GARDENIA WAREHOUSE 2205 GARDENIA DR. AUSTIN, TX

ABBREVIATIONS ANCHOR BOLT MAX. MB MAXIMUM AIR CONDITIONING ACCT ACCENT MARKER BOARD ACCUSTICAL MD ACOUSTICAL MD AMERICANS WITH DISABILITIES ACT MDF M.H. METAL DECK MEDIUM DENSITY FIBERBOARD ACOUST ADA ADJ A.F.F. MANHOLE MISC. MECH. MISCELLANEOUS ABOVE FINISHED FLOOR MECHANICAL ALUM. ALT. A.P.C. ALUMINUM ALTERNATE MIN. MIR MANUF /INIMUM ACRYLIC POLYMER COATING MIRROR APPROX. APPROXIMATE MANUFACTURER ARCHITECT/ARCHITECTURAL M.O. MTD. MASONRY OPENING ARCH ASPH. AUTO ASPHALT AUTOMATIC MOUNTED MTG MEETING AWI BD. AMERICAN WOODWORKING INST. MTL. METAL NEW BOARD (N) BITUMINOUS NORTH BITUM NOT APPLICABLE NA BLDG. BUILDING NECE NECESSARY BLK. BLOCK NOT IN CONTRACT BLKG. BLOCKING N.I.C BENCH MARK NOM NOMINAL BFAM NON-COM. NON-COMBUSTIBLE **BY OTHERS** NO. O.C. O.D. OFCI BOTTOM OF NUMBER ON CENTER BRG. BSMT CAB. CBB CP1. BEARING OUTSIDE DIAMETER BASEMENT OWNER FURNISHED CONTRACTOR INSTALLED CABINET O.H. OPG. OVER HEAD CEMENTITIOUS BACKER BOARD OPENING CARPET OPP. PT P.C. P.L. CHANNELS OPPOSITE CHNLS. CONTROL JOIN C.J. PAINT CENTERLINE PRECAST CONCRETE CEILING CLEAR CLG. CLR PROPERTY LINE PLATE C.I.P CAST IN PLACE PLG. PLUMBING C.M.U. CONCRETE MASONRY UNIT PLAM PLASTIC LAMINATE COL. CONC. CONT. CONSTR. COORD. COLUMN PLYWD PLYWOOD CONCRETE PNL. PR. PREFAB. CONTINUOUS PAIR ONSTRUCTION PREFABRICATED ORDINAT POR.T. PTN. PORCELAIN TILE CONSTRUCTION SPEC. INSTITUTE PARTITION CERAMIC TILE PVC POLYVINYL CHLORIDE CTB CTP CERAMIC TILE BASE QUARRY TILE CERAMIC TILE PAVERS RISER RADIUS C.U.H. CWT CABINET UNIT HEATER RAD. CERAMIC WALL TILE RB RCP R.D. RUBBER BASE DRYFR REFLECTED CEILING PLAN DOUBLE DBL. DEMO ROOF DRAIN DEMOLISH, DEMOLITION RE: REF REFER/REFERENCE DEPARTMENT REFRIGERATOR DRINKING FOUNTAIN REINF REO RESIL REINFORCED DIA. DIM DIAMETER REQUIRED DIMENSION DISP REV. RFG. RM. R.O. DISPENSE REVISION DOWN ROOFING DOOR ROOM DOWNSPOUT ROUGH OPENING DETAIL R.O.W. RIGHT OF WAY DW DISHWASHER RTU ROOF TOP UNIT DWG. DRAWING SUSPENDED ACOUSTICAL TILE S.A.T. FXISTING SOLID CORE EACH WAY SCHED SCHEDULE EACH S-CONC EXTERIOR INSULATION & FINISH SYSSDVI SEALED CONCRETE SOAP DISPENSER EXPANSION JOINT SEAL SECT SEALER ELEV/EL ELEVATION SECTION ELECTRICAL S.F. SHT. SQUARE FOOT/FEET ELEC. ENGR. ENGINEERE SHEET ENCLOSURE SHOWE EPOXY EPOXY PAIN SPEC. SPRL. SPECIFICATION(S) EQUAL EQUIPMENT SPANDREL EQUIP. STAINLESS STEEL EQUIV. EQUIVALENT EXISTING STATION EXPANSION SOUND TRANSMISSION CLASS EXPANSION JOINT EXP.JT. STANDARD EXHAUST STAINLESS STEEL S.STL EXTERIOR ELECTRIC WATER COOLER SHEATHING E.W.C. SHTG FBGL. FIBERGLASS STL. SUPPL STEEL FLOOR DRAIN FOUNDATION F.D SUSP. STOR. FDN. SUSPENDED FIRE EXTINGUISHER TORAGE F.E.C. F.E.C. FIRE EXTINGUISHER CABINET STR STRINGER STRUCTURAL STRUCTURE, STRUCTURAL FINISHED FLOOR STRL. STRUCT. FURNITURE, FIXTURES & EQUIP F.F.&E. FINISH GRADE FIRE HOSE CABINET F.G. F.H.C. SYMMETRICÁL SYM. SYST. SYSTEM SHEET VINYL FIN. FINISH(ED) FINISHED FLOOR FIN.FLR TREAD (IN PLAN) FIXT. FLD FLR. FLRG. FIXTURE TEMPERED (ON WINDOW) FIELD TACK BOARD FLOOR TILE BACKER BOARD TBD FLOORING O BE DETERMINED FACE OF T.&B. TOP AND BOTTOM FACE OF STUD F.O.S. TOP OF CURB F.R. FIRE RESISTIVE T.&G. **FONGUE & GROOVE** FR FRAME TELEPHONE FRMG FRAMING TEMP THK. EMPERED F.R.P. FIBER REINFORCED PANEL THICKNESS FOOT/FEET THLD THRESHOLD FTG. FUT. FOOTING FUTURE TOP OF BEAM г.о.в. GA. GAL. GALV TOP OF CONCRETE TOP OF FLOOR/FOOTING GALLON GALVANIZED TOP OF MASONRY GENERAL CONTRACTOR .O.STL TOP OF SLAB/STEEL GALVANIZED HOLLOW METAL GHM TUBE STEEL GLASS **TELEVISION** ĞLU LAM GLUE LAMINATED WOOD GLASS MESH GYPSUM UNIT GMGU GR. TYPE 'X' FIRE RATED GYPSUM BOARD GRADE UNIFORM BUILDING CODE UBC GYPSUM BOARD GYP. UNDERWRITERS LABORATORY U.L. UNFIN. HEIGHT UNFINISHED H.B. HOSE BIB UNLESS OTHERWISE NOTED U.O.N. VAR. H.C HOLLOW CORE VARIES HANDICAP, HANDICAPPED VCT VINYL COMPOSITION TILE HDBD HDR HARDBOARD VERT VEST VERTICAL HEADER VESTIBULE HDWR HARDWARE VIF VERIFY IN FIELD HOLLOW METAL V.W.C. VINYL WALL COVERING HORIZ. HORIZONTAL WASHER (IN PLAN) WIRE GLASS (ON WINDOW) HTR. HEATER HEATING, VENTILATING & AIR COND. W/ HVAC WOOD IBC INTERNATIONAL BUILDING CODE WDW WINDOW INSIDE DIAMETER WATER CLOSET W.C INSULATION INSUL WIDE FLANGE INTERIOR W.H WATER HEATER JAN JANITOR WROUGHT IRON W.I JOINT WITHOUT W/C JST JOIST WATERPROOF KNOCK DOWN ŴR WATER RESISTANT KIT KITCHEN LAMINATE(D) WSCI WAINSCOT LAN WEIGH LAVATORY LAV WELDED WIRE FABRIC W.W.F. LINEAR FOOT



		SYM	BC	DLS
, xxxx				_
(A)	WINDOV		_F.E.C SURFACE	SURFACE MOUNTED FIRE EXTINGUISHER CABINET
VESTIBULE	ROOM D	DESIGNATION		
W5	- WALL T	YPE INDICATOR	F.E.C. SEMI-R	SEMI-RECESSED FIRE EXTINGUISHER CABINET
√ 100A	DOOR II	NDICATOR		
26	ACCESS	SORY INDICATOR	F.E. BRACKET	WALL MOUNTED FIRE EXTINGUISHER BRACKET
Ц	CORNE	R GUARD		
VCT		LOOR MATERIAL	EME R	EMERGENCY LIGHTING
	TAIL LOCATION SHEET AWING TITLE PLAN 1/2" = 1'-0 AWING SCALE	 DRAWING 0" TITLE		NTERIOR ELEVATION REFERENCE
A1.1	TAIL NUMBER	SECTION REFERENCE	A1.1 1 SHEE	EXTERIOR ELEVATION REFERENCE DETAIL REFERENCE
 RFI		REVISION INDICATOR	13 A1.1 S	DETAIL NUMBER
	M	IATE	RI	\LS
		EARTH/COMPACT FILL		
	S	GRAVEL/POROUS FILL		
	44	CONCRETE (PRECAST	OR CAST IN F	PLACE)
	\bigotimes	SPRAY INSULATION		
		STEEL		
		ALUMINUM		
		CONTINUOUS WOOD E	BLOCKING	_
		NON-CONTINUOUS W	OOD BLOCKIN	G
	⊞	RIGID INSULATION		
		CARPET		
<u> </u>	22 22	WOOD GLULAM MASONRY	REFER TO INSTITUTE, TO PROJECT S	CONSTRUCTION SPECIFICATION UNIFORM DRAWING SYSTEM AND SPECIFICATIONS FOR REFERENCE

GENERAL NOTES

GENERAL REQUIREMENTS

1. ATTENTION ALL USERS OF THESE DRAWINGS, GENERAL CONTRACTORS, SUB-CONTRACTORS. MANUFACTURERS, SUPPLIERS: CAREFULLY AND THOROUGHLY REVIEW THESE GENERAL NOTES. IT IS YOUR RESPONSIBILITY TO KNOW AND ADHERE TO THESE REQUIREMENTS.

2. THE DRAWINGS AND SPECIFICATIONS ARE SEPARATED INTO DISCIPLINES FOR THE CONVENIENCE OF THE ARCHITECT AND THE CONTRACTOR. THE SEPARATIONS USED HEREIN ARE USED ONLY FOR THE PURPOSES OF CONVENIENCE AND REFERENCE. AND IN NO WAY DO THEY DEFINE OR LIMIT THE SCOPE OR INTENT OF ANY PART OF THE DRAWINGS, OR OF THE DRAWINGS AND SPECIFICATIONS AS A WHOLE. THE FACT THAT THE DRAWINGS ARE SEPARATED IN NO WAY SUGGESTS THAT THE WORK IS NOT TO BE CONSTRUCTED AS A COMPLETE, INTEGRATED AND UNIFIED WHOLE.

EVERY EFFORT HAS BEEN MADE TO MAKE THESE DOCUMENTS CONCISE AND COORDINATED, TO DEFINE WORK IN THE MOST LOGICAL PLACE AND TO ELIMINATE REDUNDANCY. DO NOT PRESUME THAT YOUR SCOPE OF WORK IS SINGULARLY DEFINED. YOUR SCOPE OF WORK IS DEFINED THROUGHOUT THE ENTIRE SET OF DRAWINGS AND SPECIFICATIONS AND IS NOT CONTAINED IN JUST ONE SERIES OF DRAWINGS OR DIVISION OF SPECIFICATIONS. YOU MUST REVIEW THE ENTIRE SET OF CONTRACT DOCUMENTS TO DETERMINE YOUR SCOPE OF WORK.

4. THE DRAWINGS AND SPECIFICATIONS, INCLUDING DRAWINGS PREPARED BY SPECIFIC ENGINEERING DISCIPLINES (SUCH AS CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, ETC.) ARE COMPLEMENTARY; ITEMS SHOWN IN ANY ONE LOCATION IN THE DRAWINGS SHALL BE CONSIDERED TO BE REQUIREMENTS OF THE CONTRACT FOR CONSTRUCTION IN THE EVENT OF AN INCONSISTENCY BETWEEN THE DRAWINGS AND SPECIFICATIONS, OR WITHIN EITHER DOCUMENT. THE CONTRACTOR SHALL SEEK CLARIFICATION OR INTERPRETATION FROM THE ARCHITECT PRIOR TO BIDDING. WHERE INCONSISTENCIES ARE NOT CLARIFIED PRIOR TO BIDDING. AND WHERE THE ACTUAL SOLUTION OR INTENT CANNOT BE REASONABLY INFERRED, THE CONTRACTOR SHALL PROVIDE THE BETTER QUALITY OR GREATER QUANTITY OF WORK.

5. MECHANICAL AND ELECTRICAL DRAWINGS SHOW INFORMATION IN A DIAGRAMMATIC FASHION WITHOUT DIMENSIONING. THE GENERAL CONTRACTOR IS TO COORDINATE THE LOCATIONS OF ALL M.E. EQUIPMENT WITH RESPECT TO THE ARCHITECTURAL AND STRUCTURAL DETAILING OF SHAFTS, CHASES, ECT..

6. THE CONTRACTOR AND ALL SUB-CONTRACTORS SHALL VISIT THE SITE AND BECOM FAMILIAR WITH SITE CONDITIONS AS THEY MAY AFFECT CARRYING OUT THE WORK AS DESCRIBED IN THESE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL INVESTIGATE VERIFY, AND BE RESPONSIBLE FOR ALL CONDITIONS OF THE PROJECT, AND NOTIFY THE ARCHITECT OF ANY CONDITIONS THAT REQUIRE MODIFICATION BEFORE PROCEEDING WITH THE WORK.

7. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITY LINES. LOCATIONS SHOWN ARE APPROXIMATE. REPAIR ALL DAMAGE TO UTILITY LINES CAUSED BY CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.

8. ALL PERSONS DIRECTLY OR INDIRECTLY ASSOCIATED WITH THE PROJECT SHALL BE FAMILIAR WITH THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT, AND IMPLEMENT THOSE RULES AS THEY APPLY TO THIS PROJECT.

9. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, EQUIPMENT, LABOR, AND SERVICES NECESSARY TO COMPLETE THE WORK.

10. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH THE BUILDING CODE & LOCAL AMENDMENTS. RE: CODE EGRESS AND ACCESSIBILITY SHEET.

11. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL TRADES AND THE PREVENTION OF CONFLICT BETWEEN ALL TRADES. DRAWINGS AND DIMENSIONS

1. DO NOT SCALE THE DRAWINGS.

2. ALL DIMENSIONS ON PLANS ARE TO FACE OF BLOCK OR TO FACE OF STUD UNLESS NOTED OTHERWISE.

3. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ARCHITECT IMMEDIATELY SHOULD ANY DISCREPANCIES BE FOUND IN THE DRAWINGS AND SPECIFICATIONS.

4. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL FIELD CONDITIONS AND DIMENSIONS AS THEY RELATE TO THIS PROJECT. SHOULD DISCREPANCIES EXIST BETWEEN THE WORK INDICATED AND ACTUAL FIELD CONDITIONS NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

5. ACTUAL CONTRACT LIMITS ARE TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE OWNER BEFORE ACTUAL CONSTRUCTION WORK BEGINS. ANY INDICATION OF PROJECT LIMITS OR LINES OF DEMARCATION ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR, AND ARE NOT TO BE TAKEN LITERALLY.

6. SEE GENERAL NOTES ON ALL 'A' SERIES DRAWINGS FOR INFORMATION RELATED TO PLANS AND DETAILS ON THOSE SHEETS.

7. THE TERM "ALIGN" REFERS TO LOCATING DIFFERENT COMPONENTS OF CONSTRUCTION TO PROVIDE A FLUSH FINISH SURFACE.

8. CONTRACTORS AND ALL SUB-CONTRACTORS SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION AND/OR ORDERING OF MATERIALS.

9. USE OF THE WORD "VERIFY" POINTS OUT A SITUATION WHICH MUST BE CONFIRMED PRIOR TO PROCEEDING WITH THE WORK, FABRICATION OF EQUIPMENT, OR ORDERING MATERIAL. NOTIFY THE ARCHITECT OF ANY DISCREPANCY.

10. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL CEILING FIXTURES. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR COMPLETE CONSTRUCTION REQUIREMENTS.

11. ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS SHOW WHERE EXPOSED DUCTWORK IS TO BE INSTALLED AT A SPECIFIC ELEVATION IN A CONTROLLED PATTERN. THE CONTRACTOR MUST RELY ON ALL OF THESE DISCIPLINES TO COMPLETE THE WORK AND SHOULD NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.

12. THE GENERAL CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES INSTALLING THEIR RESPECTIVE EQUIPMENT IN THE CEILING PLENUMS. MECHANICAL, ELECTRICAL, STRUCTURAL, AND FIRE SPRINKLER SYSTEMS ALL SHARE THIS SAME SPACE. EACH SUB CONTRACTOR IS TO REVIEW THE REQUIREMENTS OF THEIR WORK WITH THE AWARENESS OF THE OTHER TRADES THAT NEED TO SHARE THESE SPACES AND MUST NOT ASSUME THAT THEIR INSTALLATION HAS BEEN CONSIDERED IN THE DESIGN AND SHOP DRAWINGS OF THE OTHER TRADES.



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CONSTRUCTION NOTES

1 DRAWINGS ARE PREPARED USING DIMENSIONS AND PRODUCT CONFIGURATIONS OF DETAILS OF SPECIFIC MANUFACTURERS (TYPICALLY THE FIRST MANUFACTURER LISTED UNDER "ACCEPTABLE MANUFACTURERS" IN THE SPECIFICATIONS). DIMENSIONS AND DETAILS FOR SPECIFIC PRODUCTS MAY CHANGE BEFORE THEY ARE ACTUALLY INCORPORATED INTO THE WORK, AND PRODUCTS BY OTHER MANUFACTURERS MAY ALSO BE ACCEPTABLE. THEREFORE, ACTUAL INSTALLATION DETAILS AND DIMENSIONS MAY DIFFER FROM THOSE SHOWN. CONTRACTOR SHALL VERIFY INSTALLATION REQUIREMENTS FOR ALL PRODUCTS TO BE INCORPORATED IN THE WORK (INCLUDING PARTITION THICKNESSES FOR RECESSED OR SEMI-RECESSED PRODUCTS), AND IS RESPONSIBLE FOR ACCOMMODATING AND COORDINATING CHANGES TO OTHER MATERIALS OR PRODUCTS THAT ARE NECESSARY BECAUSE OF THESE DIFFERENCES

2. PROVIDE & INSTALL SOLID BLOCKING WITHIN PARTITIONS AT ALL LOCATIONS WHERE ITEMS WILL BE MOUNTED ON PARTITIONS INCLUDING, BUT NOT LIMITED TO: ACCESSORIES CASEWORK TRIM. FLASHING, WALL MOUNTED EQUIPMENT, TACK/BULLETIN/MARKER BOARDS, ETC.

- 3. ALL WOOD BLOCKING SHALL BE FIRE-RETARDANT TREATED (F.R.T.) WOOD.
- 4. MAINTAIN RATING AT ALL BLOCKOUTS FOR ALL FIRE EXTINGUISHERS AND TOILET ACCESSORIES THAT ARE TO BE INSTALLED IN RATED WALLS.
- 5. PROVIDE & INSTALL 24" X 24" ACCESS PANELS IN PARTITIONS WHERE REQUIRED FOR MECHANICAL EQUIPMENT EXCEPT WHERE SIZES ARE OTHERWISE NOTED.
- 6. PROVIDE & INSTALL GYPSUM BOARD CONTROL JOINTS IN PARTITIONS AND CEILINGS AT 30'-0" MAX. SPACING. COORDINATE TO MEET FIRE RESISTIVE RATINGS OF THE ASSEMBLY. FIRESTOP JOINTS AT RATED PARTITIONS. SUB-CONTRACTOR MUST PROVIDE A SUBMITTAI FOR JOINT MATERIAL
- 7. CAULK ALL JOINTS OR CRACKS WHICH OCCUR WHERE DISSIMILAR MATERIALS INTERSECT PERPENDICULAR TO EACH OTHER AND WHERE THE INTERSECTION IS EXPOSED TO VIEW, UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
- 8. FIREBLOCK ALL CONCEALED SPACES, SOFFITS, SHAFTS, CHASES AND CEILING AREAS PER REQUIREMENTS OF THE 2015 IBC AND THE LOCAL JURISDICTION'S AMENDMENTS.
- 9. PROVIDE & INSTALL SLIP JOINT CONNECTIONS AT PARTITIONS THAT EXTEND TO STRUCTURE ABOVE. PROVIDE BRACING ABOVE AS REQUIRED. REFER TO STRUCTURAL DRAWINGS AND TO SLIP JOINT DETAILS.
- 10. IT IS THE INTENT OF THE DESIGN THAT ALL METAL STUD PARTITIONS BE OF SUFFICIENT WIDTH TO ADEQUATELY ENCLOSE PIPING, CONDUITS, AND RECESSED EQUIPMENT NOTIFY THE ARCHITECT OF ANY DISCREPANCIES WITH THIS INTENT.
- 11. ALL VERTICAL AND HORIZONTAL PIPES, CONDUITS, DUCTS, ETC. IN FINISHED ROOMS OR AREAS THROUGHOUT THE BUILDING SHALL BE FURRED IN TO MATCH THE ROOM FINISH, UNLESS OTHERWISE NOTED.
- 12. WHERE MECHANICAL WORK PENETRATES ANY COMPONENT OF A FIRE-RATED ASSEMBLY, PROVIDE & INSTALL THE APPROPRIATE FIRE AND/OR SMOKE DAMPERS, IF IT IS NOT CLEAR WHETHER DUCTWORK PENETRATES A PORTION OF THE RATED ASSEMBL OBTAIN CLARIFICATION FROM THE ARCHITECT PRIOR TO BIDDING. SEAL AROUND ALL PENETRATIONS THROUGH PROPOSED FIRE RATED PARTITIONS. PROVIDE UL APPROVED FIRESTOP SYSTEM TO MEET REQUIRED RATING.
- 13. THE FIRE ALARM SYSTEM WILL BE DESIGNED BY THE INSTALLING SUB-CONTRACTOR. THE GENERAL CONTRACTOR SHALL COORDINATE LAYOUT, CLEARANCES, AND LOCATION OF SYSTEM WITH THE STRUCTURE, MECHANICAL DUCTWORK, ELECTRICAL LIGHTING, DRAINAGE PIPING, AND THE ARCHITECTURAL REFLECTED CEILING PLANS. THE ALARM DESIGN MUST BE COORDINATED WITH THE PROVISIONS OF ALL ENGINEERING AND ARCHITECTURAL DOCUMENTS AND SHOULD NOT RELY SOLELY ON ONE SERIES OF DRAWINGS OR ONE DISCIPLINE. CONTRACTOR SHALL ADJUST OR ADD FIRE ALARM DEVICES TO ACCOMMODATE PARTITION LAYOUT. ALARM SPACING AND PLACEMENT SHALL MEET CODE REQUIREMENTS. SUB-CONTRACTOR SHALL COORDINATE ANY ALARM DEVICE LAYOUT CONFLICTS WITH THE ARCHITECT.
- 14. INTERIOR SIGNAGE TO BE DESIGN BUILD AND COMPLY WITH THE SFO, ANSI 117.1, TAS, AND ADA.



<u>GROUP S-2</u> STORIES ALLOWED = 3

THIS CODE.

REQUIRED = YES PROVIDED = YES

OR LESS OCCUPANTS) PROVIDED = NO

REQUIRED =1

SERVICE SINK REQUIRED = 1



NOTE: ALL DOORS IN ALCOVES MUST COMPLY WITH THE CLEARANCES NOTED FOR FRONT APPROACHES. SEE SECTION 404.2.4.3 OF THE 2012 TEXAS ACCESSIBILITY STANDARDS

FOR ADDITIONAL INFORMATION ON DOORS IN RECESSES. SEE SECTION 404.2.4.1 OF THE 2012 TEXAS ACCESSIBILITY STANDARDS FOR ADDITIONAL INFORMATION ON DOORS

403 WALKING SURFACES4 1/4" = 1'-0"



 $3 \frac{404 \text{ DOORS, DOORWAYS, AND GATES4}}{1/4" = 1'-0"}$

DOOR THRESHOLD DETAIL

_____]

(*) 1'-0" ***

PULL SIDE. FRONT APPROACH

PUSH SIDE. FRONT

APPROACH

(*)W/ BOTH LATCH & CLOSURE

-NOTE: THERE SHALL BE NO

PROJECTIONS INTO THE REQUIRED

PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34" AND

80" ABOVE THE FLOOR SHALL

NOT EXCEED 4"

2'-8" CLEAR

SWING DOOR CLEARANCES

CLEAR OPENING WIDTH LOWER THAN



(EXCEPTION)



4'-0"

2'-0"

PULL SIDE.

LATCH SIDE APPROACH

(*)W/ CLOSURE

PUSH SIDE.

LATCH SIDE APPROACH (*)W/

CLOSURE

2'-0"

-'t____

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CLEARANCES FOR DOORS IN A SERIES

PULL SIDE.

MANEUVERING CLEARANCES AT DOORS - PULL SIDE

HINGE SIDE APPROACH

1'-10" |

PUSH SIDE. HINGE SIDE

APPROACH (*)W/ BOTH LATCH

AND CLOSURE

MANEUVERING CLEARANCES AT DOORS - PULL SIDE

3'-0" (1)

3'-6" (2)

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4 5

180 DEGREE TURN

SEE SECTION 403 OF THE 2012 TEXAS ACCESSIBILITY STANDARDS FOR ADDITIONAL INFORMATION



403 OF THE 2012 TEXAS ACCESSIBILITY

















2 E1 - EXT. WALL - METAL 1 1/2" = 1'-0"





GENERAL ELECTRICAL NOTES

- 1. ALL ELECTRICAL WORK SHALL COMPLY WITH 2020 NATIONAL ELECTRIC CODE (NEC), 2021 ENERGY CODE IECC, AND CITY OF AUSTIN ELECTRICAL AMENDMENTS.
- 2. ALL ELECTRIC WORK SHALL BE IN STRICT ACCORDANCE WITH MUNICIPAL AND STATE CODES, LAWS AND REGULATIONS, RULES OF NEC, OSHA, AND/OR OTHER AUTHORITIES THAT MAY HAVE JURISDICTION PERTAINING TO THE WORK.
- 3. ALL NECESSARY PERMIT, LICENSES, CERTIFICATES, TESTS, ETC. SHALL BE PROCURED AND PAID FOR BY THE CONTRACTOR.
- 4. IN CASES OF A DIFFERENCE BETWEEN THE MINIMUM REQUIREMENTS OF THE VARIOUS LAWS, CODES, AUTHORITIES, AND THE DOCUMENTS; THE WORK SHALL EXCEED THE LESSER REQUIREMENTS WHILE MEETING THE GREATER OR MORE STRINGENT REQUIREMENTS.
- 5. CONTRACTOR SHALL INDICATE ALL CHANGES FROM THE ORIGINAL PLANS MADE DURING THE INSTALLATION OF HIS WORK IN RED INK ON TWO BLUELINE PRINTS.
- 6. THE CONTRACTOR SHALL PROVIDE A TYPED PANEL BOARD DIRECTORY.
- 7. UPON COMPLETION OF HIS WORK, THE ELECTRICAL CONTRACTOR SHALL CLEAN ALL ELECTRICAL EQUIPMENT.
- 8. UPON COMPLETION OF THE WORK, ALL PARTS OF THE ELECTRICAL INSTALLATION SHALL BE TESTED AND PROVED TO BE FREE OF UNWANTED GROUNDS AND OTHER DEFECTS. FINAL TESTS SHALL BE ACCOMPLISHED BY USE OF A MEGGER.
- 9. ALL WIRING SHALL BE COPPER CONDUCTOR WITH TYPE THHN INSULATION.
- 10. MAKE ALL PENETRATIONS THROUGH WALLS AT 90 DEGREE ANGLES. SEAL ALL PENETRATIONS AT FIRE AND SMOKE PARTITIONS WITH FIRE SAFING MATERIAL. SEAL ALL PENETRATIONS AT SOUND WALLS WITH SOUND-PROOFING MATERIAL.
- 11. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF HVAC AND PLUMBING EQUIPMENT.
- 12. COORDINATE WITH MECHANICAL AND PLUMBING DEVICES FOR CONDUIT ROUTING AND ELECTRICAL EQUIPMENT LOCATIONS.
- 13. CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS FOR ACCURACY, AND CONFIRMING THAT THE WORK IS BUILDABLE AS SHOWN AND MEETS ALL APPLICABLE CODES BEFORE PROCEEDING WITH CONSTRUCTION. IF THERE ARE ANY QUESTIONS REGARDING THESE OR OTHER COORDINATION ISSUES, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH THE WORK IN QUESTION OR RELATED WORK.
- 14. ALL MATERIALS FURNISHED UNDER THIS CONTRACT SHALL BE NEW.
- 15. ALL WORK SHALL BE GUARANTEED AGAINST DEFECTIVE MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF SUBSTANTIAL COMPLETION OR ACCEPTANCE OF THE WORK. THE CONTRACTOR SHALL REPAIR OR REPLACE, AT HIS OWN EXPENSE WHEN ORDERED TO DO SO, ALL WORK THAT MAY DEVELOP DEFECTS IN MATERIAL OR WORKMANSHIP WITHIN SAID PERIOD OF TIME. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED RECOMMENDATIONS FOR SERVICE INTENDED, AS INTERPRETED BY THE ENGINEER. THE INSTALLATION OF ALL EQUIPMENT SHALL BE MADE BY EXPERIENCED CRAFTSMAN IN A NEAT, WORKMANLIKE MANNER. ALL MATERIALS, TOOLS, COSTS, AND SERVICES NECESSARY TO COMPLETELY INSTALL ALL ELECTRICAL WORK SHALL BE PROVIDED BY THE CONTRACTOR.
- 16. LOCATION OF ALL CEILING MOUNTED ITEMS ON THE ARCHITECTURAL DRAWINGS HAVE PRECEDENCE OVER MEP DRAWINGS. ARCHITECT SHALL BE NOTIFIED OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
- 17. IT IS THE INTENT AND MEANING OF THE CONTRACT DOCUMENTS THAT THE CONTRACTOR SHALL PROVIDE AN ELECTRICAL INSTALLATION THAT IS COMPLETE. ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLY INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFICALLY CALLED OUT OR SHOWN ON THE CONSTRUCTION DOCUMENTS SHALL BE PROVIDED.
- 18. CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGES, BREAKAGE, COLLAPSE, AND MISALIGNMENT ACCORDING TO APPLICABLE CODES, STANDARDS, AND GOOD CONSTRUCTION PRACTICES. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO PROTECT ALL EXISTING OPERATIONS AND PROPERTY ADJACENT WITH WHICH WORK COMES IN CONTACT, OR OVER OR UNDER WHICH HE MAY TRANSPORT, HOIST, OR MOVE MATERIALS, EQUIPMENT, DEBRIS, ETC., AND SHALL REPAIR SATISFACTORILY ALL DAMAGE CAUSED BY HIM DURING CONSTRUCTION.
- 19. COORDINATE WITH THE ARCHITECT FOR EXACT LIGHTING FIXTURE AND OUTLET LOCATIONS. WHEN INSTRUCTED BY THE ARCHITECT, THE CONTRACTOR SHALL RELOCATE OUTLETS LOCATED AT UNACCEPTABLE LOCATIONS AT NO ADDITIONAL COST IF NEW LOCATIONS ARE LESS THAN TWO-FEET.
- 20. CONTRACTOR SHALL USE MULTI-GANG BOXES IN ALL POSSIBLE LOCATIONS.
- 21. ABOVE COUNTER OUTLETS SHALL BE MOUNTED.
- 22. PROVIDE EXPANSION FITTINGS ON ALL CONDUIT CROSSING EXPANSION JOINTS.

POWER PLAN NOTES

- A. FURNISH AND INSTALL BOXES, CONDUIT AND CONTROL CABLE FOR ALL CONTROLS AS INDICATED ON MECHANICAL DRAWINGS. VERIFY REQUIRED LOCATIONS WITH MECHANICAL CONTRACTOR.
- B. ALL DISCONNECTS AND CONTROLS FOR MECHANICAL EQUIPMENT
 WILL BE FURNISHED WITH MECHANICAL EQUIPMENT BY MECHANICAL
 CONTRACTOR UNLESS SPECIFIED OTHERWISE ON DRAWINGS.
- C. FINAL EQUIPMENT CONNECTIONS LESS THAN 110 VOLTS SHALL BE PERFORMED BY MECHANICAL CONTRACTOR. MAKE ALL OTHER REQUIRED EQUIPMENT CONNECTIONS.
- D. COORDINATE ALL EQUIPMENT LOCATIONS AND REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- E. ELECTRICAL CONTRACTOR SHALL VERIFY PLACEMENT OF DATA/PHONE OUTLETS AND DUPLEX/QUADPLEX RECEPTACLES WITH OWNER PRIOR TO CONSTRUCTION.
- F. ELECTRICAL CONTRACTOR SHALL UTILIZE A SPARE CIRCUIT AS NECESSARY FOR POWER TO PHONE BOARD.
- G. ELECTRICAL CONTRACTOR SHALL VERIFY TYPE & SIZE OF SERVICE AND FEEDERS TO BUILDING & REPORT RESULTS TO ENGINEER.
- H. ELECTRICAL CONTRACTOR SHALL INTEGRATE ANY FIRE & SMOKE DETECTION EQUIPMENT INTO HARD-WIRED SECURITY SYSTEM WITH MOTION SENSOR PER OWNER.
- I. ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT RECEPTACLES, GFCI RECEPTACLES & WP GFCI RECEPTACLES PER PANEL SCHEDULES AS SHOWN ON E-2.
- J. DISCONNECTING MEANS MUST BE CAPABLE OF BEING LOCKED IN THE OPEN
 - POSITION. THE DEVICE MUST HAVE PROVISIONS FOR PLACEMENT OF A LOCK
 ON IT TO SECURE THE DEVICE IN THE OFF POSITION. THE LOCK-OUT DEVICE
 MUST BE PART OF OF THE DISCONNECT ASSEMBLY AND MUST REMAIN IN
 PLACE AFTER THE PADLOCK IS REMOVED, WHETHER IT IS A FUSED DISCONNECT
 SWITCH, A SINGLE CIRCUIT BREAKER, OR A CIRCUIT BREAKER IN A PANELBOARD.

LIGHTING PLAN NOTES

- A. LIGHTING LOCATIONS ARE A SUGGESTION TO THE CONTRACTOR. LOCATIONS MAY CHANGE SLIGHTLY ON-SITE DUE TO PLACEMENT OF AIR DEVICES.
- B. PRIOR TO INSTALLING BATHROOM LIGHT FIXTURES, ELECTRICAL
 CONTRACTOR SHALL VERIFY DIFFUSER AND BATHROOM FAN LOCATION
 WITH MECHANICAL CONTRACTOR.
- C. EMERGENCY LIGHTS AND EXIT SIGNS TO BE POWERED CONTINUOUSLY. EMERGENCY BACKUP BALLASTS SHALL BE USED FOR ALL EMERGENCY LIGHTS PER THE LIGHTING FIXTURE SCHEDULE.
- D. ANY OUTSIDE LIGHT SWITCHES TO BE PLACED BY ELECTRICAL CONTRACTOR.
- E. ALL OUTSIDE LIGHT PLACEMENT TO BE VERIFIED BY ELECTRICAL CONTRACTOR.
- F. ELECTRICAL CONTRACTOR SHALL PROVIDE FROG EYE ON MOTION SENSOR FOR PARKING AREA.
- G. EMERGENCY LIGHTS AND EXIT SIGNS TO BE CIRCUITED TO L-1 AND SHALL BE PROVIDED WITH LOCKING DEVICES.

	SYMBOL SCHEDULE	
NOTE:		
A. ALL SYN	MBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS	
SYMBOL	DESCRIPTION	REMARKS
◄	HOMERUN (REFER TO PANEL SCHEDULES FOR CONDUIT/WIRING)	
OT		
	CIRCUIT INDICATORS (HOT. NEUTRAL, GROUND, SWITCHLEG)	
(P)	PHOTOCELL	
J	JUNCTION BOX	
	JUNCTION BOX, FLOOR MOUNTED FLUSH	
J	JUNCTION BOX, FLOOR MOUNTED PEDESTAL	
нĴ	JUNCTION BOX, WALL MOUNTED	
\$ ^M	MANUAL STARTER WITH THERMAL TRIP	
L	DISCONNECT SWITCH, REFER TO DISCONNECT SCHEDULE	
	STARTER	
42	COMBINATION STARTER/DISCONNECT SWITCH, REFER TO SCHEDULE	
	POWER AND/OR LIGHTING PANELBOARD, REFER TO PANELBOARD SCHEDULE	
	SWITCHBOARD, REFER TO SWITCHBOARD SCHEDULE	
W		
	COMBINATION TELEPHONE/DATA OUTLET. 16"AFF UON	
	COMBINATION TELEPHONE/DATA OUTLET, FLOOR MOUNTED FLUSH	
\diamond	LAN SYSTEM OUTLET, 16"AFF UON	
\triangleleft	DATA OUTLET, 16" AFF UON	
\Box	DATA OUTLET, FLOOR MOUNTED PEDESTAL	
	DATA OUTLET, FLOOR MOUNTED FLUSH	
	TELEPHONE EQUIPMENT BOARD	
\rightarrow	SINGLE RECEPTACLE 20A/120V 16" AFF UON	
<u> </u>	DUPLEX RECEPTACLE 20A/120V 16"AFF UON	
	DUPLEX RECEPTACLE 20A/120V 16" AFF UON WITH GROUND FAULT INTERRUPTER	
	DUPLEX RECEPTACLE 20A/120V 16" AFF UON WITH ISOLATED/INSULATED GROUND	
e e	SPECIAL PURPOSE RECEPTACLE 16" AFF SEE PLANS FOR DETAILS	
<u> </u>	DUPLEX RECEPTACLE 20A/120V MOUNTED HORIZONTALLY 48" AFF UON	
WP 🗲	WEATHER-PROOF DUPLEX RECEPTACLE 20A/120V 18"AFF UON	
sg 🖵	DUPLEX RECEPTACLE W/ SURGE SUPPRESSION 20A/120V 16" AFF UON	
\bigcirc	DUPLEX RECEPTACLE, FLOOR MOUNTED FLUSH	
€ _F	DUPLEX RECEPTACLE, FLOOR MOUNTED PEDESTAL	
	FOURPLEX RECEPTACLE, FLOOR MOUNTED PEDESTAL	
	FOURPLEX RECEPTACLE, FLOOR MOUNTED FLUSH	
€	FOURPLEX RECEPTACLE, CEILING MOUNTED	
€c	DUPLEX RECEPTACLE, CEILING MOUNTED	
€ _R	DUPLEX RECEPTACLE ON ROOF	
\$	SINGLE POLE SWITCH 20A, 48"AFF UON	
\$ ³	THREE-WAY SWITCH 20A, 48"AFF UON	
\$ ⁴	FOUR-WAY SWITCH 20A, 48"AFF UON	
\$ ^ĸ	SINGLE POLE KEY OPERATED SWITCH 20A, 48"AFF UON	
\$ ^{2K}	DOUBLE POLE KEY OPERATED SWITCH 20A, 48" AFF UON	
\$ ³ ^	THREE-WAY KEY OPERATED SWITCH 20A, 48"AFF UON	
\$		
⊅ ms		
Ф 	TIMER SWITCH 48"AFE LION	
	FAN SWITCH, 48"AFF UON	

Engineer High Rise MEP Engineering 213 Watergate Way Hutto, Texas 78634 designmep@aol.com (512) 431 6702 Mechanical - Electrical Plumbing Warehouse denia Drive S Tex ustin, Gardenia 2205 Gari 5 4 High **K**ise M E Engineering F-9491 Issue Date: 09/18/23 Revisions No. Date Description \mathbf{X} NAEEM EGHANI 93963

Project Number:092303Drawn By:NEDesigned By:NEChecked By:Naeem Eghani, PESheet Title:Code & NotesSheet Number:E0

Male En

General Notes:

- 1 All receptacles and switches shall be 20 amperes.
- 2 MC cable shall only be used for Lite Whips and in wall use only.
- 3 All home-runs shall be hard piped.
- 4 Conductors and equipment shall be approved and acceptable by 2020 national electric code.
- 5 All wiring shall be accordance with 2020 NEC.





General Notes:

- 1 All receptacles and switches shall be 20 amperes.
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- 4 Conductors and equipment shall be approved and acceptable by 2020 national electric code.
- 5 All wiring shall be accordance with 2020 NEC.

Key Notes:

- $\langle 1 \rangle$ Install meter (M) and service disconnect switch (SDS) at outside.
- $\langle 2 \rangle$ Install Panel "L" inside of building.
- $\langle 3 \rangle$ Label all circuits identified to outlets and equipments.
- $\langle 4 \rangle$ Install power for roll-up door.
- $\left< \mathbf{5} \right>$ Install power for outside sign.



PANEL: "	'L"			[I	1		I						
	_	1			LOAD, VA		СКТ	PH	СКТ		LOAD, VA					
			AMPS		RECOT						RECOT		AMPS	WIDE		
	1		20/1	500	RECPT.	UTHER	1	Δ	2	400	REGPT.	UTHER	20/1		-	
FF-1		12	20/1	000		500	2	B	2	1200			20/1	12		
		12	20/1	700		500	5	C C	6	500			20/1	12		LIGHT
	R	12	20/1	700	1800		7	Δ	8	500	1800		20/1	12	R	GECI
WH-1	WH	12	20/2			1500	, Q	B	10		1800		20/1	12	R	GECI
	WH	12				1500	11	C	12		1800		20/1	12	R	GECI
OVERHEAD DOOR	E	12	20/1			1400	13	A	14			1400	20/1	12	E	OVERHEAD DOOR
SIGN	Е	12	20/1			1000	15	В	16			1000	20/1	12	E	SIGN
GFCI	R	12	20/1		1800		17	C	18			950	20/2	12	AC	CU-1
							19	Α	20			950		12	AC	
							21	В	22							
							23	С	24							
							25	Δ	26							
							27	В	28							
							29	C	30							
							31	Α	32							
							33	В	34							
							35	С	36							
							37	Α	38							
							39	B	40							
							41	С	42							
		1	1	1200	3600	5900		1		2100	5400	4300		1		I
		CONN.	LOAD		DESIGN L	DAD]				-		_			
CATEGORY		KVA	-	DIV.	KVA	-	-									
LIGHTING:		3.3		1.25	4.1		-	MOUN	TING:		SURFA		NOTES			
RECEPTACLE:		9.0		1	9.0		-	VOLIS			12	0/208				
MOTORS:		0.5		1	0.5			PHASE			400	3/4 AMDS	**			
MISCELLANEOUS:		-		1	-			MAINIT			400 MI	Alvir 3				
ELECTRIC HEATING:		-		1	-			BUSS			COPE		***			
WATER HEATERS:		3.0		1	3.0		-	ALC. (RMS):		22	<u> </u>				
HVAC:		1.9		1	1.9		-	BREAK	ER TYPE	:	BOL	T-ON	X			
EQUIPMENT:		4.8		1	4.8		-	NEMA	RATING:		1					
-		-		1	-		-				WIRE	WIRE	GRD.	CON	DUIT	
								F	EEDER S	SIZE:	QTY.	SIZE	SIZE	SIZE		
		22.3					-			SET:	4	# 600 Cl	J # 1/0 C	U 3		
PANEL TOTAL AMPS		65					-	REMAR	KS:							

	SYMBOL SCHEDULE	
SYMBOL	DESCRIPTION	REMARKS
J	JUNCTION BOX	
4	DISCONNECT SWITCH, REFER TO DISCONNECT SCHEDULE	
\ominus	DUPLEX RECEPTACLE 20A/120V 16"AFF UON	
\$	SINGLE POLE SWITCH 20A, 48"AFF UON	
	COMBINATION TELEPHONE/DATA OUTLET, 16"AFF UON	

(1) ELECTRICAL RISER DIAGRAM

MARK	MANUFACTURER'S CATALOG NUMBER	LAMPS NO./TYPE	FIXTURE VOLTS/WATTS
	LITHONIA 2GTL4 5000LM	LED	120 / 39
	LITHONIA IBG 15LM 40K LED HIGH BAY	LED	120 / 107
	LITHONIA OLW 31	LED	120 / 48
O <u>exit</u> -O	LITHONIA LHQM S W 3 R	EMERGENCY LIGHT	120 / 5
	LITHONIA 6ELM2 120 CS CSA	EMERGENCY LIGHT 3-FOOT CORDSET	120 / 5.4
	LIGHTFIXTURE INDUSTRIES	EMERGENCY LIGHT	120 / 10

ELECTRICAL LOAD ANALYSIS FOR SHELL BUILDING DESIGN

PROVIDE 400A, 120/208V, 3 PHASE, 4 WIRE

-

B. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF WALL MOUNTED LIGHT FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN.

LIGHT FIXTURE SCHEDULE

C. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHT FIXTURE.

A. CONFIRM CEILING TYPE AND CONSTRUCTION PRIOR TO ORDERING LIGHT FIXTURE.

GENERAL NOTES:

1. LIGHTING LOAD:

Α.

2. RECEPTACLE LOAD:

3. EQUIPMENT LOAD: A. MOTORS: B. MISCELLANEOUS:

E. HVAC:

F. EQUIPMENT:

C. ELECTRIC HEATING:

D. WATER HEATERS:

4. 25% OF LARGEST MOTOR (KW):

(1) SET OF (4)W # 600 CU IN 4" CONDUIT.

6 120 / 208V, 3Ø, 400A, NEMA 1 PANEL "L".

5. TOTAL CONNECTED LOAD (KW)FOR EACH SUITE:

6. TOTAL AMP LOAD: 22800 / (208 X 1.731) = 65A

RISER DIAGRAM KEY NOTES

 $\langle 4 \rangle$ 120 / 208V, 3Ø, 400A, NEMA 3R SERVICE DISCONNECT SWITCH "SDS".

 $\langle 2 \rangle$ 120/208V, 3Ø, 400A, NEMA 3R TRANS-SOCKET METER "M'.

 $\langle 3 \rangle$ (2) SETS OF (4)W #3/0 CU AND (1)W #1/0 CU IN 3" CONDUITS.

 $\langle 5 \rangle$ (2) SETS OF (4)W #3/0 CU AND (1)W #1/0 CU IN 3" CONDUITS.

А. В.

3.3x1.25

	Eng	ineer
ŀ	ligh Rise M 213 Wate Hutto, Te designme (512) 4 Mechanica Plui	IEP Engineering ergate Way exas 78634 ep@aol.com 431 6702 I - Electrical mbing
	Gardenia Warehouse	2205 Gardenia Drive Austin, Texas
	H igh	Rise
	Engir F-S	peering 9491
Issu	ie Date: Revi	09/18/23 isions
No.	Date	Description
	NAEE NAEE NAEE	OF 75480 M EGHANI 93963 SISTERE DMAL
Proje	ect Number	:: 092303
Draw Desi	n By: NE	NE
Chec	ked By: N	aeem Eghani, PE
Shee	et Title: E	Electrical riser
5766	ει iNUMDer:	E-J

E UNSWITCHED.

BALLAST
-
-

General Note

1- All mechanical installation shall be per 2021 Uniform Mechanical Code (UMC) and city of Austin's mechanical amendments.

Key notes:

- $\langle 1 \rangle$ Install indoor unit over drop ceiling.
- $\langle 2 \rangle$ Install and secure condensate pan with overflow switch under coil.
- $\langle 3 \rangle$ Route condensate water from unit to mop sink (MS).
- $\langle 4 \rangle$ Mount thermostat (T) on wall at 48" above floor.
- $\langle \mathbf{5} \rangle$ Balance supply, return and fresh air as recommended on drawing.
- $\langle 6 \rangle$ Insulate all air duct with R-8 duct insulator over drop ceiling.
- Locate intake air 10 feet away from all exhaust air termination.
- $\langle 9 \rangle$ Install condenser unit outside of building over concrete pad.

T Route intake fresh air duct though wall out. Install rain cap, bird screen and motorize damper on fresh air duct. Install ventilation controller by factory's requirement (Aprilaire - Model # 8120X) to monitor relative humidity, outside air temperature and control damper.

Mechanical plan

Scale: 3/16"=1'-0"

(1

 $\langle 8 \rangle$ Route exhaust duct from restroom and through wall out. Install rain cap, damper and bird screen at the end.

							Heat Pump					
	OU [.]	TDOOR UNIT			COOLING	HEATING	ELECTRICAL		WEICHT	IN	DOOR UNIT	EVAPORATOR AIR
WARE	MARK	MODEL	SEER2	HSPF2	BTU/H	BTU/H	MCA / MCOP	W / D / H	WEIGHT	MARK	MODEL	OUTSIDE AIR
LENNOX	CU-1	MLA012S4S-1P	18	10	12.000	12,000	230V / 1Ø / 60HZ 9A / 20A	34 / 14 / 21	88 LBS	EV-1	MMDB012S4-2P	400 CFM 40 CFM
						Outsic	de Air					

Space description	living Area	Outside Air criteria	Outside Air required	No. of People	Outside Air criteria	Minimum Outside Air required	Outside Air A + B	Outside Air Provided
	(SQFT)	ACH	(CFM)	VARIABLE OCCUPANCY	(CFM/PERSON)	(CFM)	(CFM)	CFM AIR PROVIDE BY:
OFFICE	340	0.06	20 A	2	5	10 B	30 CFM	40 CFM BY "EV-1"
	MOTE:	(1) - Table 403	3.3.1.1 of 2021 UMC.					

MARK

EF

			DIFFUSER			
MARK	MAKE	MODEL #	DESCRIPTION	NECK SIZE	FINISH	REMARKS
A	SPECAIRE	AM5	CEILING DIFFUSER	8,10,12_Ø	OWNER OPTION	16X16
В	SPECAIRE	AM5	CEILING DIFFUSER	4,6,_Ø	OWNER OPTION	10X10
R	SPECAIRE	FBH1	RETURN , BACK FILTER	8,10,12_Ø	OWNER OPTION	24X24 & 24X12

	Re	stroom - E	Exhaust fan			
MAKE	MODEL NO.	SP	CAPACITIES	AMP / WATT	DUCT SIZE	REMARK
BROAN	L 100 MG	0.125	115 CFM	1.1 / 87	6"	1

1- Install rain cap and bird screen at the end of exhaust duct.

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	ligh Rise MEP Engineering
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	Hutto, Texas 78634 designmep@aol.com
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W / D / H	WEIGHT
30 / 19 / 7	38 LBS

General Note

1- All plumbing installation shall be per 2021 Uniform Plumbing Code (UPC) and city of Austin amendments.

key notes :

- (1) Water line from water meter to building, see civil utility plan.
- $\langle 2 \rangle$ Route water line near ceiling inside building.
- $\overrightarrow{3}$ Install water heater (WH-1) on housekeeping pad.
- $\langle 4 \rangle$ Install 1" insulation on all cold and hot water line.
- $\overline{(5)}$ See riser diagram for pipe sizing.

(1)

Domestic water plan

Scale: 3/16"=1'-0"

3/4"-

General Note

1- All plumbing installation shall be per 2021 Uniform Plumbing Code (UPC) and city of Austin amendments.

		FIXTURE AND	EQUIPMENT SCHEE	DULE		
MARK	FIXTURE / EQUIPMENT	MODEL NO.	SIZE / CAPACITY	TRIM / ACCESSORIES	REMARKS	
WC	WATER CLOSET	AMERCAN STANDARD ELONGATED BOWL VITREOUS CHINA	TANK 1.28 GPF	WHITE, CHURCH 9500C SEAT OPEN FRONT TYPE SEAT	WC-1 AT ADA HEIGHT	
LAV	WALL MOUNT LAVATORY	AMERCAN STANDARD 0321.026		WHITE, 2385.403 FAUCET, SUPPLIES WITH STOPS, WALL HANGER, CHROME PLATED P-TRAP, STRAINER DRAIN & SUPPLY INSUL. PER A.D.A. REQUIREMENTS	ADA COMPLIANCE	
MS	MOP SINK	ADVANCE TABCO 9-OP-20 FLOOR MOUNTED	2" PIPE SIZE	K-240 SERVICE FAUCET K-242 MOP HANGER		
WC0	WALL CLEAN OUT					
DYC0	DOUBLE YARD CLEAN OUT					
NOTES:				1	I	

WEIGHT

5 LBS.

3/4"

MANUFACTURE

THERM-X-TROL

MODEL

ST-5

MARK

EXP

1. FIXTURE MANUFACTURER SHALL BE EQUAL TO LISTED ONE.
 2. PROVIDE ALL CARRIERS AND SUPPORT MATERIALS REQUIRED FOR A SOLID AND SECURE INSTALLATION.

CAPACITY

2 GAL.

		ELI	ECTRIC	WATE	ER HEA	TER	TANK TY	′PE			
MARK	MANU MODE	FACTURE	KW INPUT		CAPACITY	,	HEIGHT / DIAMETER		ELECTRICAL REQUI V/Ø/A	REMENT	WEIGHT
WH-1 A.O. SMITH DSE-10		3 KW		10 GAL.		28" / 22"		208 / 1 / 14.4		116 LBS.	
_				EXP	PANSIO	N TA	NK				
		MANUFACTU	RE			DIA	METER /	CON	NECTION SIZE	WEIGHT	1

HEIGHT

8" / 13"

		FIXTURE	UNIT CO	UNT		
FIXTURE	QUANTIT	Y		WATER F.U.		
	NEW	EXISTING	ACCU.	EACH	TOTAL	
WC	1	-		2.5	2.5	
LAV	1	-		1	1	
MS	1	-		1.5	1.5	
TOTAL					5.0	

Sheet Number: P-3

STRUCTURAL NOTES

GENERAL

- 1. THESE GENERAL NOTES SHALL APPLY UNLESS NOTED OTHERWISE ON THE PLANS AND DETAILS.
- 2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND COORDINATE ALL DETAILS AND DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH RELATED REQUIREMENTS ON ARCHITECTURAL, MECHANICAL, ELECTRICAL AND/OR CIVIL DRAWINGS. THE ARCHITECT OR ENGINEER SHALL BE
- NOTIFIED OF ANY DISCREPANCIES PRIOR TO STARTING WORK 3. WHERE A CONFLICT OCCURS BETWEEN THE SPECIFICATIONS, NOTES ON THE DRAWINGS, GENERAL NOTES AND SPECIFIC DETAILS, THE MORE RESTRICTIVE SHALL GOVERN.
- 4. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE, 2021 EDITION.
- 5. DO NOT SCALE DRAWINGS.
- 6. THE DESIGN, ADEOUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND HAS NOT BEEN CONSIDERED BY THE STRUCTURAL ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE PRIOR TO THE APPLICATION OF ALL PERMANENT LATERAL BRACING, ROOF AND FLOOR DIAPHRAGMS AND FINISH MATERIALS. THE CONTRACTOR SHALL PROVIDE THE NECESSARY BRACING TO INSURE STABILITY PRIOR TO THE APPLICATION OF THE AFOREMENTIONED MATERIALS. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE THE INSPECTION OF THE ABOVE ITEMS.
- 7. VIBRATIONAL EFFECTS OF MECHANICAL EQUIPMENT ARE ASSUMED TO BE NEGLIGIBLE TO STRUCTURAL MEMBERS. SEE MECHANICAL DRAWING FOR REQUIRED VIBRATION ISOLATORS.
- 8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT. AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT IN CONJUNCTION WITH THE PERFORMANCE OF THIS WORK.
- 9. DIMENSIONS AND LOCATIONS OF ALL DOOR AND WINDOW OPENINGS SHALL BE DICTATED BY THE ARCHITECTURAL DRAWINGS. FLOOR, WALL AND ROOF OPENINGS AS REQUIRED BY OTHER TRADES SHALL BE VERIFIED FROM SHOP DRAWINGS, EQUIPMENT DATA, ETC.
- 10. ITEMS IDENTIFIED BY A TRADE NAME ARE INDICATIVE OF A LEVEL OF PERFORMANCE OR A GRADE OF MATERIAL. IN ALL SUCH CASES, THE PHRASE "OR APPROVED EQUAL" SHALL APPLY.
- 11. BACKFILL SHALL NOT BE PLACED AGAINST WALLS BEFORE FLOORS OR FRAMING SUPPORTING THE WALLS AT THE BOTTOM AND TOP ARE SECURELY IN PLACE EXCEPT AS SPECIFICALLY STATED IN WRITING BY THE STRUCTURAL ENGINEER.
- 12. PIPES, CONDUIT, DUCTS, ETC., SHALL NOT BE EMBEDDED INSIDE STRUCTURAL MEMBERS UNLESS SHOWN ON THE DRAWINGS OR PERMITTED IN WRITING BY THE STRUCTURAL ENGINEER.

CODES AND SPECIFICATIONS

- 1. 2021 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC).
- 2. ASCE 7-10, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES. 3. ACI 318/2014 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- 4. ACI 304, "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE".
- 5. ACI 301-10 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.
- 6. ACI 305, "RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING".
- 7. ACI 347, "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK"
- 8. ACI 315, "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT".

CONCRETE

USAGE	COMP ST
SLAB-ON GRADE, GRADE BEAMS	3,

SUBMITTALS

- SHALL BE CLOUDED.
- SIGNATURE (OR INITIALS) OF AN AUTHORIZED REPRESENTATIVE OF THE CONTRACTOR AND THE DATE.
- 3. CORRECTIONS OR COMMENTS ON SHOP DRAWINGS OR MANUFACTURER'S DATA SHEETS DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRECTING ALL QUANTITIES AND DIMENSIONS. SELECTING FABRICATION WITH THAT OF ALL OTHER CONTRACTORS.
- 4. REFER TO INDIVIDUAL SECTIONS FOR SPECIFIC SUBMITTAL REQUIREMENTS.

SOILS AND FOUNDATION

- COMPACTED SELECT FILL.
- TOP OF FINISH CONCRETE SLAB UNLESS OTHERWISE NOTED.
- 3. ALL COMPACTED FILL SHALL HAVE A MINIMUM DENSITY OF 95% OF THE
- MAXIMUM OBTAINABLE IN ACCORDANCE WITH ASTM D1557. 4. THE FOUNDATION DESIGN IS BASED UPON A REPORT BY:

SEC SOLUTIONS, LLC

- PROJECT #23192
- 5. SHALLOW FOUNDATION 5.1.BUILDING SLAB

REMOVE A MINIMUM OF 60" OF TOP SOILS AND REPLACE WITH COMPACTED SELECT FILL TO THE DESIRED FINAL GRADE ELEVATION (MIN. THICKNESS: 2FT). FOLLOW SELECT FILL AND COMPACTION REQUIREMENTS OUTLINE IN THE GEOTECHNICAL REPORT. DESIGN PI: 24, PVR: 2"

SELECT FILL)

SUBGRADE PREPARATION

1. STRUCTURAL FILL MATERIAL SHALL MEET REQUIREMENTS PRESENTED IN **GEOTECHNICAL REPORT ITEM 6.1**

- PRIOR TO PLACING FILL MATERIAL. REMOVE ALL ORGANIC AND OTHER OF THE OPTIMUM MOISTURE CONTENT.
- OPTIMUM MOISTURE CONTENT.
- 4. COMPACTION AND MOISTURE CONTENT OF SUB GRADE AND EACH LIFT OF STRUCTURAL FILL SHALL BE INSPECTED AND APPROVED BY A QUALIFIED
- 5. STRUCTURAL FILL SHALL NOT BE PLACED BEYOND THE LIMITS OF THE EXTERIOR BUILDING STRUCTURE.
- ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION OF TOP OF STRUCTURAL FILL
- 7. SUBGRADE PREPARATION SHALL BE INSPECTED AND APPROVED BY A GEOTECHNICAL ENGINEER.

SLAB ON GROUND

AND PROVIDE ADEQUATE AND UNIFORM LOAD-BEARING SUPPORT. GRADED MATERIAL TO REDUCE FRICTION BETWEEN THE BASE MATERIAL AND THE SLAB. THE RECOMMENDED POLYETHYLENE FILM A THICKNESS OF LOT LESS THAN 10 MILS BE USED.

STRUCTURAL NOTES

1. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AS FOLLOWS:

REHENSIVE	WATER/CEMENT RATIO (MAX.)
000 PSI	0.45

SHOP DRAWINGS SHALL BE PREPARED FOR ALL STRUCTURAL ITEMS AND SUBMITTED FOR REVIEW BY THE ENGINEER. CONTRACT DRAWINGS SHALL NOT BE REPRODUCED AND USED AS SHOP DRAWINGS. ALL ITEMS DEVIATING FROM THE CONTRACT DRAWINGS OR FROM PREVIOUSLY SUBMITTED SHOP DRAWINGS

THE CONTRACTOR SHALL REVIEW SHOP DRAWINGS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS AND SHALL CERTIFY THAT HE HAS DONE SO BY A STAMP NOTING THAT THE DRAWINGS HAVE BEEN "APPROVED" AND WHICH BEARS THE

REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. THE ENGINEER'S REVIEW IS FOR GENERAL CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT PROCESSES AND TECHNIQUES OF CONSTRUCTION AND COORDINATING HIS WORK

1. LOCATE THE BOTTOM OF ALL EXTERIOR FOOTINGS A MINIMUM OF 18" INTO

2. LOCATE THE BOTTOM OF ALL INTERIOR FOOTINGS A MINIMUM OF 30" BELOW

ALLOWABLE BEARING PRESSURE: 2,000 PSF (MIN 1.5 FT INTO COMPACTED

DELETERIOUS MATERIAL FROM THE EXISTING SUB GRADE FOR A DISTANCE OF 5'-0" BEYOND BUILDING LINE. ALL EXPOSED SURFACES SHALL THEN BE SCARIFIED TO A DEPTH OF 6 INCHES. WATERED AS REQUIRED AND RE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DEFINED BY ASTM D 698 (STANDARD PROCTOR TEST) AT A MOISTURE CONTENT WITHIN 3 PERCENT

3. STRUCTURAL FILL SHALL BE PLACED IN 8 INCH LOOSE LIFTS. WATERED PER PLAN AND COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DEFINED IN ASTM D698 AT A MOISTURE CONTENT WITHIN 4 PERCENT OF THE

ENGINEERING TECHNICIAN, SUPERVISED BY A GEOTECHNICAL ENGINEER.

6. PROVIDE A 10 MIL POLYETHYLENE VAPOR BARRIER. PLACE VAPOR BARRIER IN

1. SOIL SUPPORT SYSTEM: THE SOIL SUPPORT SYSTEM SHOULD BE WELL DRAINED 2. VAPOR BARRIER: IF A VAPOR BARRIER OR VAPOR RETARDER IS REQUIRED DUE TO LOCAL CONDITIONS, THESE PRODUCTS SHOULD BE PLACED UNDER A MINIMUM OF 4" OF TRIMMABLE, COMPACTIBLE, GRANULAR FILL (NOT SAND). A USUALLY GRADED FROM 1 1/2" TO 2" DOWN TO ROCK DUST, IS SUITABLE FOLLOWING COMPACTION. THE SURFACE CAN BE CHOCKED OFF WITH A FINE

SLAB ON GROUND (CONT.)

- 4. SAW-CUT JOINTS: THE RECOMMENDED SAW CUTTING SHOULD BE PERFORMED: (I) BEFORE CONCRETE STARTS TO CURE (II) AS SOON AS THE CONCRETE SURFACE IS FIRM ENOUGH TO BE TORN OR DAMAGED BY THE BLADE, AND (III) BEFORE RANDOM - DRYING - SHRINKAGE CRACKS FAN FORM IN THE CONCRETE SLAB. IF SAWING IS UNDULY DELAYED. THE CONCRETE CAN CRACK RANDOMLY BEFORE IT IS SAWED. ADDITIONALLY, DELAY CAN GENERATE CRACKS THAT RUN OFF FROM THE SAW BLADE TOWARD THE EDGE OF THE SLAB AT AN
- OBTUSE OR SKEWED ANGLE TO THE SAW CUT. JOINT FILLING: WHERE THERE ARE WET CONDITIONS. HYGIENIC AND DUST -CONTROL REQUIREMENTS, OR WHERE THE FLOOR IS SUBJECTED TO TRAFFIC BY SMALL. HARD-SHEELED VEHICLES SUCH AS FORKLIFTS. CONTRACTION & CONSTRUCTION JOINTS SHOULD BE FILLED AND PROTECTED WITH A SEMIRIGID EPOXY THAT GIVES ADEQUATE SUPPORT TO THE JOINT EDGES AND HAS SUFFICIENT RESISTANCE TO WEAR.

<u>CONCRETE</u>

CEMENT SHALL CONFORM TO ASTM C150, TYPE V. WATER TO CEMENT RATIO SHALL NOT EXCEED 0.45 UNLESS NOTED OTHERWISE. 2. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS IN ACCORDANCE WITH IBC. THE MIX DESIGNS SHALL BE SIGNED AND STAMPED BY A CIVIL ENGINEER

- REGISTERED IN TEXAS. HARDROCK AGGREGATE SHALL CONFORM TO ASTM C33.
- 4. APPROXIMATE AIR-DRY DENSITY FOR HARDROCK CONCRETE SHALL BE 145 PCF. 5. LIGHTWEIGHT CONCRETE AGGREGATE SHALL CONFORM TO ASTM C330. 6. APPROXIMATE AIR-DRY DENSITY FOR LIGHTWEIGHT CONCRETE SHALL NOT EXCEED 110 PCF.
- 7. ALL CONCRETE OF COMPRESSIVE STRENGTH GREATER THAN 3.000 PSI SHALL HAVE CONTINUOUS INSPECTION BY A REGISTERED DEPUTY INSPECTOR APPROVED BY THE BUILDING DEPARTMENT.
- 8. STRIPPING OF FORMS AND SHORING SHALL BE IN STRICT ACCORDANCE WITH ACI 318, LATEST EDITION. 9. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF ALL PIPES, CONDUITS, ETC.

CONCRETE REINFORCEMENT

1. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. REINFORCING TO BE WELDED SHALL BE ASTM A706, GRADE 60. 2. LOW HYDROGEN WELDING RODS SHALL BE USED FOR ALL WELDING OF

- REINFORCING BARS. 3. CONTINUOUS REINFORCING SHALL BE SPLICED WITH 30 BAR DIAMETERS MINIMUM (COMPRESSION) IN CONCRETE AND MASONRY AND 48 BAR DIAMETERS
- MINIMUM (TENSION) IN CONCRETE AND MASONRY UNLESS NOTED OTHERWISE. 4. REINFORCING BARS SHALL NOT BE REBENT WITHOUT PRIOR WRITTEN APPROVAL OF STRUCTURAL ENGINEER. 5. REINFORCING SHALL BE SPLICED ONLY AS SHOWN OR NOTED. SPLICES AT
- OTHER LOCATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. 6. SPLICES IN ADJACENT HORIZONTAL WALL REINFORCING BARS SHALL BE STAGGERED 4'-0" MINIMUM UNLESS OTHERWISE NOTED. PROVIDE DOWELS IN
- FOOTINGS AND/OR GRADE BEAMS THE SAME SIZE AND NUMBER AS VERTICAL WALL OR COLUMN REINFORCING. DOWELS SHALL HAVE A MINIMUM PROJECTION EQUAL TO STANDARD LAP SPLICE UNLESS OTHERWISE NOTED.
- 7. ALL REINFORCING, ANCHOR BOLTS AND OTHER INSERTS SHALL BE SECURED IN PLACE PRIOR TO PLACING CONCRETE OR GROUTING MASONRY. 8. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- 9. MINIMUM CONCRETE COVER SHALL BE AS SPECIFIED IN ACI 318 9.1.LATEST EDITION.
- 9.1.1. CONCRETE CAST AGAINST AND
- PERMANENTLY EXPOSED TO EARTH
- 9.1.2. CONCRETE EXPOSED TO EARTH OR WEATHER: NO. 6 THROUGH NO. 18 BAR 2"
- NO. 5 BAR, W31 OR D31 WIRE AND SMALLER 1 1/2" 9.0.1. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
- SLAB, WALL, JOISTS: NO. 14 AND NO. 18 BAR 1 1/2"
- NO. 11 BAR AND SMALLER 3/4"

10. BARS WITH A CARBON EQUIVALENT ABOVE 0.75 SHALL NOT BE WELDED. WELDING SHALL NOT BE DONE ON OR WITHIN TWO BAR DIAMETERS OF ANY PORTION OF A BAR THAT HAS BEEN BENT COLD.

CORNER BAR DETAIL 1

BAR @ INTERIOR INTERSECTION DETAIL 2

MINIM		ENT WITH ST	ANDARD 90			LAP SPLIC	e length (g	RADE 60 STEE	EL)	
UEG. (HOUK GRADE 60 STEEL)				BAR SIZE	LAP LENGTH (TOP BARS)	LAP LENGTH (OTHER BARS)	LAP LENGTH (TOP BARS)	LAP LENGTH (OTHER BARS)	LAP LENGTH (TOP BARS)	LAP LENGTH (OTHER BARS
R SIZE	3000 OR GREATER	4000 OR GREATER	6000 OR GREATER	#3	2'-7"	2'-0"	2'-3"	1'-9"	2'-1"	1'-8"
#3	0'-6"	0'-6"	0'-6"	#4	3'-4"	2'-7"	2'-11"	2'-4"	2'-8"	2'-1"
#4	0'-8"	0'-7"	0'-6"	#5	4 '-1"	3'-3"	3'-7"	2'-10"	3'-3"	2'-7"
#5	0'-10"	0'-9"	0'-8"		4 4 4 8		4.01	2.10	21.40	2.0
#6	0'-1"	0'-10"	0'-9"	#6	4'-11"	3"-10"	4:-3"	5'-4"	3"-10"	3'-0"
#7	1'-2"	1'-0"	0'-11"	#7	7'-0"	5'-5"	6'-1"	4'-9"	5'-6"	4'-3"
#8	1'-4"	1'-2"	1'-0"	#8	8'-0"	6'-2"	6'-11"	5'-5"	6'-3"	4'-10"
#0	41.41	41.21	41.01	#9	8'-11"	6'-11"	7'-9"	6'-1"	7'-0"	5'-5"
#9	1-0	1-3	1-2	#10	10'-1"	7-9"	8'-9"	6'-9"	7"-10"	6'-1"
#10	1'-8"	1'-5"	1'-4"	#11	11'-3"	8'-7"	9'-8"	7-6"	8'-8"	6'-9"
#11	1'-10"	1'-7"	1'-5"	#14	MECH.	MECH.	MECH.	MECH.	MECH.	MECH.
#14	2'-0"	2'-9"	2'-5"	#18	MECH.	MECH.	MECH.	MECH.	MECH.	MECH.
#18	2'-2"	3'-7"	3'-3"		COUPLERS	COUPLERS	COUPLERS	COUPLERS	COUPLERS	COUPLERS
		•			NOTES:					
VERT. BARS BAR SPLICING NOTES: P SIZE 1. SEE DETAILS A THRU B FOR TYPICAL			1. TOP BARS AR 2. LAP SPLICES THAN 80% OF T	E DEFINED AS HOR OF DIFFERENT BAI HE SPLICE LENGTH	ZONTAL BARS LO R SIZES MA USE TH OF THE LARGER I	CATED MORE THAN IE SPLICE LENGTH BAR	I 12" ABOVE THE I OF THE SMALLER	BOTTOM OF A PO BAR, BUT NOT L		

REBAR SPLICE SCHEDULE 7

N.T.S.

SITE PREPARATION NOTES:

- 1. ALL REQUIREMENTS TO FOLLOW THE REQUIREMENTS OUTLINED IN GEOTECHNICAL REPORT BY SEC SOLUTIONS LLC (REPORT #23192). CONTRACTOR MUST BE FAMILIAR WITH SPECIFIC REQUIREMENTS OF THE REPORT AND IMPLEMENT THEM AS INDICATED IN THE REPORT. ANY QUESTIONS ABOUT THE SITE PREPARATION REQUIREMENTS SHOULD BE DIRECTED TO THE GEOTECHNICAL ENGINEER.
- 2. REMOVE EXISTING NATURAL CLAYS TO A DEPTH OF 5FT (MIN.) BELOW GRADE. REMOVAL OF MATERIAL SHALL EXTEND 5FT BEYOND BUILDING FOOTPRINT. 3. PROOFROLL EXPOSED SURFACE TO ELIMINATE POTENTIAL SOFTSPOTS. REFER TO
- GEOTECHNICAL INVESTIGATION FOR ADDITIONAL REQUIREMENTS. 4. SELECT FILL MATERIAL (E.G., ROAD BASE) TO BE PLACED IN 6 TO 8 INCHES LIFTS AND
- COMPACTED TO 95% OF THE MODIFIED PROCTOR (ASTM D1557). 5. FILL MATERIAL SHALL BE COMPOSED OF CRUSHED LIMESTONE MEETING ALL OF THE REQUIREMENTS OF 2014 TXDOT ITEM 247, TYPE A, GRADE 1 OR 2.
- 6. CONTRACTOR TO GUARANTEE THAT EXISTING FILL IS FREE OF ORGANICS, TOPSOIL, LARGE BOULDERS OR OTHER DELETERIOUS MATERIALS.
- 7. CONTRACTOR TO RETAIN A 3RD PARTY COMPANY TO PERFORM QUALITY CONTROL OF THE PLACEMENT AND COMPACTION OF SELECT FILL. RECORDS FOR THE SAMPLING AND TEST RESULTS MUST BE SUBMITTED TO THE GEOTECHNICAL COMPANY AND SEC SOLUTIONS LLC FOR REVIEW AND APPROVAL.

CONTRACTOR TO VERIFY FINAL DIMENSIONS WITH ARCHITECTURE. CONCRETE FORM CONSTRUCTION TO BE SET BY ARCHITECTURAL PLANS/DIMENSIONS ONLY

PRE-POUR INSPECTION BY SEC REPRESENTATIVE IS REQUIRED. TO SCHEDULE CONTACT OFFICE@SECTEXAS.COM OR CALL 512-215-4364

- PLAN NOTES
- 1. FIRST FLOOR TOP OF SLAB ELEVATION 0'-0" (DATUM) UNLESS OTHERWISE NOTED. (REF. CIVIL PLANS FOR FINAL M.S.L.E.)
- 2. ALL ELEVATIONS SHOWN THUS ARE TO THE <u>TOP</u> OF CONC. ABOVE OR BELOW THE DATUM ELEVATION.
- 3. CONSTRUCTION/CONTROL JOINT SPACING IN SLAB-ON-GRADE SHALL NOT EXCEED 15'-0" IN ANY DIRECTION. LAYOUT SHOWN ON PLAN IS DIAGRAMMATIC AND A FINAL JOINT LAYOUT PLAN SHALL BE COORDINATED WITH THE ARCHITECT (REF. TYPICAL DETAILS 4 & 5/S0.3)
- 4. ALL COLUMNS ARE CENTERED ON COLUMN CENTERLINES UNLESS OTHERWISE NOTED.
- 5. CONTROL SURFACE OR SUB-SURFACE WATER TO ALLOW FOUNDATION WORK TO BE PERFORMED/DONE IN DRY UNDISTURBED CONDITIONS.
- 6. PIPE SLEEVES FOR UTILITIES ARE TO BE TWO PIPE SIZES LARGER THAN THE PIPE SHOWN ON THE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. VERIFY AND COORDINATE WITH THE INDIVIDUAL TRADE CONTRACTOR AS REQUIRED. COORDINATE WITH MEP DRAWINGS FOR **REQUIRED LOCATIONS AND INVERT ELEVATIONS.**
- 7. STAKEOUT/LOCATE THE BUILDING REFERENCING THE CIVIL AND ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
- 8. COORDINATE ALL DIMENSIONS WITH THE ARCHITECTURAL PLANS AND THE SPECIFIC CONTROL PLAN PREPARED FOR EACH LEVEL AND/OR REFER TO THE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. NOTIFY THE ARCHITECT/ENGINEER OF ANY DIMENSIONAL DISCREPANCIES.
- 9. SIZE AND LOCATION OF ALL FLOOR OPENINGS TO BE COORDINATED WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS.
 - **GEOTECHNICAL SUMMARY**
 - 1. GEOTECHNICAL REPORT BY:
 - SEC SOLUTIONS LLC 2. PROJECT NUMBER: <u>23192</u>
 - 3. DESIGN PI: <u>24</u>
 - 4. ALLOWABLE BEARING CAPACITY:
 - 2,000 PSF (COMPACTED FILL)
 - DESIGN SUMMARY **1. CONCRETE COMPRESSIVE** STRENGTH (28 DAYS): 3000 PSI 2. SLAB THICKNESS: 4 IN 3. INTERIOR BEAM DIMENSIONS: WIDTH:12" DEPTH:30" 4. EXTERIOR BEAM DIMENSIONS: WIDTH: 12" DEPTH: 30" MIN. (PLAN NOTE 4)

FOUNDATION NOTES

CODES AND SPECIFICATIONS

- 1. 2021 EDITION OF THE INTERNATIONAL BUILDING CODE.
- 2. ASCE 7-16, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
- 3. ACI 301-05 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS AND ACI-318-19 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.

MATERIALS

CONCRETE

- 1. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3600 PSI
- 1.1. MINIMUM CEMENT CONTENT: 4 SACKS/C.Y
- 1.2. MAXIMUM WATER/CEMENT RATIO: 0.50
- 1.3. SLUMP RANGE: 5" MIN 8" MAX.
- 1.4. MAX. COARSE AGGREGATE SIZE: $\frac{3}{4}$ "
- 2. ALL REINFORCING SHALL BE ASTM A-615, GRADE 60 3. STANDARD PROTECTIVE COVER OF REINFORCING
- BARS UNLESS OTHERWISE NOTED SHALL BE:
- 3.1. WHERE CAST AGAINS DIRT OR FILL 3"
- 3.2. EXPOSED TO EARTH OR WATER 2"
- 3.3. SLABS AND WALLS (EXTERIOR) 2"

FOUNDATION CONSTRUCTION

- 1. DRAINAGE AROUND THE PERIMETER OF THE RETAINING WALL SHALL BE DONE PER IBC SUCH THAT NO WATER SHALL COLLECT UNDER OR ADJACENT TO THE WALL.
- 2. HEAVY VEGETATION SUCH AS TREES WITHIN 20 FT. OF RETAINING WALL MAY CAUSE EXCESSIVE WATER REMOVAL AND DAMAGE FOUNDATION.
- 3. FOR FIELD CONDITIONS NOT EXPLICITLY COVERED BY
- PLANS AND DETAILS, CONTACT ENGINEER OF RECORD. 4. REPORT ALL CONFLICTS TO THE ENGINEER OF RECORD.
- 5. PRE-POUR INSPECTIONS BY ENGINEER OF RECORD ARE REQUIRED.

WALL MAINTENANCE NOTES

- 1. THE MAINTENANCE OF AND EVENTUAL REPAIRS TO THE RETAINING WALL(S) ARE THE RESPONSIBILITY OF THE OWNER.
- 2. CONDITION ASSESSMENT: THE RETAINING WALL MUST BE PERIODICALLY INSPECTED TO VERIFY THAT DRAINAGE MEASURES ARE FUNCTIONING PROPERLY, EROSION HAS NOT OCCURRED ALONG THE TOP, ENDS, OR BOTTOM OF THE WALL AND FOOTING AND IF ANY UNANTICIPATED MOVEMENT OR DEFLECTION OF THE WALL HAS OCCURED. **RESULTS SHALL BE ASSESSES BY A QUALIFIED DESIGN** PROFESSIONAL.
- **3. RETAINING WALL SHOULD BE INSPECTED AT PERIODIC** INTERVALS. A MINIMUM OF ONE CONDITION ASSESSMENT EVERY 3 YEARS IS REQUIRED.
- 4. THE CONDITION ASSESSMENT SHALL BE CONDUCTED ON BEHALF OF THE OWNER BY OR UNDER THE DIRECT SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS.

FINAL GRADE -(REF. CIVIL) POSITIVE DRAINAGE @ BACK OF WALL, TYP. SELECT FILL (BACKFILL) -4" DIA. PVC PIPE

(IN 12" GRAVEL POCKET) **SLOPE TO DAYLIGHT** WRAPPED IN GEOTEXTIL

- 2FT OF COMPACTED SELECT FILL.
- TXDOT ITEM 247, TYPE A OR B, GRADE 1 OR 2.
- SURFACE TO BE COMPACTED TO 95% OF THE STANDARD PROCTOR (ASTM D698).
- PROCTOR (ASTM D698).
- COMPANY TO PERFORM QUALITY CONTROL OF PLACEMENT AND COMPACTION OF SELECT FILL. **RECORDS OF SAMPLING AND TEST RESULTS MUST** APPROVAL.
- SIDES OF FOOTING TO COMPLY TO THE FOLLOWING ATTERBERG LIMITS: LL = 35 (MAX.); PI = 15 (MAX.). MAX. AGGREGATE SIZE: $\frac{3}{4}$ ".

