

	1	2	3	4	5	6	7	8	9	10	11	12	
	STANDARD ABBREVIATIONS												
J	@	AT		HORIZ	HORIZONTAL	TMH	TELEPHONE MANHOLE						
	ABC	AGGREGATE BASE COURSE		HP	HORSEPOWER	TS&V	TAPPING SLEEVE AND VALVE						
	ACP	ASBESTOS CEMENT PIPE		HO	HAND OPERATED	TYP	TYPICAL						
	ALT	ALTERNATE				UGE	UNDERGROUND ELECTRICAL						
	ALUM	ALUMINUM	INF	INF	INFLUENT	UV	ULTRA-VIOLET						
	AM	AIR METER	INV	INV	INVERT	UW	UTILITY WATER						
	APPROX	APPROXIMATELY	IWBW		INJECTION WELL BACKWASH	V	VOLTS						
	AR	AIR RELEASE VALVE	IWI		INJECTION WELL INFLUENT	VAC	VOLTS ALTERNATING CURRENT						
	ARVR	AIR AND VACUUM RELEASE VALVE	IW		IRRIGATION WATER	VB	VALVE BOX						
	AVG	AVERAGE	KG		KNIFE GATE VALVE	VCP	VITRIFIED CLAY PIPE						
I	ARV	AIR VACUUM RELEASE		L	LONG or LENGTH	VEL	VELOCITY						
				LF	LINEAR FEET	VERT	VERTICAL						
	BA	BALL VALVE		LT	LEFT	W	WEST or WIDE or WIDTH						
	BC	BALL CHECK VALVE				W/	WITH						
	BEFP	BELT FILTER PRESS	M		METER	WAS	WASTE ACTIVATED SLUDGE						
	BF	BLIND FLANGE or BACKFLUSH or BUTTERFLY VALVE	MAG		MARICOPA ASSOCIATION OF GOVERNMENTS	WD	WIDE						
	BFP	BACKFLOW PREVENTER				WS	WATER SURFACE						
	BLDG	BUILDING	MAX		MAXIMUM								
	BOT	BOTTOM	MECH		MECHANICAL								
	BP	BACK PRESSURE REGULATING VALVE	MGD		MILLION GALLONS PER DAY								
H	BYP	BYPASS	MH		MANHOLE								
			MIN		MINIMUM								
	CC	CENTER-TO-CENTER	MJ		MECHANICAL JOINT								
	CEN	CENTRATE	ML		MIXED LIQUOR								
	CFM	CUBIC FEET (OF STANDARD AIR) PER MINUTE	MLR		MIXED LIQUOR RETURN								
	CIP	CLEAN IN PLACE											
	CIT	CITRIC ACID SOLUTION	N		NORTH								
	CK	CHECK VALVE	NA		NOT APPLICABLE								
	CL	CENTERLINE	NaHSO3		SODIUM BISULFITE								
	CL2	CHLORINE	NaOCl		SODIUM HYPOCHLORITE								
G	CLDI	CEMENT LINED DUCTILE IRON	NaOH		SODIUM HYDROXIDE								
	CMU	CEMENT MASONRY UNIT	NC		NORMALLY CLOSED								
	C/O	CLEAN OUT	NO		NORMALLY OPEN or NUMBER								
	CONC	CONCRETE	NOM		NOMINAL								
	CONN	CONNECTION	NPT		NATIONAL PIPE THREAD								
	CONV	CONVEYOR	NPW		NON-POTABLE WATER								
	CPLG	COUPLING											
	CPVC	CHLORINATED POLYVINYL CHLORIDE	OA		OUTSIDE AIR								
	CS	CARBON STEEL	OD		ODOR CONTROL DUCT								
	CSP	CORRUGATED STEEL PIPE	OF		OVERFLOW								
F	CW	CHAIN WHEEL	OHE		OVERHEAD ELECTRIC POWER LINES								
	C/W	COMPLETE WITH	OPP		OPPOSITE								
	CWSD	CHEMICAL WET SCRUBBER DRAIN											
	CWS	CHEMICAL WET SCRUBBER	PA		PROCESS AIR								
	D	DRAIN or DEEP or DEPTH	PD		PLAINT DRAIN								
	DC	DOUBLE CONTAINED	PE		PLAIN END								
	DE	DISINFECTED EFFLUENT	PEF		PRIMARY EFFLUENT								
	DI	DUCTILE IRON	PI		PLANT INFLUENT								
	DIA	DIAMETER	P.I.P		PROTECT IN PLACE								
	DIP	DUCTILE IRON PIPE	PL		PROPERTY LINE								
E	DP	DAMPER	PG		PLUG VALVE								
	DS	DIGESTED SLUDGE	PM		PERMEATE								
	DTL	DETAIL	PR		PRESSURE RELIEF VALVE								
	DWG	DRAWING	PRV		PRESSURE REDUCING VALVE								
	DWS	DEWATERED SLUDGE	PVC		POLYVINYL CHLORIDE								
			PW		POTABLE WATER								
	E	EAST or ELECTRIC	PN		PNEUMATIC								
	EA	EACH OR ELECTRIC ACTUATOR											
	EAS	EXTENDED AERATION SYSTEM	R		RADIUS								
	ECC	ECCENTRIC	RCP		REINFORCED CONCRETE PIPE								
D	EDB	ELECTRICAL DUCT BANK	RED		REDUCER or REDUCING								
	EFF	EFFLUENT	REQ'D		REQUIRED								
	EL	ELEVATION	RH		RELATIVE HUMIDITY								
	ELEC	ELECTRIC	RI		RAW INFLUENT								
	EMH	ELECTRICAL MANHOLE	ROW		RIGHT-OF-WAY								
	EPA	ENVIRONMENTAL PROTECTION AGENCY	RPM		REVOLUTIONS PER MINUTE								
	EPDM	ETHYLENE PROPYLENE DIENE MONOMER	RS		RAW SEWAGE								
	EQUIP	EQUIPMENT	RT		RIGHT								
	EXIST	EXISTING	S		SOUTH or SLUDGE								
	FA	FOUL AIR	SB		SCREEN BYPASS								
C	FBW	FILTER BACKWASH WASTE	SBR		SEQUENCING BATCH REACTOR								
	FC	FLEXIBLE CONNECTOR	SBRE		SBR EFFLUENT								
	FCA	FLANGED COUPLING ADAPTER	SBRI		SBR INFLUENT								
	FD	FLOOR DRAIN	SBS		SODIUM BISULFITE								
	FE	FILTER EFFLUENT	SBW		SCREEN BACKWASH								
	FH	FIRE HYDRANT	SCR		SCREEN								
	FI	FILTER INFLUENT	SE		SCREEN EFFLUENT								
	FLG	FLANGE	SEC		SECTION								
	FLGD	FLANGED	SEF		SECONDARY EFFLUENT								
	FM	FORCE MAIN	SER		SECONDARY EFFLUENT RECYCLE								
B	FPM	FEET PER MINUTE	SG		SLUICE GATE								
	FR	FILTRATE REJECT	SI		SCREEN INFLUENT								
	FRP	FIBERGLASS REINFORCED PLASTIC	SIM		SIMILAR								
	FT	FOOT or FEET	SLG		SLIDE GATE								
	G	GRIT	SMP		SAMPLE								
	GA	GAUGE	SN		SUPERNATANT								
	GAL	GALLON	SP IN WG		STATIC PRESSURE INCHES OF WATER GAUGE								
	GALV	GALVANIZED	SPECS		SPECIFICATIONS								
	GE	GRIT EFFLUENT	SQ		SQUARE								
	GLDI	GLASS LINED DUCTILE IRON	SS		SANITARY SEWER								
A	GV	GLOBE VALVE	SST		STAINLESS STEEL								
	GPM	GALLONS PER MINUTE	STA		STATION								
	GRV	GROOVED	STD		STANDARD								
	GV	GATE VALVE	STL		STEEL								
	GW	GROUNDWATER	SV		SOLENOID VALVE								
			T		TELEPHONE								
	H	HIGH or HEIGHT	TEMP		TEMPERATURE or TEMPORARY								
	HDPE	HIGH DENSITY POLYETHYLENE											
	HDWKS	HEADWORKS											
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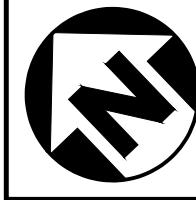
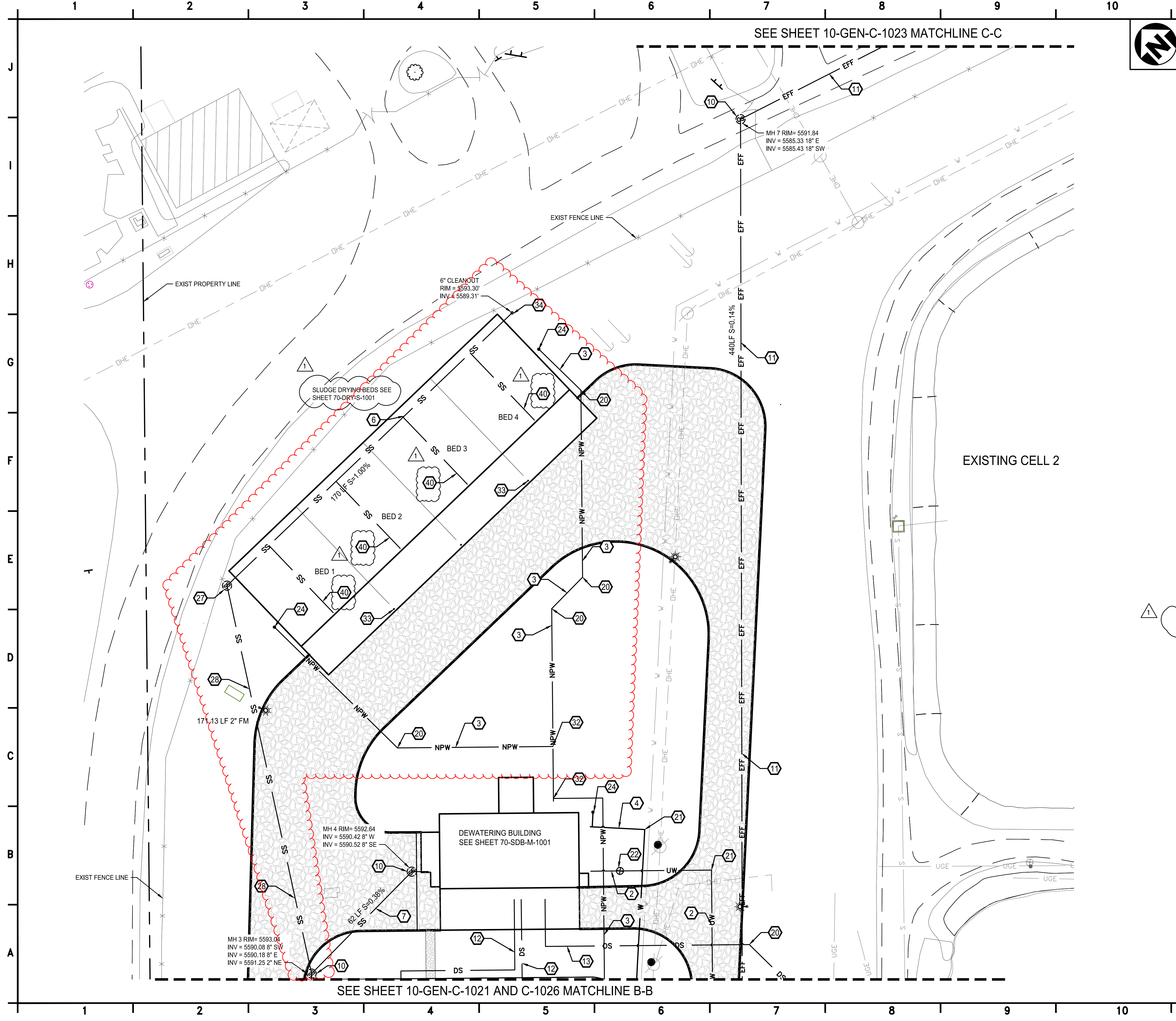
GENERAL NOTES

1. UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, ALL MATERIAL AND WORKMANSHIP OF THIS PROJECT SHALL BE IN ACCORDANCE WITH THE FOLLOWING ORDER OF PRECEDENCE:  
A. THE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2020 EDITION (REFERRED TO HEREIN BY MAG SPEC/SECTION, STD SPEC/SECTION, MAG AND STD DETAIL).  
B. THE NAVAJO NATION AREA INDIAN HEALTH SERVICE (IHS) STANDARD DETAILS FOR WATER [REV 3.2] AND SEWER [REV 1.9].
2. IF DURING THE COURSE OF THE WORK THE CONTRACTOR BECOMES AWARE OF A CONTRADICTION IN THE REQUIREMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
3. SUBMISSION OF A PRICE WILL CONSTITUTE AN INCONVERTIBLE REPRESENTATION BY CONTRACTOR THAT CONTRACTOR HAS COMPLIED WITH ALL CONTRACT REQUIREMENTS AND THAT WITHOUT EXCEPTION THE PRICE IS PREMISED UPON PERFORMING AND FURNISHING THE WORK REQUIRED BY THE CONTRACT DOCUMENTS AND APPLYING ANY SPECIFIC MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION THAT MAY BE SHOWN OR INDICATED OR EXPRESSLY REQUIRED BY THE CONTRACT DOCUMENTS, THAT CONTRACTOR HAS GIVEN ENGINEER WRITTEN NOTICE OF ALL CONFLICTS, ERRORS, AMBIGUITIES, AND DISCREPANCIES THAT CONTRACTOR HAS DISCOVERED IN THE CONTRACT DOCUMENTS AND THE WRITTEN RESOLUTIONS THEREOF BY ENGINEER ARE ACCEPTABLE TO CONTRACTOR, AND THAT THE CONTRACT DOCUMENTS ARE GENERALLY SUFFICIENT TO INDICATE AND CONVEY UNDERSTANDING OF ALL TERMS AND CONDITIONS FOR PERFORMING AND FURNISHING THE WORK.
4. BEFORE UNDERTAKING EACH PART OF THE WORK, CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONTRACT DOCUMENTS AND CHECK AND VERIFY PERTINENT FIGURES THEREIN AND ALL APPLICABLE FIELD MEASUREMENTS. CONTRACTOR SHALL PROMPTLY REPORT IN WRITING TO ENGINEER ANY CONFLICT, ERROR, AMBIGUITY, OR DISCREPANCY WHICH CONTRACTOR DISCOVERS, OR HAS ACTUAL KNOWLEDGE OF, AND SHALL OBTAIN A WRITTEN INTERPRETATION OR CLARIFICATION FROM ENGINEER BEFORE PROCEEDING WITH ANY WORK AFFECTED THEREBY. IF, DURING THE PERFORMANCE OF THE WORK, CONTRACTOR DISCOVERS ANY CONFLICT, ERROR, AMBIGUITY, OR DISCREPANCY WITHIN THE CONTRACT DOCUMENTS, OR BETWEEN THE CONTRACT DOCUMENTS AND (A) ANY APPLICABLE LAW OR REGULATION, (B) ANY STANDARD, SPECIFICATION, MANUAL, OR CODE, OR (C) ANY INSTRUCTION OF ANY SUPPLIER, THEN CONTRACTOR SHALL PROMPTLY REPORT IT TO ENGINEER IN WRITING. CONTRACTOR SHALL NOT PROCEED WITH THE WORK AFFECTED THEREBY (EXCEPT IN AN EMERGENCY) UNTIL AN AMENDMENT OR SUPPLEMENT TO THE CONTRACT DOCUMENTS HAS BEEN ISSUED.
5. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE OF APPLICABLE PORTIONS OF THE EPA STORM WATER DISCHARGE REGULATIONS.
6. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND PERMIT COMPLIANCE REQUIRED FOR CONSTRUCTION OF THE PROJECT.
7. THE WORK DESCRIBED IN THESE PLANS WILL BE DONE IN EXISTING WASTEWATER TREATMENT FACILITIES THAT CONTAIN NUMEROUS EXISTING PIPES, ELECTRIC LINES, AND OTHER STRUCTURES. THE EXISTING WASTEWATER TREATMENT PLANT SHALL REMAIN IN OPERATION AT ALL TIMES AND SHALL NOT BE TAKEN OFF LINE UNTIL THE NEW SYSTEM IS IN FULL OPERATION AND ACCEPTED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ALL ITEMS DESCRIBED IN THESE PLANS IN A MANNER THAT PROTECTS THE EXISTING FACILITY. THE CONTRACTOR MUST CONTACT THE ENGINEER IMMEDIATELY IF THE CONTRACTOR CANNOT PERFORM THE WORK WITHOUT DAMAGE TO THE EXISTING FACILITY. THE CONTRACTOR MUST VERIFY ALL EXISTING INFORMATION SHOWN ON THESE PLANS. CHANGES IN ALIGNMENT CAUSED BY UNKNOWN OR UNANTICIPATED SITE CONDITIONS SHALL BE MEASURED AND PAID FOR BASED ON THE APPROVED SCHEDULE OF VALUES SUBMITTED BY THE CONTRACTOR.
8. THE LOCATION, SIZE, AND CONDITION OF UNDERGROUND UTILITIES AND STRUCTURES SHOWN IN THESE PLANS ARE BASED ON 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 LOCATING, PROTECTION OF, OR ANY DAMAGE TO THESE LINES OR STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES AND OBTAINING LINE SPOTS.
9. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY. THE CONTRACTOR SHALL IDENTIFY UTILITY LINES FAR ENOUGH IN ADVANCE OF CONSTRUCTION WORK, SO THAT THE OWNER OF SUCH LINES CAN RAISE, LOWER, REALIGN OR REMOVE LINES AND STRUCTURES (IF NECESSARY), AND THE ENGINEER CAN MAKE NECESSARY LINE AND GRADE CHANGES (SHOULD THE EXISTING UTILITY LINES CONFLICT WITH THE WORK UNDER CONSTRUCTION), PROVIDING SUCH ADJUSTMENTS DO NOT MATERIALLY AFFECT THE WORK.
10. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR COSTS OF REPAIR OF ANY AND ALL DAMAGE TO ANY UTILITY (WHICH IS PREVIOUSLY KNOWN, DISCLOSED, OR SHOWN ON THESE PLANS) CAUSED BY THE CONTRACTORS OPERATIONS.
11. FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NTUA FOR LOCATION OF EXISTING UTILITIES.
12. THE 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, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
13. UTILITY CONTACTS: GAS, SEWER, WATER, ELECTRIC: NTUA SAFETY DEPARTMENT 928-729-5721, TELEPHONE: FRONTIER COMMUNICATION 928-871-3748.
14. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES ADJACENT TO THE CONSTRUCTION AREA.
15. THE CONTRACTOR IS RESPONSIBLE FOR RECORDING EXISTING CONDITIONS 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.
16. THE CONTRACTOR SHALL IMMEDIATELY REPORT ANY DAMAGES TO PUBLIC OR PRIVATE PROPERTY TO THE OWNER OF THE PROPERTY INVOLVED AND TO THE ENGINEER. THE CONTRACTOR SHALL REPAIR OR RESTORE AT THE CONTRACTOR'S EXPENSE ANY DAMAGE TO PUBLIC OR PRIVATE PROPERTY, FOR WHICH THE CONTRACTOR IS DIRECTLY OR INDIRECTLY RESPONSIBLE, TO A CONDITION EQUAL TO THAT EXISTING BEFORE DAMAGE. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE CONTRACTORS INSURANCE CARRIER OF SUCH DAMAGE. IF THE CONTRACTOR FAILS TO GIVE SUCH NOTICE TO THE INSURANCE CARRIER OR REFUSES TO MAKE SUCH REPAIRS OR RESTORATION UPON RECEIPT OF NOTICE, THE OWNER MAY DEDUCT THE COST OF SUCH REPAIRS OR RESTORATION FROM MONEYS DUE, OR WHICH MAY BECOME DUE, TO THE CONTRACTOR.
17. THE LANDS WITHIN THE FENCE LINE OF THE WASTEWATER TREATMENT PLANT BELONG TO THE NAVAJO TRIBAL UTILITY AUTHORITY (NTUA). THE CONTRACTOR MAY USE THESE LANDS TO FACILITATE CONSTRUCTION WITH APPROVAL OF THE NTUA. A PREAPPROVED STAGING/STORAGE AREA IS SHOWN IN THE PLANS. THE CONTRACTOR SHALL AVOID ANY ACTIVITY IN AREAS THAT WOULD BE A POTENTIALLY SIGNIFICANT DISTURBANCE TO OPERATION AND MAINTENANCE OF THE WASTEWATER PLANT.
18. DEBRIS GENERATED BY CONSTRUCTION ACTIVITIES MAY BE STORED AT THE CONSTRUCTION SITE AT AN AREA IDENTIFIED BY THE WASTEWATER TREATMENT PLANT PERSONNEL. DEBRIS MAY BE STORED DURING CONSTRUCTION UPON STAGING AND STORAGE AREAS SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING SAFETY ISSUES ASSOCIATED WITH STORED DEBRIS AND SHALL PROVIDE FENCING AND/OR BARRICADING AROUND DEBRIS IF NECESSARY. PRIOR TO COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL DISPOSE OF DEBRIS AT A PERMITTED LANDFILL OR OTHER DULY CERTIFIED REFUSE FACILITY (INCIDENTAL TO THE PROJECT).
19. THE CONTRACTOR SHALL STOCK PILE ANY EXCESS EARTH ON-SITE AT A LOCATION DETERMINED.
20. THE CONTRACTOR SHALL PHASE AND SCHEDULE WORK IN SUCH A WAY AS TO PROVIDE FOR CONTINUOUS WASTEWATER TREATMENT DURING CONSTRUCTION. THE CONTRACTORS SCHEDULE SHALL INCLUDE FLOW SCHEMATICS AND PROCESS DIAGRAMS TO ILLUSTRATE FLOW ROUTING AND TREATMENT.
21. CONTRACTOR SHALL NOT LOAD NOR PERMIT ANY PART OF ANY STRUCTURE TO BE LOADED IN ANY MANNER THAT WILL ENDANGER THE STRUCTURE, NOR SHALL THE CONTRACTOR SUBJECT ANY PART OF THE WORK OR ADJACENT PROPERTY TO STRESSES OR PRESSURES THAT WILL ENDANGER IT.
22. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. SUCH RESPONSIBILITY DOES NOT RELIEVE SUBCONTRACTORS OF THEIR RESPONSIBILITY FOR THE SAFETY OF PERSONS OR PROPERTY IN THE PERFORMANCE OF THEIR WORK. NOR FOR COMPLIANCE WITH APPLICABLE SAFETY LAWS AND REGULATIONS. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF, AND SHALL PROVIDE THE NECESSARY PROTECTION TO PREVENT DAMAGE, INJURY OR LOSS TO:
- 22.1. ALL PERSONS ON THE SITE OR WHO MAY BE AFFECTED BY THE WORK;
- 22.2. ALL THE WORK AND MATERIALS AND EQUIPMENT TO BE INCORPORATED THEREIN, WHETHER IN STORAGE ON OR OFF THE SITE; AND
- 22.3. OTHER PROPERTY AT THE SITE OR ADJACENT THERETO, INCLUDING, BUT NOT LIMITED TO, TREES, SHRUBS, LAWNS, WALKS, PAVEMENTS, ROADWAYS, STRUCTURES, UTILITIES, AND UNDERGROUND FACILITIES NOT DESIGNATED FOR REMOVAL, RELOCATION, OR REPLACEMENT IN THE COURSE OF CONSTRUCTION.
- 22.4. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS RELATING TO THE SAFETY OF PERSONS OR PROPERTY, OR TO THE PROTECTION OF PERSONS OR PROPERTY FROM DAMAGE, INJURY, OR LOSS; AND SHALL ERECT AND MAINTAIN ALL NECESSARY SAFEGUARDS FOR SUCH SAFETY AND PROTECTION. CONTRACTOR SHALL NOTIFY OWNERS OF ADJACENT PROPERTY AND OF UNDERGROUND FACILITIES AND OTHER UTILITY OWNERS WHEN PROSECUTION OF THE WORK MAY AFFECT THEM, AND SHALL COOPERATE WITH THEM IN THE PROTECTION, REMOVAL, RELOCATION, AND REPLACEMENT OF THEIR PROPERTY.
- 22.5. CONTRACTOR SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF OWNER'S SAFETY PROGRAMS, IF ANY. THE SUPPLEMENTARY CONDITIONS IDENTIFY ANY OWNER'S SAFETY PROGRAMS THAT ARE APPLICABLE TO THE WORK.
- 22.6. CONTRACTOR SHALL INFORM OWNER AND ENGINEER OF THE SPECIFIC REQUIREMENTS OF CONTRACTOR'S SAFETY PROGRAM WITH WHICH OWNERS AND ENGINEERS EMPLOYEES AND REPRESENTATIVES MUST COMPLY WHILE AT THE SITE.
- 22.7. CONTRACTOR'S DUTIES AND RESPONSIBILITIES FOR SAFETY AND FOR PROTECTION OF THE WORK SHALL CONTINUE UNTIL SUCH TIME AS ALL THE WORK IS COMPLETED AND ENGINEER HAS ISSUED A NOTICE TO OWNER AND CONTRACTOR IN ACCORDANCE WITH THAT THE WORK IS ACCEPTABLE (EXCEPT AS OTHERWISE EXPRESSLY PROVIDED IN CONNECTION WITH SUBSTANTIAL COMPLETION).
23. IF THIS DRAWING IS OTHER THAN FULL SIZE (22"x34"), UTILIZE BAR SCALE IN LIEU OF NUMERIC SCALE.

24. ALL UTILITY MANHOLES, METERS CLEANOUTS, AND VALVES IMPACTED BY CONSTRUCTION TO BE FIELD LOCATED AND ADJUSTED TO GRADE. THIS SHALL BE INCIDENTAL TO THE PROJECT.
25. PERTINENT RELOCATION AND ADJUSTMENT OF THE EXISTING UTILITIES TO PERFORM THE WORK IS CONSIDERED INCIDENTAL AND SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
26. CONTRACTOR SHALL PROTECT THE EXISTING UNDERGROUND AND OVERHEAD UTILITIES INCLUDING, BUT NOT LIMITED TO, POWER, TELEPHONE, CABLE, WATER, GAS, AND SEWER. DURING THE CONSTRUCTION, UNLESS SPECIFIED, ALL UTILITIES SHALL REMAIN IN SERVICE DURING CONSTRUCTION TO SUPPORT THE EXISTING TREATMENT PLANT. CONTRACTOR IS RESPONSIBLE TO PLAN CONSTRUCTION ACTIVITIES AND SEQUENCE SUCH THAT THERE IS MINIMUM UTILITY SHUTDOWN REQUIRED. CONTRACTOR SHALL COORDINATE ANY POTENTIAL SHUTDOWNS WITH THE OWNER AND OPERATORS AT MINIMUM 48 HOURS PRIOR TO PROCEEDURE.
27. CONTRACTOR SHALL NOT OPEN/CLOSE VALVES OR GATES, OR SHUTDOWN EQUIPMENT THAT MAY IMPACT THE OPERATION WITHOUT THE OWNER AND THE OPERATOR APPROVAL.
28. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING UTILITIES. LOCATIONS SHOWN IN THESE PLANS ARE BASED ON HISTORIC AS BUILTS AND MIGHT BE DIFFERENT FROM ACTUAL CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES WITHN THE CONSTRUCTION BOUNDARIES. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING UTILITY DURING THE PROGRSS OF WORK, CONTRACTOR SHALL REPAIR THE DAMAGE AT NO ADDITIONAL COST TO THE OWNER.
29. CONTRACTOR IS RESPONSIBLE FOR RELOCATION OF THE EXISTING UTILITIES REQUIRED TO MINIMIZE DOWNTIME OF EXISTING TREATMENT FACILITIES.
30. ALL AREAS WHERE GROUND IS DISTURBED OR REGRADED BY CONSTRUCTION ACTIVITIES SHALL BE SEEDED WITH NATIVE SEEDING PER SPECIFICATION SECTION 329219.
- YARD PIPING
1. CONTRACTOR TO LOCATE AND VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION.
2. P.I.P. = PROTECT IN PLACE  
CONTRACTOR TO PROTECT ALL UTILITY CROSSINGS IN PLACE, SEE SPECIFICATION SECTION 601.
3. CONTRACTOR TO FOLLOW SITE RESTORATION PER REQUIREMENTS OF STD SECTION 601 AND SPECIFICATION SECTION 329219.
4. POTABLE UTILITY, AND NON-POTABLE WATER LINES TO BE INSTALLED WITH MIN 3 FT COVER.
5. CONTRACTOR SHALL PROVIDE JOINT RESTRAINTS FOR REQUIRED LENGTH OF PIPES PER STD DWG 303 AND THRUST BLOCK PER STD DWG 380. CONTRACTOR SHALL PROVIDE APPROPRIATE THRUST BLOCK WHEN TYING INTO EXISTING WATER AND SEWER LINES. ANY DAMAGE TO EXISTING UTILITIES DUE TO FAILURE OF MEETING THIS REQUIREMENT SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
6. ANY PIPE CROSSING LESS THAN 16" SHALL BE BACKFILLED WITH CLSM, PER STD SECTION 604.
7. SEPARATION OF WATER AND SEWER LINES SHALL BE PER IHS/NE CA TECHNICAL PROVISIONS - 3.10.
8. PIPE INSTALLATION SHALL INCLUDE MATERIALS, LABOR, EQUIPMENT, AND ALL INCIDENTAL ITEMS FOR COMPLETE INSTALLATION AND OPERATION OF THE WORK, INCLUDING BUT NOT LIMITED TO, PIPE, FITTINGS, JOINT RESTRAINTS, TRENCHING, COATING, WRAPPING, THRUST BLOCK, BACKFILLING, CLSM, COMPACTION, TESTING, UTILITY MARKERS, ELECTRIC MARKERS, AND DEVICES IN ACCORDANCE WITH STD REQUIREMENTS OF MAG PART 600. COMPLETE IN PLACE.
9. CONTRACTOR SHALL MAINTAIN MINIMUM OF 10 FT. HORIZONTAL CLEARANCE WITH EXISTING UTILITY POLES DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH NTUA, WHEN WORKING CLOSER THAN 10 FT TO EXISTIN POLES.
10. NO JOINT OR FITTING SHALL BE PLACED WITHIN 2 FT. (EITHER DIRECTION) OF ANY PIPE CROSSING.
11. PROVIDE MARKERS AND ELECTRIC TRACING DEVICES AT PIPE BENDS, VALVES, FITTINGS, CONNECTIONS, AND MANHOLES, TYP.





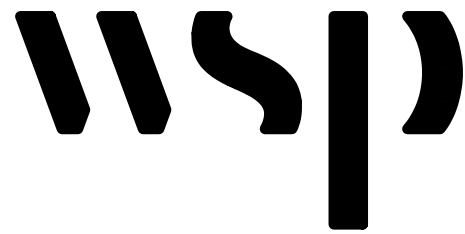
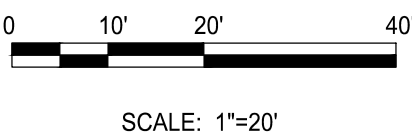


GENERAL SHEET NOTES

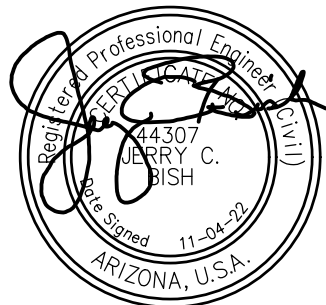
1. CONTRACTOR TO LOCATE AND VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION.
2. P.I.P. = PROTECT IN PLACE  
CONTRACTOR TO PROTECT ALL UTILITY CROSSINGS IN PLACE.
3. CONTRACTOR TO ENSURE PROPER SEPARATION BETWEEN SEWER AND WATER LINES.
4. IN NON-PAVED AREAS, TRENCH REPLACEMENT PER STD DTL 4 ON SHEET 10-GEN-C-3001.
5. POTABLE, UTILITY, AND NON-POTABLE WATER LINES TO BE INSTALLED AT MIN 3' BELOW GRADE.
6. CONTRACTOR TO FOLLOW SPECS AND PIPE SCHEDULE FOR ALL PIPE FURNISHING AND INSTALLING.

CONSTRUCTION NOTES

2. INSTALL 2" SCH 80 PVC UTILITY WATER LINE PER SPECS
3. INSTALL 2" SCH 80 PVC NON POTABLE WATER LINE PER SPECS
4. INSTALL 4" SCH 80 PVC POTABLE WATER LINE PER SPECS
5. INSTALL 4" SDR35 PVC SEWER LINE PER SPECS
6. INSTALL 6" SDR35 PVC SEWER LINE PER SPECS
7. INSTALL 8" SDR35 PVC SEWER LINE PER SPECS
10. CONSTRUCT NEW 48" MANHOLE PER STD DWG 420-1
11. INSTALL 18" SDR35 PVC EFFLUENT LINE PER SPECS
12. INSTALL 4" CL350 DIP SLUDGE FEED LINE PER SPECS
13. INSTALL 4" CL350 DIP DIGESTED SLUDGE LINE PER SPECS
20. INSTALL 45 DEGREE BEND PER SPECS, TYP
21. INSTALL 90 DEGREE BEND PER SPECS, TYP
22. INSTALL 2" BALL VALVE PER STD DWG 391-1
24. INSTALL YARD HYDRANT PER STD DTL 1 ON SHEET 10-GEN-C-3001
27. INSTALL WETWELL AND SLUDGE PUMP FOR LEACHATE SYSTEM PER STD DTL 3 ON SHEET 10-GEN-C-3002
28. INSTALL 2" SCH 80 PVC FORCE MAIN PER PIPE SCHEDULE
32. FURNISH AND INSTALL TEE IN PLACE
33. INSTALL TYPE 1 PERMANENT BOLLARDS PER STD DWG-140, TYP
34. INSTALL 6" SEWER CLEAN OUT PER STD DWG-441
40. INSTALL 4" PERFORATED, FULL LENGTH SDR35 PVC BELL END PIPE WITH END CAP PER SPECS



4221 BALLOON PARK RD NE  
ALBUQUERQUE, NM 87109



PROJECT:  
**KAYENTA WWTP  
IMPROVEMENTS PROJECT**



**NAVAJO TRIBAL  
UTILITY AUTHORITY**

WSP PROJECT No:  
2151700032

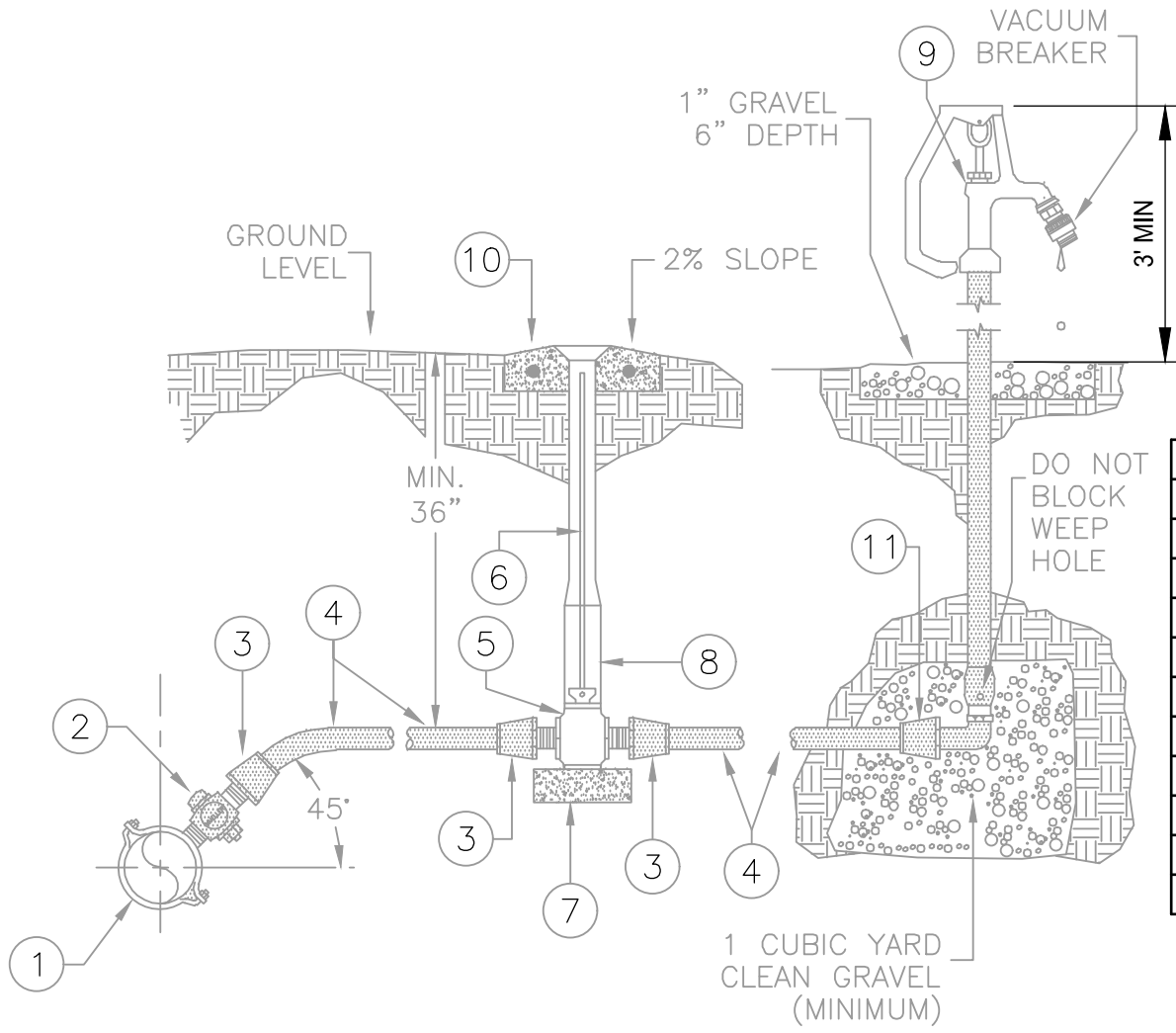
REVISIONS		
NO.	DATE	DESCRIPTION
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DESIGNED BY:	DDM
DRAWN BY:	DDM
CHECKED BY:	JCB
DATE:	04NOV2022

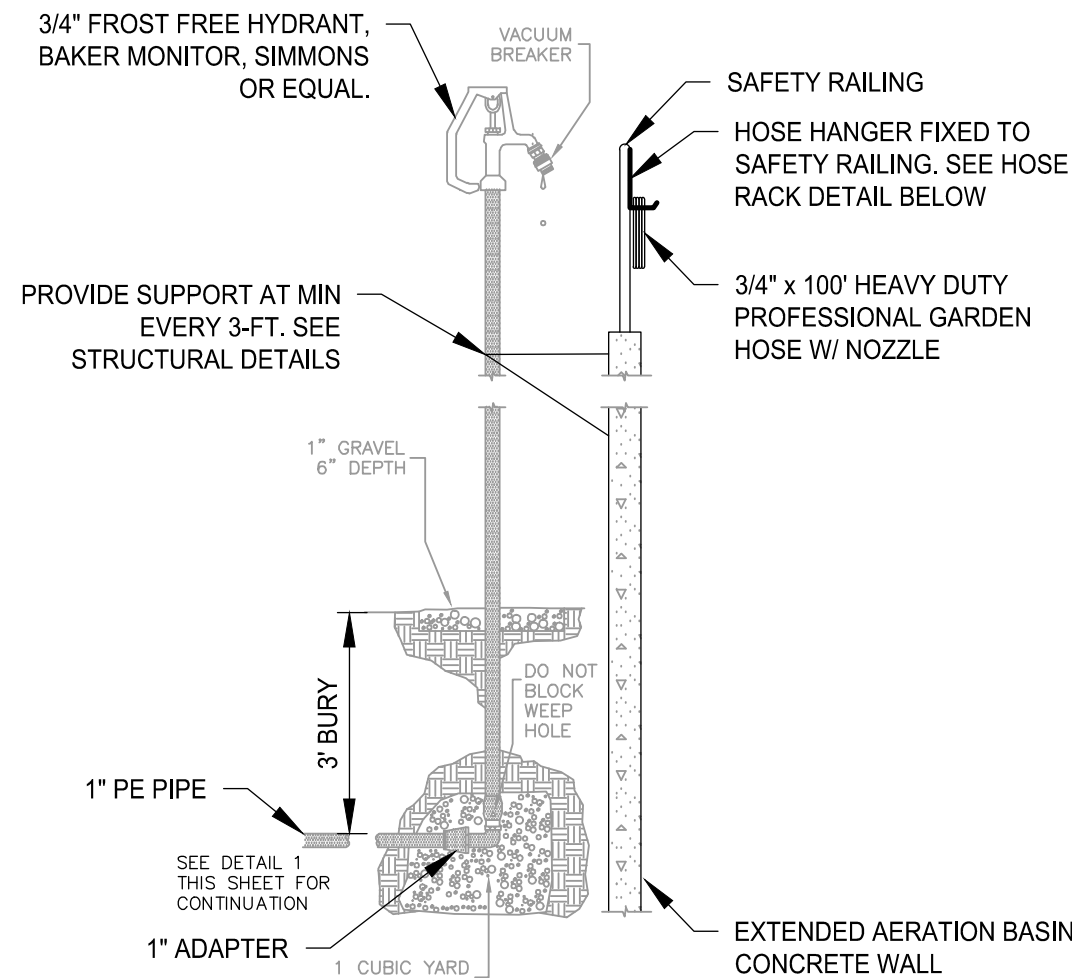
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**YARD PIPING SITE  
LAYOUT 3**

SHEET NUMBER:	REV. #
10-GEN-C-1022	1
SHEET 18 OF 223	

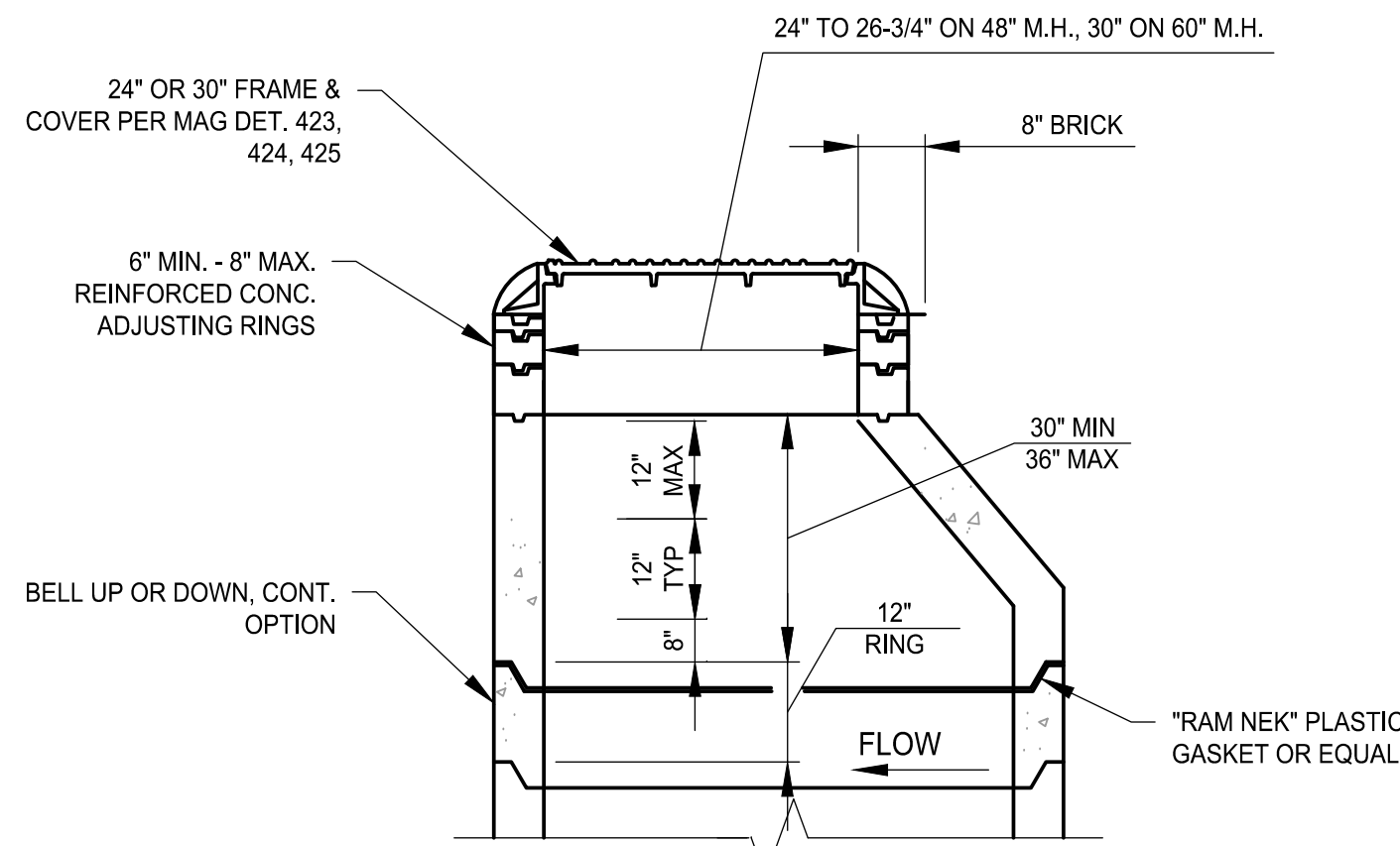




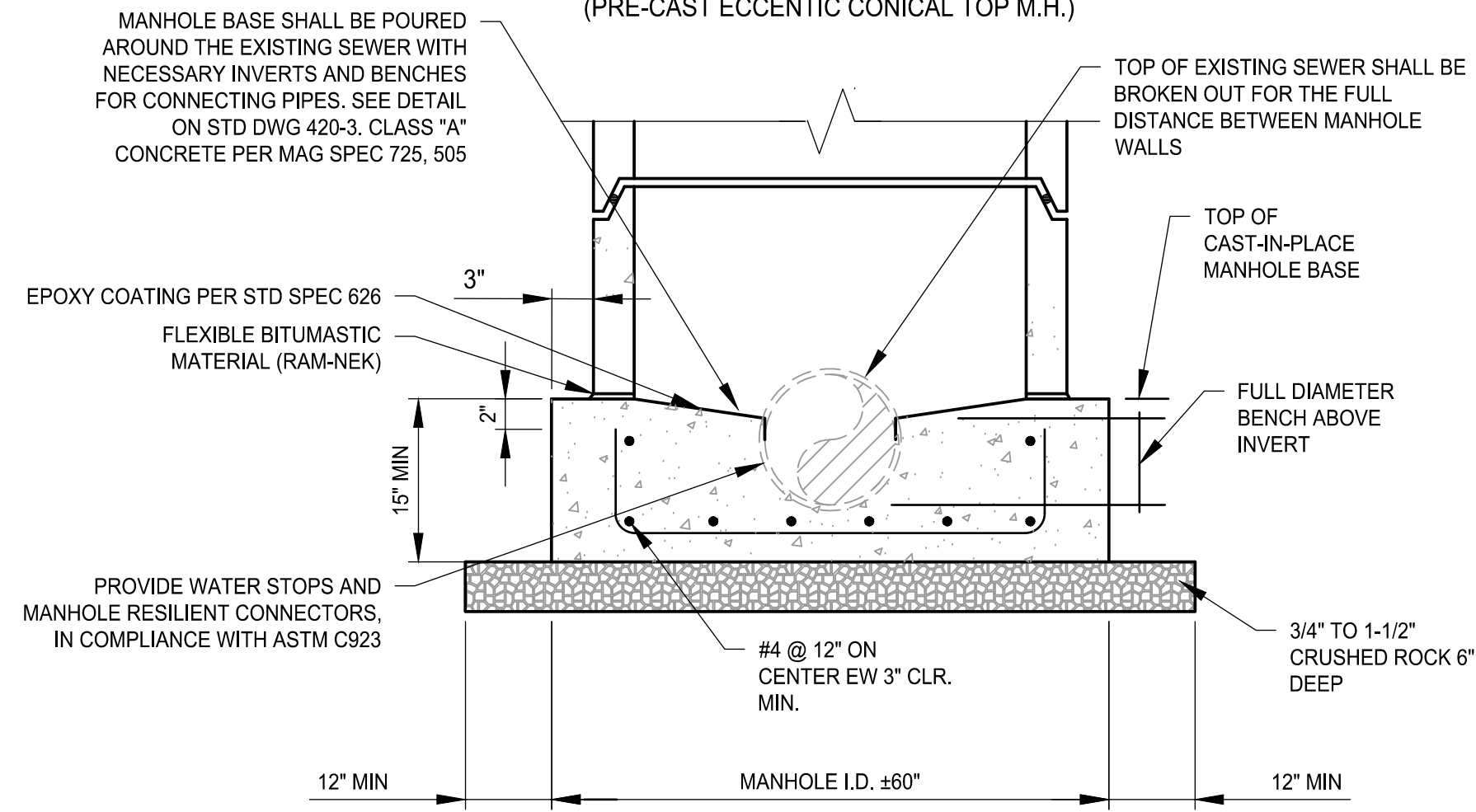
1 TYPICAL YARD HYDRANT  
NOT TO SCALE



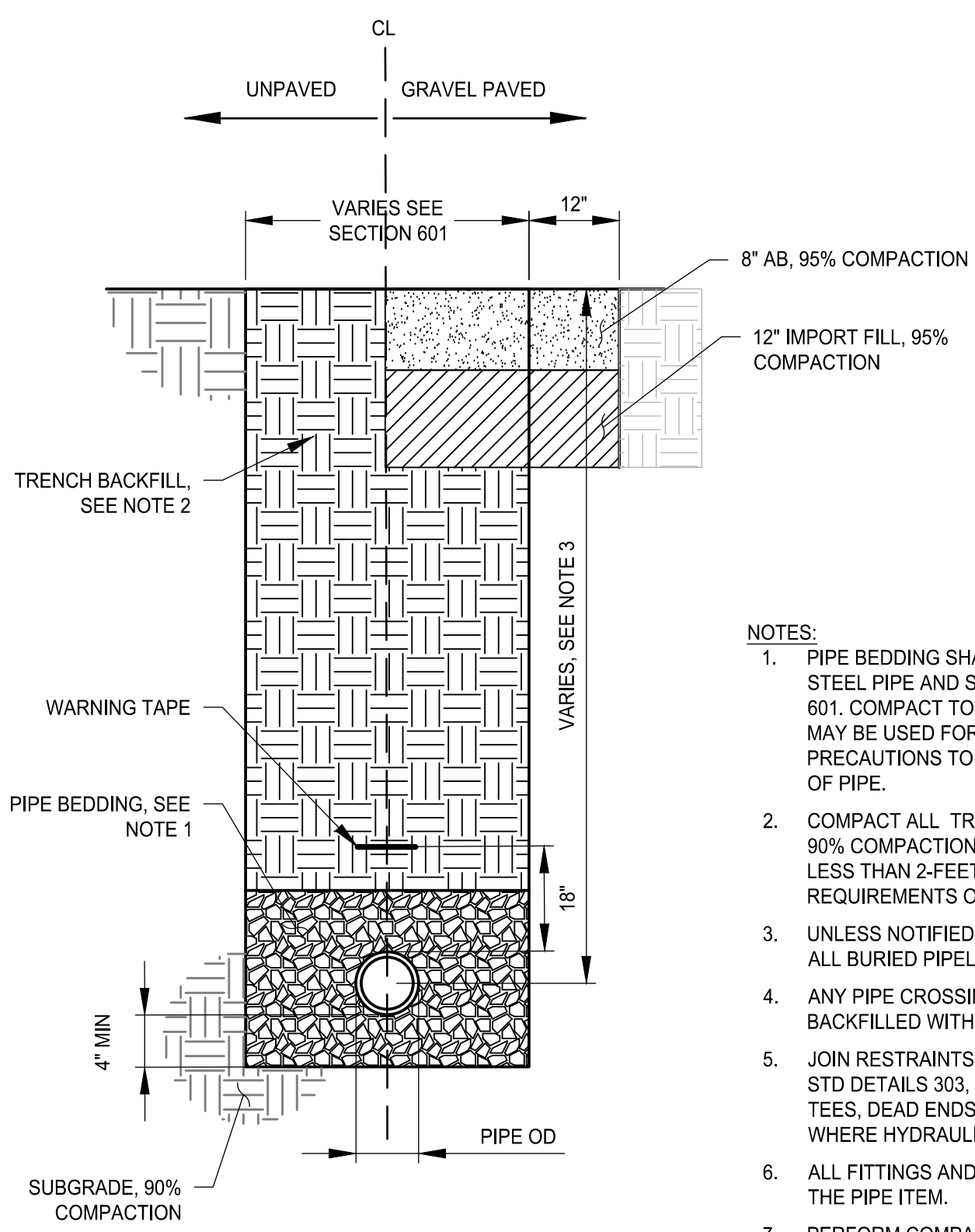
2 AERATION BASIN YARD HYDRANT  
NOT TO SCALE



TYPE 'A' TOP  
(PRE-CAST ECCENTRIC CONICAL TOP M.H.)

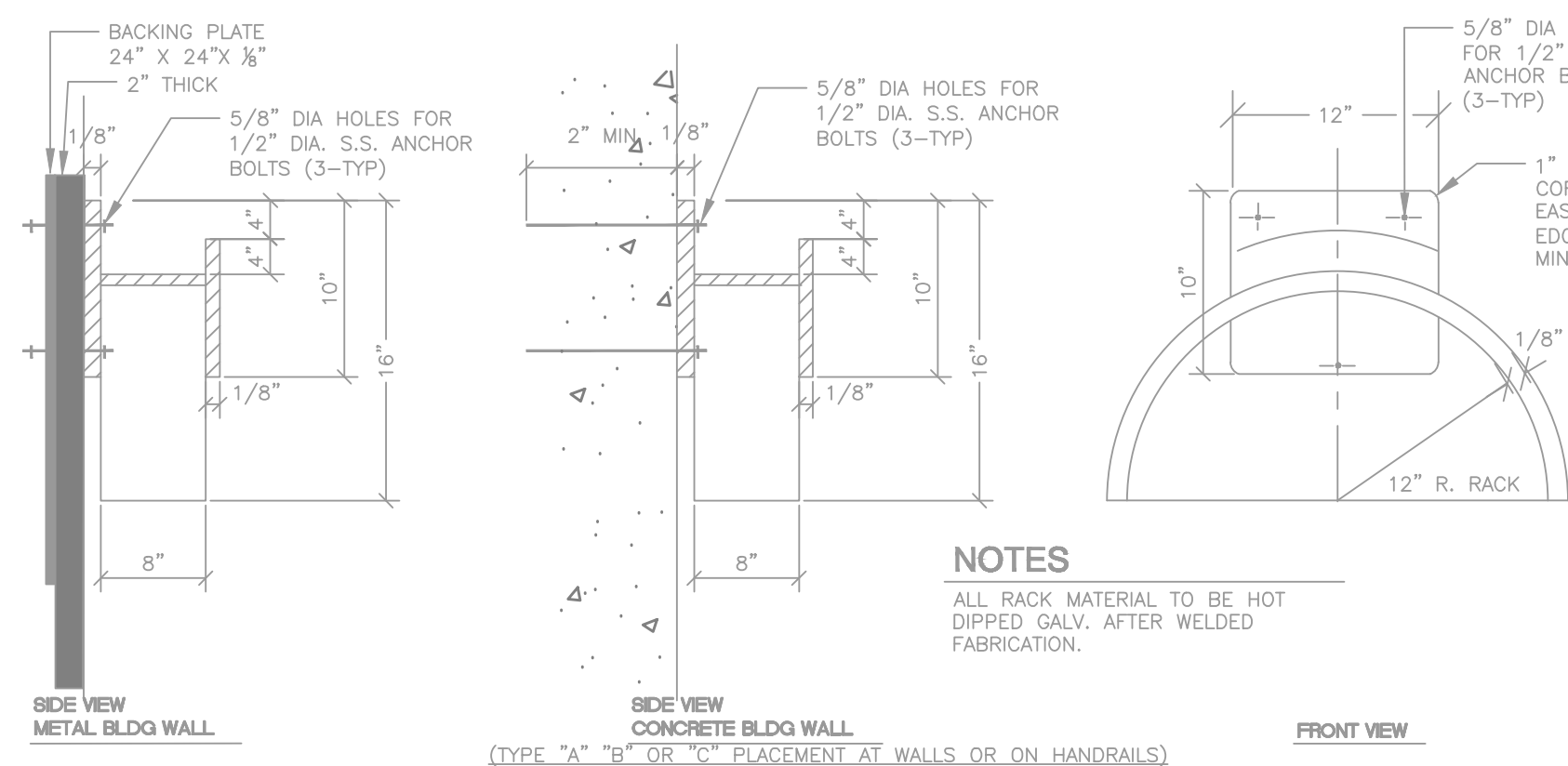


3 NEW SEWER MANHOLE ON EXISTING SEWER LINE MODIFIED MAG DTL 420-1  
N.T.S.

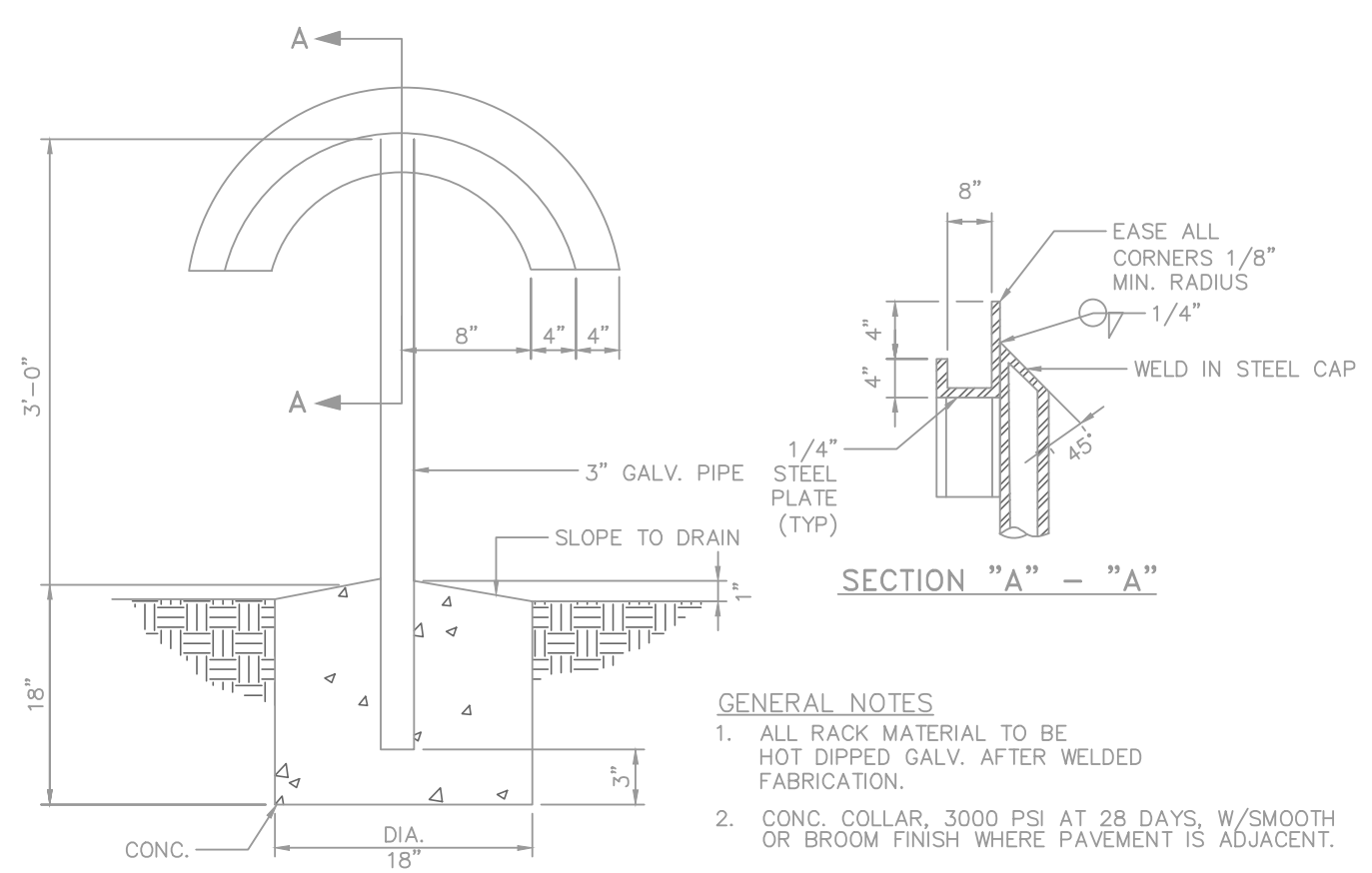


4 TYPICAL TRENCH DETAIL  
N.T.S.

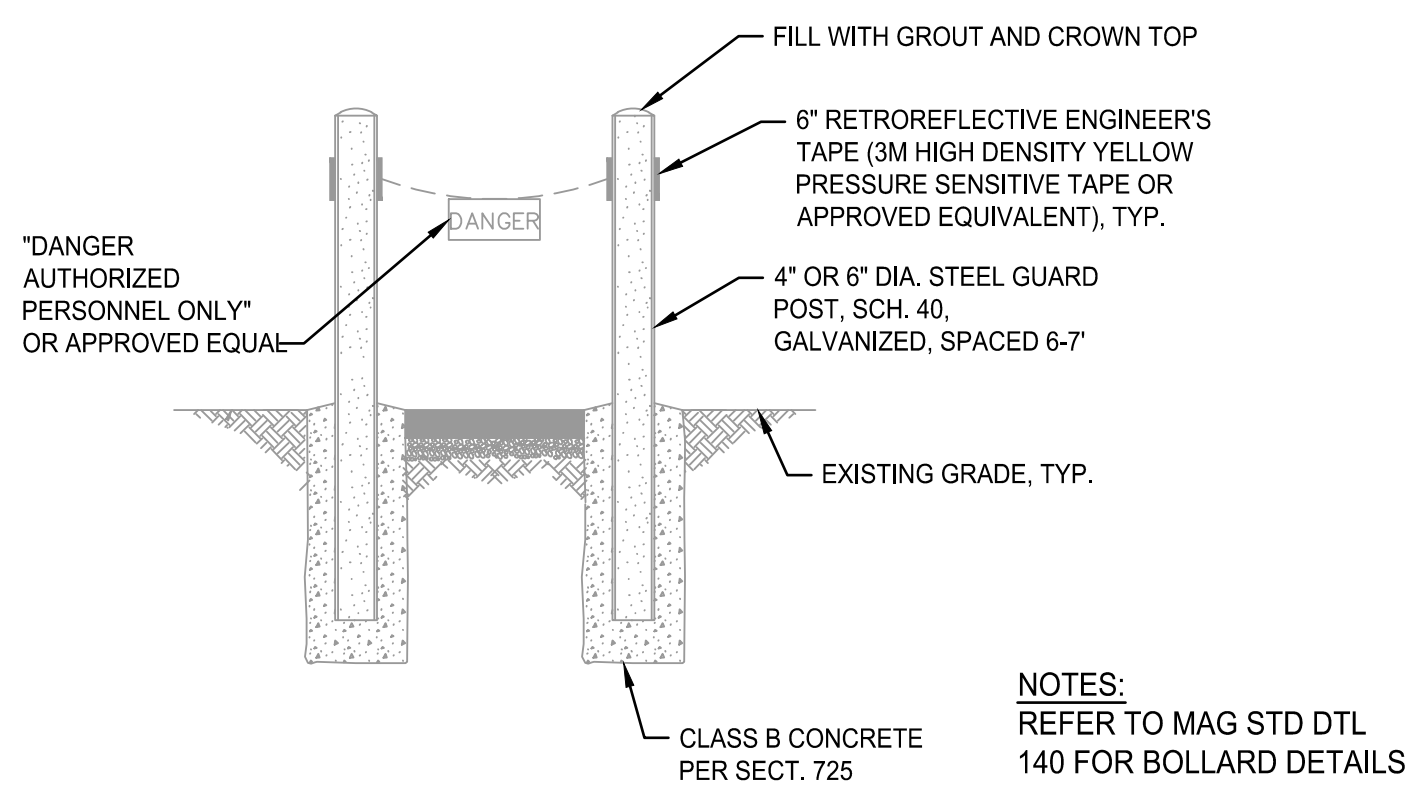
- NOTES:
- PIPE BEDDING SHALL BE GRANULAR BEDDING FOR ALL DUCTILE IRON OR STEEL PIPE AND SAND FOR ALL OTHER PIPE MATERIAL AND PER STD SPEC 601. COMPACT TO 90% RELATIVE COMPACTION. ALTERNATIVELY, SLURRY FILL MAY BE USED FOR PIPE BEDDING. IF SLURRY FILL IS USED, TAKE PRECAUTIONS TO PREVENT PIPE FLOATING. BACKFILL TO MIN 4" ABOVE TOP OF PIPE.
  - COMPACT ALL TRENCH BACKFILL (COMMON FILL AND SELECT GRADE) TO 90% COMPACTION MORE THAN 2-FEET BELOW GRADE AND 95% COMPACTION LESS THAN 2-FEET BELOW GRADE. BACKFILL MATERIAL SHALL MEET REQUIREMENTS OF STD SECTION 601.
  - UNLESS NOTIFIED OTHERWISE, PROVIDE MINIMUM 3-FEET OF COVER OVER ALL BURIED PIPELINES. SEE SECTION 601.
  - ANY PIPE CROSSING LESS THAN 16" OF VERTICAL CLEARANCE MUST BE BACKFILLED WITH CLSM, UP TO SPRING LINE AND 1-FT BEYOND PIPE OD.
  - JOIN RESTRAINTS AND THRUST BLOCKING COMPLYING WITH SECTION 610, STD DETAILS 303, AND STD DETAIL 308 SHALL BE USED AT ALL ALL BENDS, TEES, DEAD ENDS, REDUCERS, VALVES, HYDRANTS, AND OTHER LOCATIONS WHERE HYDRAULIC FORCE MAY CAUSE DAMAGE TO NEW OR EXISTING PIPES.
  - ALL FITTINGS AND JOINT RESTRAINTS SHALL BE CONSIDERED INCIDENTAL TO THE PIPE ITEM.
  - PERFORM COMPACTION TEST FOR EA 2 FT DEPTH AT 200 FT INTERVALS OR LESS, IN ACCORDANCE WITH ASTM D2922 AND D3017. TESTING IS INCIDENTAL TO WORK. NON-COMPLIANT AREAS SHALL BE COMPACTED AND TESTED AGAIN AT NO ADDITIONAL COST.
  - ALL BURIED CON-PLASTIC PIPES AND FITTING SHALL HAVE CORROSION PROTECTION WRAPPING PER SECTION 404616.



5 HOSE RACK DETAIL - WALL MOUNTED  
NOT TO SCALE



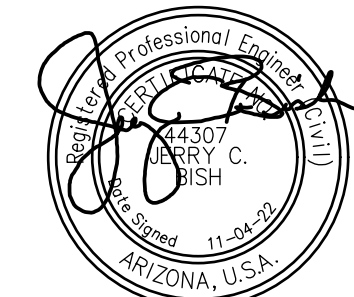
6 HOSE RACK DETAIL - PEDESTAL MOUNTED  
NOT TO SCALE



7 BOLLARDS WITH CHAIN AND SIGN  
N.T.S.



4221 BALLOON PARK RD NE  
ALBUQUERQUE, NM 87109



PROJECT:  
KAYENTA WWTP  
IMPROVEMENTS PROJECT



NAVAJO TRIBAL  
UTILITY AUTHORITY

WSP PROJECT No:  
2151700032

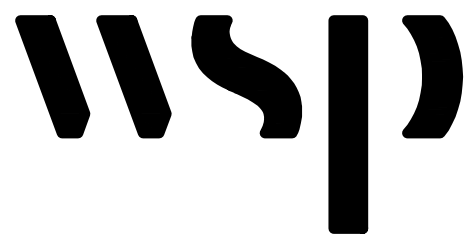
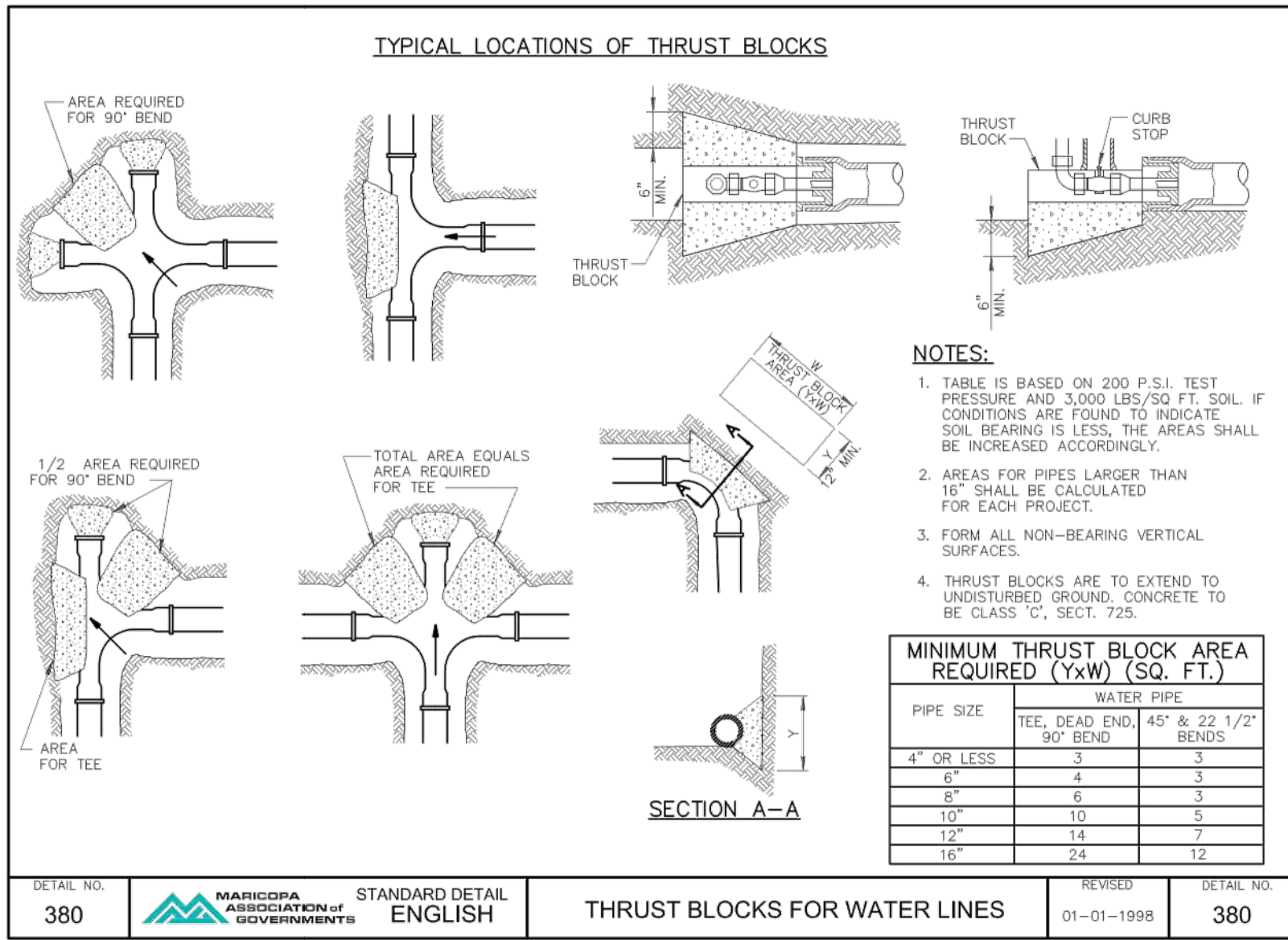
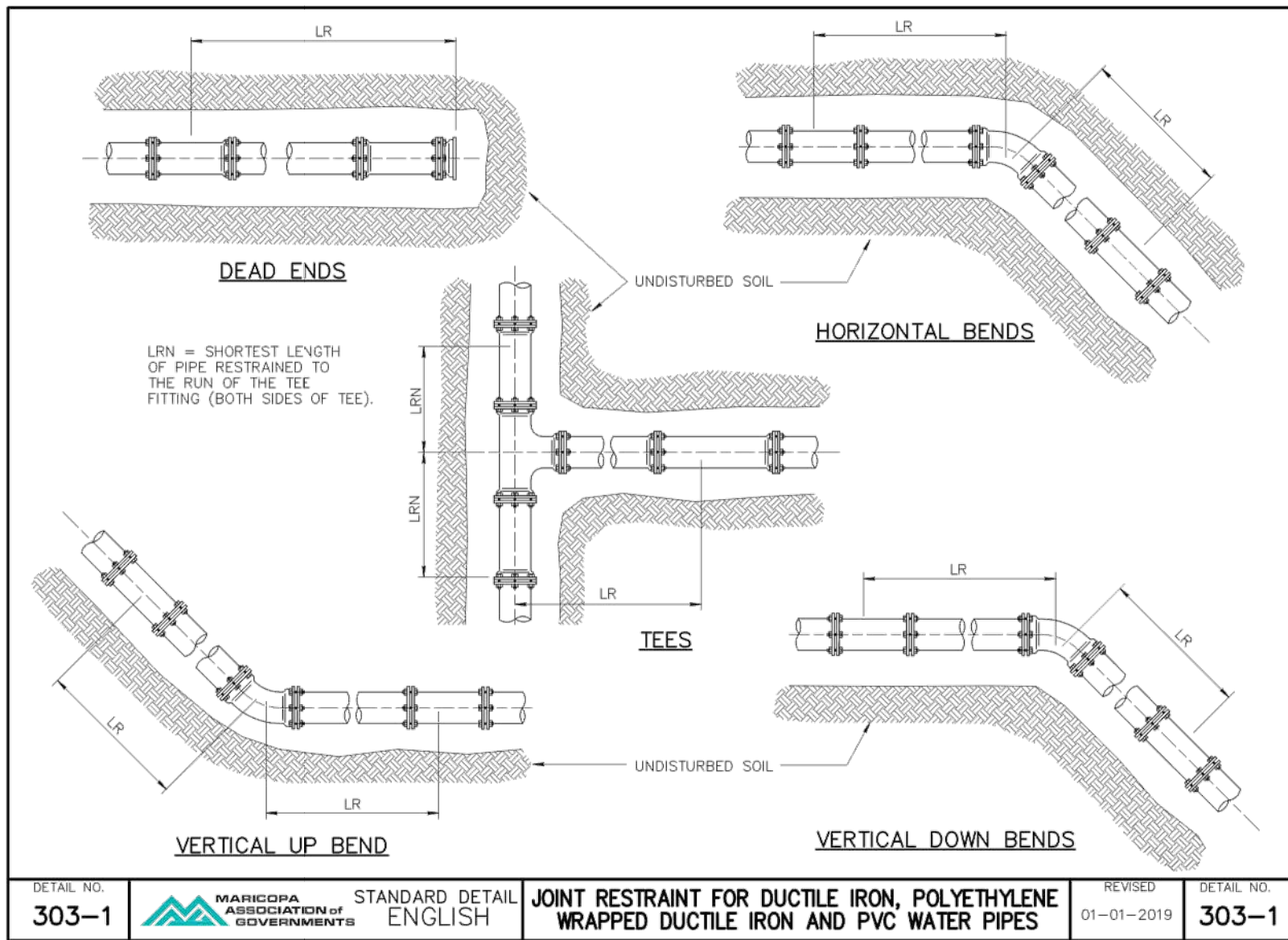
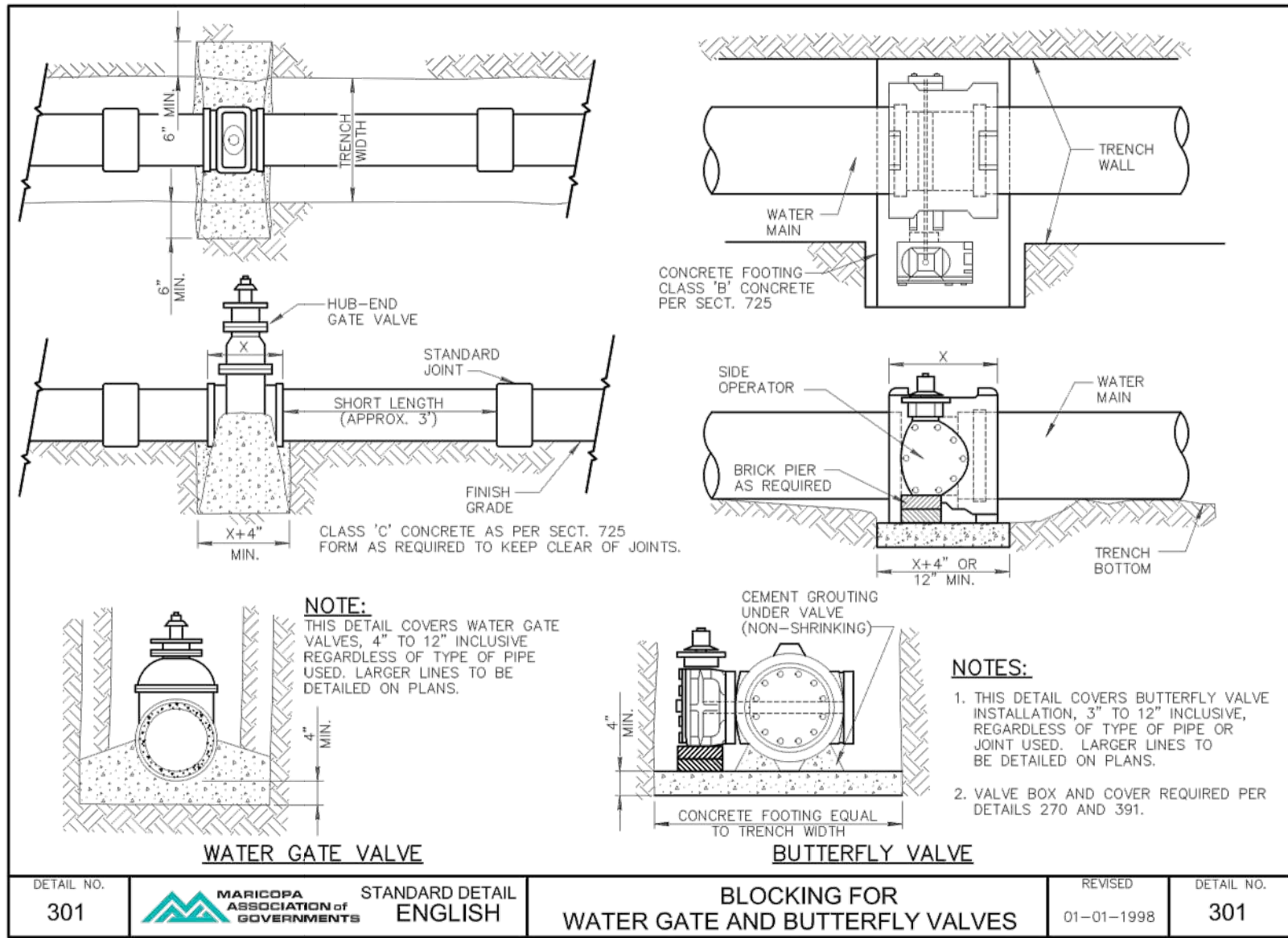
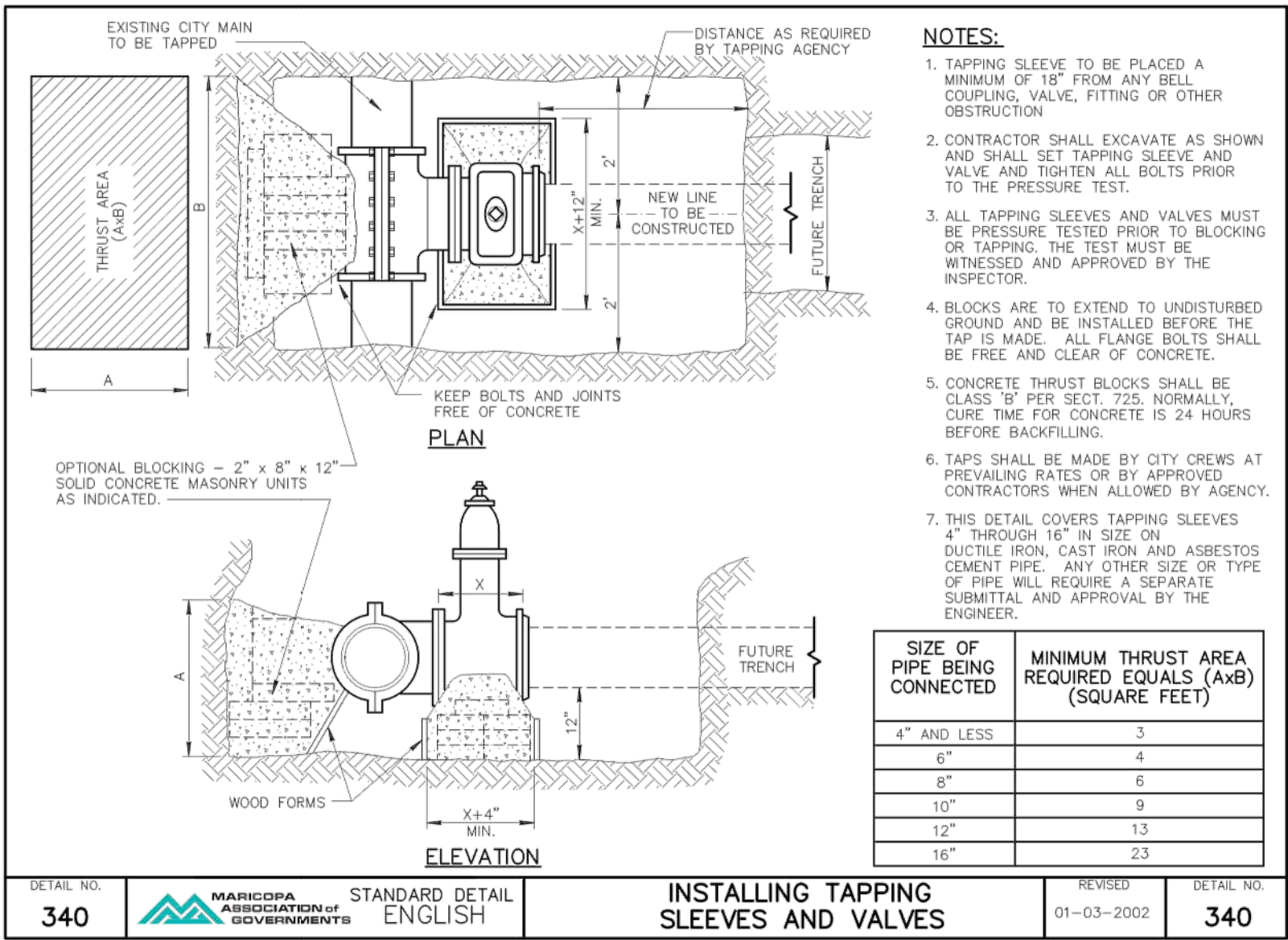
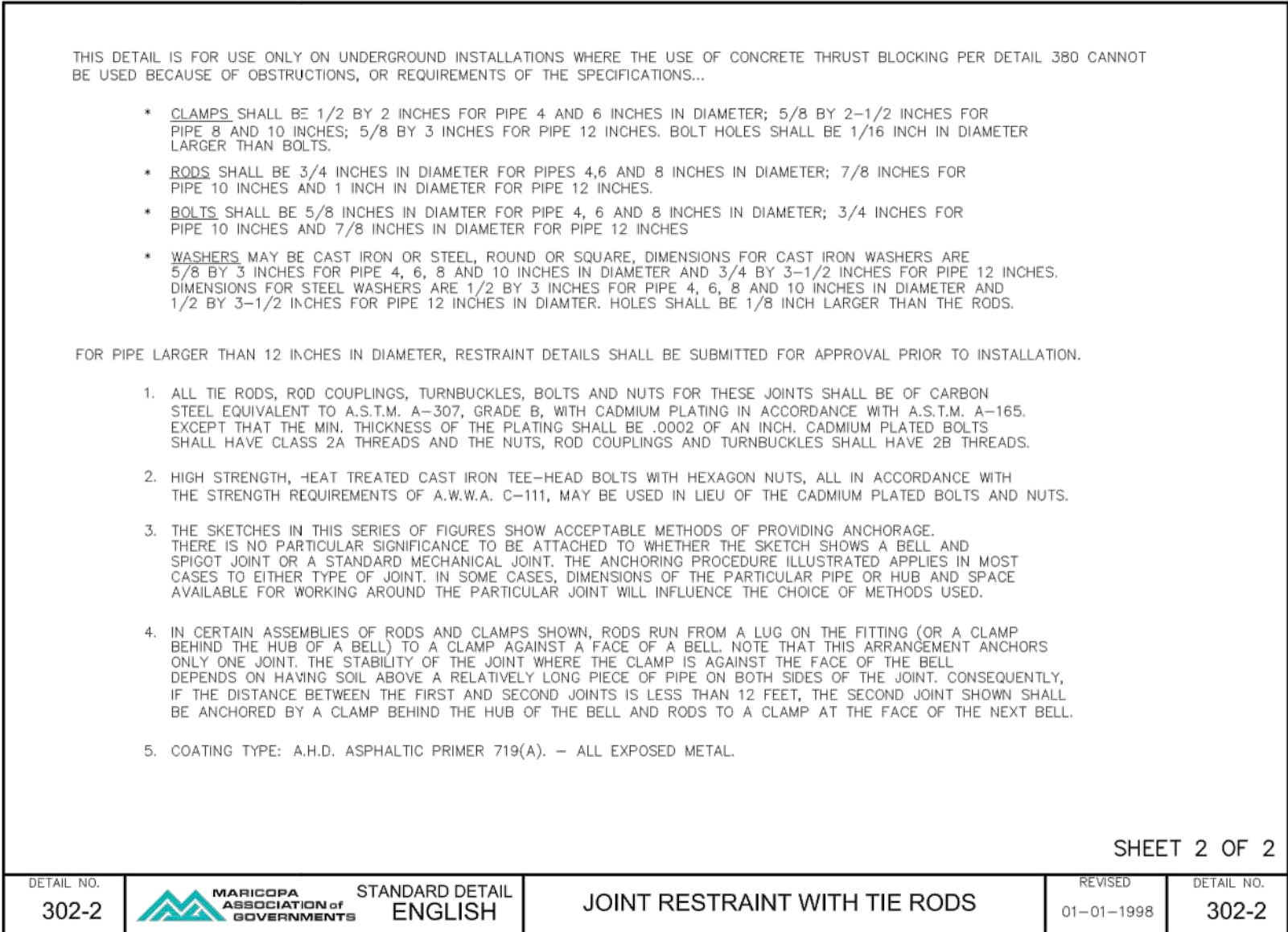
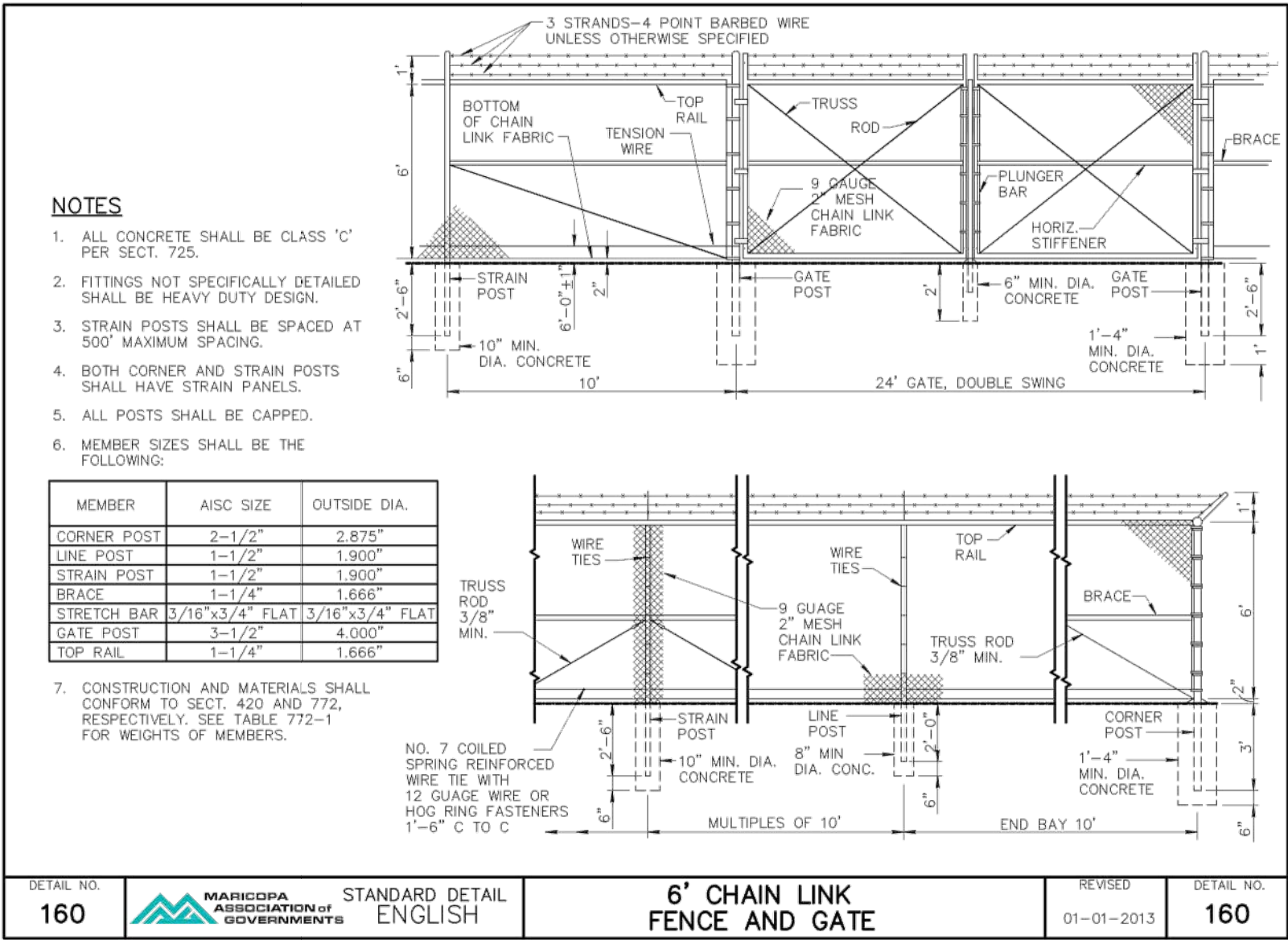
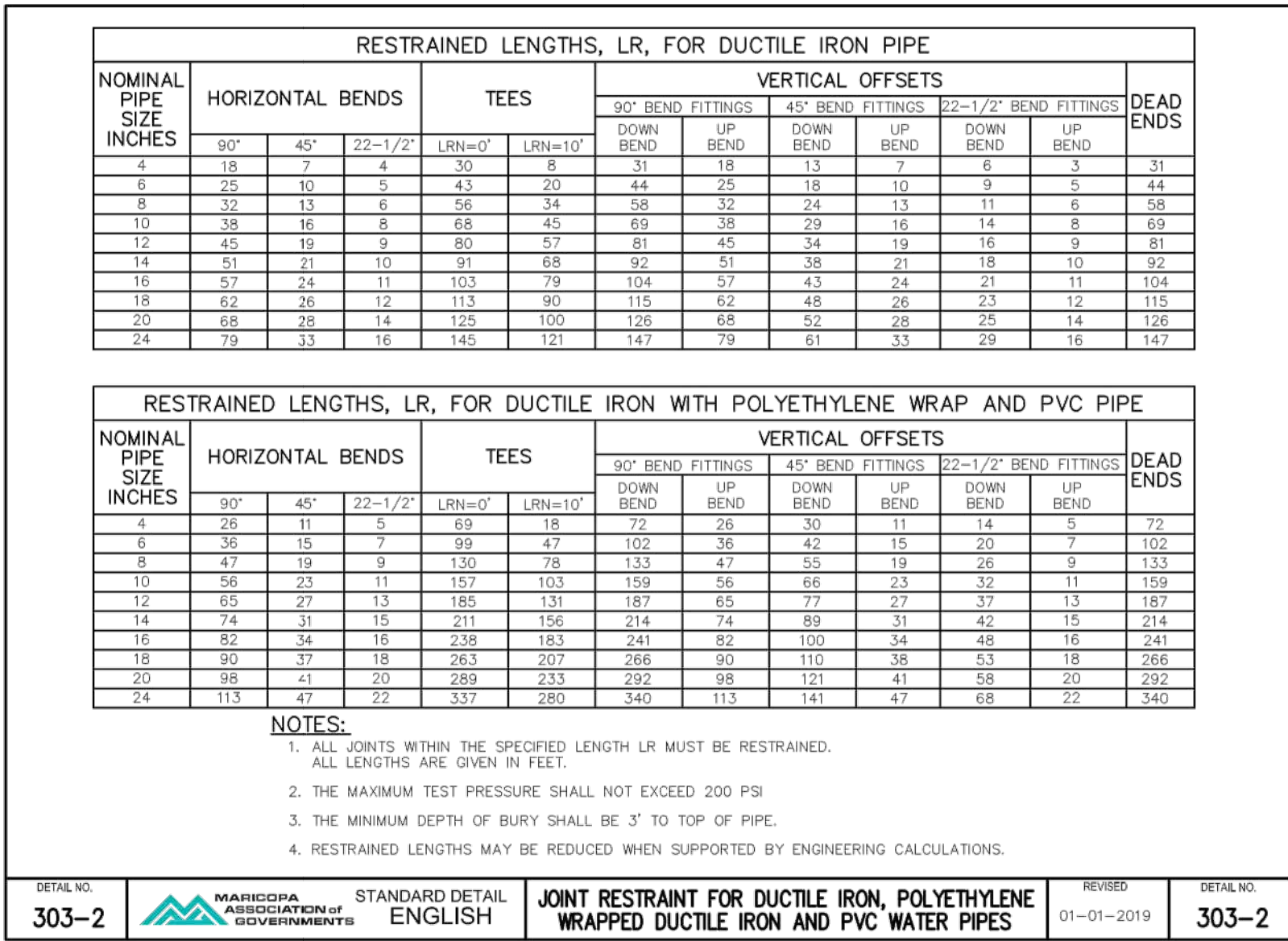
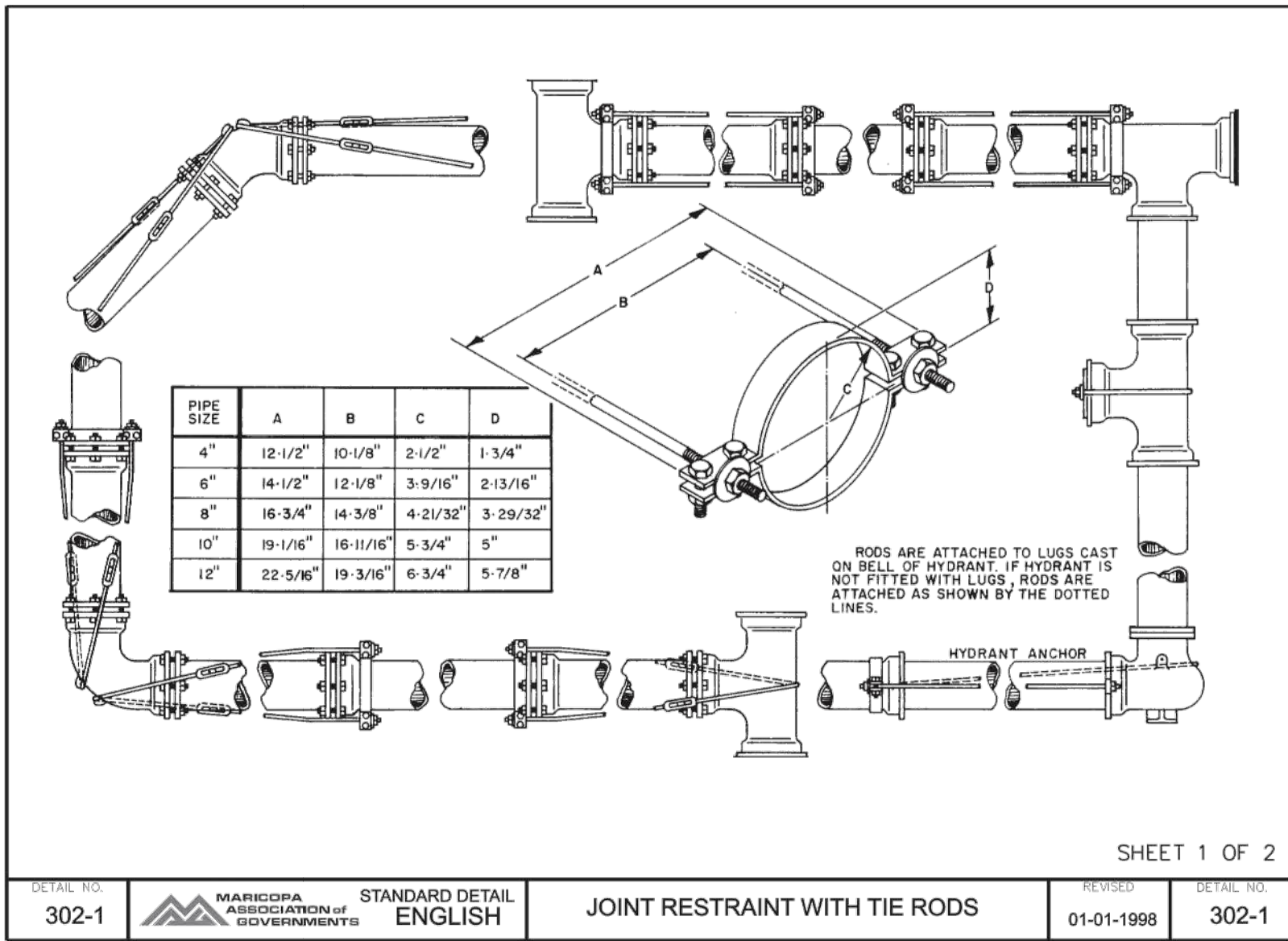
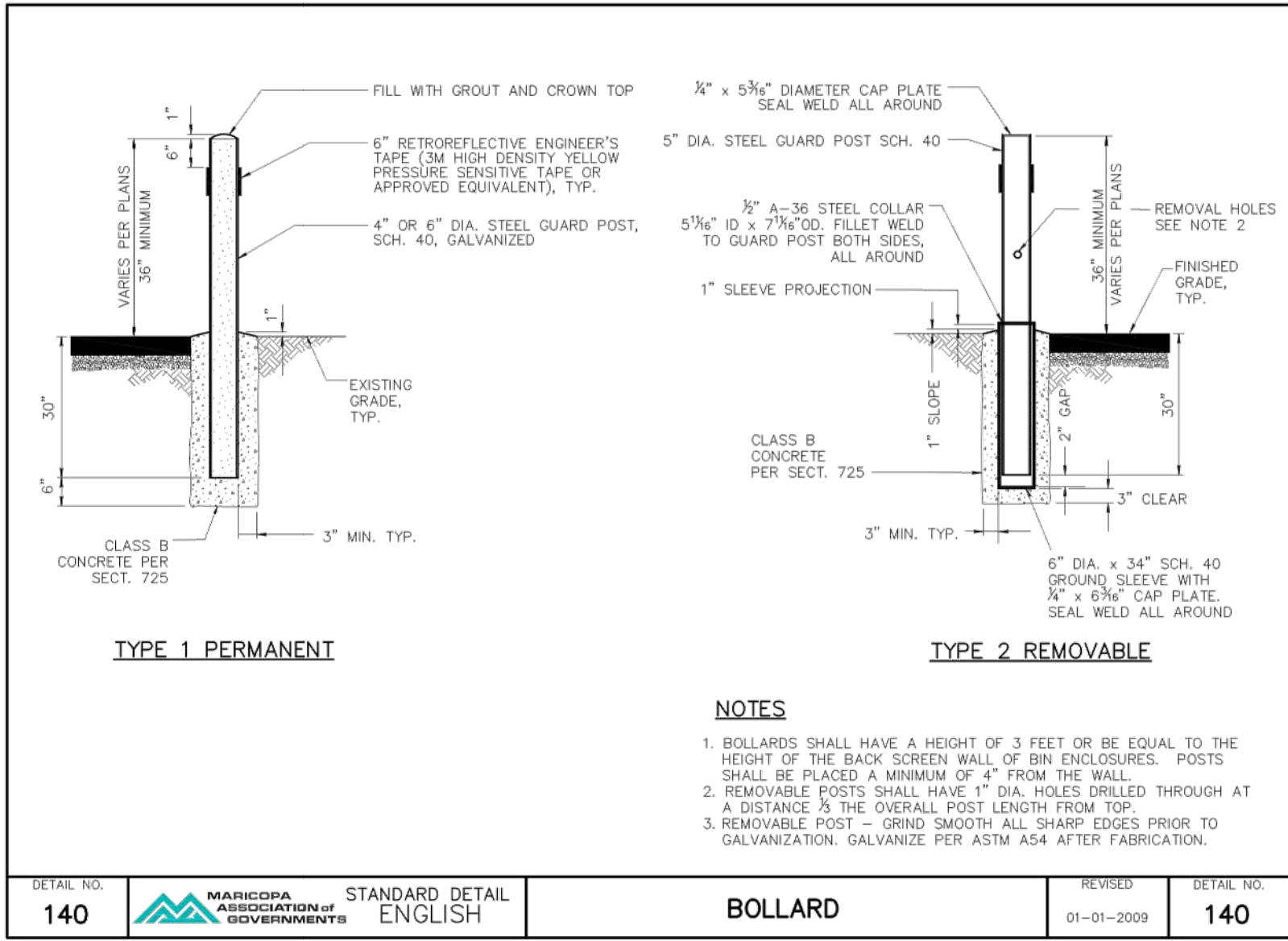
REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY:	DDM
DRAWN BY:	DDM
CHECKED BY:	JCB
DATE:	04NOV2022

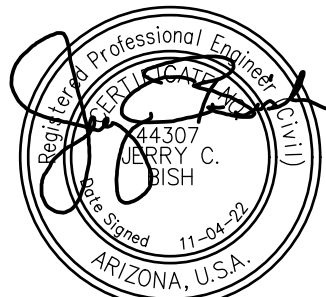
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CIVIL DETAILS 1

SHEET NUMBER:	REV. #
10-GEN-C-3001	0
SHEET 23 OF 223	





4221 BALLOON PARK RD NE  
ALBUQUERQUE, NM 87109



PROJECT:  
KAYENTA WWTP  
IMPROVEMENTS PROJECT



NAVAJO TRIBAL  
UTILITY AUTHORITY

WSP PROJECT No:  
2151700032

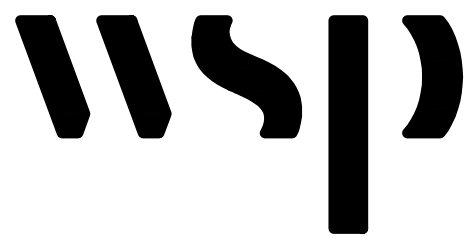
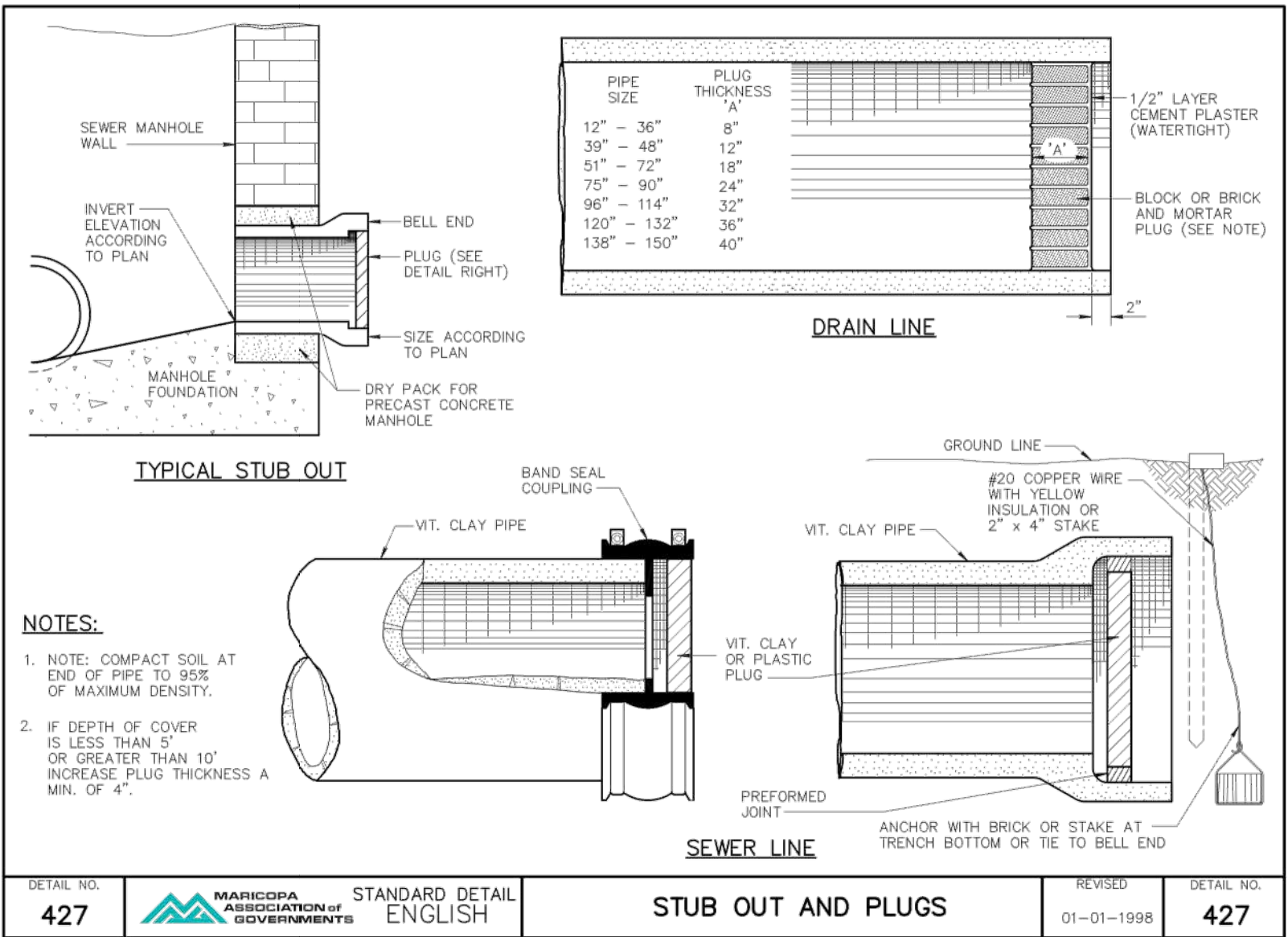
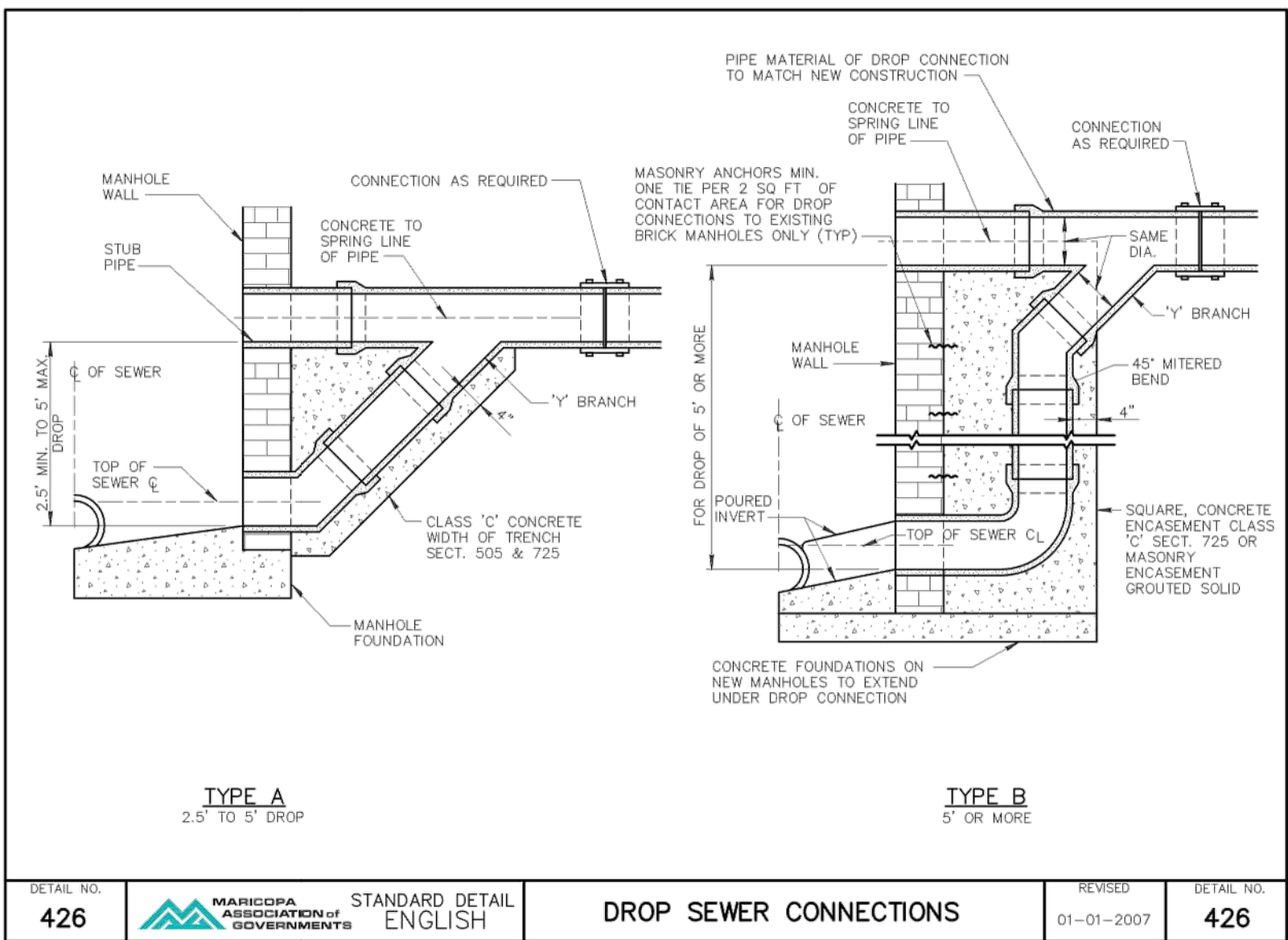
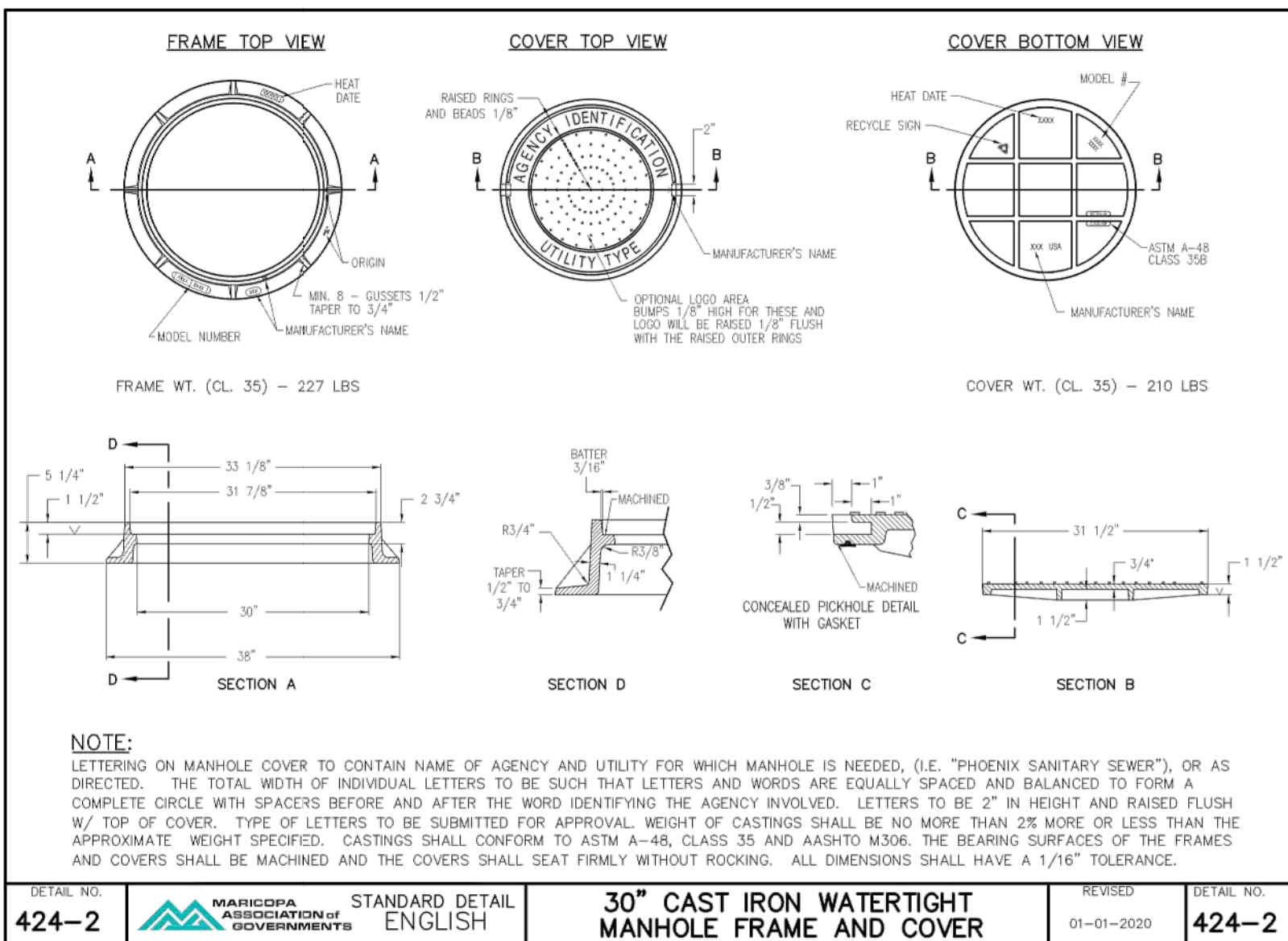
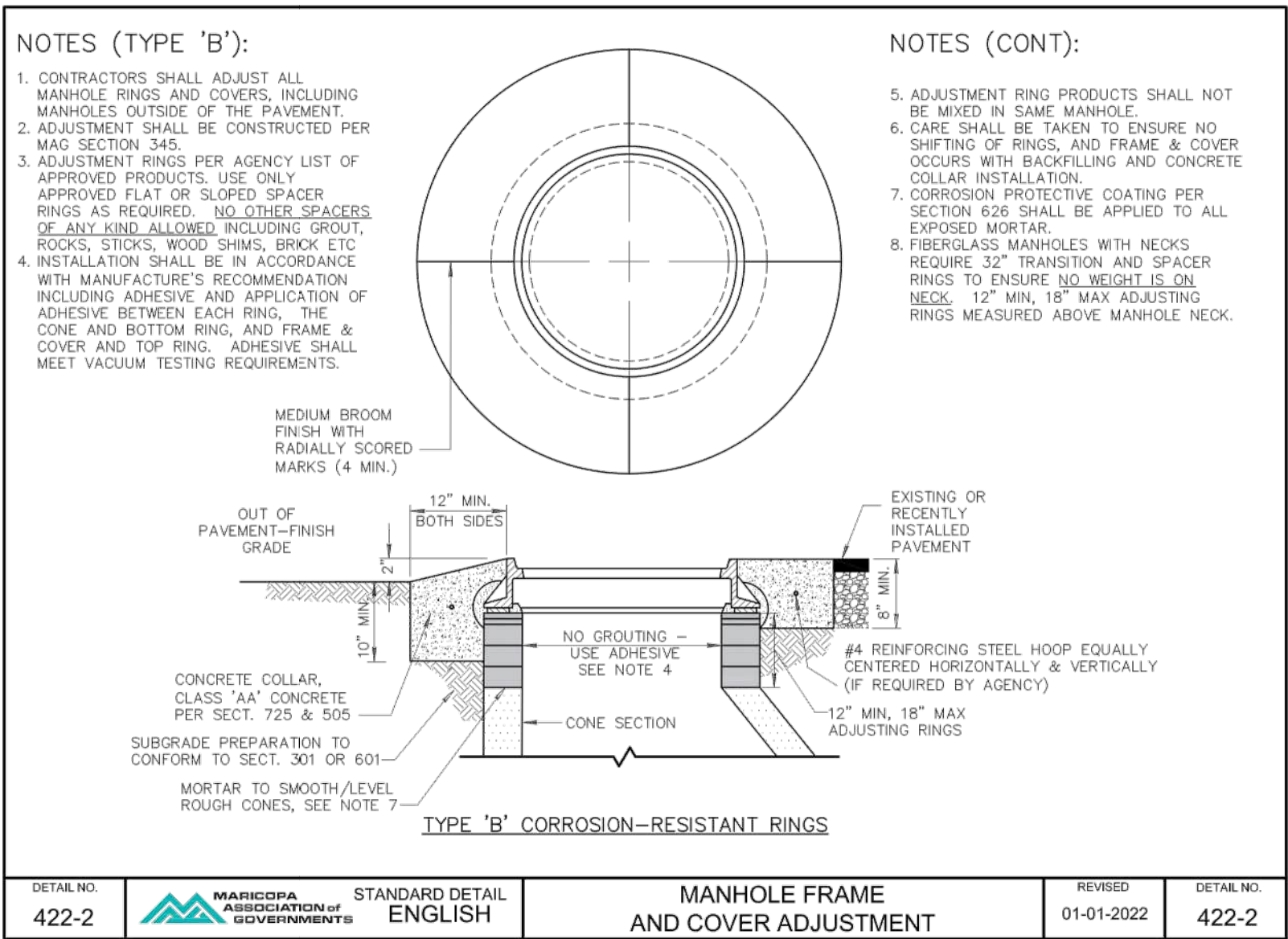
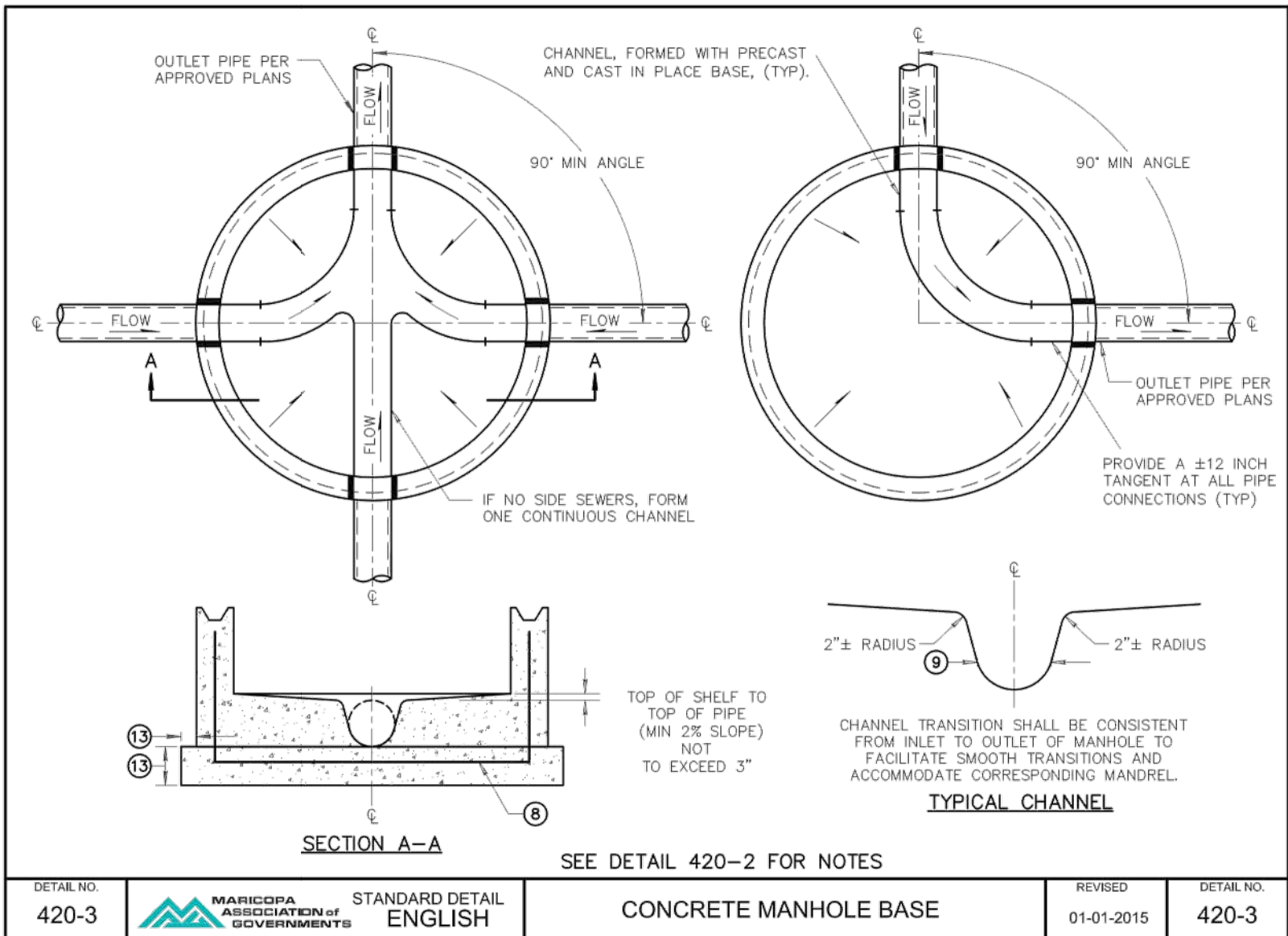
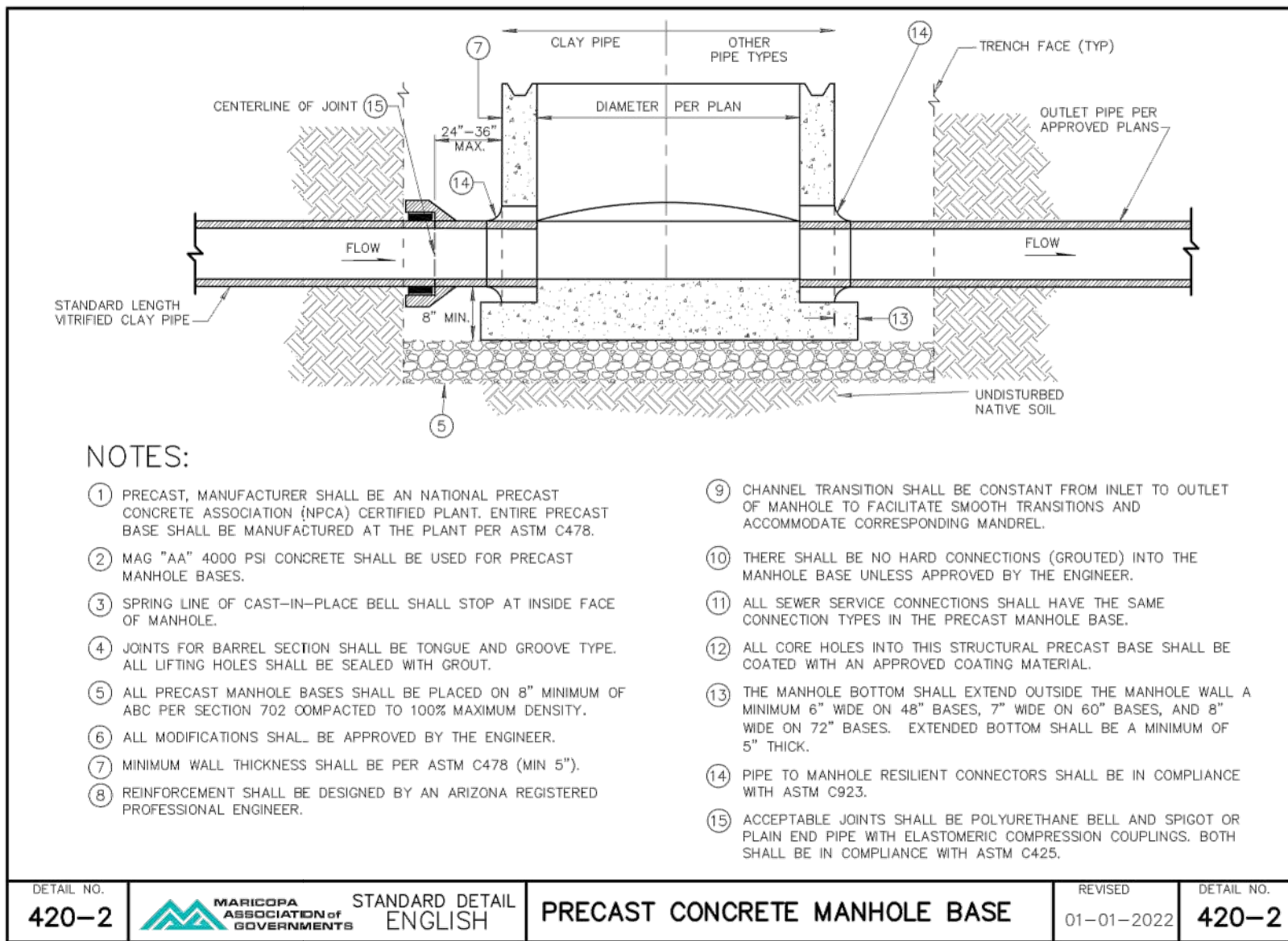
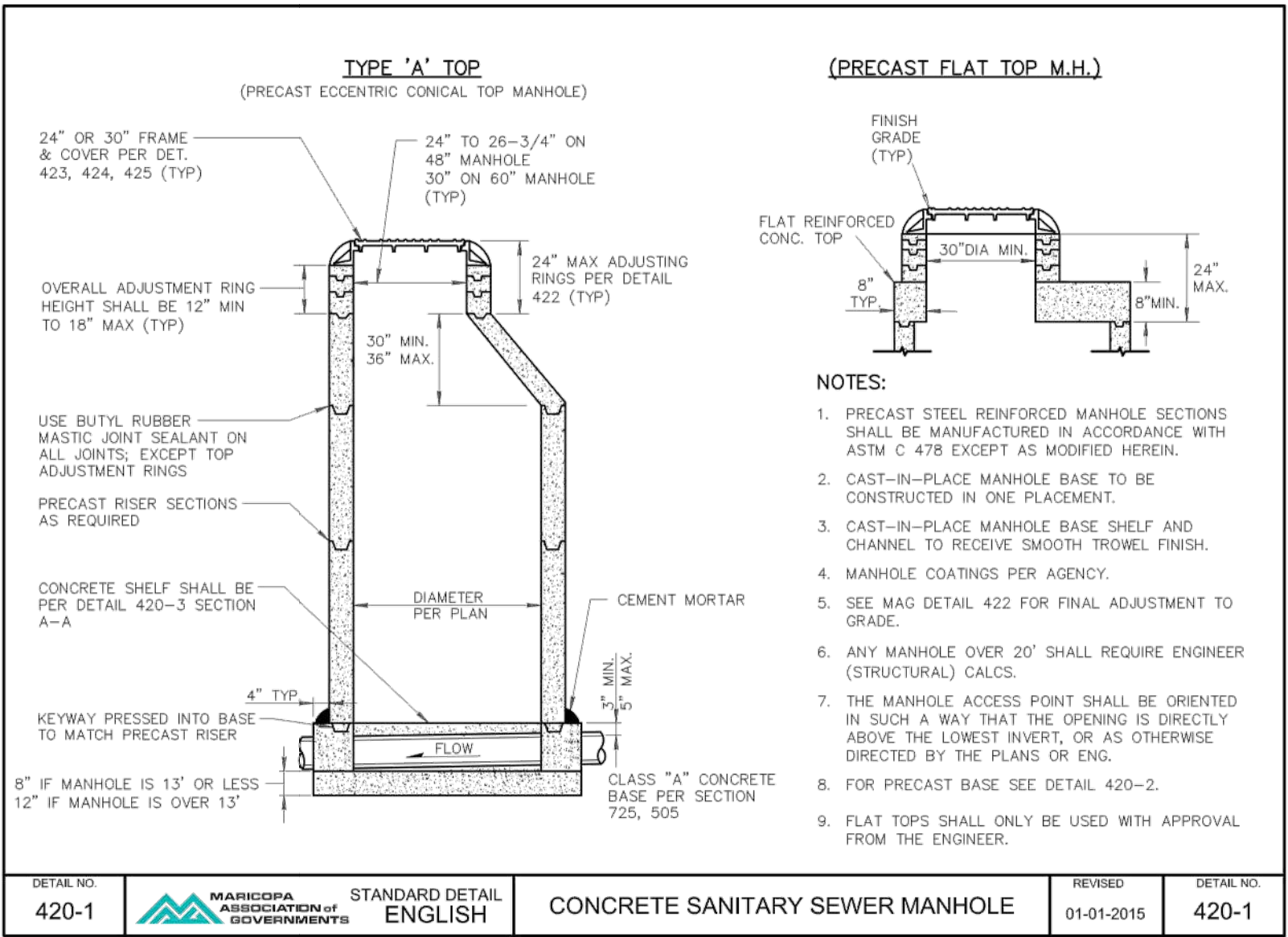
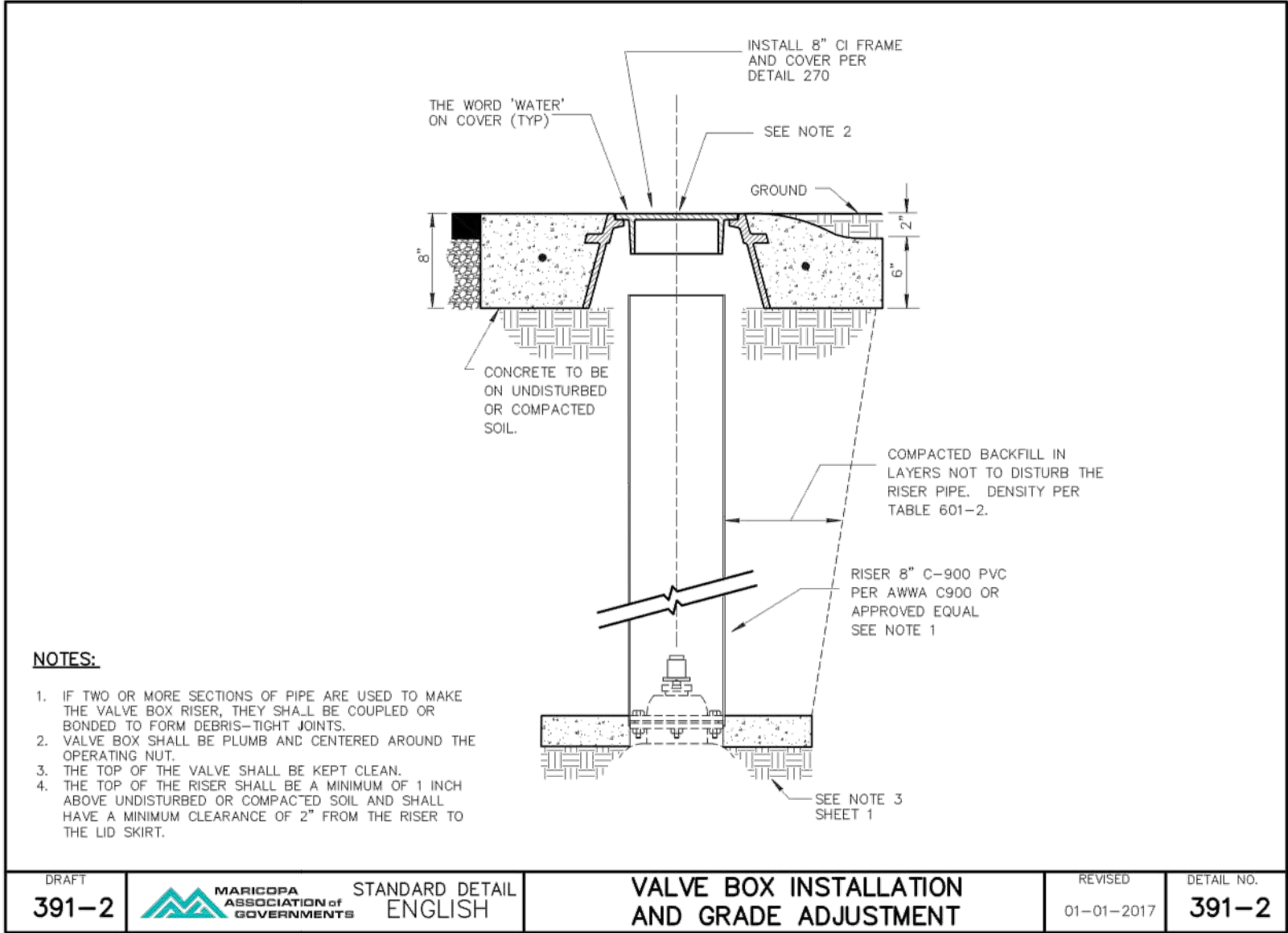
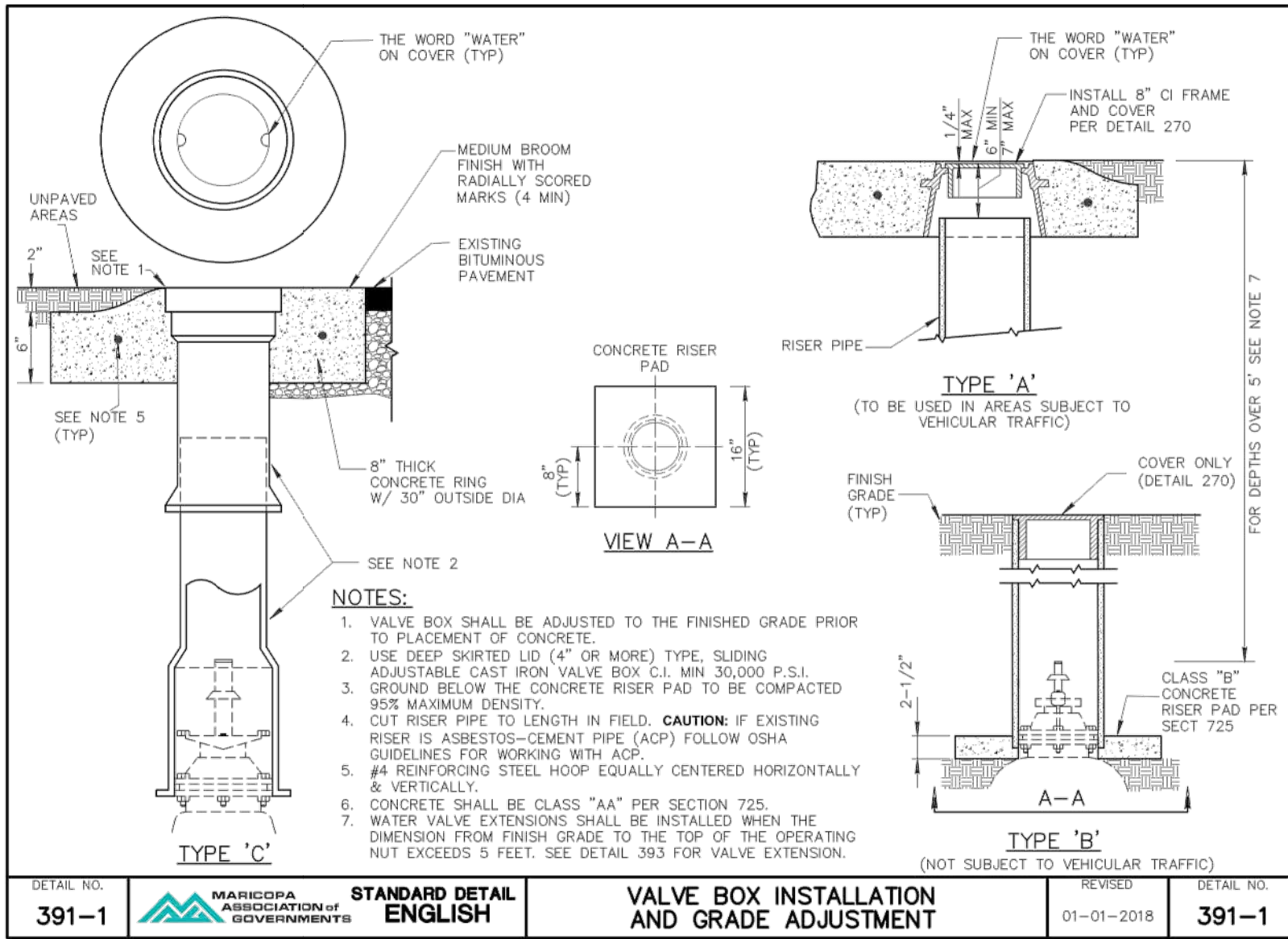
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NO.	DATE	DESCRIPTION

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DATE:	04NOV2022

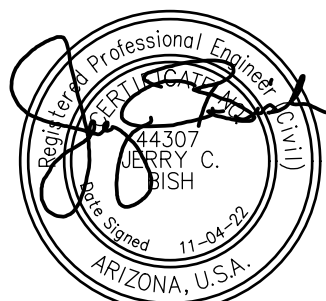
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SHEET NUMBER:	REV. #
10-GEN-C-3003	0
SHEET 25 OF 223	





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ALBUQUERQUE, NM 87109



PROJECT:  
KAYENTA WWTP  
IMPROVEMENTS PROJECT



NAVAJO TRIBAL  
UTILITY AUTHORITY

WSP PROJECT No:  
2151700032

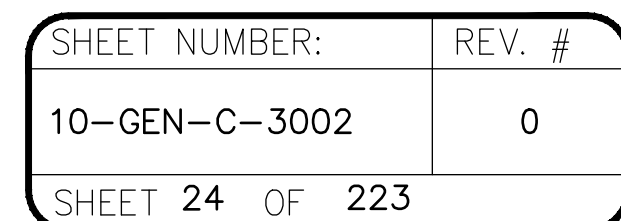
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DATE:	04NOV2022

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CIVIL DETAILS 4

SHEET NUMBER:	REV. #
10-GEN-C-3004	0
SHEET 26 OF 223	















GENERAL NOTES:  
1. FOR GENERAL NOTES SEE DRAWINGS DWG-10-GEN-S-0401 AND 0402.  
2. FOR STANDARD CONCRETE DETAILS SEE DRAWINGS DWG-10-GEN-S-3001, S-3002.  
3. FOR FILL REQUIREMENTS SEE SPECIFICATION SECTION 312300.



4221 BALLOON PARK RD NE,  
ALBUQUERQUE, NM 87109

SEISMIC REQUIREMENTS IN  
CONFORMITY TO: CFR 1792,  
HAVE BEEN IMPLEMENTED IN  
THE ENGINEERING AND  
DESIGN OF THE STRUCTURAL  
ELEMENTS SHOWN ON THIS  
DRAWING, AS WELL AS ON THE  
STRUCTURAL SYSTEM WHERE  
THEY BELONG.

Ivan G. Soto, P.E.  
Structural Engineer  
Arizona License: 75678  
Engineer of Record



PROJECT:  
**KAYENTA WWTP  
IMPROVEMENTS PROJECT**



**NAVAJO TRIBAL  
UTILITY AUTHORITY**

WSP PROJECT No:  
2151700032

REVISIONS

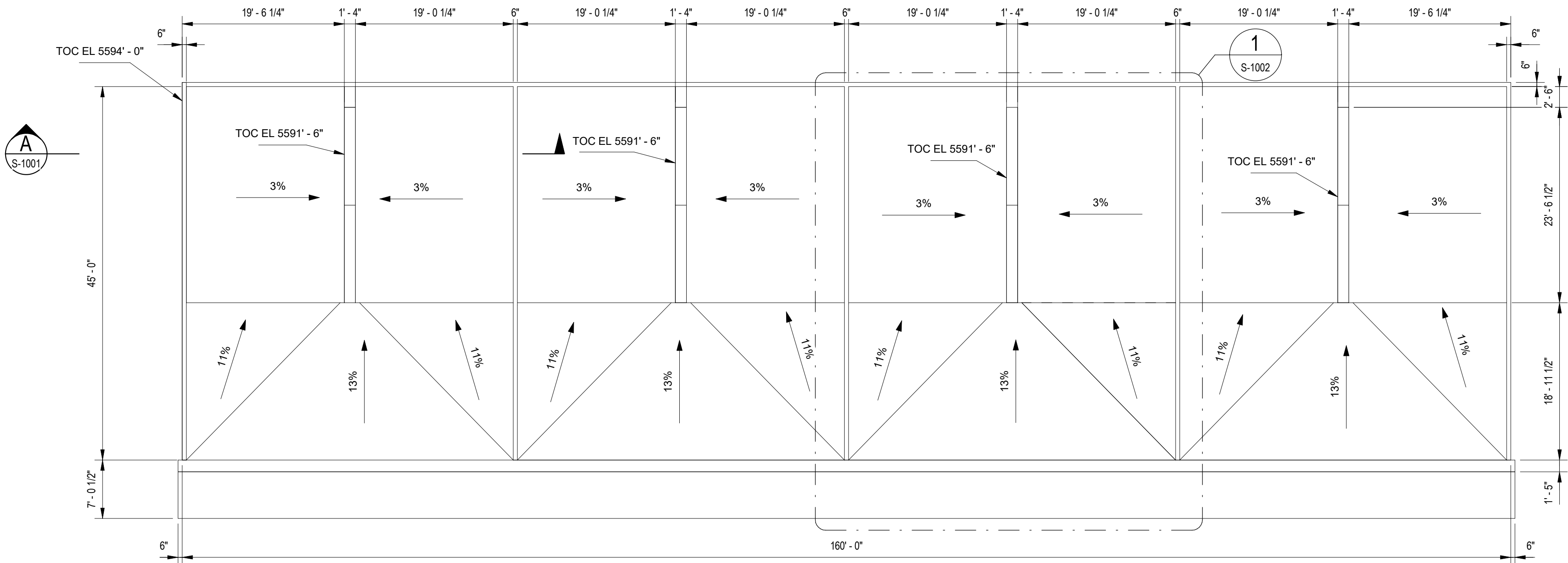
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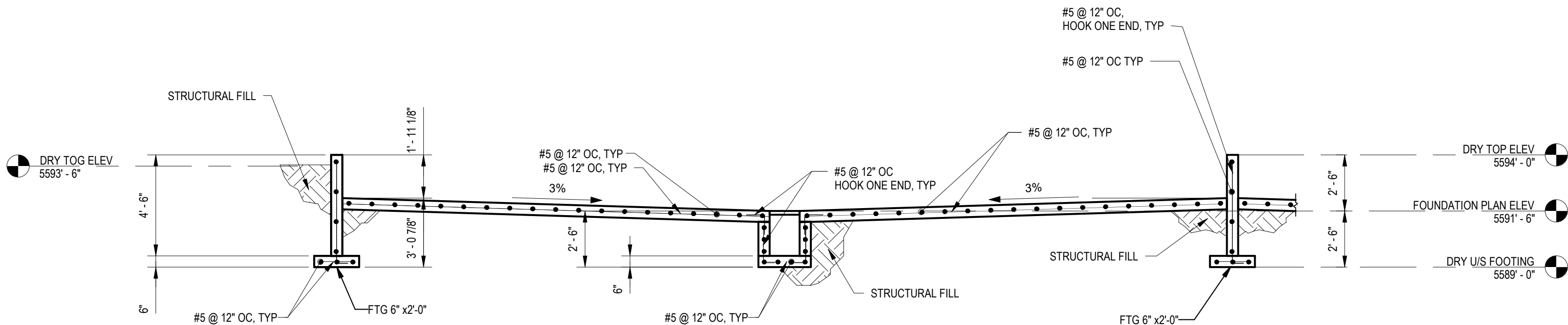
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**STRUCTURAL  
SLUDGE DRYING BEDS OVERALL PLAN  
AND SECTIONS**

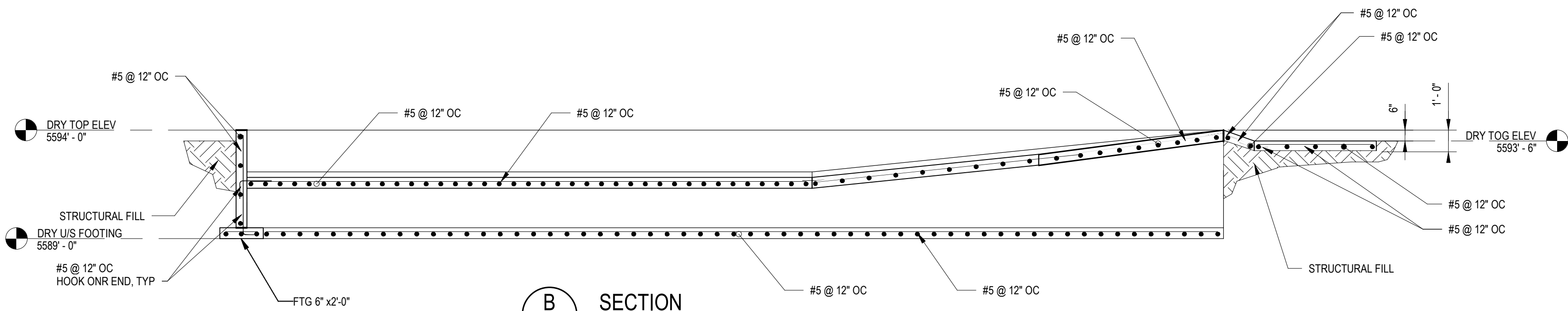
SHEET NUMBER:	REV. #
DWG- 10-DRY-S-1001	
SHEET 70 OF 223	



**1 SLUDGE DRYING BEDS OVERALL PLAN**  
SCALE: 1" = 10'-0"  
0 5' 10' 20'

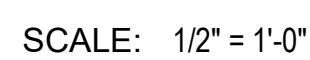


**A SECTION**  
SCALE: 1/4" = 1'-0"



**B SECTION**  
SCALE: 1/4" = 1'-0"





SHEET NUMBER:	REV. #
DWG- 10-DRY-S-1002	0
SHEET 71 OF 223	



ELECTRICAL SYMBOLS LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	EXISTING REMOVE NEW WORK HIDDEN OR BURIED  HOMERUN CONDUIT GROUND PHASE SWITCHED NEUTRAL ISOLATED GROUND  FLEXIBLE CONDUIT CONDUIT TURNING DOWN CONDUIT TURNING UP CONDUIT UP AND DOWN CONDUIT SEAL CONDUIT CAP  BUSWAY WITH DESCRIPTION  GROUNDING CONDUCTOR  CABLE TRAY WITH DESCRIPTION  CEILING JUNCTION BOX WALL JUNCTION BOX DUPLX RECEPTACLE OUTLET SINGLE RECEPTACLE OUTLET  DOUBLE DUPLX RECEPTACLE OUTLET  GROUND FAULT CIRCUIT INTERRUPTER DUPLX OUTLET WITH WEATHERPROOF COVER  SPLIT WIRED DUPLX RECEPTACLE  DUPLX ISOLATED GROUND  SPECIAL PURPOSE OUTLET – USE SUBSCRIPT TO IDENTIFY TYPE IN SPECS  FLOOR RECEPTACLE OUTLET USE SUBSCRIPT TO IDENTIFY TYPE IN SPECS  RECEPTACLE RACEWAY  SINGLE POLE SWITCH – USE SUBSCRIPT TO DESIGNATE CONTROL OF PARTICULAR OUTLETS  DOUBLE POLE SWITCH  THREE–WAY SWITCH  FOUR–WAY SWITCH  WEATHERPROOF SWITCH  KEY OPERATED SWITCH  DIMMER SWITCH – NUMBER INDICATES WATTAGE  OCCUPANCY SENSING SWITCH  PHOTOCELL  REMOTE CONTROL SWITCH 6 POLE, 30 AMPS  FLUORESCENT LUMINAIRE A=FIXTURE TYPE 1=CIRCUIT NUMBER b=SWITCH CONTROLLING FIXTURE  FLUORESCENT STRIP LUMINAIRE  WALL MOUNTED FLUORESCENT LUMINAIRE  CEILING MOUNTED LUMINAIRE  WALL MOUNTED LUMINAIRE  EMERGENCY LUMINAIRE  LIGHT POLE WITH LUMINAIRE		EMERGENCY LIGHTING UNIT  CEILING MOUNTED EXIT SIGN – ARROW AS INDICATED  TWO FACED EXIT SIGN  WALL MOUNTED EXIT SIGN  SWITCHBOARD, POWER PANELBOARD  LIGHTING PANELBOARD  TRANSFORMER  NON–FUSIBLE SAFETY SWITCH (NUMBER INDICATES SWITCH SIZE)  FUSED SAFETY SWITCH (NUMBERS INDICATE FUSE/SWITCH SIZES)  COMBINATION MAGNETIC STARTER AND CIRCUIT BREAKER 2 – INDICATES NEMA STARTER SIZE 20 – INDICATES CIRCUIT BREAKER TRIP  MAGNETIC STARTER  ADJUSTABLE SPEED DRIVE  MOTOR (NUMBER INDICATES HP)  BELL  HORN "H" OR SIREN "S"  BUZZER  PUSHBUTTON  MANUAL PULL STATION  FIRE ALARM HORN (V=VISUAL SIGNAL)  PHOTOELECTRIC SMOKE DETECTOR  IONIZATION SMOKE DETECTOR  THERMAL DETECTOR  DUCT SMOKE DETECTOR (PHOTOELECTRIC)  MAGNETIC DOOR HOLDER  PRESSURE SWITCH  FLOW SWITCH  VALVE SUPERVISORY SWITCH  FIRE ALARM CONTROL PANEL  FIRE ALARM RACEWAY CEILING SPEAKER  WALL SPEAKER  TELECOMMUNICATIONS OUTLET  FLOOR MOUNTED TELECOMMUNICATIONS OUTLET  INTERCOM OUTLET  TELECOMMUNICATIONS RACEWAY  PROTECTED TRANSMISSION SYSTEM (PTS) DATA TERMINAL CONNECTION  TELEVISION OUTLET  CARD READER  ELECTRIC DOOR STRIKE  DOOR CONTACTS  REMOTE ACCESS PANEL  HAND GEOMETRY UNIT  MOTION DETECTOR  CLOSED CIRCUIT TV CAMERA		MEDIUM VOLTAGE DISCONNECT SWITCH  MEDIUM VOLTAGE DRAWOUT CIRCUIT BREAKER  TRANSFORMER (DELTA–WYE CONN.)  SHIELDED TRANSFORMER  DRAWOUT CIRCUIT BREAKER  CIRCUIT BREAKER WITH GROUND FAULT INTERRUPTER  MOTOR CIRCUIT PROTECTOR  MOTOR CONTROL CENTER STARTER UNIT  FUSE  GROUND  GENERATOR  CURRENT TRANSFORMER (NUMBERS INDICATE RATIO AND QUANTITY)  POTENTIAL TRANSFORMER (NUMBER INDICATES QUANTITY)  AMMETER SWITCH  VOLTMETER SWITCH  VOLTMETER  AMMETER  KILOWATT METER  TRANSFER SWITCH  KEY INTERLOCK #1  BATTERY  NORMALLY CLOSED CONTACT  NORMALLY OPEN CONTACT  PROTECTIVE RELAY, SOLENOID COIL  THERMAL OVERLOAD  CONNECTION  CROSS, NO CONNECTION  SURGE ARRESTOR  TRANSIENT VOLTAGE SURGE SUPPRESSOR  CAPACITOR  CONTROL RELAY #1  BUS PLUG CIRCUIT BREAKER THERMOSTAT  KEYED NOTE DESIGNATION  ELECTRICAL EQUIPMENT DESIGNATION (SEE SCHEDULE) MECHANICAL EQUIPMENT DESIGNATION (SEE SCHEDULE) NAMEPLATE DESIGNATION (SEE SCHEDULE) WEATHERPROOF ABOVE FINISH FLOOR

GENERAL ELECTRICAL NOTES

(NOT ALL SYMBOLS & NOTES WILL APPLY TO THIS PROJECT)

1. PERFORM INSTALLATION IN ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), AND APPLICABLE DOE ORDERS. EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL).

2. PROVIDE AND MAINTAIN A CLEAR WORKING SPACE ABOUT ELECTRIC EQUIPMENT (SWITCHBOARDS,PANELBOARDS, ETC.) IN ACCORDANCE WITH NEC ARTICLES 110.26 AND 110.34.

3. USE 600 VAC CIRCUIT BREAKERS IN 480V AND 480Y/277V SWITCHBOARDS, PANELBOARDS AND MOTOR CONTROL CENTERS.

4. PROVIDE CIRCUIT BREAKERS WITH UL LISTED INTERRUPTING RATING (RMS SYMMETRICAL AMPERES) GREATER THAN THE AVAILABLE FAULT CURRENT SHOWN ON THE ELECTRICAL ONE–LINE DIAGRAM.

5. PROVIDE PADLOCKING PROVISIONS FOR EACH TWO– AND THREE–POLE CIRCUIT BREAKER.

6. BOND RACEWAYS AND THE FRAMES AND ENCLOSURES OF MOTORS, BREAKERS, SWITCHES, AND OTHER ELECTRICAL EQUIPMENT TO THE BUILDING GROUNDING SYSTEM. INSTALL AN INSULATED EQUIPMENT GROUND CONDUCTOR IN EACH RACEWAY OR CONDUIT. SIZE EQUIPMENT GROUND CONDUCTOR IN ACCORDANCE WITH NEC TABLE 250.122.

7. IDENTIFY NEW BRANCH CIRCUITS AT THE PANEL AND AT THE LOAD OUTLET, RECEPTACLE AND SWITCH. IDENTIFY THE PURPOSE OF INDIVIDUAL CIRCUIT BREAKERS, SAFETY SWITCHES AND MOTOR STARTERS BY MEANS OF NAMEPLATES AS INDICATED.

8. ROUTE CONDUITS TO SUIT EQUIPMENT AND BUILDING STRUCTURE. LIMIT THE USE OF ELECTRICAL METALLIC TUBING (EMT) TO AREAS WHERE IT WILL NOT BE SUBJECT TO PHYSICAL DAMAGE OR CORROSION. USE INTERMEDIATE METAL CONDUIT (IMC) OR RIGID GALVANIZED STEEL CONDUIT (RGS) FOR WORK EMBEDDED IN CONCRETE OR EXPOSED TO PHYSICAL DAMAGE. USE MINIMUM 3/4 INCH CONDUIT EXCEPT AS FOLLOWS: 1/2" CONDUIT MAY BE USED FOR 20 AMP GENERAL LIGHT AND POWER CIRCUITS AND FOR CONTROL CIRCUITS; 3/8" FLEXIBLE METAL CONDUIT MAY BE USED TO CONNECT LIGHT FIXTURES IN SUSPENDED CEILINGS. USE LIQUID–TIGHT FLEXIBLE METAL CONDUIT FOR FLEXIBLE CONNECTIONS TO EQUIPMENT IN MECHANICAL ROOMS OR OUTDOORS.

9. SEAL AROUND CONDUIT PENETRATIONS THROUGH INTERIOR WALLS AND FLOORS SEPARATING AREAS TO RESTORE ORIGINAL FIRE RATING; USE A UL CLASSIFIED FIRE SEALANT. SEAL PENETRATIONS THROUGH ROOF AND EXTERIOR WALLS TO MAKE WATERPROOF. REQUEST INSPECTION OF FIRE SEALS BY ELECTRICAL INSPECTOR FROM AUTHORITY HAVING JURISDICTION BEFORE AND AFTER PLACEMENT OF FIRE SEAL MATERIALS.

10. USE 12 AWG OR LARGER CONDUCTORS FOR POWER WIRING. USE 14 AWG STRANDED CONDUCTORS FOR CONTROL WIRING UNLESS OTHERWISE SPECIFIED OR SHOWN ON THE DRAWINGS.

11. USE ONLY COPPER CONDUCTORS ON CIRCUITS 600V AND LESS. CONDUCTORS 10 AWG AND SMALLER SHALL BE SOLID AND 8 AWG AND LARGER AWG SHALL BE STRANDED. PROVIDE TYPE THHN/THWN WIRE INSULATION; XHHW INSULATION MAY BE USED FOR 1 AWG AND LARGER.
12. USE THE FOLLOWING CONDUCTOR COLOR CODES:

	208Y/120 VOLT	480Y/277 VOLT
PHASE A	BLACK	BROWN
PHASE B	RED	ORANGE
PHASE C	BLUE	YELLOW
NEUTRAL	WHITE	GRAY
EQUIP. GROUND	GREEN	GREEN

ISOLATED GROUND SHALL BE GREEN WITH YELLOW TRACER.

13. ARRANGE CONNECTIONS FOR SINGLE PHASE CIRCUITS TO ACHIEVE THREE PHASE LOAD BALANCE WITHIN 20% OF THE AVERAGE PHASE LOAD CURRENT. UNGROUNDED CONDUCTORS USING A COMMON NEUTRAL MUST ORIGINATE FROM DIFFERENT PHASES.

14. INSTALL OUTDOOR EQUIPMENT TO BE WEATHERPROOF AND TO EXCLUDE BIRDS AND RODENTS WITH MAXIMUM 1/2" DIAMETER UNPROTECTED OPENINGS IN ENCLOSURES.

15. PROVIDE LIGHTNING PROTECTION IN ACCORDANCE WITH NFPA 780. PROVIDE MATERIAL THAT IS UL LABELED FOR LIGHTNING PROTECTION SERVICE. THE LIGHTNING PROTECTION SYSTEM DESIGN AND INSTALLATION SHALL FOLLOW THAT SHOWN ON THE DRAWINGS.

16. TEST CONDUCTORS FOR CONTINUITY AND FREEDOM FROM SHORTS AND UNINTENTIONAL GROUNDS.

17. ELECTRICAL EQUIPMENT SPECIFIED IN THIS DOCUMENT SHALL BE ACCEPTANCE TESTED AND INSPECTED IN ACCORDANCE WITH UL.

18. ELECTRICAL MATERIALS AND CONSTRUCTION SHALL CONFORM TO OWNERS/PROJECT MANAGERS STANDARD CONSTRUCTION SPECIFICATIONS WHERE APPLICABLE.

19. DISPOSE OF ITEMS REMOVED AS DIRECTED BY THE OWNER/PROJECT CONSTRUCTION INSPECTOR.

20. REPAIR AREAS DAMAGED DURING CONSTRUCTION TO MATCH ADJACENT AREAS WITH RESPECT TO BOTH COLOR AND FINISH.

21. KEEP JOB SITE IN AN ORDERLY CONDITION AND AT PROJECT COMPLETION, REMOVE ALL WASTE. LEAVE THE JOB SITE IN A CONDITION ACCEPTABLE TO THE OWNER/PROJECT CONSTRUCTION INSPECTOR.

22. IF A CONFLICT ARISES BETWEEN THE FIELD CONDITIONS AND THESE GENERAL ELECTRICAL REQUIREMENTS, CONTACT THE OWNER/PROJECT LEADER FOR DIRECTIONS.

23. TIE–INS TO EXISTING POWER SYSTEMS WILL BE PERFORMED BY THE PROJECT SUPPORT SERVICES SUB–CONTRACTOR.

DRAWING NOTES

1. DRAWINGS ARE MEANT TO BE A REPRESENTATION ONLY, DEVICES MAY LOOK DIFFERENT THAN WHAT WE HAVE SHOWN.
2. REFER TO PRODUCT SPECIFICATIONS FOR EXACT DIMENSIONS OF ENCLOSURE, BACK PANEL & ALL DEVICES DRAWN IN THESE DRAWINGS.

NOTING SYMBOLS & DESIGNATIONS

- #

CORRESPONDS TO A BILL OF MATERIALS #
- 55

CORRESPONDS TO A KEYED NOTE #
- (INDICATES DETAIL DESIGNATION)

X

X–X

TITLE NOTATION & SEE DETAIL SYMBOL
- (INDICATES SHEET NUMBER)



4221 BALLOON PARK RD NE  
ALBUQUERQUE, NM 87109



PROJECT:  
**KAYENTA WWTP  
IMPROVEMENTS PROJECT**

**NAVAJO TRIBAL  
UTILITY AUTHORITY**

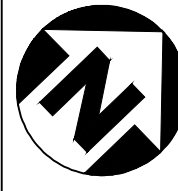
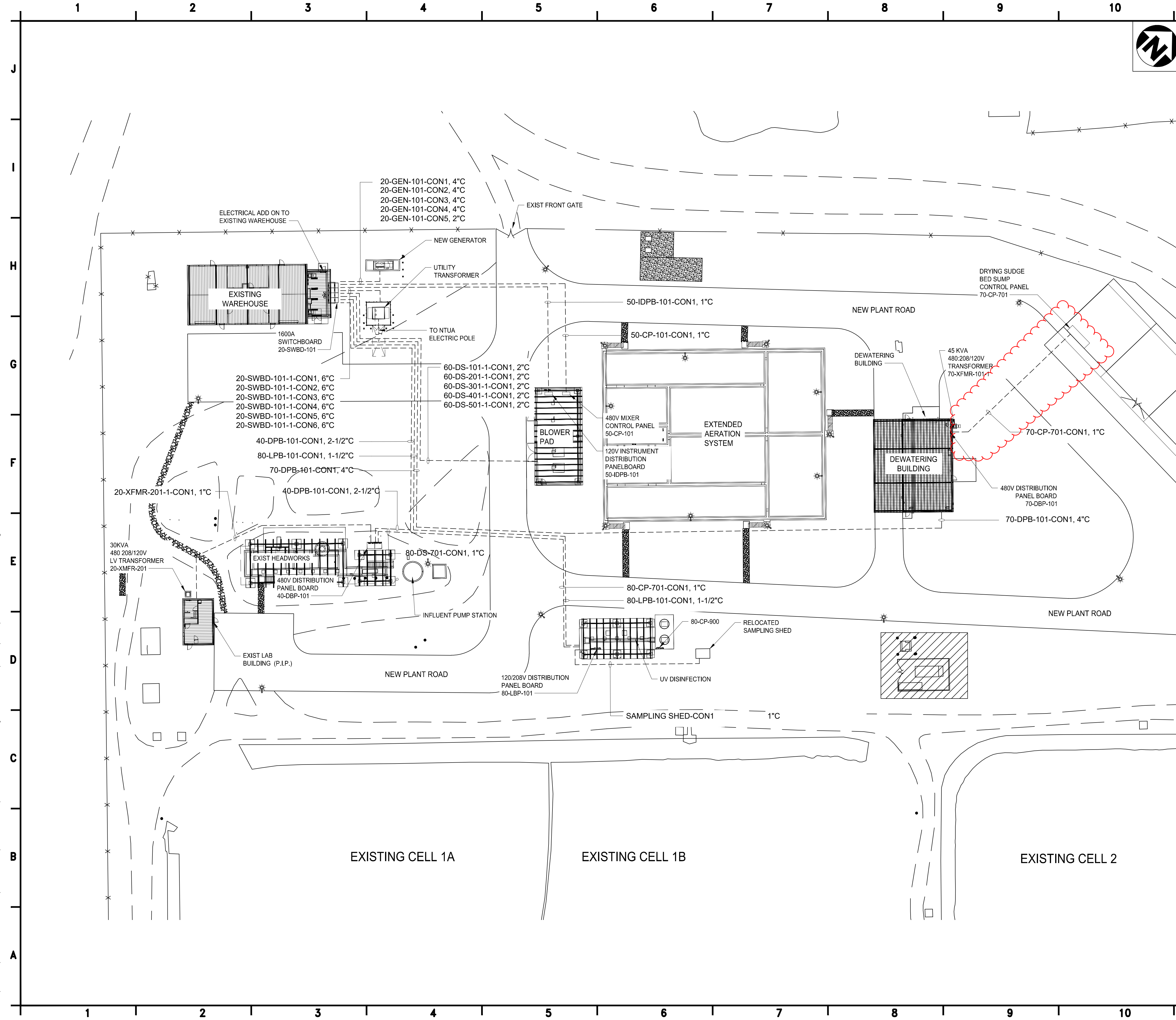
WSP PROJECT No:  
2151700032

REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY:	<b>RSB</b>
DRAWN BY:	<b>RSB</b>
CHECKED BY:	<b>PP</b>
APPROVED BY:	<b>PP</b>
DATE:	08NOV2022

SHEET TITLE: <b>PROCESS FLOW SYMBOLS &amp; NOTES PG.1 - P &amp; ID</b>	
SHEET NUMBER: <b>N-A02</b>	REV. # <b>0</b>
SHEET <b>186</b> OF <b>223</b>	





GENERAL SHEET NOTES

1. ALL DATA SHOWN HEREIN CONCERNING EXISTING PRIVATELY AND PUBLICLY OWNED UTILITIES AND FROM FIELD OBSERVATIONS. THESE MAY OR MAY NOT BE ACCURATE. THE CONTRACTOR IS CAUTIONED THAT HE IS RESPONSIBLE FOR THE EXACT LOCATION AND PROTECTION OF ALL LINES DURING CONSTRUCTION.
2. THE UNDERGROUND CONDUIT ROUTING IS DIAGRAMMATICALLY SHOWN. CONTRACTOR IS RESPONSIBLE TO LOCATE AND ROUTE THE CONDUITS TO THE MOST EFFICIENT WAY PER FIELD VERIFICATION. PROVIDE PULL BOXES AS REQUIRED TO LIMIT CONDUIT BENDS TO NO MORE THAN 360 DEGREES.
3. ALL UNDERGROUND CONDUITS ARE PVC SCHEDULE 40 FOR NON HEAVY TRAFFIC AREAS AND SCHEDULE 80 FOR HEAVY TRAFFIC AREAS, WITH PVC COATED STEEL RISERS HALF LAP WRAPPED WITH SCOTCHRAP-50 CORROSION INHIBITING TAPE.
4. ALL ABOVE GROUND CONDUITS SHALL BE PVC COATED RIGID GALVANIZED STEEL UNLESS NOTED OTHERWISE
5. REFER TO DRAWING NUMBER 10-GEN-C-1004 FOR DEMOLITION OF EXISTING UTILITY OVERHEAD LINES AND ABANDONED UNDERGROUND ELECTRIC CONDUITS.
6. CONTRACTOR TO COORDINATE WITH NTUA ELECTRIC FOR INSTALLATION OF PRIMARY CONDUCTOR AND CONDUIT SIZING.



4221 BALLOON PARK RD NE  
ALBUQUERQUE, NM 87109



PROJECT:  
KAYENTA WWTP  
IMPROVEMENTS PROJECT



NAVAJO TRIBAL  
UTILITY AUTHORITY

WSP PROJECT No:  
2151700032

REVISIONS		
NO.	DATE	DESCRIPTION

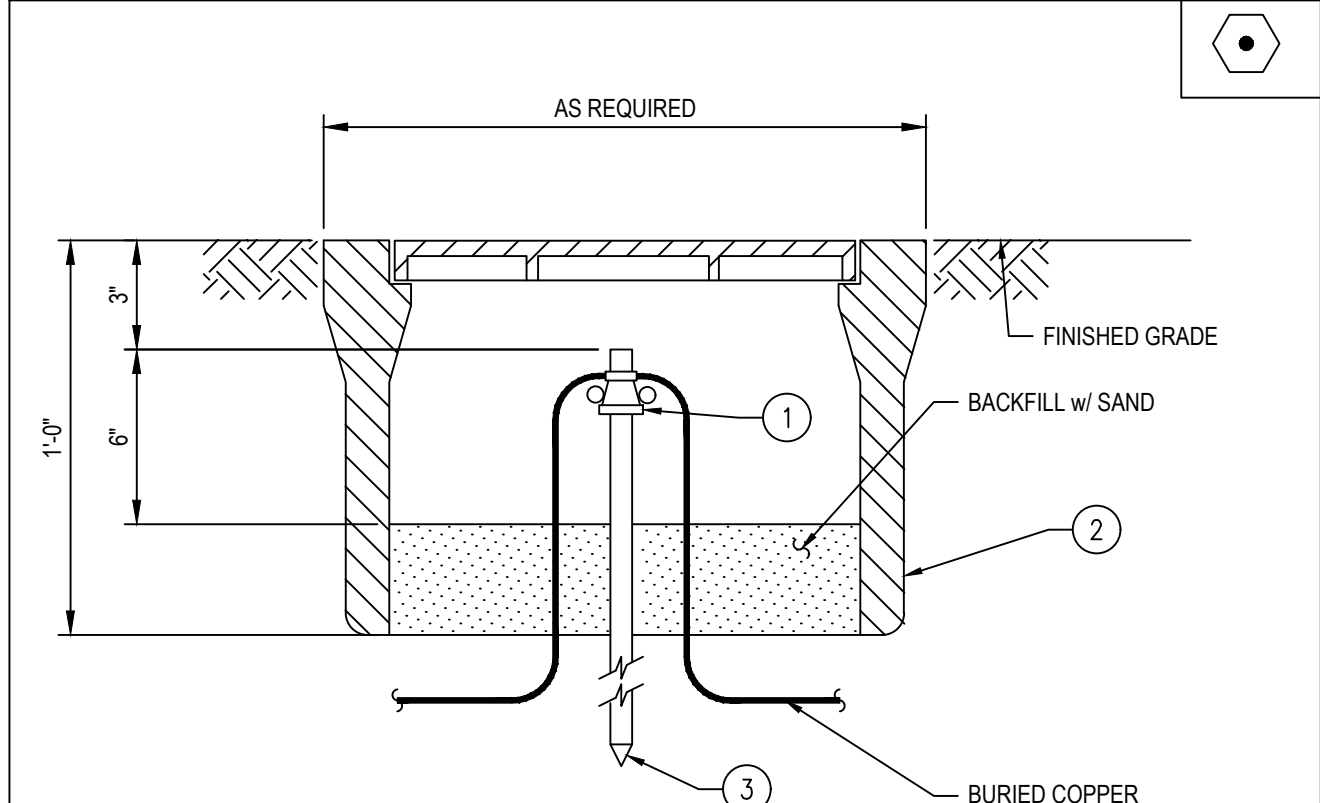
DESIGNED BY:	SA
DRAWN BY:	SA
CHECKED BY:	JJ
DATE:	09NOV2022

SHEET TITLE:  
ELECTRICAL  
CONDUIT LAYOUT  
SITE PLAN

SHEET NUMBER:	REV. #
10-GEN-E-1006	0
SHEET 151 OF 223	

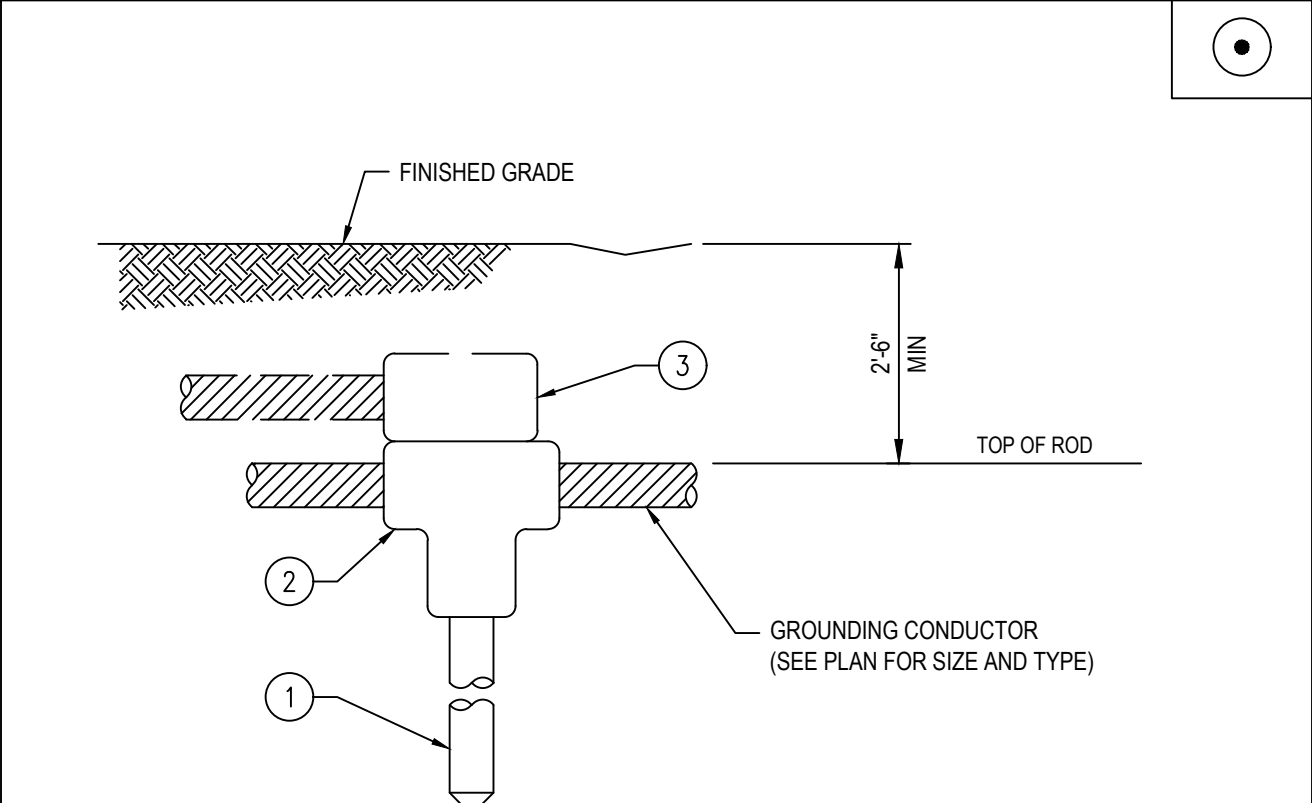






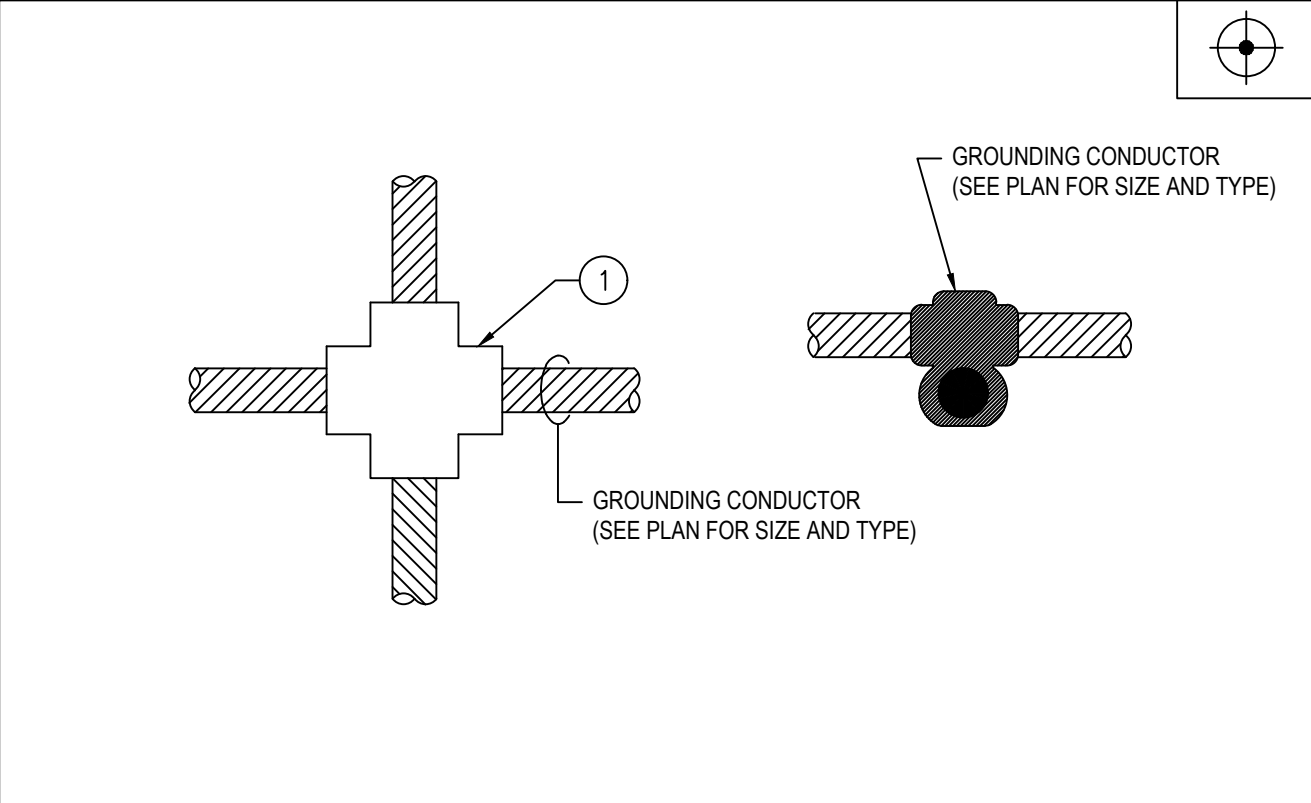
ITEM	MATERIAL DESCRIPTION			QTY.	REMARKS
	CONDUCTOR SIZE	GROUND CONNECTION CATALOG NUMBER			
1	#20 TO 250 kcmil	BURNDY GAR6429 OR EQUAL		1	
2	METER BOX			1	
3	COPPER CLAD GROUND ROD, 3/4" X 10'-0"			1	

1 TYPICAL TEST WELL



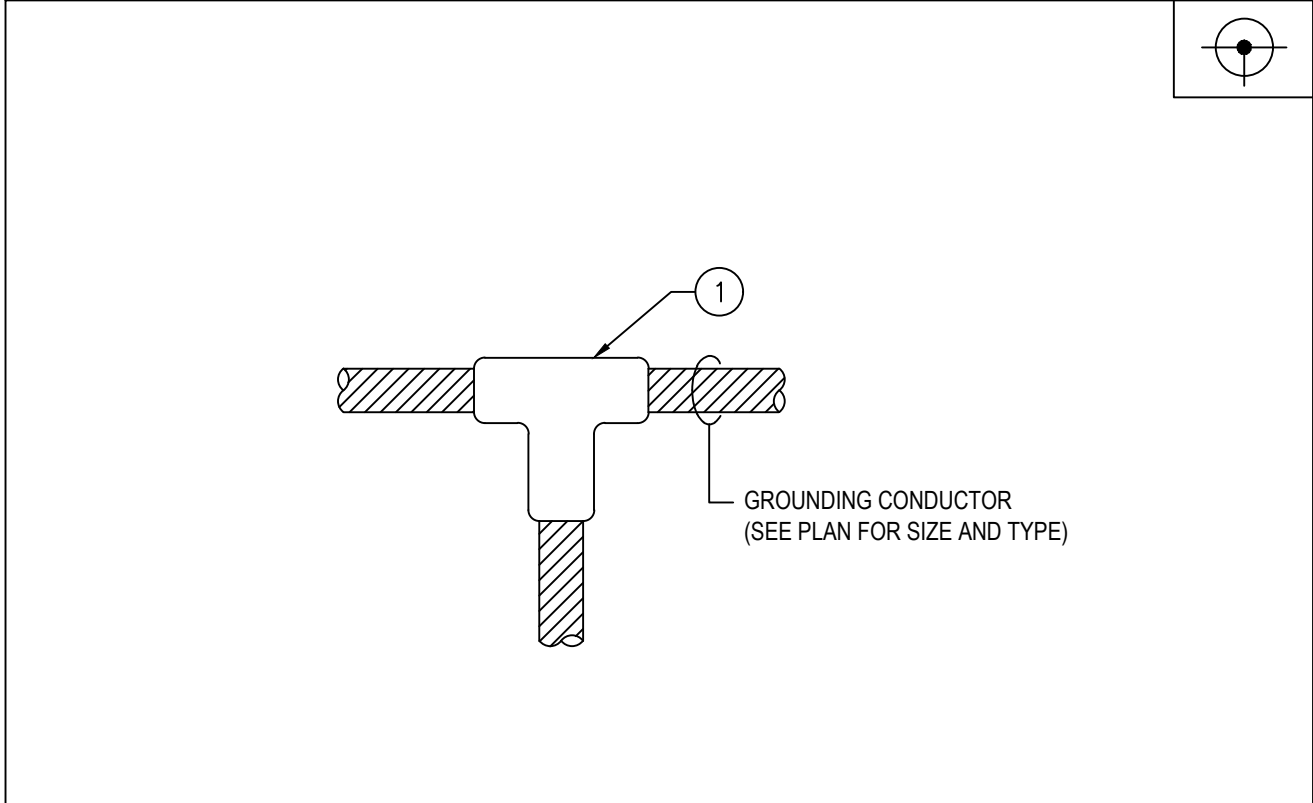
ITEM	MATERIAL DESCRIPTION			QTY.	REMARKS
	CONDUCTOR SIZE	GROUND CONNECTION CATALOG NUMBER			
1	COPPER CLAD GROUND ROD, 3/4" X 10'-0"			1	
2	USE MOLD CADWELD MOLD FAMILY "GT" WITH CORRECT WELD MATERIAL PER VENDOR REQUIREMENTS FOR CONDUCTOR SIZE.			A/R	OR EQUAL
3	USE MOLD CADWELD MOLD FAMILY "NC" WITH CORRECT WELD MATERIAL PER VENDOR REQUIREMENTS FOR CONDUCTOR SIZE.			A/R	OR EQUAL

2 TYPICAL GROUND ROD



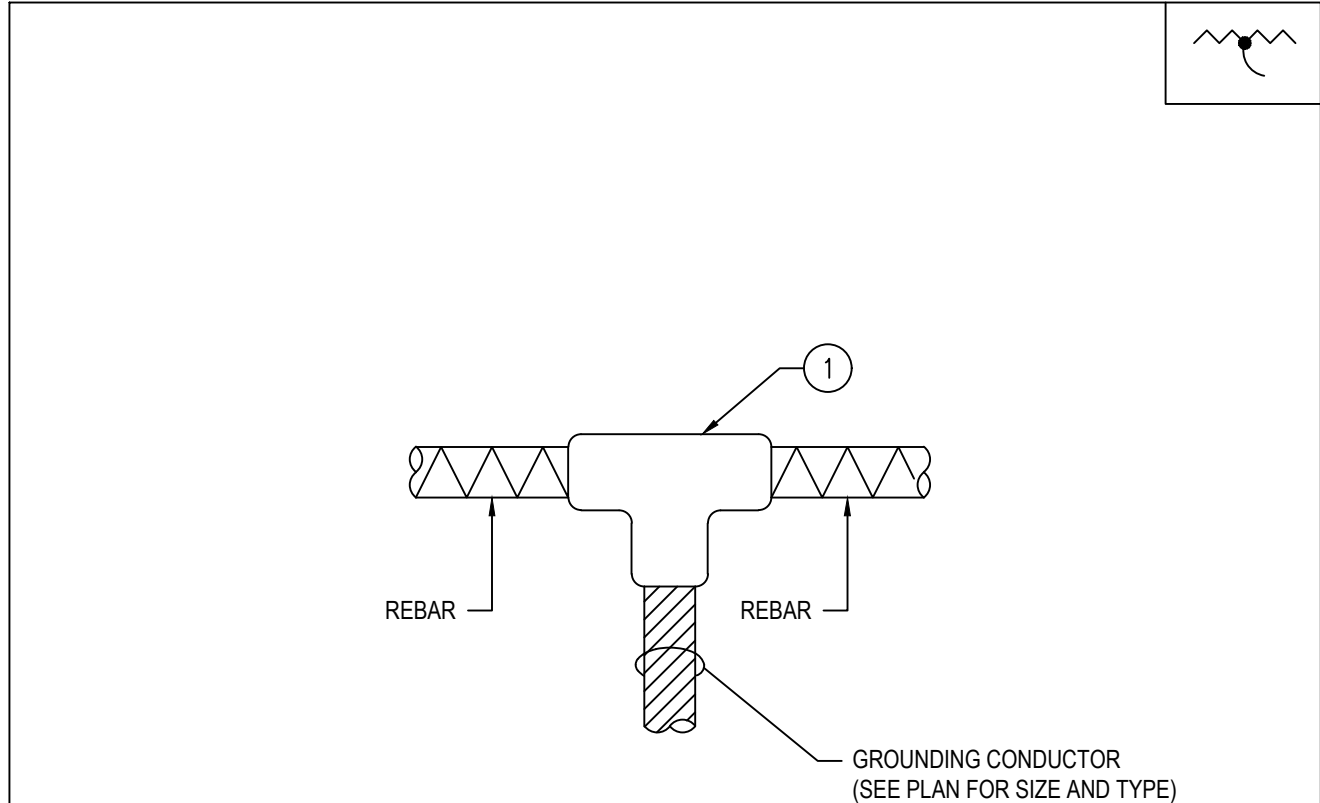
ITEM	MATERIAL DESCRIPTION			QTY.	REMARKS
	CONDUCTOR SIZE	GROUND CONNECTION CATALOG NUMBER			
1	USE MOLD CADWELD MOLD FAMILY "XB" WITH CORRECT WELD MATERIAL PER VENDOR REQUIREMENTS FOR CONDUCTOR SIZE.			A/R	OR EQUAL

3 TYPICAL "X" SHAPE THERMOWELD



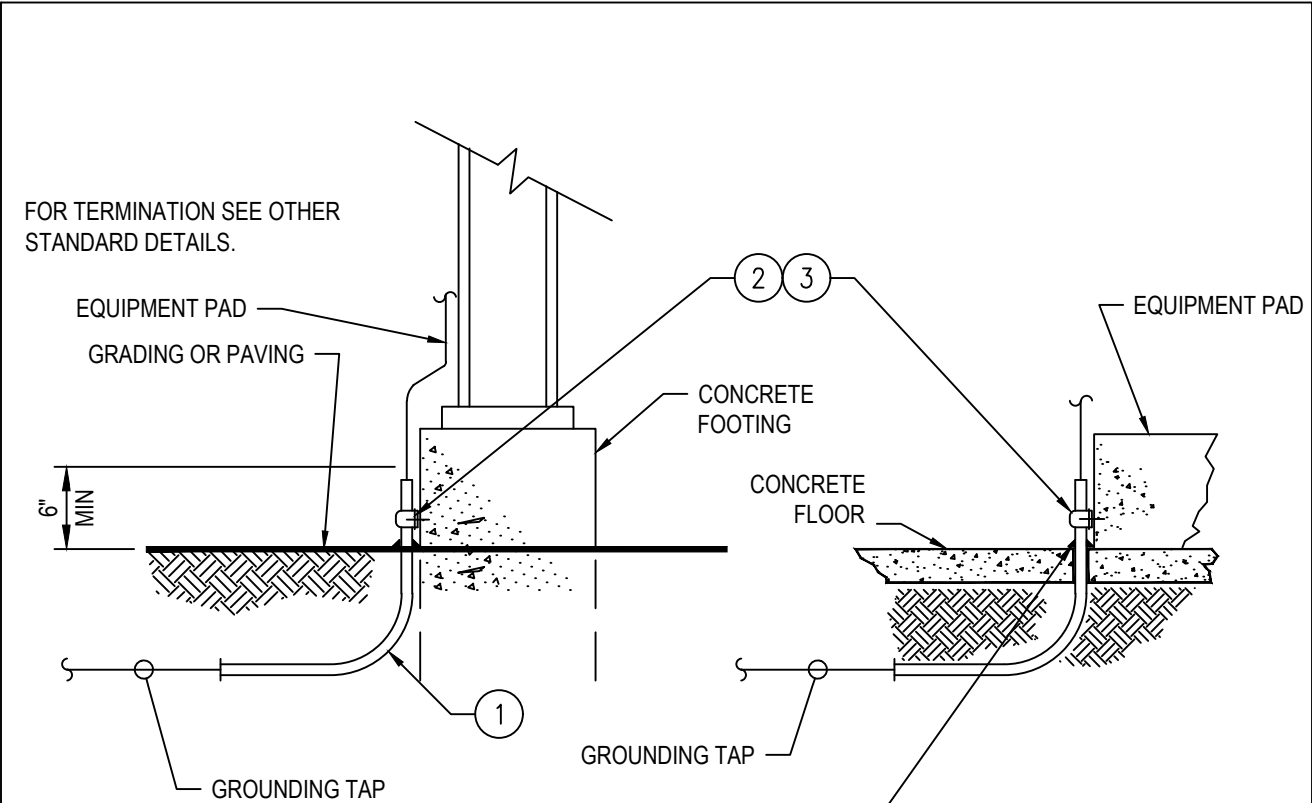
ITEM	MATERIAL DESCRIPTION			QTY.	REMARKS
	CONDUCTOR SIZE	GROUND CONNECTION CATALOG NUMBER			
1	USE MOLD CADWELD MOLD FAMILY "TA" WITH CORRECT WELD MATERIAL PER VENDOR REQUIREMENTS FOR CONDUCTOR SIZE.			A/R	OR EQUAL

4 TYPICAL TEE THERMOWELD



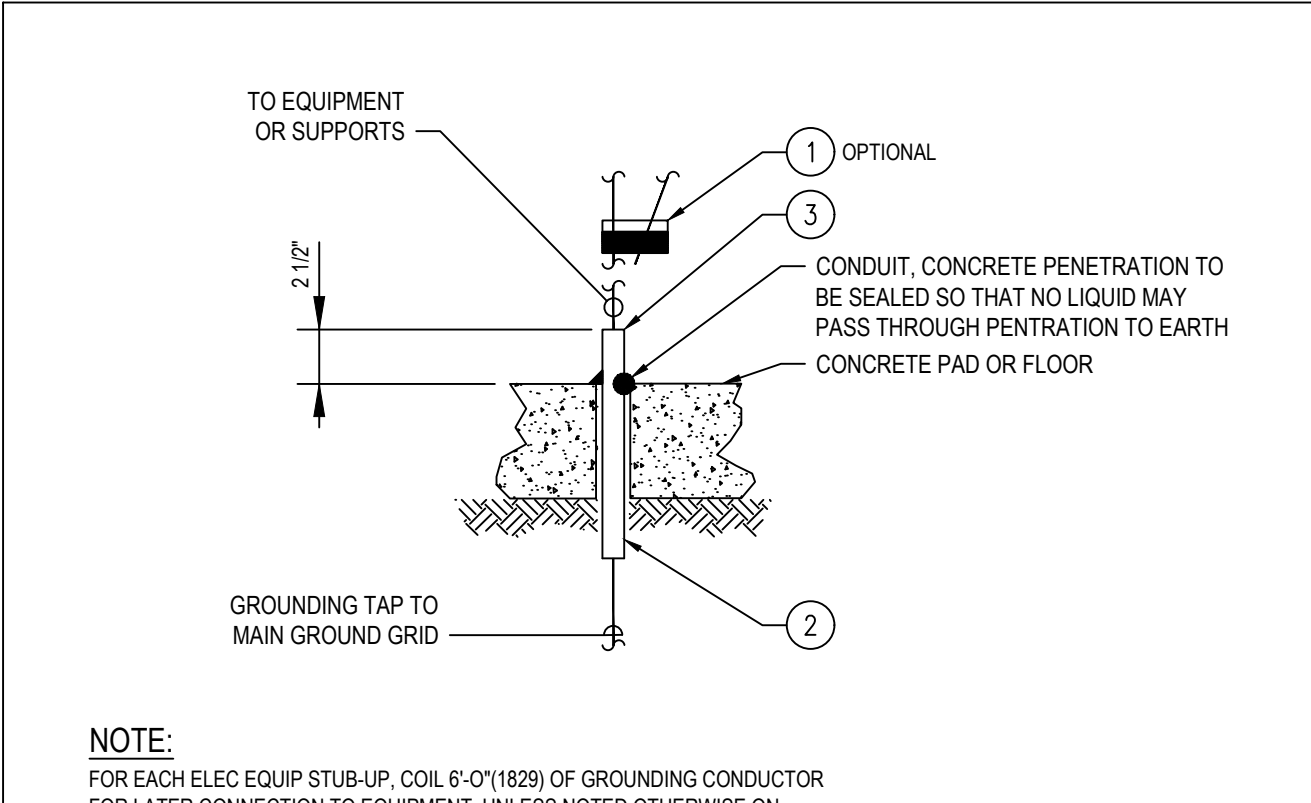
ITEM	MATERIAL DESCRIPTION			QTY.	REMARKS
	CONDUCTOR SIZE	GROUND CONNECTION CATALOG NUMBER			
1	USE MOLD CADWELD MOLD FAMILY "RH" WITH CORRECT WELD MATERIAL PER VENDOR REQUIREMENTS FOR CONDUCTOR SIZE.			A/R	OR EQUAL

5 GROUND CONDUCTOR TO REBAR (THERMOWELD)



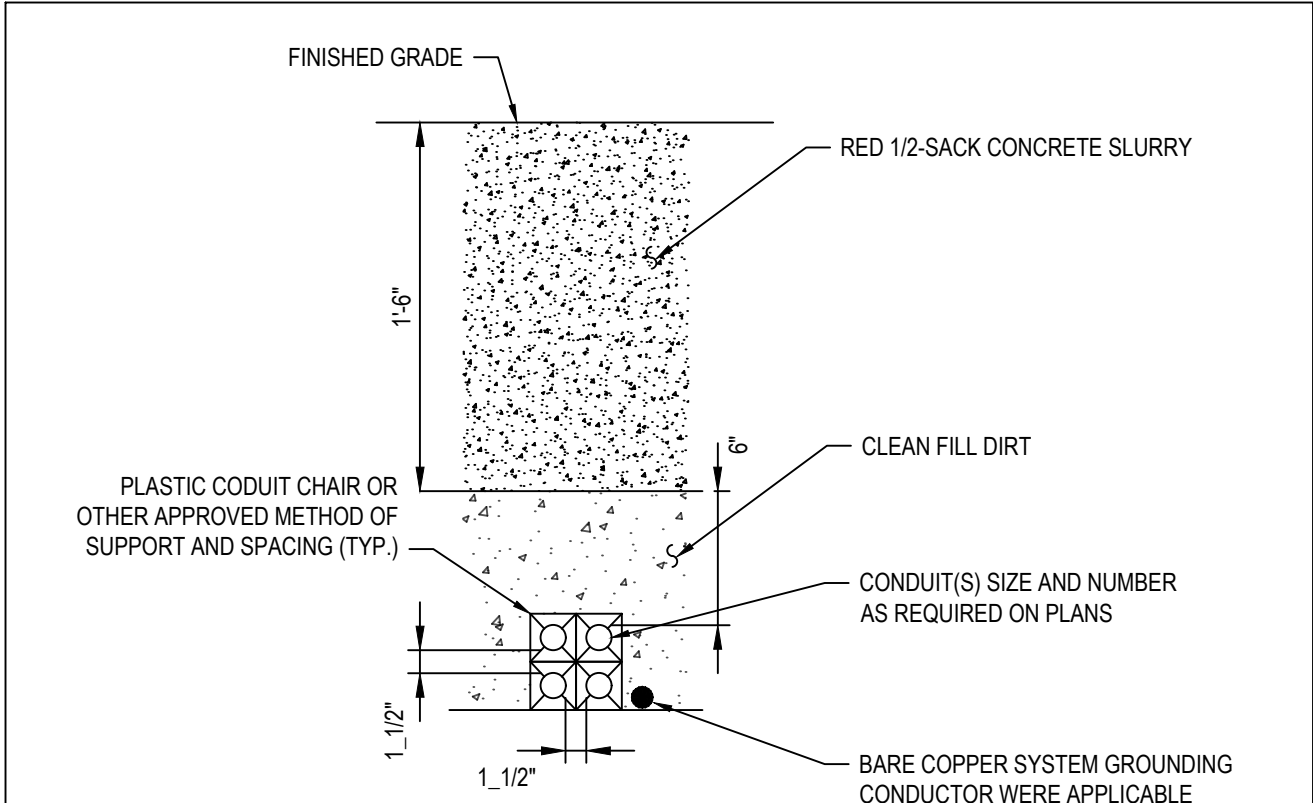
ITEM	MATERIAL DESCRIPTION			QTY.	REMARKS
	CONDUCTOR SIZE	GROUND CONNECTION CATALOG NUMBER			
1	1" PVC CONDUIT (SCHED 40 OR GREATER)			AR	
2	1" CONDUIT CLAMP, 1-HOLE			1	
3	1/4" ANCHOR			1	

6 TYPICAL STRUCTURAL GROUNDING



ITEM	DESCRIPTION			QTY.	REMARKS
	CONDUCTOR SIZE	GROUND CONNECTION CATALOG NUMBER			
1	GROUND TAP CONNECTOR			1	
2	SCHEDUAL 40 OR 80 PVC CONDUIT			AR	
3	GROUND CONDUCTOR PER PLAN VIEW			AR	SEE NOTE

7 TYPICAL GROUNDING STUB-UP THROUGH CONCRETE



ITEM	DESCRIPTION			QTY.	REMARKS
	CONDUCTOR SIZE	GROUND CONNECTION CATALOG NUMBER			

8 TYPICAL UNDERGROUND CONDUIT DUCTBANK DETAIL

NOTE:  
1. THIS IS A RECOMMENDED INSTALLATION DETAIL. THE CONTRACTOR MAY DEVIATE BUT MUST MEET (IN ORDER OF PRECEDENCE) THE NEC (NATION ELECTRIC CODE), LOCAL CODES, PROJECT SPECIFICATIONS AND PROJECT CONSTRUCTION DRAWINGS.



4221 BALLOON PARK RD NE  
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PROJECT:  
KAYENTA WWTP  
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2151700032

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NO.	DATE	DESCRIPTION

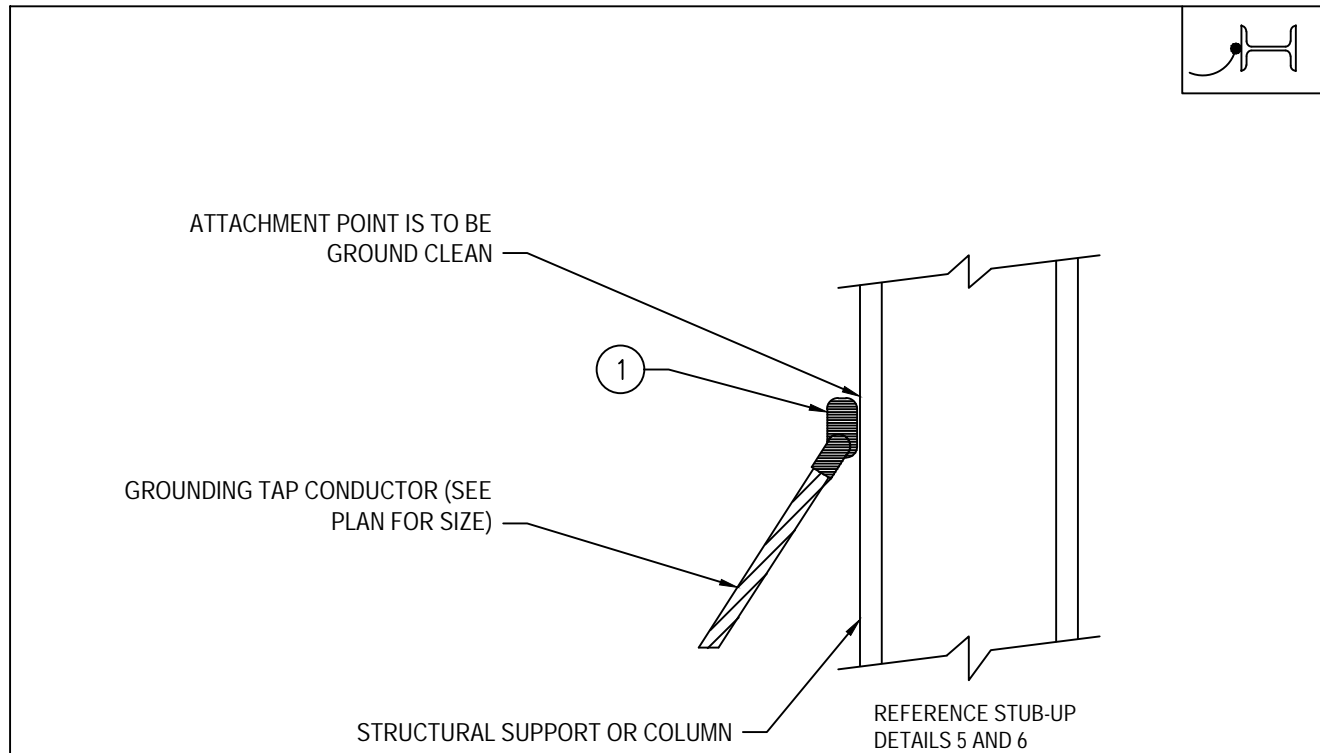
DESIGNED BY:	RSB
DRAWN BY:	RSB
CHECKED BY:	JJ
DATE:	09NOV2022

SHEET TITLE:  
ELECTRICAL  
TYPICAL DETAILS

SHEET NUMBER:	REV. #
10-GEN-E-3001	0
SHEET 154 OF 223	



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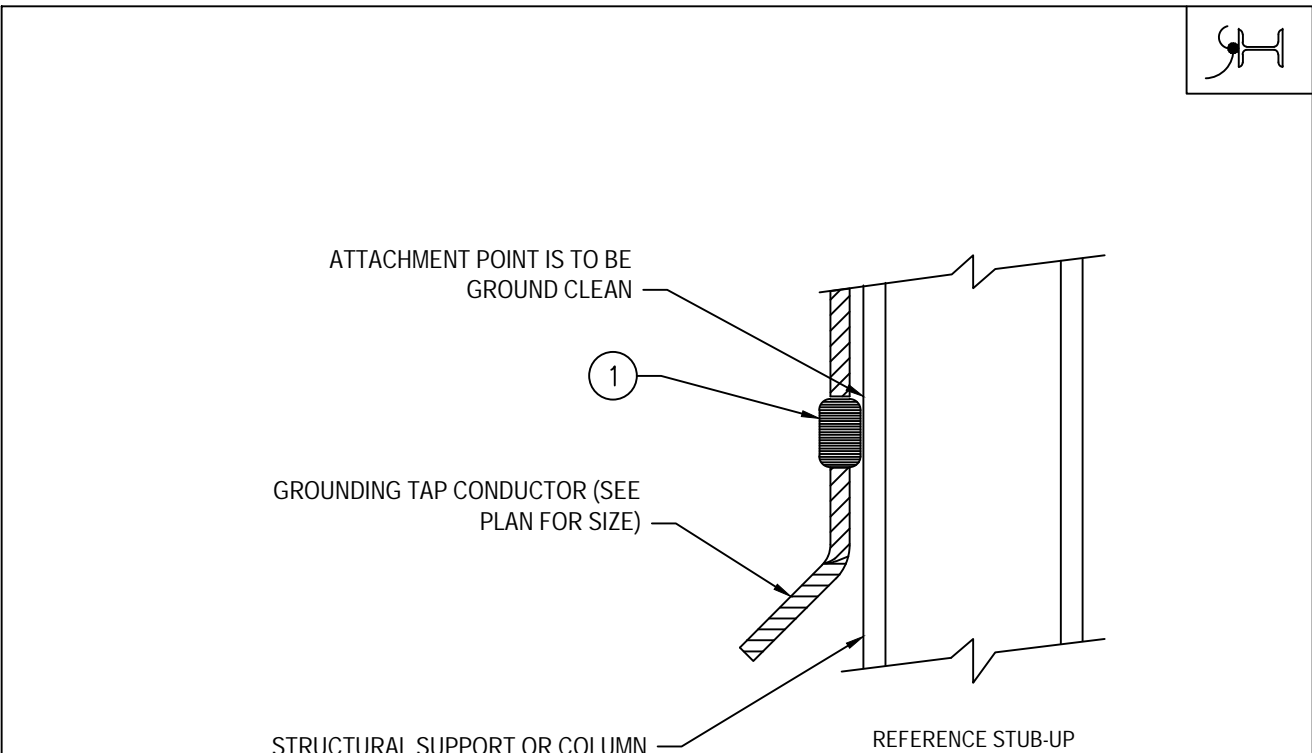


NOTES:

- GROUNDING CONNECTIONS SHALL BE INSTALLED ON VESSEL SUPPORTS. DO NOT ATTACH TO SHELL OF VESSEL.
- REPAIR DAMAGED GALVANIZED SURFACES WITH ZINC RICH PAINT.
- REPAIR DAMAGED FIRE-PROOFING OF COLUMNS AND BEAMS.

ITEM	MATERIAL DESCRIPTION	QTY.	REMARKS
1	USE MOLD CADWELD MOLD FAMILY "VS" WITH CORRECT WELD MATERIAL PER VENDOR REQUIREMENTS FOR CONDUCTOR SIZE.	AR	OR EQUAL

9 TYPICAL GROUNDING CONDUCTOR TO STRUCTURAL

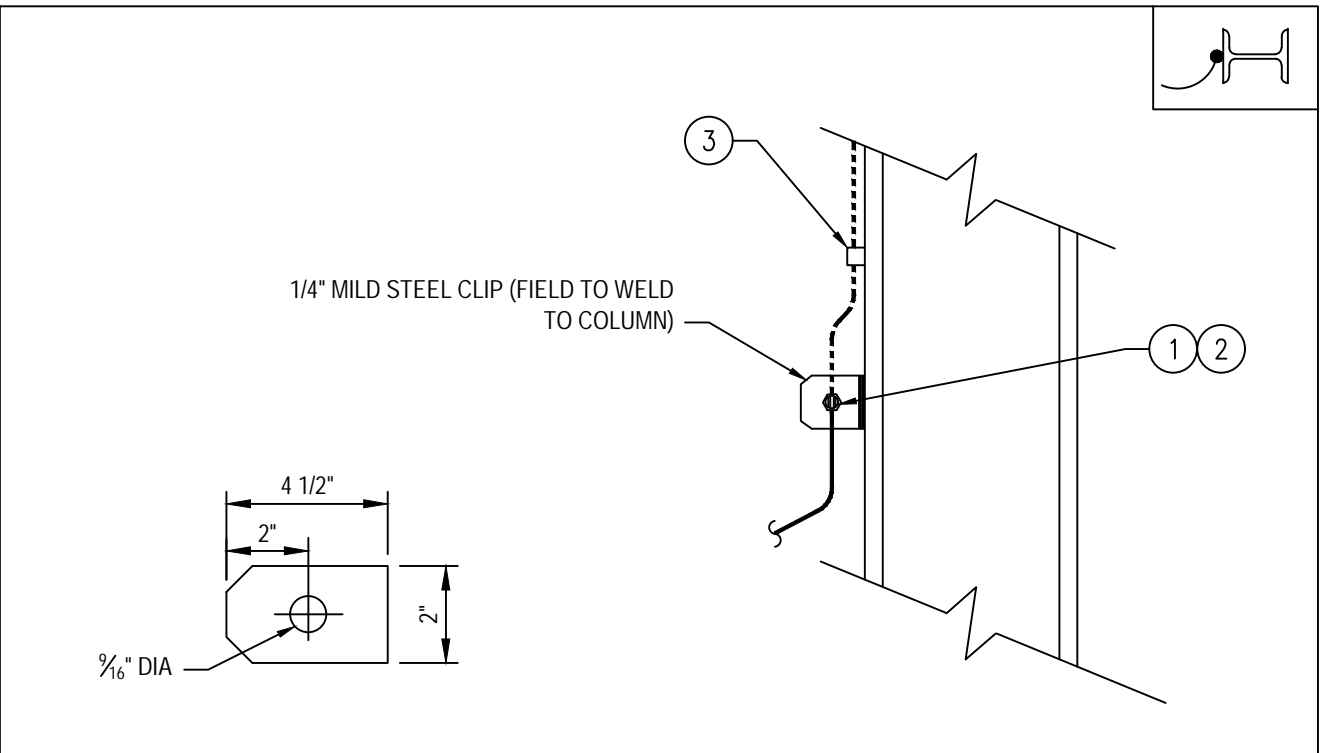


NOTES:

- GROUNDING CONNECTIONS SHALL BE INSTALLED ON VESSEL SUPPORTS. DO NOT ATTACH TO SHELL OF VESSEL.
- REPAIR DAMAGED GALVANIZED SURFACES WITH ZINC RICH PAINT.
- REPAIR DAMAGED FIRE-PROOFING OF COLUMNS AND BEAMS.

ITEM	MATERIAL DESCRIPTION	QTY.	REMARKS
1	USE MOLD CADWELD MOLD FAMILY "W" WITH CORRECT WELD MATERIAL PER VENDOR REQUIREMENTS FOR CONDUCTOR SIZE.	AR	OR EQUAL

10 TYPICAL THROUGH GROUND CONDUCTOR TO STRUCTURAL STEEL (THERMOWELD)

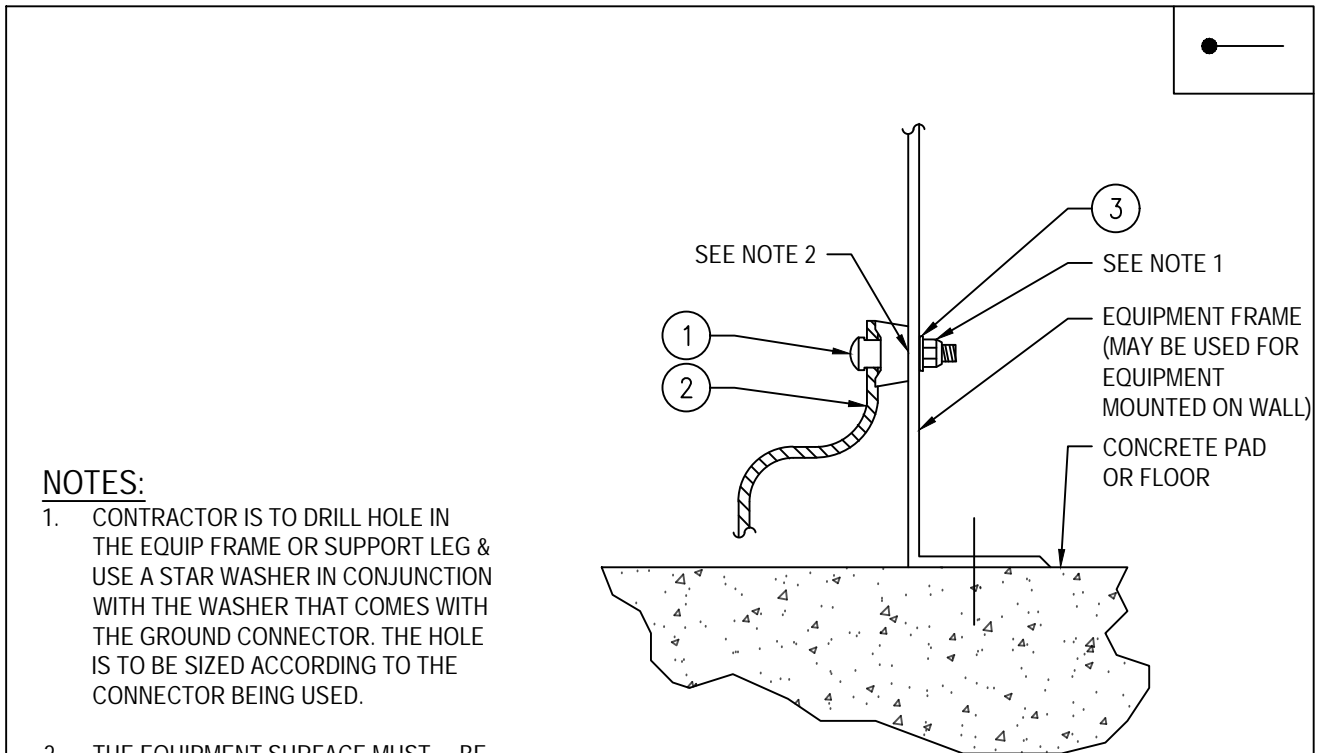


NOTES:

- REFERENCE DETAILS E-SD-610, E-SD-611 AND E-SD-612.

ITEM	MATERIAL DESCRIPTION	QTY.	REMARKS
1	BURNDY TYPE QGFL CONNECTOR OR EQUAL	1	
2	LOCK WASHER, 1/2\"/>	1	
3	CABLE STRAP, 1-HOLE, MALLEABLE IRON	AR	IF CONDUCTOR IS RUN THRU

11 GROUND CONDUCTOR TO STRUCTURAL (MECHANICAL CONNECTION)

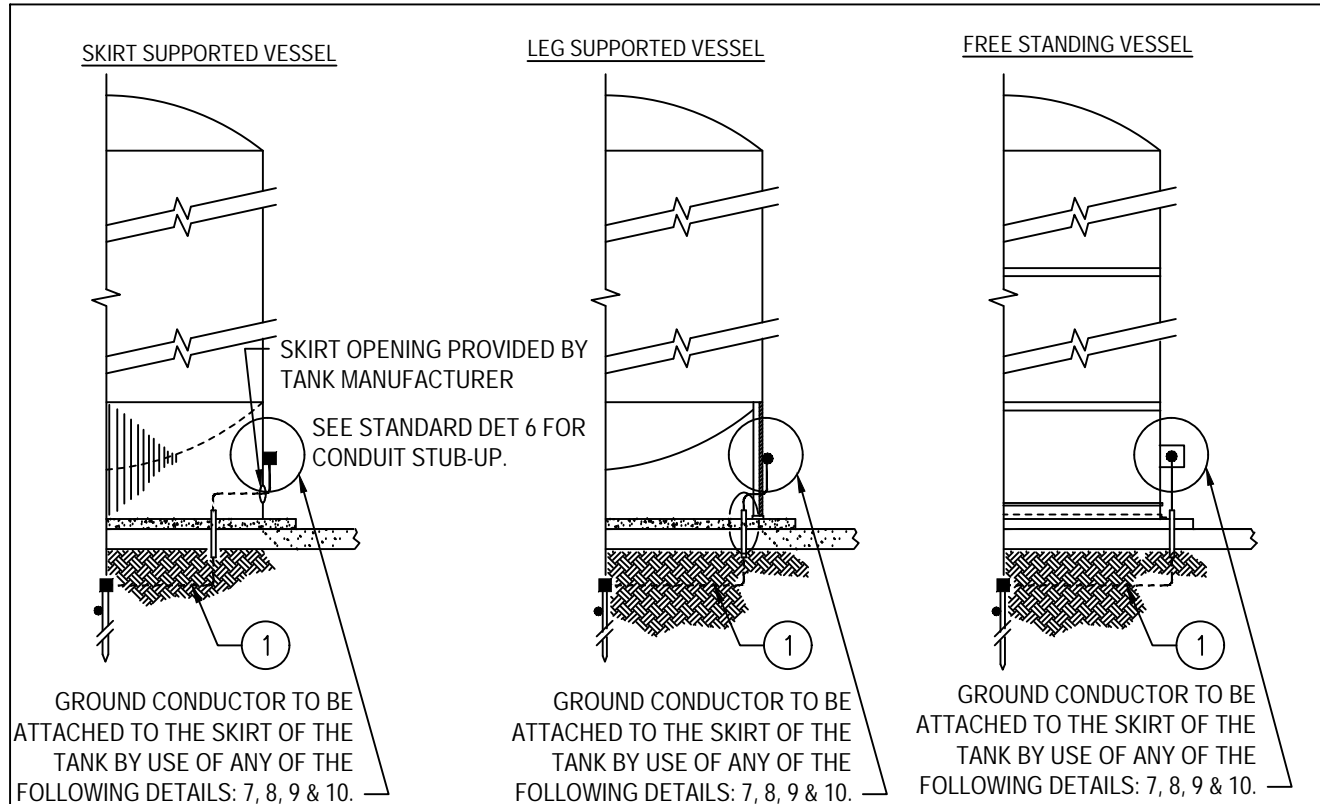


NOTES:

- CONTRACTOR IS TO DRILL HOLE IN THE EQUIP FRAME OR SUPPORT LEG & USE A STAR WASHER IN CONJUNCTION WITH THE WASHER THAT COMES WITH THE GROUND CONNECTOR. THE HOLE IS TO BE SIZED ACCORDING TO THE CONNECTOR BEING USED.
- THE EQUIPMENT SURFACE MUST BE CLEANED TO BARE METAL & THE GROUSE-HINDS TYPE STL (OR EQUAL) CONDUCTING GREASE APPLIED PRIOR TO THE LUG ATTACHMENT.
- REFERENCE DETAILS E-SD-610, E-SD-611 AND E-SD-612.

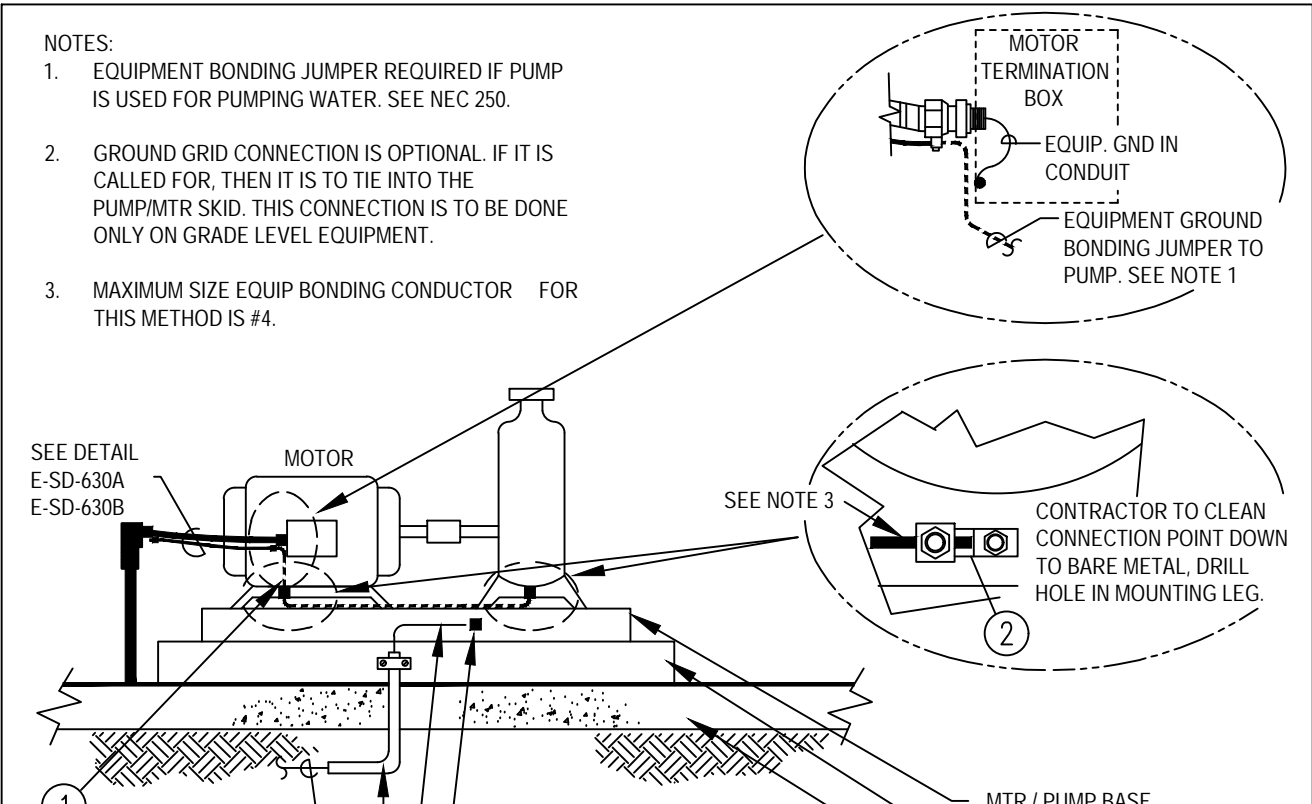
ITEM	DESCRIPTION	QTY.	REMARKS
1	BURNDY TYPE QGFL BARTAP GROUND CONNECTOR	1	OR EQUAL
2	GROUND CONDUCTOR	AR	
3	STAR WASHER, 1/2\"/>	1	

12 EQUIPMENT FRAME GROUND



ITEM	DESCRIPTION	QTY.	REMARKS
1	GROUNDING CONDUCTOR	AR	

13 TANK GROUNDING

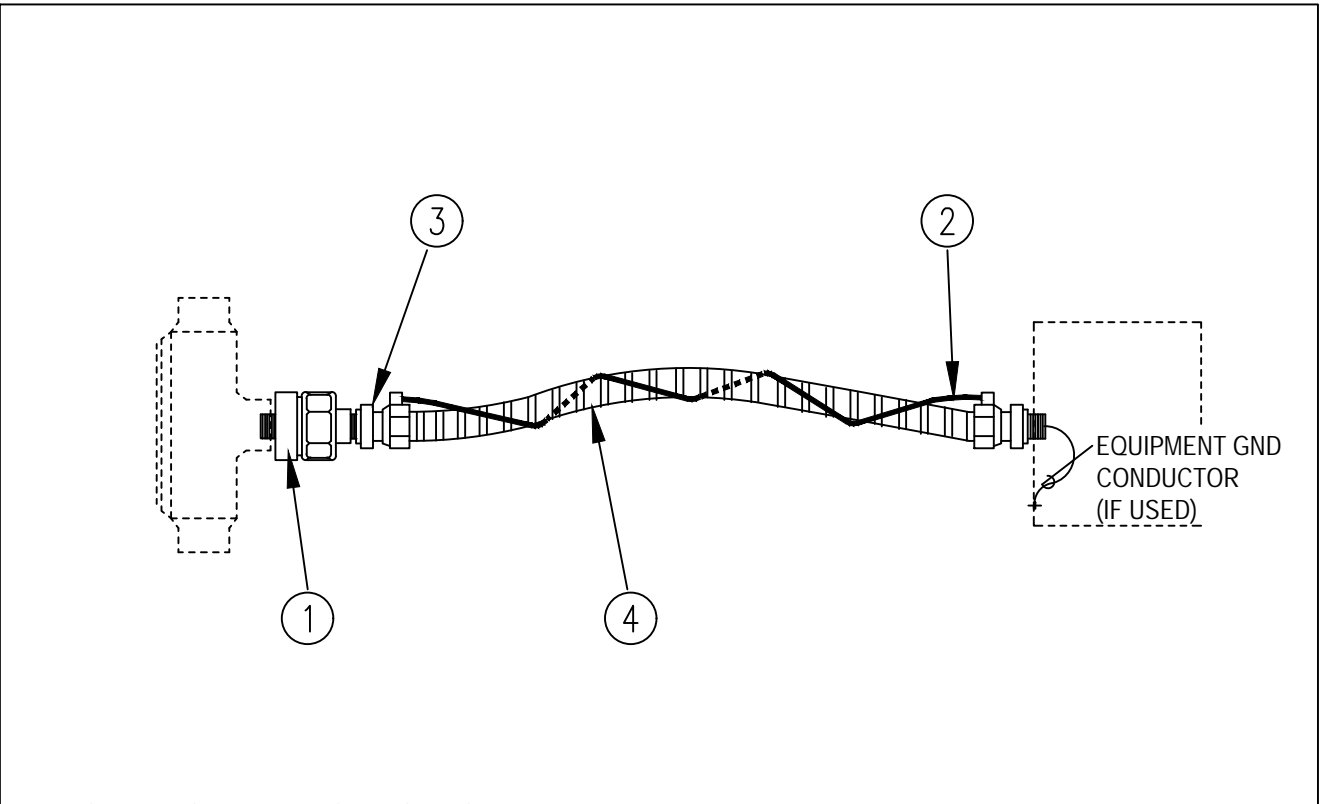


NOTES:

- EQUIPMENT BONDING JUMPER REQUIRED IF PUMP IS USED FOR PUMPING WATER. SEE NEC 250.
- GROUND GRID CONNECTION IS OPTIONAL. IF IT IS CALLED FOR, THEN IT IS TO BE TIE INTO THE PUMP/MTR SKID. THIS CONNECTION IS TO BE DONE ONLY ON GRADE LEVEL EQUIPMENT.
- MAXIMUM SIZE EQUIP BONDING CONDUCTOR FOR THIS METHOD IS #4.

ITEM	DESCRIPTION	QTY.	REMARKS
1	GREEN INSULATED STRANDED EQUIPMENT GND BOND	AR	
2	BURNDY TYPE QA GROUND CONNECTOR OR EQUAL	1	

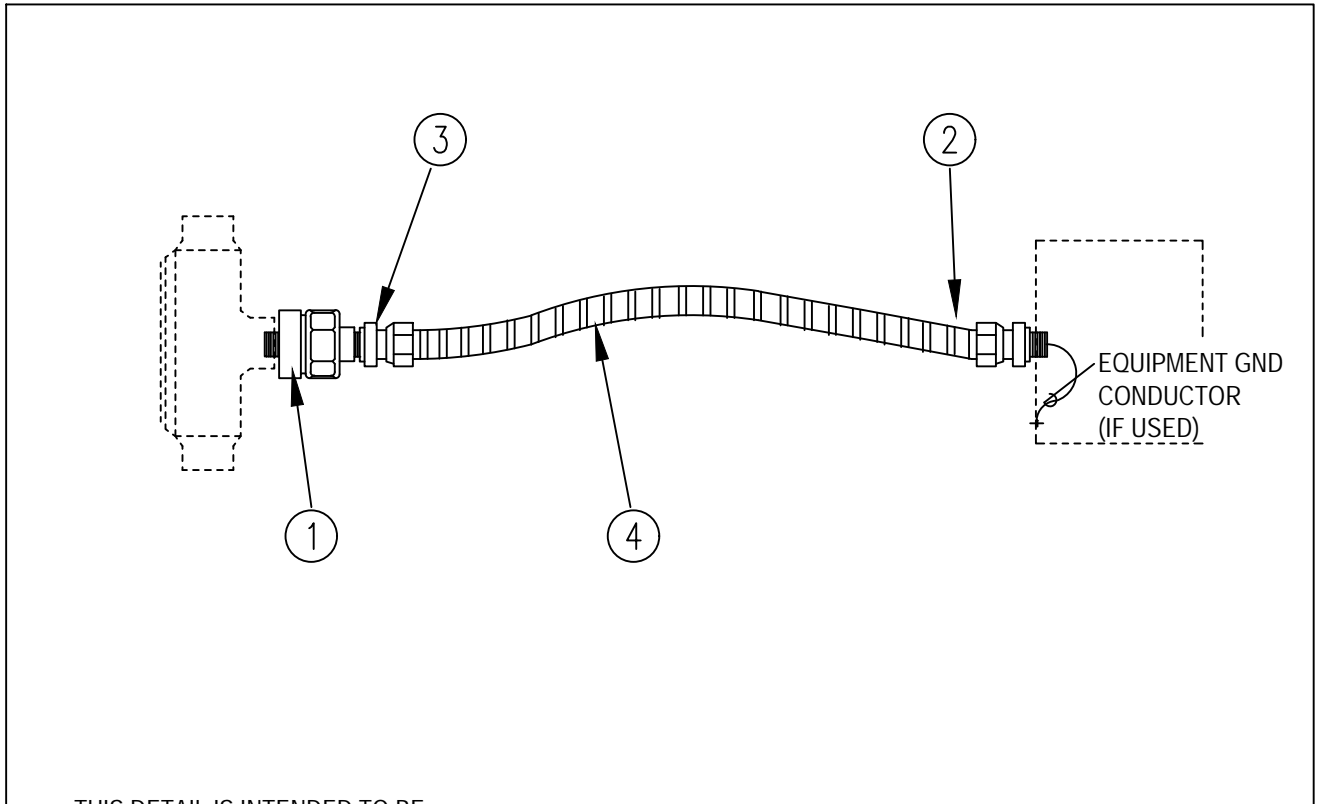
14 PUMP GROUNDING



THIS DETAIL IS INTENDED TO BE USED FOR ALL METAL/ON-METALIC LIQUID-TIGHT OR NON LIQUID-TIGHT FLEXIBLE CONDUIT. THE EXCEPTION IS FLEXIBLE CONDUIT WITH A BUILT IN EQUIPMENT GROUND.

ITEM	DESCRIPTION	QTY.	REMARKS
1	CONDUIT UNION	1	
2	#6 STRANDED, GREEN INSULATED GROUND CONDUCTOR	AR	
3	APPLETON TYPE STB CONNECTOR W/ GND LUG OR EQUAL	2	
4	LIQUIDTIGHT FLEXIBLE METAL CONDUIT	AR	

15 GND BONDING CONDUCTOR



THIS DETAIL IS INTENDED TO BE USED FOR ALL METALIC LIQUID-TIGHT OR NON LIQUID-TIGHT FLEXIBLE CONDUIT.

ITEM	DESCRIPTION	QTY.	REMARKS
1	CONDUIT UNION	1	
2	LIQUIDTIGHT CONNECTOR (LISTED FOR GROUNDING)	2	
3	LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LISTED FOR GROUNDING)	AR	

16 GND BONDING CONDUCTOR

NOTE:

- THIS IS A RECOMMENDED INSTALLATION DETAIL. THE CONTRACTOR MAY DEVIATE BUT MUST MEET (IN ORDER OF PRECEDENCE) THE NEC (NATION ELECTRIC CODE), LOCAL CODES, PROJECT SPECIFICATIONS AND PROJECT CONSTRUCTION DRAWINGS.



4221 BALLOON PARK RD NE  
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PROJECT:  
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NAVAJO TRIBAL  
UTILITY AUTHORITY

WSP PROJECT No:  
2151700032

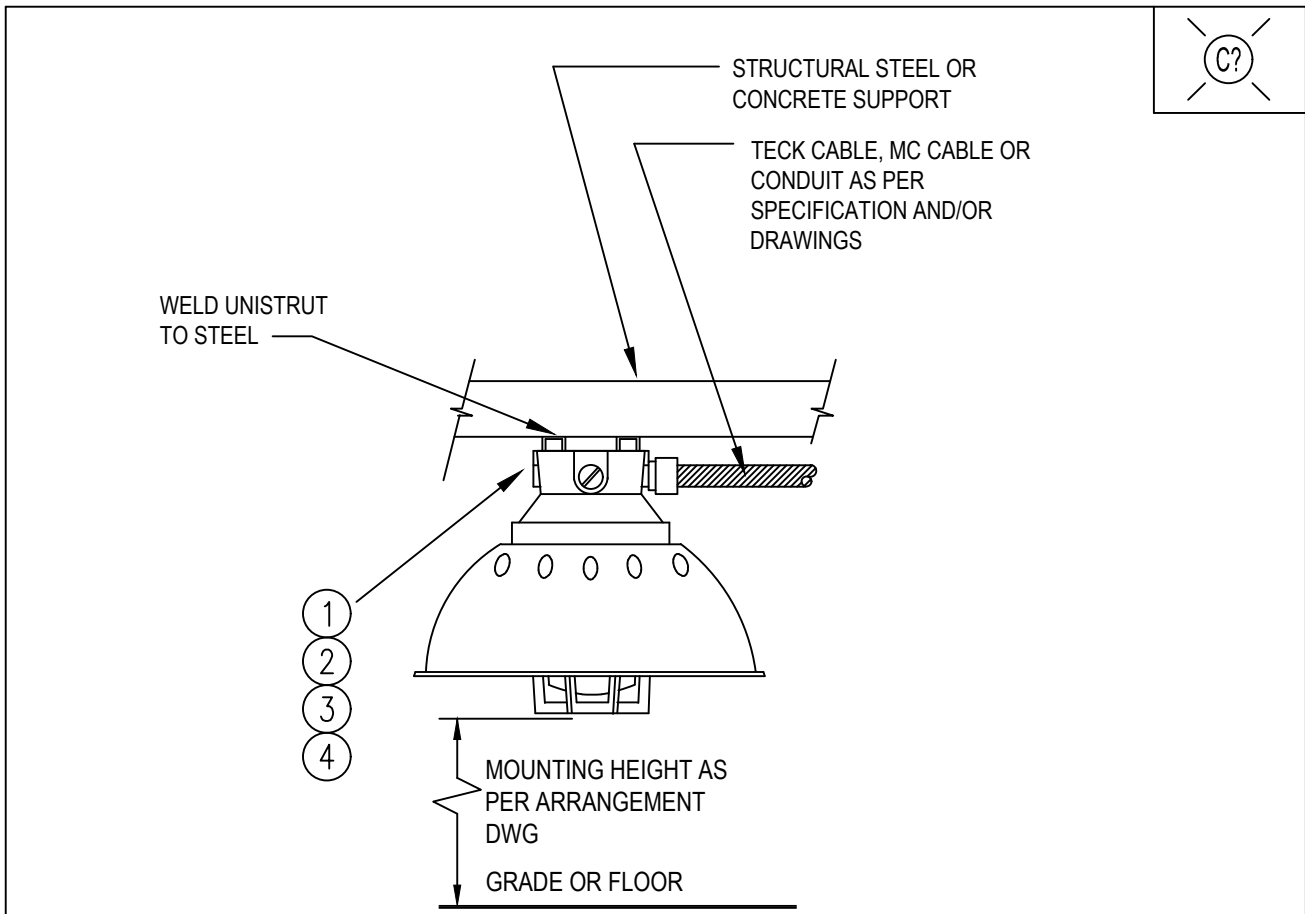
REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY:	RSB
DRAWN BY:	RSB
CHECKED BY:	JJ
DATE:	09NOV2022

SHEET TITLE:  
ELECTRICAL  
TYPICAL DETAILS

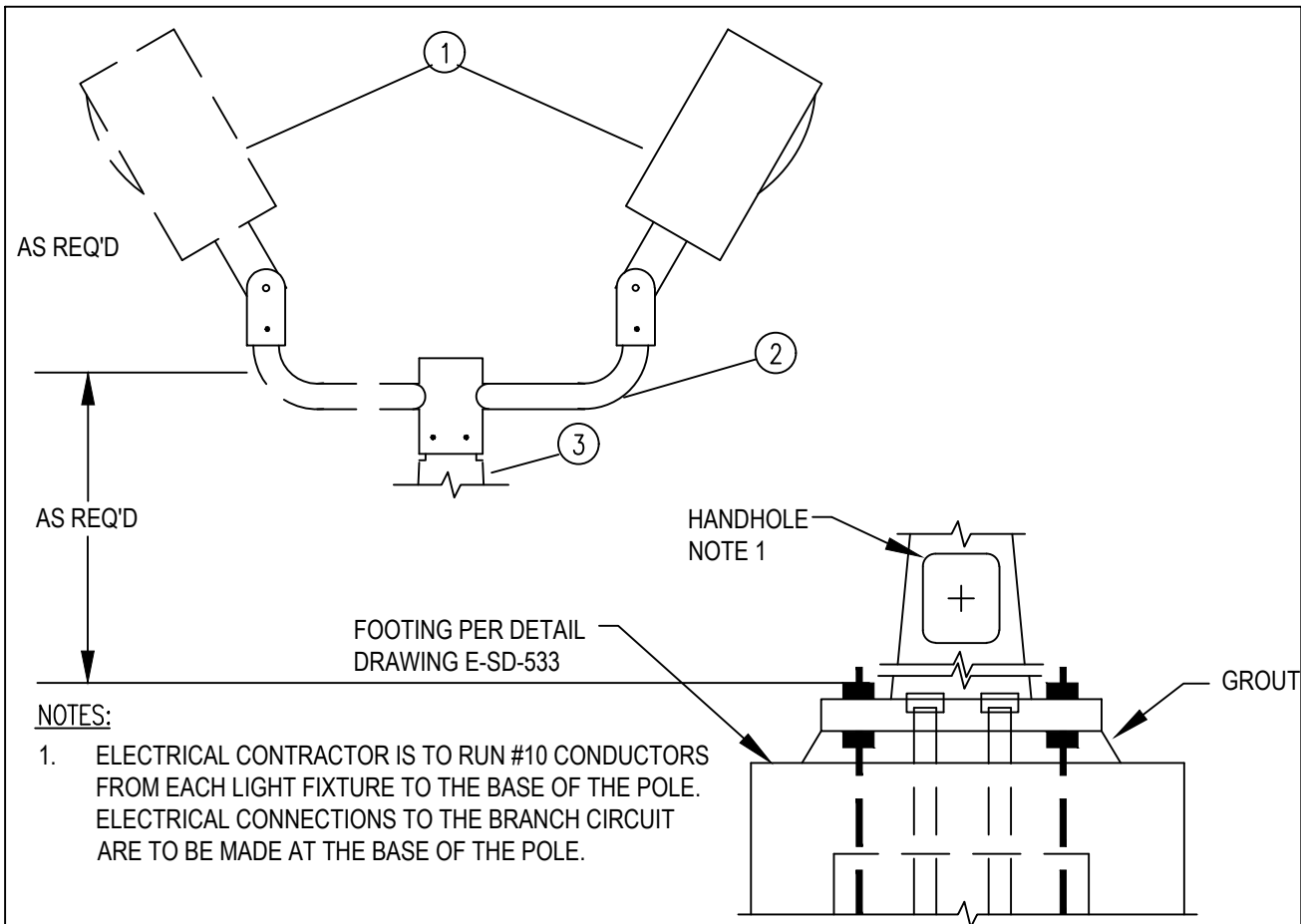
SHEET NUMBER:	REV. #
10-GEN-E-3002	0
SHEET 155 OF 223	





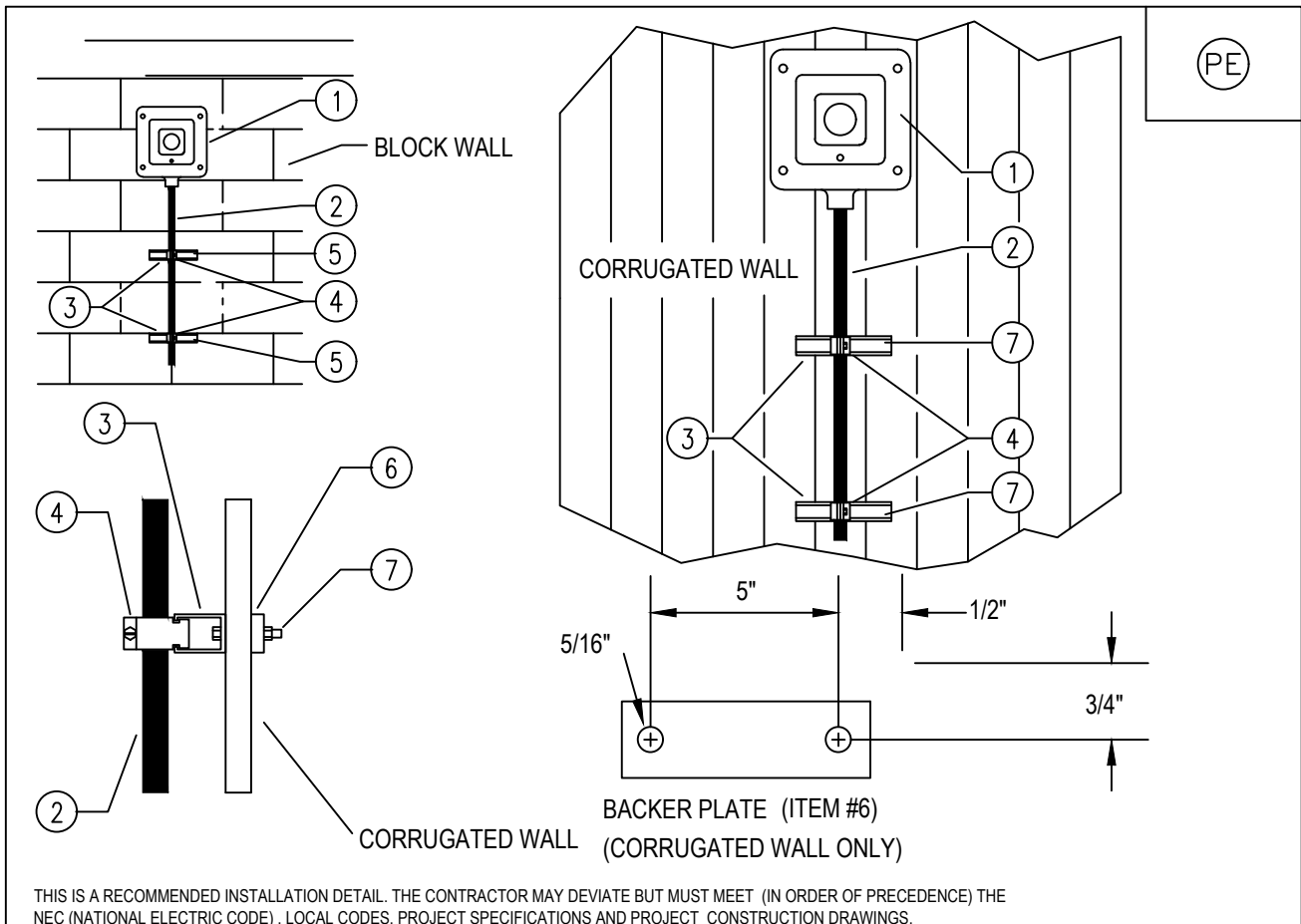
ITEM	DESCRIPTION	QTY	REMARKS
1	UNISTRUT	A/R	
2	UNISTRUT 1/4" SPRING NUT	A/R	
3	BOLT, 1/4" x 20 HEX HEAD	A/R	
4	FLAT WASHER, 1/4", (CADMIUM)	A/R	

20 TYPICAL LIGHT FIXTURE - CEILING MOUNT



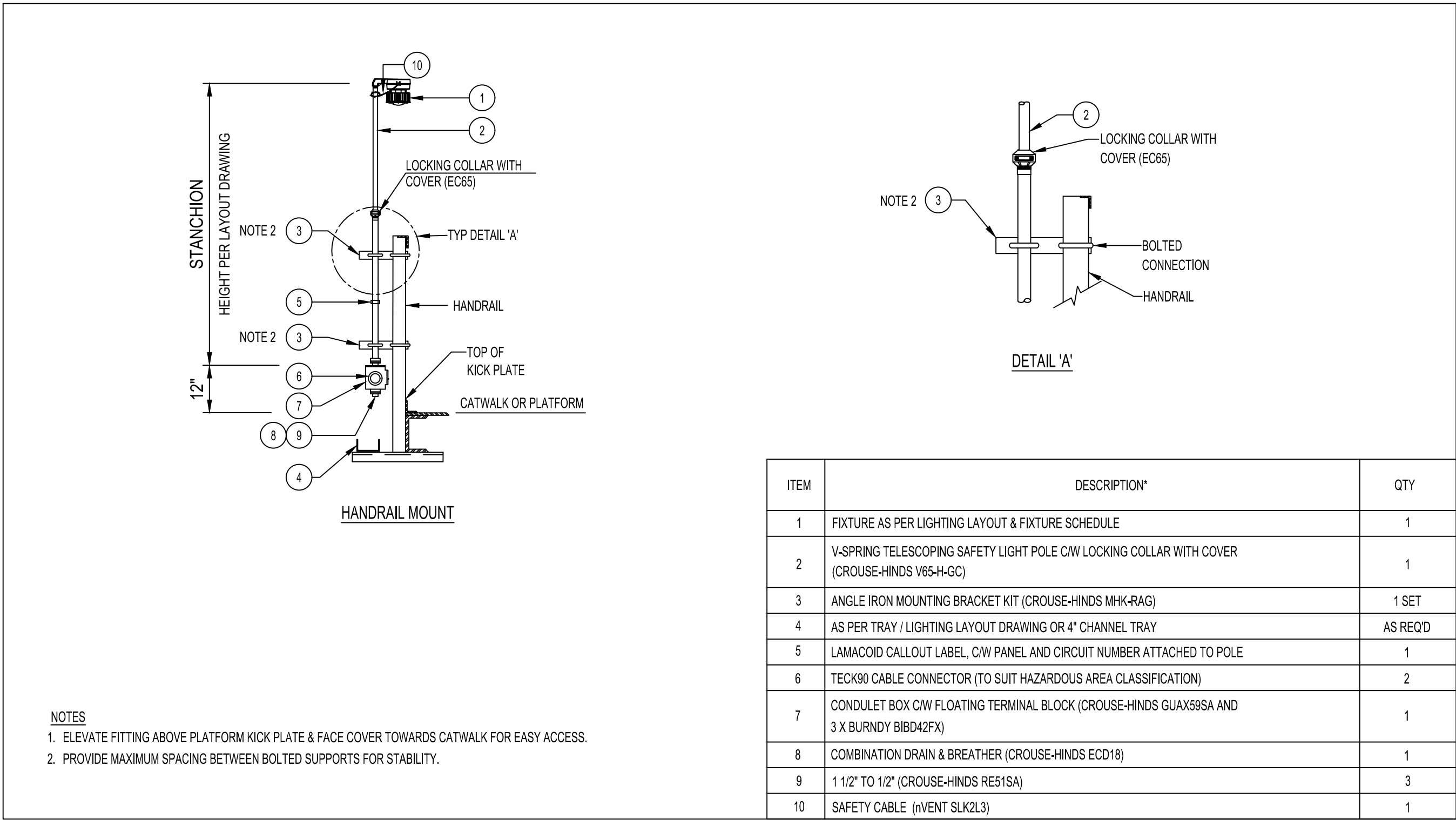
ITEM	DESCRIPTION	QTY	REMARKS
1	LIGHTS PER PLAN DRAWING	A/R	
2	TENNON MOUNTING BRACKET	A/R	
3	TAPERED STEEL POLE (LENGTH AS REQUIRED)	1	

21 TYPICAL MULTI UNIT FLOOD LIGHT POLE



ITEM	DESCRIPTION	QTY	REMARKS
1	PHOTOELECTRIC CONTROL PER PLAN DWG.	1	
2	3/4" RGS CONDUIT	A/R	
3	UNISTRUT, GALVANIZED	2	
4	UNISTRUT CONDUIT CLAMP	2	
5	1/4" CINCH ANCHOR FOR BLOCK	4	
6	1 1/2" X 1/4" X 6" LONG PLATE	2	SEE BACK PLATE DETAIL
7	1/4"-20 X 3" BOLT, WASHER, LOCK WASHER & NUT 316SS	4	

22 TYPICAL PHOTOELECTRIC CONTROL MOUNTING



ITEM	DESCRIPTION*	QTY
1	FIXTURE AS PER LIGHTING LAYOUT & FIXTURE SCHEDULE	1
2	V-SPRING TELESCOPING SAFETY LIGHT POLE C/W LOCKING COLLAR WITH COVER (CROUSE-HINDS V85-H-GC)	1
3	ANGLE IRON MOUNTING BRACKET KIT (CROUSE-HINDS MHK-RAG)	1 SET
4	AS PER TRAY / LIGHTING LAYOUT DRAWING OR 4" CHANNEL TRAY	AS REQ'D
5	LAMACOID CALLOUT LABEL, C/W PANEL AND CIRCUIT NUMBER ATTACHED TO POLE	1
6	TECK90 CABLE CONNECTOR (TO SUIT HAZARDOUS AREA CLASSIFICATION)	2
7	CONDULET BOX C/W FLOATING TERMINAL BLOCK (CROUSE-HINDS GUAX59SA AND 3 X BURNDY BBD42FX)	1
8	COMBINATION DRAIN & BREATHER (CROUSE-HINDS ECD18)	1
9	1 1/2" TO 1/2" (CROUSE-HINDS RE51SA)	3
10	SAFETY CABLE (nVENT SLK2L3)	1

23 TYPICAL LIGHT FIXTURE - TELESCOPING POLE MOUNT

NOTE:  
1. THIS IS A RECOMMENDED INSTALLATION DETAIL. THE CONTRACTOR MAY DEVIATE BUT MUST MEET (IN ORDER OF PRECEDENCE) THE NEC (NATION ELECTRIC CODE), LOCAL CODES, PROJECT SPECIFICATIONS AND PROJECT CONSTRUCTION DRAWINGS.



4221 BALLOON PARK RD NE  
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PROJECT:  
KAYENTA WWTP  
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NAVAJO TRIBAL  
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2151700032

REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED BY:	RSB
DRAWN BY:	RSB
CHECKED BY:	JE
DATE:	09NOV2022

SHEET TITLE:  
ELECTRICAL  
TYPICAL DETAILS

SHEET NUMBER:	REV. #
10-GEN-E-3003	0
SHEET 156 OF 223	