

**City of Oakley**  
**ADDENDUM NO. 1 to contract documents for**  
**LAUREL ROAD AND ROSE AVENUE INTERSECTION IMPROVEMENT**  
**AND SIGNALIZATION PROJECT, CIP # 191**

**BID OPENING DATE: January 17, 2019 2:00 PM**

Notice is hereby given that the following clarifications and revisions are made to the above referenced contract documents:

**Updates to the Plans and Specifications:**

SPECIFICATIONS

Part I,

- Updated **A. Unit Price Schedule**, pg. 5, 6, & 7, revised Bid Item No. 13, 14, and 21 "Adjust Utilities to Grade", Quantity and Unit of Measurement. Added Bid Item No. 22 & 23

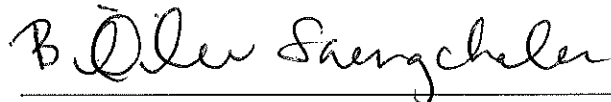
Part III,

- Revised **Section 10-1.16**, pg. 43, Lowering and Adjusting Existing Utility Facilities to Grade, Measurement and Payment
- Revised **Section 10-1.18**, pg. 59 & 60, Traffic Signals, Measurement and Payment
- Revised **Section 10-1.20**, pg. 67, DWD Water Line Relocations and Installations, Measurement and Payment
- Revised **Section 10-1.23**, pg. 99, Lighting and Electrical Systems, Measurement and Payment

PLANS

Updated Sheets CD-3, Q-1, U-1 thru U-6, E-1 and E-2

All bidders shall acknowledge receipt and acceptance of Addendum No. 1 by signing in the space provided at the end of this Addendum and submitting the signed addendum with their proposal.



Billilee Saengchalern  
Associate Engineer  
January 7, 2019

\_\_\_\_\_  
Contractor Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Company Name

received notice from the City that the contract has been awarded, City may, at its option, determine that the bidder has abandoned the contract and thereupon this proposal and the acceptance thereof shall be null and void and the forfeiture of such security accompanying this proposal shall operate and the same shall be the property of the City of Oakley.

**A. UNIT PRICE SCHEDULE**

The undersigned, Pursuant to and in compliance with your Notice to Contractors and the Contract Documents relating to the **LAUREL ROAD AND ROSE AVENUE INTERSECTION IMPROVEMENT AND SIGNALIZATION PROJECT**, including Addenda No. \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, as Bidder, declares that the only persons or parties interested in this proposal as principals are those named herein; that this proposal is made without collusion with any other person, firm, or corporation; that he has carefully examined the location of the proposed work, the annexed proposed form of contract, and the plans therein referred to; and he proposes and agrees if this proposal is accepted that he will contract with the City of Oakley in the form of the scope of the contract annexed hereto, to provide all necessary machinery, tools, apparatus, and other means of construction, and to do all the work and furnish all the materials specified in the contract, in the manner and time therein prescribed, and according to the requirements of the Engineer as therein set forth, and that he will take in full payment therefore the following item prices, to wit:

**BID ITEMS**

ITEM NO.	DESCRIPTION OF ITEM	SPEC SECT.	EST. QTY	U/M	UNIT PRICE	TOTAL
1	Mobilization (10% of Bid Items)	10-1.02	1	LS		
2	Traffic Control System and Construction Area Signs	10-1.03	1	LS		
3	Storm Water Pollution Control Program	10-1.05	1	LS		
4	Site Demolition	10-1.07	1	LS		
5	HMA (TYPE A)	10-1.08	2,150	TON		
6	RHMA-G	10-1.09	635	TON		
7	2" AC Grind	10-1.11	640	SY		
8	Conform Grind	10-1.11	1,610	LF		
9	City Standard Sidewalk	10-1.12	5,915	SF		
10	City Standard Driveway	10-1.12	190	SF		
11	City Standard Curb & Gutter	10-1.12	1,080	LF		
12	City Standard Vertical Curb	10-1.12	1,270	LF		

ITEM NO.	DESCRIPTION OF ITEM	SPEC SECT.	EST. QTY	U/M	UNIT PRICE	TOTAL
13	Curb Ramp (Caltrans Case A)	10-1.12	4	EA		
14	Deepened Curb	10-1.12	550	LF		
15	PCC Maintenance Band	10-1.12	2,038	SF		
16	Redwood Header	10-1.13	120	LF		
17	Aggregate Base (CL-2)	10-1.14	1,650	CY		
18	Roadway Excavation	10-1.15	1,500	CY		
19	Common Excavation	10-1.15	3,330	CY		
20	Common Backfill	10-1.15	150	CY		
21	Adjust Utility Boxes to Grade	10-1.16	1	EA		
22	Adjust Utility Valve Boxes to Grade	10-1.16	8	EA		
23	Remove and Replace Utility Valve Box Cover	10-1.16	1	EA		
24	New City Standard Inlet	10-1.17	3	EA		
25	18" HDPE SD Pipe	10-1.17	565	LF		
26	12" HDPE SD Pipe	10-1.17	20	LF		
27	New Traffic Signal	10-1.18	1	LS		
28	Signing and Striping	10-1.19	1	LS		
29	1" Irrigation Water Service (DWD-Revocable)	10-1.20	1	EA		
30	1" Water Service (DWD-Revocable)	10-1.20	1	EA		
31	Relocate Air Release Valve (DWD-Revocable)	10-1.20	2	EA		
32	Landscape Planting (City)	10-1.21	1	LS		
33	Landscape Planting (Aspen)	10-1.21	1	LS		
34	Landscape Irrigation (City)	10-1.22	1	LS		
35	Landscape Irrigation (Aspen)	10-1.22	1	LS		
36	Lighting and Electrical Systems	10-1.23	1	LS		
37	Bioretention Areas	10-1.24	8,200	SF		
38	Soundwall	10-1.25	155	LF		

City shall have the right to remove Bid Items 29, 30, 31 from the contract scope of work and have those items of work performed by Diablo Water District's (DWD) contractor. City's

contractor shall coordinate and provided for DWD's contractor to perform traffic control and perform the work indicated in Bid Items 29, 30 and 31 that may have been removed. City's contractor shall provide ten (10) consecutive calendar days working period, for DWD's contractor to perform the work in Bid Items 29, 30 and 31, if the bid item work is performed by DWD's contractor. In the event DWD's contractor performs the work in Bid Items 29, 30 and 31, DWD's contractor shall be responsible for the AC patch paving around the valve cans. City's contractor shall not be entitled to any additional time extension or compensation, including overhead or profit, in the event any of Bid Items 29, 30 and 31 are removed from the project scope and the amounts entered in the Bid Schedule for the remainder of the work shall remain unchanged. City shall notify City's contractor if it will be removing any of the items from the scope of work within ten (10) working days after the Notice of Rework.

**Total Bid (Items 1-38) \$ \_\_\_\_\_**  
**(Numbers)**

\_\_\_\_\_ **Dollars**  
**(Written)**

The Laurel Road and Rose Avenue Intersection Improvement and Signalization Project requires bids to include prices for items that may be added to or deducted from the scope of the work in the contract for which the bid is being submitted.

Pursuant to the Public Contract Code § 20103.8c the lowest bid shall be "the lowest total of the bid prices on the base contract and those additive or deductive items that when taken in order from a specifically identified list of those items in the solicitation, and added to, or subtracted from, the base contract, are less than, or equal to, a funding amount publicly disclosed by the local agency before the first bid is opened." In this case, the funding amount publically disclosed is the Engineer's Estimate, which totals \$2,590,000.

facilities shall be raised if the paving operation ceases for more than 72 hours as approved by the engineer.

#### Survey Monuments

Where new survey monument boxes and covers are required, the Contractor shall perform the installation without disturbing the location of the monument. If the monument is disturbed the Contractor will be responsible for re-establishing it as a monument in accordance with State laws. The work for placement of the box and cover over an existing monument will include removal and replacement of the hot mix asphalt around the monument.

#### Monitoring Wells

Where monitoring wells are to be overlaid, the location of the wells shall be marked on the curbs. A site sketch shall be provided to the city indicating the location and distances on the monitoring wells relative to the curb markings five days prior to paving. If the monitoring wells have frames and covers, the frames and covers shall be adjusted as part of this work.

### **MEASUREMENT AND PAYMENT**

Facilities to be lowered prior to cold planing and adjusted to finish grade after paving operations shall include, but not be limited to, manholes, water valves, gas valves, and survey monument covers. The unit costs shall govern regardless of the method used to make the adjustments.

ADJUST UTILITY BOXES TO GRADE shall be at the cost indicated in the Bid Schedule. The contract price paid per-each basis for ADJUST UTILITY BOXES TO GRADE shall include, but is not limited to, full compensation for furnishing all labor, materials, tools, equipment, and incidentals required for doing all the work involved in adjusting utility boxes to grade, including excavation and backfill, lowering for pavement grinding operation, complete in place, as shown on the Plans, as specified in the Standard Specifications, these Technical Specifications and the Special Provisions, and as directed by the Engineer. Additionally, no payment will be made for work, equipment, or materials not covered in these plans and specifications, but necessary to insure a completed project as specified.

ADJUST UTILITY VALVE BOXES TO GRADE shall be at the cost indicated in the Bid Schedule. The contract price paid per-each basis for ADJUST UTILITY VALVE BOXES TO GRADE shall include, but is not limited to, full compensation for furnishing all labor, materials, tools, equipment, and incidentals required for doing all the work involved in adjusting utility valve boxes to grade, including excavation and backfill, lowering for pavement grinding operation, complete in place, as shown on the Plans, as specified in the Standard Specifications, these Technical Specifications and the Special Provisions, and as directed by the Engineer. Additionally, no payment will be made for work, equipment, or materials not covered in these plans and specifications, but necessary to insure a completed project as specified.

REMOVE AND REPLACE UTILITY VALVE BOX COVER shall be at the cost indicated in the Bid Schedule. The contract price paid per-each basis for REMOVE AND REPLACE UTILITY VALVE BOX COVER shall include, but is not limited to, full compensation for furnishing all labor, materials, tools, equipment and incidentals required for doing all the work involved in removing and replacing utility valve box cover including excavation and backfill, lowering for pavement grinding operation, complete in place, as shown on the Plans, as specified in the Standard Specifications, these Technical Specifications and the Special Provisions, and as directed by the Engineer. Additionally, no payment will be made for work, equipment, or materials not covered in these plans and specifications, but necessary to insure a completed project as specified.

New conductors for traffic signal equipment shall not be spliced.

Conductors shall not be pulled into conduits until the pull boxes have been set to grade, rock sumps have been installed, and conduits have been bonded and grounded. A continuous No. 8 ground shall be installed in all conduits. All pullboxes shall be inspected and approved prior to pulling any conductors. Conductors shall not be pulled into conduits unless the Engineer is present to observe the operation. The ends of all unused cables shall be sealed.

#### Model 2070 Controller Assembly

Model 2070 Controller Assembly components will be furnished by the City. The contractor shall pick up City furnished materials at the City maintenance yard at 3231 Main Street, Oakley, CA.

#### Pedestrian Signals (Countdown)

Gaskets for the mounting of pedestrian signal heads shall be installed on the outside of the housing to provide a watertight seal, and the Contractor shall take extra care to ensure that the gaskets are properly installed.

#### Video Detection System

The contractor shall arrange to have a technician, qualified to work on the video detection system and employed by the Video detection manufacturer or his/her representative present to setup and configure the System. The City Transportation Engineer shall be notified prior to completion of Video Detection System installation at the intersection. All Video Detection System equipment installation, cable termination, connections, camera alignment procedures, system setup, configuration, and programming of detector zones shall be completed prior to or during the pre turn-on work.

The manufacturer shall supply two sets of operation and installation manuals.

The Video Detection System shall be provided with a standard 3 year warranty.

#### Potholing

The Contractor shall conduct exploratory excavations by potholing to verify or to discover the actual locations and the size of existing underground utilities and improvements. Potholing shall be done at each proposed location of signal poles to occur at least fourteen (14) calendar days in advance of any excavation or construction in that area, to avoid possible delay in the progress of the Work.

The Contractor's proposed method of potholing and schedule for potholing shall be submitted to the Engineer for approval, at least one week prior to the commencement of operation. Any utilities damaged during potholing shall be immediately reported to the Engineer and repairs made immediately in accordance with the requirements of this Contract.

### **MEASUREMENT AND PAYMENT**

NEW TRAFFIC SIGNAL shall be at the cost indicated in the Bid Schedule. The contract lump sum price paid for NEW TRAFFIC SIGNAL shall include, but is not limited to, full compensation for furnishing all labor, materials, tools, equipment, testing, and incidentals, including foundations, poles, mast arms, signal and pedestrian heads, luminaires, conduits, conductors, pull boxes, video detection systems, controller cabinet assembly, interconnect cable, service to irrigation controller, and all other required equipment for the intended operation of the signal, and for doing

all the work involved in completing traffic signal work as shown on the Plans, and as specified in the Standard Specifications and these Technical Provisions, and no additional compensation will be allowed.



## **MEASUREMENT AND PAYMENT**

Contractor agrees to accept as full payment for water line and appurtenances compensation set forth in the project contract documents, which include all costs for labor, materials, tools equipment, services, all taxes (federal, state, and local), insurance and permits, royalties, overhead, profit, warranty performances and other costs necessary to perform the work in accordance with Contract Documents.

1" IRRIGATION WATER SERVICE (DWD-REVOCABLE) shall be at the cost indicated in the Bid Schedule. The contract prices paid per-each for 1" IRRIGATION WATER SERVICE (DWD REVOCABLE) shall include, but is not limited to, full compensation for furnishing labor, materials, tools, equipment and incidentals and for doing all the work involved with installing new water lines, water meter, and backflow preventer, including pipe, pipe connections, valves, valve boxes, trenching and excavation, backfill, thrust blocks, cathodic protection, tapping, testing, and pavement restoration to finish grade, as specified herein, as shown on the plans, as specified in the Standard Specifications, these Technical Specifications and the Special Provisions, and as directed by the Engineer. Additionally, no payment will be made for work, equipment, or materials not covered in these plans and specifications, but necessary to insure a completed project as specified.

1" WATER SERVICE (DWD-REVOCABLE) shall be at the cost indicated in the Bid Schedule. The contract prices paid per-each for 1" WATER SERVICE (DWD REVOCABLE) shall include, but is not limited to, full compensation for furnishing labor, materials, tools, equipment and incidentals and for doing all the work involved with installing new water lines, meter boxes, double check valve backflow preventer boxes, including pipe, pipe connections, valves, valve boxes, trenching and excavation, backfill, thrust blocks, cathodic protection, tapping, testing, and pavement restoration to finish grade, as specified herein, as shown on the plans, as specified in the Standard Specifications, these Technical Specifications and the Special Provisions, and as directed by the Engineer. Additionally, no payment will be made for work, equipment, or materials not covered in these plans and specifications, but necessary to insure a completed project as specified.

RELOCATE AIR RELEASE VALVE (DWD-REVOCABLE) shall be at the cost indicated in the Bid Schedule. The contract unit prices paid per-each for RELOCATE AIR RELEASE VALVE (DWD-REVOCABLE) shall include, but is not limited to, full compensation for furnishing all labor, materials, tools, equipment and incidentals required for doing all the work involved with relocating air release valves, including pipe, pipe connections, pipe relocations, valves, valve boxes and enclosures, testing, trenching and excavation, backfill, thrust blocks, cathodic protection, hot tapping, pavement restoration to finish grade, and removal of existing air release valve with enclosure as shown on the Plans, as specified in the Standard Specifications, these Technical Specifications and the Special Provisions, and as directed by the Engineer. Additionally, no payment will be made for work, equipment, or materials not covered in these plans and specifications, but necessary to insure a completed project as specified.

### Field Tests

Field tests shall conform to Section 87-1.01D(2), "Quality Control," of the Standard Specifications except as modified herein.

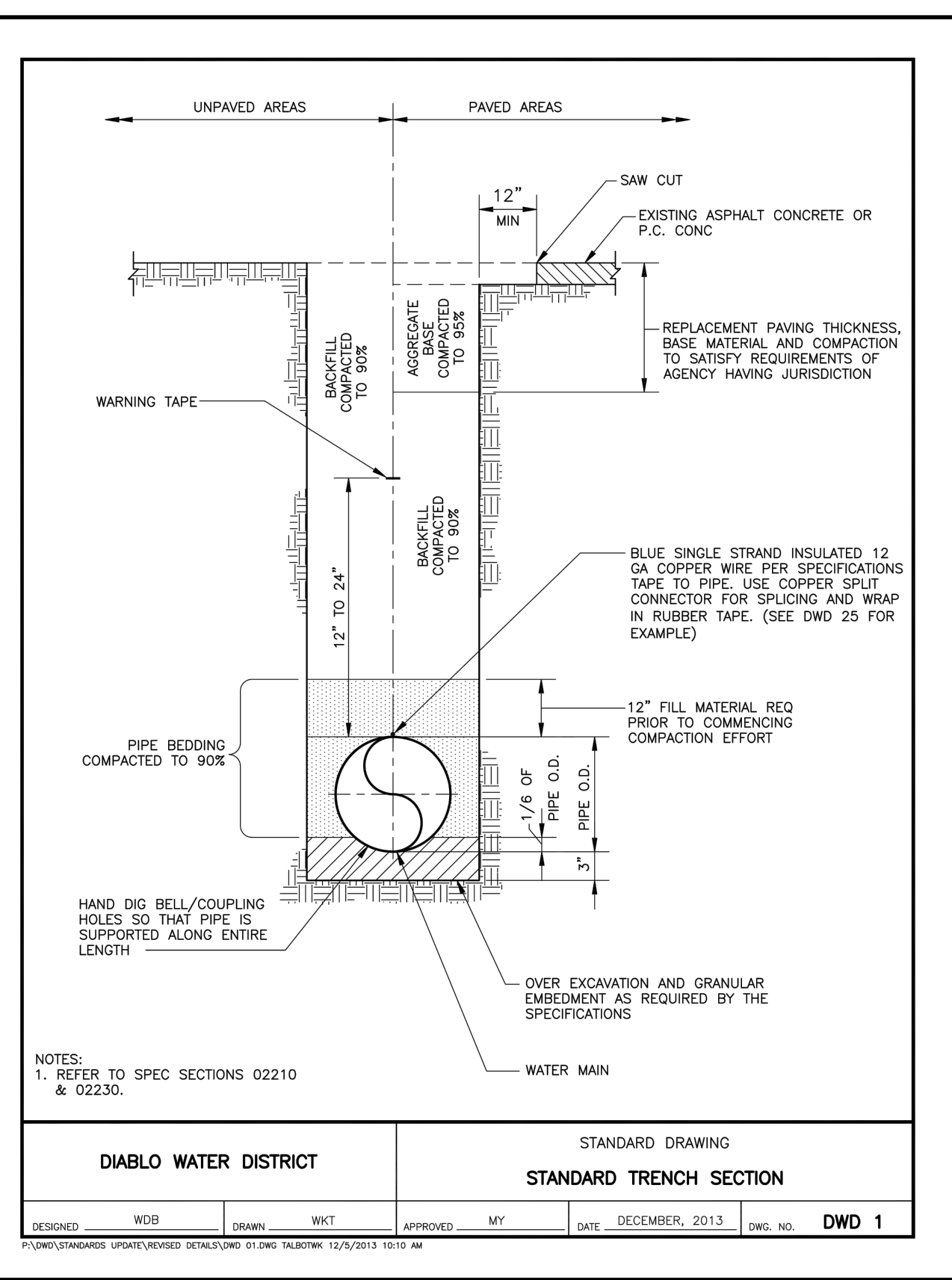
The Contractor shall be responsible for maintaining the lighting system during the functional test period. Payment for testing shall be the responsibility of the Contractor.

### Pole Identification Plates

The City Engineer will assign pole identification numbers as required. The Contractor shall furnish and install pole identification plates at the request of the City and as indicated in the City of Oakley Standard Plans, and as directed by the City Engineer.

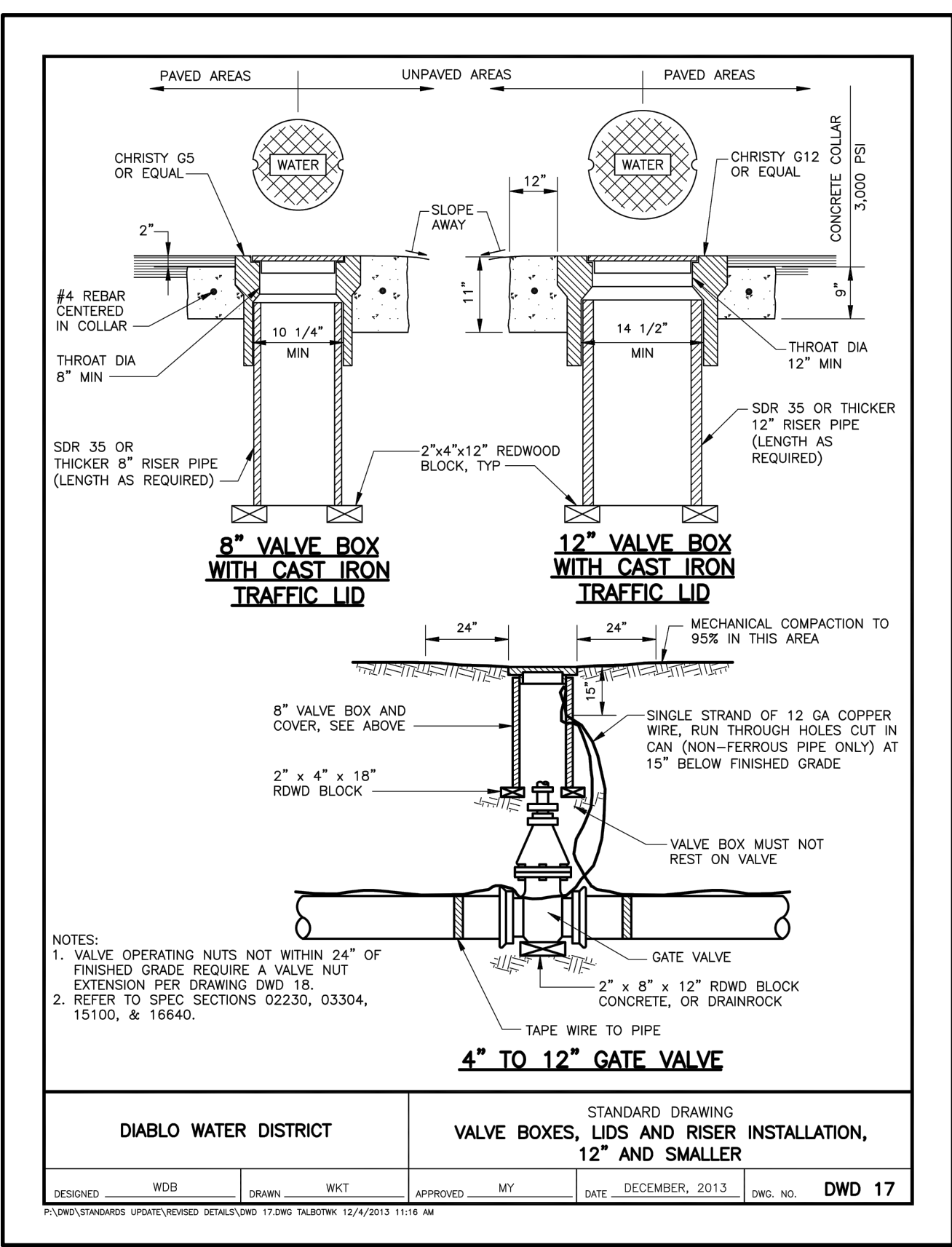
## **MEASUREMENT AND PAYMENT**

LIGHTING AND ELECTRICAL SYSTEMS shall be at the cost indicated in the Bid Schedule. The contract lump sum price paid LIGHTING AND ELECTRICAL SYSTEMS shall include, but not limited to, full compensation for furnishing all labor, materials, tools, equipment, testing, and incidentals, including electroliers, pull boxes, conduit and wires, service to irrigation controller, and functional testing, required for doing all the work involved in completing the lighting and electrical systems work as shown on the Plans, as specified in the Standard Specifications, these Technical Specifications and the Special Provisions, and as directed by the Engineer. Additionally, no payment will be made for work, equipment, or materials not covered in these plans and specifications, but necessary to insure a completed project as specified.



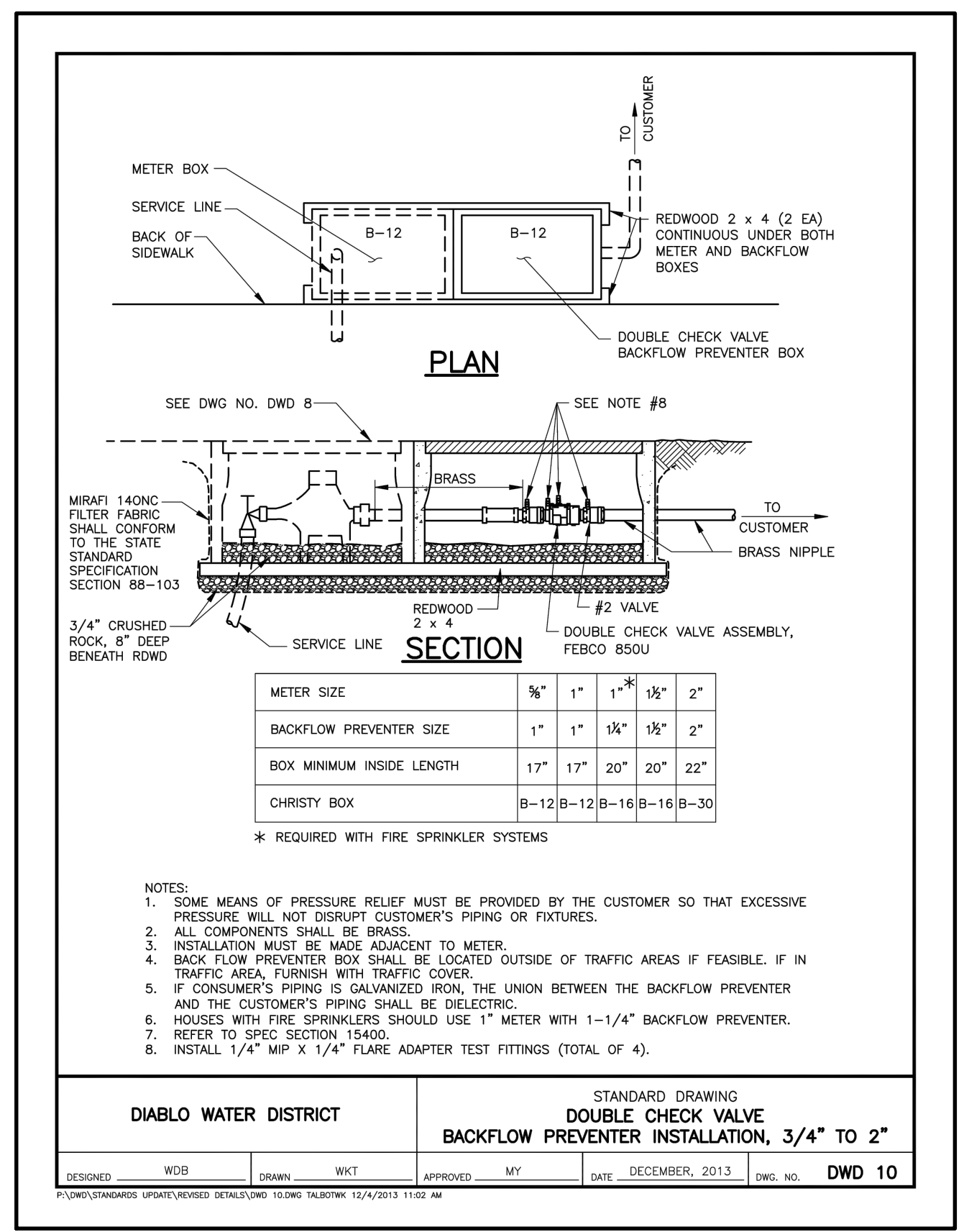
STANDARD TRENCH SECTION 1

GN-1 GD-1 GD-4 U-1 U-4 GD-2 GD-5 U-2 U-5 GD-3 GD-6 U-3 U-6



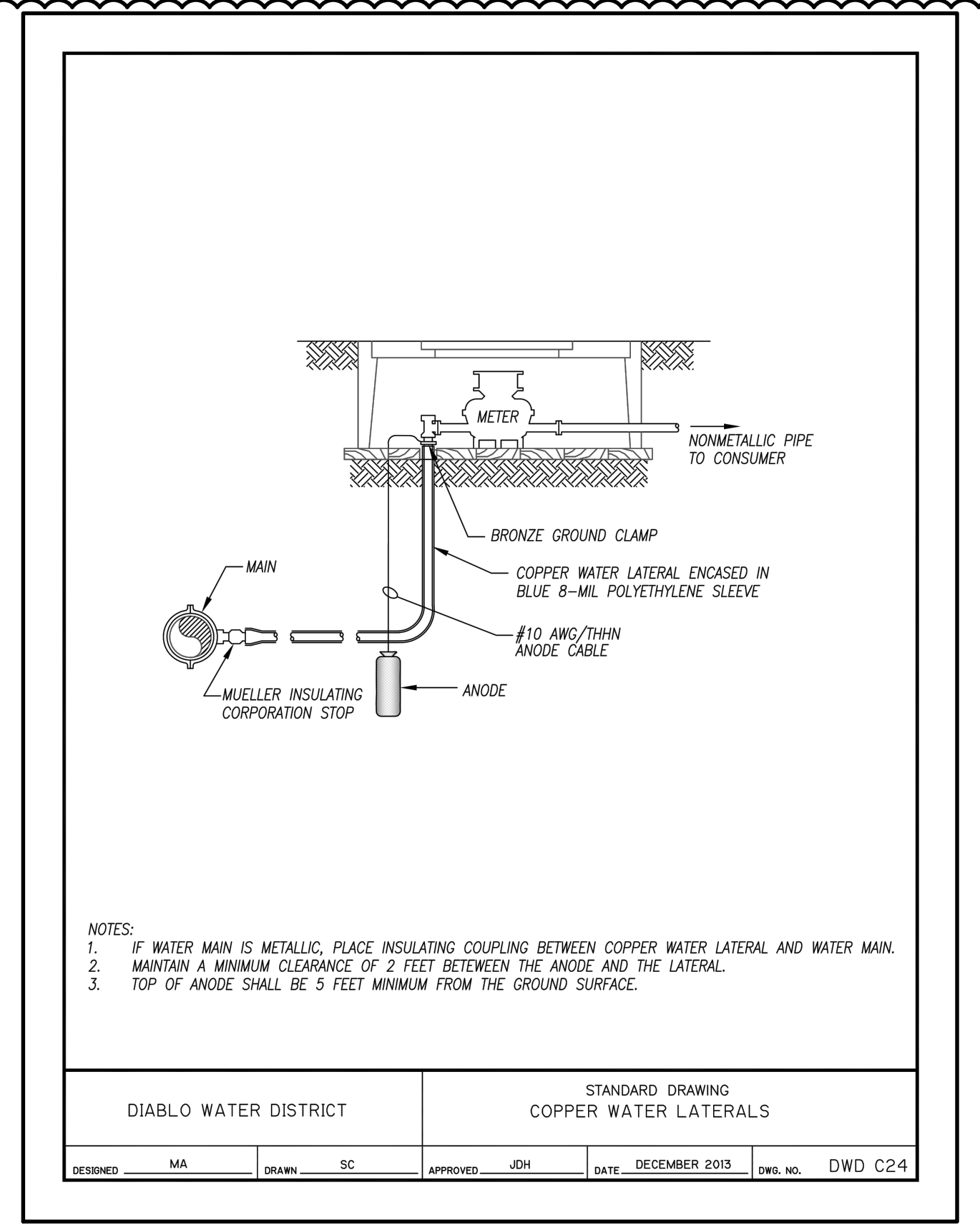
VALVE BOXES, LIDS AND RISER INSTALLATION, 12" AND SMALLER 2

U-3



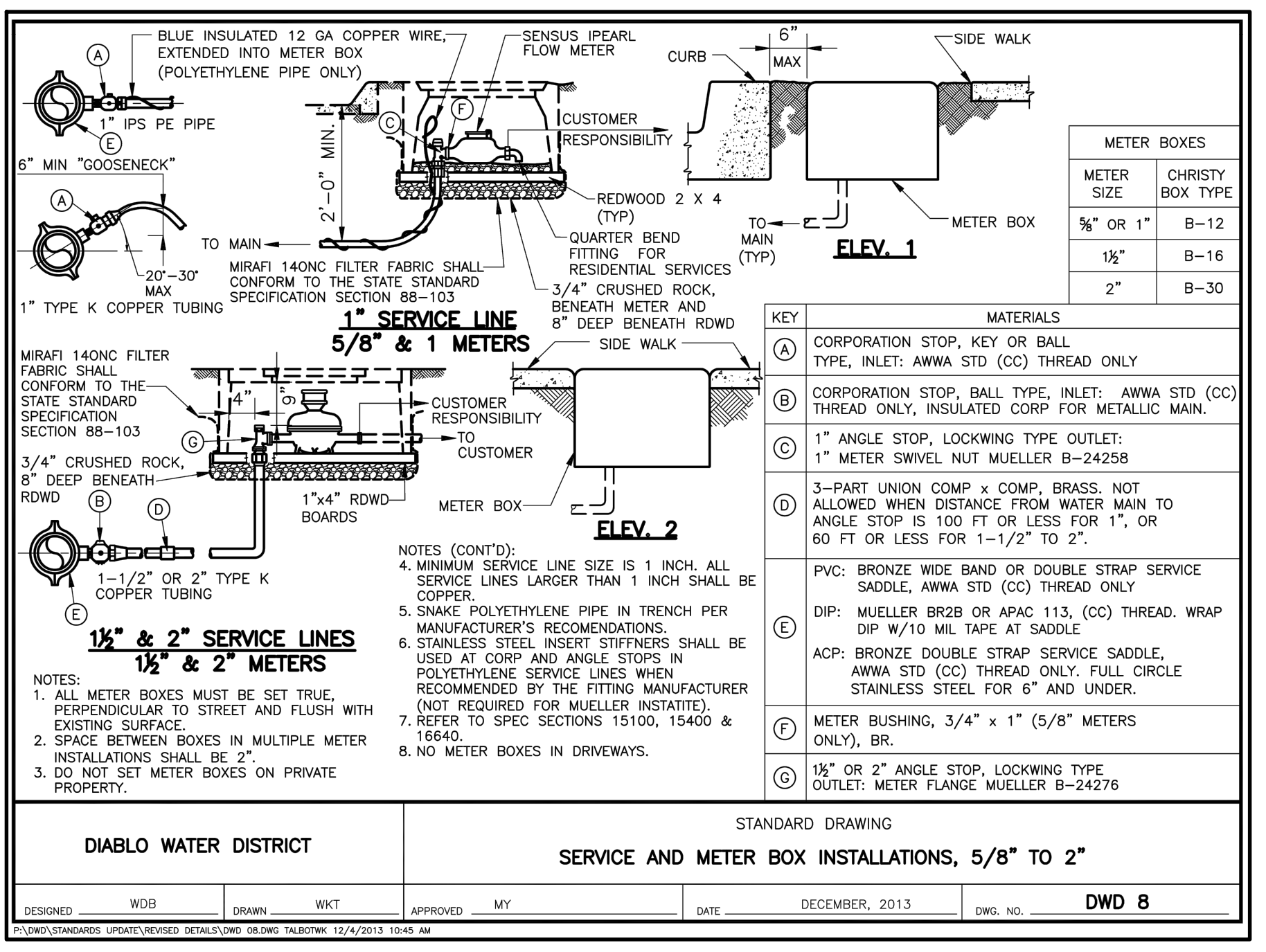
DOUBLE CHECK VALVE BACKFLOW PREVENTER INSTALLATION, 3/4" TO 2" 4

U-3



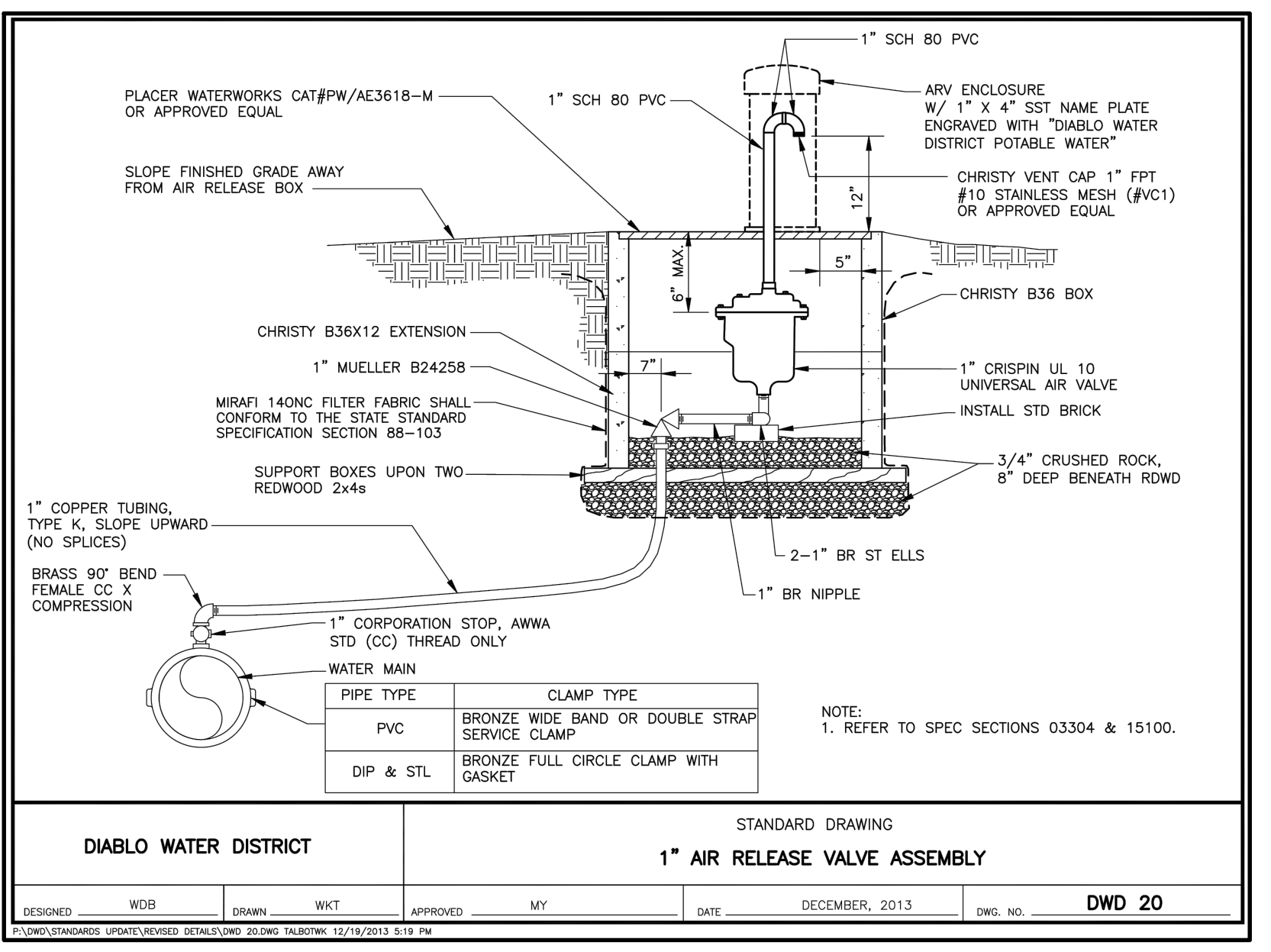
COPPER WATER LATERALS 5

U-2 U-3



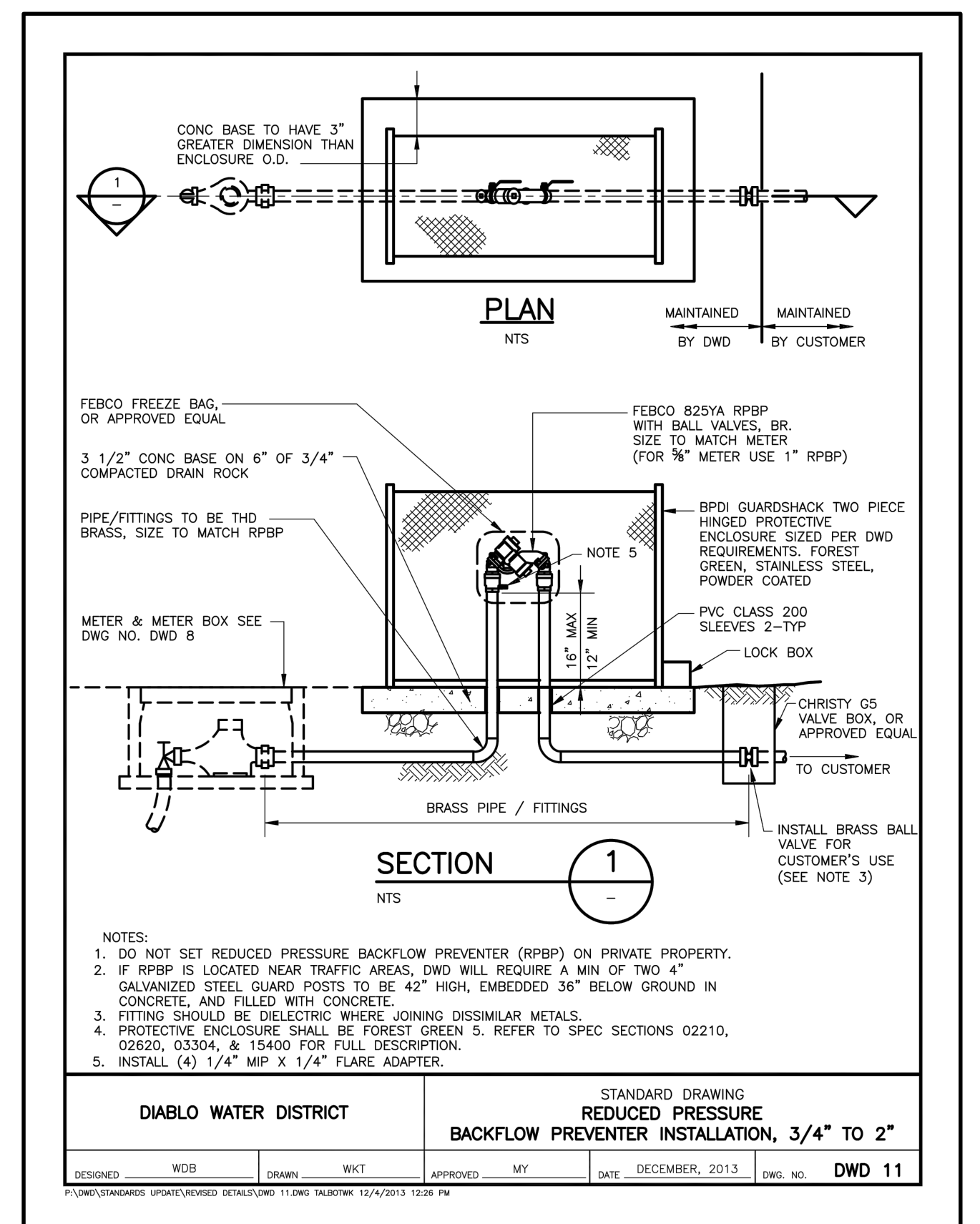
SERVICE AND METER BOX INSTALLATION, 5/8" TO 2" 3

U-3



1" AIR RELEASE VALVE ASSEMBLY 6

U-3



REDUCED PRESSURE BACKFLOW PREVENTER INSTALLATION, 3/4" TO 2" 7

U-3

### PAVEMENT DESIGN CHART

STATION NAME	T. I.	R	PAVEMENT SECTION (INCHES)			
			DESIGN 1		DESIGN 2	
			RHMA-G	HMA (TYPE A)	AB (CI 2)	FULL DEPTH HMA (TYPE A)
LAUREL ROAD	12.5	40	2"	6"	14.5"	14.5"
ROSE AVENUE	12.5	40	2"	6"	14.5"	14.5"

### ROADWAY QUANTITIES

RHMA-G (TON)	HMA (TYPE A) (TON)	AB (CI 2) (CY)
624	2150	1650

### EARTHWORK SUMMARY

DESCRIPTION	VOLUME (CY)
COMMON EXCAVATION	1500
ROADWAY EXCAVATION	3300
COMMON BACKFILL	150

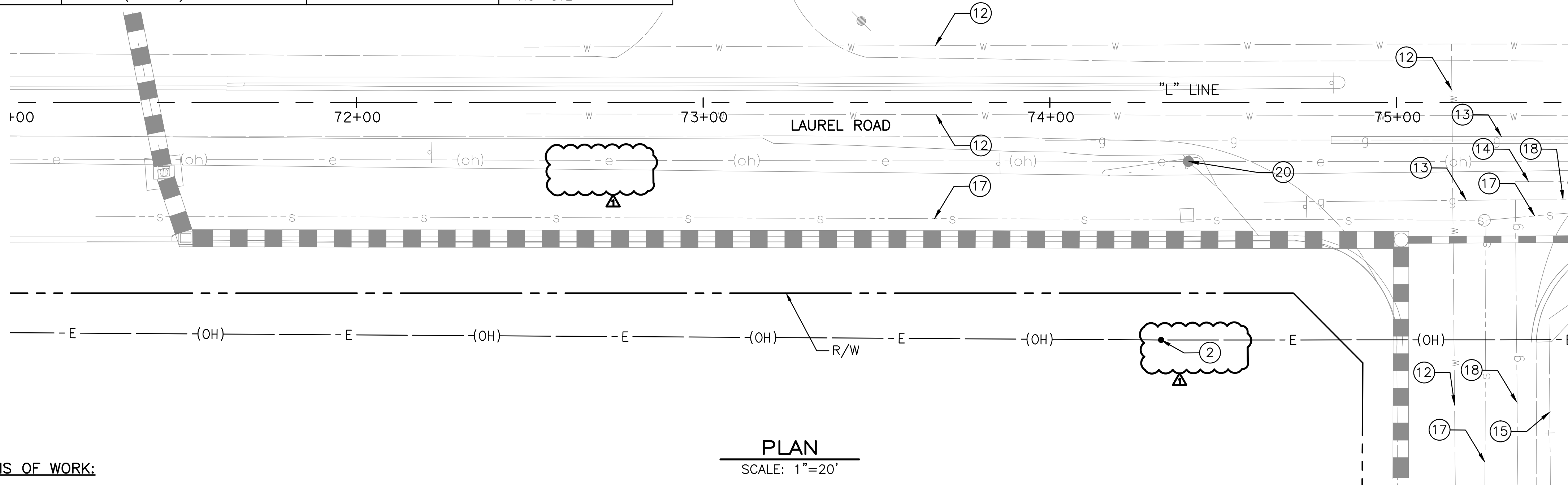
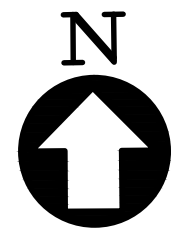
### STORM DRAIN SCHEDULE

SYSTEM #	ELEMENT	DESCRIPTION	LENGTH (LF)
1	a	EXISTING DRAINAGE INLET	-
	b	18" HDPE	270
	c	DRAINAGE INLET (TYPE I)	-
	d	18" HDPE	290
	e	DRAINAGE INLET (TYPE I)	-
	f	12" HDPE	20
2	a	EXISTING DRAINAGE INLET	-
	b	18" HDPE	5
	c	DRAINAGE INLET (TYPE I)	-

### WATER SCHEDULE

DESCRIPTION	QUANTITY	UNIT
1" IRRIGATION SERVICE		
1" SVC COPPER LINE	58	LF
WATER METER BOX	1	EA
1" WATER METER	1	EA
REDUCED PRESSURE BACKFLOW PREVENTER WITH CAGE	1	EA
1" WATER SERVICE		
1" SVC COPPER LINE	24	LF
WATER METER BOX	1	EA
DOUBLE CHECK VALVE BOX	1	EA
RELOCATE AIR RELEASE VALVE		
AIR RELEASE VALVE	2	EA
1" SVC COPPER LINE	40	LF

POTHOLE DATA			
PH #	UTILITY TYPE	DEPTH TO TOP (IN)	DESCRIPTION (DIA.)
PH1	WATER (DIABLO WATER DISTRICT)	72.50	18" PVC
PH2	GAS (PG&E)	34.00	4" PL
PH3	SANITARY FORCE MAIN (ISD)	61.00	4" C900 PVC
PH4	GAS (CPN)	38.00	8" UNK
PH5	NOT USED		
PH5A	WATER (DIABLO WATER DISTRICT)	44.00	16" DI
PH6	GAS (PG&E)	38.00	2" PL
PH6A	GAS (PG&E)	39.00	4" PL
PH7	WATER (DIABLO WATER DISTRICT)	68.00	12" PVC
PH8	SANITARY FORCE MAIN (ISD)	60.00	4" C900 PVC
PH9	GAS (CPN)	61.00	4" PVC
PH22	SANITARY FORCE MAIN (ISD)	54.00	8" UNK
PH23	GAS (CPN)	CONC CAP AT 9.5"	UNK
PH24	GAS (PG&E)	26.00	4" PL
PH24A	ELECTRIC (PG&E)	32.00	3" PVC
PH25	WATER (PRIVATE)	21.00	1.5" STL



PLAN  
SCALE: 1"=20'

**NOTES:**

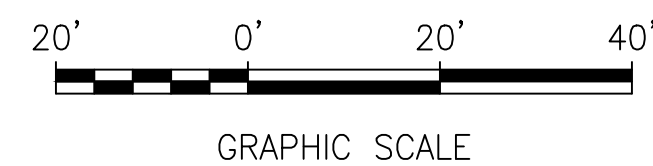
- THIS PLAN ACCURATE FOR UTILITIES ONLY.
- FOR STORM DRAIN INFORMATION, SEE GRADING AND DRAINAGE PLAN.
- CONTRACTOR TO VERIFY ALL EXISTING UNDERGROUND UTILITIES BEFORE CONSTRUCTION.
- FOR WATER DETAILS, REFER TO DIABLO WATER DISTRICT STANDARD SPECIFICATIONS AND DRAWINGS.
- ALL AC PIPE REMOVED BY CONTRACTOR SHALL BE DISPOSED OF IN ACCORDANCE WITH CALIFORNIA REGULATIONS.
- CONTRACTOR SHALL CONFIRM WITH UTILITY OWNER THAT UTILITY HAS BEEN ABANDONED BEFORE REMOVING OR MODIFYING ANY ABANDONED UTILITY.
- ALL WATER LINE TRENCHING SHALL CONFORM TO DIABLO WATER DISTRICT STANDARDS. SEE DETAIL **1** CD-3
- PROPOSED OVERHEAD LINES (OH) INCLUDE ELECTRICAL, TELEPHONE AND TELEVISION.
- NO WORK SHALL BEGIN UNTIL WAPA POLES HAVE BEEN RELOCATED.
- CONTRACTOR TO INSTALL PRECAST LARK STYLE SOUND WALL MANUFACTURED BY OLDCASTLE. THE SOUND WALL SHALL BE DESIGNED BY THE MANUFACTURER. THE SOUND WALL DESIGN PLANS SHALL BE SIGNED BY A PROFESSIONAL ENGINEER AND REVIEWED AND APPROVED BY THE CITY BUILDING DEPARTMENT.

**ITEMS OF WORK:**

- |   |   |
|---|---|
| <p>① INSTALL JP AND RESTRING OVERHEAD ELECTRICAL, TELEPHONE AND CABLE TV CABLES. PLACE GUY WIRES WHERE REQUIRED. (BY OTHERS)</p> <p>② INSTALL WAPA TRANSMISSION POLES AND RESTRING OVERHEAD ELECTRICAL CABLES. (BY OTHERS)</p> <p>③ RELOCATE ARV FROM WATER MAIN WITH NEW COPPER SVC LINE PER DWD 20. <b>6</b> CD-3</p> <p>④ ADJUST WATER VALVE TO GRADE, SEE DETAIL <b>2</b> CD-3</p> <p>⑤ ADJUST CP TEST STATION BOX TO GRADE, SEE DETAIL <b>2</b> CD-3</p> <p>⑥ NOT USED</p> <p>⑦ REMOVE AND REPLACE UTILITY VALVE BOX COVER WITH TRAFFIC LID. COORDINATE WITH DWD FOR PROTECTION OF TESTING EQUIPMENT.</p> <p>⑧ PROTECT UTILITY POLE IN PLACE</p> <p>⑨ NOT USED</p> <p>⑩ INSTALL NEW 1" COPPER SVC LINE PER DWD STD PLANS AND SPECIFICATIONS. NEW WATER VALVE AND VALVE BOX PER DWD 17. INSTALL NEW WM BOX AND DCBP BOX PER DWD 8 AND 10. COORDINATE BOX LOCATIONS WITH PROPERTY OWNER. NEW 9# ANODE PER DWD C24. HOT TAP BY TAP MASTERS ONLY. SEE DETAILS <b>2</b> CD-3 <b>3</b> CD-3 <b>4</b> CD-3 <b>5</b> CD-3</p> <p>⑪ NOT USED.</p> | <p>⑫ PROTECT WATER LINE IN PLACE</p> <p>⑬ PROTECT CONCRETE CAP AND GAS MAIN</p> <p>⑭ PROTECT IN PLACE PG&amp;E ELECTRIC LINE</p> <p>⑮ PROTECT IN PLACE TELECOM LINE</p> <p>⑯ PROTECT EXISTING ELECTRICAL SERVICE ENCLOSURE. COORDINATE WITH CIP 196.</p> <p>⑰ PROTECT SANITARY SEWER LINE IN PLACE</p> <p>⑱ PROTECT IN PLACE GAS LINE</p> <p>⑲ REMOVE AND DISPOSE OF JP (BY OTHERS)</p> <p>⑳ REMOVE AND DISPOSE OF WAPA TRANSMISSION POLE (BY OTHERS)</p> <p>㉑ REMOVE AND DISPOSE OF GUY POLE (BY OTHERS)</p> <p>㉒ ADJUST TO GRADE UTILITY BOX</p> <p>㉓ PROTECT IN PLACE FIRE HYDRANT</p> <p>㉔ NOT USED.</p> <p>㉕ INSTALL NEW 1" COPPER SVC LINE PER DWD STD PLANS AND SPECIFICATIONS. NEW WATER METER BOX AND REDUCED PRESSURE BACKFLOW PREVENTOR WITH CAGE PER DWD 8 AND 11. NEW 9# ANODE PER DWD C24. HOT TAP BY TAP MASTERS ONLY. SEE DETAILS <b>3</b> CD-3 <b>5</b> CD-3 <b>7</b> CD-3</p> <p>㉖ INSTALL CASING/SLEEVE THROUGH DEEPENED CURB.</p> |
|---|---|

**LEGEND:**

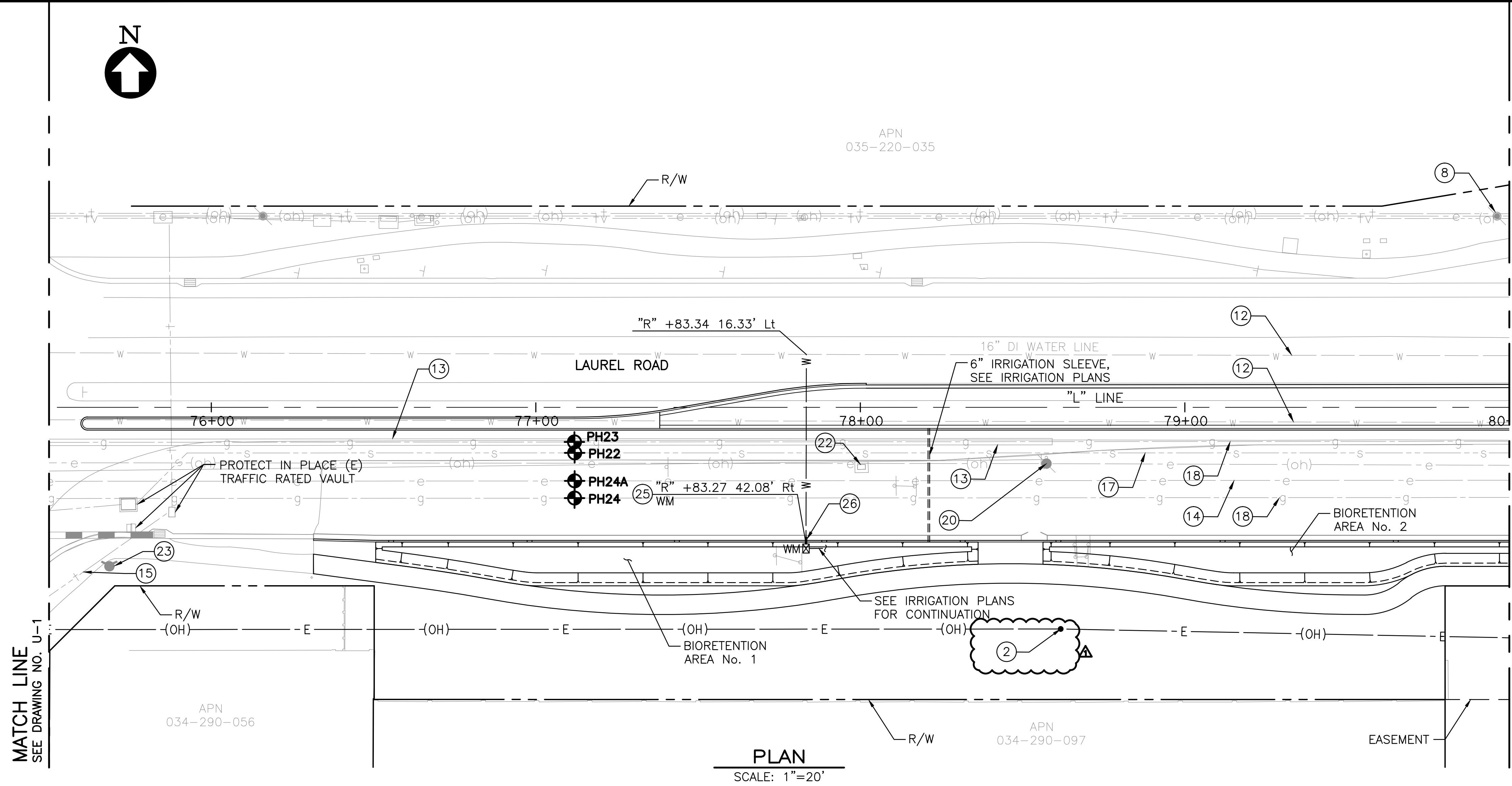
EXISTING		PROPOSED	
---g---	Exist GAS LINE	(OH) ---E---	PROPOSED Elect OH LINE (INCLUDES ELECTRICAL, TELEPHONE AND TELEVISION) - BY OTHERS
(oh) ---e---	Exist Elect OH LINE	---W---	PROPOSED WATER LINE
---tv---	Exist CATV OH LINE	•	PROPOSED WATER PIPE
---+---	Exist TELE OH LINE	WV	PROPOSED WATER VALVE IN CHRISTY BOX
---s---	Exist SANITARY SEWER LINE	•	PROPOSED POLE
---e---	Exist Elect LINE		
---w---	Exist WATER LINE		
---+---	Exist TELE LINE		
□	Exist SANITARY SEWER LIFT STATION		
⊙	Exist SSMH		
•	Exist WATER PIPE		
⊗	Exist WATER VALVE		
WV	Exist WATER VALVE IN CHRISTY BOX		
WM	Exist WATER METER		
ETS	Exist ETS		
•	Exist POLE		
•	Exist GUY WIRE		
⊙	Exist CORROSION PROTECTION TEST STATION		



Date: 02/16/17	Revisions
Scale: AS NOTED	201618 ADDENDUM No. 1
Design: TC	
Drawn: TC	
Approved: JW	
Job No: 2016704-10	

**NOTES:**

- THIS PLAN ACCURATE FOR UTILITIES ONLY.
- FOR STORM DRAIN INFORMATION, SEE GRADING AND DRAINAGE PLAN.
- CONTRACTOR TO VERIFY ALL EXISTING UNDERGROUND UTILITIES BEFORE CONSTRUCTION.
- FOR WATER DETAILS, REFER TO DIABLO WATER DISTRICT STANDARD SPECIFICATIONS AND DRAWINGS.
- ALL AC PIPE REMOVED BY CONTRACTOR SHALL BE DISPOSED OF IN ACCORDANCE WITH CALIFORNIA REGULATIONS.
- CONTRACTOR SHALL CONFIRM WITH UTILITY OWNER THAT UTILITY HAS BEEN ABANDONED BEFORE REMOVING OR MODIFYING ANY ABANDONED UTILITY.
- ALL WATER LINE TRENCHING SHALL CONFORM TO DIABLO WATER DISTRICT STANDARDS. SEE DETAIL **CD-3**
- PROPOSED OVERHEAD LINES (OH) INCLUDE ELECTRICAL, TELEPHONE AND TELEVISION.
- NO WORK SHALL BEGIN UNTIL WAPA POLES HAVE BEEN RELOCATED.
- CONTRACTOR TO INSTALL PRECAST LARK STYLE SOUND WALL MANUFACTURED BY OLDCASTLE. THE SOUND WALL SHALL BE DESIGNED BY THE MANUFACTURER. THE SOUND WALL DESIGN PLANS SHALL BE SIGNED BY A PROFESSIONAL ENGINEER AND REVIEWED AND APPROVED BY THE CITY BUILDING DEPARTMENT.



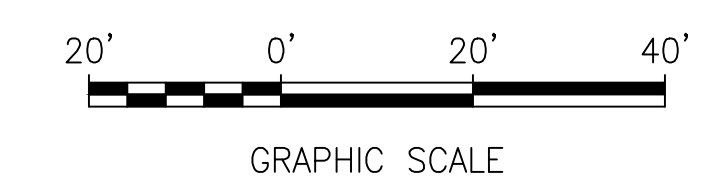
**ITEMS OF WORK:**

- INSTALL JP AND RESTRING OVERHEAD ELECTRICAL, TELEPHONE AND CABLE TV CABLES. PLACE GUY WIRES WHERE REQUIRED. (BY OTHERS)
- INSTALL WAPA TRANSMISSION POLES AND RESTRING OVERHEAD ELECTRICAL CABLES. (BY OTHERS)
- RELOCATE ARV FROM WATER MAIN WITH NEW COPPER SVC LINE PER DWD 20. **CD-3**
- ADJUST WATER VALVE TO GRADE, SEE DETAIL **CD-3**
- ADJUST CP TEST STATION BOX TO GRADE, SEE DETAIL **CD-3**
- NOT USED
- REMOVE AND REPLACE UTILITY VALVE BOX COVER WITH TRAFFIC LID. COORDINATE WITH DWD FOR PROTECTION OF TESTING EQUIPMENT.
- PROTECT UTILITY POLE IN PLACE
- NOT USED
- INSTALL NEW 1" COPPER SVC LINE PER DWD STD PLANS AND SPECIFICATIONS. NEW WATER VALVE AND VALVE BOX PER DWD 17. INSTALL NEW WM BOX AND DCBP BOX PER DWD 8 AND 10. COORDINATE BOX LOCATIONS WITH PROPERTY OWNER. NEW 9# ANODE PER DWD C24. HOT TAP BY TAP MASTERS ONLY. SEE DETAILS **CD-3**
- NOT USED.

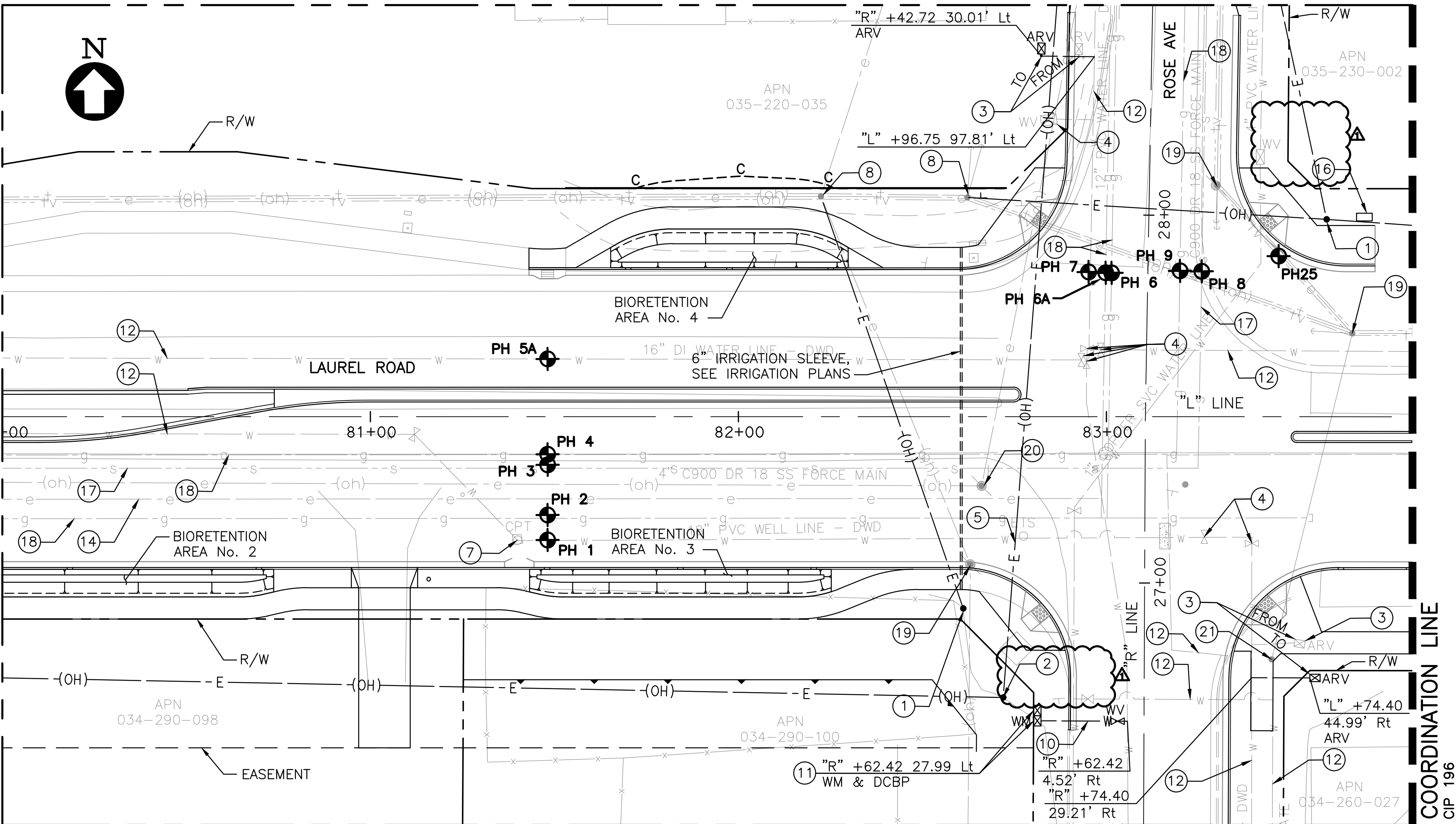
- PROTECT WATER LINE IN PLACE
- PROTECT CONCRETE CAP AND GAS MAIN
- PROTECT IN PLACE PG&E ELECTRIC LINE
- PROTECT IN PLACE TELECOM LINE
- PROTECT EXISTING ELECTRICAL SERVICE ENCLOSURE. COORDINATE WITH CIP 196.
- PROTECT SANITARY SEWER LINE IN PLACE
- PROTECT IN PLACE GAS LINE
- REMOVE AND DISPOSE OF JP (BY OTHERS)
- REMOVE AND DISPOSE OF WAPA TRANSMISSION POLE (BY OTHERS)
- REMOVE AND DISPOSE OF GUY POLE (BY OTHERS)
- ADJUST TO GRADE UTILITY BOX
- PROTECT IN PLACE FIRE HYDRANT
- NOT USED.
- INSTALL NEW 1" COPPER SVC LINE PER DWD STD PLANS AND SPECIFICATIONS. NEW WATER METER BOX AND REDUCED PRESSURE BACKFLOW PREVENTOR WITH CAGE PER DWD 8 AND 11. NEW 9# ANODE PER DWD C24. HOT TAP BY TAP MASTERS ONLY. SEE DETAILS **CD-3**
- INSTALL CASING/SLEEVE THROUGH DEEPENED CURB.

**LEGEND:**

EXISTING	PROPOSED
---g---	Exist GAS LINE
(oh)---	Exist Elect OH LINE
---tv---	Exist CATV OH LINE
---+---	Exist TELE OH LINE
---s---	Exist SANITARY SEWER LINE
---e---	Exist Elect LINE
---w---	Exist WATER LINE
---+---	Exist TELE LINE
□	Exist SANITARY SEWER LIFT STATION
⊙	Exist SSMH
•	Exist WATER PIPE
⊗	Exist WATER VALVE
WV ⊗	Exist WATER VALVE IN CHRISTY BOX
WM	Exist WATER METER
ETS	Exist ETS
•	Exist POLE
←	Exist GUY WIRE
⊙	Exist CORROSION PROTECTION TEST STATION



MATCH LINE  
SEE DRAWING NO. U-6



MATCH LINE  
SEE DRAWING NO. U-5

PLAN  
SCALE: 1"=20'

MATCH LINE  
SEE DRAWING NO. U-2

COORDINATION LINE  
CIP 196

NOTES:

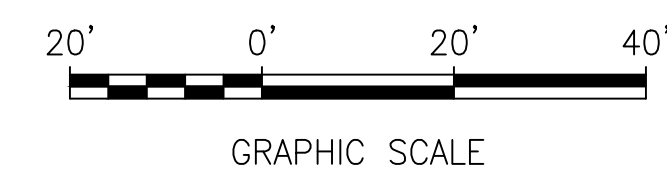
1. THIS PLAN ACCURATE FOR UTILITIES ONLY.
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3. CONTRACTOR TO VERIFY ALL EXISTING UNDERGROUND UTILITIES BEFORE CONSTRUCTION.
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5. ALL AC PIPE REMOVED BY CONTRACTOR SHALL BE DISPOSED OF IN ACCORDANCE WITH CALIFORNIA REGULATIONS.
6. CONTRACTOR SHALL CONFIRM WITH UTILITY OWNER THAT UTILITY HAS BEEN ABANDONED BEFORE REMOVING OR MODIFYING ANY ABANDONED UTILITY.
7. ALL WATER LINE TRENCHING SHALL CONFORM TO DIABLO WATER DISTRICT STANDARDS. SEE DETAIL 1 CD-3
8. PROPOSED OVERHEAD LINES (OH) INCLUDE ELECTRICAL, TELEPHONE AND TELEVISION.
9. NO WORK SHALL BEGIN UNTIL WAPA POLES HAVE BEEN RELOCATED.
10. CONTRACTOR TO INSTALL PRECAST LARK STYLE SOUND WALL MANUFACTURED BY OLDCASTLE. THE SOUND WALL SHALL BE DESIGNED BY THE MANUFACTURER. THE SOUND WALL DESIGN PLANS SHALL BE SIGNED BY A PROFESSIONAL ENGINEER AND REVIEWED AND APPROVED BY THE CITY BUILDING DEPARTMENT.

ITEMS OF WORK:

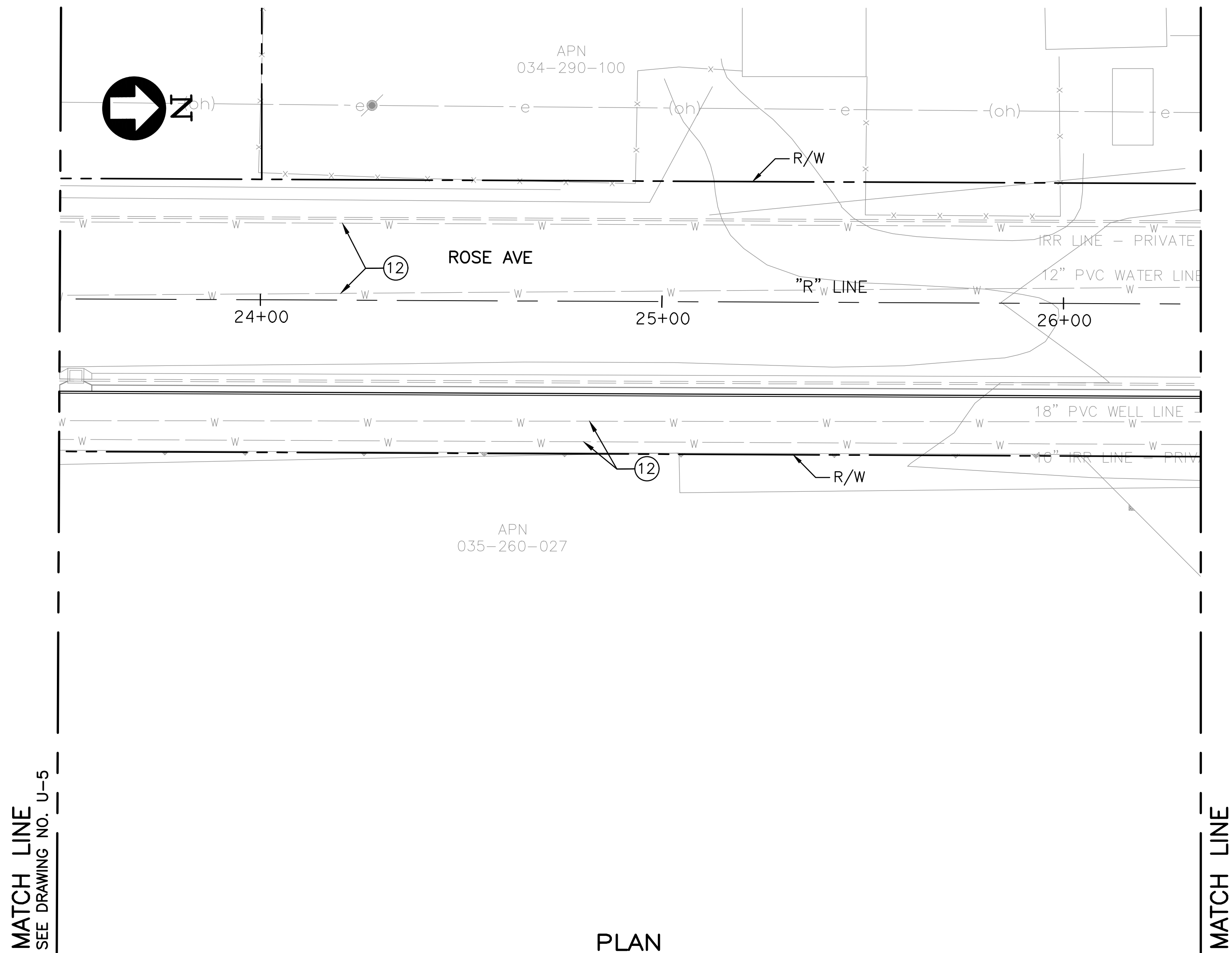
- |  |  |
|--|--|
| <p>① INSTALL JP AND RESTRING OVERHEAD ELECTRICAL, TELEPHONE AND CABLE TV CABLES. PLACE GUY WIRES WHERE REQUIRED. (BY OTHERS)</p> <p>② INSTALL WAPA TRANSMISSION POLES AND RESTRING OVERHEAD ELECTRICAL CABLES. (BY OTHERS)</p> <p>③ RELOCATE ARV FROM WATER MAIN WITH NEW COPPER SVC LINE PER DWD 20.</p> <p>④ ADJUST WATER VALVE TO GRADE, SEE DETAIL 2 CD-3</p> <p>⑤ ADJUST CP TEST STATION BOX TO GRADE, SEE DETAIL 2 CD-3</p> <p>⑥ NOT USED</p> <p>⑦ REMOVE AND REPLACE UTILITY VALVE BOX COVER WITH TRAFFIC LID. COORDINATE WITH DWD FOR PROTECTION OF TESTING EQUIPMENT.</p> <p>⑧ PROTECT UTILITY POLE IN PLACE</p> <p>⑨ NOT USED</p> <p>⑩ INSTALL NEW 1" COPPER SVC LINE PER DWD STD PLANS AND SPECIFICATIONS. NEW WATER VALVE AND VALVE BOX PER DWD 17. INSTALL NEW WM BOX AND DCBP BOX PER DWD 8 AND 10. COORDINATE BOX LOCATIONS WITH PROPERTY OWNER. NEW 9# ANODE PER DWD C24. HOT TAP BY TAP MASTERS ONLY. SEE DETAILS 2 CD-3, 3 CD-3, 4 CD-3, 5 CD-3</p> <p>⑪ NOT USED.</p> | <p>⑫ PROTECT WATER LINE IN PLACE</p> <p>⑬ PROTECT CONCRETE CAP AND GAS MAIN</p> <p>⑭ PROTECT IN PLACE PG&amp;E ELECTRIC LINE</p> <p>⑮ PROTECT IN PLACE TELECOM LINE</p> <p>⑯ PROTECT EXISTING ELECTRICAL SERVICE ENCLOSURE. COORDINATE WITH CIP 196.</p> <p>⑰ PROTECT SANITARY SEWER LINE IN PLACE</p> <p>⑱ PROTECT IN PLACE GAS LINE</p> <p>⑲ REMOVE AND DISPOSE OF JP (BY OTHERS)</p> <p>⑳ REMOVE AND DISPOSE OF WAPA TRANSMISSION POLE (BY OTHERS)</p> <p>㉑ REMOVE AND DISPOSE OF GUY POLE (BY OTHERS)</p> <p>㉒ ADJUST TO GRADE UTILITY BOX</p> <p>㉓ PROTECT IN PLACE FIRE HYDRANT</p> <p>㉔ NOT USED.</p> <p>㉕ INSTALL NEW 1" COPPER SVC LINE PER DWD STD PLANS AND SPECIFICATIONS. NEW WATER METER BOX AND REDUCED PRESSURE BACKFLOW PREVENTOR WITH CAGE PER DWD 8 AND 11. NEW 9# ANODE PER DWD C24. HOT TAP BY TAP MASTERS ONLY. SEE DETAILS 3 CD-3, 5 CD-3, 7 CD-3</p> <p>㉖ INSTALL CASING/SLEEVE THROUGH DEEPENED CURB.</p> |
|--|--|

LEGEND:

EXISTING		PROPOSED	
-----g-----g-----	Exist GAS LINE	(OH)-----E-----	PROPOSED Elect OH LINE (INCLUDES ELECTRICAL, TELEPHONE AND TELEVISION) - BY OTHERS
(oh)-----e-----	Exist Elect OH LINE	-----W-----W-----	PROPOSED WATER LINE
----+v------(oh)-----	Exist CATV OH LINE	WV	PROPOSED WATER PIPE
-----+------(oh)-----	Exist TELE OH LINE	•	PROPOSED WATER VALVE IN CHRISTY BOX
-----s-----s-----	Exist SANITARY SEWER LINE	•	PROPOSED POLE
-----e-----e-----	Exist Elect LINE		
-----w-----w-----	Exist WATER LINE		
-----+-----+-----	Exist TELE LINE		
□	Exist SANITARY SEWER LIFT STATION		
⊗	Exist SSMH		
•	Exist WATER PIPE		
⊗	Exist WATER VALVE		
WV	Exist WATER VALVE IN CHRISTY BOX		
WM	Exist WATER METER		
ETS	Exist ETS		
•	Exist POLE		
•	Exist GUY WIRE		
CPT	Exist CORROSION PROTECTION TEST STATION		



Date: 02/16/17	Revisions
Scale: AS NOTED	20161216 ADDENDUM No. 1
Design: TC	
Drawn: TC	
Approved: JW	
Job No: 20167094-10	



**PLAN**  
SCALE: 1"=20'

**NOTES:**

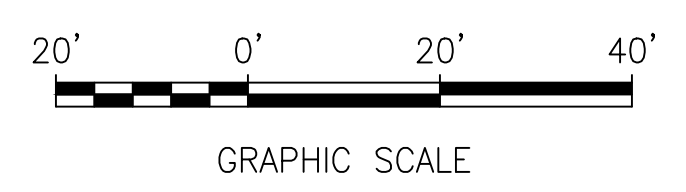
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- PROPOSED OVERHEAD LINES (OH) INCLUDE ELECTRICAL, TELEPHONE AND TELEVISION.
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- CONTRACTOR TO INSTALL PRECAST LARK STYLE SOUND WALL MANUFACTURED BY OLDCASTLE. THE SOUND WALL SHALL BE DESIGNED BY THE MANUFACTURER. THE SOUND WALL DESIGN PLANS SHALL BE SIGNED BY A PROFESSIONAL ENGINEER AND REVIEWED AND APPROVED BY THE CITY BUILDING DEPARTMENT.

**ITEMS OF WORK:**

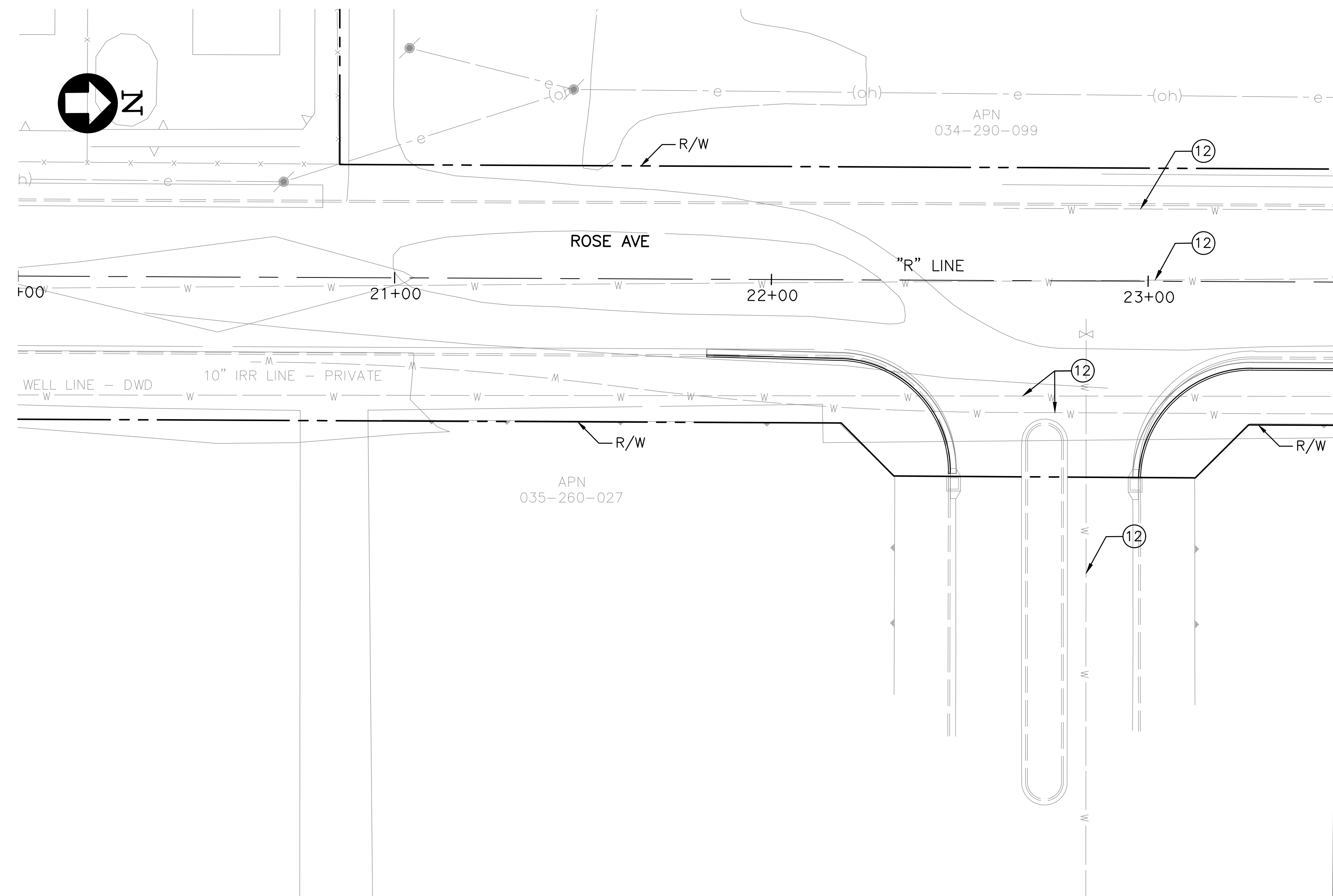
- |   |   |
|---|---|
| <p>① INSTALL JP AND RESTRING OVERHEAD ELECTRICAL, TELEPHONE AND CABLE TV CABLES. PLACE GUY WIRES WHERE REQUIRED. (BY OTHERS)</p> <p>② INSTALL WAPA TRANSMISSION POLES AND RESTRING OVERHEAD ELECTRICAL CABLES. (BY OTHERS)</p> <p>③ RELOCATE ARV FROM WATER MAIN WITH NEW COPPER SVC LINE PER DWD 20. <b>6</b> CD-3</p> <p>④ ADJUST WATER VALVE TO GRADE, SEE DETAIL <b>2</b> CD-3</p> <p>⑤ ADJUST CP TEST STATION BOX TO GRADE, SEE DETAIL <b>2</b> CD-3</p> <p>⑥ NOT USED</p> <p>⑦ REMOVE AND REPLACE UTILITY VALVE BOX COVER WITH TRAFFIC LID. COORDINATE WITH DWD FOR PROTECTION OF TESTING EQUIPMENT.</p> <p>⑧ PROTECT UTILITY POLE IN PLACE</p> <p>⑨ NOT USED</p> <p>⑩ INSTALL NEW 1" COPPER SVC LINE PER DWD STD PLANS AND SPECIFICATIONS. NEW WATER VALVE AND VALVE BOX PER DWD 17. INSTALL NEW WM BOX AND DCBP BOX PER DWD 8 AND 10. COORDINATE BOX LOCATIONS WITH PROPERTY OWNER. NEW 9# ANODE PER DWD C24. HOT TAP BY TAP MASTERS ONLY. SEE DETAILS <b>2</b> CD-3 <b>3</b> CD-3 <b>4</b> CD-3 <b>5</b> CD-3</p> <p>⑪ NOT USED.</p> | <p>⑫ PROTECT WATER LINE IN PLACE</p> <p>⑬ PROTECT CONCRETE CAP AND GAS MAIN</p> <p>⑭ PROTECT IN PLACE PG&amp;E ELECTRIC LINE</p> <p>⑮ PROTECT IN PLACE TELECOM LINE</p> <p>⑯ PROTECT EXISTING ELECTRICAL SERVICE ENCLOSURE. COORDINATE WITH CIP 196.</p> <p>⑰ PROTECT SANITARY SEWER LINE IN PLACE</p> <p>⑱ PROTECT IN PLACE GAS LINE</p> <p>⑲ REMOVE AND DISPOSE OF JP (BY OTHERS)</p> <p>⑳ REMOVE AND DISPOSE OF WAPA TRANSMISSION POLE (BY OTHERS)</p> <p>㉑ REMOVE AND DISPOSE OF GUY POLE (BY OTHERS)</p> <p>㉒ ADJUST TO GRADE UTILITY BOX</p> <p>㉓ PROTECT IN PLACE FIRE HYDRANT</p> <p>㉔ NOT USED.</p> <p>㉕ INSTALL NEW 1" COPPER SVC LINE PER DWD STD PLANS AND SPECIFICATIONS. NEW WATER METER BOX AND REDUCED PRESSURE BACKFLOW PREVENTOR WITH CAGE PER DWD 8 AND 11. NEW 9# ANODE PER DWD C24. HOT TAP BY TAP MASTERS ONLY. SEE DETAILS <b>3</b> CD-3 <b>5</b> CD-3 <b>7</b> CD-3</p> <p>㉖ INSTALL CASING/SLEEVE THROUGH DEEPENED CURB.</p> |
|---|---|

**LEGEND:**

EXISTING		PROPOSED	
-----g-----g-----	Exist GAS LINE	(OH)-----E-----	PROPOSED Elect OH LINE (INCLUDES ELECTRICAL, TELEPHONE AND TELEVISION) - BY OTHERS
(oh)-----e-----	Exist Elect OH LINE	-----W-----W-----	PROPOSED WATER LINE
----+v------(oh)-----	Exist CATV OH LINE	-----W-----W-----	PROPOSED WATER PIPE
----+------(oh)-----	Exist TELE OH LINE	•	PROPOSED WATER VALVE IN CHRISTY BOX
-----s-----s-----	Exist SANITARY SEWER LINE	•	PROPOSED POLE
-----e-----e-----	Exist Elect LINE		
-----w-----w-----	Exist WATER LINE		
----+-----+-----	Exist TELE LINE		
□	Exist SANITARY SEWER LIFT STATION		
⊙	Exist SSMH		
•	Exist WATER PIPE		
⊗	Exist WATER VALVE		
⊗	Exist WATER VALVE IN CHRISTY BOX		
WM	Exist WATER METER		
○	Exist ETS		
•	Exist POLE		
•	Exist GUY WIRE		
○	Exist CORROSION PROTECTION TEST STATION		







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- NO WORK SHALL BEGIN UNTIL WAPA POLES HAVE BEEN RELOCATED.
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**MATCH LINE**  
SEE DRAWING NO. U-4

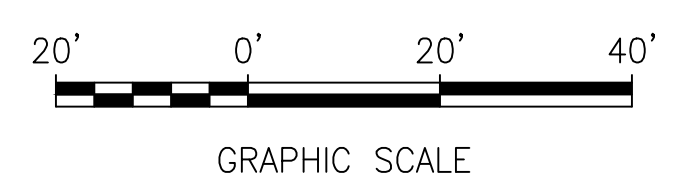
**ITEMS OF WORK:**

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- ② INSTALL WAPA TRANSMISSION POLES AND RESTRING OVERHEAD ELECTRICAL CABLES. (BY OTHERS)
- ③ RELOCATE ARV FROM WATER MAIN WITH NEW COPPER SVC LINE PER DWD 20. **2** CD-3
- ④ ADJUST WATER VALVE TO GRADE, SEE DETAIL **2** CD-3
- ⑤ ADJUST CP TEST STATION BOX TO GRADE, SEE DETAIL **2** CD-3
- ⑥ NOT USED
- ⑦ REMOVE AND REPLACE UTILITY VALVE BOX COVER WITH TRAFFIC LID. COORDINATE WITH DWD FOR PROTECTION OF TESTING EQUIPMENT.
- ⑧ PROTECT UTILITY POLE IN PLACE
- ⑨ NOT USED
- ⑩ INSTALL NEW 1" COPPER SVC LINE PER DWD STD PLANS AND SPECIFICATIONS. NEW WATER VALVE AND VALVE BOX PER DWD 17. INSTALL NEW WM BOX AND DCBP BOX PER DWD 8 AND 10. COORDINATE BOX LOCATIONS WITH PROPERTY OWNER. NEW 9# ANODE PER DWD C24. HOT TAP BY TAP MASTERS ONLY. SEE DETAILS **2** CD-3 **3** CD-3 **4** CD-3 **5** CD-3
- ⑪ NOT USED.

- ⑫ PROTECT WATER LINE IN PLACE
- ⑬ PROTECT CONCRETE CAP AND GAS MAIN
- ⑭ PROTECT IN PLACE PG&E ELECTRIC LINE
- ⑮ PROTECT IN PLACE TELECOM LINE
- ⑯ PROTECT EXISTING ELECTRICAL SERVICE ENCLOSURE. COORDINATE WITH CIP 196.
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- ⑳ REMOVE AND DISPOSE OF WAPA TRANSMISSION POLE (BY OTHERS)
- ㉑ REMOVE AND DISPOSE OF GUY POLE (BY OTHERS)
- ㉒ ADJUST TO GRADE UTILITY BOX
- ㉓ PROTECT IN PLACE FIRE HYDRANT
- ㉔ NOT USED.
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- ㉖ INSTALL CASING/SLEEVE THROUGH DEEPENED CURB.

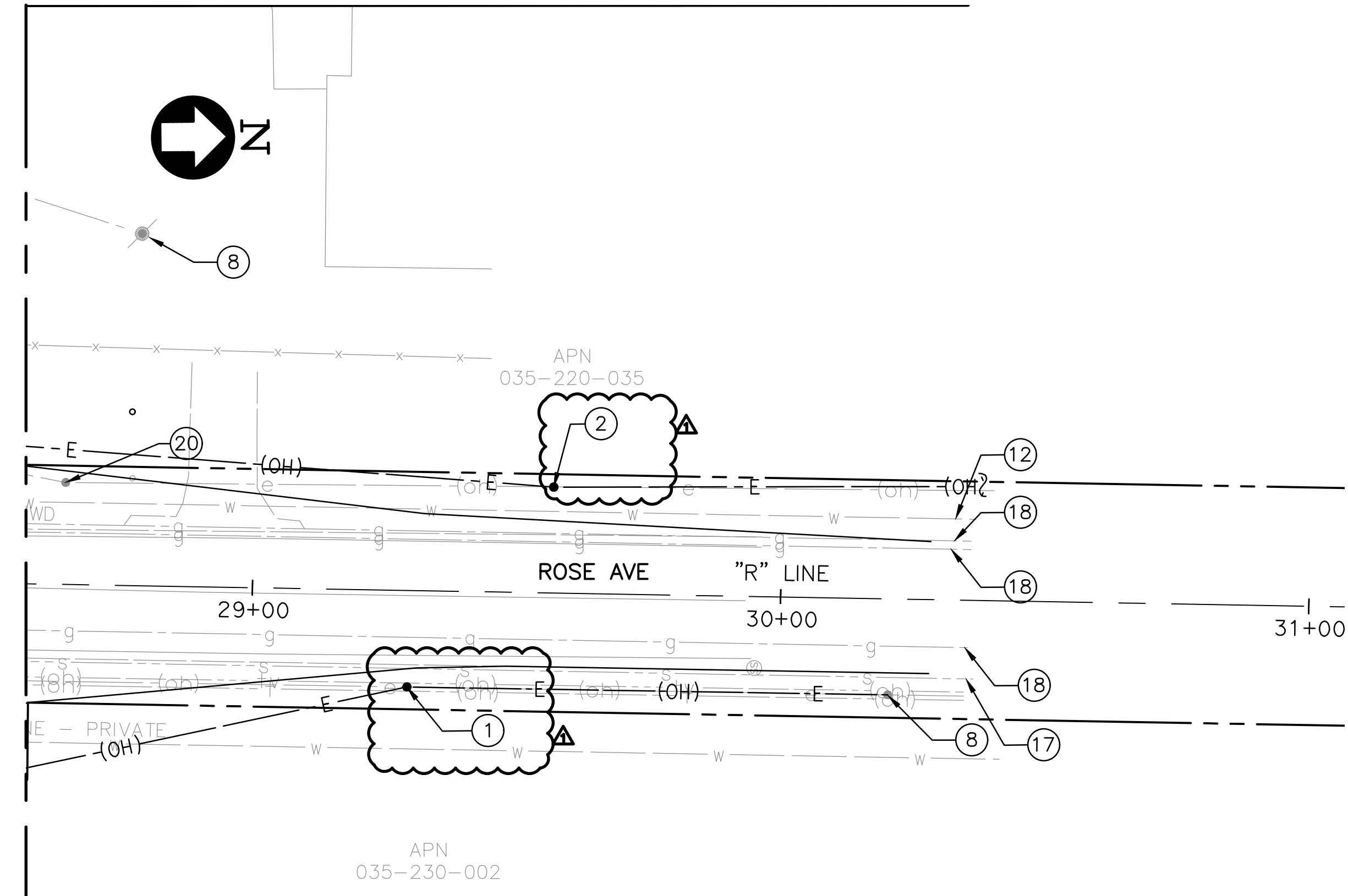
**LEGEND:**

EXISTING		PROPOSED	
-----g-----g-----	Exist GAS LINE	(OH)-----E-----	PROPOSED Elect OH LINE (INCLUDES ELECTRICAL, TELEPHONE AND TELEVISION) - BY OTHERS
(oh)-----e-----	Exist Elect OH LINE	-----W-----W-----	PROPOSED WATER LINE
----+v------(oh)-----	Exist CATV OH LINE	WV	PROPOSED WATER PIPE
---+------(oh)-----	Exist TELE OH LINE	☒	PROPOSED WATER VALVE IN CHRISTY BOX
-----s-----s-----	Exist SANITARY SEWER LINE	•	PROPOSED POLE
-----e-----e-----	Exist Elect LINE		
-----w-----w-----	Exist WATER LINE		
---+-----+-----	Exist TELE LINE		
☐	Exist SANITARY SEWER LIFT STATION		
⊗	Exist SSMH		
•	Exist WATER PIPE		
⊗	Exist WATER VALVE		
WV	Exist WATER VALVE IN CHRISTY BOX		
WM	Exist WATER METER		
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○	Exist CORROSION PROTECTION TEST STATION		



Date: 02/16/17	Revisions
Scale: AS NOTED	201618 ADDENDUM No. 1
Design: TC	
Drawn: TC	
Approved: JW	
Job No: 20167094-10	

Date: 02/16/17	Revisions
Scale: AS NOTED	201618 ADDENDUM No. 1
Design: TC	
Drawn: TC	
Approved: JW	
Job No: 20167094-10	



MATCH LINE  
SEE DRAWING NO. U-3

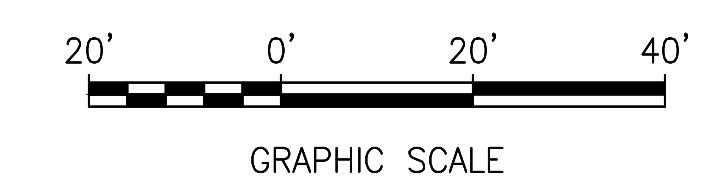
**ITEMS OF WORK:**

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- ③ RELOCATE ARV FROM WATER MAIN WITH NEW COPPER SVC LINE PER DWD 20. ②  
CD-3 ③  
CD-3
- ④ ADJUST WATER VALVE TO GRADE, SEE DETAIL ②  
CD-3
- ⑤ ADJUST CP TEST STATION BOX TO GRADE, SEE DETAIL ②  
CD-3
- ⑥ NOT USED
- ⑦ REMOVE AND REPLACE UTILITY VALVE BOX COVER WITH TRAFFIC LID. COORDINATE WITH DWD FOR PROTECTION OF TESTING EQUIPMENT.
- ⑧ PROTECT UTILITY POLE IN PLACE
- ⑨ NOT USED
- ⑩ INSTALL NEW 1" COPPER SVC LINE PER DWD STD PLANS AND SPECIFICATIONS. NEW WATER VALVE AND VALVE BOX PER DWD 17. INSTALL NEW WM BOX AND DCBP BOX PER DWD 8 AND 10. COORDINATE BOX LOCATIONS WITH PROPERTY OWNER. NEW 9# ANODE PER DWD C24. HOT TAP BY TAP MASTERS ONLY. SEE DETAILS ②  
CD-3 ③  
CD-3 ④  
CD-3 ⑤  
CD-3
- ⑪ NOT USED.

- ⑫ PROTECT WATER LINE IN PLACE
- ⑬ PROTECT CONCRETE CAP AND GAS MAIN
- ⑭ PROTECT IN PLACE PG&E ELECTRIC LINE
- ⑮ PROTECT IN PLACE TELECOM LINE
- ⑯ PROTECT EXISTING ELECTRICAL SERVICE ENCLOSURE. COORDINATE WITH CIP 196.
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CD-3 ⑤  
CD-3 ⑦  
CD-3
- ㉖ INSTALL CASING/SLEEVE THROUGH DEEPENED CURB.

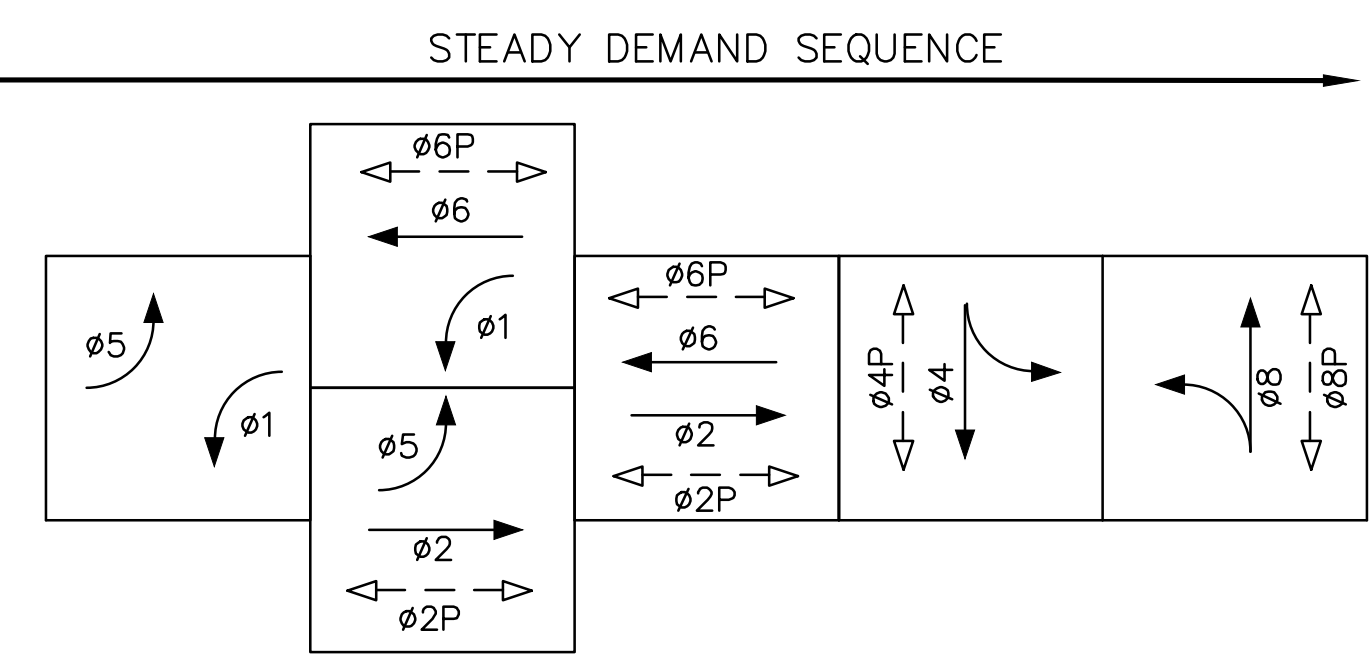
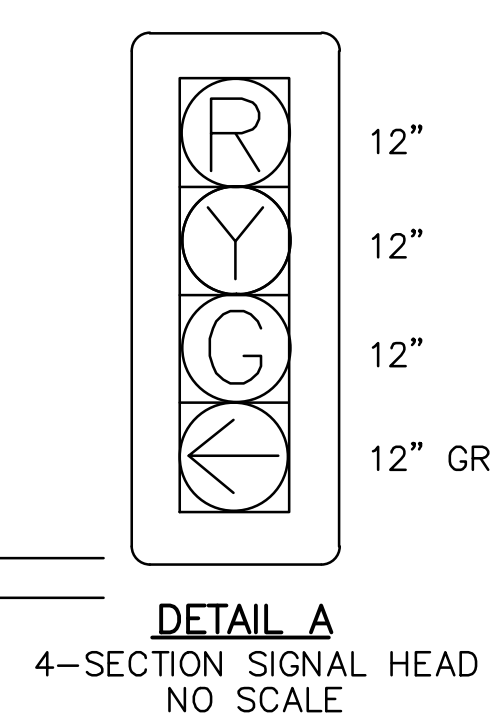
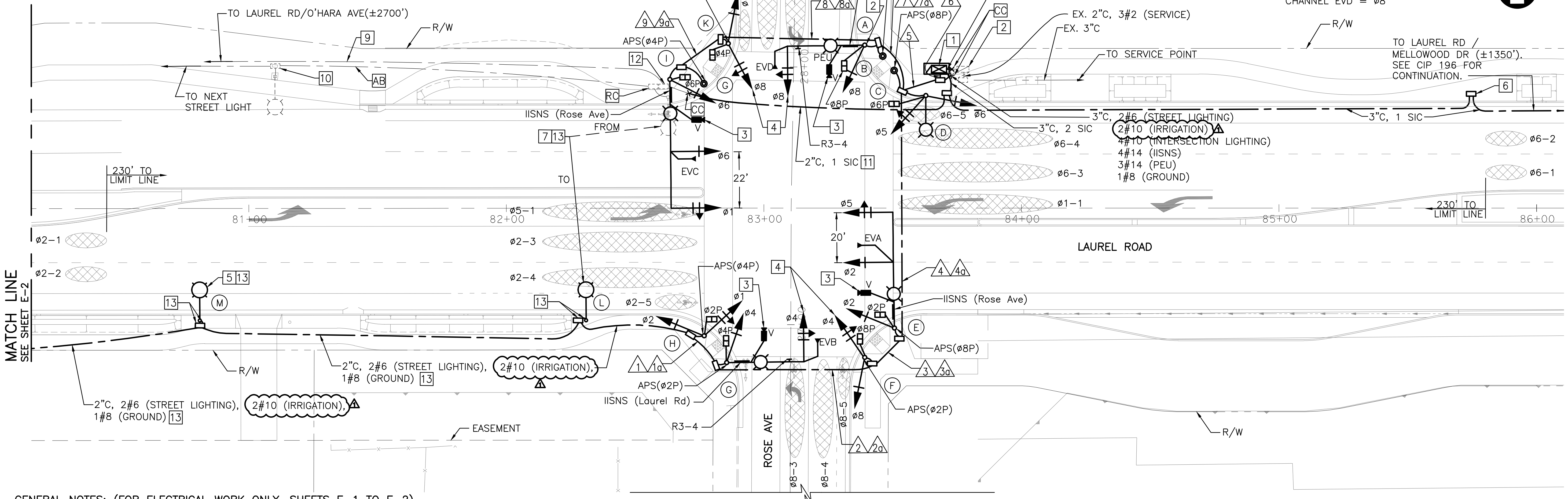
**LEGEND:**

EXISTING		PROPOSED	
-----g-----g-----	Exist GAS LINE	(OH)-----E-----	PROPOSED Elect OH LINE (INCLUDES ELECTRICAL, TELEPHONE AND TELEVISION) - BY OTHERS
(oh)-----e-----	Exist Elect OH LINE	-----W-----W-----	PROPOSED WATER LINE
----+v------(oh)-----	Exist CATV OH LINE	WV	PROPOSED WATER PIPE
----+------(oh)-----	Exist TELE OH LINE	☒	PROPOSED WATER VALVE IN CHRISTY BOX
-----s-----s-----	Exist SANITARY SEWER LINE	•	PROPOSED POLE
-----e-----e-----	Exist Elect LINE		
-----w-----w-----	Exist WATER LINE		
----+-----+-----	Exist TELE LINE		
□	Exist SANITARY SEWER LIFT STATION		
⊙	Exist SSMH		
•	Exist WATER PIPE		
⊗	Exist WATER VALVE		
WV	Exist WATER VALVE IN CHRISTY BOX		
WM	Exist WATER METER		
ETS	Exist ETS		
•	Exist POLE		
↖	Exist GUY WIRE		
⊙	Exist CORROSION PROTECTION TEST STATION		



PROJECT NOTES:

1. INSTALL CITY-FURNISHED MODEL 2070 CONTROLLER IN CITY-FURNISHED MODEL 332 CABINET ASSEMBLY. FRONT DOOR OF CONTROLLER CABINET SHALL FACE WEST. CONSTRUCT CONTROLLER FOUNDATION AND PED DETAIL PER LATEST CALTRANS STANDARD PLAN ES-3C.
2. EXISTING TYPE III-AF SERVICE CABINET WITH BATTERY BACKUP SYSTEM TO REMAIN. (INSTALLED BY CIP196 PROJECT)
3. FURNISH AND INSTALL HYBRID ITERIS VIDEO DETECTION CAMERA OR APPROVED EQUIVALENT ON LUMINAIRE MAST ARM. INSTALL VIDEO DETECTION SYSTEM IN CONTROLLER CABINET.
4. INSTALL 4-SECTION SIGNAL HEAD. SEE DETAIL A ON THIS SHEET.
5. INSTALL SINGLE-HEADED STREET LIGHT PER CITY STANDARD PLAN E-02.
6. INSTALL No.6 PULL BOX IN MAXIMUM 200 FEET INTERVAL.
7. RELOCATE EXISTING STREET LIGHT AS SHOWN ON PLAN.
8. POLE HEIGHT SHOULD BE 27 FEET.
9. INSTALL 1 SIC IN EXISTING 2"C TO LAUREL RD/O'HARA AVE (±2700').
10. TERMINATE EXISTING STREET LIGHT CONDUCTORS IN THIS PULL BOX.
11. INSTALL 2"C, 1 SIC, AND CONNECT TO EXISTING 2"C STUB-OUT AS SHOWN.
12. EXISTING COMMUNICATION PULL BOX TO REMAIN.
13. BIDS AS PART OF LIGHTING AND ELECTRICAL SYSTEM.



PROPOSED PHASE DIAGRAM

- EMERGENCY VEHICLE PRE-EMPT
- CHANNEL EVA = 02 + 05
  - CHANNEL EVB = 04
  - CHANNEL EVC = 06 + 01
  - CHANNEL EVD = 08

GENERAL NOTES: (FOR ELECTRICAL WORK ONLY, SHEETS E-1 TO E-2)

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST VERSION OF THE CONTRA COSTA COUNTY STANDARD PLANS, 2014 CA MUTCD, CALTRANS STANDARD PLANS AND SPECIFICATIONS DATED MAY 2015 WITH SUBSEQUENT REVISIONS
2. CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (U.S.A) AT 1-800-227-2600 OR 811 AT LEAST TWO FULL WORKING DAYS PRIOR TO ALL EXCAVATION WORK.
3. CONTRACTOR SHALL VERIFY OVERHEAD AND UNDERGROUND CLEARANCE REQUIREMENTS WITH PG&E, AT&T AND OTHER AFFECTED UTILITIES PRIOR TO THE START OF WORK.
4. DEMOLITION OF EXISTING FEATURES SHALL BE LIMITED TO THE ITEMS SHOWN ON THE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE ALL EXISTING IMPROVEMENTS DAMAGED BY HIS OPERATIONS, AT HIS EXPENSE.
5. THE LOCATION OF ALL PULL BOXES, CONDUITS AND OTHER EQUIPMENT SHOWN ON THIS PLAN ARE APPROXIMATE AND MAY BE CHANGED TO SUIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
6. ALL NEW PULL BOXES SHALL NOT BE PLACED WITHIN DRIVEWAY AND CURB RAMP AREAS.
7. CONTRACTOR SHALL VERIFY AND MAINTAIN EXISTING CONDUITS AND CONDUCTORS FOR EXISTING STREET LIGHTING SYSTEM. IF EXISTING CONDUITS AND CONDUCTORS FOR STREET LIGHTING IS DISTURBED BY CONSTRUCTION, THE CONTRACTOR SHALL INSTALL NEW CONDUITS AND CONDUCTORS AT HIS EXPENSE.
8. THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
9. THE CONTRACTOR SHALL CONTACT PG&E FOR NEW SERVICE CONNECTIONS AND VERIFY WITH PG&E REGARDING SERVICE PULL BOX, CONDUIT, AND CONDUCTOR REQUIREMENTS PRIOR TO BEGINNING OF WORK.

TRAFFIC SIGNAL AND STREET LIGHT POLES WILL BE FURNISHED BY THE CITY. CONTRACTOR SHALL COORDINATE WITH CITY TO ARRANGE PICK UP OF SIGNAL POLES AT THE CITY'S MAINTENANCE YARD. THE LOCATION OF CITY'S MAINTENANCE YARD IS AT THE SOUTH EAST INTERSECTION OF NEROLY ROAD AND MAIN STREET.



10. ALL PULL BOXES SHALL BE No. 5, UNLESS OTHERWISE NOTED ON THE PLAN. STREET LIGHTING PULL BOX COVERS SHALL BE INSCRIBED "STREET LIGHTING", SIGNAL INTERCONNECT PULL BOX COVERS SHALL BE INSCRIBED "INTERCONNECT" TRAFFIC SIGNAL PULL BOX COVERS SHALL BE INSCRIBED "TRAFFIC SIGNAL". "CALTRANS" INSCRIPTION SHALL NOT BE USED.
11. LED INTERNALLY ILLUMINATED STREET NAME SIGN SHALL BE SOUTHERN MANUFACTURING MODEL: CLEAN PROFILE LED ILLUMINATED SIGN, OR APPROVED EQUAL.
12. ALL NEW ELECTRICAL STANDARDS INCLUDING PPB POSTS SHALL BE PAINTED BLACK TO MATCH COLOR OF LED POST-TOP DECORATIVE STREET LIGHT POLES. CONTRACTOR SHALL PROVIDE PAINT CHIP SAMPLE TO THE CITY FOR APPROVAL.
13. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL CONDUITS AND CONDUCTORS AS SHOWN ON PLAN, INCLUDING THE CONDUITS AND CONDUCTORS FROM THE SERVICE CABINET TO THE PG&E SERVICE POINT.
14. ALL PULL BOXES SHALL BE No.6 UNLESS OTHERWISE SHOWN ON THE PLAN.

Date: 02/16/17	Scale: AS NOTED	Design: TC	Drawn: JC	Approved: JW	Job No: 20167094-10
No. 1	2016718 ADDENDUM No. 1				
Revisions					
Drawing Number: E-1					
47 OF 59					

**CONDUCTOR SCHEDULE**

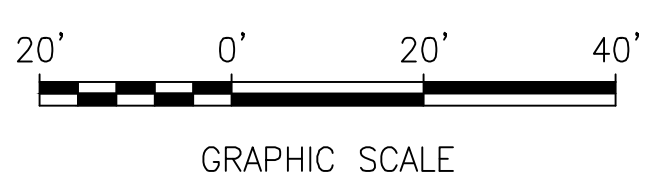
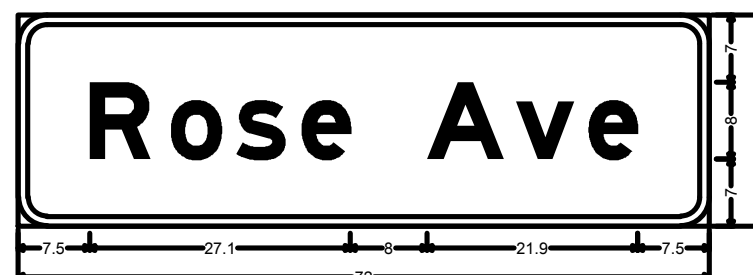
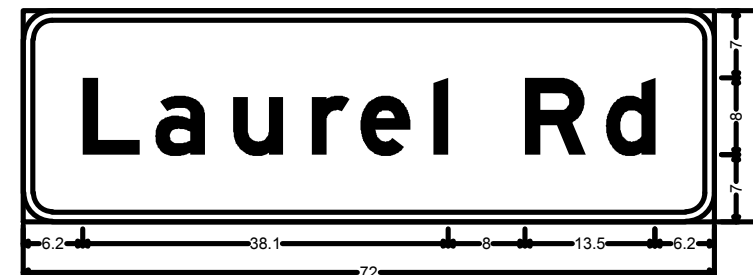
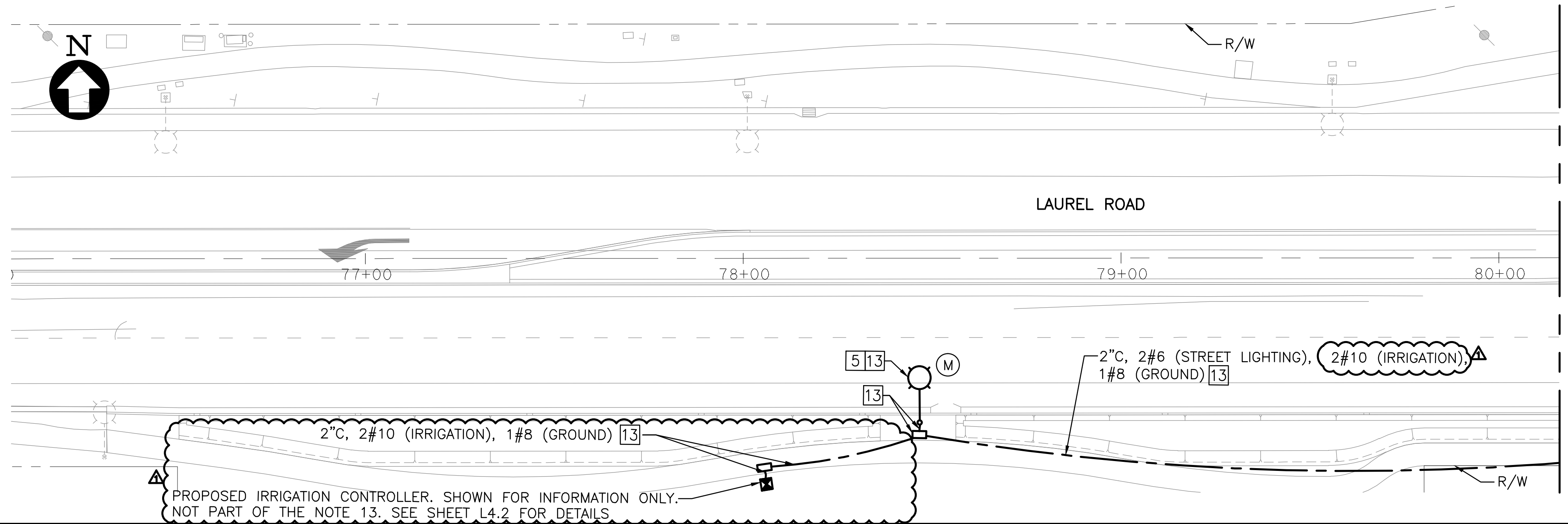
AWG	CONDUCTOR DESIGNATION	RUN NUMBER														
		1	1a	2	2a	3	3a	4	4a	5	6	7	7a	8	8a	9
No. 14	Ø1	3		3		3		3		6	6	3		3		
	Ø2	3		3		3		3		3	3					
	Ø4			3		3		3		6	6	3		3		
	Ø5							3		3	3					
	Ø6								3	3	3		3		3	
	Ø8					3		3		6	6	3		3		
	Ø2P	2		2		2		2		2	2					
	Ø4P			2		2		2		4	4	2		2		
	Ø6P								2	2	2		2		2	
	Ø8P					2		2		4	4	2				
	APS(Ø2P)			2		2		2		2	2					
	APS(Ø4P)	2		2		2		2		4	4	2		2		2
	APS(Ø6P)								2	2	2		2			
	APS(Ø8P)							2		2	2					
	PPB COMMON	1		1		1		1		2	2					
	PEU								3		3					
	SPARES	3		3		3		3		6	6	3		3		3
	IISNS			2		2		2		4	2		2		2	
TOTAL No. 14	14		23		28		33		64	57	30		25		15	
No. 10	LUMINAIRES			2		2		2		4		2		2		2
	IRRIGATION	2		2		2		2		2		2		2		2
	TOTAL No. 10	2		4		4		4		6		2		2		2
No. 8	SIGNAL COMMON	1		1		1		1		2	2	1		1		1
	GROUND (BARE COPPER)	1		1		1		1		2	2	1		1		1
	TOTAL No. 8	2		2		2		2		4	4	2		2		2
No. 6	STREET LIGHTING (240V)	2		2		2		2								
	EMERGENCY VEHICLE PREEMPTION CABLE			1		1		2		4	4	2		1		1
CABLE	VIDEO DETECTION CABLE			1		1		2		4	4	2		1		1
	1/4" PULL ROPE	1		1		1		1		2	2	1		1		1
	PERCENT FILL (%)	5		8		9		10		9	8	9		7		6
CONDUIT SIZE (INCHES)	4	1.5	4	1.5	4	1.5	4	1.5	2-42	4	4	1.5	4	1.5	4	1.5

**POLE AND EQUIPMENT SCHEDULE**

LOCATION	STANDARD			VEH SIG MTG		PED SIGNAL*		APS		LED LUMINAIRE (WATTS)	SPECIAL REQUIREMENTS
	TYPE	SMA	LMA	MAST ARM	POLE	Ø	MTG	Ø	ARROW		
(A)	19-4-100	30'	15'	MAS	SV-1-T	8	SP-1-T			101	INSTALL PEU ON TOP OF POLE. INSTALL EVD ON TOP OF Ø8 SIGNAL HEAD. INSTALL R3-4 ON SIGNAL MAST ARM. INSTALL LED IISNS (Laurel Rd) ON SIGNAL MAST ARM. SEE DETAIL A ON THIS SHEET. INSTALL NEW HYBRID ITERIS VIDEO DETECTION CAMERA OR APPROVED EQUIVALENT ON LUMINAIRE MAST ARM. POLE HEIGHT SHOULD BE 27 FEET.
(B)	APS POST								6	←	
(C)	APS POST								8	→	
(D)	15TS				SV-2-T	6	SP-1-T			101	
(E)	26-4-100	45'	15'	MAS MAS	SV-1-T	2	SP-1-T	8	←	101	INSTALL EVA ON TOP OF Ø2 SIGNAL HEAD. INSTALL LED IISNS (Rose Ave) ON SIGNAL MAST ARM. SEE DETAIL B ON THIS SHEET. INSTALL NEW HYBRID ITERIS VIDEO DETECTION CAMERA OR APPROVED EQUIVALENT ON LUMINAIRE MAST ARM.
(F)	1-B				TV-2-T	8	SP-1-T	2	→		
(G)	19-4-100	30'	15'	MAS	SV-1-T	4	SP-1-T	2	←	101	INSTALL EVB ON TOP OF Ø4 SIGNAL HEAD. INSTALL R3-4 ON SIGNAL MAST ARM. INSTALL LED IISNS (Laurel Rd) ON SIGNAL MAST ARM. SEE DETAIL A ON THIS SHEET. INSTALL NEW HYBRID ITERIS VIDEO DETECTION CAMERA OR APPROVED EQUIVALENT ON LUMINAIRE MAST ARM.
(H)	1-B				TV-2-T	2	SP-1-T	4	→		
(I)	29-5-100	50'	15'	MAS MAS	SV-1-T	6	SP-1-T			101	INSTALL EVC ON TOP OF Ø6 SIGNAL HEAD. INSTALL LED IISNS (Rose Ave) ON SIGNAL MAST ARM. SEE DETAIL B ON THIS SHEET. INSTALL NEW HYBRID ITERIS VIDEO DETECTION CAMERA OR APPROVED EQUIVALENT ON LUMINAIRE MAST ARM.
(J)	APS POST								4	←	
(K)	1-B				TV-2-T	4	SP-1-T	6	→		
(L)	CITY OF OAKLEY STANDARD STREETLIGHT		12'							56	RELOCATE EXISTING STREET LIGHT AS SHOWN ON SHEET E-1.
(M)	CITY OF OAKLEY STANDARD STREETLIGHT		12'							56	2 LOCATIONS

\* ALL PEDESTRIAN SIGNAL HEADS SHALL BE COUNT-DOWN TYPE  
 ○ NEW POLE AND EQUIPMENT. TRAFFIC SIGNAL POLES WILL BE FURNISHED BY THE CITY.

TRAFFIC SIGNAL AND STREET LIGHT POLES WILL BE FURNISHED BY THE CITY. CONTRACTOR SHALL COORDINATE WITH CITY TO ARRANGE PICK UP OF SIGNAL POLES AT THE CITY'S MAINTENANCE YARD. THE LOCATION OF CITY'S MAINTENANCE YARD IS AT THE SOUTH EAST INTERSECTION OF NEROLY ROAD AND MAIN STREET.



PROPOSED IRRIGATION CONTROLLER. SHOWN FOR INFORMATION ONLY. NOT PART OF THE NOTE 13. SEE SHEET L4.2 FOR DETAILS.