

APPENDIX 1

WELL NO. 8

WATER SUPPLY AND WELL

EQUIPPING PROJECT

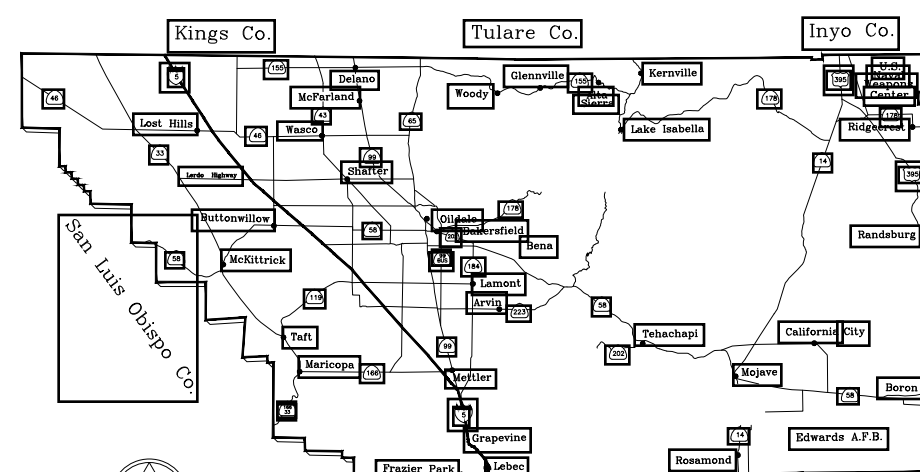
CAUTION:

CONTRACTOR SHALL CALL U.S.A. FOR
LOCATION OF UNDERGROUND UTILITIES
PRIOR TO EXCAVATION

CALL 1-800-642-2444 48 HRS.

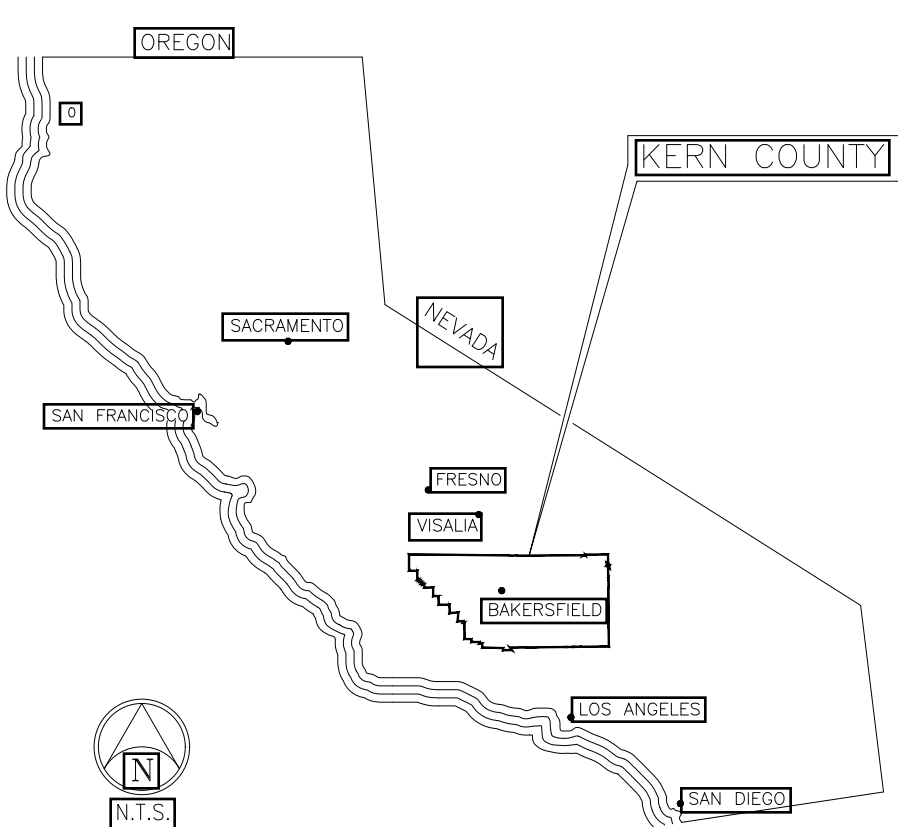
NOTE:

THE ENGINEER HAS MADE A DILIGENT SEARCH OF RECORDS, CONTACTED UTILITY COMPANIES AND OTHERWISE ENDEAVORED TO INDICATE ON THE DRAWINGS ALL UTILITIES WHICH EXIST WITHIN THE LIMITS OF THE WORK OF THIS PROJECT. HOWEVER, THE ENGINEER DOES NOT ASSUME RESPONSIBILITY FOR ERRORS OR OMISSIONS. THE CONTRACTOR SHALL CONTACT THE OWNERS OF THE UNDERGROUND FACILITIES AND REQUEST THEY LOCATE AND MARK ON THE GROUND THEIR FACILITIES PRIOR TO BEGINNING WORK. PRIOR TO DELIVERY OF ANY MATERIALS OR BEGINNING EXCAVATION FOR ANY CONSTRUCTION INCLUDING BUT NOT LIMITED TO SEWER LINES, WATER LINES, STORM DRAINS, STREETS, ETC. AND PRIOR TO BRINGING ANY ADDITIONAL MEN OR EQUIPMENT ON THE JOB, THE CONTRACTOR SHALL EXPOSE AND CONFIRM THE EXACT LOCATION AND ANY POSSIBLE CONFLICT WITH THE WORK TO BE PERFORMED. THE ENGINEER SHALL THEN DETERMINE IF ANY REVISIONS TO THE DESIGN ARE REQUIRED AND PREPARE ANY NECESSARY REVISIONS TO THE PLANS PRIOR TO THE CONTRACTOR PROCEEDING WITH ANY WORK ON OR AROUND THE AFFECTED LINE OR LINES. NO EXTRA COMPENSATION WILL BE ALLOWED FOR EXTRA COSTS INCURRED DUE TO THE CONTRACTOR'S FAILURE TO STRICTLY FOLLOW THIS PROCEDURE. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT APPLIES CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE DESIGN PROFESSIONAL(S) 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 THE DESIGN PROFESSIONAL(S).

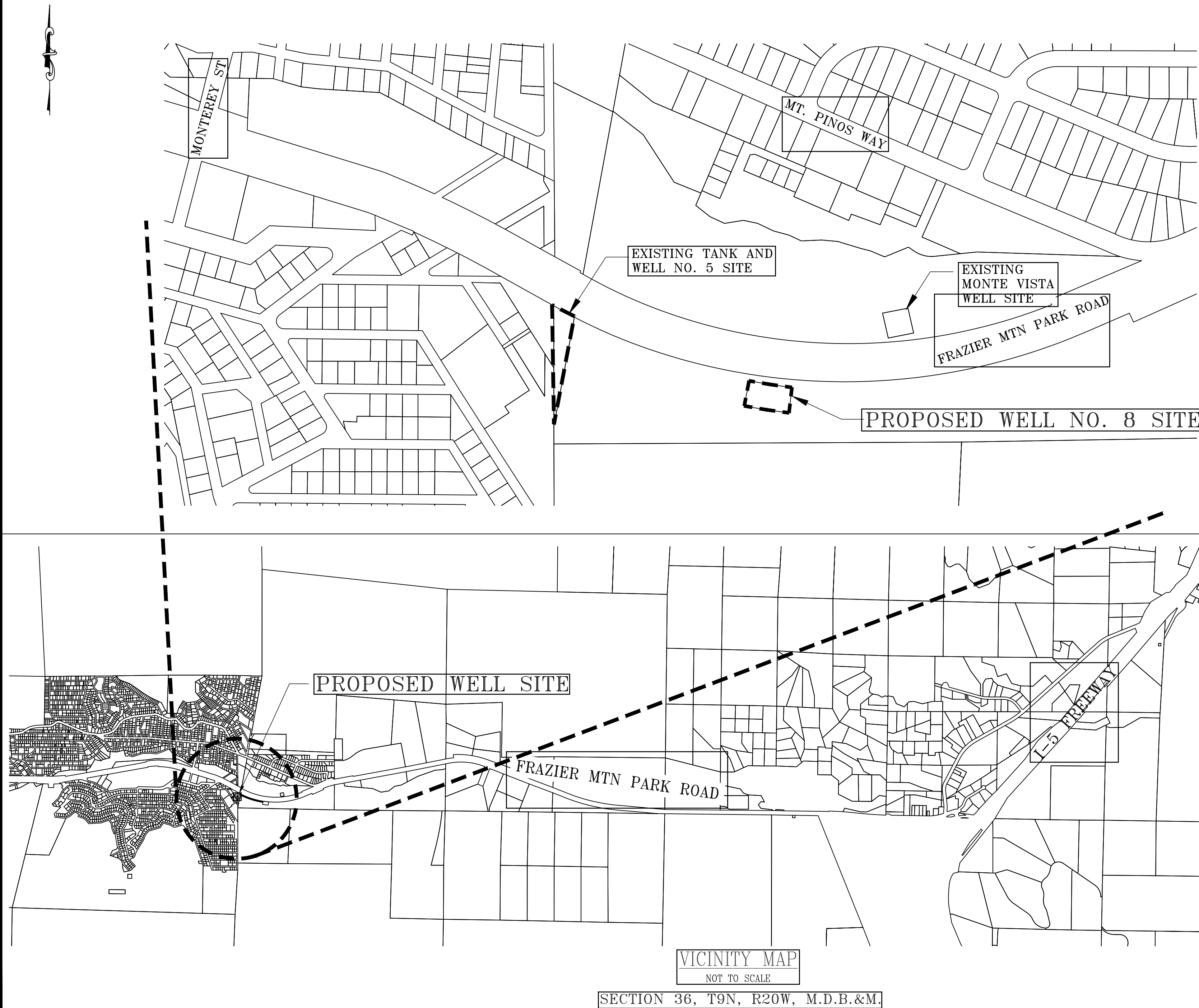


PROJECT

COUNTY OF KERN



STATE OF CALIFORNIA



SHEET INDEX

1	COVER SHEET
2	SITE PLAN
3	GRADING PLAN
4	WELL CROSS SECTION
5	WELL PUMP AND MOTOR
6	WELL DISCHARGE PIPING
7	PVC CONVEYANCE PIPING
8	MISCELLANEOUS DETAILS
9	MISCELLANEOUS DETAILS
10	BLOCK WALL DETAILS
11	BUILDING PLAN AND ELEVATION VIEW
12	ELECTRICAL SHADE STRUCTURE DETAIL
13	WELL MODIFICATION PLAN
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E03	ENLARGED WELL NO.8 SITE PLAN
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E05	CONTROL DIAGRAM
E06	PLC IO
E07	ELECTRICAL DETAILS
E08	ELECTRICAL DETAILS

CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS INCLUDING, BUT NOT LIMITED TO, A WELL DRILLING PERMIT.

CONTRACTOR SHALL PERFORM A USA LOCATE PRIOR TO COMMENCING ANY CONSTRUCTION.

DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
2730 UNICORN ROAD, BLDG A
BAKERSFIELD, CALIFORNIA 93308
PHONE (805) 393-4750
FAX (805) 393-4750

DESIGNED BY:
CURTIS M. SKAGGS

RCE 60960
(12-31-26)

APPROVED BY:
DEE JASPAR

RCE 23042
(12-31-25)

APPROVED BY:
JONNIE ALLISON, GENERAL MANAGER

DATE

FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

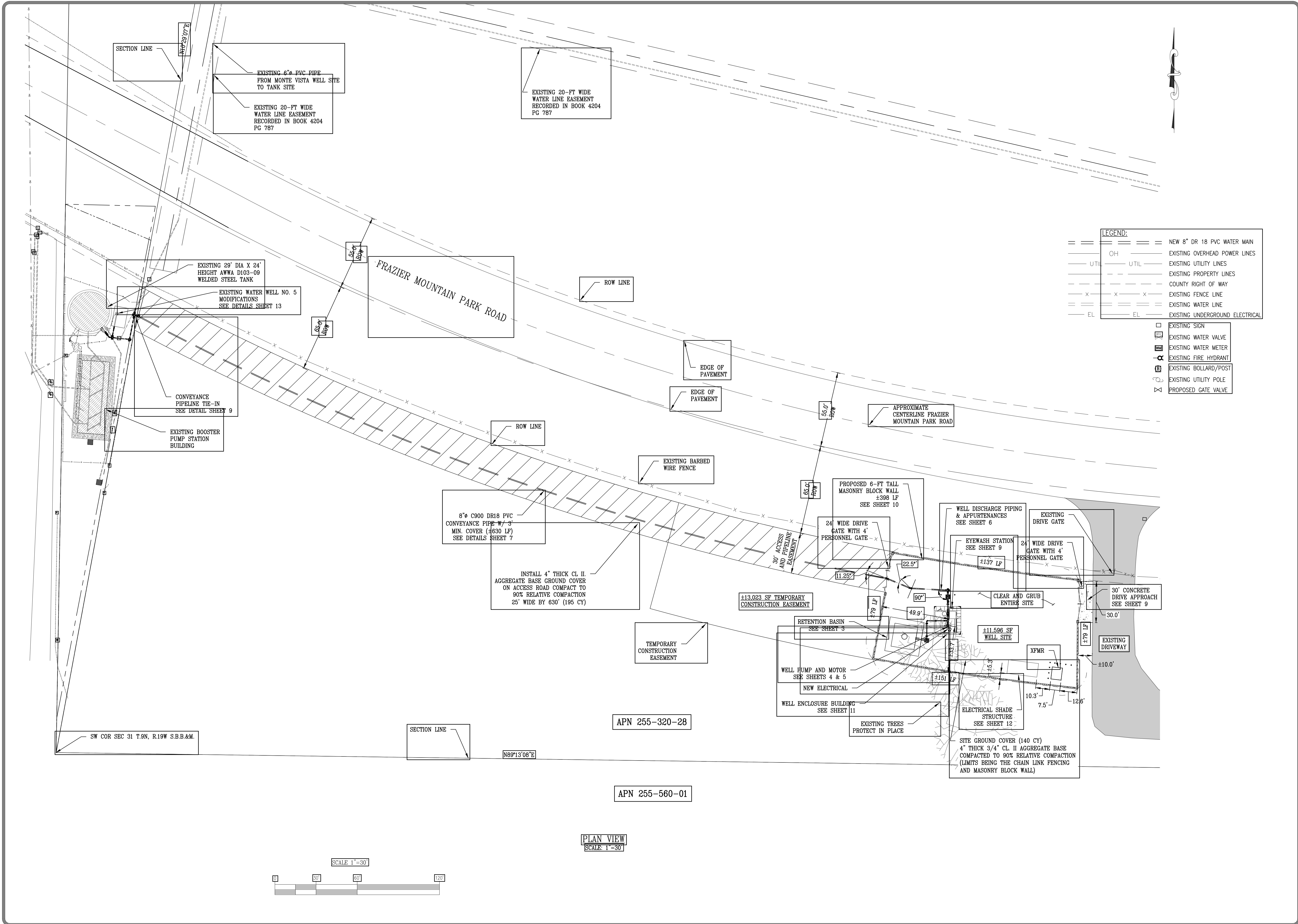
SEPTEMBER 2025

BASIS OF BEARINGS:

THE BEARING OF N09°44'17"E AS SHOWN FOR THE WEST LINE OF SEC 31 T.9S. R.19E. S.B.M., IN RECORD OF SURVEY NO. 3650, BOOK 31 PAGE 10, IN THE OFFICE OF THE KERN COUNTY RECORDER, WAS TAKEN AS THE BASIS OF BEARING FOR THIS SURVEY.

BENCHMARK:

4.663.72
NATIONAL GEODETIC SURVEY MONUMENT EW6916 (NAVD 88) DESIGNATION-J 1298. SURVEY DISC SET 0.3 FEET BELOW SURFACE OF GROUND, ACCESS TO WHICH IS HAD THROUGH A 4-INCH PLASTIC SCREW PLUG. IN THE NORTHWEST CORNER OF THE INTERSECTION OF MT. PINOS AND ANACAPA ROAD, BY A LARGE FLOWER GARDEN WITH ROCK WALL SURROUNDING IT, 25 FEET. WEST OF CENTER LINE OF ANACAPA ROAD, 24 FEET. NORTH OF CENTER LINE OF MT. PINOS ROAD, 3 FEET. SOUTH OF THE SOUTHEAST CORNER OF FLOWER GARDEN, 2 FEET WEST OF POWER POLE NUMBER 1421300E.



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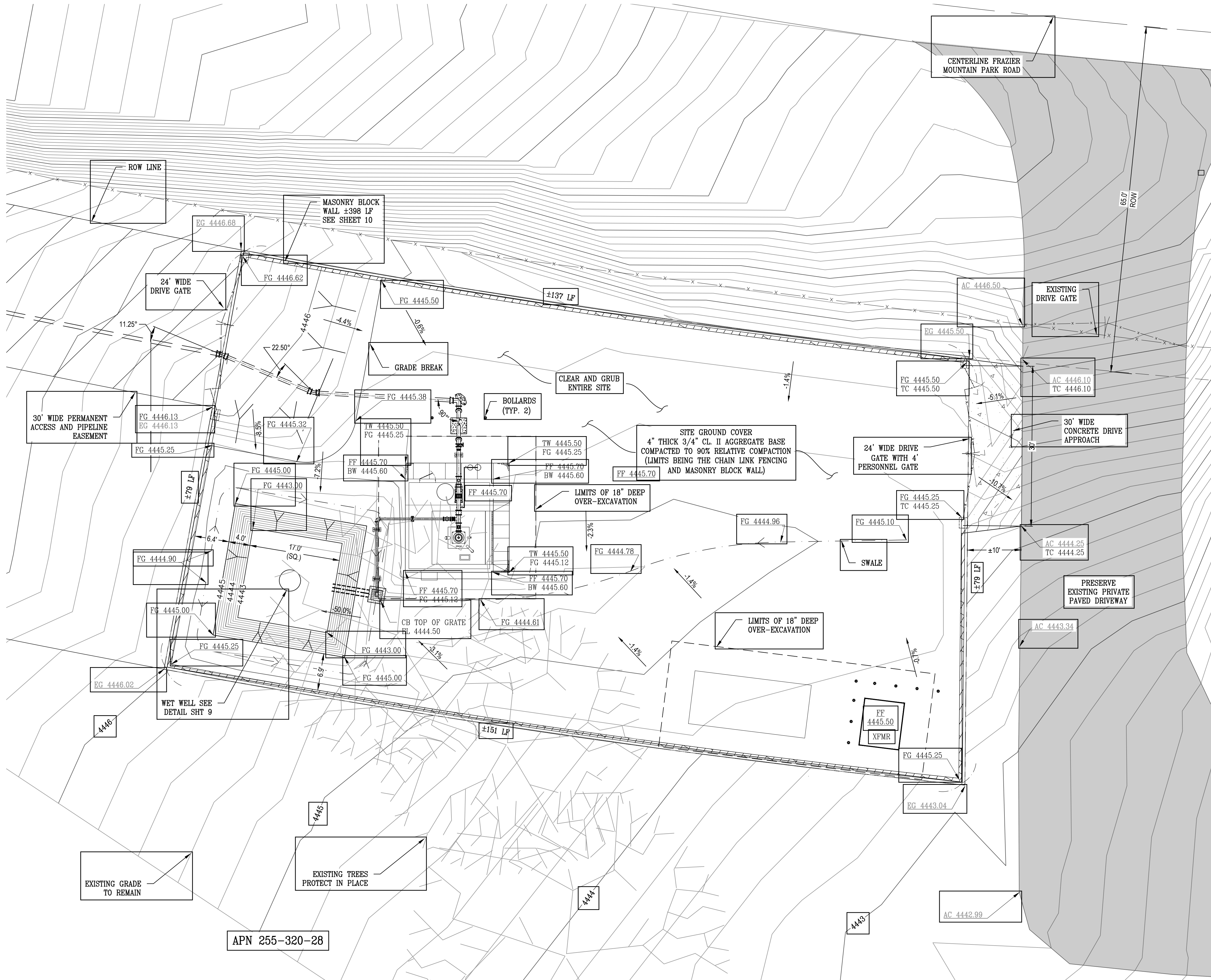
DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
2700 LINCOLN ROAD, SUITE 100
BAKERSFIELD, CALIFORNIA 93308
PHONE: (805) 333-1000
FAX: (805) 333-1001
PORTERVILLE, CALIFORNIA 93257

SITE PLAN

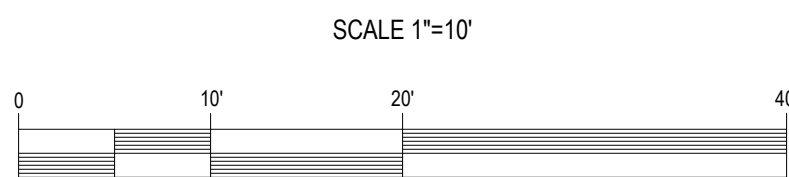
WATER SUPPLY AND WELL
EQUIPPING PROJECT

FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

DRAWN	ULT
CHECKED	CMS
DATE	09/25
SCALE	1"=30'
JOB NO.	
SHEET	2
OF	13
SHEETS	



PLAN VIEW
SCALE: 1"=10'



LEGEND:

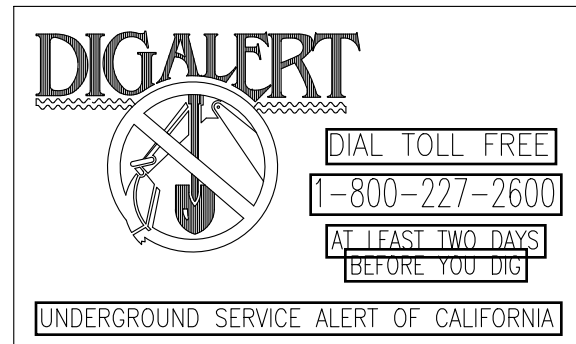
--- COUNTY RIGHT OF WAY
--- EXISTING PROPERTY LINES
--- UTIL --- UTIL --- EXISTING UTILITY LINES
--- X --- X --- X --- EXISTING FENCE
--- OH --- EXISTING OVERHEAD POWER LINES
--- W --- W --- EXISTING WATER LINE
--- EL --- EL --- EXISTING UNDERGROUND ELECTRICAL
--- TEL --- TEL --- EXISTING TELEPHONE LINES
--- FO --- FO --- EXISTING FIBER OPTIC

--- GAS --- GAS --- EXISTING GAS LINE
--- IRR --- IRR --- EXISTING IRRIGATION LINE
--- S --- S --- EXISTING SEWER LINE
--- SD --- SD --- EXISTING STORM DRAIN LINE
--- UTIL --- UTIL --- NEW 8" DR 18 PVC WATER MAIN
--- UTIL --- UTIL --- NEW UNDERGROUND UTILITIES

□ EXISTING SIGN
□ EXISTING MAIL BOX
□ EXISTING CABLE BOX
□ EXISTING CABLE MARKER
□ EXISTING WATER VALVE
□ EXISTING WATER METER
□ EXISTING STORM MANHOLE
□ EXISTING SEWER MANHOLE
⊙ EXISTING TREE
⊙ EXISTING BOLLARD/POST
⊙ EXISTING UTILITY POLE
⊙ PROPOSED BOLLARD
⊙ PROPOSED GATE VALVE

LEGEND:

PAVEMENT AREAS - MIN 2" ASPHALTIC CONCRETE OVER 4" COMPACTED BASE MATERIAL OVER 12" SUBGRADE
EXISTING PAVEMENT - 9" THICK W/ #4 REINFORCED @ 12" O/C, EACH WAY OVER AN 8" COMPACTED SUBGRADE
CONCRETE AREAS
EXISTING CONCRETE



NOTE:

THE ENGINEER HAS MADE A DILIGENT SEARCH OF RECORDS, CONTACTED UTILITY COMPANIES AND OTHERWISE ENDEAVORED TO INDICATE ON THE DRAWINGS ALL UTILITIES WHICH EXIST WITHIN THE LIMITS OF THE WORK OF THIS PROJECT. HOWEVER, SINCE THE LOCATIONS AND DESCRIPTIONS WERE NOT ALL OBTAINED FROM ACTUAL FIELD SURVEYS, THE ENGINEER DOES NOT ASSUME RESPONSIBILITY FOR ERRORS OR OMISSIONS. THE CONTRACTOR SHALL CONTACT THE OWNERS OF THE UNDERGROUND FACILITIES AND REQUEST THEY LOCATE AND MARK ON THE GROUND THEIR FACILITIES PRIOR TO BEGINNING WORK. PRIOR TO DELIVERY OF ANY MATERIALS OR BEGINNING EXCAVATION FOR ANY CONSTRUCTION INCLUDING BUT NOT LIMITED TO SEWER LINES, WATER LINES, STORM DRAINS, STREETS, ETC. AND PRIOR TO BRINGING ANY ADDITIONAL MEN OR EQUIPMENT ON THE JOB, THE CONTRACTOR SHALL CORRECT AND CONFIRM THE EXACT LOCATION AND ANY POSSIBLE CONFLICT WITH THE WORK TO BE PERFORMED. THE ENGINEER SHALL THEN DETERMINE IF ANY REVISIONS TO THE DESIGN ARE REQUIRED AND PREPARE ANY NECESSARY REVISIONS TO THE PLANS PRIOR TO THE CONTRACTOR PROCEEDING WITH ANY WORK ON OR AROUND THE AFFECTED LINE OR LINES. NO EXTRA COMPENSATION WILL BE ALLOWED FOR EXTRA COSTS INCURRED DUE TO THE CONTRACTOR'S FAILURE TO STRICTLY FOLLOW THIS PROCEDURE.

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THIS REQUIREMENT APPLIES CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE DESIGN PROFESSIONAL(S) 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 THE DESIGN PROFESSIONAL(S).

NOTES:

1. CONTRACTOR SHALL PERFORM A U.S.A. LOCATE PRIOR TO COMMENCING CONSTRUCTION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL AT ALL TIMES.
3. CONTRACTOR SHALL CLEAR AND GRUB THE ENTIRE SITE PRIOR TO COMMENCING CONSTRUCTION. ALL MATERIAL GENERATED BY CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF SITE AT THE CONTRACTOR'S EXPENSE.
4. AREAS TO RECEIVE FILL SHALL BE SCARIFIED 8-INCHES, MOISTURE CONDITIONED, AND RE-COMPACTED TO 90% RELATIVE COMPACTION.
5. CONTRACTOR SHALL OVER-EXCAVATE AND RE-COMPACT TO 90% RELATIVE COMPACTION TO A DEPTH OF 18-INCHES BENEATH AND 5-FT BEYOND ALL CONCRETE FOUNDATIONS.
6. CONTRACTOR SHALL PROTECT EXISTING TREES. TREES SHALL NOT BE REMOVED, DISTURBED, OR HARMED BY CONSTRUCTION ACTIVITY.

LEGEND:

429.96 EXISTING ELEVATIONS
ENCLINE
+32.00 FINISHED GRADE SURFACE CONTOUR
FG DESIGN FINISH GRADE
FL DESIGN FLOWLINE
GB DESIGN GRADE BREAK
AC TOP OF AC PAVING
TP TOP OF CONCRETE PAVING
TW TOP OF CONCRETE WALKWAY
BW BACK OF CONCRETE SIDEWALK
TC TOP OF CONCRETE CURB
FF FINISH FLOOR OF BUILDING
EG EXISTING GRADE
--- DRAINAGE SWALE

ESTIMATED EARTHWORK QUANTITIES:

+84 CY "NEAT LINE" CUT
+336 CY "NEAT LINE" FILL

CONTRACTOR SHALL PERFORM AN INDEPENDENT EARTHWORK QUANTITY CALCULATION AND NOTIFY THE ENGINEER OF ANY DISCREPANCY PRIOR TO BID TIME.

BENCHMARK: 4.663.72

NATIONAL GEODETIC SURVEY MONUMENT EW6916 (NAVD 88) DESIGNATION-J 1298. SURVEY DISC SET 0.3 FEET BELOW SURFACE OF GROUND, ACCESS TO WHICH IS HAD THROUGH A 4-INCH PLASTIC SCREW PLUG. IN THE NORTHWEST CORNER OF THE INTERSECTION OF MT. PINOS AND ANACAPA ROAD, BY A LARGE FLOWER GARDEN WITH ROCK WALL SURROUNDING IT, 25 FEET. WEST OF CENTER LINE OF ANACAPA ROAD, 24 FEET. NORTH OF CENTER LINE OF MT. PINOS ROAD, 3 FEET. SOUTH OF THE SOUTHEAST CORNER OF FLOWER GARDEN, 2 FEET WEST OF POWER POLE NUMBER 1421300E.

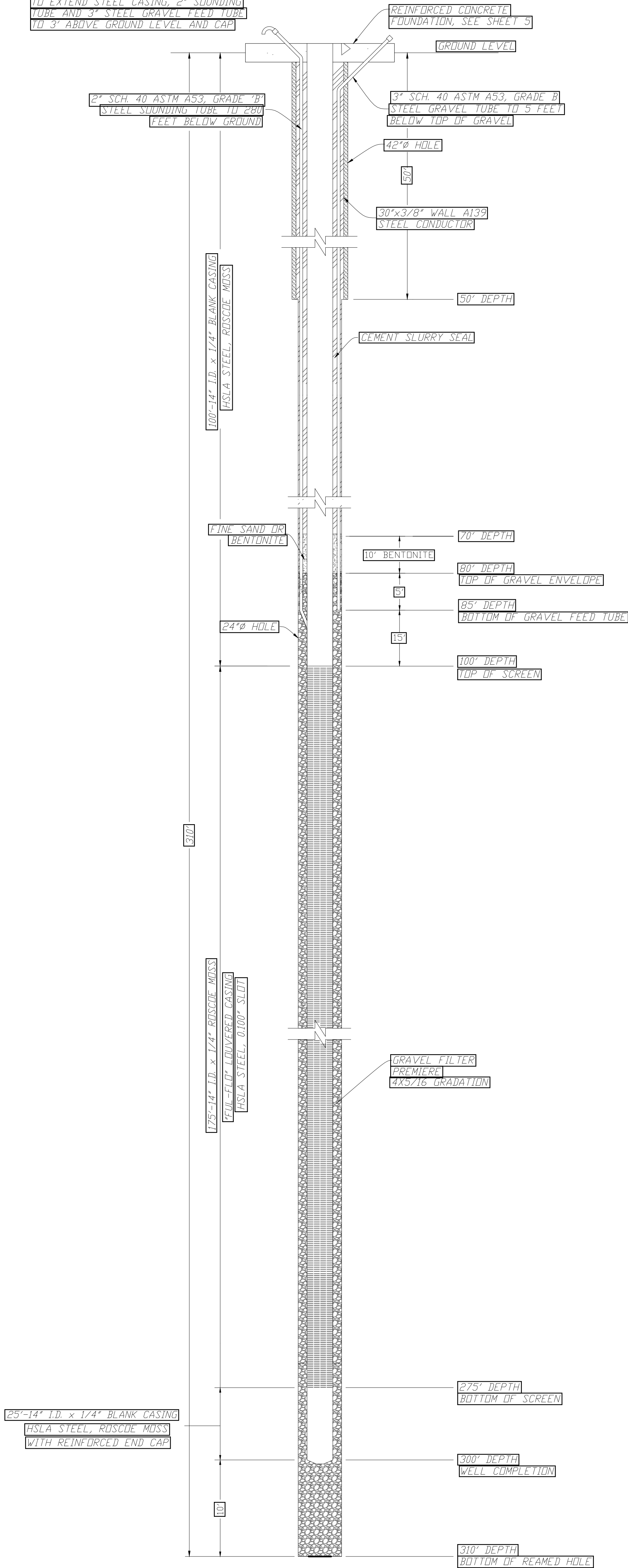
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DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
808 N. MAIN STREET, 4B
BAKERSFIELD, CALIFORNIA 93308
PHONE 805-293-7293
FAX 805-293-7293

GRADING PLAN
WATER SUPPLY AND WELL
EQUIPPING PROJECT
FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

DRAWN	JLT
CHECKED	CMS
DATE	09/25
SCALE	1"=10'
JOB NO.	
SHEET	3
OF	13
SHEETS	

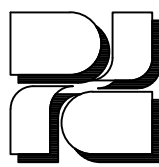
NOTE: WELL DRILLING CONTRACTOR
TO EXTEND STEEL CASING, 2" SOUNDING
TUBE AND 3" STEEL GRAVEL FEED TUBE
TO 3' ABOVE GROUND LEVEL AND CAP



WELL CROSS SECTION

WATER SUPPLY AND WELL
EQUIPPING PROJECT

FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

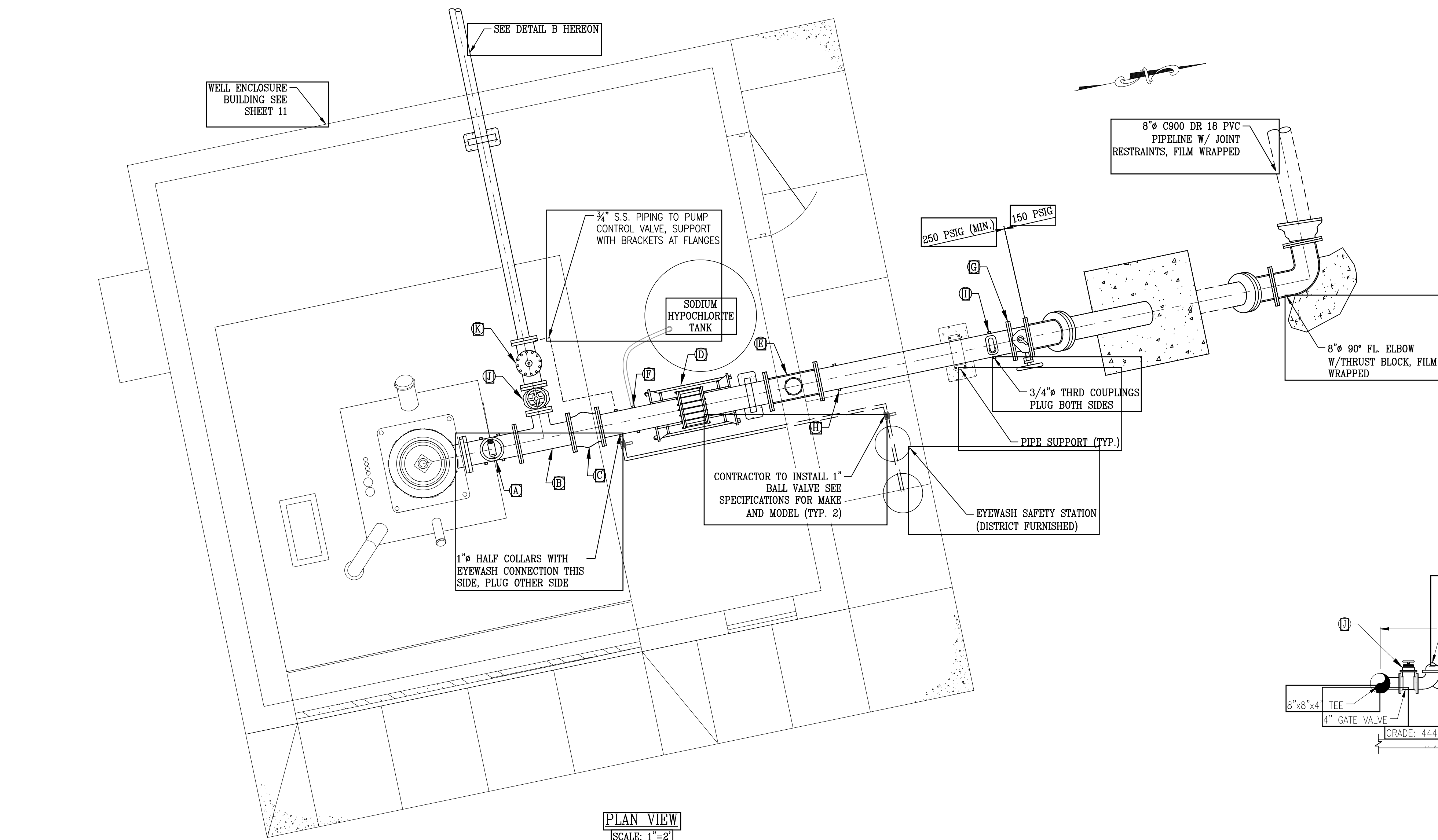


DEE JASPAR & ASSOCIATES, INC.
CIVIL • ENGINEERS
2730 UNICORN ROAD, BLDG. A
BAKERSFIELD, CALIFORNIA 93308
15 W. PUTNAM AVENUE, 2ND FLOOR
PORTERVILLE, CALIFORNIA 93257

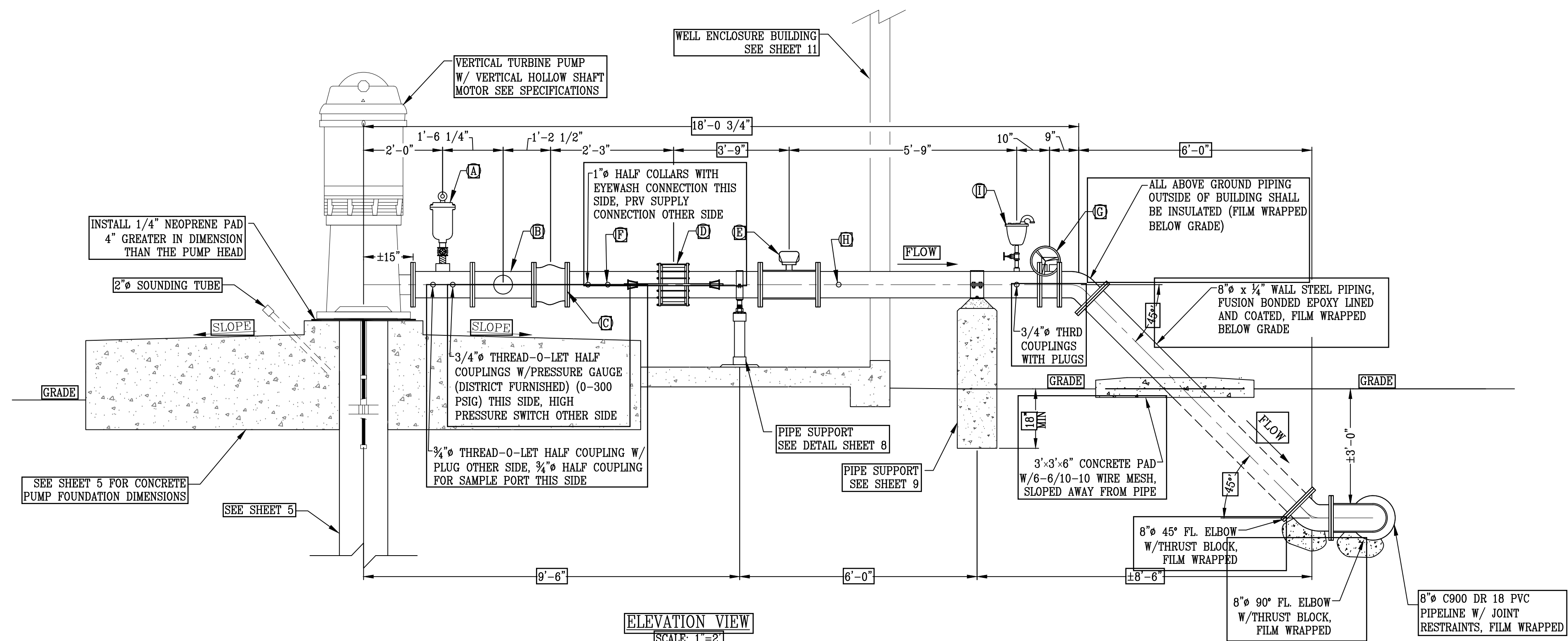
PHONE (805) 831-4255
FAX (805) 831-4255
PHONE (559) 783-9285
FAX (559) 783-9275

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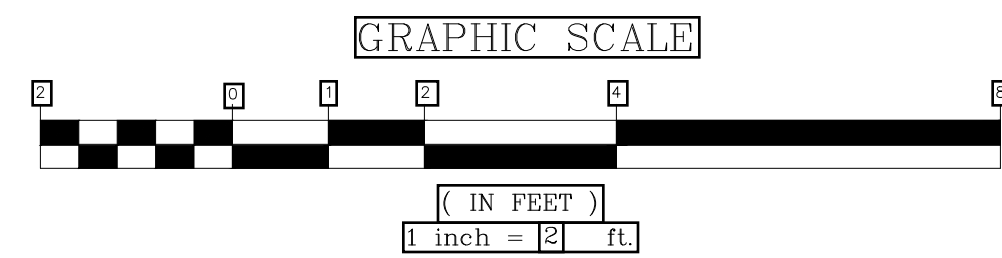
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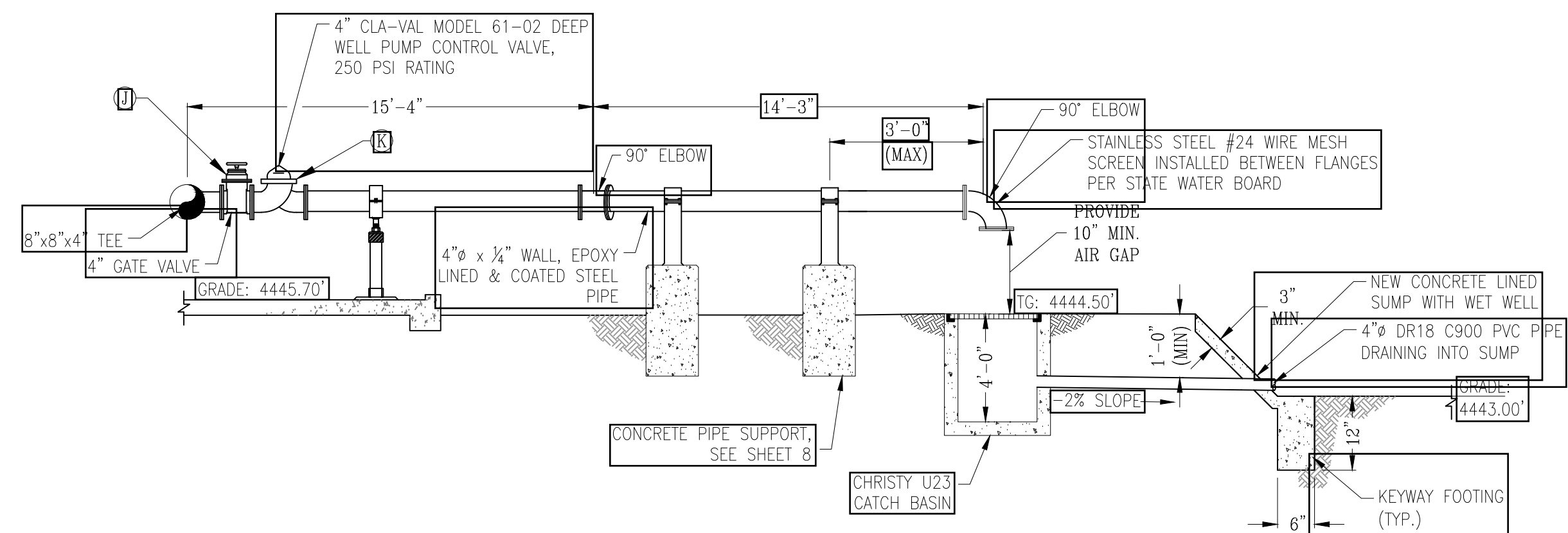
PLAN VIEW
SCALE: 1"=2'



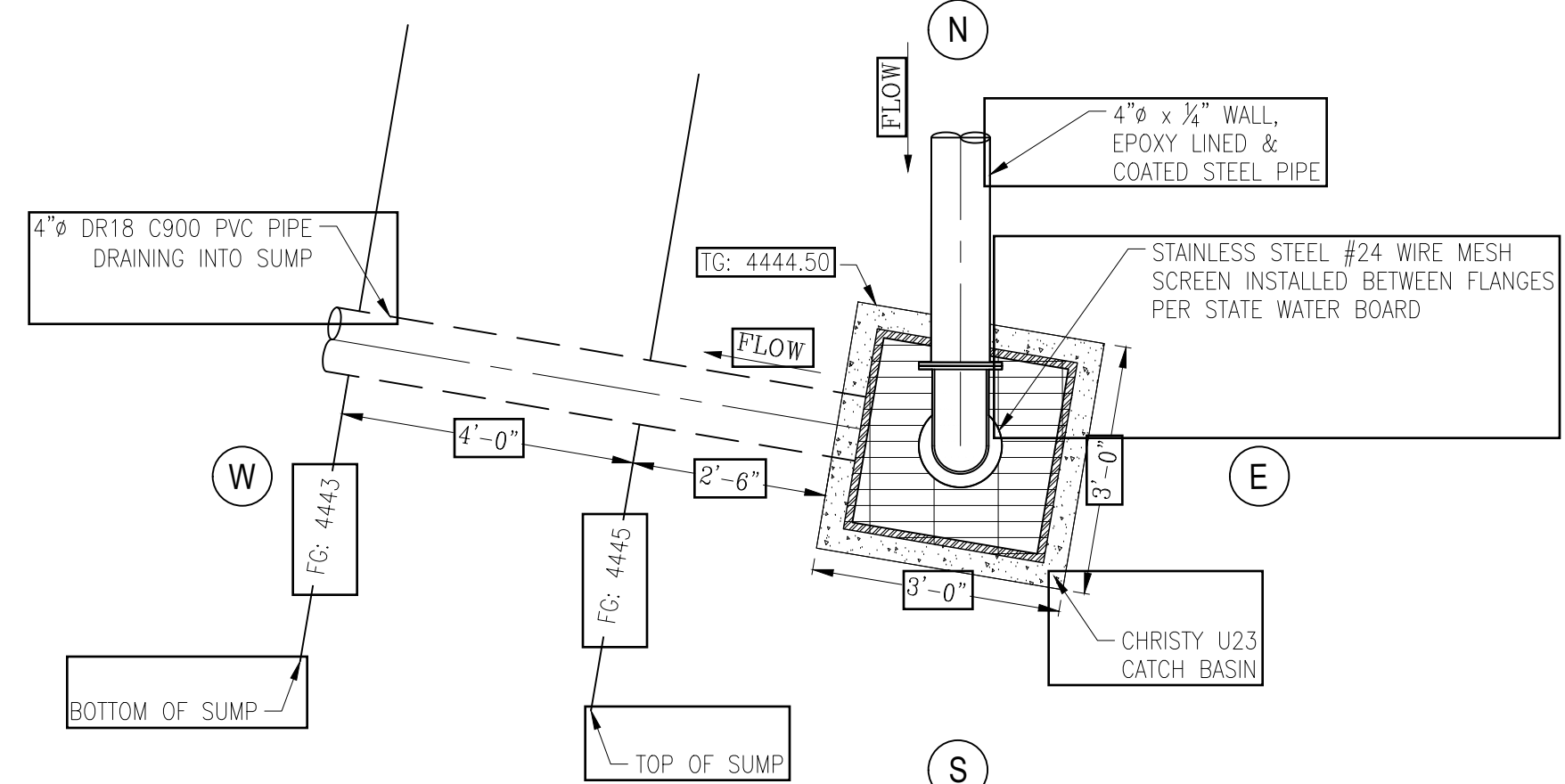
ELEVATION VIEW
SCALE: 1"=2'



LETTER DESIGNATION	ITEM	ITEM SPECIFICATION
(A)	2" APCO DEEP WELL ARV	2" APCO VERTICAL TURBINE ARV MODEL 142DAT W/DOUBLE ACTING THROTTLING DEVICE, ISOLATION VALVE, AND SCREENED OUTLET, 300 PSI RATING
(B)	8"x8"x4" TEE	8"x8"x4" FUSION BONDED EPOXY LINED & COATED STEEL TEE
(C)	CHECK VALVE	6" CHECK VALVE, APCO SERIES 600, GLOBE STYLE, 300 LB A.S.A. PRESSURE CLASS
(D)	DRESSER COUPLING W/ JOINT HARNESSSES	6" STYLE 38 DRESSER COUPLING FOR STEEL PIPE, W/AWWA M11 JOINT HARNESSSES, 300 PSI RATING
(E)	8" FLOW METER	300 PSI FLANGED WATER SPECIALTIES UM-68 MAG METER WITH ABOVE GROUND DISPLAY ENCLOSURE
(F)	1" HALF COLLARS	1" THREAD-0-LET COUPLINGS W/CHEMICAL INJECTION PORT AND PLUG
(G)	6" BUTTERFLY VALVE	6" AWWA C504 FLANGED BUTTERFLY VALVE W/8" HANDWHEEL OPERATOR, 300 PSI RATING
(H)	3/4" HALF COLLARS	3/4" THREAD-0-LET COUPLINGS W/PRESSURE GAUGE (0-150 PSI) AND PRESSURE TRANSMITTER THIS SIDE, SAMPLE PORT OTHER SIDE
(I)	2" COMBINATION ARV	2" ARI COMBINATION AIR RELEASE VALVE MODEL D040 (DISTRICT FURNISHED) W/ISOLATION VALVE, SCREENED OUTLET (0-40 PSI OPERATING PRESSURE), 250 PSI RATING
(J)	GATE VALVE	4" AWWA C504 FLANGED GATE VALVE W/ HANDWHEEL OPERATOR, 250 PSI RATING
(K)	PUMP CONTROL VALVE	4" CLA-VAL MODEL 61-02 DEEP WELL PUMP CONTROL VALVE, 250 PSI RATING, INSTALL 3/4" S.S. PIPING TO LOCATION SHOWN ON DISCHARGE PIPING, SUPPORT AS DIRECTED BY ENGINEER



DETAIL B
PUMP CONTROL VALVE ELEVATION VIEW
NOT TO SCALE



CATCH BASIN
NOT TO SCALE

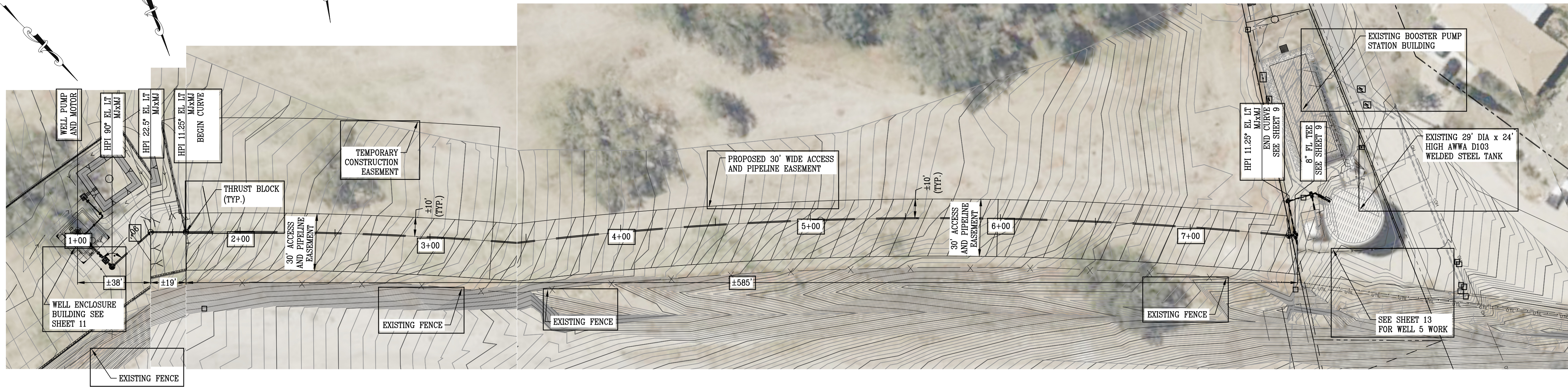
WELL DISCHARGE PIPING

WATER SUPPLY AND WELL
EQUIPPING PROJECT

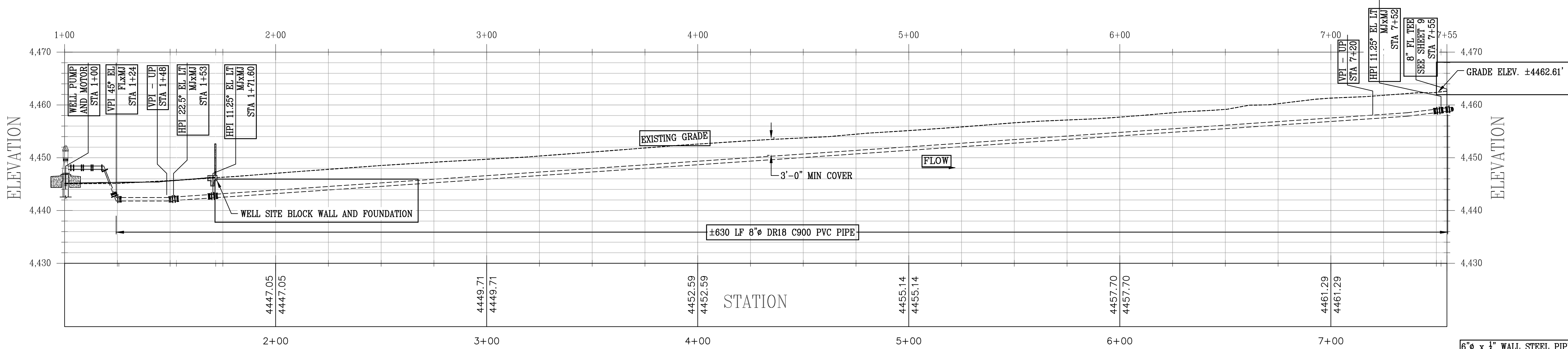
FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

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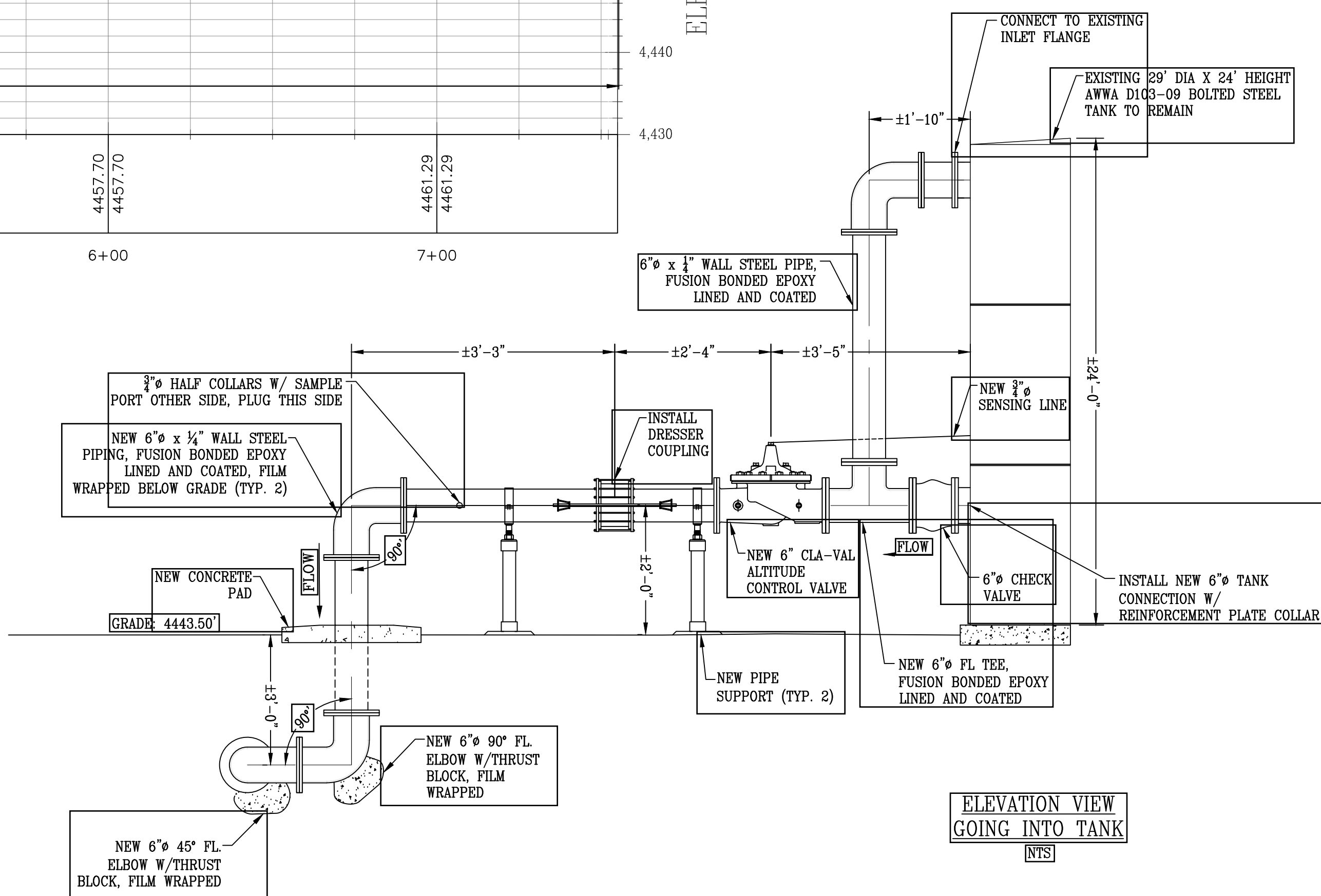
DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
3701 PEBASUS DRIVE, SUITE 100
BAGUIPULCA, CALIFORNIA 93557
PHONE (916) 251-1000
FAX (916) 251-1001



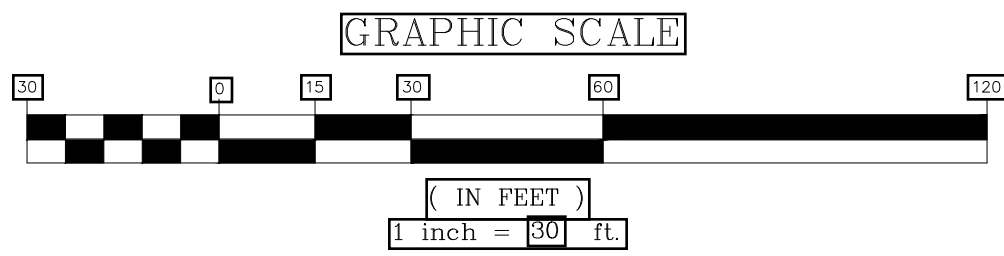
PLAN VIEW
SCALE: 1"=30'



ELEVATION VIEW
SCALE: 1"=30'



- NOTES:
1. ALL DUCTILE IRON OR STEEL FITTINGS AND VALVES BELOW GRADE SHALL BE FILM WRAPPED AND TAPED.
 2. ALL FITTINGS AND VALVES BELOW GRADE SHALL INCLUDE JOINT RESTRAINTS AND A CONCRETE THRUST BLOCK.
 3. ALL BACKFILL SHALL BE COMPACTED TO A MINIMUM 90% RELATIVE COMPACTION.
 4. PIPING SHALL BE PRESSURE TESTED AND DISINFECTED PRIOR TO MAKING FINAL CONNECTIONS.

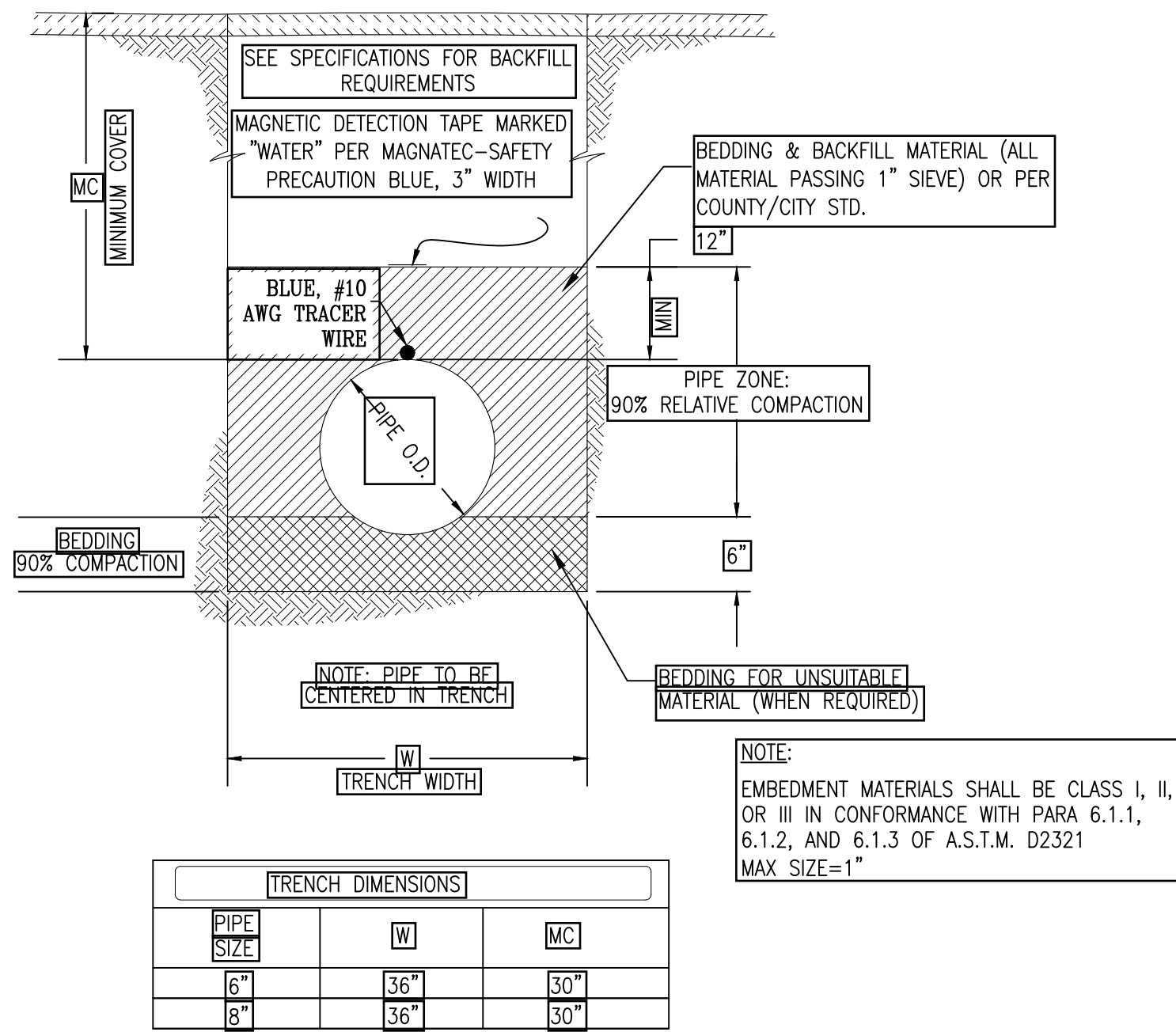


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DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
3701 PEBASUS DRIVE, SUITE 101
PORTERVILLE, CALIFORNIA 93257
PHONE (209) 385-1234
FAX (209) 385-1235

PVC CONVEYANCE PIPING
WATER SUPPLY AND WELL
EQUIPPING PROJECT
FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

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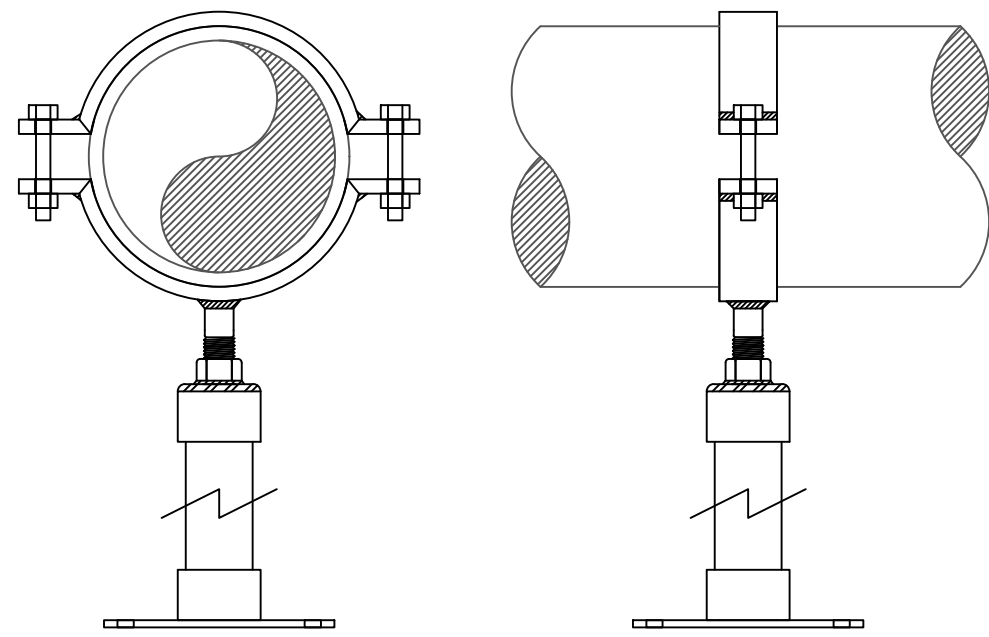
TRENCH DETAIL

FULL CIRCLE CLAMP SUPPORTS ARE TO BE FACTORY FABRICATED UNITS. NO CONTRACTOR FABRICATED SUPPORTS ARE ALLOWED. MATERIAL TO BE A36 STEEL WITH A HOT DIPPED GALVANIZED FINISH. UPPER AND LOWER MATCHING SADDLES ARE EACH TO ENCOMPASS 170° OF PIPE, AND ARE TO BE FORMED TO ACTUAL PIPE DIAMETER. BASE IS TO BE ANCHORED TO CONCRETE, AND INSTALLER IS TO WELD EXTENSION PIPE TO BASE AND COLLAR AFTER INSTALLATION. CONTRACTOR SHALL PROVIDE A 1/2" THICK NEOPRENE LINER BETWEEN THE SUPPORT AND THE FABRICATED STEEL PIPE. SUPPORTS SHALL BE STANDON MODEL C92 OR APPROVED EQUAL.

MATERIAL
 SADDLE STRAP: ASTM A36
 COLLAR/ BASE CUPS: ASTM A53 D.O.M. TUBING
 THREADED STUD: ASTM A36; ROLLED THREAD GRADE ASTM A307
 BASE PLATE: ASTM A36 SHEET STEEL - .25" PLATE
 OPTIONAL MATERIAL: 100% 304 STAINLESS STEEL

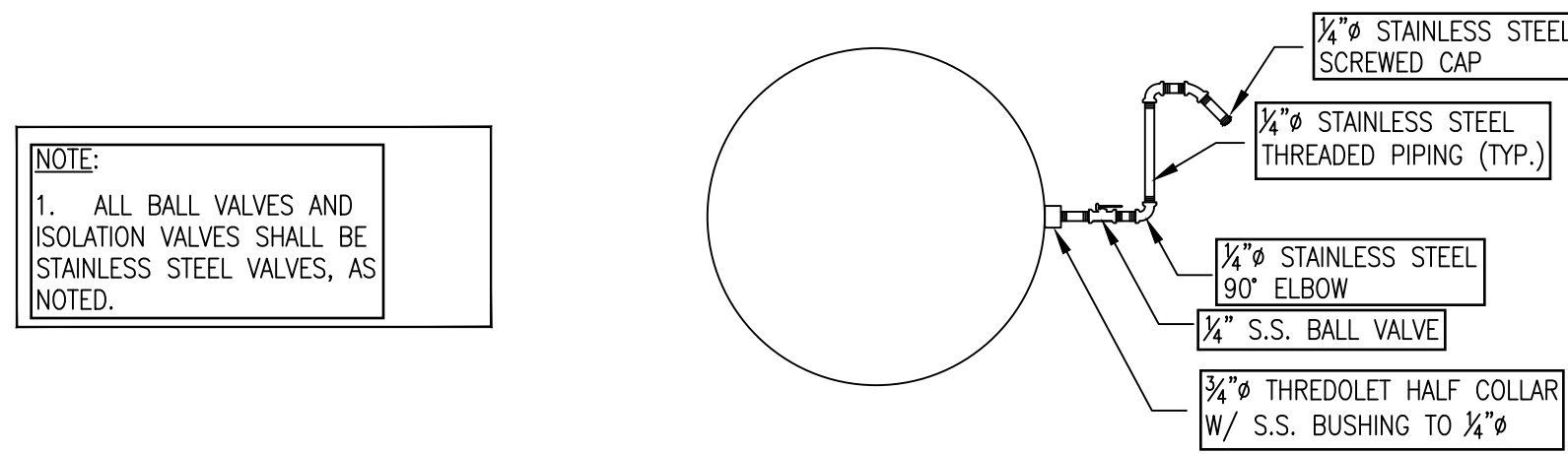
FABRICATION
 ALL WELDS: 100% MIG WELDING, ELECTRODE E70XX
 SADDLES: FORMED TO DUCTILE IRON RADIUS.

FINISH
 ALL PIPE SUPPORTS HAVE A CORROSION RESISTANT, GALVANIZED FINISH.

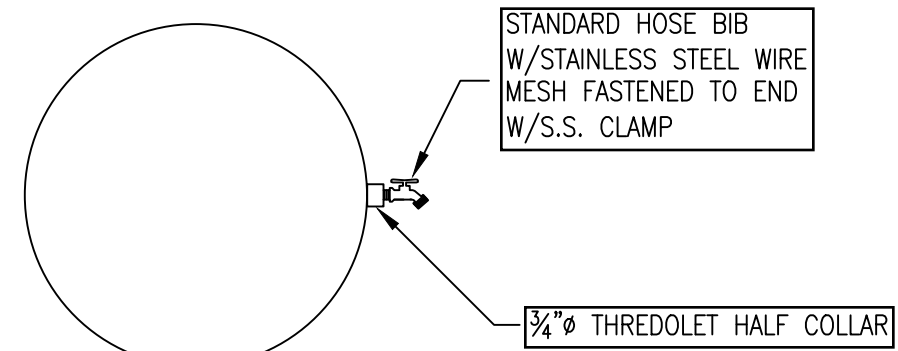


FULL CIRCLE SUPPORT DETAIL					
NOMINAL PIPE SIZE	STRAP SIZE	THREAD STUD	BASE PLATE	EXTENSION PIPE REQ'D.	MINIMUM DISTANCE TO FLOOR
6"	1/2"x2"	1"x6"	8"x8"x1/4"	2" SCH. 40	7"
8"	1/2"x2"	1"x8"	8"x8"x1/4"	2" SCH. 40	8"

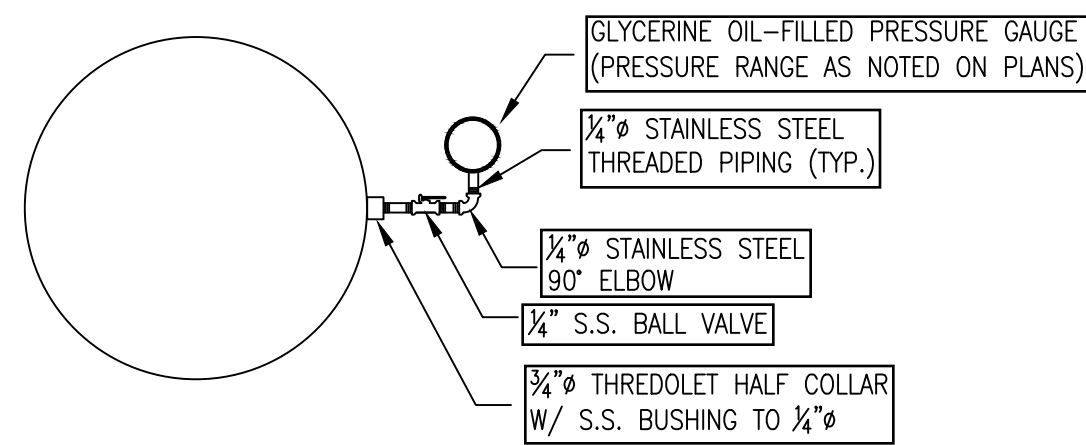
PIPE SUPPORT



SAMPLE PORT DETAIL

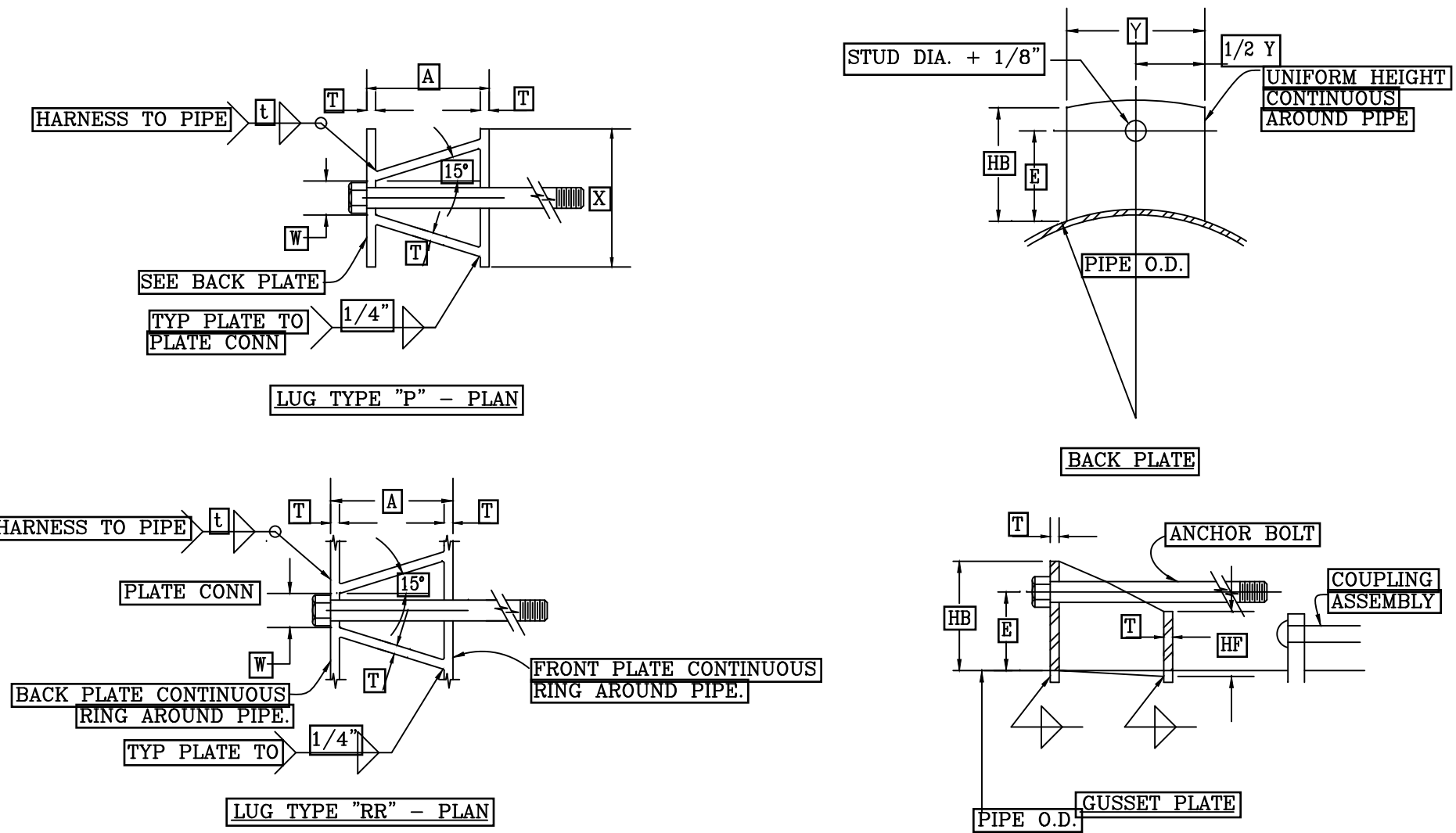


HOSE BIB DETAIL



PRESSURE GAUGE DETAIL

NOTE:
 1. ALL PRESSURE GAUGES SHALL BE INSTALLED WITH A DIAPHRAGM TO PREVENT BACK FLOW OF OIL INTO WATER SYSTEM (TYP.)
 2. ALL PRESSURE GAUGES SHALL BE ASHCROFT PRESSURE GAUGES. GAUGES SHALL BE 2 1/2" FACE (TYP.)

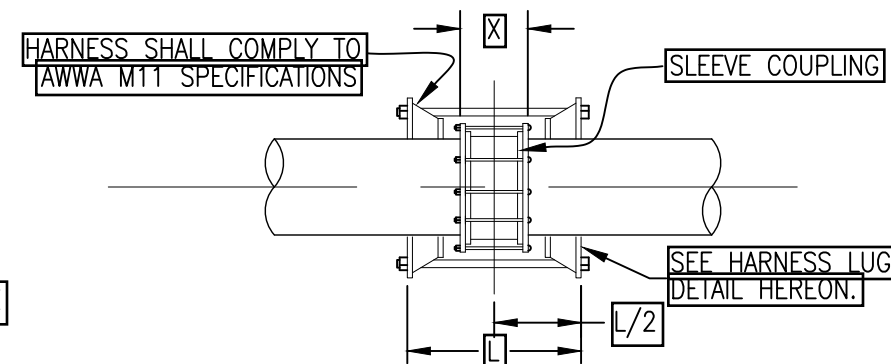


PIPE O.D.	L	LUG TYPE	BOLT DIA.	BOLTS REQ.	T	A	Y	W	X	HB	E	HF	MIN. CYLINDER THICKNESS UNDER THE LUGS (IN.) DESIGN PRESSURE 150 PSI	MIN. LENGTH OF THICKNESS (IN.) SEE NOTE
6.625	250	P	0.625	2	0.375	5.00	5.00	1.375	5.00	3.875	3.000	2.00	0.193	7.00
8.625	250	P	0.625	2	0.375	5.00	5.00	1.375	5.00	3.875	3.000	2.00	0.239	7.00

PIPE O.D.	L	LUG TYPE	BOLT DIA.	BOLTS REQ.	T	A	Y	W	X	HB	E	HF	MIN. CYLINDER THICKNESS UNDER THE LUGS (IN.) DESIGN PRESSURE 250 PSI	MIN. LENGTH OF THICKNESS (IN.) SEE NOTE
6.625	250	P	0.625	2	0.375	5.00	5.00	1.375	5.00	3.875	3.000	2.00	0.282	7.00
8.625	250	P	0.625	2	0.375	5.00	5.00	1.375	5.00	3.875	3.000	2.00	0.354	7.00

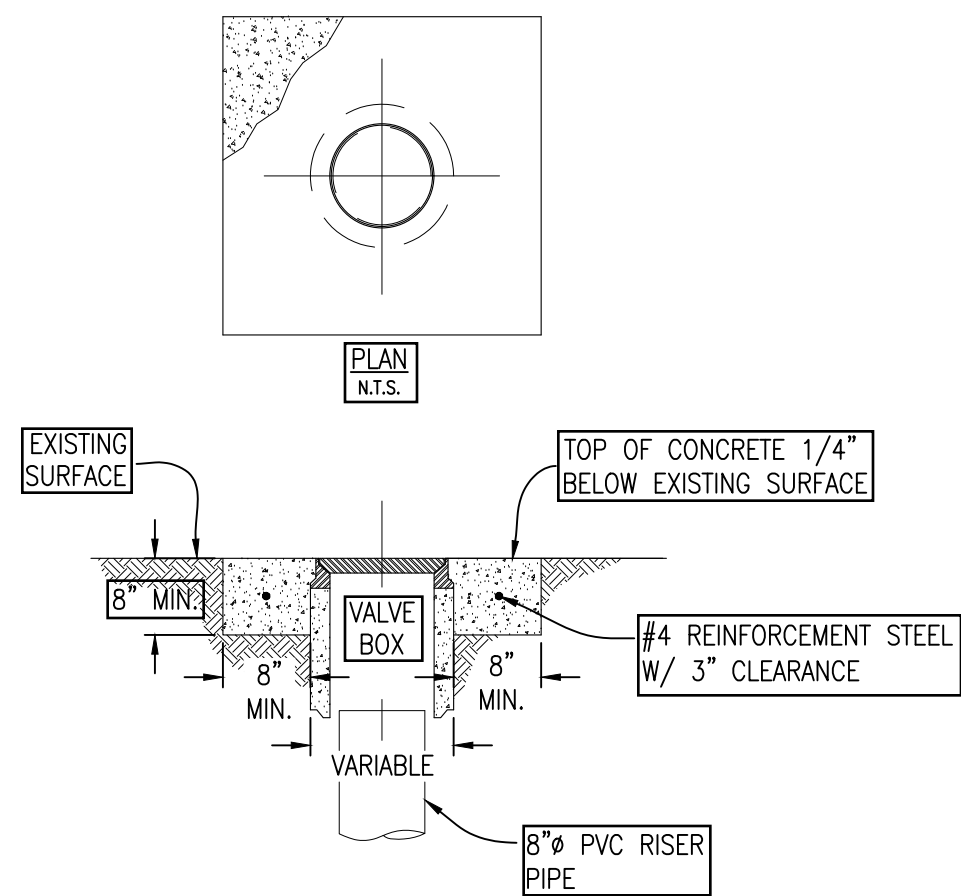
NOTE: ALL DIMENSIONS ARE IN INCHES. THE MINIMUM LENGTH OF THICKNESS IS THE MINIMUM LENGTH OF THE MINIMUM CYLINDER THICKNESS UNDER THE LUGS FOR A 150 PSI DESIGN PRESSURE.

JOINT HARNESS LUG DETAIL



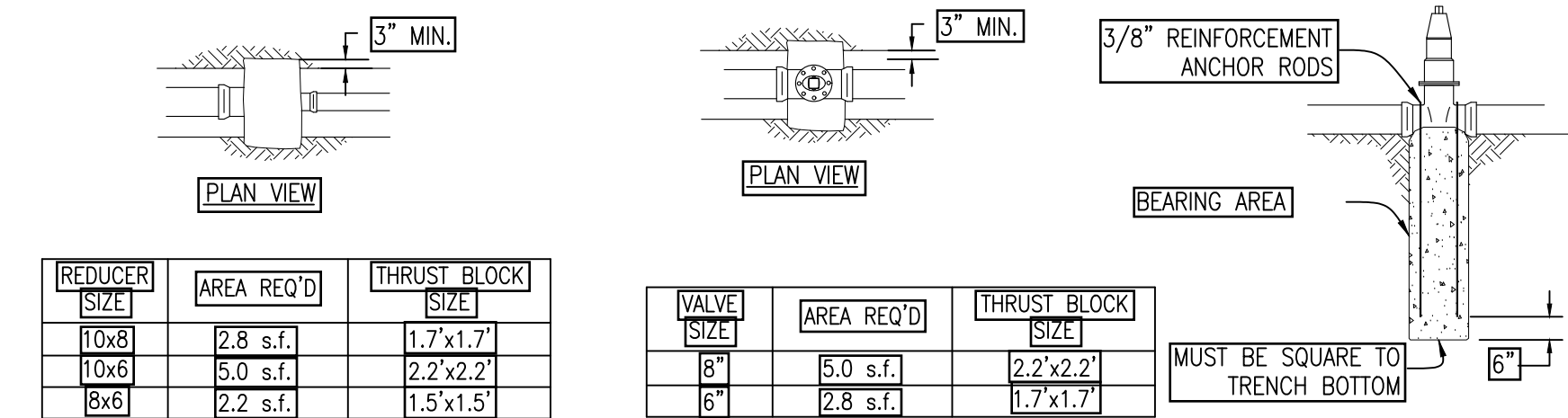
PIPE O.D.	X	L/2	L
6.625"	8.875"	10.3125"	20.625"
8.625"	8.875"	10.3125"	20.625"

DRESSER COUPLING DETAIL



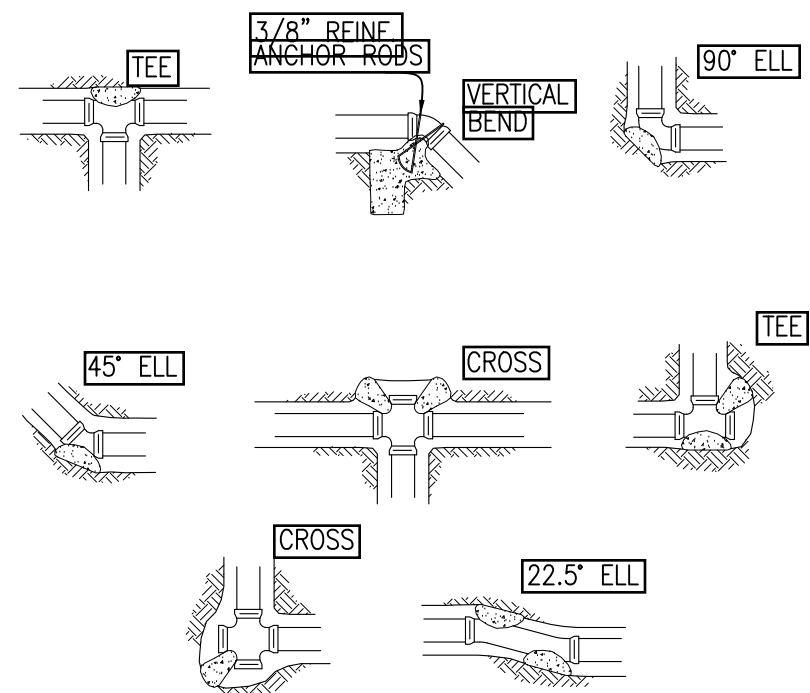
NOTES:
 1. DIMENSIONS TO BE SAME FOR ALL SIZES OR TYPES OF OPENINGS.
 2. CONCRETE TO BE CLASS "A" (SIX SACK).
 3. CONCRETE TO BE BARRICADED FOR THREE DAYS AFTER POURING.
 4. CONCRETE CURE TO BE IN ACCORDANCE WITH SECTION 90-7 "CURING CONCRETE" OF THE CALTRANS STANDARDS SPECIFICATIONS OR PER DISTRICT REQUIREMENTS.

VALVE BOX DETAIL



REDUCER

VALVE ANCHORS



THRUST BLOCK DETAIL

BEARING AREA (SQ. FT.)					
PIPE SIZE	TEE OR PLUG	90° ELL OR HYDRANT	45° ELL	22.5° ELL	
4"	2	3	1	1	
6"	3	4	2	2	
8"	5	7	4	2	

NOTES:
 1. ALL THRUST BLOCKS TO BE POURED AGAINST UNDISTURBED SOIL. CONCRETE SHALL BE PLACED BEHIND BELL OF FITTING.
 2. BEARING AREAS SHOWN IN TABLE ARE BASED UPON ALLOWABLE SOIL PRESSURE OF 1500 psf.
 3. CONCRETE STRENGTH SHALL BE 2000 PSI AT 28 DAYS MINIMUM.
 4. CONCRETE THRUST BLOCKS SHALL NOT BE BACKFILLED UNTIL A MINIMUM 24 HOUR CURE TIME HAS BEEN OBTAINED.

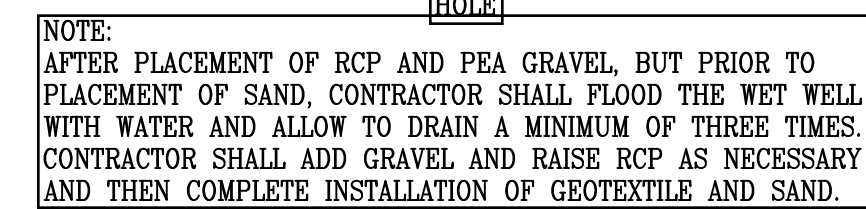
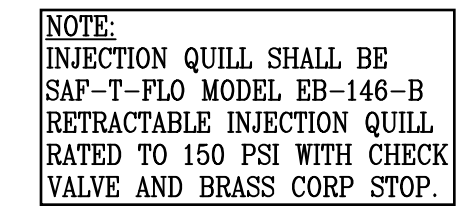
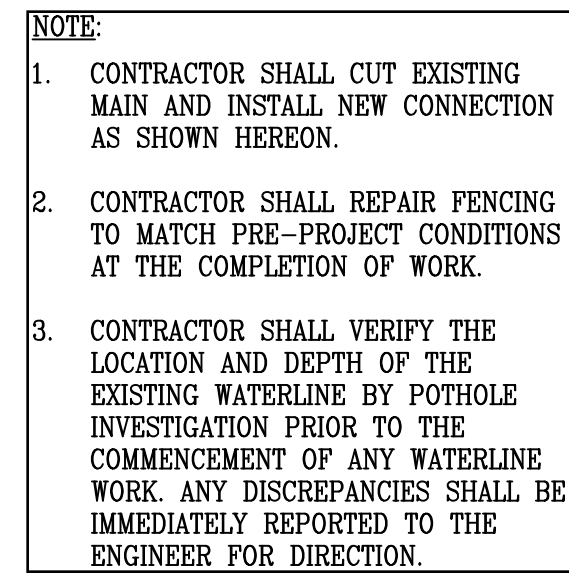
REQUIRES CALCULATION

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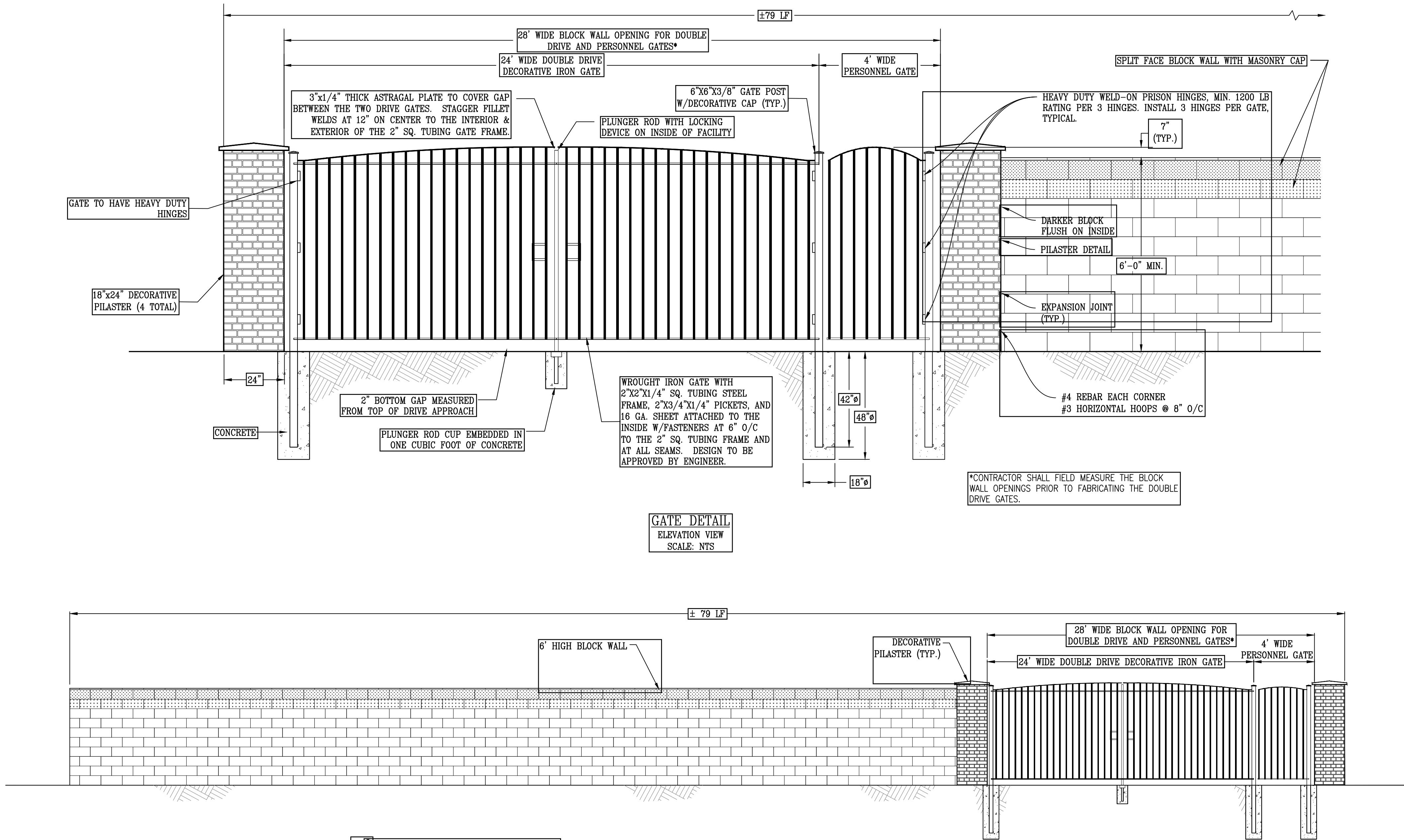
DEE JASPAR & ASSOCIATES, INC.
 CIVIL ENGINEERS
 3701 PEGASUS DRIVE, SUITE 101
 BAKERSFIELD, CALIFORNIA 93309
 PHONE (805) 338-1111
 FAX (805) 338-1112

MISCELLANEOUS DETAILS
 WATER SUPPLY AND WELL
 EQUIPPING PROJECT
 FRAZIER PARK PUBLIC UTILITY DISTRICT
 KERN COUNTY, CALIFORNIA

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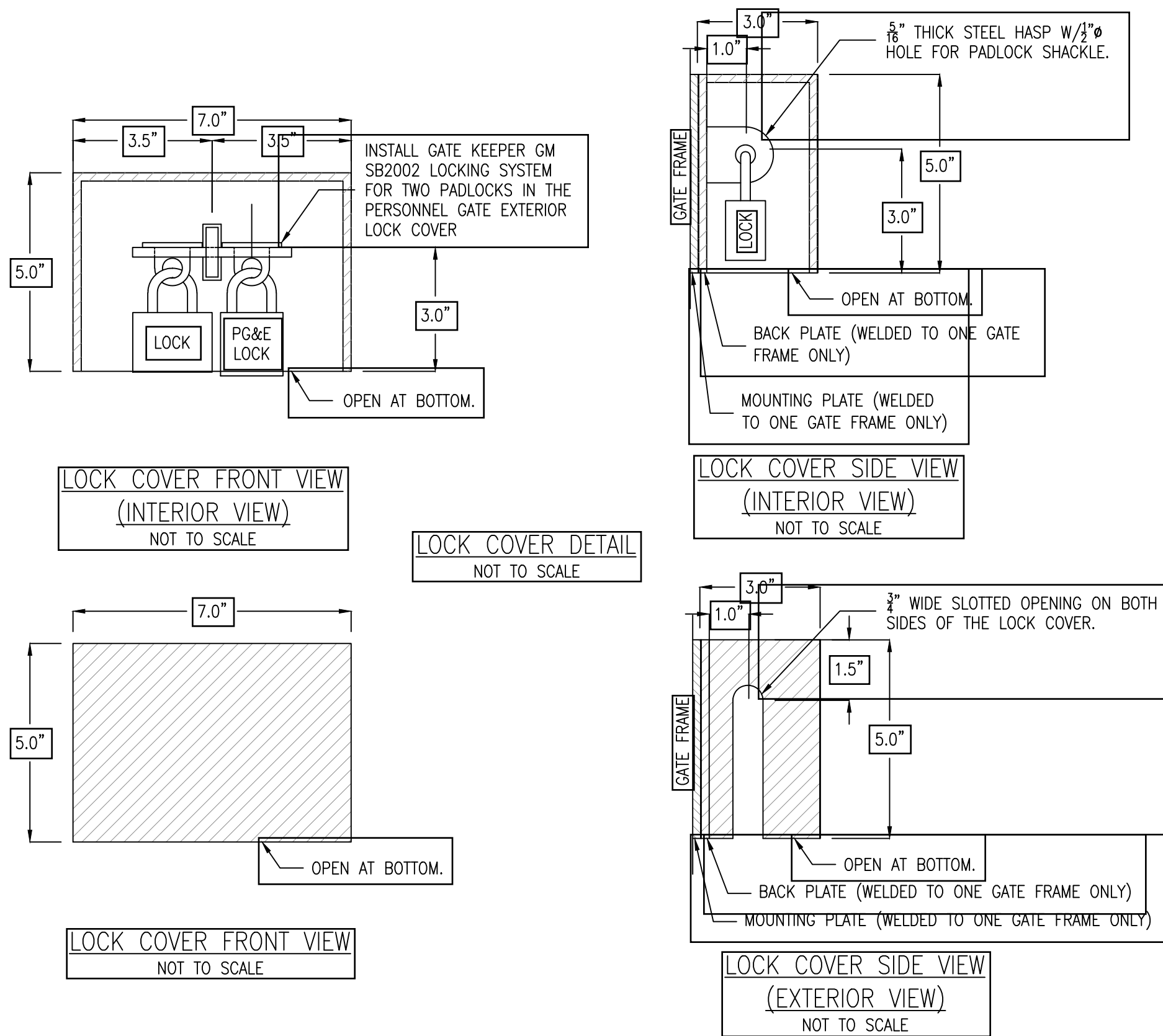


GATE DETAIL
ELEVATION VIEW
SCALE: NTS

*CONTRACTOR SHALL FIELD MEASURE THE BLOCK WALL OPENINGS PRIOR TO FABRICATING THE DOUBLE DRIVE GATES.

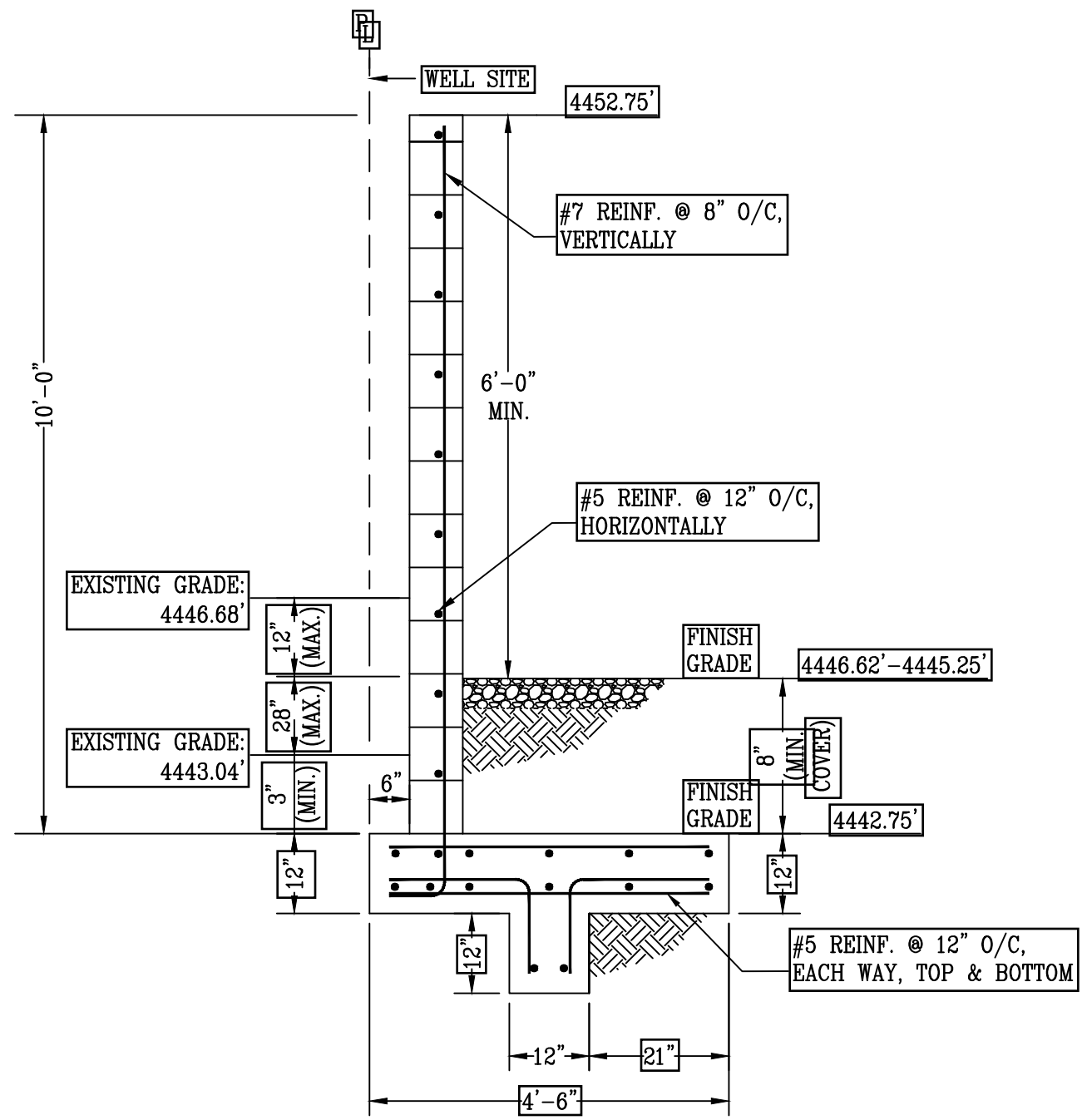
- MASONRY WALL NOTES:**
- BLOCK WALL PER COUNTY OF KERN STANDARDS AND AS SHOWN HEREON. THE MORE STRINGENT STANDARD SHALL APPLY.
 - SPECIAL INSPECTION IS NOT REQUIRED
 $f_m' = 1350 \text{ PSI}$, $F_s = 20,000 \text{ PSI}$
 - MASONRY WALL SHALL BE OF TAN COLOR WITH TAN GROUT.
 - CONCRETE FOR FOOTING SHALL BE 3,000 PSI AND REINFORCING STEEL SHALL BE 60 KSI MINIMUM YIELD STRENGTH. ALL CONCRETE AND STEEL WORK SHALL BE IN ACCORDANCE WITH ACI STANDARDS. GROUT ALL CELLS TO TOP OF WALL.
 - MASONRY CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATING THE FOOTING AREA.
 - UPON COMPLETION OF EXCAVATION THE EXPOSED SURFACE SHALL BE SCARIFIED 6", MOISTURE CONDITIONED, AND RECOMPACTED IN PLACE. MINIMUM COMPACTION SHALL BE 95% RELATIVE COMPACTION TO A DEPTH OF ONE FOOT BELOW THE BOTTOM OF THE FOOTING.
 - TOP OF WALL GRADIENT SHALL MATCH THE SLOPE OF THE SITE GRADING PER THE APPROVED GRADING PLAN.
 - MASONRY CONTRACTOR SHALL RESTORE FINISH GRADING THAT IS DISTURBED BY INSTALLATION OF THE MASONRY WALL.
 - MASONRY CONTRACTOR SHALL BE RESPONSIBLE FOR HIS CLEAN-UP AND RESTORATION OF BLOCK WALL AREA TO ORIGINAL CONDITION.

- GATE NOTES:**
- GATE POSTS FOR DRIVE GATES SHALL BE 6" SQUARE TUBING X 8" WALL THICKNESS, ASTM A500, GRADE B STEEL, PAINTED TO MATCH GATE. CONTRACTOR SHALL CHIP AWAY CONCRETE FROM EXISTING BLOCK WALL FOOTING AS NEEDED FOR INSTALLATION OF THE GATE POSTS.
 - GATE SHALL BE PAINTED, COLOR TO BE APPROVED BY OWNER. THE GATE SHALL BE SHOP PRIMERED WITH A TNEC HI-BUILD EPOXOLINE II SERIES N69 (OR APPROVED EQUAL) TO SIX (6) MILS TOTAL DRY FILM THICKNESS (DFT) FOLLOWING FABRICATION AND PRIOR TO SHIPMENT FOR INSTALLATION AT THE PROJECT SITE. THE GATE SHALL THEN BE PREPARED AND PAINTED ON SITE USING A TNEC ENDURA-SHIELD SERIES 1075 (OR APPROVED EQUAL) TO FOUR (4) MILS DFT.
 - MAXIMUM 1/2" GAP BETWEEN DOUBLE DRIVE GATES.



SITE FRONTAGE
ELEVATION VIEW
SCALE: NTS

- NOTES:**
- LOCK COVER TO BE INSTALLED ON INTERIOR OF THE DOUBLE DRIVE GATES AND THE EXTERIOR OF THE 4' WIDE PERSONNEL GATE.
 - LOCK COVER AND HASP TO BE CONSTRUCTED OF 3/8" STEEL.
 - LOCK COVER SHALL BE CONNECTED TO ONE GATE FRAME AND THE LOCK PLACE MOUNTING PANEL TO THE OTHER. GATE AND LOCK COVER INSTALLATION SHALL ALLOW GATE WITH LOCK COVER TO CLOSE UNOBSTRUCTED, SUBMIT GATE CLOSURE DETAIL FOR REVIEW AND APPROVAL.

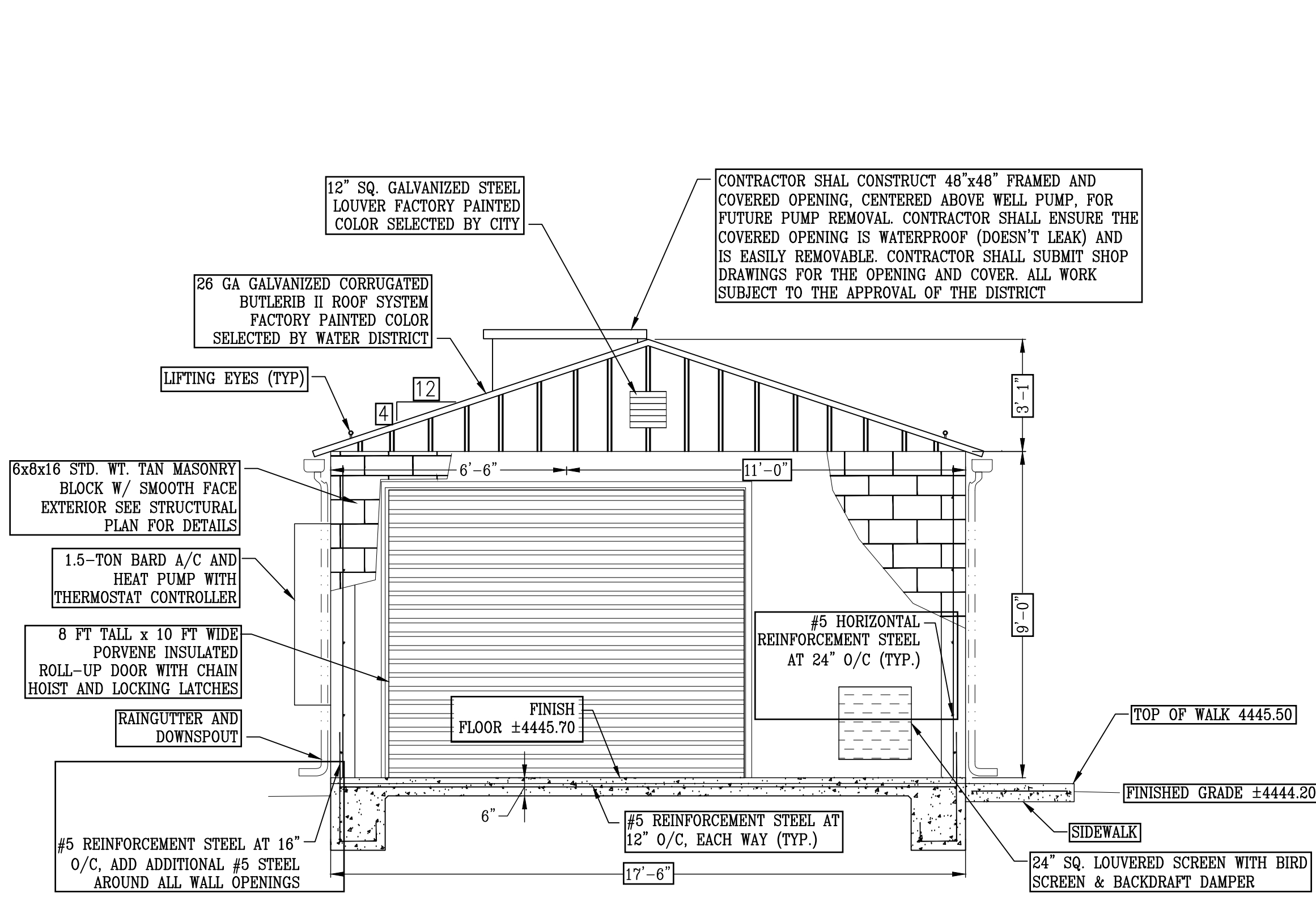


MASONRY BLOCK WALL
SECTION VIEW
SCALE: 1"=2'

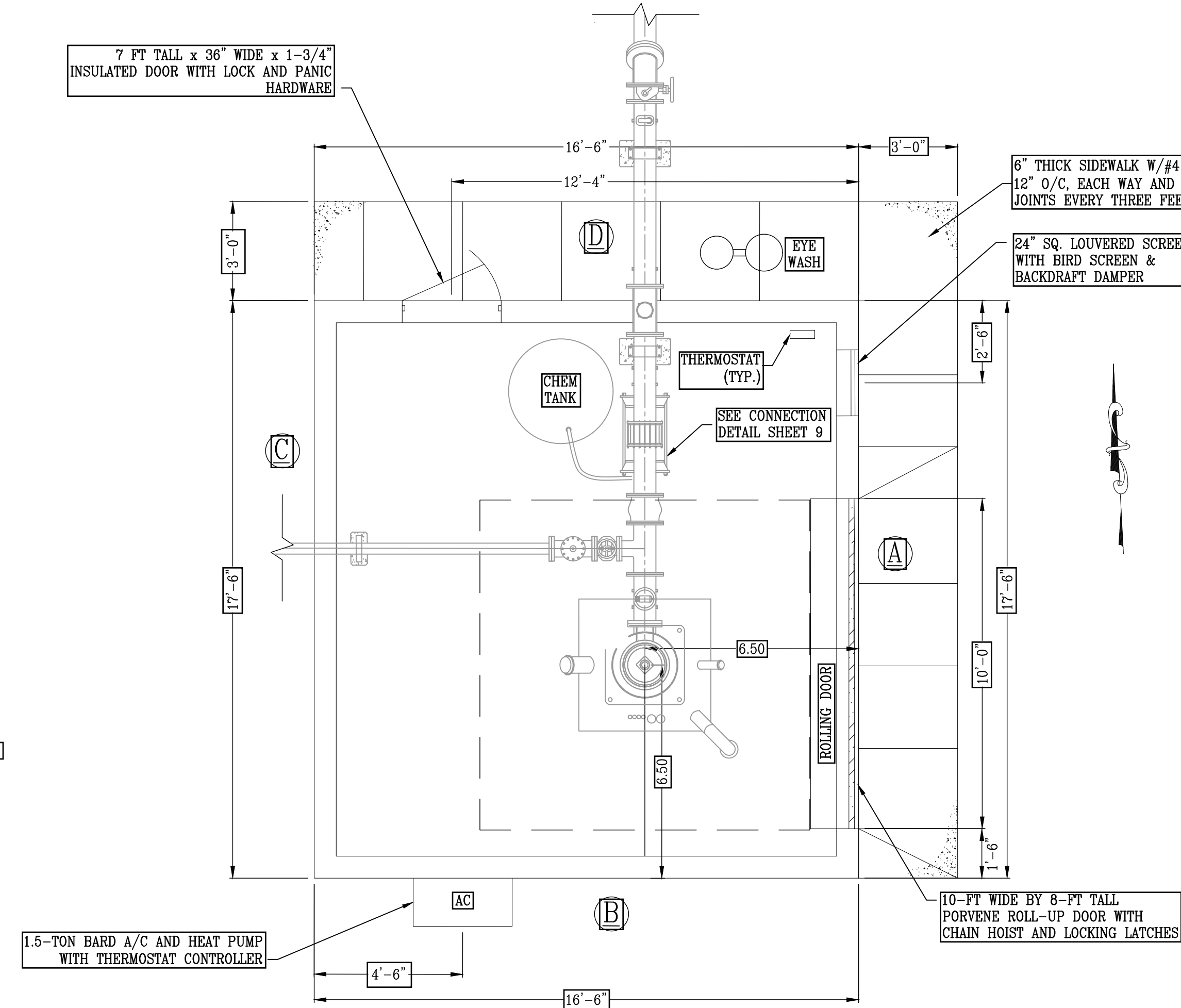
BLOCK WALL DETAILS
WATER SUPPLY AND WELL
EQUIPPING PROJECT
FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

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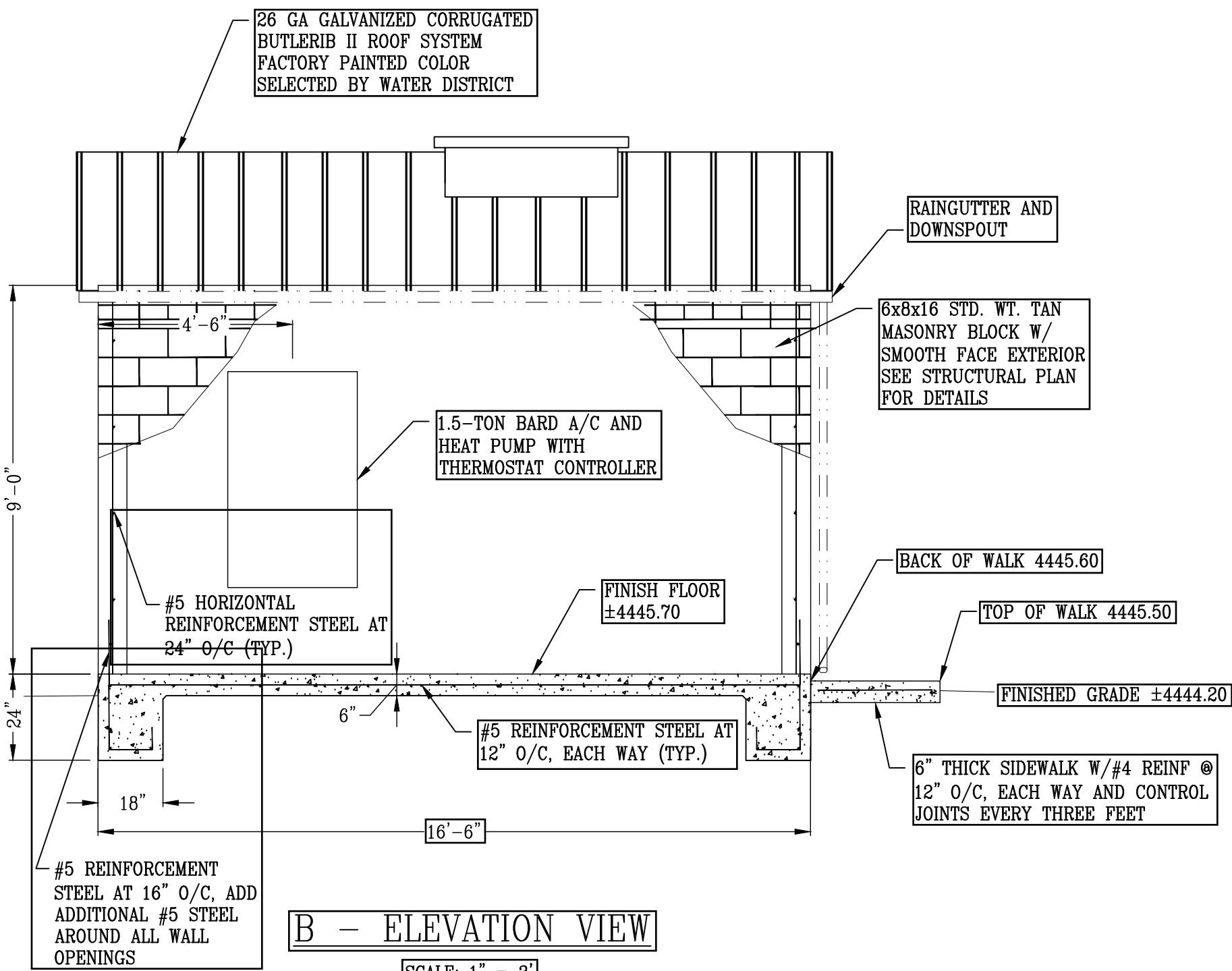
DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
1000 N. MAIN STREET, 4B
PO BOX 33008
BAKERSFIELD, CALIFORNIA 93308
PHONE (805) 338-7270
FAX (805) 338-7270
PAGER (805) 338-7270



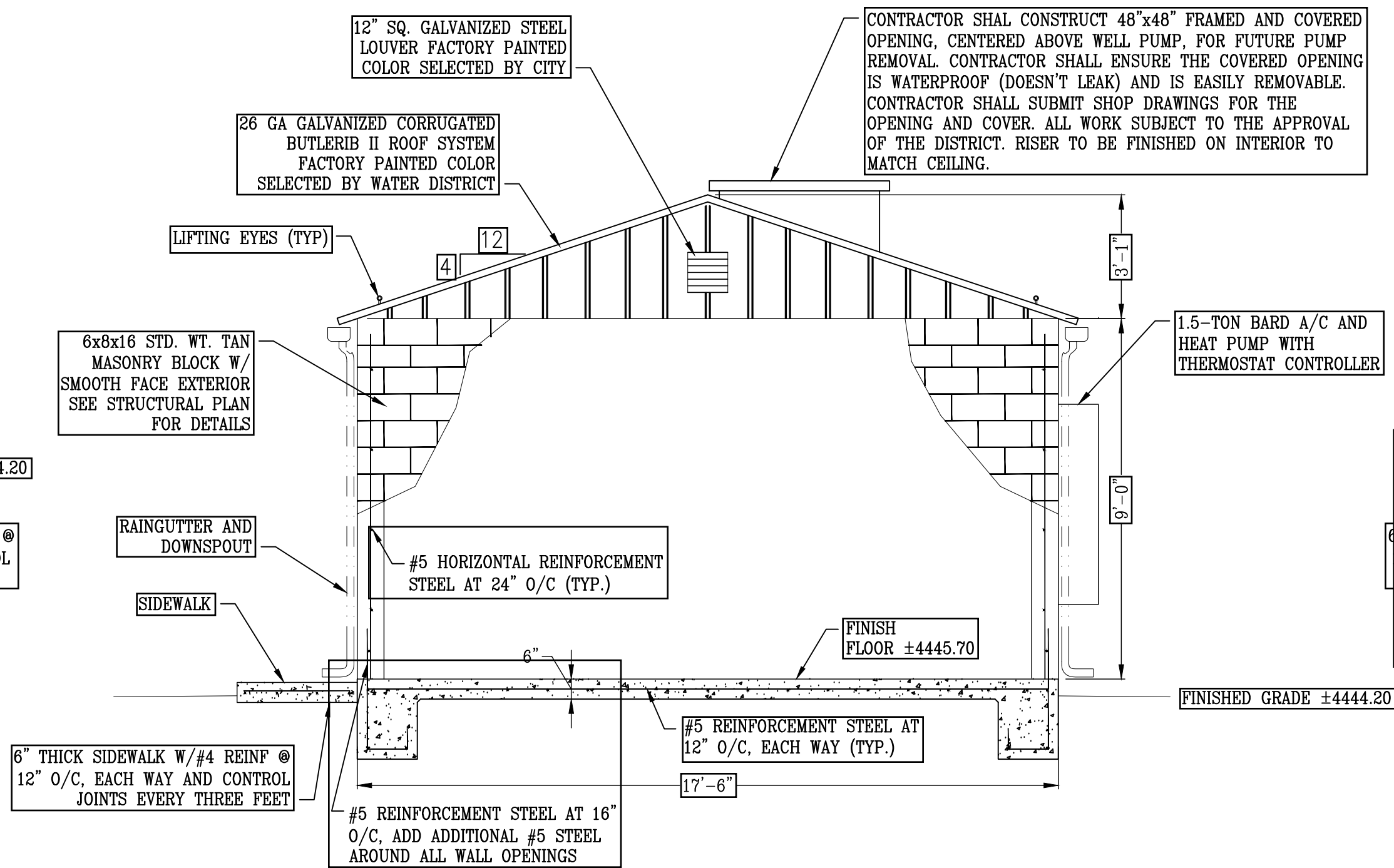
A - ELEVATION VIEW
SCALE: 1" = 3'



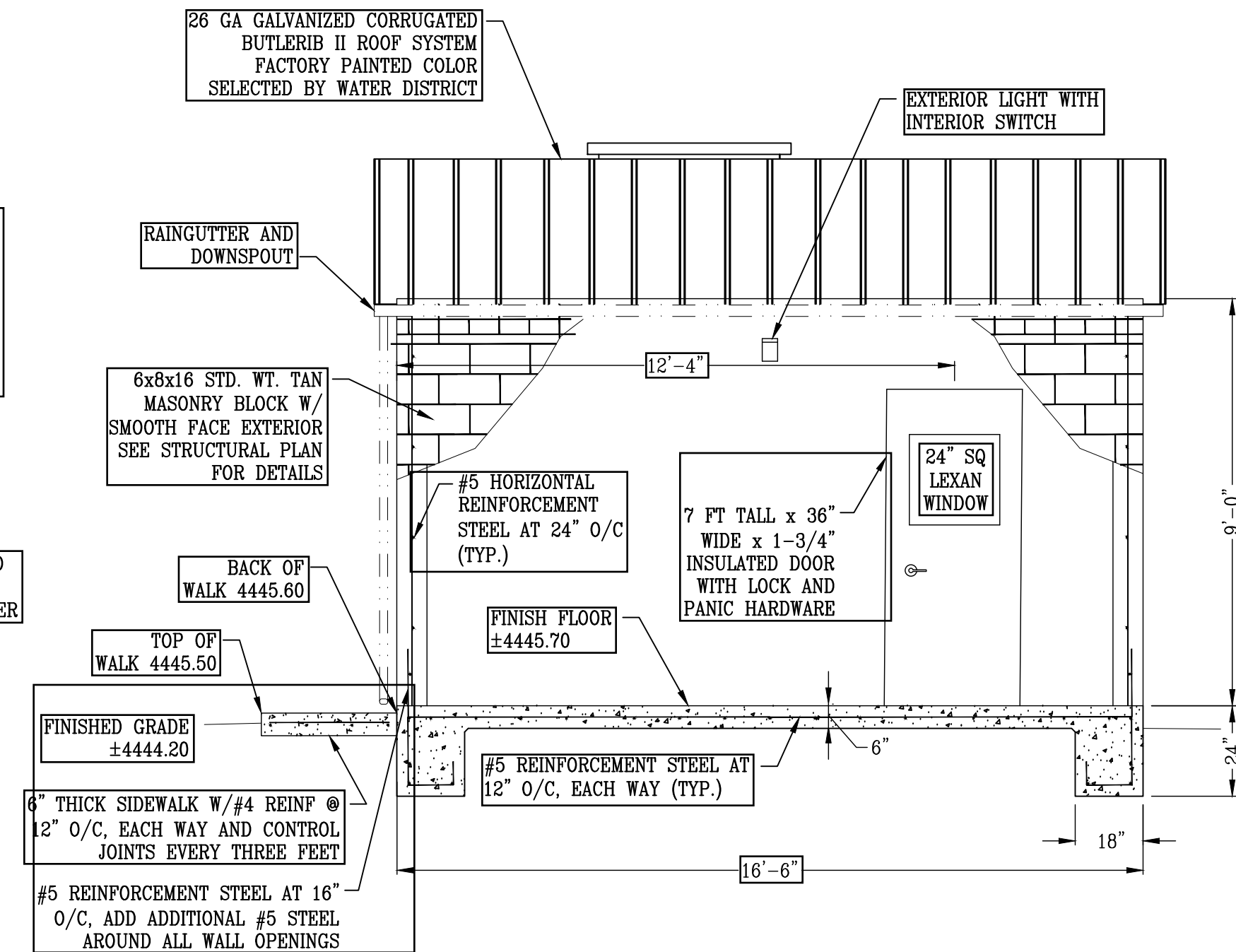
PLAN VIEW
SCALE: 1" = 3'



B - ELEVATION VIEW
SCALE: 1" = 3'



C - ELEVATION VIEW
SCALE: 1" = 3'



D - ELEVATION VIEW
SCALE: 1" = 3'

NOTES:

1. CONTRACTOR SHALL OVER-EXCAVATE A MINIMUM OF 18" BENEATH THE BUILDING FOUNDATION TO A MINIMUM OF 3-FT BEYOND THE LIMITS OF THE STRUCTURE AND RE-COMPACT TO 90% RELATIVE COMPACTION PER ASTM D1557.
2. ALL CONCRETE SHALL BE 3,000 PSI MINIMUM COMPRESSIVE STRENGTH. ALL STEEL REINFORCEMENT SHALL BE DEFORMED ACCORDING TO ACI 318 AND SHALL BE 60 KSI MINIMUM YIELD STRENGTH.
3. ALL WALLS SHALL BE INSULATED WITH R19 INSULATION. BUILDING ELECTRICAL CONDUITS SHALL BE STUBBED UP THROUGH THE SLAB AND INSTALLED INSIDE THE WALLS.
4. ALL INTERIOR WALLS AND CEILING SHALL BE DRYWALLED, TAPED, SANDED, AND PAINTED WHITE.
5. CONTRACTOR TO INSTALL ELECTRICAL OUTLET ON EACH INTERIOR WALL, AN INTERIOR LIGHT WITH LIGHT SWITCH, A/C THERMOSTAT, AND AN EXTERIOR LIGHT WITH LIGHT SWITCH.
6. EXTERIOR WALL COLORS SHALL BE FPPUD APPROVED COLORS. BUILDING SHALL BE A 2-TONE PAINT FINISH WITH DOOR PAINTED TO MATCH THE BUILDING TRIM.
7. ROOF SHINGLE COLOR SHALL BE FPPUD APPROVED COLOR.
8. ALL DOORS SHALL BE INSTALLED WITH WEATHER STRIPPING TO MAKE THEM AIR AND DUST TIGHT.
9. ALL EXTERIOR NAILS SHALL BE GALVANIZED.
10. BUILDING SHALL BE ANCHORED TO THE CONCRETE FOUNDATION PER BUILDING MANUFACTURER REQUIREMENTS. BUILDING AND HOLD DOWN ANCHORAGE TO BE DESIGNED IN ACCORDANCE WITH APPLICABLE CALIFORNIA SEISMIC REQUIREMENTS AND INCLUDING A 120 MPH WIND LOAD AND SNOW LOAD.
11. BUILDING SHALL INCLUDE AN INSULATED STEEL SECURITY DOOR WITH LOCK AND DEAD BOLT, AND BE A COLOR APPROVED BY FPPUD. DOOR SHALL INCLUDE WEATHER STRIPPING, PANIC HARDWARE, DOOR CLOSER WITH HOLD-OPEN DEVICE, AND SILL.
12. BUILDING SHALL BE EQUIPPED WITH A 1.5-TON WALL MOUNTED AIR CONDITIONING UNIT. THE CONTRACTOR SHALL FURNISH AND INSTALL A SELF-CONTAINED, VERTICAL, EXTERIOR WALL MOUNT, THROUGH-THE-WALL A/C UNIT AND HEAT PUMP MANUFACTURED BY BARD MANUFACTURING COMPANY, INC. THE UNIT SHALL BE APPROVED AND LISTED BY INTERTEK ETL. UNIT SHALL BE FACTORY ASSEMBLED, PRE-CHARGED, PRE-WIRED, TESTED AND READY TO OPERATE. UNIT PERFORMANCE SHALL BE CERTIFIED IN ACCORDANCE WITH THE AIR CONDITIONING HEATING AND REFRIGERATION INSTITUTE (AHRI) STANDARD 390-2003 FOR SINGLE PACKAGE VERTICAL UNITS. UNIT EFFICIENCY SHALL BE SPECIFIED BY EER AND COP. THE UNIT SHALL BE COVERED BY A 5-YR PARTS WARRANTY. THE HEAT PUMP SHALL HAVE A FACTORY INSTALLED BACK-UP ELECTRIC RESISTANCE HEATER AVAILABLE THAT IS DESIGNED SPECIFICALLY FOR APPLICATION IN THE WH SERIES HEAT PUMP. HEATER SHALL INCLUDE AUTOMATIC LIMIT SAFETY CONTROLS.
13. BUILDING ROOF SHALL BE REMOVABLE TO ACCOMMODATE REMOVAL AND INSTALLATION OF THE DEEP WELL PUMP AND MOTOR.

BUILDING PLAN AND ELEVATION VIEW

WATER SUPPLY AND WELL
EQUIPPING PROJECT

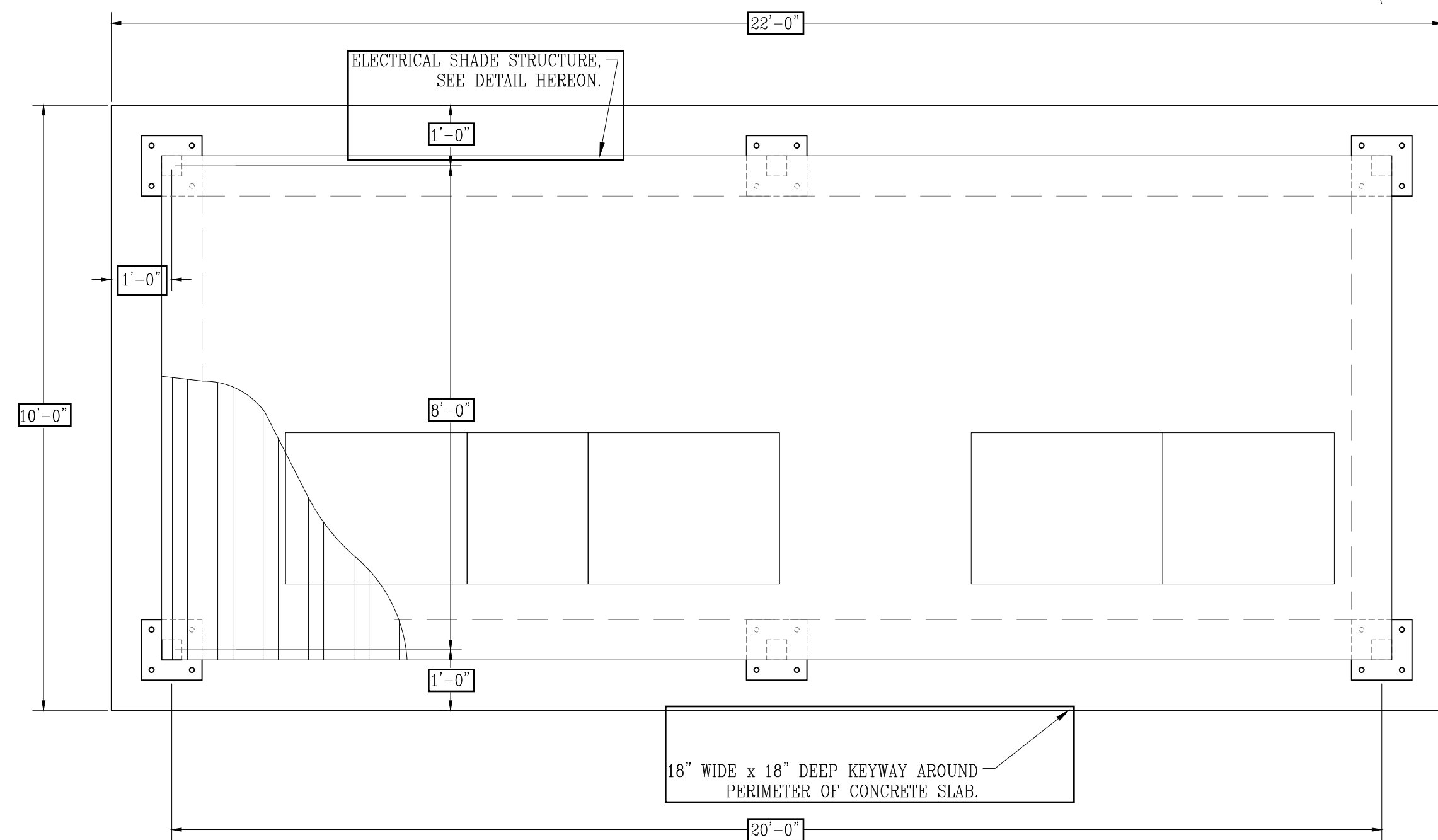
FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

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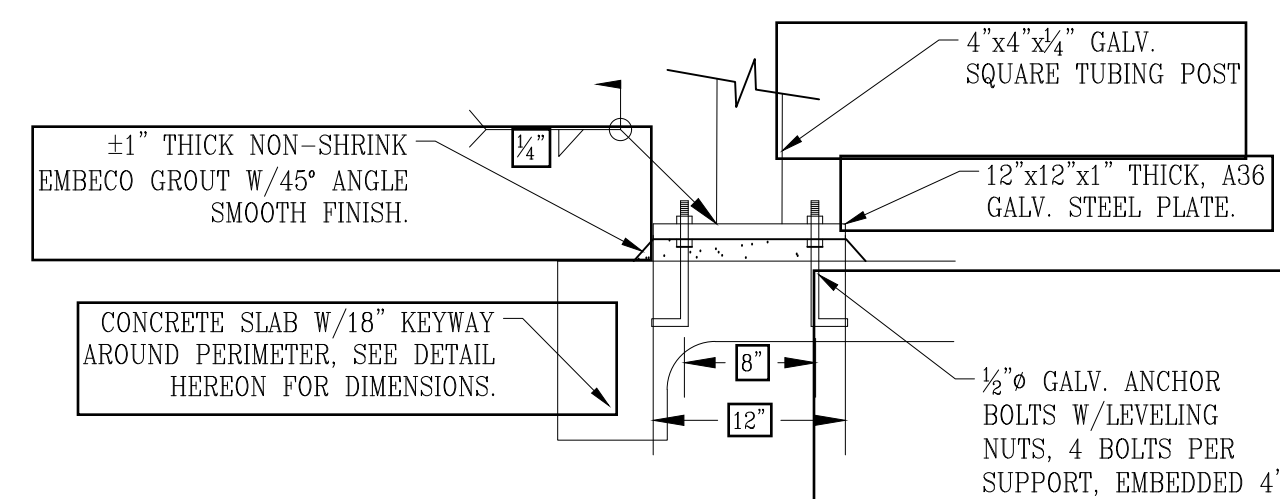
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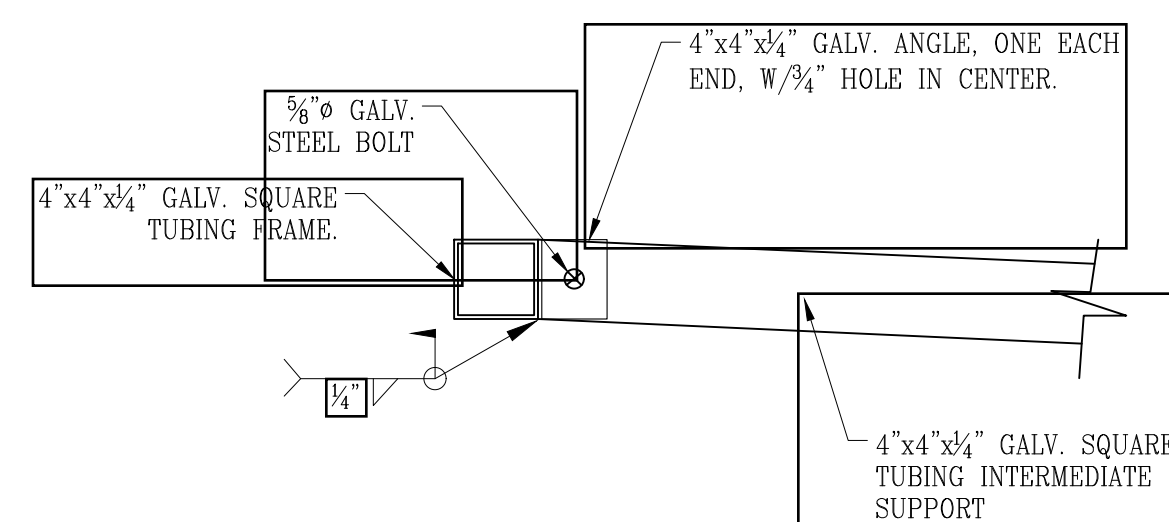
DEE JASPAR & ASSOCIATES, INC.
2700 LINCOLN ROAD, SUITE 100
BAKERSFIELD, CALIFORNIA 93308
PHONE (805) 338-1000
FAX (805) 338-1001
PORTERVILLE, CALIFORNIA 93257
PHONE (559) 733-3273
FAX (559) 733-3274



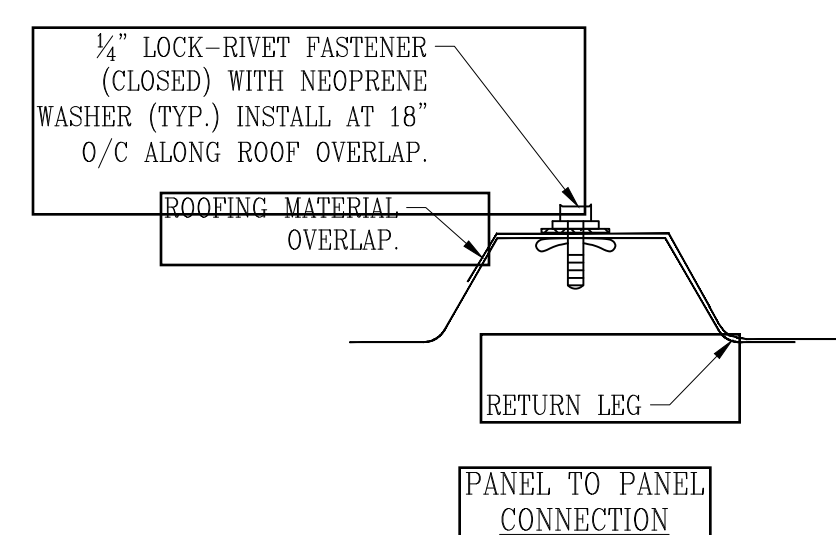
ELECTRICAL SYSTEM CONCRETE SLAB
NOT TO SCALE



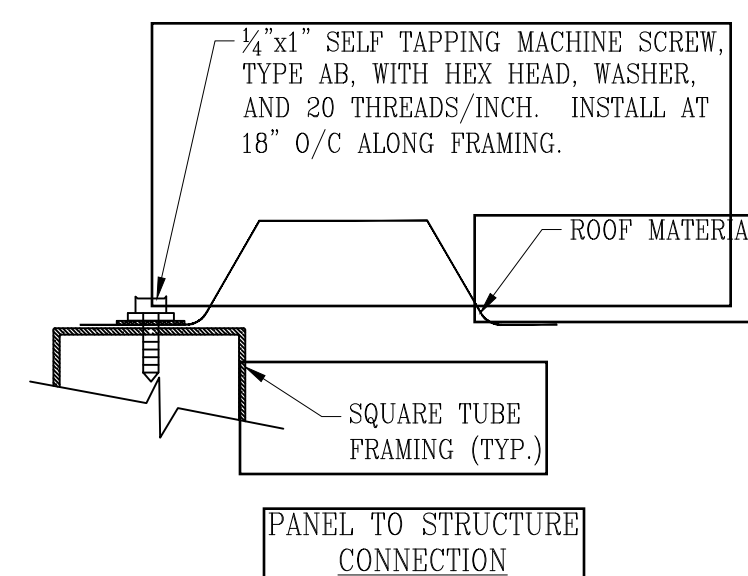
SUPPORT CONNECTION DETAIL
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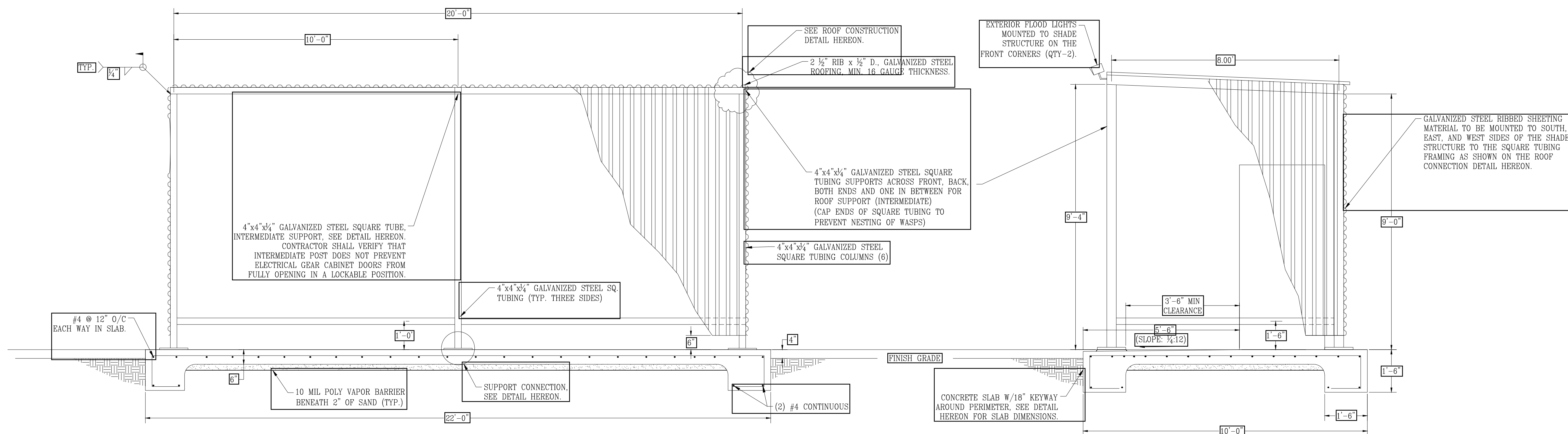
INTERMEDIATE SUPPORT DETAIL
NOT TO SCALE



ROOF CONNECTION DETAIL
NOT TO SCALE



PANEL TO STRUCTURE CONNECTION



ELECTRICAL SWITCHGEAR SHADE STRUCTURE
NOT TO SCALE

- NOTE:
- CONTRACTOR SHALL VERIFY ELECTRICAL GEAR HEIGHT AND DIMENSIONS PRIOR TO BIDDING AND MAKE PROVISIONS IN HIS BID IF THE CONCRETE FOUNDATION AND SHADE STRUCTURE MUST BE LARGER THAN SHOWN HEREON. DIMENSIONS SHOWN HEREON ARE MINIMUM REQUIREMENTS.
 - ROOFING AND SIDING MATERIAL SHALL MATCH THE WELL ENCLOSURE BUILDING MATERIALS AND COLORS.

ELECTRICAL SHADE STRUCTURE

WATER SUPPLY AND WELL
EQUIPPING PROJECT

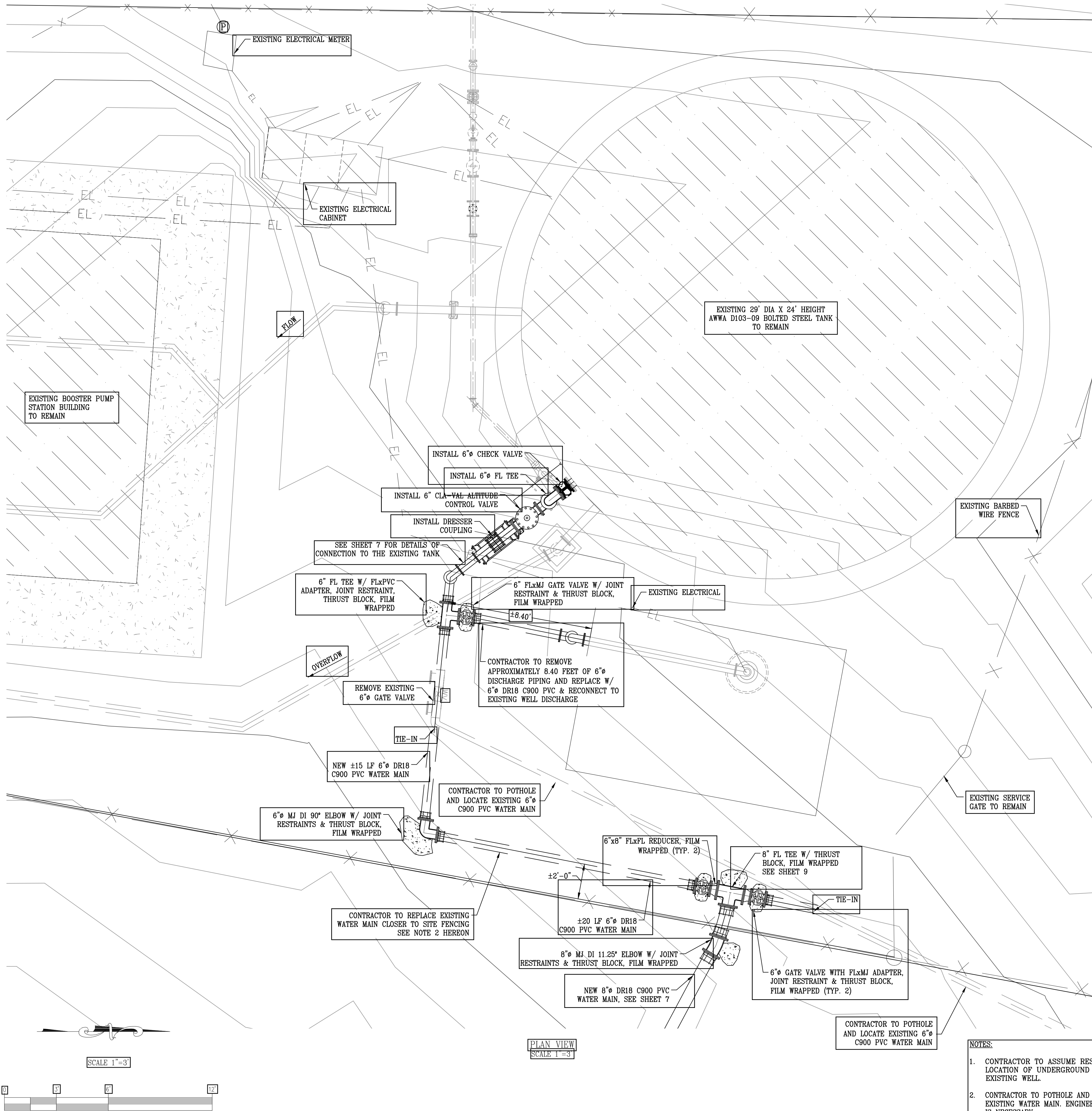
FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
8720 LINDEN ROAD, BLDG. A
SUITE 100
PORTERVILLE, CALIFORNIA 93257
PHONE (559) 735-3333
FAX (559) 735-3333

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SCALE
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JOB NO.

SHEET
12

OF 13 SHEETS



LEGEND:	
OH	EXISTING OVERHEAD POWER LINES
UTIL	EXISTING UTILITY LINES
X	EXISTING FENCE LINE
=====	EXISTING WATER LINE
EL	EXISTING UNDERGROUND ELECTRICAL
□	EXISTING SIGN
⊗	EXISTING WATER VALVE
⊕	EXISTING WATER METER

WELL ABANDONMENT PROCEDURE

ALL REMOVAL WORK SHALL BE APPROVED BY THE ENGINEER PRIOR TO REMOVAL. THE EXISTING WELL ENCLOSURE BUILDING SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. THE EXISTING PUMP AND MOTOR SHALL BE REMOVED FROM THE WELL HOLE AND DISPOSED OF BY THE CONTRACTOR. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, REMOVAL OF WIRING AND CONDUITS, THE VERTICAL HOLLOWSHAFT MOTOR, THE OILER, THE PUMP DISCHARGE HEAD, THE PUMP COLUMN, TUBE, AND SHAFT, THE PUMP BOWL ASSEMBLY, SUCTION PIPE AND STRAINER.

THE CONTRACTOR SHALL DEMOLISH AND REMOVE THE EXISTING CONCRETE WELL FOUNDATION AND WELL ENCLOSURE FOUNDATION. HE SHALL EXCAVATE THE EXISTING WELL TO 6- FEET BELOW GROUND SURFACE, AND CUT AND REMOVE THE EXISTING CONDUCTOR PIPE, CASING PIPE, GRAVEL FEED TUBE, SOUNDING TUBE, AND CASING VENT. THESE SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR. ALL TUBES 4-INCHES IN DIAMETER AND SMALLER SHALL BE CAPPED WITH A WELDED STEEL PLATE.

THE CONTRACTOR SHALL MEASURE THE DEPTH OF THE HOLE PRIOR TO ABANDONMENT. THE WELL HOLE SHALL BE PROPERLY ABANDONED IN ACCORDANCE WITH APPLICABLE PROVISIONS OF BULLETIN NO. 74 OF THE STATE OF CALIFORNIA, DEPARTMENT OF WATER RESOURCES, TITLED "WATER WELL STANDARDS, STATE OF CALIFORNIA", DATED DECEMBER 1981, AND BULLETIN NO. 74-90 DATED JANUARY 1990, AND THE KERN COUNTY WATER WELL DESTRUCTION PROCEDURES. FOR STANDARDS WHICH ARE PERIODICALLY UPDATED, THE MOST CURRENT VERSION OF SAID STANDARD SHALL APPLY. THE WELL HOLE SHALL BE FILLED WITH A 10.5- SACK CEMENT SLURRY THROUGH A TREMIE PIPE FROM THE BOTTOM OF THE WELL HOLE UP TO WITHIN 6- FEET OF THE GROUND SURFACE AND A MUSHROOM CAP PROVIDED. CEMENT PLACEMENT SHALL BE PERFORMED IN ONE CONTINUOUS OPERATION FROM THE BOTTOM OF THE WELL TO THE TOP. THE TOP 6- FEET SHALL THEN BE BACKFILLED AND COMPACTED TO GROUND SURFACE TO 90% RELATIVE COMPACTION.

AFTER ALL WELL ABANDONMENT WORK HAS BEEN COMPLETED, THE CONTRACTOR SHALL CLEAN UP THE WORK AREA IN A MANNER ACCEPTABLE TO THE DISTRICT, DEMOBILIZE FROM THE WELL SITE, AND FURNISH THE APPROPRIATE PAPERWORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASSOCIATED PERMITS.

THE DISPOSAL OF ALL EQUIPMENT SHALL BE DONE IN A LEGAL MANNER BY THE CONTRACTOR. HOWEVER PRIOR TO REMOVING ANY EQUIPMENT FROM THE SITE, THE CONTRACTOR SHALL FIRST VERIFY WITH THE DISTRICT AND THE ENGINEER THAT THEY DO NOT WISH TO KEEP IT. IF THE DISTRICT ELECTS TO KEEP ANY OF THE EQUIPMENT, THE CONTRACTOR SHALL DELIVER IT TO THE DISTRICT SHOP BUILDING.

THE WELL ABANDONMENT WORK SHALL BE PERFORMED AND COMPLETED PRIOR TO DRILLING THE NEW WELL.

- NOTES:**
- CONTRACTOR TO ASSUME RESPONSIBILITY FOR VERIFYING LOCATION OF UNDERGROUND UTILITIES NEAR AND AROUND EXISTING WELL.
 - CONTRACTOR TO POTHOLE AND DETERMINE LOCATION OF EXISTING WATER MAIN. ENGINEER TO DETERMINE IF RE-ROUTE IS NECESSARY.

REV

DESCRIPTION

DATE

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DEE JASPAR & ASSOCIATES, INC.

CIVIL ENGINEERS

808 N MAIN STREET, 4B

PORTERVILLE, CALIFORNIA 93257

PHONE (559) 735-7272

FAX (559) 735-7273

WELL MODIFICATION

WATER SUPPLY AND WELL

EQUIPPING PROJECT

FRAZIER PARK PUBLIC UTILITY DISTRICT

KERN COUNTY, CALIFORNIA

DRAWN

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CHECKED

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DATE

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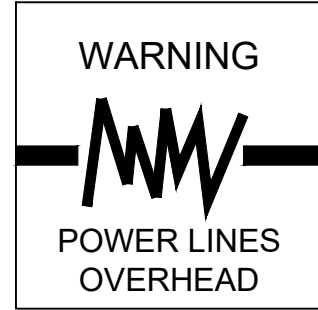
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SHEETS

WELL NO. 8

FRAZIER PARK PUBLIC UTILITY DISTRICT

KERN COUNTY CALIFORNIA



LEGEND

SYMBOL DESCRIPTION

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
F&I	FURNISH AND INSTALL
FBO	FURNISHED BY OTHERS
FLA	FULL LOAD AMPS
GFI OR GFCI	GROUND FAULT CIRCUIT INTERRUPTER
TBB	TELEPHONE BACKBOARD
UON	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF CONSTRUCTION

SYMBOL DESCRIPTION

S	SINGLE POLE SWITCH @ +48" TO TOP OF BOX, UON
S ₃	THREE WAY SWITCH @ +48" TO TOP OF BOX, UON
S ₄	FOUR WAY SWITCH @ +48" TO TOP OF BOX, UON
S _M	WALL SWITCH WITH INTEGRAL OCCUPANCY SENSOR @ +48" TO TOP OF BOX, UON
S _M	MOTOR RATED SWITCH @ +48" TO TOP OF BOX, UON
S ₀	SINGLE POLE SWITCH WITH DIMMER @ +48" TO TOP OF BOX, UON
OS	OCCUPANCY/MOTION SENSOR
TS	THERMOSTAT

	ELECTRICAL PANEL PER PLANS
	LIGHTING PANEL PER PLANS
	ELECTRICAL GUTTER BOX PER PLANS
	PANEL CLEARANCE AREA

	CIRCUIT HOMERUN, DESIGNATES PANEL "X" & CIRCUIT #
	CONDUIT NEW, ABOVE GROUND
	CONDUIT NEW, IN FLOOR/UNDERGROUND
	CONDUIT EXISTING, UNDERGROUND
	CONDUIT EXISTING, ABOVE GROUND
	UFER GROUND
	CONDUIT RUN - STUBBED, CAPPED AND LABELED
	FLEXIBLE CONDUIT
	CONDUIT NUMBER
	GROUND CONNECTION TO EQUIPMENT
	CADWELD OR EXOTHERMIC WELD PER PLANS

	LIGHTING FIXTURE; LETTER INDICATES FIXTURE TYPE PER FIXTURE SCHEDULE
	RECESSED LIGHTING FIXTURE; LETTER INDICATES FIXTURE TYPE PER FIXTURE SCHEDULE
	LIGHTING FIXTURE EQUIPPED WITH EMERGENCY BATTERY PACK; LETTER INDICATES FIXTURE TYPE PER FIXTURE SCHEDULE
	LIGHTING FIXTURE; LETTER INDICATES FIXTURE TYPE PER FIXTURE SCHEDULE
	LIGHTING FIXTURE EQUIPPED WITH EMERGENCY BATTERY PACK; LETTER INDICATES FIXTURE TYPE PER FIXTURE SCHEDULE
	EXIT LIGHT; LETTER INDICATES FIXTURE TYPE PER FIXTURE SCHEDULE
	POLE MOUNTED LIGHTING FIXTURE; LETTER INDICATES FIXTURE TYPE PER FIXTURE SCHEDULE
	LIGHTING FIXTURE; BEACON TYPE PER FIXTURE SCHEDULE

	DESIGNATES MECHANICAL EQUIPMENT
--	---------------------------------

	DESIGNATES NOTES
--	------------------

	PULLBOX
	UTILITY POLE

	A/C AIR CONDITIONER
	AC AIR COMPRESSOR
	AFS AIR FLOW SENSOR
	CHLORINE RESIDUAL ANALYZER
	CHLORINE METERING PUMP
	DIFFERENTIAL PRESSURE TRANSMITTER
	E-STOP
	FLOW INDICATING TRANSMITTER
	FLOAT SWITCH
	HIGH LEVEL SWITCH
	HIGH PRESSURE SWITCH
	LEAK SENSOR
	LOW LEVEL SWITCH
	LEVEL INDICATING TRANSMITTER
	MOTOR OPERATED VALVE
	PRESSURE INDICATING TRANSMITTER
	PRESSURE SWITCH
	RADAR LEVEL SENSOR
	SOLENOID VALVE
	ULTRASONIC LEVEL SENSOR
	ZERO SPEED SWITCH

SYMBOL DESCRIPTION

	FLUSH MOUNTED FLOOR BOX
	SINGLE RECEPTACLE IN WALL @ +18", UON SUBSCRIPT 'AC' INDICATES ABOVE COUNTER
	DUPLEX RECEPTACLE IN WALL @ +18", UON SUBSCRIPT 'AC' INDICATES ABOVE COUNTER
	DUPLEX GFI RECEPTACLE IN WALL @ +18", UON SUBSCRIPT 'AC' INDICATES ABOVE COUNTER
	CONTROLLED OUTLET @ +18", UON
	WEATHER PROOF DUPLEX GFI RECEPTACLE IN WALL @ +18", UON
	WEATHER PROOF WHILE IN USE COVER DUPLEX GFI RECEPTACLE IN WALL @ +18", UON
	DUPLEX ISOLATED GROUND RECEPTACLE IN WALL @ +18", UON
	QUADRUPLEX RECEPTACLE IN WALL @ +18", UON
	250V SINGLE PHASE OUTLET IN WALL @ +18", UON
	DUPLEX RECEPTACLE IN CEILING
	JUNCTION BOX
	DISCONNECT SWITCH, SIZED PER LOAD SERVED
	ELECTRIC MOTOR
	EXHAUST FAN

SHEET INDEX

SCOPE OF WORK

NOTES:

- CONDUIT ROUTING SHOWN AS DIAGRAMMATIC. DOES NOT INDICATE TRENCH AND CONDUIT LAYOUT.

ELECTRICAL CONSTRUCTION MATERIAL NOTES

PER CEC 110.12 ELECTRICAL INSTALLATION TO BE NEAT AND WORKMANLIKE. SEE NECA 1 STANDARD FOR GOOD WORKMANSHIP AND NECA 101 STANDARD FOR INSTALLING STEEL CONDUIT FOR REQUIREMENTS.

ABOVE GRADE - HOT DIPPED GALVANIZED RIGID STEEL CONDUIT TO BE USED FOR ALL EXTERIOR AND INTERIOR LOCATIONS ABOVE GRADE OR ELSEWHERE SHOWN ON PLANS. ALL RIGID CONDUIT AND FITTINGS TO BE THREADED. USE OF SET SCREW OR COMPRESSION TYPE CONNECTOR IS PROHIBITED. MEYERS HUBS TO BE USED ON ALL EXTERIOR PANEL CONNECTIONS.

BELOW GRADE - RIGID PVC NONMETALLIC CONDUIT SCHEDULE 40 TO BE USED FOR ALL UNDERGROUND LOCATIONS AND BELOW VAPOR BARRIER OF SLAB. NO CONDUITS SHALL BE INSTALLED TO REDUCE THE STRUCTURAL INTEGRITY OF FOOTINGS. MANDREL ALL CONDUITS PRIOR TO PULLING WIRE

CHEMICAL BUILDINGS AND CORROSIVE ATMOSPHERES - RIGID PVC NONMETALLIC CONDUIT SCHEDULE 80 TO BE USED FOR ALL INTERIOR LOCATIONS ABOVE GRADE IN CHEMICAL BUILDINGS AND CORROSIVE ENVIRONMENTS.

THROUGH CONCRETE SLABS AND EXTERIOR CORROSIVE ATMOSPHERES - PVC COATED GALVANIZED RIGID STEEL CONDUIT MINIMUM 40 MIL FACTORY COATING TO BE USED FOR ALL EXPOSED CONDUITS THROUGH CONCRETE SLABS (MINIMUM 12" ABOVE AND BELOW SLAB) AND ALL EXTERIOR LOCATION CORROSIVE ATMOSPHERES. USE MANUFACTURERS' SPECIFIED TOOLS AND PROCEDURES FOR INSTALLATION.

MOTORS AND SENSOR CONNECTIONS - LIQUID TIGHT FLEXIBLE METAL CONDUIT (UV RESISTANT) TO ONLY BE USED ON CONNECTIONS TO MOTORS AND SENSORS OR TO ISOLATE VIBRATION. MAXIMUM LENGTH TO BE 30".

JUNCTION BOXES - MINIMUM SIZE PER NEC. EXPOSED LOCATION, 1 AND 2 GANG TO BE CAST IRON DEVICE BOXES TYPE FS/FD SUITABLE FOR WET LOCATIONS. EXPOSED LOCATION EXTERIOR LARGER SIZES CONTINUOUS HINGE TYPE 4, CORROSIVE LOCATIONS CONTINUOUS HINGE TYPE 4X STAINLESS STEEL.

GROUND CONNECTIONS - GROUND CONNECTIONS TO BE EXOTHERMIC CADWELD (ALL 600 AMP OR LARGER SERVICE) OR BURNDY HYDRAULIC COMPRESSION CONNECTORS. GROUND BUS CONNECTIONS TO BE CRIMP LUG TYPE WITH BOLTED CONNECTION TO GROUND BUS.

480 VOLT AND BELOW POWER WIRING SHALL BE XHHW-2 COPPER. ALL POWER CONNECTIONS TO BE TREATED WITH ANTIOXIDANT COMPOUND. ALL VFD MOTOR CABLE TO BE SHIELDED, INVERTER DUTY. SHIELD GROUNDED AT BOTH ENDS.

CLASS 1, DIVISION 1 WIRING PER CEC 501.10A - PVC COATED THREADED RIGID METAL CONDUIT, RIGID METAL CONDUIT OR ALUMINUM CONDUIT PER OWNER'S DIRECTION IS REQUIRED. RIGID PVC CONDUIT ENCASED IN MINIMUM 2" CONCRETE AND MINIMUM 36" BELOW GRADE IS ALLOWED PER PRIOR APPROVAL. ALL CONNECTIONS TO BE WRENCH TIGHT MINIMUM 5 THREADS ENGAGED. FLEXIBLE FITTINGS TO BE EXPLOSION PROOF PER UL 1203. INTRINSICALLY SAFE (INCAPABLE OF CAUSING IGNITION) IS ALLOWED FOR SENSORS IF ISOLATED FROM NON-INTRINSICALLY SAFE WIRING.

CONTACT OWNER'S ELECTRICAL REPRESENTATIVE TO SCHEDULE AN ELECTRICAL PRE-CONSTRUCTION MEETING PRIOR TO COMMENCING CONSTRUCTION

CURRENT APPLICABLE CODES

ALL ELECTRICAL EQUIPMENT AND MATERIAL AND ITS INSTALLATION SHALL CONFORM TO THE CURRENT REQUIREMENTS OF THE FOLLOWING AUTHORITIES:

CALIFORNIA CODE OF REGULATIONS, TITLE 8, INDUSTRIAL SAFETY

CALIFORNIA CODE OF REGULATIONS, TITLE 19, PUBLIC SAFETY

CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 1, ADMINISTRATIVE REGULATIONS

CALIFORNIA BUILDING CODE (CBC), TITLE 24, PART 2

CALIFORNIA ELECTRICAL CODE (CEC), TITLE 24, PART 3

CALIFORNIA MECHANICAL CODE (CMC), TITLE 24, PART 4

CALIFORNIA PLUMBING CODE (CPC), TITLE 24, PART 5

CALIFORNIA ENERGY CODE, TITLE 24, PART 6

CALIFORNIA FIRE CODE (CFC), TITLE 24, PART 9

CALIFORNIA EXISTING BUILDING CODE (CBSC), TITLE 24, PART 10

CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN CODE), TITLE 24, PART 11

CALIFORNIA REFERENCE STANDARD CODE (CRSC), TITLE 24, PART 12

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE

REGULATIONS OF THE DIVISION OF THE STATE ARCHITECT OF THE STATE OF CALIFORNIA, OFFICE OF REGULATION SERVICES

LOCAL UTILITY GAS AND ELECTRICAL SERVICE REQUIREMENTS

WHERE TWO OR MORE CODES CONFLICT, THE MOST RESTRICTIVE SHALL APPLY. NOTHING IN THESE PLANS AND SPECIFICATIONS SHALL BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO APPLICABLE CODES.

ARC FLASH LABELING

COMPLIANCE WITH CEC 110.16 AND NESC RULE 410 SHALL BE PROVIDED. ELECTRICAL EQUIPMENT THAT IS LIKELY TO REQUIRE EXAMINATION ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED, SHALL BE FIELD OR FACTORY MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC HAZARDS. THE MARKING SHALL MEET THE REQUIREMENTS OF CEC 110.21 AND NFPA 130 AND SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTED, SERVICING MAINTENANCE OF THE EQUIPMENT.

COORDINATION AND ARC FLASH STUDY SHALL BE COMPLETED AFTER PROJECT INSTALLATION TO VERIFY INSTALLED EQUIPMENT, POWER CABLE TYPE, AND POWER CABLE TYPE. ARC FLASH, SHORT CIRCUIT, AND COORDINATION STUDY SHALL BE PERFORMED, STAMPED, AND SIGNED BY A LICENSED CALIFORNIA PROFESSIONAL ELECTRICAL ENGINEER AND PER NFPA 130.

ARC FLASH, SHORT CIRCUIT, AND COORDINATION STUDY MUST BE REVIEWED AT MOST EVERY 5 YEARS PER NFPA 130.5(H).

ARC FLASH, SHORT CIRCUIT, AND COORDINATION STUDY MUST BE PERFORMED WITH ANY CHANGES TO THE ELECTRICAL SYSTEM PER NFPA 130.

PRELIMINARY
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DATE: September 2025
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DRWN: CH
UPD: ---
FILE: E01-LEGEND & SHEET INDEX
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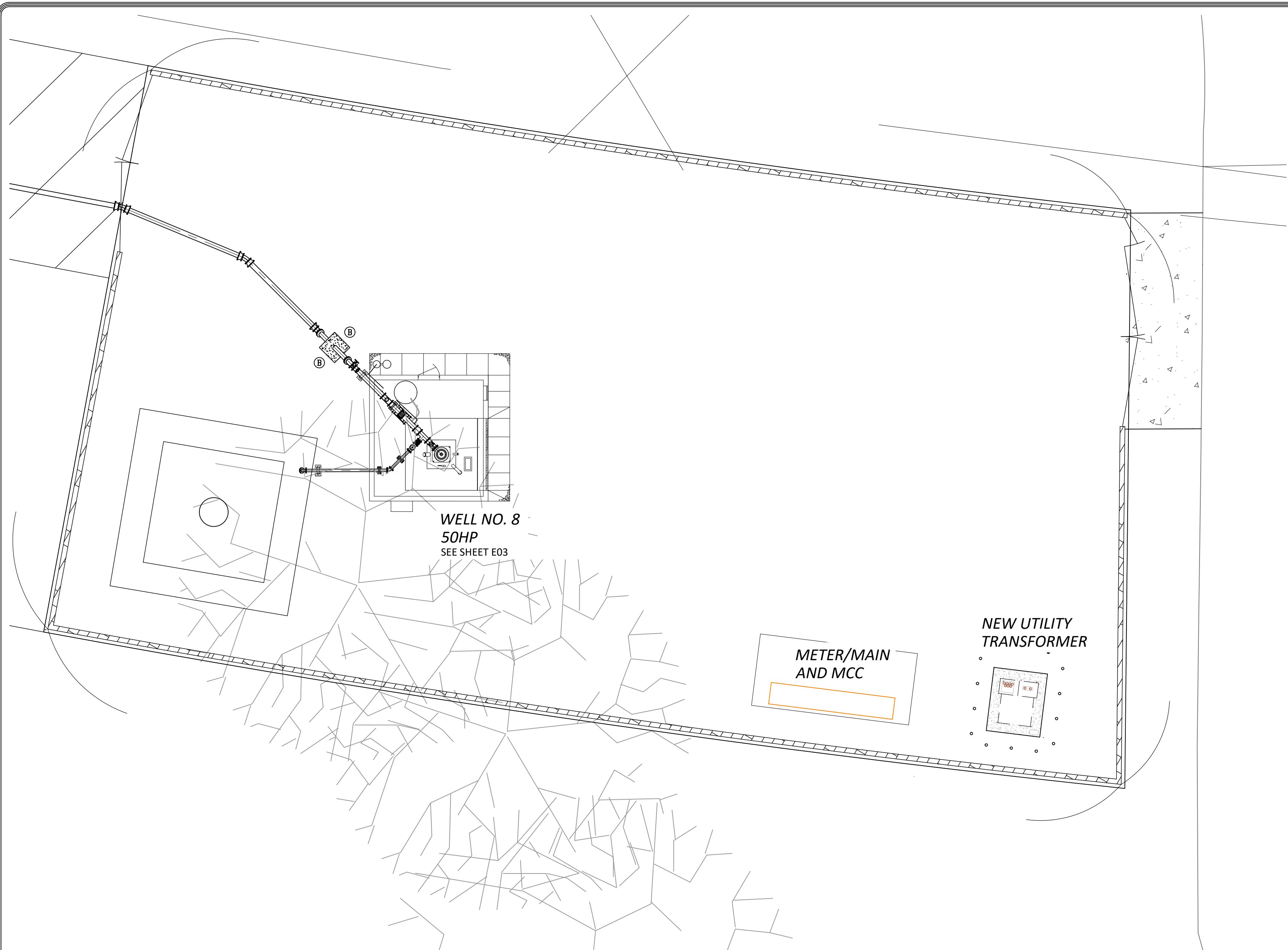
ELECTRICAL POWER SYSTEMS
ENGINEERING SOLUTIONS
2187 Herndon Ave #102 Clovis CA 93611 (559) 221-7230
JOE PREVENDAR P.E. CA EE 16581 ABDUR REHMAN P.E. CA EE 22090
joe@epsfresno.com abdur@epsfresno.com
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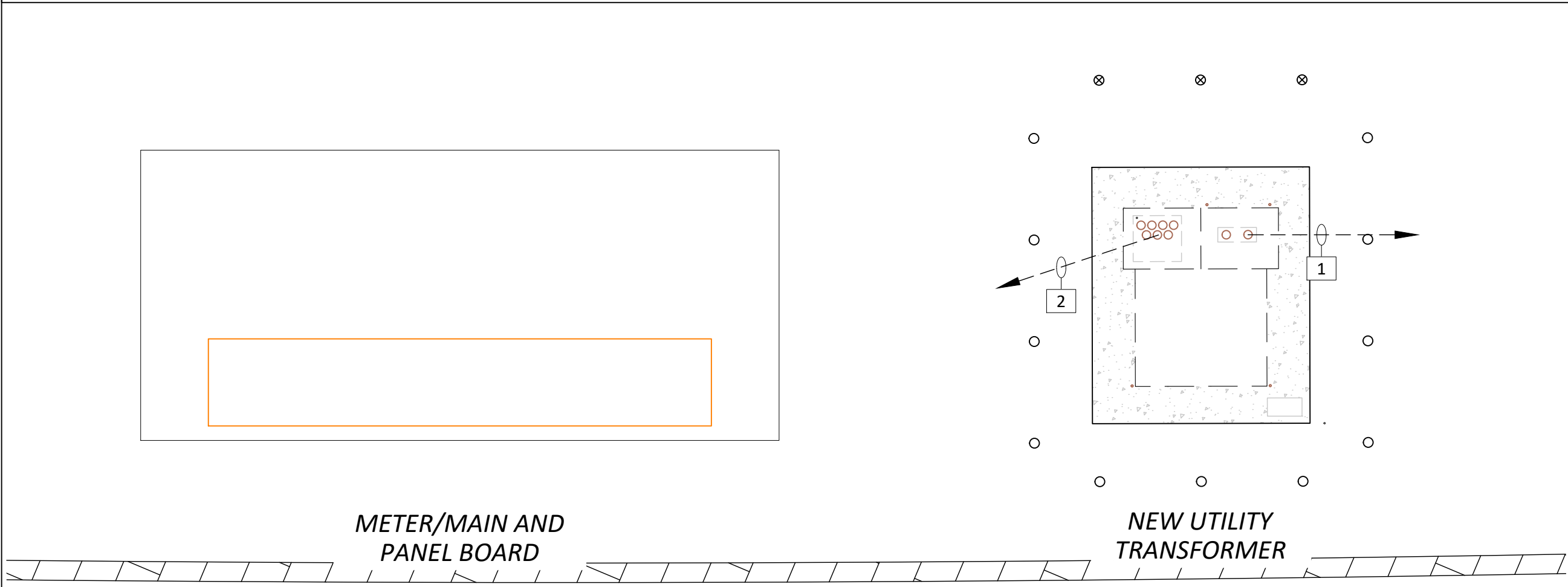
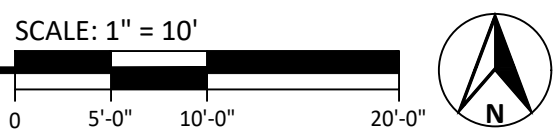
DEE JASPAR & ASSOCIATES, INC.
2720 UNION ROAD, SUITE 100
BAKERSFIELD, CALIFORNIA 93308
PORTERVILLE, CALIFORNIA 93267
PHONE 866 383-4799
FAX 866 383-4799
PHONE 559 781-9975
FAX 559 781-9975

LEGEND & SHEET INDEX
WATER SUPPLY AND WELL EQUIPPING PROJECT
FRAZIER PARK PUBLIC UTILITY DISTRICT KERN COUNTY, CALIFORNIA

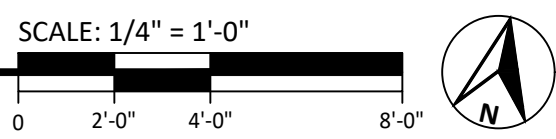
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WELL NO. 8 ELECTRICAL SITE PLAN



ENLARGED ELECTRICAL AREA



CABLE AND CONDUIT SCHEDULE

NO.	QTY	SIZE	NO. WIRES	WIRE SIZE	GND	TAG	FUNCTION	FROM	TO
1							Utility Primary	PG&E Utility Pole	PG&E Transformer
2							Utility Secondary	PG&E Transformer	MCC
3	1	1 1/4"	3	#4	#8		Pump Motor	MCC	Pump Motor
4	1	1"	4	#12	#12		Winding HTR/Overtemp Sw.	MCC	Pump Motor
5	1	3/4"	2	#12	#12		Pump Lube Solenoid	MCC	Pump Motor
6	1	1"	6	#12	#12		Pump Control Valve	MCC	Pump Control Valve
7	1	1"	2	#12	#14		Pump Pressure Switch	HPS	MCC
8	1	3/4"	1	#18 TSP			Pump Pressure Transmitter	Pump Pressure Transmitter	LC
9	1	3/4"	2	#12	#12		Flow meter power	LP	Flow Transmitter
10	1	3/4"	2	#18 TSP			Flow 4-20ma/Totalizer	Flow Transmitter	LC
11									
12	1	3/4"	2	#12	#12		Well Bldg Vent Fan	LP	Well Bldg Vent Fan
13	1	3/4"	2	#10	#10		Outside Flood Lighting	LP	Outside Flood Lighting
14	1	3/4"	2	#12	#12		GFI Outlets	LP	GFI Outlets
15	1	3/4"	2	#12	#12		Well Bldg Light	LP	Well Bldg Light
16	1	3/4"	2	#18 TSP			Well Level	LIT	LC
17	1	3/4"	2	#12	#12		Sunscreen Light	LP	Sunscreen Light
18	1	3/4"	4	#12	#12		Hypo Metering Pump Power	LP/SSRV	CPH/Hypo Metering Drive
19	1	1"	3	Belden 9773			Hypo Metering Pump Rate	PLC	Hypo Metering Drive
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21									
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DEE JASPAR & ASSOCIATES, INC.
ELECTRICAL ENGINEERING
2720 LINCOLN ROAD, SUITE 100
BAKERSFIELD, CALIFORNIA 93308
PHONE: 805.383.4799
FAX: 805.383.4798
PORTERVILLE, CALIFORNIA 93257

WELL NO. 8 ELECTRICAL SITE PLAN
WATER SUPPLY AND WELL
EQUIPPING PROJECT

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PRELIMINARY

JOB: DJA23159

DATE: September 2025

DSGN: #####

DRWN: CH

UPD: ---

FILE: E02-WELL NO. 8 ELECTRICAL SITE PLAN

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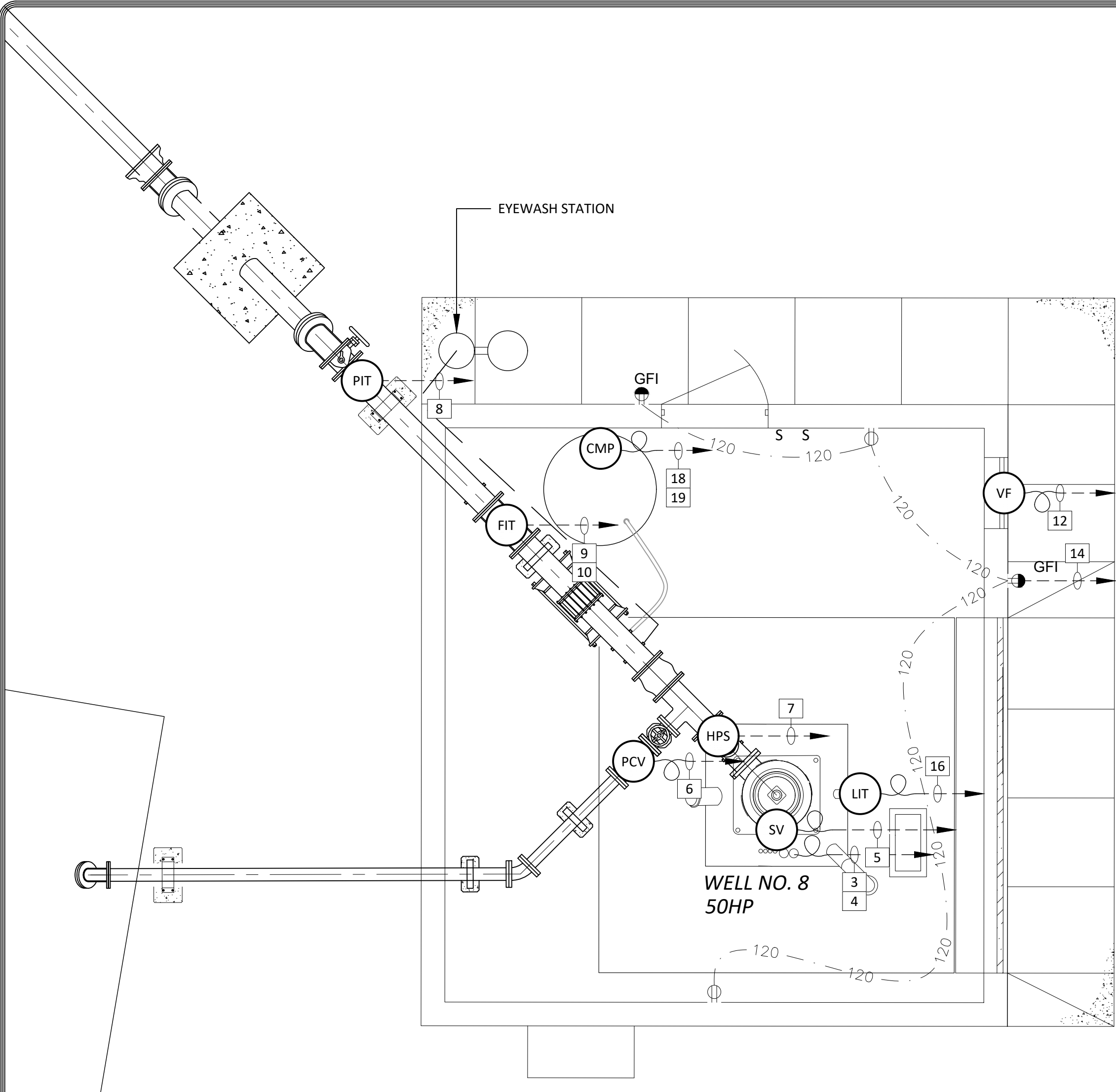
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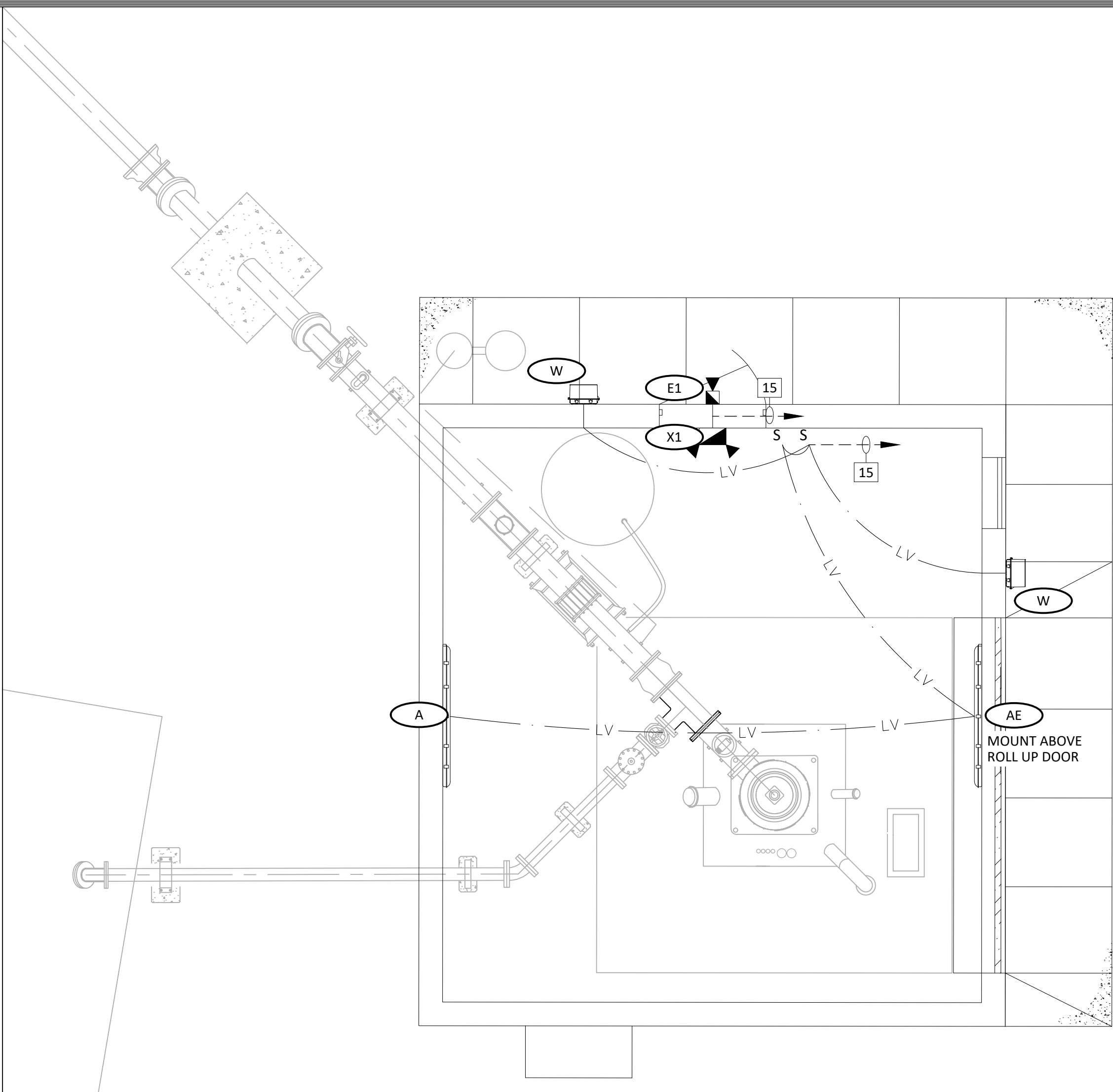
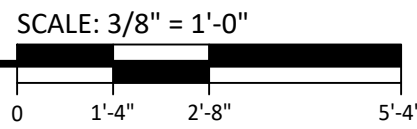
JOE PREVENDAR P.E. CA EE 16581 ABDUR REHMAN P.E. CA EE 22090

joe@epsfresno.com abdur@epsfresno.com

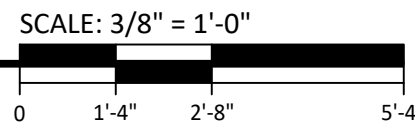
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BUILDING ELECTRICAL PLAN



BUILDING LIGHTING PLAN



CABLE & CONDUIT SCHEDULE

NO.	QTY	SIZE	NO. WIRES	WIRE SIZE	GND	TAG	FUNCTION	FROM	TO
1							Utility Primary	PG&E Utility Pole	PG&E Transformer
2							Utility Secondary	PG&E Transformer	MCC
3	1	1 1/4"	3	#4	#8		Pump Motor	MCC	Pump Motor
4	1	1"	4	#12	#12		Winding HTR/Overtemp Sw.	MCC	Pump Motor
5	1	3/4"	2	#12	#12		Pump Lube Solenoid	MCC	Pump Motor
6	1	1"	6	#12	#12		Pump Control Valve	MCC	Pump Control Valve
7	1	1"	2	#12	#14		Pump Pressure Switch	HPS	MCC
8	1	3/4"	1	#18 TSP			Pump Pressure Transmitter	Pump Pressure Transmitter	LC
9	1	3/4"	2	#12	#12		Flow meter power	LP	Flow Transmitter
10	1	3/4"	2	#18 TSP			Flow 4-20ma/Totalizer	Flow Transmitter	LC
11									
12	1	3/4"	2	#12	#12		Well Bldg Vent Fan	LP	Well Bldg Vent Fan
13	1	3/4"	2	#10	#10		Outside Flood Lighting	LP	Outside Flood Lighting
14	1	3/4"	2	#12	#12		GFI Outlets	LP	GFI Outlets
15	1	3/4"	2	#12	#12		Well Bldg Light	LP	Well Bldg Light
16	1	3/4"	2	#18 TSP			Well Level	LIT	LC
17	1	3/4"	2	#12	#12		Sunscreen Light	LP	Sunscreen Light
18	1	3/4"	4	#12	#12		Hypo Metering Pump Power	CPH/Hypo Metering Drive	
19	1	1"	3	Belden 9773			Hypo Metering Pump Rate	PLC	Hypo Metering Drive
20									
21									
22									
23									

PRELIMINARY

JOB: DJA23159

DATE: September 2025

DSGN: #####

DRWN: CH

UPD: ---

FILE: E03-ENLARGED WELL NO. 8 SITE PLAN

PLOT: 9/23/2025 3:28 PM

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ENGINEERING SOLUTIONS

2187 Herndon Ave #102 Clovis CA 93611 (559) 221-7230

JOE PREVENDAR P.E. CA EE 16581 joe@epsfresno.com

ABDUR REHMAN P.E. CA EE 22090 abdur@epsfresno.com

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DEE JASPAR & ASSOCIATES, INC.

2720 LINCOLN ROAD, SUITE 100
BAKERSFIELD, CALIFORNIA 93308

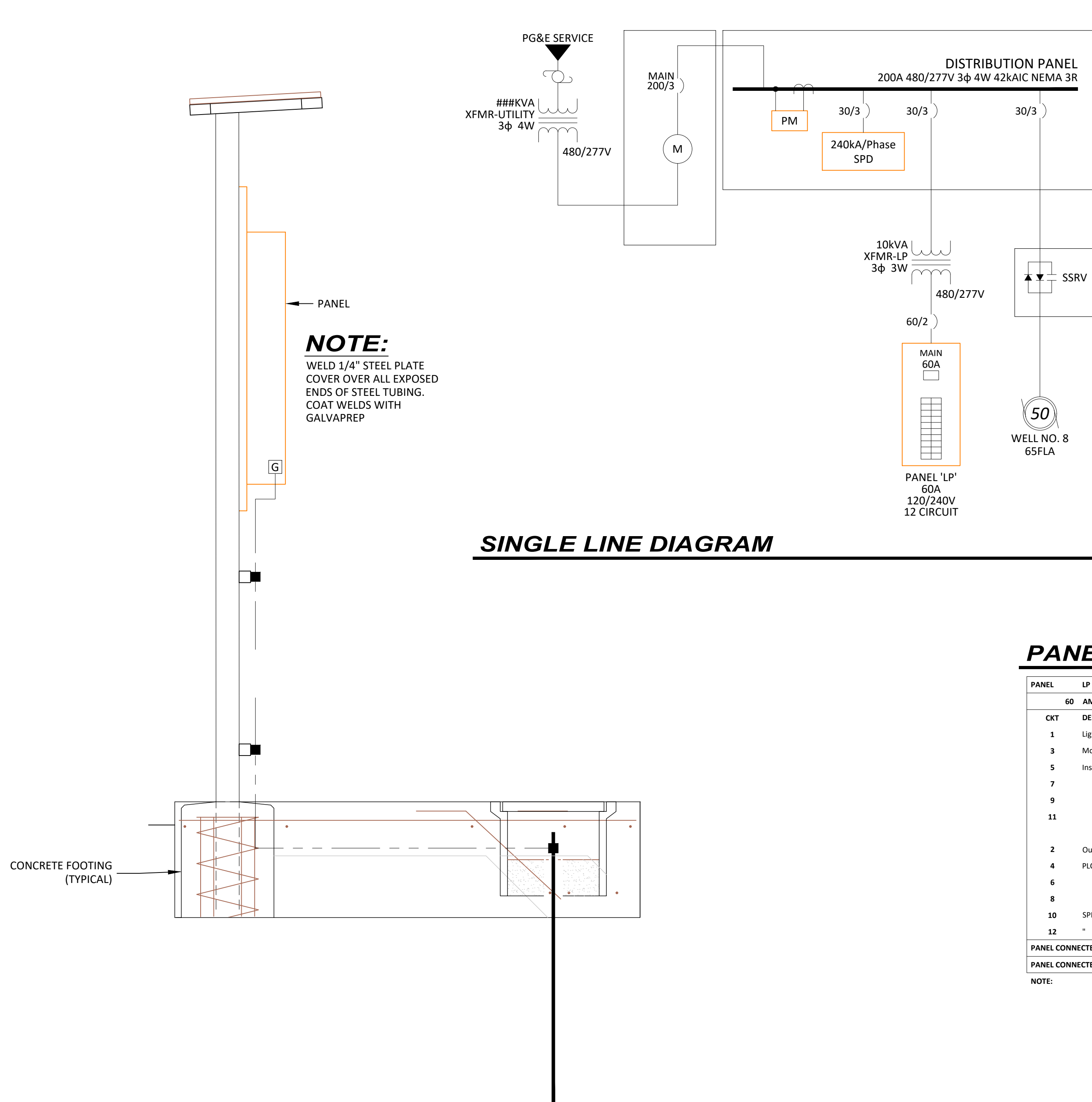
PHONE 805.383.4799
FAX 805.383.4799
PORTERVILLE, CALIFORNIA 93257

ENLARGED WELL NO. 8 SITE PLAN

WATER SUPPLY AND WELL
EQUIPPING PROJECT

###

DRAWN
CHECKED
DATE
SCALE
JOB NO.
SHEET E03
OF --- SHEETS



1. ALL PANELS EXPOSED TO WEATHER SHALL BE MINIMUM NEMA 3R RATED.
2. PANEL FINISH TO MEET UL 1332 CODE FOR COATING OF STEEL ENCLOSURES FOR OUTDOOR EQUIPMENT AND ASTM B117 FOR CORROSION RESISTANCE.
3. FINAL FINISH PAINT COAT TO BE WHITE.
4. ALL SECTIONS TO INCLUDE THERMOSTATICALLY CONTROLLED SPACE HEATER TO PREVENT CONDENSATION.
5. ALL SECTIONS TO INCLUDE AN LED STRIP LIGHT FOR MAINTENANCE LIGHTING CONTROLLED BY DOOR SWITCH.
6. ALL COOLING COMPONENTS TO HAVE 100% REDUNDANT CAPACITY
7. VFD AND OPENING TO INCLUDE RODENT AND INSECT SCREENING
8. ENCLOSURES TO INCLUDE DUST GASKETING.
9. DOORS TO BE 3 POINT LATCHING EXTERIOR WITH NO EXPOSED CONTROLS ON THE OUTER DOOR AND PROVISIONS FOR PAD LOCK.
10. ALL CB, PANELS, VFD AND ENCLOSURES TO BE LABELED WITH LAMICOID TAGS WITH 2-S.S. SCREWS.

NEMA 3R
SINGLE BOARD: WOOD BOARDS MUST BE MINIMUM 2" THICK BY 12" WIDE (NOMINAL). METAL BOARDS MUST BE MINIMUM 1/2" THICK BY 12" WIDE.
SOLID SHEET PANELS: WOOD SHEETS MUST BE 1" THICK. METAL SHEETS MUST BE 1/4" THICK.
STRUTS: TWO STRUTS ARE NEEDED TO SUPPORT EACH PIECE OF EQUIPMENT (ONE NEAR TOP & ONE NEAR BOTTOM OF EQUIPMENT) AND MUST BE MINIMUM 1/2" X 1-1/2".
USE MINIMUM TWO POSTS TO SUPPORT PANEL CONSTRUCTION. POSTS SHALL BE INSTALLED 72"-96" APART. POSTS ARE REQUIRED TO HAVE A PERMANENT CAP INSTALLED ON TOP. FITTINGS AND ASSOCIATED HARDWARE MUST BE STAINLESS STEEL OR GALVANIZED STEEL.
SECURELY PLUG/FILL ALL UNUSED SCREW HOLES AND OPENINGS WITH APPROVED FASTENERS.
USE SEALANTS ALONG WITH SCREWS, BOLTS, AND OTHER METAL FASTENERS.
A MINIMUM OF 36" OF CLEAR AND LEVEL WORKING SPACE MUST BE MAINTAINED IN FRONT OF THE PANEL BOARD STRUCTURE AT ALL TIMES.
PROPERLY IDENTIFY AND MARK METERS WITH APPROVED SIGNS AS REQUIRED BY CURRENT NEC, CEC, AND NFPA.

3 Phase		277 / 480	Voltage
LOAD DESCRIPTION		LOAD	
50 HP	Well No. 8	65	A
Misc & Panel "LP"			
TOTAL LOAD		65	A
LOAD CORRECTION FACTORS	x 25%	= 16	A
SERVICE MINIMUM SIZE		81	A
REQUIRED UTILITY SERVICE SIZE		200	AMP

Item	Name	ID	HP	FLA	Voltage	Starter typ
1	Well 8	W-8	50	65.0	460	SSRV
2						
3						
4						

PANEL	LP	1PH			
		60	AMPS	120/ 240V	
CKT	DESCRIPTION / LOCATION	BRKR	PLS	Aph	Bph
1	Lights	20	1	2.0	
3	Motor Winding Heater	20	1		2.0
5	Instruments	20	1	2.0	
7		20	1		0.0
9		20	1	0.0	
11		20	1		0.0
2	Outlets	20	1	2.0	
4	PLC	20	1		2.0
6		20	1	0.0	
8		20	1		0.0
10	SPD 120 KA/PH	-	-	0.0	
12	"	-	-		0.0
PANEL CONNECTED AMPERAGE LOAD / PHASE				6.0	4.0
PANEL CONNECTED LOAD				1.20kVA	1.20kW
NOTE: MINIMUM AIC = 22K SYM					



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CIVIL ENGINEERS

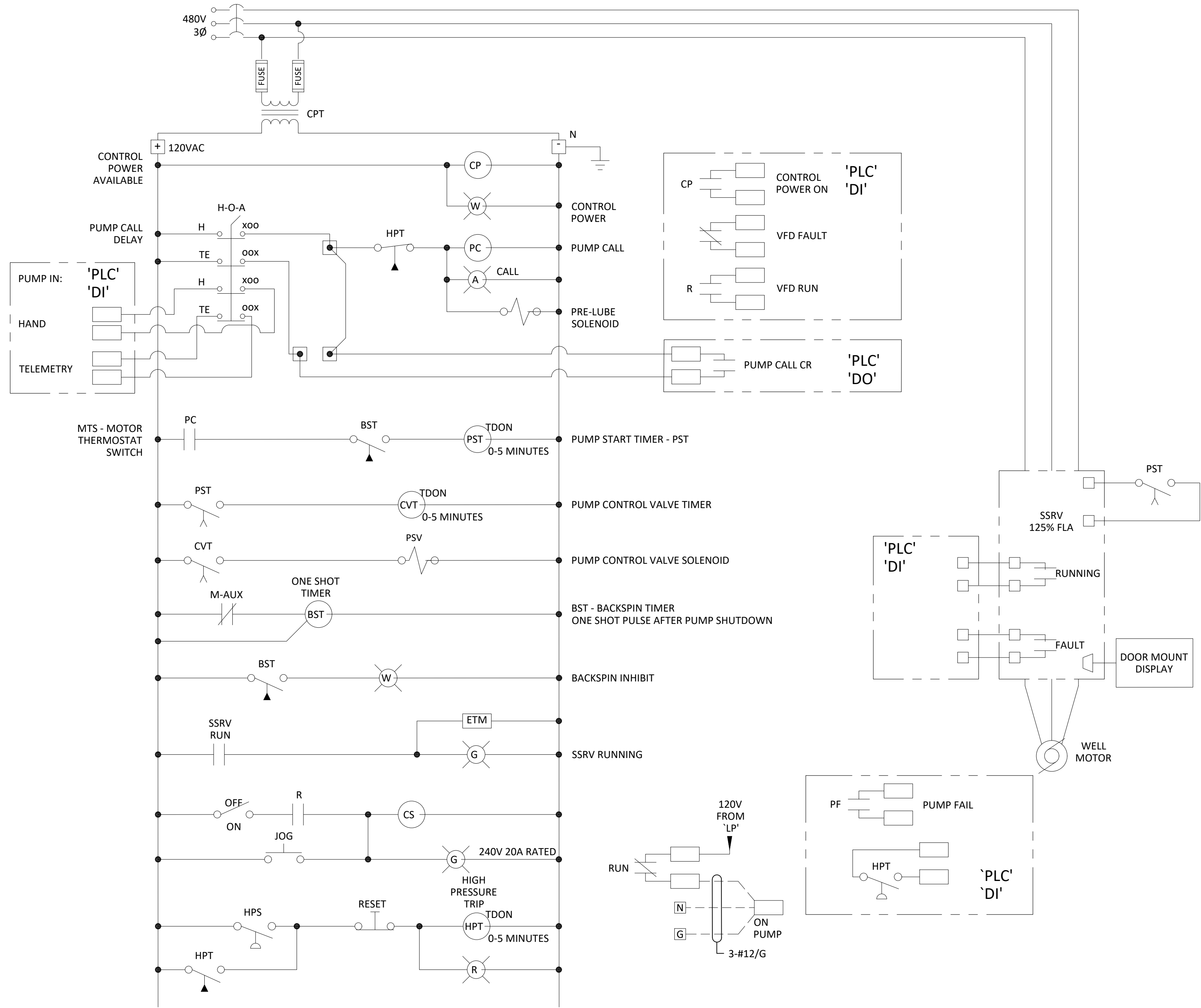
2730 UNICORN ROAD, BLDG A
 BAKERSFIELD, CALIFORNIA 93308
 639 N. MAIN STREET, #B
 PORTERVILLE, CALIFORNIA 93257

PHONE 661 393-1796
 FAX 661 393-1796
 PHONE 559 791-6286
 FAX 559 783-3275

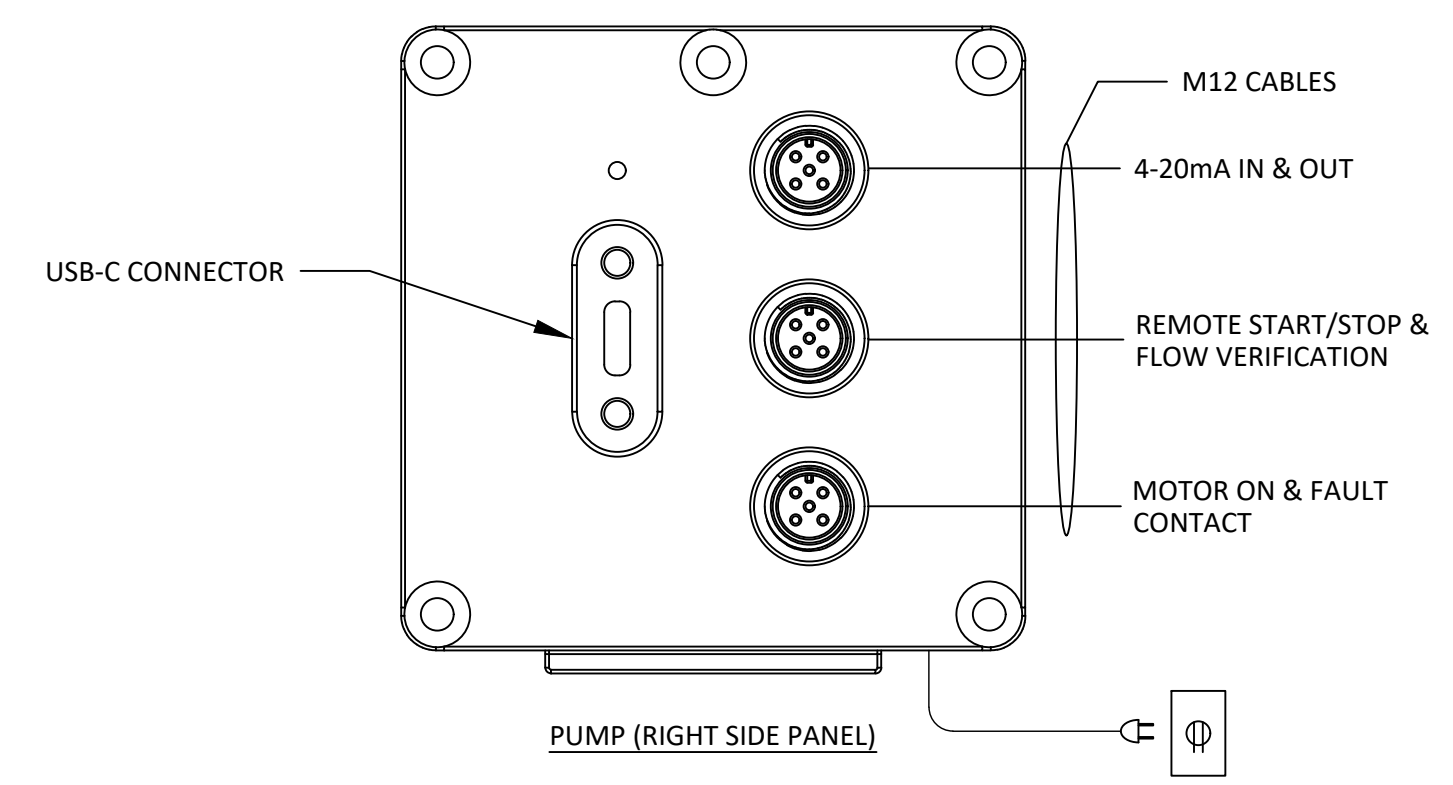
WATER SUPPLY AND WELL
EQUIPPING PROJECT

FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

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OF --- SHEETS



WELL PUMP CONTROL
DIAGRAM SSRV



BLUE-WHITE CHEMICAL
PUMP WIRING

PRELIMINARY

JOB: DJA23159

DATE: September 2025

DSGN: #####

DRWN: CH

UPD: ---

FILE: E05-CONTROL DIAGRAM

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2187 Herndon Ave #102 Clovis CA 93611 (559) 221-7230

JOE PREVENDAR P.E. CA EE 16581 ABDUR REHMAN P.E. CA EE 22090

joe@epsfresno.com abdur@epsfresno.com

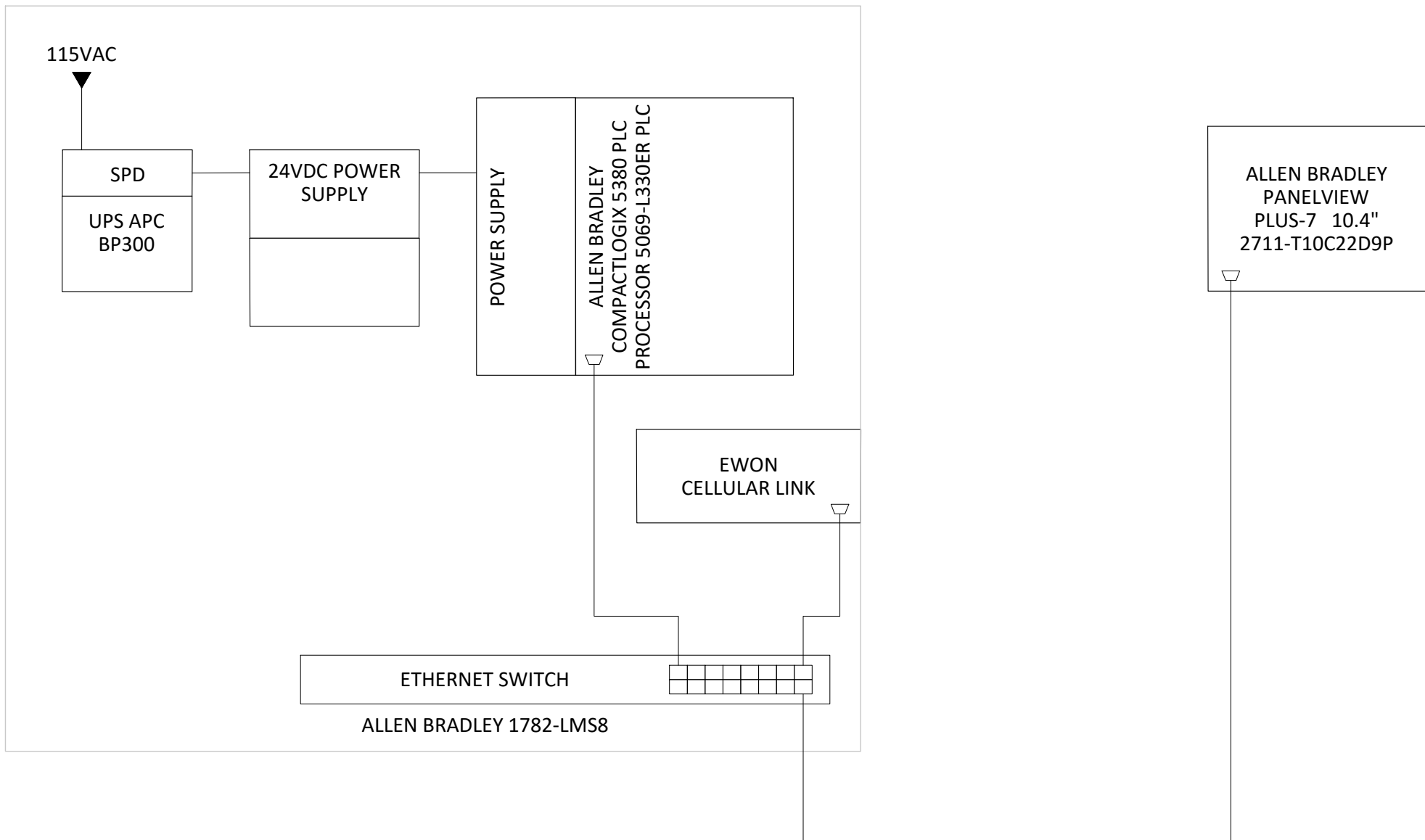
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ELECTRICAL ENGINEERS
2720 LINCOLN ROAD, SUITE 100
BAKERSFIELD, CALIFORNIA 93308
PHONE: 805.383.4799
FAX: 805.383.4799
PORTERVILLE, CALIFORNIA 93257

CONTROL DIAGRAM
WATER SUPPLY AND WELL
EQUIPPING PROJECT
FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

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PLC BLOCK DIAGRAM

PLC I/O

DIGITAL IN 120 VAC		DIGITAL OUT CR		TELEMETRY DATA	
DI1-1	Well 8 VFD Run	DO1-1	Well 8 SSRV Start	FROM WELL	
DI1-2	Well 8 VFD Fault	DO1-2		1	Pump run
DI1-3	Well 8 Auto S.S.	DO1-3		2	Well 8 Flow
DI1-4	Well 8 Hand S.S.	DO1-4		3	Discharge Pressure
DI1-5	High Pressure Switch	DO1-5		4	Well 8 Fault
DI1-6	Spare	DO1-6		5	
DI1-7	Spare	DO1-7		TELEMETRY DATA	
DI1-8	Spare	DO1-8		TO WELL	
DI1-9	Spare	ANALOG IN		1	Well 8 start
DI1-10	Spare	AI1-1	Well 8 Flow	2	Pressure Setpoint
DI1-11	Spare	AI1-2	Well 8 Discharge Pressure	3	
DI1-12	Spare	AI1-3	Well 8 Level		
DI1-13	Spare	AI1-4	Chlorine Residual (Future)		
DI1-14	Spare	ANALOG IN		ANALOG OUT	
DI1-15	Spare	AI1-1	Spare	AI1-1	CI Metering Speed Reference
DI1-16	Spare	AI1-2	Spare	AI1-2	
		AI1-3	Spare	AI1-3	
		AI1-4	Spare	AI1-4	

NAMEPLATE SCHEDULE

No.	Text	Color	Pilot Light
1	Well	White/Black Letters	Lockout Disconnect
	Pump		
	50 HP		
2	10 KVA	White/Black Letters	Lockout Disconnect
	Transformer		
3		White/Black Letters	Lockout Disconnect
4	Start	White/Black Letters	
5	Stop	White/Black Letters	
6	Speed	White/Black Letters	
7	Run	White/Black Letters	Green
8	Start	White/Black Letters	
9	Hand-Off-Auto	White/Black Letters	
10	ETM	White/Black Letters	
11	Fault	White/Black Letters	Red

INSTRUMENT LIST

Type	Tag	Description	Range	Signal
Flow	FIT	Well Flow	0-### GPM	4-20 mA
Pressure	PIT	Pressure Transmitter	0-100 PSI	4-20 mA
Level	LIT	Well Level	0-### FEET	4-20 mA
Pressure Switch	HPS	High Pressure Switch	0-150 PSI	Contact

PRELIMINARY

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JOE PREVENDAR P.E. CA EE 16581 ABDUR REHMAN P.E. CA EE 22090
joe@epsfresno.com abdur@epsfresno.com

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ELECTRICAL ENGINEERING
2720 LINCOLN ROAD, BLDG A
BAKERSFIELD, CALIFORNIA 93308
PHONE 805 383-4799
FAX 805 383-4799
PORTERVILLE, CALIFORNIA 93257
PHONE 559 781-9975
FAX 559 781-9975

PLC IO
WATER SUPPLY AND WELL
EQUIPPING PROJECT
FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

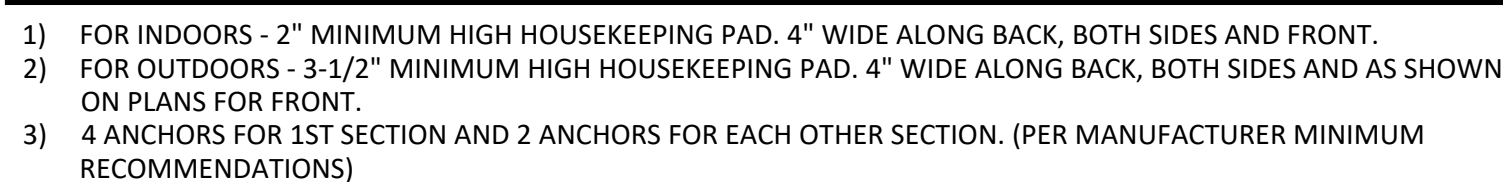
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-
- The diagram shows a cross-section of a building's foundation and electrical system. A concrete slab is shown with a ground rod passing through it. The ground rod is connected to a ground bus, which is in turn connected to the building's neutral bus and a GFI. The ground rod is also connected to the building's steel structure and an incoming steel cold water pipe. The diagram includes the following labels and callouts:
- NEUTRAL
 - GFI
 - BOND TO BUILDING STEEL
 - NEUTRAL BUS TO GROUND BUS BOND CONNECTION
 - GROUND ROD MAXIMUM HEIGHT ABOVE SLAB IS 6"
 - GROUND BUS
 - #4/0 BARE COPPER UFER GROUND TO GROUND GRID, MINIMUM LENGTH 25', MINIMUM 3" CONCRETE ENCASEMENT
 - APPROVED GROUND CLAMP
 - BOND TO INCOMING STEEL COLD WATER PIPE
 - TYPICAL 3/4"x10" COPPER CLAD GROUND ROD, MIN. 12" FROM EDGE OF SLAB AND 10' FROM GROUND ROD IN SERVICE SECTION

NOTE: SERVICE GROUND SIZE AS SHOWN OR AS PER TABLE 250-94-CEC (CURRENT).
ALL GROUND CONDUCTORS TO BE COPPER.
ALL LOAD, NEUTRAL, OR BRANCH EQUIPMENT GROUNDING TERMINALS OR NEUTRAL
DISCONNECT LINK REQUIRE POLY BARRIERS TO PREVENT EXPOSURE TO LIVE BUS
600A OR LARGER SERVICES SHALL BE THERMOWELD OR SIMILAR

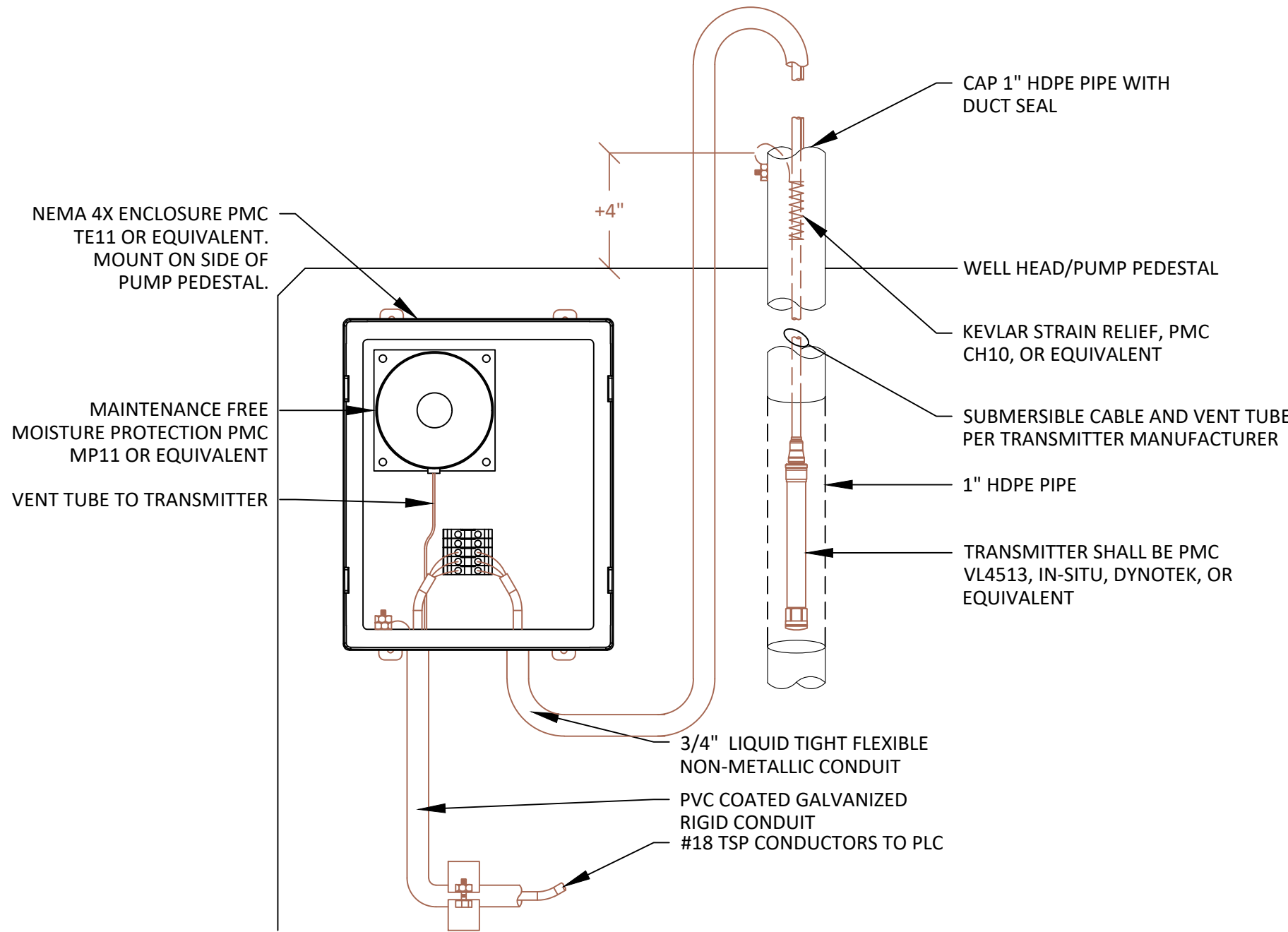
- UTILITY DISCONNECT LINK, READILY ACCESSIBLE. MARKED:
- WARNING!**
"REMOVAL OF THIS LINK REMOVES CUSTOMER GROUNDING TO NEUTRAL OF SUPPLY SIDE"



ELECTRICAL DETAILS
WATER SUPPLY AND WELL
EQUIPPING PROJECT
FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

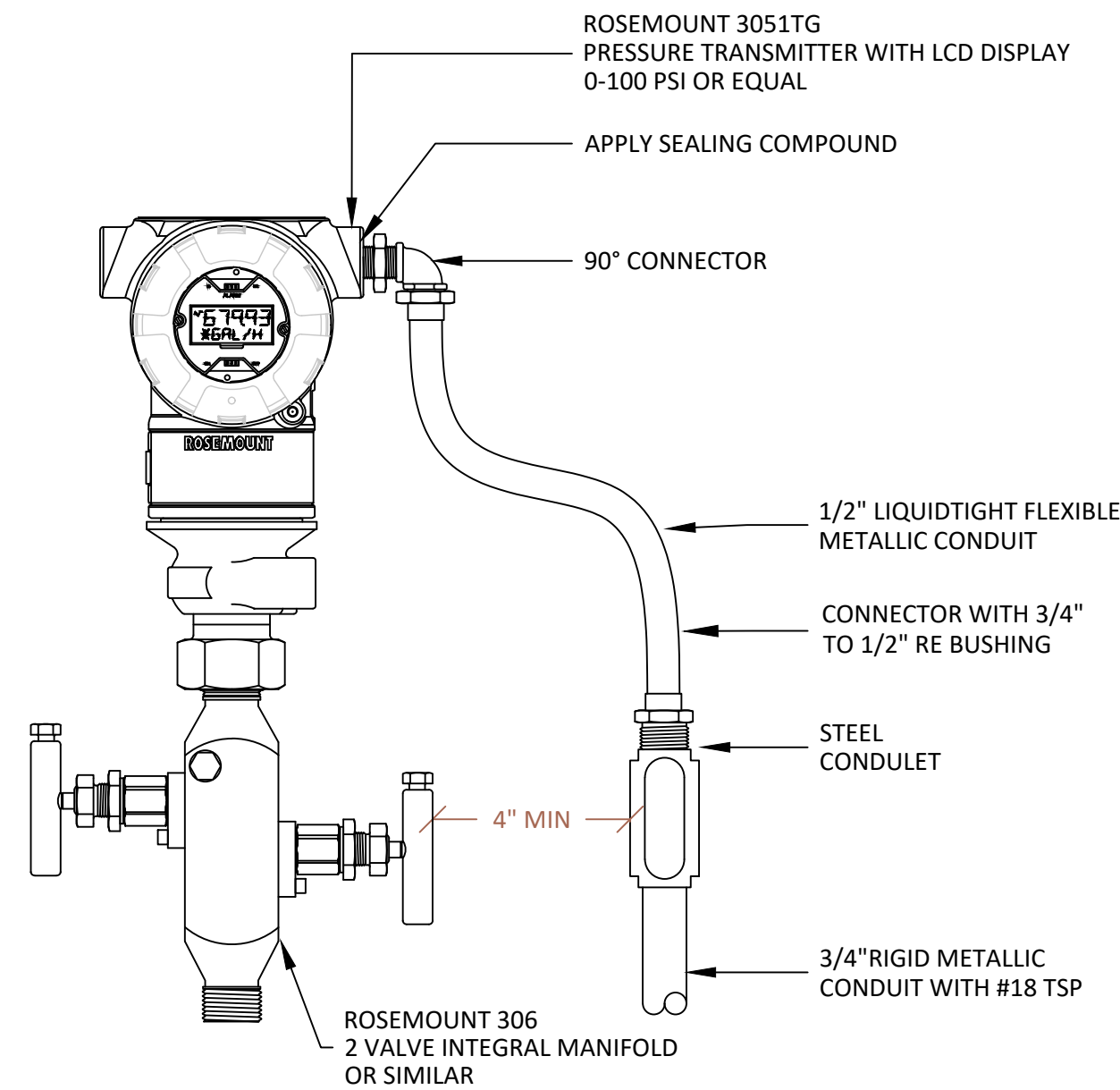
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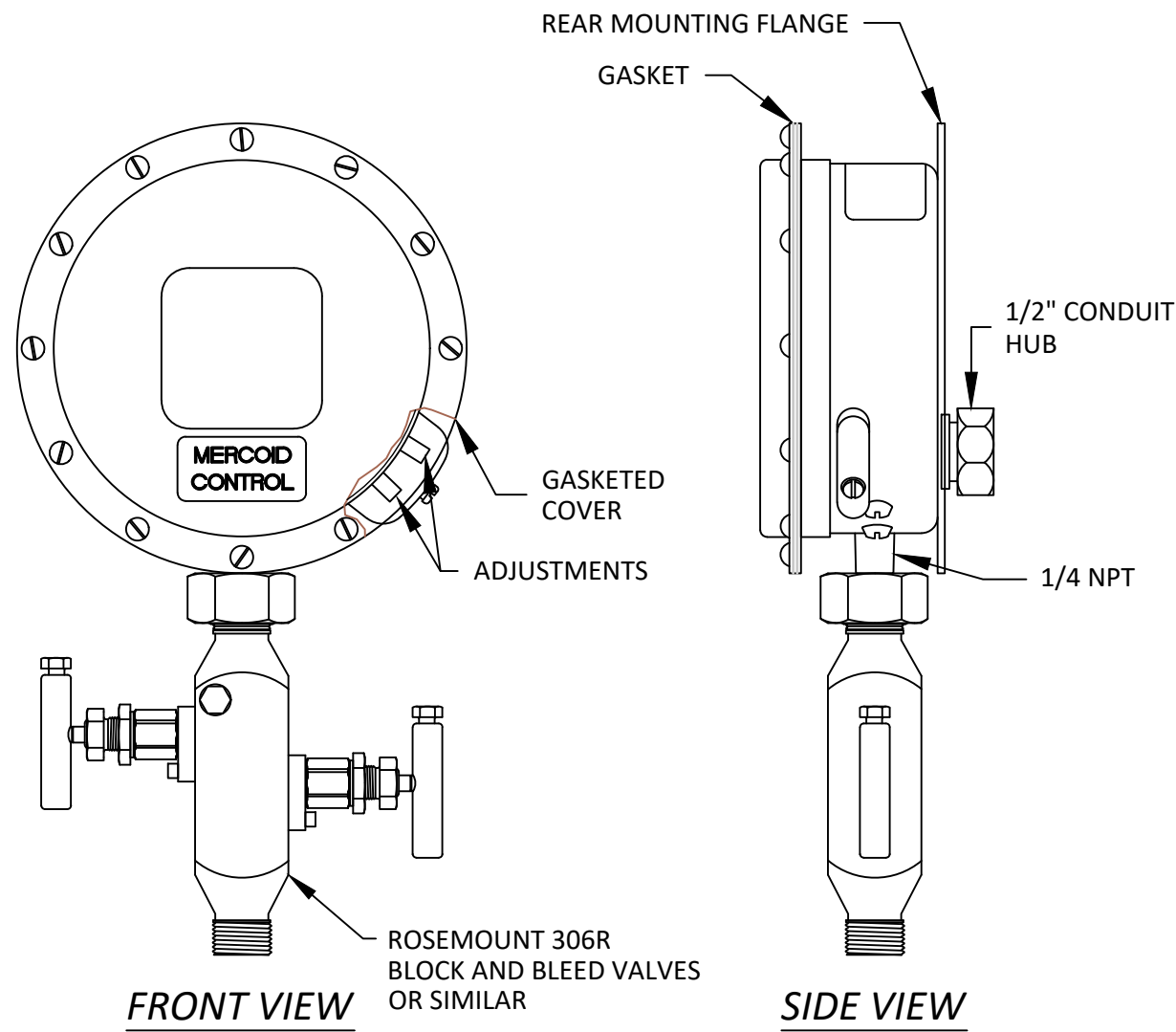
SUBMERSIBLE PRESSURE WELL LEVEL TRANSMITTER

- NOTES:
1. PMC VL4513 LEVEL TRANSMITTER, TITANIUM WITH VENTED CABLE AND KEVLAR STRAIN RELIEF, IN-SITU LEVELTROLL 500 TRANSMITTER, TITANIUM WITH VENTED CABLE AND KELLUM GRIP STRAIN RELIEF OR EQUAL.
 2. VENT TERMINATOR- PMC TE-11 MAINTENANCE FREE NEMA 4X TERMINATION ENCLOSURE.
 3. RANGE PER SETTING DEPTH BY CIVIL ENGINEER (WATER TOP OF BOWLS: 4 MA 185' FEET SETTING DEPTH), (SURFACE LEVEL: 20 MA 0 FEET).



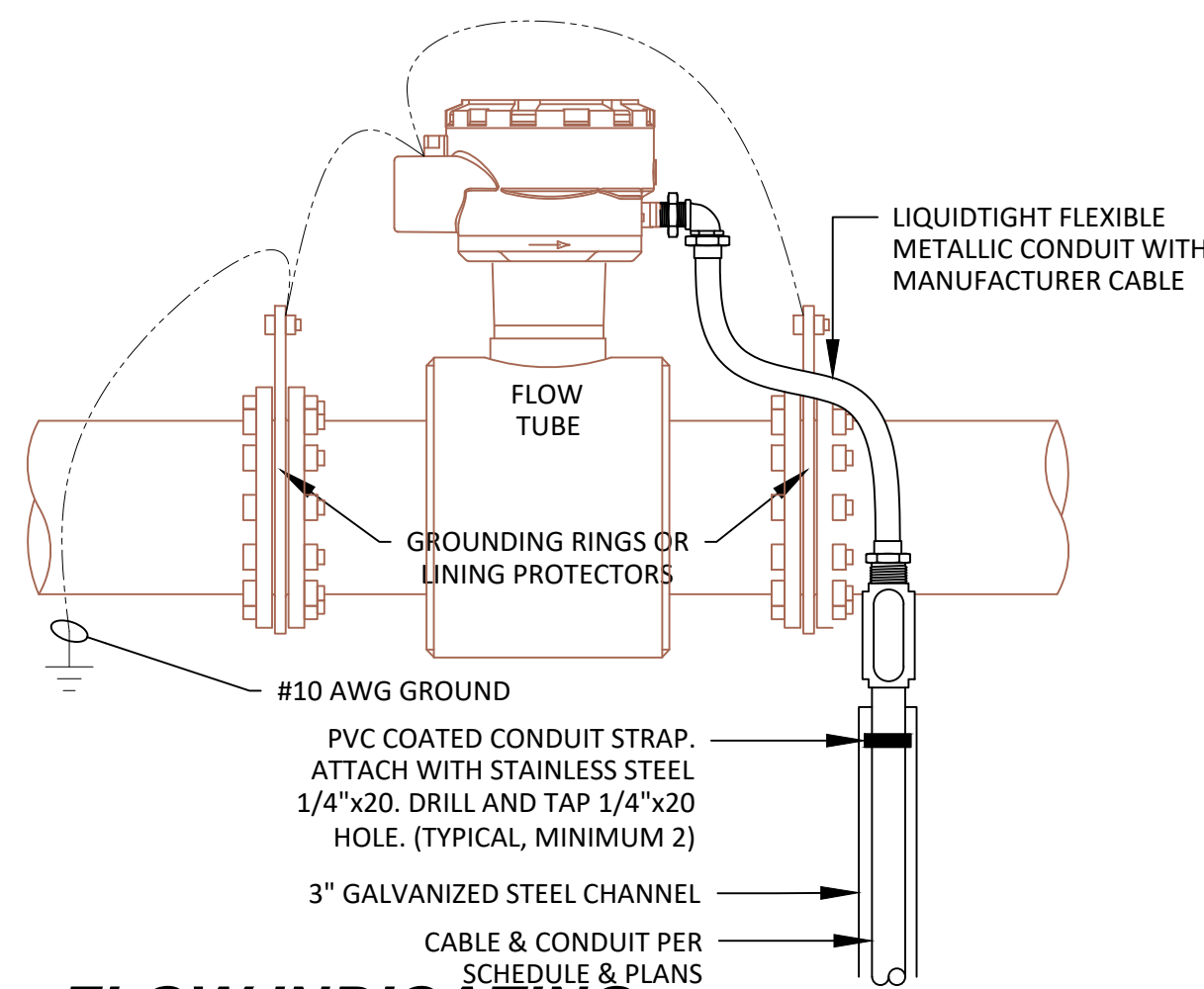
PRESSURE TRANSMITTER

MOUNT THE TRANSMITTER WITH THE ELECTRICAL HOUSING POSITIONED DOWNWARD.
INSTALL WIRING WITH DRIP LOOP POSITIONED LOWER THAN THE TRANSMITTER HOUSING OR CONDUIT CONNECTIONS.



HIGH PRESSURE SWITCH

MERCROID DAW SNAP ACTION



FLOW INDICATING TRANSMITTER

FIT

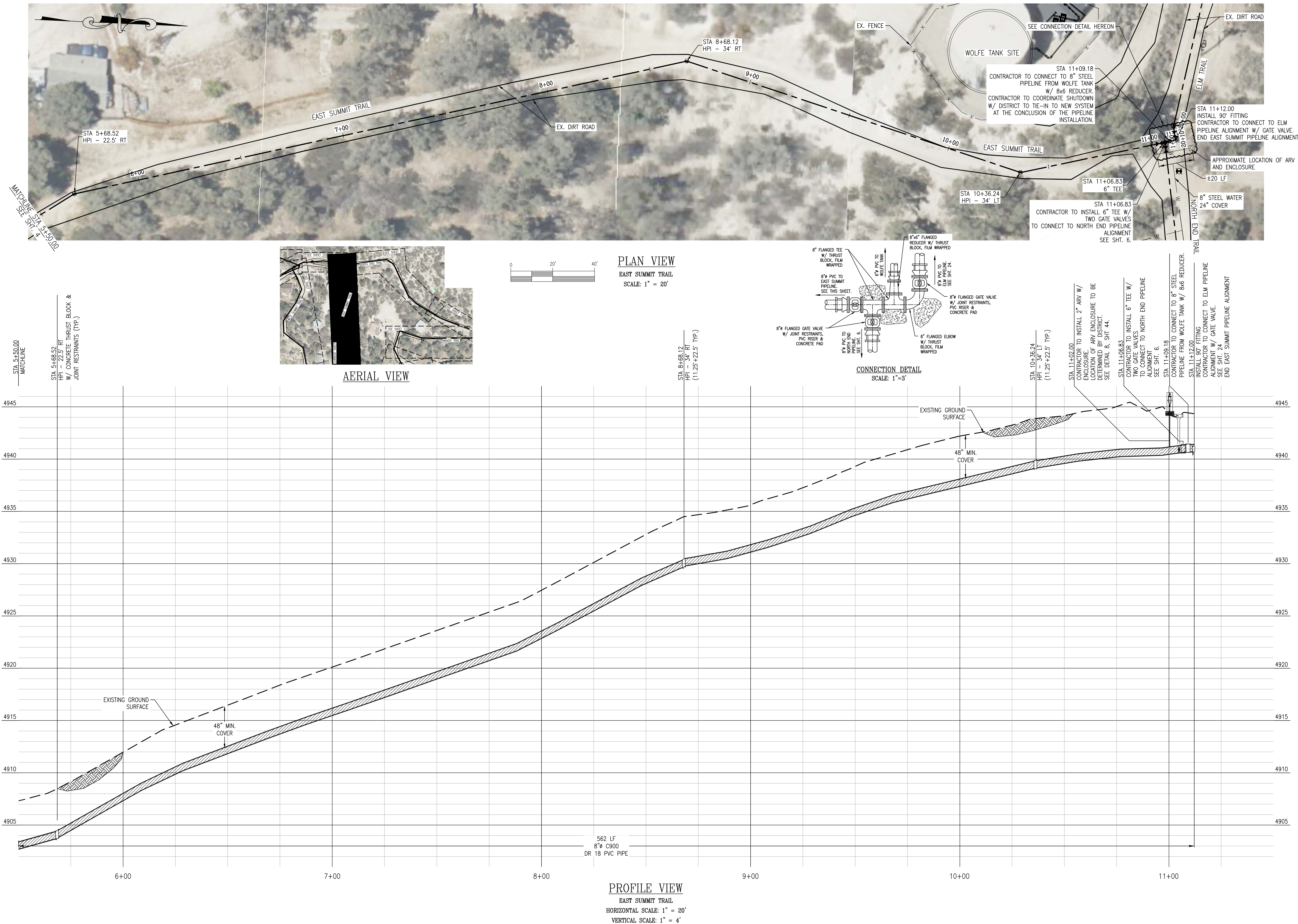
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ELECTRICAL ENGINEERING
3720 LINCOLN ROAD, SUITE 100
BAKERSFIELD, CALIFORNIA 93308
PHONE: 805-383-4799
FAX: 805-383-4798
PORTERVILLE, CALIFORNIA 93257

ELECTRICAL DETAILS
WATER SUPPLY AND WELL
EQUIPPING PROJECT
FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

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DRWN: CH	UPD: ---	JOE PREVENDAR P.E. CA EE 16581
FILE: E08-ELECTRICAL DETAILS	PLOT: 9/23/2025 3:28 PM	ABDUR REHMAN P.E. CA EE 22090
		abdur@epsfresno.com
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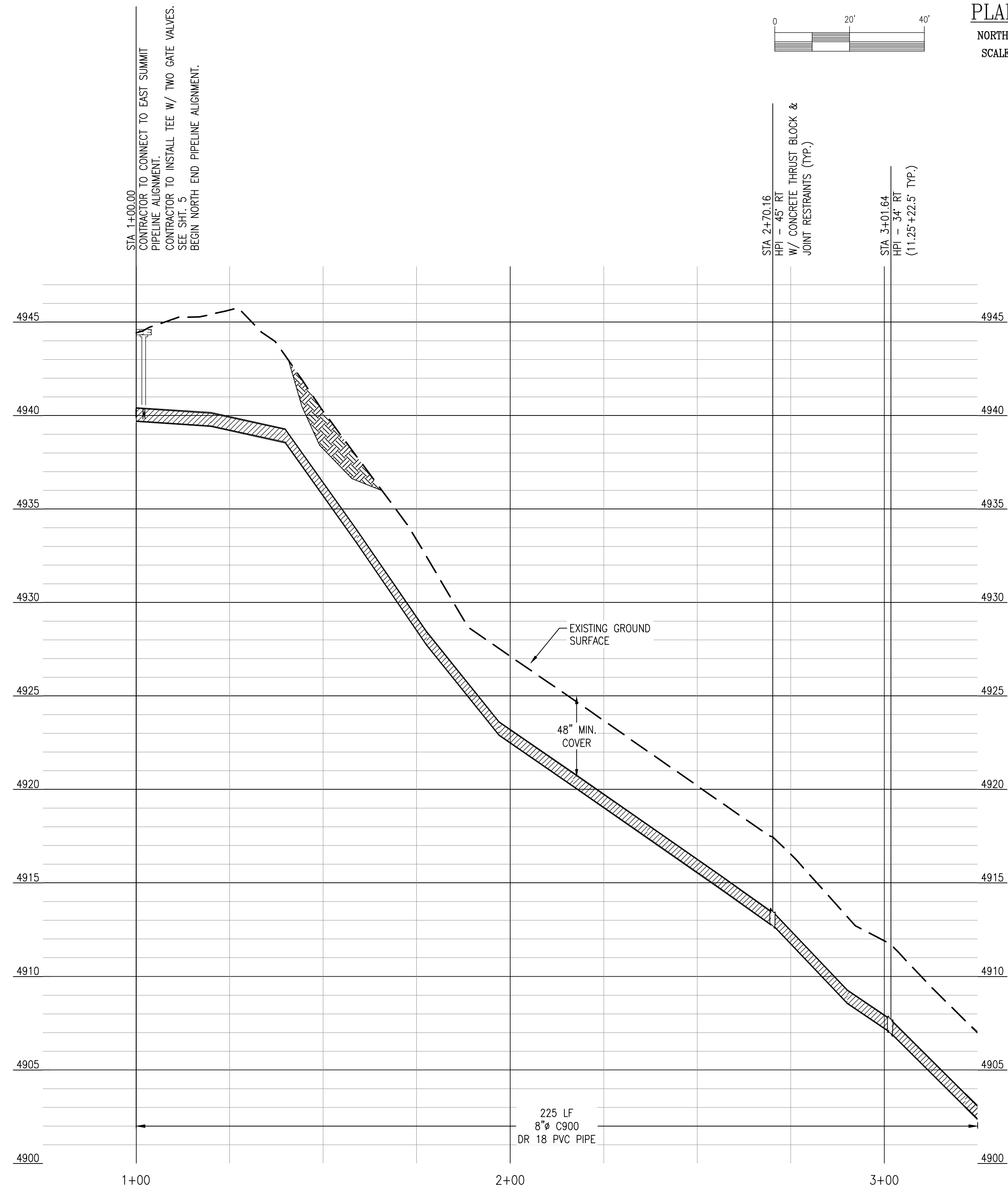
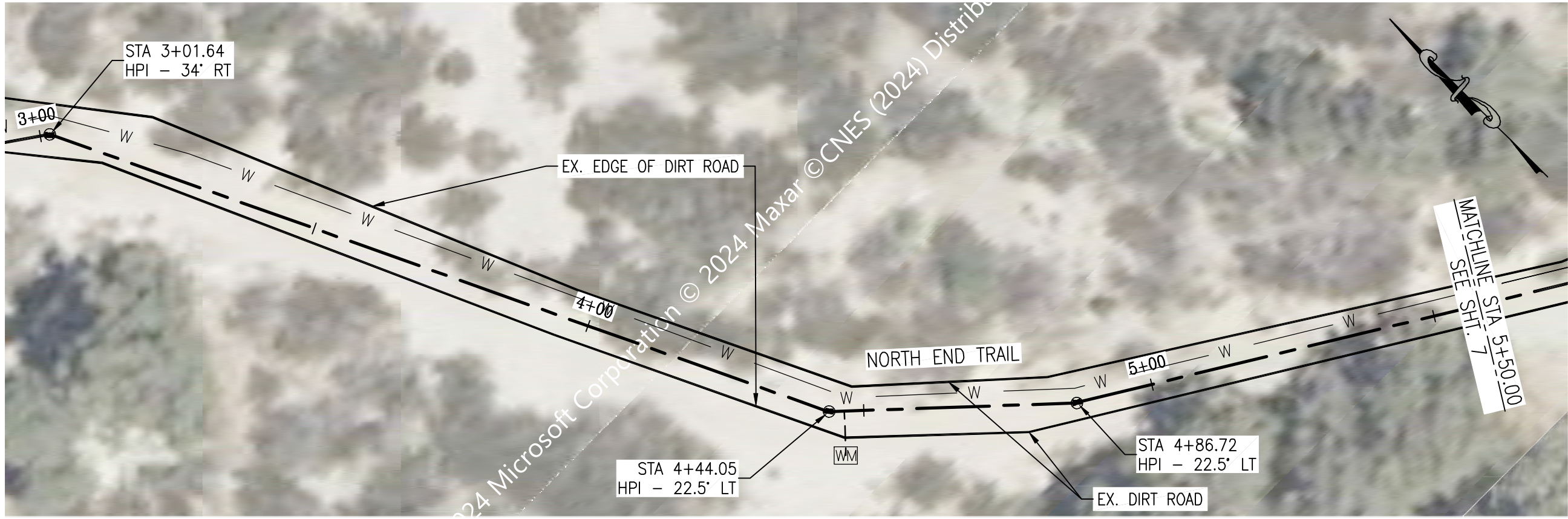
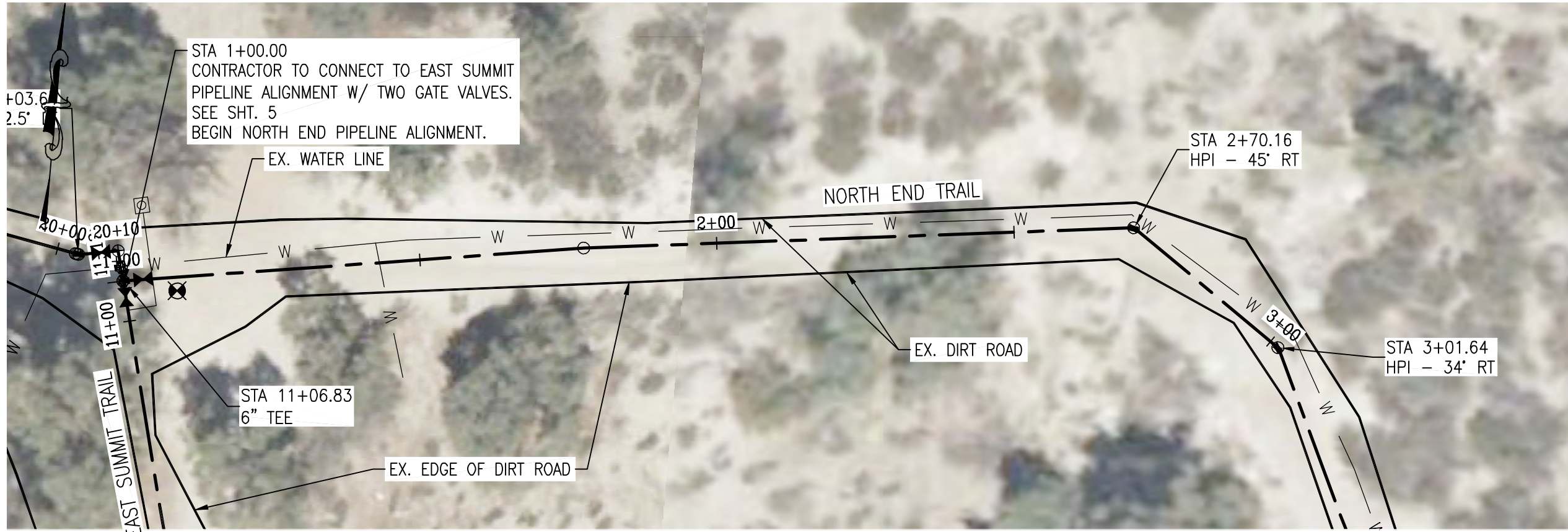
DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
10000 DEER CREEK ROAD, SUITE 100
PORTLAND, OREGON 97228
PHONE: 503-251-4299
FAX: 503-251-4298

EAST SUMMIT - PLAN & PROFILE

PIPELINE REPLACEMENT PROJECT

FRAZIER PARK PUBLIC UTILITIES DISTRICT
KERN COUNTY, CALIFORNIA

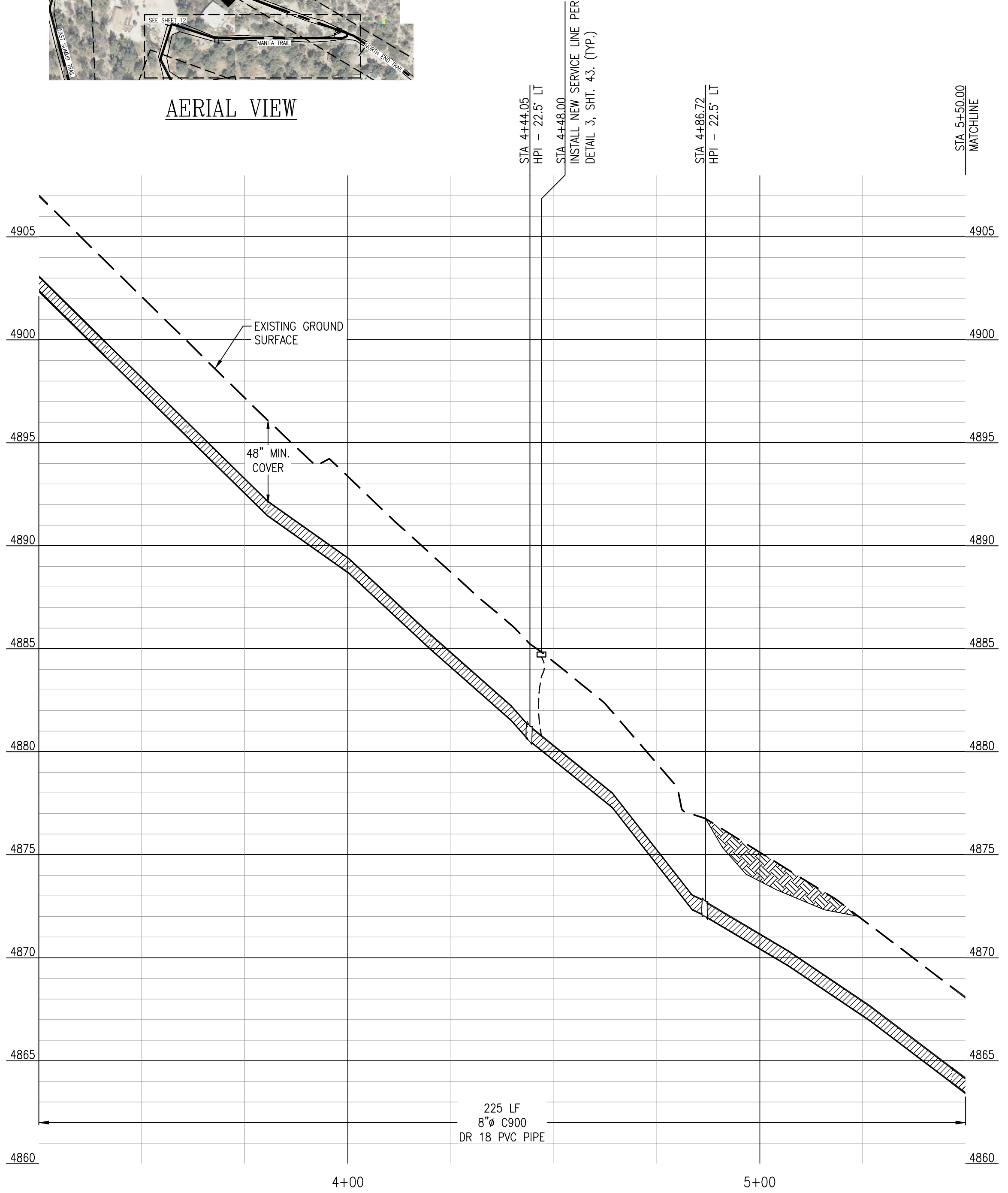
DRAWN CMM
CHECKED CMS
DATE AUG2023
SCALE AS SHOWN
JOB NO.
SHEET 5
OF 46 SHEETS



PLAN VIEW
NORTH END TRAIL
SCALE: 1" = 20'



AERIAL VIEW



PROFILE VIEW
NORTH END TRAIL
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'

REV.	DATE	DESCRIPTION	BY
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DEE JASPAS & ASSOCIATES, INC.

CIVIL ENGINEERS

2720 LINDEN ROAD, SUITE 200

PORTERVILLE, CALIFORNIA 95257

PHONE 559-797-9299

FAX 559-797-9275

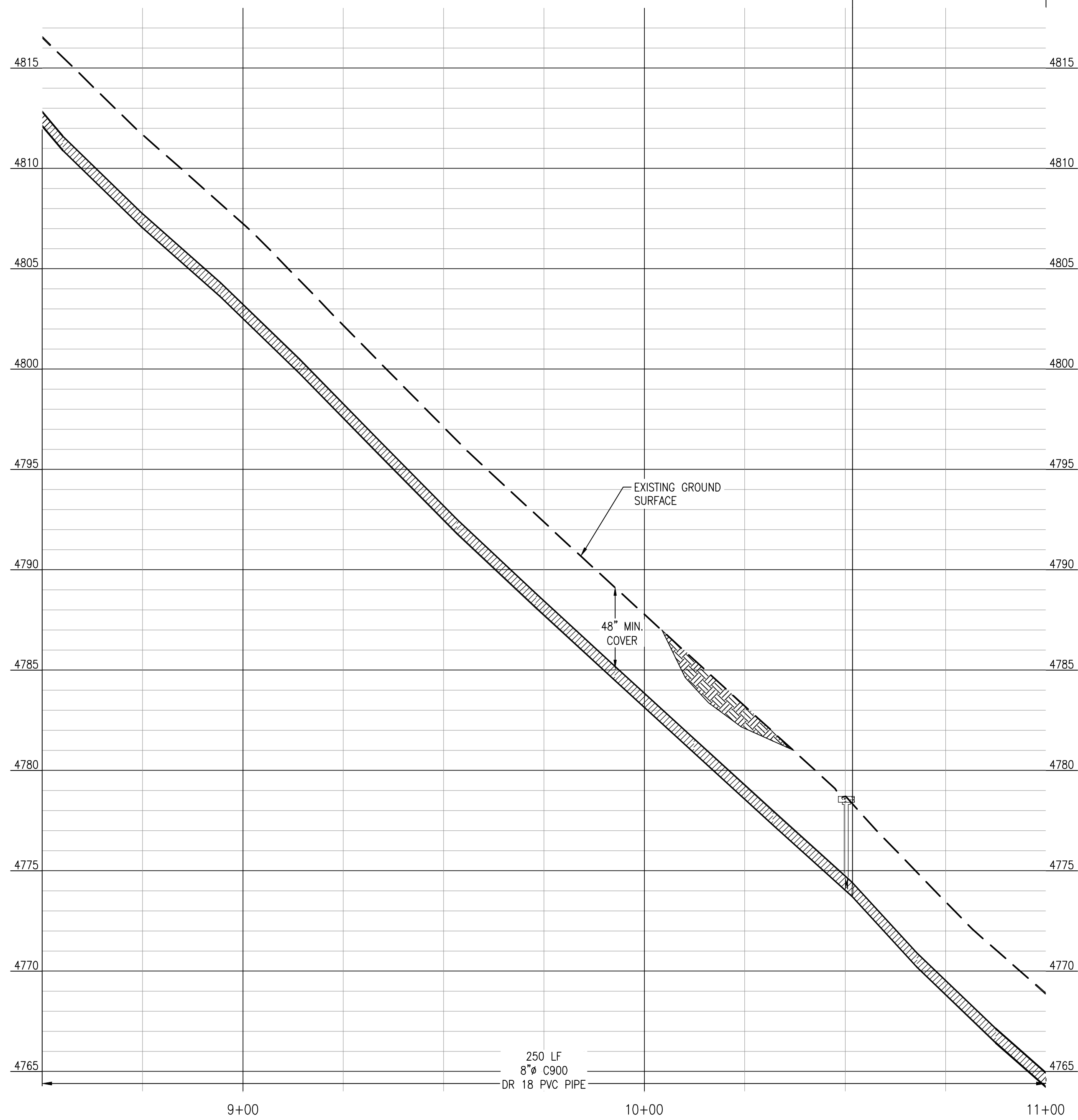
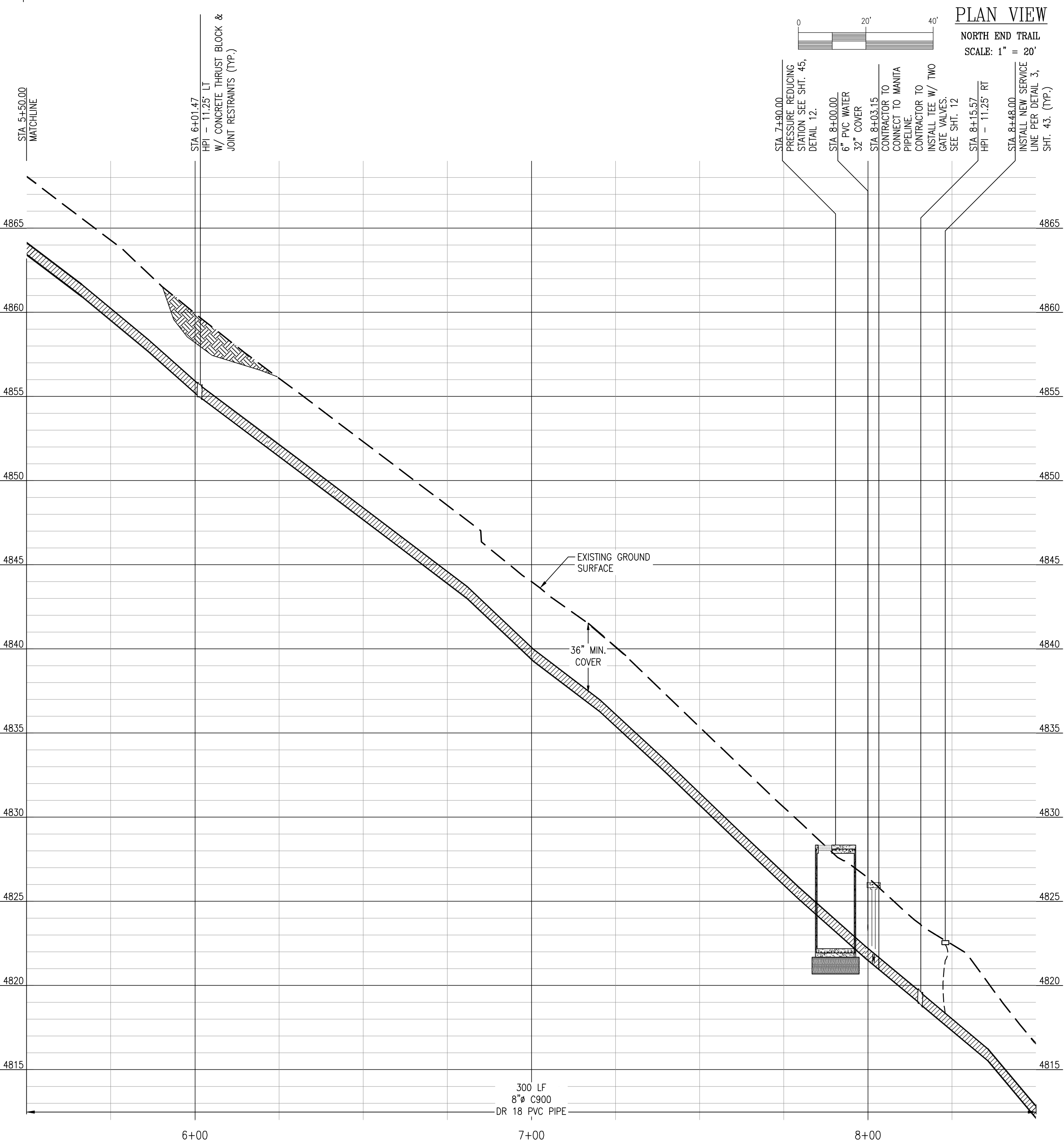
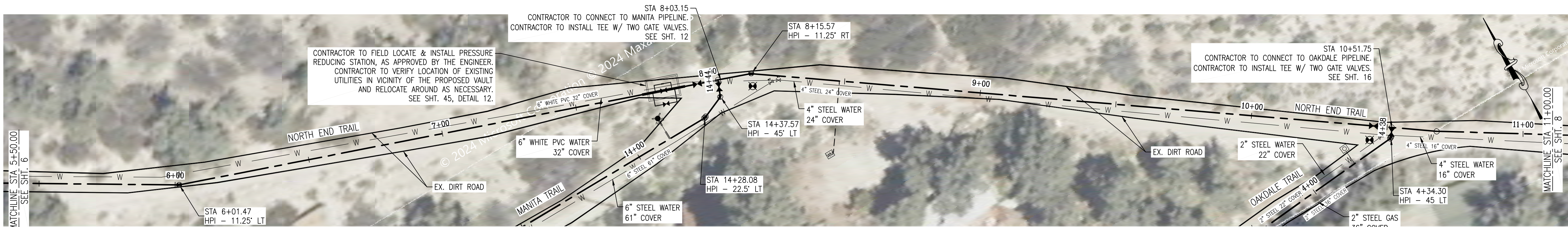
NORTH END - PLAN & PROFILE

PIPELINE REPLACEMENT PROJECT

FRAZIER PARK PUBLIC UTILITY DISTRICT

KERN COUNTY, CALIFORNIA

DRAWN CMM
CHECKED CMS
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OF 46 SHEETS



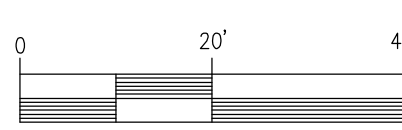
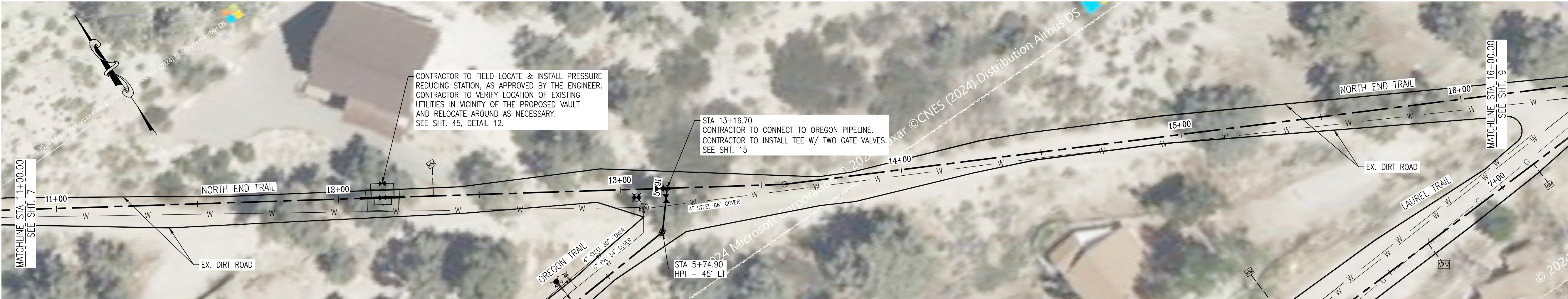
REV.	DATE	DESCRIPTION	BY
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DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
10000 E. 10TH AVE., SUITE 100
DENVER, CO 80231
PHONE: 303.733.4799
FAX: 303.733.4799

NORTH END - PLAN & PROFILE

PIPELINE REPLACEMENT PROJECT
FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

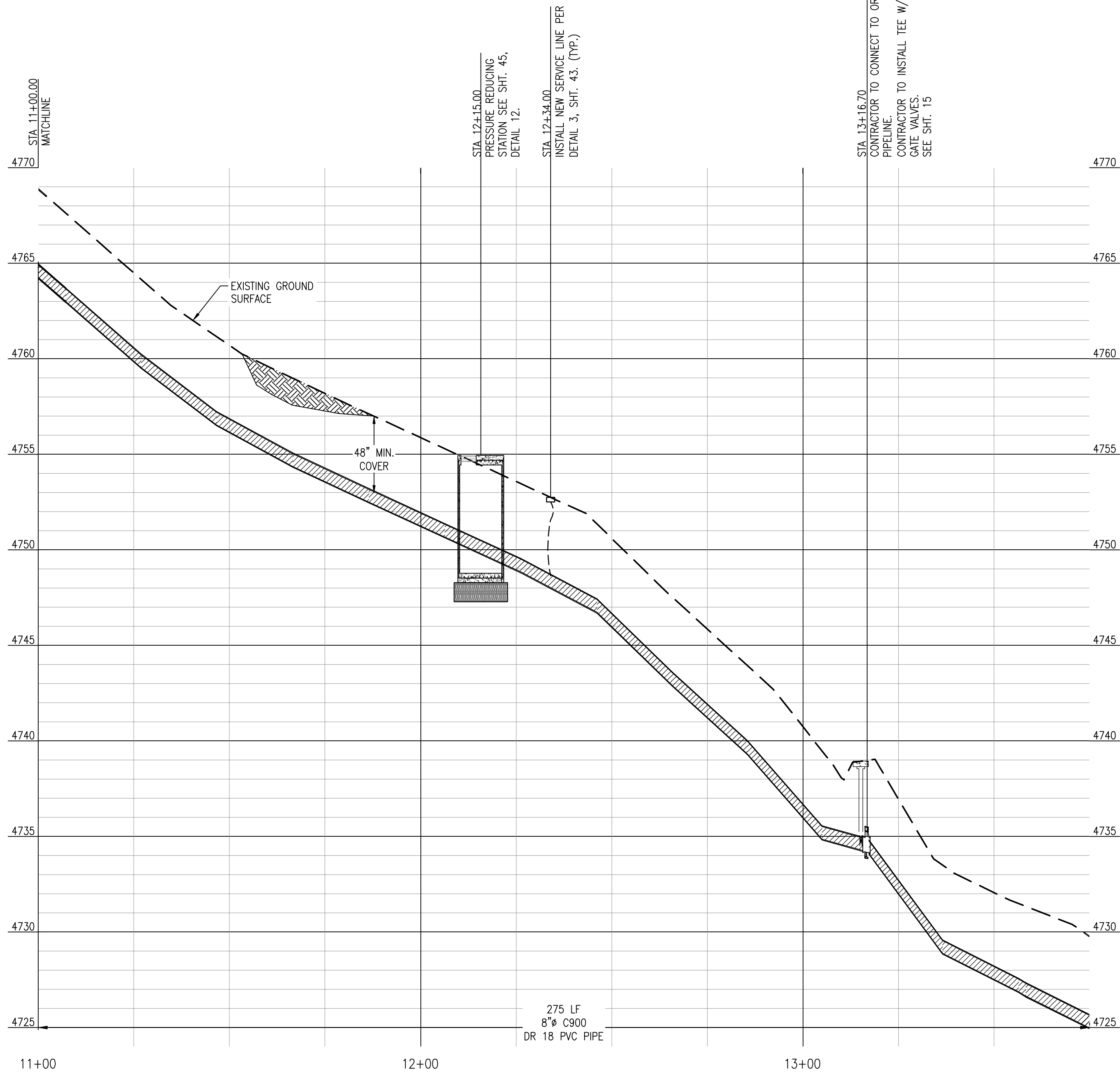
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DATE AUG2023
SCALE AS SHOWN
JOB NO.
SHEET 7
OF 46 SHEETS



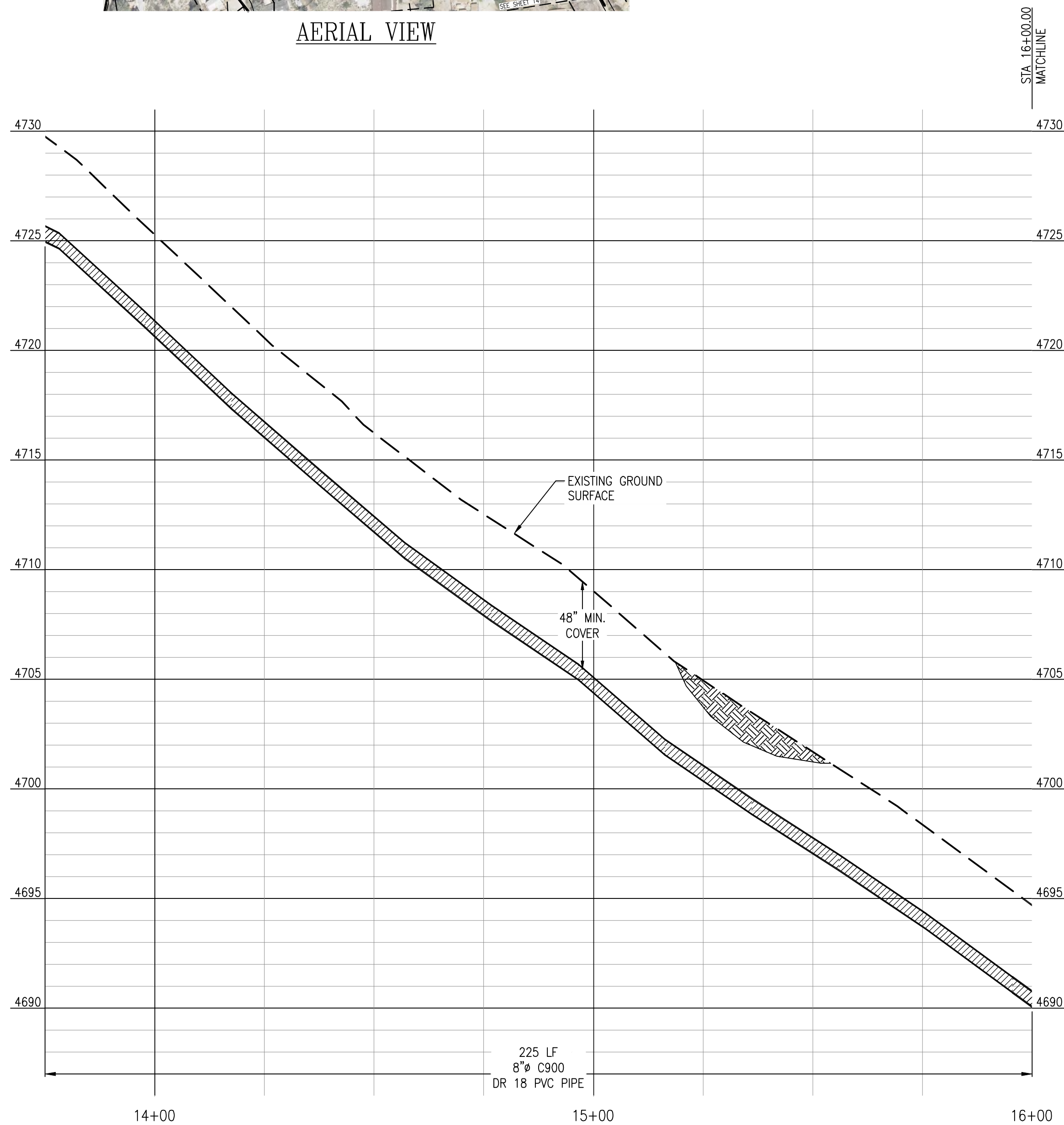
PLAN VIEW
NORTH END TRAIL
SCALE: 1" = 20'



AERIAL VIEW



PROFILE VIEW
NORTH END TRAIL
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'



REV.	DATE	DESCRIPTION	BY

DEE JASPAR & ASSOCIATES, INC.

CIVIL ENGINEERS

1000 N. MAIN STREET, 4B

PORTERVILLE, CALIFORNIA 93257

PHONE 559.791-9286

FAX 559.791-9275

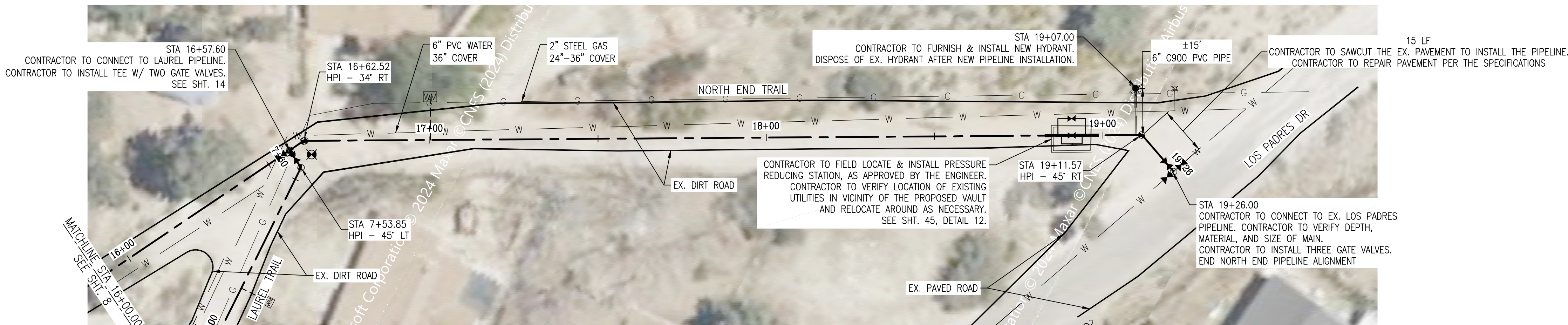
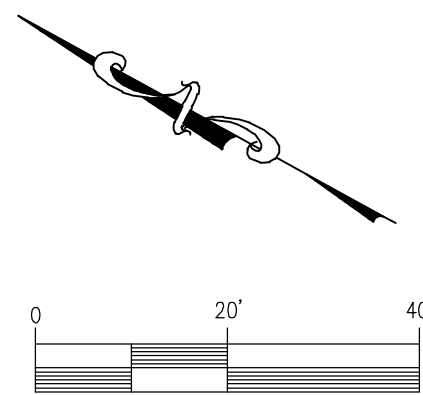
NORTH END - PLAN & PROFILE

PIPELINE REPLACEMENT PROJECT

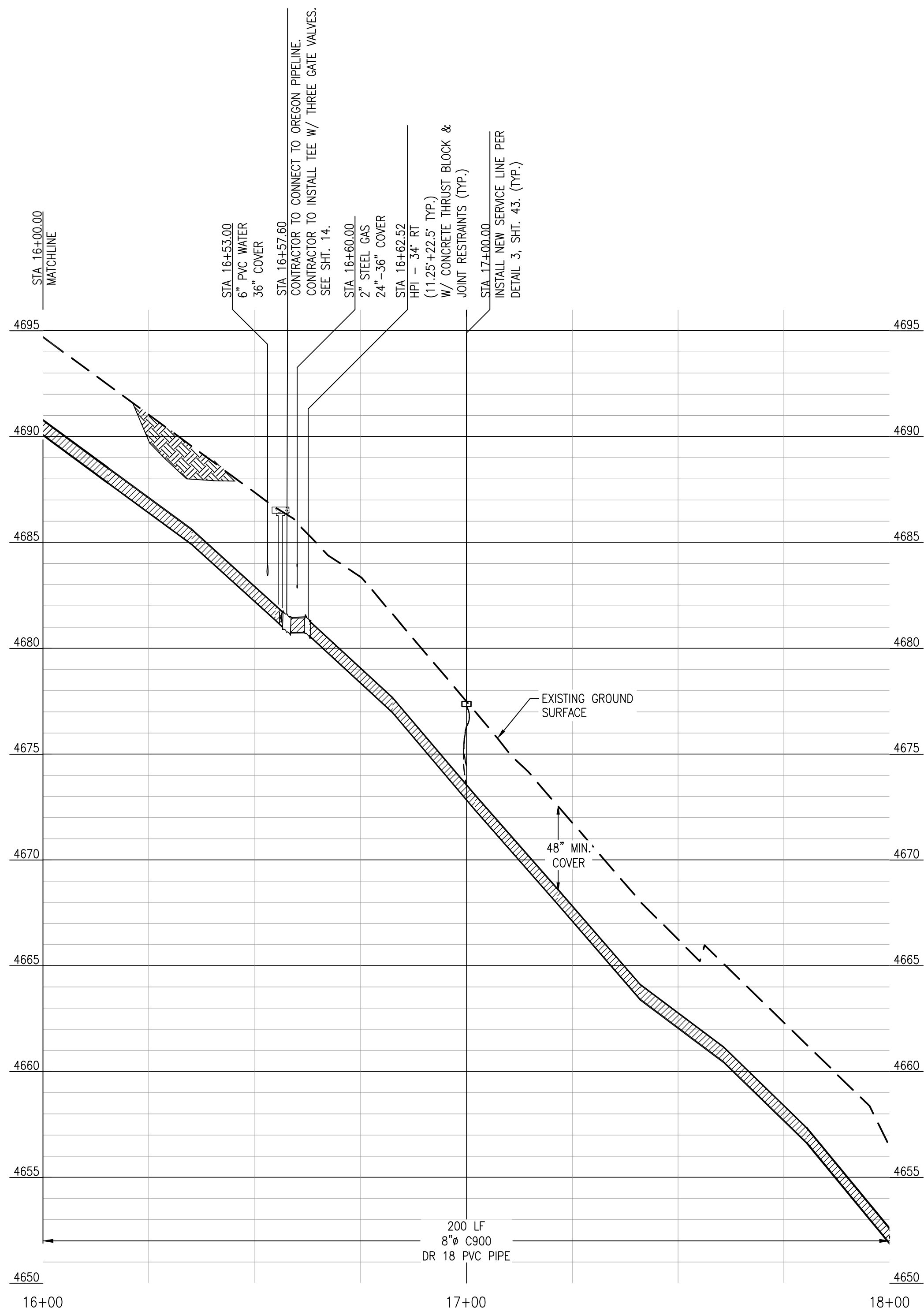
FRAZIER PARK PUBLIC UTILITY DISTRICT

KERN COUNTY, CALIFORNIA

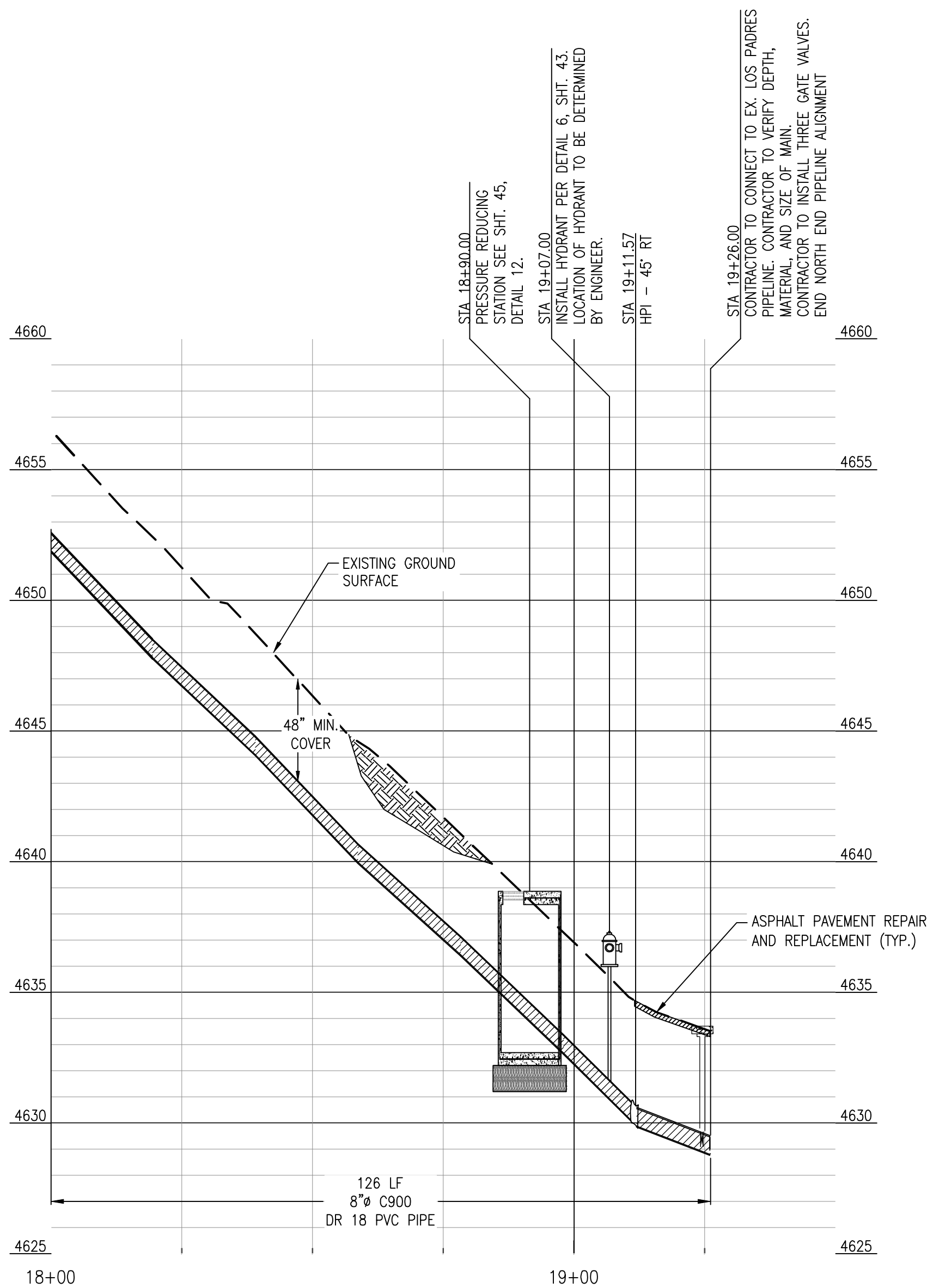
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CHECKED CMS
DATE AUG2023
SCALE AS SHOWN
JOB NO.
SHEET 8
OF 46 SHEETS



PLAN VIEW
NORTH END TRAIL
SCALE: 1" = 20'



PROFILE VIEW
NORTH END TRAIL
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'



AERIAL VIEW



NORTH END - PLAN & PROFILE

PIPELINE REPLACEMENT PROJECT

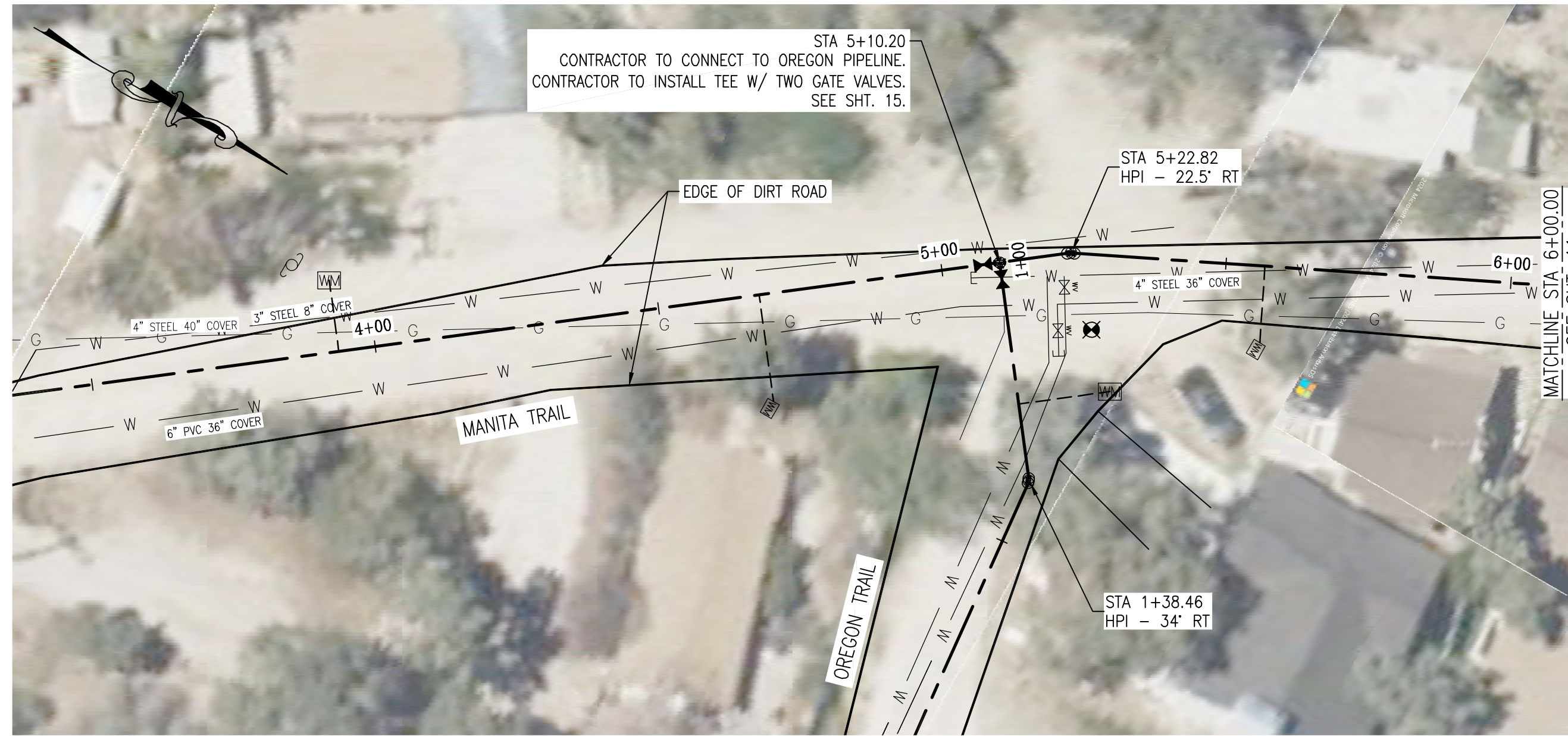
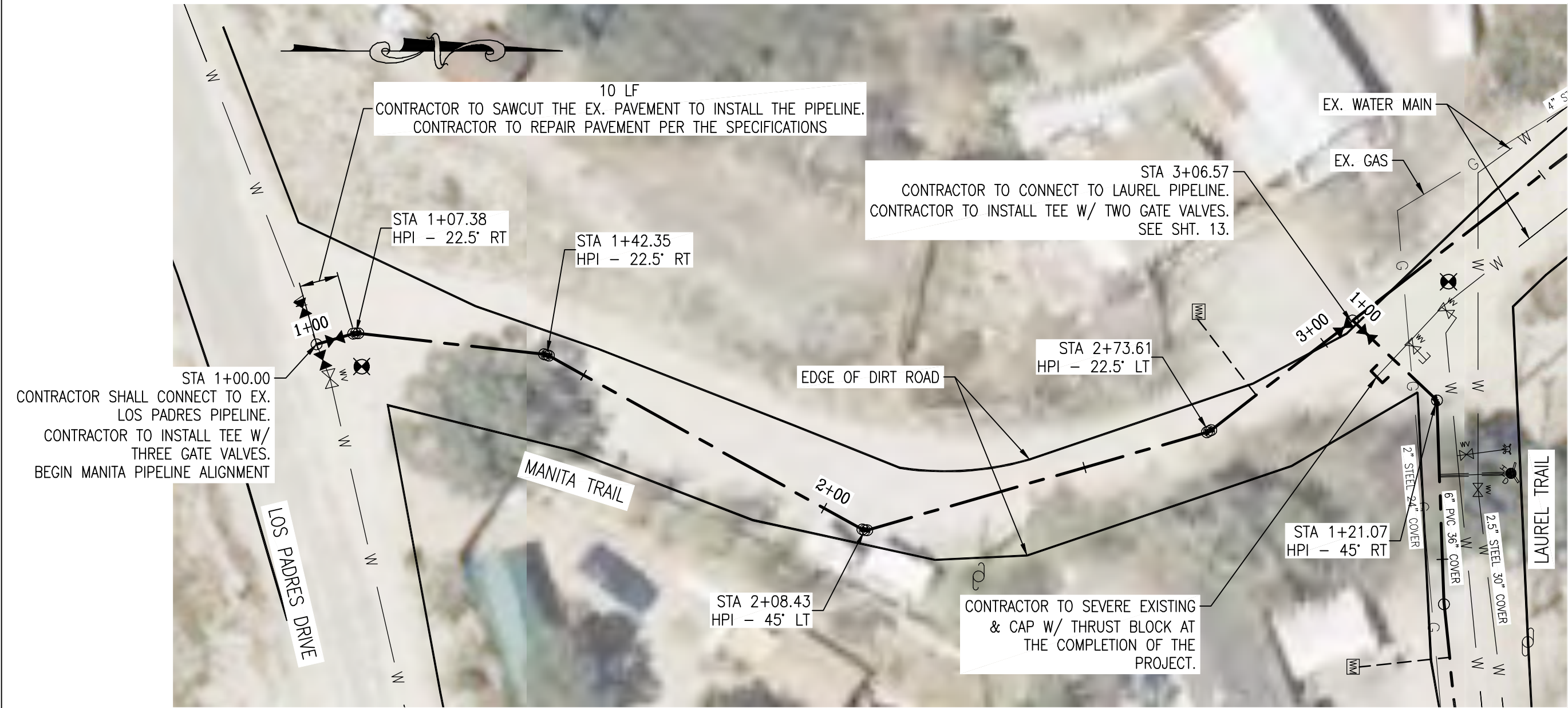
FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
2720 LINCOLN ROAD, SUITE A
PORTERVILLE, CALIFORNIA 93257
PHONE: 559-783-9286
FAX: 559-783-9275

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SCALE
AS SHOWN
JOB NO.

SHEET
9
OF 46 SHEETS

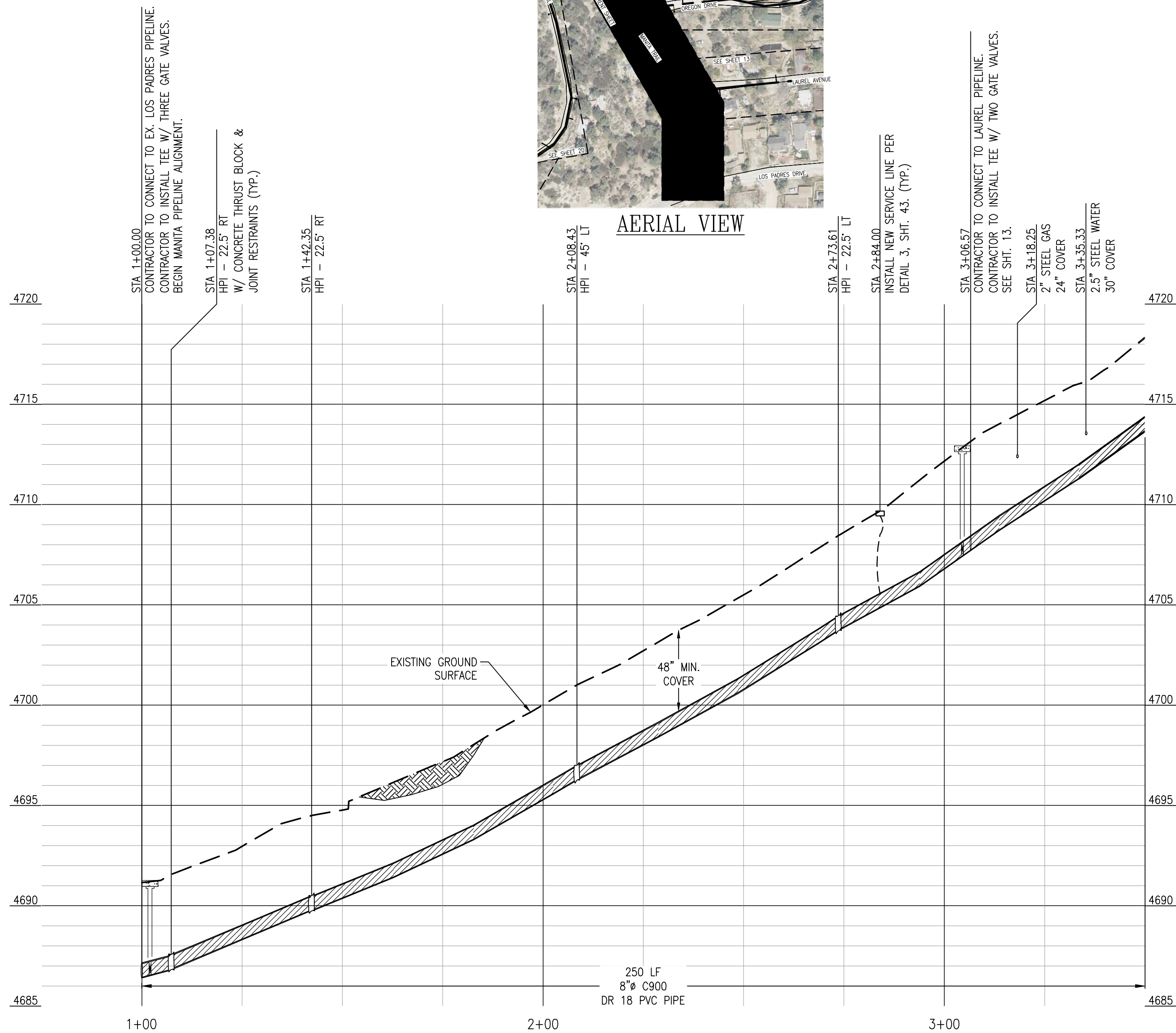
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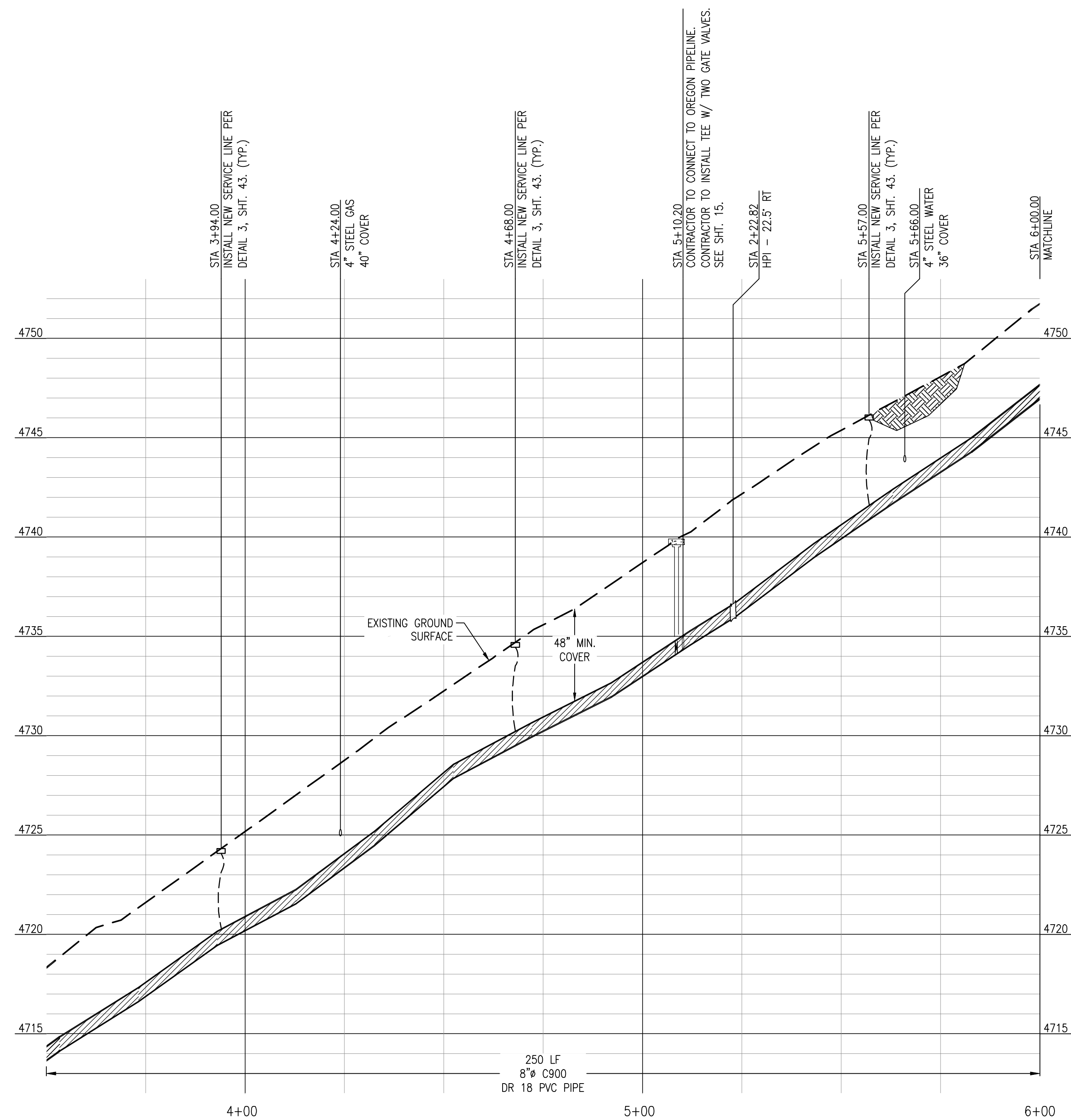
PLAN VIEW
MANITA TRAIL
SCALE: 1" = 20'



AERIAL VIEW



PROFILE VIEW
MANITA TRAIL
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'



REV.	DATE	DESCRIPTION	BY

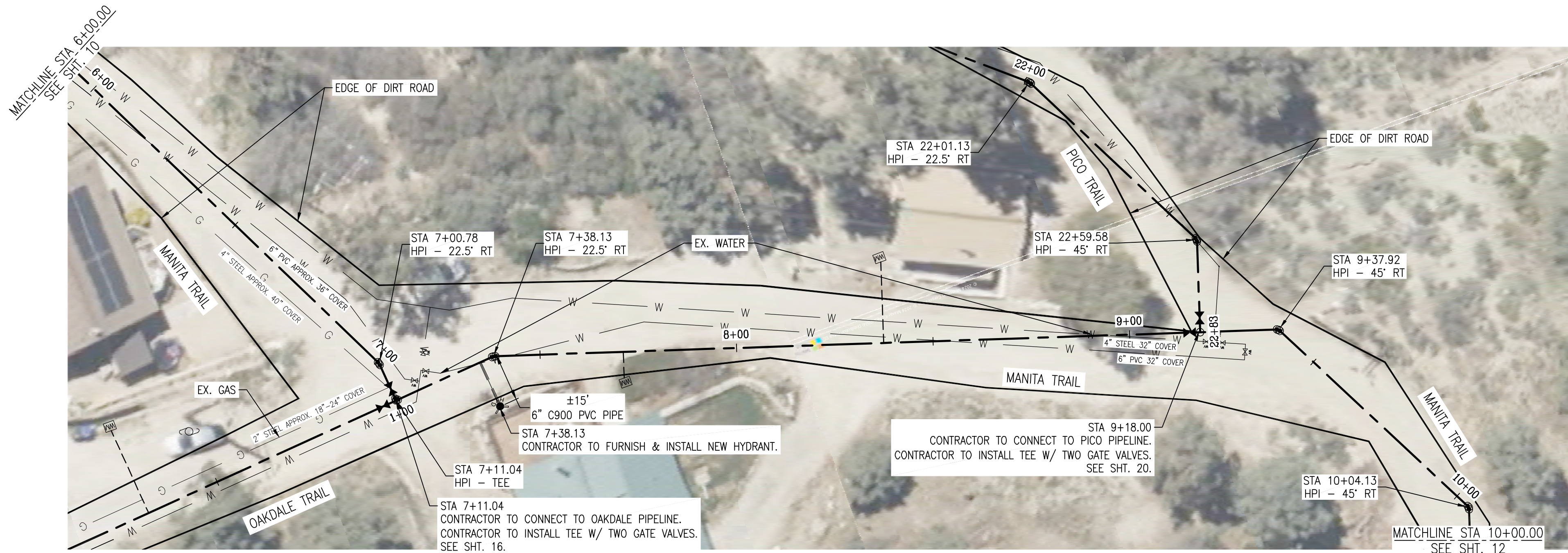
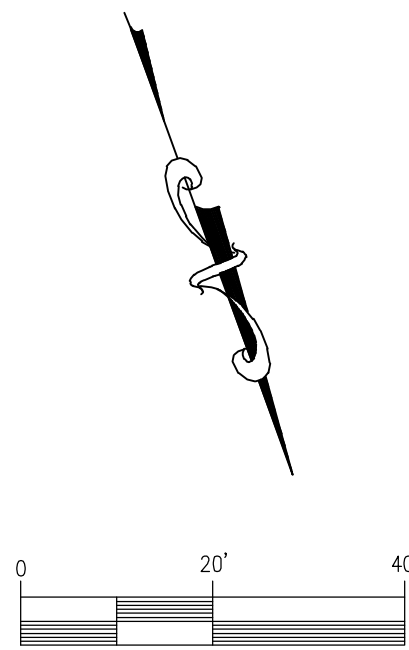
DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
1000 N. MAIN STREET, 4TH FLOOR
PUNTA GORDA, FL 33450
PHONE: 888-331-4299
FAX: 888-331-4299
PUNTA GORDA, FL 33450

MANITA - PLAN & PROFILE

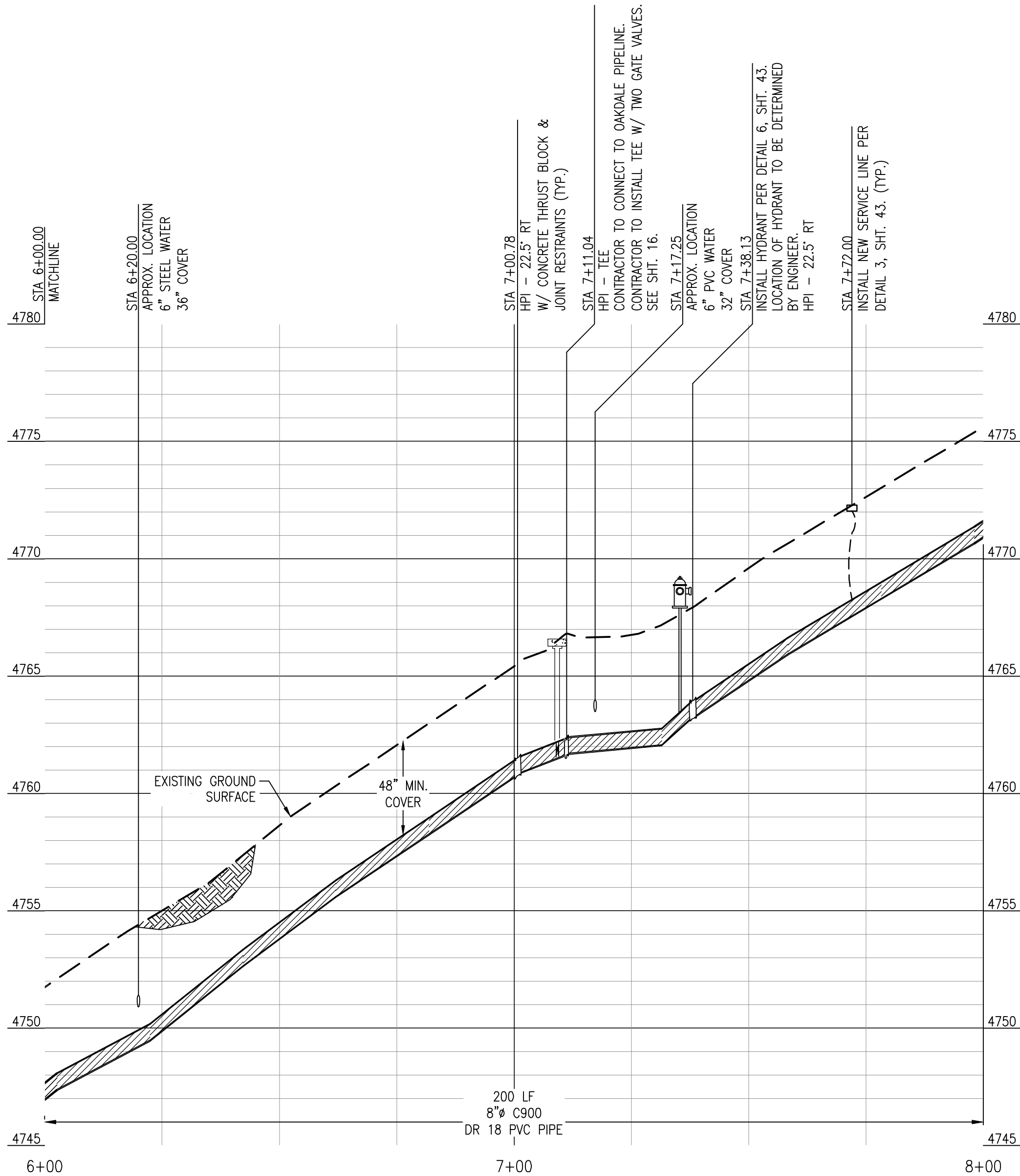
PIPELINE REPLACEMENT PROJECT

FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

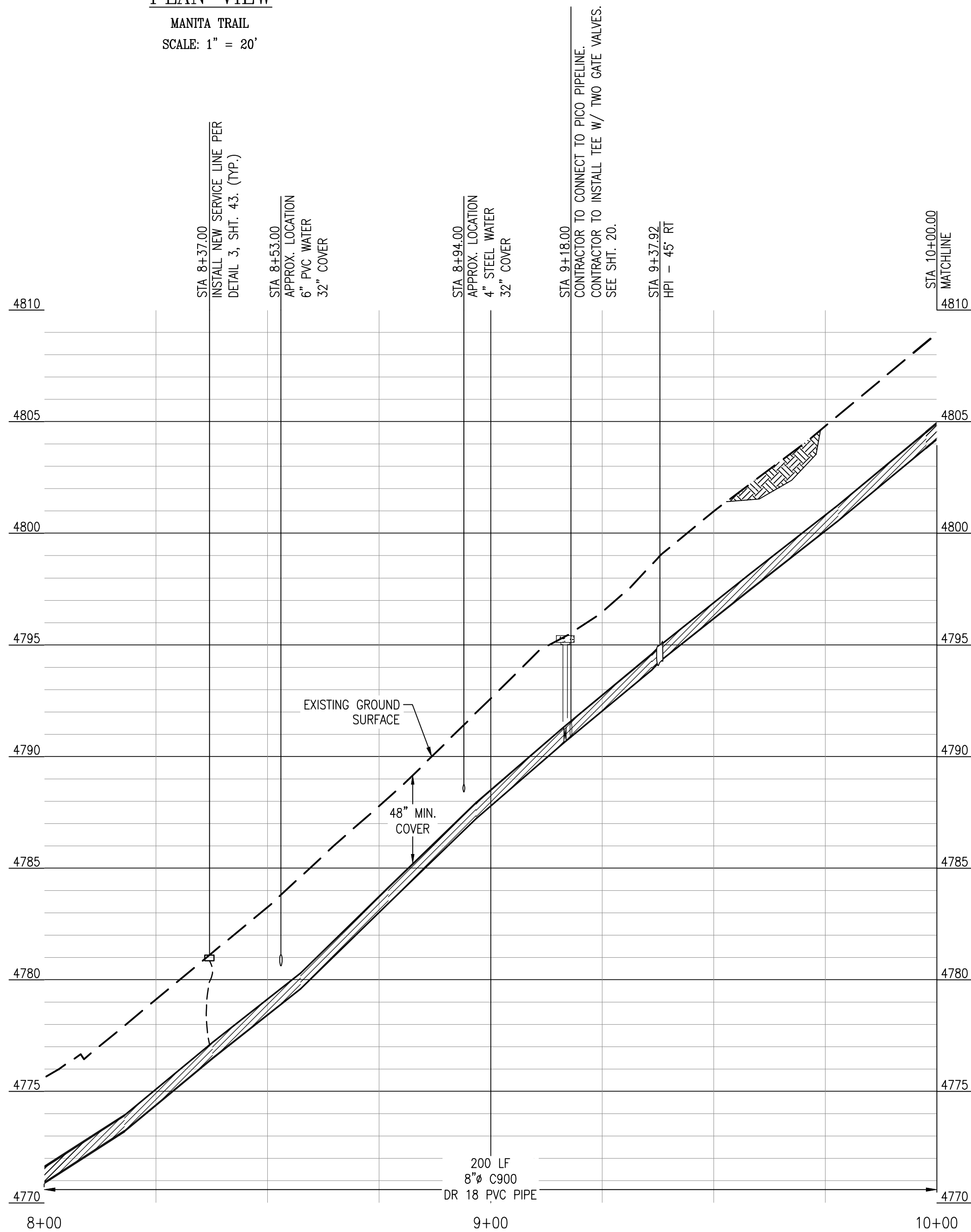
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CHECKED CMS
DATE AUG2023
SCALE AS SHOWN
JOB NO.
SHEET 10
OF 46 SHEETS



PLAN VIEW
MANITA TRAIL
SCALE: 1" = 20'



PROFILE VIEW
MANITA TRAIL
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'



AERIAL VIEW



MANITA - PLAN & PROFILE

PIPELINE REPLACEMENT PROJECT

FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

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AUG2023
SCALE
AS SHOWN
JOB NO.

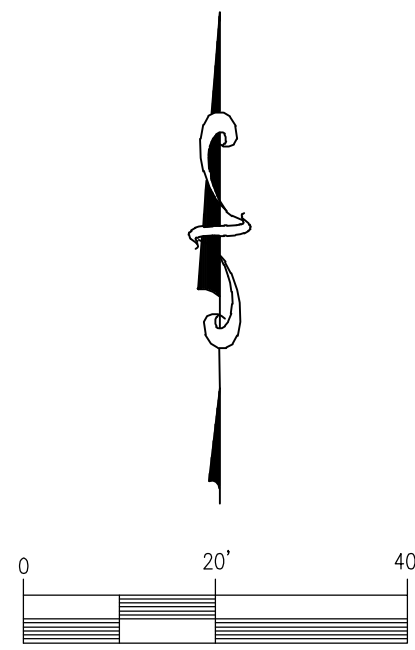
SHEET

11

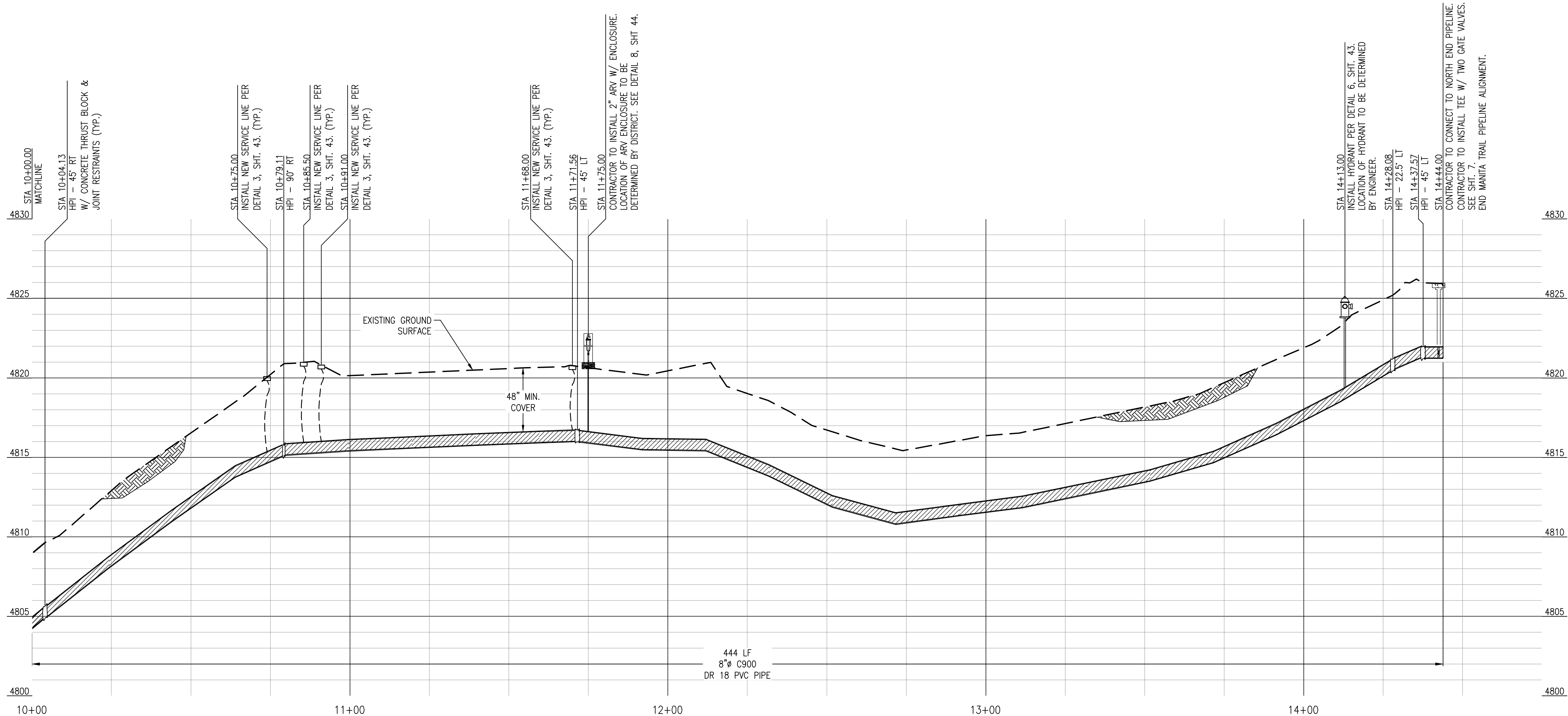
OF 46 SHEETS

DEE JASPAR & ASSOCIATES, INC.
2720 UNION ROAD, SUITE 100
BAKERSFIELD, CALIFORNIA 93308
PHONE: 805-333-4798
FAX: 805-333-4799
PORTERVILLE, CALIFORNIA 93257
PHONE: 559-783-9275
FAX: 559-783-9275

REV	DATE	DESCRIPTION	BY



PLAN VIEW
MANITA TRAIL
SCALE: 1" = 20'



PROFILE VIEW
MANITA TRAIL
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'



AERIAL VIEW

MANITA - PLAN & PROFILE

PIPELINE REPLACEMENT PROJECT

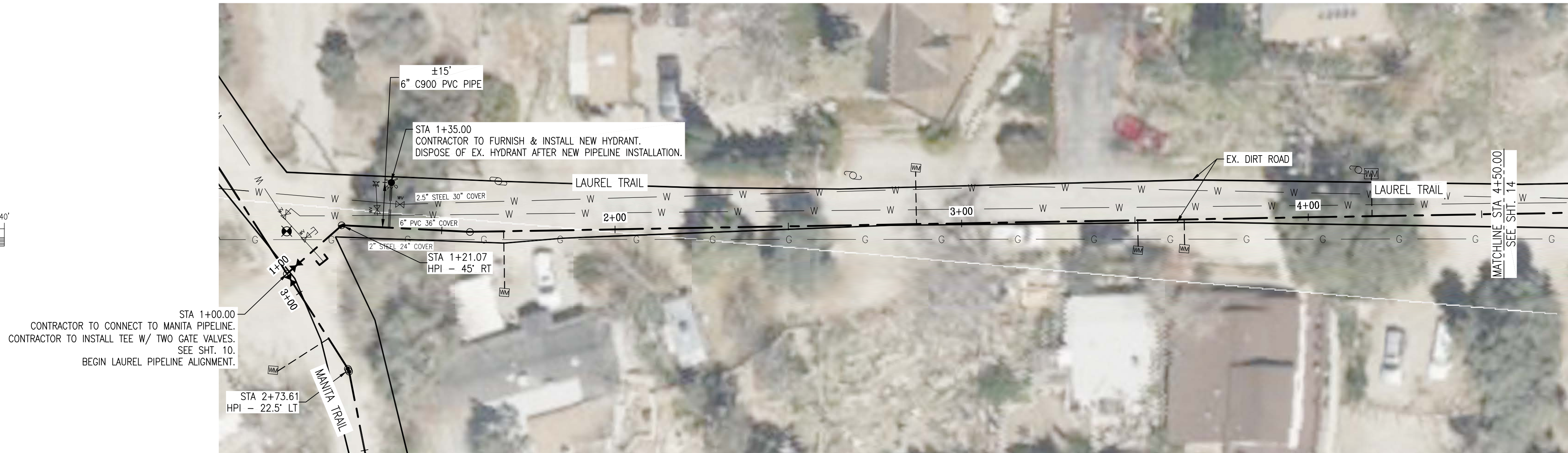
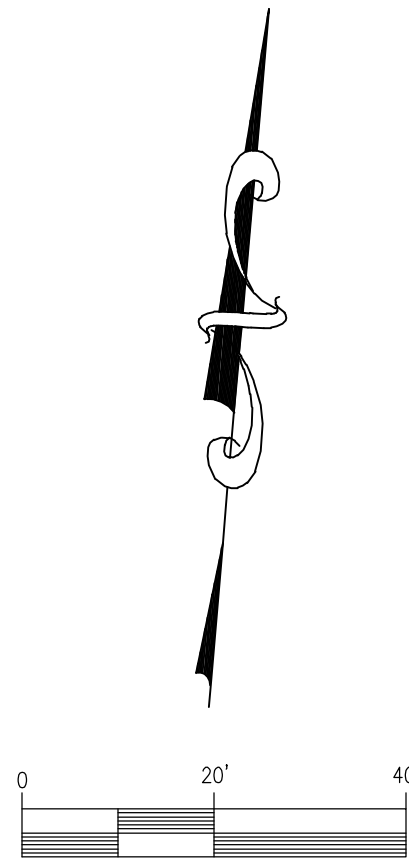
FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

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DATE
AUG2023
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AS SHOWN
JOB NO.

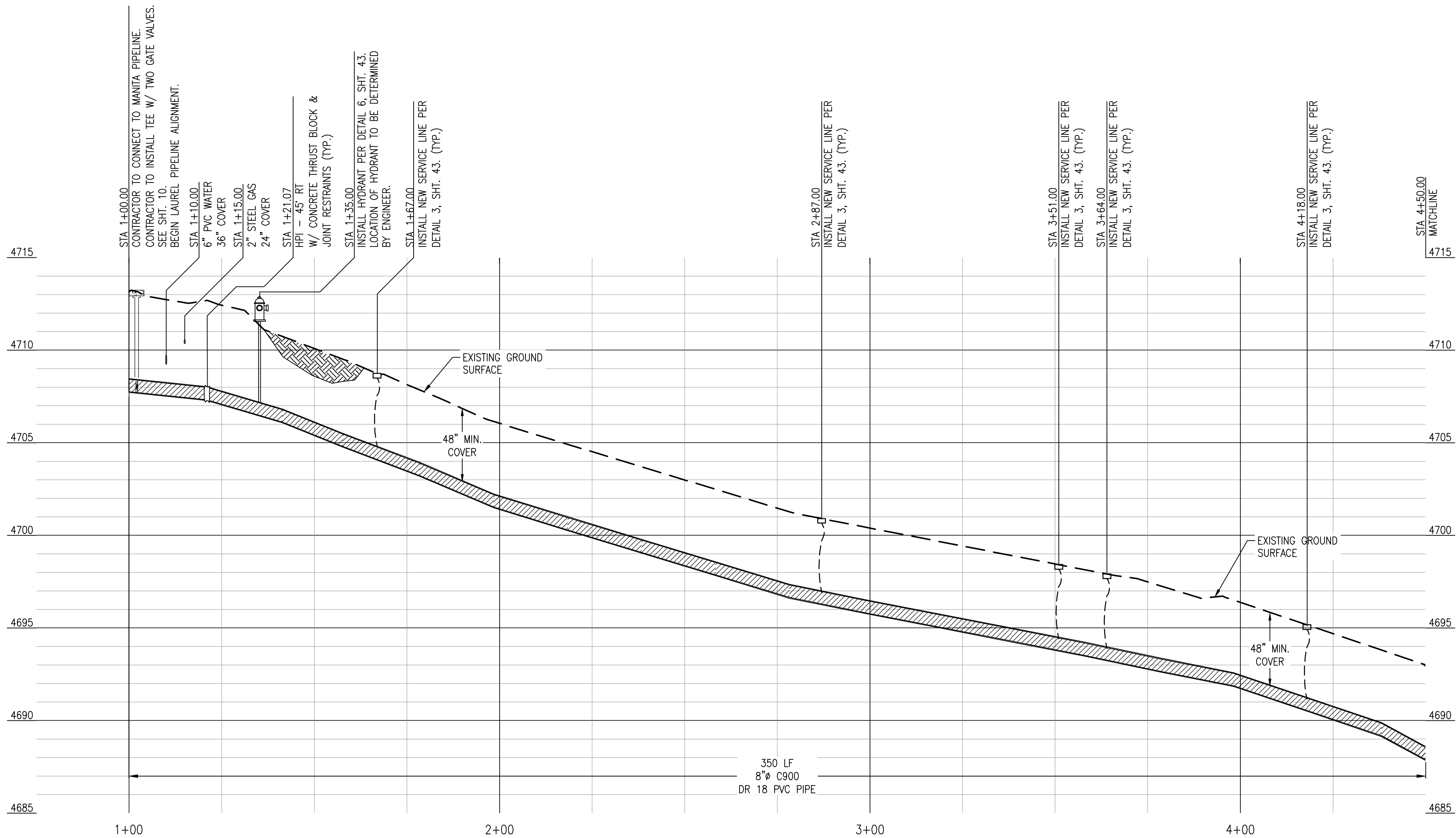
SHEET
12
OF 46 SHEETS

DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
2720 LINDSEY ROAD, SUITE 100
PORTERVILLE, CALIFORNIA 93257
PHONE 559-791-9286
FAX 559-791-9287

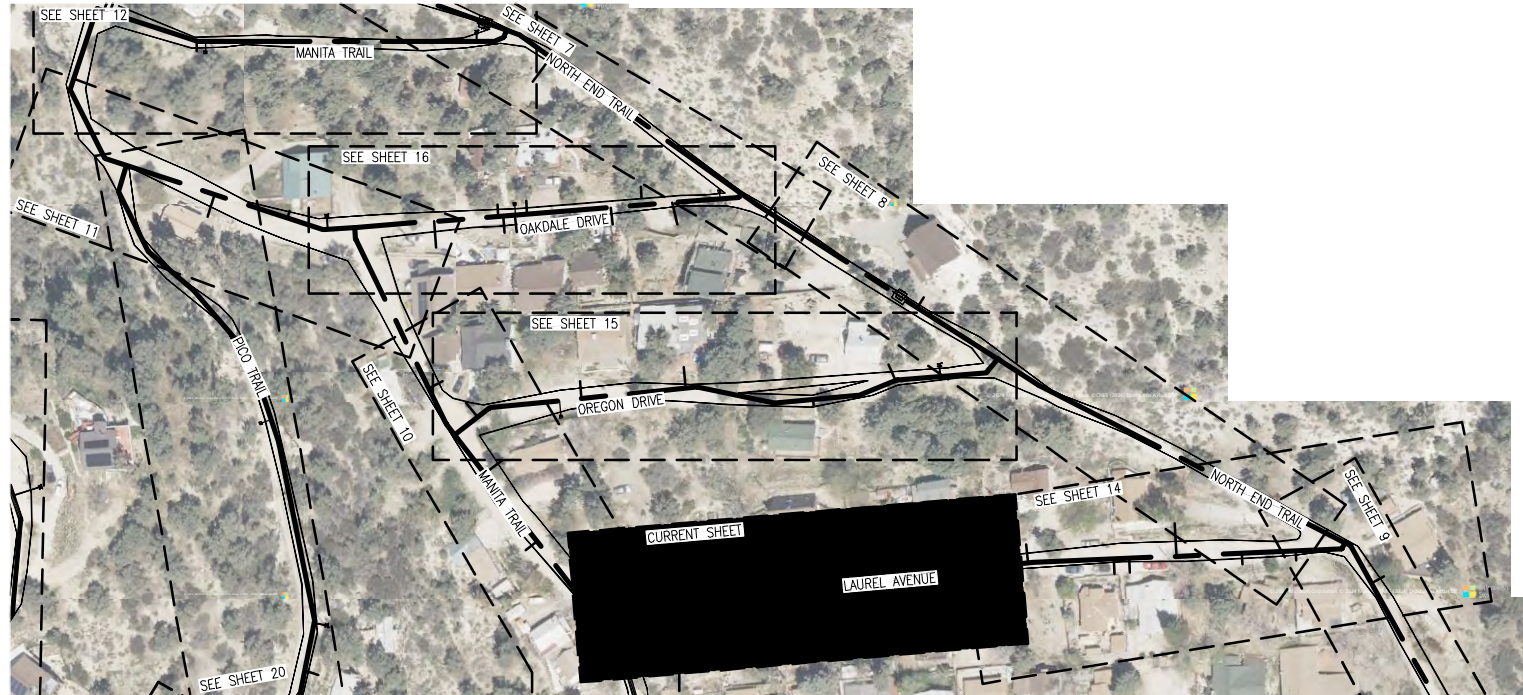
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PLAN VIEW
LAUREL TRAIL
SCALE: 1" = 20'



PROFILE VIEW
LAUREL TRAIL
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'



AERIAL VIEW

REV.	DATE	DESCRIPTION	BY
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DEE JASPAS & ASSOCIATES, INC.

CIVIL ENGINEERS

2720 UNION ROAD, BLDG. A

PORTERVILLE, CALIFORNIA 93257

PHONE 559-791-9286

FAX 559-782-9275

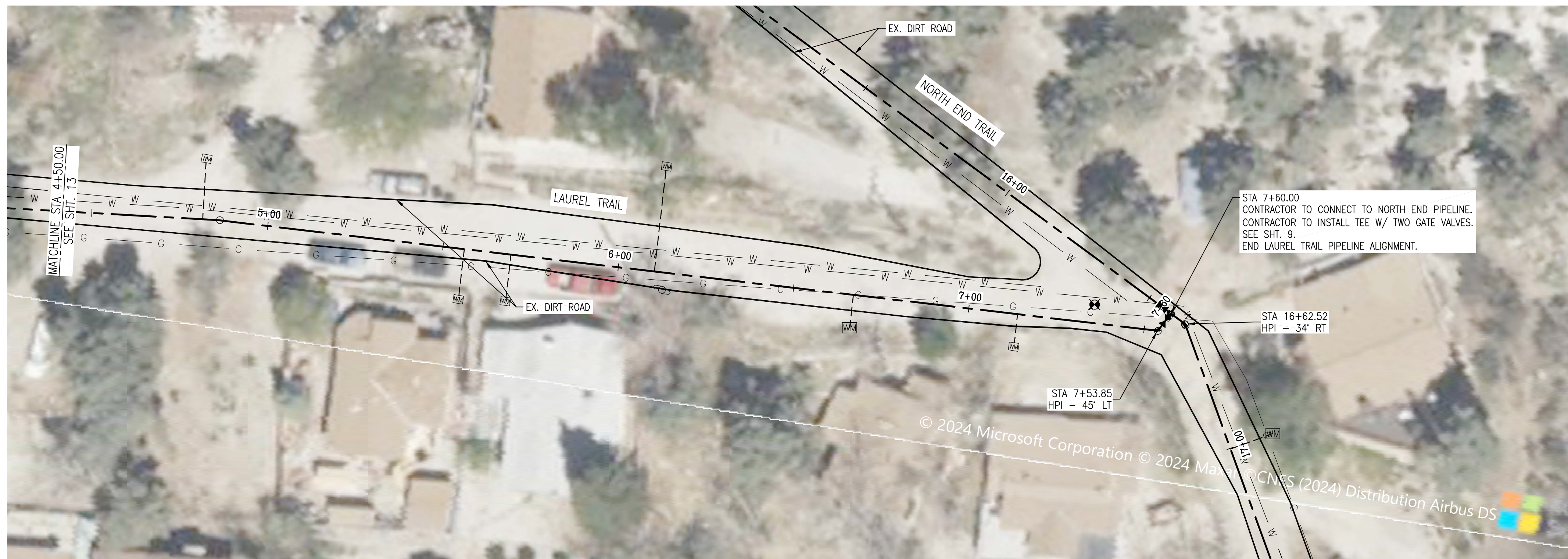
LAUREL - PLAN & PROFILE

PIPELINE REPLACEMENT PROJECT

FRAZIER PARK PUBLIC UTILITY DISTRICT

KERN COUNTY, CALIFORNIA

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DATE AUG2023
SCALE AS SHOWN
JOB NO.
SHEET 13
OF 46 SHEETS

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LAUREL - PLAN & PROFILE

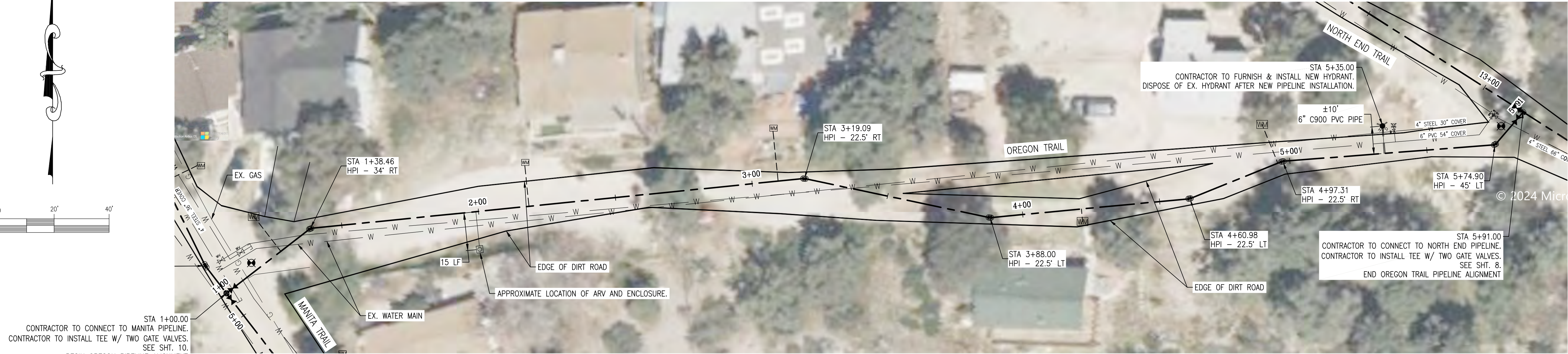
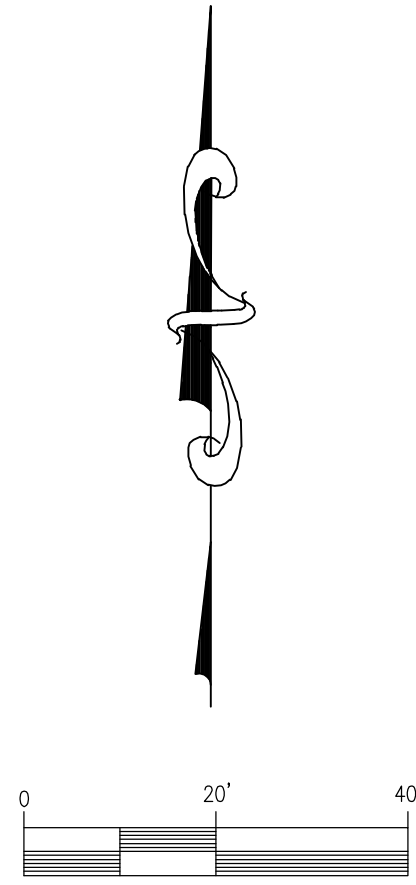
PIPELINE REPLACEMENT PROJECT

FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

SHEET

14

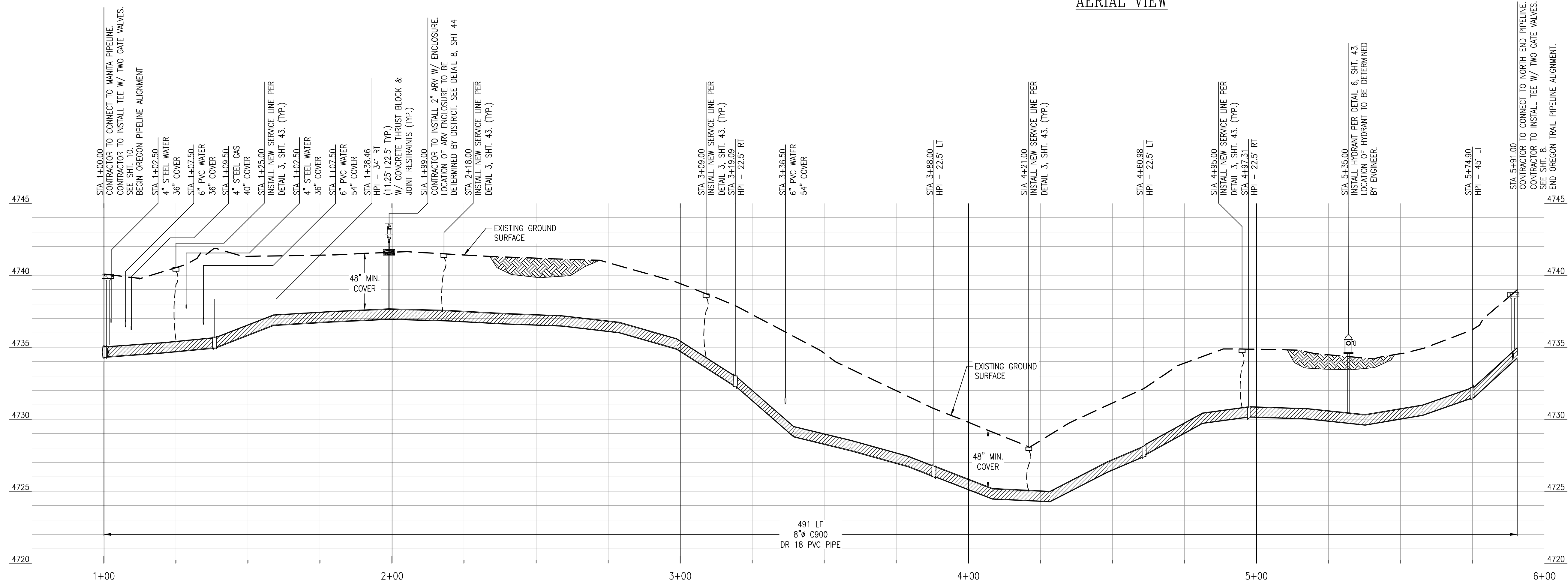
OF 46 SHEETS



PLAN VIEW
OREGON TRAIL
SCALE: 1" = 20'



AERIAL VIEW



PROFILE VIEW
OREGON TRAIL
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'

REV.	DATE	DESCRIPTION	BY

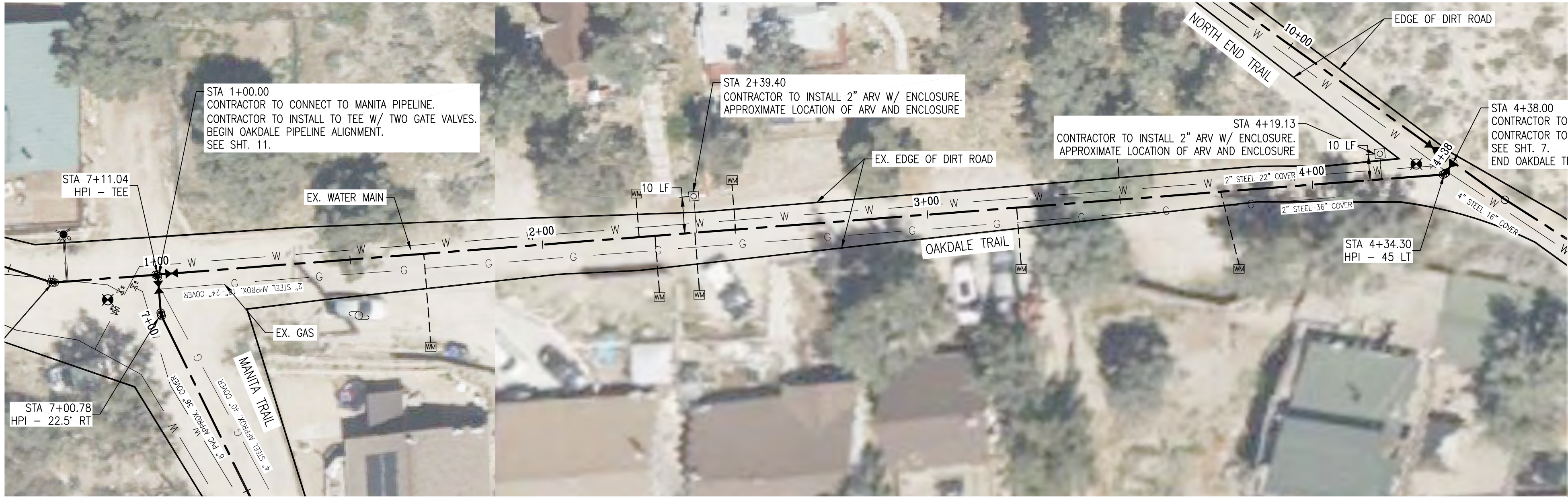
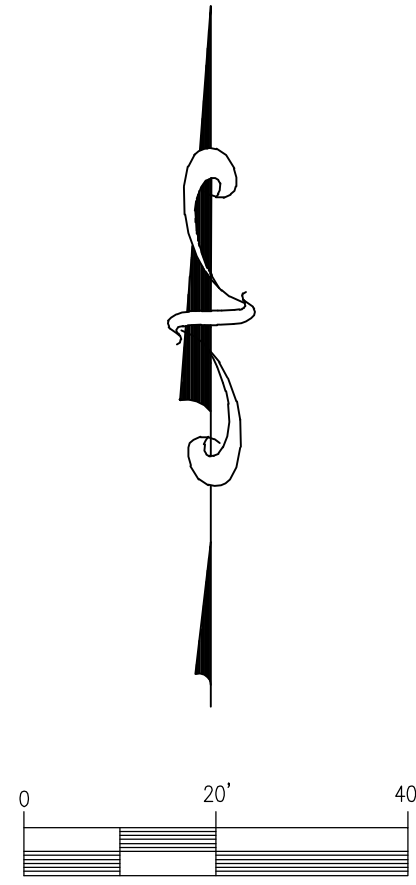
DEE JASPAR & ASSOCIATES, INC.
ENGINEERS
2200 JACOBSON ROAD, SUITE 100
SACRAMENTO, CALIFORNIA 95833
PHONE: 916.331-4799
FAX: 916.331-4799
CELL: 916.331-4799
PORTERVILLE, CALIFORNIA 93257

OREGON - PLAN & PROFILE

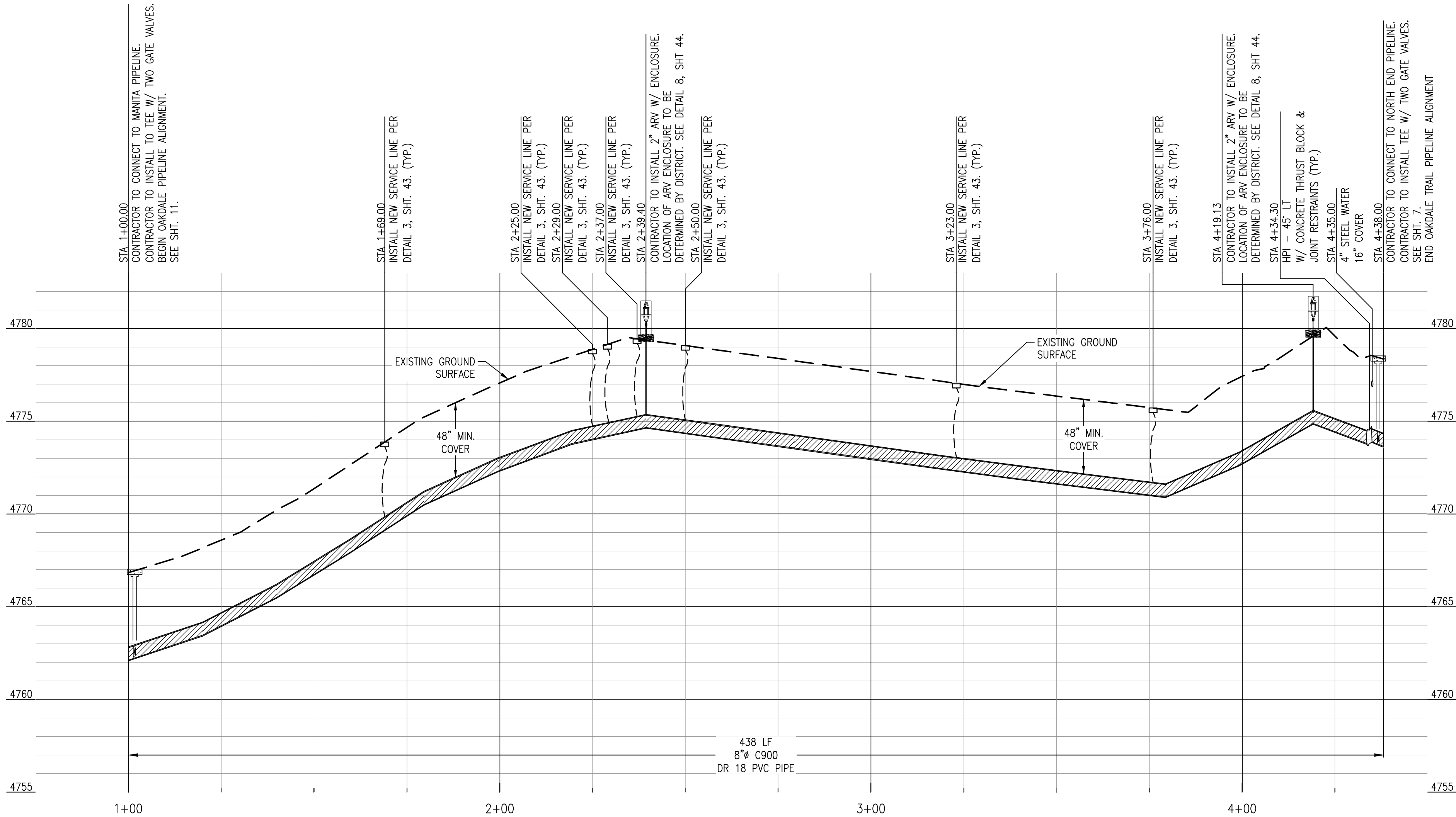
PIPELINE REPLACEMENT PROJECT

FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

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CHECKED CMS
DATE AUG2023
SCALE AS SHOWN
JOB NO.
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OF 46 SHEETS



PLAN VIEW
OAKDALE TRAIL
SCALE: 1" = 20'



PROFILE VIEW
OAKDALE TRAIL
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'



AERIAL VIEW

OAKDALE - PLAN & PROFILE

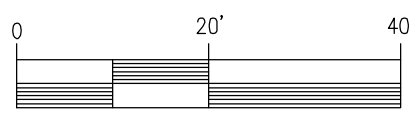
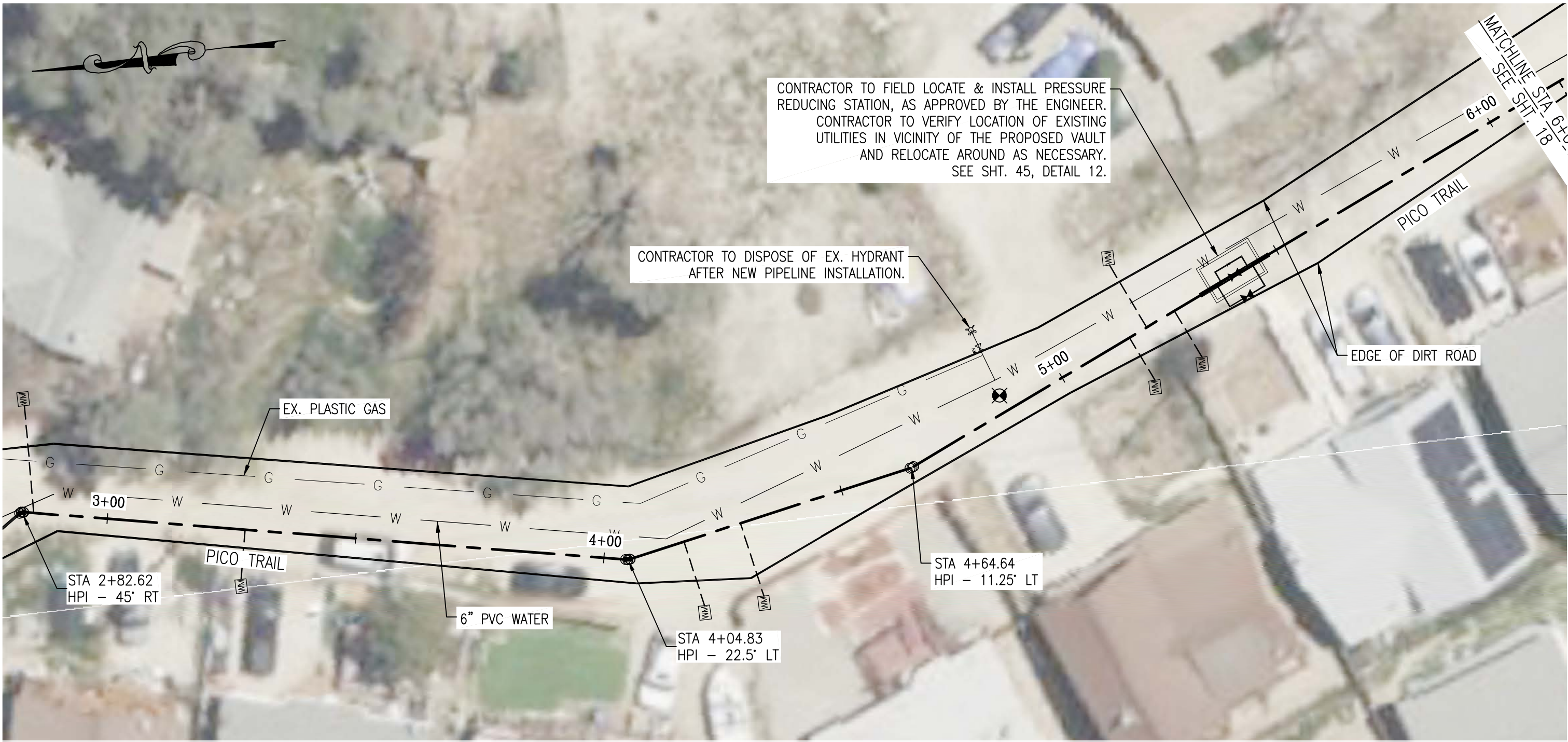
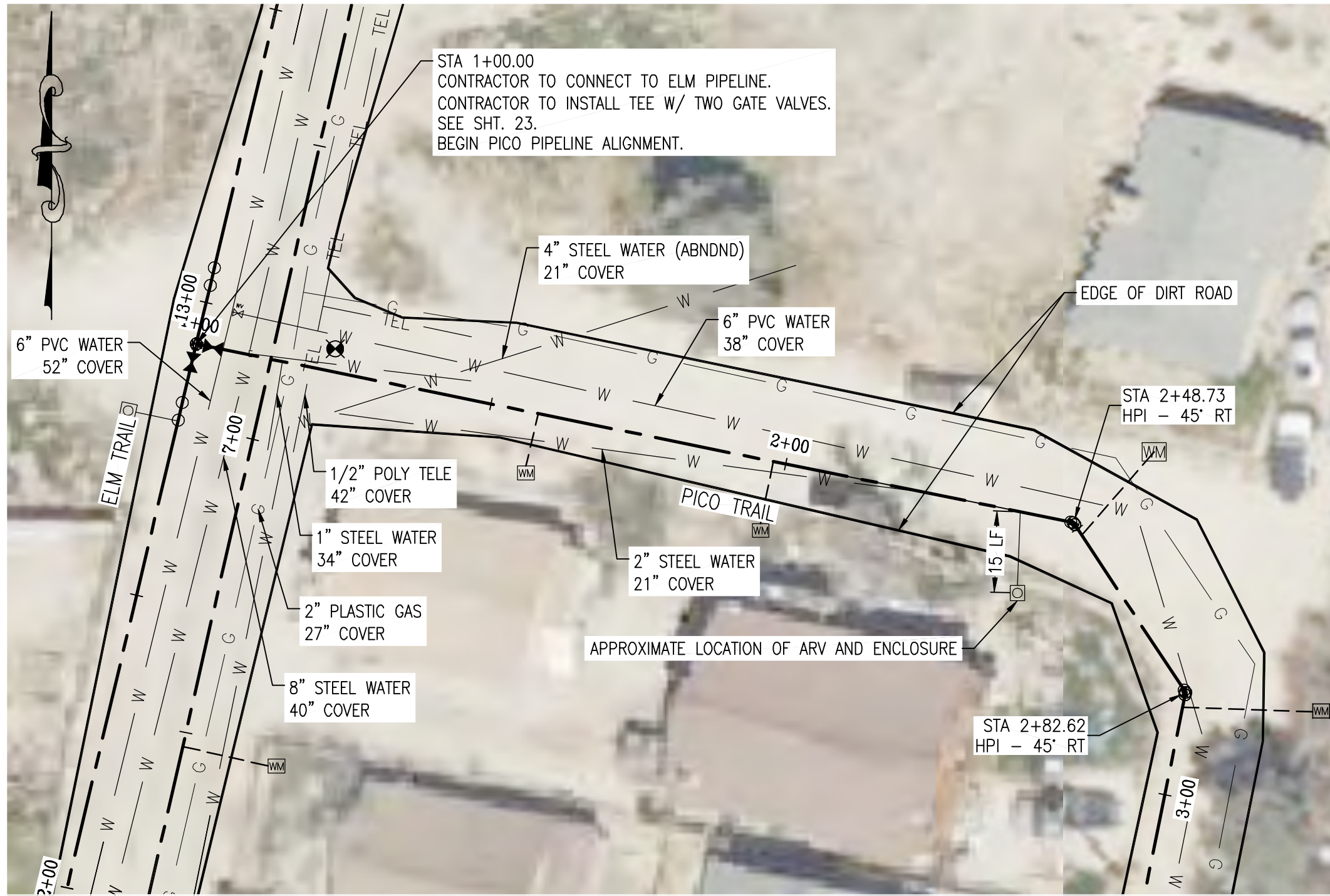
PIPELINE REPLACEMENT PROJECT

FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

DEE JASPAR & ASSOCIATES, INC.
ENGINEERS
2200 JACOBSON ROAD, SUITE 100
BAGDADE, CALIFORNIA 93308
PHONE: 866-331-4799
FAX: 866-331-4799
CELL: 559-782-9275

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JOB NO.
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OF 46 SHEETS

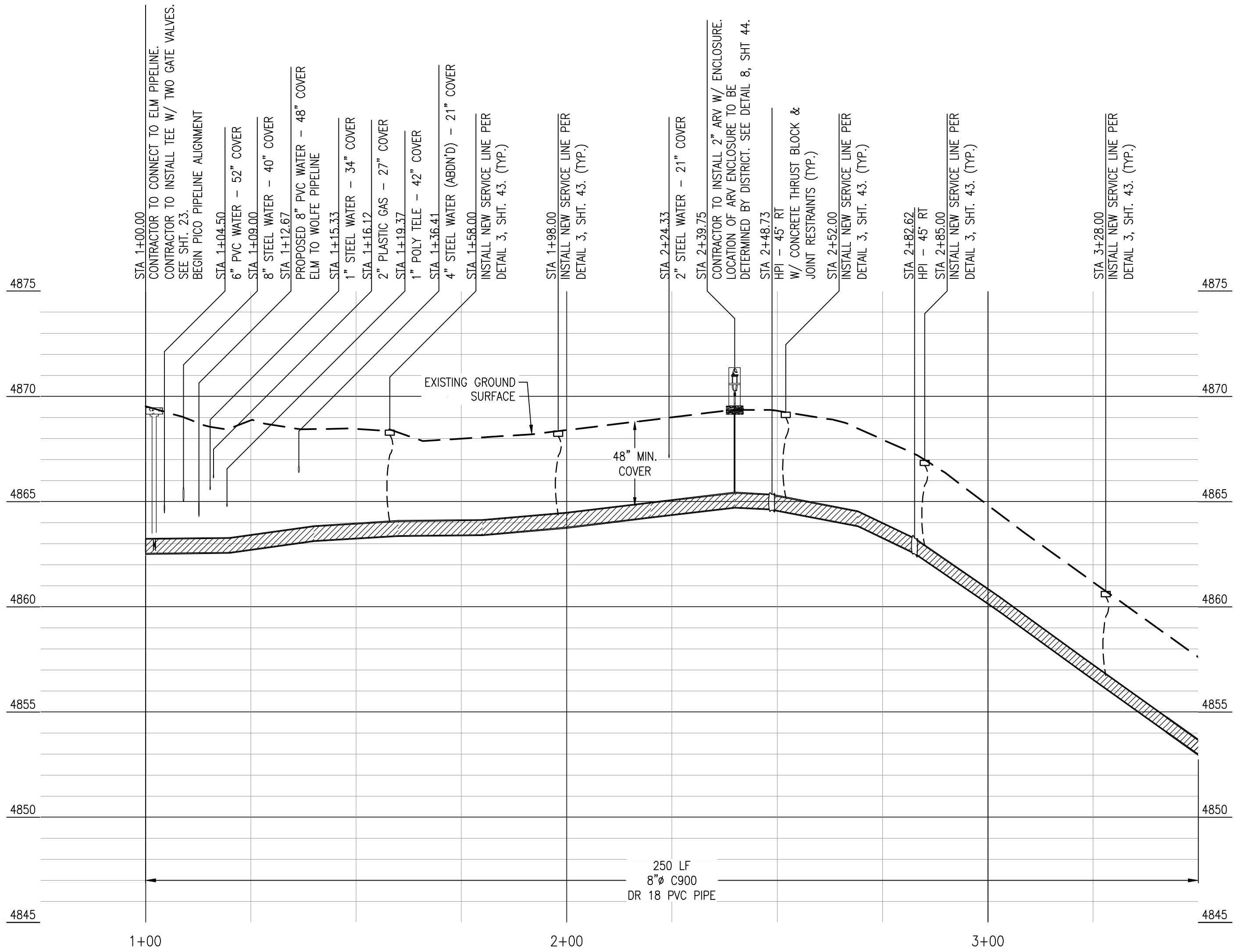
REV.	DATE	DESCRIPTION	BY



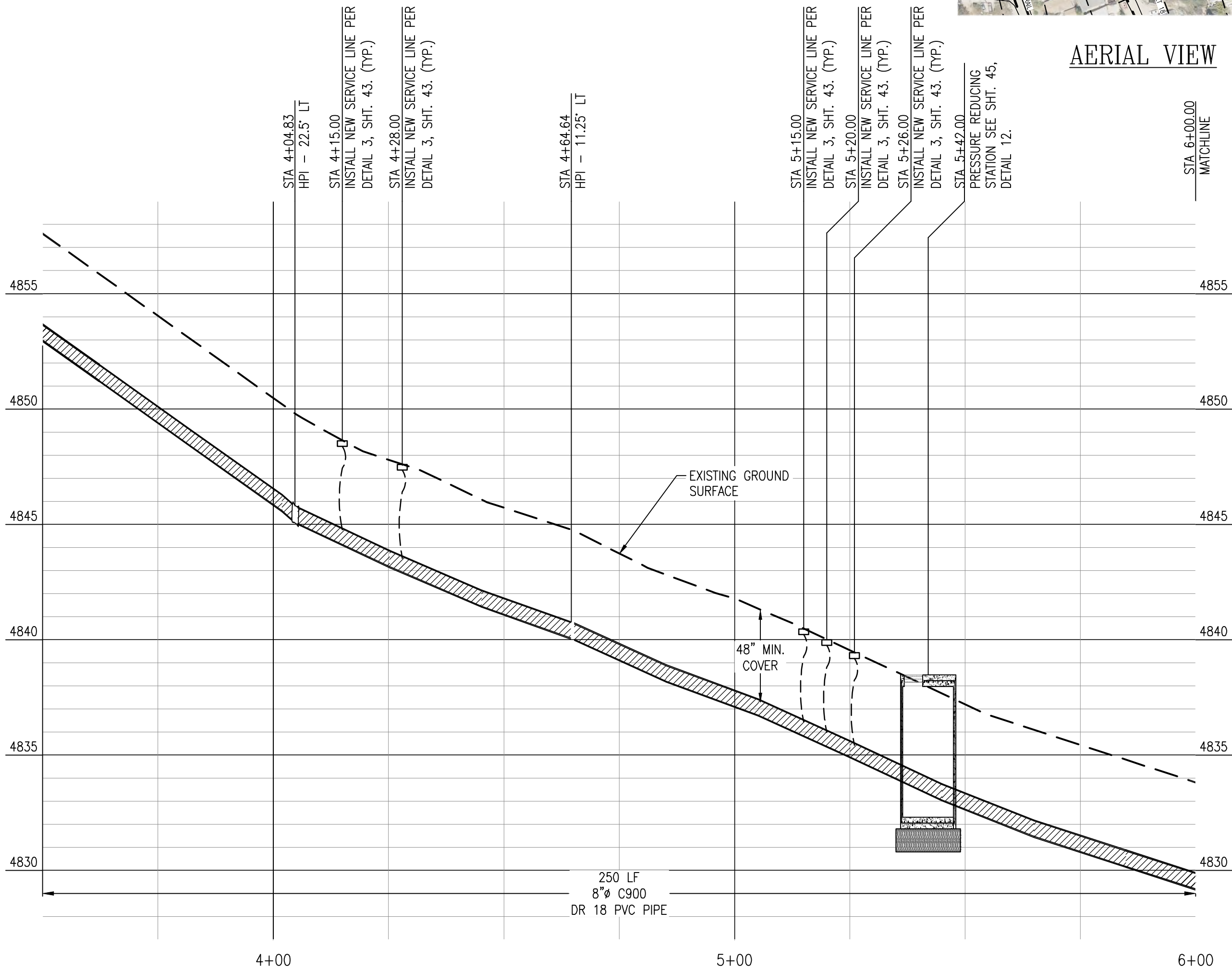
PLAN VIEW
PICO TRAIL
SCALE: 1" = 20'



AERIAL VIEW



PROFILE VIEW
PICO TRAIL
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'



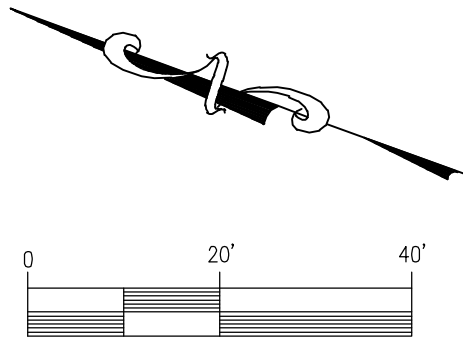
PICO - PLAN & PROFILE
PIPELINE REPLACEMENT PROJECT
FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

REV	DATE	DESCRIPTION	BY

DEE JASPAR & ASSOCIATES, INC.
ENGINEERS
2720 UNION ROAD, BLDG. A
BAKERSFIELD, CALIFORNIA 93308
PHONE: 805.333.4798
FAX: 805.333.4799
PORTERVILLE, CALIFORNIA 93257
PHONE: 509.783.9275
FAX: 509.783.9275

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JOB NO.

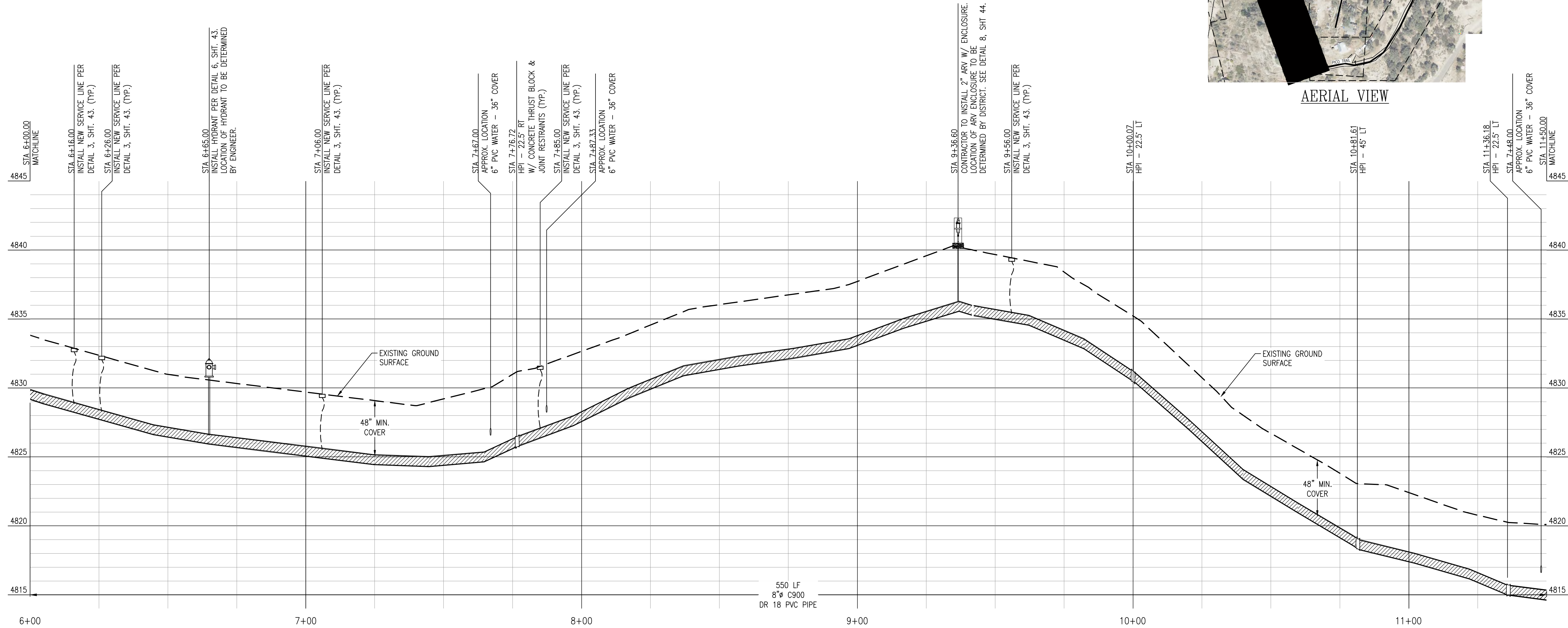
SHEET
17
OF 46 SHEETS



PLAN VIEW
PICO TRAIL
SCALE: 1" = 20'



AERIAL VIEW



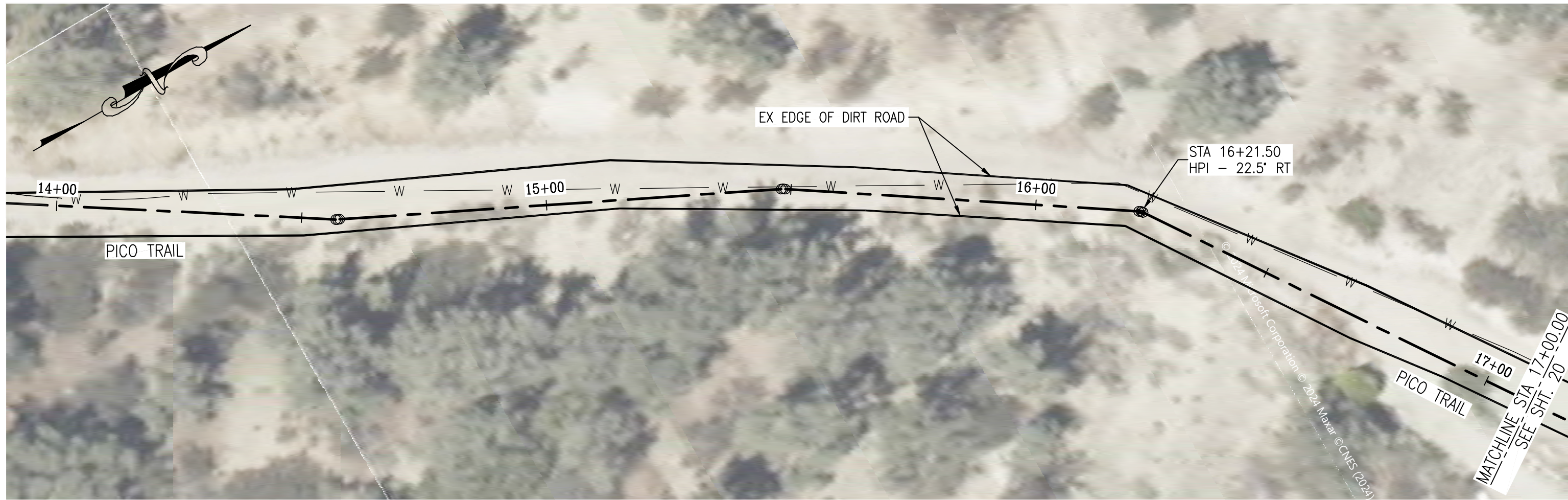
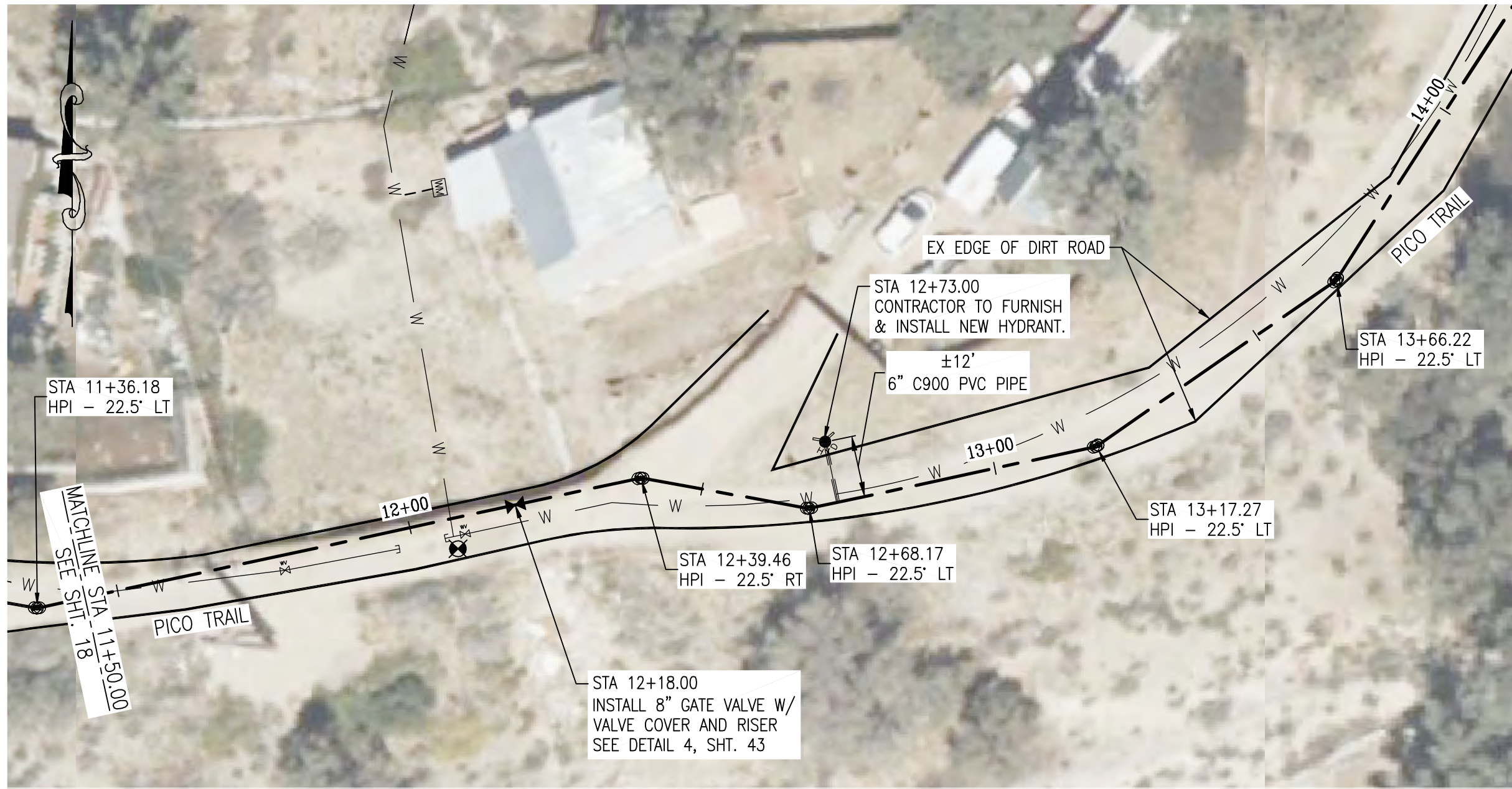
PROFILE VIEW
PICO TRAIL
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'

REV.	DATE	DESCRIPTION	BY

DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
2720 UNCOM ROAD, BLDG. A
BARTONVILLE, CALIFORNIA 93508
PHONE: 559-783-9286
FAX: 559-783-9275

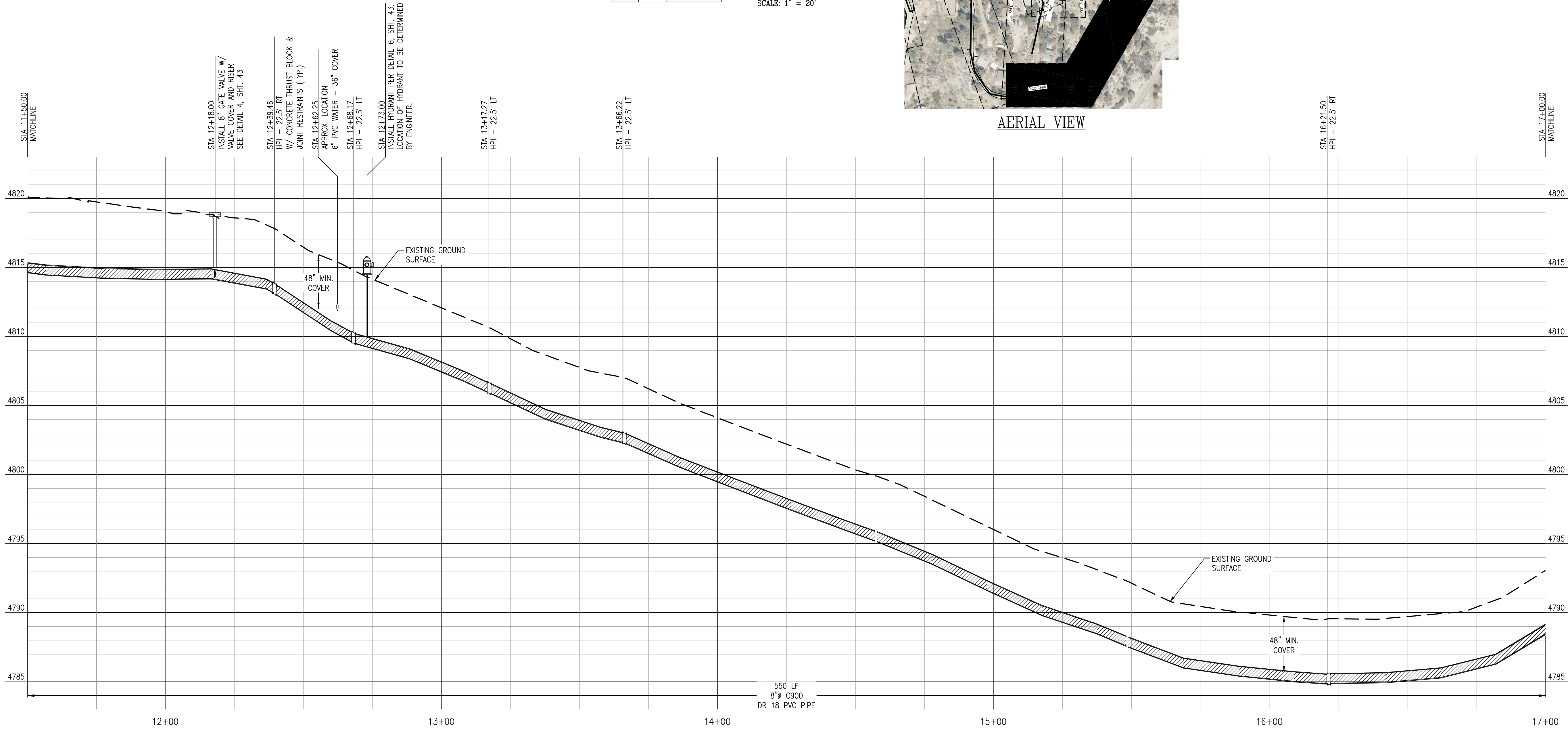
PICO - PLAN & PROFILE
PIPELINE REPLACEMENT PROJECT
FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

DRAWN CMM
CHECKED CMS
DATE AUG2023
SCALE AS SHOWN
JOB NO.
SHEET 18
OF 46 SHEETS



AERIAL VIEW

PLAN VIEW
PICO TRAIL
SCALE: 1" = 20'



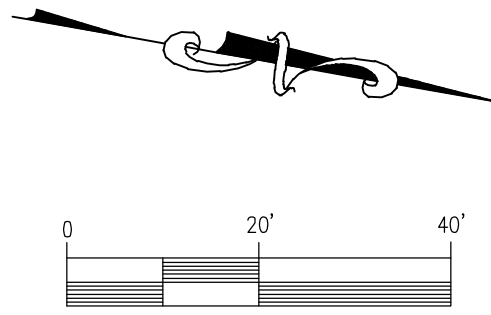
PROFILE VIEW
PICO TRAIL
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'

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DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
8730 LINDEN ROAD, BLDG. A
PORTERVILLE, CALIFORNIA 93257
PHONE 559-781-9288
FAX 559-783-9275

PICO - PLAN & PROFILE
PIPELINE REPLACEMENT PROJECT
FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

DRAWN CMM
CHECKED CMS
DATE AUG2023
SCALE AS SHOWN
JOB NO.
SHEET 19
OF 46 SHEETS



PLAN VIEW

PICO TRAIL
SCALE: 1" = 20'

STA 20+14.50
CONTRACTOR TO INSTALL 2" ARV W/
ENCLOSURE.
LOCATION OF ARV ENCLOSURE TO
BE DETERMINED BY DISTRICT.
SEE DETAIL 8, SHT 44.

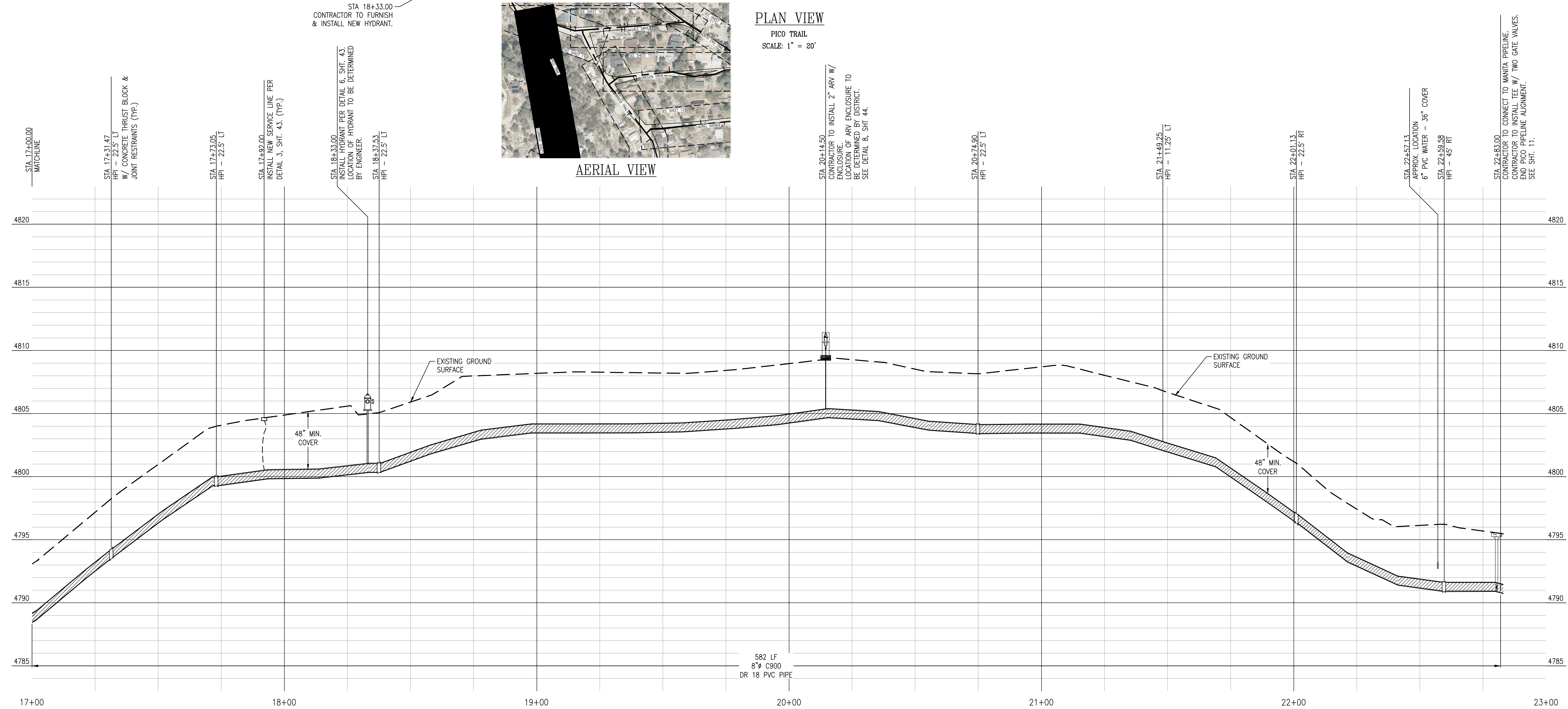
STA 20+74.90
HPI - 22.5' LT

STA 21+49.25
HPI - 11.25' LT

STA 22+01.13
HPI - 22.5' RT

STA 22+59.58
HPI - 45' RT

STA 22+83.00
CONTRACTOR TO CONNECT TO MANITA PIPELINE.
CONTRACTOR TO INSTALL TEE W/ TWO GATE VALVES.
END PICO PIPELINE ALIGNMENT.
SEE SHT. 11.



582 LF
8" C900
DR 18 PVC PIPE

PROFILE VIEW

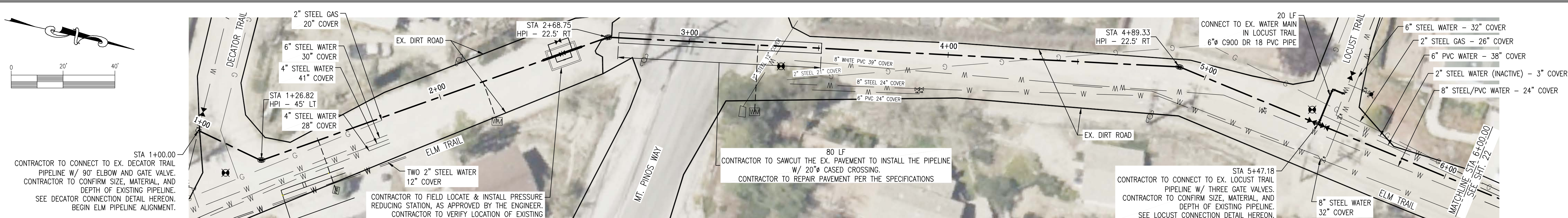
PICO TRAIL
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'

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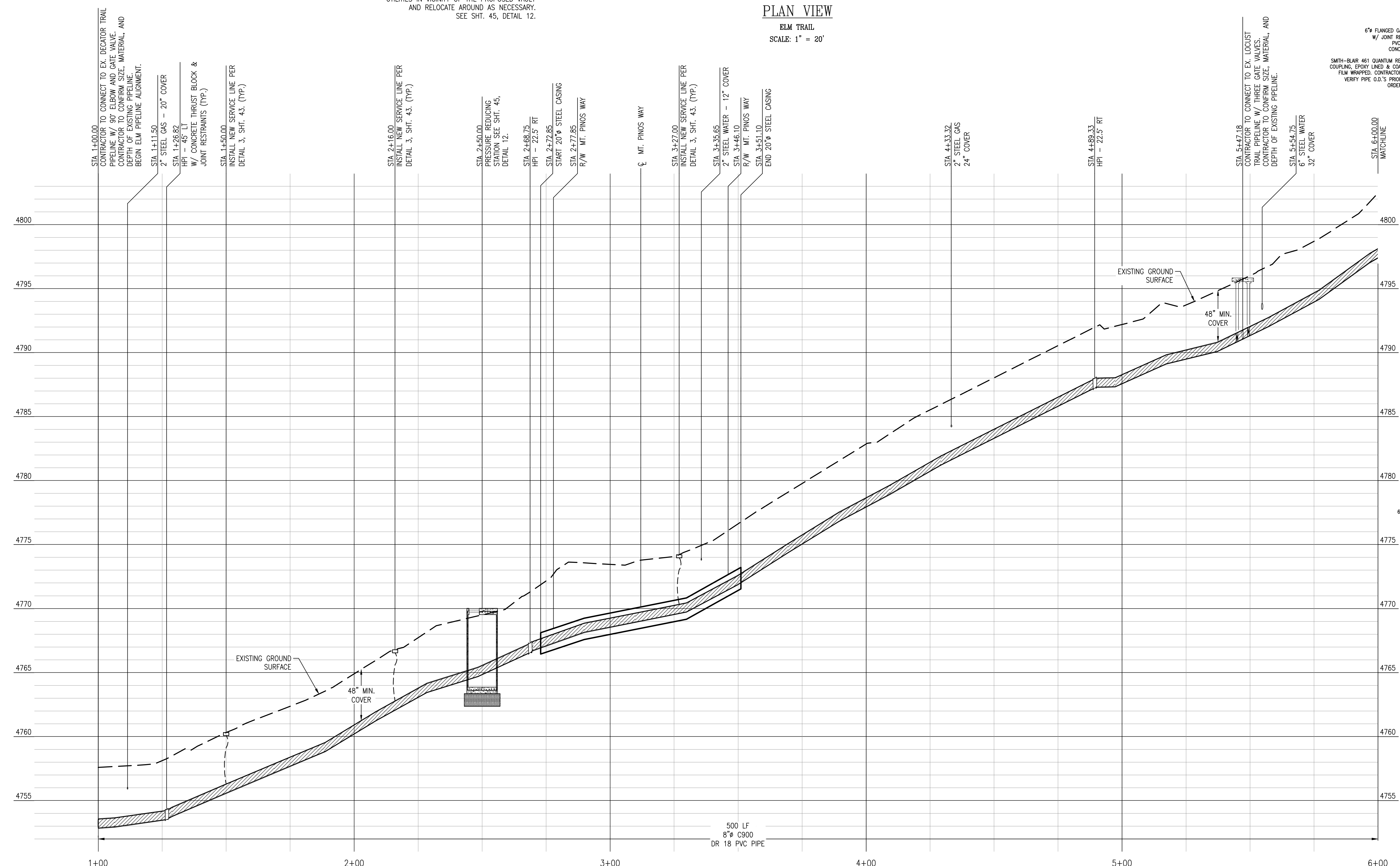
DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
1000 N. MAIN STREET, SUITE 400
BAKERSFIELD, CALIFORNIA 93308
PHONE: 805.393.4799
FAX: 805.393.4799
CELL: 805.393.4799
EMAIL: DEE@DEEJASPAR.COM

PICO - PLAN & PROFILE
PIPELINE REPLACEMENT PROJECT
FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

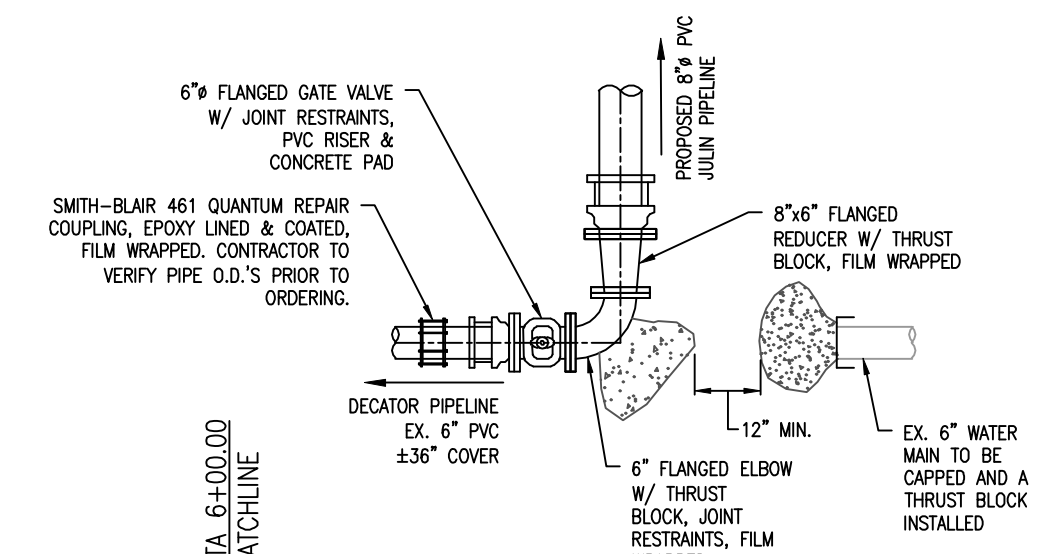
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DATE AUG2023
SCALE AS SHOWN
JOB NO.
SHEET 20
OF 46 SHEETS



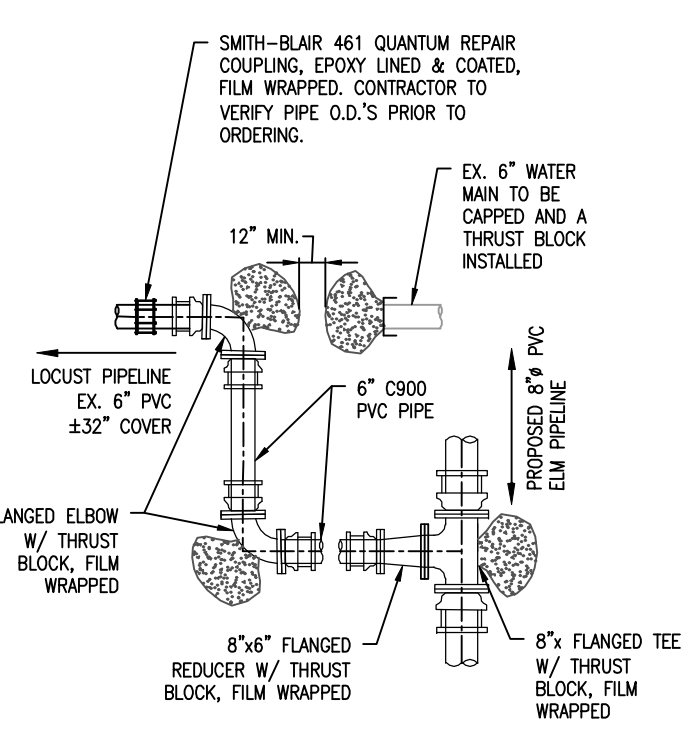
PLAN VIEW
ELM TRAIL
SCALE: 1" = 20'



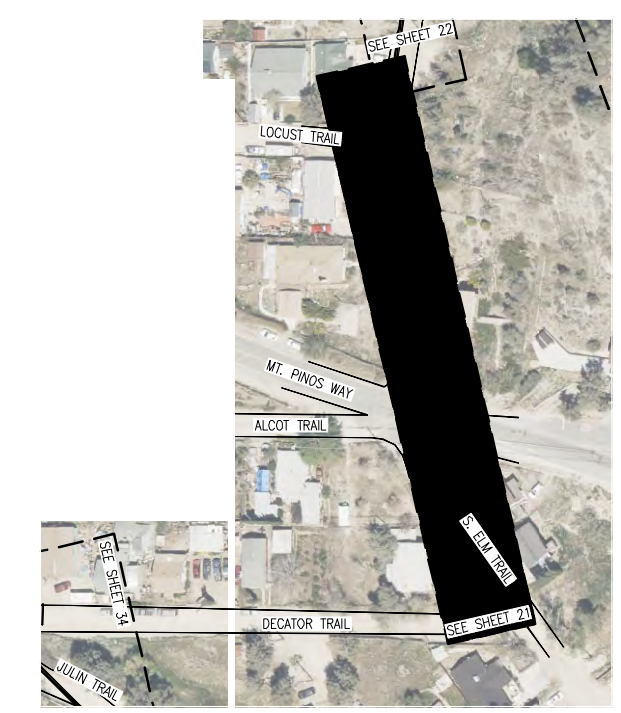
PROFILE VIEW
ELM TRAIL
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'



DECATOR CONNECTION DETAIL
SCALE: 1"=3'



LOCUST CONNECTION DETAIL
SCALE: 1"=4'



AERIAL VIEW

REV.	DATE	DESCRIPTION	BY

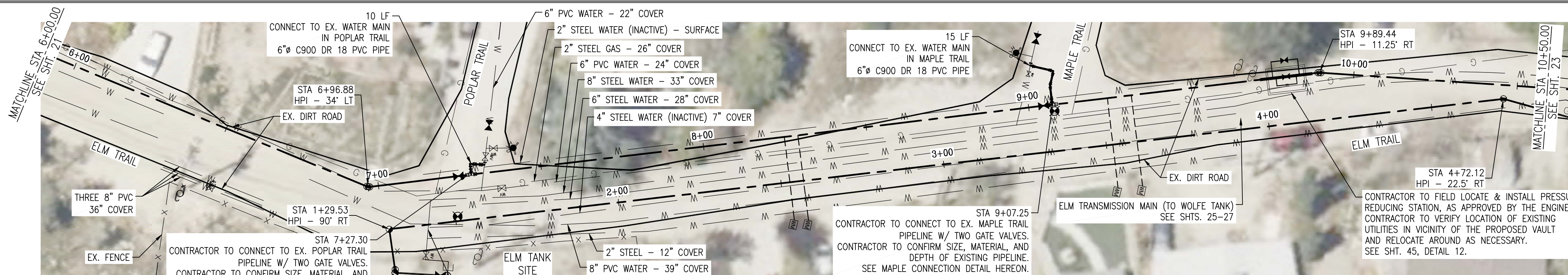
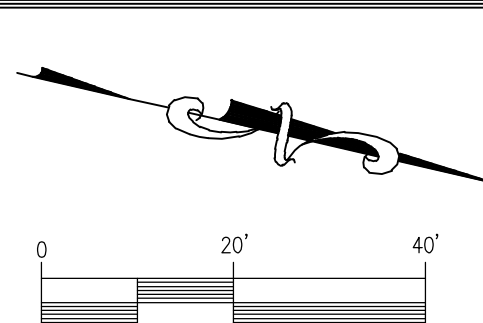
ELM DISTRIBUTION - PLAN & PROFILE

PIPELINE REPLACEMENT PROJECT

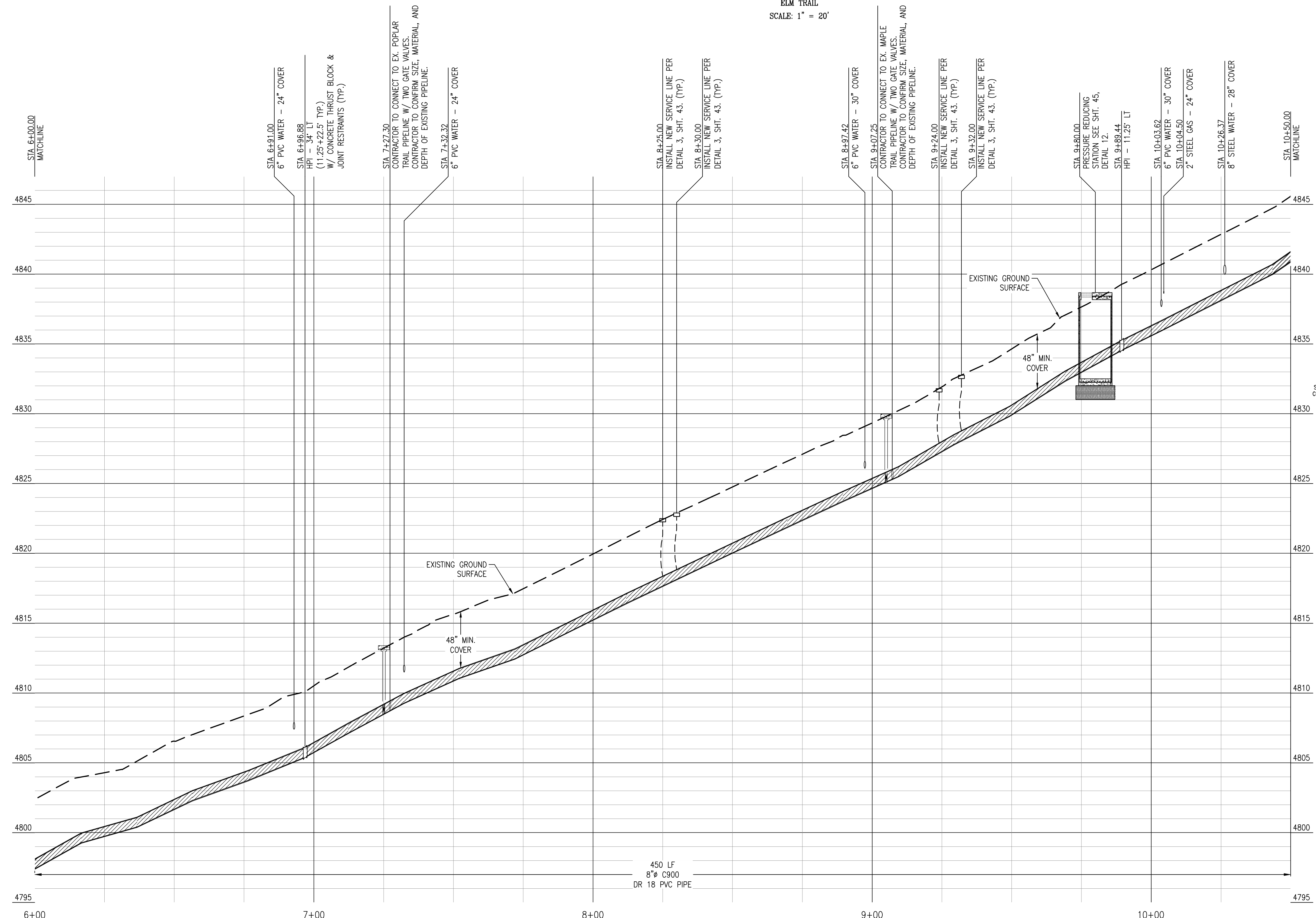
FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
8720 LINCOLN ROAD, SUITE A
PORTERVILLE, CALIFORNIA 93257
PHONE 559-791-9286
FAX 559-783-9275

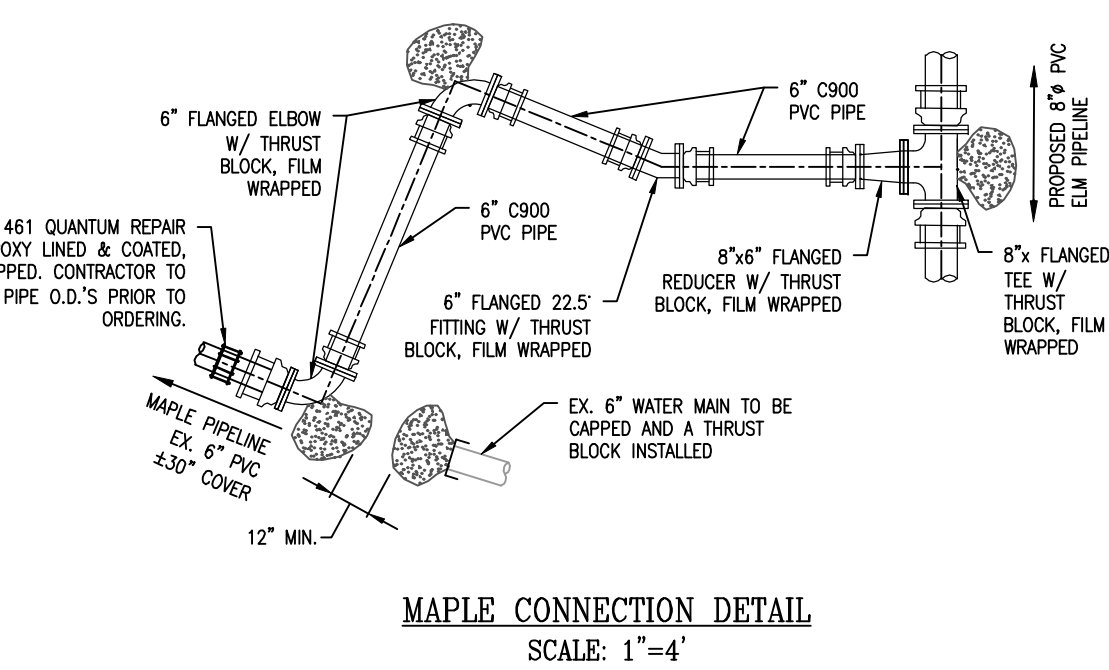
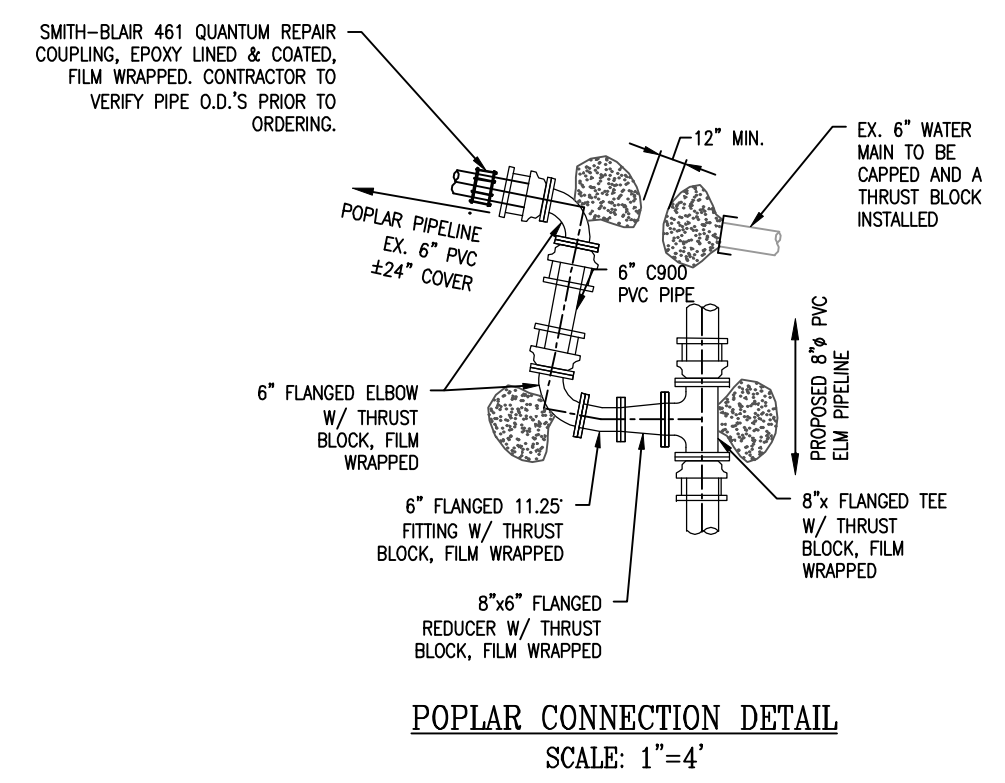
DRAWN CMM
CHECKED CMS
DATE AUG2023
SCALE AS SHOWN
JOB NO.
SHEET 21
OF 46 SHEETS



PLAN VIEW
ELM TRAIL
SCALE: 1" = 20'



PROFILE VIEW
ELM TRAIL
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'



AERIAL VIEW

REV.	DATE	DESCRIPTION	BY

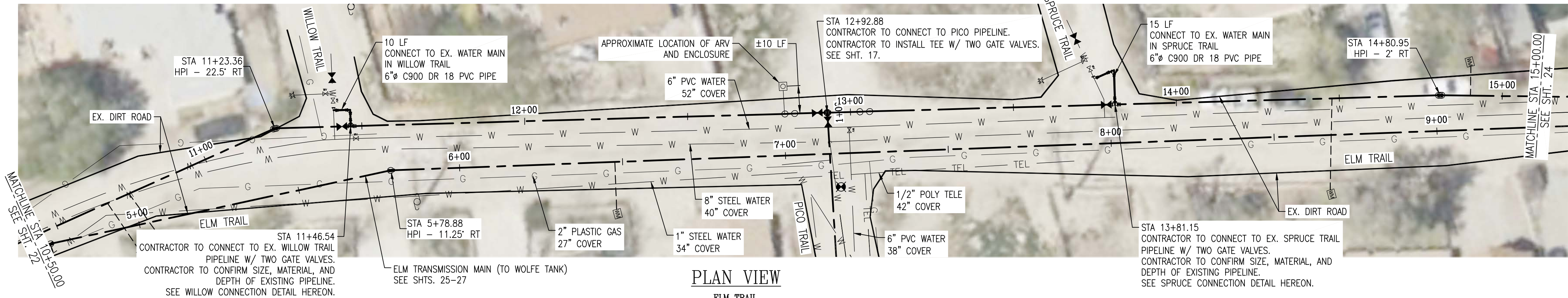
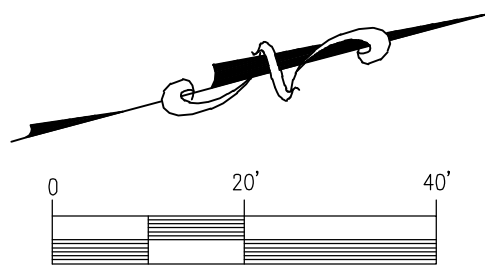
DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
1811 303A-4796
PHONE 805-303-4796
8720 LINCOLN ROAD, SUITE A
PORTERVILLE, CALIFORNIA 93257
FAX 805-303-4796

ELM DISTRIBUTION - PLAN & PROFILE

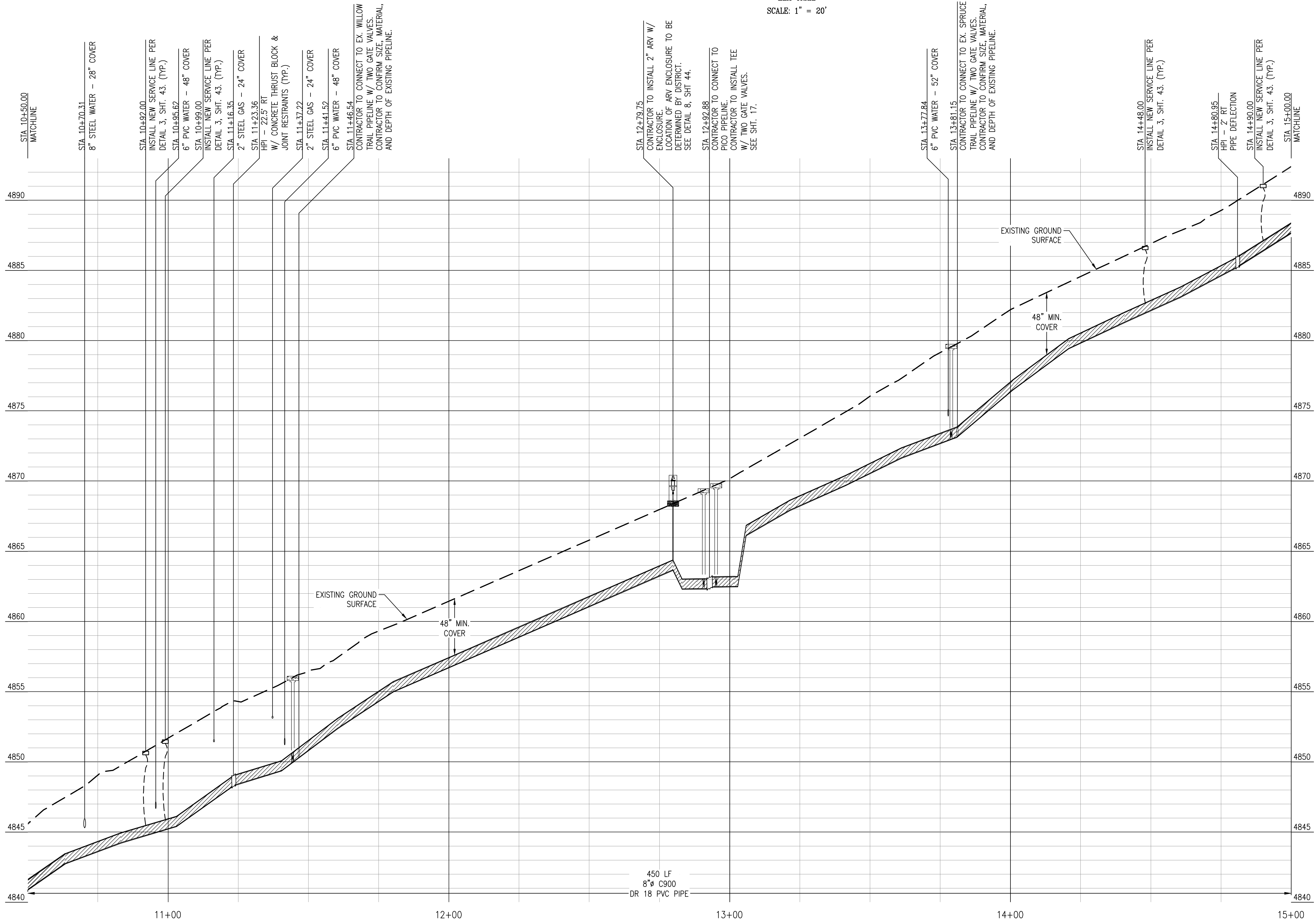
PIPELINE REPLACEMENT PROJECT

FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

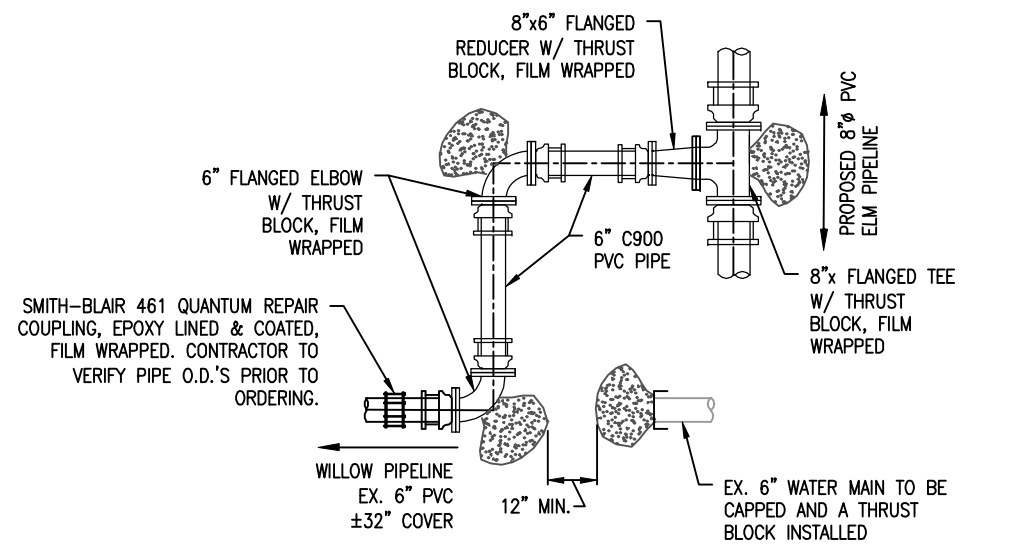
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CHECKED CMS
DATE AUG2023
SCALE AS SHOWN
JOB NO.
SHEET 22
OF 46 SHEETS



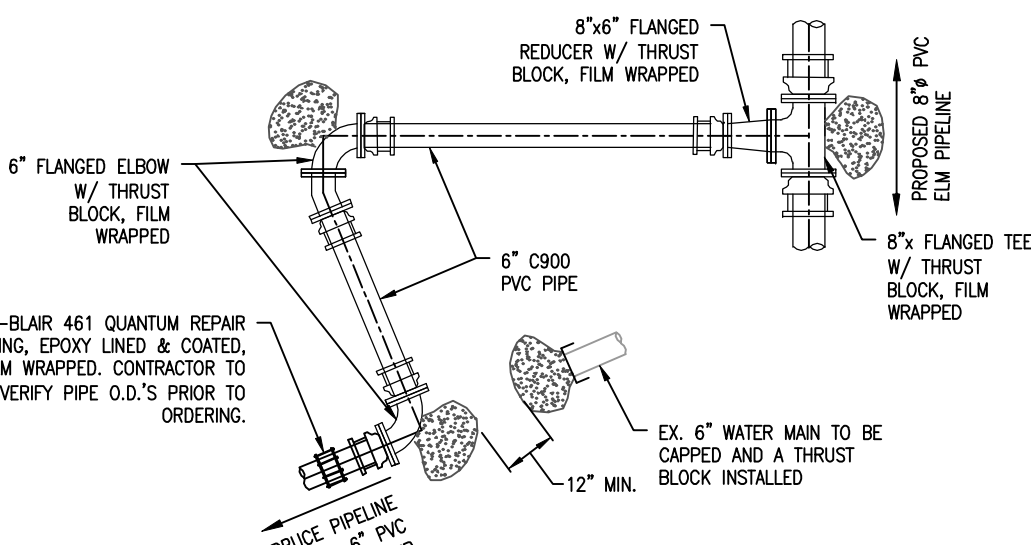
PLAN VIEW
ELM TRAIL
SCALE: 1" = 20'



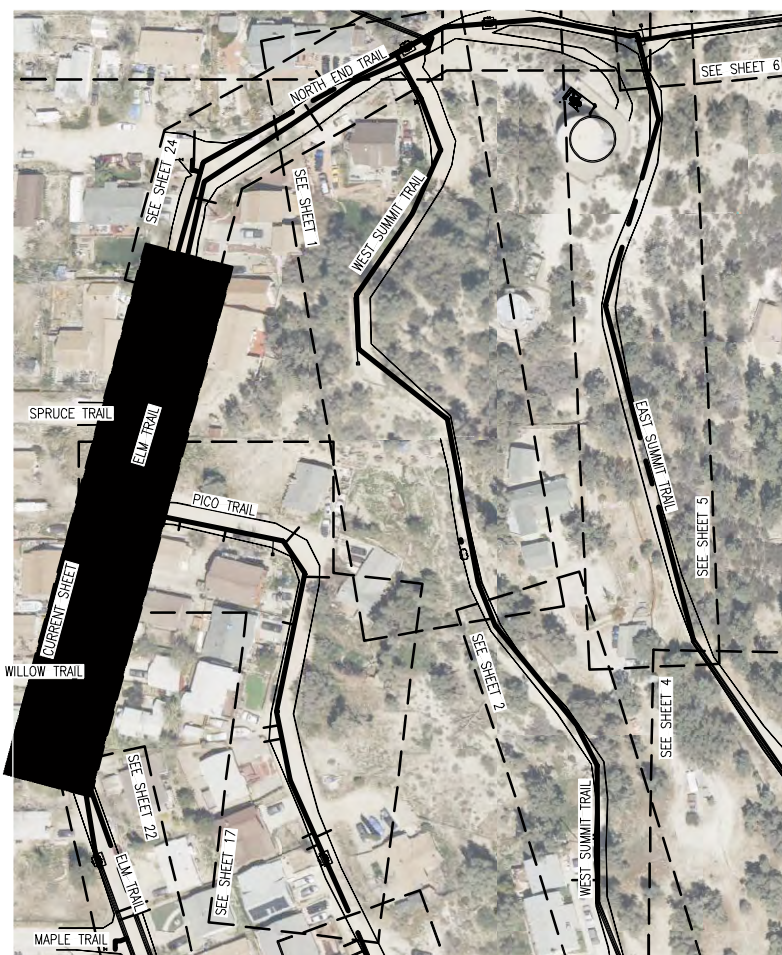
PROFILE VIEW
ELM TRAIL
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'



WILLOW CONNECTION DETAIL
SCALE: 1"=4'



SPRUCE CONNECTION DETAIL
SCALE: 1"=4'



AERIAL VIEW

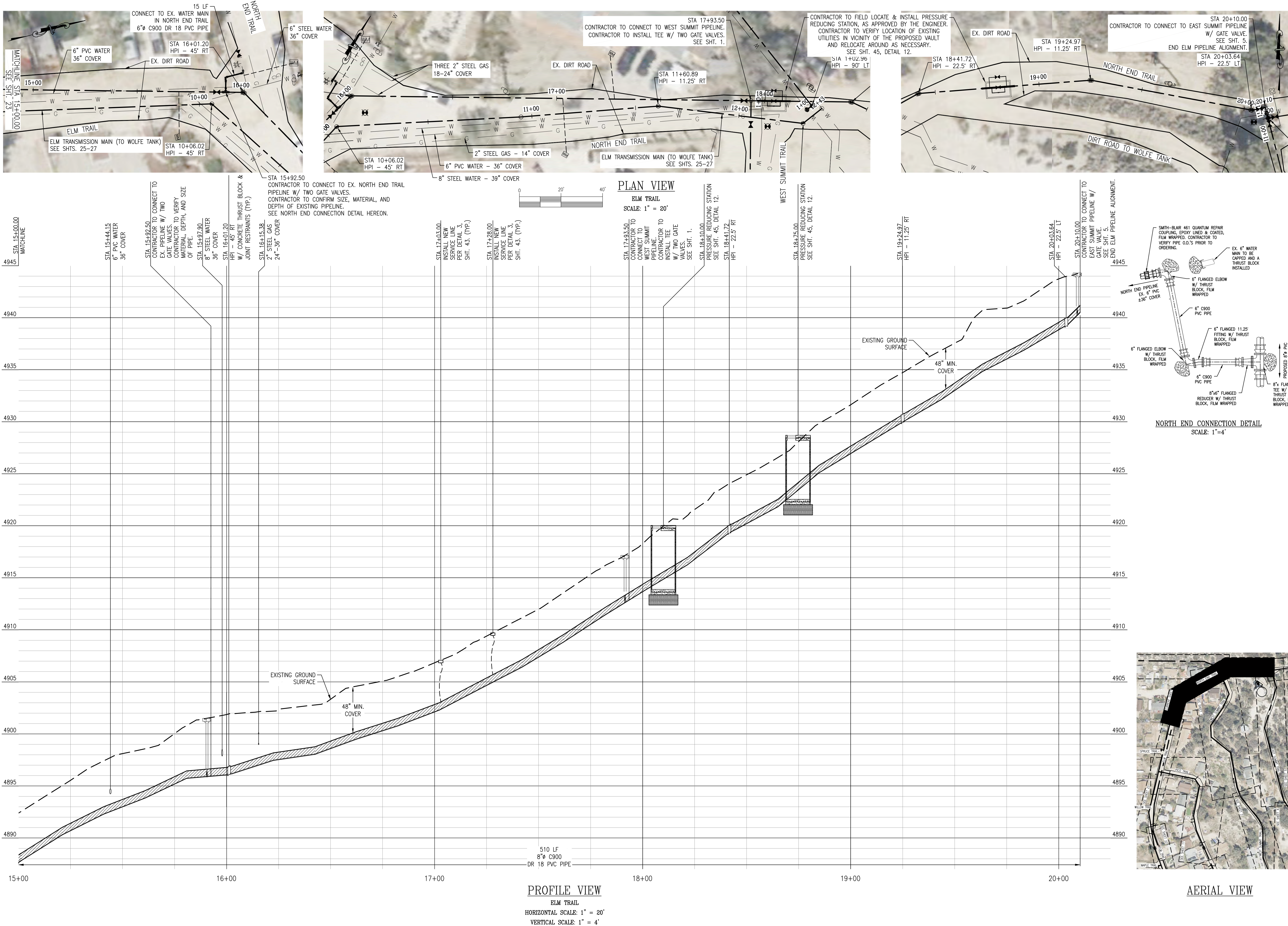
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DEE JASPAR & ASSOCIATES, INC.
ENGINEERS
2720 UNION ROAD, SUITE 100
BAKERFIELD, CALIFORNIA 93308
PHONE: 805.333.4799
FAX: 805.333.4799
PORTERVILLE, CALIFORNIA 93257
PHONE: 559.783.9275
FAX: 559.783.9275

ELM DISTRIBUTION - PLAN & PROFILE

PIPELINE REPLACEMENT PROJECT
FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

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OF 46 SHEETS



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DEE JASPAR & ASSOCIATES, INC.

ENGINEERS

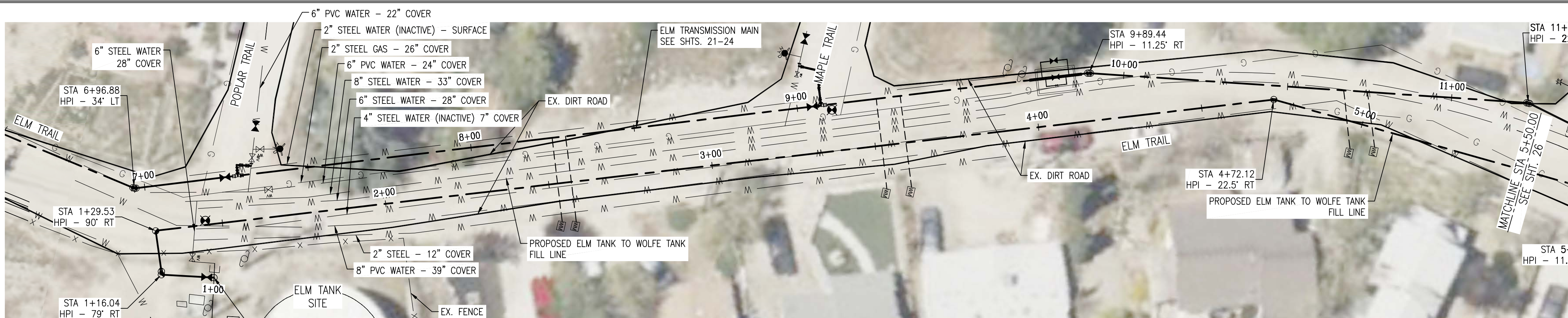
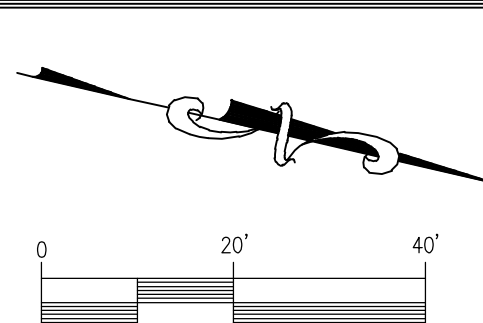
2220 UNION ROAD, BUILDING 100
BAKERSFIELD, CALIFORNIA 93308
PHONE 805.333-4799
FAX 805.333-4799
P.O. BOX 559
PORTERVILLE, CALIFORNIA 93257

ELM DISTRIBUTION - PLAN & PROFILE

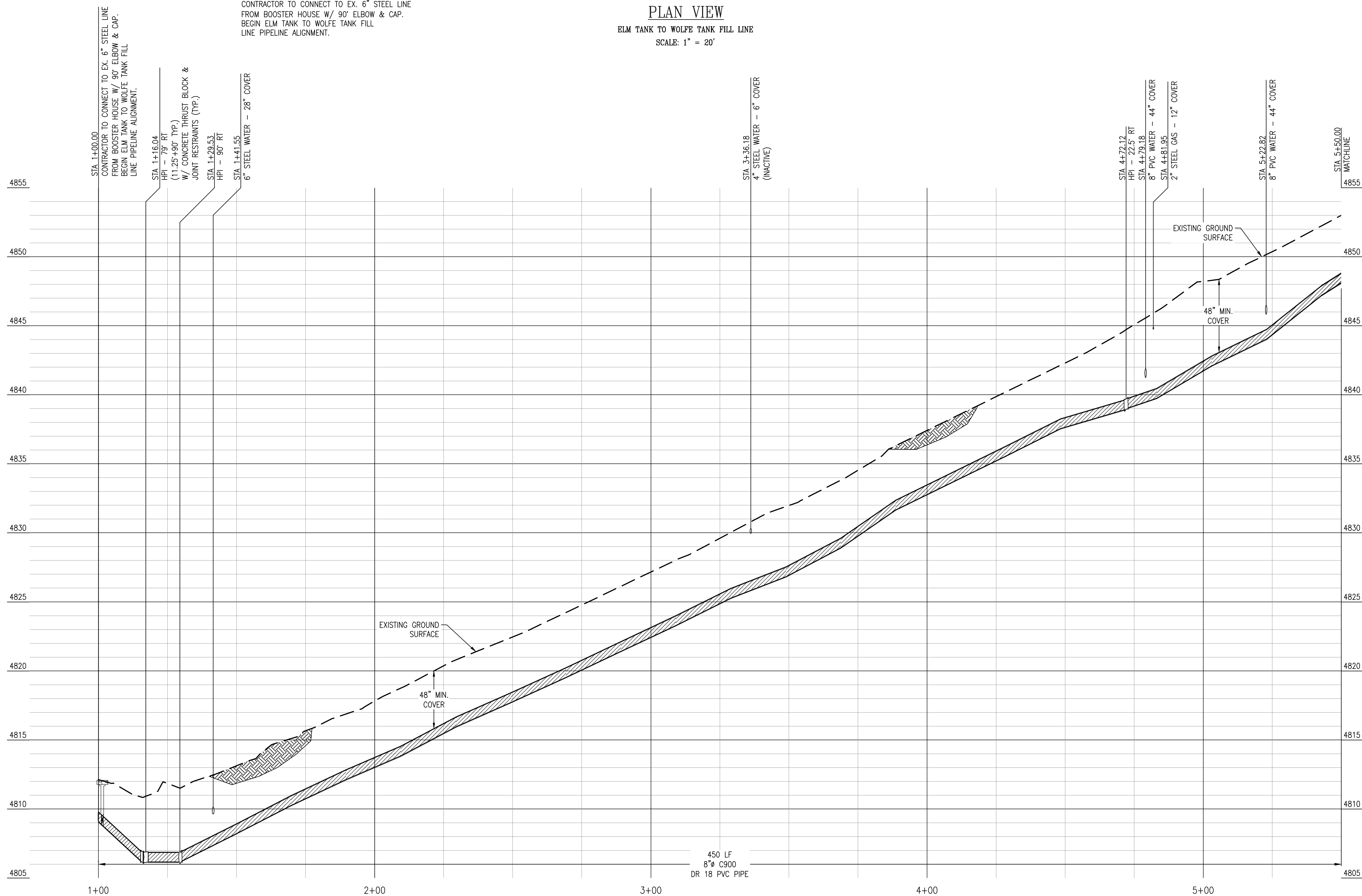
PIPELINE REPLACEMENT PROJECT

FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

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DATE AUG2023
SCALE AS SHOWN
JOB NO.
SHEET 24
OF 46 SHEETS



PLAN VIEW
ELM TANK TO WOLFE TANK FILL LINE
SCALE: 1" = 20'



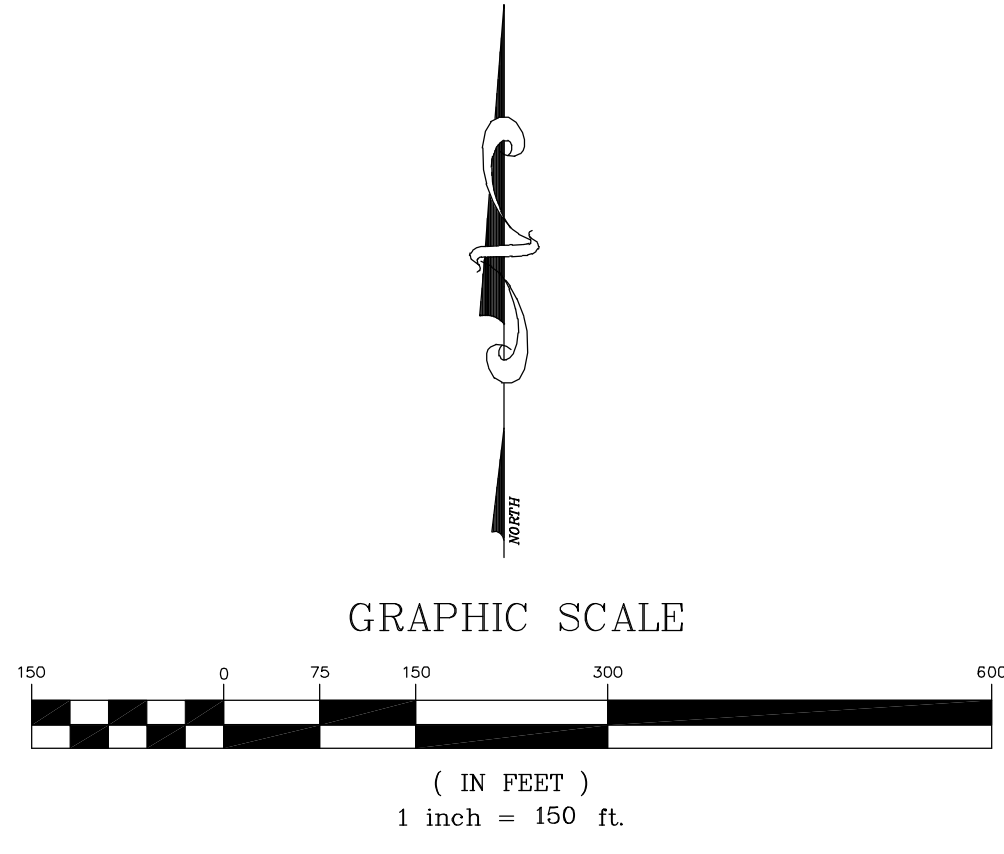
PROFILE VIEW
ELM TANK TO WOLFE TANK FILL LINE
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'

REV.	DATE	DESCRIPTION	BY
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DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
8720 UNION ROAD, BLDG. A
PORTERVILLE, CALIFORNIA 93268
PHONE 559.791-9286
FAX 559.783-9275

ELM TO WOLFE - PLAN & PROFILE
PIPELINE REPLACEMENT PROJECT
FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

DRAWN
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CMS
DATE
AUG2023
SCALE
AS SHOWN
JOB NO.
SHEET
25
OF 46 SHEETS



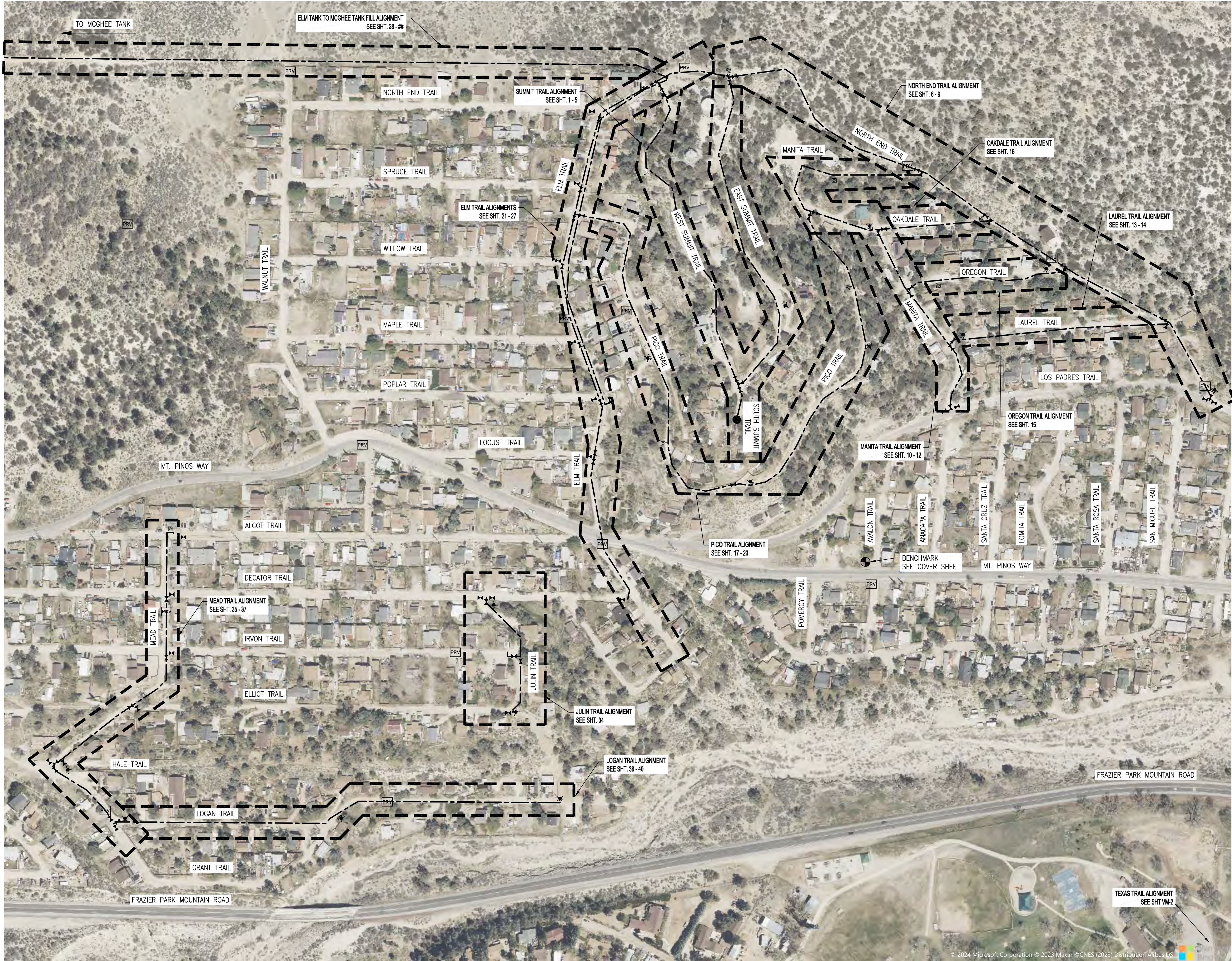
NOTE:

THE ENGINEER HAS MADE A DILIGENT SEARCH OF RECORDS, CONTACTED UTILITY COMPANIES AND OTHERWISE ENDEAVORED TO LOCATE ON THE DRAWINGS ALL UTILITIES WHICH EXIST WITHIN THE LIMITS OF THE WORK OF THIS PROJECT. HOWEVER, SINCE THE LOCATIONS AND DESCRIPTIONS WERE NOT ALL OBTAINED FROM ACTUAL FIELD SURVEYS, THE ENGINEER DOES NOT ASSUME RESPONSIBILITY FOR ERRORS OR OMISSIONS. THE CONTRACTOR SHALL CONTACT THE OWNERS OF THE UNDERGROUND FACILITIES AND REQUEST THEY LOCATE AND MARK ON THE GROUND THEIR FACILITIES PRIOR TO BEGINNING WORK. PRIOR TO DELIVERY OF ANY MATERIALS OR BEGINNING EXCAVATION FOR ANY CONSTRUCTION INCLUDING BUT NOT LIMITED TO SEWER LINES, WATER LINES, STORM DRAINS, STREETS, ETC. AND PRIOR TO BRINGING ANY ADDITIONAL MEN OR EQUIPMENT ON THE JOB, THE CONTRACTOR SHALL CORRESPOND AND CONFIRM THE EXACT LOCATION AND ANY POSSIBLE CONFLICT WITH THE WORK TO BE PERFORMED. THE ENGINEER SHALL THEN DETERMINE IF ANY REVISIONS TO THE DESIGN ARE REQUIRED AND PREPARE ANY NECESSARY REVISIONS TO THE PLANS PRIOR TO THE CONTRACTOR PROCEEDING WITH ANY WORK ON OR AROUND THE AFFECTED LINE OR LINES. NO EXTRA COMPENSATION WILL BE ALLOWED FOR EXTRA COSTS INCURRED DUE TO THE CONTRACTOR'S FAILURE TO STRICTLY FOLLOW THIS PROCEDURE.

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT APPLIES CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE DESIGN PROFESSIONAL(S) 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 THE DESIGN PROFESSIONAL(S).

- NOTES:**
1. CONTRACTOR SHALL PERFORM A U.S.A. LOCATE PRIOR TO COMMENCING CONSTRUCTION.
 2. CONTRACTOR TO CONFIRM ALL METERED CONNECTION LOCATIONS ALONG THE NEW PIPELINE ALIGNMENTS AND CONNECT EXISTING SERVICES TO NEW PIPELINES PRIOR TO TIE-IN TO EXISTING SYSTEM.
 3. THERE ARE NUMEROUS EXISTING PIPELINES IN THE DIRT ROADWAYS AND THE ALIGNMENT AND DEPTHS OF THOSE LINES VARIES. CONTRACTOR WILL BE RESPONSIBLE FOR FIELD FITTING THE PIPELINE, ALONG WITH THE FIELD INSPECTOR, WHILE MAINTAINING PROPER CLEARANCES.
 4. CONTRACTOR SHALL RESTORE AND FINE GRADE, SMOOTH, AND GENERALLY LEAVE THE DIRT ROADWAYS, WHERE DISTURBED AND WHERE PIPELINES ARE INSTALLED, IN A UNIFORM AND LEVEL CONDITION AT THE COMPLETION OF THE PROJECT.

- LEGEND**
- NEW 8" PVC WATER MAIN
 - OH --- EXISTING OVERHEAD POWER LINES
 - UTIL --- EXISTING UTILITY LINES
 - W --- EXISTING WATER LINE
 - GAS --- EXISTING GAS LINE
 - EXISTING SIGN
 - ✉ EXISTING MAIL BOX
 - Ⓢ EXISTING CABLE BOX
 - Ⓢ EXISTING CABLE MARKER
 - Ⓢ EXISTING WATER VALVE
 - Ⓢ EXISTING WATER METER
 - Ⓢ EXISTING BOLLARD/POST
 - Ⓢ EXISTING UTILITY POLE
 - Ⓢ PROPOSED GATE VALVE
 - Ⓢ PROPOSED FIRE HYDRANT
 - Ⓢ PROPOSED ARV ASSEMBLY
 - Ⓢ POT HOLE LOCATION
 - PRV PRESSURE REDUCING STATION
 - PERMANENT BLOW-OFF ASSEMBLY



REV	DATE	DESCRIPTION	BY

DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
2720 UNION ROAD, BLDG. A
BAKERSFIELD, CALIFORNIA 93308
TEL: 805.335.4799
FAX: 805.335.4799
PORTERVILLE, CALIFORNIA 93257

VICINITY MAP
PIPELINE REPLACEMENT PROJECT
FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

DRAWN CMM
CHECKED CMS
DATE AUG2023
SCALE AS SHOWN
JOB NO.
SHEET VM-1
OF 46 SHEETS

PIPELINE REPLACEMENT PROJECT

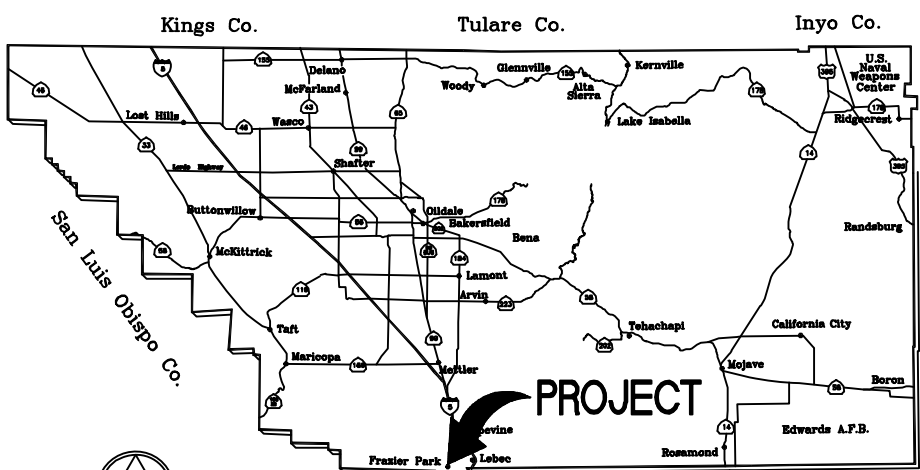
CAUTION:

CONTRACTOR SHALL CALL U.S.A. FOR LOCATION OF UNDERGROUND UTILITIES PRIOR TO EXCAVATION.

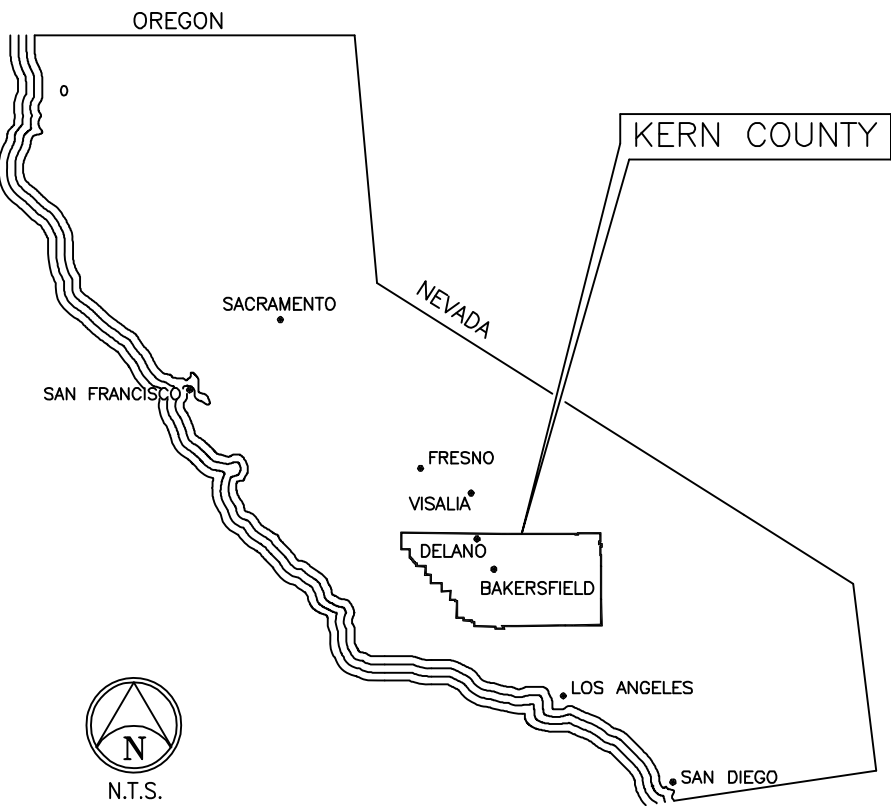
CALL 1-800-642-2444 48 HRS.

NOTE:

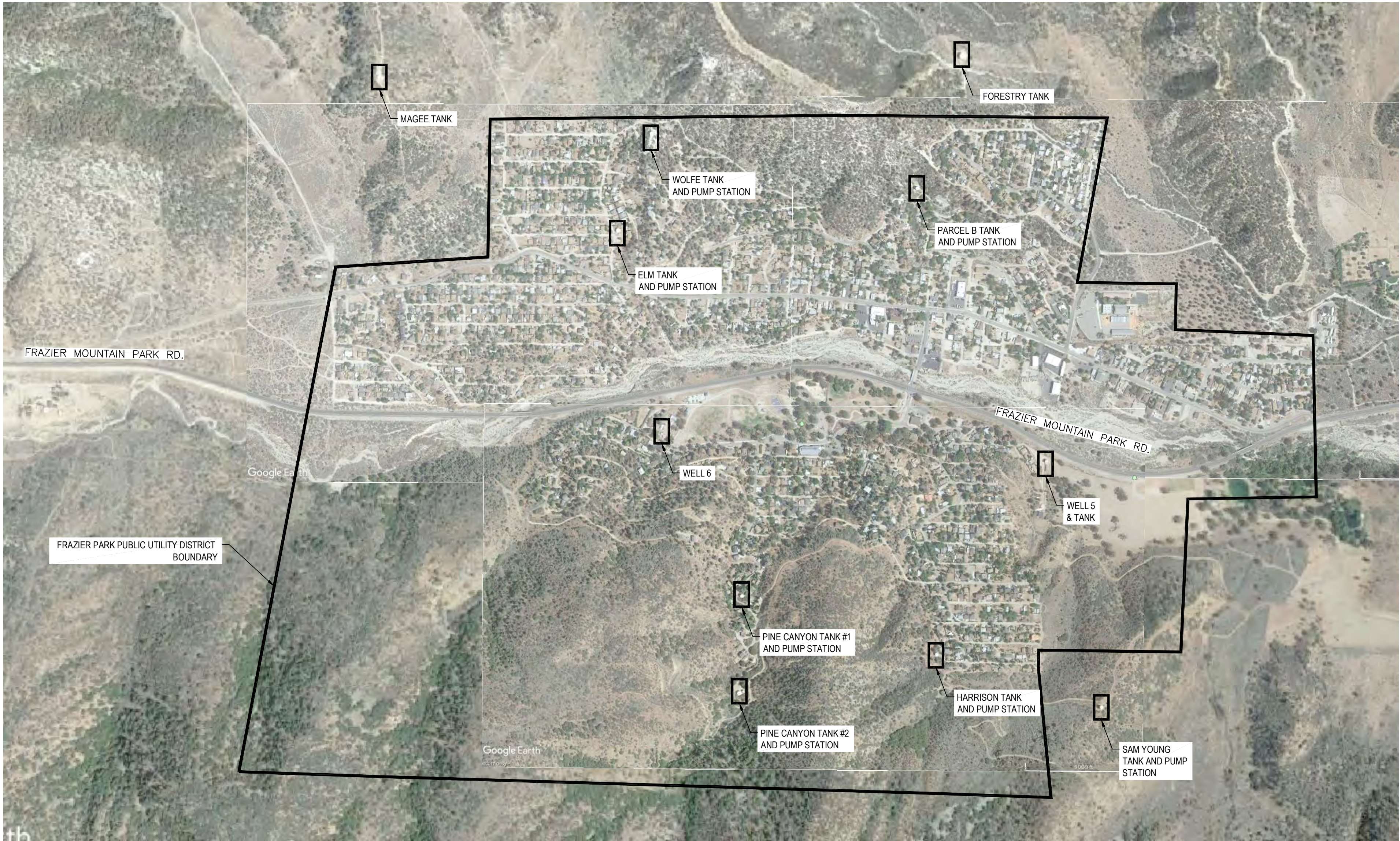
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COUNTY OF KERN



STATE OF CALIFORNIA



VICINITY MAP

NOT TO SCALE

SECTION 35 & 36, T9N, R20W S B B & M

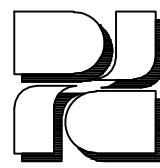
SHEET INDEX

CP	COVER PAGE
VM-1 - VM-2	VICINITY MAP/SITE PLAN
1 - 42	PIPELINE MAPS
43 - 45	PIPELINE DETAILS
46	PIPELINE GENERAL NOTES

NOTES:

CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS INCLUDING, BUT NOT LIMITED TO, STORM WATER POLLUTION PREVENT PLAN (SWPPP) AND A SJVAPCD DUST CONTROL PLAN.

CONTRACTOR SHALL PERFORM A USA LOCATE PRIOR TO COMMENCING ANY CONSTRUCTION.



DEE JASPAR & ASSOCIATES, INC.
CIVIL • ENGINEERS
2730 UNICORN ROAD, BLDG A
BAKERSFIELD, CALIFORNIA 93308
639 N. MAIN STREET, #B
PORTERVILLE, CALIFORNIA 93257

PHONE 661 393-4796
FAX 661 393-4799
PHONE 559 781-8286
FAX 559 783-9275

DESIGNED BY: C. MATT MEDRANO RCE 86590 (03-31-25)

REVIEWED BY: CURTIS M. SKAGGS RCE 60960 (12-31-24)

APPROVED BY: DEE JASPAR RCE 23042 (12-31-23)

APPROVED BY: JONNIE ALLISON, GENERAL MANAGER FRAZIER PARK PUBLIC UTILITY DISTRICT DATE

BASIS OF BEARINGS:

BENCHMARK: 4.663.72

NATIONAL GEODETIC SURVEY MONUMENT EW6916 (NAVD 88) DESIGNATION-J 1298. SURVEY DISC SET 0.3 FEET BELOW SURFACE OF GROUND, ACCESS TO WHICH IS HAD THROUGH A 4-INCH PLASTIC SCREW PLUG. IN THE NORTHWEST CORNER OF THE INTERSECTION OF MT. PINOS AND ANACAPA ROAD, BY A LARGE FLOWER GARDEN WITH ROCK WALL SURROUNDING IT, 25 FEET. WEST OF CENTER LINE OF ANACAPA ROAD, 24 FEET. NORTH OF CENTER LINE OF MT. PINOS ROAD, 3 FEET. SOUTH OF THE SOUTHEAST CORNER OF FLOWER GARDEN, 2 FEET WEST OF POWER POLE NUMBER 1421300B. SEE SHEET VM-1.

FRAZIER PARK PUBLIC UTILITY DISTRICT KERN COUNTY, CALIFORNIA

AUGUST 2023



Know what's below.
Call before you dig.

THE ENGINEER HAS MADE A GENERAL SURVEY OF RECORDS, CONTACTED UTILITY COMPANIES AND OTHERWISE ENDEAVORED TO INDICATE ON THE DRAWINGS ALL UTILITIES WHICH EXIST WITHIN THE LIMITS OF THIS PROJECT. HOWEVER, SINCE THE LOCATIONS AND DESCRIPTIONS WERE NOT ALL OBTAINED FROM ACTUAL FIELD SURVEYS, THE ENGINEER DOES NOT WARRANT THE ACCURACY OF THE INFORMATION SHOWN ON THE DRAWINGS. IT IS THE RESPONSIBILITY OF THE OWNERS OF THE UNDERGROUND FACILITIES AND REQUEST THEY LOCATE AND MARK ON THE GROUND THEIR FACILITIES PRIOR TO BEGINNING WORK. PRIOR TO DELIVERY OF ANY MATERIALS OR BEGINNING EXCAVATION FOR ANY STRUCTURE INCLUDING BUT NOT LIMITED TO SEWER LINES, WATER LINES, STEAM DRAINS, STREETS, ETC. AND PRIOR TO BRICKWORK OR CONCRETE POURING, THE ENGINEER SHALL BE NOTIFIED BY THE OWNERS OF ANY CHANGES TO THE LOCATION AND ANY POSSIBLE CONFLICT WITH THE WORK TO BE PERFORMED. THE ENGINEER SHALL THEN DETERMINE IF ANY REVISIONS TO THE DESIGN ARE REQUIRED AND PREPARE ANY NECESSARY REVISIONS TO THE PLANS PRIOR TO ANY CONSTRUCTION PROCEEDING WITH ANY WORK ON OR AROUND THE AFFECTED LINE OR LINES. NO EXTRA COMPENSATION SHALL BE ALLOWED FOR EXTRA COSTS INCURRED DUE TO THE CONTRACTOR'S FAILURE TO STRICTLY FOLLOW THIS PROCEDURE.

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 NEW 8" PVC WATER MAIN
 OH EXISTING OVERHEAD POWER LINES
 UTIL EXISTING UTILITY LINES
 W EXISTING WATER LINE
 GAS EXISTING GAS LINE
 EXISTING SIGN
 EXISTING MAIL BOX
 EXISTING CABLE BOX
 EXISTING CABLE MARKER
 EXISTING WATER VALVE
 EXISTING WATER METER
 EXISTING BOLLARD/POST
 EXISTING UTILITY POLE
 PROPOSED GATE VALVE
 PROPOSED FIRE HYDRANT
 PROPOSED ARV ASSEMBLY
 POT HOLE LOCATION
 PRESSURE REDUCING STATION
 PERMANENT BLOW-OFF ASSEMBLY

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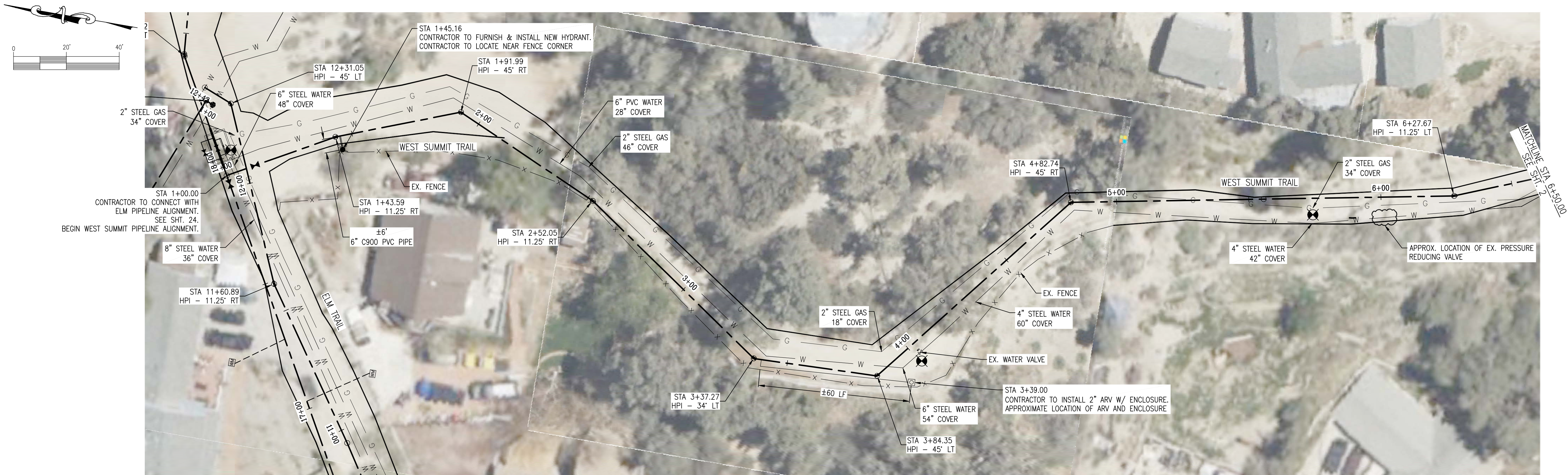
DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
2730 UNICORN ROAD, BLOS A
BAKERSFIELD, CALIFORNIA 93308
661 393-4796 PHONE
661 393-4799 FAX
639 N. MAIN STREET, #B
PORTERVILLE, CALIFORNIA 93257
559 791-9286 PHONE
559 793-9275 FAX

VICINITY MAP

PIPELINE REPLACEMENT PROJECT

FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

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DATE AUG2023
SCALE AS SHOWN
JOB NO.
SHEET
VM-2
OF 46 SHEETS

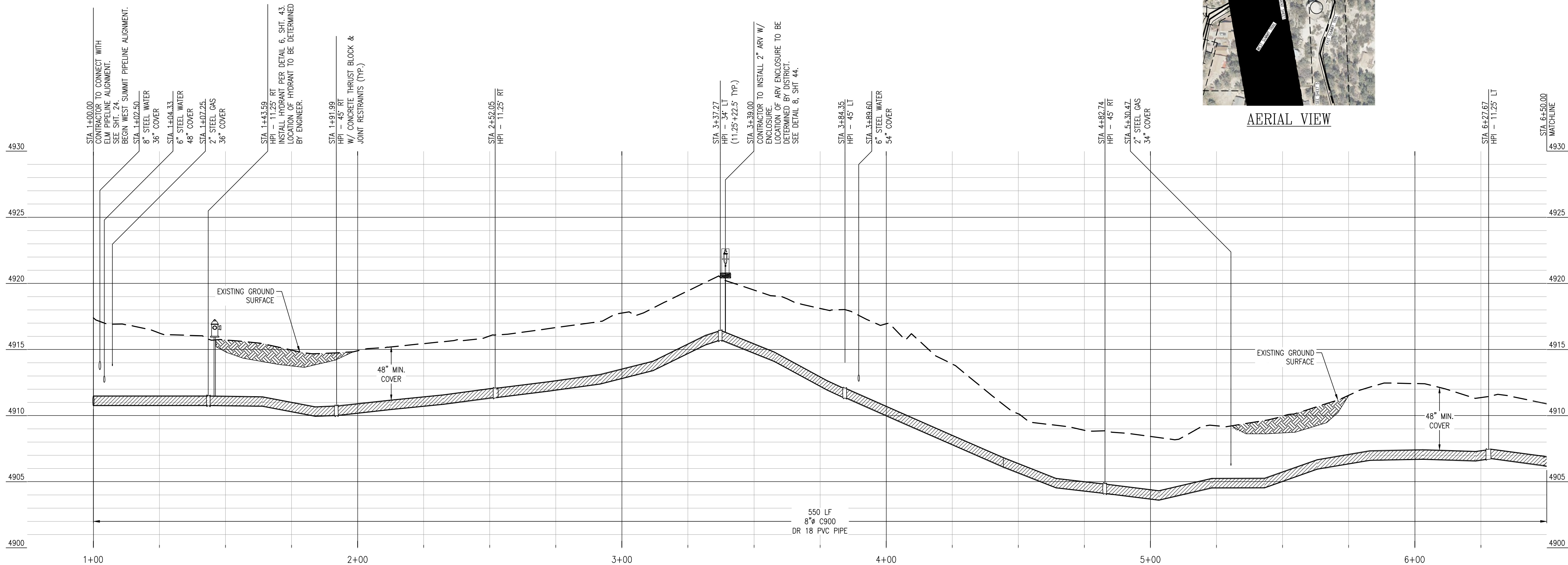


PLAN VIEW

WEST SUMMIT TRAIL
SCALE: 1" = 20'



AERIAL VIEW



PROFILE VIEW

WEST SUMMIT TRAIL
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'

REV	DATE	DESCRIPTION	BY
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DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
2720 UNION ROAD, BLDG. A
BAKERSFIELD, CALIFORNIA 93308
PHONE: 805.331-4798
FAX: 805.331-4799
PORTERVILLE, CALIFORNIA 93257
PHONE: 559.783-9275
FAX: 559.783-9275

WEST SUMMIT - PLAN & PROFILE

PIPELINE REPLACEMENT PROJECT

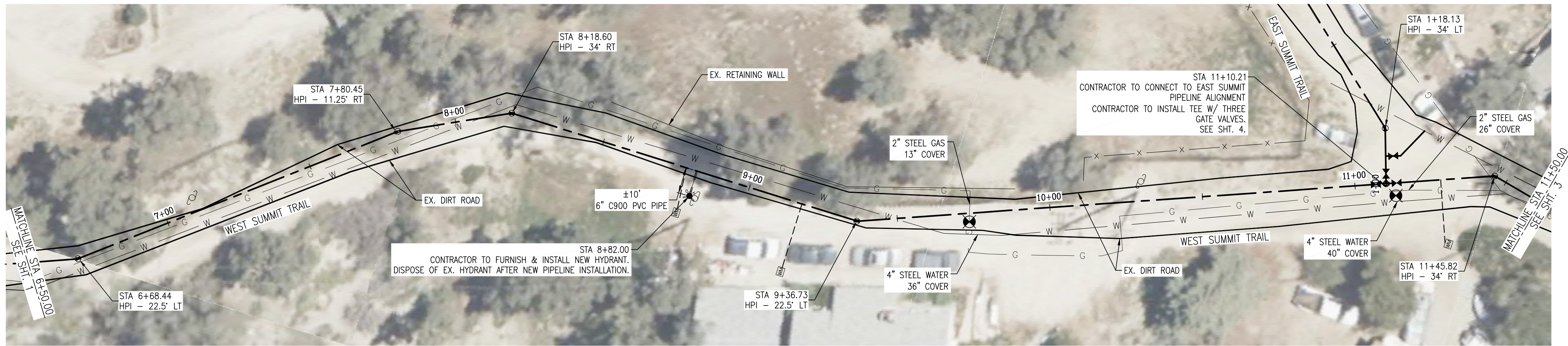
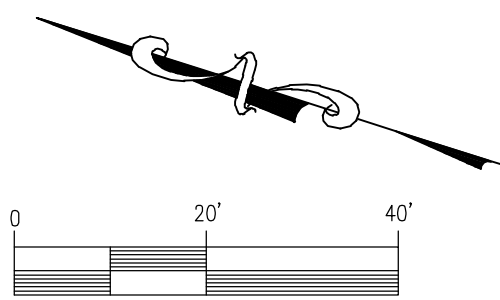
FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

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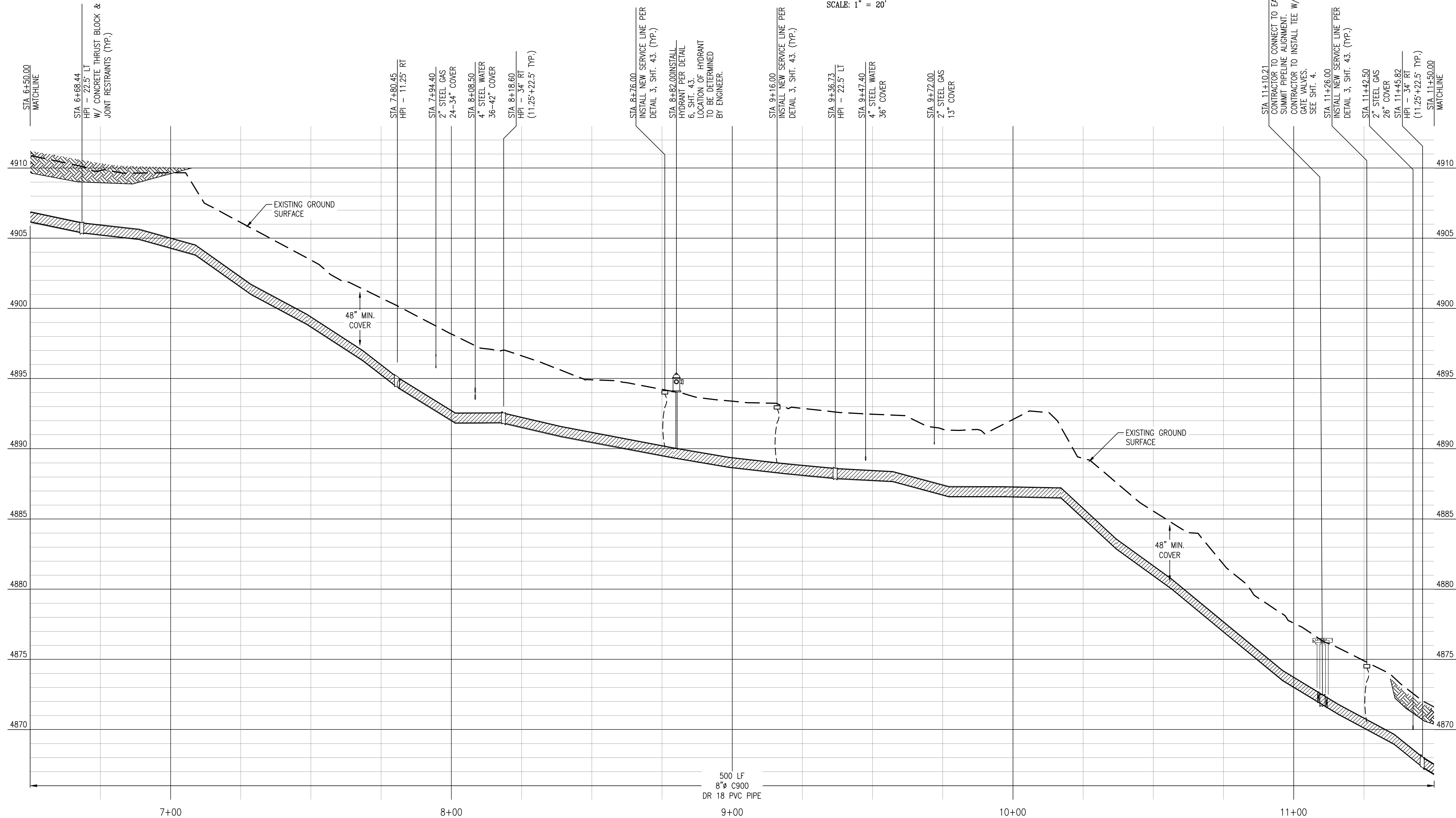
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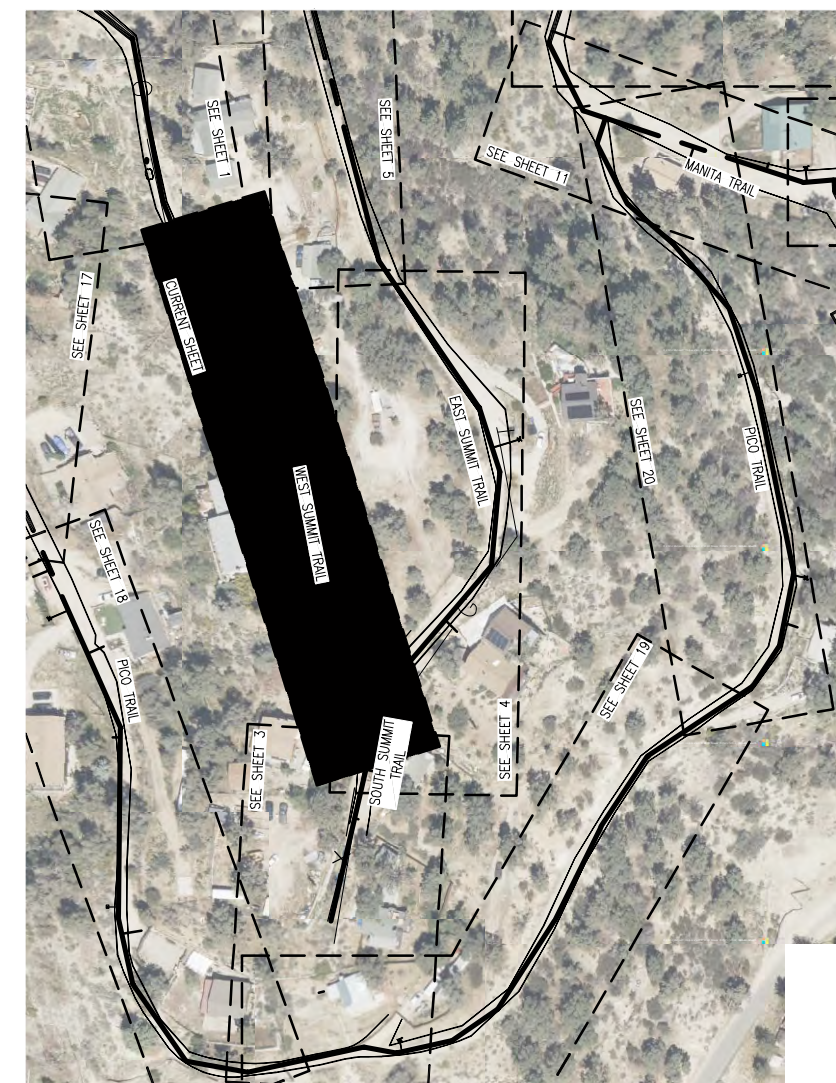
OF 46 SHEETS



PLAN VIEW
WEST SUMMIT TRAIL
SCALE: 1" = 20'



PROFILE VIEW
WEST SUMMIT TRAIL
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'



AERIAL VIEW

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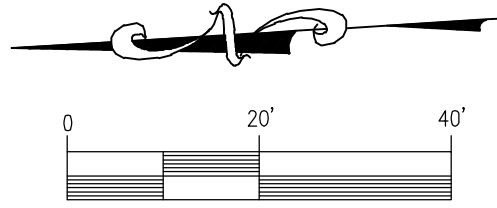
WEST SUMMIT - PLAN & PROFILE

PIPELINE REPLACEMENT PROJECT

FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

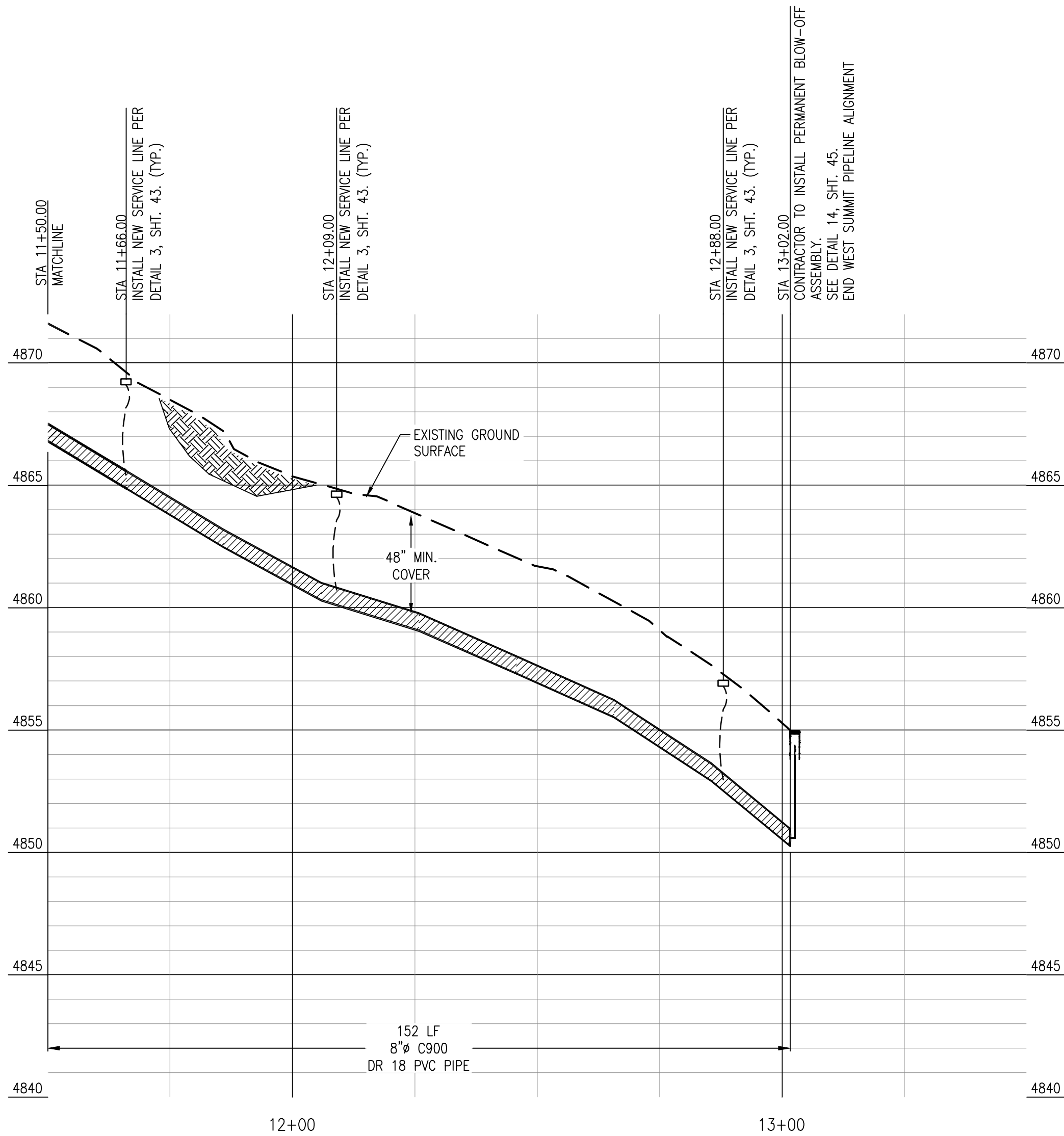
DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
2000 JASPAR BLVD
BAKERSFIELD, CALIFORNIA 93308
TEL: 805-333-4799
FAX: 805-333-4799
PORTERVILLE, CALIFORNIA 93257

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OF 46 SHEETS



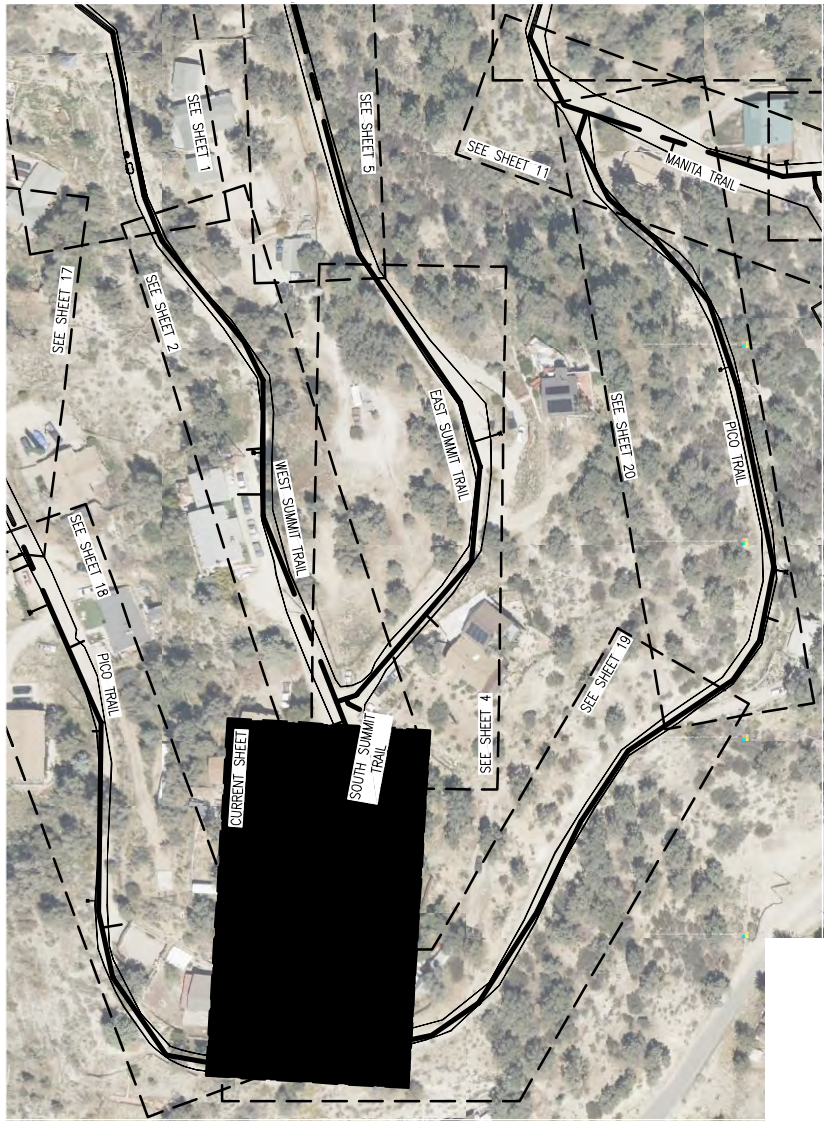
PLAN VIEW

SOUTH SUMMIT TRAIL
SCALE: 1" = 20'



PROFILE VIEW

SOUTH SUMMIT TRAIL
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'



AERIAL VIEW

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DEE JASPAR & ASSOCIATES, INC.
CIVIL ENGINEERS
2720 LINCOLN ROAD, BLDG. A
BAKERSFIELD, CALIFORNIA 93308
PHONE: (805) 393-4799
FAX: (805) 393-5299
PORTERVILLE, CALIFORNIA 93257
PHONE: (805) 783-9275
FAX: (805) 783-9275

SOUTH SUMMIT - PLAN & PROFILE

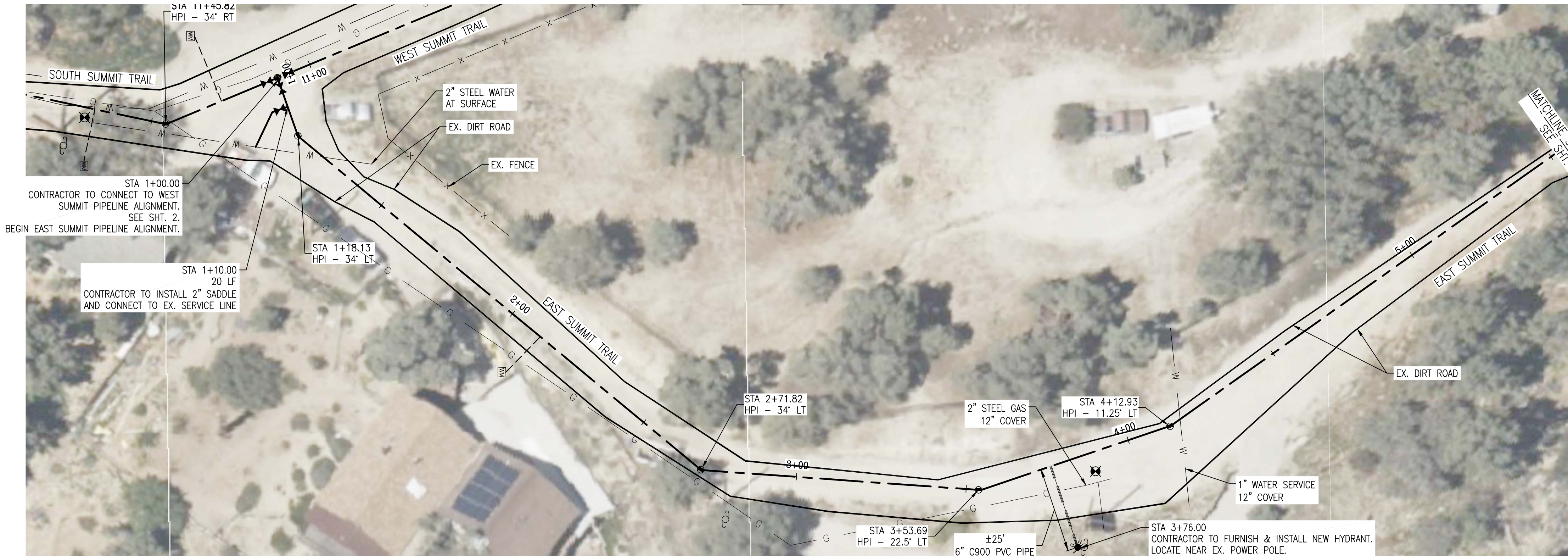
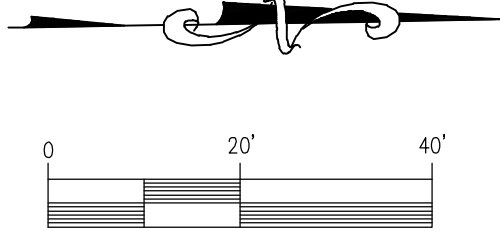
PIPELINE REPLACEMENT PROJECT

FRAZIER PARK PUBLIC UTILITY DISTRICT
KERN COUNTY, CALIFORNIA

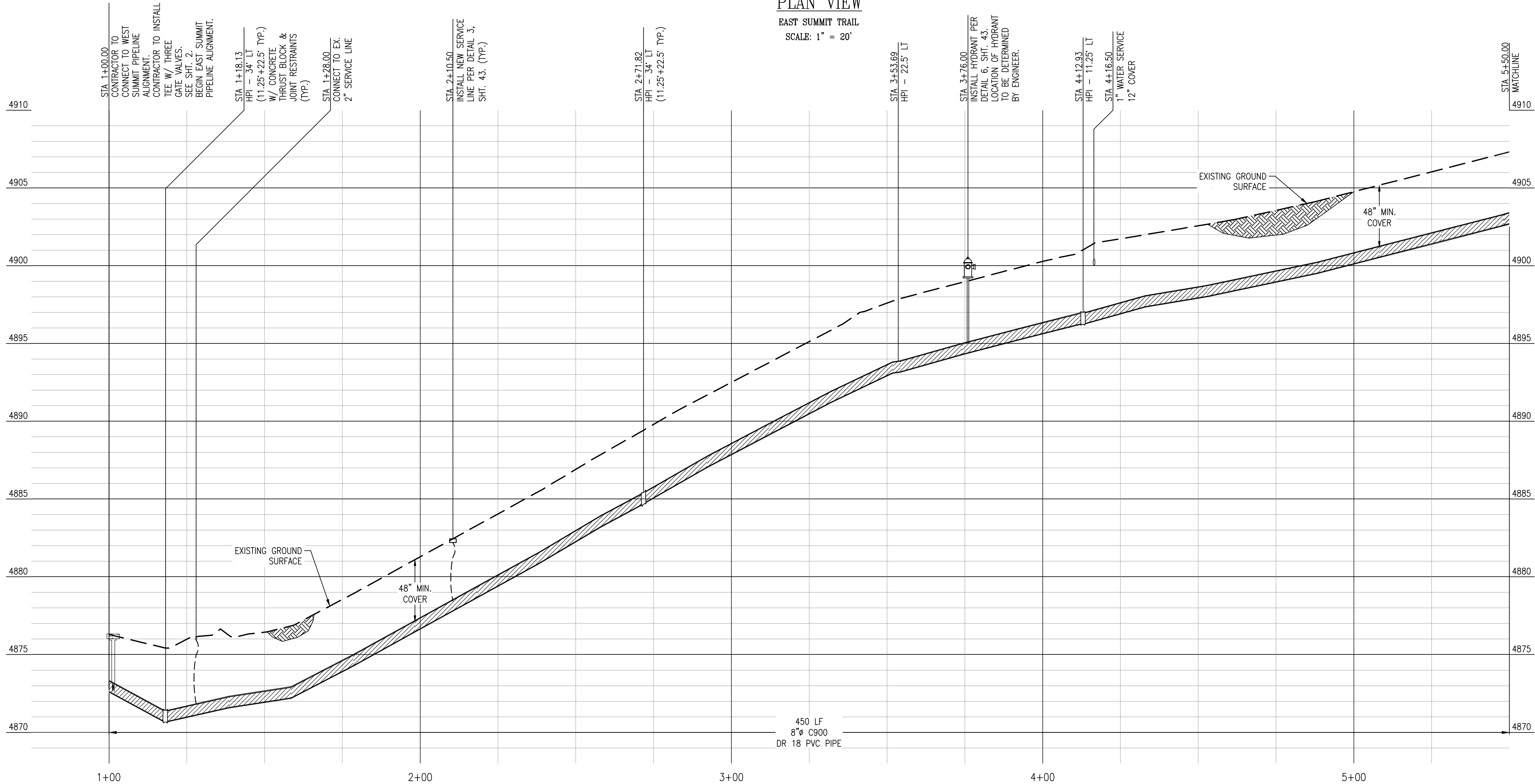
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CHECKED CMS
DATE AUG2023
SCALE AS SHOWN
JOB NO.
SHEET 3
OF 46 SHEETS



AERIAL VIEW



PLAN VIEW
EAST SUMMIT TRAIL
SCALE: 1" = 20'



PROFILE VIEW
EAST SUMMIT TRAIL
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'

REV.	DATE	DESCRIPTION	BY

DEE JASPAR & ASSOCIATES, INC.

CIVIL ENGINEERS

18000 JENSEN ROAD, SUITE 100

BAKERSFIELD, CALIFORNIA 93308

PHONE 805-333-4799

PHONE 805-393-4799

FAX 805-393-9275

EAST SUMMIT - PLAN & PROFILE

PIPELINE REPLACEMENT PROJECT

FRAZIER PARK PUBLIC UTILITIES DISTRICT

KERN COUNTY, CALIFORNIA

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