

UNAUTHORIZED CHANGES & USES: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

Construction contractor agrees that in accordance with generally accepted construction practices, construction contractor will be required to assume sole and complete responsibility for job site conditions during the course of construction of the project, including safety of all persons and property; that this requirement shall be made to apply continuously and not be limited to normal working hours, and construction contractor further agrees to defend, indemnify and hold design professional harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting liability arising from the sole negligence of design professional.

CITY OF EAST PALO ALTO

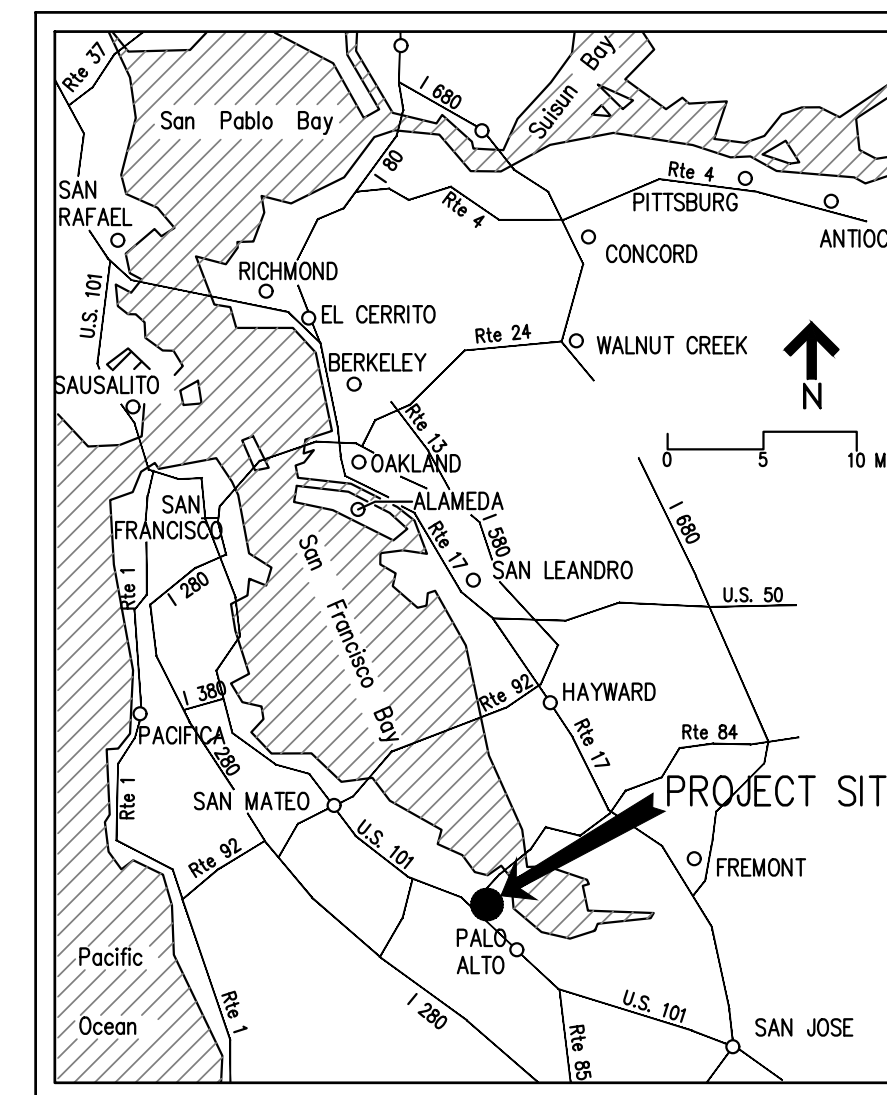
UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT BID SET

CONSTRUCTION COMMENTS

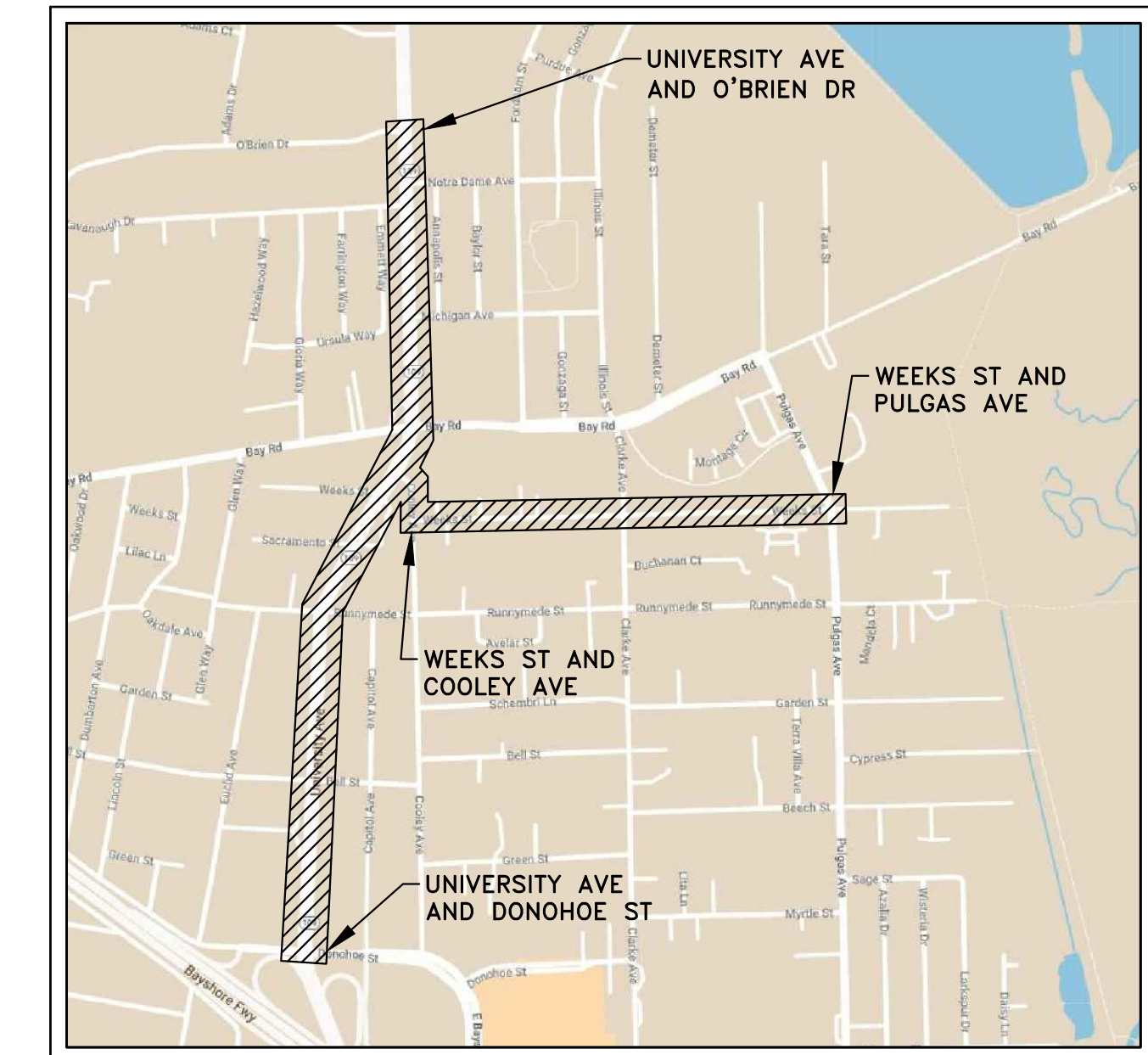
- CONTACT USA AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.
- EARTHWORK ACTIVITIES AND ASSOCIATED NOISE SHALL BE LIMITED TO WEEK DAYS BETWEEN THE HOURS OF 8:00 AM TO 5:00 PM. NO EARTHWORK ACTIVITIES ARE TO OCCUR ON SATURDAYS AND SUNDAYS WITHOUT SPECIAL PERMISSION FROM THE CITY ENGINEER.
- CONSTRUCTION TRAFFIC FOR DELIVERY OF MATERIALS AND LANE CLOSURES SHALL OCCUR AFTER 9:00 AM AND BEFORE 3:30 PM, EXCEPT CONCRETE AND OTHER LARGE COMPONENTS WHICH HAVE TO BE COORDINATED IN A CONSTRUCTION PHASING PLAN. A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED FOR ALL WORK IN THE CITY RIGHT-OF-WAY WHERE TRAFFIC MAY BE IMPACTED.
- CONTRACTORS AND SUBCONTRACTORS SHALL BE PROPERLY TRAINED AND MADE AWARE OF THE STORM WATER POLLUTION PREVENTION PROGRAM MEASURES. FAILURE TO COMPLY WITH THE APPROVED BMPs COULD RESULT IN A FINE OF \$1,000 FOR FIRST VIOLATION, INCREASING WITH EACH SUBSEQUENT VIOLATION. (SEE CONSTRUCTION BEST MANAGEMENT PRACTICES ON DETAIL SHEET)
- ALL ACAD FILES WITH SURVEY CONTROL POINTS WILL BE PROVIDED TO THE CONTRACTOR.

SHEET INDEX

SHEET NUMBER	DESCRIPTION
G-01	COVER SHEET
G-02	GENERAL NOTES
U-01	PLAN & PROFILE - UNIVERSITY AVE STA 0+00 TO 4+00
U-02	PLAN & PROFILE - UNIVERSITY AVE STA 4+00 TO 8+00
U-03	PLAN & PROFILE - UNIVERSITY AVE STA 8+00 TO 12+00
U-04	PLAN & PROFILE - UNIVERSITY AVE STA 12+00 TO 16+00
U-05	PLAN & PROFILE - UNIVERSITY AVE STA 16+00 TO 20+00
U-06	PLAN & PROFILE - UNIVERSITY AVE STA 20+00 TO 24+00
U-07	PLAN & PROFILE - UNIVERSITY AVE STA 24+00 TO 28+00
U-08	PLAN & PROFILE - UNIVERSITY AVE STA 28+00 TO 32+00
U-08A	PLAN & PROFILE - RUNNYMEDE ST CROSS SECTION E-E
U-09	PLAN & PROFILE - UNIVERSITY AVE STA 32+00 TO 36+00
U-10	PLAN & PROFILE - UNIVERSITY AVE STA 36+00 TO 40+00
U-11	PLAN & PROFILE - UNIVERSITY AVE STA 40+00 TO 44+00
U-11A	PLAN & PROFILE - BELL ST CROSS SECTION F-F
U-12	PLAN & PROFILE - UNIVERSITY AVE STA 44+00 TO 48+00
U-13	PLAN & PROFILE - UNIVERSITY AVE STA 48+00 TO 52+50
U-14	PLAN & PROFILE - COOLEY AVE
W-01	PLAN & PROFILE - WEEKS ST STA 0+00 TO 4+50
W-02	PLAN & PROFILE - WEEKS ST STA 4+50 TO 9+00
W-03	PLAN & PROFILE - WEEKS ST STA 9+00 TO 12+50
W-04	PLAN & PROFILE - WEEKS ST STA 12+50 TO 16+50
W-05	PLAN & PROFILE - WEEKS ST STA 16+50 TO 20+00
W-06	PLAN & PROFILE - WEEKS ST STA 20+00 TO 24+00
W-07	PLAN & PROFILE - WEEKS ST STA 24+00 TO 26+34
D-01	DETAIL SHEET
D-02	DETAIL SHEET
D-03	DETAIL SHEET
D-04	DETAIL SHEET
D-05	DETAIL SHEET
D-06	DETAIL SHEET
D-07	DETAIL SHEET
D-08	CONSTRUCTION BEST MANAGEMENT PRACTICES



VICINITY LOCATION
NTS



LOCATION MAP
NTS

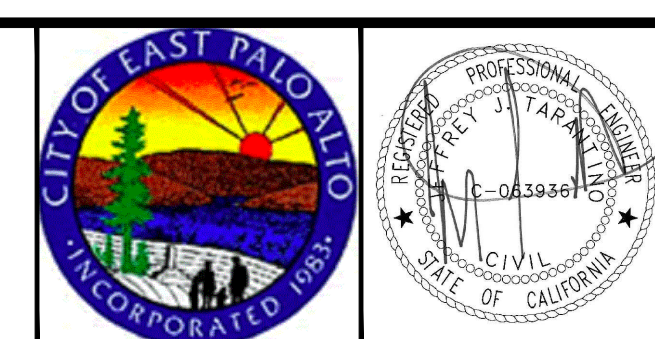
LEGEND

SS	EXISTING SANITARY SEWER	CV	EXISTING GAS VALVE	UV	UTILITY VAULT
SD	EXISTING STORM DRAIN	WV	EXISTING WATER VALVE	COM	TELECOMMUNICATIONS VAULT
TELE	EXISTING COMMUNICATIONS LINE	WM	EXISTING WATER METER	COM MH	TELECOMMUNICATIONS MANHOLE
FO	EXISTING FIBER OPTIC LINE	CO	EXISTING CLEAN OUT	TS	TRAFFIC SIGNAL
G	EXISTING GAS LINE	FH	EXISTING FIRE HYDRANT	TSB	TRAFFIC SIGNAL BOX
E	EXISTING UNDERGROUND ELECTRICAL LINE	S/D	EXISTING SEWER / STORM DRAIN MANHOLE	SL	STREET LIGHT
W	EXISTING WATER LINE	CB	EXISTING CATCH BASIN	ICB	IRRIGATION CONTROL BOX
—	PROPOSED WATER MAIN	EB	EXISTING ELECTRICAL PULL BOX	W	PROPOSED WATER VALVE
—	ROLLED CURB AND GUTTER	TS	TRAFFIC SIGN	R	PROPOSED REDUCER
—	CURB AND GUTTER	M	MONUMENT	FH	PROPOSED FIRE HYDRANT
		JUP	JOINT UTILITY POLE	BO	PROPOSED BLOW OFF
		DET	DETECTOR	[PROPOSED CONCRETE CAP
		E	ELECTRIC MANHOLE		
		G	GUY WIRE		
		A	ANODE		
		ELEC	ELECTRIC VAULT		

DATE:	7/21/23	4/14/23	90% SUBMITTAL (WEEKS ST)
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UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
CITY OF EAST PALO ALTO

COVER SHEET

SHEET	G-01
JOB NO.	221005

DRAWING NAME: Z:\Projects\221 City of East Palo Alto\005_12inch Transmission Watermain\AAA Latest\Cover Sheet.dwg
PLOT DATE: 07-21-23 PLOTTED BY: kyau

CONSTRUCTION NOTES

THE FOLLOWING CONTROL MEASURES FOR CONSTRUCTION ACTIVITIES SHALL BE ADHERED TO, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

- FOR ANY PROJECT THAT REQUIRES LESS THAN FIVE WORKERS AT THE JOBSITE AT ANY ONE TIME, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RESTRICTIONS AND REQUIREMENTS AS OUTLINED PER THE SAN MATEO COUNTY HEALTH OFFICER ORDER APPENDIX B-1: SMALL CONSTRUCTION PROJECT SAFETY PROTOCOL, DATED 4/29/20. THIS INCLUDES, BUT IS NOT LIMITED TO: POSTING THE REQUIRED NOTICES AND PLANS ON THE JOBSITE, ESTABLISHING A DAILY SCREENING PROTOCOL, SANITIZING THE JOBSITE AND EQUIPMENT DAILY, PROVIDING APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE) TO EMPLOYEES, IMPLEMENTING SOCIAL DISTANCING REQUIREMENTS, MAINTAINING A DAILY ATTENDANCE LOG, AND DESIGNATING A SITE-SPECIFIC COVID-19 SUPERVISOR OR SUPERVISORS. FOR MORE INFORMATION, SEE THE SAN MATEO COUNTY HEALTH OFFICER ORDER APPENDIX B-1.
- FOR ANY PROJECT THAT REQUIRES FIVE OR MORE WORKERS AT THE JOBSITE AT ANY ONE TIME, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RESTRICTIONS AND REQUIREMENTS AS OUTLINED PER THE SAN MATEO COUNTY HEALTH OFFICER ORDER APPENDIX B-2: LARGE CONSTRUCTION PROJECT SAFETY PROTOCOL, DATED 4/29/20. THIS INCLUDES, BUT IS NOT LIMITED TO: POSTING REQUIRED NOTICES AND PLANS ON THE JOBSITE, IMPLEMENTING REQUIRED SAFETY AND SANITIZATION PLANS, PROVIDING APPROPRIATE PPE TO EMPLOYEES, PROVIDING PPE TRAINING, IMPLEMENTING SOCIAL DISTANCING REQUIREMENTS, MAINTAINING ALL NECESSARY LOGS, AND ASSIGNING A COVID-19 SAFETY COMPLIANCE OFFICER (SCO) AND COVID-19 THIRD-PARTY JOBSITE SAFETY ACCOUNTABILITY SUPERVISOR (JSAS). FOR MORE INFORMATION, SEE THE SAN MATEO COUNTY HEALTH OFFICER ORDER APPENDIX B-2.
- USE CAUTION AND PROTECT EXISTING GAS, ELECTRICAL AND TELECOM LINES.
- LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND MINIMUM DEPTHS OF COVER HAVE BEEN ASSUMED. CONTRACTOR SHALL POTHOLE EXISTING UTILITIES AT ALL KNOWN CROSSINGS PER PLAN IN ACCORDANCE WITH UTILITY OWNER REQUIREMENTS TO VERIFY CLEARANCE AND BRING ANY CONFLICTS TO THE ATTENTION OF THE ENGINEER.
- CONTRACTOR SHALL NOTE ELECTRICAL AND GAS LINE CROSSING LOCATIONS AND PROXIMITY OF (E) ELECTRICAL AND GAS LINES TO (N) WATER MAIN LINE CONSTRUCTION. CONTRACTOR SHALL MAKE ALL NECESSARY NOTIFICATIONS TO (E) UTILITY LINES PER UTILITY OWNER REQUIREMENTS.
- TRENCH DEWATERING WILL LIKELY BE NEEDED DUE TO A RELATIVELY SHALLOW GROUNDWATER ELEVATION. WATER GENERATED DURING DEWATERING SHALL BE HANDLED AS OUTLINED IN THE SPECIFICATIONS.
- SOIL TYPES WILL VARY ALONG THE PROPOSED PIPELINE ALIGNMENT AND TEMPORARY EXCAVATIONS SHALL EITHER BE SHORED OR SLOPED BACK TO MEET CAL-OSHA TRENCH EXCAVATION REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ANY EXCESS MATERIALS FROM THE WORK SITE.
- EROSION CONTROL MEASURES SHALL BE INSTALLED AS NECESSARY TO PREVENT SEDIMENT RUNOFF TO PUBLIC ROADWAY DRAINAGE FACILITIES, ADJACENT PROPERTIES AND THE SAN FRANCISCO BAY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES ON OR OFF THE PROJECT SITE AS A RESULT OF LACK OF DUST CONTROL.
- DURING THE PROGRESS OF THE CONSTRUCTION WORK THE CONTRACTOR SHALL MAINTAIN THE PREMISES IN A NEAT AND CLEAN CONDITION, DISPOSING OF REFUSE IN A SATISFACTORY MANNER AS OFTEN AS DIRECTED OR AS MAY BE NECESSARY SO THAT THERE SHALL BE AT NO TIME ANY UNSIGHTLY ACCUMULATION OF RUBBISH AT THE JOB SITE.
- CONTRACTOR TO ADHERE TO ALL REQUIREMENTS OF THE SAN MATEO COUNTY HEALTH SERVICES AGENCY.
- STORAGE OF CONSTRUCTION MATERIALS AND EQUIPMENT WILL NOT BE ALLOWED IN OR UPON THE PUBLIC RIGHT-OF-WAY. ALL MATERIALS INTENDED FOR USE ON ANY PROJECT SHALL BE OFFLOADED DIRECTLY FROM DELIVERY VEHICLES AND PLACED AS REQUIRED DURING THE COURSE OF CONSTRUCTION. SHOULD THE PERMIT HOLDER OR SUB-CONTRACTORS WISH TO STOCKPILE MATERIALS NEAR THE WORK SITE, THEY SHALL MAKE ARRANGEMENTS IN ADVANCE FOR STORAGE WITH APPROVAL FROM THE CITY. ALL STORAGE SITES SHALL BE SECURE, INACCESSIBLE TO THE GENERAL PUBLIC AND KEPT FREE OF CONSTRUCTION SPOILS, DEBRIS AND TRASH AT ALL TIMES STORAGE SITES SHALL BE SUBJECT TO THE REVIEW AND APPROVAL OF THE CITY ENGINEER.
- CONTRACTOR SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE STATE CONSTRUCTION SAFETY ORDERS.
- THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG MEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY & TRAFFIC CONTROL.
- THE CONTRACTOR SHALL POST EMERGENCY TELEPHONE NUMBERS FOR POLICE, FIRE, AMBULANCE, AND THOSE AGENCIES RESPONSIBLE FOR MAINTENANCE OF UTILITIES IN THE VICINITY OF JOB SITE.
- THE CONTRACTOR SHALL IMMEDIATELY REPORT ANY SOIL OR WATER CONTAMINATION NOTICED DURING CONSTRUCTION TO THE CITY OF EAST PALO ALTO, THE SAN MATEO COUNTY DEPARTMENT OF HEALTH, AND THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE SITE OR SURROUNDING AREA DUE TO DUST OR EROSION, RESULTING FROM WORK DONE BY THE CONTRACTOR. CONTRACTOR SHALL PROVIDE A SEVEN (7) DAY PHONE NUMBER TO RECEIVE AND RESPOND TO DUST COMPLAINTS RESULTING FROM ALL CONSTRUCTION OPERATIONS AND SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE. ALL BUSINESSES AND RESIDENTS WITHIN 300' OF THE PROJECT SHALL BE NOTIFIED BY THE CONTRACTOR BY MAIL WITH INFORMATION AND COMPLAINT LINES TO BE CALLED.
- CONTRACTOR IS TO MAINTAIN ALL JOB SITE FACILITIES UNTIL ACCEPTED BY THE CITY.
- ALL EXCAVATION SPOILS SHALL BE PLACED DIRECTLY INTO TRUCKS AND DISPOSED OF AT AN APPROVED DUMPSITE.
- CONSTRUCTION HOURS IN THE CITY PUBLIC RIGHT-OF-WAY ARE LIMITED TO WEEKDAYS AND NON-CITY HOLIDAYS BETWEEN 8:00AM TO 5:00PM.
- CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY DAMAGED OR DISRUPTED STRIPING AND PAVEMENT MARKING IN-KIND.
- PETROMAT MAY BE FOUND IN THE AC. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND PROPER DISPOSAL.
- CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY DAMAGED OR DISRUPTED SIDEWALK, CURB AND GUTTER, CURB RAMP, AND DRIVEWAY.
- ALL CURB AND GUTTER REPLACED SHALL HAVE A 2 FOOT SAWCUT CONFORM, UNLESS OTHERWISE NOTED ON PLANS.
- CONTRACTOR SHALL SUPPLY AND MAINTAIN SANITARY FACILITIES FOR THE WORKERS AT THE CONSTRUCTION SITE.
- CONTRACTOR SHALL MAINTAIN AND KEEP ALL VEHICULAR AND PEDESTRIAN TRAFFIC ACCESS OPEN TO SURROUNDING RESIDENTS UNLESS APPROVED BY THE ENGINEER.

UTILITY GENERAL NOTES

- WATER MAIN SHALL BE POLYVINYL CHLORIDE (PVC) C900 FOR THE PROPOSED IMPROVEMENTS. ALL NEW WATER MAIN PIPE IS PROPOSED TO BE 12-INCH DIAMETER PIPE.
- TRACER WIRE SHALL BE REQUIRED FOR ALL NEW WATER PIPE.
- PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- NEAREST OUTSIDE WALL OF PVC C900 WATER MAIN SHALL BE A MINIMUM HORIZONTAL DISTANCE OF 10 FEET FROM THE NEAREST OUTSIDE WALL OF THE SANITARY SEWER UNLESS OTHERWISE SPECIFIED. (N) WATER MAIN SHALL BE BACKFILLED WITH CDF IF CLOSER THAN 10 FEET TO THE SANITARY SEWER (OUTSIDE WALL TO OUTSIDE WALL).
- NEAREST OUTSIDE WALL OF PVC C900 WATER MAIN SHALL BE A MINIMUM HORIZONTAL DISTANCE OF 4 FEET FROM THE NEAREST OUTSIDE WALL OF THE STORM DRAIN. (N) WATER MAIN SHALL BE BACKFILLED WITH CDF IF CLOSER THAN 4 FEET TO THE STORM DRAIN (OUTSIDE WALL TO OUTSIDE WALL).
- WATER MAIN SHALL HAVE A MINIMUM COVER OF 30 INCHES. WATER LINES WITH LESS THAN 30 INCHES OF COVER SHALL COMPLY WITH SHEET D-03 DETAIL 2. WHERE PROFILE VIEW SHOWS WATER MAIN DEEPER THAN 3 FEET, THE PROFILE SHALL GOVERN.
- ALL VALVES ON ABANDONED PIPE SHALL BE ABANDONED IN PLACE UNLESS OTHERWISE NOTED.
- ALL WATER MAIN CROSSINGS WITH SANITARY SEWER LINES, STORM DRAIN LINES, SERVICE LATERALS, UTILITY CROSSINGS, AND WATER MAIN CROSSINGS SHALL HAVE A MINIMUM OF 1 FOOT VERTICAL CLEARANCE.
- CONTRACTOR SHALL SUPPLY AND INSTALL (N) GATE VALVES FOR ALL (N) WATER MAINS.
- THRUST BLOCKS SHALL BE CONSTRUCTED AT ALL BENDS, TEES, REDUCERS, BLIND FLANGES, CAPS, AND PLUGS PER SHEET D-02 DETAIL 3.
- ALL WATER SERVICE CONNECTIONS SHALL BE REPLACED FROM THE (N) WATER MAIN TO THE (E) WATER METER. PLANS SHOW SERVICE LATERALS LOCATED BY SURVEY. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND RECONNECTING ALL SERVICE LATERALS.
- RESURFACING AND BACKFILL IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO SHEET D-01 DETAIL 2 (EXCEPT WHERE NOTED) OR AS DIRECTED BY THE ENGINEERING DEPARTMENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REINSTALLING ALL TRAFFIC LOOP DETECTORS AFFECTED BY THE PROPOSED IMPROVEMENTS.
- WATER MAIN SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA REQUIREMENTS AND PROJECT SPECIFICATIONS.
- WATER MAIN, SANITARY SEWER, AND STORM DRAIN CROSSING LOCATIONS SHALL COMPLY WITH TITLES 17 AND 22 OF THE CALIFORNIA CODE OF REGULATIONS RELATED TO DRINKING WATER INCLUDING BUT NOT LIMITED TO TITLE 22, CHAPTER 16, ARTICLE 4 "MATERIALS AND INSTALLATION OF WATER MAINS AND APPURTENANCES" FOR THE SEPARATION OF WATER MAINS AND NON-POTABLE PIPELINES. INCLUDING IF CROSSING A SD OR SS THE (N) WATER MAIN SHALL BE CONSTRUCTED NO LESS THAN 45-DEGREES TO AND AT LEAST ONE FOOT ABOVE THE SD OR SS. NO CONNECTION JOINTS SHALL BE MADE IN THE (N) WATER MAIN WITHIN 8 HORIZONTAL FEET OF THE SD OR SS.

WATER UTILITY NOTES

- ALL HORIZONTAL BENDS MUST BE INSTALLED WITH PERMANENT MARKINGS INDICATING THE LOCATIONS OF BENDS.
- ALL THRUST BLOCKS MUST BE CONSTRUCTED WITH ALL THREAD RESTRAINT COUPLINGS AT TEES AND BENDS.
- ALL BLOW OFF APPARATUSSES SHALL BE INSTALLED ABOVE GROUND DUE TO THE PENINSULA REGION.
- CONTRACTOR SHALL USE ROCK SAW TO OPEN TRENCH ON UNIVERSITY AVENUE FROM BAY ROAD THROUGH DONOHOE STREET.
- CONTRACTOR SHALL USE TRACER WIRE THROUGHOUT THE ENTIRE PROJECT ON ALL WATER MAINS, LATERALS, FIRE LINES, AND FIRE HYDRANTS.
- ALL WATER FITTINGS SUCH AS CORPORATION STOPS, SADDLES, BUSHINGS, SPLICE COMPRESSION FITTINGS, ETC. MUST BE STAMPED NO LEAD (NL) IN ACCORDANCE WITH AWWA STANDARDS.
- ALL COUPLINGS AND FLANGES SHALL BE MJ X MJ AND/OR MJ X FLANGE.
- ALL PRODUCTS IN THE FIELD MUST MEET THE SUBMITTED PROJECT SPECIFICATIONS. NO REUSED MATERIALS AND NO SUBSTITUTIONS FOR SUBMITTED MATERIALS ARE ALLOWED.

STANDARDS FOR SYSTEM AND ALL SERVICE CONNECTIONS:

- FOR SERVICES 2" AND SMALLER, CONNECTION SHALL BE WET TAP ONLY USING DOUBLE STRAPPED BRONZE SADDLE. FOR SERVICES 3" AND LARGER, CONNECTION SHALL BE MADE USING A TEE.
- FOR 3/4" AND 1" SERVICES, POLYETHYLENE TUBING (PE3406) WITH MUELLER INSTA-TITE FITTINGS IS ALLOWED.
- FOR 3/4" AND 2" SERVICES, TYPE "K" SOFT COPPER TUBING (ASTM B-88-62) IS REQUIRED WITH COMPRESSION FITTINGS (NO SOLDERED JOINTS ARE ALLOWED)
- USE FUSION EPOXY COATED (EXTERIOR AND INTERIOR) MUELLER FULL BODIED TAPPING SLEEVE #H-615. USE STAINLESS STEEL BOLTS, TRIM, AND SLEEVES. FOR AC PIPES USE #316 STAINLESS STEEL SLEEVES.
- ALL BURIED FERROUS (IRON) FITTINGS AND VALVES SHALL BE FUSION EPOXY COATED (EXTERIOR AND INTERIOR) AND WRAPPED WITH SINGLE LAYER OF 8 MIL POLYETHYLENE COVERING, WITH ENDS TAPED.
- JOINTS SHALL BE RESTRAINED MECHANICAL, FLANGED OR FLEX (NO PUSH ON JOINTS ALLOWED), JOINTS SHALL BE FUSION EPOXY COATED (EXTERIOR AND INTERIOR)
- 2" NUT MUELLER RESILIENT WEDGE GATE VALVES SHALL BE FUSION EPOXY COATED (EXTERIOR AND INTERIOR).

DRAWING NAME: Z:\Projects\221 City of East Palo Alto\005_12inch Transmission Watermain\AAA Latest\Cover Sheet.dwg
PLOT DATE: 07-21-23 PLOTTED BY: kyu

DATE:	7/21/23	4/14/23	90% SUBMITTAL (WEEKS ST)	
SCALE:	AS NOTED	5/5/23	90% SUBMITTAL (UNIVERSITY AVE)	
DESIGNED:	JJF	6/30/23	100% SUBMITTAL	
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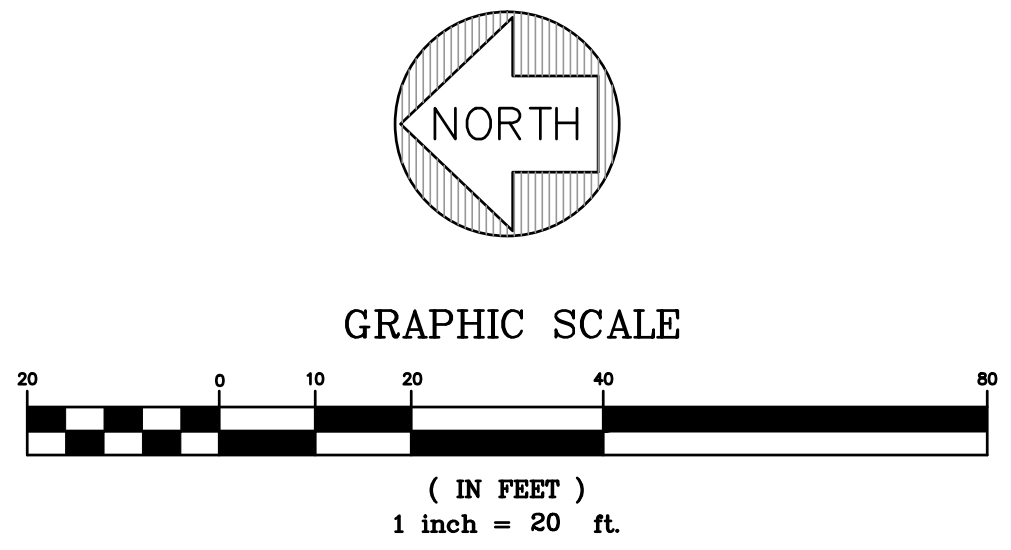
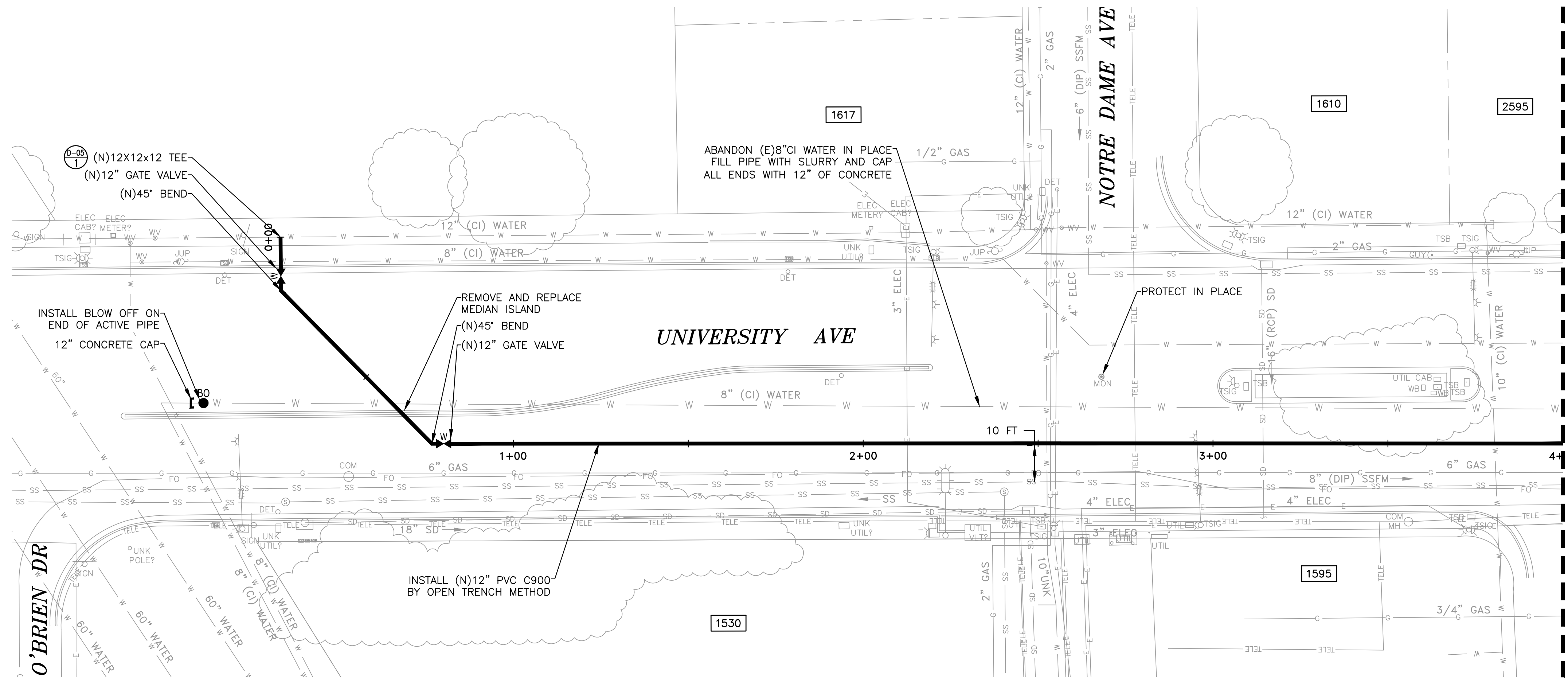


**UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
CITY OF EAST PALO ALTO**

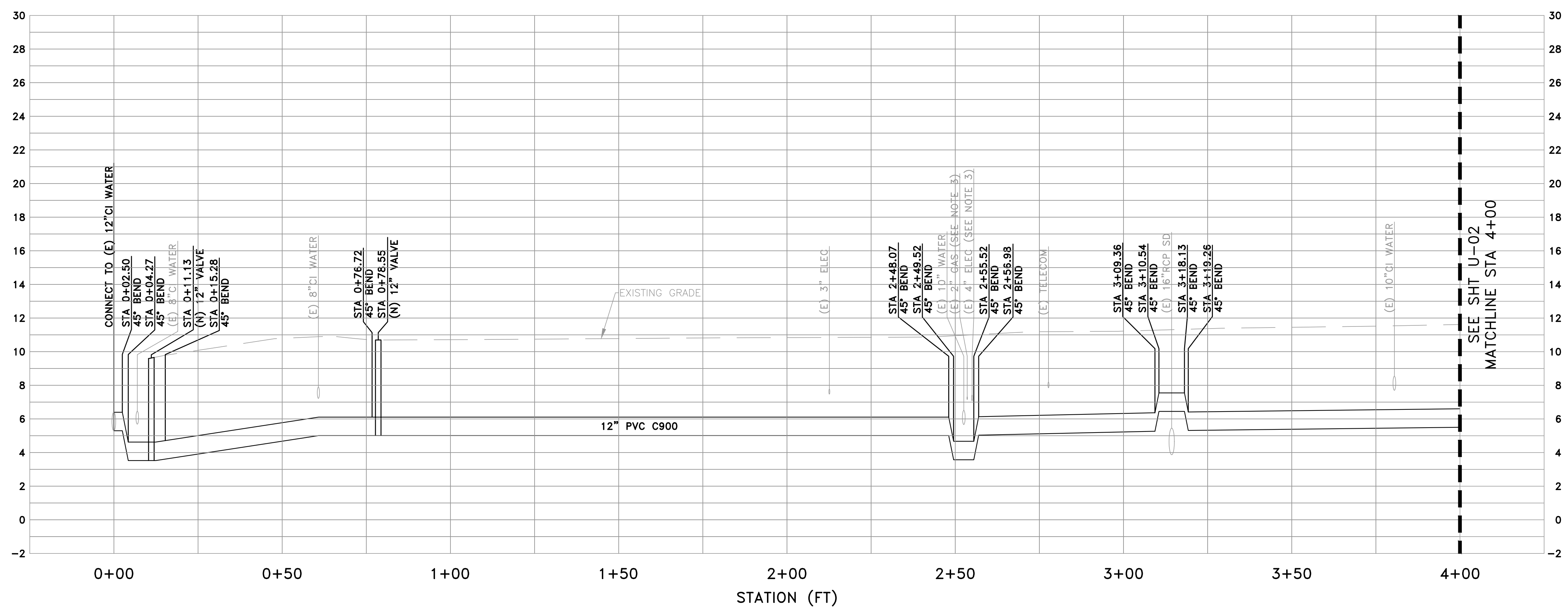
GENERAL NOTES

SHEET
G-02
JOB NO.
221005

DRAWING NAME: Z:\Projects\21 City of East Palo Alto\005_12inch Transmission Watermain\AAA Latest\Utility Plan - University.dwg
 PLOT DATE: 07-21-23 PLOTTED BY: kyau



- UTILITY PLAN NOTES**
- ① ALL NEW 12" WATER PIPE SHALL BE PVC C900.
 - ② EXISTING UTILITY LOCATION AND DEPTH SHALL BE CONFIRMED BY CONTRACTOR ON SITE PRIOR TO BEGINNING WORK.
 - ③ UTILITY DEPTH VERIFIED BY POTHOLING. SEE ATTACHMENT E OF THE SPECIFICATIONS FOR POTHOLING REPORT BY BESS TESTLAB DATED 4/6/2021 AND POTHOLING REPORT BY EXARO DATED 5/31/2023.
 - ④ STATE VARIANCE REQUIRED AT LOCATIONS WHERE NEW WATER PIPE CANNOT BE CONSTRUCTED ABOVE SANITARY SEWER AND STORM DRAIN CROSSINGS.
 - ⑤ ADA CURB RAMPS THAT HAVE BEEN DISTURBED OR DAMAGED SHALL BE RESTORED OR REPLACED.
 - ⑥ CURB INLETS THAT HAVE BEEN DISTURBED OR DAMAGED SHALL BE RESTORED OR REPLACED IN-KIND.

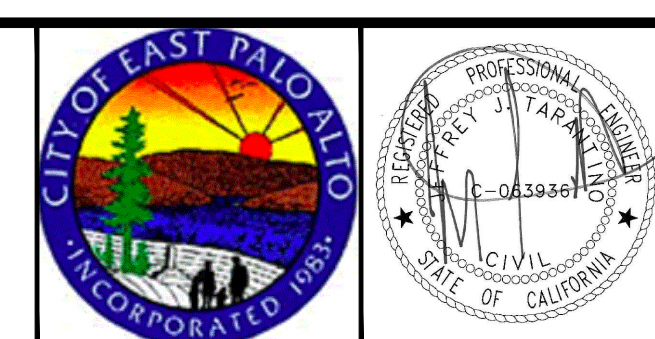


PROFILE VIEW
 HORIZ: 1" = 20'
 VERT: 1" = 4'

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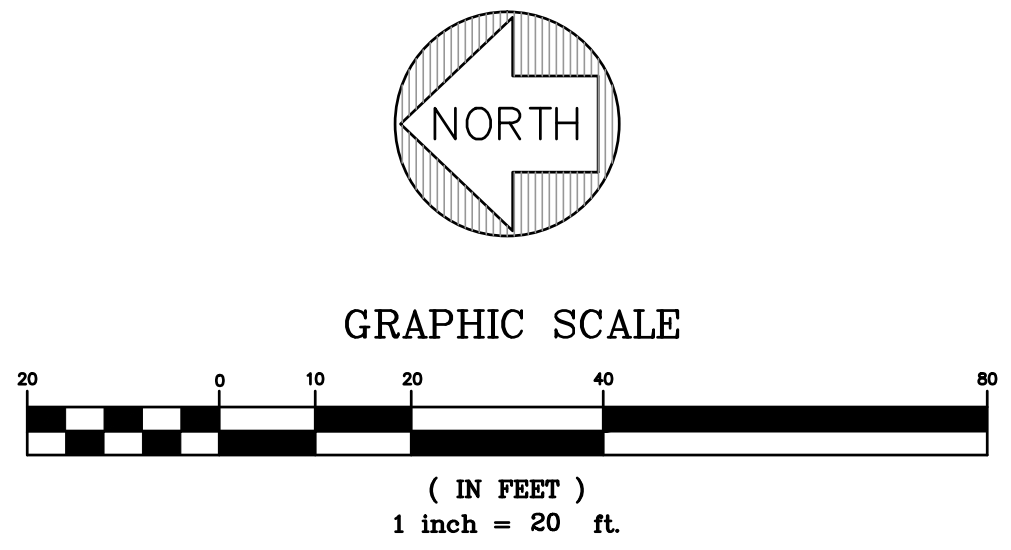
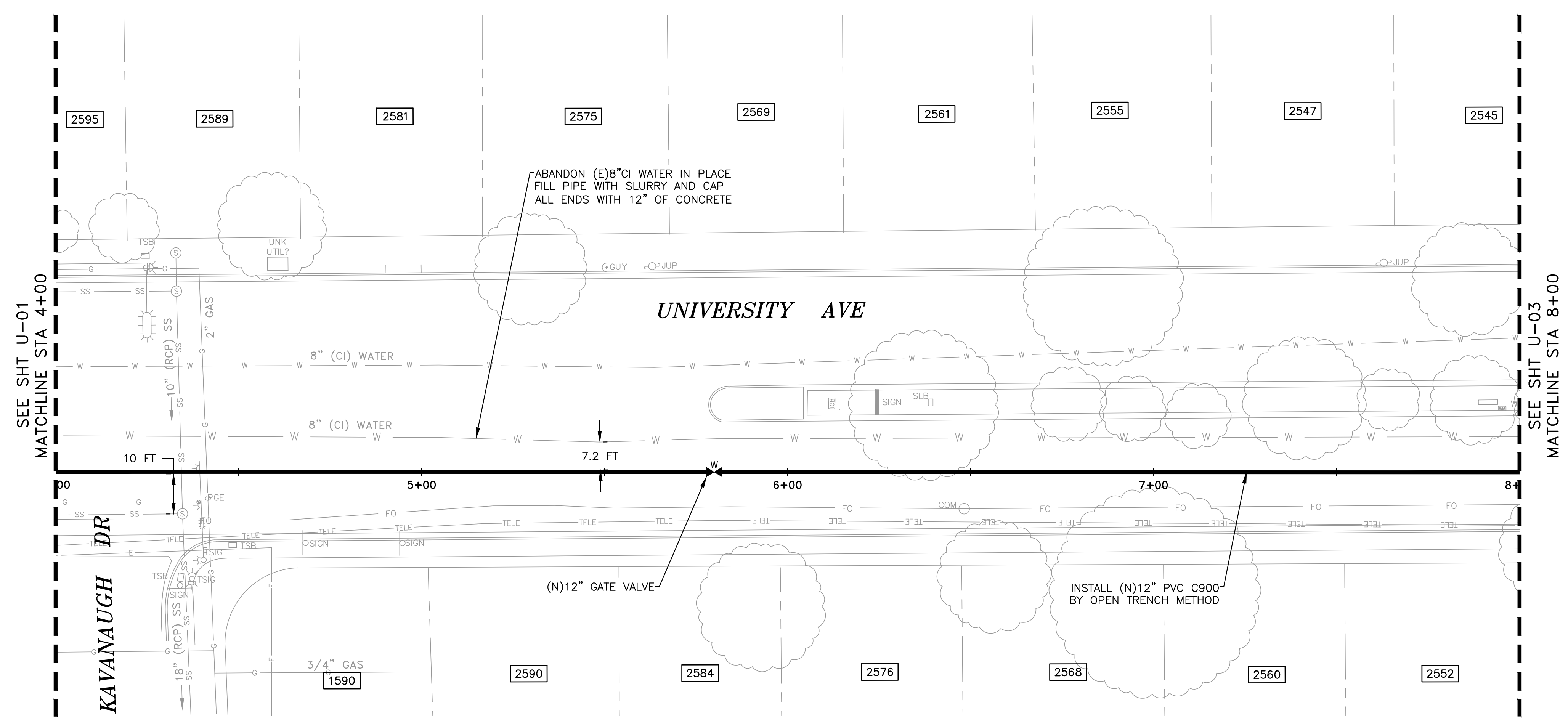
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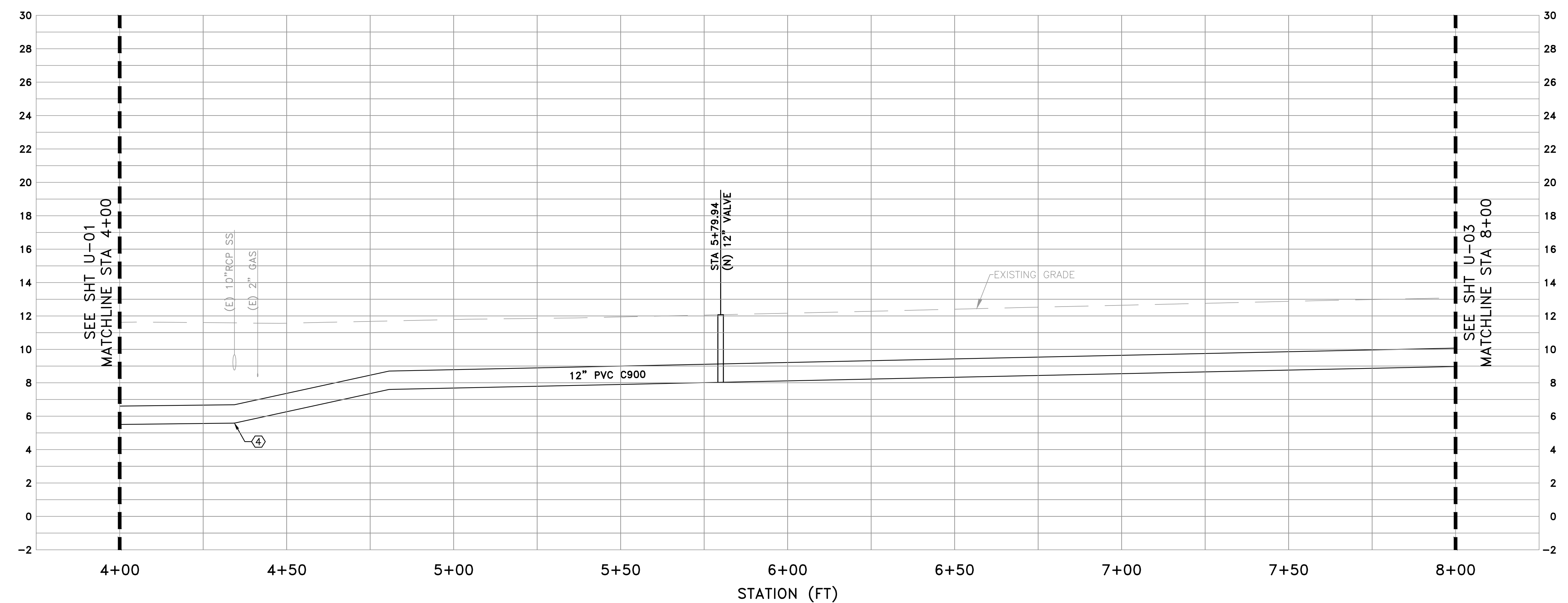
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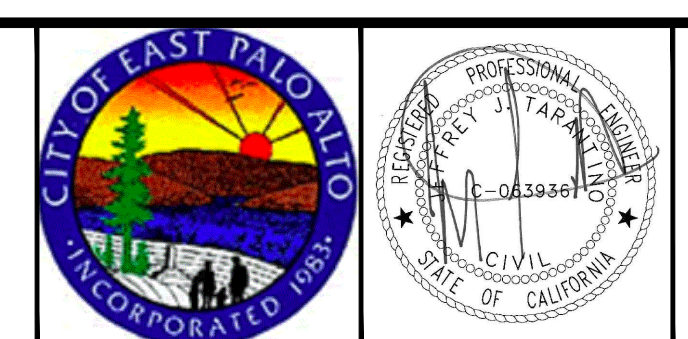
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PROJ. ENGR:	JJF		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D



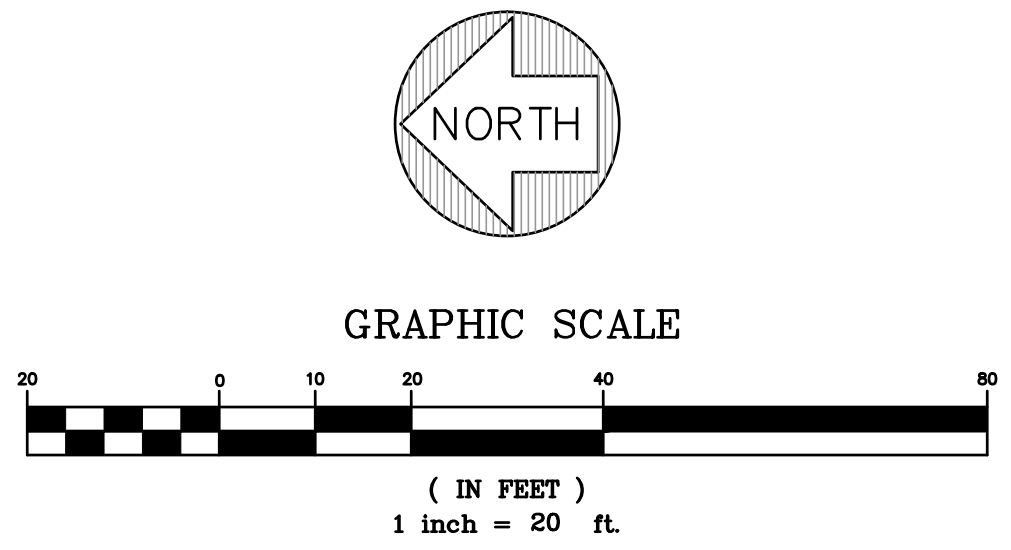
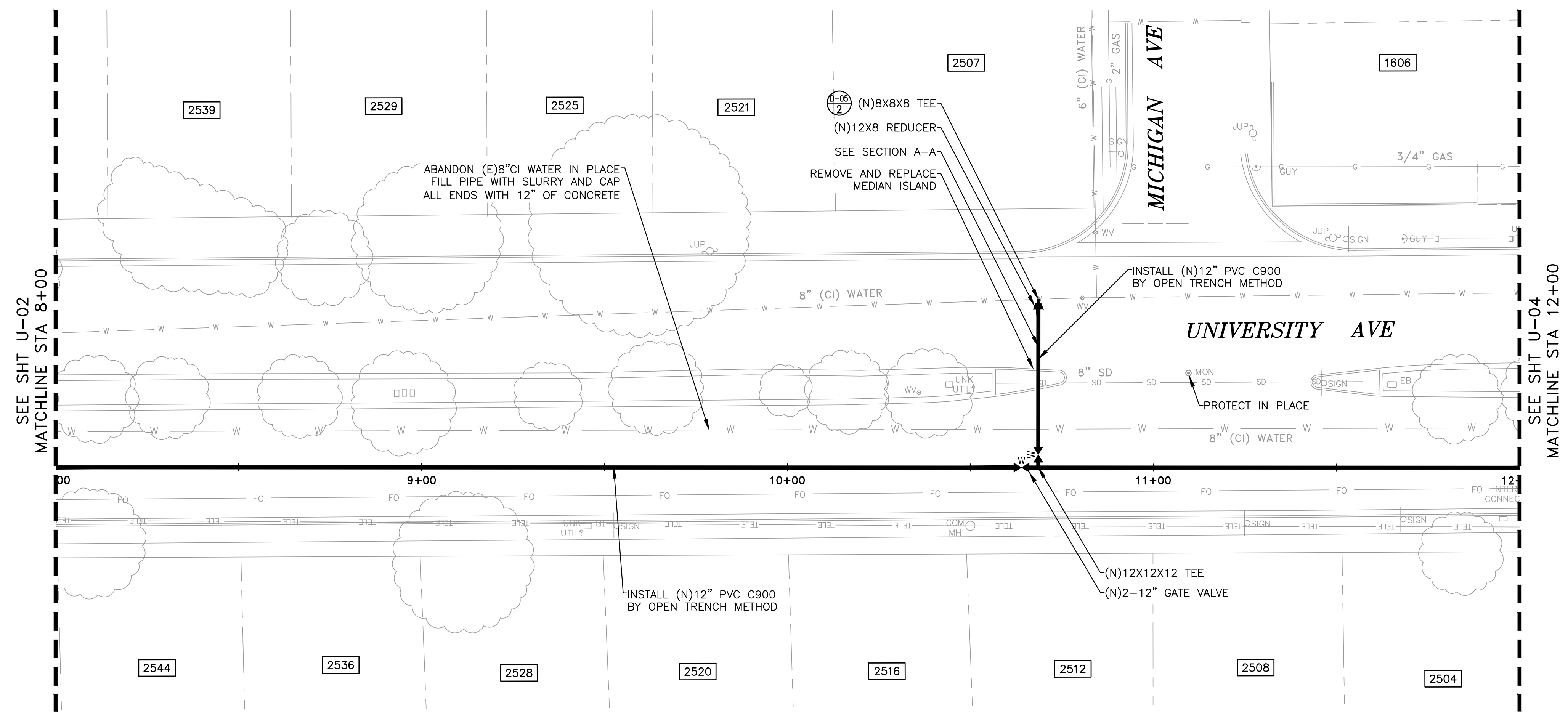
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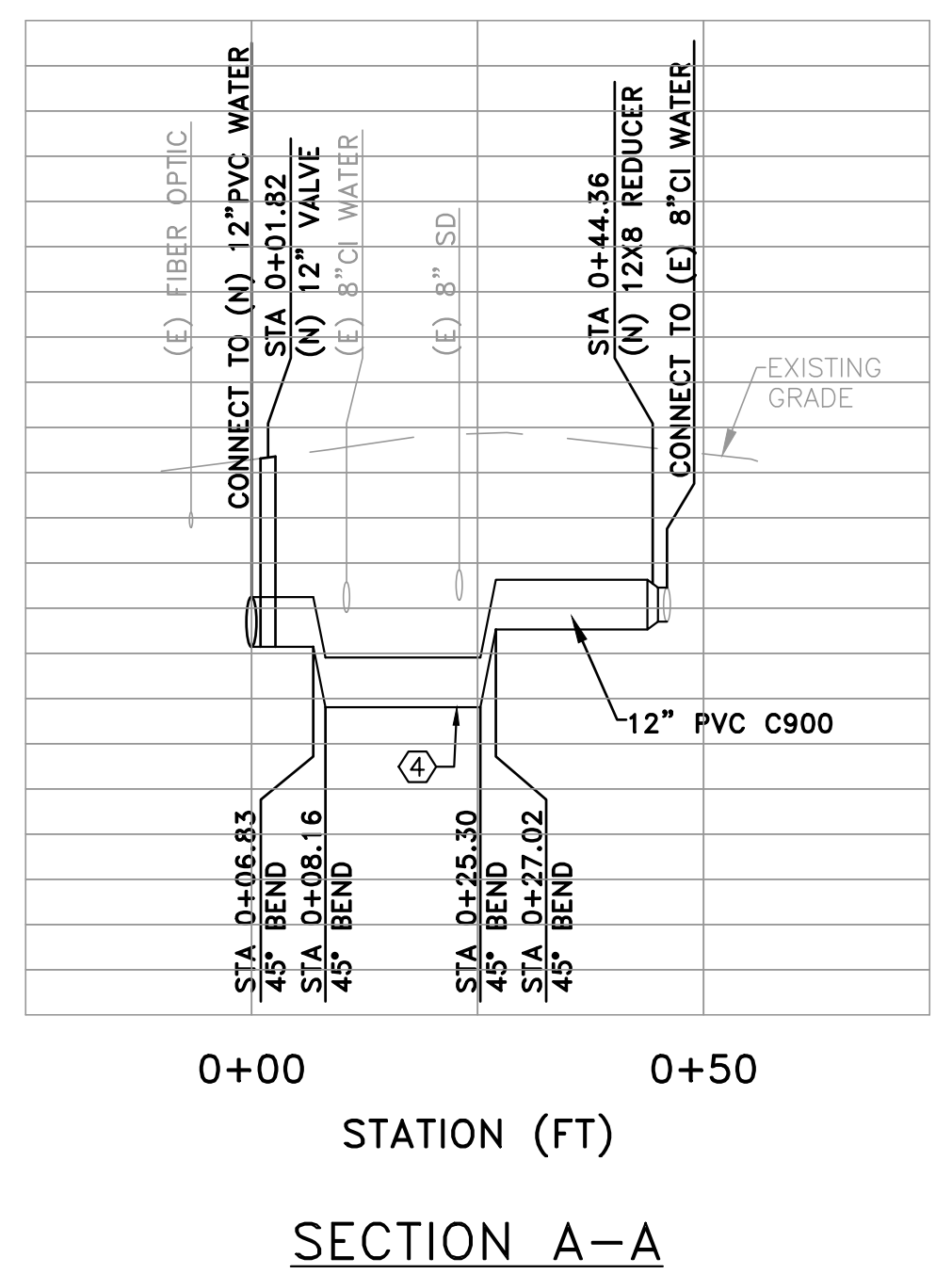
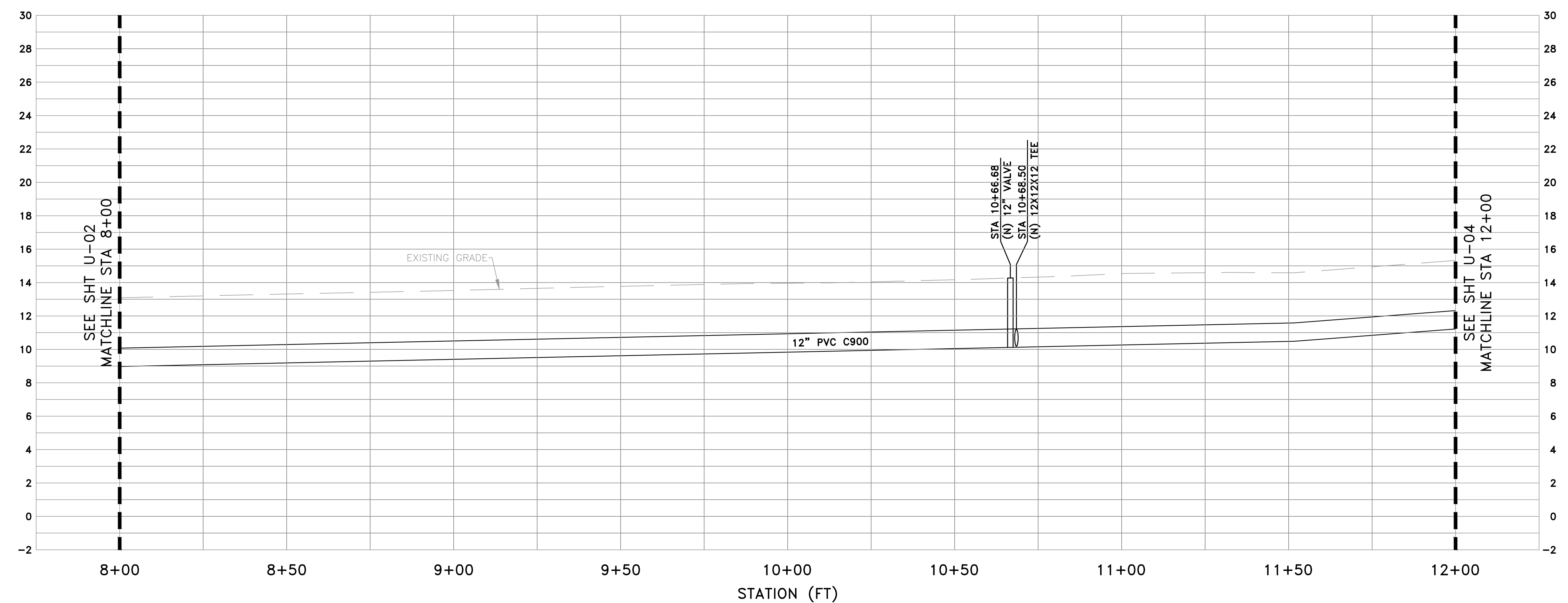
UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
CITY OF EAST PALO ALTO
PLAN & PROFILE - UNIVERSITY AVE
STA 4+00 TO 8+00

SHEET	U-02
JOB NO.	221005

DRAWING NAME: Z:\Projects\221 City of East Palo Alto\005_12inch Transmission Watermain\AAA Latest\Utility Plan - University.dwg
 PLOT DATE: 07-21-23 PLOTTED BY: kyau



- UTILITY PLAN NOTES**
- ① ALL NEW 12" WATER PIPE SHALL BE PVC C900.
 - ② EXISTING UTILITY LOCATION AND DEPTH SHALL BE CONFIRMED BY CONTRACTOR ON SITE PRIOR TO BEGINNING WORK.
 - ③ UTILITY DEPTH VERIFIED BY POTHOLING. SEE ATTACHMENT E OF THE SPECIFICATIONS FOR POTHOLING REPORT BY BESS TESTLAB DATED 4/6/2021 AND POTHOLING REPORT BY EXARO DATED 5/31/2023.
 - ④ STATE VARIANCE REQUIRED AT LOCATIONS WHERE NEW WATER PIPE CANNOT BE CONSTRUCTED ABOVE SANITARY SEWER AND STORM DRAIN CROSSINGS.
 - ⑤ ADA CURB RAMPS THAT HAVE BEEN DISTURBED OR DAMAGED SHALL BE RESTORED OR REPLACED.
 - ⑥ CURB INLETS THAT HAVE BEEN DISTURBED OR DAMAGED SHALL BE RESTORED OR REPLACED IN-KIND.

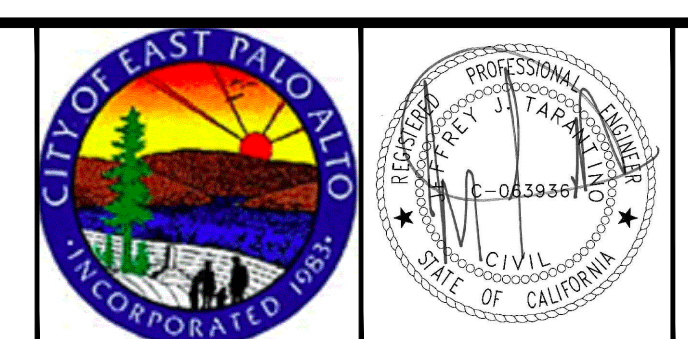


PROFILE VIEW
 HORIZ: 1" = 20'
 VERT: 1" = 4'

DATE:	7/21/23	4/14/23	90% SUBMITTAL (WEEKS ST)
SCALE:	AS NOTED	5/5/23	90% SUBMITTAL (UNIVERSITY AVE)
DESIGNED:	JJF	6/30/23	100% SUBMITTAL
DRAWN:	KMY	7/21/23	BID SET
CHECKED:	JJT		
PROJ. ENGR:	JJF		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D



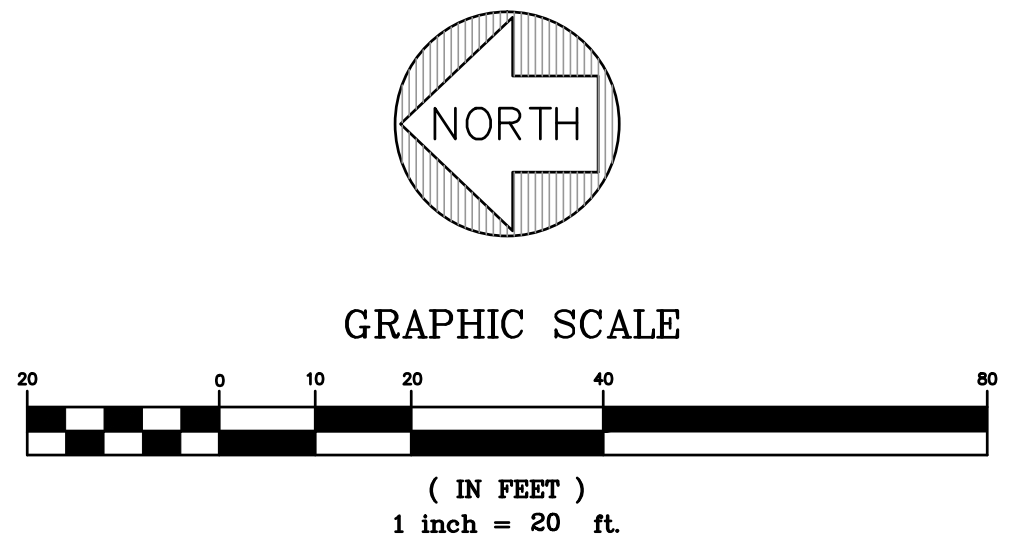
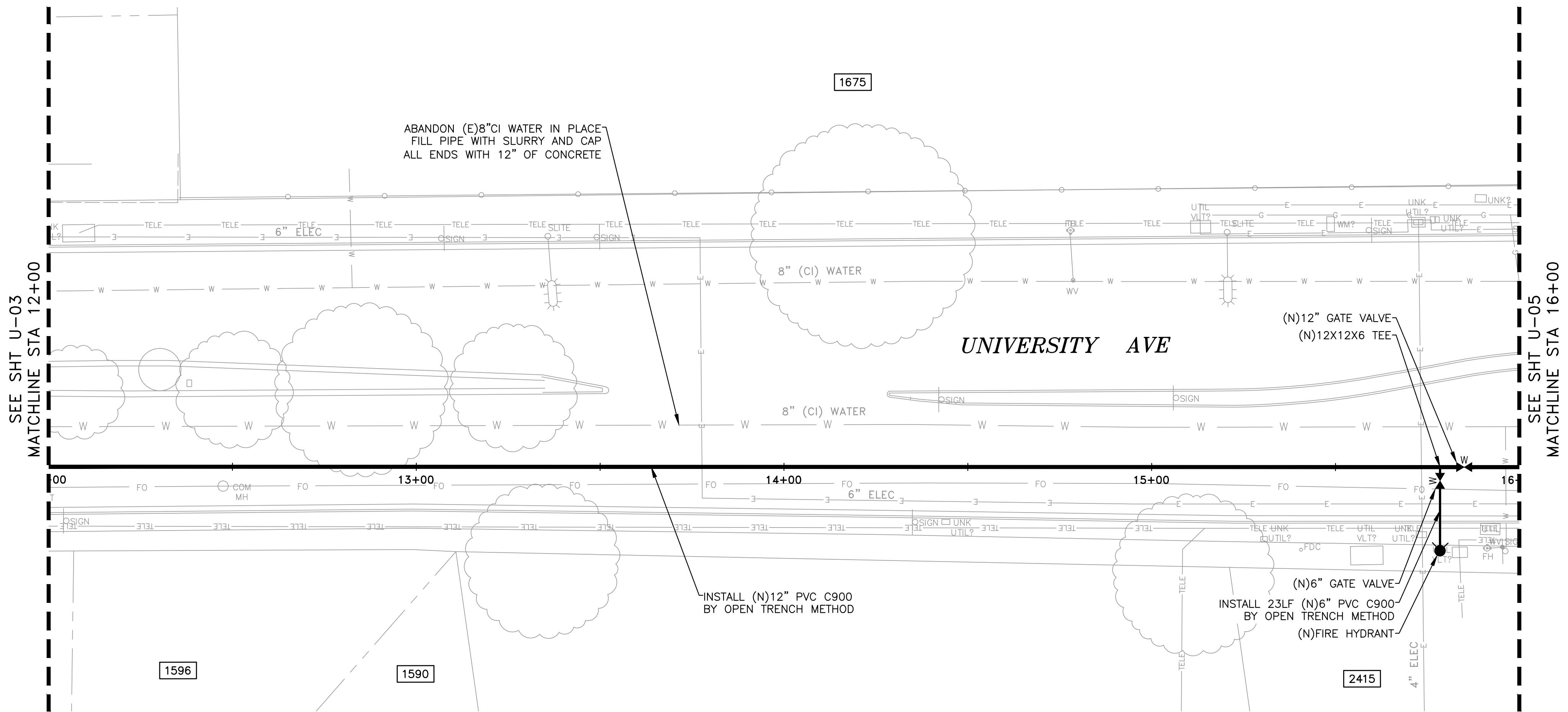
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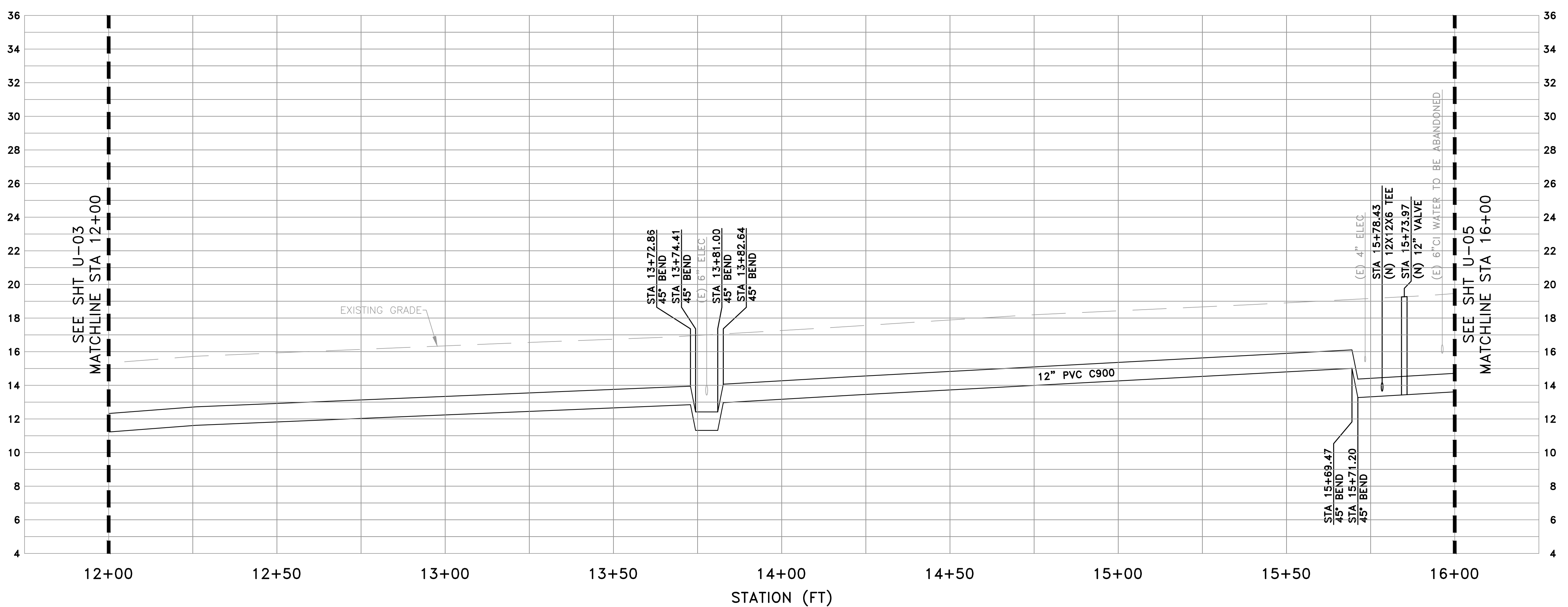
UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
CITY OF EAST PALO ALTO
PLAN & PROFILE - UNIVERSITY AVE
STA 8+00 TO 12+00

SHEET
U-03
 JOB NO.
221005

DRAWING NAME: Z:\Projects\221 City of East Palo Alto\005_12inch Transmission Watermain\AAA Latest\Utility Plan - University.dwg
 PLOT DATE: 07-21-23 PLOTTED BY: kyau



- UTILITY PLAN NOTES
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 - ② EXISTING UTILITY LOCATION AND DEPTH SHALL BE CONFIRMED BY CONTRACTOR ON SITE PRIOR TO BEGINNING WORK.
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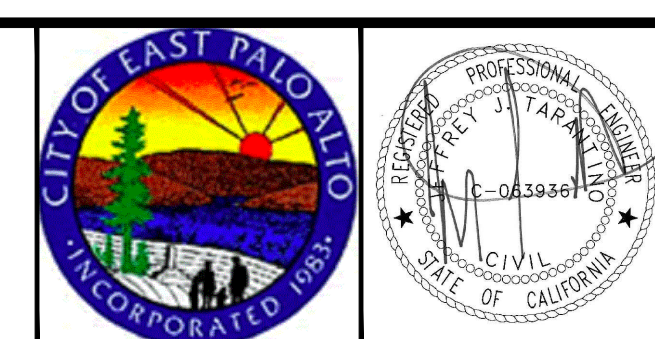


PROFILE VIEW
 HORIZ: 1" = 20'
 VERT: 1" = 4'

DATE:	7/21/23	4/14/23	90% SUBMITTAL (WEKES ST)
SCALE:	AS NOTED	5/5/23	90% SUBMITTAL (UNIVERSITY AVE)
DESIGNED:	JJF	6/30/23	100% SUBMITTAL
DRAWN:	KMY	7/21/23	BID SET
CHECKED:	JJT		
PROJ. ENGR:	JJF		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D



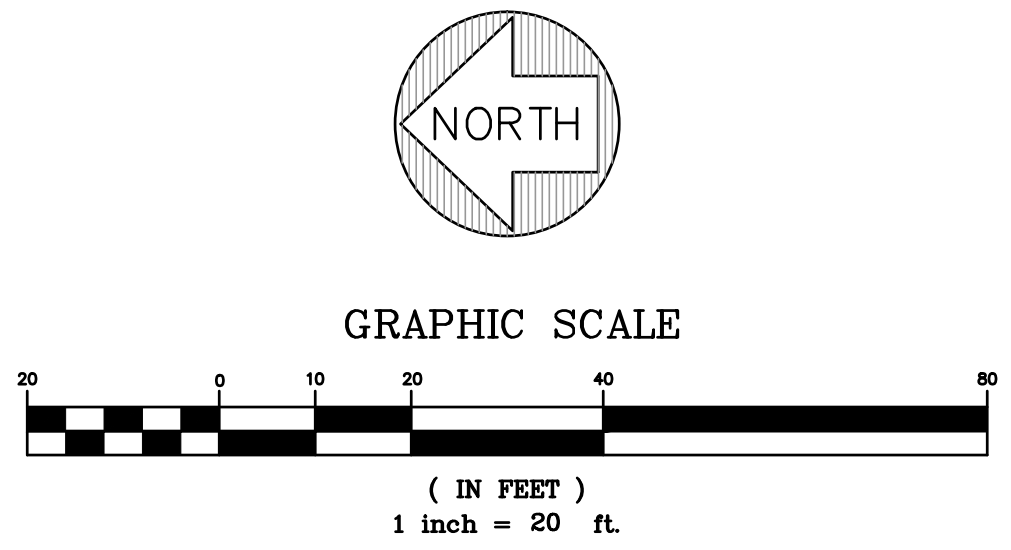
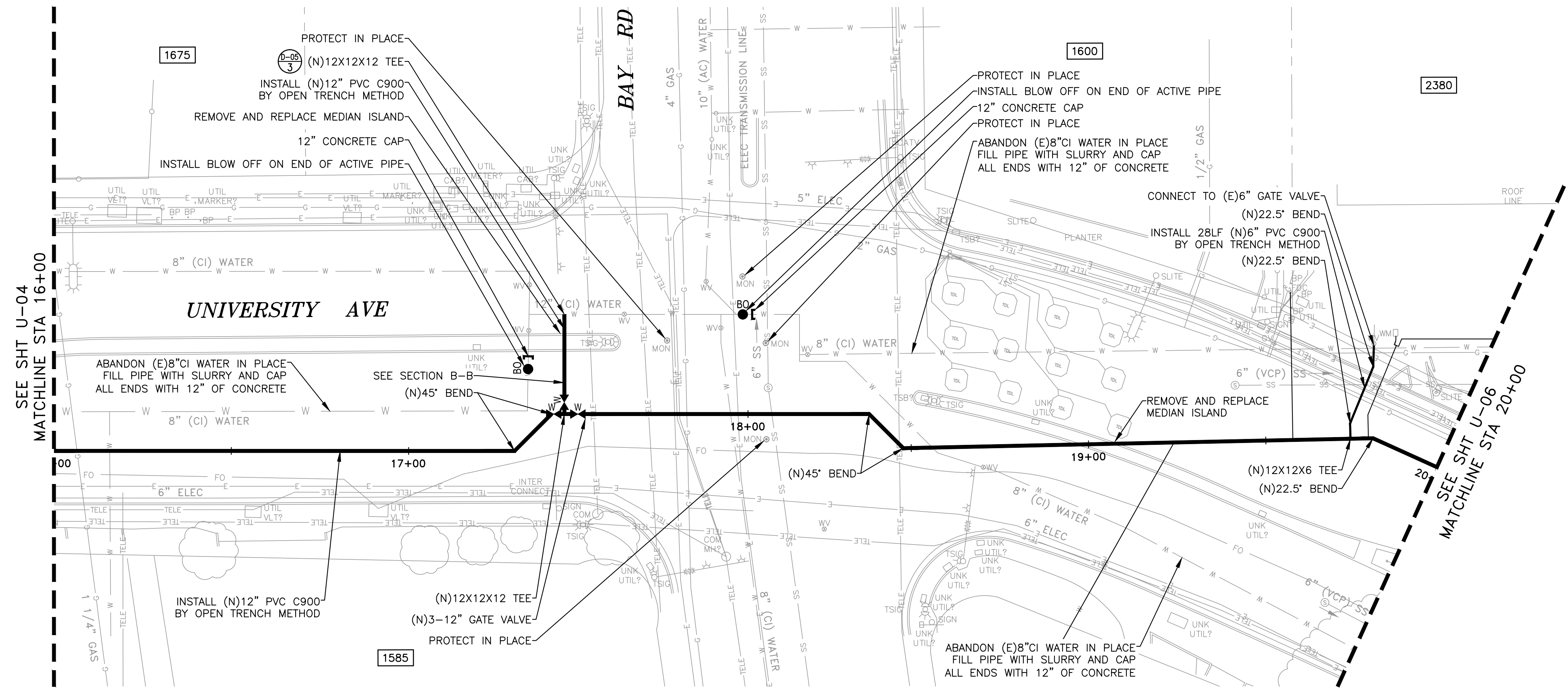
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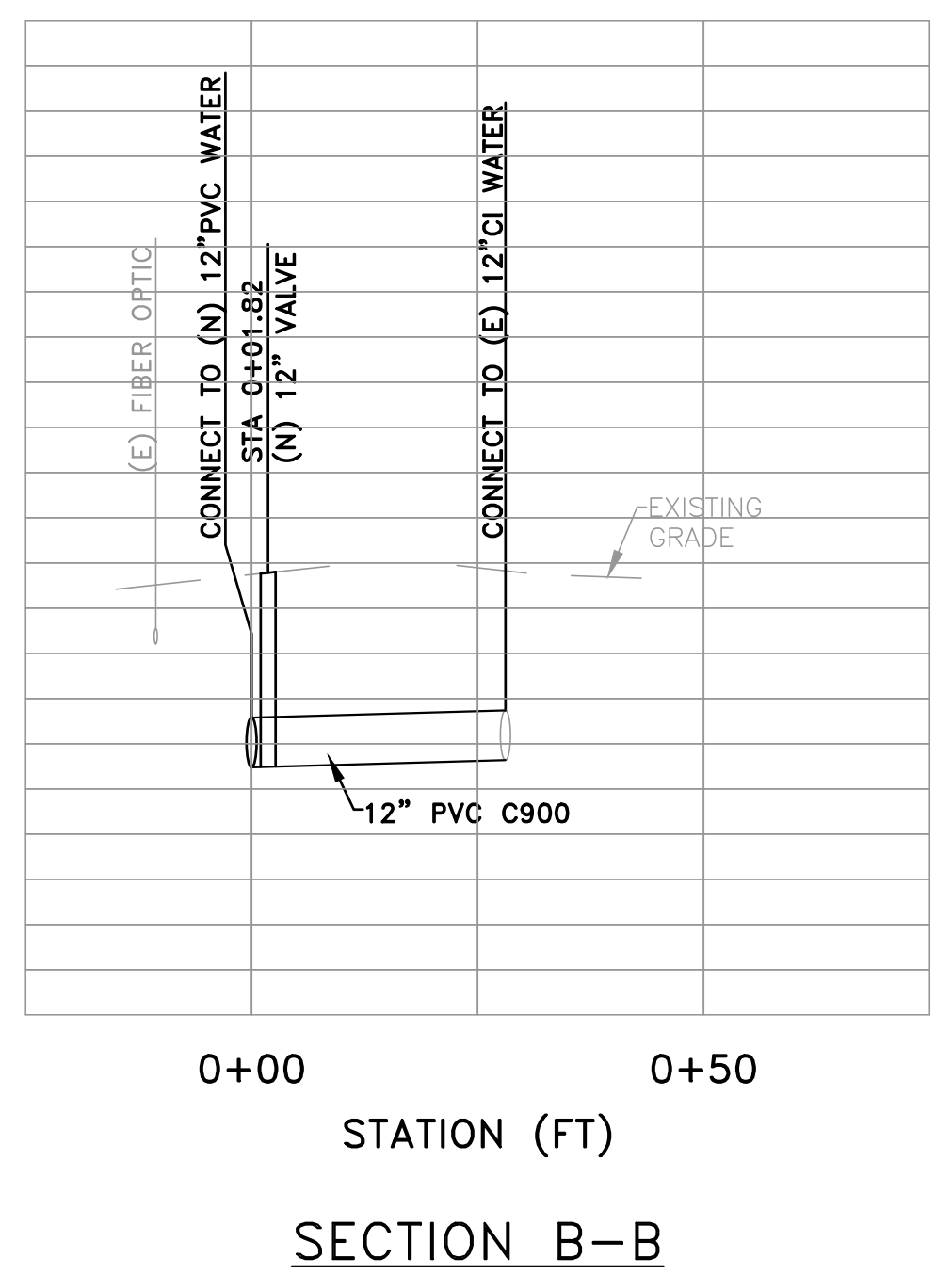
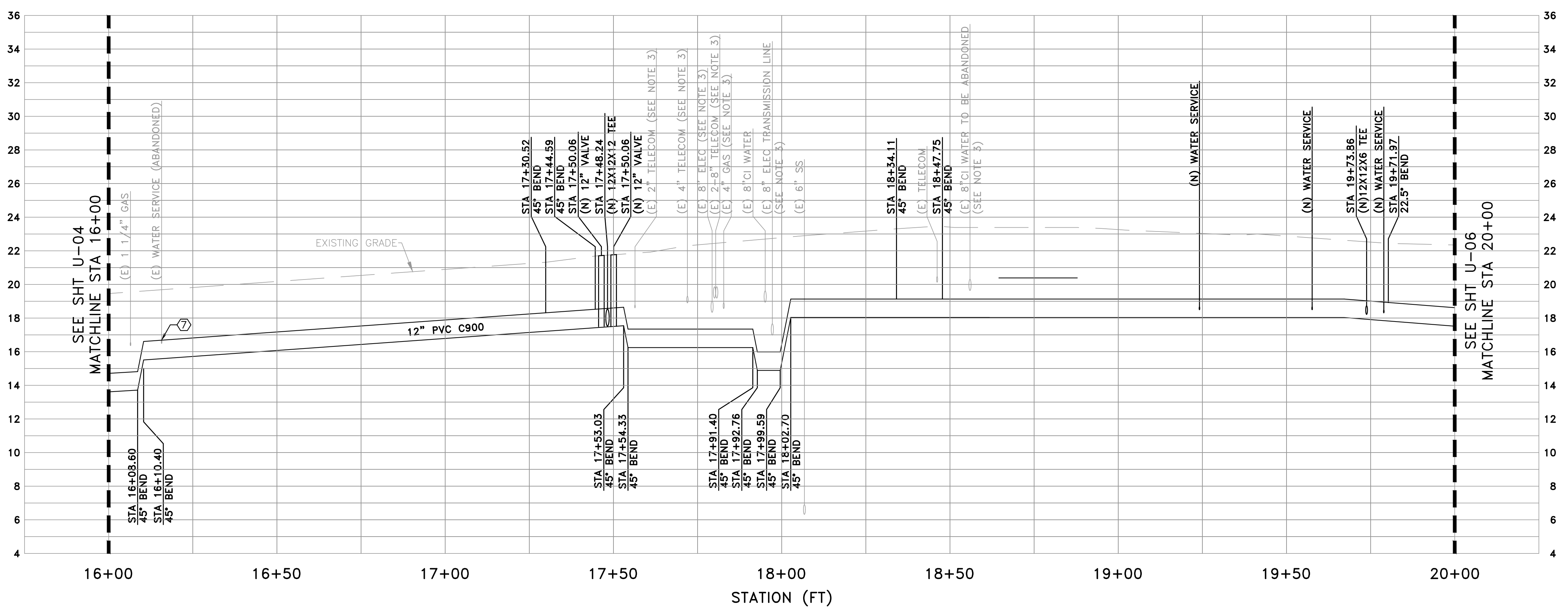
UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
 CITY OF EAST PALO ALTO
PLAN & PROFILE - UNIVERSITY AVE
STA 12+00 TO 16+00

SHEET
U-04
 JOB NO.
221005

DRAWING NAME: Z:\Projects\21 City of East Palo Alto\005_12inch Transmission Watermain\AAA Latest\Utility Plan - University.dwg
 PLOT DATE: 07-21-23 PLOTTED BY: kyau



- UTILITY PLAN NOTES**
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 - ⑥ CURB INLETS THAT HAVE BEEN DISTURBED OR DAMAGED SHALL BE RESTORED OR REPLACED IN-KIND.
 - ⑦ EXISTING CITY HALL WATER SERVICE LATERAL WILL BE ABANDONED BY VEOLIA WATER PRIOR TO THE START OF CONSTRUCTION.

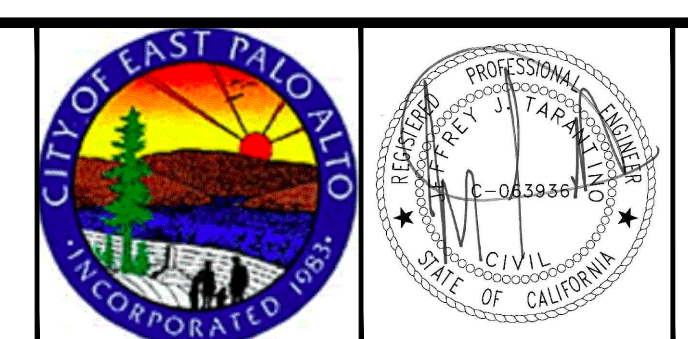


PROFILE VIEW
 HORIZ: 1" = 20'
 VERT: 1" = 4'

DATE:	7/21/23	4/14/23	90% SUBMITTAL (WEEKS ST)
SCALE:	AS NOTED	5/5/23	90% SUBMITTAL (UNIVERSITY AVE)
DESIGNED:	JJF	6/30/23	100% SUBMITTAL
DRAWN:	KMY	7/21/23	BID SET
CHECKED:	JJT		
PROJ. ENGR:	JJF		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D



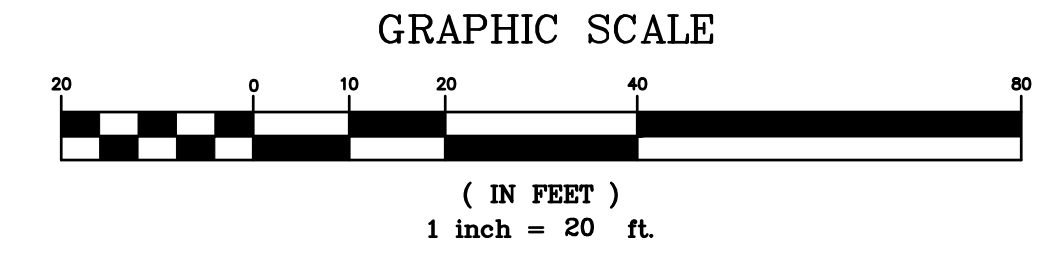
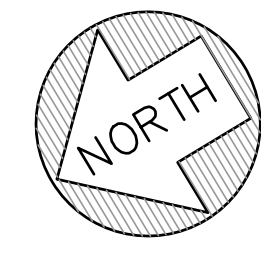
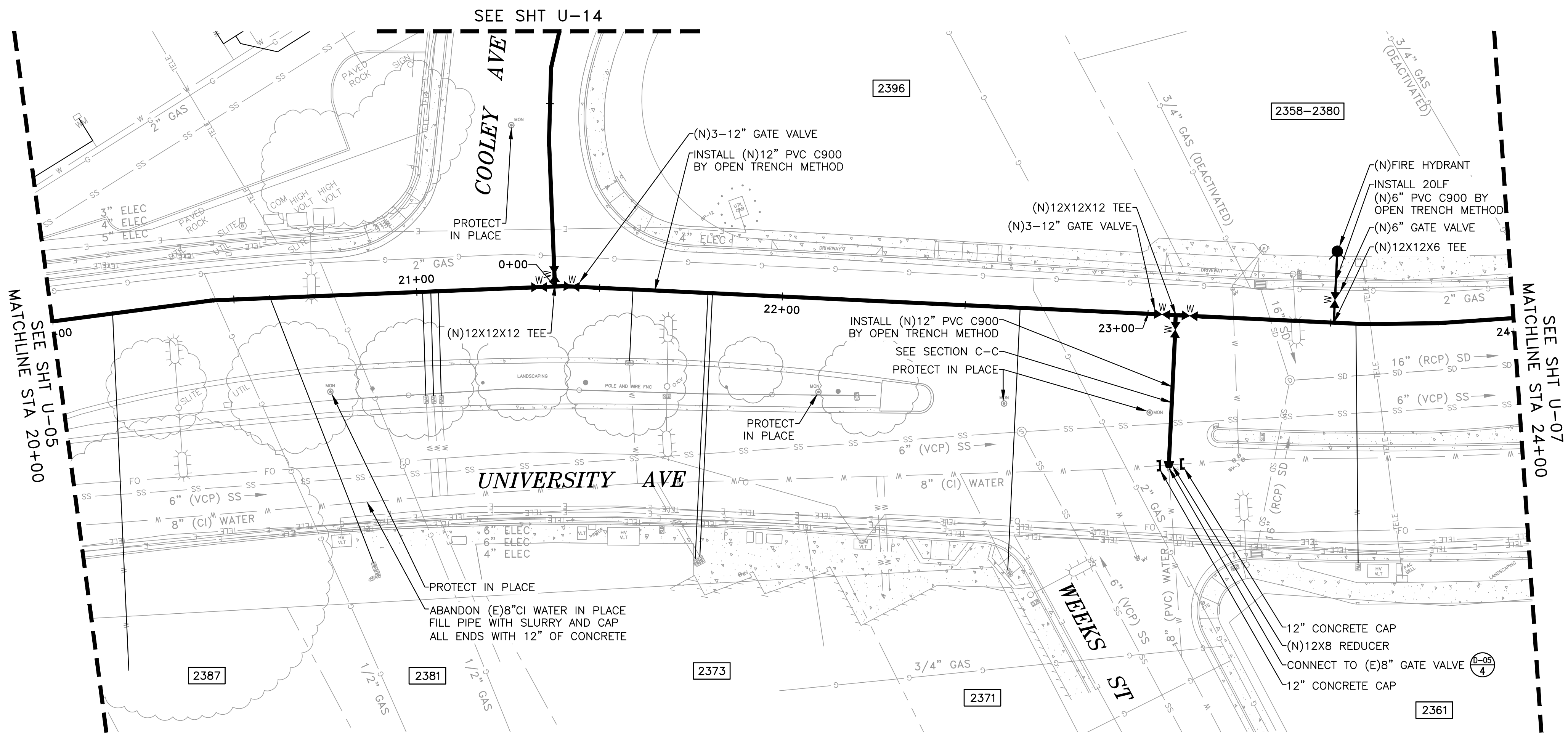
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UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
CITY OF EAST PALO ALTO
PLAN & PROFILE - UNIVERSITY AVE
STA 16+00 TO 20+00

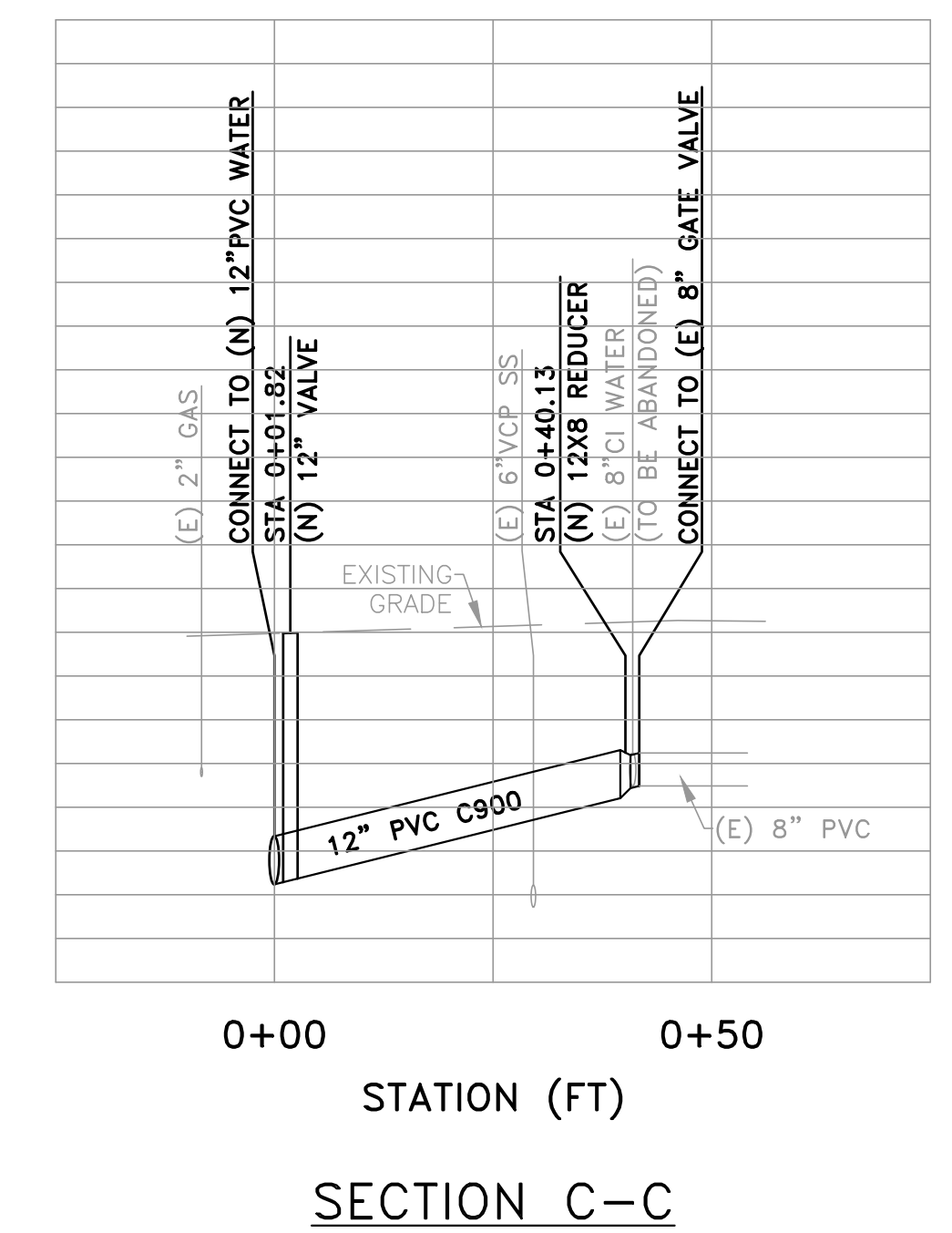
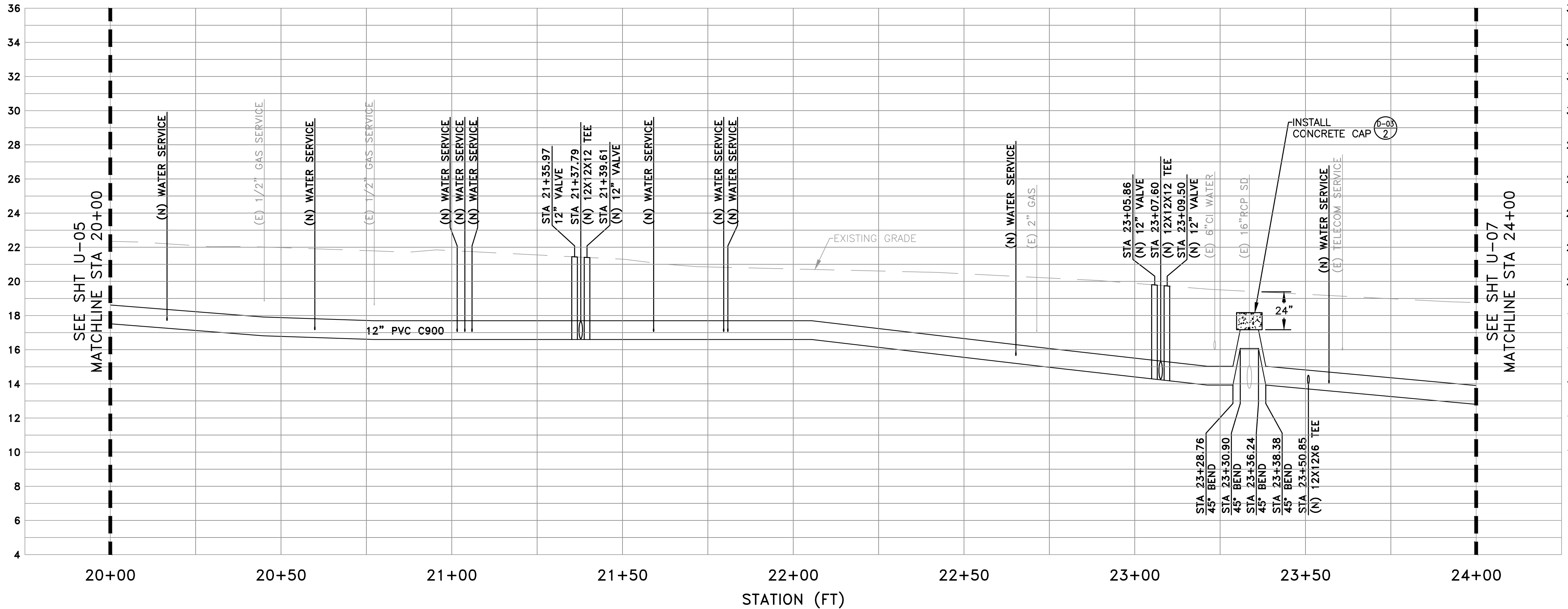
SHEET
U-05
 JOB NO.
221005

DRAWING NAME: Z:\Projects\221 City of East Palo Alto\005_12inch Transmission Watermain\AAA Latest\Utility Plan - University.dwg
 PLOT DATE: 07-21-23 PLOTTED BY: kyau



UTILITY PLAN NOTES

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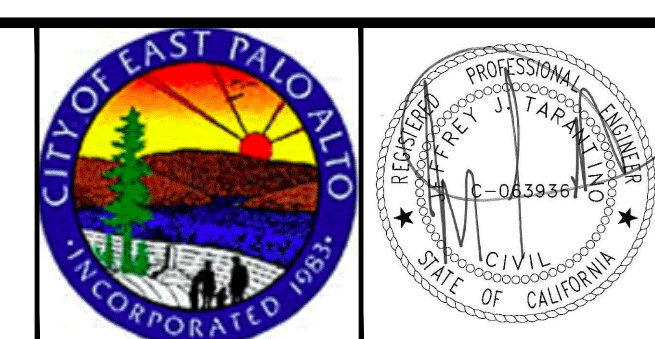


PROFILE VIEW
 HORIZ: 1" = 20'
 VERT: 1" = 4'

DATE:	7/21/23	4/14/23	90% SUBMITTAL (WEEKS ST)
SCALE:	AS NOTED	5/5/23	90% SUBMITTAL (UNIVERSITY AVE)
DESIGNED:	JJF	6/30/23	100% SUBMITTAL
DRAWN:	KMY	7/21/23	BID SET
CHECKED:	JJT		
PROJ. ENGR:	JJF		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D



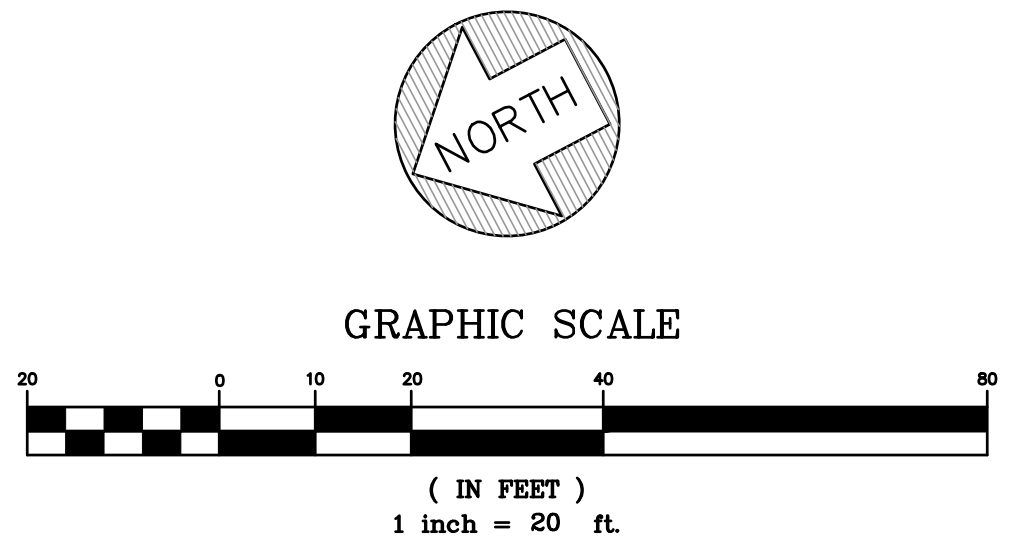
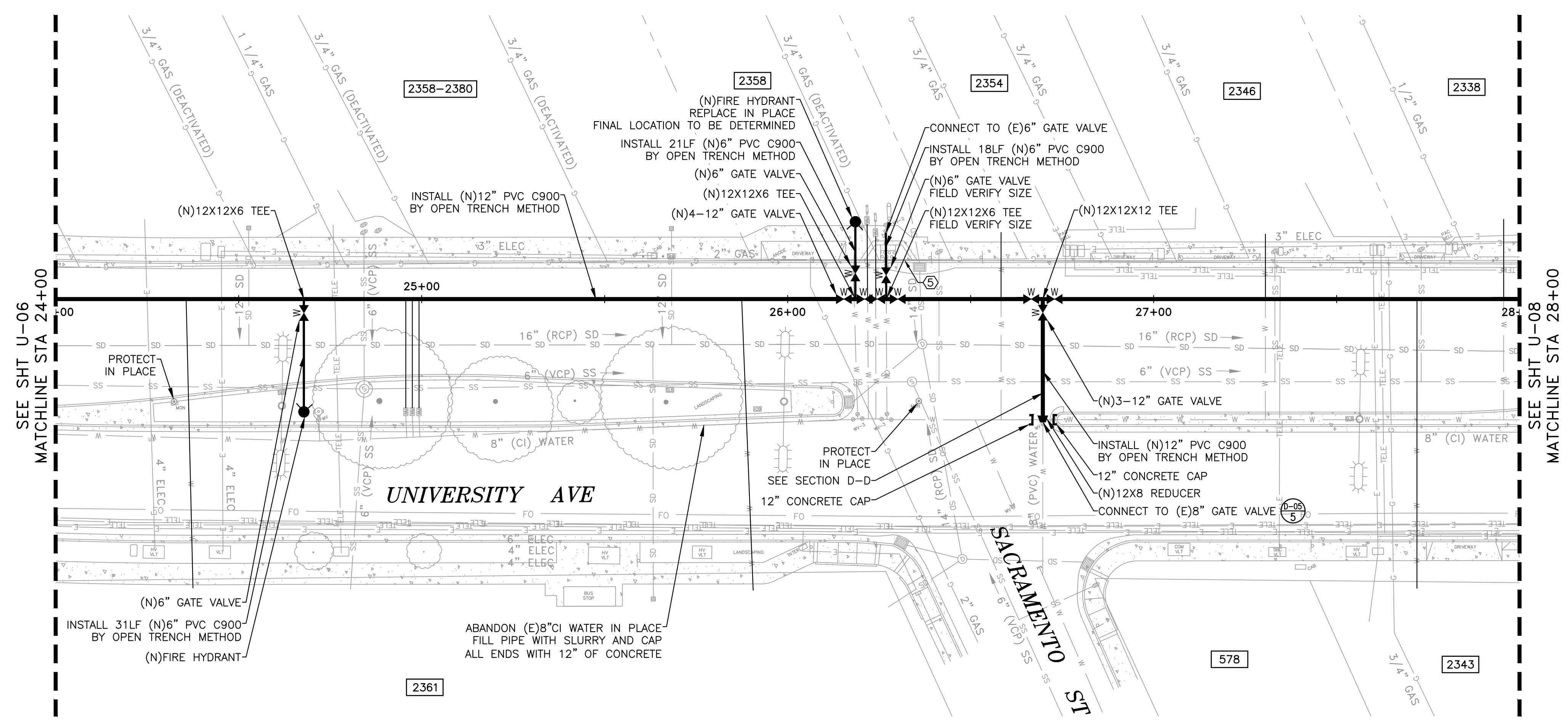
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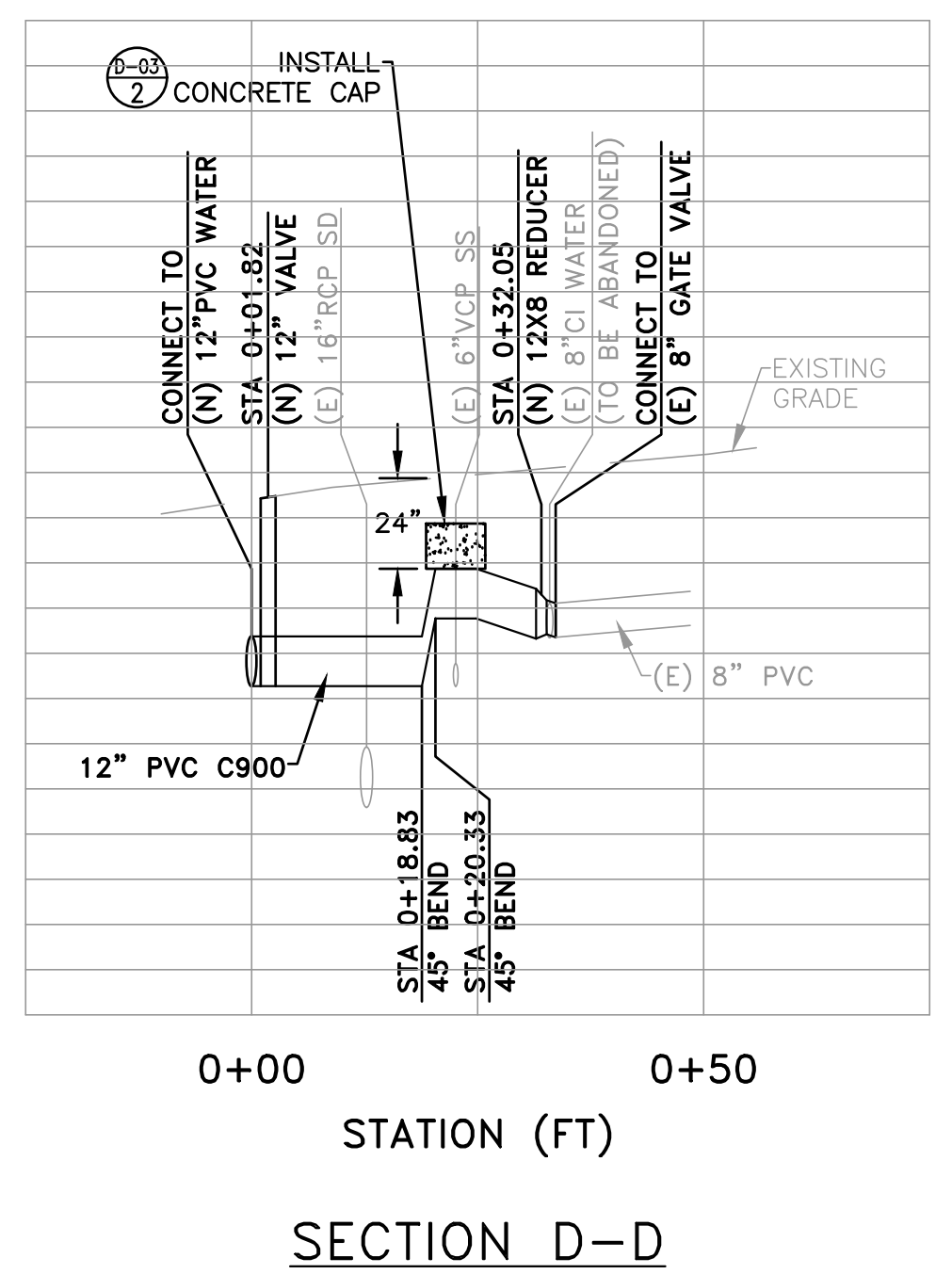
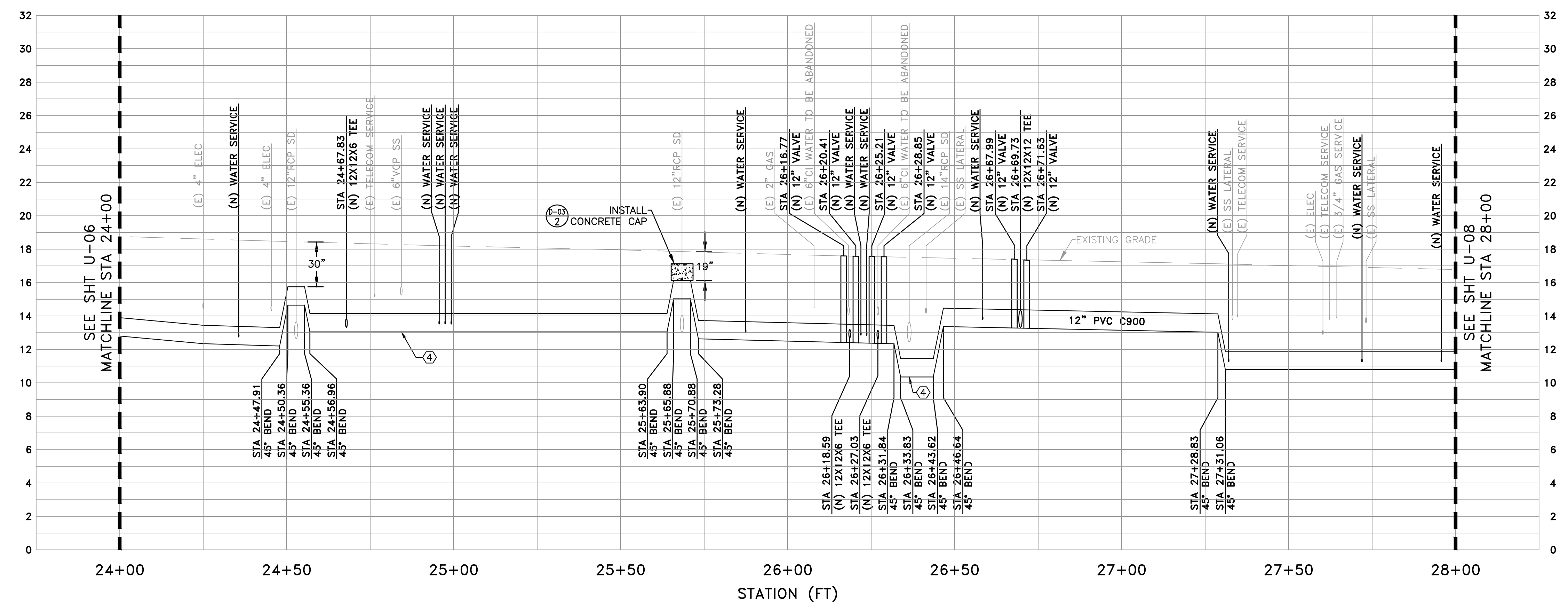
UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
CITY OF EAST PALO ALTO
PLAN & PROFILE - UNIVERSITY AVE
STA 20+00 TO 24+00

SHEET
U-06
 JOB NO.
221005

DRAWING NAME: Z:\Projects\221 City of East Palo Alto\005_12inch Transmission Watermain\AAA Latest\Utility Plan - University.dwg
 PLOT DATE: 07-21-23 PLOTTED BY: kyau



- UTILITY PLAN NOTES**
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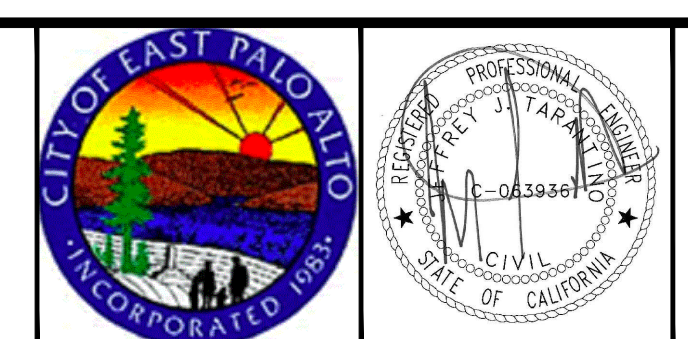


PROFILE VIEW
 HORIZ: 1" = 20'
 VERT: 1" = 4'

DATE:	7/21/23	4/14/23	90% SUBMITTAL (WEKS ST)
SCALE:	AS NOTED	5/5/23	90% SUBMITTAL (UNIVERSITY AVE)
DESIGNED:	JJF	6/30/23	100% SUBMITTAL
DRAWN:	KMY	7/21/23	BID SET
CHECKED:	JJT		
PROJ. ENGR:	JJF		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D



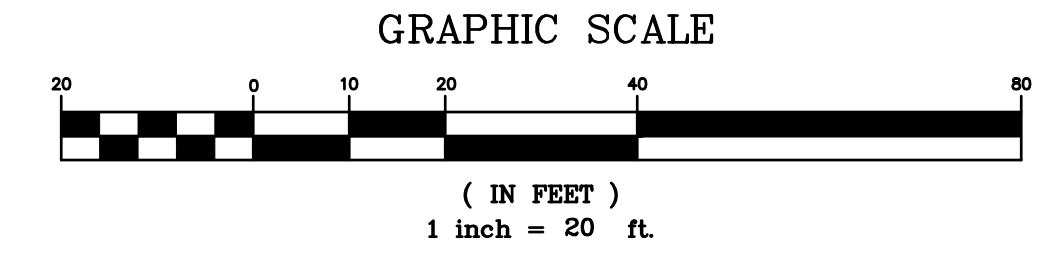
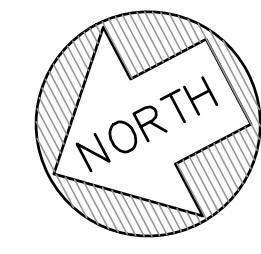
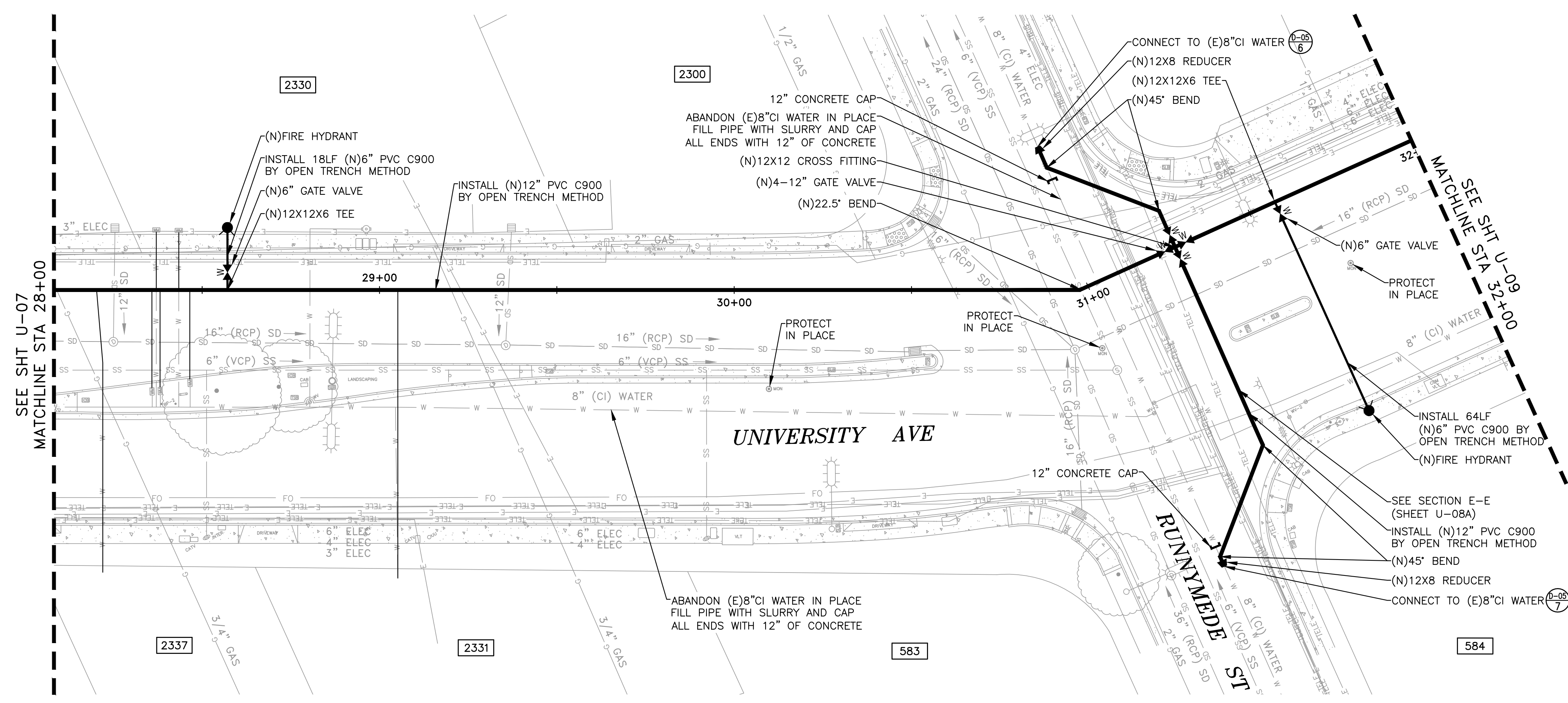
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UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
 CITY OF EAST PALO ALTO
PLAN & PROFILE - UNIVERSITY AVE
STA 24+00 TO 28+00

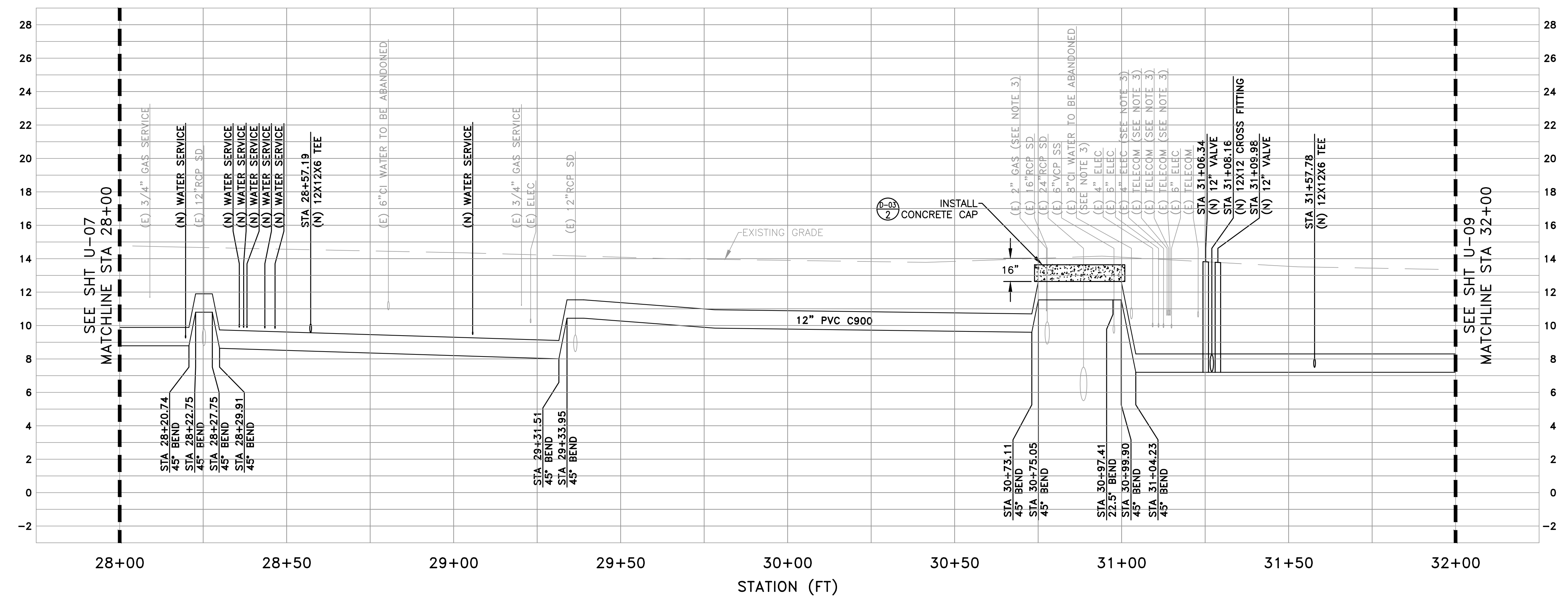
SHEET
U-07
 JOB NO.
221005

DRAWING NAME: Z:\Projects\221 City of East Palo Alto\005_12inch Transmission Watermain\AAA Latest\Utility Plan - University.dwg
 PLOT DATE: 07-21-23
 PLOTTED BY: kyau



UTILITY PLAN NOTES

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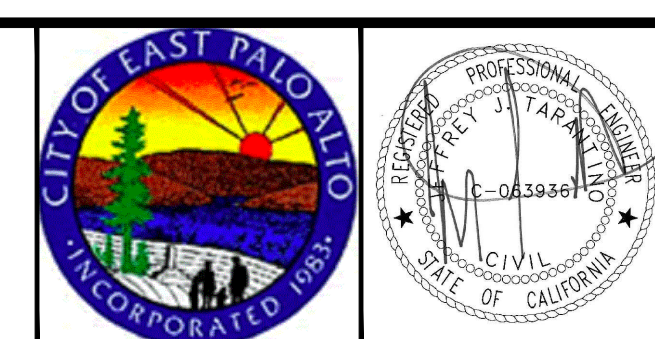


PROFILE VIEW
 HORIZ: 1" = 20'
 VERT: 1" = 4'

DATE:	7/21/23	4/14/23	90% SUBMITTAL (WEEKS ST)
SCALE:	AS NOTED	5/5/23	90% SUBMITTAL (UNIVERSITY AVE)
DESIGNED:	JJF	6/30/23	100% SUBMITTAL
DRAWN:	KMY	7/21/23	BID SET
CHECKED:	JJT		
PROJ. ENGR:	JJF		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D



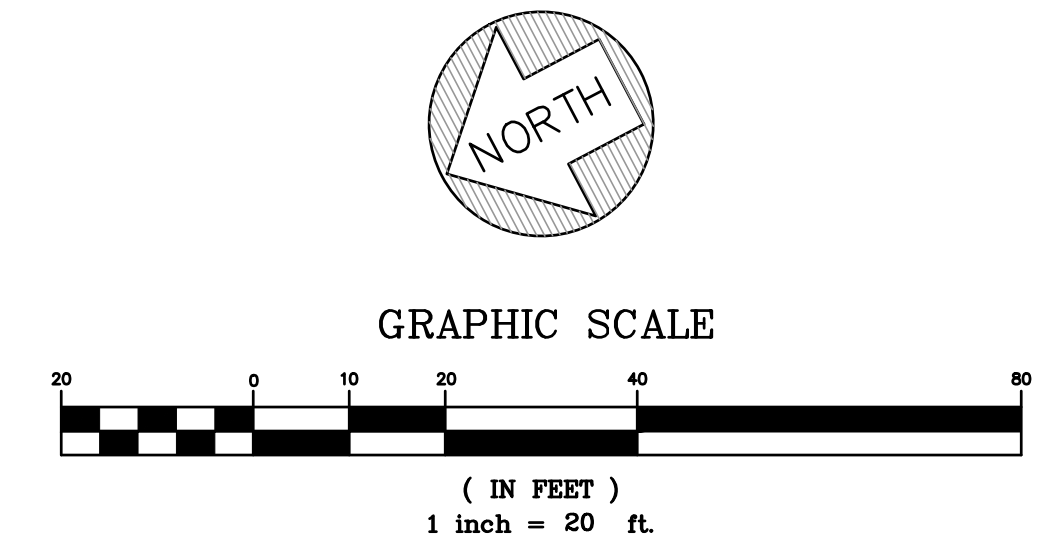
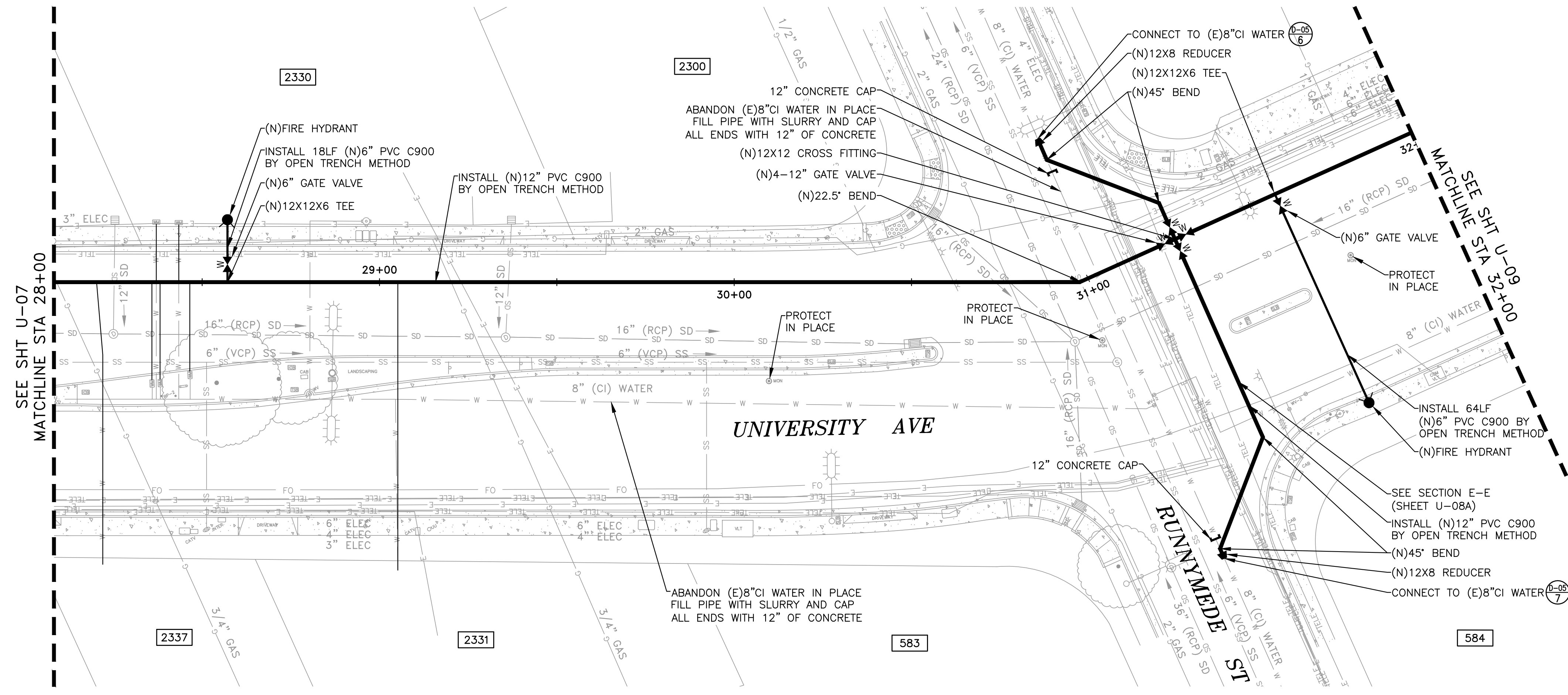
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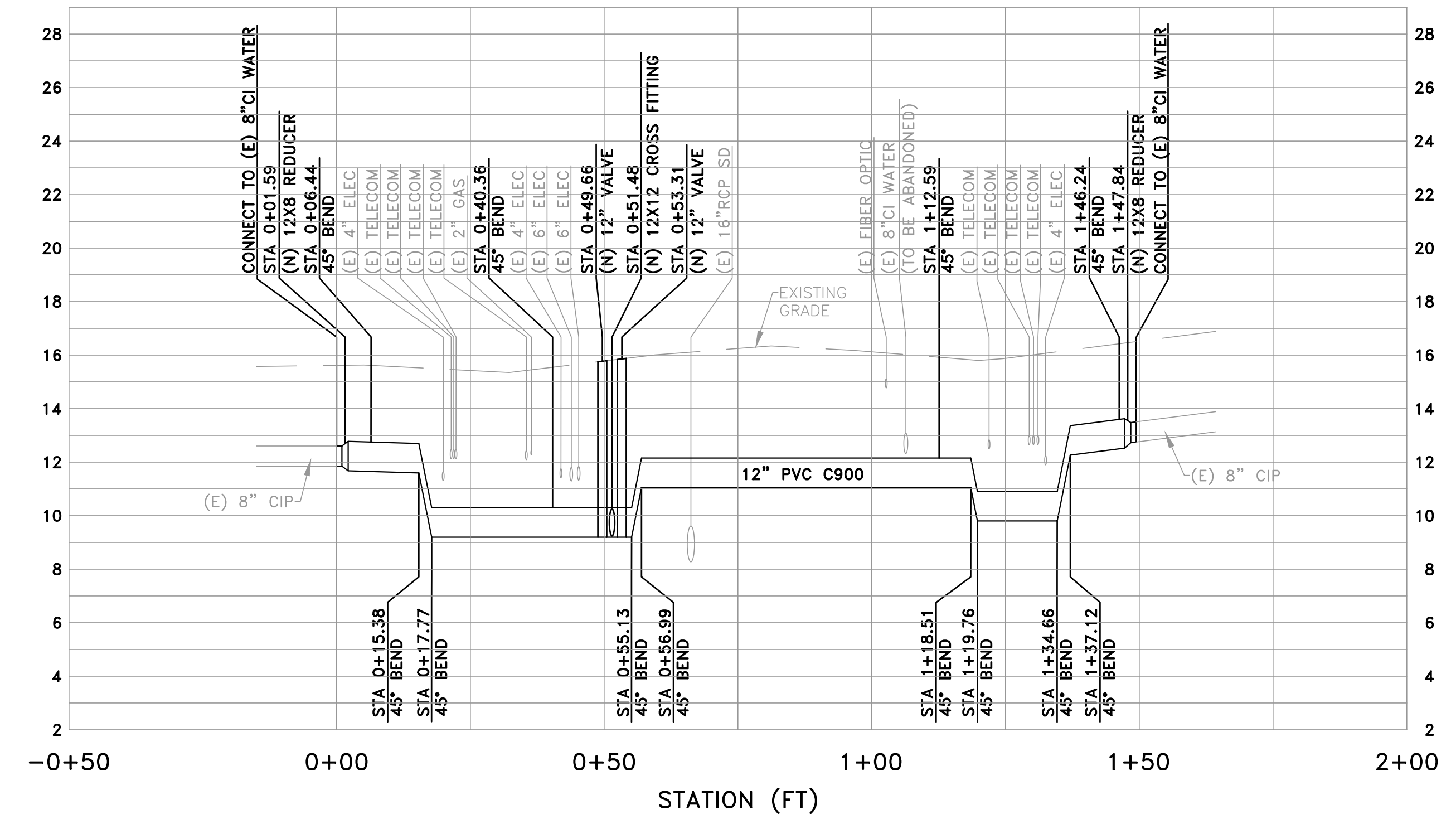
UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
CITY OF EAST PALO ALTO
PLAN & PROFILE - UNIVERSITY AVE
STA 28+00 TO 32+00

SHEET
U-08
 JOB NO.
221005

DRAWING NAME: Z:\Projects\221 City of East Palo Alto\005_12inch Transmission Watermain\AAA Latest\utility plan - university.dwg
 PLOT DATE: 07-21-23 PLOTTED BY: kyau



- UTILITY PLAN NOTES
- ALL NEW 12" WATER PIPE SHALL BE PVC C900.
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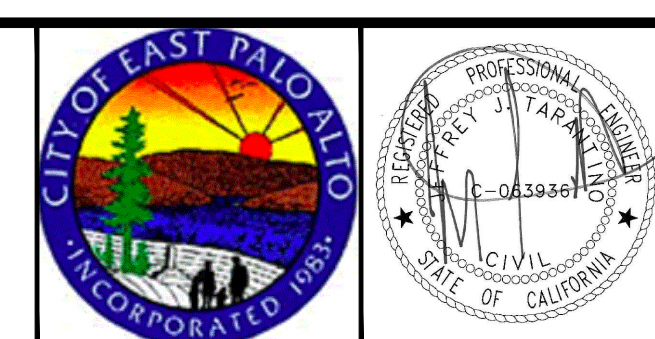


PROFILE VIEW
 HORIZ: 1" = 20'
 VERT: 1" = 4'

DATE:	7/21/23	4/14/23	90% SUBMITTAL (WEEKS ST)
SCALE:	AS NOTED	5/5/23	90% SUBMITTAL (UNIVERSITY AVE)
DESIGNED:	JJF	6/30/23	100% SUBMITTAL
DRAWN:	KMY	7/21/23	BID SET
CHECKED:	JJT		
PROJ. ENGR:	JJF		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D



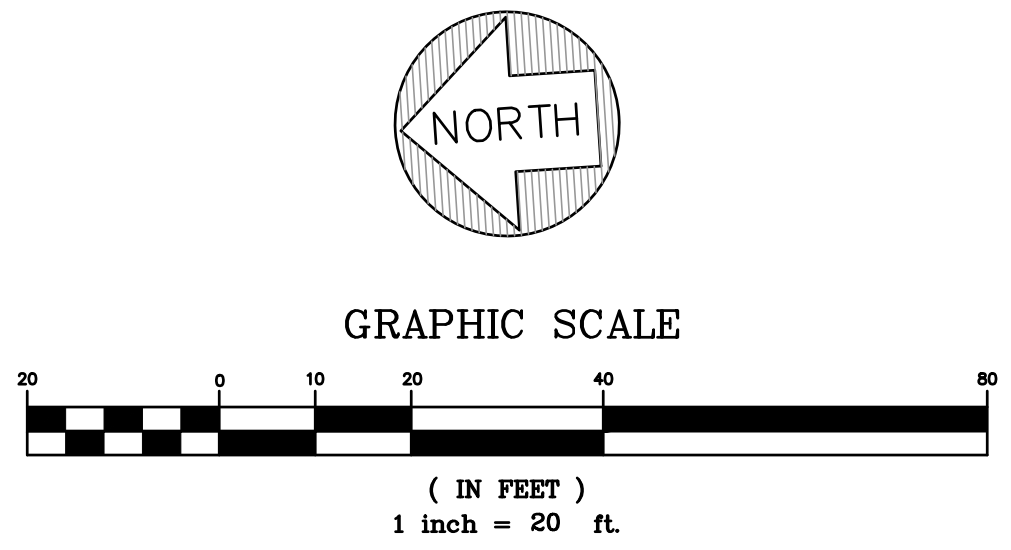
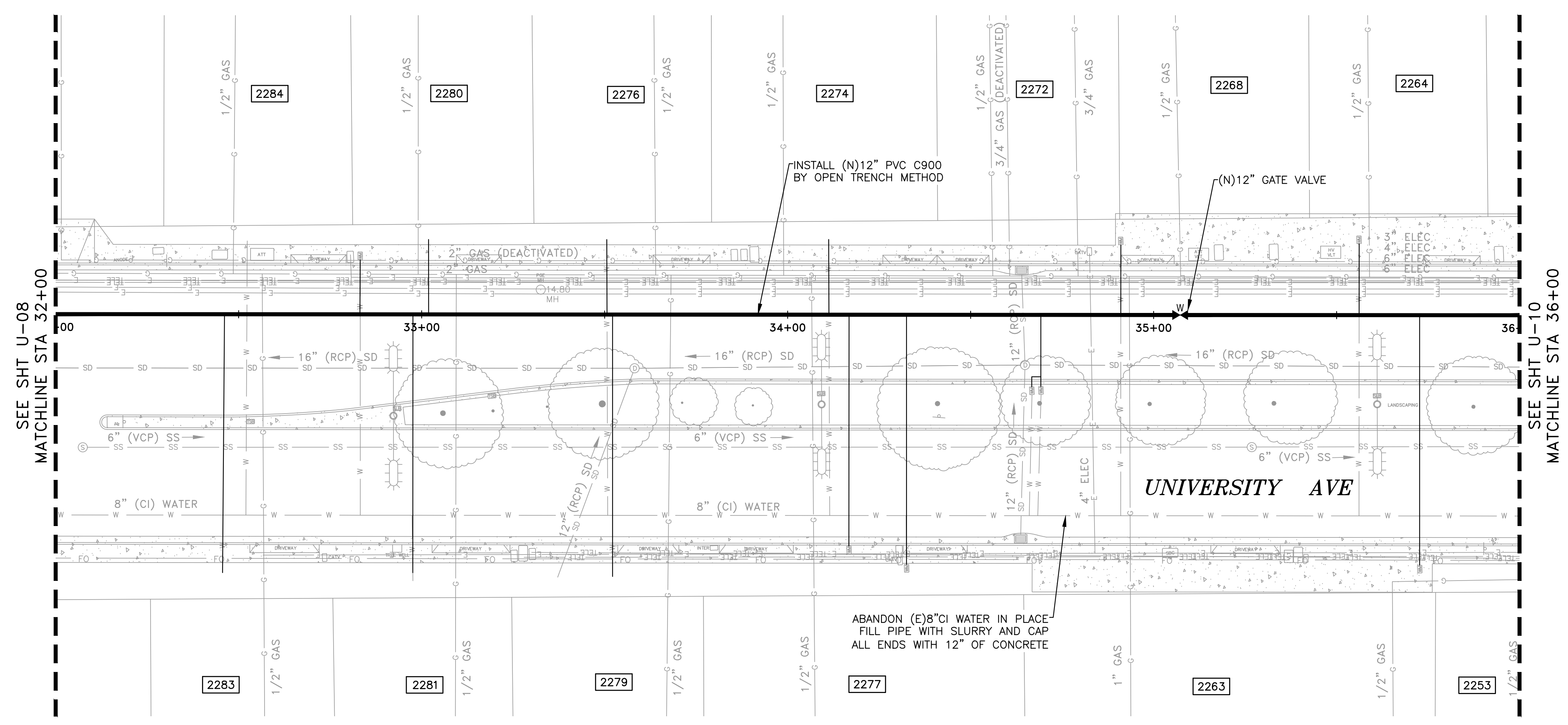
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 (415)534-7070 • Fax (650)344-9920 • www.freyerlaureta.com



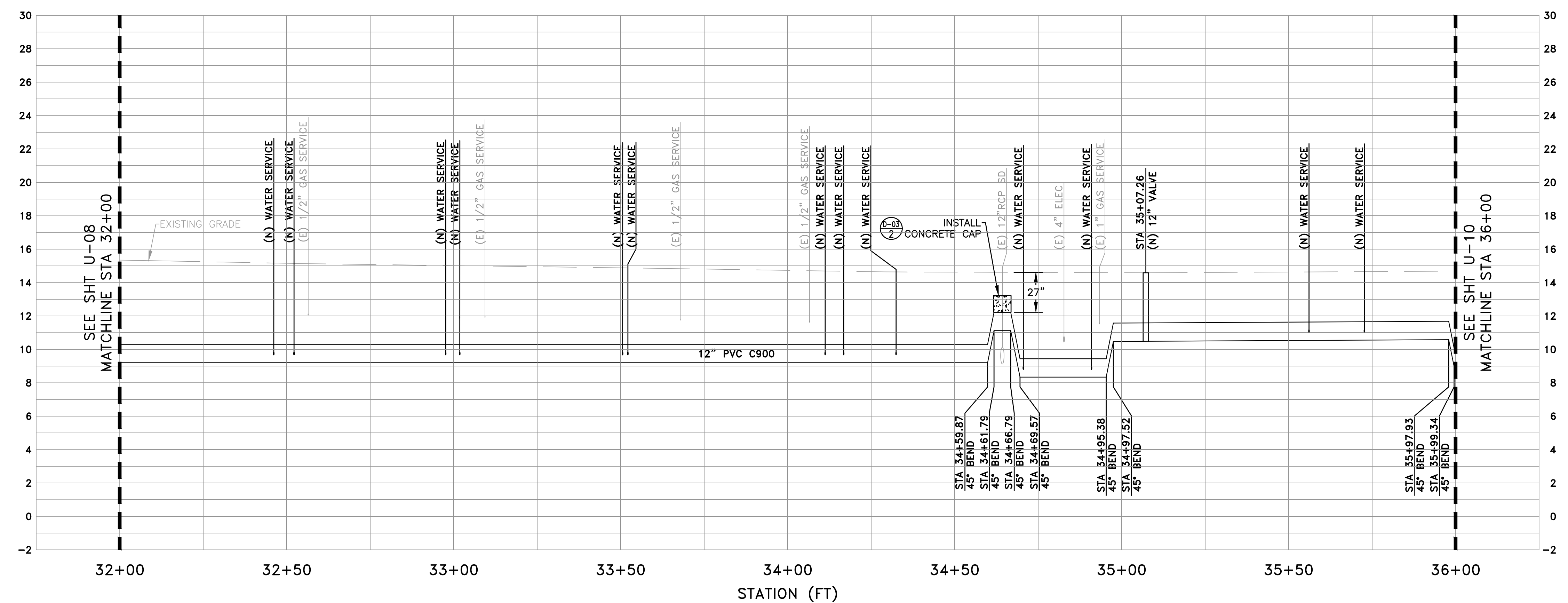
UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
CITY OF EAST PALO ALTO
PLAN & PROFILE - RUNNYMEDE ST
CROSS SECTION E-E

SHEET
U-08A
 JOB NO.
221005

DRAWING NAME: Z:\Projects\221 City of East Palo Alto\005_12inch Transmission Watermain\AAA Latest\Utility Plan - University.dwg
 PLOT DATE: 07-21-23 PLOTTED BY: kyau



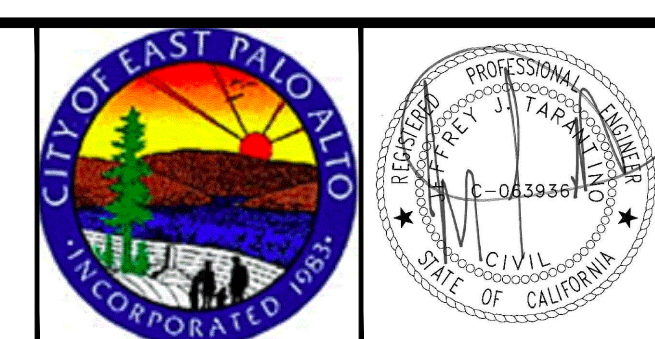
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DATE:	7/21/23	4/14/23	90% SUBMITTAL (WEKES ST)
SCALE:	AS NOTED	5/5/23	90% SUBMITTAL (UNIVERSITY AVE)
DESIGNED:	JJF	6/30/23	100% SUBMITTAL
DRAWN:	KMY	7/21/23	BID SET
CHECKED:	JJT		
PROJ. ENGR:	JJF		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D



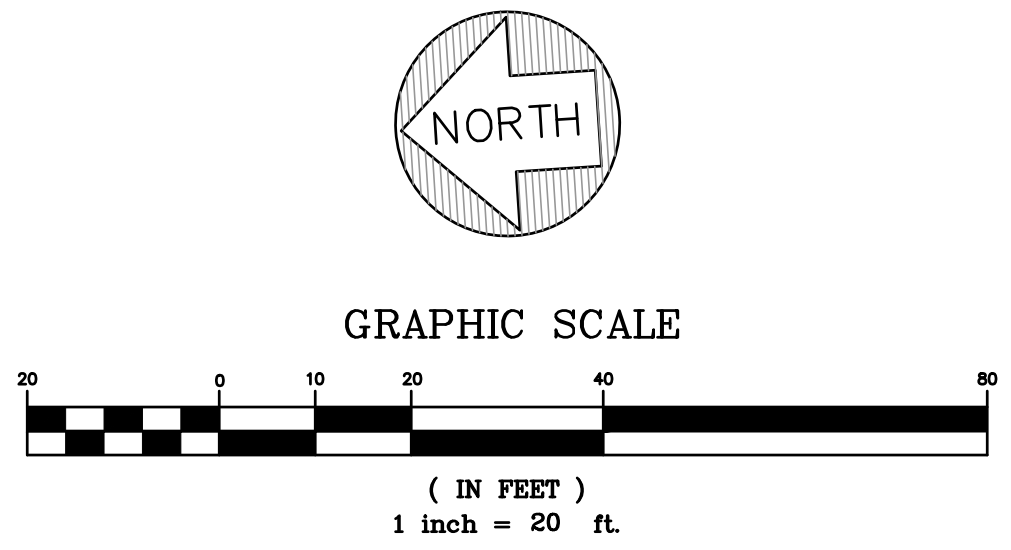
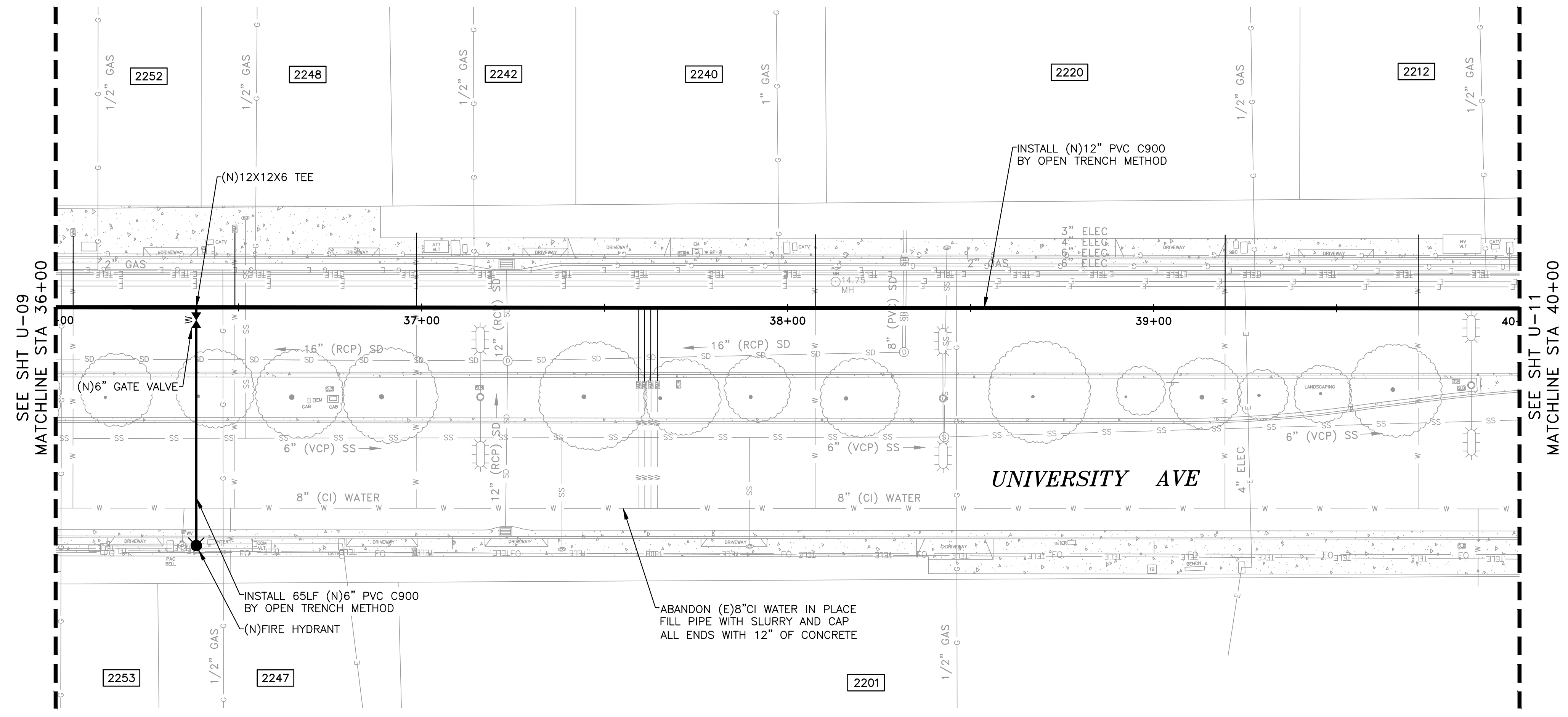
150 Executive Park Blvd. #4200 • San Francisco, CA 94134
 (415)534-7070 • Fax (650)344-9920 • www.freyerlaureta.com



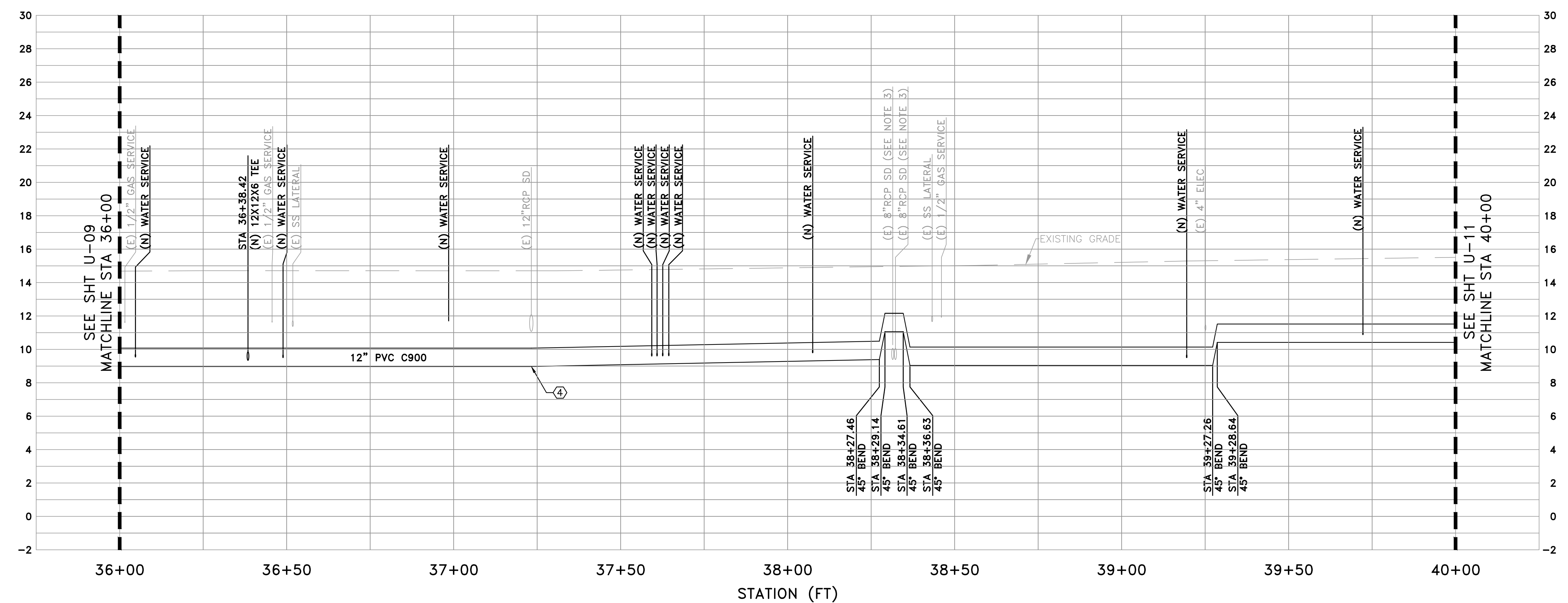
UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
CITY OF EAST PALO ALTO
PLAN & PROFILE - UNIVERSITY AVE
STA 32+00 TO 36+00

SHEET
U-09
 JOB NO.
221005

DRAWING NAME: Z:\Projects\221 City of East Palo Alto\005_12inch Transmission Watermain\AAA Latest\Utility Plan - University.dwg
 PLOT DATE: 07-21-23 PLOTTED BY: kyau



- UTILITY PLAN NOTES**
- ① ALL NEW 12" WATER PIPE SHALL BE PVC C900.
 - ② EXISTING UTILITY LOCATION AND DEPTH SHALL BE CONFIRMED BY CONTRACTOR ON SITE PRIOR TO BEGINNING WORK.
 - ③ UTILITY DEPTH VERIFIED BY POTHOLING. SEE ATTACHMENT E OF THE SPECIFICATIONS FOR POTHOLING REPORT BY BESS TESTLAB DATED 4/6/2021 AND POTHOLING REPORT BY EXARO DATED 5/31/2023.
 - ④ STATE VARIANCE REQUIRED AT LOCATIONS WHERE NEW WATER PIPE CANNOT BE CONSTRUCTED ABOVE SANITARY SEWER AND STORM DRAIN CROSSINGS.
 - ⑤ ADA CURB RAMPS THAT HAVE BEEN DISTURBED OR DAMAGED SHALL BE RESTORED OR REPLACED.
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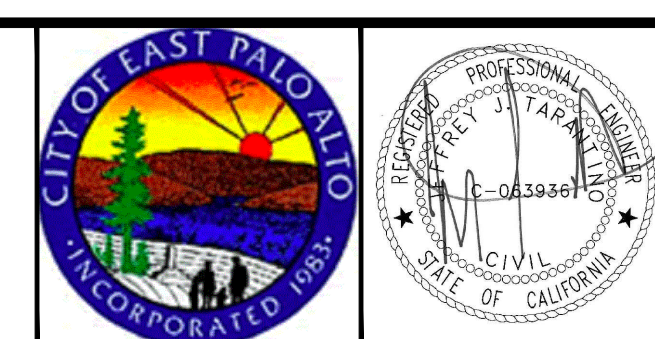


PROFILE VIEW
 HORIZ: 1" = 20'
 VERT: 1" = 4'

DATE:	7/21/23	4/14/23	90% SUBMITTAL (WEEKS ST)
SCALE:	AS NOTED	5/5/23	90% SUBMITTAL (UNIVERSITY AVE)
DESIGNED:	JJF	6/30/23	100% SUBMITTAL
DRAWN:	KMY	7/21/23	BID SET
CHECKED:	JJT		
PROJ. ENGR:	JJF		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D



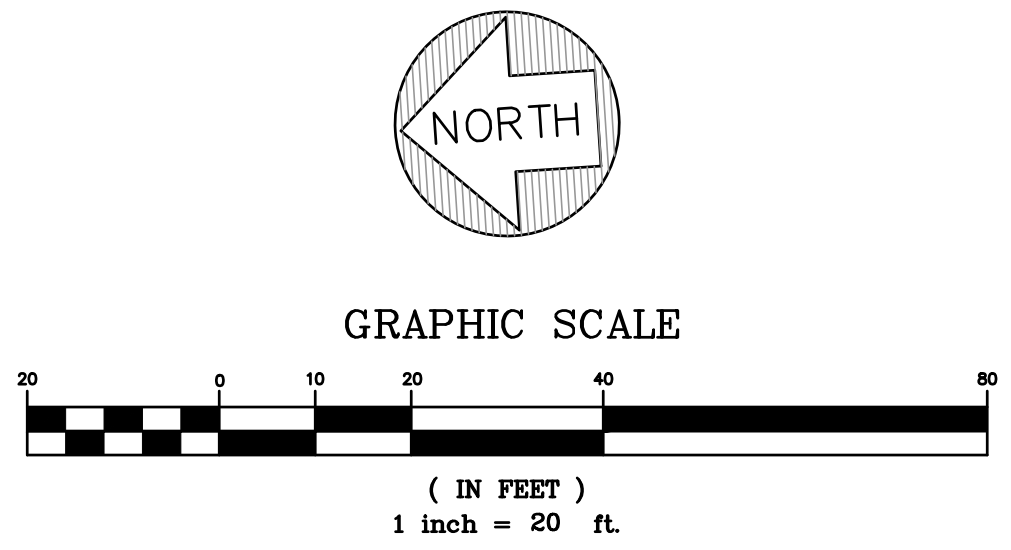
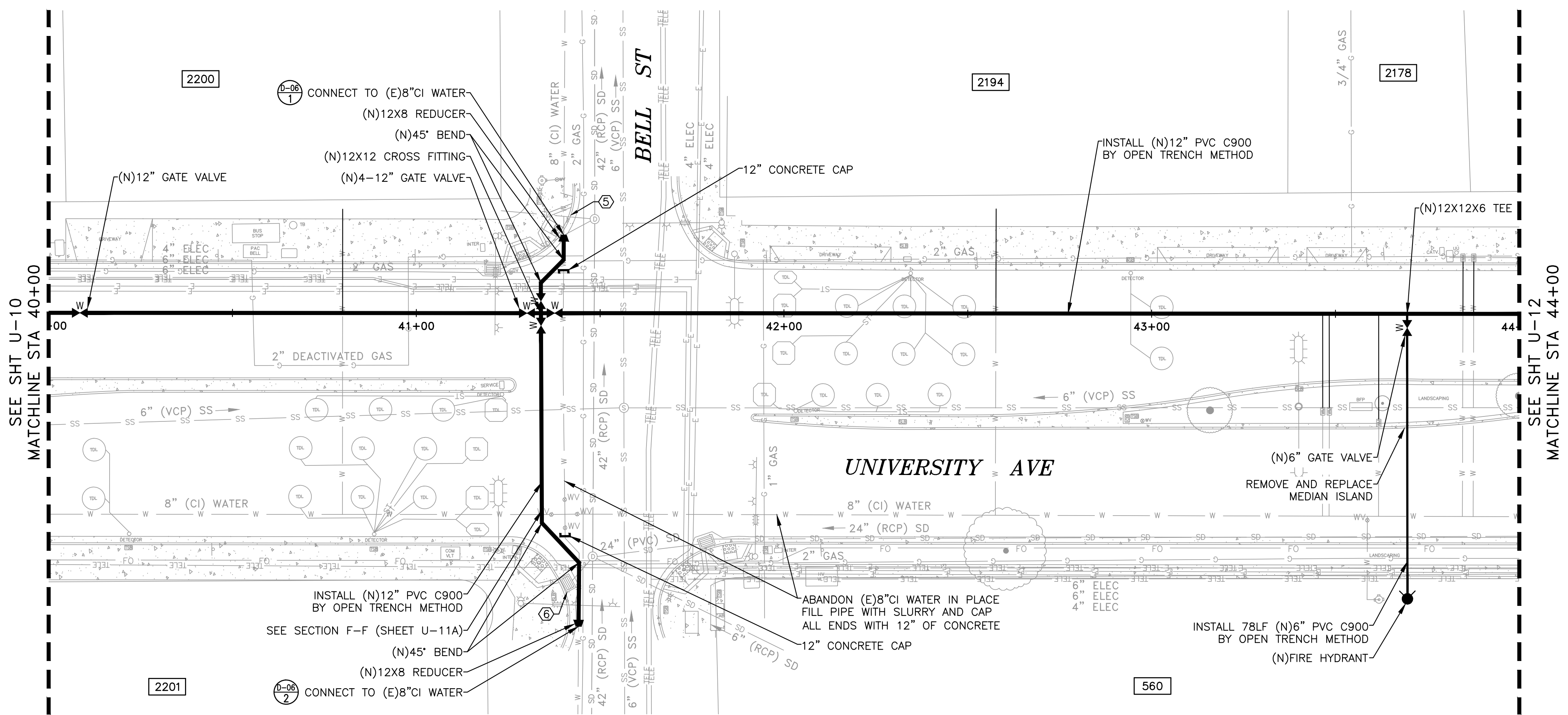
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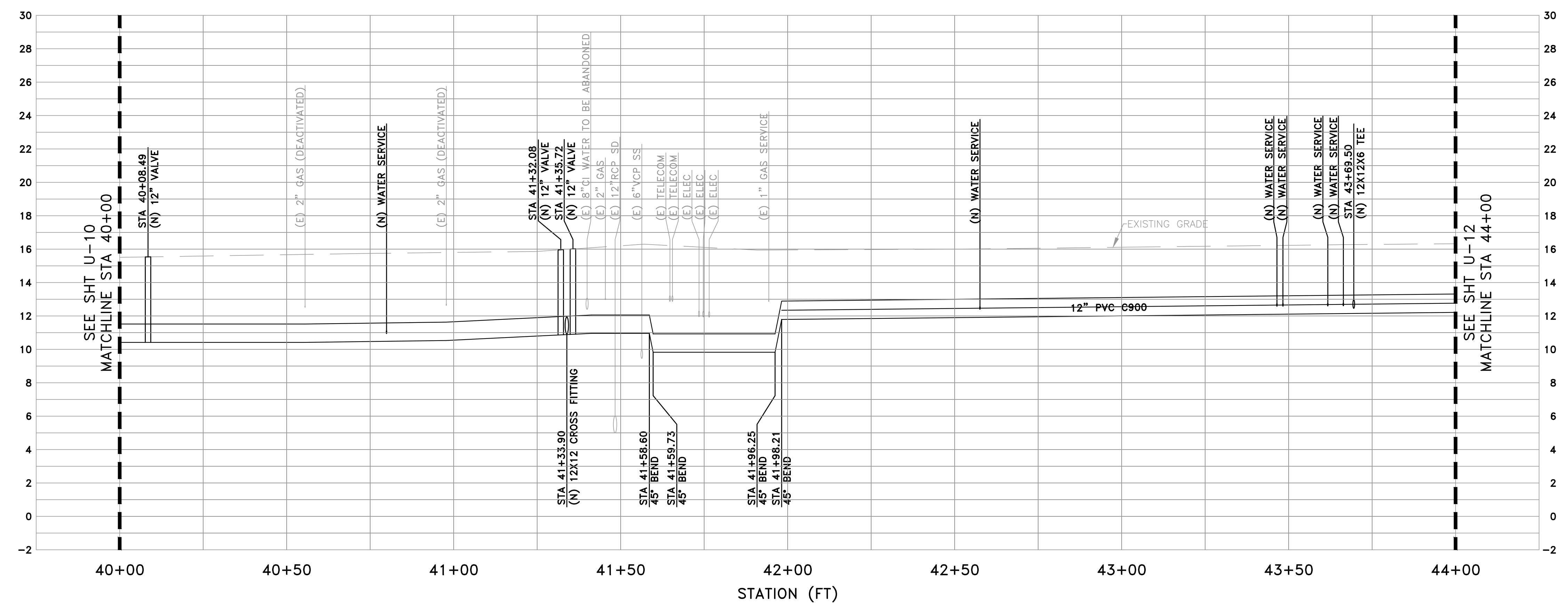
UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
 CITY OF EAST PALO ALTO
PLAN & PROFILE - UNIVERSITY AVE
 STA 36+00 TO 40+00

SHEET
U-10
 JOB NO.
221005

DRAWING NAME: Z:\Projects\221 City of East Palo Alto\005_12inch Transmission Watermain\AAA Latest\Utility Plan - University.dwg
 PLOT DATE: 07-21-23 PLOTTED BY: kyau



- UTILITY PLAN NOTES**
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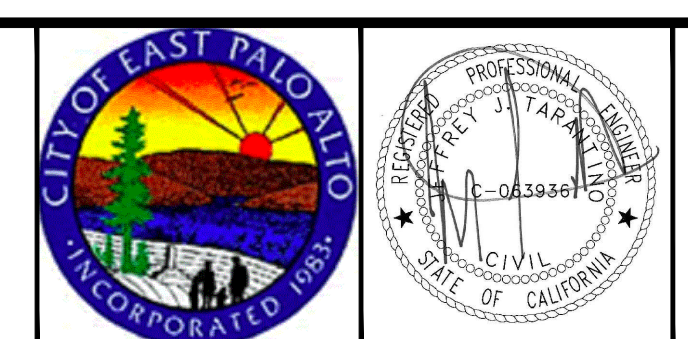


PROFILE VIEW
 HORIZ: 1" = 20'
 VERT: 1" = 4'

DATE:	7/21/23	4/14/23	90% SUBMITTAL (WEKES ST)
SCALE:	AS NOTED	5/5/23	90% SUBMITTAL (UNIVERSITY AVE)
DESIGNED:	JJF	6/30/23	100% SUBMITTAL
DRAWN:	KMY	7/21/23	BID SET
CHECKED:	JJT		
PROJ. ENGR:	JJF		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D



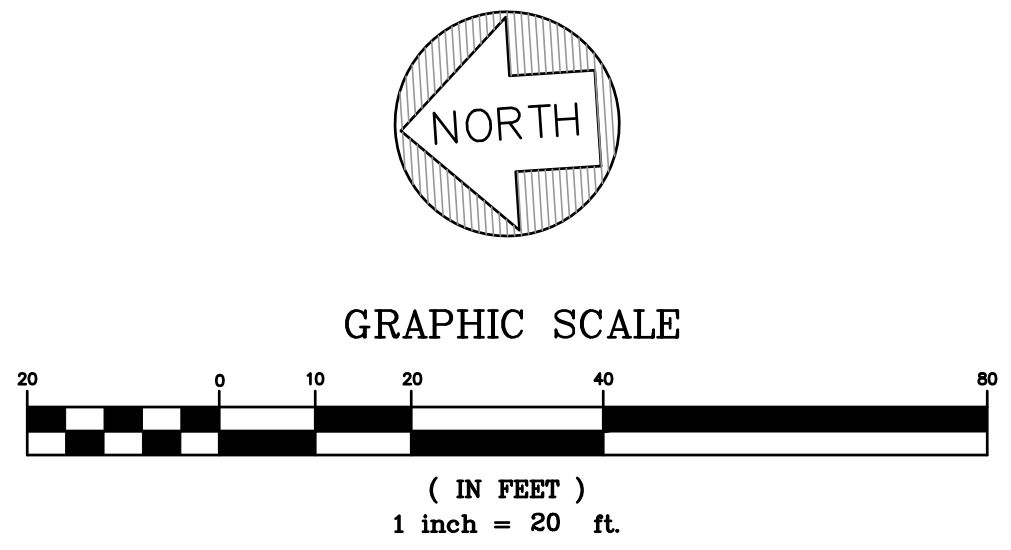
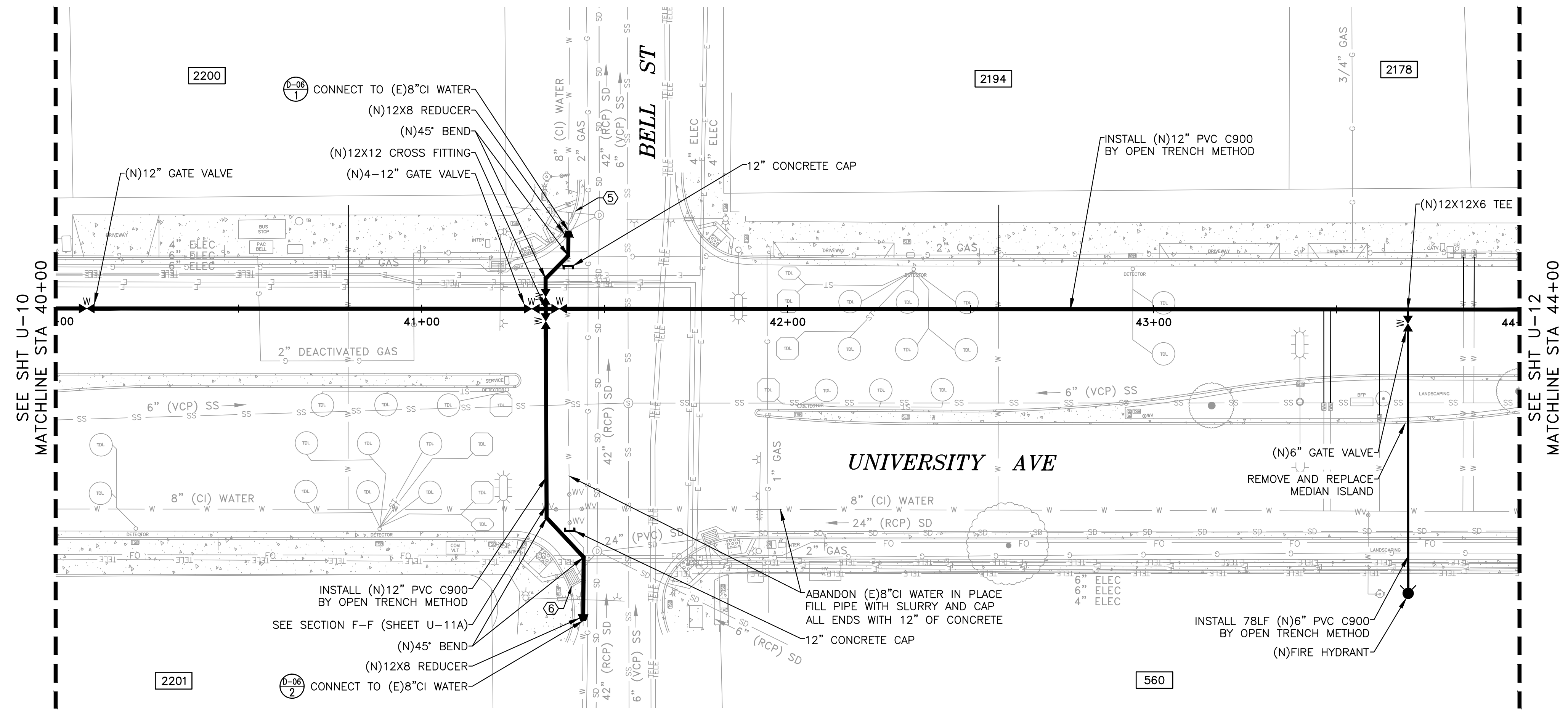
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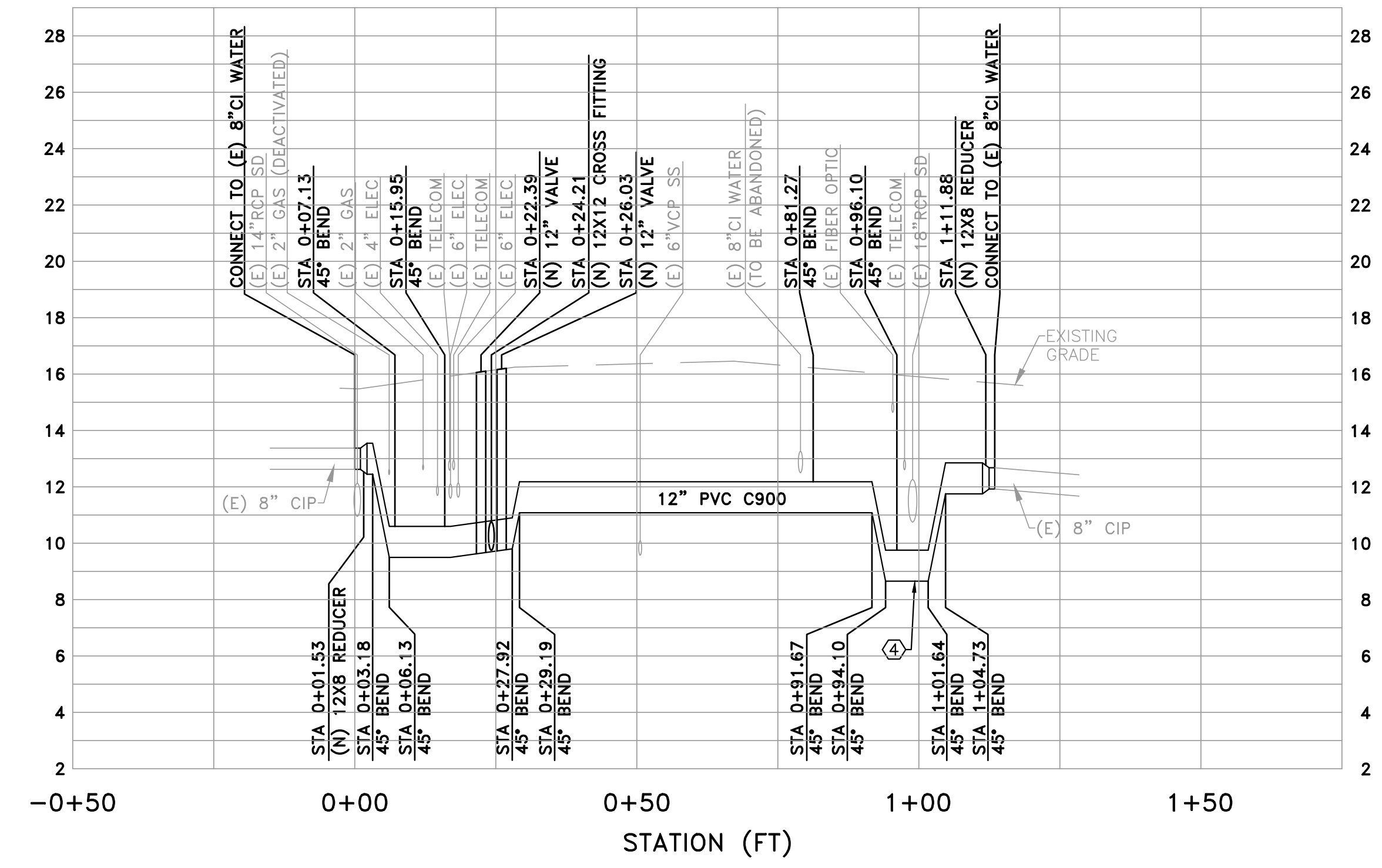
UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
CITY OF EAST PALO ALTO
PLAN & PROFILE - UNIVERSITY AVE
STA 40+00 TO 44+00

SHEET
U-11
 JOB NO.
221005

DRAWING NAME: Z:\Projects\221 City of East Palo Alto\005_12inch Transmission Watermain\AAA Latest\utility plan - university.dwg
 PLOT DATE: 07-21-23 PLOTTED BY: kyau



- UTILITY PLAN NOTES**
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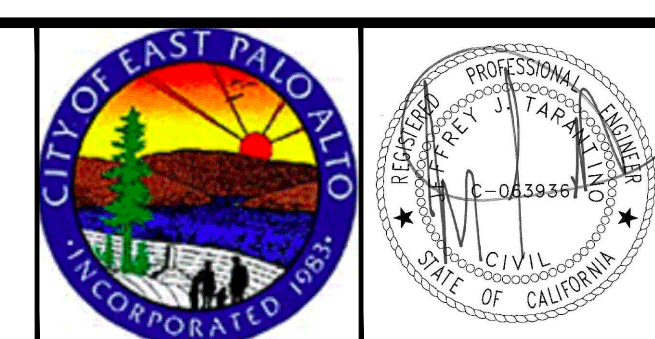
SECTION F-F

PROFILE VIEW
 HORIZ: 1" = 20'
 VERT: 1" = 4'

DATE:	7/21/23	4/14/23	90% SUBMITTAL (WEEKS ST)
SCALE:	AS NOTED	5/5/23	90% SUBMITTAL (UNIVERSITY AVE)
DESIGNED:	JJF	6/30/23	100% SUBMITTAL
DRAWN:	KMY	7/21/23	BID SET
CHECKED:	JJT		
PROJ. ENGR:	JJF		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D



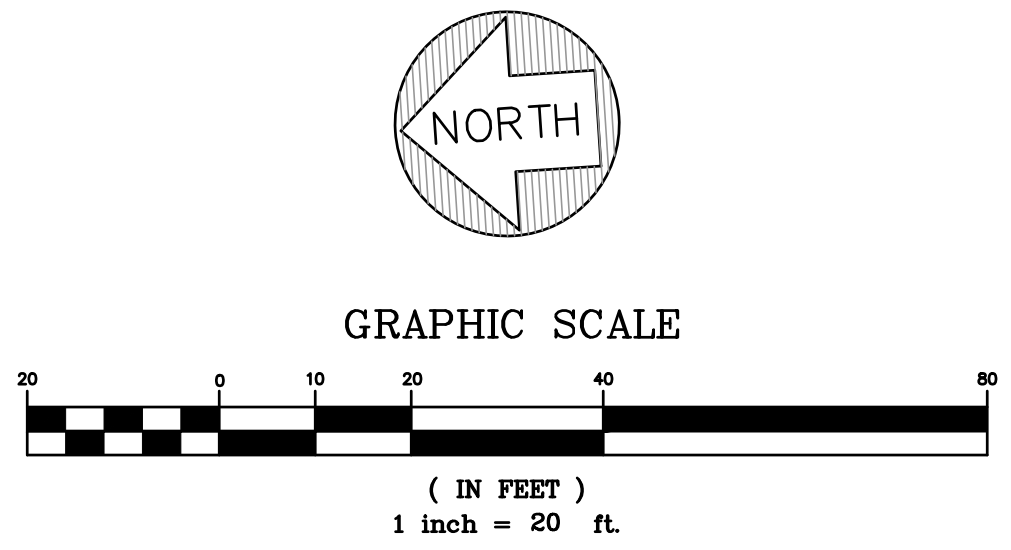
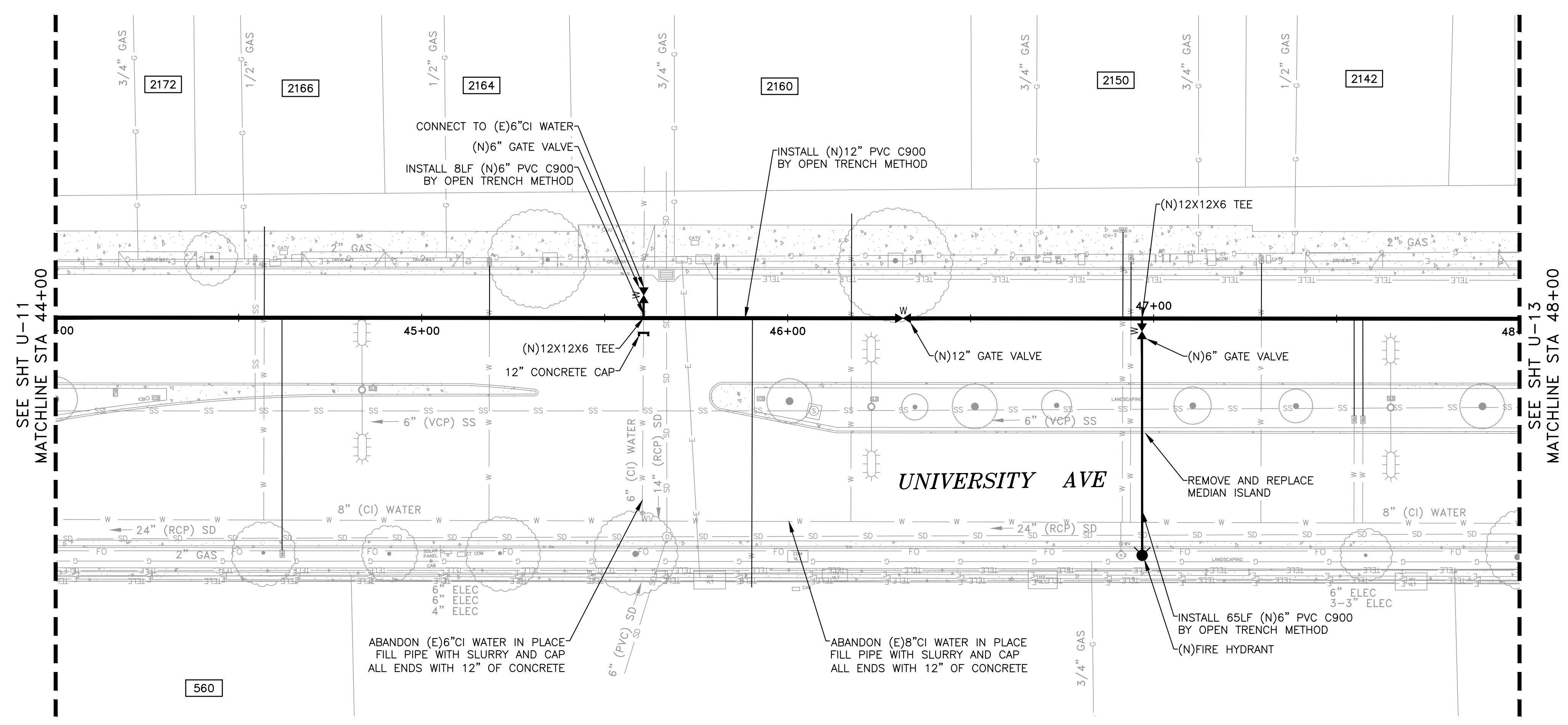
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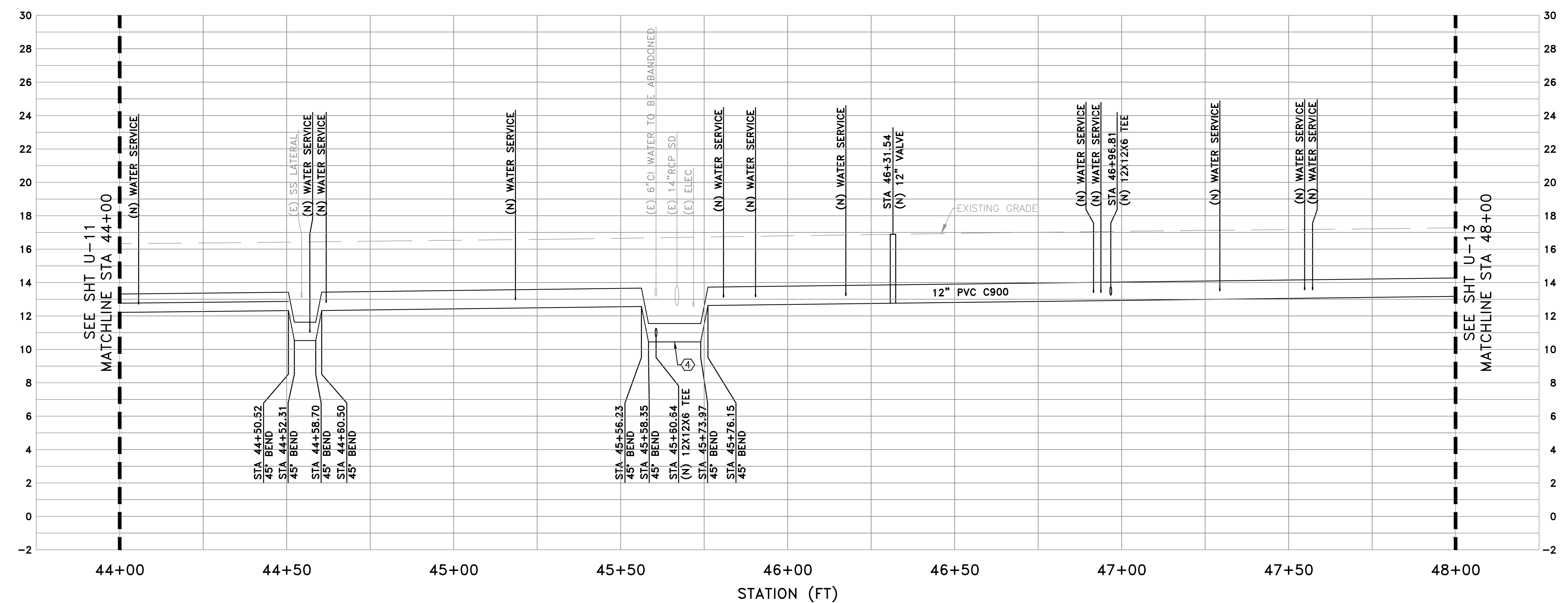
UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
CITY OF EAST PALO ALTO
PLAN & PROFILE - BELL ST
CROSS SECTION F-F

SHEET
U-11A
 JOB NO.
221005

DRAWING NAME: Z:\Projects\221 City of East Palo Alto\005_12inch Transmission Watermain\AAA Latest\Utility Plan - University.dwg
 PLOT DATE: 07-21-23 PLOTTED BY: kyau



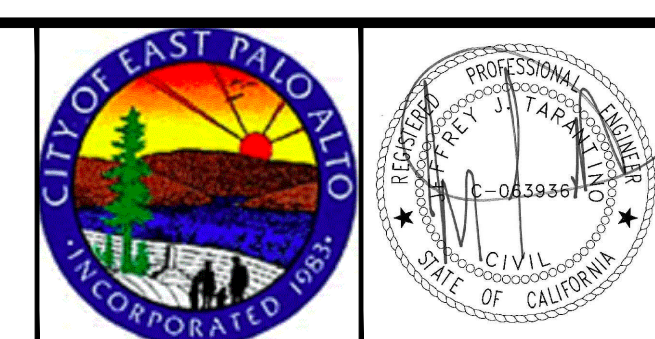
- UTILITY PLAN NOTES
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DATE:	7/21/23	4/14/23	90% SUBMITTAL (WEKES ST)
SCALE:	AS NOTED	5/5/23	90% SUBMITTAL (UNIVERSITY AVE)
DESIGNED:	JJF	6/30/23	100% SUBMITTAL
DRAWN:	KMY	7/21/23	BID SET
CHECKED:	JJT		
PROJ. ENGR:	JJF		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D



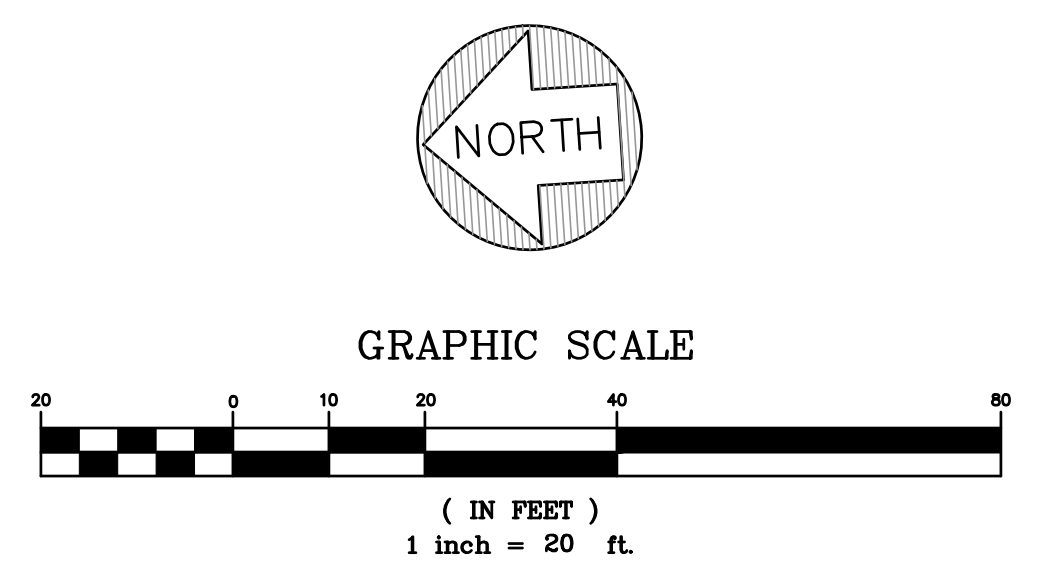
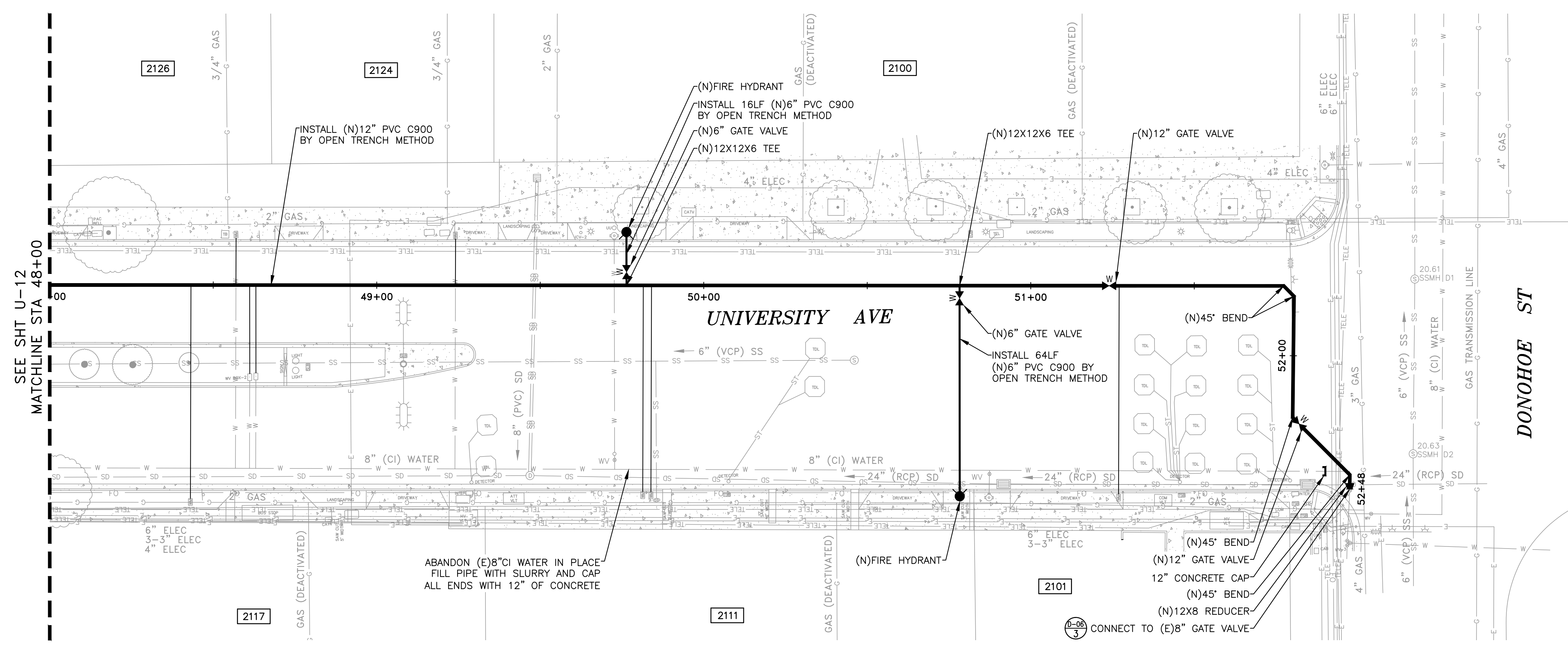
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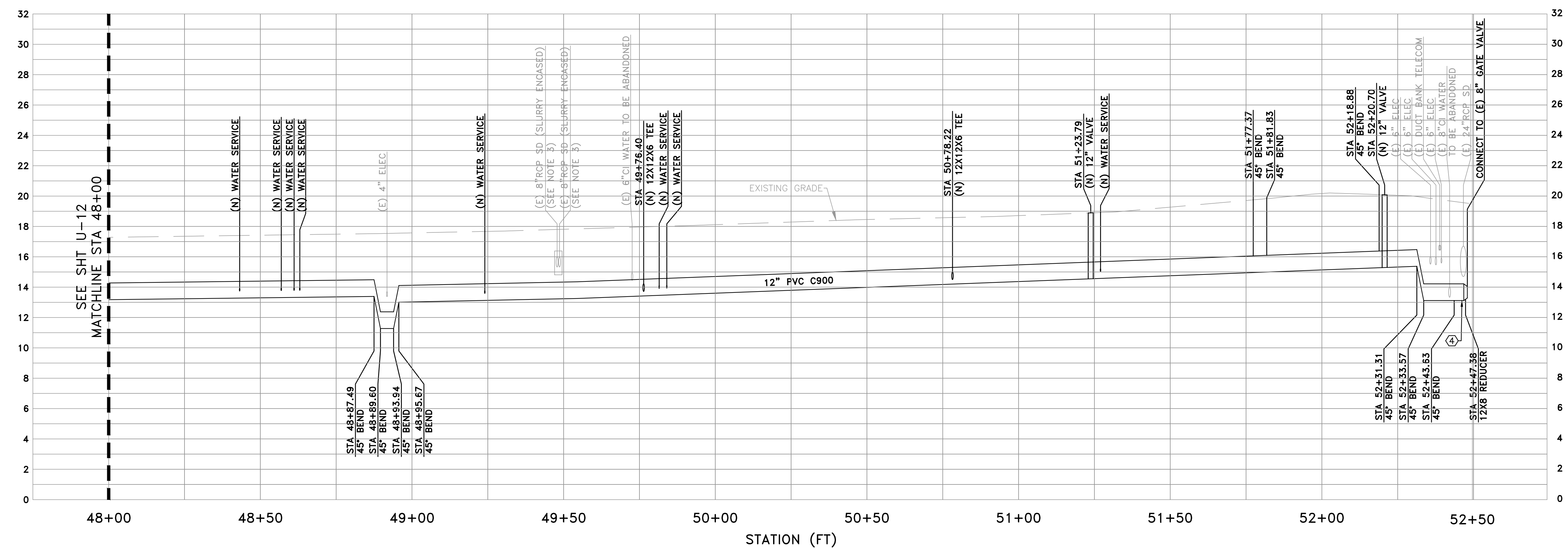
UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
CITY OF EAST PALO ALTO
PLAN & PROFILE - UNIVERSITY AVE
STA 44+00 TO 48+00

SHEET
U-12
 JOB NO.
221005

DRAWING NAME: Z:\Projects\221 City of East Palo Alto\005_12inch Transmission Watermain\AAA Latest\Utility Plan - University.dwg
 PLOT DATE: 07-21-23 PLOTTED BY: kyu



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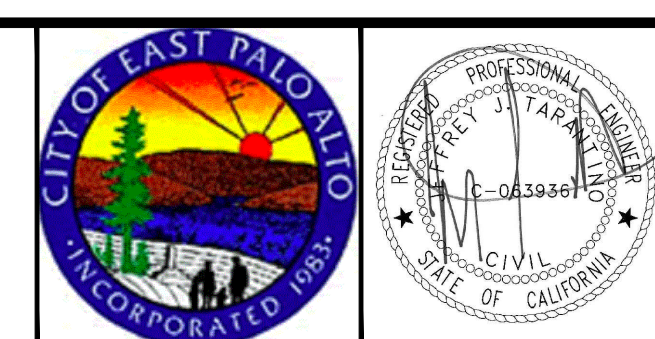


PROFILE VIEW
 HORIZ: 1" = 20'
 VERT: 1" = 4'

DATE:	7/21/23	4/14/23	90% SUBMITTAL (WEEKS ST)
SCALE:	AS NOTED	5/5/23	90% SUBMITTAL (UNIVERSITY AVE)
DESIGNED:	JJF	6/30/23	100% SUBMITTAL
DRAWN:	KMY	7/21/23	BID SET
CHECKED:	JJT		
PROJ. ENGR:	JJF		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D



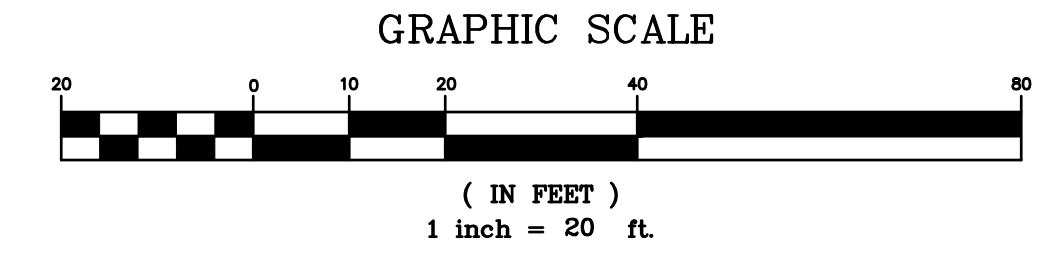
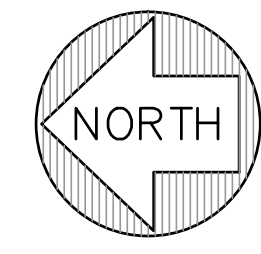
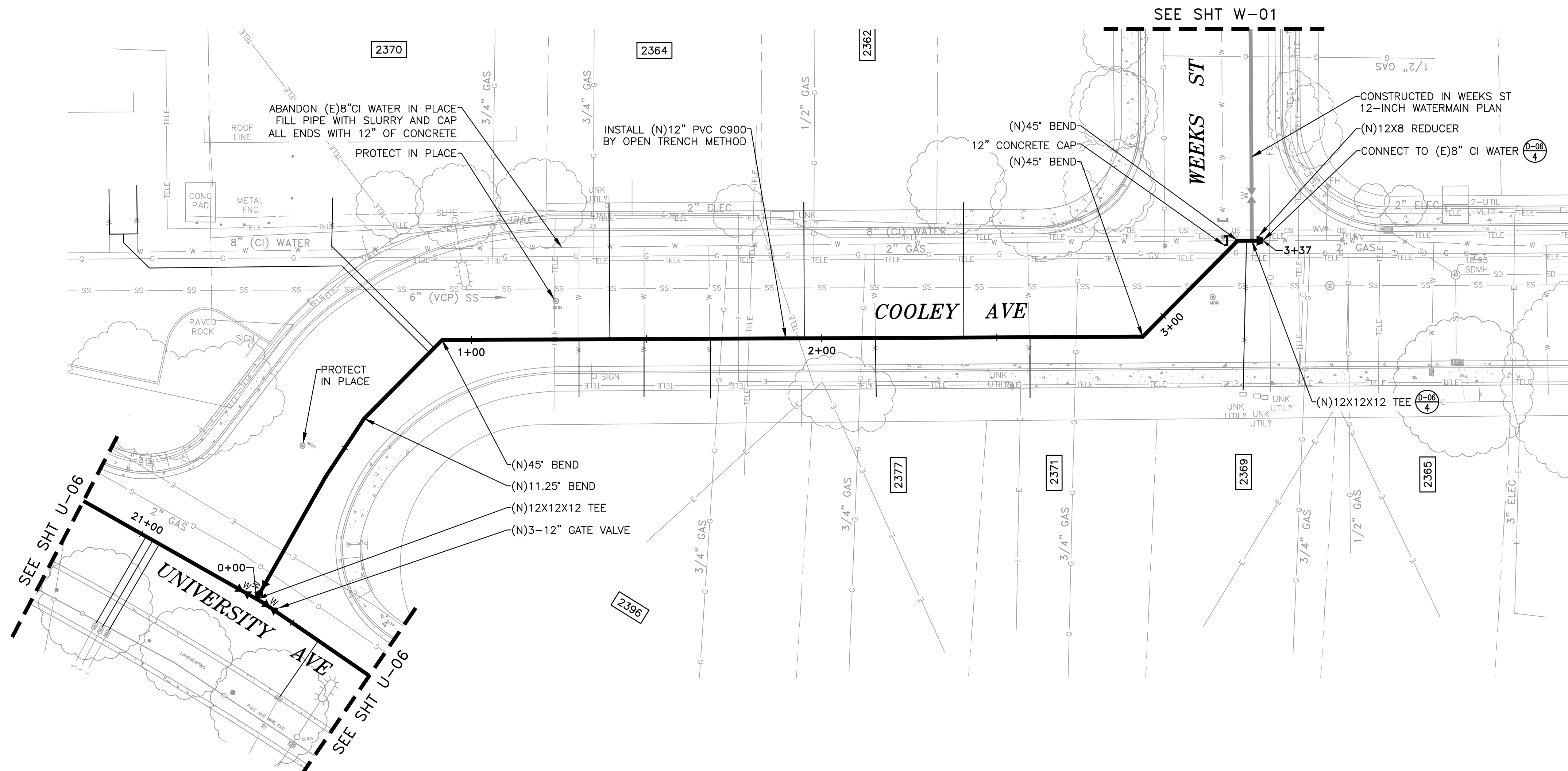
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UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
CITY OF EAST PALO ALTO
PLAN & PROFILE - UNIVERSITY AVE
STA 48+00 TO 52+50

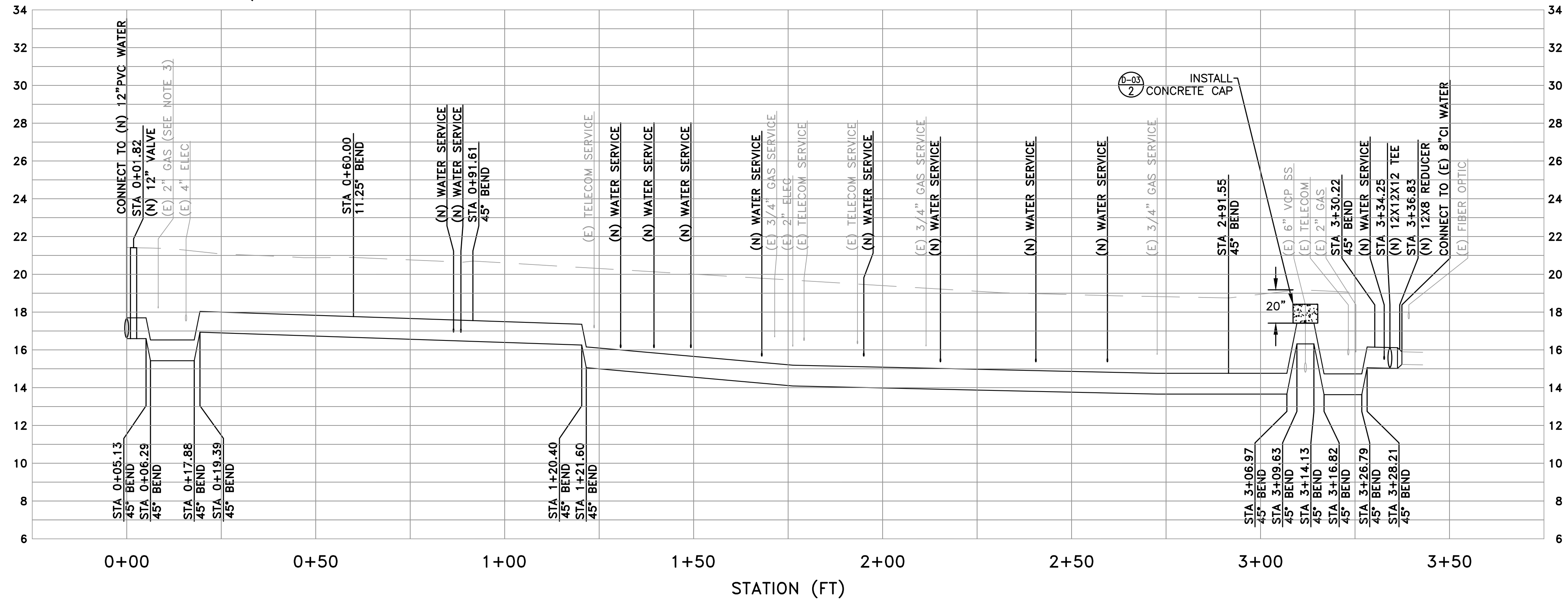
SHEET
U-13
 JOB NO.
221005

DRAWING NAME: Z:\Projects\21 City of East Palo Alto\005_12inch Transmission Watermain\AAA Latest\utility plan - university.dwg
 PLOT DATE: 07-21-23 PLOTTED BY: kyau



UTILITY PLAN NOTES

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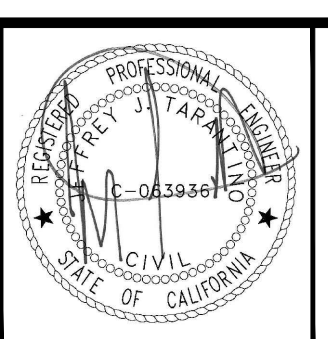
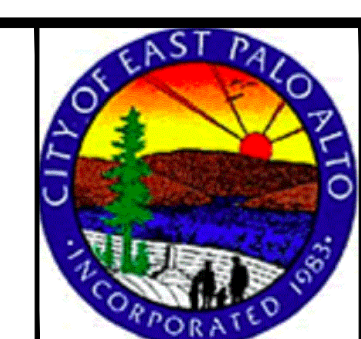


PROFILE VIEW
 HORIZ: 1" = 20'
 VERT: 1" = 4'

DATE:	7/21/23	4/14/23	90% SUBMITTAL (WEEKS ST)
SCALE:	AS NOTED	5/5/23	90% SUBMITTAL (UNIVERSITY AVE)
DESIGNED:	JJF	6/30/23	100% SUBMITTAL
DRAWN:	KMY	7/21/23	BID SET
CHECKED:	JJT		
PROJ. ENGR:	JJF		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D



150 Executive Park Blvd. #4200 • San Francisco, CA 94134
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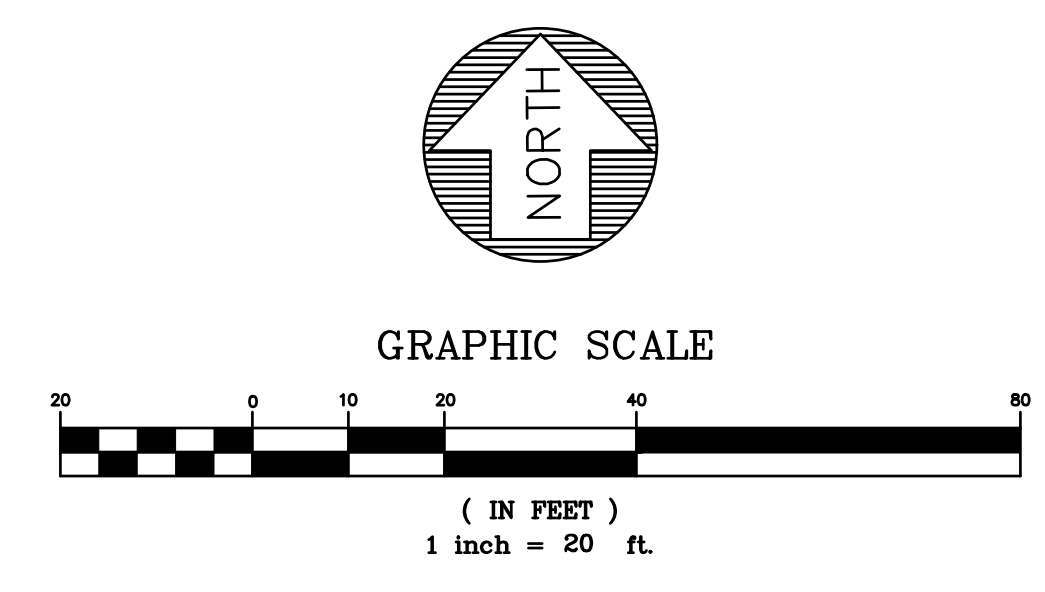
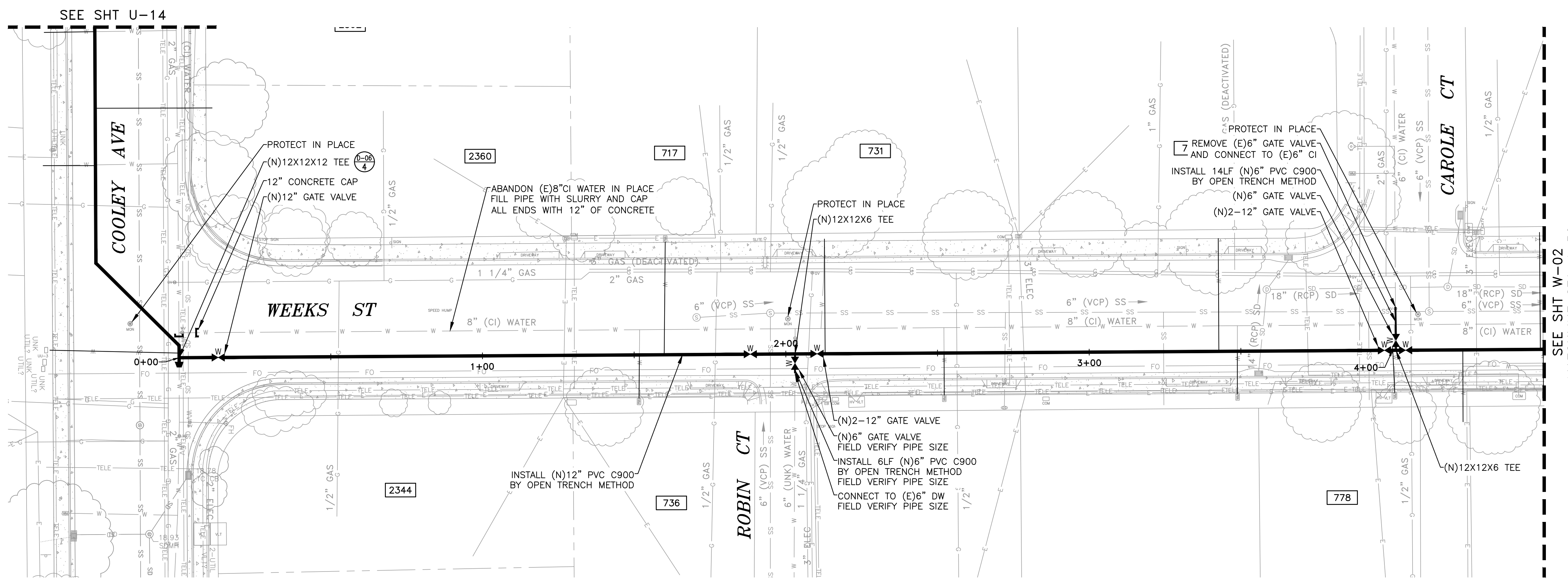


**UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
 CITY OF EAST PALO ALTO**

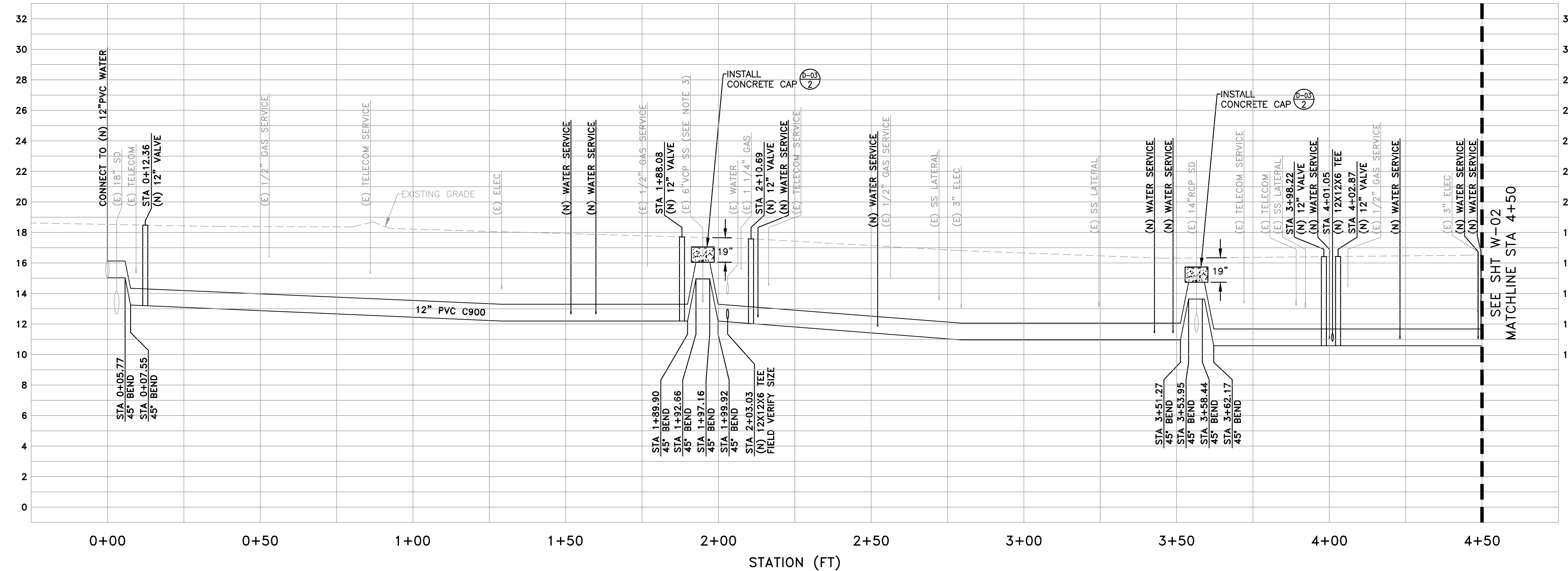
PLAN & PROFILE - COOLEY AVE

SHEET
U-14
 JOB NO.
221005

DRAWING NAME: Z:\Projects\221 City of East Palo Alto\005_12inch Transmission Watermain\AAA Latest\Utility Plan - Weeks.dwg
 PLOT DATE: 07-21-23
 PLOTTED BY: kyau



- UTILITY PLAN NOTES**
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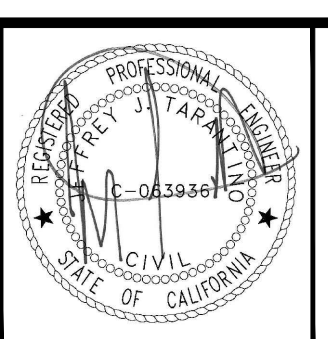


PROFILE VIEW
 HORIZ: 1" = 20'
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DATE:	7/21/23	4/14/23	90% SUBMITTAL (WEEKS ST)
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DESIGNED:	JJF	6/30/23	100% SUBMITTAL
DRAWN:	KMY	7/21/23	BID SET
CHECKED:	JJT		
PROJ. ENGR:	JJF		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D



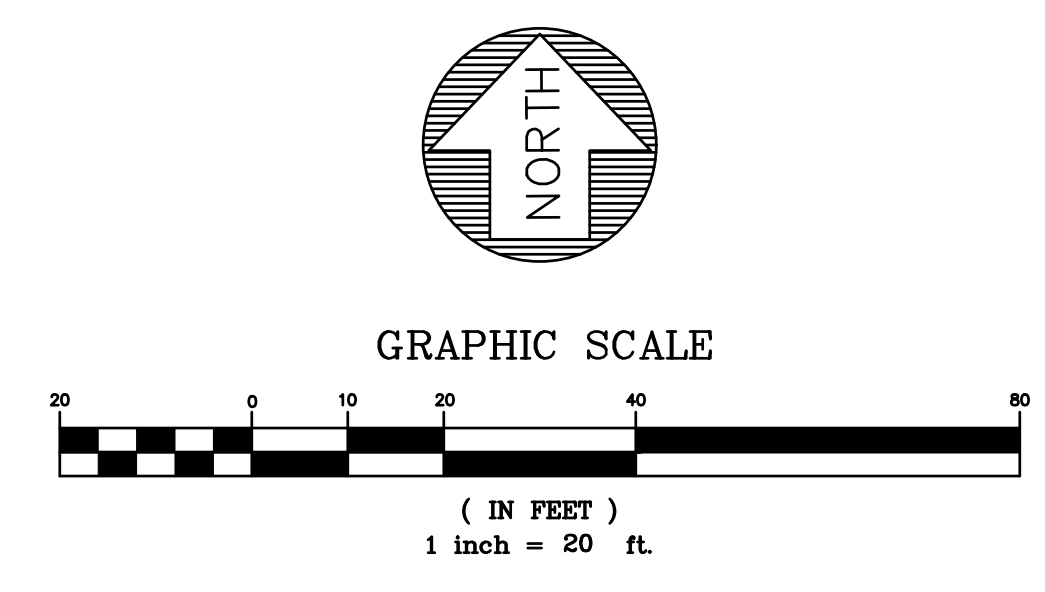
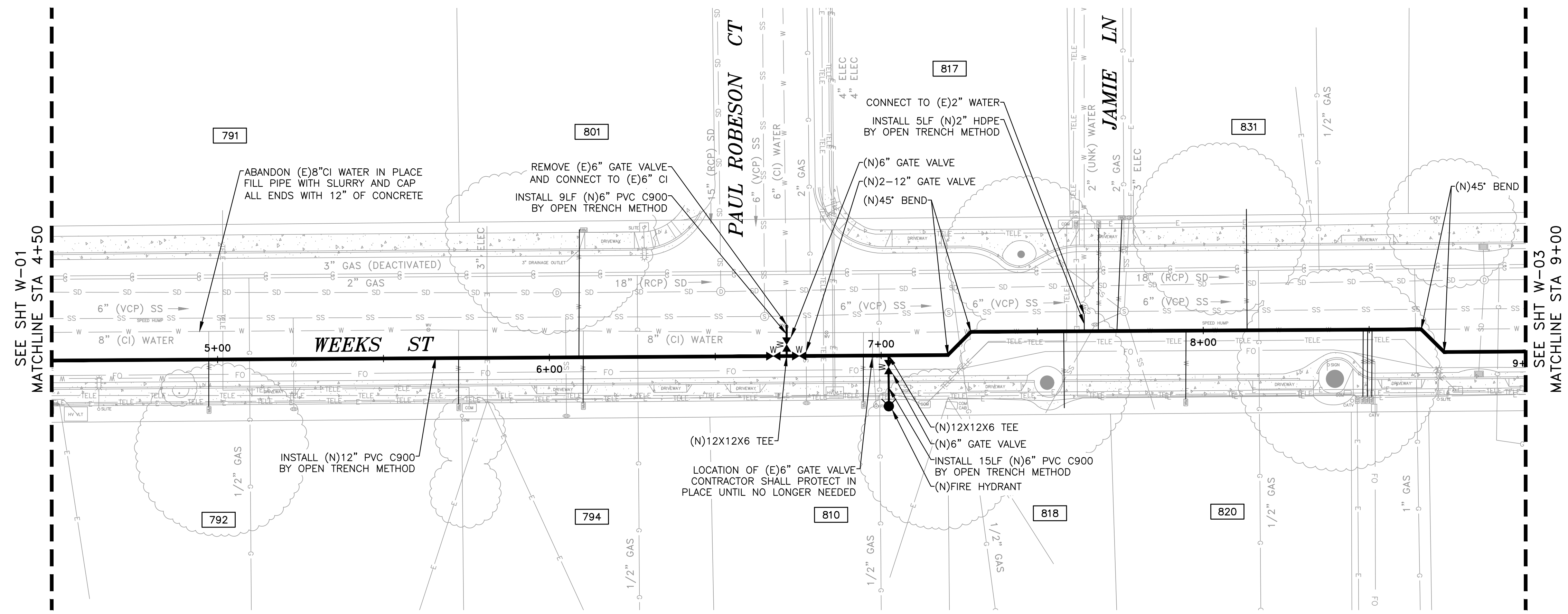
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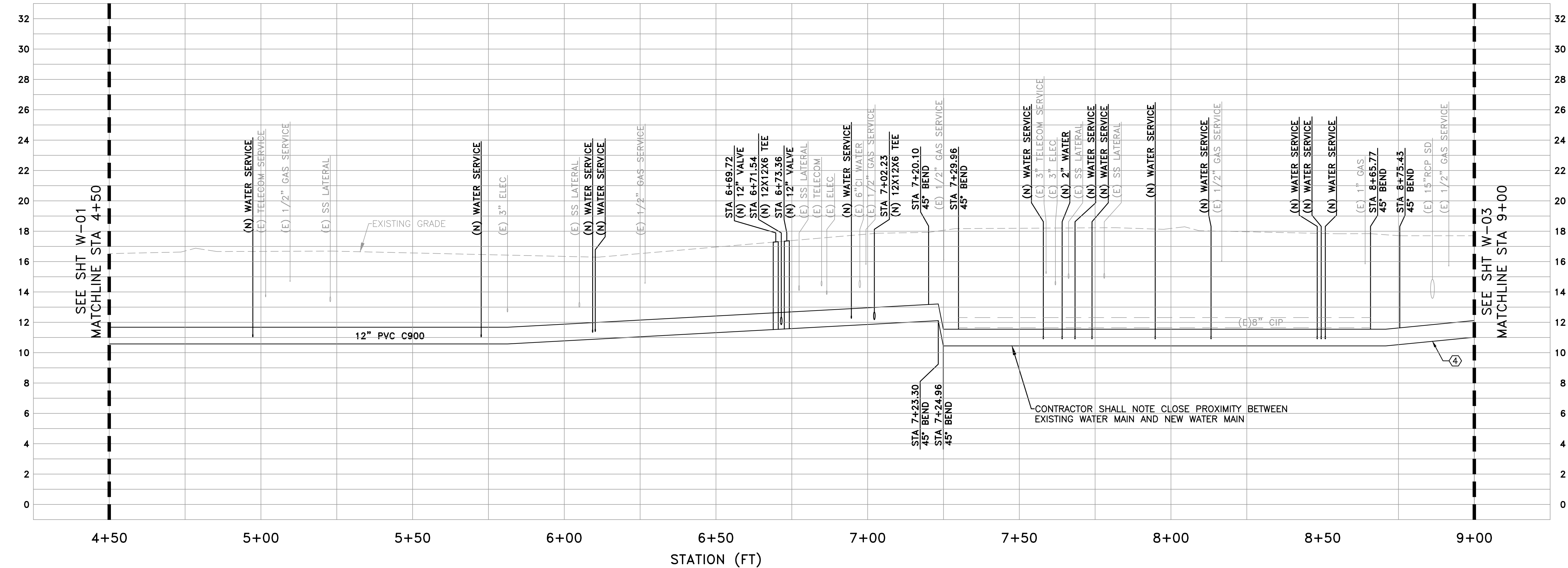
UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
CITY OF EAST PALO ALTO
PLAN & PROFILE - WEEKS ST
STA 0+00 TO 4+50

SHEET
W-01
 JOB NO.
221005

DRAWING NAME: Z:\Projects\221 City of East Palo Alto\005_12inch Transmission Watermain\AAA Latest\Utility Plan - Weeks.dwg
 PLOT DATE: 07-21-23 PLOTTED BY: kyau



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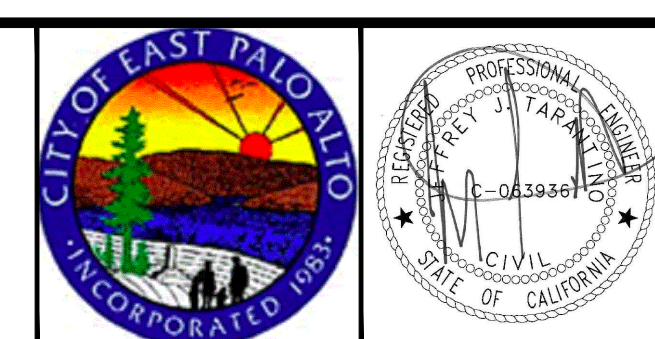


PROFILE VIEW
 HORIZ: 1" = 20'
 VERT: 1" = 4'

DATE:	7/21/23	4/14/23	90% SUBMITTAL (WEEKS ST)
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DESIGNED:	JJF	6/30/23	100% SUBMITTAL
DRAWN:	KMY	7/21/23	BID SET
CHECKED:	JJT		
PROJ. ENGR:	JJF		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D



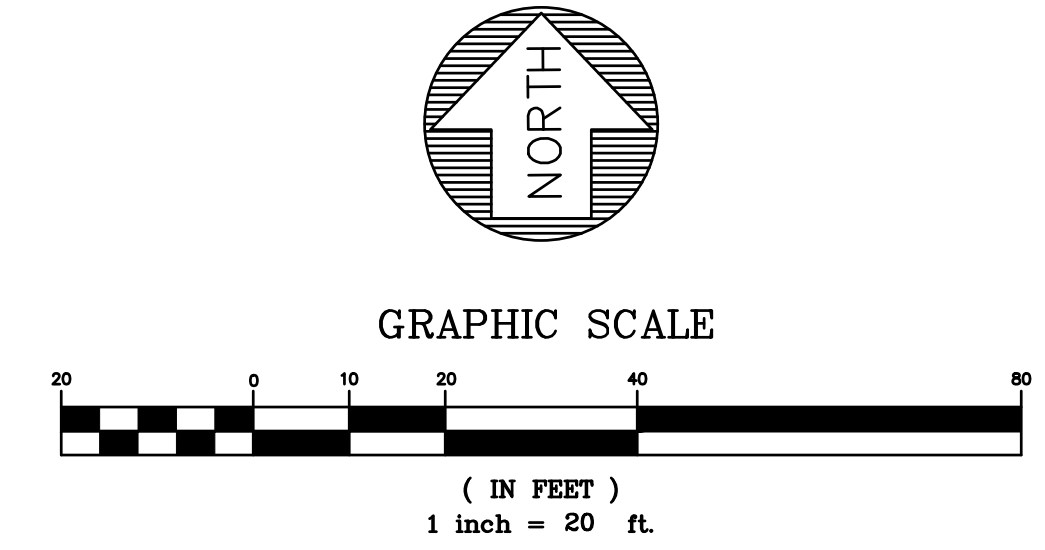
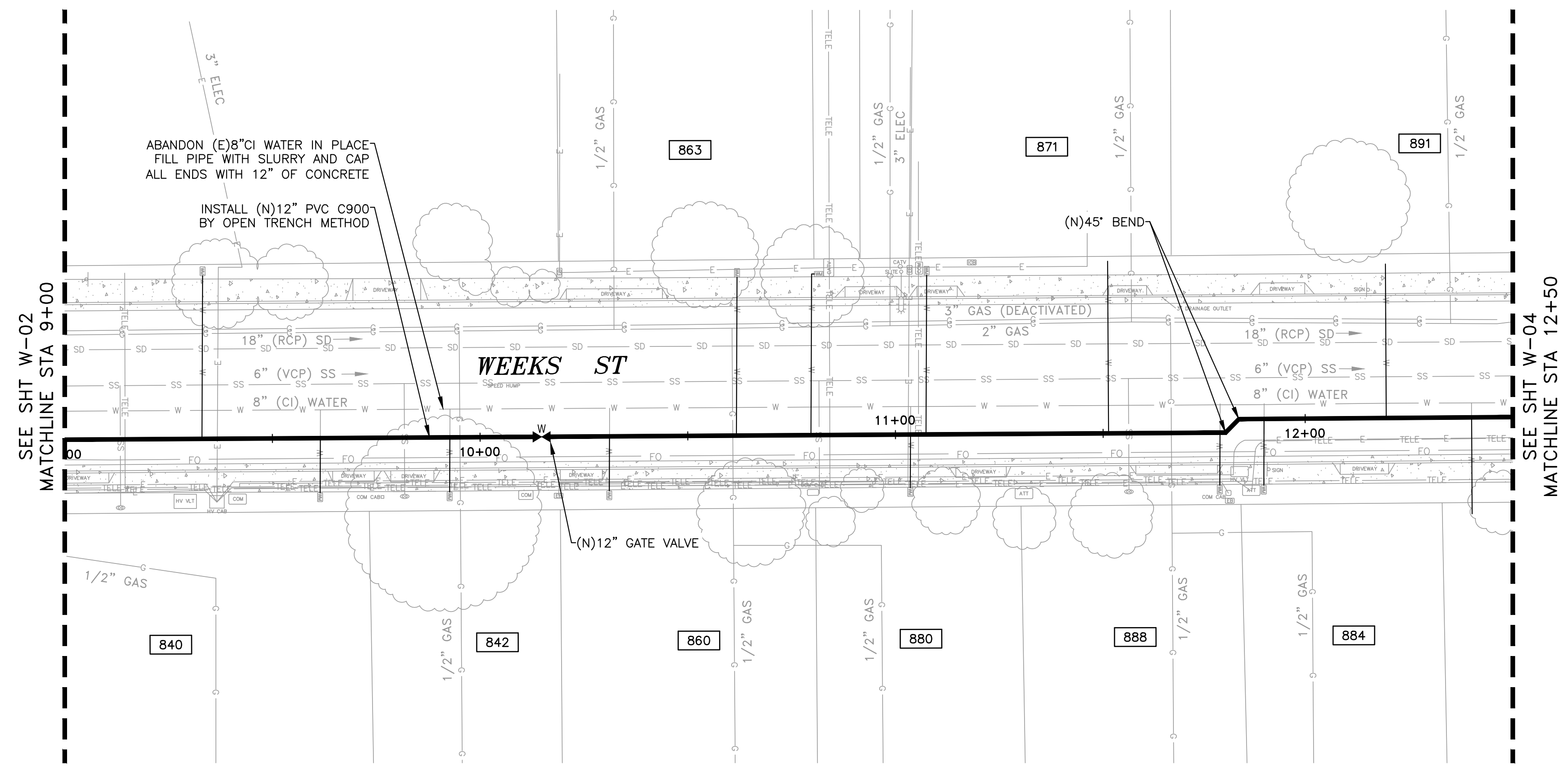
150 Executive Park Blvd. #4200 • San Francisco, CA 94134
 (415)534-7070 • Fax (650)344-9920 • www.freyerlaureta.com



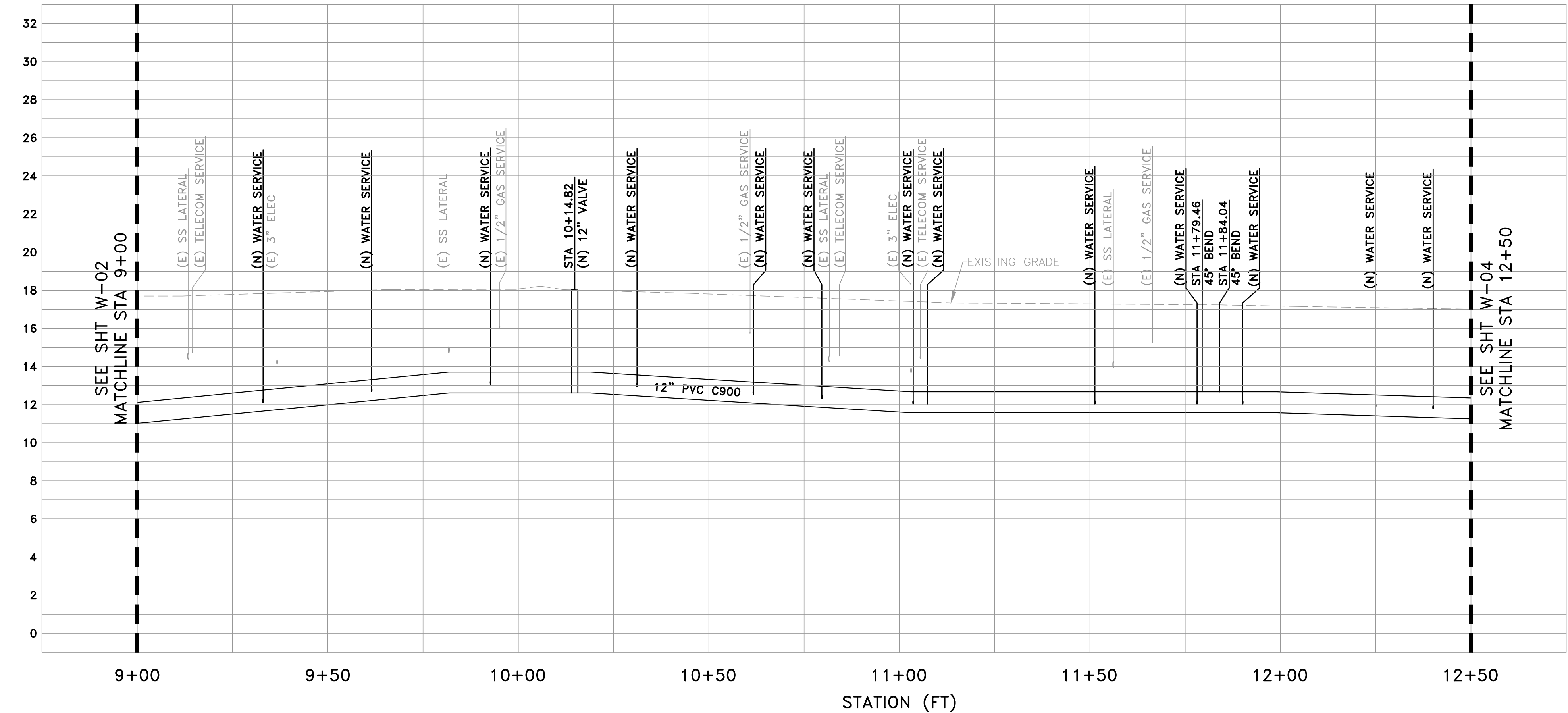
UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
CITY OF EAST PALO ALTO
PLAN & PROFILE - WEEKS ST
STA 4+50 TO 9+00

SHEET
W-02
JOB NO.
221005

DRAWING NAME: Z:\Projects\221 City of East Palo Alto\005_12inch Transmission Watermain\AAA Latest\Utility Plan - Weeks.dwg
 PLOT DATE: 07-21-23
 PLOTTED BY: kyau



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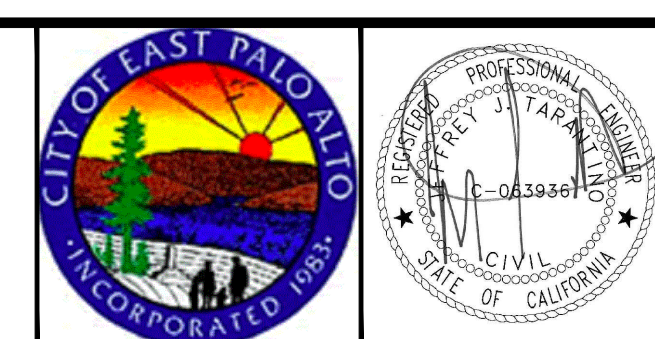


PROFILE VIEW
 HORIZ: 1" = 20'
 VERT: 1" = 4'

DATE:	7/21/23	4/14/23	90% SUBMITTAL (WEEKS ST)
SCALE:	AS NOTED	5/5/23	90% SUBMITTAL (UNIVERSITY AVE)
DESIGNED:	JJF	6/30/23	100% SUBMITTAL
DRAWN:	KMY	7/21/23	BID SET
CHECKED:	JJT		
PROJ. ENGR:	JJF		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D



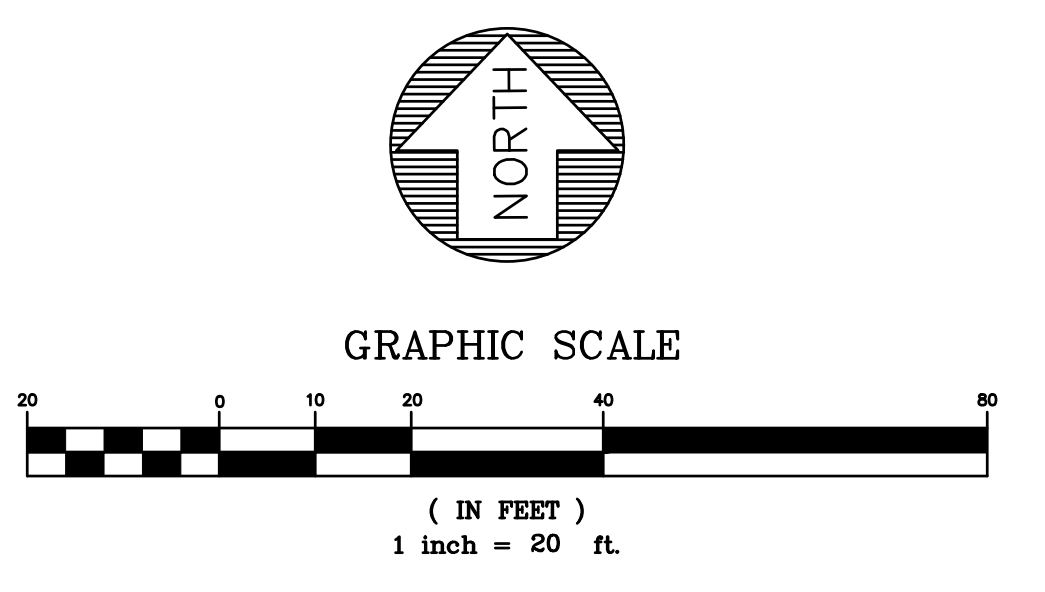
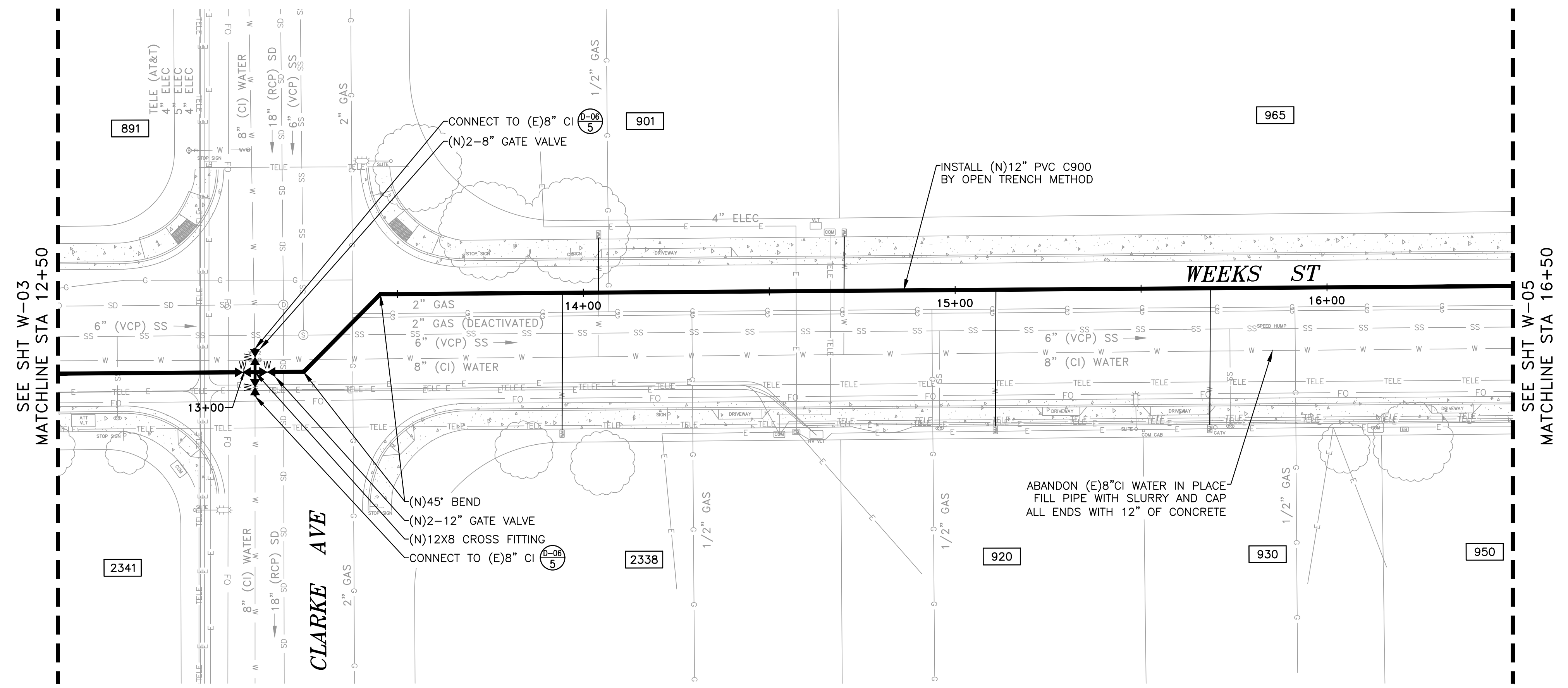
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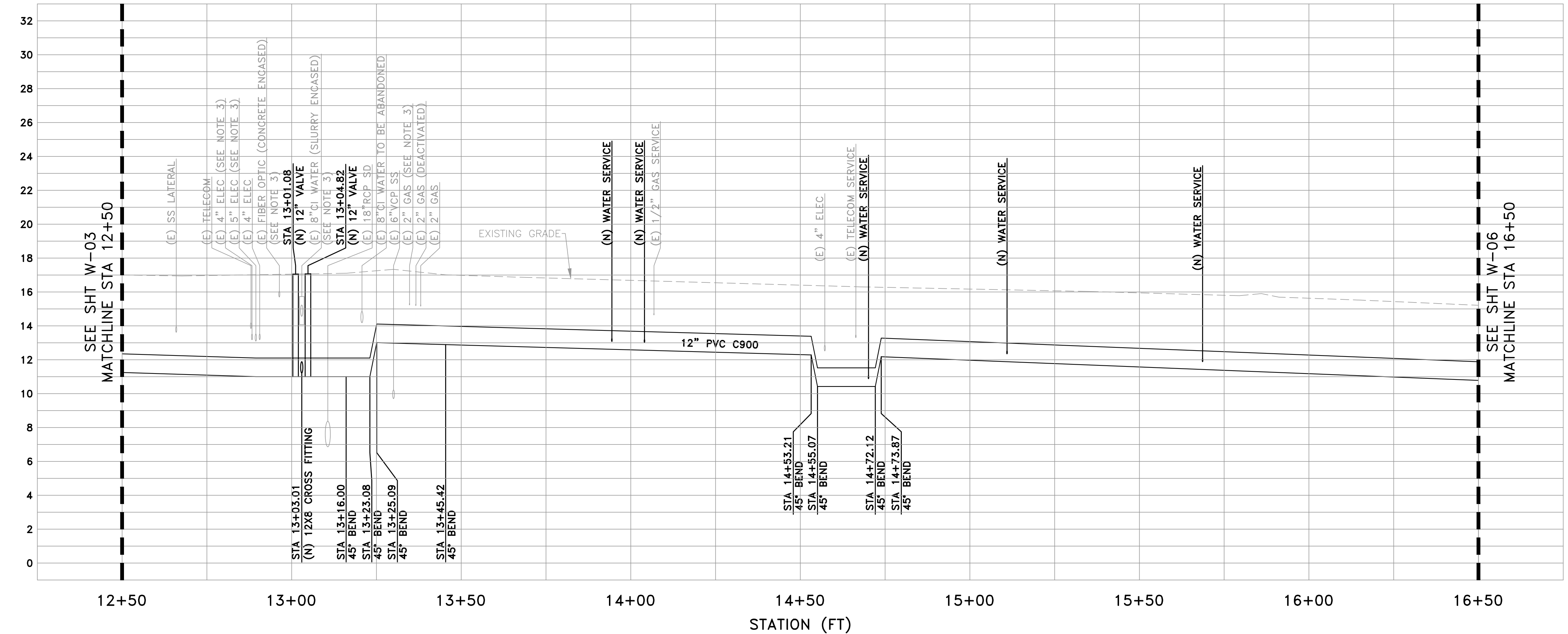
UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
 CITY OF EAST PALO ALTO
PLAN & PROFILE - WEEKS ST
 STA 9+00 TO 12+50

SHEET
W-03
 JOB NO.
221005

DRAWING NAME: Z:\Projects\221 City of East Palo Alto\005_12inch Transmission Watermain\AAA Latest\Utility Plan - Weeks.dwg
 PLOT DATE: 07-21-23 PLOTTED BY: kyau



- UTILITY PLAN NOTES
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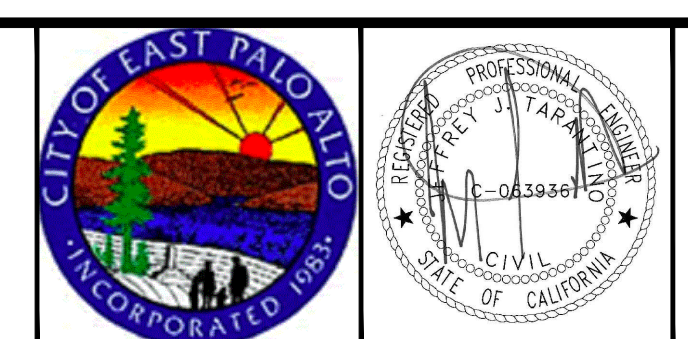


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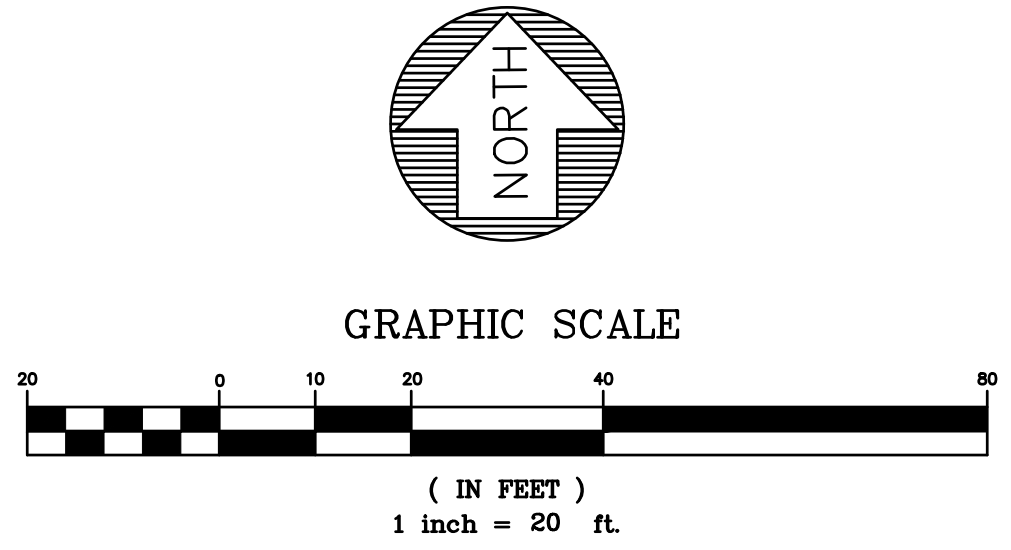
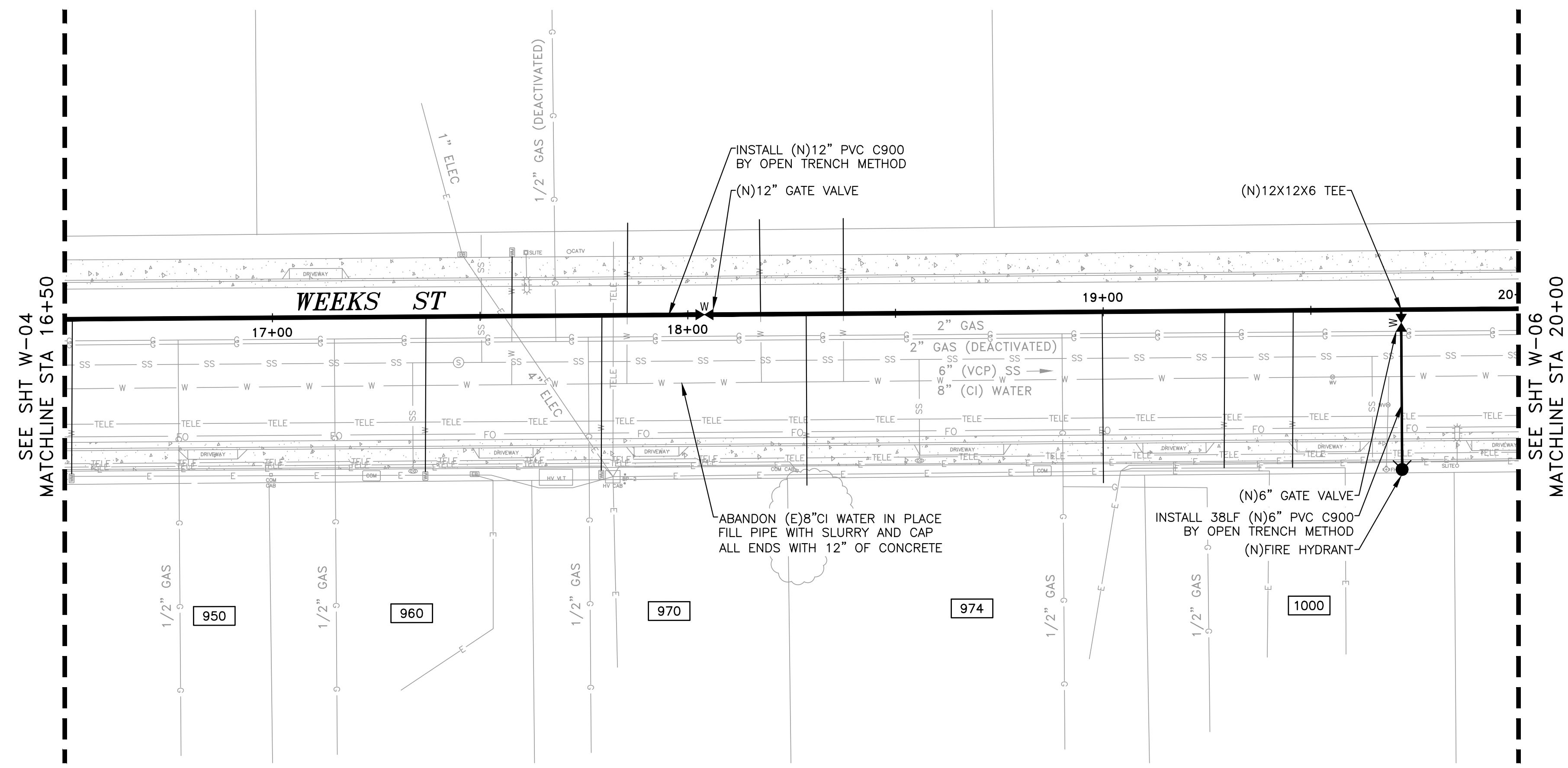
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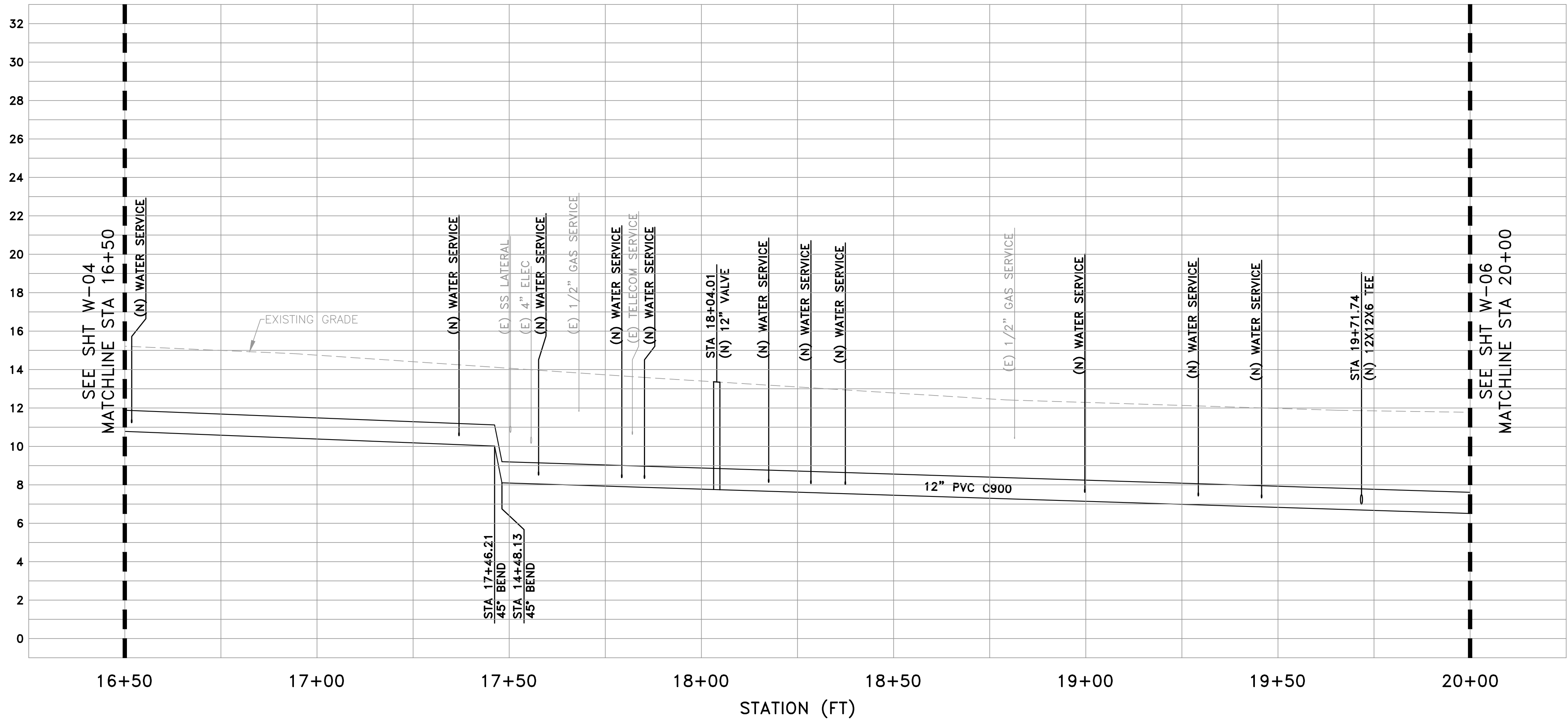
UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
 CITY OF EAST PALO ALTO
PLAN & PROFILE - WEEKS ST
 STA 12+50 TO 16+50

SHEET
W-04
 JOB NO.
221005

DRAWING NAME: Z:\Projects\221 City of East Palo Alto\005_12inch Transmission Watermain\AAA Latest\Utility Plan - Weeks.dwg
 PLOT DATE: 07-21-23 PLOTTED BY: kyu



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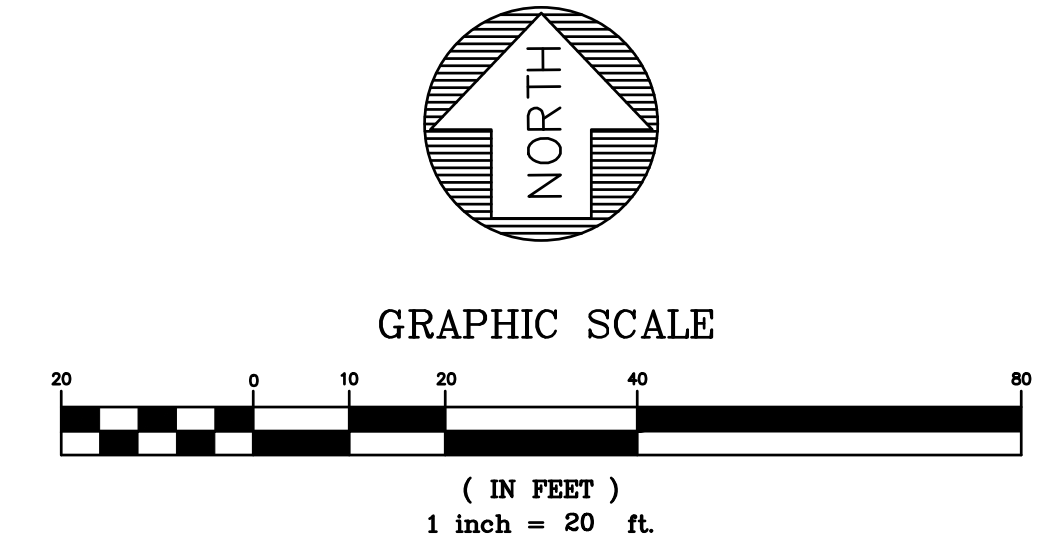
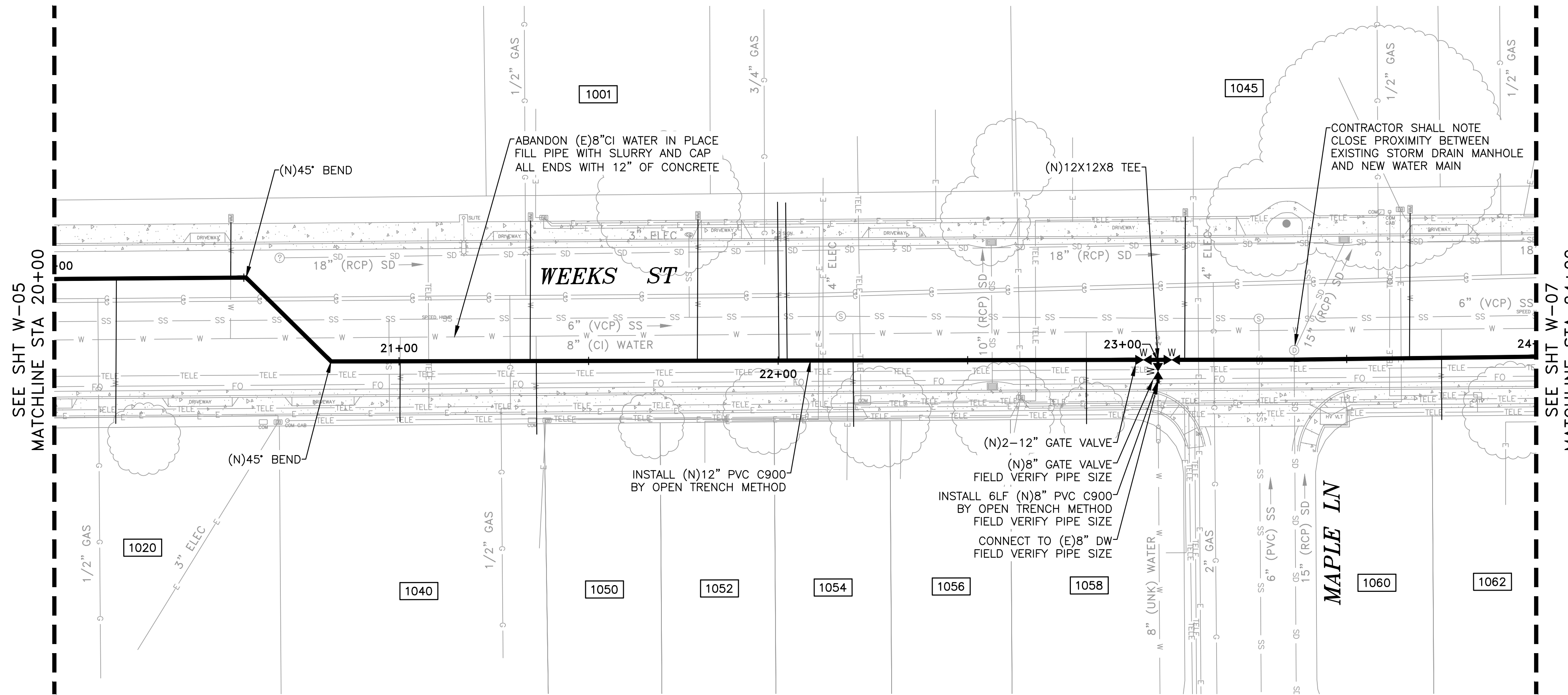
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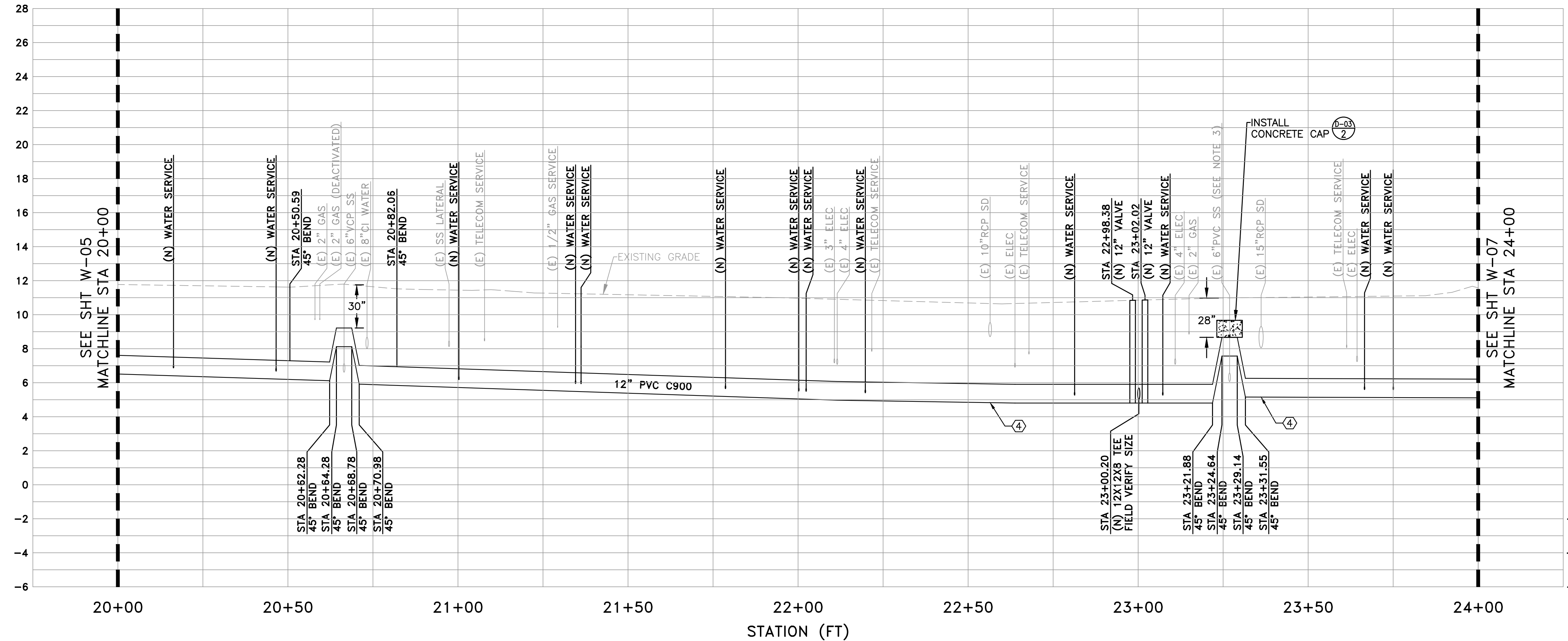
UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
CITY OF EAST PALO ALTO
PLAN & PROFILE - WEEKS ST
STA 16+50 TO 20+00

SHEET
W-05
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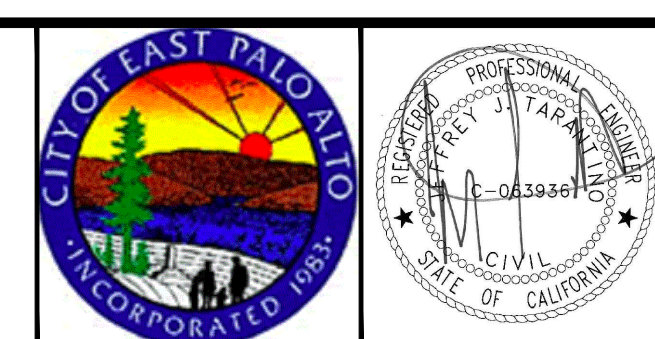


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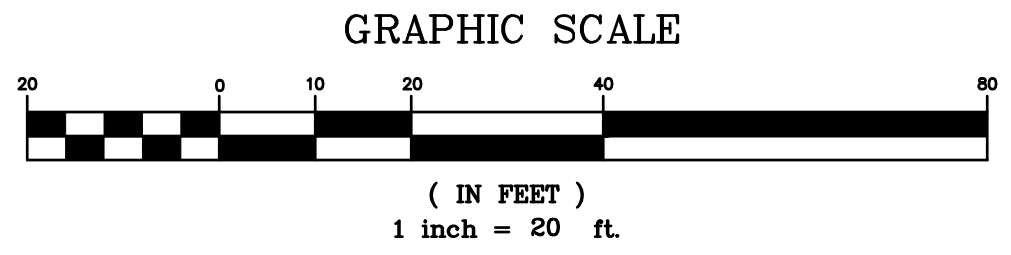
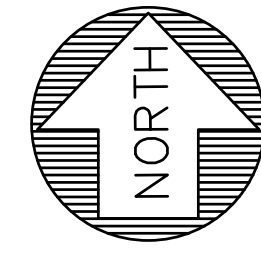
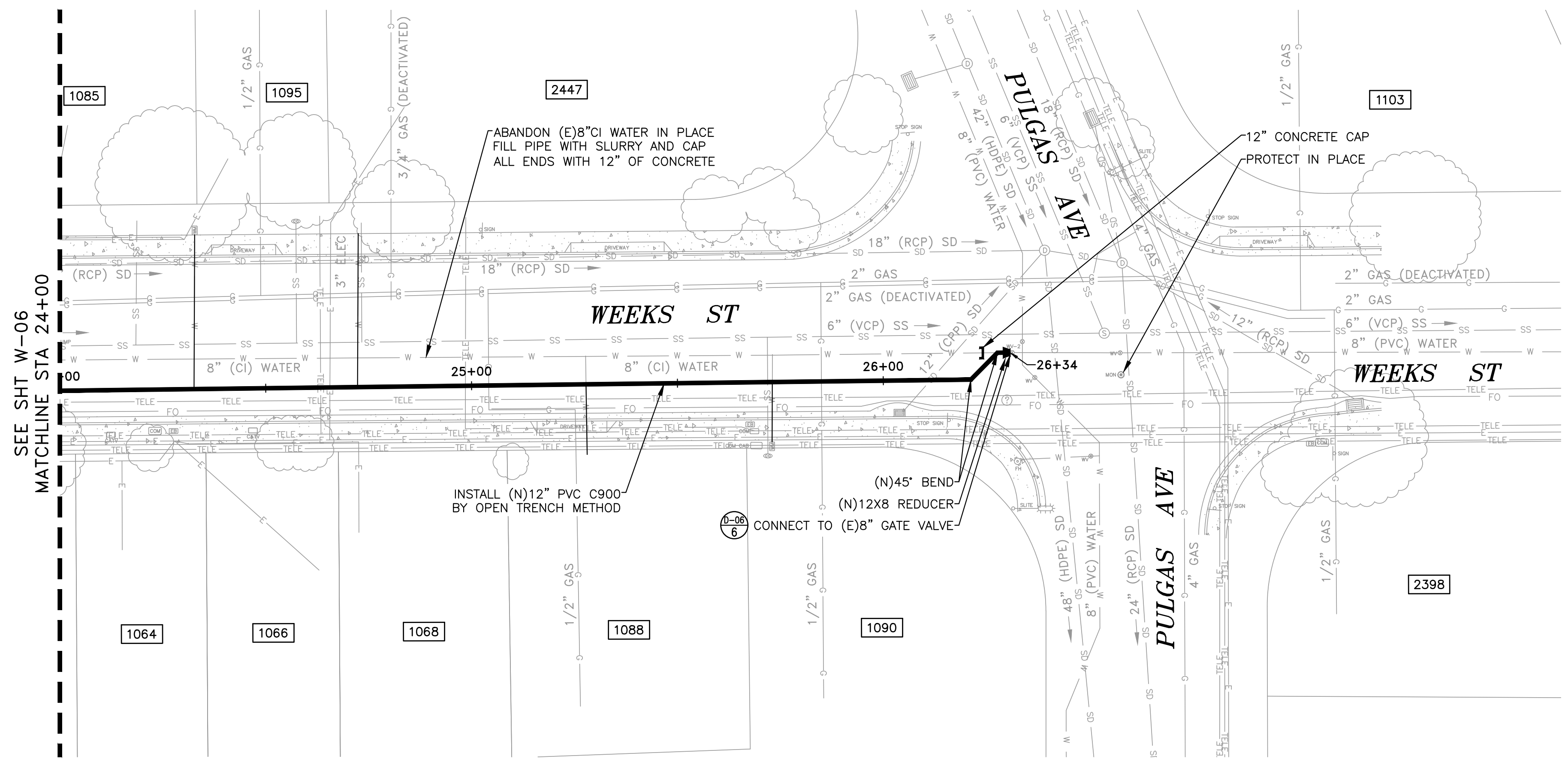
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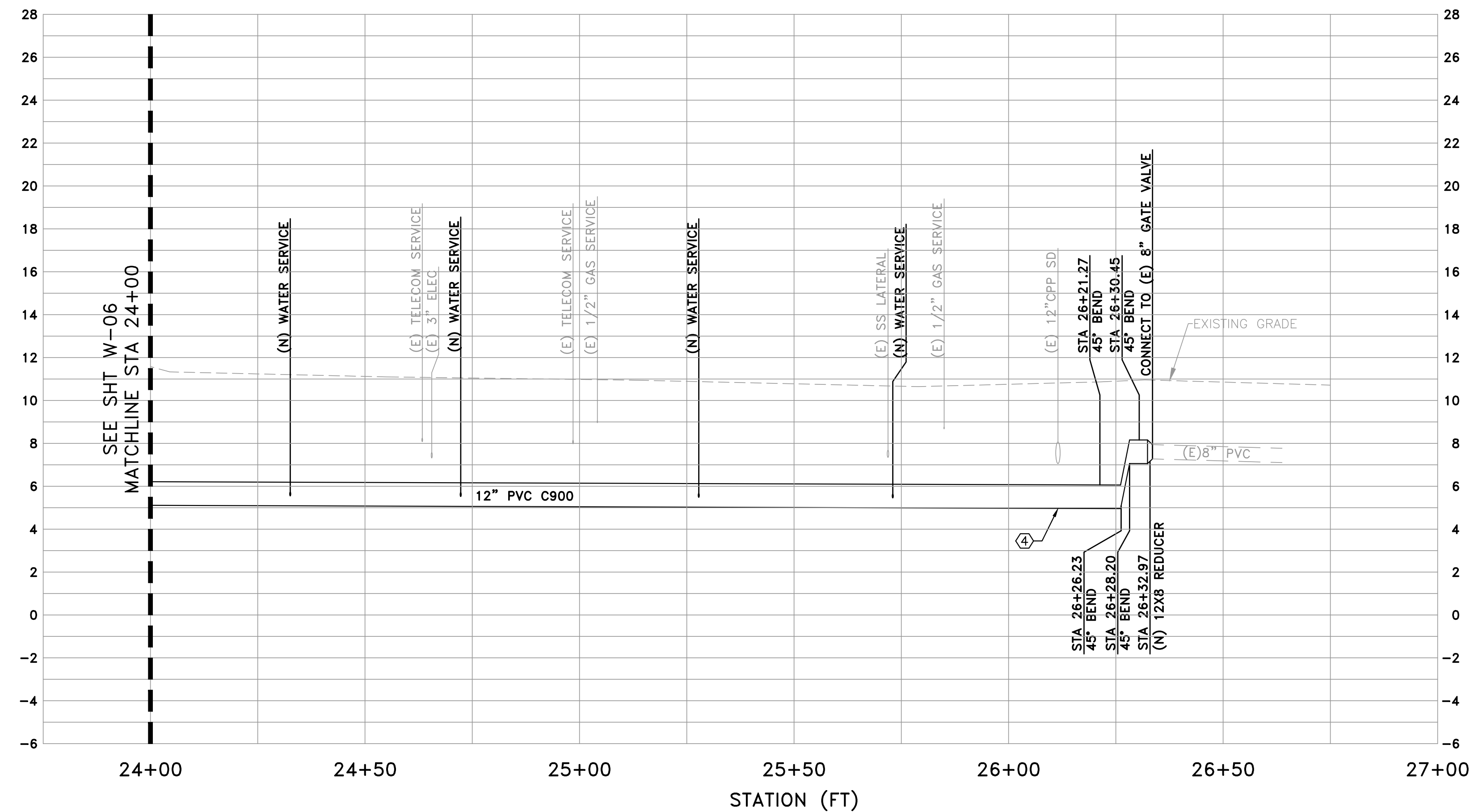
UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
 CITY OF EAST PALO ALTO
PLAN & PROFILE - WEEKS ST
 STA 20+00 TO 24+00

SHEET
W-06
 JOB NO.
221005

DRAWING NAME: Z:\Projects\221 City of East Palo Alto\005_12inch Transmission Watermain\AAA Latest\Utility Plan - Weeks.dwg
 PLOT DATE: 07-21-23 PLOTTED BY: kyau



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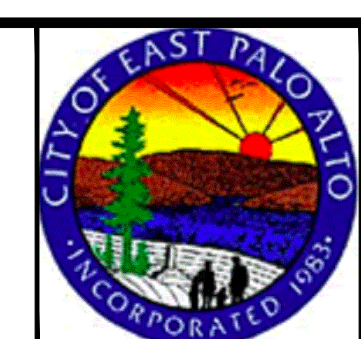


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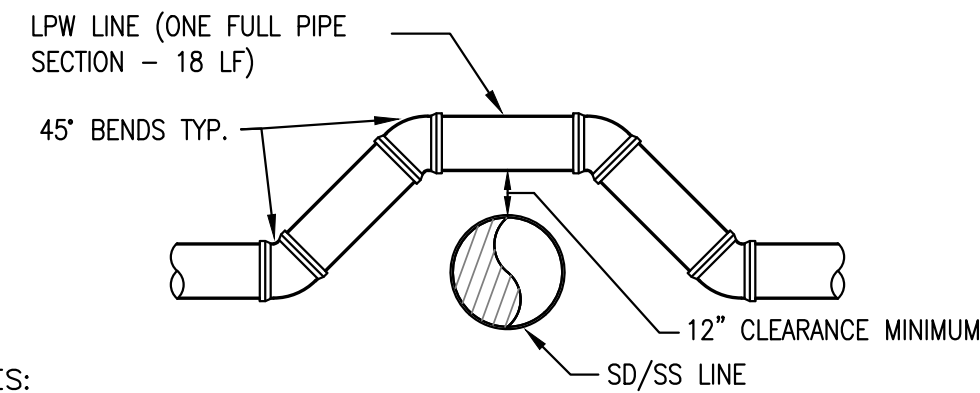


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UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
CITY OF EAST PALO ALTO
PLAN & PROFILE - WEEKS ST
STA 24+00 TO 26+34

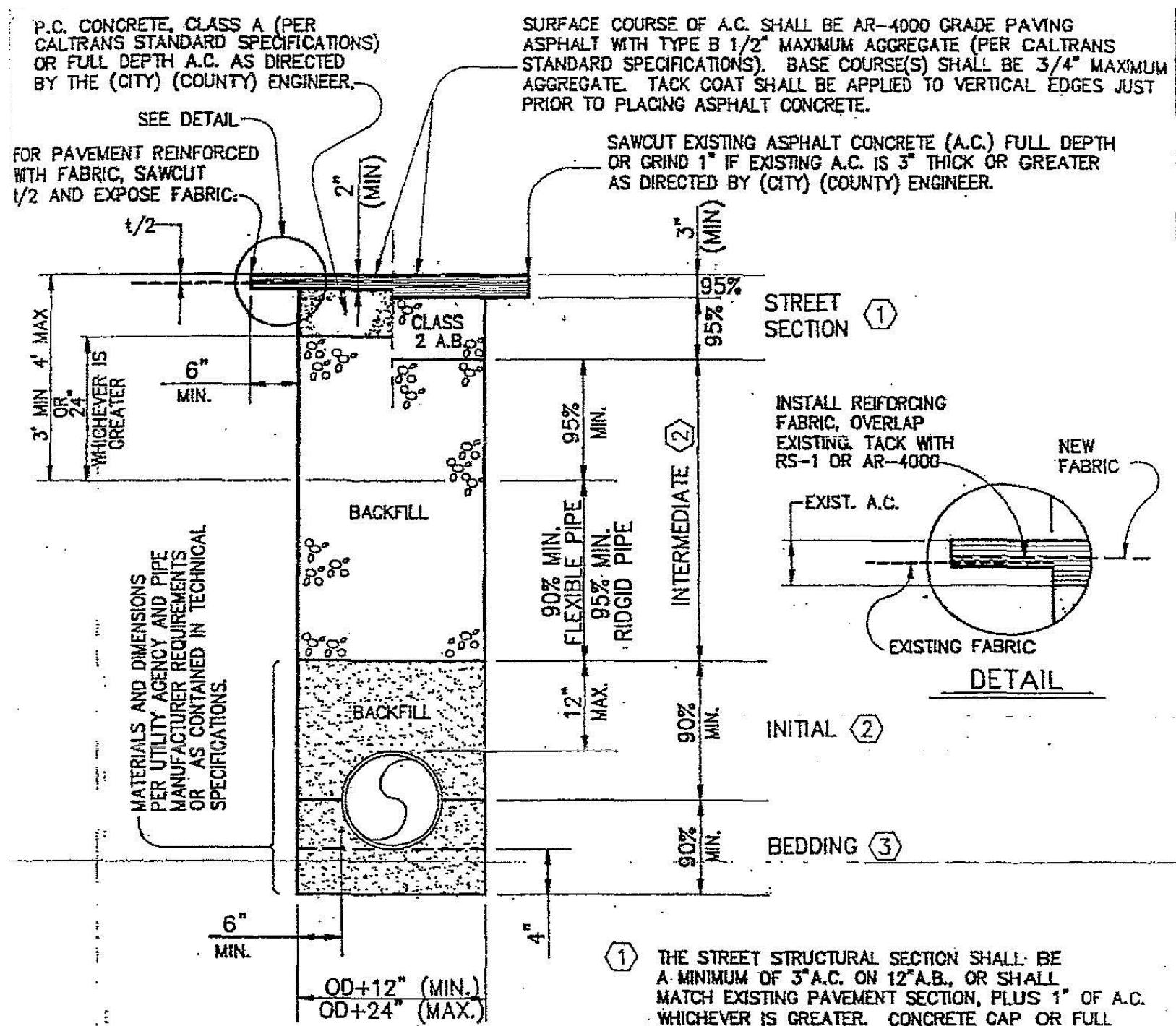
SHEET
W-07
 JOB NO.
221005



NOTES:

- CONTRACTOR SHALL AVOID CONFLICTS WITH OTHER UTILITIES.
- PIPES SHALL HAVE A MINIMUM 12" CLEARANCE AT CROSSINGS.

1 UTILITY CROSSING DETAIL
SCALE: NO SCALE



NOTES:

- STREET ENCROACHMENT PERMIT WILL BE REQUIRED FOR ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
- ALL WORK TO BE DONE IN ACCORDANCE WITH (CITY) (COUNTY) STANDARDS AND SPECIFICATIONS.
- UNDERGROUND SERVICE ALERT (USA) SHALL BE NOTIFIED PRIOR TO BEGINNING WORK.
- ALL EXCAVATIONS SHALL CONFORM TO THE REQUIREMENTS OF THE STATE OF CALIFORNIA DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (OSHA)
- INCLUDE SLURRY SEAL ALONG HALF OF THE STREET WIDTH OF UNIVERSITY AVE AND THE FULL WIDTH OF COOLEY AVE AND WEEKS ST WITHIN THE PROJECT LIMITS. SEE SLURRY SEAL DETAIL 3 ON SHEET D-03.

2 TRENCH SECTION
SCALE: NO SCALE

GENERAL WATER AND SEWER CONSTRUCTION NOTES

- APPROVAL OF THIS PLAN SHALL NOT CONSTITUTE A COMMITMENT FOR SERVICE OR AN AUTHORIZATION TO BEGIN THE SITE UTILITY SYSTEM CONSTRUCTION. THE APPLICANT SHALL BE REQUIRED TO OBTAIN A DIG PERMIT FROM THE INSTALLATION PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.
- THE APPLICANT SHALL OBTAIN ALL NECESSARY PERMITS FROM ANY FEDERAL, STATE, AND/OR LOCAL PERMIT AUTHORITY HAVING JURISDICTION OVER ANY PHASE OF CONSTRUCTION ASSOCIATED WITH THE INSTALLATION OF THIS SITE UTILITY SYSTEM.
- THE CONTRACTOR SHALL NOTIFY THE VEOLIA WATER UTILITY MANAGER AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
- BACKFLOW PREVENTION DEVICES ARE REQUIRED ON ALL CONNECTIONS TO THE EXISTING WATER SYSTEM. BACKFLOW PREVENTERS INSTALLED INSIDE ANY BUILDING SHALL REMAIN UNDER THE OWNERSHIP AND MAINTENANCE RESPONSIBILITY OF THE GOVERNMENT UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL VEOLIA WATER FACILITIES AND OTHER UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER AND VEOLIA WATER OF ANY DISCREPANCIES FOUND IN THE FIELD OR ON THE DRAWINGS PRIOR TO CONSTRUCTION. ANY DEVIATIONS FROM THE CONSTRUCTION PLANS SHALL NEED TO BE APPROVED IN WRITING BY VEOLIA WATER.
- NOT USED
- A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE WHERE CONSTRUCTION IS TAKING PLACE, SHALL BE RESPONSIBLE FOR GENERAL OVERSIGHT AND OBSERVATION OF THE SITE UTILITY SYSTEM INSTALLATION FOR COMPLIANCE WITH AMERICAN WATER STANDARDS AND TESTING REQUIREMENTS.
- THE FOLLOWING TESTS SHALL BE ADMINISTERED BY THE CONTRACTOR AND WITNESSED AND REPORTED BY THE APPLICANT'S ENGINEER OR AGENT:
 - WATER - CHLORINE RESIDUAL
 - WATER - HYDROSTATIC
- ALL TESTING EQUIPMENT SHALL BE FURNISHED BY THE SITE UTILITY CONTRACTOR.
- WATER CONNECTION - CONNECTION OF THE SITE UTILITY WATER SYSTEM TO THE EXISTING VEOLIA WATER WATER DISTRIBUTION SYSTEM IS PROHIBITED UNTIL THE CHLORINE RESIDUAL AND BACTERIOLOGICAL TESTS AS WELL AS THE REQUIRED HYDROSTATIC TESTS HAVE BEEN PERFORMED AND THE RESULTS REPORTED. THE APPLICANT SHALL SUBMIT THE TEST RESULTS TO THE VEOLIA WATER UTILITY MANAGER OR PROJECT ENGINEER FOR APPROVAL.
- NOT USED
- SHOP DRAWINGS SHALL BE SUBMITTED TO VW FOR REVIEW AND APPROVAL PRIOR TO ANY CONSTRUCTION.
- ELECTRONIC FINAL AS-BUILT DRAWINGS PREPARED BY A REGISTERED PROFESSIONAL ENGINEER, COMPATIBLE WITH VEOLIA WATER'S GIS SYSTEM, SHALL BE SUBMITTED TO VEOLIA WATER. THE AS-BUILT DRAWING SHALL REFLECT ANY FIELD CHANGES AND INDICATE 'TIES' FOR THE LOCATION OF VALVES, BENDS, FIRE HYDRANTS, APPURTENANCES, ETC.
- THE CONTRACTOR SHALL NOT OPERATE ANY VALVES LOCATED ON THE EXISTING DISTRIBUTION SYSTEM. REQUESTS TO OPERATE VALVES MUST BE SUBMITTED TO THE VEOLIA WATER UTILITY MANAGER 48 HOURS IN ADVANCE.
- ALL MATERIALS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- WHEN A WATER MAIN AND A SEWER LINE ARE IN A PARALLEL ALIGNMENT, THE WATER MAIN SHALL NOT BE INSTALLED WITHIN TEN FEET (10') OF THE SEWER LINE. WHEN A WATER MAIN AND SEWER LINE ARE IN A PERPENDICULAR CROSSING ALIGNMENT, THE WATER MAIN SHALL NOT BE INSTALLED WITHIN TWO FEET (2') OF THE SEWER LINE AND NO WATER MAIN JOINTS SHALL BE ALLOWED WITHIN TEN FEET (10') OF THE SEWER LINE. SEPARATION DISTANCES MEASURED EDGE-TO-EDGE. IF REQUIRED CLEARANCES CAN NOT BE MAINTAINED, CONCRETE ENCASUREMENT SHALL BE REQUIRED.
- SCHEDULE 40 AND SCHEDULE 80 PVC PIPE ARE NOT PERMITTED UNDER ANY CIRCUMSTANCES.

FINAL

MSG-ST-01

GUIDELINES FOR VARIANCES

- THE CITY OF EAST PALO ALTO CAPITAL PROJECT MANAGER AND HIS/HER DESIGNATED REPRESENTATIVE MAY ALLOW VARIANCES TO THE DESIGN STANDARDS AND STANDARD DETAILS WHEN STRICT ADHERENCE WOULD LESS ADEQUATELY PROVIDE FOR THE DEVELOPMENT, MAINTENANCE, EFFICIENCY, AND EFFECTIVENESS OF THE WATER UTILITIES. ANY VARIANCE GRANTED SHALL ENSURE THAT THE OBJECTIVES AND INTENT OF THE ORIGINAL DESIGN STANDARD OR STANDARD DETAIL TO WHICH THE VARIANCES IS GRANTED ARE SUBSTANTIALLY MET.
- VARIANCES MAY BE ALLOWED WHEN:
 - A SUBSTITUTION FOR A CHANGE IN STANDARD MATERIAL RESULTS IN THE USE OF A MATERIAL WHICH CAN BE CLEARLY DEMONSTRATED TO BE EQUAL TO OR OF SUPERIOR QUALITY;
 - A STRICT ADHERENCE TO A DESIGN STANDARD OR STANDARD DETAIL WOULD BE IMPRACTICAL OR IMPOSSIBLE BECAUSE OF FIELD CONDITIONS SUCH AS EXISTING UTILITY FACILITIES;
 - AN EMERGENCY SITUATION PROHIBITS STRICT ADHERENCE TO A DESIGN STANDARD OR STANDARD DETAIL;
 - AT THE DISCRETION OF THE CITY OF EAST PALO ALTO CAPITAL PROJECT MANAGER.

FINAL

MSG-ST-01A

3 WATER AND SEWER NOTES
SCALE: NO SCALE

DRAWING NAME: Z:\Projects\221 City of East Palo Alto\005_12inch Transmission Watermain\AAA Latest\Detail Sheet.dwg
PLOT DATE: 07-21-23 PLOTTED BY: kyau

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BY	DATE	DESCRIPTION OF REVISIONS	APP'D	

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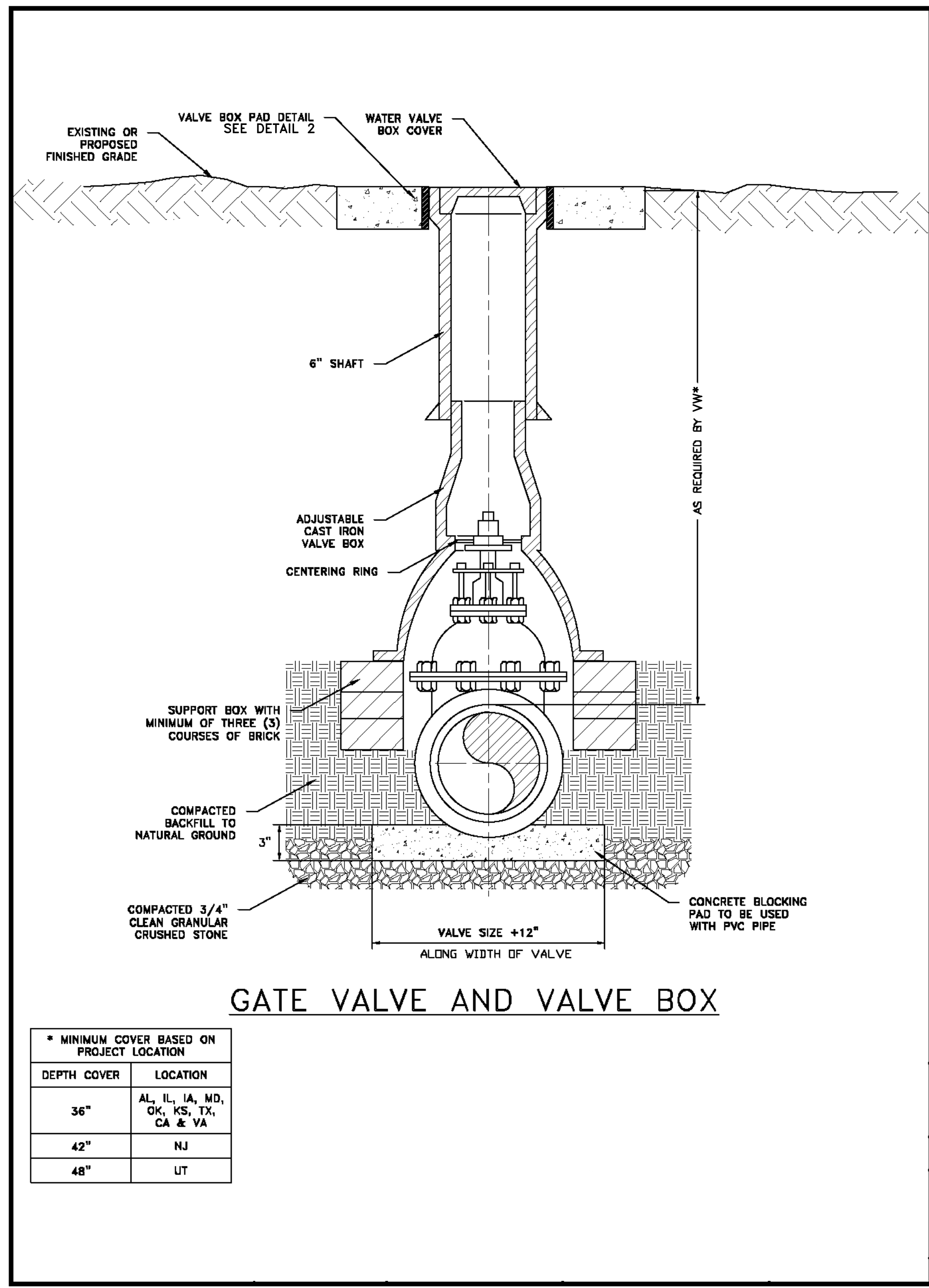
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UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
CITY OF EAST PALO ALTO

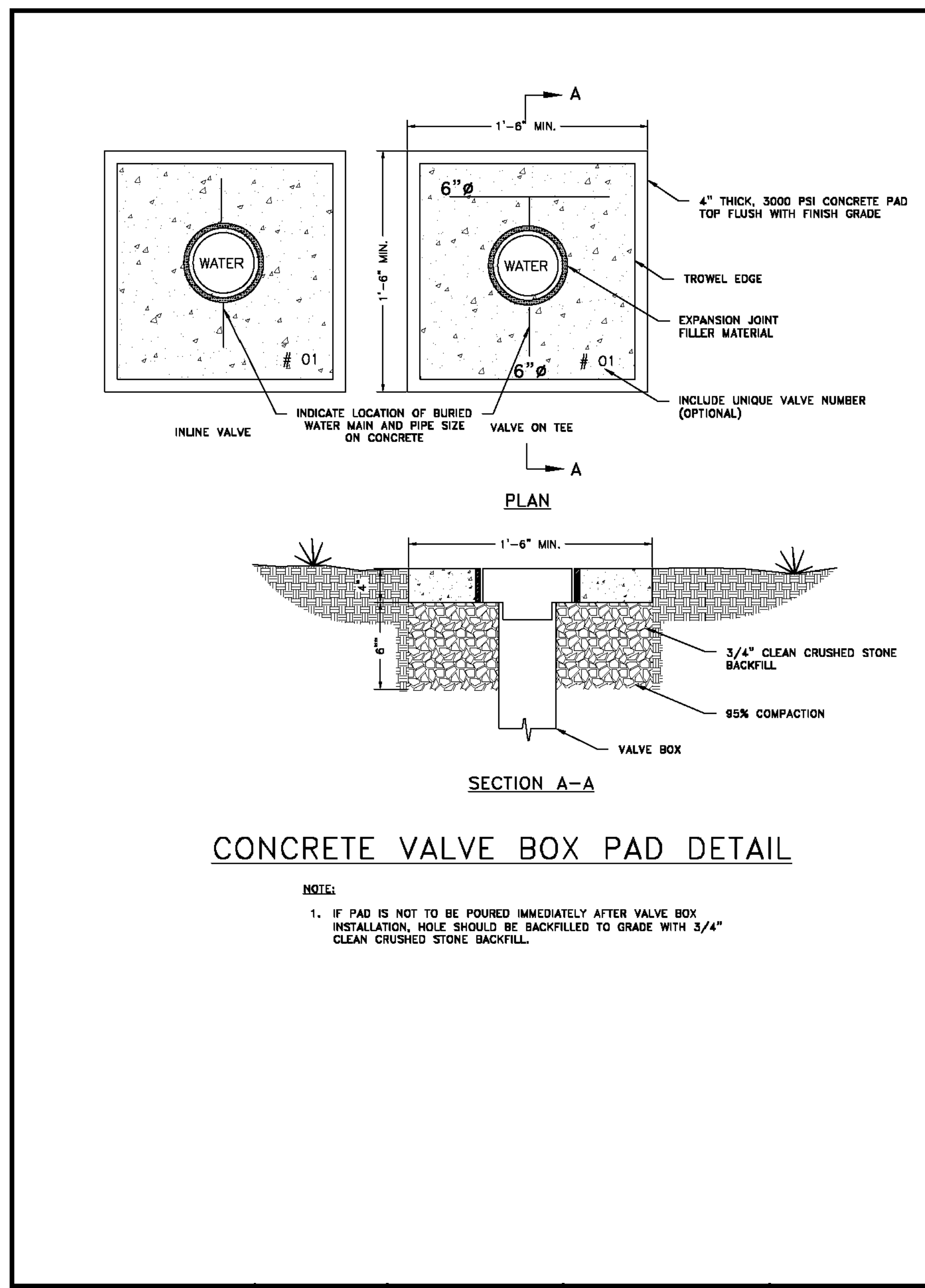
DETAIL SHEET

SHEET
D-01
JOB NO.
221005



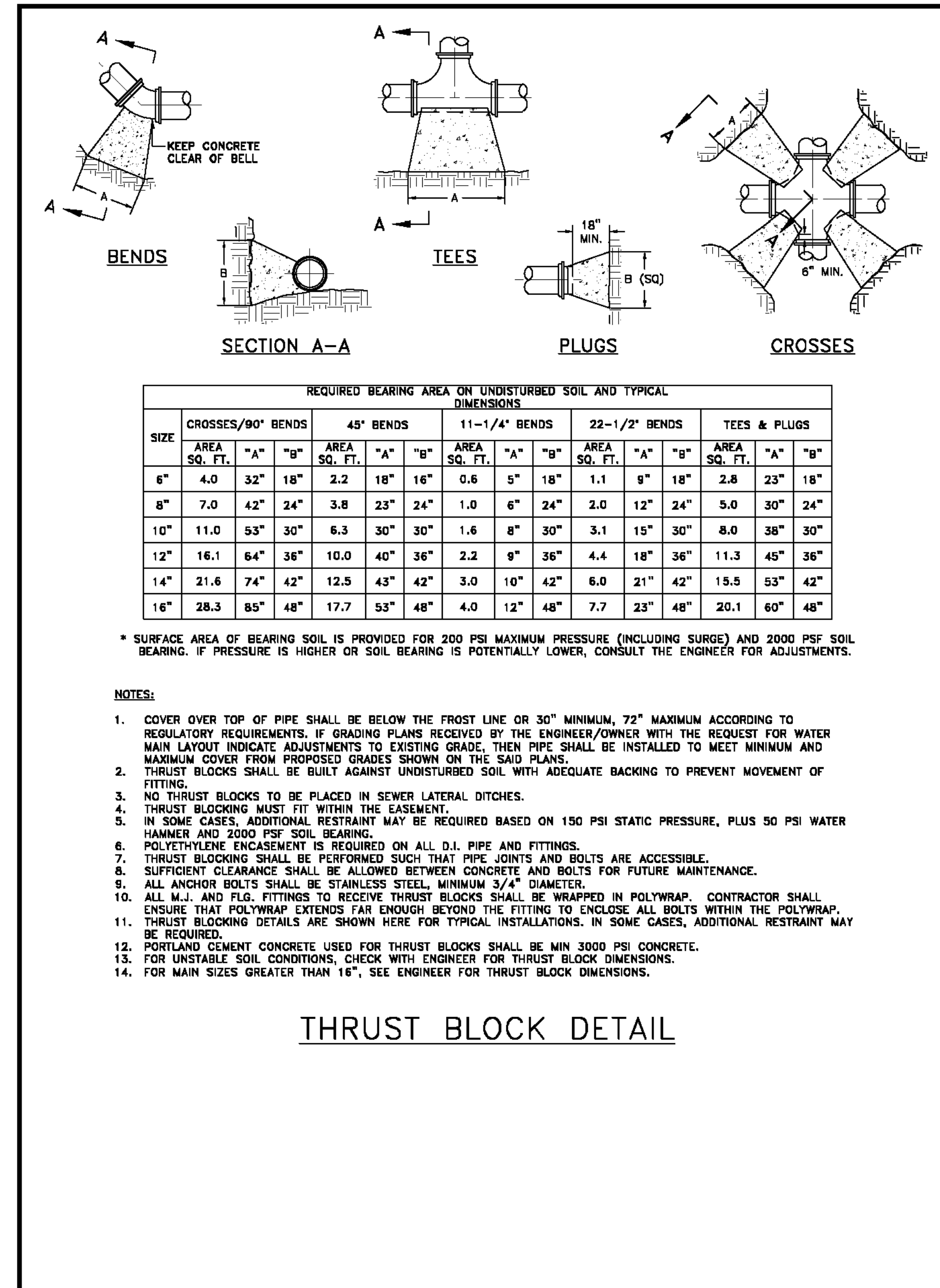
FINAL MSG-W-03

1 GATE VALVE AND VALVE BOX
SCALE: NO SCALE



FINAL MSG-W-04

2 CONCRETE VALVE BOX PAD
SCALE: NO SCALE



FINAL MSG-W-08

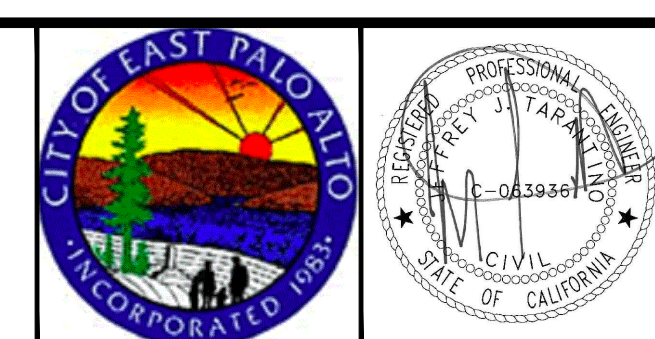
3 THRUST BLOCK
SCALE: NO SCALE

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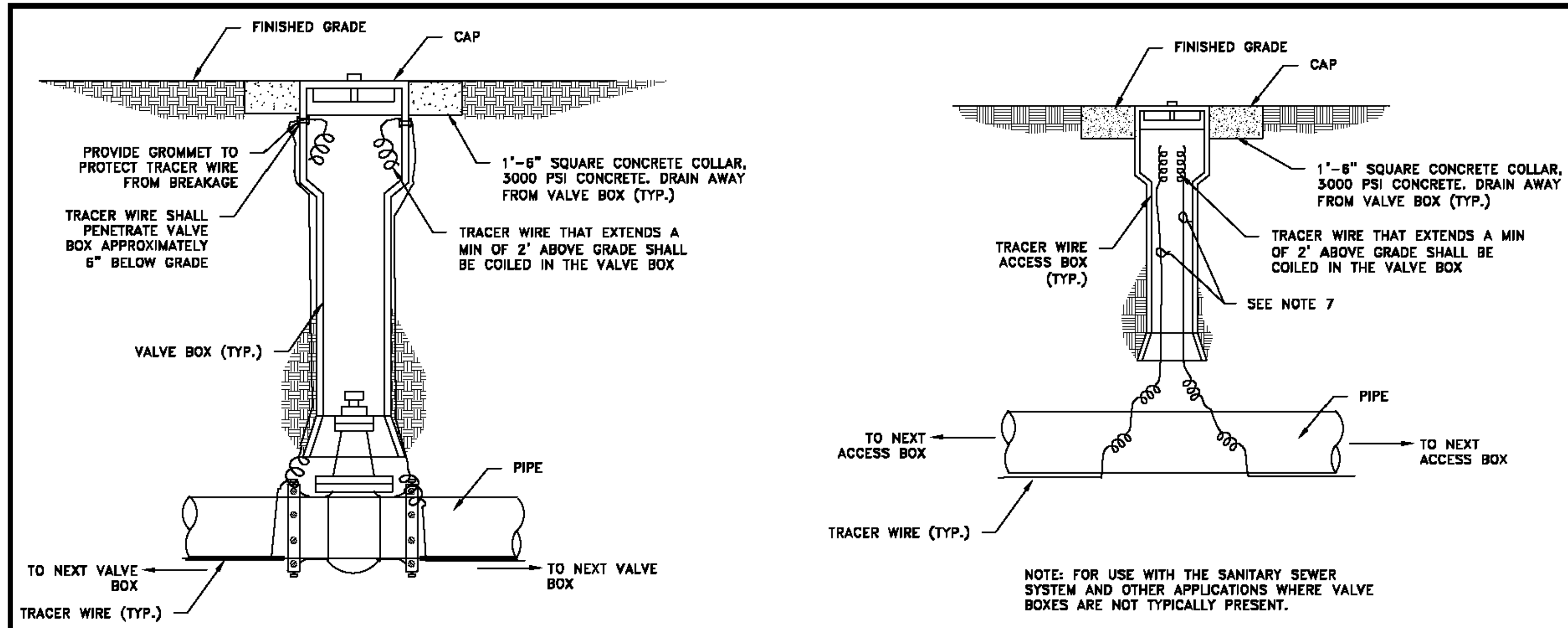


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UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
CITY OF EAST PALO ALTO
DETAIL SHEET

SHEET
D-02
JOB NO.
221005



TYPICAL TRACER WIRE VALVE BOX INSTALLATION

TYPICAL TRACER WIRE ACCESS BOX INSTALLATION
NON VALVE LOCATIONS

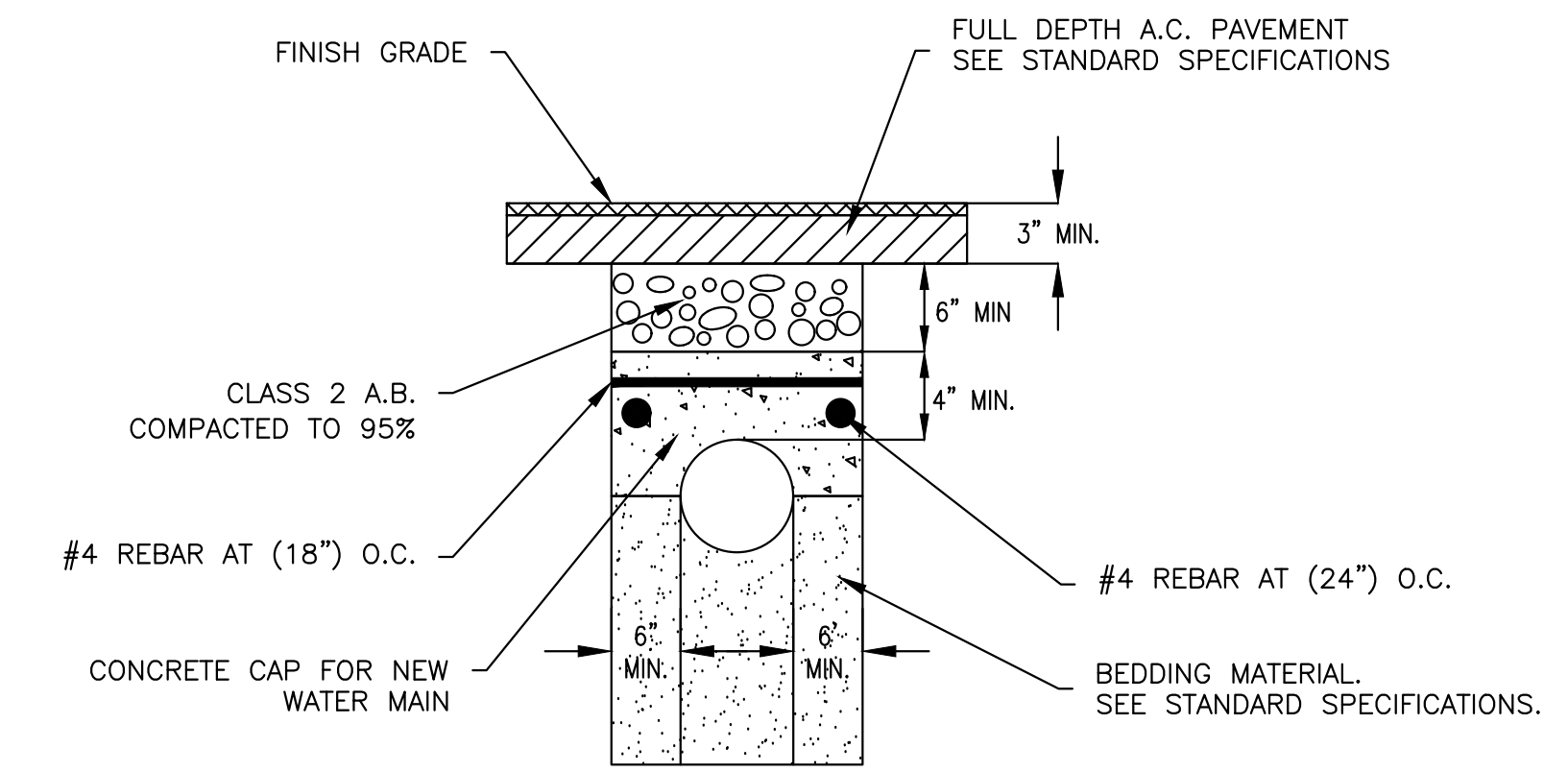
TRACER WIRE INSTALLATION

- NOTES:
1. TRACER WIRE SHALL BE TIED INTO EVERY VALVE, BLOW-OFF, ARV, AND OTHER DEVICES OR CHANGES IN DIRECTION. PROVIDE ONE TRACER WIRE TEST STATION AT MINIMUM INTERVALS AS PRESCRIBED IN AMERICAN WATER'S DESIGN GUIDE.
 2. TRACER LEADS SHALL BE INSTALLED IN APPROVED CURB BOXES OR TRACER WIRE ACCESS BOXES. ACCESS BOX STYLE (LIGHT DUTY, DRIVEWAY, OR ROADWAY) SHALL BE DETERMINED BY BOX LOCATION.
 3. CURB BOXES SHALL BE INSTALLED FLUSH WITH GROUND AND LOCATED OVER PIPE LINE TO WHICH TRACER LEAD IS ATTACHED.
 4. TRACER LEADS SHALL HAVE ADEQUATE SLACK THROUGHOUT THE INSTALLATION TO REDUCE BREAKAGE FROM PULLING.
 5. TRACER WIRE THAT EXTENDS A MIN OF 2' ABOVE GRADE SHALL BE COILED IN THE VALVE BOX AND WIRES SHALL BE PROPERLY CONNECT TO THE VALVE BOX PER MANUFACTURERS SPECIFICATIONS, ALL TRACER WIRES SHALL BE OF #12 TW SOLID COPPER WIRE.
 6. EARTH AROUND VALVE BOXES SHALL BE THOROUGHLY COMPACTED AT THE TIME OF INSTALLATION, SUBCONTRACTOR SHALL MAKE ADJUSTMENTS FOR FINAL GRADING, SODDING, PAVING, AND RESTORATION AT THE COMPLETION OF EACH PROJECT. SUBCONTRACTOR SHALL PROTECT THE LEADS, BOXES, AND ALL TRACER WIRES THROUGHOUT THE PROJECT. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL WATER AND WASTEWATER UTILITY LOCATIONS THROUGHOUT THE PROJECT AND UNTIL APPROVED AND ACCEPTED BY VEOLIA WATER.
 7. PROVIDE ONE TRACER LEAD IN EACH DIRECTION UNLESS OTHERWISE NOTED.
 8. CONTRACTOR SHALL CONFIRM THE REQUIREMENT FOR CONCRETE COLLARS WITH VW PRIOR TO CONSTRUCTION.

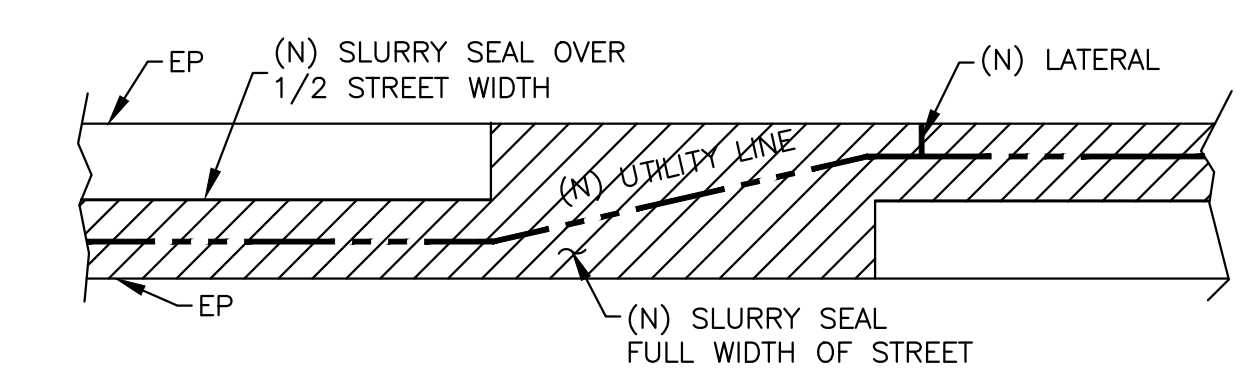
NOTE: FOR USE WITH THE SANITARY SEWER SYSTEM AND OTHER APPLICATIONS WHERE VALVE BOXES ARE NOT TYPICALLY PRESENT.

FINAL MSG-W-05

1 TRACER WIRE INSTALLATION
SCALE: NO SCALE



2 CONCRETE CAP DETAIL
TRENCHES WITH < 30" COVER
SCALE: NO SCALE



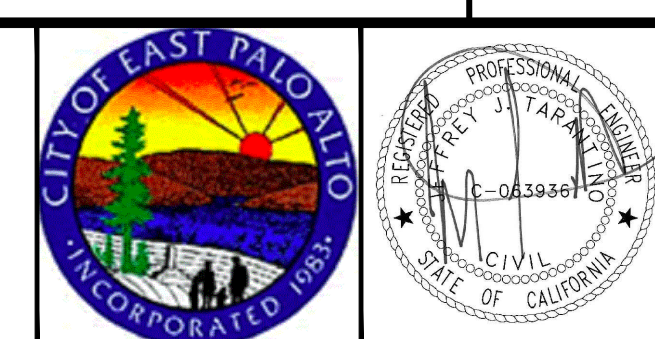
3 SLURRY SEAL
SCALE: NO SCALE

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	BY	DATE	DESCRIPTION OF REVISIONS	APP'D

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CIVIL ENGINEERS • SURVEYORS • CONSTRUCTION MANAGERS

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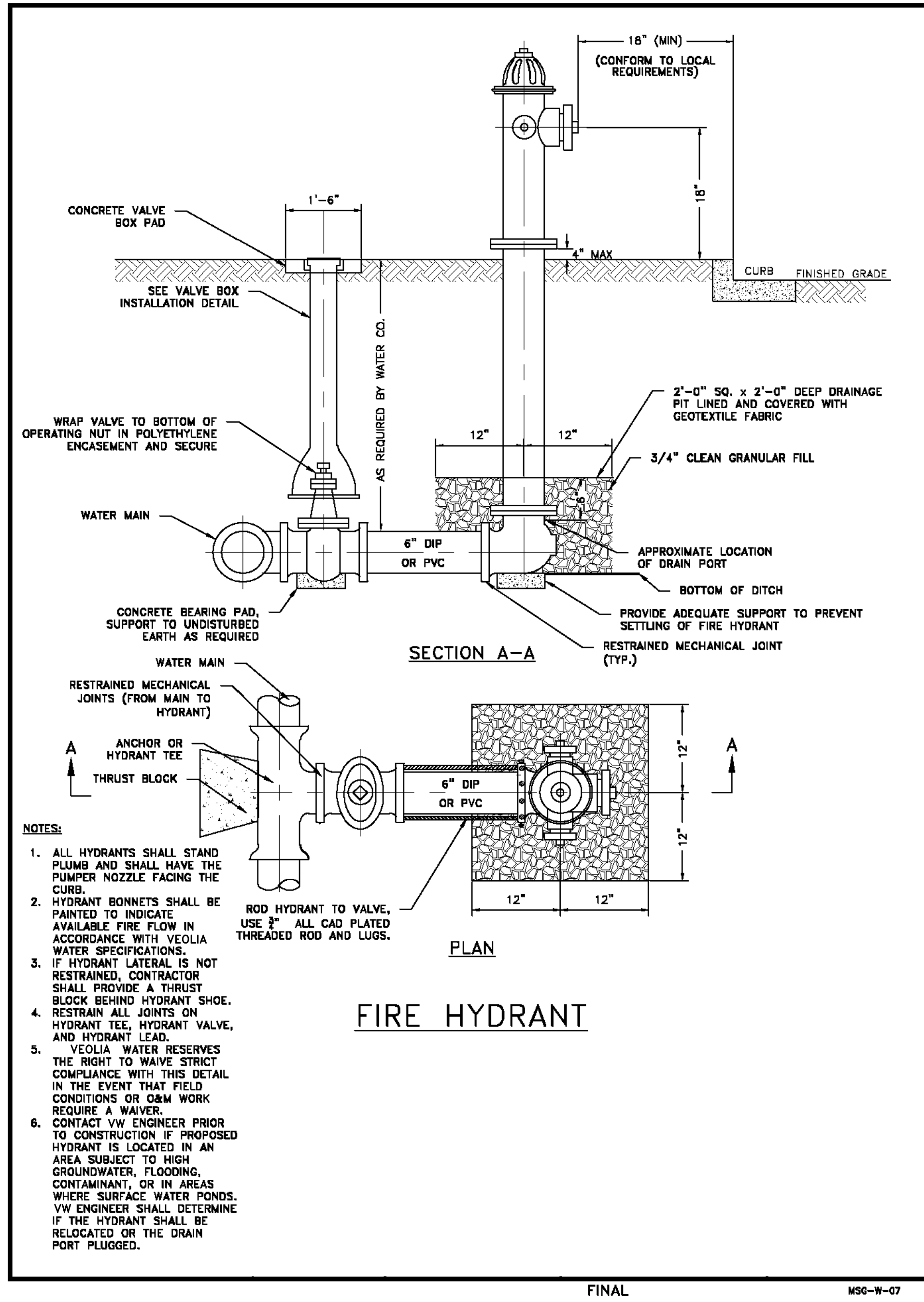


**UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
CITY OF EAST PALO ALTO**

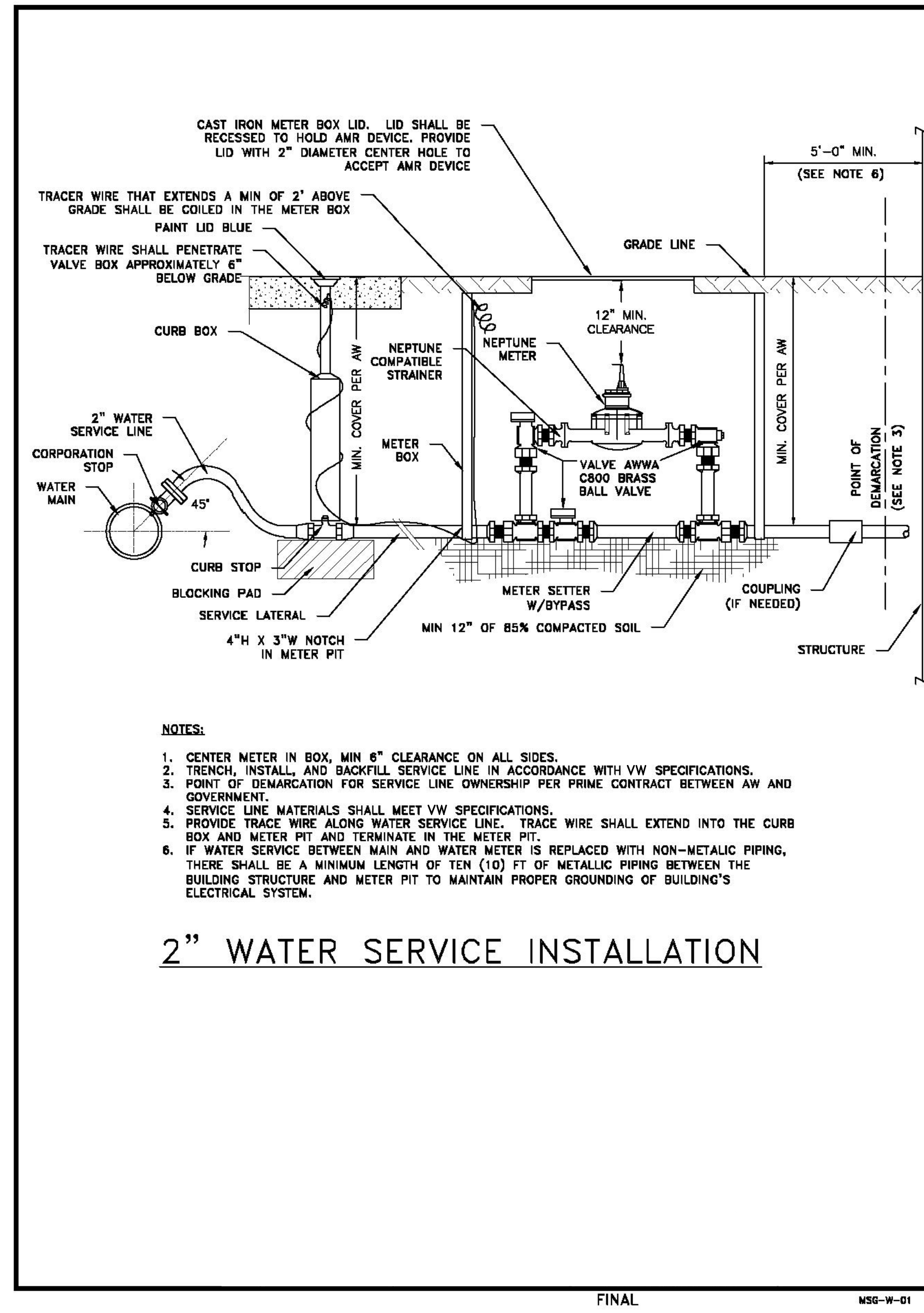
DETAIL SHEET

SHEET	D-03
JOB NO.	221005

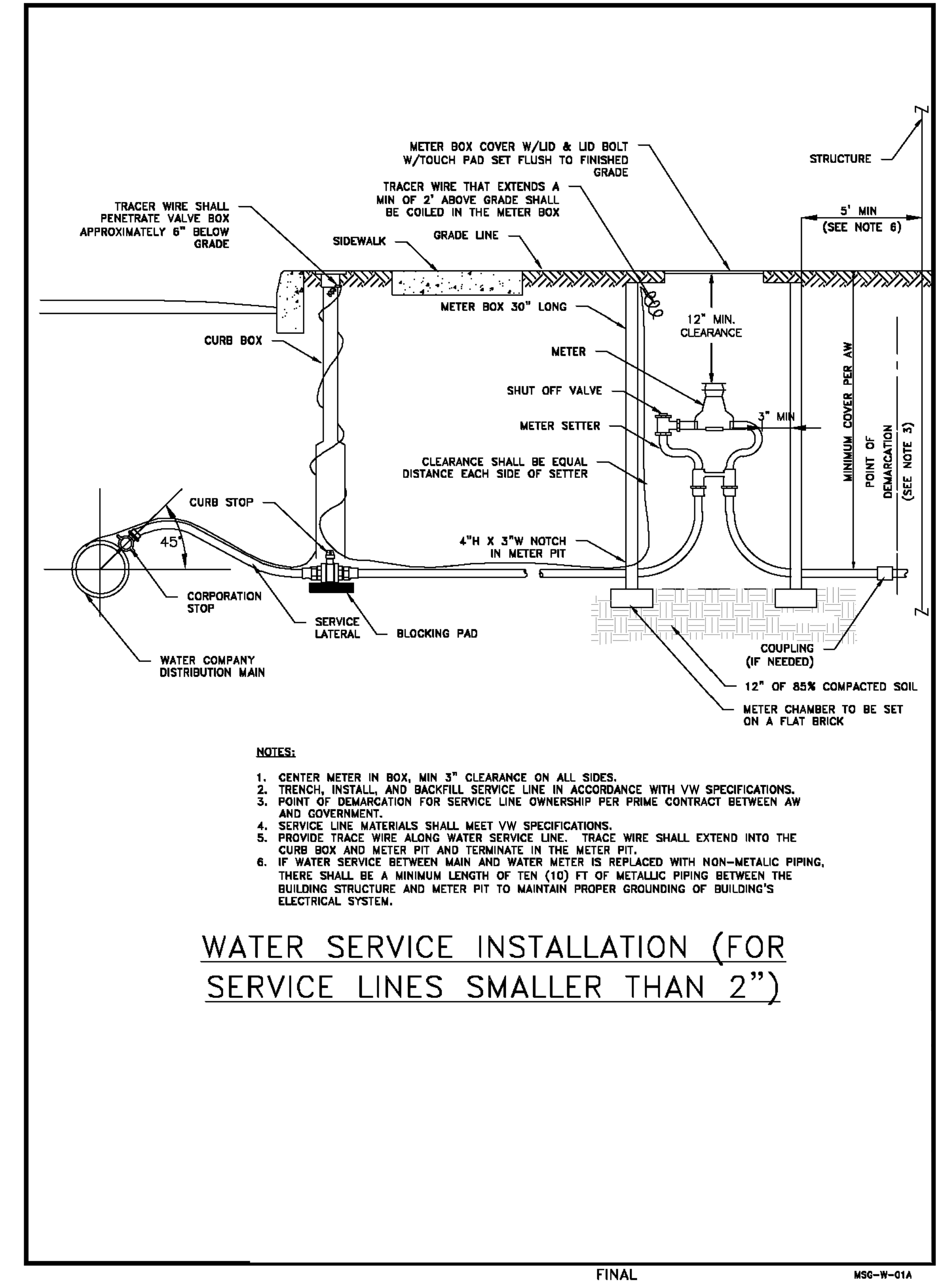
DRAWING NAME: Z:\Projects\221 City of East Palo Alto\005_12inch Transmission Watermain\AAA Latest\Detail Sheet.dwg
 PLOT DATE: 07-21-23
 PLOTTED BY: kyu



1 FIRE HYDRANT
SCALE: NO SCALE



2 2" WATER SERVICE INSTALLATION
SCALE: NO SCALE

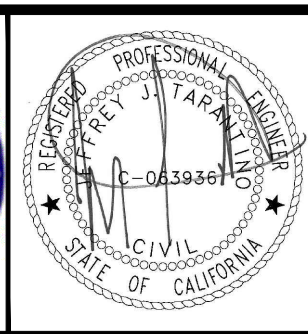


3 WATER SERVICE INSTALLATION (SMALLER THAN 2")
SCALE: NO SCALE

DATE:	7/21/23	4/14/23	90% SUBMITTAL (WEEKS ST)
SCALE:	AS NOTED	5/5/23	90% SUBMITTAL (UNIVERSITY AVE)
DESIGNED:	JJF	6/30/23	100% SUBMITTAL
DRAWN:	KMY	7/21/23	BID SET
CHECKED:	JJT		
PROJ. ENGR:	JJF		
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 CITY OF EAST PALO ALTO**

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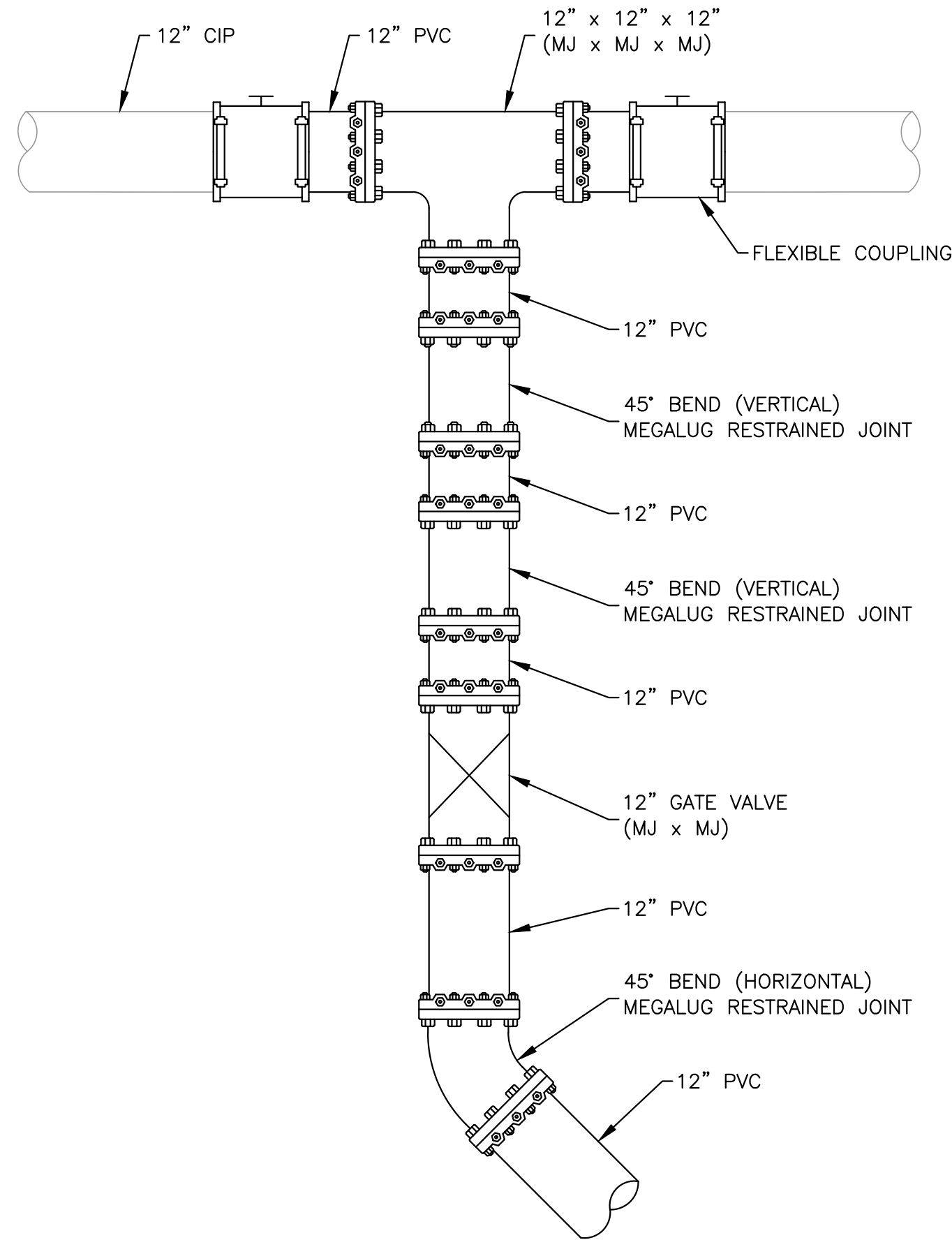
SHEET

D-04

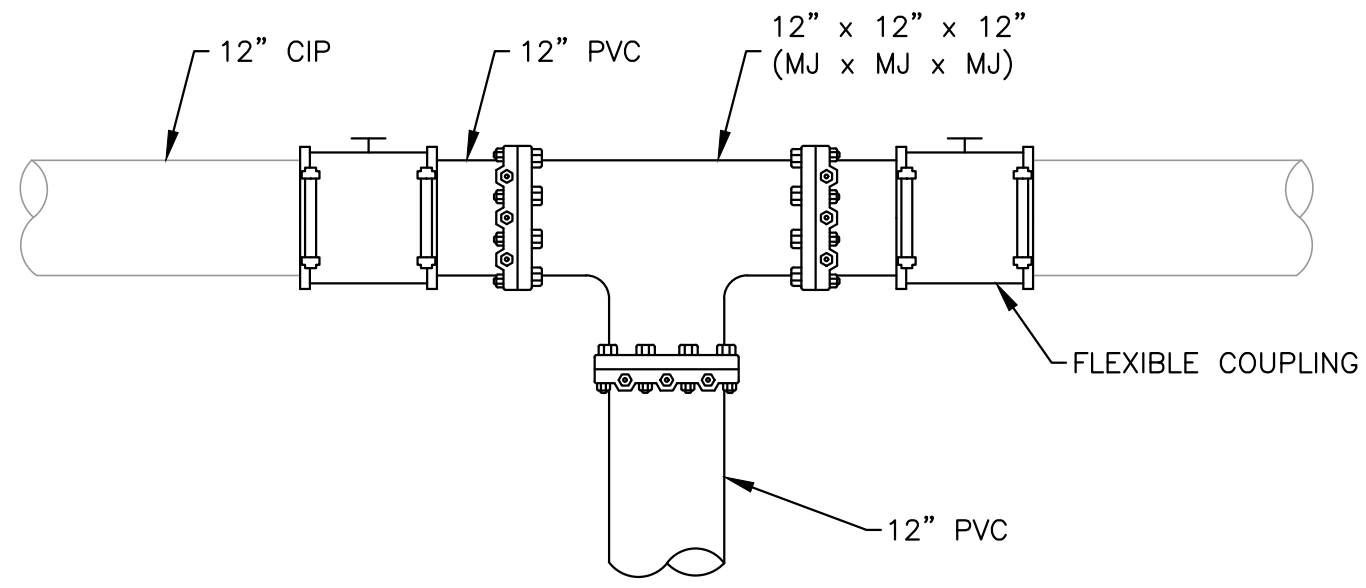
JOB NO.

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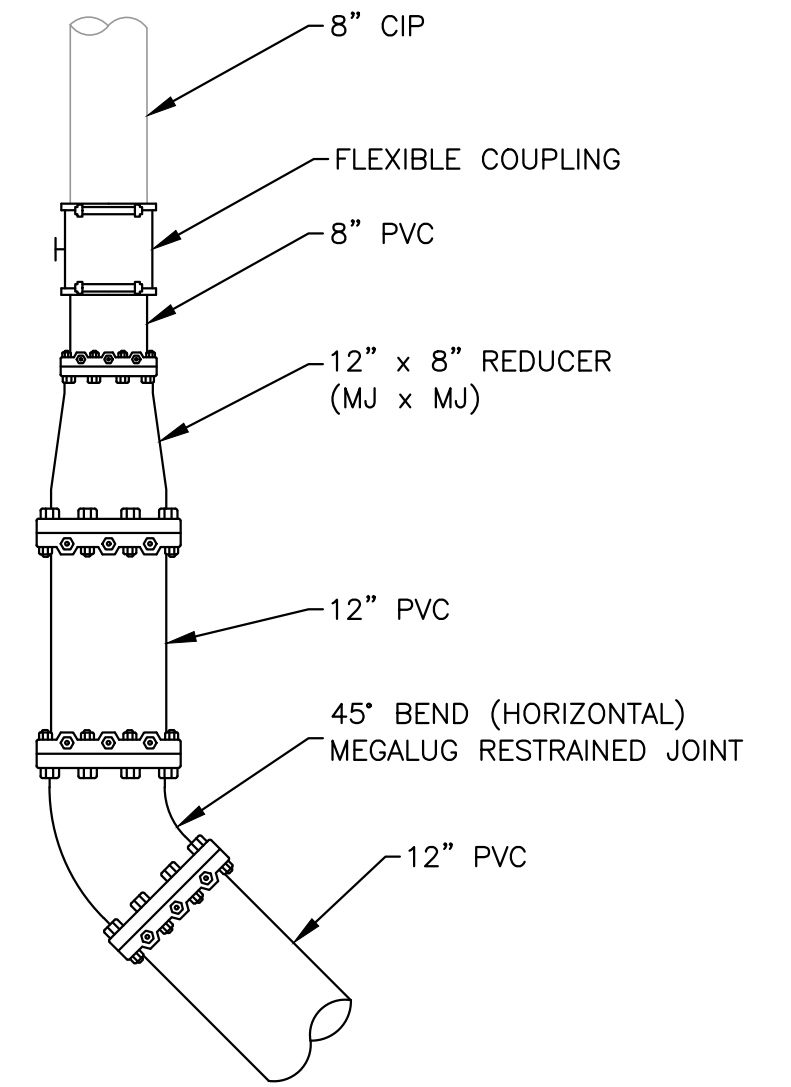
DRAWING NAME: Z:\Projects\221 City of East Palo Alto\005_12inch Transmission Watermain\AAA Latest\Detail Sheet.dwg
 PLOT DATE: 07-21-23 PLOTTED BY: kyau



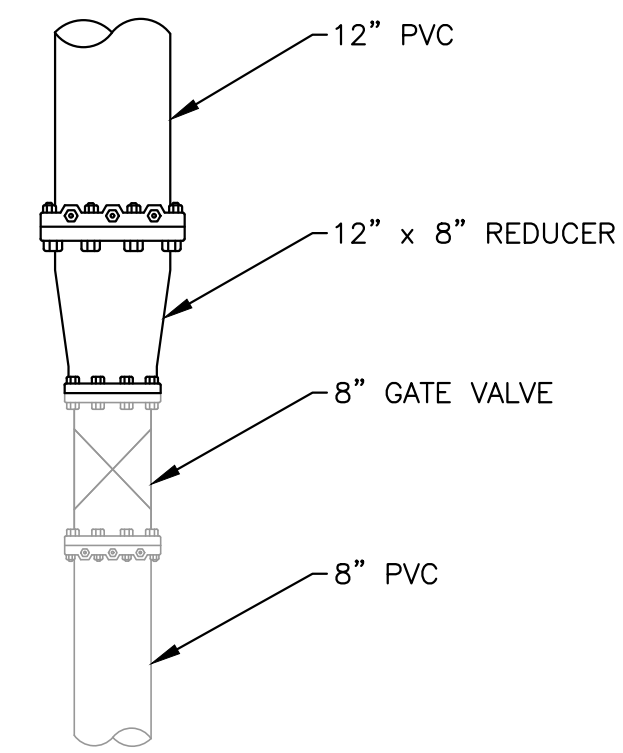
1 UNIVERSITY AVE & O'BRIEN DR CONNECTION
 SCALE: NO SCALE



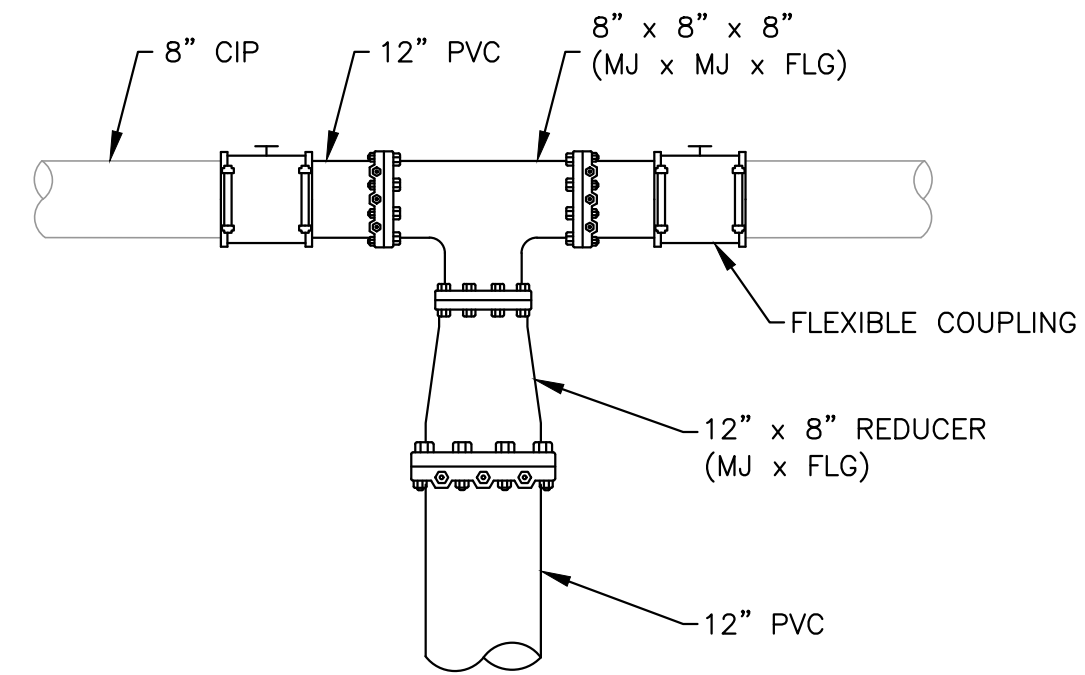
3 UNIVERSITY AVE & BAY RD CONNECTION
 SCALE: NO SCALE



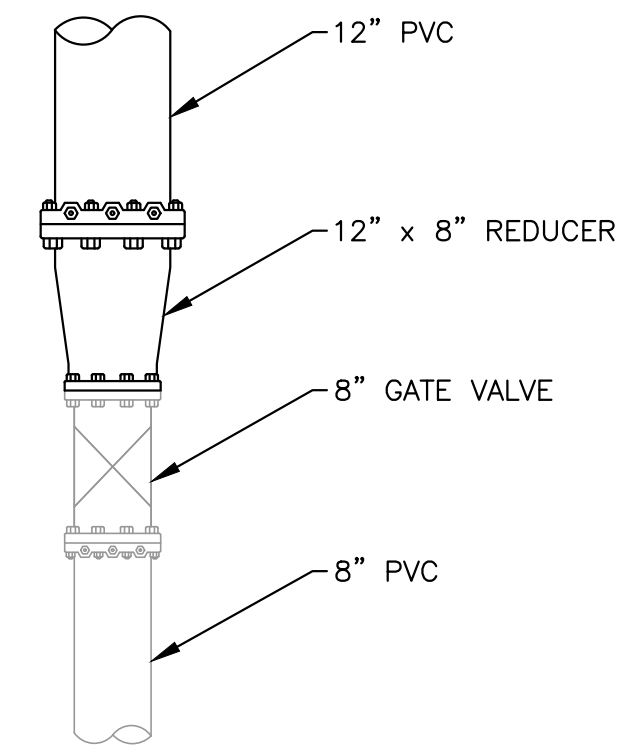
6 UNIVERSITY AVE & RUNNYMEDE ST CONNECTION (EAST SIDE)
 SCALE: NO SCALE



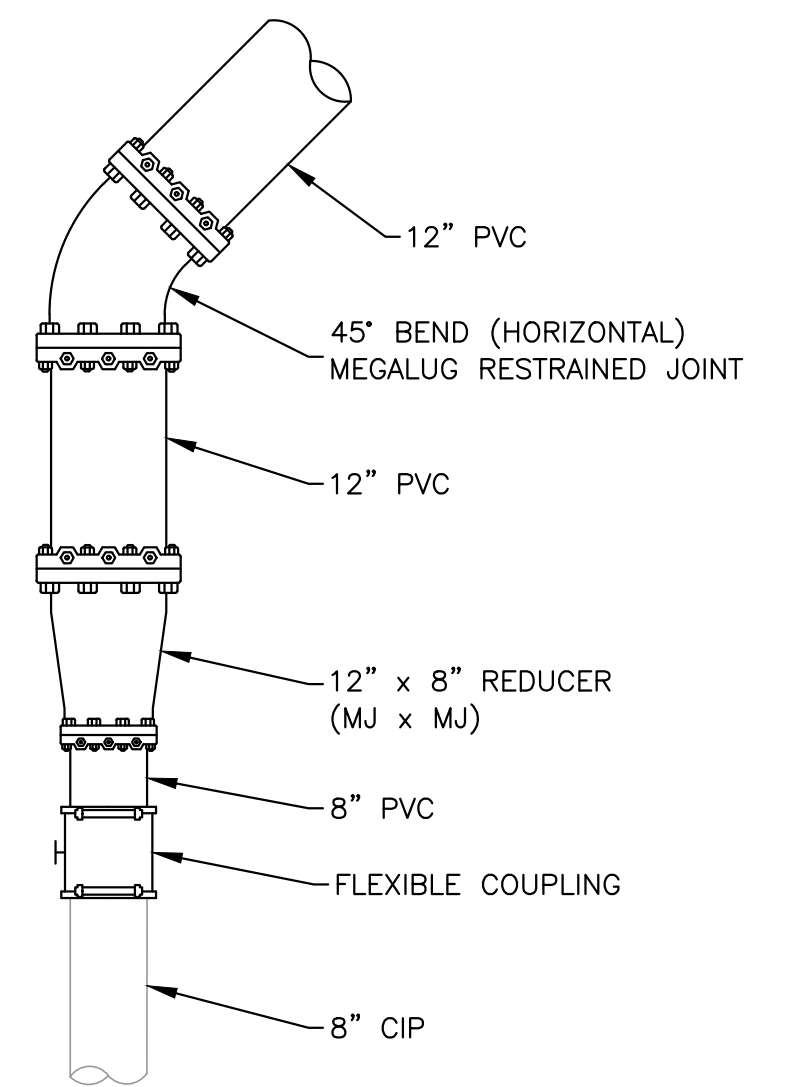
4 UNIVERSITY AVE & WEEKS ST CONNECTION
 SCALE: NO SCALE



2 UNIVERSITY AVE & MICHIGAN AVE CONNECTION
 SCALE: NO SCALE



5 UNIVERSITY AVE & SACRAMENTO ST CONNECTION
 SCALE: NO SCALE



7 UNIVERSITY AVE & RUNNYMEDE ST CONNECTION (WEST SIDE)
 SCALE: NO SCALE

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**UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
 CITY OF EAST PALO ALTO**

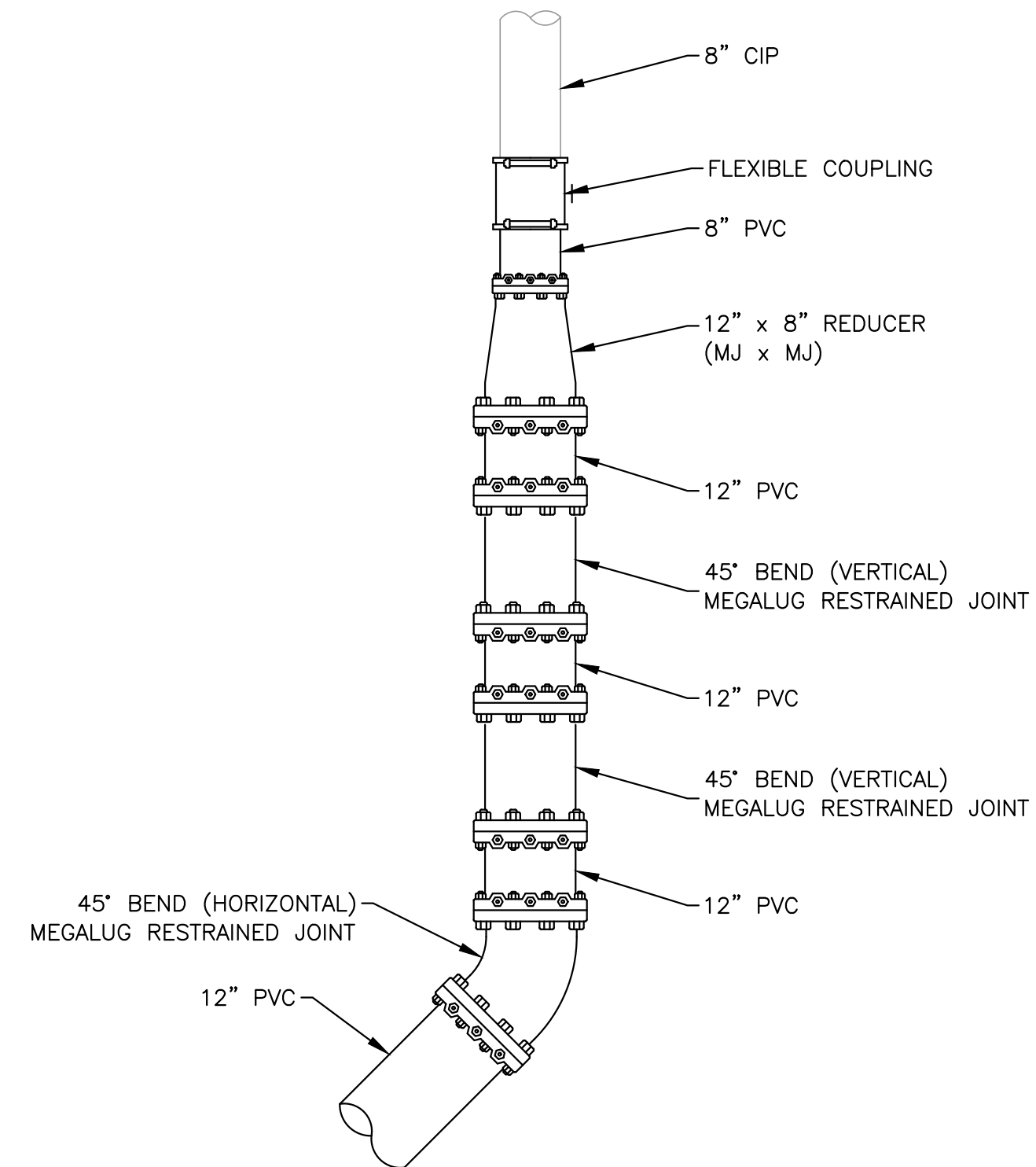
DETAIL SHEET

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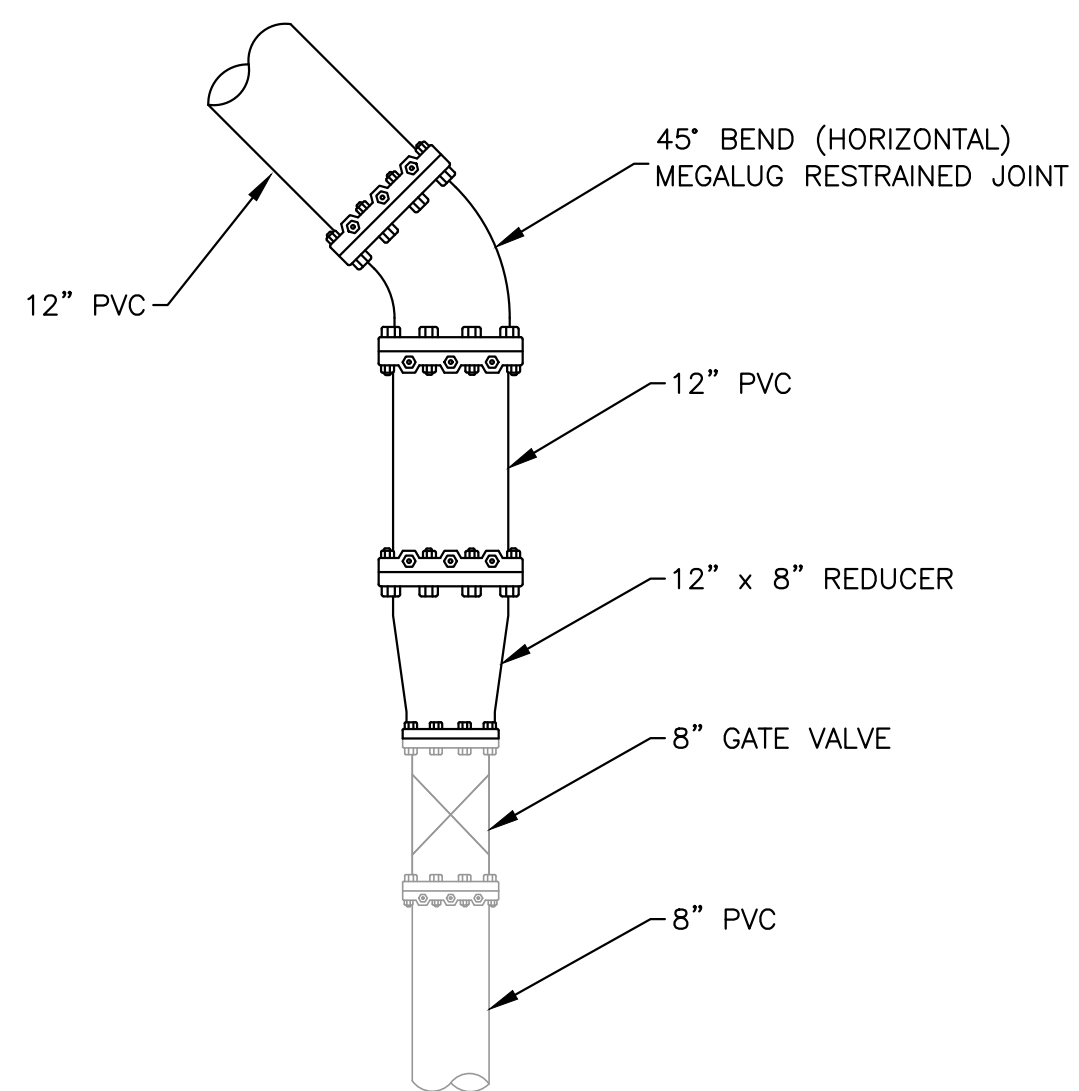
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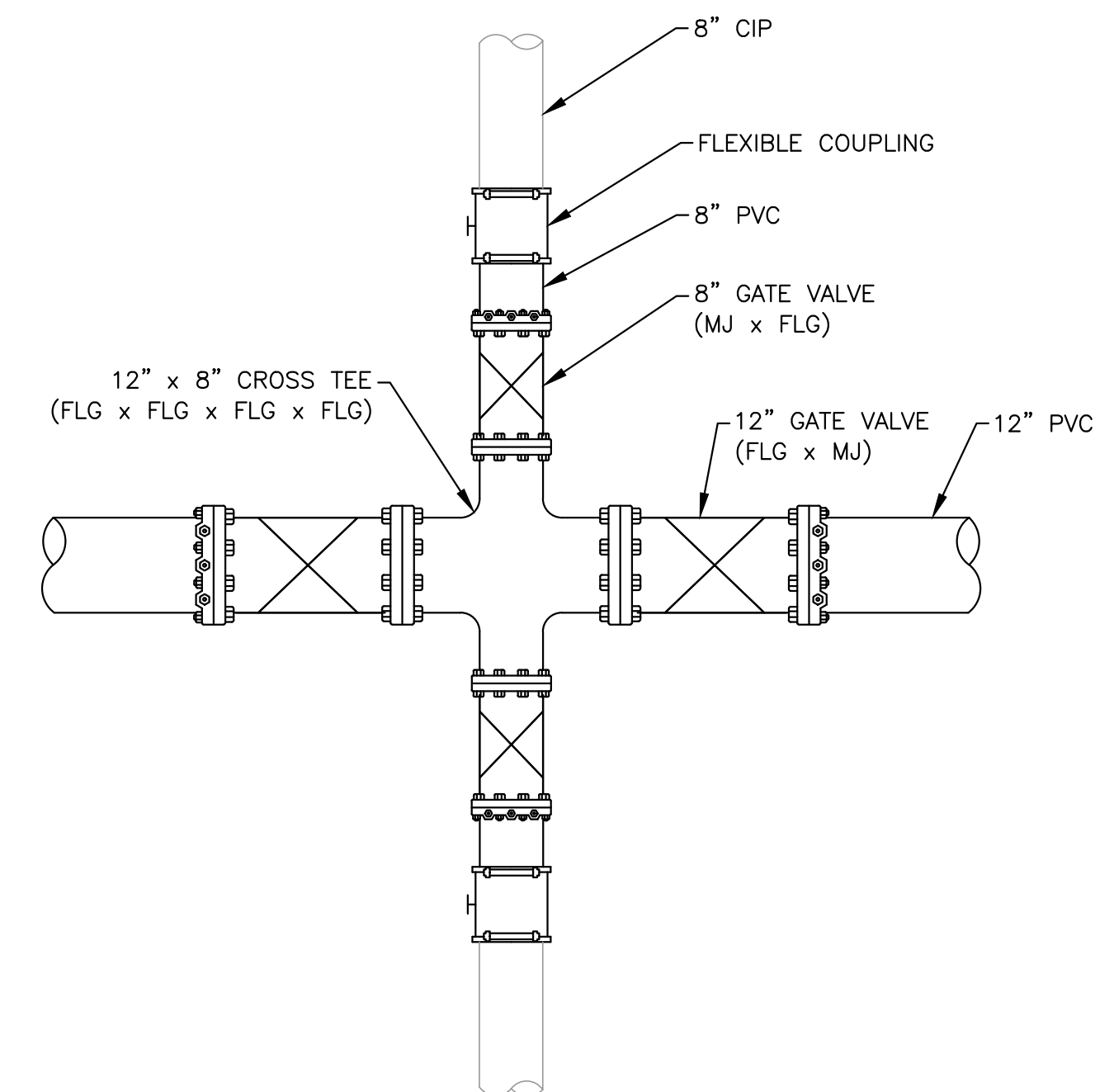
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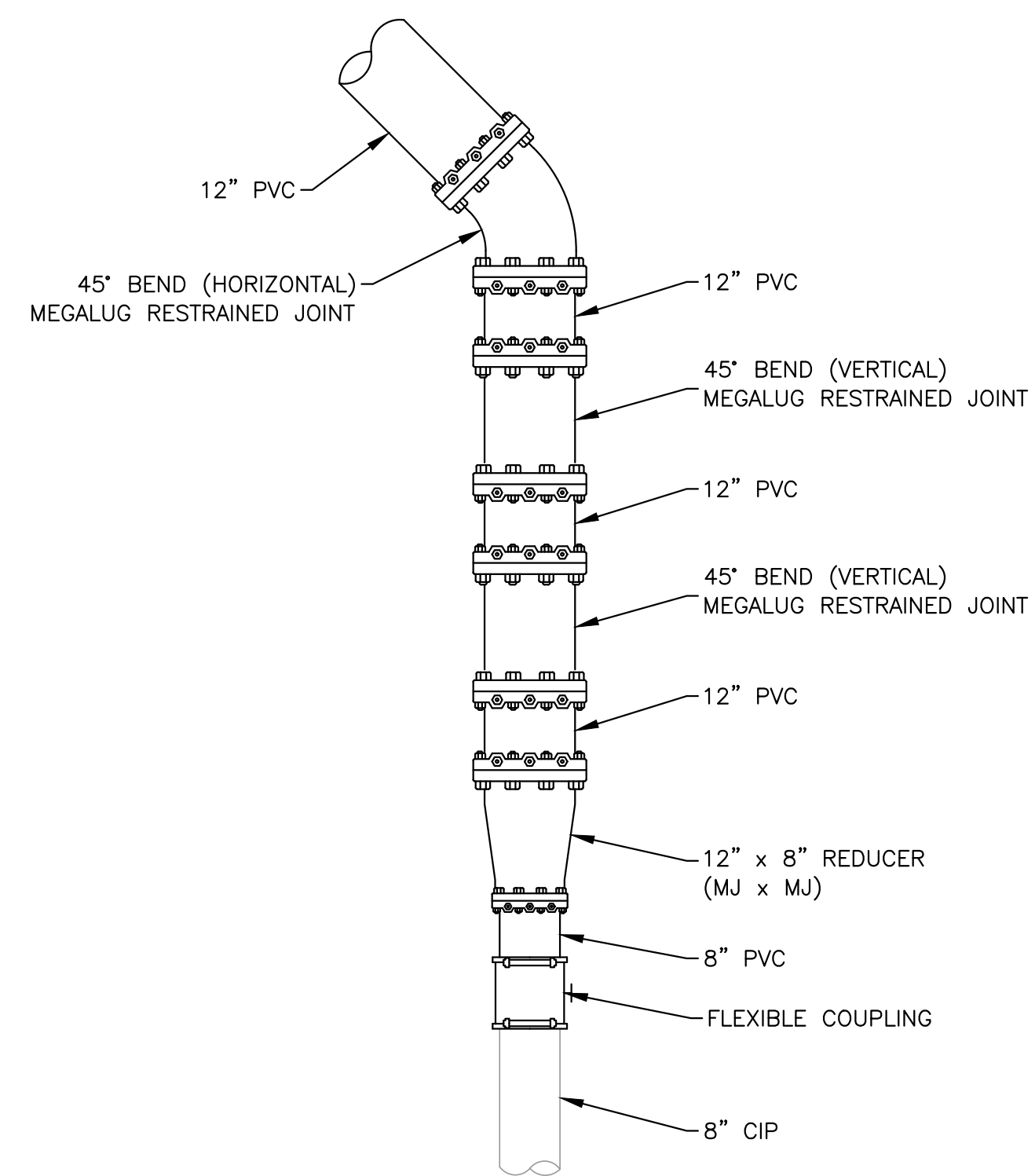
1 UNIVERSITY AVE & BELL ST CONNECTION (EAST SIDE)
SCALE: NO SCALE



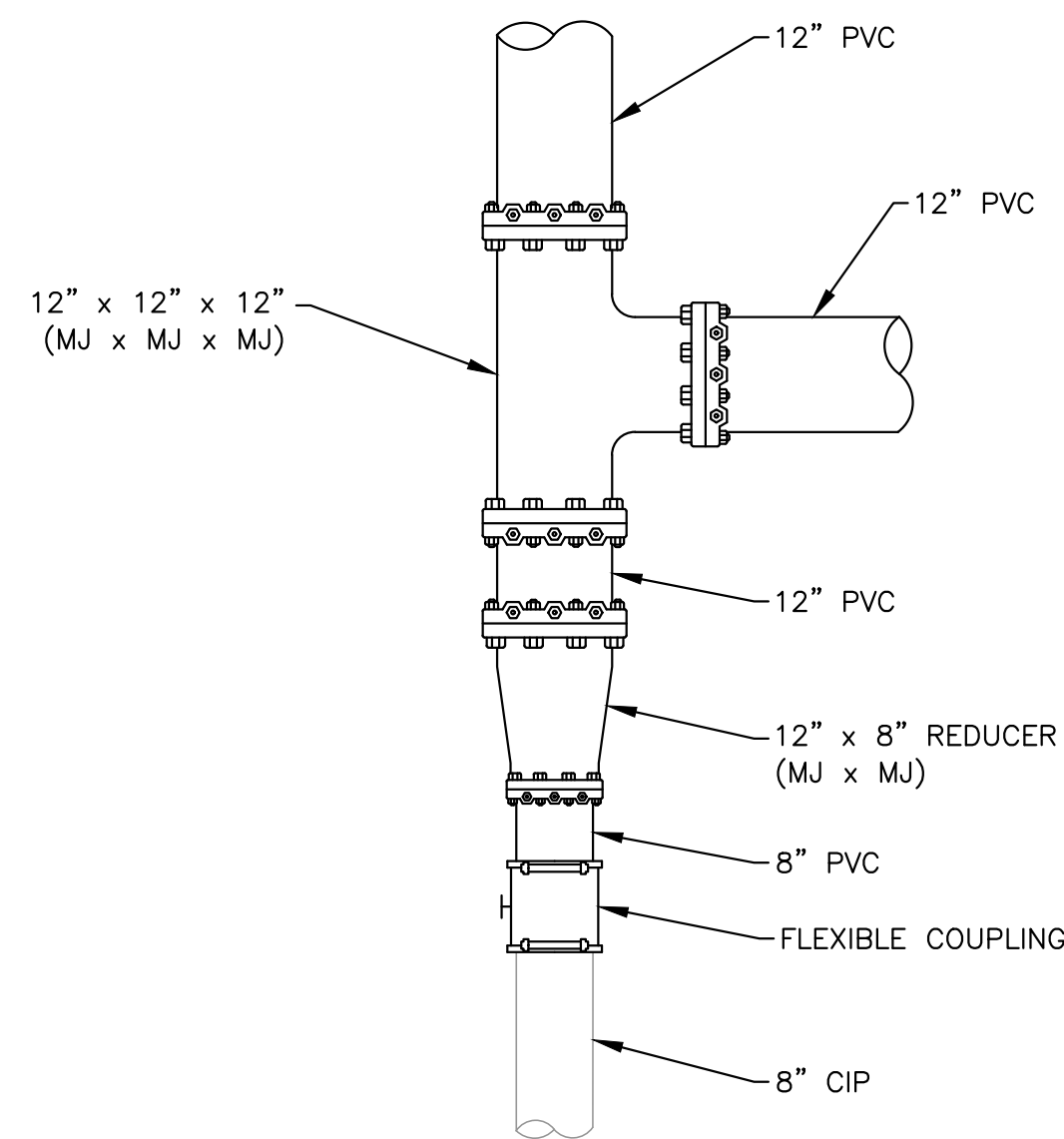
3 UNIVERSITY AVE & DONOHUE ST CONNECTION
SCALE: NO SCALE



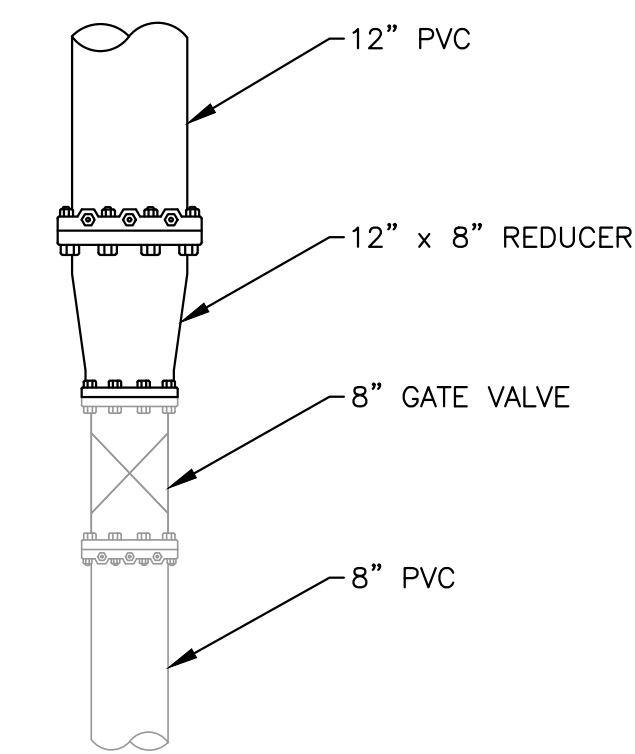
5 WEEKS ST & CLARKE AVE CONNECTION
SCALE: NO SCALE



2 UNIVERSITY AVE & BELL ST CONNECTION (WEST SIDE)
SCALE: NO SCALE



4 COOLEY AVE & WEEKS ST CONNECTION
SCALE: NO SCALE



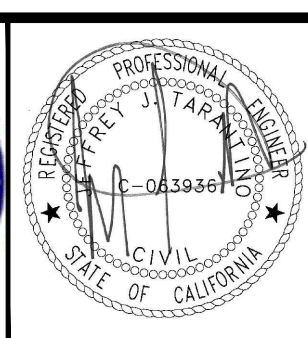
6 WEEKS ST & PULGAS AVE CONNECTION
SCALE: NO SCALE

DRAWING NAME: Z:\Projects\221 City of East Palo Alto\005_12inch Transmission Watermain\AAA Latest\Detail Sheet.dwg
PLOT DATE: 07-21-23 PLOTTED BY: kyau

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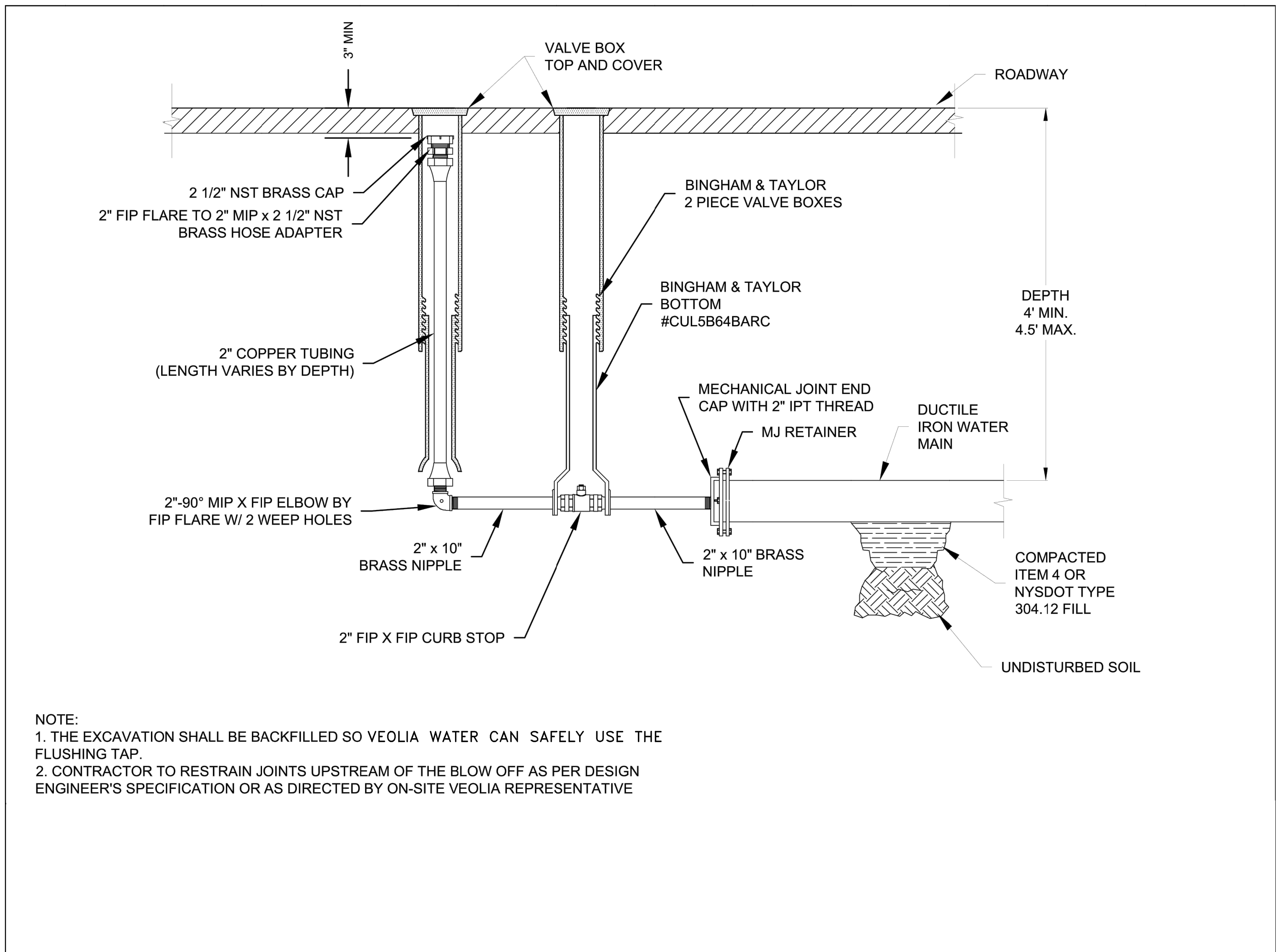
**UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
CITY OF EAST PALO ALTO**

DETAIL SHEET

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JOB NO.
221005

DRAWING NAME: Z:\Projects\221 City of East Palo Alto\005_12inch Transmission Watermain\AAA Latest\Detail Sheet.dwg
 PLOT DATE: 07-21-23 PLOTTED BY: kyau



NOTE:
 1. THE EXCAVATION SHALL BE BACKFILLED SO VEOLIA WATER CAN SAFELY USE THE FLUSHING TAP.
 2. CONTRACTOR TO RESTRAIN JOINTS UPSTREAM OF THE BLOW OFF AS PER DESIGN ENGINEER'S SPECIFICATION OR AS DIRECTED BY ON-SITE VEOLIA REPRESENTATIVE

1 BLOW OFF ASSEMBLY
 SCALE: NO SCALE

DATE:	7/21/23	4/14/23	90% SUBMITTAL (WEEKS ST)	
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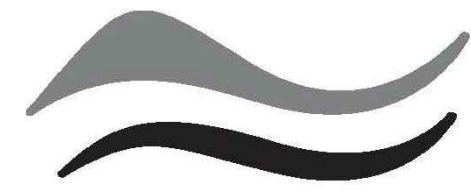
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UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
 CITY OF EAST PALO ALTO

DETAIL SHEET

SHEET
D-07
 JOB NO.
221005

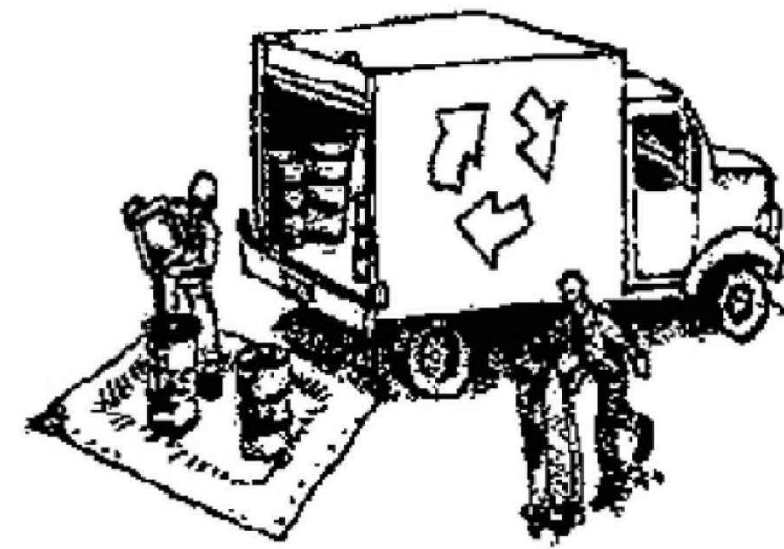


SAN MATEO COUNTYWIDE
Water Pollution Prevention Program
 Clean Water. Healthy Community.

Construction Best Management Practices (BMPs)

Construction projects are required to implement the stormwater best management practices (BMP) on this page, as they apply to your project, all year long.

Materials & Waste Management



Non-Hazardous Materials

- ❑ Berm and cover stockpiles of sand, dirt or other construction material with tarps when rain is forecast or if not actively being used within 14 days.
- ❑ Use (but don't overuse) reclaimed water for dust control.

Hazardous Materials

- ❑ Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, county, state and federal regulations.
- ❑ Store hazardous materials and wastes in water tight containers, store in appropriate secondary containment, and cover them at the end of every work day or during wet weather or when rain is forecast.
- ❑ Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecast within 24 hours.
- ❑ Arrange for appropriate disposal of all hazardous wastes.

Waste Management

- ❑ Cover waste disposal containers securely with tarps at the end of every work day and during wet weather.
- ❑ Check waste disposal containers frequently for leaks and to make sure they are not overfilled. Never hose down a dumpster on the construction site.
- ❑ Clean or replace portable toilets, and inspect them frequently for leaks and spills.
- ❑ Dispose of all wastes and debris properly. Recycle materials and wastes that can be recycled (such as asphalt, concrete, aggregate base materials, wood, gyp board, pipe, etc.)
- ❑ Dispose of liquid residues from paints, thinners, solvents, glues, and cleaning fluids as hazardous waste.

Construction Entrances and Perimeter

- ❑ Establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from site and tracking off site.
- ❑ Sweep or vacuum any street tracking immediately and secure sediment source to prevent further tracking. Never hose down streets to clean up tracking.

Equipment Management & Spill Control



Maintenance and Parking

- ❑ Designate an area, fitted with appropriate BMPs, for vehicle and equipment parking and storage.
- ❑ Perform major maintenance, repair jobs, and vehicle and equipment washing off site.
- ❑ If refueling or vehicle maintenance must be done onsite, work in a bermed area away from storm drains and over a drip pan big enough to collect fluids. Recycle or dispose of fluids as hazardous waste.
- ❑ If vehicle or equipment cleaning must be done onsite, clean with water only in a bermed area that will not allow rinse water to run into gutters, streets, storm drains, or surface waters.
- ❑ Do not clean vehicle or equipment onsite using soaps, solvents, degreasers, steam cleaning equipment, etc.

Spill Prevention and Control

- ❑ Keep spill cleanup materials (rags, absorbents, etc.) available at the construction site at all times.
- ❑ Inspect vehicles and equipment frequently for and repair leaks promptly. Use drip pans to catch leaks until repairs are made.
- ❑ Clean up spills or leaks immediately and dispose of cleanup materials properly.
- ❑ Do not hose down surfaces where fluids have spilled. Use dry cleanup methods (absorbent materials, cat litter, and/or rags).
- ❑ Sweep up spilled dry materials immediately. Do not try to wash them away with water, or bury them.
- ❑ Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
- ❑ Report significant spills immediately. You are required by law to report all significant releases of hazardous materials, including oil. To report a spill: 1) Dial 911 or your local emergency response number, 2) Call the Governor's Office of Emergency Services Warning Center, (800) 852-7550 (24 hours).

Earthwork & Contaminated Soils



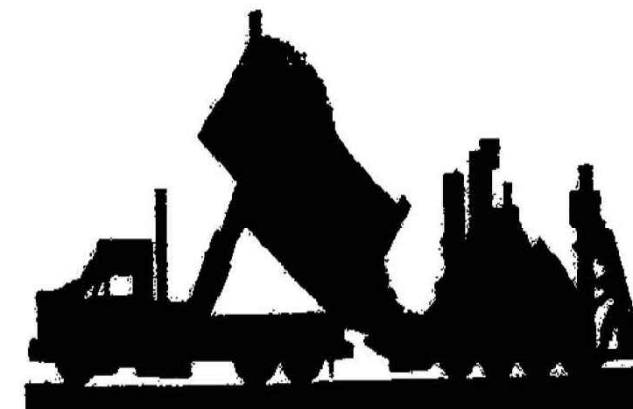
Erosion Control

- ❑ Schedule grading and excavation work for dry weather only.
- ❑ Stabilize all denuded areas, install and maintain temporary erosion controls (such as erosion control fabric or bonded fiber matrix) until vegetation is established.
- ❑ Seed or plant vegetation for erosion control on slopes or where construction is not immediately planned.

Sediment Control

- ❑ Protect storm drain inlets, gutters, ditches, and drainage courses with appropriate BMPs, such as gravel bags, fiber rolls, berms, etc.
- ❑ Prevent sediment from migrating offsite by installing and maintaining sediment controls, such as fiber rolls, silt fences, or sediment basins.
- ❑ Keep excavated soil on the site where it will not collect into the street.
- ❑ Transfer excavated materials to dump trucks on the site, not in the street.
- ❑ Contaminated Soils
- ❑ If any of the following conditions are observed, test for contamination and contact the Regional Water Quality Control Board:
 - Unusual soil conditions, discoloration, or odor.
 - Abandoned underground tanks.
 - Abandoned wells
 - Buried barrels, debris, or trash.

Paving/Asphalt Work



- ❑ Avoid paving and seal coating in wet weather, or when rain is forecast before fresh pavement will have time to cure.
- ❑ Cover storm drain inlets and manholes when applying seal coat, tack coat, slurry seal, fog seal, etc.
- ❑ Collect and recycle or appropriately dispose of excess abrasive gravel or sand. Do NOT sweep or wash it into gutters.
- ❑ Do not use water to wash down fresh asphalt concrete pavement.

Sawcutting & Asphalt/Concrete Removal

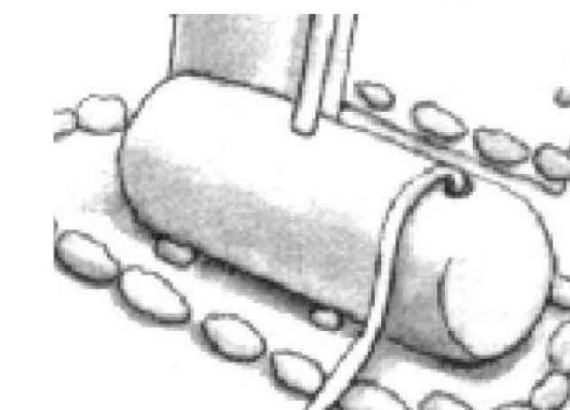
- ❑ Completely cover or barricade storm drain inlets when saw cutting. Use filter fabric, catch basin inlet filters, or gravel bags to keep slurry out of the storm drain system.
- ❑ Shovel, absorb, or vacuum saw-cut slurry and dispose of all waste as soon as you are finished in one location or at the end of each work day (whichever is sooner!).
- ❑ If sawcut slurry enters a catch basin, clean it up immediately.

Concrete, Grout & Mortar Application



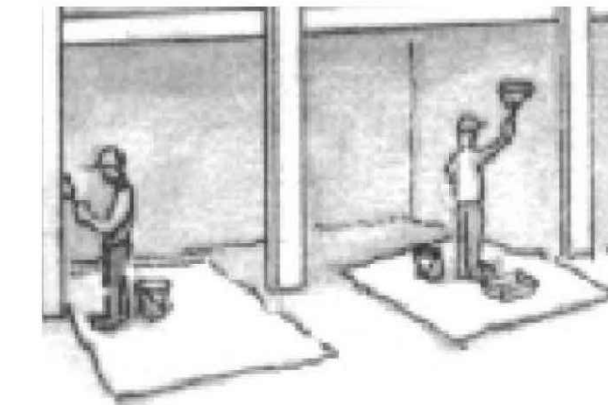
- ❑ Store concrete, grout and mortar under cover, on pallets and away from drainage areas. These materials must never reach a storm drain.
- ❑ Wash out concrete equipment/trucks offsite or in a contained area, so there is no discharge into the underlying soil or onto surrounding areas. Let concrete harden and dispose of as garbage.
- ❑ Collect the wash water from washing exposed aggregate concrete and remove it for appropriate disposal offsite.

Dewatering



- ❑ Effectively manage all run-on, all runoff within the site, and all runoff that discharges from the site. Divert run-on water from offsite away from all disturbed areas or otherwise ensure compliance.
- ❑ When dewatering, notify and obtain approval from the local municipality before discharging water to a street gutter or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.
- ❑ In areas of known contamination, testing is required prior to reuse or discharge of groundwater. Consult with the Engineer to determine whether testing is required and how to interpret results. Contaminated groundwater must be treated or hauled off-site for proper disposal.

Painting & Paint Removal



Painting cleanup

- ❑ Never clean brushes or rinse paint containers into a street, gutter, storm drain, or surface waters.
- ❑ For water-based paints, paint out brushes to the extent possible. Rinse to the sanitary sewer once you have gained permission from the local wastewater treatment authority. Never pour paint down a drain.
- ❑ For oil-based paints, paint out brushes to the extent possible and clean with thinner or solvent in a proper container. Filter and reuse thinners and solvents. Dispose of residue and unusable thinner/solvents as hazardous waste.

Paint removal

- ❑ Chemical paint stripping residue and chips and dust from marine paints or paints containing lead or tributyltin must be disposed of as hazardous waste.
- ❑ Paint chips and dust from non-hazardous dry stripping and sand blasting may be swept up or collected in plastic drop cloths and disposed of as trash.

Landscape Materials



- ❑ Contain stockpiled landscaping materials by storing them under tarps when they are not actively being used.
- ❑ Stack erodible landscape material on pallets. Cover or store these materials when they are not actively being used or applied.
- ❑ Discontinue application of any erodible landscape material within 2 days before a forecast rain event or during wet weather.

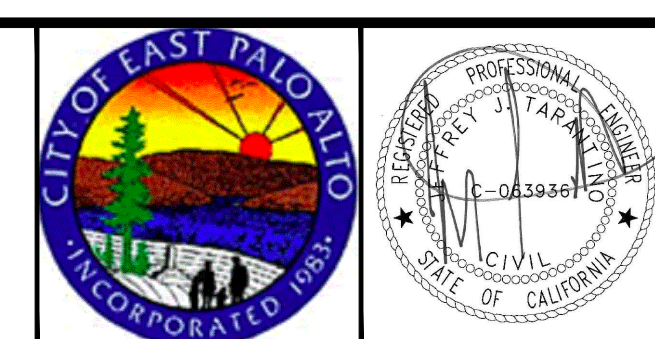
Storm drain polluters may be liable for fines of up to \$10,000 per day!

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UNIVERSITY AVENUE AND WEEKS STREET 12-INCH WATERMAIN PROJECT
CITY OF EAST PALO ALTO
CONSTRUCTION BEST MANAGEMENT PRACTICES

SHEET
D-08
 JOB NO.
221005