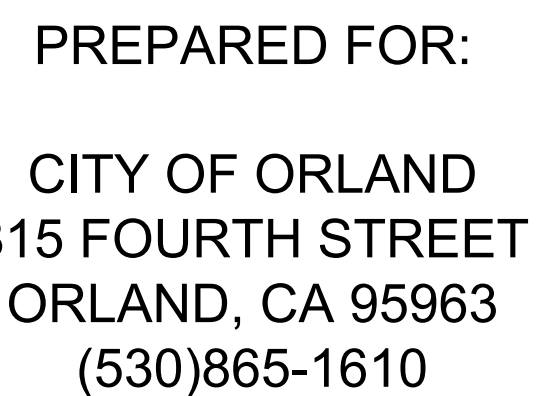


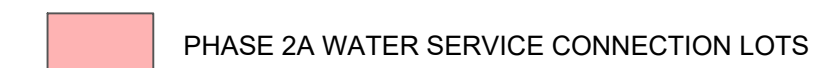
DIVISION OF INTEGRATED REGIONAL WATER MANAGEMENT
SMALL COMMUNITY DROUGHT RELIEF PROGRAM
CITY OF ORLAND
ORLAND EMERGENCY GROUNDWATER RESOURCE PROJECT
PHASE 2A



SITE LOCATION MAP

(NOT TO SCALE)

LEGEND



SCOPE OF WORK:

THIS IS AN EMERGENCY CONTRACT TO INSTALL A WATER DISTRIBUTION SYSTEM. THE WATER DISTRIBUTION SYSTEM WILL CONNECT SEVERAL RESIDENTIAL PROPERTIES TO THE SYSTEM. METERS WILL BE PROVIDED BY THE CITY OF ORLAND AND INSTALLED BY THE CONTRACTOR. INSTALLATION OF BACKFLOW PREVENTERS IS NOT PART OF THIS SCOPE OF WORK. WORK IS LOCATED ON PRIVATE AND MUNICIPAL PROPERTY IN GLENN COUNTY. NO BUILDING STRUCTURES ARE ASSOCIATED WITH THIS PROJECT. (NO BUILDING ANALYSIS INCLUDED.)

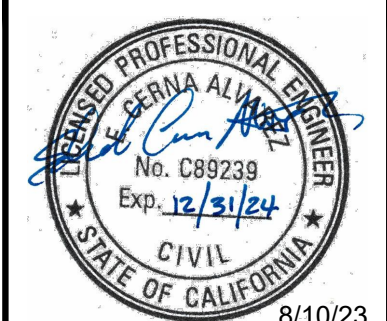
WORK INCLUDES THE FOLLOWING PRINCIPAL ITEMS:

- INSTALL PVC WATER MAIN PIPE, RANGING IN SIZE FROM 4" TO 10" DIAMETER.
- EXCAVATE, BACKFILL AND COMPACT PIPE TRENCHES.
- INSTALL FIRE HYDRANTS, GATE VALVES, AND BLOWOFFS.
- REMOVE AND REPLACE PAVEMENT.

THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, IS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF GEI CONSULTANTS AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF GEI CONSULTANTS.

GEI PROJECT NO. 1408520
August 2023

ISSUED FOR BID



DWG. NO.
G-01

SHEET NO.
1 OF 56

REV NO.

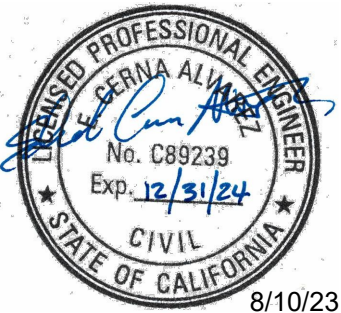
CERNA ALVAREZ, EDUARDO - C:\LOCAL - CAD\Orland\9.0 CAD (LOCAL)\Design\Sheets\Phase 2\AG02-G04.dwg - 8/10/2023

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4	G-04	GENERAL NOTES AND CONSTRUCTION NOTES
5	G-05	BASIS OF SURVEY
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STRUCTURAL DETAILS		
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COUNTY ROAD K 1/2		
21	CA01-01	COUNTY ROAD K 1/2 LATERAL PLAN & PROF STA 100+00 TO 110+00
22	CA01-02	COUNTY ROAD K 1/2 LATERAL PLAN & PROF STA 110+00 TO 113+52.1
PRIVATE ST (LASSEN ST)		
23	CA02-01	PRIVATE ST (LASSEN ST) LATERAL PLAN & PROF STA 200+00 TO 206+82.8
COUNTY ROAD KK		
24	CA03-01	COUNTY ROAD KK LATERAL PLAN & PROF STA 300+00 TO 310+00
25	CA03-02	COUNTY ROAD KK LATERAL PLAN & PROF STA 310+00 TO 320+00
26	CA03-03	COUNTY ROAD KK LATERAL PLAN & PROF STA 320+00 TO 330+00
27	CA03-04	COUNTY ROAD KK LATERAL PLAN & PROF STA 330+00 TO 340+00
28	CA03-05	COUNTY ROAD KK LATERAL PLAN & PROF STA 340+00 TO 347+40.9
COUNTY ROAD 20		
29	CA04-01	COUNTY ROAD 20 LATERAL PLAN & PROF STA 400+00 TO 410+00
30	CA04-02	COUNTY ROAD 20 LATERAL PLAN & PROF STA 410+00 TO 420+00
31	CA04-03	COUNTY ROAD 20 LATERAL PLAN & PROF STA 420+00 TO 430+00
32	CA04-04	COUNTY ROAD 20 LATERAL PLAN & PROF STA 430+00 TO 440+00
33	CA04-05	COUNTY ROAD 20 LATERAL PLAN & PROF STA 440+00 TO 450+00
34	CA04-06	COUNTY ROAD 20 LATERAL PLAN & PROF STA 450+00 TO 452+94.3

DRAWING INDEX		
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COUNTY ROAD MM		
35	CA05-01	COUNTY ROAD MM LATERAL PLAN & PROF STA 500+00 TO 510+00
36	CA05-02	COUNTY ROAD MM LATERAL PLAN & PROF STA 510+00 TO 512+64
COUNTY ROAD 19		
37	CA06-01	COUNTY ROAD 19 LATERAL PLAN & PROF STA 600+00 TO 610+00
38	CA06-02	COUNTY ROAD 19 LATERAL PLAN & PROF STA 610+00 TO 620+00
39	CA06-03	COUNTY ROAD 19 LATERAL PLAN & PROF STA 620+00 TO 630+00
40	CA06-04	COUNTY ROAD 19 LATERAL PLAN & PROF STA 630+00 TO 640+00
41	CA06-05	COUNTY ROAD 19 LATERAL PLAN & PROF STA 640+00 TO 650+00
42	CA06-06	COUNTY ROAD 19 LATERAL PLAN & PROF STA 650+00 TO 652+21.3
COUNTY ROAD 200		
43	CA07-01	COUNTY ROAD 200 LATERAL PLAN & PROF STA 700+00 TO 710+00
44	CA07-02	COUNTY ROAD 200 LATERAL PLAN & PROF STA 710+00 TO 720+00
45	CA07-03	COUNTY ROAD 200 LATERAL PLAN & PROF STA 720+00 TO 730+00
46	CA07-04	COUNTY ROAD 200 LATERAL PLAN & PROF STA 730+00 TO 740+17.9
PRIVATE ST (CR KK)		
47	CA08-01	PRIVATE ST (CR KK) LATERAL PLAN & PROF STA 800+00 TO 801+90
COUNTY ROAD M		
48	CA09-01	COUNTY ROAD M LATERAL PLAN & PROF STA 900+00 TO 906+40.1
LINDA PLACE		
49	CA10-01	LINDA PLACE LATERAL PLAN & PROF STA 1000+00 TO 1004+35
PRIVATE ST 1 (CR 20)		
50	CA11-01	PRIVATE ST 1 (CR 20) LATERAL PLAN & PROF STA 1100+00 TO 1104+30
JACEY LANE		
51	CA12-01	JACEY LANE LATERAL PLAN & PROF STA 1200+00 TO 1204+30
PRIVATE ST 2 (CR 20)		
52	CA13-01	PRIVATE ST 2 (CR 20) LATERAL PLAN & PROF STA 1300+00 TO 1302+95
KAITLYN LANE		
53	CA14-01	KAITLYN LANE LATERAL PLAN & PROF STA 1400+00 TO 1404+35
DREWS WAY		
54	CA15-01	DREWS WAY LATERAL PLAN & PROF STA 1500+00 TO 1510+00
55	CA15-02	DREWS WAY LATERAL PLAN & PROF STA 1510+00 TO 1514+71.7
WATER SERVICES		
56	CA16-01	WATER SERVICES



Attention:
0 1"
If this scale bar does not measure 1" then drawing is not original scale.



Designed:	E. CERNA ALVAREZ
Drawn:	I. CRUZ
Checked:	M. MARTIN
Approved:	S. GALA
P.E. No:	C89239
GEI Project:	1408520



CITY OF ORLAND
815 FOURTH ST.
ORLAND, CA 95963

ORLAND EMERGENCY
GROUNDWATER
RESOURCE PROJECT
PHASE 2A
815 FOURTH STREET
ORLAND, CA

0			
NO	DATE	ISSUE/REVISION	APP

SHEET NAME

DRAWING INDEX

DWG. NO.

G-02

SHEET NO.
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SYMBOLS			LINE TYPES			ABBREVIATIONS		ABBREVIATIONS (CONTINUED)	
WATER SUPPLY SYSTEM			MISCELLANEOUS			WATER SUPPLY SYSTEM			
EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION	
		BLOWOFF ASSEMBLY (SEE DWG. NO. CG-03)			MAIL BOX			UG WATER SERVICE	
		FIRE HYDRANT ASSEMBLY (SEE DWG. NO. CG-02)			SIGN POST			UG WATER MAIN / CONTROL LINE	
		SINGLE WATER SERVICE (SEE DWG. NO. CG-01)			IRON GATE POST	SANITARY SEWER SYSTEM			
		DOUBLE WATER SERVICE (SEE DWG. NO. CG-01)	COMMUNICATION			EXISTING	PROPOSED	DESCRIPTION	
		DI GATE VALVE (PLAN & PROFILE)			TELEPHONE PEDESTAL			UG SANITARY SEWER MAIN	
		DI CROSS (PLAN & PROFILE)			MANHOLE TELEPHONE			UG SANITARY SEWER FORCE MAIN	
		DI TEE (PLAN & PROFILE)	DRAINAGE UTILITIES			EXISTING	PROPOSED	DESCRIPTION	
		DI 90° BEND (PLAN & PROFILE)	ELECTRICAL POWER					UG STORM LINE	
		DI 45° BEND (PLAN & PROFILE)	NATURAL GAS			EXISTING	PROPOSED	DESCRIPTION	
		DI 22.5° BEND (PLAN & PROFILE)	EXISTING	PROPOSED	DESCRIPTION			OVERHEAD ELECTRICAL	
		DI 11.25° BEND (PLAN & PROFILE)			NATURAL GAS METER			UNDERGROUND ELECTRICAL	
		DI REDUCER (PLAN & PROFILE)	HATCH LEGEND			EXISTING	PROPOSED	DESCRIPTION	
		MONITORING WELL			HMA, DEMO			UG GAS	
		PRIVATE WELL			HMA, STANDARD	COMMUNICATION			
		METER PIT			CONCRETE SIDEWALK	EXISTING	PROPOSED	DESCRIPTION	
		MANHOLE WATER						UNDERGROUND COMMUNICATIONS	
		SURVEY POINT LOCATIONS						UNDERGROUND TELEPHONE	
SANITARY SEWER SYSTEM								UNDERGROUND FIBER	
EXISTING	PROPOSED	DESCRIPTION	MISCELLANEOUS			EXISTING	PROPOSED	DESCRIPTION	
		MANHOLE SANITARY			HOSE BIBB			HIGH DENSITY POLYETHYLENE	
DRAINAGE UTILITIES					HARNESSED MECHANICAL COUPLING			HARNESSED MECHANICAL COUPLING	
EXISTING	PROPOSED	DESCRIPTION			HORIZONTAL POINT OF INTERSECTION			HORIZONTAL POINT OF INTERSECTION	
		CATCH BASIN (CURB INLET)			HOSE BIBB			HOSE BIBB	
ELECTRICAL POWER					HARNESSED MECHANICAL COUPLING			HARNESSED MECHANICAL COUPLING	
EXISTING	PROPOSED	DESCRIPTION			HORIZONTAL POINT OF INTERSECTION			HORIZONTAL POINT OF INTERSECTION	
		ELECTRICAL PEDESTAL			HOSE BIBB			HOSE BIBB	
		GUY ANCHOR			HARNESSED MECHANICAL COUPLING			HARNESSED MECHANICAL COUPLING	
		LIGHT POLE			HORIZONTAL POINT OF INTERSECTION			HORIZONTAL POINT OF INTERSECTION	
		MANHOLE ELECTRIC			HOSE BIBB			HOSE BIBB	
		POWER POLE			HARNESSED MECHANICAL COUPLING			HARNESSED MECHANICAL COUPLING	
		POWER TRANSFORMER			HORIZONTAL POINT OF INTERSECTION			HORIZONTAL POINT OF INTERSECTION	
MISC					HOSE BIBB			HOSE BIBB	
UTILITY/FACILITY SURVEY DESCRIPTION TAG					HARNESSED MECHANICAL COUPLING			HARNESSED MECHANICAL COUPLING	

IRRD
GR-967.15
12"X10"X1/8"X1/8"

CG-01

DISCIPLINE IDENTIFIER

SHEET REFERENCE NUMBER

DRAWING NUMBER DESIGNATION

DISCIPLINE	DISCIPLINE IDENTIFIER
GENERAL	G
TYPICAL DETAILS	CG
STRUCTURAL DETAILS	SG
PIPELINES	CA

SECTION LEGEND

INDICATES SECTION DESIGNATION

INDICATES DRAWING NUMBER ON WHICH SECTION IS DRAWN

DETAIL

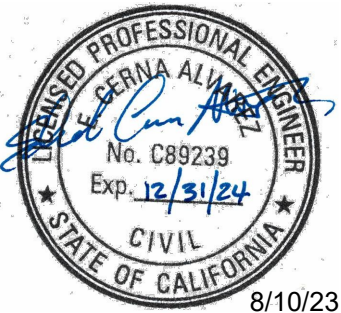
INDICATES DETAIL NUMBER

INDICATES DRAWING NUMBER ON WHICH DETAIL IS DRAWN

ISSUED FOR BID



Attention:
0 1"
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Designed: E. CERNA ALVAREZ
Drawn: I. CRUZ
Checked: M. MARTIN
Approved: S. GALA
P.E. No: C89239
GEI Project: 1408520



ORLAND EMERGENCY
GROUNDWATER
RESOURCE PROJECT
PHASE 2A
815 FOURTH STREET
ORLAND, CA

0			
NO	DATE	ISSUE/REVISION	APP

SHEET NAME
SYMBOLS AND ABBREVIATIONS

DWG. NO.

G-03

SHEET NO.

3 OF 56

1. PERFORM ALL CONSTRUCTION IN ACCORDANCE WITH THESE PLANS, PROJECT SPECIFICATIONS, THE CITY OF ORLAND'S STANDARD PLANS AND SPECIFICATIONS, AND GLENN COUNTY'S STANDARD PLANS AND SPECIFICATIONS.
2. PERFORM CONSTRUCTION WORK IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION, WHERE NOT IN CONFLICT WITH THESE PLANS AND SPECIFICATIONS.
3. THE CONTRACTOR SHALL NOTIFY THE CITY OF ORLAND'S AND GLENN COUNTY'S REPRESENTATIVE TWO WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ALSO NOTIFY THE CITY OF ORLAND PUBLIC WORKS DEPARTMENT AND GLENN COUNTY PUBLIC WORKS AGENCY PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES WITHIN THEIR CORRESPONDING RIGHT-OF-WAY.
4. THE CONTRACTOR SHALL OBTAIN AN ENCRoACHMENT PERMIT AND ALL OTHER PERMITS REQUIRED BY THE CITY OF ORLAND AND GLENN COUNTY FOR WORK WITHIN THEIR RIGHT-OF-WAY. THE CONTRACTOR SHALL OBTAIN ALL OTHER PERMITS REQUIRED TO PERFORM THE WORK AND SHALL ABIDE BY THE CONDITIONS SET IN SAID PERMITS.
5. PERFORM ALL CONSTRUCTION IN COMPLIANCE WITH THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY REGULATIONS, THE APPLICABLE REQUIREMENTS OF OSHA SAFETY AND HEALTH STANDARDS FOR CONSTRUCTION, AND THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
6. AN OSHA PERMIT IS REQUIRED WHEN WORKERS ENTER TRENCHES OR EXCAVATIONS FIVE (5) FEET IN DEPTH OR DEEPER. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND CONFORM TO THE REQUIREMENTS OF OSHA.
7. THE LOCATION, SIZE, AND ELEVATIONS OF UNDERGROUND UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND BASED ON LIMITED AVAILABLE DATA. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES SO THAT THOSE COMPANIES MAY MARK THE LOCATIONS OF THEIR FACILITIES PRIOR TO CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL CONTACT UNDERGROUND UTILITIES SERVICE ALERT (USA) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION. FIELD VERIFY THE LOCATION, SIZE, AND DEPTH OF EXISTING UTILITIES AND PROTECT IN PLACE PRIOR TO ANY CONSTRUCTION ACTIVITIES. THE FOLLOWING AGENCIES ARE KNOWN TO HAVE FACILITIES WITHIN THE CONSTRUCTION AREA:
 - AT&T
 - COMCAST
 - ORLAND UNIT WATER USERS ASSOCIATION
 - PG&E
 - GLENN COUNTY
 - CITY OF ORLAND

3. ALL UNDERGROUND AND ABOVE GROUND UTILITIES SHALL BE PROTECTED IN PLACE. IF THE CONTRACTOR FINDS CONFLICT BETWEEN CONTRACT FACILITIES AND EXISTING FACILITIES, THE CONTRACTOR SHALL NOTIFY CITY OF ORLAND REPRESENTATIVE AND CITY OF ORLAND PUBLIC WORKS DEPARTMENT IN WRITING WITHIN 24 HOURS.
9. CONDUCT ALL OPERATIONS IN A WAY THAT OFFERS THE LEAST POSSIBLE OBSTRUCTION AND INCONVENIENCE TO THE PUBLIC. ALL WORK SHALL BE PROSECUTED WITH DUE REGARD TO THE RIGHTS AND SAFETY OF THE PUBLIC.
10. SAW CUT ALL CONCRETE FACILITIES AND PAVED AREAS TO BE REMOVED IN A NEAT, STRAIGHT LINE, PARALLEL TO THE NEW PIPELINE. PROTECT THE CUT EDGE FROM CRUSHING AND RE-CUT ALL BROKEN EDGES PRIOR TO PAVING OPERATIONS. REPLACE CONCRETE FACILITIES IN KIND.
11. PROTECT FROM INJURY OR DAMAGE ALL TREES, SHRUBBERY, FENCES, SIGNS, SURVEY MARKERS AND MONUMENTS, BUILDINGS AND STRUCTURES, UNDER OR ABOVE GROUND UTILITIES, ALL HIGHWAY AND STREET FACILITIES, AND ANY OTHER FACILITIES THAT ARE NOT TO BE REMOVED WITHIN OR ADJACENT TO THE CONSTRUCTION AREA. PROVIDE AND INSTALL SUITABLE SAFEGUARDS TO PROTECT SUCH OBJECTS FROM INJURY OR DAMAGE. REPLACE OR RESTORE ALL OBJECTS, INJURED OR DAMAGED DURING THE PROSECUTION OF THE WORK, TO A CONDITION AS GOOD AS WHEN THE CONTRACTOR ENTERED UPON THE WORK, OR AS GOOD AS REQUIRED BY THE PLANS AND SPECIFICATIONS IF ANY SUCH OBJECTS ARE A PART OF THE WORK BEING PERFORMED. SURVEY MARKERS AND MONUMENTS DAMAGED OR REMOVED WILL BE REPLACED BY A LICENSED SURVEYOR AND PAID FOR BY THE CONTRACTOR.
12. OBTAIN APPROVAL FROM THE CITY OF ORLAND REPRESENTATIVE AND CITY OF ORLAND PUBLIC WORKS DEPARTMENT PRIOR TO CONSTRUCTION OF ANY DEVIATION FROM THESE PLANS, PROJECT SPECIFICATIONS, AND THE CITY AND COUNTY STANDARD PLANS AND/OR STANDARD SPECIFICATIONS.
13. NOTIFY THE CITY OF ORLAND PUBLIC WORKS DEPARTMENT TWENTY-FOUR (24) HOURS BEFORE WATER VALVE OPERATIONS ARE PERFORMED. ALL WATER SYSTEM VALVES SHALL BE OPERATED BY CITY STAFF ONLY.
14. POTHOLE ALL UTILITY CROSSING LOCATIONS AHEAD OF WATER MAIN AND WATER SERVICE INSTALLATION. NOTIFY CITY OF ORLAND REPRESENTATIVE AND CITY OF ORLAND PUBLIC WORKS DEPARTMENT OF ANY DISCREPANCIES FROM THE PLANS IN WRITING WITHIN 24 HOURS.

1. THE LOCATIONS OF WATER SERVICES, FIRE HYDRANTS, AND BLOWOFFS ARE SHOWN IN PLANS AS A SCHEMATIC. FINAL LOCATIONS SHALL BE AS DIRECTED BY THE CITY OF ORLAND REPRESENTATIVE. CONTRACTOR SHALL COORDINATE LOCATION OF WATER SERVICES, FIRE HYDRANTS, AND BLOWOFFS WITH THE CITY OF ORLAND REPRESENTATIVE AND THE CITY OF ORLAND PUBLIC WORKS DEPARTMENT 7 DAYS IN ADVANCE OF INSTALLATION.
2. WHERE APPLICABLE: CURB, GUTTER, SIDEWALK, AND DRIVEWAY TO BE REPLACED/REPAIRED PER CITY OF ORLAND STANDARDS. WATER SERVICE TUBING MAY BE BORED WITH THE APPROVAL FROM THE CITY OF ORLAND. ALL OTHER INSTALLATIONS WILL REQUIRE REPLACEMENT/REPAIR OF CONCRETE.
3. PAVEMENT PATCHES AND BACKFILL COMPACTION SHALL CONFORM TO PUBLIC ROAD STANDARDS, GLENN COUNTY ENCROACHMENT PERMIT REQUIREMENTS, AND TRENCH RESTORATION DETAILS SHOWN ON DWG. NO. CG-04. STRIPING SHALL BE REPAIRED IN ACCORDANCE TO CITY OF ORLAND AND GLENN COUNTY SPECIFICATIONS AS APPLICABLE.
4. THRUST BLOCKS SHALL BE CONSTRUCTED AT PIPE TEES, BENDS, CROSSES, REDUCERS, DEAD-ENDS, AND VALVES PER DETAIL 1, DWG. NO. CG-03.
5. FUGITIVE DUST CONTROL MEASURES SHALL COMPLY WITH REQUIREMENTS FROM THE GLENN COUNTY AIR POLLUTION CONTROL DISTRICT.
6. WHERE APPLICABLE, IF WATER SERVICES AND FIRE HYDRANT LATERALS ARE INSTALLED VIA OPEN CUT INSTALLATION, THEN THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REPLACING CONCRETE CURB AND GUTTER, CONCRETE SIDEWALK, AND ASPHALT ROADWAY. NOTE THAT THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ALL DISTURBED AND DAMAGED AREAS IN ACCORDANCE WITH CITY OF ORLAND AND GLENN COUNTY STANDARDS.
7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING SOIL AND GROUNDWATER LEVEL CONDITIONS AS NECESSARY TO ENSURE WELL-INFORMED TRENCH PLANNING AND CONSTRUCTION.
8. CONTRACTOR SHALL NOT EXCEED A MAXIMUM OF 1" OF JOINT DEFLECTION AT EACH PIPE JOINT TO ACCOMMODATE MINOR VERTICAL AND HORIZONTAL CHANGES IN ELEVATION AND ALIGNMENT.
9. CONTRACTOR SHALL MAINTAIN A 4' MINIMUM OF UNDISTURBED EARTH SURROUNDING ALL POWER AND UTILITY POLES.

1. ALL PUBLIC STREETS THAT ARE TO BE CLOSED OR INTERRUPTED DUE TO CONSTRUCTION ACTIVITIES WILL REQUIRE COORDINATION WITH THE CITY OF ORLAND PUBLIC WORKS DEPARTMENT, GLENN COUNTY PUBLIC WORKS AGENCY, AND EMERGENCY SERVICES. A MINIMUM OF 72 HOURS NOTICE SHALL BE GIVEN TO THESE ENTITIES FOR SAID CLOSURES OR INTERRUPTIONS.
2. PARKING RESTRICTIONS MUST BE POSTED 24 HOURS BEFORE WORK STARTS AND WILL BE AT THE EXPENSE OF THE CONTRACTOR. CONTACT THE POLICE DEPARTMENT, CITY OF ORLAND PUBLIC WORKS DEPARTMENT, AND GLENN COUNTY PUBLIC WORKS AGENCY WHEN RESTRICTIONS ARE PLACED.
3. PROVIDE SAFE AND CONTINUOUS PASSAGE FOR LOCAL PEDESTRIAN AND VEHICULAR TRAFFIC AT ALL TIMES. PROVIDE TEMPORARY PAVING AS REQUIRED.
4. BEFORE WORK CAN BE STARTED, THE CONTRACTOR MUST PROVIDE TRAFFIC CONTROL AND SIGNAGE IN ACCORDANCE WITH PART 6 OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES & OBTAIN AN ENCROACHMENT PERMIT FOR THE WORK WITHIN THE CITY AND COUNTY RIGHT OF WAY. FULL ROAD CLOSURES ARE PROHIBITED UNLESS APPROVED BY GLENN COUNTY DIRECTOR OF PUBLIC WORKS.

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING, PAYING ALL FEES ASSOCIATED WITH, AND COMPLYING WITH A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND IMPLEMENTING ALL NECESSARY BEST MANAGEMENT PRACTICES (BMPs). CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER DISCHARGE PERMIT INCLUDING THE MONITORING PROGRAM. REFER TO CONTRACT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. ALL DISTURBED AREAS SHALL BE SODDED OR SEEDED IN ACCORDANCE WITH THE SWPPP.
3. CONTRACTOR SHALL INSPECT EROSION AND SEDIMENT CONTROL BMPs AT START AND END OF EACH SHIFT. INSPECTION SHALL BE COMPLETED UNDER SUPERVISION OF A QUALIFIED SWPPP PRACTITIONER (QSP) AND/OR QUALIFIED SWPPP DEVELOPER (QSD).
4. ALL MUD, DIRT, ROCKS, DEBRIS, ETC. SPILLED, TRACKED, OR OTHERWISE DEPOSITED ON EXISTING PAVED STREETS, DRIVES AND AREAS USED BY THE PUBLIC SHALL BE CLEANED UP IMMEDIATELY.

1. STREET RIGHTS-OF-WAY SHALL BE GRADED AT A SLOPE TO PROVIDE POSITIVE DRAINAGE TOWARD THE CURB OR DITCH UNLESS OTHERWISE INDICATED DUE TO SPECIAL CIRCUMSTANCES.
2. CONTRACTOR SHALL REPLACE AND REGRADE ANY DITCHES OR SWALES THAT HAVE BEEN TRENCHED THROUGH.

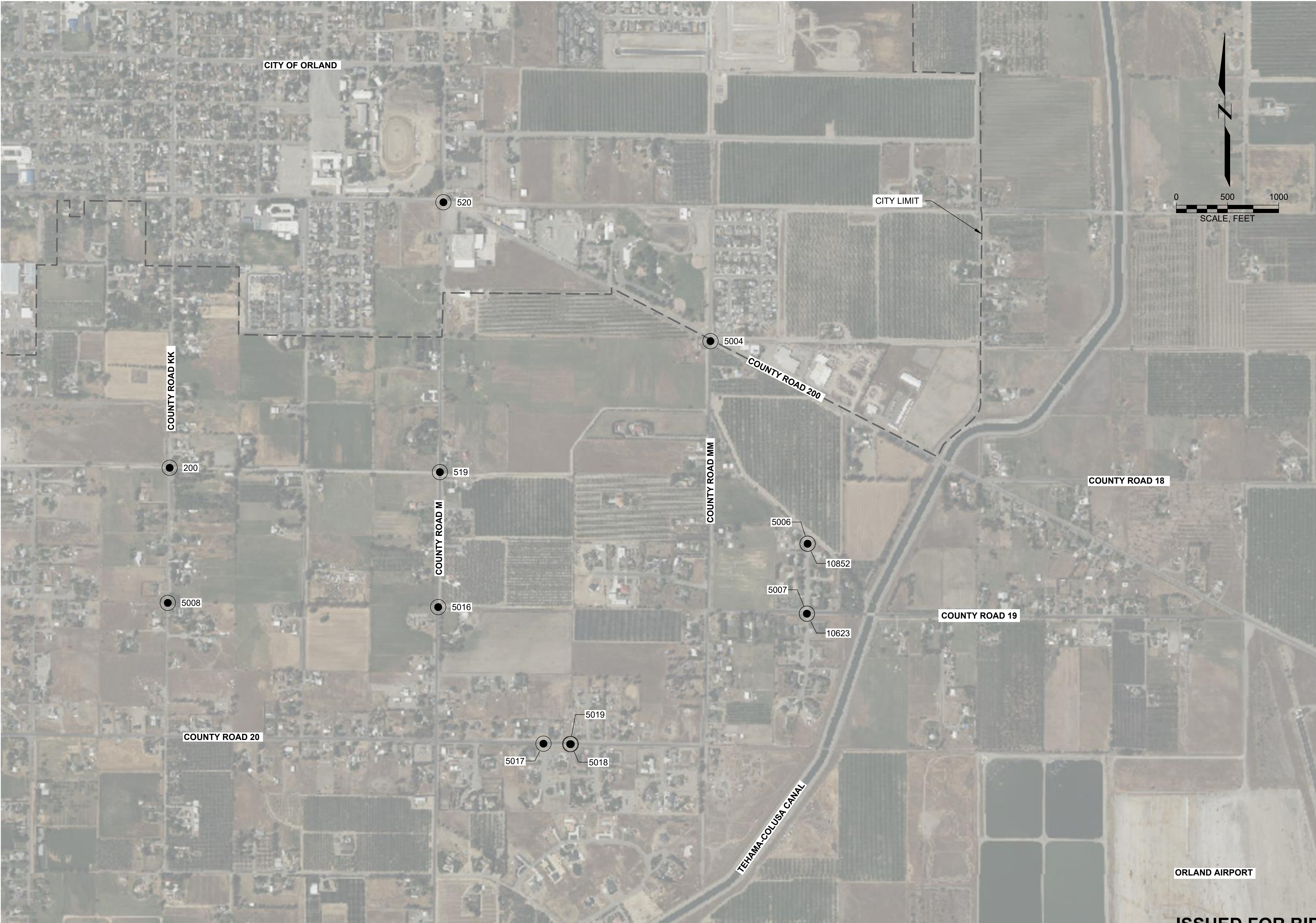
1. THE CONTRACTOR SHALL NOTIFY THE CITY OF ORLAND REPRESENTATIVE AND CITY OF ORLAND PUBLIC WORKS DEPARTMENT TO COORDINATE UTILITY MAIN, STRUCTURE, AND UTILITY TIE-INS AT LEAST 3 BUSINESS DAYS PRIOR FOR INSPECTION SERVICES.
2. THE CONTRACTOR MUST OBTAIN A WATER METER FROM THE CITY OF ORLAND PUBLIC WORKS DEPARTMENT FOR ALL PUBLIC WATER USED DURING CONSTRUCTION.
3. QUALITY AND PRESSURE TESTING SHALL BE CONDUCTED IN THE PRESENCE OF CITY OF ORLAND REPRESENTATIVE AND CITY OF ORLAND PUBLIC WORKS DEPARTMENT. THE CONTRACTOR SHALL COORDINATE TESTING WITH THE CITY OF ORLAND REPRESENTATIVE AND CITY OF ORLAND PUBLIC WORKS DEPARTMENT AND PROVIDE NO LESS THAN 2 BUSINESS DAYS NOTICE PRIOR TO PERFORMING DISINFECTION, QUALITY TESTING, OR PRESSURE TESTING.

AGENCY	CONTACT NAME	TELEPHONE NO.
CITY OF ORLAND REPRESENTATIVE	PAUL W. RABO	(530) 895-1422
CITY OF ORLAND PUBLIC WORKS DEPARTMENT	ED VONASEK	(530) 865-1600
ORLAND UNIFIED SCHOOL DISTRICT	OFFICE	(530) 865-1200
GLENN COUNTY REPRESENTATIVE	DONALD L. RUST	(530) 934-6530
GLENN COUNTY PUBLIC WORKS AGENCY	DONALD L. RUST	(530) 934-6530
GLENN COUNTY OFFICE OF EMERGENCY SERVICES	N/A	(530) 934-6431
CITY OF ORLAND - WASTE MANAGEMENT	N/A	(530) 865-4712
USA NORTH	N/A	811 OR (800) 642-2444
AT&T	N/A	(877) 563-3528
COMCAST	N/A	(888) 824-8219
ORLAND UNIT WATER USERS ASSOCIATION	RICK MASSA	(530) 865-4126
PG&E	TANNER PASCHKE	(530) 228-7222

SHEET NAME	DWG. NO.
GENERAL NOTES AND CONSTRUCTION NOTES	G-04
	SHEET NO.
	4 OF 56

POINT LOCATION DATA				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
200	2,392,983.4	6,508,922.0	244.57	MON-CL+
519	2,392,941.0	6,511,560.5	240.38	MON-CL+
520	2,395,575.7	6,511,594.4	240.90	MON-CL+
5004	2,394,219.9	6,514,202.0	235.62	MON-CL+
5006	2,392,242.3	6,515,150.3	229.43	MON-CL+
5007	2,391,559.2	6,515,143.4	229.16	MON-CL+
5008	2,391,664.9	6,508,903.8	241.38	MON-CL+
5016	2,391,623.7	6,511,543.6	236.11	MON-CL+
5017	2,390,290.3	6,512,571.5	231.53	MON-CL+
5018	2,390,286.1	6,512,838.8	230.54	MON-CL+
5019	2,390,286.3	6,512,831.6	230.53	MON-CL+
10623	2,391,559.4	6,515,143.4	229.69	MON-CL+
10852	2,392,242.3	6,515,150.3	230.09	MON-CL+

BASIS OF SURVEY:
HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83)
CALIFORNIA STATE PLANES, ZONE II US FOOT.
VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
CITY OF ORLAND REPRESENTATIVE IS RESPONSIBLE FOR SURVEYING AND STAKING NECESSARY FOR LAYOUT AND CONSTRUCTION OF THE PROJECT.



ISSUED FOR BID

Attention:

If this scale bar does not measure 1" then drawing is not original scale.

8/10/23

Designed: E. CERNA ALVAREZ

Drawn: I. CRUZ

Checked: M. MARTIN

Approved: S. GALA

P.E. No: C89239

GEI Project: 1408520

GEI Consultants
2868 PROSPECT PARK DRIVE
SUITE 400
RANCHO CORDOVA, CA 95670
(916)631-4500

CITY OF ORLAND
815 FOURTH ST.
ORLAND, CA 95963

**ORLAND EMERGENCY
GROUNDWATER
RESOURCE PROJECT
PHASE 2A**

815 FOURTH STREET
ORLAND, CA

0				
NO	DATE	ISSUE/REVISION	APP	

SHEET NAME

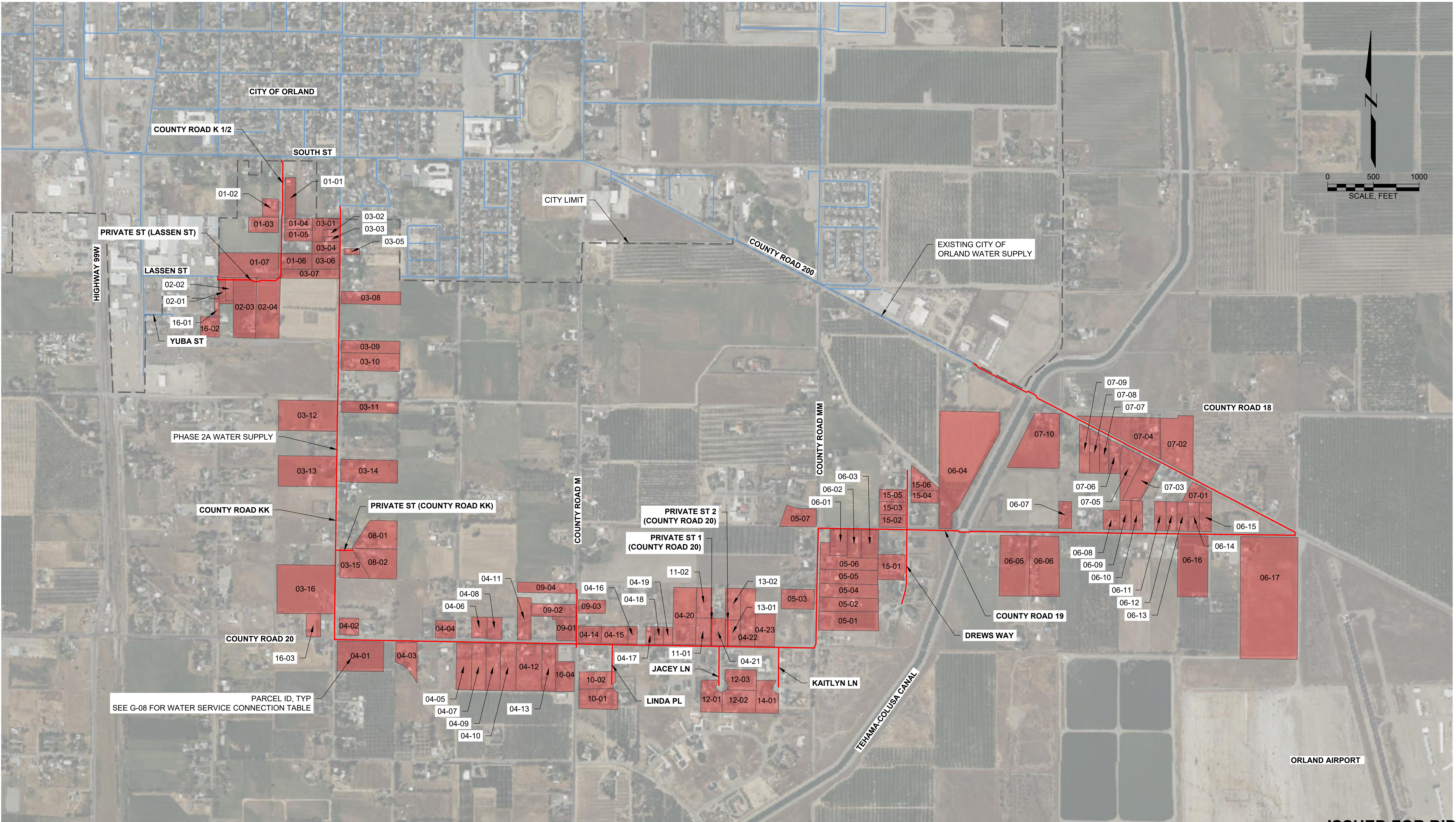
BASIS OF SURVEY

DWG. NO.

G-05

SHEET NO.

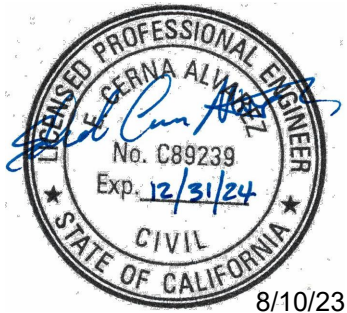
5 OF 56



ISSUED FOR BID



Attention:
0 1"
If this scale bar does not measure 1" then drawing is not original scale.



Designed: E. CERNA ALVAREZ
Drawn: I. CRUZ
Checked: M. MARTIN
Approved: S. GALA
P.E. No: C89239
GEI Project: 1408520



**ORLAND EMERGENCY
GROUNDWATER
RESOURCE PROJECT
PHASE 2A**
815 FOURTH STREET
ORLAND, CA

0			
NO	DATE	ISSUE/REVISION	APP

SHEET NAME
**PHASE 2A WATER
SERVICE CONNECTIONS
KEY MAP**

DWG. NO.
G-07
SHEET NO.
7 OF 56

CERNA ALVAREZ, EDUARDO C:\LOCAL - CAD\Client\6.0 CAD (LOCAL)\Design\Sheets\Phase 2A\G07-G08.dwg - 8/10/2023

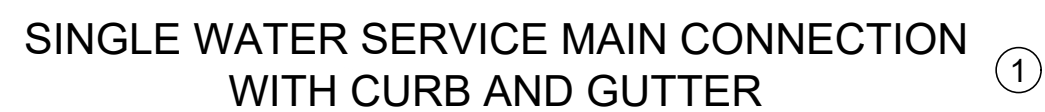
- NOTES:
- ①

SEE DETAIL 1, DWG. NO. CG-01 FOR SINGLE WATER SERVICE MAIN CONNECTION (WS) TYPE AND DETAIL 3, DWG. NO. CG-01 FOR DOUBLE WATER SERVICE MAIN CONNECTION (DWS) TYPE.
- ②

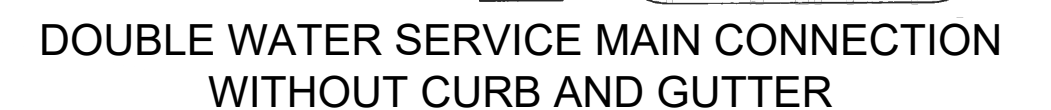
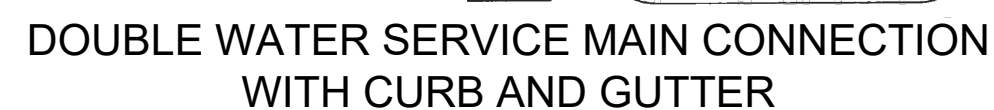
THE WATER SERVICE LOCATIONS ARE SHOWN IN PLANS AS A SCHEMATIC. FINAL WATER SERVICE LOCATIONS SHALL BE AS DIRECTED BY THE CITY OF ORLAND REPRESENTATIVE.

WATER SERVICE TABLE								
PARCEL ID	TYPE ①	APN	ADDRESS	WATER SERVICE PIPE SIZE	METER SIZE	NORTHING ②	EASTING ②	DWG. NO.
01-01	WS	040-340-009-000	4324 CR K 1/2	1"	1"	2,395,343	6,508,342	CA01-01
01-02	WS	040-340-022-000	4315 CR K 1/2	1"	1"	2,395,095	6,508,295	CA01-01
01-03	WS	040-380-001-000	4309 CR K 1/2	1"	1"	2,394,936	6,508,290	CA01-01
01-04	WS	040-380-012-000	4310 CR K 1/2	1"	1"	2,394,882	6,508,336	CA01-01
01-05	WS	040-380-013-000	4306 CR K 1/2	1"	1"	2,394,790	6,508,332	CA01-01
01-06	DWS	040-380-009-000	4298 CR K 1/2	2"	1"	2,394,480	6,508,312	CA01-02
			4295 CR K1/2	1"	1"			
01-07	DWS	040-380-003-000	4297 CR K 1/2	2"	1"	2,394,370	6,508,281	CA01-02
			303 LASSEN ST	1"	1"			
02-01	WS	046-260-018-000	303 LASSEN ST	1"	1"	2,394,268	6,507,642	CA02-01
02-02	WS	046-260-019-000	301 LASSEN ST	1"	1"	2,394,268	6,507,716	CA02-01
02-03	WS	046-260-043-000	225 LASSEN ST	1"	1"	2,394,236	6,508,008	CA02-01
02-04	WS	046-260-044-000	4289 RD K 1/2	1"	1"	2,394,235	6,508,040	CA02-01
03-01	WS	040-380-015-000	4309 CR KK	1"	1"	2,394,893	6,508,931	CA03-01
03-02	WS	040-380-006-000	4305 CR KK	1"	1"	2,394,781	6,508,931	CA03-01
03-03	WS	040-380-007-000	4303 CR KK	1"	1"	2,394,725	6,508,930	CA03-01
03-04	WS	040-380-008-000	4301 CR KK	1"	1"	2,394,624	6,508,934	CA03-01
03-05	WS	041-270-001-000	4300 CR KK	1"	1"	2,394,589	6,508,963	CA03-01
03-06	WS	040-380-010-000	4297 CR KK	1"	1"	2,394,500	6,508,932	CA03-01
03-07	WS	040-380-011-000	4293 CR KK	1"	1"	2,394,329	6,508,926	CA03-01
03-08	WS	046-270-002-000	4286 CR KK	1"	1"	2,394,110	6,508,951	CA03-01
03-09	WS	046-270-005-000	4268 CR KK	1"	1"	2,393,574	6,508,945	CA03-02
03-10	WS	046-270-006-000	4262 CR KK	1"	1"	2,393,372	6,508,945	CA03-02
03-11	WS	047-020-023-000	4248 CR KK	1"	1"	2,392,890	6,508,953	CA03-03
03-12	WS	047-010-033-000	4239 CR KK	1"	1"	2,392,662	6,508,905	CA03-03
03-13	WS	047-010-035-000	4227 CR KK	1"	1"	2,392,167	6,508,876	CA03-03
03-14	DWS	047-020-005-000	4222 CR KK	2"	1"	2,392,160	6,508,946	CA03-03
			4226 RD KK	1"	1"			
03-15	WS	047-060-032-000	4190 CR KK	1"	1"	2,391,076	6,508,915	CA03-05
03-16	WS	047-050-020-000	4179 CR KK	1"	1"	2,390,744	6,508,873	CA03-05
04-01	WS	047-160-044-000	4160 CR KK	1"	1"	2,390,328	6,508,996	CA04-01
04-02	WS	047-060-025-000	6588 CR 20	1"	1"	2,390,368	6,509,078	CA04-01
04-03	WS	047-160-050-000	6607 CR 20	1"	1"	2,390,316	6,509,640	CA04-01
04-04	WS	047-060-018-000	6622 CR 20	1"	1"	2,390,352	6,510,088	CA04-02
04-05	WS	047-160-023-000	6629 CR 20	1"	1"	2,390,304	6,510,253	CA04-02
04-06	WS	047-060-010-000	6634 CR 20	1"	1"	2,390,340	6,510,480	CA04-02
04-07	WS	047-160-024-000	6633 CR 20	1"	1"	2,390,304	6,510,485	CA04-02
04-08	WS	047-060-011-000	6638 CR 20	1"	1"	2,390,345	6,510,603	CA04-02
04-09	WS	047-160-025-000	6639 CR 19	1"	1"	2,390,302	6,510,631	CA04-02
04-10	WS	047-160-026-000	6643 CR 20	1"	1"	2,390,298	6,510,729	CA04-02
04-11	WS	047-060-013-000	6648 CR 20	1"	1"	2,390,335	6,510,945	CA04-03
04-12	WS	047-160-027-000	6651 CR 20	1"	1"	2,390,298	6,510,957	CA04-03
04-13	WS	047-160-028-000	6657 CR 20	1"	1"	2,390,293	6,511,212	CA04-03
04-14	WS	047-070-026-000	4170 CR M	1"	1"	2,390,320	6,511,673	CA04-03
04-15	WS	047-070-027-000	6680 CR 20	1"	1"	2,390,324	6,511,934	CA04-04
04-16	WS	047-070-008-000	6688 CR 20	1"	1"	2,390,321	6,512,132	CA04-04
04-17	WS	047-070-010-000	6692 CR 20	1"	1"	2,390,316	6,512,327	CA04-04
04-18	WS	047-070-011-000	6696 CR 20	1"	1"	2,390,314	6,512,436	CA04-04
04-19	WS	047-070-012-000	6698 CR 20	1"	1"	2,390,313	6,512,501	CA04-04
04-20	WS	047-070-030-000	6704 CR 20	1"	1"	2,390,310	6,512,714	CA04-04
04-21	WS	047-070-016-000	6718 CR 20	1"	1"	2,390,303	6,513,111	CA04-05
04-22	WS	047-070-018-000	6727 CR 20	1"	1"	2,390,297	6,513,367	CA04-05
04-23	WS	047-070-035-000	6734 CR 20	1"	1"	2,390,292	6,513,549	CA04-05
05-01	WS	047-080-008-000	4176 CR MM	1"	1"	2,390,529	6,514,174	CA05-01
05-02	WS	047-080-017-000	4182 CR MM	1"	1"	2,390,730	6,514,173	CA05-01
05-03	WS	047-070-038-000	4185 CR MM	1"	1"	2,390,869	6,514,131	CA05-01
05-04	WS	047-080-016-000	4188 CR MM	1"	1"	2,390,875	6,514,171	CA05-01

WATER SERVICE TABLE								
PARCEL ID	TYPE ①	APN	ADDRESS	WATER SERVICE PIPE SIZE	METER SIZE	NORTHING ②	EASTING ②	DWG. NO.
05-05	WS	047-080-015-000	4192 CR MM	1"	1"	2,391,067	6,514,175	CA05-01
05-06	WS	047-080-014-000	4196 CR MM	1"	1"	2,391,193	6,514,180	CA05-01
05-07	WS	047-030-021-000	6743 CR 19	1"	1"	2,391,602	6,514,141	CA05-02
06-01	WS	047-080-002-000	6757 CR 19	1"	1"	2,391,544	6,514,422	CA06-01
06-02	WS	047-080-003-000	6763 CR 19	1"	1"	2,391,547	6,514,599	CA06-01
06-03	WS	047-080-004-000	6767 CR 19	1"	1"	2,391,542	6,514,706	CA06-01
06-04	WS	047-040-004-000	6800 CR 19	1"	1"	2,391,563	6,515,598	CA06-02
06-05	WS	047-080-018-000	6819 CR 19	1"	1"	2,391,504	6,516,441	CA06-03
06-06	DWS	047-080-019-000	6833 CR 19	2"	1"	2,391,504	6,516,497	CA06-03
			6833 CR 19 SPC B	1"	1"			
06-07	WS	047-090-045-000	6834 CR 19	1"	1"	2,391,549	6,516,836	CA06-03
06-08	WS	047-090-023-000	6850 CR 19	1"	1"	2,391,543	6,517,326	CA06-04
06-09	WS	047-090-033-000	6856 CR 19	1"	1"	2,391,538	6,517,510	CA06-04
06-10	WS	047-090-034-000	6860 CR 19	1"	1"	2,391,540	6,517,653	CA06-04
06-11	WS	047-090-036-000	6868 CR 19	1"	1"	2,391,543	6,517,879	CA06-04
06-12	WS	047-090-037-000	6870 CR 19	1"	1"	2,391,538	6,518,059	CA06-04
06-13	WS	047-090-038-000	6874 CR 19	1"	1"	2,391,534	6,518,133	CA06-04
06-14	WS	047-090-039-000	6880 CR 19	1"	1"	2,391,532	6,518,255	CA06-05
06-15	WS	047-090-040-000	6882 CR 19	1"	1"	2,391,531	6,518,363	CA06-05
06-16	WS	047-090-049-000	6881 CR 19	1"	1"	2,391,482	6,518,424	CA06-05
06-17	WS	047-090-014-000	6901 CR 19	1"	1"	2,391,478	6,518,800	CA06-05
07-01	WS	047-090-044-000	6881 CR 200	1"	1"	2,392,032	6,518,345	CA07-02
07-02	WS	047-090-054-000	6870 CR 200	1"	1"	2,392,286	6,517,958	CA07-02
07-03	WS	047-090-032-000	6863 CR 200	1"	1"	2,392,319	6,517,795	CA07-02
07-04	WS	047-090-053-000	6850 CR 200	1"	1"	2,392,376	6,517,797	CA07-02
07-05	WS	047-090-031-000	6859 CR 200	1"	1"	2,392,372	6,517,697	CA07-02
07-06	WS	047-090-020-000	6851 CR 200	1"	1"	2,392,507	6,517,430	CA07-03
07-07	WS	047-090-026-000	6849 CR 200	1"	1"	2,392,562	6,517,325	CA07-03
07-08	WS	047-090-025-000	6845 CR 200	1"	1"	2,392,627	6,517,201	CA07-03
07-09	WS	047-090-024-000	6841 CR 200	1"	1"	2,392,668	6,517,124	CA07-03
07-10	WS	047-040-007-000	6833 CR 200	1"	1"	2,392,867	6,516,739	CA07-03
08-01	WS	047-060-031-000	4198 CR KK	1"	1"	2,391,361	6,509,099	CA08-01
08-02	WS	047-060-033-000	4194 CR KK	1"	1"	2,391,310	6,509,105	CA08-01
09-01	WS	047-060-036-000	4173 CR M	1"	1"	2,390,510	6,511,512	CA09-01
09-02	WS	047-060-021-000	4179 CR M	1"	1"	2,390,690	6,511,515	CA09-01
09-03	WS	047-070-004-000	4182 CR M	1"	1"	2,390,702	6,511,555	CA09-01
09-04	WS	047-060-014-000	4187 CR M	1"	1"	2,390,896	6,511,519	CA09-01
10-01	WS	047-171-008-000	4141 LINDA PL	1"	1"	2,389,849	6,511,872	CA10-01
10-02	WS	047-171-007-000	4151 LINDA PL	1"	1"	2,389,907	6,511,881	CA10-01
11-01	WS	047-070-015-000	6712 CR 20	1"	1"	2,390,363	6,512,977	CA11-01
11-02	WS	047-070-013-000	6714 CR 20	1"	1"	2,390,642	6,512,981	CA11-01
12-01	WS	047-171-023-000	6721 CR 20	1"	1"	2,389,821	6,513,057	CA12-01
12-02	WS	047-171-026-000	6735 CR 20	1"	1"	2,389,827	6,513,125	CA12-01
12-03	WS	047-171-025-000	6731 CR 20	1"	1"	2,389,859	6,513,138	CA12-01
13-01	WS	047-070-024-000	6722 CR 20	1"	1"	2,390,431	6,513,192	CA13-01
13-02	WS	047-070-025-000	6720 CR 20	1"	1"	2,390,583	6,513,204	CA13-01
14-01	WS	047-171-028-000	6741 CR 20	1"	1"	2,389,826	6,513,697	CA14-01
15-01	WS	047-080-024-000	6779 CR 19	1"	1"	2,391,166	6,515,114	CA15-01
15-02	WS	047-040-010-000	4211 DREWS WY	1"	1"	2,391,695	6,515,117	CA15-01
15-03	WS	047-040-011-000	4215 DREWS WY	1"	1"	2,391,765	6,515,119	CA15-02
15-04	WS	047-040-018-000	4220 DREWS WY	1"	1"	2,391,912	6,515,181	CA15-02
15-05	WS	047-040-012-000	4219 DREWS WY	1"	1"	2,391,968	6,515,121	CA15-02
15-06	WS	047-040-019-000	4226 DREWS WY	1"	1"	2,392,151	6,515,174	CA15-02
16-01	WS	046-260-029-000	304 YUBA ST	2"	2"	2,393,907	6,507,582	CA16-01
16-02	WS	046-260-041-000	307 YUBA ST	2"	2"	2,393,874	6,507,584	CA1



- | SERVICE SIZE | CHRISTY BOX NO. | CHRISTY LID NO. |
|--------------|-----------------|--|
| 1" | B1324 | B1324 STEEL CHECKER PLATE WITH READER DOOR AND BOLT DOWN LOCKING |
| 2" | B1730 | B1730 STEEL CHECKER PLATE WITH READER DOOR AND BOLT DOWN LOCKING |



- | | |
|---|--------------------------------------|
| 3 | DETAIL |
| - | DOUBLE WATER SERVICE MAIN CONNECTION |

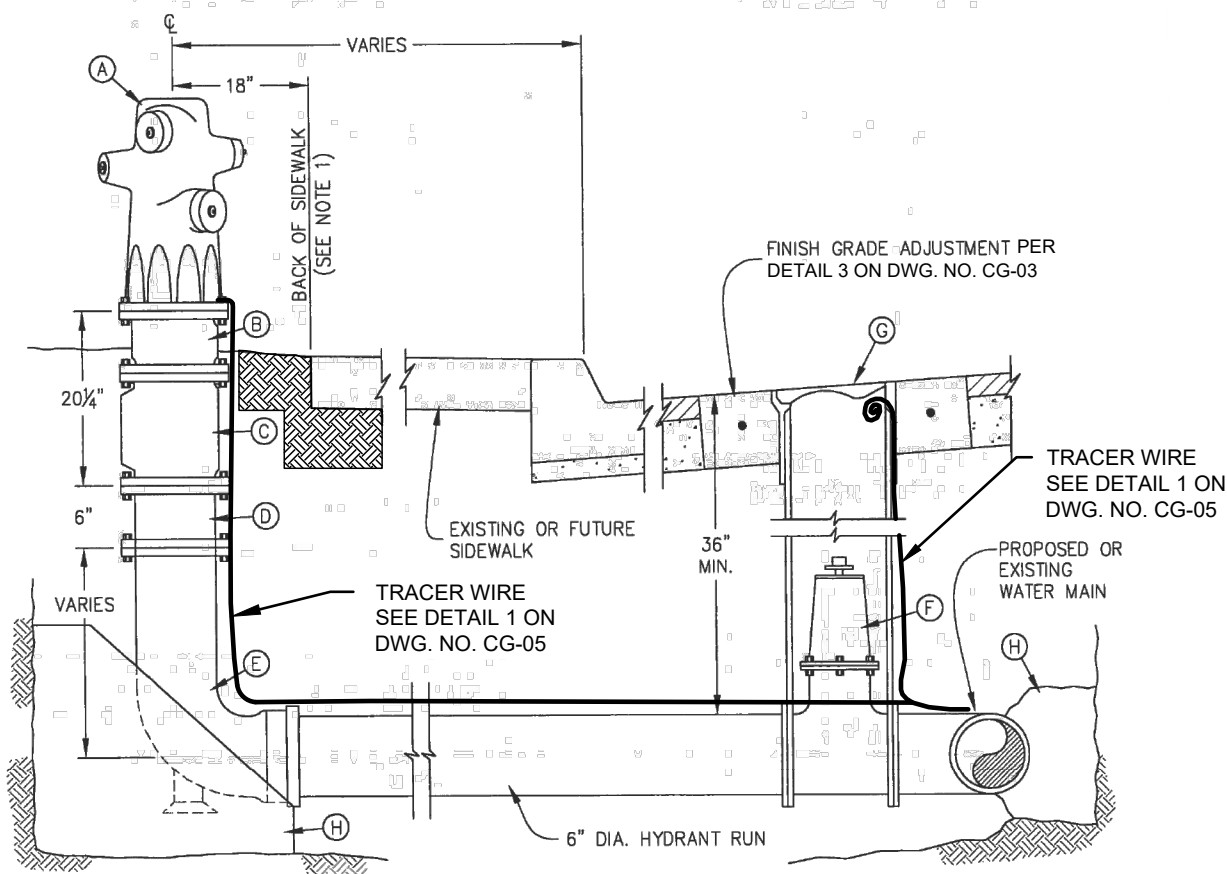
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NOTES:

- IF SIDEWALK IS SEPARATED FROM CURB THEN THE FIRE HYDRANT SHALL BE PLACED 30" FROM FACE OF CURB.
- THE LOCATIONS OF FIRE HYDRANT ASSEMBLY ARE SHOWN AS A SCHEMATIC. FINAL LOCATION SHALL BE AS DIRECTED BY COUNTY FIRE DEPARTMENT IN COORDINATION WITH CITY OF ORLAND'S CONSTRUCTION MANAGER REPRESENTATIVE IN THE FIELD.
- INSTALL BLUE REFLECTIVE PAVEMENT MARKERS AT EACH FIRE HYDRANT LOCATION PER DETAIL 2 OF THIS DRAWING.
- INSTALL BOLLARDS AT EACH FIRE HYDRANT LOCATION PER DETAIL 3 OF THIS DRAWING.

CONSTRUCTION MATERIALS AND NOTES

- WET BARREL FIRE HYDRANT (CLOW VALVE COMPANY MODEL 960 OR APPROVED EQUAL) WITH (1) 4½" AND (2) 2½" OUTLETS. FIRE HYDRANTS SHALL HAVE ONE COAT OF RED PRIMER OVER SOUND METAL AND ONE COAT OF RED PAINT. ALL FIRE HYDRANT LOCATIONS SHALL BE APPROVED BY THE ORLAND FIRE DEPARTMENT.
- 6" DIA. BREAK OFF RISER
- 6" DIA. BREAK OFF CHECK VALVE (CLOW VALVE COMPANY MODEL LBI 400A OR APPROVED EQUAL)
- 6" DIA. SPOOL (REQUIRED)
- 6" DIA. FIRE HYDRANT BURY (HEIGHT VARIES)
- 6" DIA. GATE VALVE (MUELLER A-2360 OR APPROVED EQUAL)
- TRAFFIC VALVE BOX (BROOKS PRODUCTS NO. 3-RT SERIES)
- THRUST BLOCKS SHALL CONFORM TO DETAIL 1 ON DWG. NO. CG-03.



FIRE HYDRANT INSTALLATION WITH CURB AND GUTTER

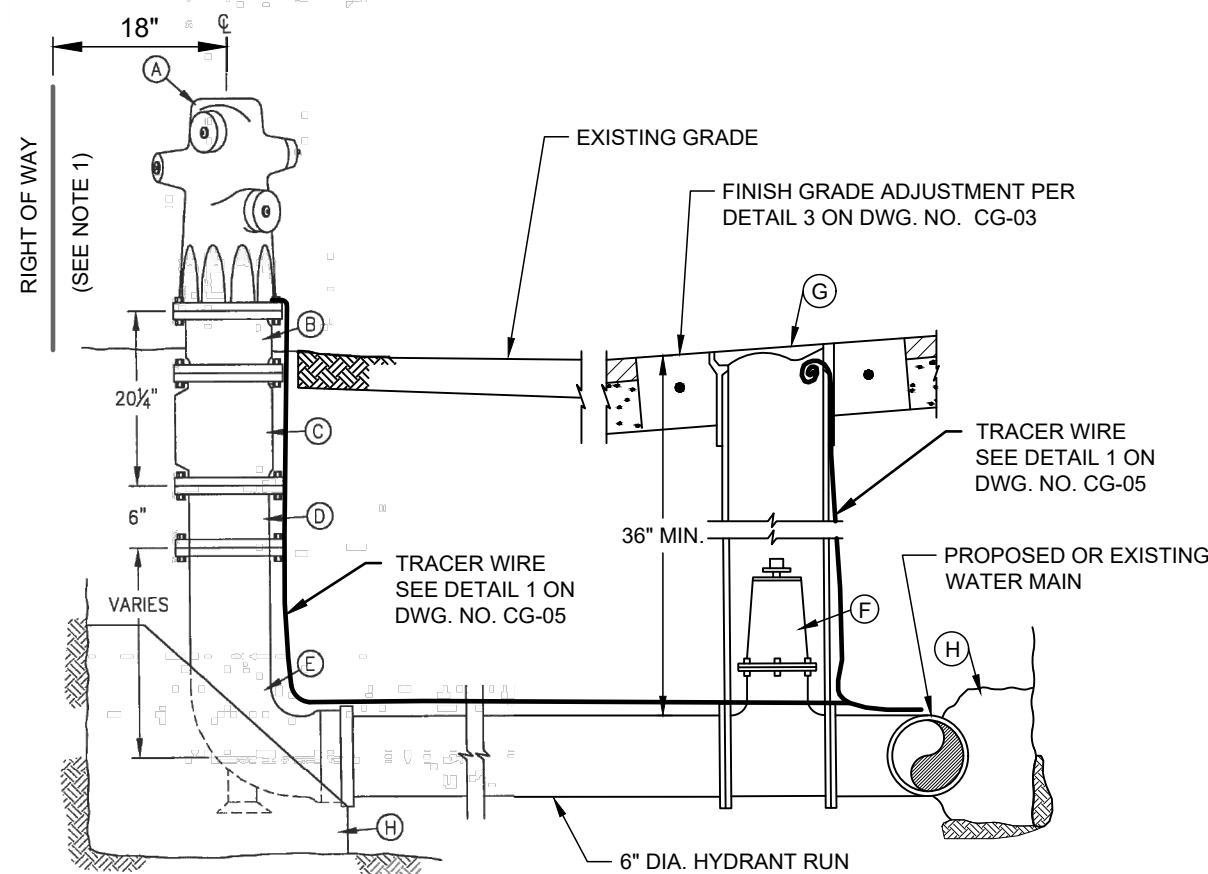
1
-
DETAIL
FIRE HYDRANT INSTALLATION

NOTES:

- IF CURB AND GUTTER ARE NOT AVAILABLE, THE FIRE HYDRANT SHALL BE PLACED 18" FROM RIGHT OF WAY UNLESS OTHERWISE DIRECTED BY CITY OF ORLAND'S CONSTRUCTION MANAGER REPRESENTATIVE IN THE FIELD.
- THE LOCATIONS OF FIRE HYDRANT ASSEMBLY ARE SHOWN AS A SCHEMATIC. FINAL LOCATION SHALL BE AS DIRECTED BY COUNTY FIRE DEPARTMENT IN COORDINATION WITH CITY OF ORLAND'S CONSTRUCTION MANAGER REPRESENTATIVE IN THE FIELD.
- INSTALL BLUE REFLECTIVE PAVEMENT MARKERS AT EACH FIRE HYDRANT LOCATION PER DETAIL 2 OF THIS DRAWING.
- INSTALL BOLLARDS AT EACH FIRE HYDRANT LOCATION PER DETAIL 3 OF THIS DRAWING.

CONSTRUCTION MATERIALS AND NOTES

- WET BARREL FIRE HYDRANT (CLOW VALVE COMPANY MODEL 960 OR APPROVED EQUAL) WITH (1) 4½" AND (2) 2½" OUTLETS. FIRE HYDRANTS SHALL HAVE ONE COAT OF RED PRIMER OVER SOUND METAL AND ONE COAT OF RED PAINT. ALL FIRE HYDRANT LOCATIONS SHALL BE APPROVED BY THE ORLAND FIRE DEPARTMENT.
- 6" DIA. BREAK OFF RISER
- 6" DIA. BREAK OFF CHECK VALVE (CLOW VALVE COMPANY MODEL LBI 400A OR APPROVED EQUAL)
- 6" DIA. SPOOL (REQUIRED)
- 6" DIA. FIRE HYDRANT BURY (HEIGHT VARIES)
- 6" DIA. GATE VALVE (MUELLER A-2360 OR APPROVED EQUAL)
- TRAFFIC VALVE BOX (BROOKS PRODUCTS NO. 3-RT SERIES)
- THRUST BLOCKS SHALL CONFORM TO DETAIL 1 ON DWG. NO. CG-03.



FIRE HYDRANT INSTALLATION WITHOUT CURB AND GUTTER

FH
NTS

TWO LANE STREET

MULTI-LANE STREET

AN INTERSECTION

FOUR LANE STREET WITH TURN LANE AT INTERSECTION

MULTI-LANE STREET WITH TURN LANE

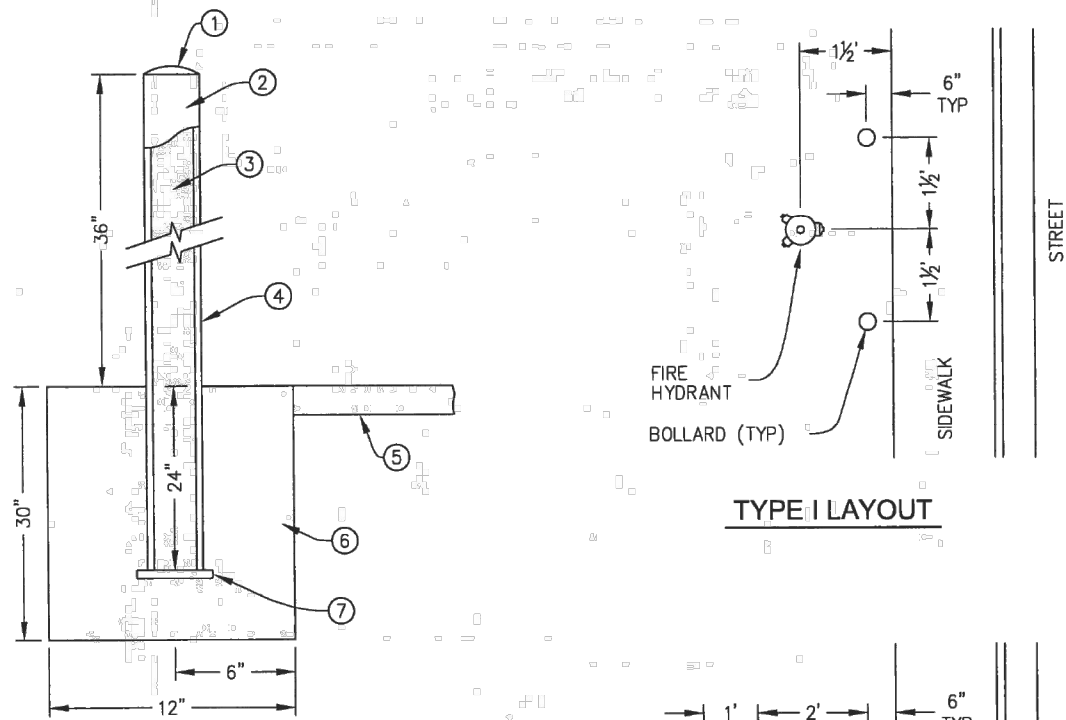
- FIRE HYDRANT
- BLUE PAVEMENT MARKER

NOTES

- INSTALL TWO-WAY BLUE REFLECTIVE MARKERS. MARKERS SHALL BE AS SPECIFIED IN CALTRANS STANDARD SPECIFICATIONS AND APPROVED BY FIRE CHIEF.
- INSTALL MARKERS WITH EPOXY APPROVED BY THE CITY ENGINEER.
- INSTALL BLUE REFLECTIVE PAVEMENT MARKERS AT EACH FIRE HYDRANT LOCATION.

2
-
DETAIL
BLUE REFLECTIVE PAVEMENT MARKERS

NTS



CONSTRUCTION MATERIALS AND NOTES

- CONCRETE DOME FINISH
- USE SAME PAINTING METHODS AND COLOR AS FIRE HYDRANT
- FILL PIPE WITH CONCRETE
- 4" x 60" LONG SCHEDULE 40 GALVANIZED PIPE, 2 FEET EMBEDDED IN CONCRETE
- ADJACENT CONCRETE SIDEWALK
- 12" x 30" DEEP CLASS A CONCRETE FOUNDATION CENTERED ON BOLLARD
- ¾" WELDED CIRCULAR STEEL PLATE WITH ¼" LIP
- ADDITIONAL BOLLARDS AS REQUIRED

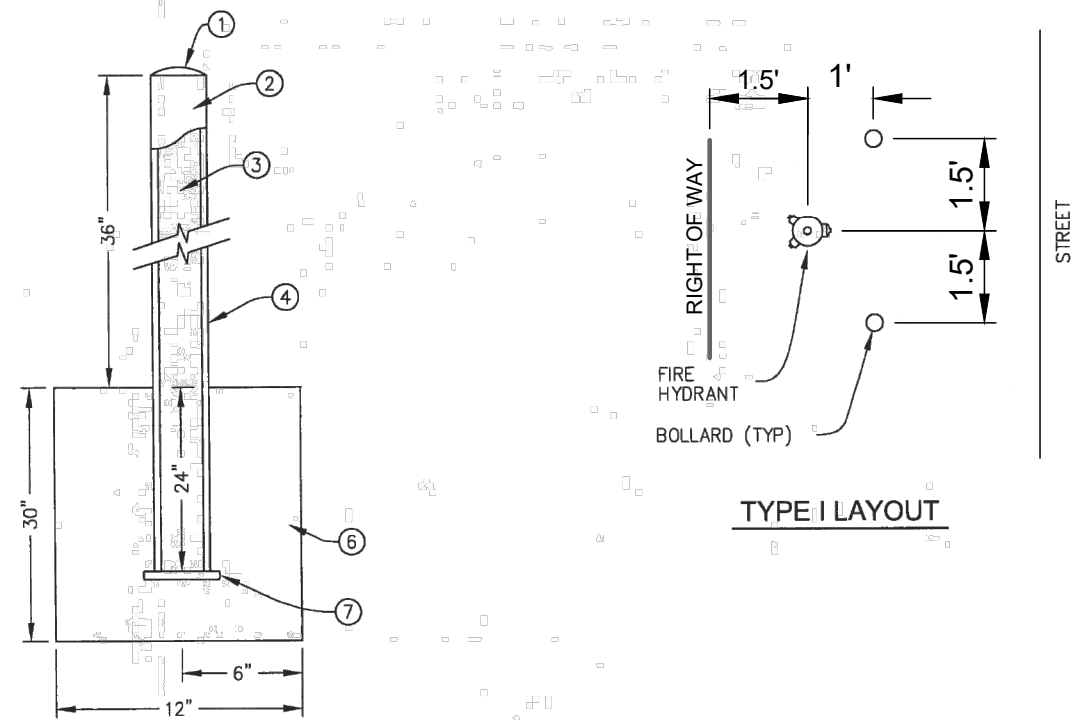
NOTES

- INSTALL BOLLARDS AT EACH FIRE HYDRANT LOCATION.
- IN NO WAY SHALL ANY BOLLARD BE INSTALLED IN DIRECT LINE WITH ANY HYDRANT OUTLET.
- FOR INSTALLATION OF TWO BOLLARDS, USE TYPE I LAYOUT. FOR INSTALLATION OF MORE THAN TWO BOLLARDS, USE TYPE II LAYOUT.

FIRE HYDRANT BOLLARD INSTALLATION WITH CURB AND GUTTER

3
-
DETAIL
FIRE HYDRANT BOLLARD INSTALLATION

NTS



CONSTRUCTION MATERIALS AND NOTES

- CONCRETE DOME FINISH
- USE SAME PAINTING METHODS AND COLOR AS FIRE HYDRANT
- FILL PIPE WITH CONCRETE
- 4" x 60" LONG SCHEDULE 40 GALVANIZED PIPE, 2 FEET EMBEDDED IN CONCRETE
- NOT USED
- 12" x 30" DEEP CLASS A CONCRETE FOUNDATION CENTERED ON BOLLARD
- ¾" WELDED CIRCULAR STEEL PLATE WITH ¼" LIP
- ADDITIONAL BOLLARDS AS REQUIRED

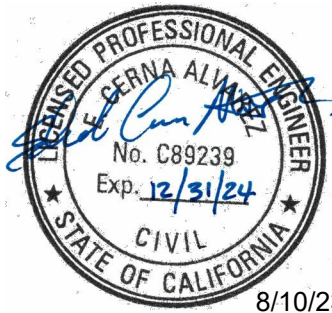
NOTES

- INSTALL BOLLARDS AT EACH FIRE HYDRANT LOCATION.
- IN NO WAY SHALL ANY BOLLARD BE INSTALLED IN DIRECT LINE WITH ANY HYDRANT OUTLET.

FIRE HYDRANT BOLLARD INSTALLATION WITHOUT CURB AND GUTTER



Attention:
0 1"
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Drawn: I. CRUZ
Checked: M. MARTIN
Approved: S. GALA
P.E. No: C89239
GEI Project: 1408520



ORLAND EMERGENCY
GROUNDWATER
RESOURCE PROJECT
PHASE 2A
815 FOURTH STREET
ORLAND, CA

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SHEET NAME
TYPICAL DETAILS 2

DWG. NO.

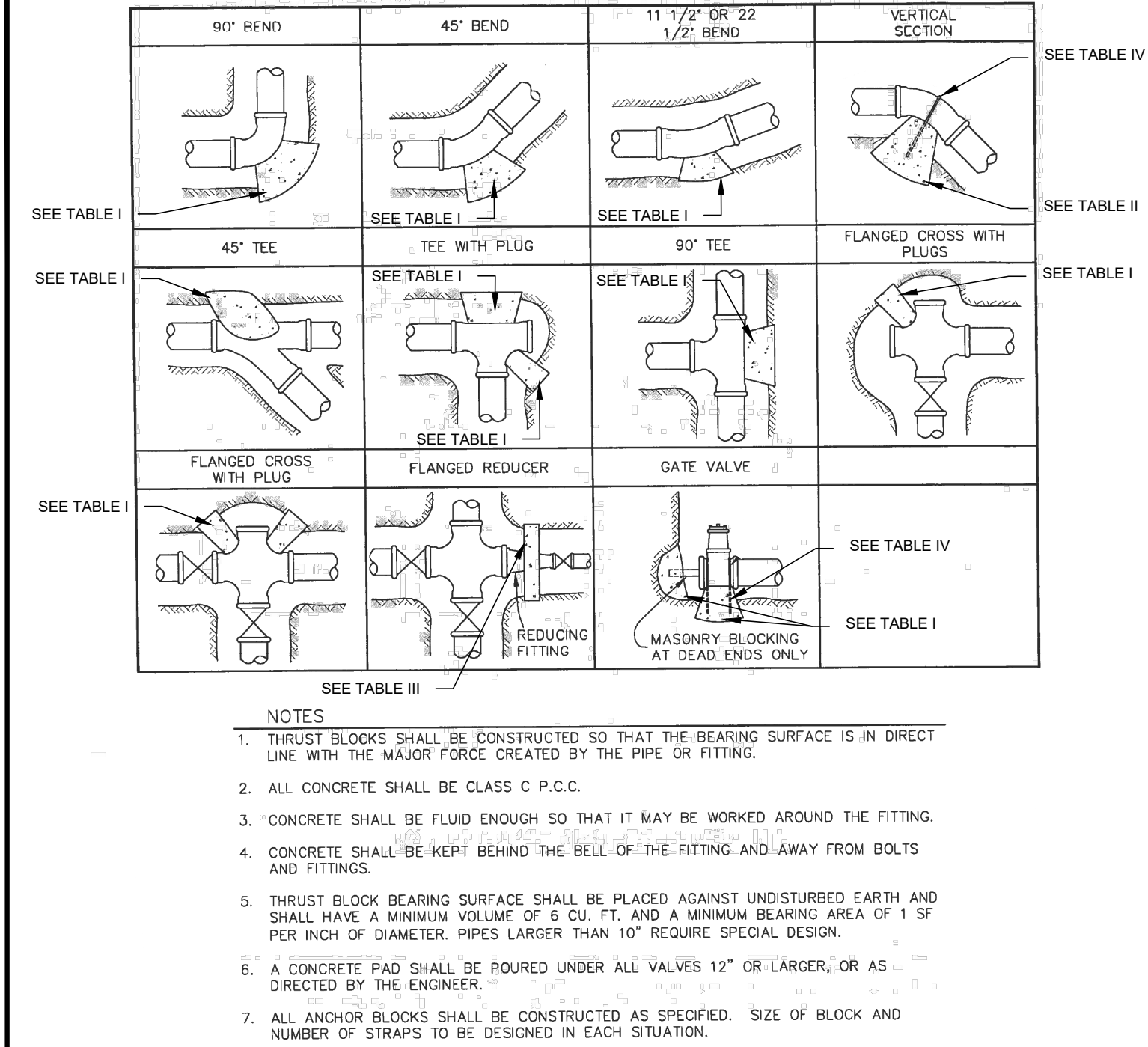
CG-02

SHEET NO.

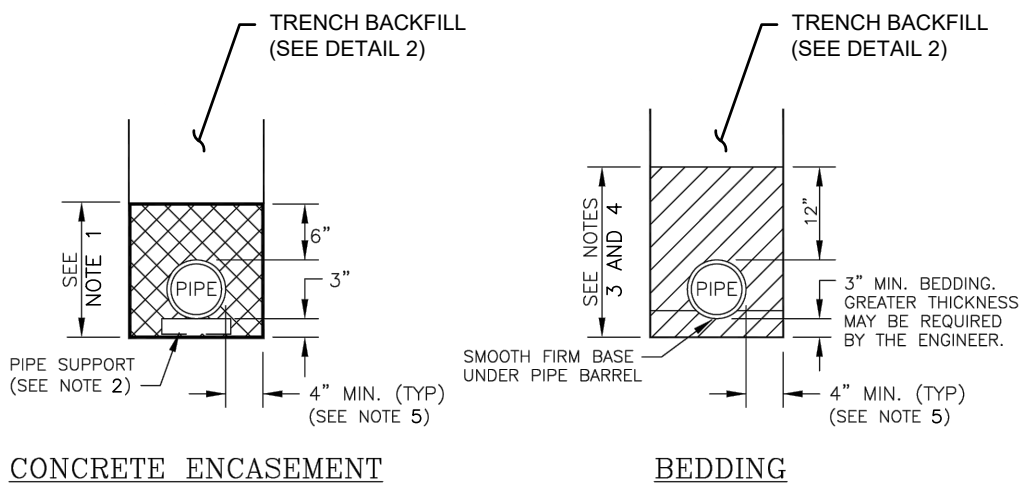
10 OF 56

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CERNA ALVAREZ, EDUARDO C:\LOCAL - CAD\Orland\9.0 CAD [LOCAL]\Design\Sheets\Phase 2\ACG3XX Series.dwg - 8/10/2023

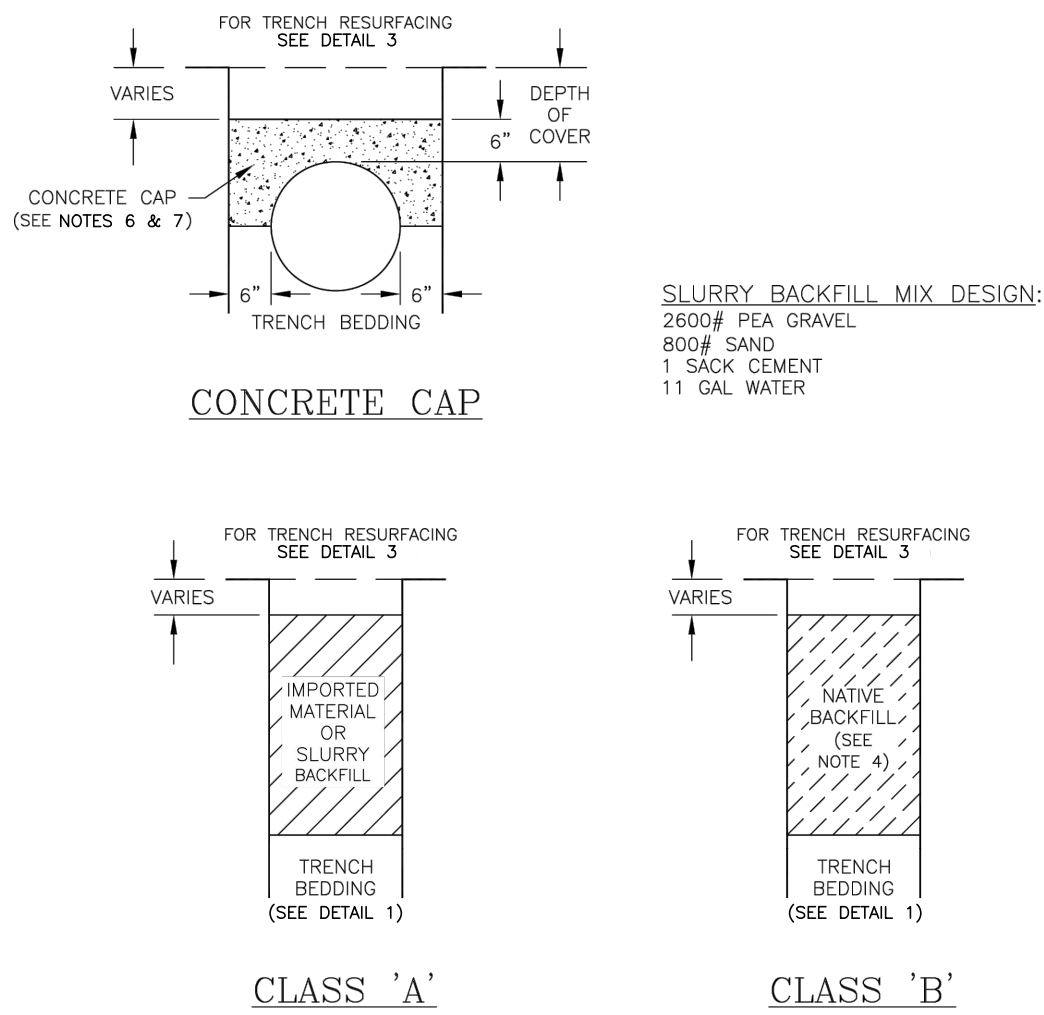


CERNA ALVAREZ, EDUARDO - C:\LOCAL - CAD\Orland\0.0 CAD (LOCAL)\Design\Sheets\Phase 2\ACCSX Series.dwg - 8/10/2023



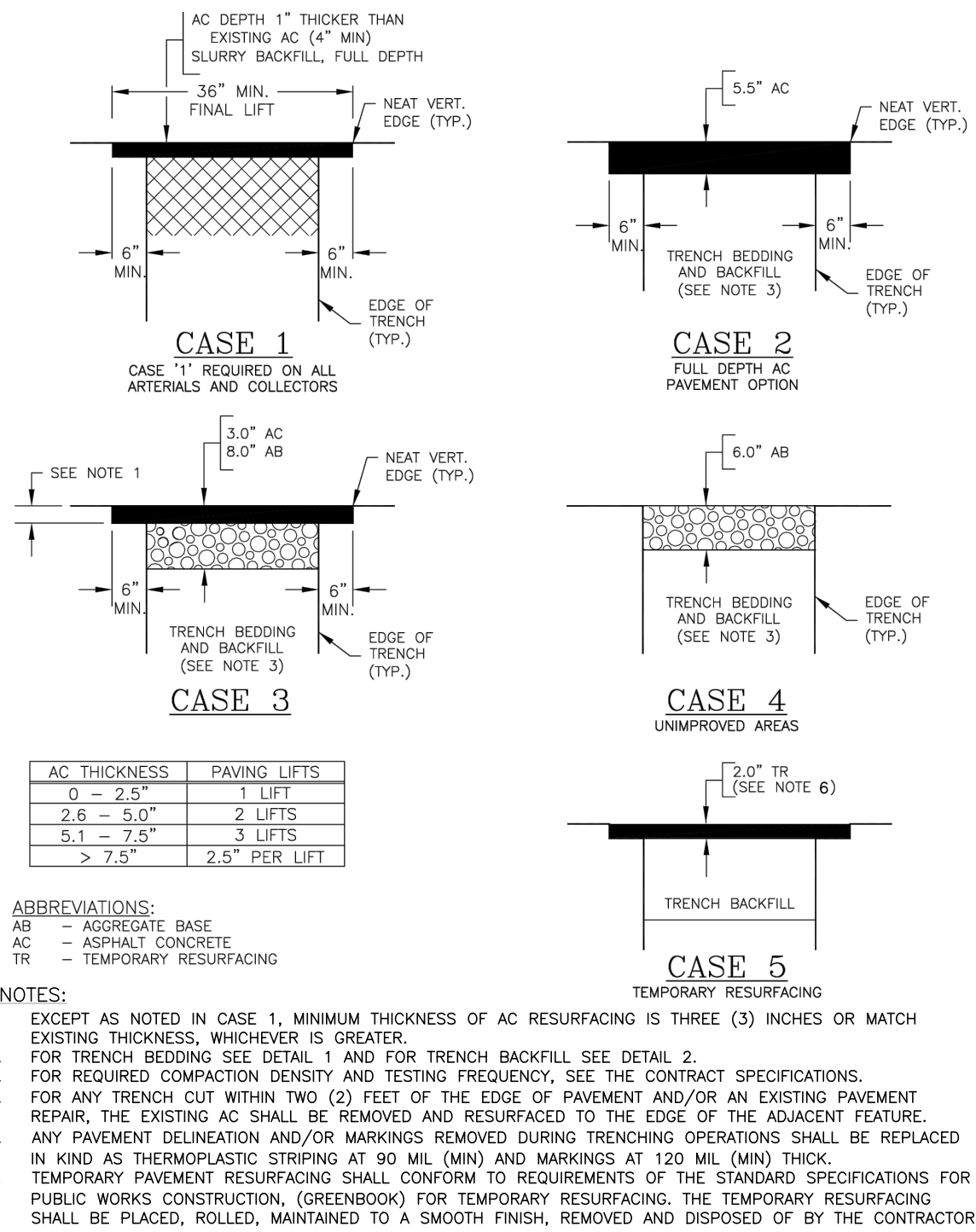
- NOTES:
- CONCRETE FOR ENCASING PIPE SHALL BE CLASS 450-C-2000 PER THE SPECIFICATIONS.
 - ON ALL CONCRETE ENCASED PIPES, PIPE SHALL BE SUPPORTED ON CONCRETE BLOCKS, GROUT PADS, OR BY OTHER APPROVED METHOD. TWO SUPPORTS SHALL BE REQUIRED PER JOINT OF PIPE. CARE SHALL BE TAKEN NOT TO FLOAT PIPE WHILE PLACING CONCRETE.
 - BACKFILL BY HAND, COMPACT OR CONSOLIDATE TO PROVIDE SOLID BEDDING UNDER AND AROUND PIPE.
 - BEDDING MATERIAL
 - WATER MAINS SHALL BE PER THE SPECIFICATIONS.
 - TRENCH WIDTH ON EACH SIDE OF THE PIPE SHALL BE A MINIMUM OF EITHER FOUR (4) INCHES OR THE PIPE MANUFACTURER'S RECOMMENDED MINIMUM, WHICHEVER IS GREATER.

1 DETAIL
- TRENCH BEDDING NTS



- NOTES:
- IMPORT BACKFILL MATERIAL PER THE SPECIFICATIONS.
 - SLURRY BACKFILL SHALL BE PER MIX DESIGN ABOVE, AND SHALL BE PLACED AND COMPACTED IN LIFTS NOT EXCEEDING THREE (3) FEET.
 - NATIVE BACKFILL MAY BE USED IN-LIEU OF IMPORT BACKFILL ONLY IF AN INDEPENDENT GEOTECHNICAL ENGINEERING COMPANY MONITORS AND TESTS THE BACKFILL DURING THE ENTIRE BACKFILLING OPERATION.
 - FOR REQUIRED COMPACTION DENSITY AND TESTING FREQUENCY, SEE CONTRACT SPECIFICATIONS.
 - COMPACTION BY JETTING IS NOT PERMITTED.
 - CONCRETE CAP SHALL BE PLACED OVER PIPE WHEN THE DEPTH OF COVER IS LESS THAN THE MINIMUM FOR THE SPECIFIC TYPE OF PIPE PER THESE STANDARDS.
 - CONCRETE CAP SHALL BE CLASS 450-C-2000 PER THE CONTRACT SPECIFICATIONS.

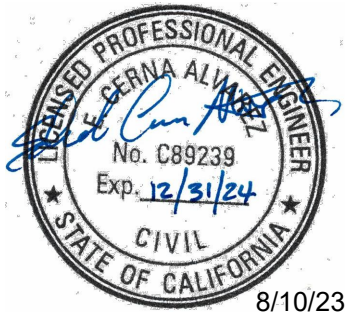
2 DETAIL
- TRENCH BACKFILL NTS



3 DETAIL
- TRENCH RESURFACING DETAILS NTS



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SHEET NAME
TYPICAL DETAILS 4

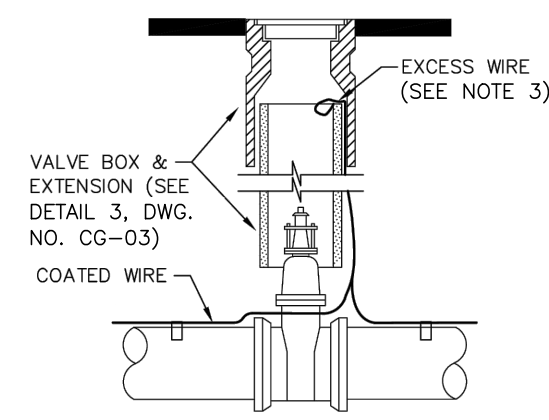
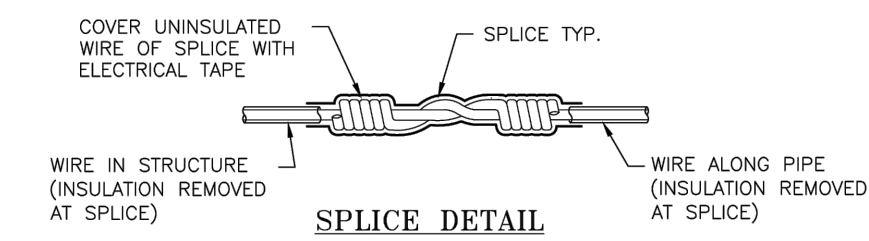
DWG. NO.

CG-04

SHEET NO.

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DETAIL AT WATER VALVE

NTS

- ① LOCATING WIRE SHALL BE INSTALLED IN CONJUNCTION WITH WARNING TAPE ON ALL PIPELINES (INCLUDING LINES TO FIRE HYDRANTS, BLOWOFFS, WATER SERVICES, GATE VALVES, AND AIR VALVES).
- ② WIRE SHALL NOT TOUCH METALLIC STRUCTURES, VALVES, OR FITTINGS (MAINTAIN 3 INCHES CLEAR DISTANCE).
- ③ WIRE SHALL BE PLACED WITHIN 6"-12" OF TOP OF STRUCTURES AND WITH SUFFICIENT EXCESS TO ALLOW FOR ABOVE GROUND CONNECTION TO LOCATING EQUIPMENT (2 FOOT MIN).
- ④ LOCATING WARNING TAPE SHALL BE INSTALLED 12 INCHES ABOVE PIPELINE (INCLUDING LINES TO FIRE HYDRANTS, BLOWOFFS, WATER SERVICES, GATE VALVES, AND AIR VALVES) AND SHALL BE UNBROKEN FOR THE ENTIRE RUN OF THE PIPE.



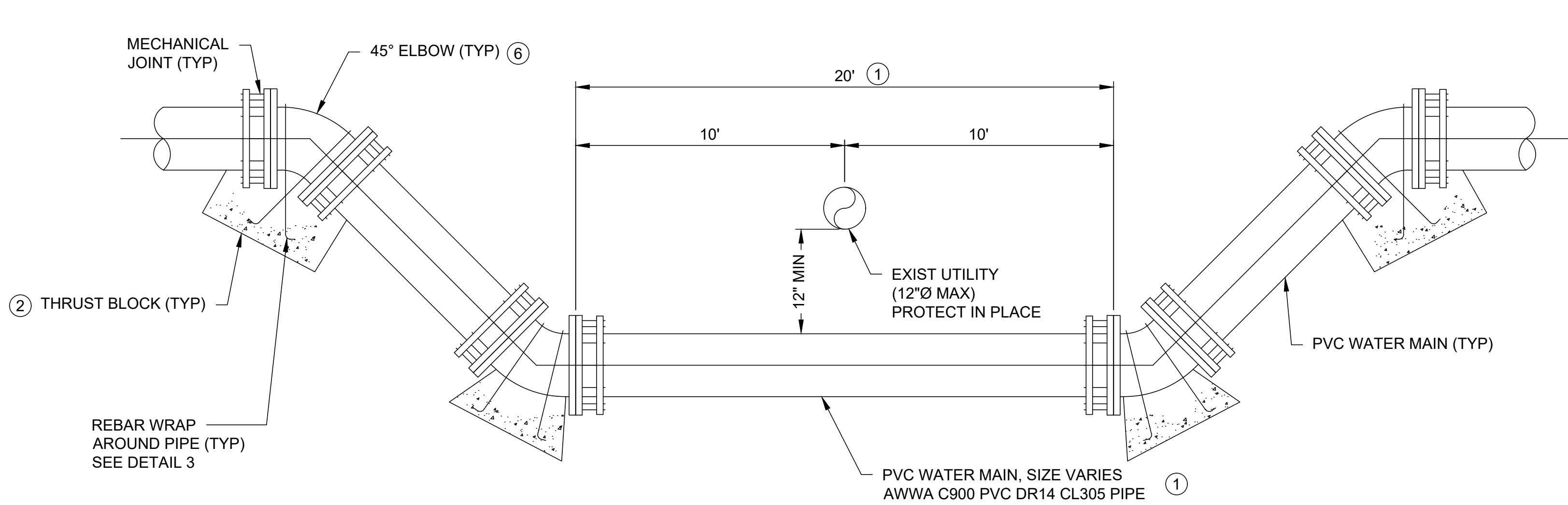
<i>Designed:</i>	E. CERNA ALVAREZ
<i>Drawn:</i>	I. CRUZ
<i>Checked:</i>	M. MARTIN
<i>Approved:</i>	S. GALA
<i>P.E. No:</i>	C89239
<i>GEI Project:</i>	1408520



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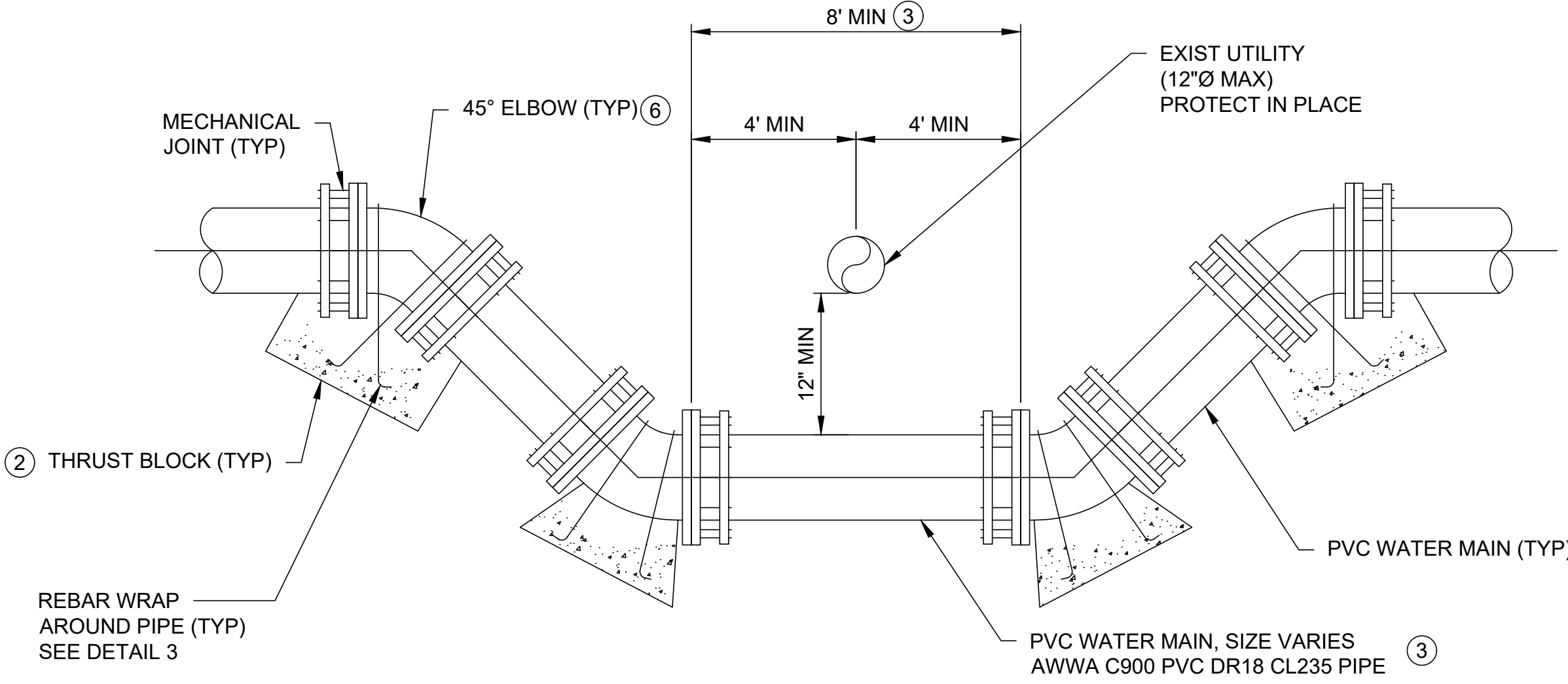
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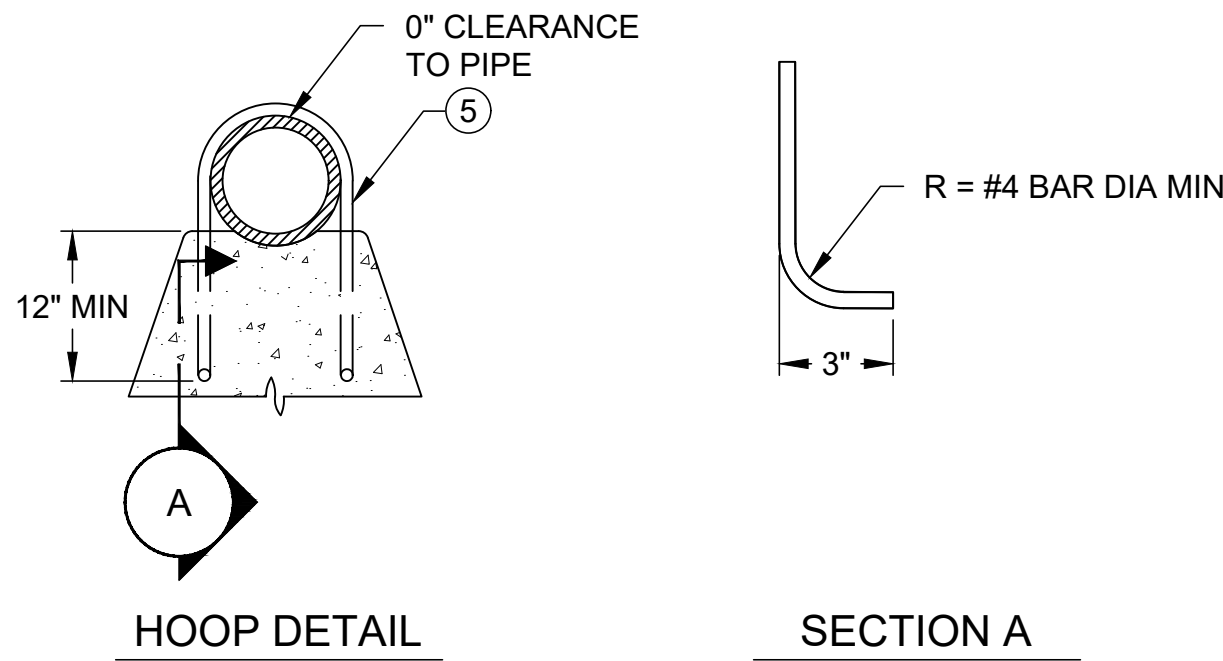
FOR EXISTING SEWER AND STORM DRAIN CROSSING (12"Ø OR LESS)

1
-
DETAIL
EXISTING UTILITY CROSSING
NTS

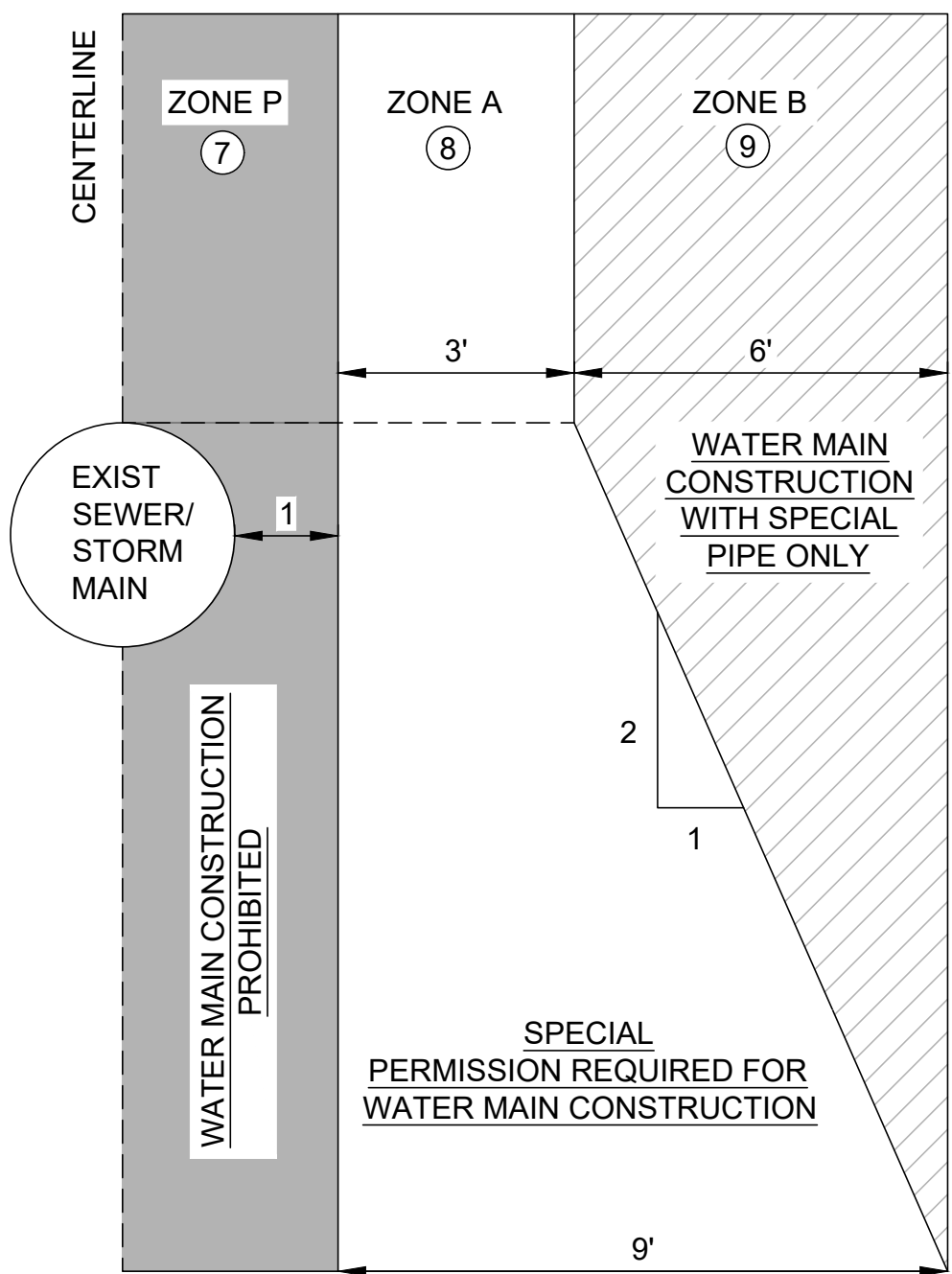


FOR EXISTING GAS, TEL, COMM, ELEC, AND WATER CROSSING (12"Ø OR LESS)

2
-
DETAIL
EXISTING UTILITY CROSSING
NTS



3
-
DETAIL
REBAR HOOP
NTS



4
-
DETAIL
WATER MAIN LOCATION PARAMETERS
NTS

NOTES:

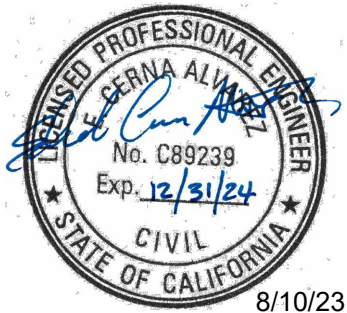
- 1 CONTRACTOR SHALL CENTER A 20-FOOT STICK OF AWWA C900 PVC DR14 CL305 PIPE UNDER THE CROSSING TO KEEP NEAREST PIPE JOINT 10-FEET AWAY (MEASURED FROM THE CENTERLINE OF THE UTILITY CROSSED).
- 2 THRUST BLOCK, SEE DETAIL 1 ON DWG. NO. CG-03. REBAR HOOPS CAST INTO THRUST BLOCK, SEE DETAIL 3 ON THIS DRAWING.
- 3 CONTRACTOR SHALL INSTALL ALL PIPE JOINTS A MINIMUM OF 4 FEET AWAY FROM THE CENTERLINE OF THE UTILITY CROSSED.
- 4 JOINT RESTRAINTS REQUIRED ON ALL FITTINGS IN ADDITION TO THRUST BLOCKS. SEE DWG. NO. CG-08 FOR JOINT RESTRAINT DETAILS.
- 5 SEE TABLE IV ON DWG. NO. CG-03 FOR MINIMUM REBAR REINFORCEMENT AREA.
- 6 WHERE FEASIBLE, THE CONTRACTOR CAN UTILIZE A MAX OF 1° OF JOINT DEFLECTION AT EACH PIPE JOINT TO ACCOMMODATE VERTICAL AND HORIZONTAL CHANGES IN ELEVATION AND ALIGNMENT INSTEAD OF USING ELBOW FITTINGS.

- 7 NO WATER MAIN CONSTRUCTION SHALL BE DONE WITHIN THE PROHIBITED ZONE (ZONE P).
- 8 SPECIAL PERMISSION MUST BE GRANTED FROM THE CITY OF ORLAND REPRESENTATIVE, CITY OF ORLAND PUBLIC WORKS DEPARTMENT, AND DIVISION OF DRINKING WATER FOR APPROVAL TO CONSTRUCT WATER MAIN WITHIN ZONE A.
- 9 SPECIAL PIPE TO BE USED FOR CONSTRUCTION OF WATER MAIN WITHIN ZONE B IS AWWA C900 PVC DR14 CL305.

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SHEET NAME
TYPICAL DETAILS 6

DWG. NO.

CG-06

SHEET NO.

14 OF 56

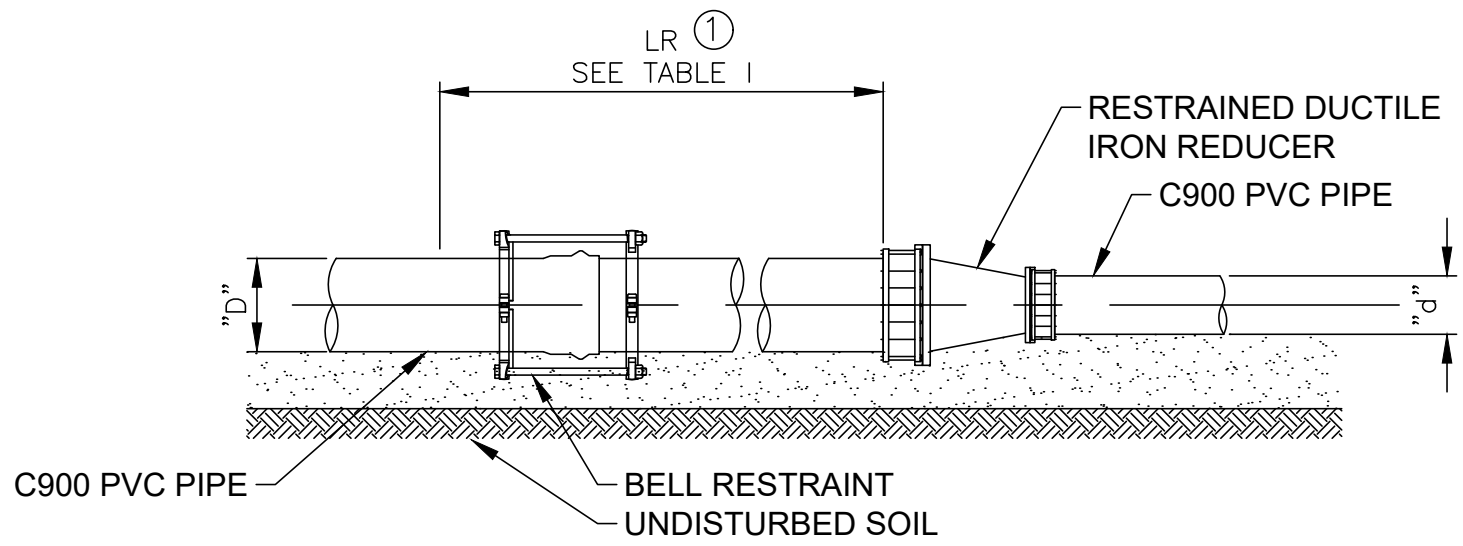


TABLE I MINIMUM RESTRAINED LENGTHS (LR) REDUCERS				
"D"	"d"			
	8 in.	6 in.	4 in.	
10 in.	40'-0"	60'-0"	80'-0"	
8 in.	N/A	40'-0"	60'-0"	
6 in.	N/A	N/A	40'-0"	

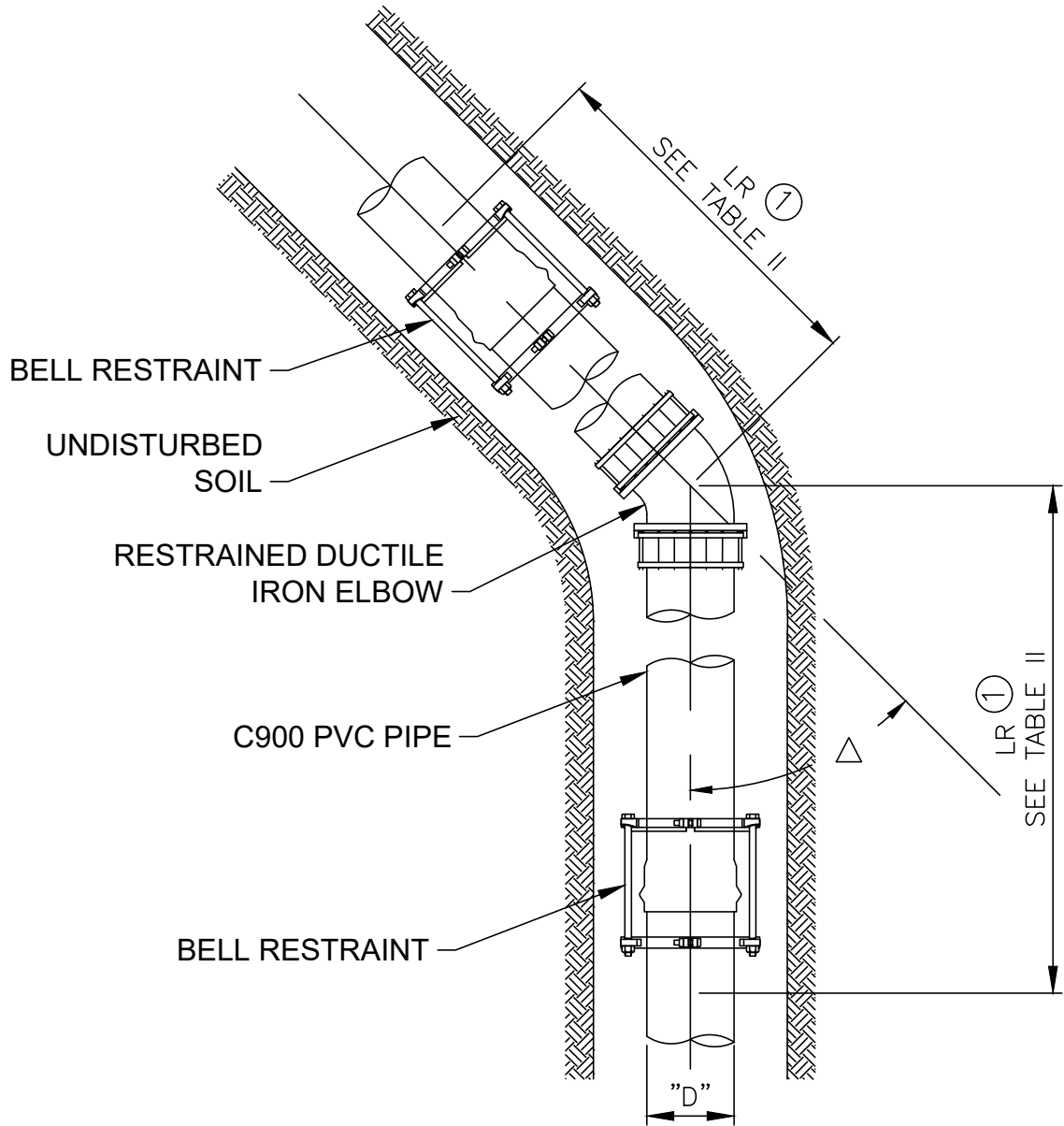


TABLE II MINIMUM RESTRAINED LENGTHS (LR) HORIZONTAL BENDS				
"D"	$\Delta = 90^\circ$	$\Delta = 45^\circ$	$\Delta = 22.5^\circ$	$\Delta = 11.25^\circ$
10 in.	40'-0"	20'-0"	10'-0"	10'-0"
8 in.	30'-0"	20'-0"	10'-0"	10'-0"
6 in.	30'-0"	10'-0"	10'-0"	10'-0"
4 in.	20'-0"	10'-0"	10'-0"	10'-0"

NOTES:

1. PROVIDE POLYETHYLENE SHEET (8 MIL MIN) BETWEEN FITTINGS AND/OR VALVES, REBAR, AND CONCRETE.

CONSTRUCTION NOTES:

1. ALL JOINTS WITHIN THE LR LENGTH MUST BE RESTRAINED. IF THE DISTANCE BETWEEN TWO FITTINGS IS LESS THAN OR EQUAL TO THE LR LENGTH, RESTRAIN ALL JOINTS BETWEEN THOSE FITTINGS.

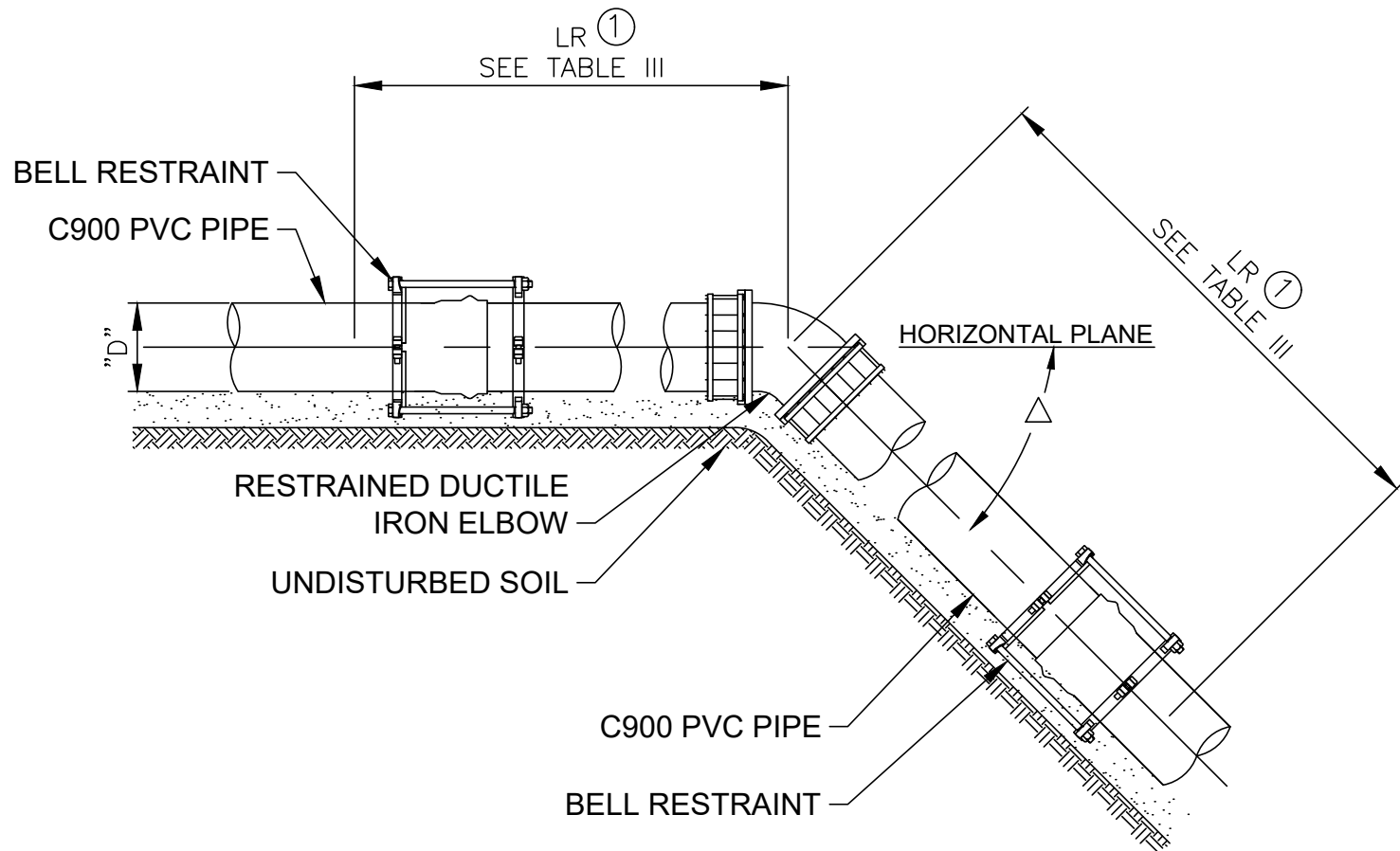


TABLE III MINIMUM RESTRAINED LENGTHS (LR) UPPER VERTICAL BENDS				
"D"	$\Delta = 90^\circ$	$\Delta = 45^\circ$	$\Delta = 22.5^\circ$	$\Delta = 11.25^\circ$
10 in.	100'-0"	40'-0"	20'-0"	10'-0"
8 in.	80'-0"	40'-0"	20'-0"	10'-0"
6 in.	60'-0"	30'-0"	20'-0"	10'-0"
4 in.	50'-0"	20'-0"	10'-0"	10'-0"



TABLE IV MINIMUM RESTRAINED LENGTHS (LR) LOWER VERTICAL BENDS				
"D"	$\Delta = 90^\circ$	$\Delta = 45^\circ$	$\Delta = 22.5^\circ$	$\Delta = 11.25^\circ$
10 in.	40'-0"	20'-0"	10'-0"	10'-0"
8 in.	30'-0"	20'-0"	10'-0"	10'-0"
6 in.	30'-0"	10'-0"	10'-0"	10'-0"
4 in.	20'-0"	10'-0"	10'-0"	10'-0"

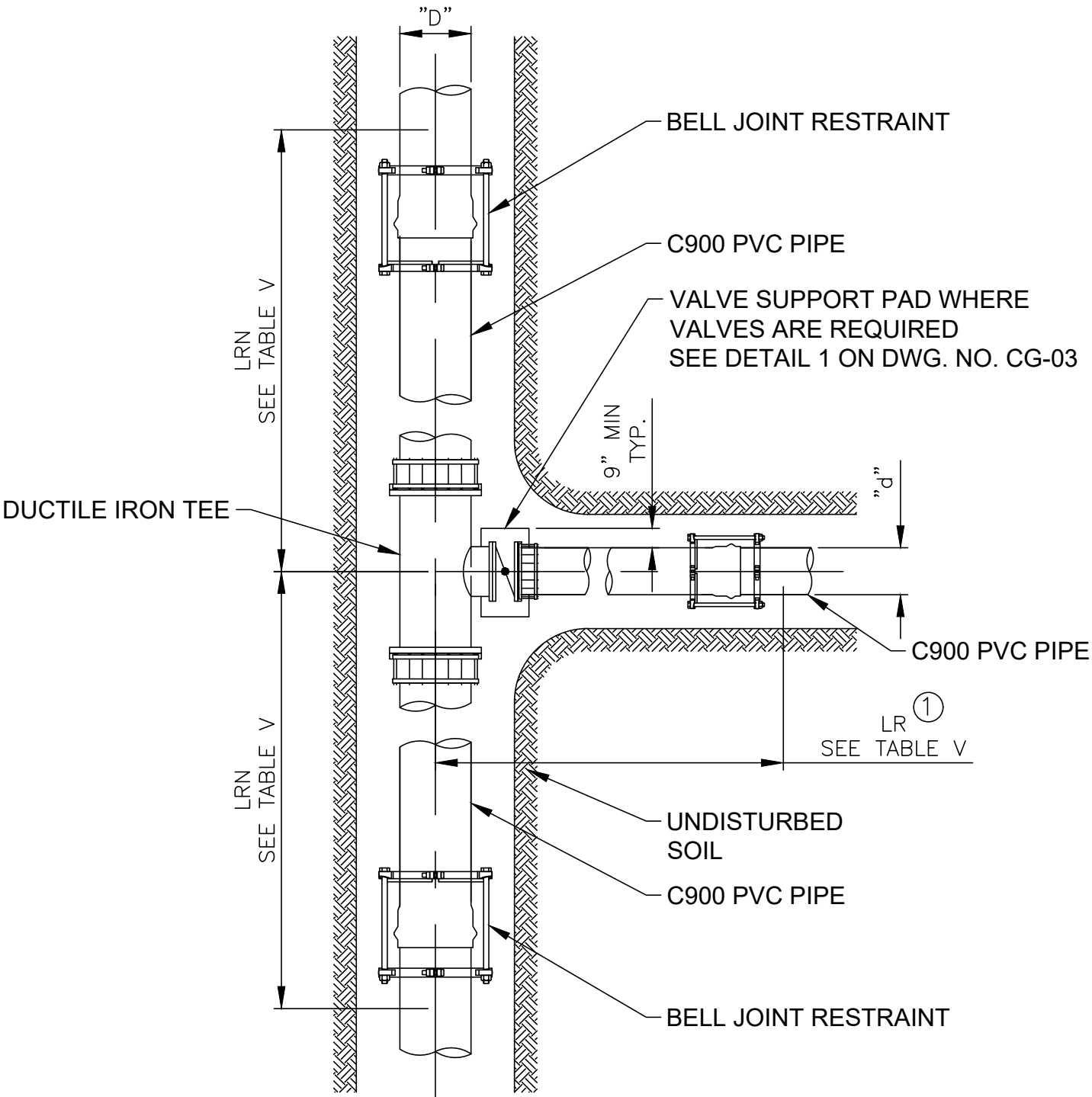
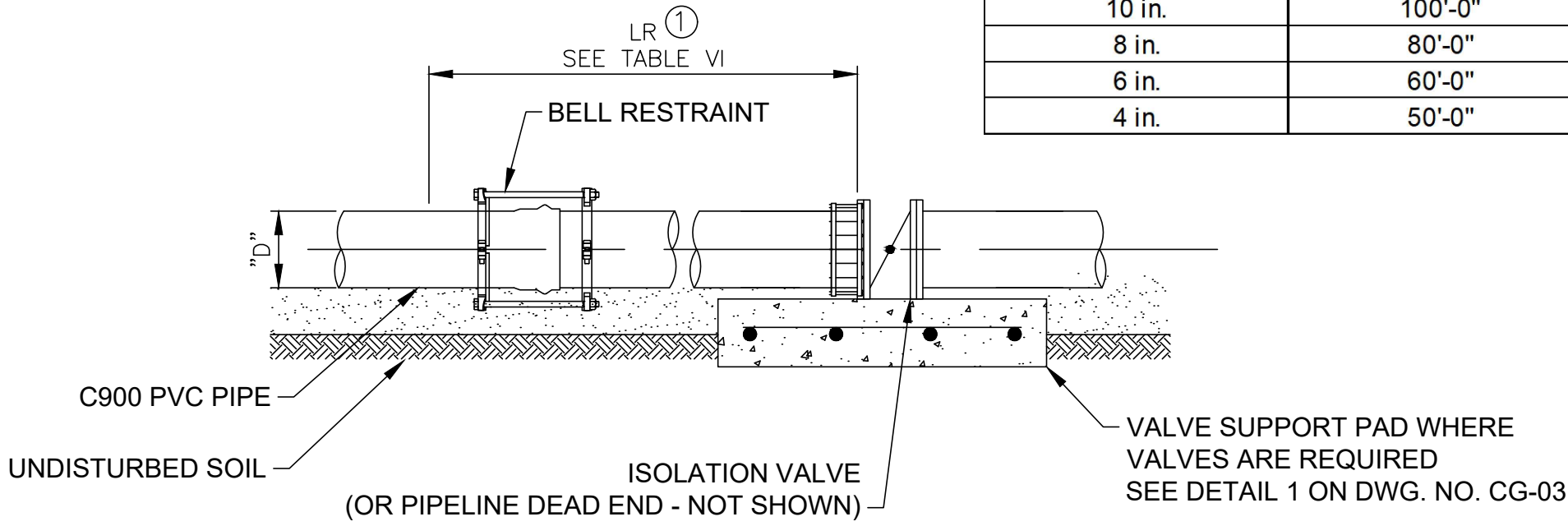


TABLE V MINIMUM RESTRAINED LENGTHS (LR) TEES (LRN = 10 FEET)				
"D"	"d"			
	10 in.	8 in.	6 in.	4 in.
10 in.	40'-0"	20'-0"	10'-0"	10'-0"
8 in.	60'-0"	30'-0"	10'-0"	10'-0"
6 in.	70'-0"	40'-0"	10'-0"	10'-0"
4 in.	80'-0"	60'-0"	30'-0"	10'-0"

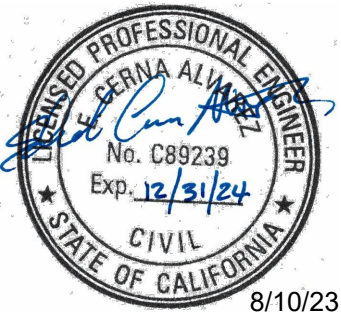
TABLE VI MINIMUM RESTRAINED LENGTHS (LR) DEAD END & ISOLATION VALVE	
"D"	DEAD END & ISOLATION VALVE
10 in.	100'-0"
8 in.	80'-0"
6 in.	60'-0"
4 in.	50'-0"



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GEI Project: 1408520



ORLAND EMERGENCY
GROUNDWATER
RESOURCE PROJECT
PHASE 2A
815 FOURTH STREET
ORLAND, CA

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SHEET NAME
TYPICAL DETAILS 8

DWG. NO.

CG-08

SHEET NO.

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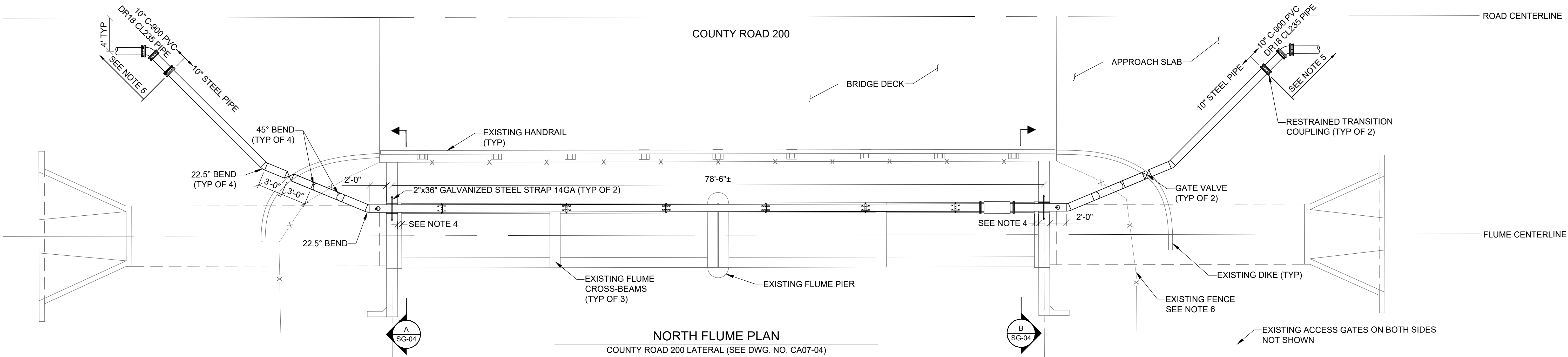
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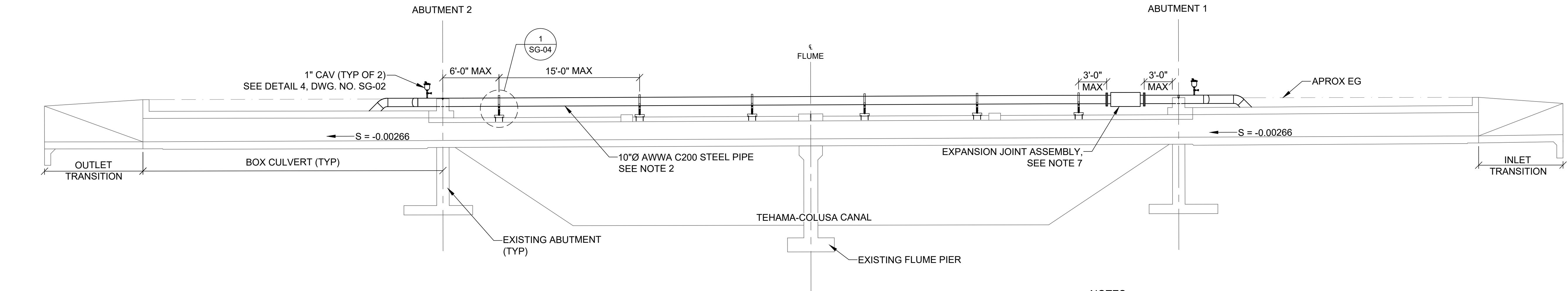


1. PROVIDE A NEOPRENE SLEEVE OF 1/8" MINIMUM THICKNESS BETWEEN PIPE AND HANGER.
2. MECHANICAL ANCHORS SHALL BE STUD OR SHELL TYPE AS IDENTIFIED IN THE CALTRANS AUTHORIZED MATERIALS LIST AND CALTRANS 2022 STANDARD SPECIFICATION SECTION 75-3.02C.
3. ORIFICES SHALL BE SOFT SEATED AND SIZED PER THE MANUFACTURER'S RECOMMENDATIONS, WITH AN ANTICIPATED OPERATING PRESSURE RANGE BETWEEN 40 PSI AND 80 PSI AND AN OPERATING FLOW RATE BETWEEN 0 GPM AND 2000 GPM.
4. THE FINAL AIR VALVE AND VAULT LOCATIONS SHALL BE AS DIRECTED BY THE CITY IN THE FIELD.
5. CONTRACTOR TO AVOID DECK REINFORCEMENT WHEN DRILLING FOR ANCHORS.
6. CONTRACTOR TO SUBMIT A CONCRETE-REBAR SCAN PLAN FOR APPROVAL FROM ENGINEER PRIOR TO ANY ABUTMENT PERFORATION WORK.

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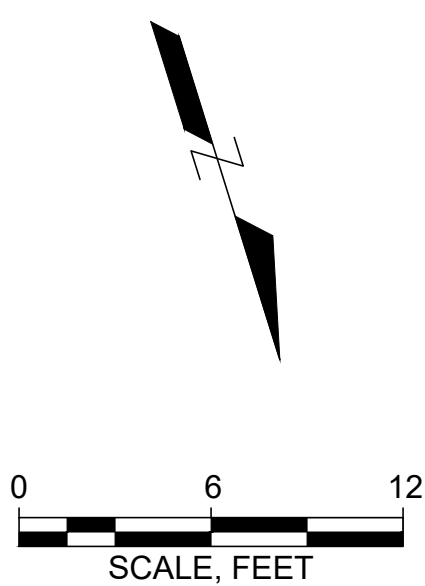
NORTH FLUME PLAN
COUNTY ROAD 200 LATERAL (SEE DWG. NO. CA07-04)



NORTH FLUME ELEVATION LOOKING SOUTH
COUNTY ROAD 200 LATERAL (SEE DWG. NO. CA07-04)

NOTES

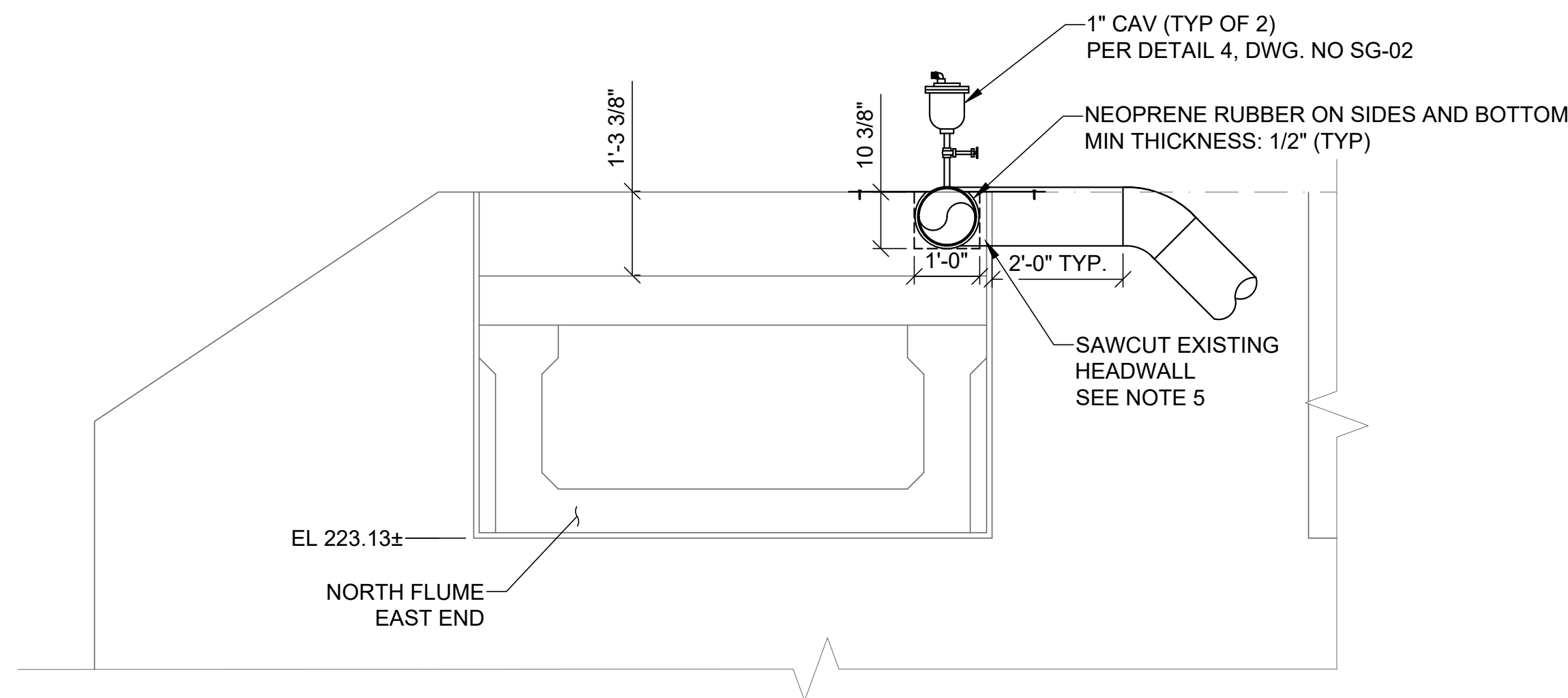
- CONTRACTOR SHALL PERFORM DETAILED SURVEY OF BRIDGE PRIOR TO DEVELOPING PIPE LAYOUT DRAWINGS FOR SUBMITTAL REVIEW. SURVEY SHALL INCLUDE GATHERING ALL ELEVATIONS AND DISTANCES OF ALL FEATURES OF BRIDGE AND GROUND NECESSARY TO DEVELOP A DETAILED PIPE PLAN AND PROFILE LAYOUT. PRIOR TO PIPE FABRICATION, CONTRACTOR SHALL DEVELOP AND SUBMIT FOR APPROVAL, DETAILED PIPE DRAWING LAYOUT(S) SHOWING PLAN AND PROFILE OF PIPELINE CROSSING, INCLUDING ALL SUPPORT CONNECTIONS TO THE BRIDGE. LAYOUT DRAWINGS SHALL EXTEND FROM CONNECTION TO PIPELINE IN THE STREET ON THE WEST SIDE OF THE BRIDGE TO THE PIPELINE CONNECTION TO THE STREET ON THE EAST SIDE OF THE BRIDGE. THE LAYOUT DRAWINGS SUBMITTAL SHALL ALSO INCLUDE ALL PIPE FABRICATION DRAWINGS, FITTING FABRICATION DETAILS, PIPE APPURTENANCE DETAILS, MATERIALS LIST, BRIDGE SUPPORT DETAILS AND MATERIALS, AND ALL OTHER ITEMS REQUIRED TO COMPLETE CROSSING.
- ALL STEEL PIPE ABOVE GROUND SHALL HAVE BUTT WELDED JOINTS AND BE EPOXY COATED AND CEMENT MORTAR LINED AND BE A MINIMUM STEEL CYLINDER THICKNESS OF 1/4".
- ALL STEEL PIPE BELOW GROUND SHALL HAVE BUTT WELDED JOINTS AND BE CEMENT MORTAR LINED AND COATED AND BE A MINIMUM STEEL CYLINDER THICKNESS OF 1/4".
- CEMENT-MORTAR COATING OF STEEL PIPE SHALL EXTEND UP TO 6-INCHES ABOVE GROUND.
- PVC PIPE JOINT RESTRAINTS AND FITTINGS REQUIRED ON ALL JOINTS AND FITTINGS WITHIN 100 FEET.
- CONTRACTOR TO REPLACE ANY EXISTING FENCE REMOVED OR DAMAGED DURING CONSTRUCTION.
- EXPANSION JOINT ASSEMBLIES SHALL BE THE FORCE BALANCED EX-TEND AS MANUFACTURED BY EBAA IRON, INC. OR APPROVED EQUAL.
- CONTRACTOR SHALL PROTECT BRIDGE STRUCTURE FROM DAMAGE, INCLUDING DECK, ABUTMENTS, PIERS, RAILINGS, SURFACING, EXISTING UTILITIES, ETC.



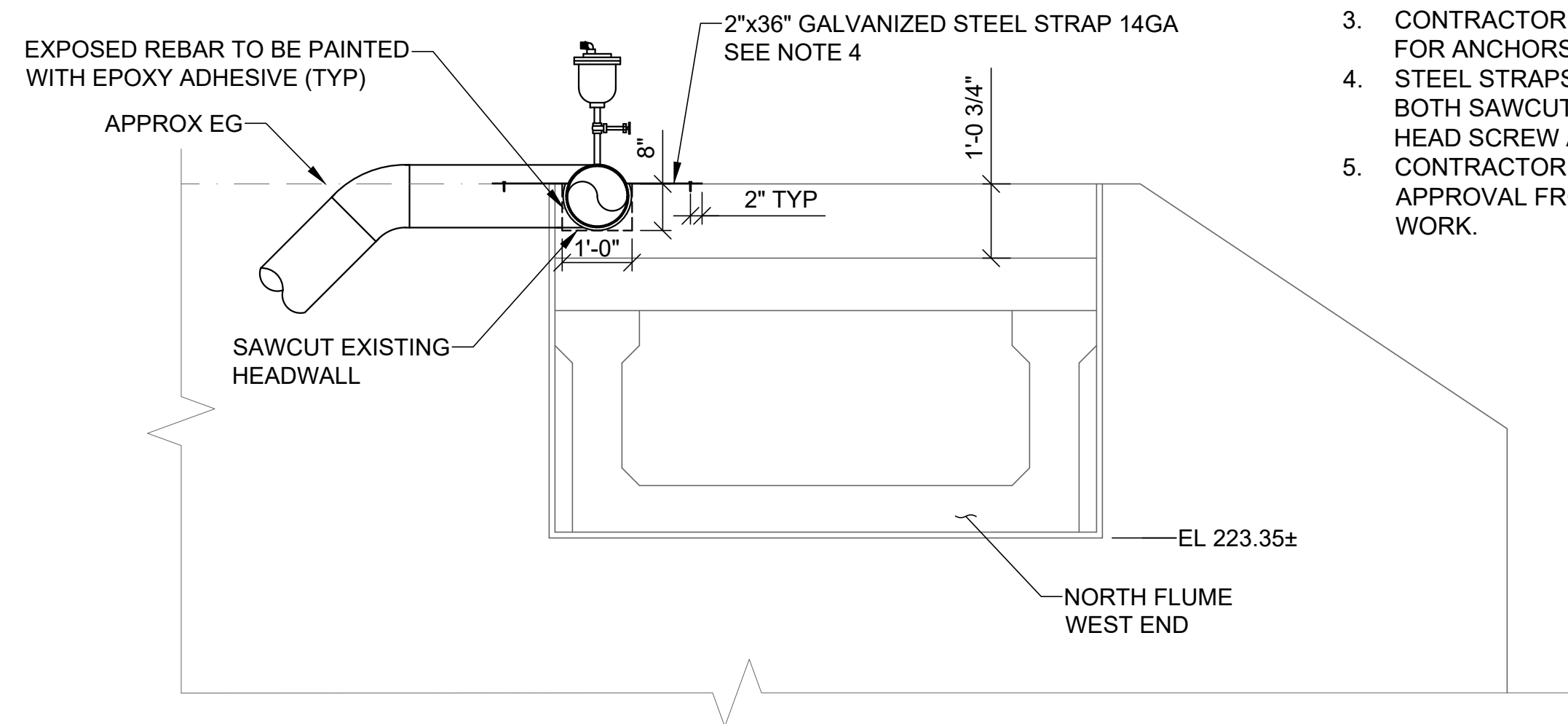
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<div>Attention:</div> <div><div>01"=12"</div><div>If this scale bar does not measure 1" then drawing is not original scale.</div></div> <div><div>USA NORTH 811</div><div>Call 811 Before You Dig</div></div>		Designed: K. AMIRINENI	 <div>GEI Consultants</div> <div>GEI CONSULTANTS, INC.</div> <div>2868 PROSPECT PARK DRIVE</div> <div>SUITE 400</div> <div>RANCHO CORDOVA, CA 95670</div> <div>(916)631-4500</div>	 <div>CITY OF ORLAND</div> <div>815 FOURTH ST.</div> <div>ORLAND, CA 95963</div>	ORLAND EMERGENCY GROUNDWATER RESOURCE PROJECT PHASE 2A 815 FOURTH STREET ORLAND, CA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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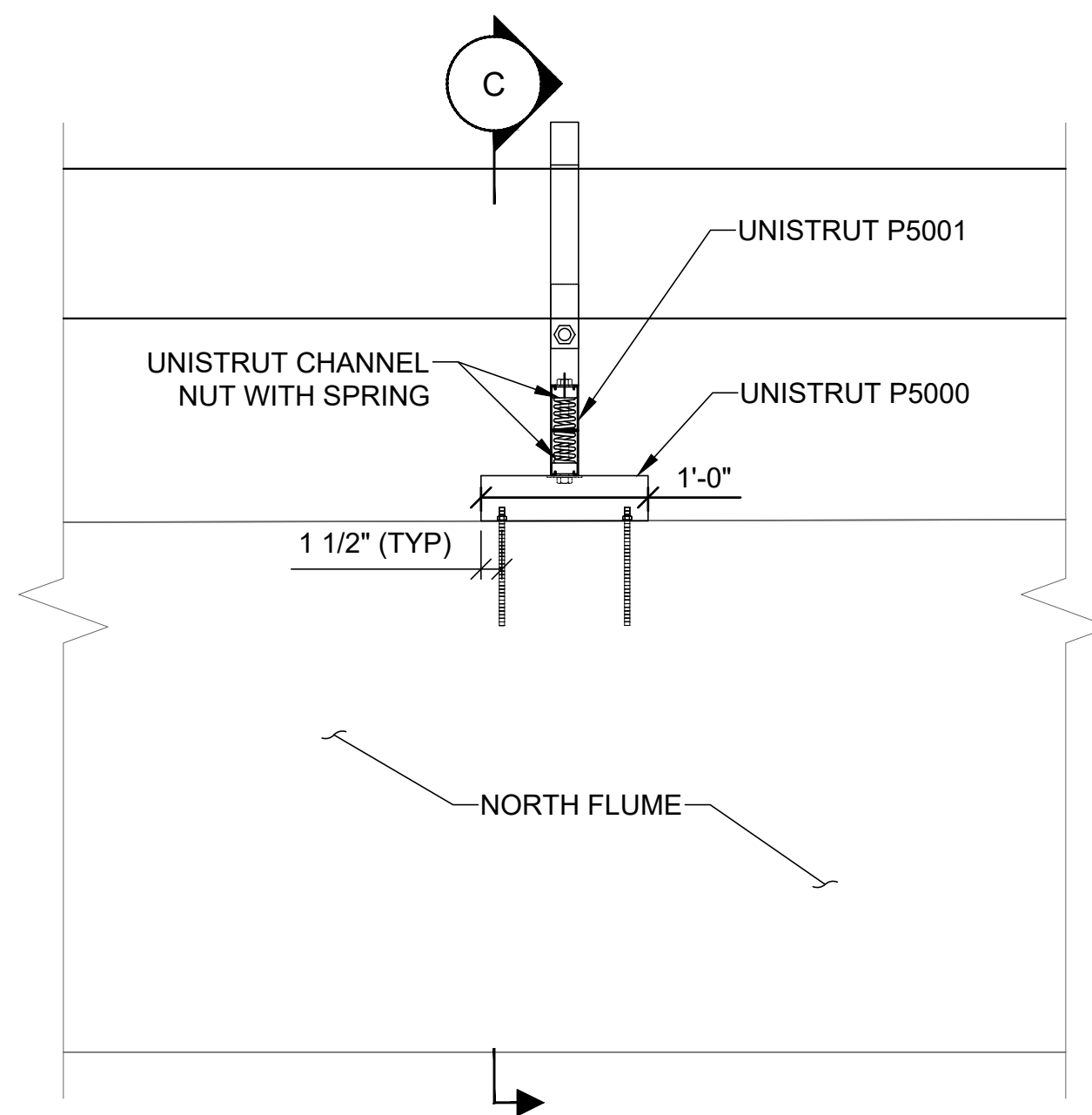
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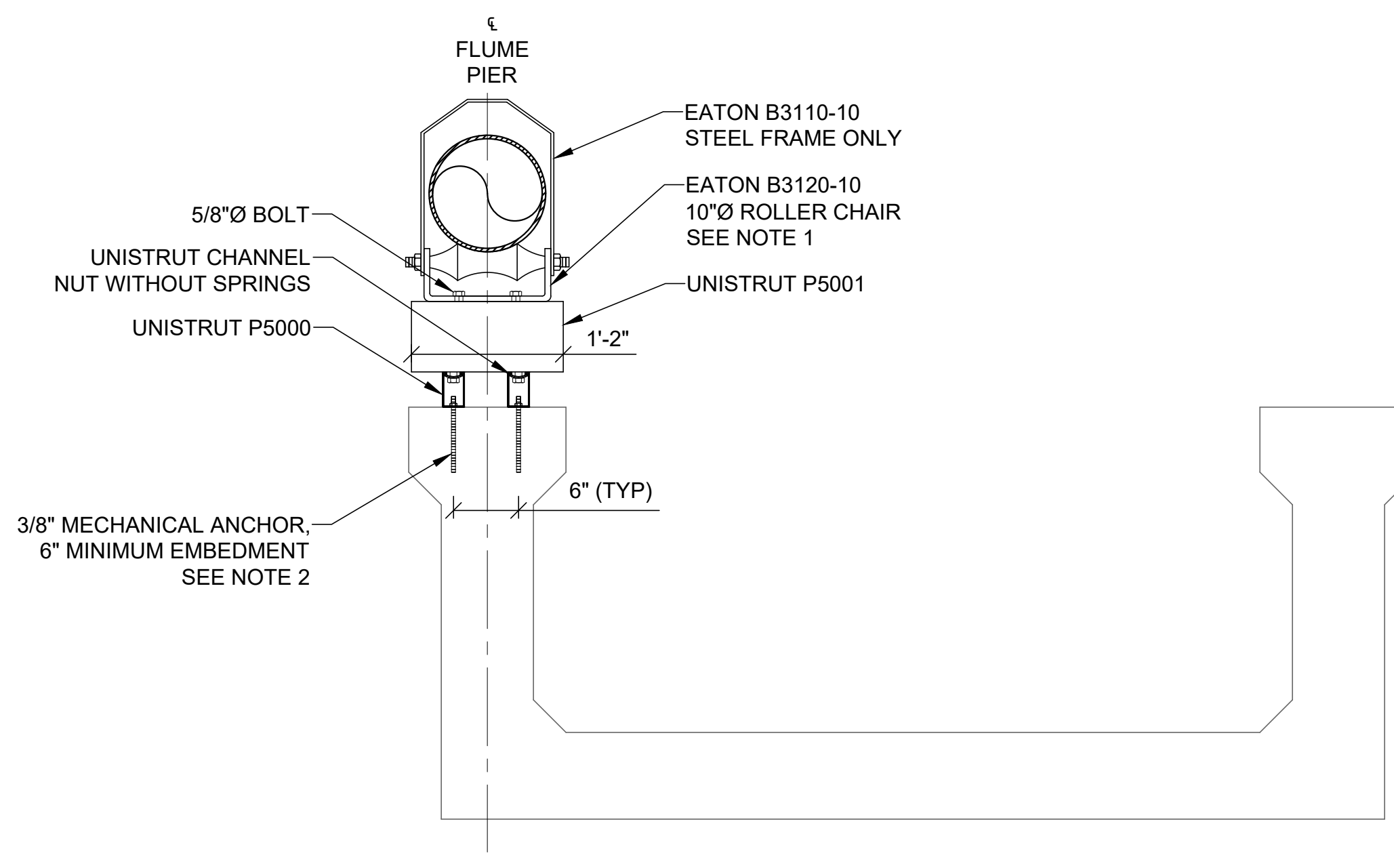
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SG-03 ABUTMENT 2



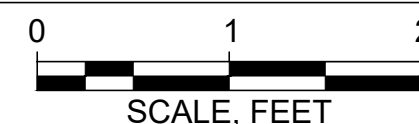
B SECTION
SG-03 ABUTMENT 1



1 DETAIL
SG-03 UNISTRUT SUPPORT



C SECTION
UNISTRUT SUPPORT



NOTES

1. PROVIDE A NEOPRENE SLEEVE OF 1/8" MINIMUM THICKNESS BETWEEN PIPE AND HANGER.
2. MECHANICAL ANCHORS SHALL BE STUD OR SHELL TYPE AS IDENTIFIED IN THE CALTRANS AUTHORIZED MATERIALS LIST AND CALTRANS 2022 STANDARD SPECIFICATION SECTION 75-3.02C.
3. CONTRACTOR TO AVOID FLUME REINFORCEMENT WHEN DRILLING FOR ANCHORS.
4. STEEL STRAPS TO BE ANCHORED OVER PIPE AT THE CENTER OF BOTH SAWCUT SECTIONS WITH A TAPCON BLUE CLIMASEAL HEX HEAD SCREW AT 2" FROM THE ENDS OF THE STRAPS.
5. CONTRACTOR TO SUBMIT A CONCRETE-REBAR SCAN PLAN FOR APPROVAL FROM ENGINEER PRIOR TO ANY ABUTMENT PERFORATION WORK.

ISSUED FOR BID



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Designed: K. AMIRINEN
Drawn: J. AVILA
Checked: M. MARTIN
Approved: S. GALA
P.E. No: C78724
GEI Project: 1408520



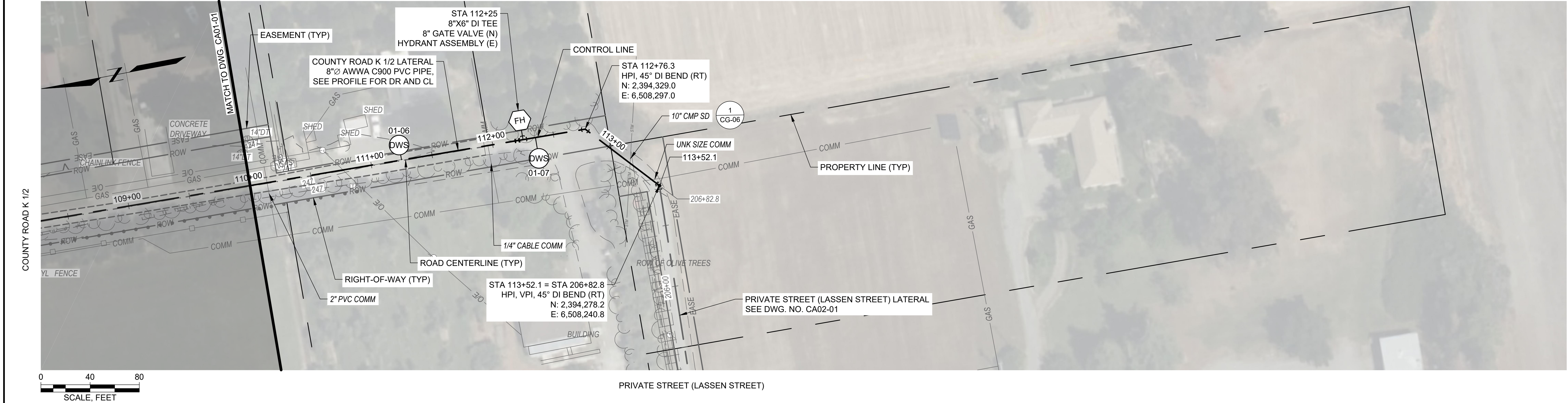
**ORLAND EMERGENCY
GROUNDWATER
RESOURCE PROJECT
PHASE 2A**
815 FOURTH STREET
ORLAND, CA

0			
NO	DATE	ISSUE/REVISION	APP

SHEET NAME
**COUNTY ROAD 200
BRIDGE CROSSING
DETAILS 2**

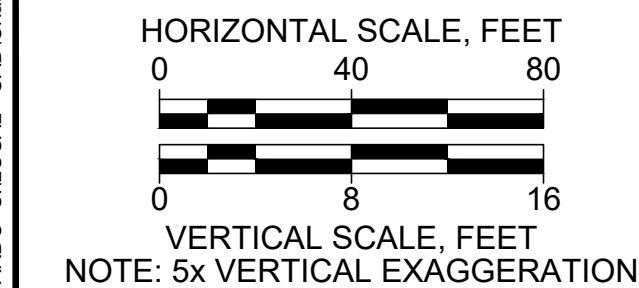
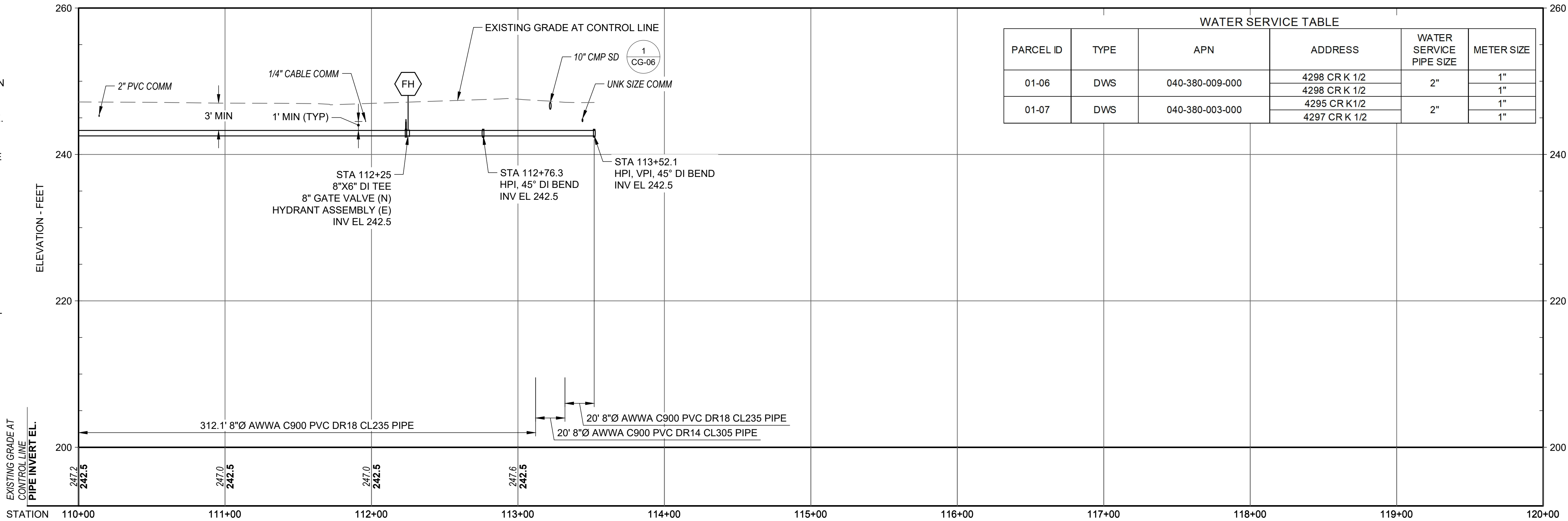
DWG. NO.
SG-04
SHEET NO.
20 OF 56

CERNA ALVAREZ, EDUARDO C:\LOCAL - CAD\Orlando\0 CAD (LOCAL)\Design\Sheets\Phase 2\CA01_Cr K 1-2.dwg - 8/10/2023



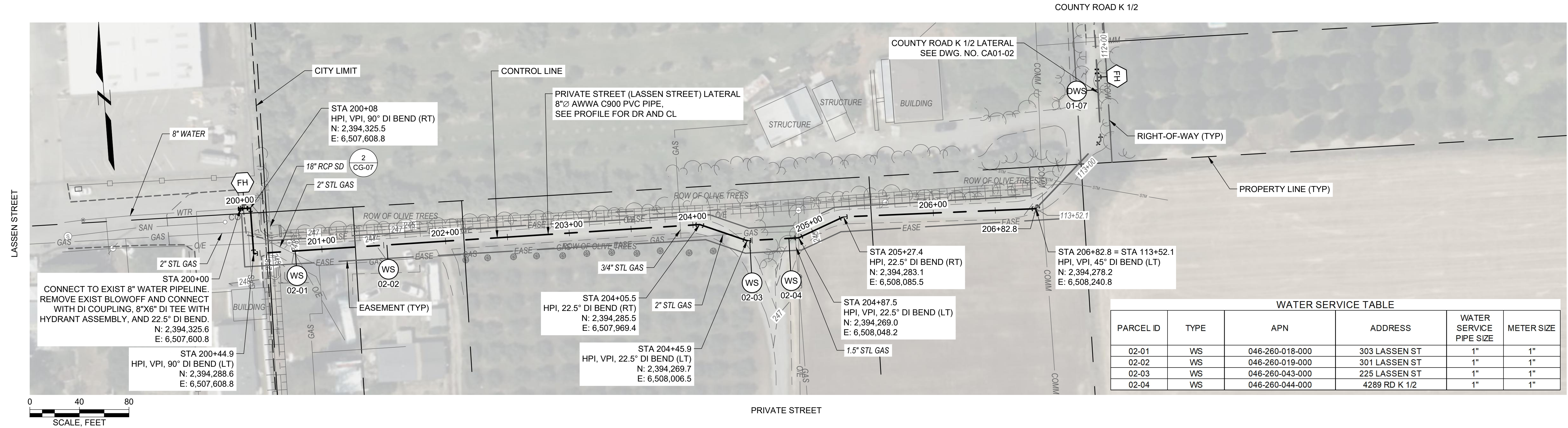
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NO	DATE	ISSUE/REVISION	APP																																					

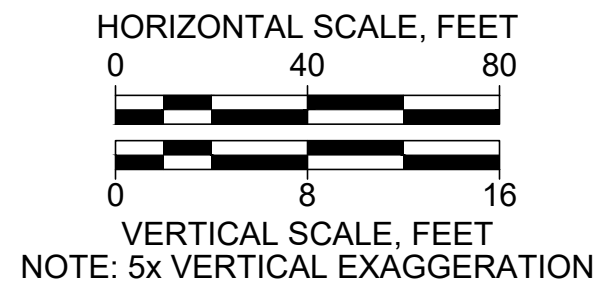
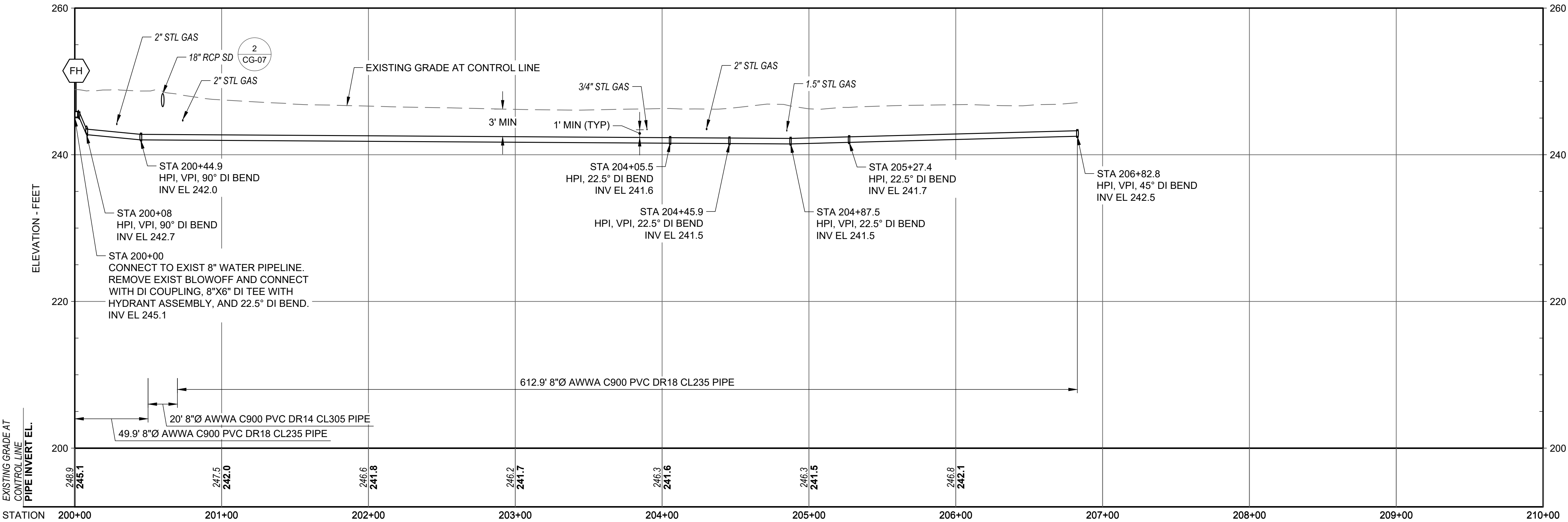
CERNA ALVAREZ, EDUARDO C:\LOCAL - CAD\Orland\9.0 CAD (LOCAL)\Design\Sheets\Phase 2\CA02_PRIVATE ST_CR K1-2.dwg - 8/10/2023



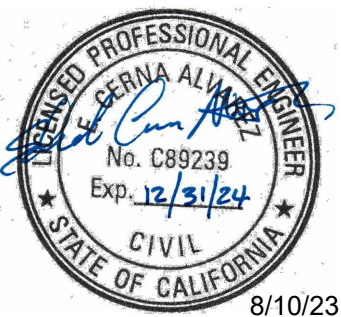
WATER SERVICE TABLE					
PARCEL ID	TYPE	APN	ADDRESS	WATER SERVICE PIPE SIZE	METER SIZE
02-01	WS	046-260-018-000	303 LASSEN ST	1"	1"
02-02	WS	046-260-019-000	301 LASSEN ST	1"	1"
02-03	WS	046-260-043-000	225 LASSEN ST	1"	1"
02-04	WS	046-260-044-000	4289 RD K 1/2	1"	1"

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Designed: E. CERNA ALVAREZ
Drawn: I. CRUZ
Checked: M. MARTIN
Approved: S. GALA
P.E. No: C89239
GEI Project: 1408520



**ORLAND EMERGENCY
GROUNDWATER
RESOURCE PROJECT
PHASE 2A**
815 FOURTH STREET
ORLAND, CA

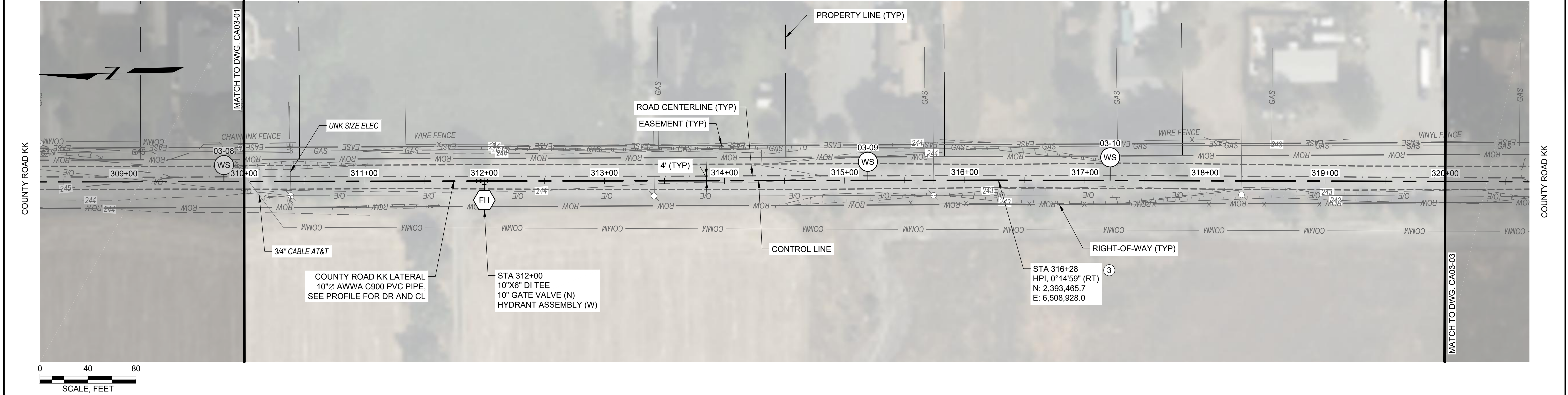
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SHEET NAME
**PRIVATE ST (LASSEN ST)
LATERAL PLAN & PROF
STA 200+00 TO 206+82.8**

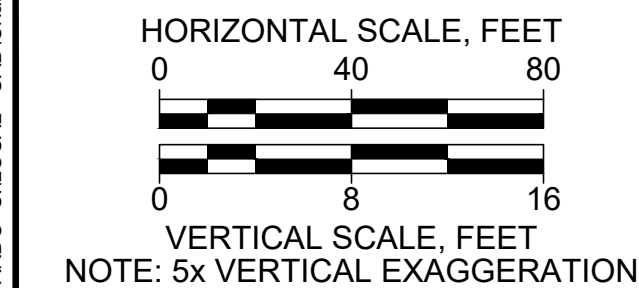
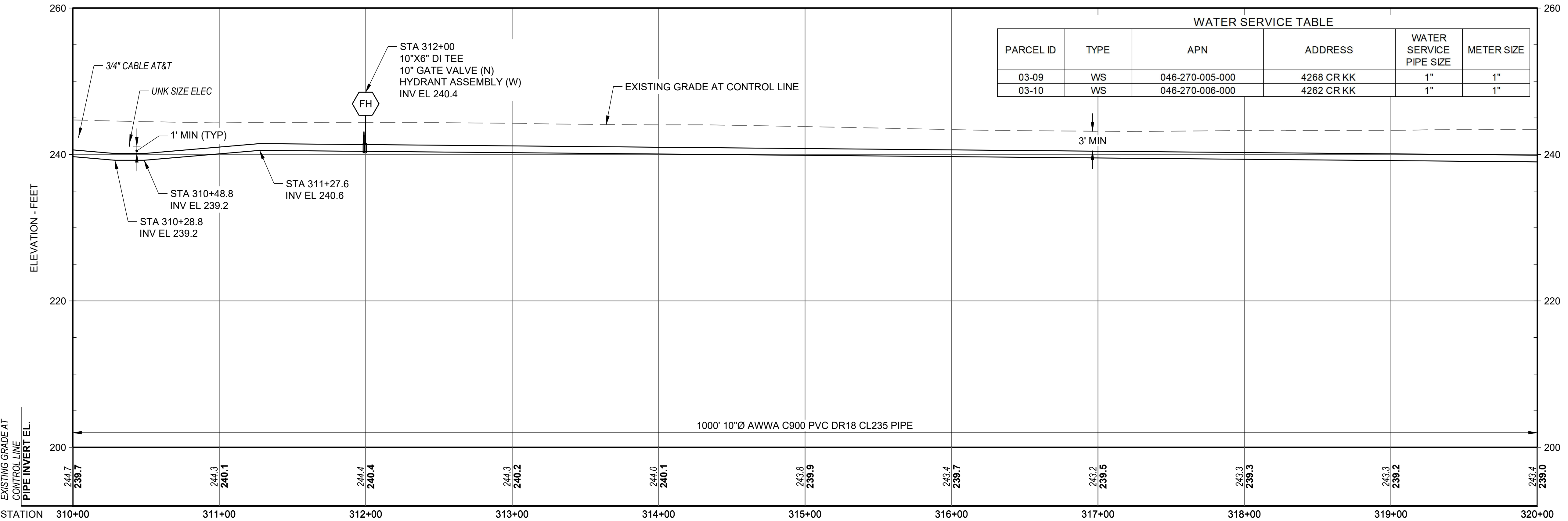
DWG. NO.
CA02-01
SHEET NO.
23 OF 56

ISSUED FOR BID

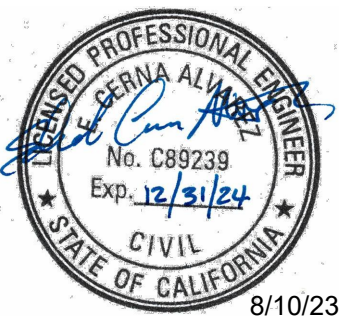
CERNA ALVAREZ, EDUARDO C:\LOCAL - CAD\Orland\9.0 CAD (LOCAL)\Design\Sheets\Phase 2\CA03_CR_KK.dwg - 8/10/2023



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Checked: M. MARTIN
Approved: S. GALA
P.E. No: C89239
GEI Project: 1408520



**ORLAND EMERGENCY
GROUNDWATER
RESOURCE PROJECT
PHASE 2A**
815 FOURTH STREET
ORLAND, CA

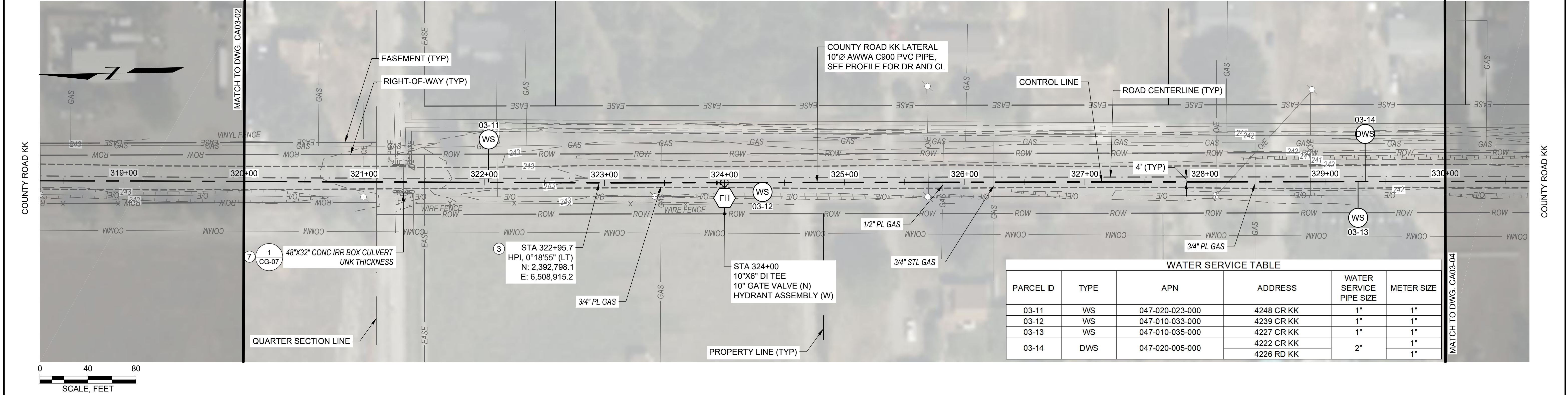
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NO	DATE	ISSUE/REVISION	APP

SHEET NAME
**COUNTY ROAD KK
LATERAL PLAN & PROF
STA 310+00 TO 320+00**

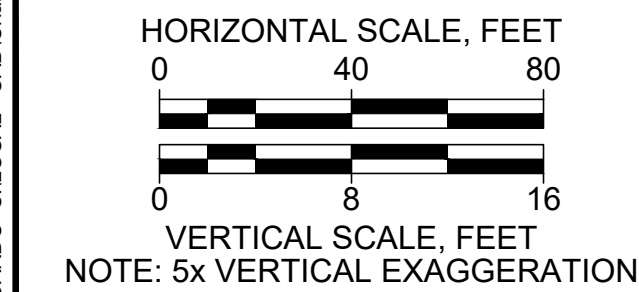
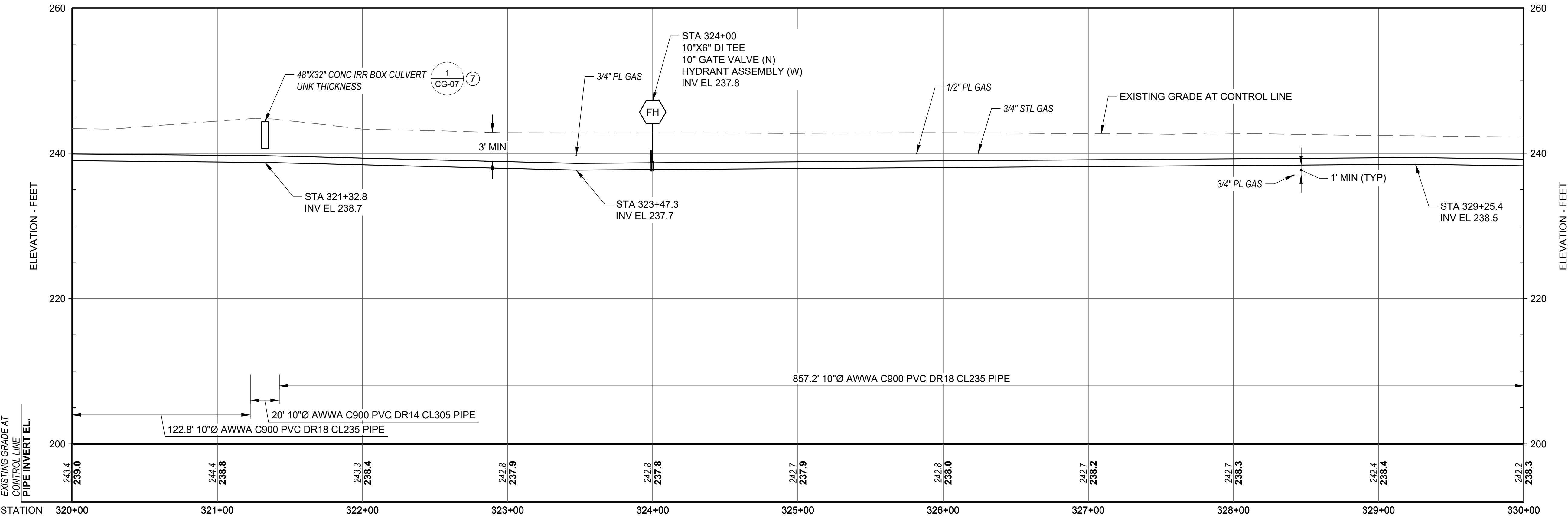
DWG. NO.
CA03-02
SHEET NO.
25 OF 56

ISSUED FOR BID

CERNA ALVAREZ, EDUARDO C:\LOCAL - CAD\Orland\9.0 CAD (LOCAL)\Design\Sheets\Phase 2\CA03_CR_KK.dwg - 8/10/2023

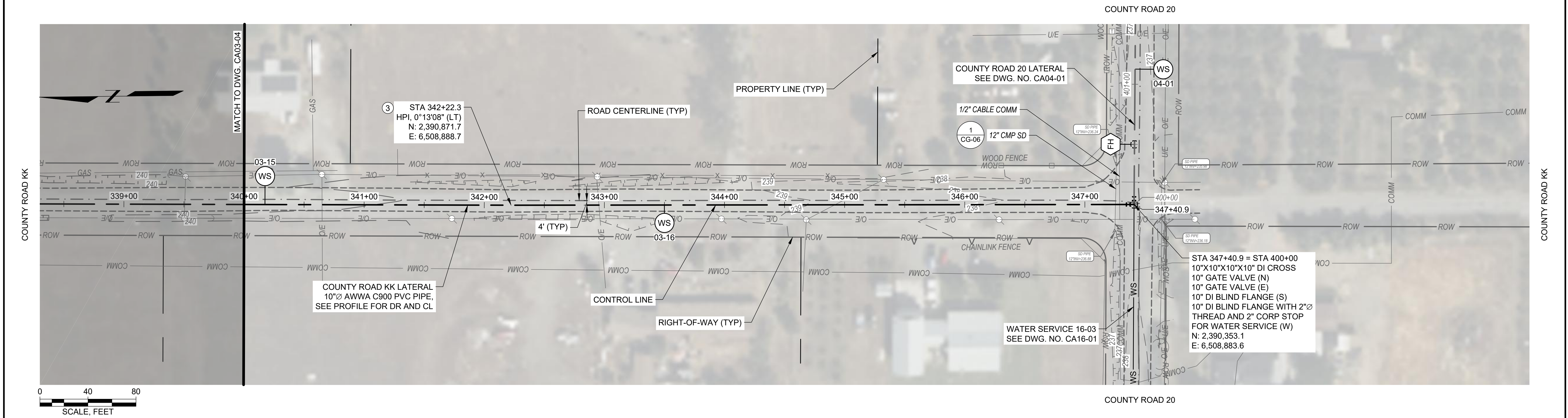


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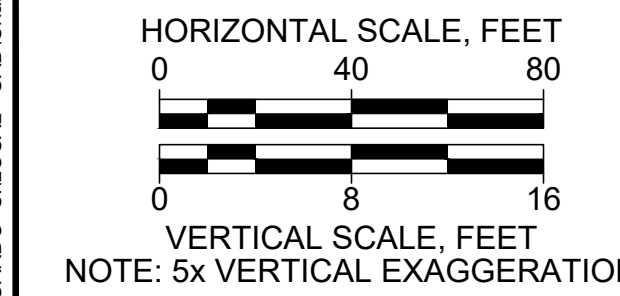
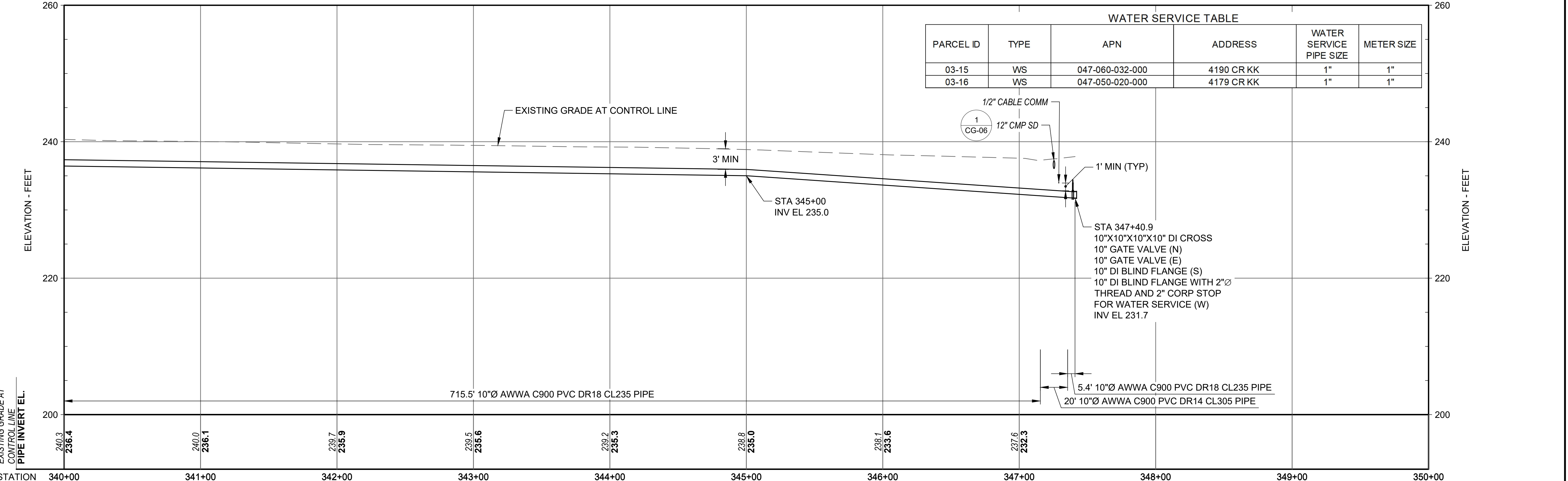


<p>Attention:</p> <p>0 1"</p> <p>If this scale bar does not measure 1" then drawing is not original scale.</p>		Designed: E. CERNA ALVAREZ			<p>ORLAND EMERGENCY GROUNDWATER RESOURCE PROJECT</p> <p>PHASE 2A</p> <p>815 FOURTH STREET ORLAND, CA</p>					<p>SHEET NAME</p> <p>COUNTY ROAD KK LATERAL PLAN & PROF</p> <p>STA 320+00 TO 330+00</p>	<p>DWG. NO.</p> <p>CA03-03</p> <p>SHEET NO.</p> <p>26 OF 56</p>
		Drawn: I. CRUZ									
		Checked: M. MARTIN									
		Approved: S. GALA									
		P.E. No: C89239									
GEI Project: 1408520											

CERNA ALVAREZ, EDUARDO - C:\LOCAL - CAD\Orlando\9.0 CAD (LOCAL)\Design\Sheets\Phase 2\CA03_CR_KK.dwg - 8/10/2023



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Attention:

Designed: E. CERNA ALVAREZ

Drawn: I. CRUZ

Checked: M. MARTIN

Approved: S. GALA

P.E. No: C89239

GEI Project: 1408520

**ORLAND EMERGENCY
GROUNDWATER
RESOURCE PROJECT
PHASE 2A**

815 FOURTH STREET
ORLAND, CA

NO	DATE	ISSUE/REVISION	APP
0			

SHEET NAME

**COUNTY ROAD KK
LATERAL PLAN & PROF
STA 340+00 TO 347+40.9**

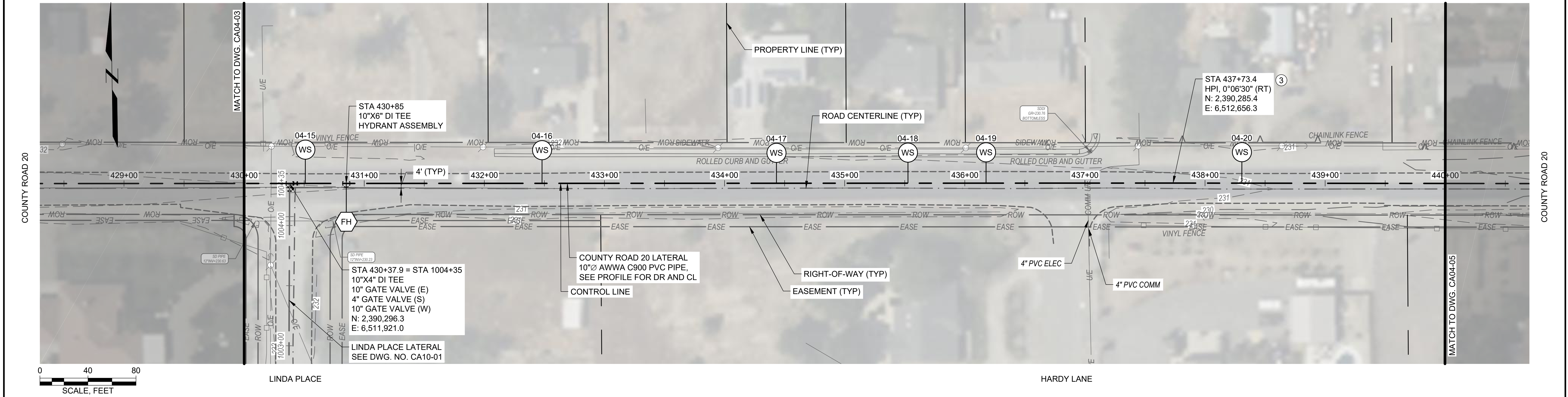
DWG. NO.

CA03-05

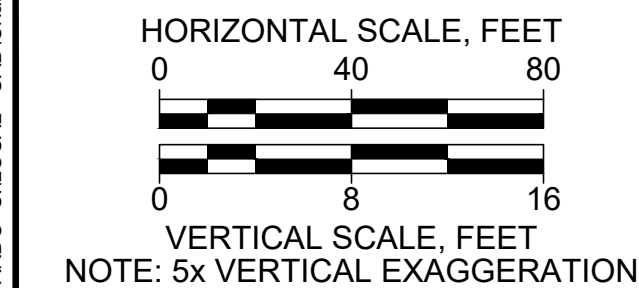
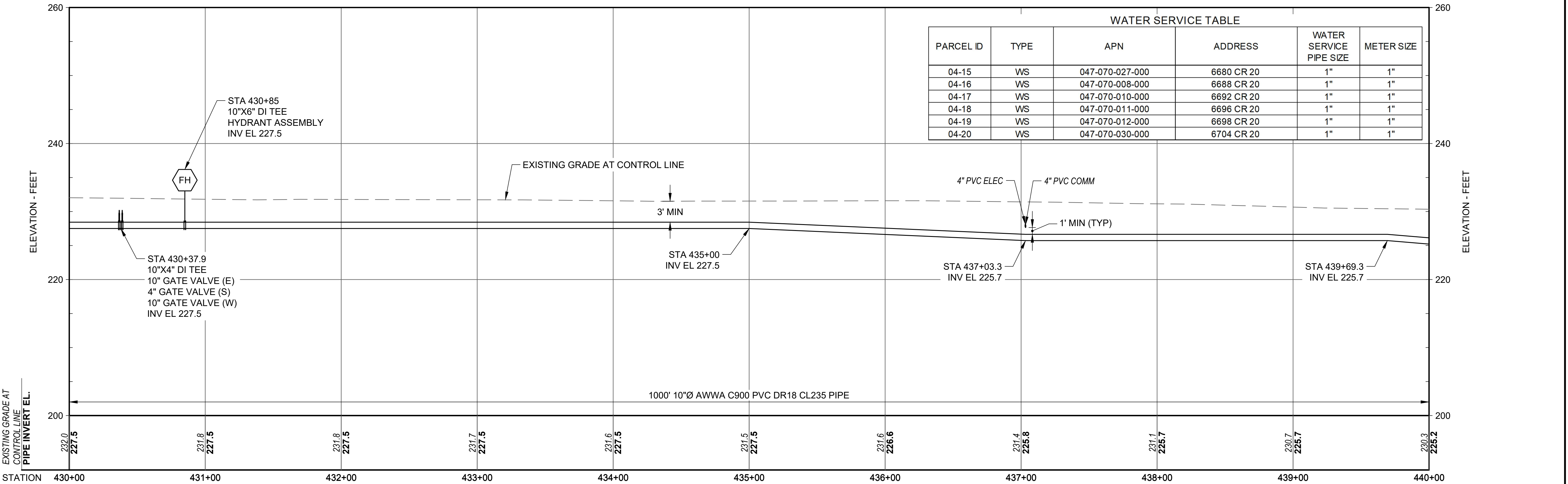
SHEET NO.

28 OF 56

CERNA ALVAREZ, EDUARDO C:\LOCAL - CAD\Orlando\0 CAD (LOCAL)\Design\Sheets\Phase 2\CA04_Cr 20.dwg - 8/10/2023

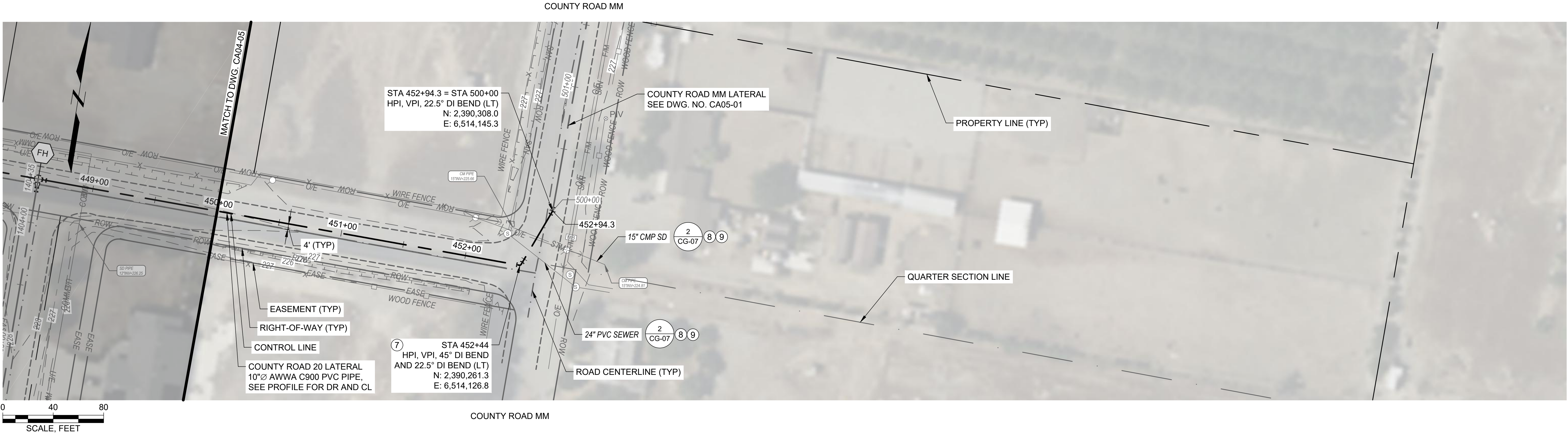


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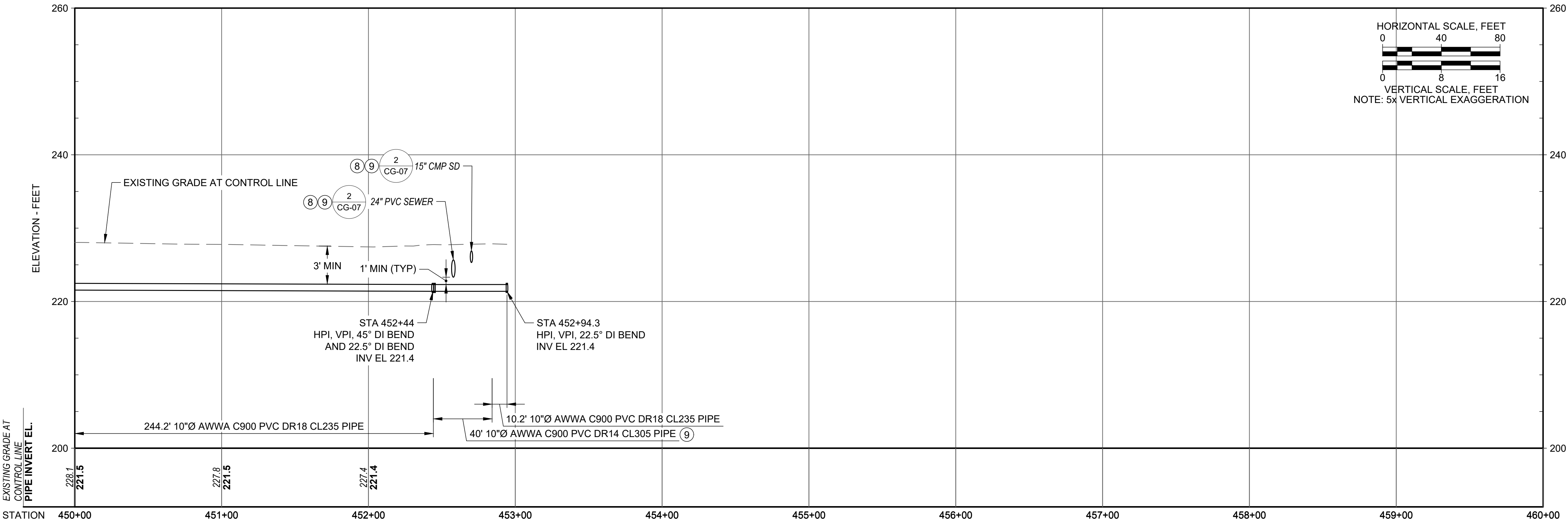


<p>Attention:</p> <p>If this scale bar does not measure 1" then drawing is not original scale.</p>		Designed: E. CERNA ALVAREZ	<p>GEI CONSULTANTS, INC. 2868 PROSPECT PARK DRIVE SUITE 400 RANCHO CORDOVA, CA 95670 (916)631-4500</p>	<p>CITY OF ORLAND 815 FOURTH ST. ORLAND, CA 95963</p>	<p>ORLAND EMERGENCY GROUNDWATER RESOURCE PROJECT PHASE 2A 815 FOURTH STREET ORLAND, CA</p>					<p>SHEET NAME</p> <p>COUNTY ROAD 20 LATERAL PLAN & PROF STA 430+00 TO 440+00</p>	<p>DWG. NO.</p> <p>CA04-04</p> <p>SHEET NO.</p> <p>32 OF 56</p>
		Drawn: I. CRUZ									
		Checked: M. MARTIN									
		Approved: S. GALA									
		P.E. No: C89239									
GEI Project: 1408520											

COUNTY ROAD 20



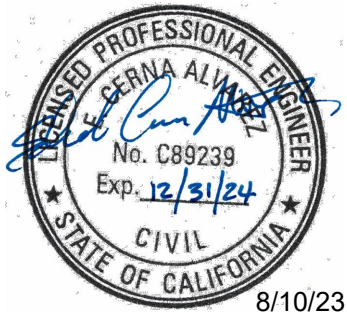
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 - ALL FITTINGS AND PIPE JOINTS SHALL BE AT LEAST 10' AWAY (MEASURED HORIZONTALLY) FROM EXISTING STORM DRAIN AND SEWER UTILITIES.
 - PIPE JOINT RESTRAINTS SHALL BE INSTALLED AT THE NEAREST JOINTS LOCATED UP-STATION AND DOWN-STATION OF THE UTILITY CROSSING.
 - THE JOINT BETWEEN TWO 20' DR14 CL305 PVC PIPE STICKS SHALL BE CENTERED IN BETWEEN THE EXISTING 24" PVC SEWER AND 15" CMP SD UTILITIES TO ENSURE THE MAX POSSIBLE DISTANCE BETWEEN THE JOINT AND THE EXISTING UTILITIES.



ISSUED FOR BID



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P.E. No: C89239
GEI Project: 1408520



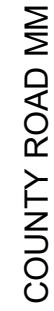
ORLAND EMERGENCY
GROUNDWATER
RESOURCE PROJECT
PHASE 2A
815 FOURTH STREET
ORLAND, CA

0			
NO	DATE	ISSUE/REVISION	APP

SHEET NAME
**COUNTY ROAD 20
LATERAL PLAN & PROF
STA 450+00 TO 452+94.3**

DWG. NO.
CA04-06

SHEET NO.
34 OF 56



- ELEVATION - FEET



8/10/23

GEI Consultants
GEI CONSULTANTS, INC.
2868 PROSPECT PARK DRIVE
SUITE 400
RANCHO CORDOVA, CA 95670
(916)631-4500



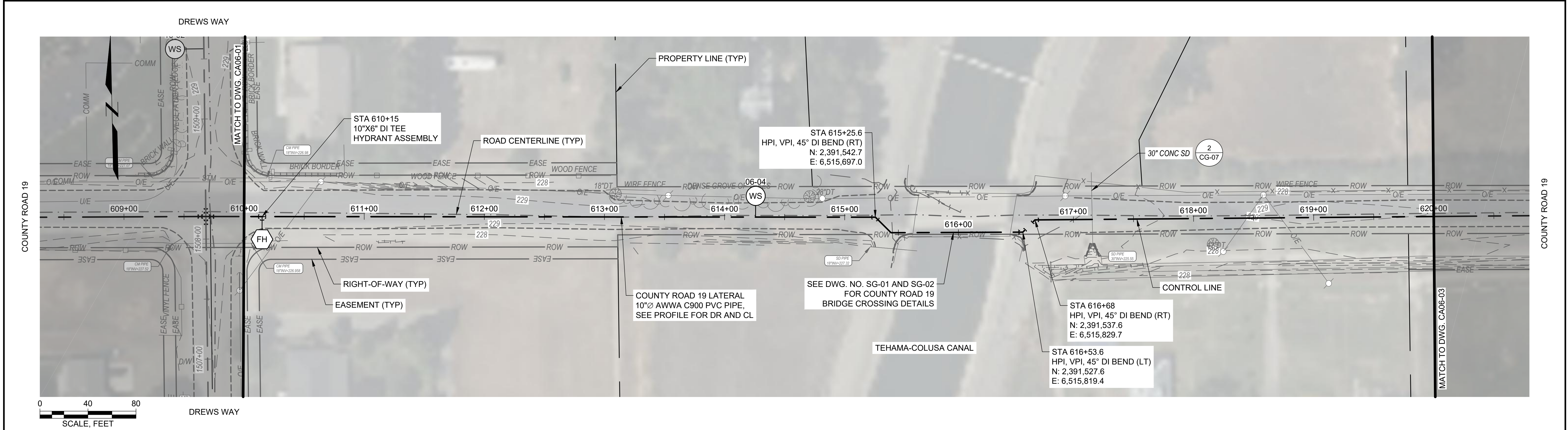
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NO	DATE	ISSUE/REVISION	APP

DWG. NO.

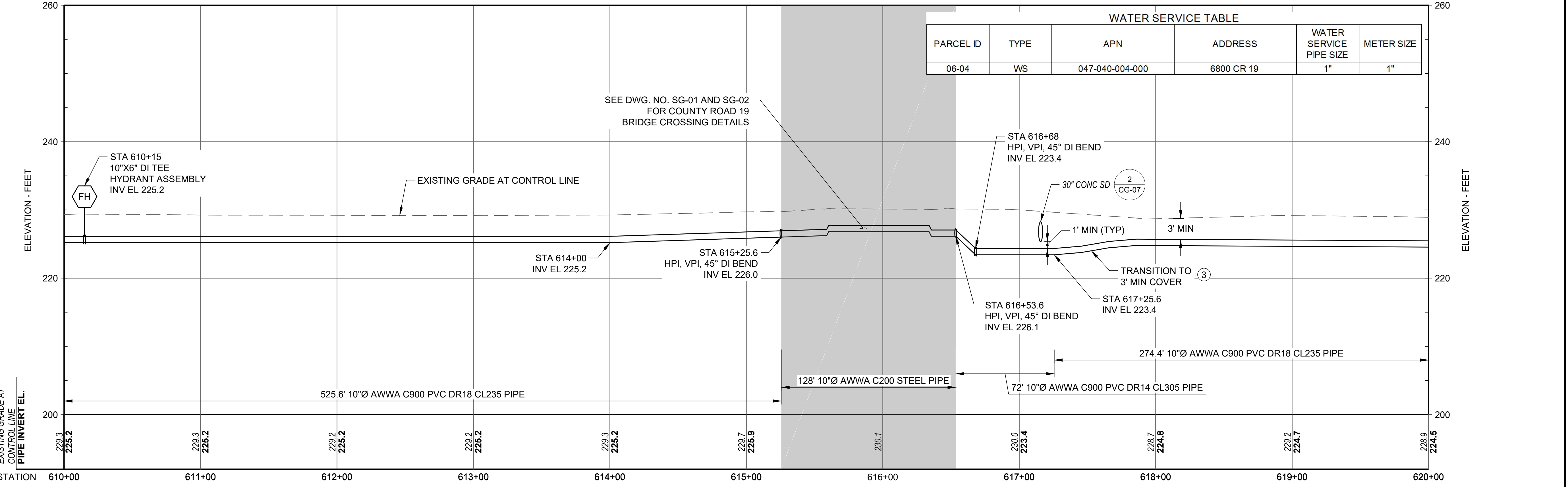
CA05-01

SHEET NO.

35 OF 56



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HORIZONTAL SCALE, FEET

0 40 80

VERTICAL SCALE, FEET

0 8 16

NOTE: 5x VERTICAL EXAGGERATION

Attention:

0 1"

If this scale bar does not measure 1" then drawing is not original scale.

DESIGNED PROFESSIONAL ENGINEER

No. C89239

Exp. 12/31/24

CIVIL

STATE OF CALIFORNIA

8/10/23

Designed: E. CERNA ALVAREZ

Drawn: I. CRUZ

Checked: M. MARTIN

Approved: S. GALA

P.E. No: C89239

GEI Project: 1408520

GEI Consultants

2868 PROSPECT PARK DRIVE

SUITE 400

RANCHO CORDOVA, CA 95670

(916)631-4500

CITY OF ORLAND

815 FOURTH ST.

ORLAND, CA 95963

ORLAND EMERGENCY GROUNDWATER RESOURCE PROJECT

PHASE 2A

815 FOURTH STREET

ORLAND, CA

NO	DATE	ISSUE/REVISION	APP
0			

SHEET NAME

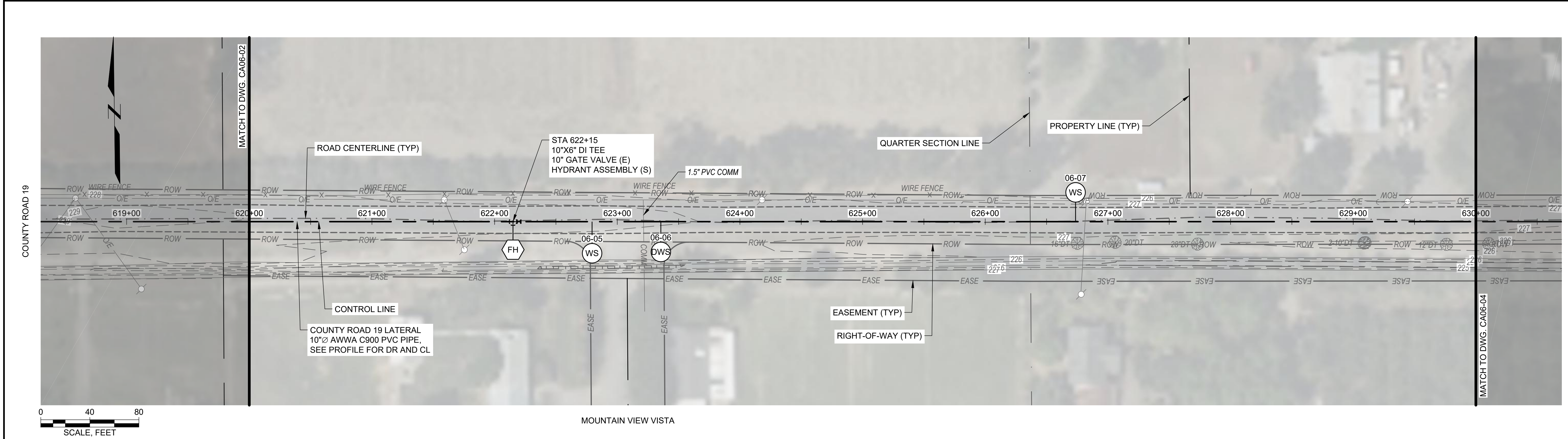
COUNTY ROAD 19 LATERAL PLAN & PROF STA 610+00 TO 620+00

DWG. NO.

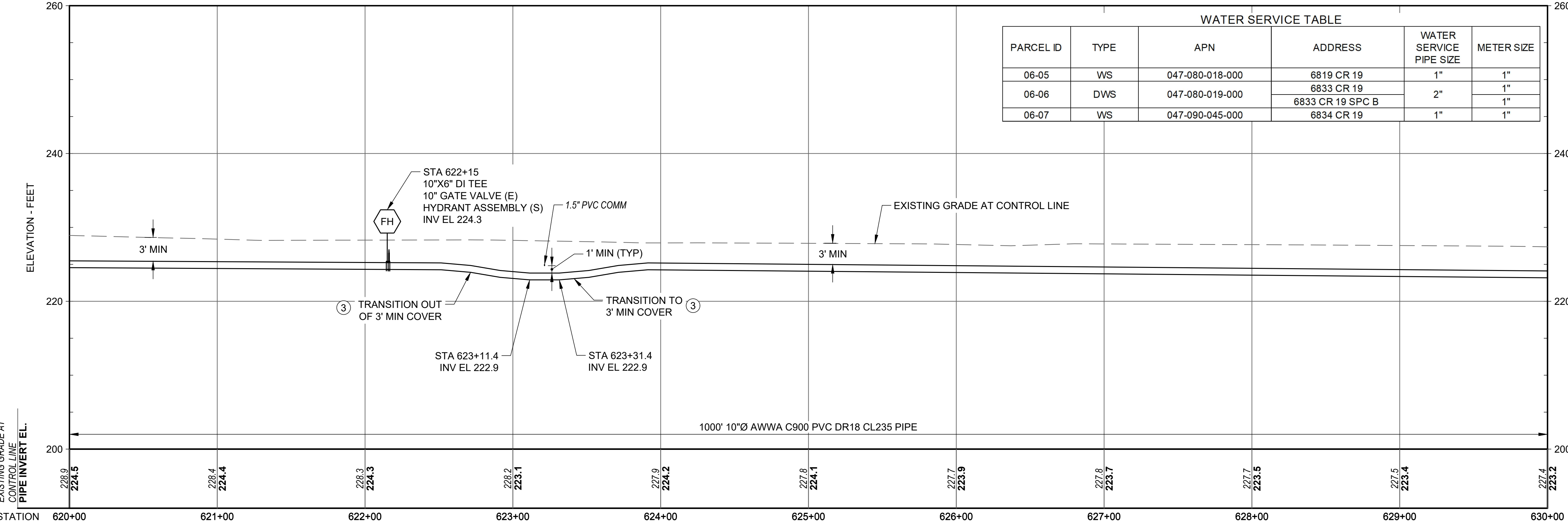
CA06-02

SHEET NO.

38 OF 56



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0 40 80

VERTICAL SCALE, FEET

0 8 16

NOTE: 5x VERTICAL EXAGGERATION

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No. C89239

Exp. 12/31/24

CIVIL

STATE OF CALIFORNIA

8/10/23

Designed: E. CERNA ALVAREZ

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GEI Project: 1408520

GEI Consultants

2868 PROSPECT PARK DRIVE SUITE 400

RANCHO CORDOVA, CA 95670

(916)631-4500

CITY OF ORLAND

815 FOURTH ST.

ORLAND, CA 95963

ORLAND EMERGENCY GROUNDWATER RESOURCE PROJECT

PHASE 2A

815 FOURTH STREET

ORLAND, CA

NO	DATE	ISSUE/REVISION	APP
0			

SHEET NAME

COUNTY ROAD 19 LATERAL PLAN & PROF STA 620+00 TO 630+00

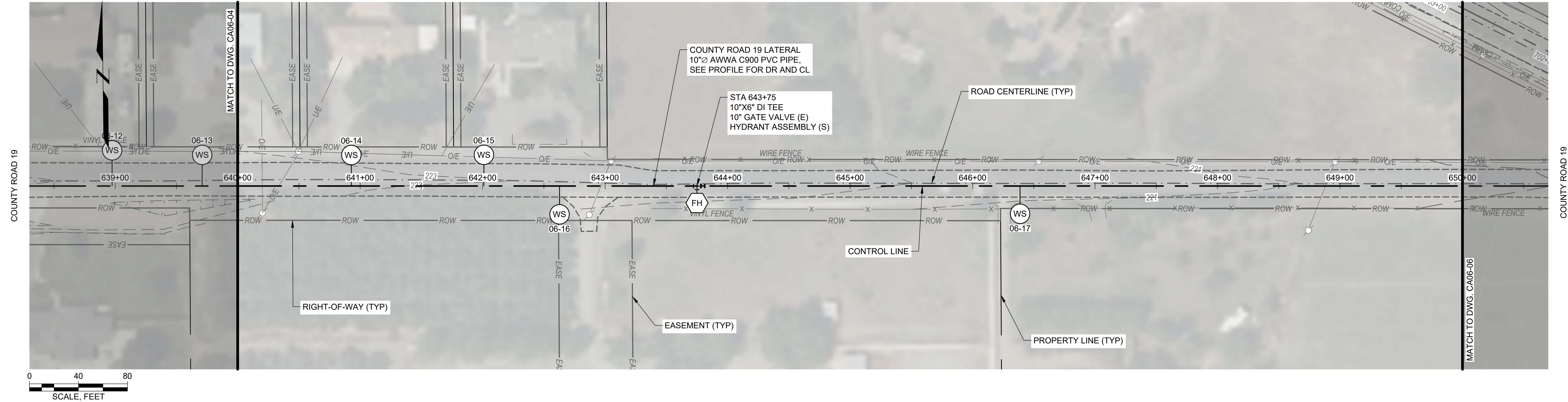
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CA06-03

SHEET NO.

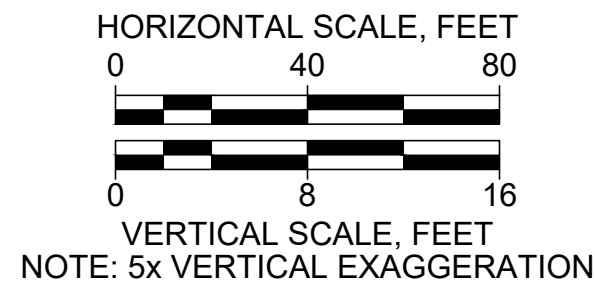
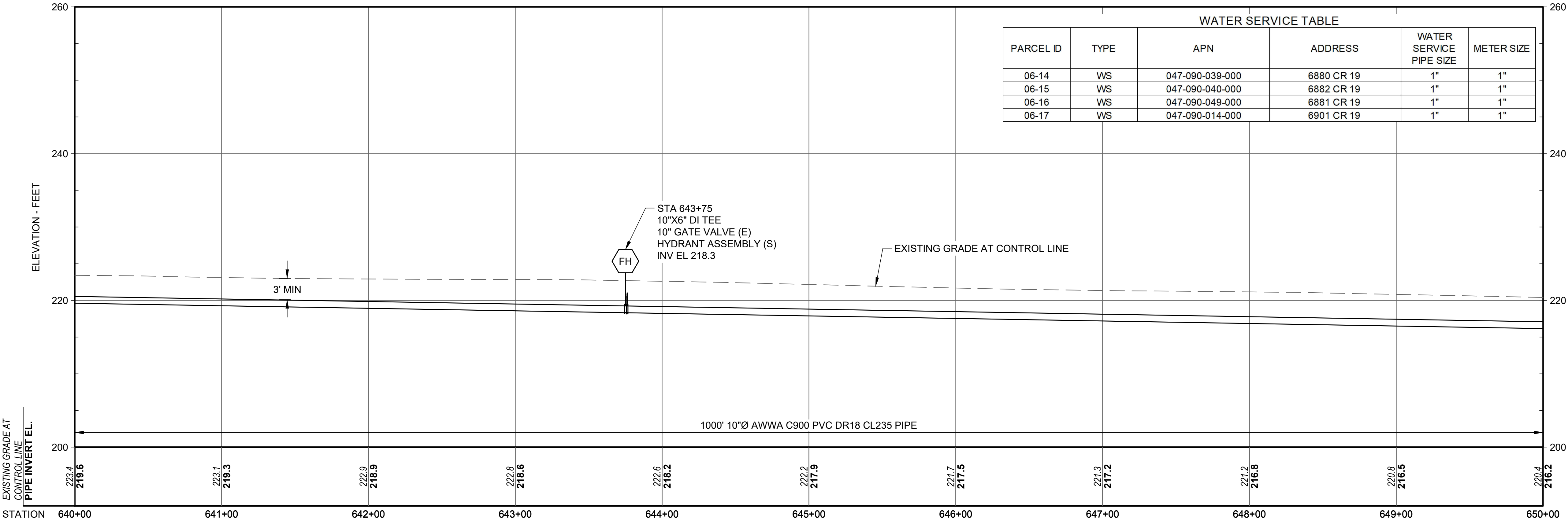
39 OF 56

CERNA ALVAREZ, EDUARDO - C:\LOCAL - CAD\Orland\9.0 CAD (LOCAL)\Design\Sheets\Phase 2\CA06_CR 19.dwg - 8/10/2023

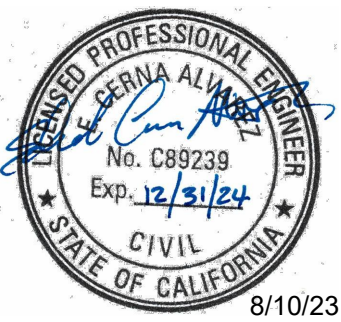


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GEI Project: 1408520



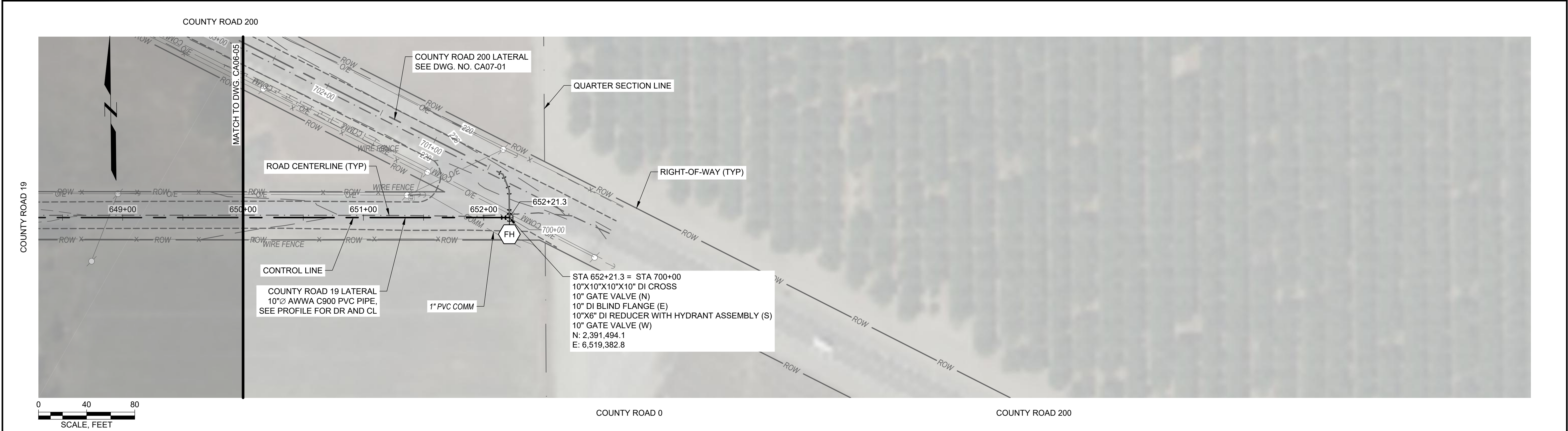
**ORLAND EMERGENCY
GROUNDWATER
RESOURCE PROJECT
PHASE 2A**
815 FOURTH STREET
ORLAND, CA

0			
NO	DATE	ISSUE/REVISION	APP

SHEET NAME
**COUNTY ROAD 19
LATERAL PLAN & PROF
STA 640+00 TO 650+00**

DWG. NO.
CA06-05
SHEET NO.
41 OF 56

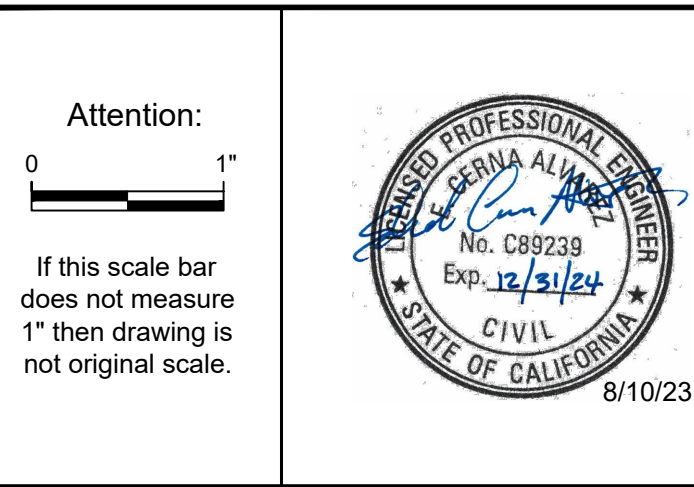
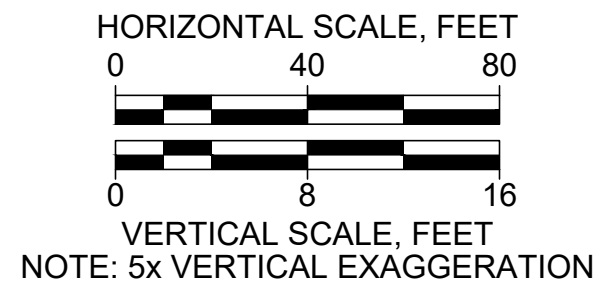
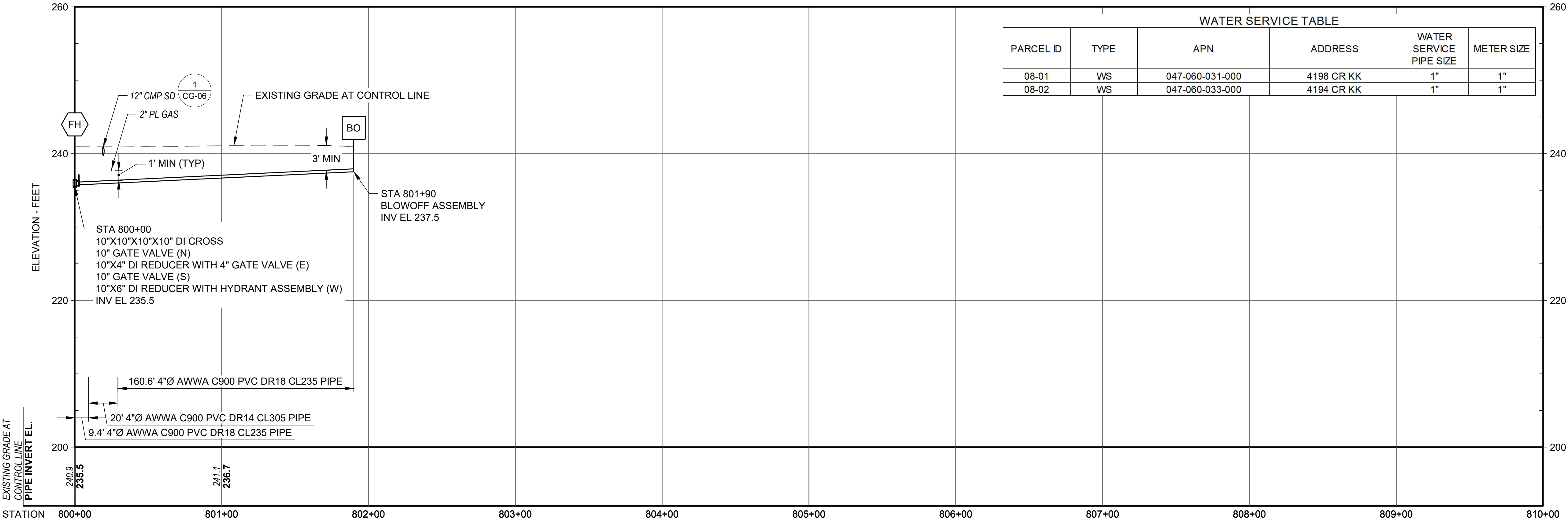
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Approved: S. GALA

P.E. No: C89239

GEI Project: 1408520



ORLAND EMERGENCY
GROUNDWATER
RESOURCE PROJECT
PHASE 2A

815 FOURTH STREET
ORLAND, CA

0			
NO	DATE	ISSUE/REVISION	APP

SHEET NAME

PRIVATE ST (CR KK)
LATERAL PLAN & PROF
STA 800+00 TO 801+90

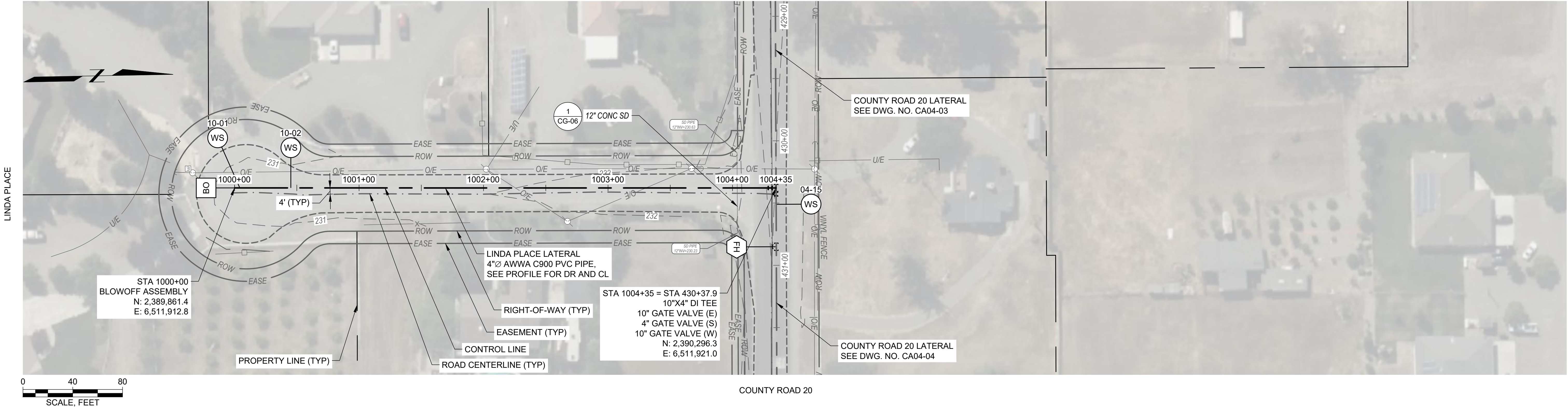
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CA08-01

SHEET NO.

47 OF 56

COUNTY ROAD 20

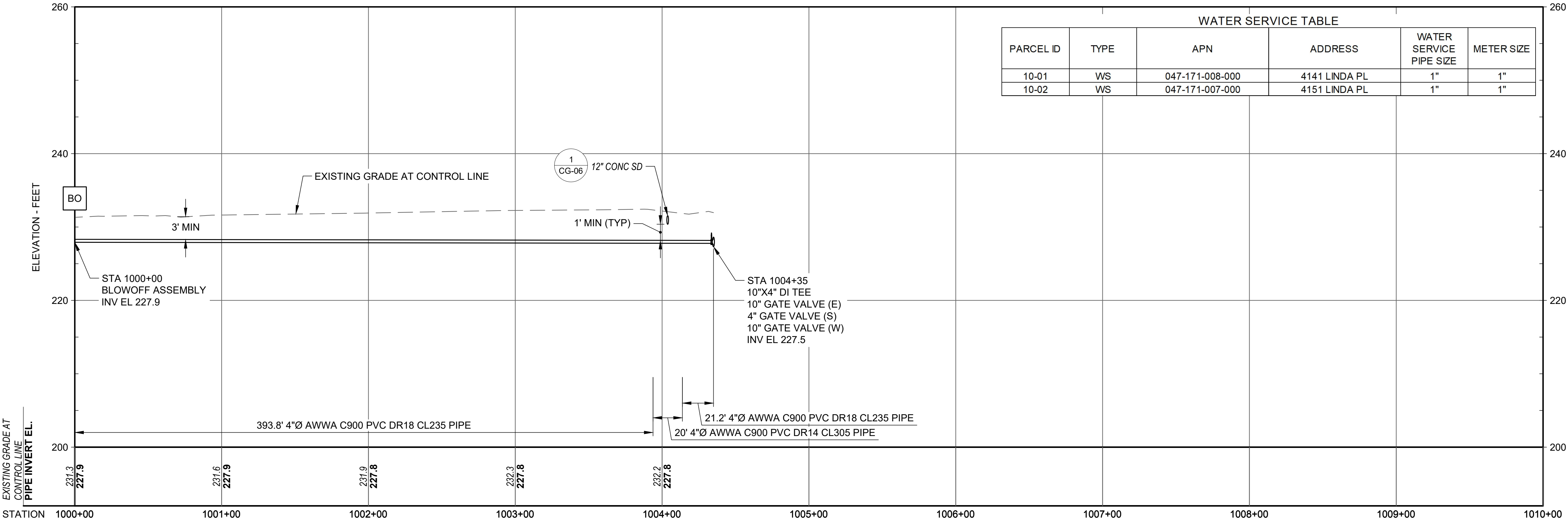


COUNTY ROAD 20

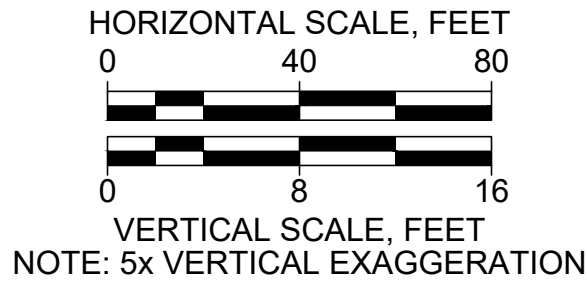
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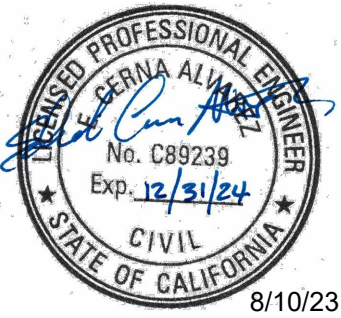
WATER SERVICE TABLE					
PARCEL ID	TYPE	APN	ADDRESS	WATER SERVICE PIPE SIZE	METER SIZE
10-01	WS	047-171-008-000	4141 LINDA PL	1"	1"
10-02	WS	047-171-007-000	4151 LINDA PL	1"	1"



ISSUED FOR BID



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0 1"
If this scale bar does not measure 1" then drawing is not original scale.



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Checked: M. MARTIN
Approved: S. GALA
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GEI Project: 1408520



ORLAND EMERGENCY
GROUNDWATER
RESOURCE PROJECT
PHASE 2A
815 FOURTH STREET
ORLAND, CA

NO	DATE	ISSUE/REVISION	APP
0			

SHEET NAME
**LINDA PLACE LATERAL
PLAN & PROF STA
1000+00 TO 1004+35**

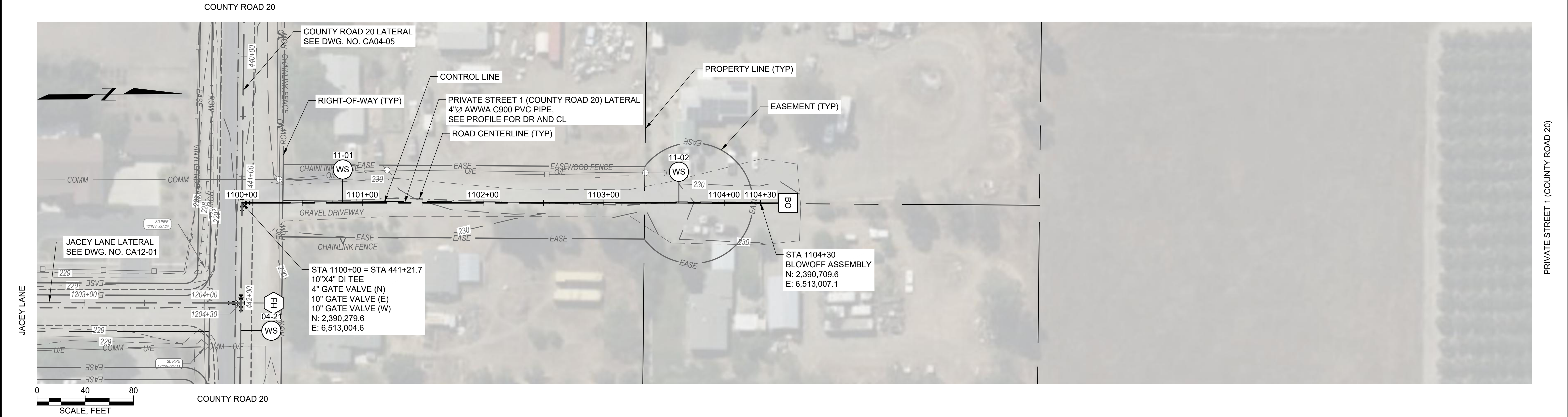
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CA10-01

SHEET NO.

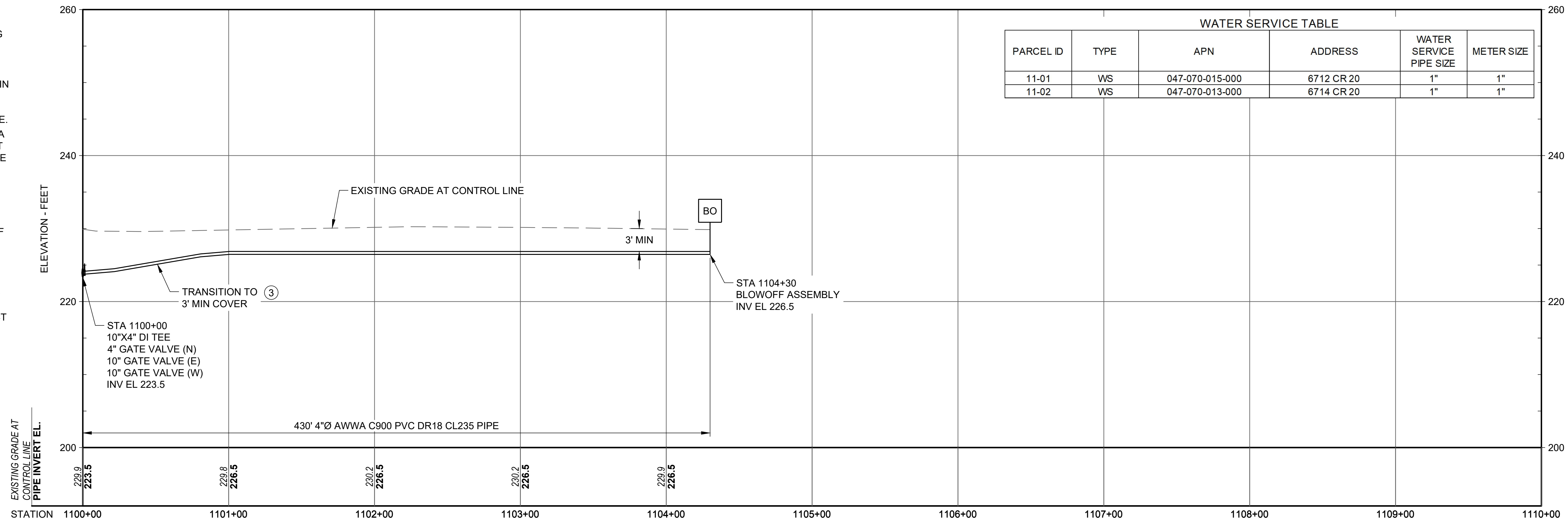
49 OF 56

CERNA ALVAREZ, EDUARDO - C:\LOCAL - CAD\Orland\9.0 CAD (LOCAL)\Design\Sheets\Phase 2\CA11-01.dwg - 8/10/2023

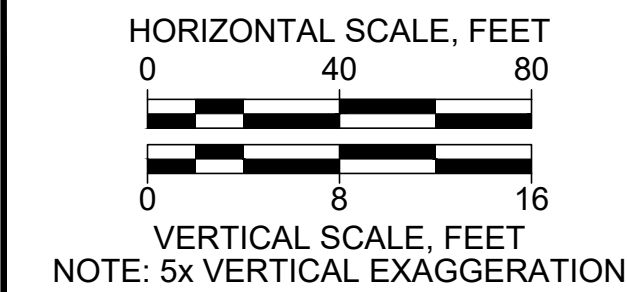


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WATER SERVICE TABLE					
PARCEL ID	TYPE	APN	ADDRESS	WATER SERVICE PIPE SIZE	METER SIZE
11-01	WS	047-070-015-000	6712 CR 20	1"	1"
11-02	WS	047-070-013-000	6714 CR 20	1"	1"



Attention:

0 1"

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DESIGNED PROFESSIONAL ENGINEER

No. C89239

Exp. 12/31/24

CIVIL

STATE OF CALIFORNIA

8/10/23

Designed: E. CERNA ALVAREZ

Drawn: I. CRUZ

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Approved: S. GALA

P.E. No: C89239

GEI Project: 1408520

GEI Consultants

2868 PROSPECT PARK DRIVE SUITE 400 RANCHO CORDOVA, CA 95670 (916)631-4500

CITY OF ORLAND

815 FOURTH ST. ORLAND, CA 95963

ORLAND EMERGENCY GROUNDWATER RESOURCE PROJECT

PHASE 2A

815 FOURTH STREET ORLAND, CA

0	DATE	ISSUE/REVISION	APP
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SHEET NAME

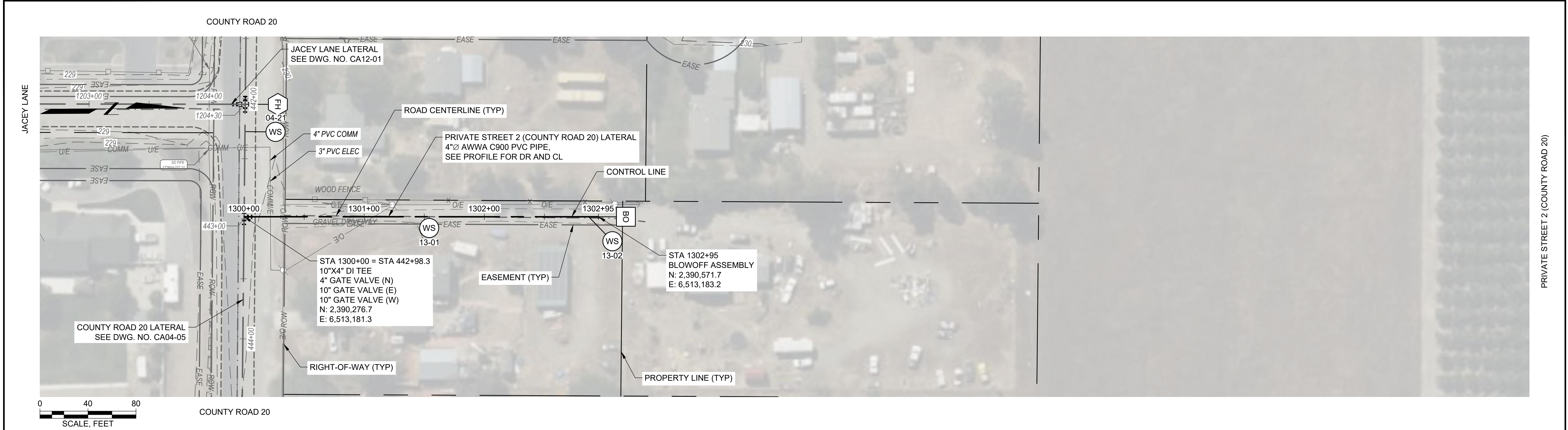
PRIVATE ST 1 (CR 20) LATERAL PLAN & PROF STA 1100+00 TO 1104+30

DWG. NO.

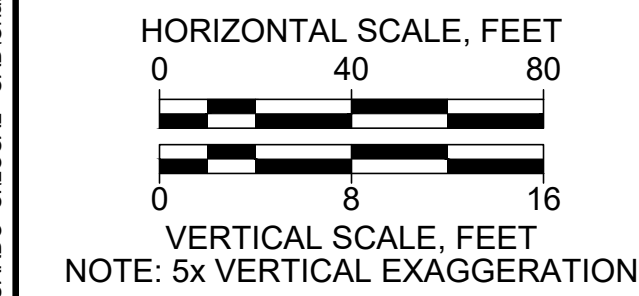
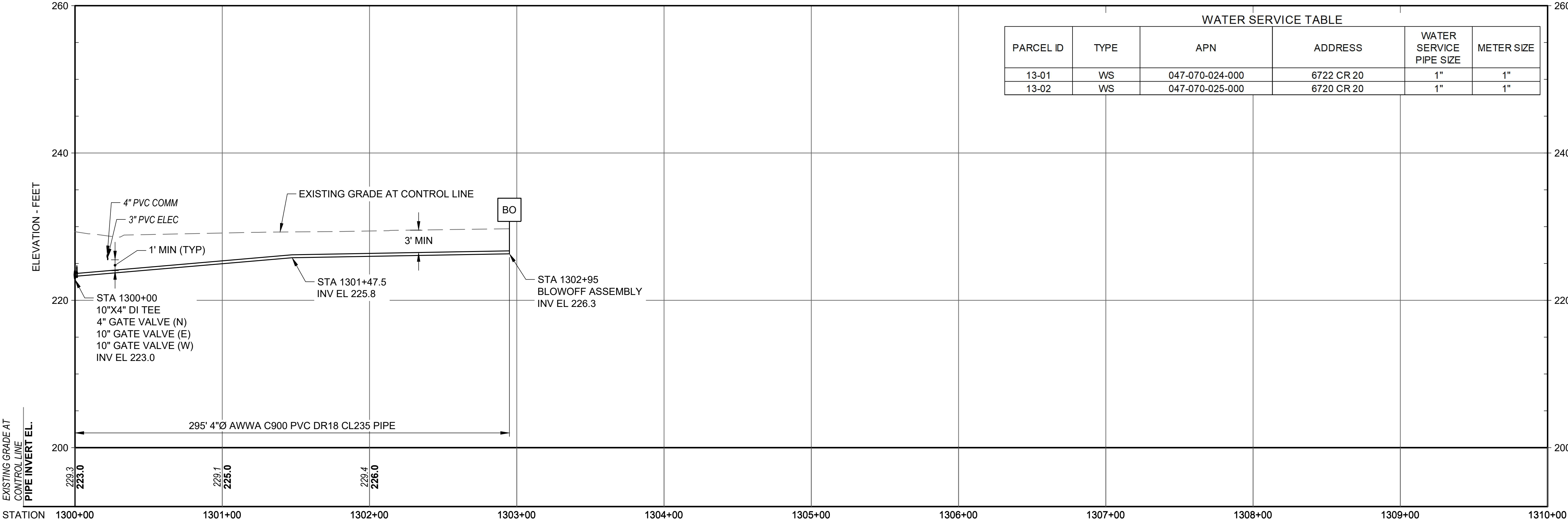
CA11-01

SHEET NO.

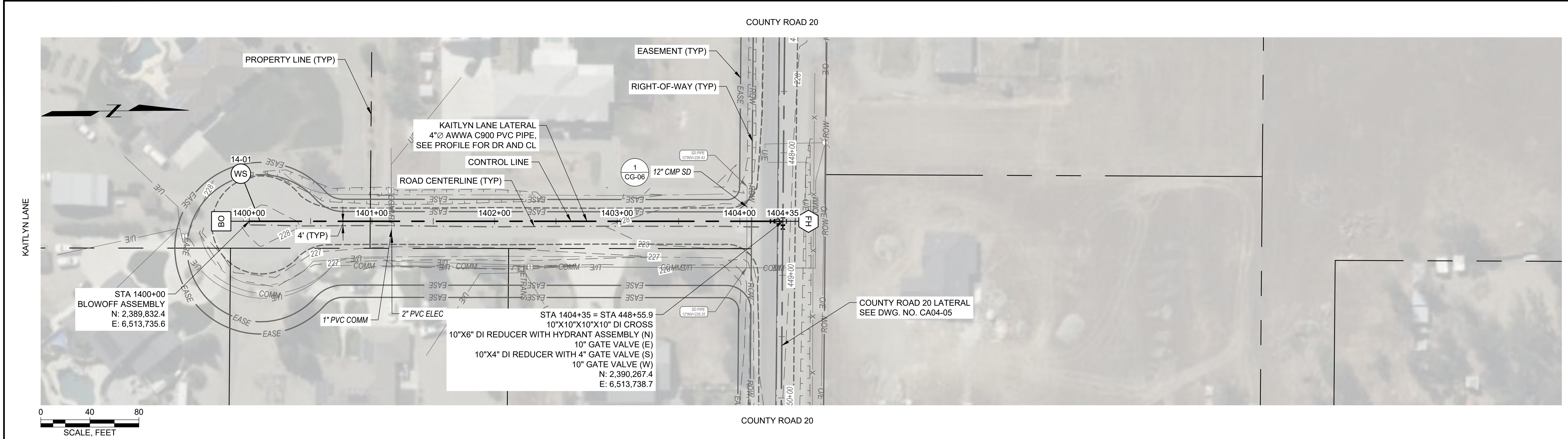
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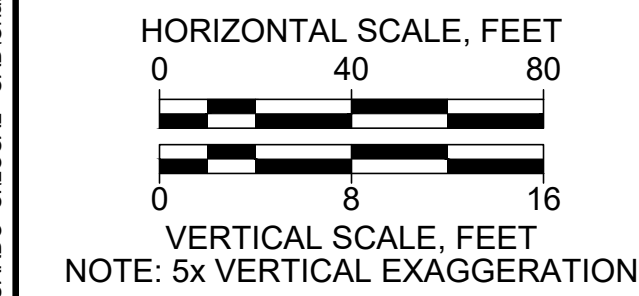
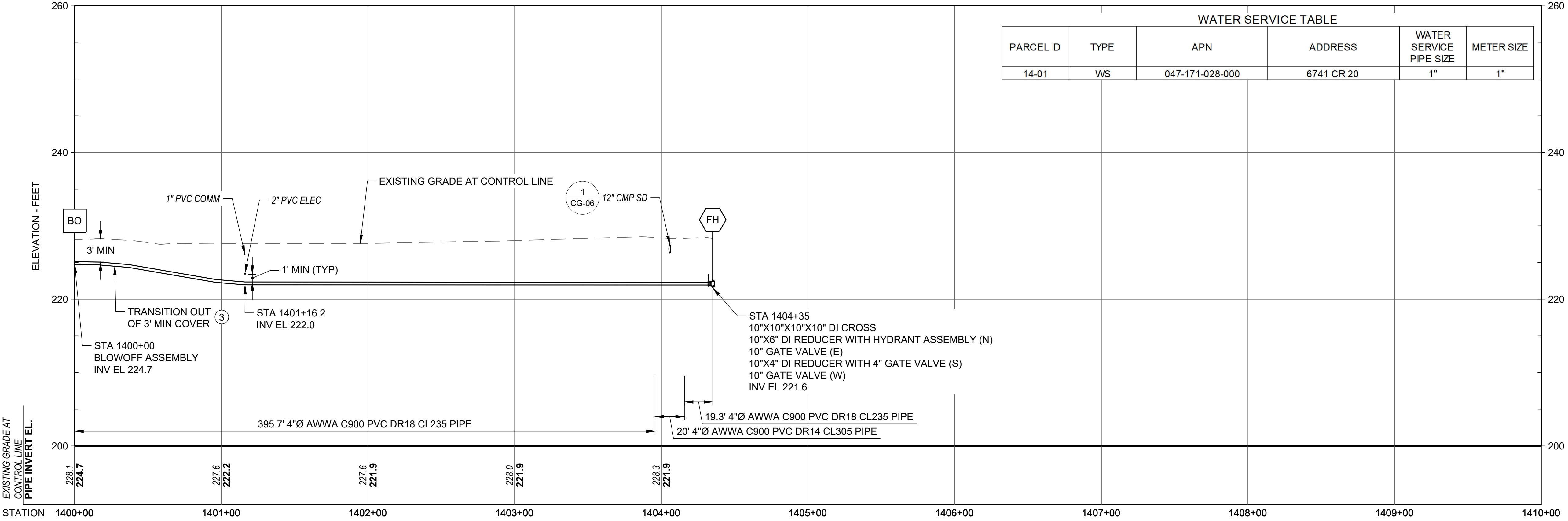
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 - CONTRACTOR SHALL MAINTAIN 3' MIN HORIZONTAL AND 1' MIN VERTICAL CLEARANCE BETWEEN EXISTING UTILITIES AND NEW WATER PIPELINE.
 - CONTRACTOR SHALL NOT EXCEED A MAX OF 1° OF JOINT DEFLECTION AT EACH PIPE JOINT TO ACCOMMODATE MINOR VERTICAL AND HORIZONTAL CHANGES IN ELEVATION AND ALIGNMENT.
 - CONTRACTOR SHALL MAINTAIN A DISTANCE OF 4' FROM CENTERLINE OF PAVED ROAD TO CENTERLINE OF NEW WATER PIPELINE UNLESS SHOWN OTHERWISE.
 - FIRE HYDRANT LOCATIONS ARE SHOWN AS A SCHEMATIC. FINAL LOCATIONS SHALL BE AS DIRECTED BY ORLAND FIRE DEPARTMENT/ ORLAND FIRE PROTECTION DISTRICT IN COORDINATION WITH CITY OF ORLAND REPRESENTATIVE.
 - WATER SERVICE LOCATIONS ARE SHOWN AS A SCHEMATIC. FINAL LOCATIONS SHALL BE AS DIRECTED BY CITY OF ORLAND REPRESENTATIVE.



Attention: 0 1" If this scale bar does not measure 1" then drawing is not original scale.	 8/10/23	Designed: E. CERNA ALVAREZ Drawn: I. CRUZ Checked: M. MARTIN Approved: S. GALA P.E. No: C89239 GEI Project: 1408520	 GEI Consultants 2868 PROSPECT PARK DRIVE SUITE 400 RANCHO CORDOVA, CA 95670 (916)631-4500	 CITY OF ORLAND 815 FOURTH ST. ORLAND, CA 95963	ORLAND EMERGENCY GROUNDWATER RESOURCE PROJECT PHASE 2A 815 FOURTH STREET ORLAND, CA	<table><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td>0</td><td></td><td></td><td></td></tr><tr><td>NO</td><td>DATE</td><td>ISSUE/REVISION</td><td>APP</td></tr></table>																													0				NO	DATE	ISSUE/REVISION	APP	SHEET NAME PRIVATE ST 2 (CR 20) LATERAL PLAN & PROF STA 1300+00 TO 1302+95	DWG. NO. CA13-01 SHEET NO. 52 OF 56
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DESIGNED PROFESSIONAL ENGINEER

No. C89239

Exp. 12/31/24

CIVIL

STATE OF CALIFORNIA

8/10/23

Designed: E. CERNA ALVAREZ

Drawn: I. CRUZ

Checked: M. MARTIN

Approved: S. GALA

P.E. No: C89239

GEI Project: 1408520

GEI Consultants

2868 PROSPECT PARK DRIVE SUITE 400 RANCHO CORDOVA, CA 95670 (916)631-4500

CITY OF ORLAND

815 FOURTH ST. ORLAND, CA 95963

ORLAND EMERGENCY GROUNDWATER RESOURCE PROJECT

PHASE 2A

815 FOURTH STREET ORLAND, CA

NO	DATE	ISSUE/REVISION	APP
0			

SHEET NAME

KAITLYN LANE LATERAL
PLAN & PROF STA
1400+00 TO 1404+35

DWG. NO.

CA14-01

SHEET NO.

53 OF 56



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GEI Consultants
GEI CONSULTANTS, INC.
2868 PROSPECT PARK DRIVE
SUITE 400
RANCHO CORDOVA, CA 95670
(916)631-4500

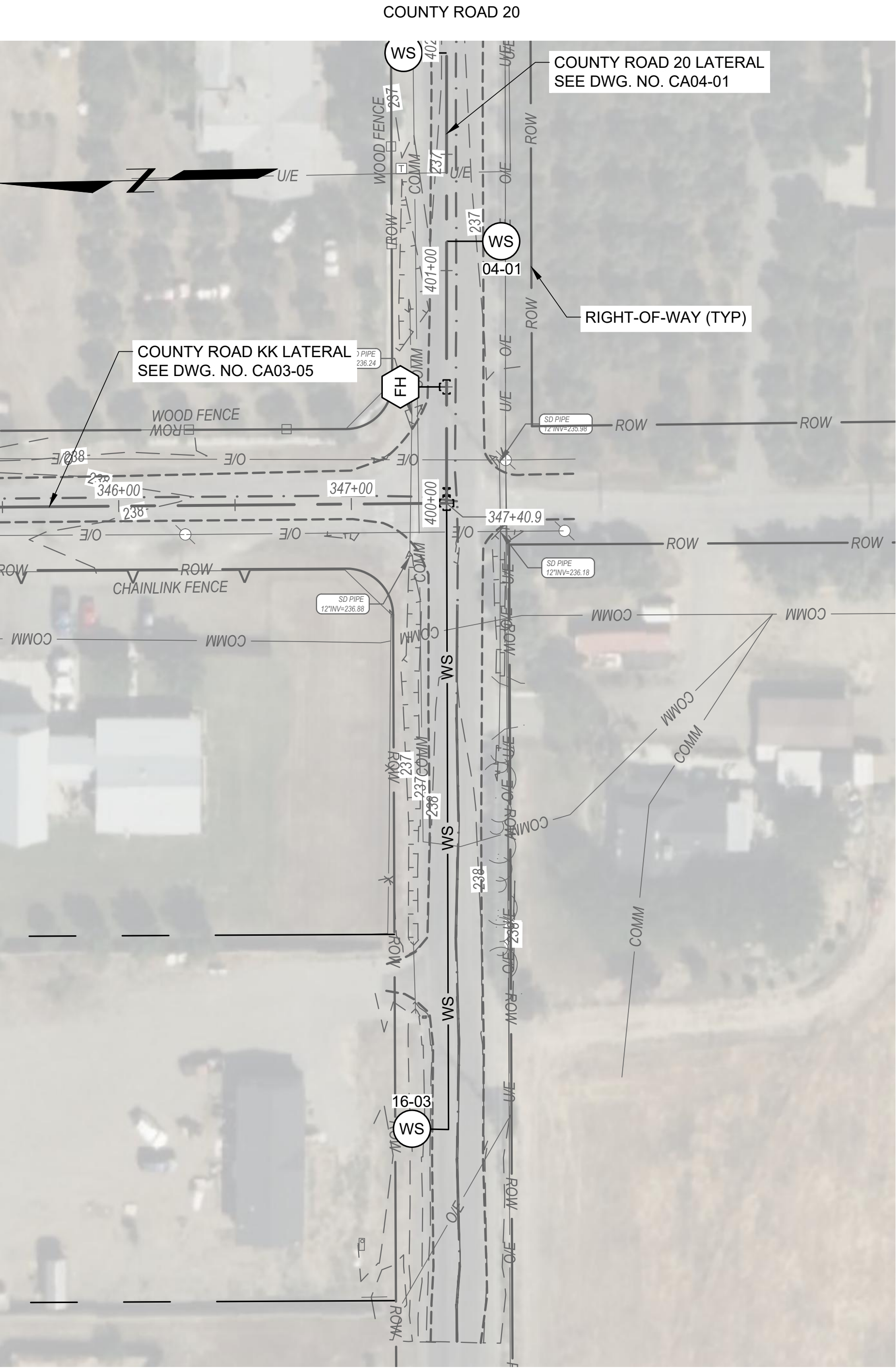


**ORLAND EMERGENCY
GROUNDWATER
RESOURCE PROJECT
PHASE 2A**
815 FOURTH STREET
ORLAND, CA

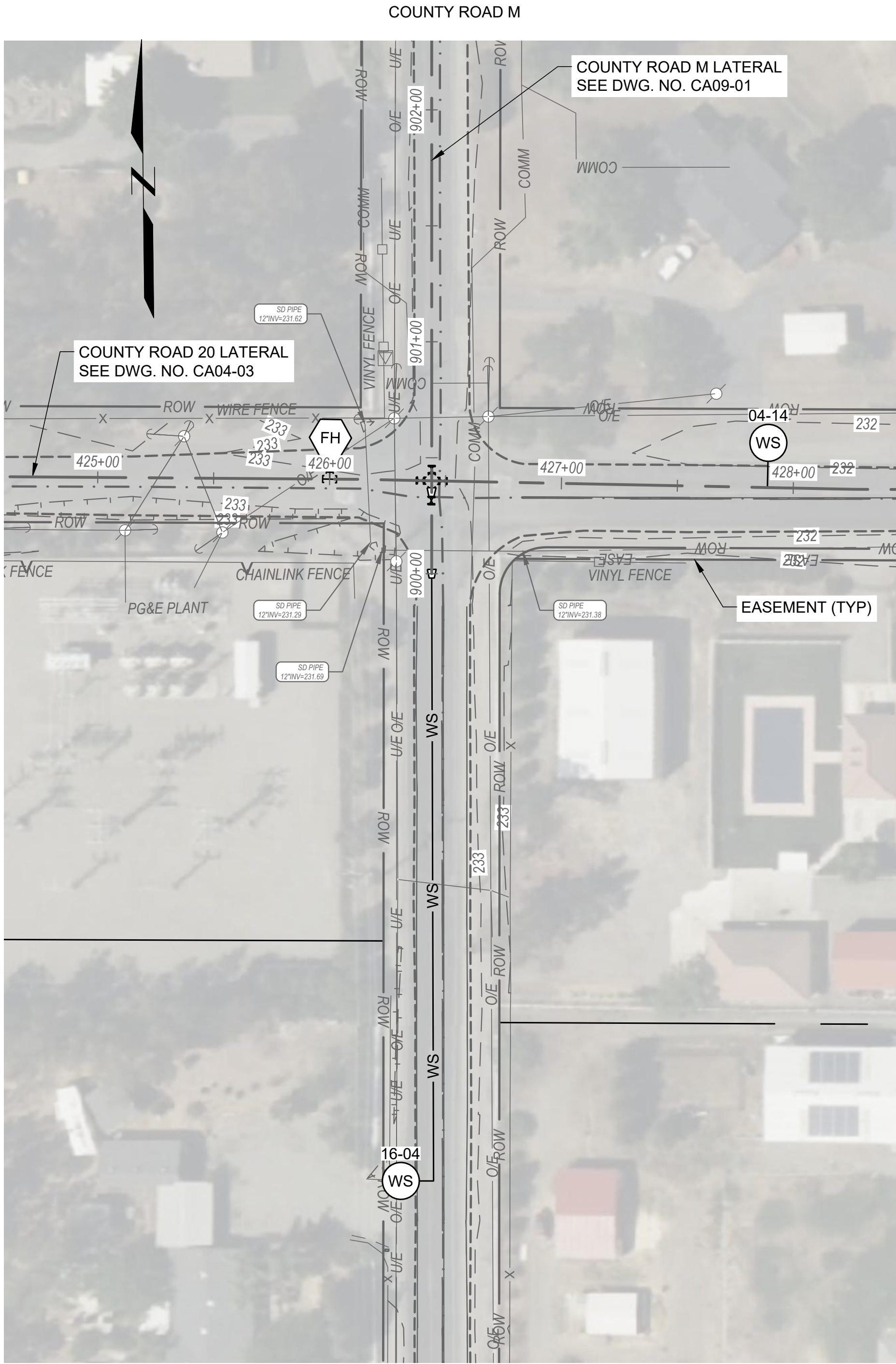
				<p>SHEET NAME</p> <p>DREWS WAY LATERAL PLAN & PROF STA 1510+00 TO 1514+71.7</p>	<p>DWG. NO.</p> <p>CA15-02</p> <p>SHEET NO.</p> <p>55 OF 56</p>
0					
NO	DATE	ISSUE/REVISION	APP		



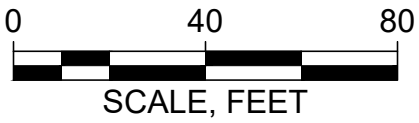
WATER SERVICE 16-01 AND 16-02
SCALE: 1" = 40'



WATER SERVICE 16-03
SCALE: 1" = 40'



WATER SERVICE 16-04
SCALE: 1" = 40'



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Professional Engineer Seal:
E. Cerna Alvarez
No. C89239
Exp. 12/31/24
CIVIL
STATE OF CALIFORNIA
8/10/23

Designed:	E. CERNA ALVAREZ
Drawn:	I. CRUZ
Checked:	M. MARTIN
Approved:	S. GALA
P.E. No:	C89239
GEI Project:	1408520



**ORLAND EMERGENCY
GROUNDWATER
RESOURCE PROJECT
PHASE 2A**
815 FOURTH STREET
ORLAND, CA

WATER SERVICE TABLE					
PARCEL ID	TYPE	APN	ADDRESS	WATER SERVICE PIPE SIZE	METER SIZE
16-01	WS	046-260-029-000	304 YUBA ST	2"	2"
16-02	WS	046-260-041-000	307 YUBA ST	2"	2"
16-03	WS	047-050-036-000	6578 CR 20	2"	2"
16-04	WS	047-160-030-000	4155 CR M	2"	2"

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SHEET NAME	DWG. NO.
WATER SERVICES	CA16-01
	SHEET NO.
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