1150	0+43.00	AD-2	VCP	8	43	9.00%	3847
SUN0315-1135	22+25.90	7-3E	SUN0315-1140	26+36.48	7-3E	VCP	8	411	0.68%	3847
SUN0315-1130	18+10.90	7-3E	SUN0315-1135	22+25.90	7-3E	VCP	8	415	0.68%	3847
OLIVE TREE CIR										
RED0360-0005	7+65.00	TR-3798	RED0360-0165	2+23.00	TR-3798	VCP	8	218	0.24%	3745
OLWYN DR										
SUN0315-0960	3+94.12	TR-4521	SUN0315-0965	0+00.00	TR-4521	VCP	8	180	0.72%	3847
SUN0315-0955	1+62.57	TR-4521	SUN0315-0960	3+94.12	TR-4521	VCP	8	232	0.12%	3947 / 3847
SUN0315-0950	5+01.70	RS-237	SUN0315-0955	1+62.57	TR-4521	VCP	8	326	0.32%	3947
SUN0315-0945	2+00.70	RS-237	SUN0315-0950	5+01.70	RS-237	VCP	8	311	0.40%	3947
SUN0315-0940	10+62.84	7-36	SUN0315-0945	2+00.70	RS-237	VCP	8	144	0.40%	3947
SUN0315-0095	64+84.77	7-36	SUN0315-0940	10+62.84	7-36	VCP	8	58	10.32%	3947
OLYMPIA WY										
RED0485-0160	2+91.76	AD-3A	RED0485-0165	5+66.76	AD-3A	VCP	8	275	0.80%	3446
RED0485-0140	2+94.99	AD-3A	RED0485-0160	2+91.76	AD-3A	VCP	8	292	0.80%	3446
RED0485-0105	2+41.00	AD-3A	RED0485-0110	4+82.00	AD-3A	VCP	8	241	0.40%	3446
RED0485-0020	88+01.49	4-17	RED0485-0105	2+41.00	AD-3A	VCP	8	241	0.40%	3446
RED0445-0060	8+00.00	AD3B	RED0445-0065	10+30.00	AD3B	VCP	8	230	1.00%	3546
RED0445-0055	4+00.00	AD3B	RED0445-0060	8+00.00	AD3B	VCP	8	400	0.60%	3546
RED0445-0025	13+00.80	AD3B	RED0445-0055	4+00.00	AD3B	VCP	8	400	1.00%	3546
OMEGA DR										
HAT0330-0005	2+50.00	TR-3520	HAT0330-0010	5+62.00	TR-3520	VCP	8	312	1.92%	3849
HAT0330-0000	154+81.02	7-3D	HAT0330-0005	2+50.00	TR-3520	VCP	8	258	2.30%	3849
HAT0290-0085	3+00.00	AD-4	HAT0290-0090	5+70.00	AD-4	VCP	8	270	2.40%	3849
HAT0290-0065	3+87.67	AD-4	HAT0290-0085	3+00.00	AD-4	VCP	8	300	0.80%	3850 / 3849
ORANGE KNOLL DR										
SUN0430-1940	6+17.86	TR-5745	SUN0430-1945	8+62.44	TR-5745	VCP	8	245	8.00%	3548 / 3549
SUN0430-1935	3+07.86	TR-5745	SUN0430-1940	6+17.86	TR-5745	VCP	8	310	8.00%	3548
SUN0430-1565	6+22.00	7-3A-4A	SUN0430-1935	3+07.86	TR-5745	VCP	8	308	2.00%	3548
ORANGE ST										

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0315-0345	20+44.91	RS-671	SUN0315-0390	0+54.00	RS-671	VCP	8	54	0.40%	4046
SUN0315-0370	11+16.00	S-137	SUN0315-0375	13+53.00	S-137	VCP	8	237	0.32%	3946
SUN0315-0365	8+96.00	S-137	SUN0315-0370	11+16.00	S-137	VCP	8	221	0.32%	3946
SUN0315-0360	6+76.00	S-137	SUN0315-0365	8+96.00	S-137	VCP	8	220	0.32%	3946
SUN0315-0355	4+66.00	S-137	SUN0315-0360	6+76.00	S-137	VCP	8	210	0.32%	3946
SUN0315-0350	2+60.00	S-137	SUN0315-0355	4+66.00	S-137	VCP	8	210	0.32%	3946
SUN0315-0345	20+44.91	RS-671	SUN0315-0350	2+60.00	S-137	VCP	8	231	0.33%	4046 / 3946
ORANGE TREE LN										
RED0350-0015	7+00.00	AD-2	RED0350-0020	10+42.00	AD-2	VCP	8	342	0.40%	3746
RED0350-0010	3+50.00	AD-2	RED0350-0015	7+00.00	AD-2	VCP	8	350	0.40%	3745 / 3746
RED0350-0005	102+44.04	7-4-1	RED0350-0010	3+50.00	AD-2	VCP	8	350	1.00%	3745
* RED0350-0000	90+13.09	7-41	RED0350-0005	102+44.04	7-4-1	VÇP	8	25	12.90%	3745
RED0340-0030	7+00.00	TR-5658	RED0340-0035	9+50.00	TR-5658	VCP	8	250	0.36%	3745
RED0340-0025	3+50.00	TR-5658	RED0340-0030	7+00.00	TR-5658	VCP	8	350	0.36%	3745
RED0340-0020	3+10.00	TR-5658	RED0340-0025	3+50.00	TR-5658	VCP	8	350	0.36%	3745
ORANGEVIEW RD										
SUN0315-3275	2+16.34	TR-4846	SUN0315-3280	3+81.51	TR-4846	VCP	8	165	0.60%	3649 / 3650
SUN0315-3270	7+74.10	TR-4846	SUN0315-3275	2+16.34	TR-4846	VCP	8	222	0.60%	3649
ORANGEWOOD LN										
RED0285-0015	2+82.00	S-125	RED0285-0020	3+65.00	S-125	VCP	8	360	0.40%	3845
ORVILLINA DR										
SUN0430-2055	5+15.42	AD-5A	SUN0430-2060	5+15.42	AD-5A	VCP	8	255	1.08%	3748
SUN0430-2035	10+45.22	AD5A	SUN0430-2055	5+15.42	AD-5A	VCP	8	260	1.08%	3748
OUTLOOK LN										
HAT0335-0060	2+65.51	TR-3883	HAT0335-0090	3+66.41	TR-3883	VCP	8	366	0.32%	3850 / 3750
OVERBROOK DR										
SUN0430-0340	5+90.21	TR-7723	SUN0430-0345	7+26.77	TR-7723	VCP	8	137	5.80%	3449 / 3450
SUN0430-0335	2+46.56	TR-7723	SUN0430-0340	5+90.21	TR-7723	VCP	8	344	8.00%	3449
SUN0430-0330	1+01.71	TR-7723	SUN0430-0335	2+46.56	TR-7723	VCP	8	145	4.24%	3449
OVERHILL DR										
HAT0000-0855	0+8.00	SSI-F	HAT0000-0885	UNK	SSI-H	VCP	4	25	10.00%	3552
HAT0000-0850	16+74.65	TR-5369	HAT0000-0855	0+8.00	SSI-F	VCP	8	135	9.60%	3552
HAT0000-0845	16+51.73	TR-5369	HAT0000-0850	16+74.65	TR-5369	VCP	8	22	9.60%	3552
HAT0000-0840	13+04.18	TR-5369	HAT0000-0845	16+51.73	TR-5369	VCP	8	344	15.72%	3552
HAT0000-0835	9+69.17	TR-5369	HAT0000-0840	13+04.18	TR-5369	VCP	8	335	15.00%	3552
HAT0000-0830	6+68.80	TR-3696	HAT0000-0835	9+69.17	TR-5369	VCP	8	299	6.78%	3552
HAT0000-0825	3+20.00	TR-5369	HAT0000-0830	6+68.80	TR-3696	VCP	8	349	4.00%	3552
HAT0000-0785	1+45.00	TR-5369	HAT0000-0825	3+20.00	TR-5369	VCP	8	320	2.28%	3552
HAT0000-0810	15+53.26	TR-5369	HAT0000-0815	16+33.26	TR-5369	ABS	6	78	3.00%	3552 / 3551
HAT0000-0805	14+18.26	TR-5369	HAT0000-0810	15+53.26	TR-5369	ABS	8	131	3.28%	3552
HAT0000-0800	10+75.00	TR-5369	HAT0000-0805	14+18.26	TR-5369	ABS	8	339	9.24%	3552
HAT0000-0795	7+00.00	TR-5369	HAT0000-0800	10+75.00	TR-5369	ABS	8	371	12.00%	3552
HAT0000-0790	3+50.00	TR-5369	HAT0000-0795	7+00.00	TR-5369	ABS	8	346	8.00%	3552

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
HAT0000-0785	1+45.00	TR-5369	HAT0000-0790	3+50.00	TR-5369	ABS	8	201	9.00%	3552
HAT0000-0780	3+84.75	7-14-9	HAT0000-0785	1+45.00	TR-5369	VCP	8	153	5.55%	3552
HAT0000-0595	25+74.39	TR-3914	HAT0000-0600	27+15.39	TR-3914	VCP	8	141	7.06%	3551
HAT0000-0590	24+56.96	TR-3914	HAT0000-0595	25+74.39	TR-3914	VCP	8	117	4.34%	3551
HAT0000-0585	22+00.21	TR-3914	HAT0000-0590	24+56.96	TR-3914	VCP	8	257	11.70%	3551
HAT0000-0580	20+67.21	TR-3914	HAT0000-0585	22+00.21	TR-3914	VCP	8	133	6.60%	3551
HAT0000-0575	19+46.16	TR-3914	HAT0000-0580	20+67.21	TR-3914	VCP	8	121	5.67%	3551
HAT0000-0570	18+57.98	TR-3914	HAT0000-0575	19+46.16	TR-3914	VCP	8	88	5.24%	3551
HAT0000-0565	18+19.40	TR-4921	HAT0000-0570	18+57.98	TR-3914	VCP	8	88	0.80%	3551
OVERVIEW CIR										
HAT0000-0805	14+18.26	TR-5369	HAT0000-0820	2+16.31	TR-5369	ABS	8	212	5.20%	3552
OXBRIDGE CIR										
SUN0430-0525	18+03.10	TR-9606	SUN0430-0600	3+25.00	TR-9606	VCP	8	225	1.88%	3351
OXFORD AV										
HAT0120-0080	2+58.00	RS-539	HAT0120-0085	5+14.50	RS-539	VCP	8	252	0.32%	4146
HAT0120-0020	0+08.00	RS-539	HAT0120-0080	2+58.00	RS-539	VCP	8	246	0.32%	4146
PACIFIC ST										
RED0215-0515	9+00.02	S-108	RED0215-0520	11+84.02	S-108	VCP	8	284	0.80%	3844
RED0215-0510	6+00.02	S-108	RED0215-0515	9+00.02	S-108	VCP	8	300	0.80%	3944 / 3844
RED0215-0505	3+00.02	S-108	RED0215-0510	6+00.02	S-108	VCP	8	300	0.80%	3944
RED0215-0425	2+06.57	S-108	RED0215-0505	3+00.02	S-108	VCP	8	262	0.90%	3944
RED0215-0410	3+80.35	7-3A-4A	RED0215-0415	7+49.20	7-3A-4A	VCP	8	369	0.20%	3945
RED0215-0405	9+55.35	S-129	RED0215-0410	3+80.35	7-3A-4A	VCP	8	366	0.40%	3945
RED0215-0115	2+15.00	RS-282	RED0215-0180	2+20.00	RS-283	VCP	8	225	1.00%	3845
RED0115-0170	3+31.00	TR-4520	RED0115-0175	6+62.00	TR-4250	VCP	8	331	0.40%	4044
RED0115-0150	2+82.01	TR-4250	RED0115-0170	3+31.00	TR-4520	VCP	8	327	0.40%	4044
PADDOCK LN										
HAT0000-0345	3+67.19	TR-6206	HAT0000-0410	2+20.00	TR-6206	VCP	8	220	2.90%	3650 / 3651
HAT0000-0345	3+67.19	TR-6206	HAT0000-0380	2+35.00	TR-6206	VCP	8	235	0.50%	3650
PAINTED PONY LN										
SUN0430-1475	0+04.00	SSI-E	SUN0430-1485	1+60.76	SSI-E	VCP	8	160	4.04%	3549
PALACE WY										
RED0390-0665	3+14.39	RS-393	RED0390-0680	0+10.00	RS-393	VCP	8	328	0.40%	3645
RED0390-0580	0+05.00	RS-990	RED0390-0660	1+26.50	RS-990	VCP	8	122	0.60%	3645
PALOMAR WY		,								
RED0485-0025	90+52.00	4-17	RED0485-0095	4+78.48	AD-3A	VCP	8	478	0.40%	3446
RED0445-0045	7+00.00	AD3B	RED0445-0050	11+43.00	AD3B	VCP	8	443	0.60%	3546
RED0445-0040	3+50.00	AD3B	RED0445-0045	7+00.00	AD3B	VCP	8	350	0.60%	3546
RED0445-0030	15+77.66	AD3B	RED0445-0040	3+50.00	AD3B	VCP	8	350	1.20%	3546
PANORAMA PL										
SUN0480-1230	4+82.00	AD-1	SUN0480-1235	4+07.00	AD-1	VCP	8	407	UNK	3448
SUN0480-1120	13+71.00	AD-1	SUN0480-1230	4+82.00	AD-1	VCP	8	390	7.08%	3448
SUN0430-1875	2+01.50	AD-1	SUN0430-1880	4+65.50	AD-1	VCP	8	264	5.40%	3448

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
PANORAMA VIEW DR										
RED0625-0285	4+02.92	AD-1	RED0625-0290	7+75.00	AD-1	VCP	8	372	0.32%	3448
RED0625-0280	0+82.00	AD-1	RED0625-0285	4+02.92	AD-1	VCP	8	321	0.32%	3448
RED0625-0275	5+14.00	AD-1	RED0625-0280	0+82.00	AD-1	VCP	8	82	12.89%	3448
PARK SKYLINE RD										
HAT0375-0020	9+26.65	SSI-E	HAT0375-0040	9+92.78	SSI-E	VCP	8	66	8.00%	3750
HAT0375-0030	3+82.57	SSI-E	HAT0375-0035	5+97.18	SSI-E	VCP	8	215	10.00%	3750
HAT0375-0015	7+33.86	SSI-E	HAT0375-0020	9+26.65	SSI-E	VCP	8	193	8.00%	3750
HAT0375-0010	3+90.72	SSI-E	HAT0375-0015	7+33.86	SSI-E	VCP	8	343	3.00%	3750
HAT0375-0005	1+06.03	SSI-E	HAT0375-0010	3+90.72	SSI-E	VCP	8	285	0.80%	3750
HAT0375-0000	2+21.42	SSI-E	HAT0375-0005	1+06.03	SSI-E	VCP	8	106	0.40%	3750
PARKER				•						
RED0320-0135	8+50.24	RS-299	RED0320-0160	1+30.00	RS-300	VCP	8	125	0.40%	3745
RED0320-0150	1+71.00	RS-299	RED0320-0155	1+25.00	RS-300	VCP	8	130	0.40%	3744
PARKER DR										
RED0320-0150	1+71.00	RS-299	RED0320-0152	0+85.00	RS-299	VCP	8	86	0.40%	3744
RED0320-0145	4+58.00	RS-299	RED0320-0150	1+71.00	RS-299	VCP	8	287	0.40%	3745 / 3744
RED0320-0140	5+70.00	RS-299	RED0320-0145	4+58.00	RS-299	VCP	8	112	0.40%	3745
RED0320-0135	8+50.24	RS-299	RED0320-0140	5+70.00	RS-299	VCP	8	280	0.40%	3745
RED0320-0050	8+29.88	RS-299	RED0320-0135	8+50.24	RS-299	VCP	8	268	0.40%	3745
PARKVIEW TER										
SUN0480-1420	0+00.00	TR-3444	SUN0480-1425	2+46.76	TR-3444	VCP	8	246	0.81%	3448
PARKWAY LP					_					
RED0105-0030	4+76.25	X-39	RED0105-0070	0+32.00	X-39	VCP	8	32	4.40%	4245
RED0105-0045	10+95.72	X-35	RED0105-0050	12+10.56	X-35	VCP	8	115	0.40%	4245
RED0105-0040	9+16.91	X-39	RED0105-0045	10+95.72	X-35	VCP	8	179	0.40%	4245
RED0105-0035	6+36.91	X-35	RED0105-0040	9+16.91	X-39	VCP	8	276	0.40%	4245
RED0105-0030	4+76.25	X-39	RED0105-0035	6+36.91	X-35	VCP	10	161	0.32%	4245
RED0105-0025	2+83.62	X-35	RED0105-0030	4+76.25	X-39	VCP	10	193	0.68%	4245
RED0105-0025	2+83.62	X-35	RED0105-0027	1+03.75	X-35	VCP	6	103	1.00%	4245
* RED0105-0000	175+49.00	7-2	RED0105-0025	2+83.62	X-35	VCP	10	280	0.32%	4245
PASADENA AV					,, 66				0.02,0	
RED0215-0495	6+12.70	S-104	RED0215-0500	7+92.70	S-104	VCP	8	180	0.84%	3944 / 3844
RED0215-0490	3+48.00	S-104	RED0215-0495	6+12.70	S-104	VCP	8	265	0.84%	3944
RED0215-0485	10+31.48	S-104	RED0215-0490	3+48.00	S-104	VCP	8	311	0.84%	3944
RED0145-0110	0+04.00	RS-484	RED0145-0115	0+05.00	RS-594	VCP	8	171	0.32%	3944
RED0145-0105	8+41.00	S-566	RED0145-0110	0+04.00	RS-484	VCP	8	45	0.32%	3944
RED0145-0100	5+98.00	S-566	RED0145-0105	8+41.00	S-566	VCP	8	243	0.59%	3944
RED0145-0095	2+83.00	TR-5008	RED0145-0100	5+98.00	S-566	VCP	8	182	1.07%	3944
RED0145-0090	3+48.00	S-566	RED0145-0095	2+83.00	TR-5008	VCP	8	68	1.07%	3944
RED0145-0085	0+00.00	S-566	RED0145-0090	3+48.00	S-566	VCP	8	348	1.07%	4044 / 3944
RED0145-0089	1+31.02	RS-220	RED0145-0085	0+00.00	S-566	VCP	8	141	0.48%	4044
RED0145-0080	4+01.59	S-531	RED0145-0080	1+31.02	RS-220	VCP	8	264	0.40%	4044
NEDU143-00/3	4TU1.33	2-221	UFD0142-0000	1731.02	1/3-220	I VCF	O	4U 4	0.40/0	1 4044

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
RED0145-0070	7+02.80	S-531	RED0145-0075	4+01.59	S-531	VCP	8	301	0.40%	4044
RED0145-0065	0+00.00	S-531	RED0145-0070	7+02.80	S-531	VCP	8	125	0.40%	4044
RED0115-0220	13+61.00	S-480	RED0115-0225	16+95.00	S-480	VCP	8	334	0.48%	4044
RED0115-0215	0+00.00	S-480	RED0115-0220	13+61.00	S-480	VCP	8	335	0.48%	4044
VILLION DR										
HAT0335-0030	11+06.00	TR-3883	HAT0335-0055	11+73.22	TR-3883	VCP	8	67	0.78%	3850
HAT0000-0030	3+51.38	TR-3883	HAT0000-0035	6+25.12	TR-3883	VCP	8	274	3.16%	3850
HAT0000-0005	4+57.52	TR-3883	HAT0000-0030	3+51.38	TR-3883	VCP	8	351	6.00%	3850
HAT0000-0020	5+05.05	TR-3883	HAT0000-0025	8+17.80	TR-3883	VCP	8	313	9.92%	3850
HAT0000-0015	2+34.05	TR-3883	HAT0000-0020	5+05.05	TR-3883	VCP	8	271	0.95%	3850
HAT0000-0010	1+82.05	TR-3883	HAT0000-0015	2+34.05	TR-3883	VCP	8	52	0.95%	3850
HAT0000-0006	4+57.52	7-14-1-2	HAT0000-0010	1+82.05	TR-3883	VCP	8	160	1.37%	3850
HAT0000-0006	4+57.52	7-14-1-2	HAT0000-0005	4+57.52	TR-3883	VCP	8	24	1.37%	3850
ACOCK HILL DR										
SUN0315-2695	7+20.19	TR-6507	SUN0315-2700	0+99.06	TR-6507	VCP	8	99	3.00%	3550
SUN0315-2665	2+50.00	TR-6507	SUN0315-2670	5+12.23	TR-6507	VCP	8	262	0.40%	3550
SUN0315-2660	2+25.33	TR-6507	SUN0315-2665	2+50.00	TR-6507	VCP	8	250	0.40%	3550
ARL AV										
RED0620-0065	6+00.00	AD-6	RED0620-0070	UNK	AD-6	VCP	8	160	0.40%	3248
RED0620-0060	3+10.00	AD-6	RED0620-0065	6+00.00	AD-6	VCP	8	290	0.32%	3248
RED0620-0005	0+00.00	AD-6	RED0620-0060	3+10.00	AD-6	VCP	8	310	0.32%	3248
RED0605-0005	3+13.56	AD-6	RED0605-0040	3+86.00	AD-6	VCP	8	386	1.30%	3247
RED0585-0060	3+06.60	AD-6	RED0585-0100	4+45.00	AD-6	VCP	8	445	1.72%	3247
RED0585-0010	3+61.65	AD-6	RED0585-0045	4+20.00	AD-6	VCP	8	420	1.56%	3247
MBROKE DR										
SUN0315-3770	3+14.54	TR-6362	SUN0315-3775	4+59.19	TR-6362	VCP	8	145	1.52%	3549 / 3550
SUN0315-3765	1+60.59	TR-6362	SUN0315-3770	3+14.54	TR-6362	VCP	8	315	9.56%	3549
NNINGTON AV										
HAT0090-0220	2+61.00	S-539	HAT0090-0285	1+29.00	RS-496	VCP	8	129	2.84%	4246
HAT0090-0225	1+28.40	S-539	HAT0090-0280	3+85.80	S-539	VCP	8	257	0.40%	4246
HAT0090-0220	2+61.00	S-539	HAT0090-0225	1+28.40	S-539	VCP	8	128	0.40%	4246
NRITH LN										
RED0145-0255	4+12.00	TR-6490	RED0145-0260	4+41.00	TR-6490	VCP	8	99	0.40%	4045
RED0145-0225	2+84.00	TR-6490	RED0145-0255	4+12.00	TR-6490	VCP	8	342	0.40%	4145 / 4045
RIWINKLE DR										
RED0625-0245	0+00.00	AD-1	RED0625-0255	3+90.50	AD-1	VCP	8	391	18.00%	3449
ICIAN WY										
SUN0315-2375	1+31.18	TR-3634	SUN0315-2395	2+67.40	TR-3634	VCP	8	266	2.48%	3649
SUN0315-2295	5+50.94	7-3A-4A	SUN0315-2305	2+89.12	TR-3596	VCP	8	291	0.20%	3648 / 3649
NE CANYON RD										
SUN0430-0320	4+66.75	TR-10302	SUN0430-0325	6+49.91	TR-10302	VCP	8	179	9.82%	3449
IEBROOK CIR										

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
HAT0170-0005	1+84.50	S-642	HAT0170-0025	2+62.00	RS-992	VCP	8	247	1.40%	4147
PINEBROOK DR										
HAT0130-0005	1+73.10	TR-6633	HAT0130-0010	5+37.40	TR-6633	VCP	8	362	0.40%	4146
HAT0130-0000	32+39.77	TR-6633	HAT0130-0005	1+73.10	TR-6633	VCP	8	173	0.40%	4146
PINTO LN										
SUN0480-1040	18+42.19	TR-12489	SUN0480-1045	22+28.00	TR-12489	VCP	8	392	1.20%	3548
SUN0480-1035	15+22.19	TR-12489	SUN0480-1040	18+42.19	TR-12489	VCP	8	316	1.60%	3547 / 3548
PLANTERO DR										
HAT0405-0000	20+89.71	TR-9615	HAT0410-0000	0+95.00	TR-9688	VCP	8	93	9.80%	3750
HAT0400-0000	18+74.00	TR-9615	HAT0405-0000	20+89.71	TR-9615	VCP	8	216	8.20%	3750
HAT0395-0000	17+39.65	TR-9615	HAT0400-0000	18+74.00	TR-9615	VCP	8	134	8.20%	3750
HAT0390-0000	15+08.62	TR-9615	HAT0395-0000	17+39.65	TR-9615	VCP	8	227	7.20%	3750
HAT0385-0000	12+43.70	TR-9615	HAT0390-0000	15+08.62	TR-9615	VCP	8	261	4.80%	3750
HAT0380-0000	4+48.76	SSI-F	HAT0385-0000	12+43.70	TR-9615	VCP	8	269	5.08%	3750
PLAZA DR										
SUN0400-0080	6+26.26	RS-897	SUN0400-0085	8+95.00	RS-897	VCP	8	264	0.90%	3846
SUN0400-0075	3+78.29	RS-897	SUN0400-0080	6+26.26	RS-897	VCP	8	251	0.90%	3846
SUN0400-0070	2+24.80	RS-897	SUN0400-0075	3+78.29	RS-897	VCP	8	155	0.90%	3846
SUN0400-0065	0+60.00	RS-897	SUN0400-0070	2+24.80	RS-897	VCP	8	161	0.80%	3846
SUN0400-0060	3+43.00	AD-2	SUN0400-0065	0+60.00	RS-897	VCP	8	103	0.50%	3846
PLAZA WY										
SUN0415-0025	23+81.17	7-39	SUN0415-0260	1+83.60	X-41	VCP	8	184	4.36%	3846
PREBLE DR										
RED0267-0015	6+82.00	S-131	RED0267-0020	0+00.00	RS-149	VCP	8	207	0.32%	3946 / 3846
RED0267-0010	4+98.64	S-131	RED0267-0015	6+82.00	S-131	VCP	8	323	0.32%	3946
PRIVATE DR										
SUN0430-0255	1+18.00	TR-7723	SUN0430-0260	3+80.00	TR-7723	VCP	8	262	6.68%	3450
SUN0430-0250	11+00.00	TR-7723	SUN0430-0255	1+18.00	TR-7723	VCP	8	118	4.24%	3449 / 3450
PRIVATE DRIVE										,
RED0625-0155	8+11.03	AD-1	RED0625-0160	9+61.03	AD-1	VCP	8	150	0.96%	3449
PRIVATE DRIVEWAY										
SUN0315-3465	10+37.08	AD-5A	SUN0315-3470	13+70.64	AD-5A	VCP	8	308	8.40%	3849
SUN0315-3460	8+86.38	AD-5A	SUN0315-3465	10+37.08	AD-5A	VCP	8	150	10.98%	3849
PROSPECT AV										
RED0420-0180	7+21.50	SSI-D	RED0420-0185	13+19.00	SSI-D	VCP	8	294	1.08%	3546
RED0420-0175	7+21.50	SSI-D	RED0420-0180	7+21.50	SSI-D	VCP	8	304	1.08%	3646 / 3546
RED0420-0170	4+37.00	SSI-D	RED0420-0175	7+21.50	SSI-D	VCP	8	285	1.08%	3646
RED0420-0165	1+32.00	SSI-D	RED0420-0170	4+37.00	SSI-D	VCP	8	305	1.08%	3646
RED0420-0160	0+50.00	TR-7846	RED0420-0165	1+32.00	SSI-D	VCP	8	312	1.04%	3646
* RED0385-0000	103+54.31	7-41	RED0385-0005	115+80.00	7-4-1	VCP	8	10	17.00%	3745
* RED0325-0000	78+93.27	7-41	RED0325-0005	91+20.00	TR-7420	VCP	8	25	9.20%	3745
PROSPECT PARK N	,			, <u> </u>			_			
RED0295-0005	2+72.00	RS-383	RED0295-0010	5+44.00	RS-383	VCP	8	272	0.40%	3845 / 3846
1120233 0003	2.72.00	.15 505	1.120233 0010	3.44.00	1.5 505	1	J	<i>-, -</i>	J. 10/0	1 3043 / 3040

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
* RED0295-0000	63+67.99	7-41	RED0295-0005	2+72.00	RS-383	VCP	8	259	0.40%	3845
QUADRILLE PL										
SUN0430-1110	2+05.38	TR-5840	SUN0430-1115	4+51.68	TR-5840	VCP	8	246	0.84%	3551
SUN0430-1105	2+02.77	TR-5840	SUN0430-1110	2+05.38	TR-5840	VCP	8	205	9.36%	3551
QUENT DR										
HAT0145-0045	10+48.30	AD-6	HAT0145-0050	2+10.00	TR-3935	VCP	8	201	0.40%	4046
RACQUET HILL										
HAT0380-0000	4+48.76	SSI-F	HAT0380-0005	3+67.53	TR-8640	VCP	8	368	0.40%	3750
HAT0000-0065	7+46.95	TR-8640	HAT0000-0070	10+32.07	TR-8640	VCP	8	281	9.80%	3750
HAT0000-0060	6+39.93	TR-8640	HAT0000-0065	7+46.95	TR-8640	VCP	8	110	8.36%	3750
HAT0000-0055	5+56.10	TR-8640	HAT0000-0060	6+39.93	TR-8640	VCP	8	80	4.72%	3750
HAT0000-0050	3+87.93	TR-8640	HAT0000-0055	5+56.10	TR-8640	VCP	8	164	3.24%	3750
HAT0000-0045	2+07.93	TR-8640	HAT0000-0050	3+87.93	TR-8640	VCP	8	176	2.24%	3750
HAT0000-0040	0+34.27	TR-8640	HAT0000-0045	2+07.93	TR-8640	VCP	8	170	1.36%	3850 / 3750
RAINBOW DR										
SUN0315-1550	2+83.68	AD-4	SUN0315-1565	1+08.00	AD-4	VCP	8	108	0.40%	3848
SUN0315-1555	1+86.33	AD-4	SUN0315-1560	3+82.33	AD-4	VCP	8	196	0.80%	3848
SUN0315-1550	2+83.68	AD-4	SUN0315-1555	1+86.33	AD-4	VCP	8	186	0.80%	3848
SUN0315-1545	1+06.00	AD-4	SUN0315-1550	2+83.68	AD-4	VCP	8	178	0.40%	3848
SUN0315-1540	10+60.68	7-36	SUN0315-1545	1+06.00	AD-4	VCP	8	30	0.40%	3848
SUN0315-0125	87+94.65	7-36	SUN0315-1540	10+60.68	7-36	VCP	8	56	10.43%	3848
SUN0315-1385	9+75.79	TR-3951	SUN0315-1505	1+38.11	TR-3951	VCP	8	138	0.24%	3848
SUN0315-1495	2+43.97	TR-3951	SUN0315-1500	0+38.00	TR-3951	VCP	8	206	0.24%	3848
SUN0315-1385	9+75.79	TR-3951	SUN0315-1495	2+43.97	TR-3951	VCP	8	240	0.24%	3848
HAT0275-0000	119+84.78	7-5-1R	HAT0275-0005	2+93.11	AD-4	VCP	8	293	0.34%	3948
HAT0255-0340	12+05.71	AD-4	HAT0255-0350	0+83.00	AD-3A	VCP	8	83	0.40%	3949
HAT0255-0340	12+05.71	AD-4	HAT0255-0345	3+50.00	AD-4	VCP	8	350	0.32%	3949
HAT0255-0070	8+86.00	AD-2	HAT0255-0075	2+31.97	AD-4	VCP	8	232	0.40%	3948
HAT0255-0040	11+90.04	AD-4	HAT0255-0050	1+90.00	AD-4	VCP	8	190	0.40%	3948
HAT0255-0040	11+90.04	AD-4	HAT0255-0045	0+75.00	AD-4	VCP	8	75	1.60%	3948 / 3848
RAINIER DR										,
SUN0415-0150	38+69.02	7-3B	SUN0415-0565	3+88.00	TR-3041	VCP	8	388	0.40%	3547
RED0450-0010	2+99.00	TR-3870	RED0450-0015	0+20.00	TR-3870	VCP	8	279	0.24%	3545
RED0450-0005	5+78.00	TR-3870	RED0450-0010	2+99.00	TR-3870	VCP	8	279	0.24%	3546 / 3545
* RED0450-0000	151+20.95	7-41	RED0450-0005	5+78.00	TR-3870	VCP	8	268	0.24%	3546
RED0445-0030	15+77.66	AD3B	RED0445-0035	16+67.66	AD3B	VCP	8	90	0.60%	3546
RED0445-0025	13+00.80	AD3B	RED0445-0030	15+77.66	AD3B	VCP	8	277	0.60%	3546
RED0445-0020	9+95.80	AD3B	RED0445-0025	13+00.80	AD3B	VCP	8	305	1.80%	3546
RED0445-0015	7+04.80	AD3B	RED0445-0020	9+95.80	AD3B	VCP	8	291	0.40%	3546
RED0445-0010	4+37.00	AD3B	RED0445-0015	7+04.80	AD3B	VCP	8	263	0.40%	3546
RED0445-0005	1+70.00	AD3B	RED0445-0010	4+37.00	AD3B	VCP	8	267	0.40%	3546
* RED0445-0000	150+10.95	7-41	RED0445-0005	1+70.00	AD3B	VCP	8	170	1.00%	3546
RED0420-0260	0+00.00	AD-3A	RED0420-0350	1+20.00	AD-3A	VCP	8	120	1.00%	3545
1120420 0200	0.00.00	AD JA	NEDO-20 0330	1,20.00	ND JA	1 , ,	U	120	1.00/0	I 3373

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
RED0420-0260	0+00.00	AD-3A	RED0420-0265	1+32.00	AD-3A	VCP	8	132	0.40%	3545
RED0420-0235	11+63.30	AD-3A	RED0420-0240	1+30.00	AD-3A	VCP	8	130	1.60%	3545
RED0395-0115	11+94.56	AD-3A	RED0395-0140	1+20.00	AD-3A	VCP	8	120	1.60%	3545
RED0395-0120	1+92.82	AD-3A	RED0395-0135	3+52.82	AD-3A	VCP	8	160	0.80%	3545
RED0395-0115	11+94.56	AD-3A	RED0395-0120	1+92.82	AD-3A	VCP	8	193	0.80%	3545
ALEIGH PL										
RED0200-0005	2+70.50	S-145	RED0200-0010	5+35.00	S-145	VCP	8	265	0.40%	4045
* RED0200-0000	23+72.82	7-4-1	RED0200-0005	2+70.50	S-145	VCP	8	265	0.40%	4045
ANCH HILL							,			
HAT0000-0120	2+10.58	TR-8295	HAT0000-0125	5+69.53	TR-8295	VCP	8	359	12.08%	3750
HAT0000-0115	1+05.00	TR-8640	HAT0000-0120	2+10.58	TR-8295	VCP	8	110	12.10%	3750
HAT0000-0080	1+50.35	TR-8640	HAT0000-0115	1+05.00	TR-8640	VCP	8	101	9.00%	3750
ANCHO SANTIAGO BLVD										
RED0620-0025	326+17.96	7-4-2	RED0620-0035	329+44.96	7-4-2	VCP	10	328	0.36%	3248
RED0620-0020	324+25.20	7-4-2	RED0620-0025	326+17.96	7-4-2	VCP	10	193	0.36%	3248
RED0620-0015	321+85.00	7-4-2	RED0620-0020	324+25.20	7-4-2	VCP	10	240	0.36%	3248
RED0620-0010	319+19.50	7-4-2	RED0620-0015	321+85.00	7-4-2	VCP	10	266	0.36%	3248
* RED0620-0005	0+00.00	AD-6	RED0620-0010	319+19.50	7-4-2	VCP	10	129	0.36%	3248
ANCHVIEW DR										
HAT0255-0230	2+34.38	AD-4	HAT0255-0235	4+63.38	AD-4	VCP	8	229	1.20%	3849
HAT0255-0155	2+26.80	AD-4	HAT0255-0230	2+34.38	AD-4	VCP	8	234	1.20%	3849
ANCHWOOD RD										
HAT0290-0010	5+24.00	7-3D	HAT0290-0125	3+95.52	AD-3A	VCP	8	396	0.24%	3949
HAT0290-0035	16+39.70	AD-4	HAT0290-0040	0+00.00	AD-4	VCP	8	307	1.48%	3849
HAT0290-0030	13+40.81	AD-4	HAT0290-0035	16+39.70	AD-4	VCP	8	299	1.48%	3849
HAT0290-0025	10+30.61	AD-3A	HAT0290-0030	13+40.81	AD-4	VCP	8	310	1.20%	3849
HAT0290-0020	6+95.77	AD-2	HAT0290-0025	10+30.61	AD-3A	VCP	8	335	1.20%	3849
HAT0290-0015	2+90.00	AD-4	HAT0290-0020	6+95.77	AD-2	VCP	8	406	1.00%	3849
HAT0290-0010	5+24.00	7-3D	HAT0290-0015	2+90.00	AD-4	VCP	8	290	1.24%	3949 / 3849
HAT0255-0320	7+71.62	AD-4	HAT0255-0325	10+24.62	AD-3A	VCP	8	253	1.16%	3948 / 3949
HAT0255-0315	3+43.00	AD-4	HAT0255-0320	7+71.62	AD-4	VCP	8	429	1.16%	3948
HAT0255-0310	5+21.26	AD-4	HAT0255-0315	3+43.00	AD-4	VCP	8	343	1.44%	3948
HAT0240-0025	3+46.05	TR-6628	HAT0240-0030	4+92.72	TR-6628	VCP	8	147	0.40%	4048
HAT0240-0010	5+14.00	TR-6628	HAT0240-0025	3+46.05	TR-6628	VCP	8	346	0.32%	3948 / 4048
HAT0240-0015	3+25.85	TR-6628	HAT0240-0020	5+80.85	TR-6628	VCP	8	255	2.52%	3948
HAT0240-0010	5+14.00	TR-6628	HAT0240-0015	3+25.85	TR-6628	VCP	8	326	2.28%	3948
ANGEVIEW DR	0.20	0020	111102100023	3 23.03	5525			320	2.2070	33.0
SUN0430-1245	8+88.90	SSI-F	SUN0430-1250	9+88.25	SSI-F	VCP	8	93	2.75%	3451
SUN0430-1240	8+65.59	7-4B	SUN0430-1245	8+88.90	SSI-F	VCP	8	18	2.00%	3451
SUN0430-1235	7+25.73	7-4B	SUN0430-1240	8+65.59	7-4B	VCP	8	140	3.00%	3451
SUN0430-1230	5+67.41	7-4B	SUN0430-1235	7+25.73	7-4B	VCP	8	158	3.48%	3451
SUN0430-1225	3+44.11	7-4B	SUN0430-1230	5+67.41	7-4B 7-4B	VCP	8	223	2.92%	3451
AVENCREST RD	J 1 77.11	7.5	30110-130-1230	3107.71	, TU	V C1	<u> </u>	225	2.52/0	3-31

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0315-2235	7+15.00	TR-3696	SUN0315-2245	8+50.00	TR-3696	VCP	8	135	0.76%	3648
SUN0315-2230	3+58.00	TR-3696	SUN0315-2235	7+15.00	TR-3696	VCP	8	357	0.75%	3648
SUN0315-2225	2+24.00	TR-3696	SUN0315-2230	3+58.00	TR-3696	VCP	8	357	0.75%	3648
AVENSCROFT RD										
SUN0430-0645	5+57.71	TR-9606	SUN0430-0650	8+14.21	TR-9606	VCP	8	257	1.32%	3351
SUN0430-0640	2+57.21	TR-9606	SUN0430-0645	5+57.71	TR-9606	VCP	8	300	0.88%	3351
SUN0430-0615	4+49.44	TR-9606	SUN0430-0640	2+57.21	TR-9606	VCP	8	157	2.16%	3351
EBECCA LN										
SUN0315-1845	2+94.00	AD-5A	SUN0315-1865	3+47.00	AD-5A	VCP	8	347	1.52%	3748
SUN0315-1845	2+94.00	AD-5A	SUN0315-1850	3+35.00	AD-5A	VCP	8	335	0.40%	3748 / 3848
ED HILL AV										
SUN0315-3915	325+62.92	7-22	SUN0315-3920	331+85.00	7-22	VÇP	18	622	1.08%	3848 / 3748
SUN0315-3910	319+02.06	7-22	SUN0315-3915	325+62.92	7-22	VCP	18	661	1.00%	3848
SUN0315-0155	319+02.06	7-3E	SUN0315-3910	319+02.06	7-22	VCP	18	6	1.00%	3848
SUN0315-0195	10+70.59	AD-5A	SUN0315-3360	1+90.00	AD-5A	VCP	8	190	0.30%	3749
SUN0315-0135	94+00.03	7-36	SUN0315-1580	0+00.00	AD-4	VCP	8	7	18.50%	3848
SUN0315-0130	91+16.17	7-36	SUN0315-1570	307+23.56	7-3	VCP	8	7	12.80%	3848
SUN0315-0120	84+64.52	7-36	SUN0315-1510	300+72.17	7-3	VCP	8	7	9.23%	3848
* SUN0315-0075	49+58.32	7-36	SUN0315-0780	10+57.47	7-36	VCP	8	49	13.15%	3947
* SUN0315-0070	44+53.60	7-36	SUN0315-0635	10+55.65	7-36	VCP	8	49	8.85%	3947
SUN0315-0230	23+02.79	7-3C	SUN0315-0235	26+72.79	7-3C	VCP	8	370	12.00%	3749
SUN0315-0225	21+92.00	TR-4855	SUN0315-0230	23+02.79	7-3C	VCP	8	111	10.69%	3749
SUN0315-0220	21+62.79	7-3C	SUN0315-0225	21+92.00	TR-4855	VCP	8	29	10.69%	3749
SUN0315-0215	17+56.79	7-3C	SUN0315-0220	21+62.79	7-3C	VCP	8	406	3.08%	3749
SUN0315-0210	13+75.00	AD-5A	SUN0315-0215	17+56.79	7-3C	VCP	8	383	3.08%	3749
SUN0315-0205	13+50.00	7-3C	SUN0315-0210	13+75.00	AD-5A	VCP	8	25	3.08%	3749
SUN0315-0200	12+60.00	7-3C	SUN0315-0205	13+50.00	7-3C	VCP	8	90	1.56%	3749
SUN0315-0195	10+70.59	AD-5A	SUN0315-0200	12+60.00	7-3C	VCP	8	190	1.56%	3749
SUN0315-0190	10+70.00	AD-5A	SUN0315-0195	10+70.59	AD-5A	VCP	8	270	1.56%	3749
SUN0315-0185	4+00.00	TR-4855	SUN0315-0190	10+70.00	AD-5A	VCP	8	400	1.56%	3748 / 3749
SUN0315-0180	0+49.61	7-3C	SUN0315-0185	4+00.00	TR-4855	VCP	8	350	1.56%	3748
SUN0315-0175	331+90.00	7-3	SUN0315-0180	0+49.61	7-3C	VCP	8	50	1.56%	3748
SUN0315-3920	331+85.00	7-22	SUN0315-0175	331+90.00	7-3	VCP	18	7	10.14%	3748
SUN0315-0150	102+41.00	7-36	SUN0315-0155	319+02.06	7-3E	VCP	18	62	2.34%	3848
SUN0315-0145	97+70.17	7-36	SUN0315-0150	102+41.00	7-36	VCP	18	466	2.24%	3848
SUN0315-0140	94+69.57	7-36	SUN0315-0145	97+70.17	7-36	VCP	18	296	2.24%	3848
SUN0315-0135	94+00.03	7-36	SUN0315-0140	94+69.57	7-36	VCP	18	65	2.24%	3848
SUN0315-0130	91+16.17	7-36	SUN0315-0135	94+00.03	7-36	VCP	18	248	2.24%	3848
SUN0315-0125	87+94.65	7-36	SUN0315-0130	91+16.17	7-36	VCP	18	317	2.24%	3848
SUN0315-0120	84+64.52	7-36	SUN0315-0125	87+94.65	7-36	VCP	18	325	1.50%	3848
SUN0315-0115	81+17.81	7-36	SUN0315-0120	84+64.52	7-36	VCP	18	342	1.50%	3848
SUN0315-0110	75+93.66	7-36	SUN0315-0115	81+17.81	7-36	VCP	18	519	1.50%	3947 / 3848
SUN0315-0105	70+89.23	7-36	SUN0315-0110	75+93.66	7-36	VCP	21	498	0.41%	3947

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0315-0100	68+62.41	7-36	SUN0315-0105	70+89.23	7-36	VCP	21	221	0.41%	3947
SUN0315-0095	64+84.77	7-36	SUN0315-0100	68+62.41	7-36	VCP	21	372	0.41%	3947
SUN0315-0091	60+96.27	7-36	SUN0315-0095	64+84.77	7-36	VCP	27	389	0.33%	3947
SUN0315-0087	60+76.78	7-36	SUN0315-0091	60+96.27	7-36	VCP	27	32	0.38%	3947
SUN0315-0080	57+57.36	7-36	SUN0315-0087	60+76.78	7-36	VCP	27	319	0.36%	3947
* SUN0315-0075	49+58.32	7-36	SUN0315-0080	57+57.36	7-36	VCP	24	799	0.20%	3947
RED MILL CIR										
HAT0210-0000	83+59.81	RS-291	HAT0210-0005	2+22.00	RS-291	VCP	8	222	1.00%	4048
REN CIR										
HAT0150-0000	0+00.00	TR-5997	HAT0150-0005	2+10.00	TR-5997	VCP	8	210	2.76%	4147
RIDGEBORO PL										
HAT0090-0225	1+28.40	S-539	HAT0090-0230	3+37.06	S-541	VCP	8	337	0.98%	4246
RIDGECREST CIR										
RED0410-0005	1+95.00	TR-7924	RED0410-0015	0+50.00	TR-7924	VCP	8	50	1.00%	3646 / 3645
RED0410-0005	1+95.00	TR-7924	RED0410-0010	1+00.00	RS-841	VCP	8	240	1.50%	3646
RIDGEWAY DR										
SUN0430-0895	9+46.56	TR-1917	SUN0430-0898	10+09.56	TR-1917	VCP	6	63	1.00%	3450
SUN0430-0860	6+24.22	TR-1917	SUN0430-0895	9+46.56	TR-1917	VCP	6	323	16.80%	3450
SUN0430-0865	0+09.90	TR-8934	SUN0430-0870	1+98.90	TR-8934	VCP	8	189	6.30%	3450
SUN0430-0860	6+24.22	TR-1917	SUN0430-0865	0+09.90	TR-8934	VCP	8	10	29.30%	3450
SUN0430-0855	3+34.84	TR-1917	SUN0430-0860	6+24.22	TR-1917	VCP	6	289	13.48%	3450
SUN0430-0400	3+19.69	TR-1917	SUN0430-0855	3+34.84	TR-1917	VCP	6	324	15.28%	3450
RISA PL	3113.03	11(151)	30110430 0033	3134.04	TR 1317	VCI	U	JZT	13.2070	3430
SUN0315-3975	381+70.41	7-22	SUN0315-2540	4+69.38	AD-5A	VCP	8	469	0.64%	3649
SUN0315-2395	2+67.40	TR-3634	SUN0315-2400	4+47.44	TR-3634	VCP	8	180	1.61%	3649
RIVER FORD RD										
HAT0225-0015	1+70.65	RS-581	HAT0225-0020	5+07.20	RS-581	VCP	8	337	0.40%	3948 / 3947
HAT0225-0010	5+97.00	AD-4	HAT0225-0015	1+70.65	RS-581	VCP	8	171	0.32%	3948
HAT0225-0005	2+56.00	AD-4	HAT0225-0010	5+97.00	AD-4	VCP	8	341	0.32%	4048 / 3948
HAT0225-0000	91+58.38	7-2A	HAT0225-0005	2+56.00	AD-4	VCP	8	256	0.32%	4048
ROANE CIR	31/30.30	, Err	100225 0005	2.30.00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	76.		230	0.3270	10 10
SUN0480-0820	2+16.00	TR-12419	SUN0480-0825	4+33.49	TR-12419	VCP	8	213	0.52%	3548
SUN0480-0800	11+12.39	TR-12419	SUN0480-0820	2+16.00	TR-12419	VCP	8	212	0.98%	3648 / 3548
ROANOKE AV										
HAT0100-0030	12+20.04	RS-470	HAT0100-0035	15+20.04	RS-470	VCP	8	300	0.80%	4146
HAT0100-0025	9+19.96	RS-471	HAT0100-0030	12+20.04	RS-470	VCP	8	304	0.60%	4146
HAT0100-0020	7+20.01	RS-471	HAT0100-0025	9+19.96	RS-471	VCP	8	200	0.40%	4246 / 4146
HAT0090-0140	4+51.00	RS-435	HAT0090-0145	5+98.09	RS-435	VCP	8	147	0.40%	4146
HAT0090-0110	1+86.00	RS-435	HAT0090-0140	4+51.00	RS-435	VCP	8	265	0.40%	4146
HAT0090-0105	2+61.00	RS-435	HAT0090-0135	2+00.00	RS-435	VCP	8	200	0.40%	4146
HAT0090-0105	2+61.00	RS-435	HAT0090-0110	1+86.00	RS-435	VCP	8	186	0.40%	4146
ROCKHURST AV	2101.00	113-433	11/41/00/01/10	1.00.00	1.3-433	V CI	O .	100	U. 1 U/0	4140
SUN0430-0390	5+25.72	7-15	SUN0430-0900	2+95.68	7-15	VCP	8	292	8.00%	3450
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DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0430-0410	9+00.00	TR-1917	SUN0430-0415	13+25.16	TR-1917	VCP	8	426	0.50%	3450
SUN0430-0405	6+13.83	TR-1917	SUN0430-0410	9+00.00	TR-1917	VCP	8	286	4.40%	3450
SUN0430-0400	3+19.69	TR-1917	SUN0430-0405	6+13.83	TR-1917	VCP	8	293	1.00%	3450
SUN0430-0395	0+80.00	TR-1917	SUN0430-0400	3+19.69	TR-1917	VCP	8	243	6.58%	3450
SUN0430-0390	5+25.72	7-15	SUN0430-0395	0+80.00	TR-1917	VCP	8	179	0.40%	3450
ROCKINGHORSE LN										
SUN0430-1505	8+30.00	SSI-E	SUN0430-1510	2+12.30	SSI-E	VCP	8	72	2.40%	3549
ROCKY RD										
SUN0480-1285	2+86.00	AD-1	SUN0480-1310	2+53.80	AD-1	VCP	8	254	0.24%	3448 / 3548
SUN0480-1090	1+85.00	AD-1	SUN0480-1285	2+86.00	AD-1	VCP	8	286	2.86%	3448
ROLLINGSTONE LN										
HAT0230-0080	5+67.80	AD-3	HAT0230-0100	4+03.50	AD-4	VCP	8	404	0.80%	3948
HAT0230-0045	5+67.80	AD-4	HAT0230-0065	1+20.00	AD-4	VCP	8	120	0.40%	3948
ROLLO CIR										
SUN0315-2530	5+18.14	AD-5A	SUN0315-2535	7+13.14	AD-5A	VCP	8	195	0.40%	3649
ROMANZA PL										
SUN0415-0190	5+94.00	AD-5A	SUN0415-0245	4+00.00	AD-5A	VCP	8	400	1.60%	3846
ROMELLE AV										
RED0495-0020	5+02.47	AD-3A	RED0495-0030	3+69.00	AD-3A	VCP	8	369	0.40%	3446
RED0495-0020	5+02.47	AD-3A	RED0495-0025	4+20.00	AD-3A	VCP	8	420	0.40%	3446 / 3445
RED0485-0205	3+34.00	AD-3A	RED0485-0210	6+67.00	AD-3A	VCP	8	333	0.80%	3446
RED0485-0120	7+58.00	AD-3A	RED0485-0205	3+34.00	AD-3A	VCP	8	334	0.80%	3446
RONDEL PL										
RED0360-0015	3+66.86	TR-3798	RED0360-0160	0+00.00	TR-3798	VCP	8	144	0.24%	3745
RED0360-0015	3+66.86	TR-3798	RED0360-0155	3+49.41	TR-3798	VCP	8	205	0.24%	3745
ROSALIE PL										
HAT0145-0040	8+05.00	AD-6	HAT0145-0055	2+10.00	TR-3935	VCP	8	200	0.40%	4146 / 4046
ROSALIND DR							-			,
RED0395-0190	2+03.00	RS-153	RED0395-0195	4+03.00	RS-153	VCP	8	200	0.32%	3645
RED0395-0185	0+00.00	RS-153	RED0395-0190	2+03.00	RS-153	VCP	8	203	0.32%	3645
RED0395-0125	4+70.00	AD-3A	RED0395-0130	9+40.00	AD-3A	VCP	8	470	1.00%	3545
RED0395-0120	1+92.82	AD-3A	RED0395-0125	4+70.00	AD-3A	VCP	8	470	0.40%	3545
RED0390-0405	2+82.00	AD-3A	RED0390-0410	5+65.00	AD-3A	VCP	8	283	0.80%	3445
RED0390-0320	55+42.00	2-17	RED0390-0405	2+82.00	AD-3A	VCP	8	282	0.80%	3545 / 3445
ROSELEAF AV	33 / 12.00	2 17	11250330 0 103	2.02.00	715 371	76.		202	0.0070	331373113
RED0215-0130	15+54.75	TR-5725	RED0215-0175	2+30.00	TR-5725	VCP	8	205	0.40%	3844
RED0215-0120	1+05.00	RS-282	RED0215-0125	14+85.68	RS-308	VCP	8	130	0.40%	3844
RED0215-0115	2+15.00	RS-282	RED0215-0120	1+05.00	RS-282	VCP	8	110	2.00%	3845 / 3844
RED0215-0119	2+55.00	RS-281	RED0215-0120	2+15.00	RS-282	VCP	8	330	0.32%	3845
ROSEWOOD CIR	2133.00	113 201	11150213 0113	2113.00	113 202	VCI	J.	330	0.52/0	3073
RED0320-0080	1+73.01	RS-1470	RED0320-0120	2+49.56	R-1470	VCP	8	145	0.66%	3745
ROYAL OAK RD	11/3.01	113-1470	NLD0320-0120	2743.30	N-14/U	VCF	O .	140	0.00/0	3/43
HAT0080-0095	4+71.98	S-563	HAT0080-0100	3+00.00	RS-494	VCP	8	300	1.28%	4245
11A10000-0093	47/1.30	3-303	111410000-0100	3+00.00	NO-474	I ACL	0	300	1.2070	4243

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
HAT0080-0090	2+36.98	S-563	HAT0080-0095	4+71.98	S-563	VCP	8	235	0.40%	4246 / 4245
HAT0080-0000	3+25.00	S-536	HAT0080-0090	2+36.98	S-563	VCP	8	237	0.40%	4246
UNNING BRANCH WY										
HAT0230-0075	2+86.40	AD-4	HAT0230-0105	4+03.50	AD-3A	VCP	8	404	0.80%	3948
HAT0230-0040	2+86.40	AD-4	HAT0230-0070	1+20.00	AD-3A	VCP	8	120	0.40%	3948
USHMORE LN										
RED0420-0130	8+10.00	TR-4005	RED0420-0135	10+26.00	TR-4005	VCP	8	216	1.26%	3646
RED0420-0125	6+05.00	TR-4005	RED0420-0130	8+10.00	TR-4005	VCP	8	205	0.40%	3646
RED0420-0120	2+57.00	TR-4005	RED0420-0125	6+05.00	TR-4005	VCP	8	348	0.40%	3646
RED0420-0085	2+52.00	TR-4005	RED0420-0120	2+57.00	TR-4005	VCP	8	257	0.40%	3646
ADDLERY RD										
HAT0000-0335	0+00.00	TR-6206	HAT0000-0450	2+70.00	TR-6206	VCP	8	270	2.26%	3651
HAT0000-0330	0+00.00	TR-6206	HAT0000-0335	0+00.00	TR-6206	VCP	8	17	1.46%	3651
HAT0000-0325	2+08.70	TR-6206	HAT0000-0330	0+00.00	TR-6206	VCP	8	12	5.79%	3651
AIGON LN										
SUN0480-0752	5+14.61	AD-3B	SUN0480-0755	6+80.00	AD-3B	VCP	8	165	1.00%	3647
SUN0480-0750	3+50.00	AD-3B	SUN0480-0752	5+14.61	AD-3B	VCP	8	165	1.00%	3647
SUN0480-0595	5+38.16	7-3B	SUN0480-0750	3+50.00	AD-3B	VCP	8	350	2.00%	3647
AINT CHARLES WY										
SUN0430-0885	10+11.99	TR-8934	SUN0430-0890	11+80.92	TR-8934	VCP	8	169	8.12%	3450
AINT CLOUD LN										
SUN0430-0725	6+40.00	TR-9606	SUN0430-0740	2+56.00	TR-9606	VCP	8	156	0.40%	3450
SUN0430-0730	2+80.67	TR-9606	SUN0430-0735	6+39.49	TR-9606	VCP	8	359	5.40%	3450
SUN0430-0725	6+40.00	TR-9606	SUN0430-0730	2+80.67	TR-9606	VCP	8	279	1.04%	3450
AINT JOHN PL										
SUN0315-3595	5+95.63	TR-3731	SUN0315-3860	1+86.00	AD-5A	VCP	8	186	0.40%	3649
SUN0315-3835	6+52.05	TR-5068	SUN0315-3855	8+02.05	TR-5068	VCP	8	150	3.92%	3549
SUN0315-3830	5+33.64	TR-5068	SUN0315-3835	6+52.05	TR-5068	VCP	8	118	0.96%	3549
SUN0315-3825	2+67.64	TR-5068	SUN0315-3830	5+33.64	TR-5068	VCP	8	266	1.43%	3549
SUN0315-3600	1+90.20	TR-3731	SUN0315-3825	2+67.64	TR-5068	VCP	8	268	1.43%	3549
SUN0315-3595	5+95.63	TR-3731	SUN0315-3600	1+90.20	TR-3731	VCP	8	190	1.84%	3649 / 3549
AINT JUDE DR										
SUN0430-1730	6+32.81	AD-1	SUN0430-1735	8+46.02	AD-1	VCP	8	213	0.32%	3449
SUN0430-1725	3+12.00	AD-1	SUN0430-1730	6+32.81	AD-1	VCP	8	321	0.32%	3449
SUN0430-1675	6+85.36	AD-1	SUN0430-1725	3+12.00	AD-1	VCP	8	312	17.56%	3449
AINT MARKS DR										
SUN0430-1820	3+25.38	7-46	SUN0430-1825	5+47.44	7-46	VCP	8	222	0.60%	3548
SUN0430-1625	8+84.67	AD-1	SUN0430-1820	3+25.38	7-46	VCP	8	325	6.40%	3548
AINT MARYS CIR										
SUN0430-0585	3+86.62	TR-9606	SUN0430-0590	6+80.00	TR-9606	VCP	8	293	0.84%	3351
SUN0430-0535	22+39.20	TR-9606	SUN0430-0585	3+86.62	TR-9606	VCP	8	287	1.92%	3351
AINT MARYS DR							-			
SUN0430-1650	16+45.73	AD-1	SUN0430-1775	2+55.00	AD-1	VCP	8	255	6.60%	3549

SAINT MORITZ CIR RED0485-0160 SAINT REGIS PL SUN0430-1985 SUN0430-0110 SAINT THOMAS DR SUN0430-1765 SUN0430-1655 SUN0430-1740 SAINT VINCENT PL SUN0315-3845 SUN0315-3605 SUN0315-3605 SUN0315-3605 SALT AIR DR HAT0335-0125 HAT0335-0120	2+91.76 3+77.42 32+79.43 10+54.00 17+82.22 0+39.00 3+88.78 3+35.42 3+35.42 15+22.94	AD-3A TR-5991 7-3E TR-4796 AD-1 AD-1 TR-5068 TR-3731 TR-3731	RED0485-0170 SUN0430-1990 SUN0430-1985 SUN0430-1770 SUN0430-1750 SUN0430-1745 SUN0315-3850 SUN0315-3820 SUN0315-3815	1+40.00 6+82.11 3+77.42 12+91.00 3+20.00 3+20.36 1+60.00 3+16.00	AD-3A TR-5991 TR-5991 TR-4796 TR-4796 AD-1 TR-5068 AD-5A	VCP VCP VCP VCP VCP	8 8 8 8	140 305 377 237 320 281	0.40% 0.28% 0.28% 0.80% 0.32% 9.52%	3446 3648 3648 3548 / 3549 3549 3549
SAINT REGIS PL SUN0430-1985 SUN0430-0110 SAINT THOMAS DR SUN0430-1765 SUN0430-1655 SUN0430-1740 SAINT VINCENT PL SUN0315-3845 SUN0315-3605 SUN0315-3605 SALT AIR DR HAT0335-0125	3+77.42 32+79.43 10+54.00 17+82.22 0+39.00 3+88.78 3+35.42 3+35.42	TR-5991 7-3E TR-4796 AD-1 AD-1 TR-5068 TR-3731 TR-3731	SUN0430-1990 SUN0430-1985 SUN0430-1770 SUN0430-1750 SUN0430-1745 SUN0315-3850 SUN0315-3820	6+82.11 3+77.42 12+91.00 3+20.00 3+20.36 1+60.00 3+16.00	TR-5991 TR-5991 TR-4796 TR-4796 AD-1 TR-5068	VCP VCP VCP VCP	8 8 8 8	305 377 237 320 281	0.28% 0.28% 0.80% 0.32%	3648 3648 3548 / 3549 3549
SUN0430-1985 SUN0430-0110 SAINT THOMAS DR SUN0430-1765 SUN0430-1655 SUN0430-1740 SAINT VINCENT PL SUN0315-3845 SUN0315-3605 SUN0315-3605 SUN0315-3605	32+79.43 10+54.00 17+82.22 0+39.00 3+88.78 3+35.42 3+35.42 15+22.94	7-3E TR-4796 AD-1 AD-1 TR-5068 TR-3731 TR-3731	SUN0430-1985 SUN0430-1770 SUN0430-1750 SUN0430-1745 SUN0315-3850 SUN0315-3820	3+77.42 12+91.00 3+20.00 3+20.36 1+60.00 3+16.00	TR-5991 TR-4796 TR-4796 AD-1 TR-5068	VCP VCP VCP VCP	8 8 8 8	237 320 281	0.28% 0.80% 0.32%	3648 3548 / 3549 3549
SUN0430-0110 SAINT THOMAS DR SUN0430-1765 SUN0430-1655 SUN0430-1740 SAINT VINCENT PL SUN0315-3845 SUN0315-3605 SUN0315-3605 SUN0315-3605 SALT AIR DR HAT0335-0125	32+79.43 10+54.00 17+82.22 0+39.00 3+88.78 3+35.42 3+35.42 15+22.94	7-3E TR-4796 AD-1 AD-1 TR-5068 TR-3731 TR-3731	SUN0430-1985 SUN0430-1770 SUN0430-1750 SUN0430-1745 SUN0315-3850 SUN0315-3820	3+77.42 12+91.00 3+20.00 3+20.36 1+60.00 3+16.00	TR-5991 TR-4796 TR-4796 AD-1 TR-5068	VCP VCP VCP VCP	8 8 8 8	237 320 281	0.28% 0.80% 0.32%	3648 3548 / 3549 3549
SAINT THOMAS DR SUN0430-1765 SUN0430-1655 SUN0430-1740 SAINT VINCENT PL SUN0315-3845 SUN0315-3605 SUN0315-3605 SALT AIR DR HAT0335-0125	10+54.00 17+82.22 0+39.00 3+88.78 3+35.42 3+35.42	TR-4796 AD-1 AD-1 TR-5068 TR-3731 TR-3731	SUN0430-1770 SUN0430-1750 SUN0430-1745 SUN0315-3850 SUN0315-3820	12+91.00 3+20.00 3+20.36 1+60.00 3+16.00	TR-4796 TR-4796 AD-1 TR-5068	VCP VCP VCP	8 8 8	237 320 281	0.80% 0.32%	3548 / 3549 3549
SUN0430-1765 SUN0430-1655 SUN0430-1740 SAINT VINCENT PL SUN0315-3845 SUN0315-3605 SUN0315-3605 SUN0315-3605 SALT AIR DR HAT0335-0125	17+82.22 0+39.00 3+88.78 3+35.42 3+35.42 15+22.94	AD-1 AD-1 TR-5068 TR-3731 TR-3731	SUN0430-1750 SUN0430-1745 SUN0315-3850 SUN0315-3820	3+20.00 3+20.36 1+60.00 3+16.00	TR-4796 AD-1 TR-5068	VCP VCP	8 8	320 281	0.32%	3549
SUN0430-1655 SUN0430-1740 SAINT VINCENT PL SUN0315-3845 SUN0315-3605 SUN0315-3605 SALT AIR DR HAT0335-0125	17+82.22 0+39.00 3+88.78 3+35.42 3+35.42 15+22.94	AD-1 AD-1 TR-5068 TR-3731 TR-3731	SUN0430-1750 SUN0430-1745 SUN0315-3850 SUN0315-3820	3+20.00 3+20.36 1+60.00 3+16.00	TR-4796 AD-1 TR-5068	VCP VCP	8 8	320 281	0.32%	3549
SUN0430-1740 SAINT VINCENT PL SUN0315-3845 SUN0315-3605 SUN0315-3605 SALT AIR DR HAT0335-0125	0+39.00 3+88.78 3+35.42 3+35.42 15+22.94	AD-1 TR-5068 TR-3731 TR-3731	SUN0430-1745 SUN0315-3850 SUN0315-3820	3+20.36 1+60.00 3+16.00	AD-1 TR-5068	VCP	8	281		
SAINT VINCENT PL SUN0315-3845 SUN0315-3605 SUN0315-3605 SALT AIR DR HAT0335-0125	3+88.78 3+35.42 3+35.42 15+22.94	TR-5068 TR-3731 TR-3731	SUN0315-3850 SUN0315-3820	1+60.00 3+16.00	TR-5068				9.52%	3549
SUN0315-3845 SUN0315-3605 SUN0315-3605 SALT AIR DR HAT0335-0125	3+35.42 3+35.42 15+22.94	TR-3731 TR-3731	SUN0315-3820	3+16.00		VCP	8	160		
SUN0315-3605 SUN0315-3605 SALT AIR DR HAT0335-0125	3+35.42 3+35.42 15+22.94	TR-3731 TR-3731	SUN0315-3820	3+16.00		VCP	8	160		
SUN0315-3605 SALT AIR DR HAT0335-0125	3+35.42 15+22.94	TR-3731			ΔD-5Δ		_	160	1.76%	3549
<i>SALT AIR DR</i> HAT0335-0125	15+22.94		SUN0315-3815	2.02.70	70 37	VÇP	8	316	0.72%	3549
HAT0335-0125				3+03.78	AD-5A	VCP	8	304	2.24%	3549
HAT0335-0120		TR-3883	HAT0335-0130	17+52.35	TR-3883	VCP	8	229	0.32%	3850
	12+85.19	TR-3883	HAT0335-0125	15+22.94	TR-3883	VCP	8	238	0.32%	3850
HAT0335-0115	9+29.19	TR-3883	HAT0335-0120	12+85.19	TR-3883	VCP	8	356	0.32%	3850
HAT0335-0110	5+75.19	TR-3883	HAT0335-0115	9+29.19	TR-3883	VCP	8	354	0.32%	3850
HAT0335-0105	3+61.19	TR-3883	HAT0335-0110	5+75.19	TR-3883	VCP	8	214	0.32%	3850
HAT0335-0010	2+93.59	TR-3883	HAT0335-0105	3+61.19	TR-3883	VCP	8	361	0.32%	3850
SAN JUAN ST										
SUN0315-0530	13+12.66	TSI-2	SUN0315-0545	16+11.50	D-266J	VCP	8	295	0.40%	4046 / 3946
SUN0315-0525	8+94.00	TSI-2	SUN0315-0530	13+12.66	TSI-2	VCP	8	415	0.40%	4046
SUN0315-0485	8+62.00	TSI-2	SUN0315-0525	8+94.00	TSI-2	VCP	8	28	23.68%	4046
SUN0315-0500	0+00.00	SSI-F	SUN0315-0520	11+60.00	SSI-F	VCP	8	409	0.27%	4047
SUN0315-0505	0+20.00	SSI-F	SUN0315-0510	3+54.56	SSI-F	VCP	8	335	UNK	4047
SUN0315-0500	0+00.00	SSI-F	SUN0315-0505	0+20.00	SSI-F	VCP	8	20	0.32%	4047
SUN0315-0495	5+95.00	SSI-F	SUN0315-0500	0+00.00	SSI-F	VCP	8	154	0.39%	4047
SUN0315-0490	4+14.00	SSI-F	SUN0315-0495	5+95.00	SSI-F	VCP	8	181	0.30%	4047
SUN0315-0485	8+62.00	TSI-2	SUN0315-0490	4+14.00	SSI-F	VCP	8	215	0.43%	4046 / 4047
SUN0315-0480	10+30.27	7-36	SUN0315-0485	8+62.00	TSI-2	VCP	8	55	0.91%	4046
* SUN0315-0065	36+57.94	7-36	SUN0315-0480	10+30.27	7-36	VCP	8	30	0.67%	4046
SUN0315-0465	8+01.00	S-140	SUN0315-0470	3+56.04	TR-8760	VCP	8	366	0.38%	3946
SUN0315-0460	5+57.88	S-140	SUN0315-0465	8+01.00	S-140	VCP	8	243	0.38%	3946
SUN0315-0455	3+17.88	AD-4	SUN0315-0460	5+57.88	S-140	VCP	8	240	0.38%	4046 / 3946
SUN0315-0450	10+89.95	7-36	SUN0315-0455	3+17.88	AD-4	VCP	8	263	0.38%	4046
* SUN0315-0065	36+57.94	7-36	SUN0315-0450	10+89.95	7-36	VCP	8	90	9.06%	4046
SUN0315-0380	3+07.50	S-138	SUN0315-0385	6+79.00	S-138	VCP	8	372	0.60%	3946
SUN0315-0375	13+53.00	S-137	SUN0315-0380	3+07.50	S-138	VCP	8	303	0.60%	3946
HAT0190-0015	5+99.20	TR-5799	HAT0190-0020	8+99.20	TR-5799	VCP	8	300	0.40%	4047
HAT0190-0010	2+99.20	TR-5799	HAT0190-0015	5+99.20	TR-5799	VCP	8	300	0.40%	4047
HAT0190-0005	0+31.14	TR-5799	HAT0190-0010	2+99.20	TR-5799	VCP	8	268	0.40%	4047
HAT0190-0000	66+76.49	7-2A	HAT0190-0005	0+31.14	TR-5799	VCP	8	31	0.40%	4047

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SANDBROOK DR										
HAT0120-0045	2+91.78	TR-6484	HAT0120-0050	3+12.90	TR-6484	VCP	8	313	0.40%	4146
SANDERSTEAD RD										
SUN0415-0590	10+70.00	TR-3687	SUN0415-0595	14+20.00	TR-3687	VCP	8	350	0.80%	3646
SUN0415-0585	7+20.00	TR-3687	SUN0415-0590	10+70.00	TR-3687	VCP	8	350	0.80%	3646
SUN0415-0580	3+70.00	TR-3687	SUN0415-0585	7+20.00	TR-3687	VCP	8	350	0.80%	3646
SUN0415-0575	2+25.00	TR-3687	SUN0415-0580	3+70.00	TR-3687	VCP	8	145	0.44%	3646
SUN0415-0480	2+10.00	TR-3634	SUN0415-0575	2+25.00	TR-3687	VCP	8	225	0.44%	3646
SANDFIELD PL										
HAT0135-0005	2+02.00	TR-6633	HAT0135-0010	5+09.40	TR-6633	VCP	8	307	0.40%	4146 / 4147
HAT0135-0000	35+22.77	TR-6633	HAT0135-0005	2+02.00	TR-6633	VCP	8	202	1.28%	4146
SANDHURST PL										
SUN0500-0330	7+34.04	AD-4	SUN0500-0335	3+80.00	AD-3B	VCP	8	380	1.00%	3647
SUN0500-0145	11+56.16	AD3B	SUN0500-0150	13+90.16	AD3B	VCP	8	234	0.40%	3547
SUN0500-0140	10+68.29	AD3B	SUN0500-0145	11+56.16	AD3B	VCP	8	88	0.40%	3547
SUN0500-0135	8+13.29	AD3B	SUN0500-0140	10+68.29	AD3B	VCP	8	255	0.40%	3547
SUN0500-0130	6+10.11	AD3B	SUN0500-0135	8+13.29	AD3B	VCP	8	203	0.40%	3547
SUN0500-0125	2+78.09	AD3B	SUN0500-0130	6+10.11	AD3B	VCP	8	332	0.40%	3547
SUN0500-0120	2+61.40	AD-3B	SUN0500-0125	2+78.09	AD3B	VCP	8	278	2.20%	3547
SUN0500-0065	4+50.86	AD-3B	SUN0500-0070	7+41.81	AD-3B	VCP	8	291	1.00%	3547
SUN0500-0060	1+74.25	AD-4	SUN0500-0065	4+50.86	AD-3B	VCP	8	277	1.00%	3547
SUN0500-0015	8+43.74	7-3B	SUN0500-0060	1+74.25	AD-4	VCP	8	174	1.02%	3547
SUN0480-0390	11+32.78	AD-4	SUN0480-0395	14+72.78	AD-3B	VCP	8	340	1.60%	3647
SUN0480-0280	8+13.63	AD-4	SUN0480-0320	1+42.00	AD-3B	VCP	6	140	1.00%	3647
SANDWOOD LN							_			
SUN0315-3370	5+23.00	AD-5A	SUN0315-3385	2+15.00	AD-5A	VCP	8	215	0.40%	3749
SANDWOOD PL	5 25.00				7.0 3.1				31.375	07.10
HAT0120-0120	7+98.36	RS-604	HAT0120-0125	0+05.00	RS-604	VCP	8	383	0.40%	4146
SANTA CLARA AV	, , 50.50	110 00 1	10.10220 0220	0.00.00	1.0 00 1	. 0.		300	0.1070	12.0
SUN0415-0550	2+05.40	TR-4221	SUN0415-0560	2+41.70	TR-4221	VCP	8	36	0.24%	3547
SUN0415-0130	24+14.90	7-3B	SUN0415-0550	2+05.40	TR-4221	VCP	8	200	0.24%	3547
RED0435-0045	5+95.74	AD3B	RED0435-0150	7+55.74	AD3B	VCP	8	160	1.40%	3546
RED0435-0040	3+56.89	AD3B	RED0435-0045	5+95.74	AD3B	VCP	8	239	0.40%	3546
RED0435-0035	2+16.54	AD3B	RED0435-0040	3+56.89	AD3B	VCP	8	140	0.40%	3546
RED0435-0030	15+23.57	AD-3B	RED0435-0035	2+16.54	AD3B	VCP	8	217	0.40%	3546
RED0435-0036	10+86.47	7-4B	RED0435-0030	15+23.57	AD-3B	VCP	8	437	1.40%	3546
RED0435-0020	6+03.12	7-4B 7-4B	RED0435-0025	10+86.47	7-4B	VCP	8	483	0.38%	3546
RED0435-0020	4+44.35	7-4B 7-4B	RED0435-0020	6+03.12	7-4B 7-4B	VCP	8	159	0.32%	3546
RED0435-0013	2+94.27	7-4B 7-4B	RED0435-0020	4+44.35	7-4B 7-4B	VCP	8	159	0.32%	3546
RED0435-0010	1+53.82	7-4B 7-4B	RED0435-0015	2+94.27	7-4B 7-4B	VCP	8	140	0.32%	3546
* RED0435-0000	139+57.87	7-4b 7-41	RED0435-0010	1+53.82	7-4B 7-4B	VCP	8	140 154	0.32%	3546
RED0420-0210	9+45.58	7-4B	RED0420-0215	12+65.58	7-4B	VCP	8	320	0.32%	3545
RED0420-0205	6+75.00	TR-5214	RED0420-0210	9+45.58	7-4B	VCP	8	269	0.32%	3545

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
RED0420-0200	6+30.58	7-4B	RED0420-0205	6+75.00	TR-5214	VCP	8	45	0.32%	3545
RED0420-0195	4+60.00	7-4B	RED0420-0200	6+30.58	7-4B	VCP	8	171	0.32%	3545
RED0420-0190	3+20.58	7-4B	RED0420-0195	4+60.00	7-4B	VCP	8	139	0.32%	3546 / 3545
RED0420-0185	13+19.00	SSI-D	RED0420-0190	3+20.58	7-4B	VCP	8	302	0.32%	3546
RED0395-0095	0+00.00	AD-3A	RED0395-0160	1+66.00	AD-3A	VCP	8	166	2.40%	3545
RED0390-0650	0+75.01	TR-5743	RED0390-0655	1+21.28	TR-5743	VCP	8	116	1.20%	3545
RED0390-0415	3+62.58	AD-3A	RED0390-0420	7+26.50	AD-3A	VCP	8	364	0.60%	3545
* RED0390-0070	160+94.14	7-4-1	RED0390-0415	3+62.58	AD-3A	VCP	8	363	0.60%	3545
SANTA FE DR										
RED0095-0010	7+18.00	R-407	RED0095-0015	9+84.02	R-407	VCP	10	266	-0.24%	4244
RED0095-0005	3+68.00	R-407	RED0095-0010	7+18.00	R-407	VCP	10	350	-0.24%	4244
* RED0095-0000	169+24.00	7-2	RED0095-0005	3+68.00	R-407	VÇP	10	346	-0.80%	4244
SAUGUS AV										
SUN0480-0260	21+50.69	AD-3B	SUN0480-0265	24+40.69	AD-3B	VCP	8	290	0.60%	3647
SUN0480-0255	18+60.69	AD-4	SUN0480-0260	21+50.69	AD-3B	VCP	8	290	2.00%	3647
SUN0480-0250	14+98.36	AD-3B	SUN0480-0255	18+60.69	AD-4	VCP	8	362	1.19%	3647
SAYBROOK LN										
HAT0205-0085	1+66.00	RS-230	HAT0205-0090	3+45.10	RS-285	VCP	8	346	0.38%	4047 / 3947
SAYLOR TER										
RED0625-0345	1+60.00	TR-6022	RED0625-0350	3+20.00	TR-6022	VCP	8	158	6.00%	3349 / 3348
RED0625-0050	0+00.00	TR-6022	RED0625-0345	1+60.00	TR-6022	VCP	8	160	2.00%	3349
SCHERER PL										
RED0135-0125	8+95.32	TR-5028	RED0135-0130	3+30.71	TR-5028	VCP	8	331	0.40%	4145 / 4045
SCOTT										,
SUN0480-1030	12+82.19	TR-12489	SUN0480-1035	15+22.19	TR-12489	VCP	8	236	1.20%	3547
SUN0480-0945	12+52.97	TR-12489	SUN0480-1030	12+82.19	TR-12489	VCP	8	278	1.92%	3547
SECLUSION WY										
SUN0465-0060	0+81.53	TR-4658	SUN0465-0075	0+10.00	TR-4658	VCP	8	92	0.40%	3747
SUN0465-0030	3+90.37	TR-4325	SUN0465-0060	0+81.53	TR-4658	VCP	8	160	0.40%	3747
SHADEL DR										
RED0400-0065	1+74.26	TR-4511	RED0400-0100	2+50.33	TR-4511	VCP	8	255	0.64%	3646
RED0390-0755	2+40.12	RS-980C	RED0390-0770	1+83.00	RS-980D	VCP	8	179	1.85%	3645
SHADY CANYON RD										
HAT0000-0260	3+81.27	7-14-2	HAT0000-0265	4+86.53	7-14-2	VCP	8	105	1.40%	3651
HAT0000-0255	1+00.00	7-14-2	HAT0000-0260	3+81.27	7-14-2	VCP	8	154	9.99%	3651
SHADYBROOK DR										
HAT0135-0025	2+30.00	TR-6633	HAT0135-0030	4+65.00	TR-6633	VCP	8	235	0.40%	4147
HAT0135-0005	2+02.00	TR-6633	HAT0135-0025	2+30.00	TR-6633	VCP	8	236	1.48%	4146 / 4147
SHADYRIDGE DR										,
SUN0430-1160	9+26.93	TR-4990	SUN0430-1165	0+00.00	TR-4990	VCP	8	164	3.48%	3451
SUN0430-1155	8+25.82	TR-4990	SUN0430-1160	9+26.93	TR-4990	VCP	8	101	16.36%	3451
SUN0430-1150	5+33.16	TR-4990	SUN0430-1155	8+25.82	TR-4990	VCP	8	293	12.64%	3451
SUN0430-1145	4+30.95	TR-4990	SUN0430-1150	5+33.16	TR-4990	VCP	8	102	2.36%	3451
20140420-1143	T 1 30.33	111- 4 330	120140±20-TT20	3.33.10	111- 4 330	1 , , ,	U	102	2.30/0	1 2421

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0430-1140	1+81.22	TR-4990	SUN0430-1145	4+30.95	TR-4990	VCP	8	250	9.52%	3551 / 3451
SUN0430-1135	5+77.73	TR-5225	SUN0430-1140	1+81.22	TR-4990	VCP	8	181	15.00%	3551
SUN0430-1130	4+30.16	TR-5225	SUN0430-1135	5+77.73	TR-5225	VCP	8	148	11.83%	3551
SUN0430-1125	2+06.19	TR-5225	SUN0430-1130	4+30.16	TR-5225	VCP	8	224	6.66%	3551
SUN0430-0970	14+61.61	TR-5225	SUN0430-1125	2+06.19	TR-5225	VCP	8	206	1.95%	3550 / 3551
SHASTA WY										
RED0485-0180	2+13.02	AD-3A	RED0485-0185	4+38.00	AD-3A	VCP	8	438	1.20%	3446
RED0445-0080	2+50.00	AD3B	RED0445-0085	6+30.00	AD3B	VCP	8	380	0.80%	3546
RED0445-0015	7+04.80	AD3B	RED0445-0080	2+50.00	AD3B	VCP	8	250	0.40%	3546
RED0365-0015	5+86.60	AD-2	RED0365-0090	2+00.00	AD-2	VCP	8	200	1.40%	3746
SHELLY LN										
RED0625-0145	0+86.00	TR-6208	RED0625-0150	2+91.00	TR-6208	VÇP	8	205	3.24%	3449
RED0625-0140	2+74.74	TR-6208	RED0625-0145	0+86.00	TR-6208	VCP	8	86	3.24%	3449
SHELTERWOOD RD										
HAT0290-0125	3+95.52	AD-3A	HAT0290-0135	0+70.00	AD-4	VCP	8	70	0.24%	3949
HAT0290-0125	3+95.52	AD-3A	HAT0290-0130	3+10.00	AD-3A	VCP	8	310	2.40%	3949
SHEPARD WY										
SUN0430-1950	1+82.51	TR-5745	SUN0430-1975	2+47.87	TR-5745	VCP	8	248	1.00%	3548
SUN0430-1960	7+52.40	TR-5745	SUN0430-1965	10+00.78	TR-5745	VCP	8	248	3.60%	3549
SUN0430-1955	4+90.32	TR-5745	SUN0430-1960	7+52.40	TR-5745	VCP	8	262	3.00%	3549
SUN0430-1950	1+82.51	TR-5745	SUN0430-1955	4+90.32	TR-5745	VCP	8	308	3.00%	3548 / 3549
SHERBROOK DR										,
RED0330-0020	10+74.73	TR-6450	RED0330-0025	13+84.73	TR-6450	VCP	8	310	0.32%	3745
RED0330-0015	8+04.00	TR-6450	RED0330-0020	10+74.73	TR-6450	VCP	8	271	0.40%	3745
RED0330-0010	5+04.00	TR-6450	RED0330-0015	8+04.00	TR-6450	VCP	8	300	0.40%	3745
RED0330-0005	2+04.00	TR-6450	RED0330-0010	5+04.00	TR-6450	VCP	8	300	0.40%	3745
* RED0330-0000	80+61.00	7-41	RED0330-0005	2+04.00	TR-6450	VCP	8	172	1.00%	3745
* RED0330-0000	80+61.00	7-41	RED0330-0005	2+04.00	TR-6450	VCP	8	172	1.00%	3745
SHERRY LYNN DR							_			
RED0625-0240	4+33.00	AD-1	RED0625-0260	4+67.34	AD-1	VCP	8	467	14.00%	3449
SIERRA ALTA DR										
SUN0315-1640	3+16.00	AD-4	SUN0315-1645	6+26.00	AD-4	VCP	8	310	0.80%	3848
SUN0315-1635	10+54.41	7-36	SUN0315-1640	3+16.00	AD-4	VCP	8	246	0.40%	3848
SUN0315-0140	94+69.57	7-36	SUN0315-1635	10+54.41	7-36	VCP	8	50	15.49%	3848
SUN0315-1600	10+31.78	AD-4	SUN0315-1605	13+11.10	AD-4	VCP	8	279	0.80%	3848
SUN0315-1595	7+87.82	AD-4	SUN0315-1600	10+31.78	AD-4	VCP	8	244	1.40%	3848
SUN0315-1590	5+20.97	AD-4	SUN0315-1595	7+87.82	AD-4	VCP	8	267	0.40%	3848
SUN0315-1585	2+56.50	AD-4	SUN0315-1590	5+20.97	AD-4	VCP	8	264	0.40%	3848
SUN0315-1580	0+00.00	AD-4	SUN0315-1585	2+56.50	AD-4	VCP	8	257	0.40%	3848
HAT0255-0250	8+57.02	AD-4	HAT0255-0255	10+77.02	AD-4	VCP	8	220	0.60%	3848
HAT0255-0245	6+21.10	AD-4	HAT0255-0250	8+57.02	AD-4	VCP	8	236	1.40%	3848
HAT0255-0240	3+39.10	AD-4	HAT0255-0245	6+21.10	AD-4	VCP	8	282	1.80%	3848
HAT0255-0085	4+27.00	AD-4	HAT0255-0240	3+39.10	AD-4	VCP	8	339	0.64%	3848
117110233 0003	27.00	, LD T	1.11.11.02.00	3.33.10	, ND -T	1 '5'	J	333	J.J.70	J 30-10

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SIERRA MADRE DR										
RED0435-0235	4+89.00	AD3B	RED0435-0240	9+04.93	AD3B	VCP	8	416	0.60%	3546
RED0435-0230	0+75.00	AD3B	RED0435-0235	4+89.00	AD3B	VCP	8	414	0.60%	3546
RED0435-0010	2+94.27	7-4B	RED0435-0230	0+75.00	AD3B	VCP	8	75	2.50%	3546
SIERRA VISTA DR										
HAT0180-0010	5+05.36	AD-4	HAT0180-0015	6+35.36	AD-4	VCP	8	130	0.40%	4047
HAT0180-0005	2+50.00	AD-4	HAT0180-0010	5+05.36	AD-4	VCP	8	255	0.40%	4047
HAT0180-0000	57+35.67	7-2A	HAT0180-0005	2+50.00	AD-4	VCP	8	250	0.40%	4147 / 4047
SILVER BIRCH DR										,
SUN0315-0945	2+00.70	RS-237	SUN0315-1000	4+04.00	RS-238	VCP	8	400	0.32%	3947
SILVER MAPLE WY										
SUN0500-0070	7+41.81	AD-3B	SUN0500-0075	2+90.00	AD-4	VCP	8	290	1.80%	3547
SUN0500-0040	7+30.85	TR-3991	SUN0500-0045	1+78.21	TR-3991	VCP	8	178	0.60%	3547
SUN0480-0885	12+69.46	TR-5111	SUN0480-0890	14+93.71	TR-5111	VCP	8	224	0.32%	3548
SUN0480-0865	11+29.32	TR-5111	SUN0480-0885	12+69.46	TR-5111	VCP	8	138	0.32%	3548
SUN0480-0860	6+48.97	TR-5111	SUN0480-0865	11+29.32	TR-5111	VCP	8	128	0.32%	3548
SUN0480-0855	3+50.00	TR-5111	SUN0480-0860	6+48.97	TR-5111	VCP	8	299	0.32%	3547 / 3548
SUN0480-0850	10+42.46	7-39	SUN0480-0855	3+50.00	TR-5111	VCP	8	307	0.32%	3547
* SUN0480-0070	149+11.48	7-39	SUN0480-0850	10+42.46	7-39	VCP	8	38	2.37%	3547
SILVERBROOK DR	113 / 111 10	, 33	33 110 100 0000	20.12110	7 00				2.07,0	33 17
HAT0120-0035	1+67.00	TR-6484	HAT0120-0075	5+34.32	TR-6484	VCP	8	367	0.40%	4146
HAT0120-0030	0+00.00	TR-6484	HAT0120-0035	1+67.00	TR-6484	VCP	8	167	0.40%	4146
SIMON RANCH RD	0.00.00	111 0 10 1	11/10120 0033	1107100	111 0 10 1	V C.		107	0.1070	1110
HAT0335-0025	8+63.50	TR-3883	HAT0335-0030	11+06.00	TR-3883	VCP	8	237	6.30%	3850
HAT0335-0020	6+25.80	TR-3883	HAT0335-0025	8+63.50	TR-3883	VCP	8	239	7.06%	3850
HAT0335-0015	4+47.91	TR-3883	HAT0335-0020	6+25.80	TR-3883	VCP	8	178	8.72%	3850
HAT0335-0010	2+93.59	TR-3883	HAT0335-0015	4+47.91	TR-3883	VCP	8	154	7.40%	3850
HAT0335-0010	0+47.87	TR-3883	HAT0335-0010	2+93.59	TR-3883	VCP	8	253	4.47%	3849 / 3850
SINGING WOOD DR	0147.87	111-3003	TIA 10333-0010	2193.33	TN-3003	VCI	0	233	4.4770	3843 / 3830
HAT0325-0010	4+27.64	AD-4	HAT0325-0035	2+26.00	AD-3A	VCP	8	226	4.80%	3849
HAT0325-0010	2+98.47	AD-4	HAT0325-0025	2+29.00	TR-8084	VCP	8	229	0.40%	3849
HAT0325-0020	1+78.47	AD-4	HAT0325-0020	2+98.47	AD-4	VCP	8	120	0.40%	3849
HAT0325-0015	4+27.64	AD-4		1+78.47		VCP		178	0.40%	3849
HAT0275-0010			HAT0325-0015		AD-4	VCP	8			3849
	6+01.39	AD-3A	HAT0275-0050	10+96.39	AD-4		8	495 425	2.20%	
HAT0275-0040	1+76.52	AD-4	HAT0275-0045	6+01.39	AD-3A	VCP	8	425	2.20%	3948 / 3849
HAT0275-0010	2+03.50	AD-4	HAT0275-0040	1+76.52	AD-4	VCP	8	177	1.20%	3948
SINGING WOOD LN	2.20.00	TD 0004	UAT0225 0020	2.25.42	TD 0004	VCD	0	402	40.550/	2040
HAT0325-0025	2+29.00	TR-8084	HAT0325-0030	3+35.42	TR-8084	VCP	8	102	10.55%	3849
SIRRINE DR	2:05.24	CCLE	VIATO000 0070	E : 02 00	CCLE	1/00	0	247	F 270/	2552
HAT0000-0865	3+65.31	SSI-F	HAT0000-0870	5+82.00	SSI-F	VCP	8	217	5.27%	3552
HAT0000-0860	1+00.00	SSI-F	HAT0000-0865	3+65.31	SSI-F	VCP	8	265	14.28%	3552
HAT0000-0855	0+8.00	SSI-F	HAT0000-0860	1+00.00	SSI-F	VCP	8	108	3.28%	3552
HAT0000-0650	7+88.21	TR-1968	HAT0000-0655	4+91.59	TR-1968	VCP	8	304	8.19%	3451

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
HAT0000-0645	10+73.21	TR-1968	HAT0000-0650	7+88.21	TR-1968	VCP	8	285	6.35%	3452 / 3453
HAT0000-0640	19+00.69	SSI-F	HAT0000-0645	10+73.21	TR-1968	VCP	8	44	6.20%	3452
HAT0000-0635	15+03.41	SSI-F	HAT0000-0640	19+00.69	SSI-F	VCP	8	349	6.12%	3452
HAT0000-0630	12+01.61	SSI-F	HAT0000-0635	15+03.41	SSI-F	VCP	8	302	4.00%	3452
HAT0000-0625	4+19.42	SSI-F	HAT0000-0630	12+01.61	SSI-F	VCP	8	278	4.80%	3452
LN										
SUN0315-3495	13+61.00	AD-5A	SUN0315-3500	14+84.47	7-3B	VCP	8	124	8.00%	3749
SUN0315-3490	9+25.00	AD-5A	SUN0315-3495	13+61.00	AD-5A	VCP	8	436	5.54%	3749
SUN0315-3485	5+09.27	AD-5A	SUN0315-3490	9+25.00	AD-5A	VCP	8	416	1.62%	3749
SUN0315-3480	3+89.27	AD-5A	SUN0315-3485	5+09.27	AD-5A	VCP	8	120	1.12%	3749
SUN0315-3475	4+47.51	AD-5A	SUN0315-3480	3+89.27	AD-5A	VCP	8	389	2.32%	3749
INE DR										
SUN0430-2035	10+45.22	AD5A	SUN0430-2040	14+34.00	AD-5A	VCP	8	389	1.08%	3748
SUN0430-2030	6+06.00	AD5A	SUN0430-2035	10+45.22	AD5A	VCP	8	439	0.60%	3748
SUN0430-2025	1+90.00	AD5A	SUN0430-2030	6+06.00	AD5A	VCP	8	416	3.20%	3748
SUN0430-0960	8+85.31	TR-5448	SUN0430-1325	2+02.46	TR-5448	VCP	8	193	3.00%	3550
SUN0315-2050	340+59.52	7-22	SUN0315-3935	345+52.54	7-22	VCP	18	501	1.08%	3748
SUN0315-3925	332+60.32	7-22	SUN0315-3930	334+18.00	7-22	VCP	18	136	1.08%	3748
SUN0315-3920	331+85.00	7-22	SUN0315-3925	332+60.32	7-22	VCP	18	75	1.08%	3748
SUN0315-3420	4+67.00	7-3C	SUN0315-3425	8+63.20	AD-5A	VCP	8	396	2.70%	3849
SUN0315-3415	2+60.85	7-3C	SUN0315-3420	4+67.00	7-3C	VCP	8	206	6.08%	3849
SUN0315-3410	13+50.00	7-3C	SUN0315-3415	2+60.85	7-3C	VCP	8	261	4.40%	3849
SUN0315-3405	8+01.89	7-3C	SUN0315-3410	13+50.00	7-3C	VCP	8	185	0.52%	3849
SUN0315-3400	4+30.31	7-3C	SUN0315-3405	8+01.89	7-3C	VCP	8	372	0.52%	3749 / 384
SUN0315-0399	0+00.00	UNK	SUN0315-3400	4+30.31	7-3C	VCP	8	160	0.78%	3748 / 374
SUN0315-2943	7+42.74	TR-6206	SUN0315-2945	9+85.18	TR-5009	VCP	8	299	1.54%	3550
SUN0315-2940	6+86.24	TR-6206	SUN0315-2943	7+42.74	TR-6206	VCP	8	54	1.54%	3550
SUN0315-2935	5+30.31	TR-5009	SUN0315-2940	6+86.24	TR-6206	VCP	8	156	0.70%	3550
SUN0315-2930	2+72.17	TR-5009	SUN0315-2935	5+30.31	TR-5009	VCP	8	258	1.00%	3550
SUN0315-2850	1+33.48	TR-5009	SUN0315-2930	2+72.17	TR-5009	VCP	8	272	0.52%	3550
SUN0315-2045	337+18.98	7-22	SUN0315-2050	340+59.52	7-22	VCP	18	341	1.08%	3748
SUN0315-2040	336+10.15	7-22	SUN0315-2045	337+18.98	7-22	VCP	18	119	1.08%	3748
SUN0315-1890	335+75.50	7-22	SUN0315-2040	336+10.15	7-22	VCP	18	35	0.75%	3748
SUN0315-2050	340+59.52	7-22	SUN0315-1900	340+59.46	7-3	VCP	8	20	16.70%	3748
SUN0315-3930	334+18.00	7-22	SUN0315-1890	335+75.50	7-22	VCP	18	158	1.08%	3748
SUN0315-0180	0+49.61	7-3C	SUN0315-0399	0+00.00	UNK	VCP	8	265	0.40%	3748
SUN0315-0399	0+00.00	UNK	SUN0315-0398	0+15.53	UNK	VCP	8	19	1.05%	3748
SUN0315-0398	0+15.53	UNK	SUN0315-0397	5+18.07	UNK	VCP	8	504	1.01%	3748 / 384
HAT0380-0045	3+00.00	SSI-F	HAT0380-0050	5+16.76	SSI-F	VCP	8	217	7.20%	3750
HAT0380-0000	4+48.76	SSI-F	HAT0380-0045	3+00.00	SSI-F	VCP	8	300	4.44%	3750
HAT0375-0000	2+21.42	SSI-E	HAT0380-0000	4+48.76	SSI-F	VCP	8	227	7.16%	3750
HAT0370-0000	0+00.00	SSI-E	HAT0375-0000	2+21.42	SSI-E	VCP	8	219	5.69%	3750
HAT0365-0000	9+45.09	RA5	HAT0370-0000	0+00.00	SSI-E	VCP	8	351	4.84%	3750

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
HAT0360-0000	0+05.00	TR-7454	HAT0365-0000	9+45.09	RA5	VCP	8	150	5.33%	3750
HAT0355-0000	5+95.09	RA5	HAT0360-0000	0+05.00	TR-7454	VCP	8	200	7.00%	3749 / 3750
HAT0350-0000	2+50.00	TR-4796	HAT0355-0000	5+95.09	RA5	VCP	8	345	3.85%	3749
HAT0345-0000	5+37.32	TR-4317	HAT0350-0000	2+50.00	TR-4796	VCP	8	250	2.78%	3749
SKYLINE PARK DR										
HAT0255-0185	7+21.03	AD-5A	HAT0255-0190	10+26.00	AD-5A	VCP	8	305	0.64%	3848 / 3849
SKYWAY DR										
SUN0315-3570	8+07.51	AD-5A	SUN0315-3575	11+67.89	AD-5A	VCP	8	360	3.60%	3749
SUN0315-3475	4+47.51	AD-5A	SUN0315-3570	8+07.51	AD-5A	VCP	8	360	1.12%	3749
SUN0315-3405	8+01.89	7-3C	SUN0315-3475	4+47.51	AD-5A	VÇP	8	448	1.16%	3849 / 3749
SMILEY DR										
SUN0480-1625	6+19.00	AD-1	SUN0480-1755	0+70.00	AD-1	VCP	8	70	3.96%	3348
SUN0480-1635	4+58.70	AD-1	SUN0480-1640	6+89.40	AD-1	VCP	8	231	0.32%	3348
SUN0480-1630	2+27.50	AD-1	SUN0480-1635	4+58.70	AD-1	VCP	8	231	0.32%	3348
SUN0480-1625	6+19.00	AD-1	SUN0480-1630	2+27.50	AD-1	VCP	8	228	0.32%	3348
RED0625-0455	0+80.00	SSI-B	RED0625-0460	2+64.00	SSI-B	VCP	8	180	0.84%	3348
SMOKE TREE LN										
SUN0315-3590	2+76.00	TR-3731	SUN0315-3875	4+43.96	AD-5A	VCP	8	444	0.24%	3649
SUN0315-3865	4+00.00	AD-5A	SUN0315-3870	7+96.00	AD-5A	VCP	8	396	1.20%	3649 / 3549
SUN0315-3590	2+76.00	TR-3731	SUN0315-3865	4+00.00	AD-5A	VCP	8	400	1.60%	3649
SMOKEWOOD DR										
SUN0315-3230	4+00.00	TR-4586	SUN0315-3235	7+32.90	TR-4586	VCP	8	333	10.00%	3649 / 3650
SUN0315-3225	6+71.10	TR-4586	SUN0315-3230	4+00.00	TR-4586	VCP	8	400	7.40%	3649
SOLANA DR							_			
* RED0625-0005	10+53.51	7-4-2A	RED0625-0455	0+80.00	SSI-B	VCP	8	78	8.70%	3348
SPAULDING AV					33. 2		_			
SUN0500-0190	3+06.65	AD3B	SUN0500-0195	6+46.65	AD3B	VCP	8	340	0.60%	3547
SUN0500-0125	2+78.09	AD3B	SUN0500-0190	3+06.65	AD3B	VCP	8	307	1.20%	3547
SPRINGWOOD DR	_ , 5.00	7.232			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					33
SUN0430-1810	3+65.00	AD-1	SUN0430-1815	8+65.00	AD-1	VCP	8	500	18.00%	3548 / 3448
SUN0430-1630	10+39.42	7-46	SUN0430-1810	3+65.00	AD-1	VCP	8	365	7.82%	3548
STANFORD CT							_			
SUN0430-1215	4+64.86	SSI-F	SUN0430-1220	6+45.14	SSI-F	VCP	8	175	0.50%	3451
SUN0430-1210	2+99.17	SSI-F	SUN0430-1215	4+64.86	SSI-F	VCP	8	161	0.50%	3451
STANTON			00.0000000		55. 1				0.00,0	0.01
SUN0480-1010	12+40.00	TR-12489	SUN0480-1015	14+55.00	TR-12489	VCP	8	211	2.00%	3548
SUN0480-0955	19+81.52	TR-12489	SUN0480-1010	12+40.00	TR-12489	VCP	8	236	2.00%	3548
STEARNS DR	23.02.02	12 103	35.130 1010	12 : 10.00	12 103	7 5.			2.00/0	33 10
RED0495-0005	3+12.00	AD-3A	RED0495-0010	5+50.00	AD-3A	VCP	8	238	0.20%	3446
* RED0495-0000	168+20.97	7-41	RED0495-0005	3+12.00	AD-3A	VCP	8	302	0.20%	3446
STIRRUP LN	100.20.57	7.11	1.1250 133 0003	3.12.00	, 15 5/1	V C1		302	5.20/0	3440
HAT0000-0290	6+85.84	7-14-2	HAT0000-0295	8+82.45	7-14-2	VCP	8	197	6.56%	3651
STOLLER LN	0.05.04	, 17-2	11/(10000 0255	5102.43	, 17 4	VCI	J .	137	0.5070	3031

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
* RED0625-0025	25+62.03	7-4-2A	RED0625-0445	2+45.00	SSI-F	VCP	8	245	5.71%	3348
* RED0625-0025	25+62.03	7-4-2A	RED0625-0030	26+95.93	7-4-2A	VCP	8	133	4.30%	3348
STONEHENGE DR										
HAT0205-0180	12+49.38	RS-286	HAT0205-0185	7+31.95	RS-285	VCP	8	161	0.38%	3947
HAT0205-0175	9+83.16	RS-231	HAT0205-0180	12+49.38	RS-286	VCP	8	266	0.38%	3947
HAT0205-0170	6+22.60	RS-231	HAT0205-0175	9+83.16	RS-231	VCP	8	361	0.38%	4047 / 3947
HAT0205-0165	2+58.66	RS-231	HAT0205-0170	6+22.60	RS-231	VCP	8	364	0.38%	4047
HAT0205-0010	20+12.37	RS-229	HAT0205-0165	2+58.66	RS-231	VCP	8	247	0.38%	4047
STRAND TER										
SUN0430-0880	8+29.03	TR-8934	SUN0430-0885	10+11.99	TR-8934	VCP	8	183	14.51%	3450
SUN0430-0875	5+17.90	TR-8934	SUN0430-0880	8+29.03	TR-8934	VCP	8	311	16.57%	3450
STRATTON WY										
SUN0480-0277	5+50.75	AD-3B	SUN0480-0315	1+37.00	AD-3B	VCP	6	135	1.00%	3647
SUN0465-0120	4+50.00	AD-2	SUN0465-0125	9+25.00	AD-5A	VCP	8	475	0.96%	3747 / 3647
SUN0465-0010	14+90.00	7-3B	SUN0465-0120	4+50.00	AD-2	VCP	8	450	0.88%	3747
STRAWGERRY RDG										
** SUN0980-0005	0+00.00	7-11-3	SUN0980-0010	0+13.36	7-13	VCP	8	13	3.20%	3351
SUBURNAS WY								-		
SUN0315-2365	6+91.00	TR-3634	SUN0315-2370	10+47.20	TR-3634	VCP	8	356	3.00%	3648
SUN0315-2360	4+47.58	TR-3634	SUN0315-2365	6+91.00	TR-3634	VCP	8	243	2.12%	3648
SUN0315-2345	0+00.00	TR-3596	SUN0315-2350	1+30.56	TR-3596	VCP	8	65	0.40%	3649
SUMMERVILLE AV	0.00.00	3333	33110313 2333	2.00.00	111 3333				0.1070	30.13
HAT0090-0065	2+61.00	S-564	HAT0090-0200	1+29.00	RS-556	VCP	8	129	4.50%	4245
HAT0090-0070	1+28.40	S-564	HAT0090-0195	3+85.80	S-564	VCP	8	257	0.40%	4245
HAT0090-0065	2+61.00	S-564	HAT0090-0070	1+28.40	S-564	VCP	8	128	0.40%	4245
SUNDERLAND ST	2.01.00	3 30 1	1,7410030 0070	1120.10	3 30 1	76.		120	3.1070	12 13
SUN0430-0575	6+05.00	TR-9606	SUN0430-0580	9+05.00	TR-9606	VCP	8	300	1.40%	3351
SUN0430-0570	3+05.00	TR-9606	SUN0430-0575	6+05.00	TR-9606	VCP	8	300	1.84%	3351
SUN0430-0540	23+84.12	TR-9606	SUN0430-0570	3+05.00	TR-9606	VCP	8	205	3.00%	3351
SUN0430-0560	6+82.71	TR-9606	SUN0430-0565	9+20.00	TR-9606	VCP	8	237	1.00%	3351
SUN0430-0555	3+79.27	TR-9606	SUN0430-0560	6+82.71	TR-9606	VCP	8	303	0.96%	3351
SUN0430-0533	23+84.12	TR-9606	SUN0430-0555	3+79.27	TR-9606	VCP	8	279	2.04%	3351
SUNRISE LN	23+64.12	1N-3000	30110430-0333	3+79.27	TN-9000	VCF	0	279	2.04/0	3331
SUN0430-0710	17,60.77	TD 0606	SUN0430-0715	20+63.29	TD 0606	VCP	0	294	E 000/	2250
SUSSEX PL	17+69.77	TR-9606	30110430-0713	20+05.29	TR-9606	VCP	8	294	5.08%	3350
	2,60,00	AD 2D	CLINOE00 0330	F . 22 20	AD 2D	VCD	0	252	0.60%	2647
SUN0500-0315	2+60.00	AD-3B	SUN0500-0320	5+23.30	AD-3B	VCP	8	253	0.60%	3647
SUN0500-0005	2+31.92	7-3B	SUN0500-0315	2+60.00	AD-3B	VCP	8	260	0.60%	3547 / 3647
SUN0500-0225	2+72.00	AD-3B	SUN0500-0310	1+60.00	AD-3B	VCP	8	160	1.60%	3547
SUN0500-0230	5+36.00	AD-3B	SUN0500-0305	1+60.00	AD-3B	VCP	8	160	0.80%	3547
SUN0500-0235	7+94.12	AD-3B	SUN0500-0300	1+60.00	AD-3B	VCP	8	160	1.00%	3547
SUN0500-0240	10+44.12	AD-3B	SUN0500-0295	1+60.00	AD-3B	VCP	8	160	1.00%	3547
SUN0500-0245	12+94.12	AD-3B	SUN0500-0290	1+60.00	AD-3B	VCP	8	160	0.80%	3547
SUN0500-0245	12+94.12	AD-3B	SUN0500-0250	15+53.12	AD-3B	VCP	8	259	1.00%	3547

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0500-0240	10+44.12	AD-3B	SUN0500-0245	12+94.12	AD-3B	VCP	8	250	1.00%	3547
SUN0500-0235	7+94.12	AD-3B	SUN0500-0240	10+44.12	AD-3B	VCP	8	250	1.00%	3547
SUN0500-0230	5+36.00	AD-3B	SUN0500-0235	7+94.12	AD-3B	VCP	8	258	0.32%	3547
SUN0500-0225	2+72.00	AD-3B	SUN0500-0230	5+36.00	AD-3B	VCP	8	264	0.32%	3547
SUN0500-0220	3+99.21	AD-3B	SUN0500-0225	2+72.00	AD-3B	VCP	8	272	0.32%	3547
SUN0500-0005	2+31.92	7-3B	SUN0500-0090	0+22.00	AD-3B	VCP	8	22	0.40%	3547
SWIDLER PL										
RED0485-0210	6+67.00	AD-3A	RED0485-0215	1+80.00	AD-3A	VCP	8	180	0.60%	3446
RED0485-0145	6+77.00	AD-3A	RED0485-0150	4+56.88	AD-3A	VCP	8	457	0.64%	3446
SYCAMORE AV										
RED0135-0040	22+69.00	SSI-F	RED0135-0045	13+83.51	7-4-2R	VCP	8	344	0.48%	4144 / 4044
RED0135-0035	21+00.00	SSI-F	RED0135-0040	22+69.00	SSI-F	VCP	8	171	0.48%	4145 / 4144
RED0135-0030	1+70.00	TR-5028	RED0135-0035	21+00.00	SSI-F	VCP	8	287	0.48%	4145
RED0135-0025	16+80.80	SSI-F	RED0135-0030	1+70.00	TR-5028	VCP	8	112	0.48%	4145
RED0135-0021	14+83.00	RA-1	RED0135-0025	16+80.80	SSI-F	VCP	8	217	0.48%	4145
RED0135-0015	11+15.00	SSI-F	RED0135-0020	14+53.80	SSI-F	VCP	8	368	0.48%	4145
RED0135-0010	7+75.00	SSI-F	RED0135-0015	11+15.00	SSI-F	VCP	8	340	0.48%	4145
RED0135-0005	3+85.00	SSI-F	RED0135-0010	7+75.00	SSI-F	VCP	8	392	0.48%	4145
* RED0135-0000	200+17.52	7-2	RED0135-0005	3+85.00	SSI-F	VCP	8	370	0.48%	4145
TAMARISK DR							_			
SUN0480-0995	4+14.35	TR-8616	SUN0480-1005	1+45.38	TR-8616	VCP	8	141	0.40%	3548
SUN0480-0995	4+14.35	TR-8616	SUN0480-1000	7+00.12	TR-8616	VCP	8	282	1.32%	3548
SUN0480-0975	7+41.87	TR-8616	SUN0480-0980	10+77.59	TR-8616	VCP	8	332	2.56%	3548
TAMMANY CIR		55-5					-			
SUN0315-2450	3+12.00	TR-4849	SUN0315-2455	4+99.00	TR-4849	VCP	8	187	5.00%	3649
TEA HOUSE ST	<u> </u>		00.10010 1.00						0.00,1	
SUN0480-0720	3+40.36	TR-3829	SUN0480-0725	4+16.44	TR-3829	VCP	8	76	4.00%	3648
SUN0480-0705	1+46.56	TR-3829	SUN0480-0720	3+40.36	TR-3829	VCP	8	193	1.60%	3648
SUN0480-0700	0+10.00	TR-3829	SUN0480-0705	1+46.56	TR-3829	VCP	8	132	1.20%	3648
SUN0480-0695	4+18.00	TR-5576	SUN0480-0700	0+10.00	TR-3829	VCP	8	46	1.20%	3648
SUN0480-0690	2+80.00	TR-5576	SUN0480-0695	4+18.00	TR-5576	VCP	8	138	3.08%	3648
SUN0480-0620	1+22.68	TR-5576	SUN0480-0690	2+80.00	TR-5576	VCP	8	280	1.16%	3648
TENBY LN	1122.00	11(3376	30110400 0030	2100.00	111 3370	VCI	0	200	1.1070	3040
RED0145-0015	5+43.30	TR-6490	RED0145-0215	1+68.67	TR-6490	VCP	8	169	0.40%	4145
TERRACE VW	3143.30	111 0430	NED0143 0213	1100.07	111 0430	VCI	0	105	0.4070	7173
SUN0430-0845	6+72.96	TR-1917	SUN0430-0850	3+75.00	TR-1917	VCP	6	298	13.73%	3450
SUN0430-0845	8+64.00	TR-1917	SUN0430-0845	6+72.96	TR-1917	VCP	6	191	12.15%	3450
THEODORA DR	3104.00	111-1317	30110-30-0043	0172.30	11/-131/	V CI	U U	171	12.13/0	3430
SUN0415-0355	5+00.00	AD-2	SUN0415-0360	9+80.00	AD-5A	VCP	8	480	0.40%	3746
SUN0415-0353	34+96.37	7-39	SUN0415-0355	5+00.00	AD-3A AD-2	VCP	8	480 486	0.40%	3746
RED0335-0020	0+00.00	TR-7969	RED0335-0040	11+75.00	AD-2 AD-2	VCP	8	143	0.40%	3746
RED0335-0020 RED0335-0015	8+00.00	AD-2	RED0335-0040	0+00.00	TR-7969	VCP	8	232	0.40%	3746
RED0335-0010	4+00.00	AD-2	RED0335-0015	8+00.00	AD-2	VCP	8	400	0.40%	3745 / 3746

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
RED0335-0005	94+40.00	7-4-1	RED0335-0010	4+00.00	AD-2	VCP	8	400	0.82%	3745
* RED0335-0000	82+07.83	7-41	RED0335-0005	94+40.00	7-4-1	VCP	8	25	10.96%	3745
HETA RD										
HAT0290-0075	8+99.73	AD-4	HAT0290-0080	11+23.73	AD-3A	VCP	8	224	1.80%	3850 / 3849
HAT0290-0070	5+96.00	AD-4	HAT0290-0075	8+99.73	AD-4	VCP	8	304	1.80%	3850
HAT0290-0065	3+87.67	AD-4	HAT0290-0070	5+96.00	AD-4	VCP	8	208	3.72%	3850
HAT0290-0060	2+78.97	AD-4	HAT0290-0065	3+87.67	AD-4	VCP	8	109	2.27%	3850
HORLEY RD										
SUN0315-2840	9+63.90	TR-4855	SUN0315-2845	10+73.35	TR-4855	VCP	8	109	8.04%	3550
SUN0315-2835	7+55.19	TR-4855	SUN0315-2840	9+63.90	TR-4855	VCP	8	209	8.68%	3550
SUN0315-2830	5+91.27	TR-4855	SUN0315-2835	7+55.19	TR-4855	VCP	8	164	11.20%	3550
SUN0315-2825	4+00.00	TR-4855	SUN0315-2830	5+91.27	TR-4855	VCP	8	191	8.64%	3550
SUN0315-2820	2+04.60	TR-4855	SUN0315-2825	4+00.00	TR-4855	VCP	8	195	11.68%	3550
SUN0315-2815	20+17.74	TR-4855	SUN0315-2820	2+04.60	TR-4855	VCP	8	205	5.64%	3550
FFANY PL										
SUN0315-1430	1+64.39	AD-4	SUN0315-1480	5+02.39	AD-4	VCP	8	338	0.24%	3948 / 3848
SUN0315-1425	0+00.00	TR-3951	SUN0315-1430	1+64.39	AD-4	VCP	8	164	0.24%	3948
SUN0315-1420	1+34.00	TR-3951	SUN0315-1425	0+00.00	TR-3951	VCP	8	96	0.24%	3948
SUN0315-1355	2+13.61	TR-3951	SUN0315-1420	1+34.00	TR-3951	VCP	8	125	0.24%	3948
SUN0315-1355	2+13.61	TR-3951	SUN0315-1360	5+33.95	TR-3951	VCP	8	275	0.24%	3948
SUN0315-1185	2+33.32	AD-4	SUN0315-1230	1+45.00	AD-4	VCP	8	145	1.00%	3847
HAT0255-0025	3+05.59	AD-4	HAT0255-0055	3+03.49	AD-4	VCP	8	303	0.24%	3948
KI CIR										
SUN0315-0905	6+46.00	TR-4331	SUN0315-0910	1+67.34	TR-4331	VCP	8	167	0.40%	3947
KI LN										
SUN0315-0775	5+28.84	TR-4494	SUN0315-0770	3+88.00	TR-4494	VCP	8	388	0.32%	3946
MBERLINE LN										
SUN0430-0545	26+84.12	TR-9606	SUN0430-0550	29+79.29	TR-9606	VCP	8	295	6.64%	3351
SUN0430-0540	23+84.12	TR-9606	SUN0430-0545	26+84.12	TR-9606	VCP	8	300	14.08%	3351
SUN0430-0535	22+39.20	TR-9606	SUN0430-0540	23+84.12	TR-9606	VCP	8	145	15.00%	3351
SUN0430-0530	20+68.99	TR-9606	SUN0430-0535	22+39.20	TR-9606	VCP	8	170	14.50%	3351
SUN0430-0525	18+03.10	TR-9606	SUN0430-0530	20+68.99	TR-9606	VCP	8	266	15.00%	3351
SUN0430-0520	15+95.10	TR-9606	SUN0430-0525	18+03.10	TR-9606	VCP	8	208	10.88%	3351
SUN0430-0515	13+56.22	TR-9606	SUN0430-0520	15+95.10	TR-9606	VCP	8	239	0.40%	3351
SUN0430-0510	11+51.01	TR-9606	SUN0430-0515	13+56.22	TR-9606	VCP	8	205	0.40%	3351
SUN0430-0505	9+27.98	TR-9606	SUN0430-0510	11+51.01	TR-9606	VCP	8	223	0.40%	3351
SUN0430-0500	6+71.01	TR-9606	SUN0430-0505	9+27.98	TR-9606	VCP	8	257	0.40%	3351
RAVERTINE PL										
HAT0000-0715	2+75.98	TR-4967	HAT0000-0720	6+25.98	TR-4967	VCP	8	350	11.00%	3551
HAT0000-0710	1+54.22	TR-4967	HAT0000-0715	2+75.98	TR-4967	VCP	8	122	6.12%	3551
HAT0000-0705	8+31.67	TR-4967	HAT0000-0710	1+54.22	TR-4967	VCP	8	154	5.20%	3551
REASURE LN										
SUN0315-3280	3+81.51	TR-4846	SUN0315-3285	1+92.00	TR-4846	VCP	8	188	14.80%	3650

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0315-3240	3+14.00	TR-4586	SUN0315-3245	5+20.75	TR-4586	VCP	8	207	6.40%	3649
SUN0315-3220	3+40.00	TR-4586	SUN0315-3240	3+14.00	TR-4586	VCP	8	314	6.40%	3649
TRIUMPHAL WY										
SUN0315-2340	3+50.53	TR-3596	SUN0315-2345	0+00.00	TR-3596	VCP	8	346	0.60%	3649
SUN0315-2335	7+00.00	TR-3596	SUN0315-2340	3+50.53	TR-3596	VCP	8	350	1.00%	3649
SUN0315-2330	9+56.11	TR-3596	SUN0315-2335	7+00.00	TR-3596	VCP	8	272	1.20%	3649
ROPIC LN										
SUN0430-1995	3+00.00	AD-5A	SUN0430-2000	6+00.92	AD-5A	VCP	8	301	0.32%	3648
SUN0430-0105	28+46.93	7-3E	SUN0430-1995	3+00.00	AD-5A	VCP	8	300	0.68%	3648
ROPICANA LN										
SUN0315-3895	2+01.00	AD-5A	SUN0315-3900	5+32.00	AD-5A	VCP	8	331	0.40%	3649 / 3549
USTIN EAST DR										
SUN0315-0510	3+54.56	SSI-F	SUN0315-0515	6+04.56	SSI-F	VCP	8	250	0.32%	4047
HAT0180-0040	0+00.00	SSI-F	HAT0180-0045	1+80.00	SSI-F	VCP	8	180	0.36%	4047
HAT0180-0035	3+12.4	SSI-F	HAT0180-0040	0+00.00	SSI-F	VCP	8	312	UNK	4047
HAT0180-0030	6+35.1	SSI-F	HAT0180-0035	3+12.4	SSI-F	VCP	8	320	UNK	4047
USTIN VILLAGE WY										
RED0120-0660	1+00.00	S-601	RED0120-0745	1+72.25	S-601	VCP	8	72	2.27%	4044
RED0120-0690	19+50.00	TR-4854	RED0120-0695	22+27.42	TR-4854	VCP	8	277	0.40%	3944
RED0120-0687	18+78.09	TR-4854	RED0120-0690	19+50.00	TR-4854	VCP	8	69	0.40%	3944
RED0120-0685	16+59.76	TR-4854	RED0120-0687	18+78.09	TR-4854	VCP	8	221	0.40%	3944
RED0120-0683	15+11.44	TR-4854	RED0120-0685	16+59.76	TR-4854	VCP	8	148	0.40%	3944
RED0120-0680	14+00.00	S-470	RED0120-0683	15+11.44	TR-4854	VCP	8	97	0.40%	3944
RED0120-0677	12+70.60	S-470	RED0120-0680	14+00.00	S-470	VCP	8	129	0.40%	3944
RED0120-0675	10+50.00	S-470	RED0120-0677	12+70.60	S-470	VCP	8	221	0.40%	4044 / 3944
RED0120-0670	7+00.00	S-470	RED0120-0675	10+50.00	S-470	VCP	8	350	0.60%	4044
RED0120-0665	3+50.00	S-470	RED0120-0670	7+00.00	S-470	VCP	8	350	0.60%	4044
RED0120-0660	1+00.00	S-601	RED0120-0665	3+50.00	S-470	VCP	8	170	2.03%	4044
RED0120-0655	4+79.36	S-470	RED0120-0660	1+00.00	S-601	VCP	8	180	2.03%	4044
JTT DR	4.73.30	3 470	NED0120 0000	1.00.00	3 001	V C1	J	100	2.0370	1011
SUN0315-0620	2+86.00	TR-4334	SUN0315-0630	3+98.00	TR-4334	VCP	8	112	2.24%	3946 / 3947
SUN0315-0565	1+35.00	TR-4334	SUN0315-0620	2+86.00	TR-4334	VCP	8	286	0.56%	3946
SUN0315-0590	1+71.50	TR-4334		2+46.50		VCP		247		3946
			SUN0315-0610		RS-865		8		0.40%	
SUN0315-0585	2+26.00	TR-4317	SUN0315-0590	1+71.50	TR-4334	VCP	8	172	0.48%	3946
SUN0315-0560	6+44.00	TR-4317	SUN0315-0585	2+26.00	TR-4317	VCP	8	226	0.48%	3946
RED0180-0025	7+97.60	TR-4251	RED0180-0030	10+72.60	TR-4251	VCP	8	275	0.40%	4046
RED0180-0020	5+22.60	TR-4251	RED0180-0025	7+97.60	TR-4251	VCP	8	275	0.40%	4046
RED0180-0015	2+56.76	TR-4251	RED0180-0020	5+22.60	TR-4251	VCP	8	266	0.32%	4046
* RED0180-0000	6+77.00	7-4-1	RED0180-0015	2+56.76	TR-4251	VCP	8	260	0.35%	4046
/ALE AV										
SUN0500-0200	3+52.70	AD3B	SUN0500-0205	3+94.00	AD3B	VCP	8	394	0.40%	3547
/ALENCIA AV										
RED0087-0020	23+89.87	SSI-E	RED0087-0025	27+17.14	SSI-E	VCP	10	327	0.44%	4244

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
RED0087-0015	20+61.79	SSI-E	RED0087-0020	23+89.87	SSI-E	VCP	10	328	0.46%	4244
RED0087-0010	17+17.31	SSI-E	RED0087-0015	20+61.79	SSI-E	VCP	10	344	0.45%	4244
RED0087-0005	13+72.85	SSI-E	RED0087-0010	17+17.31	SSI-E	VCP	10	344	0.45%	4244
* RED0087-0000	10+00.00	SSI-E	RED0087-0005	13+72.85	SSI-E	VCP	10	373	0.63%	4244
RED0085-0055	19+20.00	7-1	RED0085-0060	21+40.00	7-1	VCP	10	220	0.32%	4244
RED0085-0025	17+05.00	X-31	RED0085-0055	19+20.00	7-1	VCP	10	215	0.32%	4244
RED0085-0020	14+00.00	X-31	RED0085-0025	17+05.00	X-31	VCP	10	305	0.32%	4244
RED0085-0015	10+50.00	X-31	RED0085-0020	14+00.00	X-31	VCP	10	350	0.32%	4244
RED0085-0010	7+00.00	S-526	RED0085-0015	10+50.00	X-31	VCP	10	350	0.32%	4244
RED0085-0005	3+50.00	S-526	RED0085-0010	7+00.00	S-526	VCP	10	350	0.32%	4244
* RED0085-0000	160+56.40	7-2	RED0085-0005	3+50.00	S-526	VCP	10	350	0.32%	4244
VALHALLA DR										
HAT0335-0065	6+15.51	TR-3883	HAT0335-0070	8+89.69	TR-3883	VCP	8	274	7.90%	3750
HAT0335-0060	2+65.51	TR-3883	HAT0335-0065	6+15.51	TR-3883	VCP	8	350	6.50%	3850 / 3750
HAT0335-0055	11+73.22	TR-3883	HAT0335-0060	2+65.51	TR-3883	VCP	8	266	0.46%	3850
VANDENBERG LN										
RED0380-0040	20+42.04	RS-985	RED0380-0045	7+58.44	RS-1008B	VCP	8	309	0.40%	3745 / 3744
RED0380-0035	17+42.04	RS-985	RED0380-0040	20+42.04	RS-985	VCP	8	300	0.40%	3745
RED0380-0030	14+42.02	RS-985	RED0380-0035	17+42.04	RS-985	VCP	8	300	0.40%	3745
RED0380-0025	12+55.48	RS-864	RED0380-0030	14+42.02	RS-985	VCP	8	187	0.40%	3745
RED0380-0020	10+07.00	RS-864	RED0380-0025	12+55.48	RS-864	VCP	8	248	0.40%	3745
RED0380-0015	7+95.00	RS-864	RED0380-0020	10+07.00	RS-864	VCP	8	212	0.40%	3745
RED0380-0010	5+95.00	RS-859	RED0380-0015	7+95.00	RS-864	VCP	8	206	0.40%	3745
RED0380-0005	2+95.00	RS-859	RED0380-0010	5+95.00	RS-859	VCP	8	300	0.40%	3745
* RED0380-0000	102+95.49	7-41	RED0380-0005	2+95.00	RS-859	VCP	8	285	0.40%	3745
VANDERLIP AV										
SUN0465-0020	24+59.00	7-3B	SUN0465-0025	29+00.00	7-3B	VCP	8	441	0.40%	3747
SUN0465-0015	19+03.00	7-3B	SUN0465-0020	24+59.00	7-3B	VCP	8	556	0.40%	3747
SUN0465-0010	14+90.00	7-3B	SUN0465-0015	19+03.00	7-3B	VCP	8	413	0.40%	3747
SUN0465-0005	10+10.00	7-3B	SUN0465-0010	14+90.00	7-3B	VCP	8	480	1.24%	3747
* SUN0465-0000	118+96.03	7-6-7	SUN0465-0005	10+10.00	7-3B	VCP	8	273	1.24%	3747
SUN0415-0600	5+73.50	7-3B	SUN0415-0601	UNK	7-3B	VCP	8	164	1.24%	3746
SUN0415-0593	2+50.00	7-3B	SUN0415-0600	5+73.50	7-3B	VCP	8	324	1.24%	3746
SUN0415-0065	77+54.00	7-3B	SUN0415-0593	2+50.00	7-3B	VCP	8	246	0.32%	3746
VANDERLIP PL										
SUN0415-0440	0+76.70	AD-2	SUN0415-0445	2+37.70	AD-2	VCP	8	161	0.10%	3746
SUN0415-0065	77+54.00	7-3B	SUN0415-0440	0+76.70	AD-2	VCP	8	77	1.96%	3746
VAYANO WY										
SUN0315-3390	2+50.00	AD-5A	SUN0315-3395	6+15.00	AD-5A	VCP	8	365	0.40%	3749 / 3748
SUN0315-0190	10+70.00	AD-5A	SUN0315-3390	2+50.00	AD-5A	VCP	8	250	1.90%	3749
VEEH DR										
RED0180-0035	2+98.86	TR-4251	RED0180-0040	5+73.86	TR-4251	VCP	8	275	0.24%	4046 / 4045
RED0180-0015	2+56.76	TR-4251	RED0180-0035	2+98.86	TR-4251	VCP	8	299	0.28%	4046

DOWNSTREAM MH	STATION #	PROJECT#	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
VERA ST										
SUN0455-0015	17+64.34	7-3B	SUN0455-0020	3+20.00	TR-3793	VCP	8	310	0.52%	3747
VIA AVENTURA										
SUN0480-1300	2+12.00	TR-8212	SUN0480-1305	3+35.00	AD-1	VCP	8	109	27.20%	3448
SUN0480-1105	3+30.00	AD-1	SUN0480-1255	0+00.00	AD-1	VCP	8	389	1.52%	3448
VIA RANCHO										
HAT0000-0065	7+46.95	TR-8640	HAT0000-0075	2+37.52	TR-8640	VCP	8	238	6.20%	3750
VIEW RIDGE DR										
SUN0430-1860	1+05.97	AD-1	SUN0430-1875	2+01.50	AD-1	VCP	8	95	15.88%	3448
SUN0430-1855	5+89.56	AD-1	SUN0430-1860	1+05.97	AD-1	VCP	8	106	19.62%	3448
SUN0430-1850	4+52.66	AD-1	SUN0430-1855	5+89.56	AD-1	VCP	8	137	20.00%	3448
SUN0430-1845	3+51.00	AD-2	SUN0430-1850	4+52.66	AD-1	VÇP	8	102	2.50%	3448
SUN0430-1840	2+13.90	AD-1	SUN0430-1845	3+51.00	AD-2	VCP	8	137	4.00%	3448
SUN0430-1835	3+24.87	AD-1	SUN0430-1840	2+13.90	AD-1	VCP	8	214	6.12%	3448
SUN0430-1830	4+03.02	AD-1	SUN0430-1835	3+24.87	AD-1	VCP	8	325	6.56%	3448
VILLA ROSE DR										
SUN0430-1785	4+98.00	AD-1	SUN0430-1790	3+06.28	AD-1	VCP	8	131	13.00%	3448 / 3449
SUN0430-1780	2+63.00	AD-1	SUN0430-1785	4+98.00	AD-1	VCP	8	235	20.00%	3548 / 3448
SUN0430-1640	13+15.16	AD-1	SUN0430-1780	2+63.00	AD-1	VCP	8	263	9.62%	3548
VILLAGE DR										
RED0320-0165	8+50.72	RS-245	RED0320-0195	1+30.00	RS-246	VCP	8	135	0.40%	3745
RED0320-0180	1+71.00	RS-245	RED0320-0185	0+85.00	RS-245	VCP	8	86	0.40%	3744
RED0320-0175	4+63.00	RS-245	RED0320-0180	1+71.00	RS-245	VCP	8	292	0.40%	3745 / 3744
RED0320-0170	5+75.27	RS-245	RED0320-0175	4+63.00	RS-245	VCP	8	112	0.40%	3745
RED0320-0165	8+50.72	RS-245	RED0320-0170	5+75.27	RS-245	VCP	8	275	0.40%	3745
RED0320-0040	11+17.88	RS-245	RED0320-0165	8+50.72	RS-245	VCP	8	268	0.54%	3745
VINE ST										
SUN0635-0015	10+01.00	AD-6	SUN0635-0020	4+30.00	AD-6	VCP	8	430	0.40%	3248
SUN0635-0010	6+76.00	AD-6	SUN0635-0015	10+01.00	AD-6	VCP	8	325	0.40%	3247 / 3248
SUN0635-0005	3+42.00	AD-6	SUN0635-0010	6+76.00	AD-6	VCP	8	334	0.40%	3247
RED0585-0080	2+50.00	AD-6	RED0585-0085	5+62.50	AD-6	VCP	8	313	1.82%	3247
RED0585-0070	9+59.80	AD-6	RED0585-0080	2+50.00	AD-6	VCP	8	250	1.92%	3247
RED0585-0025	10+37.55	AD-6	RED0585-0035	3+91.50	AD-6	VCP	8	392	1.09%	3247
VINEWOOD AV										
RED0215-0190	0+00.00	RS-612	RED0215-0195	2+50.00	RS-612	VCP	8	250	0.44%	3844
RED0215-0100	4+14.85	RS-282	RED0215-0190	0+00.00	RS-612	VCP	8	320	0.30%	3845 / 3844
RED0215-0105	0+05.00	RS-282	RED0215-0110	2+55.00	RS-281	VCP	8	260	0.32%	3845
RED0215-0100	4+14.85	RS-282	RED0215-0105	0+05.00	RS-282	VCP	8	131	0.32%	3845
VISTA DEL VALLE										
SUN0430-0355	4+00.00	TR-13238	SUN0430-0360	6+02.00	TR-13238	VCP	8	198	9.00%	3449
SUN0430-0350	1+32.00	TR-13238	SUN0430-0355	4+00.00	TR-13238	VCP	8	264	10.81%	3449
VISTA MAR										
HAT0380-0005	3+67.53	TR-8640	HAT0380-0040	5+81.80	TR-8640	VCP	8	214	6.00%	3750

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
HAT0380-0030	8+86.04	TR-9615	HAT0380-0035	10+20.83	TR-9615	VCP	8	131	5.12%	3750
HAT0380-0025	8+34.04	TR-9615	HAT0380-0030	8+86.04	TR-9615	VCP	8	48	6.38%	3750
HAT0380-0020	7+48.04	TR-9615	HAT0380-0025	8+34.04	TR-9615	VCP	8	82	8.78%	3750
HAT0380-0015	6+59.04	TR-9615	HAT0380-0020	7+48.04	TR-9615	VCP	8	85	8.00%	3750
HAT0380-0010	3+79.72	TR-9615	HAT0380-0015	6+59.04	TR-9615	VCP	8	275	8.94%	3750
HAT0380-0005	3+67.53	TR-8640	HAT0380-0010	3+79.72	TR-9615	VCP	8	376	1.59%	3750
VISTA PANORAMA										
SUN0480-1190	4+40.00	AD-1	SUN0480-1205	1+84.29	AD-1	VCP	8	184	4.08%	3448
SUN0480-1195	7+34.81	AD-1	SUN0480-1200	11+94.81	AD-1	VCP	8	460	4.16%	3448 / 3348
SUN0480-1190	4+40.00	AD-1	SUN0480-1195	7+34.81	AD-1	VÇP	8	295	3.68%	3448
SUN0480-1185	2+40.00	AD-1	SUN0480-1190	4+40.00	AD-1	VCP	8	200	15.08%	3448
RED0625-0395	2+42.12	AD-1	RED0625-0400	5+06.47	AD-1	VÇP	8	264	5.68%	3448 / 3348
RED0625-0390	3+63.20	AD-1	RED0625-0395	2+42.12	AD-1	VCP	8	242	4.68%	3448
SUN0480-1205	1+84.29	AD-1	RED0625-0390	3+63.20	AD-1	VCP	8	179	3.36%	3448
RED0625-0385	5+67.81	AD-1	RED0625-0390	3+63.20	AD-1	VCP	8	363	3.16%	3448
RED0625-0380	2+16.39	AD-1	RED0625-0385	5+67.81	AD-1	VCP	8	351	7.08%	3348 / 3448
RED0625-0375	8+07.80	AD-1	RED0625-0380	2+16.39	AD-1	VCP	8	216	3.60%	3348
VISTA PRIVADA										
HAT0000-0105	9+67.27	TR-8640	HAT0000-0110	11+09.27	TR-8640	VCP	8	138	16.56%	3750
WALDEN LN										
RED0145-0195	0+00.00	RS-545	RED0145-0205	2+18.80	RS-545	VCP	8	219	0.40%	4045
WALNUT AV										
RED0145-0050	30+18.00	7-2B	RED0145-0055	32+54.70	7-2B	VCP	10	237	0.56%	4045
RED0145-0045	26+70.38	7-2B	RED0145-0050	30+18.00	7-2B	VCP	10	348	0.56%	4045
RED0145-0040	19+95.00	7-2B	RED0145-0045	26+70.38	7-2B	VCP	12	675	0.58%	4045
RED0145-0035	19+58.10	7-2B	RED0145-0040	19+95.00	7-2B	VCP	12	37	0.58%	4045
RED0145-0030	13+20.00	7-2B	RED0145-0035	19+58.10	7-2B	VCP	12	638	0.58%	4045
RED0145-0025	0+00.00	RS-542	RED0145-0030	13+20.00	7-2B	VCP	12	219	0.65%	4045
RED0145-0020	6+62.30	7-2B	RED0145-0025	0+00.00	RS-542	VCP	12	439	0.54%	4145 / 4045
RED0145-0015	5+43.30	TR-6490	RED0145-0020	6+62.30	7-2B	VCP	12	122	0.58%	4145
RED0145-0010	4+72.89	TR-5745	RED0145-0015	5+43.30	TR-6490	VCP	12	67	0.58%	4145
RED0145-0005	2+64.00	TR-5745	RED0145-0010	4+72.89	TR-5745	VCP	12	209	0.58%	4145
* RED0145-0000	213+37.52	7-2B	RED0145-0005	2+64.00	TR-5745	VCP	12	258	0.58%	4145
HAT0120-0025	9+75.55	TR-6484	HAT0120-0030	0+00.00	TR-6484	VCP	8	365	0.40%	4146
HAT0120-0020	0+08.00	RS-539	HAT0120-0025	9+75.55	TR-6484	VCP	8	304	0.44%	4146
HAT0120-0015	13+40.55	TR-6484	HAT0120-0020	0+08.00	RS-539	VCP	8	61	0.23%	4146
HAT0120-0010	0+08.00	RS-565	HAT0120-0015	13+40.55	TR-6484	VCP	8	215	0.60%	4146
HAT0120-0005	17+05.55	TR-6484	HAT0120-0010	0+08.00	RS-565	VCP	8	150	0.60%	4146
HAT0120-0000	27+15.77	7-2A	HAT0120-0005	17+05.55	TR-6484	VCP	8	364	0.60%	4146
WALTER AV	27 : 13.77	7 21(17.00.00	111 0 10 1	V C1		30-1	3.0070	7170
RED0195-0010	5+48.00	S-145	RED0195-0020	0+84.00	S-145	VCP	8	84	0.40%	4045
RED0195-0010	5+48.00	S-145	RED0195-0015	2+11.00	S-145	VCP	8	211	0.40%	4045
WEDOTOO OOTO	J 1 70.00	3 173	1,50133 0013	2,11.00	2 172	I VC'	J	4 1 1	J. T U/0	I TOTO

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0455-0105	0+00.00	AD-2	SUN0455-0110	3+97.95	AD-2	VCP	8	398	0.61%	3747
SUN0455-0015	17+64.34	7-3B	SUN0455-0100	2+00.00	AD1	VCP	8	200	1.80%	3747
SUN0455-0010	12+24.00	7-3B	SUN0455-0015	17+64.34	7-3B	VCP	8	540	1.00%	3747
SUN0455-0005	8+05.00	7-3B	SUN0455-0010	12+24.00	7-3B	VCP	8	419	1.40%	3747
* SUN0455-0000	105+81.71	7-6-7	SUN0455-0005	8+05.00	7-3B	VCP	8	140	0.80%	3747
SUN0415-0365	4+93.00	7-3B	SUN0455-0000	105+81.71	7-6-7	VCP	8	172	0.80%	3746 / 3747
SUN0415-0045	36+79.64	7-39	SUN0415-0365	4+93.00	7-3B	VCP	8	487	0.32%	3746
ASHINGTON AV										
SUN0480-1615	0+00.00	AD-1	SUN0480-1618	4+26.50	AD-1	VCP	8	426	0.32%	3348
ASS ST										
SUN0315-1280	6+61.16	AD-4	SUN0315-1325	1+70.00	AD-4	VCP	8	170	2.00%	3847
SUN0315-1280	6+61.16	AD-4	SUN0315-1320	4+30.00	AD-4	VÇP	8	430	0.40%	3847
SUN0315-1250	6+52.50	AD-4	SUN0315-1270	1+80.00	AD-4	VCP	8	180	2.20%	3847
ELBE DR										
HAT0255-0160	0+00.00	SSI-G	HAT0255-0225	3+40.00	SSI-G	VCP	8	336	0.40%	3848
ELLINGTON AV										
SUN0415-0060	75+24.56	7-3B	SUN0415-0420	4+73.50	7-40	VCP	8	474	0.40%	3746
SUN0415-0385	2+91.74	TR-4552	SUN0415-0395	2+27.46	TR-4552	VCP	8	223	0.40%	3746 / 3747
RED0365-0020	8+83.72	AD-2	RED0365-0085	11+04.72	AD-2	VCP	8	221	1.60%	3746
RED0365-0015	5+86.60	AD-2	RED0365-0020	8+83.72	AD-2	VCP	8	297	0.32%	3746
RED0365-0010	2+82.50	AD-2	RED0365-0015	5+86.60	AD-2	VCP	8	304	0.32%	3745 / 3746
RED0365-0005	107+71.00	AD-2	RED0365-0010	2+82.50	AD-2	VCP	8	283	0.32%	3745
* RED0365-0000	95+44.51	7-41	RED0365-0005	107+71.00	AD-2	VCP	27	10	87.37%	3745
RED0360-0020	2+10.00	TR-3798	RED0360-0025	0+50.00	TR-3798	VCP	8	215	0.24%	3745
RED0360-0015	3+66.86	TR-3798	RED0360-0020	2+10.00	TR-3798	VCP	8	155	0.24%	3745
RED0360-0010	5+37.00	TR-3798	RED0360-0015	3+66.86	TR-3798	VCP	8	172	0.24%	3745
RED0360-0005	7+65.00	TR-3798	RED0360-0010	5+37.00	TR-3798	VCP	8	228	0.24%	3745
* RED0360-0000	94+99.45	7-41	RED0360-0005	7+65.00	TR-3798	VCP	8	307	0.24%	3745
ESTBURY LN										
RED0320-0015	1+43.09	RS-259	RED0320-0240	0+04.00	RS-259	VCP	8	139	1.12%	3845
RED0320-0010	4+26.09	RS-259	RED0320-0015	1+43.09	RS-259	VCP	8	283	0.40%	3845
RED0320-0005	7+19.09	RS-259	RED0320-0010	4+26.09	RS-259	VCP	8	293	0.40%	3845
* RED0320-0000	72+75.62	7-41	RED0320-0005	7+19.09	RS-259	VCP	8	337	0.40%	3845
ESTFALL RD				5.00	255				01.070	55.5
RED0125-0100	8+14.00	RS-464	RED0125-0105	11+64.35	RS-464	VCP	8	350	0.80%	4145
RED0125-0095	4+64.00	RS-464	RED0125-0100	8+14.00	RS-464	VCP	8	350	0.80%	4145
RED0125-0090	1+14.00	RS-464	RED0125-0095	4+64.00	RS-464	VCP	8	350	0.98%	4145
ESTON PL			3333		1.3 101	. 5.			2.3070	.1.73
SUN0415-0070	81+08.56	7-3B	SUN0415-0450	2+10.00	AD-2	VCP	8	210	0.94%	3746
RED0365-0035	7+50.23	TR-4483	RED0365-0055	2+55.00	TR-4483	VCP	8	153	0.60%	3746
RED0365-0035	7+50.23	TR-4483	RED0365-0040	0+04.00	TR-4483	VCP	8	98	0.24%	3746
RED0355-0075	20+96.00	TR-5244	RED0355-0090	1+73.00	TR-5244	VCP	8	173	0.32%	3746
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DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0315-2905	2+57.79	TR-5794	SUN0315-2910	3+66.79	TR-5794	VCP	8	109	0.40%	3550
SUN0315-2900	1+64.68	TR-5794	SUN0315-2905	2+57.79	TR-5794	VCP	8	93	5.88%	3550
SUN0315-2885	6+58.39	TR-5794	SUN0315-2900	1+64.68	TR-5794	VCP	8	165	5.88%	3550
VHEELER PL										
RED0420-0325	2+96.00	TR-3574	RED0420-0330	5+75.66	TR-3574	VCP	8	280	0.70%	3545
RED0420-0320	3+04.08	TR-3574	RED0420-0325	2+96.00	TR-3574	VCP	8	300	1.60%	3545
RED0420-0230	8+22.07	AD-3A	RED0420-0235	11+63.30	AD-3A	VCP	8	341	1.00%	3545
RED0420-0225	5+12.23	AD-3A	RED0420-0230	8+22.07	AD-3A	VCP	8	310	1.00%	3545
RED0420-0220	2+02.39	AD-3A	RED0420-0225	5+12.23	AD-3A	VCP	8	310	0.24%	3545
RED0420-0215	12+65.58	7-4B	RED0420-0220	2+02.39	AD-3A	VCP	8	202	0.24%	3545
RED0395-0280	7+23.00	AD-3A	RED0395-0285	10+88.53	AD-3A	VCP	8	366	2.40%	3645 / 3545
RED0395-0275	3+60.00	AD-3A	RED0395-0280	7+23.00	AD-3A	VCP	8	363	1.00%	3645
RED0395-0270	3+17.00	AD-3A	RED0395-0275	3+60.00	AD-3A	VCP	8	360	0.40%	3645
RED0390-0385	9+25.00	AD-3A	RED0390-0390	12+70.00	AD-3A	VCP	8	345	0.60%	3445
RED0390-0380	4+50.00	AD-3A	RED0390-0385	9+25.00	AD-3A	VCP	8	475	0.60%	3445
RED0390-0335	61+10.00	2-17	RED0390-0380	4+50.00	AD-3A	VCP	8	450	1.00%	3545 / 3445
VHEMBLY DR										
SUN0480-0675	3+68.99	TR-5265	SUN0480-0680	6+93.99	TR-5265	VCP	8	325	4.56%	3648
VHITBY CIR										
RED0145-0080	1+31.02	RS-220	RED0145-0130	4+04.00	RS-220	VCP	8	404	0.40%	4044
VHITE SAND DR										
SUN0315-0905	6+46.00	TR-4331	SUN0315-0915	7+29.79	TR-4331	VCP	8	84	0.40%	3947
SUN0315-0900	4+29.80	TR-4331	SUN0315-0905	6+46.00	TR-4331	VCP	8	216	0.40%	3947
SUN0315-0875	2+85.80	TR-4331	SUN0315-0900	4+29.80	TR-4331	VCP	8	144	0.40%	3947
SUN0315-0810	4+68.00	TR-4520	SUN0315-0875	2+85.80	TR-4331	VCP	8	286	0.40%	3947
VHITESTONE TER										
HAT0000-0675	0+00.00	TR-4921	HAT0000-0725	2+20.00	TR-4921	VCP	8	220	0.40%	3551
VHITNEY DR										
SUN0415-0155	41+47.02	16-32	SUN0415-0570	3+88.00	TR-3041	VCP	8	388	0.40%	3547
* RED0455-0000	153+04.02	7-41	RED0455-0005	3+76.00	AD3B	VCP	8	376	0.68%	3546
RED0420-0320	3+04.08	TR-3574	RED0420-0335	0+04.00	TR-3574	VCP	8	300	0.40%	3545
RED0420-0270	0+04.00	TR-3574	RED0420-0320	3+04.08	TR-3574	VCP	8	96	0.33%	3545
RED0420-0280	9+16.61	TR-3574	RED0420-0285	12+24.94	TR-3574	VCP	8	309	0.32%	3545 / 3546
RED0420-0275	6+10.31	TR-3574	RED0420-0280	9+16.61	TR-3574	VCP	8	302	0.32%	3545
RED0420-0270	0+04.00	TR-3574	RED0420-0275	6+10.31	TR-3574	VCP	8	210	0.32%	3545
VICKFORD DR										
SUN0315-3645	4+85.56	TR-3732	SUN0315-3660	7+80.17	TR-3732	VCP	8	295	7.47%	3549
SUN0315-3640	2+46.00	TR-3732	SUN0315-3645	4+85.56	TR-3732	VCP	8	240	3.63%	3549
SUN0315-3635	9+79.75	TR-3731	SUN0315-3640	2+46.00	TR-3732	VCP	8	249	5.72%	3549
VICKSHIRE LN										
HAT0240-0045	2+48.79	TR-6628	HAT0240-0050	4+93.05	TR-6628	VCP	8	244	0.40%	3948 / 4048
HAT0240-0005	2+14.00	TR-6628	HAT0240-0045	2+48.79	TR-6628	VCP	8	248	0.40%	3948
HAT0240-0035	2+68.74	TR-6628	HAT0240-0040	5+13.53	TR-6628	VCP	8	245	1.60%	3948

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
HAT0240-0005	2+14.00	TR-6628	HAT0240-0035	2+68.74	TR-6628	VCP	8	269	2.88%	3948
VILDEVE LN										
RED0145-0180	4+01.00	RS-543	RED0145-0185	2+16.00	RS-543	VCP	8	216	0.40%	4045
RED0145-0175	1+05.00	RS-542	RED0145-0180	4+01.00	RS-543	VCP	8	401	0.40%	4045
VILLIS LN										
RED0625-0175	6+00.00	AD-8	RED0625-0180	9+15.00	AD-8	VCP	8	315	15.00%	3449 / 3349
RED0625-0170	3+50.00	AD-8	RED0625-0175	6+00.00	AD-8	VCP	8	250	8.00%	3449
RED0625-0070	0+00.00	AD-8	RED0625-0170	3+50.00	AD-8	VCP	8	350	4.44%	3449
VILLOW GLEN CIR										
SUN0430-0630	10+25.85	TR-9606	SUN0430-0635	13+25.85	TR-9606	VCP	8	300	1.08%	3351
SUN0430-0625	6+82.58	TR-9606	SUN0430-0630	10+25.85	TR-9606	VCP	8	343	3.72%	3351
SUN0430-0620	6+13.62	TR-9606	SUN0430-0625	6+82.58	TR-9606	VCP	8	69	12.20%	3351
SUN0430-0615	4+49.44	TR-9606	SUN0430-0620	6+13.62	TR-9606	VCP	8	164	14.32%	3351
SUN0430-0610	2+92.00	TR-9606	SUN0430-0615	4+49.44	TR-9606	VCP	8	157	13.20%	3351
SUN0430-0605	3+00.96	TR-9606	SUN0430-0610	2+92.00	TR-9606	VCP	8	192	7.64%	3351
VILLOW LN										
RED0360-0055	7+08.02	RS-215	RED0360-0130	9+58.63	RS-216	VCP	8	251	0.24%	3745
RED0360-0115	5+91.64	RS-226	RED0360-0120	1+00.00	S-583	VCP	8	71	0.40%	3745
RED0360-0055	7+08.02	RS-215	RED0360-0115	5+91.64	RS-226	VCP	8	345	0.40%	3745
RED0320-0070	7+25.05	RS-396	RED0320-0130	1+03.56	RS-396	VCP	8	99	0.66%	3745
VINDEMERE LN										
RED0145-0240	9+83.00	TR-6490	RED0145-0245	2+16.00	RS-543	VCP	8	63	1.25%	4045
RED0145-0180	4+01.00	RS-543	RED0145-0245	2+16.00	RS-543	VCP	8	216	0.40%	4045
RED0145-0235	7+38.00	TR-6490	RED0145-0240	9+83.00	TR-6490	VCP	8	245	0.40%	4045
RED0145-0230	4+88.00	TR-6490	RED0145-0235	7+38.00	TR-6490	VCP	8	250	0.40%	4045
VINDSOR LN										
SUN0315-1655	3+43.71	AD-4	SUN0315-1660	6+45.00	AD-4	VCP	8	301	0.40%	3848
SUN0315-1650	10+59.41	7-36	SUN0315-1655	3+43.71	AD-4	VCP	8	269	0.40%	3848
SUN0315-0145	97+70.17	7-36	SUN0315-1650	10+59.41	7-36	VCP	8	55	11.08%	3848
SUN0315-1310	3+01.58	AD-4	SUN0315-1315	5+91.58	AD-4	VCP	8	290	0.60%	3747
SUN0315-1305	21+78.02	AD-4	SUN0315-1310	3+01.58	AD-4	VCP	8	302	0.24%	3747
HAT0255-0105	10+21.20	AD-4	HAT0255-0130	12+11.20	AD-4	VCP	8	190	1.20%	3848
HAT0255-0100	7+22.38	AD-4	HAT0255-0105	10+21.20	AD-4	VCP	8	299	1.20%	3848
HAT0255-0095	3+49.40	AD-4	HAT0255-0100	7+22.38	AD-4	VCP	8	373	2.00%	3848
HAT0255-0090	1+91.69	AD-4	HAT0255-0095	3+49.40	AD-4	VCP	8	158	0.40%	3848
HAT0255-0085	4+27.00	AD-4	HAT0255-0090	1+91.69	AD-4	VCP	8	192	0.40%	3848
HAT0255-0080	2+89.00	AD-4	HAT0255-0085	4+27.00	AD-4	VCP	8	138	0.40%	3848
VINDSOR PL										
SUN0465-0085	6+76.00	AD-5A	SUN0465-0090	10+00.00	AD-2	VCP	8	324	0.24%	3747 / 3647
SUN0465-0080	3+36.00	AD-2	SUN0465-0085	6+76.00	AD-5A	VCP	8	340	1.08%	3747
SUN0465-0015	19+03.00	7-3B	SUN0465-0080	3+36.00	AD-2	VCP	8	336	1.08%	3747
VINNWOOD LN			11.11.00		·					
SUN0480-1355	7+01.23	TR-6137	SUN0480-1360	9+10.00	TR-6137	VCP	8	205	3.12%	3447

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0480-1350	4+99.67	TR-6137	SUN0480-1355	7+01.23	TR-6137	VCP	8	198	14.12%	3447
SUN0480-1345	1+25.00	TR-6137	SUN0480-1350	4+99.67	TR-6137	VCP	8	379	9.24%	3447
* SUN0480-0130	12+89.00	TR-6137	SUN0480-1345	1+25.00	TR-6137	VCP	8	121	8.04%	3447
WINTHROPE ST										
SUN0500-0035	4+48.23	TR-3991	SUN0500-0040	7+30.85	TR-3991	VCP	8	283	0.88%	3547
SUN0500-0030	1+72.23	TR-3991	SUN0500-0035	4+48.23	TR-3991	VCP	8	276	0.88%	3547
SUN0500-0025	14+14.56	7-3B	SUN0500-0030	1+72.23	TR-3991	VCP	8	175	0.88%	3547
SUN0480-0325	1+21.98	AD-3B	SUN0480-0330	3+21.98	AD-3B	VCP	8	200	0.40%	3647
SUN0480-0285	12+05.12	AD-3B	SUN0480-0325	1+21.98	AD-3B	VCP	8	122	0.48%	3647
SUN0480-0305	25+75.34	AD-3B	SUN0480-0310	29+36.00	AD-4	VCP	8	361	1.00%	3647
SUN0480-0300	21+92.52	AD-3B	SUN0480-0305	25+75.34	AD-3B	VCP	8	383	1.00%	3647
SUN0480-0295	18+12.52	AD-3B	SUN0480-0300	21+92.52	AD-3B	VCP	8	380	1.00%	3647
SUN0480-0290	14+37.00	AD-4	SUN0480-0295	18+12.52	AD-3B	VCP	8	376	1.80%	3647
SUN0480-0285	12+05.12	AD-3B	SUN0480-0290	14+37.00	AD-4	VCP	8	232	3.23%	3647
WISTERIA										
RED0320-0180	1+71.00	RS-245	RED0320-0190	1+25.00	RS-246	VCP	8	120	0.40%	3744
WISTERIA LN										
RED0360-0065	11+57.55	RS-215	RED0360-0090	13+63.19	RS-217	VCP	8	206	0.24%	3745
RED0360-0080	15+96.78	RS-225	RED0360-0085	2+03.88	RS-225	VCP	8	181	0.24%	3745
WOODBINE DR										
SUN0315-3545	2+20.70	AD-5A	SUN0315-3550	3+65.98	AD-3B	VCP	8	145	0.40%	3749
WOODGLEN DR										
SUN0480-0665	0+97.03	TR-5265	SUN0480-0670	4+22.03	TR-5265	VCP	8	325	1.22%	3648
WOODLAND DR										
HAT0205-0230	2+36.00	TR-3857	HAT0205-0235	4+76.00	TR-3857	VCP	8	240	0.24%	3947
HAT0205-0225	0+00.00	TR-3857	HAT0205-0230	2+36.00	TR-3857	VCP	8	236	0.24%	3947
HAT0205-0070	3+07.18	RS-261	HAT0205-0075	4+50.00	RS-261	VCP	8	143	0.32%	4047 / 3947
HAT0205-0065	0+04.00	RS-261	HAT0205-0070	3+07.18	RS-261	VCP	8	311	0.32%	4047
HAT0205-0045	8+00.00	AD-4	HAT0205-0050	11+98.00	AD-4	VCP	8	398	0.40%	3947
HAT0205-0040	4+00.00	AD-4	HAT0205-0045	8+00.00	AD-4	VCP	8	400	0.40%	3947
HAT0205-0030	3+27.67	AD-4	HAT0205-0040	4+00.00	AD-4	VCP	8	404	0.40%	3947
WOODLAWN AV										
SUN0315-2100	17+61.17	AD-5A	SUN0315-2135	18+03.81	AD-5A	VCP	8	43	4.48%	3749
SUN0315-2095	14+84.99	AD-5A	SUN0315-2100	17+61.17	AD-5A	VCP	8	276	1.21%	3749
SUN0315-2085	11+55.33	AD-5A	SUN0315-2095	14+84.99	AD-5A	VCP	8	330	1.64%	3748 / 3749
SUN0315-2080	8+25.33	AD-5A	SUN0315-2085	11+55.33	AD-5A	VCP	8	330	1.20%	3748
SUN0315-2065	4+95.33	AD-5A	SUN0315-2080	8+25.33	AD-5A	VCP	8	330	0.40%	3748
SUN0315-1900	340+59.46	7-3	SUN0315-2065	4+95.33	AD-5A	VCP	8	495	0.40%	3748
SUN0315-1765	6+35.99	AD-5A	SUN0315-1770	8+81.00	AD-5A	VCP	8	325	1.20%	3748
SUN0315-1760	3+10.99	AD-5A	SUN0315-1765	6+35.99	AD-5A	VCP	8	325	1.20%	3748
SUN0315-1725	8+05.03	7-12	SUN0315-1760	3+10.99	AD-5A	VCP	8	311	1.20%	3848 / 3748
SUN0315-1600	10+31.78	AD-4	SUN0315-1630	1+94.00	AD-4	VCP	8	194	2.20%	3848
SUN0315-1200	11+15.66	AD-4	SUN0315-1205	0+00.00	AD-4	VCP	8	262	0.87%	3847

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
SUN0315-1195	7+84.71	AD-4	SUN0315-1200	11+15.66	AD-4	VCP	8	331	2.60%	3847
SUN0315-1190	4+99.62	AD-4	SUN0315-1195	7+84.71	AD-4	VCP	8	285	1.80%	3847
SUN0315-1185	2+33.32	AD-4	SUN0315-1190	4+99.62	AD-4	VCP	8	266	0.40%	3847
SUN0315-1115	7+93.70	7-3E	SUN0315-1185	2+33.32	AD-4	VCP	8	233	0.40%	3847
SUN0315-0955	1+62.57	TR-4521	SUN0315-0995	2+45.00	TR-4521	VCP	8	245	0.32%	3947 / 3847
SUN0315-0980	7+69.65	TR-4521	SUN0315-0990	8+76.65	TR-4521	VCP	8	107	2.40%	3847
SUN0315-0975	4+89.65	TR-4521	SUN0315-0980	7+69.65	TR-4521	VCP	8	280	0.32%	3847
SUN0315-0995	2+45.00	TR-4521	SUN0315-0975	4+89.65	TR-4521	VCP	8	245	0.32%	3847
RED0180-0065	5+26.00	TR-4251	RED0180-0070	8+19.35	TR-4251	VCP	8	293	0.58%	4046
RED0180-0060	2+22.00	TR-4251	RED0180-0065	5+26.00	TR-4251	VCP	8	302	0.30%	4046
RED0180-0035	2+98.86	TR-4251	RED0180-0060	2+22.00	TR-4251	VCP	8	226	0.38%	4046
RED0105-0015	9+84.00	S-621	RED0105-0020	2+65.00	S-621	VCP	10	265	-0.40%	4244
REATH PL										
SUN0315-1050	2+68.50	AD-4	SUN0315-1055	4+40.00	AD-4	VCP	8	440	1.28%	3947
YNDHAM COURT RD										
SUN0315-3300	3+35.00	TR-4316	SUN0315-3310	1+18.44	AD-5A	VCP	8	317	5.60%	3749
SUN0315-3300	3+35.00	TR-4316	SUN0315-3305	6+63.00	TR-4316	VCP	8	330	5.00%	3749
SUN0315-0225	21+92.00	TR-4855	SUN0315-3300	3+35.00	TR-4316	VCP	8	330	3.20%	3749
RMOUTH RD										
SUN0315-3160	7+04.40	TR-4855	SUN0315-3165	8+71.10	TR-4855	VCP	8	167	3.88%	3650
SUN0315-3155	5+75.27	TR-4855	SUN0315-3160	7+04.40	TR-4855	VCP	8	129	12.08%	3650
SUN0315-3095	3+67.09	TR-4855	SUN0315-3100	5+16.67	TR-4855	VCP	8	150	0.80%	3650
SUN0315-3090	2+31.19	TR-4855	SUN0315-3095	3+67.09	TR-4855	VCP	8	136	0.92%	3650
SUN0315-3085	0+63.13	TR-4855	SUN0315-3090	2+31.19	TR-4855	VCP	8	168	5.80%	3550 / 3650
SUN0315-2800	14+06.59	TR-4855	SUN0315-3085	0+63.13	TR-4855	VCP	8	63	8.56%	3550
LLOWSTONE DR										
RED0420-0095	8+44.00	TR-4005	RED0420-0100	10+89.00	TR-4251	VCP	8	245	0.53%	3646
RED0420-0090	5+25.00	TR-4005	RED0420-0095	8+44.00	TR-4005	VCP	8	319	1.04%	3646
RED0420-0085	2+52.00	TR-4005	RED0420-0090	5+25.00	TR-4005	VCP	8	273	0.30%	3646
RED0420-0010	2+84.00	TR-4005	RED0420-0085	2+52.00	TR-4005	VCP	8	252	0.40%	3646
DLANDA WY										
HAT0160-0000	6+33.42	TR-5997	HAT0160-0005	2+13.00	TR-5997	VCP	8	213	3.16%	4147
DRBA										
RED0320-0095	6+17.00	RS-395	RED0320-0100	1+02.42	RS-395	VCP	8	77	0.66%	3744
ORBA ST										
RED0395-0205	2+54.00	RS-156	RED0395-0210	5+04.00	RS-156	VCP	8	250	0.40%	3645
RED0380-0060	6+02.84	RS-983	RED0380-0065	2+80.00	RS-983	VCP	8	312	0.58%	3744 / 3645
RED0380-0045	7+58.44	RS-1008B	RED0380-0060	6+02.84	RS-983	VCP	8	161	0.32%	3744
RED0380-0050	3+78.00	RS-1008A	RED0380-0055	6+50.27	RS-1008A	VCP	8	271	0.40%	3744
RED0380-0045	7+58.44	RS-1008B	RED0380-0050	3+78.00	RS-1008A	VCP	8	378	0.40%	3744
RED0320-0085	2+44.87	RS-395	RED0320-0110	1+28.00	RS-395	VCP	8	117	0.24%	3744
RED0320-0090	3+88.00	RS-395	RED0320-0105	1+10.49	RS-395	VCP	8	85	0.66%	3744
RED0320-0090	3+88.00	RS-395	RED0320-0095	6+17.00	RS-395	VCP	8	229	0.66%	3744

DOWNSTREAM MH	STATION #	PROJECT #	UPSTREAM MH	STATION #	PROJECT #	MATERIAL	DIA (in)	LEN (ft)	SLOPE	Map Page
RED0320-0085	2+44.87	RS-395	RED0320-0090	3+88.00	RS-395	VCP	8	143	0.66%	3744
RED0215-0265	6+89.81	RS-1002A	RED0215-0270	7+73.31	RS-1002A	VCP	8	80	0.80%	3844
RED0215-0260	6+78.50	S-117	RED0215-0265	6+89.81	RS-1002A	VCP	8	7	0.40%	3844
RED0215-0255	3+83.50	S-117	RED0215-0260	6+78.50	S-117	VCP	8	294	0.35%	3844
RED0215-0225	8+68.16	S-112	RED0215-0255	3+83.50	S-117	VCP	8	384	0.35%	3844
RED0215-0140	20+54.25	TR-5725	RED0215-0145	0+25.00	RS-390	VCP	8	169	0.60%	3844 / 3744
RED0215-0135	18+01.75	TR-5725	RED0215-0140	20+54.25	TR-5725	VCP	8	253	0.60%	3844
RED0215-0130	15+54.75	TR-5725	RED0215-0135	18+01.75	TR-5725	VCP	8	247	0.40%	3844
RED0215-0125	14+85.68	RS-308	RED0215-0130	15+54.75	TR-5725	VCP	8	69	0.40%	3844
IG ZAG WY										
SUN0315-1805	3+45.70	AD-5A	SUN0315-1810	6+09.70	AD-5A	VCP	8	264	2.60%	3748
SUN0315-1800	3+26.36	AD-5A	SUN0315-1805	3+45.70	AD-5A	VCP	8	346	0.60%	3748
SUN0315-1795	4+43.50	AD-5A	SUN0315-1800	3+26.36	AD-5A	VCP	8	326	0.32%	3748
SUN0315-1745	18+01.72	7-6-7	SUN0315-1795	4+43.50	AD-5A	VCP	8	444	2.68%	3748



Exhibit "A"

EXHIBT "C"

AGREEMENT FOR PURCHASE OF CAPACITY IN IRWD'S HARVARD AVENUE TRUNK SEWER



Agreement for Purchase of Capacity in the Irvine Ranch Water District (IRWD) Harvard Avenue Trunk Sewer

THIS AGREEMENT, is made and entered into, to be effective this 10th day of June , 1991, by and between COUNTY SANITATION DISTRICT NO. 7 of ORANGE COUNTY, CALIFORNIA, hereinafter referred to as "CSD 7", and IRVINE RANCH WATER DISTRICT OF ORANGE COUNTY, CALIFORNIA, hereinafter referred to as "IRWD".

WHEREAS, CSD 7 is a duly organized County Sanitation District of Orange County, existing pursuant to the County Sanitation District Act, California Health and Safety Code, Sections 4700, et seq., providing for the ownership, operation and maintenance of wastewater collection, treatment and disposal facilities, individually and collectively, with County Sanitation Districts of Orange County Nos. 1, 2, 3, 5, 6, 11, 13, and 14 pursuant to a Joint Ownership, Operation and Construction Agreement, effective July 1, 1985; and

WHEREAS, IRWD is organized and existing pursuant to the California Water District Act, California Water Code, Sections 34000, et seq., and also owns, operates and maintains wastewater collection, treatment and disposal facilities pursuant to powers granted by such Act; and

WHEREAS, CSD 7 is presently serving flows generated from the easterly side of the Tustin Hills which would otherwise drain to Peters Canyon Wash, and are now pumped westerly over the hills through ten (10) pump stations as shown in Exhibit A, which is attached hereto and incorporated herein by this reference; and

WHEREAS, the development of the East Tustin area within the City of Tustin and IRWD could allow those pump stations to be abandoned over a period of years and the wastewater to drain by gravity to IRWD's Harvard Avenue Trunk Sewer (HATS) utilizing IRWD laterals, and

WHEREAS, in addition to the areas served by the East Tustin pump stations, there are certain areas within District No. 7, which by their proximity to IRWD and elevation could also sewer to HATS; and

WHEREAS, the parties have determined that such flow can best be handled by an accommodation agreement between the parties under which such flows are directed into HATS, and then directed, to County Sanitation Districts of Orange County (CSDOC) joint treatment facilities; and WHEREAS, CSD 7 wishes to purchase, and IRWD agrees to sell capacity in the HATS for the aforementioned flows.

NOW, THEREFORE, the parties hereto agree as follows:

Section 1: Purchase of Trunk Sewer Capacity

Subject to the satisfaction of the payment obligations set forth in this Section 1, IRWD hereby sells, and CSD 7 hereby purchases, capacity in the various reaches of the HATS and HATS subtrunks as delineated in Exhibit B, which is attached hereto and incorporated herein by this reference. Capacity in the completed reaches of the HATS delineated in Exhibit B will be conveyed to CSD 7 for the purchase price of \$1,879,448.27, as delineated in Exhibit C. The amount shall be due and payable to IRWD within sixty (60) days after the execution of this Agreement representing completed portions of HATS.

It is expressly understood that Reach 11 is currently out to bid, and will not be completed prior to the execution of this agreement. After completion of construction, CSD 7 will purchase capacity in Reach 11. The price of said capacity in Reach 11 shall be determined at that future date per the formula delineated in Exhibit C, and shall be due and payable to IRWD within sixty (60) days of receipt of an invoice to be prepared and sent by IRWD following the filing of a notice of completion of the respective reach. The estimated cost of CSD 7 capacity in Reaches 11 is \$135,000.00. The County Sanitation Districts of Orange County General Manager, or his designee, may approve payment for the CSD 7 proportion of the construction amount not to exceed 125% of this estimated amount.

Section 2: Location of Pumping Plants and Capacity

The breakdown of the reaches of the HATS system and the capacity to be purchased by CSD 7 in each reach and the CSD 7 pump stations to be abandoned, are shown on Exhibit B.

Section 3: CSD 7 Responsibility for Share of IRWD Sewer Collection System Operation and Maintenance Expenses

CSD 7 shall be responsible for its proportionate share of IRWD Sewer Collection System operation and maintenance expenses for the annual operation and maintenance of the reaches of HATS. The annual operation and maintenance expenses will be calculated

based on the following equation:

CSD7L/TL X CSD7C/TC X TO&MC = CSD 7 Share of IRWD O&M

Where:

CSD7L = Total Length of HATS Used by CSD 7**

TL = Total Length of IRWD Sewer System **

CSD7C = Total Maximum Average Capacity Owned by CSD 7 in HATS

TC = Total Average Capacity of HATS Sewer

TO&MC = Total IRWD O&M Cost of Total IRWD Sewer System

IRWD will invoice CSD 7 for operation and maintenance costs at the end of each maintenance cycle based on IRWD's formula and the attached Exhibit C which provides a sample calculation. All operation and maintenance expenses will be due within sixty (60) days of the date of the invoice. In addition to the proportionate share of annual IRWD Sewer Collection System operation and maintenance costs delineated above, CSD 7 will be responsible for its proportionate share of all repair, replacement, and maintenance costs specifically identified as costs incurred to repair, replace, or maintain the HATS.

Section 4: Credit to COUNTY SANITATION DISTRICT NO. 14 (CSD 14) for Flows Generated by CSD 7

Pursuant to existing agreements, CSD 14 pays the County Sanitation Districts of Orange County for transporting and treating flows from CSD 14. In quantity calculations, CSD 14 will be credited for actual CSD 7 flows delivered to HATS. In order to determine actual flows to be credited to CSD 14, CSD 7 agrees to install adequately sized temporary flow meters at all connections to the HATS for a period of not less than 7 days, once a year, on the anniversary of the connection, or as requested by CSD 14. The total of the actual meter readings from these temporary meters will be deducted from the total meter reading at the Main Street Pump Station for each month flow is received from CSD 7 into the HATS.

Section 5: IRWD Responsibility for HATS and Subtrunk Construction

IRWD shall be solely responsible for the preparation of, and award of, the necessary contracts for the construction of any subtrunk sewers tributary to the HATS that are necessary to service CSD 7 flows upon abandonment of the various pump stations. In this section "subtrunks" shall be understood to be those IRWD collector sewers connected to the HATS which will be constructed with laterals to which CSD 7 sewers shall actually be

^{**}Expressed as equivalent 12-inch sewer pipe.

connected. Toward this end, IRWD shall be responsible for the preparation of all legal documents for such contracts, including notice regarding bids, instructions to bidders, and related construction agreements, surety bonds and insurance certificates. IRWD shall be solely responsible for the administration and performance of the contracts awarded to contractors for construction of the HATS and subtrunks to HATS.

Section 6: CSD 7 Responsibility for Connector Facilities Construction

CSD 7 shall be solely responsible for the preparation and award of all necessary contracts for the construction of the necessary facilities to connect CSD 7 sewer lines, conveying CSD 7's flows, to the laterals provided on the HATS or IRWD subtrunks upon abandonment of the various pump stations, and/or areas in CSD 7 which could be served by the HATS. Toward this end, CSD 7 shall be responsible for the preparation of all legal documents for such contracts, including notice regarding bids, instructions to bidders, related construction agreements, surety bonds and insurance certificates, necessary permits, and easements or other required right-of-way. CSD 7 shall be solely responsible for the administration and performance of the contracts awarded to Contractors for such connector sewer lines. CSD 7 agrees that prior to any connections to the HATS, CSD 7 will submit plans for the connections to IRWD for approval prior to construction of the connections. In addition, CSD 7 agrees to pay all necessary fees for IRWD inspection during construction of the connections.

Section 7: Ownership of Facilities

Except for the capacity rights sold to CSD 7, IRWD shall remain the sole owner of the HATS and subtrunks. CSD 7 shall be the sole owner of all facilities built to connect CSD 7 flows to the HATS and subtrunks. It is expressly understood that the capacity rights sold to CSD 7 are not transferrable.

Section 8: Environmental Impact Reports

IRWD shall act as lead agency for the processing of environmental impact assessments, studies, reports, and award of contracts and shall be responsible for full compliance with the provisions of the California Environmental Quality Act (CEQA) for any construction related to expansion of the HATS. CSD 7 shall act as lead agency for the processing of environmental assessments, studies, reports, and award of contracts and shall be responsible for full compliance with the provisions of CEQA for any construction necessary to connect CSD 7 flows to the HATS.

Section 9: Waiver of Claims

CSD 7 and IRWD hereby waive all claims and demands against each other for any loss, damage or injury of any kind or character to any person or property, arising out of activities pursuant to this agreement, or arising from any act or omission of CSD 7's or IRWD's respective agents or employees, except to the extent occasioned by the sole negligence or willful misconduct of the other party or its agents or employees.

Section 10: Entire Agreement

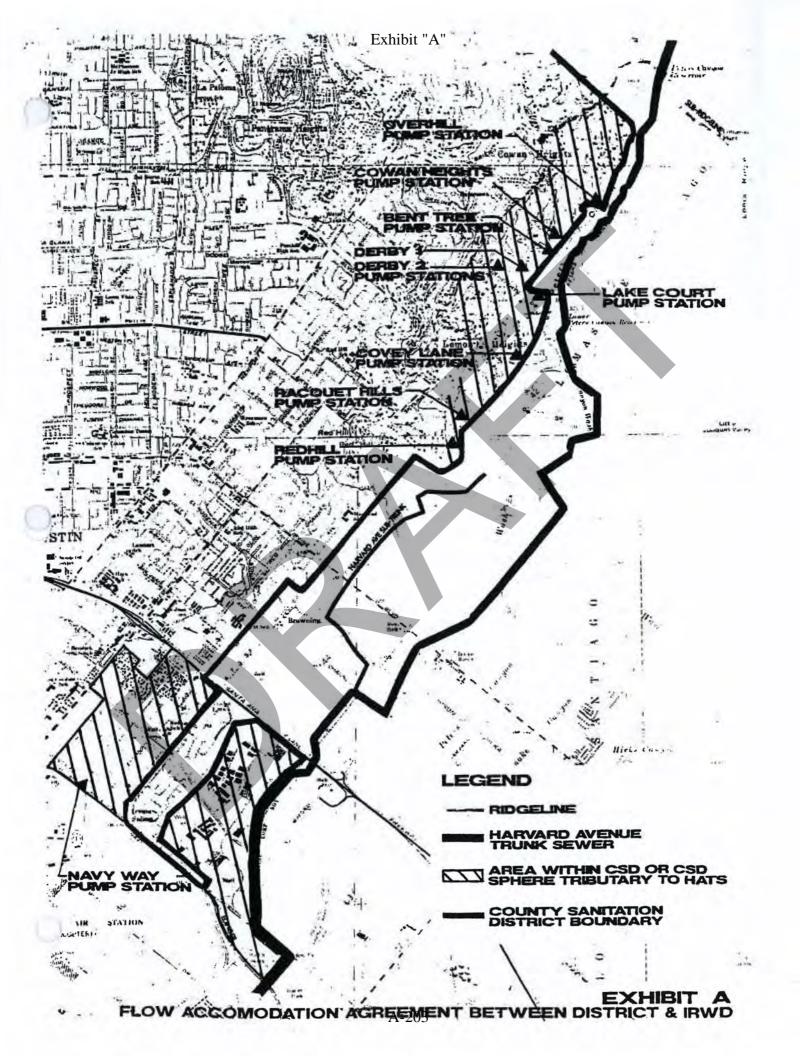
This instrument contains the entire agreement between the parties relating to the rights herein granted and the obligations herein assumed. Any prior agreements or representations not expressly set forth herein are of no force and effect.

Section 11: Wastewater Discharge Requirements

IRWD may construct facilities in the future to enable it to direct all or a portion of flow in HATS to either its Michelson Water Reclamation Plant (MWRP) or CSDOC's joint treatment facilities, in accordance with the modes of operation which IRWD may employ from time to time. When the contract for the construction of those facilities is awarded by IRWD, CSDOC will initiate the necessary procedures to ensure that following completion of any such facilities IRWD's sewer discharge requirements, as contained in its "Rules and Regulations for Water, Sewer, and Reclaimed Water Service", as amended from time to time, and its implementing policies and procedures ("IRWD's Ordinance") shall be applicable and enforceable within areas discharging to HATS, including areas within CSD 7 discharging flows to HATS, and that such areas will be governed by the "Memorandum of Understanding Between County Sanitation District No. 14 of Orange County, California and Irvine Ranch Water District Governing Industrial Waste Program Administration", dated February 11, 1987. CSDOC agrees to have those procedures in place before the diversion of flows from HATS to IRWD's MWRP begins.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the day and year first above written.

	COUNTY SANITATION DISTRICT NO. 7
"CSD 7"	ORANGE COUNTY, CALIFORNIA
Reco	ommended By: Whomes makerwes
Nece	Director of Engineering
Reco	ommended By:
	Director of Finance
APPROVED AS TO FORM:	By: Marlo 25 mckel
200	Chairman
CSDOC Legal Counsel	
Odeller	000
ву:	By: Secretary
U	becreeary
"IRWD"	INVINE RANCH WATER DISTRICT
	2011
APPROVED AS TO FORM:	By: - Ruelsel
	Peer Swan Vice President
	VICE PLESIDENC
BOWIE, ARNESON, KADI & DIXO	ON
IRWD Legal Counsel	4
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By: / Joan ! Urn	By: Belle Huheler
7	Betty Wheeler
/	Secretary



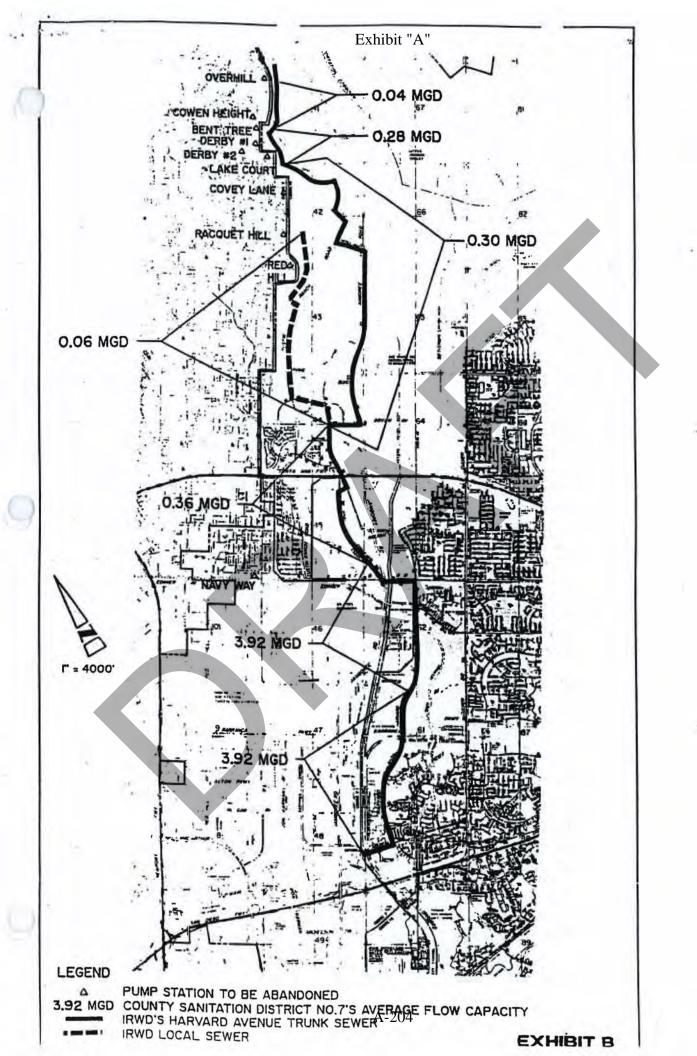


EXHIBIT "C" to Agreement to Purchase of Capacity in IRMD Harvard Avenue Trunk Sewer HATS TRUNK SEWER COST BREAKDOWN

Date prepared: February 11, 1992 LA ENR = 6093.65 As of January 13, 1992

Average

Reach	Project	Total Length Equiv. 12-in.	Portion	Total Project	Reach Cap	pacity (mgd)	Month/Yr Mid-Point	ENR a Mid- Point of	Cost/Avg. MGD Indexed	CSDOC Capacity	TOTAL
No.	Nos.	Pipe (Feet)	Reach (A)	Cost (B)	Peak (1)	(D)	of Const. (E)	Const. (F)	to ENR a MPC	(cfs) (H)	COST (I)
FORMUL			********			(C/1.78)^(1.087)		**********	(B/D)*(LA ENR/F)*A		H*G
							******		(D/D) (LA LAK) I) A		
1	20303.1	31,114.50	1.00	\$726,479	53.62	40.50	May 1986	5446.69	\$20,066	3.92	\$78,659
2.	20303.2	8,417.50	1.00	\$1,025,528	53.62	40.50	Aug 1986	5452.15	\$28,298	3.92	\$110,926
3	22012	106,413.75	1.00	\$1,897,640	24.22	17.07	Feb 1986	5446.69	\$124,342	3.92	\$487,419
4	22011										
	22020	123,157.00	.69	\$4,774,417	22.87	16.04	Mar 1987	5454.37	\$229,422	3.92	\$899,333
	22021	55,331.25	.31	\$2,145,028	22.90	16.07	Mar 1987	5454.37	\$46,242	.56	\$25,896
5	22060 21392	50,792.56	1.00	\$3,098,881	18.70	12.89	Jun 1987	5454.42	\$268,592	.56	\$150,411
6	21350 21366	5,213.69	1.00	\$595,102	5.28	3.26	Jul 1987	5454.52	\$203,909	.09	\$18,352
7	21360	3,914.19	1.00	\$185,625	2,33	1.34	May 1988	5644.03	\$149,562	.09	\$13,461
7.5	40195 50155 62098	5,007.00	1.00	\$36,113	2.30	1.32	SEP 1989	5766.77	\$28,881	.09	\$2,599
8	21372 21380	32,872.06	1.00	\$1,006,080	14.86	10.04	Mar 1988	5644.03	\$108,189	.46	\$49,767
9	21385	9,868.00	1.00	\$388,449	9.37	6.08	Feb 1989	5770.84	\$67,442	.46	\$31,023
10	21371	2,000.00	.20	\$1,330,151	16.28	11.09	APR 1990	5797.00	\$25,222	-46	\$11,602
11	21370	38,800.00	.33	OUT TO BID	15.60	10.58				.06	\$0
Total	Length =	472,901.50 f	t.								\$1,879,448

EXHIBIT "D" OCSD SERVICE AREA 7 SEWAGE FLOWS



