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PROJECT DIRECTORY

OWNER
CITY OF SAN BENITO TEXAS

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SOUTH SIDE PARK

SAN BENITO, TEXAS



CITY OF SAN BENITO ELECTED OFFICIALS

BENJAMIN "BEN" GOMEZ

MAYOR

CAROL LYNN SANCHEZ

MAYOR PRO TEM

ANTONIO GONZALES

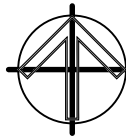
COMMISSIONER PLACE 1

RENE VILLAFRANCO

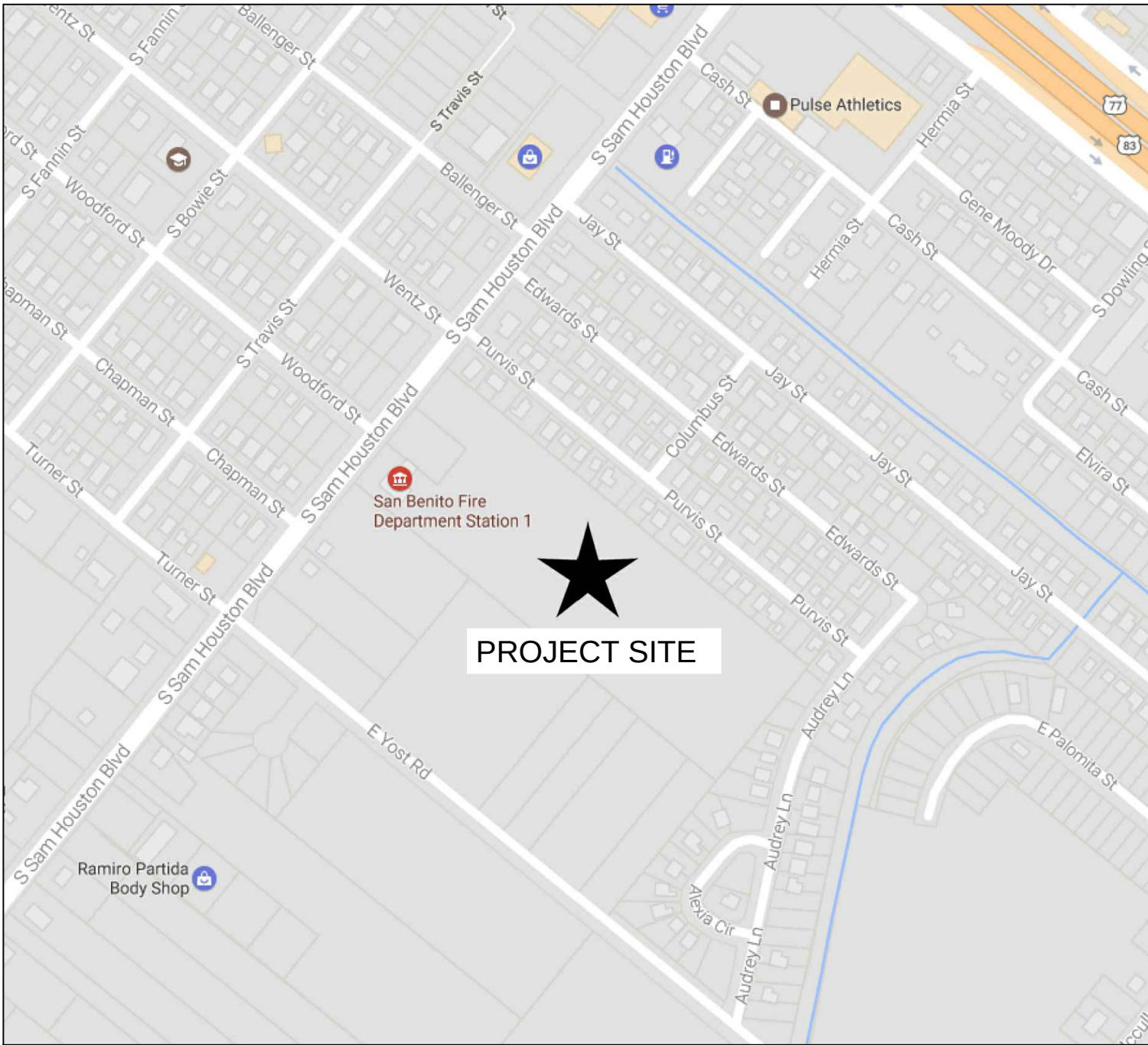
COMMISSIONER PLACE 2

RICARDO "RICK" GUERRA

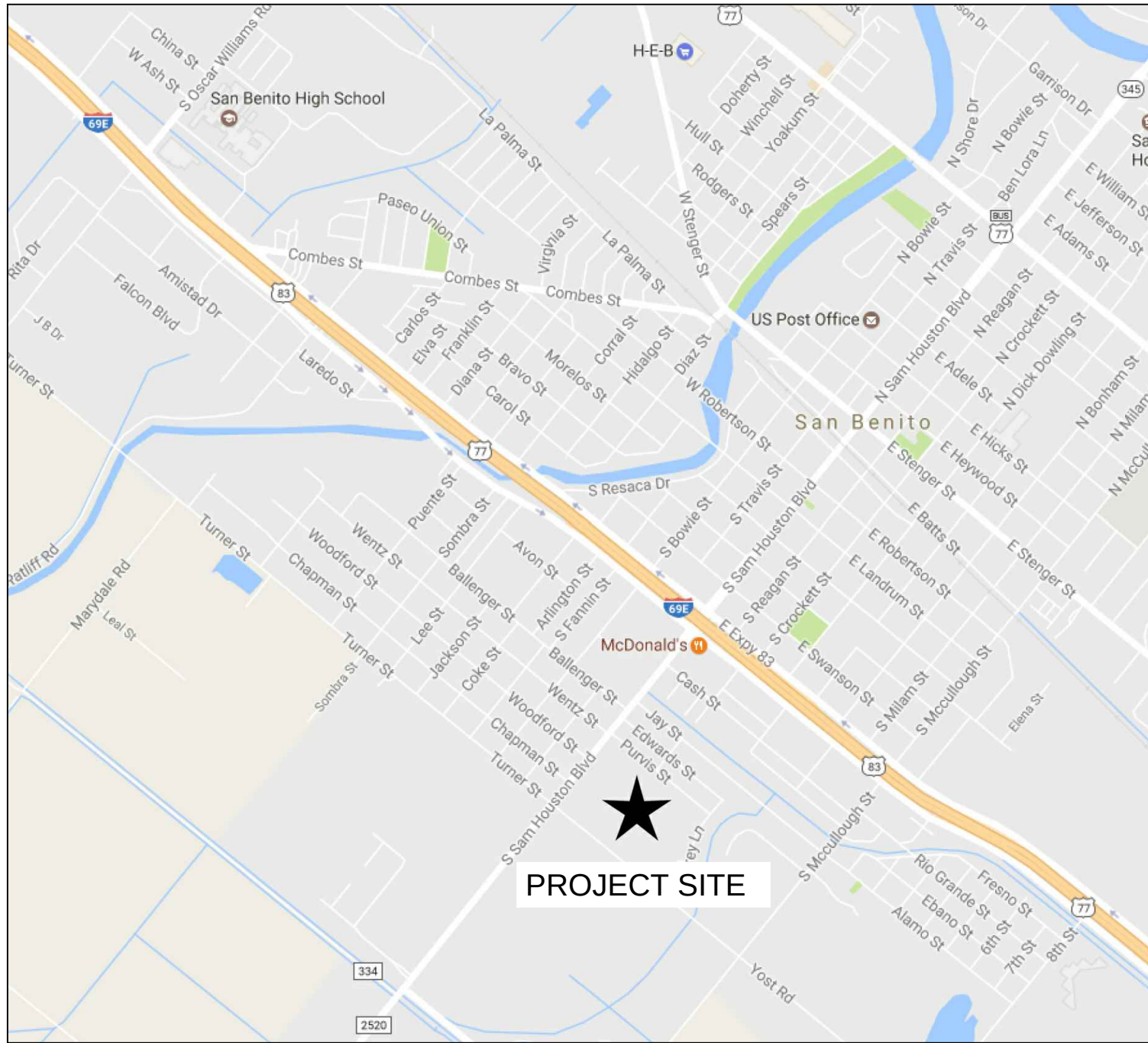
COMMISSIONER PLACE 3



LOCATION MAP



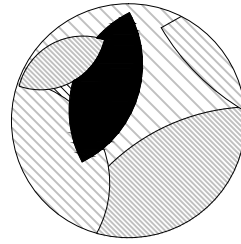
VICINITY MAP



SET No.: _____

GENERAL NOTES

- CONTRACTOR TO FURNISH ALL LABOR & MATERIALS NECESSARY TO COMPLETE INSTALLATION AS DETAILED. EACH CONTRACTOR SHALL RESPECT THE WORK OF OTHER CONTRACTORS & IS RESPONSIBLE FOR & LIABLE TO REPAIR OR REPLACE ANY DAMAGE CAUSED BY HIS WORK.
- THE CONTRACTOR IS TO COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, RULES, REGULATIONS, ORDERS & OTHER LEGAL REQUIREMENTS OF THE ADMINISTRATIVE AUTHORITIES HAVING JURISDICTION.
- ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH FEDERAL, STATE & LOCAL CODES & ANY OTHER REGULATIONS HAVING JURISDICTION OVER SAID PROJECT. THE CONTRACTOR SHALL PROTECT & INDEMNIFY THE OWNER AGAINST ANY CLAIM OR LIABILITY ARISING FROM VIOLATION OF ANY SUCH CODE OR REGULATION.
- THE CONTRACTOR SHALL OBTAIN & PAY FOR ALL REQUIRED PERMITS, INSPECTIONS & APPROVALS.
- ALL REMOVED MATERIAL & MISCELLANEOUS DEBRIS MUST BE REMOVED FROM THE SITE. THIS MATERIAL SHALL NOT BE USED FOR INFILL MATERIAL. REMOVE ALL FLAMMABLE OR TOXIC SCRAPS DAILY & DEBRIS ON A REGULAR BASIS. MAINTAIN ALL AREAS CLEAN TO THE SATISFACTION OF THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE THE ON-SITE CONDITIONS & PERFORM ALL NECESSARY WORK TO COMPLETE THE PROJECT. IF EXISTING CONDITIONS DEVIATE SIGNIFICANTLY FROM THESE DRAWINGS NOTIFY THE LANDSCAPE ARCHITECT FOR FURTHER DIRECTION.
- THE CONTRACTOR SHALL VISIT THE SITE & EXAMINE FOR ONESELF ALL EXISTING CONDITIONS & LIMITATIONS WHICH AFFECT THE CONTRACT. THE CONTRACTOR SHALL CAREFULLY EXAMINE ALL CONTRACT DOCUMENTS, TITLES & SUBDIVISIONS IN THESE DOCUMENTS ARE FOR CONVENIENCE, & NO REAL OR ALLEGED ERRORS IN ARRANGEMENT OF MATTER SHALL BE REASON FOR OMISSION OR DUPLICATION BY ANY CONTRACTOR.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE A THOROUGH EXAMINATION OF THE PLANS & DETAILS & VERIFY ALL DIMENSIONS & CONDITIONS THEREIN, ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER FOR REVIEW.
- CONTRACTOR SHALL NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE LANDSCAPE ARCHITECT PRIOR TO CONTINUING CONSTRUCTION OF AREA IN QUESTION.
- THE DRAWINGS & OTHER DOCUMENTS PREPARED FOR THIS PROJECT ARE INSTRUMENTS FOR CONSTRUCTION TO BE USED SOLELY WITH RESPECT TO THIS PROJECT UNLESS OTHERWISE PROVIDED. THE LANDSCAPE ARCHITECT SHALL BE DEEMED THE AUTHOR OF THESE DOCUMENTS AND SHALL RETAIN ALL COMMON LAW STATUTORY & OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT. THESE DRAWINGS SHALL NOT BE REPRODUCED OR REUSED EXCEPT BY WRITTEN AGREEMENT OF THE OWNER.
- WORKMANSHIP SHALL BE OF THE HIGHEST TYPE. ALL INSTALLATIONS & APPLICATIONS SHALL CONFORM TO THE MANUFACTURERS' SPECIFICATIONS.
- THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL SUB- CONTRACTORS WHETHER THEY RECEIVE THEIR CONTRACT FROM THE CONTRACTOR OR OWNER. THE CONTRACTOR'S INSTRUCTIONS SHALL BE FOLLOWED BY ALL TRADES.
- ALL MATERIALS & WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE UNLESS SPECIFIED OTHERWISE FOR A LONGER PERIOD OF TIME.
- THE CONTRACTOR SHALL SAFELY SHORE, BRACE, &/OR SUPPORT ALL WORK AS REQUIRED. THIS WORK SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR & NO ACT, DIRECTION, OR REVIEW OF ANY SYSTEM OR METHOD BY THE LANDSCAPE ARCHITECT SHALL RELIEVE THE CONTRACTOR OF THIS RESPONSIBILITY.
- EACH CONTRACTOR SHALL REMOVE ALL TRASH & DEBRIS FROM THE SITE AND/OR WITHIN THE BUILDING (AREA SHOULD BE SWEEP CLEAN). IF TRASH & DEBRIS ARE NOT REMOVED, THE OWNER MAY, AT HIS OPTION, PAY FOR ITS REMOVAL & BACK CHARGE THE CONTRACTOR.
- THE CONTRACTOR IS TO PROVIDE ALL MEANS TO SECURE & PROTECT CONSTRUCTION AREAS FROM PUBLIC ACCESS.
- CONTRACTOR SHALL PROVIDE BACKING, BRACING, AND BLOCKING FOR EQUIPMENT SUPPORT AT THE FOLLOWING AREAS: (CONTRACTOR TO COORDINATE WITH RESPECTIVE TRADES FOR EXACT LOCATIONS).
 - SHELVING
 - LAVATORIES
 - CABINETS
 - TOILET ACCESSORIES
 - CLOSET ACCESSORIES
- CONTRACTOR IS TO MAINTAIN SAFE AND UNINTERRUPTED USE OF MECHANICAL, ELECTRICAL, PLUMBING, I.T. AND PHONE SYSTEMS IN EXISTING AREAS PRESENTLY OCCUPIED.
- CONTRACTOR IS TO EXERCISE SPECIAL CARE IN THE HANDLING OF MATERIALS AND EQUIPMENT TO AVOID INCONVENIENCE AND ANNOYANCE OF THE OWNER MANAGEMENT AND OTHER TENANTS.
- CONTRACTOR SHALL REPAIR, AT HIS OWN EXPENSE, ANY DAMAGE TO EXISTING AREAS NOT DESIGNATED FOR REFURBISHMENT.
- BEFORE STARTING WORK, CONTRACTOR IS TO FAMILIARIZE HIMSELF WITH ALL APPLICABLE SECTIONS OF THE TEXAS ACCESSIBILITY STANDARDS HANDBOOK.
- CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE ALL UTILITY SERVICING THE SITE. ALERT PROJECT OWNER OF ANY DISCREPANCIES WITH UTILITY SIZE & SERVICE LOCATIONS AS IT PERTAINS TO THESE PLANS.
- ALL IMPROVEMENTS SHALL BE CONSTRUCTED TO COMPLY WITH THE TEXAS ARCHITECTURAL BARRIERS ACT AND THE ARCHITECTURAL BARRIERS ACT OF 1968
- CONTRACTORS SHOULD BE MADE AWARE OF THE POTENTIAL TO ENCOUNTER STATE-LISTED FROGS IN THE PROJECT AREA AND INSTRUCTED TO AVOID NEGATIVELY IMPACTING THEM IF ENCOUNTERED.
- BUILDING PERMITS & METERS PROVIDED AT NO COST TO THE CONTRACTOR.



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SOUTH SIDE PARK - B
SAN BENITO, TX

PROJECT:

DATE	DESCRIPTION	ISSUED FOR CONSTRUCTION	REVISION #1
10-04-2018			
10-31-2018			



DATE: 10-04-2018

COVER SHEET

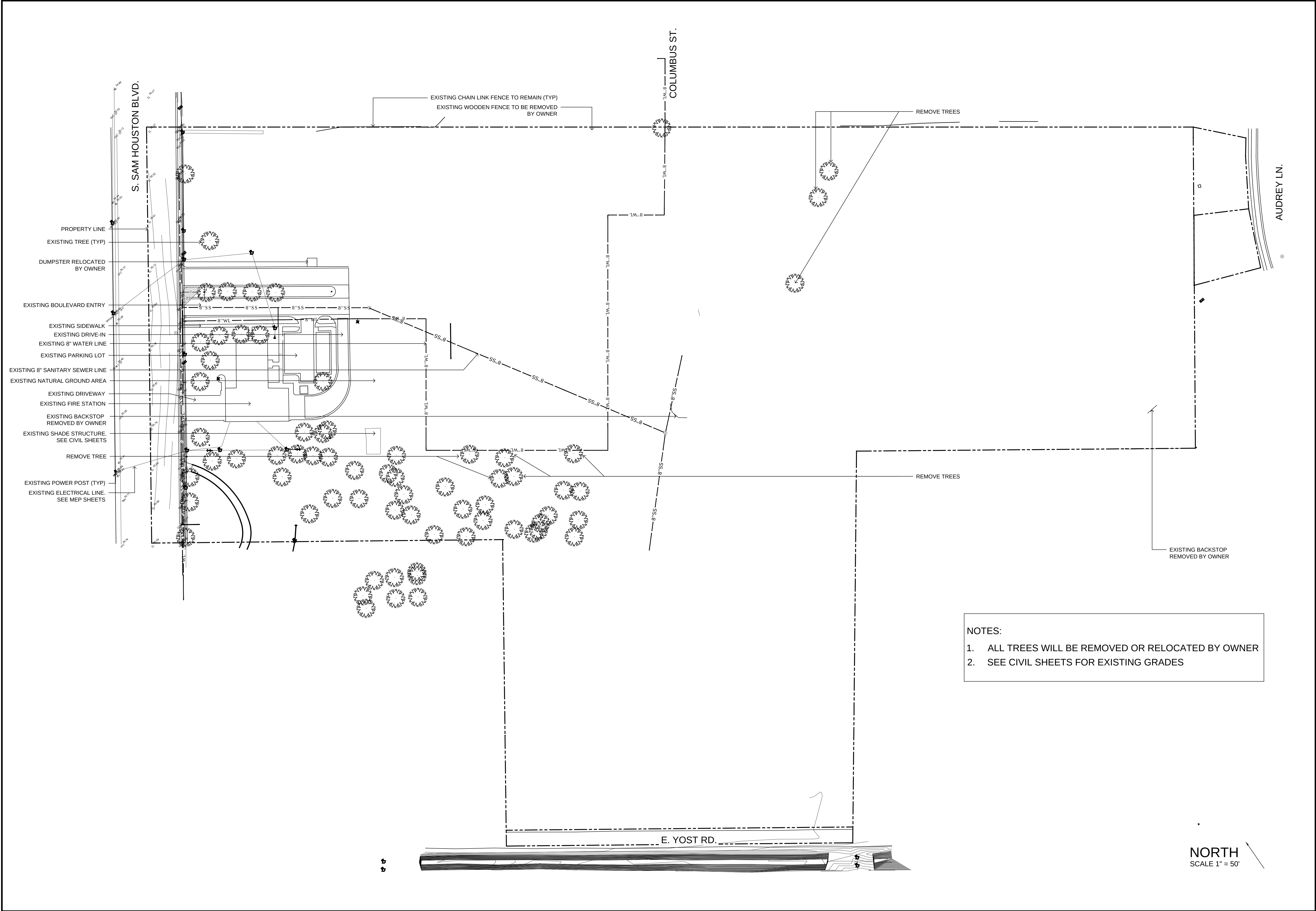
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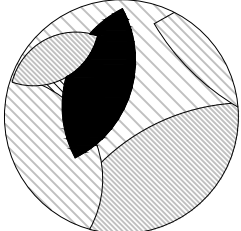
These Drawings and Specifications are to be an instrument of service and shall remain the property of the Landscape Architect. They are not to be used on other projects or extensions to this project except by agreement in writing with the Landscape Architect. The Landscape Architect is not responsible for construction means, methods, sequences or procedures or for safety precautions and programs in connection with the project.

PROJECT NUMBER:
A17-02

SHEET NUMBER:

L0.0





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PROJECT:

SOUTH SIDE PARK - B
SAN BENITO, TX

DATE	DESCRIPTION
10-04-2018	ISSUED FOR CONSTRUCTION



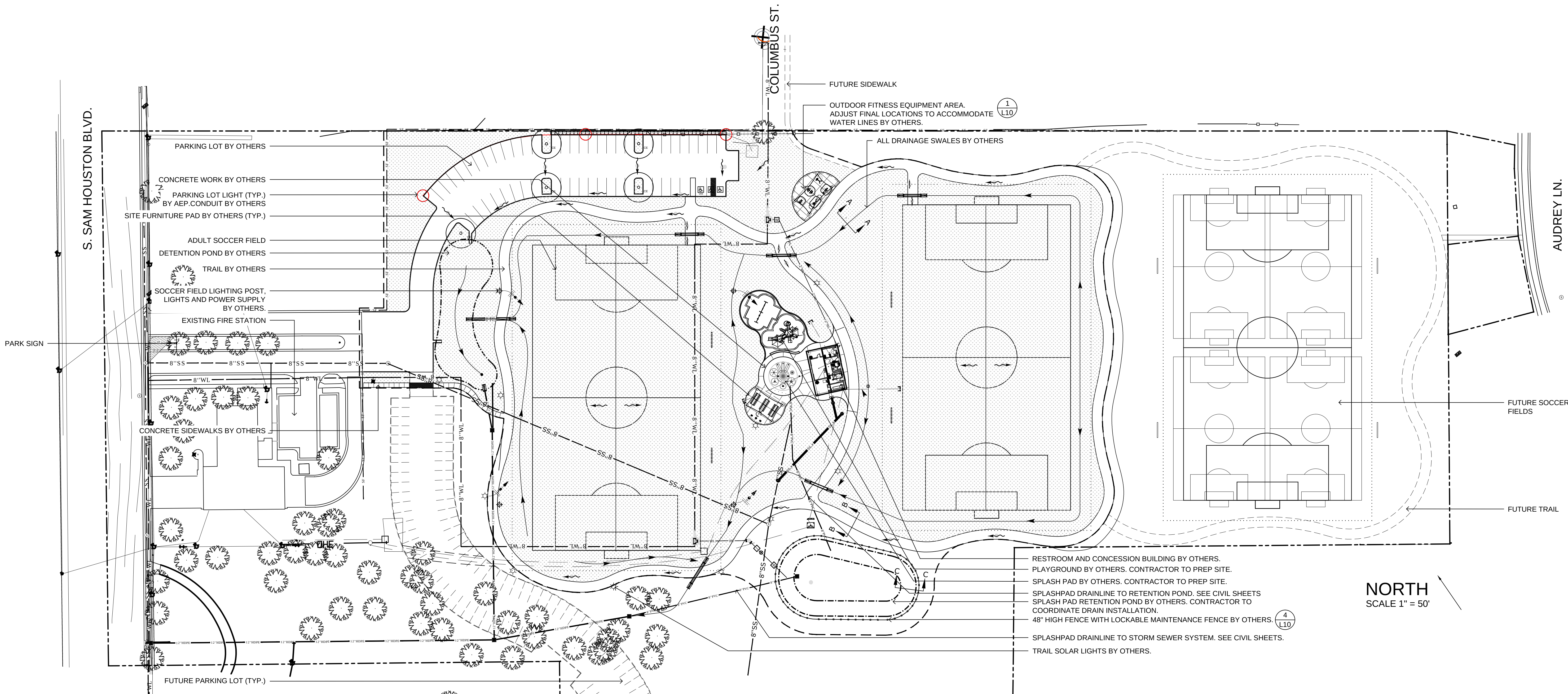
Andrew T. Heffner
DATE: 10-04-2018

SHEET TITLE:

EXISTING CONDITIONS
& REMOVALS

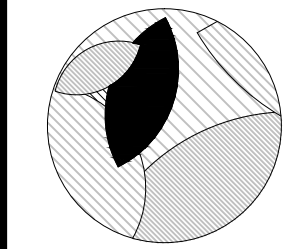
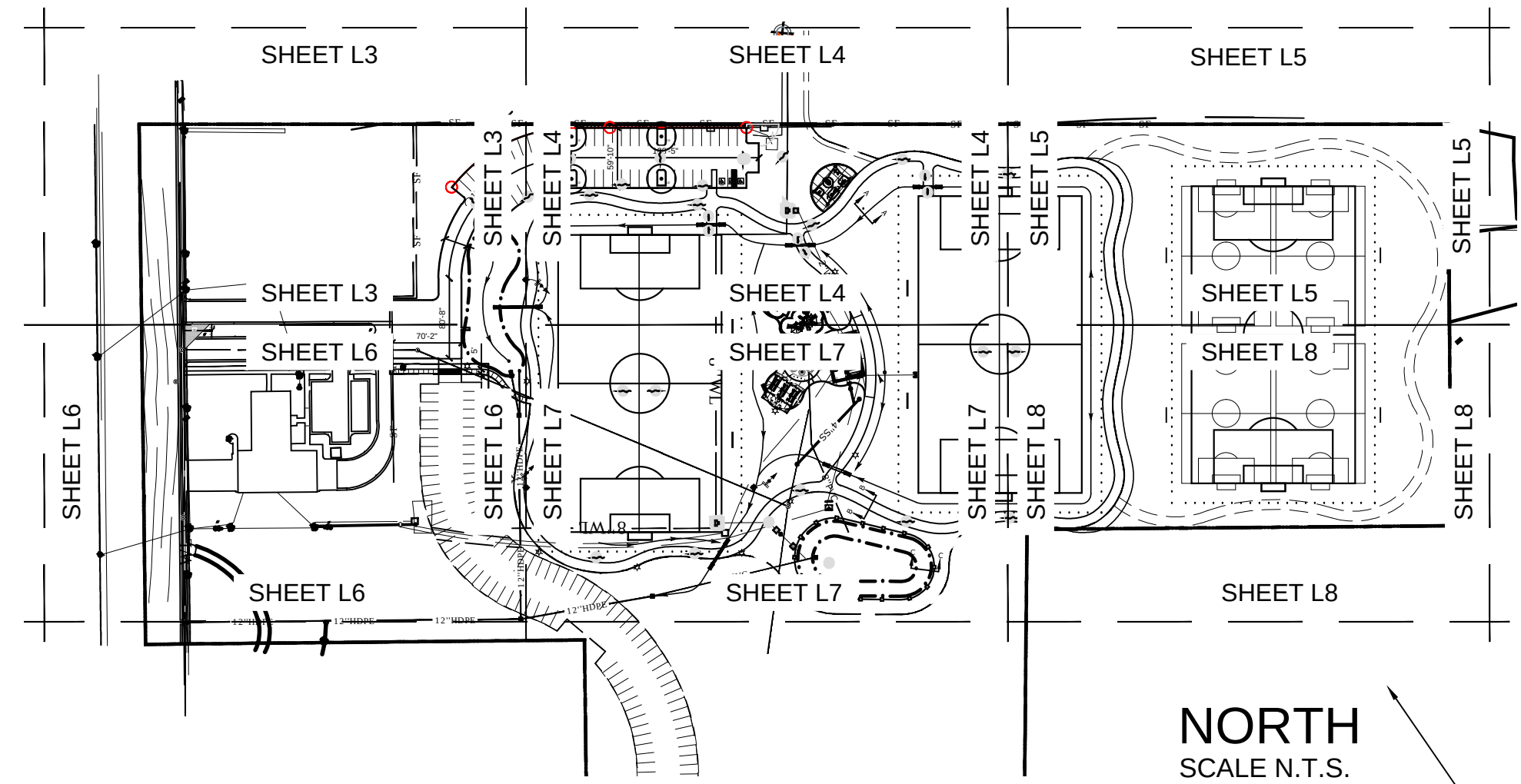
PROJECT NUMBER:
A17-02

SHEET NUMBER:
L1



SITE EQUIPMENT SCHEDULE (ALL EQUIPMENT FURNISHED AND INSTALLED BY OTHERS)					
ITEM	MANUFACTURER	MODEL NUMBER	COLOR	APPROX. QTY.	COMMENTS
SOCCER BENCH	SUPERIOR SITE AMENITIES	B15ALS	-	4	15' LONG, ONE CLEAR ANODIZED SEAT PLANK, IN-GROUND MOUNT
8' RECTANGULAR ADA TABLE	SUPERIOR SITE AMENITIES	T8RC	-	1	
6' RECTANGULAR TABLE	SUPERIOR SITE AMENITIES	T6RC	-	2	2 ATTACHED 6' SEATS, ROUNDED CORNERS, 3/4" #9 EXPANDED METAL, TWO 2 3/8" LEGS
LITTER RECEPTACLE	SUPERIOR SITE AMENITIES	TR 32	-	2	3/4" #9 EXPANDED METAL
		FLATTOP32	-	2	FLAT TOP 8" OPENING
		TR-SM	-	2	SURFACE MOUNT ASSEMBLY
		LINER 32	-	2	RIGID PLASTIC LINER
GRILL	SUPERIOR SITE AMENITIES	GPS20		3	CAMPFIRE GRILL, 20" ADJUSTABLE COOKING GRATE, 2 7/8" POST IN-GROUND MOUNT
SOCCER GOALS			WHITE	4 GOALS TOTAL	
SOLAR LIGHTING	TBD	TBD	TBD	10	
SPLASH PAD	KRAFTSMAN	N/A	N/A	1	SITE PREPARATION BY CONTRACTOR
EXERCISE EQUIPMENT	GREENFIELDS	ACCESSIBLE CHEST PRESS GR2005-1-48W		1	FUTURE
		SEATED LEG EXTENSION GR2005-1-88-SM		1	
		4 PERSON PENDULUM ABS & DIPS STATION GR2005-1-22	GREEN AND TAN	1	
		ACCESSIBLE VERTICAL PRESS GR2005-1-47-W		1	
		ROWER GR2005-1-91		1	
RETENTION POND FENCING	IFENCE	TBD	BLACK		INCLUDE 4' WIDE GATE WITH LOCK
PLAYGROUND EQUIPMENT	PARK PLACE	#714-S88J KIDS CHOICE PLAYSCAPE		1	SITE PREPARATION BY CONTRACTOR
		#718-S63 ARCH FRAME SWING SET		1	
		#2840 BELT SEAT WITH CHAIR	TBD	2	
		#2990 TOT BUCKET WITH CHAIR		2	
NOTES - ALL HARDWARE REQUIRED FOR SITE FURNITURE SHALL BE PROVIDED BY THE CONTRACTOR. ALL EQUIPMENT SHALL BE CONSIDERED "OR APPROVED EQUAL."					

LANDSCAPE MATERIAL SCHEDULE				
SYMBOL	BOTANICAL NAME	COMMON NAME	APPROX. QTY.	COMMENTS
	HAMELIA PATENS 'COMPACTA'	DWARF HAMELIA	46	1 GALLON
	ULMUS CRASSIFOLIA	CEDAR ELM	5	2" CAL B&B PROVIDED AND INSTALLED BY OWNER
	LANDSCAPE BED EDGING		187 - LF	4" BLACK ALUMINUM EDGING
	HYDROMULCH		209,819 - SF	BERMUDA GRASS
	WOOD MULCH		596 - SF	DOUBLE SHREDDDED CEDAR, 3" LAYER OF CHIPS WITHOUT A LAYER OF LANDSCAPE FABRIC. INSTALL PEREMERGENT TO WOODMULCH.



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SOUTH SIDE PARK - B
SAN BENITO, TX

PROJECT:

DESCRIPTION

ISSUED FOR CONSTRUCTION

DATE
10-04-2018



Andrew T. Heffner

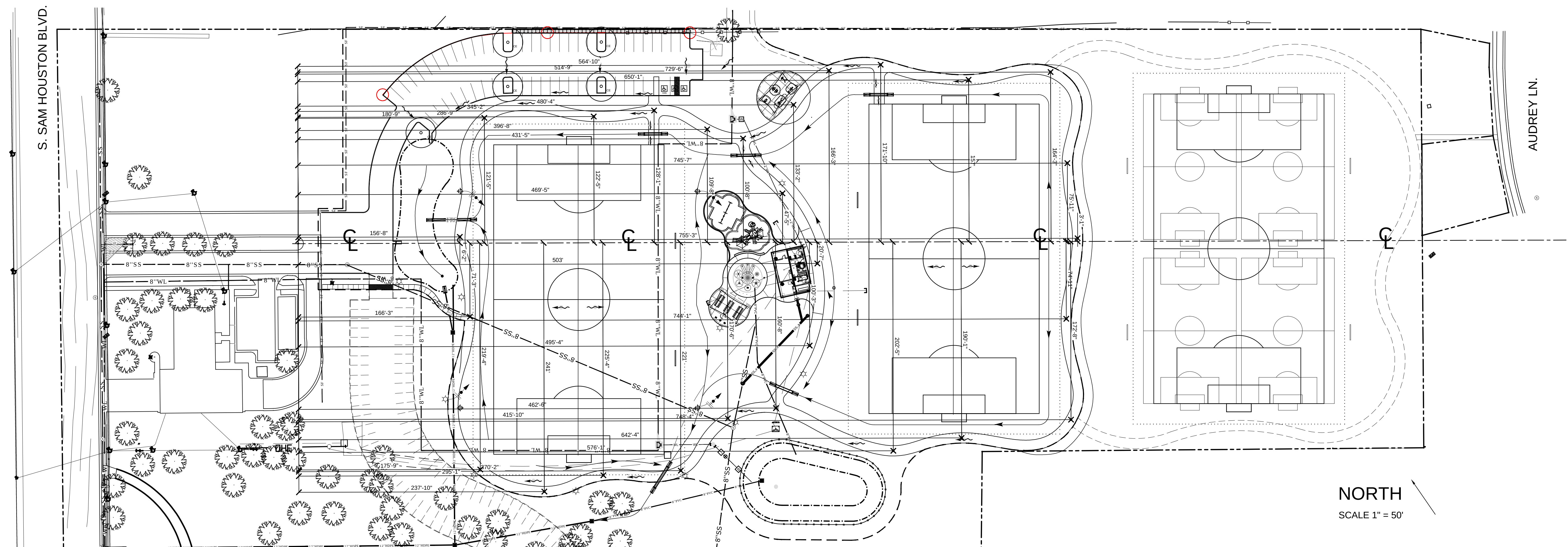
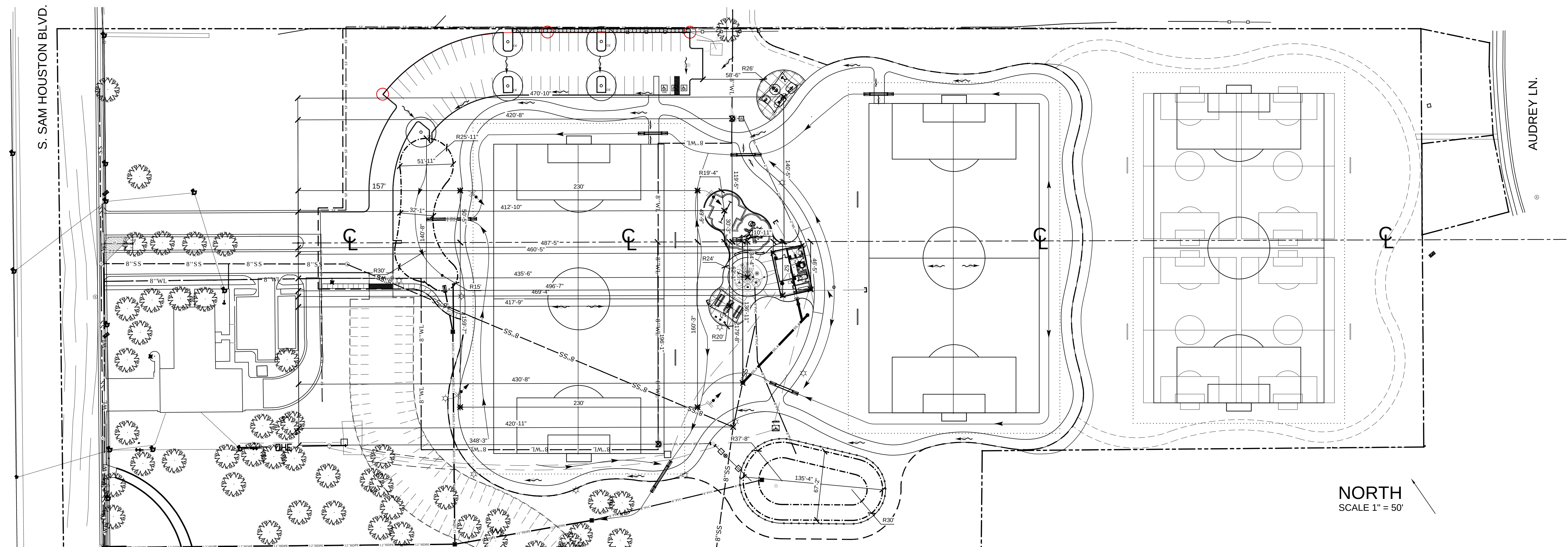
DATE: 10-04-2018

SHEET TITLE:
OVERALL SITE
IMPROVEMENT PLAN

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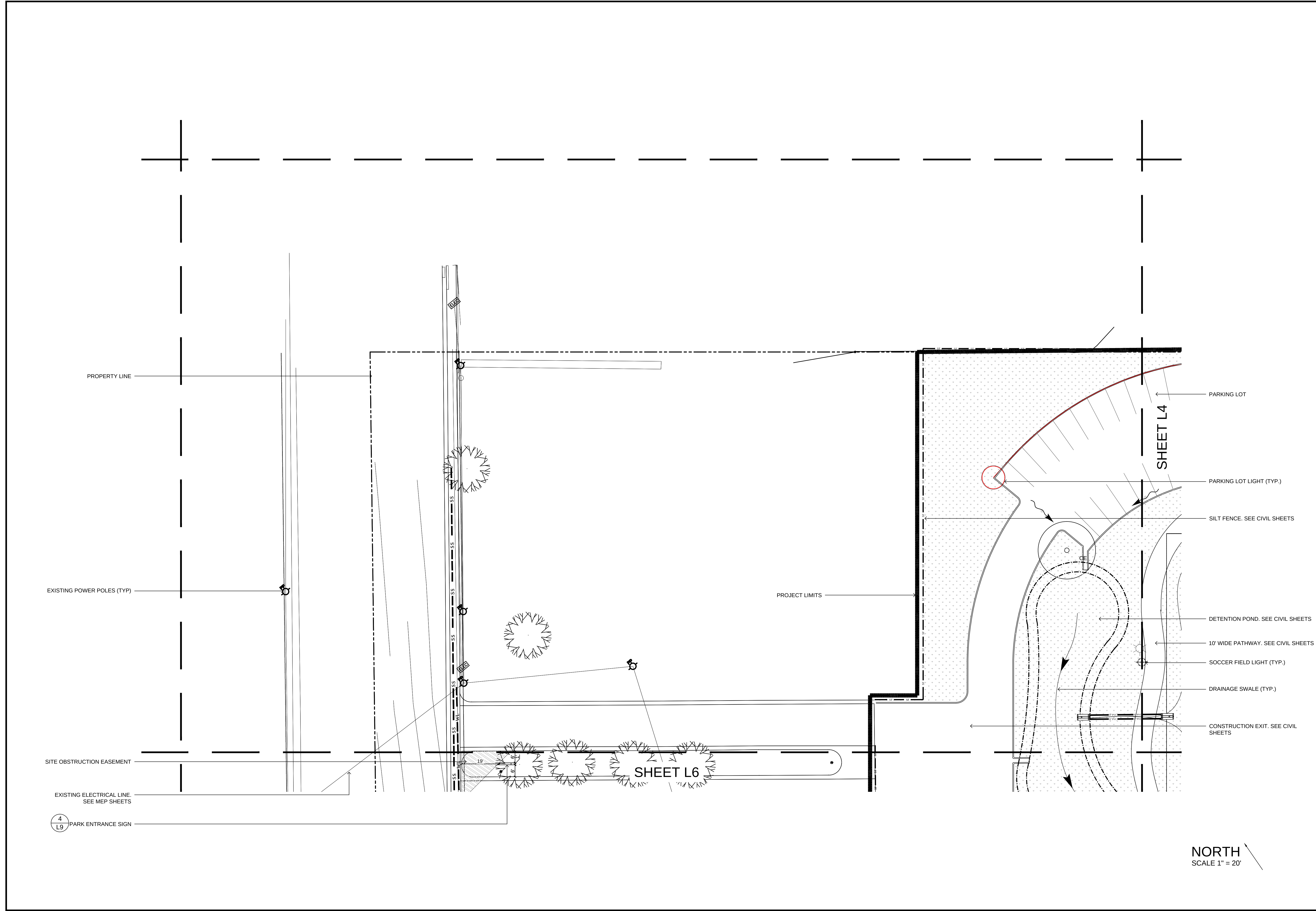
PROJECT NUMBER:
A17-02

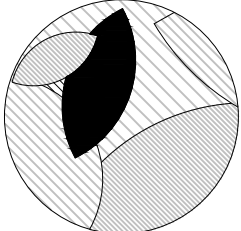
SHEET NUMBER:
L2



ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD. ALL DISCREPANCIES SHALL BE EMAILED TO THE LANDSCAPE ARCHITECT IMMEDIATELY. COORDINATE DIMENSIONS BETWEEN ALL OTHER SHEETS.

DATE	DESCRIPTION
10-04-2018	ISSUED FOR CONSTRUCTION
10-31-2018	REVISION #1





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PROJECT:

SOUTH SIDE PARK - B
SAN BENITO, TX

DATE	DESCRIPTION
10-04-2018	ISSUED FOR CONSTRUCTION



Andrew T. Heffner
DATE: 10-04-2018

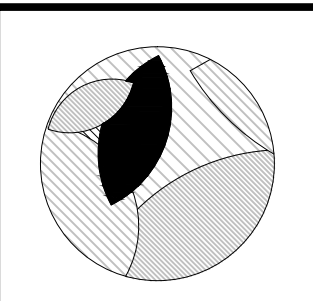
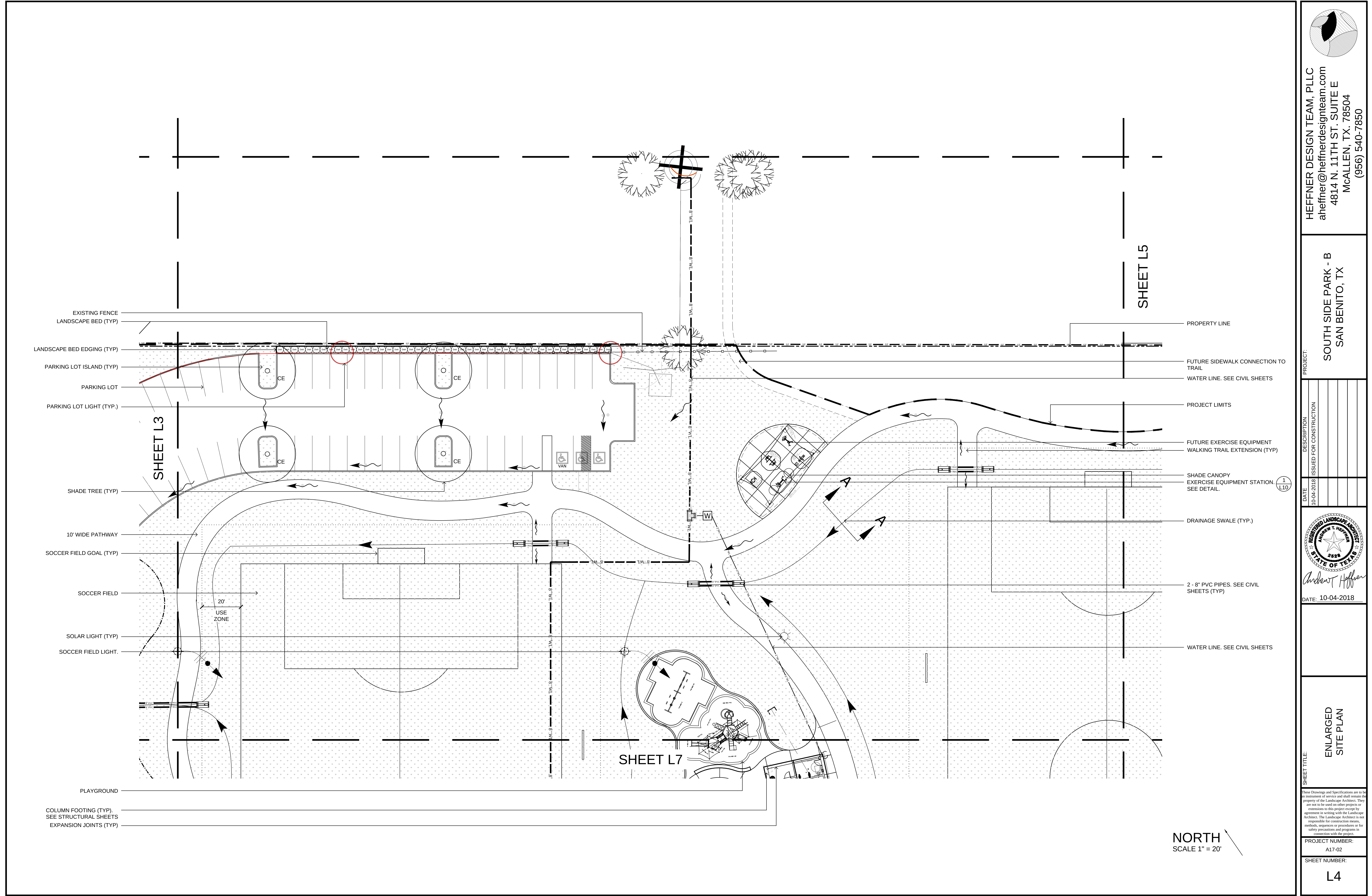
SHEET TITLE:

ENLARGED
SITE PLAN

PROJECT NUMBER:
A17-02

SHEET NUMBER:
L3

These Drawings and Specifications are to be an instrument of service and shall remain the property of the Landscape Architect. They are not to be used on other projects or extensions to this project except by agreement in writing with the Landscape Architect. The Landscape Architect is not responsible for construction means, methods, sequences or procedures or for safety precautions and programs in connection with the project.



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PROJECT:
SOUTH SIDE PARK - B
SAN BENITO, TX

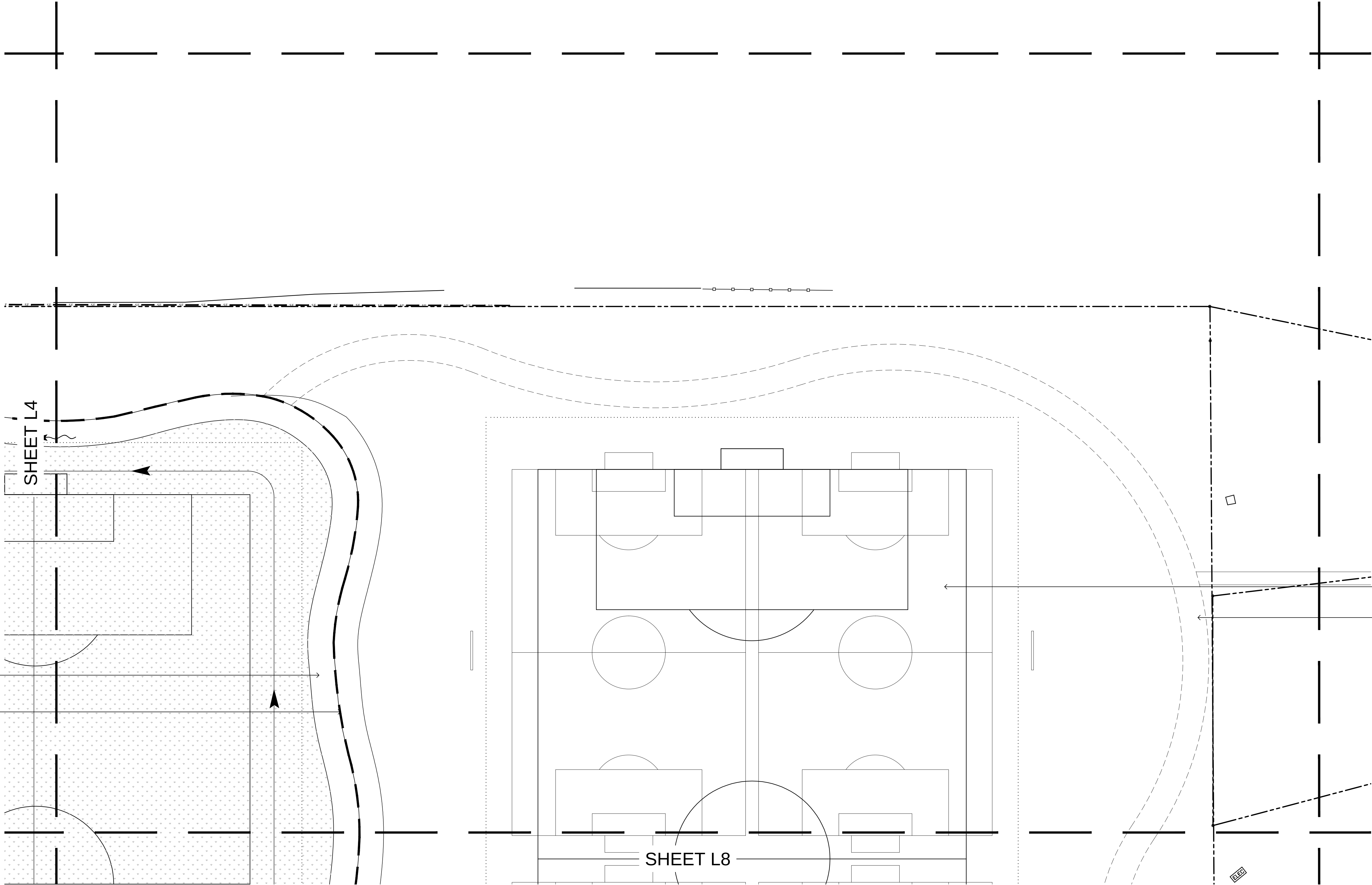
DATE	DESCRIPTION
10-04-2018	ISSUED FOR CONSTRUCTION

REGISTERED LANDSCAPE ARCHITECT
ANDREW T. HEFFNER
2528
STATE OF TEXAS
Andrew T. Heffner
DATE: 10-04-2018

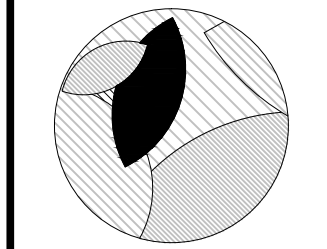
SHEET TITLE:
ENLARGED
SITE PLAN

PROJECT NUMBER:
A17-02
SHEET NUMBER:
L4

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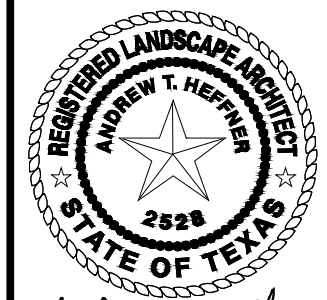
NORTH
SCALE 1" = 20'



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PROJECT:
SOUTH SIDE PARK - B
SAN BENITO, TX

DATE	DESCRIPTION
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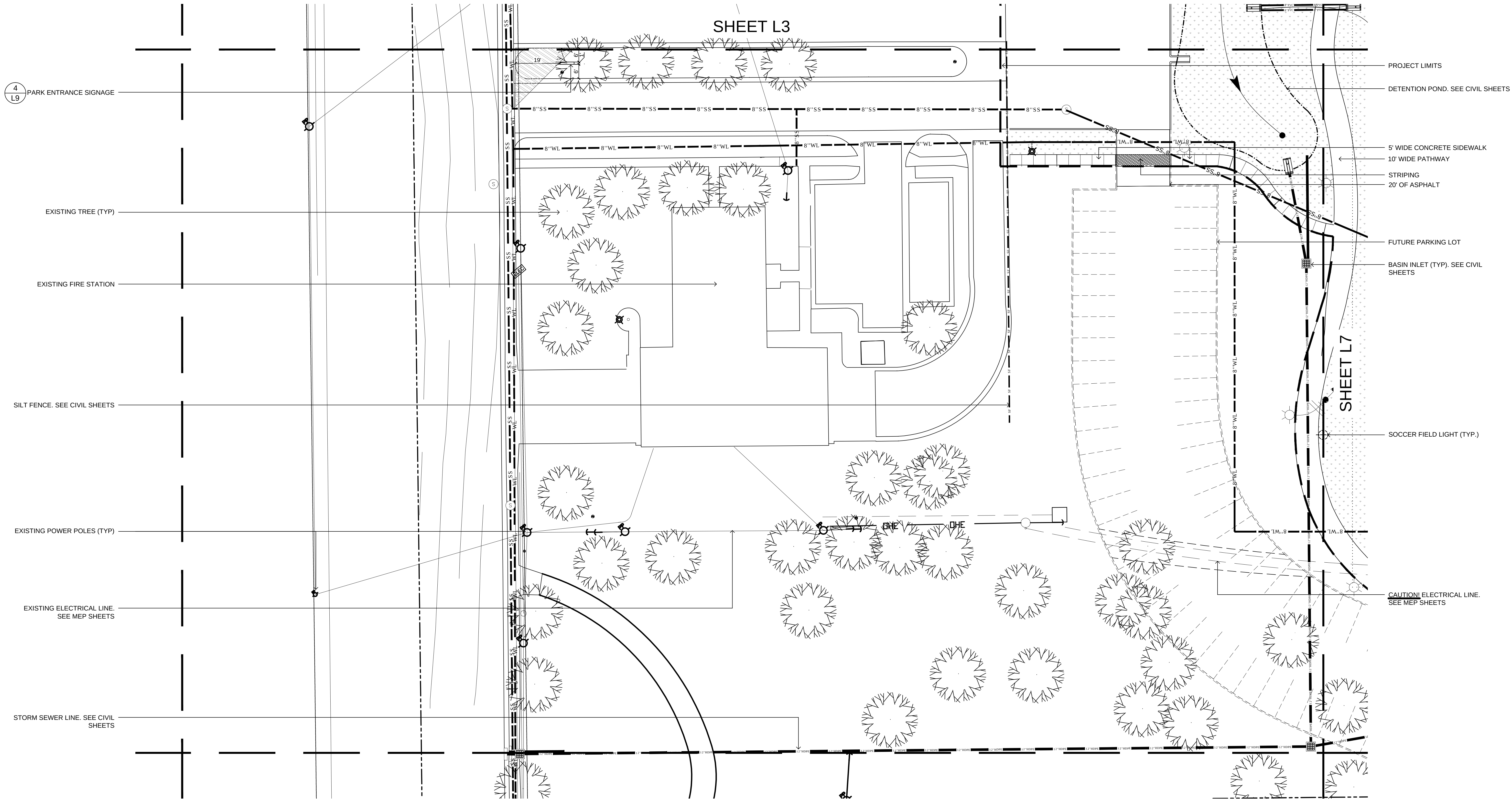
Andrew T. Heffner
DATE: 10-04-2018

SHEET TITLE:
ENLARGED
SITE PLAN

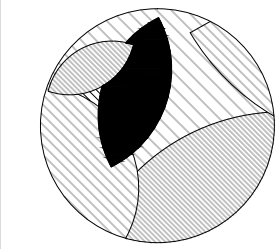
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PROJECT NUMBER:
A17-02

SHEET NUMBER:
L5



NORTH
SCALE 1" = 20'



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SOUTH SIDE PARK - B
SAN BENITO, TX

PROJECT:

DATE	DESCRIPTION
10-04-2018	ISSUED FOR CONSTRUCTION



Andrew T. Heffner

DATE: 10-04-2018

ENLARGED
SITE PLAN

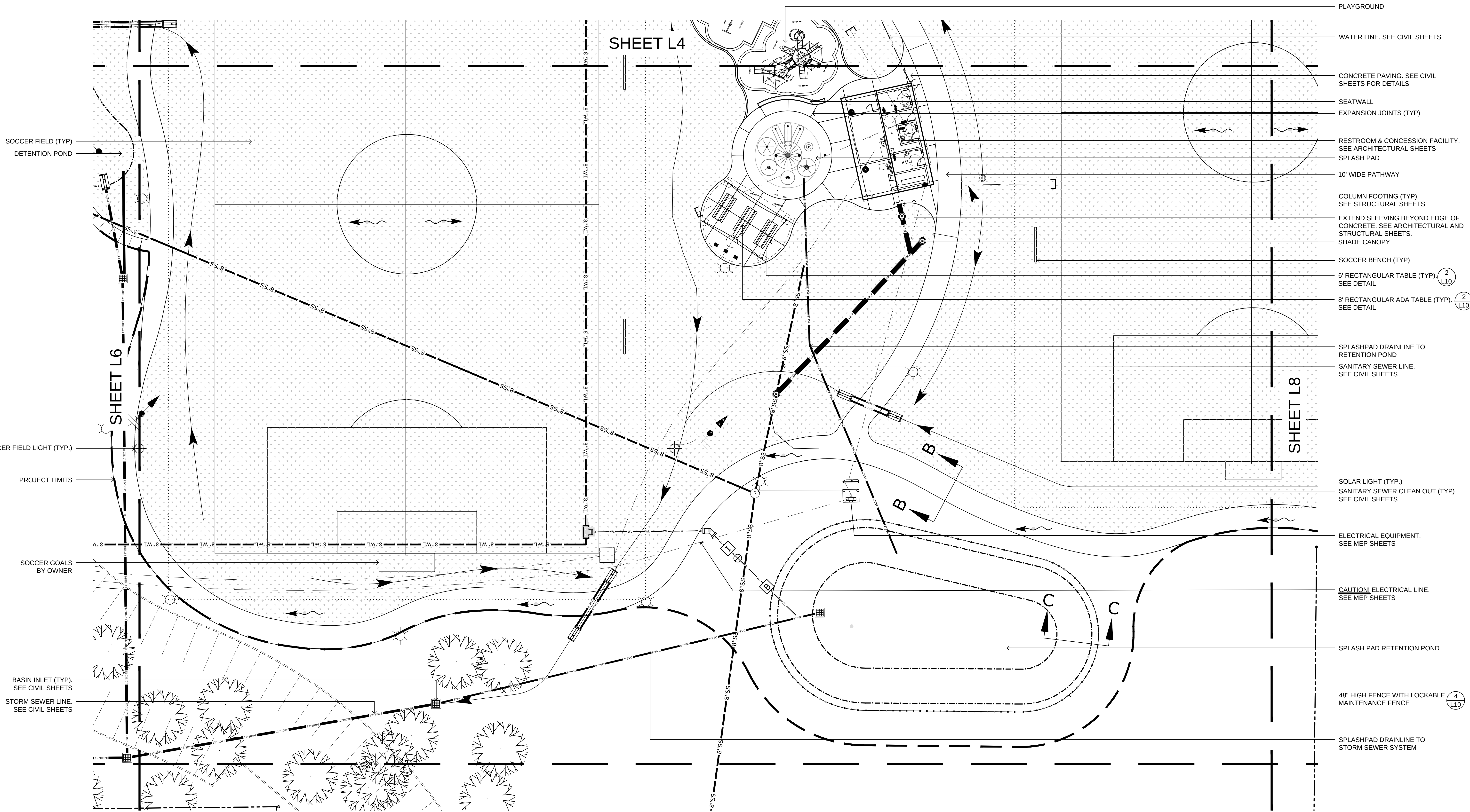
SHEET TITLE:

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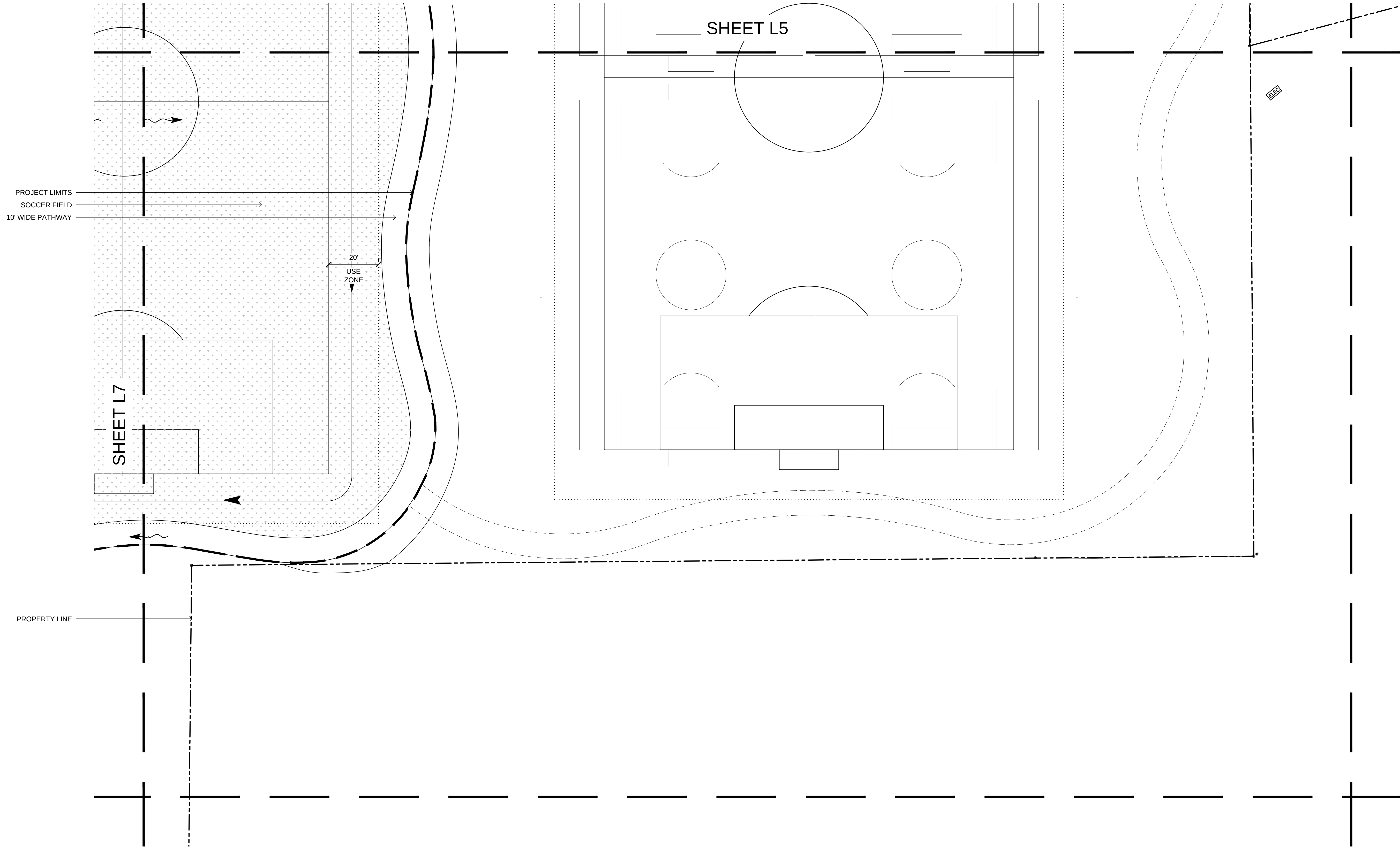
PROJECT NUMBER:
A17-02

SHEET NUMBER:

L6



DATE	DESCRIPTION
10-04-2018	ISSUED FOR CONSTRUCTION



DATE	DESCRIPTION
10-04-2018	ISSUED FOR CONSTRUCTION

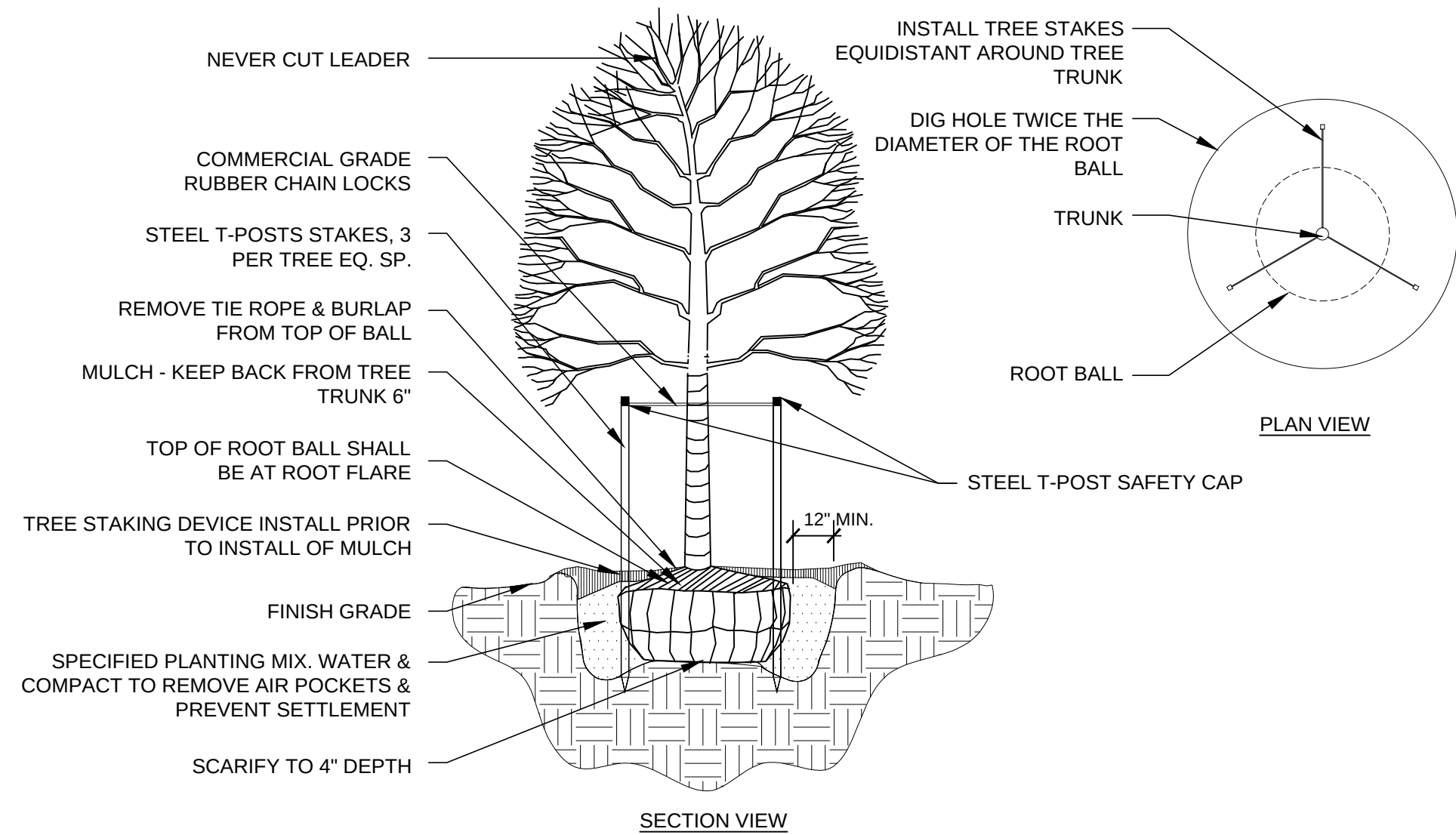
REGISTERED LANDSCAPE ARCHITECT
ANDREW T. HEFFNER
2828
STATE OF TEXAS
Andrew T. Heffner
DATE: 10-04-2018

SHEET TITLE:
ENLARGED
SITE PLAN

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PROJECT NUMBER:
A17-02

SHEET NUMBER:
L8



- NOTES:
- FOR EACH ONE (1) INCH CALIPER OF TREE TRUNK DIAMETER INSTALL ONE 21 GRAM AGRIFORM PLANTING TABLET. INSTALL HALF-WAY UP THE ROOTBALL 1" FROM ROOT TIPS.
 - SET TOP OF ROOT CROWN 1" ABOVE FINISHED GRADE WHERE APPLICABLE. TRIM FABRIC AROUND TRUNK OF TREE.
 - REMOVE ALL PLASTIC OR POLYETHYLENE MESH FROM ROOT BALLS.
 - REMOVE ALL NYLON TYING STRING.
 - STEEL CAGING TO BE REMOVED BY 2/3rds.
 - USE MULCH TREE RING IF TREE IS IN MULCHED LANDSCAPE BED ONLY OR LAWN.

1
L9

TREE & PALM PLANTING

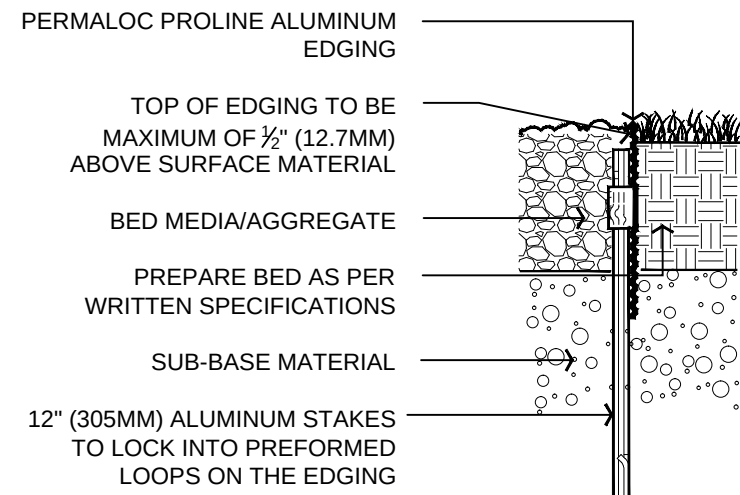
N.T.S.

SIZE:

1/8" X 4" (3.2MM X 102MM), 0.050" (1.27 MM) THICK
W/ 0.125" (3.18MM) EXPOSED TOP LIP

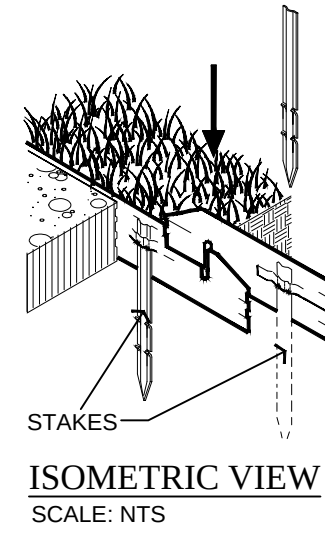
FINISH LEGEND:

- ARCHITECT NOTE: CHECK OFF APPLICABLE FINISH DESIRED
- ☐ (MF) MILL FINISH-NATURAL ALUMINUM
- ☒ (BL) BLACK DUROFLEX-ELECTROSTATICALLY APPLIED BAKED ON PAINT, MEETS AAMA 2603
- ☐ (GR) GREEN-ELECTROSTATICALLY APPLIED BAKED ON PAINT, MEETS AAMA 2603
- ☐ (BR) BRONZE-ELECTROSTATICALLY APPLIED BAKED ON PAINT, MEETS AAMA 2603



NOTES:

- INSTALL PER MANUFACTURER'S "INSTALLATION GUIDELINES".
- 8'-0" (2.44 M) SECTIONS TO INCLUDE (3) 12" (305 MM) ALUMINUM STAKES.
- 16'-0" (4.88 M) SECTIONS TO INCLUDE (5) 12" (305 MM) ALUMINUM STAKES.
- CORNERS - CUT BASE EDGING UP HALFWAY AND FORM A CONTINUOUS CORNER.
- PERMALOC PROLINE AS MANUFACTURED BY PERMALOC CORPORATION, HOLLAND MI. (800) 356-9660, (616) 399-9600 OR APPROVED EQUAL.
- CONTRACTOR'S NOTE: FOR PRODUCT AND PURCHASING INFORMATION VISIT:WWW.PERMALOC.COM

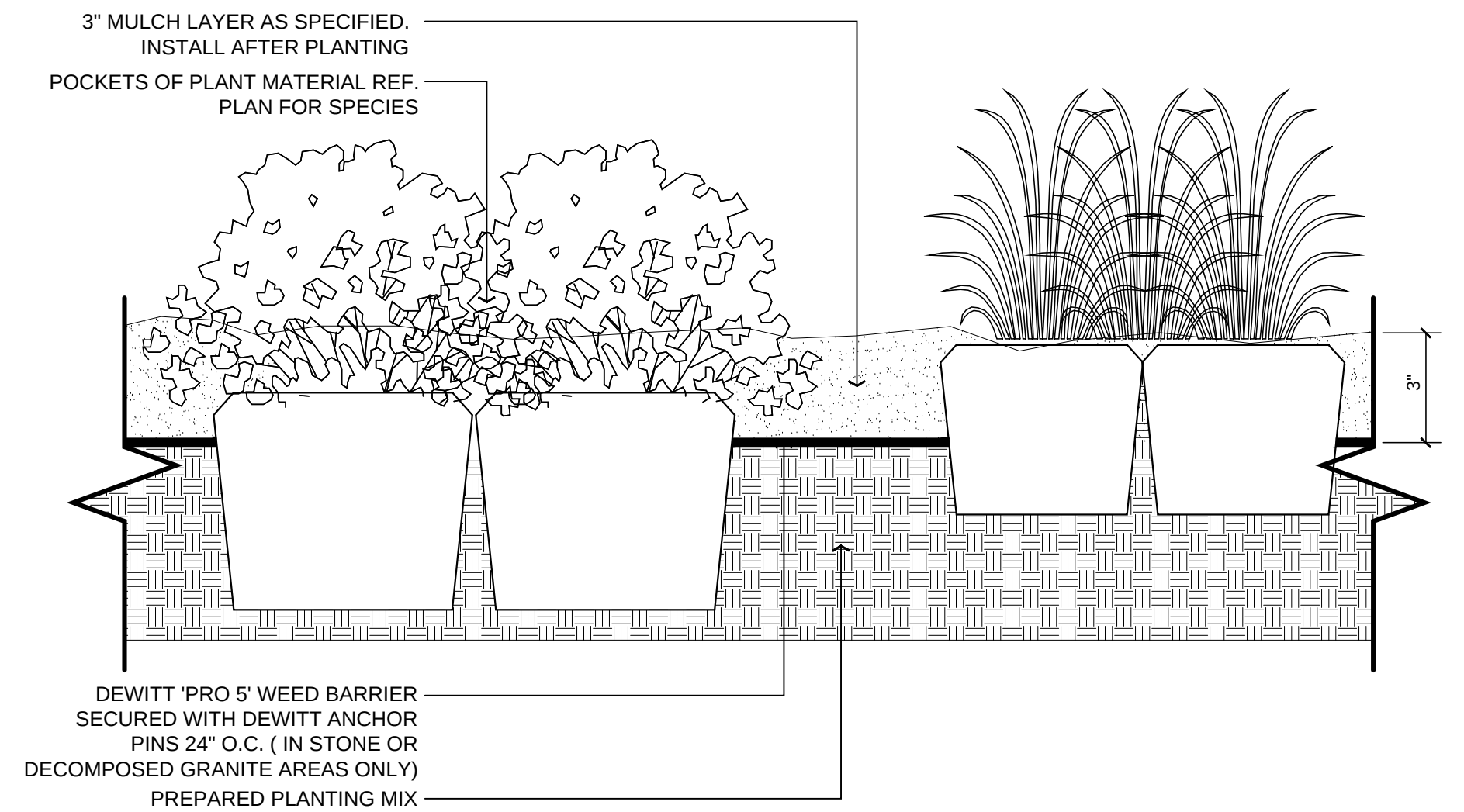


2
L9

PERMALOC ALUMINUM EDGING

N.T.S.

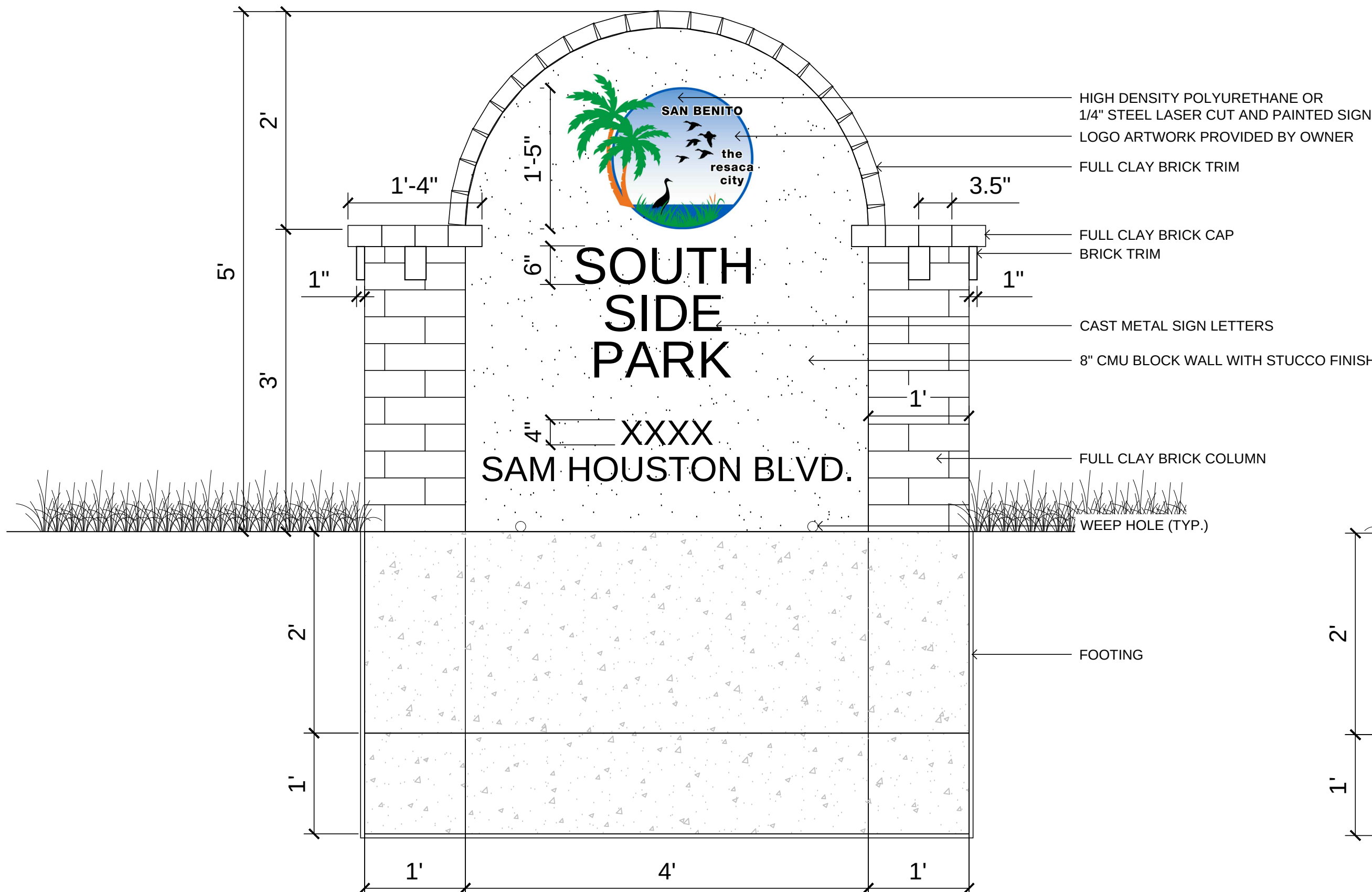
PLANT MATERIAL SPACING
AND GROUP VARY



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L9

1 & 3 GALLON SHRUB PLANTING

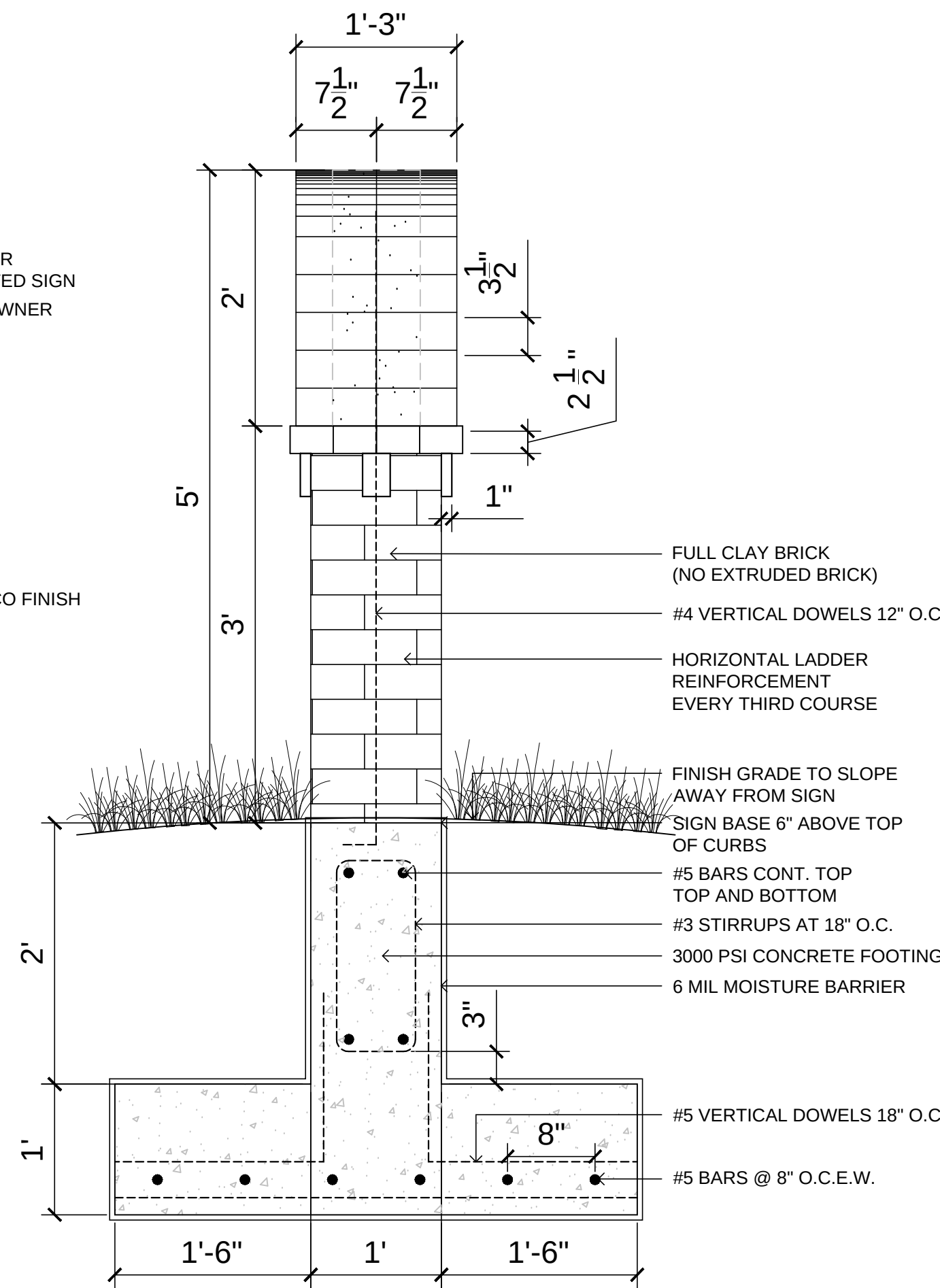
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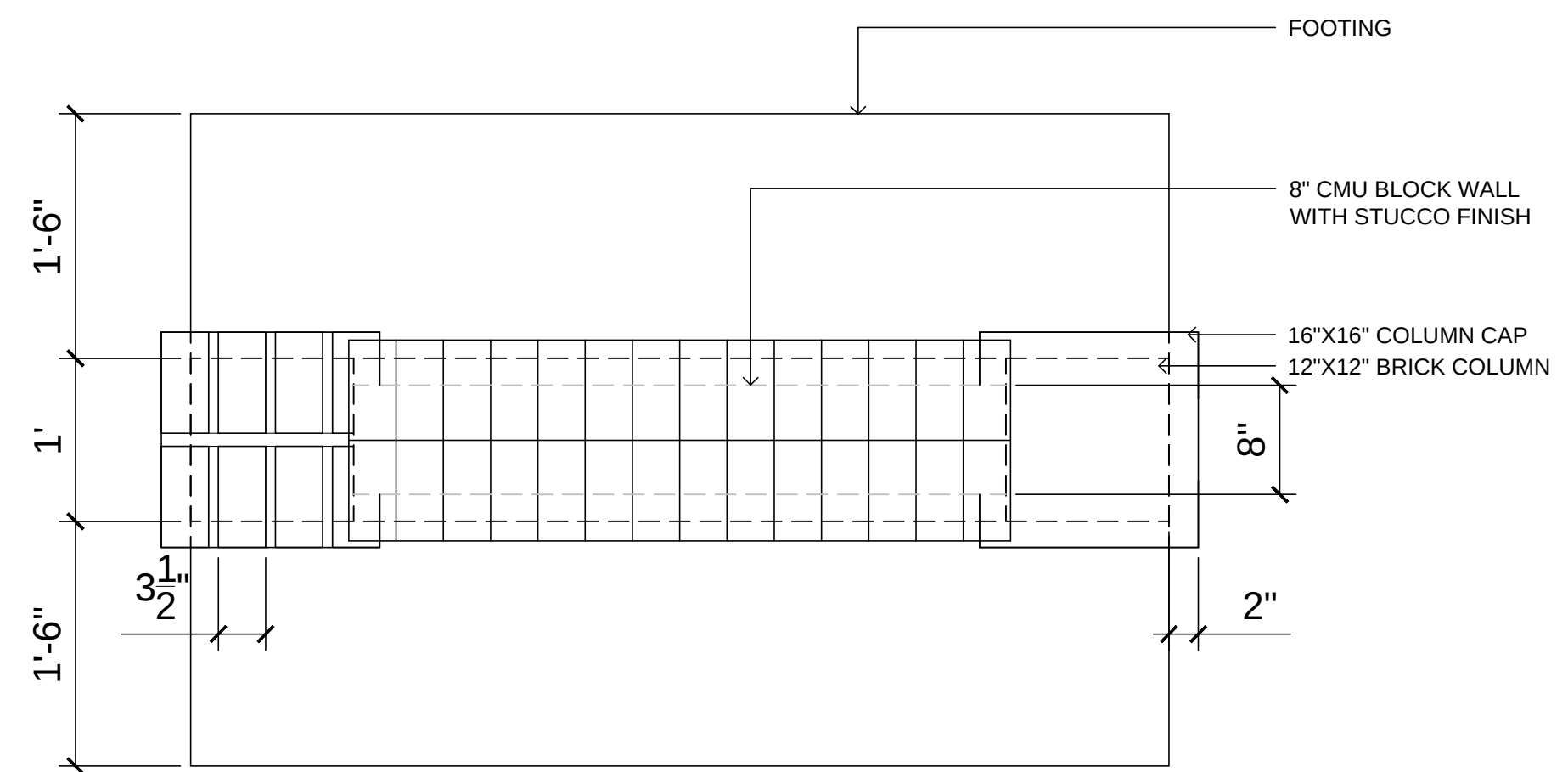
PARK ENTRANCE SIGN - ELEVATION

SCALE: 1" = 1'



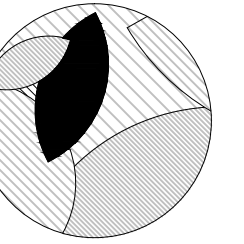
PARK ENTRANCE SIGN - PROFILE

SCALE: 1" = 1'



PARK ENTRANCE SIGN-PLAN VIEW

SCALE: 1" = 1'



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4814 N. 11TH ST. SUITE E
MCALLEN, TX. 78504
(956) 540-7850

SOUTH SIDE PARK - B
SAN BENITO, TX

PROJECT:

DESCRIPTION
ISSUED FOR CONSTRUCTION

DATE
10-04-2018



Andrew J. Heffner

DATE: 10-04-2018

SITE
DETAILS

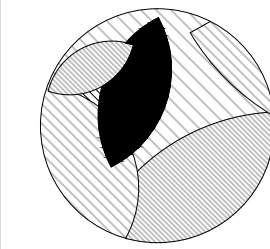
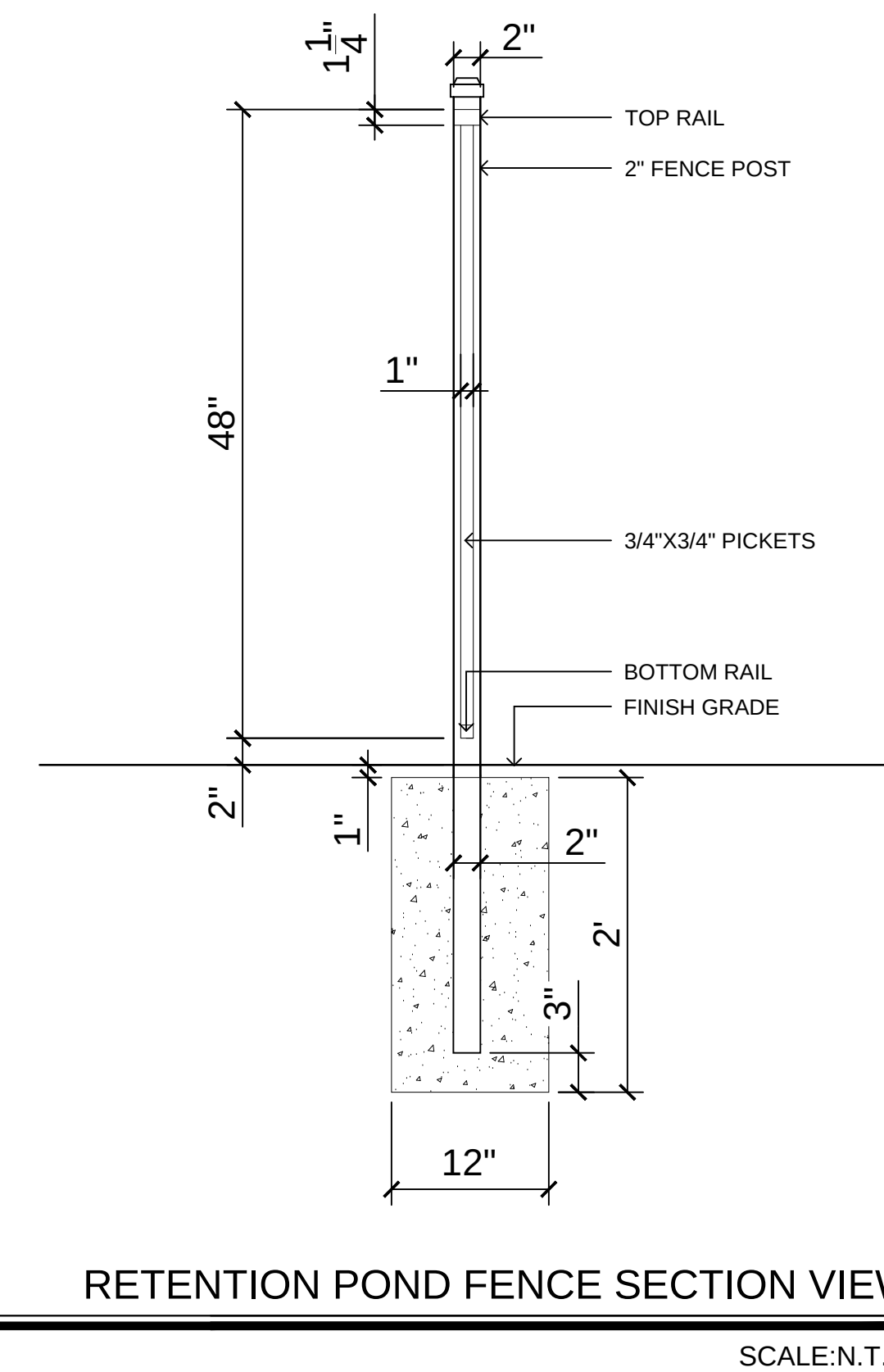
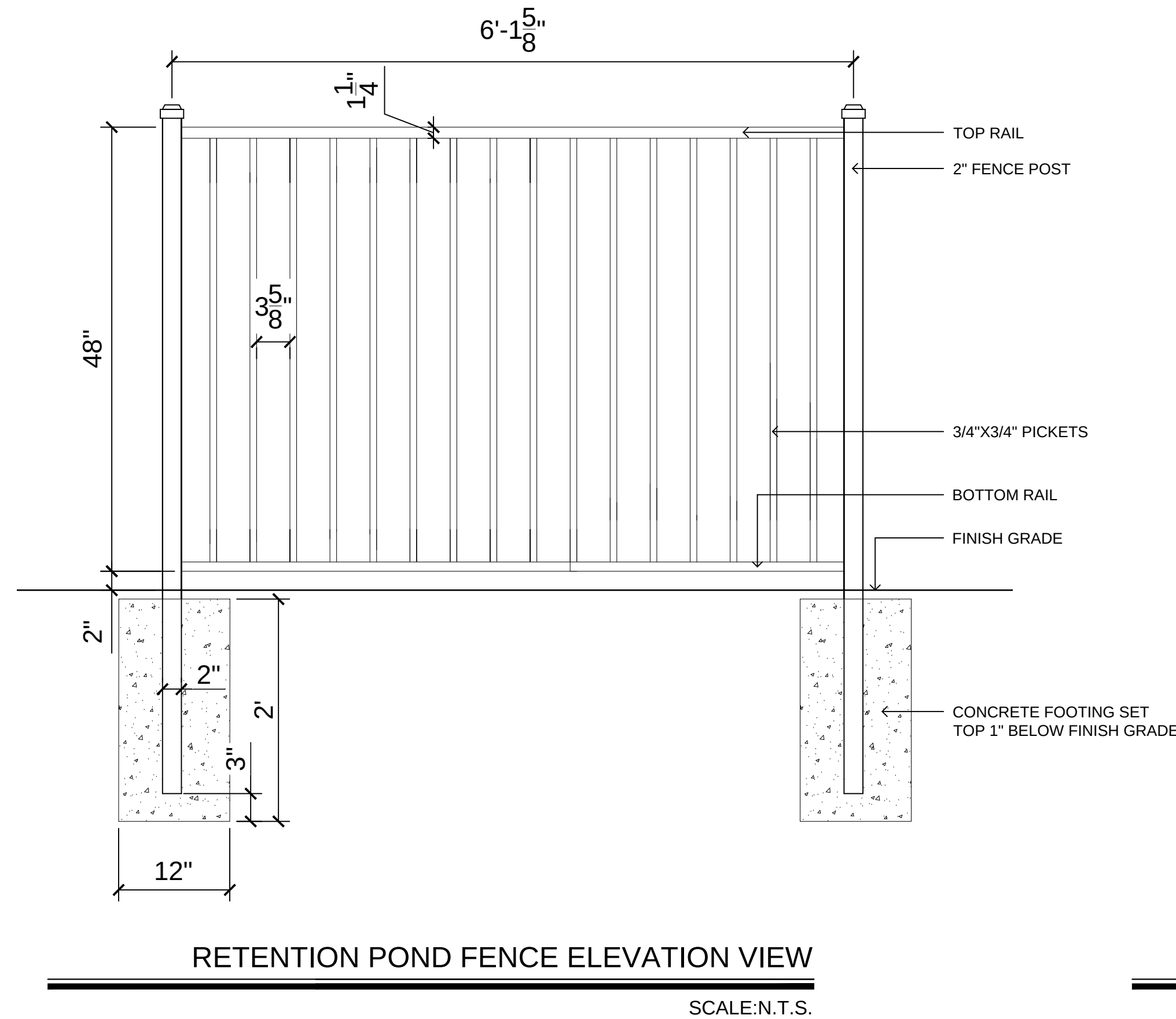
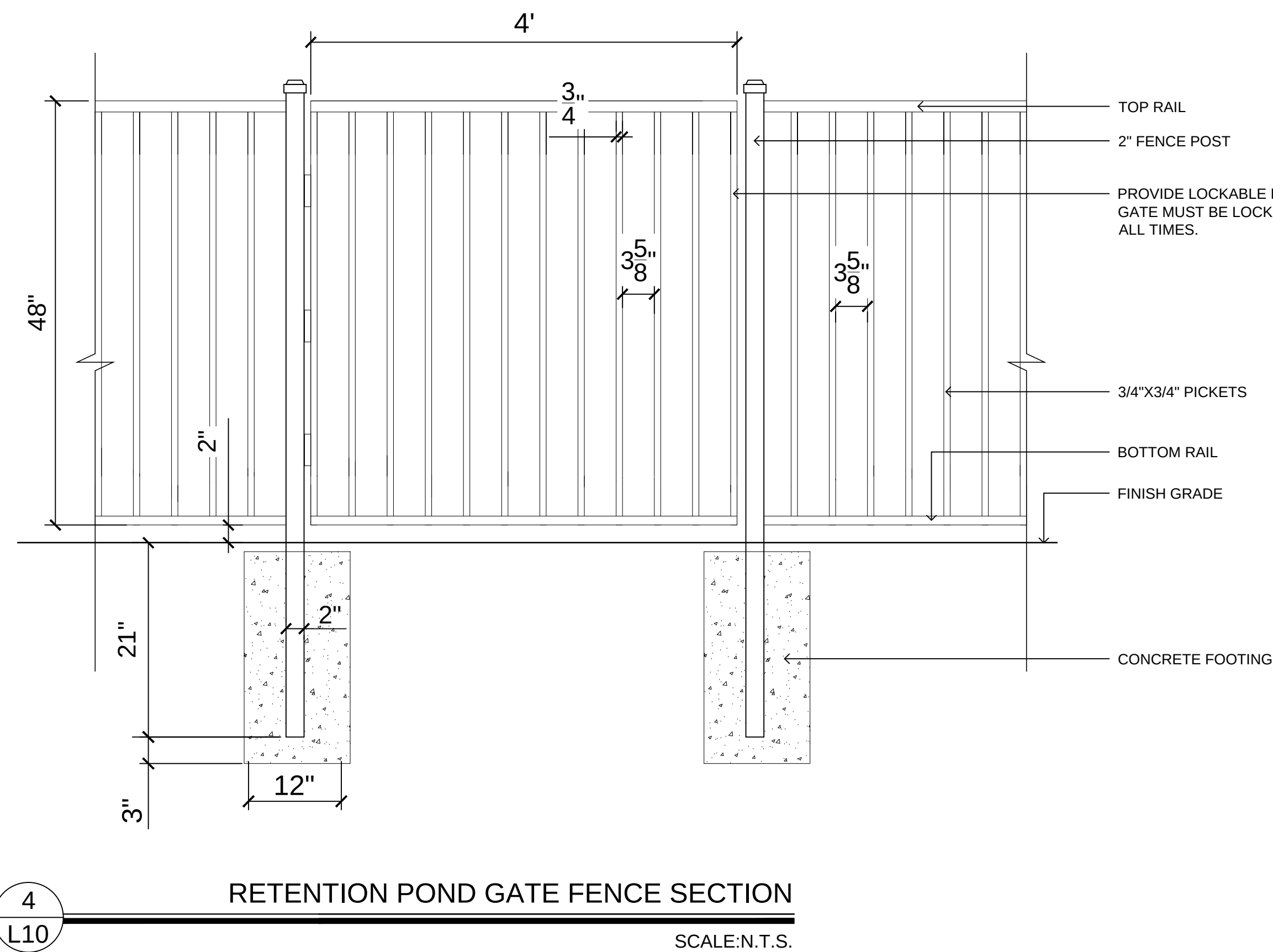
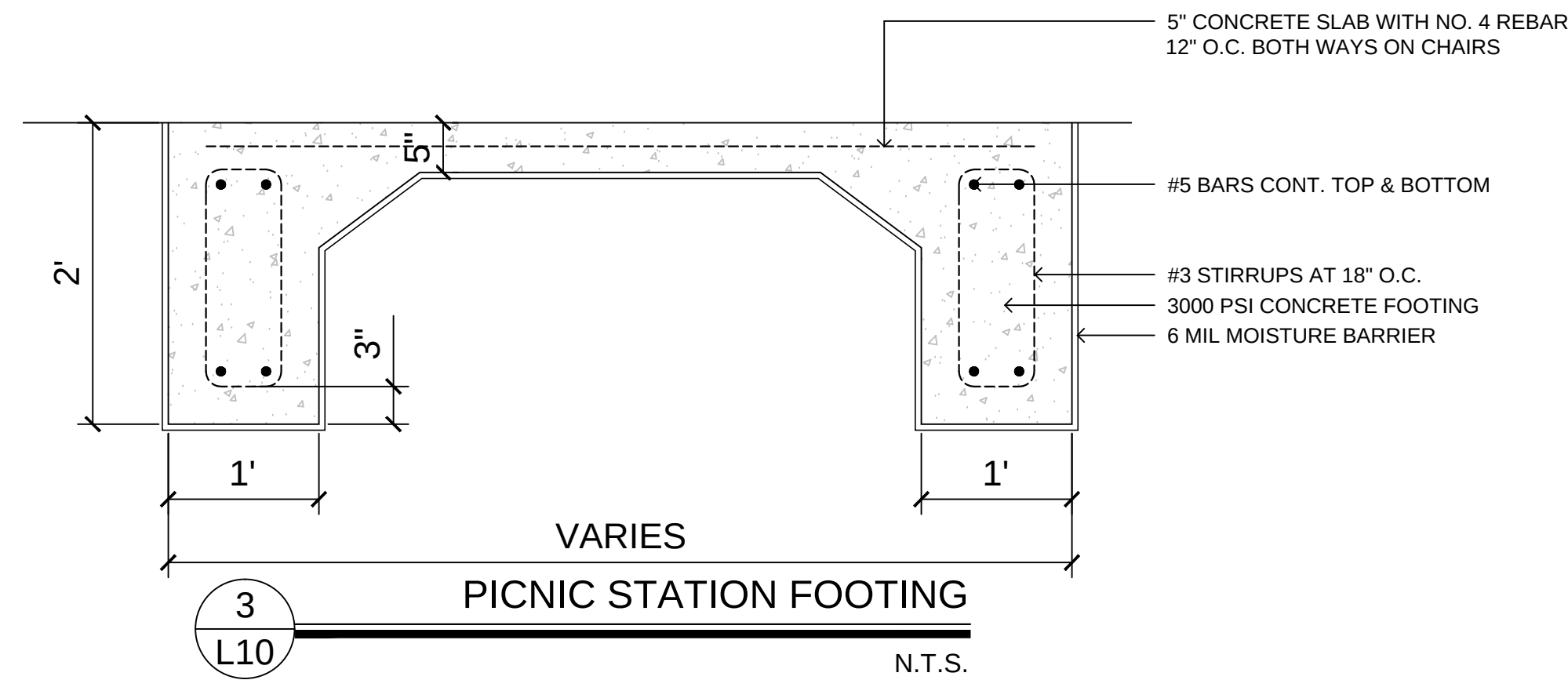
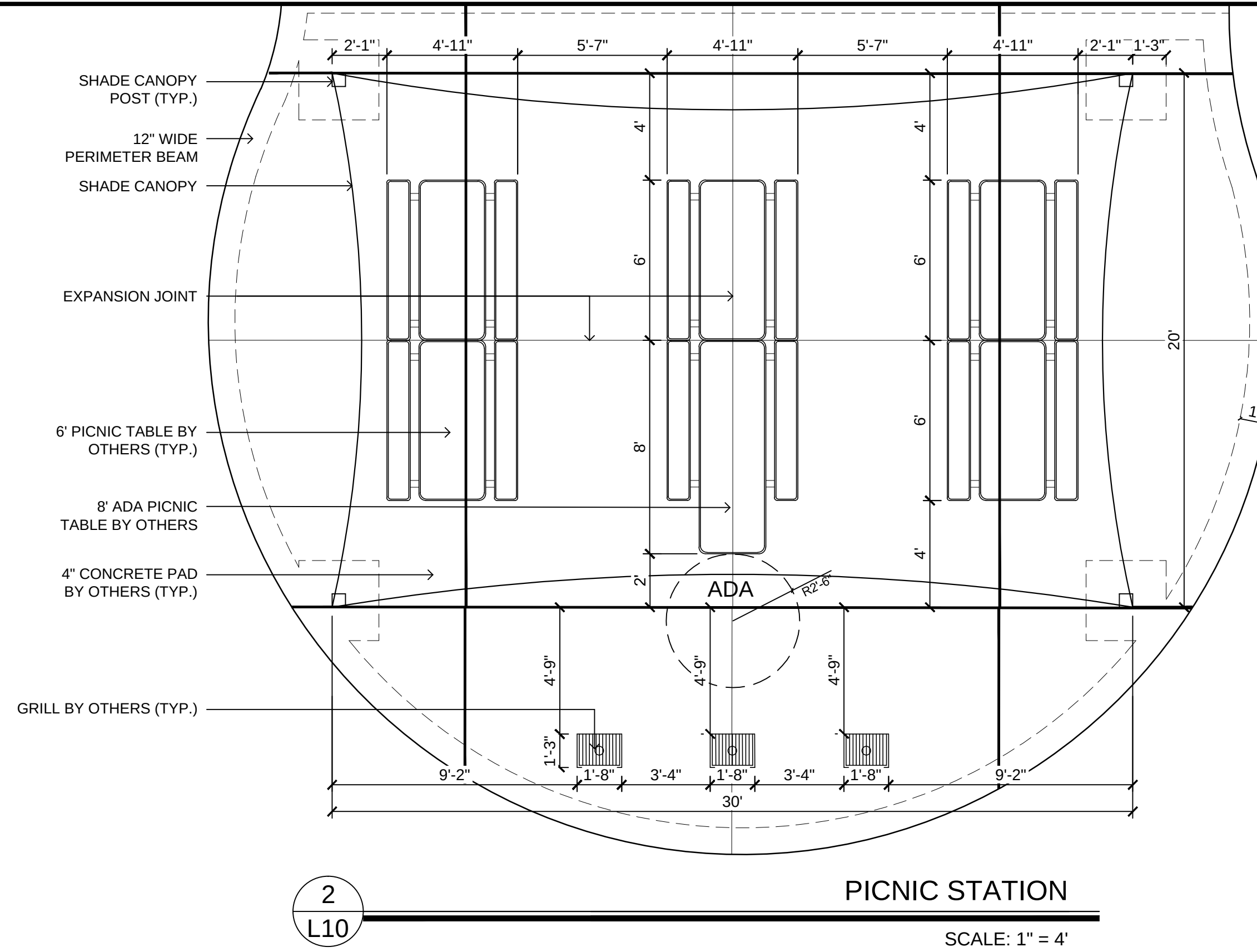
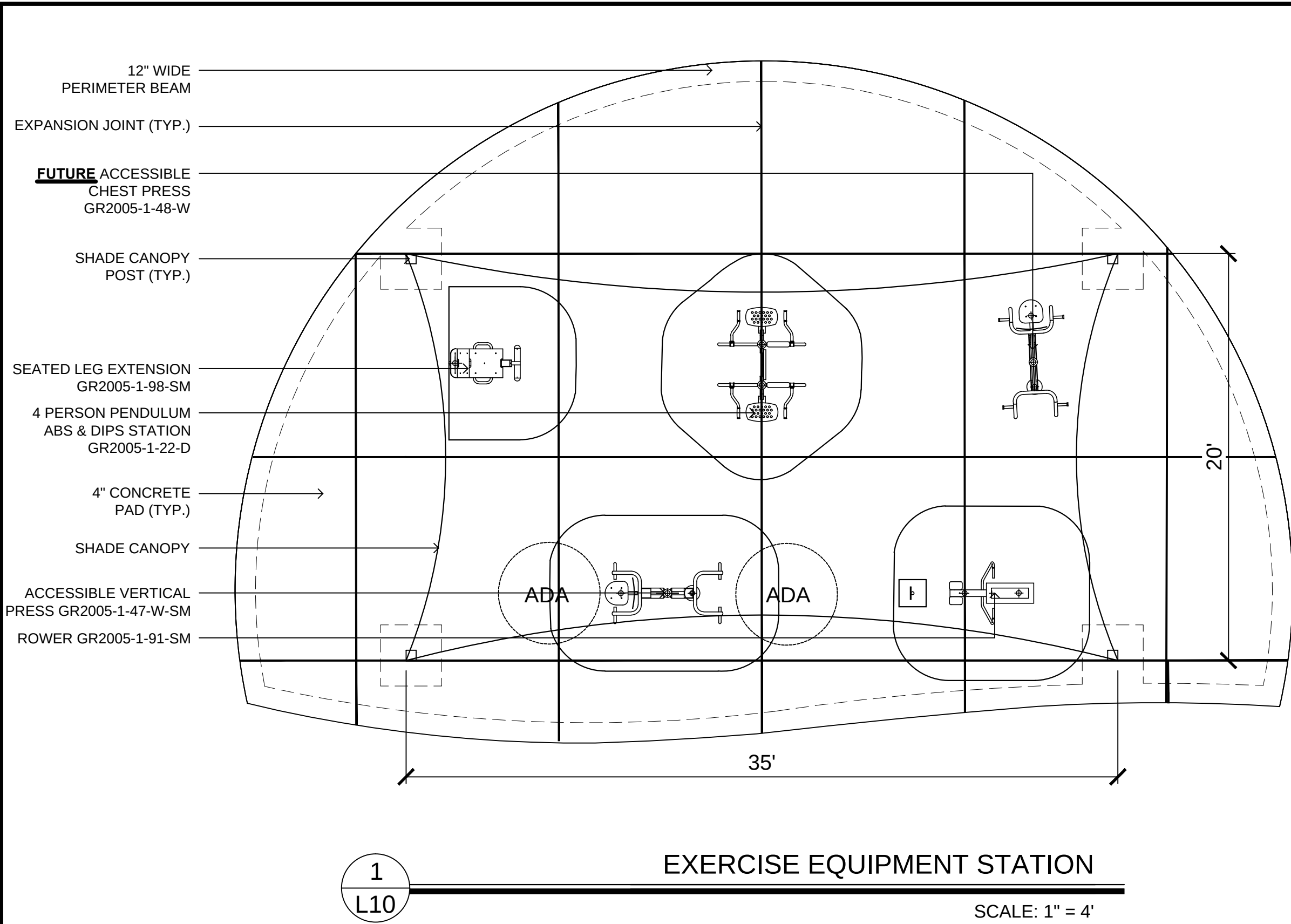
SHEET TITLE:

These Drawings and Specifications are to be an instrument of service and shall remain the property of the Landscape Architect. They are not to be used on other projects or extensions to this project except by agreement in writing with the Landscape Architect. The Landscape Architect is not responsible for construction means, methods, sequences or procedures or for safety precautions and programs in connection with the project.

PROJECT NUMBER:
A17-02

SHEET NUMBER:

L9



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SOUTH SIDE PARK - B
SAN BENITO, TX

PROJECT:

DESCRIPTION

ISSUED FOR CONSTRUCTION

DATE

10-04-2018



Andrew T. Heffner

DATE: 10-04-2018

SITE
DETAILS

SHEET TITLE:

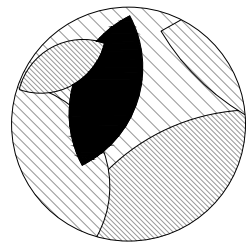
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PROJECT NUMBER:

A17-02

SHEET NUMBER:

L10



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SOUTH SIDE PARK - B
SAN BENITO, TX

PROJECT:

DATE	DESCRIPTION		DATE	REVISION #1		
	ISSUED FOR CONSTRUCTION	REVISION #1				
10-04-2018			10-31-2018			



DATE: 10-31-18

SHEET TITLE: GENERAL NOTES

These Drawings and Specifications are to be an instrument of service and shall remain the property of the Landscape Architect. They are not to be used on other projects or extensions to this project except by agreement in writing with the Landscape Architect. The Landscape Architect is not responsible for construction means, methods, sequences or procedures or for safety precautions and programs in connection with the project.

PROJECT NUMBER:
17-108

SHEET NUMBER:

C1.0

SITE PLAN NOTES

GENERAL SITE NOTES:

- ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY, COUNTY, STATE, FEDERAL AND OSHA REGULATIONS.
- ALL DISTURBED AREAS ARE TO RECEIVE SEED, MULCH, AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED. REFER TO LANDSCAPE & IRRIGATION PLANS.
- ALL DIMENSIONS AND RADII ARE TO THE BACK OF CURB, EDGE OF PAVEMENT, CENTER OF STRIPE OR OBJECT, OR FACE OF BUILDING UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE DONE IN ACCORDANCE WITH GOVERNING AUTHORITIES SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTION AND REPLACEMENT OF PROPERTY CORNERS.
- CONTRACTOR SHALL MATCH EXISTING CURB & GUTTER IN GRADE, SIZE, TYPE AND ALIGNMENT WHERE APPLICABLE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO DAMAGE OF ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPPING, CURB, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING.

DEMOLITION PLAN NOTES

"CAUTION" - NOTICE TO CONTRACTOR:

THE CONTRACTOR IS PUT ON NOTICE THAT THERE ARE NUMEROUS UNDERGROUND UTILITIES IN THE LINE OF WORK, INCLUDING WATER, SEWER, GAS, TELEPHONE IRRIGATION (CONCRETE PIPE) AND ELECTRIC. THERE MAY BE OTHER UTILITIES INCLUDING CABLE TELEVISION, TELECOMMUNICATIONS AND OTHERS. SOME OF THESE UTILITIES MAY BE ABANDONED, WHILE MANY ARE ACTIVE.

THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN CONDUCTING EXCAVATION OPERATIONS, AND IF ANY EXISTING UTILITIES ARE DAMAGED, THEY SHALL BE REPAIRED IMMEDIATELY AT NO COST TO THE OWNER. THE CONTRACTOR IS TO BE AWARE THAT IF ANY EXISTING UTILITIES ARE SHOWN ON THE PLANS THEY ARE SHOWN IN THEIR APPROXIMATE LOCATION ONLY AND THAT THE EXISTING UTILITIES SHOWN REPRESENT ONLY A DILIGENT EFFORT TO SHOW THE APPROXIMATE LOCATION OF SOME OF THE UTILITIES.

THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST FILED LOCATION OF UTILITIES.

"NOTICE TO CONTRACTOR" - TEXAS ONE CALL SYSTEM:

AS REQUIRED BY THE "TEXAS UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT" TEXAS ONE CALL SYSTEM MUST BE CONTACTED (800-245-4545) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OPERATIONS PERFORMED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT TEXAS ONE CALL SYSTEM.

GENERAL DEMOLITION NOTES:

- NO EARTH DISTURBING ACTIVITIES SHALL COMMENCE UNTIL ALL PERIMETER EROSION CONTROL MEASURES ARE IN PLACE IN ACCORDANCE WITH THE EROSION & SEDIMENT CONTROL PLAN.
- CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH ALL REGULATIONS GOVERNING THE DEMOLITION, REMOVAL, TRANSPORTATION AND DISPOSAL OF ALL DEMOLITION DEBRIS.
- THE CONTRACTOR SHALL LOCATE AND REMOVE ALL UNDERGROUND UTILITY PIPING, IRRIGATION PIPING, AND CONDUIT ON EXISTING SITE AS PART OF THE BASE BID, UP TO A DEPTH OF 24 INCHES BELOW EXISTING GRADES.
- CONTRACTOR SHALL LOCATE AND REMOVE ALL UNDERGROUND UTILITY CABLES (ELECTRIC, TELEPHONE, ETC.) ON THIS SITE UP TO A DEPTH OF 24 INCHES BELOW EXISTING GRADES AS PART OF BASE BID.
- CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS FOR EXCAVATING AND TRENCHING PROCEDURES. CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, ETC. AS NECESSARY FOR THESE OPERATIONS, AND SHALL COMPLY WITH ALL OSHA PERFORMANCE CRITERIA.
- THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE PROTECTION OF ALL PROPERTY CORNER MONUMENTS, AND SHALL HAVE, AT HIS EXPENSE, ALL CORNER MONUMENTS REPLACED WHICH ARE DISTURBED BY CONSTRUCTION ACTIVITIES.
- NOTES SHOWN HERE ON REGARDING SPECIFIC ITEMS OF DEMOLITION ARE GENERAL IN NATURE, AND ARE NOT INTENDED TO BE WHOLLY INCLUSIVE. THE CONTRACTOR SHALL DEMOLISH AND REMOVE ALL EXISTING IMPROVEMENTS TO THE EXTENT AS NOTED IN THE SPECIFICATIONS, TO THE SATISFACTION OF THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING DISCONNECTION OF ALL UTILITIES SERVING THE EXISTING SITE WITH THE APPROPRIATE UTILITY COMPANY, AND SHALL OBTAIN APPROVAL FROM SAME TO COMMENCE DEMOLITION ACTIVITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLUGGING, CAPPING, OR OTHERWISE TERMINATING UTILITY SERVICE LINES AT EXISTING METER LOCATIONS, CLEANOUTS, ETC.

INSPECTIONS/CERTIFICATIONS NOTE:

ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.

UTILITY PLAN NOTES

GENERAL UTILITY NOTES:

- ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
- CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
- IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATER LINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING, THE WATER LINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 18" CLEARANCE, MEETING REQUIREMENTS OF ANSI A21.10 OR ANSI 21.11 (AWWA C-151) (CLASS 50). CONTRACTOR SHALL BE RESPONSIBLE FOR ADDING 45° BENDS WHERE NECESSARY TO ROUTE PROPOSED WATER LINES AROUND PROPOSED STORM SEWER.
- CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND TO ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH THE CITY UTILITY DEPARTMENT AS TO LOCATION AND SCHEDULING OF TIE-INS/CONNECTIONS PRIOR TO CONNECTING TO EXISTING UTILITIES.
- MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
- LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED PRIOR TO BACKFILLING.
- ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
- DRAWINGS TO NOT PURPORT TO SHOW ALL EXISTING UTILITIES.
- EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
- CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE LOCAL AUTHORITIES WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
- CONTRACTOR SHALL COMPLY COMPLETELY WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURE. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, AND OTHER MEANS OF PROTECTION. THIS IS TO INCLUDE BUT NOT LIMITED FOR ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH PERFORMANCE CRITERIA AS OUTLINED BY OSHA.
- ALL STEEL ENCASEMENT PIPE SHALL HAVE A WALL THICKNESS OF 0.25 INCHES.
- ALL SANITARY SEWER AND WATER LINES SHALL COMPLY WITH THE REQUIREMENTS AS SPECIFIED IN THE SPECIFICATIONS.
- DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE OR FITTING, TO CENTERLINE OF MANHOLE, FACE OF BUILDING, OR BACK OF CURB UNLESS OTHERWISE NOTED.
- IN THE EVENT OF DAMAGE TO UNDERGROUND FACILITIES, WHETHER SHOWN OR NOT SHOWN IN THE DRAWINGS, THE CONTRACTOR SHALL MAKE THE NECESSARY REPAIRS TO PLACE THE FACILITIES BACK IN SERVICE AT NO INCREASE IN THE CONTRACTOR'S PRICE, AND ALL SUCH REPAIRS SHALL CONFORM TO THE REQUIREMENTS OF THE COMPANY OR AGENCY SERVICING THE FACILITY.
- THE CONTRACTOR SHALL EXERCISE EXTRA CARE TO PREVENT DAMAGE TO ALL OTHER STRUCTURES IN THE AREA INCLUDING BUILDINGS, FENCES, ROADS, PIPELINES, UTILITIES, ETC., WHETHER PUBLICLY OR PRIVATELY OWNED.
- UNTIL ACCEPTANCE BY THE ENGINEER OF ANY PART OR ALL OF THE CONSTRUCTION, AS PROVIDED FOR IN THE PLANS AND SPECIFICATIONS, IT SHALL BE UNDER THE CHARGE AND CARE OF THE CONTRACTOR, AND HE SHALL TAKE EVERY NECESSARY PRECAUTION AGAINST INJURY OR DAMAGE TO ANY PART OF THE WORK. THE CONTRACTOR SHALL REBUILD REPAIRS, RESTORE AND MAKE GOOD, AT HIS OWN EXPENSE, ALL INJURIES OR DAMAGE TO ANY PORTION OF THE WORK BEFORE ITS COMPLETION AND ACCEPTANCE.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE CITY FOR ANY CONSTRUCTION DONE ON PUBLIC R.O.W. AND SHALL INCLUDE TRAFFIC CONTROL AS REQUIRED.
- NOTICE TO CONTRACTOR: TEXAS ONE CALL SYSTEM AS REQUIRED BY "THE TEXAS UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT" TEXAS ONE CALL SYSTEM MUST BE CONTACTED (800-245-4545) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OPERATIONS PERFORMED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT TEXAS ONE CALL SYSTEM.
- CONTRACTOR SHALL VISIT EXISTING CONDITIONS OF THE SITE.
- CONTRACTOR SHALL IDENTIFY ALL UNDERGROUND LINES BEFORE COMMENCING WORK. CONTRACTOR SHALL ADJUST ANY ELECTRICAL LINES THAT CONFLICT WITH CONSTRUCTION OF THESE IMPROVEMENTS.

TRAFFIC CONTROL NOTE:

GUIDELINES SET FORTH IN PART IV "STANDARDS AND GUIDES FOR TRAFFIC CONTROLS FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, UTILITY, AND INCIDENT MANAGEMENT" OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MOST RECENT EDITION AS REVISED) SHALL BE OBSERVED.

UTILITY PLAN DETAIL NOTES

GENERAL NOTES FOR WATER CONSTRUCTION:

- DISINFECTION OF NEW WATER MAINS SHALL BE IN CONFORMANCE WITH AWWA C601 & C651. ALL NEW WATER MAINS SHALL BE DISINFECTED BEFORE THEY ARE PLACED IN SERVICE. ALL WATER MAINS TAKEN OUT OF SERVICE FOR INSPECTING, REPAIRING OR OTHER ACTIVITY WHICH MIGHT LEAD TO CONTAMINATION OF WATER SHALL BE DISINFECTED BEFORE THEY ARE RETURNED TO SERVICE.
- ALL WATER LINE PIPE FURNISHED SHALL MEET THE REQUIREMENTS OF AWWA C900. LATEST REVISION. HYDROSTATIC TEST SPEC. SHALL BE 150 P.S.I FOR 8 HOURS OR 180 P.S.I FOR 4 HOURS.
- DUCTILE IRON PIPE SHALL CONFORM TO AWWA C110 STANDARDS.
- CONTRACTOR SHALL PROVIDE ADEQUATE THRUST BLOCKING TO WITHSTAND THRUST PRESSURE. NO SEPARATE PAY.
- WATER LINE TRENCHES INSIDE STREET RIGHT OF WAY SHALL HAVE SAND BEDDING TO THE SPRINGLINE OF THE PIPE AND THEN BACKFILLED WITH SELECT FILL IN MAX 8" LIFTS AND COMPACTED TO A MINIMUM OF 95% STD. DENSITY, AT +/-3% OF OPTIMUM MOISTURE CONTENT.
- MAINTAIN A MINIMUM OF 18 INCHES VERTICAL CLEARANCE BETWEEN WATER LINES AND ALL OTHER UTILITIES.
- UNLESS OTHERWISE APPROVED, ALL WATER MAINS SHALL BE PLACED A MINIMUM DEPTH OF 4'-6" BELOW TOP OF PROPOSED STREET CURBS OR 48" OF COVER ABOVE PIPE LOCATED IN STREET RIGHT OF WAY OR EASEMENTS.
- ALL CONCRETE BLOCKING SHALL CONSIST OF 3000-P.S.I CONCRETE.
- ALL WORK AND MATERIAL SHALL BE SUBJECT TO CITY ENGINEERS APPROVAL DURING CONSTRUCTION AND UPON COMPLETION.
- ALL WATER SERVICE LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH GOVERNING REGULATIONS.
- TRACER WIRE SHALL BE INSTALLED ON ALL PUBLIC WATER LINES.

MANHOLE TESTING:

MANHOLES SHALL BE TESTED FOR LEAKAGE SEPARATELY AND INDEPENDENTLY OF THE WASTEWATER LINES BY HYDROSTATIC EXFILTRATION TESTING, VACUUM TESTING OR OTHER METHODS ACCEPTABLE TO THE COMMISSION. IF A MANHOLE FAILS A LEAK TEST, THE MANHOLE MUST BE MADE WATER TIGHT AND RETESTED. THE MAXIMUM LEAKAGE FOR HYDROSTATIC TESTING SHALL BE 0.025 GALLONS PER FOOT DIAMETER PER FOOT ON MANHOLE DEPTH PER HOUR.

SEWER PIPE TESTING:

EXFILTRATION TESTS SHALL BE PERFORMED ON ALL SEWER PIPE USING LOW PRESSURE AIR TEST. THE PROCEDURE FOR THE LOW PRESSURE AIR TEST SHALL CONFORM TO THE PROCEDURE DESCRIBED IN ASTM C-924, ASTM F-1417, OR OTHER APPROPRIATE PROCEDURES.

DEFLECTION TESTING:

DEFLECTION TEST SHALL BE PERFORMED ON ALL FLEXIBLE PIPES. FOR PIPE WITH INSIDE DIAMETERS LESS THAN 27 INCHES, A RIGID MANDREL SHALL BE USED TO MEASURE DEFLECTION. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. NO PIPE SHALL EXCEED A DEFLECTION OF 5%.

GENERAL NOTES FOR SEWER CONSTRUCTION:

- THE TOP ELEVATION OF MANHOLES AND CLEANOUTS CONSTRUCTED IN PAVED AREAS SHALL MATCHED FINISHED PAVEMENT GRADE. THE TOP ELEVATION OF MANHOLES CONSTRUCTED IN GRASSED AREAS SHALL BE SIX (6) INCHES ABOVE FINISHED GRADE (UNLESS OTHERWISE NOTED).
- SEWER PIPE DIAMETERS AND MATERIAL SHALL BE AS INDICATED ON PLANS AND SPECIFICATIONS.
- CONTRACTOR MUST BE LICENSED AND BONDED.
- PIPE SHALL BE BURIED A MINIMUM OF 4'.
- CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE.
- REPAIR OF ALL EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL MAKE EVERY EFFORT POSSIBLE TO MINIMIZE THE DISTURBANCE OF ALL EXISTING SHRUBS, LAWNS, AND OTHER LANDSCAPING FEATURES AND SHALL COORDINATE REMOVAL OF TREES WITH OWNERS OR ENGINEER.
- PLUGS BETWEEN THE EXISTING AND PROPOSED SYSTEM SHALL BE REMOVED ONLY WHEN THE PROPOSED SANITARY SEWERS HAVE BEEN COMPLETED, TESTED AND ACCEPTED. NO PLUG SHALL BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.
- SEWER SERVICE SHALL BE MAINTAINED TO ALL RESIDENCES AT ALL TIMES. IF FOR ANY REASON, THE CONTRACTOR NEEDS TO INTERRUPT SERVICE, HE SHALL FIRST OBTAIN APPROVAL FROM ENGINEER.
- ALL CUT & PLUG OF SEWER LINES SHALL BE CONSIDERED SUBSIDIARY TO OTHER BID ITEMS. NO SEPARATE PAY WILL BE ALLOWED.
- WHENEVER SANITARY SEWER CROSSES WITHIN 10 FEET ABOVE OR BELOW A WATER LINE, THE SANITARY SEWER SHALL BE CONSTRUCTED OF D.I. CLASS 50, PRESSURE PIPE OR AWWA C900 PVC FOR A MINIMUM DISTANCE OF 10 FEET ON EITHER SIDE OF THE WATER LINE.
- ALL SANITARY SEWER MAINS SHALL BE SDR-26 PVC WITH 4' MINIMUM BURY, PIPE PER THE CITY REQUIREMENTS.
- P.V.C. PIPE SHALL HAVE BELL AND SPIGOT JOINTS. NO CHEMICALLY WELDED JOINTS SHALL BE PERMITTED.
- GRADES FOR SEWER MAINS MAY BE VARIED FROM ELEVATIONS INDICATED ON THE PLANS ONLY ON THE DIRECTION AND APPROVAL OF THE OWNER OR HIS AUTHORIZED REPRESENTATIVE.
- ALL UTILITIES MAY BE OPEN-CUT UNLESS SPECIFICALLY NOTED OTHERWISE. REPAIR OF ALL EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL DUCTILE IRON PIPE SHALL BE POLYETHYLENE LINED.

STORM SEWER PLAN NOTES

STORM SEWER NOTES:

- IF THE CONTRACTOR RELOCATES BENCHMARK WITH A NEW BENCHMARK, IT SHALL BE LOCATED WITHIN A TOLERANCE OF 0.10'.
- CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES AND BE CONSTRUCTED TO SAME.
- SEE SPECIFICATIONS FOR BACKFILLING AND COMPACTION REQUIREMENTS OF STORM SEWER TRENCHES.
- ALL PIPES ENTERING STORM SEWER STRUCTURES SHALL BE GROUTED WITH NON-SHRINK GROUT TO ASSURE A WATERTIGHT FIT.
- ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING LIDS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISHED GRADE. LIDS SHALL BE LABELED "STORM SEWER".
- THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS OUTLINED IN THE T.P.D.E.S. PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING SWPPP AND REQUIRED PERMITS.
- CONTRACTOR SHALL UTILIZE PREFABRICATED BENDS, FIELD FABRICATED BENDS OR RADIUS PIPE TO ACCOUNT FOR DEFLECTIONS IN STORM SEWER PIPE WHERE SHOWN HEREON.
- PRECAST STRUCTURES MAY BE USED AT CONTRACTORS OPTION.
- EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED TO REMOVE ALL SILT AND DEBRIS.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
- ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR FROM INVERT IN TO INVERT OUT.
- REINFORCED CONCRETE PIPE SHALL BE CLIII RUBBER GASKET

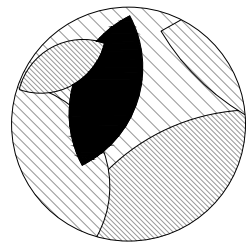
GRADING PLAN NOTES

GENERAL GRADING NOTES:

- CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE. UTILITIES ARE TO BE REMOVED TO THE RIGHT-OF-WAY.
- ALL CUT OR FILL SLOPES SHALL BE 3:1 UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL ADJUST AND/OR SAW CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE SMOOTH FIT AND CONTINUOUS GRADE.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
- ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPED 3:1 OR STEEPER. REFER TO LANDSCAPE & IRRIGATION PLANS.
- CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
- STRIP THE TOP 6" OF TOPSOIL AND VEGETATION FROM PROPOSED PAVING AND SIDEWALKS. STRIPPED TOPSOIL MAY BE STOCKPILED AND USED FOR FILL IN LANDSCAPE AND LAWN AREAS PROVIDED IT IS FREE OF ROCKS AND TRASH.
- FILL BELOW PROPOSED PAVEMENT AREAS MAY BE SELECT FILL WITH PLASTICITY INDEX RANGING FROM 5-17%.
- ALL SIDEWALKS SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT. ELEVATIONS OF TOP OF CURB NEAR BUILDING ASSUME 1/4" PER FOOT SLOPE ACROSS COVERED ENTRY AND SIDEWALK.
- EXPANSION JOINTS TO BE PLACED WHERE BUILDING FOUNDATION MEETS CONCRETE PAVEMENT OR SIDEWALK.
- ALL REQUIRED SELECT FILL TO BE PLACED IN 6" LIFTS WITH COMPACTION TO 95% PROCTOR.
- ALL CURB AND GUTTER TO BE BACKFILLED AND STABILIZED AS REQUIRED.
- ALL GRADING TO BE ESTABLISHED TO PROVIDE SURFACE TO DRAINAGE.
- ALL OBSTRUCTIONS BUILDINGS, POLES, WIRES, SLABS, FENCING, OR GUARD RAILS CONFLICTING WITH THE PROPOSED IMPROVEMENTS TO BE REMOVED, RELOCATED AND OR DISPOSED OF BY CONTRACTOR AS PER ENGINEERS WRITTEN INSTRUCTIONS.
- HANDICAP SIGNAGE TO CONFORM WITH FEDERAL REGULATIONS (A.D.A.).
- CONTRACTOR TO INCLUDE ALL STRIPING FOR PARKING LOTS, STREETS & ROADWAYS.
- CIVIL ENGINEER WILL NOT PROVIDE CONSTRUCTION STAKING ON (ON-SITE) IMPROVEMENTS.
- CONTRACTOR TO GRADE SWALES AS REQUIRED FROM SIDEWALK DRAINAGE OPENINGS, FIRE LANES, CULVERTS AND CURB SLOTS TO INLETS.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION AND SEDIMENT CONTROL THROUGHOUT THE DURATION OF THE CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE SWPPP AS PART OF PERMITTING PROCES.

GENERAL NOTES

SCALE: NTS



HEFFNER DESIGN TEAM, PLLC
aheffner@heffnerdesignteam.com
4814 N. 11TH ST. SUITE E
MCALLEN, TX. 78504
(956) 540-7850

SOUTH SIDE PARK - B
SAN BENITO, TX

PROJECT:

DATE	DESCRIPTION	ISSUED FOR CONSTRUCTION	REVISION #1
10-04-2018			
10-31-2018			



DATE: 10-31-18

SHEET TITLE:
EXISTING
CONDITIONS

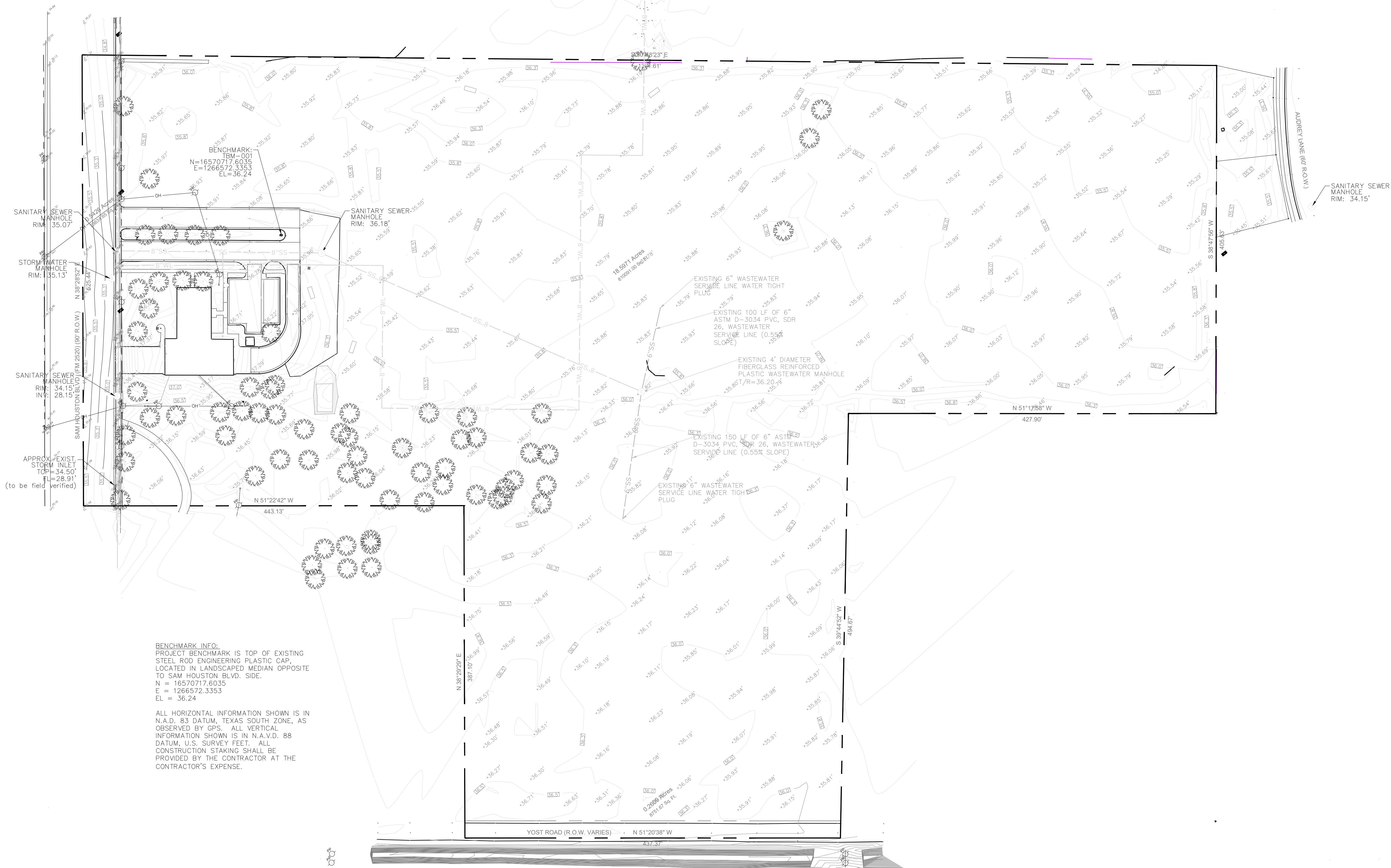
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PROJECT NUMBER:

17-108

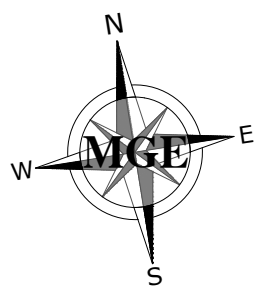
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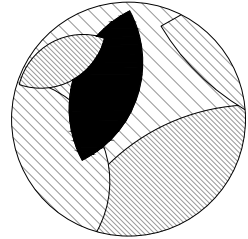


BENCHMARK INFO:
PROJECT BENCHMARK IS TOP OF EXISTING
STEEL ROD ENGINEERING PLASTIC CAP,
LOCATED IN LANDSCAPED MEDIAN OPPOSITE
TO SAM HOUSTON BLVD. SIDE.
N = 16570717.6035
E = 1266572.3353
EL = 36.24

ALL HORIZONTAL INFORMATION SHOWN IS IN
N.A.D. 83 DATUM, TEXAS SOUTH ZONE, AS
OBSERVED BY GPS. ALL VERTICAL
INFORMATION SHOWN IS IN N.A.V.D. 88
DATUM, U.S. SURVEY FEET. ALL
CONSTRUCTION STAKING SHALL BE
PROVIDED BY THE CONTRACTOR AT THE
CONTRACTOR'S EXPENSE.



EXISTING CONDITION
SCALE: 1"=60'



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PROJECT:
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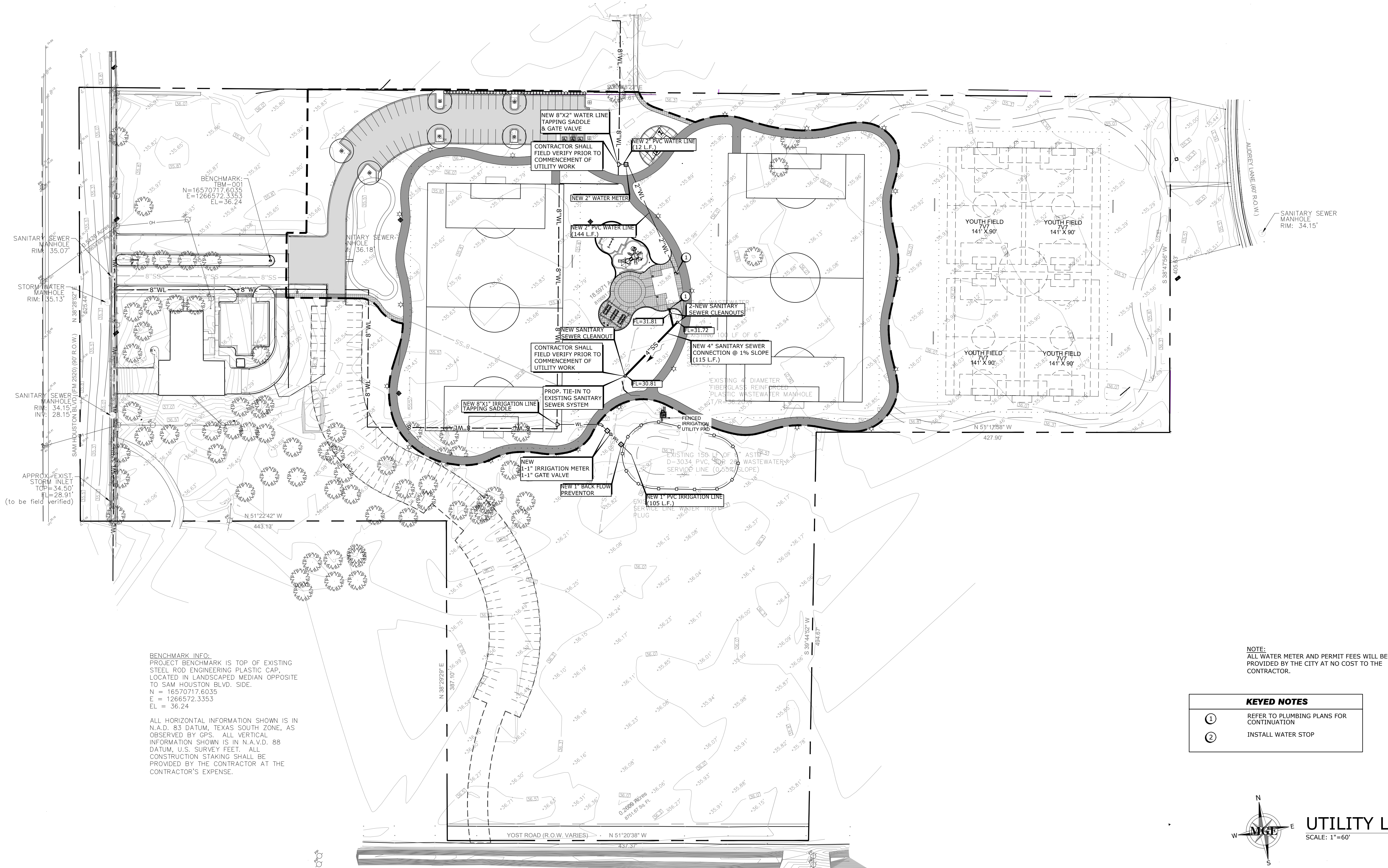
SHEET TITLE:
UTILITY LAYOUT

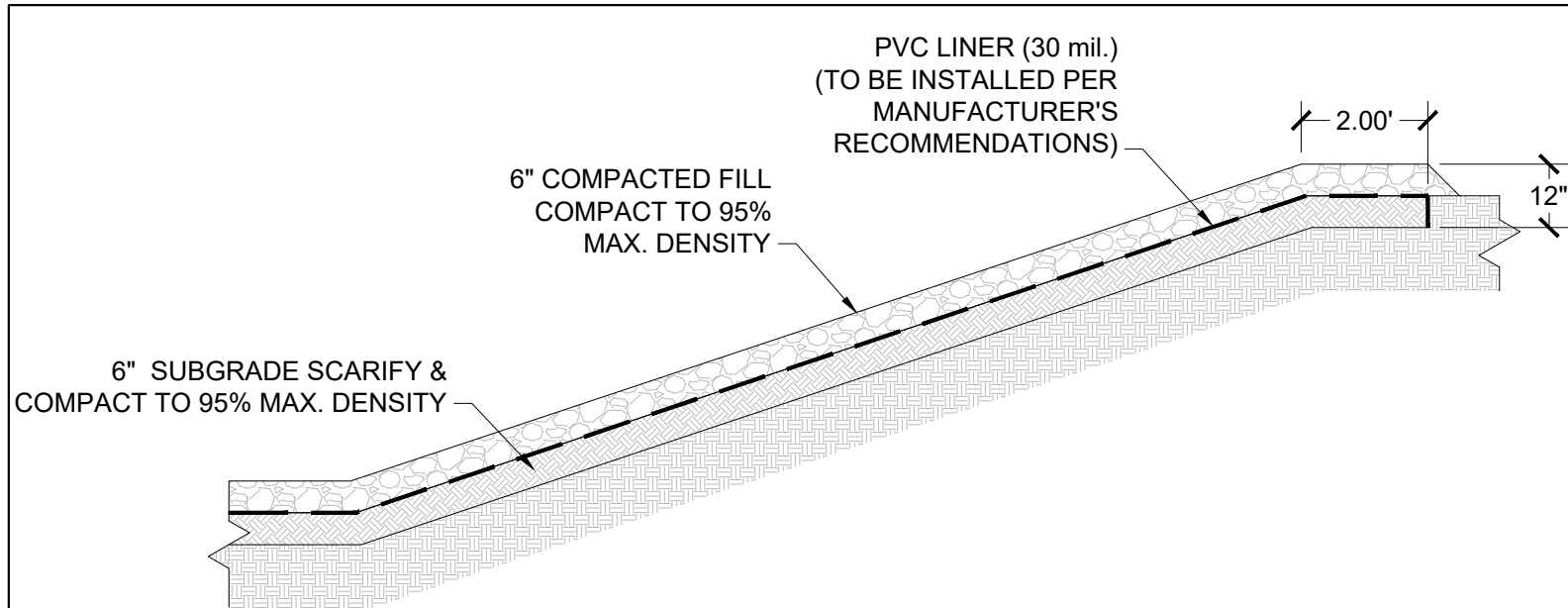
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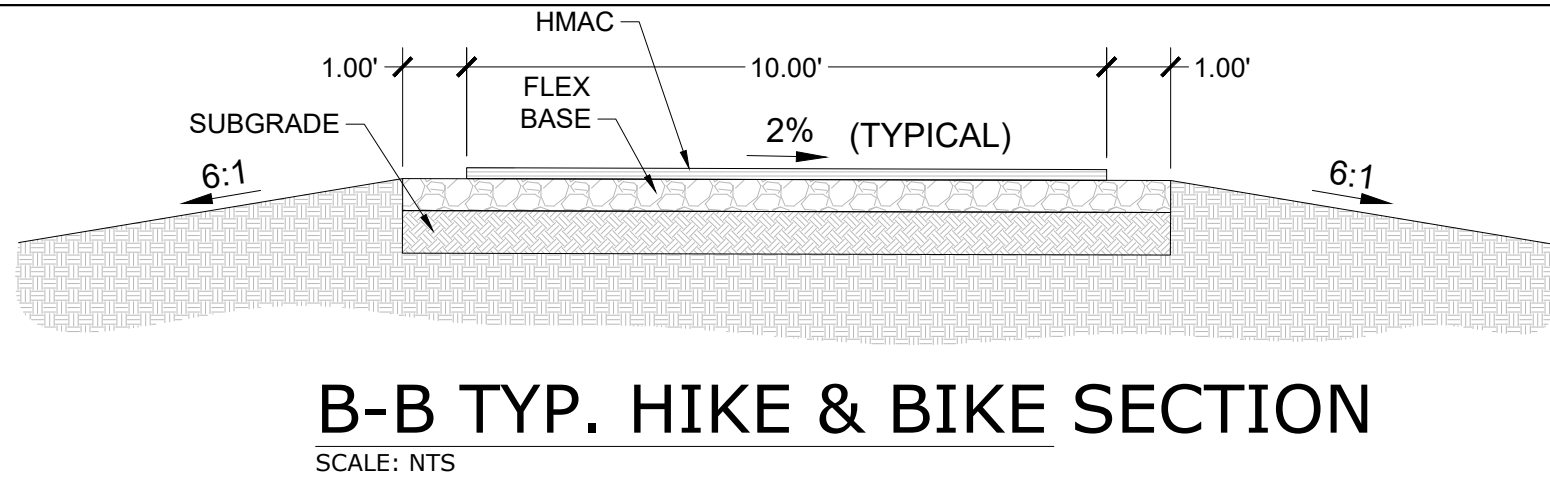
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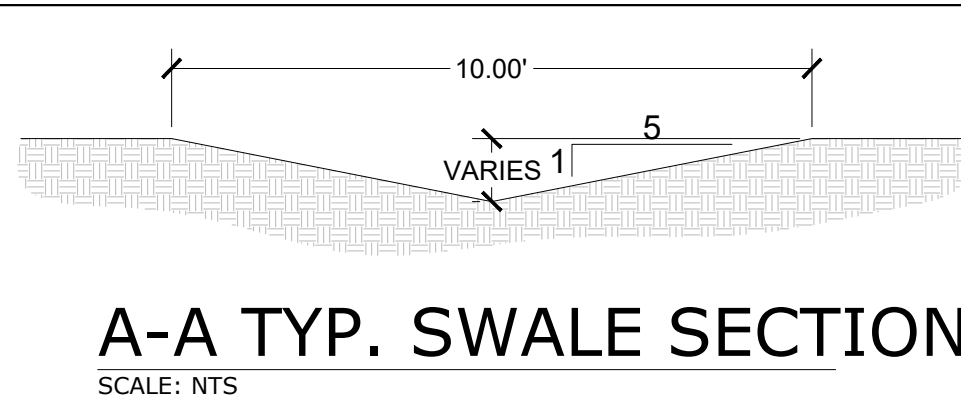




C-C TYP. DETENTION SECTION
SCALE: NTS



B-B TYP. HIKE & BIKE SECTION
SCALE: NTS

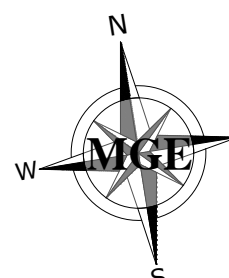
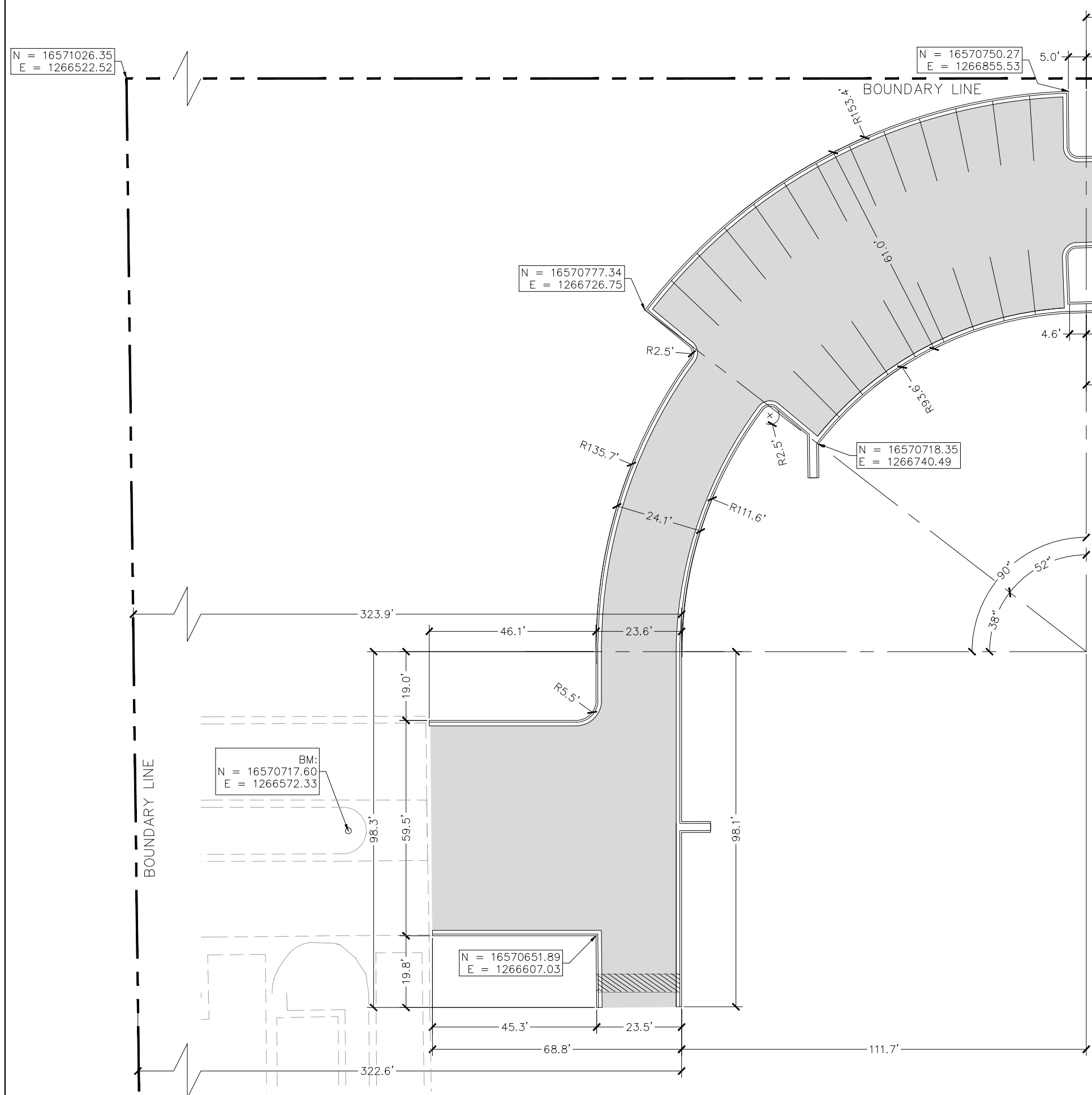
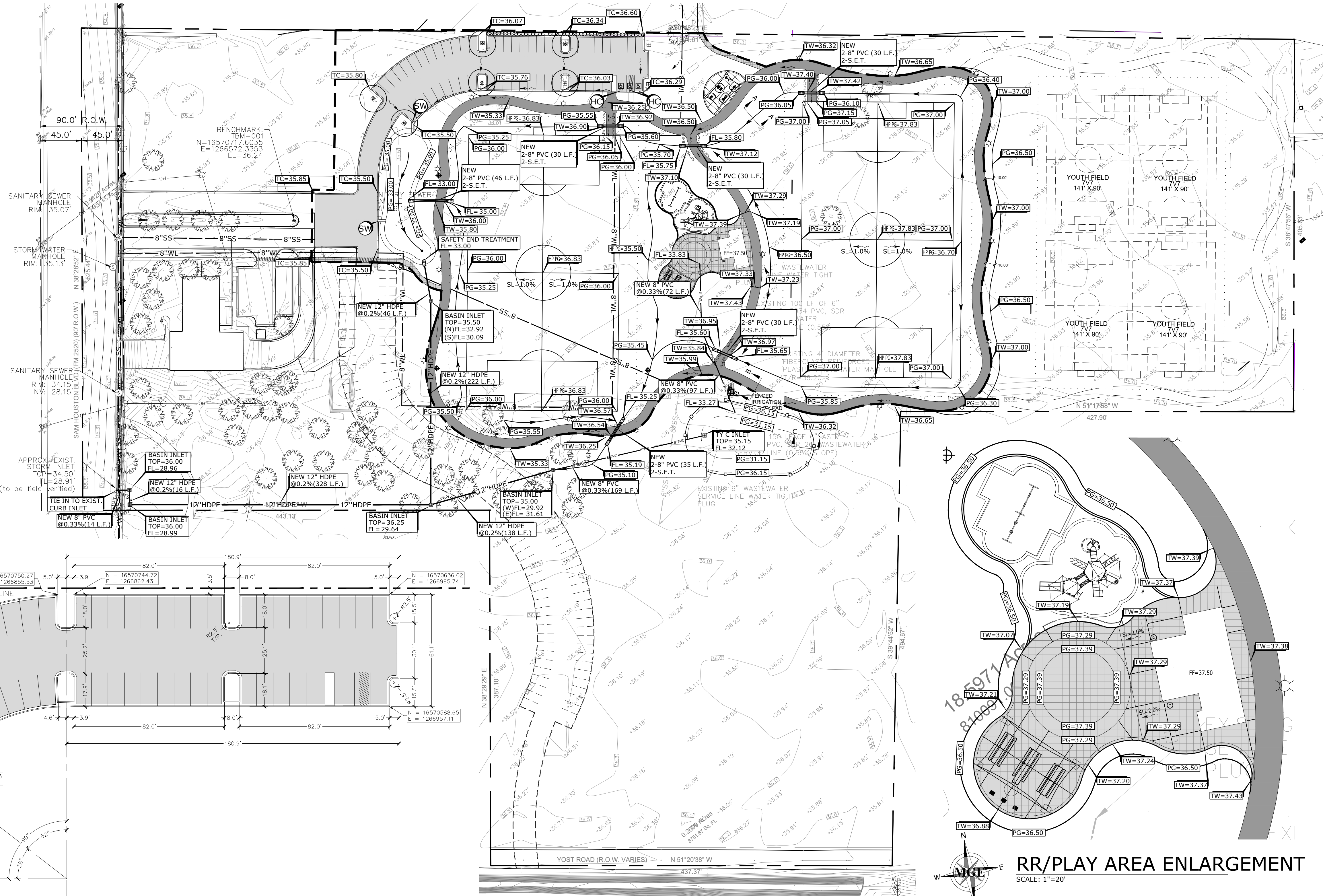


A-A TYP. SWALE SECTION
SCALE: NTS

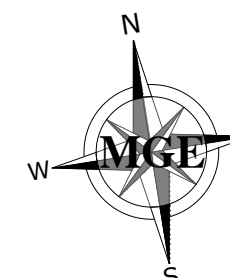
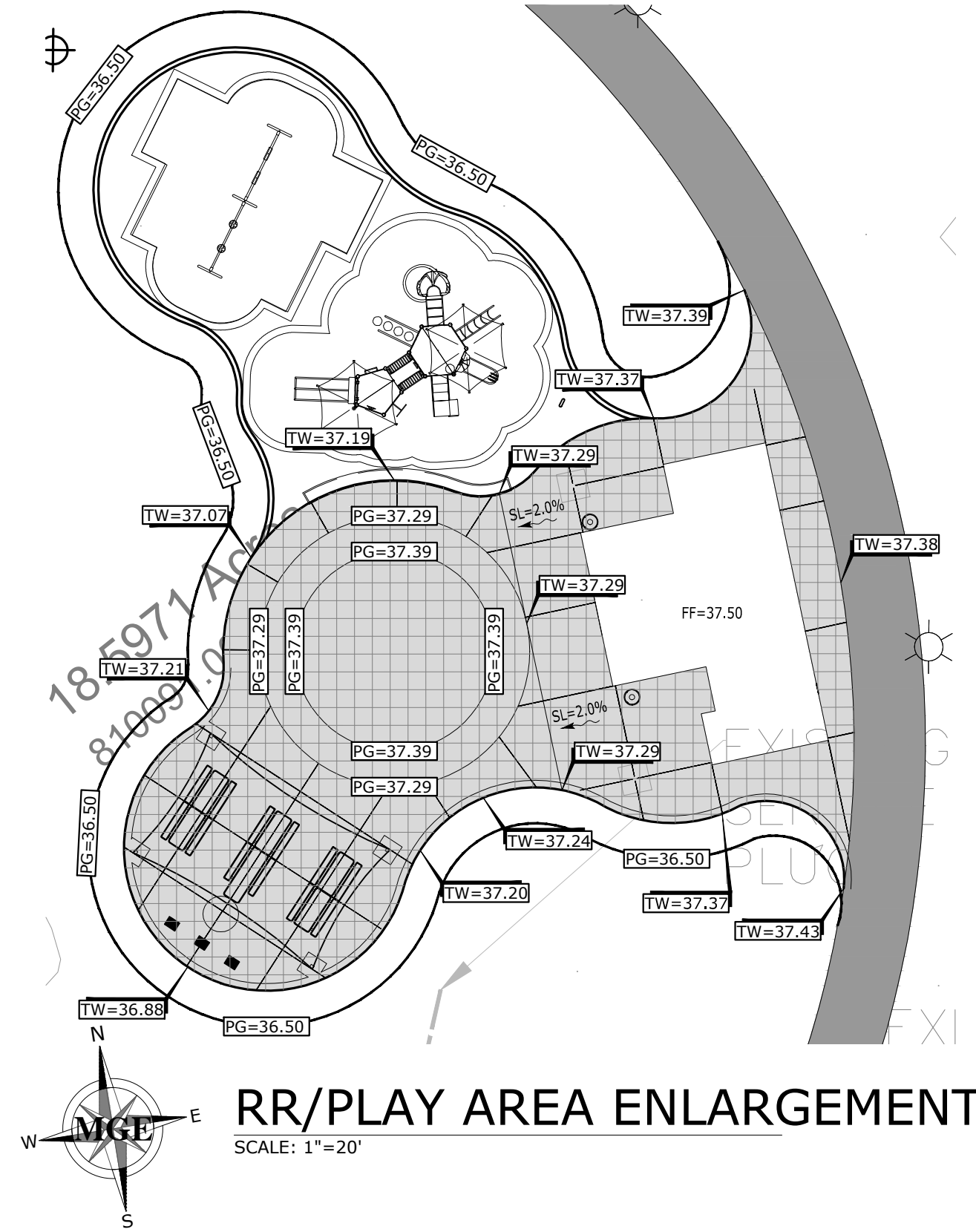
GENERAL NOTE:
1. REFER TO LANDSCAPE SHEET FOR JOINT PATTERN AT RESTROOM.

LEGEND	
	NEW LIGHT DUTY ASPHALT PAVEMENT
	NEW LIGHT DUTY ASPHALT HIKE & BIKE TRAIL
	NEW LIGHT DUTY CONCRETE SIDEWALK
	NEW TOP OF CURB ELEVATION
	NEW TOP OF WALK ELEVATION
	NEW TOP OF PAVEMENT ELEVATION
	NEW TOP OF INLET ELEVATION
	NEW FLOW LINE ELEVATION
	NEW PROPOSED GRADE ELEVATION
	NEW DIRECTION OF RUN-OFF
	PROPOSED STORM SEWER LINE
	NEW PROPOSED CONC. SPILLWAY
	NEW ADA SIGN
	NEW SAFETY END TREATMENT
	NEW PROPOSED DETENTION POND
	HIGH POINT

BENCHMARK INFO:
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PARKING LOT DIMENSIONAL PLAN
SCALE: 1"=20'



PAVING & GRADING LAYOUT
SCALE: 1"=60'

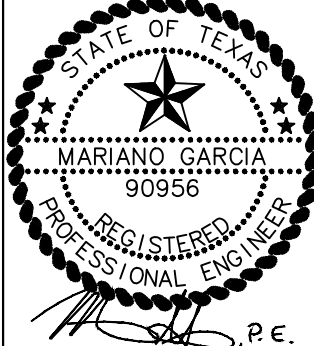
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SOUTH SIDE PARK - B
SAN BENITO, TX

PROJECT:

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DATE: 10-31-18

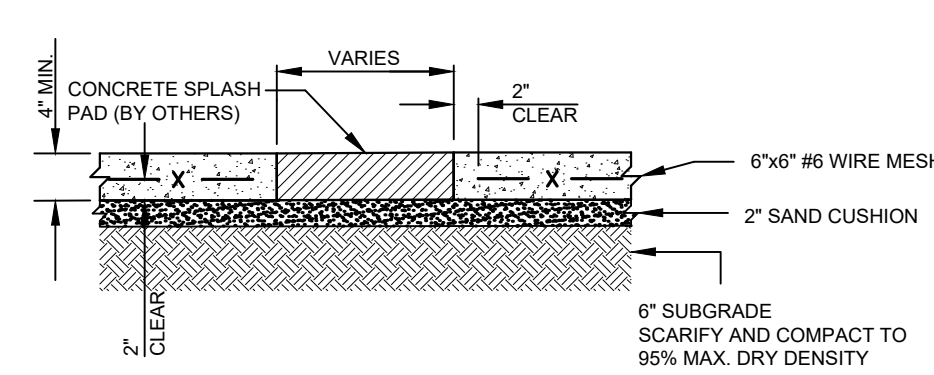
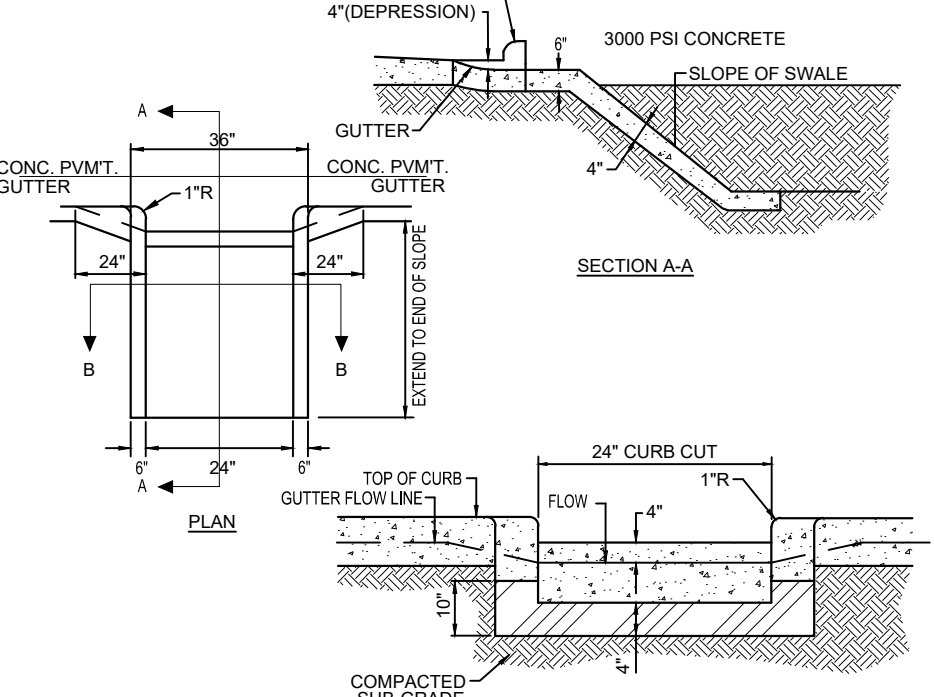
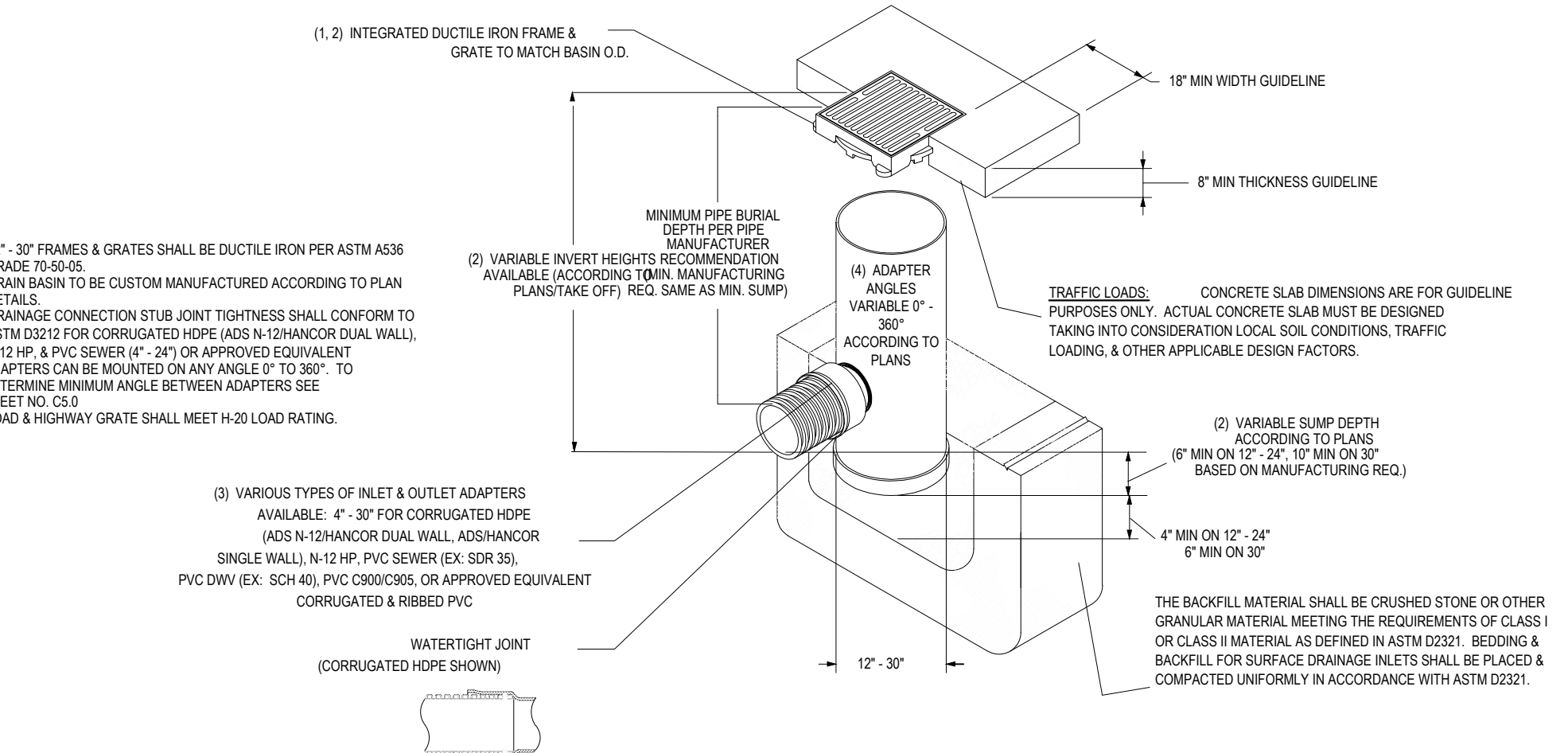
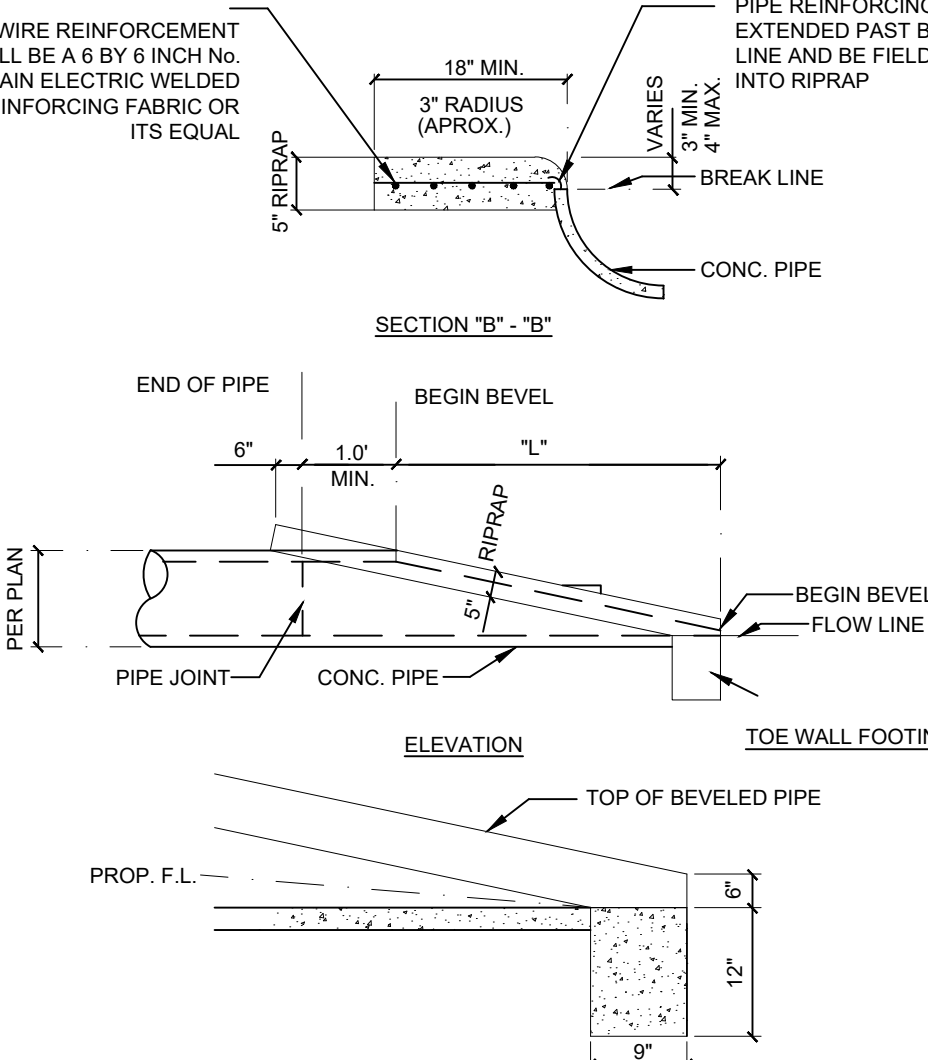
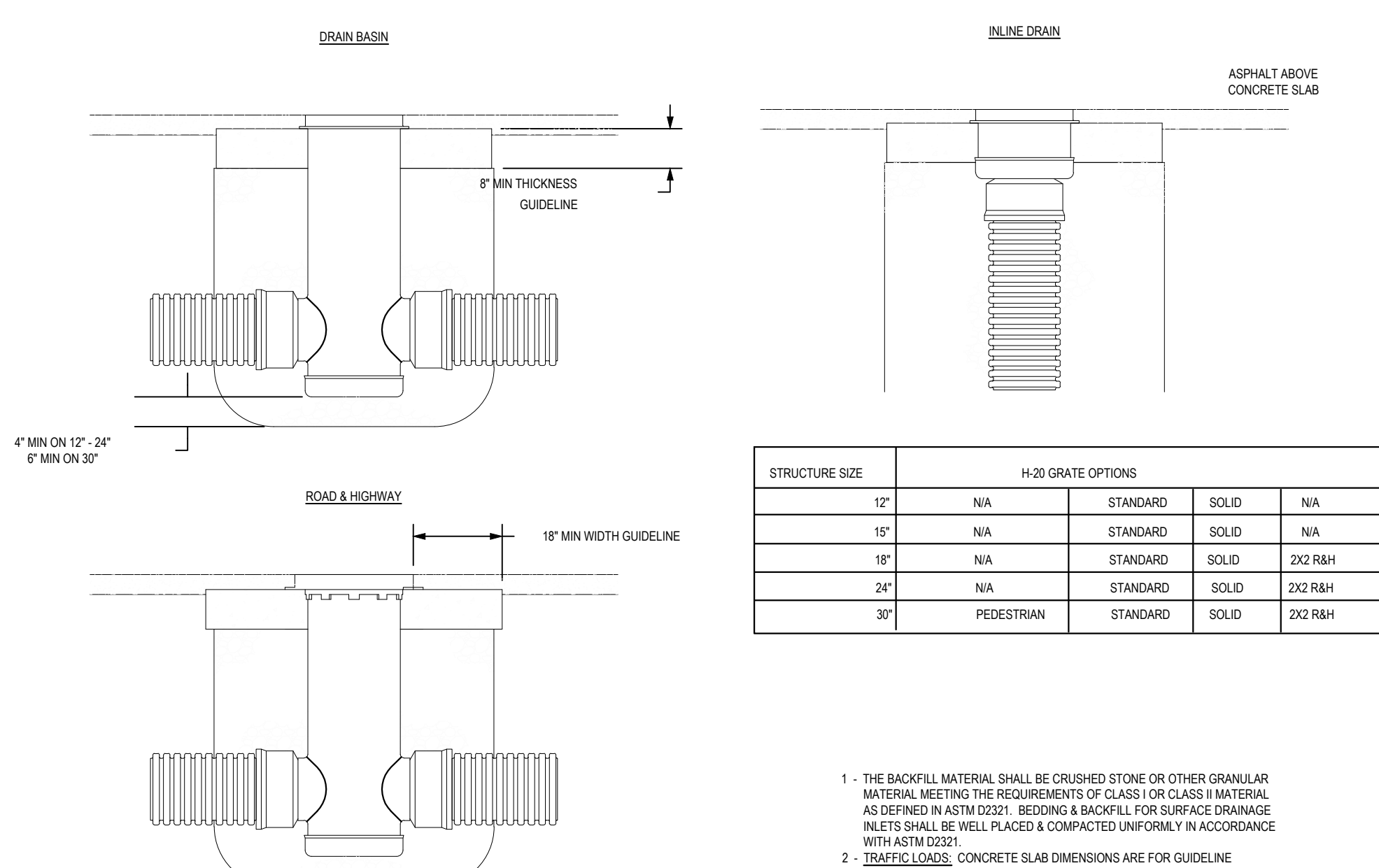
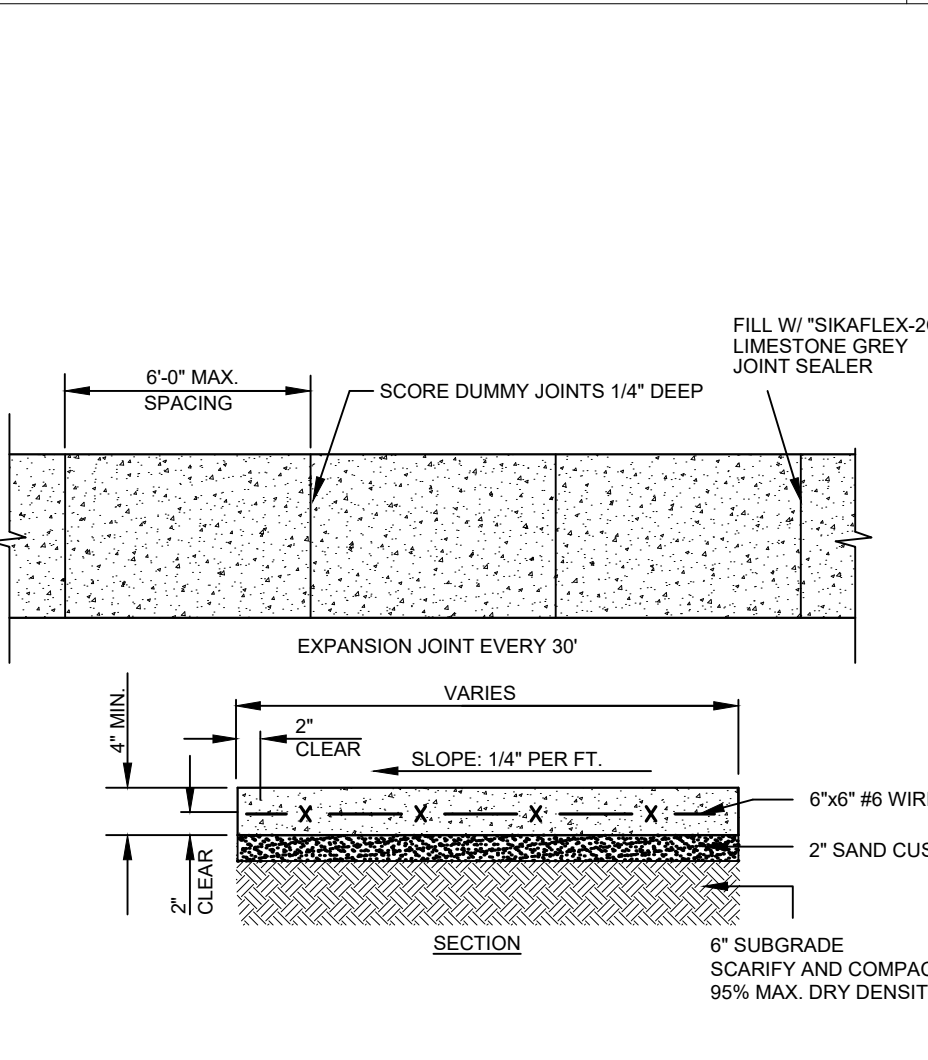
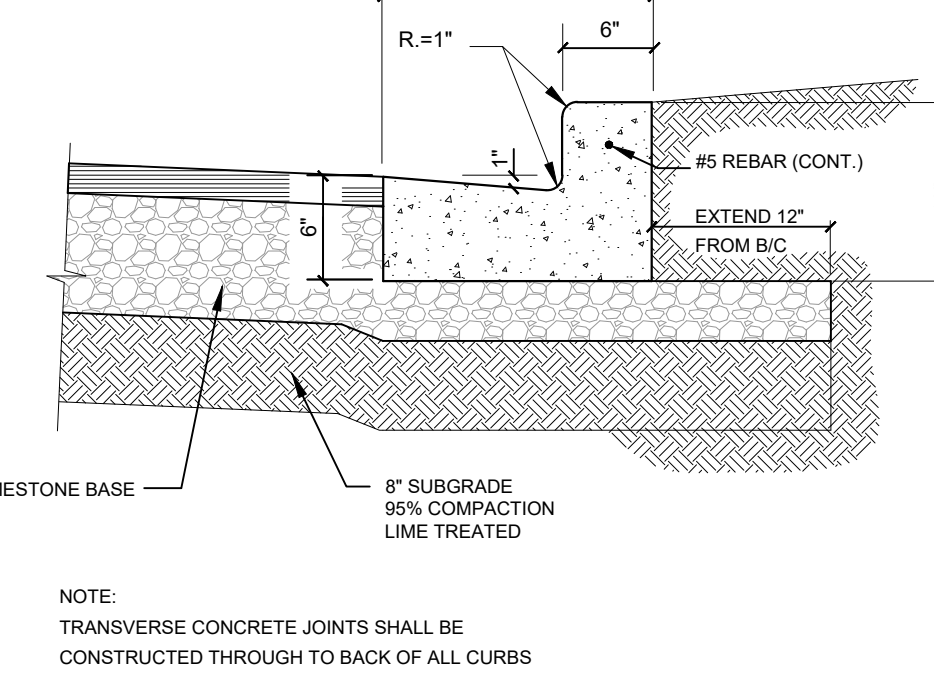
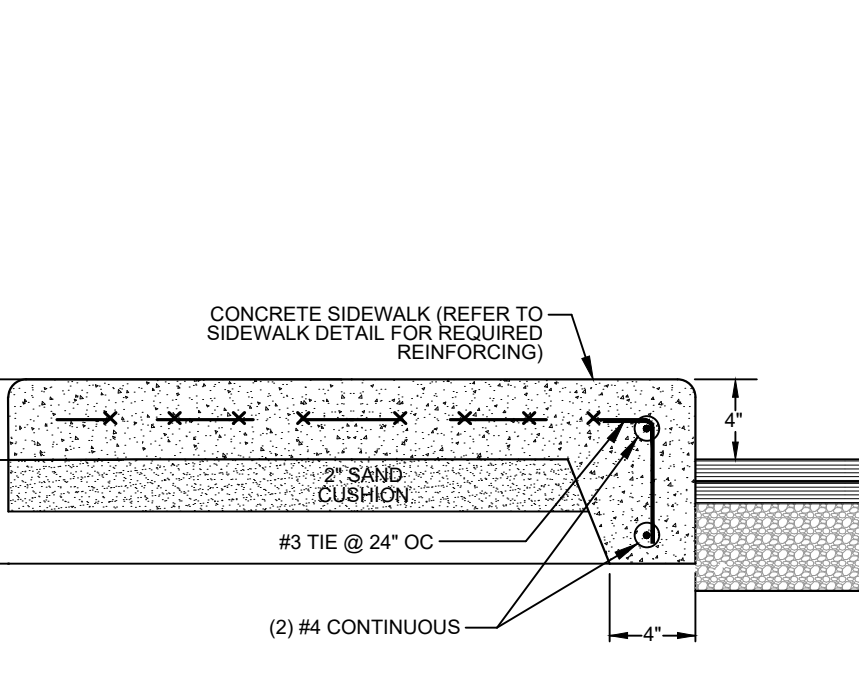
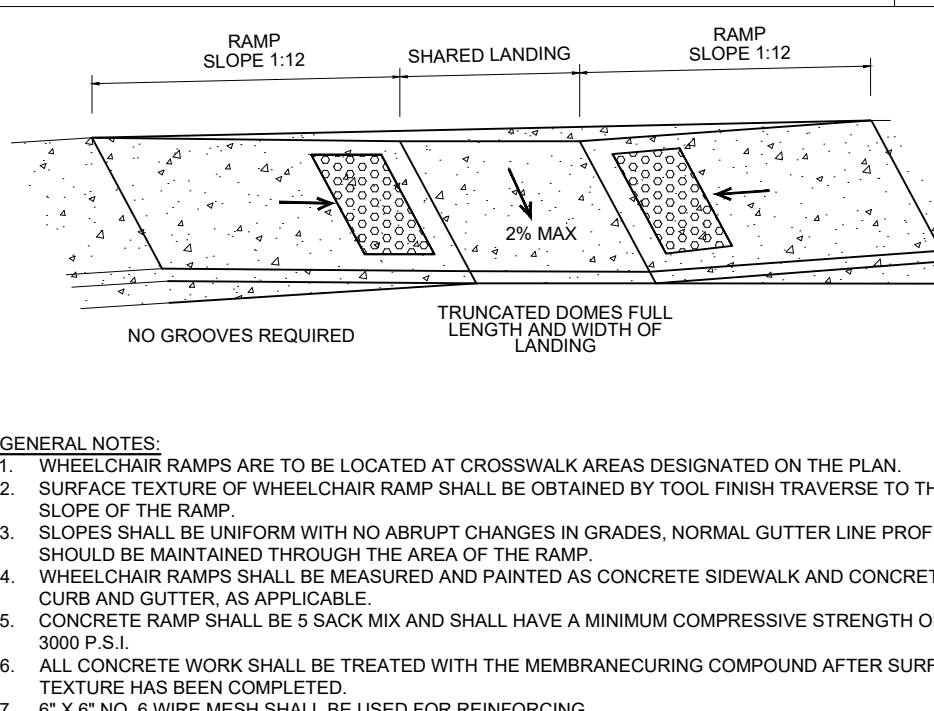
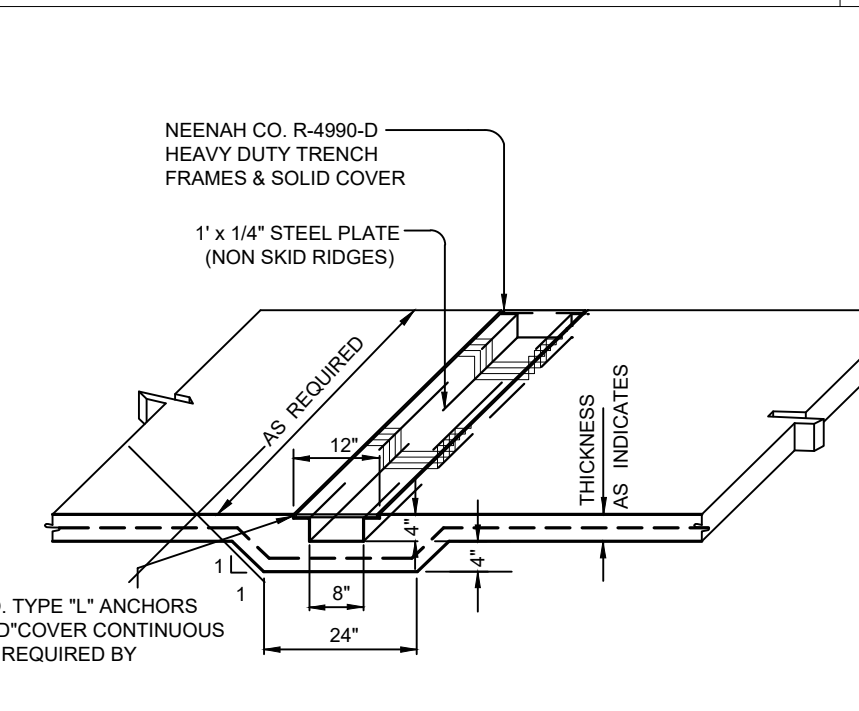
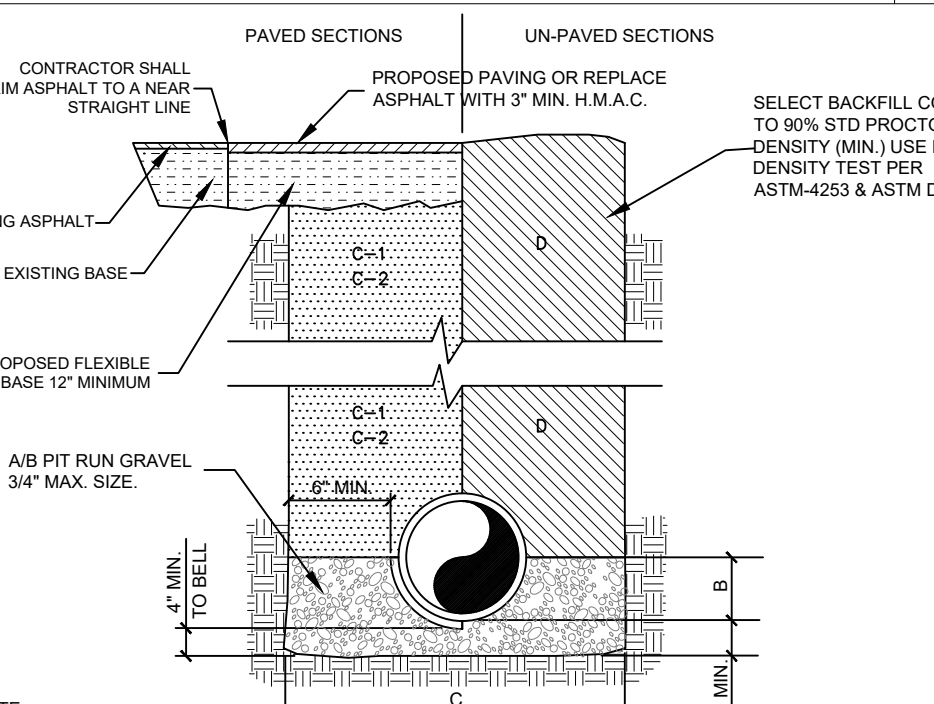
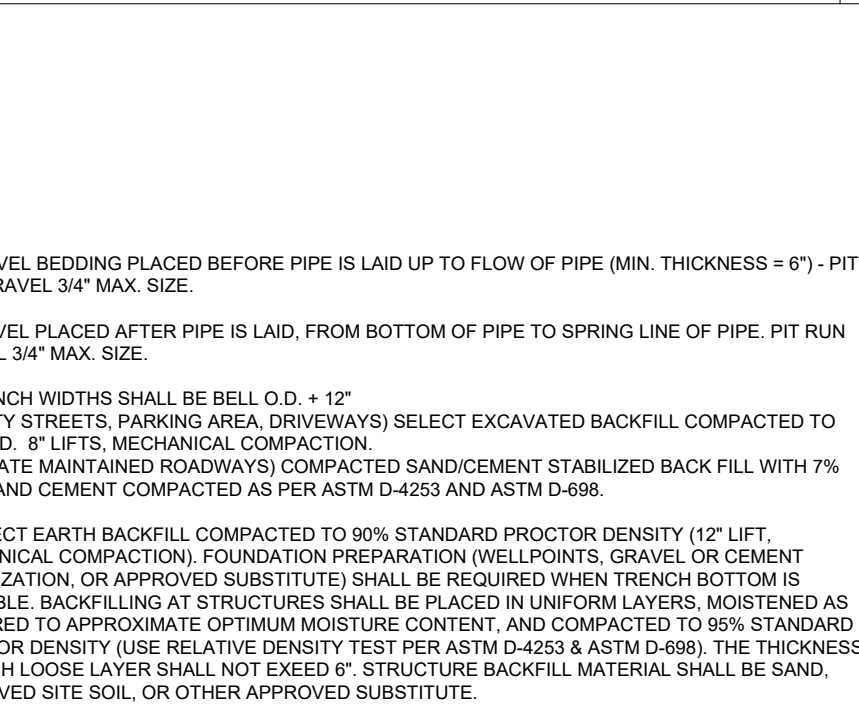
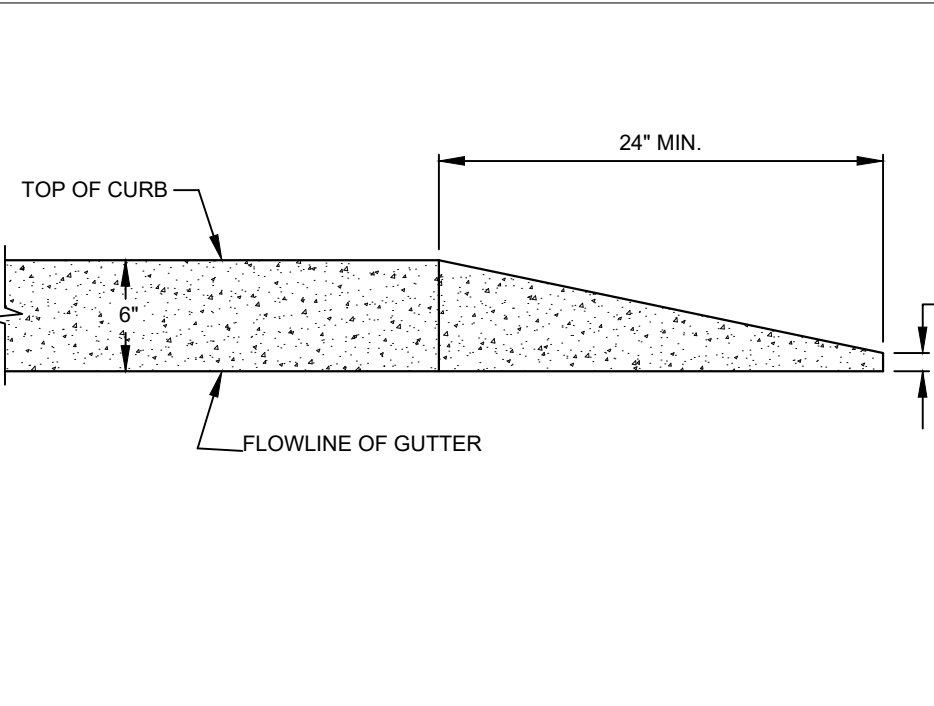
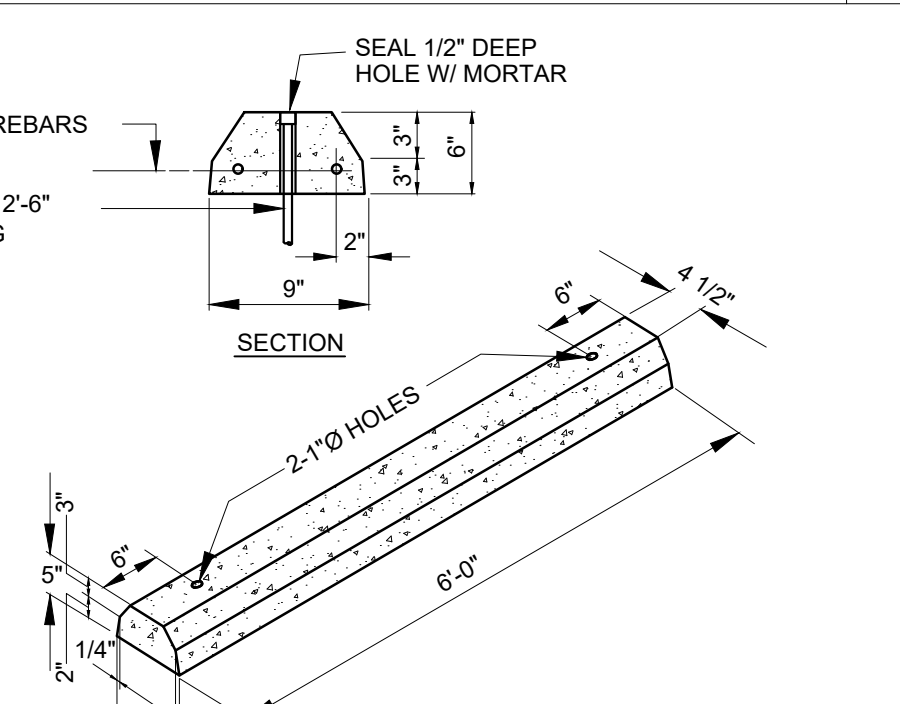
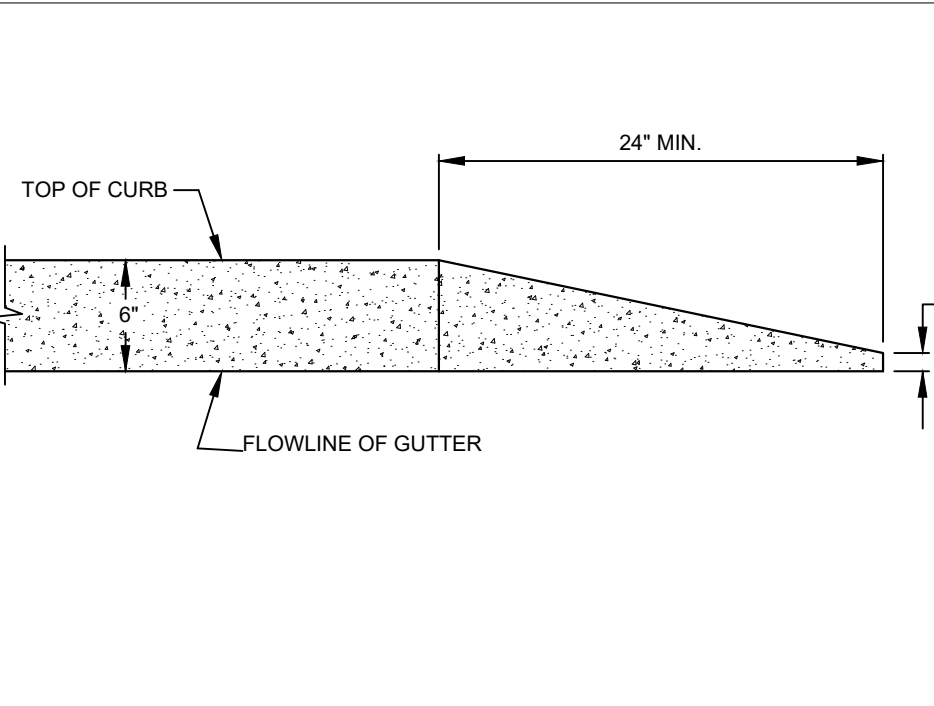
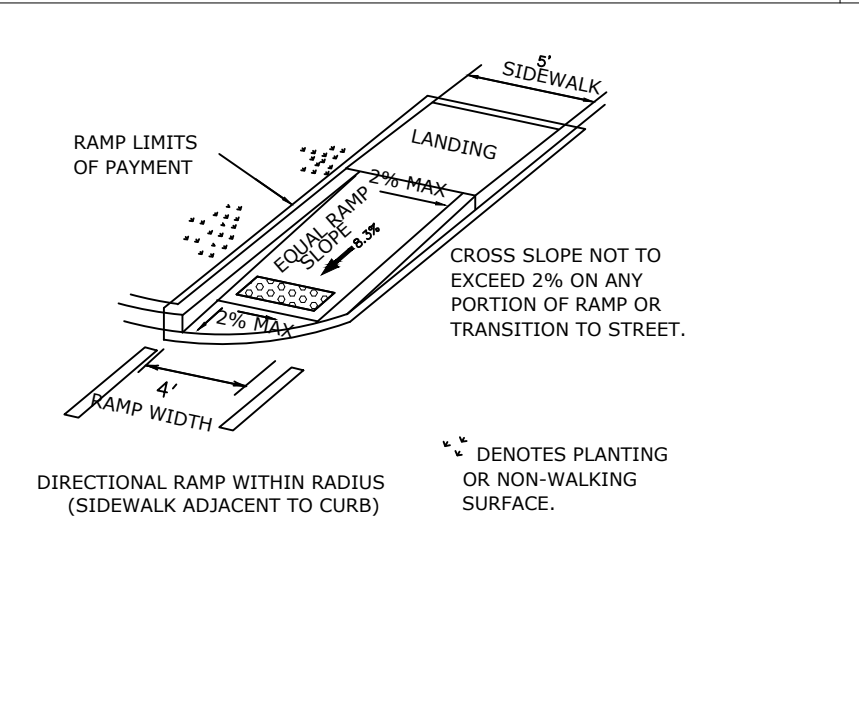
SHEET TITLE:
PAVING & GRADING LAYOUT

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PROJECT NUMBER:
17-108

SHEET NUMBER:

C4.0

 SIDEWALK NOTES: - MINIMUM 5'-0" WIDE SIDEWALK. - SIDEWALK GRADIENT SHALL NOT EXCEED 1:20. - SIDEWALK CONCRETE SHALL BE 5 SACK CEMENT MIX AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 psi. - CONTRACTOR SHALL VERIFY EXISTENCE AND LOCATION OF EXISTING UTILITY LINES WITH APPROPRIATE COMPANIES TO AVOID PLACING SIDEWALKS ON TOP OF LINES. - PROVIDE DROP CURBS AT INTERSECTIONS. - CONTRACTOR SHALL COMPLY WITH LATEST REGULATIONS AS SET FORTH IN AMERICANS WITH DISABILITIES ACT (ADA). - WHERE ADJACENT TO PAVEMENT, PROVIDE A THICKENED EDGE 8 (EIGHT) INCHES DEEP AND 6 (SIX) INCHES WIDE REINFORCED WITH NO. 3 REBAR. - PROVIDE EXPANSION JOINT MATERIAL WHERE SIDEWALK MEETS NEW AND EXISTING BUILDING OR SPLASH PAD. DOWEL PROPOSED SIDEWALK TO SPLASH PAD & CONCESSION STAND/RESTROOMS. DOWELS SHALL BE #4 REBAR X 12" @ 12' O.C.		18			15																														
 (1,2) INTEGRATED DUCTILE IRON FRAME & GRATE TO MATCH BASIN O.D. (3) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: 4" - 30" FOR CORRUGATED HDPE (ADS N-12) ANCHOR DUAL WALL, ADS HANCOCK SINGLE WALL, N-12 HP, PVC SEWER (EX. SDR 35), PVC DWV (EX. SDR 40), PVC CONDOR, OR APPROVED EQUIVALENT CORRUGATED & RIBBED PVC (4) ADAPTER ANGLES VARIABLE 0° - 360° ACCORDING TO PLANS (5) ROAD & HIGHWAY GRATE SHALL MEET H-20 LOAD RATING.		16	 WIRE REINFORCEMENT SHALL BE A 6 BY 9 INCH NO. 6 PLAIN ELECTRIC WELDED REINFORCING FABRIC OR ITS EQUAL PIPE REINFORCING MAY EXTENDED PAST BREAK LINE AND BE FIELD BENT INTO RIPRAP CONCRETE SLAB DIMENSIONS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, & OTHER APPLICABLE DESIGN FACTORS. THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I OR CLASS II MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.		13																														
 STRUCTURE SIZE <table><thead><tr><th>STRUCTURE SIZE</th><th colspan="4">H-20 GRATE OPTIONS</th></tr></thead><tbody><tr><td>12"</td><td>N/A</td><td>STANDARD</td><td>SOLID</td><td>N/A</td></tr><tr><td>15"</td><td>N/A</td><td>STANDARD</td><td>SOLID</td><td>N/A</td></tr><tr><td>18"</td><td>N/A</td><td>STANDARD</td><td>SOLID</td><td>2X2 R&H</td></tr><tr><td>24"</td><td>N/A</td><td>STANDARD</td><td>SOLID</td><td>2X2 R&H</td></tr><tr><td>30"</td><td>PEDESTRIAN</td><td>STANDARD</td><td>SOLID</td><td>2X2 R&H</td></tr></tbody></table> 1 - THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I OR CLASS II MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE WELL PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321. 2 - TRAFFIC LOADS: CONCRETE SLAB DIMENSIONS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, & OTHER APPLICABLE DESIGN FACTORS.		STRUCTURE SIZE	H-20 GRATE OPTIONS				12"	N/A	STANDARD	SOLID	N/A	15"	N/A	STANDARD	SOLID	N/A	18"	N/A	STANDARD	SOLID	2X2 R&H	24"	N/A	STANDARD	SOLID	2X2 R&H	30"	PEDESTRIAN	STANDARD	SOLID	2X2 R&H	17	 SIDEWALK NOTES: - MINIMUM 5'-0" WIDE SIDEWALK. - SIDEWALK GRADIENT SHALL NOT EXCEED 1:20. - SIDEWALK CONCRETE SHALL BE 5 SACK CEMENT MIX AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 psi. - CONTRACTOR SHALL VERIFY EXISTENCE AND LOCATION OF EXISTING UTILITY LINES WITH APPROPRIATE COMPANIES TO AVOID PLACING SIDEWALKS ON TOP OF LINES. - PROVIDE DROP CURBS AT INTERSECTIONS. - CONTRACTOR SHALL COMPLY WITH LATEST REGULATIONS AS SET FORTH IN AMERICANS WITH DISABILITIES ACT (ADA). - WHERE ADJACENT TO PAVEMENT, PROVIDE A THICKENED EDGE 8 (EIGHT) INCHES DEEP AND 6 (SIX) INCHES WIDE REINFORCED WITH NO. 3 REBAR. - PROVIDE EXPANSION JOINT MATERIAL WHERE SIDEWALK MEETS NEW AND EXISTING BUILDING OR SPLASH PAD. DOWEL PROPOSED SIDEWALK TO SPLASH PAD & CONCESSION STAND/RESTROOMS. DOWELS SHALL BE #4 REBAR X 12" @ 12' O.C.		14
STRUCTURE SIZE	H-20 GRATE OPTIONS																																		
12"	N/A	STANDARD	SOLID	N/A																															
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 NOTE: TRANSVERSE CONCRETE JOINTS SHALL BE CONSTRUCTED THROUGH TO BACK OF ALL CURBS		9	 NOTE: CONCRETE SIDEWALK (REFER TO SIDEWALK DETAIL FOR REQUIRED REINFORCING)		4																														
 GENERAL NOTES: - WHEELCHAIR RAMPS ARE TO BE LOCATED AT CROSSWALK AREAS DESIGNATED ON THE PLAN. - SURFACE TEXTURE OF WHEELCHAIR RAMP SHALL BE OBTAINED BY TOOL FINISH TRAVERSE TO THE SLOPE OF THE RAMP. - SLOPES SHALL BE UNIFORM WITH NO ABRUPT CHANGES IN GRADES. NORMAL GUTTER LINE PROFILE SHOULD BE MAINTAINED THROUGH THE AREA OF THE RAMP. - WHEELCHAIR RAMPS SHALL BE MEASURED AND PAINTED AS CONCRETE SIDEWALK AND CONCRETE CURB AND GUTTER, AS APPLICABLE. - CONCRETE RAMP SHALL BE 5 SACK MIX AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I. - ALL CONCRETE WORK SHALL BE TREATED WITH THE MEMBRANECURING COMPOUND AFTER SURFACE TEXTURE HAS BEEN COMPLETED. 6" X 6" NO. 6 WIRE MESH SHALL BE USED FOR REINFORCING. - ALL RAMPS SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, DARK VERSUS LIGHT. THE MATERIAL USED TO PROVIDE THE CONTRAST SHALL BE AN INTEGRAL PART OF THE RAMP.		10	 NEENAH CO. R-4990-D HEAVY DUTY TRENCH FRAMES & SOLID COVER 1' x 1/4" STEEL PLATE (NON SKID RIDGES) THICKNESS AS INDICATES NEENAH CO. TYPE "L" ANCHORS AND TYPE "D" COVER CONTINUOUS LENGTH AS REQUIRED BY SIDEWALK		5																														
 NOTE: BEDDING FOR PVC SHALL BE IN ACCORDANCE WITH ASTM 2321.		11	 NOTE: TRANSVERSE CONCRETE JOINTS SHALL BE CONSTRUCTED THROUGH TO BACK OF ALL CURBS		6																														
 NOTE: RAMP LIMITS OF PAYMENT		7	 2-#3 REBARS #6 @ 2'-6" LONG		3																														
 NOTE: RAMP LIMITS OF PAYMENT		12	 CROSS SLOPE NOT TO EXCEED 2% ON ANY PORTION OF RAMP OR TRANSITION TO STREET. ** DENOTES PLANTING OR NON-WALKING SURFACE.		8																														
 NOT USED			 NOT USED																																

M GARCIA
ENGINEERING
LLC

CIVIL ENGINEERING

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PROJECT:
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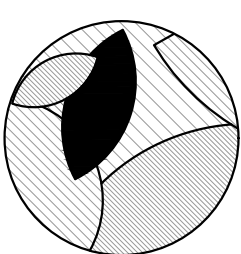
STATE OF TEXAS
REGISTERED PROFESSIONAL ENGINEER
MARIANO GARCIA
90956
10-31-18
DATE: 10-31-18

SHEET TITLE:
PAVING & GRADING DETAILS

PROJECT NUMBER:
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SHEET NUMBER:
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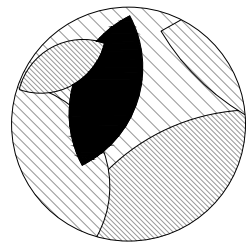
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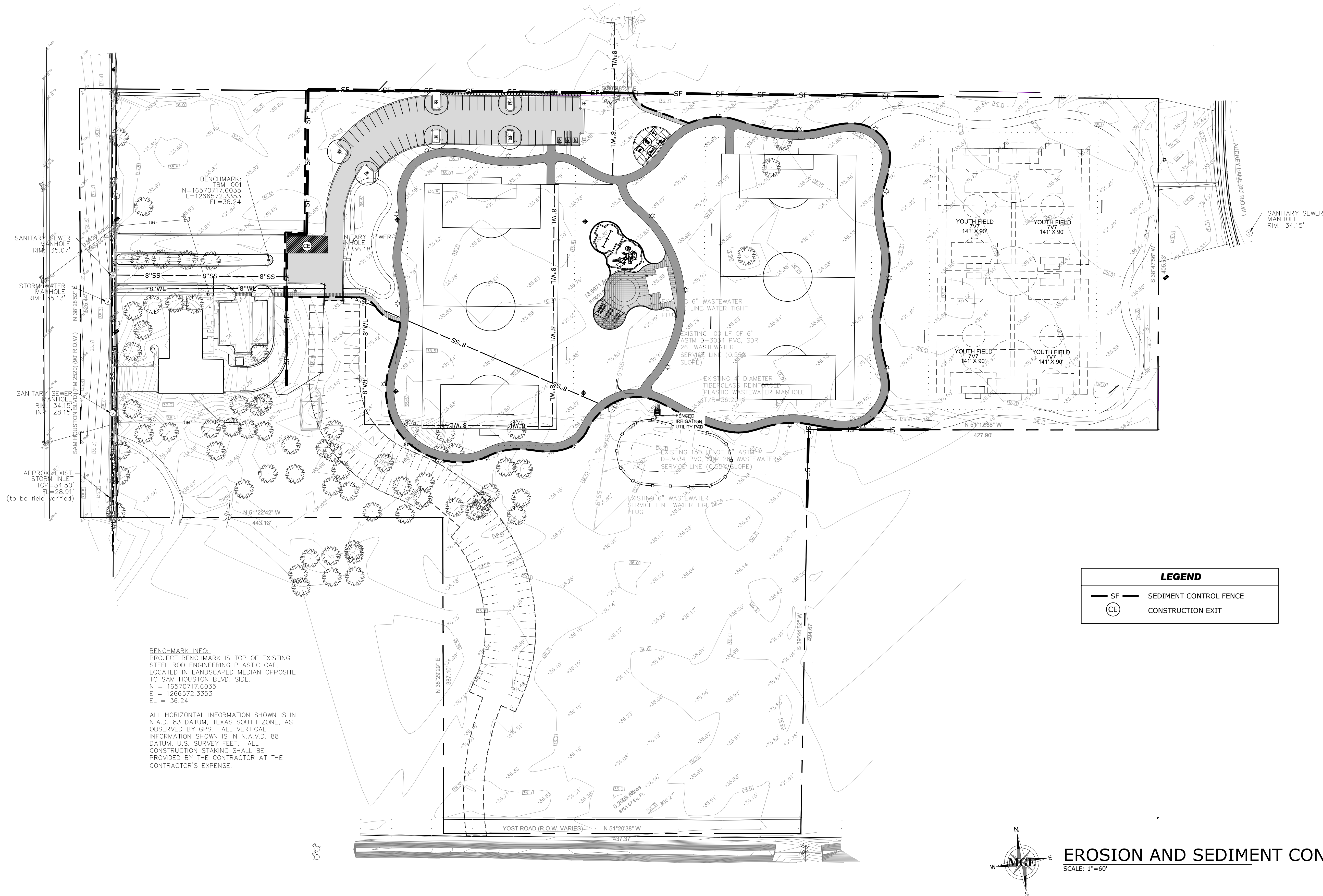
SHEET TITLE:
EROSION AND
SEDIMENT
CONTROL LAYOUT

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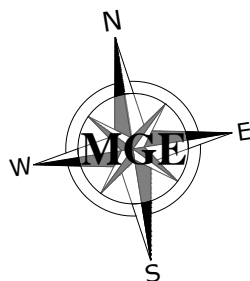
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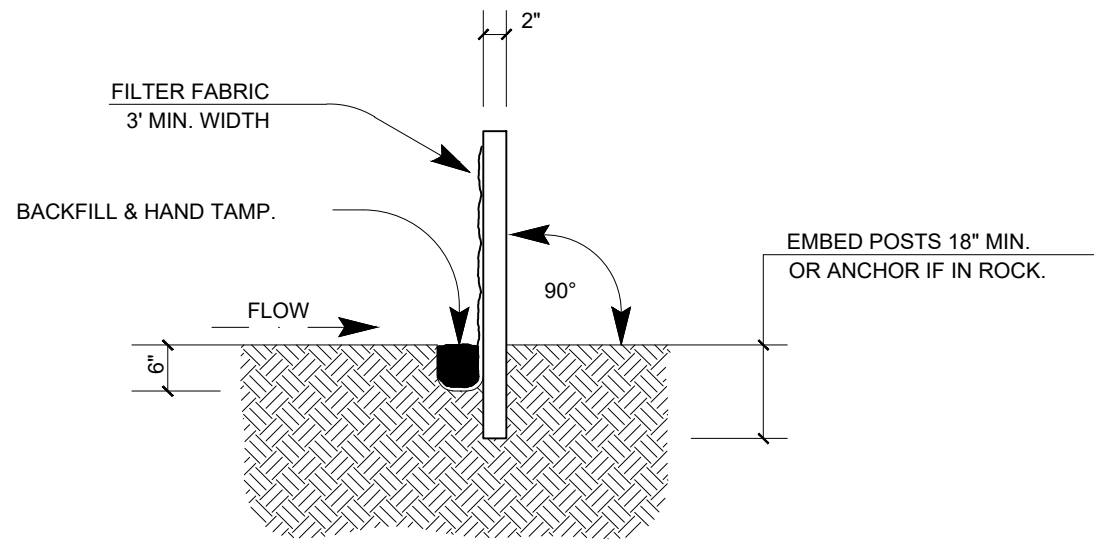
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LEGEND	
SF	SEDIMENT CONTROL FENCE
CE	CONSTRUCTION EXIT



EROSION AND SEDIMENT CONTROL LAYOUT
SCALE: 1"=60'



SECTION A-A

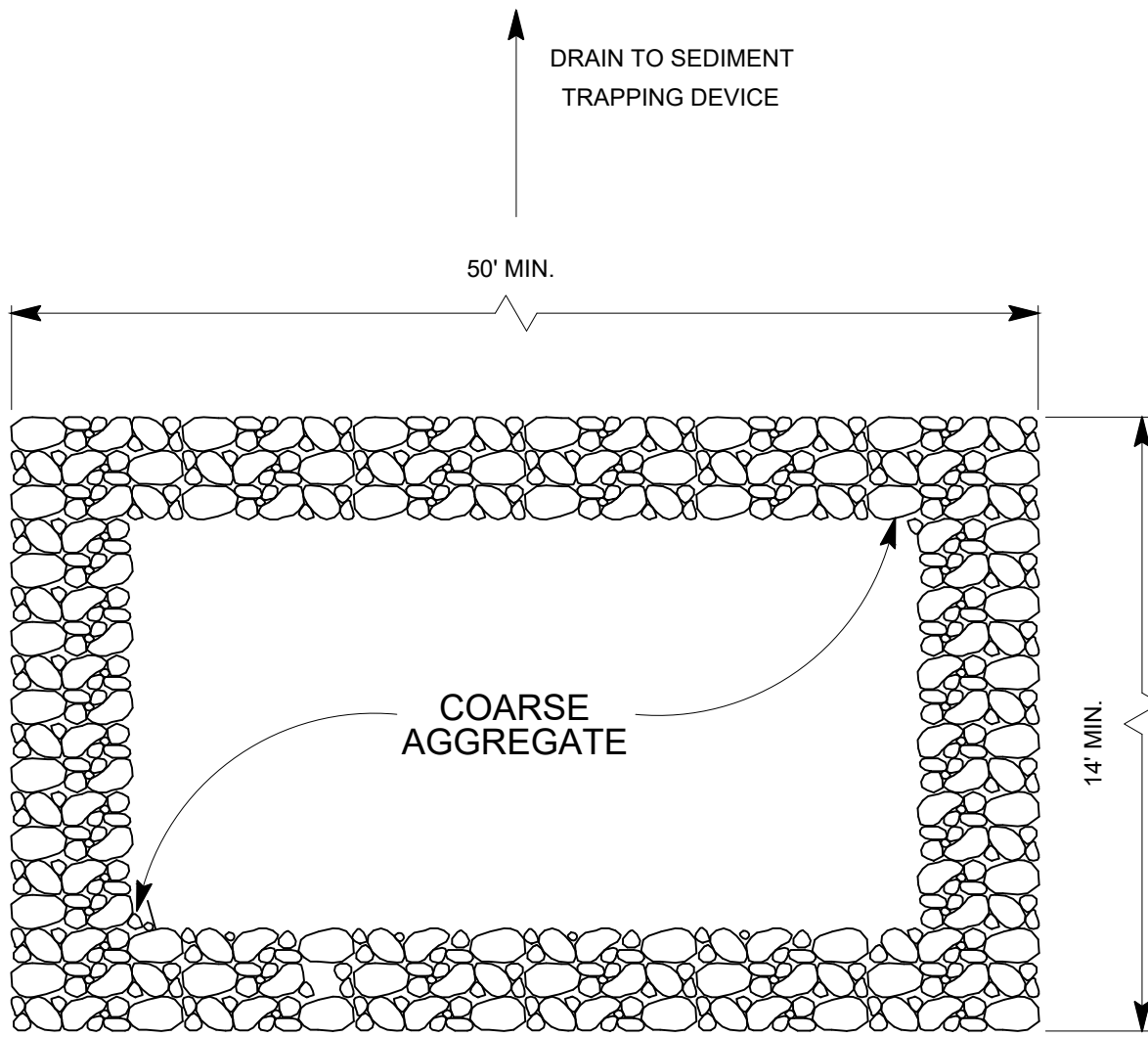
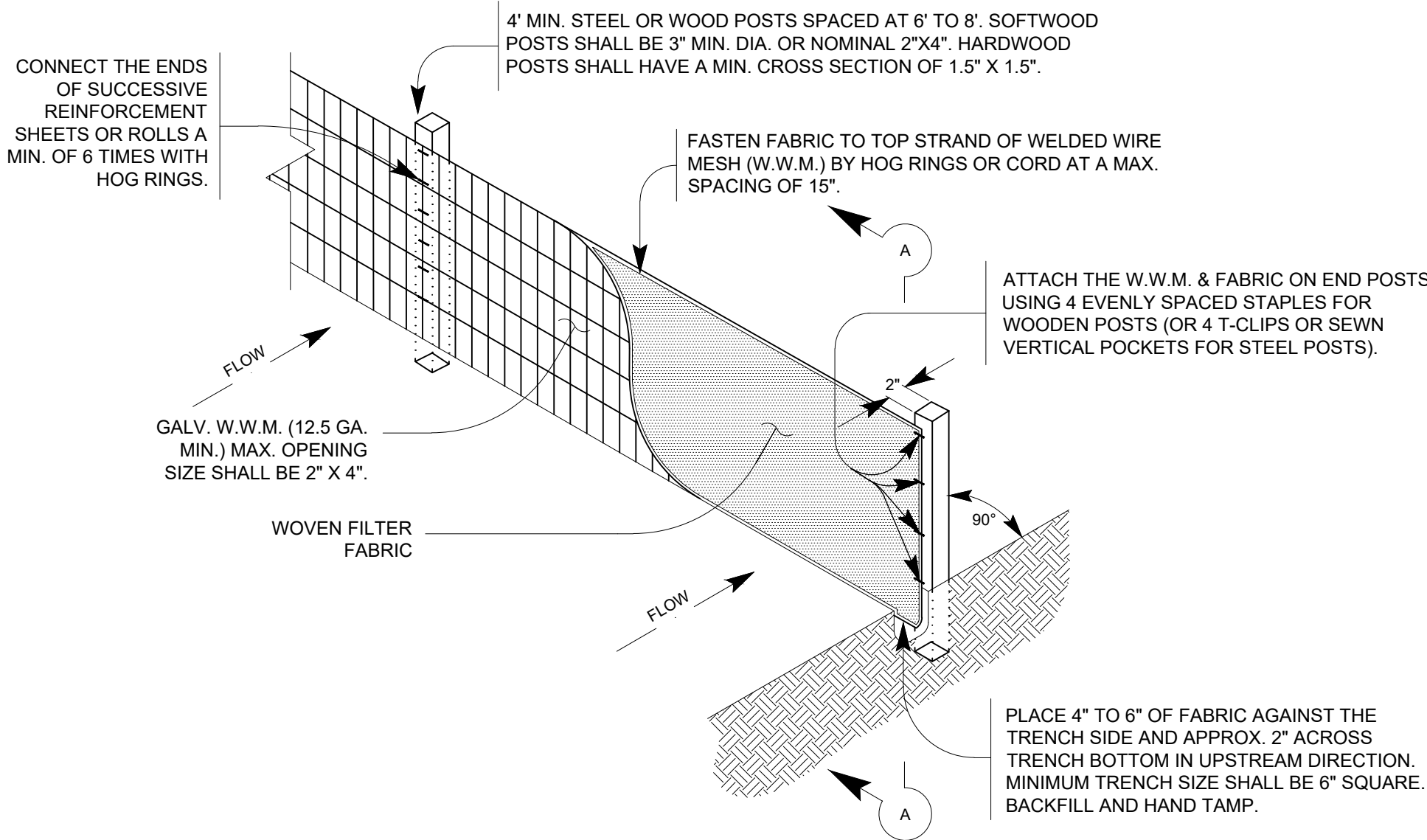
SEDIMENT CONTROL FENCE USAGE GUIDELINES

A SEDIMENT CONTROL FENCE MAY BE CONSTRUCTED NEAR THE DOWNSTREAM PERIMETER OF A DISTURBED AREA ALONG A CONTOUR TO INTERCEPT SEDIMENT FROM OVERLAND RUNOFF. A 2-YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE TO BE FILTERED.

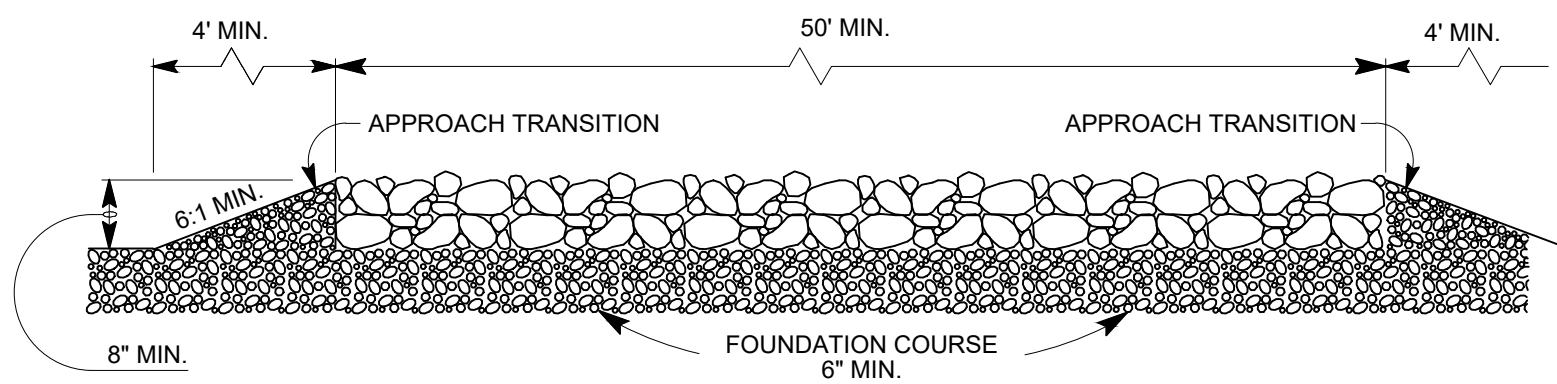
SEDIMENT CONTROL FENCE SHOULD BE SIZED TO FILTER A MAX. FLOW THROUGH RATE OF 100 GPM/FT. SEDIMENT CONTROL FENCE IS NOT RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE AREA LARGER THAN TWO ACRES.

GENERAL NOTES :

1. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.



PLAN



PROFILE

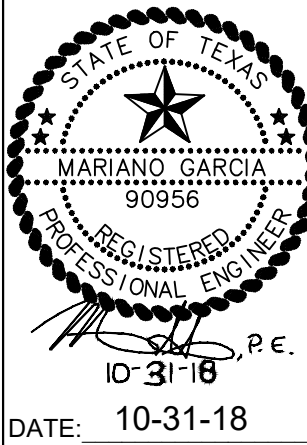
GENERAL NOTES

1. THE LENGTH OF THE TYPE 1 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 50'.
2. THE COARSE AGGREGATE SHOULD BE OPEN GRADED WITH A SIZE OF 4" TO 8".
3. THE APPROACH TRANSITIONS SHOULD BE NO STEEPER THAN 6:1 AND CONSTRUCTED AS DIRECTED BY THE ENGINEER.
4. THE CONSTRUCTION EXIT FOUNDATION COURSE SHALL BE FLEXIBLE BASE, BITUMINOUS CONCRETE, PORTLAND CEMENT CONCRETE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER.
5. THE CONSTRUCTION EXIT SHALL BE GRADED TO ALLOW DRAINAGE TO A SEDIMENT TRAPPING DEVICE.
6. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

EROSION & SEDIMENT CONTROL DETAILS

SCALE: NTS

DATE	DESCRIPTION
10-04-2018	ISSUED FOR CONSTRUCTION
10-31-2018	REVISION #1



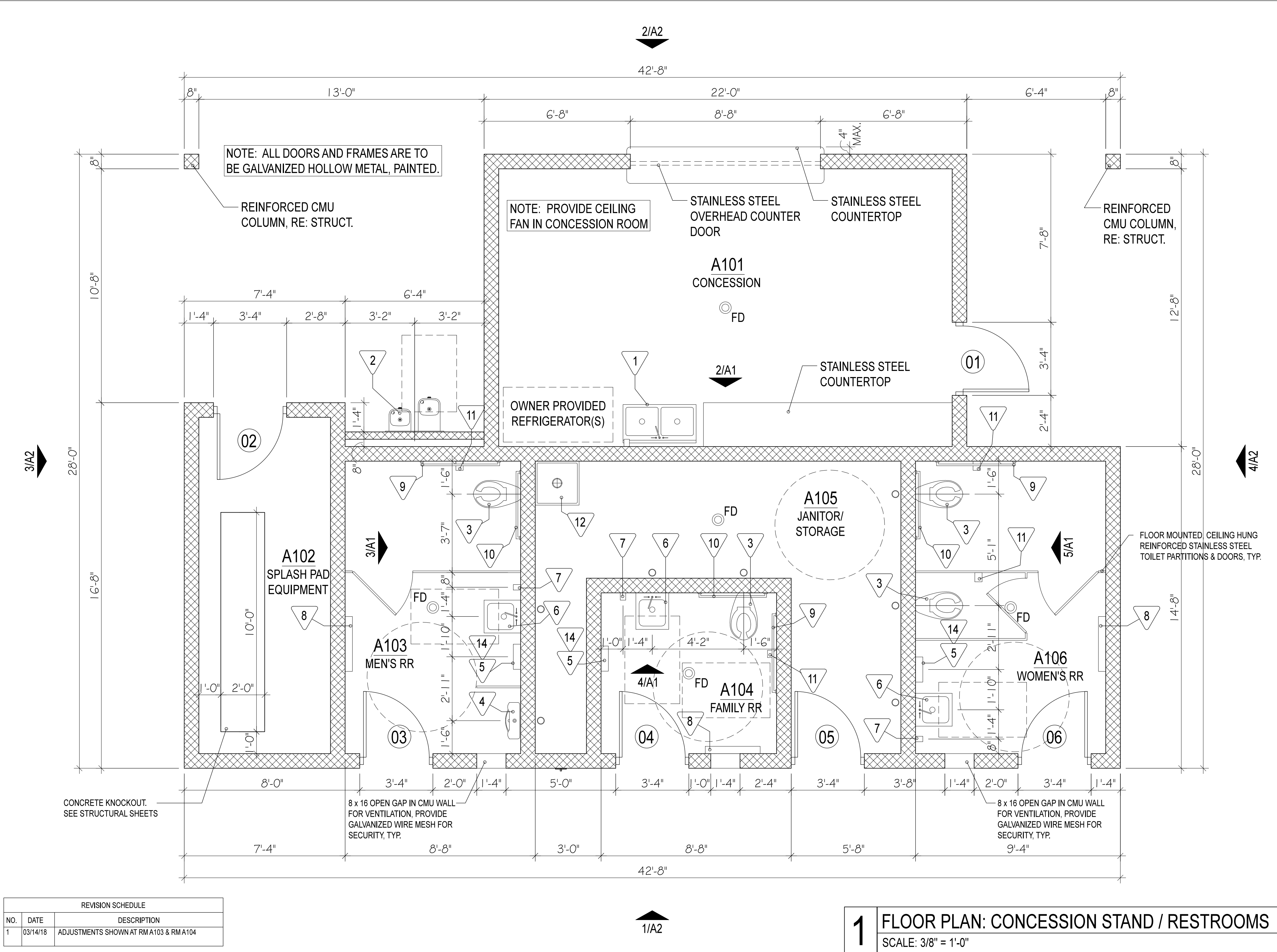
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PROJECT NUMBER:

17-108

SHEET NUMBER:

C5.1



REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
1	03/14/18	ADJUSTMENTS SHOWN AT RM A103 & RM A104

1 FLOOR PLAN: CONCESSION STAND / RESTROOMS
SCALE: 3/8" = 1'-0"

1

FREE STANDING 2-COMPARMENT STAINLESS STEEL SINK

2

HANDICAP ACCESSIBLE DRINKING FOUNTAIN

3

WALL HUNG WATER CLOSET

4

WALL HUNG URINAL

5

WASTE RECPTACLE COMBO

6

WALL MOUNTED SINK

7

SOAP DISPENSER

8

BABY CHANGING STATION

9

42" GRAB BAR

10

36" GRAB BAR

11

TOILET PAPER DISPENSER

12

JANITOR'S SINK

13

WALL MOUNTED MIRROR

14

WALL MOUNTED ELECTRIC HAND DRYER (ABOVE WASTE RECEPTACLE)

NOTE: BASED ON THE QUALITY AND PERFORMANCE REQUIREMENTS OF THE PROJECT, SPECIFICATIONS ARE BASED SOLELY ON THE PRODUCTS OF BOBRICK WASHROOM EQUIPMENT, INC. WWW.BOBRICK.COM.

BASIS OF DESIGN SHALL BE HEAVY-DUTY, CLASSICSERIES LINE OF PRODUCTS - AND ASSOCIATED ACCESSORIES.

ROOM FINISH SCHEDULE								
ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS				CEILING
				NORTH	EAST	SOUTH	WEST	MTL. HEIGHT
A101	CONCESSION	F.1	B.1	W.1	W.1	W.1	W.1	C.1 10'-0"
A102	SPLASH PAD EQUIPMENT	F.1	B.1	W.1	W.1	W.1	W.1	C.1 10'-0"
A103	MEN'S RR	F.1	B.1	W.1	W.1	W.1	W.1	C.1 10'-0"
A104	FAMILY RR	F.1	B.1	W.1	W.1	W.1	W.1	C.1 10'-0"
A105	JANITOR / STORAGE	F.1	B.1	W.1	W.1	W.1	W.1	C.1 10'-0"
A106	WOMEN'S RR	F.1	B.1	W.1	W.1	W.1	W.1	C.2 10'-0"

FLOOR FINISH KEY	BASE TYPE KEY	WALL FINISH KEY	CEILING FINISH KEY
F.1 SEALED CONCRETE	B.1 NONE	W.1 CMU (SEALED & PAINTED)	C.1 MOISTURE RESISTANT PLYWOOD (SEAL & PAINT)

DOOR SCHEDULE*

DOOR							FRAME		
MARK	TYPE	SINGLE OR PAIR	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	TYPE	MATERIAL
01	A	S	3'-0"	7'-0"	2"	GHM	PTD	A	GHM
02	A	S	3'-0"	7'-0"	2"	GHM	PTD	A	GHM
03	A	S	3'-0"	7'-0"	2"	GHM	PTD	A	GHM
04	A	S	3'-0"	7'-0"	2"	GHM	PTD	A	GHM
05	A	S	3'-0"	7'-0"	2"	GHM	PTD	A	GHM
06	A	S	3'-0"	7'-0"	2"	GHM	PTD	A	GHM

ABBREVIATIONS

GHM GALVANIZED HOLLOW METAL
PTD PAINTED

* GENERAL CONTRACTOR SHALL PROVIDE A DOOR HARDWARE ALLOWANCE OF \$800 PER DOOR (\$4,800 TOTAL). DOOR HARDWARE SHALL BE FINALIZED DURING SUBMITTAL PROCESS.

7'-4"

7'-0"

2"

3'-4"

3'-0"

2"

A

GALVANIZED HOLLOW METAL FRAME

3'-0"

7'-0"

2"

3'-0"

7'-0"

2"

A

GALVANIZED HOLLOW METAL DOOR

2 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"

3 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"

4 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"

5 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"

HEFFNER DESIGN TEAM, PLLC
aheffner@heffnerdesignteam.com
4814 N. 11TH ST. SUITE E
McALLEN, TX. 78504
(956) 212-3385

SOUTH SIDE PARK
SAN BENITO, TX

PROJECT:

DESCRIPTION 100% CONSTRUCTION DOCUMENTS

DATE 10-05-2018

REGISTERED ARCHITECT
STATE OF TEXAS
13133
10-05-2018

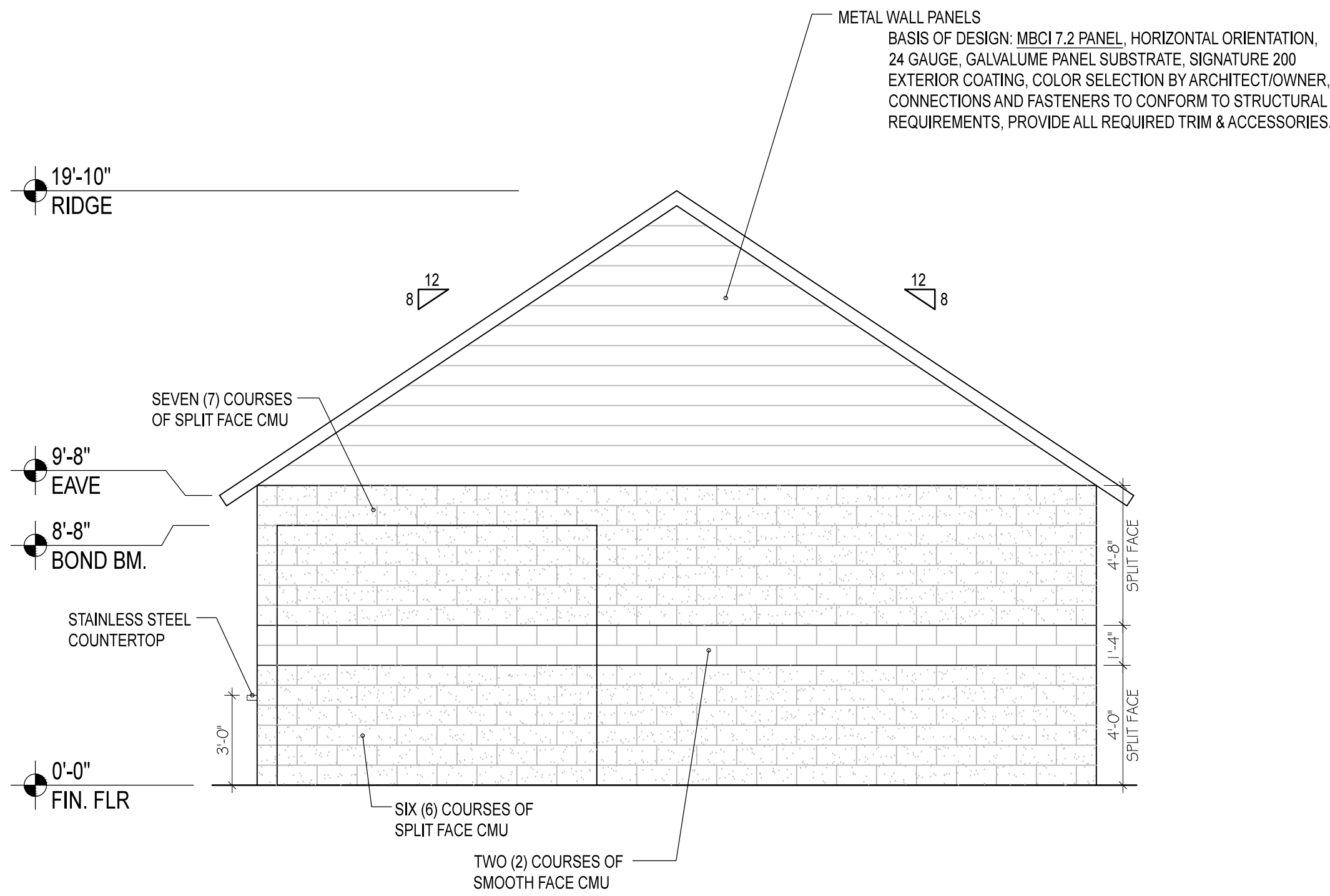
DATE: 10-05-2018

SHEET TITLE:

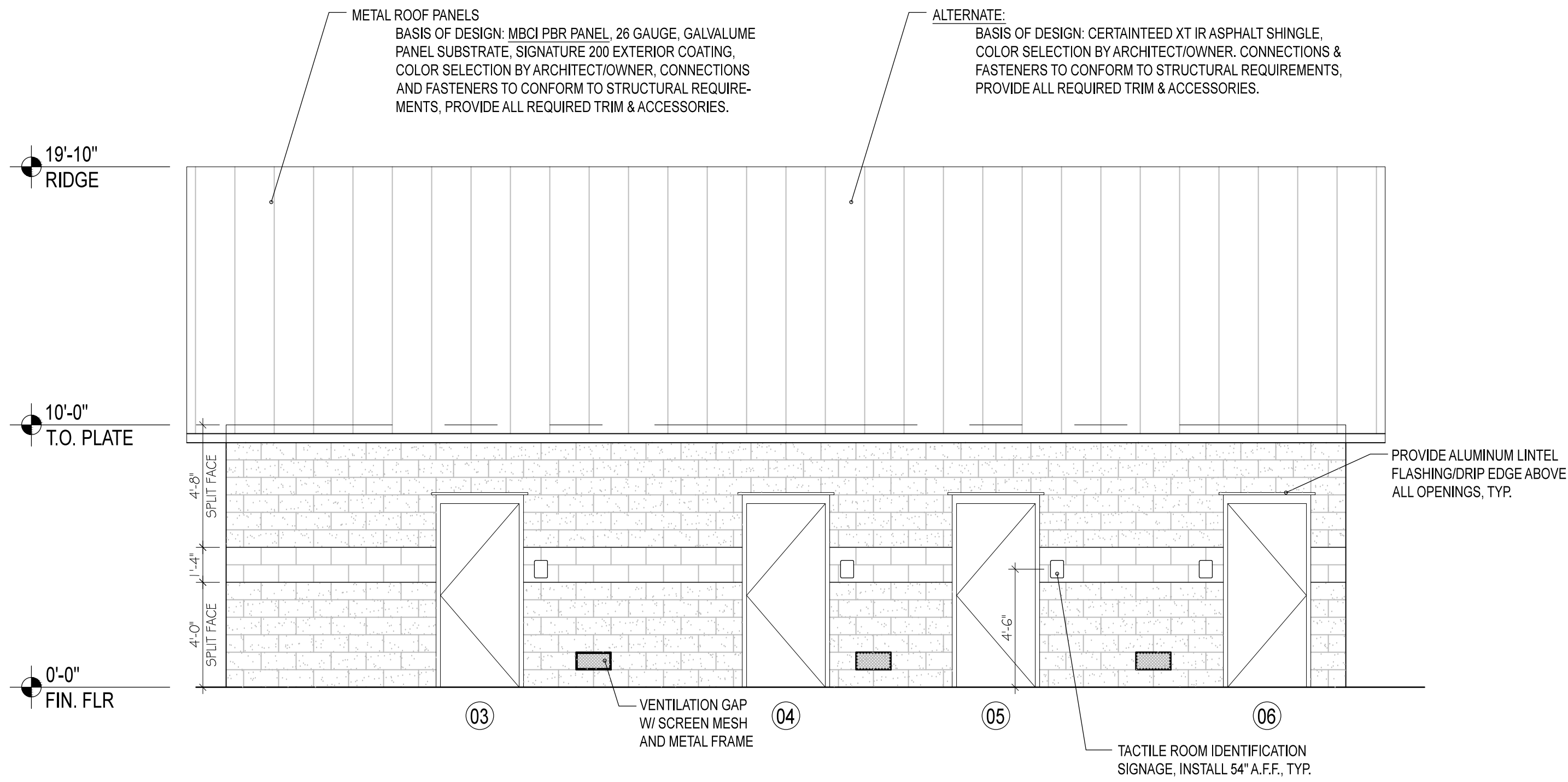
CONCESSION STAND / RR
FLOOR PLAN, INTERIOR
ELEVATIONS, AND SCHEDULES

PROJECT NUMBER:
A17-02

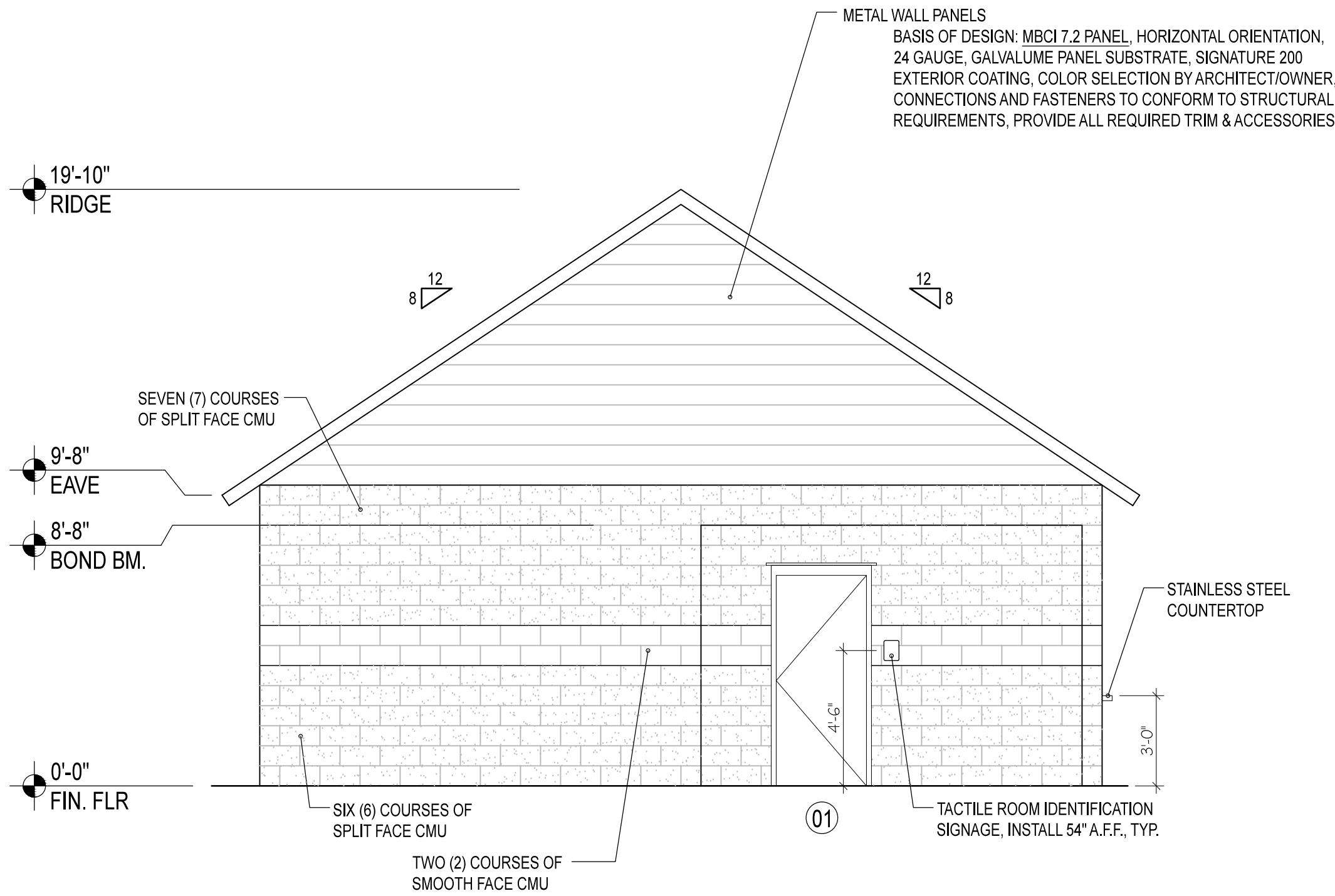
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A1



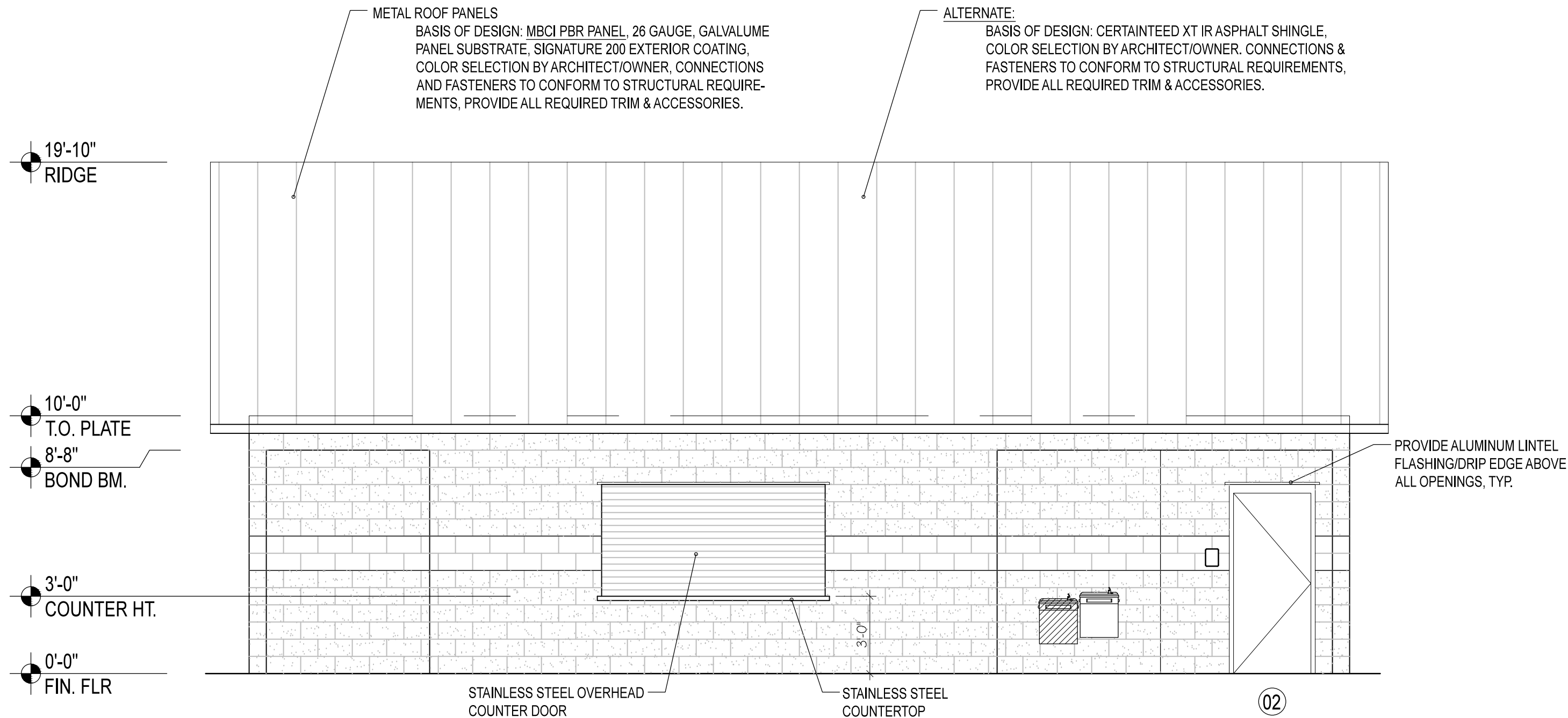
3 ELEVATION: CONCESSION STAND / RESTROOMS
SCALE: 1/4" = 1'-0"



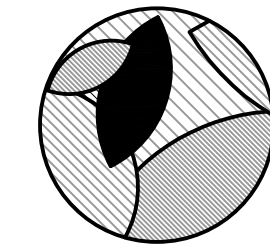
1 ELEVATION: CONCESSION STAND / RESTROOMS
SCALE: 1/4" = 1'-0"



4 ELEVATION: CONCESSION STAND / RESTROOMS
SCALE: 1/4" = 1'-0"



2 ELEVATION: CONCESSION STAND / RESTROOMS
SCALE: 1/4" = 1'-0"



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SOUTH SIDE PARK
SAN BENITO, TX

PROJECT:

DESCRIPTION
100% CONSTRUCTION DOCUMENTS

DATE
10-05-2018



DATE: 10-05-2018



CONCESSION STAND / RR
EXTERIOR ELEVATIONS

SHEET TITLE:

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PROJECT NUMBER:
A17-02

SHEET NUMBER:

A2

GENERAL NOTES

DESIGN CRITERIA

1. ROOF LOADS:
LIVE LOAD20 PSF
DEAD LOAD20 PSF
2. WIND LOAD: VARIES WITH BUILDING HEIGHT AS PER IBC 2012 & THE LATEST EDITION OF ASCE-7 BASED UPON A 140 MPH.
3. EXPOSURE FACTOR C

CONCRETE

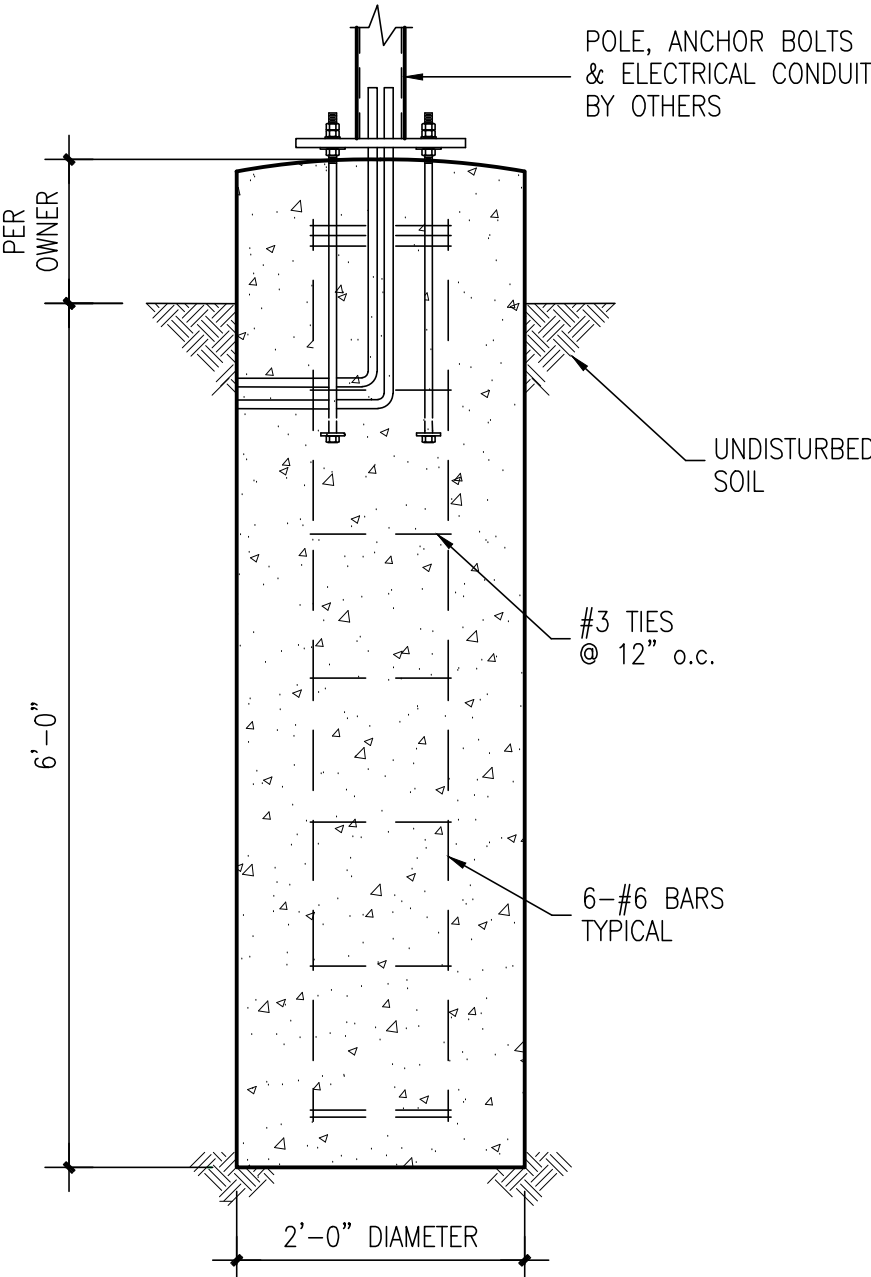
1. ALL CONCRETE WORK SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE SPECIFICATION, A.C.I. #301 AND BUILDING CODE REQUIREMENTS, A.C.I. #318, LATEST EDITION.
2. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS, UNLESS OTHERWISE NOTED, MUST FOLLOW THE A.C.I. "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE", A.C.I. #315, LATEST EDITION.
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSION STRENGTH AT 28 DAYS AS FOLLOWS:
- 3000 PSI FOR ALL CONCRETE
- A MAXIMUM OF 25% FLYASH MAY BE USED AS A CEMENT SUBSTITUTE AND SHALL CONFORM TO ASTM C618. THE WATER/CEMENT RATIO SHALL NOT EXCEED 0.58 AND SLUMPS SHALL BE BETWEEN 4 AND 5 INCHES. RETAIN A QUALIFIED TESTING LABORATORY TO FURNISH MIX DESIGNS FOR ALL CLASSES OF CONCRETE, MAKE CONCRETE CYLINDERS AND PERFORM COMPRESSIVE TESTS. A MINIMUM OF THREE CYLINDERS SHALL BE TAKEN IN ACCORDANCE WITH THE BUILDING CODE.
4. REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A-615, GRADE 60.
5. STANDARD PROTECTIVE COVER OF REINFORCING BARS UNLESS OTHERWISE NOTED SHALL BE:
- WHERE CAST AGAINST DIRT OR FILL 3 IN.
EXPOSED TO EARTH OR WEATHER 2 IN.
COLUMNS 1 1/2 IN.
SLABS AND WALLS 1 IN.
OTHER 1-1/2 IN.
6. ALL ACCESSORIES SHALL BE IN ACCORDANCE WITH THE A.C.I. "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE", A.C.I. #315, LATEST EDITION. ACCESSORIES FOR EXPOSED CONCRETE SOFFITS OR FACES SHALL HAVE PLASTIC COATED FEET.
7. VERTICAL CONSTRUCTION JOINTS IN FLOOR OR ROOF SLABS ARE TO BE AS SHOWN ON PLANS. NO HORIZONTAL JOINTS WILL BE PERMITTED IN SLABS OR BEAMS UNLESS OTHERWISE NOTED.
8. MAINTAIN A MINIMUM OF ONE BAR DIAMETER (BUT NOT LESS THAN 1") BETWEEN ALL REINFORCING BARS (INCLUDING LAPS) ON ALL SLABS. MAINTAIN A MINIMUM OF 1-1/2" BETWEEN BARS IN COLUMNS, AND A MINIMUM OF 1-1/2 TIMES THE MAXIMUM COARSE AGGREGATE SIZE IN ALL CASES.
9. BARS SCHEDULED OR DETAILED "CONT" SHALL BE LAPPED 40 BAR DIAMETERS UNLESS OTHERWISE NOTED.
10. CONCRETE PLACED BY PUMPING SHALL MEET THE FOLLOWING REQUIREMENTS:
- a) COARSE AGGREGATE SHALL BE GRADED FROM A MAXIMUM OF 1" DOWN.
- b) MAXIMUM ALLOWABLE INCREASE IN CEMENT FACTOR SHALL BE 1/2 SACK PER CUBIC YARD OVER NORMAL MIX DESIGN.
- c) MAXIMUM WATER CEMENT RATIO SHALL BE 7-1/2 GALLONS PER SACK OF CEMENT. IF MORE WORKABILITY IS REQUIRED, AN ADMIXTURE MAY BE USED.
- d) MAXIMUM WEIGHT RATIO OF FINE AGGREGATES TO COARSE AGGREGATES SHALL NOT EXCEED 2/3.
- e) REFER TO A.C.I. #301, LATEST EDITION, SECTION 800, FOR OTHER PUMPING REQUIREMENTS.
- f) IN NO CASE SHALL CONCRETE BE PUMPED THROUGH AN ALUMINUM TUBE.

FOUNDATION NOTES

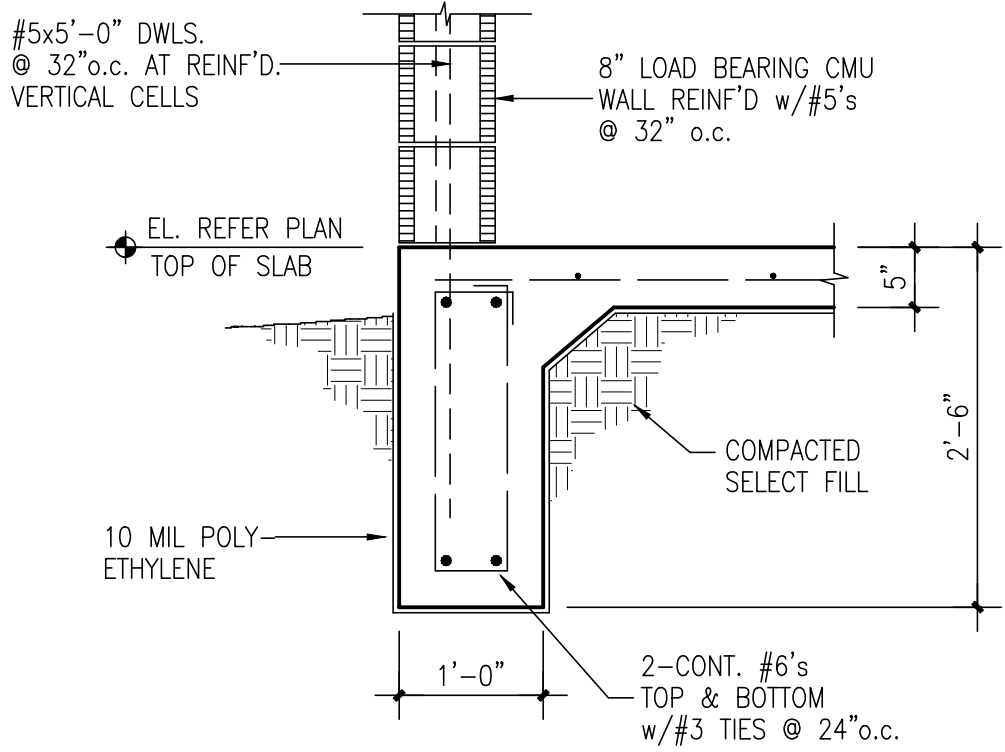
1. REMOVE AT LEAST 6 INCHES OF TOP SOIL, VEGETATION, DEBRIS, ETC., FROM THE PROPOSED BUILDING AREA TO A DISTANCE OF 5'-0" OUTSIDE THE
2. REWORK AND COMPACT THE TOP 6" OF THE EXPOSED SUBGRADE UNDER ALL FLOORS TO 95% (+ 3%) OF THE MAXIMUM DENSITY AT -2% TO +3% OF THE OPTIMUM MOISTURE CONTENT, IN ACCORDANCE WITH TEST METHOD ASTM D-698, PRIOR TO PLACEMENT OF SELECT FILL.
3. FILL BACK TO REQUIRED GRADE ($\pm 18"$ ABOVE EXISTING GRADE) WITH MATERIAL SELECTED AND COMPACTED IN ACCORDANCE WITH THE REQUIREMENTS BELOW.
4. SELECT FILL, WHEN PROPERLY SLAKED AND TESTED BY STANDARD LABORATORY METHODS, SHALL MEET THE FOLLOWING REQUIREMENTS:
- A. LIQUID LIMIT SHALL BE LESS THAN OR EQUAL TO 40.
- B. PLASTICITY INDEX SHALL RANGE BETWEEN 7 AND 17.
- C. SHALL CONTAIN NO ORGANIC MATERIAL.
- D. SHALL CONTAIN NO STONES LARGER THAN 2 INCHES.
5. SAMPLES OF PROPOSED SELECT FILL SHALL BE FURNISHED TO THE TESTING LABORATORY 7 DAYS PRIOR TO INSTALLATION TO PERMIT TIME FOR SPECIFICATION COMPLIANCE INSPECTION AND APPROVAL.
6. SELECT FILL UNDER ALL FLOORS AND WALKS SHALL BE COMPACTED IN THE FIELD IN LIFTS NOT TO EXCEED 8" TO 95% (+ 5%) OF THE MAXIMUM DENSITY, AT -2% TO +3% OF THE OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH TEST METHOD ASTM D-698.
7. LABORATORY MOISTURE-DENSITY CURVE OR CURVES AS REQUIRED, AND RESULTS OF FIELD DENSITY CHECKS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER. A MINIMUM OF ONE (1) IN PLACE DENSITY TEST PER 4000 SQUARE FEET OF SLAB AREA SHALL BE TAKEN ON EACH LIFT DURING PLACEMENT OF SELECT FILL.

CONCRETE MASONRY

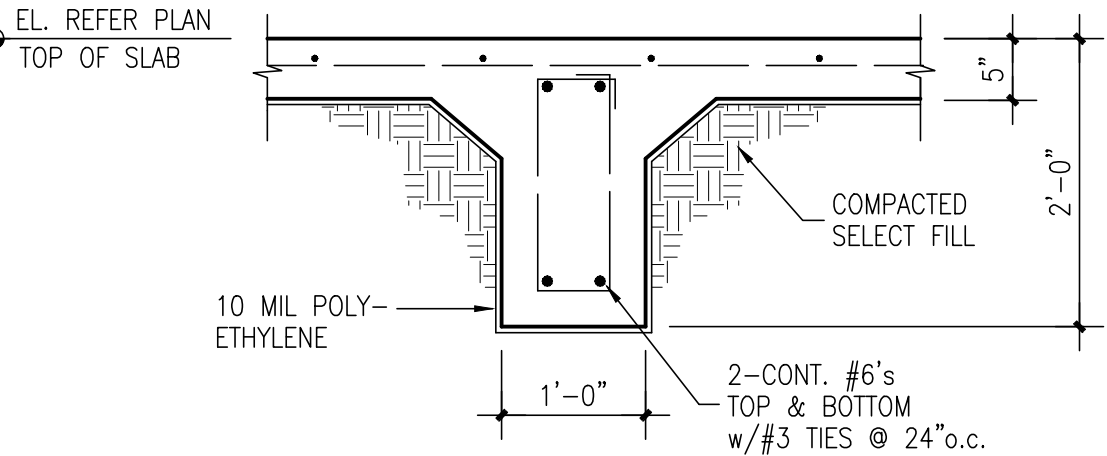
1. ALL LOAD BEARING CONCRETE MASONRY SHALL BE IN ACCORDANCE WITH ALL THE REQUIREMENTS OF THE LOCAL BUILDING CODES AND THE NATIONAL CONCRETE MASONRY ASSOCIATION.
2. HOLLOW LOAD BEARING CONCRETE MASONRY UNITS SHALL BE DOMESTIC LIGHTWEIGHT GRADE N UNITS, CONFORMING TO ASTM C-90-75.
3. MASONRY UNITS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI WHEN TESTED IN ACCORDANCE WITH ASTM C-140, "METHODS OF SAMPLING AND TESTING CONCRETE MASONRY UNITS" ($f_m = 1350$ PSI).
4. MORTAR FOR MASONRY SHALL BE IN ACCORDANCE WITH ASTM-270 TYPE "S" (1800 PSI COMPRESSIVE STRENGTH AT 28 DAYS).
5. GROUT FOR ALL REINFORCED HOLLOW MASONRY UNIT WALLS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI (6 SACK MIX) WITH A MAXIMUM 3/8" AGGREGATE.
6. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60.
7. UNLESS OTHERWISE NOTED, ALL MASONRY WALLS SHALL BE REINFORCED WITH 9 GA. MILL GALVANIZED, HORIZONTAL WIRE REINFORCEMENT (TRUSS TYPE) EMBEDDED IN MORTAR JOINTS AT 16" o.c. NOMINAL WIDTH OF JOINT REINFORCING SHALL EQUAL WALL THICKNESS. WIRE REINFORCEMENT SHALL CONFORM TO ASTM DESIGNATION A-82, AND SHALL BE LAPPED AT LEAST 6" WITH AT LEAST ONE CROSS WIRE WITHIN THE LAP. JOINT REINFORCING SHALL BE INSTALLED IN THE FIRST AND SECOND MORTAR BED JOINTS IMMEDIATELY ABOVE AND BELOW ALL OPENINGS.
8. UNLESS NOTED OTHERWISE ON PLANS, ON GROUTED #5 BAR SHALL BE PROVIDED AROUND THE PERIMETER OF ALL WALL OPENINGS.
9. BOND BEAMS SHALL BE REINFORCED WITH ONE CONTINUOUS #5 BAR. REINFORCING SHALL BE CONTINUOUS AT ALL CORNERS AND INTERSECTING WALLS.
10. CONTROL JOINTS SHALL BE CONSTRUCTED WITH SLOTTED MASONRY UNITS AND FACTORY MOLDED JOINT FILLER. JOINTS SHALL BE CAULKED WITH AN APPROVED MATERIAL.
11. CONTROL JOINTS SHALL NOT EXTEND THROUGH BOND BEAMS UNLESS INDICATED ON PLANS.
12. ALL PERIMETER EXTERIOR CMU WALLS SHALL BE REINFORCED WITH VERT. #5's GROUTED SOLID AT 32" o.c. AND HORIZONTAL BOND BEAMS REINFORCED W/ 1-CONT. #5. BOND BEAMS SHALL BE LOCATED VERTICALLY AT 8'-0" o.c. AND AT TOP OF WALL.
13. PROVIDE #5 x 5'-0" DWELS @ 32" o.c. AT FOUNDATION BEAMS ALONG PERIMETER EXTERIOR CMU WALLS. LOCATE DWELS IN SAME CELLS WHICH ARE TO BE REINFORCED.



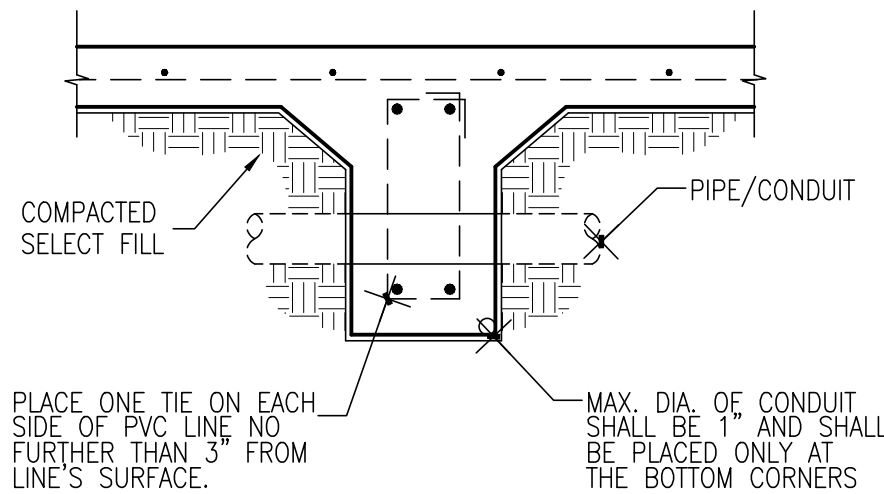
3/4"=1'-0" 7



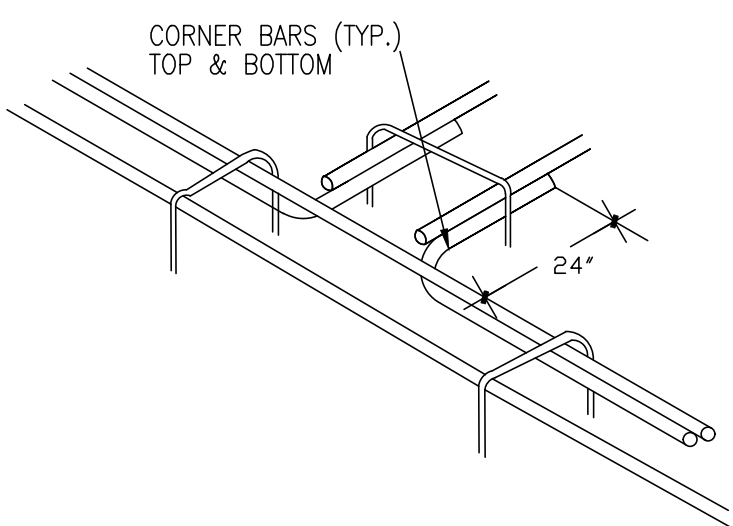
3/4"=1'-0" 1



3/4"=1'-0" 4

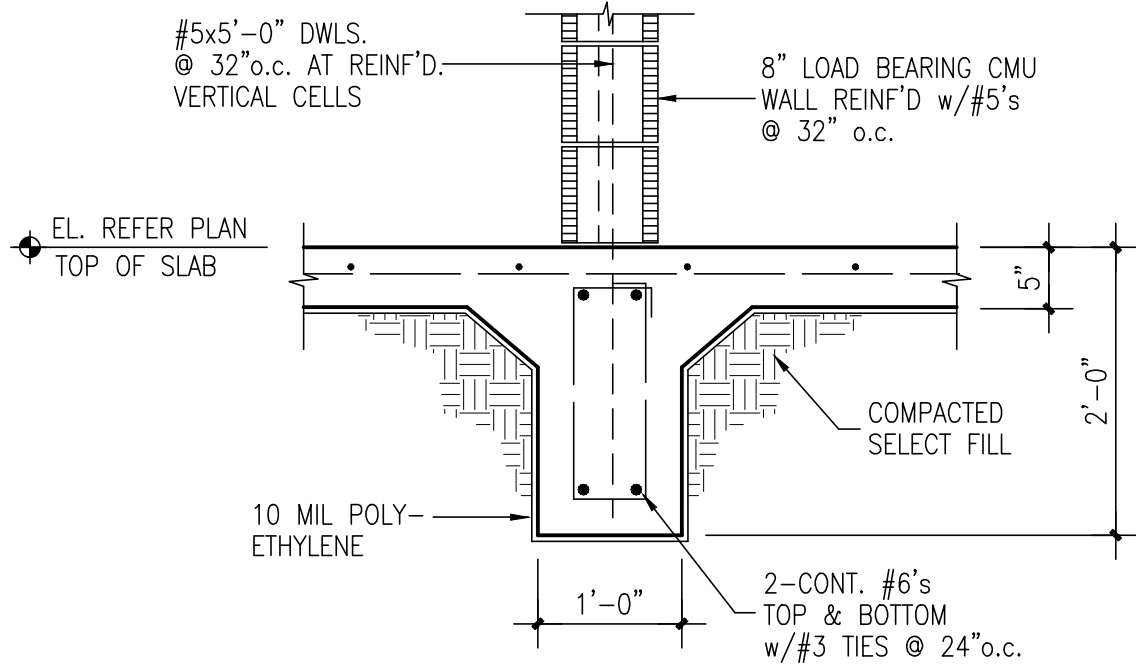


3/4"=1'-0" 8

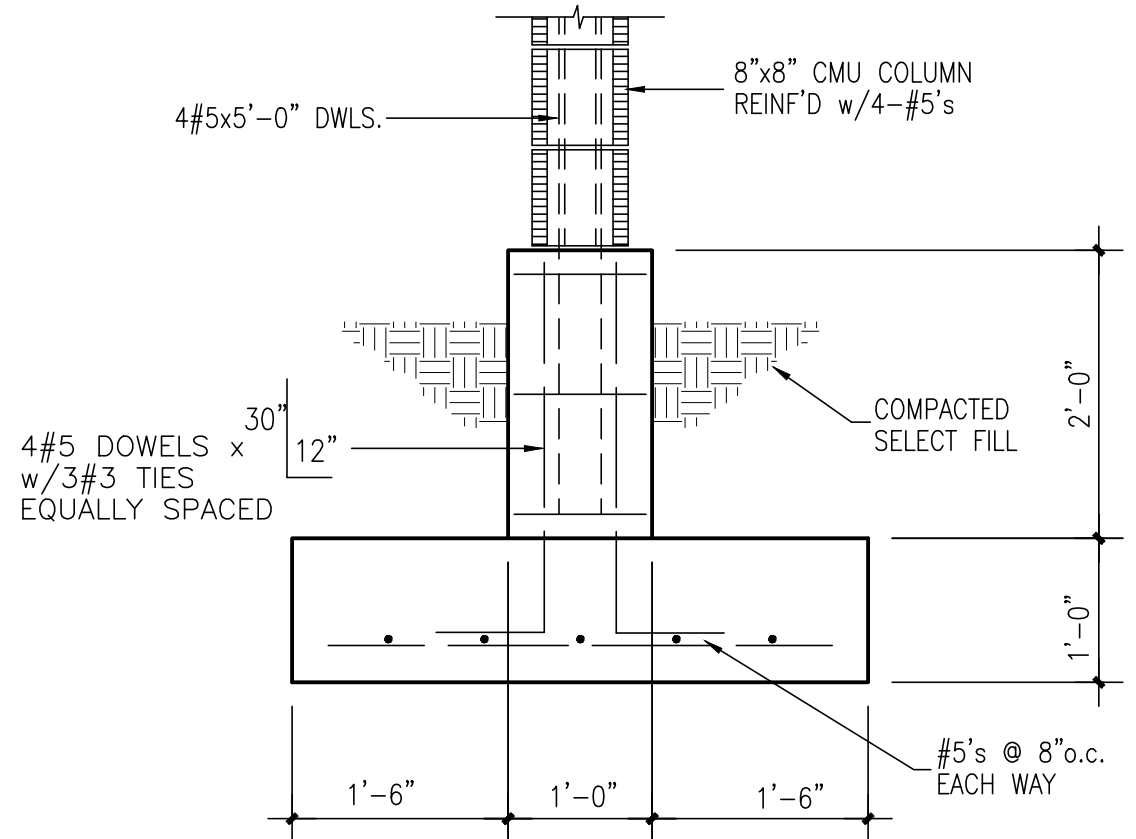


TYPICAL CORNER BAR DETAIL
AT ALL CORNERS AND EXTERIOR
INTERSECTIONS

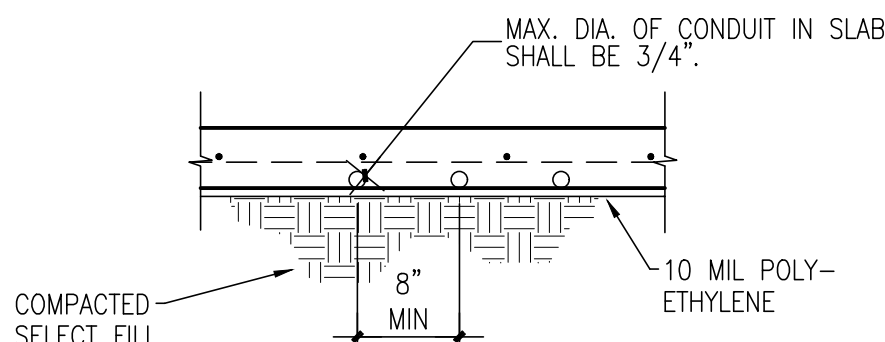
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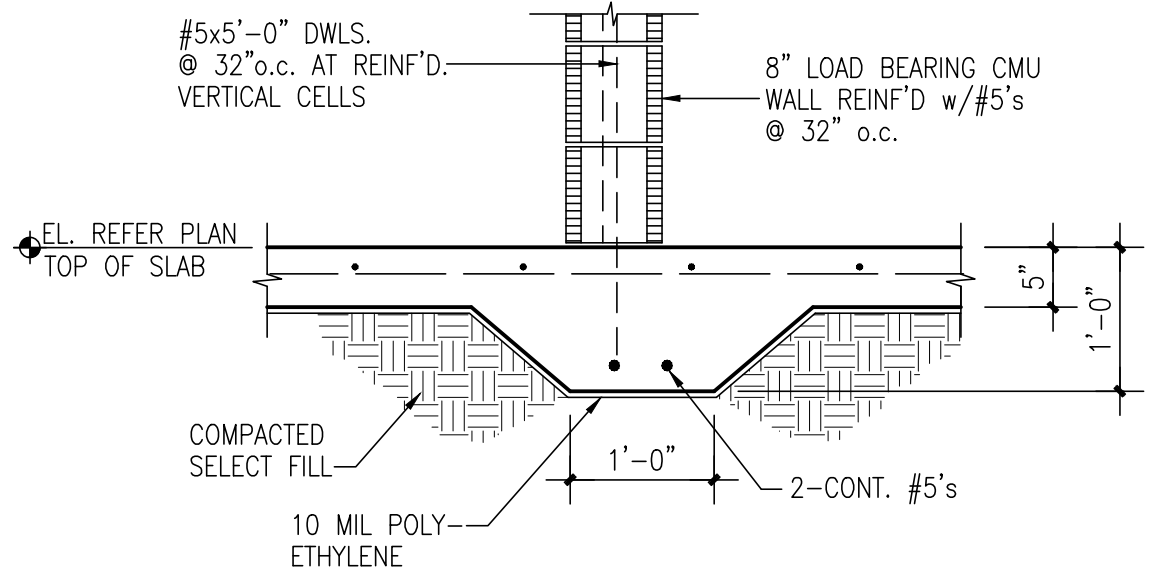
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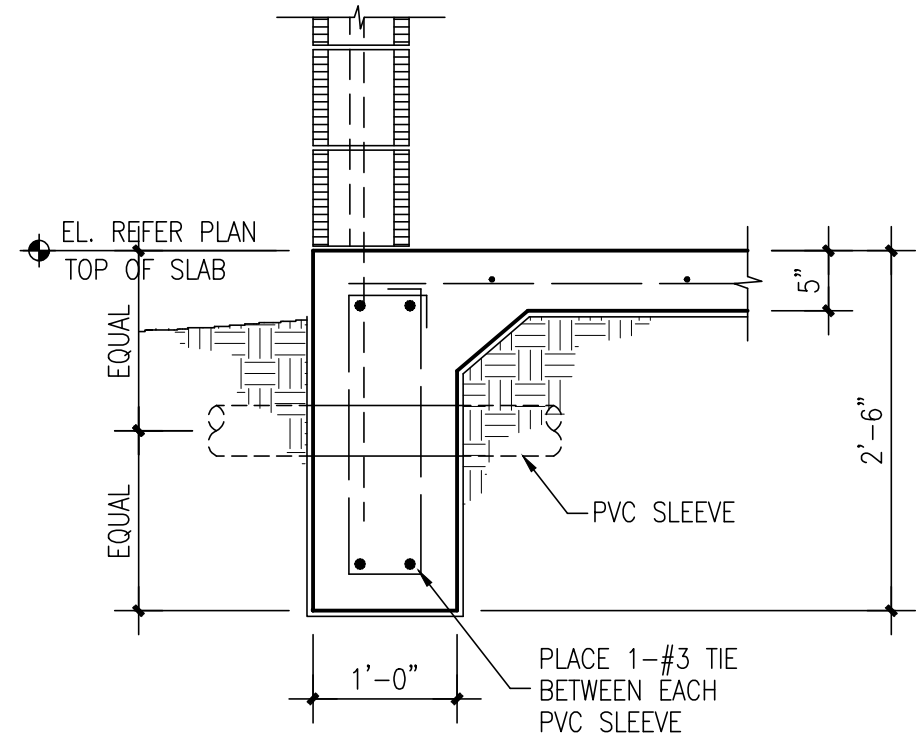
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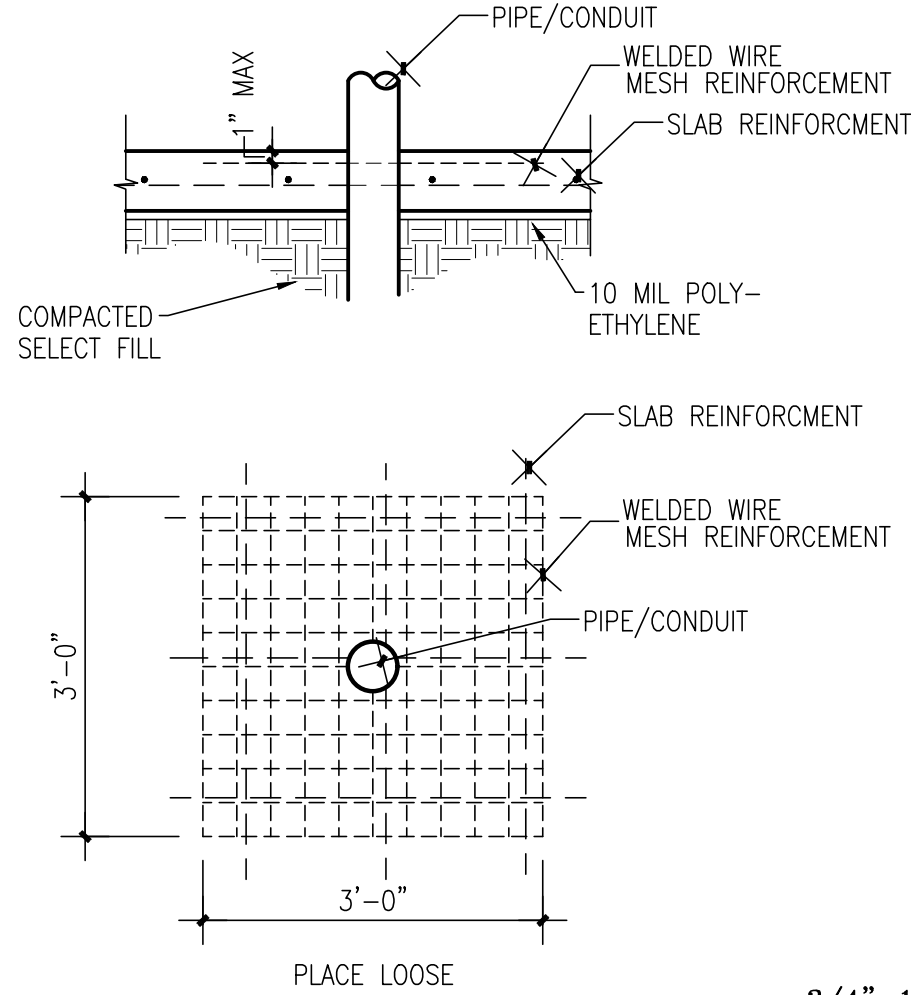
3/4"=1'-0" 9



3/4"=1'-0" 3



3/4"=1'-0" 6

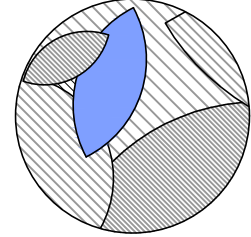


3/4"=1'-0" 10

MENDOZA
ENGINEERING, P.L.L.C.

STRUCTURAL ENGINEERS
FIRM REGISTRATION #F-10588

6316 N. 10th ST. SUITE 101 BLD'G A
McALLEN, TEXAS 78504 (956) 631-4906



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heffnerdesignteam@gmail.com
4814 N. 11TH ST. SUITE E
McALLEN, TX. 78504
(956) 212-3385

SOUTH SIDE PARK
SAN BENITO, TX

PROJECT:

DESCRIPTION

100% CONSTRUCTION DOCUMENTS

DATE

1-31-2018

STATE OF TEXAS

GEORGE MENDOZA

100276

PROFESSIONAL ENGINEER

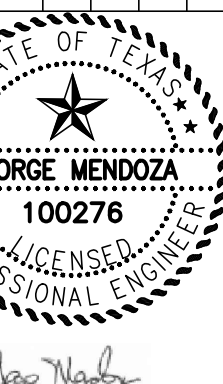
DATE: 10-4-2018

GENERAL NOTES
& FOUNDATION
DETAILS

SHEET
TITLE:

PROJECT
NUMBER: 14017

SHEET
NUMBER:



DATE: 10-4-2018

GENERAL NOTES
& FOUNDATION
DETAILS

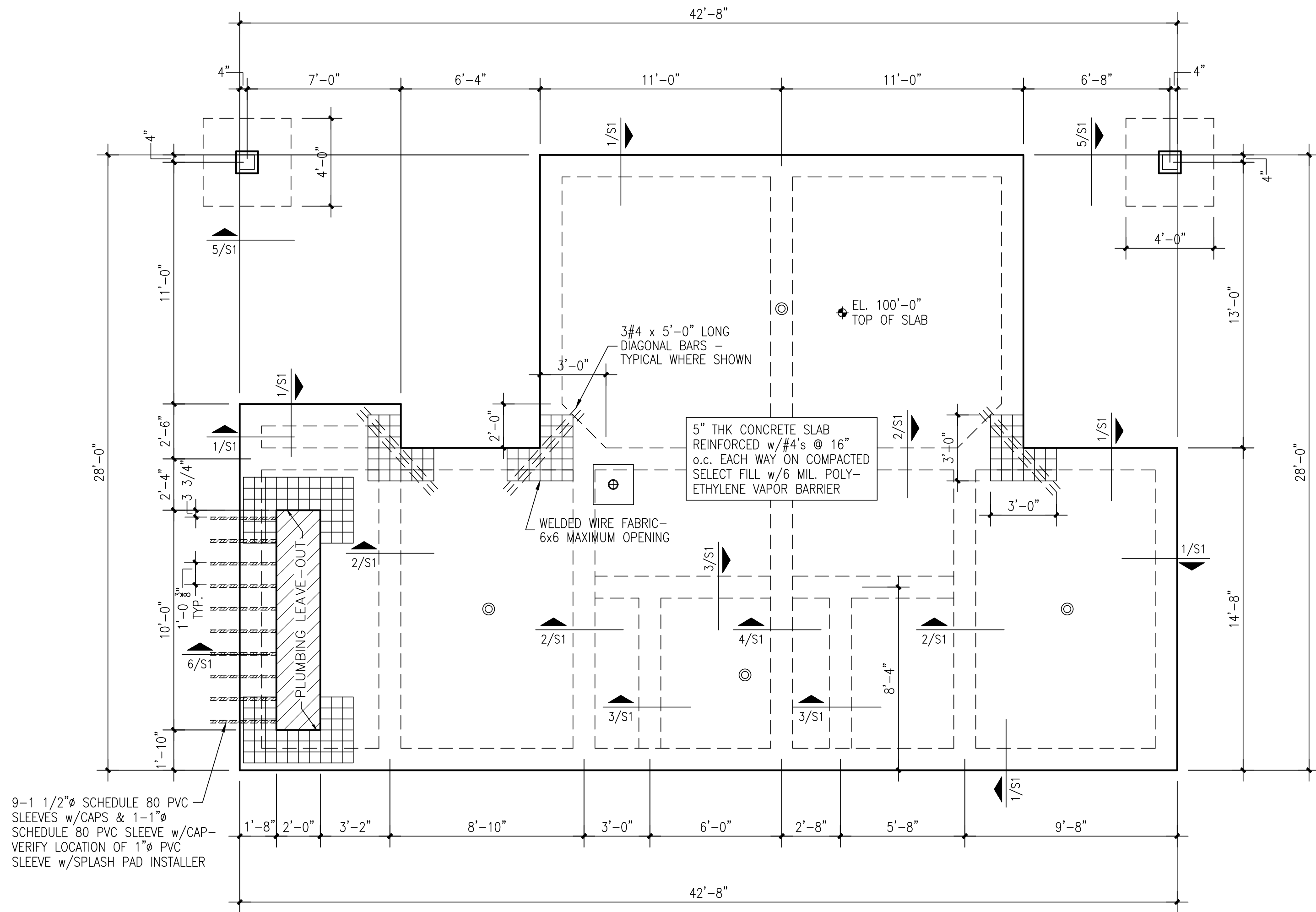
SHEET
TITLE:

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PROJECT
NUMBER: 14017

SHEET
NUMBER:

S1



9-1 1/2" SCHEDULE 80 PVC
SLEEVES w/CAPS & 1-1" SCHEDULE 80 PVC SLEEVE w/CAP-
VERIFY LOCATION OF 1" PVC
SLEEVE w/SPLASH PAD INSTALLER

FOUNDATION PLAN

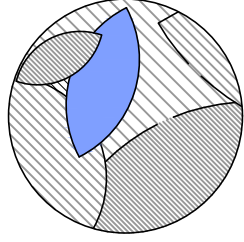
SCALE: 1/4" = 1'-0"

NOTES:
1. ELEVATION 100'-0" IS FOR REFERENCE ONLY.
REFER ARCH'L/CIVIL DRAWINGS FOR ACTUAL ELEVATION.

MENDOZA
ENGINEERING, P.L.L.C.

STRUCTURAL ENGINEERS
FIRM REGISTRATION #F-10588

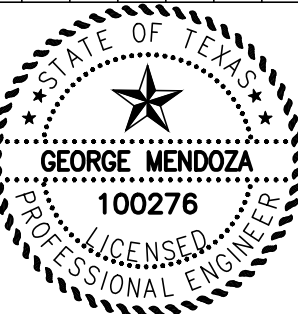
6316 N. 10th ST. SUITE 101 BLD'G A
McALLEN, TEXAS 78504 (956) 631-4906



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McALLEN, TX. 78504
(956) 212-3385

PROJECT:
SOUTH SIDE PARK
SAN BENITO, TX

DATE	DESCRIPTION	100% CONSTRUCTION DOCUMENTS
1-31-2018		



DATE: 10-4-2018

FOUNDATION
PLAN

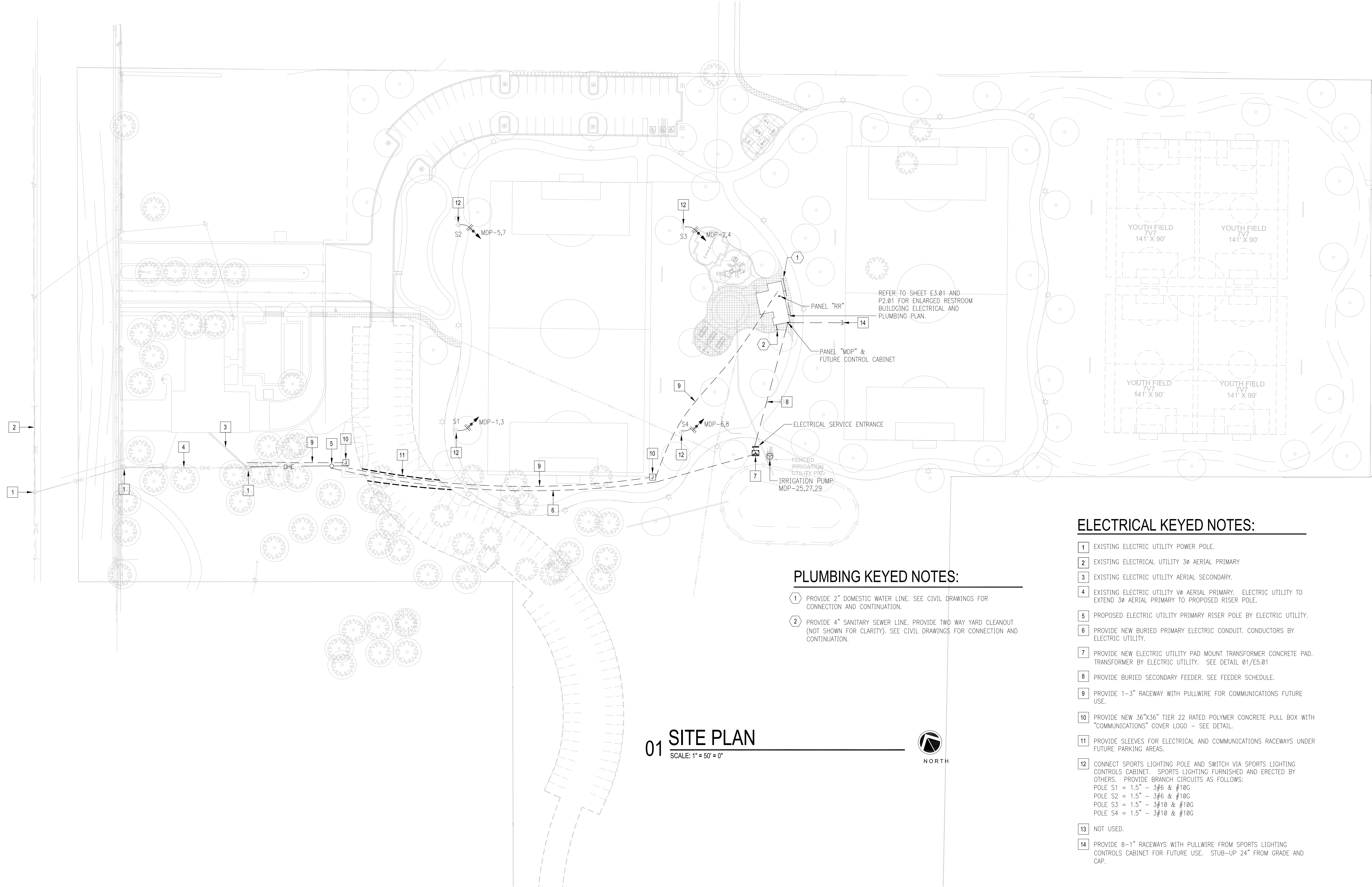
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safety precautions and programs in
connection with the project.

PROJECT
NUMBER: 14017

SHEET
NUMBER:

S2



PLUMBING KEYED NOTES:

- 1 PROVIDE 2" DOMESTIC WATER LINE. SEE CIVIL DRAWINGS FOR CONNECTION AND CONTINUATION.
- 2 PROVIDE 4" SANITARY SEWER LINE. PROVIDE TWO WAY YARD CLEANOUT (NOT SHOWN FOR CLARITY). SEE CIVIL DRAWINGS FOR CONNECTION AND CONTINUATION.

01 SITE PLAN

SCALE: 1"=50'=0"

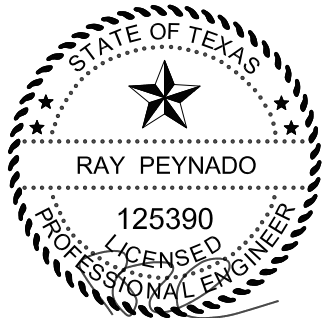


ELECTRICAL KEYED NOTES:

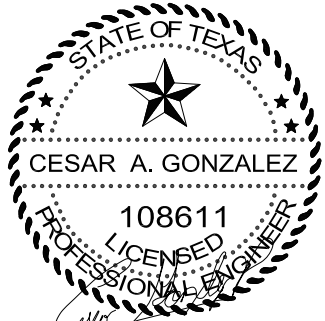
- 1 EXISTING ELECTRIC UTILITY POWER POLE.
- 2 EXISTING ELECTRICAL UTILITY 3ø AERIAL PRIMARY
- 3 EXISTING ELECTRIC UTILITY AERIAL SECONDARY.
- 4 EXISTING ELECTRIC UTILITY Vø AERIAL PRIMARY. ELECTRIC UTILITY TO EXTEND 3ø AERIAL PRIMARY TO PROPOSED RISER POLE.
- 5 PROPOSED ELECTRIC UTILITY PRIMARY RISER POLE BY ELECTRIC UTILITY.
- 6 PROVIDE NEW BURIED PRIMARY ELECTRIC CONDUIT. CONDUCTORS BY ELECTRIC UTILITY.
- 7 PROVIDE NEW ELECTRIC UTILITY PAD MOUNT TRANSFORMER CONCRETE PAD. TRANSFORMER BY ELECTRIC UTILITY. SEE DETAIL 01/E5.01
- 8 PROVIDE BURIED SECONDARY FEEDER. SEE FEEDER SCHEDULE.
- 9 PROVIDE 1-3" RACEWAY WITH PULLWIRE FOR COMMUNICATIONS FUTURE USE.
- 10 PROVIDE NEW 36"x36" TIER 22 RATED POLYMER CONCRETE PULL BOX WITH "COMMUNICATIONS" COVER LOGO - SEE DETAIL.
- 11 PROVIDE SLEEVES FOR ELECTRICAL AND COMMUNICATIONS RACEWAYS UNDER FUTURE PARKING AREAS.
- 12 CONNECT SPORTS LIGHTING POLE AND SWITCH VIA SPORTS LIGHTING CONTROLS CABINET. SPORTS LIGHTING FURNISHED AND ERECTED BY OTHERS. PROVIDE BRANCH CIRCUITS AS FOLLOWS:
POLE S1 = 1.5" - 3ø6 & #10G
POLE S2 = 1.5" - 3ø6 & #10G
POLE S3 = 1.5" - 3ø10 & #10G
POLE S4 = 1.5" - 3ø10 & #10G
- 13 NOT USED.
- 14 PROVIDE 8-1" RACEWAYS WITH PULLWIRE FROM SPORTS LIGHTING CONTROLS CABINET FOR FUTURE USE. STUB-UP 24" FROM GRADE AND CAP.

GENERAL NOTES:

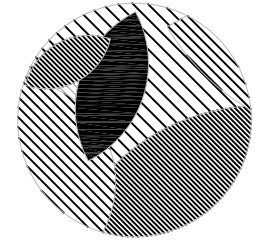
- COORDINATE WORK AMONG ALL DISCIPLINES. IT IS NOT THE INTENT OF THESE DOCUMENTS TO DICTATE WHO MUST DO THE WORK. ALL WORK SHOWN IS THE RESPONSIBILITY OF THE (PRIME) CONTRACTOR.
- FIELD VERIFY PROJECT SITE EXISTING CONDITIONS AND ELEVATIONS PRIOR TO BEGINNING ANY WORK.
- COORDINATE MECHANICAL, ELECTRICAL AND PLUMBING WITH GENERAL CONSTRUCTION.
- PHASING AND SEQUENCE OF CONSTRUCTION SHALL BE PER ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
- FIELD VERIFY/SPOT EXACT LOCATIONS AND EXISTING CONDITIONS OF EXISTING PLUMBING, AND ELECTRICAL. IT IS THE INTENT OF THESE PLANS TO PROVIDE A COMPLETE AND WORKABLE SYSTEMS. SHOULD BIDDER FIND OMISSIONS OR DISCREPANCIES IN THE PLANS, BIDDER SHALL NOTIFY THE ENGINEER PRIOR TO THE BID DATE AND A WRITTEN CLARIFICATION WILL BE ISSUED.
- DAMAGED ITEMS SHALL BE REPAIRED AT NO ADDITIONAL COST TO OWNER. CONTRACTORS ARE REQUIRED TO SEARCH AND INVESTIGATE FOR EXISTING UTILITIES BEFORE EXCAVATING.
- ALL MATERIALS AND LABOR, WHETHER SPECIFICALLY INDICATED ON PLANS OR NOT, WHICH ARE NECESSARY FOR THE PROPER INSTALLATION AND FUNCTION OF THE SYSTEM SHALL BE FURNISHED BY THIS CONTRACTOR. INCLUDE ALL COSTS OF CHANGES, IF/AS REQUIRED IN BID PROPOSAL.
- PROVIDE J-BOXES (POLYMER CONCRETE) AS REQUIRED FOR PULL WIRING.
- ELECTRICAL WIRING SHALL NOT BE SPLICED BELOW GRADE.
- PERFORM ALL WORK PER LATEST VERSION OF NATIONAL ELECTRICAL CODE, AND APPLICABLE LOCAL CODES AND ORDINANCES, UNLESS DRAWINGS OR SPECIFICATIONS HAVE MORE STRINGENT REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND FEES ASSOCIATED WITH PROJECT, INCLUDING FEES FOR INSPECTIONS, APPLICATIONS, AND PROVISION OF NEW SERVICES.
- CONTRACTOR WHO WILL ACTUALLY PERFORM WORK MUST APPLY FOR ALL REQUIRED PERMITS.
- NOTIFY ENGINEER OF ANY ASPECTS OF DESIGN WHICH ARE THOUGHT TO BE IN NONCOMPLIANCE WITH APPLICABLE CODES.
- COORDINATE ALL WORK WITH OTHER TRADES; COORDINATE SCHEDULE OF WORK WITH ALL SUB-CONTRACTORS TO ACHIEVE SMOOTH FLOW OF CONSTRUCTION.
- SEAL AROUND ELECTRICAL RACEWAYS AT ALL WALLS, A/C ROOMS AND WALL LOWER PENETRATIONS WITH FIREPROOF CAULKING. RE: SPECS. PROVIDE FLASHING AROUND PENETRATION, BOTH INSIDE AND OUTSIDE, TO PROVIDE FINISHED LOOK.
- TIME OR MONEY ALLOWANCES WILL NOT BE MADE TO ACCOMMODATE UTILITY CONFLICTS THAT CAN BE REASONABLY RESOLVED BY COORDINATION DURING SHOP DRAWING PHASE.
- CONTRACTOR SHALL REVIEW COMPLETE DOCUMENTS PRIOR TO SUBMITTAL OF PROPOSAL TO GAIN COMPLETE UNDERSTANDING OF PROJECT SCOPE, WORK BY OTHERS, AND ELECTRICAL WORK ASSOCIATED WITH OTHER DISCIPLINES.
- MAINTAIN MANUFACTURER RECOMMENDED CLEARANCE AROUND ALL EQUIPMENT.
- AFFIX ID TAGS TO ALL DIVISION 26 EQUIPMENT.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH MECHANICAL AND PLUMBING CONTRACTOR REGARDING EQUIPMENT SIZES AND TYPES OF ELECTRICAL INTERFACE EQUIPMENT REQUIRED.
- FIELD VERIFY ALL CONDITIONS AND MEASURE DIMENSIONS WITHIN THE BUILDING PRIOR TO ORDERING EQUIPMENT AND/OR PROCEEDING WITH INSTALLATION.
- ALL EQUIPMENT SHALL BE FACTORY TESTED, AND CONTRACTOR SHALL VERIFY THEIR CONDITION PRIOR TO INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT DAMAGED DURING MOVING AND INSTALLATION.
- EQUIPMENT FOUND DEFECTIVE PRIOR TO FINAL ACCEPTANCE SHALL BE REPLACED AT NO COST TO OWNER.
- WORK TO BE DONE UNDER ALLOWANCES BECOMES AN INTEGRAL PART OF THE PROJECT AND RESPONSIBILITY OF CONTRACTOR ONCE ALLOWANCE IS APPROVED.
- SLEEVE ALL EXTERIOR WALL PENETRATIONS.
- CONTRACTOR SHALL NOT PROCEED WITH ANY WORK INVOLVING A CHANGE IN PROJECT SCOPE OR COST WITHOUT FIRST HAVING OBTAINED ENGINEER'S APPROVAL IN WRITING. UNLESS ENGINEER HAS AGREED TO SUCH CHANGE PRIOR TO IT BEING DONE, AND HAS AGREED THAT AN INCREASE IN COST ASSOCIATED WITH SUCH CHANGE IS WARRANTED; CONTRACTOR WILL NOT BE REIMBURSED FOR SUCH CHANGE.



DATE: 10.31.2018



DATE: 10.31.2018



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SOUTH SIDE PARK - B
SAN BENITO, TX

PROJECT:

DATE	DESCRIPTION	ISSUED FOR CONSTRUCTION	REVISION #1
10-04-2018			
10-31-2018			

SHEET TITLE:

M. E. P. SITE PLAN

These Drawings and Specifications are to be an instrument of service and shall remain the property of the Landscape Architect. They are not to be used on other projects or extensions to this project except by agreement in writing with the Landscape Architect. The Landscape Architect is not responsible for construction means, methods, sequences or procedures or for safety precautions and programs in connection with the project.

PROJECT NUMBER:

A17-02

SHEET NUMBER:

MEP1.01

ABBREVIATIONS:

A	AMPS	GALV.	GALVANIZED
ABC	ABOVE CEILING LINE	GRND.	GROUND
AC	ABOVE COUNTER BACKSPLASH	HP	HORSEPOWER
AFF	ABOVE FINISHED FLOOR	HVAC	HEATING, VENTILATION, & AIR CONDITIONING
B.	BOTTOM		
BLC.	BELOW CEILING LINE	MECH	MECHANICAL
C.	CONDUIT OR COMMON	NTS	NOT TO SCALE
CLG.	CEILING	PH	PHASE
COND.	CONDUIT	RM.	ROOM
CU.	COPPER	SS	STAINLESS STEEL
DISC.	DISCONNECT	UG	UNDERGROUND
EF	EXHAUST FAN	UNO	UNLESS OTHERWISE NOTED
EXT.	EXTERNAL OR EXTERIOR	V	VOLTS
G.	GROUND	W	WIRE

WIRING DEVICES SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	DUPLEX RECEPTACLE TAMPER RESISTANT – HUBBELL MODEL #BR20WRTR	18" AFF
	DUPLEX RECEPTACLE TAMPER AND WEATHER RESISTANT W/ GROUND FAULT INTERRUPTING TYPE HUBBELL MODEL #GFTR20XX. MOUNT @ +4" HORIZONTALLY ABOVE COUNTER BACK SPLASH.	4" ACB
	DUPLEX RECEPTACLE W/ GROUND FAULT INTERRUPTING TYPE – HUBBELL MODEL #GF20X	18" AFF
	DUPLEX RECEPTACLE TAMPER AND WEATHER RESISTANT W/ GROUND FAULT INTERRUPTING TYPE HUBBELL MODEL #GFTR20XX. WHILE IN USE WEATHERPROOF COVER – HUBBELL MODEL #WP26E	18" AFF
	JUNCTION BOX W/ BLANK COVERPLATE	AS REQUIRED
	SINGLE POLE TOGGLE SWITCH – HUBBELL MODEL #HBL1221X	48" AFF
	KEYED TOGGLE SWITCH CORBIN TYPE – HUBBELL MODEL #HBL1221RK LX	48" AFF
	2P TOGGLE SWITCH–THERMAL TYPE – SQUARE "D" CLASS 250 W/ RED PILOT LIGHT & HANDLE GUARD/LOCK OFF WITHOUT OVERLOADS	AS REQUIRED
	LOW VOLTAGE DIMMING WALL SWITCHPOD – SENSOR SWITCH MODEL #P0DM SA	48" AFF
	LARGE MOTION 360° SENSOR LOW VOLTAGE DUAL TECHNOLOGY (PDT) – VACANCY SENSOR – SENSOR SWITCH MODEL #CM PDT 10	CLG.
	LOW VOLTAGE POWER PACK – SENSOR SWITCH MODEL #FP20	ABV. CLG.
	LINE VOLTAGE THERMOSTAT – HONEYWELL # T6051A1016	48" AFF
	POLYMER CONCRETE PULL BOX W/ LOGO COVER – SEE DETAIL	AS REQUIRED

NOTES:
U.N.O. INDICATES UNLESS NOTED OTHERWISE.
18" AFF INDICATES TO TOP OF DEVICE.
48" AFF INDICATES TO TOP OF DEVICE.
ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.
AC INDICATES 4" ABOVE COUNTER TO BOTTOM OF DEVICE.

ELECTRICAL SCOPE OF WORK:

- A. THE FOLLOWING SUMMARY OF WORK IS INTENDED AS AN AID TO ACHIEVE AN UNDERSTANDING OF THE VARIOUS ELEMENTS OF WORK INCLUDED IN THE PROJECT. AS IS NOT INTENDED TO BE ALL-INCLUSIVE. DETAILED DESCRIPTIONS OF WORK AND REQUIREMENTS ARE GIVEN IN DRAWINGS AND SPECIFICATIONS.
- B. SCOPE OF WORK:
1. GENERAL: THE "CITY OF SAN BENITO SOUTHSIDE PARK IMPROVEMENTS" CONSISTS OF NEW SINGLE STORY MULTI-USE CONCESSION/RESTROOM BUILDING APPROXIMATELY 933 S.F.
2. ELECTRICAL: PROVIDE ALL MATERIALS AND LABOR ASSOCIATED WITH COMPLETE OPERATIONAL ELECTRICAL DISTRIBUTION SYSTEM. MAJOR ITEMS OF WORK INCLUDE, BUT ARE NOT LIMITED TO:
- (a) ELECTRICAL SERVICE: CONNECT PROPOSED DISTRIBUTION PANEL. SEE ELECTRICAL RISER DIAGRAM FOR DETAILS.
- (b) LIGHTING SYSTEMS: RESTROOM BUILDING LIGHTING SYSTEMS SHALL CONSIST OF VANDAL RESISTANT LED TYPE. SPORTS LIGHTING FURNISHED BY OTHERS, POLES ERECTED UNDER A SEPARATE CONTRACT. THIS CONTRACTOR TO PROVIDE CONNECTIONS.
- (c) POWER SYSTEMS: PROVIDE MISCELLANEOUS DUPLEX RECEPTACLES AND CONNECTIONS FOR SPLASH PARK AND PLUMBING EQUIPMENT.
- (d) INTRUSION DETECTION SYSTEM: PROVIDE ROUGH-IN ONLY.
- (e) COMMISSIONING: PROVIDE FOR THE LIGHTING EQUIPMENT AND LIGHTING CONTROLS AS REQUIRED PER IECC 2015.

SUBMITTALS –SPECIAL REQUIREMENTS

- A. MANUFACTURER'S STANDARD DIMENSIONED DRAWINGS, PERFORMANCE AND PRODUCT DATA SHALL BE EDITED TO DELETE REFERENCE TO EQUIPMENT, FEATURES, OR INFORMATION, WHICH IS NOT APPLICABLE TO THE EQUIPMENT BEING SUPPLIED FOR THIS PROJECT. INCLUDING BILL OF MATERIALS.
- B. FAXES AND COPIES OF FAXES ARE NOT ACCEPTABLE.
- C. ELECTRICAL SUBMITTALS SHALL BE SUBMITTED ELECTRONICALLY. PLEASE ORGANIZE THE FILES IN PACKAGES AS FOLLOWS (PDF FORMAT). FILES WOULD NEED TO BE PROPERLY IDENTIFIED (COVER LETTER, STAMPED, ETC.) FROM THE GENERAL CONTRACTOR.
1. MISCELLANEOUS ELECTRICAL
- a. 260519 LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES
- b. 260526 GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS
- c. 260529 HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS
- d. 260533 RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS
- e. 260544 SLEEVES AND SLEEVE SEALS FOR ELECTRICAL RACEWAYS AND CABLING
- f. 260553 IDENTIFICATION FOR ELECTRICAL SYSTEMS
- g. 262726 WIRING DEVICES
- h. 262816 ENCLOSED SWITCHES AND CIRCUIT BREAKERS
- i. 260850 HAND DRYER
2. ELECTRICAL GEAR
- a. 262416 PANELBOARDS
3. LIGHT FIXTURES
- a. 265116 INTERIOR LIGHTING
- b. 265621 EXTERIOR LIGHTING
4. SPECIAL SYSTEMS
- a. 267240 INTRUSION DETECTION
5. ELECTRICAL COMMISSIONING
- a. 260800 COMMISSIONING OF ELECTRICAL SYSTEMS

GENERAL SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	DISCONNECT SWITCH – NON FUSED	AS REQUIRED
	EQUIPMENT CONNECTION	AS REQUIRED
	ELECTRICAL PANELBOARD – SURFACE MOUNTED	AS REQUIRED
	UNDERGROUND RACEWAY	AS REQUIRED
	CONCEALED RACEWAY	AS REQUIRED
	CONDUIT OR EMT HOMERUN TO PANELBOARD CONCEALED IN WALLS OR ABOVE CEILING. LONG CROSSMARKS DENOTE NUMBER OF "HOT" CONDUCTORS SHORT CROSSMARKS INDICATE NEUTRALS AND DOTS INDICATE NUMBER OF GROUND CONDUCTORS. ARROW INDICATES HOME RUN TO ELECTRICAL PANEL.	AS REQUIRED
	LOW-PROFILE DAMP RATED COMMERCIAL CEILING FAN WITH STAINLESS STEEL HARDWARE, 5-BLADES AND REVERSIBLE 3-SPEED MOTOR – HUNTER MODEL #531119/WHITE FINISH.	AS REQUIRED

LIGHTING SYMBOL LEGEND:

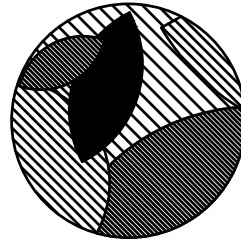
SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	SURFACE /WRAPAROUND LIGHT FIXTURE	-----
	SURFACE /WRAPAROUND EMERGENCY LIGHT FIXTURE CONNECT BATTERY PACK TO BE ON AT ALL TIMES (UNSWITCHED)	-----
	WALL MOUNT LIGHT FIXTURE – TYPE AS NOTED	-----
	DIGITAL ASTRONOMICAL TIME CLOCK WALL MOUNTED – INTERMATIC # ET8015CR	AS REQUIRED

NOTES:
1.) REFERENCE LIGHT FIXTURE SCHEDULE FOR ALL MOUNTING HEIGHTS.

INTRUSION DETECTION SYSTEMS SYMBOL LEGEND:

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	MOTION DETECTOR – PROVIDE BACK BOX WITH 1/2" RACEWAY STUBBED INTO ACCESSIBLE CLG. WITH PULL WIRE.	-----
	DOOR CONTACT – PROVIDE BACK BOX WITH 1/2" RACEWAY STUBBED INTO ACCESSIBLE CLG. WITH PULL WIRE.	-----
	OVERHEAD DOOR CONTACT – PROVIDE BACK BOX WITH 1/2" RACEWAY STUBBED INTO ACCESSIBLE CLG. WITH PULL WIRE.	-----

NOTES:
1.) PRIOR TO ANY ROUGH-IN COORDINATE EXACT LOCATION OF BACK BOXES WITH OWNER.

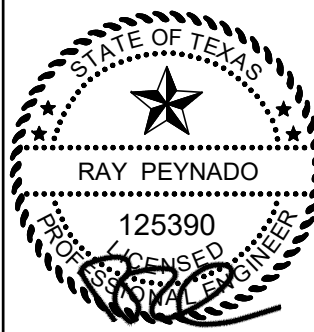


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SOUTH SIDE PARK - B
SAN BENITO, TX

PROJECT:

DESCRIPTION	ISSUED FOR CONSTRUCTION	DATE
		10-04-2018



DATE: 10.04.2018

SHEET TITLE:

ELECTRICAL LEGEND

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PROJECT NUMBER:

A17-02

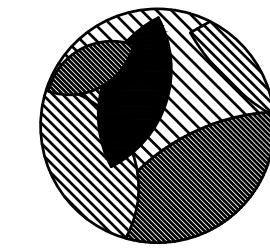
SHEET NUMBER:

E2.01



1. LIGHTING BRANCH CIRCUIT HOMERUNS SHALL BE 3/4" - 2#12 & #12G.
2. 20A/120V HOMERUNS EXCEEDING 100FT THE WIRE SIZE SHALL BE #10 & #8 FOR 175'.
3. EXTERIOR LIGHTING CONTROLS SHALL BE BY TIME CLOCK.
4. EACH 20A/1P BRANCH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL.
5. HOMERUNS - INSTALL NO MORE THAN THREE PER RACEWAY (INCLUDING LIGHTING BRANCH CIRCUITS).
6. PROVIDE ALL ELECTRICAL RECEPTACLES INSTALLED WITH THE GROUND OPENING IN THE "UP" POSTING.
7. ELECTRICAL RACEWAYS: THEY SHALL BE CONCEALED WITHIN WALLS AND CHASES, THEY ARE NOT TO BE EXPOSED.

- 1 CONNECT EMERGENCY BATTERY PACK TO BE CHARGING AT ALL TIMES (UNSWITCHED). LIGHT FIXTURE SHALL BE OPERATED BY THE CORRESPONDING SWITCH - TYPICAL.
- 2 MOUNT LIGHT FIXTURE AT 7"-8" AFF TO TOP OF FIXTURE (UNO) - TYPICAL.
- 3 NO DUCTWORK OR PIPING TO BE ROUTED ABOVE PANELBOARDS. COORDINATE WITH OTHER TRADES - TYPICAL.
- 4 SWITCH VIA ELECTRONIC TIME CLOCK - TYPICAL.
- 5 PROVIDE INFRARED RECESSED MOUNTED HAND DRYER. HAND DRYER SHALL BE EXCEL: XL-SB (NO SUBSTITUTIONS) WITH ADA RECESS KIT. BRANCH CIRCUIT: 1/2" - 2#12 & #12G. MOUNT AT +37" A.F.F. (BOTTOM). VERIFY THE EXACT LOCATION WITH THE ARCHITECTURAL PLANS.
- 6 ALL HOMERUNS NOT CONCEALED IN WALLS AND CHASES TO BE UNDERGROUND, NOT ALLOWED TO BE EMBEDDED IN THE FLOOR SLAB - TYPICAL.
- 7 CONNECT ELECTRIC DRINKING FOUNTAIN; BRANCH CIRCUIT: 1/2" - 2#12 & #12G. ROUGH-IN AT 17-7/16" TO CENTER OF J-BOX. COORDINATE WITH PLUMBING CONTRACTOR.
- 8 PROVIDE PULL BOX FOR COMMUNICATIONS RACEWAY. REFER TO MEP.01 FOR RACEWAYS QUANTITIES AND ROUTES
- 9 PROVIDE 30A, 2PWF, S/N, 240V, NEMA 3R HEAVY DUTY DISCONNECT; BRANCH CIRCUIT 3/4" - 2#12 & #12G; SWITCH VIA TIME CLOCK.
- 10 CONNECT ELECTRONIC TRAP PRIMER. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR.
- 11 CONNECT SPLASH PAD DYNAMIC SEQUENCE CONTROLLER. COORDINATE EXACT LOCATIONS WITH EQUIPMENT SUPPLIER PRIOR TO ANY ROUGH-IN.
- 12 SPORTS LIGHTING CONTROLS CABINET FURNISHED AND INSTALLED BY OTHERS. THIS CONTRACTOR TO CONNECT SPORTS LIGHTING CONTRACTORS.
- 13 PROVIDE 1-1" RACEWAY STUBBED-OUT AND CAPPED FOR SPLASH PAD CONTROL WIRING PROVIDED BY OTHERS. SPLASH PAD CONTRACTOR TO EXTEND RACEWAY AS NEEDED.
- 14 CONNECT VIA EMERGENCY LIGHTING INVERTER "INV" - TYPICAL.

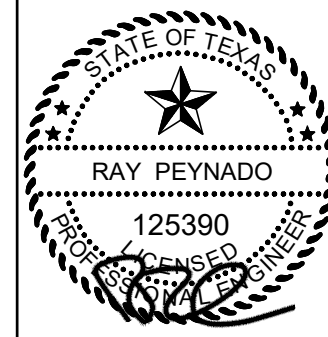


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ECT: SOUTH SIDE PARK - B
CAN DENITO TV

ECT:

DATE	DESCRIPTION
10-04-2018	ISSUED FOR CONSTRUCTION



DATE: 10.04.2018

THE

LIGHTING & ELECTRICAL PLAN

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PROJECT NUMBER:

SHEET NUMBER:

E3.01



119 W. VAN BUREN AVE. STE. 101
PHONE: 956-230-3435
TEXAS REGISTERED
ENGINEERING FIRM
F-15998

MDP

ROOM MOUNTING SURFACE FED FROM UTILITY NOTE		VOLTS 208Y/120V 3P 4W BUS AMPS 400 NEUTRAL 100%				AIC 22,000 MAIN BKR 350 LUGS STANDARD					
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B	C				A	B	C
1	30/2	POLE S1	2.55			2	30/2	POLE S3	2.55		
3				2.55		4				2.55	
5	30/2	POLE S2			2.55	6	30/2	POLE S4			2.55
7			2.55			8			2.55		
9	30/2	FUTURE POLE		2.55		10	30/2	FUTURE POLE		2.55	
11					2.55	12					2.55
13	30/2	FUTURE POLE	2.55			14	30/2	FUTURE POLE	2.55		
15				2.55		16				2.55	
17	30/2	FUTURE POLE			2.55	18	30/2	FUTURE POLE			2.55
19			2.55			20			2.55		
21	30/2	FUTURE POLE		2.55		22	30/2	FUTURE POLE		2.55	
23					2.55	24					2.55
25	20/1	SPARE	0			26	125/2	PANEL RR	13.1		
27	20/1	SPARE		0		28				10	
29	20/1	SPARE			0	30	20/1	SPORTS LIGHTING CONTACTOR			0.1
31	20/1	SPARE	0			32	20/1	SPARE	0		
33	20/1	SPARE		0		34	20/1	SPARE		0	
35	20/1	SPARE			0	36	20/1	SPARE			0
37	20/1	SPARE	0			38	20/1	SPARE	0		
39	20/1	SPARE		0		40	20/1	SPARE		0	
41	20/1	SPARE			0	42	20/1	SPARE			0
						TOTAL CONNECTED KVA BY PHASE			33.5	30.4	20.5
			CONN KVA CALC KVA						CONN KVA CALC KVA		
LIGHTING			62	77.4	(125%)	CONTINUOUS			0.1	0.125	(125%)
LARGEST MOTOR			0.04	0.05	(125%)	HEATING			0	0	(N/A)
OTHER MOTORS			0.04	0.04	(100%)	COOLING			0	0	(N/A)
RECEPTACLES			19.3	14.7	(50%>10)	NONCONTINUOUS			3	3	(100%)
KITCHEN EQUIP			0	0	(N/A)	DIVERSE			0	0	(N/A)
						METERED DEMAND			0	0	(125%)
						TOTAL KVA			84.5	95.3	
						BALANCED 3-PHASE AMPS				265	

1. PROVIDE A NEMA 3R OUTDOOR ENCLOSURE

RR

ROOM STORAGE ROOM			VOLTS 208/120V 2P 3W			AIC 10,000				
MOUNTING SURFACE			BUS AMPS 225			MAIN BKR 125				
FED FROM MDP			NEUTRAL 100%			LUGS STANDARD				
NOTE PROVIDE A TYPEWRITTEN AS-BUILT CIRCUIT SCHEDULE, INCLUDE ROOM NAMES/NUMBERS.										
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		
			A	B				A	B	
1	20/1	LIGHTING	0.61		2	20/1	HAND DRYER	1.5		
3	20/1	LIGHTING		0.14	4	20/1	HAND DRYER		1.5	
5	20/1	RECEPT.	1.5		6	20/1	HAND DRYER	1.5		
7	20/1	RECEPT.		1.5	8	20/1	DRINKING FOUNTAIN		0.8	
9	20/1	RECEPT.	1.5		10	20/1	RECEPT., TRAP PRIMER	0.73		
11	20/1	RECEPT.		1.5	12	20/2	EW-H-1		1.5	
13	20/1	REFRIG	1.2		14			1.5		
15	20/1	RECEPT.		1.5	16	20/1	CEILING FANS		0.08	
17	20/1	RECEPT.	1.5		18	20/1	SPARE	0		
19	20/1	RECEPT.		1.5	20	20/1	SPARE		0	
21	20/1	SPARE DYNAMIC SEQUENCE CONTROLLER	1.6		22	20/1	SPARE	0		
23	20/1	SPARE		0	24	20/1	SPARE		0	
25	20/1	SPARE	0		26	20/1	SPARE	0		
27	20/1	SPARE		0	28	20/1	SPARE		0	
29	20/1	SPARE	0		30	20/1	SPARE	0		
TOTAL CONNECTED KVA BY PHASE								13.1	10	
			CONN KVA	CALC KVA				CONN KVA	CALC KVA	
LIGHTING			0.75	0.938	(125%)	CONTINUOUS			0	0
LARGEST MOTOR			0.04	0.05	(125%)	HEATING			0	0
OTHER MOTORS			0.04	0.04	(100%)	COOLING			0	0
RECEPTACLES			19.3	14.7	(50%>10)	NONCONTINUOUS			3	3
KITCHEN EQUIP			0	0	(N/A)	DIVERSE			0	0
						METERED DEMAND			0	0
						TOTAL KVA			23.2	18.7
						BALANCED AMPS				89.9

LUMINAIRE SCHEDULE

CALLOUT	LAMP	DESCRIPTION	DRIVER	MOUNTING	MODEL	INPUT WATTS	VOLTS	NOTE
A	LED	4' VANDAL RESISTANT WRAPAROUND	0-10V	SURFACE	KENALL: MLHA8-48-R-MW-CP-45L40K-DCC-DV LAMAR: AVRL-X-40-PW	50	120V 1P 2W	PROVIDE UL LISTED FOR DAMP LOCATIONS.
AE	LED	4' VANDAL RESISTANT WRAPAROUND	0-10V	SURFACE	KENALL: MLHA8-48-R-MW-CP-45L40K-DCC-DV LAMAR: AVRL-X-40-PW	50	120V 1P 2W	PROVIDE UL LISTED FOR DAMP LOCATIONS AND CONNECT TO EMERGENCY LIGHTING INVERTER.
B	LED	WALLPACK	0-10V	SURFACE	KENALL: H1212EL-PP-DB-20L40K-DV LSI: TMWP-43W-45K-BZ-PC120	20	120V 1P 2W	PROVIDE UL LISTED FOR WET LOCATIONS. FINISH TBD.
BE	LED	WALLPACK	0-10V	SURFACE	KENALL: H1212EL-PP-DB-20L40K-DV-LEL LSI: TMWP-43W-45K-BZ-PC120-EB	20	120V 1P 2W	PROVIDE UL LISTED FOR WET LOCATIONS AND WITH AN EMERGENCY BATTERY PACK. FINISH TBD.
C	LED	48" LED STRIP LIGHT	0-10V	SURFACE	LITHONIA: ZL1N L48 3000LM FST MVOLT 40K 80CRI WH LSI: SDL 4 LED LW CW UE	42	120V 1P 2W	PROVIDE WITH A 0-10V DIMMING DRIVER.
CE	LED	48" LED STRIP LIGHT	0-10V	SURFACE	LITHONIA: ZL1N L48 3000LM FST MVOLT 40K 80CRI WH ETW LSI: SDL 4 LED LW CW UE EM	42	120V 1P 2W	PROVIDE WITH A 0-10V DIMMING DRIVER, AND AN EMERGENCY BATTERY PACK.

GENERAL NOTES:
1. OTHER LIGHT FIXTURE AND BALLAST MANUFACTURERS THAN THOSE LISTED ON THIS SCHEDULE ARE REQUIRED TO OBTAIN PRIOR APPROVAL BY SUBMITTING CUT SHEETS OF THEIR SUBSTITUTIONS AT LEAST (10) DAYS PRIOR TO BID. CUT SHEETS SHALL INDICATE/HIGHLIGHT PHOTOMETRIC CURVE, EFFICIENCY & CONSTRUCTION FOR DIRECT COMPARISON WITH SPECIFIED FIXTURES AND BALLAST.
2. EXTRA MATERIALS: SEE SPECIFICATIONS.
3. EMERGENCY BATTERY PACKS SHALL BE COMPLETE FACTORY INSTALLED WITH NI-CAD BATTERY, CHARGER INDICATING LIGHT, ELECTRONIC CIRCUITRY, 1400 LUMENS OUTPUT, 90 MINUTES DURATION & FIVE FULL YEARS WARRANTY.
4. FURNISH ALL 2" X 4" LAY-IN LIGHT FIXTURES WITH INTEGRAL CEILING CLIPS.



01 LIGHT FIXTURE TYPE "A"

SCALE : NOT TO SCALE



02 LIGHT FIXTURE TYPE "B & BE"

SCALE : NOT TO SCALE



03 LIGHT FIXTURE TYPE "C"

SCALE : NOT TO SCALE

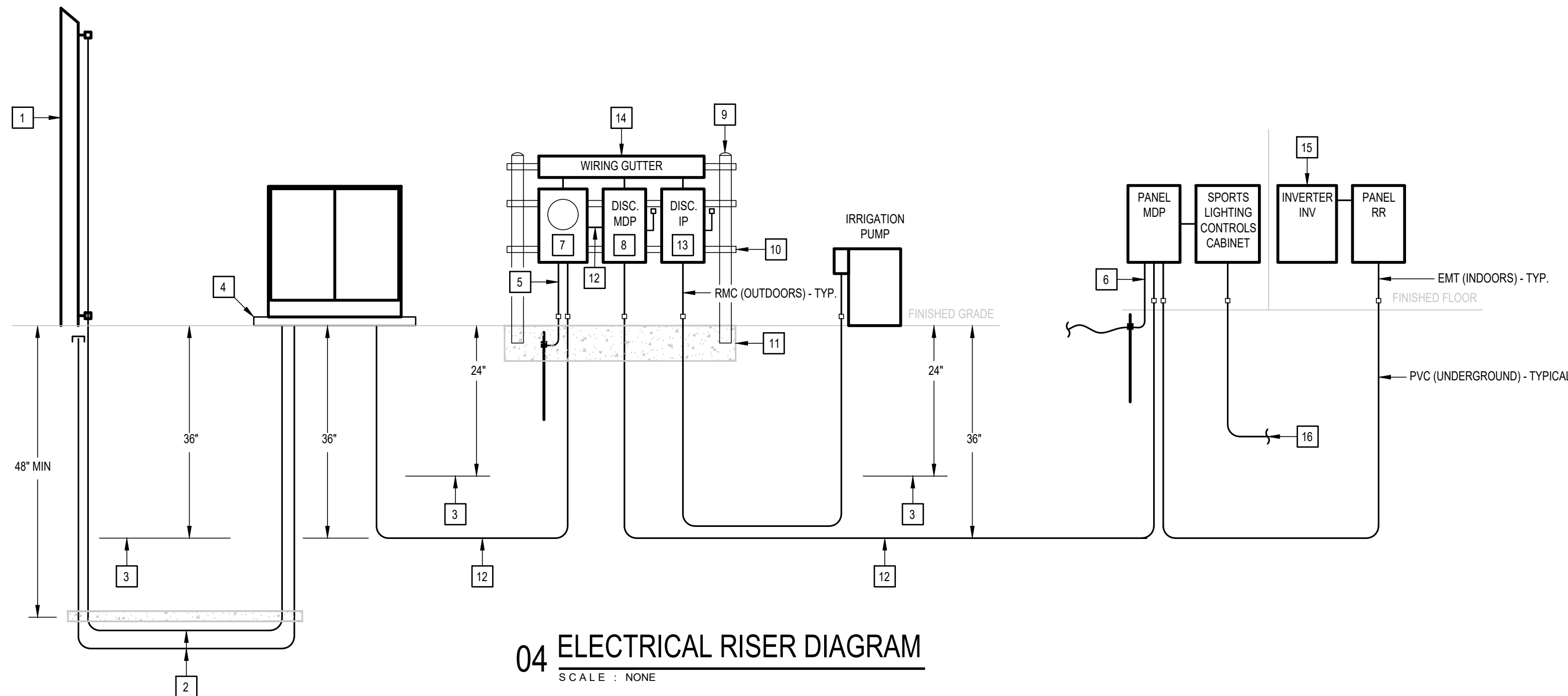
FEEDER SCHEDULE:

FEEDER AMPS	CONDUIT AND FEEDER	FEEDING THESE DEVICES
400	4" - 4#600KCMIL	METER
400	4" - 4#600KCMIL & #3G	WIRING GUTTER
350	4" - 4#500KCMIL & #3G	DISC. MDP, MDP
125	1.5" - 3#1 & #6G	RR
30	1" - 3#10 & #10G	DISC. IP, IRRIGATION PUMP
20	1/2" - 2#12 & #12G	INV

SIZING METHOD: COPPER 75°C
INCREASED CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP
INCREASED CONDUIT SIZE TO REDUCE PULL TENSION

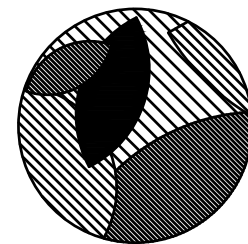
ELECTRICAL RISER DIAGRAM
KEYED NOTES:

- PROPOSED ELECTRIC UTILITY RISER POLE BY ELECTRIC UTILITY COMPANY.
- PROVIDE (2)-4" PVC RACEWAYS WITH LONG SWEEP RADIUS ELBOWS AND 4" RED CONCRETE TOPPING. PRIMARY CONDUCTORS BY ELECTRIC UTILITY COMPANY.
- PROVIDE CONTINUOUS DETECTABLE UNDERGROUND WARNING TAPE.
- PROVIDE UTILITY TRANSFORMER CONCRETE PAD - SEE DETAIL 01/E5.01.
- PROVIDE 1/2" - #4G, 3/4"x10' COPPER CLAD GROUND ROD AND CLAMP.
- PROVIDE 1/2" - #6G, 3/4"x10' COPPER CLAD GROUND ROD AND CLAMP. CADWELD TO FOUNDATION REBAR, BUILDING STEEL AND COPPER WATER LINE.
- PROVIDE METER SOCKET, METER BY ELECTRIC UTILITY COMPANY.
- PROVIDE 400A, 3P3F, 350AF, 240V, S/N, NEMA 4X SS HEAVY DUTY DISCONNECT.
- 4" DIA. X 6' (ABOVE GROUND) HOT DIP GALVANIZED STEEL PIPE WITH CAP.
- 3-1/4" X 1-5/8", 12 GAUGE UNISTRUT, HOT DIP GALVANIZED AFTER FABRICATION.
- 2"WIDE X 6'LONG X 2'DEEP (4" ABOVE GRADE) CONCRETE FOOTING WITH #4 REBAR WELDED ON TO 4" DIA. STEEL PIPE.
- PROVIDE SECONDARY FEEDER - SEE FEEDER SCHEDULE; PROVIDE WITH 4" RED CONCRETE TOPPING ABOVE BURIED FEEDERS.
- PROVIDE 30A, 3P3F, 30AF, 240V, S/N, NEMA 4X SS HEAVY DUTY DISCONNECT.
- PROVIDE A NEMA 4X SS RAIN TIGHT WIRING GUTTER WITH HINGED FRONT COVER AND 80% FREE AREA.
- PROVIDE 350VA EMERGENCY LIGHTING INVERTER MYERS MODEL NO. LV-350-R-1-B-20-1.
- PROVIDE SPORTS LIGHTING BRANCH CIRCUITS. SEE MEP SITE PLAN.



04 ELECTRICAL RISER DIAGRAM

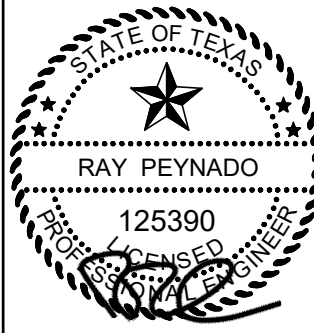
SCALE : NONE



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SOUTH SIDE PARK - B
SAN BENITO, TX

PROJECT:

DESCRIPTION
ISSUED FOR CONSTRUCTIONDATE
10-04-2018

DATE: 10.04.2018

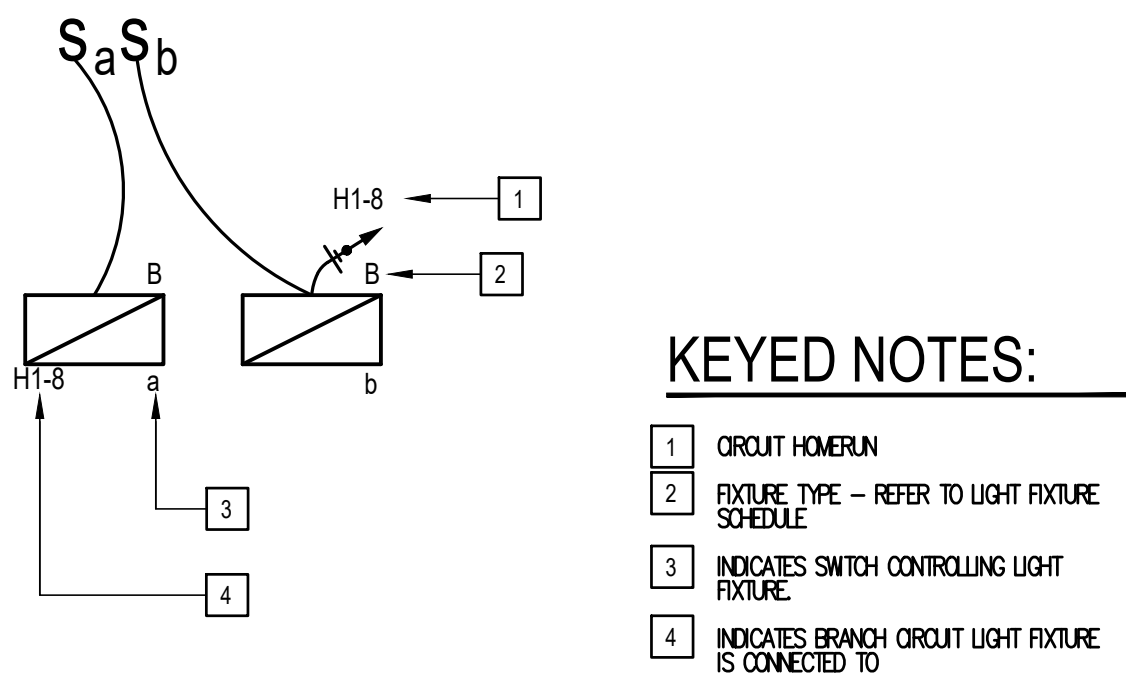
SHEET TITLE:
ELECTRICAL RISER &
SCHEDULES

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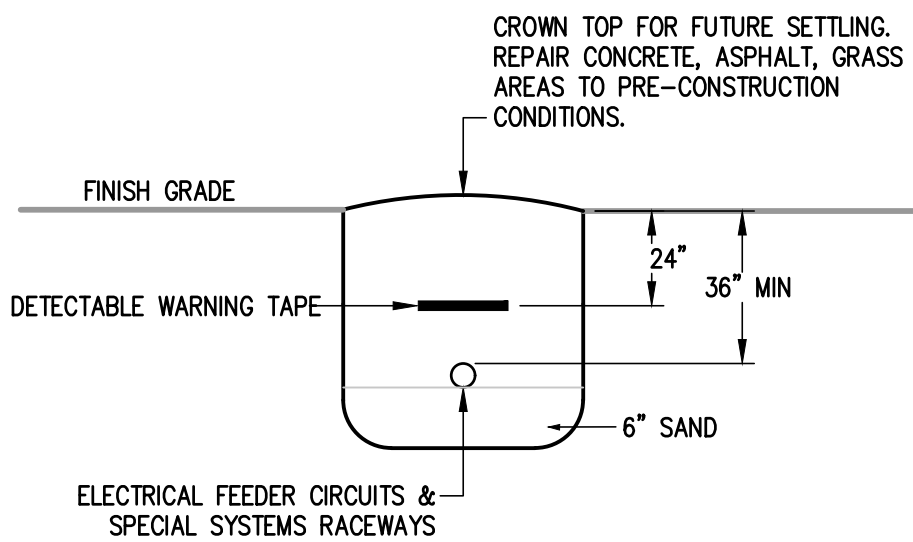
PROJECT NUMBER:
A17-02

SHEET NUMBER:

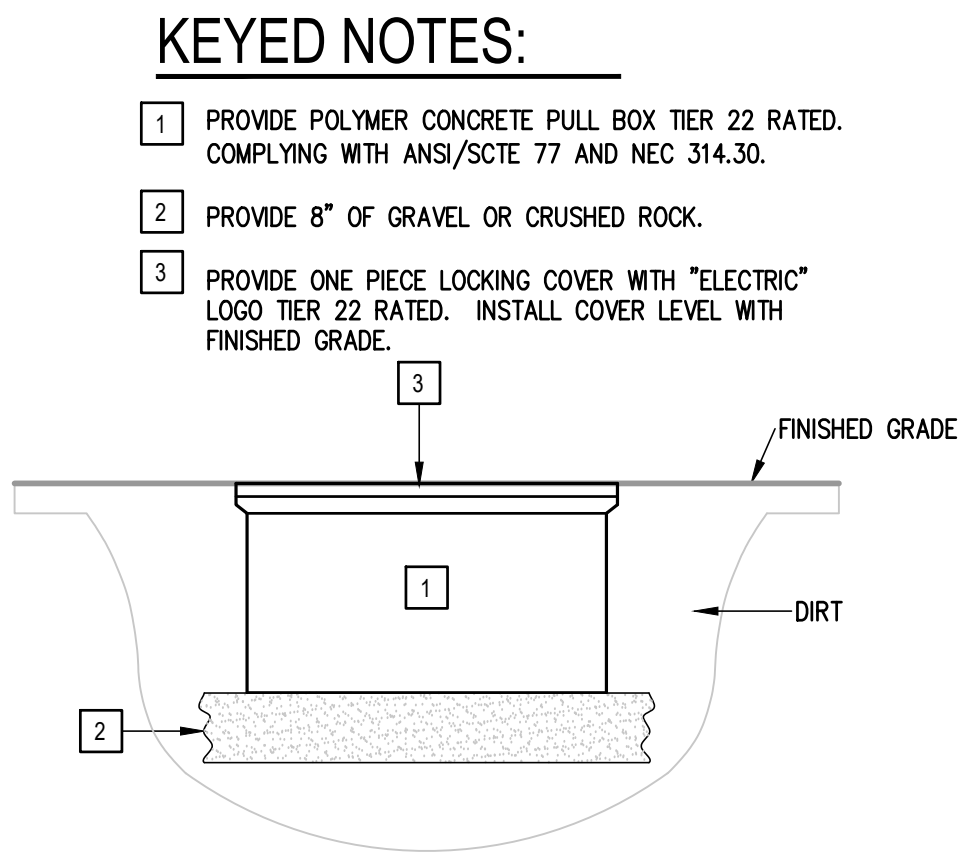
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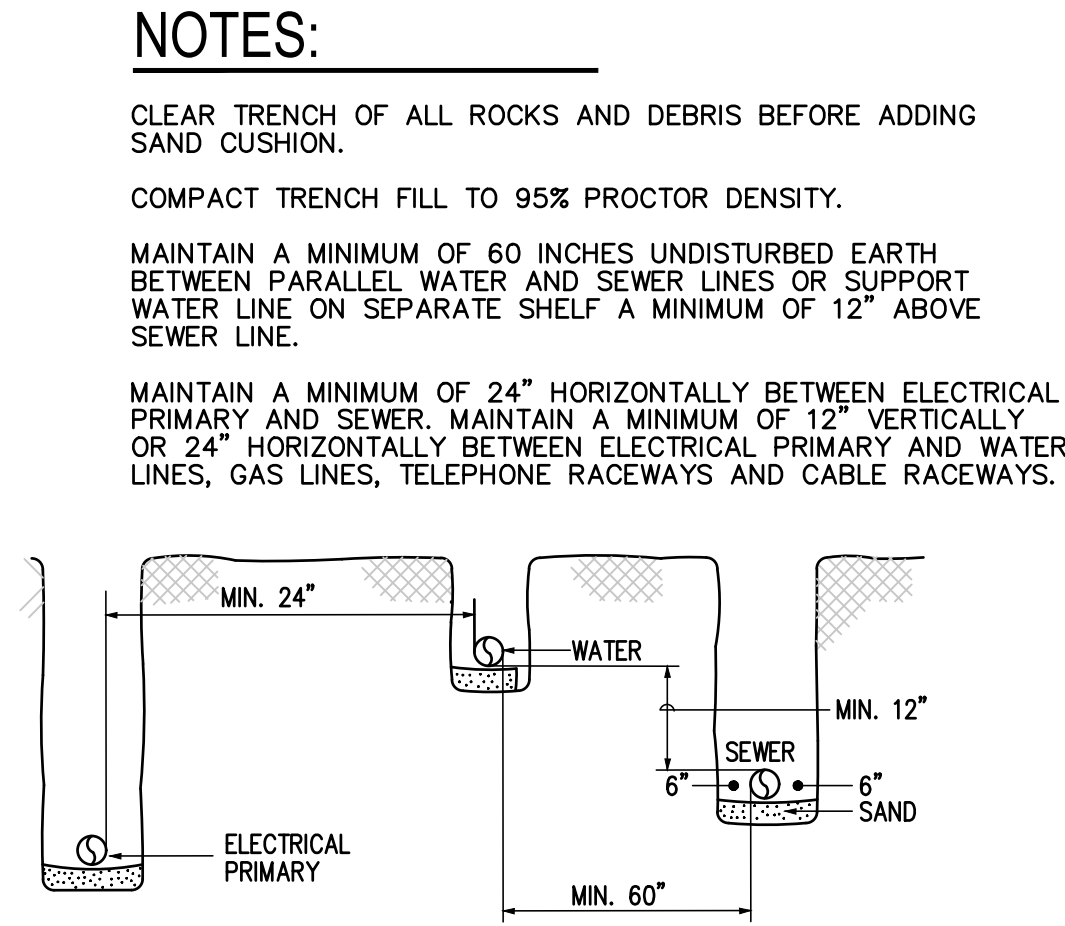
01 LIGHTING LEGEND DETAIL
SCALE : NOT TO SCALE



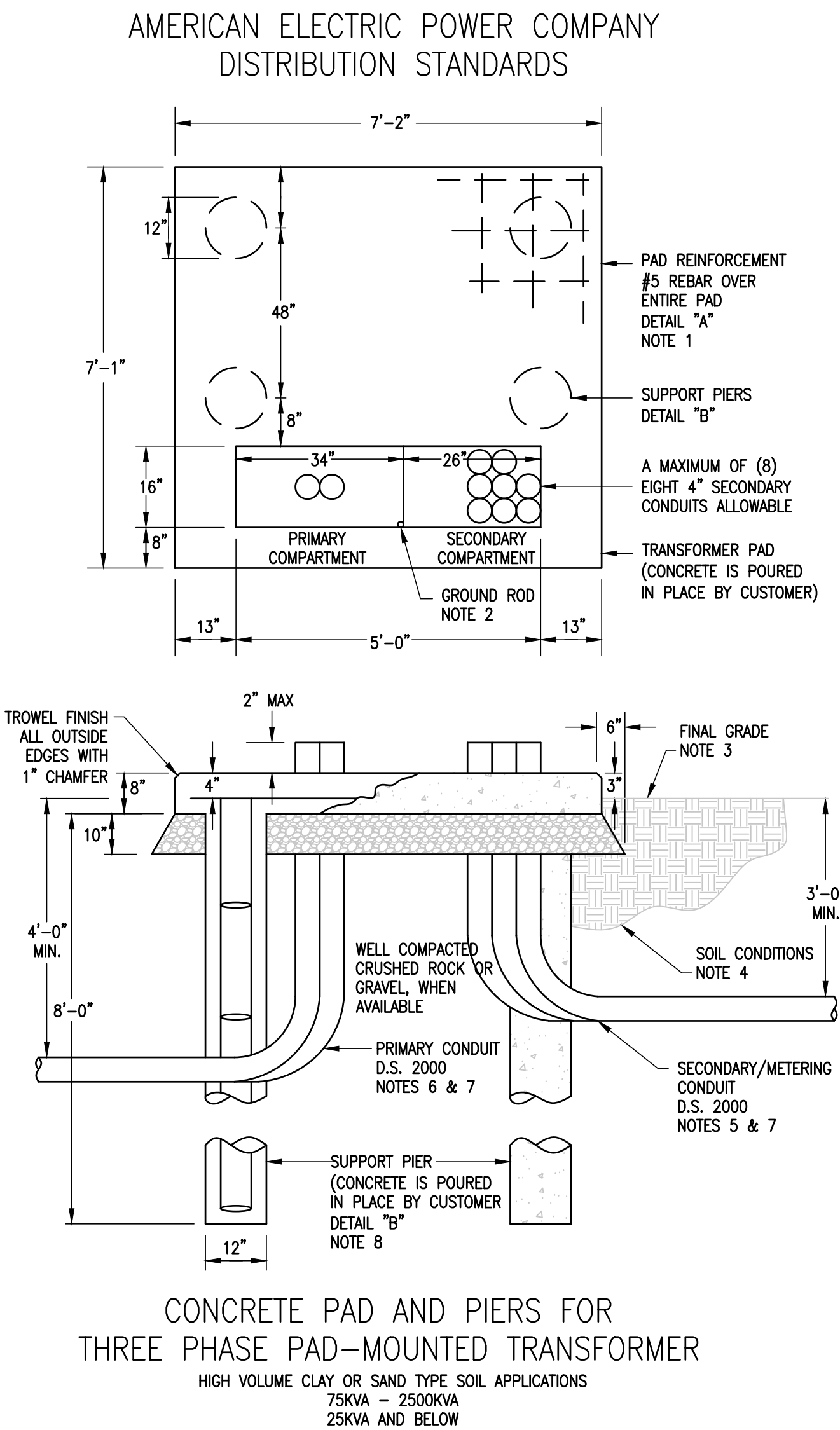
02 BURIAL DETAIL FOR ELECTRICAL RACEWAYS
SCALE : NONE



03 POLYMER CONCRETE PULLBOX DETAIL
SCALE : NONE

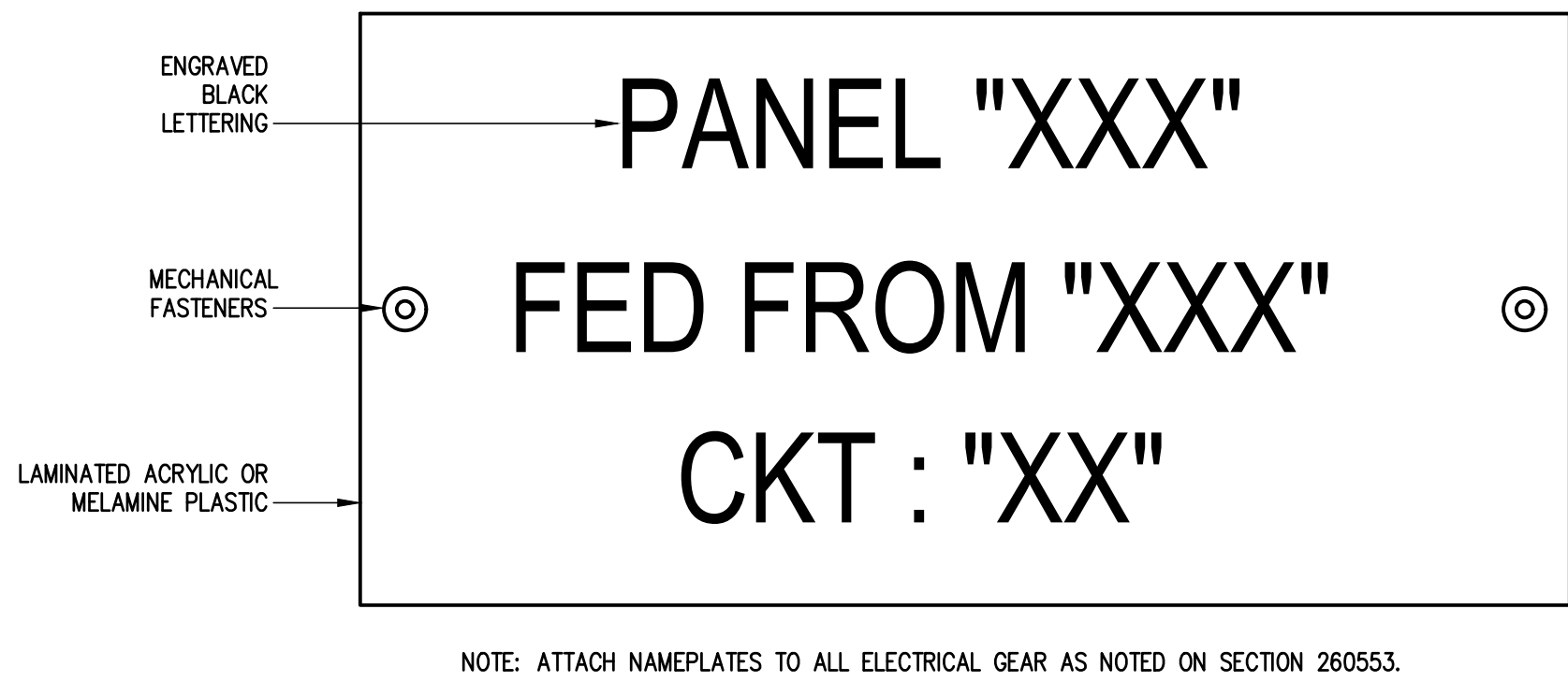
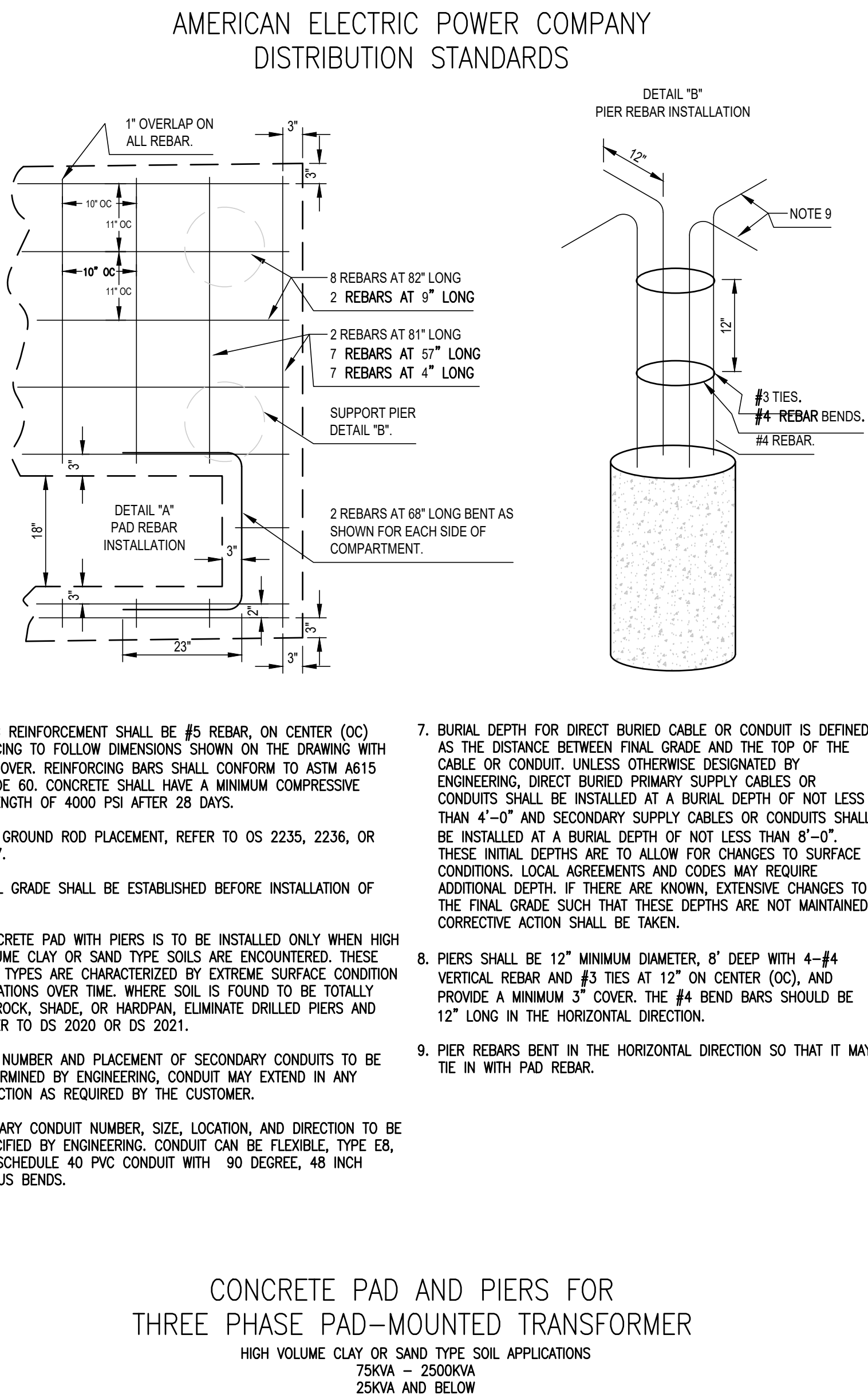


04 TRENCHING DETAIL
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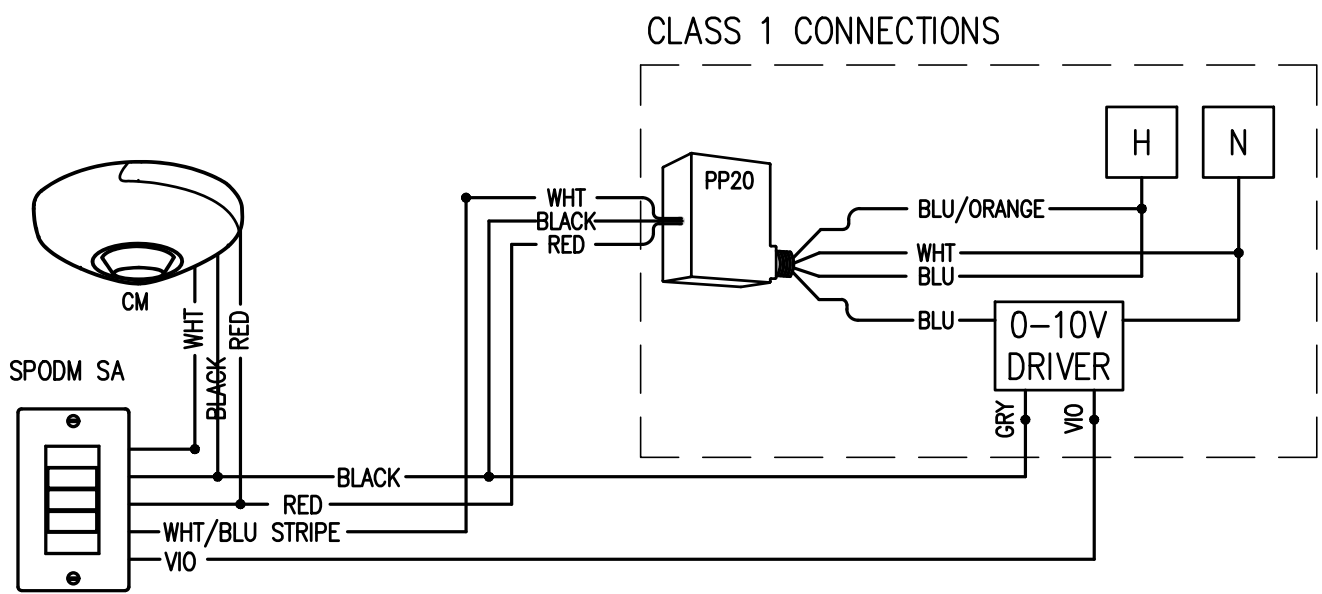


REV	SCALE	N.T.S.	APP	DATE	8-16-1999	TP	U03-009.0
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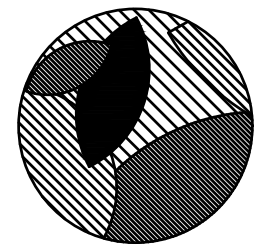
05 AEP TRANSFORMER CONCRETE PAD DETAIL
SCALE : NOT TO SCALE



06 EQUIPMENT IDENTIFICATION LABEL DETAIL
SCALE : NOT TO SCALE



07 VACANCY WALL SWITCH DETAIL
SCALE : NOT TO SCALE



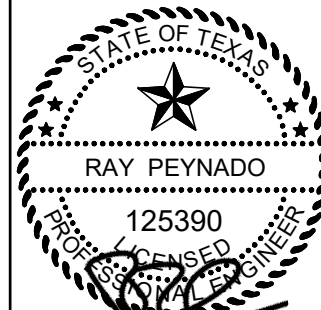
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SOUTH SIDE PARK - B
SAN BENITO, TX

PROJECT:

DESCRIPTION
ISSUED FOR CONSTRUCTION

DATE
10-04-2018



DATE: 10.04.2018

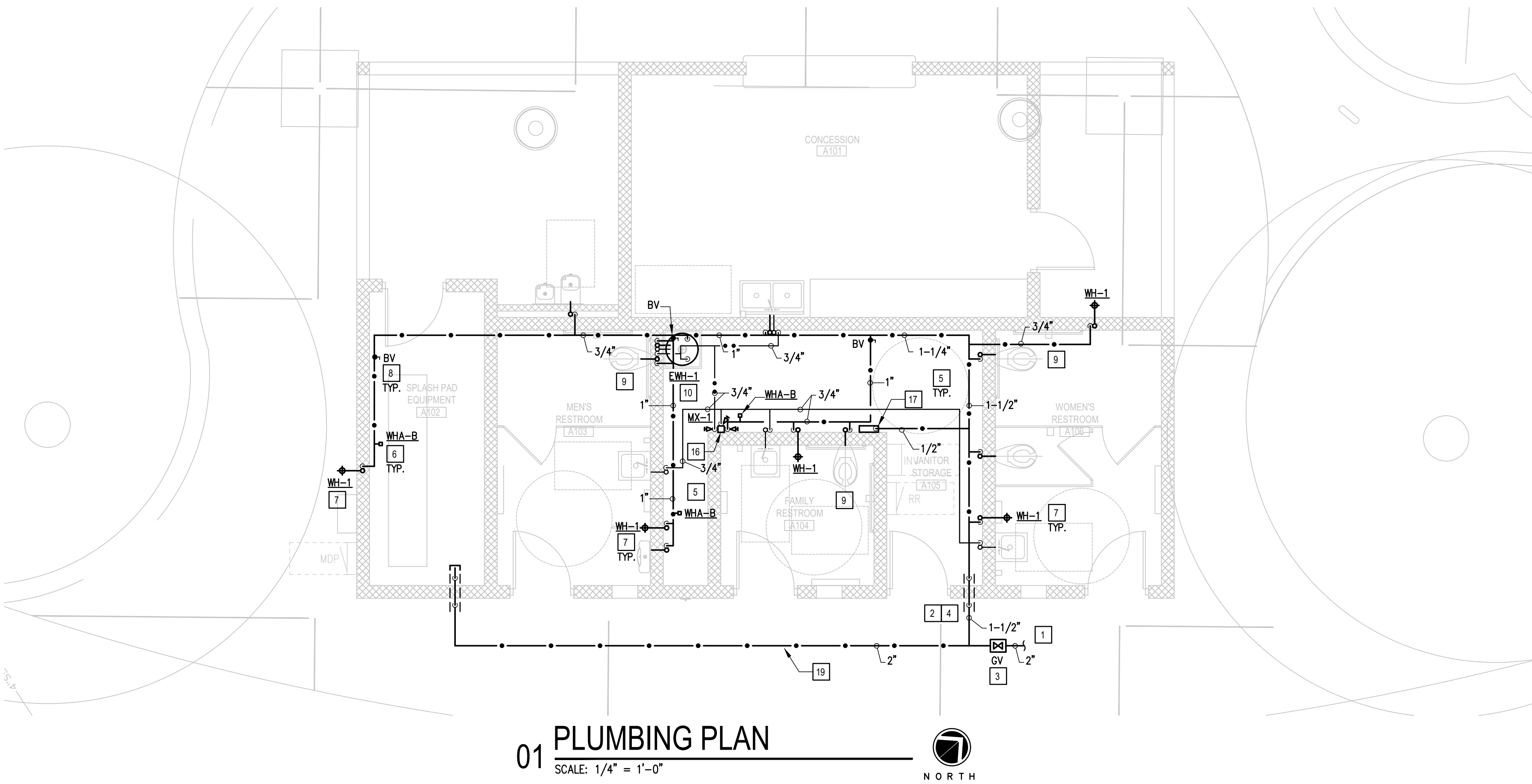
SHEET TITLE:
ELECTRICAL DETAILS

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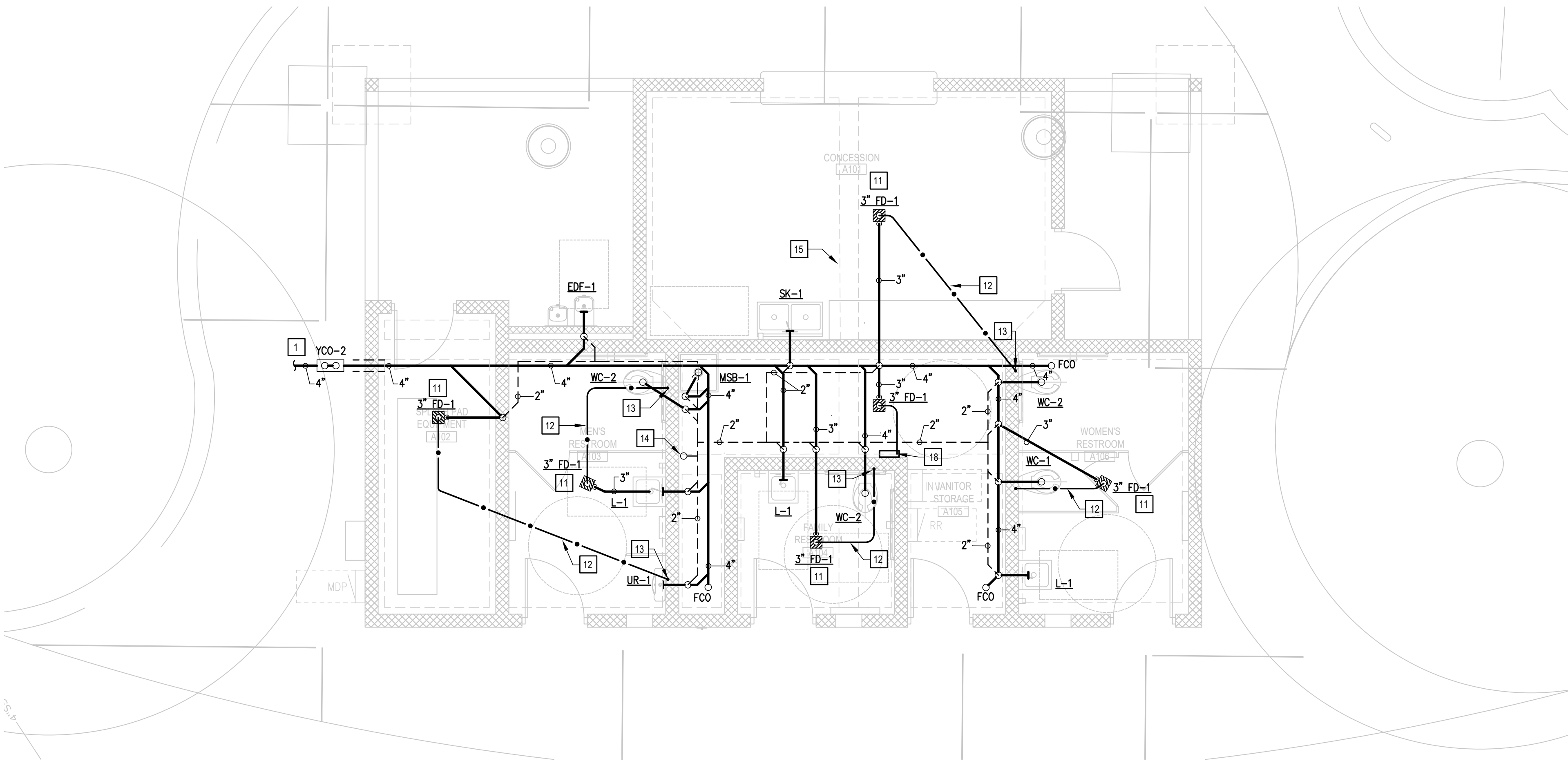
PROJECT NUMBER:
A17-02

SHEET NUMBER:

E5.01



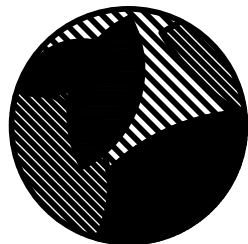
01 PLUMBING PLAN
SCALE: 1/4" = 1'-0"



02 WASTE & VENT PLAN
SCALE: 1/4" = 1'-0"

PLUMBING KEYED NOTES:

- 1 REFER TO MEP SITE PLAN FOR CONTINUATION.
- 2 SLEEVE ALL GRADE BEAMS, FLOOR SLABS AND MASONRY WALL PENETRATIONS PER DETAIL WHETHER SPECIFICALLY INDICATED ON PLANS OR NOT.
- 3 PROVIDE GATE VALVE IN QUAZITE BOX. SEE ASSOCIATED DETAIL ON DETAIL SHEET.
- 4 PROVIDE 1" CLOSED-CELL INSULATION WITH METAL JACKET ON EXPOSED PIPING. PENETRATE EXTERIOR WALL AS LOW AS POSSIBLE. TURN DOWN TO UNDERGROUND.
- 5 PROVIDE PIPING SUPPORT AS PER SPECS AND DETAIL. SEE ASSOCIATED DETAIL ON DETAIL SHEET - TYPICAL.
- 6 PROVIDE WATER HAMMER ARRESTOR (WHA), MIFAB OR APPROVED EQUAL. INDICATED MODEL (A,B,C,D,E,F) AS PER MIFAB SIZING CHART. PROVIDE 12"x12" ACCESS PANEL WHERE INSTALLED IN AN INACCESSIBLE AREA. ACCESS PANEL EQUAL TO ACUDOR MODEL UF5000 WITH CYLINDER LOCK AND KEY AND PAINT TO MATCH THE WALL/CEILING. (TYPICAL)
- 7 PROVIDE WALL HYDRANT AS SCHEDULED. PROVIDE CLOSE COUPLED HYDRANT TO ENSURE PIPE TURNS UP INSIDE BLOCK WALL. COORDINATE WALL THICKNESS WITH WALL HYDRANT MANUFACTURER DATA - TYPICAL.
- 8 PROVIDE BRONZE ISOLATION BALL VALVE ABOVE CEILING OR BEHIND WALL. PROVIDE 12"x12" ACCESS PANEL WHERE INSTALLED IN AN INACCESSIBLE AREA. ACCESS PANEL EQUAL TO ACUDOR MODEL UF5000 WITH CYLINDER LOCK AND KEY AND PAINT TO MATCH THE WALL/CEILING. PROVIDE VALVE IDENTIFICATION TAGS AS PER SPECIFICATIONS. (TYPICAL)
- 9 INSTALL WATER CLOSET FLUSH VALVE HANDLE TOWARDS WIDE SIDE OF THE ROOM. COORDINATE WITH GENERAL CONTRACTOR.
- 10 PROVIDE ELECTRIC WATER HEATER AS SCHEDULED.
- 11 PROVIDE FLOOR DRAIN AS SCHEDULED. SET FLUSH WITH FINISHED FLOOR. SEE ASSOCIATED DETAIL ON DETAIL SHEET.
- 12 1/2" SOFT DRAWN COPPER FROM TRAP-PRIMER. ENCASE PIPING INSIDE WALL AND UNDER FLOOR SLAB IN POLYETHYLENE SLEEVE. *POLY-SLEEVE" OR EQUAL.
- 13 CONNECT TO WATER CLOSET (WC) FLUSH VALVE TRAP-PRIMER. SEE ASSOCIATED DETAIL ON DETAIL SHEET.
- 14 PROVIDE 3" VENT PIPING THRU ROOF.
- 15 STRUCTURAL FOUNDATION SHOWN FOR REFERENCE AND COORDINATION PURPOSES. REFER TO STRUCTURAL DRAWINGS FOR MORE DETAILS. DO NOT ROUTE VENT PIPING INSIDE THE GRADE BEAMS. (TYPICAL).
- 16 PROVIDE THERMOSTATIC MIXING VALVE AS SCHEDULED.
- 17 PROVIDE ELECTRONIC TRAP PRIMER PPP MODEL MPB-500-115V OR APPROVED EQUAL. PROVIDE RECESSED MOUNT CABINET WITH ACCESS DOOR. PROVIDE A COPPER DISTRIBUTION MANIFOLD, WITH 4 OUTLETS, AND CAP UNUSED OUTLETS. SEE ASSOCIATED DETAIL ON DETAIL SHEET.
- 18 CONNECT TO ELECTRONIC TRAP PRIMER VALVE DISTRIBUTION MANIFOLD. SEE ASSOCIATED DETAIL ON DETAIL SHEET.
- 19 PROVIDE 2" DOMESTIC WATER TO SERVE SPLASH EQUIPMENT.



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SOUTH SIDE PARK - B
SAN BENITO, TX

PROJECT:

DATE	DESCRIPTION	ISSUED FOR CONSTRUCTION
10-04-2018		



DATE: 10.04.2018

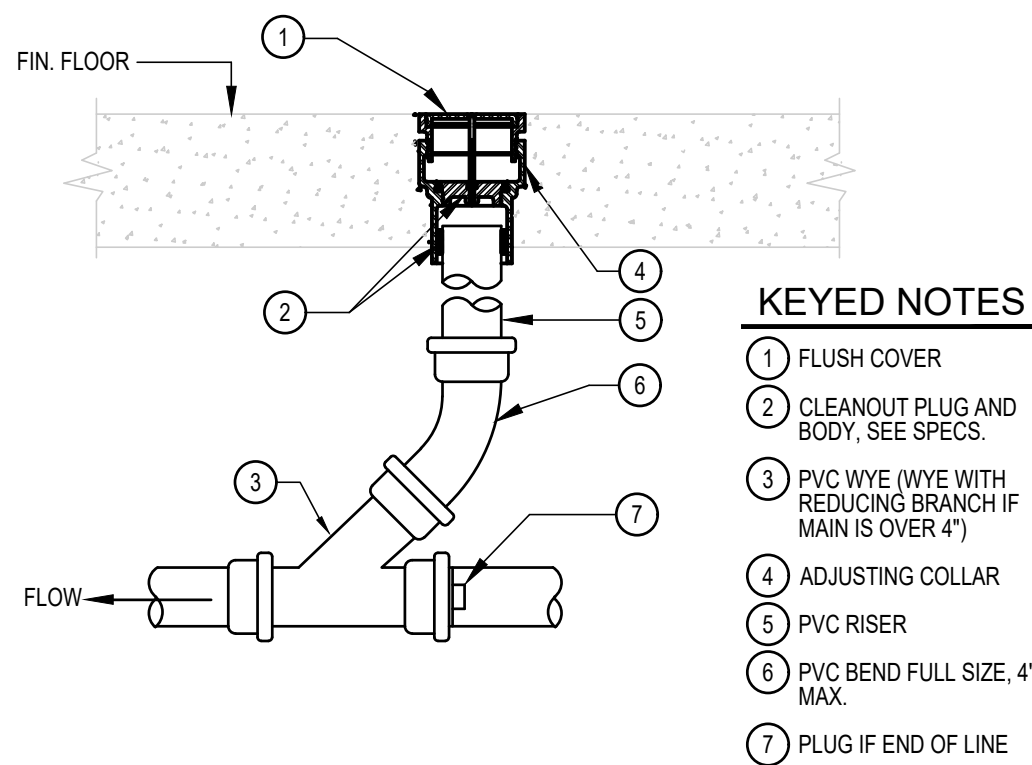
SHEET TITLE:
PLUMBING PLAN

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PROJECT NUMBER:
A17-02

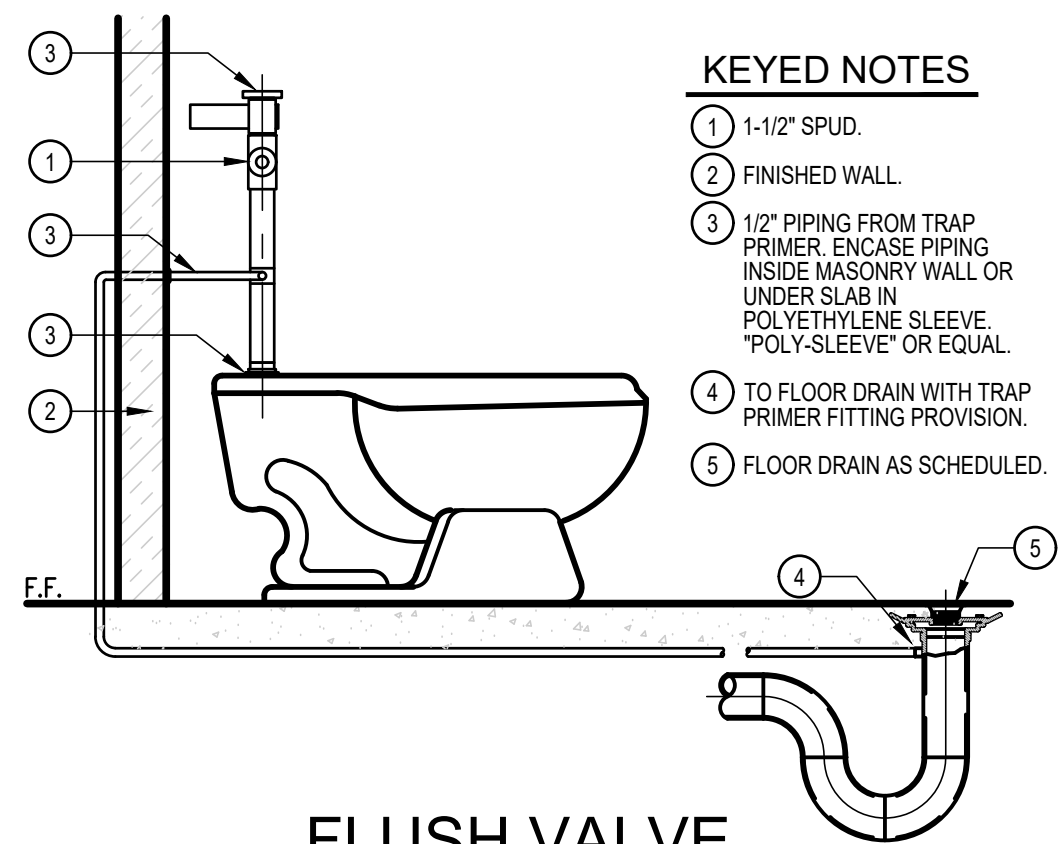
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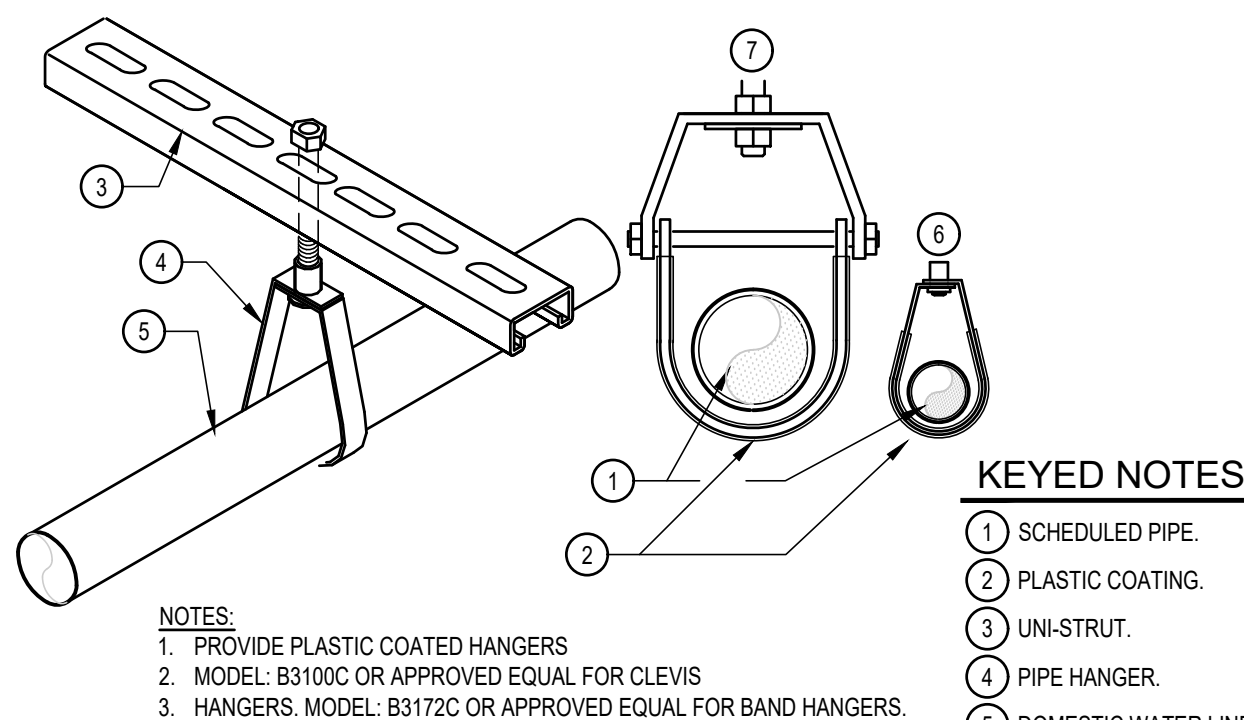
01 FLOOR CLEANOUT DETAIL

SCALE : NOT TO SCALE



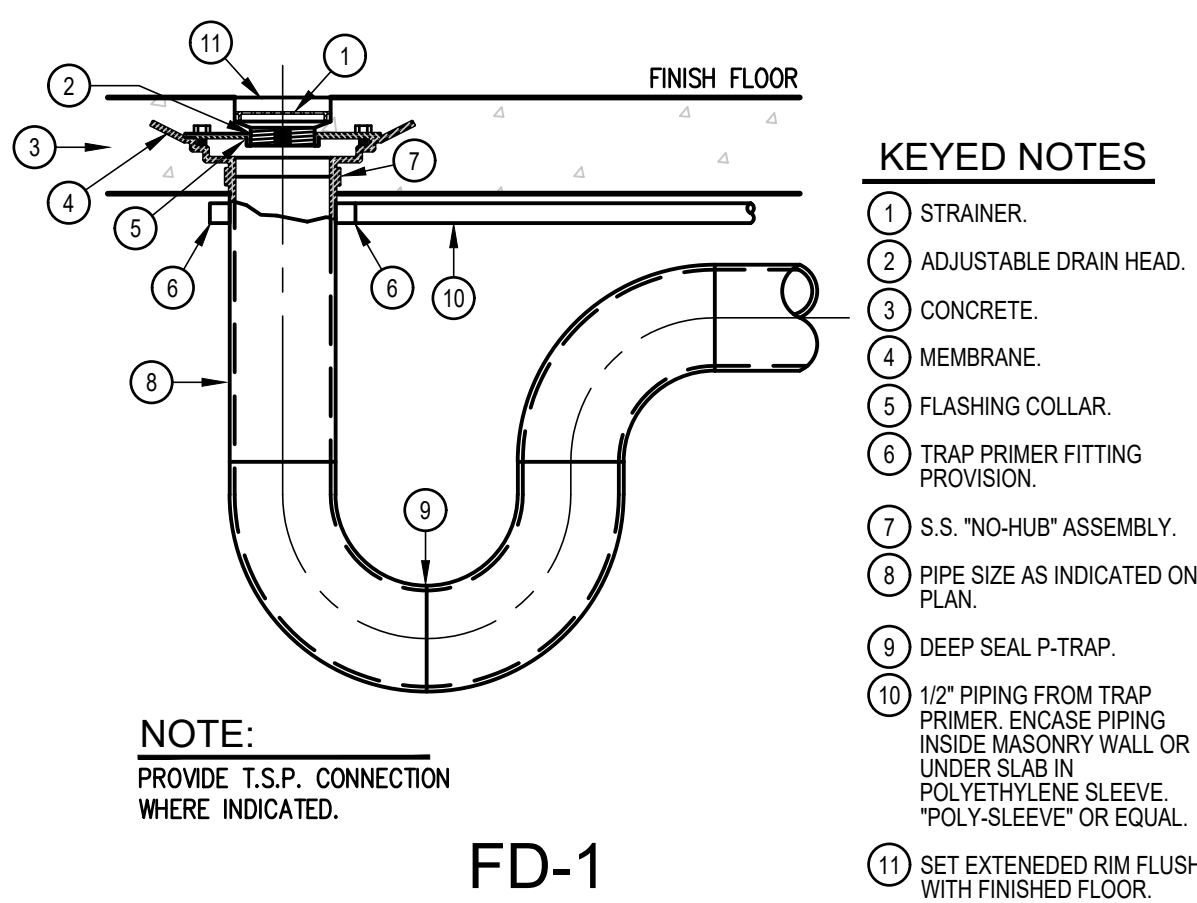
03 TRAP PRIMER DETAIL

SCALE : NOT TO SCALE



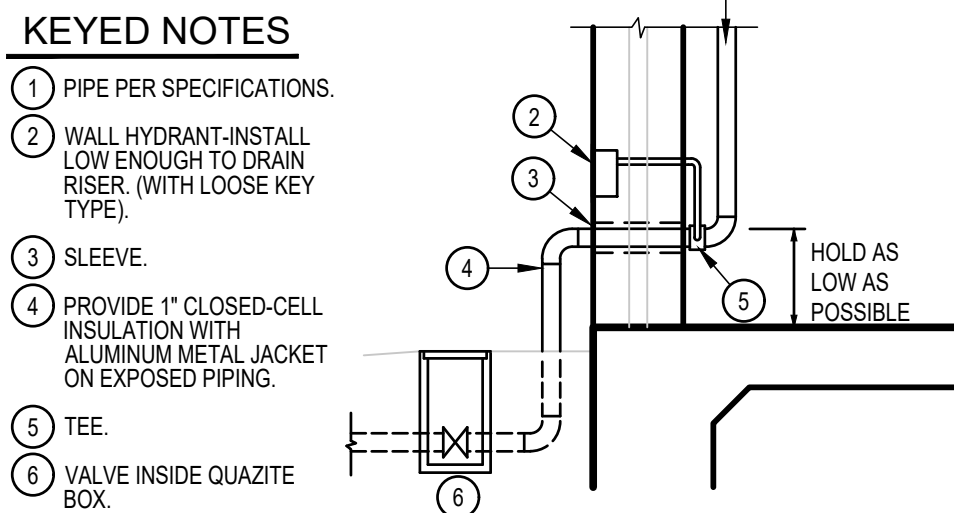
05 DOMESTIC WATER LINE PIPING SUPPORT DETAIL

SCALE : NOT TO SCALE



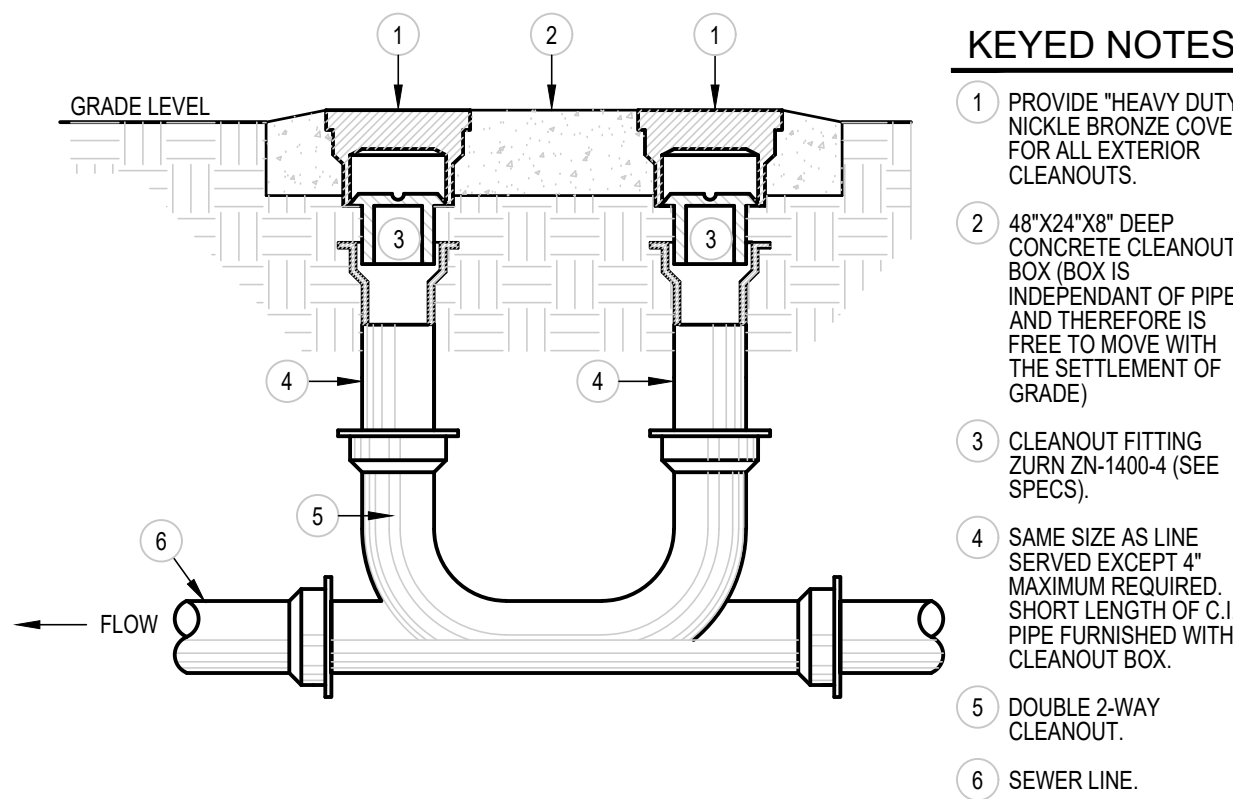
07 FLOOR DRAIN WITH TRAP PRIMER DETAIL

SCALE : NOT TO SCALE



02 WATER ENTRANCE DETAIL

SCALE : NOT TO SCALE



04 2-WAY YARD CLEANOUT DETAIL

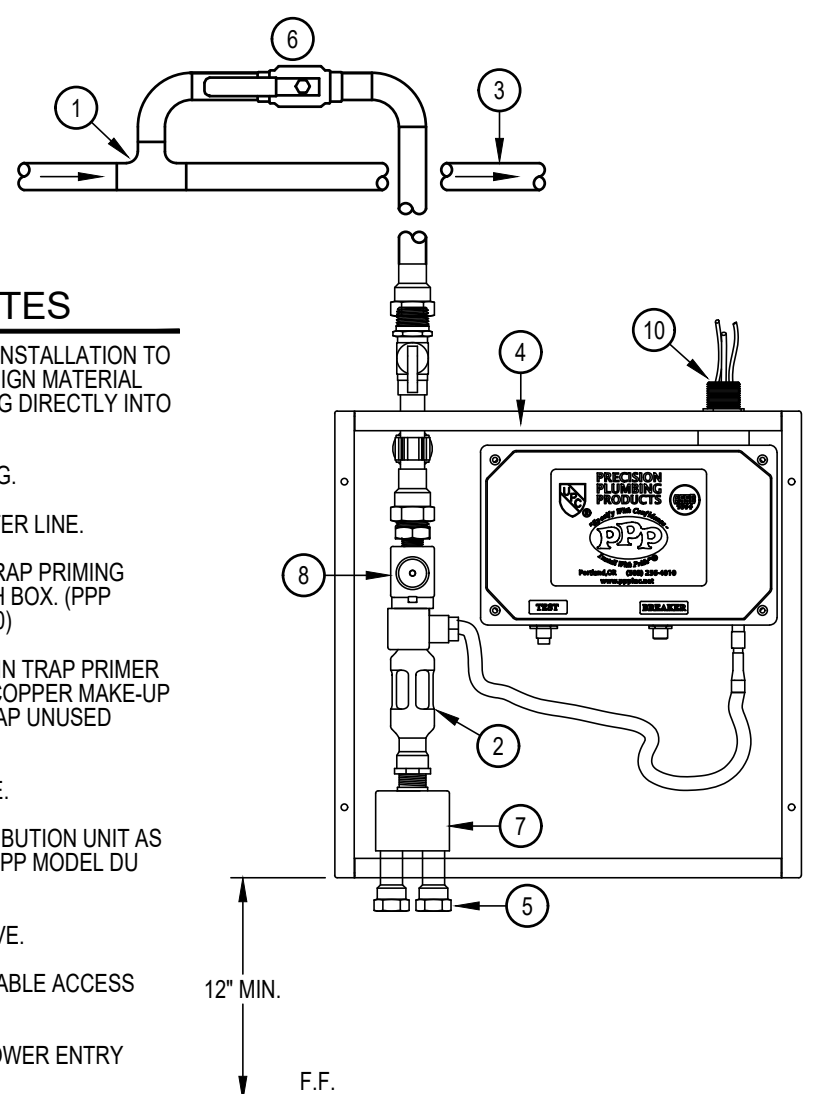
SCALE : NOT TO SCALE

KEYED NOTES

1. GRADE BEAM.
2. GALV. SCH.40 STEEL SLEEVE, SIZE PER SPECS, CENTER PIPE IN SLEEVE.
3. PIPING PASSING HORIZ. THROUGH GRADE BEAM SHALL BE LOCATED NO LESS THAN 6" ABOVE BOTTOM OF BEAM.
4. PIPING PASSING HORIZ. UNDER GRADE BEAM SHALL BE LOCATED A MINIMUM OF 6" BELOW BEAM, PROVIDE A SLEEVE.
5. COORDINATE LOCATIONS OF PIPING IN 3.4.5. ABOVE AS RELIEVING ARCHES OR ADDITIONAL CONCRETE MAY BE REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF BEAM.

06 GRADE BEAM SLEEVE DETAIL

SCALE : NOT TO SCALE



08 TRAP PRIMER CONNECTION DETAIL

SCALE : NOT TO SCALE

PLUMBING FIXTURE SCHEDULE

MARK	MANUFACTURER & MODEL NUMBER	DESCRIPTION	CONNECTIONS				NOTES	REMARKS
			WASTE	VENT	CW	HW		
WC-1	WILLOUGHBY ETF-1490-FM-TS SLOAN ROYAL #111-1.28	15" HIGH, FLOOR MOUNTED, LOW CONSUMPTION FLUSH VALVE, FABRICATED FROM 14 GAGE, TYPE 304 STAINLESS STEEL AND SEAMLESS WELDED CONSTRUCTION, VANDAL RESISTANT, WATER CLOSET WITH ELONGATED TOILET BOWL, INTEGRAL CONTOURED SEAT, CREVICE-FREE SELF-DRAINING FLUSHING RIM WITH FULLY ENCLOSED TRAP, MAINTAIN 2" SEAL AND PASS A 2-1/8" BALL, SIPHON JET ACTION BOWL, 1.28GPF, MANUAL EXPOSED FLUSH VALVE, MOUNTING HARDWARE, FOR ADULT STANDARD MOUNTING	4"	2"	1"	-	1,2,4,5	15" TO TOP OF SEAT
WC-2	WILLOUGHBY ETF-1490-FM-TS-HC SLOAN ROYAL #111-1.28	18" HIGH, FLOOR MOUNTED, LOW CONSUMPTION FLUSH VALVE, FABRICATED FROM 14 GAGE, TYPE 304 STAINLESS STEEL AND SEAMLESS WELDED CONSTRUCTION, VANDAL RESISTANT, WATER CLOSET WITH ELONGATED TOILET BOWL, INTEGRAL CONTOURED SEAT, CREVICE-FREE SELF-DRAINING FLUSHING RIM WITH FULLY ENCLOSED TRAP, MAINTAIN 2" SEAL AND PASS A 2-1/8" BALL, SIPHON JET ACTION BOWL, 1.28GPF, MANUAL EXPOSED FLUSH VALVE, MOUNTING HARDWARE, FOR ADULT ADA MOUNTING	4"	2"	1"	-	1,2,4,5	18" TO TOP OF SEAT
UR-1	WILLOUGHBY UW-1412-BJ-TS-WBS SLOAN ROYAL #186-0.5 ZURN # Z1222 CARRIER	WALL MOUNTED URINAL, FABRICATED FROM 14 GAGE, TYPE 304 STAINLESS STEEL AND SEAMLESS WELDED CONSTRUCTION, LOW CONSUMPTION 0.5 GPF URINAL, 3/4" TOP SPOUT FLUSH VALVE AND CARRIER FOR ADULT ADA MOUNTING.	4"	2"	1"	-		20" TO TOP OF SEAT
L-1	WILLOUGHBY HS-1014-96-HC-DM5-PML1-PPB-PT-LWE-MT-WS	18" X 20" WALL MOUNTED LAVATORY, FABRICATED FROM 14 GAGE, TYPE 304 STAINLESS STEEL AND SEAMLESS WELDED CONSTRUCTION, VANDAL RESISTANT LAVATORY, DECK MOUNTED SPOUT, SINGLE TEMPERATURE PNEUMATIC METERING VALVE, LAV MOUNTED PUSHBUTTON, GRID STRAINER, CHROME PLATED SUPPLY STOPS WITH FLEXIBLE RISER, THRU-WALL EXTENSION WITH CONCEALED P-TRAP, WALL SLEEVE AND MOUNTING HARDWARE, FOR ADULT ADA MOUNTING.	2"	2"	-	-	3	34" FROM FLOOR TO RIM
WH-1	ZURN # Z1350 HYDRANT	ENCASED MODERATE CLIMATE WALL HYDRANT FOR NARROW WALL, CHROME, SCREWDRIVER OPERATED STOP VALVE IN SUPPLY, KEY OPERATED CONTROL VALVE, STAINLESS STEEL BOX WITH HINGED COVER.	-	-	3/4"	-		
FD-1	ZURN # ZN415B-P	BODY ASSEMBLY WITH TYPE B STRAINER, DURA COATED CAST IRON BODY WITH BOTTOM OUTLET INVERTED MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH TRAP PRIMER CONNECTION.	3"	2"	-	-		
EDF-1	ELKAY VRC18SC LKAPREZL APRON ZURN Z1225 CARRIER	BI-LEVEL ELECTRIC DRINKING FOUNTAIN, FRONT AND SIDE TOUCH CONTROLS, 8.0 GPH, FLEXI GUARD SAFETY BUBBLERS, PVC P-TRAP, APRON AND CARRIER, FOR ADULT STANDARD & ADA MOUNTING, OUTDOOR RATED, VANDAL RESISTANT.	2"	2"	3/4"	-		SEE ARCHITECTURAL
SK-1	ADVANCE TABCO # FC-2-1818 FISHER # 29459	FABRICATED NSF 2-COMPARTMENT SINK, BOWL SIZE 18"x18"x14" DEEP, 16 GAUGE 304 STAINLESS STEEL, TILE EDGE SPLASH, ROLLED EDGE, 8" O.C. SPLASH MOUNT FAUCET HOLES, SS GUSSETS, LEGS, ADJUSTABLE FEET, BASKET DRAINS, NSF, FLEXIBLE GOOSENECK SPRAY FAUCET.	2"	2"	3/4"	3/4"		SEE ARCHITECTURAL
MSB-1	FIAT TSB 3000 MOP BASIN #832-AA HOSE & BRACKET #830-AA FAUCET #889-CC MOP BRACKET #MSG 2424 WALL GUARD #1453-BB STRAINER	24X24X12 PRECAST TERRAZO MOP SERVICE BASIN WITH HOSE AND HOSE BRACKET, FAUCET, MOP BRACKET, WALL GUARD AND STRAINER.	3"	2"	3/4"	3/4"		
MX-1	LEONARD 370-LF	THERMOSTATIC MIXING VALVE, PROVIDE WITH MOUNTING BRACKET AND INLET BALL VALVES.			3/4"	3/4"		

NOTES:

1. INSTALL FLUSH VALVE ON THE WIDE SIDE OF STALL.
2. REFER TO PLUMBING PLAN FOR FIXTURES THAT WILL REQUIRE TRAP PRIMER CONNECTIONS. PROVIDE SLOAN VBF-72 OR APPROVED EQUAL.
3. PROVIDE REMOVABLE TRAP ENCLOSURE. COVER SHALL BE SECURED WITH SNAP-SLIP FLUSH REUSABLE FASTENERS. ANGLE STOPS SHALL HAVE LOOK-UP LOCKING ACCESS COVERS.
4. PROVIDE ADA APPROVED LEVERS & FLUSH VALVE HANDLES FOR ALL ADA PLUMBING FIXTURES.
5. MANUFACTURER AND MODEL NUMBER ARE "OR APPROVED EQUAL".

ELECTRIC WATER HEATER SCHEDULE

MARK	LOCATION	GALLON CAPACITY	KW	NUMBER OF ELEMENTS	RECOVERY IN GPH AT 120F RISE	ELECT. V/PH	MANUFACTURER & MODEL	NOTES
EW-H-1	SEE PLAN	10	3	1	10	240/1/60	RHEEM EGSP10	ALL

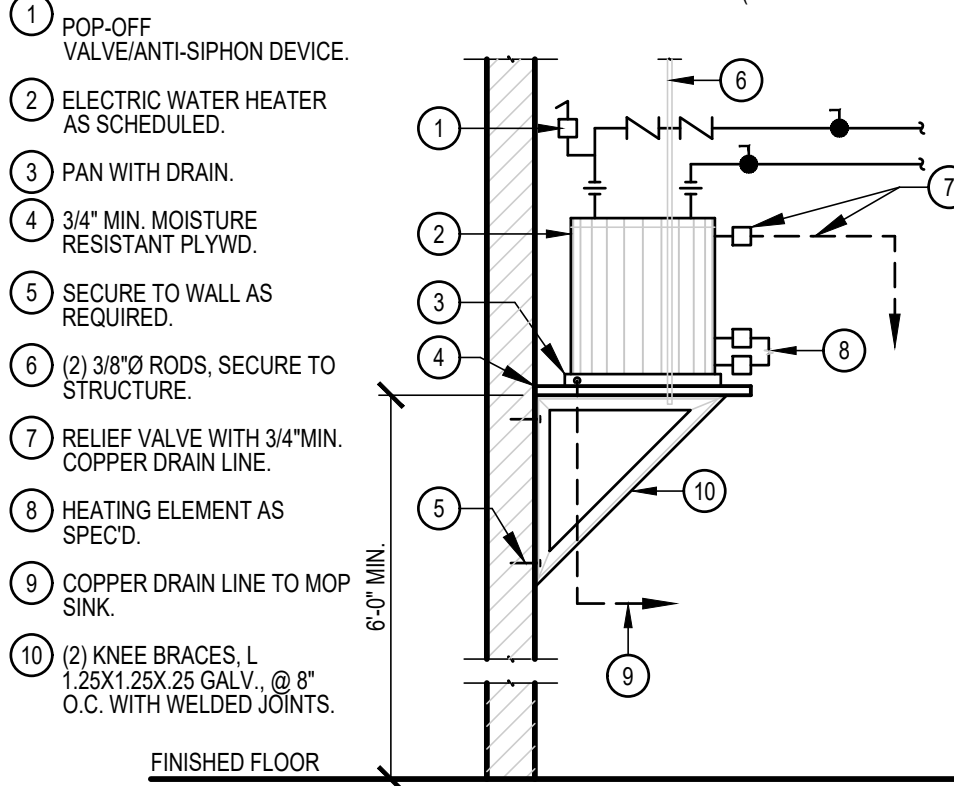
NOTES:

1. MANUFACTURER & MODEL NUMBER ARE "OR APPROVED EQUAL".
2. WATER HEATER TO BE CONTROLLED BY A TIME-CLOCK. COORDINATE WITH ELECTRICAL CONTRACTOR.

KEYED NOTES

1. POP-OFF VALVE/ANTI-SIPHON DEVICE.
2. ELECTRIC WATER HEATER AS SCHEDULED.
3. PAN WITH DRAIN.
4. 3/4" MIN. MOISTURE RESISTANT PLYWD.
5. SECURE TO WALL AS REQUIRED.
6. (2) 3/8" RODS, SECURE TO STRUCTURE.
7. RELIEF VALVE WITH 3/4" MIN. COPPER DRAIN LINE.
8. HEATING ELEMENT AS SPEC'D.
9. COPPER DRAIN LINE TO MOP SINK.
10. (2) KNEE BRACES, L 1.25X1.25X.25 GALV., @ 8" O.C. WITH WELDED JOINTS.

NOTE: PROVIDE HEAT TRAP DEVICE OR AN ARRANGEMENT OF TUBING AS PER IECC. INSULATE THE FIRST 8' OF OUTLET PIPING AND THE INLET PIPING BETWEEN THE STORAGE TANK AND A HEAT TRAP (INCLUDE THE HEAT TRAP).



09 WALL MOUNT ELECTRIC WATER HEATER

SCALE : NOT TO SCALE

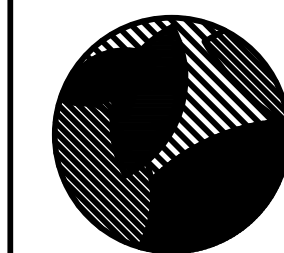
GENERAL NOTES:

1. ALL PLUMBING WORK SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AS ADAPTED AND AMENDED BY THE INSPECTING AUTHORITIES.
2. DRAWING IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.
3. ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID CONFLICT WITH THE WORK OF OTHER TRADES. COORDINATE WITH MECHANICAL, ELECTRICAL AND STRUCTURAL FOR PROPER CLEARANCES.
4. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASING AND SEQUENCE OF CONSTRUCTION WORK.
5. COORDINATE WORK AMONG ALL DISCIPLINES. IT IS NOT THE INTENT OF THESE DOCUMENTS TO DICTATE WHO MUST DO THE WORK. ALL WORK SHOWN IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR.
6. SLEEVE ALL OUTSIDE WALLS, FOUNDATION GRADE BEAMS, INTERIOR WALL PENETRATIONS, AND FIRE SEAL ALL PENETRATION THROUGH FIRE WALLS AND FLOORS WHETHER SHOWN ON PLANS OR NOT.
7. PROVIDE MINIMUM 10' OF SEPARATION BETWEEN HVAC INTAKES AND VENT THRU ROOFS.
8. RECORD INVERT ELEVATIONS OF ALL YARD CLEAN OUT (YCO) ON "AS-BUILT" DRAWINGS.
9. PROVIDE SHUT-OFF VALVES (STOPS) ON ALL ROUGH-INS TO FIXTURES AND EQUIPMENTS.
10. PROVIDE WATER HAMMER ARRESTORS AS INDICATED ON THE DRAWINGS. AIR CHAMBERS NOT AN APPROVED SUBSTITUTE.
11. PROVIDE ANY BACKFLOW PREVENTION DEVICE REQUIRED BY CODE OR LOCAL AUTHORITIES. CONTRACTOR SHALL VERIFY THIS WITH CITY AND LOCAL AGENCIES AND INCLUDE COST IN BID. CONTRACTOR TO HAVE BACK FLOWS CERTIFIED.
12. REFER TO PLUMBING FIXTURE ROUGH-IN SCHEDULE FOR INDIVIDUAL PIPE CONNECTIONS TO FIXTURES.
13. PRIOR TO POURING FOUNDATION AND ERECTING CMU WALLS, COORDINATE INSTALLATION OF PLUMBING FIXTURE CARRIERS WITH GENERAL CONTRACTOR.
14. METAL STUDS AT DRY WALLS SHALL NOT BE CUT THRU HORIZONTAL DIRECTION. COORDINATE WITH DRY WALL CONTRACTOR.
15. PAINT ALL PLUMBING PIPING EXPOSED TO VIEW AS PER SPECIFICATIONS. COORDINATE COLOR WITH ARCHITECT.

PLUMBING SYMBOLS LEGEND

COLD WATER SUPPLY	WCO	WALL CLEANOUT
HOT WATER SUPPLY		*GATE VALVE (GV)
GAS LINE		*BALL VALVE
SOIL & WASTE LINE - ENLARGED PLANS		VALVE IN RISER TYPE AS NOTED
VENT LINE - ENLARGED PLANS	WC	WATER CLOSET
ACID WASTE LINE - ENLARGED PLANS	UR	URINAL
GREASE WASTE LINE - ENLARGED PLANS	L	LAVATORY
FIRE SPRINKLER LINE	SK	SINK
FLOOR CLEANOUT	EDF	ELECTRIC DRINKING FOUNTAIN
FLOOR CLEANOUT - 2 WAY	MSB	MOP SERVICE BASIN
FLOOR DRAIN (FD) WITH DEEP SEAL TRAP	EESHR	EMERGENCY EYE/SHOWER
HUB DRAIN WITH DEEP SEAL TRAP	TP	TRAP PRIMER
FLOOR SINK	EW	ELECTRIC WATER HEATER
YARD CLEANOUT	VTR	VENT THRU ROOF
YARD CLEANOUT - 2 WAY	CO	CLEANOUT
WALL HYDRANT	A.F.F.	ABOVE FINISH FLOOR
TRAP PRIMER	ADT	ACID DILUTION TANK
*WATER HAMMER	GT	GREASE TRAP

* PROVIDE 12"x12" ACCESS PANEL WHERE INSTALLED IN AN INACCESSIBLE AREA.



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McALLEN, TX. 78504
(956) 540-7850

SOUTH SIDE PARK - B
SAN BENITO, TX

PROJECT:

DESCRIPTION

ISSUED FOR CONSTRUCTION

DATE

10-04-2018

DATE

10-04-2018

DATE

10-04-2018

DATE

10-04-2018

DATE

10-04-2018

DATE

10-04-2018

DATE

10-04-2018

DATE

10-04-2018

DATE

10-04-2018

DATE

10-04-2018

DATE

10-04-2018

PLUMBING
SCHEDULES
AND DETAILS

SHEET TITLE:

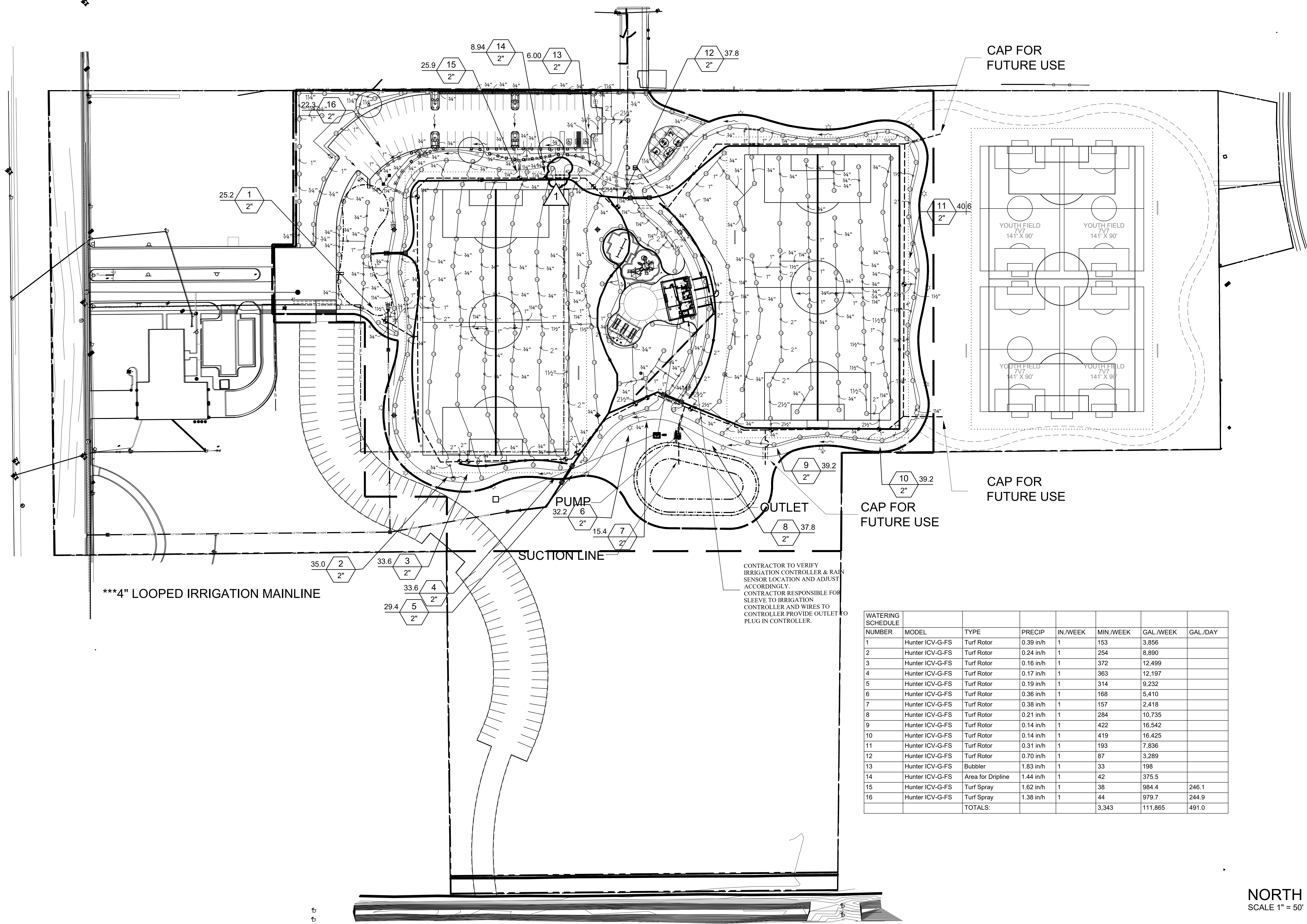
PROJECT NUMBER:

A17-02

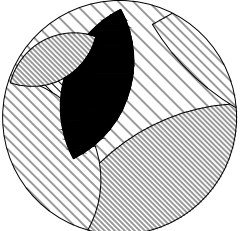
SHEET NUMBER:

P3.01

ethos
engineering
119 W. VAN BUREN AVE. STE. 101
PHOENIX, AZ 85003-3405
TEXAS REGISTERED
ENGINEERING FIRM
F-15998



WATERING SCHEDULE							
NUMBER	MODEL	TYPE	PRECIP	IN./WEEK	MIN./WEEK	GAL./WEEK	GAL./DAY
1	Hunter ICV-G-FS	Turf Rotor	0.39 in/h	1	153	3,856	
2	Hunter ICV-G-FS	Turf Rotor	0.24 in/h	1	254	8,890	
3	Hunter ICV-G-FS	Turf Rotor	0.16 in/h	1	372	12,499	
4	Hunter ICV-G-FS	Turf Rotor	0.17 in/h	1	363	12,197	
5	Hunter ICV-G-FS	Turf Rotor	0.19 in/h	1	314	9,232	
6	Hunter ICV-G-FS	Turf Rotor	0.36 in/h	1	168	5,410	
7	Hunter ICV-G-FS	Turf Rotor	0.38 in/h	1	157	2,418	
8	Hunter ICV-G-FS	Turf Rotor	0.21 in/h	1	284	10,735	
9	Hunter ICV-G-FS	Turf Rotor	0.14 in/h	1	422	16,542	
10	Hunter ICV-G-FS	Turf Rotor	0.14 in/h	1	419	16,425	
11	Hunter ICV-G-FS	Turf Rotor	0.31 in/h	1	193	7,836	
12	Hunter ICV-G-FS	Turf Rotor	0.70 in/h	1	87	3,289	
13	Hunter ICV-G-FS	Bubbler	1.83 in/h	1	33	198	
14	Hunter ICV-G-FS	Area for Dripline	1.44 in/h	1	42	375.5	
15	Hunter ICV-G-FS	Turf Spray	1.62 in/h	1	38	984.4	246.1
16	Hunter ICV-G-FS	Turf Spray	1.38 in/h	1	44	979.7	244.9
TOTALS:					3,343	111,865	491.0



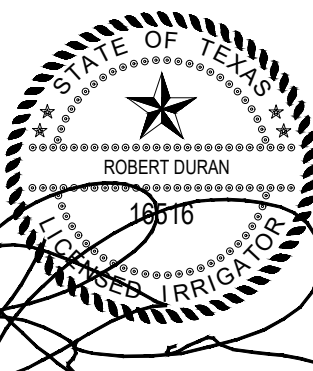
HEFFNER DESIGN TEAM, PLLC
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PROJECT:
SOUTH SIDE PARK - B
SAN BENITO, TX

DESCRIPTION
ISSUED FOR CONSTRUCTION

DATE
10-04-2018

REVISION #1
10-31-2018



DATE: 10-31-18

SHEET TITLE:
IRRIGATION PLAN

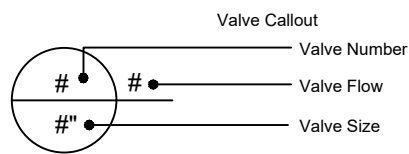
PROJECT NUMBER:
A17-02

SHEET NUMBER:
IR1

These Drawings and Specifications are to be an instrument of service and shall remain the property of the Landscape Architect. They are not to be used on other projects or extensions to this project except by agreement in writing with the Landscape Architect. The Landscape Architect is not responsible for construction means, methods, sequences or procedures or for safety precautions and programs in connection with the project.

NORTH
SCALE 1" = 50'

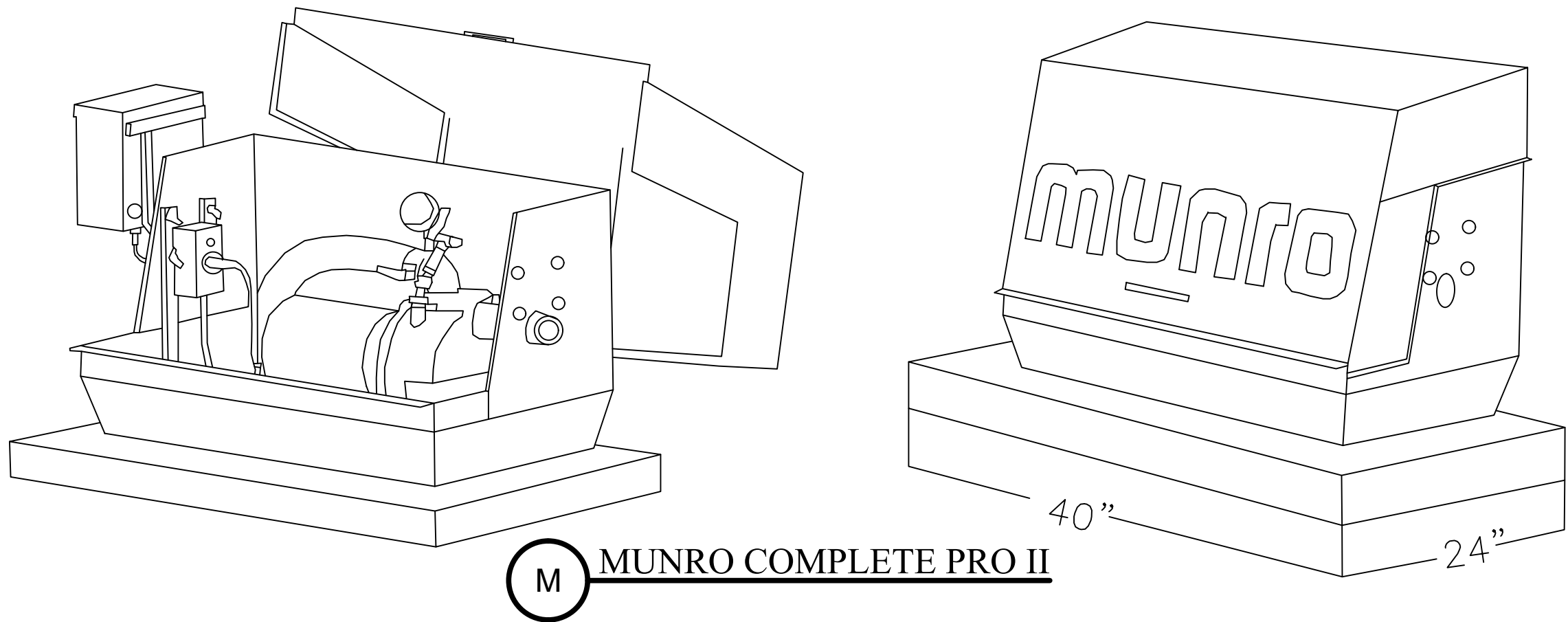
IRRIGATION SCHEDULE							
SYMBOL	MANUFACTURER/MODEL	QTY	ARC	PSI	GPM	RADIUS	
	Hunter PROS-04-CV 12' radius	2	360	30	2.70	12'	
	Hunter PROS-04-CV adjustable arc	29	Adj	30		8'	
	Hunter PROS-04-CV adjustable arc	27	Adj	30		10'	
	Hunter PROS-04-CV adjustable arc	7	Adj	30		15'	
	Hunter AFB	12	360	30	0.50	3'	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY		PSI	GPM	RADIUS	DETAIL
	Hunter I-20-04 Turf Rotor, 4.0" Pop-Up, Adjustable and Full Circle. Plastic Riser. Drain Check Valve. Standard Nozzle.	286		35	1.40	31'	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY					DETAIL
	Area to Receive Dripline Rain Bird XFS-09-12 XFS Sub-Surface Pressure Compensating Dripline w/Copper Shield Technology, 0.9 GPH emitters at 12" O.C. Laterals spaced at 12" apart, with emitters offset for triangular pattern. UV Resistant. Specify XF insert fittings.	596.1 I.f.					
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY					DETAIL
	Hunter ICV-G-FS 2" 1", 1-1/2", 2", and 3" Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use. With Filter Sentry.	16					
	Hunter ACC-99D 2-Wire Decoder Controller with 99 station capacity, metal cabinet.	1					
	Hunter Solar-Sync Solar, rain freeze sensor with outdoor interface, connects to Hunter PCC, Pro-C, and I-Core Controllers, install as noted. Includes 10 year lithium battery and rubber module cover, and gutter mount bracket. Wired.	1					
	Irrigation Lateral Line: PVC Class 200 SDR 21-NP 3/4"	91.7 I.f.					
	Irrigation Lateral Line: PVC Class 200 SDR 21-NP 3/4"	6,331 I.f.					
	Irrigation Lateral Line: PVC Class 200 SDR 21-NP 1"	1,112 I.f.					
	Irrigation Lateral Line: PVC Class 200 SDR 21-NP 1 1/4"	1,178 I.f.					
	Irrigation Lateral Line: PVC Class 200 SDR 21-NP 1 1/2"	395.3 I.f.					
	Irrigation Lateral Line: PVC Class 200 SDR 21-NP 2"	1,481 I.f.					
	Irrigation Lateral Line: PVC Class 200 SDR 21-NP 2 1/2"	346.1 I.f.					
	Irrigation Mainline: PVC Schedule 40-NP	1,969 I.f.					
	Pipe Sleeve: PVC Schedule 40	239.4 I.f.					



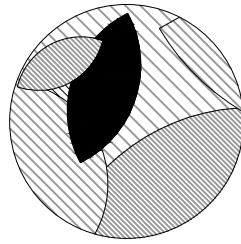
VALVE SCHEDULE					
NUMBER	MODEL	SIZE	TYPE	GPM	PRECIP
1	Hunter ICV-G-FS	2"	Turf Rotor	25.20	0.39 in/h
2	Hunter ICV-G-FS	2"	Turf Rotor	35.00	0.24 in/h
3	Hunter ICV-G-FS	2"	Turf Rotor	33.60	0.16 in/h
4	Hunter ICV-G-FS	2"	Turf Rotor	33.60	0.17 in/h
5	Hunter ICV-G-FS	2"	Turf Rotor	29.40	0.19 in/h
6	Hunter ICV-G-FS	2"	Turf Rotor	32.20	0.36 in/h
7	Hunter ICV-G-FS	2"	Turf Rotor	15.40	0.38 in/h
8	Hunter ICV-G-FS	2"	Turf Rotor	37.80	0.21 in/h
9	Hunter ICV-G-FS	2"	Turf Rotor	39.20	0.14 in/h
10	Hunter ICV-G-FS	2"	Turf Rotor	39.20	0.14 in/h
11	Hunter ICV-G-FS	2"	Turf Rotor	40.60	0.31 in/h
12	Hunter ICV-G-FS	2"	Turf Rotor	37.80	0.70 in/h
13	Hunter ICV-G-FS	2"	Bubbler	6.00	1.83 in/h
14	Hunter ICV-G-FS	2"	Area for Dripline	8.94	1.44 in/h
15	Hunter ICV-G-FS	2"	Turf Spray	25.90	1.62 in/h
16	Hunter ICV-G-FS	2"	Turf Spray	22.27	1.38 in/h

NOTES

- 1.- ALL IRRIGATION WORK TO BE PERFORMED BY A TEXAS LICENSED IRRIGATOR.
- 2.- INSTALL ALL VALVES IN AN ARMOR VALVE BOX WITH COVER OR EQUAL. VALVE SHOULD BE CENTERED IN BOX TO FACILITATE ACCESS TO SOLENOID ASSEMBLY AND MANUAL OPERATORS.
- 3.- PIPE AS SHOWN IS DIAGRAMMATIC BUT SHOULD BE REASONABLY FOLLOWED. LOCATION OF SPRINKLER HEADS SHALL BE ESTABLISHED BY THE CONTRACTOR BUT DESIGN SPACING MAY NOT BE EXCEEDED WITHOUT AUTHORIZATION FROM THE OWNER.
- 4.- ALLOW A MINIMUM OF 6" CLEARANCE FROM ANY STRUCTURE, INCLUDING SIDEWALKS, CURBS, BUILDINGS, ETC. WHEN INSTALLING SPRINKLER HEADS
- 5.- ALL SLEEVES SHALL BE SCH. 40 PVC, SHALL EXTEND 12" BEYOND EDGE OF PAVEMENT OR STRUCTURE, SHALL BE PLACED 24" BELOW TOP OF PAVEMENT AND SHALL BE CAPPED WITH PVC CAPS. DO NOT PENETRATE STRUCTURES WITHOUT PRIOR APPROVAL.
- 6.- LOCATION OF SLEEVES TO BE MARKED IN PAVEMENT WITH AN "S" CONCRETE STAMP. AFTER INSTALLATION, SYSTEM MUST BE BALANCED BY ADJUSTING PRESSURE
- 7.- REGULATOR CONTROLS ON VALVES.
- 7.- SYSTEM SHALL REQUIRE A MINIMUM OF 50 LBS. STATIC PRESSURE FOR SYSTEM TO OPERATE PROPERLY. IRRIGATION CONTRACTOR SHALL NOTIFY THE OWNER OF PRESSURE DEFICIENCIES OR IF THE PRIMARY WATER SUPPLY LINES ARE SMALLER THAN 4" AND/OR LONGER THAN 120' FROM THE SOURCE. NOTIFY THE OWNER OF ANY OTHER SITE PROBLEMS THAT MAY ALTER THE EFFECTIVENESS OF THE SYSTEM.
- 8.- THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SPECIFICATIONS FOR THE LANDSCAPE IRRIGATION SYSTEM.
- 9.- THE CONTRACTOR SHALL PREPARE "AS-BUILT" DRAWINGS IN AN AUTOCAD FORMAT WHICH SHALL SHOW LOCATIONS OF MAIN LINES, VALVES, CONTROLLERS AND SLEEVES. THE AUTOCAD DRAWINGS SHALL BE DELIVERED ON DISC TO THE OWNERS REPRESENTATIVE FOR REVIEW AND APPROVAL.
- 10.- ALL SPLICES ARE TO BE CAPPED WITH TAN KING LOW VOLTAGE CONNECTORS. NO FIELD SPLICES WILL BE PERMITTED. WHERE SPLICES ARE NECESSARY ALL MUST BE IN VALVE BOXES.
- 11.- NO PIPE CROSSES ARE PERMITTED
- 12.- HAND DIG TRENCHES WITHIN THE DRIP LINE OF EXISTING TREES.
- 13.- ALL MAIN & LATERAL LINES SHALL BE SET AT A MINIMUM DEPTH OF 18" TO THE TOP OF THE PIPE. ALL LATERAL LINES SHALL BE SET AT A MINIMUM DEPTH OF 18" TO THE TOP OF THE PIPE. ALL ELECTRIC VALVES SHALL BE SET TO A DEPTH OF 18" TO THE TOP OF ADJACENT PIPE.
- 14.- ALL PIPING TO BE LAID WITH LETTERING UP.
- 15.- ALL 3/4" - 2" LATERAL PIPING SHALL BE CLASS 200 SOLVENT WELD PVC.
- 16.- PROVIDE THRUST BLOCKS AS PER DETAILS . ALL THRUST BLOCKING SHALL BE INSPECTED AND APPROVED BY THE OWNER PRIOR TO BACKFILL.
- 17.- ALL VALVE WIRING SHALL BE #14 UF.
- 18.- PROVIDE PRESSURE GAUGE ON INLET AND OUTLET.
- 19.- PROVIDE QUICK COUPLERS AS INDICATED.
- 20.- DO NOT LOCATE VALVE BOXES IN MULTI-USE ATHLETIC FIELD AREAS. ALL PIPES GOING TO AND FROM RP AND PUMP SHALL BE SCH. 80 PVC PIPE. WRAP PIPE WITH 1/8"x2" INSULATION TAPE #4217-W3 BY NU-CALGON WHOLESALE INC. ST. LOUIS, MO. 63146.
- 21.- ALL SPRINKLER HEADS SHALL BE SET LEVEL TO FINISH GRADES, PLACED VERTICAL IN THE GROUND, ADJUSTED TO COVER HEAD TO HEAD WITH MINIMAL SPRAY IN AREAS NOT IRRIGATED.
- 22.- TEN (10) DAYS PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL VERIFY THE WATER STATIC PRESSURE. CONFIRM WITH OWNER THE WATER STATIC PRESSURE BEFORE COMMENCING WORK.
- 23.- THE CONTRACTOR SHALL PROVIDE TWO QUICK COUPLER KEYS TO MATCH QUICK COUPLER SPECIFIED.
- 24.- THE CONTRACTOR SHALL OBTAIN THE PROPER PERMIT FOR IRRIGATION WORK FROM THE CITY OF SAN BENITO PRIOR TO COMMENCING WORK.
- 25.- ALL MATERIAL SHOULD BE CONSIDERED OR APPROVED EQUAL.



NOTE:
CONTRACTOR TO VERIFY DIMENSION FOR PAD.



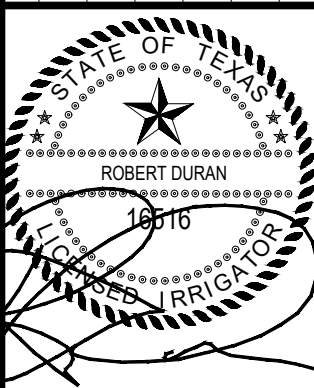
HEFFNER DESIGN TEAM, PLLC
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4814 N. 11TH ST. SUITE E
McALLEN, TX. 78504
(956) 540-7850

SOUTH SIDE PARK - B
SAN BENITO, TX

PROJECT:

DESCRIPTION

DATE



DATE: 10-31-18

SHEET TITLE:

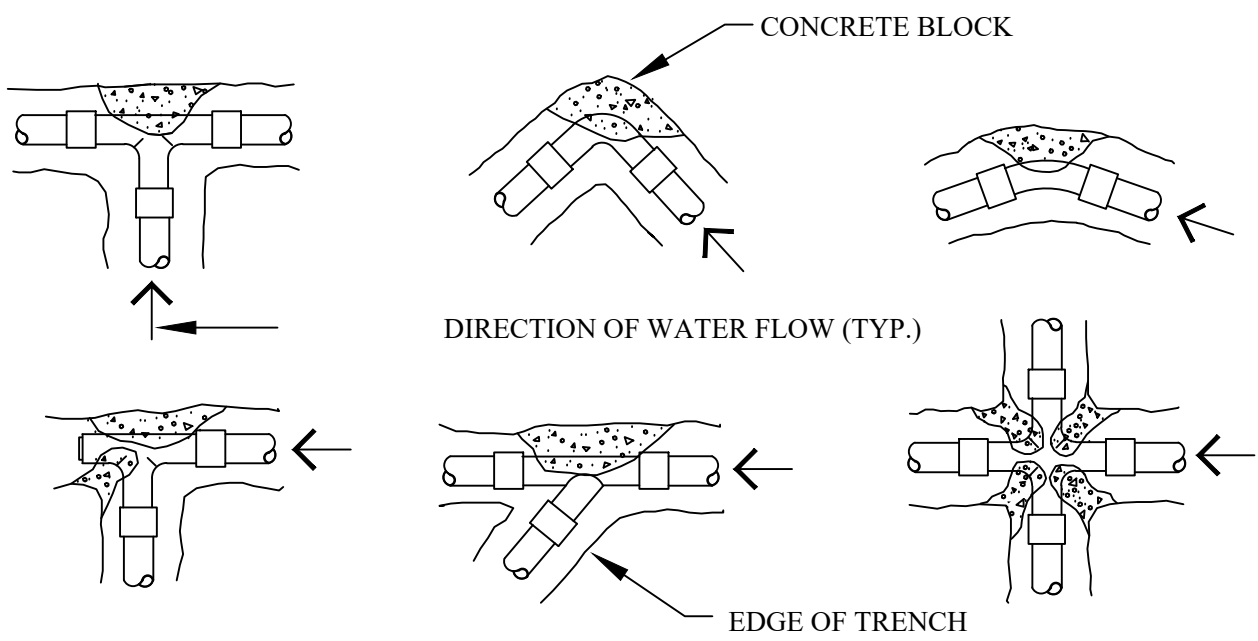
IRRIGATION
SCHEDULE & NOTES

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PROJECT NUMBER:
A17-02

SHEET NUMBER:

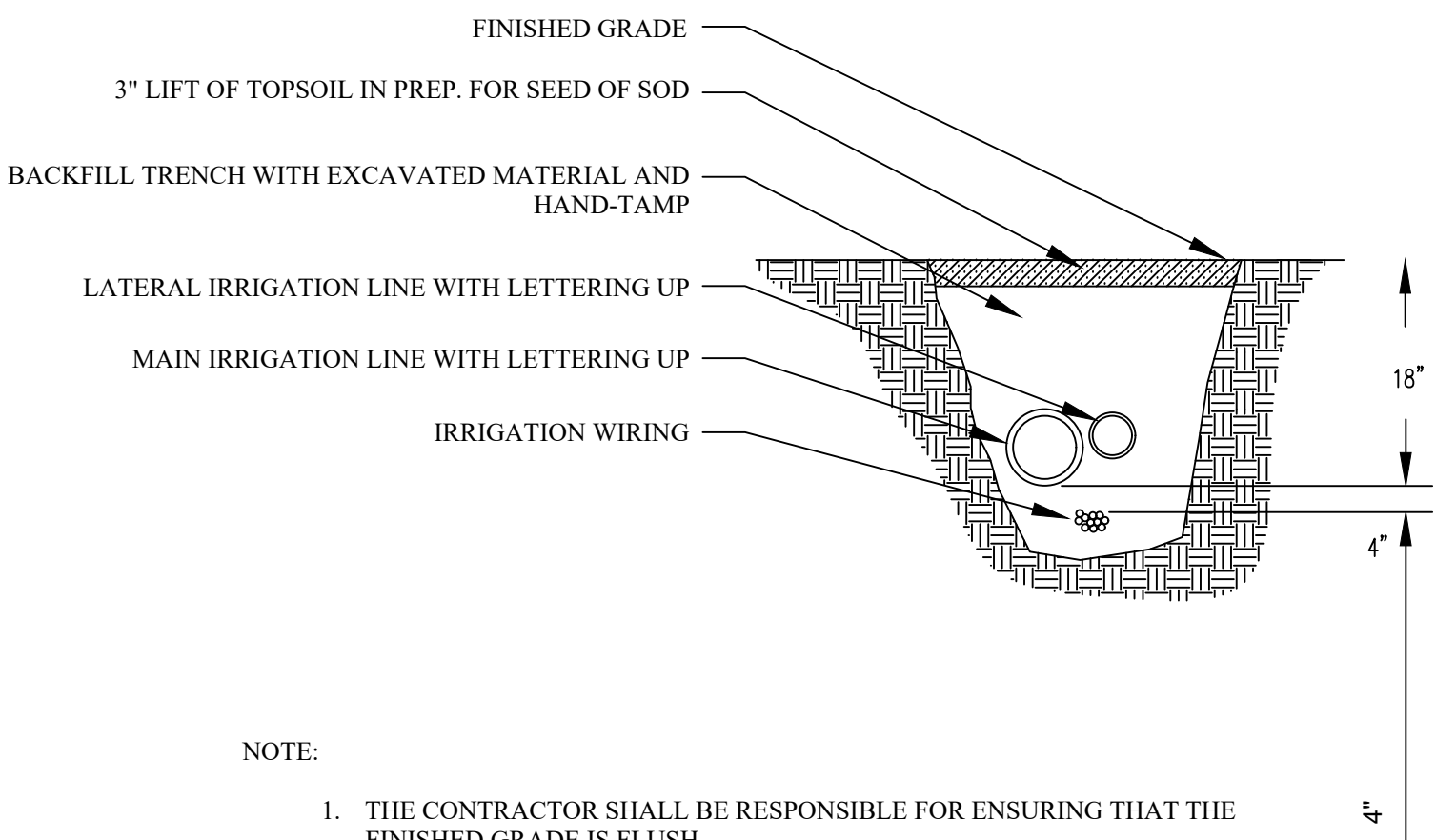
IR2



THRUST BLOCK REQUIREMENTS VS. FITTING TYPE					
	1 1/4" - 2 1/2"	3"	4"	6"	
TEES/ELLS	1.00	1.00	1.40	3.2	
90° BEND	1.00	1.25	2.00	4.5	
45° BEND	1.00	1.00	1.00	2.4	

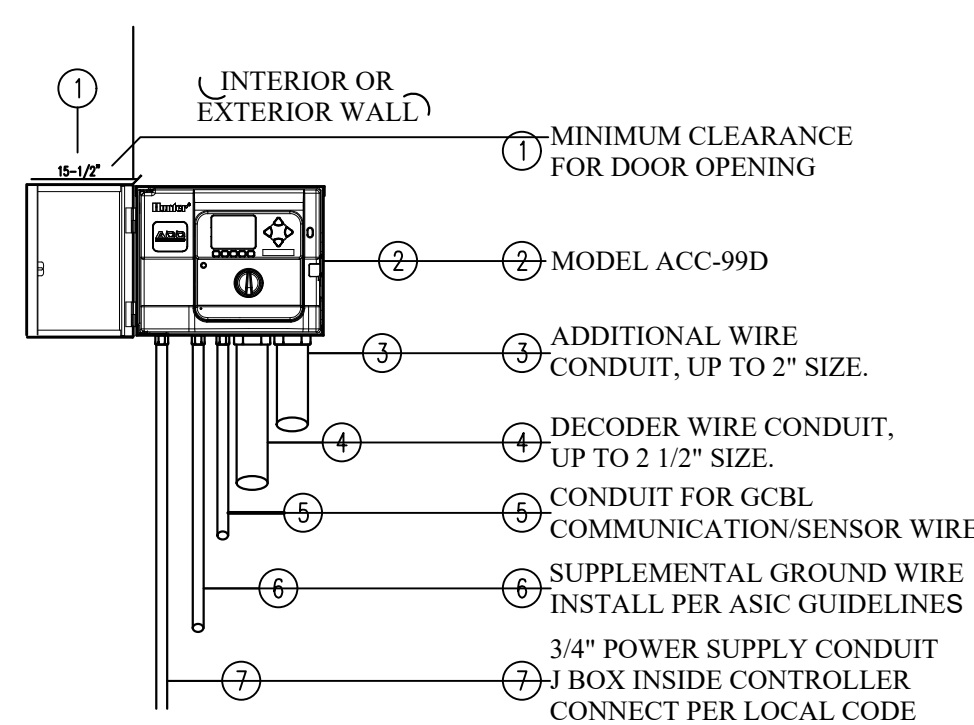
- NOTES:
- THRUST BLOCKING TO BE PLACED AT ALL DEAD ENDS, TEES, BENDS, WYES AND REDUCERS AND ANY OTHER AREA AS DETERMINED BY THE ENGINEER/ARCHITECT.
 - MINIMUM AREAS SHOWN ARE IN SQUARE FEET.
 - BEARING MUST BE ON UNDISTURBED EARTH.
 - THRUST BLOCK SHALL BEAR ON FULL 180° OF PIPE CIRCUMFERENCE.
 - USE A MINIMUM OF ONE (1) CU. FT OF 3000 PSI CONCRETE.

A THRUST BLOCKS



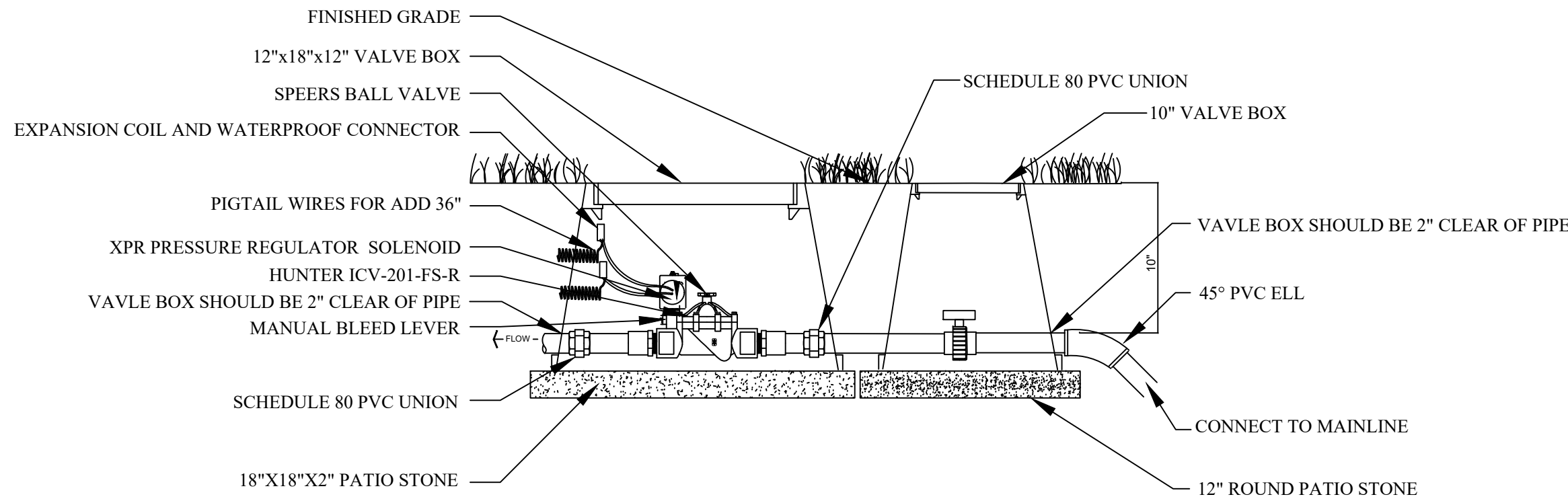
- NOTE:
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE FINISHED GRADE IS FLUSH.
 - CONTRACTOR IS TO ENSURE ALL PIPING IS TO BE LAID WITH LETTERING UP.

E IRRIGATION MAINLINE, LATERAL LINE, AND WIRES



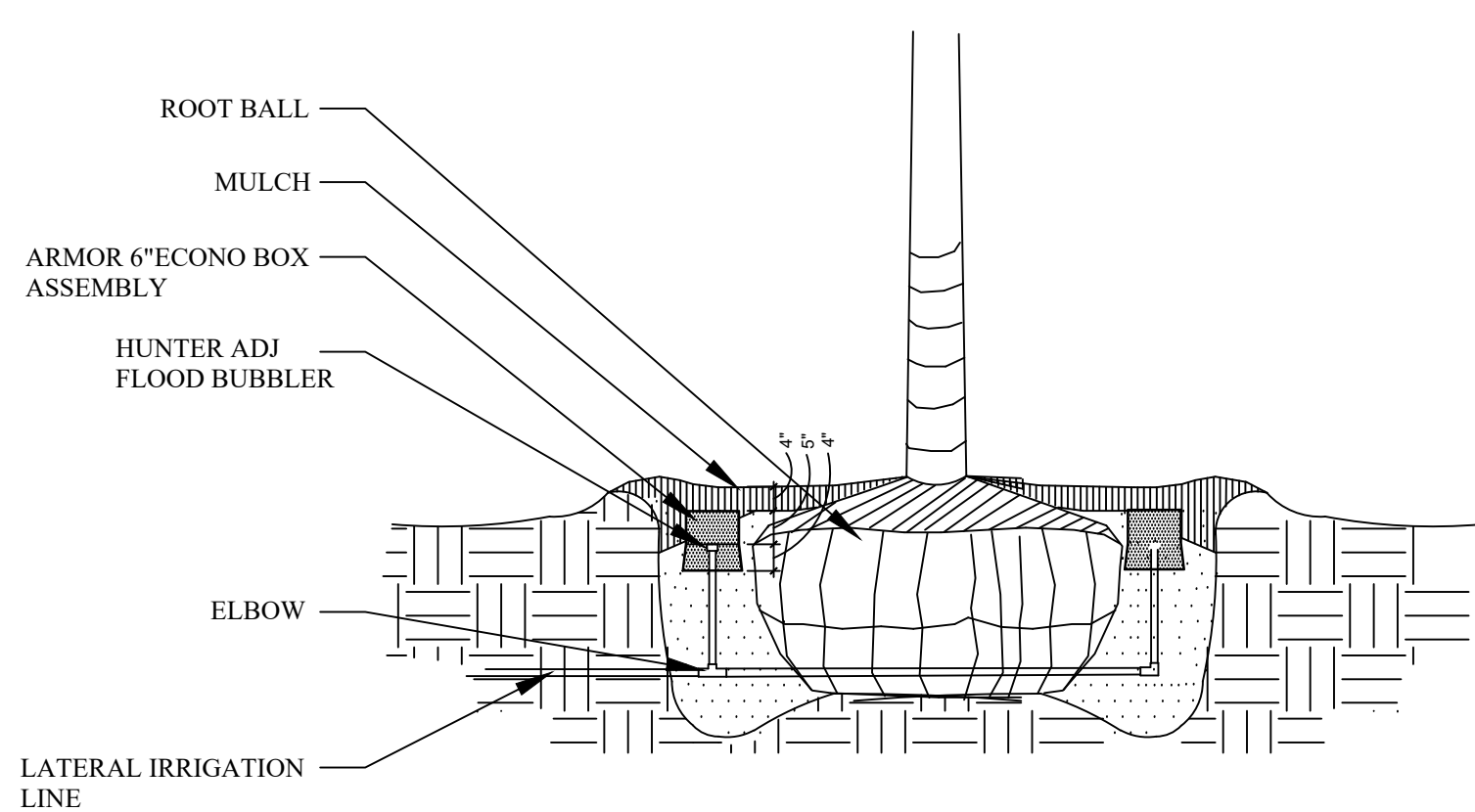
ACC-99C-IMMS CONTROLLER WALL MOUNT

I ACC-99D CONTROLLER

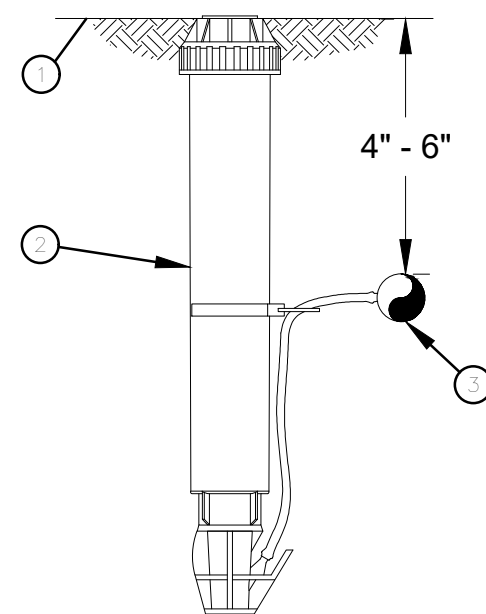


- NOTES:
- MAINTAIN A 2"-3" GAP BETWEEN THE BOTTOM OF THE VALVE AND THE TOP OF THE PATIO STONE.
 - PROVIDE 36" OF SLACK FOR CONTROL WIRES AND NEATLY COIL.
 - PROVIDE ONE EXTRA 14 GA. RED WIRE AT EACH VALVE FOR FUTURE USE.

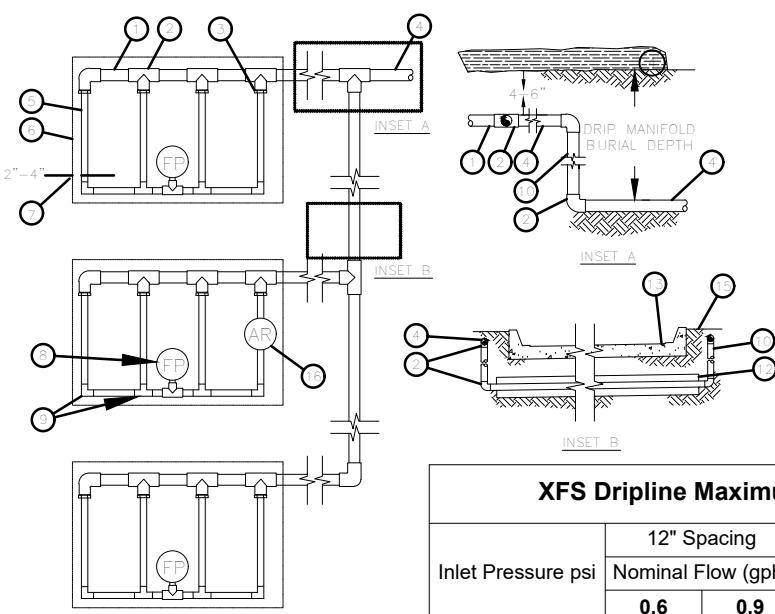
B HUNTER ICV-201-FS-R



F HUNTER ADJ FLOOD BUBBLER



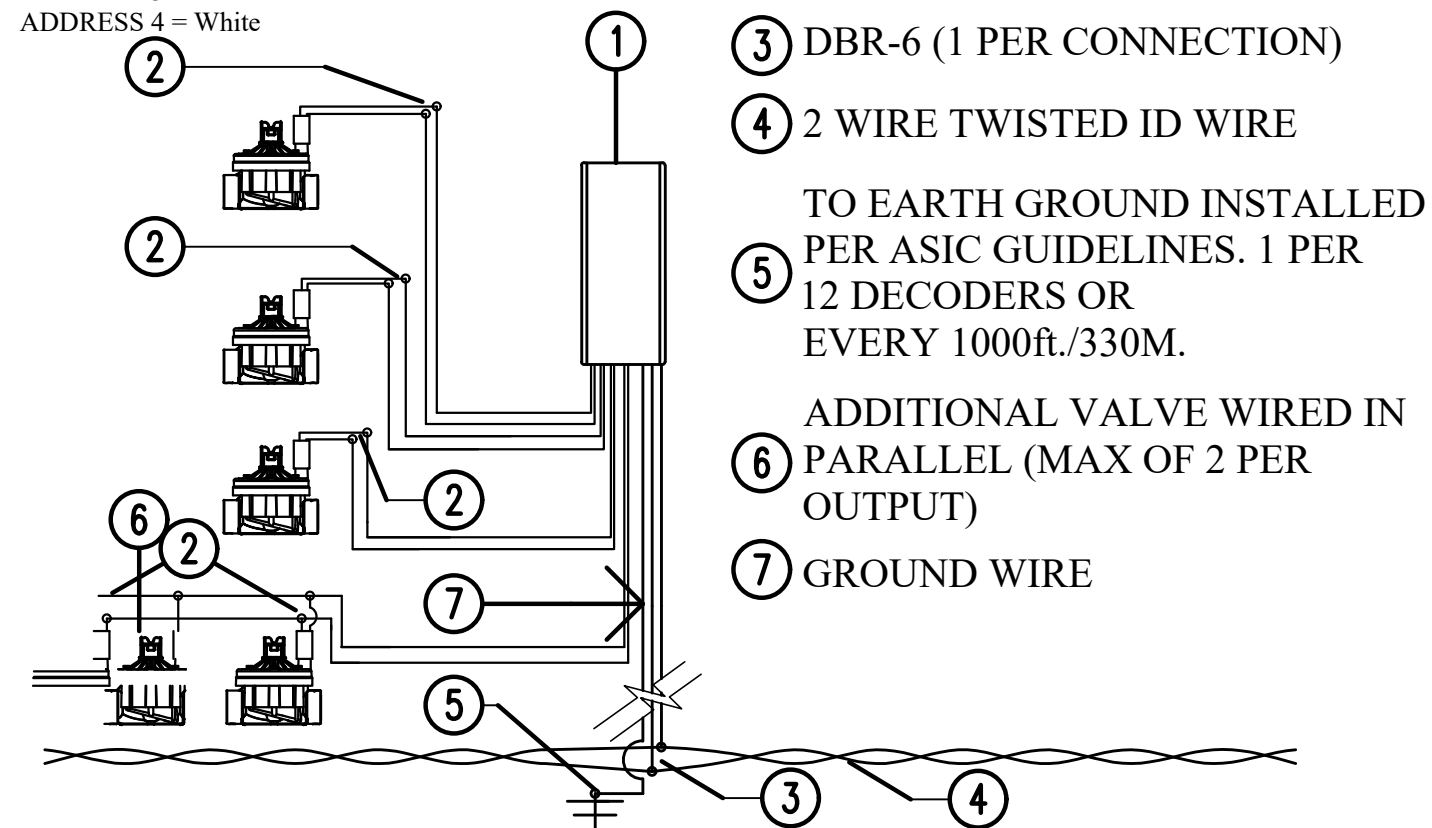
J XFS SUB-SURFACE DRIPLINE OPERATION INDICATOR



- NOTES:
- DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS ON RAIN BIRD WEB SITE (WWW.RAINBIRD.COM) FOR SUGGESTED SPACING.
 - LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING SHOWN IN THE ACCOMPANYING TABLE.
 - INSTALL AIR RELIEF VALVE AT HIGH POINTS IN DRIP LATERAL.
 - WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.
 - DRIP SHALL BE PLACED UNDER LANDSCAPE FABRIC IN LANDSCAPE BEDS WITH DECOMPOSED GRANITE.

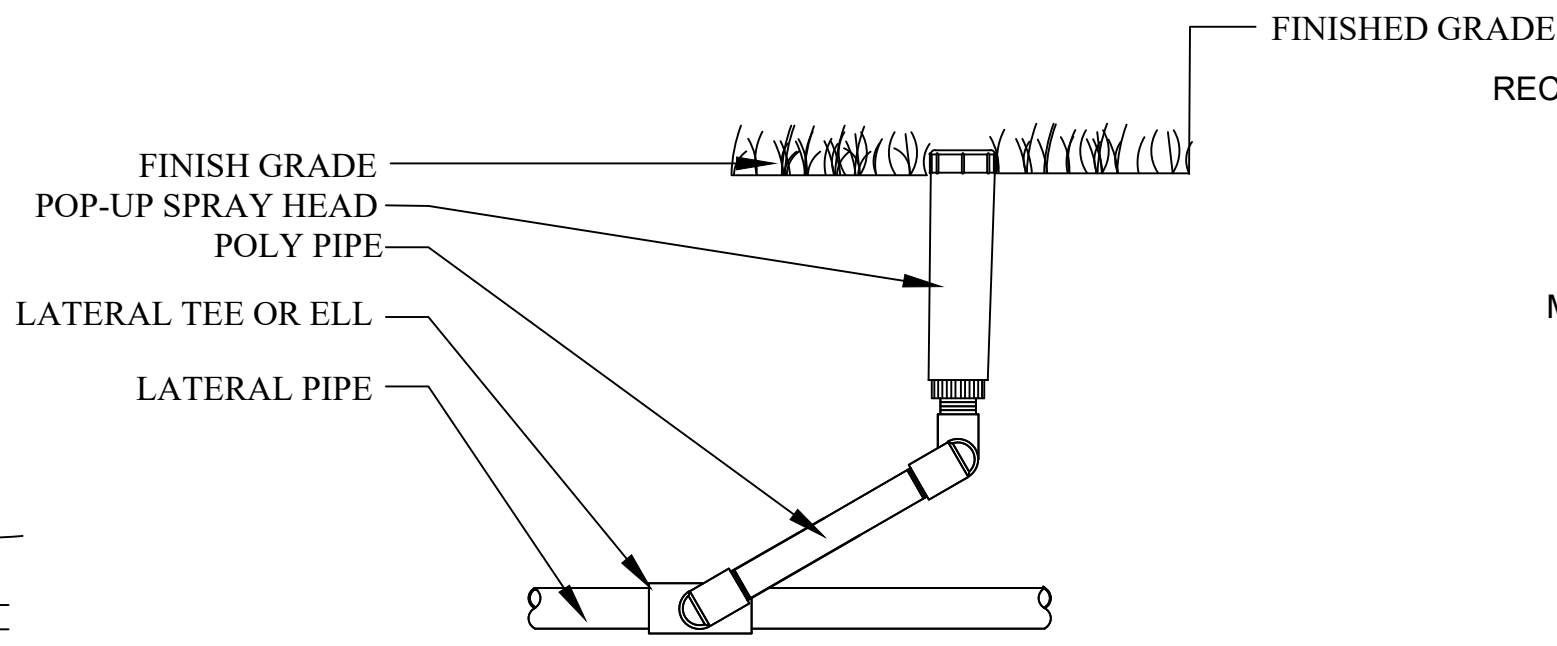
K XFS SUB-SURFACE DRIPLINE

NOTE: All ICD 400 DECODERS SHALL HAVE THE FOLLOWING ADDRESS AND CORRESPONDING COLOR
ADDRESS 1 = Black
ADDRESS 2 = Yellow
ADDRESS 3 = Green
ADDRESS 4 = White



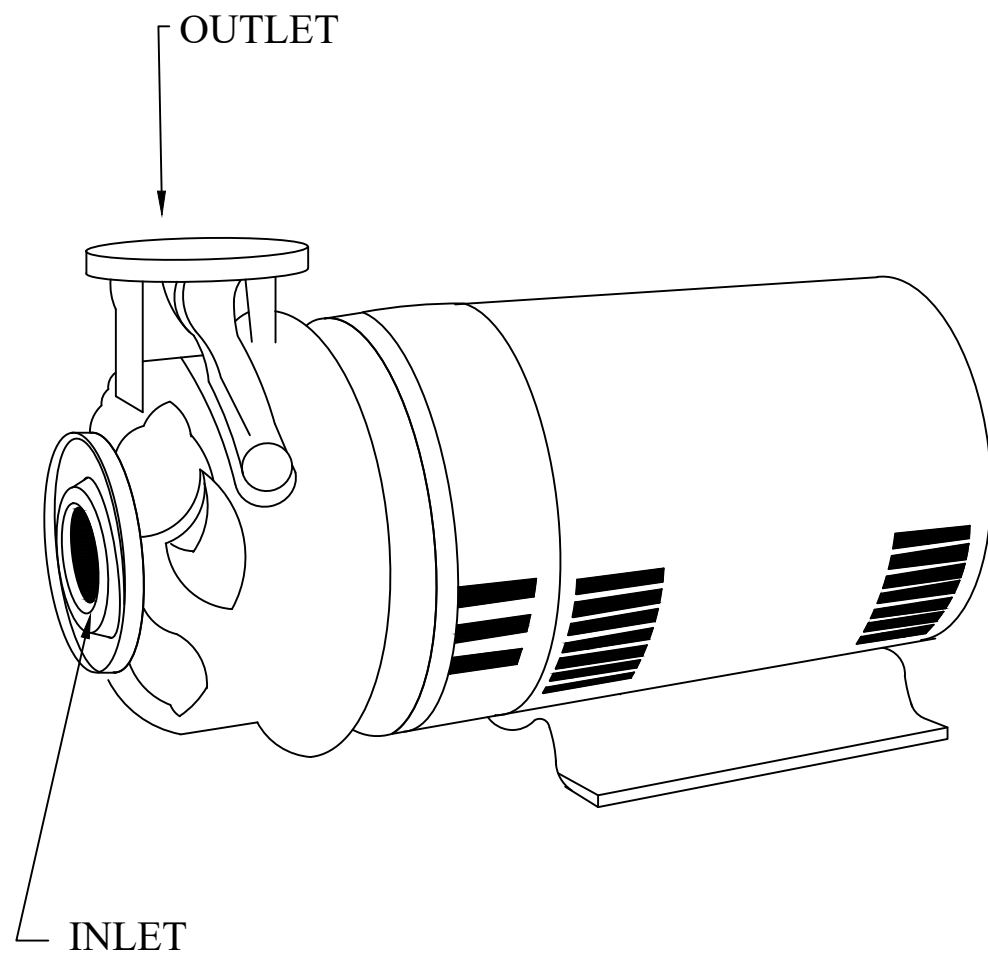
ACC-99D-IMMS CONTROLLER WALL MOUNT

C HUNTER ACC-99D-IMMS

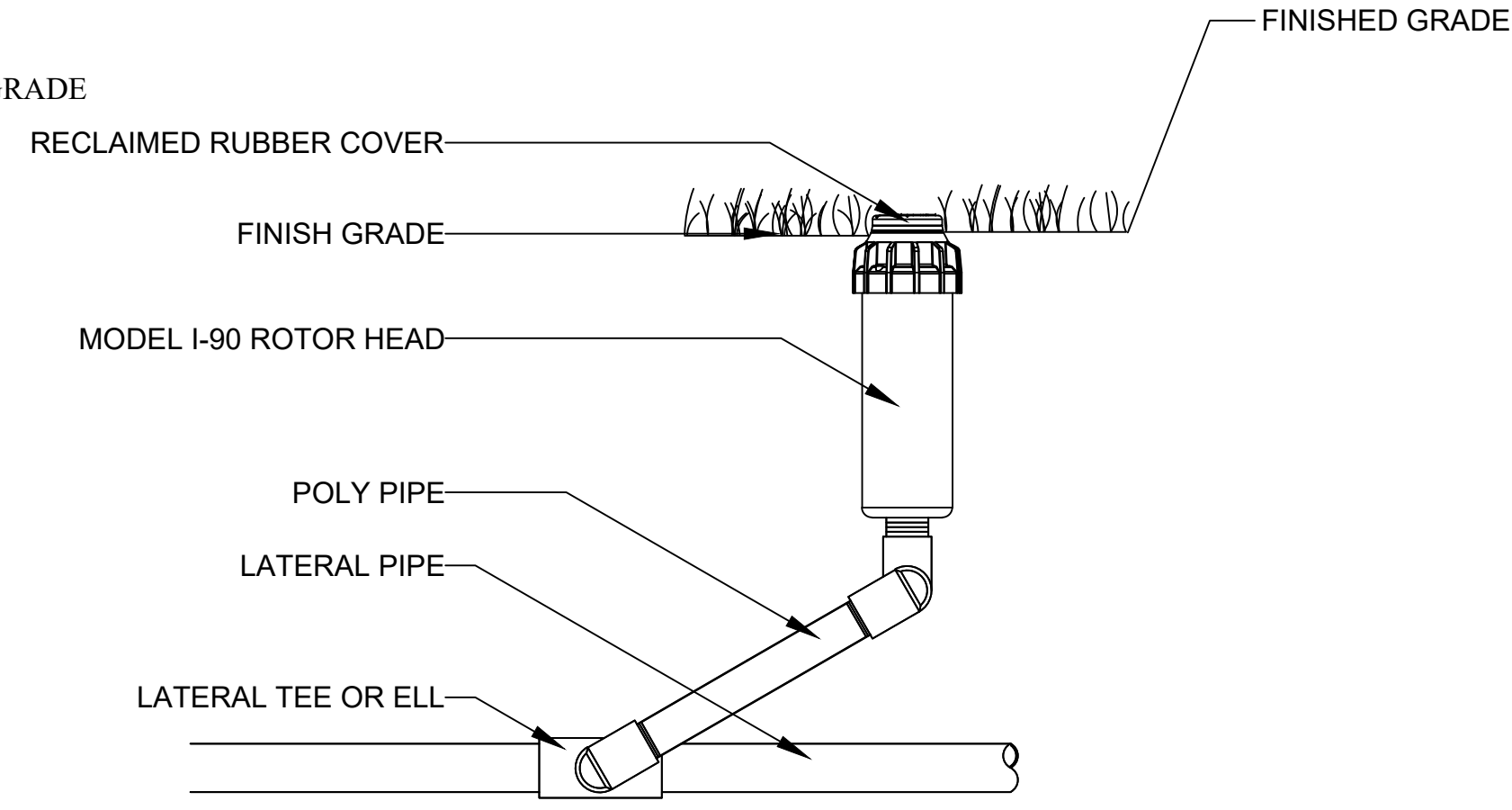


G HUNTER TURF SPRAYS

- PVC SUPPLY HEADER
- PVC SCH 40 TEE OR EL (TYPICAL)
- BARB X MALE FITTING: RAIN BIRD XFF-MA FITTING (TYPICAL)
- PVC DRIP MANIFOLD FROM RAIN BIRD CONTROL ZONE VALVE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
- SUB-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE (TYPICAL)
POTABLE: XFS DRIPLINE
NON-POTABLE: XFS DRIPLINE
- PERIMETER OF AREA
- PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"-4" FROM PERIMETER OF AREA
- FLUSH POINT (TYPICAL) - SEE RAIN BIRD XFS DETAILS FOR FLUSH POINT INSTALLATION
- BARB X BARB INSERT TEE OR EL: RAIN BIRD XFF-TEE OR RAIN BIRD XFF-ELBOW (TYPICAL)
- PVC RISER PIPE
- PVC SUPPLY MANIFOLD
- PVC SCH 40 SLEEVE PIPE SIZED TWICE THE SIZE OF MANIFOLD PIPE SIZE
- PAVEMENT AND CURB
- TURF OR MULCH
- FINISH GRADE
- 1/2" AIR RELIEF VALVE: RAIN BIRD MODEL: ARV050
SEE RAIN BIRD XFS DETAILS FOR AIR RELIEF INSTALLATION

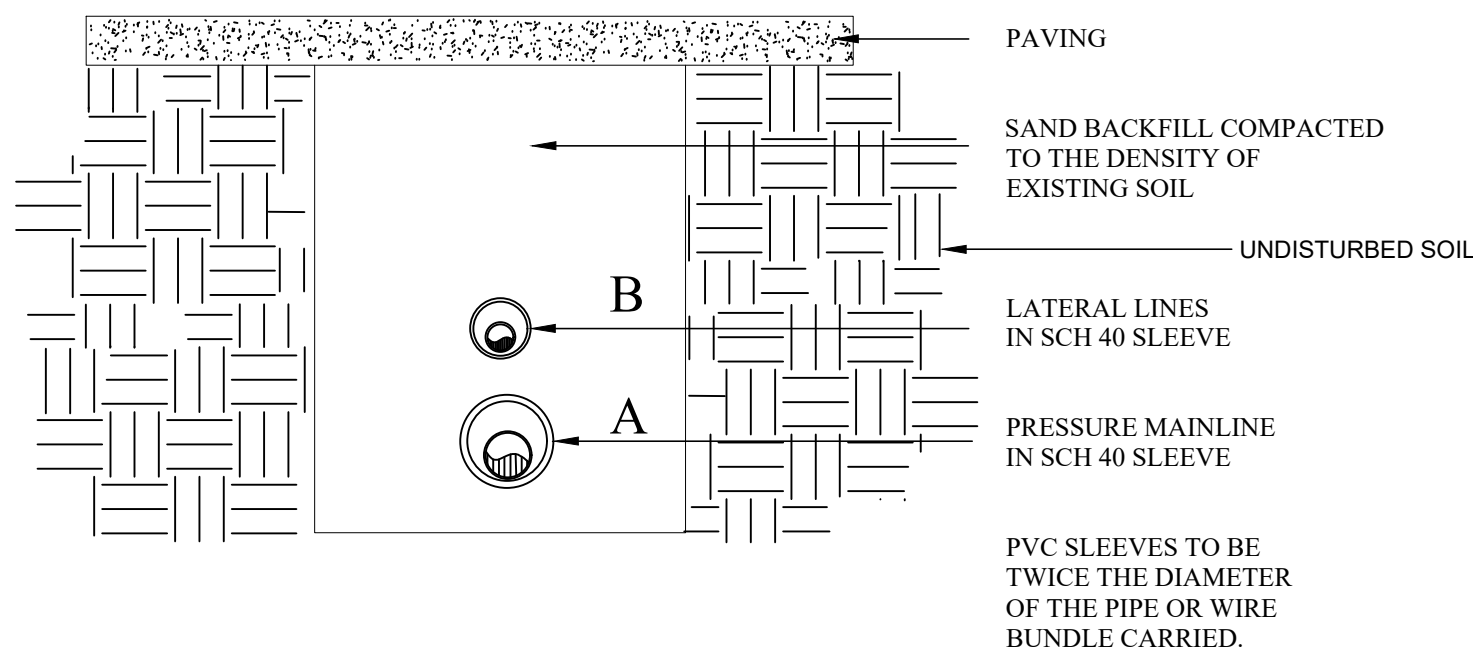


D PUMP



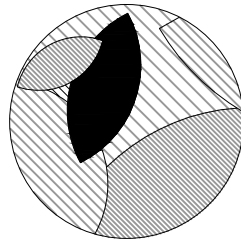
- NOTES:
- SEE PLAN FOR NOZZLE TYPE.

H HUNTER TURF ROTORS



DIMENSION	A	B
1/2" TO 6" IN SIZE	36"	24"

L SLEEVE INSTALLATION



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SOUTH SIDE PARK - B
SAN BENITO, TX

PROJECT:

DESCRIPTION

DATE

10-04-2018

10-31-2018

10-31-18

10-31-18

10-31-18

10-31-18

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