

# TOM GREEN COUNTY WATER VALLEY, TEXAS

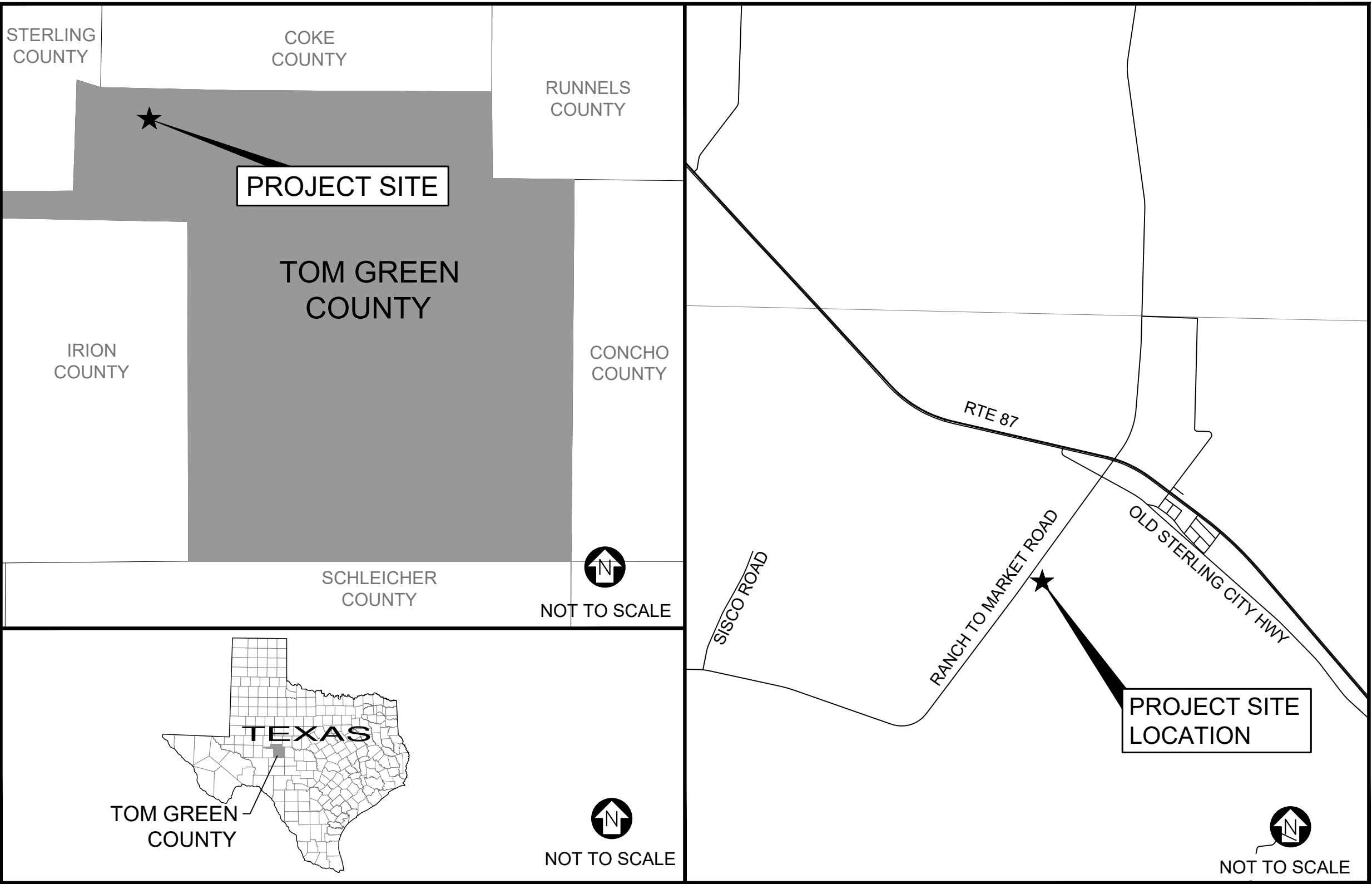
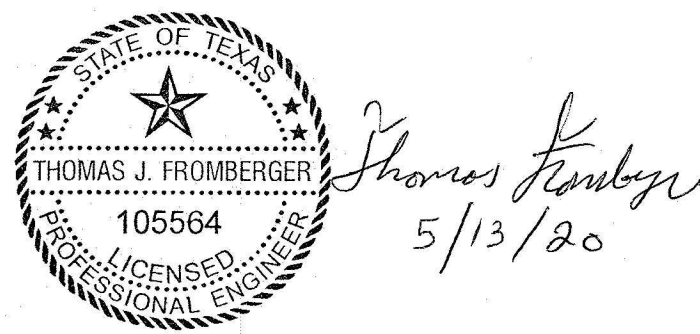
# HARPER PARK IMPROVEMENTS

MAY 13, 2020

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SITE LOCATION MAP  
31° 11' 02.42" N 100° 29' 43.01" W

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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 AS BE 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 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 CLOSE TO BUSINESS 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 CONTRACTOR'S 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 OBLVATE 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 BY 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 PLACE AND TO ELIMINATE REDUNDANCY, DO 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. ANY 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. IN THE EVENT OF ANY DISCREPANCY BETWEEN THE DRAWINGS, THE CONTRACTOR SHALL INVESTIGATE, VERIFY, 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

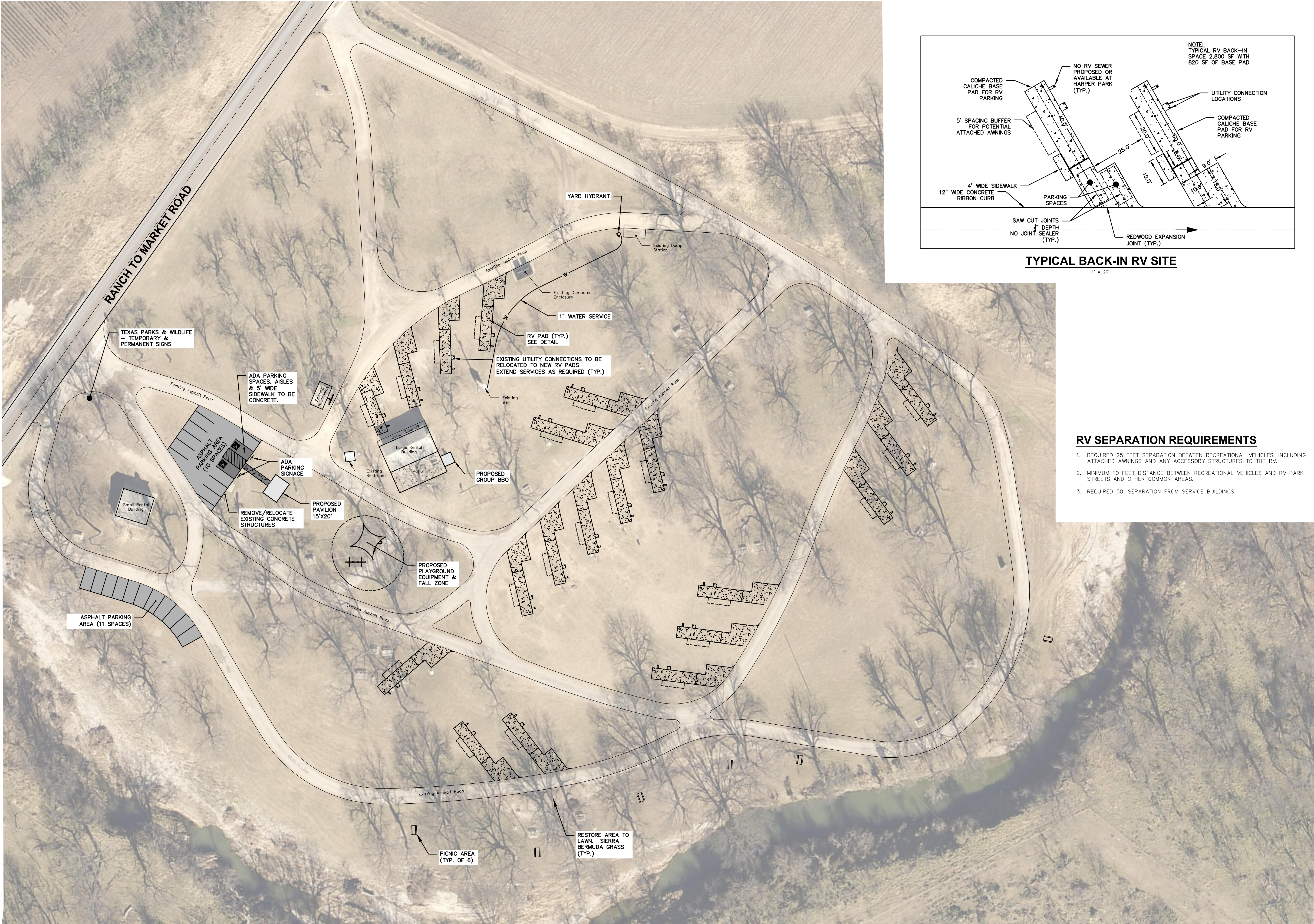
A.C.T.	ACOUSTICAL CEILING TILE	JT.	JOINT
ADJ.	ADJACENT	KIT.	KITCHEN
A.F.F.	ABOVE FINISH FLOOR	LAM.	LAMINATE
ALUM.	ALUMINUM	LAV.	LAVATORY
ALT.	ALTERNATE	LWT.	LIGHT WEIGHT
ANOD.	ANODIZED	MAS.	MASONRY
APPROX.	APPROXIMATE	MAT.	MATERIAL
ARCH.	ARCHITECTURAL	MAX.	MAXIMUM
ASPH.	ASPHALT	MECH.	MECHANICAL
AUTO.	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.	MULCH
CER.	CERAMIC	MW.	MICROWAVE
C.J.	CONTROL JOINT	N	NORTH
CLG.	CEILING	N.I.C	NOT IN CONTRACT
CLKG.	CAULKING	NO. #	NUMBER
CLOS.	CLOSET	N.M.	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.	CONNECTION	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	RAD.	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	R.C.	RECESSED
EL.,ELEV.	ELEVATION	REF.	REFERENCE
ELEC.	ELECTRICAL	REFR.	REFRIGERATOR
ELEV.	ELEVATOR	REINF.	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	GROUND FACE C.M.U.	U.O.N.	UNLESS OTHERWISE NOTED
GL.	GLASS	VAP.	VAPOR BARRIER
GL.Z.	GLAZING	V.C.T.	VINYL COMPOSITION TILE
GND.	GROUND	VERT.	VERTICAL
GR.	GRADE	VEST.	VESTIBULE
G.W.B.	GYPSUM 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
HR.	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
INT.	INTERIOR		
J.C.	JANITOR'S CLOSET		

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 (i.e. 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 STORMWATER REQUIREMENTS.
7. ALL EROSION CONTROL MEASURES WITHIN TEXAS HIGHWAY BOUNDARIES 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.



N:\2054\19002\000\dwg\HARPER PARK\Site\Harper Park - Site Base.dwg, 5/15/2020 11:16:16 AM, tfromberger



RV SEPARATION REQUIREMENTS

1. REQUIRED 25 FEET SEPARATION BETWEEN RECREATIONAL VEHICLES, INCLUDING ATTACHED AWNINGS AND ANY ACCESSORY STRUCTURES TO THE RV.
2. MINIMUM 10 FEET DISTANCE BETWEEN RECREATIONAL VEHICLES AND RV PARK STREETS AND OTHER COMMON AREAS.
3. REQUIRED 50' SEPARATION FROM SERVICE BUILDINGS.

Project Title:		TOM GREEN COUNTY HARPER PARK IMPROVEMENTS WATER VALLEY, TEXAS	
Drawn By:	Checked By:	Scale:	Date:
KJM	TJF	1"=40'	3/25/20
Project No.		Drawing Title:	
2054.19002		OVERALL SITE PLAN	
Sheet No.		G-1	
Project No.		2054.19002	
MRB group		Engineering, Architecture, Surveying, P.C.	
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PROFESSIONAL		PROFESSIONAL	
4/24/20		4/24/20	
REVISED PER COUNTY COMMENT		REVISED PER COUNTY COMMENT	
Revisions and Descriptions		Revisions and Descriptions	
No.		No.	
1		1	
By		By	
TJF		TJF	
Date		Date	
4/24/20		4/24/20	
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1. SILT POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 18".
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE TRENCH IS DEEP ENOUGH TO BACKFILL WITH FLAT GRAVEL TO THE LINE OF FLOW, WHERE THE FENCE CAN NOT BE TRENCHED INTO THE SURFACE (E.G. PAVEMENT), THE FABRIC FLAP SHALL BE WEIGHTED DOWN WITH WASHED GRAVEL ON UPHILL SIDE TO PREVENT FLOW UNDER FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 6" DEEP AND 6" WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE TIGHTLY AGAINST THE BACKFILL.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST.
5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO OBSTRUCT STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6" - THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.
8. ALL EROSION CONTROL MEASURES MUST CONFORM TO TCEQ REQUIREMENTS FOR NON-POINT SOURCE POLLUTION.

N.T.S.



USE UNTREATED WOOD CHIPS PRODUCED FROM A 3 (THREE) INCH MINUS SCREENING PROCESS (EQUIVALENT TO TXDOT ITEM 161, COMPOST, SECTION 1.6.2.B, WOOD CHIP REQUIREMENTS).

MULCH CONSISTS PRIMARILY OF ORGANIC MATERIAL, SEPARATED AT THE POINT OF GENERATION, AND MAY INCLUDE: SHREDDED BARK, STUMP GRINDINGS, OR COMPOSTED BARK.

LARGE PORTIONS OF SILT, CLAYS, OR FINE SANDS ARE NOT ACCEPTABLE IN THE MULCH.

1. STEEL OR WOOD POSTS WHICH SUPPORT THE MULCH SOCK SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 600mm (24 inches). IF WOOD POSTS CANNOT ACHIEVE 600mm (24 inches) DEPTH, USE STEEL POSTS. EARTH ANCHORS ARE ALSO ACCEPTABLE

2. THE TOE OF THE MULCH SOCK SHALL BE PLACED SO THAT THE MULCH SOCK IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. IN ORDER TO PREVENT WATER FROM FLOWING BETWEEN THE JOINTS OF ADJACENT ENDS OF MULCH SOCKS, LAP THE ENDS OF ADJACENT MULCH SOCKS A MINIMUM OF 300mm (12 inches).

3. MULCH MATERIAL MUST BE FREE OF REFUSE, PHYSICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT GROWTH. IT IS NOT ACCEPTABLE FOR THE MULCH MATERIAL TO CONTAIN GROUND CONSTRUCTION DEBRIS, BIOSOLIDS, OR MANURE.

4. SOCK MATERIAL WILL BE 100% BIODEGRADABLE, PHOTODEGRADABLE, OR RECYCLABLE SUCH AS BURLAP, TWINE, UV PHOTOBIODEGRADABLE PLASTIC, POLYESTER, OR ANY OTHER ACCEPTABLE MATERIAL.

5. MULCH SOCKS SHOULD BE USED AT THE BASE OF SLOPES NO STEEPER THAN 2:1 AND SHOULD NOT EXCEED THE MAXIMUM SPACING CRITERIA PROVIDED IN CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL TABLE 1.4.5.F.1 FOR A GIVEN SLOPE CATEGORY.

6. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 150mm (6 inches). THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.

N.T.S.



N.T.S.



N.T.S.



- ① EXPANSION JOINT WITH JOINT FILLER
- ② CONTRACTION JOINT



N.T.S.



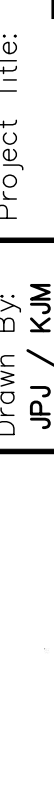
N.T.S.



N.T.S.



N.T.S.

<div>MRBgroup</div> <div>Engineering, Architecture, Surveying, P.C.</div> <div>5250 S. 31st Street, Temple, Texas 76702 Phone: 254-771-2054</div> <div>8834 N. Capital of Texas Highway, Suite 147, Austin, Texas 78726 Phone: 512-436-8571</div>		<div></div> <div>Thomas J. Fromberger</div> <div>4/24/20</div>		<div>Drawn By:</div> <div>JPU / KM</div>		<div>Project Title:</div> <div>TOM GREEN COUNTY</div> <div>HARPER PARK IMPROVEMENTS</div> <div>WATER VALLEY, TEXAS</div>															
				<div>Checked By:</div> <div>TJF</div>		<div>Scale:</div> <div>AS SHOWN</div>		<div>Drawing Title:</div> <div>DETAILS</div>													
				<div>Date:</div> <div>3/25/20</div>						1		REVISED		PER COUNTY COMMENT		WATER SERVICE					
										No.		Revisions and Descriptions		By		Date					
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Sheet No.		D-1		_____ of _____		Project No.		2054.19002													



48"

Tom Green County  
Harper 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

96"

TEMPORARY SIGNAGE

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

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

24"

1" TEXT

5/8" TEXT

NOTE: SIGNAGE MATERIALS TBD BY OWNER

PERMANENT SIGNAGE / PLAQUE

Project Title:  
TOM GREEN COUNTY  
HARPER PARK IMPROVEMENTS  
WATER VALLEY, 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  
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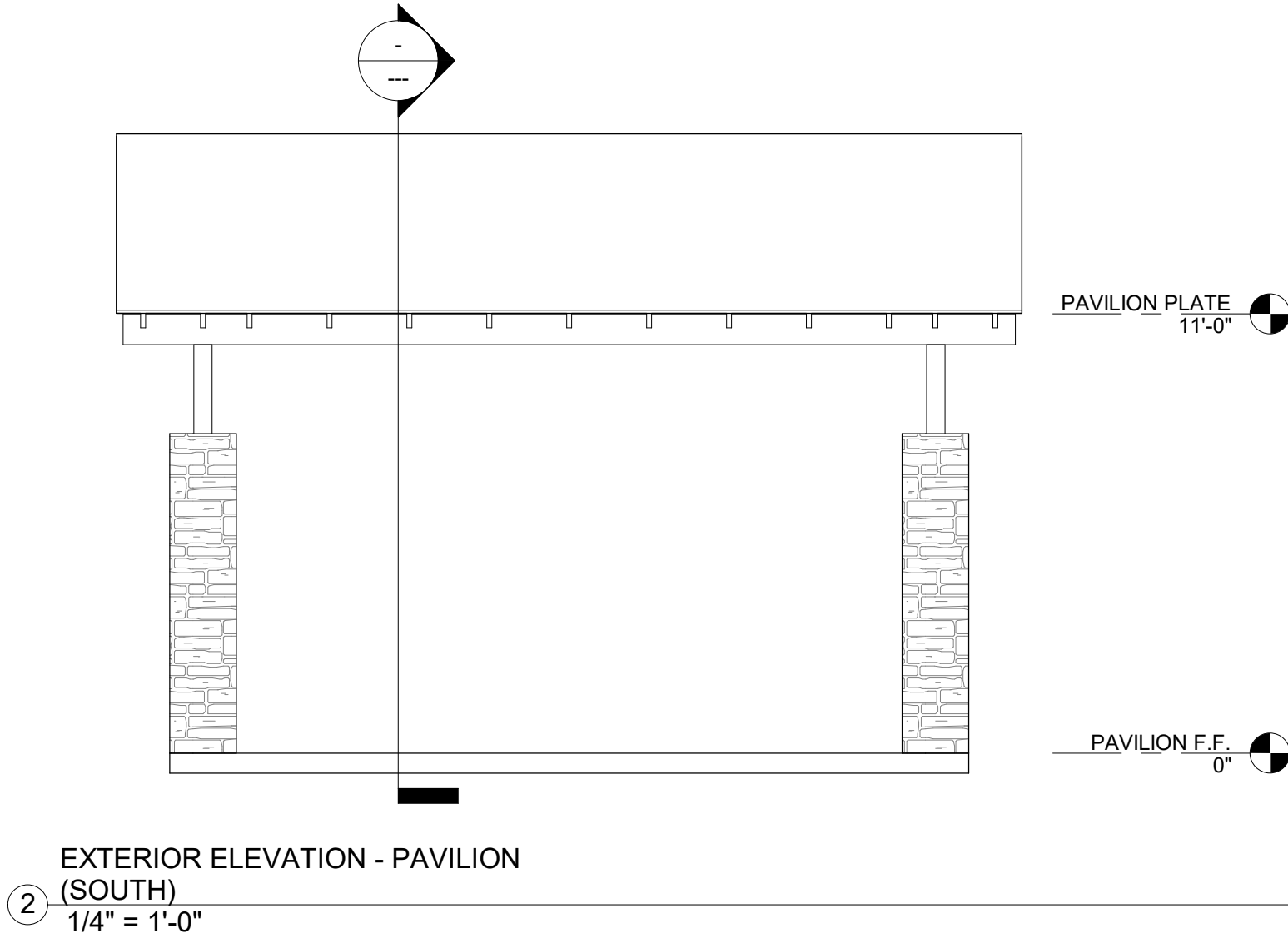
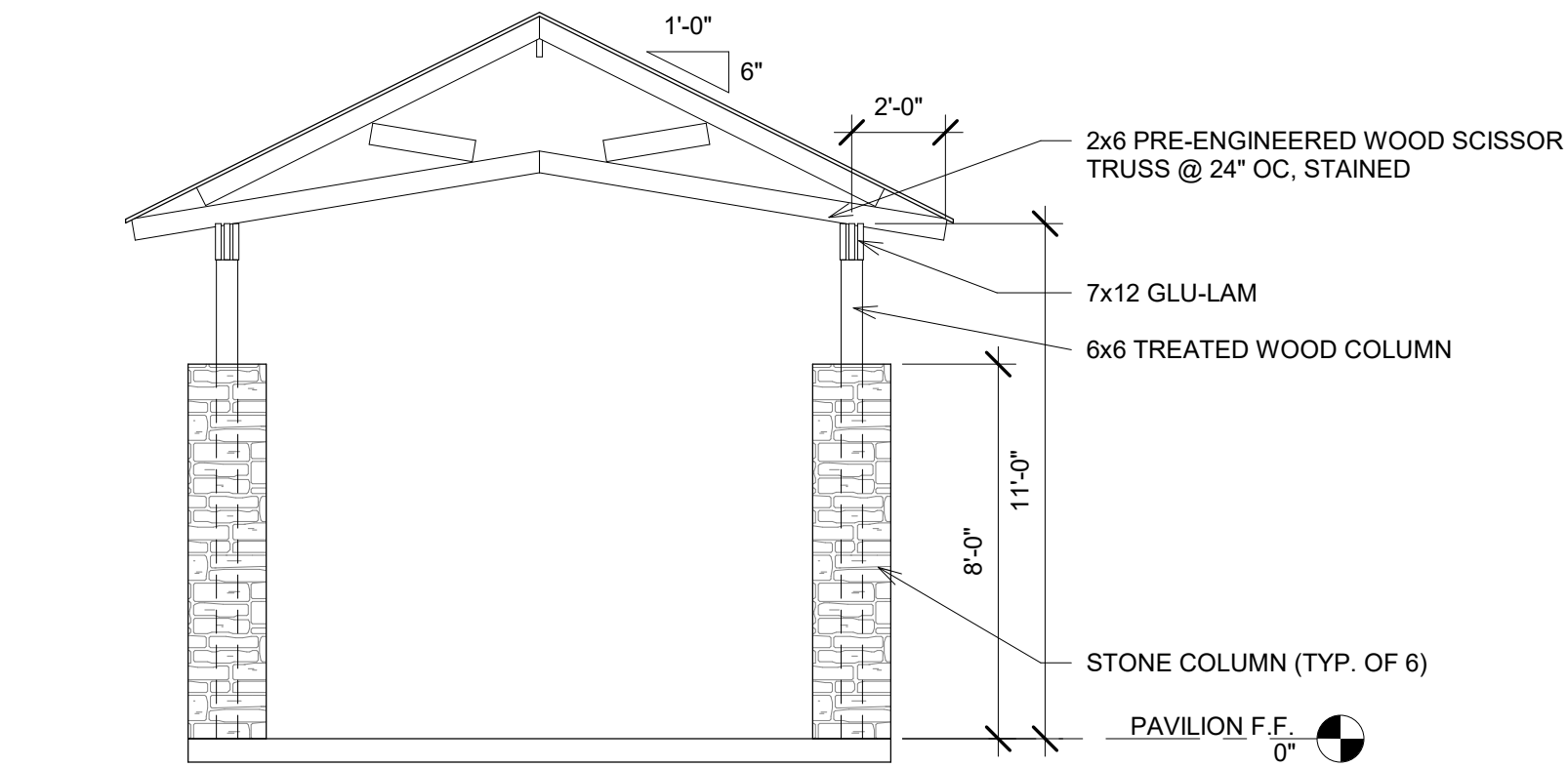
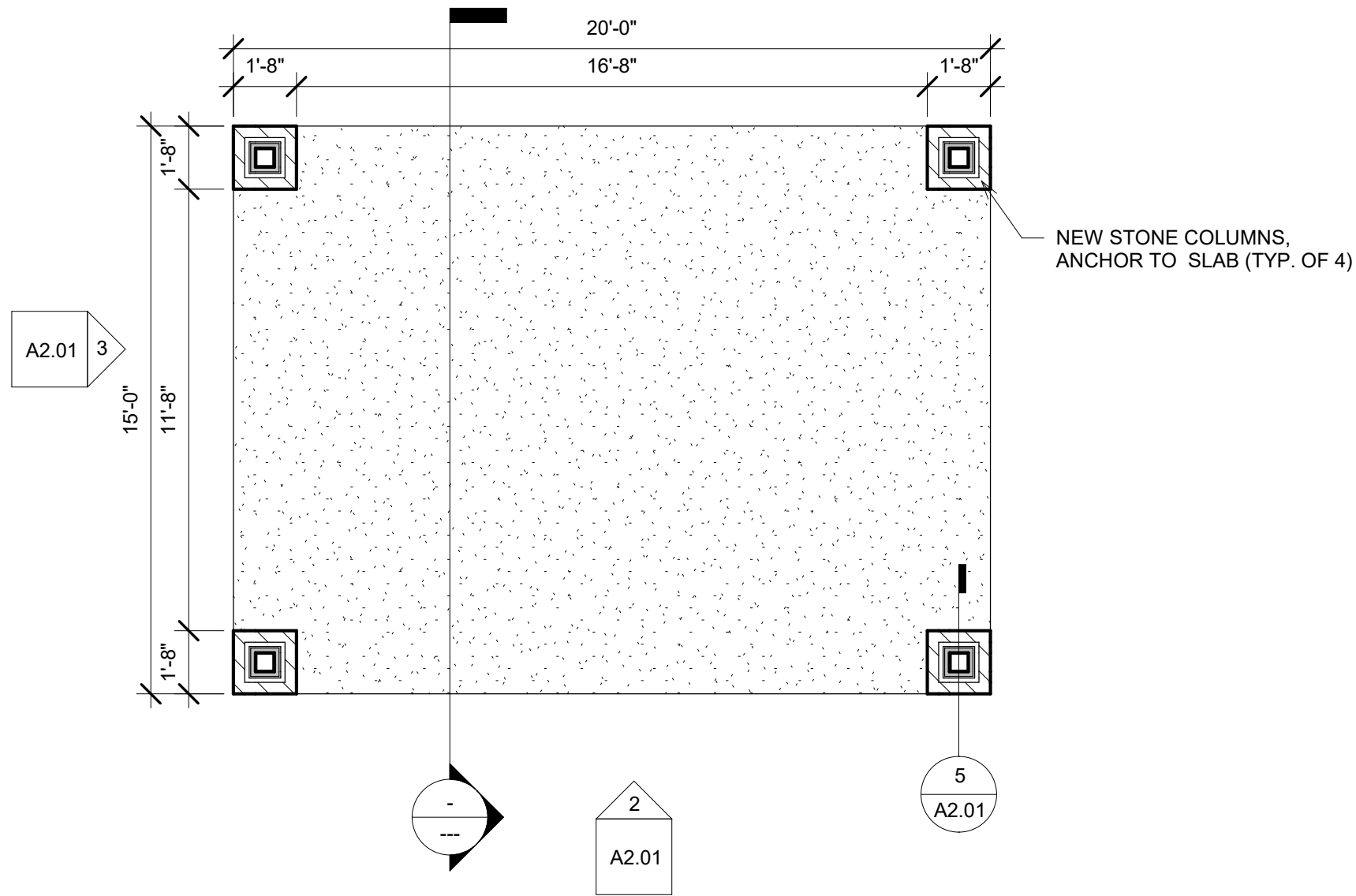
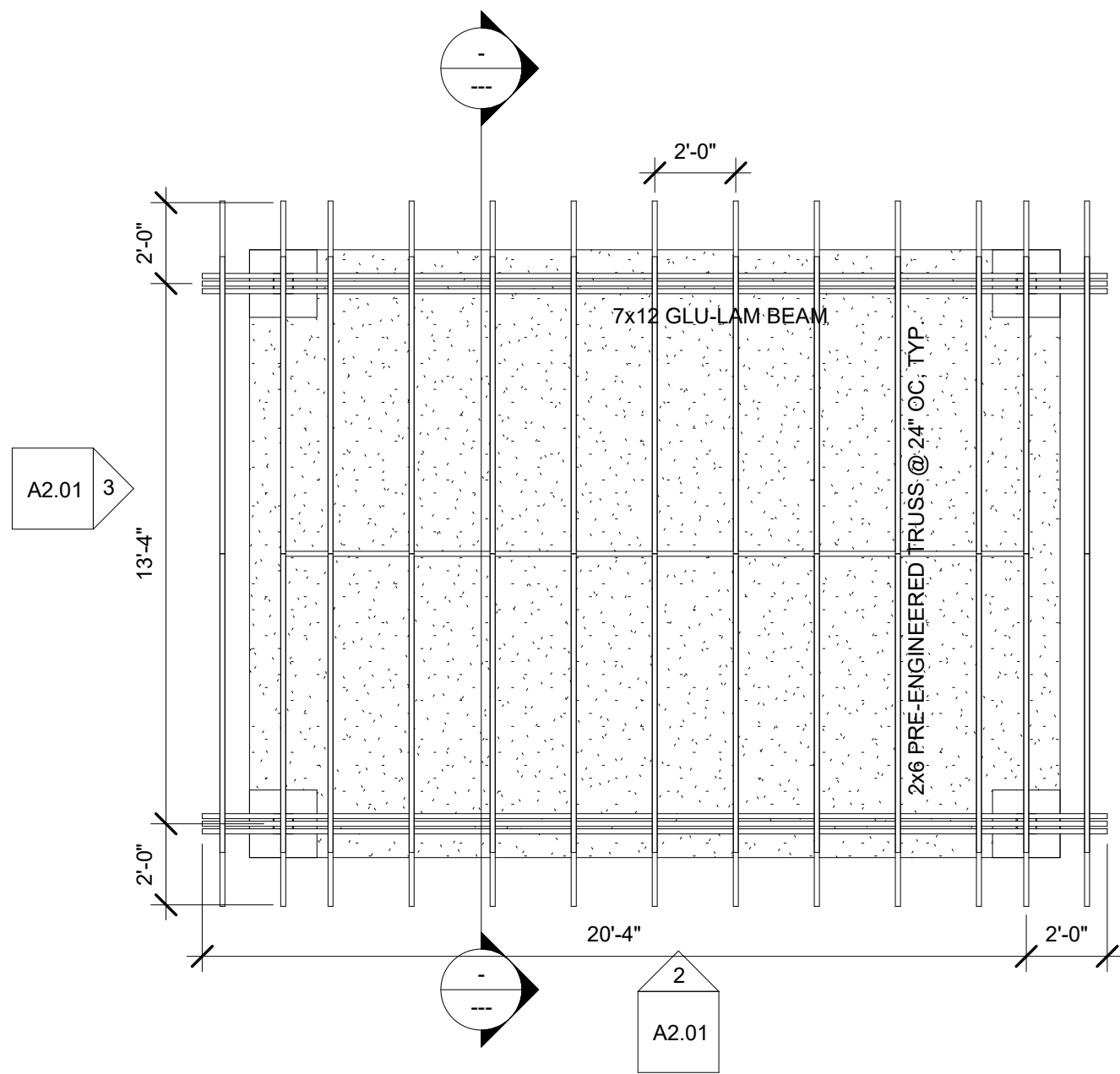
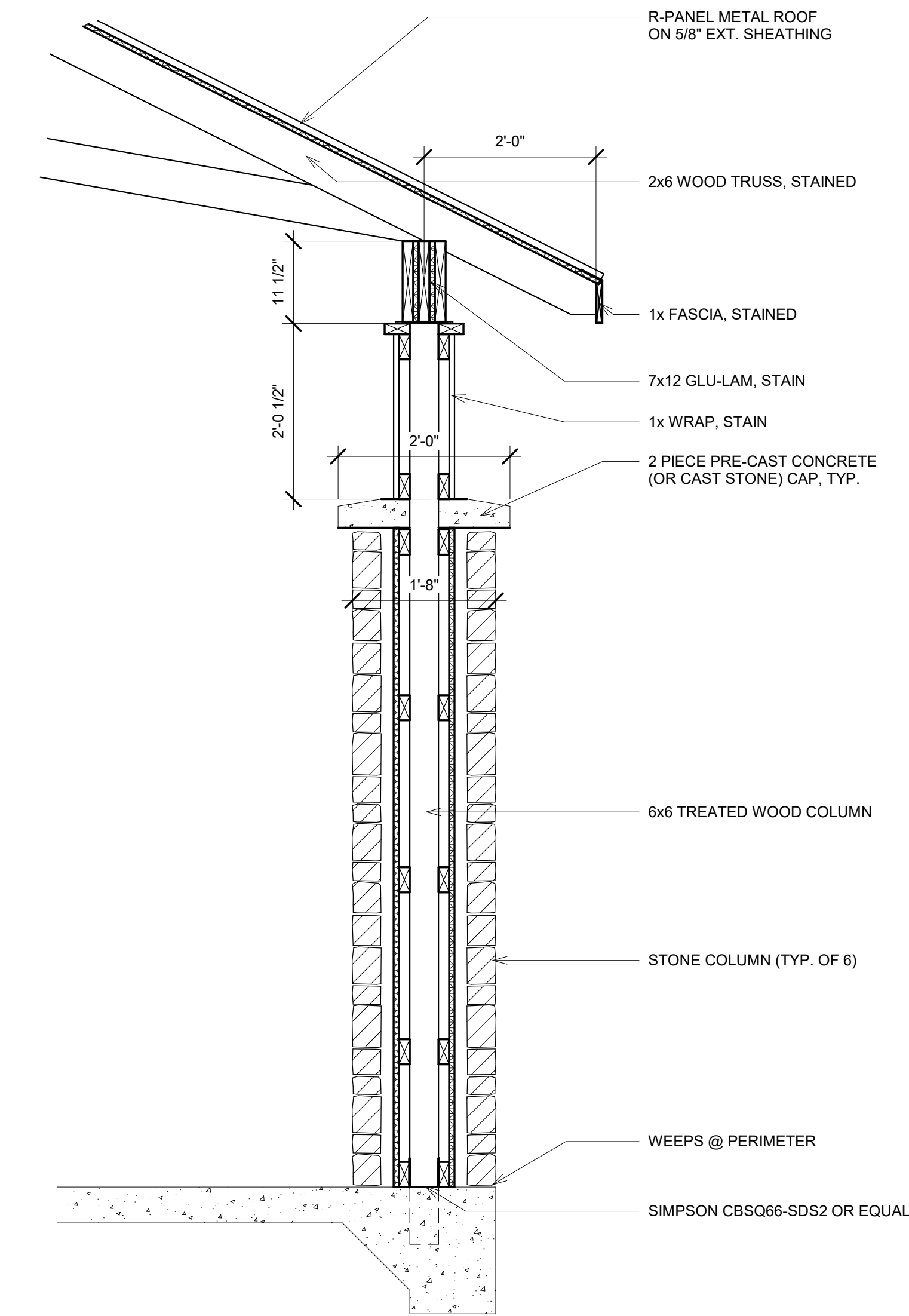
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A1.01  
of

Project No.  
2054.18001

No. 1  
Revisions and Descriptions  
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By  
Date



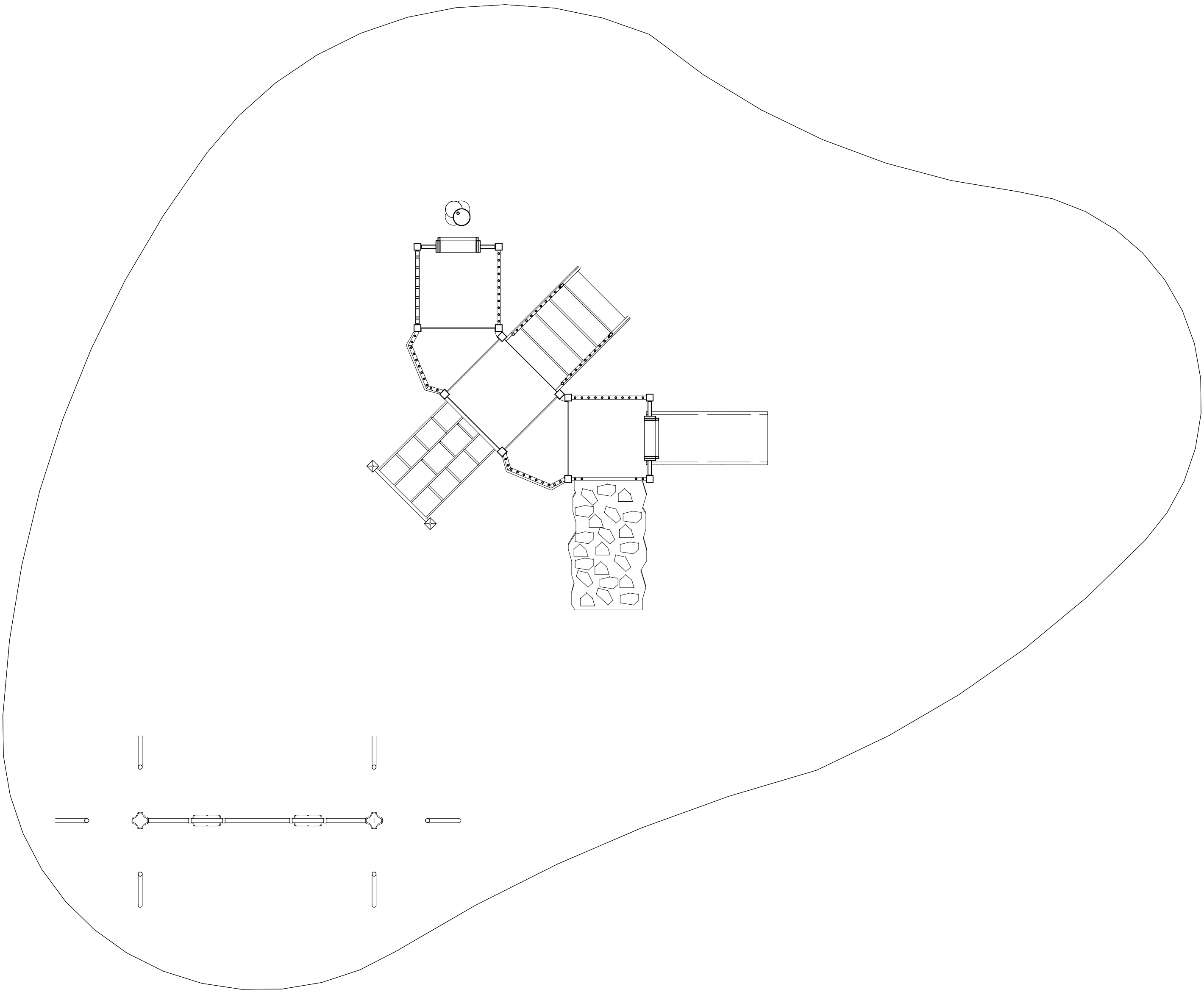


Project Title:		TOM GREEN COUNTY HARPER PARK IMPROVEMENTS WATER VALLEY, TEXAS	
Drawn By:	CNC	Checked By:	RS
Scale:	As indicated	Date:	02/25/2020
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Project No.		2054.18001	
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REGISTERED ARCHITECT  
TANYA L. MIKULIC  
STATE OF TEXAS  
11881  
12-25-2020

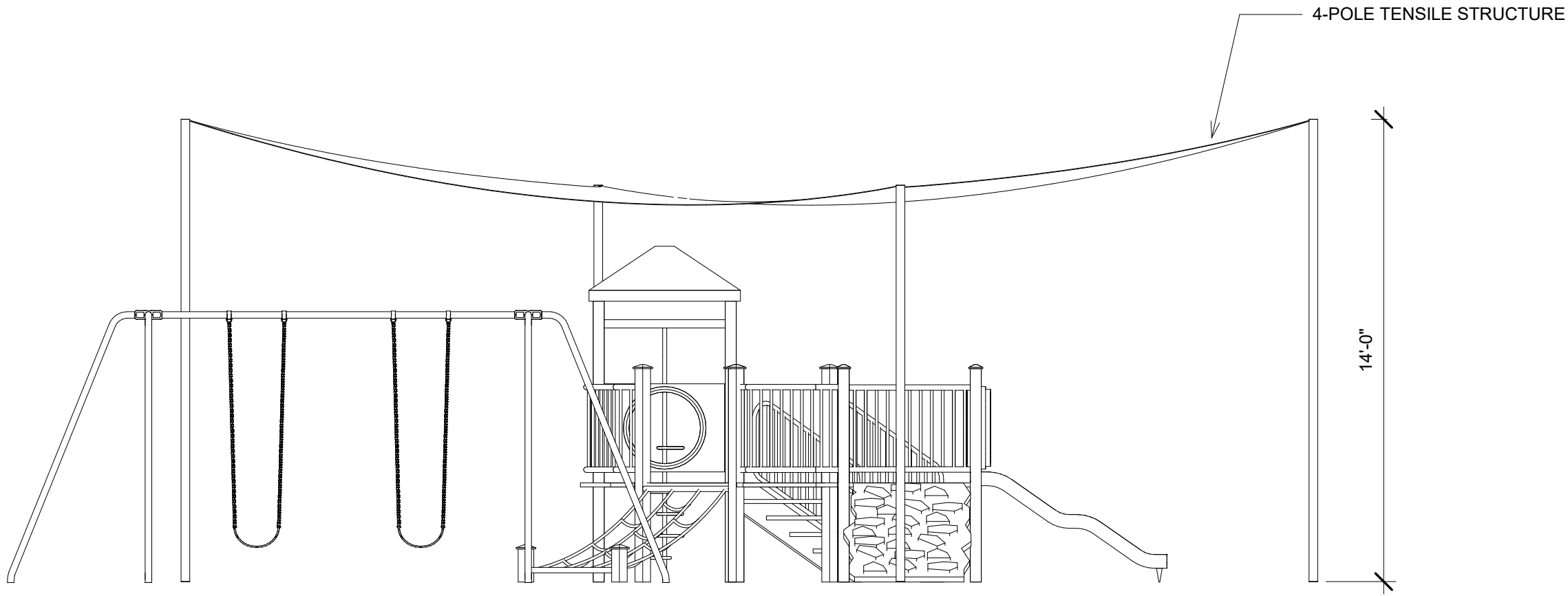
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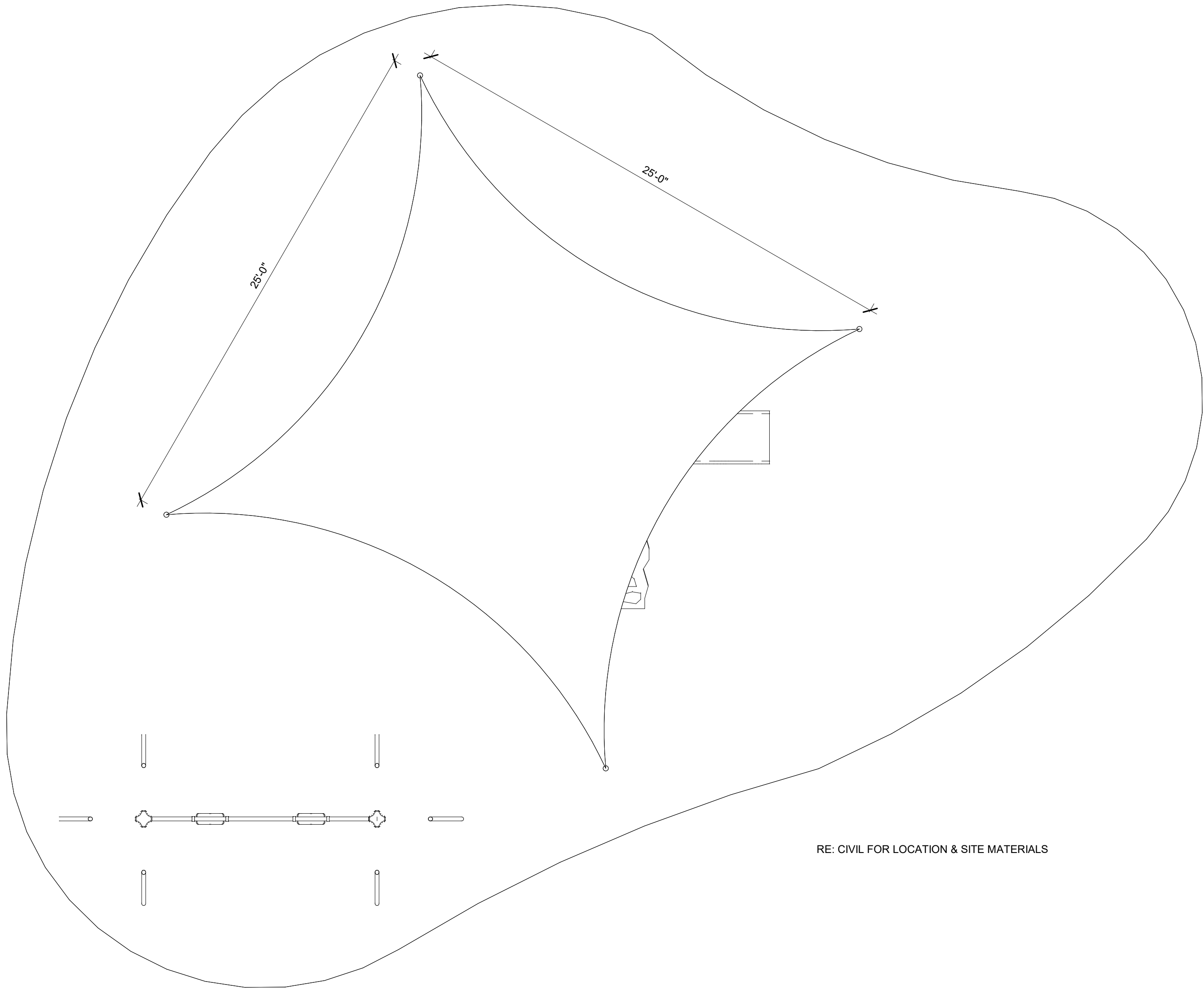


2 PLAYGROUND F.F. Copy 1  
1/4" = 1'-0"

3  
A2.02



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



1 PLAYGROUND F.F.  
1/4" = 1'-0"

3  
A2.02

RE: CIVIL FOR LOCATION & SITE MATERIALS



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Sheet No.  
**A2.02**  
of  
Project No.  
**2054.18001**

Project Title:  
**TOM GREEN COUNTY  
HARPER PARK IMPROVEMENTS  
WATER VALLEY, TEXAS**  
Drawing Title:  
**PLAN & ELEVATIONS - PLAYGROUND**

Drawn By: CMC  
Checked By: RS  
Scale: 1/4" = 1'-0"  
Date: 02/25/2020

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1	Copyright © 2018 MRB Group All Rights Reserved		
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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.

UNIFORM LIVE LOADS  
ROOF = 12 PSF

UNIFORM SUPERIMPOSED DEAD LOADS  
ROOF = 3 PSF CEILING & MECH + 7 PSF ROOFING

CONCENTRATED LIVE LOADS  
ROOF = N/A  
OTHER AREAS = UNIFORM LOAD ONLY
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 LAY TO A MINIMUM OF 8 INCH MAXIMUM LOOSE THICKNESS TO A DRY DENSITY OF NOT LESS THAN 95% OF STANDARD PROCTOR (ASTM D-95) 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.

1. ALL STRUCTURAL CONCRETE SHALL BE OF NORMAL WEIGHT AGGREGATE WITH SPECIFIED PROPERTIES AS FOLLOWS:

	28 DAY STRENGTH	SLUMP	MAX AGG.
GRADE BEAM	4000 PSI	4"	1"
SLABS ON GROUND	3000 PSI	4"	1"
2. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60, U.N.O
3. REINFORCING STEEL, SPECIFICALLY NOTED TO BE SHOP OR FIELD WELDED SHALL CONFORM TO ASTM A-70 GRADE 60. WELDING OF OTHER REINFORCING STEEL IS NOT PERMITTED.
4. ALL REINFORCING SHALL LAP 36 BAR DIAMETERS AT SPLICES UNLESS NOTED OTHERWISE. HOOK CONTINUOUS BARS AT DISCONTINUOUS ENDS.
5. DETAILING OF CONCRETE REINFORCING AND ACCESSORIES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI PUBLICATION 315.
6. UNLESS NOTED OTHERWISE, CONCRETE PROTECTION FOR REINFORCING SHALL BE AS FOLLOWS:

BEAMS AND WALLS ON EARTH	= 2" SIDES AND TOP, 3" BOTTOM
SLABS ON GROUND	= CENTER IN SLAB
7. NO HORIZONTAL JOINTS WILL BE PERMITTED IN CONCRETE, EXCEPT WHERE THEY NORMALLY OCCUR OR WHERE NOTED. VERTICAL JOINTS SHALL OCCUR AT 0 NEAR THE CENTER OF SPANS.

STRUCTURAL SHAPES AND PLATES SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED ON THE DRAWINGS:

A.	ALL WIDE FLANGE BEAMS AND COLUMNS	= ASTM A572, GRADE 50
B.	ALL TUBULAR MEMBERS	= ASTM A500, GRADE B
C.	ALL PIP MEMBERS	= ASTM A53 (TYPE E OR S) GRADE B
D.	ALL OTHER SHAPES AND PLATES	= ASTM A36

2. ALL CONNECTION BOLTS FOR STRUCTURAL STEEL MEMBERS SHALL BE 3/4 IN. DIA. CONFORMING TO ASTM A-325. ALL BOLTS SHALL BE TIGHTENED AS SPECIFIED FOR SLIP-CRITICAL CONNECTIONS. CONNECTIONS DESIGNED AS BEARING-TYPE SHALL BE BASED ON THREADS INCLUDED IN THE SHEAR PLANE.

3. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH A.W.S. CODE, BY CERTIFIED WELDERS. WELDING ELECTRODES SHALL BE E70 XX.

4. ALL STRUCTURAL STEEL SHALL HAVE ONE SHOP COAT OF STANDARD IRON OXIDE PRIMER, WITH A MINIMUM DRY FILM THICKNESS OF 1.5 MILS.

5. UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL BEAM TO BEAM AND BEAM TO COLUMN CONNECTIONS SHALL BE DESIGNED AS "SIMPLE CONNECTIONS"; AND SHALL BE SHOP WELDED AND FIELD BOLTED. SHEAR CONNECTIONS SHALL BE DESIGNED FOR HALF OF THE TOTAL LOAD CAPACITY LISTED ON THE TABLE: "ALLOWABLE LOADS ON BEAMS" OF THE AISC MANUAL OF STEEL CONSTRUCTION - ALLOWABLE STRESS DESIGN.

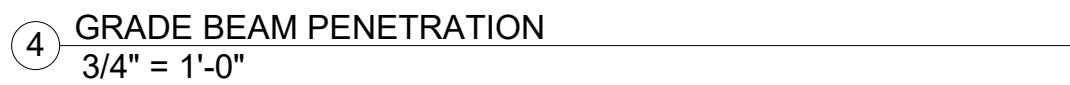
6. SHEAR CONNECTIONS NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED AND DETAILED BY THE STRUCTURAL STEEL FABRICATOR UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF TEXAS, USING THE DESIGN PARAMETERS INDICATED ON NOTE NO. 5 ABOVE.



7. CONNECTION INDICATED "M.C." ON THE DESIGN DRAWINGS SHALL BE DESIGNED AS MOMENT CONNECTIONS. IF NO DESIGN MOMENT IS NOTED, DESIGN CONNECTION TO RESIST THE FULL MOMENT CAPACITY OF THE MEMBER. SHEAR CONNECTIONS IN MOMENT CONNECTIONS SHALL BE WELDED OR FRICTION-TYPE BOLTED CONNECTIONS ONLY.

8. PROVIDE STIFFENERS AT ALL LOCATIONS SHOWN ON DETAILS WHETHER OR NOT THEY ARE REQUIRED BY CALCULATIONS.

9. ALL COLUMN BASE PLATES SHALL BE GROUTED IMMEDIATELY AFTER THE FRAME ERECTION IS COMPLETED AND PLUMBED, AND PRIOR TO APPLYING DECKING TO ROOF JOISTS.

1. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION AND SIZES OF SMALL MECHANICAL OPENINGS, SLEEVES, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ALL FINISHES, DIMENSIONS OF SLAB DROPS, CHAMFERS, ETC.
3. THE USE OF REPRODUCTIONS OF THE DESIGN STRUCTURAL DRAWINGS FOR SHOP DRAWING PURPOSES IS NOT ACCEPTABLE.
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.



 <p><b>MRB group</b> Engineering, Architecture &amp; Surveying 5250 South 31st Street, Temple, Texas 76780 Phone: 254-771-2054 Corporate Office: The Culver Road, Albany, LA 50534-8801 1000 Albany Road, Suite 100, Rochester, New York 14620 TBPET Firm Number: E-10015 <a href="http://www.mrbgroup.com">www.mrbgroup.com</a></p>			Project Title: <b>TOM GREEN COUNTY HARPER PARK IMPROVEMENTS WATER VALLEY, TEXAS</b>		
	Drawn By: CNC	Project Title: <b>FOUNDATION PLANS</b>			
	Checked By: RS				
	Scale: As indicated				
Date: 02/25/2020		Drawing Title: <b>FOUNDATION PLANS</b>		No. _____	Date _____
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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
	DOUBLE POLE, SINGLE THROW SWITCH, MOUNT 48" AFF. UON
	SINGLE POLE, DOUBLE THROW 3-WAY SWITCH, MOUNT 48" AFF. UON
	DOUBLE POLE, DOUBLE THROW 4-WAY SWITCH, MOUNT 48" AFF. UON
	FAN SPEED CONTROL RHEOSTAT, MOUNT 48" AFF. UON
	KEY OPERATED SWITCH, MOUNT 48" AFF. UON
	SINGLE POLE, SINGLE THROW SWITCH W/PILOT LIGHT, MOUNT 48" AFF. UON
	INTERVAL TIMER SWITCH, MOUNT 48" AFF. UON
	DIMMER SWITCH, 6=600W, 10=1000W, 15=1500W, 20=2000W, MOUNT 48" AFF. UON
	OCCUPANCY SENSOR SWITCH, MOUNT 48" AFF. UON
	LOCAL ROOM CONTROL FOR DIMMING AND/OR LIGHTING CONTROL SYSTEM
	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
BL	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
HDB	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
MIN	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	SPACES(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

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 GROUND. 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.



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

ELECTRICAL DRAWING INDEX

- E1.0 ELECTRICAL NOTES, SYMBOLS & ABBREVIATIONS
- E1.1 ELECTRICAL SPECIFICATIONS
- E2.0 ELECTRICAL SITE PLAN - DEMOLITION
- E2.1 ELECTRICAL SITE PLAN - NEW
- E2.2 ELECTRICAL ENLARGED SERVICE ENTRANCE PLANS AND PAVILION
- E3.0 ELECTRICAL ONE-LINE - DEMOLITION
- E3.1 ELECTRICAL ONE-LINE - NEW
- E4.0 ELECTRICAL SCHEDULES
- E5.0 ELECTRICAL DETAILS
- E5.1 ELECTRICAL DETAILS
- E5.2 ELECTRICAL DETAILS
- E5.3 ELECTRICAL DETAILS



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SKE PROJECT # 2320120

Project Title:  
**HARPER PARK IMPROVEMENTS  
WATER VALLEY  
TOM GREEN COUNTY, TEXAS**

Drawn By:  
AH

Checked By:  
TEV

Scale:  
PER TITLE

Date:  
05/13/2020

Project No.  
**2320120**

Sheet No.  
**E1.0**

Project No.  
**2054.19002**

Revisions and Descriptions:  
By  
Date

No.  
By  
Date

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**1 ELECTRICAL SITE PLAN - DEMOLITION**  
E2.0 SCALE: 1" = 40'



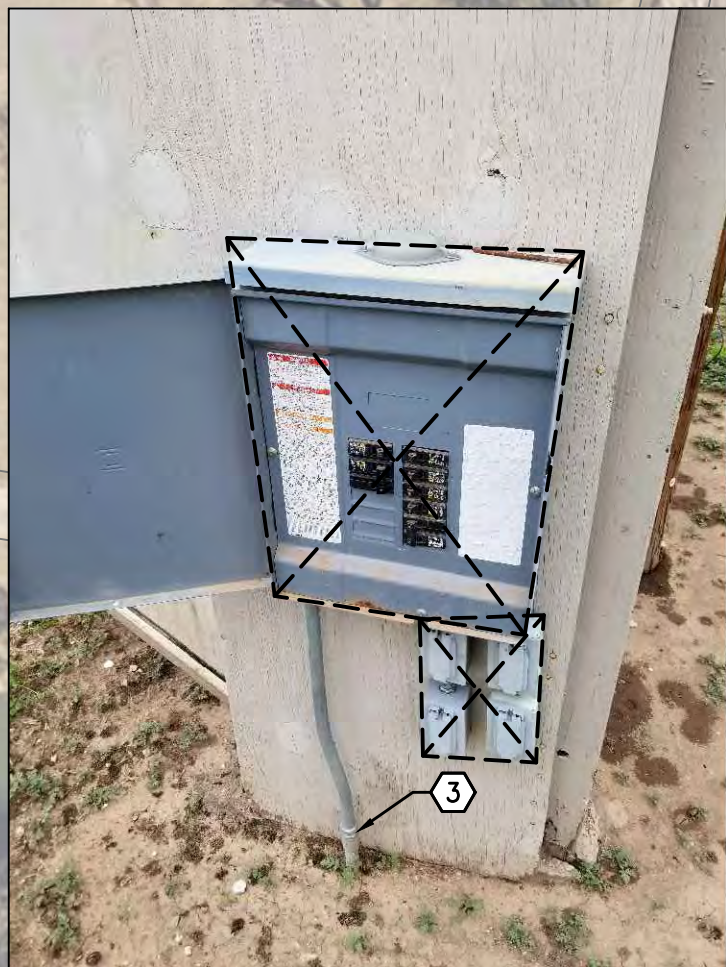
**6 PHOTO - DEMOLITION 4**  
E2.0 SCALE: NTS



**5 PHOTO - DEMOLITION 1**  
E2.0 SCALE: NTS



**4 PHOTO - DEMOLITION 6**  
E2.0 SCALE: NTS



**3 PHOTO - DEMOLITION 2**  
E2.0 SCALE: NTS



**2 PHOTO - DEMOLITION**  
E2.0 SCALE: NTS

**REFERENCE NOTES**

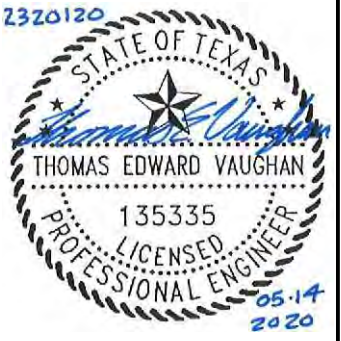
- EXISTING RV PEDESTAL TO BE DEMOLISHED AND REPLACED. TYPICAL OF 20.
- EXISTING PANELBOARD AND FOUR (4) RECEPTACLES TO BE DEMOLISHED.
- EXISTING RACEWAY FEEDS EXISTING SITE LIGHT AT DUMPSTER ENCLOSURE. DEMOLISH EXISTING CONDUCTORS IN EXISTING RACEWAY. RACEWAY TO BE ABANDONED IN PLACE AND THE ENDS SHALL BE CUT 6" BFG AND COVERED.
- EXISTING LIGHT FIXTURE AT DUMPSTER TO BE DEMOLISHED AND REPLACED WITH SOLAR LIGHT.
- EXISTING 150A/2P CIRCUIT BREAKER THAT FEEDS BUILDING TO BE DEMOLISHED. ASSOCIATED RACEWAY AND CONDUCTORS TO REMAIN AND BE RECONNECTED TO NEW BRANCH CIRCUIT BREAKER.
- EXISTING 400A MAIN CIRCUIT BREAKER, THREE (3) 200A CIRCUIT BREAKERS, AND ONE (1) 150A CIRCUIT BREAKER TO BE DEMOLISHED. COORDINATE REMOVAL AND REPLACEMENT OF EXISTING METER WITH CONCHO VALLEY ELECTRIC COOPERATIVE AT (325) 655-6957, MICHAEL LONG, MLONG@CVEC.COOP. EXISTING ABOVEGROUND RACEWAYS AND ALL ASSOCIATED CONDUCTORS SHALL BE DEMOLISHED. EXISTING UNDERGROUND RACEWAYS ASSOCIATED WITH THIS EQUIPMENT SHALL BE ABANDONED IN PLACE AND THE ENDS SHALL BE CUT 6" BFG AND COVERED. EXISTING WOOD STRUCTURE SHALL BE DEMOLISHED.



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**HARPER PARK IMPROVEMENTS  
WATER VALLEY  
TOM GREEN COUNTY, TEXAS**

**ELECTRICAL  
SITE PLAN - DEMOLITION**



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**3** PANELBOARD LV1  
E2.1 SCALE: NTS



**2** PANELBOARD LV1  
E2.1 SCALE: NTS



**1** ELECTRICAL SITE PLAN - NEW  
E2.1 SCALE: 1" = 40'

REFERENCE NOTES

- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL UTILITY COMPANY [CONCHO VALLEY ELECTRICAL COOPERATIVE, MICHAEL LONG, MLONG@CVRC.COOP, (325) 655-6957] TO PROVIDE AND INSTALL 600A, 120/240V, 1 PHASE, 3 WIRE ELECTRIC SERVICE.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL UTILITY COMPANY [CONCHO VALLEY ELECTRICAL COOPERATIVE, MICHAEL LONG, MLONG@CVRC.COOP, (325) 655-6957] TO PROVIDE AND INSTALL NEW 300A, 120/240V, 1 PHASE, 3 WIRE ELECTRIC SERVICE.
- PROVIDE AND INSTALL LIGHT POLE. REFER TO DETAIL 3/E5.0. TYPICAL.
- PROVIDE AND INSTALL 120/240V/1PH/3W, R/V PEDESTAL ELECTRICAL BOX IN NEMA-3R RAINPROOF ENCLOSURE WITH THE FOLLOWING:  
(1) 14-50R, 50 AMP  
(1) TT30R, 30 AMP  
(1) 5-20R2GFI, 20 AMP  
GE MODEL #GE1LU532PS, OR EQUAL. TYPICAL. REFER TO DETAIL 3/E5.1.
- PROVIDE AND INSTALL EQUIPMENT RACK PER DETAIL 1/E5.1 AND 2/E5.1.
- FOR UNDERGROUND DUCT BANKS DETAILS REFER TO SHEETS E5.2 AND E5.3 TYPICAL.
- PROVIDE AND INSTALL THREE (3) NEW 20A/1P CIRCUIT BREAKER IN EXISTING PANELBOARD LOCATED IN LARGE RENTAL BUILDING FOR NEW PAVILION CIRCUITS. REFER TO PHOTOS, 2/E2.1 AND 3/E2.1.
- PROVIDE AND INSTALL NEW PULLBOX, 24"X24"X24", QUAZITE OR EQUAL, TYPICAL.
- DUCTBANK BELOW ROADWAYS SHALL BE CONCRETE. REFER TO SHEETS E5.2 AND E5.3.

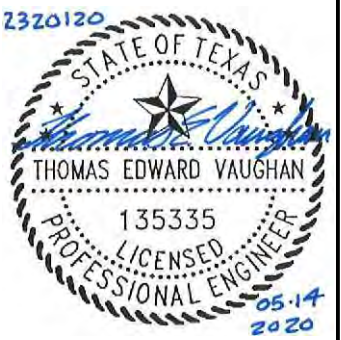


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SKE PROJECT # 2320120

Project Title: **HARPER PARK IMPROVEMENTS  
WATER VALLEY  
TOM GREEN COUNTY, TEXAS**

Drawing Title: **ELECTRICAL  
SITE PLAN - NEW**

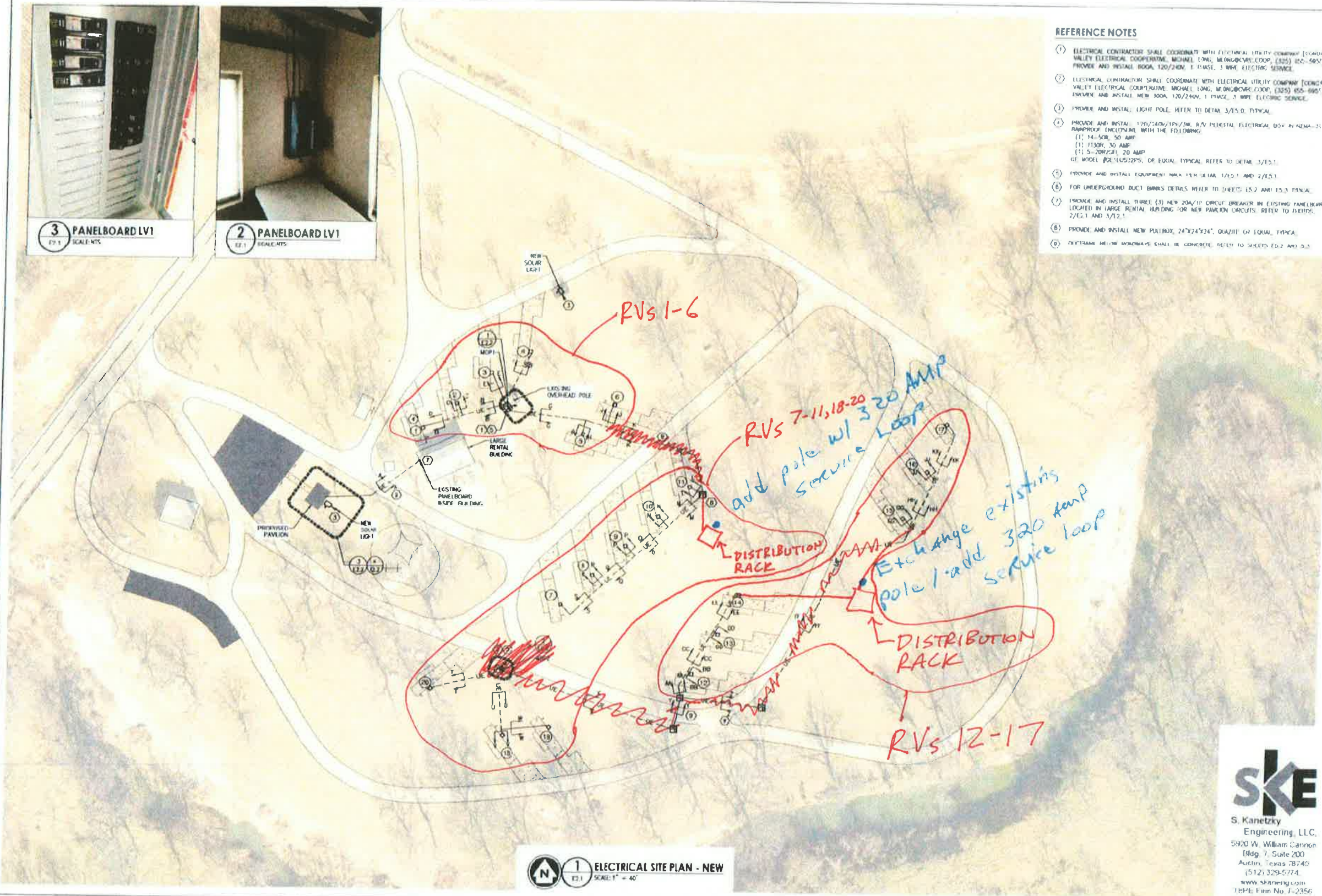
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Sheet No. **E2.1**  
of  
Project No. **2054.19002**





- REFERENCE NOTES**
- (1) ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL UTILITY COMPANY [CONCHO VALLEY ELECTRICAL COOPERATIVE, MICHAEL LONG, 4000 W. 10TH ST., DALLAS, TX 75201] TO PROVIDE AND INSTALL 300A, 120/240V, 1 PHASE, 3 WIRE, ELECTRIC SERVICE.
  - (2) ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL UTILITY COMPANY [CONCHO VALLEY ELECTRICAL COOPERATIVE, MICHAEL LONG, 4000 W. 10TH ST., DALLAS, TX 75201] TO PROVIDE AND INSTALL 300A, 120/240V, 1 PHASE, 3 WIRE, ELECTRIC SERVICE.
  - (3) PROVIDE AND INSTALL LIGHT POLE, REFER TO DETAIL 3/15.0, TYPICAL.
  - (4) PROVIDE AND INSTALL 120/240V/1PH/3W, R/V PNEUMATIC ELECTRICAL BOX IN AREA-21. RAMPPOOF ENCLOSURE WITH THE FOLLOWING:  
(1) 14-50L, 50 AMP  
(1) 150L, 50 AMP  
(1) 5-200V/1PH, 20 AMP  
SEE MODEL 1001/1002/1003, OR EQUAL, TYPICAL, REFER TO DETAIL 3/15.1.
  - (5) PROVIDE AND INSTALL EQUIPMENT RACK PER DETAIL 1/15.1 AND 2/15.1.
  - (6) FOR UNDERGROUND DUCT BANKS DETAILS REFER TO SHEETS E5.2 AND E5.3 TYPICAL.
  - (7) PROVIDE AND INSTALL THREE (3) NEW 20A/1P CIRCUIT BREAKER IN EXISTING PANELBOARD LOCATED IN LARGE RENTAL BUILDING FOR NEW PAVILION CIRCUITS. REFER TO DETAILS 2/12.1 AND 3/12.1.
  - (8) PROVIDE AND INSTALL NEW PAVILION, 24'x24'x24', QUADRI OR EQUAL, TYPICAL.
  - (9) DETERMINE NEW/OLD ROADWAYS SHALL BE CONCRETE, REFER TO SHEETS E5.2 AND E5.3.

**1 ELECTRICAL SITE PLAN - NEW**  
E2.1 SCALE: 1" = 40'

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SKE PROJECT # 0009120

**HARPER PARK IMPROVEMENTS  
WATER VALLEY  
TOM GREEN COUNTY, TEXAS**


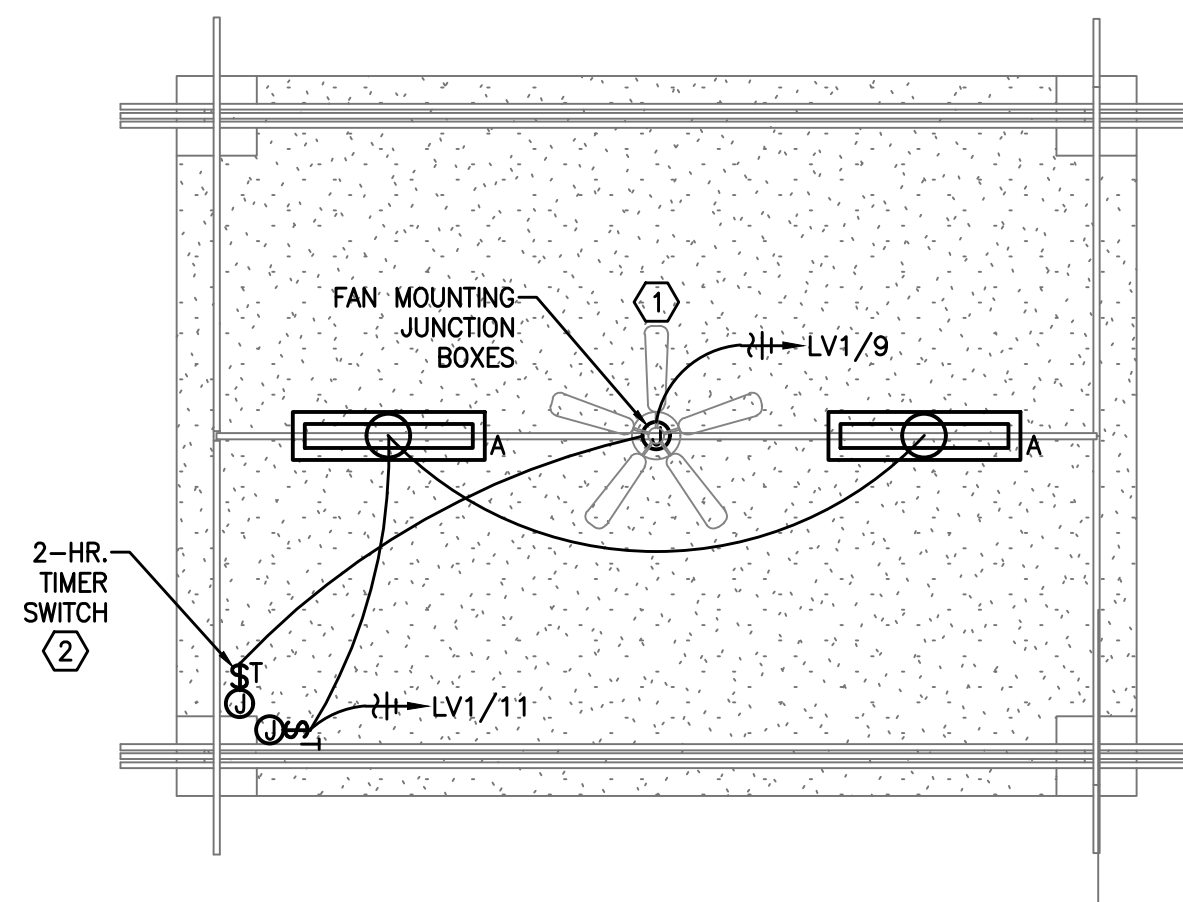
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**2054.19002**

**ELECTRICAL  
SITE PLAN - NEW**



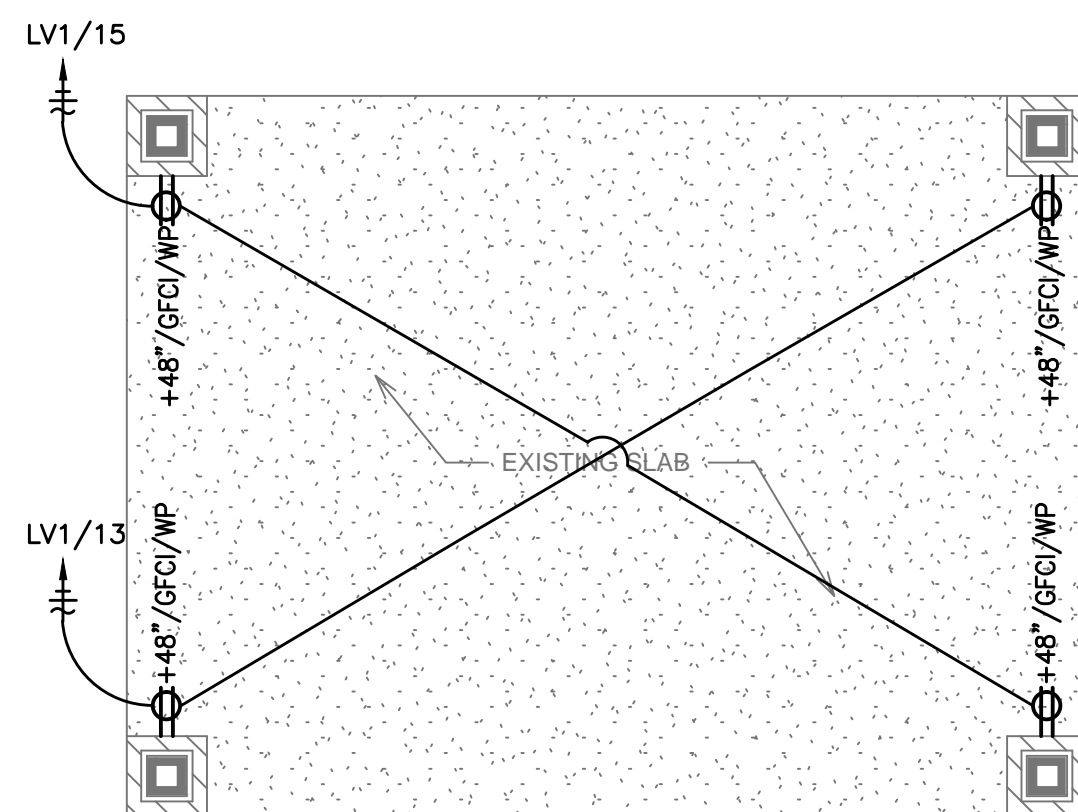


4

PAVILION CEILING

E2.2

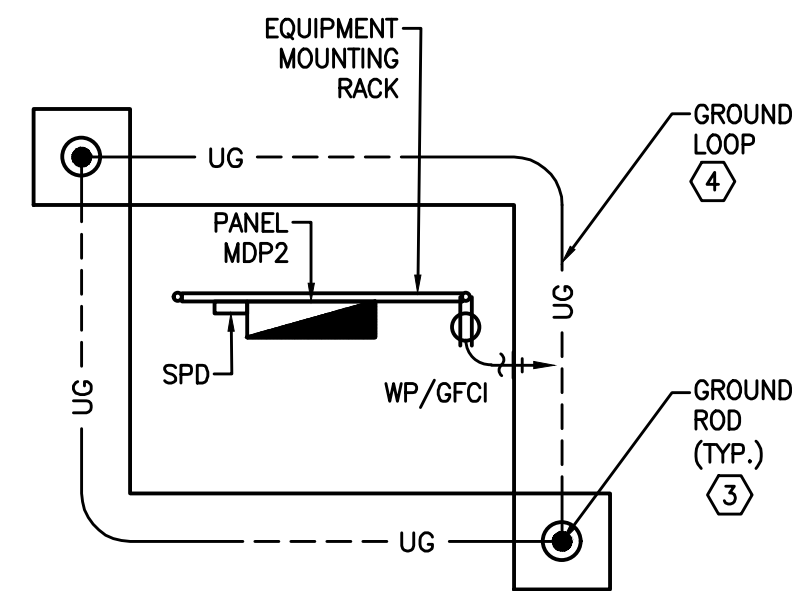
SCALE: 1/4" = 1'-0"



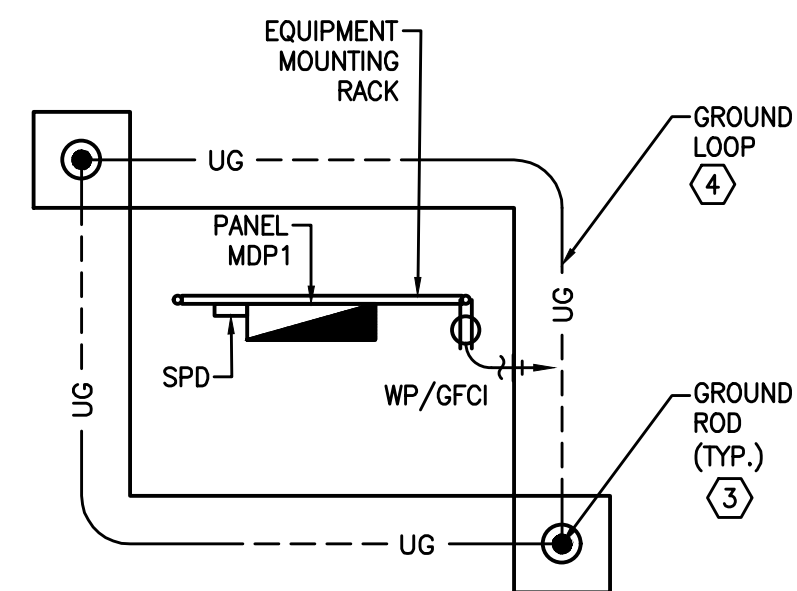
**3**  
E2.2

**PAVILION FLOOR PLAN**

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



 **2** **ELECTRICAL - ENLARGED SERVICE ENTRANCE #2 PLAN**  
E2.2 SCALE: 1/4" = 1'-0"




 **1** **ELECTRICAL - ENLARGED SERVICE ENTRANCE #1 PLAN**  
E2.2 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.
- ③ PROVIDE AND INSTALL GROUND RODS. REFER TO DETAIL 1/E5.0.
- ④ PROVIDE AND INSTALL #3/0 BARE COPPER GROUNDING RING. BOND, EQUIPMENT RACKS TO GROUNDING ELECTRODE SYSTEM VIA EXOTHERMIC WELD.



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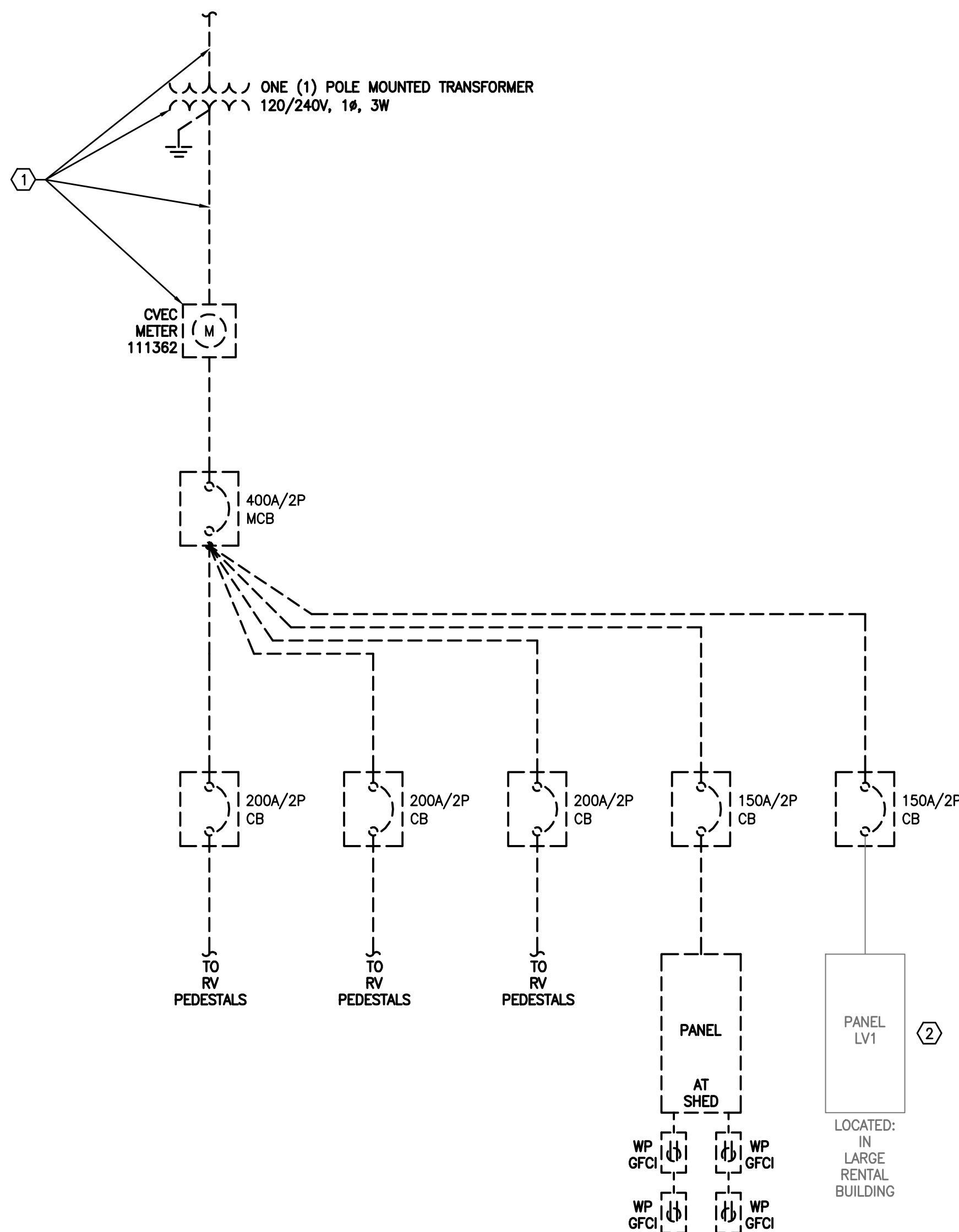
Sheet No. **E2.2**

Project No. **2054.19002**

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Scale:	
Sheet No: PER TITLE	
Date: 05/12/2020	<b>Drawing Title:</b> <b>ELECTRICAL ENLARGED</b> <b>SERVICE ENTRANCE PLANS AND PAVILION</b>

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## REFERENCE NOTES

- ① COORDINATE SERVICE UPGRADE WITH CONCHO VALLEY ELECTRIC UTILITY AT (325) 655-6957. REFER TO SHEET E3.1 FOR ADDITIONAL INFORMATION.
- ② EXISTING PANEL LV1 IN LARGE RENTAL BUILDING, AND ASSOCIATED RACEWAY AND CONDUCTORS TO REMAIN. RE-TERMINATE TO NEW PANEL MDP AS SHOWN ON SHEET E3.1.



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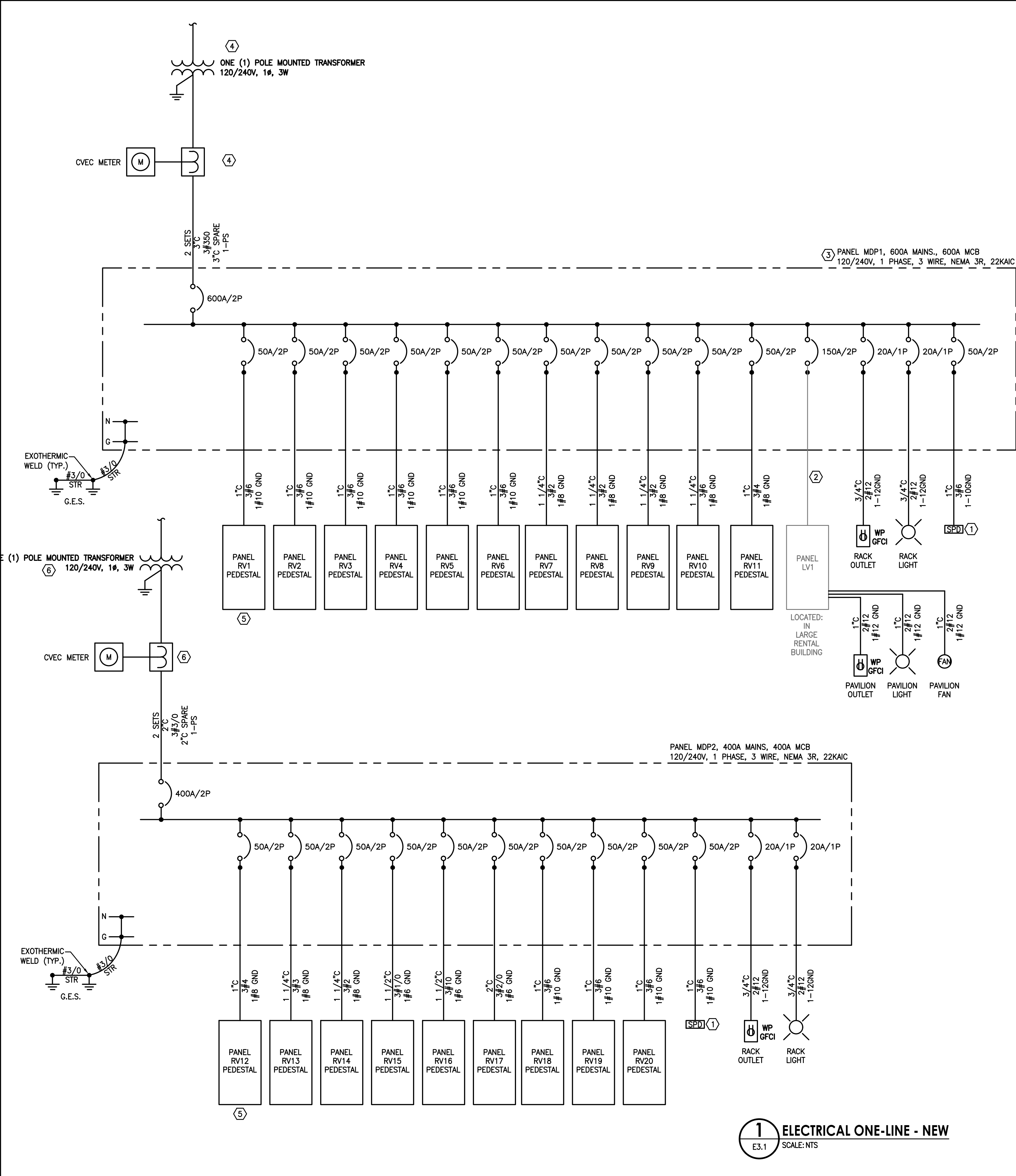
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THOMAS EDWARD VAUGHAN  
135335  
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PROFESSIONAL ENGINEER  
05-14  
2020

Project Title:	<b>HARPER PARK IMPROVEMENTS WATER VALLEY TOM GREEN COUNTY, TEXAS</b>		
Drawing Title:	<b>ELECTRICAL ONE-LINE - DEMOLITION</b>		
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05/13/2020	05/13/2020		

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Date: 05/13/2020 12:09:49 PM  
Author: SKE  
Project: Harper Park Improvements Water Valley Tom Green County, Texas  
Date: 05/13/2020 12:09:49 PM  
Author: SKE



REFERENCE NOTES

- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL NEW SPD, EATON SPD-200-240S-3-N OR EQUAL IN A NEMA 4 ENCLOSURE. CONNECT TO LOAD SIDE.
- RE-TERMINATE EXISTING CONDUCTORS FEEDING LV1 TO NEW 150A/2P BRANCH CIRCUIT BREAKER IN PANEL MDP. PROVIDE NEW RACEWAY AND CONDUCTORS AS NEEDED, IN KIND.
- PROVIDE AND INSTALL NEW 600A 120/240V/1P/3W PANELBOARD WITH 600A/2P MCB AND BRANCH CIRCUIT BREAKERS AS SHOWN. REFER TO SHEET EX.X FOR DETAILS.
- COORDINATE SERVICE UPGRADE WITH CONCHO VALLEY ELECTRIC COOPERATIVE AT (325) 655-6957.
- PROVIDE AND INSTALL 50A RV PEDESTALS. TYPICAL OF 20. SPECIFIED IN KEYNOTE 4, SHEET E2.1.
- COORDINATE NEW SERVICE WITH CONCHO VALLEY ELECTRIC COOPERATIVE AT (325) 655-6957.



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Project Title: HARPER PARK IMPROVEMENTS WATER VALLEY TOM GREEN COUNTY, TEXAS		Drawing Title: ELECTRICAL ONE-LINE - NEW	
Drawn By: AH	Checked By: TEV	Scale: PER TITLE	Date: 05/13/2020
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Sheet No. E3.1		Project No. 2054.19002	



LIGHTING FIXTURE SCHEDULE									
TYPE	MANUFACTURER	CATALOG NO.	QTY	LAMP TYPE	WATTS	FIX. WATTS	VOLTS	MOUNTING	REMARKS
A	LITHONIA	FEM L48 4000LM IMAFD MD MVOLT GZ10 40K 80CRI		LED		31	120	SURFACE	HIGH-EFFICIENCY LED. SUITABLE FOR WET, DAMP, AND/OR COLD LOCATIONS.
P	SELUX	DSCLS-R5-1-L6S-50 SOLAR		LED		65	12	POLE	BRONZE FINISH. COORDINATE BATTERIES, PANEL, & OPERATION PROFILE WITH OWNER. #ST747 (16" ROUND STEEL POLE)

MDP1 LOAD CALC ELECTRICAL LOAD ANALYSIS								
LOAD	QTY	MIN. WATT/S.F.	KVA	AMPS	DEMAND FACTOR	ESTIMATED DEMAND: KVA	DEMAND AMPS	2017 NEC
1. EQUIPMENT LOAD:								
A. RV PEDESTALS 50A	11		132	550	0.50	66	275	551.73(A)
B. LV1/MISC			28.8	120			120	
2. TOTAL CONNECTED LOAD: KVA							395	
3. 25% SPARE							99	
4. TOTAL AMP LOAD AT 120/240 VOLT, 1 PHASE, 3 WIRE							494	

MDP2 LOAD CALC ELECTRICAL LOAD ANALYSIS								
LOAD	QTY	MIN. WATT/S.F.	KVA	AMPS	DEMAND FACTOR	ESTIMATED DEMAND: KVA	DEMAND AMPS	2017 NEC
1. EQUIPMENT LOAD:								
A. RV PEDESTALS 50A	9		108	450	0.55	59	248	551.73(A)
							0	
2. TOTAL CONNECTED LOAD: KVA							248	
3. 25% SPARE							62	
4. TOTAL AMP LOAD AT 120/240 VOLT, 1 PHASE, 3 WIRE							309	

PANEL MDP1 (NEW)														
AMPS: 600A MCB			PHASE: 1			MOUNTING: SURFACE								
VOLTAGE: 120/240V			WIRE: 3			MINIMUM AIC RATING: 22 KAIC								
LOCATION: RACK						BUSSING: COPPER								
FED FROM: UTILITY TRANSFORMER						NEMA: 3R								
CKT. NO.	SERVICE DESCRIPTION	WIRE	BKR	POLES	KVA	A	B	KVA	POLES	BKR	WIRE	SERVICE DESCRIPTION	CKT. NO.	
1	PANEL RV1	6	50	2	3.0	6.0		3.0	2	50	6	SPD	2	
3					3.0			6.0	3.0				4	
5	PANEL RV3	6	50	2	3.0	6.0		3.0	2	50	6	PANEL RV2	6	
7					3.0			6.0	3.0				8	
9	PANEL RV5	6	50	2	3.0	6.0		3.0	2	50	6	PANEL RV4	10	
11					3.0			6.0	3.0				12	
13	PANEL RV7	6	50	2	3.0	6.0		3.0	2	50	6	PANEL RV6	14	
15					3.0			6.0	3.0				16	
17	PANEL RV9	6	50	2	3.0	6.0		3.0	2	50	6	PANEL RV8	18	
19					3.0			6.0	3.0				20	
21	PANEL RV11	6	50	2	3.0	6.0		3.0	2	50	6	PANEL RV10	22	
23					3.0			6.0	3.0				24	
25	RACK OUTLET	12	20	1	0.5	0.6		0.1	1	20	12	RACK LIGHTS	26	
27	SPARE		20	1	0.0			0.0	0.0	2	50	SPARE	28	
29	SPARE		20	1	0.0	0.0		0.0					30	
31	SPARE		20	1	0.0			0.0	0.0				32	
33	SPARE		20	1	0.0	0.0		0.0					34	
35	SPARE		20	1	0.0			0.0	0.0				36	
37	SPARE		20	1	0.0	0.0		0.0					38	
39	PANEL LV1 (LGE. RNTL BLDG)	150	2	14.4	14.4	50.4		14.4	0.0				40	
41					14.4	14.4		0.0					42	
					PHASE LOAD IN KVA:		51.0 50.4							
					PHASE LOAD IN AMPS:		425 420							
NOTE: SQUARE D NQ OR EQUAL														

PANEL MDP2 (NEW)														
AMPS: 400A MCB			PHASE: 1			MOUNTING: SURFACE								
VOLTAGE: 240/120V			WIRE: 3			MINIMUM AIC RATING: 22 KAIC								
LOCATION: RACK						BUSSING: COPPER								
FED FROM: UTILITY TRANSFORMER						NEMA: 3R								
CKT. NO.	SERVICE DESCRIPTION	WIRE	BKR	POLES	KVA	A	B	KVA	POLES	BKR	WIRE	SERVICE DESCRIPTION	CKT. NO.	
1	PANEL RV11	6	50	2	3.0	6.0		3.0	2	50	6	PANEL RV12	2	
3					3.0		6.0	3.0					4	
5	PANEL RV13	6	50	2	3.0	6.0		3.0	2	50	6	PANEL RV14	6	
7					3.0		6.0	3.0					8	
9	PANEL RV15	6	50	2	3.0	6.0		3.0	2	50	6	PANEL RV16	10	
11					3.0		6.0	3.0					12	
13	PANEL RV17	6	50	2	3.0	6.0		3.0	2	50	6	PANEL RV18	14	
15					3.0		6.0	3.0					16	
17	PANEL RV19	6	50	2	3.0	6.0		3.0	2	50	6	PANEL RV10	18	
19					3.0		6.0	3.0					20	
21	RACK OUTLET	12	20	1	0.5	0.6		0.1	1	20	12	RACK LIGHTS	22	
23	SPARE		20	1	0.0		0.0	0.0	2	50		SPARE	24	
25	SPARE		20	1	0.0	0.0		0.0					26	
27	SPARE		20	1	0.0		0.0	0.0					28	
29	SPARE		20	1	0.0	0.0		0.0					30	
31	SPARE		20	1	0.0		0.0	0.0					32	
33	SPARE		20	1	0.0	0.0		0.0					34	
35	SPARE		20	1	0.0		0.0	0.0					36	
37	SPARE		20	1	0.0	0.0		0.0					38	
39	SPARE		20	1	0.0		0.0	0.0					40	
41	SPARE		20	1	0.0	0.0		0.0					42	
					PHASE LOAD IN KVA:		30.6	30.0						
					PHASE LOAD IN AMPS:		255	250						
NOTE: SQUARE D NQ OR EQUAL														

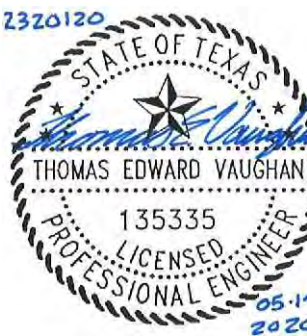


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ELECTRICAL SCHEDULES

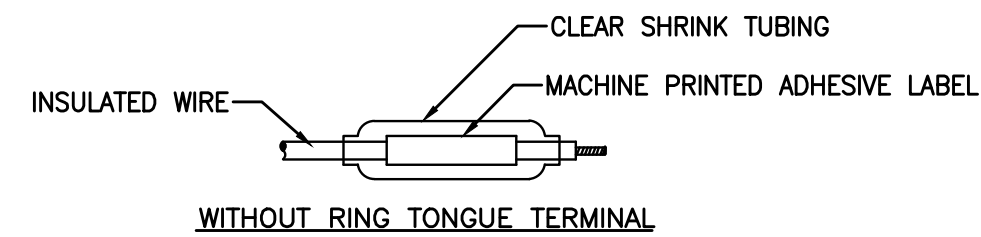
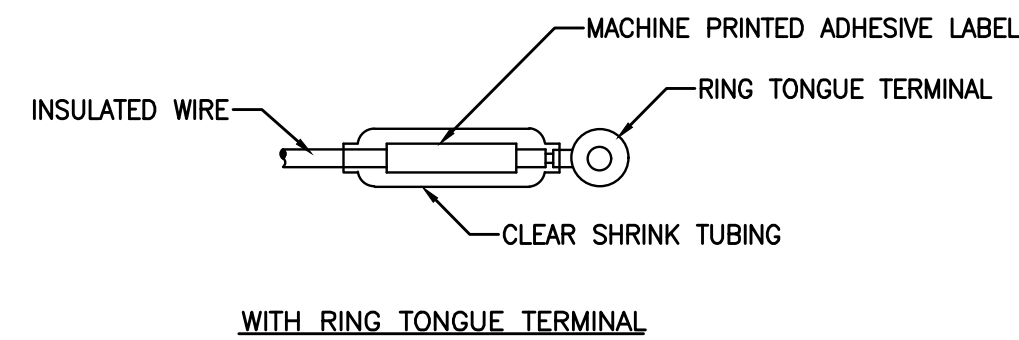
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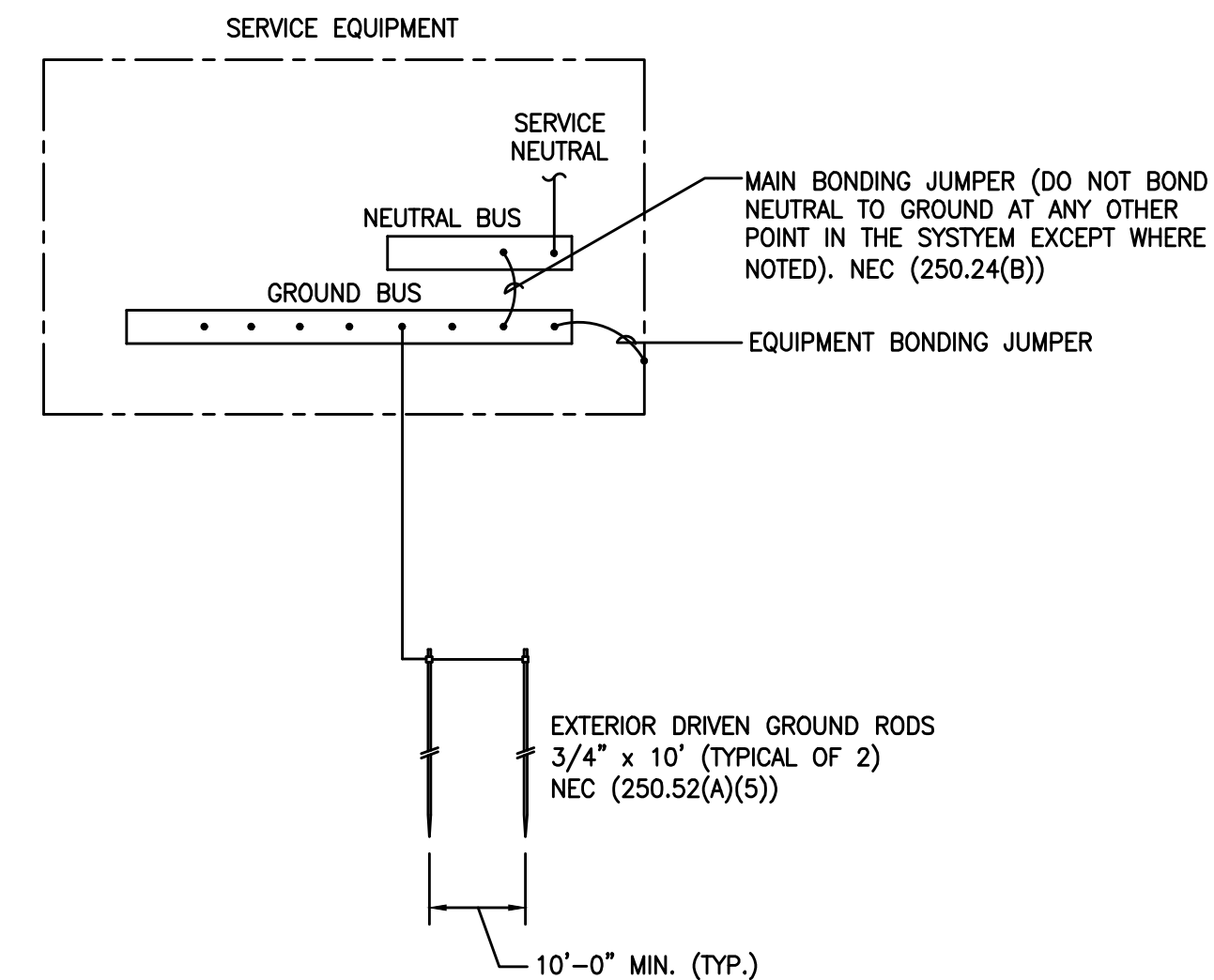
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E4.0  
Project No.  
2054.19002



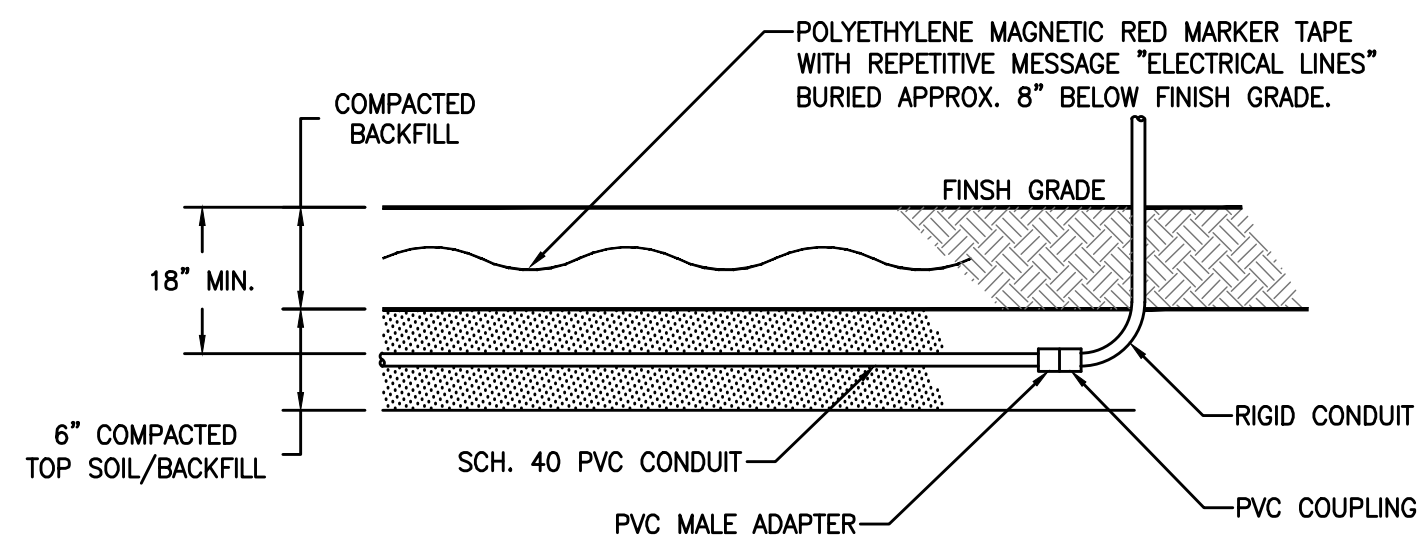
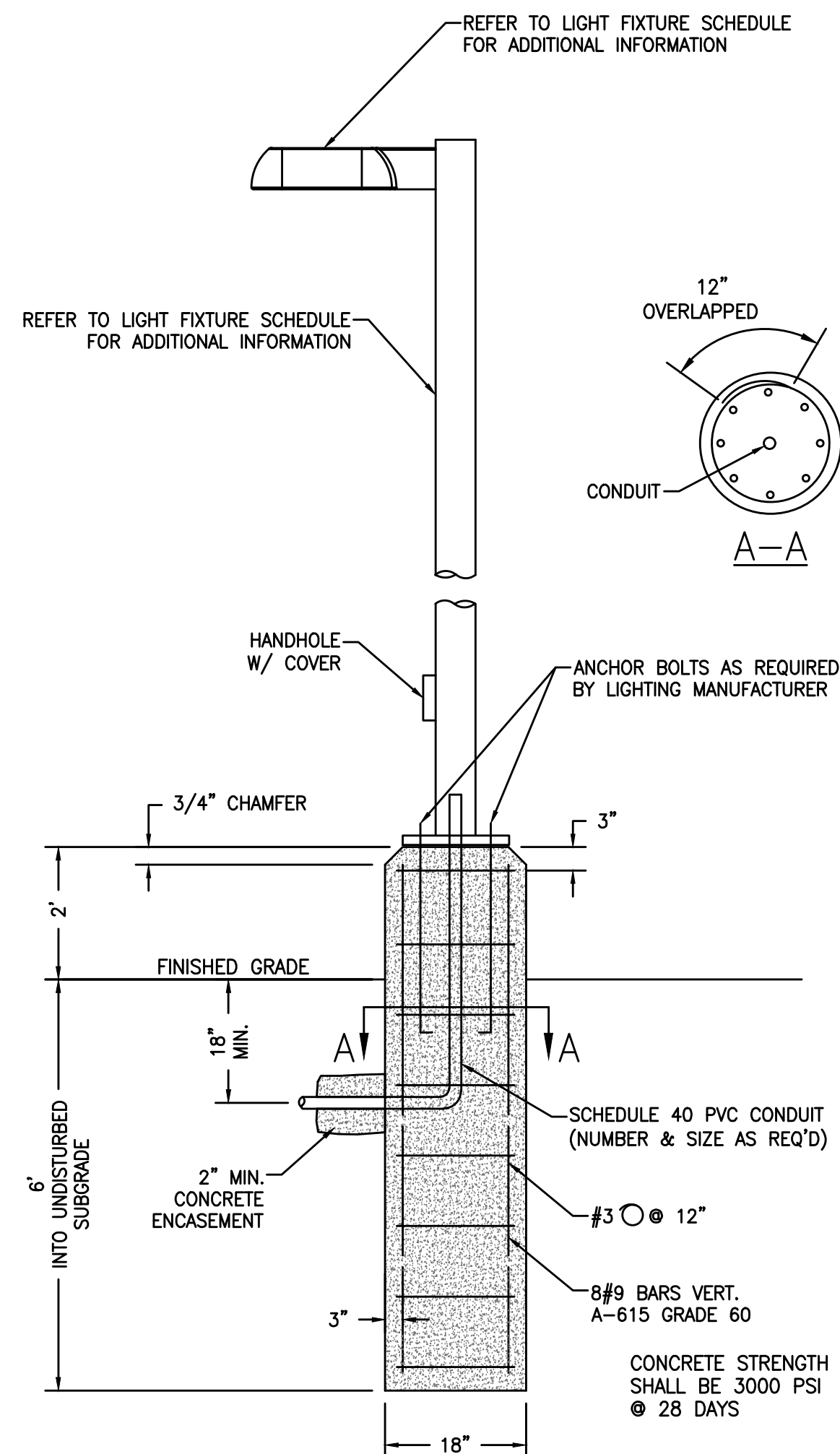


WHERE POSSIBLE RING TERMINALS SHALL BE USED. ONE OF THE ABOVE METHODS MUST BE USED ON ALL WIRE #8 AWG & SMALLER. THE SAME MUST ALSO BE USED ON LARGER WIRE UNLESS AN ALTERNATE METHOD IS SUBMITTED & APPROVED.

## 4 DETAIL - WIRE TERMINATION AND MARKING

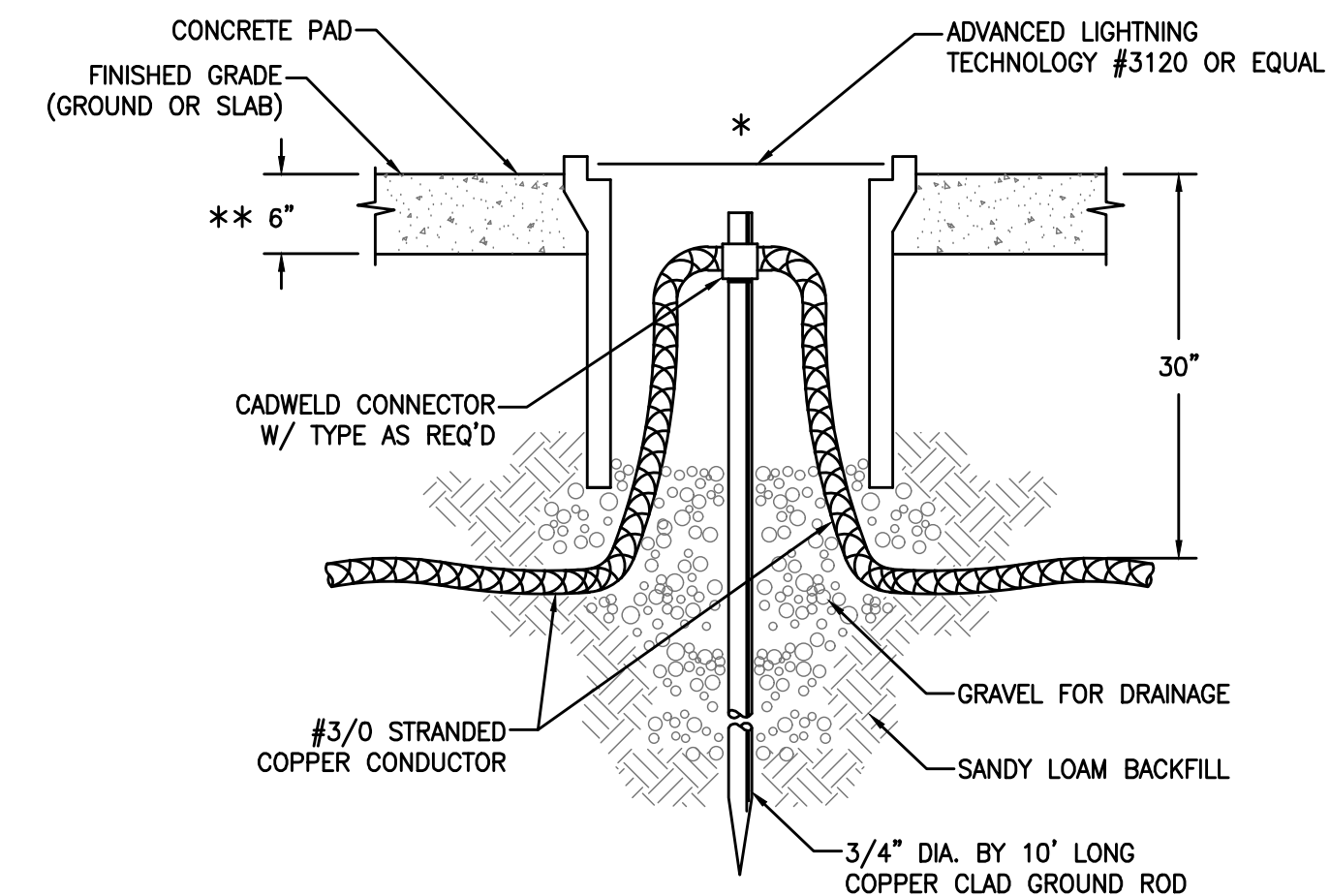


**2** **GROUNDING ELECTRODE SYSTEM (TYP.)**  
E5.0 SCALE: NTS



**5** **DETAIL - TYPICAL UNDERGROUND CONDUIT RUN**  
E5.0 SCALE: NTS

**3** DETAIL - POLE MOUNTED SOLAR LIGHTING FIXTURE  
E5.0 SCALE: NTS



\* INSTALL GROUND RODS AWAY FROM HEAVY TRAFFIC AREAS AND SIDEWALKS. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS.

\*\* INSTALL 2'X2'X6" CONCRETE PAD.

**1** **DETAIL - 3/4" X 10' GROUND ROD**  
E5.0 SCALE: NTS

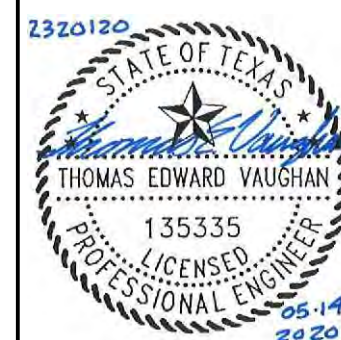


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## ELECTRICAL DETAILS

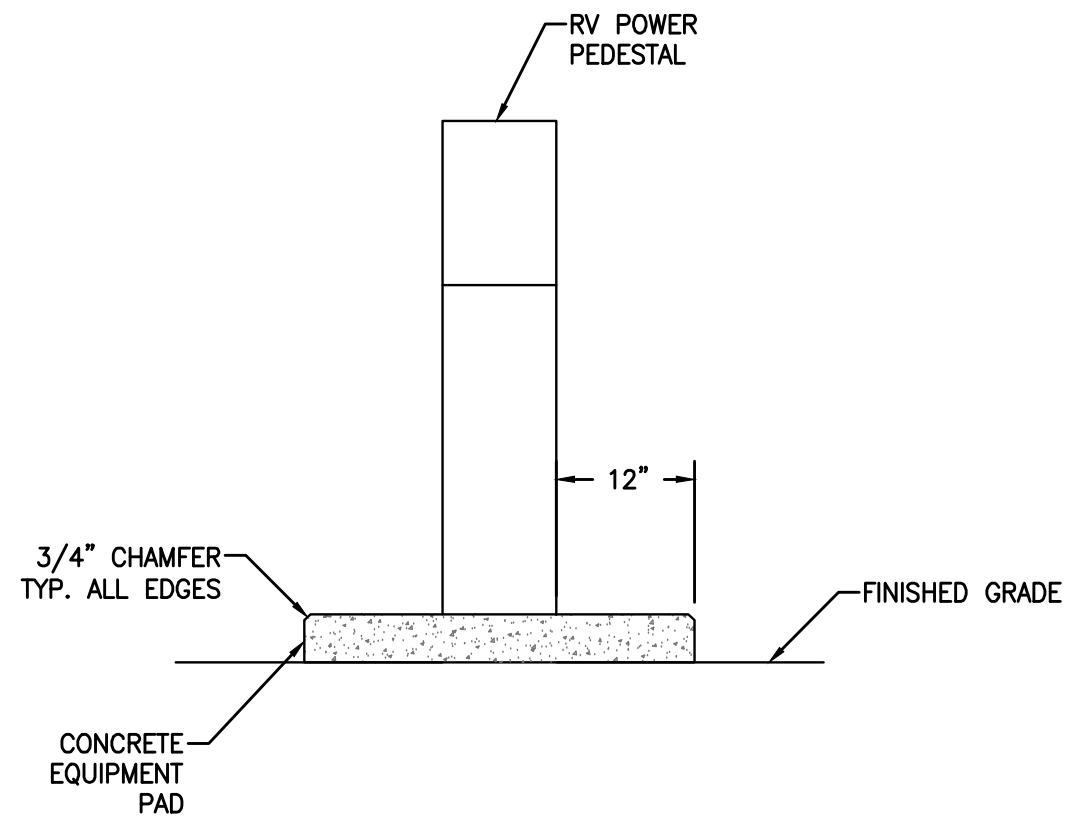
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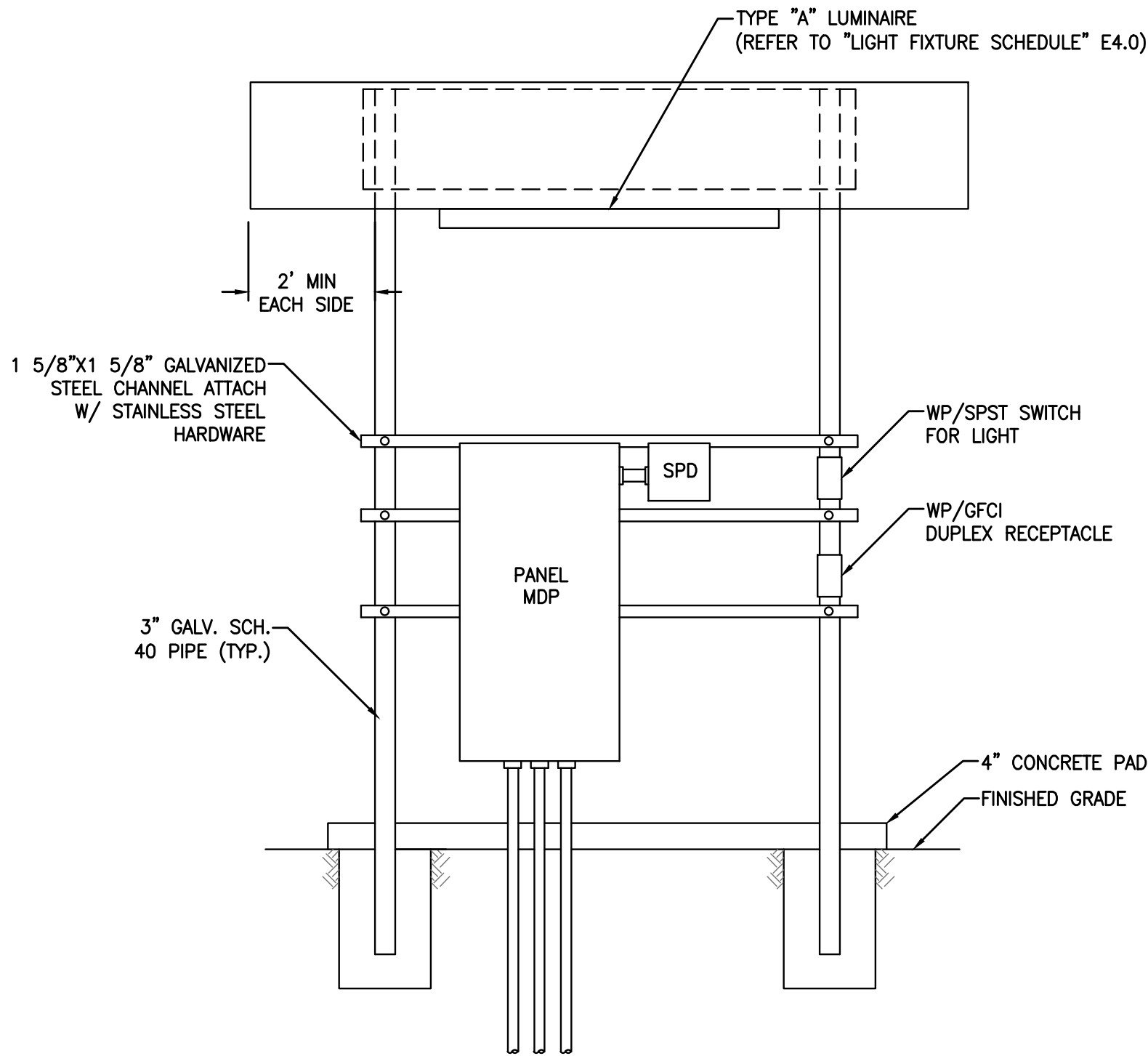
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Sheet No.  
**E5.0**  
\_\_\_\_\_ of \_\_\_\_\_  
Project No.  
**2054.19002**

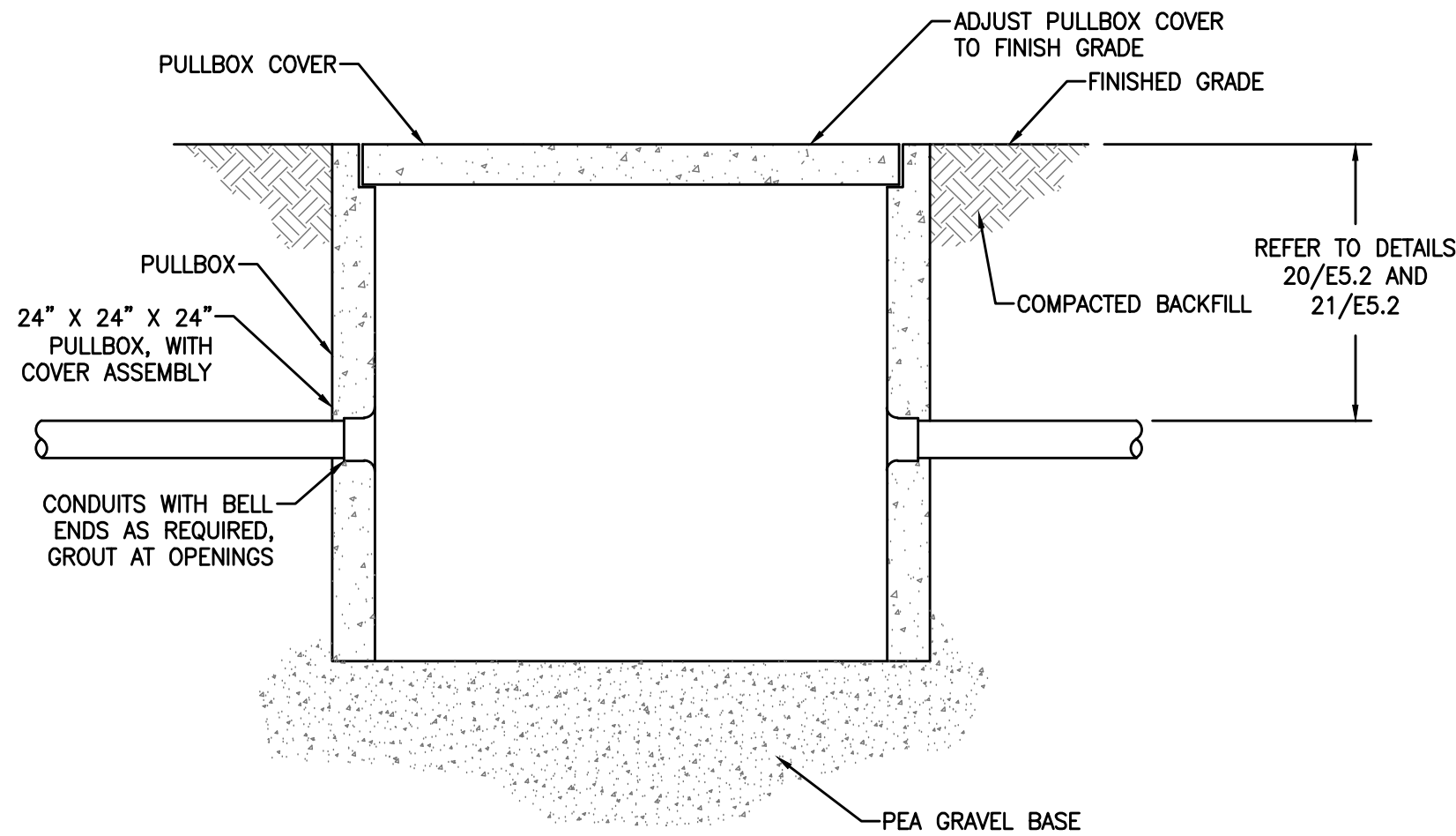




**3** DETAIL - RV POWER PEDESTAL - TYPICAL  
E5.1 SCALE: NTS

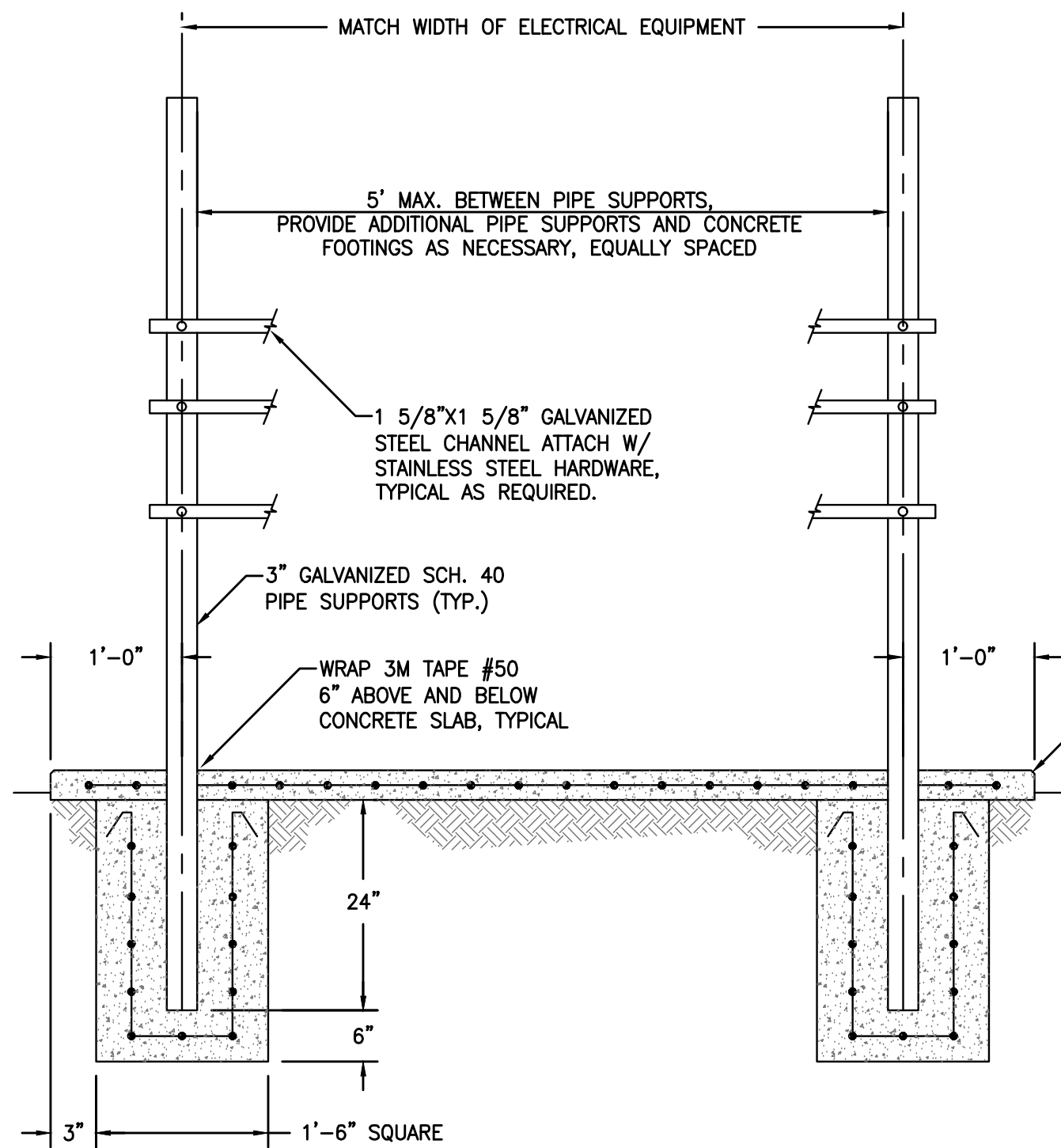
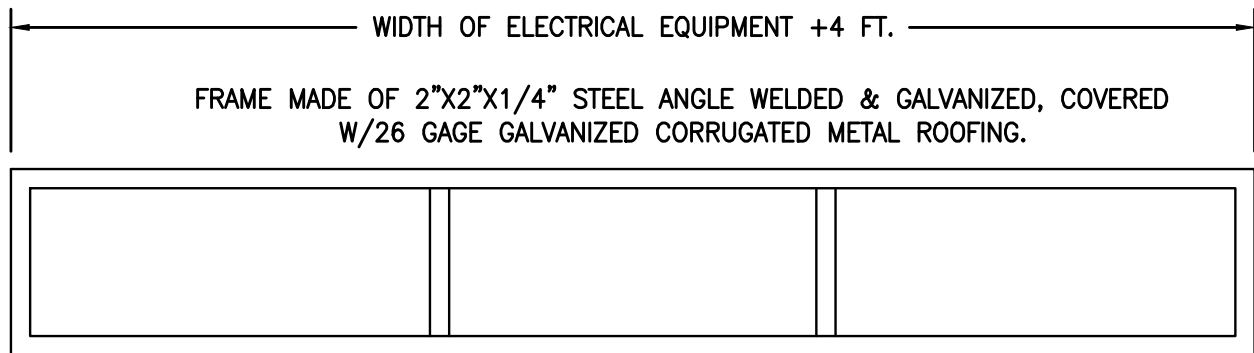


**2** DETAIL - ELECTRICAL EQUIPMENT INSTALLATION - TYPICAL  
E5.1 SCALE: NTS



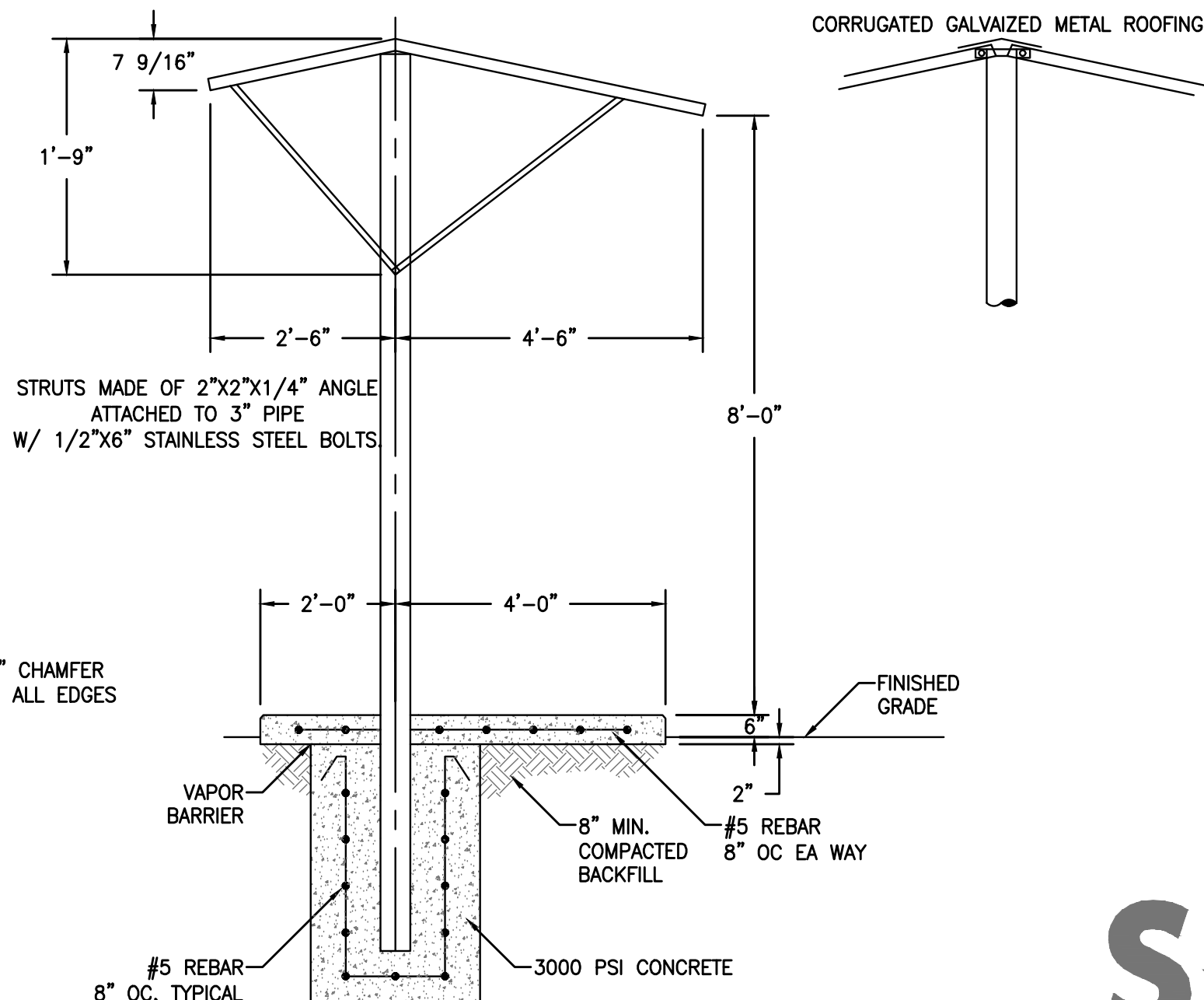
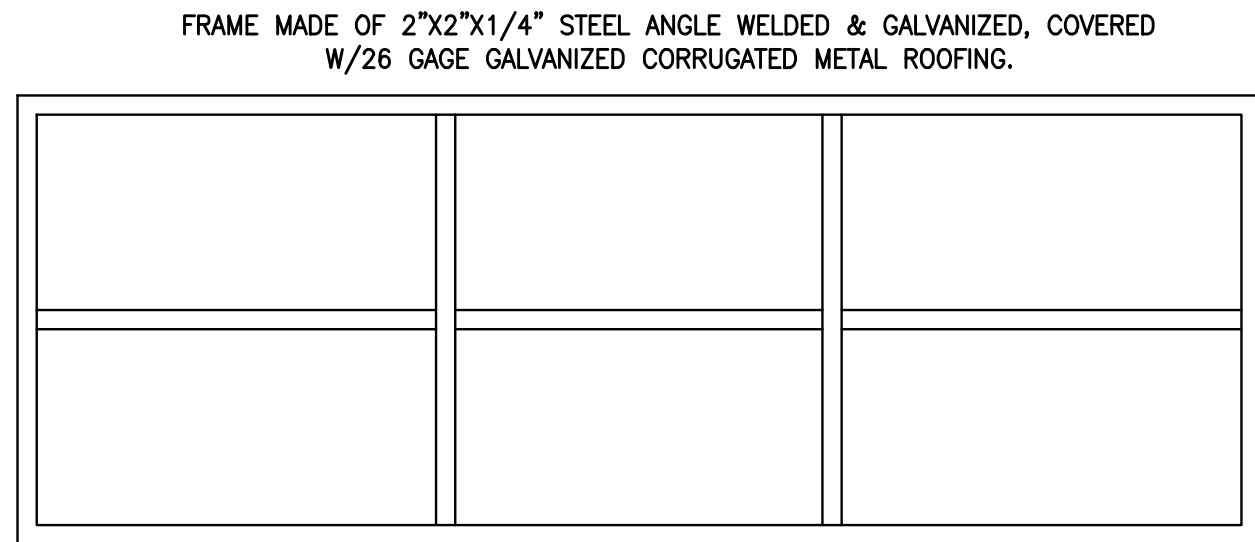
NOTE: ALL CONDUIT ENTERING PULLBOXES MUST DRAIN TO PULL BOXES

**4** DETAIL - PULL BOX  
E5.1 SCALE: NTS



NOTE:  
ALL FABRICATED STEEL COMPONENTS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION. ALL FASTENERS SHALL BE STAINLESS STEEL.

**1** DETAIL - TYPICAL RACK SUPPORT  
E5.1 SCALE: NTS



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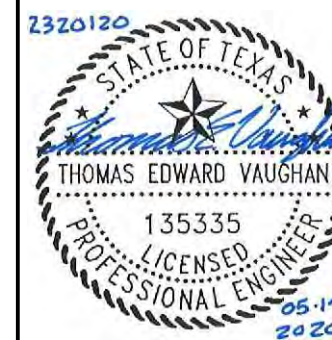
## REFERENCE NOTES

① SPECIFICATION FOR RV PEDESTAL ON SHEET E2.1, KEYNOTE 4.

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Drawing Title: **ELECTRICAL DETAILS**

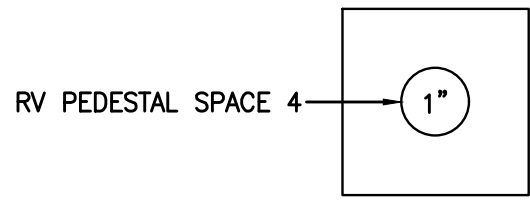
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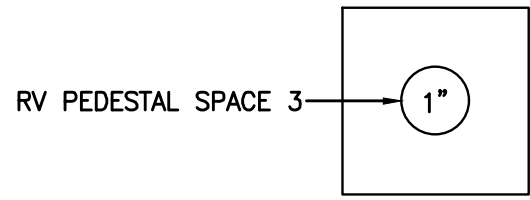
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Sheet No. **E5.1**  
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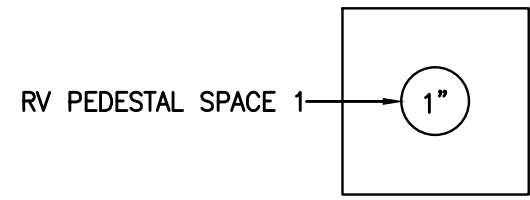




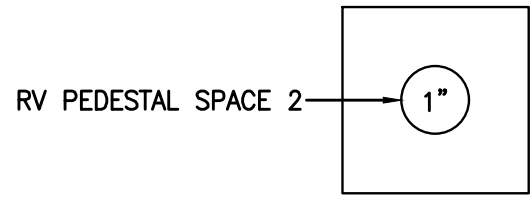
**6** **DETAIL - TRENCH SECTION F-F** ①  
E5.2 SCALE: NTS



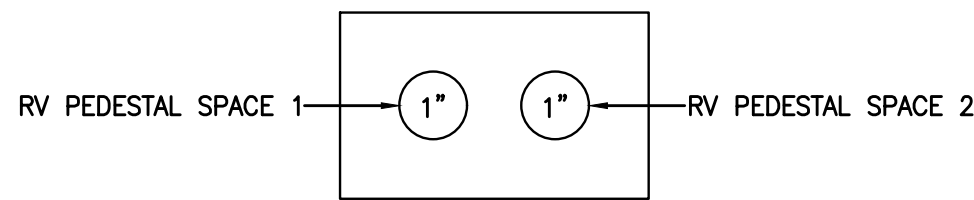
**5** **DETAIL - TRENCH SECTION E-E** ①  
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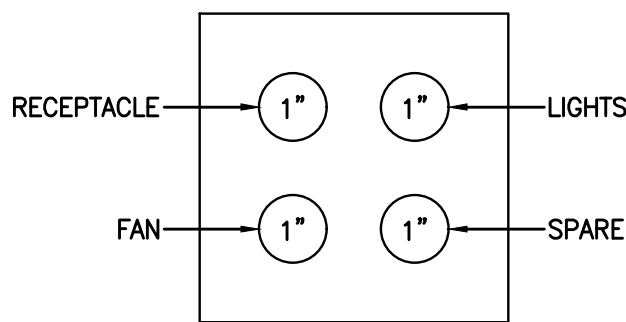
**4** **DETAIL - TRENCH SECTION D-D** ①  
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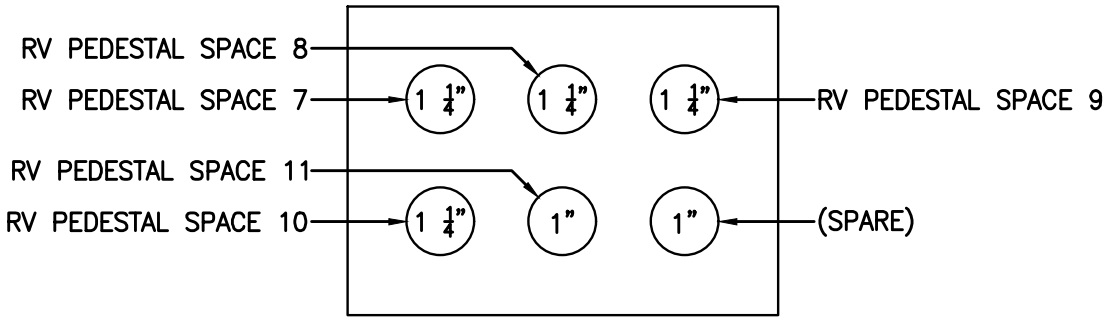
**3** **DETAIL - TRENCH SECTION C-C** ①  
E5.2 SCALE: NTS



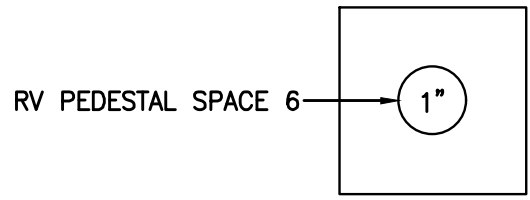
**2** **DETAIL - TRENCH SECTION B-B** ①  
E5.2 SCALE: NTS



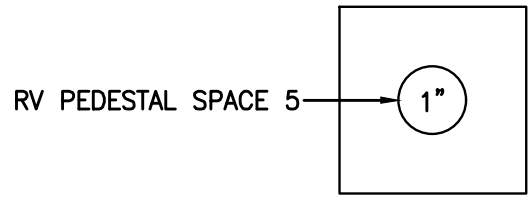
**1** **DETAIL - TRENCH SECTION A-A** ①②  
E5.2 SCALE: NTS



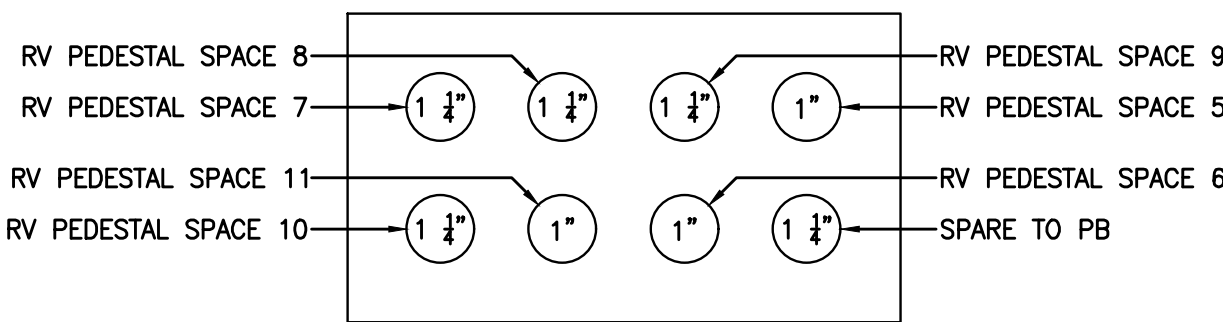
**11** **DETAIL - TRENCH SECTION K-K** ①②  
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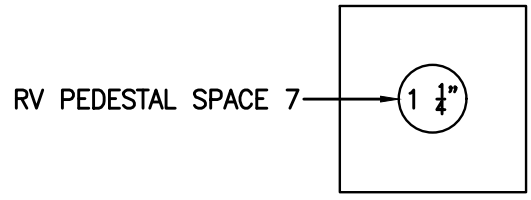
**10** **DETAIL - TRENCH SECTION J-J** ①  
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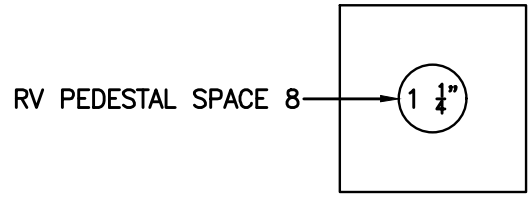
**8** **DETAIL - TRENCH SECTION H-H** ①  
E5.2 SCALE: NTS



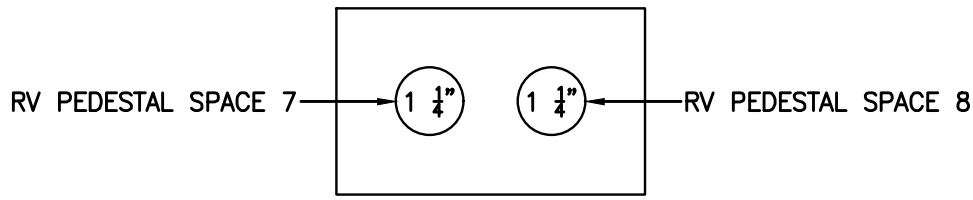
**7** **DETAIL - TRENCH SECTION G-G** ①  
E5.2 SCALE: NTS



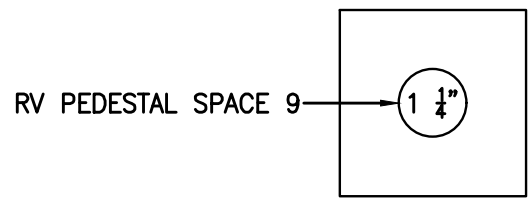
**19** **DETAIL - TRENCH SECTION S-S** ①  
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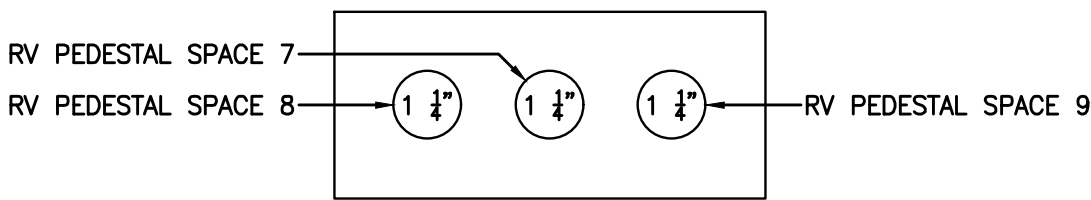
**18** **DETAIL - TRENCH SECTION R-R** ①  
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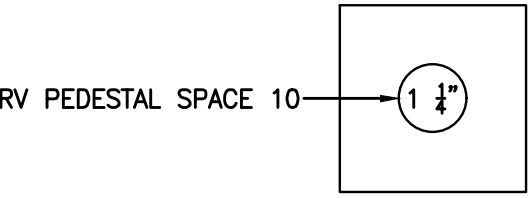
**17** **DETAIL - TRENCH SECTION Q-Q** ①  
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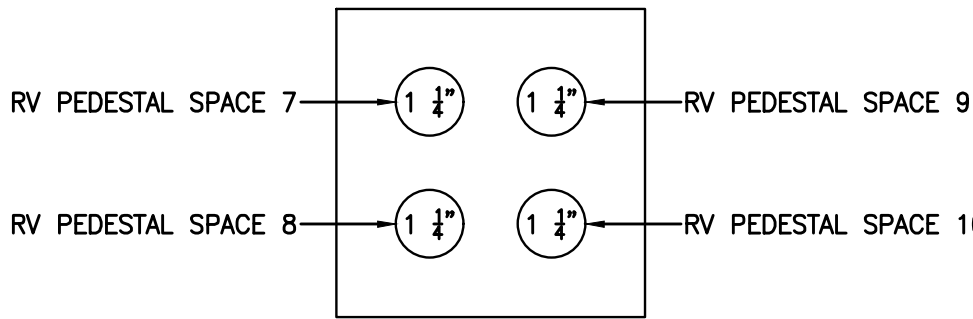
**16** **DETAIL - TRENCH SECTION P-P** ①  
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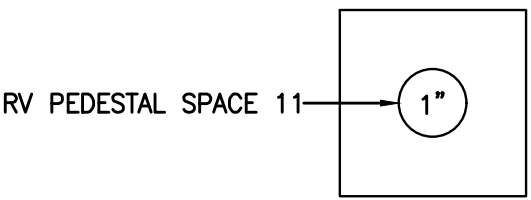
**15** **DETAIL - TRENCH SECTION O-O** ①  
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**14** **DETAIL - TRENCH SECTION N-N** ①  
E5.2 SCALE: NTS



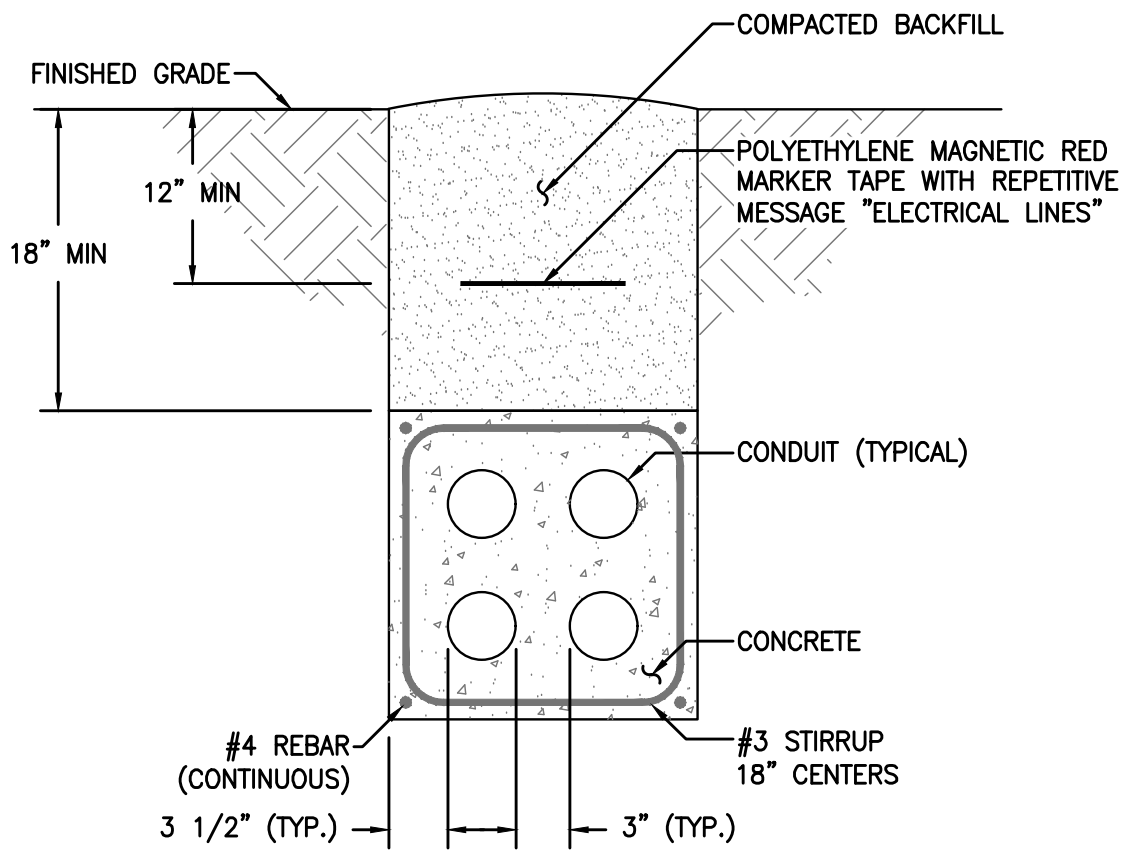
**13** **DETAIL - TRENCH SECTION M-M** ①  
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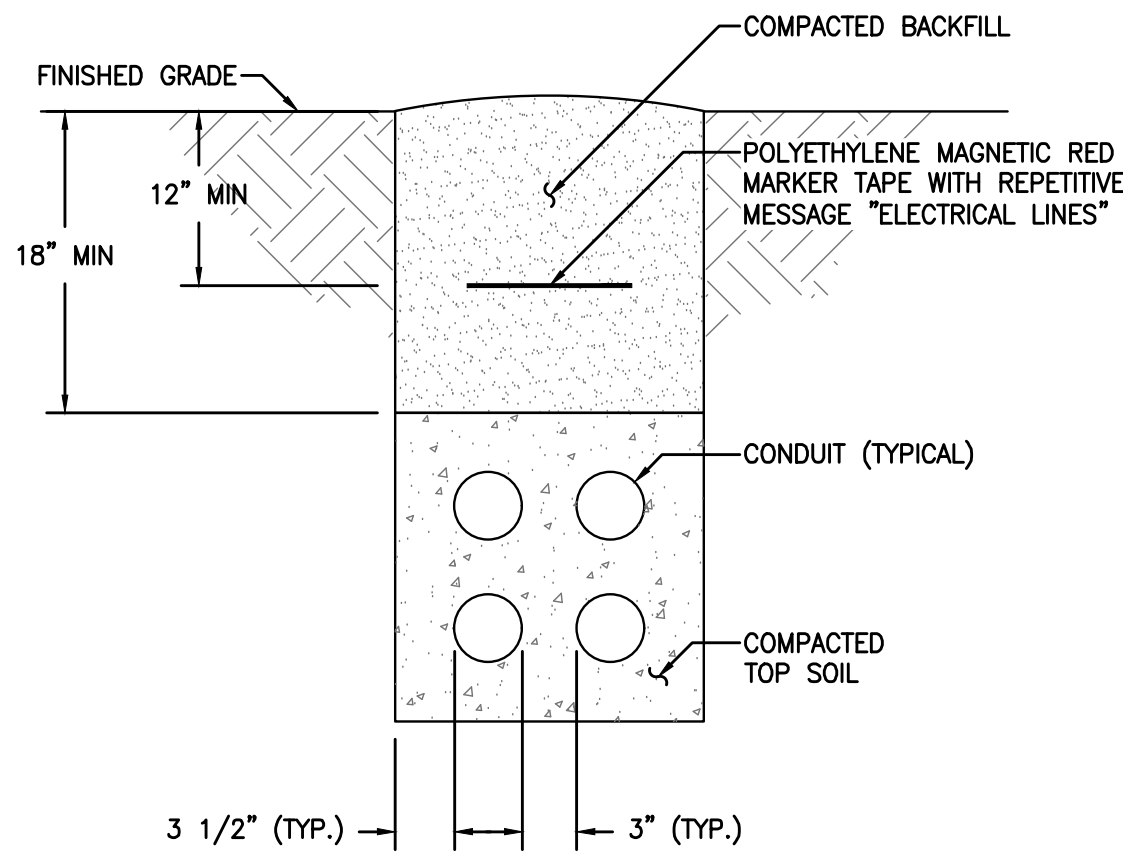
**12** **DETAIL - TRENCH SECTION L-L** ①  
E5.2 SCALE: NTS

## REFERENCE NOTES

- ① SEE DETAIL 20/E5.2 FOR TYPICAL TRENCH DETAIL. TYPICAL.
- ② FOR SECTIONS OF DUCTBANK BELOW ROADWAY, PROVIDE CONCRETE DUCTBANK PER DETAIL 21/E5.2. CONCRETE DUCTBANK SHALL BE PROVIDED DIRECTLY BELOW ROADWAY AND EXTEND 5'-0" PAST BOTH SIDES OF ROADWAY.



**21** **DETAIL - DUCT BANK SECTION CONSTRUCTION UNDER ROADWAY (TYPICAL)**  
E5.2 SCALE: NTS



**20** **DETAIL - TRENCH SECTION CONSTRUCTION (TYPICAL)**  
E5.2 SCALE: NTS

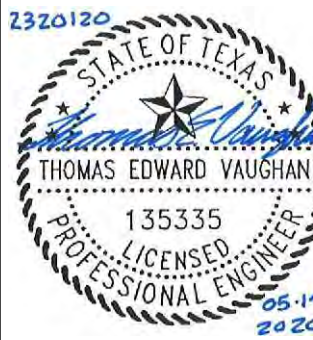


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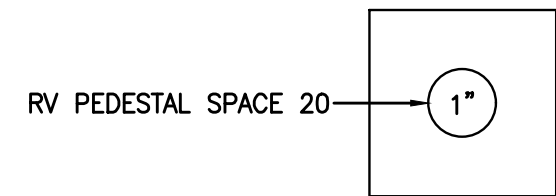
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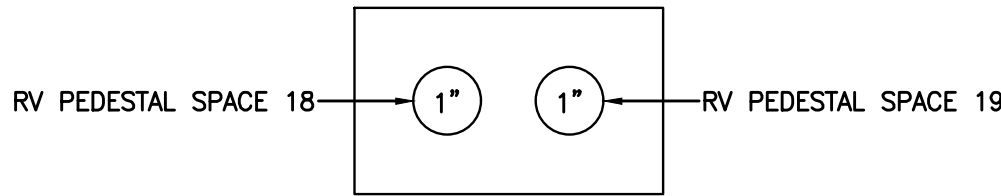
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Project No. **2054.19002**



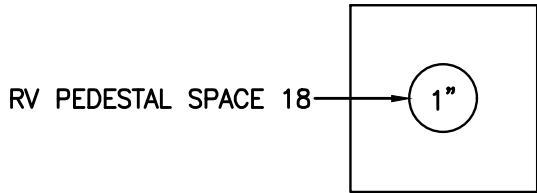


**20** **DETAIL - TRENCH SECTION T-T** ①  
E5.3 SCALE: NTS

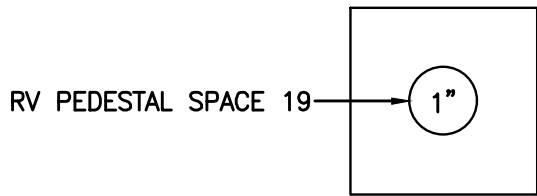
**21** **DETAIL - TRENCH SECTION U-U** ①  
E5.3 SCALE: NTS



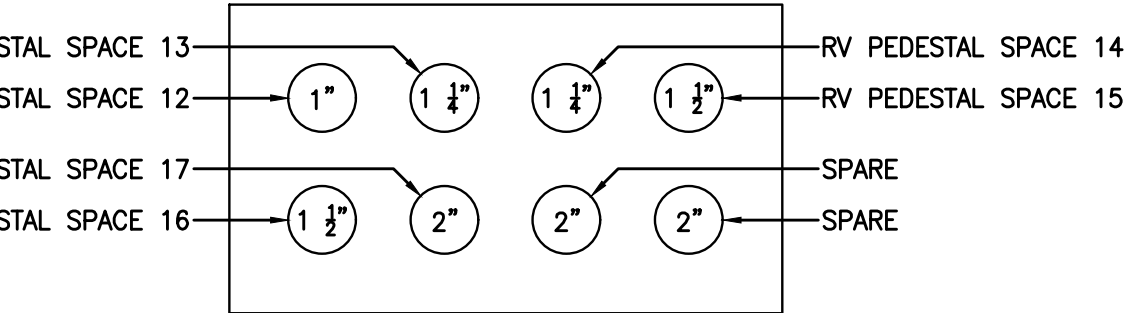
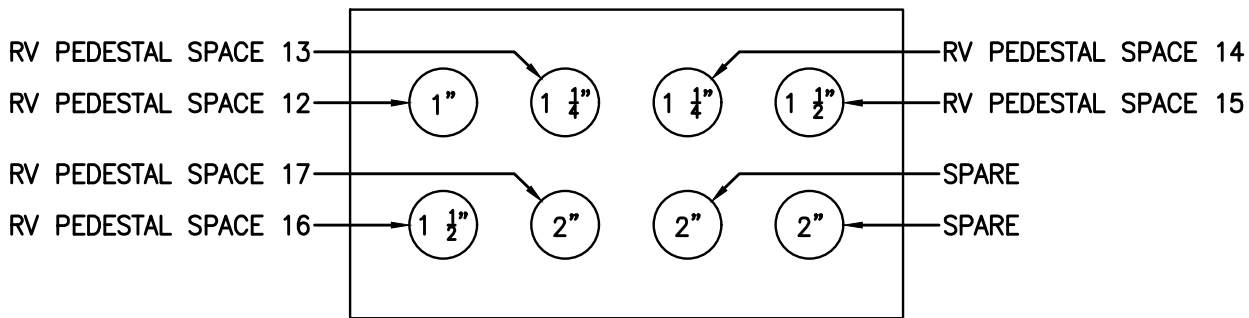
**22** **DETAIL - TRENCH SECTION V-V** ①  
E5.3 SCALE: NTS



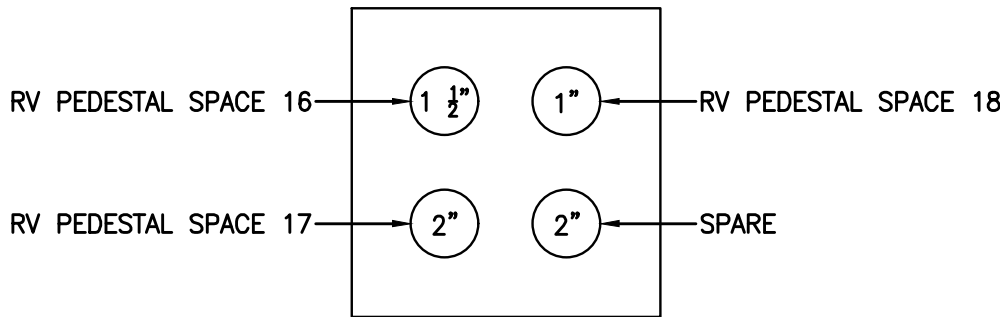
**23** **DETAIL - TRENCH SECTION W-W** ①  
E5.3 SCALE: NTS



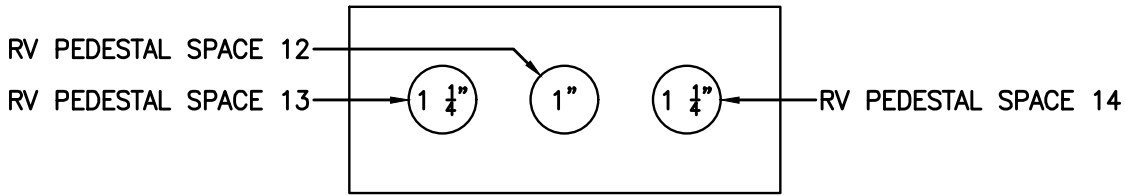
**24** **DETAIL - TRENCH SECTION X-X** ①  
E5.3 SCALE: NTS



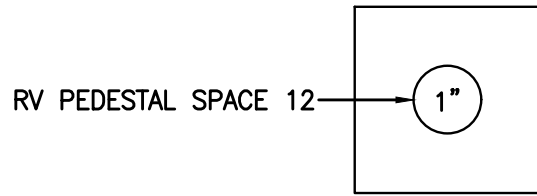
**25** **DETAIL - TRENCH SECTION Y-Y** ①②  
E5.3 SCALE: NTS



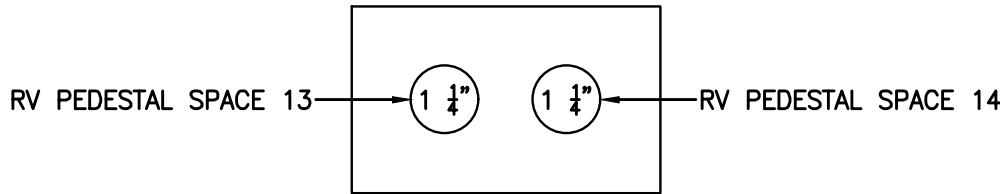
**26** **DETAIL - TRENCH SECTION Z-Z** ①②  
E5.3 SCALE: NTS



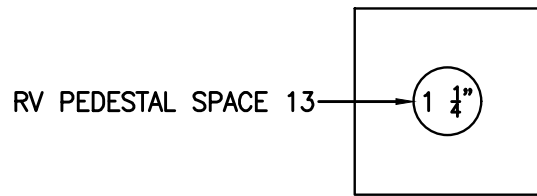
**27** **DETAIL - TRENCH SECTION AA-AA** ①  
E5.3 SCALE: NTS



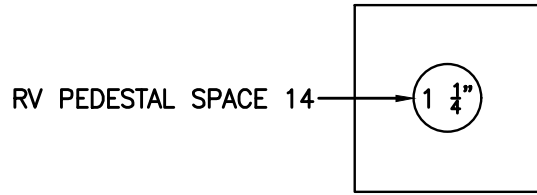
**28** **DETAIL - TRENCH SECTION BB-BB** ①  
E5.3 SCALE: NTS



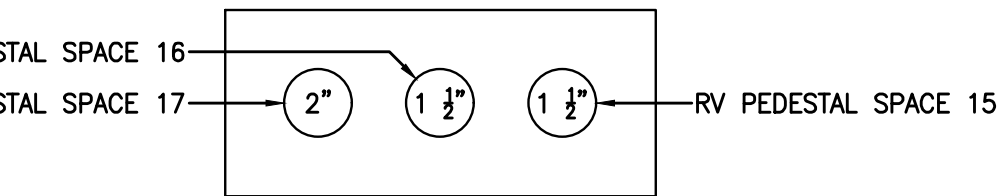
**29** **DETAIL - TRENCH SECTION CC-CC** ①  
E5.3 SCALE: NTS



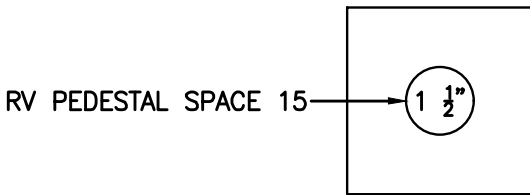
**30** **DETAIL - TRENCH SECTION DD-DD**  
E5.3 SCALE: NTS



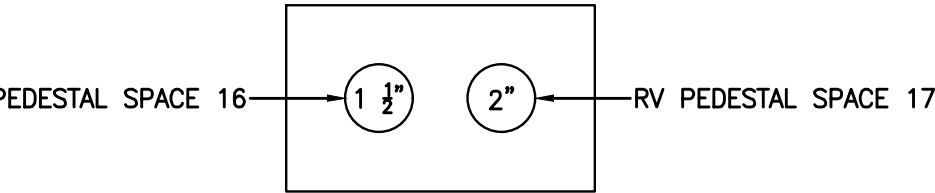
**31** **DETAIL - TRENCH SECTION EE-EE** ①  
E5.3 SCALE: NTS



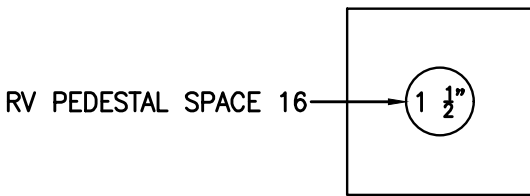
**32** **DETAIL - TRENCH SECTION FF-FF** ①  
E5.3 SCALE: NTS



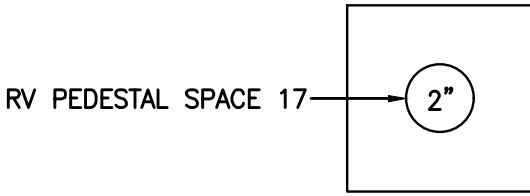
**33** **DETAIL - TRENCH SECTION GG-GG** ①  
E5.3 SCALE: NTS



**34** **DETAIL - TRENCH SECTION HH-HH** ①  
E5.3 SCALE: NTS



**35** **DETAIL - TRENCH SECTION JJ-JJ** ①  
E5.3 SCALE: NTS

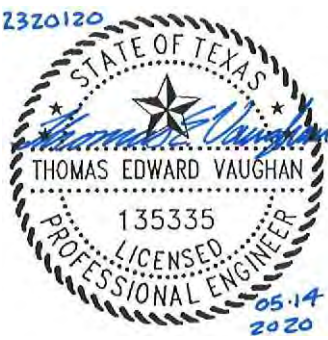


**36** **DETAIL - TRENCH SECTION KK-KK** ①  
E5.3 SCALE: NTS



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Checked By: TEV  
Scale: PER TITLE  
Date: 05/13/2020

**HARPER PARK IMPROVEMENTS  
WATER VALLEY  
TOM GREEN COUNTY, TEXAS**

**ELECTRICAL DETAILS**

Sheet No. **E5.3**  
Project No. **2054.19002**

## REFERENCE NOTES

- ① SEE DETAIL 20/E5.2 FOR TYPICAL TRENCH DETAIL. TYPICAL.
- ② FOR SECTIONS OF DUCTBANK BELOW ROADWAY, PROVIDE CONCRETE DUCTBANK PER DETAIL 21/E5.2. CONCRETE DUCTBANK SHALL BE PROVIDED DIRECTLY BELOW ROADWAY AND EXTEND 5'-0" PAST BOTH SIDES OF ROADWAY.