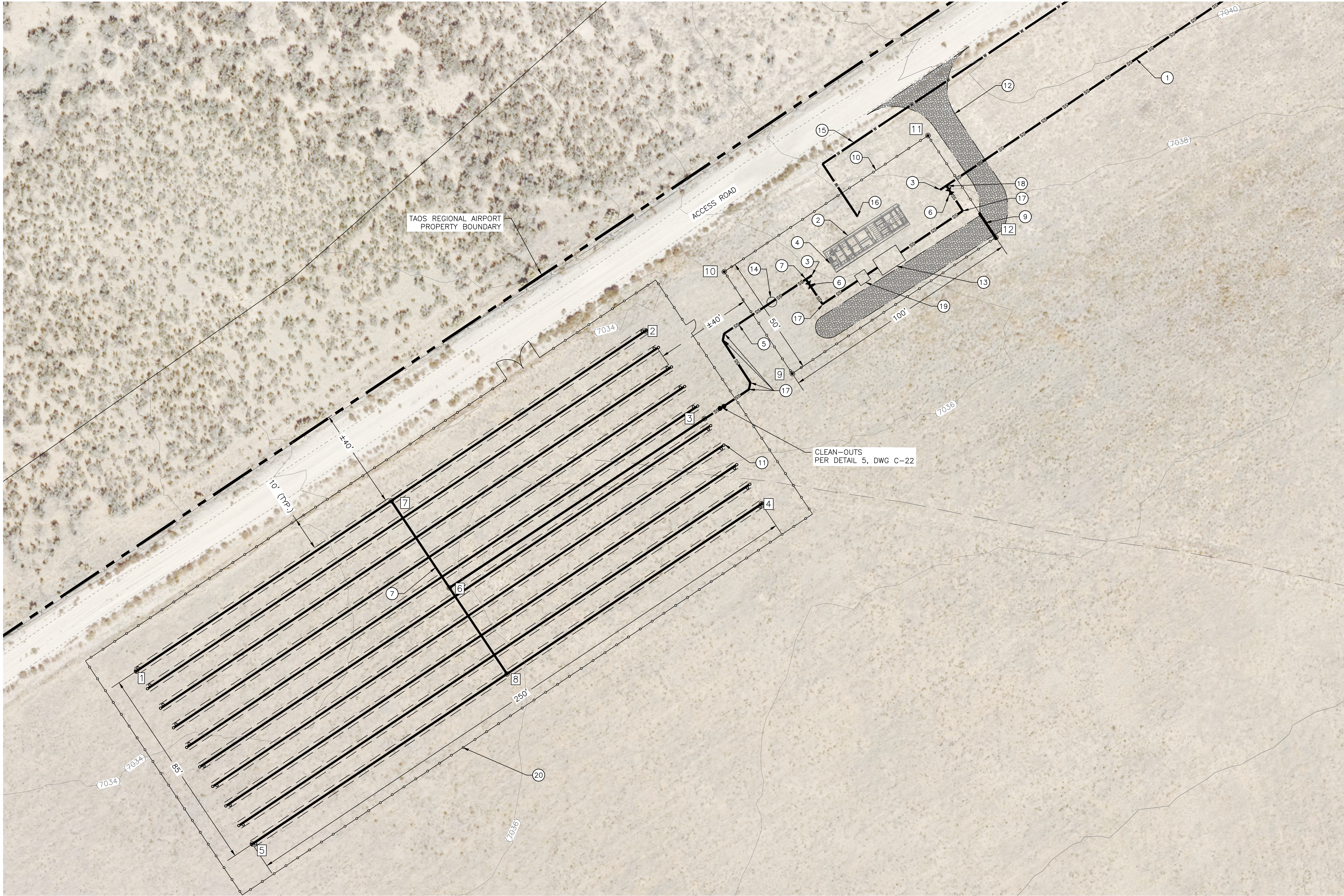


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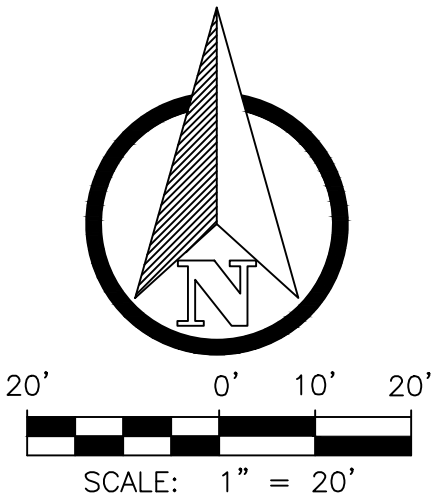
GENERAL NOTES:

1. MINIMUM BURIAL SHALL BE 3' TO TOP OF PIPE

KEY NOTES:

- ① 3" SDR 11 HDPE LPSS LINE
- ② 10,000 GPD EXTENDED AERATION WWTP PER DETAIL 1, DWG C-24. FUTURE (BY OTHERS)
- ③ STUB OUT 5 FT. MIN AND CAP FOR FUTURE CONNECTION TO WWTP
- ④ 6" BLIND FLANGE OUTLET PIPE CONNECTION REDUCED AND CONNECT TO EFFLUENT PIPE
- ⑤ 2" PVC EFFLUENT PIPE TO LEACH FIELD
- ⑥ GATE VALVE
- ⑦ 2" PVC TEE
- ⑧ 1-1/4" PVC PERF. DISTRIBUTION PIPE WITH 1/8" ORIFICES.
- ⑨ VEHICLE GATE AS PER DETAILS 1 AND 2, DWG C-19
- ⑩ 8' HIGH SECURITY FENCE PER DETAILS 1 AND 2, DWG. C-19
- ⑪ LEACH FIELD AS PER DETAIL 1, DWG C-22
- ⑫ GRADE AND COMPACT ROAD AND PROVIDE 3" AGGREGATE BASE COURSE, 16' WIDE
- ⑬ SEPTIC TANK, PER DETAIL 3 AND 4, DWG. C-23
- ⑭ ULTRASONIC FLOW METER IN VAULT PER DETAIL 5, DRAWING C-23
- ⑮ 1" HDPE WATER LINE
- ⑯ YARD HYDRANT PER DETAIL 3, DWG C-19
- ⑰ 45 DEG ELBOW
- ⑱ 3" HDPE TEE
- ⑲ EFFLUENT PUMPING STATION PER DETAILS 1, 2, DWG C-23
- ⑳ FENCE, 4' MAN GATE AND 18' VEHICLE GATE PER DETAIL 2, DWG-18

Point Table			
Point #	Northing	Easting	Description
①	1986758.21	1807319.32	LEACH FIELD
②	1986898.33	1807526.37	LEACH FIELD
③	1986862.64	1807550.55	2" SCH 40 PVC
④	1986828.01	1807574.12	LEACH FIELD
⑤	1986687.90	1807367.08	2" SCH 40 PVC
⑥	1986792.98	1807446.90	2" SCH 40 PVC TEE
⑦	1986828.35	1807422.96	2" SCH 40 PVC
⑧	1986757.96	1807470.60	LEACH FIELD
⑨	1986867.41	1807583.67	FENCE CORNER
⑩	1986908.82	1807555.65	FENCE CORNER
⑪	1986964.86	1807638.47	FENCE CORNER
⑫	1986923.45	1807666.49	FENCE CORNER



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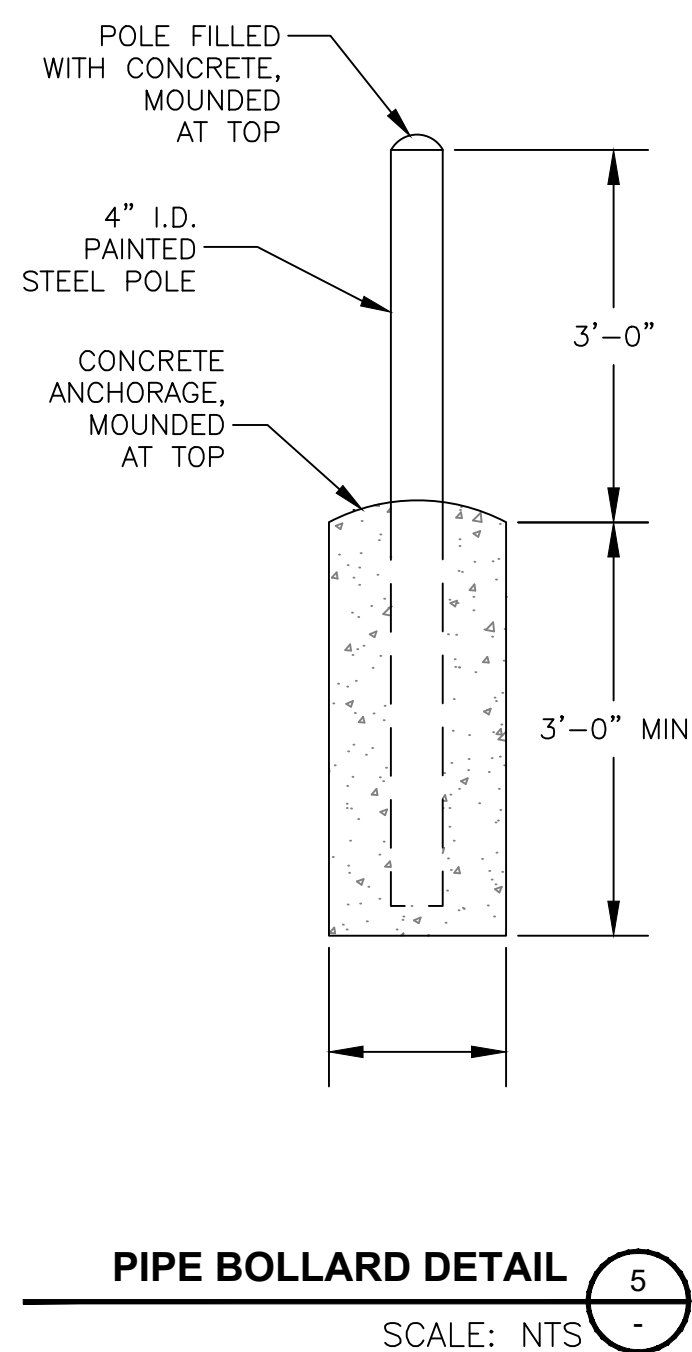
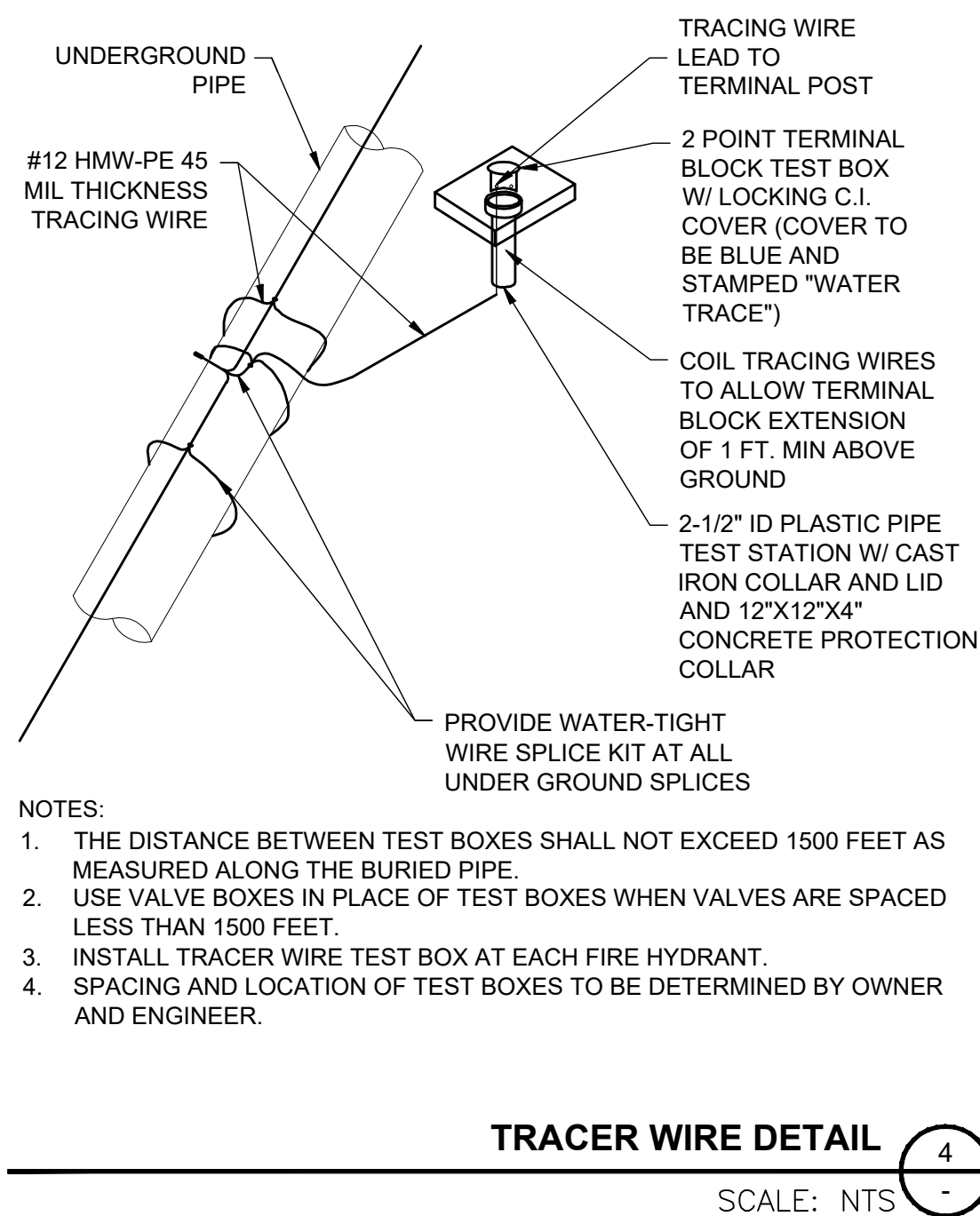
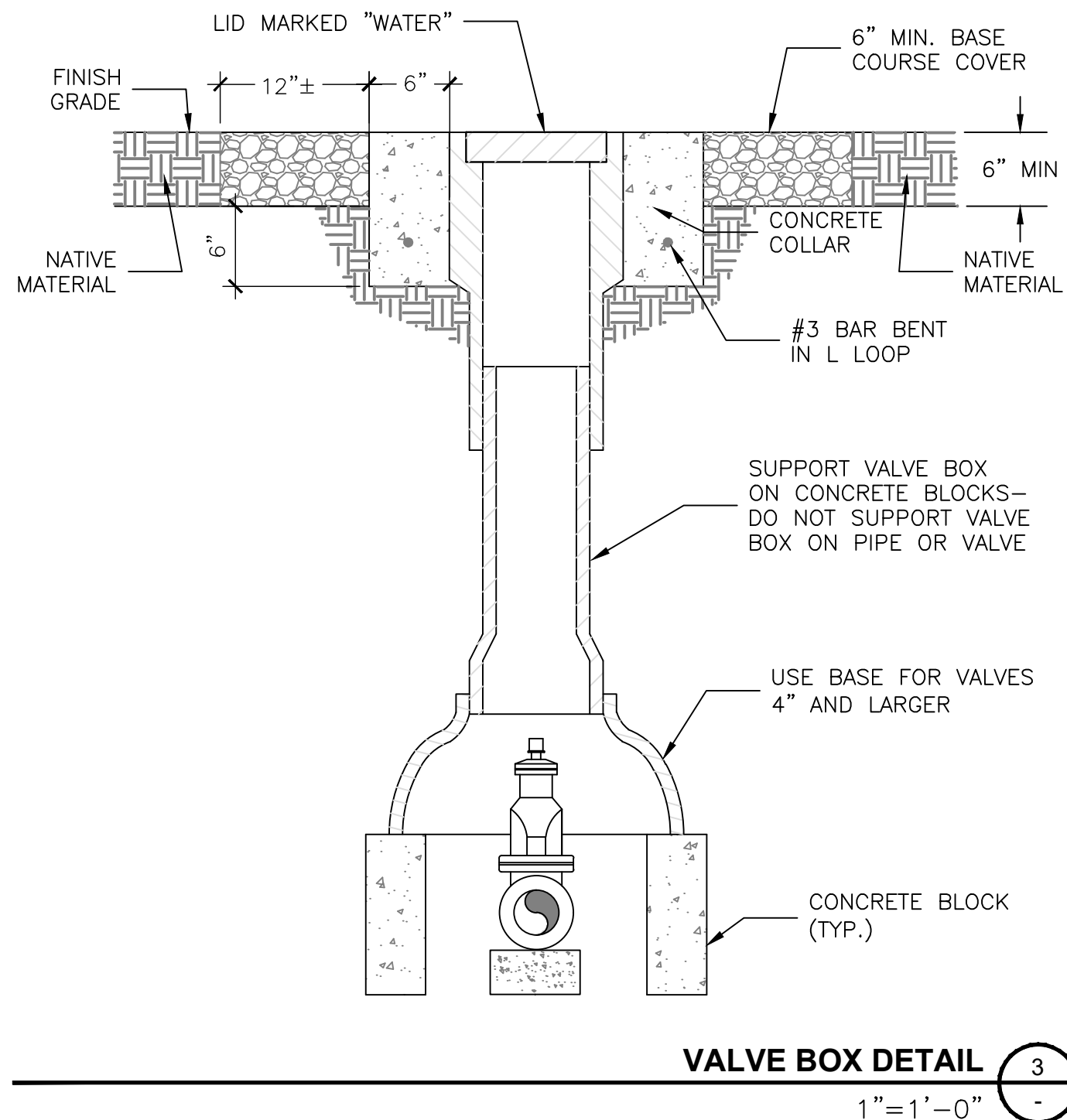
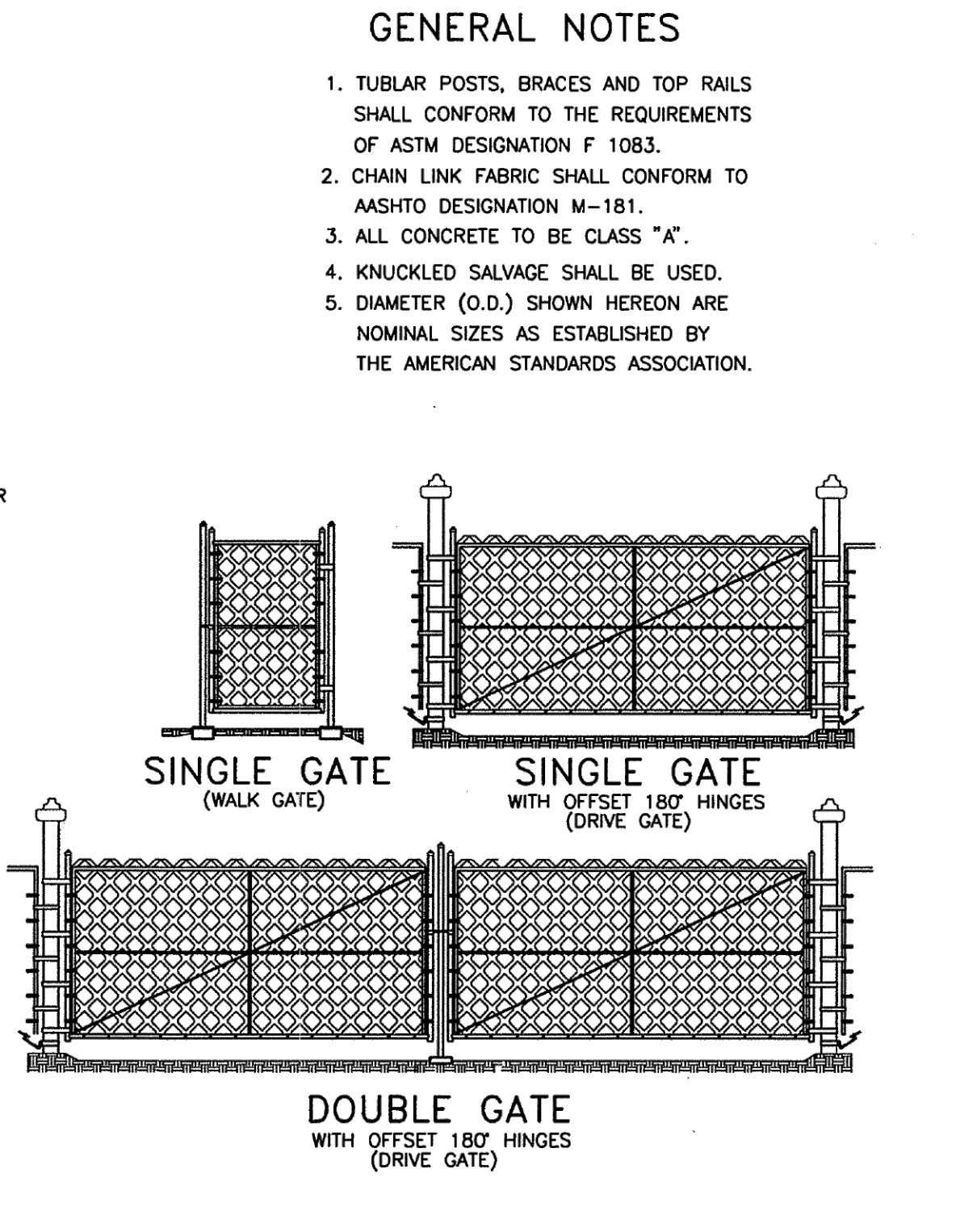
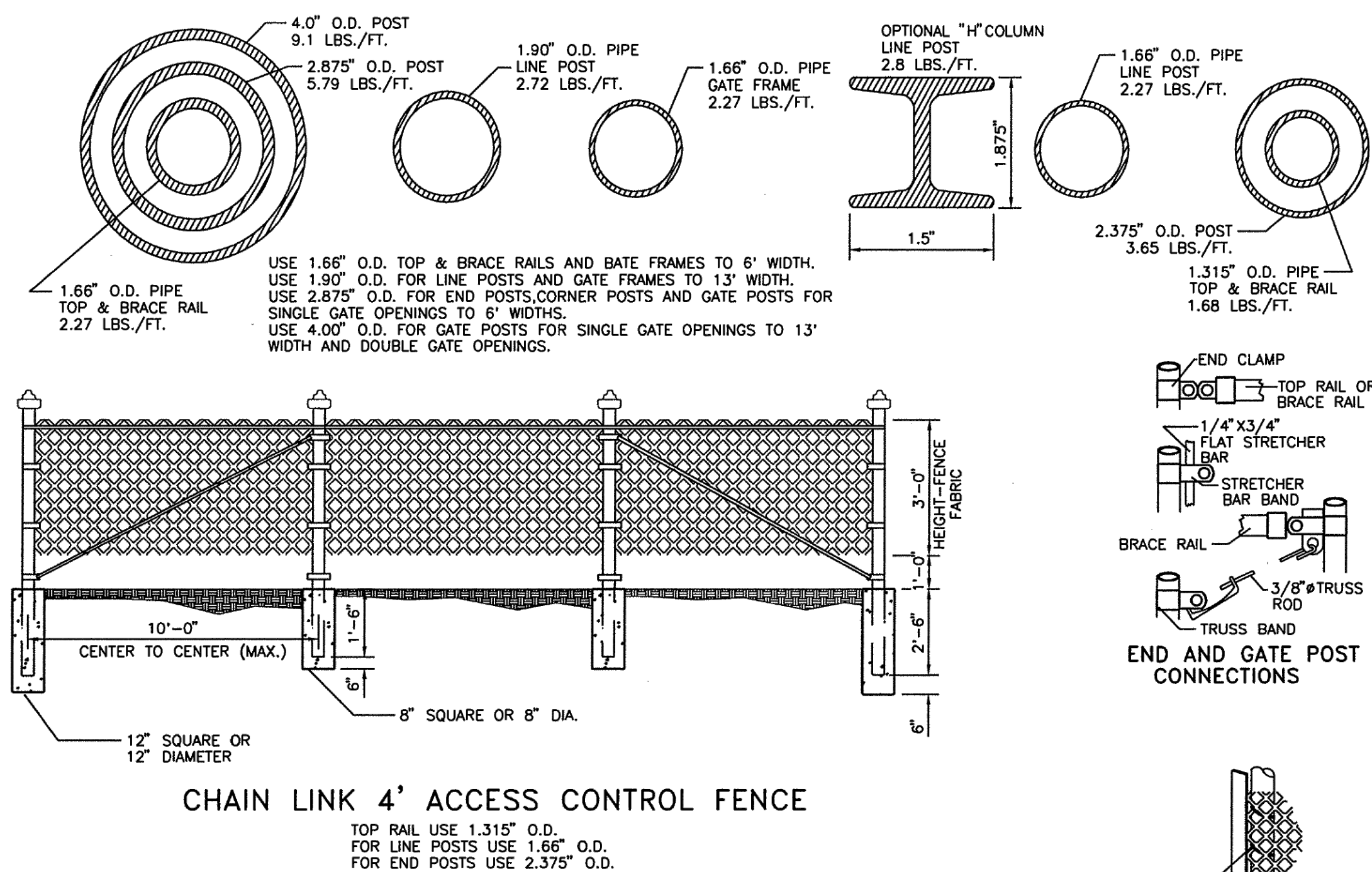
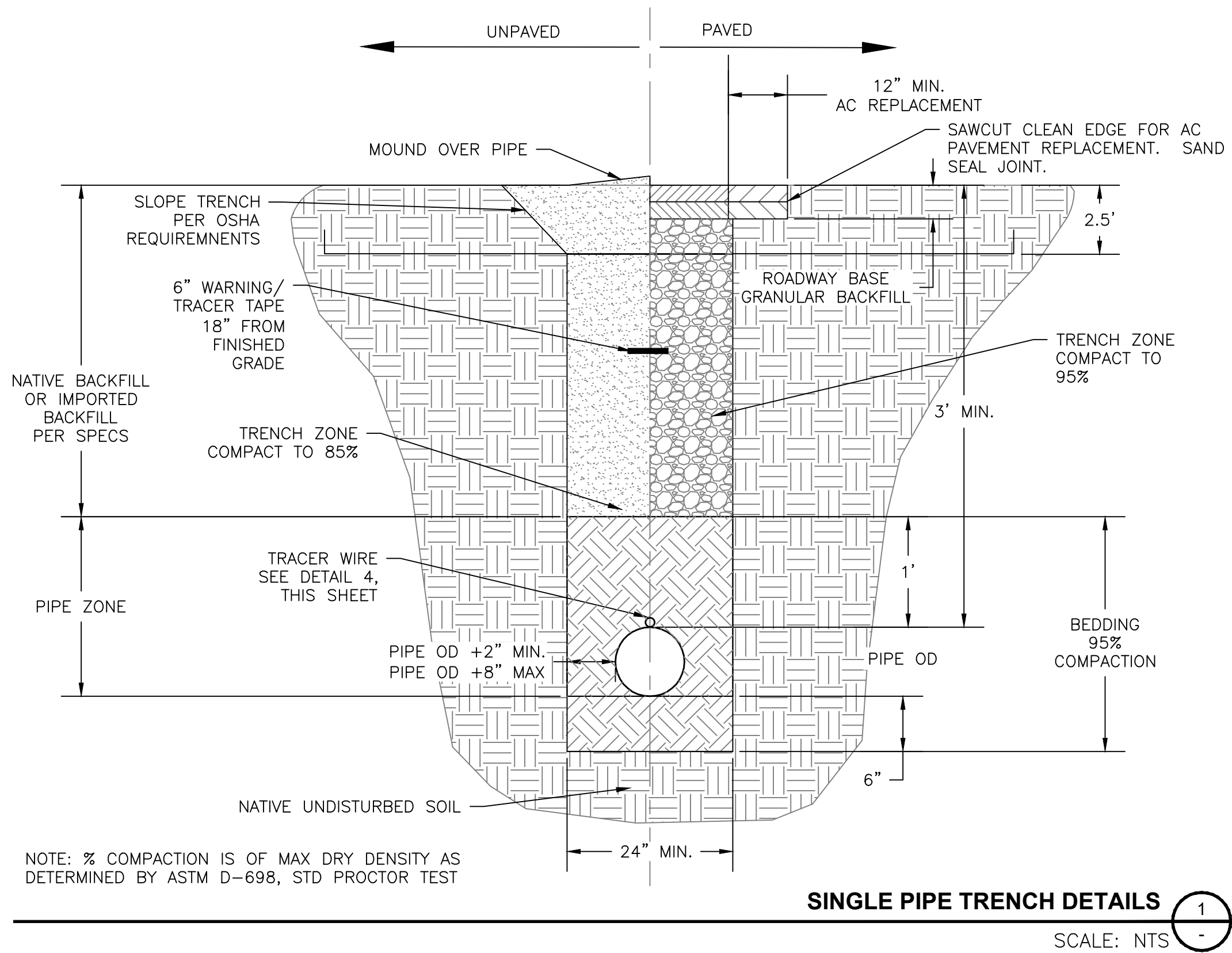
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TAOS COUNTY, NEW MEXICO
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TAOS REGIONAL AIRPORT WATER
AND WASTEWATER UTILITIES
TAOS COUNTY, NM
WWTP & LEACH FIELD SITE PLAN

SHEET21 OF 33
DWG NO. C-17

JOB NO.
DB21.1270

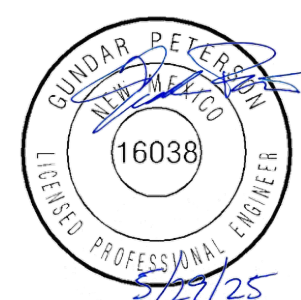
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4' ACCESS CONTROL FENCE DETAIL 2
SCALE: NTS

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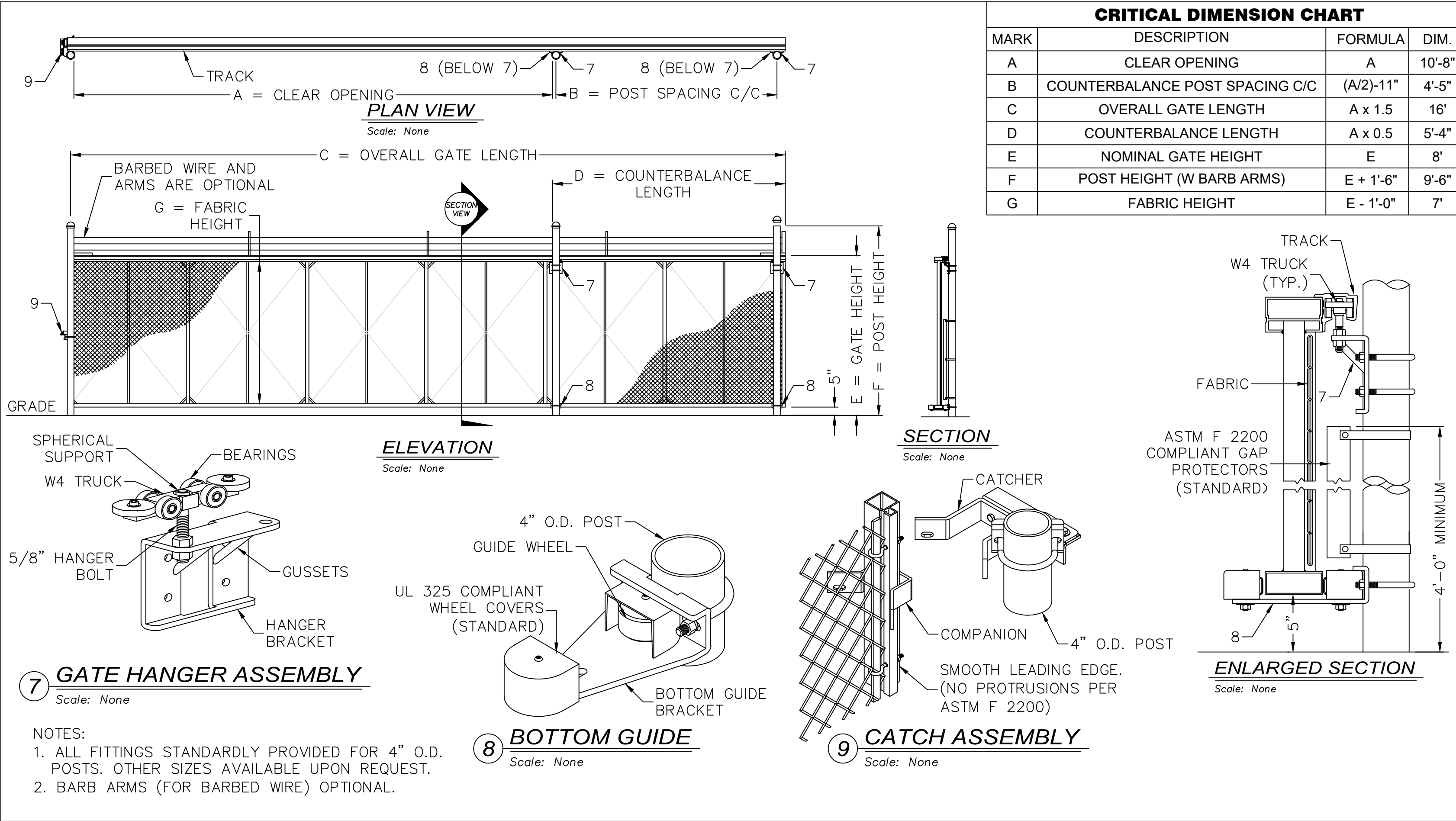
TAOS REGIONAL AIRPORT WATER
AND WASTEWATER UTILITIES
TAOS COUNTY, NM

CIVIL DETAILS 1

SHEET 22 OF 33
DWG NO. C-18

JOB NO.
DB21.1270

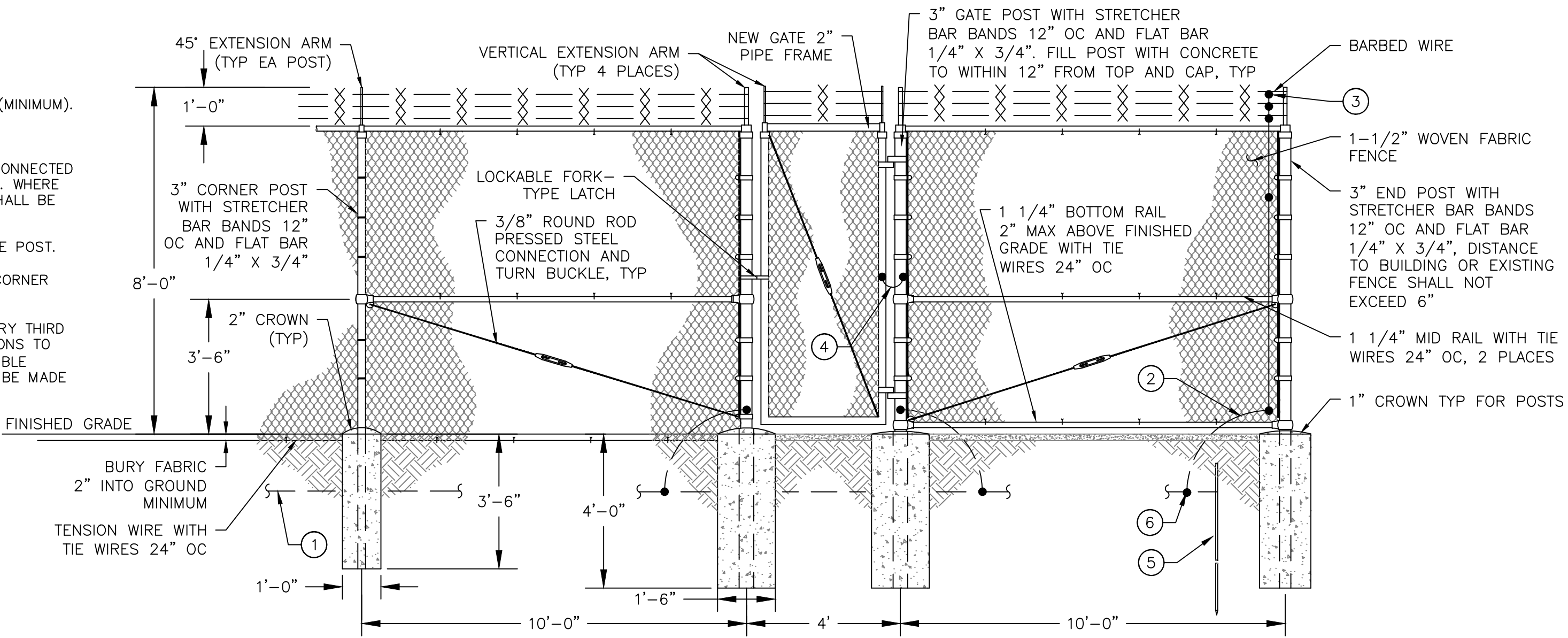
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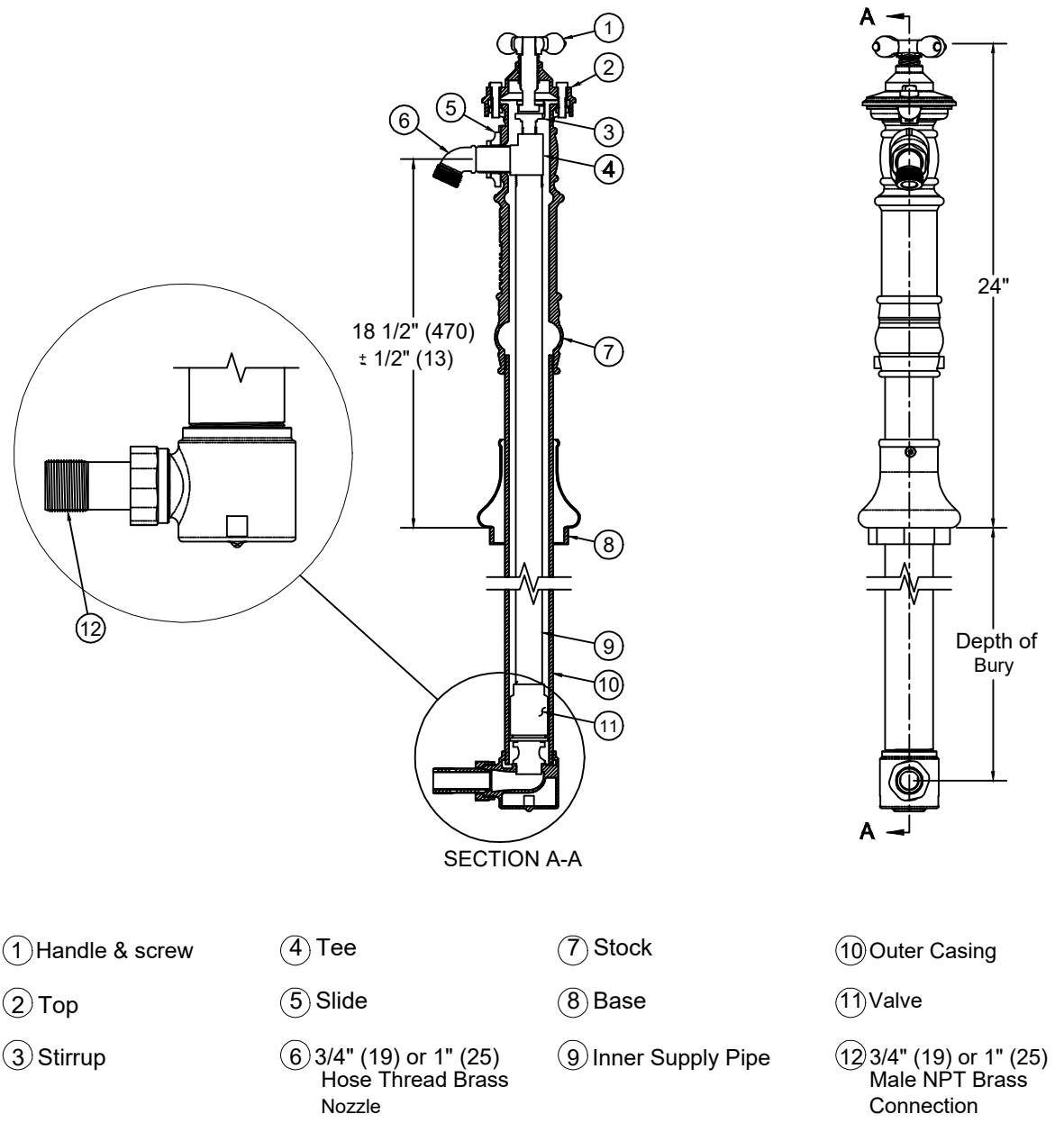
CHAIN LINK SLIDE GATE DETAIL 1
NTS

GROUNDING NOTES

- NO. 2/0 BARE COPPER GROUND CONDUCTOR BURIED 18" (MINIMUM).
- NO. 2/0 BARE COPPER JUMPER.
- NO. 6 BARE COPPER RISER INTERWOVEN IN FABRIC AND CONNECTED TO BARBED WIRE STRANDS AND TO FABRIC AT ONE POINT. WHERE TWO OR MORE GATES ARE PROVIDED, THE NO. 6 RISER SHALL BE INSTALLED IN EACH SECTION BETWEEN GATES.
- FLEXIBLE BRAID BRAZED OR STRAPPED TO GATE AND GATE POST.
- 5/8" X 10.0' COPPER CLAD GROUND ROD INSTALLED AT CORNER POST AND AT 100.0' (MAX) INTERVALS ALONG FENCE.
- FENCE TO BE GROUNDED AT EACH CORNER POST, AT EVERY THIRD POST AND AT ALL GATE POSTS. UNDERGROUND CONNECTIONS TO BE FUSION WELDED (CADWELDED) OR LISTED NON-REVERSIBLE COMPRESSION FITTINGS. ABOVE GROUND CONNECTIONS TO BE MADE WITH CONNECTORS OR STRAPS.



TYPICAL SECURITY FENCE WITH MANWAY DETAIL 2
NTS



- 1 Handle & screw
2 Top
3 Stirrup
4 Tee
5 Slide
6 3/4" (19) or 1" (25) Hose Thread Brass Nozzle
7 Stock
8 Base
9 Inner Supply Pipe
10 Outer Casing
11 Valve
12 3/4" (19) or 1" (25) Male NPT Brass Connection

YARD HYDRANT 3
NTS

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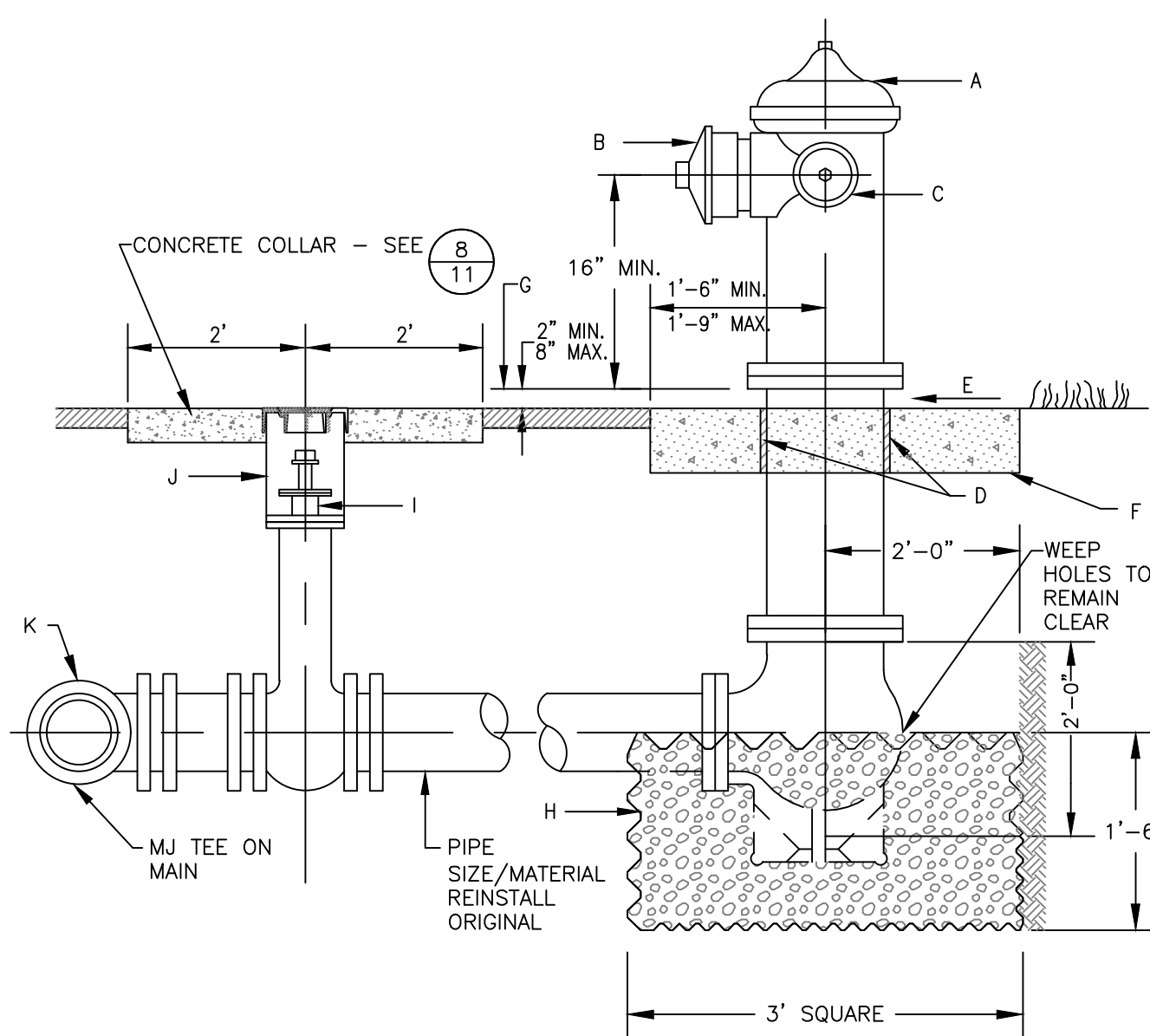
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AND WASTEWATER UTILITIES
TAOS COUNTY, NM

CIVIL DETAILS 2

SHEET 23 OF 33
DWG NO. C-19

JOB NO.
DB21.1270

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GENERAL NOTES:

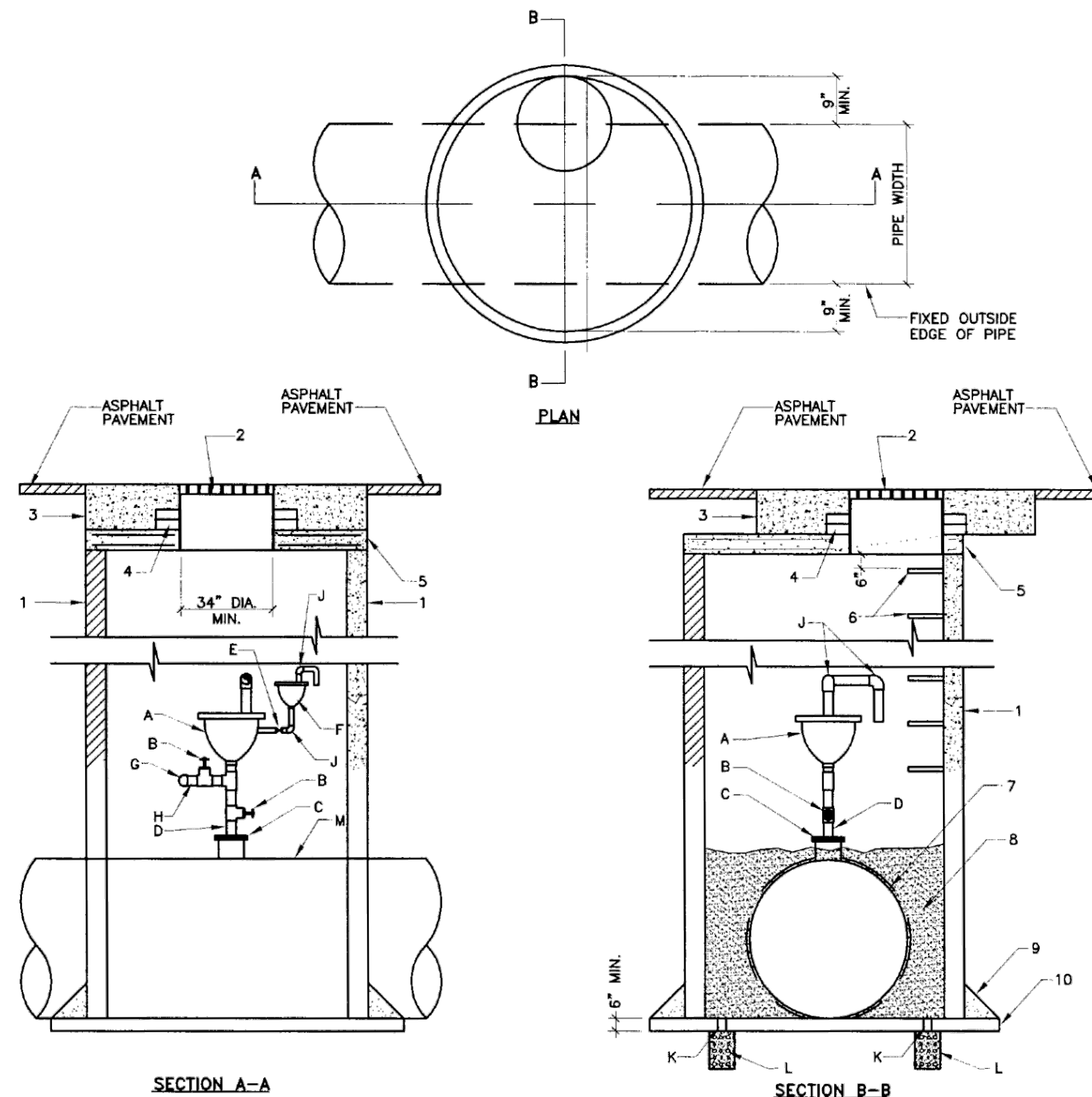
1. NO OBSTRUCTIONS SHALL BE PERMITTED WITHIN 3 FT. OF FIRE HYDRANT.
2. PUMPER NOZZLE TO BE SET FACING THE TRAVELED WAY, UNLESS OTHERWISE NOTED ON PLANS, OR AS DIRECTED BY THE ENGINEER.
3. ALL JOINTS TO BE MECHANICALLY RESTRAINED AS PER TABLE, THIS SHEET.

CONSTRUCTION NOTES:

- A. FIRE HYDRANT INSTALL.
- B. PUMPER NOZZLE 4 1/2".
- C. HOSE NOZZLE 2 1/2".
- D. 1/2" EXPANSION JOINT MATERIAL.
- E. SLOPE 1/4" PER FT.
- F. 3' X 3' X 6" CONC. SQ. PAD, TO BE CONSTRUCTED AROUND FIRE HYDRANT'S CENTER LINE WHEN NOT LOCATED WITHIN SIDEWALK OR CONC. AREA. FH PAD MAY BE POURED W/VALVE PAD AS ONE UNIT.
- G. CONTROLLED ELEV. LINE, LEVEL IN ALL DIRECTIONS.
- H. GRAVEL DRAIN POCKET, COVER TOP SURFACE WITH TAR PAPER.
- I. VALVE WILL BE CONNECTED TO TEE AT MAIN VALVE PER SPECS.
- J. VALVE BOX PER SPECS.
- K. MAIN WATER LINE.
- L. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH NOT LESS THAN 3500 PSI @ 28 DAYS, HAND PLACED. A MAXIMUM OF 520 LBS/CY PORTLAND CEMENT/CONCRETE WILL BE USED. A MAXIMUM WATER TO CEMENT/FINE AGGREGATE RATIO OF 0.45 IS REQUIRED. CEMENT SHALL BE TYPE I OR TYPE II.

FIRE HYDRANT DETAIL

NTS



MATERIALS LIST

NOTE: ALL PIPING AND FITTINGS SHALL BE SCH. 40 THREADED GALVANIZED STEEL. SIZE IS DETERMINED BY SPECIFIC AIR/VACUUM RELEASE VALVE TO BE INSTALLED.

- A COMBINATION AIR AND VACUUM RELEASE VALVE, SIZE AS SHOWN ON PLAN.
- B GATE VALVE, SAME SIZE AS COMBINATION AIR AND VACUUM RELEASE VALVE INLET.
- C MINIMUM 6" FLANGE NOZZLE OR FLANGE TAPPING SADDLE. PROVIDE BLIND FLANGE TAPPED FOR THREADED NIPPLE WHERE AIR/VAC VALVE IS SHOWN TO BE LESS THAN 6".
- D CAST IRON NIPPLE.
- E 1" BALL VALVE.
- F 1" AIR RELEASE VALVE.
- G THREADED CAP.
- H THREADED NIPPLE FOR VENT AND HOSE CONNECTION.
- J 90° ELBOW.
- K 4" DIA. SCHEDULE 40 PVC PIPE SLEEVE THROUGH MANHOLE BASE.
- L 12"x12"x18" DEEP 1" CLEAN GRAVEL ASTM C33, NO. 57 GRAVEL.
- M WATER MAIN.

CONSTRUCTION NOTES:

- 1 MANHOLE MAY BE CONSTRUCTED OF CONCRETE BLOCK, GR, MS BRICK, POURED CONCRETE, OR PRECAST REINFORCED CONCRETE. IF BLOCK OR BRICK, PLASTER INSIDE AND OUT WITH 1/2" MORTAR. SEE DWG 2101.
- 2 USE 36" MH FRAME AND COVER. COVER MARKED "WATER".
- 3 CONCRETE COLLAR PER STD. DWG. 2461.
- 4 USE ADJUSTMENT RINGS OR MAX. 2 COURSES OF MS BRICK FOR ADJUSTMENT OF MH FRAME TO PAVEMENT GRADE.
- 5 PRECAST CONCRETE COVER. SEE DWG 2107, EXCEPT OPENING SHALL BE 34" DIAMETER MINIMUM.
- 6 STEPS TO BE INSTALLED PER STD SPEC SEC 920.
- 7 CUT MANHOLE TO PROVIDE A 4" CLEARANCE AROUND WATER MAIN
- 8 1" CLEAN GRAVEL TO TOP OF MAIN.
- 9 6" GROUT FILLET AROUND BASE
- 10 CONCRETE BASE TO BE POURED IN PLACE USING #4 BARS AT 12" OC EACH WAY.

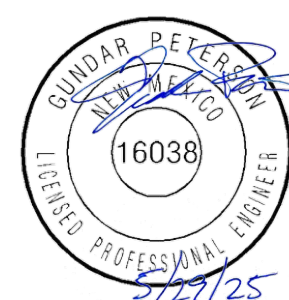
REVISIONS	NM APWA
	WATER
	AIR/VACUUM RELEASE VALVE
	DWG. 2350 FEB. 2006

AIR/VACUUM RELEASE VALVE DETAIL

NTS

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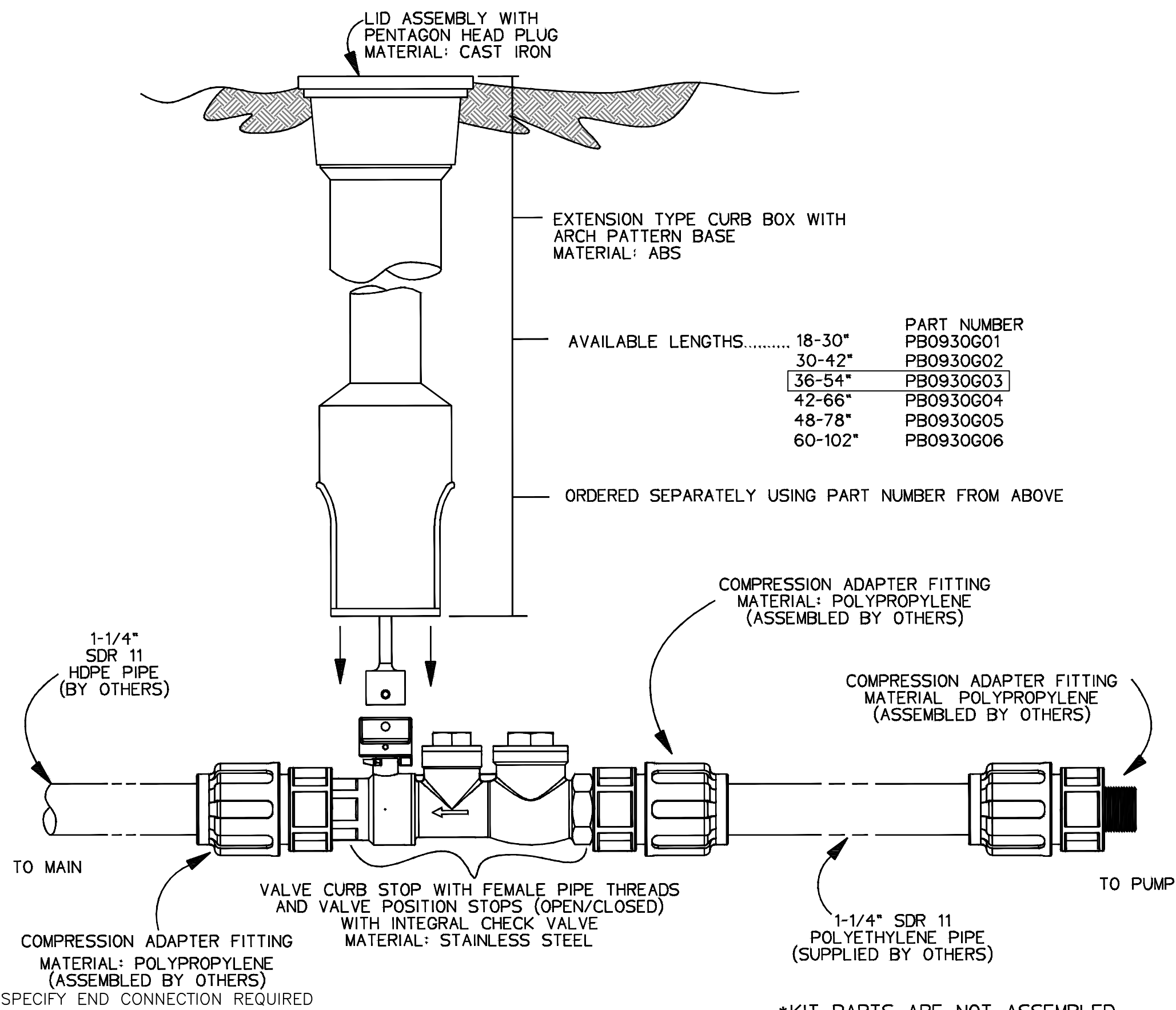
TAOS REGIONAL AIRPORT WATER
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TAOS COUNTY, NM

CIVIL DETAIL 3

SHEET 24 OF 33
DWG NO. C-20

JOB NO.
DB21.1270

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- NOTES:**
- 1 SS CURB STOP/CHECK VALVE AND FITTINGS ARE PROVIDED SEPARATELY; TO BE ASSEMBLED BY OTHERS
 2. TO ASSEMBLE, APPLY A DOUBLE LAYER OF TEFLON TAPE, AND A LAYER OF PIPE DOPE (SUPPLIED BY OTHERS) TO THE THREADS ON THE PLASTIC FITTINGS AND INSTALL PER THE MANUFACTURER'S INSTRUCTIONS
 - *FOR SS FITTING INTO SS THREAD, USE PIPE DOPE OR TEFLON TAPE, NOT BOTH
 3. ASSEMBLY IS TO BE PRESSURE TESTED (BY OTHERS)
 4. ASSEMBLY IS TO BE USED WITH SDR11 HOPE PIPE
 5. TO ORDER SS LATERAL KIT, USE PART NUMBER NCO193G01
 6. CURB BOX IS TO BE ORDERED SEPARATELY, SEE ABOVE

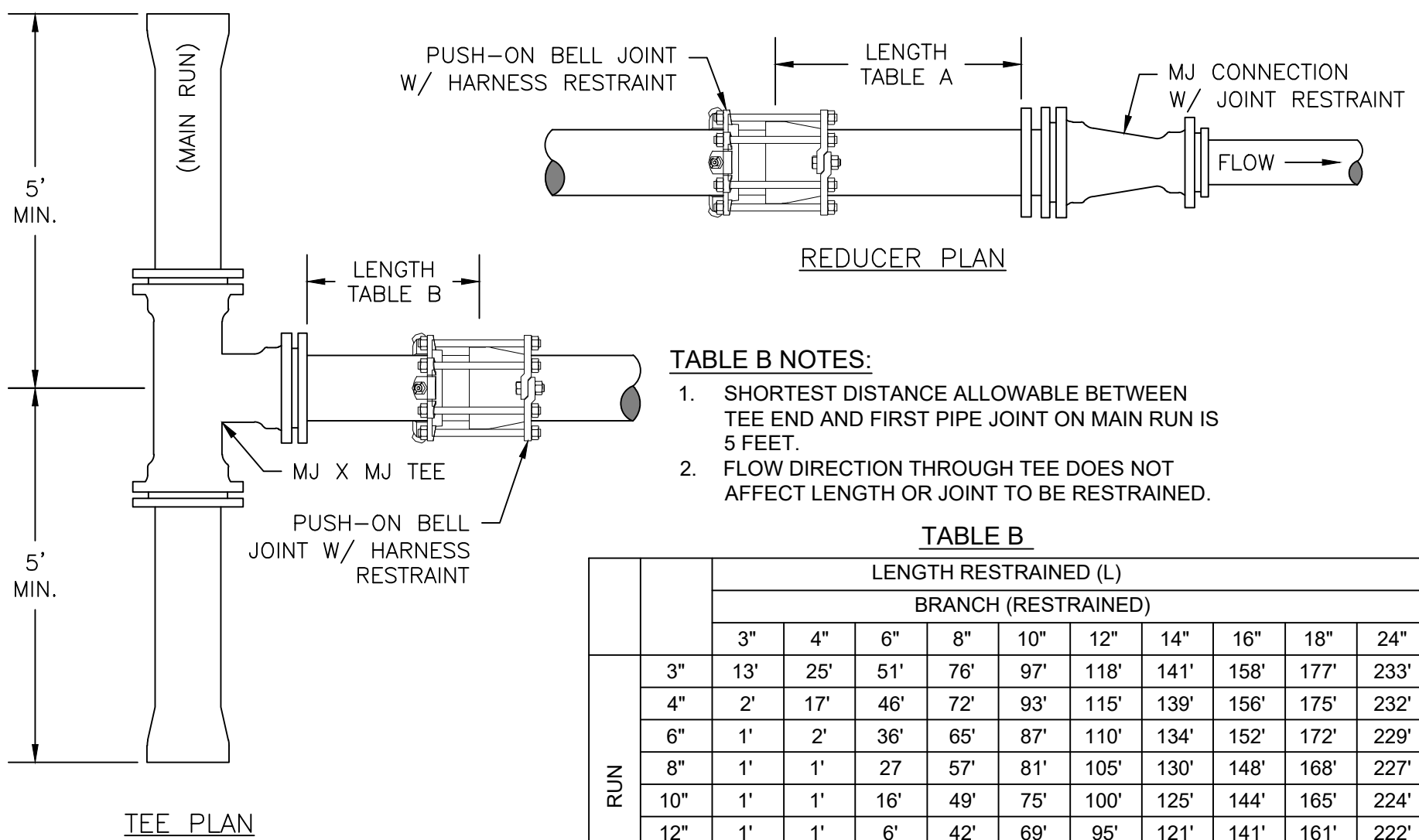
STAINLESS STEEL LATERAL KIT 1
NTS

		LENGTH RESTRAINED (L)										
		LARGE										
SMALL	3"	3"	4"	6"	8"	10"	12"	14"	16"	18"	24"	
	4"		15'	45'	72'	93'	115'	138'	156'	175'	231'	
	6"			35'	64'	87'	110'	134'	152'	171'	229'	
	8"				37'	65'	92'	118'	138'	159'	220'	
	10"					36'	67'	96'	120'	143'	208'	
	12"						37'	70'	98'	123'	193'	
	14"							38'	70'	99'	175'	
	16"								38'	70'	154'	
	18"									38'	129'	

- GENERAL DESIGN RESTRAINT NOTES:**
1. BASIS OF DESIGN - EBAA IRON
 2. PIPE MATERIAL: PVC
 3. SOIL TYPE: SC, CLAYEY SAND, SANDY CLAY
 4. TRENCH TYPE: 4
 5. TEST PRESSURE: 250 PSI
 6. FACTOR OF SAFETY: 1.5 TO 1
 7. DEPTH OF BURY: 4 FEET UNLESS OTHERWISE STATED
 8. ALL JOINTS WITHIN LENGTHS ARE TO BE RESTRAINED
 9. RESTRAINTS SHALL BE THE EBAA IRON SERIES 1800 OR ENGINEER APPROVED EQUAL MECHANICAL JOINT RESTRAINTS TO BE USED ON ALL CONNECTIONS AND FITTINGS.

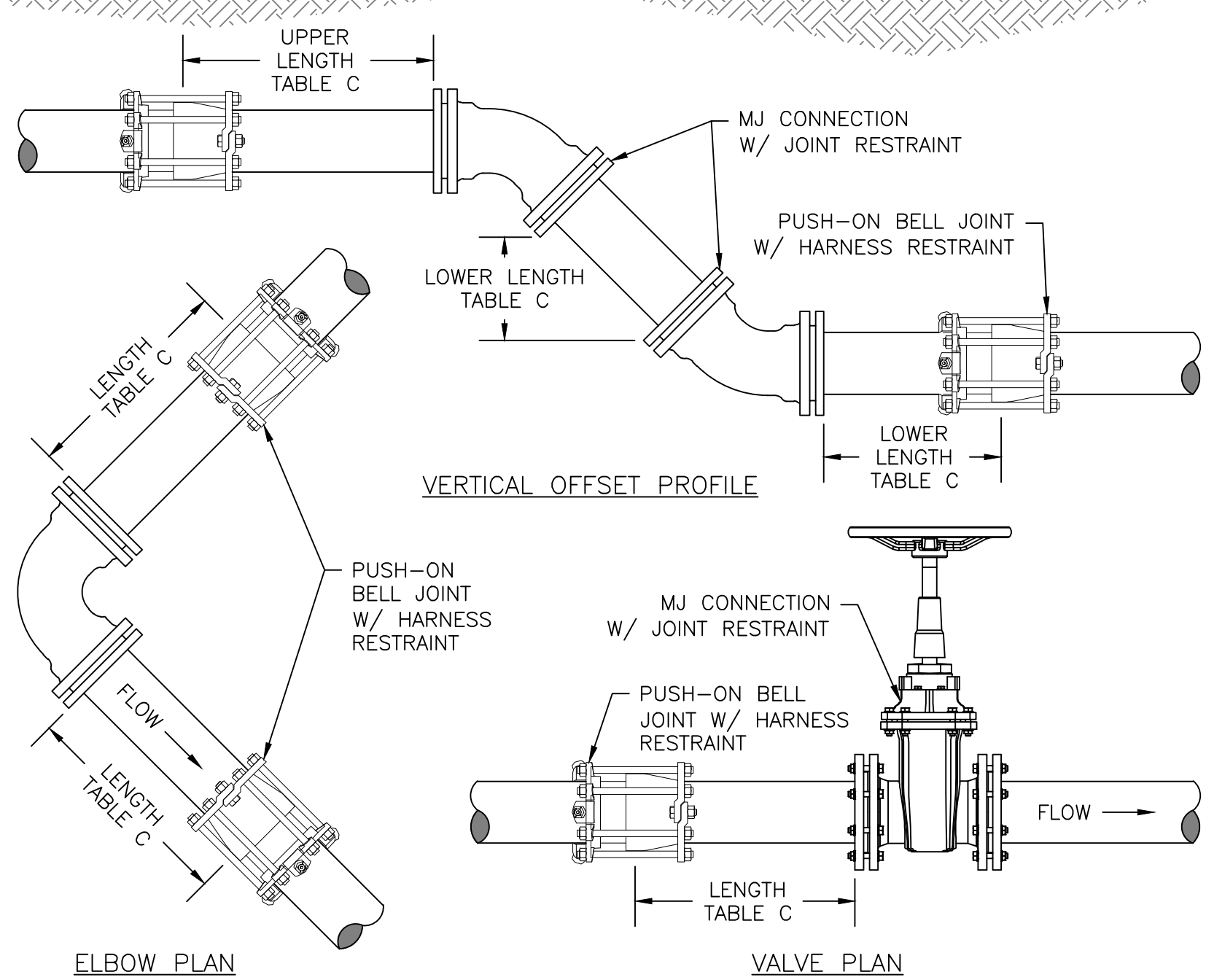
TABLE A NOTES:

1. FLOW FROM LARGE SIZE TO SMALL SIZE PIPE.



		LENGTH RESTRAINED (L)										
		BRANCH (RESTRAINED)										
RUN	3"	3"	4"	6"	8"	10"	12"	14"	16"	18"	24"	
	4"	13'	25'	51'	76'	97'	118'	141'	158'	177'	233'	
	6"	2'	17'	46'	72'	93'	115'	139'	156'	175'	232'	
	8"	1'	2'	36'	65'	87'	110'	134'	152'	172'	229'	
	10"	1'	1'	27'	57'	81'	105'	130'	148'	168'	227'	
	12"	1'	1'	16'	49'	75'	100'	125'	144'	165'	224'	
	14"	1'	1'	6'	42'	69'	95'	121'	141'	161'	222'	
	16"	1'	1'	1'	35'	63'	90'	117'	137'	158'	219'	
	18"	1'	1'	1'	25'	56'	84'	111'	132'	154'	216'	
	24"	1'	1'	1'	17'	49'	78'	106'	128'	150'	213'	

LENGTH TO BE RESTRAINED (L)								
	90° HORIZ. ELBOW	45° HORIZ. ELBOW	22 1/2° HORIZ. ELBOW	11 1/4° HORIZ. ELBOW	45° VERT. OFFSET 3.5' TO 5.0'	22 1/2° VERT. OFFSET 3.5' TO 5.0'	11 1/4° VERT. OFFSET 3.5' TO 5.0'	DEAD END/ IN-LINE VALVE
3"	16'	7'	3'	2'	UPPER-23' LOWER-7'	UPPER-11' LOWER-4'	UPPER-6' LOWER-2'	43'
4"	17'	7'	4'	2'	UPPER-25' LOWER-8'	UPPER-12' LOWER-4'	UPPER-6' LOWER-2'	47'
6"	24'	10'	5'	3'	UPPER-35' LOWER-11'	UPPER-17' LOWER-5'	UPPER-9' LOWER-3'	67'
8"	31'	13'	7'	4'	UPPER-46' LOWER-14'	UPPER-22' LOWER-7'	UPPER-11' LOWER-4'	88'
10"	37'	16'	8'	4'	UPPER-55' LOWER-17'	UPPER-27' LOWER-8'	UPPER-13' LOWER-4'	106'
12"	44'	18'	9'	5'	UPPER-65' LOWER-20'	UPPER-31' LOWER-10'	UPPER-16' LOWER-5'	126'
14"	51'	22'	11'	5'	UPPER-76' LOWER-22'	UPPER-37' LOWER-6'	UPPER-18' LOWER-3'	148'
16"	56'	24'	12'	6'	UPPER-84' LOWER-25'	UPPER-41' LOWER-12'	UPPER-20' LOWER-6'	164'
18"	62'	26'	13'	7'	UPPER-93' LOWER-28'	UPPER-45' LOWER-14'	UPPER-23' LOWER-7'	182'
24"	80'	33'	16'	8'	UPPER-120' LOWER-36'	UPPER-58' LOWER-17'	UPPER-29' LOWER-9'	237'



RESTRAINED LENGTHS FOR PRESSURE PIPE 2
NTS

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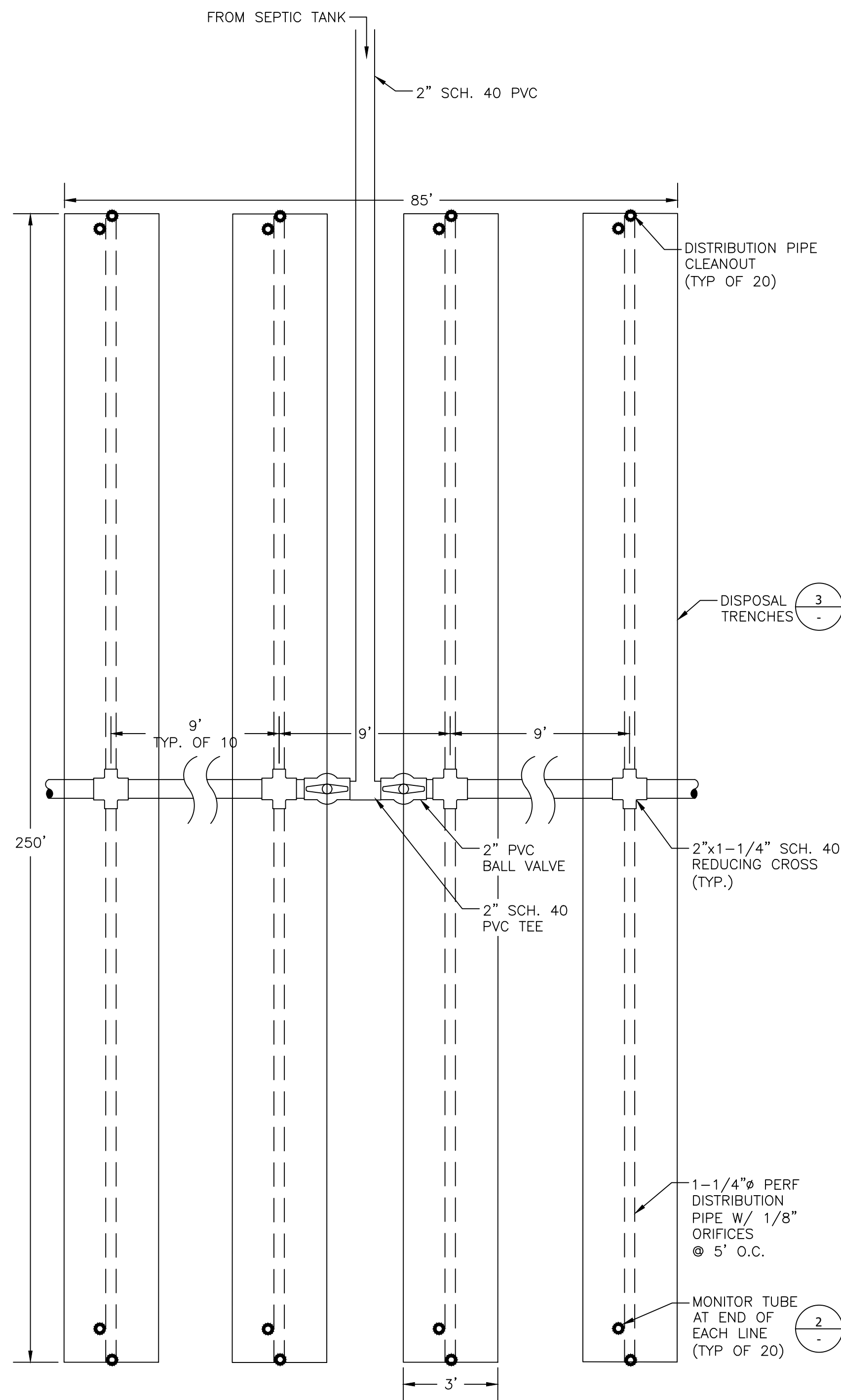
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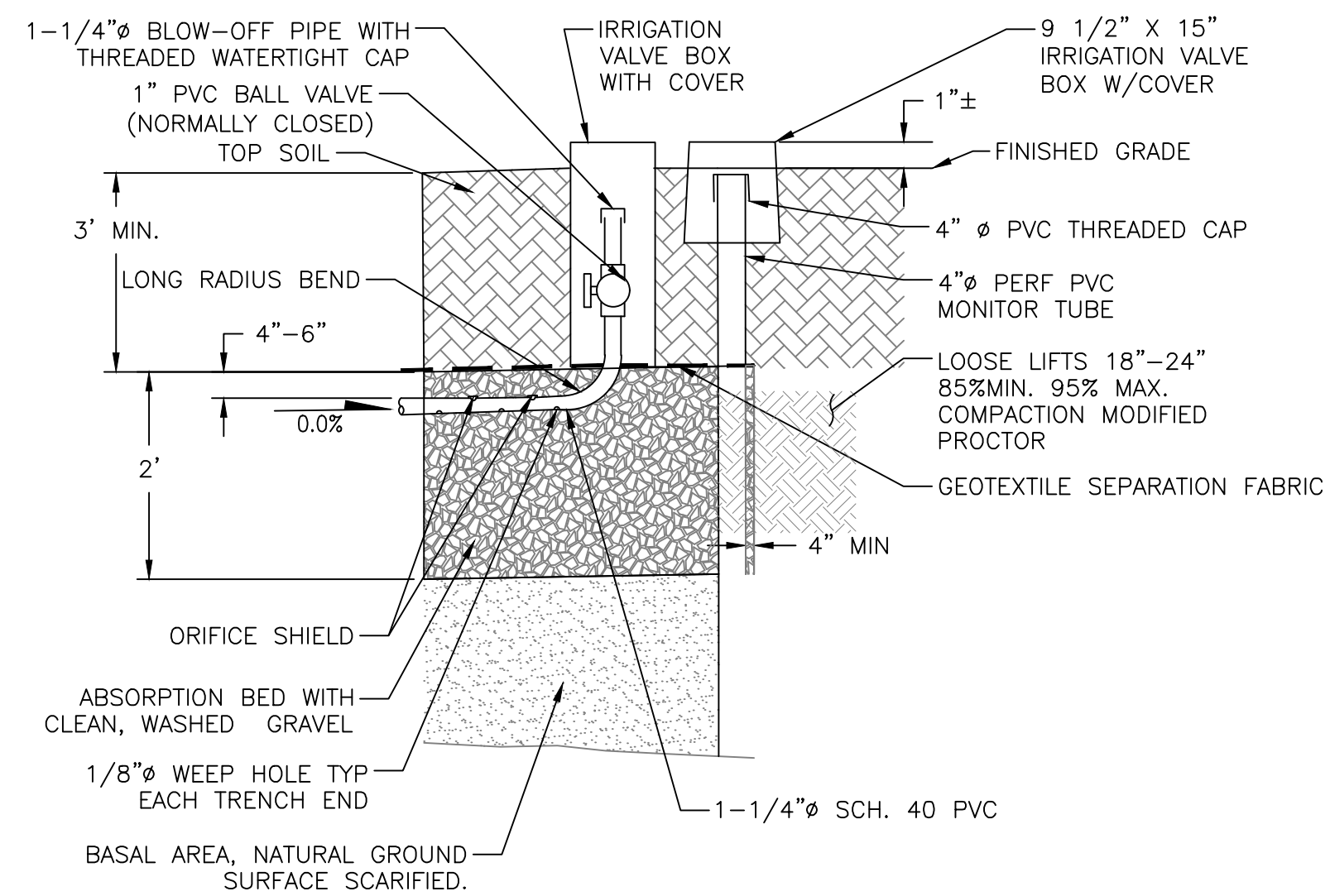
CIVIL DETAILS 4

SHEET 25 OF 33
DWG NO. C-21

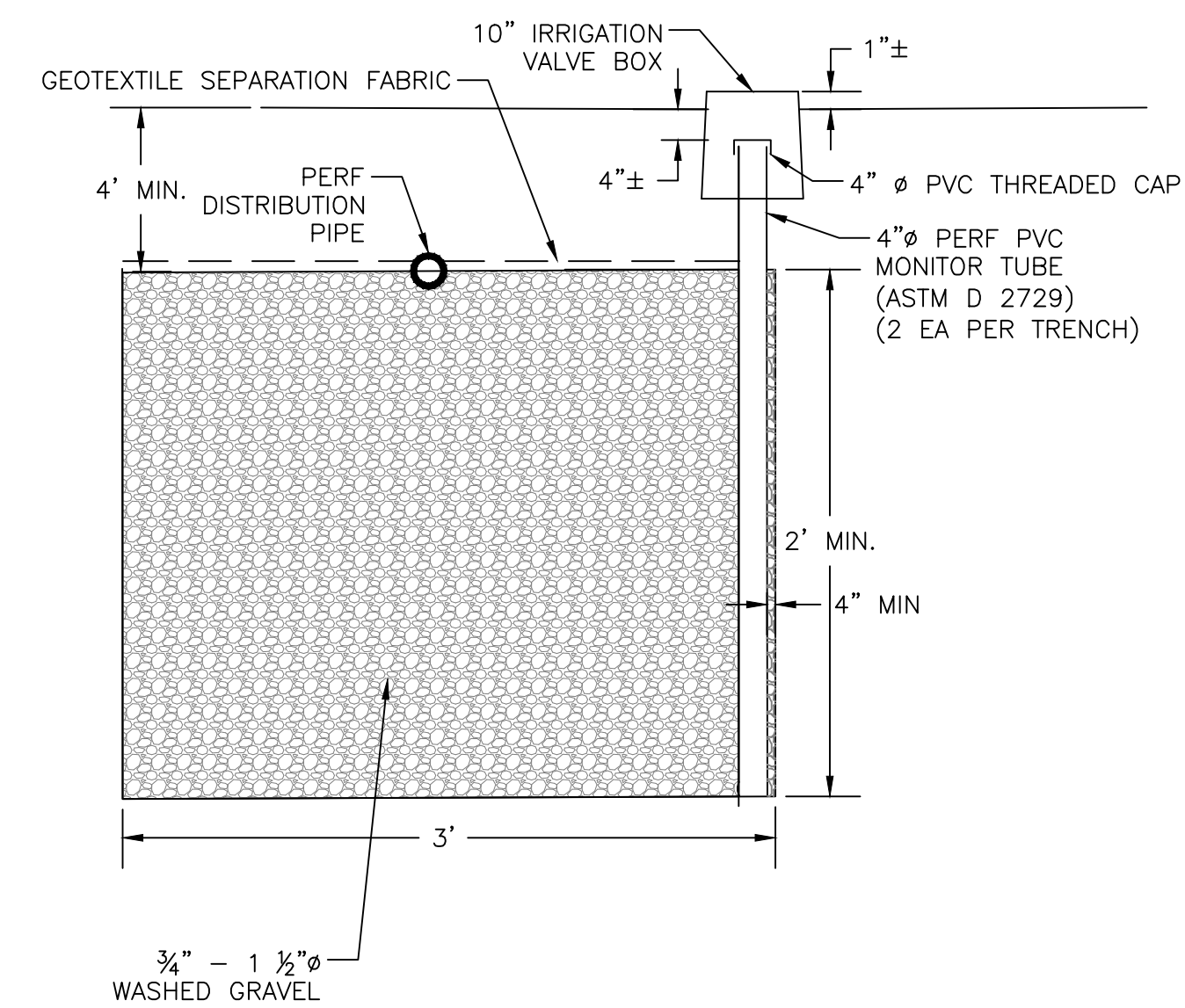
JOB NO.
DB21.1270



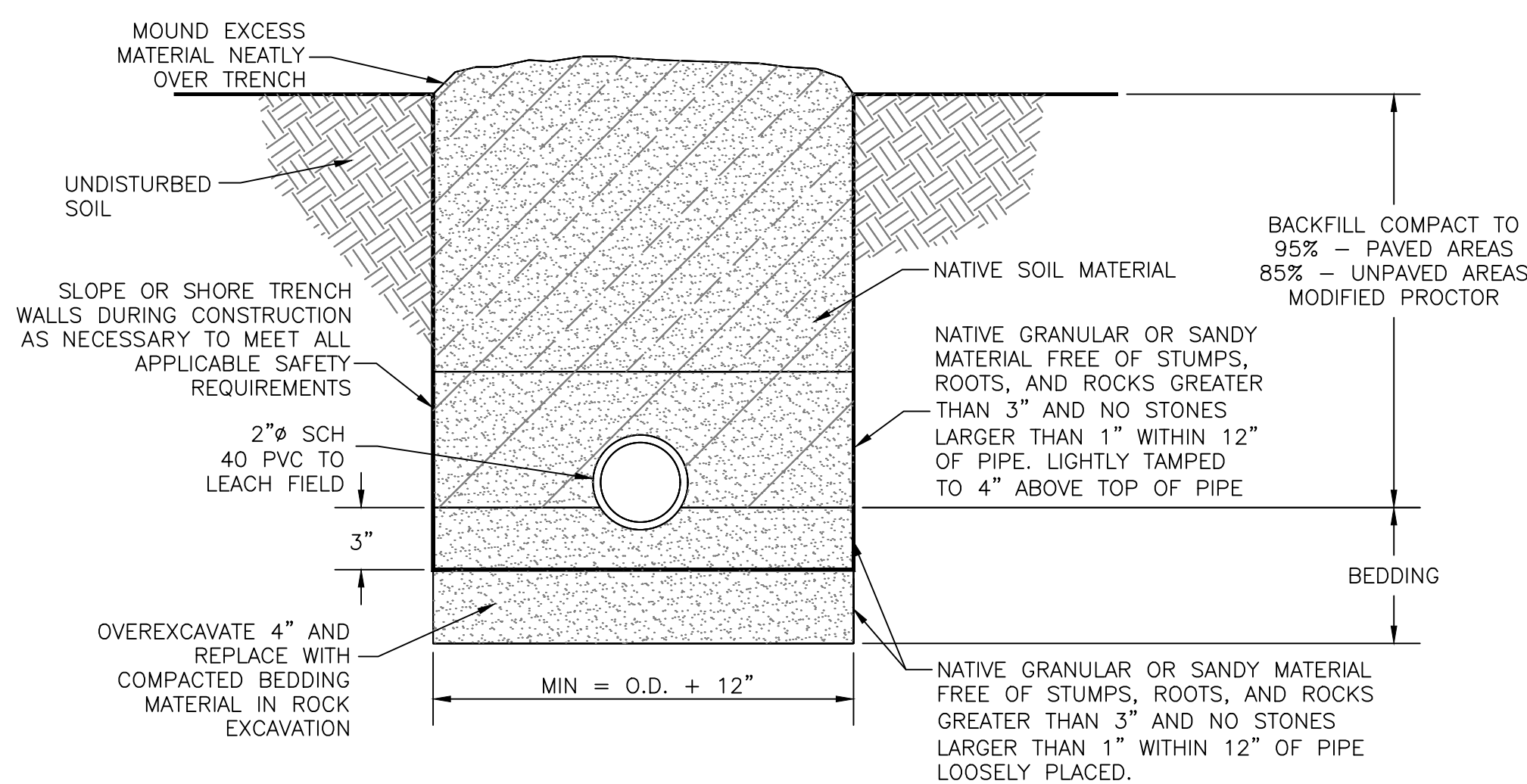
LEACH FIELD PLAN LAYOUT 1
-
NTS



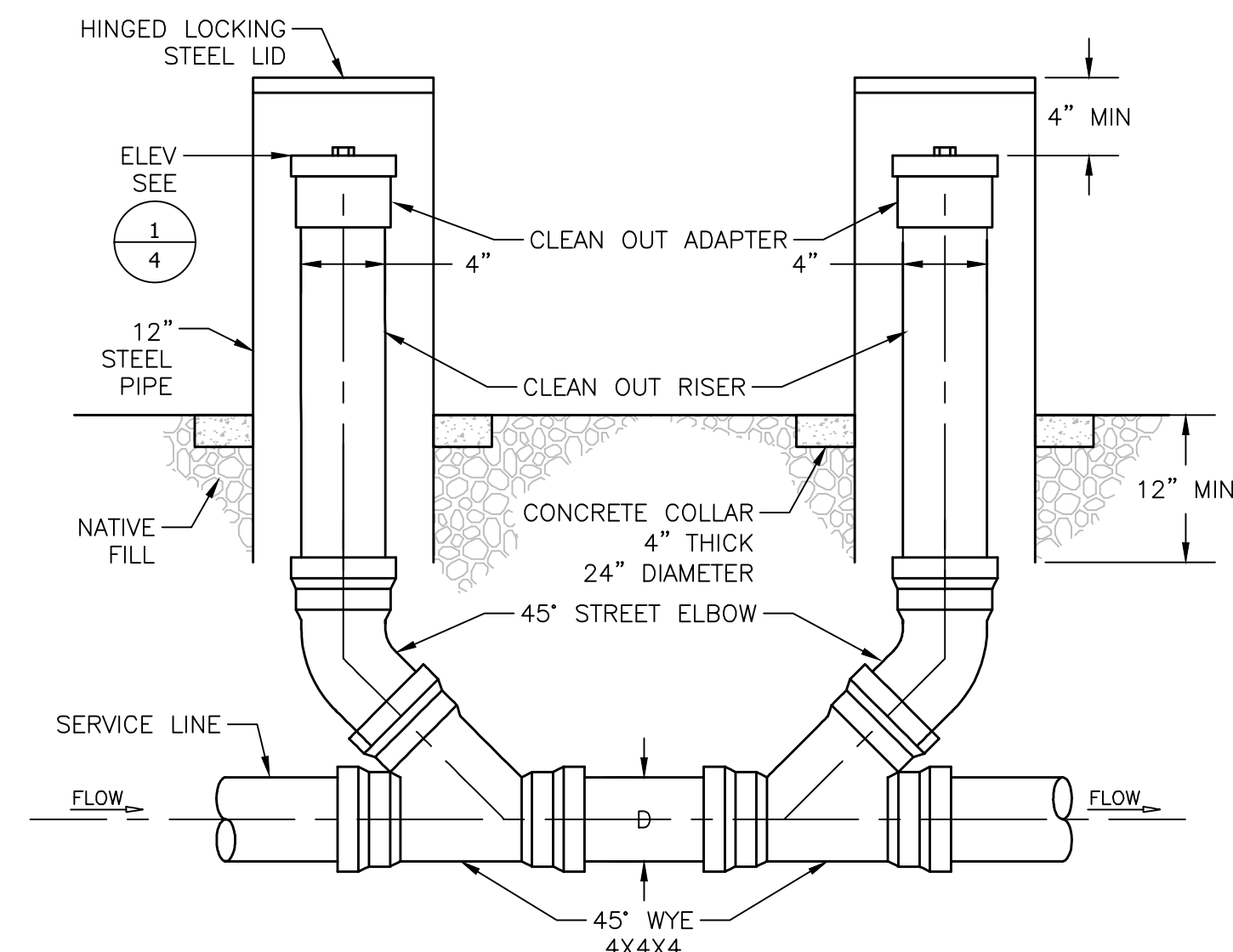
LEACH FIELD BLOW-OFF PIPE SECTION



LEACH FIELD TRENCH SECTION W/ MONITOR TUBE 3
NTS -



TYPICAL LEACH FIELD CONVEYANCE LINE TRENCH SECTION



LEACH FIELD CLEANOUT DETAIL (TYP. OF 20) 5
NTS -

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TAOS REGIONAL AIRPORT WATER
AND WASTEWATER UTILITIES
TAOS COUNTY, NM

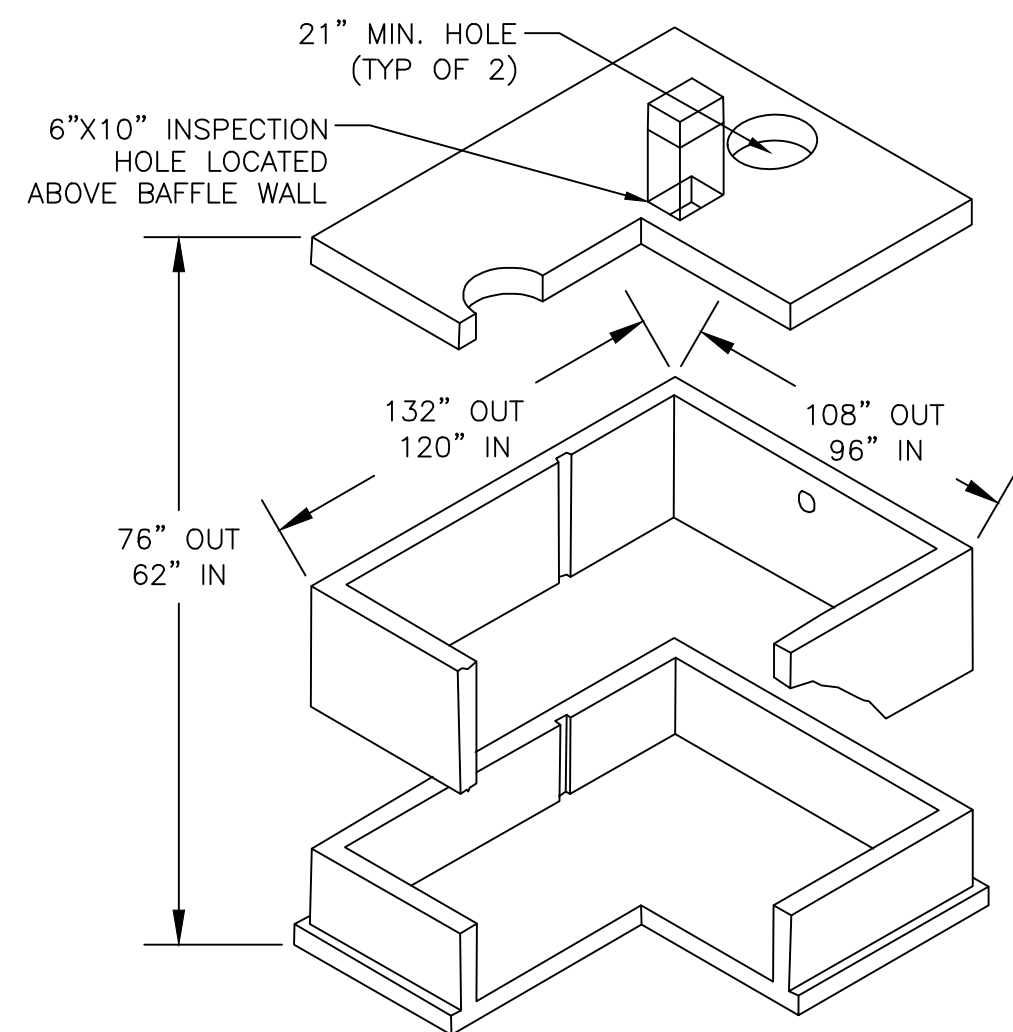
CIVIL DETAILS 5

SHEET 26 OF 33
DWG NO. C-22

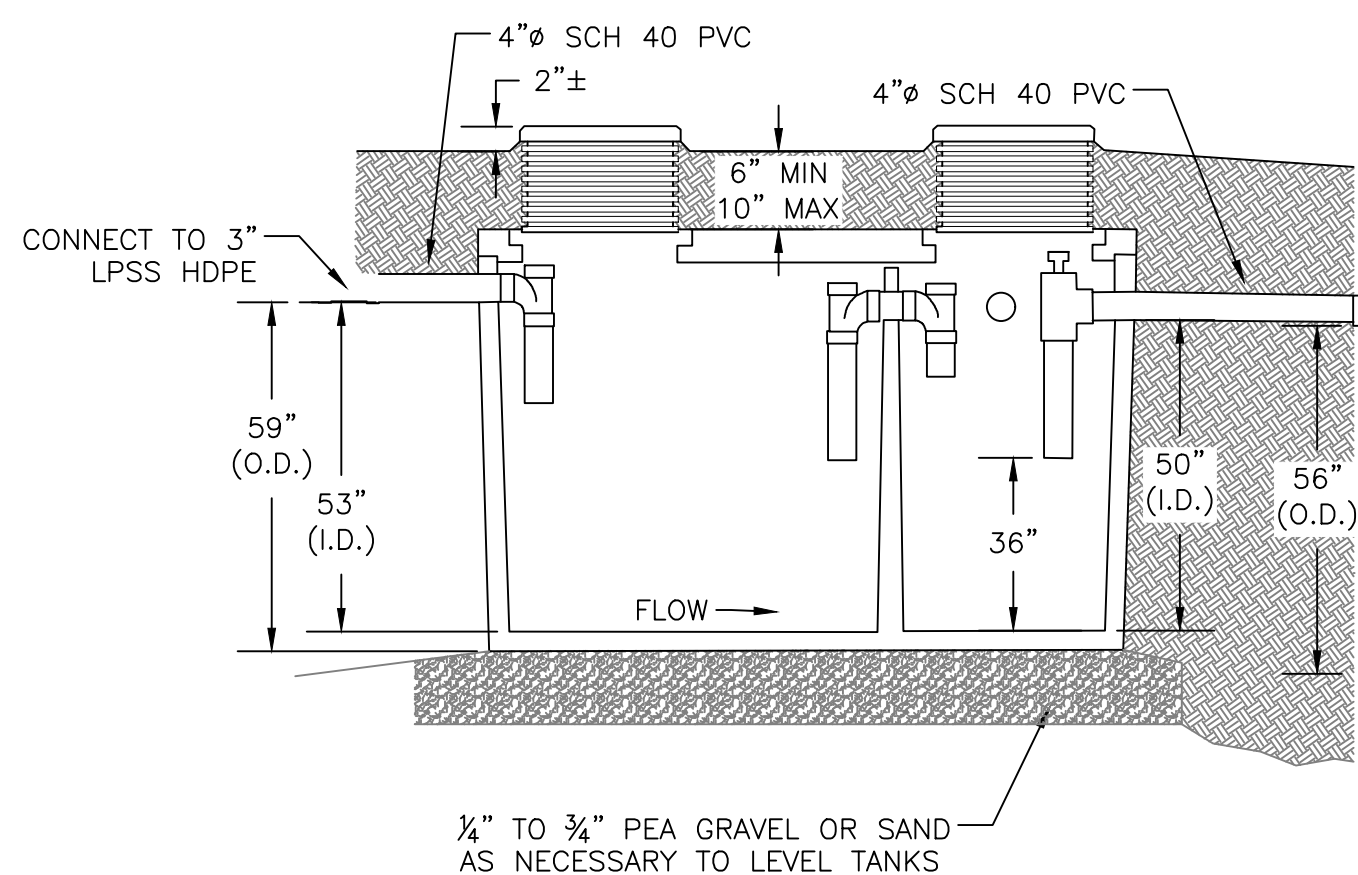
JOB NO.
DB21.1270

$$\frac{1}{-}$$

1. BACKFILL WITH SUITABLE NATIVE SOIL. SUITABLE SOIL SHALL BE FREE-FLOWING AND SHOULD NOT HAVE STONES GREATER THAN 3-IN IN DIA. OR CLODS THAT DO NOT BREAK APART DURING PLACEMENT AND COMPACTION.
2. DO NOT BACKFILL TOP OF BASIN BEFORE SIDEWALLS ARE COMPLETELY BACKFILLED.
3. CONTINUE TO PLACE BACKFILL ALONG THE SIDEWALLS IN 12-IN LIFTS.
4. COMPACT BACKFILL MATERIAL EITHER BY HAND TAMPING OR MECHANICAL COMPACTOR. COMPACT EACH LIFT PRIOR TO PLACEMENT OF NEXT LIFT. COMPACT BACKFILL FROM BASIN WALLS TO EXCAVATION SIDEWALLS.
5. COMPLETE BACKFILLING AND GRADE THE AREA.



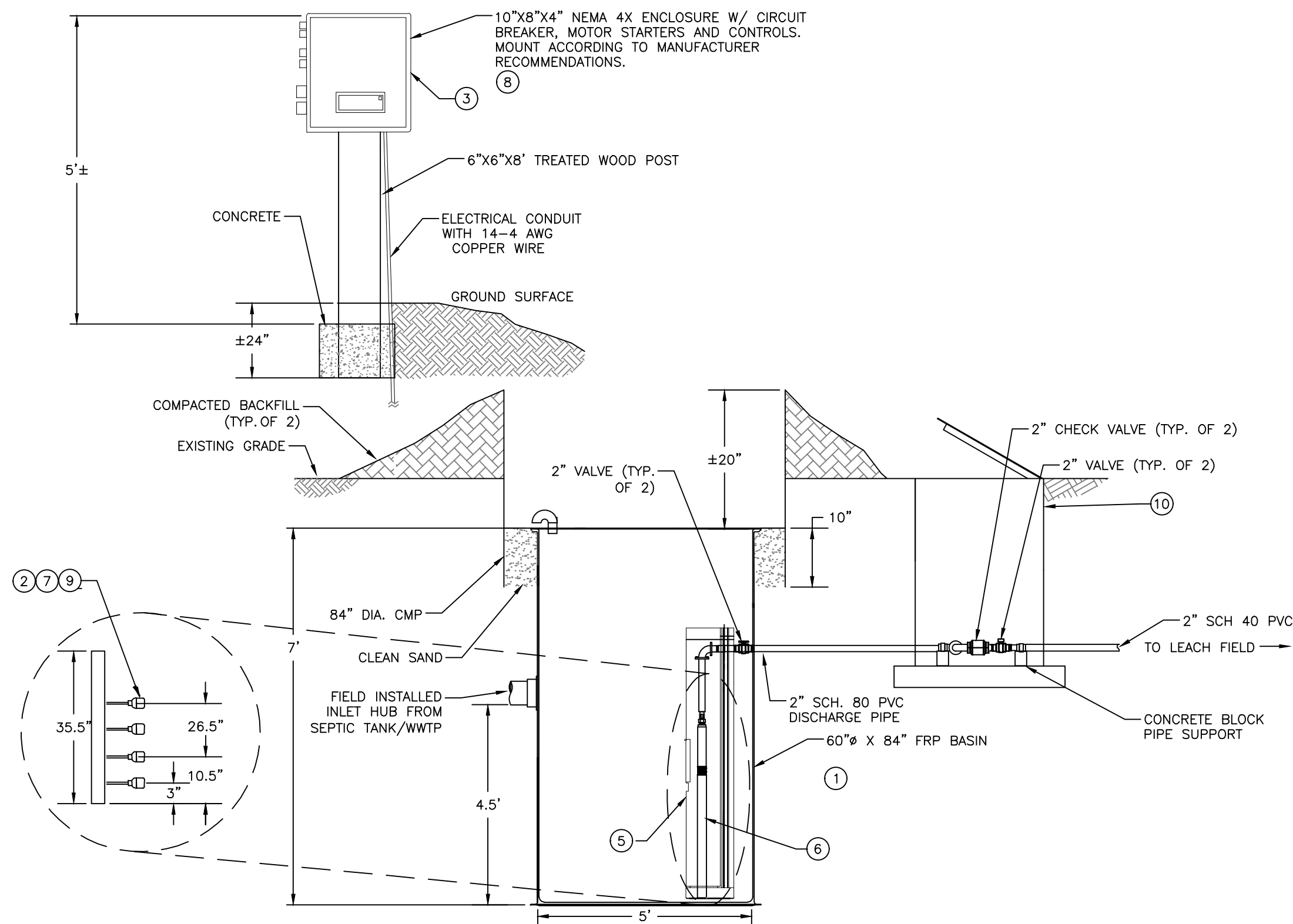
NTS



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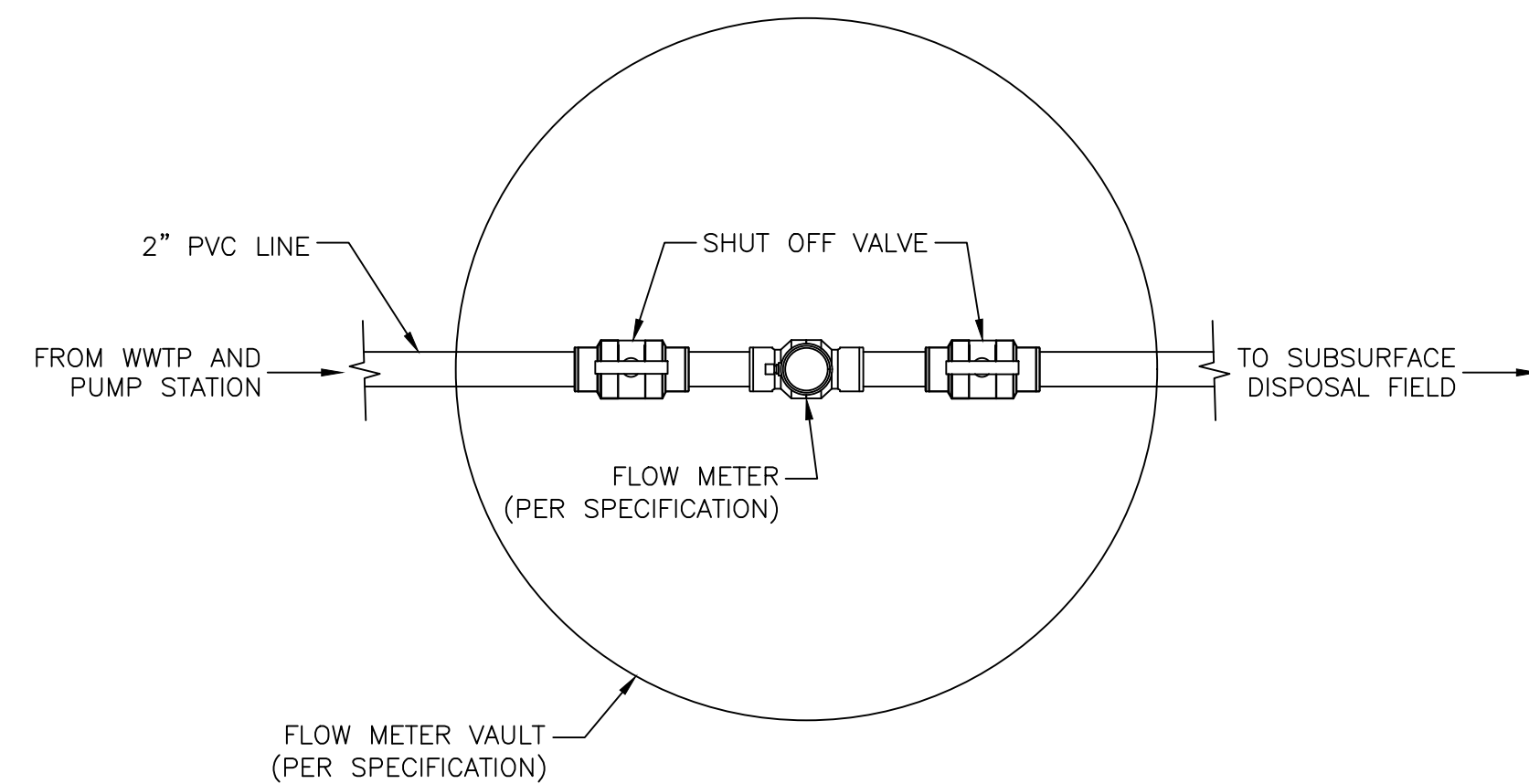
1. SEPTIC TANK EXCAVATION BOTTOM SHALL BE 2' WIDER AND 2' LONGER THAN TOTAL OUTSIDE DIMENSIONS.
2. INSPECT BOTTOM OF EXCAVATION TO VERIFY SUITABILITY OF NATIVE SOIL FOR TANK INSTALLATION. CLAY SOIL AND LARGE PROTRUDING, OR SHARP STONES OR OTHER SIMILAR OBJECTS THAT MAY DAMAGE TANK ARE NOT SUITABLE.
3. THE TANK MAY BE BED EITHER IN SUITABLE NATIVE SOIL OR A MIN. 4-INCH LAYER OF PEA STONE, SAND, GRAVEL, OR OTHER SIMILAR GRANULAR MATERIAL HAVING PARTICLES LESS THAN 3-INCHES IN DIA.
4. TANKS SHALL BE H-20 RATED AND MEET ALL REQUIREMENTS OF NMAC 20.7.3.502.

1. BACKFILL WITH SUITABLE NATIVE SOIL. SUITABLE SOIL SHALL BE FREE—FLOWING AND SHOULD NOT HAVE STONES GREATER THAN 3-IN IN DIA. OR CLODS THAT DO NOT BREAK APART DURING PLACEMENT AND COMPACTION.
2. DO NOT BACKFILL TOP OF TANK BEFORE SIDEWALLS ARE COMPLETELY BACKFILLED.
3. CONTINUE TO PLACE BACKFILL ALONG THE SIDEWALLS IN 12-IN LIFTS.
4. COMPACT BACKFILL MATERIAL EITHER BY HAND TAMPING OR MECHANICAL COMPACTOR. COMPACT EACH LIFT PRIOR TO PLACEMENT OF NEXT LIFT. COMPACT BACKFILL FROM TANK WALLS TO EXCAVATION SIDEWALLS.
5. COMPLETE BACKFILLING AND GRADE THE AREA.



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- (6) ZOELLER TURBINE, EFFLUENT PUMP 19 GPM 1/2 HP, 230V/PH, 25' CORD
- (7) ZOELLER 10-1674 FLOAT TREE FOUR HANGER
- (8) ZOELLER CONTROL PANEL DUP, 230V/1PH, DEMAND,W/3 FLOATS, INNER DOOR
- (9) ZOELLER 10-0743 5A 250V MECH FLOAT SWITCH W/180 CORD L/PLUG
- (10) ZOELLER BASIN & AL HATCH COVER, 48" DIA. X 48" TALL.



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TAOS COUNTY, NEW MEXICO
EDA 08-79-05544

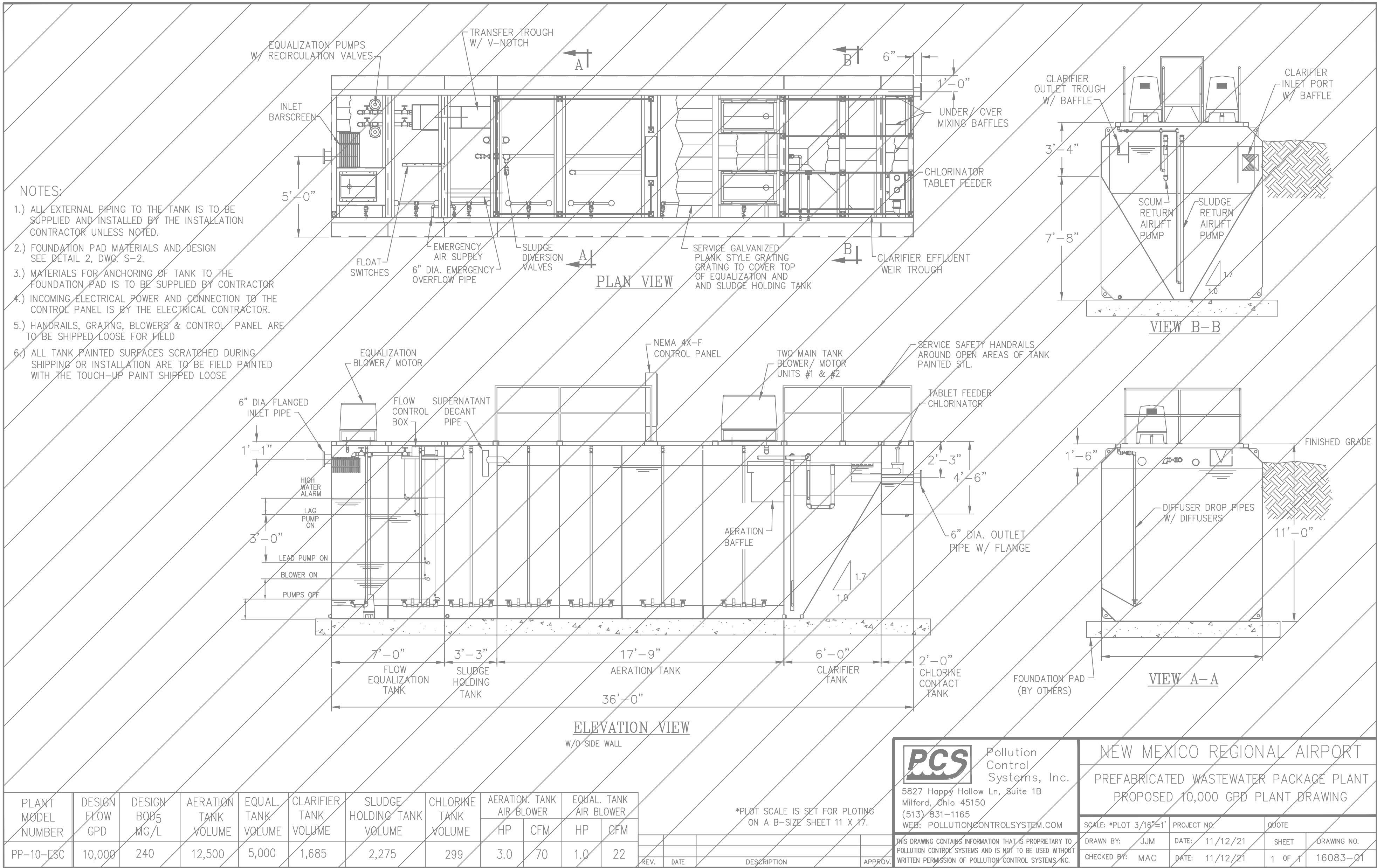
TAOS REGIONAL AIRPORT WATER
AND WASTEWATER UTILITIES
TAOS COUNTY, NM

CIVIL DETAILS 6

SHEET 27 OF 37
DWG NO. C-23

JOB NO.
DB21.1270

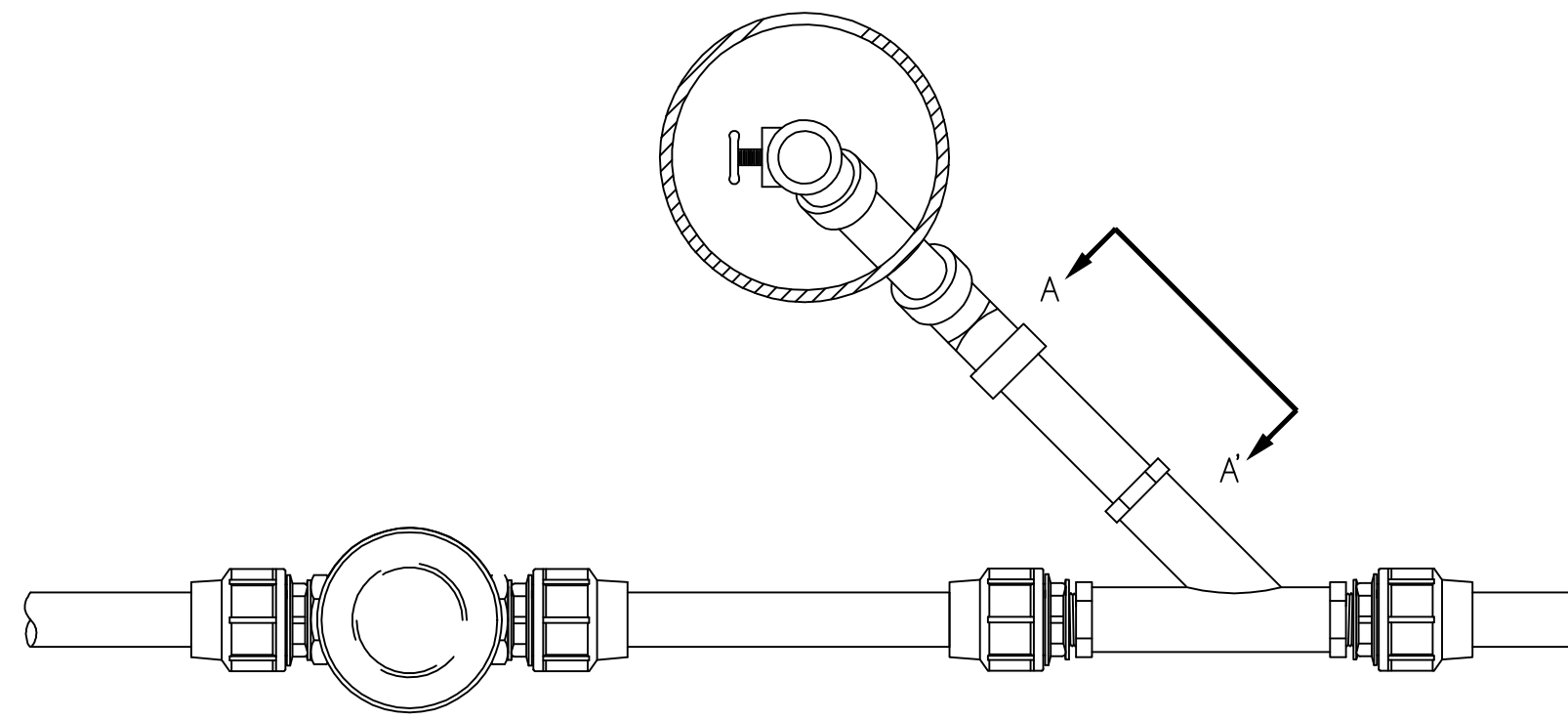
\\DATA\ASB\DATA\PROJECTS\DB21.1270_TAOs_AIRPORT-ABETTA-CONSTRUCTION\CAD\PRODUCTION\ON SITE UTILITIES\C-24_CIVIL DETAILS 7.DWG May 8, 2025 - 2:14 PM BY: ALEX NUÑEZ-THOMPSON



**PREFABRICATED WASTEWATER PACKAGE PLANT
FUTURE (BY OTHERS)**

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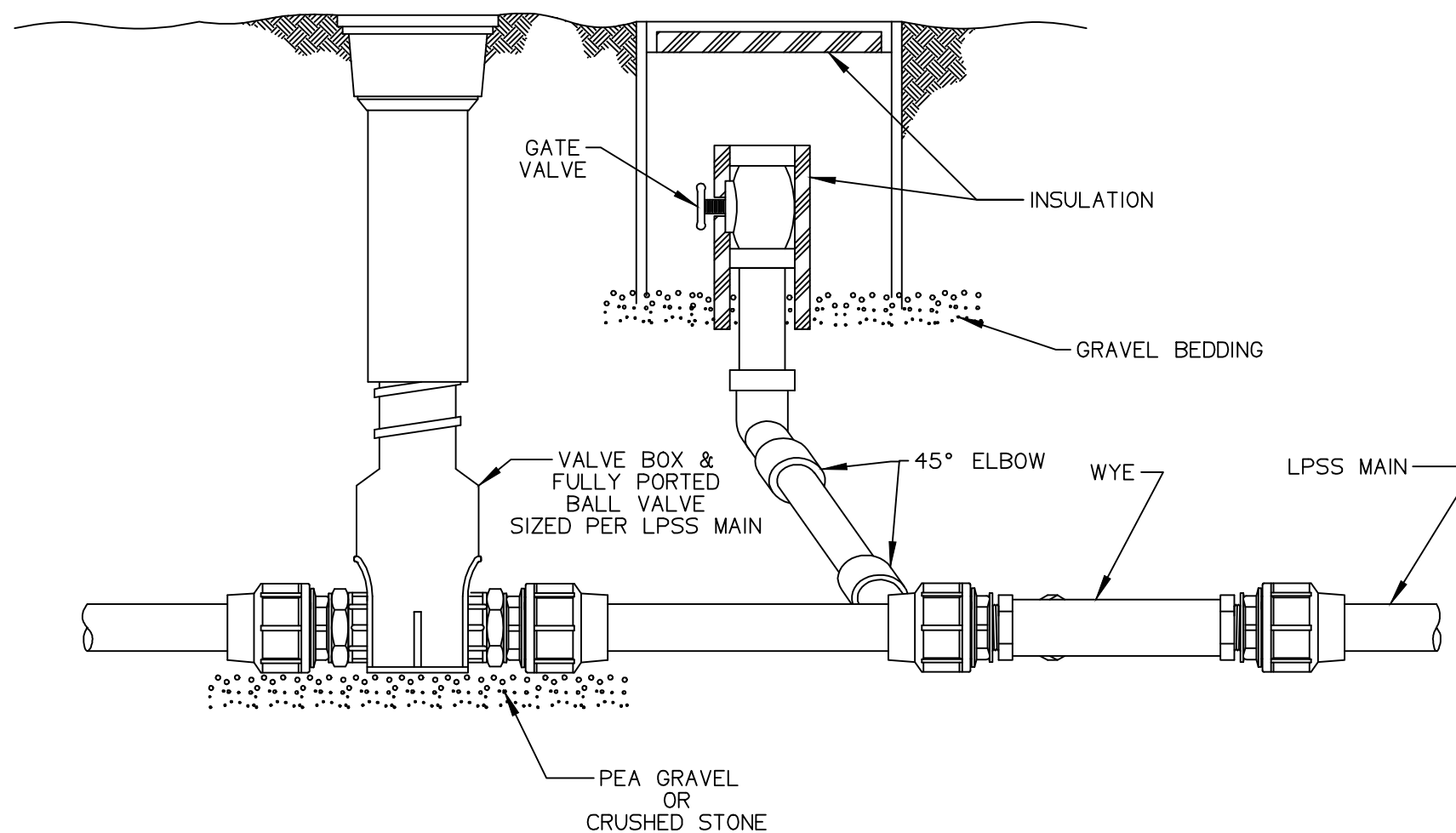
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TYPICAL FLUSHING CONNECTION ON LPSS MAIN PLAN

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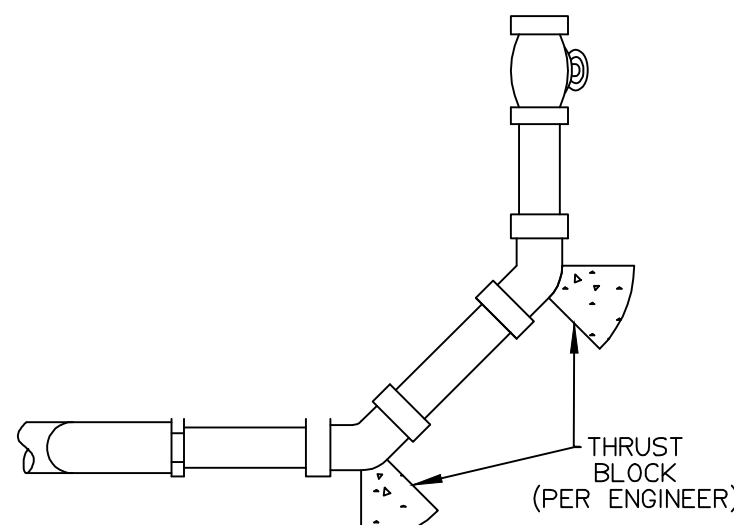
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TYPICAL FLUSHING CONNECTION ON LPSS MAIN ELEVATION

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VIEW A-A'

ELEVATION VIEW

NTS

A-A'
-

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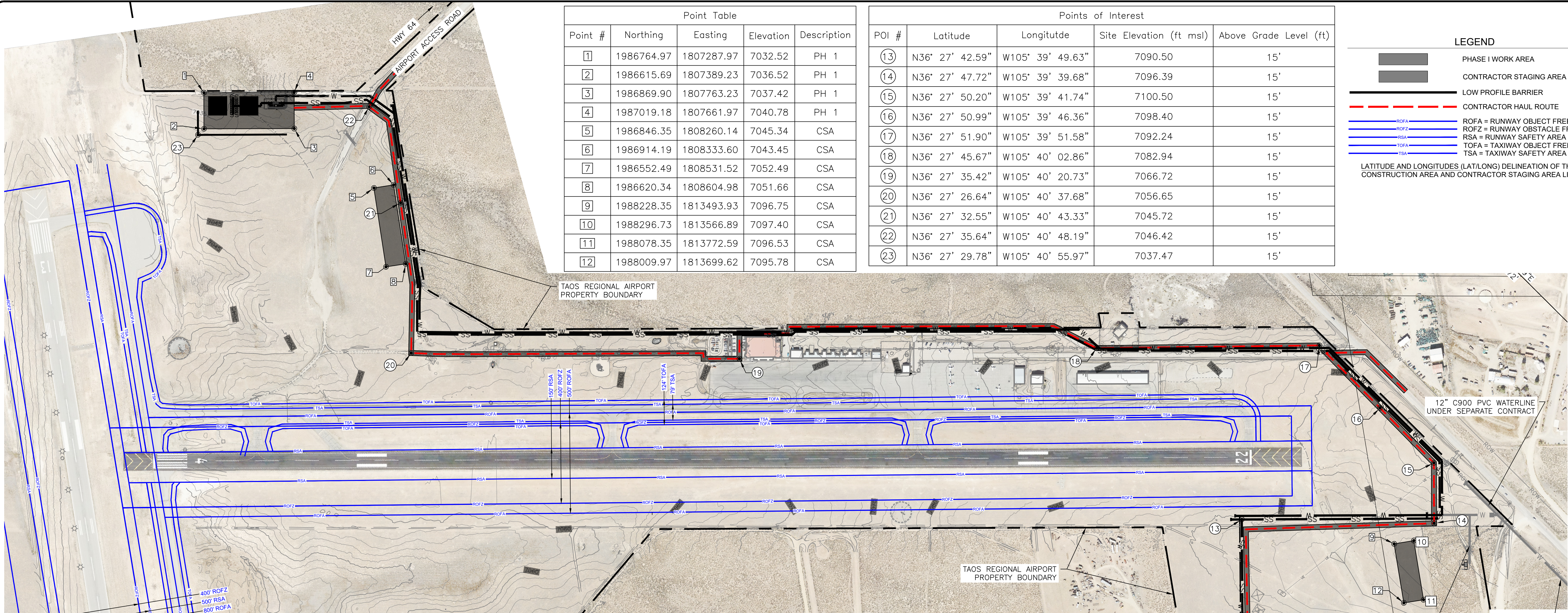
TAOS REGIONAL AIRPORT WATER
AND WASTEWATER UTILITIES
TAOS COUNTY, NM

CIVIL DETAILS 7

SHEET 27 OF 32
DWG NO. C-24

JOB NO.
DB21.1270

\\DATA\ASB\DATA\PROJECTS\DB21.1270 - TAOS - AIRPORT - ABEYTA - CONSTRUCTION\CONSTRUCTION\ON SITE UTILITIES\C-25 CONSTRUCTION SAFETY & PHASING PLANDWG May 8, 2025 - 2:14 PM BY: ALEX NÚÑEZ-THOMPSON



Point Table				
Point #	Northing	Easting	Elevation	Description
1	1986764.97	1807287.97	7032.52	PH 1
2	1986615.69	1807389.23	7036.52	PH 1
3	1986869.90	1807763.23	7037.42	PH 1
4	1987019.18	1807661.97	7040.78	PH 1
5	1986846.35	1808260.14	7045.34	CSA
6	1986914.19	1808333.60	7043.45	CSA
7	1986552.49	1808531.52	7052.49	CSA
8	1986620.34	1808604.98	7051.66	CSA
9	1988228.35	1813493.93	7096.75	CSA
10	1988296.73	1813566.89	7097.40	CSA
11	1988078.35	1813772.59	7096.53	CSA
12	1988009.97	1813699.62	7095.78	CSA

Points of Interest				
POI #	Latitude	Longitude	Site Elevation (ft msl)	Above Grade Level (ft)
13	N36° 27' 42.59"	W105° 39' 49.63"	7090.50	15'
14	N36° 27' 47.72"	W105° 39' 39.68"	7096.39	15'
15	N36° 27' 50.20"	W105° 39' 41.74"	7100.50	15'
16	N36° 27' 50.99"	W105° 39' 46.36"	7098.40	15'
17	N36° 27' 51.90"	W105° 39' 51.58"	7092.24	15'
18	N36° 27' 45.67"	W105° 40' 02.86"	7082.94	15'
19	N36° 27' 35.42"	W105° 40' 20.73"	7066.72	15'
20	N36° 27' 26.64"	W105° 40' 37.68"	7056.65	15'
21	N36° 27' 32.55"	W105° 40' 43.33"	7045.72	15'
22	N36° 27' 35.64"	W105° 40' 48.19"	7046.42	15'
23	N36° 27' 29.78"	W105° 40' 55.97"	7037.47	15'

LEGEND

PHASE I WORK AREA

CONTRACTOR STAGING AREA

LOW PROFILE BARRIER

CONTRACTOR HAUL ROUTE

ROFA = RUNWAY OBJECT FREE AREA

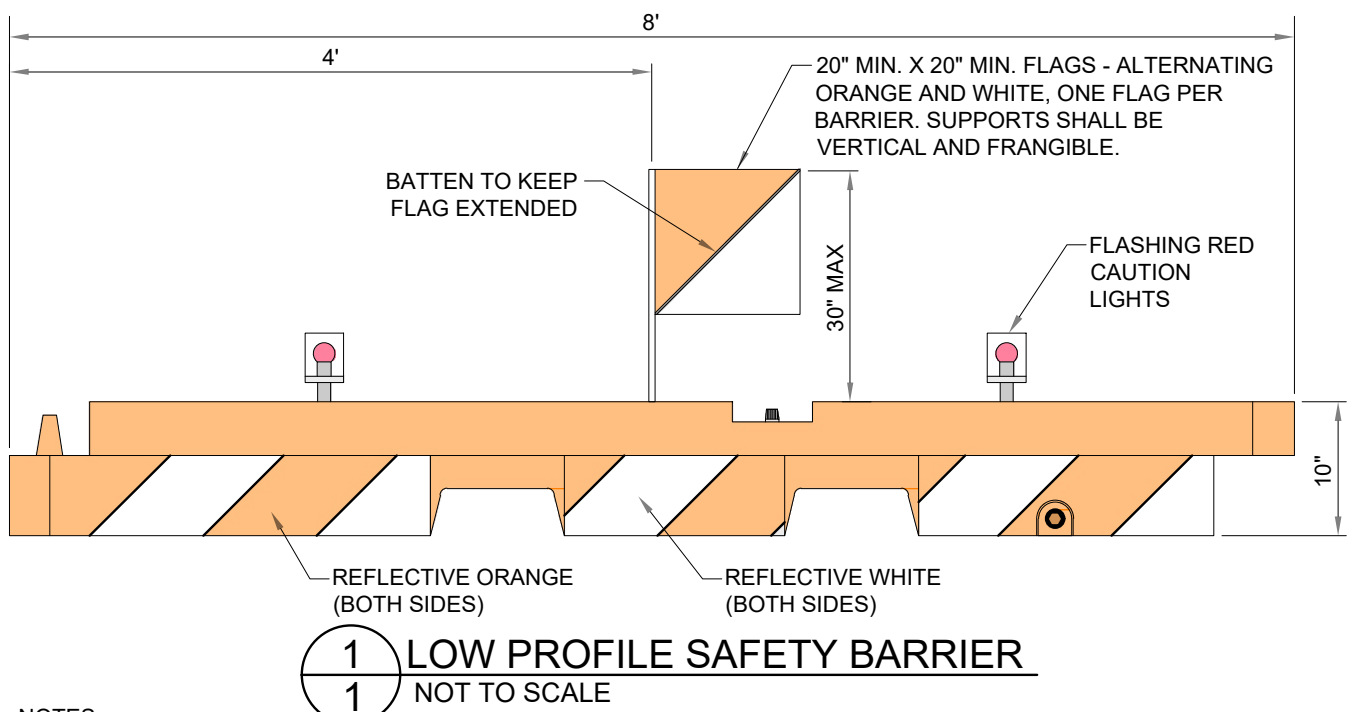
ROFZ = RUNWAY OBSTACLE FREE ZONE

RSA = RUNWAY SAFETY AREA

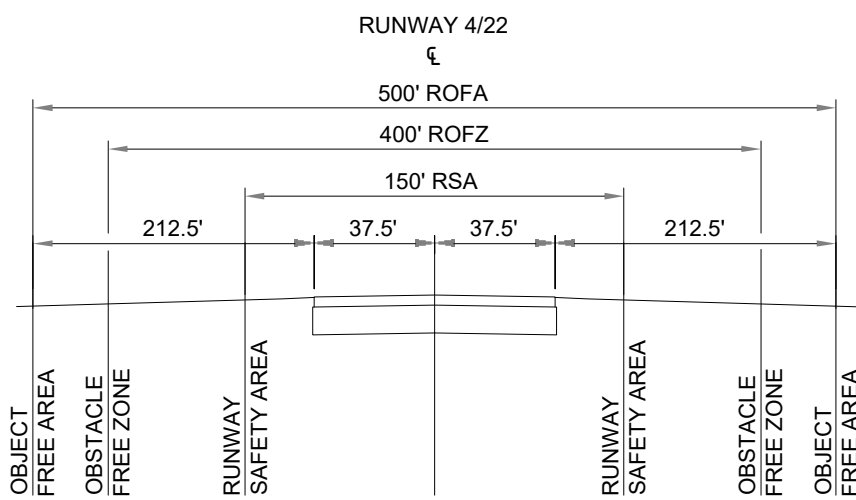
TOFA = TAXIWAY OBJECT FREE AREA

TSA = TAXIWAY SAFETY AREA

LATITUDE AND LONGITUDES (LAT/LONG) DELINEATION OF THE CONSTRUCTION AREA AND CONTRACTOR STAGING AREA LIMITS

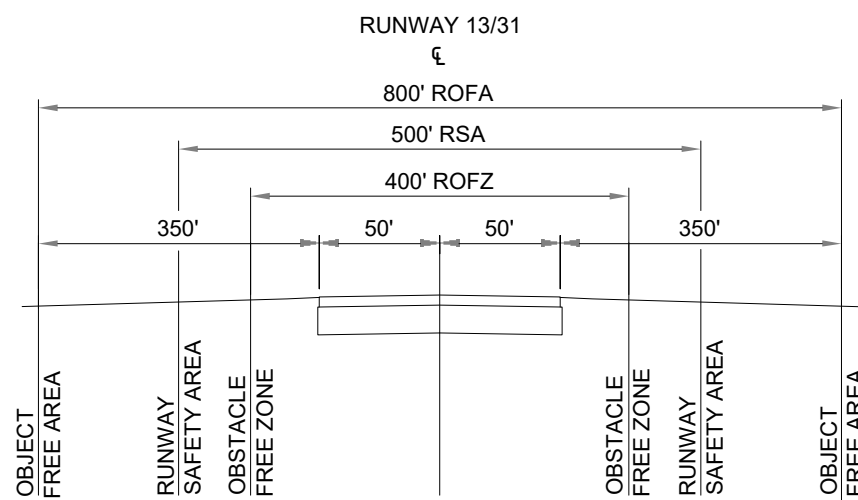


- NOTES:
- BARRIER SHALL BE SHERWIN INDUSTRIES, 10' x 96" LOW PROFILE AIRPORT BARRIER, AS SHOWN, OR APPROVED EQUAL.
 - THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE REFLECTORIZED WITH SMOOTH SURFACE TYPE REFLECTIVE SHEETING.
 - LIGHTS MUST BE MOUNTED ON BARRIERS AND SPACED AT NO MORE THAN 10 FT.
 - THE BARRIERS SHALL BE WEIGHTED AGAINST PROPWASH AND CAPABLE OF WITHSTANDING UP TO 100 M.P.H. WIND FORCES.
 - FLASHING RED CAUTION LIGHTS SHALL BE BATTERY OPERATED AND SHALL MAINTAIN SUCH INTENSITY SO AS TO BE READILY IDENTIFIED FROM DISTANCES OF AT LEAST 200 FEET DURING DARKNESS.
 - THE CONTRACTOR SHALL CHECK ALL BARRIERS AND LIGHTS EACH DAY BEFORE LEAVING THE AIRPORT TO ENSURE LIGHTS ARE WORKING PROPERLY AND MAY NOT LEAVE WITHOUT ALL BARRIERS AND LIGHTS BEING IN PROPER WORKING ORDER.



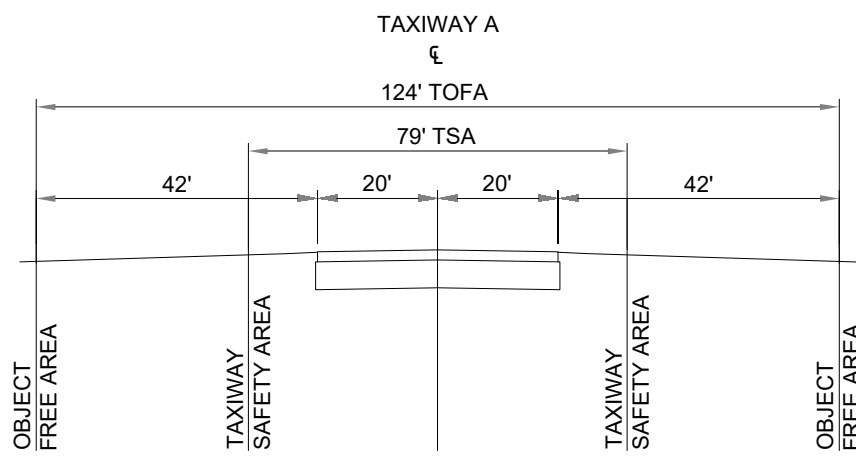
ALL STATIONARY CONSTRUCTION EQUIPMENT AND STOCKPILES MUST REMAIN CLEAR OF ANY OPEN RUNWAY OBJECT FREE AREA. ALL CONSTRUCTION EQUIPMENT AND TRAFFIC MUST REMAIN CLEAR OF ANY OPEN RUNWAY OBSTACLE FREE ZONE.

2 SAFETY AREAS
1 NOT TO SCALE



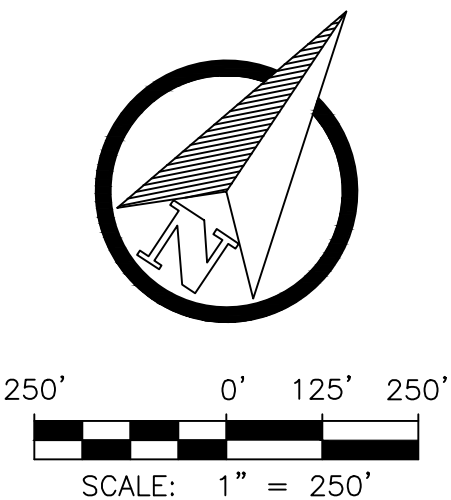
ALL STATIONARY CONSTRUCTION EQUIPMENT AND STOCKPILES MUST REMAIN CLEAR OF ANY OPEN RUNWAY OBJECT FREE AREA. ALL CONSTRUCTION EQUIPMENT AND TRAFFIC MUST REMAIN CLEAR OF ANY OPEN RUNWAY OBSTACLE FREE ZONE.

3 SAFETY AREAS
1 NOT TO SCALE



ALL CONSTRUCTION EQUIPMENT, STOCKPILES, AND TRAFFIC MUST REMAIN CLEAR OF ANY OPEN TAXIWAY OBJECT FREE AREA.

4 SAFETY AREAS
1 NOT TO SCALE

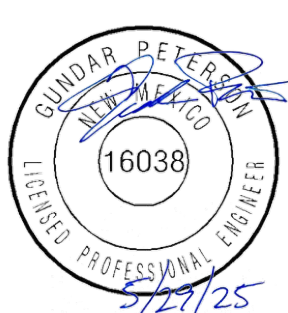


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Albuquerque, NM 87110



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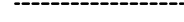
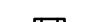
TAOS REGIONAL AIRPORT WATER
AND WASTEWATER UTILITIES
TAOS COUNTY, NM

CONSTRUCTION SAFETY & PHASING PLAN

SHEET 29 OF 33
DWG NO. C-25

JOB NO.
DB21.1270

F:\21337 TAOS AIRPORT BOOSTER STATIONS\21337 CAD\CONSTRUCT\ELECTRICAL\E-1 ELECTRICAL LEGEND AND NOTES.DWG October 13, 2023 -- 8:49 AM By: TOM RUEHLE

ELECTRICAL SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	WALL OUTLET AND SURFACE MOUNTED FIXTURE
	FLUORESCENT OUTLET AND FIXTURE
	SINGLE POLE SWITCH, FLUSH MOUNTED 48" A.F.F.
	DUPLEX CONVENIENCE OUTLET, 18" A.F.F.
	WEATHERPROOF DUPLEX CONVENIENCE OUTLET, 18" A.F.F.
	DUPLEX CONVENIENCE OUTLET, GROUND FAULT CIRCUIT INTERRUPTER, 18" A.F.F.
	JUNCTION BOX INSTALLED ABOVE LAY-IN CEILING WITH FLEXIBLE CONDUIT CONNECTION TO LAY-IN FIXTURES. MAXIMUM 4'-0" LENGTH OF CONDUIT, WITH REQUIRED CONDUCTORS ALONG WITH GREEN GROUND CONDUCTOR
	JUNCTION BOX FLUSH IN WALL, HEIGHT AS INDICATED ON DRAWINGS, WITH CONNECTION TO EQUIPMENT
	CONCEALED BRANCH CIRCUIT WITH CONDUCTORS AS INDICATED. NEUTRAL, HOT, SWITCH LEG AND GROUND RESPECTIVELY
	BRANCH CIRCUIT OR CONDUIT INSTALLED UNDERGROUND OR UNDER FLOOR
	HOMERUN TO PANELBOARD WITH BRANCH CIRCUIT NUMBERS INDICATED
	SOLENOID VALVE
	LIMIT SWITCH
	PRESSURE TRANSMITTER
	FIRE ALARM SMOKE AND HEAT DETECTOR, PHOTOELECTRIC TYPE, 120V AUX CONTACTS MOTOR CONNECTION FOR FRACTIONAL HP MOTOR (1/3 HP OR LESS). PROVIDE THERMAL OVERLOAD SWITCH (WEATHERPROOF IF OUTSIDE) ADJACENT TO MOTOR UNLESS SWITCH IS SHOWN ELSEWHERE ON PLANS
	MOTOR CONNECTION FOR MOTOR WITH HP INDICATED
	DISCONNECT SWITCH, POLES AND RATING AS INDICATED OR AS REQUIRED, NEMA 3R IF INSTALLED OUTSIDE
	FUSED DISCONNECT SWITCH, FUSE, POLES AND RATING AS INDICATED OR AS REQUIRED, NEMA 3R IF INSTALLED OUTSIDE
	COMBINATION MAGNETIC MOTOR CONTROLLER/DISCONNECT SWITCH. SIZE, POLES, FUSES AND OVERLOADS PER MOTOR SERVED
	MAGNETIC MOTOR CONTROLLER, SIZE AND POLES PER MOTOR SERVED
	TRANSFORMER, DRY TYPE, SIZE AS INDICATED
	THERMOSTAT(M), 48" A.F.F.
	120V PANELBOARD, REFER TO PANEL SCHEDULE
	277V PANELBOARD, REFER TO PANEL SCHEDULE
	SPECIAL PURPOSE CABINET, AS INDICATED ON DRAWINGS
	INTRUSION ALARM DOOR CONTACT MAGNETIC
	NORMALLY OPEN CONTACT
	NORMALLY CLOSED CONTACT
	CONTACTOR
	MOTOR OVERLOADS
	RED PILOT LIGHT
	GREEN PILOT LIGHT
	TRANSFORMER
	RELAY
	SWITCH
	FUSE(S)
	CIRCUIT BREAKER
	PROGRAMMABLE LOGIC CONTROLLER
	REMOTE TERMINAL UNIT
	THERMOSTAT
	WEATHERPROOF (NEMA 3R)
NOTES: • LIGHTING FIXTURES ARE OF TYPE AS INDICATED ON LIGHT FIXTURE SCHEDULE U.N.O. • MOUNTING HEIGHTS FOR DEVICES CALLED OUT AT 18" A.F.F. ARE TO THE BOTTOM OF THE DEVICE UNLESS OTHERWISE NOTED. • MOUNTING HEIGHTS FOR DEVICES CALLED OUT AT 48" A.F.F. ARE TO THE TOP OF THE DEVICE UNLESS OTHERWISE NOTED. • ANY SPECIFIC DETAILS ABOVE (MOUNTING HEIGHTS, PART NUMBERS, CONNECTION METHODS, ETC.) MAY BE MODIFIED OR REPLACED BY INFORMATION ON PLANS, SCHEDULES, DETAILS, RISERS, ETC. DETAILS NOT SPECIFICALLY MODIFIED REMAIN AS GIVEN ABOVE.	

GENERAL NOTES

SPECIFICATIONS

- IF THERE IS A CONFLICT BETWEEN PLANS/SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS FOR ANY DEVICE, PART, OR MATERIAL USED IN THE PROJECT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY IN WRITING THE ENGINEER FOR CLARIFICATION.
- THE CONTRACTOR SHALL FAMILIARIZE HIM/HERSELF WITH THE PLANS, AND THE SITE CONDITIONS PRIOR TO BID OPENING AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY AMBIGUITIES, CONTRADICTIONS OR IRREGULARITIES IN THE PLANS.
- IF, DURING BIDDING OR CONSTRUCTION, THE CONTRACTOR IS IN DOUBT AS TO THE TRUE MEANING OF ANY PART OF THE PLANS, SPECIFICATIONS, OR OTHER CONTRACT DOCUMENTS, OR DISCREPANCIES IN OR POSSIBLE OMISSIONS FROM THE DRAWINGS OR SPECIFICATIONS, THEY SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND REQUEST AN INTERPRETATION OF CORRECTION THEREOF. DURING THE BIDDING PROCESS AN ADDENDUM (IF NEEDED) WILL BE ISSUED.
- THE CONTRACT, IF AWARDED, WILL BE ON THE BASIS OF MATERIAL AND EQUIPMENT SPECIFIED OR DESCRIBED IN THE BIDDING DOCUMENTS WITHOUT CONSIDERATION OF POSSIBLE SUBSTITUTE OR "OR EQUAL" ITEMS. WHEREVER A BRAND NAME IS SPECIFIED OR DESCRIBED IN THE BIDDING DOCUMENTS A SUBSTITUTE OR "OR EQUAL" ITEM OF MATERIAL OR EQUIPMENT MAY BE FURNISHED OR USED BY CONTRACTOR IF ACCEPTABLE TO ENGINEER. APPLICATION FOR SUCH ACCEPTANCE WILL NOT BE CONSIDERED BY ENGINEER UNTIL AFTER THE EFFECTIVE DATE OF AGREEMENT. THE PROCEDURE FOR SUBMISSION OF ANY SUCH APPLICATION BY CONTRACTOR AND CONSIDERATION BY ENGINEER IS SET FORTH IN THE GENERAL CONDITIONS.

EXISTING UTILITIES & OBSTACLES TO WORK

- THE CONTRACTOR IS RESPONSIBLE TO INSTALL ALL ITEMS DESCRIBED IN THESE PLANS IN A MANNER THAT PROTECTS THE EXISTING FACILITY. THE CONTRACTOR MUST CONTACT THE ENGINEER IMMEDIATELY IF HE IS UNABLE TO PERFORM THIS WORK WITHOUT DAMAGE TO THE EXISTING FACILITY. THE CONTRACTOR MUST FIELD VERIFY ALL EXISTING INFORMATION SHOWN ON THESE PLANS. DESIGN ELEMENTS OF THIS PROJECT WILL NOT CHANGE WITHOUT CHANGE ORDER UNLESS THE CONTRACTOR NOTIFIES THE ENGINEER IN A TIMELY MANNER REGARDING ITEMS DESCRIBED IN THIS NOTE. CHANGES IN ALIGNMENT CAUSED BY UNKNOWN OR UNANTICIPATED SITE CONDITIONS SHALL BE ACCOUNTED FOR BY THE APPROPRIATE UNIT PRICES, AS RECOMMENDED BY THE ENGINEER AND APPROVED BY THE OWNER.
- THE EXISTENCE, CONDITION AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN IN THESE PLANS WAS OBTAINED BY A CAREFUL SEARCH OF AVAILABLE RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN, AND ANY OTHER LINES OR STRUCTURES NOT SHOWN ON THESE PLANS, AND IS RESPONSIBLE FOR THEIR LOCATING, PROTECTION OF, OR ANY DAMAGE TO THESE LINES OR STRUCTURES. THIS DOES NOT RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES AND OBTAIN LINE SPOTS.
- THE FOLLOWING IS A LIST OF POSSIBLE OBSTRUCTIONS AND SHALL NOT BE CONSIDERED A COMPLETE LIST OF POSSIBLE OBSTRUCTIONS: EXISTING UTILITIES, STRUCTURE, GEOTECHNICAL FEATURES, ALL CONDUIT, CABLES, PIPES, WATERLINES, SEWER LINES, GAS LINES, POWER LINES, TELEPHONE AND TELEGRAPH LINES, TREES, MONUMENTS, TRAFFIC CONTROL DEVICES AND OTHER STRUCTURES, BOTH BELOW AND ABOVE GROUND.
- CONTRACTOR SHALL BE HELD RESPONSIBLE FOR COSTS OF REPAIR OF ANY AND ALL DAMAGE TO ANY UTILITY (WHICH IS PREVIOUSLY KNOWN AND DISCLOSED TO HIM BY THE UTILITY OR SHOWN ON THESE PLANS) AS MAY BE CAUSED BY HIS OPERATIONS.
- FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE-CALL SYSTEM, INC. (505) 260-1990, FOR LOCATION OF EXISTING UTILITIES.
- CONTRACTOR SHALL GIVE ALL PUBLIC AND PRIVATE UTILITY COMPANIES NOTICE AS SOON AS POSSIBLE, IN NO EVENT LESS THAN FORTY EIGHT (48) HOURS, FOR ANY WORK THAT IS UNDERSTOOD TO INTERFERE WITH THE SERVICE OF ANY EXISTING PUBLIC OR PRIVATE UTILITY. IF SUCH PUBLIC OR PRIVATE UTILITY DOES NOT COOPERATE FOR THE PROTECTION OF ITS SERVICES, CONTRACTOR SHALL NOTIFY ENGINEER.
- CONTRACTOR SHALL IMMEDIATELY REPORT ANY DAMAGES TO PUBLIC OR PRIVATE PROPERTY TO THE OWNER OF THE PROPERTY INVOLVED AND TO THE ENGINEER. CONTRACTOR SHALL REPAIR OR RESTORE AT HIS OWN EXPENSE ANY DAMAGE TO PUBLIC OR PRIVATE PROPERTY, FOR WHICH THEY ARE DIRECTLY OR INDIRECTLY RESPONSIBLE, TO A CONDITION EQUAL TO THAT EXISTING BEFORE DAMAGE. CONTRACTOR SHALL PROMPTLY NOTIFY HIS INSURANCE CARRIER OF SUCH DAMAGE. IF CONTRACTOR FAILS TO GIVE SUCH NOTICE TO HIS INSURANCE CARRIER OR REFUSES TO EFFECT SUCH REPAIRS OR RESTORATION UPON RECEIPT OF NOTICE, THE ENGINEER MAY CAUSE SUCH REPAIRS OR RESTORATION AND DEDUCT THE COST THEREOF FROM MONEYS DUE, OR WHICH MAY BECOME DUE, TO THE CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR RECORDING EXISTING CONDITIONS IN ACCORDANCE WITH THE SUPPLEMENTARY CONDITIONS OF THE CONTRACT BEFORE CONSTRUCTION BEGINS. THE RECORD OF EXISTING CONDITIONS SHALL BE USED AS THE "EQUAL CONDITION BEFORE DAMAGE" IN THE EVENT OF DAMAGE TO PUBLIC OR PRIVATE PROPERTY. CONTRACTOR FAILURE TO RECORD EXISTING CONDITIONS WILL MAKE THE OWNERS CLAIM OF "EQUAL CONDITION BEFORE DAMAGE" THE STANDARD THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING AND THE ENGINEER WILL BE IN THE POSITION OF NOT BEING ABLE TO SUPPORT THE CONTRACTOR IN THE MEDIATION OF ANY DISPUTE.
- UTILITY LOCATION CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF LOCATION OF ALL EXISTING UTILITIES.

SITE CONDITIONS

- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES ADJACENT TO THE CONSTRUCTION AREA.
- EPA STORM WATER DISCHARGE REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE TO APPLICABLE PORTIONS OF THE EPA STORM WATER DISCHARGE REGULATIONS.
- UST ABATEMENT. THE CONTRACTOR SHALL USE WATERING EQUIPMENT FOR DUST POLLUTION ABATEMENT AS REQUIRED OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND SUPPLYING WATER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

SITE DESIGN

- SUBGRADE. ALL ELECTRICAL SUBGRADE AND TRENCH BACKFILL SHALL BE COMPACTED TO 95 % OF STANDARD PROCTOR. ALL SUBGRADE AND BACKFILL SHALL BE COMPACTED IN MAXIMUM 8" LOOSE LIFTS. MOISTURE CONTENT AT THE TIME OF COMPACTION SHALL NOT EXCEED OPTIMUM OR BE LESS THAN 5 PERCENTAGE POINTS BELOW OPTIMUM. DRIVEWAYS, APRONS, FILLETS, CURB AND GUTTER, AND OTHER CONCRETE PAVEMENT SHALL BE PLACED ON 8" OF COMPACTED SUBGRADE.
- RESTORE SURFACE AT TRENCH TO EXISTING CONDITIONS.

COMMUNICATION

- CONTRACTOR SHALL KEEP THE OWNER AND THE ENGINEER UPDATED WEEKLY ON THE CONSTRUCTION SCHEDULE AND/OR PHASE SCHEDULE, AND PROGRESS TO DATE.

STAGING STORAGE & DEBRIS DISPOSAL

- DEBRIS GENERATED BY CONSTRUCTION ACTIVITIES SHALL BE DISPOSED OF AT A PERMITTED LANDFILL OR OTHER DULY CERTIFIED REFUSE FACILITY. THE DISPOSAL OF DEBRIS IS NOT A PAY ITEM.

RECORD DRAWINGS

- THE CONTRACTOR SHALL PROVIDE A RECORD SKETCH ON THESE PLANS FOR THE AS-CONSTRUCTED CONDITIONS.

PHASE AND SCHEDULE

- CONTRACTOR SHALL PHASE AND SCHEDULE WORK IN SUCH A WAY AS TO PROVIDE MINIMAL POWER OUTAGES AT THE FACILITY. A PROJECT SCHEDULE SHALL BE SUBMITTED TO THE OWNER FOR REVIEW PRIOR TO ISSUANCE OF NOTICE-TO-PROCEED. CHANGES IN SCHEDULE SHALL BE PRESENTED TO OWNER AND ENGINEER AT LEAST 7 DAYS PRIOR TO PROPOSED IMPLEMENTATION. THESE SCHEDULES, SCHEMATICS AND DIAGRAMS SHALL BE UPDATED WEEKLY AS THE WORK PROGRESSES. MOST CHANGE OVER SHALL BE DONE ON WEEKENDS OR AFTER HOURS.

SUBMITTALS

- CONTRACTOR SHALL PROVIDE SUBMITTALS FOR ALL EQUIPMENT, MATERIALS, PROCESSES AND SCHEDULES AND AS REQUESTED BY ENGINEER.

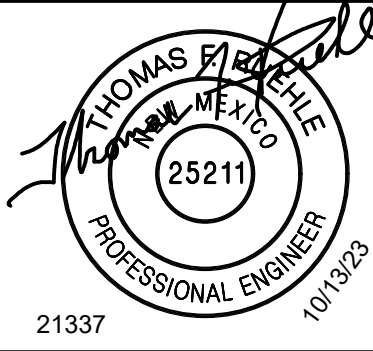


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DBS&A
Daniel B. Stephens & Associates, Inc.



21337

TOWN OF TAOS
TAOS COUNTY, NEW MEXICO

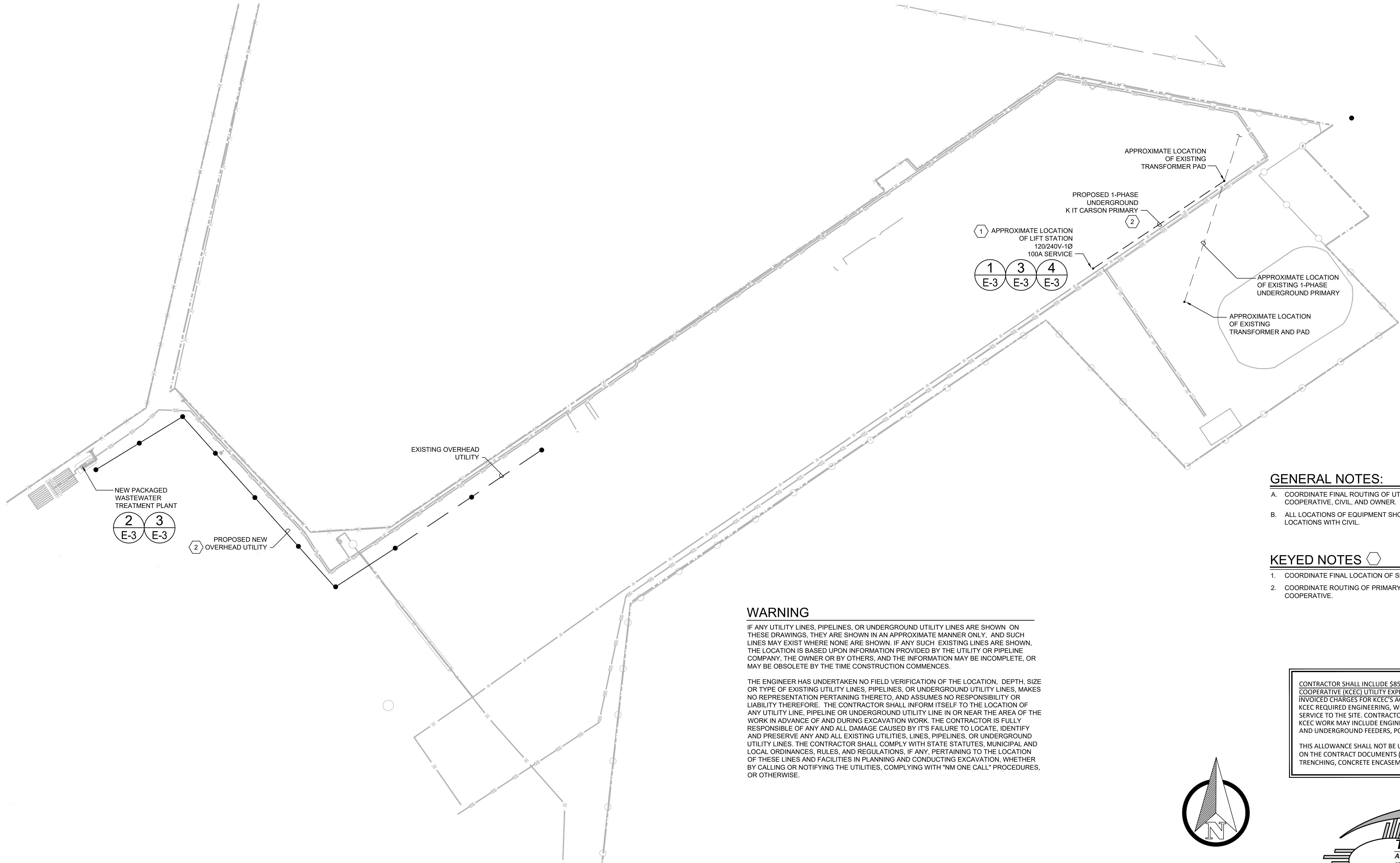
TAOS REGIONAL AIRPORT WATER
AND WASTEWATER IMPROVEMENTS
TAOS COUNTY, NM

ELECTRICAL LEGEND AND NOTES

SHEET
DWG NO. E-1

JOB NO.
DB21.1270

F:\21337 TAOS AIRPORT BOOSTER STATIONS\21337 CADD\CONSTRUCT\ELECTRICAL\E-2 WATER AND WASTEWATER - ELECTRICAL SITE PLAN.DWG October 13, 2023 -- 8:49 AM By: TOM RUEHLE



- GENERAL NOTES:**
- A. COORDINATE FINAL ROUTING OF UTILITY EXTENSIONS WITH KIT CARSON ELECTRIC COOPERATIVE, CIVIL, AND OWNER.
 - B. ALL LOCATIONS OF EQUIPMENT SHOWN ARE APPROXIMATE. COORDINATE FINAL LOCATIONS WITH CIVIL.

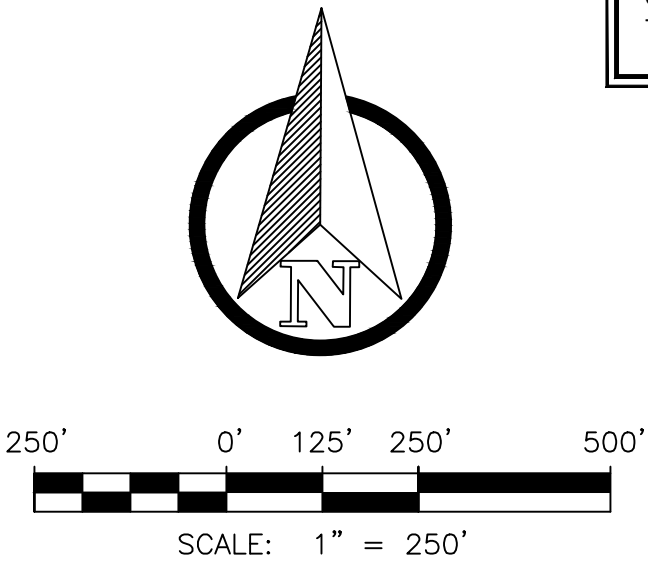
- KEYED NOTES**
- 1. COORDINATE FINAL LOCATION OF SERVICE AND EQUIPMENT PRIOR TO INSTALLATION.
 - 2. COORDINATE ROUTING OF PRIMARY EXTENSION WITH KIT CARSON ELECTRIC COOPERATIVE.

WARNING

IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE UTILITY OR PIPELINE COMPANY, THE OWNER OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES.

THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFORE. THE CONTRACTOR SHALL INFORM ITSELF TO THE LOCATION OF ANY UTILITY LINE, PIPELINE OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE OF ANY AND ALL DAMAGE CAUSED BY IT'S FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES, AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "NM ONE CALL" PROCEDURES, OR OTHERWISE.

WATER AND WASTEWATER - ELECTRICAL SITE PLAN



CONTRACTOR SHALL INCLUDE \$85,000 IN BID FOR KIT CARSON ELECTRIC COOPERATIVE (KCEC) UTILITY EXPENSES. THIS ALLOWANCE IS FOR KCEC INVOICED CHARGES FOR KCEC'S AGREEMENT FOR SERVICE CONTRACT, AND KCEC REQUIRED ENGINEERING, WORK AND CHARGES TO BRING ELECTRICAL SERVICE TO THE SITE. CONTRACTOR SHALL MAKE PAYMENTS DIRECTLY TO KCEC. KCEC WORK MAY INCLUDE ENGINEERING, SWITCHGEAR, PRIMARY OVERHEAD AND UNDERGROUND FEEDERS, POWER POLES, TRANSFORMERS, METERS, ETC.

THIS ALLOWANCE SHALL NOT BE USED FOR CONTRACTOR'S WORK IDENTIFIED ON THE CONTRACT DOCUMENTS (TRANSFORMER CONCRETE PADS, CONDUITS, TRENCHING, CONCRETE ENCASEMENT, CONDUIT STUB OUTS, BOLLARDS, ETC.).

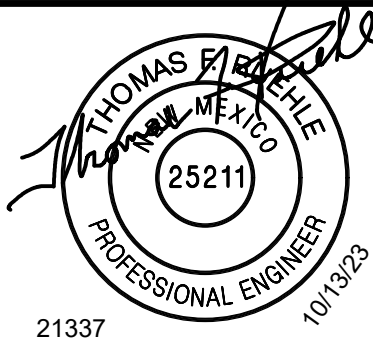


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21337

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TAOS COUNTY, NEW MEXICO

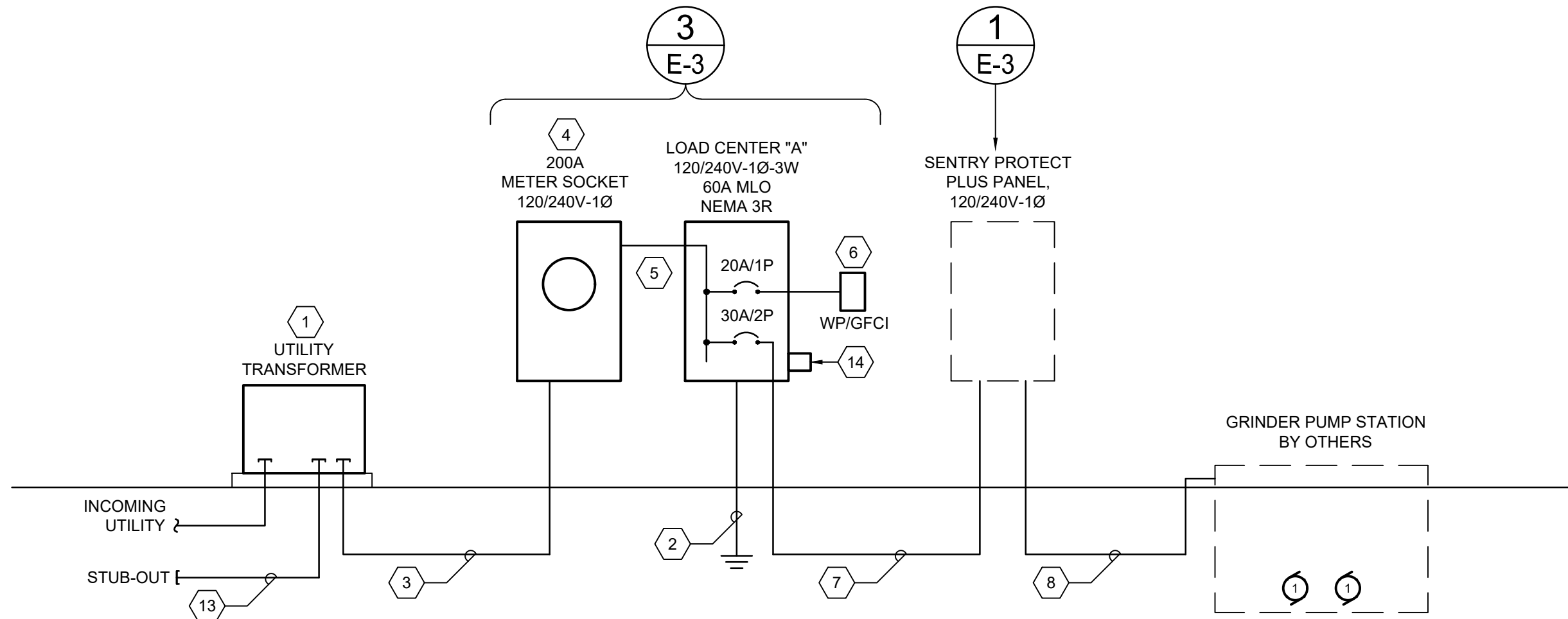
TAOS REGIONAL AIRPORT WATER
AND WASTEWATER IMPROVEMENTS
TAOS COUNTY, NM

OVERALL ELECTRICAL SITE PLAN

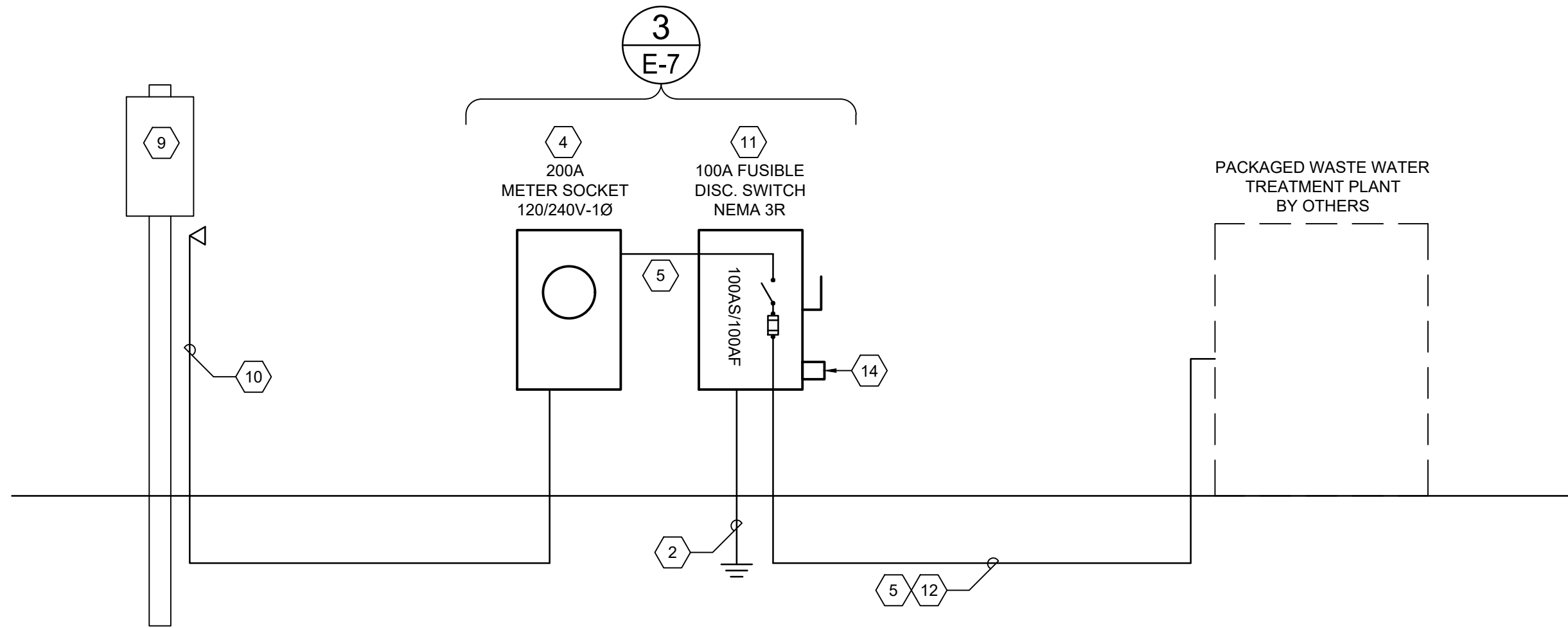
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DWG NO. E-2

JOB NO.
DB21.1270

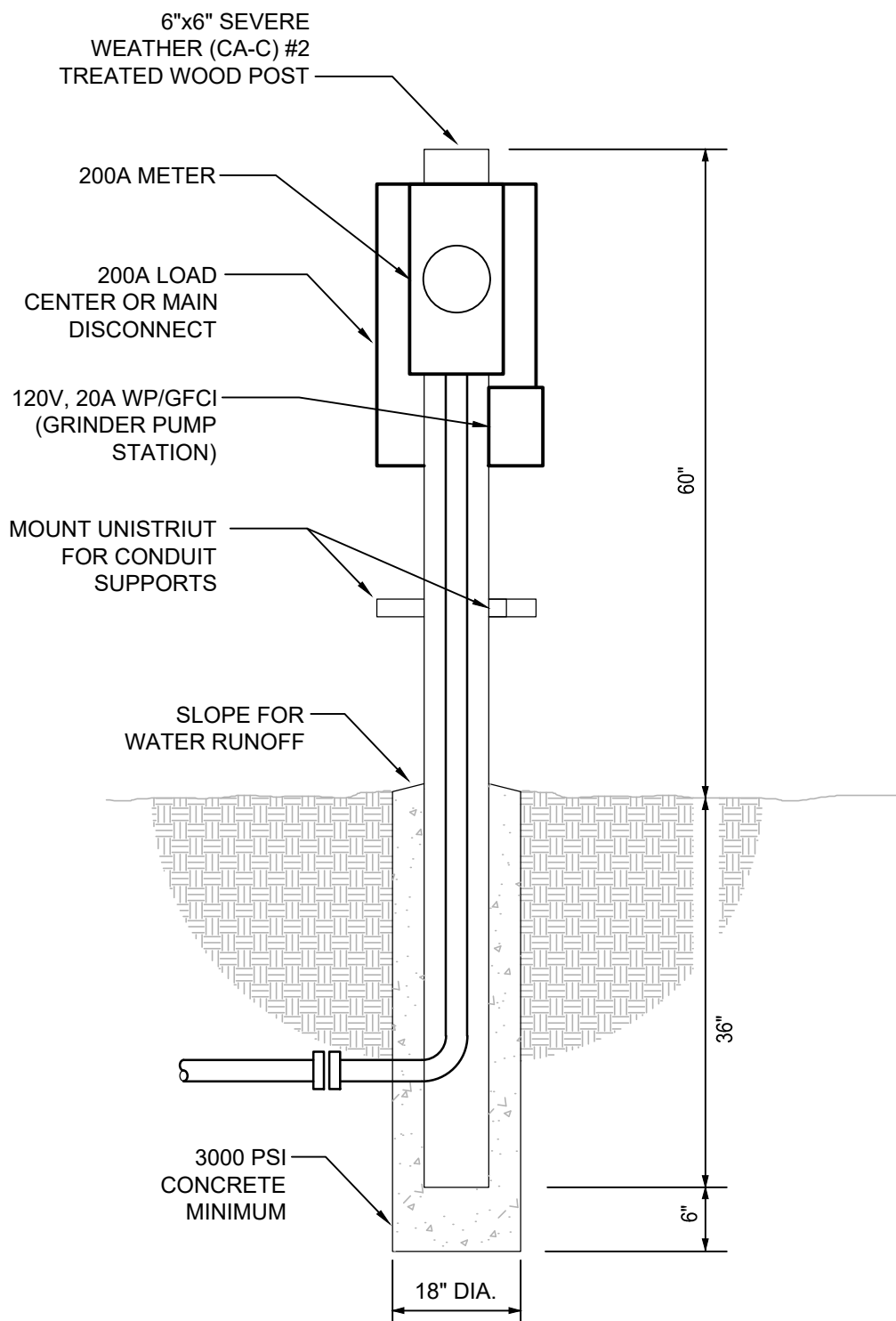
FA:\21337 TAOS AIRPORT BOOSTER STATIONS\21337 CADD\CONSTRUCT\ELECTRICAL\E-3 POWER RISERS & SCHEDULES - LS & WYTP.DWG October 13, 2023 - 9:17 AM BY: TOM RUEHLE



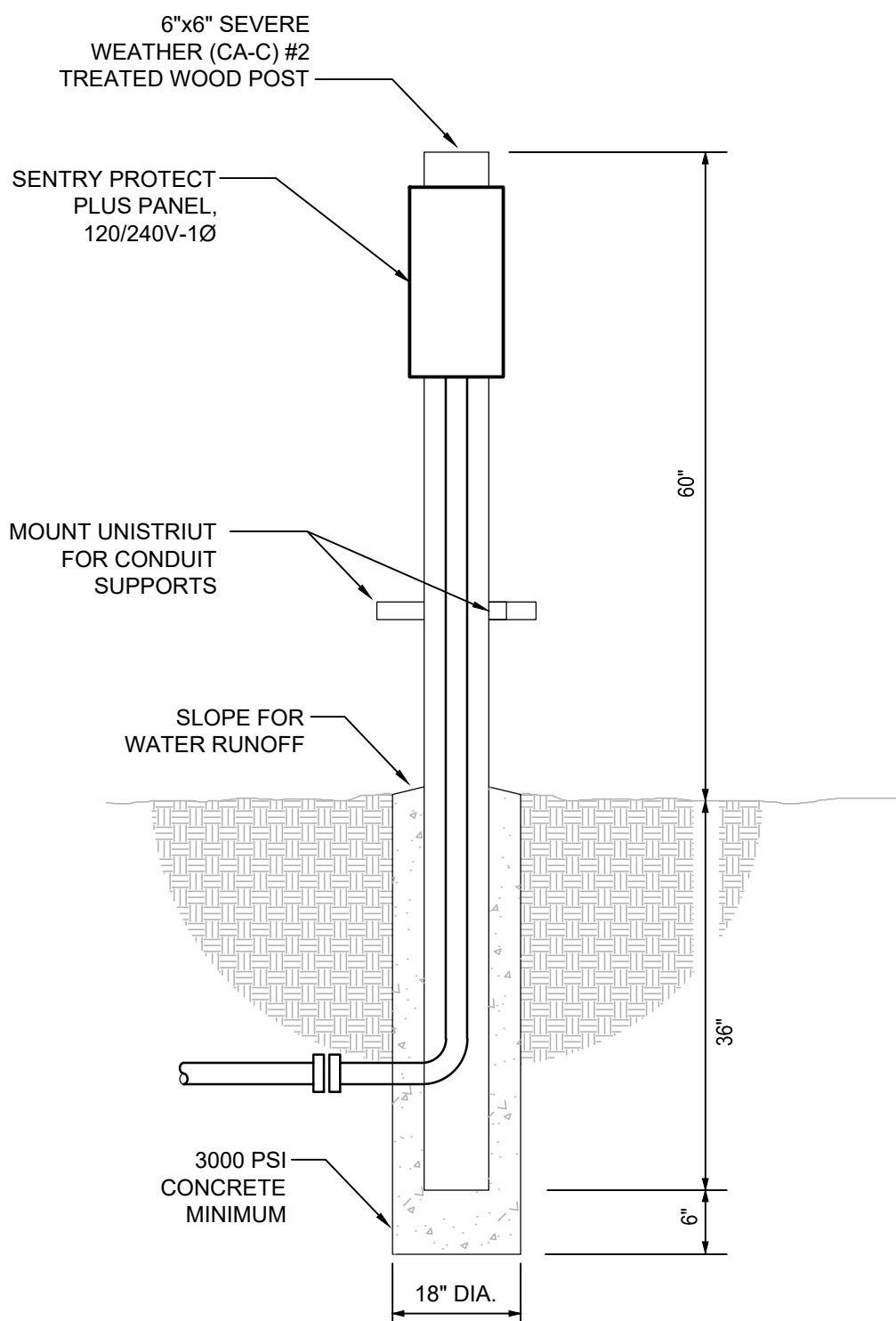
GRINDER PUMP STATION - POWER RISER DIAGRAM 4
SCALE: NONE E-3



PACKAGED WASTE WATER TREATMENT PLANT - POWER RISER DIAGRAM 2
SCALE: NONE E-3



ELECTRIC SERVICE PEDESTAL DETAIL 3
SCALE: NONE E-3



GRINDER PUMP CONTROLLER PEDESTAL DETAIL 1
SCALE: NONE E-3

GENERAL NOTES

A. COORDINATE FINAL UTILITY LOCATION AND REQUIREMENTS WITH KIT CARSON ELECTRICAL COOPERATIVE.

KEYED NOTES

- COORDINATE FINAL REQUIREMENTS WITH KIT CARSON ELECTRIC COOPERATIVE (KCEC). CONTRACTOR SHALL PROVIDE AND INSTALL TRANSFORMER PAD PER KCEC REQUIREMENTS.
- GROUNDING PER GROUNDING SYSTEM RISER DIAGRAM, SHEET E-9.
- PROVIDE AND INSTALL 3#2 THWN CU IN 1-1/4" CONDUIT -OR- 3#1/0 XHHW AL IN 1-1/2" CONDUIT.
- PROVIDE AND INSTALL 200A, 120/240V-1Ø METER SOCK PER KCEC REQUIREMENTS.
- PROVIDE AND INSTALL 3#2 THWN CU AND 1#8 CU GROUND IN 1-1/4" CONDUIT -OR- 3#1/0 XHHW AL AND 1#6 AL GROUND IN 1-1/2" CONDUIT.
- PROVIDE AND INSTALL A 20A, 120V DUPLEX, WEATHER RESISTANCE, GFCI DUPLEX RECEPTACLE IN A METAL, WHILE-IN-USE WEATHERPROOF ENCLOSURE. MOUNT ON WOOD PEDESTAL.
- PROVIDE AND INSTALL 3#10 THWN CU AND 1#10 CU GROUND IN 1" CONDUIT. EXTEND FROM LOAD CENTER TO SENTRY PLUS PANEL. COORDINATE LOCATION AND ROUTING IN THE FIELD.
- PROVIDE AND INSTALL 2 PARALLEL RUNS OF CONTROL CABLE: TYPE TC, DIRECT BURIAL, 6 CONDUCTOR CABLE PER MANUFACTURERS RECOMMENDATIONS. EXTEND FROM SENTRY PLUS PANEL TO DUPLEX GRINDER PUMP STATION. COORDINATE LOCATION AND ROUTING IN THE FIELD. CONTRACTOR SHALL MAKE ALL FINAL TERMINATIONS AS REQUIRED.
- NEW POLE MOUNTED KCEC OVERHEAD TRANSFORMER. 120/240V-1Ø.
- PROVIDE AND INSTALL 2" CONDUIT RISER WITH WEATHER HEAD WITH 3#2 THWN CU -OR- 3#1/0 XHHW AL PER KCEC REQUIREMENTS.
- PROVIDE AND INSTALL A 240V, 100A, 2P, NORMAL-DUTY, FUSIBLE DISCONNECT SWITCH IN NEMA 3R ENCLOSURE. FUSE AT 100 AMPERES.
- EXTEND FROM FUSIBLE DISCONNECT SWITCH TO PACKAGED WASTE WASTE TREATMENT PLANT. CONTRACTOR SHALL MAKE ALL FINAL TERMINATIONS AS REQUIRED.
- PROVIDE AND INSTALL A 3" CONDUIT STUB-OUT THAT SHALL EXTEND 5'-0" FROM TRANSFORMER PAD. PROVIDE AND INSTALL PER KCEC REQUIREMENTS.
- PROVIDE AND INSTALL 120/240V-1Ø, 4-WIRE LIGHTING SURGE ARRESTOR. DELTA LA302G OR OWNER AND ENGINEER APPROVED EQUAL.

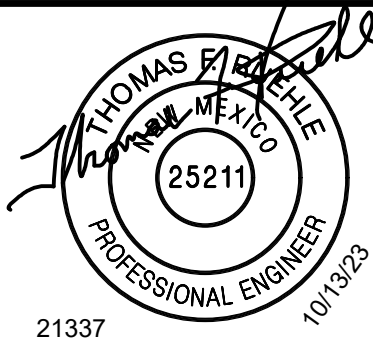


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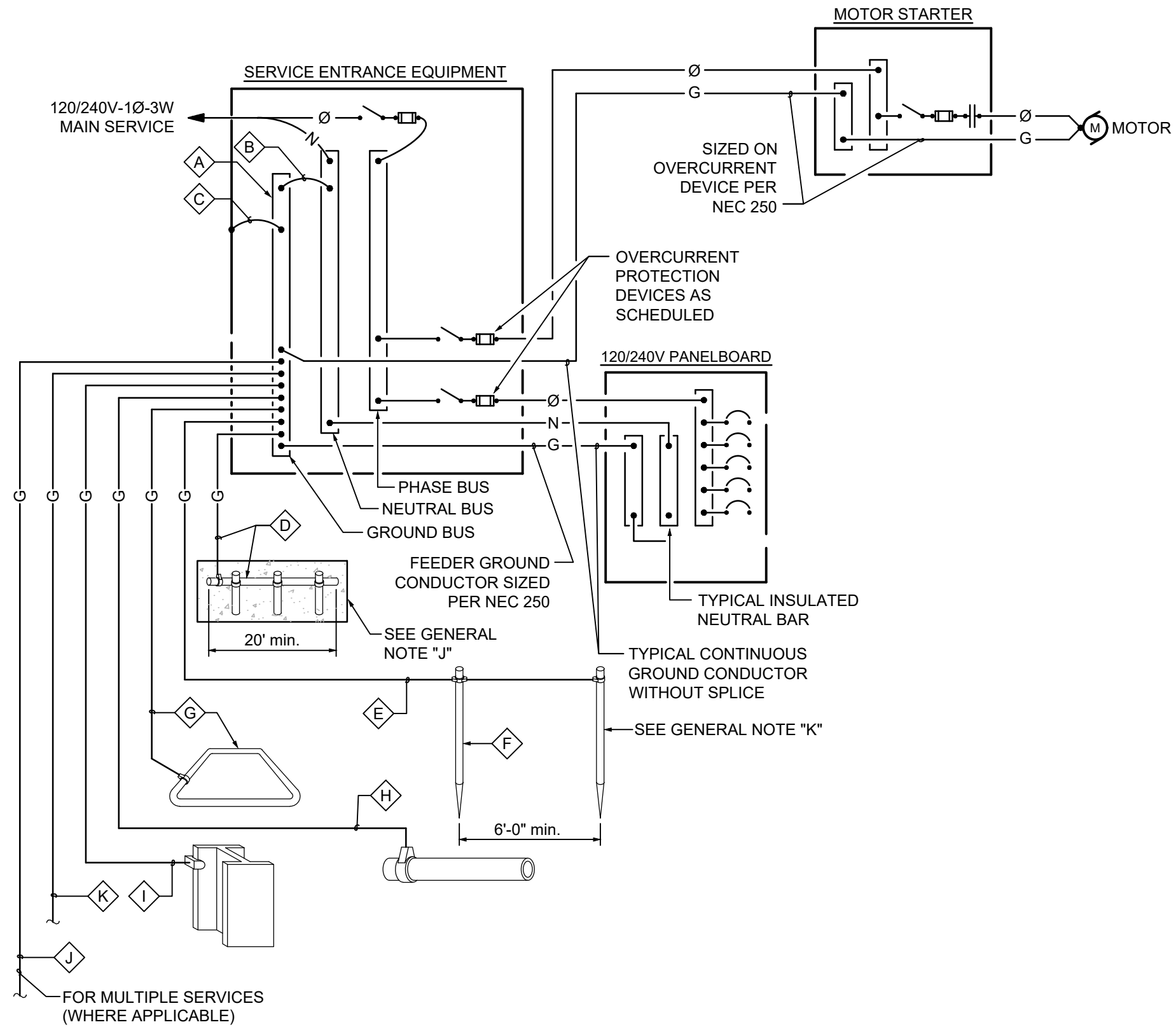


TOWN OF TAOS
TAOS COUNTY, NEW MEXICO

TAOS REGIONAL AIRPORT WATER
AND WASTEWATER IMPROVEMENTS
TAOS COUNTY, NM
GRINDER STATION & WWTP -
POWER RISER DIAGRAMS & DETAILS

SHEET
DWG NO. E-3

JOB NO.
DB21.1270



GROUNDING SCHEDULE											
	A FACTORY INSTALLED GROUND BUS BAR	B INTEGRATED BUS BAR MAIN BOND JUMPER	C INTEGRATED BUS BAR CASE BOND JUMPER	D CONCRETE ENCASED ELECTRODE (UFER)	E GROUNDING ELECTRODE CONDUCTOR TO ROD, PIPE OR PLATE	F CU or CU-CLAD STEEL GROUND ROD	G COPPER GROUND RING CONDUCTOR	H METALLIC PIPING BONDING CONDUCTOR	I BUILDING STEEL BONDING CONDUCTOR	J MULTIPLE SERVICE BONDING CONDUCTOR	K TELEPHONE SYSTEM GROUNDING CONDUCTOR
CODE REFERENCE AMPACITY		N.E.C. 250.102(C)	N.E.C. 250.102(C)	N.E.C. 250.52(A)(3) 250.66(B)	N.E.C. 250.52(A)(5) 250.52(A)(7) 250.66(A)	N.E.C. 250.52(A)(5)	N.E.C. 250.52(A)(4) 250.66(C)	N.E.C. 250.52(A)(1) 250.66	N.E.C. 250.50(A)(2) 250.66	N.E.C. 250.66	.
200 AMP	SHALL BE SIZED TO ACCOMMODATE ALL GROUND WIRE LUGS AS INDICATED ON GROUNDING DIAGRAM AND/OR REFERENCED ELSEWHERE ON PLANS OR SPECIFICATIONS	#4	#4	#4	#6	5/8"x8"	#2	#4	#4	#4	#6
225 AMP		#2	#2	#4	#6	5/8"x8"	#2	#2	#2	#2	#6
400 AMP		#1/0	#1/0	#4	#6	5/8"x8"	#1/0	#1/0	#1/0	#1/0	#6
600 AMP		#2/0	#2/0	#4	#6	5/8"x8"	#2/0	#2/0	#2/0	#2/0	#6
800 AMP		#3/0	#3/0	#4	#6	5/8"x8"	#2/0	#2/0	#2/0	#2/0	#6
1000 AMP		#3/0	#3/0	#4	#6	5/8"x8"	#3/0	#3/0	#3/0	#3/0	#6
1200 AMP		250kcMIL	250kcMIL	#4	#6	5/8"x8"	#3/0	#3/0	#3/0	#3/0	#6
1600 AMP		350kcMIL	350kcMIL	#4	#6	5/8"x8"	#3/0	#3/0	#3/0	#3/0	#6
2000 AMP		400kcMIL	400kcMIL	#4	#6	5/8"x8"	#3/0	#3/0	#3/0	#3/0	#6
2500 AMP		500kcMIL	500kcMIL	#4	#6	5/8"x8"	#3/0	#3/0	#3/0	#3/0	#6
3000 AMP		500kcMIL	500kcMIL	#4	#6	5/8"x8"	#3/0	#3/0	#3/0	#3/0	#6

GROUNDING SYSTEM DIAGRAM
NOT TO SCALE

120/240V

SCALE: NONE
1
E-4

- GROUNDING SYSTEM GENERAL NOTES**
- A. THE GROUNDING ELECTRODE SYSTEM SHALL CONSIST OF ITEMS **A**, **B**, **C**, **D**, **E**, **F** AND **G**, WHERE APPLICABLE.
- B. ITEMS **H**, **I** AND **J** MUST BE BONDED TOGETHER AND TO THE GROUNDING ELECTRODE SYSTEM WHEN THEY ARE PRESENT.
- C. ITEM **D** CONCRETE ENCASED ELECTRODE (UFER) SHALL HAVE UFER SUPPORT CONSISTING OF 5/8" x 10" COPPER GROUND ROD CUT INTO 2' SECTIONS AND DRIVEN FOR SUPPORT OF UFER CONDUCTOR. ONLY COPPER TO COPPER CONNECTIONS ARE ACCEPTABLE. DO NOT USE RE-BAR FOR UFER SUPPORT. (THIS IS TO AVOID THE HARMFUL EFFECTS OF DISSIMILAR METALS IN CONTACT.) A U.L. LISTED COPPER TO RE-BAR CLAMP (SUCH AS GRAVES' JONES BOND® SYSTEM) IS AN APPROVED ALTERNATIVE.
- D. THIS DETAIL IS PROVIDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, ARTICLE 250, PERTAINING TO THE "GROUNDING ELECTRODE SYSTEM".
- E. ALL SPLICING AND UNDERGROUND CONNECTIONS SHALL BE ACCOMPLISHED VIA EXOTHERMIC WELD (CAD-WELD) ONLY.
- F. ALL CONDUCTOR SIZING INDICATED ON THE GROUNDING SCHEDULE ARE FOR COPPER CONDUCTORS. ALUMINUM IS NOT PERMITTED.
- G. ANY VARIANCES FROM THIS DIAGRAM AND ASSOCIATED SCHEDULE AND NOTES MUST BE REQUESTED AND APPROVED IN WRITING PRIOR TO INSTALLATION.
- H. ALL INSTALLATIONS SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF N.E.C. ARTICLE 250 (ALL SUBPARAGRAPHS) AND ALL STATE AND LOCAL REQUIREMENTS.
- I. THE GROUNDING SYSTEM SHALL PROVIDE LESS THAN (4) FOUR OHMS RESISTANCE TO GROUND AT THE SERVICE CONNECTION. THE RESULTS SHALL BE VERIFIED BY AN INDEPENDENT TESTING AGENCY VIA GROUND TEST (FALL-OF-POTENTIAL) AND SUBMITTED TO ELECTRICAL ENGINEER UPON COMPLETION OF PROJECT.
- J. IF A 20'-0" LONG (MINIMUM) CONCRETE ENCASED ELECTRODE IS NOT AVAILABLE, CONTRACTOR MAY INSTALL A 20'-0" (MINIMUM) UFER GROUND 30" BELOW GRADE WITH AT LEAST TWO GROUND RODS (ONE AT EACH END).
- K. PROVIDE SECOND GROUND ROD AT LEAST 6'-0" FROM INITIAL GROUND ROD.

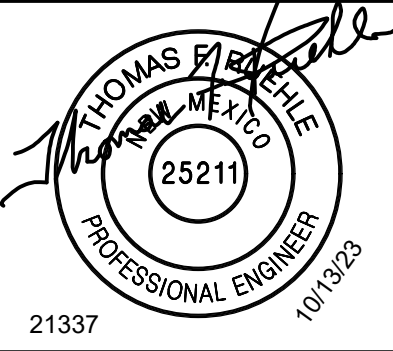


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