

COUNTY OF HIDALGO 2802 S. HIGHWAY BUSINESS 281 EDINBURG, TEXAS 78542

HIDALGO COUNTY PRECINCT 4 MEMORIAL PARK PHASE I 107 SUNFLOWER RD. EDINBURG, TEXAS 78542

CONSTRUCTION DOCUMENTS SEPTEMBER 27, 2018

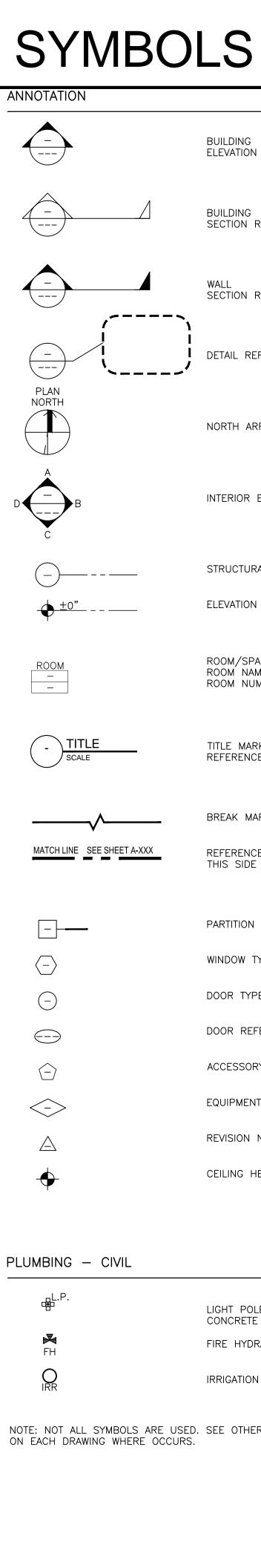
HIDALGO COUNTY JUDGE RAMON GARCIA COMMISSIONER PRECINCT 1 AC. CUELLAR, JR. COMMISSIONER PRECINCT 2 EDUARDO "EDDIE" CANTU

COMMISSIONER PRECINCT 3 JOE M. FLORES **COMMISSIONER PRECINCT 4** JOSEPH PALACIOS



ARCHITECTURAL ABBREVIATIONS

NUTE: NUT ALL AE	BREVIATIONS ARE USED
Ф.	CENTERLINE
ACOUST	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
ACP ADA	ACOUSTICAL CEILING PANEL AMERICANS WITH DISABILITIES ACT
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF ALT	ABOVE FINISH FLOOR ALTERNAT(-E,-IVE)
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
APPROX	APPROXIMAT(-E,-LY)
ARCH ASTM	ARCHITECT (–URAL) AMERICAN SOCIETY FOR TESTING AND MATERIALS
AVG	AVERAGE
BLDG	BUILDING
BM	BENCH MARK
BOL BFF	BOLLARD BELOW FINISH FLOOR
CH CMU	CEILING HEIGHT CONCRETE MASONRY UNIT
CNTR	COUNTER
COL COLS	COLUMN COLUMNS
CONC	CONCRETE
COORD CPT	COORDINATE CARPET
CJ	CONTROL JOINT
СТ	CERAMIC TILE
DEMO	DEMOLISH OR DEMOLITION
DET DF	DETAIL(-S) DRINKING FOUNTAIN
DIA	DIAMETER
DIM DL	DIMENSION(-S) DOCK LEVELER
D.L.P.	DOUBLE HEAD LIGHT POLE
DR DS	DOOR DOWN SPOUT
DWG(S)	DRAWING(-S)
(E)	EXISTING
EA	EACH
EEW EEWS	EMERGENCY EYE-WASH EMERGENCY EYE-WASH AND SHOWER
EF	EACH FACE OR EXHAUST FAN
EIFS EJ	EXTERIOR INSULATION AND FINISH SYSTEM EXPANSION JOINT
ELEV	ELEVATION
ELEC EMERG	ELECTRIC(-AL) EMERGENCY
EOD	EDGE OF DOCK
EQ EQUIP	EQUAL(-LY) EQUIPMENT
EXT	EXTERIOR
EW EP	EACH WAY ELECTRICAL POWER & METER CAN
(F) FA	FIXTURE FIRE ALARM
FD	FLOOR DRAIN
FE FEC	FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET
FF	FACTORY FINISH, FINISH FLOOR
FH FLR	FIRE HYDRANT FLOOR
FRT	FIRE-RETARDANT TREATED
FTG FURN	FOOTING FURNITURE
GA	GAUGE
GDL	GROUND LEVEL
GYP	GYPSUM
HB	HOSE BIB
HC HGT,HT	(HANDICAP) ACCESSIBLE HEIGHT
HORIZ	HORIZONTAL
HVAC	HEATING, VENTILATION & AIR CONDITIONING
IN	INCH(-ES)
JB,J-BOX	JUNCTION BOX
JST JT	JOIST JOINT
01	30IN1
LAV	LAVATORY
MAX	MAXIMUM
MECH MFR	MECHANICAL MANUFACTURER
MH	MANHOLE
MTL MIN	METAL MINIMUM
	NODTU
N N/A	NORTH NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NIC NTS	NOT IN CONTRACT NOT TO SCALE
NOP	KNOCK-OUT PANEL
OC .	ON CENTER
OTS	OPEN TO STRUCTURE
PERF	PERFORAT(-E, -ED, -ES, -ATION)
PL PLAM	PROPERTY LINE, PLATE PLASTIC LAMINATE
PLBG	PLUMBING
PLYWD PNL	PLYWOOD PANEL
PROJ PSF	PROJECT(-TION) POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
P.J.	PANEL JOINT
RAD	RADIUS
RE: REQ	REFER, REFERENCE REQUIRED
RL	RISER LINE (STAIRS)
RR	RESTROOM
SCH	SCHEDULE
SHT S.L.P.	SHEET SINGLE HEAD LIGHT POLE
SPECS SQ	SPECIFICATIONS SQUARE
SQ FT	SQUARE FEET
SQ IN STD	SQUARE INCHES STANDARD
STOR	STORAGE
STRUCT S/W	STRUCTURE SIDEWALK
SYM	SYMMETRICAL
TEMP T.C.	TEMPORARY TRENCH COVER
VCT VERT	VINYL COMPOSTION TILE VERTICAL
W/ W/O	WITH WITHOUT
·	
XFMR	TRANSFORMER



BUILDING ELEVATION REFERENCE

BUILDING SECTION REFERENCE

WALL SECTION REFERENCE

DETAIL REFERENCE

NORTH ARROW

INTERIOR ELEVATION REFERENCE

STRUCTURAL GRID

ELEVATION OF ARCHITECTURAL ELEMENT

ROOM/SPACE IDENTIFIER ROOM NAME ROOM NUMBER

TITLE MARK REFERENCE NUMBER

BREAK MARK REFERENCE TO SHEET WHERE WORK

THIS SIDE OF MATCHLINE IS DRAWN

PARTITION TYPE

WINDOW TYPE REFERENCE

DOOR TYPE REFERENCE

DOOR REFERENCE NUMBER

ACCESSORY KEY

EQUIPMENT KEY

REVISION NUMBER

CEILING HEIGHT MARKER

LIGHT POLE WITH A 36" HIGH CONCRETE BASE FIRE HYDRANTS

IRRIGATION PIPE

NOTE: NOT ALL SYMBOLS ARE USED. SEE OTHER SPECIFIC SYMBOL LEGENDS

GENERAL NOTES

THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, AND A201 LATEST EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS, ARE HEREBY MADE PART OF CONTRACT DOCUMENTS TO THE SAME EXTENT AS IF BOUND HEREIN.

THE CONTRACTOR SHALL PROVIDE ADEQUATE CONTRACTOR'S LIABILITY AND "ALL RISK" INSURANCE TO COVER 100% OF THE COST OF THE PROJECT. PROVIDE WORKMEN'S COMPENSATION AS REQUIRED BY LAW AND PROVIDE OTHER INSURANCE REQUIRED BY GENERAL CONDITIONS, LANDLORD, LAW OR CODE. ALL SUBCONTRACTORS MUST BE PRE-APPROVED BY HIDALGO COUNTY PRECINCT 4 AUTHORIZED REPRESENTATIVES AND THE WARREN GROUP

GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL PROVIDE, PRIOR TO CONSTRUCTION, UNIT PRICES FOR ALL WORK SHOWN. THESE PRICES SHALL BE VALID FOR THE DURATION OF THE PROJECT AND USED FOR ALL SUBMISSIONS REGARDING ADDITIONS OR DELETIONS TO SCOPE OF WORK. UNLESS OTHERWISE STIPULATED, THE GENERAL CONTRACTOR SHALL PROVIDE AND PAY FOR ALL MATERIALS, LABOR, TAXES, WATER, TOOLS, EQUIPMENT, LIGHT, POWER, TRANSPORTATION AND OTHER FACILITIES NECESSARY FOR THE EXECUTION AND COMPLETION OF THE WORK. THE CONTRACTOR AND HIS SUB-CONTRACTORS SHALL KEEP WORK AREA IN A CLEAN AND ORDERLY MANNER, REMOVING DEBRIS ON A ROUTINE BASIS.

CONTRACTOR REVIEW:

ARCHITECTS INC.

GENERAL CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSION FOR ACCURACY AND CONFIRMING THAT WORK IS BUILDABLE, AS SHOWN, BEFORE SUBMITTING FINAL PRICING AND PROCEEDING WITH CONSTRUCTION. FAILURE TO REPORT A CONFLICT IN THE CONTRACT DOCUMENTS SHALL BE DEEMED EVIDENCE THAT THE CONTRACTOR HAS ELECTED TO PROCEED IN THE MORE EXPENSIVE MANNER.

CONTRACTOR IS RESPONSIBLE TO PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES HAVING JURISDICTION.

PROJECT TEAM

OWNER: Hidalgo County Commissioner Precinct 4 1051 N Doolittle Rd, Edinburg, Texas 78542 956.383.3112

ARCHITECT: The Warren Group Architects. Inc. Contact: Laura Nassri Warren, AIA. 1801 S. 2nd St. Suite 330 McAllen, Texas 78503 956.994.1900 956.994.1962 fax lwarren@twgarch.com

CIVIL ENGINEER: South Texas Infrastructure Group Contact: Julio Cerda, P.E. 900 S. Stewart Road, Suite13 Mission, Texas 78572 956.424.3335 956.424.3132 fax julio@southtexasig.com

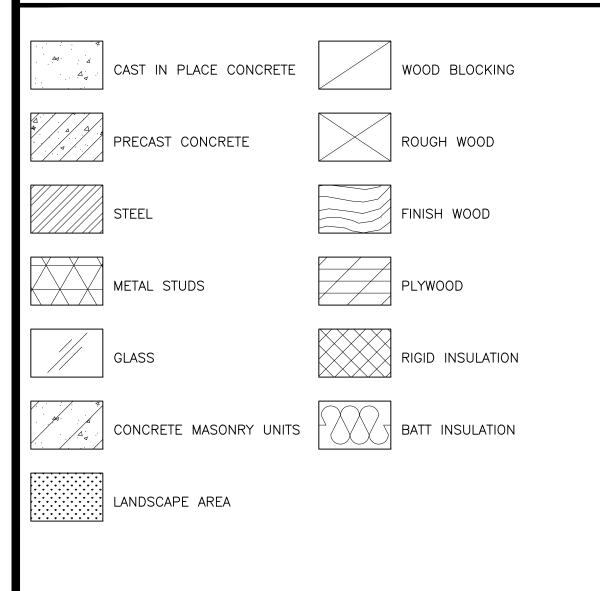
STRUCTURAL ENGINEER:

Solorio, Inc. Contact: Simon Solorio 108 Cleo Dawson, Mission, Texas 78572 956.631.1500 simon@solorio.com

MEP ENGINEER: MEP Solutions Engineering Contacts: Luis Javier Pena, PE Abram L. Dominguez, PE 600 E Beaumont Ave. Suite 2 McAllen, Texas 78501 956.664.2727 956.664.2726 fax jpena@mepsolutionsengineering.com adominguez@mepsolutionsengineering.com

LANDSCAPE AND IRRIGATION Earth Irrigation & Landscaping LTD. Contact: Jude Tanguma 1101 E Violet Ave, McAllen, Texas 78504 956.631.6686 jude@earthirrigation.com

MATERIALS



CODE CHECK

GENERAL - PROJECT IDENTIFICATION

LIST OF APPLICABLE CODES (TITLES & EDITIONS) -TEXAS ACCESSIBILITY STANDARDS (TAS), 2012 EDITION. -INTERNATIONAL BUILDING CODE (IBC), 2015 EDITION. -INTERNATIONAL ENERGY CONSERVATION CODE(IECC), 2015 EDITION.

LIST OF APPLICABLE ORDINANCES AND JURISDICTIONS CITY OF EDINBURG CODE OF ORDINANCES, CURRENT EDITION.

PROJECT DESCRIPTION

APPROXIMATE SITE AREA: (NEW FACILITY) 16.83 ACRES

ZONING / ORDINANCE REQUIREMENTS

-PARKING REQUIREMENTS PARKING REQUIRED: EXISTING PARKING: FUTURE PARKING PROVIDED:

N/A 45 SPACES 90 SPACES

ACCESSIBILITY DESIGN CRITERIA (TAS-ADA)

EXTERIOR ACCESSIBLE PARKING SPACES ADA- TABLE 208.2 REQUIRED: EXISTING PROVIDED NEW PROVIDED:

4 ACC PK SPACES 2 ACC PK SPACES 6 ACC PK SPACES

NOTES:

1. ALL REQUIRED PERMITS MUST BE OBTAINED FROM THE CITY OF EDINBURG BUILDING INSPECTIONS BEFORE THE BUILDING IS OCCUPIED.

ALTERNATES

<u>ALTERNATE 1</u>

GENERAL CONTRACTOR TO PROVIDE ALTERNATE PRICE FOR REDUCE "SUNKEN GARDEN" PLANTER HEIGHT TO 4'-10" A.F.F.

VICINITY MAP



HIDALGO COUNTY PRECINCT 4 MEMORIAL PARK EDINBURG, TX 78542

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NORTH

ALL CONSTRUCTION SHALL COMPLY WITH AMERICAN'S WITH DISABILITIES ACT, PUBLIC LAW 101–336 AND TAS COMPLIANT.

GENERAL CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS FOR ACCURACY AND CONFIRMING THAT WORK IS BUILDABLE, AS SHOWN, BEFORE SUBMITTING

FINAL PRICING FOR THE WORK IN QUESTION OR RELATED WORK.

INDEX OF DRAWINGS

ARCHITECTURAL DRAWINGS GO.00

G0.01

A1.01

A1.02

A1.03

A1.04

- COVER SHEET GENERAL NOTES
- SITE PLAN

PARTIAL SITE PLAN, ELEVATIONS, & SECTIONS PARTIAL SITE PLAN, ELEVATIONS, & SECTIONS PARTIAL SITE PLAN, ELEVATIONS, & SECTIONS PARTIAL SITE PLAN, ELEVATIONS, & SECTIONS

STRUCTURAL DRAWINGS

M.E.P. DRAWINGS

- ELECTRICAL SPECIFICATIONS E1.00 ELECTRICAL SITE PLAN F1 01
- E1.02 ENLARGED ELECTRICAL SECTIONS E2.01 ELECTRICAL LEGENDS, SCHEDULES & RISERS

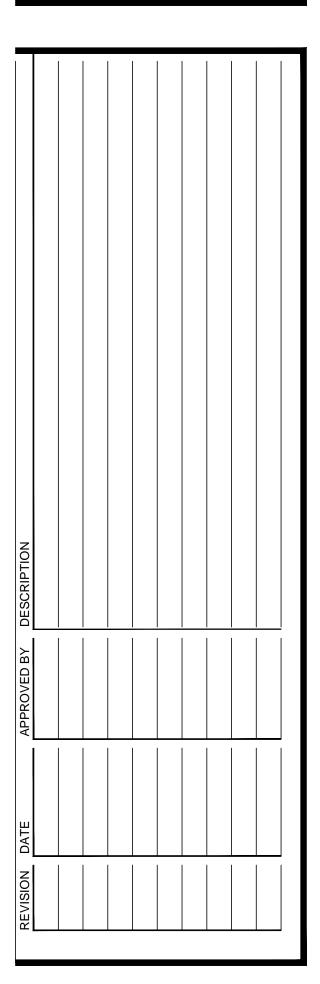
LANDSCAPE & IRRIGATION DRAWINGS

LANDSCAPE PLAN L2.0 IRRIGATION PLAN



1801 SOUTH SECOND ST. SUITE 330 MCALLEN, TX 78503 956.994.1900 twgarch.com

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PROPOSED

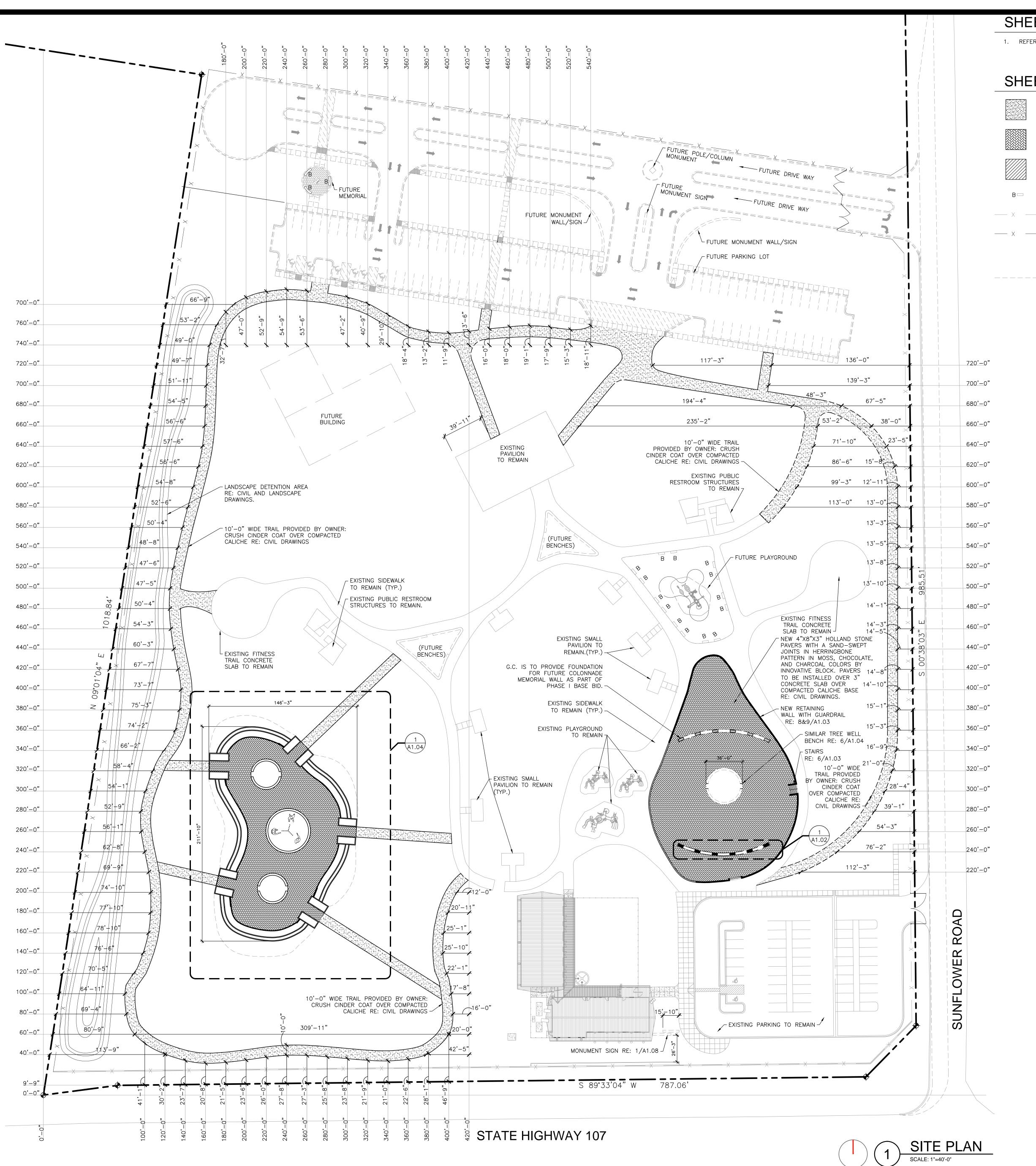
HIDALGO COUNTY PRECINCT 4 MEMORIAL PARK PHASE 1

107 SUNFLOWER RD EDINBURG, TEXAS 78542

PROJECT DATE REVISED

1341701 09/27/2018

GO.01 GENERAL NOTES, ABBREVIATIONS & SYMBOLS



SHEET NOTES

1. REFER SHEET GO.01 AND SPECIFICATIONS FOR ALTERNATES DESCRIPTION.

SHEET LEGEND

CRUSHED CINDER PEDESTRIAN TRAIL TO BE PROVIDED BY OWNER RE: CIVIL DRAWINGS.

NEW 4"X8"X3" HOLLAND STONE PAVERS WITH A SAND-SWEPT JOINTS IN HERRINGBONE PATTERN IN MOSS, CHOCOLATE, AND CHARCOAL COLORS BY INNOVATIVE BLOCK. PAVERS TO BE INSTALLED OVER 3" CONCRETE SLAB OVER COMPACTED CALICHE BASE RE: CIVIL DRAWINGS. ATHLETIC SURFACING

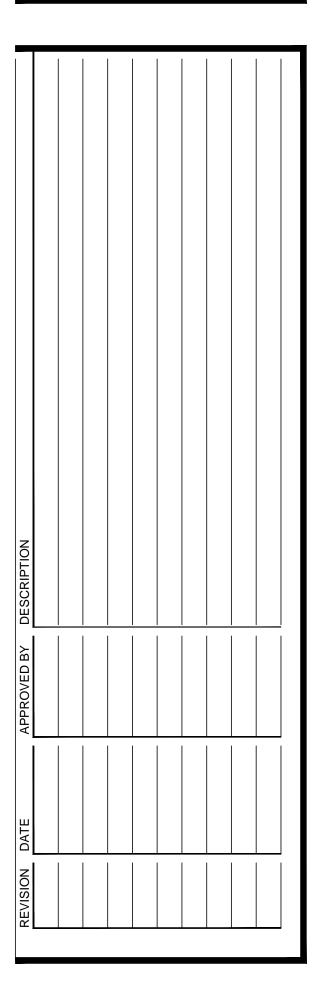
EXISTING WROUGHT IRON FENCE TO REMAIN

----- TO BE BUILD IN THE FUTURE



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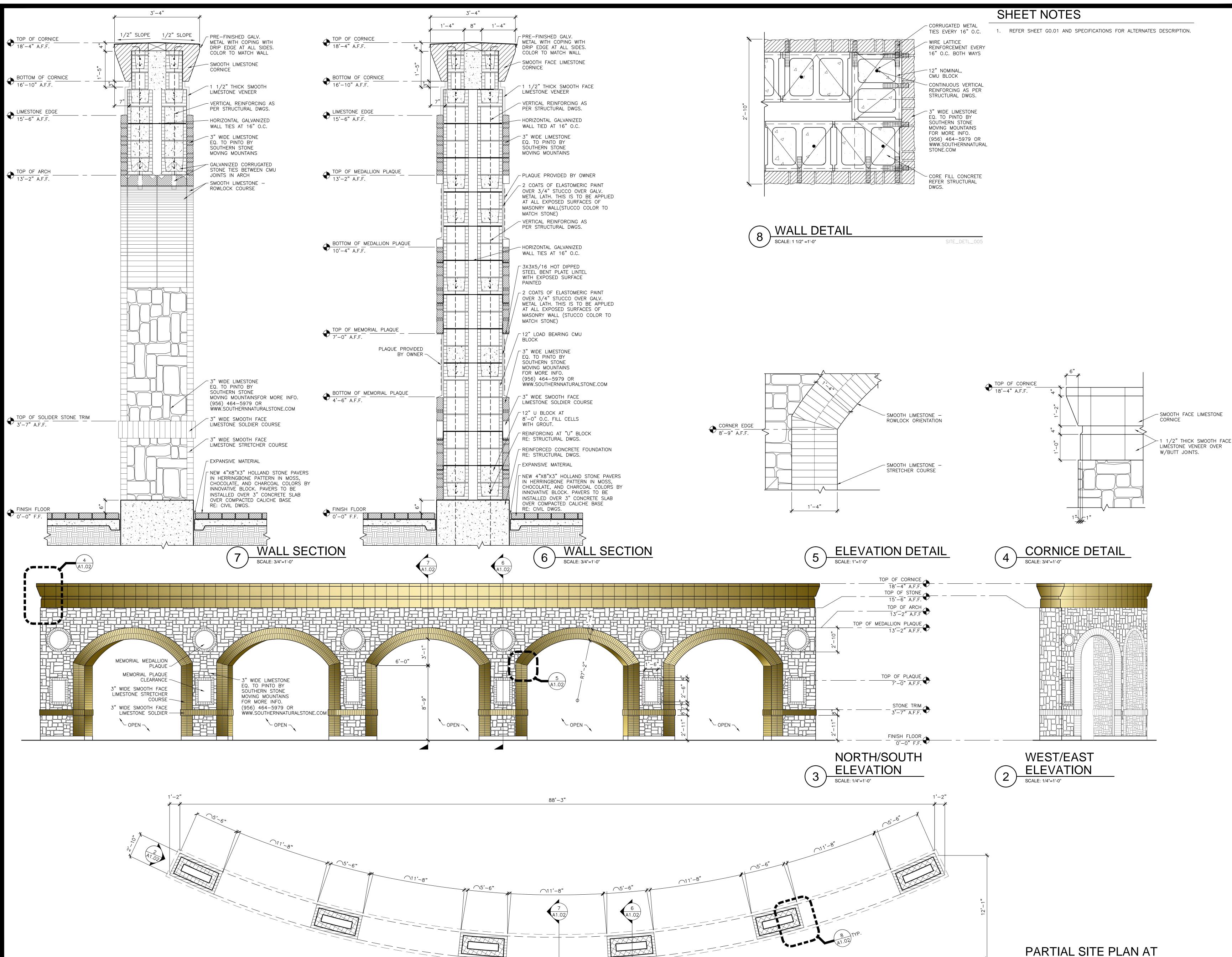
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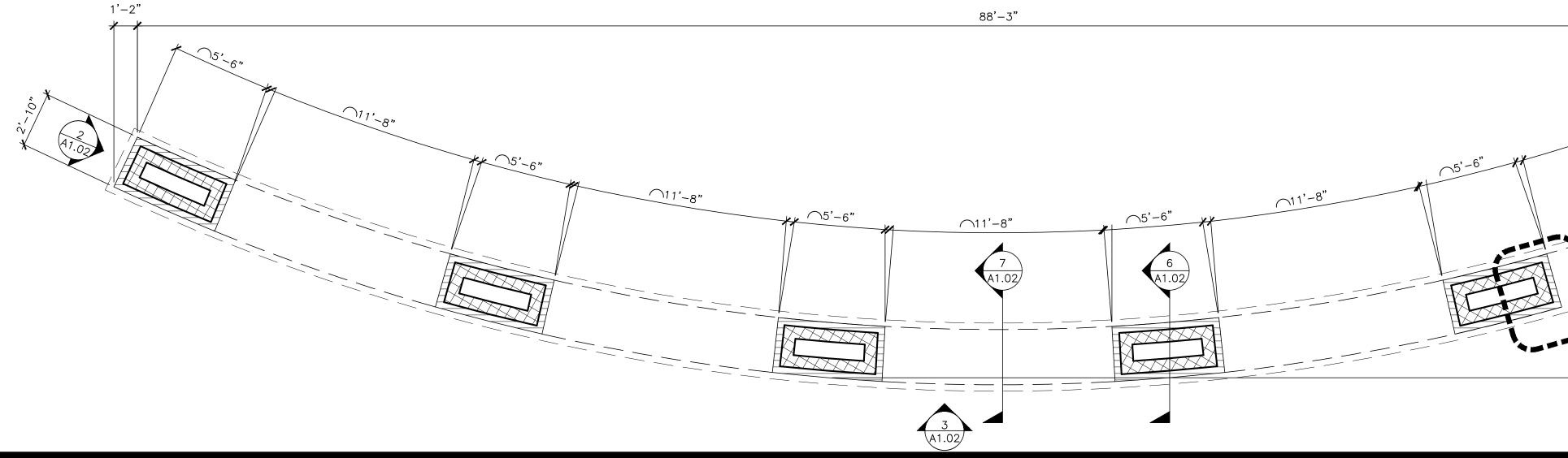
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SITE PLAN

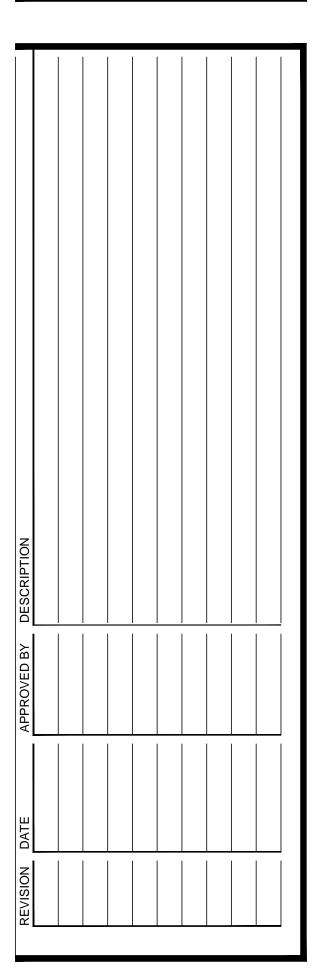






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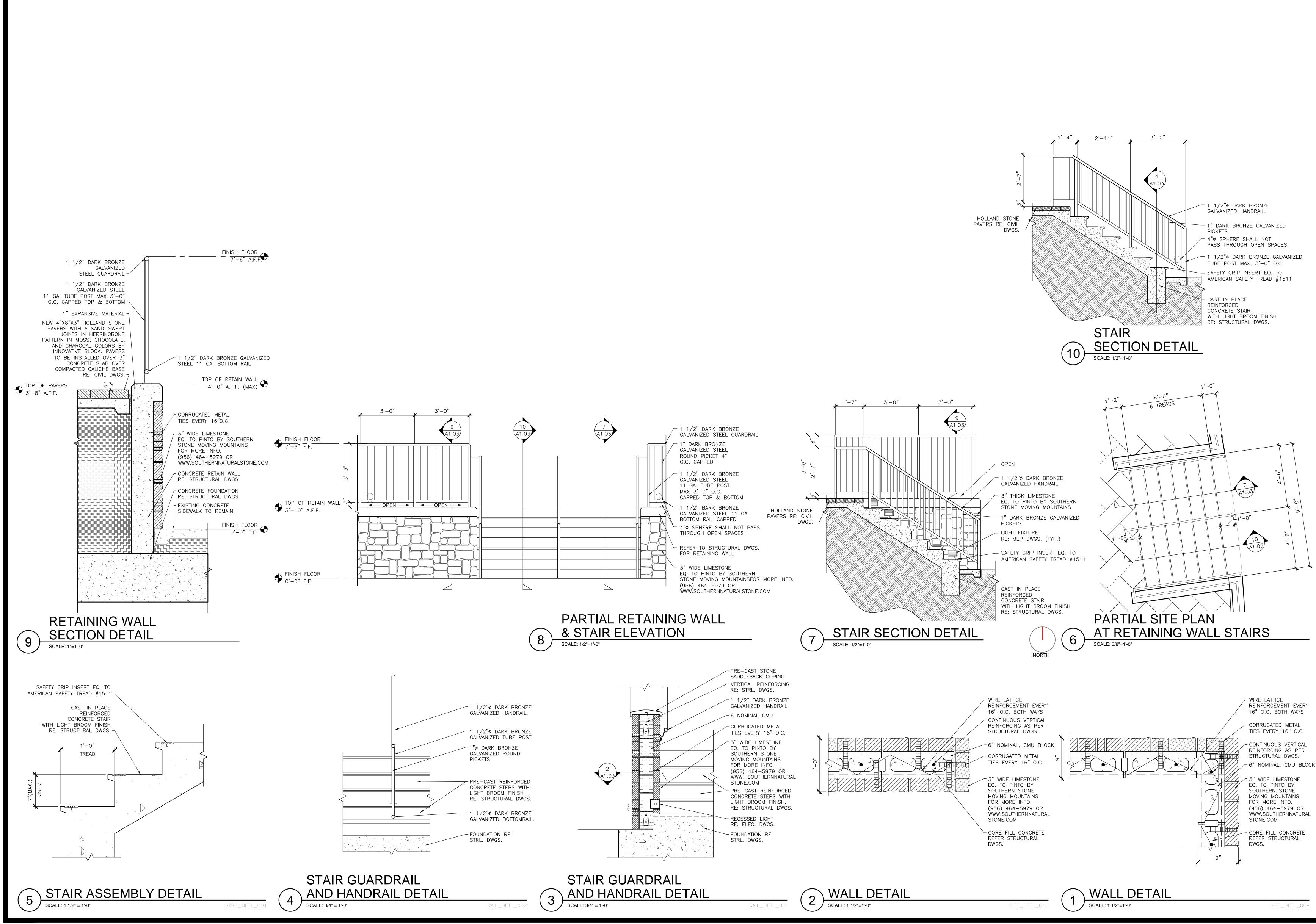
107 SUNFLOWER RD EDINBURG, TEXAS 78542

PROJECT DATE REVISED

COLONNADE MEMORIAL

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





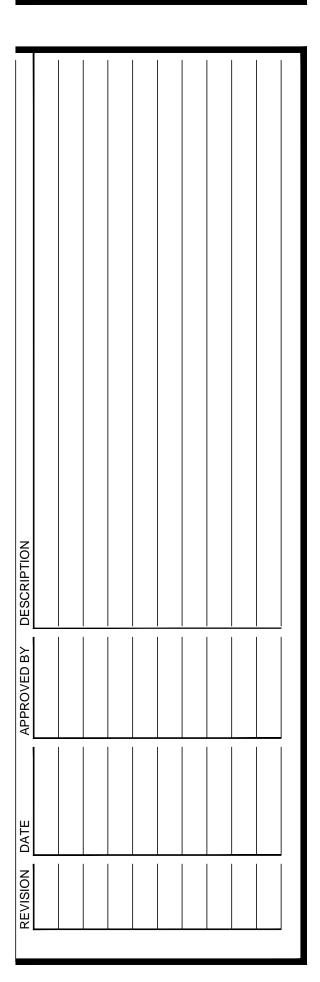
SHEET NOTES

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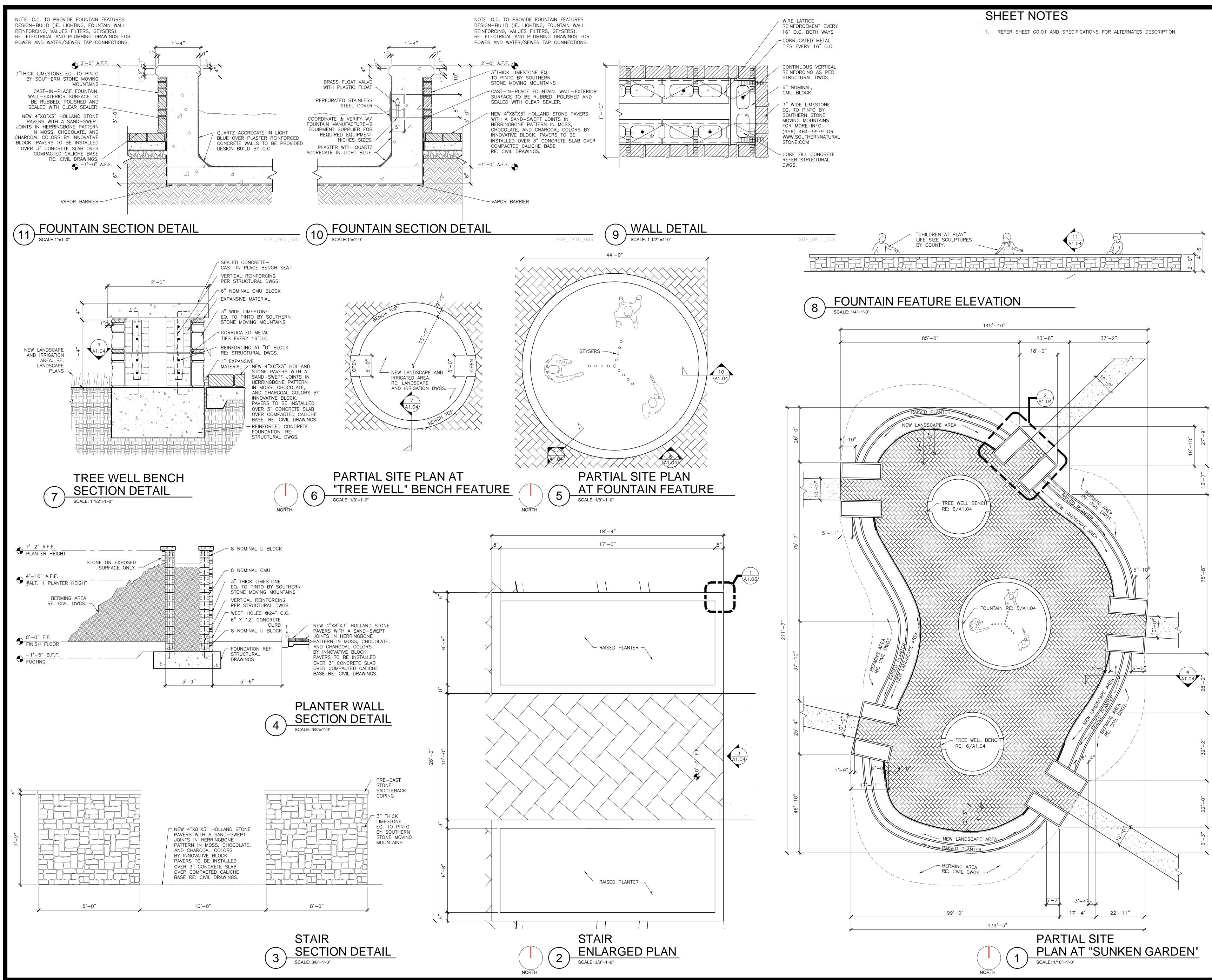
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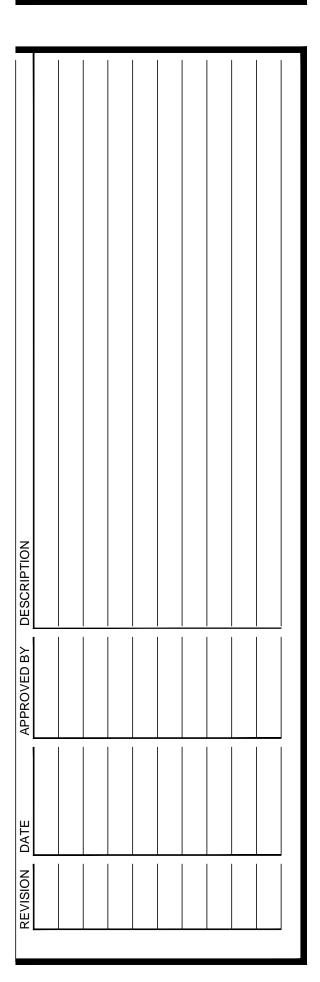






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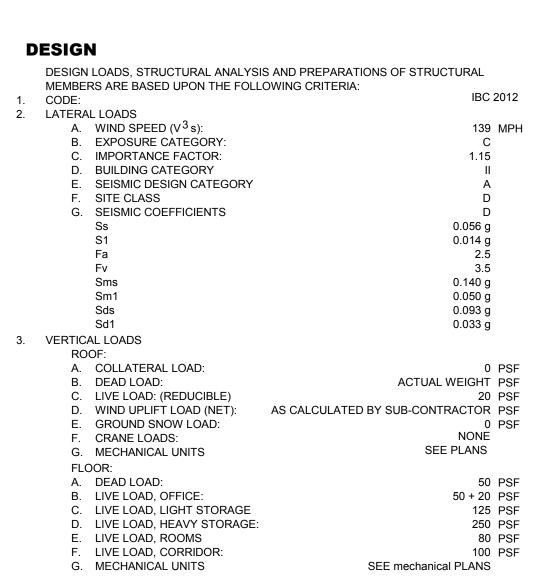
107 SUNFLOWER RD EDINBURG, TEXAS 78542

PROJECT DATE REVISED



GENERAL

- THIS CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED 1. SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED FOR REVIEW TO THE STRUCTURE, UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR EARTH BANKS FORMS SCAFEOLDING PLANKING SAFETY NETS SUPPORT AND BRACING FOR CRANES POLES, ETC. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES SEQUENCES AND PROCEDURES OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR THE ENGINEER DO NOT INCLUDE INSPECTION OF THE ABOVE AND BELOW
- ALL CONSTRUCTION AND QUALITY OF MATERIALS SHALL COMPLY WITH THE GOVERNING BUILDING CODES AND REGULATIONS. THE CONTRACTOR SHALL Verify ALL DIMENSIONS, ELEVATIONS, TOLERANCES AND CONDITIONS AT THE JOB SITE BEFORE COMMENCEMENT OF WORK AND SHALL
- IMMEDIATELY REPORT ANY DISCREPANCIES OR OMISSIONS TO THE ARCHITECT AND ENGINEER IN WRITING, ANY OMISSION OR CONFLICT BETWEEN THE VARIOUS FLEMENTS. OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED. IN CASE OF CONFLICT; NOTES AND DETAILS ON THE BALANCE OF THE DRAWINGS TAKE
- PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. DRAWINGS TAKE PRECEDENCE OVER SPECIFICATIONS. WHERE CONSTRUCTION DETAILS ARE NOT SPECIFICALLY SHOWN OR NOTED FOR ANY
- PART OF THE WORK. SUCH DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS SHOWN FOR SIMILAR CONDITIONS AND MATERIALS. WHERE SUFFICIENTLY SIMILAR WORK IS NOT SHOWN, THE ENGINEER SHALL BE CONSULTED FOR CLARIFICATION. EACH SUBCONTRACTOR IS CONSIDERED AN EXPERT IN HIS RESPECTIVE FIELD AND SHALL PRIOR TO THE SUBMISSION OF A BID OR PERFORMANCE OF WORK, NOTIFY THE GENERAL CONTRACTOR, ARCHITECT, ENGINEER OR OWNER, IN WRITING OF ANY WORK CALLED OUT ON THE DRAWINGS IN HIS TRADE THAT CANNOT BE GUARANTEED OR PERFORMED AS
- INDICATED. THE CONTRACTOR SHALL COORDINATE ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AS TO WEIGHTS AND EXACT LOCATIONS, WITH STRUCTURAL SUPPORTS. IN THE EVENT THAT THE PURCHASED EQUIPMENT DEVIATES IN WEIGHT AND LOCATION FROM THOSE INDICATED ON THE PLANS, THE ARCHITECT AND ENGINEER MUST BE NOTIFIED AND APPROVAL OBTAINED PRIOR TO INSTALLATION.
- THIS STRUCTURE IS DESIGNED AS A STABLE UNIT AFTER ALL COMPONENTS ARE IN PLACE. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY BRACING AS REQUIRED TO INSURE THE VERTICAL AND LATERAL STABILITY OF THE ENTIRE STRUCTURE, OR ANY PORTION THEREOF, DURING CONSTRUCTION. NEITHER THE OWNER NOR THE ARCHITECT NOR THE ENGINEER WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND
- MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND BRACING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS. TRADE NAMES AND MANUFACTURERS REFERRED TO ARE FOR QUALITY STANDARDS ONLY. SUBSTITUTIONS WILL BE PERMITTED AS APPROVED BY THE ENGINEER
- 11. ANY OPTIONS OR APPROVED SUBSTITUTIONS ARE FOR CONTRACTORS CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES. ADDITIONAL COSTS (INCLUDING REDESIGN BY THE ENGINEER), AND COORDINATION WITH ALL ITEMS THAT THE SUBSTITUTIONS MAY IMPACT.
- THE ARCHITECT AND ENGINEER ARE TO BE NOTIFIED IN WRITING WHEN CONSTRUCTION AT THE SITE BEGINS. 13. ANY QUESTIONS RELATED TO INTERPRETATION OR INTENT OF THESE DRAWINGS SHALL
- BE REFERRED TO THE ENGINEER. 14. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO LOCATE AND PROJECT ANY EXISTING UNDERGROUND OR CONCEALED CONDUIT, PLUMBING, OR OTHER UTILITIES
- PRIOR TO BEGINNING ANY WORK. 15. PIPES, DUCTS, SLEEVES, CHASES, ETC. SHALL NOT BE PLACED IN BEAMS OR WALLS UNLESS SPECIFICALLY SHOWN OR NOTED. NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR PIPES, DUCTS, ETC. UNLESS NOTED CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATION OF ANY ADDITIONAL PIPES, DUCTS, ETC.



SHOP DRAWINGS AND

- ENGINEER FOR EACH STRUCTURAL BUILDING MATERIAL AS INDICATED IN THE STRUCTURAL GENERAL NOTES AND THE CONTRACT SPECIFICATIONS. SEE THE CONTRACT SPECIFICATIONS FOR SUBMITTAL PROCEDURES AND ADDITIONAL INFORMATION SHOP DRAWINGS SHALL USE DRAFTING LINE WORK AND LETTERING THAT IS CLEARLY LEGIBLE. SHOP DRAWINGS SHALL NOT CONTAIN NO REPRODUCTIONS OF THE CONTRACT DRAWING PLANS OR DETAILS.
- SUBMIT SHOP DRAWINGS IN PDF FORMAT.
- SHOP DRAWINGS SHALL NOT SHOW MATERIALS FOR MORE THAN ONE LEVEL OF THE SAME PLAN
- SHOP DRAWINGS SHALL SHOW CLEAR AND COMPLETE INFORMATION FOR THE FABRICATION (DETAIL SHEETS AND/OR MATERIAL LISTS) AND INSTALLATION. ALLOW A MINIMUM OF (2) WEEKS FOR REVIEW OF EACH SET OF SHOP DRAWINGS.
- CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS SUBMITTED BY THE SUB-CONTRACTOR AND COORDINATE SHOP DRAWINGS WITH ALL OTHER TRADING. 8. CONTRACTOR SHALL ANSWER ALL QUESTIONS OR CLARIFICATIONS BY THE SUB-CONTRACTOR BEFORE SUBMITTING TO ENGINEER FOR REVIEW. ANY QUESTIONS THAT THE CONTRACTOR CANNOT ANSWER WITH THE INFORMATION ON THE DRAWINGS SHALL
- CLEARLY BE MARKED FOR THE ENGINEER FOR REVIEW. 9. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS. SEE NOTE NUMBER 3 UNDER GENERAL NOTES. REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS FOR GENERAL CONFORMANCE TO
- THE STRUCTURAL DRAWINGS. REVIEW OF THE SHOP DRAWINGS BY THE ENGINEER DOES NOT RELIEF THE CONTRACTOR FOR ANY ERRORS IN DIMENSIONS OR MATERIALS INDICATED ON THE SHOP DRAWINGS. IF THERE IS ANY DISCREPANCY BETWEEN THE STRUCTURAL DRAWINGS AND SHOP DRAWINGS, THE INFORMATION SHOWN ON THE STRUCTURAL DRAWINGS GOVERN.
- INFORMATION THAT IS NOT INDICATED ON THE SHOP DRAWINGS SHALL BE OBTAINED FROM THE STRUCTURAL DRAWINGS. PROVIDE SUBMITTALS FOR THE FOLLOWING ITEMS:
- ITEM A. CONCRETE MIX DESIGN

H. PRE-MANUFACTURED WOOD TRUSSES

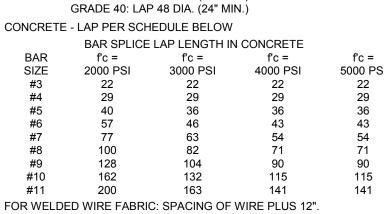
- B. CURING COMPOUND FOR CONCRETE REINFORCING STEEL
- D. STRUCTURAL STEEL . STEEL JOIST
- METAL DECKING (INDICATE LAYOUT AND TYPES OF DECK PANELS. ANCHORAGE DETAILS, REINFORCING CHANNELS, PANS, DECK OPENINGS, SPECIAL JOINTING, ACCESSORIES, AND ATTACHMENTS TO OTHER
- CONSTRUCTION.) . PRE-MANUFACTURED METAL BUILDING (INCLUDE CALC'S & REACTIONS)

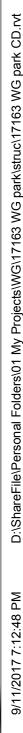
REINFORCING

- BAR REINFORCEMENT SHALL CONFORM TO THE FOLLOWING GRADES OF ASTM A615. INCLUDING SUPPLEMENT S1. GRADE 40 - #3 AND SMALLER GRADE 60 - #4 AND LARGER. DETAILS OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH CHAPTER 7 OF THE AMERICAN CONCRETE INSTITUTE (ACI) 318, UNLESS OTHERWISE NOTED. VERTICAL REINFORCEMENT SHALL BE TIED OR OTHERWISE FIXED IN POSITION AT THE TOP AND BOTTOM AND AT INTERMEDIATE LOCATIONS, SPACED NOT GREATER THAN 192 BAR DIAMETERS OR 48" O.C. WHICH EVER IS LESS. IN MASONRY CONSTRUCTION, THE REINFORCEMENT SHALL BE SECURED IN PLACE WITH REBAR SPACERS AND SHALL NOT BE SPACED APART MORE THAN 48 INCHES ON CENTER. WELDED STEEL WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A185 WALLS. PILASTER. COLUMNS SHALL BE DOWELED TO THE SUPPORTING FOOTINGS WITH REINFORCEMENT OF THE SAME SIZE, GRADE AND AT THE SAME SPACING AS THE VERTICAL REINFORCEMENT IN THE WALLS, PILASTER, OR COLUMNS. BAR SUPPORTS SHALL BE PROVIDED IN ACCORDANCE WITH THE PROVISIONS OF "BAR SUPPORT SPECIFICATIONS" AS CONTAINED IN THE LATEST EDITION OF THE "MANUAL OF STANDARD PRACTICE" BY THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI). PLASTIC CHAIRS ARE NOT ALLOWED. FOR SLAB ON GRADE AND GRADE BEAMS, USE CONCRETE BRICK CHAIRS
- REINFORCING STEEL DETAILING, BENDING AND PLACING SHALL BE IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE", LATEST
- 8. ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE BEFORE PLACING CONCRETE OR GROUT; INCLUDING EXTERIOR DOWELS FOR CMU OR CONCRETE WALLS. PROVIDE CORNER BARS TOP AND BOTTOM AT ALL BEAM CORNERS AND DEAD END BEAM INTERSECTIONS. BARS TO EQUAL SIZE AND QUANTITY OF THE NOTED BEAM STEEL. BARS
- SHALL LAP BEAM REINFORCEMENT 40 BAR DIAMETERS 10. BARS DETAILED AS CONTINUOUS SHALL BE LAPPED 40 BAR DIAMETERS AT SPLICES. 11. EXTEND THE SLAB REINFORCING STEEL, PERPENDICULAR TO BEAM. TO THE TOP OUTSIDE REINFORCING BAR OF PERIMETER BEAMS. START THE SLAB REINFORCING STEEL, PARALLEL TO BEAM, NOT MORE THAN 6" FROM THE TOP INSIDE REINFORCING BAR OF PERIMETER
- 12 PROVIDE #4 "7" BARS AT 12" ON CENTER WHERE THE SLAB STEPS DOWN MORE THAN 3" THE 7" BARS SHALL LAP THE MAIN SLAB REINFORCING STEEL 40 BAR DIAMETERS
- 13. ALL CONDUIT OR PLUMBING LINES IN SLAB SHALL BE PLACED BELOW SLAB REINFORCING ALL CONDUIT TO BE NO GREATER THAN 1" DIAMETER AND TO BE PLACED IN CENTER OF SLAB. NO PLUMBING LINES GREATER THAN 1 INCH ALLOWED IN THE SLAB. 14. WELDING OF CROSSING BARS AND TACK WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED
- PERFORMED IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE REINFORCING STEEL ON THE AMERICAN WELDING SOCIETY AWS D1 4-96 AS INCORPORATED IN CBC. CHAPTER No. 19. AND BY CERTIFIED WELDERS QUALIFIED USING PROCEDURES CONTAINED THEREIN, E70XX ELECTRODES SHALL BE USED IN WELDING GRADE 60 REINFORCEMENT. REINFORCEMENT SHALL NOT BE WELDED UNTIL A CHEMICAL ANALYSIS SUFFICIENT TO DETERMINE THE CARBON EQUIVALENT (C.E.) IS PERFORMED. THE C.E. OF REINFORCING STEEL SHALL BE CALCULATED FORM THE CHEMICAL COMPOSITION AS SHOWN IN THE MILL TEST REPORT. IF MILL TEST REPORTS ARE NOT AVAILABLE, A CHEMICAL ANALYSIS SHALL BE MADE ON REINFORCEMENT REPRESENTATIVE OF THOSE TO BE WELDED. THE C.E. SHALL
- NOT EXCEED 0.55 AS CALCULATED PER IBC CHAPTER 19 A COPY OF THE MILL TEST OF REINFORCING STEEL IN CONCRETE MEMBERS. (SPECIAL INSPECTION IS REQUIRED FOR ALL FIELD WELDING). 16. CONTRACTOR SHALL SUBMIT REINFORCING STEEL SHOP DRAWINGS FOR REVIEW BEFORE FABRICATION AND INSTALLATION. 17. CONCRETE COVER FOR REINFORCING AS FOLLOWS:

EXPOSURE CONDITION	MINIMUM COVER	TOLERANCE
DRILLED PIERS, FOOTINGS AND OTHER PRINCIPAL STRUCTURAL		
MEMBERS IN WHICH CONCRETE IS DEPOSITED AGAINST GROUND:	3"	3/8"
WHERE CONCRETE SURFACES, AFTER REMOVAL OF FORMS,		
ARE EXPOSED TO WEATHER OR GROUND:		
FOR BARS 5/8" IN DIAMETER	2"	1/4"
FOR BARS 5/8" OR LESS IN DIAMETER	1 1/2"	1/4"
WHERE SURFACES ARE NOT DIRECTLY EXPOSED TO WEATHER		
OR GROUND:		
FOR SLAB ON GRADE (FROM TOP OF SLAB)	1 1/2"	1/4"
FOR BEAMS, COLUMNS	1 1/2"	1/4"
FOR JOISTS AND SLABS	1"	1/8"

18. LAPS AT BAR SPLICES, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS: MASONRY - GRADE 60: LAP 50 DIA. (30" MIN.)





S	TRUCT	URAL

REQUIR

1. MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE LATEST EDITION OF THE AISC

		SPECIFICATIONS FOR THE DESIGN, FABRICATION, A STEEL FOR BUILDINGS.	ND ERECTION OI	F STRUCTURAL
	2.	STRUCTURAL STEEL SHALL COMPLY WITH THE FOL		
	Ζ.	MATERIAL	DESIGNA	
		ANCHOR BOLTS	A36	Fy=36 ksi
		PLATES	A36	Fy=36 ksi
		ANGLES	A36	Fy=36 ksi
		CHANNELS	A36	Fy=36 ksi
		WIDE FLANGE SHAPES	A30	Fy=50 ksi
1		STEEL PIPE		
N.		STEEL FIFE SQUARE & RECT. STEEL TUBES (HSS)		DE B Fy=35 ksi
		· · · · ·		ADE B Fy=46 ksi
	3.	_ROUND TUBES (HSS) ALL STRUCTURAL STEEL SHALL BE FABRICATED, EF		NDE BFy=42 ksi
	5.	ACCORDANCE WITH THE SPECIFICATIONS FOR THE		
		ERECTION OF STRUCTURAL STEEL FOR BUILDINGS		-
		CODE OF STANDARD PRACTICE, LATEST EDITION A		
		INSTITUTE OF STEEL CONSTRUCTION, AMENDED AS		
		SECTION 4.2.1, DELETE FIRST TWO SENTENCE	-	
		SECTION 7., ALL REFERENCE TO OWNER SHAL		
		SECTION 7.9.3, THE CONTRACTOR SHALL PRO		
		PLACEMENT OF NON-SELF SU		-
		SECTION 7.9.4, THE CONTRACTOR TO DESIGN		
	4.	WELDING SHALL BE DONE IN ACCORDANCE WITH T		
		GAS WELDING IN BUILDING CONSTRUCTION AS PUE	-	
		SOCIETY, EXCEPT THAT ALL WELDING SHALL BE DO		
		ALL WELDING SHALL BE PERFORMED BY CERTIFIED	WELDERS AND	SHALL CONFORM
	_	TO ANSI/AWS D1.1-04		
	5.	DETAILED AND OR SCHEDULED CONNECTIONS HAV		
		ENGINEER. ANY CONNECTION NOT DETAILED OR S		
ED		FABRICATION PURPOSES SHALL BE SIZED AND DET		
		BE MARKED FOR ENGINEER'S VERIFICATION. FABR		
		CONNECTIONS SHALL SUPPORT ONE HALF THE TO		
		SHOWN IN THE TABLES OF UNIFORM CONSTANTS, F		
		STEEL CONSTRUCTION FOR THE GIVEN BEAM, SPAI		
		THE EFFECT OF ANY CONCENTRATION LOADS MUS		
	6.	SEE ARCHITECTURAL PLANS FOR MISCELLANEOUS		
		STRUCTURAL DRAWINGS. STEEL ITEMS SHOWN ON		
		NOT SPECIFIED ON THE STRUCTURAL DRAWINGS S	HALL BE DESIGN	BY THE STEEL
		FABRICATOR. SEE DESIGN CRITERIA FOR LOADING.		
	7.	ALL WELDED CONNECTIONS SHALL BE MADE USING		
	8.	ALL BOLTED CONNECTIONS SHALL BE MADE USING	3/4" DIAMETER H	IIGH STRENGTH
		BOLTS, ASTM A325, BEARING TYPE CONNECTION w/		
		DESIGN DRAWINGS. SPECIAL INSPECTION REQUIRE	ED FOR ALL HIGH	STRENGTH BOLTING.
		ALL NUTS SHALL BE PER ASTM A563		
	9.	ALL CONNECTION PLATES AND STIFFENERS SHALL	BE MADE WITH 1	/4" THICK PLATES,
		UNLESS OTHERWISE NOTED ON PLANS.		
	10	ALL STEEL (INCLUDING BOLTS) EXPOSED TO THE W		

- GALVANIZED. (INCLUDES STEEL THAT IS ONLY COVERED WITH PLASTER OR STUCCO). SEE ARCHITECTURAL PLANS IF STRICTER REQUIREMENTS ARE REQUIRED. 11. ALL EXPOSED STEEL SHALL FOLLOW SECTION 10 OF THE CODE OF STANDARD PRACTICE
- OF AISC. SECTION 10 OF THE CODE ADDRESSES ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) CONNECTIONS SHALL BE PER HOLLOW STRUCTURAL SECTIONS, CONNECTION MANUAL BY AISC WHERE STEEL MEMBER PASS THROUGH CMU WALLS, PROVIDE HALF INCH GAP BETWEEN THE CMU AND THE STEEL MEMBER. PROVIDE ELASTOMERIC MATERIAL BETWEEN THE THE STEEL MEMBER AND CMU WALL
- 14. ALL BEAMS NOT SHOWN SHALL BE W14x26. ALL COLUMNS NOT SHOWN SHALL BE HSS4x4x1/4. 15. STEEL SHOP SHALL BE AISC CERTIFIED.
- HOLES FOR BOLTS IN STRUCTURAL STEEL SHALL BE DRILLED OR PUNCHED. BURNING OF HOLES SHALL NOT BE PERMITTED. UNLESS NOTED OTHERWISE, HOLES SHALL BE STANDARD SIZE 1/16 INCH LARGER THAN THE BOLT
- ALL STRUCTURAL STEEL SHAPES SHALL BE PRIMED WITH A RUST RESISTANT PRIMER BEFORE SHIPMENT TO THE PROJECT SITE. PRIMER SHALL NOT BE APPLIED TO THE IMMEDIATE AREA OF STEEL INTENDED TO RECEIVE SLIP CRITICAL BOLTED CONNECTIONS HIGH STRENGTH BOLTS INSTALLATION SHALL BE CONTINUOUSLY INSPECTED BY A SPECIAL INSPECTOR. FOLLOWING ARE REQUIREMENTS OF THE SPECIAL INSPECTOR:
- A. HE SHALL VERIFY THE MILL CERTIFICATES FOR MATERIAL. B. HE SHALL VERIFY THAT THE MATERIAL USED ARE PROPERLY STORED AND PREPARED FOR USE.
- C. HE SHALL VERIFY THAT CONSTRUCTION DETAILS, PROCEDURES, TOOL CALIBRATIONS WORKMANSHIP ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND AND BUILDING CODE.
- D. FOR SNUG-TIGHT CONNECTIONS, HE SHALL VERIFY THAT THE PLIES OF THE CONNECTED ELEMENTS HAVE BEEN BROUGHT INTO SNUG CONTACT WITH EACH OTHER.
- E. FOR SLIP-TIGHT CONNECTIONS, HE SHALL VERIFY THE PRETENSION METHOD SELECTED BY THE CONTRACTOR HAS INDUCED THE REQUIRED MINIMUM TENSION IN THE BOI T
- F. A CERTIFICATE OF INSPECTION SHALL BE FURNISHED BY THE SPECIAL INSPECTOR TO THE BUILDING OFFICIAL PRIOR TO HIS INSPECTION AND TO THE ARCHITECT
- AND ENGINEER. 15. WELDING OF REINFORCING STEEL, IF PERMITTED BY THE STRUCTURAL ENGINEER, SHALL BE 19. WELDING IN THE FIELD SHALL BE CONTINUOUSLY INSPECTED, BY A SPECIAL INSPECTOR FOLLOWING ARE REQUIREMENTS OF THE SPECIAL INSPECTOR: A. HE SHALL VERIFY THAT THE MATERIAL USED ARE PROPERLY STORED AND PREPARED FOR USE.
 - B. HE SHALL VERIFY THE WELDER'S QUALIFICATIONS. C. HE SHALL VERIFY THAT CONSTRUCTION DETAILS, PROCEDURES AND WORKMANSHIP ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND BUILDING CODE.

21. AT ALL TUBES. PROVIDE 3/8" THICK END PLATE. U.N.O.

D. A CERTIFICATE OF INSPECTION SHALL BE FURNISHED BY THE SPECIAL INSPECTOR TO THE BUILDING OFFICIAL PRIOR TO HIS INSPECTION AND TO THE ARCHITECT AND ENGINEER 0. ALL NON SHRINK GROUT FOR LEVELING OF BASE PLATES SHALL HAVE A MINIMUM 5000 PSI OMPRESSIVE STRENGTH AT 28 DAYS. GROUT SHALL COMPLY WITH CORPS OF ENGINEERS SPECIFICATION CRD-C 621.

ALLOWANC

 IN ADDITION TO THE MATERIAL SHOWN, THE CONTRACTOR TO PROVIDE ADDITIONAL MATERIAL, FOR USE ON THE PROJECT AS DIRECTED BY THE STRUCTURAL ENGINED FIELD REPRESENTATIVE. THE ALLOWANCE COST SHALL INCLUDE MATERIAL COST, LABOR COSTS AND PLACEMENT AT THE SITE. REMAINING BALANCE AT THE END OF THE PROJECT SHALL BE RETURNED/CREDITE BACK TO THE OWNER. THE ALLOWANCE SHALL APPEAR ON THE SCHEDULE OF VALUE AS A LINE ITEM. 			
	MATERIAL	ALLOWANCE	
		ALLOWANCE	_
	CONCRETE REINFORCING STEEL STRUCTURAL STEEL CMU	2 CU. YD. 1000 LBS 2000 LBS 20 SQ. FT.	

SPECIAL NOTES TO 1. UNDER NORMAL CONDITIONS, AND FOR CONVENTIONAL BUILDINGS SUCH AS THE SUBJECT

- MATTER, REINFORCED CONCRETE AND MASONRY DEVELOP CRACKS. THE CRACKS ARE DUE TO INHERENT SHRINKAGE OF CONCRETE, CREEP AND RESTRAINING EFFECTS OF VERTICAL AND OTHER STRUCTURAL ELEMENTS TO WHICH THE BEAMS/SLABS ARE TIED. THE CRACKS FORMED ARE NORMALLY COSMETIC. THE SLAB MAINTAINS ITS Serviceability AND STRENGTH REQUIREMENTS. IT IS EMPHASIZED THAT ALTHOUGH SPECIAL EFFORT IS MADE TO REDUCE THE POTENTIAL CAUSES AND NUMBER OF SUCH CRACKS, IT IS NOT PRACTICAL TO
- PROVIDE TOTAL ARTICULATION BETWEEN THE FLOOR SYSTEM AND ITS SUPPORTS AND THEREBY ACHIEVE COMPLETE INHIBITION OF ALL CRACKS. MOST SUCH CRACKS DEVELOP OVER THE FIRST THREE YEARS OF THE LIFE OF THE FLOOR
- SYSTEM. CRACKS WHICH ARE WIDER THAN 0.01 INCH MAY NEED TO BE PRESSURE EPOXIED. REFER TO THE NOTES UNDER "ALLOWANCES" 4. THE OBJECT OF THE JOINTS PROVIDED IS TO ALLOW MOVEMENT. MOVEMENTS DUE TO CREEP AND SHRINKAGE MAY BE NOTICEABLE AT JOINTS UP TO TWO YEARS AFTER CONSTRUCTION, BEYOND WHICH MOVEMENTS DUE TO VARIATIONS IN TEMPERATURE WILL

CAST-IN-PLACE

- 1. VERIFY ALL DIMENSIONS. COORDINATE WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT AND/OR ENGINEER OF ANY DISCREPANCIES. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE SPECIFICATIONS, ACI #301-05, OR LATEST EDITION. DRILLED PIERS SHALL COMPLY WITH ACI 336.1-01 AND ACI 336.3R-05 ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS, ACCESSORIES UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE", ACI #315 LATEST EDITION THE MINIMUM 28 DAYS CYLINDER STRENGTH SHALL BE AS FOLLOWS: STRENGTH MAXIMUM SIZE OF LARGE WATER/CEMEN LOCATION AT 28 DAYS SLUMP AGGREGATE RATIO 3000 PSI 1 1/2" FOUNDATIONS 0.55 SLAB ON GRADE 3000 PSI 1 1/2" 0.55 GRADE BEAMS 3000 PSI 1 1/2" 0.55 3000 PSI 0.55 I WALL 5. NO HORIZONTAL CONSTRUCTION JOINTS WILL BE PERMITTED IN SLABS OR BEAMS. VERTICAL CONSTRUCTION JOINTS IN SLABS ARE TO BE AS SHOWN ON PLANS OR AS APPROVED BY ENGINEER TOR. 7. ALL OPENINGS IN SLAB (FOR PIPING, DRAINS, ETC.) SHALL BE SEALED WITH 1/2 SEALANT '2A' (SELF-LEVELING 2-PART POLYURETHANE). UTILITIES THAT PROJECT THROUGH SLAB FLOORS SHOULD BE DESIGNED WITH EITHER SOME DEGREE OF FLEXIBILITY OR WITH SLEEVES IN ORDER TO PREVENT DAMAGE TO THESE LINE SHOULD VERTICAL MOVEMENT OCCUR. 9. BACKFILL AROUND PERIMETER TO PROVIDE POSITIVE DRAINAGE AWAY FROM SLAB. FLOOR TOLERANCES F-NUMBER SYSTEM MINIMUM LOCAL VALUE COMPOSITE FLATNESS (F) F LEVELNESS (F) IN ALL INSTANCES MINIMUM SLAB THICKNESS SHALL BE OBTAINED. COORDINATE SLAB FINISHES WITH ARCHITECTURAL PLANS. 11. ANCHOR BOLTS, DOWELS, INSERTS, ETC. SHALL BE SECURELY TIED IN PLACE PRIOR TO PLACING CONCRETE. 12. REFER TO ARCHITECTURAL. MECHANICAL. PLUMBING, AND ELECTRICAL DRAWINGS FOR ALL MOLDS, GROOVES, REGLETS, ORNAMENTAL CLIPS, PIPES, CONDUITS, INSERTS, ETC. TO BE CAST IN CONCRETE. PROVIDE OVERSIZED SLEEVES FOR PLUMBING AND ELECTRICAL CONDUITS AND PIPES. NO PIPES OR DUCTS SHALL BE PLACED IN CONCRETE, FOOTINGS, OR SLAB UNLESS SPECIFICALLY DETAILED IN THESE PLANS, OR AS DIRECTED BY THE ENGINEER. 13. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED. CONCRETE TESTING SHALL BE ONE SET OF CYLINDERS FOR EVERY 50 CUBIC YARDS OR PORTION THEREOF FOR EACH TYPE OF CONCRETE POURED ON ANY GIVEN DAY. ONE SET CONSISTS OF 2 CYLINDERS TESTED FOR COMPRESSION AT 7 DAYS AND 2 CYLINDERS AT 28 DAYS. 15. VAPOR RETARDANT A. VAPOR RETARDANT (UNDER SLAB): SHALL CONFORM TO ASTM E1745, CLASS A OR BETTER AND SHALL HAVE A MINIMUM WATER VAPOR PERMEANCE OF 0.01 PERMS WHEN TESTED IN ACCORDANCE WITH ASTM E96. VAPOR RETARDANT SHALL BE NOT LESS THAN 15 MILS THICK. APPROVED PRODUCTS A. STEGO WRAP BY STEGO INDUSTRIES LLC. (887) 464-7834 3. GRIFFOLYN T-65 BY REEF INDUSTRIES (800) 231-6074. C. RUFCO D16WB BY RAVEN IND. AT TEXAS ENVIRONMENTAL PLASTIC: (281) 821-7320. INSTALLATION A. LAY SHEETS SMOOTHLY, STRETCH AND WEIGHT EDGES, LAP JOINTS TWELVE (12) INCHES AND SEAL WITH TAPE AS SPECIFIED BY VAPOR RETARDANT MANUFACTURER. TURN BARRIER UP SIX 6 INCHES AT WALLS AND AT ALL PIPES. ABUTMENTS. ETC. TAPE AND SEAL AT PENETRATIONS AND AT EDGES. B. AT GRADE BEAMS. EXTEND VAPOR RETARDANT DOWN SIDES OF BEAM TRENCHES (AND FOOTING EXCAVATIONS) TO WITHIN 4" OF TRENCH BOTTOM AND SECURE TO SIDES OF TRENCH. DO NOT EXTEND RETARDANT ACROSS BOTTOM OF BEAM TRENCH. PATCHING
 - ALL CONDUIT OR PLUMBING LINES IN SLAB SHALL BE PLACED BELOW SLAB REINFORCING. ALL CONDUITS OR PLUMBING LINES SHALL NOT BE GREATER THAN 1 INCH DIAMETER AND SHALL BE PLACED NEAR THE CENTER OF THE SLAB AS MUCH AS POSSIBLE.

A. PATCH ALL PUNCTURES WITH A MINIMUM OVERLAP OF 6" IN ALL DIRECTIONS AND

- A. PRE-INSTALLATION CONFERENCE: AT LEAST 30 DAYS PRIOR TO THE START OF THE CONCRETE SLAB CONSTRUCTION SCHEDULE, THE CONTRACTOR SHALL CONDUCT A MEETING TO REVIEW THE PROPOSED MIX DESIGNS AND TO DISCUSS THE REQUIRED METHODS AND PROCEDURES TO ACHIEVE THE REQUIRED CONCRETE CONSTRUCTION. THE CONTRACTOR SHALL SEND A PRE-CONCRETE CONFERENCE AGENDA TO ALL ATTENDEES 20 DAYS PRIOR TO
- THE SCHEDULED DATE OF THE CONFERENCE. THE CONTRACTOR SHALL REQUIRE RESPONSIBLE REPRESENTATIVES OF EVERY PARTY CONCERNED WITH THE CONCRETE WORK TO ATTEND THE CONFERENCE, INCLUDING BUT NOT LIMITED TO THE FOLLOWING A) CONTRACTOR'S SUPERINTENDENT
- B) LABORATORY RESPONSIBLE FOR CONCRETE MIXES AND/ OR FIELD QUALITY CONTROL C) READY-MIX CONCRETE PRODUCER
- D) CONCRETE SUBCONTRACTOR E) ADMIXTURE MANUFACTURER(S)

TAPE AROUND ENTIRE PERIMETER OF REPAIR.

- F) LIQUID DENSIFIER AND SEALER MANUFACTURER G) LIQUID DENSIFIER AND SEALER APPLICATION
- H) JOINT FILLING APPLICATOR MINUTES OF THE MEETING SHALL BE RECORDED, TYPED AND PRINTED BY THE CONTRACTOR AND DISTRIBUTED BY HIM TO ALL CONCERNED PARTIES, INCLUDING THE OWNER'S REPRESENTATIVE. THE ARCHITECT, AND THE STRUCTURAL ENGINEER WITHIN FIVE DAYS OF THE MEETING.
- CONCRETE SUBCONTRACTOR QUALIFICATION:
- THE CONCRETE SUBCONTRACTOR SHALL INCLUDE IN THEIR BID PACKAGE TO THE CONTRACTOR, SUFFICIENT DATA THAT CLEARLY INDICATES THE CONCRETE CONTRACTOR'S ABILITY TO SUCCESSFULLY PERFORM THE WORK AND TO ACHIEVE THE FLOOR SLAB TOLERANCES SPECIFIED IN THIS SECTION. THE CONCRETE SUBCONTRACTOR'S TEAM SHALL HAVE PARTICIPATED IN THE MAJORITY OF THESE PROJECTS, AND THAT TEAM SHALL REMAIN THE SAME THROUGH THE DURATION OF THIS PROJECT.
- CONCRETE MATERIAL: PORTLAND CEMENT: ASTM C 150, TYPE I. USE ONE BRAND OF CEMENT
- THROUGHOUT THE PROJECT. COARSE AND FINE AGGREGATES: ASTM C33. COMBINED AGGREGATE GRADATION FOR SLABS ON GRADE AND OTHER DESIGNATED CONCRETE SHALL BE 8% - 18% FOR LARGE TOP AGGREGATES (1 1/2") OR 8% - 22% FOR SMALLER TOP SIZE AGGREGATES (1" OR 3/4") RETAINED ON EACH SIEVE BELOW THE TOP SIZE AND ABOVE THE NO. 100 SIEVE. SLABS ON GRADE SHALL HAVE A MAXIMUM AGGREGATE SIZE OF 1-1/2" FOOTINGS AND PIERS 1" AND BEAMS 3/4".
- WATER: COMPLYING WITH ASTM C 94. ALL CONCRETE SHALL CONTAIN "POZZOLITH" ADMIX AS PER MANUFACTURER'S SPECIFICATIONS, IN ACCORDANCE WITH ASTM C494. ADMIXTURES:
- AIR-ENTRAINING ADMIXTURES: SHALL CONFORM TO ASTM C-260. ADMIXTURE MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION THAT THE AIR-ENTRAINING ADMIXTURE IS COMPATIBLE WITH OTHER REQUIRED ADMIXTURES. ALL EXTERIOR SLABS SHALL BE AIR-ENTRAINED (4% - 6%). ACCEPTABLE PRODUCTS: EUCLID CHEMICAL AEA-92 AND AIRMIX 200, MASTER BUILDERS MICROAIR, W.R. GRACE DARAVAIR 1000 AND DAREX-11
- NOTE: AIR-ENTRAINING ADMIXTURE SHALL NOT BE USED ON INTERIOR CONCRETE. WATER-REDUCING ADMIXTURE: SHALL CONFORM TO ASTM C494, TYPE A AND CONTAIN NOT MORE THAN 0.05% CHLORIDE IONS. ACCEPTABLE PRODUCTS: EUCLID CHEMICAL WR-89 AND WR-91 MASTER BUILDERS 200N AND 322N W R GRACE WRDA 36 AND WRDA 64.
- WATER REDUCING, RETARDING ADMIXTURE: SHALL CONFORM TO ASTM C494, TYPE D, AND CONTAIN NOT MORE THAN 0.05% CHLORIDE IONS. ACCEPTABLE PRODUCTS: EUCLID CHEMICAL RETARDER 75, MASTER BUILDERS POZZOLITH R, W.R. GRACE DARATARD 17.
- HIGH RANGE WATER-REDUCING ADMIXTURE (SUPERPLASTICIZER): SHALL CONFORM TO ASTM C494, TYPE F OR TYPE G AND CONTAIN NOT MORE THAN 0.05% CHLORIDE IONS. ACCEPTABLE PRODUCTS : EUCLID CHEMICAL EUCON 37, MASTER BUILDERS REOBUILD 1000 W.R. GRACE DARACEM - 1000. WATER-REDUCING. NON-CORROSIVE ACCELERATING ADMIXTURE: SHALL CONFORM TO
- ASTM C494, TYPE C OR E, AND CONTAIN NOT MORE CHLORIDE IONS THAN ARE PRESENT IN MUNICIPAL DRINKING WATER. THE ADMIXTURE MANUFACTURER MUST HAVE LONG-TERM, NON-CORROSIVE TEST DATA FROM AN INDEPENDENT TESTING LABORATORY (OF AT LEAST A YEAR'S DURATION) USING AN ACCEPTABLE ACCELERATED CORROSION TEST METHOD SUCH AS THAT USING ELECTRICAL POTENTIAL MEASURES. ACCEPTABLE PRODUCTS: EUCLID CHEMICAL ACCELGUARD 80/90 AND ACCELGUARD NCA, MASTER BUILDERS NC534 AND POZZUTEC 20, W.R. GRACE POLARSET
- PROHIBITED ADMIXTURES: a.) CALCIUM CHLORIDE OR ADMIXTURES CONTAINING MORE THAN 0.05% CHLORIDE IONS ARE NOT PERMITTED. b.) FLYASH; A MAXIMUM OF 20% AS CEMENT REPLACEMENT ALLOWED

EVAPORATION RETARDER:

1. WATERBORNE, MONOMOLECULAR FILM FORMING, MANUFACTURED FOR APPLICATION TO FRESH CONCRETE. a.) ACCEPTABLE PRODUCTS: "EUCOBAR" BY THE EUCLID CHEMICAL COMPANY - CONTACT: PHIL BRANDT (877) 438-3826

CURING MATERIALS: EXTERIOR CURING: ALL EXTERIOR CONCRETE SLABS SHALL BE CURED USING A LIQUID MEMBRANE-FORMING CURING COMPOUND. THE LIQUID MEMBRANE-FORMING CURING COMPOUND SHALL MEET THE REQUIREMENTS OF ASTM C 1315 WITH A MAXIMUM V.O.C. CONTENT OF 700 G/L a) ACCEPTABLE PRODUCTS

"SUPER REZ SEAL" BY EUCLID CHEMICAL COMPANY - CONTACT PHIL BRANDT (877) 438-3826 INTERIOR CURING: ALL INTERIOR CONCRETE SLABS SHALL BE CURED USING A REDUCED ODOR, DISSIPATING LIQUID MEMBRANE FORMING CURING COMPOUND THAT IS FORMULATED FROM HYDROCARBON RESINS. THE DISSIPATING LIQUID MEMBRANE FORMING CURING COMPOUND SHALL MEET THE REQUIREMENTS OF ASTM C-309 AND V O C. CONTENTS IN ACCORDANCE TO EPA 40 CER. PART 59, TABLE I SUBPART D FOR CONCRETE CURING COMPOUNDS WITH A MAXIMUM V.O.C. CONTENT OF 350 G/L. APPLY AT 400 S.F./GALLON. a.) ACCEPTABLE PRODUCTS: "KUREZ DR VOX" BY THE EUCLID CHEMICAL COMPANY - CONTACT PHIL BRANDT

(877) 438-3826 ALL CONCRETE SLABS SHALL ALSO BE MAINTAINED MOIST FOR 7 DAYS

CONCRETE MIXES

4

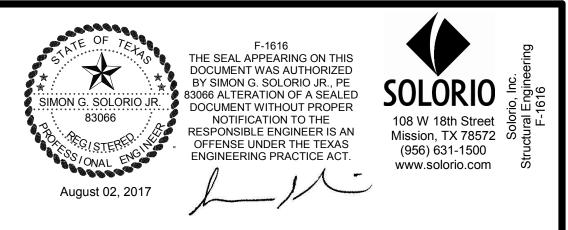
COMPLY WITH ACI 301 REQUIREMENTS FOR CONCRETE MIXTURE, U.N.O.. PREPARE DESIGN MIXES SIGNED AND SEALED BY A PROFESSIONAL ENGINEER. PROPORTIONED ACCORDING TO ACI 301, FOR NORMAL WEIGHT CONCRETE DETERMINED BY EITHER LABORATORY TRIAL MIX OR FIELD TEST DATA AS FOLLOWS: CONCRETE MATERIALS INCLUDED IN THE MIX DESIGN SHALL BE THE SAME MATERIALS PROVIDED TO THE PROJECT, AND SHALL BE PREPARED BY AN INDEPENDENT TESTING LABORATORY APPROVED BY THE OWNER. THE LABORATORY MIX DESIGN SHALL NOT EXCEED THE DESIRED JOB STRENGTH OF CONCRETE BY 1,200 PSI. FOUR COPIES OF THE MIX DESIGN SHALL BE SUBMITTED TO THE OWNER BEFORE CONCRETE WORK

- 3. SLUMP: CONCRETE CONTAINING HRWR SHALL HAVE A MAXIMUM SLUMP OF 8" (200MM). ALL OTHER CONCRETE SHALL NOT EXCEED 4 INCHES (100 MM) UNLESS OTHERWISE INDICATED ON THE DRAWINGS ADJUSTMENT TO CONCRETE MIXES: MIX DESIGN ADJUSTMENTS MAY BE REQUESTED
- BY CONTRACTOR WHEN CHARACTERISTICS OF MATERIALS, JOB CONDITIONS, WEATHER, TEST RESULTS OR OTHER CIRCUMSTANCES WARRANT, AT NO ADDITIONAL COST TO OWNER AND AS ACCEPTED BY OWNER. LABORATORY TEST DATA FOR REVISED MIX DESIGN AND STRENGTH RESULTS MUST BE SUBMITTED TO AND ACCEPTED BY OWNER BEFORE USING IN WORK. BOTH THE CONCRETE TESTING AND INSPECTION AGENCY AND THE CONCRETE CONTRACTOR SHALL SATISFY THEMSELVES THAT THE CONCRETE MIX DESIGN WILL PRODUCE A CONCRETE WHICH WILL MEET THE SPECIFICATIONS FOR THIS PROJECT. IN ADDITION, THE CONTRACTOR AND CONCRETE FINISHER SHALL VERIFY THAT THE WORKABILITY, FINISHABILITY AND SETTING TIMES ARE APPROPRIATE FOR SLAB INSTALLATIONS. PLACEMENT SHALL BE MADE BY CHUTE DIRECTLY FROM THE CONCRETE TRUCKS. IF PUMPING OF THE CONCRETE IS CONTEMPLATED FOR ANY SPECIAL
- LOCATIONS, THE PROPORTIONS ESTABLISHED ABOVE SHALL NOT BE ALTERED TO SUIT THE CAPABILITIES OF THE PUMPING EQUIPMENT. READY MIX CONCRETE SHALL COMPLY WITH REQUIREMENTS OF ASTM C94. WHEN AIR TEMPERATURE IS BETWEEN 85° AND 90° F, REDUCE MIXING AND DELIVERY TIME FROM 90 MINUTES TO 75 MINUTES; WHEN AIR TEMPERATURE IS ABOVE 90° F, REDUCE MIXING AND DELIVERY TIME TO 60 MINUTES
- WATER CEMENT RATIO SHALL BE BASED ON SURFACE DRY MATERIAL. CONTRACTION JOINTS IN SLABS-ON-GRADE н FORM WEAKENED-PLANE CONTRACTION JOINTS, SECTIONING CONCRETE INTO AREAS AS INDICATED. CONSTRUCT CONTRACTION JOINTS FOR A DEPTH EQUAL TO AT LEAST
- ONE-FOURTH OF THE CONCRETE THICKNESS, AS FOLLOWS: SAWED JOINTS: ALL SAW CUTTING SHALL BE ACCOMPLISHED WITH A SOFT-CUT SAW AS SOON AS THE SLAB WILL SUPPORT THE WEIGHT OF THE SAW AND OPERATOR. NOTE: CONCRETE DUST SHALL BE REMOVED COMPLETELY AND IMMEDIATELY IF CHALK LINES ARE USED FOR SAW CUTS, ALL CHALK REMAINING ON SLAB SHALL BE REMOVED COMPLETELY AND IMMEDIATELY AFTER SAWING.
- FLOOR SLAB TOLERANCES: COMPLY WITH ACI 117, "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS." ALL INTERIOR FLOOR SLABS SHALL MEET THE REQUIREMENTS OF A TYPE 5, SINGLE COURSE, HARD STEEL - TROWELED FINISH AS DESCRIBED IN ACI 302.IR- LATEST EDITION.
- J. CONCRETE CURING AND PROTECTION:
- a) FIRST, ALL EXTERIOR CONCRETE SLABS SHALL BE CURED USING A LIQUID MEMBRANE- FORMING CURING COMPOUND TO BE APPLIED EVENLY AND UNIFORMLY PER MANUFACTURER'S INSTRUCTIONS AS SOON AS POSSIBLE AFTER FINAL FINISHING SURFACE SHALL BE DAMP, BUT NOT WET AND CAN NO LONGER BE MARRED BY A WALKING WORKMAN. ALL APPLICATIONS SHALL BE MADE BY AN APPLICATOR CERTIFIED BY THE MANUFACTURER, AND WHEN SURFACE AND AIR TEMPERATURE IS ABOVE 50° F. BEGIN CURING AFTER FINISHING CONCRETE, BUT NOT BEFORE FREE WATER HAS DISAPPEARED FROM CONCRETE SURFACE. CURING COMPOUND SHALL BE PLACED WITHIN FOUR (4) HOURS AFTER CONCRETE HAS BEEN PLACED.
- b) SECOND, CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES F AND IN A MOIST CONDITION FOR AT I FAST THE FIRST SEVEN (7) DAYS AFTER PLACEMENT. INTERIOR SLABS - CURING: FIRST, ALL INTERIOR CONCRETE SLABS SHALL BE CURED USING A LIQUID MEMBRANE-FORMING CURING COMPOUND TO BE APPLIED EVENLY AND UNIFORMLY PER MANUFACTURER'S INSTRUCTIONS AS SOON AS POSSIBLE AFTER FINAL FINISHING SURFACE SHALL BE DAMP, BUT NOT WET AND CAN NO LONGER BE MARRED BY A WALKING WORKMAN. ALL APPLICATIONS SHALL BE MADE BY AN APPLICATOR CERTIFIED BY THE MANUFACTURER, AND WHEN SURFACE AND AIR TEMPERATURE IS ABOVE 50° F BEGIN CURING AFTER FINISHING CONCRETE, BUT NOT BEFORE FREE WATER HAS DISAPPEARED FROM CONCRETE SURFACE. CURING COMPOUND SHALL BE PLACED WITHIN FOUR (4) HOURS AFTER CONCRETE HAS BEEN PLACED.
- b) SECOND, CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES F AND PONDED WITH WATER FOR SEVEN (7) DAYS AFTER CONCRETE PLACEMENT.) THIRD. CONCRETE SLABS SHALL BE CURED USING A LIQUID MEMBRANE- FORMING CURING COMPOUND TO BE APPLIED EVENLY AND UNIFORMLY PER MANUFACTURER'S INSTRUCTIONS. SURFACE SHALL BE DAMP, BUT NOT WET AND CAN NO LONGER BE MARRED BY A WALKING WORKMAN. ALL APPLICATIONS SHALL BE MADE BY AN APPLICATOR CERTIFIED BY THE MANUFACTURER, AND WHEN SURFACE AND AIR
- FEMPERATURE IS ABOVE 50° F INTERIOR SLAB PROTECTION: TAKE THE FOLLOWING MEASURES TO PROTECT FLOOR SLAB:
- A. WRAP OR "DIAPER" ALL MOTORIZED AND HYDRAULIC EQUIPMENT TO PREVENT FLUID LEAKS
- B. PROVIDE NON-MARKING TIRES ON RUBBER TIRED VEHICLES OR EQUIP RUBBER TIRES WITH TIRE BOOTS MADE OF NYLON FABRIC
- C. SOURCE FOR DIAPERS AND BOOTS: R&R TIRE SURFACE PROTECTORS, INC., FORT COLLINS CO 80526, (970) 266-4082 D. PROVIDE MATS AT ALL ENTRANCES TO PREVENT MUD STAINS.
- E. COVER SLAB PRIOR TO PAINTING. ALL SPILLS TO BE CLEANED WITH SOAP AND WATER. LACQUER THINNER WILL NOT BE ACCEPTABLE.

ABBREVIATION TYP

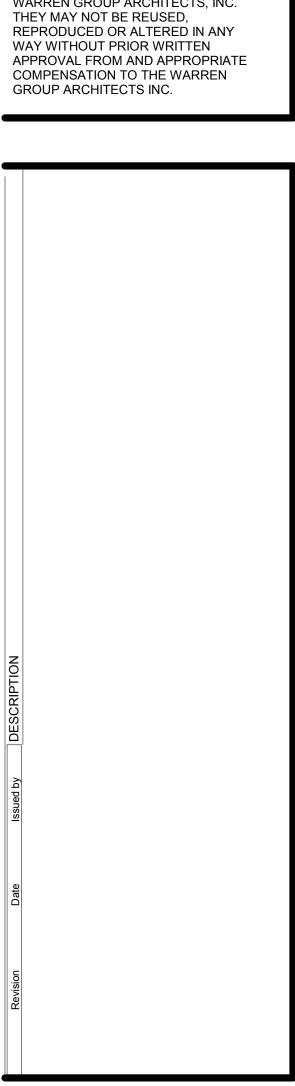
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Sheet List		
Sheet Number	Sheet Name	
S101	General Notes	
S102	General Notes	
S201	Foundation Plan	
S202	Foundation Plan	
S204	Foundation Plan	
S401	Typical Concrete Details	
S402	Foundation Details	
S403	Typical CMU Details	

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107 HIGHWAY AND SUNFLOWER ROAD EDINBURG, TEXAS 78539		
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ARCHITECTS, INC.

THE WARREN



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CODES AND SPECIFICATIONS. H. EOR: ENGINEER OF RECORD DPR: ENGINEER OF RECORD/DESIGN PROFESSIONAL OF RECORD SPECIAL INSPECTION AND MATERIALS TESTING THIS SECTION APPLIES TO THE STRUCTURAL PORTIONS OF THE PROJECT REQUIRING SPECIAL INSPECTION. THE SPECIAL INSPECTORS DUTIES ARE DESCRIBED IN OBC 1701.3 AND CBC 1701.5 DOCUMENTED METHODS AND PROCEDURES SHALL BE USED FOR INSPECTION AND TESTING REQUIRED OF CONTRACTUAL DOCUMENTS, AND FOR ESTABLISHING ACCEPTANCE CRITERIA. ALL INSTRUCTIONS, STANDARDS, PROCEDURES, CHECKLISTS RELEVANT TO THE WORK WILL BE KEPT UP TO DATE AND READILY AVAILABLE FOR USE. NO INSPECTION OR TEST WILL BE PERFORMED IF THE SAFETY OF THE TESTING PROSONNEL IS IN QUESTION DUE TO JOB SITE CONDITIONS. PRIOR TO PROJECT COMMENCEMENT, THE TESTING AGENCY WILL CONFER WITH AND OBTAIN THE APPROVAL FROM THE APPROPRIATE DESIGN PROFESSIONAL OF RECORD REGARDING THE INSPECTION AND TESTING AGENCY WILL CONFER WITH AND OBTAIN THE APPROVAL FROM THE APPROPRIATE DESIGN PROFESSIONAL OF RECORD REGARDING THE INSPECTION AND TESTING AGENCY WILL CONFER WITH AND OBTAIN THE APPROVAL FROM THE APPROPRIATE DESIGN PROFESSIONAL OF RECORD REGARDING THE INSPECTION AND TESTING AGENCY WILL CONFER WITH AND OBTAIN THE APPROVAL FROM THE APPROPRIATE DESIGN PROJECT SPECIFICATIONS. PRIOR TO PROJECT COMMENCEMENT, AT HE STRUE OS OS PRECIFICATIONS. NOLUDING AND PROPORIATE ASTM METHODS, CODE REQUIREMENTS OR PROJECT SPECIFICATION REQUIRED. AND PROYED SPECIAL INSPECTION AGENCY EMPLOYED BY THE OWNER OR OWNER'S AGENT, NOT THE CONTRACTOR OR SUBCONTRACTOR, ACCREDITATION TO ASTM E-329-95C, STANDARD SPECIFICATION TO ASTM E-329-95C, STANDARD SPECIFICATION SFOR AGENCIES ENCAGED IN THE TESTING AND/OR INSPECTION OF MATERIALS USED IN CONSTRUCTION, IS PREFERRED. COPIES OF THE TEST RESULTS AND FINAL REPORTS SHALL BE FURNISHED TO THE ENGINEER OF RECORD (EOR) IN ADDITION TO OTHER NORMAL DISTRUTIONS, 9A. WITHIN TWO DAYS OF THE TEST. IN THE CASE OF DISCREPANCIES OR DEFICIENCIES, THE SPECIAL INSPECTION AGENCY SHALL BE PERFORMED TO THE INS	 INCLUDE CEMENT SAMPLING OR TEST RESULTS, GRAVEL GRADATION, CHECKING CALIBRATION OF EQUIPMENT AND ADMIXTURE APPROVALS. STRUCTURAL WELDING - GENERAL - INSPECTOR'S DUTIES 1. ALL FIELD WELDING NOT DONE IN AN APPROVED FABRICATORS SHOP EXCEPT THAT PERIODIC INSPECTION THE FREQUENCY OF WHICH IS DETERMINED PRIOR TO THE START OF THE PROJECT SHALL BE ALLOWED PER SECTION 1701.5, #5 EXCEPTIONS. 2. DURING ALL FIELD WELDING OF SPECIAL MOMENT-RESISTING FRAMES; IN ADDITION, NONDESTRUCTIVE TESTING AS REQUIRED BY SECTION 1703.
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 CODE REQUIREMENTS OR PROJECT SPECIFICATION REQUIREMENTS. AT THE START OF AND DURING EACH INSPECTION OF THE PROJECT TO ASCERTAIN PROPOSED CONFORMITY OF MATERIALS, PERSONNEL QUALIFICATIONS, AS REQUIRED, AND PROCEDURES WITH APPLICABLE CODES, PLANS, AND SPECIFICATIONS. ALL INSPECTION SHALL BE PERFORMED BY AN ACCREDITED, APPROVED SPECIAL INSPECTION AGENCY EMPLOYED BY THE OWNER OR OWNER'S AGENT, NOT THE CONTRACTOR OR SUBCONTRACTOR, ACCREDITATION TO ASTM E-329-95C, STANDARD SPECIFICATIONS FOR AGENCIES ENGAGED IN THE TESTING AND/OR INSPECTION OF MATERIALS USED IN CONSTRUCTION, IS PREFERRED. COPIES OF THE TEST RESULTS AND FINAL REPORTS SHALL BE FURNISHED TO THE ENGINEER OF RECORD (EOR) IN ADDITION TO OTHER NORMAL DISTRIBUTIONS, WITHIN TWO DAYS OF THE TEST. IN THE CASE OF DISCREPANCIES OR DEFICIENCIES, THE SPECIAL INSPECTION AGENCY SHALL IMMEDIATELY NOTIFY THE EOR. TESTING FREQUENCY SHALL BE PER APPLICABLE STRUCTURAL MASONRY, REINFORCED CONCRETE, AND STRUCTURAL STEEL WELDING CODES AND STANDARDS AND ARE PART OF THIS SPECIFICATION. A. CERTIFICATE OF SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION MUST BE COMPLETED AND SUBMITTED TO THE INSPECTION SERVICES DIVISION BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TEST AND/OR INSPECTION FIRM WITH A CONSTRUCTION SCHEDULE TO FACILITATE THE PROPER COORDINATION. THE SPECIAL INSPECTOR SHALL FURNISH DAILY INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE ENGINEER AT A MINIMUM PER WEEK FREQUENCY. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORTS TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE ENGINEER AT A MINIMUM PER WEEK FREQUENCY. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT, SIGNED BY BOTH HE AND HIS SUPERVISOR, STATING WHETHER THE WORK REQUIRING 	CODES, PARTICULARLY THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE (AWS D1.1) AND THE MANUAL, AND SPECIFICATIONS OF THE AMERICAN
 AND DURING EACH INSPECTION OF THE PROJECT TO ASCERTAIN PROPOSED CONFORMITY OF MATERIALS, PERSONNEL QUALIFICATIONS, AS REQUIRED, AND PROCEDURES WITH APPLICABLE CODES, PLANS, AND SPECIFICATIONS. 1. ALL INSPECTION SHALL BE PERFORMED BY AN ACCREDITED, APPROVED SPECIAL INSPECTION AGENCY EMPLOYED BY THE OWNER OR OWNER'S AGENT, NOT THE CONTRACTOR OR SUBCONTRACTOR, ACCREDITATION TO ASTM E-329-95C, STANDARD SPECIFICATIONS FOR AGENCIES ENGAGED IN THE TESTING AND/OR INSPECTION OF MATERIALS USED IN CONSTRUCTION, IS PREFERED. COPIES OF THE TEST RESULTS AND FINAL REPORTS SHALL BE FURNISHED TO THE ENGINEER OF RECORD (EOR) IN ADDITION TO OTHER NORMAL DISTRIBUTIONS, WITHIN TWO DAYS OF THE TEST. IN THE CASE OF DISCREPANCIES OR DEFICIENCIES, THE SPECIAL INSPECTION AGENCY SHALL IMMEDIATELY NOTIFY THE EOR. TESTING FREQUENCY SHALL BE PER APPLICABLE STRUCTURAL MASONRY, REINFORCED CONCRETE, AND STRUCTURAL STEEL WELDING CODES AND STANDARDS AND ARE PART OF THIS SPECIFICATION. A. CERTIFICATE OF SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION MUST BE COMPLETED AND SUBMITTED TO THE INSPECTION SERVICES DIVISION BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TEST AND/OR INSPECTION FIRM WITH A CONSTRUCTION SCHEDULE TO FACILITATE THE PROPER COORDINATION. THE SPECIAL INSPECTOR SHALL FURNISH DAILY INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE ENGINEER AT A MINIMUM PER WEEK FREQUENCY. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT, SIGNED BY BOTH HE AND HIS SUPERVISOR, STATING WHETHER THE WORK REQUIRING 	INSTITUTE OF STEEL CONSTRUCTION (AISC). 5. THE SPECIAL INSPECTOR SHALL REVIEW MILL TEST REPORTS AND CHECK
 APPLICABLE CODES, PLANS, AND SPECIFICATIONS. 1. ALL INSPECTIONS SHALL BE PERFORMED BY AN ACCREDITED, APPROVED SPECIAL INSPECTION AGENCY EMPLOYED BY THE OWNER OR OWNER'S AGENT, NOT THE CONTRACTOR OR SUBCONTRACTOR, ACCREDITATION TO ASTM E-329-95C, STANDARD SPECIFICATIONS FOR AGENCIES ENGAGED IN THE TESTING AND/OR INSPECTION OF MATERIALS USED IN CONSTRUCTION, IS PREFERRED. COPIES OF THE TEST RESULTS AND FINAL REPORTS SHALL BE FURNISHED TO THE ENGINEER OF RECORD (EOR) IN ADDITION TO OTHER NORMAL DISTRIBUTIONS, 9A. WITHIN TWO DAYS OF THE TEST. IN THE CASE OF DISCREPANCIES OR DEFICIENCIES, THE SPECIAL INSPECTION AGENCY SHALL IMMEDIATELY NOTIFY THE EOR. TESTING FREQUENCY SHALL BE PER APPLICABLE STRUCTURAL MASONRY, REINFORCED CONCRETE, AND STRUCTURAL STEEL WELDING CODES AND STANDARDS AND ARE PART OF THIS SPECIFICATION. A. CERTIFICATE OF SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION MUST BE COMPLETED AND SUBMITTED TO THE INSPECTION SERVICES DIVISION BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TEST AND/OR INSPECTION FIRM WITH A CONSTRUCTION SCHEDULE TO FACILITATE THE PROPER COORDINATION. THE SPECIAL INSPECTOR SHALL FURNISH DAILY INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE ENGINEER AT A MINIMUM PER WEEK FREQUENCY. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT, SIGNED BY BOTH HE AND HIS SUPERVISOR, STATING WHETHER THE WORK REQUIRING 	HEAT NUMBERS WITH MATERIAL AS RECEIVED. VERIFY THAT PROPER IDENTIFICATION
 INSPECTION AGENCY EMPLOYED BY THE OWNER OR OWNER'S AGENT, NOT THE CONTRACTOR OR SUBCONTRACTOR, ACCREDITATION TO ASTM E-329-95C, STANDARD SPECIFICATIONS FOR AGENCIES ENGAGED IN THE TESTING AND/OR INSPECTION OF MATERIALS USED IN CONSTRUCTION, IS PREFERED. COPIES OF THE TEST RESULTS AND FINAL REPORTS SHALL BE FURNISHED TO THE ENGINEER OF RECORD (EOR) IN ADDITION TO OTHER NORMAL DISTRIBUTIONS, 9A. WITHIN TWO DAYS OF THE TEST. IN THE CASE OF DISCREPANCIES OR DEFICIENCIES, THE SPECIAL INSPECTION AGENCY SHALL IMMEDIATELY NOTIFY THE EOR. TESTING FREQUENCY SHALL BE PER APPLICABLE STRUCTURAL MASONRY, REINFORCED CONCRETE, AND STRUCTURAL STEEL WELDING CODES AND STANDARDS AND ARE PART OF THIS SPECIFICATION. A. CERTIFICATE OF SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION MUST BE COMPLETED AND SUBMITTED TO THE INSPECTION SERVICES DIVISION BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TEST AND/OR INSPECTION FIRM WITH A CONSTRUCTION SCHEDULE TO FACILITATE THE PROPER COORDINATION. THE SPECIAL INSPECTOR SHALL FURNISH DAILY INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE ENGINEER AT A MINIMUM PER WEEK FREQUENCY. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT, SIGNED BY BOTH HE AND HIS SUPERVISOR, STATING WHETHER THE WORK REQUIRING 	OF STEEL IS MAINTAINED DURING FABRICATION. 6. THE SPECIAL INSPECTOR SHALL, WHEN REQUIRED BY PROJECT SPECIFICATIONS,
CONTRACTOR OR SUBCONTRACTOR, ACCREDITATION TO ASTM E-329-95C, STANDARD SPECIFICATIONS FOR AGENCIES ENGAGED IN THE TESTING AND/OR INSPECTION OF MATERIALS USED IN CONSTRUCTION, IS PREFERRED. COPIES OF THE TEST RESULTS AND FINAL REPORTS SHALL BE FURNISHED TO THE ENGINEER OF RECORD (EOR) IN ADDITION TO OTHER NORMAL DISTRIBUTIONS, WITHIN TWO DAYS OF THE TEST. IN THE CASE OF DISCREPANCIES OR DEFICIENCIES, THE SPECIAL INSPECTION AGENCY SHALL IMMEDIATELY NOTIFY THE EOR. TESTING FREQUENCY SHALL BE PER APPLICABLE STRUCTURAL MASONRY, REINFORCED CONCRETE, AND STRUCTURAL STEEL WELDING CODES AND STANDARDS AND ARE PART OF THIS SPECIFICATION. A. CERTIFICATE OF SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION MUST BE COMPLETED AND SUBMITTED TO THE INSPECTION SERVICES DIVISION BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TEST AND/OR INSPECTION FIRM WITH A CONSTRUCTION SCHEDULE TO FACILITATE THE PROPER COORDINATION. THE SPECIAL INSPECTOR SHALL FURNISH DAILY INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE ENGINEER AT A MINIMUM PER WEEK FREQUENCY. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT, SIGNED BY BOTH HE AND HIS SUPERVISOR, STATING WHETHER THE WORK REQUIRING	MARK SAMPLE LOCATION WITH STEEL STAMP ON EACH PIECE TESTED.
SPECIFICATIONS FOR AGENCIES ENGAGED IN THE TESTING AND/OR INSPECTION OF MATERIALS USED IN CONSTRUCTION, IS PREFERRED. COPIES OF THE TEST RESULTS AND FINAL REPORTS SHALL BE FURNISHED TO THE ENGINEER OF RECORD (EOR) IN ADDITION TO OTHER NORMAL DISTRIBUTIONS, WITHIN TWO DAYS OF THE TEST. IN THE CASE OF DISCREPANCIES OR DEFICIENCIES, THE SPECIAL INSPECTION AGENCY SHALL IMMEDIATELY NOTIFY THE EOR. TESTING FREQUENCY SHALL BE PER APPLICABLE STRUCTURAL MASONRY, REINFORCED CONCRETE, AND STRUCTURAL STEEL WELDING CODES AND STANDARDS AND ARE PART OF THIS SPECIFICATION. A. CERTIFICATE OF SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION MUST BE COMPLETED AND SUBMITTED TO THE INSPECTION SERVICES DIVISION BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TEST AND/OR INSPECTION FIRM WITH A CONSTRUCTION SCHEDULE TO FACILITATE THE PROPER COORDINATION. THE SPECIAL INSPECTOR SHALL FURNISH DAILY INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE ENGINEER AT A MINIMUM PER WEEK FREQUENCY. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT, SIGNED BY BOTH HE AND HIS SUPERVISOR, STATING WHETHER THE WORK REQUIRING	7. THE SPECIAL INSPECTOR SHALL RECORD SAMPLE NUMBER AND LOCATION AND CHECK THAT SAMPLE IDENTIFICATION IS MAINTAINED AS SAMPLES ARE
MATERIALS USED IN CONSTRUCTION, IS PREFERRED. COPIES OF THE TEST RESULTS AND FINAL REPORTS SHALL BE FURNISHED TO THE ENGINEER OF RECORD (EOR) IN ADDITION TO OTHER NORMAL DISTRIBUTIONS, WITHIN TWO DAYS OF THE TEST. IN THE CASE OF DISCREPANCIES OR DEFICIENCIES, THE SPECIAL INSPECTION AGENCY SHALL IMMEDIATELY NOTIFY THE EOR. TESTING FREQUENCY SHALL BE PER APPLICABLE STRUCTURAL MASONRY, REINFORCED CONCRETE, AND STRUCTURAL STEEL WELDING CODES AND STANDARDS AND ARE PART OF THIS SPECIFICATION. A. CERTIFICATE OF SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION MUST BE COMPLETED AND SUBMITTED TO THE INSPECTION SERVICES DIVISION BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TEST AND/OR INSPECTION FIRM WITH A CONSTRUCTION SCHEDULE TO FACILITATE THE PROPER COORDINATION. THE SPECIAL INSPECTOR SHALL FURNISH DAILY INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE ENGINEER AT A MINIMUM PER WEEK FREQUENCY. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT, SIGNED BY BOTH HE AND HIS SUPERVISOR, STATING WHETHER THE WORK REQUIRING	DELIVERED TO LABORATORY AND TESTED. 8. THE SPECIAL INSPECTOR SHALL WHEN STEEL MEMBERS ARE DELIVERED TO
 THE ENGINEER OF RECORD (EOR) IN ADDITION TO OTHER NORMAL DISTRIBUTIONS, 9A. WITHIN TWO DAYS OF THE TEST. IN THE CASE OF DISCREPANCIES OR DEFICIENCIES, THE SPECIAL INSPECTION AGENCY SHALL IMMEDIATELY NOTIFY THE EOR. TESTING FREQUENCY SHALL BE PER APPLICABLE STRUCTURAL MASONRY, REINFORCED CONCRETE, AND STRUCTURAL STEEL WELDING CODES AND STANDARDS AND ARE PART OF THIS SPECIFICATION. A. CERTIFICATE OF SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION MUST BE COMPLETED AND SUBMITTED TO THE INSPECTION SERVICES DIVISION BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TEST AND/OR INSPECTION FIRM WITH A CONSTRUCTION SCHEDULE TO FACILITATE THE PROPER COORDINATION. THE SPECIAL INSPECTOR SHALL FURNISH DAILY INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE ENGINEER AT A MINIMUM PER WEEK FREQUENCY. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT, SIGNED BY BOTH HE AND HIS SUPERVISOR, STATING WHETHER THE WORK REQUIRING 	FINISH AND NO "CROP ENDS" ARE AVAILABLE FOR SAMPLE CUTTING, COORDINATE
 WITHIN TWO DAYS OF THE TEST. IN THE CASE OF DISCREPANCIES OR DEFICIENCIES, THE SPECIAL INSPECTION AGENCY SHALL IMMEDIATELY NOTIFY THE EOR. TESTING FREQUENCY SHALL BE PER APPLICABLE STRUCTURAL MASONRY, REINFORCED CONCRETE, AND STRUCTURAL STEEL WELDING CODES AND STANDARDS AND ARE PART OF THIS SPECIFICATION. A. CERTIFICATE OF SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION MUST BE COMPLETED AND SUBMITTED TO THE INSPECTION SERVICES DIVISION BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TEST AND/OR INSPECTION FIRM WITH A CONSTRUCTION SCHEDULE TO FACILITATE THE PROPER COORDINATION. THE SPECIAL INSPECTOR SHALL FURNISH DAILY INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE ENGINEER AT A MINIMUM PER WEEK FREQUENCY. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT, SIGNED BY BOTH HE AND HIS SUPERVISOR, STATING WHETHER THE WORK REQUIRING 	CUTTING AND PATCHING REQUIREMENTS WITH THE ARCHITECT/ENGINEER WELDING OBSERVATION - (APPLICABLE TO SHOP AND FIELD)
 FREQUENCY SHALL BE PER APPLICABLE STRUCTURAL MASONRY, REINFORCED CONCRETE, AND STRUCTURAL STEEL WELDING CODES AND STANDARDS AND ARE PART OF THIS SPECIFICATION. A. CERTIFICATE OF SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION MUST BE COMPLETED AND SUBMITTED TO THE INSPECTION SERVICES DIVISION BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TEST AND/OR INSPECTION FIRM WITH A CONSTRUCTION SCHEDULE TO FACILITATE THE PROPER COORDINATION. THE SPECIAL INSPECTOR SHALL FURNISH DAILY INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE ENGINEER AT A MINIMUM PER WEEK FREQUENCY. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT, SIGNED BY BOTH HE AND HIS SUPERVISOR, STATING WHETHER THE WORK REQUIRING 	1. THE SPECIAL INSPECTOR SHALL CHECK EACH WELDER'S CERTIFICATION
CONCRETE, AND STRUCTURAL STEEL WELDING CODES AND STANDARDS AND ARE PART OF THIS SPECIFICATION. A. CERTIFICATE OF SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION MUST BE COMPLETED AND SUBMITTED TO THE INSPECTION SERVICES DIVISION BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TEST AND/OR INSPECTION FIRM WITH A CONSTRUCTION SCHEDULE TO FACILITATE THE PROPER COORDINATION. THE SPECIAL INSPECTOR SHALL FURNISH DAILY INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE ENGINEER AT A MINIMUM PER WEEK FREQUENCY. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT, SIGNED BY BOTH HE AND HIS SUPERVISOR, STATING WHETHER THE WORK REQUIRING	AND VERIFY THAT THE WELDER DOES WORK ONLY AS QUALIFIED BY HIS CERTIFICATION
 A. CERTIFICATE OF SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION MUST BE COMPLETED AND SUBMITTED TO THE INSPECTION SERVICES DIVISION BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TEST AND/OR INSPECTION FIRM WITH A CONSTRUCTION SCHEDULE TO FACILITATE THE PROPER COORDINATION. THE SPECIAL INSPECTOR SHALL FURNISH DAILY INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE ENGINEER AT A MINIMUM PER WEEK FREQUENCY. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT, SIGNED BY BOTH HE AND HIS SUPERVISOR, STATING WHETHER THE WORK REQUIRING 	2. THE SPECIAL INSPECTOR SHALL KEEP A WRITTEN RECORD OF EACH WELDER
DIVISION BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TEST AND/OR INSPECTION FIRM WITH A CONSTRUCTION SCHEDULE TO FACILITATE THE PROPER COORDINATION. THE SPECIAL INSPECTOR SHALL FURNISH DAILY INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE ENGINEER AT A MINIMUM PER WEEK FREQUENCY. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT, SIGNED BY BOTH HE AND HIS SUPERVISOR, STATING WHETHER THE WORK REQUIRING	BY NAME, IDENTIFICATION NUMBER AND HIS IDENTIFYING STEEL MARK, IF APPLICABLE, AND THE PERCENTAGE OF REJECTABLE WELDS.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TEST AND/OR INSPECTION FIRM WITH A CONSTRUCTION SCHEDULE TO FACILITATE THE PROPER COORDINATION. THE SPECIAL INSPECTOR SHALL FURNISH DAILY INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE ENGINEER AT A MINIMUM PER WEEK FREQUENCY. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT, SIGNED BY BOTH HE AND HIS SUPERVISOR, STATING WHETHER THE WORK REQUIRING	3. THE SPECIAL INSPECTOR SHALL UPON DETECTION OF REJECTABLE WELD
COORDINATION. THE SPECIAL INSPECTOR SHALL FURNISH DAILY INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE ENGINEER AT A MINIMUM PER WEEK FREQUENCY. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT, SIGNED BY BOTH HE AND HIS SUPERVISOR, STATING WHETHER THE WORK REQUIRING	(EITHER VISUALLY OR BY NONDESTRUCTIVE TEST), THE INSPECTOR OF RECORD WILL NOTIFY THE WELDER AND HIS FOREMAN FOR VERIFICATION
THE SPECIAL INSPECTOR SHALL FURNISH DAILY INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE ENGINEER AT A MINIMUM PER WEEK FREQUENCY. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT, SIGNED BY BOTH HE AND HIS SUPERVISOR, STATING WHETHER THE WORK REQUIRING	OF DEFECT. THE INSPECTOR OF RECORD WILL OBSERVE REMOVAL, REWORK, OR REPAIRS.
FREQUENCY. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT, SIGNED BY BOTH HE AND HIS SUPERVISOR, STATING WHETHER THE WORK REQUIRING	4. THE SPECIAL INSPECTOR SHALL CHECK STRUCTURAL MEMBERS FOR
BY BOTH HE AND HIS SUPERVISOR, STATING WHETHER THE WORK REQUIRING	THICKNESS ADJACENT TO WELDS, OPENING, ETC. REWORK, OR REPAIRS. 5. THE SPECIAL INSPECTOR SHALL INSPECT JOINTS FOR PROPER PREPARATION,
	INCLUDING BEVEL, ROOT FACES, ROOT OPENING, ETC. REWORK, OR REPAIRS.
SPECIAL INSPECTION WAS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE WORKMANSHIP PROVISIONS OF THE CBC.	 THE SPECIAL INSPECTOR SHALL CHECK THE TYPE AND SIZE OF ELECTRODES TO BE USED FOR THE VARIOUS JOINTS, AND POSITIONS. CHECK THE STORAGE
ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE	FACILITIES TO SEE IF THEY ARE ADEQUATE TO KEEP THE ELECTRODES DRY.
CONTRACTOR FOR CORRECTION; THEN IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY AND THE BUILDING OFFICIAL.	 THE SPECIAL INSPECTOR SHALL OBSERVE THE TECHNIQUE OF EACH THE SPECIAL INSPECTOR SHALL WELDER WITH USE OF A WELDING INSPECTION SHIELD.
SPECIAL INSPECTION REPORTS	8. THE SPECIAL INSPECTOR SHALL VERIFY THE USE OF PROPER PREHEAT AND INTER PASS
THESE REPORTS SHALL INCLUDE, AS A MINIMUM, THE FOLLOWING INFORMATION: A. PERMIT NUMBER	TEMPERATURES. INSPECTOR SHALL WELDER WITH USE OF A WELDING INSPECTION SHIE
B. NAME OF THE MUNICIPAL INSPECTOR, IF AVAILABLE, AND OF THE GOVERNING	9. THE SPECIAL INSPECTOR SHALL CONTINUOUSLY OBSERVE MULTI-PASS WELDS. CONTINU
MUNICIPALITY C. SPECIAL INSPECTION AGENCY NAME, ADDRESS, AND PHONE NUMBER	9. THE SPECIAL INSPECTOR SHALL CONTINUOUSLY OBSERVE MULTI-PASS WELDS. CONTINUINSPECTION IS DEFINED AS FOLLOWS: THE INSPECTOR IS PRESENT IN THE WELDING ARE
D. UNIQUE IDENTIFICATION OF THE REPORT AND OF EACH PAGE.	9. THE SPECIAL INSPECTOR SHALL CONTINUOUSLY OBSERVE MULTI-PASS WELDS. CONTINU
 E. CLIENT NAME AND ADDRESS F. NAME AND ADDRESS OF THE DESIGN PROFESSIONAL OF RECORD, AND OTHER 	9. THE SPECIAL INSPECTOR SHALL CONTINUOUSLY OBSERVE MULTI-PASS WELDS. CONTINU INSPECTION IS DEFINED AS FOLLOWS: THE INSPECTOR IS PRESENT IN THE WELDING ARE AT ALL TIMES AND IS FULLY AWARE OF THE PROGRESS OF THE WELDING AT ANY GIVEN TIME. THE INSPECTOR MAY WATCH MULTIPLE WELDERS PROVIDED THEY ALL BE IN THE AREA, CLOSE ENOUGH FOR EFFECTIVE VISUAL INSPECTION OF THE WORK PERFORMED.
DESIGNERS OR ENGINEERS APPLICABLE TO THE PROJECT G. DESCRIPTION OF THE TYPE OF INSPECTION PERFORMED	9. THE SPECIAL INSPECTOR SHALL CONTINUOUSLY OBSERVE MULTI-PASS WELDS. CONTINU INSPECTION IS DEFINED AS FOLLOWS: THE INSPECTOR IS PRESENT IN THE WELDING ARE AT ALL TIMES AND IS FULLY AWARE OF THE PROGRESS OF THE WELDING AT ANY GIVEN TIME. THE INSPECTOR MAY WATCH MULTIPLE WELDERS PROVIDED THEY ALL BE IN THE
H. ANY UNRESOLVED DEVIATIONS, EXCLUSIONS, AND ADDITIONS TO OR FROM THE	 THE SPECIAL INSPECTOR SHALL CONTINUOUSLY OBSERVE MULTI-PASS WELDS. CONTINUINSPECTION IS DEFINED AS FOLLOWS: THE INSPECTOR IS PRESENT IN THE WELDING ARE AT ALL TIMES AND IS FULLY AWARE OF THE PROGRESS OF THE WELDING AT ANY GIVEN TIME. THE INSPECTOR MAY WATCH MULTIPLE WELDERS PROVIDED THEY ALL BE IN THE AREA, CLOSE ENOUGH FOR EFFECTIVE VISUAL INSPECTION OF THE WORK PERFORMED. THE SPECIAL INSPECTOR SHALL DETERMINE THAT THE OPERATOR IS CAPABLE OF PRODUCING THE REQUIRED WELDS. THE SPECIAL INSPECTOR SHALL OBSERVE SINGLE PASS FILLET WELDS PERIODICALLY,
APPROVED DRAWINGS AND SPECIFICATIONS RELEVANT TO THE SPECIFIC INSPECTION OR TEST.	 THE SPECIAL INSPECTOR SHALL CONTINUOUSLY OBSERVE MULTI-PASS WELDS. CONTINUINSPECTION IS DEFINED AS FOLLOWS: THE INSPECTOR IS PRESENT IN THE WELDING ARE AT ALL TIMES AND IS FULLY AWARE OF THE PROGRESS OF THE WELDING AT ANY GIVEN TIME. THE INSPECTOR MAY WATCH MULTIPLE WELDERS PROVIDED THEY ALL BE IN THE AREA, CLOSE ENOUGH FOR EFFECTIVE VISUAL INSPECTION OF THE WORK PERFORMED. THE SPECIAL INSPECTOR SHALL DETERMINE THAT THE OPERATOR IS CAPABLE OF PRODUCING THE REQUIRED WELDS. THE SPECIAL INSPECTOR SHALL OBSERVE SINGLE PASS FILLET WELDS PERIODICALLY, OR MORE OFTEN IF CODES AND SPECIFICATIONS REQUIRE. THE SPECIAL INSPECTOR SHALL, IF STRAIGHTENING OR RESTRAINING OF
I. COMPLIANCE FINDINGS AND REFERENCE	 THE SPECIAL INSPECTOR SHALL CONTINUOUSLY OBSERVE MULTI-PASS WELDS. CONTINUINSPECTION IS DEFINED AS FOLLOWS: THE INSPECTOR IS PRESENT IN THE WELDING ARE AT ALL TIMES AND IS FULLY AWARE OF THE PROGRESS OF THE WELDING AT ANY GIVEN TIME. THE INSPECTOR MAY WATCH MULTIPLE WELDERS PROVIDED THEY ALL BE IN THE AREA, CLOSE ENOUGH FOR EFFECTIVE VISUAL INSPECTION OF THE WORK PERFORMED. THE SPECIAL INSPECTOR SHALL DETERMINE THAT THE OPERATOR IS CAPABLE OF PRODUCING THE REQUIRED WELDS. THE SPECIAL INSPECTOR SHALL OBSERVE SINGLE PASS FILLET WELDS PERIODICALLY, OR MORE OFTEN IF CODES AND SPECIFICATIONS REQUIRE. THE SPECIAL INSPECTOR SHALL, IF STRAIGHTENING OR RESTRAINING OF WELDMENTS IS NECESSARY, VERIFY THAT APPROVED METHODS WILL BE USED.
J. DESCRIPTION OF LOCATION WHERE THE INSPECTION WAS PERFORMED WITHIN THE PROJECT	 THE SPECIAL INSPECTOR SHALL CONTINUOUSLY OBSERVE MULTI-PASS WELDS. CONTIN INSPECTION IS DEFINED AS FOLLOWS: THE INSPECTOR IS PRESENT IN THE WELDING ARE AT ALL TIMES AND IS FULLY AWARE OF THE PROGRESS OF THE WELDING AT ANY GIVEN TIME. THE INSPECTOR MAY WATCH MULTIPLE WELDERS PROVIDED THEY ALL BE IN THE AREA, CLOSE ENOUGH FOR EFFECTIVE VISUAL INSPECTION OF THE WORK PERFORMED. THE SPECIAL INSPECTOR SHALL DETERMINE THAT THE OPERATOR IS CAPABLE OF PRODUCING THE REQUIRED WELDS. THE SPECIAL INSPECTOR SHALL OBSERVE SINGLE PASS FILLET WELDS PERIODICALLY, OR MORE OFTEN IF CODES AND SPECIFICATIONS REQUIRE. THE SPECIAL INSPECTOR SHALL, IF STRAIGHTENING OR RESTRAINING OF

M. THE NAME, SIGNATURE, TITLE, AND IDENTIFICATION NUMBER, AS APPROPRIATE,

N. IDENTIFICATION OF SUBCONTRACTORS EMPLOYED TO CARRY OUT TESTS OR

LABORATORY TESTS AND MILL CERTIFICATIONS ARE REQUIRED TO BE SUBMITTED

SPECIAL INSPECTION BY A SPECIAL OR DEPUTY INSPECTOR FROM AN ACCREDITED,

LICENSES AND CERTIFICATIONS SHALL BE REQUIRED FOR THE TYPE OF WORK

EOR APPROVED INSPECTION AGENCY AND WITH THE APPROPRIATE CURRENT MUNICIPAL

TO THE ENGINEER OF RECORD. THESE REPORTS SHALL INCLUDE, BUT NOT BE

GRAPHS, SKETCHES, OR PHOTOGRAPHS AS APPROPRIATE

OF THE FIELD INSPECTOR PERFORMING THE INSPECTION

PARTS OF TESTS

LIMITED TO THE FOLLOWING:

1. CONCRETE CYLINDERS

2. REINFORCING STEEL

3. STRUCTURAL STEEL

5. CONCRETE ANCHORS

4. CONCRETE MIXES

LISTED BELOW.

7. TESTS REPORTS

			STRUCTURAL MAS	ONRY (SPE	ECIAL			
						INSPECT		
8A. PORTION	IS OF WORK REQUIRING SPECIAL INSPECTION:	ES NO N/A				IDUS DOUS DOUS		
FOUNDATION	A. COMPACTED FILL, GRADING, AND EXCAVATIONS	x	(MONITOR MATERIAL AND WOF DOCUMENTS ARE BEING FOLL		SSURE CONTRACT	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	
TOUNDATION		X						
		X	1. AS MASONRY CONSTRUCTION	BEGINS, THE FOL	LOWING SHALL			
CONCRETE	B. CONTINUOUS INSPECTION FOR SLAB CONCRETE	X	BE VERIFIED TO ENSURE COMI A. PROPORTIONS OF SITE F	-	AR.		x	
00.101.212		×	B. CONSTRUCTION OF MOR C. LOCATION OF REINFORC	RTAR JOINTS.			X X	
	D. ANCHOR BOLTS OR EMBEDS IN CONCRETE (INSTALLATION AND CONCRETE PLACEMENT)	x	2. THE INSPECTION PROGRAM SH		NECTORS.		_X	
	A. ALL ADHESIVE ANCHORS, RODS, DOWELS, SHALL BE	x	A. SIZE AND LOCATION OF S B. TYPE, SIZE AND LOCATIO				X	
	CONTINUOUSLY INSPECTED DURING INSTALLATION.		INCLUDING OTHER DETA	ILS OF ANCHORA	GE OF MASONRY		X	
DRILLED IN	B. ADDITIONAL TESTING MAY BE REQUIRED AS SPECIFIED ON THE PLANS.	x	TO OTHER DETAILS OF A STRUCTURAL MEMBERS,					
ANCHORS	C. ADHESIVE ANCHORS IN CONCRETE OR MASONRY	x	CONSTRUCTION C. CHECK GROUT MIX FOR	COMPLIANCE WIT	H CODE AND		x	
REINFORCING	A. PLACING OF REINFORCING	X	SPECIFICATIONS. D. WELDING OF REINFORCI					
STEE	B. SAMPLING AND TESTING STEEL	X	E. PROTECTION OF MASON	IRY DURING COLD)		X X	
	(MILL REPORTS AND IDENTIFICATION OF STEEL)		WEATHER (TEMP. BELOV WEATHER (TEMP. ABOVE				x	
	A. ALL STRUCTURAL WELDING EXCEPT WELDING IN APPROVED SHOPS.	X	F. CUTTING OF CLEAN OU AND REMOVAL OF DEBRIS.		ING DOWN OF FINS			
WELDING	B. ULTRASONIC TESTING OF FULL PENETRATION WELD CONNECTIONS , AND FIELD WELDS.	x	G. VERIFY THAT MATERIA H. VERIFY THE LOCATION					
	C. STRUCTURAL LIGHT GAGE METAL FRAME WELDING.	x	3. PRIOR TO GROUTING, THE FOL	LLOWING SHALL E	BE VERIFIED TO			
	D. REINFORCING STEEL WELDING	X	ENSURE COMPLIANCE: A. GROUT SPACE IS CLEAN				x	
	A. HIGH STRENGTH BOLT A325 & A490		B. PLACEMENT OF REINFOF CLEARANCE, LAP SPLICE				X	
BOLTING		X	C. CHECK GROUT MIX FOR (SPECIFICATIONS.	COMPLIANCE WIT	H CODE AND		x	
	B. HIGH STRENGTH BOLT A325N,X & A480N,X (SNUG CONTACT OF PLYS)	x	D. CONSTRUCTION OF MOR E. CHECK INSTALLATION OF		OSURE.		x x	
	A. SAMPLING OF MASONRY UNITS	X	4. GROUT PLACEMENT SHALL BE COMPLIANCE WITH CODE AND				X	
	B. MASONRY PRISM CONSTRUCTION	x	PROVISIONS. (SUCH AS MECHA	ANICAL VIBRATION	N DURING			
MASONRY	C. MORTAR SAMPLING	X	5. PREPARATION OF ANY REQUIR		- /			
	D. CONTINUOUS INSPECTION DURING PLACEMENT AND GROUTING OF MASONRY UNITS AND REINFORCEMENT PLACEMENT.	x	SPECIMENS AND/OR PRISMS S	HALL BE OBSERV	′ED.		X	
	E. ANCHOR BOLTS OR EMBEDS IN MASONRY		 COMPLIANCE WITH REQUIRED PROVISIONS OF THE CONSTRU 				X	
	(INSTALLATION AND GROUT PLACEMENT)	X	APPROVED SUBMITTALS SHAL					
INSULATING CONCRETE	A. TEST CYLINDERS AND INSPECTIONS	x	 CHECK THAT CURING REQUIRE VERIFY PLACEMENT OF ANCHORY 	-			x	
FILL			UNITS.				×	
	A. MILL REPORTS AND IDENTIFICATION OF STEEL (AFFIDAVIT OF COMPLIANCE)	X	9. FREQUENCY OF TESTS: A. CONCRETE MASONRY UNI		, ,		X	
STRUCTURAL STEE	B. SAMPLING AND TESTING	X	AND GRADE OF CONCRET UNITS BY METHOD OF SAM		- , -			
	C. DURING PLACEMENT OF PAINT AS SPECIFIED BY THE ARCHITECT.	X	C140. ONE SET OF CMU S CONDUCTED FOR EVERY	-				
SHEAR DIAPHRAGMS	A. INSPECTION OF SHEATHING PLACEMENT AND NAIL SPACING	x	CONSTRUCTION IN ACCOP LESS THAN ONE SET OF 3	RDANCE TO ASTM	1 C1314, BUT NOT			
	APPROVED FABRICATORS: MUST SUBMIT CERTIFICATE OF COMPLIANCE	x	PROJECT. B. MORTAR TEST: FOR EACH	H TYPE INDICATEI	D, TEST MORTAR			
FABRICATORS	FOR ALL OFF SITE FABRICATION SUCH AS STRUCTURAL STEEL GLU-LAMS PRECAST CONCRETE, ETC.		BY METHODS OF SAMPLIN CONDUCT TESTS NO LESS					
STRUCTURAL	STRUCTURAL OBSERVATIONS REQUIRED. WHEN REQUIRED BY THIS ENGINEER OR THE BUILDING DEPARTMENT, THE CONTRACTOR SHALL		REQUIRED TO EVALUATE	MORTAR USED TO	O INSTALL EACH			
OBSERVATION	EMPLOY AN ENGINEER APPROVED BY THE EOR TO PERFORM STRUCTURAL OBSERVATION.	X	INCREMENT OF MASONRY WHICH SAMPLES ARE TAK	KEN FOR TESTING	6. TEST MORTAR			
	STRUCTURAL OBSERVATION.		FOR EVERY 1,500 SQ. FT. C. GROUT TEST: AT START (
REINF	ORCED CONCRETE MASONRY		ONE TEST PER DAY FOR F CONSISTS OF THREE SPE WITH ASTM C1019. AFTEF	CIMENS MADE IN	ACCORDANCE			
		/c·	FOR CONTINUING QUALITY	Y CONTROL SHOU	JLD BE TAKEN			
	RETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C90, AND AS FOLLOW COMPRESSIVE STRENGTH: 1900 PSI MINIMUM AVERAGE NET AREA		ONCE A WEEK FOR EVER FOR EVERY 2,500 SQ. FT.					
* WEIG	COMPRESSIVE STRENGTH. MEDIUM WEIGHT BLOCK		10. MASONRY TESTING REQUIREM	IENTS			x	
* GRO * MOR			TESTING METHOD PRI OPTIONS CONS	IOR TO STRUCTION	DURING CONSTRUCTION			
* CON	CRETE MASONRY ASSEMBLAGE (fm) SHALL BE 1500 PSI		METHOD 1:	RISMS	3 PRISMS FOR EVERY			
GRADE	INFORCING BARS SHALL BE NEW BILLET STEEL AND SHALL CONFORM TO AST 60, REINFORCING BARS #3 AND SMALLER MAY BE GRADE 40.		MASONRY PRISM 5 P TESTING	NIOINIO	5,000 S.F. OF WALL			
	RETE SHALL CONFORM TO ASTM C150 TYPE I, LOW ALKALI, MASONRY CEMENT OT ALLOWED.	rs -	METHOD 2: MASONRY PRISM APPROVE	ED 30 PRISM	3 PRISMS FOR EVERY			

GRADE 60, REINFORCING BARS #3 AND SMALLER MAY BE GRADE 40.							
CONCRETE SHALL CONFORM TO ASTM C150 TYPE I, LOW ALKALI, MASONRY CEMENTS							
ARE NOT	ARE NOT ALLOWED.						
TYPICAL	TYPICAL REINFORCEMENT, U.N.O. (DRAWING NOTES GOVERN OVER THESE NOTES)						
				OPENINGS			
C	MU	VERTICAL	HORIZONTAL	AND DOWELS	CORNERS		
****	8"	#6 AT 32" O.C.	#5 AT 96" O.C.	(2) #5	(3) #5		
	6"	#4 AT 48" O.C.	#4 AT 96" O.C.	(1) #4	(3) #4		
\times	12"	(2) #6 AT 16" O.C.	(2) #5 AT 96" O.C.	(2) #6	(3) #6		
	12"	(2) #6 AT 16" O.C.	(2) #6 AT 24" O.C.	(2) #6	(3) #6		

ALL VERTIC INDICATES CMU WALL/COLUMN/PILASTER REINFORCED PER DETAIL 1/S402DE SENT IN THE WELDING AREA DOWELS FROM FOUNDATION, SAME SIZE AND SPACING. E WELDING AT ANY GIVEN 5. TYPICAL HORIZONTAL REINFORCEMENT SHALL BE TWO (2) #5 CONTINUOUS IN 8"x16" DEEP CONTINUOUS CONCRETE FILLED BOND BEAM BELOW EACH FLOOR AND ROOF LEVEL, UNLESS NOTED OTHERWISE. PROVIDE STANDARD DUR-O-WALL TRUSS-TYPE REINFORCING OR REVIEWED EQUIVALENT EVERY OTHER COURSE (16" ON CENTER) AND AS PER MANUFACTURER'S RECOMMENDATIONS. (9 GAGE MINIMUM GALVANIZED) ET WELDS PERIODICALLY, 6. VERTICAL CELLS TO BE FILLED SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN

A CLEAR, UNOBSTRUCTED CONTINUOUS VERTICAL. 7. WALL LENGTHS LESS THAN OR EQUAL TO FOUR (4) TIMES ITS THICKNESS SHALL BE CONSIDERED COLUMN SECTIONS AND SHALL BE REINFORCED WITH #5 VERTICAL REINFORCING IN FILLED CELLS, PROVIDE 1/4 INCH DIAMETER TIES EVERY COURSE (8" ON CENTER) IN LIEU OF DUR-O-WALL REINFORCING, PLACE TIES NOT LESS THAN 1 1/2" NOR MORE THAN 5" FROM THE SURFACE OF THE COLUMN.

- 8. ALL CELLS CONTAINING VERTICAL REINFORCEMENT SHALL BE FILLED SOLIDLY WITH PEA GRAVEL CONCRETE (3/8" MAX. AGGREGATE SIZE) OR GROUT, EACH WITH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, GROUT OR CONCRETE SHALL BE A WORKABLE MIX SUITABLE FOR PUMPING WITHOUT SEGREGATION AND SHALL BE THOROUGHLY MIXED, GROUT OR CONCRETE SHALL BE PLACE BY PUMPING OR AN APPROVED ALTERNATE METHOD AND SHALL BE PLACED BEFORE INITIAL SET OR HARDENING OCCURS. GROUTING SHALL BE PER NCHA TEK 3-2
- 9. ALLOW C.M.U. WALLS TO SET AT LEAST 24 HOURS AFTER COMPLETION BEFORE GROUTING, GROUT OR CONCRETE SHALL BE CONSOLIDATED BY RESOLIDATION AFTER EXCESS MOISTURE HAS BEEN ABSORBED BUT BEFORE WORKABILITY IS LOST, THE FILLING OF ANY SECTION OF A WALL SHALL BE COMPLETED IN ONE DAY WITHOUT INTERRUPTIONS GREATER THAN ONE HOUR, AND PLACED IN LAYERS OF 4 FEET MAXIMUM.
- 10. WHERE THE CONCRETE OR GROUT POUR EXCEEDS 4 FEET IN HEIGHT, CLEANOUTS SHALL BE PROVIDED BY SUITABLE OPENINGS IN THE FACE SHELLS IN THE BOTTOM COURSE OF EACH CELL TO BE FILLED, OR OTHER APPROVED LOCATIONS, THE CLEANOUTS SHALL BE SEALED AFTER INSPECTION AND BEFORE BEING FILLED.
- 11. WHEN CELL FILLING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINT SHALL BE FORMED BY STOPPING THE POUR OF CONCRETE OR GROUT APPROXIMATELY 1/2 INCH ABOVE OR BELOW BED JOINT. 12. END WALLS AND CROSS WEBS FORMING CELLS TO BE FILLED SHALL BE FULL BEDDED
- IN MORTAR TO PREVENT LEAKAGE OF CONCRETE OR GROUT UNLESS WALL IS TO BE POURED SOLID.
- 13. PROVIDE VERTICAL CONTROL JOINTS AT A MAXIMUM SPACING OF 24' (10' FROM CORNERS. DO NOT CONTINUE THE TYPICAL TRUSS TYPE JOINT REINFORCEMENT THROUGH THE JOINT. BOND BEAM REINFORCEMENT SHALL BE CONTINUOUS THROUGH THE JOINT. 14. DURING ERECTION, COVER TOP OF WALLS, PROJECTIONS AND SILLS WITH WATERPROOF SHEATHING AT THE END OF EACH DAY'S WORK.
- A. PREINSTALLATION CONFERENCE: 1. AT LEAST 15 DAYS PRIOR TO THE START OF THE MASONRY CONSTRUCTION SCHEDULE, THE CONTRACTOR SHALL CONDUCT A MEETING TO REVIEW THE PROPOSED MIX DESIGNS, MATERIALS AND TO DISCUSS THE REQUIRED METHODS AND PROCEDURES TO ACHIEVE THE REQUIRED MASONRY CONSTRUCTION. THE CONTRACTOR SHALL SEND A PRE-CONCRETE CONFERENCE AGENDA TO ALL ATTENDEES 20 DAYS PRIOR TO THE SCHEDULED DATE OF THE CONFERENCE.
- 2. THE CONTRACTOR SHALL REQUIRE RESPONSIBLE REPRESENTATIVES OF EVERY PARTY CONCERNED WITH THE MASONRY WORK TO ATTEND THE CONFERENCE, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: A) CONTRACTOR'S SUPERINTENDENT
- B) LABORATORY RESPONSIBLE FOR CONCRETE MIXES AND/ OR FIELD QUALITY CONTROL AND SPECIAL INSPECTOR C) READY-MIX CONCRETE PRODUCER D) MASONRY SUBCONTRACTOR

PERIODIC INDICATES AT A MINIMUM ONCE A DAY FOR A MINIMUM OF ONE HOUR

RECORD

UNITS AND GROUT

OR 5 PRISM

5,000 S.F. OF WALL

UNITS AND GROUT OR

3 PRISMS FOR EVERY

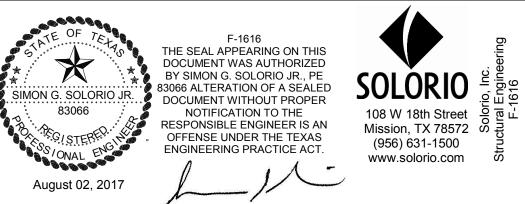
5,000 S.F. OF WALL

UNIT STRENGTH

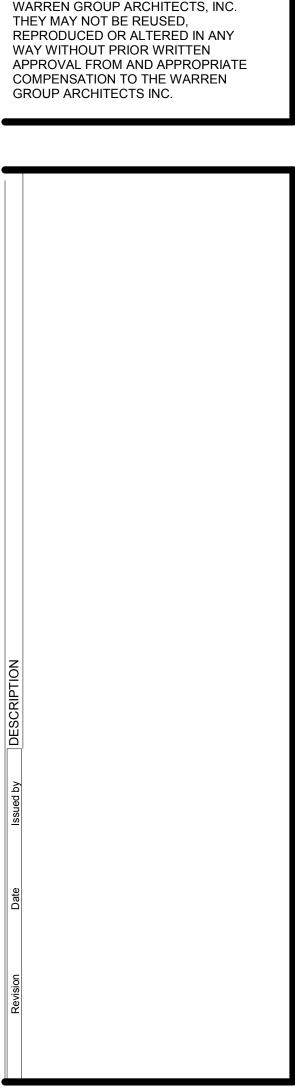
TEST RECORD

METHOD 3:

METHOD



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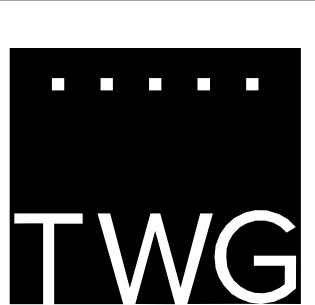


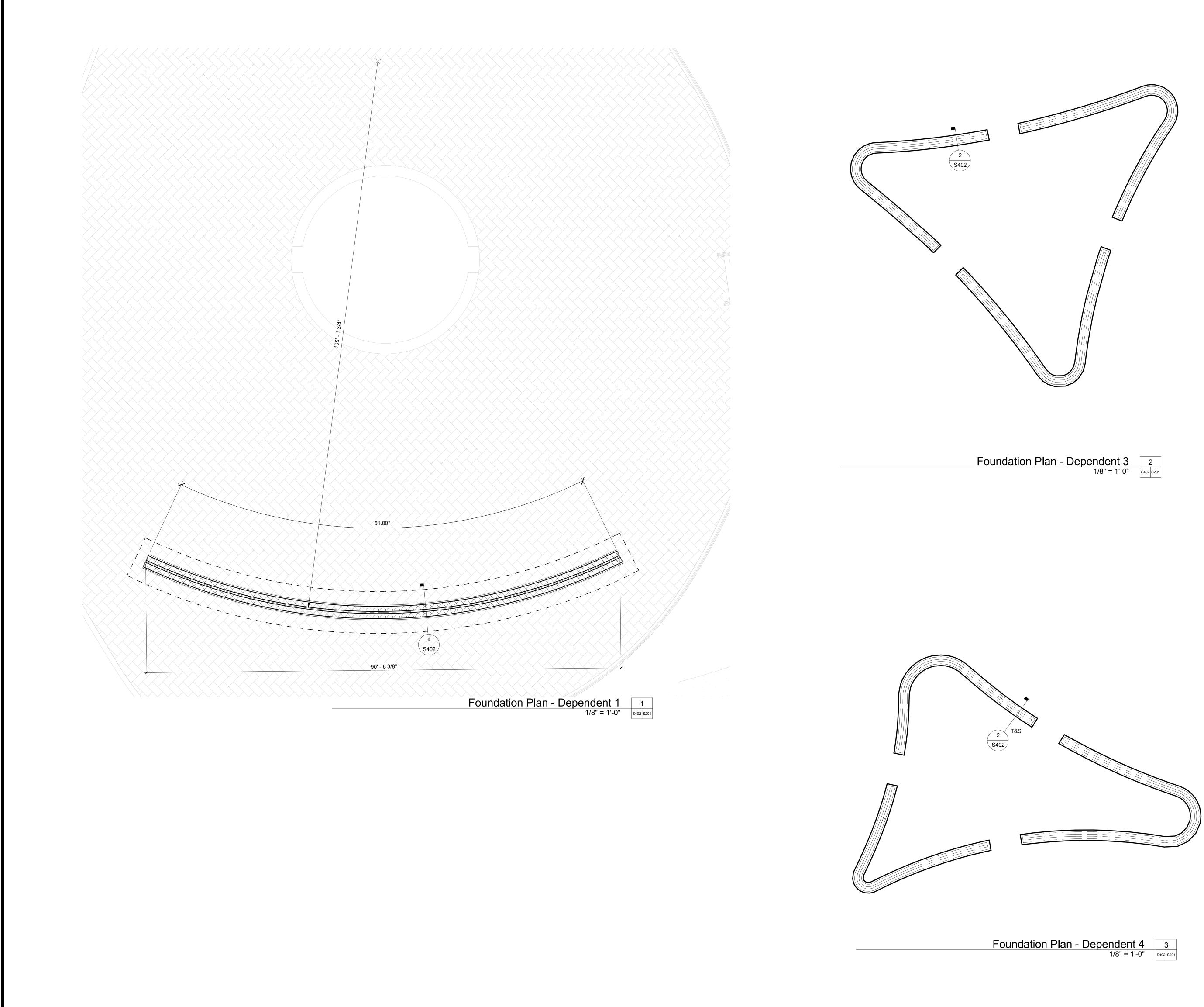
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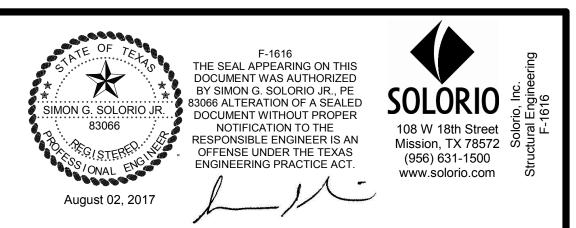
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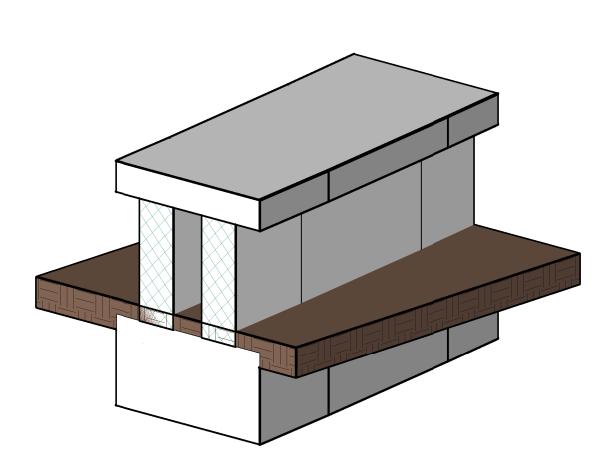


FOUNDATION NOTES

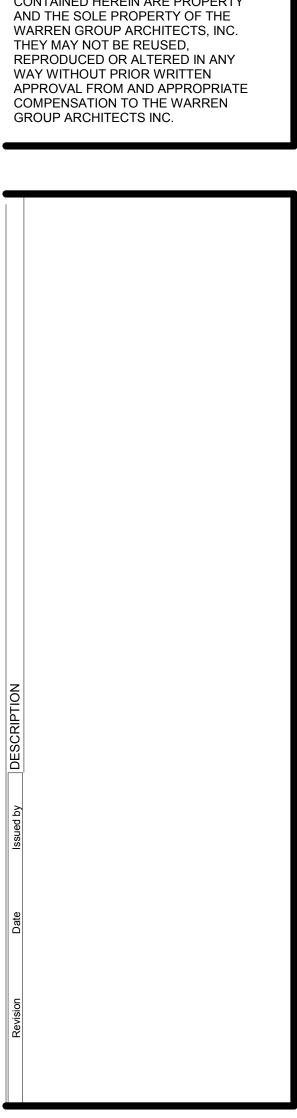
- 1. FOR GENERAL NOTES SEE SHEET S101 AND S102 2. FOR TYPICAL DETAILS SEE SHEETS NUMBER S400'S 3. CONTRACTOR/SUBCONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING ANY WORK. THE CONTRACTOR AND OR SUBCONTRACTOR SHALL REPORT ANY DISCREPANCIES TO
- THE ARCHITECT AND ENGINEER BEFORE THE WORK HAS BEGUN. 4. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DIMENSIONS. 5. REFER TO ARCHITECTURAL PLANS FOR FLOOR DRAIN LOCATIONS.
- 6. SLOPE SLAB TO DRAINS, SEE ARCHITECTURAL PLANS FOR SLOPE. 7. REFER TO ARCHITECTURAL PLANS FOR FLOOR FINISHES. ENGINEER IS NOT RESPONSIBLE FOR TYPE OF FLOOR FINISHES.
- 8. THE TESTING LABORATORY SHALL BE THE OWNERS REPRESENTATIVE TO CONTROL THE PLACEMENT OF COMPACTED FILL. THE TESTING LABORATORY SHALL APPROVE THE SUBGRADE PREPARATION, THE FILL MATERIALS, THE METHOD OF PLACEMENT AND COMPACTION, AND COMPACTION, AND SHALL GIVE WRITTEN APPROVAL OF THE COMPLETED FILL. THE TESTING LABORATORY SHALL INDICATE ON THERE REPORT THE ELEVATION OF THE COMPACTED SUBGRADE.
- 9. ALL EARTHWORK AND GRADING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEERING STUDY. THE MORE STRINGENT REQUIREMENTS BETWEEN THESE SUBGRADE NOTES AND GEOTECHNICAL ENGINEERING STUDY SHALL GOVERN AND EXECUTED BY THE CONTRACTOR.
- 10. IN THE EVENT FOUNDATION EXCAVATIONS ARE CARRIED TO A DEPTH GREATER THAN REQUIRED, THE ADDITIONAL DEPTH SHALL BE FILLED WITH THE SAME CONCRETE AS THAT USED FOR FOOTING AT NO ADDITIONAL EXPENSE TO THE OWNER. NO UNCONTROLLED FILL WILL BE PERMITTED. 11. THE FOOTING EXCAVATIONS SHALL BE KEPT FREE FROM LOOSE MATERIAL AND
- STANDING WATER. 12. THE FOUNDATION EXCAVATIONS SHOULD BE OBSERVED BY THE TESTING LABORATORY PRIOR TO STEEL OR CONCRETE PLACEMENT TO ASSESS THAT THE FOUNDATION MATERIALS ARE CAPABLE OF SUPPORTING THE DESIGN LOADS AND ARE CONSISTENT WITH THE MATERIALS DISCUSSED IN THE STUDY. THIS IS ESPECIALLY IMPORTANT TO IDENTIFY THE ACCEPTABILITY OF THE SUBGRADE OR FILL MATERIAL UNDER THE FOOTING. SOFT OR LOOSE SOIL ZONES ENCOUNTERED AT THE BOTTOM OF THE FOOTING OR BEAM EXCAVATIONS SHOULD BE EXCAVATIONS SHOULD BE REMOVED TO THE LEVEL OF COMPETENT SOIL AS
- DIRECTED BY THE TESTING LABORATORY. CAVITIES FORMED AS A RESULT OF EXCAVATION OF SOFT OR LOOSE SOIL ZONES SHOULD BE BACKFILLED WITH LEAN CONCRETE OR SELECT FILL AS DETERMINED BY THE TESTING LABORATORY. 13. CARE SHOULD BE TAKEN TO SHAPE THE BUILDING AREAS SUCH THAT WATER WILL NOT POND AROUND THE STRUCTURE DURING CONSTRUCTION AND CAUSE THE NEAR SURFACE CLAYS TO SWELL. THE PROPOSED STRUCTURE SHALL BE
- ISOLATED FROM ANY MOISTURE SOURCE WHICH MIGHT ALSO CAUSE SWELLING OF THE CLAYS AFTER COMPLETION OF THE CONSTRUCTION. 14. WHEN THE STRUCTURE IS COMPLETE, THE GROUND SURFACE SHOULD SLOPE AWAY FROM THE STRUCTURE AND DOWN SPOUTS SHOULD CARRY RUNOFF WATER SEVERAL FEET FROM THE BUILDING, PREFERABLY INTO PAVED AREAS OR SEWERS, BEFORE DISCHARGING.
- 15. DO NOT PLANT, OR LEAVE IN PLACE, DEEP ROOTED TREES WITHIN CLOSE PROXIMITY TO THE PERIMETER OF THE STRUCTURE. DEEP ROOTED TREES HAVE POTENTIAL TO REMOVE MOISTURE FROM BENEATH THE BUILDING IF PLANTED CLOSE ENOUGH TO ALLOW THE ROOT BULB EXTEND NEAR OR BENEATH THE BUILDING.
- 16. AIR CONDITIONING CONDENSER DRAIN LINES TO DISCHARGE WATER A MINIMUM OF 5 FEET FROM THE PERIMETER OF THE STRUCTURE. THE DISCHARGE AREA SHALL HAVE SUFFICIENT SLOPE AWAY FROM THE STRUCTURE TO PREVENT STANDING WATER.
- 17. THE FINAL ONE (1) FOOT OF FILL OUTSIDE THE BUILDING AREA SHOULD CONSIST OF A COHESIVE CLÀYEY (CL) SOIL. FILL CAN NOT BE ALLOWED TO DRY OUT DURING OR AFTER COMPACTION. (P1 BETWEEN 15 AND 25) 18. NOTE THAT SOME LEVELS OF RISK ARE ASSOCIATED WITH ALL FOUNDATION SYSTEMS AND THERE IS NO SUCH THING AS A "ZERO RISK" FOUNDATION. IT ALSO SHOULD BE NOTED THAT THE FOUNDATION PROVIDED IS NOT DESIGNED TO RESIST SOIL MOVEMENT AS A RESULT OF SEWER/PLUMBING LEAKS, EXCESSIVE IRRIGATION, NON UNIFORM IRRIGATION, POOR DRAINAGE, AND WATER PONDING
- NEAR THE FOUNDATION SYSTEM. 19. CONSTRUCTION FOLLOWING WET WEATHER PERIODS WILL LIKELY ENCOUNTER DIFFICULTIES DUE TO THE WET OR SOFT SURFACE SOILS BECOMING A GENERAL HINDRANCE TO EQUIPMENT DUE TO RUTTING AND PUMPING OF THE SOIL SURFACE. IF THE SUBGRADE CANNOT BE ADEQUATELY COMPACTED TO MINIMUM DENSITIES AS DESCRIBED ABOVE, ONE OF THE FOLLOWING MEASURES WILL BE REQUIRED: a) REMOVAL AND REPLACEMENT WITH SELECT FILL; b) CHEMICAL TREATMENT OF THE SOIL TO DRY SOIL AND INCREASE THE STABILITY OF THE SUBGRADE,

SLAB ON GRADE	
THICKNESS	5.0 INCHES
REINFORCING (EACH WAY)	#4 AT 14" O.C.
REINFORCING LOCATION	MID DEPTH
VISQUEEN	10 MIL

c) DRYING BY NATURAL MEANS.



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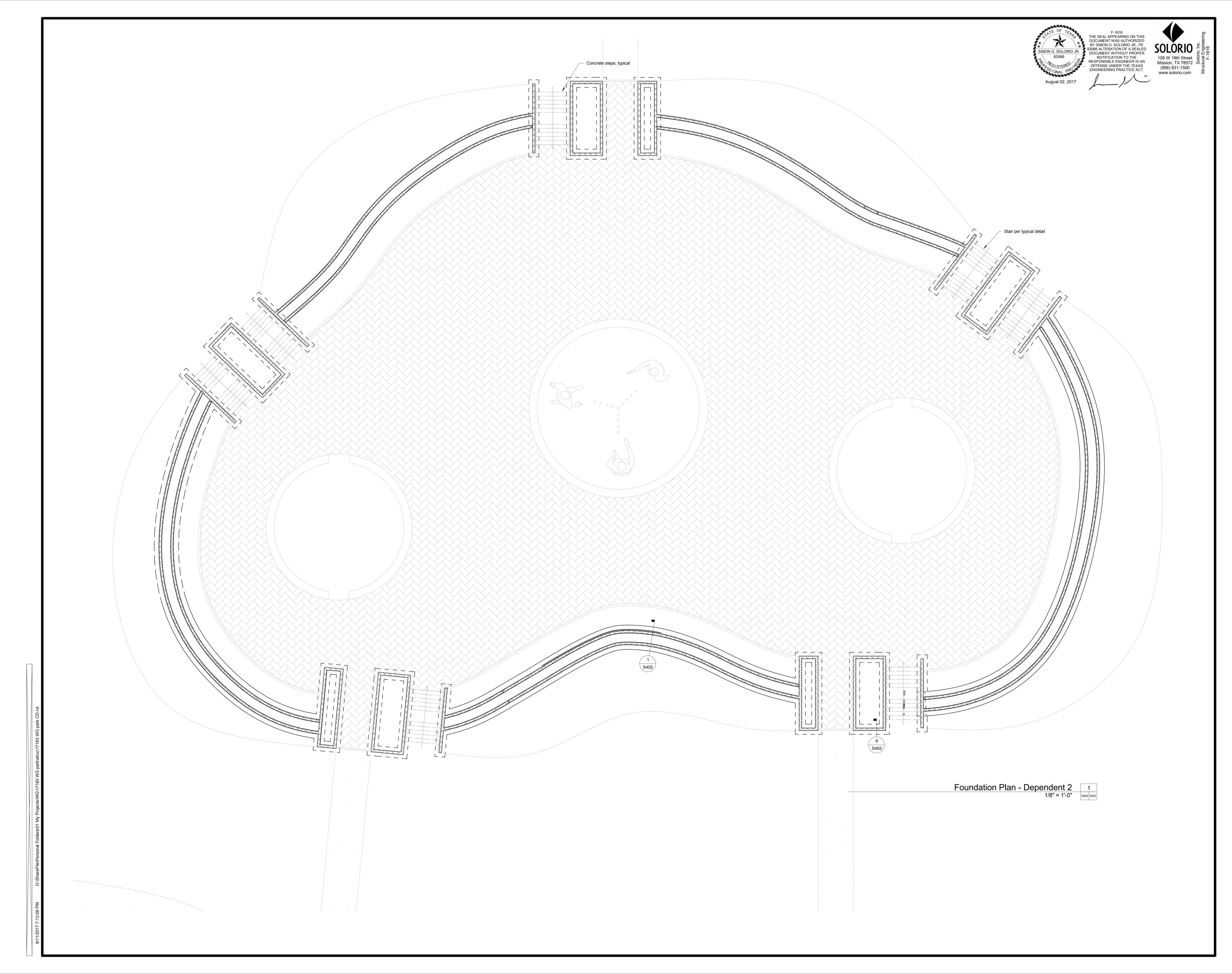


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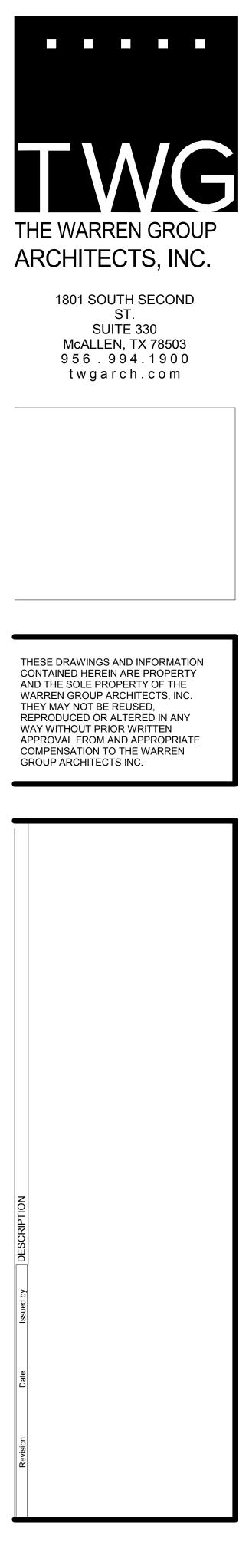
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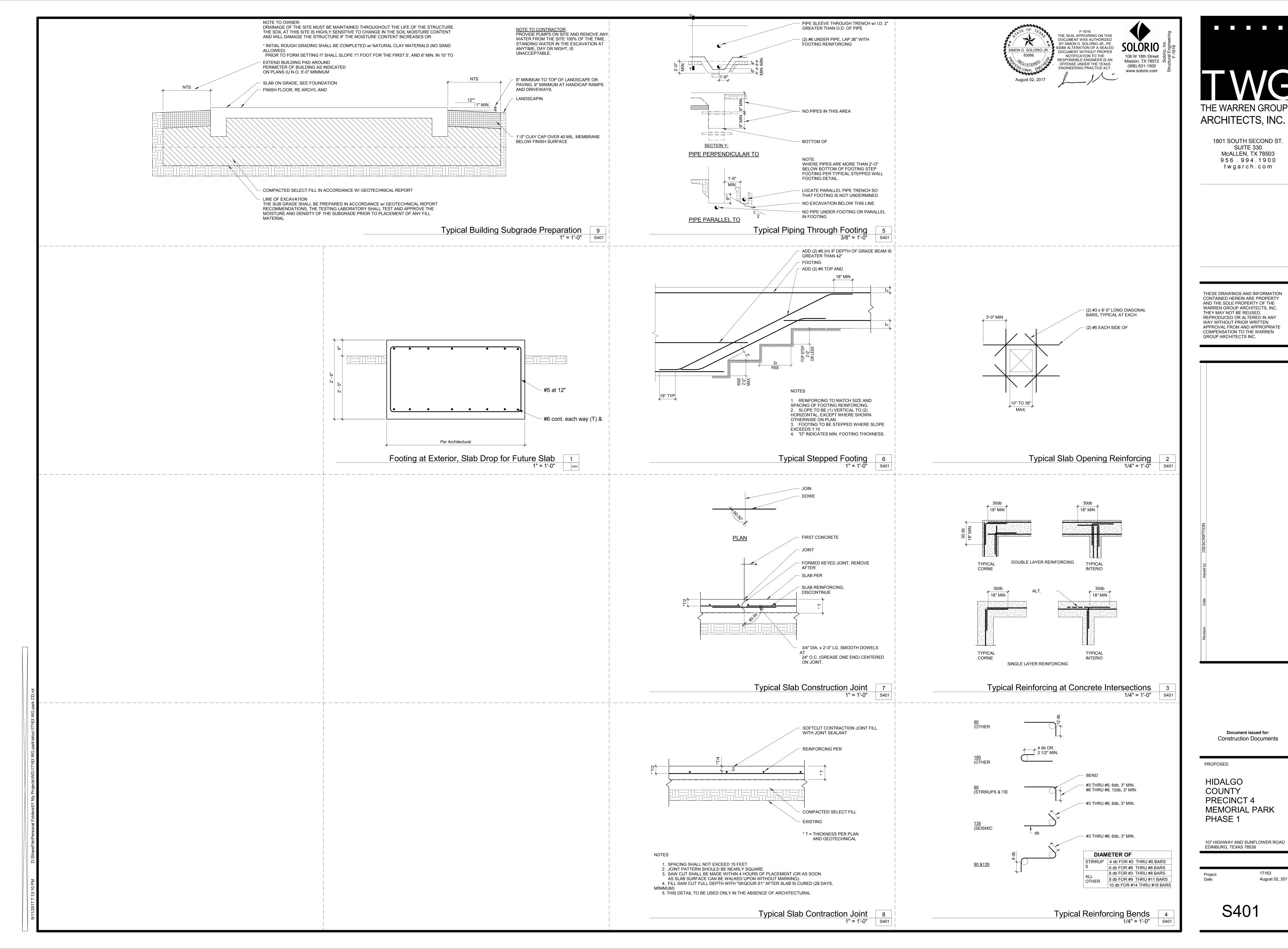




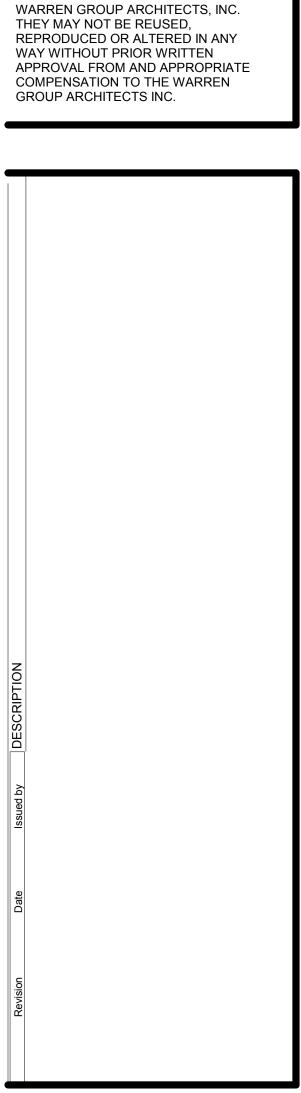
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Phase I107 HIGHWAY AND SUNFLOWER ROAD
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August 02, 2017

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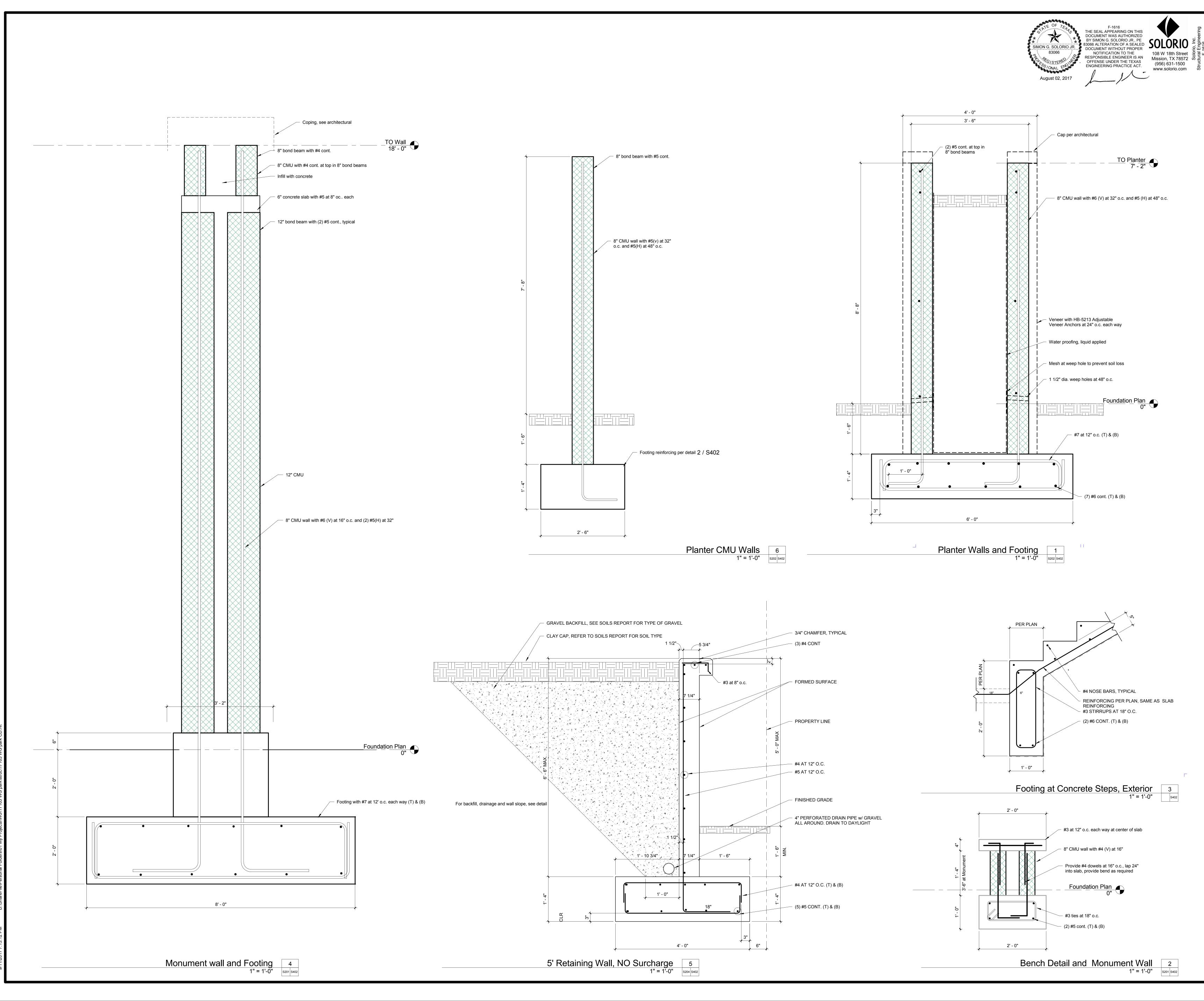


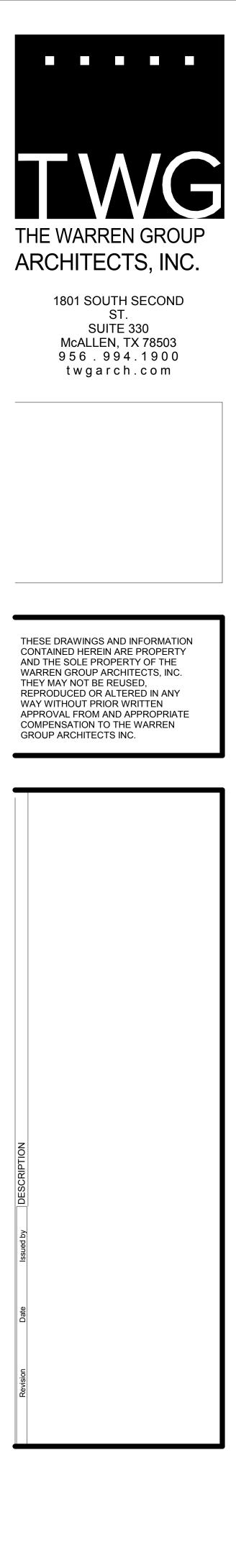
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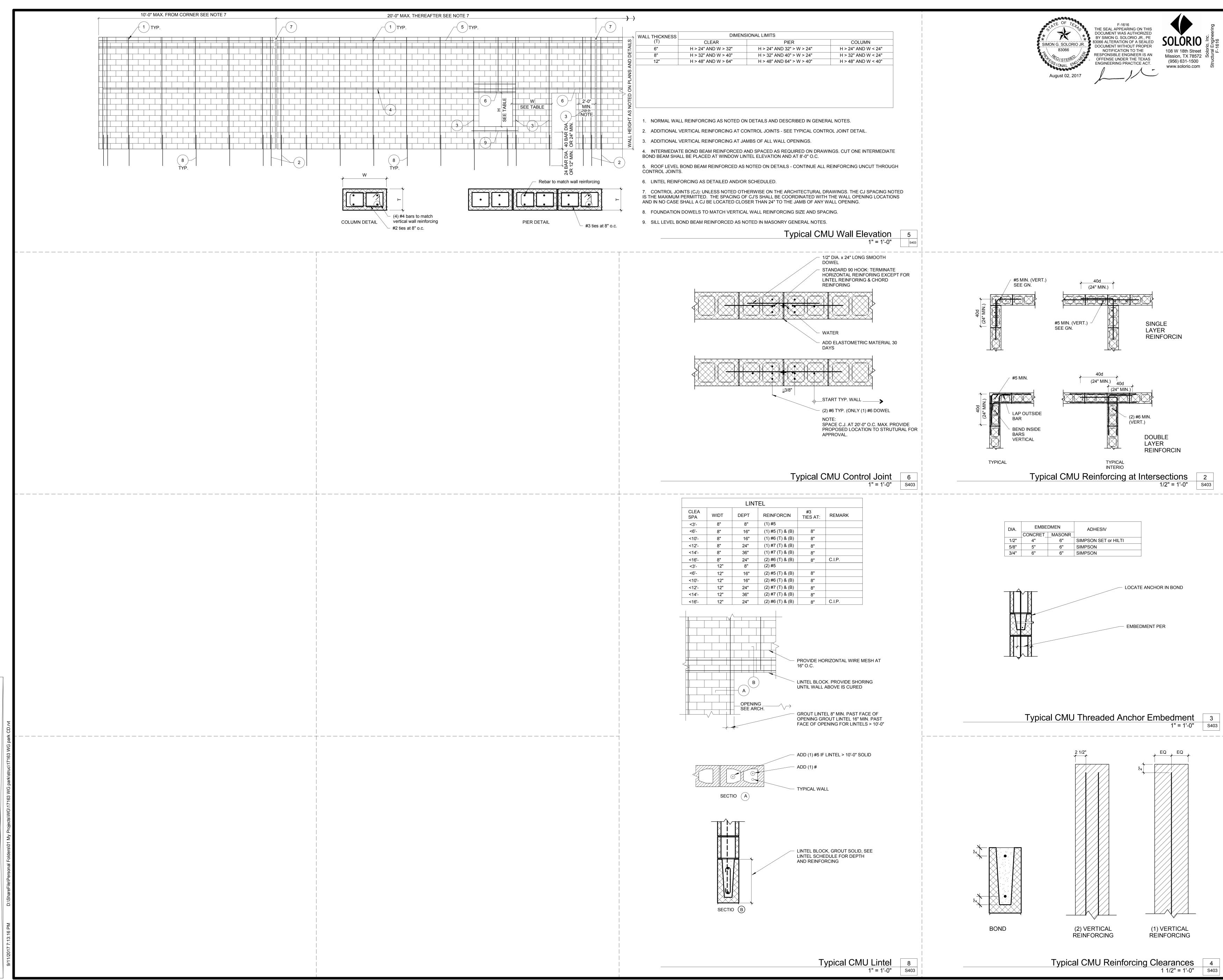
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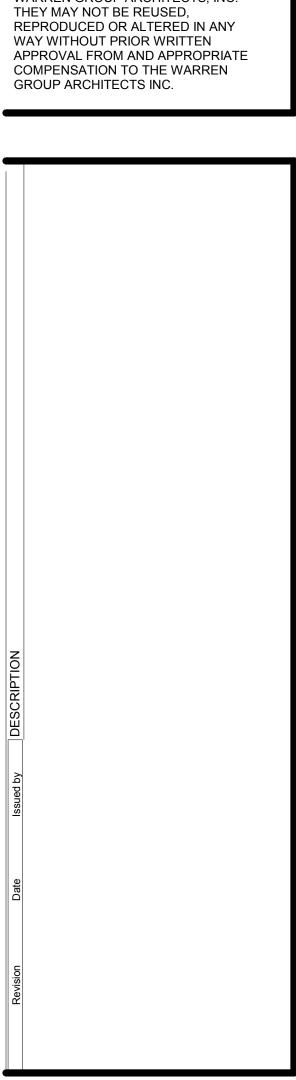
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17163 August 02, 2017



		LIN	ΓEL	
CLEA SPA	WIDT	DEPT	REINFORCIN	
<3'-	8"	8"	(1) #5	
<6'-	8"	16"	(1) #5 (T) & (B)	
<10'-	8"	16"	(1) #6 (T) & (B)	
<12'-	8"	24"	(1) #7 (T) & (B)	
<14'-	8"	36"	(1) #7 (T) & (B)	
<16'-	8"	24"	(2) #6 (T) & (B)	
<3'-	12"	8"	(2) #5	
<6'-	12"	16"	(2) #5 (T) & (B)	
<10'-	12"	16"	(2) #6 (T) & (B)	
<12'-	12"	24"	(2) #7 (T) & (B)	
<14'-	12"	36"	(2) #7 (T) & (B)	
<16'-	12"	24"	(2) #6 (T) & (B)	

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ELECTRICAL SPECIFICATIONS:

I. GENERAL CONDITIONS

- A. THE SCOPE OF THE WORK SHALL INCLUDE THE FURNISHING AND INSTALLATION OF THE NECESSARY MATERIAL AND LABOR TO ACCOMPLISH THE WORK INDICATED BY THE DRAWINGS AND HEREIN SPECIFIED. ALL WORK BY THIS CONTRACTOR SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES. WHERE CONFLICTS BETWEEN THIS SPECIFICATION AND THE BASE BUILDING SPECIFICATION EXIST, THE BASE BUILDING DOCUMENT SHALL GOVERN.
- B. THE CONTRACT DOCUMENTS DO NOT PROPOSE TO SHOW ALL EXISTING SYSTEMS, EQUIPMENT OR MATERIAL. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE EXISTING CONDITIONS AT THE JOB SITE BEFORE SUBMITTING PROPOSALS. SUBMISSION OF PROPOSALS SHALL BE TAKEN AS EVIDENCE THAT SUCH INSPECTION HAS TAKEN PLACE. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE COMPLETE SET OF CONSTRUCTION DOCUMENTS, AND THE LACK OF SPECIFIC INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY.
- MATERIALS AND EQUIPMENT FURNISHED UNDER THIS CONTRACT SHALL BE NEW AND SHALL BEAR THE U.L. LABEL WHERE APPLICABLE, UNLESS NOTED OTHERWISE. ALL WORK SHALL BE GUARANTEED AGAINST DEFECTIVE MATERIALS AND WORKMANSHIP FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR AFTER COMPLETION AND ACCEPTANCE BY THE OWNER.
- D. CONTRACTOR SHALL INSTALL ELECTRICAL SYSTEMS WITHOUT INTERFERENCE AND IN STRICT COORDINATION WITH OTHER TRADES.
- E. MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE CONTRACT DOCUMENTS AND APPLICABLE CODES AND STANDARDS. IN CASE OF DIFFERENCE BETWEEN APPLICABLE CODES AND STANDARDS AND THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF SUCH DIFFERENCE. SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH THE REQUIREMENTS OF APPLICABLE CODES AND STANDARDS, HE SHALL BEAR ALL COSTS ARISING IN CORRECTING SUCH DEFECTS. APPLICABLE CODES AND STANDARDS SHALL INCLUDE ALL ORDINANCES, UTILITY COMPANY REGULATIONS, AND APPLICABLE REQUIREMENTS OF NATIONALLY ACCEPTED CODES AND STANDARDS. SHOULD THE CONTRACTOR SUPPLY EQUIPMENT DIFFERING FROM THE SPECIFIED ITEMS IN THE CONTRACT DOCUMENTS WITHOUT NOTIFICATION TO THE ENGINEER, HE SHALL BEAR ALL COSTS TO UPGRADE DEFICIENCIES ARISING FROM SUCH.
- F. WHERE ONLY ONE MANUFACTURER'S NAME IS LISTED IN THE EQUIPMENT SPECIFICATION. OTHER MANUFACTURERS OF SIMILAR CHARACTERISTICS AND OF EQUAL OR BETTER PERFORMANCE CAPACITIES MAY BE CONSIDERED FOR "OR EQUAL" ACCEPTANCE BY THE ENGINEER. SUBSTITUTION REQUESTS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL. WHERE MORE THAN ONE MANUFACTURER IS LISTED IN THE NOTES AND EQUIPMENT SPECIFICATIONS, ONLY THOSE NAMED MANUFACTURERS WILL BE CONSIDERED FOR ACCEPTANCE. SHOULD A SUBSTITUTION BE ACCEPTED, AND SHOULD THE SUBSTITUTE MATERIAL PROVE DEFECTIVE, OR OTHERWISE UNSATISFACTORY FOR THE SERVICE INTENDED WITHIN THE GUARANTEE PERIOD, THIS MATERIAL OR EQUIPMENT SHALL BE REPLACED WITH THE MATERIAL OR EQUIPMENT SPECIFIED AT NO COST TO THE OWNER.
- G. PROVIDE ACCESS, INCLUDING NECESSARY ACCESS DOORS, FOR NEW AND EXISTING EQUIPMENT REQUIRING OPERATION AND/OR MAINTENANCE. RELOCATE EXISTING AND LOCATE ALL NEW EQUIPMENT SUCH THAT OPERATION OR MAINTENANCE IS NOT RESTRICTED.
- H. INSTALL EQUIPMENT WITH WORKING CLEARANCES COMPLYING WITH NEC 110–16 AND 110-34.
- I. CONTRACTOR SHALL FURNISH COMPLETE BROCHURES (SUBMITTALS) IN QUADRUPLICATE OF ALL MATERIALS AND EQUIPMENT PRIOR TO COMMENCING ANY WORK. DATA SHALL INCLUDE DESCRIPTIVE LITERATURE, PERFORMANCE DATA, DIAGRAMS, CAPACITY INFORMATION, ETC., TO SUBSTANTIATE THAT PROPOSED EQUIPMENT WILL MEET ALL OF THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.

II. PRODUCTS A. CONDUIT

- 1. RIGID STEEL CONDUIT (GRC GALVANIZED RIGID CONDUIT): CONSTRUCTED OF MILD STEEL PIPING, GALVANIZED INSIDE AND OUTSIDE, CONFORMING WITH FED. SPEC. WW-C-581C, ANSI C80.1 AND APPLICABLE UL STANDARDS.
- INTERMEDIATE METAL CONDUIT (IMC): CONSTRUCTED OF ZINC COATED STEEL TUBING MANUFACTURED IN ACCORDANCE WITH UL-1242 AND MEETING THE REQUIREMENTS OF THE NEC.
- ELECTRIC METALLIC TUBING (EMT): OF HIGH GRADE STEEL MANUFACTURED SPECIFICALLY TO STANDARDS ASSURING MAXIMUM WELDING CHARACTERISTICS AND DUCTILITY, AND SHALL CONFORM TO FED. SPEC. WW-T-806b.
- 4. FLEXIBLE METAL CONDUIT: MANUFACTURED OF MILD STEEL STRIP MATERIAL HAVING A HOT-DIP GALVANIZED COATING AND MEETING REQUIREMENTS OF FED. SPEC. WW-C-566b.
- 5. LIQUIDTIGHT FLEXIBLE CONDUIT: FLEXIBLE METAL CONDUIT AS SPECIFIED HEREIN WITH A COPPER GROUNDING STRAND AND FACTORY-APPLIED NEOPRENE JACKET. LIQUID TIGHT FLEXIBLE CONDUIT SHALL BE UL LISTED, EQUIVALENT TO ANACONDA "SEALTITE", TYPE UA.
- 6. METAL-CLAD CABLE MAY BE USED. TYPE MC METAL CLAD CABLE SHALL BE HOSPITAL GRADE AND CONSIST OF FACTORY ASSEMBLED INSULATED CONDUCTORS ENCLOSED IN A METALLIC SHEATH OF INTERLOCKED GALVANIZED STEEL STRIP MANUFACTURED IN ACCORDANCE WITH UL 1569. THE CONDUCTORS SHALL HAVE AN OPERATING TEMPERATURE OF 90 DEGREE C AND SHALL BE COVERED BY A HIGH DIELECTRIC STRENGTH ASSEMBLY TAPE. TYPE MC CABLE SHALL BE AS MANUFACTURED BY AFC OR EQUAL.
- B. COUPLINGS AND TERMINATORS
 - 1. FOR RIGID STEEL OR INTERMEDIATE METAL CONDUIT: FACTORY-MADE THREADED COUPLINGS OF SAME MATERIAL AS THE CONDUIT.
 - 2. FOR ELECTRICAL METALLIC TUBING: STEEL SET SCREW COUPLINGS; STEEL SET SCREW BOX CONNECTORS WITH NYLON INSULATED THROAT AND LOCKNUTS AT ALL BOXES AND CABINET TERMINATIONS OR NON-INSULATED BOX CONNECTOR, LOCKNUT AND NYLON-INSULATED GROUNDING BUSHING GROUNDING BUSHING ON ALL TUBING WHERE GROUNDING BUSHINGS ARE REQUIRED.
 - 3. FOR FLEXIBLE METAL CONDUIT: COUPLINGS AT CONNECTIONS BETWEEN FLEXIBLE CONDUIT AND EMT, AND NYLON INSULATED THROAT STEEL CONNECTORS AT BOX OR CABINET TERMINATIONS.
- C. JUNCTION AND PULL BOXES
 - SIZE BOXES IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEC. BOXES SHALL BE NO SMALLER THAN 4 INCHES SQUARE BY 1-1/2 INCHES DEEP WITH COVERS ACCESSIBLE AT ALL TIMES. SET BOXES ON CONCEALED CONDUITS WITH COVERS FLUSH WITH THE FINISHED WALL OR CEILING LINE. PROVIDE JUNCTION AND PULL BOXES OF APPROPRIATE DIMENSIONS FOR CONDUITS AND CONDUCTORS NOTED, WHERE SHOWN AND WHERE NECESSARY FOR THE INSTALLATION AND PULLING OF CABLES AND WIRES. INSTALL COVERS ON JUNCTION BOXES AND CONDULETS AFTER WIRING AND CONNECTIONS ARE COMPLETED.

D.	FOR LIGHT	T BOXES SHALL BE THE APPLICATION. C TER THAN 14 GAUGE, OF BOX WILL FINISH FOR LIGHTING FIXTU
		DEEP WITH RAISED

- b. FOR WALL SWITCHES, RECEPTACLES, AND COMMUNICATION USE: 4 INCH SQUARE, BY 1-1/2 INCHES DEEP. USE BOXES WITH PLASTER RINGS IN ALL PLASTERED WALLS WHERE WALL THICKNESS PERMITS. USE BOXES LESS THAN 1-1/2 INCH DEEP ONLY IN LOCATIONS WHERE DEEP BOXES CANNOT BE ACCOMMODATED BY CONSTRUCTION. E. WIREWAY
- 1. UL LISTED; SIZED INDICATED OR REQUIRED; HINGED COVER, SECURED WITH CAPTIVE SCREWS; COMPLETE WITH ALL REQUIRED FITTINGS, COUPLINGS, HANGERS AND ACCESSORIES.
- 2. CORROSION RESISTANT PRIMER AND ANSI GRAY EPOXY PAINT FINISH. CORROSION RESISTANT BOLTS OR SCREWS. SCREWS OR BOLTS INSTALLED TOWARD THE INSIDE FITTED WITH SPRING NUTS OR OTHERWISE PREVENTED FROM DAMAGING CONDUCTOR INSULATION. F. PULL CORDS
- PROVIDE A NYLON POLYETHYLENE CORD, WITH A TENSILE STRENGTH OF NOT LESS THAN 200 POUNDS, IN EACH EMPTY CONDUIT TO FACILITATE THE FUTURE INSTALLATION OF CONDUCTORS. INCORPORATE PLASTIC TAGS FOR IDENTIFICATION. G. CONDUCTORS
- 1. CONDUCTORS SHALL BE 98% CONDUCTIVITY SOFT DRAWN ANNEALED COPPER, 600 VOLT, THHN/THWN INSULATION, #12 AND LARGER - STRANDED.
- 2. NO CONDUCTORS SHALL BE SMALLER THAN NO. 12, EXCEPT FOR SIGNAL OR CONTROL CIRCUITS AND FOR INDIVIDUAL LIGHTING FIXTURE TAPS AS PERMITTED BY NEC. FOR HOME RUNS ON 120-VOLT, 20-AMPERE BRANCH CIRCUITS, WHERE
- LENGTH OF RUN FROM PANELBOARD TO FIRST OUTLET EXCEEDS 100 LINEAR FEET, USE NO. 10 CONDUCTORS. WHERE LENGTH OF RUN IS 100 LINEAR FEET OR LESS, USE NO. 12 CONDUCTORS.
- 4. FOR HOME RUNS ON 277-VOLT, 20-AMPERE BRANCH CIRCUITS, WHERE LENGTH OF RUN FROM PANELBOARD TO FIRST OUTLET EXCEEDS 200 LINEAR FEET. USE NO. 10 CONDUCTORS. WHERE LENGTH OF RUN IS 100 LINEAR FEET OR LESS, USE NO. 12 CONDUCTORS. H. WIRING DEVICES. COVER PLATES AND ACCESSORIES
- 1. PROVIDE WIRING DEVICES AND ASSOCIATED ACCESSORIES. DEVICES OF LEVITON, HUBBELL OR PASS & SEYMORE ARE ACCEPTABLE. SUBMIT FOR REVIEW A COMPLETE LIST OF ANY SUBSTITUTES OFFERED FROM THOSE SPECIFIED.
- COLOR OF WALL SWITCHES, RECEPTACLES AND FACEPLATES: AS SPECIFIED OR SELECTED BY ARCHITECT.
- 3. WHERE LIGHTING CIRCUITS ARE SHOWN TO BE LINE VOLTAGE SWITCHED, PROVIDE WITH SPECIFICATION GRADE, HORSEPOWER RATED, UL LISTED, BACK- AND SIDE-WIRED, TOGGLE SWITCHES RATED 20-AMP, 120 VOLTS OR 277 VOLTS. SWITCHES SHALL BE SPST, DPST, 3-WAY OR 4-WAY, WITH OR WITHOUT PILOT LIGHT, AS INDICATED ON THE DRAWINGS.
- RECEPTACLES a. STANDARD WALL RECEPTACLES SHALL BE COMMERCIAL GRADE, RATED 20-AMP, 120-VOLT, 2 POLE, 3-WIRE, GROUNDING TYPE, SIDE-WIRED, NEMA 5-20R, EQUAL TO PASS & SEYMOUR CR20 (MATCH EXISTING BUILDING STANDARD).
- INDICATED ON THE DRAWINGS.
- c. GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLES SHALL BE 20 AMP, 120 VOLT, 2 POLE, 3-WIRE, NEMA 5-20R.
- MAINTAIN GROUNDING CONTINUITY BETWEEN DEVICES AND METALLIC RACEWAY SYSTEM IN ADDITION TO PROVIDING A GREEN EQUIPMENT GROUNDING CONDUCTOR RUN WITH ALL CIRCUIT CONDUCTORS AS INDICATED ON THE DRAWINGS, EXCEPT CARE SHALL BE TAKEN WHEN INSTALLING RECEPTACLES HAVING ISOLATED GROUND POLE SO AS TO NOT BOND THE EQUIPMENT GROUND CONDUCTOR TO THE CONDUIT SYSTEM.

d. RECEPTACLES ON EMERGENCY POWER SHALL BE RED.

- 6. ELECTRICAL CONTRACTOR SHALL LABEL EACH EMERGENCY RECEPTACLE IDENTIFYING THE SPECIFIC ELECTRICAL PANEL AND CIRCUIT THAT SERVED THAT RECEPTACLE I. OVERCURRENT PROTECTIVE DEVICES 1. MOLDED CASE CIRCUIT BREAKERS
- IN WHICH INSTALLED. b. ONE, TWO OR THREE POLE WITH RATINGS INDICATED ON THE DRAWINGS; (STANDARD) OR (HIGH INTERRUPTING) CONSTRUCTION AS REQUIRED BY THE SHORT CIRCUIT RATINGS INDICATED ON THE DRAWINGS
- c. QUICK-MAKE, QUICK-BREAK, CALIBRATED FOR OPERATION IN AN AMBIENT TEMPERATURE OF 40¢C. TRIP INDICATION BY HANDLE POSITION, TRIP-FREE. TWO AND THREE POLE BREAKERS: COMMON TRIP WITH SINGLE OPERATING HANDLE WITHOUT HANDLE TIES, PERMANENT TRIP UNIT CONTAINING INDIVIDUAL THERMAL AND MAGNETIC TRIP ELEMENTS IN EACH POLE. FRAME SIZES GREATER THAN 100 AMPERES: VARIABLE MAGNETIC TRIP ELEMENTS WHICH ARE SET BY A SINGLE ADJUSTMENT.
- d. REMOVABLE LUGS, UL LISTED FOR COPPER AND ALUMINUM CONDUCTORS. LISTED FOR INSTALLATION OF MECHANICAL OR COMPRESSION TYPE LUGS.

2. FUSES

- LITTLEFUSE.
- b. FOR CIRCUITS RATED 601 AMPERES TO 6000 AMPERES, 600 VOLT AC. FUSES SHALL BE UL LISTED CLASS L. CURRENT LIMITING. TIME-DELAY WITH 200,000 AMPERE RMS SYM INTERRUPTING RATING. c. FOR CIRCUITS RATED 0 TO 600 AMPERES. 250 VOLT OR 600 VOLT AC, FUSES SHALL BE UL LISTED CLASS RK1, CURRENT LIMITING,
- INTERRUPTING RATING. OF EACH RATING.

E UL LISTED, AND OF SIZES AND TYPES REQUIRED OUTLET BOXES SHALL BE SHEET STEEL. NO , GALVANIZED AFTER FABRICATION. SET BOX SO H FLUSH WITH BUILDING SURFACE. FURE OUTLETS: 4 INCH SQUARE BY 1-1/2 INCHES) FIXTURE RING.

b. SPECIAL PURPOSE RECEPTACLES SHALL BE COMMERCIAL GRADE DEVICES FOR THE NEMA CONFIGURATIONS SCHEDULED OR

a. AS MANUFACTURED BY THE MANUFACTURER OF THE PANELBOARD

- a. AS MANUFACTURED BY BUSSMAN, GOULD-SHAUMUT OR
 - DUAL ELEMENT TIME-DELAY WITH 200,000 AMPERES RMS SYM
- d. PROVIDE SPARE FUSES AS FOLLOWS: 600A AND SMALLER 10% OR EACH RATING (MINIMUM OF 3 PER RATING). 601A AND LARGER – 3

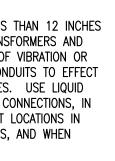
- J. DISCONNECT SWITCHES
- 1. AS MANUFACTURED BY SQUARE D, CUTLER-HAMMER OR SIEMENS.
- 2. FUSIBLE/NON-FUSIBLE SWITCHES
- a. ALL SWITCHES: HEAVY DUTY TYPE; UL LISTED AND MEET LATEST NEMA STANDARDS KS-1; HORSEPOWER RATED; QUICK-MAKE, QUICK-BREAK; VISIBLE BLADES IN "OFF" POSITION; REMOVABLE ARC SUPPRESSORS; LUGS FRONT REMOVABLE AND UL LISTED FOR 75°C ALUMINUM OR COPPER WIRE: OPERATING HANDLE IN CONTROL OF SWITCH WITH DOOR OPEN AND CLOSED; HANDLE POSITION CLEARLY INDICATE "ON" AND "OFF" POSITIONS; PROVISIONS FOR PADLOCKING IN "OFF" POSITION; SAFETY INTERLOCKS TO PREVENT THE ENCLOSURE DOOR FROM BEING OPENED WHILE THE HANDLE IS IN THE "ON" POSITION AND TO PREVENT THE HANDLE FROM BEING TURNED TO THE "ON" POSITION WHILE THE ENCLOSURE DOOR IS OPEN; MEANS TO PERMIT AUTHORIZED PERSONNEL TO RELEASE THE SAFETY INTERLOCKS FOR MAINTENANCE OR INSPECTION; AUXILIARY POLES, AS REQUIRED, TO DISCONNECT CONTROL VOLTAGE(S) WHEN POWER VOLTAGE IS DISCONNECTED.
- b. ENCLOSURES: NEMA 1 OR NEMA 3R, AS INDICATED ON DRAWINGS; CLEAN STEEL, GALVANIZED AFTER FORMING, PRIMED AND GREY BAKED ENAMEL FINISHED; NEMA 1 COVERS ON PIN TYPE HINGES; NEMA 3R COVERS SECURABLE IN THE OPEN POSITION. INTERCHANGEABLE BOLT-ON THREADED HUBS ON NEMA 3R SWITCHES THRU 200 AMPERE.
- c. FUSIBLE SWITCHES: FOR 600 AMPERE AND SMALLER SWITCHES, PROVIDE UL LISTED REJECTION CLIPS TO REJECT ALL FUSES EXCEPT CLASS R: FOR 800 AMPERE AND LARGER SWITCHES. PROVIDE FUSE CLIPS FOR CLASS L FUSES. ALL SWITCHES UL LISTED SHORT CIRCUIT RATING OF 200,00 AMPERES RMS SYMMETRICAL.
- K. GROUNDING

L. LIGHTING FIXTURES

- 1. GROUNDING SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
- 2. GROUNDING CONDUCTORS SHALL BE ANNEALED COPPER CABLES OF THE SIZES INDICATED OR REQUIRED.
- 3. A "GREEN WIRE" EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITHIN EACH FEEDER AND BRANCH CIRCUIT RACEWAY, WHETHER METALLIC OR NON-METALLIC, TO FORM A COMPLETE AND CONTINUOUS GROUNDING PATH. CONNECT GROUNDING CONDUCTORS TO GROUND TERMINALS AT EACH END OF THE RUN.
- 1. INSURE EACH LIGHTING FIXTURE HAS AN OPERATING SET OF LAMPS EQUAL TO EXISTING OR OF THE TYPES SHOWN ON THE DRAWINGS AND/OR SPECIFIED HEREIN. LAMPS SHALL BE MANUFACTURED BY GENERAL ELECTRIC, PHILIPS, OR OSRAM/SYLVANIA, EXCEPT WHERE SCHEDULED OTHERWISE.
- 2. INCANDESCENT LAMPS: IN GENERAL, THEY SHALL BE INSIDE FROSTED. ENERGY-SAVING STYLE DESIGNED FOR 130-VOLT OPERATION. WHERE REFLECTOR STYLE LAMPS ARE SCHEDULED. FURNISH BEAM PATTERN INDICATED ON THE DRAWINGS. SPECIAL PURPOSE INCANDESCENT AND INCANDESCENT QUARTZ LAMPS: OF WATTAGE, AND CONFIGURATION AS SCHEDULED AND AS RECOMMENDED BY THE LUMINAIRE MANUFACTURER.
- 3. FLUORESCENT LAMPS: IN GENERAL, 48–INCH LENGTH, T–8, RAPID START, ENERGY-SAVING LAMPS; LAMP COLOR AS INDICATED.
- 4. FLUORESCENT BALLASTS: IN GENERAL, ELECTRONIC TYPE FOR BOTH STANDARD FLUORESCENT AND COMPACT FLUORESCENT; INPUT POWER FACTOR ABOVE 95%, THD LESS THAN 10%; AS MANUFACTURED BY MOTOROLA.
- 5. HIGH INTENSITY DISCHARGE (HID) BALLASTS: HIGH INTENSITY DISCHARGE (HID) BALLASTS: IN GENERAL, REGULATORY TYPE DESIGNED TO START AND OPERATE THE SPECIFIED LAMP COMBINATION. UNIT DESIGNED FOR RELIABLE START AND OPERATION TO AN AMBIENT TEMPERATURE OF -20 LESS THAN 95%; AS MANUFACTURED BY ADVANCE OR MAGNETEK.
- 6. PROVIDE A LIGHTING FIXTURE COMPLETE WITH LAMPS, BALLASTS, AND OTHER REQUIRED APPURTENANCES FOR EACH LIGHTING OUTLET SHOWN ON THE DRAWINGS. LIGHT FIXTURES SHALL BE AS DESCRIBED IN THE "LIGHTING FIXTURE SCHEDULE". EACH UNIT SHALL BE FURNISHED WITH ALL MOUNTING AND TRIM ACCESSORIES TO SUIT THE SPECIFIC SERVICES APPLIED. FINISHES SHALL BE FACTORY-STANDARD, EXCEPT WHERE SCHEDULED OTHERWISE.
- 7. PROVIDE LIGHTING FIXTURES IN ACCORDANCE WITH THE DESIGNATIONS AND DESCRIPTIONS ON THE DRAWINGS. WHERE A SINGLE MANUFACTURER AND ASSOCIATED CATALOG NUMBER IS SCHEDULED, IT IS TO ESTABLISH A DESIRED TYPE AND STANDARD OF QUALITY.
- 8. LIGHTING FIXTURES SHALL BE UL LABELED.
- M. FIRE ALARM SYSTEM
- 1. FIRE ALARM BY FIRE ALARM CONTRACTOR AS REQUIRED FOR SPRINKLER RISER AND BUILDING FIRE ALARM. 2. NONCODED ADDRESSABLE SYSTEM, WITH AUTOMATIC SENSITIVITY CONTROL
- OF CERTAIN SMOKE DETECTORS AND MULTIPLEXED SIGNAL TRANSMISSION, DEDICATED TO FIRE-ALARM SERVICE ONLY. 3. ACCEPTABLE MANUFACTURERS: NOTIFIER, EDWARDS, SIEMENS-CERBERUS,
- SIMPLEXGRINNELL-TYCO. N. TELEPHONE/DATA SYSTEM
- 1. AT ALL WALL DATA/VOICE OUTLET LOCATIONS, PROVIDE BACK BOXES AND 3/4" EMPTY CONDUIT WITH PULL CORD TO ABOVE CEILING. 0. TRANSIENT VOLTAGE SURGE SUPPRESSION
- 1. TYPE 1 SERVICE ENTRANCE SWITCHBOARD SUPPRESSORS 200ka/Phase - Options - Furnish with sine-wave tracking. Led LIGHTS, AUDIBLE ALARM, ONE SET OF DRY CONTACTS, AND SURGE EVENT COUNTER.
- 2. TYPE 2 DISTRIBUTION PANELBOARD SUPPRESSORS 160kA/PHASE - OPTIONS - FURNISH WITH LED LIGHTS, AUDIBLE ALARM, ONE SET OF DRY CONTACTS, AND SURGE EVENTS COUNTER.
- 3. TYPE 3 ELECTRONIC GRADE SUPPRESSORS 80kA/PHASE - OPTIONS - FURNISH WITH LED LIGHTS, AUDIBLE ALARM, ONE SET OF DRY CONTACTS, AND SURGE EVENTS COUNTER. III. EXECUTION
- A. INSTALLATION OF BUILDING CONDUIT
- 1. ALL INTERIOR RACEWAYS SHALL BE EMT. RACEWAYS IN DAMP OR WET LOCATIONS, OR IN HAZARDOUS LOCATIONS, SHALL BE GRC OR IMC.
- 2. CONDUITS SHALL BE OF SUCH SIZE AND SO INSTALLED THAT THE CONDUCTORS MAY BE DRAWN THROUGH WITHOUT INJURY OR EXCESSIVE STRAIN, SHALL BE SECURED AT CABINETS AND BOXES WITH GALVANIZED LOCKNUTS, BOTH INSIDE AND OUTSIDE, AND SHALL HAVE APPROPRIATE BUSHINGS INSIDE. BUSHINGS SHALL BE INSULATING TYPE WITH BOND GROUND CLAMPS.

- 3. USE LENGTHS OF FLEXIBLE METAL CONDUIT NOT LESS THAN 12 INCHES LONG AT FINAL CONNECTIONS TO ALL MOTORS, TRANSFORMERS AND SIMILAR DEVICES SUBJECT TO MOVEMENT BECAUSE OF VIBRATION OR MECHANICAL ADJUSTMENT. USE FLEXIBLE METAL CONDUITS TO EFFECT FINAL CONNECTIONS TO RECESSED LIGHTING FIXTURES. USE LIQUID TIGHT FLEXIBLE METAL CONDUIT. WITH APPROPRIATE CONNECTIONS, IN DAMP OR WET LOCATIONS, AT MOTOR OR EQUIPMENT LOCATIONS IN MECHANICAL EQUIPMENT ROOMS, AT OR NEAR PUMPS, AND WHEN INSTALLED OUTDOORS.
- 4. GROUND METALLIC CONDUITS AS REQUIRED BY NEC. 5. INSTALL RACEWAYS CONTINUOUS FROM OUTLET TO OUTLET BOX, OR CABINET, WITH A MAXIMUM OF 150 FEET BETWEEN PULLS. IN AREAS WHERE THERE ARE NO SUSPENDED CEILINGS, RUN ALL CONDUITS PARALLEL/PERPENDICULAR TO BUILDING SURFACE PLANES.
- 6. IN SYSTEMS OPERATING AT MORE THAN 300 VOLTS BETWEEN PHASE CONDUCTORS, AND WHERE DIFFERENT PHASE CONDUCTORS ARE TO BE RUN TO A COMMON GANG WALL SWITCH BOX, PROVIDE SUBSTANTIAL BARRIERS BETWEEN ADJACENT SWITCHES IN THE BOX SO THAT TWO DIFFERENT PHASE WIRES WILL NOT BE IN THE SAME COMPARTMENT.
- 7. WHEREVER RACEWAYS PASS THROUGH FLOORS, WALLS, PENETRATIONS, OR OTHER PARTITIONS, CAREFULLY FILL ANY SPACE BETWEEN THE OUTSIDE OF THE RACEWAY AND THE BUILDING MATERIAL TO PREVENT PASSAGE OF AIR, WATER, SMOKE, AND FUMES. FILLING MATERIAL SHALL BE A UL LISTED, INTUMESCENT SEALING HAVING FIRE/SMOKE RESISTIVE
- RATING EQUAL TO THE BUILDING MATERIAL PENETRATED. 8. TYPE MC METAL CLAD CABLES SHALL BE ACCEPTABLE TO BE INSTALLED IN WALLS AND CEILINGS IN CONFORMANCE WITH THE REQUIREMENTS OF NEC 334. TYPE MC CABLE SHALL BE USED ONLY FOR BRANCH CIRCUITS FOR LIGHTING AND HVAC VAV BOXES. TYPE MC CABLE SHALL NOT BE USED FOR FEEDERS OR MULTIPLE BRANCH CIRCUIT HOMERUNS, AND MORE SPECIFICALLY, SHALL NOT BE USED FOR POWER CIRCUITS, AND KITCHEN EQUIPMENT BRANCH CIRCUITS. TYPE MC CABLE SHALL NOT BE UTILIZED WITHIN ELECTRICAL EQUIPMENT ROOMS. CABLE SHALL TRANSITION TO A RIGID TYPE CONDUIT PRIOR TO ENTERING ELECTRICAL EQUIPMENT ROOMS.
- 9. CONDUITS UTILIZED THROUGHOUT THE PROJECT SHALL NOT BE SMALLER THAN 3/4 INCH FOR FEEDERS. MULTIPLE BRANCH CIRCUIT HOMERUNS AND HOMERUNS OF CONDUCTORS LARGER THAN NO. 12. INDIVIDUAL BRANCH CIRCUIT WIRING FOR NO. 12 CONDUCTORS SHALL BE ACCEPTABLE IN 1/2" CONDUIT, I.E. 2#12, 1#12G, 1/2"C.
- B. INSTALLATION OF PULL AND JUNCTION BOXES
- 1. FASTEN ALL BOXES SECURELY TO THE BUILDING CONSTRUCTION, INDEPENDENT OF CONDUIT SYSTEMS.
- 2. ON CONCEALED CONDUIT SYSTEMS WHERE BOXES ARE NOT OTHERWISE ACCESSIBLE, SET BOXES FLUSH WITH FINISHED SURFACES FOR ACCESS AND PROVIDE OVERLAPPING COVERS. C. INSTALLATION OF OUTLET BOXES
 - 1. TERMINATE CONDUITS AT A METAL OUTLET BOX AT EACH OUTLET OR DEVICE. ALL BOXES SHALL CONFORM TO THE NEC. 2. OUTLET BOXES SHALL BE SUPPORTED INDEPENDENT OF THE CONDUIT
- SYSTEM. D. INSTALLATION OF CONDUIT HANGERS AND SUPPORTS
- 1. FURNISH AND INSTALL ALL HANGERS AND SUPPORTS REQUIRED BY RACEWAY SYSTEMS.
- 2. SUPPORT ALL ABOVE-GROUND ELECTRICAL CONDUITS FROM THE BUILDING STRUCTURE/CONSTRUCTION. SUPPORT CONDUITS RUNNING VERTICALLY OR HORIZONTALLY ALONG WALLS WITH GALVANIZED MALLEABLE IRON ONE-HOLE CLAMPS. CARRY INDIVIDUALLY SUPPORTED HORIZONTAL CONDUITS 1-1/4 INCH AND LARGER ON SUITABLE HANGERS.
- 3. LOCATE HANGERS AND TRAPEZES TO SUPPORT HORIZONTAL RACEWAYS WITHOUT APPRECIABLE SAGGING. HANGER SPACING SHALL NOT EXCEED NEC REQUIREMENTS, OR RECOMMENDATIONS OF THE NECA "STANDARD OF INSTALLATION".
- 4. WHERE CONDUITS SMALLER THAN 1-1/4 INCH ARE INSTALLED ABOVE REMOVABLE TYPE DRY CEILINGS, SUPPORT THEM ON SUITABLE HANGER RODS WITH METAL CLIPS AT A DISTANCE ABOVE THE CEILING SUFFICIENT TO PERMIT REMOVAL OF CEILING PANELS AND LAY-IN LIGHT FIXTURES. LOCATE SUCH CONDUITS SO AS NOT TO HINDER ACCESS TO MECHANICAL EQUIPMENT THROUGH CEILING PANELS.
- E. INSTALLATION OF CONDUCTORS
- 1. PULL NO CONDUCTORS INTO CONDUITS UNTIL ALL WORK OF A NATURE WHICH MAY CAUSE INJURY TO CONDUCTORS IS COMPLETED.
- 2. RUN FEEDERS IN CONTINUOUS PIECES, WITHOUT JOINTS OR SPLICES, INSOFAR AS PRACTICABLE.
- 3. RUN CONDUITS FOR EMERGENCY POWER CONDUCTORS SEPARATE FROM ALL OTHER WIRING.
- F. SEGREGATION OF WIRING SYSTEMS
- 1. SEGREGATION OF WIRING SYSTEMS SHALL NOT BE COMPROMISED BY THE USE OF COMMON PULLBOXES, WIREWAYS, CABINETS OR ANY OTHER TYPE OF ENCLOSURE.
- 2. THE RACEWAY SYSTEM FOR EACH FEEDER SHALL BE A SEPARATE SYSTEM COMPLETELY FAULT ISOLATED FROM ALL OTHER RACEWAY SYSTEMS.
- 3. THE RACEWAY SYSTEM FOR THE BRANCH CIRCUITS OF EACH PANELBOARD SHALL BE A SEPARATE SYSTEM COMPLETELY FAULT ISOLATED FROM ALL OTHER RACEWAY SYSTEMS. G. EQUIPMENT CONNECTIONS AND CONTROL WIRING
- 1. THE FURNISHING AND INSTALLATION OF CONTROL POWER WIRING REQUIRED FOR EQUIPMENT FURNISHED UNDER DIVISION 15 AND NOT SHOWN ON THE ELECTRICAL DRAWINGS SHALL BE FURNISHED UNDER DIVISION 15. CONTROL POWER WIRING IS DEFINED AS THE LINE VOLTAGE (120V) POWER WIRING FOR EQUIPMENT CONTROL CABINETS, TEMPERATURE CONTROL. ENERGY MANAGEMENT. OR BUILDING AUTOMATION SYSTEM PANELS AND LINE VOLTAGE SMOKE/FIRE DAMPERS.
- 2. THE FURNISHING AND INSTALLATION OF THE TEMPERATURE CONTROL WIRING, ENERGY MANAGEMENT SYSTEM OR BUILDING AUTOMATION WIRING NOT SHOWN ON THE ELECTRICAL DRAWINGS SHALL BE FURNISHED UNDER DIVISION 15. TEMPERATURE CONTROL, ENERGY MANAGEMENT AND BUILDING AUTOMATION SYSTEM.





MANAGEMENT SYSTEM AND BUILDING AUTOMATION SYSTEM WIRING IS DEFINED AS THE INTERLOCK OR INTERCONNECTING WIRING REQUIRED BETWEEN SYSTEM CONTROL DEVICES, APPURTENANCES AND CONTROL PANELS TO ALLOW THE SYSTEM TO FUNCTION AUTOMATICALLY. THIS INCLUDES WIRING BETWEEN THE FIRE ALARM SYSTEM, SMOKE EXHAUST SYSTEMS, DOOR ENTRY SYSTEMS AND ANY OTHER SYSTEM REQUIRING INTERFACE WITH THE TEMPERATURE CONTROL, ENERGY

- 3. PROVIDE POWER WIRING TO EACH MOTOR-DRIVEN AND/OR ELECTRICALLY-OPERATED SYSTEM OR UNIT OF EQUIPMENT. THE WIRING SHALL ALLOW THE MOTOR(S) OR EQUIPMENT TO OPERATE IN A MANUAL MODE.
- 4. CONTROL WIRING WILL, UNLESS SPECIFICALLY NOTED OTHERWISE, BE FURNISHED AND INSTALLED UNDER
- OTHER DIVISIONS OF THE SPECIFICATIONS. 5. EXCEPT FOR ITEMS THAT ARE FURNISHED WITH FACTORY-INSTALLED, INTEGRAL MOTORS, AN ELECTRIC
- MOTOR OF REQUIRED SIZE AND ELECTRICAL CHARACTERISTICS WILL BE PROVIDED AND INSTALLED UNDER OTHER DIVISIONS FOR EACH ITEM OF MOTOR-DRIVEN EQUIPMENT. COMPLETE THE ELECTRICAL INSTALLATION OF THESE MOTORS IN ACCORDANCE WITH APPROVED WIRING DIAGRAMS AND INSTRUCTIONS.
- 6. WHERE DISCONNECT SWITCHES OR CIRCUIT BREAKERS ARE NOT PROVIDED INTEGRAL WITH CONTROL EQUIPMENT FOR MOTORS AND OTHER ELECTRICAL APPURTENANCES, PROVIDE AND INSTALL ALL DISCONNECT SWITCHES REQUIRED BY THE NATIONAL ELECTRICAL CODE AND/OR INDICATED.
- 7. WHERE POSSIBLE, TERMINATE CONDUITS IN CONDUIT BOXES ON MOTORS. WHERE MOTORS ARE NOT PROVIDED WITH CONDUIT BOXES, TERMINATE THE CONDUITS IN CONDUIT FITTINGS AT THE MOTORS.
- I. TEMPORARY SERVICES
- 1. TEMPORARY SERVICES: ARRANGE FOR SOURCES OF TEMPORARY CONSTRUCTION SERVICES. SUCH SERVICES SHALL BE NOMINALLY 120/208 VOLT, 3-PHASE, 4-WIRE FROM WHICH A COMPLETE SYSTEM OF TEMPORARY POWER AND LIGHTING SHALL BE PROVIDED FOR ALL CONSTRUCTION NEEDS.
- J. CONTRACTOR SHALL KEEP A CLEAN SET OF DRAWINGS ON THE JOB, NOTING DAILY ALL CHANGES MADE IN THESE DRAWINGS IN CONNECTION WITH THE FINAL INSTALLATION INCLUDING EXACT DIMENSIONED LOCATIONS OF ALL NEW AND UNCOVERED EXISTING UTILITIES AND SHALL, WITH HIS REQUEST FOR FINAL PAYMENT, TURN OVER A CLEAN, NEATLY MARKED SET OF REPRODUCIBLE MYLARS SHOWING "AS INSTALLED" WORK TO THE ARCHITECT FOR SUBSEQUENT REVIEW AND TRANSMITTAL TO THE OWNER. CONTRACTOR SHALL NOTE ALL CONSTRUCTION CHANGES, DATE EACH SHEET AND LABEL "AS-BUILTS" IN THE REVISION BLOCK ON THE DRAWINGS. CONTRACTOR SHALL ALSO FURNISH ONE (1) SET OF "AS-BUILT" BLUELINE PRINTS.
- K. IN ADDITION TO THE ABOVE, CONTRACTOR SHALL ACCUMULATE DURING THE JOB'S PROGRESS, THE FOLLOWING DATA, IN TRIPLICATE, PREPARED IN A NEAT BROCHURE OR PACKET FOLDER AND TURNED OVER TO THE ARCHITECT FOR REVIEW AND SUBSEQUENT DELIVERY TO THE OWNER.
- 1. ALL WARRANTIES AND GUARANTEES AND MANUFACTURER'S DIRECTIONS ON EQUIPMENT AND MATERIAL COVERED BY THE CONTRACT INCLUDING THE NAMES, ADDRESSES AND TELEPHONE NUMBERS OF THE MANUFACTURER'S REPRESENTATIVE.
- 2. APPROVED FIXTURE BROCHURES, WIRING DIAGRAMS AND CONTROL DIAGRAMS (ORIGINAL DATA, NO COPIES).
- 3. COPIES OF APPROVED SHOP DRAWINGS.
- 4. OPERATING INSTRUCTIONS FOR ALL ELECTRICAL SYSTEM EQUIPMENT. OPERATING INSTRUCTIONS SHALL ALSO INCLUDE RECOMMENDED MAINTENANCE PROCEDURES.
- 5. TEST REPORTS REQUIRED BY THESE SPECIFICATIONS. 6. ANY AND ALL OTHER DATA AND/OR DRAWINGS REQUIRED DURING CONSTRUCTION.
- 7. REPAIR PARTS LISTS OF ALL MAJOR ITEMS OF EQUIPMENT INCLUDING NAME, ADDRESS AND TELEPHONE NUMBERS OF LOCAL SUPPLIER OR AGENT.
- L. ALL OF THE ABOVE DATA SHALL BE SUBMITTED TO THE ENGINEER FOR HIS REVIEW AT SUCH TIME AS THE CONTRACTOR SUBMITS HIS LAST ESTIMATE PRIOR TO HIS FINAL PAYMENT, BUT IN NO CASE, LESS THAN TWO WEEKS BEFORE FINAL INSPECTION.
- M. NORMAL FUNCTIONS OF OCCUPIED AREAS MUST CONTINUE DURING THE CONSTRUCTION PHASES. EVERY EFFORT SHALL BE MADE TO INSURE SUCH FUNCTIONS ARE NOT DISTURBED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND REMOVAL OF TEMPORARY SYSTEMS AS REQUIRED TO MAINTAIN THE FUNCTIONS OF OCCUPIED AREAS.





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PROPOSED

HIDALGO COUNTY PRECINCT 4 MEMORIAL PARK PHASE 1

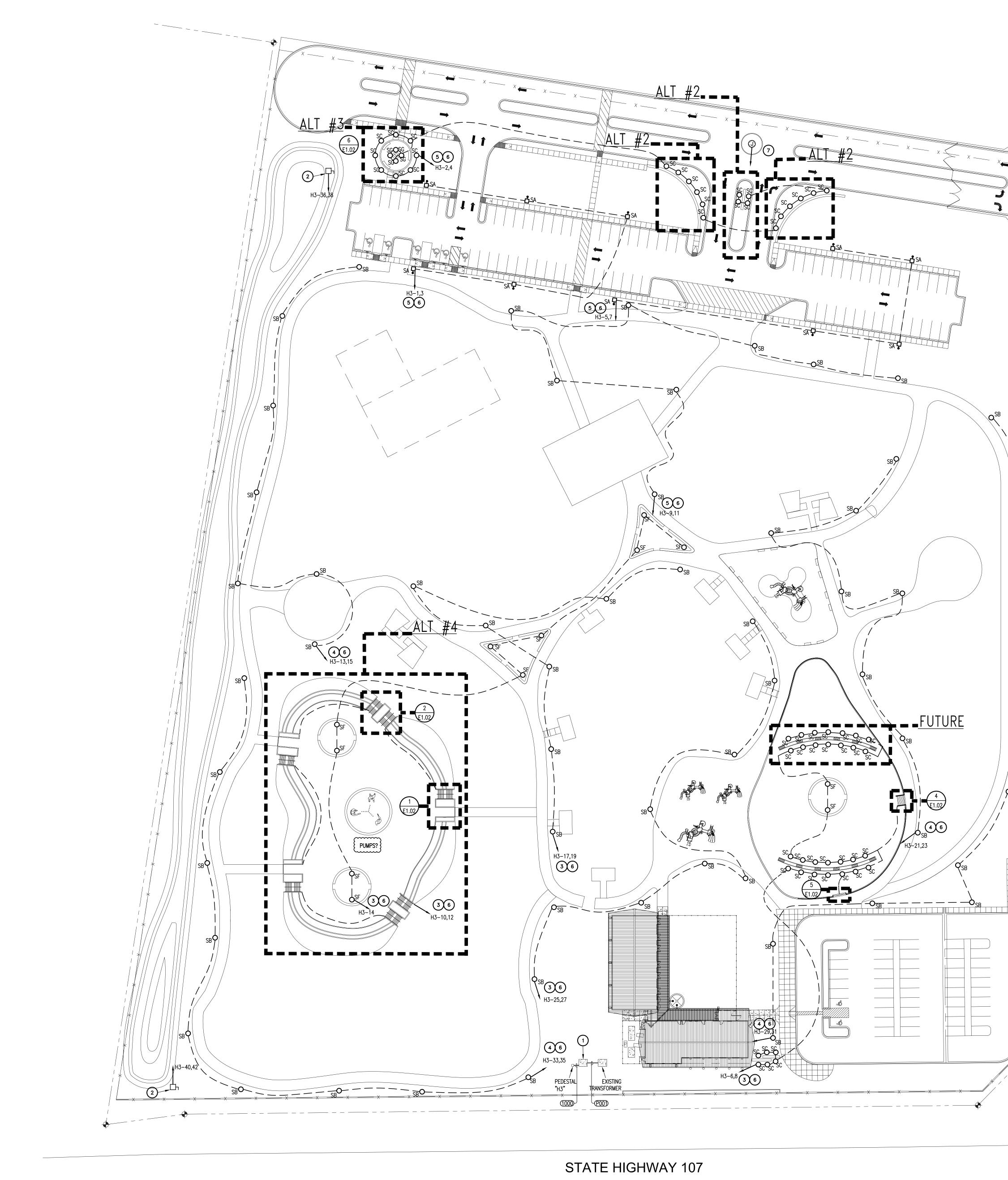
CORNER OF 107 & SUNFLOWER ROAD EDINBURG, TEXAS

PROJECT DATE REVISED E1.00

ELECTRICAL

SPECIFICATIONS

1341701 08/02/2017



1 ELECTRICAL SITE PLAN SCALE: 1"=40'-0"

<u>GENERAL NOTES: ()</u>

(A) INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPTANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE ENGINEER.

<u>KEYED NOTES:</u>O

- 1 TRANSFORMER PAD FOR UTILITY COMPANY TRANSFORMER.
- 2 FURNISH AND INSTALL 30/-/2 NEMA 3R DISCONNECT FOR CONNECTION OF PUMP. ROUTE 3# 6 #10G, 1"C
- 3 ROUTE 2# 10, #10G, 3/4" C
- 4 ROUTE 2# 8, #10G, 3/4" C
- 5 ROUTE 2# 6, #10G, 3/4" C

GOVERNING CODES AND DESIGN INTENT.

- 6 LIGHTING CIRCUIT SHALL BE CONTROLLED VIA THE LIGHTING CONTROLLER WITH A 7-DAY, 24 HOUR, PROGRAMMABLE, ASTRONOMICAL TIME CLOCK AND BY-PASS PHOTOCELL. PHOTOCELL MOUNTED ON BUILDING EXTERIOR ON NORTH WALL FACING EXPOSURE.
- ROUTE 1" C TO PEDESTAL H3 FOR FUTURE CONNECTION OF MONUMENT.

FIELD VERIFY ALL CONDITIONS DESIGN DRAWINGS SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FEILD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECCESSARY FOR FEILD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN

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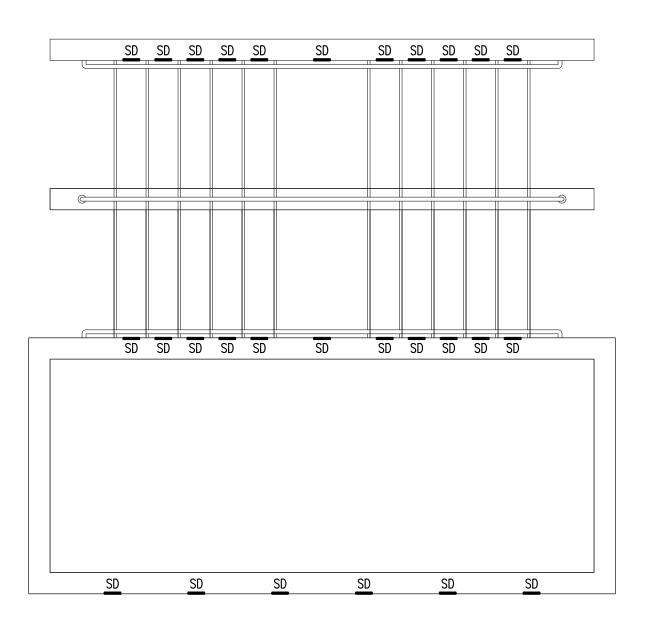
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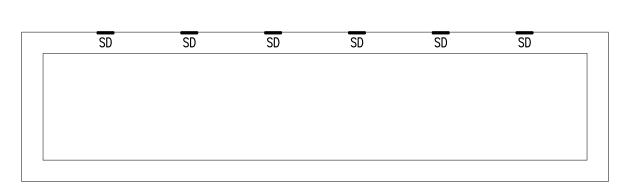
HIDALGO COUNTY PRECINCT 4 MEMORIAL PARK PHASE 1

CORNER OF 107 & SUNFLOWER ROAD EDINBURG, TEXAS

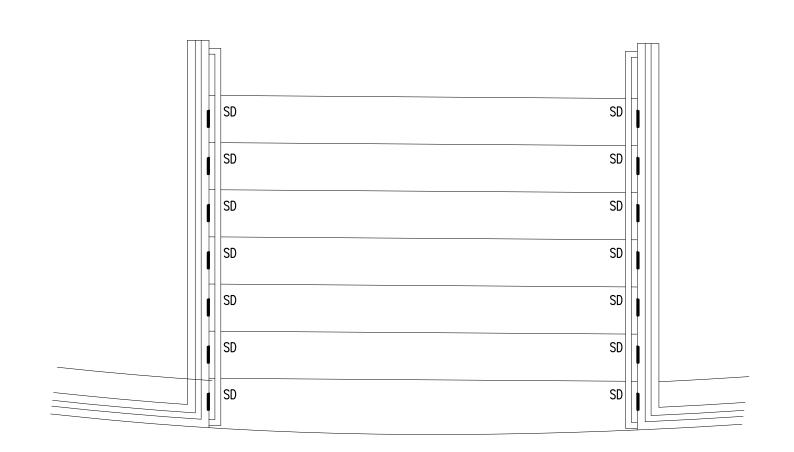
ELECTRICAL SITE PLAN

1341701 08/02/2017

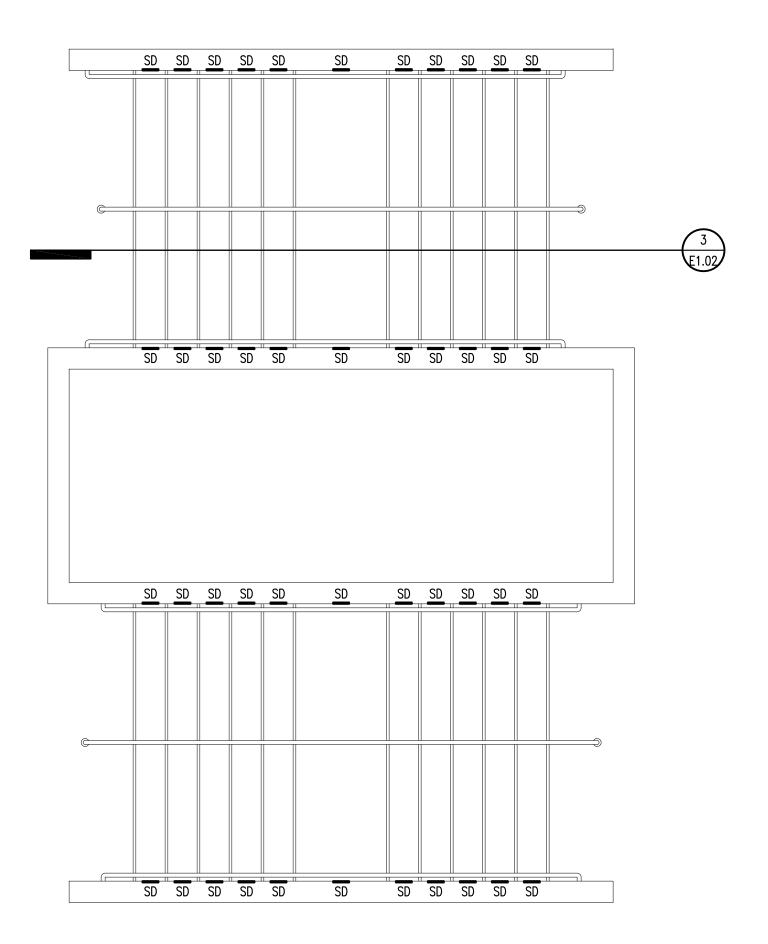




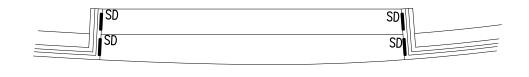








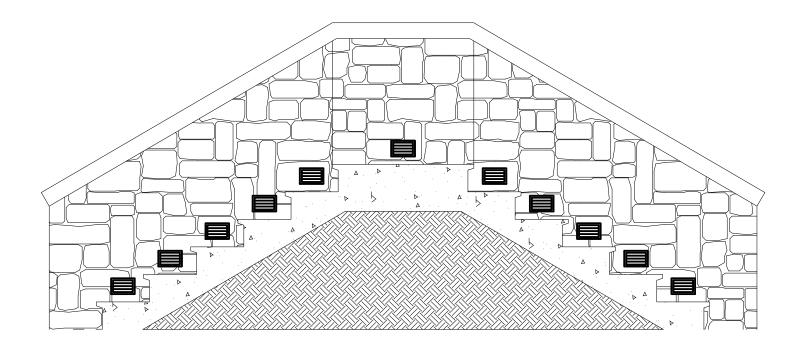




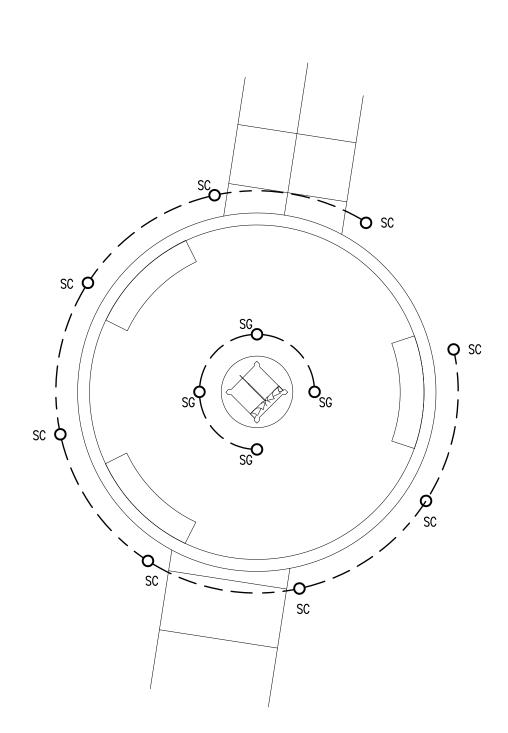


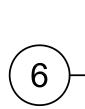
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2 ROUTE AS DIRECTED BY UTILITY COMPANY.









ENLARGED - ELECTRICAL LIGHTING WINDMILL MEMORIAL. SCALE: N.T.S. (ALT. 3)





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HIDALGO COUNTY PRECINCT 4 MEMORIAL PARK PHASE 1

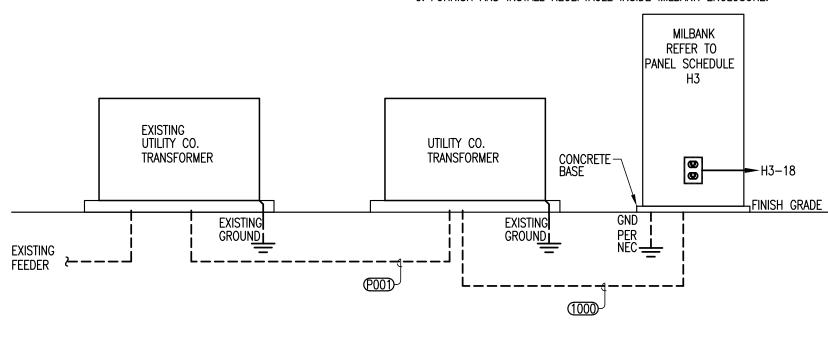
CORNER OF 107 & SUNFLOWER ROAD EDINBURG, TEXAS



I	ELECTRICAL LEGEND							
	ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.							
SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)						
	2'x4' FLUORESCENT LIGHT FIXTURE	SEE FIX. SCH.						
	2'x4' FLUORESCENT LIGHT FIXTURE ON BATTERY PACK	SEE FIX. SCH.						
ОЮ	INCANDESCENT, FLUORESCENT, OR HID FIXTURE CLG. OR WALL MTD.	SEE FIX. SCH.						
⊗ 😣 ⊦☎ Iİ	EXIT LIGHT, CEILING OR WALL MOUNTED – SHADING INDICATING SINGLE OR DOUBLE FACE; DIRECTIONAL ARROWS AS INDICATED	9" BFC						
\$	WALL SWITCH SPST, 20A,120/277V	48" AFF						
\$ 3	3-WAY WALL SWITCH, 20A,120/277V	48" AFF						
\$ D	WALL DIMMER SWITCH	48" AFF						
€	DUPLEX RECEPTACLE – 20A/125V/1P/3W/G NEMA 5–20R	15" AFF						
€ _{wP} €	DUPLEX RCPT. GFI/WATER PROOF – 20A/125V/1P/3W/G NEMA 5–20R	15" AFF						
	QUADRAPLEX RECEPTACLE (TWO DUPLEX RCPTS. UNDER ONE COVERPLATE)	15" AFF						
◀	TELEPHONE/DATA OUTLET. WALL MOUNTED—STUB 3/4" ABOVE ACCESSIBLE CEILING FROM 2 GANG BOX W/1 GANG RETAINER RING.	15" AFF						
MHM	TELEVISION OUTLET. CLG. OR WALL MOUNTED – STUB 1" C. ABOVE CEILING FROM OUTLET BOX	-						
□ 30/-/3	DISCONNECT SWITCH – 30/-/3 INDICATES 30A, 3-POLE, NONFUSED; 30/30/3 INDICATES 30A, 3-POLE, 30A FUSE	AS REQD.						
☑ 30/30/3	DISCONNECT SWITCH – 30/30/3 INDICATES 30A, 3–POLE, 30A FUSE	AS REQD.						
	PANELBOARD	-						
2	SINGLE LINE CONTINUATION	_						
	CIRCUIT HOME RUN TO PANELBOARD (2 #12, 1 #12G, 3/4"C. 20A/1P CB UNO)	-						
Х,Х,Х	THREE SINGLE POLE DEVICE CIRCUIT NUMBERS	-						
MD	MOTION DETECTOR	_						
D	DOOR CONTACT	_						
K	SECURITY KEYPAD							
	ABOVE BACK SPLASH GFI GROUND FAULT INTERRUPTE	R						
	ABOVE FINISHED FLOOR BFC BELOW FINISHED CEILING							
15" AFF IN	NDICATES TO TOP OF DEVICE; NDICATES TO BOTTOM OF DEVICE; 2 MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.							

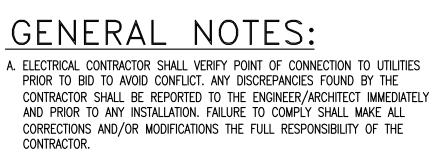


CONTRACTOR. COMPANY. C. FURNISH AND INSTALL RECEPTACLE INSIDE MILBANK ENCLOSURE.





ELECTRICAL LEGEND SCALE: N.T.S.



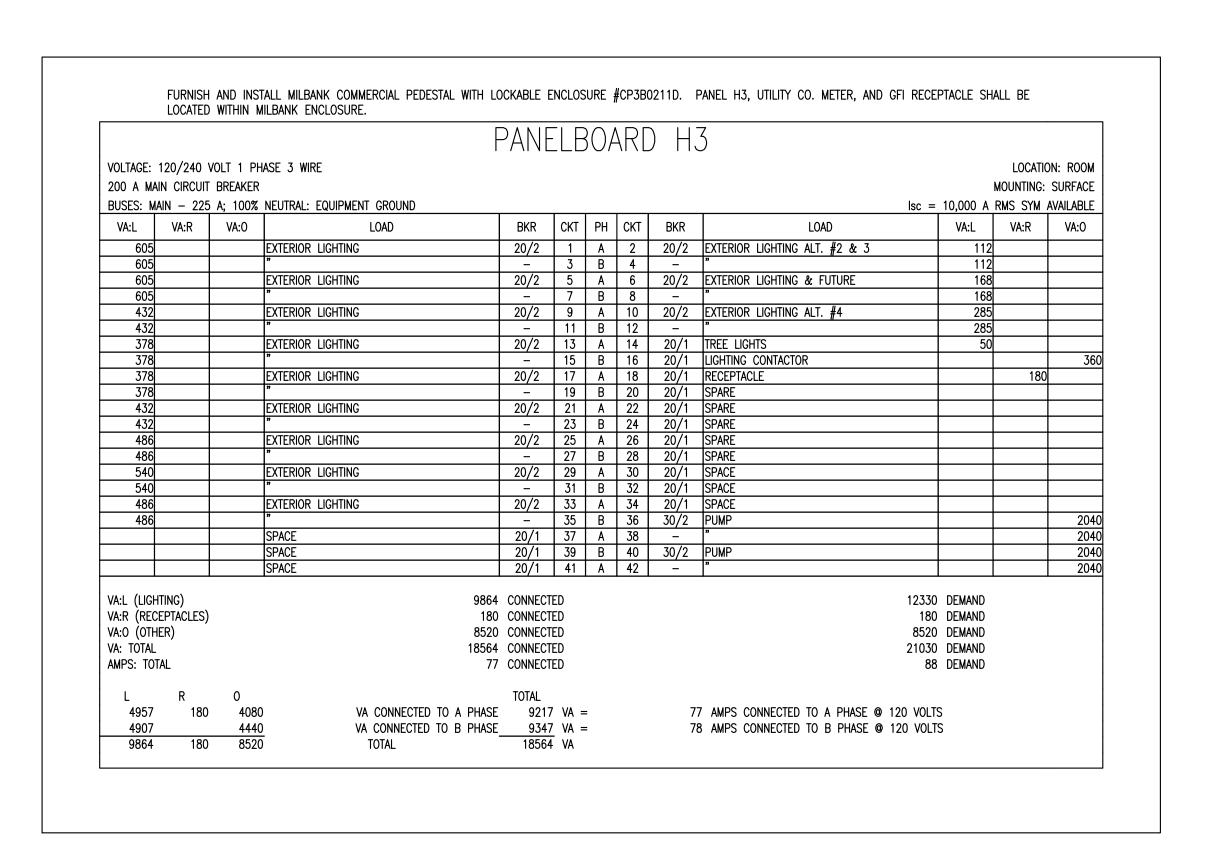
B. ELECTRICAL CONTRACTOR SHALL COORDINATE CONNECTION WITH UTILITY

ELECTRICAL RISER DIAGRAM

		LIGHTING FIXTURE SCHEE)ULE		
TYPE	DESCRIPTION	MANUFACTURER & MODEL #	LAMPS/TEMP/VA	VOLTAGE	REMARKS
SA	SINGLE HEAD LED AREA LIGHT WITH TYPE 3 DISTRIBUTION COLOR AS SELECTED BY ARCHITECT 30' POLE, 24" PEDESTAL	LSI #XALM 3 LED HO 40 ÜE XXX GENERAL STRUCTURES #CPA-2-8015-30-D1	LED 4000K 241	120/277	
SB	POST TOP AREA LIGHT WITH TYPE 3 DISTRIBUTION COLOR AS SELECTED BY ARCHITECT 20' POLE, 24" PEDESTAL	LSI #XCN3 PT 3 LED HO NW UE XXX GENERAL STRUCTURES #CPA-2-5015-20	LED 4000K 108	120/277	
SC	IN-GRADE FIXTURE NARROW SPOT DISTRIBUTION IP68 RATED	ERCO #35175.023	LED 4000K 8	120/277	
SD	LED BRICK STEP LIGHT HORIZONTAL LOUVER COLOR AS SELECTED BY ARCHITECT	CONTECH #STPB WW LH SS	LED 3000K 3	120/277	
SF	TREE FLOODLIGHT DIRECT BURIAL LED DRIVER	FOCUS INDUSTRIES #DL-22-SS-LED FOCUS INDUSTRIES #DB-12-LED10	LED 5	120	
SG	IN-GRADE FIXTURE NARROW SPOT DISTRIBUTION IP68 RATED	ERCO #35175.023	LED 4000K 8	120/277	

		FEEDER /	BRANCH CIRC	CUIT SCHEDUL	E
MARK	RACEWAY	PHASE CONDUCTORS	NEUTRAL CONDUCTORS	GROUND CONDUCTORS	REMARKS
P001 1000	4" 2"	 2#3/0	 1#3/0	 1#6	







3 ELECTRICAL LIGHTING FIXTURE SCHEDULE SCALE: N.T.S.

ELECTRICAL FEEDER/BRANCH CIRCUIT SCHEDULE SCALE: N.T.S.

ELECTRICAL PANEL SCHEDULE





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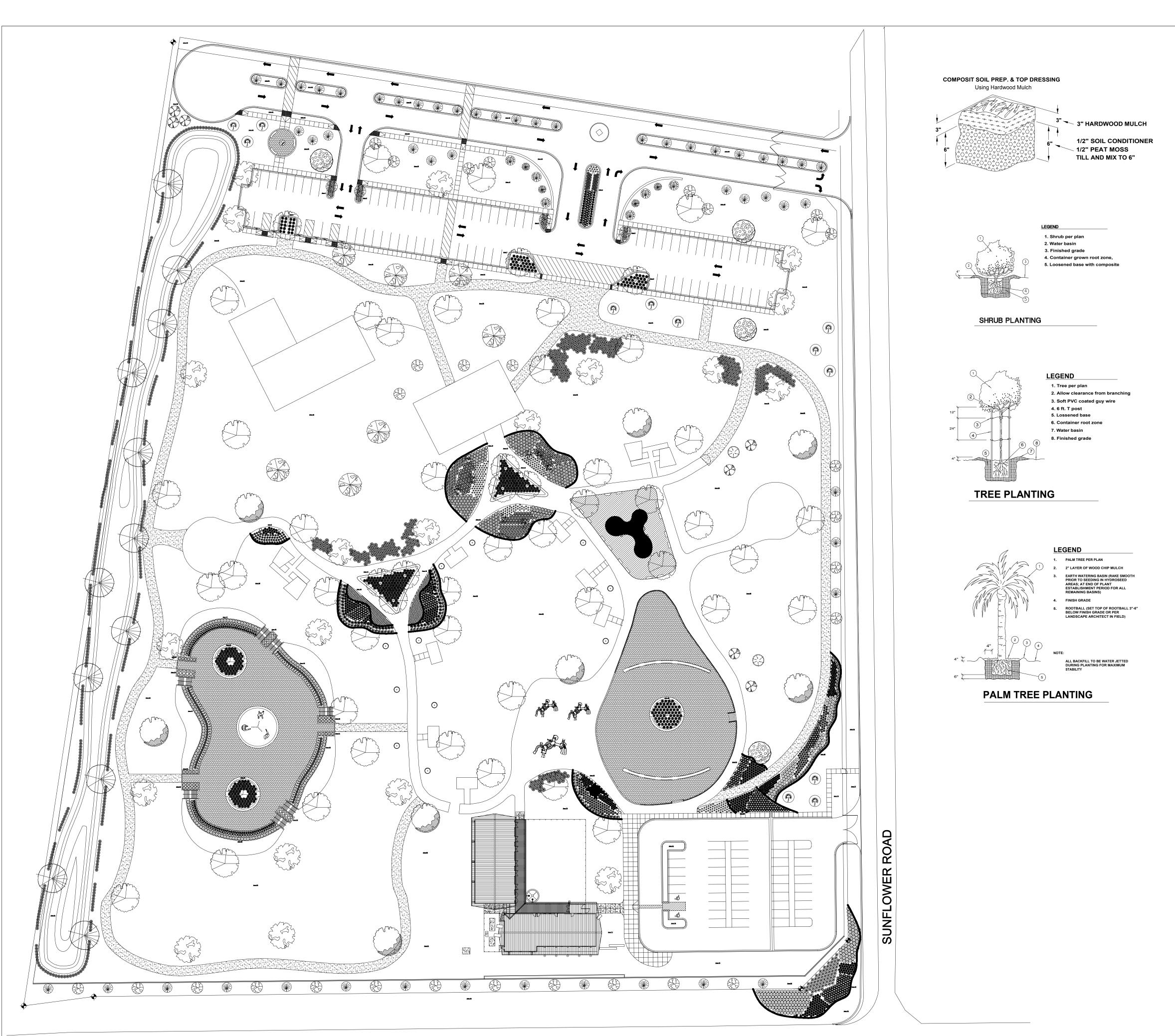
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HIDALGO COUNTY PRECINCT 4 MEMORIAL PARK PHASE 1

CORNER OF 107 & SUNFLOWER ROAD EDINBURG, TEXAS

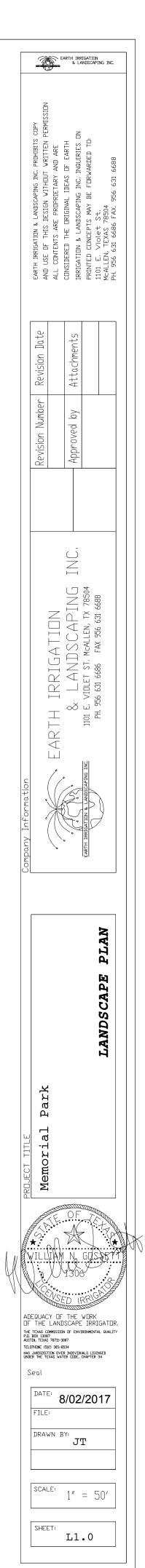




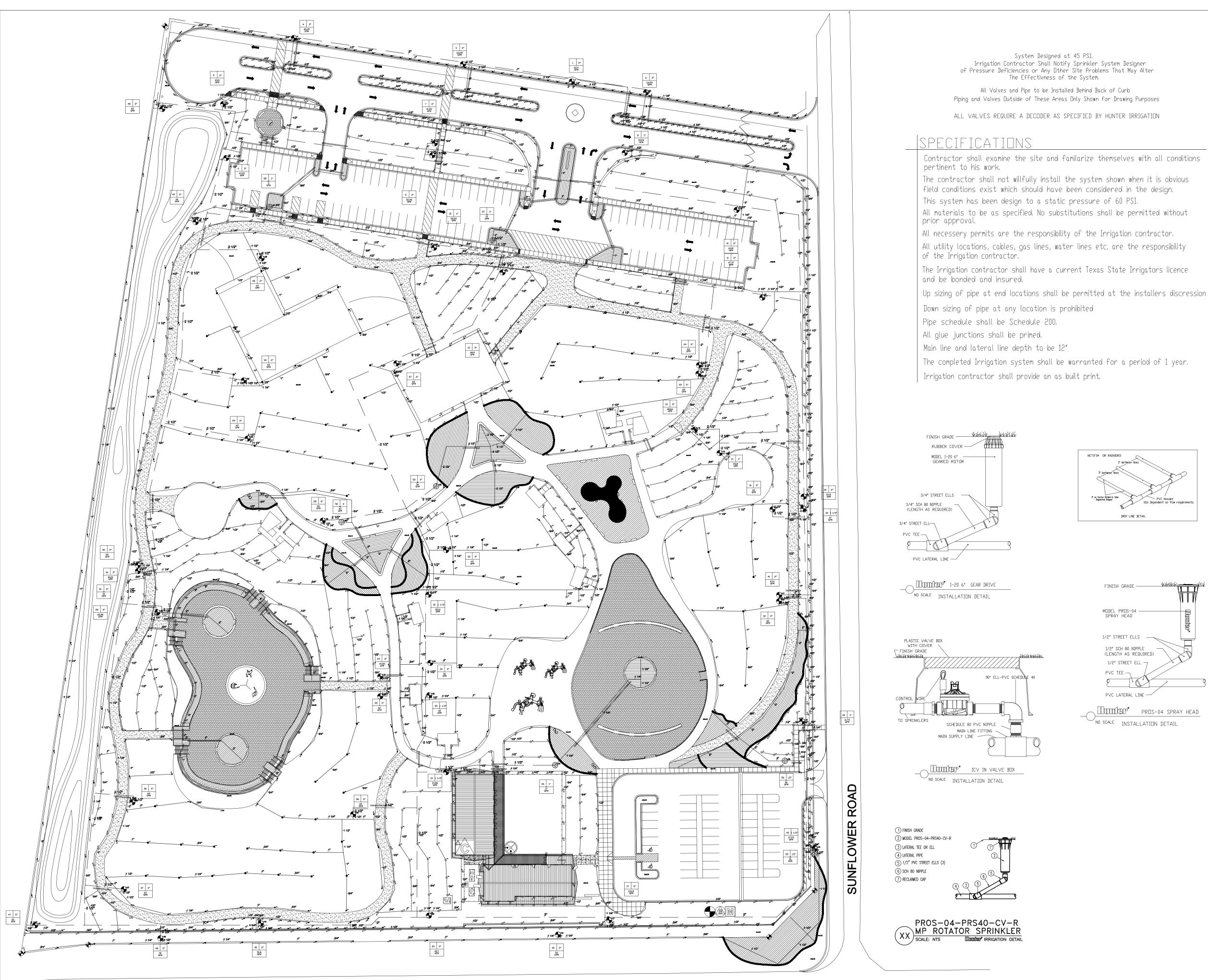


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Common Name	Plant Size
Persimmon, Common	2 to 2 1/2
Mesquite	3 to 3 1/2
Holly, Yaupon	2 to 2 1/2
Ash, Fan-Tex	3 1/2 to 4
Royal Poinciana	3 to 3 1/2
Cypress, Montezuma	3 to 3 1/2
Wild Olive	2 1/2 to 3
Elm, Cedar	3 to 3 1/2
Crape Myrtle	10 ft
Oak, Southern Live	3 to 3 1/2 Cal
Common Name	Plant Size
Queen Palm	10 ft Clear Trunk
Texas Sabal	6' Clear Trunk
Mexican Fan Palm	12' Clear Trunk
Florida Sabal Palm	12 ft Clear Trunk
Common Name	Plant Size
Firebush	3 Gallon
Sage, Green Cloud	3 Gallon
Plumbago	3 Gallon
Holly, Dwarf Yaupon	3 Gallon
Indian Hawthorn	3 Gallon
Bougainvillea, Dwarf	5 Gallon
Carissa, Green Carpet	3 Gallon
Rose, Knockout	5 Gallon
Common Name	Plant Size
Juniper 'Sea Green'	5 Gallon
Common Name	Plant Size
Bougainvillea	15 Gallon
Asiatic Jasmine	4" Pots
Liriope	1 Gallon
Bougainvillea	3 Gallon
Common Name	Plant Size
Salvia, Mealycup	1 Gallon
Sage, Autumn	1 Gallon
Lantana	1 Gallon
Bulbine	1 Gallon
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Hunter 7A-90 - PROS-04
Hunter 7H - PROS-04
Hunter 10H - PROS-04 Hunter PS 10-180 - PROS-04
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