

# TOM GREEN COUNTY

## CHRISTOVAL, TEXAS

# PUGH PARK IMPROVEMENTS

### MAY 13, 2020

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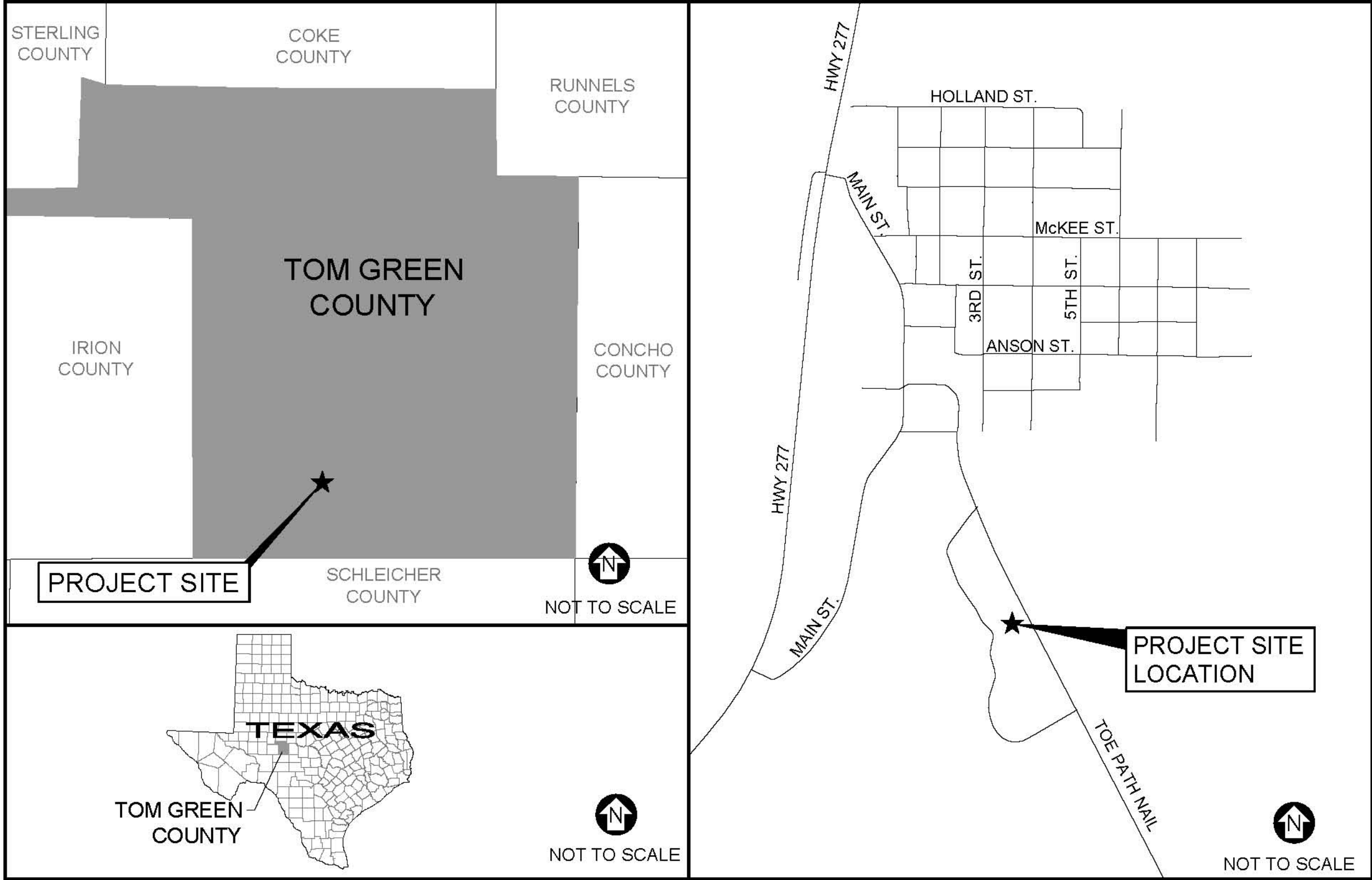
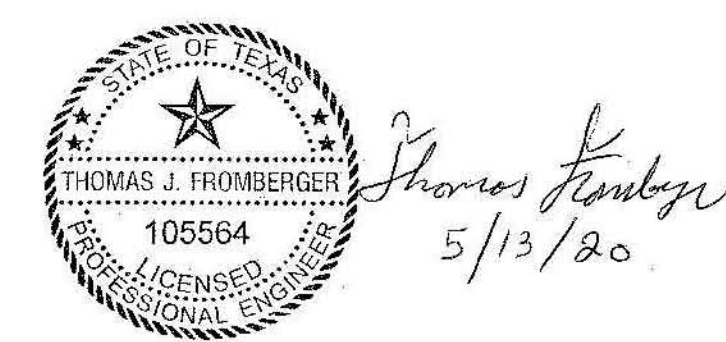
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LITTLE LEAGUE ELECTRICAL SCHEDULES

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**SITE LOCATION MAP**

31° 11' 02.42" N 100° 29' 43.01" W

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MRB GROUP PROJECT # 2054.19002





1. ALL IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE MOST RECENT STANDARDS AND SPECIFICATIONS OF TOM GREEN COUNTY.
2. THE CONTRACTOR SHALL PROVIDE SURVEY STAKEOUT FOR THE PROPOSED IMPROVEMENTS.
3. THE CONTRACTOR SHALL PROVIDE PUMPS, WELL POINTS OR OTHER METHODS OF DEWATERING EXCAVATIONS SO FIRM BEDDING AND FOUNDATION CONDITIONS CAN BE MAINTAINED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TESTING SERVICES FOR MATERIALS, BACKFILL COMPACTION, AND DISINFECTION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL EXISTING SHRUBS AND TREES. ANY SHRUBS OR TREES THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN KIND OR AS NOTED ON PLANS.
6. UNDERGROUND UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL BEAR THE RESPONSIBILITY OF VERIFYING UTILITY LOCATION AND SIZES. THE CONTRACTOR SHALL CALL TEXAS 811 PRIOR TO COMMENCING WORK TO HAVE UTILITIES STAKED IN THE FIELD.
7. THE CONTRACTOR SHALL PERFORM THE WORK IN SUCH A MANNER THAT THE SAFETY OF THE WORKERS IS REASONABLY ASSURED. THIS SHALL INCLUDE PROVISIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).
8. ELECTRIC SERVICES TO BE INSTALLED UNDERGROUND.
9. THE CONTRACTOR SHALL SUPPORT GAS MAINS AND SERVICES EXPOSED BY THEIR EXCAVATION. SUPPORT SYSTEMS SHALL BE AS RECOMMENDED BY THE RESPECTIVE UTILITY OWNERS.
10. THE CONTRACTOR SHALL REQUEST TEMPORARY POLE SUPPORT SERVICES PROVIDED BY THE UTILITY OWNERS AT ANY POLE THAT MAY BE UNDERCUT BY TRENCH OPERATIONS. THE CONTRACTOR SHALL PROVIDE THE UTILITY COMPANY(S) WITH A MINIMUM OF THREE (3) WORKING DAYS NOTICE OF THE NEED FOR POLE SUPPORT.
11. PAVEMENT MARKINGS, TRAFFIC SIGNALS AND/OR SIGNS THAT HAVE BEEN DISTURBED BY THE CONSTRUCTION OPERATIONS SHALL BE RESTORED IN A MANNER CONFORMING TO TxDOT SPECIFICATIONS.
12. EROSION CONTROL MEASURES TO BE ESTABLISHED AND MAINTAINED BY THE CONTRACTOR AT LOCATIONS DETERMINED BY THE OWNER OR ENGINEER.
13. ALL PAVEMENT CUTS SHALL BE MADE BY A PAVEMENT SAW TO NEAREST JOINT. SAW CUTS SHALL BE PERPENDICULAR TO THE LENGTH OF DRIVEWAY. SAW CUTTING SHALL BE REQUIRED PRIOR TO ALL WATER WORK.
14. CONTRACTOR WILL PROTECT AND MAINTAIN AT ALL TIMES DRAINAGE SWALES, PIPES, TILES, ETC., PROTECT AND MAINTAIN AT ALL TIMES ALL SEPTIC SYSTEMS/LEACH FIELDS, ALSO PROTECT AND PRESERVE ALL PROPERTY CORNERS, MONUMENTS, MARKERS, ETC., ANY GUIDE RAILING DAMAGED OR DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED IN KIND.
15. COMPACTED STONE SHALL BE 95% OF MAXIMUM DRY DENSITY IN ACCORDANCE TO THE MODIFIED PROCTOR TEST (ASTM D1557).
16. CONTRACTOR SHALL COMPLETE FINAL GRADING OR STABILIZATION, TOPSOILING AND SEEDING WITHIN TWO (2) WEEKS OF WATER MAIN INSTALLATION. AT NO TIME SHALL THE INSTALLATION PROCESS BE GREATER THAN 5000' AHEAD OF THE FINAL RESTORATION. ALL DISTURBED AREAS WITHIN THE STATE OR COUNTY ROW SHALL BE TOPSOILED, SEEDDED AND MULCHED PRIOR TO CLOSURE EVERY FRIDAY. IN CASE OF INCLEMENT WEATHER, THE AREA SHALL BE RESTORED BEFORE ANY FURTHER EXCAVATION TAKES PLACE ON THE NEXT BUSINESS DAY.
17. CONTRACTOR SHALL SAFEGUARD AND PRESERVE ALL RIGHT-OF-WAY MONUMENTS AND PROPERTY CORNERS ALONG THE PROJECT ROUTE. ALL PROPERTY CORNERS THAT ARE DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION ARE TO BE REPLACED AND CERTIFIED BY A TEXAS LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER CONDITION, ANY DAMAGES DONE TO EXISTING FENCES, STREETS, DRIVEWAYS, LANDSCAPING AND STRUCTURES, AND ANY EXISTING UTILITIES. COSTS OF RESTORATIONS, IF ANY, SHALL BE THE CONTRACTORS ENTIRE EXPENSE.
19. ANY TREE CLEARING SHALL BE CONSIDERED INCIDENTAL TO PROJECT INCLUDE IN CONTRACTORS BID PRICE.

1. ALL WORK TO BE IN STRICT CONFORMANCE WITH TEXAS STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, NEC, OSHA, NAPHCC, ANSI, NFPA & LOCAL GOVERNING MUNICIPAL AGENCIES AS WELL AS ANY AND ALL BUILDING RULES.
2. THE CONTRACTOR SHALL PERFORM THE WORK IN SUCH A MANNER THAT THE SAFETY OF THE WORKERS IS REASONABLY ASSURED. THIS SHALL INCLUDE PROVISIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).
3. THE CONTRACTOR SHALL COMPLY WITH ALL CONTRACTUAL REQUIREMENTS; BE RESPONSIBLE FOR CONTROL OF CONSTRUCTION LOCATIONS, ELEVATIONS, DIMENSIONS, AND QUANTITIES.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, AND FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK; CONTRACTOR WILL BE RESPONSIBLE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
5. COORDINATE ARCHITECTURAL DRAWINGS WITH STRUCTURAL DRAWINGS, ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE WHERE DRAWINGS CONFLICT. FAILURE TO INCORPORATE OR BUILD TO ARCHITECTURAL DETAILS EVEN IF NOT INDICATED ON STRUCTURAL DRAWINGS DOES NOT OBVIATE CONTRACTORS RESPONSIBILITY. NOTIFY ARCHITECT IMMEDIATELY IF DISCREPANCY IS FOUND.
6. CONTRACTOR TO CONTACT ARCHITECT IF CONDITIONS OTHER THAN THOSE REPRESENTED ON THE DRAWINGS ARE ENCOUNTERED.
7. EXISTING STRUCTURES, EQUIPMENT, AND PIPING ADJACENT TO PROPOSED CONSTRUCTION OR IMPROVEMENTS SHALL BE ADEQUATELY SUPPORTED AND PROTECTED DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY NEW OR EXISTING STRUCTURES, PIPING, EQUIPMENT, ETC. THAT IS DAMAGED DURING CONSTRUCTION.
8. THE GENERAL CONTRACTOR TO PROVIDE TEMPORARY HEAT, VENTILATION, POWER AND LIGHTING THROUGHOUT COURSE OF JOB WHERE REQUIRED.
9. THE CONTRACTOR SHALL NOT DISTURB ANY AREAS BEYOND THOSE SHOWN ON THE DRAWINGS AND SHALL LIMIT THE EXTENT OF DISTURBANCE FOR EACH AREA OF CONSTRUCTION AS MUCH AS POSSIBLE. THE CONTRACTOR SHALL UTILIZE EVERY EFFORT TO MINIMIZE DISTURBANCE TO THE SURROUNDING AREA.
10. PRIOR TO COMPLETION OF ALL WORK, CLEAN PREMISES FOR OCCUPANCY. WORK AREA SHALL BE MAINTAINED IN ORGANIZED & BROOM CLEAN CONDITION AT ALL TIMES.
11. SPRINKLER & FIRE DETECTION MODIFICATIONS SHALL BE PERFORMED STRICTLY ACCORDING TO CODE. CONTRACTOR SHALL PROVIDE ANY/ALL NECESSARY DESIGN INFORMATION, CALCULATIONS & DRAWINGS AS NECESSARY FOR MUNICIPAL APPROVAL & CODE COMPLIANT INSTALLATION. THESE CONTRACTOR PROVIDED DRAWINGS SHALL BE STAMPED BY LICENSED ENGINEER AS REQUIRED BY MUNICIPALITY.
12. ENSURE ALL INSULATION, FENESTRATION, & ENVELOPE REQUIREMENTS MEET CURRENT CODE, INCLUDING CODE SUPPLEMENTS ADOPTED BY TEXAS STATE AND LOCAL MUNICIPALITIES.
13. ALL REFERENCES TO "THE CONTRACTOR" IN THESE CONTRACT DOCUMENTS REFER TO THE GENERAL CONTRACTOR (GC) UNLESS NOTED OTHERWISE.
14. ALL LOUVERS ARE TO BE PROVIDED BY MEP CONTRACTORS AND TO BE INSTALLED AND SEALED BY THE GC.

1. ATTENTION ALL USERS OF THESE DRAWINGS, GENERAL CONTRACTORS, SUB-CONTRACTORS, MANUFACTURERS, SUPPLIERS: CAREFULLY AND THOROUGHLY REVIEW THESE GENERAL NOTES. IT IS YOUR RESPONSIBILITY TO KNOW AND ADHERE TO THESE REQUIREMENTS.
2. THE DRAWINGS AND SPECIFICATIONS ARE SEPARATED INTO DISCIPLINES FOR THE CONVENIENCE OF THE ARCHITECT AND THE CONTRACTOR. THE SEPARATIONS USED HEREIN ARE USED ONLY FOR THE PURPOSES OF CONVENIENCE AND REFERENCE, AND IN NO WAY DO THEY DEFINE OR LIMIT THE SCOPE OR INTENT OF ANY PART OF THE DRAWINGS, OR OF THE DRAWINGS AND SPECIFICATIONS AS A WHOLE. THE FACT THAT THE DRAWINGS ARE SEPARATED IN NO WAY SUGGESTS THAT THE WORK IS NOT TO BE CONSTRUCTED AS A COMPLETE, INTEGRATED AND UNIFIED WHOLE.
3. EVERY EFFORT HAS BEEN MADE TO MAKE THESE DOCUMENTS CONCISE AND COORDINATED, TO DEFINE WORK IN THE MOST LOGICAL PLANE AND TO ELIMINATE REDUNDANCY, NOT PRESUME THAT YOUR SCOPE OF WORK IS SINGULARLY DEFINED, YOUR SCOPE OF WORK IS DEFINED THROUGHOUT THE ENTIRE SET OF DRAWINGS AND SPECIFICATIONS AND IS NOT CONTAINED IN JUST ONE SERIES OF DRAWINGS OR DIVISION OF SPECIFICATIONS. YOU MUST REVIEW THE ENTIRE SET OF CONTRACT DOCUMENTS TO DETERMINE YOUR SCOPE OF WORK.
4. THE DRAWINGS AND SPECIFICATIONS, INCLUDING DRAWINGS PREPARED BY SPECIFIC ENGINEERING DISCIPLINES (SUCH AS CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, ETC.) ARE COMPLEMENTARY; ITEMS SHOWN IN ANY ONE LOCATION IN THE DRAWINGS SHALL BE CONSIDERED TO BE REQUIREMENTS OF THE CONTRACT FOR CONSTRUCTION. IN THE EVENT OF AN INCONSISTENCY BETWEEN THE DRAWINGS AND SPECIFICATIONS, OR WITHIN EITHER DOCUMENT, THE CONTRACTOR SHALL SEEK CLARIFICATION OR INTERPRETATION FROM THE ARCHITECT PRIOR TO BIDDING. WHERE INCONSISTENCIES ARE NOT CLARIFIED PRIOR TO BIDDING, AND WHERE THE ACTUAL SOLUTION OR INTENT CANNOT BE REASONABLY INFERRED, THE CONTRACTOR SHALL PROVIDE THE BETTER QUALITY OR GREATER QUANTITY OF WORK.
5. MECHANICAL AND ELECTRICAL DRAWINGS MAY SHOW INFORMATION IN A DIAGRAMMATIC FASHION WITHOUT DIMENSIONING. THE GENERAL CONTRACTOR IS TO COORDINATE THE LOCATIONS OF ALL M.E. EQUIPMENT WITH RESPECT TO THE ARCHITECTURAL AND STRUCTURAL DETAILING OF SHAFTS, CHASES, ETC.,
6. THE CONTRACTOR AND ALL SUB-CONTRACTORS SHALL VISIT THE SITE AND BECOME FAMILIAR WITH SITE CONDITIONS AS THEY MAY AFFECT CARRYING OUT THE WORK DESCRIBED IN THESE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL INVESTIGATE AND BE RESPONSIBLE FOR ALL CONDITIONS OF THE PROJECT, AND NOTIFY THE ARCHITECT OF ANY CONDITIONS THAT REQUIRE MODIFICATION BEFORE PROCEEDING WITH THE WORK.

	COLUMN GRID
	EXISTING WALL
	NEW WALL
	WALL TO BE REMOVED
	NEW / RELOCATED DOOR MARKER
	DOOR / WINDOW TO BE REMOVED
	ROOM / SPACE NUMBER
	PARTITION TYPE
	WINDOW TYPE
	ELEVATION INDICATOR, EXTERIOR
	SECTION MARKER
	DETAIL MARKER
	BENCH MARK
	SPOT ELEVATION
	EQUIPMENT TYPE
	REVISION
	BREAK LINE
	CENTER LINE INDICATOR
	CENTER LINE
	ITEMS SHOWN ABOVE OR BELOW
	FIRE EXTINGUISHER CABINET
	KEYNOTE

A.C.T	ACOUSTICAL CEILING TILE	JT.	JOINT
ADJ	ADJACENT	KIT.	KITCHEN
A.F.F.	ABOVE FINISH FLOOR	LAM.	LAMINATE
ALV.	ALUMINUM	LAV.	LAVATORY
ALT.	ALTERNATE	LWT.	LIGHT WEIGHT
ANOD	ANODIZED	MAS.	MASONRY
APPROX.	APPROXIMATE	MAT.	MATERIAL
ARCH.	ARCHITECTURAL	MAX.	MAXIMUM
ASPH.	ASPHALT	MECH.	MECHANICAL
AUTO.	AUTOMATIC	MEMB	MEMBRANE
BD.	BOARD	MET.	METAL
BLDG.	BUILDING	MEZZ.	MEZZANINE
BLK.	BLOCK	MIN.	MINIMUM
BLKG.	BLOCKING	MIR.	MIRROR
BLT.	BOLT	MISC.	MISCELLANEOUS
BM.	BEAM	M.O.	MASONRY OPENING
BOT.	BOTTOM	MTD.	MOUNTED
BRK.	BRICK	MTG.	MOUNTING
BSMNT.	BASEMENT	MTL.	METAL
CAB.	CABINET	MUL.	MULLION
CER.	CERAMIC	MW.	MICROWAVE
C.J.	CONTROL JOINT	N.	NORTH
CLG.	CEILING	N.I.C	NOT IN CONTRACT
CLKG.	CAULKING	NO. #	NUMBER
CLOS.	CLOSET	NOM.	NOMINAL
CLR.	CLEAR	N.T.S	NOT TO SCALE
C.M.U.	CONCRETE MASONRY UNIT	O.A	OVERALL
COL.	COLUMN	O.C.	ON CENTER
CONC.	CONCRETE	O.D.	OUTSIDE DIAMETER
CONN.	CONNECT	OFF.	OFFICE
CONST.	CONSTRUCTION	OH.	OVERHEAD
CONT.	CONTINUED, CONTINUOUS	OPNG.	OPENING
COORD.	COORDINATE	OPP.	OPPOSITE
CORR.	CORRIDOR	O.H.	OPPOSITE HAND
CTR.	CENTER	OZ	OUNCE
C.L.	CENTERLINE	PAV.	PAVING
DBL.	DOUBLE	PL.	PLATE
DEMO.	DEMOLISH	P.LAM	PLASTIC LAMINATE
DEPT.	DEPARTMENT	PLAS.	PLASTER
DET.	DETAIL	PLYWD.	PLYWOOD
DIA.	DIAMETER	PR.	PAIR
DIM.	DIMENSION	PRCST.	PRECAST
DIV.	DIVISION	PT.	PRESSURE TREATED
DN.	DOWN	PTD.	PAINTED
DR.	DOOR	PART.	PARTITION
D.S.	DOWN SPOUT	RADIUS	
DWG.	DRAWING	R.B.	RESILIENT BASE
DWR.	DRAWER	R.C.P.	REFLECTED CEILING PLAN
EA.	EACH	R.D.	ROOF DRAIN
E.J.	EXPANSION JOINT	REC.	RECESSED
E.L.ELEV.	ELEVATION	REF.	REFERENCE
ELEC.	ELECTRICAL	REFR.	REFRIGERATOR
ELEV.	ELEVATOR	REFR.	REINFORCED
ENCL.	ENCLOSURE	REQ.	REQUIRED
ENT.	ENTRANCE	RESIL.	RESILIENT
EQ.	EQUAL	REV.	REVISION
EQUIP.	EQUIPMENT	RGTR.	REGISTER
E.W.	EACH WAY	RM.	ROOM
EXIST.	EXISTING	R.O.	ROUGH OPENING
EXP.	EXPANSION	R.W.L.	RAIN WATER LEADER
EXPO.	EXPOSED	S.	SOUTH
EXT.	EXTERIOR	S.C.	SOLID CORE
F.A.	FIRE ALARM	SCHED.	SCHEDULE
F.D.	FLOOR DRAIN	SECT.	SECTION
FDN.	FOUNDATION	SHR.	SHOWER
F.E.	FIRE EXTINGUISHER	SHT.	SHEET
F.E.C.	FIRE EXTINGUISHER CABINET	SIM.	SIMILAR
FIN.	FINISH	S.P.	STANDPIPE
FIXT.	FIXTURE	SPEC.	SPECIFICATION
FLASH.	FLASHING	SQ.	SQUARE
FLOUR.	FLUORESCENT	SS.	STAINLESS STEEL
F.O.	FACE OF	SK.	SERVICE SINK
F.O.C.	FACE OF CONCRETE	STD.	STANDARD
F.O.E.W.	FACE OF EXISTING WALL	STL.	STEEL
F.O.F.	FACE OF FINISH	STOR.	STORAGE
F.O.M.	FACE OF MASONRY	STRUCT.	STRUCTURAL
F.O.S.	FACE OF STUDS	SUSP.	SUSPENDED
F.S.	FULL SIZE	SYM.	SYMMETRICAL
FT.	FOOT, FEET	TEMP.	TEMPERED
FTG.	FOOTING	T.G.	TEMPERED GLASS
FURR.	FURRING	T.&G.	TONGUE AND GROOVE
FUT.	FUTURE	TH.	THICK
GA.	GAUGE	TLT.	TOILET
GALV.	GALVANIZED	T.O.	TOP OF
G.B.	GRAB BAR	T.O.W.	TOP OF WALL
GEN.	GENERAL	TYP.	TYPICAL
GFCMU	GRAND FACE C.M.U.	U.O.N.	UNLESS OTHERWISE NOTED
GL.	GLASS	VB.	VAPOR BARRIER
GLZ.	GLAZING	V.C.T.	VINYL COMPOSITION TILE
GND.	GROUND	VERT.	VERTICAL
GR.	GRADE	VEST.	VESTIBULE
G.W.B.	GYPSPUM WALL BOARD	V.I.F.	VERIFY IN FIELD
H.C.	HOLLOW CORE	VNR.	VENEER
HD.	HEAD	VOL.	VOLUME
HDWD.	HARDWOOD	W.	WEST
H.M.	HOLLOW METAL	W/	WITH
HORIZ.	HORIZONTAL	W.C.	WATER CLOSET
HOUR.	HOUR	WD.	WOOD
HT.	HEIGHT	WIN.	WINDOW
I.D.	INSIDE DIAMETER	WK.	WORK
IN.	INCH, INCHES	W/O	WITHOUT
INCL.	INCLUDE(D)	WP.	WATERPROOFING
INSUL.	INSULATION	WT.	WEIGHT

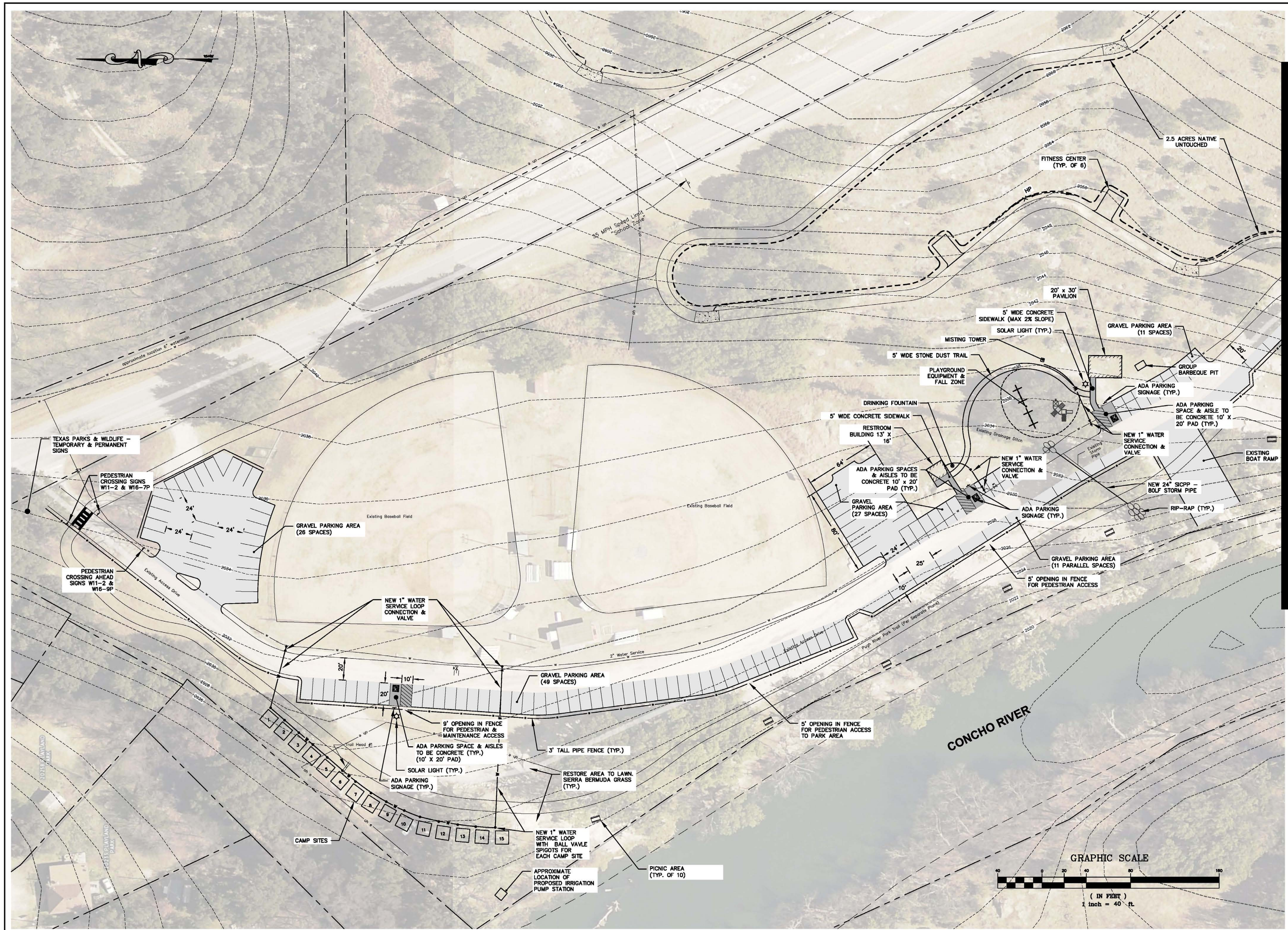
1. ALL SWALES AND SEDIMENTATION TRAPS MUST BE CLEANED AND MAINTAINED AT ALL TIMES BY CONTRACTOR TO ALLOW ADEQUATE DRAINAGE.
2. CONTRACTOR MUST PROTECT AT ALL TIMES ADJACENT PROPERTIES AND ROADWAYS FROM SEDIMENTATION, EROSION, RUNOFF, DEBRIS AND/OR ANY OTHER EFFECTS FROM THE SITE CONSTRUCTION.
3. UPON INSTALLATION OF DRAINAGE CULVERTS CONTRACTOR MUST MAINTAIN AND PERIODICALLY FLUSH THOSE CULVERTS TO ALLOW DRAINAGE FLOWS.
4. CONTRACTOR(S) MUST TAKE ALL PRECAUTIONS AS NECESSARY AND/OR AS ORDERED BY ENGINEER FOR DUST CONTROL AND FLYING DEBRIS PROTECTION. (ie. WATER, FENCE, MATTING, COVERS, ETC.)
5. DURING CONSTRUCTION, BEFORE SUFFICIENT SEEDING COVER IS ESTABLISHED ON STEEPER SLOPES, CONTRACTOR MAY BE REQUIRED TO PLACE MATTING, BLANKETS, OR OTHER MEASURES TO PROTECT SLOPES AGAINST EROSION AS NECESSARY AND/OR AS ORDERED BY THE ENGINEER
6. CONTRACTOR SHALL BE RESPONSIBLE FOR FULL COMPLIANCE WITH THE LOCAL STREAMWATER REQUIREMENTS.
7. ALL EROSION CONTROL MEASURES WITHIN TEXAS HIGHWAY BOUNDARY SHALL CONFORM TO TxDOT STANDARD SPECIFICATION.
8. ALL EROSION CONTROL MEASURES SHALL BE ROUTINELY CHECKED, CLEANED AND REPAIRED, PARTICULARLY AFTER STORM EVENTS.
9. SILT FENCE SHALL BE ERRECTED AT THE LIMITS OF ALL DISTURBED AREAS WHERE, IN THE JUDGMENT OF THE ENGINEER, THERE IS THE POTENTIAL FOR FILTRATION OF STREAMS, STORM SEWERS, WETLANDS OR NEIGHBORING PROPERTIES, REGARDLESS OF WHETHER THE SILT FENCE IS INDICATED ON THE DRAWINGS.

1. INSTALL ALL EROSION CONTROL DEVICES AS NECESSARY, PRIOR TO EARTHWORK CONSTRUCTION. BASED ON FIELD PERFORMANCE AND WEATHER CONDITIONS, ADDITIONAL EROSION CONTROL DEVICES MAY BE REQUIRED. DISTURBANCE TO THE SITE TO BE LIMITED.
2. CONTRACTOR SHALL RESTRICT GRADING OPERATIONS TO THE AREAS INDICATED ON THE CONTRACT DRAWINGS. PERFORMING WORK OUTSIDE THE IDENTIFIED LIMITS SHALL NOT BE PERMITTED WITHOUT APPROVAL OF THE ENGINEER.
3. PROTECT EXISTING VEGETATION AND OTHER ENVIRONMENTAL FEATURES TO BE PRESERVED WITH CONSTRUCTION BARRIERS.
4. CONSTRUCTION OF SITE IMPROVEMENTS MAY BEGIN AT THIS TIME. A MAXIMUM OF 5 ACRES OF DISTURBED SOIL IS PERMITTED AT ANY ONE TIME PRIOR TO STABILIZATION.
5. RESTORE EROSION CONTROL MEASURES AS NEEDED FOLLOWING THE UTILITY INSTALLATION. CONTINUE TO MAINTAIN AND REPAIR TEMPORARY EROSION CONTROL DEVICES THROUGHOUT CONSTRUCTION AS NEEDED.
6. COMPLETE FINAL GRADING OF SITE. AREAS TO REMAIN UNDISTURBED FOR GREATER THAN 14 DAYS WILL BE SEEDED/MULCHED. REAPPLY TOPSOIL, INSTALL PERMANENT SEEDING, FERTILIZER AND MULCH.
7. ALL TEMPORARY EROSION CONTROL DEVICES SHALL BE MAINTAINED BY THE CONTRACTOR.
8. EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL AN APPROVED PERMANENT COVER OF VEGETATION IS ESTABLISHED. REMOVAL OF DEVICES TO BE COORDINATED WITH THE OWNER, LOCAL MUNICIPALITY OR REPRESENTATIVE THEREOF.







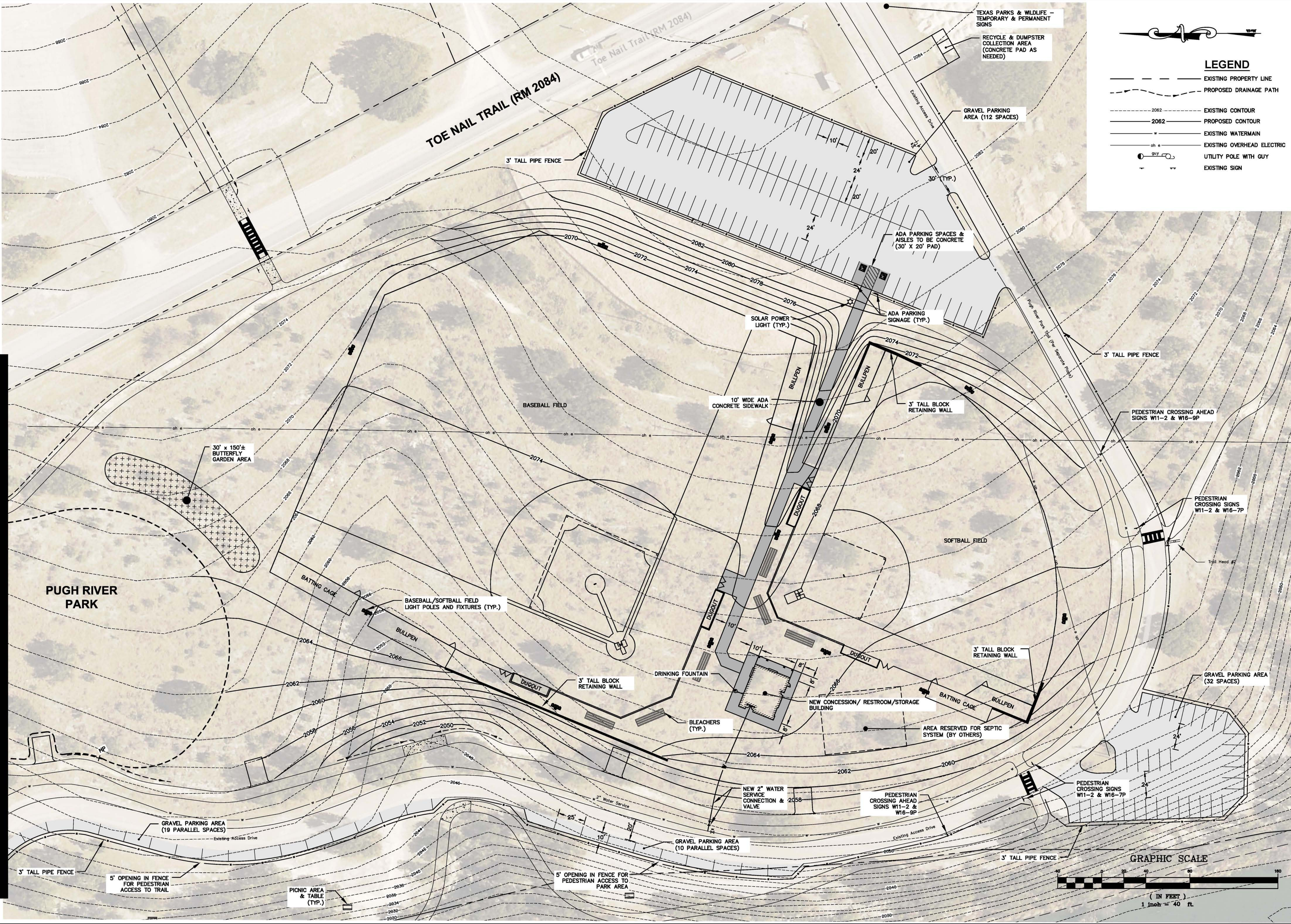


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Sheet No. <b>G-2</b>				Project No. <b>2054.19002</b>		



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MATCH TO G-2



Project Title:		TOM GREEN COUNTY PUGH PARK IMPROVEMENTS CHRISTOVAL, TEXAS	
Drawn By:	JPJ / CNC	Checked By:	KJM / TLF
Scale:		1" = 40'	
Date:	3/25/20		
Drawing Title:		PUGH PARK SOUTH	
Project No.:		2054.19002	
Sheet No.:		G-3	
Project No.:		2054.19002	

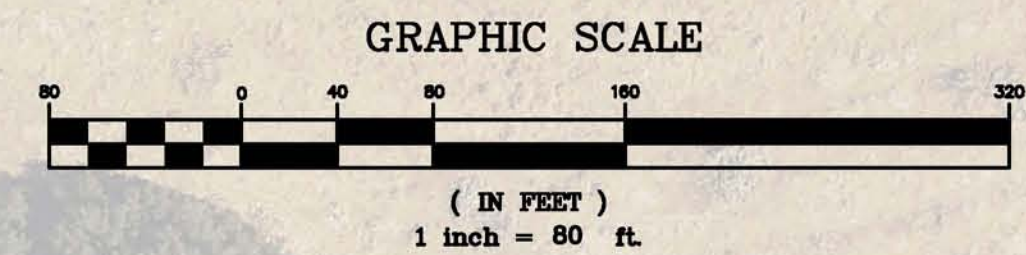
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3	ELECTRICAL PLANS ADDED & UPDATED DETAILS	TJF	5/13/20
2	ADDITIONAL BASEBALL & SOFTBALL DETAILS	TJF	5/4/20
1	REVISED PER COUNTY IRRIGATION & WATER	TJF	4/24/20
No.	Revisions and Descriptions	By	Date

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Sheet No. **G-4**

\_\_\_\_\_ of \_\_\_\_\_

Project No.  
**2054.19002**











48"

Tom Green County  
Pugh Park Project

With Funding Assistance through

LAND AND WATER CONSERVATION FUND

U.S. Department of the Interior, National Park Service

Administered by the Texas State Parks & Wildlife Department



Land and Water Conservation Fund	50%	\$500,000
Tom Green County	50%	\$500,000
Total Project		\$1,000,000

3" Text

2" Text

3" Text

2" Text

2" Text

NOTE: MOUNT SIGN TO PAINTED PLYWOOD ON (2) 4x4 POSTS, LOCATE AT ENTRANCE TO PARK

96"

TEMPORARY SIGNAGE

18"

TEXAS  
PARKS &  
WILDLIFE

LAND & WATER  
CONSERVATION  
FUND

A LAND AND WATER CONSERVATION  
FUND PROGRAM PROJECT

Funding Assistance through  
U.S. Department of the Interior, National Park Service  
Administered by Texas Parks & Wildlife Department

1" TEXT

5/8" TEXT

NOTE: SIGNAGE MATERIALS TBD BY OWNER

24"

PERMANENT SIGNAGE / PLAQUE

Project Title:  
TOM GREEN COUNTY  
PUGH PARK IMPROVEMENTS  
CHRISTOVAL, TEXAS

Drawing Title:  
SIGNAGE - TEMPORARY & PERMANENT

Drawn By:  
CNC

Checked By:  
RS

Scale:  
3" = 1'-0"

Date:  
02/25/2020

REGISTERED ARCHITECT  
TANYA L. MIKE  
STATE OF TEXAS  
11-25-2020

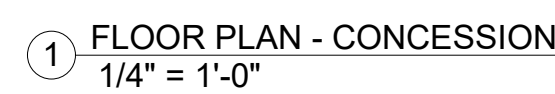
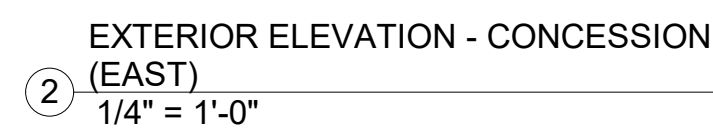
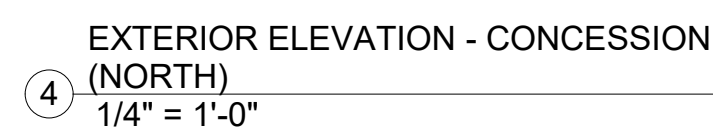
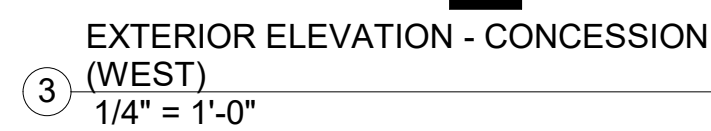
MRB group  
Engineering, Architecture & Surveying  
5250 South 31st Street, Temple, Texas 76702 Phone: 254.771.2054  
Corporate Office: The Culver Road Annex, 145 Culver Road, Suite 101, Rochester, New York 14620  
11811 Pine Street, Suite 100, E-10013  
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Sheet No.  
A1.01  
of

Project No.  
2054.19002

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**TOM GREEN COUNTY  
HIGH PARK IMPROVEMENTS  
CHRISTOVAL, TEXAS**

ong Title:  
**PLAN & ELEVATIONS - CONCESSION**

Project Title:

3 y:

3 y:

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3 y:



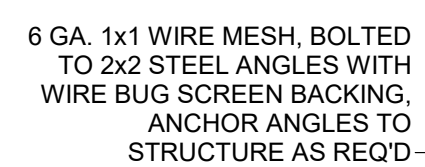
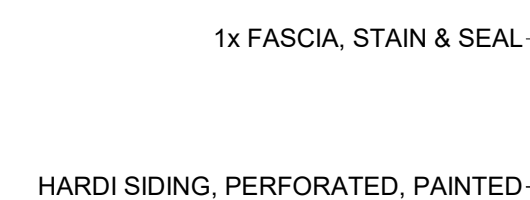
**MRB** | *group*  
Engineering, Architecture & Surveying

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Phone: 585-381-9250  
TBPE Firm Number: F-10615  
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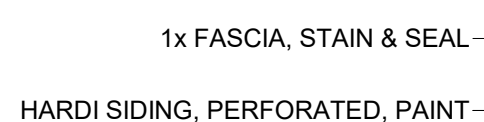
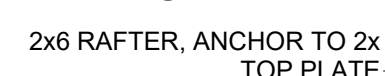
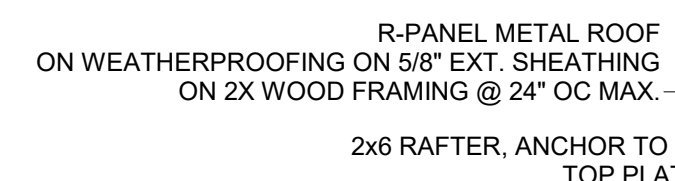
Sheet No.  
**A2.01**  
\_\_\_\_\_ of \_\_\_\_\_  
Project No.  
**2054.19002**

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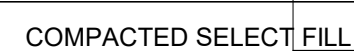
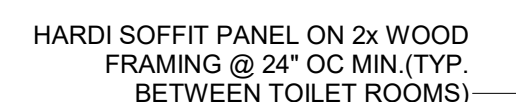
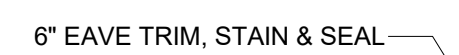




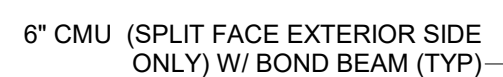
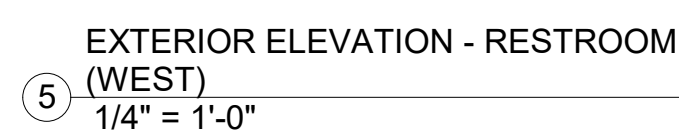
9 BUG SCREEN DETAIL  
1 1/2" = 1'-0"



8 WALL DETAIL - RESTROOM  
3/4" = 1'-0"



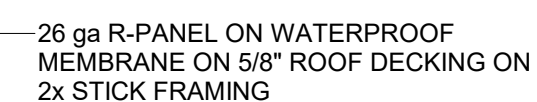
7 BUILDING SECTION - RESTROOM2  
1/4" = 1'-0"



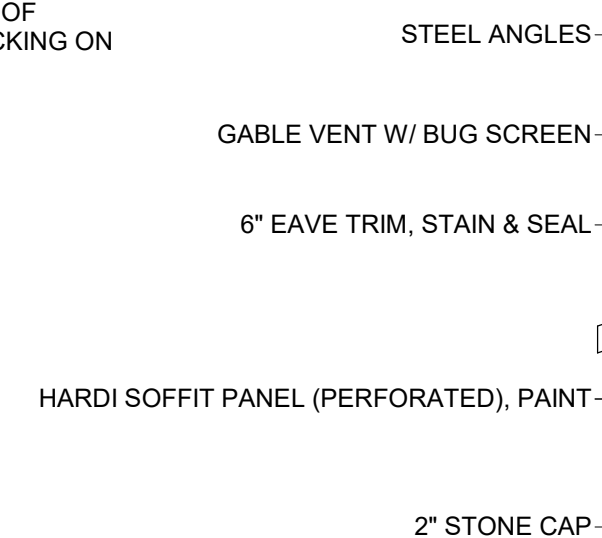
4 EXTERIOR ELEVATION - RESTROOM (EAST)  
1/4" = 1'-0"



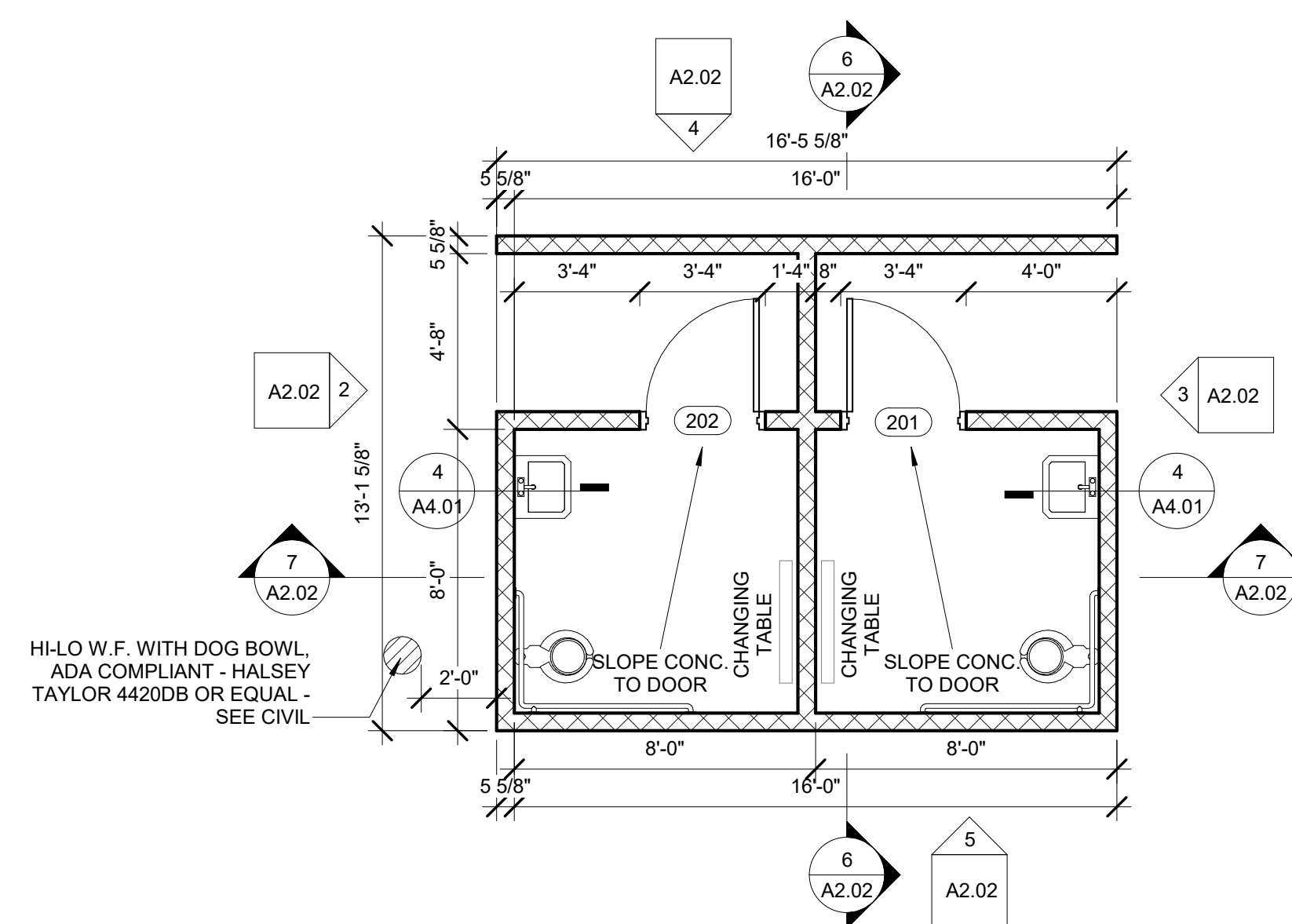
⑥ BUILDING SECTION - RESTROOM  
1/4" = 1'-0"



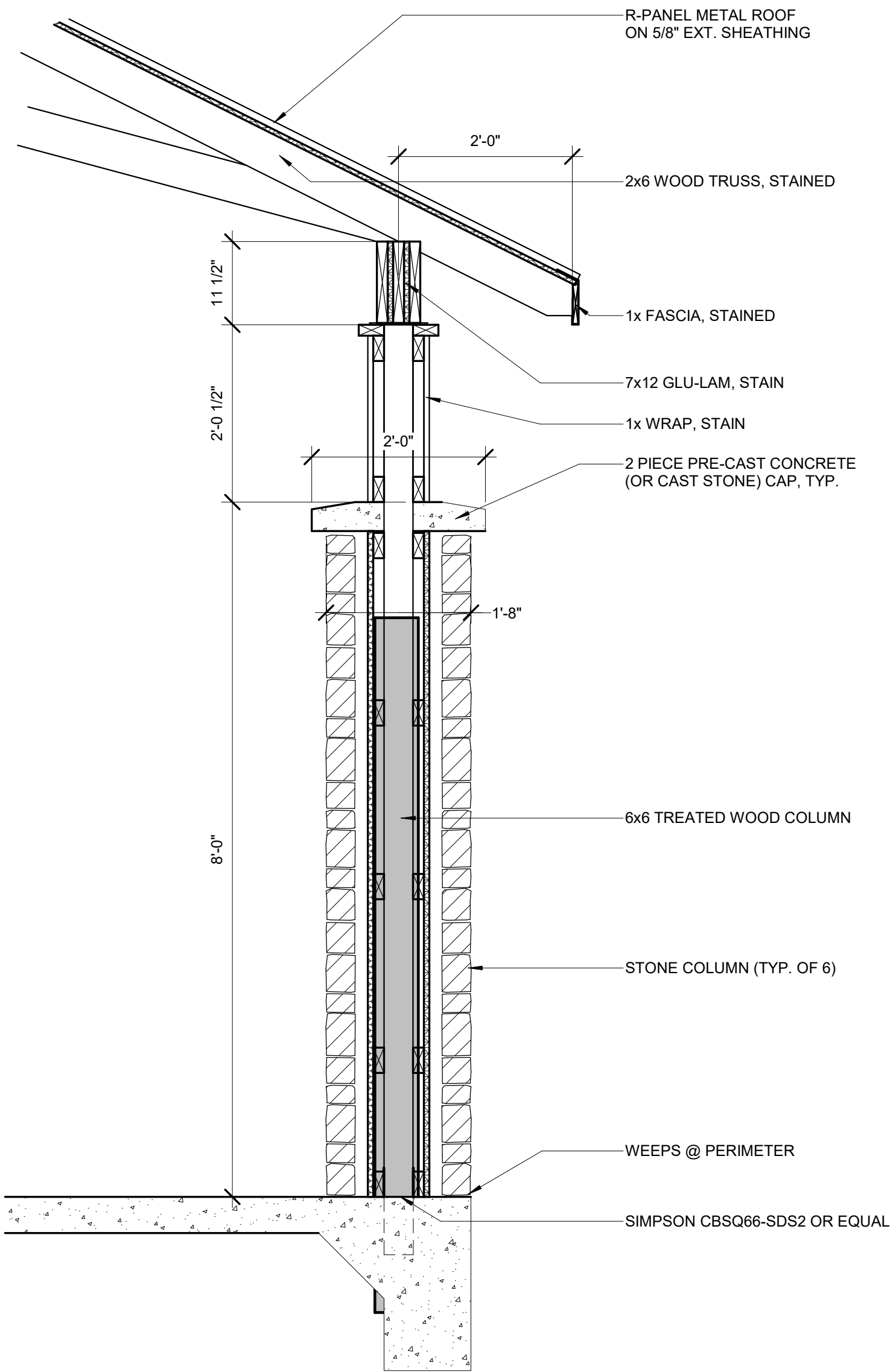
3 EXTERIOR ELEVATION - RESTROOM  
(SOUTH)  
1/4" = 1'-0"



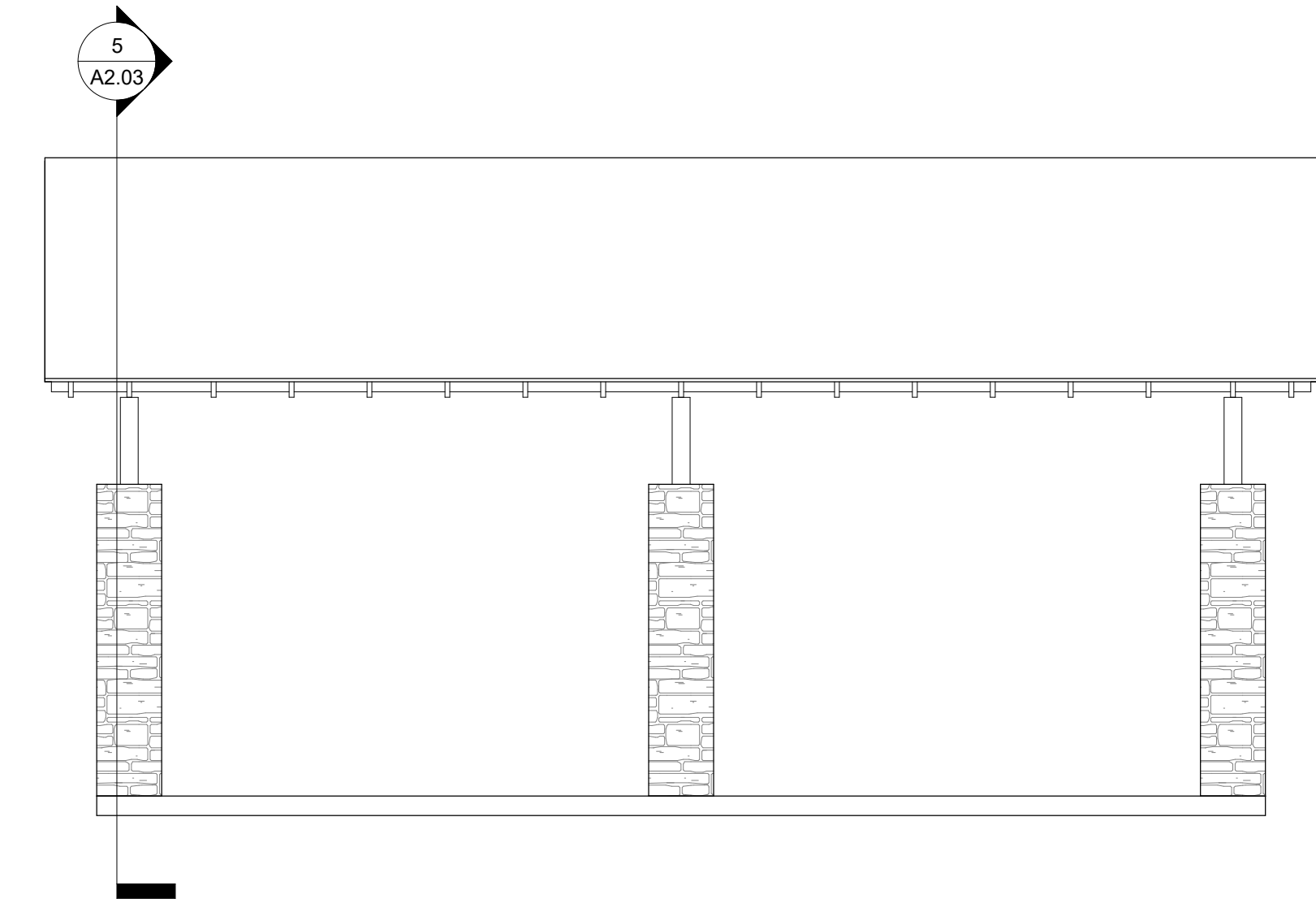
EXTERIOR ELEVATION - RESTROOM  
(NORTH)



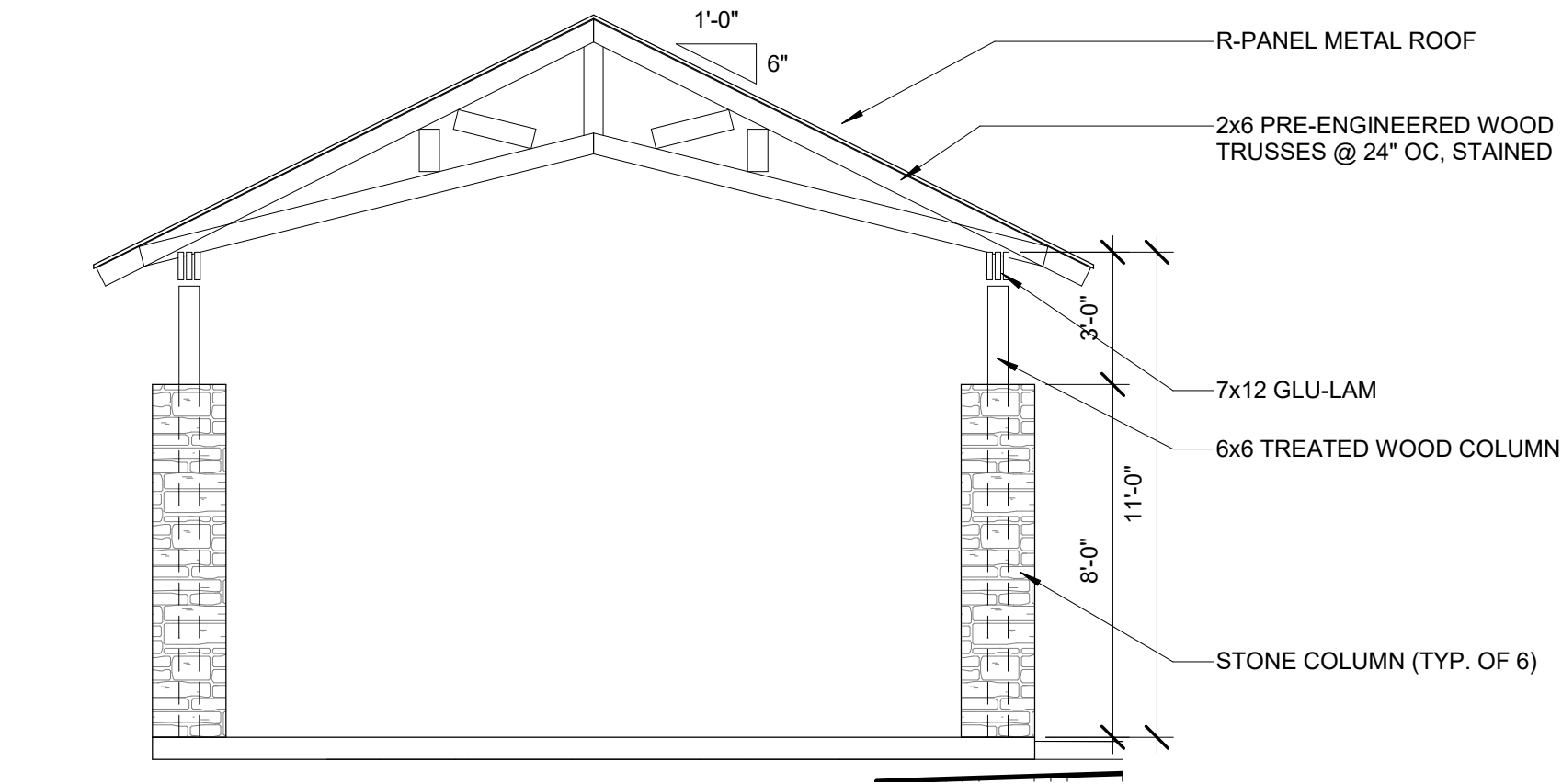




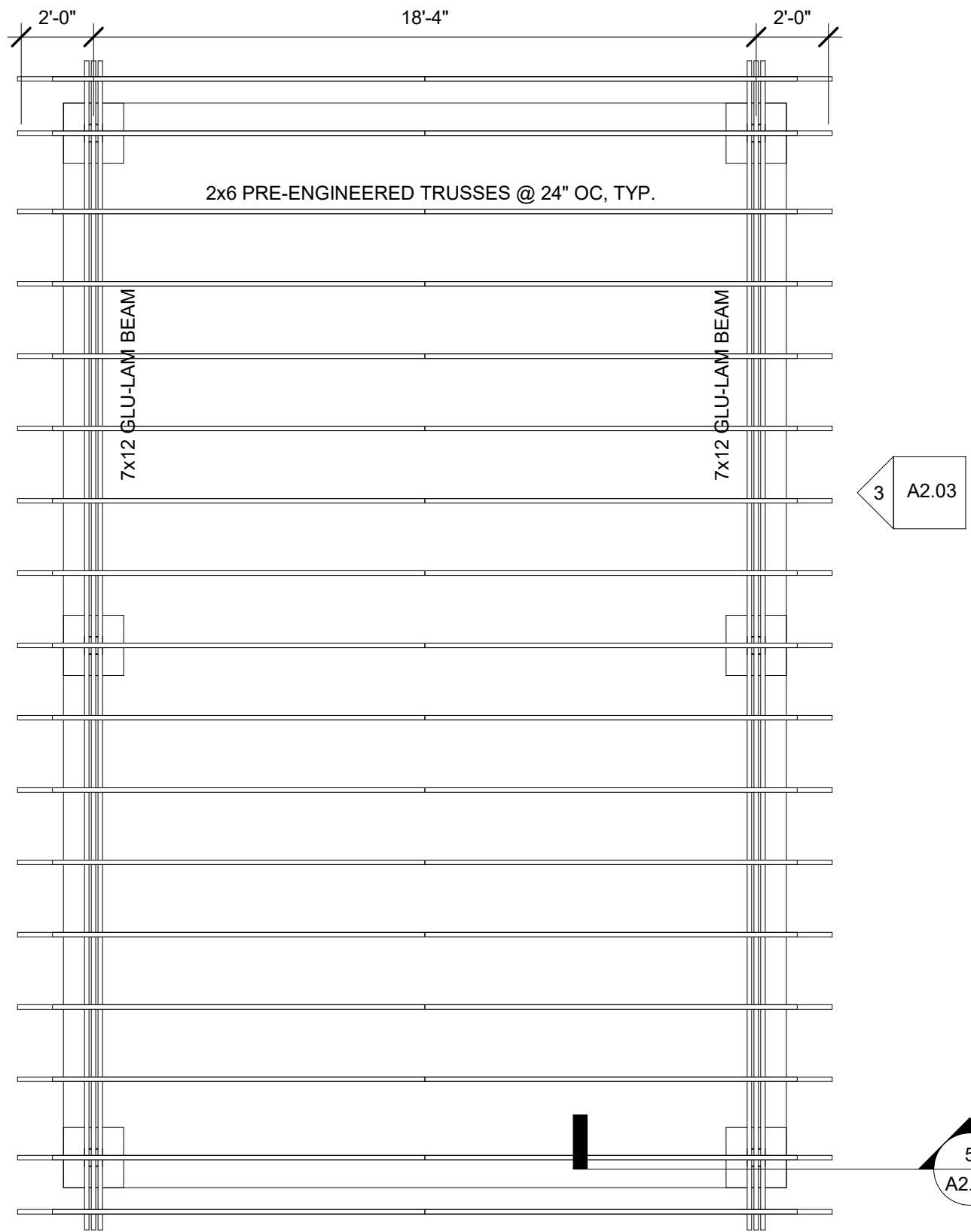
5 PAVILION COLUMN SECTION  
3/4" = 1'-0"



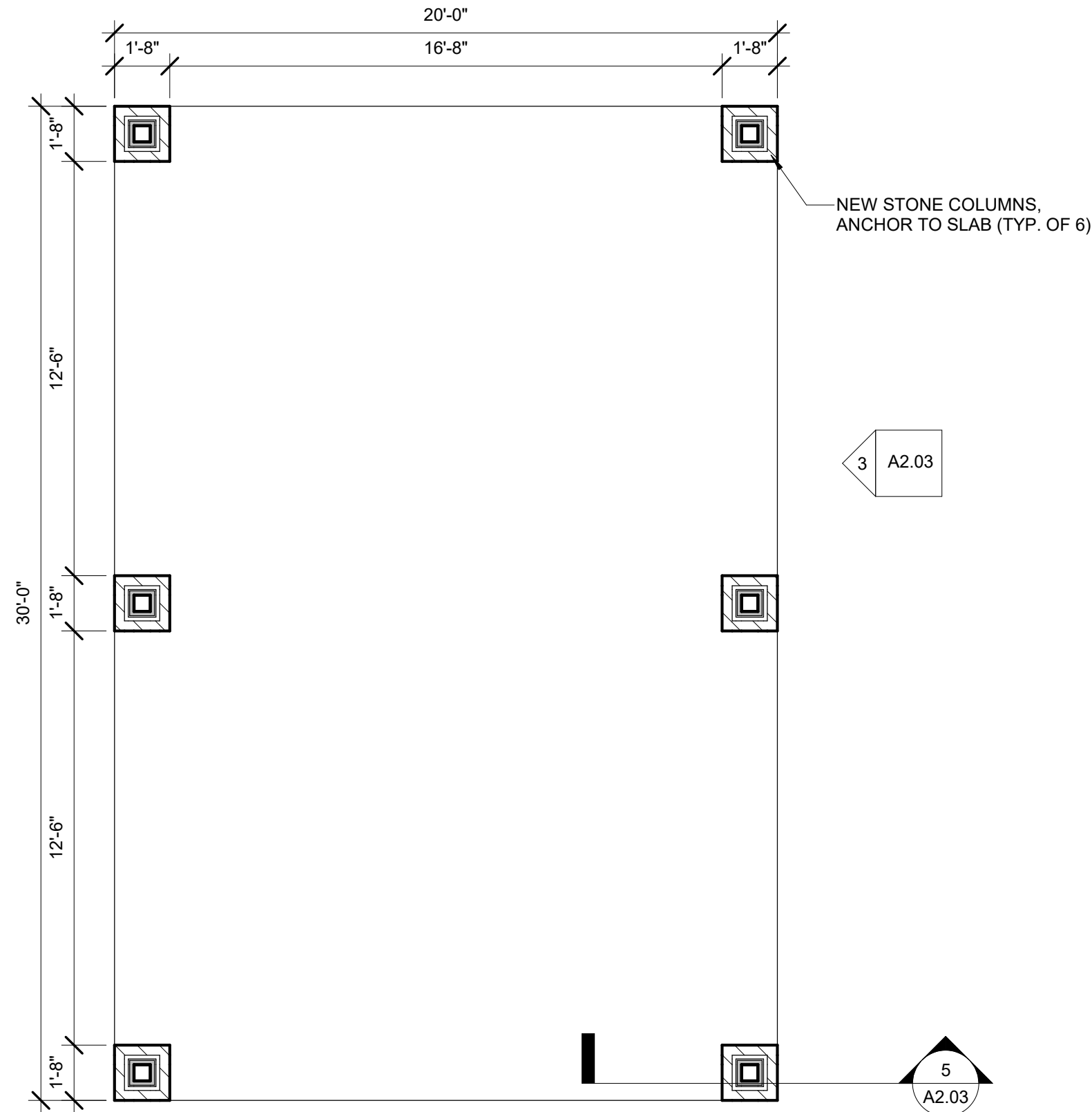
3 EXTERIOR ELEVATION - PAVILION  
(WEST/EAST)  
1/4" = 1'-0"



2 EXTERIOR ELEVATION - PAVILION  
(NORTH/SOUTH)  
1/4" = 1'-0"



4 PAVILION FRAMING PLAN  
1/4" = 1'-0"



1 FLOOR PLAN - PAVILION  
1/4" = 1'-0"

Project Title:		TOM GREEN COUNTY PUGH PARK IMPROVEMENTS CHRISTOVAL, TEXAS		No. _____		Revisions and Descriptions		By _____		Date _____	
Drawing Title:		PLAN & ELEVATIONS - PAVILION		Copyright © 2018MRB Group		All Rights Reserved					
Drawn By:	CNC	Checked By:	RS	Scale:	As indicated	Date:	02/25/2020				
<b>MRB group</b> Engineering, Architecture & Surveying 5250 South 31st Street, Temple, Texas 76702 Phone: 254.771.2054 Corporate Office: The Culver Road Albany, 145 Culver Road, Suite 100, Rochester, New York 14620 11841 License Number E-10613 www.mrbgroup.com											
Sheet No. <b>A2.03</b> of _____											
Project No. <b>2054.19002</b>											







The image contains four architectural drawings of a toilet room, showing front, side, and sink views with dimensions.

**TOILET FRONT:** Shows the toilet fixture with dimensions: 36" GRAB BAR, 18" (17"-18" TO TLT.), 33"-36", and 18".

**TOILET SIDE:** Shows the toilet fixture with dimensions: 40" VERTICAL BAR, TYP., 18" MIN. VERT. BAR, TYP., 39" - 41", 33" - 36" T.O. GRAB BAR, TYP., 42" MIN., 12", 15" MIN. T.O. GRAB BAR, TYP., 1 1/2" MIN., 15" B.O. TISSUE, 8", 17" - 19" T.O. TOILET.

**SINK FRONT:** Shows the sink fixture with dimensions: 15", 38", 32" - 46", HAND DRYER, TYP., B.O. MIRROR, TYP., 17" - 19" T.O. TOILET.

**SINK SIDE:** Shows the sink fixture with dimensions: 60", 38", 34" MAX., 27" MIN., 9", 11", 6", MIN. MAX., 8" MIN.

**NOTES:**

- PROVIDE COVERINGS FOR ALL EXPOSED PIPING BELOW FIXTURES.
- ALL TOILET ROOM ACCESSORIES SHALL BE SELECTED BY OTHERS.
- FINAL LOCATIONS SHALL BE COORDINATED BETWEEN GC & OWNER.

[illegible]

Project Title:

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STRE

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**MRB** *group*

Engineering, Architecture &amp; Surveying

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TBPE Firm Number: F-10615

Sheet No.

## A4.01

Project No. \_\_\_\_\_

**2054.19002**

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1. GRAVITY LOADS
  - A. DESIGN UNIFORM LIVE LOADS ARE AS LISTED BELOW. LIVE LOAD REDUCTIONS ARE CALCULATED IN ACCORDANCE WITH THE BUILDING CODE.
  - B. DESIGN UNIFORM SUPERIMPOSED DEAD LOADS ARE IN ADDITION TO THE WEIGHT OF THE BUILDING STRUCTURE.
  - C. DESIGN CONCENTRATED LIVE LOADS ARE NOT COMBINED WITH UNIFORM LIVE LOADS.
  - D. MECHANICAL ROOMS ARE DESIGNED TO SUPPORT THE EQUIPMENT SHOWN ON THE MECHANICAL DRAWINGS AND SPECIFICATIONS. ANY MODIFICATIONS TO THE SIZE, WEIGHT, OR LOCATION OF EQUIPMENT SHOULD BE SUBMITTED FOR REVIEW OF LOADING PRIOR TO INSTALLATION OF EQUIPMENT.

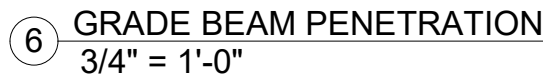
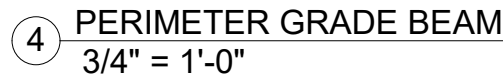
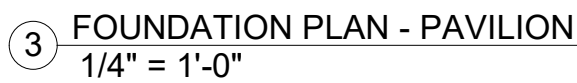
2. WIND LOADS  
A. IN ACCORDANCE WITH I.B.C., BASED ON A WIND SPEED OF 90 MPH AND EXPOSURE CLASS B.  
B. NET ROOF UPLIFT = 20 PSF TYPICAL  
C. = 30 PSF WITHIN 10'-0" OF EDGE OR STEP IN ROOF

3. SEISMIC LOADS  
A. IN ACCORDANCE WITH IBC, ZONE 0

1. THESE NOTES APPLY TO ALL FOUNDATIONS AND SLABS ON GRADE DETAILED ON THE STRUCTURAL DRAWINGS, UNLESS NOTED OTHERWISE.
2. FOUNDATION DESIGN IS BASED ON THE SOILS REPORT PREPARED BY XXX PROJECT NO. XXX DATED XXX.
3. SUBGRADE PREPARATION UNDER BUILDING SLAB ON GROUND:
  - A. REMOVE THE UPPERMOST 6" OF SOIL AND STOCKPILE FOR USE ONLY AS TOP SOIL FOR FINAL GRADING.
  - B. EXCAVATE A MIN. OF 4'-0" FOR PLACEMENT OF SELECT FILL.
  - C. PLACE A MINIMUM OF FOUR FEET OF SELECT FILL UNDER AND AROUND EACH BUILDING PAD. THE SELECT FILL SHALL BE LAYER LOCATIONS IN 8 INCH MAXIMUM LOOSE THICKNESS TO A DRY DENSITY OF NOT LESS THAN 95% OF STANDARD PROCTOR (ASTM D-938) MAXIMUM DRY DENSITY. THE SOIL MOISTURE AT TIME OF COMPACTION SHALL BE WITHIN 3% OF THE MATERIAL'S OPTIMUM MOISTURE CONTENT. PLACE SELECT FILL AS SOON AS POSSIBLE OVER SUBGRADE TO LIMIT MOISTURE LOSS WITHIN THE UNDERLYING SOILS.
  - D. SELECT FILL SHALL BE A UNIFORMLY BLENDED CLAYEY SAND HAVING A LIQUID LIMIT LESS THAN 30 AND A PLASTICITY INDEX (PI) BETWEEN 4 AND 15.
4. UNLESS SPECIFIED OTHERWISE VAPOR BARRIER SHALL CONSIST OF 8 MIL. POLYETHYLENE SHEET. TURN DOWN AT GRADE BEAMS AND PIERS. LAP AND SEAL AT ALL JOINTS AND AROUND ALL COLUMNS AND STUB-OUTS. PATCH ALL TEARS PRIOR TO PLACING CONCRETE.

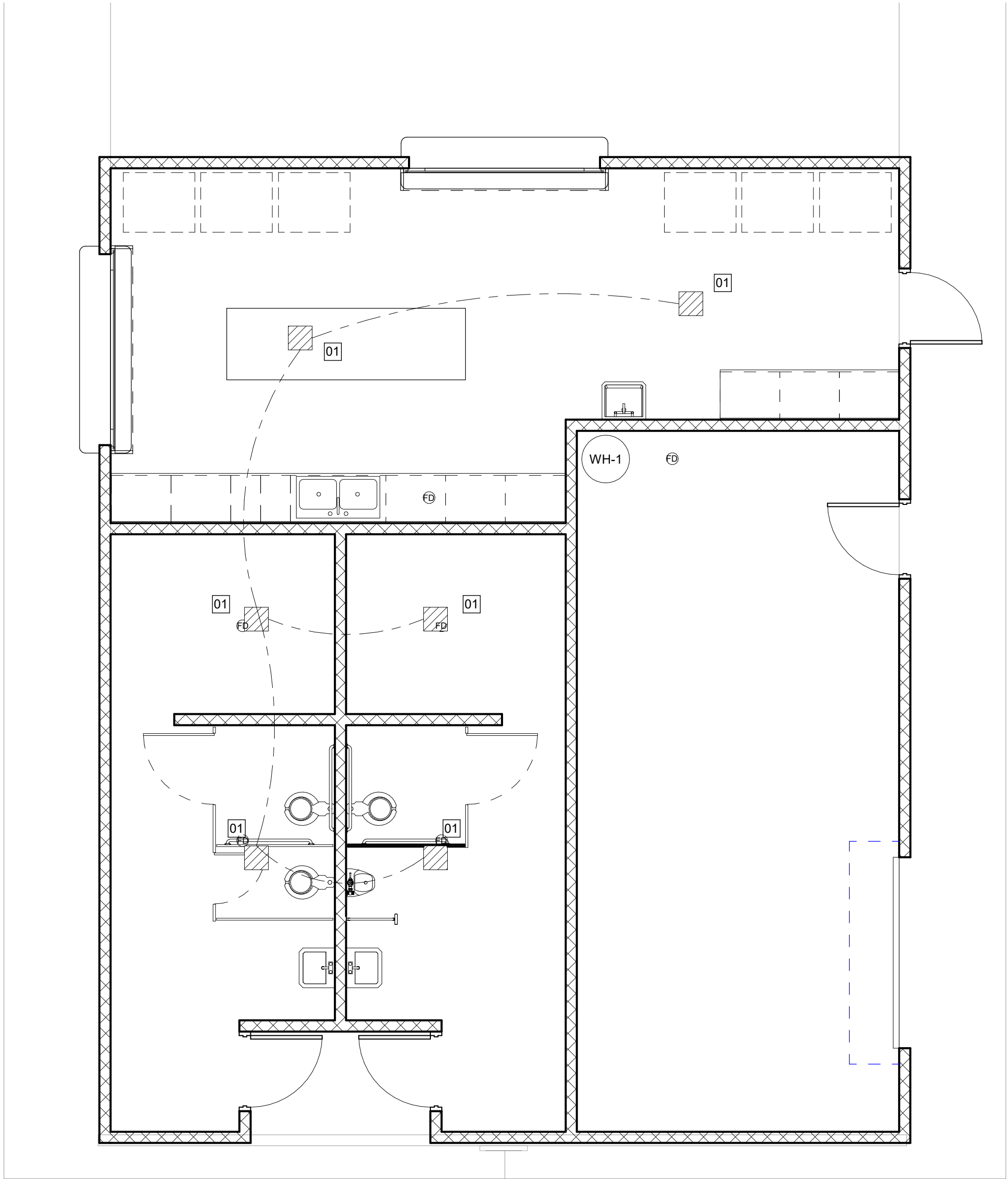
7. NO HORIZONTAL JOINTS WILL BE PERMITTED IN CONCRETE, EXCEPT WHERE THEY NORMALLY OCCUR OR WHERE NOTED. VERTICAL JOINTS SHALL OCCUR AT OR NEAR THE CENTER OF SPANS.

4. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THAT THE NEW STRUCTURE WILL NOT CONFLICT WITH ANY EXISTING UTILITIES. IF CONFLICTS ARISE, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND SHALL STOP THE WORK UNTIL AN APPROPRIATE SOLUTION TO THE CONFLICTS ARE FOUND, AND THE CONTRACTOR IS GIVEN WRITTEN AUTHORIZATION TO PROCEED WITH THE WORK.





1 MECHANICAL PLAN - CONCESSION  
1/4" = 1'-0"



KEYED MECHANICAL NOTES

01 FAN TO BE BROAN L300L IN LINE LOSONE FAN OR APPROVED EQUAL W/ 12X12 WHITE GRILL IN EACH RESTROOM

MECHANICAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD BUILDING CODE AND ALL LOCAL CODES.
- ALL AIR CONDITIONING SUPPLY AND RETURN DUCTWORK SHALL BE CONSTRUCTED OF 1" OR 1-1/2" THICK FIBERGLASS DUCTBOARD. DUCTWORK SHALL BE FABRICATED IN ACCORDANCE WITH ALL LOCAL COES, A.S.H.R.A.E., AND SMACNA STANDARDS. MINIMUM INSULATON VALUES AS FOLLOWS: IN ATTIC SPACES (R-6). BETWEEN FLOORS (R-4).
- ALL EXHAUST AND DRYER DUCTWORK SHALL BE CONSTRUCTED OF ZINC COATED GALVANIZED SHEET METAL CONSTRUCTED IN ACCORDANCE WITH LATEST A.S.H.R.A.E. GUIDE AND S.M.A.C.N.A. RECOMMENDATIONS OR TEE FIN METAL FLEXIBLE DUCTWORK.
- ALL REFRIGERANT PIPING SHALL BE TYPE 'L' COPPER, TOGETHER WITH WROUGHT COPPER, SOLDER FITTINGS. JOINTS SHALL BE MADE WITH SILVER SOLDER OR 'SILFOSS'. LINE SIES AND ACCESSORIES SHALL BE AS DESIGNED BY UNIT MANUFACTURER FOR THIS INSTALLATION.
- FLAME AND SMOKE RATING: ALL INSULATION PRODUCTS USED INSIDE THE BUILDING SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE GENERATION OF 50 IN ACCORDANCE WITH TESTS OUTLINED IN N.F.P.A. 225.
- VIBRATION ISOLATION: ALL EQUIPMENT AS PER MANUFACTURER'S RECOMMENDATIONS OR AS SCHEDULED ON DRAWINGS.
- FLEXIBLE DUCTWORK SHALL BE ROUND DUCTWORK REINFORCED WITH A WIRE HELIX AND INSULATED WITH 1-1/2" THICK (R-6) FIBERGLASS COVERED WITH A VAPOR BARIOR OF ALUMINUM METALIZED POLYESTER FILM LAMINATED TO GLASS MESH. CONNECTION TO DUCT MAINS SHALL BE MADE WITH FITTINGS PROVIDED WITH TWIST RINGS, BUTTERFLY DAMPERS, QUADRANT OPERATORS, EXTRACTOR AND INSULATION GUARD. DUCTWORK SHALL BE CLASS I, U.I. 181 'WIREMOLD' TYPE 'WK' OR APPROVED EQUAL.

Project Title:		TOM GREEN COUNTY PUGH PARK IMPROVEMENTS CHRISTOVAL, TEXAS		No.		Revisions and Descriptions		By		Date	
Drawing Title:		MECHANICAL		Copyright		© 2018MGB Group		All Rights Reserved			
Drawn By:	CNC	Checked By:	RS	Scale:	As indicated						
Date:		02/25/2020									
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Sheet No.		M1.01									
Project No.		2054.19002									







ELECTRICAL SYMBOL LEGEND

NOT ALL SYMBOLS SHOWN MAY BE USED

WIRING DEVICES

SYMBOL	DESCRIPTION
	2 POLE, 3 WIRE, 125V. SINGLE RECEPTACLE
	2 POLE, 3 WIRE, 125V. DUPLEX RECEPTACLE, MOUNT 18" AFF. UON
	2 POLE, 3 WIRE, 125V. DUPLEX ARC FAULT RECEPTACLE
	2 POLE, 3 WIRE, 125V. ISOLATED GROUND, ORANGE DUPLEX RECEPTACLE
	2 POLE, 3 WIRE, 125V. WEATHERPROOF DUPLEX RECEPTACLE
	2 POLE, 3 WIRE, 125V. QUADRUPLUX RECEPTACLE
	2 POLE, 3 WIRE, 125V. DEDICATED DUPLEX RECEPTACLE
	SINGLE RECEPTACLE: 50A, 250V, 1ø, HUBBELL #9367 NEMA 6-50R
	SINGLE RECEPTACLE: 50A, 120V, 1ø, HUBBELL #9360 NEMA 5-50R
	TWIST LOCK RECEPTACLE: 20A, 120V, 1ø, HUBBELL #2310 NEMA L5-20R
	TWIST LOCK RECEPTACLE: 20A, 120V, 1ø, HUBBELL #2310 NEMA L5-20R
	TWIST LOCK RECEPTACLE: 30A, 250V, 1ø, HUBBELL #2620 NEMA L6-30R
	TWIST LOCK RECEPTACLE: 20A, 250V, 1ø, HUBBELL #2320 NEMA L6-20R
	SPECIAL PURPOSE RECEPTACLE
	SINGLE FLOOR RECEPTACLE
	QUADRUPLUX FLOOR RECEPTACLE
	DUPLEX FLOOR RECEPTACLE
	POWER POLE OR TELEPOWER POLE

CONDUIT & WIRING

SYMBOL	DESCRIPTION
	HOME RUN W/HOT, NEUTRAL AND GROUND
	HOME RUN W/ 2 HOT AND GROUND
	HOME RUN W/ 3 HOT AND GROUND
	HOME RUN W/ 2 HOT, NEUTRAL AND GROUND
	HOME RUN W/ 3 HOT, NEUTRAL AND GROUND
	UNDERGROUND GROUND
	UNDERGROUND ELECTRIC
	OVERHEAD ELECTRIC
	UNDERGROUND TELEPHONE
	THERMAL WELD GROUND CONNECTION
	MECHANICAL GROUND CONNECTION

DISTRIBUTION & CONTROLS

SYMBOL	DESCRIPTION
	PANELBOARD
	TRANSFORMER
	DISCONNECT SWITCH (AMPERAGE/POLES/FUSE SIZE/NEMA)
	COMBINATION MAGNETIC STARTER (AMPERAGE/POLES/TRIP/STARTER SIZE/NEMA)
	MAGNETIC STARTER (AMPERAGE/POLES/TRIP/STARTER SIZE/NEMA)
	MOTOR RATED SWITCH WITH THERMAL OVERLOADS
	JUNCTION BOX
	JUNCTION BOX, 28VDC
	JUNCTION BOX, 400HZ
	PUSH-BUTTON
	EQUIPMENT CONNECTION
	PHOTO ELECTRIC CONTROL
	CONTACTOR
	TIME CLOCK
	MOTION DETECTOR, IR=INFRARED
	CONTROL PANEL
	POWER FACTOR CAPACITOR
	VARIABLE FREQUENCY DRIVE
	OCCUPANCY SENSOR

COMMUNICATIONS

SYMBOL	DESCRIPTION
	TELEPHONE OUTLET WALL MOUNTED
	TELEPHONE OUTLET FLOOR MOUNTED
	COMBINATION DATA AND TELEPHONE OUTLET
	DATA OUTLET WALL MOUNTED
	DATA OUTLET FLOOR MOUNTED
	SPEAKER CEILING MOUNTED
	SPEAKER WALL MOUNTED
	MICROPHONE
	MICROPHONE FLOOR OUTLET
	VOLUME CONTROL
	INTERCOM OUTLET
	TELEPHONE BACKBOARD

LIGHTING

SYMBOL	DESCRIPTION
	EXISTING 2X4 FIXTURE TO REMAIN AND BE RE-USED
	REMOVE AND RELOCATE 2X4 FIXTURE, REFER TO LIGHTING PLAN FOR RELOCATED FIXTURES
	NEW 2X4 LIGHTING FIXTURE
	RELOCATED 2X4 LIGHTING FIXTURE
	HATCH INDICATES NON SWITCHED/EMERGENCY BATTERY PACK FIXTURE.
	1X4 LIGHTING FIXTURE
	STRIP LIGHT
	SURFACE MOUNTED LIGHTING FIXTURE
	WALL MOUNTED LIGHTING FIXTURE
	RECESSED LIGHTING FIXTURE
	RECESSED WALL WASH LIGHTING FIXTURE
	EMERGENCY LIGHTING FIXTURE W/2 HEADS
	SINGLE FACE CEILING-MOUNTED EXIT SIGN
	SINGLE FACE WALL-MOUNTED EXIT SIGN
	DOUBLE-FACE CEILING-MOUNTED EXIT SIGN ARROWS AS INDICATED ON PLAN
	DOUBLE-FACE WALL-MOUNTED EXIT SIGN ARROWS AS INDICATED ON PLAN
	POLE MOUNTED SITE LIGHT
\$	SINGLE POLE, SINGLE THROW SWITCH, MOUNT 48" AFF. UON
\$2	DOUBLE POLE, SINGLE THROW SWITCH, MOUNT 48" AFF. UON
\$3	SINGLE POLE, DOUBLE THROW 3-WAY SWITCH, MOUNT 48" AFF. UON
\$4	DOUBLE POLE, DOUBLE THROW 4-WAY SWITCH, MOUNT 48" AFF. UON
\$FS	FAN SPEED CONTROL RHEOSTAT, MOUNT 48" AFF. UON
\$K	KEY OPERATED SWITCH, MOUNT 48" AFF. UON
\$P	SINGLE POLE, SINGLE THROW SWITCH W/PILOT LIGHT, MOUNT 48" AFF. UON
\$T	INTERVAL TIMER SWITCH, MOUNT 48" AFF. UON
\$D	DIMMER SWITCH, 6=600W, 10=1000W, 15=1500W, 20=2000W, MOUNT 48" AFF. UON
\$OS	OCCUPANCY SENSOR SWITCH, MOUNT 48" AFF. UON
\$LV	LOCAL ROOM CONTROL FOR DIMMING AND/OR LIGHTING CONTROL SYSTEM
LC	LIGHTING CONTACTOR

FIRE ALARM

SYMBOL	DESCRIPTION
	FIRE ALARM PULL STATION
	FIRE ALARM AUDIO/VISUAL
	FIRE ALARM VISUAL
	FIRE ALARM BELL AND FLASHING LIGHT
	FIRE ALARM AUDIO/VISUAL CEILING MOUNT
	FIRE ALARM HORN
	SMOKE DETECTOR
	DUCT SMOKE DETECTOR
	120V SMOKE DETECTOR
	HEAT DETECTOR
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR
	MAGNETIC DOOR HOLDER
	FIRE SMOKE DAMPER
	SPRINKLER SYSTEM WATER FLOW SWITCH
	SPRINKLER SYSTEM TAMPER SWITCH

SPECIAL SYSTEMS

SYMBOL	DESCRIPTION
	TELEVISION OUTLET
	TELEVISION FLOOR OUTLET
	CAMERA MONITOR OUTLET
	CLOCK WALL MOUNTED
	CLOCK RECEPTACLE
	MASTER CLOCK AND PROGRAM CONTROL OUTLET
	BELL
	BUZZER
	THERMOSTAT
	PRESET RECALL STATION
	ELECTROSTATIC DISCHARGE GROUND
	ELECTRONIC KEY PAD
	ELECTRONIC REMOTE DOOR BELL
	ELECTRONIC CARD READER
	CLOSED CIRCUIT SECURITY CAMERA
	MOTOR, 10 HORSEPOWER SHOWN
	DATA OUTLET FURNITURE WHIP
	JUNCTION BOX FURNITURE WHIP

ABBREVIATIONS

A	AMPERES OR TRIP AMPERES
ABV	ABOVE
AC	ALTERNATING CURRENT
ACT	ABOVE COUNTER TOP
A/C	AIR CONDITIONING
AE	AUSTIN ENERGY
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	SYMMETRICAL AMPS INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAGE
A/R	AS REQUIRED
BA	BALLAST
BD	BOARD
BLDG	BUILDING
C	CONDUIT
CAB	CABINET
CAP	CAPACITOR
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CL	CURRENT LIMITING
COA	CITY OF AUSTIN
CONN	CONNECT OR CONNECTION
CONT'D	CONTINUED
CONTR	CONTRACTOR
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
DBL	DOUBLE
DIM	DIMENSION
DISC SW	DISCONNECT SWITCH
EA	EACH
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ELEC	ELECTRICAL
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EQUIP	EQUIPMENT
EW	ELECTRIC WATER COOLER
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE CONDUIT
FIX	FIXTURE
GC	GENERAL CONTRACTOR
GALV	GALVANIZED
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HDG	HOT DIPPED GALVANIZED
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HT	HEIGHT
HTR	HEATER
HZ	HERTZ
IMC	INTERMEDIATE METAL CONDUIT
INST	INSTRUMENT
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILLS
KV	KILOVOLTS
KVA	KILOVOLT AMPERES
KW	KILOWATT
KWH	KILOWATT HOURS
LA	LIGHTNING ARRESTOR
L-L	LINE TO LINE
L-N	LINE TO NEUTRAL
LTG	LIGHT OR LIGHTING
MANUF	MANUFACTURER
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER

ABBREVIATIONS (CONT'D)

MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MCP	MINIMUM
MLO	MAIN LUGS ONLY
MSB	MAIN SWITCH BOARD
MTD	MOUNTED
MTG	MOUNTING
MRCT	MULTI-RATIO CURRENT TRANSFORMER
MV	MERCURY VAPOR
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEUT	NEUTRAL
NIC	NOT IN THIS CONTRACT
N.O.	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OH	OVERHEAD
OL	OVERLOAD
ø	PHASE
P	POLE
PA	PUBLIC ADDRESS
PC	PHOTOELECTRIC
PEN	PENDANT
PNL	PANELBOARD
PRV	PRESSURE REDUCING VALVE
PVC	POLYVINYL CHLORIDE
R	RELOCATED
RECP	RECEPTACLE
REQ'D	REQUIRED
REQ'MTS	REQUIREMENTS
RGC	RIGID GALVANIZED STEEL CONDUIT
RM	ROOM
RMC	RIGID METALLIC CONDUIT
ROW	RIGHT OF WAY
SCH	SCHEDULE
SE	SERVICE ENTRANCE
SH	SHEET
SM	SURFACE MOUNT
SN	SOLID NEUTRAL
SOV	SOLENOID OPERATED VALVE
SPACE	SPACE(S) ONLY (NO BREAKER OR DEVICE)
SPARE	SPARE BREAKER OR DEVICE
SPD	SURGE PROTECTIVE DEVICE
SPECS	CONTRACT SPECIFICATIONS
SS	STAINLESS STEEL HARDWARE
SWBD	SWITCHBOARD
SW	SWITCH
SWGR	SWITCH GEAR
TB	TELEPHONE BACKBOARD
TB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UG	UNDERGROUND ELECTRIC
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
UT	UNDERGROUND TELEPHONE
V	VOLTS
VA	VOLT AMPERES
W	WATTS
W	WITH
WH	WATER HEATER
WP	WEATHER PROOF
XFMR	TRANSFORMER
XFR SW	TRANSFER SWITCH
XMTR	TRANSMITTER
1/C	SINGLE CONDUCTOR CABLE
3/C	THREE CONDUCTOR CABLE USED WITH A NUMERAL, WHICH INDICATES HEIGHT OF ITEM AFF LEVEL
S.D.	BARE CU.
	SOFT DRAWN BARE COPPER

CONDUIT AND WIRING LEGEND

_____	NEW
---	EXISTING TO BE REMOVED
---	EXISTING TO REMAIN
----- UE	UNDERGROUND ELECTRICAL
----- UF	UNDERGROUND FIBER OPTIC
----- UT	UNDERGROUND TELEPHONE
----- UG	UNDERGROUND GROUNDING
----- OE	OVERHEAD ELECTRICAL

GENERAL ELECTRICAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, ALL CITY, COUNTY, AND STATE REGULATIONS, NFPA, ANSI, UL, IEEE, AND THE LOCAL CODE AUTHORITY HAVING JURISDICTION. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND INSPECTIONS.
- ALL ELECTRICIANS SHALL BE LICENSED BY THE APPROPRIATE CITY, STATE, OR LOCAL CODE AUTHORITY HAVING JURISDICTION.
- THE ELECTRICAL CONTRACTOR SHALL FOLLOW ALL OSHA AND OWNER SAFETY RULES AS REQUIRED TO WORK ON THIS SITE.
- ALL INSTALLATIONS SHALL BE DONE IN A NEAT AND WORKMAN LIKE MANNER.
- ALL POWER OUTAGES SHALL BE PERFORMED DURING NON-BUSINESS HOURS. COORDINATE ALL POWER OUTAGES WITH THE OWNER. NOTIFY THE OWNER IN WRITING 10 DAYS PRIOR TO SCHEDULING ANY POWER OUTAGES.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL TEMPORARY ELECTRICAL POWER AND LIGHTING REQUIRED FOR THIS PROJECT.
- THE DEMOLITION DRAWINGS (IF APPLICABLE) ARE DIAGRAMMATIC IN NATURE. THE ELECTRICAL CONTRACTOR SHALL BE THOROUGHLY FAMILIAR WITH THE PROJECT SCOPE OF WORK PRIOR TO SUBMITTING THEIR BID.
- THE ELECTRICAL CONTRACTOR SHALL VERIFY THE ELECTRICAL REQUIREMENTS OF ALL OWNER PROVIDED EQUIPMENT AND SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- ALL WORK SHOWN ON DRAWINGS IS NEW UNLESS OTHERWISE NOTED.
- ALL GROUNDING SHALL BE PER NEC AND LOCAL CODES.
- ALL ELECTRICAL CONSTRUCTION ON THE PROJECT SHALL CONFORM TO THE NEC AND ALL OTHER AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED AND PAY ALL FEES.
- ALL WIRING SHALL BE FREE OF SHORTS AND GROUNDS. NO CIRCUIT WIRING SHALL BE LOADED BEYOND THE PERMITTED AMPACITIES ALLOWED BY THE NEC. ALL WIRE SIZES ARE FOR COPPER.
- CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING BID.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND MATERIALS NECESSARY TO MAKE A COMPLETE AND WORKABLE JOB INCLUDING FINAL HOOK-UP OF ALL EQUIPMENT.
- FIRE STOP SHALL BE PROVIDED AT ALL LOCATIONS WHERE ELECTRICAL EQUIPMENT OR SYSTEMS PENETRATE FIRE RATED WALLS. SEE ARCHITECTURAL PLANS FOR RATED WALL LOCATIONS. CONTROL WIRING TO MECHANICAL EQUIPMENT IS NOT SHOWN ON THESE SHEETS.
- RISER AND ONE-LINE DIAGRAMS ARE MEANT TO SHOW ONLY VERTICAL AND ELECTRICAL RELATIONSHIPS AND THEREFORE MAY NOT INCLUDE ALL REQUIRED EQUIPMENT, DEVICES AND ACCESSORIES.
- EQUIPMENT INTERRUPTING CAPACITIES SPECIFIED IN THE CONTRACT DOCUMENTS ARE BASED UPON EQUIPMENT CHARACTERISTICS AND IMPEDANCES SHOWN ON THE DRAWINGS. IF ACTUAL INSTALLED EQUIPMENT DEVIATES FROM THESE CHARACTERISTICS OR HAS LOWER IMPEDANCES THE CONTRACTOR SHALL INCREASE THE INTERRUPTING CAPACITIES OF ALL ITEMS ON THE LOAD SIDE OF THE DEVIANT EQUIPMENT IN DIRECT PROPORTION TO THE CHANGED CHARACTERISTICS. INTERRUPTING CAPACITIES SHALL NOT BE REDUCED TO VALUES LESS THAN THOSE REQUIRED BY THE CONTRACT DOCUMENTS.
- EQUIPMENT SIZES ARE AS DESIGNED. CIRCUIT BREAKERS, CONDUIT, MOTOR STARTERS, DISCONNECT SWITCHES, PLUG-IN'S, ETC., SHALL BE ADJUSTED TO THE EQUIPMENT SUBMITTED AND APPROVED FOR INSTALLATION ON THIS PROJECT.
- REFER TO ARCHITECTURAL OR CIVIL DRAWINGS FOR SITE INFORMATION.
- LIGHT FIXTURE MOUNTING HEIGHTS ARE MEASURED BETWEEN THE FLOOR AND THE BOTTOM OF THE FIXTURE.

ELECTRICAL DRAWING INDEX

- E1.0 ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS
- E1.1 ELECTRICAL SPECIFICATIONS
- E2.0 ELECTRICAL OVERALL SITE PLAN
- E2.1 ELECTRICAL BASEBALL AND SOFTBALL FIELDS SITE PLAN
- E2.2 ELECTRICAL LITTLE LEAGUE FIELDS SITE PLAN
- E2.3 ELECTRICAL CONCESSION/RESTROOM/STORAGE BUILDING FLOOR PLAN
- E2.4 ELECTRICAL PAVILION AND RESTROOM PLANS
- E2.5 ELECTRICAL EQUIPMENT RACK PLANS
- E3.0 ELECTRICAL ONE-LINES
- E4.0 ELECTRICAL DETAILS
- E4.1 ELECTRICAL DETAILS
- E4.2 ELECTRICAL DETAILS
- E4.3 ELECTRICAL BASEBALL AND SOFTBALL LIGHT POLE DETAILS
- E4.4 ELECTRICAL LITTLE LEAGUE LIGHT POLE DETAILS
- E5.0 ELECTRICAL SCHEDULES
- E5.1 ELECTRICAL SCHEDULES
- E5.2 ELECTRICAL SCHEDULES



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SKE PROJECT # 2320220

Project Title:  
**TOM GREEN COUNTY  
PUGH PARK**

Drawn By: AH  
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1320220

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**E1.0**  
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Project No.  
**2054.18001**

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**ELECTRICAL NOTES,  
SYMBOLS & ABBREVIATIONS**

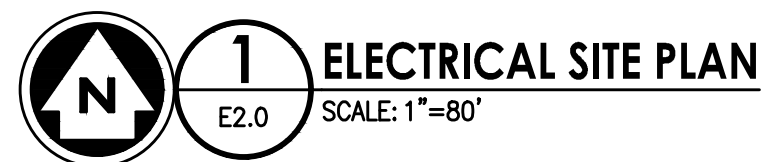








1 REFER TO SHEETS E2.1 AND E2.2 FOR DETAILED INFORMATION.



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20220

STATE OF TEXAS

THOMAS EDWARD VAUGHAN

135335

LICENSED

PROFESSIONAL ENGINEER

05-14-2020

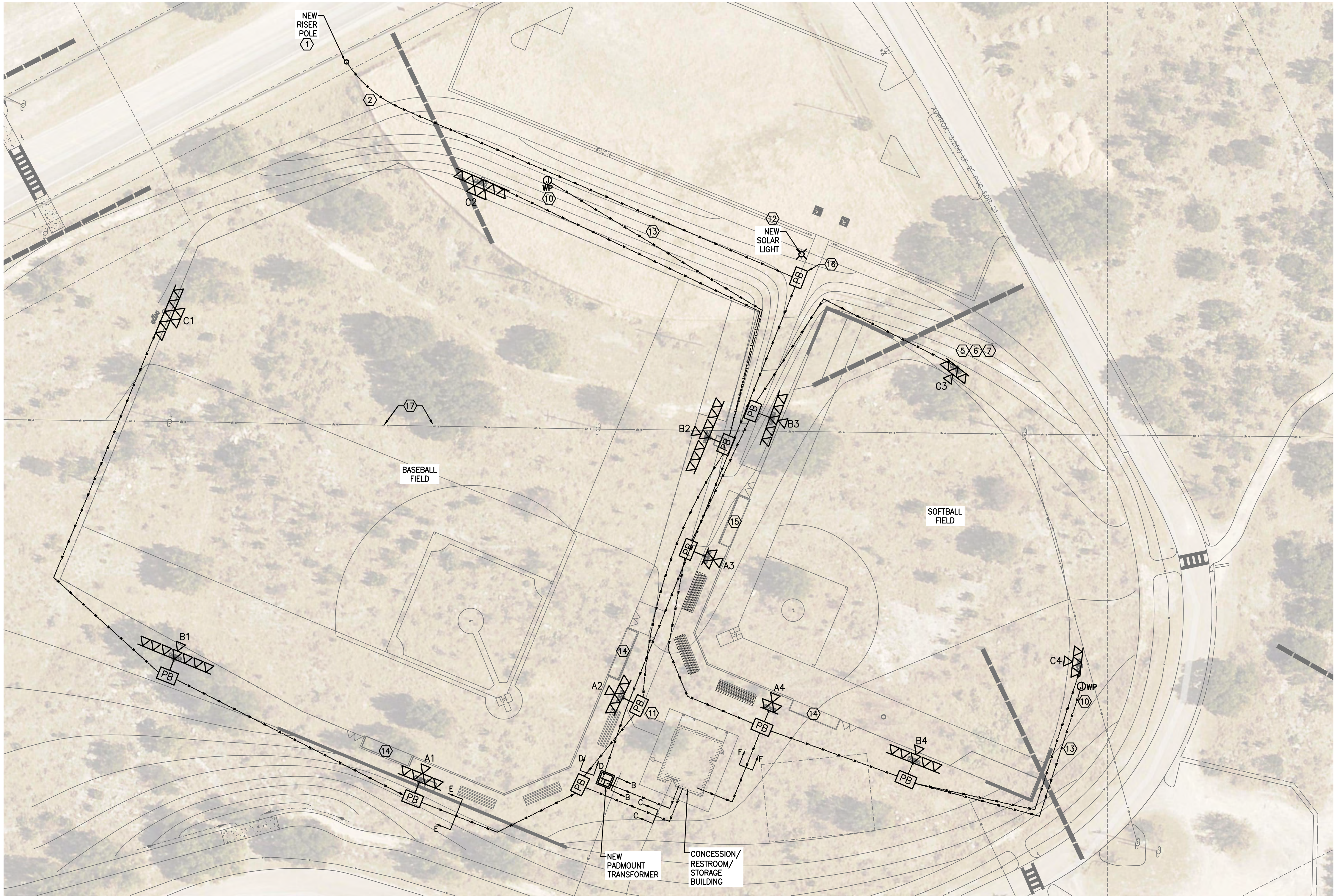
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**TOM GREEN COUNTY  
PUGH PARK**

Drawing Title:  
**ELECTRICAL OVERALL SITE PLAN**

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 **1** ELECTRICAL BASEBALL AND SOFTBALL FIELD PLAN   
E2.1 SCALE: 1"=40'

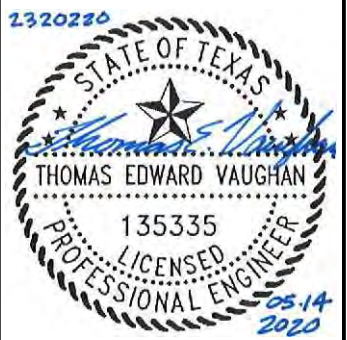
REFERENCE NOTES

- 1 NEW OVERHEAD ELECTRICAL SERVICE BY AEP. CONTACT STEVE MARCUM, (325) 657-2869 WITH AEP.
- 2 NEW PRIMARY CONDUITS AND WIRING PROVIDED AND INSTALLED BY AEP. ALL TRENCHING AND BACKFILL BY CONTRACTOR.
- 3 NEW CONCRETE TRANSFORMER PAD AND FENCING PROVIDED AND INSTALLED BY CONTRACTOR. INSTALL PER AEP SPECIFICATIONS. REFER TO DETAIL.
- 4 REFER TO SHEET E4.2 FOR TYPICAL TRENCH DETAILS.
- 5 TYPICAL POLE LIGHT PROVIDED AND INSTALLED BY CONTRACTOR.
- 6 CONTRACTOR SHALL PROVIDE AND INSTALL ALL DRILLING AND CONCRETE FOR THE POLE BASE. CONTRACTOR SHALL INSTALL THE CONCRETE PEDESTAL FOR THE POLE LIGHT. TYPICAL.
- 7 ALL RIGGING AND CRANE TO SET THE POLES SHALL BE BY CONTRACTOR. TYPICAL.
- 8 ALL TRENCHING AND BACKFILL BY CONTRACTOR. ALL SPOILS REMOVED FROM THE SITE BY CONTRACTOR. TYPICAL.
- 9 ALL BRANCH CIRCUIT CONDUIT AND WIRING FOR THE POLE LIGHTING PROVIDED AND INSTALLED BY CONTRACTOR. TYPICAL.
- 10 120 VOLT CIRCUIT AND CONTROL WIRING FOR SCOREBOARD. COORDINATE FINAL LOCATION WITH TOM GREEN COUNTY. TYPICAL. PROVIDE AND INSTALL NEMA 3R JUNCTION BOX, 8"x8"x6".
- 11 PROVIDE AND INSTALL NEW 13" X 24" ELECTRICAL PULL BOX, QUAZITE #PD1324BB26, AND COVER #PG1324CA00 WITH LOGO #17. REFER TO DETAIL 3/E4.0. COORDINATE EXACT LOCATION IN THE FIELD WITH TOM GREEN COUNTY PRIOR TO INSTALLATION. TYPICAL.
- 12 PROVIDE AND INSTALL NEW SOLAR LIGHTS PER SCHEDULE ON SHEET E5.0
- 13 1" PVC, 2#6 THWN, 1#10 GND, AND 1" PVC, 1 SHIELDED CONTROL CABLE. TYPICAL FOR ALL SCOREBOARDS. PROVIDED AND INSTALLED BY CONTRACTOR.
- 14 1" PVC, 2#10 THHN, 1#10 GND FOR 20A, 120V DUPLEX RECEPTACLE AT EACH DUGOUT. TYPICAL.
- 15 DUCTBANKS AND PULLBOXES ARE DRAWN FOR CLARITY. PULLBOXES SHOWN LARGER THAN ACTUAL SIZE. CONTRACTOR TO CONFIRM PROPOSED DUCTBANK PATHS WITH ENGINEER BEFORE CONSTRUCTION.
- 16 AEP PULLBOX, PER AEP REQUIREMENTS.
- 17 EXISTING OVERHEAD TO BE REMOVED BY AEP.



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TOM GREEN COUNTY  
PUGH PARK  
ELECTRICAL BASEBALL AND  
SOFTBALL FIELD PLAN



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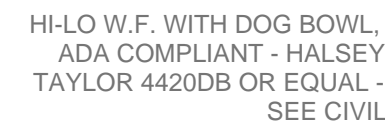
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of  
Project No.  
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SCALE:  $1/4" = 1'-0"$



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135335  
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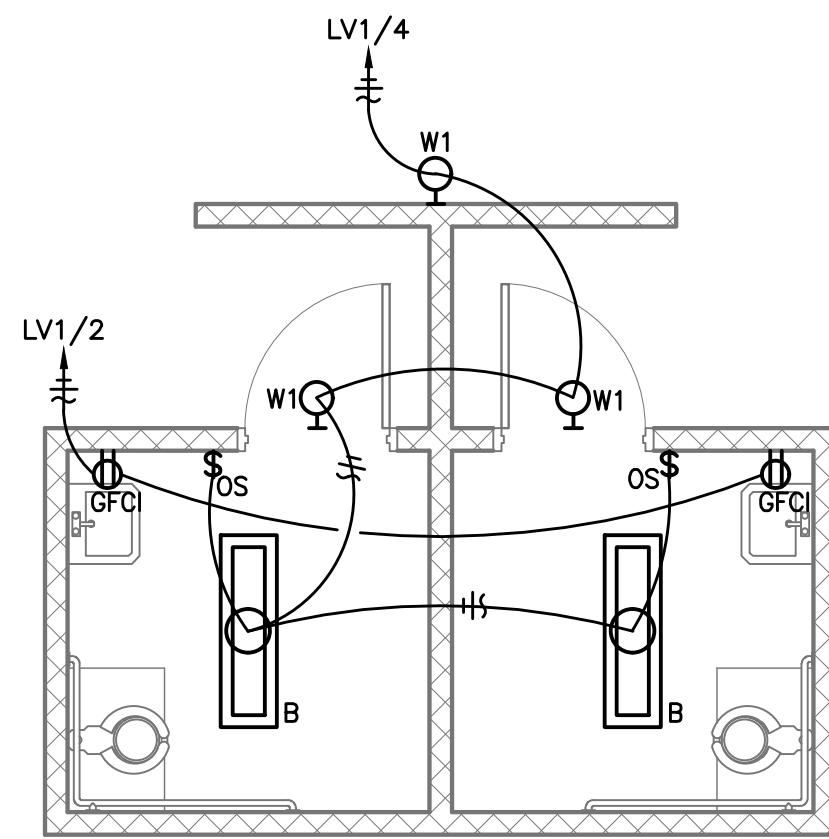
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**TOM GREEN COUNTY  
PUGH PARK**

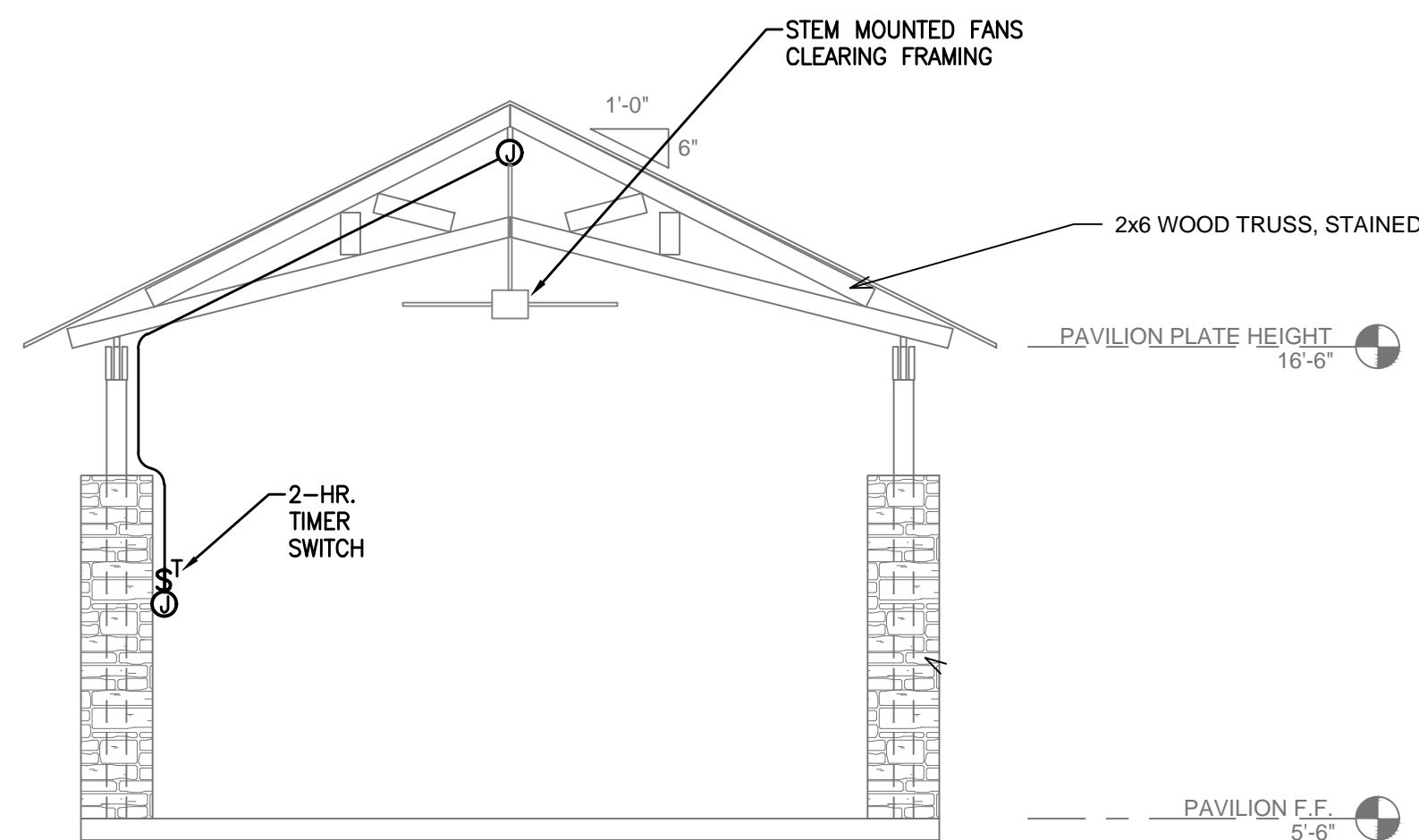
CONCESSION/RESTROOM/STORAGE  
BUILDING FLOOR PLAN

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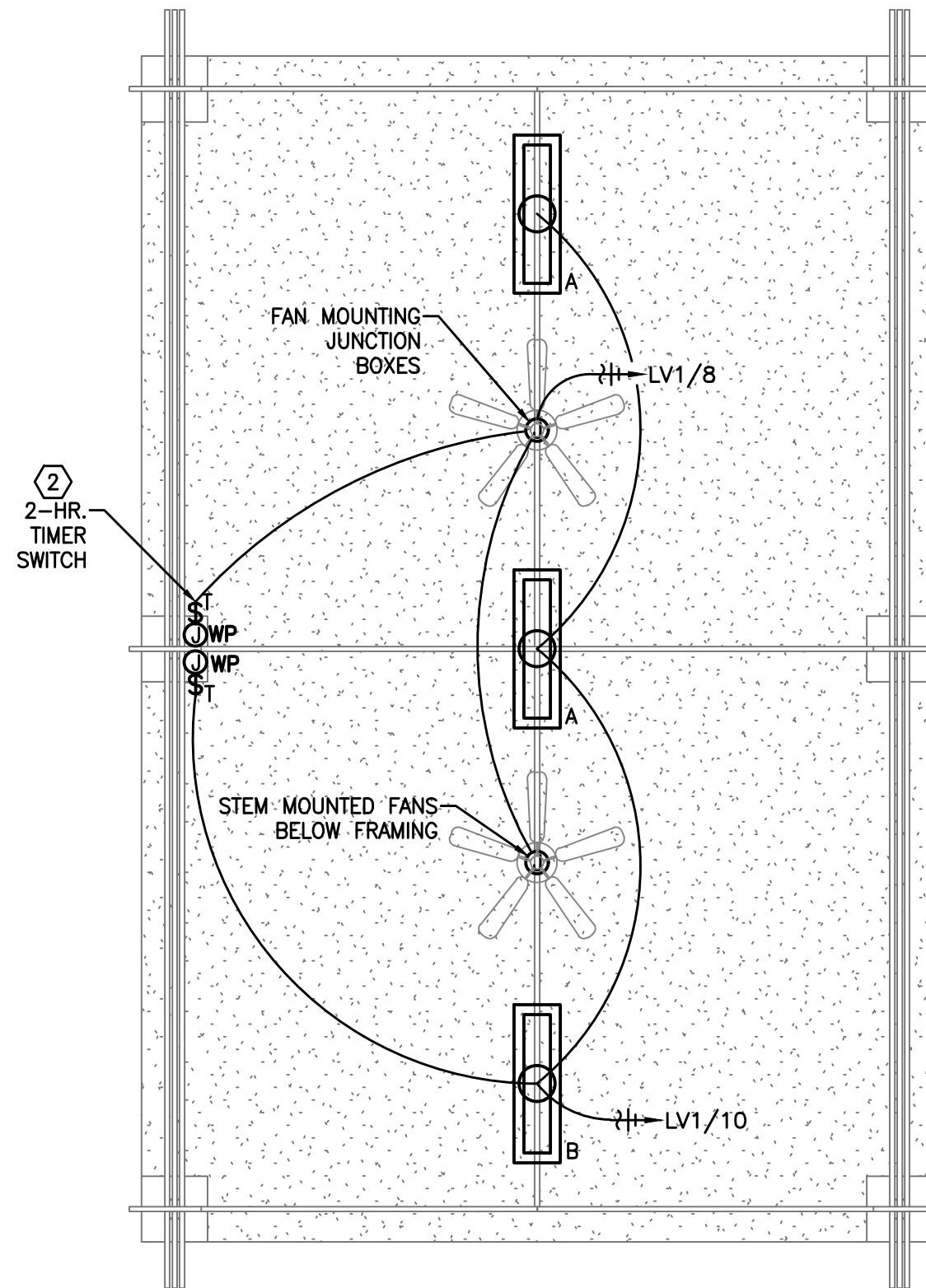





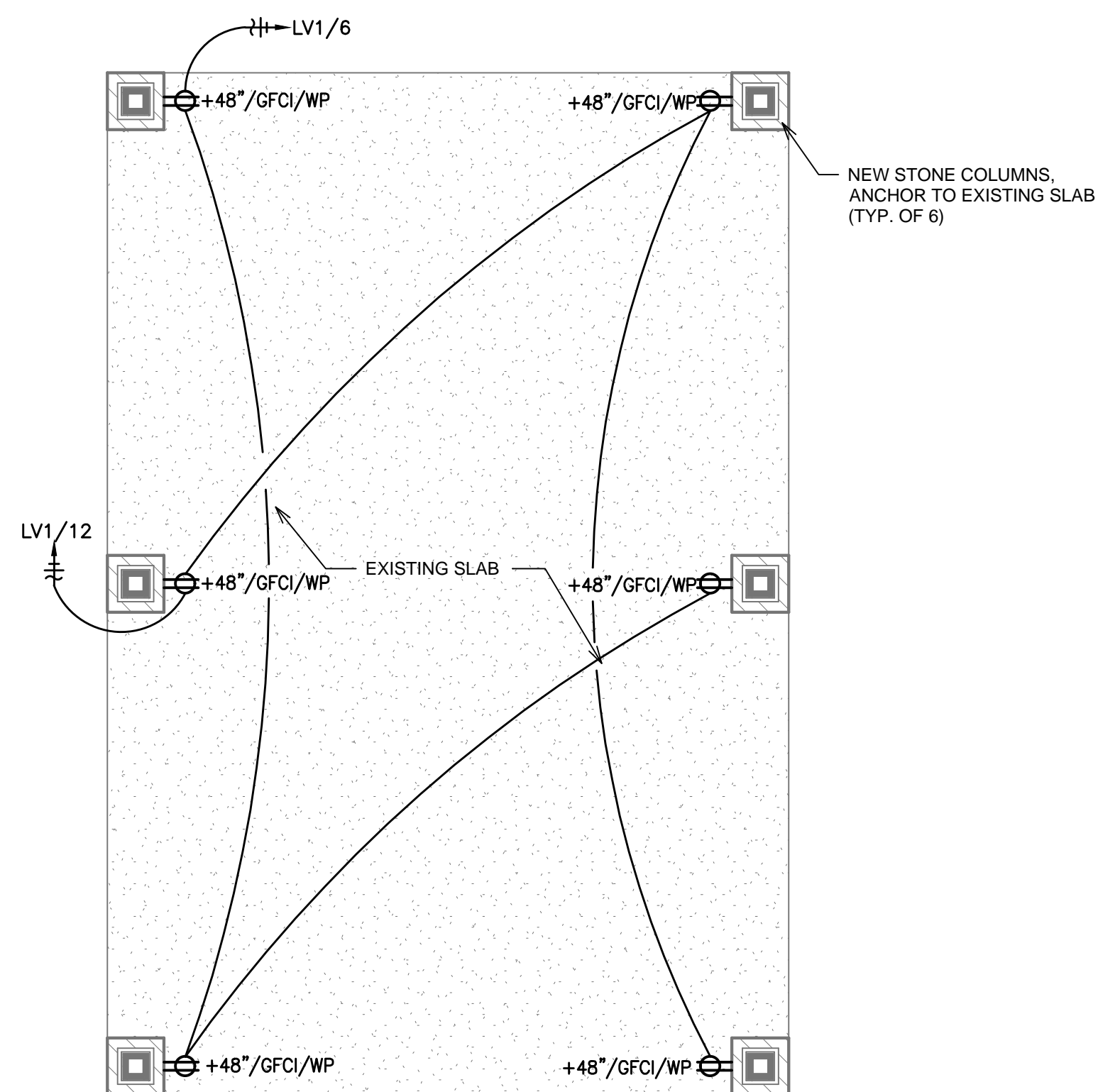
  **ELECTRICAL RESTROOM FLOOR PLAN**  
E2.4 SCALE: 1/4" = 1'-0"



**3 EXTERIOR ELEVATION - PAVILION (NORTH/SOUTH)**  
E2.4 SCALE: 1/4" = 1'-0"



 **2 PAVILION CEILING**  
E2.4 SCALE: 1/4" = 1'-0"



**1 PAVILION FLOOR PLAN**  
E2.4 SCALE: 1/4" = 1'-0"

## REFERENCE NOTES

- ① PROVIDE AND INSTALL WEATHER RATED FAN, MONTE CARLO 5CY60BK CYCLONE ENERGY STAR, 60" OUTDOOR CEILING FAN, 5 BLADES, MATTE BLACK OR EQUAL.
- ② PROVIDE AND INSTALL 2-HOUR MAX SET TIMER SWITCH CONTROLLING FAN. NSI C SERIES COMMERCIAL STYLE SPINNING WOUND AUTO OFF TIME SWITCH, SPST OR EQUAL.

**TOM GREEN COUNTY  
PUGH PARK**

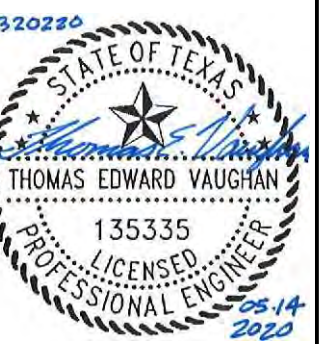
## ELECTRICAL PAVILION AND RESTROOM PLAN

ΔH  
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## E2.4

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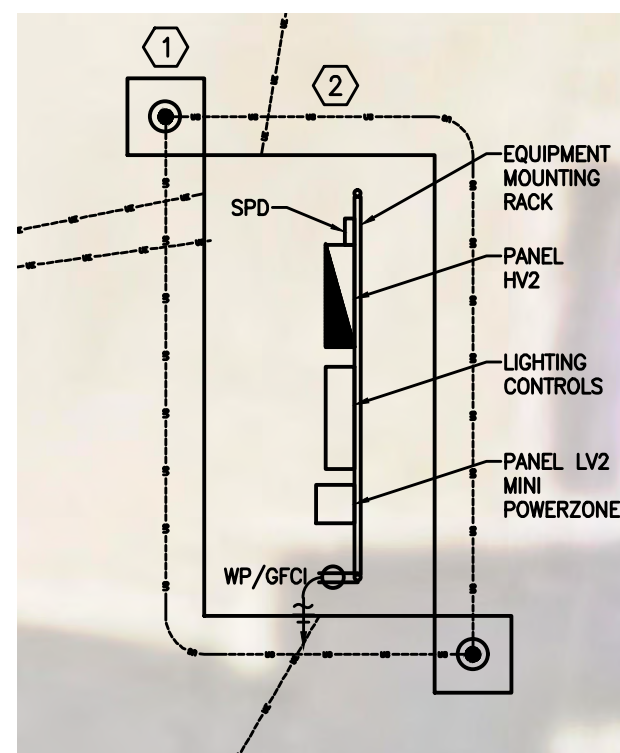
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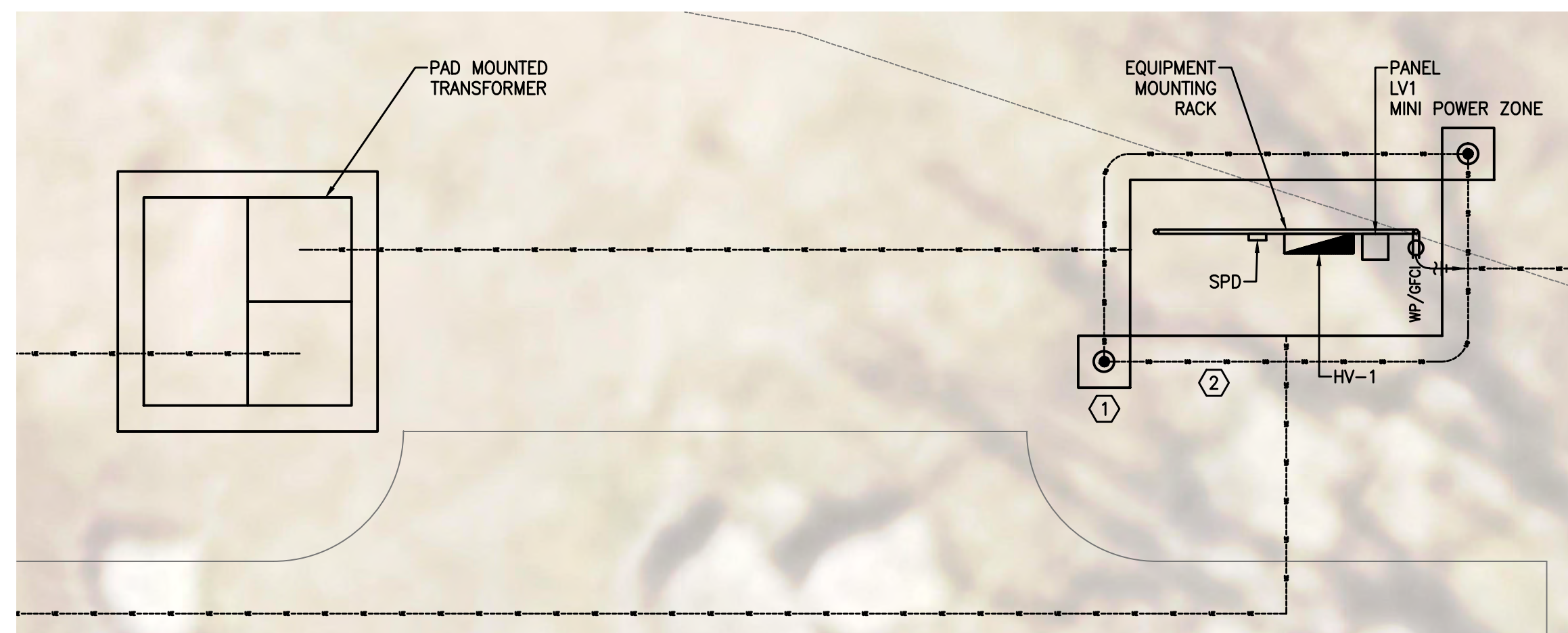
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**ELECTRICAL LITTLE LEAGUE FIELDS ENLARGED SITE PLAN (LIGHTING CONTROLS)**  
 SCALE: 1"=5'



 **1** ELECTRICAL LITTLE LEAGUE FIELDS ENLARGED SITE PLAN (SERVICE ENTRANCE)  
E2.5 SCALE: 1"=5'

## REFERENCE NOTES

- ① PROVIDE AND INSTALL GROUND RODS. REFER TO DETAIL 3/E4.1.
- ② PROVIDE AND INSTALL #3/0 BARE COPPER GROUNDING RING. BOND, EQUIPMENT RACKS TO GROUNDING ELECTRODE SYSTEM VIA EXOTHERMIC WELD.

**TOM GREEN COUNTY  
PUGH PARK**

**ELECTRICAL**  
**ENLARGED SITE PLANS**

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## E2.5

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The logo for SKE, featuring the letters 'S', 'K', and 'E' in a stylized, bold font. The 'K' is white and set against a black background, while the 'S' and 'E' are black.

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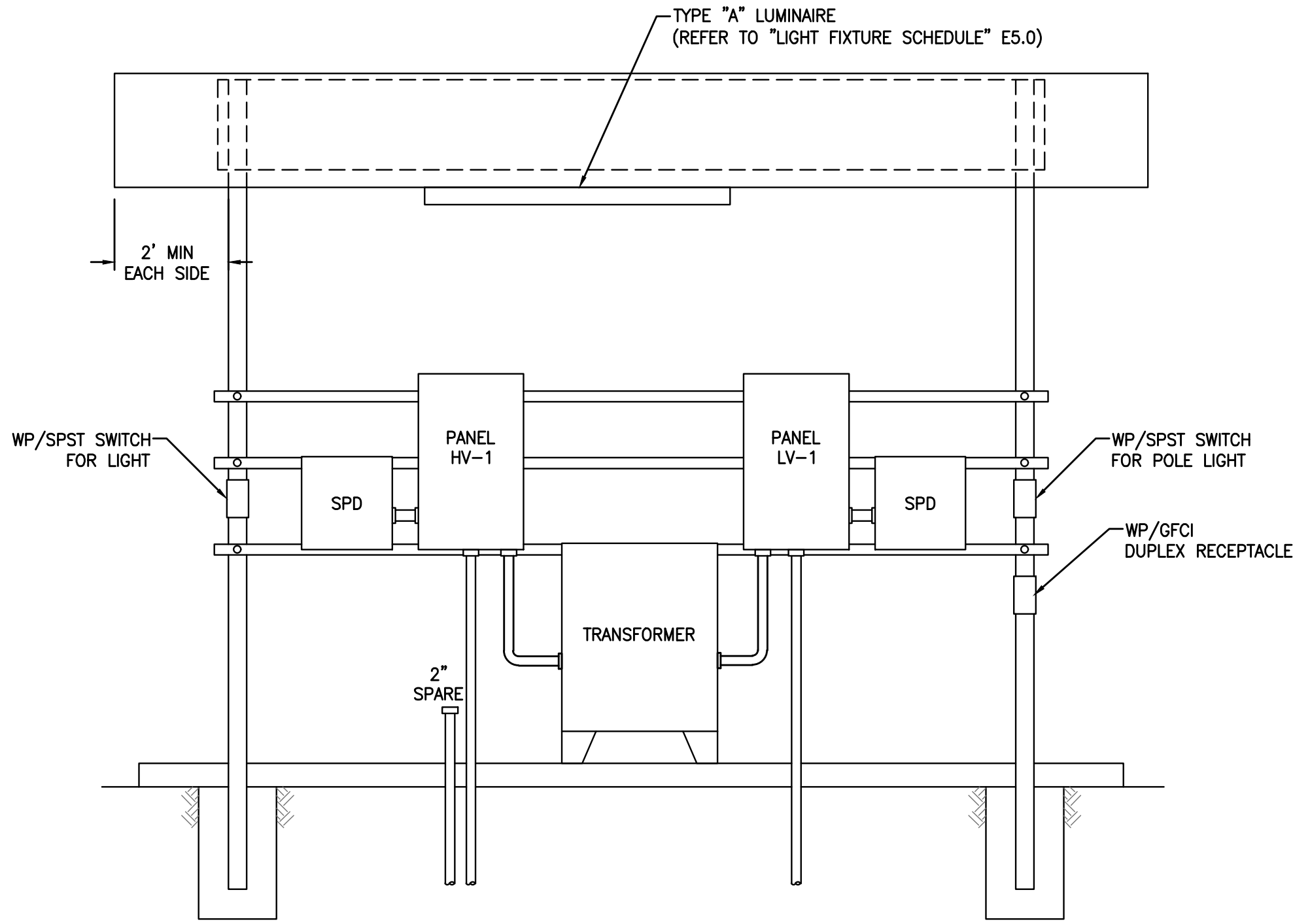




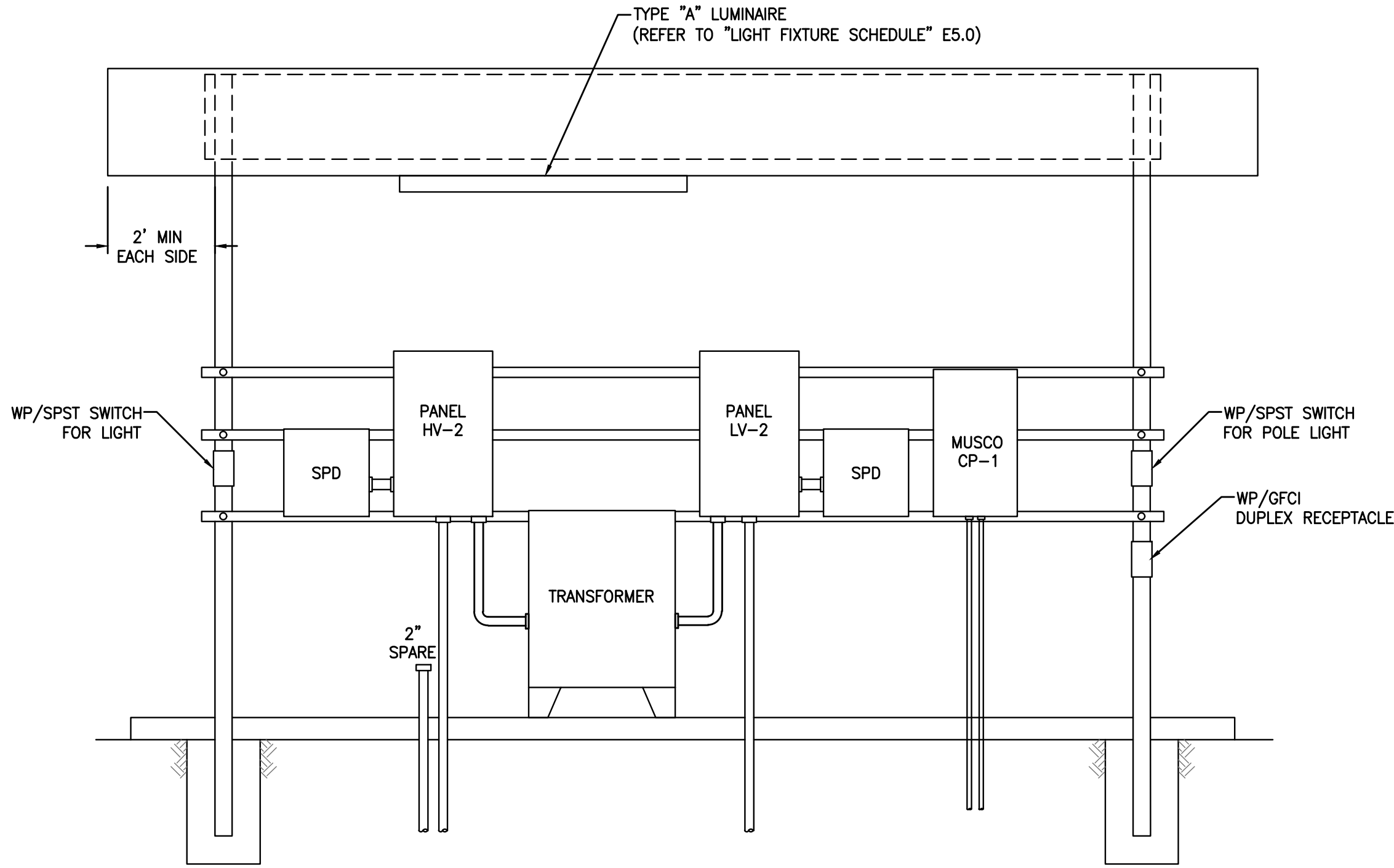
1	BASEBALL/SOFTBALL FIELDS ELECTRICAL EQUIPMENT IS LOCATED WITHIN THE STORAGE ROOM IN THE CONCESSIONS BUILDING.	8	PROVIDE AND INSTALL SPD, EATON SPD-050-208Y-3-K OR EQUAL IN A NEMA 4 ENCLOSURE.
2	LITTLE LEAGUE FIELDS ELECTRICAL EQUIPMENT IS RACK MOUNTED OUTDOORS.	9	PROVIDE AND INSTALL SPD, EATON SPD-050-208Y-3-N OR EQUAL IN A NEMA 4 ENCLOSURE.
3	COORDINATE INSTALLATION WITH AMERICAN ELECTRIC POWER (A.E.P) STEVE MARCUM, (325) 657-2869. NEW SERVICE SHALL BE INSTALLED PER A.E.P SPECIFICATIONS WWW.AEPTXAS.COM. PROVIDE 36" DITCH FROM NEW RISER POLE TO NEW PAD MOUNTED TRANSFORMER. AEP SHALL PROVIDE AND INSTALL NEW PRIMARY CONDUCTORS.	10	PROVIDE AND INSTALL NEW 15KVA TRANSFORMER, SQUARE D EE15T3HCU, OR EQUAL, COPPER WINDINGS, NEMA 3R WITH WEATHER SHIELD, 480V DELTA PRIMARY, 208Y/120V SECONDARY.
4	PROVIDE AND INSTALL PANELS. REFER TO PANEL SCHEDULES ON SHEETS E5.0 AND E5.1.	11	PROVIDE AND INSTALL NEW 30KVA TRANSFORMER, SQUARE D EE30T3HCU, OR EQUAL, COPPER WINDINGS, NEMA 3R WITH WEATHER SHIELD, 480V DELTA PRIMARY, 208Y/120V SECONDARY.
5	3/4" X 10' COPPER CLAD GROUND ROD.		
6	PROVIDE AND INSTALL SPD, EATON SPD-200-480Y-3-K OR EQUAL IN A NEMA 1 ENCLOSURE.		
7	PROVIDE AND INSTALL SPD, EATON SPD-050-240S-3-K OR EQUAL IN A NEMA 1 ENCLOSURE.		



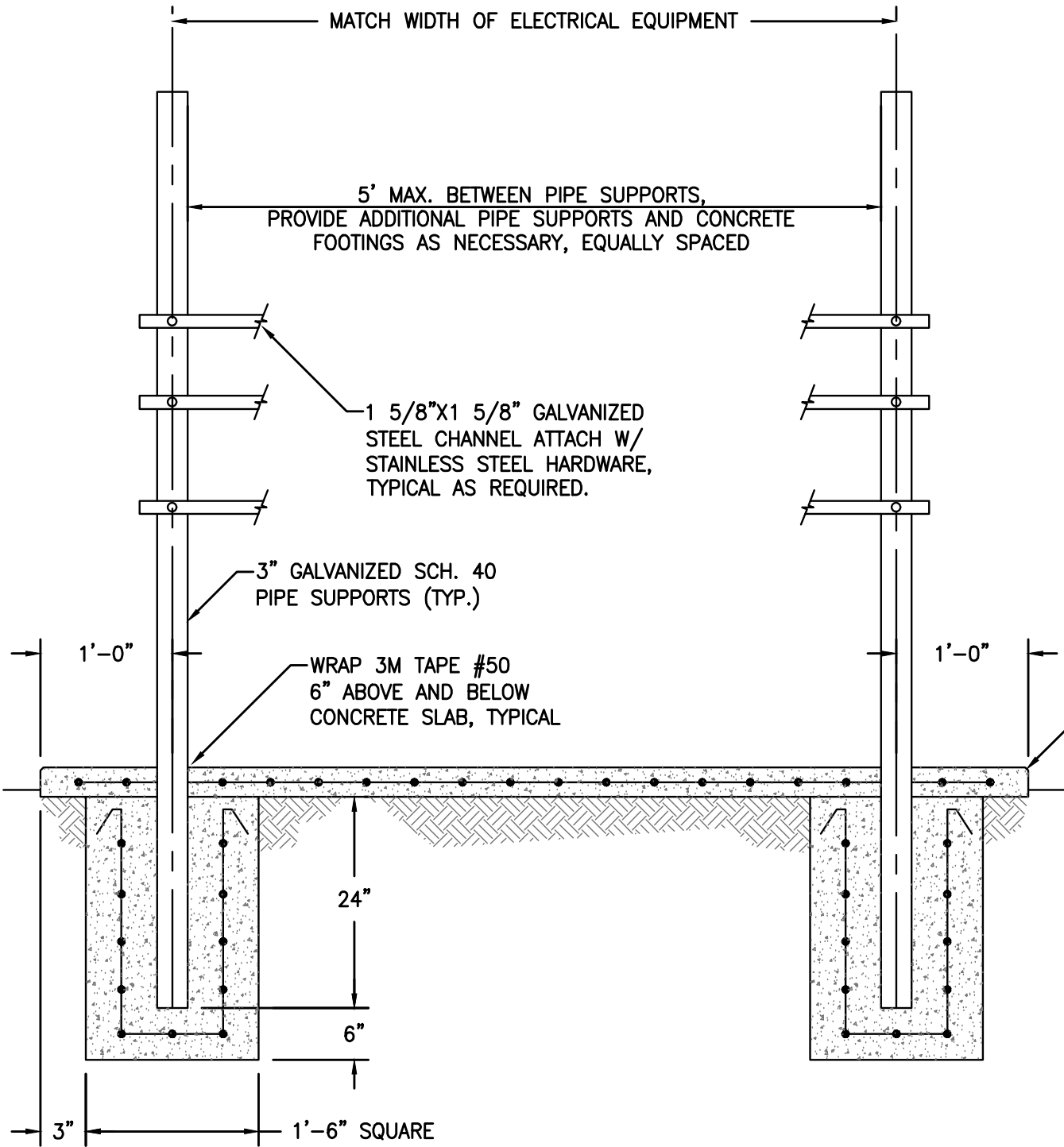
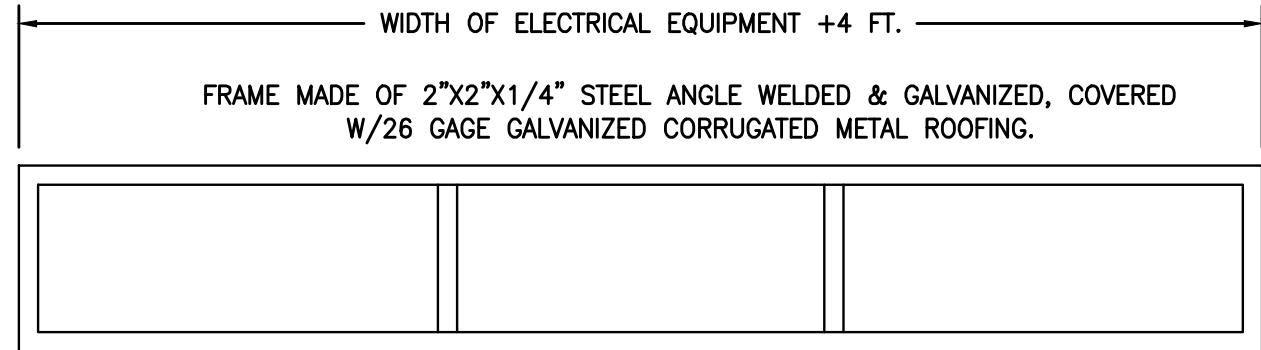




**4** DETAIL - ELECTRICAL EQUIPMENT INSTALLATION - SERVICE ENTRANCE AT LITTLE LEAGUE FIELD ①  
E4.0 SCALE: NTS



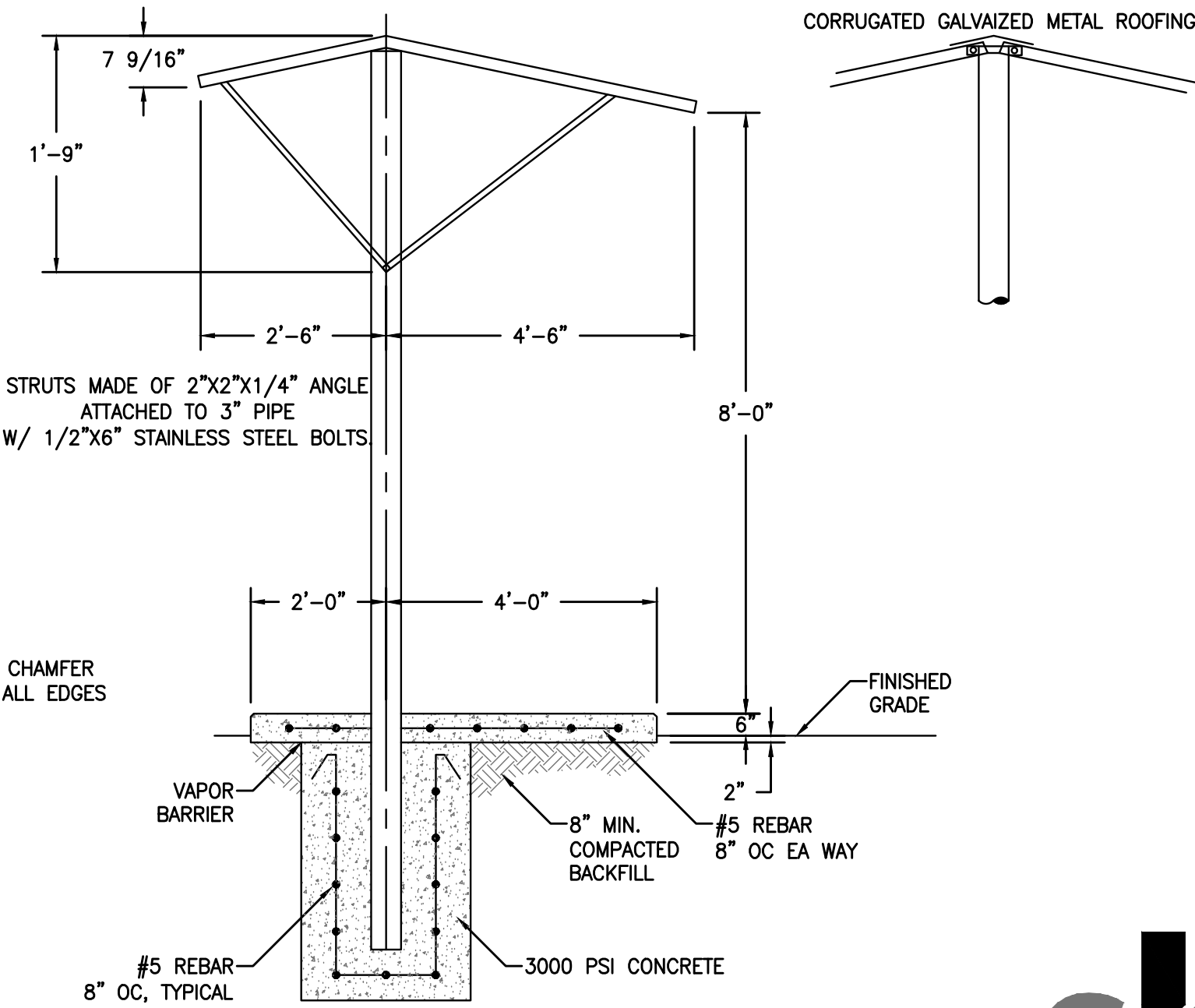
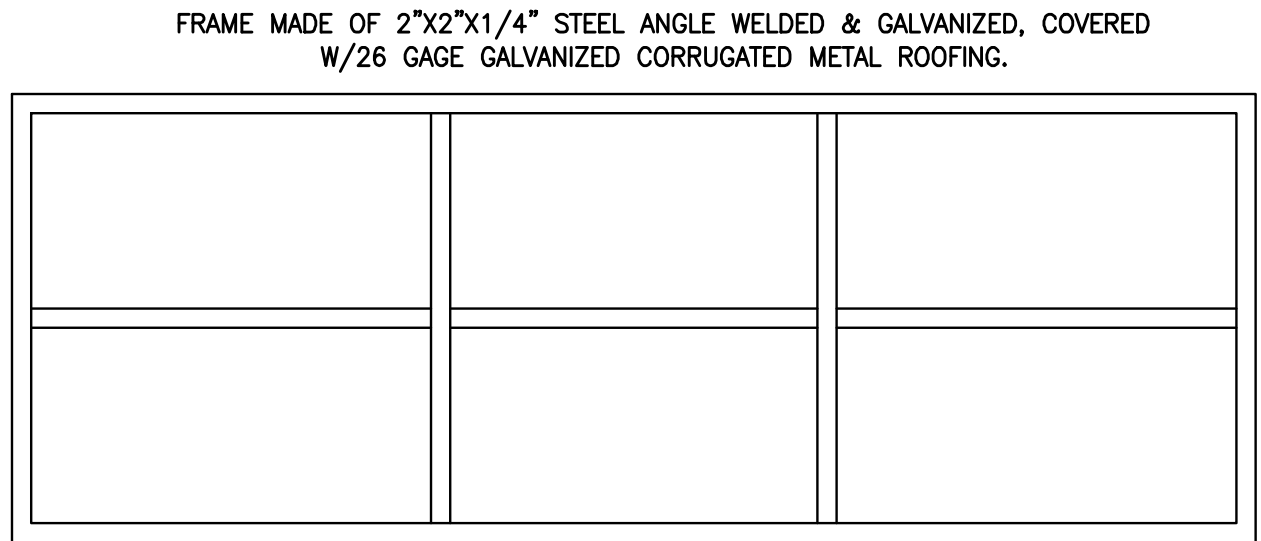
**4** DETAIL - ELECTRICAL EQUIPMENT INSTALLATION - LITTLE LEAGUE FIELD ①  
E4.0 SCALE: NTS



**1** DETAIL - TYPICAL RACK SUPPORT AND ROOFING  
E4.0 SCALE: NTS

## REFERENCE NOTES

① BOTTOM OF RACK MOUNTED EQUIPMENT SHALL BE 3'-0" AFG, MIN.

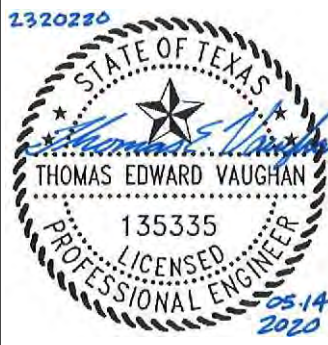


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TOM GREEN COUNTY  
PUGH PARK

ELECTRICAL DETAILS

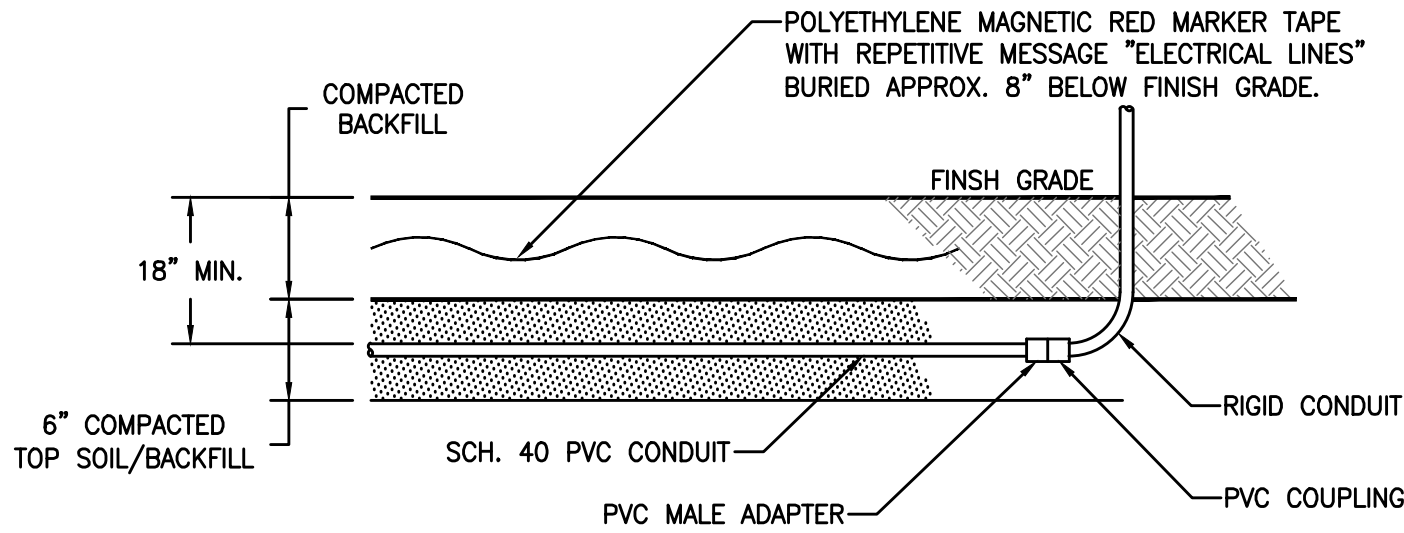
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Date: 05/14/2020



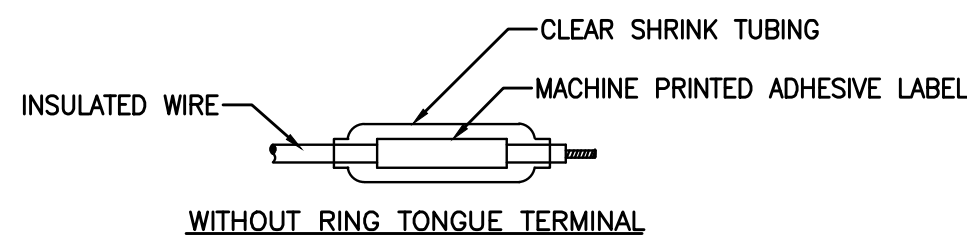
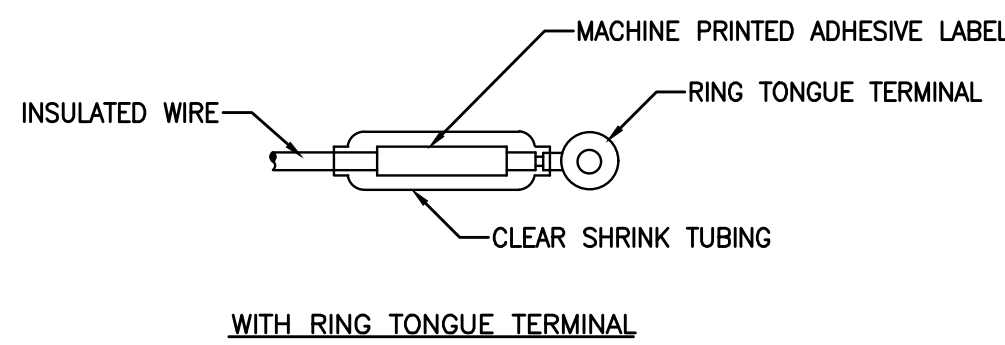
MRB group  
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8290 South 31st Street, Temple, Texas 76780 Phone: 254-771-2054  
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**E4.0**  
Project No.  
**2054.18001**



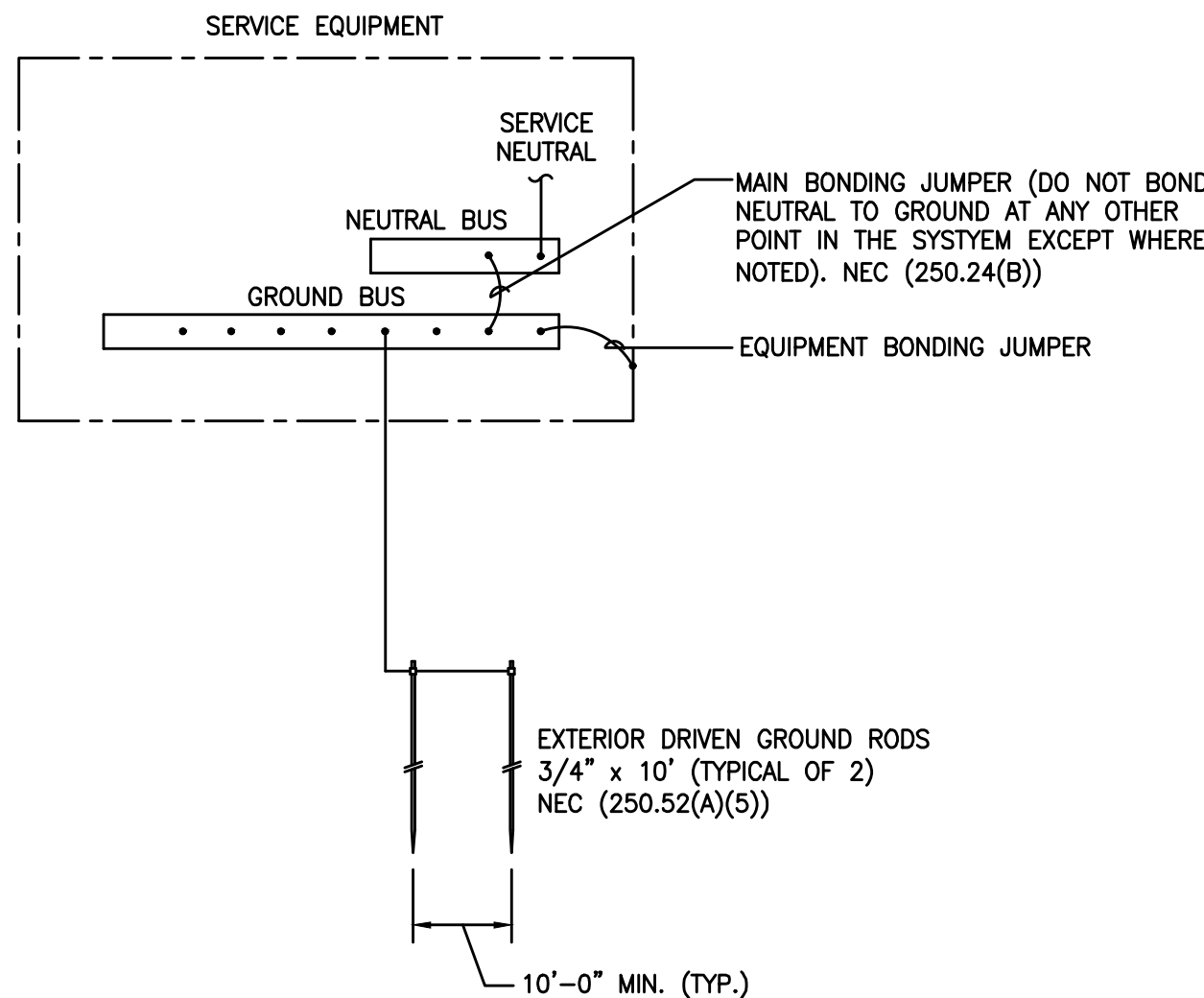


**6** **DETAIL - TYPICAL UNDERGROUND CONDUIT RUN**  
E4.1 SCALE: NTS

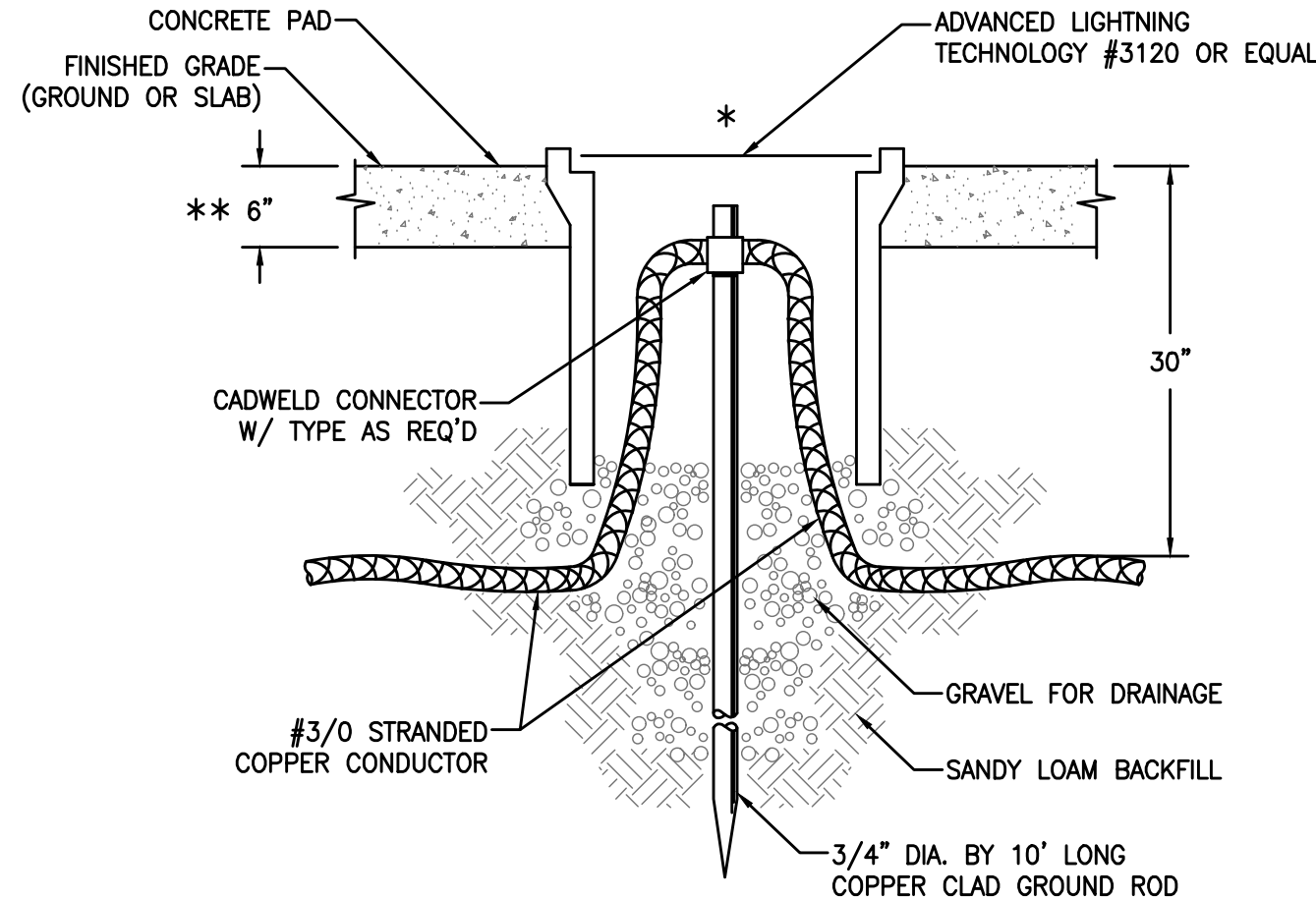


WHERE POSSIBLE RING TERMINALS SHALL BE USED. ONE OF THE ABOVE METHODS MUST BE USED ON ALL WIRE #8 AWG & SMALLER. THE SAME MUST ALSO BE USED ON LARGER WIRE UNLESS AN ALTERNATE METHOD IS SUBMITTED & APPROVED.

**5** **DETAIL - WIRE TERMINATION AND MARKING**  
E4.1 SCALE: NTS

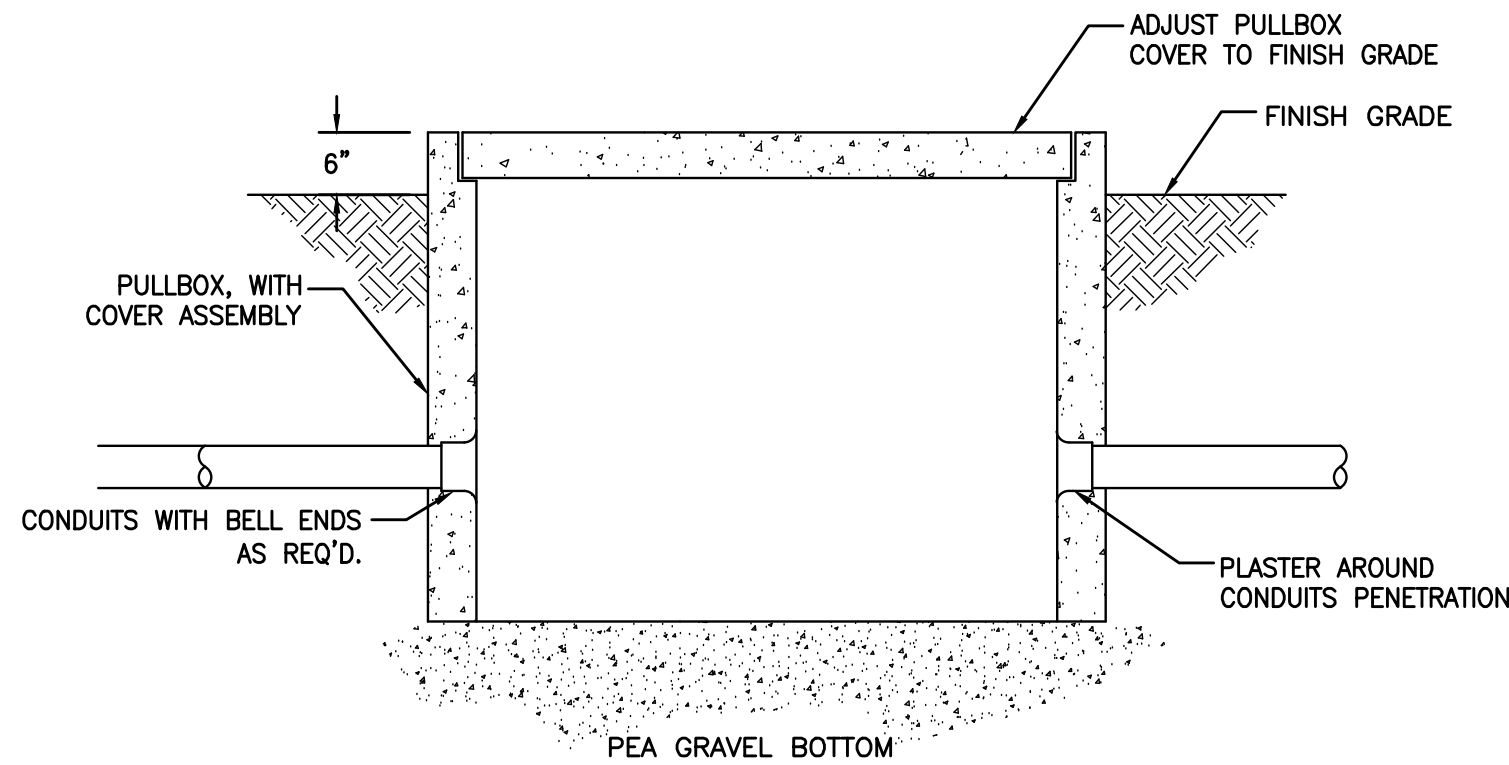


**4** **GROUNDING ELECTRODE SYSTEM (TYP.)**  
E4.1 SCALE: NTS



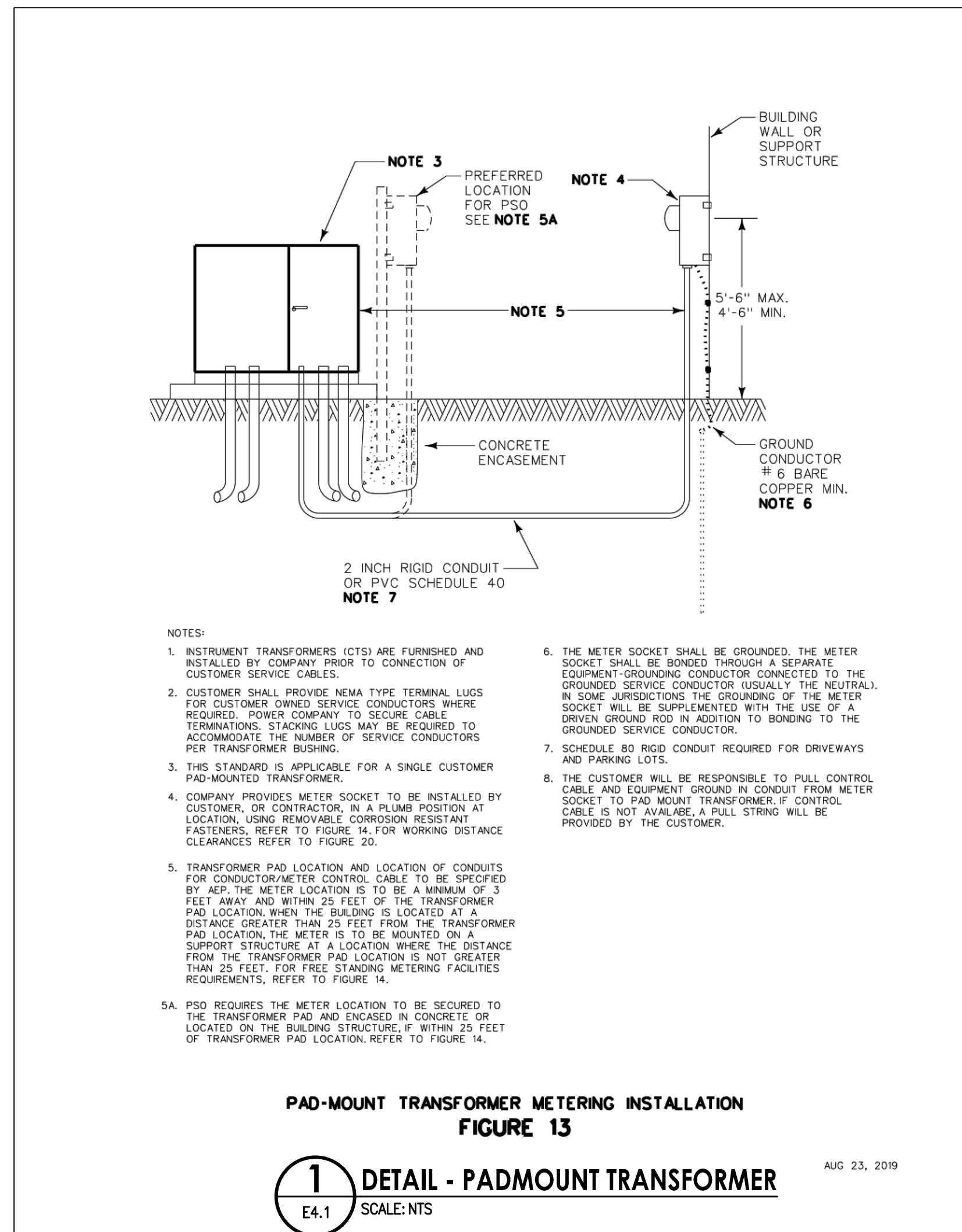
- \* INSTALL GROUND RODS AWAY FROM HEAVY TRAFFIC AREAS AND SIDEWALKS. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS.
- \*\* INSTALL 2'X2'X6" CONCRETE PAD.

**3** **DETAIL - 3/4" X 10' GROUND ROD**  
E4.1 SCALE: NTS



NOTE: ALL CONDUIT ENTERING PULLBOXES MUST DRAIN TO PULL BOXES

**2** **DETAIL - PULLBOX-POWER**  
E4.1 SCALE: NTS



**PAD-MOUNT TRANSFORMER METERING INSTALLATION**  
**FIGURE 13**

**1** **DETAIL - PADMOUNT TRANSFORMER**  
E4.1 SCALE: NTS

AUG 23, 2019



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Project Title: <b>TOM GREEN COUNTY PUGH PARK</b>				Drawing Title: <b>ELECTRICAL DETAILS</b>			
Drawn By: AH	Checked By: TV	Scale: PER TITLE	Date: 05/14/2020	No. Revisions and Descriptions By Date Copyright © 2020 MRB Group. All Rights Reserved.			
1320220				STATE OF TEXAS THOMAS EDWARD VAUGHAN 135335 LICENSED PROFESSIONAL ENGINEER 25-14-2020			
MRB group Engineering, Architecture & Surveying 8290 South 31st Street, Temple, Texas 76702 Phone: 254-771-2054 Corporate Office: The Culture Road Annex, 145 Culture Road, Suite 101, Rochester, New York 14620 TBPE Firm Number: F10615 www.mrbgroup.com				Sheet No. <b>E4.1</b> Project No. <b>2054.18001</b>			



UTILITY (POWER)

UTILITY (POWER)

2"

2"

2"

UTILITY (SPARE)

RESTROOM LIGHTS (INTERIOR) — PAVILION LIGHTS  
RESTROOM LIGHTS (EXTERIOR) — 1" — 1" — PAVILION FAN  
RESTROOM RECEPTACLE — 1" — PAVILION RECEPTACLE  
RESTROOM (SPARE) — 1" — 1" — PAVILION (SPARE)  
— 1" — PAVILION RECEPTACLE

FROM ELECTRICAL RACK (POWER) → 3" 3" ← FROM ELECTRICAL RACK (SPARE)

[illegible]

A5 → 1" → 4" ← IRRIGATION PUMP STATION

B5 → 1" → 1" ← DUGOUT RECEPTACLE

1" ← SPARE TO A5 PB

Diagram illustrating the 12-pin connector pinout:

- SCOREBOARD POWER** (Left side):
  - Pin 1: B6
  - Pin 2: FIELD#1 A6
  - Pin 3: FIELD#1 DUGOUT RECEPTACLE
- SCOREBOARD CONTROLS B7** (Right side):
  - Pin 4: SPARE TO A6 PB
  - Pin 5: FIELD#2 A6
  - Pin 6: SPARE TO A6 PB
  - Pin 7: FIELD#2 DUGOUT RECEPTACLE
  - Pin 8: SPARE TO A6 PB
  - Pin 9: FIELD#2 A6
  - Pin 10: SPARE TO A6 PB
  - Pin 11: FIELD#2 DUGOUT RECEPTACLE
  - Pin 12: SPARE TO A6 PB

UTILITY (POWER) → 4" ← 4" ← UTILITY (SPARE)

The diagram shows a rectangular box representing the Dugout Receptacle. Inside, there are two rows of terminals. The top row has terminals labeled C2, A2, and B2. The bottom row has terminals labeled 1", 1", 1", and 1". Wires connect the terminals as follows: C2 to the first 1" terminal; A2 to the second 1" terminal; B2 to the third 1" terminal; and the fourth 1" terminal to the B2 PB SPARE. Additionally, there are two external connections on the right: SCOREBOARD POWER connected to the second 1" terminal, and SCOREBOARD CONTROLS connected to the third 1" terminal.

Diagram illustrating the 12-pin connector pinout for the 1000 Series. The pins are labeled A3, B3, C3, A4, B4, and C4 on the left, and DUGOUT REC-TACLE, SCOREBOARD POWER, B3 PB SPARE, SCOREBOARD CONTROLS, B4 PB SPARE, and DUGOUT REC-TACLE on the right. The connections are as follows:

- A3 and B3 are connected to DUGOUT REC-TACLE.
- C3 is connected to SCOREBOARD POWER.
- A4 and B4 are connected to B3 PB SPARE.
- C4 is connected to SCOREBOARD CONTROLS.
- B4 is connected to B4 PB SPARE.
- C4 is connected to DUGOUT REC-TACLE.

Diagram illustrating the cross-section of a 4-inch square vault structure, showing the following components and dimensions:

- FINISHED GRADE**: The top surface of the vault.
- 12" MIN**: Minimum height of the vault structure above the finished grade.
- 18" MIN**: Minimum height of the vault structure below the finished grade.
- COMPACTED BACKFILL**: The material filling the vault above the concrete base.
- POLYETHYLENE MAGNETIC RED MARKER TAPE WITH REPETITIVE MESSAGE "ELECTRICAL LINES"**: A warning tape embedded in the backfill.
- CONDUIT (TYPICAL)**: A typical conduit passing through the vault.
- CONCRETE**: The base of the vault structure.
- #4 REBAR (CONTINUOUS)**: A continuous rebar around the perimeter of the vault.
- #3 STIRRUP 18" CENTERS**: Stirrups supporting the rebar at 18-inch centers.
- 3" (TYP.)**: Typical width of the vault structure.
- #3/0 BARE COPPER GROUND**: A ground wire connected to the vault structure.

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## PRELIMINARY FOUNDATION AND POLE ASSEMBLY DRAWING

POLE ID	POLE HEIGHT ft (m)	# OF LUMINAIRES	ASSEMBLED POLE WEIGHT lb (kg)
A1	60 (18.3)	2	873 (396)
A2	60 (18.3)	2	873 (396)
B1	60 (18.3)	5	1141 (518)
B2	60 (18.3)	5	1141 (518)
C1	60 (18.3)	5	1142 (518)
C2	60 (18.3)	5	1142 (518)
2-A1	70 (21.3)	5	1440 (653)
2-A2	70 (21.3)	5	1440 (653)
2-B1	80 (24.4)	7	3329 (1510)
2-B2	80 (24.4)	7	3329 (1510)
2-C1	70 (21.3)	8	2469 (1120)
2-C2	70 (21.3)	8	2469 (1120)

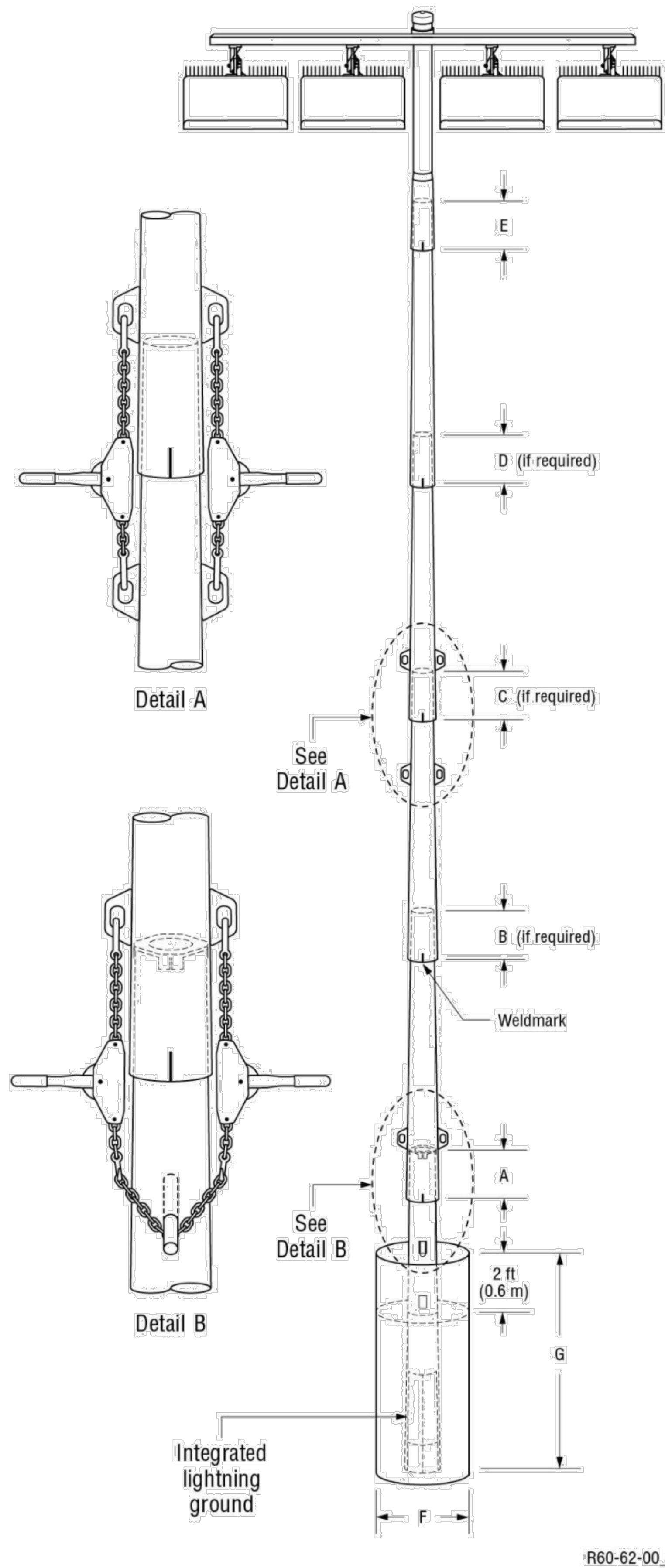
### Pole Assembly Notes:

1. Steel pole should overlap concrete base and be seated tight with 1 1/2 ton come-alongs (contractor provided).
2. Align weldmarks on steel sections before assembling.
3. Assembled pole weight includes steel sections, crossarms, luminaires, and electrical components enclosures.
4. Section overlap must be pulled together until tight. Overlap measurement should be +/- 6 in (150 mm).
5. This document is not intended for use as an assembly instruction. See *Installation Instructions: Light-Structure System™ Lighting System* for complete assembly procedure.

POLE ID	CONCRETE BASE WEIGHT lb (kg)	F in (mm)	BURIAL INFORMATION <sup>3,4</sup>		CUT BASE	LIGHTNING GROUND <sup>5</sup>	
			G ft (m)	CONCRETE BACKFILL <sup>1,2</sup> yd <sup>3</sup> ( m <sup>3</sup> )		TYPE	SUPPLEMENTAL INSTRUCTION
A1	1870 (848)	30 (762)	10 (3.0)	1.2 (0.9)	NO	INTEGRATED <sup>6</sup>	N/A
A2	1870 (848)	30 (762)	10 (3.0)	1.2 (0.9)	NO	INTEGRATED <sup>6</sup>	N/A
B1	1870 (848)	30 (762)	10 (3.0)	1.2 (0.9)	NO	INTEGRATED <sup>6</sup>	N/A
B2	1870 (848)	30 (762)	10 (3.0)	1.2 (0.9)	NO	INTEGRATED <sup>6</sup>	N/A
C1	1870 (848)	30 (762)	10 (3.0)	1.2 (0.9)	NO	INTEGRATED <sup>6</sup>	N/A
C2	1870 (848)	30 (762)	10 (3.0)	1.2 (0.9)	NO	INTEGRATED <sup>6</sup>	N/A
2-A1	1880 (853)	30 (762)	10 (3.0)	1.2 (0.9)	NO	INTEGRATED <sup>6</sup>	N/A
2-A2	1880 (853)	30 (762)	10 (3.0)	1.2 (0.9)	NO	INTEGRATED <sup>6</sup>	N/A
2-B1	5300 (2404)	30 (762)	16 (4.9)	1.6 (1.2)	NO	INTEGRATED <sup>6</sup>	N/A
2-B2	5300 (2404)	30 (762)	16 (4.9)	1.6 (1.2)	NO	INTEGRATED <sup>6</sup>	N/A
2-C1	3780 (1715)	30 (762)	14 (4.3)	1.6 (1.2)	NO	INTEGRATED <sup>6</sup>	N/A
2-C2	3780 (1715)	30 (762)	14 (4.3)	1.6 (1.2)	NO	INTEGRATED <sup>6</sup>	N/A

Foundation Notes:

1. Concrete backfill is calculated to 2 ft (0.6m) below grade (no overage included). Top 2 ft (0.6m) to be class 5 soil compacted to 95% density of surrounding undisturbed soil unless otherwise specified in stamped structural design.
2. Concrete backfill required 3000 lb/in<sup>2</sup> (20 MPa) minimum.
3. Foundation design per 2012 IBC, 115 mph, exposure category C, variation STD (Risk Category II).
4. Assumes IBC class 5 soils.
5. Standard bases include integrated lightning protection. If bases are cut, supplemental lightning protection is required. Contact Musco for materials and instruction.
6. Lightning protection is a manufacturer installed concrete encased electrode and connector. Ground connection is made when concrete base is installed and footing is poured. No additional steps required.



R60-62-00\_A

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The logo for SKE, featuring the letters 'S', 'K', and 'E' in a stylized, bold font. The 'K' is white and set against a black background, while the 'S' and 'E' are black.

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SKE PROJECT # 2320220

Pugh Park Baseball &amp; Softball - Christoval, TX, USA

Date: 05/18/2020

Rep: Tim Oordt

Project: 198435

**Scale:** N/A

Page: 1 of 1

### Preliminary

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SKE PROJECT # 2320220

**TOM GREEN COUNTY  
PUGH PARK**

**TOM GREEN COUNTY  
PUGH PARK**

Title: **ELECTRICAL BASEBALL/  
SOFTBALL LIGHT POLE DETAILS**

David D. Y.

Checked By:

<p>             1. <b>NAME</b>              2. <b>DATE</b>              3. <b>TIME</b>              4. <b>LOCATION</b>              5. <b>REMARKS</b>              6. <b>INITIALS</b>              7. <b>SIGNATURE</b>              8. <b>DATE</b>              9. <b>TIME</b>              10. <b>LOCATION</b>              11. <b>REMARKS</b>              12. <b>INITIALS</b>              13. <b>SIGNATURE</b>              14. <b>DATE</b>              15. <b>TIME</b>              16. <b>LOCATION</b>              17. <b>REMARKS</b>              18. <b>INITIALS</b>              19. <b>SIGNATURE</b>              20. <b>DATE</b>              21. <b>TIME</b>              22. <b>LOCATION</b>              23. <b>REMARKS</b>              24. <b>INITIALS</b>              25. <b>SIGNATURE</b>              26. <b>DATE</b>              27. <b>TIME</b>              28. <b>LOCATION</b>              29. <b>REMARKS</b>              30. <b>INITIALS</b>              31. <b>SIGNATURE</b>              32. <b>DATE</b>              33. <b>TIME</b>              34. <b>LOCATION</b>              35. <b>REMARKS</b>              36. <b>INITIALS</b>              37. <b>SIGNATURE</b>              38. <b>DATE</b>              39. <b>TIME</b>              40. <b>LOCATION</b>              41. <b>REMARKS</b>              42. <b>INITIALS</b>              43. <b>SIGNATURE</b>              44. <b>DATE</b>              45. <b>TIME</b>              46. <b>LOCATION</b>              47. <b>REMARKS</b>              48. <b>INITIALS</b>              49. <b>SIGNATURE</b>              50. <b>DATE</b>              51. <b>TIME</b>              52. <b>LOCATION</b>              53. <b>REMARKS</b>              54. <b>INITIALS</b>              55. <b>SIGNATURE</b>              56. <b>DATE</b>              57. <b>TIME</b>              58. <b>LOCATION</b>              59. <b>REMARKS</b>              60. <b>INITIALS</b>              61. <b>SIGNATURE</b>              62. <b>DATE</b>              63. <b>TIME</b>              64. <b>LOCATION</b>              65. <b>REMARKS</b>              66. <b>INITIALS</b>              67. <b>SIGNATURE</b>              68. <b>DATE</b>              69. <b>TIME</b>              70. <b>LOCATION</b>              71. <b>REMARKS</b>              72. <b>INITIALS</b>              73. <b>SIGNATURE</b>              74. <b>DATE</b>              75. <b>TIME</b>              76. <b>LOCATION</b>              77. <b>REMARKS</b>              78. <b>INITIALS</b>              79. <b>SIGNATURE</b>              80. <b>DATE</b>              81. <b>TIME</b>              82. <b>LOCATION</b>              83. <b>REMARKS</b>              84. <b>INITIALS</b>              85. <b>SIGNATURE</b>              86. <b>DATE</b>              87. <b>TIME</b>              88. <b>LOCATION</b>              89. <b>REMARKS</b>              90. <b>INITIALS</b>              91. <b>SIGNATURE</b>              92. <b>DATE</b>              93. <b>TIME</b>              94. <b>LOCATION</b>              95. <b>REMARKS</b>              96. <b>INITIALS</b>              97. <b>SIGNATURE</b>              98. <b>DATE</b>              99. <b>TIME</b>              100. <b>LOCATION</b>              101. <b>REMARKS</b>              102. <b>INITIALS</b>              103. <b>SIGNATURE</b>              104. <b>DATE</b>              105. <b>TIME</b>              106. <b>LOCATION</b>              107. <b>REMARKS</b>              108. <b>INITIALS</b>              109. <b>SIGNATURE</b>              110. <b>DATE</b>              111. <b>TIME</b>              112. <b>LOCATION</b>              113. <b>REMARKS</b>              114. <b>INITIALS</b>              115. <b>SIGNATURE</b>              116. <b>DATE</b>              117. <b>TIME</b>              118. <b>LOCATION</b>              119. <b>REMARKS</b>              120. <b>INITIALS</b>              121. <b>SIGNATURE</b>              122. <b>DATE</b>              123. <b>TIME</b>              124. <b>LOCATION</b>              125. <b>REMARKS</b>           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<b>INITIALS</b>              157. <b>SIGNATURE</b>              158. <b>DATE</b>              159. <b>TIME</b>              160. <b>LOCATION</b>              161. <b>REMARKS</b>              162. <b>INITIALS</b>              163. <b>SIGNATURE</b>              164. <b>DATE</b>              165. <b>TIME</b>              166. <b>LOCATION</b>              167. <b>REMARKS</b>              168. <b>INITIALS</b>              169. <b>SIGNATURE</b>              170. <b>DATE</b>              171. <b>TIME</b>              172. <b>LOCATION</b>              173. <b>REMARKS</b>              174. <b>INITIALS</b>              175. <b>SIGNATURE</b>              176. <b>DATE</b>              177. <b>TIME</b>              178. <b>LOCATION</b>              179. <b>REMARKS</b>              180. <b>INITIALS</b>              181. <b>SIGNATURE</b>              182. <b>DATE</b>              183. <b>TIME</b>              184. <b>LOCATION</b>              185. <b>REMARKS</b>              186. <b>INITIALS</b>              187. <b>SIGNATURE</b>              188. <b>DATE</b>              189. <b>TIME</b>              190. <b>LOCATION</b>              191. <b>REMARKS</b>              192. <b>INITIALS</b>              193. <b>SIGNATURE</b>              194. <b>DATE</b>              195. <b>TIME</b>              196. <b>LOCATION</b>              197. <b>REMARKS</b>              198. <b>INITIALS</b>              199. <b>SIGNATURE</b>              200. <b>DATE</b>              201. <b>TIME</b>              202. <b>LOCATION</b>              203. <b>REMARKS</b>              204. <b>INITIALS</b>              205. <b>SIGNATURE</b>              206. <b>DATE</b>              207. <b>TIME</b>              208. <b>LOCATION</b>              209. <b>REMARKS</b>              210. <b>INITIALS</b>              211. <b>SIGNATURE</b>              212. <b>DATE</b>              213. <b>TIME</b>              214. <b>LOCATION</b>              215. <b>REMARKS</b>              216. <b>INITIALS</b>              217. <b>SIGNATURE</b>              218. <b>DATE</b>              219. <b>TIME</b>              220. <b>LOCATION</b>              221. <b>REMARKS</b>              222. <b>INITIALS</b>              223. <b>SIGNATURE</b>              224. <b>DATE</b>              225. <b>TIME</b>              226. <b>LOCATION</b>              227. <b>REMARKS</b>              228. <b>INITIALS</b>              229. <b>SIGNATURE</b>              230. <b>DATE</b>              231. <b>TIME</b>              232. <b>LOCATION</b>              233. <b>REMARKS</b>              234. <b>INITIALS</b>              235. <b>SIGNATURE</b>              236. <b>DATE</b>              237. <b>TIME</b>              238. <b>LOCATION</b>              239. <b>REMARKS</b>              240. <b>INITIALS</b>              241. <b>SIGNATURE</b>              242. <b>DATE</b>              243. <b>TIME</b>              244. <b>LOCATION</b>              245. <b>REMARKS</b>              246. <b>INITIALS</b>              247. <b>SIGNATURE</b>              248. <b>DATE</b>              249. <b>TIME</b>  </p>
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PER TITLE

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STATE OF TEXAS

THOMAS EDWARD VAUGHAN

135335

LICENSED PROFESSIONAL ENGINEER

05.14.2020

MRB group

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Sheet No.

## E4.3

Project No.

**2054.18001**

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Lighting System

Pole / Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
A1-A2	70'	70'	4	TLC-LED-1200	4.68 kW	A
A3-A4	60'	16'	1	TLC-BT-575	0.58 kW	A
		60'	2	TLC-LED-900	1.78 kW	B
B1-B2	80'	16'	1	TLC-BT-575	0.58 kW	B
		80'	7	TLC-LED-1500	10.01 kW	A
B3-B4	60'	16'	1	TLC-BT-575	0.58 kW	A
		60'	5	TLC-LED-1200	5.85 kW	B
C1-C2	70'	16'	1	TLC-BT-575	0.58 kW	B
		70'	5	TLC-LED-1500	7.15 kW	A
C3-C4	60'	16'	2	TLC-BT-575	1.15 kW	A
		60'	3	TLC-LED-1200	3.51 kW	B
		16'	1	TLC-BT-575	0.58 kW	B
			66		74.01 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Baseball	48.28 kW	40
B	Softball	25.73 kW	26

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1200	LED 5700K - 75 CRI	1170W	136,000	>120,000	>120,000	>120,000	24
TLC-LED-900	LED 5700K - 75 CRI	890W	89,600	>120,000	>120,000	>120,000	4
TLC-LED-1500	LED 5700K - 75 CRI	1430W	160,000	>120,000	>120,000	>120,000	24
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	14

Light Level Summary

Calculation Grid Summary									
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty	
		Ave	Min	Max	Max/Min	Ave/Min			
Baseball Spill	Horizontal Illuminance	0.05	0.01	0.22	44.49	5.26	A	40	
Baseball Spill	Max Candela Metric	3587	913	8406	9.20	3.93	A	40	
Baseball Spill	Max Vertical Illuminance Metric	0.13	0.02	0.42	20.16	6.52	A	40	
Baseball (Infield)	Horizontal Illuminance	50.4	33	61	1.84	1.53	A	40	
Baseball (Outfield)	Horizontal Illuminance	30.3	18	42	2.29	1.68	A	40	
Softball Spill	Horizontal Illuminance	0.01	0	0.03	118.51		B	26	
Softball Spill	Max Candela Metric	764	65	2109	32.44	11.76	B	26	
Softball Spill	Max Vertical Illuminance Metric	0.03	0	0.09	64.72		B	26	
Softball (Infield)	Horizontal Illuminance	51.4	34	63	1.82	1.51	B	26	
Softball (Outfield)	Horizontal Illuminance	33.4	20	43	2.10	1.67	B	26	

ELECTRICAL LOAD ANALYSIS

LOAD	S.F	MIN. WATT/S.F.	KVA	AMP	DEMAND FACTOR	ESTIMATED DEMAND	AMP	NEC
1. LIGHTING LOAD								
A. FIELD LIGHTING			102		1.25	128		220.12
2. GENERAL POWER/RECEPTACLE LOAD:								
A. RECEPTACLE LOAD:			25		1.00	25		220.14,220.44
4. TOTAL CONNECTED LOAD:			127			153		
5. TOTAL AMP LOAD AT 480/277 VOLT, 3PHASE				153			184	

PANEL "LV3"

AMPS:	100 MAINS, 100A MCB	PHASE:	3	MOUNTING:	SURFACE
VOLTAGE:	120/208/3PH/4W	WIRE:	4	MINIMUM AIC RATING:	10 KAIC
LOCATION:	BA SEBALL/SOFTBALL FIELDS (STORAGE ROOM)	BUSSING:	COPPER		
FED FROM:	PANEL "HV3"	NEMA:	1		

CKT. NO.	SERVICE DESCRIPTION	WIRE	BKR	POLES	KVA	A	B	C	KVA	POLES	BKR	WIRE	SERVICE DESCRIPTION	CKT. NO.
1	WATER HEATER	10	20	1	0.5	1.0			0.5	1	20	12	WOMEN RECEPT	2
3	DUGOUT RECEPTACLE	10	20	1	0.5		1.0		0.5	1	20	12	MEN RECEPT	4
5	DUGOUT RECEPTACLE	10	20	1	0.5			0.6	0.1	1	20	12	STORAGE RECEPT	6
7	DUGOUT RECEPTACLE	10	20	1	0.5	0.6			0.1	1	20	12	CONCESSION LIGHTS	8
9	DUGOUT RECEPTACLE	10	20	1	0.5		0.6		0.1	1	20	12	CONCESSION EXTERIOR LIGHTS	10
11	SCOREBOARD	10	20	1	0.5			0.6	0.1	1	20	12	EXTERIOR LIGHTS	12
13	SCOREBOARD	10	20	1	0.5	0.6			0.1	1	20	12	WOMEN LIGHTS	14
15	MUSCO CONTROL POWER (CP2)	12	20	1	0.5		0.6		0.1	1	20	12	MEN LIGHTS	16
17	SPARE		20	1	0.0			0.1	0.1	1	20	12	STORAGE LIGHTS	18
19	SPARE		20	1	0.0	0.5			0.5	1	20	12	OUTDOOR RECEPT	20
21	SPARE		20	1	0.0		0.5		0.5	1	20	12	CONCESSIONS RECEPT	22
23	CONCESSIONS RECEPT	12	20	1	0.5			1.0	0.5	1	20	12	CONCESSIONS RECEPT	24
25	SPARE		20	1	0.0	0.5			0.5	1	20	12	CONCESSIONS RECEPT	26
27	SPARE		20	1	0.0		1.0		1.0	1	20	12	REFRIGERATOR RECEPT	28
29	SPARE		20	1	0.0	0.5			0.5	1	20	12	CONCESSIONS RECEPT	30
31	SPARE		20	1	0.0		0.0		0.0	1	20		SPARE	32
33	SPARE		20	1	0.0		0.0		0.0	1	20		SPARE	34
35	SPARE		20	1	0.0		0.0		0.0	1	20		SPARE	36
37	SPD		60	3	0.0		0.0		0.0	1	20		SPARE	38
39					0.0		0.0		0.0	1	20		SPARE	40
41					0.0			0.0	0.0	1	20		SPARE	42

PHASE LOAD IN KVA:					3.7	3.7	2.3
PHASE LOAD IN AMPS:					31	31	19

NOTE:	SQUARE D NQ
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PANEL "HV-3"

AMPS:	400 MAINS 300A MCB	PHASE:	3	MOUNTING:	SURFACE
VOLTAGE:	480/277	WIRE:	4	MINIMUM AIC RATING:	22 KAIC
LOCATION:	BASEBALL/SOFTBALL FIELDS (STORAGE ROOM)			BUSSING:	COPPER
FED FROM:	AEP TRANSFORMER			NEMA:	1

CKT. NO.	SERVICE DESCRIPTION	WIRE	BKR	POLES	KVA	A	B	C	KVA	POLES	BKR	WIRE	SERVICE DESCRIPTION	CKT. NO.
1	POLE A1 LIGHTS (BASEBALL)	10	30	3	2.5	3.6			1.1	3	30	10	POLE A3 LIGHTS (SOFTBALL)	2
3					2.5		3.6		1.1					4
5					2.5			3.6	1.1					6
7	POLE A2 LIGHTS (BASEBALL)	10	30	3	2.5	3.6			1.1	3	30	10	POLE A4 LIGHTS (SOFTBALL)	8
9					2.5		3.6		1.1					10
11					2.5			3.6	1.1					12
13	POLE B1 LIGHTS (BASEBALL)	8	30	3	4.8	7.7			2.9	3	30	10	POLE B3 LIGHTS (SOFTBALL)	14
15					4.8		7.7		2.9					16
17					4.8			7.7	2.9					18
19	POLE B2 LIGHTS (BASEBALL)	8	30	3	4.8	7.7			2.9	3	30	10	POLE B4 LIGHTS (SOFTBALL)	20
21					4.8		7.7		2.9					22
23					4.8			7.7	2.9					24
25	POLE C1 LIGHTS (BASEBALL)	6	30	3	3.9	5.7			1.8	3	30	10	POLE C3 LIGHTS (SOFTBALL)	26
27					3.9		5.7		1.8					28
29					3.9			5.7	1.8					30
31	POLE C2 LIGHTS (BASEBALL)	6	30	3	3.9	5.7			1.8	3	30	10	POLE C4 LIGHTS (SOFTBALL)	32
33					3.9		5.7		1.8					34
35					3.9			5.7	1.8					36
37	LV3	6	50	3	10.0	10.0			0.0	3	60	6	SPD	38
39					10.0		10.0		0.0					40
41					10.0			10.0	0.0					42

PHASE LOAD IN KVA:					44.0	44.0	44.0
PHASE LOAD IN AMPS:					159	159	159

NOTE:

1. SQUARE D NFW WITH FEED THRU LUGS

2. FOR POLE LIGHTING CIRCUITS PROVIDE CONTROL CIRCUIT LOCK-ON DEVICE TO PREVENT UNAUTHORIZED POWER INTERRUPTION TO CONTROL POWER. REFER TO MUSCO SUBMITTALS.

PANEL "HV-4"

AMPS:	400 MAINS MLO	PHASE:	3	MOUNTING:	SURFACE
VOLTAGE:	480/277	WIRE:	4	MINIMUM AIC RATING:	22 KAIC
LOCATION:	BASEBALL/SOFTBALL FIELDS (\$ STORAGE ROOM)	BUSSING:	COPPER		
FED FROM:	HV-3	NEMA:	1		

CKT. NO.	SERVICE DESCRIPTION	WIRE	BKR	POLES	KVA	A	B	C	KVA	POLES	BKR	WIRE	SERVICE DESCRIPTION	CKT. NO.
1	SPACE					0.0							SPACE	2
3	SPACE						0.0						SPACE	4
5	SPACE							0.0					SPACE	6
7	SPACE					0.0							SPACE	8
9	SPACE						0.0						SPACE	10
11	SPACE							0.0					SPACE	12
13	SPACE					0.0							SPACE	14
15	SPACE						0.0						SPACE	16
17	SPACE							0.0					SPACE	18
19	SPACE					0.0							SPACE	20
21	SPACE						0.0						SPACE	22
23	SPACE							0.0					SPACE	24
25	SPACE					0.0							SPACE	26
27	SPACE						0.0						SPACE	28
29	SPACE							0.0					SPACE	30
31	SPACE					0.0							SPACE	32
33	SPACE						0.0						SPACE	34
35	SPACE							0.0					SPACE	36
37	SPACE					0.0							SPACE	38
39	SPACE						0.0						SPACE	40
41	SPACE							0.0					SPACE	42

PHASE LOAD IN KVA:					0.0	0.0	0.0
PHASE LOAD IN AMPS:					0	0	0

NOTE: 1. SQUARE D NF

LIGHTING FIXTURE SCHEDULE									
TYPE	MANUFACTURER	CATALOG NO.	LAMP			VOLTS	MOUNTING	REMARKS	
			QTY	TYPE	WATTS				
A	LITHONIA	FEM L48 4000LM IMAFD MD 120 40K		LED	31	120	CEILING	1X4 LED STRIP	
AEM	LITHONIA	FEM L48 4000LM IMAFD MD 120 40K		LED	31	120	CEILING	1X4 LED STRIP WITH BATTERY	
W1	LUMARK	XTOR 4B-W		LED	38	120	WALL	LED FULL CUTOFF, 4000K, MOUNT 9' AFF	
X	LITHONIA	LQM S W 3 R 120/277 EL N		LED	0.92	120	WALL	EXIT LIGHT WITH BATTERY PACK	
P	SELUX	DSCLS-R5-1-L65-50 SOLAR		LED	65	12	POLE	BRONZE FINISH, COORDINATE BATTERIES, PANEL, & OPERATION PROFILE WITH OW #3747 (16" ROUND STEEL POLE)	



Lighting System

Pole / Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
A5	60'	60'	2	TLC-LED-1200	2.34 kW	A
		16'	1	TLC-BT-575	0.58 kW	A
		60'	2	TLC-LED-1200	2.34 kW	A
A6	60'	60'	2	TLC-LED-1200	2.34 kW	B
		16'	1	TLC-BT-575	0.58 kW	A
		16'	1	TLC-BT-575	0.58 kW	B
A7	60'	60'	2	TLC-LED-1200	2.34 kW	B
		16'	1	TLC-BT-575	0.58 kW	B
		70'	5	TLC-LED-1500	7.15 kW	A
B5-B6	70'	16'	1	TLC-BT-575	0.58 kW	A
		70'	5	TLC-LED-1500	7.15 kW	B
B7-B8	70'	16'	1	TLC-BT-575	0.58 kW	B
			36		42.56 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Little League 1	21.28 kW	18
B	Little League 2	21.28 kW	18

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1200	LED 5700K - 75 CRI	1170W	136,000	>120,000	>120,000	>120,000	8
TLC-LED-1500	LED 5700K - 75 CRI	1430W	160,000	>120,000	>120,000	>120,000	20
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	8

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination				Ave/Min	Circuits	Fixture Qty
		Ave	Min	Max	Max/Min			
Little League 1 Spill	Horizontal Illuminance	0.04	0	0.10	0.00		A	18
Little League 1 Spill	Max Candela Metric	3912	23.8	14323	602.61	164.57	A	18
Little League 1 Spill	Max Vertical Illuminance Metric	0.11	0	0.27	1720.23		A	18
Little League 1 (Infield)	Horizontal Illuminance	51.1	35	62	1.76	1.46	A	18
Little League 1 (Outfield)	Horizontal Illuminance	34.1	21	42	2.00	1.63	A	18
Little League 2 Spill	Horizontal Illuminance	0.05	0	0.11	782.74		B	18
Little League 2 Spill	Max Candela Metric	6661	140	14819	106.03	47.66	B	18
Little League 2 Spill	Max Vertical Illuminance Metric	0.15	0	0.33	341.15		B	18
Little League 2 (Infield)	Horizontal Illuminance	50.7	35	62	1.80	1.45	B	18
Little League 2 (Outfield)	Horizontal Illuminance	32.8	21	43	2.03	1.56	B	18

ELECTRICAL LOAD ANALYSIS

LOAD	S.F	MIN. WATT/S.F.	KVA	AMP	DEMAND FACTOR	ESTIMATED DEMAND	AMP	NEC
1. LIGHTING LOAD								
A. FIELD LIGHTING			60		1.25	75		220.12
2. GENERAL POWER/RECEPTACLE LOAD:								
A. RECEPTACLE LOAD:			30		1.00	30		220.14 220.44
4. TOTAL CONNECTED LOAD:			90			105		
5. TOTAL AMP LOAD AT 480/277 VOLT, 3PHASE				108			126	

PANEL "HV-1"

AMPS:	400 MAINS 400A MCB	PHASE:	3	MOUNTING:	SURFACE									
VOLTAGE:	480/277	WIRE:	4	MINIMUM AIC RATING:	22 KAIC									
LOCATION:	SERVICE ENTRANCE EQUIPMENT RACK			BUSSING:	COPPER									
FED FROM:	AEP TRANSFORMER			NEMA:	3R									
CKT. NO.	SERVICE DESCRIPTION	WIRE	BKR	POLES	KVA	A	B	C	KVA	POLES	BKR	WIRE	SERVICE DESCRIPTION	CKT. NO.
1	HV-2	#4/0	200	3	44.0	49.0			5.0	3	25	10	LV1	2
3					44.0		49.0		5.0					4
5					44.0			49.0	5.0					6
7	SPACE					0.0							SPACE	8
9	SPACE						0.0						SPACE	10
11	SPACE							0.0					SPACE	12
13	SPACE					0.0							SPACE	14
15	SPACE						0.0						SPACE	16
17	SPACE							0.0					SPACE	18
19	SPACE					0.0							SPACE	20
21	SPACE						0.0						SPACE	22
23	SPACE							0.0					SPACE	24
25	SPACE					0.0							SPACE	26
27	SPACE						0.0						SPACE	28
29	SPACE							0.0					SPACE	30
31	SPACE					0.0							SPACE	32
33	SPACE						0.0						SPACE	34
35	SPACE							0.0					SPACE	36
37	SPACE					0.0							SPACE	38
39	SPACE						0.0						SPACE	40
41	SPACE							0.0					SPACE	42
PHASE LOAD IN KVA:						49.0	49.0	49.0						
PHASE LOAD IN AMPS:						177	177	177						
NOTE:	1. SQUARE D NF													

PANEL "LV1"

AMPS:	100 MAINS, 60A MCB	PHASE:	3	MOUNTING:	SURFACE									
VOLTAGE:	120/208/3PH/4W	WIRE:	4	MINIMUM AIC RATING:	10 KAIC									
LOCATION:	SERVICE ENTRANCE EQUIPMENT RACK			BUS SING:	COPPER									
FED FROM:	PANEL "HV1"			NEMA:	3R									
CKT. NO.	SERVICE DESCRIPTION	WIRE	BKR	POLES	KVA	A	B	C	KVA	POLES	BKR	WIRE	SERVICE DESCRIPTION	CKT. NO.
1	CANOPY LIGHTS	12	20	1	0.1	0.6			0.5	1	20	12	RES TROOM RECEPT	2
3	CANOPY RECEPT	12	20	1	0.5		1.0		0.5	1	20	12	RES TROOM LIGHTS	4
5	SPARE		20	1	0.0			0.1	0.1	1	20	12	PAVILION RECEPT	6
7	SPARE		20	1	0.0	0.1			0.1	1	20	12	PAVILION FANS	8
9	SPARE		20	1	0.0		0.1		0.1	1	20	12	PAVILION LIGHTS	10
11	SPARE		20	1	0.0			0.1	0.1	1	20	12	PAVILION RECEPT	12
13	SPARE		20	1	0.0	0.0			0.0	1	20		SPARE	14
15	SPARE		20	1	0.0		0.0		0.0	1	20		SPARE	16
17	SPARE		20	1	0.0			0.0	0.0	1	20		SPARE	18
19	SPARE		20	1	0.0	0.0			0.0	1	20		SPARE	20
21	SPARE		20	1	0.0		0.0		0.0	1	20		SPARE	22
23	SPARE		20	1	0.0			0.0	0.0	1	20		SPARE	24
25	SPARE		20	1	0.0	0.0			0.0	1	20		SPARE	26
27	SPARE		20	1	0.0		0.0		0.0	1	20		SPARE	28
29	SPARE		20	1	0.0	0.0			0.0	1	20		SPARE	30
31	SPARE		20	1	0.0		0.0		0.0	1	20		SPARE	32
33	SPARE		20	1	0.0		0.0		0.0	1	20		SPARE	34
35	SPARE		20	1	0.0		0.0		0.0	1	20		SPARE	36
37	SPD		60	3	0.0		0.0		0.0	1	20		SPARE	38
39					0.0		0.0		0.0	1	20		SPARE	40
41					0.0			0.0	0.0	1	20		SPARE	42
PHASE LOAD IN KVA:						0.7	1.1	0.2						
PHASE LOAD IN AMPS:						6	9	2						
NOTE:	SQUARE D NQ													



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Project Title:  
TOM GREEN COUNTY  
PUGH PARK  
LITTLE LEAGUE  
ELECTRICAL SCHEDULES

Drawn By: AH  
Checked By: TV  
Scale: PER TITLE  
Date: 05/14/2020

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