

# GULF COAST CENTER FOR ECOTOURISM & SUSTAINABILITY MOBILITY HUB PACKAGE

1640 ECO TRAIL, GULF SHORES, ALABAMA

## **DESIGN TEAM**

Architect of Record

ArchitectureWorks 130 Nineteenth Street South Birmingham, Alabama 35233 205.320.0880

WATERSHED 302 Magnolia Avenue Fairhope, Alabama 36532 251.929.0514

Local Architect

### Civil Engineer Thompson Engineering 2970 Cottage Hill Road, Suite 190 Mobile, Alabama 36606

Structural Engineer Thompson Engineering 2970 Cottage Hill Road, Suite 190 Mobile, Alabama 36606 251.666.2443

Mechanical Enginee **TLC Engineering Solutions** 13099 South Cleveland Avenue, Suite 500 Fort Myers, Florida 33907

**Matthew Wiechart** 

239.275.4240

R

RD

#### **Plumbing Engineer** TLC Engineering Solutions 13099 South Cleveland Avenue, Suite 500 Fort Myers, Florida 33907 239.275.4240

Matthew Wiechart

T&B

TB&T

TC

Jay Pigford

Rebecca Bryant

251.666.2443

Charles Weber

Casey Brown

## ABBREVIATIONS

Α	
AB AD AC ACT ADD ADD'L ADJ AFF AGGR AL/ALUM ALT ANOD APPROX ARCH <b>B</b>	ANCHOR BOLT AREA DRAIN AIR CONDITIONING ACOUSTICAL CEILING TILE ADDENDUM ADDITIONAL ADJACENT ABOVE FINISHED FLOOR AGGREGATE ALUMINUM ALTERNATE ANODIZED APPROXIMATE ARCHITECTURAL
B.M.	BENCH MARK
BD	BOARD
BTWN	BETWEEN
BL	BUILDING LINE
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
BUR	BUILT-UP ROOF
BW	BEARING WALL
<u> </u>	
CEM CER CG CIP CJ CLG CLG CLR CONU CONC CONN CONST CONST CONST CONT COORD CORR CR CSK CT CTR CW	CEMENT CERAMIC CORNER GUARD CAST IN PLACE CONTROL JOINT CENTER LINE CEILING CLEAR CONCRETE MASONRY UNIT COLUMN COMMUNICATIONS CONCRETE CONNECTION CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTION CONTINUOUS COORDINATE CORRIDOR COLD ROLLED COUNTERSUNK CERAMIC TILE CENTER CURTAIN WALL
D	
D	DEPTH
DBA	DEFORMED BAR ANCHOR
DET	DETAIL
DIA	DIAMETER
DIAPH	DIAPHRAGM
DIM	DIMENSION
DJ	DEFLECTION JOINT
DL	DEAD LOAD
DN	DOWN
DWG	DRAWING
DWGS	DOWN SPOUT
DWGS	DRAWINGS
DWLS	DOWELS

E		
A F IINISH SY J L LEC LEV OS QUIP SC W WC COC XIST XP BLT XT	STEM EXPANSION JOINT ELEVATION ELECTRIC ELEVATOR EDGE OF SLAB EQUAL EQUIPMENT ESCALATOR EACH WAY ELECTRIC WATER	ND
D DN E EC CABI F HC IN IR S T TG V VC	FLOOR DRAIN FOUNDATION FIRE EXTINGUISHER FIRE EXTINGUISHER INET FINISH FLOOR FIRE HOSE CABINET FINISH FLOOR FAR SIDE FOOT FOOTING FIELD VERIFY FIRE VALVE CABINET	
GA GALV GB GEN GI GI GND GR GYP BD	GAUGE GALVANIZED GRADE BEAM GENERAL GALVANIZED IRON GLASS GROUND GRADE GYPSUM BOARD	
IB IDW IDWD IK IM IOR IOR IP IR IS IT	HOSE BIB HARDWARE HARDWOOD HOOK HOLLOW METAL HORIZONTAL HIGH POINT HOUR HEADED STUD HEIGHT	

INTERNATIONAL BUILDING CODE INSIDE DIAMETER INSUL INSUL INT INTERIOR INSULATION

IBC

ID

	ANGLE
V	LAVATORY
	LONG
3	LOCKABLE
	LIVE LOAD
ł	LONG LEG HORIZONTAL
/	LONG LEG VERTICAL
С	LOCATION
	LOW POINT
	LIGHT
'C	LIGHTWEIGHT CONCRETE

MAS MASONRY MAT'L MATERIAL MAX MAXIMUM MECH MECHANICAL MEMB MEMBRANE MPE MECHANICAL, PLUMBING, AND ELECTRICAL MFG MANUFACTURER MIN MINIMUM MISC MISCELLANEOUS МО MASONRY OPENING MTL METAL

NOT AVAILABLE NA NOT IN CONTRACT NIC NOA NOTICE OF ACCEPTANCE NOM NOMINAL NS NEAR SIDE NTS NOT TO SCALE NWC NORMAL WEIGHT CONCRETE

#### OA OVER ALL OC ON CENTER OD OUTSIDE DIAMETER OD OVERFLOW DRAIN OFCI OWNER FURNISHED, CONTRACTOR INSTALLED OFOI OWNER FURNISHED, OWNER INSTALLED ОН OPPOSITE HAND OPNG OPP OSF OPENING OPPOSITE OUTSIDE FACE

0

#### PLASTIC LAMINATE PLAM PRECAST CONCRETE PC PCF FOOT POUNDS PER CUBIC PCP PORTLAND CEMENT PLASTER PL PROPERTY LINE PLUMB PLUMBING PLYWOOD PLYWD POL POLISHED PORT CEM PORTLAND CEMENT PR PAIR PREFAB PREFABRICATED POUNDS PER SQUARE FOOT PSF POUNDS PER SQUARE INCH PSI POINT PT PNEUMATIC TUBE PT PTD PAINTED

RISER RADIUS RAD RCP REFLECTED CEILING PLAN ROOF DRAIN REINFORCING BAR REBAR RECP RECEPTACLE REFER OR REFERENCE REF REINF REINFORCING RELOC RELOCATE/RELOCATED REQ'D REQUIRED RFVC RECESSED FIRE VALVE CABINET RM ROOM ROUGH OPENING RO

<u> </u>	
SAB	Sound attenuation
BLA	ANKET
SCHED	SCHEDULE
SECT	SECTION
S/H	SINGLE HUNG
SHWR	SHOWER
SIM	SIMILAR
SO	STRUCTURAL OPENING
SOG	SLAB ON GRADE
SP	STAND PIPE
SPA	SPACE, SPACING
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
SSF	SOLID SURFACE
STA	STATION
STC	sound transmission
STD	STANDARD
STIFF	STIFFENER
STIR	STIRRUP
STL	STEEL
STRUC	STRUCTURAL

SYM SYMMETRICAL

SYS SYSTEM

TEL	TELEPHONE
TEMP	TEMPERATURE
THK	THICK
TLT	TOILET
TO	TOP OF
TOB	TOP OF BEAM
TOC	TOP OF FOOTING
TOF	TOP OF FOOTING
TOP	TOP OF FOOTING
TOS	TOP OF SLAB
TOSTL	TOP OF SLAB
TRSH CH	TOP OF STEEL
TW	TRASH CHUTE
TYP	TOP OF WALL
<b>U</b>	TYPICAL
U/C	UNDER COUNTER
U/G	UNDERGROUND
UNO	UNLESS NOTED
OTH	IERWISE
VAR	VARIES
VCT	VINYL COMPOSITION
VERT	VERTICAL
VEST	VESTIBULE
VWC	VINYL WALL COVERING
W	
W/	WITH
W/C	WHEEL CHAIR
W/O	WITHOUT
WP	WIDTH
WD	WATERPROOF(ING)
WF	WOOD

WIND LOAD

WORK POINT

WORK POINT - POINT OF

WWF 6x6 W2.9/ W2.9 WELDED WIRE

\_\_\_\_

CLASS

WL

WP

WPO

ORIGIN

REINFORCEMENT

WP1 WORK POINT

NUMBERED

TREAD

TOP & BOTTOM

TOP OF CURB

TAPE, BED, & TEXTURE

Electrical Enginee TLC Engineering Solutions 13099 South Cleveland Avenue, Suite 500 2970 Cottage Hill Road, Suite 200 Fort Myers, Florida 33907

Landscape Architect Watermark Design Group Mobile, Alabama 36606

**Interior Designer** Hatcher Schuster Interiors 2213 Morris Avenue, Suite 300

**Mike Barrile** 

TILE

239.275.4240

Christopher Grant

## MASTER KEYNOTES

251.344.5515

03 3000 Cast-in-Place Concrete - See Structural for reinforcement Board Form Cast-in-Place Concrete - See 03 3000.BF Structural for reinforcement 05 5000 Metal Fabrications Knife Plate Base Plate Connection - See 05 5000.KPB Structural 05 5000.KPC Knife Plate Column Connection - See Structural 06 1000 Rough Carpentry 06 1000.4C 4X4 Column 06 1000.8C 8x8 Column 2x4 Framing 06 1000.F4 06 1000.F6 2x6 Framing 06 1000.F8 2x8 Framing 2x10 Framing 06 1000.F10 06 1000.F12 2x12 Framing 06 1000.PT Pressure Treated Sill Plate 06 1000.ST Framing Straps & Ties - See Structure 06 1300.6B 6x12 Beam 06 1300.8B 8x12 Beam 06 1516 Wood Roof Decking 06 1600 Sheathing 06 1753 Shop-Fabricated Wood Trusses 06 1816 Glued-Laminated Columns 06 2000 Finish Carpentry 06 2000.2X 2x Slat 06 2000.PLY Stained 3/4" Plywood 06 2000.SWB Stained Wood Boards 06 2000.SWT Stained Wood Trim Exterior Finish Carpentry 06 2013 06 2013.46C 4x6 Column 06 2013.F4 2x4 Wood Boards 06 2013.F6 2x6 Wood Boards 06 4100 Architectural Wood Casework 2" Nail Base Rigid Insulation Board 07 2100.NB2 07 2100.R13 R-13 Batt Insulation 07 2100.R30 R-30 Batt Insulation 07 2100.SB Sound Batt 07 2126 Blown Insulation 07 2500.FAMF Fluid Applied Membrane Flashing 07 2500.SPS Sill Plate Sealer 07 4113 Metal Roof Panels 07 4113.UL Roof Underlayment 07 4623.CB Engineered Wood Corner Board 07 4623.LS Engineered Wood Lap Siding 07 4623.TR Engineered Wood Trim Sheet Metal Flashing and Trim 07 6200 07 7123 Manufactured Gutters and Downspouts 07 7123.D Manufactured Downspouts 07 7123.G Manufactured Gutters 07 9200 Joint Sealants 07 9200.FBS Full Bed of Sealant Low Expansion Foam Sealant 07 9200.LEF 07 9200.S Sealant 07 9200.SBR Sealant and Backer Rod 08 1113 Hollow Metal Doors and Frames 08 1416 Flush Wood Doors 08 1423 Clad Wood Doors 08 1613 Fiberglass Doors

Birmingham, Alabama 35203 205.324.3442 Ivy Schuster

08 3323

08 5200

08 5400

08 6223

09 2116.GYP

09 2116.L

09 3000.CB

09 3000.FT1

09 3000.NCT

09 3000.WT1

10 2113.17

11 3013

12 3600

12 9313

22 1400

22 4713

26 5119

26 5619

31 3116

32 1216

32 3116

32 3136.RG

32 3136.SF

32 3300.BN

32 3300.WB

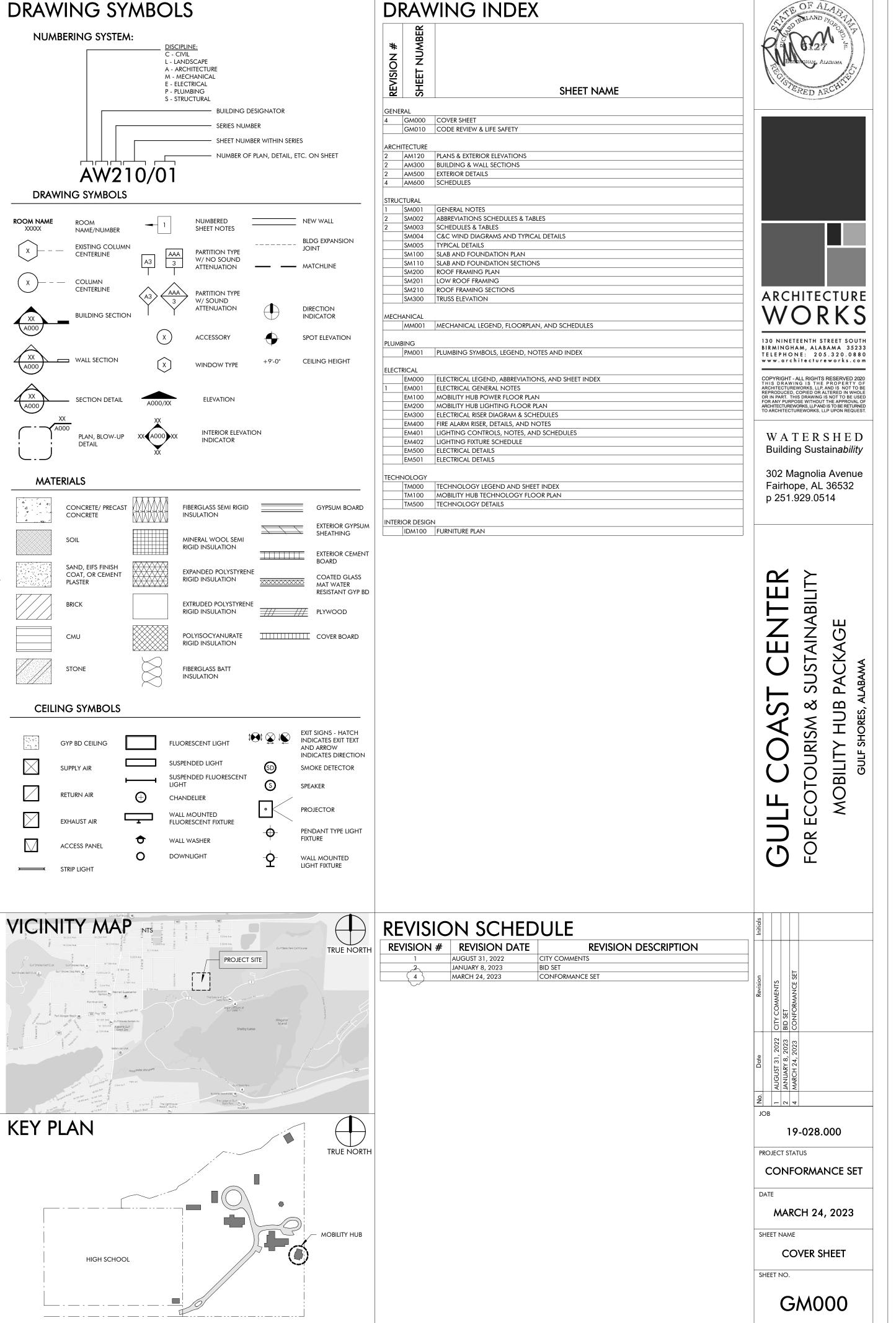
32 3313.BF

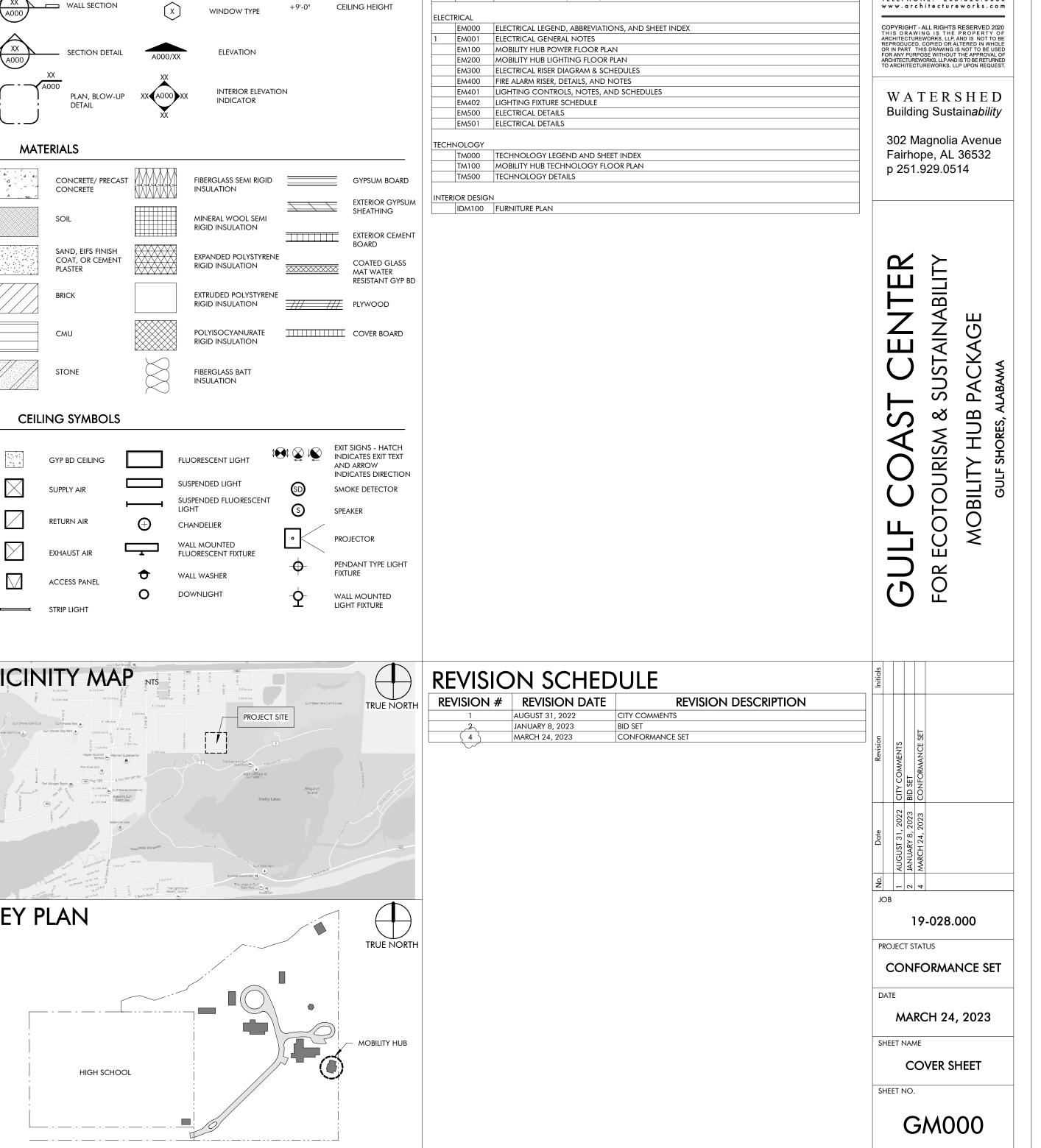
32 3313.BR

22 4216.13

10 2113.17.U

Overhead Coiling Doors Wood Windows Composite Windows Tubular Skylights 1/2" Gypsum Wallboard L Bead Accessory Cement Board Porcelain Floor Tile Non-Ceramic Trim Porcelain Wall Tile & Grout Phenolic Toilet Compartments Post Supported Urinal Screen Residential Appliances Countertops Bicycle Racks Rain Water Harvesting Commercial Lavatories Drinking Fountains LED Interior Lighting LED Exterior Lighting Termite Control Asphalt Paving Welded Wire Fences and Gates Road Gate Site Fencing Site Bench Waste & Recycling Bins **Bicycle Repair Station** Bicycle Racks





# DRAWING INDEX

	BLDG EXPANSION JOINT
	MATCHLINE
$\bigoplus$	DIRECTION INDICATOR
$\bullet$	SPOT ELEVATION
+9'-0"	CEILING HEIGHT

REVIS	SHEE		
R	<u>ک</u>	SHEET NAME	
GENE	ERAL		
4	GM000	COVER SHEET	
	GM010	CODE REVIEW & LIFE SAFETY	
ARCH	IITECTURE		
2	AM120	PLANS & EXTERIOR ELEVATIONS	
2	AM300	BUILDING & WALL SECTIONS	
2	AM500	EXTERIOR DETAILS	
4	AM600	SCHEDULES	
STRU	CTURAL		
1	SM001	GENERAL NOTES	
2	SM002	ABBREVIATIONS SCHEDULES & TABLES	
2	SM003	SCHEDULES & TABLES	
	SM004	C&C WIND DIAGRAMS AND TYPICAL DETAILS	
	SM005	TYPICAL DETAILS	
	SM100	SLAB AND FOUNDATION PLAN	
	SM110	SLAB AND FOUNDATION SECTIONS	
	SM200	ROOF FRAMING PLAN	
	SM201	LOW ROOF FRAMING	
	SM210	ROOF FRAMING SECTIONS	
	SM300	TRUSS ELEVATION	
MECH	HANICAL		
	MM001	MECHANICAL LEGEND, FLOORPLAN, AND SCHEDULES	¥ 1
PLUM	BING		130 1
	PM001	PLUMBING SYMBOLS, LEGEND, NOTES AND INDEX	BIRM TELE
FLECT	TRICAL		www
	EM000	ELECTRICAL LEGEND, ABBREVIATIONS, AND SHEET INDEX	COPYF
1	EM001	ELECTRICAL GENERAL NOTES	THIS ARCHIT
	EM100	MOBILITY HUB POWER FLOOR PLAN	REPRO OR IN P
	EM200	MOBILITY HUB LIGHTING FLOOR PLAN	FOR AN ARCHITE
	EM300	ELECTRICAL RISER DIAGRAM & SCHEDULES	TO ARC
	EM400	FIRE ALARM RISER, DETAILS, AND NOTES	
	EM401	LIGHTING CONTROLS, NOTES, AND SCHEDULES	<b>\</b>
	EM402	LIGHTING FIXTURE SCHEDULE	W
	EM500	ELECTRICAL DETAILS	Bu
	EM501	ELECTRICAL DETAILS	
ТЕСН	NOLOGY		30
	TM000	TECHNOLOGY LEGEND AND SHEET INDEX	Fa
	TM000	MOBILITY HUB TECHNOLOGY FLOOR PLAN	
	TM100	TECHNOLOGY DETAILS	p 2
	110000		

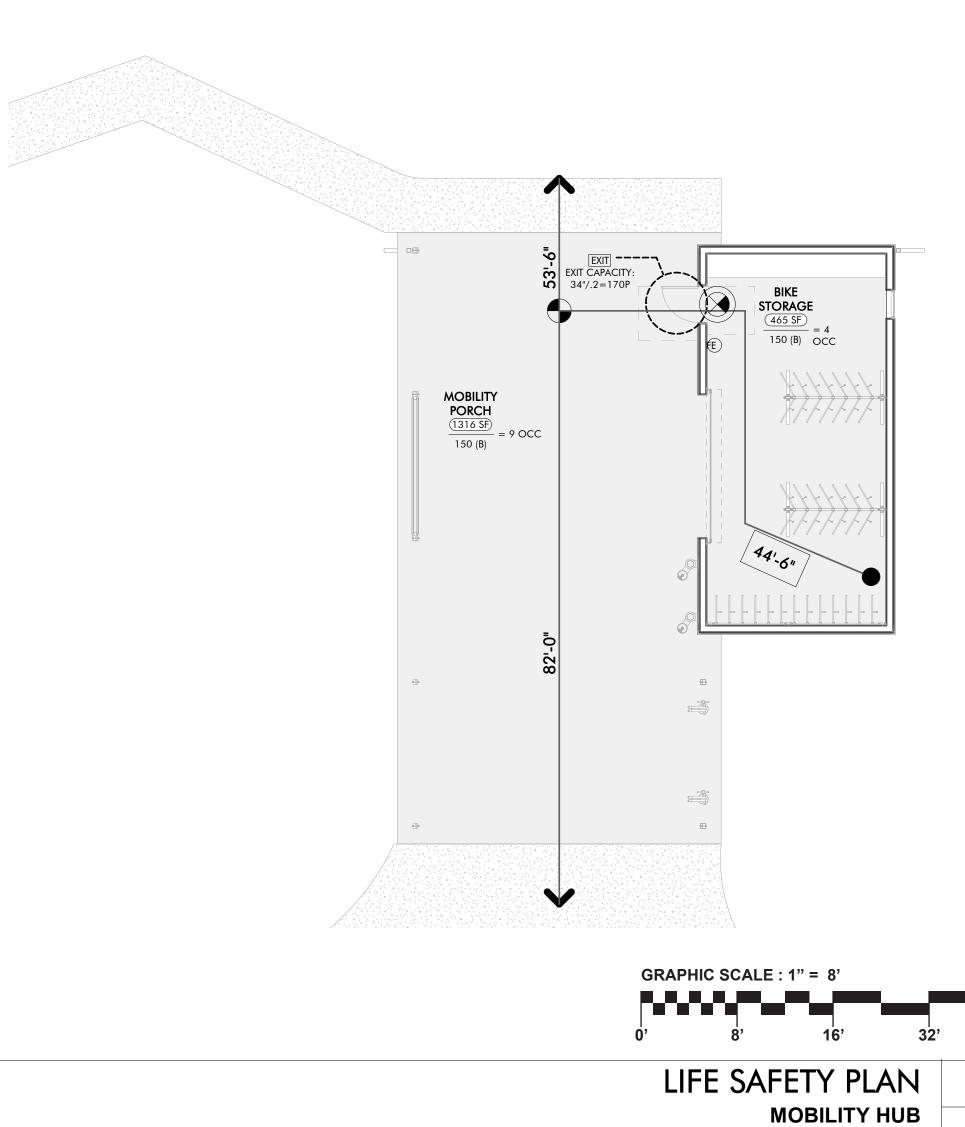
### BUILDING ENVELOPE

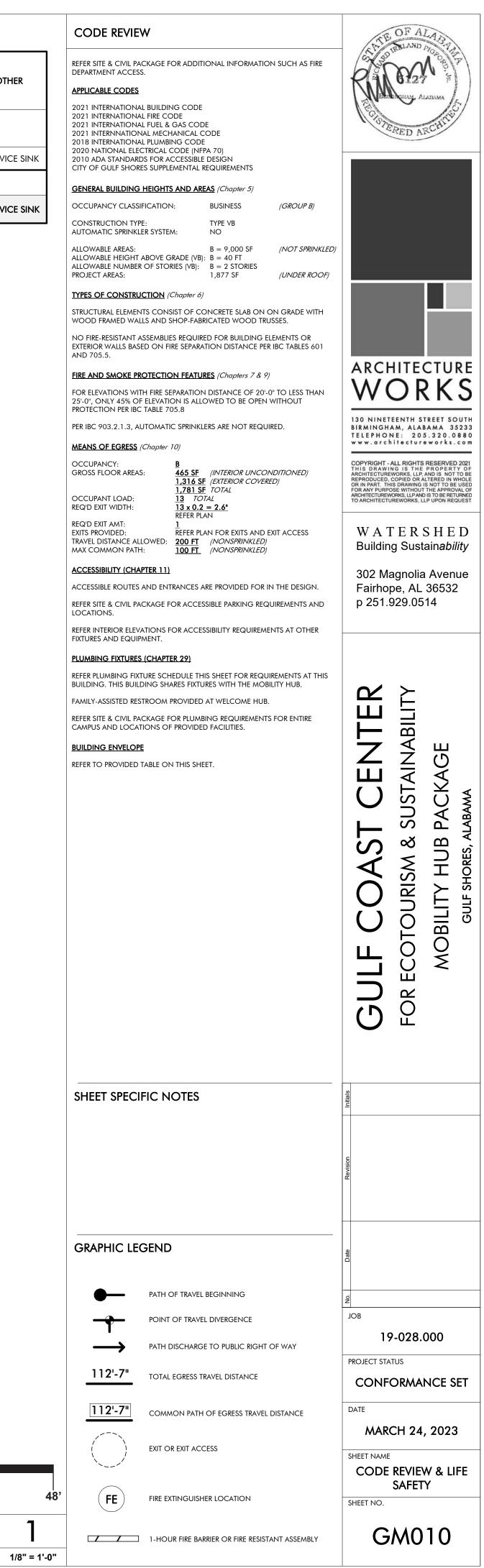
OPAQUE THERMAL ENVELOPE INSULATION COMPONENT MINIMUM REQUIREMENTS (IECC TABLE C402.1.3)

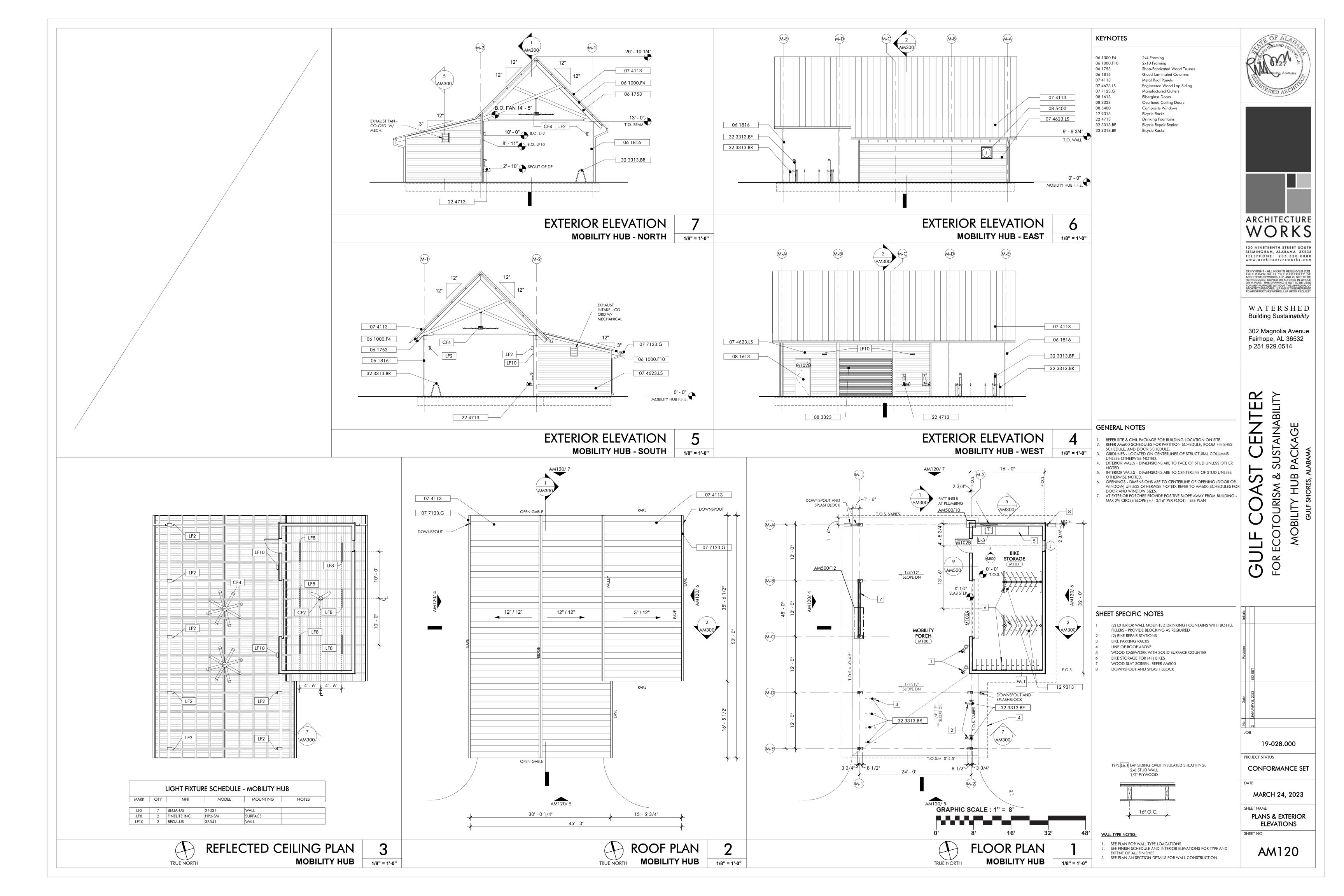
#### PLUMBING FIXTURE SCHEDULE (IBC TABLE 2902.1)

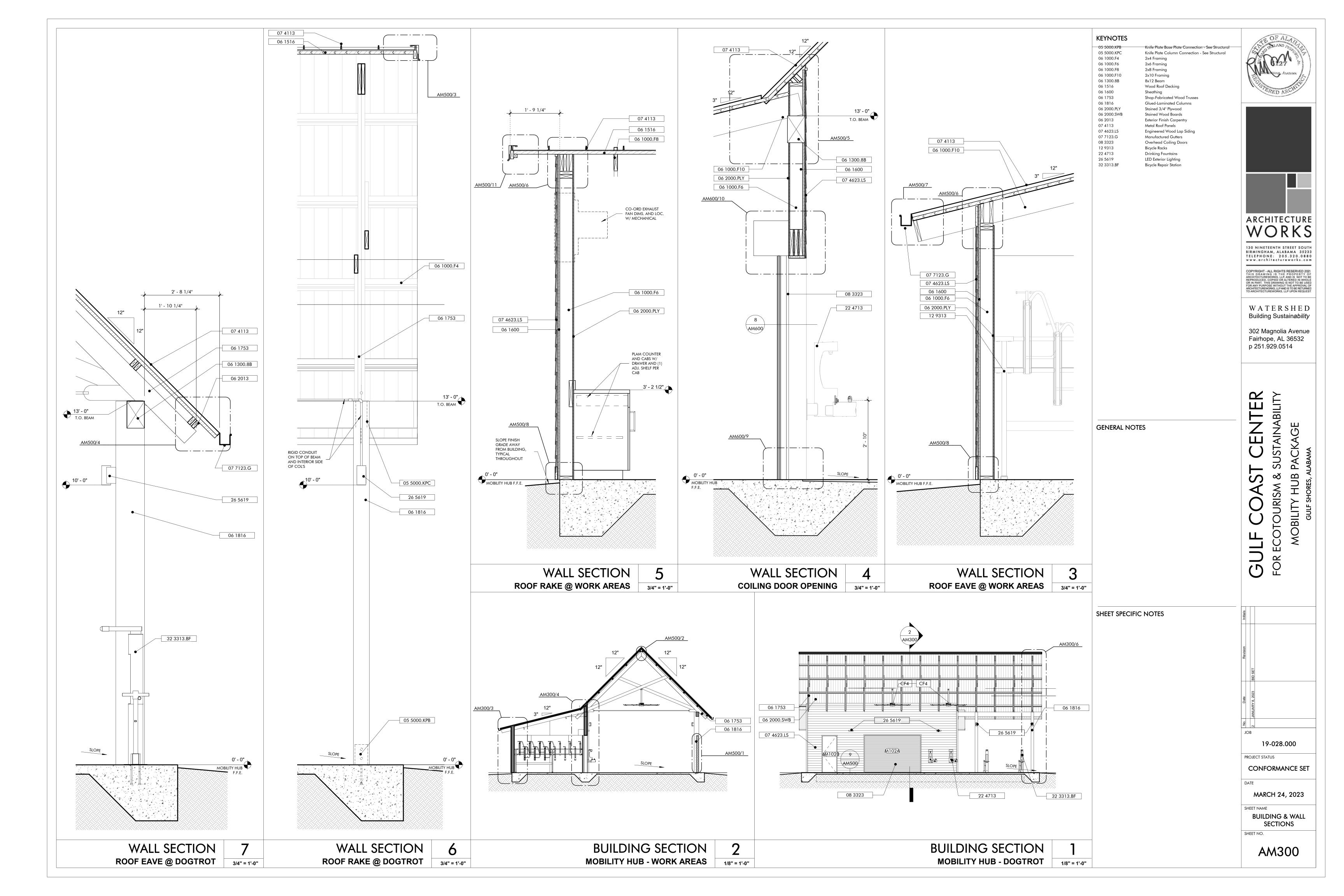
BUILDING ELEMENT	MIN. R-VALUE**	R-VALUE PROVIDED	CODE
WALLS - WOOD FRAMED	20	20	2015 IECC - TABLE C402.1.3
ROOF	38	39	2015 IECC - TABLE C402.1.3
FLOORS - SLAB ON GRADE	NOT REQUIRED	0	2015 IECC - TABLE C402.1.3
CLIMATE ZONE	2A,	BALDWIN COUNTY	2015 IECC - TABLE 301.1

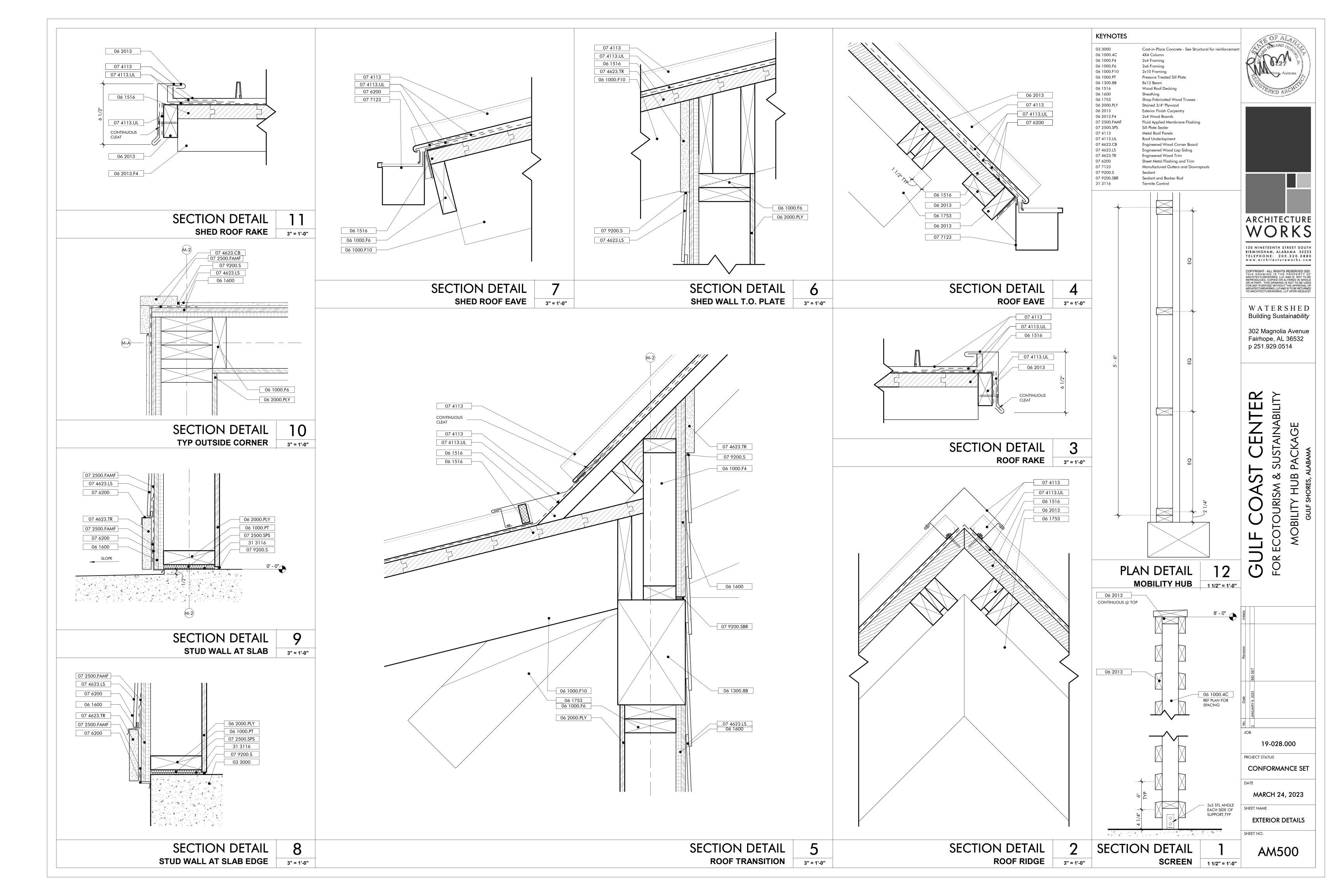
OCCUPANCY		WATER CLOSETS		LAVATORIES	DRINKING	
OCC CLASS	OCCUPANT LOADS	MALE	FEMALE	MALE/FEMALE EACH	FOUNTAIN	OTHER
B BUSINESS	13		IE FIRST 50 AND 1 PER REMAINDER	1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE	1 PER 100	
DOGINEDO		0.52	0.52	0.325 EACH	0.13	1 SERVICE SINK
TOTAL REQ'D	13	0.52	0.52	0.325 EACH	0.13	
TOTAL	PROVIDED	N/A	N/A	N/A	2	1 SERVICE SINK

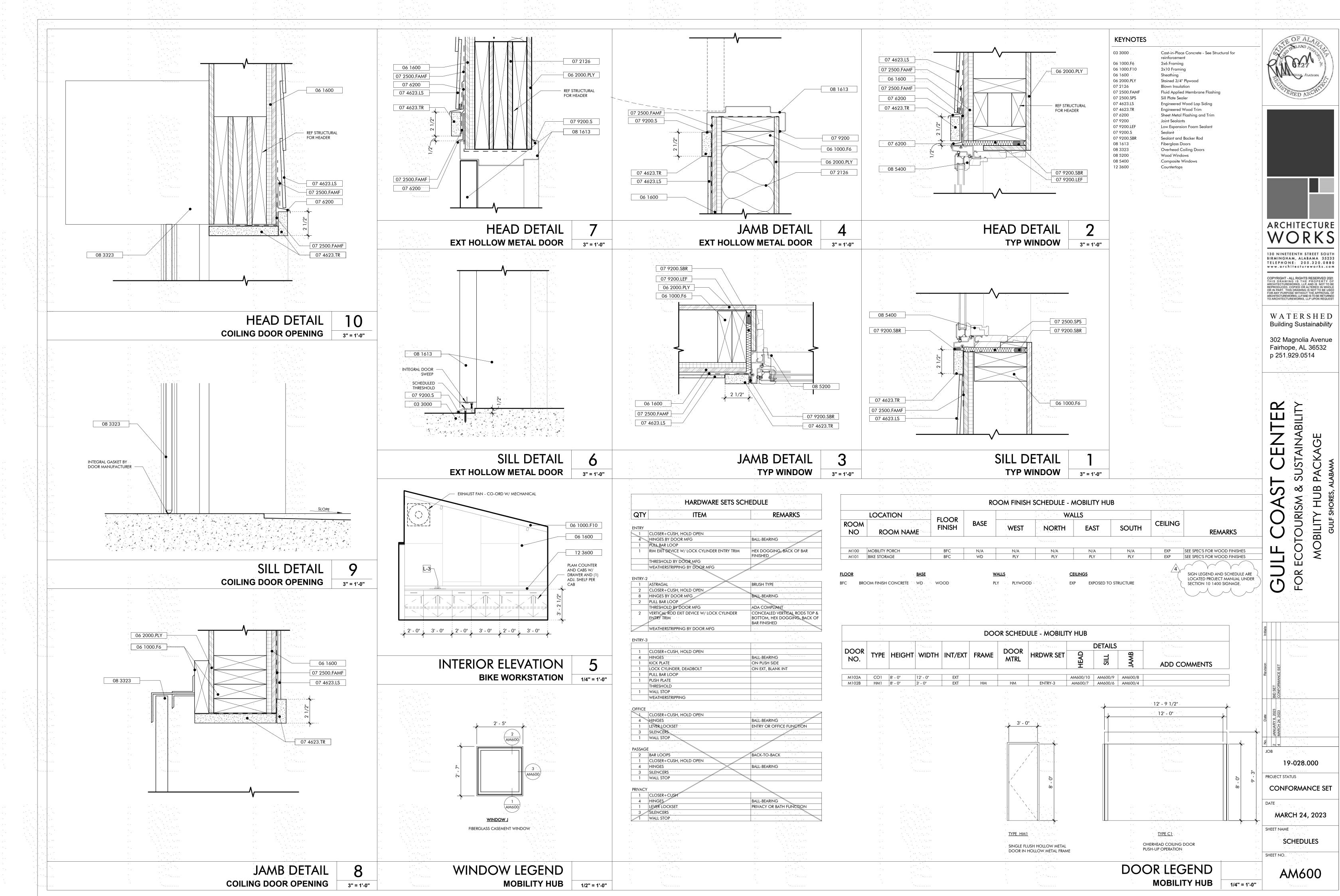












	ERAL REQUIREMENTS: THESE STRUCTURAL DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH
	THE INTERNATIONAL BUILDING CODE. ALL CONSTRUCTION SHALL CONFORM TO THE EDITION OF THE INTERNATIONAL BUILDING CODE REFERENCED. REFERENCE TO OTHER SPECIFICATIONS OR CODES SHALL MEAN THE VERSION INDICATED IN THE INTERNATIONAL BUILDING CODE.
	THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE A PORTION OF THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR AND SUBCONTRACTORS SHALL REFERENCE AND COORDINATE WITH ALL OTHER DISCIPLINES DRAWINGS. ANY DISCREPANCIES OR OMISSIONS SHALL BE REPORTED TO THE
	ARCHITECT/ENGINEER. THE CONTRACTOR SHALL VERIFY SITE CONDITIONS AND COORDINATE STRUCTURAL DIMENSIONS, ELEVATIONS AND SECTIONS WITH ARCHITECTURAL DIMENSIONS, ELEVATIONS, AND SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT/ENGINEER PRIOR TO THE FABRICATION OR INSTALLATION OF
	STRUCTURAL MEMBERS. STRUCTURAL DRAWINGS SHOW TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY AND SHALL APPLY FOR LIKE OR SIMILAR CONDITIONS UNLESS NOTED OTHERWISE. FOR CONDITIONS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS SIMILAR TO THOSE SHOWN. IF THERE IS A QUESTION REGARDING THE APPLICABILITY OF A DETAIL, CONTACT THE ARCHITECT/ENGINEER IN WRITING
	REQUESTING CLARIFICATION. COORDINATE AND VERIFY ALL OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND/OR ELECTRICAL DRAWINGS BEFORE PROCEEDING WITH CONSTRUCTION. STRUCTURAL DRAWINGS ONLY
	SHOW OPENINGS RELATIVE TO THE STRUCTURE. COORDINATE ALL LIMITS AND DEPTHS OF DEPRESSIONS FOR FLOOR FINISHES WITH ARCHITECTURAL DRAWINGS AND SCHEDULES. LIMITS SHOWN ON STRUCTURAL DRAWINGS ARE SCHEMATIC. COORDINATE FLOOR JOINTS WITH
	ARCHITECTURAL FLOOR FINISHES. STRUCTURAL MEMBERS SHALL NOT BE CUT, NOTCHED, CHANGED OR MODIFIED WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD. DO NOT SCALE FOR DIMENSIONS NOT SHOWN ON THE DRAWINGS. SEND A
	WRITTEN REQUEST FOR INFORMATION TO THE ARCHITECT/ENGINEER FOR DIMENSIONS NOT PROVIDED. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR THE MEANS,
	METHOD OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION. THE STRUCTURE SHOWN ON THESE DRAWINGS IS STRUCTURALLY SOUND ONLY IN ITS COMPLETED FORM. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. THE ENGINEER WILL NOT ADVISE ON OR ISSUE
	DIRECTION RELATED TO SAFETY REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE OSHA REGULATIONS. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS/ROOFS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT
	CONSTRUCTION LOADS DO NOT EXCEED THE DESIGN LIVE LOAD. WHERE SPECIFIED, POST INSTALLED ANCHORING SYSTEMS SUCH AS MANUFACTURED BY SIMPSON OR HILTI, SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. SPECIAL ATTENTION SHALL BE GIVEN TO THE DRILLING, CLEANING, AND PREPARATION OF
	HOLES. WHERE ADHESIVE ANCHORS ARE SHOWN, SPECIAL ATTENTION SHALL BE GIVEN TO THE REQUIRED MIXING, APPLICATION, AND CURING TIME OF THE ADHESIVE SPECIFIED. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES IN THE AREA OF CONSTRUCTION THAT MIGHT BE AFFECTED BY, OR
	OTHERWISE INTERFERE WITH, INSTALLATION OF NEW WORK. THIS INCLUDES THOSE THAT MIGHT BE DAMAGED BY NEW FOUNDATIONS OR OTHER WORK, AND THOSE WHOSE PRESENCE MIGHT LEAD DAMAGE TO THE NEW WORK (e.g. DIFFERENTIAL SETTLEMENT).
SI	<u>GN CRITERIA:</u>
	GENERAL BUILDING CODE: 1. INTERNATIONAL BUILDING CODE, IBC 2021 EDITION. ALL CODES BELOW ARE THE EDITION REFERENCED IN THE IBC.
	DESIGN LOAD CRITERIA: 1. MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, AMERICAN SOCIETY OF CIVIL ENGINEERS, ASCE 7. CONCRETE:
	<ol> <li>BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, AMERICAN CONCRETE INSTITUTE, ACI 318.</li> <li>STRUCTURAL STEEL:</li> <li>SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE</li> </ol>
	<ul> <li>OF STEEL CONSTRUCTION, AISC 360.</li> <li>TIMBER:</li> <li>1. NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, AMERICAN FOREST &amp; PAPER ASSOCIATION/AMERICAN WOOD COUNCIL, NDS.</li> </ul>
SI	GN LOADS:
.01	DESIGN DEAD LOAD IS ACTUAL WEIGHT OF THE STRUCTURE. ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS SHALL BE REPORTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOAD-CARRYING CAPACITY OF
	THE STRUCTURE. LIVE LOADS (PSF): 1. ROOF 20
	2.       STAIRS, EXIT WAYS       100         3.       FLOOR       100         LIVE LOAD REDUCTIONS HAVE BEEN APPLIED IN ACCORDANCE WITH THE
	BUILDING CODE WHEN PERMITTED. SNOW LOADS (PSF):
	1.         GROUND SNOW LOAD (Pg)         0.0           WIND LOADS:
	2.ALLOWABLE WIND SPEED (Vasd)124 MPH3.RISK CATEGORYII4.EXPOSURE CATEGORYC
	5.       PRESSURE COEFFICIENT (ENCLOSED)       +/- 0.18         6.       PRESSURE COEFFICIENT (PAR. ENCLOSED)       +/- 0.55         7.       PRESSURE COEFFICIENT (OPEN)       +/- 0.00
	SEE DRAWINGS FOR EXTERIOR COMPONENT AND CLADDING WIND PRESSURES, EDGE STRIP WIDTH "a", AND PRESURE COEFFICIENT USED. THIS STRUCTURE IS LOCATED WITHIN A WIND BORNE DEBRIS REGION AND
	THIS STRUCTURE IS LOCATED WITHIN A WIND BORNE DEBRIS REGION AND REQUIRES IMPACT RESISTANT GLAZING. SEISMIC LOADS: 1. <u>RISK CATEGORY</u> II 2. <u>NOODTANIOE FACTOR (In)</u>
	2.IMPORTANCE FACTOR (le)1.03.SOIL SITE CLASSD4.MAPPED SPECTRAL RESPONSE ACCELERATIONS: 1.Ss = 0.083
	2. S1 = 0.054 5. DESIGN SPECTRAL RESPONSE ACCELERATIONS: 1. Sds = 0.088 2. Sd1 = 0.087
	6.SEISMIC DESIGN CATEGORYB7.SEISMIC RESPONSE COEFFICIENT (Cs)0.0598.RESPONSE MODIFICATION FACTOR (R)1.5
	9. DESIGN BASE SHEAR 0.059W

**SPECIAL INSPECTIONS:** 

- SPECIAL INSPECTIONS ARE REQUIRED FOR TH THE REQUIREMENTS OF CHAPTER 17 OF THE IN APPROVED SPECIAL INSPECTOR WITH QUALIFIC BUILDING OFFICIAL SHALL PERFORM THE REQU INSPECTIONS.
- OBSERVATION BY THE STRUCTURAL ENGINEER TESTING AND INSPECTIONS BY THE TESTING A INSPECTOR.
- THE COSTS OF THE SPECIAL INSPECTOR'S SEF OWNER. THE COSTS OF OTHER INSPECTIONS
- CONTRACT DOCUMENTS SHALL BE PAID FOR E THE FOLLOWING DOCUMENTS HAVE BEEN PRE
- PART OF THESE CONSTRUCTION DOCUMENTS: STATEMENT OF SPECIAL INSPECTIONS SCHEDULE OF SPECIAL INSPECTIONS
- CONTRACTOR AND SUBCONTRACTORS ENGAG WIND FORCE OR SEISMIC FORCE RESISTING S STATEMENT OF RESPONSIBILITY TO THE BUILD ACCORDANCE WITH THE PROVISIONS OF CHAF THE CONTRACTOR SHALL COORDINATE THE IN
- ACCORDANCE WITH PROGRESS OF THE WORK PROVIDE SUFFICIENT NOTICE TO THE INSPECT SCHEDULING OF PERSONNEL. ALL REPORTS AND SHOP CERTIFICATIONS OF
- PERFORMED ON THE PREMISES OF A FABRICA TO THE CONTRACTOR. THE CONTRACTOR SHA DISTRIBUTING THESE REPORTS TO THE SPECI AND THE STRUCTURAL ENGINEER IN A TIMELY
- THE SPECIAL INSPECTOR SHALL PREPARE THE PLANS AND SUBMIT THE PLAN TO THE BUILDIN STRUCTURAL ENGINEER FOR APPROVAL PRIOF
- ALL SPECIAL INSPECTION REPORTS SHALL BE OF THE SPECIAL INSPECTOR AND ALL REPORT BUILDING OFFICIAL AND TO THE STRUCTURAL REPORTS SHALL BE AS AGREED UPON BY THE
- REPORTS SHALL INDICATE THAT THE WORK W 10 CONSTRUCTED IN ACCORDANCE WITH THE CO NONCONFORMING ITEMS SHALL BE BROUGHT THE CONTRACTOR FOR CORRECTION, THEN IF OFFICIAL, ARCHITECT, AND THE STRUCTURAL
- THE SPECIAL INSPECTOR, UPON COMPLETION ISSUANCE OF A CERTIFICATE OF OCCUPANCY. SEALED FINAL REPORT DOCUMENTING COMPL INSPECTIONS AND CORRECTION OF ANY DISCR

SHOP DRAWINGS AND SUBMITTALS:

- THE USE OR REPRODUCTION OF THE CONTRA CONTRACTOR, SUBCONTRACTOR, OR MATERIA PREPARATION OF SHOP DRAWINGS IS NOT PER SHOP DRAWINGS SHALL DETAIL ALL CONDITION SPECIFIED STANDARDS AND THE SPECIFIC REC
- INDICATED ON THE DRAWINGS. THE CONTRACTOR REMAINS SOLELY RESPONSE ASSOCIATED WITH THE PREPARATION OF SHO CONTRACT DOCUMENTS. ALL SHOP DRAWING APPROVED" BY THE CONTRACTOR PRIOR TO ENGINEER. REVIEW OF SHOP DRAWINGS AND
- STRUCTURAL ENGINEER DOES NOT RELIEVE T RESPONSIBILITIES. SHOP DRAWINGS AND CALCULATIONS SUBMIT
- DESIGN SHALL BE SIGNED AND SEALED BY A LIC OF THE PROJECT HARDCOPY SHOP DRAWING SUBMITTALS: SUB
- THREE PRINTS ONLY. ONE PRINT WILL BE RET PRINTS REQUIRED BY THE CONTRACTOR ARE CONTRACTOR AND SHALL BE MADE AFTER APP RETURNED. IF ADDITIONAL PRINTS ARE SUBM UNMARKED ELECTRONIC SHOP DRAWING SUBMITTALS: SU
- DRAWINGS IN PDF FORMAT. REVIEWED SHOP PDF FORMAT. ALL PRINTS REQUIRED BY THE ( **RESPONSIBILITY OF THE CONTRACTOR AND SH** SHOP DRAWINGS ARE RETURNED.
- RESUBMITTED SHOP DRAWINGS RESUBMIT ALL CHANGES SINCE THE PREVIOUS SUBMISSI OTHER CLEAR COMMUNICATION. RE-REVIEWE REVIEWED FOR IDENTIFIED CHANGES.
- SHOP DRAWINGS: SEE THE RELATED MATERIA SUBMITTALS AND SHOP DRAWINGS.

SOILS, SLABS, WALLS, AND SHALLOW FOU

- THE FOUNDATION AND SLAB ON GRADE DESIG ESTABLISHED IN THE GEOTECHNICAL REPORT "GULF COAST CENTER FOR ECOTOURISM AND NO.20-1101-0049, DATED MARCH 22, 2021". THE COPY OF THE GEOTECHNICAL REPORT FROM REQUIREMENTS AND RECOMMENDATIONS.
- MAX ALLOWABLE BEARING PER GEOTECHNICA 1. UNLESS NOTED OTHERWISE ALL FOUNDATION BEARING SURFACES SHALL E
- GEOTECHNICAL ENGINEER PRIOR TO PLACING COMPLIANCE WITH THE PRESSURES NOTED. T PROJECT SPECIFICATIONS, AND THE GEOTECH
- ALL FOOTING ELEVATIONS ARE ESTIMATED AN THE GEOTECHNICAL ENGINEER.
- COMPACTED FILL SHALL MEET THE REQUIREM REPORT WHEN EXCAVATIONS APPROACH THE GROUND
- SHALL BE LOWERED BY AN ACCEPTABLE DEWA WATER LEVEL IS MAINTAINED CONTINUOUSLY **EXCAVATION DURING CONSTRUCTION.**
- CONTRACTOR SHALL FOLLOW THE SITE WORK RECOMMENDATIONS PROVIDED IN THE GEOTE
- EARTH SUPPORTED SLAB: SUBGRADE MODULUS (SHORI
- PROVIDE 4" COMPACTED GRANULAR FILL BEN PROVIDE A 10 MIL MINIMUM VAPOR BARRIER BE OF GRANULAR FILL.
- 12 PROVIDE <sup>1</sup>/<sub>2</sub>" P.E.J FILLER AROUND PERIMETER VERTICAL SURFACES AND AT COLUMN ISOLATI
- SEE PROJECT SPECIFICATIONS FOR FLOOR FL REQUIREMENTS.
- SIDES OF FOUNDATIONS SHALL BE FORMED UN FORMING
- HORIZONTAL BARS IN FOOTINGS AND STEM WA PROVIDE CORNER BARS AT ALL INTERSECTION SUPPORT BOTTOM REINFORCING IN FOOTINGS PLASTIC CHAIRS SPACED A MAXIMUM OF 3'-0" E POSITIONED TO PROVIDE A MINIMUM OF 3" CLE REINFORCING BAR.
- CONSTRUCTION JOINTS IN CONTINUOUS FOOT WITH A CLASS B LAP IN HORIZONTAL REINFORC POUR A 2" MUD MAT OF LEAN CONCRETE IN TH
- EXCAVATION THAT WILL BE EXPOSED TO RAIN. ALL REINFORCING SHALL BE TIED IN PLACE PRI FOUNDATION PENETRATIONS SHALL BE SUBJE 20.
- STRUCTURAL ENGINEER. WHERE FOOTING STEPS ARE REQUIRED, THEY VERTICAL TO TWO HORIZONTAL.
- WHERE GRAVITY PLUMBING LINES OCCUR BEL FOOTING DOWN TO PROVIDE CLEARANCE. CC
- DRAWINGS FOR LOCATIONS, SIZES, AND INVER PREVENT SURFACE WATER AND GROUND WAT AND FROM PONDING ON PREPARED SUBGRAD
- EXCAVATED TRENCHES AS TEMPORARY DRAIN DEWATER EXCAVATIONS AND REMOVE ANY WE OF CONCRETE.
- IMMEDIATELY NOTIFY THE OWNERS REPRESEN SOIL CONDITIONS ARE FOUND.

	CONC	
IS PROJECT IN ACCORDANCE WITH	<u>CONC</u> 1.	<u>CRETE:</u> ALL CON
NTERNATIONAL BUILDING CODE. AN CATIONS SATISFACTORY TO THE	2.	STRUCT
JIRED SPECIAL TESTS AND		315 "DET
R'S OFFICE DOES NOT REPLACE	3.	THE COI
GENCY OR THE SPECIAL		1. 2.
RVICES SHALL BE PAID FOR BY THE AND TESTING SPECIFIED IN THE	4.	CONTRA REINFOI
BY THE CONTRACTOR. EPARED FOR THIS PROJECT AS A		STRUCT
:		SHALL C
		STEEL IN
GED IN CONSTRUCTION OF MAIN YSTEMS SHALL SUBMIT A	5.	REPROE A QUALI
DING OFFICIAL AND OWNER IN PTER 17 OF THE IBC.	0.	INSPEC
ISPECTION SERVICES IN		
K. THE CONTRACTOR SHALL OR TO ALLOW PROPER	6.	CONFOR THE PRO
SPECIAL INSPECTIONS TO BE		REVIEW OBTAINI
TOR'S SHOP SHALL BE SUBMITTED ALL BE RESPONSIBLE FOR	7.	REINFO
AL INSPECTOR, THE ARCHITECT,	8.	RECYCL
MANNER. E REQUIRED QUALITY ASSURANCE		CONTAII GREATE
G OFFICIAL AND TO THE R TO CONSTRUCTION.	9.	IN FLAT SEE COI
PREPARED BY AND BEAR THE SEAL S SHALL BE SUBMITTED TO THE	10.	PROPER USE OF
ENGINEER. THE FREQUENCY OF		NOT PE
BUILDING OFFICIAL. AS PERFORMED AND	11. 12.	ALL EXP CONSTF
NTRACT DOCUMENTS. ALL TO THE IMMEDIATE ATTENTION OF	13.	ANY STO HORIZO
UNCORRECTED, TO THE BUILDING ENGINEER.		CONSTR
OF THE WORK AND PRIOR TO THE		SHALL B DOCUM
SHALL SUBMIT A SIGNED AND ETION OF ALL REQUIRED SPECIAL	14.	EARTH S MID-DEF
REPANCIES IN THE PRIOR REPORTS.	15.	COAT AI
		WITH AD
CT DRAWINGS BY ANY	16.	CEMENT SLAB JC
AL SUPPLIER IN LIEU OF		PLACE A
RMITTED. NS IN ACCORDANCE WITH		FILL IN A
QUIREMENTS OF THIS PROJECT AS	47	MOLDED
SIBLE FOR ERRORS AND OMISSIONS P DRAWINGS AS SPECIFIED IN THE	17.	SEE ARO DRAINS.
S MUST BE REVIEWED AND	18.	REFER T
SUBMITTAL TO THE STRUCTURAL OTHER SUBMITTALS BY THE		BE RESP
HE CONTRACTOR OF THEIR	19.	SEE CO
TED AS PART OF A DELEGATED ICENSED ENGINEER IN THE STATE	20.	REINFOI MANUAL
		BUILDIN SAND-BI
BMIT ALL SHOP DRAWINGS ON URNED TO THE CONTRACTOR. ALL	21.	STEEL. ALL SPL
THE RESPONSIBILITY OF THE PROVED SHOP DRAWINGS ARE	22.	OTHERV
ITTED, THEY WILL BE RETURNED	22.	PLACINO
		REINFOI ACTIVITI
DRAWINGS WILL BE RETURNED IN CONTRACTOR ARE THE	23.	ADDITIO OPENIN
HALL BE MADE AFTER APPROVED	24. 25.	HOOKS FIELD BI
ED SHOP DRAWINGS SHALL HAVE ON IDENTIFIED BY CLOUDING OR	20.	BARS LA
D SHOP DRAWINGS WILL ONLY BE		
AL SECTION FOR THE REQUIRED	<u>STRU</u>	CTURA
	1.	FABRICA
UNDATIONS:	2.	THE CON
N IS BASED ON CRITERIA		CONNEC
BY THOMPSON ENGINEERING TITLED SUSTAINABILITY PROJECT, PROJECT	3.	1. STRUCT
CONTRACTOR SHALL OBTAIN A THE OWNER AND FOLLOW ALL	4.	1. A
	5. 6.	STEEL P
L REPORT (PSF): 2000	0.	ALL SHC
BE REVIEWED BY THE CONCRETE TO ENSURE THEIR	7.	ACCORE HEADED
HE REQUIREMENTS OF THE INICAL REPORT.	8.	HEX NUT
D MAY BE ADJUSTED IN THE FIELD BY	9.	OR REP
ENTS NOTED IN THE GEOTECHNICAL	5.	"SPECIF
WATER TABLE, THE WATER LEVEL	10.	USE SNI ALL EXT
ATERING SYSTEM SO THAT THE A MINIMUM OF 2' BELOW THE		SHALL B SANDBL
AND SUBGRADE		GALVAN HEX NU
CHNICAL REPORT.	11.	ALL STE
<u>-ONG) 100/35 PCI</u>	MAG	יעסאר
EATH ALL EARTH SUPPORTED SLABS. ETWEEN BOTTOM OF SLAB AND TOP	<u>IVIAS(</u> 1.	<u>DNRY:</u> MASONI
OF SLABS WHERE THEY ABUT		MASON
ION JOINTS AS DETAILED.	2. 3.	THE CO
ATNESS AND FLOOR LEVELNESS		BELOW 1.
NLESS CONDITIONS PERMIT EARTH	4.	2. THE CO
ALLS SHALL BE CONTINUOUS. IS UNLESS NOTED OTHERWISE.		SHOP D
S WITH CONCRETE BRICKS OR		UNITS V
EACH WAY. SUPPORTS SHALL BE EAR TO BOTTOM OF LOWEST	5.	DETERN PROVID
INGS SHALL BE FORMED VERTICALLY	6.	ASTM C PROVID
CING. IE BOTTOM OF A FOOTING		OTHER
	7.	AGGRE
IOR TO PLACING CONCRETE. ICT TO APPROVAL BY THE		AT 28 D/ WITH TH
SHALL BE NO STEEPER THAN ONE	8.	MASON PLACEM
OW TOP OF WALL FOOTING, STEP	9. 10.	
ORDINATE WITH PLUMBING		PROPER
RTS. FER FROM ENTERING EXCAVATIONS	11.	WHEN L GROUTI
ES AND SLABS. DO NOT USE JAGE DITCHES.		COURSI THORO
ET MATERIAL PRIOR TO THE PLACING	12.	PROVID
NTATIVE AND ENGINEER IF UNUSUAL		HEIGHT
		ARCHIT REINFO
	13.	ADEQU/

#### DETAIL CONCRETE REINFORCEMENT AND ACCESSORIES IN ACCORDANCE WITH ACI 315 "DETAILING MANUAL" THE CONTRACTOR SHALL SUBMIT FOR THE STRUCTURAL ENGINEER'S REVIEW SHOP DRAWINGS FOR THE FOLLOWING ITEMS. CONCRETE MIX DESIGNS (40% FLY ASH) CONCRETE REINFORCING (100% RECYCLED CONTENT) CONTRACTOR SHALL NOT FABRICATE OR PLACE REINFORCEMENT UNTIL REINFORCEMENT SHOP DRAWINGS, REVIEWED AND STAMPED BY THE STRUCTURAL ENGINEER, ARE RECEIVED ON THE JOB SITE. SHOP DRAWINGS SHALL CONSIST OF BOTH "CUT" AND PLACEMENT SHEETS. PLACEMENT SHEETS SHALL CONTAIN ALL INFORMATION NECESSARY TO POSITION ALL REINFORCING STEEL IN THE FIELD WITHOUT HAVING TO REFER TO THE STRUCTURAL DRAWINGS. ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL NOT BE COPIED OR REPRODUCED FOR USE AS SHOP DRAWINGS. A QUALITY ASSURANCE PROGRAM CONSISTING OF SUBMITTALS, TESTING, AND INSPECTIONS SHALL BE USED TO VERIFY THAT CONSTRUCTION IS IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. MATERIAL QUALITY, HANDLING, STORAGE, PREPARATION, PLACEMENT, AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE CODE. THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE OWNER'S TESTING LABORATORY. RESPONSIBILITY FOR OBTAINING THE REQUIRED CONCRETE DESIGN STRENGTH IS THE CONTRACTOR'S. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60 AND CONTAIN 100% RECYCLED CONTENT. WELDED WIRE REINFORCEMENT (WWR) SHALL CONFORM TO ASTM A1064 AND CONTAIN 100% RECYCLED CONTENT. MINIMUM LAP AND EMBEDMENT TO BE THE GREATER OF ONE CROSS WIRE SPACING PLUS 2" OR 8". WWR SHALL BE SUPPLIED IN FLAT SHEETS (NOT ROLLS). SEE CONCRETE MIX DESIGN SCHEDULE FOR REQUIRED CONCRETE STRENGTH AND PROPERTIES. CONCRETE DESIGN SHALL INCLUDE 40% FLY ASH. USE OF CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS IN CONCRETE IS NOT PERMITTED. ALL EXPOSED CONCRETE EDGES SHALL HAVE A 3/4 INCH CHAMFER. CONSTRUCTION JOINTS IN A HORIZONTAL PLANE ARE NOT PERMITTED ANY STOP IN CONCRETE WORK MUST BE MADE WITH VERTICAL BULKHEADS AND HORIZONTAL KEYS. MAKE ALL REINFORCING CONTINUOUS THROUGH CONSTRUCTION JOINTS. CONTROL JOINTS FOR CONCRETE SLABS ON GRADE SHALL BE AS DETAILED AND LOCATED AS SHOWN IN THE CONSTRUCTION DOCUMENTS. EARTH SUPPORTED SLABS: 4" THICK, REINFORCED WITH 4X4 W2.9/W2.9 WWR AT MID-DEPTH OF SLAB, UNLESS NOTED OTHERWISE. COAT ALL SLABS WITH CURING COMPOUND WITHIN 24 HOURS OF PLACING. PRODUCT USED SHALL CONFORM WITH ASTM C309, AND SHALL BE COMPATIBLE WITH ADHERED FINISHES. A DISSIPATING FORMULATION SHALL BE USED AT CEMENTITIOUS FINISHES. SLAB JOINTS SHALL BE FILLED WITH AN APPROVED MATERIAL. THIS SHOULD TAKE PLACE AS LATE AS POSSIBLE, PREFERABLY 4 TO 6 WEEKS AFTER THE SLAB HAS BEEN CAST. PRIOR TO FILLING, REMOVE ALL DEBRIS FROM THE SLAB JOINTS, THEN FILL IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AS FOLLOWS: 6" SLABS FILL WITH EPOXY RESIN, OTHER SLABS FILL WITH FIELD MOLDED OR ELECTROMETRIC SEALANT SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF DEPRESSED SLABS AND DRAINS. SLOPE SLAB TO DRAINS WHERE SHOWN. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND VENDOR DRAWINGS FOR SLEEVES, EMBEDDED ITEMS, ACCESSORIES, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND PLACING ALL SLEEVES, EMBEDDED ITEMS, ACCESSORIES, ETC. SEE CONCRETE COVER SCHEDULE FOR REQUIRED STEEL COVERAGE. REINFORCING BAR PLACING ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE. WHERE CONCRETE IS EXPOSED IN FINISHED BUILDING, PROVIDE ACCESSORIES WITH RUSTPROOF LEGS. WHERE CONCRETE IS SAND-BLASTED OR BUSH-HAMMERED, PROVIDE ACCESSORIES OF STAINLESS STEEL ALL SPLICES SHALL BE CLASS "B" TENSION LAP SPLICE, UNLESS NOTED OTHERWISE TIE ALL REINFORCING STEEL AND EMBEDMENT'S SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN POSITION OF REINFORCEMENT WITHIN SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES. "STICKING" DOWELS INTO WET CONCRETE IS NOT PERMITTED. ADDITIONAL REINFORCING AND THE QUANTITY OF REINFORCING OCCURRING AT OPENINGS SHALL BE PLACED EQUALLY EACH SIDE OF OPENINGS AS DETAILED. HOOKS IN REINFORCING ARE IN ADDITION TO LENGTH SHOWN. FIELD BENDING OF BARS LARGER THAN #4 IS NOT PERMITTED. ALL BENDS FOR BARS LARGER THAN #4 SHALL BE SHOP MADE COLD BENDS TRUCTURAL STEEL: FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES". THE CONTRACTOR SHALL SUBMIT FOR THE STRUCTURAL ENGINEER'S REVIEW SHOP DRAWINGS WHICH INCLUDE ERECTION DRAWINGS. MATERIALS. CONNECTIONS, FABRICATION, AND ALL DETAILS FOR THE FOLLOWING ITEMS. STRUCTURAL STEEL STRUCTURAL STEEL: ASTM A36 FOR ALL STEEL HOLLOW STRUCTURAL SECTIONS: ASTM A500, GRADE C. STEEL PIPE: ASTM A53, TYPE E OR S, GRADE B. WELDED CONNECTIONS: E70XX ELECTRODES, MINIMUM SIZE FILLET WELD 3/16". ALL SHOP AND FIELD WELDING SHALL BE BY A CERTIFIED WELDER AND IN ACCORDANCE WITH AMERICAN WELDING SOCIETY D1.1 SPECIFICATION. HEADED ANCHOR RODS: ASTM F1554, GRADE 55, WELDABLE ANCHOR AND HEAVY HEX NUT, UNLESS INDICATED OTHERWISE. ENGINEER SHALL BE CONTACTED FOR APPROVAL OF ANY FIELD MODIFICATIONS OR REPAIRS OF ANCHOR BOLTS OR RODS, AND COLUMN BASE PLATES. BOLTED CONNECTIONS: BEARING TYPE A325-N IN ACCORDANCE WITH AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". USE SNUG TIGHT BEARING CONNECTIONS FOR ALL BOLTED CONNECTIONS. ALL EXTERIOR ELEMENTS AND THOSE ELEMENTS NOTED TO BE GALVANIZED SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123 AFTER SANDBLAST CLEANING PER SSPC-SP10. USE ASTM A325 BOLTS HOT DIPPED GALVANIZED WITH GALVANIZED HARDENED WASHERS AND GALVANIZED HEAVY HEX NUTS FOR BOLTING OF GALVANIZED ITEMS. ALL STEEL BELOW GRADE SHALL HAVE A MINIMUM 3" CONCRETE COVER. MASONRY: MASONRY CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THE MASONRY SOCIETY AND THE AMERICAN CONCRETE INSTITUTE. ALL MASONRY SHALL BE RUNNING BOND, UNLESS NOTED OTHERWISE THE CONTRACTOR SHALL SUBMIT FOR THE STRUCTURAL ENGINEER'S REVIEW THE BELOW LISTED ITEMS. MORTAR MATERIALS CERTIFICATES AND MIX DESIGN GROUT MATERIALS CERTIFICATES AND MIX DESIGN THE CONTRACTOR SHALL SUBMIT FOR THE STRUCTURAL ENGINEER'S REVIEW SHOP DRAWINGS SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING REINFORCING STEEL AND ACCESSORIES. PROVIDE CONCRETE MASONRY UNITS WITH A MINIMUM COMPRESSIVE STRENGTH OF f'm = 2500 PSI, AS DETERMINED IN ACCORDANCE WITH ASTM C140. PROVIDE HOLLOW, LOAD BEARING CONCRETE MASONRY UNITS CONFORMING TO ASTM C90 PROVIDE TYPE "S" MORTAR IN ACCORDANCE WITH ASTM C270, UNLESS NOTED OTHERWISE COURSE MASONRY GROUT SHALL CONFORM TO ASTM C476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8". MINIMUM COMPRESSIVE STRENGTH SHALL BE 2500 PSI AT 28 DAYS. STOP GROUT 2" SHORT OF TOP BED JOINT TO CREATE A SHEAR KEY WITH THE NEXT LIFT. MASONRY GROUT SHALL BE MECHANICALLY CONSOLIDATED AT THE TIME OF PLACEMENT AND THEN RECONSOLIDATED WITHIN 45 MINUTES. DEFORMED REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60. ALL REINFORCING IN MASONRY WALLS SHALL BE FULLY ENCLOSED WITH PROPERLY CONSOLIDATED GROUT. WHEN LAYING BLOCK MORE THAN FIVE FEET FOUR INCHES VERTICAL PRIOR TO GROUTING (HIGH LIFT), PROVIDE A 4"X4" CLEAN OUT OPENING AT THE BOTTOM COURSE OF EACH LIFT AT EACH REINFORCED CELL. CELLS SHALL BE THOROUGHLY CLEANED PRIOR TO GROUTING. SEAL OPENING DURING GROUTING. PROVIDE 9 GA. GALVANIZED LADDER TYPE HORIZONTAL JOINT REINFORCEMENT COMPLYING WITH ASTM A82 OR ASTM A951 AT 16" OC VERTICALLY FOR FULL WALL HEIGHT. LAP 6" MINIMUM AND PROVIDE PREFAB CORNERS AND TEES. SEE ARCHITECTURAL FOR BRICK TIES FABRICATED INTEGRAL WITH JOINT REINFORCING, IF REQUIRED ADEQUATE TEMPORARY BRACING OF CMU WALLS MUST BE PROVIDED BY THE CONTRACTOR UNTIL REQUIRED CONNECTIONS OR ELEMENTS ARE IN PLACE TO PROVIDE ADEQUATE LATERAL STABILITY TO THE WALL

ALL CONCRETING OPERATIONS SHALL COMPLY WITH ACI 301, "SPECIFICATIONS FOR

STRUCTURAL CONCRETE FOR BUILDINGS".

#### W

WOO	D FRAMING:
1.	WOOD CONSTRUCTION SHALL
1.	CODE AND THE AMERICAN WO
2.	A QUALITY ASSURANCE PROG
۷.	INSPECTIONS SHALL BE USED
	CONFORMANCE WITH THE CO
	HANDLING, STORAGE, PREPA
	CONFORM TO THE REQUIREM
3.	WOOD FRAMING MEMBERS: \
-	PINE.
4.	TRUSSES SPANNING GREATE
	DIMENSIONED #1 SOUTHERN
5.	SILL PLATES, SOLE PLATES AN
	STUDS TO WHICH THEY ARE (
	ABOVE.
6.	ALL PRESSURE TREATED LUM
	COPPER QUATERNARY (ACQ)
	ACCORDANCE WITH AMERICA
	STANDARD.
7.	PRESERVATIVE RETENTION:
	1. 0.60 LBS/FT3 PERMAN
	2. 0.40 LBS/FT3 GROUND
	3. 0.25 LBS/FT3 ABOVE G
8.	ALL FASTENERS, NAILS AND C
	TREATED LUMBER SHALL BE I
	RECOMMENDED BY THE PRES
	LUMBER SHALL NOT BE IN DIF
9.	DIMENSIONED LUMBER FLOO
	AT ENDS, POINTS OF BEARING
	BLOCKING, BRIDGING, OR TRA
	ROTATION.
10.	ALL MANUFACTURED WOOD F
	TIE COMPANY, INC. OR APPRO
	FASTENED TO FRAMING MEM
	CONNECTOR HOLES WITH TH
	MANUFACTURER.
11.	FLOOR SHEATHING: 3/4" TON
	FLOOR RATED SHEATHING, EX
	LONG DIMENSION OF PANEL F
	STAGGERED.
12.	FLOOR SHEATHING NAILING, U
	COMMON NAILS AT 6 INCHES
	ENDS AND INTERMEDIATE SU
13.	ROOF SHEATHING (TYPICAL):
	SHEATHING, EXPOSURE I. PAN
	OF PANEL PERPENDICULAR T
14.	ROOF SHEATHING (WELCOME
	RATED SHEATHING, EXPOSUR
	DIMENSION OF PANEL PERPE
	STAGGERED.
15.	ROOF SHEATHING NAILING, U
	COMMON NAILS AT 6 INCHES
	PANEL EDGES AND 12 INCHES
16.	TONGUE AND GROOVE ROOF
	PINE NO. 1 GRADE SOLID TIME
	TWO SPAN MINIMUM WITH EN
17.	TONGUE AND GROOVE ROOF
	WITH THREE 16D COMMON NA
	NAILED.
18.	SHEAR WALL SHEATHING: 15/

BACKED WITH TWO-INCH NOMINAL OR WIDER FRAMING. 19. 20. OTHERWISE 21.

- APPEARANCE. 23.
- 24.

#### <u> BENDING (Fb)</u> ENSION (Ft) COMP PARALLEL TO (

COMP PERPEND TO SHEAR PARALLEL MODULUS OF ELAST

### SHOP FABRICATED WOOD TRUSSES

- PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED.
- REQUIREMENTS OF THE CODE.
- STRUCTURE
- 5 LOADS (PSF): ROO TOP CHORD DEAD LOAD TO THE TOP CHORD.
- WITH THE BUILDING CODE.
- CONTRACTOR
- MANUFACTURER'S ERECTION PLANS.
- MANUFACTURER

. COMPLY WITH THE INTERNATIONAL BUILDING OOD COUNCIL REQUIREMENTS. GRAM CONSISTING OF SUBMITTALS AND TO VERIFY THAT THE CONSTRUCTED WOOD IS IN

ONTRACT DOCUMENTS. MATERIAL QUALITY, ARATION, PLACEMENT, AND CONSTRUCTION SHALL MENTS OF THE CODE. VISUALLY GRADED DIMENSIONED #2 SOUTHERN

ER THAN TWENTY-FOUR FEET: VISUALLY GRADED

ND TOP PLATES SHALL BE OF THE SAME SIZE AS THE CONNECTED. GRADE SHALL BE AS SPECIFIED

MBER SHALL BE PRESSURE TREATED WITH ALKALINE ) OR MICRONIZED COPPER AZOLE (MCA) IN AN WOOD PROTECTION ASSOCIATION (AWPA)

IENT WOOD FOUNDATIONS CONTACT

GROUND OTHER METAL PRODUCTS USED WITH PRESSURE HOT-DIP GALVANIZED, STAINLESS STEEL, OR AS

SERVATIVE MANUFACTURER. PRESSURE TREATED RECT CONTACT WITH ALUMINUM PRODUCTS. R JOISTS AND BEAMS SHALL BE LATERALLY BRACED G AND MAXIMUM INTERVALS OF 8'-0" BY SOLID ANSVERSE BEAMS IN ORDER TO PREVENT

FRAMING CONNECTORS TO BE BY SIMPSON STRONG-OVED EQUAL. ALL CONNECTORS SHALL BE IBERS FILLING THE REQUIRED NUMBER OF IE TYPE AND SIZE FASTENERS SPECIFIED BY THE

IGUE & GROOVE PLYWOOD OR OSB, APA SINGLE XPOSURE 1. PANEL IDENTIFICATION INDEX 48/24. PERPENDICULAR TO SUPPORTS WITH JOINTS

UNLESS NOTED: 10D HOT-DIPPED GALVANIZED S AT DIAPHRAGM BOUNDARIES, 8 INCHES AT PANEL JPPORTS.

15/32" PLYWOOD OR OSB. APA STRUCTURAL I RATED NEL IDENTIFICATION INDEX 32/16. LONG DIMENSION TO TONGUE AND GROOVE WITH JOINTS STAGGERED. EHUB): 23/32" PLYWOOD OR OSB, APA STRUCTURAL I IRE I. PANEL IDENTIFICATION INDEX 32/16. LONG ENDICULAR TO TONGUE AND GROOVE WITH JOINTS

JNLESS NOTED: 16D HOT-DIPPED GALVANIZED AT DIAPHRAGM BOUNDARIES, 6 INCHES AT ALL FOUR S AT INTERMEDIATE SUPPORTS. DECKING: PRESSURE TREATED 2X6 T&G SOUTHERN BER DECKING WITH TONGUE INSTALLED UP-SLOPE. ND JOINT SPACING A MINIMUM OF FOUR FEET. DECKING NAILING: ATTACH AT EACH SUPPORT AILS, ONE THROUGH THE TONGUE AND TWO FACE

5/32" PLYWOOD OR OSB, APA STRUCTURAL I RATED SHEATHING, EXPOSURE 1. PANEL IDENTIFICATION INDEX 32/16. LONG DIMENSION OF PANEL PARALLEL OR PERPENDICULAR TO STUDS. ALL PLYWOOD EDGES

SHEAR WALL SHEATHING NAILING, UNLESS NOTED: 10D HOT-DIPPED GALVANIZED COMMON NAILS AT 4 INCHES AT SHEAR WALL BOUNDARIES, 4 INCHES AT ALL FOUR PANEL EDGES AND 12 INCHES AT INTERMEDIATE MEMBERS. GLUED LAMINATED TIMBER SHALL BE SOUTHERN YELLOW PINE, UNLESS NOTED

GLUED LAMINATED TIMBER SHALL CONFORM TO THE REQUIREMENTS OF THE "STRUCTURAL GLUED LAMINATED TIMBER," AMERICAN INSTITUTE OF TIMBER CONSTRUCTION, AITC A190.1 AND "STANDARD APPEARANCE GRADES FOR STRUCTURAL GLUED LAMINATED TIMBER," AITC 110, ARCHITECTURAL

USE WET-USE (WATERPROOF) ADHESIVES FOR ALL GLUED LAMINATED TIMBER. ALL PRESSURE TREATED GLUED LAMINATED TIMBER FRAMING SHALL BE PRESSURE TREATED WITH PENTACHLOROPHENOL IN MINERAL SPIRITS IN ACCORDANCE WITH AITC 109 "STANDARD FOR PRESERVATIVE TREATMENT O STRUCTURAL GLUED-LAMINATED TIMBER." ALL TREATED GLUED LAMINATED TIMBER SHALL BE SEALED WITH 2 COATS OF URETHANE FURNISHED BY THE GLUED LAMINATED SUPPLIER AND APPLIED BY THE CONTRACTOR. GLUE LAMINATED TIMBER STRESS GRADES SHALL PROVIDE THE FOLLOWING MINIMUM PROPERTIES (PSI) FOR BENDING ABOUT THE X-X AXIS: DRY USE WET USE 2400 1900

	1100	880
GRAIN (Fc PAR)	1350	985
BRAIN (Fc PER)	560	295
GRAIN (Fv)	200	175
CITY (E)	1,700,000	1,400,000

DESIGN, FABRICATE, AND ERECT SHOP FABRICATED WOOD TRUSSES IN ACCORDANCE WITH THE "DESIGN SPECIFICATION FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES" OF THE TRUSS PLATE INSTITUTE. THE CONTRACTOR SHALL SUBMIT FOR THE STRUCTURAL ENGINEER'S RECORD ERECTION PLANS, TRUSS CALCULATIONS, AND CONNECTION CALCULATIONS, AS DESIGNED BY THE CONTRACTOR. CALCULATIONS SHALL BEAR THE SEAL OF A

A QUALITY ASSURANCE PROGRAM CONSISTING OF SUBMITTALS AND INSPECTIONS SHALL BE USED TO VERIFY THAT THE CONSTRUCTED WOOD IS IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. MATERIAL QUALITY, HANDLING, STORAGE, PREPARATION, PLACEMENT, AND CONSTRUCTION SHALL CONFORM TO THE

THE WOOD TRUSS SYSTEM ENGINEER SHALL DESIGN THE COMPLETE TRUSS SYSTEM. THE TRUSS SYSTEM IS AN ASSEMBLAGE OF TRUSSES AND TRUSS GIRDERS, TOGETHER WITH ALL BRACING, CONNECTIONS AND OTHER STRUCTURAL ELEMENTS AND ALL SPACING AND LOCATION CRITERIA, THAT, IN COMBINATION, FUNCTION TO SUPPORT THE LOADS APPLICABLE TO THE

TRUSS MANUFACTURER SHALL DESIGN FOR THE FOLLOWING SUPERIMPOSED

#### <u>DTTOM CHORD DEAD LOAD</u> TTOM CHORD LIVE LOAD SEE "DESIGN LOADS" SECTION OF THE GENERAL NOTES FOR LIVE LOADS APPLIED

DESIGN ROOF TRUSSES TO RESIST THE WIND UPLIFT LOADING IN ACCORDANCE

IN ADDITION TO THE ABOVE LOADS, WOOD TRUSSES SHALL BE DESIGNED FOR CONCENTRATED LOADS HUNG FROM OR SUPPORTED ON TRUSSES. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR LOADING INFORMATION AND LOCATION. LOADING AS REQUIRED BY OTHER SUBCONTRACTORS, SUCH AS FIRE PROTECTION, SHALL BE COORDINATED BY THE

ALL MANUFACTURED TRUSS HOLD-DOWNS TO BE BY SIMPSON STRONG-TIE COMPANY, INC. OR APPROVED EQUAL. ALL CONNECTORS SHALL BE FASTENED TO FRAMING MEMBERS FILLING THE REQUIRED NUMBER OF CONNECTOR HOLES WITH THE TYPE AND SIZE FASTENERS SPECIFIED BY THE MANUFACTURER. ALL TEMPORARY AND PERMANENT BRACING MEMBERS AND CONNECTIONS REQUIRED FOR WOOD TRUSSES SHALL BE DETAILED ON THE WOOD TRUSS

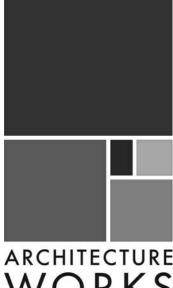
11. TEMPORARY BRACING SHALL NOT IMPOSE ANY FORCE ON THE SUPPORTING

STRUCTURE. PERMANENT BRACING FORCES SHALL BE TRANSFERRED TO THE ROOF OR FLOOR DIAPHRAGM BY THE BRACING DESIGN PROVIDED BY THE TRUSS



Thompson Engineering, Inc. 2970 Cottage Hill Road Ste. 190 Mobile, AL 36606 Tel: 251.666.2443



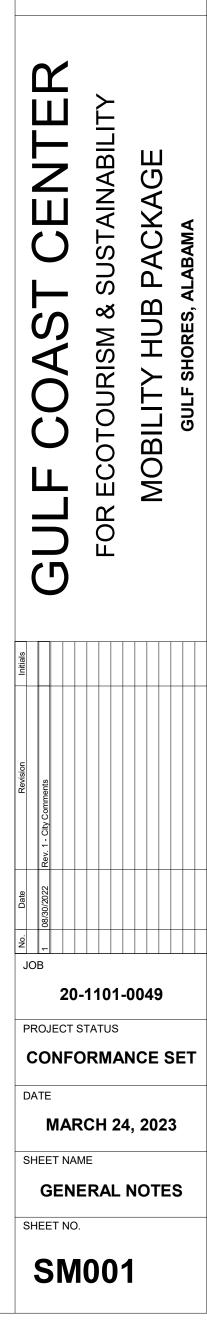


**130 NINETEENTH STREET SOUTH** BIRMINGHAM, ALABAMA 35233 TELEPHONE: 205.320.0880 www.architectureworks.con

COPYRIGHT - ALL RIGHTS RESERVED 2020 THIS DRAWING IS THE PROPERTY OF ARCHITECTUREWORKS, LLP, AND IS NOT TO BE REPRODUCED, COPIED OR ALTERED IN WHOLE OR IN PART. THIS DRAWING IS NOT TO BE USEI FOR ANY PURPOSE WITHOUT THE APPROVAL OI ARCHITECTUREWORKS, LLP AND IS TO BE RETURNET TO ARCHITECTUREWORKS, LLP UPON REQUEST

WATERSHED Building Sustainability

302 Magnolia Avenue Fairhope, AL 36532 p 251.929.0514



AB	ANCHOR BOLT	VERT.	VERTICAL
AFF	ABOVE FINISH FLOOR	JST.	JOIST
BOT.	воттом	JT.	JOINT
B.O. BM	BOTTOM OF BEAM	JG.	JOIST GIRDER
B.O. COL	BOTTOM OF COLUMN	K	KIPS (1000 LBS)
B.O. CONC	BOTTOM OF CONCRETE	KLF	KIPS PER LINEAR FOOT
B.O. FTG	BOTTOM OF FOOTING	KSP	KIPS PER SQUARE FOOT
B.O. FTG	BOTTOM OF FOOTING	KSP	KIPS PER SQUARE FOOT
B.O. JST	BOTTOM OF JOIST	KSI	KIPS PER SQUARE FOOT
B.O. SLAB	BOTTOM OF SLAB	LB/S	POUND/POUNDS
B.O. STL	BOTTOM OF STEEL	LLH	LONG LEG HORIZONTAL
B.O. WALL	BOTTOM OF WALL	LLV	LONG LEG VERTICAL
BFF	BELOW FINISH FLOOR	LIN.	LINEAR
BRG.	BEARING	LIN. FT.	LINEAR FOOT
BLK.	BLOCK	MISC.	MISCELLANEOUS
BM.	BEAM	NS	NEAR SIDE
BP	BASE PLATE	NTS	NOT TO SCALE
BRIDG.	BRIDGING	NOM.	NOMINAL
BRG.	BEARING	O.C.	ON CENTER
C/C	CENTER TO CENTER	O.F.	OUTSIDE FACE
CL	CENTERLINE	OPNG.	OPENING
CONN.	CONNECTION	OPP.	OPPOSITE
СМИ	CONCRETE MASONRY UNIT	PL	PLATE
CONST. JT.	CONSTRUCTION JOINT	PAF	POWDER ACTUATED FASTENERS
CONT.	CONTINUOUS	PLF	POUNDS PER LINERA FOOT
CJ	CONTROL JOINT	PCF	POUNDS PER CUBIC FOOT
CONC.	CONCRETE	PCI	POUNDS PER CUBIC INCH
COL.	COLUMN	WP	WORK POINT
CTR.	CENTER	REV.	REVISION
DBL.	DOUBLE	REINF.	REINFORCING
DBA	DEFORMED ANCHOR BAR	REQ'D.	REQUIRED
DBE	DECK BEARING ELEVATIONS	SIM.	SIMILAR
EJ	EXPANSION JOINT	SCHED.	SCHEDULE
ELEV.	ELEVATION	SLH	SHORT LEG HORIZONTAL
EMBED.	EMBEDMENT	SLV.	SHORT LEG VERTICAL
EXIST. GR.	EXISTING GRADE	SJ	SAW JOINT
EXIST.		SPA.	SPACING
EOS	EDGE OF SLAB	SF	SQUARE FOOT
FF	FINISH FLOOR	STD.	STANDARD
F.O. BM.	FACE OF BEAM	STIFF.	STIFFENER
F.O. COL.	FACE OF COLUMN	STRUCT.	STRUCTURAL
F.O. CONC.	FACE OF CONCRETE	TBR	
F.O. FTG.	FACE OF FOOTING	T&B	TOP AND BOTTOM
F.O. JST.	FACE OF JOIST	T.O. BM	
F.O. SLAB	FACE OF SLAB	T.O. COL	
F.O. STL.	FACE OF STEEL FACE OF WALL	T.O. CONC	
F.O. WALL FLR.	FLOOR	T.O. FTG T.O. JST	TOP OF FOOTING TOP OF JOIST
	FOUNDATION	T.O. SLAB	TOP OF JOIST
FDN. FTG.	FOUNDATION	T.O. SLAB	TOP OF SLAB
HS	HEADED STUD	T.O. STL	TOP OF WALL
нз НК.	HOOK	THK.	
HORIZ.	HORIZONTAL	THRU	THROUGH
TYP	TYPICAL	W/O	WITHOUT
111			

CAST-IN-PLACE CONCRETE MIX SCHEDULE									
APPLICATION	EXPOSURE CLASS	STRENGTH (PSI)	TYPE	W/C RATIO	SLUMP	AIR CONTENT	MAX AGGREGATE	MAX CONCRETE WEIGHT (PCF)	FIBER
SLAB ON GRADE / PEDESTALS	F0, S0, P0, CO	4,000	NORMAL WT.	0.45 (40% ASH)	3" TO 5"		3/4"		NO
SHALLOW FOUNDATIONS	F0, S0, P0, CO	3,000	NORMAL WT.	0.50 (40% ASH)	4" TO 6"		3/4"		NO

EXPOSURE CLASS FOR FREEZE/THAW, SULFATES, PERMEABILITY, AND CORROSION ARE PER ACI 318, SECTION 4.2.

WHERE NO W/C RATIO, SLUMP, OR AIR CONTENT IS NOTED, VALUES SHALL BE AS RECOMMENDED BY THE READY MIX SUPPLIERS ENGINEER. 2. WHERE AIR ENTRAINMENT IS NOT REQUIRED PER THE ABOVE TABLE, THE CONTRACTOR, INSTALLER, OR SUPPLIER MAY CHOOSE TO INCLUDE AIR ENTRAINMENT TO IMPROVE 3. PLACEMENT AND FINISHING CHARACTERISTICS. AIR ENTRAINMENT IS NOT PERMITTED IN NORMAL WEIGHT CONCRETE TO RECEIVE A HARD TROWEL FINISH, AND ENTRAPPED AIR SHALL NOT EXCEED 3%. AIR ENTRIANMENT IN LIGHT WEIGHT CONCRETE SLABS IS REQUIRED TO MEET FIRE RATING REQUIREMENTS. SLABS SHALL BE PROPERLY FINISHED TO AVOID SURFACE IMPERFECTIONS SUCH AS BLISTERING OR DELAMINATION. 4.

CEMENT AND AGGREGATES SHALL BE FROM A SINGLE SOURCE.

## CIP CONCRETE CLEAR COVER SCHEDULE

LOCATION	COVER mm (IN)
CONCRETE CAST AGAINST & EXPOSED TO EARTH	76 (3")
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 TO #18 BARS	51 (2")
#5, W31, AND SMALLER BARS	38 (1 1/2")
CONCRETE NOT EXPOSED TO EARTH OR WEATHER:	
SLABS, WALLS, AND JOISTS	
#14 AND #18 BARS	38 (1 1/2")
#11 AND SMALLER BARS	19 (3/4")
BEAMS AND COLUMNS	38 (1 1/2")
FOOTINGS, GRADE BEAMS, AND PILE CAPS	51 (2") TOP 76 (3") BOTT. & SIDES
DRILLED PIERS AND BELLED PIERS	76 (3") CLEAR OF TIES
PEDESTALS AND COLUMNS	38 (1 1/2") CLEAR OF TIES
BASEMENT WALLS	51 (2") EXT. & 19 (3/4") INT.
RETAINING WALLS	51 (2") BOTH FACES
SUMP AND PIT WALLS	51 (2") BOTH FACES
ELEVATED SLABS NOT EXPOSED TO WEATHER	19 (3/4") TOP & BOTT.
POST TENSIONED SLABS EXPOSED TO WEATHER	25 (1") TOP & BOTT.
ELEVATED SLABS EXPOSED TO WEATHER:	
#5 AND SMALLER BARS	38 (1 1/2") TOP & 19 (3/4") BOTT.
#6 AND GREATER BARS	51 (2") TOP & 19 (3/4") BOTT.
WELDED WIRE REINFORCEMENT:	
5" OR LESS SLAB THICKNESS	CENTER
6" OR GREATER SLAB THICKNESS	51 (2") FROM TOP
SLAB ON WELL GRADED SUBGRADE OR VAPOR BARRIERS	19 (3/4") TOP 38 (1 1/2") BOTT.
BEAMS	38 (1 1/2") CLEAR OF STIRRUPS
JOISTS	38 (1 1/2") ALL SIDES
WIDE MODULE JOISTS	19 (3/4")

	CONCRETE TENSION SPLICE LAP LENGTHS												
		f'c = 30	000 PSI			f'c = 4000 PSI				f'c = 5000 PSI			
BAR SIZE	TOP	BARS	OTHER	BARS	TOP	BARS	OTHER	BARS	TOP	BARS	OTHER	RBARS	
	А	В	A	В	А	В	A	В	А	В	A	В	
#3	22	28	17	22	19	25	15	19	17	22	13	17	
#4	29	38	22	29	25	33	19	25	23	29	17	23	
#5	36	47	28	36	31	41	24	31	28	36	22	28	
#6	54	56	33	43	37	49	29	37	34	44	26	34	
#7	63	81	48	63	54	71	42	54	49	63	38	49	
#8	72	93	55	72	62	81	48	62	56	72	43	56	
#9	81	105	62	81	70	91	54	70	63	81	48	63	
#10	91	118	70	91	79	102	61	79	71	92	54	71	
#11	101	131	78	101	87	114	67	87	78	102	60	78	

ALL LENGTHS ARE IN INCHES. 1

BAR COVER AND TRANSVERSE REINFORCEMENT SHALL MEET CODE MINUMUM. 2. 3.

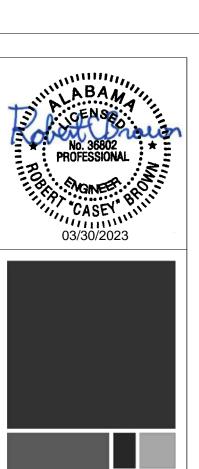
LAP SPLICING OF #14 & #18 BARS IS NOT ALLOWED. LAP LENGTHS ARE FOR NORMAL WEIGHT CONCRETE WITH UNCOATED, 60 KSI BARS. 4 WHEN LAPPING BARS OF DIFFERENT SIZES USE THE SPLICE LAP LENGTH OF THE 5. SMALLER BAR, OR THE DEVELOPMENT LENGTH OF THE LARGER BAR, WHICHEVER IS GREATER. THE "A" VALUE FROM THE TABLE IS EQUAL TO THE BAR DEVELOPMENT LENGTH.

TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 12" OF CONCRETE 6 CAST BELOW THE REINFORCEMENT.

	- SPECIAL	INSPECTIONS
SPECIAL CASES (IBC 1705.1.1)		
ITEM	FREQUENCY	INSTRUCTIONS / COMMENTS
INSPECT WORK THAT IS DEEMED "UNUSUAL" BY THE BUILDING OFFICIAL.	CONTINUOUS	AS DEFINED BY THE BUILDING OFFICIA OR REGISTERED DESIGN PROFESSIONAL.
SOILS CONSTRUCTION (IBC 1705.6)		
ITEM	FREQUENCY	EXTENT / COMMENTS
VERIFY MATERIALS BELOW SHALLOW	PERIODIC	AS RECOMMENDED IN APPROVED SOI
FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		REPORT AND CONTAINED IN THE CONSTRUCTION DOCUMENTS.
VERIFY EXCAVATIONS ARE EXTENDED	PERIODIC	
TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		
VERIFY CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	PERIODIC	
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	CONTINUOUS	
OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY PRIOR TO PLACEMENT OF COMPACTED FILL.	PERIODIC	
CONCRETE CONSTRUCTION (IBC 1705.3)		
ITEM	FREQUENCY	EXTENT / COMMENTS
SPREAD FOOTING ARE EXCEPTED FROM INSPECTIONS, BUT NOT MATERIALS TESTING.	·	
CONTINUOUS FOOTINGS ARE EXCEPTED FROM INSPECTIONS, BUT NOT MATERIALS TESTING.		
SLABS ON GRADE ARE EXCEPTED FROM INSPECTIONS, BUT NOT MATERIALS TESTING.		
CONCRETE FOUNDATION WALLS ARE EXCEPTED FROM INSPECTIONS, BUT NOT MATERIALS TESTING.	1	
INSPECT ANCHORS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE.	PERIODIC	
INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE.	PERIODIC	INSPECT ACCORDING TO RESEARCH REPORT FOR THE ANCHOR ISSUED.
VERIFY THAT CORRECT CONCRETE	PERIODIC	FOR EACH POUR.
DESIGN MIX IS BEING USED.	CONTINUOUS	
AT THE TIME CONCRETE IS SAMPLED FOR STRENGTH TESTS, TEST CONCRETE FOR SLUMP, AIR CONTENT, AND TEMPERATURE.	CONTINUOUS	DURING PLACEMENT OPERATIONS. REFERENCE CONCRETE SPECIFICATIONS FOR SPECIFIC TESTS AND FREQUENCIES.
INSPECT CONCRETE/SHOTCRETE PLACEMENT AND PLACEMENT METHODS EXCEPT AS NOTED ABOVE.	CONTINUOUS	AND FREQUENCIES.
INSPECT ALL CONCRETE CURING OPERATIONS.	PERIODIC	MONITOR DURING HOT, COLD AND WINDY CONDITIONS. REFERENCE CONCRETE SPECIFICATIONS.
MEASURE FLOOR AND SLAB FLATNESS AND LEVELNESS ACCORDING TO ASTM E 1155.	PERIODIC	FOR EACH POUR. DO NOT SUBMIT REPORTS TO BUILDING OFFICIAL.
STRUCTURAL STEEL CONSTRUCTION (IBC		<u></u>
ITEM	FREQUENCY	EXTENT / COMMENTS
NSPECT ANCHOR RODS AND OTHER EMBEDMENTS. VERIFY DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM AND	PERIODIC	APPLIES TO EMBEDDED POST/COLUM CONNECTIONS.
THE EXTENT OF DEPTH OF EMBEDMENT PRIOR TO PLACEMENT OF CONCRETE.		
WOOD CONSTRUCTION (IBC 1705.5)		
ITEM NSPECT SITE-BUILT ASSEMBLIES NCLUDING SITE BUILT TRUSSES. NSPECT ERECTED TRUSSES INCLUDING	FREQUENCY PERIODIC	EXTENT / COMMENTS
BRIDGING AND ATTACHMENTS.	NATES	
NOTE: THE INSPECTION AND TESTING AG OWNER'S AGENT AND NOT BY THE CONTE INSPECTED OR TESTED. ANY CONFLICT C	RACTOR OR SUBC	CONTRACTOR WHOSE WORK IS TO BE
OFFICIAL PRIOR TO COMMENCING WORK. CONTINUOUS: THE INSPECTOR IS PRESEI	THE QUALIFICAT	IONS OF THE INSPECTION AGENT(S) AF



Thompson Engineering, Inc. 2970 Cottage Hill Road Ste. 190 Mobile, AL 36606 Tel: 251.666.2443



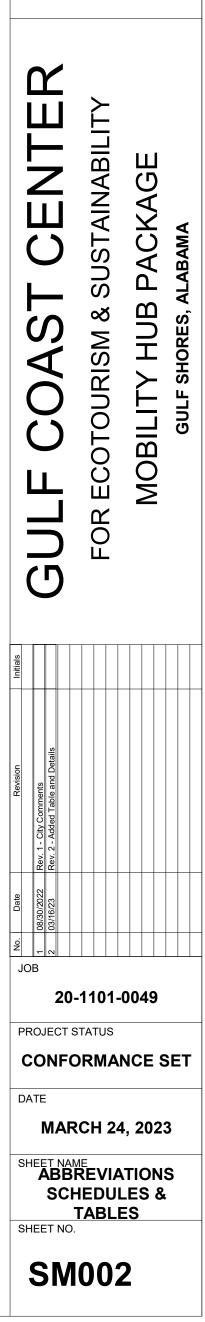


130 NINETEENTH STREET SOUTH BIRMINGHAM, ALABAMA 35233 TELEPHONE: 205.320.0880 www.architectureworks.com

COPYRIGHT - ALL RIGHTS RESERVED 2020 THIS DRAWING IS THE PROPERTY OF ARCHITECTUREWORKS, LLP, AND IS NOT TO BE REPRODUCED, COPIED OR ALTERED IN WHOLE OR IN PART, THIS DRAWING IS NOT TO BE USED FOR ANY PURPOSE WITHOUT THE APPROVAL OF ARCHITECTUREWORKS, LLP AND IS TO BE RETURNED TO ARCHITECTUREWORKS, LLP UPON REQUEST.

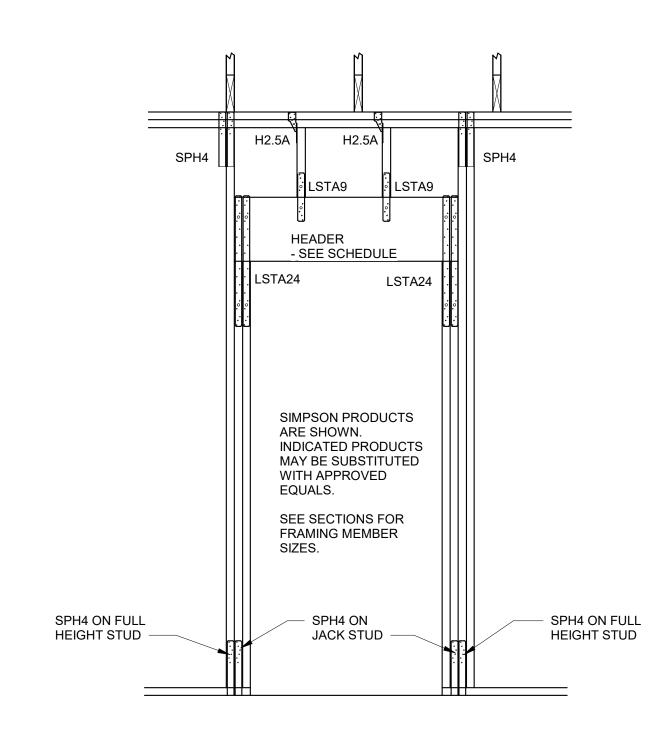
WATERSHED Building Sustainability

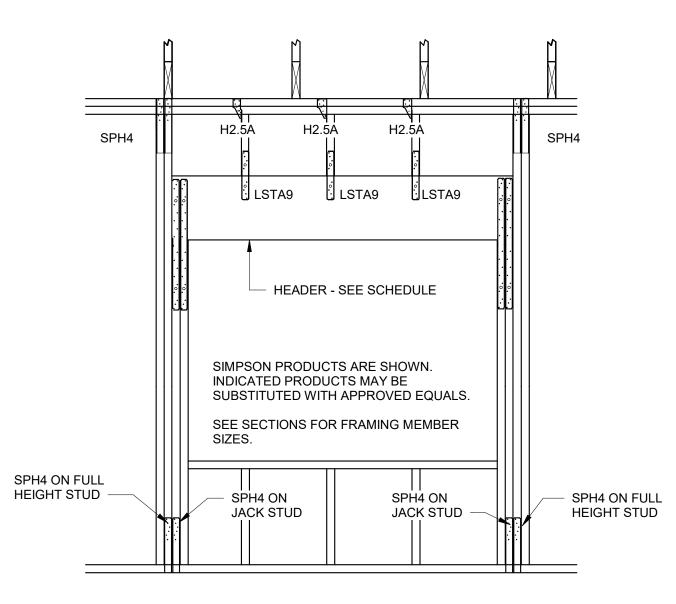
302 Magnolia Avenue Fairhope, AL 36532 p 251.929.0514



NAIL	FASTENING SCHEDULE						
DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENERS	SPACING AND LOCATION	DESCRIPTION OF	F BUILDING ELEMENTS	S NUMBER AND TYPE OF FASTENERS FLOOR	SPACING	AND LOCATION
BLOCKING BETWEEN CEILING JOISTS, RAFTERS, OR TRUSSES TO TOP PLATE OR OTHER FRAMING	3-8D COMMON (2 1/2"X0.131"); OR 3-10D BOX (3"X0.128"); OR 3-3"X0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	EACH END, TOENAIL	JOIST TO SILL, TOP PL/	ATE, OR GIRDER	3-8D COMMON (2 1/2"X0.131"); OR 3-10D BOX (3"X0.128"); OR 3-3"X0.131 NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	TOENAIL	
BLOCKING BETWEEN RAFTERS OR TRUSSES NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS	2-8D COMMON (2 1/2"X0.131") 2-3"X0.131" NAILS 3-3" 14 GAGE STAPLES	EACH END, TOENAIL	RIM JOIST, BAND JOIST PLATE, SILL, OR OTHEF		DP 8D COMMON (2 1/2"X0.131"); OR 10D BOX (3"X0.128"); OR 3"X0.131 NAILS; OR 3" 14 GAGE STAPLES. 7/16" CROWN	6" O.C., TC	DENAIL
	2-16D COMMON (3 1/2"X0.162") AT 6" O.C. 3-3"X0.131" NAILS 3-3" 14 GAGE STAPLES, 7/16" CROWN	END NAIL	1"X6" SUBFLOOR OR LE	ESS TO EACH JOIST	2-8D COMMON (2 1/2"X0.131"); OR 2-10D BOX (3"X0.128")	FACE NAIL	-
FLAT BLOCKING TO TRUSS AND WEB FILLER	16D COMMON (2 1/2"X0.131") AT 6" O.C.	FACE NAIL	2" SUBFLOOR TO JOIST	T OR GIRDER	2- 16D COMMON (3 1/2"X0.162")	FACE NAIL	
CEILING JOISTS TO TOP PLATE	3-8D COMMON (2 1/2"X0.131"); OR 3-10D BOX (3"X0.128"); OR 3-3"X0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	EACH JOIST, TOENAIL	`````	2" PLANKS (PLANK AND BEAM - FLOOR AND ROOF) BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS		32" O.C., F	RING, FACE NAIL ACE NAIL AT TOP A STAGGERED ON
CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (NO THRUST) (SEE SECTION 2308.7.3.1, TABLE 2308.7.3.1)	3-16D COMMON (2 1/2"X0.131"); OR 4-10D BOX (3"X0.128"); OR 4-3"X0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL			10D BOX (3"X0.128"); OR 3"X0.131" NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN		ACE NAIL AT TOP AN STAGGERED ON
CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT) (SEE SECTION 2308.7.3.1, TABLE 2308.7.3.1)	PER TABLE 2308.7.3.1	FACE NAIL			AND 2-20D COMMON (4"X0.192"); OR 3-10D BOX (3"X0.128"); OR 3-3"X0.131" NAILS; OR	ENDS AND FACE NAIL	) AT EACH SPLICE, -
COLLAR TIE TO RAFTER	3-10D COMMON (3"X0.148"); OR 4-10D BOX (3"X0.128"); OR 4-3"X0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL	LEDGER STRIP SUPPO	RTING JOISTS OR RAF	4-10D BOX (3"X0.128"); OR 4-3"X0.131" NAILS; OR		ST OR RAFTER,
RAFTER OR ROOF TRUSS TO TOP PLATE (SEE SECTION 2308.7.5, TABLE 1308.7.5)	3-10D COMMON (3"X0.148"); OR 3-16D COMMON (2 1/2"X0.131"); OR 4-10D BOX (3"X0.128"); OR 4-3"X0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	TOENAIL	JOIST TO BAND JOIST (	OR RIM JOIST	4-3" 14 GAGE STAPLES, 7/16" CROWN 3-16D COMMON (3 1/2"X0.162"); OR 4-10D BOX (3"X0.128"); OR 4-3"X0.131" NAILS; OR	END NAIL	
ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS; OR ROOF RAFTER TO 2-INCH RIDGE BEAM	2-16D COMMON (3 1/2"X0.162"); OR 3-10D BOX (3"X0.128"); OR 3-3"X0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	END NAIL	BRIDGING OR BLOCKIN TRUSS	4-3" 14 GAGE STAPLES, 7/16" CROWNBRIDGING OR BLOCKING TO JOIST, RAFTER, OR2-8D COMMON (2 1/2"X0.131"); OR			), TOENAIL
	3-10D COMMON (3"X0.148"); OR 4-16D BOX (3 1/2"X0.135"); OR 4-10D BOX (3"X0.128"); OR 4-3"X0.131 NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	TOENAIL	FOR USE WHEN A SPEC				
	WALL						
STUD TO STUD (NOT AT BRACED WALL PANELS)	16D COMMON (3 1/2"X0.162")	24" O.C. FACE NAIL					7
	10D BOX (3"X0.128"); OR 4-3"X0.131 NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	16" O.C. FACE NAIL	HEADER	MAX SPAN	D HEADER TABLE	DETAIL	_
STUD TO STUD AND ABUTTING STUDS AT	16D COMMON (3 1/2"X0.162")	16" O.C. FACE NAIL	HD428	5'-0"	2X4 WALL WITH DOUBLE 2X8		_
INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16D BOX (3 1/2"X0.162")	12" O.C. FACE NAIL	110420		BEAMS w/ 1/2" PLYWOOD SHIMS.	MM	
	3"X0.131 NAILS; OR 3" 14 GUAGE STAPLES, 7/16" CROWN	12" O.C. FACE NAIL			NAIL TOGETHER w/ (2) 16D NAILS @12" OC.		
BUILT-UP HEADER (2" TO 2" HEADER)	16D COMMON (3 1/2"X0.162")	16" O.C. EACH EDGE, FACE NAIL	HD4212	8'-0"	2X4 WALL WITH DOUBLE 2X12 BEAMS w/ 1/2" PLYWOOD SHIMS. NAIL TOGETHER w/ (3) 16D NAILS	$\bigvee$	
	10D BOX (3"X0.128")	12" O.C. EACH EDGE, FACE NAIL			@12" OC.		
CONTINUOUS HEADER TO STUD TOP PLATE TO TOP PLATE	4-8D COMMON (2 1/2"X0.131"); OR 4-10D BOX (3"X0.128") 16D COMMON (3 1/2"X0.162")	16" O.C. FACE NAIL	HD628	6'-6"	2X6 WALL WITH TRIPLE 2X8 BEAMS w/ 1/2" PLYWOOD SHIMS.		-
	10D BOX (3"X0.128"); OR 4-3"X0.131 NAILS; OR	12" O.C. FACE NAIL			MAIL TOGETHER w/ (2) 16D NAILS @12" OC.		
TOP PLATE TO TOP PLATE, AT END JOINTS	4-3" 14 GAGE STAPLES, 7/16" CROWN 8-16D COMMON (3 1/2"X0.162"); OR 12-10D BOX (3"X0.128"); OR 12-3"X0.131" NAILS; OR 12-3" 14 GAGE STAPLES, 7/16" CROWN	EACH SIDE OF END JOINT, FACE NAIL (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)	HD6212	10'-0"	2X6 WALL WITH TRIPLE 2X12 BEAMS w/ 1/2" PLYWOOD SHIMS. NAIL TOGETHER w/ (3) 16D NAILS @12" OC.		_
BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST	16D COMMON (3 1/2"X0.162")	16" O.C. FACE NAIL				V W V	
OR BLOCKING (NOT AT BRACED WALL PANELS)	16D BOX (3 1/2"X0.135"); OR 3"X0.131 NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN	12" O.C. FACE NAIL	HD628i	5'-6"	2X6 WALL WITH DOUBLE 2X8 HEADER BEAMS w/ 2X6 T&B PLATES. NAIL TOGETHER w/ 16D		
BOTTOM PLATE TO JOIST, RIM JIST, BAND JOIST OR BLOCKING AT BRACED WALL PANELS	2-16D COMMON (3 1/2"X0.162"); OR 3-16D BOX (3"X0.135"); OR 4-3"X0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	16" O.C. FACE NAIL	HD6212i	8'-6"	NAILS @6" OC. 2X6 WALL WITH DOUBLE 2X12		_
STUD TO TOP OR BOTTOM PLATE	2-16D COMMON (3 1/2"X0.162"); OR 3-10D BOX (3"X0.128"); OR 3-3"X0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	END NAIL			HEADER BEAMS w/ 2X6 T&B PLATES. NAIL TOGETHER w/ 16D NAILS @6" OC.		
TOP PLATES, LAPS AT CORNERS, AND INTERSECTIONS	2-16D COMMON (3 1/2"X0.162"); OR 3-10D BOX (3"X0.128"); OR 3-3"X0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL	HD6212hs	12'-0"	2X6 WALL WITH TRIPLE 2X12 HEADER BEAMS w/ 2X6 T&B PLATES. NAIL TOGETHER w/ (3)		-
1" BRACE TO EACH STUD AND PLATE	2-8D COMMON (2 1/2"X0.131"); OR 2-10D BOX (3"X0.128"); OR 2-3"X0.131" NAILS; OR 2-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL			16D NAILS @12" OC SIDES, & 16D NAILS @6" OC T&B.		
1"X6" SHEATHING TO EACH BEARING	2-8D COMMON (2 1/2"X0.131"); OR 2-10D BOX (3"X0.128")	FACE NAIL					
1"X8" AND WIDER SHEATHING TO EACH BEARING	3-8D COMMON (2 1/2"X0.131"); OR 3-10D BOX (3"X0.128")	FACE NAIL					

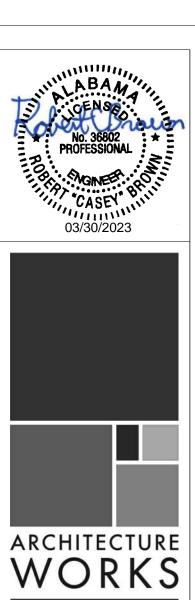








Thompson Engineering, Inc. 2970 Cottage Hill Road Ste. 190 Mobile, AL 36606 Tel: 251.666.2443

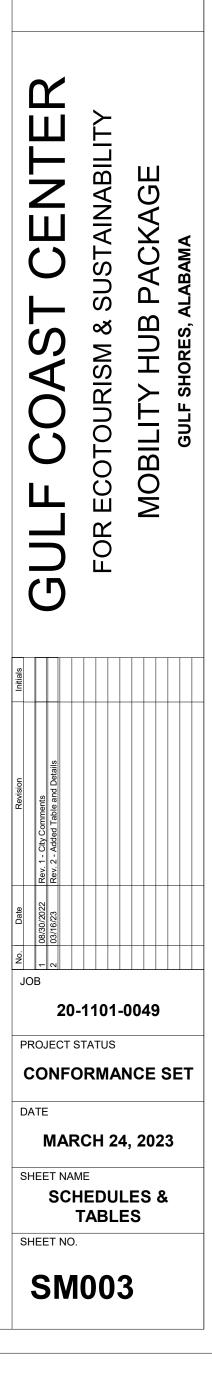




COPYRIGHT - ALL RIGHTS RESERVED 2020 THIS DRAWING IS THE PROPERTY OF ARCHITECTUREWORKS, LLP, AND IS NOT TO BE REPRODUCED, COPIED OR ALTERED IN WHOLE OR IN PART. THIS DRAWING IS NOT TO BE USED FOR ANY PURPOSE WITHOUT THE APPROVAL OF ARCHITECTUREWORKS, LLP AND IS TO BE RETURNED TO ARCHITECTUREWORKS, LLP UPON REQUEST.

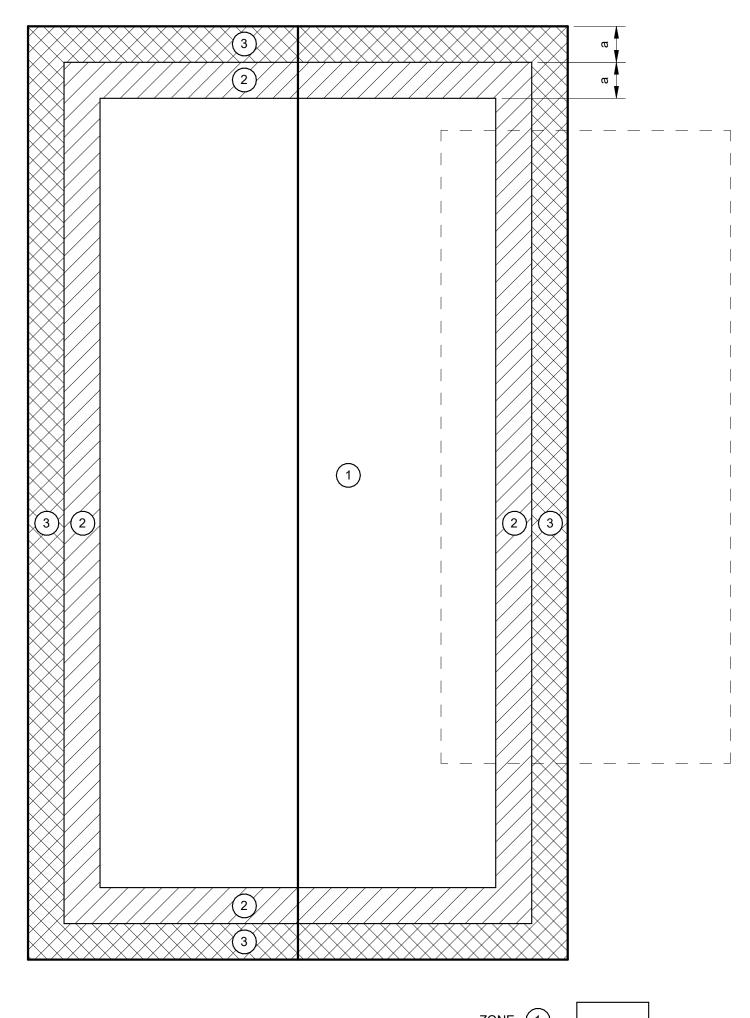
WATERSHED Building Sustainability

302 Magnolia Avenue Fairhope, AL 36532 p 251.929.0514



TYPICAL DOOR OPENING HOLD-DOWN

TYPICAL WINDOW OPENING HOLD-DOWN





ZONE (1)	
ZONE 2	
ZONE (3)	

	C&C Pressures Table Open							
OPEN LOCATION	OPEN ZONE	OPEN AREA	OPEN ULTIMATE +P	OPEN ULTIMATE -P	OPEN ALLOWABLE +P	OPEN ALLOWABLE -P		
LL					-	·		
ROOF	1	≤ a2	45.4	-33.0	27.2	-19.8		
ROOF	1	> a2≤ 4.0a2	45.4	-33.0	27.2	-19.8		
ROOF	1	>4.0a2	45.4	-33.0	27.2	-19.8		
ROOF	2	≤ a2	70.2	-49.5	42.1	-29.7		
ROOF	2	> a2≤ 4.0a2	70.2	-49.5	42.1	-29.7		
ROOF	2	>4.0a2	45.4	-33.0	27.2	-19.8		
ROOF	3	≤ a2	90.8	-66.0	54.5	-39.6		
ROOF	3	> a2≤ 4.0a2	70.2	-49.5	42.1	-29.7		
ROOF	3	>4.0a2	45.4	-33.0	27.2	-19.8		

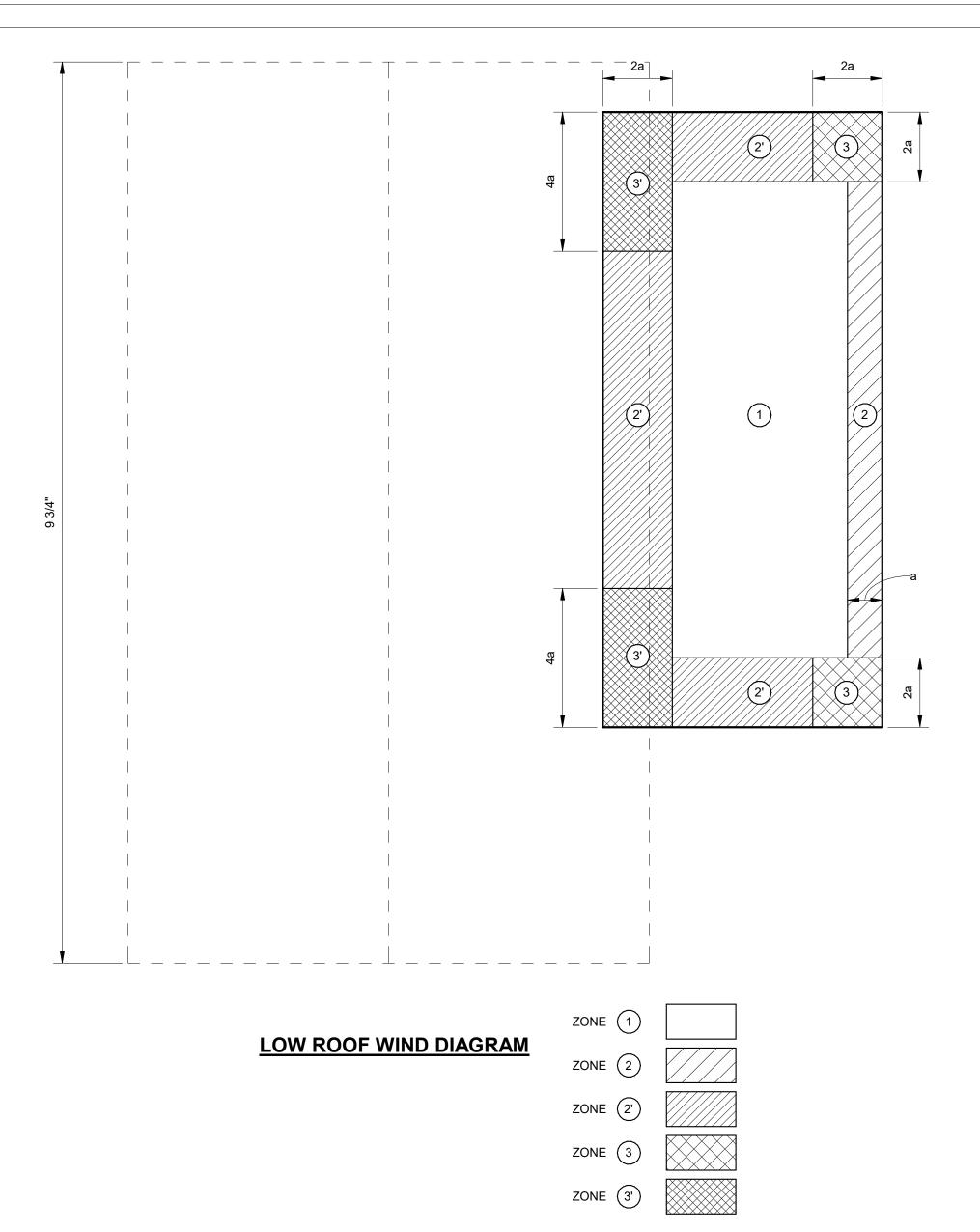
NOTES:

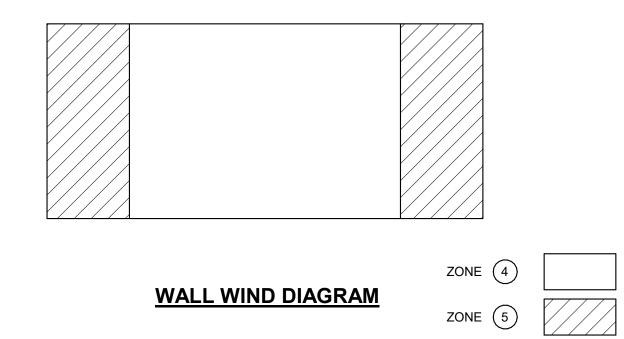
1. DESIGN BASED ON ASCE 7-16, SECTION 30. SEE GENERAL NOTES

FOR ADDITIONAL INFORMATION.2. ALLOWABLE WIND LOADS ARE 60% OF ULTIMATE WIND LOADS.

3. PRESSURE CATEGORY, OPEN.

4. WIDTH OF EDGE STRIP, "a" = 3'-2".

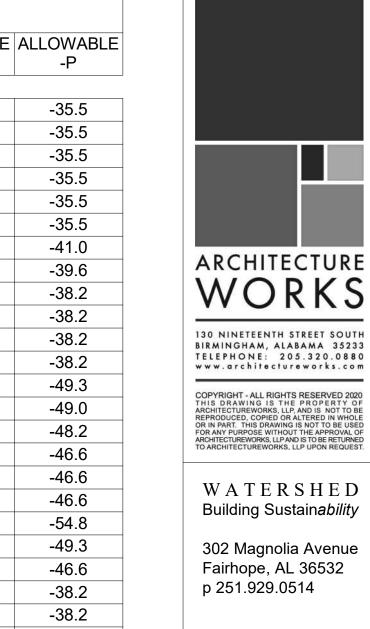


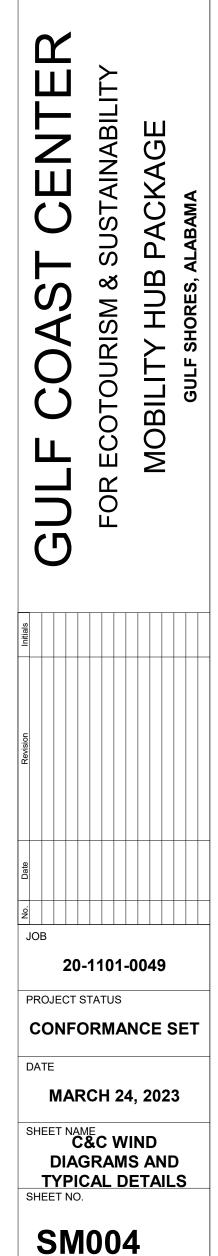




Thompson Engineering, Inc. 2970 Cottage Hill Road Ste. 190 Mobile, AL 36606 Tel: 251.666.2443







ULTIMATE ULTIMATE ALLOWABLE ALLOWABLE LOCATION ZONE AREA +P -P +P ROOF 22.2 10 -59.1 13.3 1 ROOF 19.9 -59.1 20 11.9 1 ROOF 50 17.5 -59.1 10.5 1 ROOF 100 17.5 -59.1 10.5 1 ROOF 200 17.5 -59.1 10.5 1 ROOF 500 17.5 -59.1 10.5 1 ROOF 10 22.2 2 -68.3 13.3 20 ROOF 19.9 2 -66.0 11.9 ROOF 50 2 17.5 -63.7 10.5 ROOF 100 17.5 -63.7 10.5 2 ROOF 200 17.5 -63.7 10.5 2 ROOF 500 17.5 -63.7 2 10.5 ROOF 10 22.2 -82.2 13.3 2' ROOF 2' 20 19.9 -81.7 11.9 ROOF 2' 50 17.5 -80.3 10.5 ROOF 100 17.5 2' -77.6 10.5 ROOF 200 17.5 -77.6 2' 10.5 ROOF 500 2' 17.5 -77.6 10.5 ROOF 3 10 22.2 -91.4 13.3 ROOF 20 -82.2 19.9 11.9 3 ROOF 50 17.5 -77.6 10.5 3 ROOF 100 17.5 -63.7 10.5 3 ROOF 200 17.5 -63.7 10.5 3 ROOF 500 17.5 -63.7 10.5 3 -38.2 ROOF 10 22.2 -128.4 -77.0 3' 13.3 ROOF 20 19.9 -114.5 11.9 -68.7 3' 50 ROOF -96.0 3' 17.5 10.5 -57.6 ROOF 100 17.5 -82.2 3' 10.5 -49.3 ROOF 200 17.5 -82.2 10.5 3' -49.3 ROOF 500 17.5 -82.2 3' 10.5 -49.3 WALL 10 54.5 -59.1 32.7 -35.5 4 20 50.8 WALL -56.8 30.5 -34.1 4 50 47.1 -53.6 28.3 -32.2 WALL 4 WALL 100 45.7 -50.8 27.4 -30.5 4 200 -48.5 26.6 WALL 44.3 -29.1 4 WALL 500 40.6 -45.2 -27.1 4 24.4 WALL 54.5 -73.0 10 32.7 -43.8 5 WALL 20 50.8 -68.3 30.5 5 -41.0 WALL 50 47.1 -61.4 28.3 5 -36.8 100 WALL 45.7 -55.9 27.4 -33.5 5 WALL 200 44.3 -52.2 5 26.6 -31.3 5 500 WALL 40.6 -45.2 24.4 -27.1

C&C Pressures Table

NOTES:

 DESIGN BASED ON ASCE 7-16, SECTION 30. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.

ALLOWABLE WIND LOADS ARE 60% OF ULTIMATE WIND LOADS.
 PRESSURE CATEGORY, ENCLOSED.

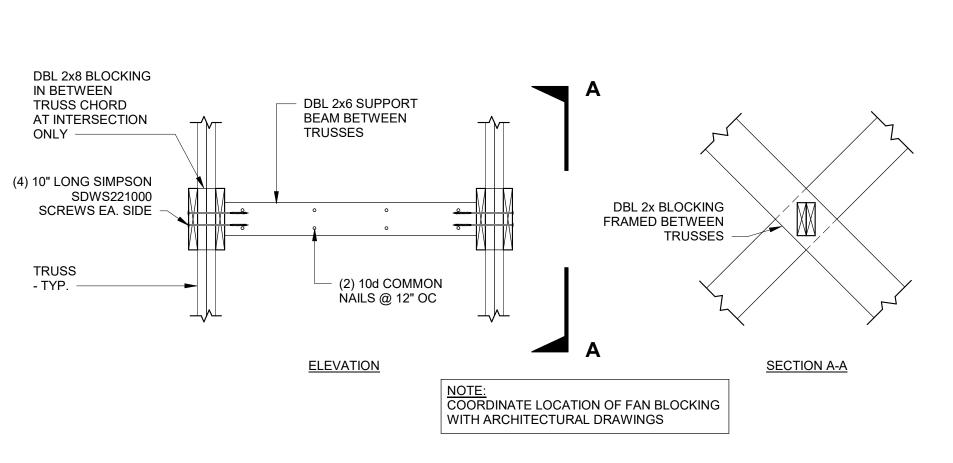
4. WIDTH OF EDGE STRIP, "a" = 3'-2".

1/4" MAX. - WELD WIRE REINFORCING -SEE GENERAL NOTES

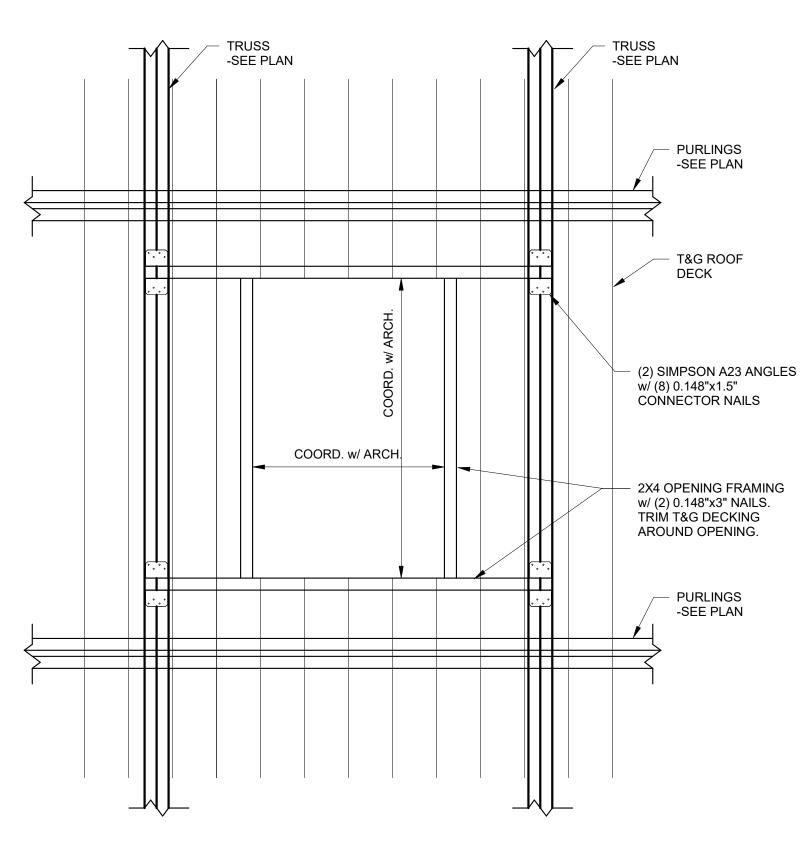
NOTE: SAWCUTTING SHALL BE PERFORMED 4 TO 12 HOURS AFTER PLACING CONCRETE FILL JOINT WHEN WIDTH EXCEEDS 1/8"

SLAB ON GRADE TYPICAL CONTROL JOINT

## FAN SUPPORT BEAM DETAIL





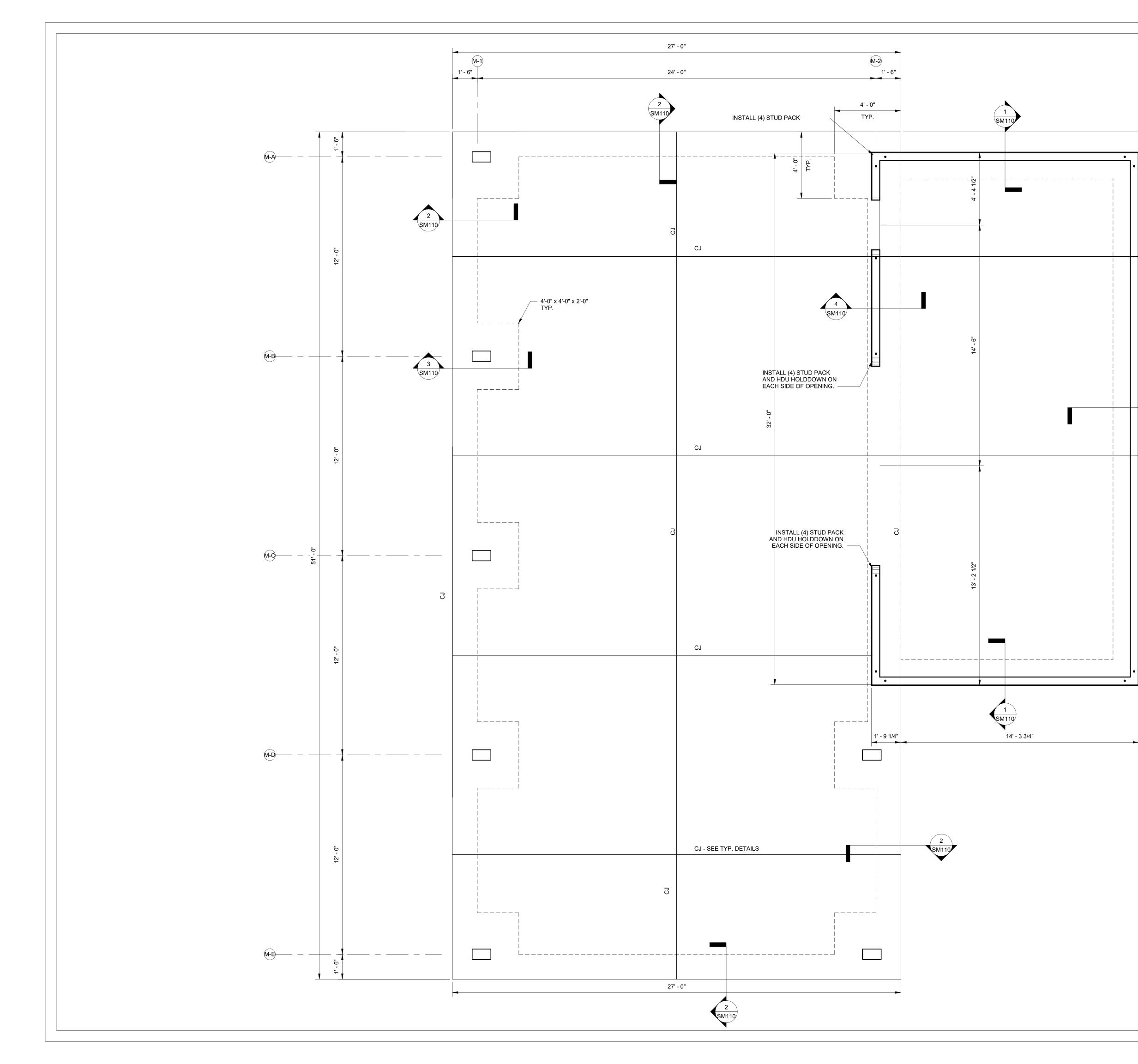




Thompson Engineering, Inc. 2970 Cottage Hill Road Ste. 190 Mobile, AL 36606 Tel: 251.666.2443



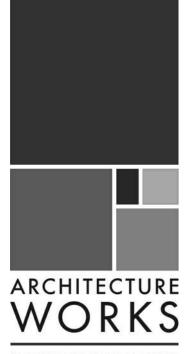






Thompson Engineering, Inc. 2970 Cottage Hill Road Ste. 190 Mobile, AL 36606 Tel: 251.666.2443





130 NINETEENTH STREET SOUTH BIRMINGHAM, ALABAMA 35233 TELEPHONE: 205.320.0880 www.architectureworks.com

COPYRIGHT - ALL RIGHTS RESERVED 2020 THIS DRAWING IS THE PROPERTY OF ARCHITECTUREWORKS, LLP, AND IS NOT TO BE REPRODUCED, COPIED OR ALTERED IN WHOLE OR IN PART. THIS DRAWING IS NOT TO BE USED FOR ANY PURPOSE WITHOUT THE APPROVAL OF ARCHITECTUREWORKS, LLP AND IS TO BE RETURNED TO ARCHITECTUREWORKS, LLP UPON REQUEST.

WATERSHED Building Sustainability

302 Magnolia Avenue Fairhope, AL 36532 p 251.929.0514

USTAINABILIT

S

৵

ECOTOURISM

FOR

. Ž

PROJECT STATUS

20-1101-0049

CONFORMANCE SET

MARCH 24, 2023

SLAB AND FOUNDATION PLAN

JOB

DATE

SHEET NAME

SHEET NO.

SM100

PACKAGE

HUB

MOBILIT<sup>V</sup> GULF

CENTER

S

**AO** 

 $\bigcirc$ 

Щ

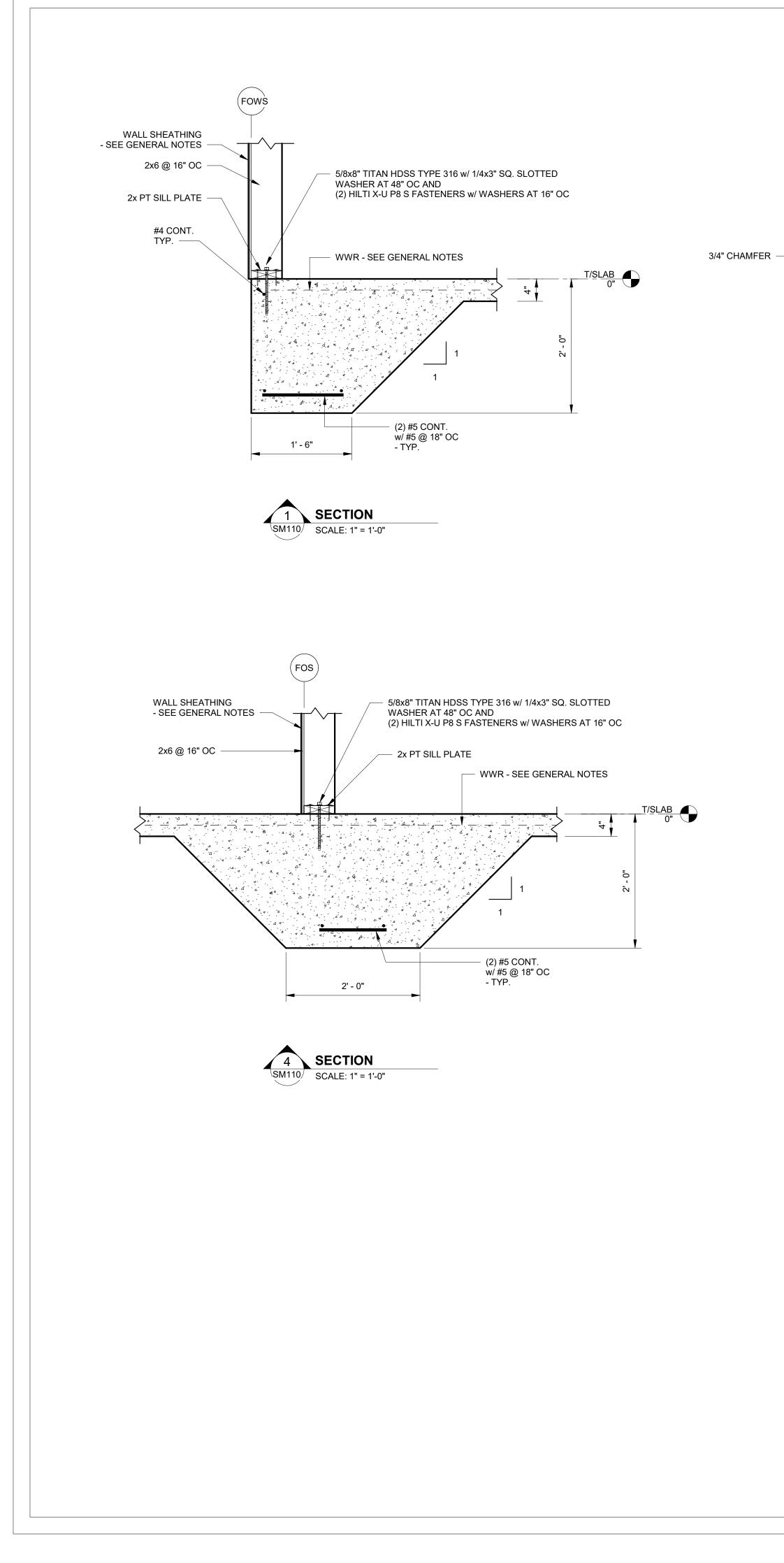
GUL

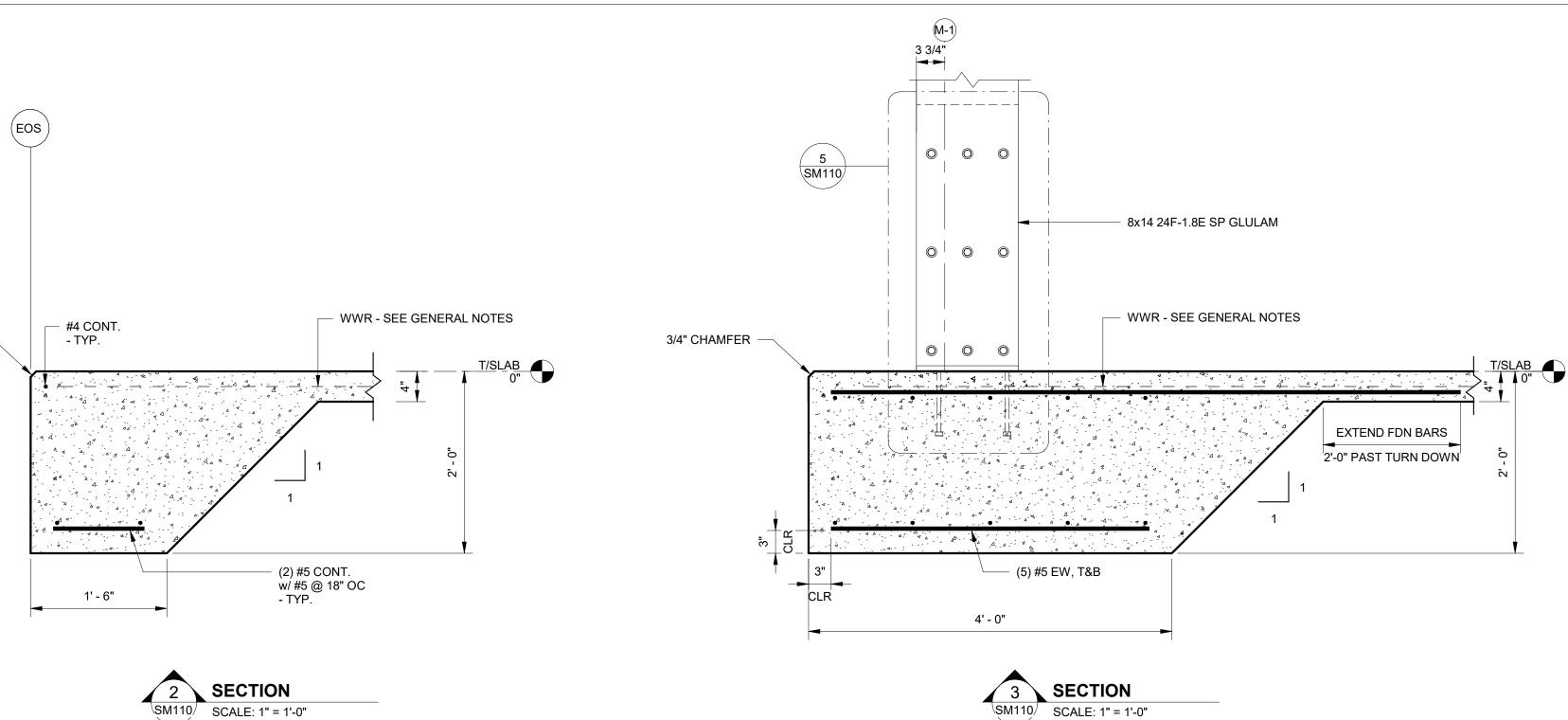
 $\begin{pmatrix} 1 \end{pmatrix}$ SM110

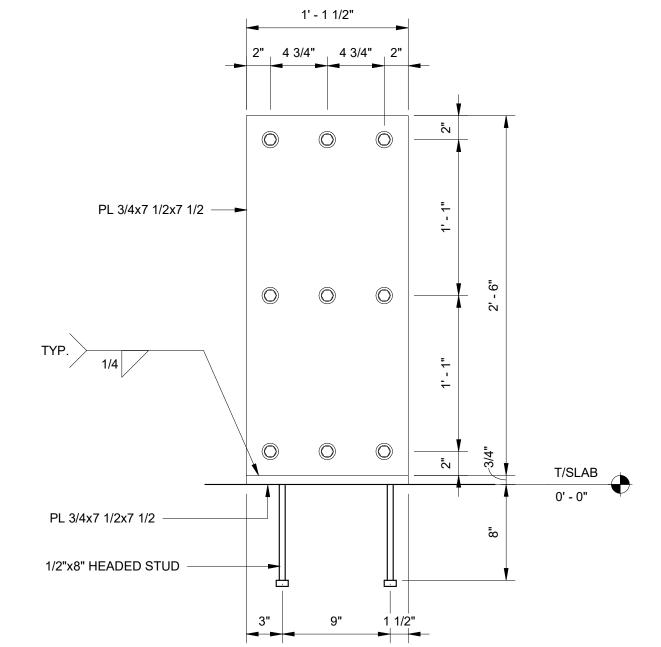
#### SLAB AND FOUNDATION PLAN SCALE: 3/8" = 1'-0"

FINISH FLOOR (TOP OF SLAB) REFERENCE ELEVATION 0'-0", UNO. FOR SLAB ON GRADE CONSTRUCTION, SEE GENERAL NOTES, 2.

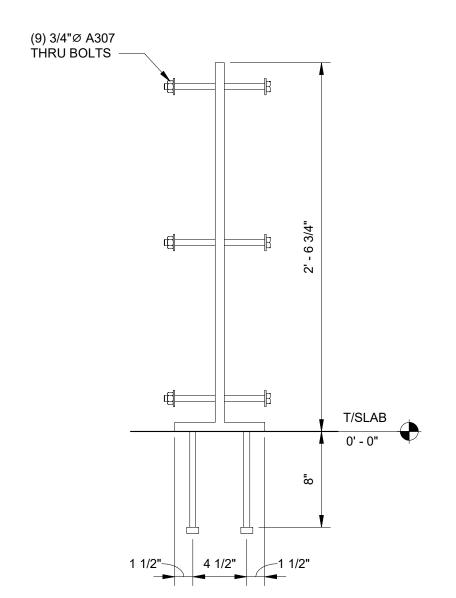
- TYPICAL DETAILS, AND PLAN SHEETS. FOR SLAB SLOPE, RECESSES, AND PENETRATIONS, SEE 3.
- ARCHITECTURAL DRAWINGS. FOR OPENING LOCATION AND SIZES, SEE ARCHITECTURAL 4.
- DRAWINGS.
- ALL WOOD FRAMED WALLS ARE SHEARWALLS. SEE GENERAL NOTES FOR SHEATHING AND NAILING INFORMATION. PROVIDE SIMPSON HDU4-SDS2.5 HOLDOWN WITH 5/8" DIA. x 8" 6.
- TITEN HDSS TYPE 316 AT EACH END OF EACH SHEAR WALL.







5 **DETAIL** SM110 SCALE: 1 1/2" = 1'-0"







Thompson Engineering, Inc. 2970 Cottage Hill Road Ste. 190 Mobile, AL 36606 Tel: 251.666.2443



COPYRIGHT - ALL RIGHTS RESERVED 2020 THIS DRAWING IS THE PROPERTY OF ARCHITECTUREWORKS, LLP, AND IS NOT TO BE REPRODUCED, COPIED OR ALTERED IN WHOLE OR IN PART. THIS DRAWING IS NOT TO BE USED FOR ANY PURPOSE WITHOUT THE APPROVAL OF ARCHITECTUREWORKS, LLP AND IS TO BE RETURNED TO ARCHITECTUREWORKS, LLP UPON REQUEST.

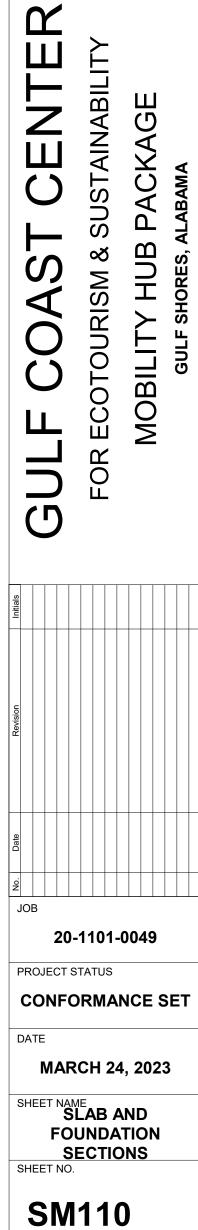
ARCHITECTURE

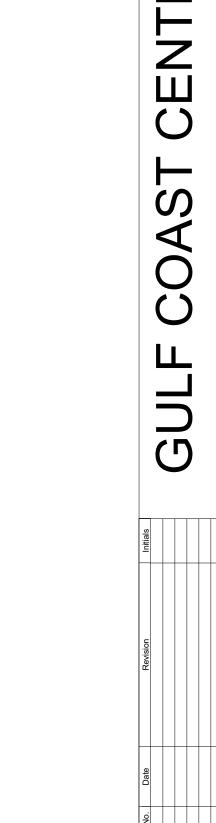
WORKS

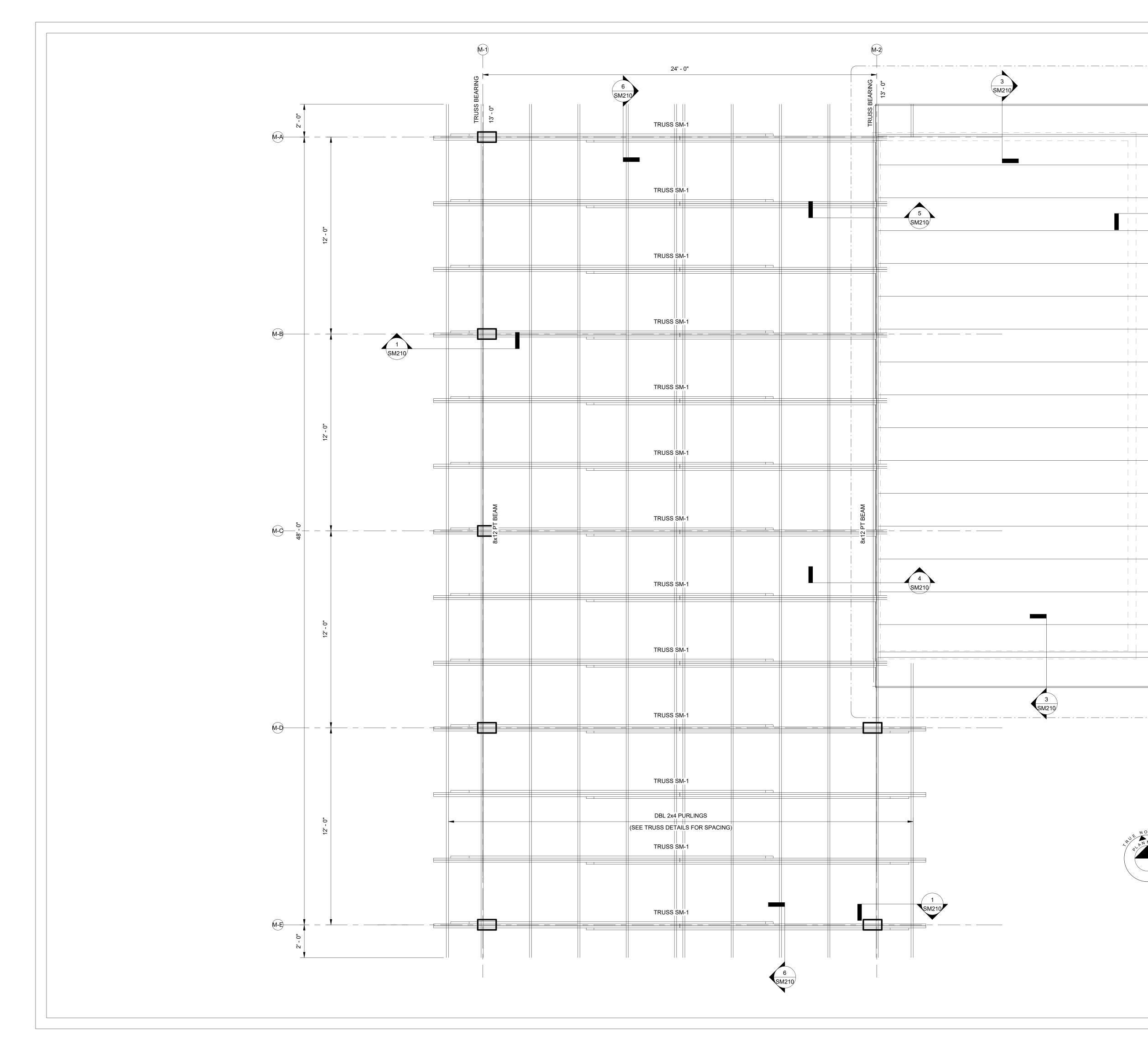
130 NINETEENTH STREET SOUTH BIRMINGHAM, ALABAMA 35233 TELEPHONE: 205.320.0880 www.architectureworks.com

WATERSHED Building Sustainability

302 Magnolia Avenue Fairhope, AL 36532 p 251.929.0514



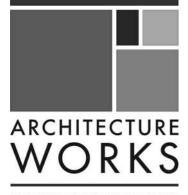






Thompson Engineering, Inc. 2970 Cottage Hill Road Ste. 190 Mobile, AL 36606 Tel: 251.666.2443



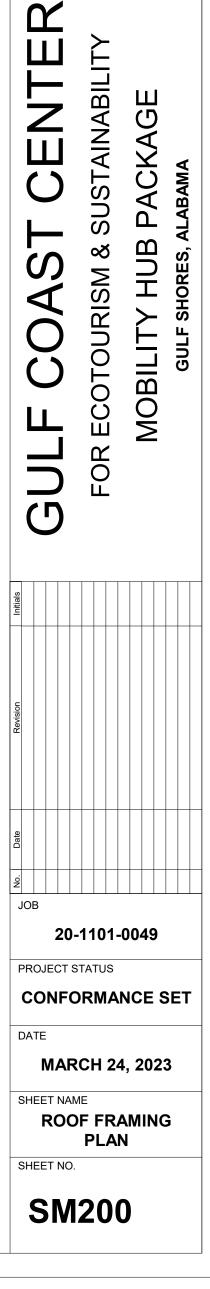


130 NINETEENTH STREET SOUTH BIRMINGHAM, ALABAMA 35233 TELEPHONE: 205.320.0880 www.architectureworks.com

COPYRIGHT - ALL RIGHTS RESERVED 2020 THIS DRAWING IS THE PROPERTY OF ARCHITECTUREWORKS, LLP, AND IS NOT TO BE REPRODUCED, COPIED OR ALTERED IN WHOLE OR IN PART. THIS DRAWING IS NOT TO BE USED FOR ANY PURPOSE WITHOUT THE APPROVAL OF ARCHITECTUREWORKS, LLP AND IS TO BE RETURNED TO ARCHITECTUREWORKS, LLP UPON REQUEST.

WATERSHED Building Sustainability

302 Magnolia Avenue Fairhope, AL 36532 p 251.929.0514





2

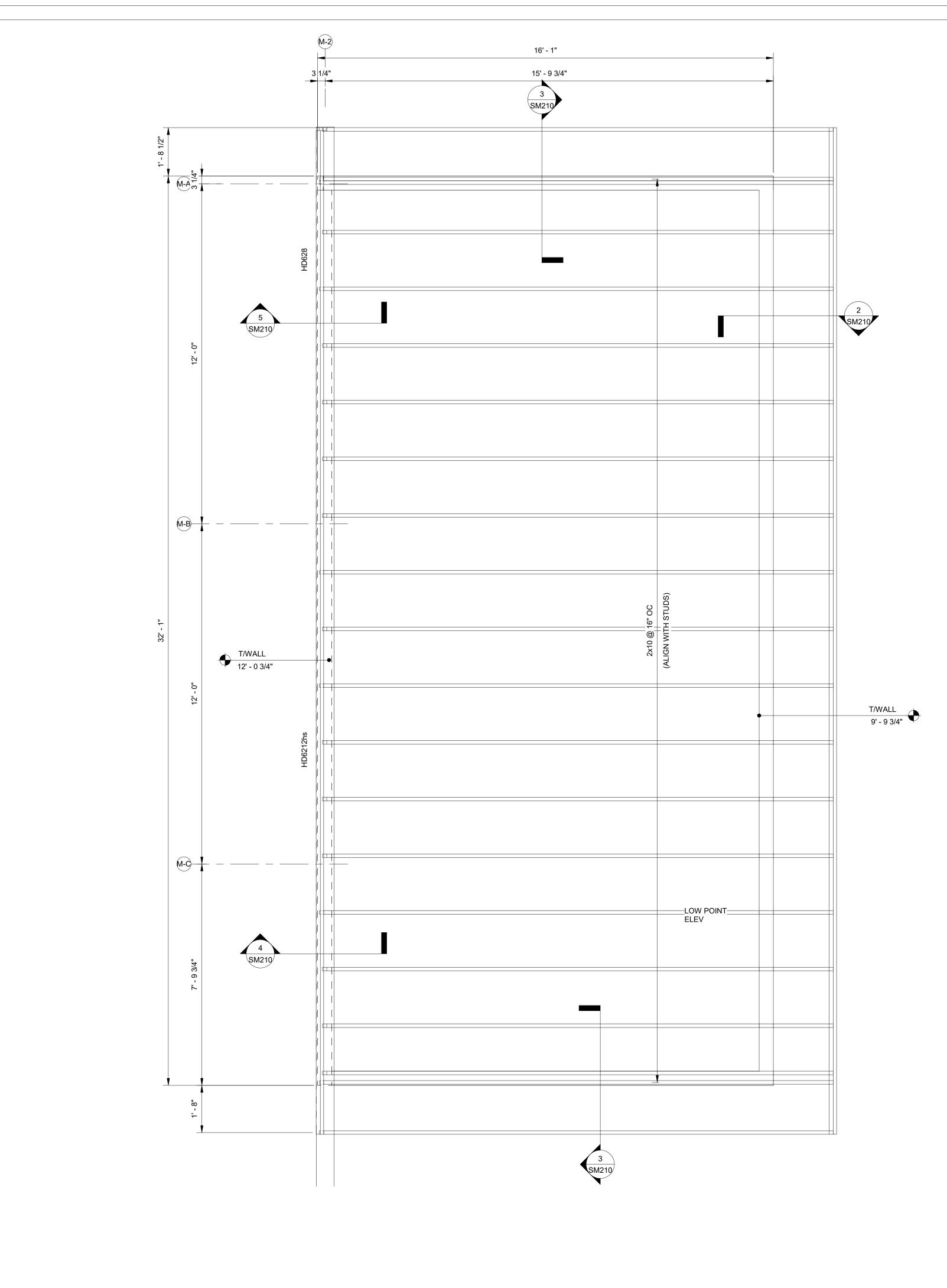
SM210

 $\checkmark$ 

2 SM201

### ROOF FRAMING PLAN SCALE: 3/8" = 1'-0"

- SEE PLAN FOR BEARING ELEVATIONS. FRAMING MEMBERS ARE EITHER LEVEL OR 2.
- SLOPING UNIFORMLY BETWEEN NOTED ELEVATIONS. SEE WOOD FRAMING CONNECTION TABLE FOR
- 3. NAILED CONNECTIONS. WOOD HEADER OVER OPENINGS IS CALLED 4
- OUT AS HDXXX. SEE HEADER SCHEDULE FOR DESIGN AND MAXIMUM ALLOWED SPAN.





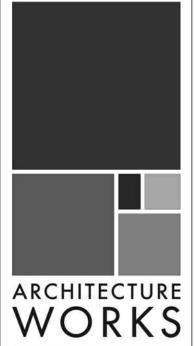
LOW ROOF FRAMING PLAN 2 SCALE: 1/2" = 1'-0"

WOOD HEADER OVER OPENINGS IS CALLED OUT AS HDXXX. SEE HEADER SCHEDULE FOR DESIGN AND MAXIMUM ALLOWED SPAN.



Thompson Engineering, Inc. 2970 Cottage Hill Road Ste. 190 Mobile, AL 36606 Tel: 251.666.2443





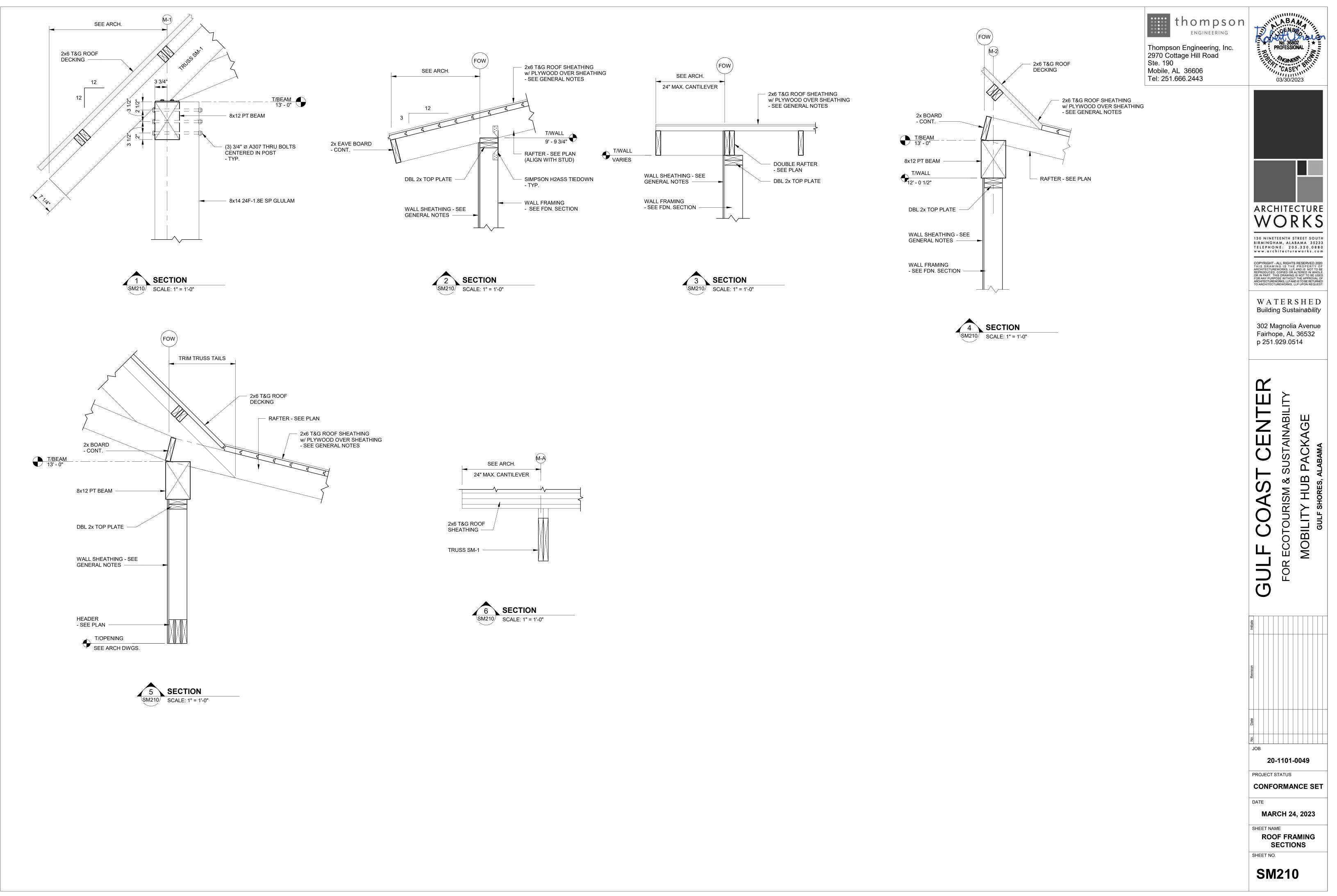
130 NINETEENTH STREET SOUTH BIRMINGHAM, ALABAMA 35233 TELEPHONE: 205.320.0880 www.architectureworks.com

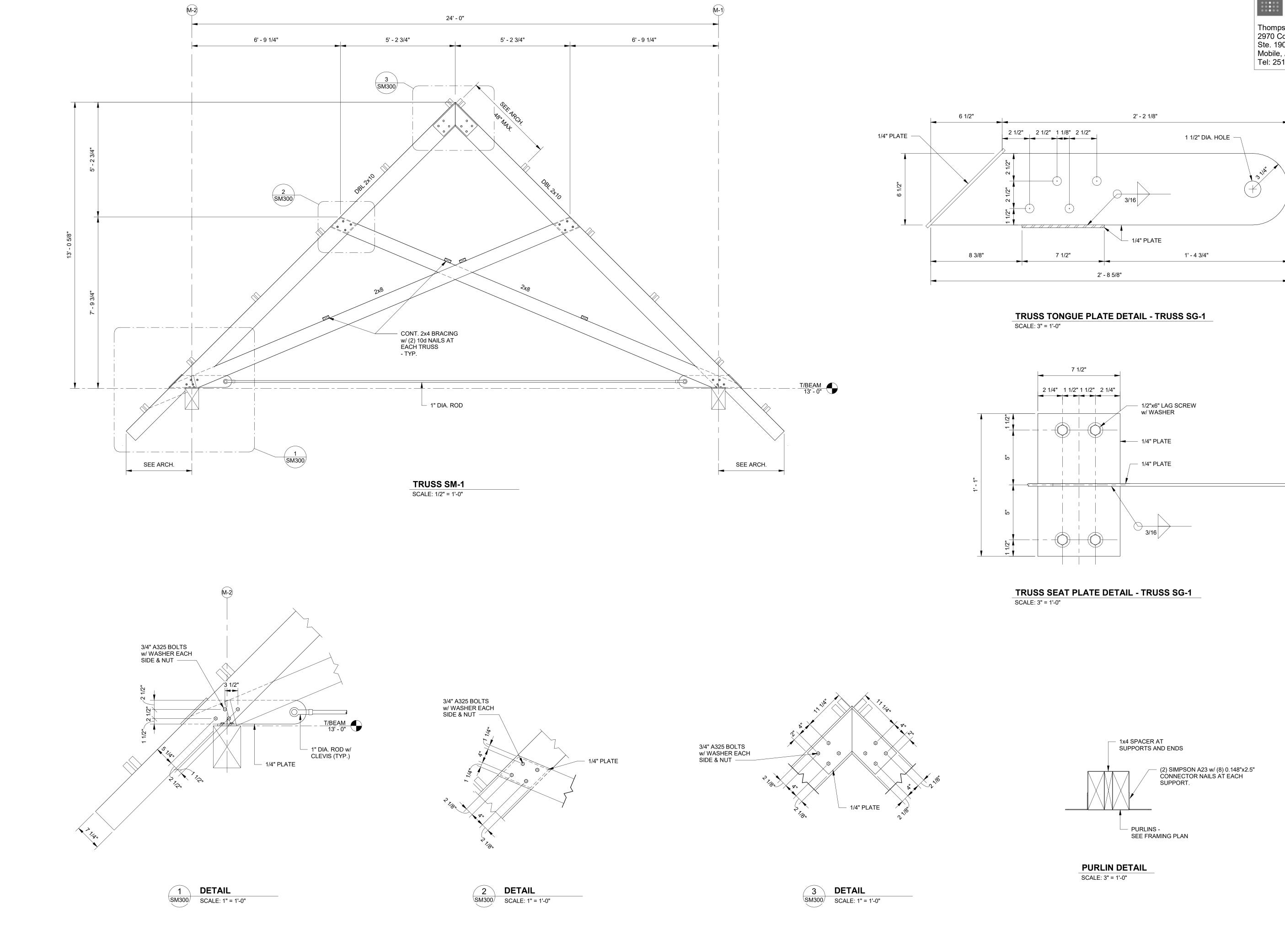
COPYRIGHT - ALL RIGHTS RESERVED 2020 THIS DRAWING IS THE PROPERTY OF ARCHITECTUREWORKS, LLP, AND IS NOT TO BE REPRODUCED, COPIED OR ALTERED IN WHOLE OR IN PART. THIS DRAWING IS NOT TO BE USED FOR ANY PURPOSE WITHOUT THE APPROVAL OF ARCHITECTUREWORKS, LLP AND IS TO BE RETURNED TO ARCHITECTUREWORKS, LLP UPON REQUEST.

WATERSHED Building Sustain*ability* 

302 Magnolia Avenue Fairhope, AL 36532 p 251.929.0514

CENTER FOR ECOTOURISM & SUSTAINABILITY MOBILITY HUB PACKAGE GULF SHORES, ALABAMA COAST GULF JOB 20-1101-0049 PROJECT STATUS CONFORMANCE SET DATE MARCH 24, 2023 SHEET NAME LOW ROOF FRAMING SHEET NO. SM201







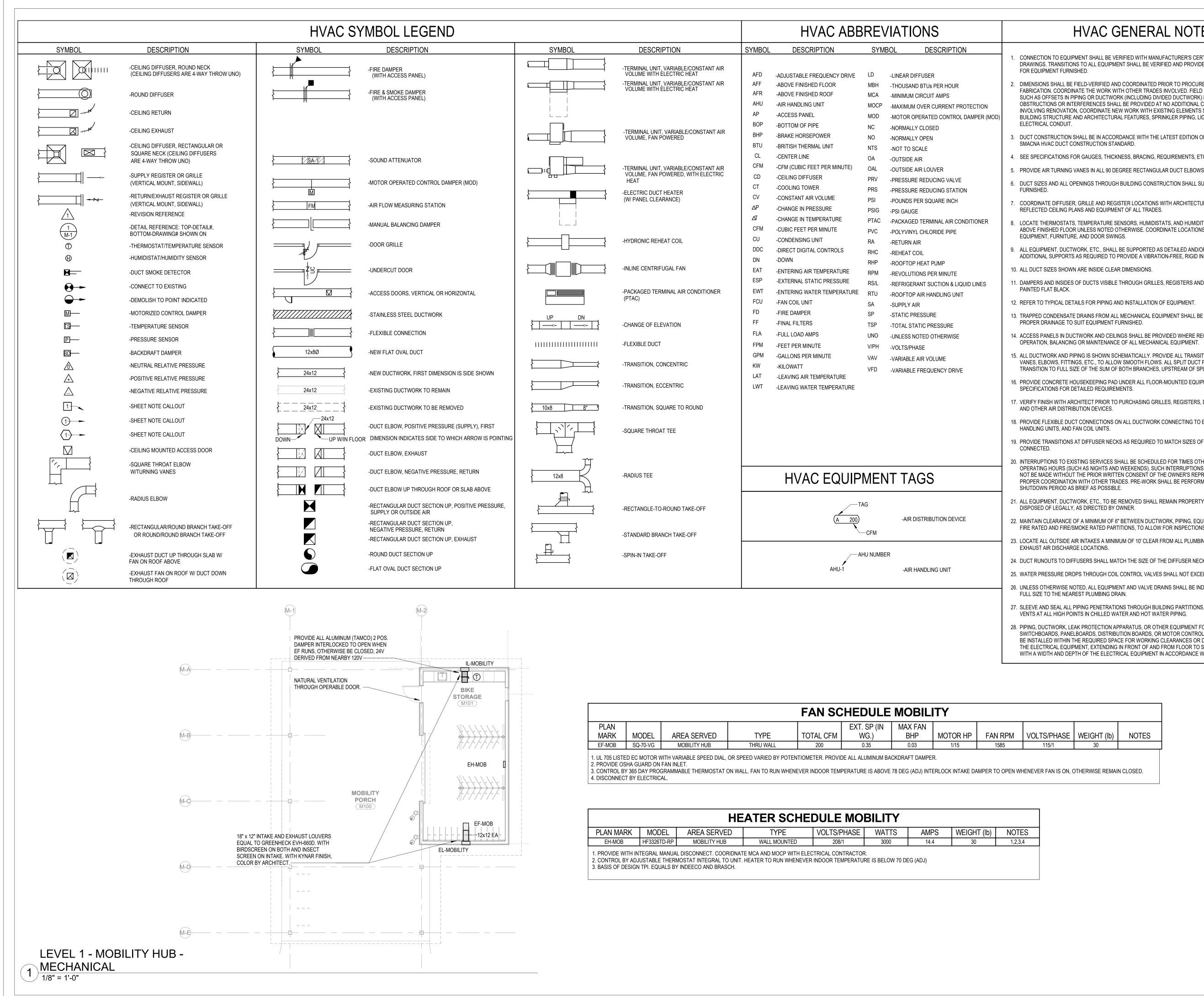
Thompson Engineering, Inc. 2970 Cottage Hill Road Ste. 190 Mobile, AL 36606 Tel: 251.666.2443





SHEET NO.

SM300



FAN SCHEDULE MOBILITY											
PLAN					EXT. SP (IN	MAX FAN					
MARK	MODEL	AREA SERVED	TYPE	TOTAL CFM	WG.)	BHP	MOTOR HP	FAN RPM	VOLTS/PHASE	WEIGHT (lb)	NOTES
EF-MOB	SQ-70-VG	MOBILITY HUB	THRU WALL	200	0.35	0.03	1/15	1585	115/1	30	

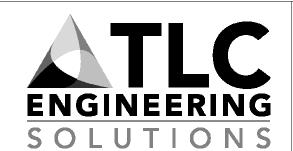
3. CONTROL BY 365 DAY PROGRAMMABLE THERMOSTAT ON WALL. FAN TO RUN WHENEVER INDOOR TEMPERATURE IS ABOVE 78 DEG (ADJ) INTERLOCK INTAKE DAMPER TO OPEN WHENEVER FAN IS ON, OTHERWISE REMAIN CLOSED.

HEATER SCHEDULE MOBILITY								
PLAN MARK	MODEL	AREA SERVED	TYPE	VOLTS/PHASE	WATTS	AMPS	WEIGHT (lb)	NOTES
EH-MOB	HF3326TD-RP	MOBILITY HUB	WALL MOUNTED	208/1	3000	14.4	30	1,2,3,4
2. CONTROL BY AD.	EH-MOBHF3326TD-RPMOBILITY HUBWALL MOUNTED208/1300014.4301,2,3,41. PROVIDE WITH INTEGRAL MANUAL DISCONNECT. COORIDNATE MCA AND MOCP WITH ELECTRICAL CONTRACTOR.2. CONTROL BY ADJUSTABLE THERMOSTAT INTEGRAL TO UNIT. HEATER TO RUN WHENEVER INDOOR TEMPERATURE IS BELOW 70 DEG (ADJ)3. BASIS OF DESIGN TPI. EQUALS BY INDEECO AND BRASCH.							

## **HVAC GENERAL NOTES**

CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED.

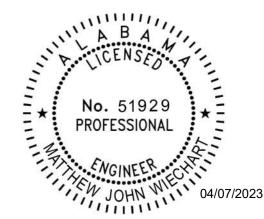
- DIMENSIONS SHALL BE FIELD-VERIFIED AND COORDINATED PRIOR TO PROCUREMENT OR FABRICATION. COORDINATE THE WORK WITH OTHER TRADES INVOLVED. FIELD MODIFICATIONS SUCH AS OFFSETS IN PIPING OR DUCTWORK (INCLUDING DIVIDED DUCTWORK) NEEDED DUE TO OBSTRUCTIONS OR INTERFERENCES SHALL BE PROVIDED AT NO ADDITIONAL COST. FOR PROJECTS INVOLVING RENOVATION. COORDINATE NEW WORK WITH EXISTING ELEMENTS SUCH AS THE BUILDING STRUCTURE AND ARCHITECTURAL FEATURES, SPRINKLER PIPING, LIGHTS, PLUMBING, AND
- DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD.
- SEE SPECIFICATIONS FOR GAUGES, THICKNESS, BRACING, REQUIREMENTS, ETC., OF DUCTWORK.
- DUCT SIZES AND ALL OPENINGS THROUGH BUILDING CONSTRUCTION SHALL SUIT EQUIPMENT
- COORDINATE DIFFUSER, GRILLE AND REGISTER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND EQUIPMENT OF ALL TRADES.
- LOCATE THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, AND HUMIDITY SENSORS AT 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. COORDINATE LOCATIONS WITH OTHER EQUIPMENT, FURNITURE, AND DOOR SWINGS.
- . ALL EQUIPMENT, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION-FREE, RIGID INSTALLATION.
- 11. DAMPERS AND INSIDES OF DUCTS VISIBLE THROUGH GRILLES, REGISTERS AND DIFFUSERS SHALL BE
- 12. REFER TO TYPICAL DETAILS FOR PIPING AND INSTALLATION OF EQUIPMENT.
- 13. TRAPPED CONDENSATE DRAINS FROM ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED FOR PROPER DRAINAGE TO SUIT EQUIPMENT FURNISHED.
- 14. ACCESS PANELS IN DUCTWORK AND CEILINGS SHALL BE PROVIDED WHERE REQUIRED FOR OPERATION, BALANCING OR MAINTENANCE OF ALL MECHANICAL EQUIPMENT.
- 15. ALL DUCTWORK AND PIPING IS SHOWN SCHEMATICALLY. PROVIDE ALL TRANSITIONS, TURNING VANES, ELBOWS, FITTINGS, ETC., TO ALLOW SMOOTH FLOWS. ALL SPLIT DUCT FITTINGS SHALL TRANSITION TO FULL SIZE OF THE SUM OF BOTH BRANCHES, UPSTREAM OF SPLIT.
- 16. PROVIDE CONCRETE HOUSEKEEPING PAD UNDER ALL FLOOR-MOUNTED EQUIPMENT. REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.
- 17. VERIFY FINISH WITH ARCHITECT PRIOR TO PURCHASING GRILLES, REGISTERS, DIFFUSERS, LOUVERS AND OTHER AIR DISTRIBUTION DEVICES.
- 18. PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTWORK CONNECTING TO EACH FAN, AIR HANDLING UNITS, AND FAN COIL UNITS.
- 19. PROVIDE TRANSITIONS AT DIFFUSER NECKS AS REQUIRED TO MATCH SIZES OF FLEX DUCTS TO BE
- INTERRUPTIONS TO EXISTING SERVICES SHALL BE SCHEDULED FOR TIMES OTHER THAN NORMAL OPERATING HOURS (SUCH AS NIGHTS AND WEEKENDS). SUCH INTERRUPTIONS TO SERVICES SHALL NOT BE MADE WITHOUT THE PRIOR WRITTEN CONSENT OF THE OWNER'S REPRESENTATIVE AND PROPER COORDINATION WITH OTHER TRADES. PRE-WORK SHALL BE PERFORMED TO MAKE THE SHUTDOWN PERIOD AS BRIEF AS POSSIBLE.
- 21. ALL EQUIPMENT, DUCTWORK, ETC., TO BE REMOVED SHALL REMAIN PROPERTY OF THE OWNER OR DISPOSED OF LEGALLY, AS DIRECTED BY OWNER.
- 22. MAINTAIN CLEARANCE OF A MINIMUM OF 6" BETWEEN DUCTWORK, PIPING, EQUIPMENT, ETC., AND ALL FIRE RATED AND FIRE/SMOKE RATED PARTITIONS, TO ALLOW FOR INSPECTIONS OF RATED WALLS. 23. LOCATE ALL OUTSIDE AIR INTAKES A MINIMUM OF 10' CLEAR FROM ALL PLUMBING VENTS AND
- 24. DUCT RUNOUTS TO DIFFUSERS SHALL MATCH THE SIZE OF THE DIFFUSER NECK.
- 25. WATER PRESSURE DROPS THROUGH COIL CONTROL VALVES SHALL NOT EXCEED 5 PSI.
- 26. UNLESS OTHERWISE NOTED, ALL EQUIPMENT AND VALVE DRAINS SHALL BE INDEPENDENTLY PIPED FULL SIZE TO THE NEAREST PLUMBING DRAIN.
- 27. SLEEVE AND SEAL ALL PIPING PENETRATIONS THROUGH BUILDING PARTITIONS. PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS IN CHILLED WATER AND HOT WATER PIPING.
- 28. PIPING, DUCTWORK, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO ELECTRICAL SWITCHBOARDS, PANELBOARDS, DISTRIBUTION BOARDS, OR MOTOR CONTROL CENTERS SHALL NOT BE INSTALLED WITHIN THE REQUIRED SPACE FOR WORKING CLEARANCES OR DEDICATED SPACES OF THE ELECTRICAL EQUIPMENT, EXTENDING IN FRONT OF AND FROM FLOOR TO STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC-110.26.



13099 S. Cleveland Avenue, Suite 500 Fort Myers, FL 33907 P 239.275.4240 www.tlc-engineers.com

### COA 15

© Copyright 2019 TLC Engineering Solutions, Inc. TLC Project No.: 719179 THINK. LISTEN. CREATE.



This item has been electronically signed and sealed by Matthew Wiechart, PE on the date adjacent to this seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

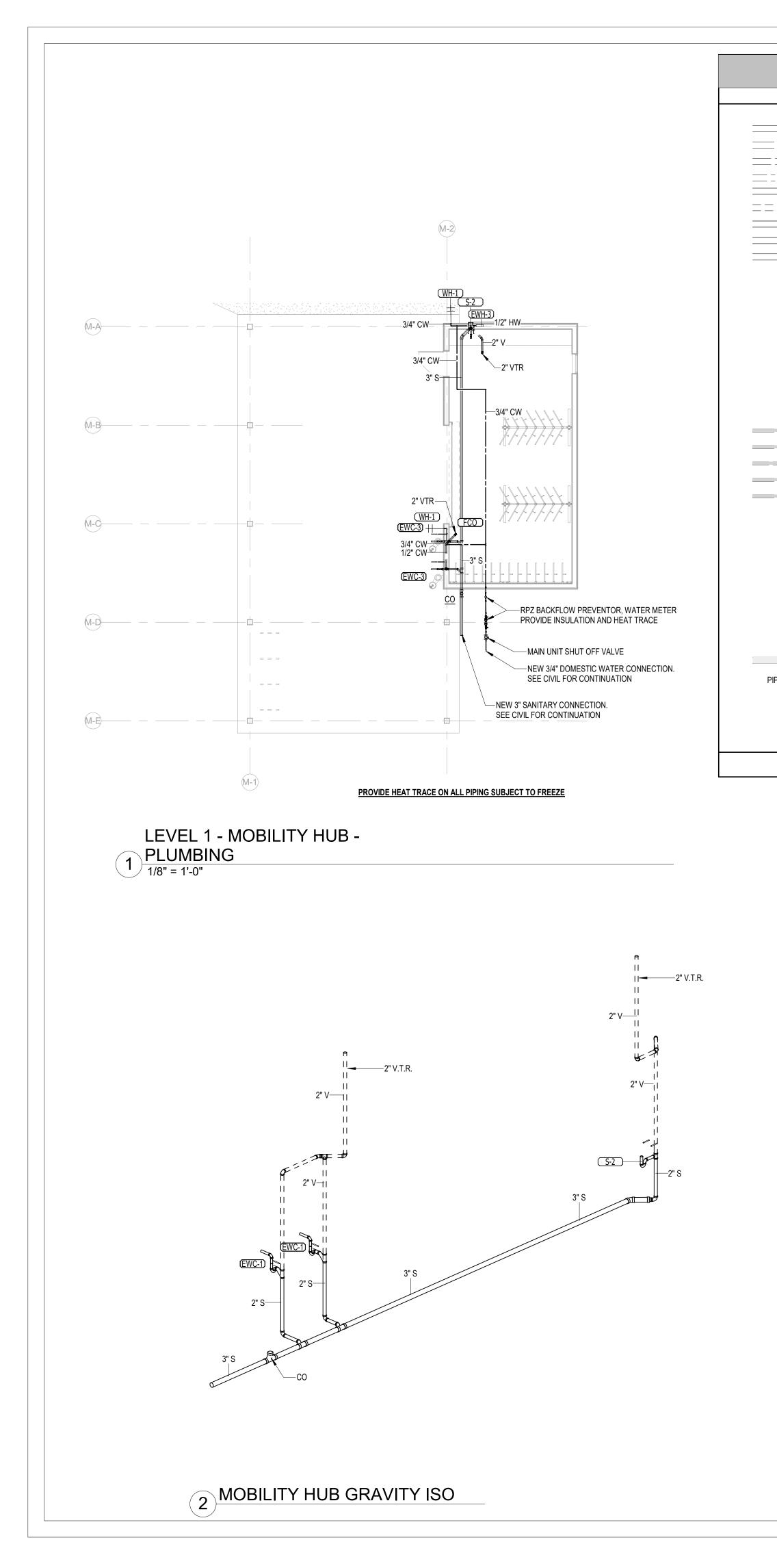


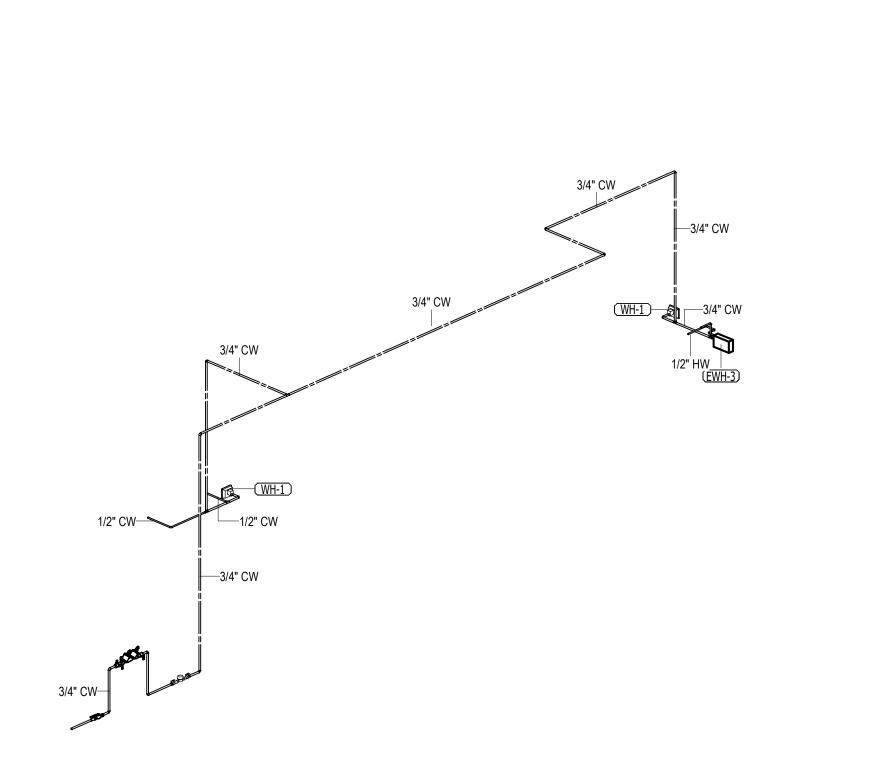
**≻** Ŷ BIL Ζ C X Ш Ś  $\mathbf{O}$ S Ш Š S  $\exists$ **FOURISM** Т O  $\bigcirc$ Ö Ŭ Ш SО В C JOB 19-028.000 PROJECT STATUS **CONFORMANCE SET** DATE MARCH 24, 2023 SHEETMECHANICAL LEGEND,

**MM001** 

FLOORPLAN, AND

SHEET SCHEDULE





PLUME	BING SYMBOLS	PLUMBING ABBREVIATIONS		
SYMBOL	DESCRIPTION	ABBREVIATION DESCRIPTION		
			1.	REFER
CD	- CONDENSATE DRAIN PIPING	CA - COMPRESSED AIR AFF - ABOVE FINISH FLOOR	2.	THE PL
CW	- DOMESTIC COLD WATER PIPING	AW - ACID WASTE	3.	UTILITIE
— HW	- DOMESTIC HOT WATER PIPING	AV - ACID VENT CB - CATCH BASIN		BUILT F NEW W
HWR	- DOMESTIC HOT WATER RETURN PIPING	CD - CONDENSATE DRAIN		WITH O
S	- SANITARY WASTE PIPING	CFH - CUBIC FEET PER HOUR CO - CLEANOUT		CONST
V	- VENT PIPING	CONT - CONTINUATION	4.	FIELD \
ST	- STORM DRAIN PIPING	CW - DOMESTIC COLD WATER DI - DEIONIZED WATER		REMAIN
STO	- OVERFLOW STORM DRAIN PIPING	DN - DOWN	5.	NOTIFY
G	- FUEL GAS PIPING	DS - DOWNSPOUT DWG - DRAWING		DISCON
0		EXIST - EXISTING		LEFT D
	- HOSE BIBB OR WALL HYDRANT	°F - DEGREE FAHRENHEIT FCO - FLOOR CLEANOUT	6.	PLANS
	- CLEANOUT PLUG	FD - FLOOR DRAIN		INTEND OFFSE
		FOF - FUEL OIL FILL		VERIFY
<u>co</u> 🕰	- WALL CLEANOUT	FOG - FUEL OIL GAGE FOR - FUEL OIL RETURN		OBSTR
		FOS - FUEL OIL SUPPLY	7.	PROVIE
	- FLOOR CLEANOUT / EXTERIOR CLEANOUT	FOV - FUEL OIL VENT FS - FLOOR SINK	8.	CONCE
FD 🌐	- FLOOR DRAIN	FSE# - FOODSERVICE EQUIPMENT NUMBER	0.	OR AS
FS I	- FLOOR SINK	G - GAS GPH - GALLONS PER HOUR	9.	PROVID
		GPM - GALLONS PER MINUTE	9.	CEILING
DD	- DECK DRAIN	GR - KITCHEN WASTE (GREASE) HB - HOSE BIBB	10	
×	- SHUT-OFF VALVE	HD - HUB DRAIN	10.	SLEEVE FLOOR
	- BALL VALVE	HW - DOMESTIC HOT WATER HWR - DOMESTIC HOT WATER RECIRCULATING		THE RA
,0,		IE - INVERT ELEVATION		FINISHE
X	- CALIBRATED BALANCING VALVE	IW - INDIRECT WASTE	11.	FLASH
	- CHECK VALVE (SWING)	KW - KILOWATT LBS - POUNDS	12.	WHEN
×	- PRESSURE REDUCING VALVE	MH - MANHOLE	12.	TRADE
		NC - NORMALLY CLOSED NIC - NOT IN CONTRACT	13.	PROVIE
		NO - NORMALLY OPEN	10.	SLEEVE
		NP - NON-POTABLE WATER NTS - NOT TO SCALE	14	SEE AR
		OD - OUTSIDE DIAMETER	14.	SEE AR
		PRV - PRESSURE REDUCING VALVE PSI - POUNDS PER SQUARE INCH	15.	PROVID
$\begin{pmatrix} 4 \end{pmatrix}$		PVC - POLYVINYL CHLORIDE PIPE	16.	PROVID
P4.101	- DETAIL REFERENCE	RD - ROOF DRAIN RRW - RECYCLED RAIN WATER		APPLIA
		RPBP - REDUCED PRESSURE BACKFLOW PREVENTOR	17.	ALL EX
SHEET №. SHOWN		SAN - SANITARY		
ON		SD - STORM DRAIN SF - SQUARE FEET	18.	MOUNT
4" S	- PIPE TAG	SH - SHEET	19.	PROVID
		ST - STORM STO - OVERFLOW STORM DRAIN		WITH C
		SW - SOFT COLD WATER	20.	COORE
^		V - VENT VAC - VACUUM		DRAINS
$\underline{1}$	- REVISION REFERENCE	VC - VACUUM CLEANING	21.	COORE
		VTR - VENT THRU ROOF WCO - WALL CLEANOUT		TO ANY
		WTR - WATER		CIRCUN COST.
NIC		GEND MAY NOT PERTAIN TO THIS PROJECT		
NC			22.	ALL WA DESIGN
			23.	PROVID

RATING OF 50. GARD.

LINGS. SHES.

## PLUMBING GENERAL NOTES

ERENCE THE SPECIFICATIONS FOR MATERIAL AND EQUIPMENT INSTALLATION STANDARDS. PLUMBING INSTALLATION SHALL COMPLY WITH ALL STATE AND LOCAL CODES.

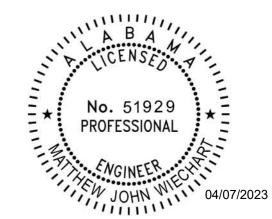
- LITIES AND SERVICES INDICATED ARE TAKEN FROM VARIOUS OLD AND NEW SURVEYS, AS-LT RECORDS AND FIELD INVESTIGATIONS. UNFORSEEN CONDITIONS PROBABLY EXIST AND V WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON DRAWINGS. COOPERATION H OTHER TRADES IN ROUTING AND BURIAL DEPTHS, AS DETERMINED DURING NSTRUCTION, WILL BE NECESSARY.
- D VERIFY EXISTING INSTALLATIONS. MODIFY EXISTING PLUMBING SYSTEMS, WHICH ARE TO IAIN ACTIVE, TO FACILITATE RECONNECTION AND EXTENSION OF THE NEW WORK.
- FIFY OWNER AT LEAST 24 HOURS PRIOR TO INTERRUPTING EXISTING SERVICE. SCHEDULE CONNECTION AND TIE-INS TO MINIMIZE DISRUPTION OF SERVICES. SERVICES ARE NOT TO BE T DISRUPTED DURING NON-NORMAL CONTRACTOR WORKING HOURS.
- NS ARE NOT COMPLETELY TO SCALE. PIPE ROUTING SHOWN IS SCHEMATIC AND IS NOT ENDED TO INDICATE EXACT ROUTING. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL SETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES. RIFY STRUCTURAL, MECHANICAL AND ELECTRICAL INSTALLATIONS AND OTHER POTENTIAL STRUCTIONS AND ROUTE PIPING TO AVOID INTERFERENCES.
- DVIDE ALL OFFSETS AND FITTINGS AND MAKE CONNECTION TO SITE UTILITIES.
- NCEAL PIPING ABOVE CEILINGS, WITHIN WALLS OR CHASES EXCEPT IN MECHANICAL ROOMS AS SPECIFICALLY NOTED.
- DVIDE ACCESS PANELS FOR ALL VALVES CONCEALED IN WALLS OR ABOVE NON-ACCESSIBLE
- EVE AND/OR FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS, CEILINGS, AND ORS WITH U/L LISTED ASSEMBLIES. FIRESTOP ASSEMBLIES SHALL BE EQUAL TO OR EXCEED RATING OF THE WALL, CEILING OR FLOOR. SEE ARCHITECTURAL DRAWINGS FOR FINAL
- SH AND COUNTER-FLASH ROOF PENETRATIONS.
- EN BEAM SLEEVE PENETRATIONS ARE NECESSARY, COORDINATE PENETRATIONS WITH ALL DES, THE ARCHITECT AND THE STRUCTURAL ENGINEER.
- DVIDE FOUNDATION PAD PENETRATION SLEEVES. ALLOW 1" MINIMUM CLEARANCE BETWEEN EVE INSIDE SURFACE AND PIPE EXTERIOR.
- ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
- OVIDE AUTOMATIC TRAP PRIMERS FOR FLOOR DRAIN TRAP SEALS.
- DVIDE AN AIR GAP, WHEN REQUIRED BY CODE, SERVING INDIVIDUAL FIXTURES, DEVICES, LIANCES AND APPARATUS.
- EXPOSED PIPE AND FITTINGS IN FINISHED AREAS SHALL BE CHROME PLATED.
- UNT HOSE BIBBS 24" ABOVE FINISHED GRADE.
- DVIDE CLEANOUTS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES. INSTALL CLEANOUT H COVER FLUSH TO FINISH SURFACE.
- DRDINATE EXACT FLOOR DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS. SET FLOOR AINS BELOW FINISHED FLOOR TO ALLOW FOR FLOOR SLOPING TO THE DRAIN.
- DRDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.) PRIOR ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CUMSTANCES. ANY PIPING RUN OVER PANELS SHALL BE RE-ROUTED AT NO ADDITIONAL
- WALL MOUNTED LAVATORIES SHALL BE ATTACHED TO FLOOR MOUNTED CARRIER BIGNED TO WITHSTAND A VERTICAL LOAD OF 250 POUNDS ON THE FRONT OF THE FIXTURE.
- PROVIDE SANITARY WASTE, VENT, DOMESTIC WATER, ETC. ROUGH-IN AND MAKE FINAL CONNECTIONS (TO INCLUDE PROVIDING ALL NECESSARY RELATED STOPS, VALVES, TRAPS, ETC. AND MAKE READY FOR USE) TO ALL EQUIPMENT, WHETHER FURNISHED BY THIS CONTRACTOR OR FURNISHED BY OTHERS.
- 24. ALL MATERIALS AND EQUIPMENT INSTALLED IN RETURN AIR PLENUMS SHALL BE NON-COMBUSTIBLE AND UL APPROVED FOR USE IN A RETURN AIR PLENUM SPACE. IF MATERIALS ARE NOT NON-COMBUSTIBLE IN RETURN AIR PLENUMS, THEY SHALL BE REPLACED OR WRAPPED WITH A UL LISTED FIRE RATED FIRE WRAP (I.E. FYREWRAP 0.5 PLENUM INSULATION OR APPROVED EQUAL) AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURES UL LISTED DETAILS AND RECOMMENDATIONS AT NO ADDITIONAL COST. (NOTE: REFER TO MECHAICAL DRAWINGS FOR RETURN AIR PLENUM LOCATIONS.)
- 25. PIPING, INSULATION, FITTINGS, MATERIALS, COVERS AND FINISHES IN RETURN AIR PLENUM SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED
- 26. INSTALL POINT OF USE MIXING VALVES FOR ALL HAND SINKS. BASIS OF DESIGN: ZURN AQUA
- 27. NSF-61-G COMPLIANCE: PRODUCTS IN CONTACT WITH DOMESTIC WATER FOR HUMAN CONSUMPTION SHALL MEET NSF-61-G AND CONTAIN LESS THAN 0.25% (WEIGHTED AVERAGE) OF LEAD. ALL PRODUCTS SHALL BE LABELED WITH THE CERTIFICATION MARK NSF-61-G2 28. CLEAN AND DISINFECT POTABLE AND NON-POTABLE DOMESTIC WATER PIPING REFER TO PLUMBING SPECIFICATION DOEMSTIC WATER PIPING FOR ADDITIONAL INFORAMTION.



13099 S. Cleveland Avenue, Suite 500 Fort Myers, FL 33907 P 239.275.4240 www.tlc-engineers.com

### COA 15

© Copyright 2019 TLC Engineering Solutions, Inc. TLC Project No.: 719179 THINK. LISTEN. CREATE.



This item has been electronically signed and sealed by Matthew Wiechart, PE on the date adjacent to this seal. Printed copies of this document are not

considered signed and sealed and the signature must be verified on any electronic copies.



WATERSHED Building Sustainability

302 Magnolia Avenue Fairhope, AL 36532 p 251.929.0514

Σ R Ш BIL TAINA Ш Ζ C X C Ś  $\mathbf{O}$  $\supset$ 1 S HUB Š S ECOTOURISM MOBILITY | GULF SH 0  $\bigcirc$ Ш GUL FOR <u>°</u> JOB 19-028.000 PROJECT STATUS **CONFORMANCE SET** DATE

MARCH 24, 2023

SHEET PLUMBING SYMBOLS, LEGEND, NOTES AND INDEX



	BASIC M	ATERIALS	
SYMBOL	DESCRIPTION	SYMBOL	DESCF
DEVICE ABBR	EVIATION TAGS:	МН	MANHOLE
TR	TAMPER RESISTANT	РВ	PULLBOX
TV	RECEPTACLE MOUNTED ADJACENT TO TV OUTLET, COORDINATE HEIGHT W/ ARCHITECT	НН	HANDHOLE
U WP	DUPLEX RECEPTACLE WITH (2) USB PORTS WEATHERPROOF	Т	TRANSFORMER
Sa	SINGLE POLE SWITCH (SUBSCRIPT INDICATES ITEM CONTROLLED)	ATS 🔀	AUTOMATIC TRANSFER SWITCH — NEMA RATING; NEMA 1 UNLE
S <sub>3</sub>	THREE-WAY SWITCH	L <u>30AR</u> 3R	NON-FUSED DISCONNECT SWITC NF = NON-FUSED
s <sub>4</sub> s <sub>K</sub>	FOUR-WAY SWITCH SINGLE POLE KEY SWITCH		AR = AMPERE RATING OF SW 4X SS = NEMA 4X STAINLESS
s <sub>k</sub> S <sub>T</sub>	DIGITAL TIMER SWITCH W/ 5 MIN. WARNING FLASH WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH,		NEMA RATING; NEMA 1 UNLE
S <sub>OSab</sub>	DUAL RELAY	L <u>30AR</u> 3R	FUSED DISCONNECT AF = AMPERE RATING OF FU AR = AMPERE RATING OF SW
s <sub>os</sub> s <sub>vs</sub>	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR SWITCH		4X SS = NEMA 4X STAINLESS
s <sub>D,OS</sub>	WALL MOUNTED DUAL TECHNOLOGY DIMMING/OCCUPANCY SENSOR SWITCH	MCP AMPERE	
s LV	LOW VOLTAGE SWITCH		COMBINATION MAGNETIC MOTO
s sovd s <sup>2∨d</sup>	LOW VOLTAGE OVERRIDE SWITCH LOW VOLTAGE OVERRIDE SWITCH WITH DIMMING		UNLESS OTHERWISE NOTED 4X SS = NEMA 4X STAINLESS
SF	FAN SWITCH		
SM	MOTOR RATED SWITCH		SWITCHBOARD/ SWITCHGEAR/ D
s <sub>d</sub> OS ®	DIMMER SWITCH, LINE VOLTAGE WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR		BRANCH CIRCUIT PANELBOARD,
(4) ♥ (3) ®	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR		BRANCH CIRCUIT PANELBOARD,
00	DAYLIGHT SENSOR CEILING MOUNTED		BRANCH CIRCUIT PANELBOARD,
<u>_</u> _	DAYLIGHT SENSOR WALL MOUNTED		BRANCH CIRCUIT PANELBOARD,
(VS)	VACANCY SENSOR CEILING MOUNTED		CONDUIT CONCEALED ABOVE C
(S)-	VACANCY SENSOR WALL MOUNTED		CONDUIT EXPOSED
@-	PHOTOCELL, MOUNTED ON ROOF FACING NORTH NOTE: DIAGONAL MARKS INDICATED ON ANY DEVICE		CONDUIT CONCEALED IN SLAB, U
¥Ψ	REPRESENTS DEVICE CONNECTED TO EMERGENCY CIRCUIT (RED DEVICE FOR RECEPTACLE); TYPICAL FOR ANY DEVICE IN		CONDUIT HOMERUN TO ELECTR
Ө-	LEGEND SINGLE RECEPTACLE	O	CONDUIT TURNING UP
0 E	DUPLEX RECEPTACLE	•DN	CONDUIT TURNING DOWN
<b>₽</b>	TWO DUPLEX RECEPTACLES (QUAD) WITH COMMON COVERPLATE		CONDUIT STUBBED OUT OR UP CONDUIT CONTINUED
⊜≕ ∯≕	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TWO DUPLEX RECEPTACLES (QUAD) WITH COMMON COVER MOUNTED	$\sim$	FLEXIBLE CONDUIT
₩- 0	ABOVE COUNTER DUPLEX RECEPTACLE; EACH RECEPTACLE ON SEPARATE CIRCUIT		CONDUIT SEAL-OFF FITTING
¢=	(PROVIDE BREAKER WITH 2-POLE COMMON TRIP HANDLE) SPLIT-WIRED CONTROLLED DUPLEX RECEPTACLE	u <del> </del>	GROUND OR GROUND ROD AS N
₽ ■	GFCI RECEPTACLE; "WP" INDICATES CAST METAL "IN-USE"		EXISTING TO BE REMOVED (HEA
₽	WEATHERPROOF COVER, WEATHER-RESISTANT LISTED TWO GFCI DUPLEX RECEPTACLES (QUAD) WITH COMMON COVERPLATE		EXISTING TO REMAIN (LIGHT, SC
₩ ■=	GFCI RECEPTACLE MOUNTED ABOVE COUNTER		NEW (HEAVY, SOLID LINE)
$\bigcirc$	DUPLEX RECEPTACLE, CEILING MOUNTED TWO DUPLEX RECEPTACLES (QUAD) WITH COMMON COVERPLATE,		LIGHTIN
	CEILING MOUNTED		
	PEDESTAL MOUNTED DUPLEX RECEPTACLE		LED OR FLUORESCENT STRIP FI
© ∰	FLOOR BOX WITH DUPLEX RECEPTACLE WITH APPROPRIATE FLANGE		LED OR FLUORESCENT FIXTURE SURFACE CEILING
	MULTI-SERVICE FLOOR BOX WITH DUPLEX RECEPTACLE,	2 a ZX-	LOWER CASE LETTER INDIC
	VOICE/DATA/AV DEVICES (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS)	X	LIGHTING CONTROL ZONE
$\mathbf{A}$	MULTI-SERVICE FLOOR BOX WITH TWO DUPLEX RECEPTACLES (QUAD) , VOICE/DATA/AV DEVICES (REFER TO TECHNOLOGY DRAWINGS OR		CEILING
د د	OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS) MULTI-SERVICE POWER & DATA FLOOR BOX WITH FURNITURE FEED		DIAGONAL HALF SHADING INDIC EMERGENCY CIRCUIT OR PROVI
	CONNECTION (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS)		BATTERY PACK; "E" AFTER FIXTI BATTERY PACK UNLESS OTHER
Ŷ	SPECIAL PURPOSE RECEPTACLE, NEMA CONFIGURATION AS NOTED		SCHEDULE (TYPICAL FOR ALL LI
φ	JUNCTION BOX WALL MOUNTED		LED OR FLUORESCENT FIXTURE
$\bigcirc$	JUNCTION BOX MOUNTED IN OR ABOVE CEILING OR IN STRUCTURE	0	LED, FLUORESCENT, HID, RECES
φ	WALL MOUNTED FURNITURE FEED POWER CONNECTION	ю	LED, FLUORESCENT, HID, WALL
' פ	POWER POLE WITH POWER & DATA FURNITURE FEED POWER	$\diamond$	LED, FLUORESCENT, HID - CEILI
	CONNECTIONS		LANDSCAPING TREE ACCENT LIC TRACK WITH TRACK LIGHT FIXTO
PP	POWER POLE WITH POWER & DATA OUTLETS MULTI-SERVICE POKE-THRU WITH TWO INTEGRAL DUPLEX		TRACK WITH TRACK LIGHT FIXIN TRACK HEADS)
®	RECEPTACLES AND VOICE/DATA/AV DEVICES (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE		EMERGENCY TWIN-HEAD LIGHT MOUNTED
	REQUIREMENTS), OR FURNITURE FEED CONNECTION; REFER TO POKE- THRU DETAILS		LINEAR FLUORESCENT, LED, RE CEILING
	MULTI-SERVICE RACEWAY WITH 5-20R RECEPTACLES, 18" O.C. UNLESS OTHERWISE NOTED		EXTERIOR POLE-MOUNTED ARE
Ç	CLOCK RECEPTACLE, WALL MOUNTED		INDICATED ON DRAWINGS EXTERIOR PEDESTRIAN SIDEWA
	GROUND BUS BAR, COPPER	Ô	FIXTURE EXIT LIGHT, LED, CEILING OR PE
SPD	SURGE PROTECTIVE DEVICE	8	ARROWS AS INDICATED; SHADE FIXTURE
ST	SHUNT-TRIP PUSHBUTTON; SEMI-FLUSH WALL MOUNTED UNLESS OTHERWISE NOTED; NEMA 3R FOR EXTERIOR LOCATIONS	H⊗	EXIT LIGHT, LED, WALL MOUNTE
EPO	EMERGENCY POWER OFF SHUNT-TRIP PUSHBUTTON, RED		
	MUSHROOM HEAD, CLEAR LEXAN PROTECTIVE COVER OVERHEAD DOOR PUSHBUTTON CONTROL STATION		
	MOTOR CONNECTION MOTORIZED DAMPER CONNECTION		
VFD	VARIABLE FREQUENCY DRIVE		
<u> </u>	DIRECT DIGITAL CONTROL PANEL		
DDC	DIRECT DIGITAL CONTROL PANEL		
DDC BAS LCP	BUILDING AUTOMATION SYSTEM CONTROL PANEL		

## ELECTRICAL SYMBOL LEGEND

## FIRE ALARM / DETECTION SYSTEM

#### S<u>XMBO</u>L IPTION LEGACY F F § 🗙 \$ OTHERWISE NOTED ⟨S⟩<sub>BR</sub> −B<sub>R</sub> RATING AS NOTED ТСН STEEL ENCLOSURE (H) (H)S OTHERWISE NOTED R R TCH X -07 STEEL ENCLOSURE ض F¶ SS OTHERWISE NOTED XXCD XXCD STARTER, SIZE AS NOTED, 3-POLE Ę\ H∎ XXCD XXCD STEEL ENCLOSURE ⊠¶ FS STRIBUTION PANEL OVER 240 VOLTS, SURFACE MOUNTED SI €S OVER 240 VOLTS, FLUSH MOUNTED ๊**S**◀ -§§ ⊬X́-€ UNDER 240 VOLTS, SURFACE MOUNTED **C** -P UNDER 240 VOLTS, FLUSH MOUNTED VS ILING OR IN WAL WS FS PS PS NDERGROUND OR UNDER FLOOR CAL PANEL FACP FACP FATCFATCFAAFAAEVACEVAC

MNS MNS

DACT DACT

DTED , DASHED LINE) ID LINE)

TURE

RECESSED, PENDANT OR ATES CONTROLLING SWITCH

JMBER RECESSED, PENDANT OR SURFACE

TE FIXTURE CONNECTED TO DED WITH INTEGRAL EMERGENCY RE TYPE TAG INDICATES INTEGRAL ISE NOTED ON LIGHT FIXTURE HT FIXTURE SYMBOLS)

WALL MOUNTED

SED, PENDANT OR SURFACE CEILING OUNTED

WALLWASHER, ACCENT LIGHT, HT, FACADE LIGHT RE (TRIANGLES INDICATE QUANTITY OF

WITH INTEGRAL BATTERY PACK, WALL

ESSED, PENDANT OR SURFACE

LIGHT FIXTURE, ARMS AS

K BOLLARD OR POST-TOP LIGHT

IDANT MOUNTED; DIRECTIONAL QUADRANT INDICATES FACE(S) OF

QL	DESCRIPTION
ACY	
F	MANUAL PULL STATION
	CEILING SMOKE DETECTOR, PHOTOELECTRIC TYPE UNLESS OTHERWISE NOTED E = ELEVATOR WITH RECALL CONTACTS I = IONIZATION
	DUCT SMOKE DETECTOR R = RETURN S = SUPPLY
-B <sub>R</sub>	BEAM SMOKE DETECTOR BR OR R = BEAM DETECTOR RECEIVER BT OR T = BEAM DETECTOR TRANSMITTER
(H)	HEAT DETECTOR 135°F FIXED TEMPERATURE, UNLESS OTHERWISE NOTED, CEILING MOUNTED
R RT	SUPERVISED ADDRESSABLE FIRE ALARM CONTROL RELAY DUCT SMOKE DETECTOR REMOTE TEST SWITCH WITH INDICATING LAMP, WALL MOUNTED AT 48" AFF, UNLESS OTHERWISE NOTED
F <b>⊲</b> XXCD	COMBINATION <u>SPEAKER/STROBE</u> , WALL MOUNTED, 75CD UNLESS OTHERWISE NOTED CD = CANDELA RATING
Ш∎	HORN ONLY, WALL MOUNTED
(F) XXCD	STROBE, CEILING MOUNTED, 75 CD UNLESS OTHERWISE NOTED CD = CANDELA RATING
ES XXCD	COMBINATION <u>SPEAKER/STROBE</u> , CEILING MOUNTED, 75CD UNLESS OTHERWISE NOTED CD = CANDELA RATING
63	SPEAKER ONLY, CEILING MOUNTED
S	SPEAKER ONLY, WALL MOUNTED
F	STROBE, WALL MOUNTED, 75CD UNLESS OTHERWISE NOTED
Ρ	FIREMAN'S PHONE JACK
TS	SPRINKLER TAMPER SWITCH CONNECTION
FS	SPRINKLER WATERFLOW SWITCH CONNECTION
PS	PRESSURE SWITCH CONNECTION
$\blacksquare$	ELECTROMAGNETIC DOOR HOLD OPEN DEVICE
ACP	FIRE ALARM CONTROL PANEL
ATC	
FAA	FIRE ALARM ANNUNCIATOR PANEL - FLUSH MOUNTED VOICE EVACUATION PANEL
MNS	MASS NOTIFICATION SYSTEM PANEL
DACT	MASS NOTIFICATION SYSTEM PANEL

## ABBREVIATIONS

ICU IECC

A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT
ABV CLG	ABOVE CEILING
ADA	AMERICANS WITH DISABILITIES ACT
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
-	
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
AMP	AMPERE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASA	AMERICAN STANDARDS ASSOCIATION
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GUAGE
BC	BARE COPPER
BIL	BASIC IMPULSE LEVEL
BAS	BUILDING AUTOMATION SYSTEM
BMS	BUILDING MANAGEMENT SYSTEM
BRKR OR BKR	BREAKER
C	CONDUIT OR RACEWAY
CAB	CABINET
CKT	CIRCUIT
СВ	CIRCUIT BREAKER
CBM	CERTIFIED BALLAST MANUFACTURERS
-	
CATV	CABLE TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CLEC	CLOCK EQUIPMENT CABINET
CLG	CEILING
CO	CONDUIT OR RACEWAY ONLY
COAX	COAXIAL CABLE
COND	CONDUCTOR
CONN	CONNECTION
CPU	CENTRAL PROCESSING UNIT
CRT	CATHODE RAY TERMINAL (VIDEO DISPLAY TERMINAL)
CT	CURRENT TRANSFORMER
CU	COPPER
CW	COLD WATER
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE
DF	DEMAND FACTOR
DISC	DISCONNECT
DISC SW	DISCONNECT SWITCH
	DRAW OUT
DO	
DN	DOWN
DPST	DOUBLE POLE SINGLE THROW
EDH	ELECTRIC DUCT HEATER
EMT	ELECTRIC METALLIC TUBING
EO	
	ELECTRICALLY OPERATED
EOL	ELECTRICALLY OPERATED END OF LINE
EOL	END OF LINE
EOL EOR	END OF LINE ENGINEER OF RECORD
EOL EOR ETR	END OF LINE ENGINEER OF RECORD EXISTING TO REMAIN
EOL EOR	END OF LINE ENGINEER OF RECORD EXISTING TO REMAIN ELECTRIC WATER COOLER
EOL EOR ETR	END OF LINE ENGINEER OF RECORD EXISTING TO REMAIN
EOL EOR ETR EWC FA	END OF LINE ENGINEER OF RECORD EXISTING TO REMAIN ELECTRIC WATER COOLER FIRE ALARM
EOL EOR ETR EWC FA FAAP	END OF LINE ENGINEER OF RECORD EXISTING TO REMAIN ELECTRIC WATER COOLER FIRE ALARM FIRE ALARM ANNUNCIATOR PANEL
EOL EOR ETR EWC FA FAAP FATC	END OF LINE ENGINEER OF RECORD EXISTING TO REMAIN ELECTRIC WATER COOLER FIRE ALARM FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM TERMINAL CABINET
EOL EOR ETR EWC FA FAAP FATC FBC	END OF LINE ENGINEER OF RECORD EXISTING TO REMAIN ELECTRIC WATER COOLER FIRE ALARM FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM TERMINAL CABINET FLORIDA BUILDING CODE
EOL EOR ETR EWC FA FAAP FATC	END OF LINE ENGINEER OF RECORD EXISTING TO REMAIN ELECTRIC WATER COOLER FIRE ALARM FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM TERMINAL CABINET
EOL EOR ETR EWC FA FAAP FATC FBC FCU	END OF LINE ENGINEER OF RECORD EXISTING TO REMAIN ELECTRIC WATER COOLER FIRE ALARM FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM TERMINAL CABINET FLORIDA BUILDING CODE FAN COIL UNIT
EOL EOR ETR EWC FA FAAP FATC FBC FCU FLA	END OF LINE ENGINEER OF RECORD EXISTING TO REMAIN ELECTRIC WATER COOLER FIRE ALARM FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM TERMINAL CABINET FLORIDA BUILDING CODE FAN COIL UNIT FULL LOAD AMPERES
EOL EOR ETR EWC FA FAAP FATC FBC FCU FLA FM	END OF LINE ENGINEER OF RECORD EXISTING TO REMAIN ELECTRIC WATER COOLER FIRE ALARM FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM TERMINAL CABINET FLORIDA BUILDING CODE FAN COIL UNIT FULL LOAD AMPERES FACTORY MUTUAL
EOL EOR ETR EWC FA FAAP FATC FBC FCU FLA FM FPU	END OF LINE ENGINEER OF RECORD EXISTING TO REMAIN ELECTRIC WATER COOLER FIRE ALARM FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM TERMINAL CABINET FLORIDA BUILDING CODE FAN COIL UNIT FULL LOAD AMPERES FACTORY MUTUAL FAN POWERED UNIT
EOL EOR ETR EWC FA FAAP FATC FBC FCU FLA FM	END OF LINE ENGINEER OF RECORD EXISTING TO REMAIN ELECTRIC WATER COOLER FIRE ALARM FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM TERMINAL CABINET FLORIDA BUILDING CODE FAN COIL UNIT FULL LOAD AMPERES FACTORY MUTUAL
EOL EOR ETR EWC FA FAAP FATC FBC FCU FLA FM FPU FT	END OF LINE ENGINEER OF RECORD EXISTING TO REMAIN ELECTRIC WATER COOLER FIRE ALARM FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM TERMINAL CABINET FLORIDA BUILDING CODE FAN COIL UNIT FULL LOAD AMPERES FACTORY MUTUAL FAN POWERED UNIT FEET
EOL EOR ETR EWC FA FAAP FATC FBC FCU FLA FM FPU FT GF	END OF LINE ENGINEER OF RECORD EXISTING TO REMAIN ELECTRIC WATER COOLER FIRE ALARM FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM TERMINAL CABINET FLORIDA BUILDING CODE FAN COIL UNIT FULL LOAD AMPERES FACTORY MUTUAL FAN POWERED UNIT FEET GROUND FAULT
EOL EOR ETR EWC FA FAAP FATC FBC FCU FLA FM FPU FT GF GFA	END OF LINE ENGINEER OF RECORD EXISTING TO REMAIN ELECTRIC WATER COOLER FIRE ALARM FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM TERMINAL CABINET FLORIDA BUILDING CODE FAN COIL UNIT FULL LOAD AMPERES FACTORY MUTUAL FAN POWERED UNIT FEET GROUND FAULT GROUND FAULT
EOL EOR ETR EWC FA FAAP FATC FBC FCU FLA FM FPU FT GF GFA GFCI	END OF LINE ENGINEER OF RECORD EXISTING TO REMAIN ELECTRIC WATER COOLER FIRE ALARM FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM TERMINAL CABINET FLORIDA BUILDING CODE FAN COIL UNIT FULL LOAD AMPERES FACTORY MUTUAL FAN POWERED UNIT FEET GROUND FAULT GROUND FAULT GROUND FAULT CIRCUIT INTERRUPTER
EOL EOR ETR EWC FA FAAP FATC FBC FCU FLA FM FPU FT GF GFA	END OF LINE ENGINEER OF RECORD EXISTING TO REMAIN ELECTRIC WATER COOLER FIRE ALARM FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM TERMINAL CABINET FLORIDA BUILDING CODE FAN COIL UNIT FULL LOAD AMPERES FACTORY MUTUAL FAN POWERED UNIT FEET GROUND FAULT GROUND FAULT
EOL EOR ETR EWC FA FAAP FATC FBC FCU FLA FM FPU FT GF GFA GFCI GFR	END OF LINE ENGINEER OF RECORD EXISTING TO REMAIN ELECTRIC WATER COOLER FIRE ALARM FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM TERMINAL CABINET FLORIDA BUILDING CODE FAN COIL UNIT FULL LOAD AMPERES FACTORY MUTUAL FAN POWERED UNIT FEET GROUND FAULT GROUND FAULT GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT RELAY
EOL EOR ETR EWC FA FAAP FATC FBC FCU FLA FM FPU FT GF GFA GFCI GFR GND, G	END OF LINE ENGINEER OF RECORD EXISTING TO REMAIN ELECTRIC WATER COOLER FIRE ALARM FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM TERMINAL CABINET FLORIDA BUILDING CODE FAN COIL UNIT FULL LOAD AMPERES FACTORY MUTUAL FAN POWERED UNIT FEET GROUND FAULT GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT RELAY GROUND
EOL EOR ETR EWC FA FAAP FATC FBC FCU FLA FM FPU FT GF GFA GFA GFCI GFR GND, G HP	END OF LINE ENGINEER OF RECORD EXISTING TO REMAIN ELECTRIC WATER COOLER FIRE ALARM FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM TERMINAL CABINET FLORIDA BUILDING CODE FAN COIL UNIT FULL LOAD AMPERES FACTORY MUTUAL FAN POWERED UNIT FEET GROUND FAULT GROUND FAULT ALARM GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT RELAY GROUND HORSEPOWER
EOL EOR ETR EWC FA FAAP FATC FBC FCU FLA FM FPU FT GF GFA GFCI GFR GFCI GFR GND, G HP HOA	END OF LINE ENGINEER OF RECORD EXISTING TO REMAIN ELECTRIC WATER COOLER FIRE ALARM FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM TERMINAL CABINET FLORIDA BUILDING CODE FAN COIL UNIT FULL LOAD AMPERES FACTORY MUTUAL FAN POWERED UNIT FEET GROUND FAULT GROUND FAULT ALARM GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT RELAY GROUND HORSEPOWER HAND-OFF-AUTOMATIC
EOL EOR ETR EWC FA FAAP FATC FBC FCU FLA FM FPU FT GF GFA GFA GFCI GFR GND, G HP	END OF LINE ENGINEER OF RECORD EXISTING TO REMAIN ELECTRIC WATER COOLER FIRE ALARM FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM TERMINAL CABINET FLORIDA BUILDING CODE FAN COIL UNIT FULL LOAD AMPERES FACTORY MUTUAL FAN POWERED UNIT FEET GROUND FAULT GROUND FAULT ALARM GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT RELAY GROUND HORSEPOWER
EOL EOR ETR EWC FA FAAP FATC FBC FCU FLA FM FPU FT GF GFA GFCI GFR GFCI GFR GFCI GFR GND, G HP HOA HORIZ	END OF LINE ENGINEER OF RECORD EXISTING TO REMAIN ELECTRIC WATER COOLER FIRE ALARM FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM TERMINAL CABINET FLORIDA BUILDING CODE FAN COIL UNIT FULL LOAD AMPERES FACTORY MUTUAL FAN POWERED UNIT FEET GROUND FAULT GROUND FAULT ALARM GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT RELAY GROUND HORSEPOWER HAND-OFF-AUTOMATIC HORIZONTAL
EOL EOR ETR EWC FA FAAP FATC FBC FCU FLA FM FPU FT GF GFA GFCI GFR GFCI GFR GFCI GFR GFD, G HP HOA HORIZ IBC	END OF LINE ENGINEER OF RECORD EXISTING TO REMAIN ELECTRIC WATER COOLER FIRE ALARM FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM TERMINAL CABINET FLORIDA BUILDING CODE FAN COIL UNIT FULL LOAD AMPERES FACTORY MUTUAL FAN POWERED UNIT FEET GROUND FAULT GROUND FAULT ALARM GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT RELAY GROUND HORSEPOWER HAND-OFF-AUTOMATIC HORIZONTAL INTERNATIONAL BUILDING CODE
EOL EOR ETR EWC FA FAAP FATC FBC FCU FLA FM FPU FT GF GFA GFCI GFR GFCI GFR GFCI GFR GND, G HP HOA HORIZ	END OF LINE ENGINEER OF RECORD EXISTING TO REMAIN ELECTRIC WATER COOLER FIRE ALARM FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM TERMINAL CABINET FLORIDA BUILDING CODE FAN COIL UNIT FULL LOAD AMPERES FACTORY MUTUAL FAN POWERED UNIT FEET GROUND FAULT GROUND FAULT ALARM GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT RELAY GROUND HORSEPOWER HAND-OFF-AUTOMATIC HORIZONTAL

INTENSIVE CARE UNIT INTERNATIONAL ENERGY CONSERVATION CODE

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT.

## **ABBREVIATIONS (CONT.)**

IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
IES	ILLUMINATING ENGINEERING SOCIETY
IMC	INTERMEDIATE METAL CONDUIT
IN	INCHES
IPCEA	INSULATED POWER CABLE ENGINEERS ASSOCIATION
IT	
JB OR J-BOX	
KCMIL	ONE THOUSAND CIRCULAR MILS
KV	
KVA KW	KILOVOLT AMPERES KILOWATT
KWH	KILOWATT HOURS
LBS	POUNDS
LED	LIGHT EMITTING DIODE
LP	LIGHTNING PROTECTION
LT	LIGHT
LTG	LIGHTING
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND
LSIA	LONG TIME, SHORT TIME, INSTANTANEOUS, ALARM
LSI	LONG TIME, SHORT TIME, INSTANTANEOUS
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN SERVICE DISTRIBUTION PANEL
MIC	MICROPHONE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MSB	MAIN SERVICE SWITCHBOARD
MTD	MOUNTED
MTG	MOUNTING
MTR	
MTS	MANUAL TRANSFER SWITCH
MUX MVA	MULTIPLEX (TRANSPONDER) PANEL MEGA VOLT AMPS
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NF	NON-FUSED
NL	NON-LINEAR
NO	NORMALLY OPEN OR NUMBER
OL OSHA	OVERLOAD OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
P	POLE
PB	PULLBOX
PF	POWER FACTOR
PIV	POST INDICATOR VALVE
PNL	PANEL
PR	PAIR
PRI PT	
PVC	POTENTIAL TRANSFORMER POLYVINYLCHLORIDE
PWR	POWER
REC, RECEPT	
REF	REFRIGERATOR
RGS, GRC	RIGID GALVANIZED STEEL CONDUIT
RLA	RUNNING LOAD AMPERES
RMS	ROOT-MEAN-SQUARE
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
SCA	SHORT CIRCUIT AMPERES
SD	SMOKE DETECTOR
SEC S/N	SECONDARY SOLID NEUTRAL
SPD	SURGE PROTECTIVE DEVICE
SPKR	SPEAKER
SPST	SINGLE POLE SINGLE THROW
SS	STAINLESS STEEL
SST	SOLID STATE TRIP
STD	SHORT TIME TRIP
SW	SWITCH
SWBD SWGR	SWITCHBOARD SWITCHGEAR
TEL	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TTC	TELEPHONE TERMINAL CABINET
TVEC	TELEVISION EQUIPMENT CABINET
TYP	TYPICAL
UG	UNDERGROUND
UON	
UL	UNDERWRITERS LABORATORIES
UTIL V	UTILITY VOLT
VA	VOLTAMPERE
VAR	VOLT AMPERE REACTIVE
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE
WP	
XFMR XFR	TRANSFORMER TRANSFER

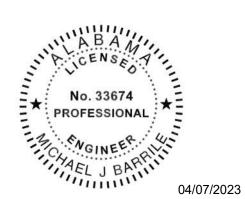
## ELECTRICAL DRAWING INDEX

SHEET	DESCRIPTION
EM000	ELECTRICAL LEGEND, ABBREVIATIONS, AND SHEET INDEX
EM001	ELECTRICAL GENERAL NOTES
EM100	MOBILITY HUB POWER FLOOR PLAN
EM200	MOBILITY HUB LIGHTING FLOOR PLAN
EM300	ELECTRICAL RISER DIAGRAM & SCHEDULES
EM400	FIRE ALARM RISER, DETAILS, AND NOTES
EM401	LIGHTING CONTROLS, NOTES, AND SCHEDULES
EM402	LIGHTING FIXTURE SCHEDULE
EM500	ELECTRICAL DETAILS
EM501	ELECTRICAL DETAILS



13099 S. Cleveland Avenue, Suite 500 Fort Myers, FL 33907 P 239.275.4240 www.tlc-engineers.com

COA 15 © Copyright 2019 TLC Engineering Solutions, Inc. TLC Project No.: 719179 THINK. LISTEN. CREATE.



This item has been electronically signed and sealed by Michael Barrile, PE on the date adjacent to this seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



SUSTAINABILITY CENTER Щ ACKAGEE3E ⊔abam₄ L L L 8 SHED F SHORES S TOURISM С MAWFIELD  $\bigcirc$ CO CO Ш FOR C JOB 19-028.000 PROJECT STATUS **CONFORMANCE SET** DATE MARCH 24, 2023 SHEETELECTRICAL LEGEND, ABBREVIATIONS, SHAND SHEET INDEX

EM000

## **ELECTRICAL GENERAL NOTES**

#### GENERAL:

- THE DRAWINGS AND APPLICABLE SPECIFICATIONS SHALL BE CONSIDERED SUPPLEMENTARY, ONE TO THE OTHER AND ARE CONSIDERED THE "CONTRACT DOCUMENTS". ALL WORKMANSHIP, METHODS AND/OR MATERIALS DESCRIBED OR IMPLIED BY ONE AND NOT DESCRIBED OR IMPLIED BY THE OTHER SHALL BE PROVIDED, FURNISHED OR PERFORMED AS IF IT HAD APPEARED IN BOTH SECTIONS. THE TERM "CONTRACT DOCUMENTS" DESCRIBED HEREIN IS NOT LIMITED SOLELY TO THE ELECTRICAL PORTION OF THE DRAWINGS AND SPECIFICATIONS, BUT ENCOMPASSES THE DRAWINGS AND SPECIFICATIONS OF ALL DIVISIONS AS A WHOLE.
- 2. PROVIDE AN OPERATING AND MAINTENANCE MANUAL TO OWNER PRIOR TO THE FINAL ACCEPTANCE. THE MANUAL SHALL INCLUDE, AS A MINIMUM, (1) SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. ALSO PROVIDE TWO OPERATIONS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS AND METHOD OF OPERATION FOR EQUIPMENT SHALL BE CLEARLY IDENTIFIED, AND THE NAME, PHONE NUMBER AND ADDRESS OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
- 3. INCLUDE ALL COSTS FOR EXCAVATION, SAW CUTTING, DIRECTIONAL BORING, CORE DRILLING, BACKFILLING, SURFACE RESTORATION, REPAIR OF FINISHES, ETC. THAT IS REQUIRED IN ORDER TO MEET THE PROJECT REQUIREMENTS.
- 4. INCLUDE IN BID ALL COSTS ASSOCIATED WITH TEMPORARY ELECTRICAL SERVICE AS REQUIRED FOR USE BY ALL TRADES DURING CONSTRUCTION. REMOVE TEMPORARY POWER AT THE COMPLETION OF THE PROJECT. OBTAIN AND PAY FOR ALL REQUIRED PERMITS FOR TEMPORARY POWER. ENGINEER OF RECORD SHALL BE PROVIDED WITH ADDITIONAL COMPENSATION FROM THE CONTRACTOR WHERE SIGNED & SEALED DRAWINGS ARE REQUESTED BY THE CONTRACTOR TO THE ENGINEER OF RECORD IF REQUIRED BY THE AHJ FOR THE TEMPORARY POWER.
- PROVIDE A COMPLETE UL LISTED LIGHTNING PROTECTION SYSTEM WITH A MASTER LABEL FOR THE ENTIRE FACILITY PER THE REQUIREMENTS OF NFPA 780, AND THE DIVISION 26 SPECIFICATIONS, UNLESS NOTED OTHERWISE. LIGHTNING PROTECTION SYSTEM SHALL INCLUDE BURIED COUNTERPOISE, UNLESS NOTED OTHERWISE.
- LOCATE, IDENTIFY, PROTECT AND DOCUMENT ALL UTILITY LINES LOCATED WITHIN THE PROJECT BOUNDARY. FOR LOCATING SITE UTILITIES, CONTACT SUNSHINE STATE ONE CALL OF FLORIDA, INC. AT LEAST 48 HOURS IN ADVANCE PRIOR TO DIGGING, AT 1-800-432-4770.
- INCLUDE IN BID THE TRANSPORT AND DISPOSAL OR RECYLING OF ALL WASTE MATERIALS GENERATED BY THIS PROJECT IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL RULES, REGULATIONS AND GUIDELINES APPLICABLE. COMPLY FULLY WITH FLORIDA STATUTES REGARDING MERCURY-CONTAINING DEVICES, AND WITH ALL DEP AND EPA APPLICABLE GUIDELINES AT THE TIME OF DISPOSAL. PROVIDE OWNER WITH WRITTEN CERTIFICATION OF ACCEPTED DISPOSAL. COORDINATION:
- 1. VERIFY AND COORDINATE LOCATIONS OF ANY MISCELLANEOUS EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS (I.E., COPIERS, FAX MACHINES, PRINTERS, KITCHEN APPLIANCES, LAUNDRY APPLIANCES, PROJECTION SCREENS, SHOP TOOLS, MACHINE, ELEVATORS, ETC.) WITH APPROVED SHOP DRAWINGS, OWNER-PROVIDED CUT SHEETS, MANUFACTURER'S INSTRUCTIONS, AND EQUIPMENT NAMEPLATE INFORMATION, PRIOR TO ROUGH IN, AND PROVIDE ALL NECESSARY ELECTRICAL REQUIRED.
- 2. VERIFY AND COORDINATE LOCATIONS AND EXACT ELECTRICAL REQUIREMENTS FOR ALL MECHANICAL, PLUMBING AND FIRE PROTECTION EQUIPMENT PRIOR TO SUBMITTAL OF SHOP DRAWINGS OF ELECTRICAL EQUIPMENT. PROVIDE ALL NECESSARY RACEWAYS, CONDUCTORS, BOXES, EQUIPMENT, ACCESSORIES, ASSOCIATED DISCONNECT SWITCHES, CIRCUIT BREAKERS, CONTROL TRANSFORMERS, FIRE ALARM SHUTDOWN, ETC. REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. COORDINATE WITH APPROPRIATE TRADE'S APPROVED SHOP DRAWINGS, MANUFACTURER'S INSTRUCTIONS, AND EQUIPMENT NAMEPLATE INFORMATION, PRIOR TO ROUGH IN, AND PROVIDE ALL NECESSARY ELECTRICAL REQUIRED, UNLESS OTHERWISE NOTED.
- 3. THIS PROJECT REQUIRES COORDINATION DRAWINGS BY THE CONTRACTOR. PARTICIPATE IN THE COORDINATION DRAWING PREPARATION PROCESS AND PROVIDE ALL NECESSARY INFORMATION REQUIRED TO COORDINATE ALL TRADE INFORMATION.
- 4. ALL WORK ON THE ELECTRICAL SYSTEM REQUIRED BY THE CONTRACT DOCUMENTS SHALL BE COORDINATED WITH THE WORK OF ALL OTHER DIVISIONS/TRADES PRIOR TO COMMENCEMENT OF WORK. AVOID INTERFERENCES WITH THE PROGRESS OF OTHER DIVISIONS/TRADES.
- 5. WHERE STRUCTURAL WALLS ARE OF TILT-UP CONSTRUCTION, PROVIDE COORDINATION FOR EXACT DIMENSIONS AND OPENINGS REQUIRED FOR ALL ELECTRICAL COMPONENTS INSTALLED WITHIN TILT-UP WALLS DURING THE SHOP DRAWING REVIEW PROCESS OF THE TILT-UP WALLS, PRIOR TO MANUFACTURE OF THE TILT-UP WALLS.
- LOCATIONS OF VFD'S, DISCONNECTS, MOTOR STARTERS, ETC. FOR HVAC EQUIPMENT ARE DIAGRAMMATIC ON THE PLAN DRAWINGS. EXACT LOCATIONS ARE TO BE COORDINATED WITH CONTRACTOR'S COORDINATION DRAWINGS PRIOR TO ROUGHING IN TO ENSURE PROPER NEC CLEARANCES AND APPROPRIATE MOUNTING SURFACE.
- 7. COORDINATE RECEPTACLE LOCATIONS WITH TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS SO THAT A 120V 20A 5-20R RECEPTACLE IS LOCATED ADJACENT TO EACH VOICE/DATA OUTLET AND TV OUTLET INDICATED ON PLANS. RECEPTACLE IS TO BE CONNECTED TO NEAREST 120V RECEPTACLE CIRCUIT, UNLESS OTHERWISE NOTED ON PLANS. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, CIVIL, LANDSCAPE,
- INTERIOR DESIGN, TECHNOLOGY, STRUCTURAL, AND KITCHEN EQUIPMENT DRAWINGS FOR RELATED INFORMATION AND ADDITIONAL INSTALLATION REQUIREMENTS TO BE PERFORMED AS PART OF THE WORK.
   8. WHERE A DISCREPANCY OR CONFLICT IS FOUND BETWEEN ONE DRAWING AND ANOTHER, OR
- WHERE A DISCREPARCE OR CONFLICTIST COULD BETWEEN ONE DRAWING AND ANOTHER, OR BETWEEN A DRAWING AND APPLICABLE SPECIFICATIONS, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY IN WRITTEN FORM. IN GENERAL, THE MOST STRINGENT REQUIREMENT SHALL GOVERN UNLESS THE DISCREPANCY CONFLICTS WITH APPLICABLE CODES OR OWNER'S DESIGN STANDARDS, WHEREIN THE CODE OR OWNER'S DESIGN STANDARDS SHALL GOVERN.
- 9. CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND/OR SITE AFFECTED BY THIS WORK PRIOR TO SUBMITTAL BID PRICE, SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT MAY AFFECT EXECUTION OF THE WORK. SUBMISSION OF A BID PRICE SHALL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT AND/OR MATERIALS REQUIRED DUE TO DIFFICULTIES ENCOUNTERED THAT COULD HAVE BEEN REASONABLY OBSERVED WILL NOT BE RECOGNIZED.
- 10 COORDINATE ALL PROJECT SCHEDULING AND PHASING REQUIREMENTS WITH ARCHITECT/ENGINEER AND OWNER PRIOR TO SUBMITTING BID PRICE. THIS PROJECT MAY REQUIRE PHASING SEQUENCES AND POTENTIAL PREMIUM TIME WORK AND ALL COSTS FOR SUCH SHALL BE INCLUDED IN THE BID PRICE. PROVIDE ADEQUATE WORK FORCE AND EQUIPMENT, AND INCLUDE PREMIUM TIME AS MAY BE REQUIRED IN ORDER TO ADHERE TO THE PROJECT SCHEDULE. ADDITIONALLY, ENSURE THAT LONG LEAD ITEMS DO NOT IMPACT THE PROJECT'S SCHEDULE OR PHASING.
- 11. ANY TEMPORARY INTERRUPTION ON POWER REQUIRED FOR THE SYSTEM TIE-IN OR SWITCHOVER FOR ANY PORTION OF THE ELECTRICAL SYSTEM SHALL BE PRE-APPROVED IN WRITING BY THE OWNER AND SCHEDULED IN ADVANCE.
- WRITING BY THE OWNER AND SCHEDULED IN ADVANCE.
  12. COORDINATE EXACT REQUIREMENTS WITH THE LOCAL UTILITY COMPANIES AND PROVIDERS (ELECTRIC, TELEPHONE, CABLE TV, ETC.) AND INCLUDE ALL COSTS FOR PROVIDING TEMPORARY AND PERMANENT SERVICES REQUIRED FOR THIS PROJECT IN THE BID PRICE. BID PRICE SHALL INCLUDE, BUT NOT BE LIMITED TO, EXCAVATION, RACEWAYS, BACKFILL, EQUIPMENT, EQUIPMENT PADS, BACKBOARDS, METERS, GROUNDING, UTILITY ENGINEERING AND IMPACT FEES.
- 13. CONDUCT WORK OPERATIONS AND DEBRIS REMOVAL IN A MANNER THAT ENSURES MINIMUM INTERFERENCE WITH NORMAL BUSINESS OPERATIONS, TRAFFIC, PARKING, ETC. ONGOING IN ADJACENT OCCUPIED SPACES OR FACILITIES. PROVIDE ALL THAT IS REQUIRED TO EFFECTIVELY PROTECT SURROUNDING OCCUPANTS, EQUIPMENT, FINISHES, FURNITURE, ETC. FROM DAMAGE OR EXCESSIVE NOISE THROUGHOUT THE DURATION OF THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR ANY LOSSES OR DAMAGE. ANY DAMAGE RESULTING FROM THE FAILURE TO ADHERE TO THIS REQUIREMENT. RESTORE DAMAGED ELEMENTS TO ORIGINAL CONDITION BY THE CONTRACTOR TO THE SATISFACTION OF THE ARCHITECT/ENGINEER AND OWNER, AT NO ADDITIONAL COSTS. REPORT OF ANY SUCH OCCURRENCE TO THE ARCHITECT/ENGINEER AND OWNER IMMEDIATELY AND AWAIT WRITTEN DIRECTION PRIOR TO PROCEEDING WITH REPAIRS.
- 14. COORDINATE THE LOCATION OF ALL LIGHT FIXTURES, DEVICES AND BOXES WITH WINDOWS, MIRRORS, MILLWORK, CABINETS, GLASS CURTAIN WALLS, AND GLASS WALLS PRIOR TO INSTALLATION OF CONDUITS OR BOXES. REVIEW ALL CONTRACT DRAWINGS TO ASCERTAIN ANY CONFLICTS PRIOR TO BIDDING. OBTAIN CLARIFICATION FROM A/E PRIOR TO BID. CONTRACTOR SHALL NOT BE ENTITLED TO ADDITIONAL COMPENSATION FOR WORK REQUIRED TO RELOCATE OUTLET BOXES OR RACEWAYS FOR COORDINATION WITH OTHER TRADE'S WORK. <u>ELECTRICAL EQUIPMENT</u>:
- 1. EQUIPMENT SHALL BE OF MATERIALS SUITABLE FOR AND RATED FOR THE ENVIRONMENT IN WHICH THEY ARE TO BE INSTALLED. ALL COMPONENTS OF THE ELECTRICAL SYSTEM LOCATED OUTDOORS OR INDOORS WHERE EXPOSED TO SIGNIFICANT MOISTURE SHALL BE WEATHERPROOF, NEMA 3R, AS A MINIMUM, WHETHER INDICATED ON THE CONTRACT DRAWINGS OR NOT.
- TERMINATION PROVISIONS FOR ALL ELECTRICAL EQUIPMENT (PANELBOARDS, SWITCHBOARD, TRANSFORMERS, DISCONNECT SWITCHES, MOTOR CONTROLLERS, AUTOMATIC TRANSFER SWITCHES, ENCLOSED CIRCUIT BREAKERS, WIREWAYS, ETC.) SHALL BE LISTED AND IDENTIFIED FOR USE WITH MINIMUM 75 DEG. F CONDUCTORS IN ACCORDANCE WITH NEC.
- WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT SHALL BE IN COMPLIANCE WITH NEC.
   THE EXCLUSIVELY DEDICATED SPACE EXTENDING FROM FLOOR TO 6' ABOVE EQUIPMENT OR STRUCTURAL CEILING, WHICHEVER DISTANCE IS LOWER, WITH A WIDTH AND DEPTH OF THE PANELBOARD OR SWITCHBOARD MUST BE CLEAR OF ALL PIPING, DUCTS, EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES IN ACCORDANCE WITH NEC.
   PROVIDE A REINFORCED CONCRETE PAD, SIZED 4" LARGER IN ALL DIRECTIONS THAN THE FOOTPRINT OF THE EQUIPMENT, AND 4" HIGH, FOR ALL FREESTANDING, FLOOR-MOUNTED ELECTRICAL EQUIPMENT. PROVIDE VIBRATION ISOLATORS AND/OR ANCHORS PER

MANUFACTURER'S INSTRUCTIONS.

- 6. PROVIDE HACR RATED CIRCUIT BREAKER FOR ALL HVAC EQUIPMENT.
- PROVIDE AFCI PROTECTION TO COMPLY WITH NEC IN ALL GUEST ROOMS AND G WITH PROVISIONS FOR COOKING, IN ALL DWELLING UNITS, APARTMENTS AND CO ALL PANELBOARDS OR DISCONNECT SWITCHES LOCATED IN KITCHEN AREAS SH STAINLESS STEEL (COVER AND DOOR WHERE PANEL IS FLUSH MOUNTED, PANEL DOOR WHERE PANEL IS FLUSH MOUNTED, PANEL
- DOOR WHERE SURFACE MOUNTED).
   PROVIDE SURGE PROTECTION DEVICE FOR ALL MAIN SERVICE EQUIPMENT, PAN SERVING SENSITIVE ELECTRONIC EQUIPMENT (DATA RACKS) OR COMPUTERS, L SERVING EXTERIOR LIGHTING, POWER CIRCUITS OR LOW VOLTAGE (FIRE ALARM TELECOMMUNICATIONS) EXITING THE BUILDING. PROVIDE MINIMUM 30A/3P BRE# PANELBOARDS AND 60A/3P DISTRIBUTION PANEL OR SWITCHBOARD, UNLESS OT
- OR PER THE SPD MANUFACTURER'S RECOMMENDATIONS FOR SURGE PROTECT 10. CONTRACTOR IS TO SUBMIT FOR APPROVAL TO THE ENGINEER OF RECORD FIN SETTINGS REQUIRED FOR MAIN CIRCUIT BREAKER AND ALL DOWNSTREAM ADJL OVERCURRENT PROTECTIVE DEVICES, BASED ON SELECTED EQUIPMENT MANU

### IDENTIFICATION:

- PROVIDE TYPED PANEL DIRECTORIES FOR ALL NEW PANELBOARDS, AND EXISTI AFFECTED BY THIS PROJECT. DIRECTORIES SHALL REFLECT PROJECT AS- BUILT ALL BRANCH CIRCUITS. DIRECTORIES SHALL INCLUDE WHERE EACH PANEL IS FE ADDITIONALLY, EACH BRANCH CIRCUIT LOAD DESCRIPTION SHALL INCLUDE THE FOR EACH LOAD SERVICE (I.E., RECEPTACLES-RMS 501,503). ROOM NUMBERS SH ACTUAL ROOM SIGNAGE INSTALLED IN FIELD. COORDINATE EXACT ROOM NUMB OWNER PRIOR TO COMPLETION OF PANEL DIRECTORIES.
- 2. PROVIDE ENGRAVED PLASTIC LAMINATE NAME TAGS ON EACH SWITCHBOARD, S DISTRIBUTION PANEL, PANELBOARD, MOTOR CONTROL CENTER, SAFETY SWITC CIRCUIT BREAKER, CABINET, STEP-DOWN TRANSFORMER, TRANSFER SWITCH, E
- OTHER MAJOR COMPONENT OF THE ELECTRICAL SYSTEM. PROVIDE ENGRAVED PLASTIC LAMINATE NAME TAGS FOR EACH DISTRIBUTION E BRANCH CIRCUIT BREAKER IN SWITCHGEAR, SWITCHBOARDS, MOTOR CONTROL OTHER DISTRIBUTION EQUIPMENT. NAME TAG SHALL INCLUDE LOAD DESCRIPTION
- ARC FLASH DANGER/WARNING LABELS SHALL BE APPLIED TO SWITCHBOARD, PA
- EQUIPMENT CONTROLLERS PER NEC.
   PROVIDE LABELS ON THE INSIDE OF EACH DEVICE COVERPLATE, IDENTIFYING T CIRCUIT NUMBER(S) DEVICE IS CONNECTED TO.
- PROVIDE NEATLY, HANDWRITTEN IDENTIFICATION ON THE EXTERIOR COVER OF PULLBOXES AND WIREWAYS, IDENTIFYING THE PANEL(S)/ CIRCUIT NUMBER(S) C
- . PROVIDE A PERMANENT SIGN ON THE MAIN ELECTRICAL ROOM DOOR TO THE BI THAT THE MAIN SERVICE DISCONNECTING MEANS IS LOCATED INSIDE.
- PROVIDE A PERMANENT LABEL ON ALL PANELBOARDS, SWITCHBOARDS, SWITCH CONTROLS CENTERS AND DISTRIBUTION PANELS STATING "DO NOT WORK ON E ENERGIZED. LOCK-OUT TAG-OUT REQUIRED".
- PROVIDE REQUIRED IDENTIFICATION PER ANSI STANDARDS, NEC REQUIREMENT PUBLISHED DESIGN STANDARDS WHERE APPLICABLE.
- ELECTRICAL DEVICES, OUTLET BOXES, JUNCTION BOXES:
- LIGHT SWITCHES SHALL BE MOUNTED 48 INCHES ABOVE FINISHED FLOOR TO CE OF DEVICE, UNLESS OTHERWISE NOTED. RECEPTACLES, VOICE/DATA OUTLETS, WALL FURNITURE FEEDS SHALL BE MOUN
- ABOVE COUNTER RECEPTACLES SHALL BE MOUNT OF DEVICE, UNLESS OTHERW ABOVE COUNTER RECEPTACLES SHALL BE MOUNTED 6" ABOVE BACK SPLASH TO OF DEVICE, UNLESS OTHERWISE NOTED.
- WHEN ELECTRICAL BOXES ARE LOCATED IN VERTICAL FIRE-RESISTIVE ASSEMBL FIRE/SMOKE AND SMOKE PARTITIONS), THEY SHALL BE INSTALLED WITHOUT AFI CLASSIFICATION. ALL OF THE FOLLOWING CONDITIONS SHALL BE MET:
- A. ALL ELECTRICAL BOXES SHALL BE METALLIC.
- B. BOX OPENING SHALL OCCUR ONLY ON ONE SIDE OF FRAMING SPA
- C. BOX OPENING SHALL NOT EXCEED 16 SQUARE INCHES.
- D. ALL CLEARANCES BETWEEN OUTLET BOX AND GYPSUM BOARD SH FILLED WITH JOINT COMPOUND (OR OTHER APPROVED MATER
- E. PROVIDE A WALL AROUND OUTLETS LARGER THAN 16 SQUARE INC OF THE WALL RATING SHALL BE MAINTAINED.
- F. THE TOTAL AGGREGATE SURFACE AREA OF THE BOXES SHALL NC SQUARE INCHES PER 100 SQUARE FEET.
- G. OUTLET BOXES LOCATED ON OPPOSITE SIDES OF FIRE RESISTIVE BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCH
- H. OUTLET BOXES SHALL BE SECURELY FASTENED TO WALL FRAMIN
- . THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT NOT
- BETWEEN THE EDGES OF THE OUTLET BOX AND THE EDGES (
- IT IS THE INTENT THAT ALL DEVICE OUTLET BOXES (POWER AND SYSTEMS) BE F WALLS, CEILINGS OR FLOORS, AND JUNCTION BOXES FLUSH MOUNTED IN WALLS FLOORS, OR CONCEALED ABOVE ACCESSIBLE CEILINGS, AND NOT SURFACE MO SPECIFICALLY NOTED ON THE CONTRACT DRAWINGS, OR UNLESS A/E GRANTS V
   ALL COMPONENTS OF THE ELECTRICAL SYSTEM (INCLUDE RACEWAYS, ELECTRI
- OUTLET BOXES, JUNCTION BOXES, ETC.) LOCATED IN A HAZARDOUS (CLASSIFIE SHALL BE APPROVED FOR USE IN SAID LOCATION, AS DEFINED BY THE NEC, WHI ON THE CONTRACT DOCUMENTS OR NOT.
- . ALL DEVICES SHALL BE MOUNTED VERTICALLY, UNLESS OTHERWISE NOTED.
- ALL RECEPTACLES SHALL BE MOUNTED SUCH THAT THE GROUND PIN IS MOUNT
   WHERE DEVICES ARE SHOWN IN WALLS BACK-TO-BACK ON OPPOSITE SIDES, INS THEY ARE SEPARATED BY AT LEAST 12".
- RECEPTACLES OR JUNCTION BOXES FOR ELECTRIC WATER COOLERS SHALL BE DIRECTLY BEHIND ELECTRIC WATER COOLER, CONCEALED FROM DIRECT VIEW. SHALL BE GFCI TYPE. JUNCTION BOXES FOR HARD-WIRED CONNECTION TO EWC
- CIRCUITED TO GFCI PROTECTED CIRCUIT BREAKER IN PANELBOARD.
   ALL EXTERIOR RECEPTACLES OR RECEPTACLES LOCATED IN AREAS SUBJECT TO (PARKING GARAGE, WASHDOWN AREAS IN KITCHEN, ETC) SHALL BE GFCI TYPE. A RECEPTACLES SHALL BE PROVIDED WITH CAST METAL, IN-USE COVER UNLESS N
- 1. ALL RECEPTACLES LOCATED IN KITCHENS, BATHROOMS OR WITHIN 6' OF THE IN SINK, IN MECHANICAL ROOMS, JANITOR CLOSETS, ELEVATOR SHAFTS, ELEVATO AND ELEVATOR EQUIPMENT ROOMS SHALL BE GFCI TYPE OR GFCI PROTECTED.
- ALL RECEPTACLES LOCATED IN DAY CARES, PEDIATRIC CLINICS OR AREAS, AND REQUIRED BY NEC AND STATE OF FLORIDA REQUIREMENTS FOR EDUCATIONAL TAMPERPROOF. <u>RACEWAYS</u>:
- FLEXIBLE METAL CONDUIT AND LIQUIDTIGHT METAL CONDUIT (FMC & LFMC) SHA IN LENGTHS THAT EXCEED 6'-0" UNLESS SPECIFICALLY NOTED OTHERWISE, OR U GRANTS WRITTEN PERMISSION.
- ALL FEEDER AND BRANCH CIRCUIT CONDUCTORS, INCLUDING LOW VOLTAGE SY INSTALLED IN A COMPLETE RACEWAY SYSTEM (CONDUIT) UNLESS SPECIFIED NO THE USE OF ELECTRICAL NON-METALLIC TUBING (ENT) AND LIQUIDTIGHT FLEXIB
- CONDUIT (LFNC) ARE PROHIBITED UNLESS SPECIFICALLY NOTED OTHERWISE, O OWNER GRANTS WRITTEN PERMISSION. CONNECTIONS TO TRANSFORMERS, AHU'S, AND PUMPS SHALL BE WITH LIGUIDT
- METAL CONDUIT. NO PVC CONDUIT MAY BE USED INSIDE OF BUILDING UNLESS ROUTED UNDERGE OTHERWISE NOTED.
- ALL CONDUIT TERMINATIONS AT TERMINAL BOARDS ARE TO HAVE GROUNDING CONDUIT ENDS.
- ALL CONDUITS ARE TO BE CONCEALED UNLESS IMPOSSIBLE DUE TO EXISTING C EXPOSED CEILINGS, BUILDING EXTERIOR WALL RUNS). CONCEAL ALL CONDUITS IN WALLS AND MILLWORK. WHERE EXISTING CONDITIONS DICTATE THAT CONDUI CONCEALED, NOTIFY ARCHITECT/ENGINEER PRIOR TO INSTALLING CONDUIT FOR ROUTING.
- SEAL ALL PENETRATIONS AND OPENINGS MADE DURING EXECUTION OF WORK I WALLS. WALLS SHALL BE SEALED WITH UL-APPROVED PRODUCT WITH THE SAME RATING OF WALL PENETRATED.

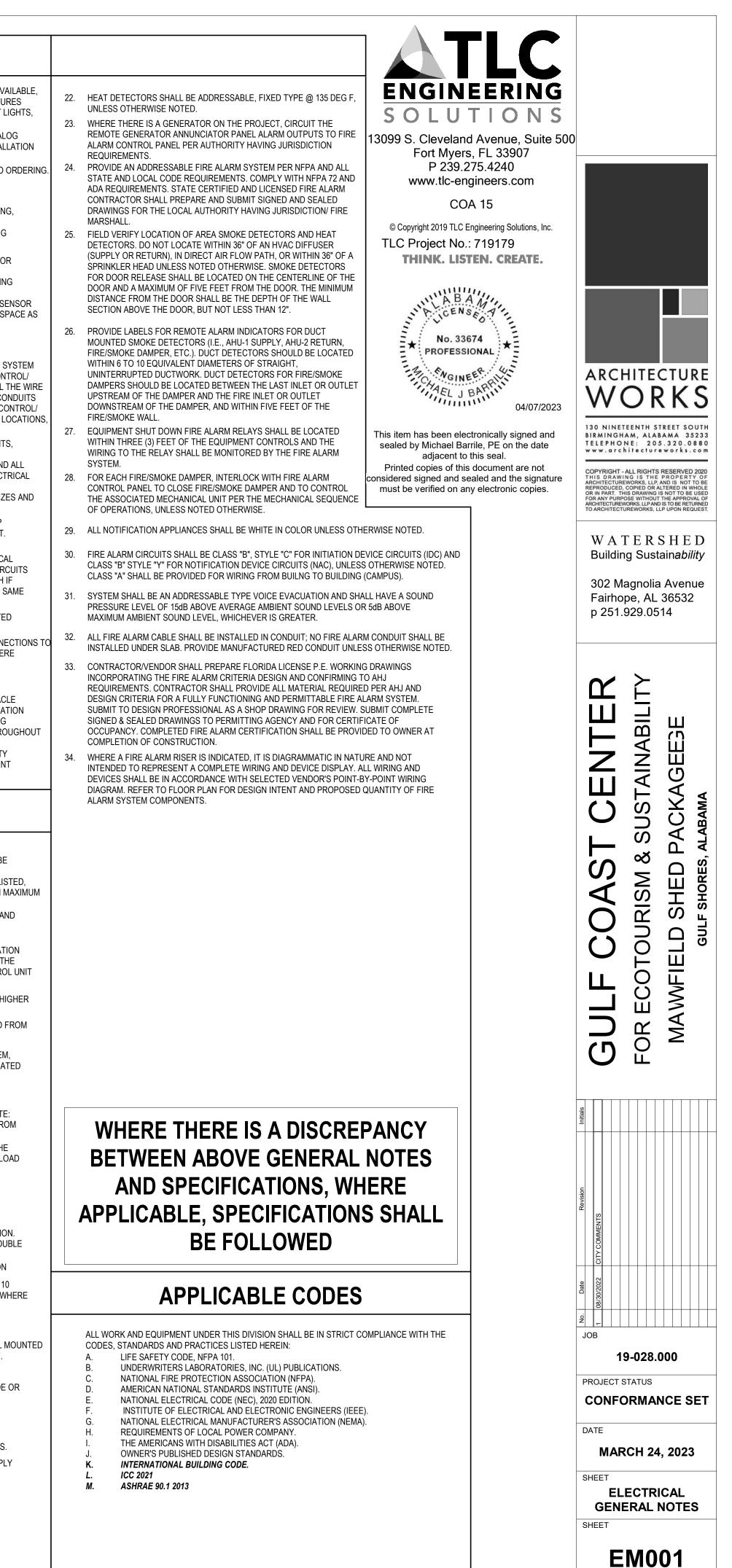
Guest Suites Ondominiums. Hall Be L Box, Cover &	10.	REQUIRED. COORDIANTE LOCATIONS AND SIZES WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS, FIELD CONDITIONS AND WORK OF ALL OTHER DIVISIONS/TRADES. ALL OPENINGS ARE TO BE SEALED WATERTIGHT. ALL RACEWAYS THAT TURN UP INTO THE SLAB OR ELECTRICAL EQUIPMENT FROM UNDERGROUND SHALL BE RIGID GALVANIZED STEEL (RGS) WITH BITUMASTIC COATING FOR AT LEAST THE FINAL 18"	14.	SHOWN WITH S OR UNLESS OT REFER TO LIGH NUMBERS AND
IELBOARDS IGHTING PANELS	11.	IN LENGTH. THE USE OF NON-METALLIC CONDUIT ABOVE GRADE IS PROHIBITED. PANEL SCHEDULES AND FLOOR PLANS MAY INDICATE DEDICATED HOMERUNS FOR EACH BRANCH CIRCUIT. BRANCH CIRCUITS MAY BE GROUPED IN A COMMON HOMERUN WHERE THE HOMERUN	15. 16.	THEREOF. COORDINATE L EACH LIGHTING
M, AKER IN THERWISE NOTED, TION DEVICE.	12.	DOES NOT EXCEED 3 PHASE CONDUCTORS, 3 NEUTRAL CONDUCTORS, AND 1 EQUIPMENT GROUND. THE HOMERUN RACEWAY SIZE AND CONDUCTOR SIZE SHALL BE INCREASED AS NECESSARY TO COMPLY WITH THE NEC FOR 40% MAXIMUM FILL AND DERATING REQUIREMENTS. IT IS THE INTENT THAT ALL RACEWAYS BE CONCEALED IN WALLS, ABOVE CEILINGS, IN SLAB, OR	17.	PROVIDE AS PA INDEPENDENT INCLUDING ALL PROGRAMMAB
AL COORDINATED JSTABLE FACTURER.	12.	BELOW SLAB UNLESS SPECIFICALLY NOTED OTHERWISE, OR UNLESS A/E GRANTS WRITTEN PERMISSION. WHERE RACEWAYS ARE INSTALLED IN SLABS, THE MINIMUM SPACING, MAXIMUM RACEWAY SIZE, AND ANY OTHER STRUCTURAL LIMITATIONS SHALL BE COORDINATED WITH THE STRUCTURAL DRAWINGS AND THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.		A. CONFI OCCUPANCY SE B. CONFI
	13.	PROVIDE SEAL OFF FITTINGS, APPROVED FOR SUCH USE, WHERE RACEWAYS PENETRATE BETWEEN A DRY, CONDITIONED ENVIRONMENT AND THE EXTERIOR OR WET ENVIRONMENTS SUCH AS WALK-IN COOLERS OR FREEZERS, KITCHEN WASH-DOWN AREAS, ETC.		CONTROLS ARE C. CONFI
T CONDITIONS FOR ED FROM. E ROOM NUMBER(S) HALL BE BASED ON	14. 15.	PROVIDE POLYOLEFIN JET-LINE #232 (NYLON PULL STRING) IN EACH EMPTY CONDUIT WITH ENGRAVED METAL TAG INDICATING CONDUIT DESIGNATION. MINIMUM RACEWAY SIZE SHALL BE 3/4" UNLESS NOTED OTHERWISE.		SPECIFIED.
ERS WITH A/E AND SWITCHGEAR,	16.	SET SCREW FITTINGS SHALL BE USED FOR EMT CONDUIT. CONDUCTORS:	1.	THE INFRASTR (CONDUITS, EL CCTV OR SECU
CH, ENCLOSED ETC., AND ANY BREAKER OR	1.	ALL WIRE SHALL BE SIZED AS SHOWN ON THE DRAWINGS. IF NO SIZE IS SHOWN, THEN WIRE SHALL BE #12 AWG, EXCEPT THAT BRANCH HOMERUNS OVER 100' IN LENGTH SHALL BE MINIMUM #10 AWG FOR 120/208 VOLT CIRCUITS, AND HOMERUNS OVER 200' IN LENGTH SHALL BE MINIMUM #10 AWG FOR		AND CABLE FO AND ELECTRIC CCTV SYSTEM SIZES AND QUA
L CENTERS AND ON AND ROOM	2.	277/480 VOLT CIRCUITS. REFER TO BRANCH CIRCUIT VOLTAGE DROP TABLES BELOW. BRANCH CIRCUIT WIRING SHALL BE SIZED TO LIMIT THE VOLTAGE DROP TO 3% OF NOMINAL VOLTAGE OR LESS. BRANCH CIRCUITS SHALL BE INCREASED IN SIZE AS REQUIRED TO COMPENSATE FOR VOLTAGE DROP FROM LENGTH OF CIRCUIT DUE TO FIELD ROUTING. FINAL INSTALLATION SHALL NOT EXCEED	2.	THE INFRASTR ELECTRICAL BO CONTRACTOR
ANELBOARDS, AND 'HE PANEL(S)/		A MAXIMUM OF 3% VOLTAGE DROP FOR BRANCH CIRCUITS. REFER TO VOLTAGE DROP TABLE BELOW FOR CONDUCTOR SIZES FOR BRANCH CIRCUITS: 120V (BASED ON 1500W LOAD) MIN. CONDUCTOR SIZE		REQUIRED EQU BOXES SHALL I CONTRACTOR. QUANTITY, COI
ALL JUNCTION BOXES		CIRCUIT LENGTH     INCREASE FOR VOLTAGE DROP       0 FT - 70 FT     #12 AWG	3.	PROVIDE 120V POWER AND H
ONTAINED WITHIN. UILDING STATING		71 FT - 115 FT #10 AWG 116 FT - 180 FT #8 AWG 181 FEET AND LONGER: SUBMIT WIRE SIZE TO ENGINEER OF RECORD FOR WRITTEN APPROVAL.	4.	RECEPTACLE IS PROVIDE 120V PLANS, WHETH
HGEAR, MOTOR EQUIPMENT WHILE		277V (BASED ON 4155W LOAD) CIRCUIT LENGTH  MIN. CONDUCTOR SIZE  INCREASE FOR VOLTAGE DROP		ARE TO BE PRO AVAILABLE). MO CIRCUIT (I.E., D
rs, and owner's		0 FT - 140 FT #12 AWG 141 FT - 220 FT #10 AWG 221 FT - 350 FT #8 AWG	5. 6.	PROVIDE PHON CIRCUIT ADJAC PROVIDE 120V
ENTER LINE	3. 4.	ALL WIRE SIZES ARE BASED ON AMPACITIES FOR 75 DEG. F TEMPERATURE RATING LISTED IN NEC. ALL CONDUCTORS IN CABINETS MUST BE CAREFULLY FORMED AND HARNESSED SO THAT EACH		UNIT UV LIGHT PROVIDED. CC
NTED 18	5.	CONDUCTOR DROPS OFF DIRECTLY OPPOSITE TO TERMINAL. ALL CONDUCTORS SHALL BE COPPER, THHN/THWN , AND SOLID FOR #10 AWG AND	7.	ACCESS CONT
ISE NOTED. O CENTERLINE	6.	SMALLER, AND STRANDED FOR #8 AWG AND LARGER. THE USE OF ALUMINUM CONDUCTORS, RACEWAYS, BOXES, BUSSING, WINDINGS, ETC. ARE PROHIBITED. ALL MATERIALS SHALL BE COPPER, UNLESS SPECIFICALLY NOTED OTHERWISE OR		CIRCUITS UTILI ALWAYS ENER CONTROLS / EF
LIES, (CLASSIFIED AS FECTING THE FIRE		UNLESS A/E OR OWNER GRANTS WRITTEN PERMISSION. <u>GROUNDING</u> :	8.	THE ELECTRICA ENSURE ALL SI MECHANISM TH OVERHEATING
	1. 2.	FIRE PROTECTION PIPING SHALL NOT BE USED FOR GROUNDING. ALL FEEDERS AND BRANCH CIRCUITS SHALL INCLUDE AN EQUIPMENT GROUND CONDUCTOR.		
		METAL RACEWAYS SHALL NOT BE USED AS FOUIPMENT GROUND		
ACE.	3.	METAL RACEWAYS SHALL NOT BE USED AS EQUIPMENT GROUND. WHERE A PHASE CONDUCTOR IS INCREASED IN SIZE DUE TO VOLTAGE DROP, THE EQUIPMENT GROUND CONDUCTOR SHALL BE INCREASED IN SIZE PROPORTIONATELY.		FIF
ACE. HALL BE COMPLETELY RIAL).	3. 4.	WHERE A PHASE CONDUCTOR IS INCREASED IN SIZE DUE TO VOLTAGE DROP, THE EQUIPMENT	1.	ALL FIRE ALARI COMPATIBLE W
ALL BE COMPLETELY	4.	WHERE A PHASE CONDUCTOR IS INCREASED IN SIZE DUE TO VOLTAGE DROP, THE EQUIPMENT GROUND CONDUCTOR SHALL BE INCREASED IN SIZE PROPORTIONATELY. PROVIDE A GROUND BUS BAR IN EACH ELECTRICAL ROOM AND TELECOMMUNICATIONS / IDF/ MDF ROOM FOR ALL NEW CONSTRUCTION AND NEW ROOMS IN EXISTING CONSTRUCTION, AND IN EXISTING CONSTRUCTION WHERE THERE IS NONE INSTALLED WITHIN AN EXISTING ROOM. LIGHTING:	1. 2.	ALL FIRE ALARI COMPATIBLE W ALL WIRING AN MINIMUM 300V 19 STRANDS.
IALL BE COMPLETELY RIAL).		<ul> <li>WHERE A PHASE CONDUCTOR IS INCREASED IN SIZE DUE TO VOLTAGE DROP, THE EQUIPMENT GROUND CONDUCTOR SHALL BE INCREASED IN SIZE PROPORTIONATELY.</li> <li>PROVIDE A GROUND BUS BAR IN EACH ELECTRICAL ROOM AND TELECOMMUNICATIONS / IDF/ MDF ROOM FOR ALL NEW CONSTRUCTION AND NEW ROOMS IN EXISTING CONSTRUCTION, AND IN EXISTING CONSTRUCTION WHERE THERE IS NONE INSTALLED WITHIN AN EXISTING ROOM.</li> <li>LIGHT FIXTURES SUPPORTED BY CEILING GRID SHALL BE SUPPORTED AS FOLLOWS: LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS SHALL HAVE 12-GAUGE HANGER WIRE CONNECTED FROM THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING 10 POUNDS</li> </ul>		ALL FIRE ALARI COMPATIBLE W ALL WIRING AN MINIMUM 300V
HALL BE COMPLETELY RIAL). CHES. THE INTEGRITY	4.	WHERE A PHASE CONDUCTOR IS INCREASED IN SIZE DUE TO VOLTAGE DROP, THE EQUIPMENT GROUND CONDUCTOR SHALL BE INCREASED IN SIZE PROPORTIONATELY. PROVIDE A GROUND BUS BAR IN EACH ELECTRICAL ROOM AND TELECOMMUNICATIONS / IDF/ MDF ROOM FOR ALL NEW CONSTRUCTION AND NEW ROOMS IN EXISTING CONSTRUCTION, AND IN EXISTING CONSTRUCTION WHERE THERE IS NONE INSTALLED WITHIN AN EXISTING ROOM. LIGHTING: LIGHT FIXTURES SUPPORTED BY CEILING GRID SHALL BE SUPPORTED AS FOLLOWS: LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS SHALL HAVE 12-GAUGE HANGER WIRE CONNECTED	2.	ALL FIRE ALARI COMPATIBLE W ALL WIRING AN MINIMUM 300V 19 STRANDS. LOW VOLTAGE NFPA 72, AND A CONDUCTORS SURVIVABILITY APPLIANCE CIF
HALL BE COMPLETELY RIAL). CHES. THE INTEGRITY DT EXCEED 100 E ASSEMBLIES SHALL ES. G MEMBERS.	4. 1.	<ul> <li>WHERE A PHASE CONDUCTOR IS INCREASED IN SIZE DUE TO VOLTAGE DROP, THE EQUIPMENT GROUND CONDUCTOR SHALL BE INCREASED IN SIZE PROPORTIONATELY.</li> <li>PROVIDE A GROUND BUS BAR IN EACH ELECTRICAL ROOM AND TELECOMMUNICATIONS / IDF/ MDF ROOM FOR ALL NEW CONSTRUCTION AND NEW ROOMS IN EXISTING CONSTRUCTION, AND IN EXISTING CONSTRUCTION WHERE THERE IS NONE INSTALLED WITHIN AN EXISTING ROOM.</li> <li>LIGHTING:</li> <li>LIGHT FIXTURES SUPPORTED BY CEILING GRID SHALL BE SUPPORTED AS FOLLOWS: LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS SHALL HAVE 12-GAUGE HANGER WIRE CONNECTED FROM THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING 10 POUNDS OR MORE SHALL HAVE (2) 12-GAUGE HANGER WIRES ATTACHED AT OPPOSITE CORNERS OF THE LIGHT FIXTURE TO THE STRUCTURE ABOVE.</li> <li>COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES IN LAY-IN AND GYPBOARD CEILINGS WITH ARCHITECTURAL REFLECTED CEILING PLANS, AND WALL MOUNTED EXTERIOR AND INTERIOR LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION. WHERE THE QUANTITY OF</li> </ul>	2. 3. 4.	ALL FIRE ALARI COMPATIBLE W ALL WIRING AN MINIMUM 300V 19 STRANDS. LOW VOLTAGE NFPA 72, AND A CONDUCTORS SURVIVABILITY APPLIANCE CIF NOTIFICATION UNTIL THE POIN
HALL BE COMPLETELY RIAL). CHES. THE INTEGRITY DT EXCEED 100 E ASSEMBLIES SHALL ES. G MEMBERS. TO EXCEED 1/8 INCH OF THE OPENING. FLUSH MOUNTED IN S, CEILINGS, OR	4. 1.	WHERE A PHASE CONDUCTOR IS INCREASED IN SIZE DUE TO VOLTAGE DROP, THE EQUIPMENT GROUND CONDUCTOR SHALL BE INCREASED IN SIZE PROPORTIONATELY. PROVIDE A GROUND BUS BAR IN EACH ELECTRICAL ROOM AND TELECOMMUNICATIONS / IDF/ MDF ROOM FOR ALL NEW CONSTRUCTION AND NEW ROOMS IN EXISTING CONSTRUCTION, AND IN EXISTING CONSTRUCTION WHERE THERE IS NONE INSTALLED WITHIN AN EXISTING ROOM. LIGHTING: LIGHT FIXTURES SUPPORTED BY CEILING GRID SHALL BE SUPPORTED AS FOLLOWS: LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS SHALL HAVE 12-GAUGE HANGER WIRE CONNECTED FROM THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING 10 POUNDS OR MORE SHALL HAVE (2) 12-GAUGE HANGER WIRES ATTACHED AT OPPOSITE CORNERS OF THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES IN LAY-IN AND GYPBOARD CEILINGS WITH ARCHITECTURAL REFLECTED CEILING PLANS, AND WALL MOUNTED EXTERIOR AND INTERIOR LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION. WHERE THE QUANTITY OF LIGHTS DIFFERS BETWEEN THE ARCHITECTURAL RCP AND THE ELECTRICAL LIGHTING PLANS, PROVIDE THE HIGHEST QUANTITY OF FIXTURES IN THE BID PRICE. THE DISCREPANCY IN QUANTITY SHALL BE BROUGHT TO THE ATTENTION OF THE A/E. THE HIGHEST QUANTITY SHALL BE CIRCUITED TO THE LOCAL ROOM OR AREA LIGHTING CIRCUITS AND LIGHTING CONTROL DEVICES, UNLESS OTHERWISE DIRECTED IN WRITING BY THE ARCHITECT/ENGINEER.	2. 3.	ALL FIRE ALARI COMPATIBLE W ALL WIRING AN MINIMUM 300V 19 STRANDS. LOW VOLTAGE NFPA 72, AND A CONDUCTORS SURVIVABILITY APPLIANCE CIR NOTIFICATION
HALL BE COMPLETELY RIAL). CHES. THE INTEGRITY OT EXCEED 100 E ASSEMBLIES SHALL ES. G MEMBERS. TO EXCEED 1/8 INCH OF THE OPENING. FLUSH MOUNTED IN S, CEILINGS, OR DUNTED, UNLESS WRITTEN PERMISSION. CAL EQUIPMENT,	4. 1.	<ul> <li>WHERE A PHASE CONDUCTOR IS INCREASED IN SIZE DUE TO VOLTAGE DROP, THE EQUIPMENT GROUND CONDUCTOR SHALL BE INCREASED IN SIZE PROPORTIONATELY.</li> <li>PROVIDE A GROUND BUS BAR IN EACH ELECTRICAL ROOM AND TELECOMMUNICATIONS / IDF/ MDF ROOM FOR ALL NEW CONSTRUCTION AND NEW ROOMS IN EXISTING CONSTRUCTION, AND IN EXISTING CONSTRUCTION WHERE THERE IS NONE INSTALLED WITHIN AN EXISTING ROOM.</li> <li>LIGHT FIXTURES SUPPORTED BY CEILING GRID SHALL BE SUPPORTED AS FOLLOWS: LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS SHALL HAVE 12-GAUGE HANGER WIRE CONNECTED FROM THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING 10 POUNDS OR MORE SHALL HAVE (2) 12-GAUGE HANGER WIRES ATTACHED AT OPPOSITE CORNERS OF THE LIGHT FIXTURE TO THE STRUCTURE ABOVE.</li> <li>COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES IN LAY-IN AND GYPBOARD CEILINGS WITH ARCHITECTURAL REFLECTED CEILING PLANS, AND WALL MOUNTED EXTERIOR AND INTERIOR LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION. WHERE THE QUANTITY OF LIGHTS DIFFERS BETWEEN THE ARCHITECTURAL RCP AND THE ELECTRICAL LIGHTING PLANS, PROVIDE THE HIGHEST QUANTITY OF FIXTURES IN THE BID PRICE. THE DISCREPANCY IN QUANTITY SHALL BE BROUGHT TO THE ATTENTION OF THE A/E. THE HIGHEST QUANTITY SHALL BE CIRCUITED TO THE LOCAL ROOM OR AREA LIGHTING CIRCUITS AND LIGHTING CONTROL DEVICES, UNLESS OTHERWISE DIRECTED IN WRITING BY THE ARCHITECT/ENGINEER.</li> <li>VERIFY ACTUAL CEILING CONSTRUCTION TYPE AS DEFINED ON THE ARCHITECTURAL DRAWINGS AND FURNISH ALL LIGHT FIXTURES WITH THE CORRECT MOUNTING DEVICES WHETHER OR NOT SUCH VARIATIONS ARE INDICATED BY THE LIGHT FIXTURE CATALOG NUMBER. VERIFY THE DEPTH OF ALL</li> </ul>	2. 3. 4. 5.	ALL FIRE ALARI COMPATIBLE W ALL WIRING AN MINIMUM 300V 19 STRANDS. LOW VOLTAGE NFPA 72, AND A CONDUCTORS SURVIVABILITY APPLIANCE CIF NOTIFICATION UNTIL THE POIL MANUAL PULL S THAN 48" TO HA PROVIDE MINI
HALL BE COMPLETELY RIAL). CHES. THE INTEGRITY OT EXCEED 100 E ASSEMBLIES SHALL ES. G MEMBERS. TO EXCEED 1/8 INCH OF THE OPENING. FLUSH MOUNTED IN S, CEILINGS, OR DUNTED, UNLESS WRITTEN PERMISSION.	4. 1. 2. 3.	<ul> <li>WHERE A PHASE CONDUCTOR IS INCREASED IN SIZE DUE TO VOLTAGE DROP, THE EQUIPMENT GROUND CONDUCTOR SHALL BE INCREASED IN SIZE PROPORTIONATELY.</li> <li>PROVIDE A GROUND BUS BAR IN EACH ELECTRICAL ROOM AND TELECOMMUNICATIONS / IDF/ MDF ROOM FOR ALL NEW CONSTRUCTION AND NEW ROOMS IN EXISTING CONSTRUCTION, AND IN EXISTING CONSTRUCTION WHERE THERE IS NONE INSTALLED WITHIN AN EXISTING ROOM.</li> <li>LIGHT FIXTURES SUPPORTED BY CEILING GRID SHALL BE SUPPORTED AS FOLLOWS: LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS SHALL HAVE 12-GAUGE HANGER WIRE CONNECTED FROM THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING 10 POUNDS OR MORE SHALL HAVE (2) 12-GAUGE HANGER WIRES ATTACHED AT OPPOSITE CORNERS OF THE LIGHT FIXTURE TO THE STRUCTURE ABOVE.</li> <li>COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES IN LAY-IN AND GYPBOARD CEILINGS WITH ARCHITECTURAL REFLECTED CEILING PLANS, AND WALL MOUNTED EXTERIOR AND INTERIOR LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION. WHERE THE QUANTITY OF LIGHTS DIFFERS BETWEEN THE ARCHITECTURAL RCP AND THE ELECTRICAL LIGHTING PLANS, PROVIDE THE HIGHEST QUANTITY OF FIXTURES IN THE BID PRICE. THE DISCREPANCY IN QUANTITY SHALL BE BROUGHT TO THE ATTENTION OF THE A/E. THE HIGHEST QUANTITY SHALL BE CIRCUITED TO THE LOCAL ROOM OR AREA LIGHTING CIRCUITS AND LIGHTING CONTROL DEVICES, UNLESS OTHERWISE DIRECTED IN WRITING BY THE ARCHITECT/ENGINEER.</li> <li>VERIFY ACTUAL CEILING CONSTRUCTION TYPE AS DEFINED ON THE ACCHITECTURAL DRAWINGS AND FURNISH ALL LIGHT FIXTURES WITH THE ACCHITECT/ENGINEER.</li> <li>VERIFY ACTUAL CEILING CONSTRUCTION TYPE AS DEFINED ON THE ACCHITECTURAL DRAWINGS AND FURNISH ALL LIGHT FIXTURES WITH THE ACCHITECT/ENGINEER.</li> <li>VERIFY ACTUAL CEILING CONSTRUCTION TYPE AS DEFINED ON THE ACCHITECTURAL DRAWINGS AND FURNISH ALL LIGHT FIXTURES WITH THE ACCHITECT/ENGINEER.</li> <li>VERIFY ACTUAL CEILING CONSTRUCTION TYPE AS DEFINED ON THE ACCHITECTURAL DRAWINGS AND FURNISH ALL LIGHT FIXTURES WITH THE ACCHITECT/ENGINEER.<!--</td--><td>2. 3. 4. 5.</td><td>ALL FIRE ALARI COMPATIBLE W ALL WIRING AN MINIMUM 300V 19 STRANDS. LOW VOLTAGE NFPA 72, AND A CONDUCTORS SURVIVABILITY APPLIANCE CIF NOTIFICATION UNTIL THE POIL MANUAL PULL S THAN 48" TO HA PROVIDE MINII LAST DEVICE T PROVIDE FIRE WITHIN 5' OF AI ON ELECTRICA FIRE ALARM CO EQUIPMENT GF ARTICLE 760 O</td></li></ul>	2. 3. 4. 5.	ALL FIRE ALARI COMPATIBLE W ALL WIRING AN MINIMUM 300V 19 STRANDS. LOW VOLTAGE NFPA 72, AND A CONDUCTORS SURVIVABILITY APPLIANCE CIF NOTIFICATION UNTIL THE POIL MANUAL PULL S THAN 48" TO HA PROVIDE MINII LAST DEVICE T PROVIDE FIRE WITHIN 5' OF AI ON ELECTRICA FIRE ALARM CO EQUIPMENT GF ARTICLE 760 O
HALL BE COMPLETELY RIAL). CHES. THE INTEGRITY DT EXCEED 100 E ASSEMBLIES SHALL ES. G MEMBERS. TO EXCEED 1/8 INCH OF THE OPENING. FLUSH MOUNTED IN S, CEILINGS, OR DUNTED, UNLESS WRITTEN PERMISSION. CAL EQUIPMENT, D) LOCATION ETHER INDICATED TED UP.	4. 1. 2.	<ul> <li>WHERE A PHASE CONDUCTOR IS INCREASED IN SIZE DUE TO VOLTAGE DROP, THE EQUIPMENT GROUND CONDUCTOR SHALL BE INCREASED IN SIZE PROPORTIONATELY.</li> <li>PROVIDE A GROUND BUS BAR IN EACH ELECTRICAL ROOM AND TELECOMMUNICATIONS / IDF/ MDF ROOM FOR ALL NEW CONSTRUCTION AND NEW ROOMS IN EXISTING CONSTRUCTION, AND IN EXISTING CONSTRUCTION WHERE THERE IS NONE INSTALLED WITHIN AN EXISTING ROOM.</li> <li>LIGHT FIXTURES SUPPORTED BY CEILING GRID SHALL BE SUPPORTED AS FOLLOWS: LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS SHALL HAVE 12-GAUGE HANGER WIRE CONNECTED FROM THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING 10 POUNDS OR MORE SHALL HAVE (2) 12-GAUGE HANGER WIRES ATTACHED AT OPPOSITE CORNERS OF THE LIGHT FIXTURE TO THE STRUCTURE ABOVE.</li> <li>COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES IN LAY-IN AND GYPBOARD CEILINGS WITH ARCHITECTURAL REFLECTED CEILING PLANS, AND WALL MOUNTED EXTERIOR AND INTERIOR LIGHT FIXTURES WEIGHT ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION. WHERE THE QUANTITY OF LIGHTS DIFFERS BETWEEN THE ARCHITECTURAL RCP AND THE ELECTRICAL LIGHTING PLANS, PROVIDE THE HIGHEST QUANTITY OF FIXTURES IN THE BID PRICE. THE DISCREPANCY IN QUANTITY SHALL BE BROUGHT TO THE ATTENTION OF THE A/E. THE HIGHEST QUANTITY SHALL BE CIRCUITED TO THE LOCAL ROOM OR AREA LIGHTING CIRCUITS AND LIGHTING CONTROL DEVICES, UNLESS OTHERWISE DIRECTED IN WRITING BY THE ARCHITECT/ENGINEER.</li> <li>VERIFY ACTUAL CEILING CONSTRUCTION TYPE AS DEFINED ON THE ARCHITECTURAL DRAWINGS AND FURNISH ALL LIGHT FIXTURES WITH THE CORRECT MOUNTING DEVICES WHETHER OR NOT SUCH VARIATIONS ARE INDICATED BY THE LIGHT FIXTURE CATALOG NUMBER. VERIFY THE DEPTH OF ALL RECESSED LIGHT FIXTURES WITH THE ARCHITECTURAL DRAWINGS PRIOR TO ORDERING LIGHT FIXTURES. ANY DISCREPANCIES THAT WOULD CAUSE THE RECESSED LIGHT FIXTURES NOT TO FIT</li> </ul>	2. 3. 4. 5. 6. 7.	ALL FIRE ALARI COMPATIBLE W ALL WIRING AN MINIMUM 300V 19 STRANDS. LOW VOLTAGE NFPA 72, AND A CONDUCTORS SURVIVABILITY APPLIANCE CIF NOTIFICATION UNTIL THE POIL MANUAL PULL S THAN 48" TO HA PROVIDE MINII LAST DEVICE T PROVIDE FIRE WITHIN 5' OF AI ON ELECTRICA FIRE ALARM CO EQUIPMENT GF ARTICLE 760 OI PANEL NEUTRA LIFE SAFETY B SECONDARY B
HALL BE COMPLETELY RIAL). CHES. THE INTEGRITY DT EXCEED 100 E ASSEMBLIES SHALL ES. G MEMBERS. TO EXCEED 1/8 INCH OF THE OPENING. FLUSH MOUNTED IN S, CEILINGS, OR DUNTED, UNLESS WRITTEN PERMISSION. CAL EQUIPMENT, D) LOCATION ETHER INDICATED TED UP. STALL SO THAT E LOCATED	4. 1. 2. 3.	<ul> <li>WHERE A PHASE CONDUCTOR IS INCREASED IN SIZE DUE TO VOLTAGE DROP, THE EQUIPMENT GROUND CONDUCTOR SHALL BE INCREASED IN SIZE PROPORTIONATELY.</li> <li>PROVIDE A GROUND BUS BAR IN EACH ELECTRICAL ROOM AND TELECOMMUNICATIONS / IDF/ MDF ROOM FOR ALL NEW CONSTRUCTION AND NEW ROOMS IN EXISTING CONSTRUCTION, AND IN EXISTING CONSTRUCTION WHERE THERE IS NONE INSTALLED WITHIN AN EXISTING ROOM.</li> <li>LIGHT FIXTURES SUPPORTED BY CEILING GRID SHALL BE SUPPORTED AS FOLLOWS: LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS SHALL HAVE 12-GAUGE HANGER WIRE CONNECTED FROM THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING 10 POUNDS OR MORE SHALL HAVE (2) 12-GAUGE HANGER WIRES ATTACHED AT OPPOSITE CORNERS OF THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING 10 POUNDS OR MORE SHALL HAVE (2) 12-GAUGE HANGER WIRES ATTACHED AT OPPOSITE CORNERS OF THE LIGHT FIXTURE TO THE STRUCTURE ABOVE.</li> <li>COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES IN LAY-IN AND GYPBOARD CEILINGS WITH ARCHITECTURAL REFLECTED CEILING PLANS, AND WALL MOUNTED EXTERIOR AND INTERIOR LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION. WHERE THE QUANTITY OF LIGHTS DIFFERS BETWEEN THE ARCHITECTURAL RCP AND THE BLECTRICAL LIGHTING PLANS, PROVIDE THE HIGHEST QUANTITY OF FIXTURES IN THE BID PRICE. THE DISCREPANCY IN QUANTITY SHALL BE BROUGHT TO THE ATTENTION OF THE A/E. THE HIGHEST QUANTITY SHALL BE CIRCUITED TO THE LOCAL ROOM OR AREA LIGHTING CIRCUITS AND LIGHTING CONTROL DEVICES, UNLESS OTHERWISE DIRECTED IN WRITING BY THE ARCHITECT/ENGINEER.</li> <li>VERIFY ACTUAL CELLING CONSTRUCTION TYPE AS DEFINED ON THE ARCHITECTURAL DRAWINGS AND FURNISH ALL LIGHT FIXTURES WITH THE CORRECT MOUNTING DEVICES WHETHER OR NOT SUCH VARIATIONS ARE INDICATED BY THE LIGHT FIXTURE CATALOG NUMBER. VERIFY THE DEPTH OF ALL RECESSED LIGHT FIXTURES WITH THE ACCHITECT/ENGINEER PRIOR TO ORDERING LIGHT FIXTURES. ANY DISCREPANCIES THAT WOULD CAUSE THE RECESSED LIGHT FIXTURES NOT TO FIT INTO CEILING SHALL BE REPORTED TO ARCHI</li></ul>	<ol> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> </ol>	ALL FIRE ALARI COMPATIBLE W ALL WIRING AN MINIMUM 300V 19 STRANDS. LOW VOLTAGE NFPA 72, AND A CONDUCTORS SURVIVABILITY APPLIANCE CIF NOTIFICATION UNTIL THE POIL MANUAL PULL S THAN 48" TO HA PROVIDE MINIE LAST DEVICE T PROVIDE FIRE WITHIN 5' OF AU ON ELECTRICA FIRE ALARM CO EQUIPMENT GF ARTICLE 760 OI PANEL NEUTRA LIFE SAFETY B SECONDARY B FIRE ALARM CO FOR A MINIMUM ALARM OPERA
HALL BE COMPLETELY RIAL). CHES. THE INTEGRITY DT EXCEED 100 EASSEMBLIES SHALL ES. G MEMBERS. TO EXCEED 1/8 INCH OF THE OPENING. FLUSH MOUNTED IN S, CEILINGS, OR DUNTED, UNLESS WRITTEN PERMISSION. CAL EQUIPMENT, D) LOCATION ETHER INDICATED TED UP. STALL SO THAT E LOCATED RECEPTACLES C SHALL BE	<ol> <li>4.</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> </ol>	<ul> <li>WHERE A PHASE CONDUCTOR IS INCREASED IN SIZE DUE TO VOLTAGE DROP, THE EQUIPMENT GROUND CONDUCTOR SHALL BE INCREASED IN SIZE PROPORTIONATELY.</li> <li>PROVIDE A GROUND BUS BAR IN EACH ELECTRICAL ROOM AND TELECOMMUNICATIONS / IDF/ MDF ROOM FOR ALL NEW CONSTRUCTION AND NEW ROOMS IN EXISTING CONSTRUCTION, AND IN EXISTING CONSTRUCTION WHERE THERE IS NONE INSTALLED WITHIN AN EXISTING ROOM.</li> <li>LIGHTING:</li> <li>LIGHT FIXTURES SUPPORTED BY CEILING GRID SHALL BE SUPPORTED AS FOLLOWS: LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS SHALL HAVE 12-GAUGE HANGER WIRE CONNECTED FROM THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING 10 POUNDS OR MORE SHALL HAVE (2) 12-GAUGE HANGER WIRES ATTACHED AT OPPOSITE CORNERS OF THE LIGHT FIXTURE TO THE STRUCTURE ABOVE.</li> <li>COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES IN LAY-IN AND GYPBOARD CEILINGS WITH ARCHITECTURAL REFLECTED CEILING PLANS, AND WALL MOUNTED EXTERIOR AND INTERIOR LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION. WHERE THE QUANTITY OF LIGHTS DIFFERS BETWEEN THE ARCHITECTURAL RCP AND THE ELECTRICAL LIGHTING PLANS, PROVIDE THE HIGHEST QUANTITY OF FIXTURES IN THE BID PRICE. THE DISCREPANCY IN QUANTITY SHALL BE BROUGHT TO THE ATTENTION OF THE AVE. THE HIP RICLE. THE DISCREPANCY IN QUANTITY SHALL BE ROUGHT TO THE ATTENTION OF THE AVE. THE HIP RICLE. THE DISCREPANCY IN QUANTITY SHALL BE ROUGHT ON THE ARCHITECTVENAL DRAWINGS ONTROL DEVICES, UNLESS OTHERWISE DIRECTED IN WRITING BY THE ARCHITECT/ENGINEER.</li> <li>VERIFY ACTUAL CEILING CONSTRUCTION TYPE AS DEFINED ON THE ARCHITECTURAL DRAWINGS AND FURNISH ALL LIGHT FIXTURES WITH THE ACCHITECT/ENGINEER.</li> <li>VERIFY ACTUAL CEILING CONSTRUCTION TYPE AS DEFINED ON THE ARCHITECTURAL DRAWINGS AND FURNISH ALL LIGHT FIXTURES WITH THE ACCHITECT/ENGINEER.</li> <li>VERIFY ACTUAL CEILING CONSTRUCTION TYPE AS DEFINED ON THE ARCHITECTURAL DRAWINGS AND FURNISH ALL LIGHT FIXTURES WITH THE ACCHITECT/ENGINEER PRIOR TO ORDERING LIGHT FIXTURES. NOT DISTRUCTION OF</li></ul>	<ol> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> </ol>	ALL FIRE ALARI COMPATIBLE W ALL WIRING AN MINIMUM 300V 19 STRANDS. LOW VOLTAGE NFPA 72, AND A CONDUCTORS SURVIVABILITY APPLIANCE CIF NOTIFICATION UNTIL THE POIL MANUAL PULL S THAN 48" TO HA PROVIDE MINII LAST DEVICE T PROVIDE FIRE WITHIN 5' OF AI ON ELECTRICA FIRE ALARM CO EQUIPMENT GF ARTICLE 760 OI PANEL NEUTRA LIFE SAFETY BI SECONDARY B. FIRE ALARM CO FOR A MINIMUM ALARM OPERA ALL FIRE ALARI SHALL BE RED POSITION), MAI
ALL BE COMPLETELY RIAL). CHES. THE INTEGRITY DT EXCEED 100 E ASSEMBLIES SHALL ES. G MEMBERS. TO EXCEED 1/8 INCH OF THE OPENING. ELUSH MOUNTED IN S, CEILINGS, OR DUNTED, UNLESS WRITTEN PERMISSION. CAL EQUIPMENT, D) LOCATION ETHER INDICATED TED UP. STALL SO THAT E LOCATED RECEPTACLES C SHALL BE TO MOISTURE ALL EXTERIOR NOTED OTHERWISE.	<ol> <li>4.</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> </ol>	<ul> <li>WHERE A PHASE CONDUCTOR IS INCREASED IN SIZE DUE TO VOLTAGE DROP, THE EQUIPMENT GROUND CONDUCTOR SHALL BE INCREASED IN SIZE PROPORTIONATELY.</li> <li>PROVIDE A GROUND BUS BAR IN EACH ELECTRICAL ROOM AND TELECOMMUNICATIONS / IDF/ MDF ROOM FOR ALL NEW CONSTRUCTION AND NEW ROOMS IN EXISTING CONSTRUCTION, AND IN EXISTING CONSTRUCTION WHERE THERE IS NONE INSTALLED WITHIN AN EXISTING ROOM.</li> <li>LIGHT FIXTURES SUPPORTED BY CEILING GRID SHALL BE SUPPORTED AS FOLLOWS: LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS SHALL HAVE 12-GAUGE HANGER WIRE CONNECTED FROM THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING 10 POUNDS OR MORE SHALL HAVE (2) 12-GAUGE HANGER WIRES ATTACHED AT OPPOSITE CORNERS OF THE LIGHT FIXTURE TO THE STRUCTURE ABOVE.</li> <li>COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES IN LAY-IN AND GYPBOARD CEILINGS WITH ARCHITECTURAL REFLECTED CEILING PLANS, AND WALL MOUNTED EXTERIOR AND INTERIOR LIGHT FIXTURES SUPPORTED BY CEILING PLANS, AND WALL MOUNTED EXTERIOR AND INTERIOR LIGHT FIXTURES SUPPORTED THE ARCHITECTURAL RCP AND THE ELECTRICAL LIGHTING PLANS, PROVIDE THE HIGHEST QUANTITY OF FIXTURES IN THE BID PRICE. THE DISCREPANCY IN QUANTITY SHALL BE BROUGHT TO THE ATTENTION OF THE ACL THE HIGHEST QUANTITY SHALL BE CIRCUITED TO THE LOCAL ROOM OR AREA LIGHTING CIRCUITS AND LIGHTING CONTROL DEVICES, UNLESS OTHERWISE DIRECTED IN WRITING BY THE ARCHITECTIRNINGER.</li> <li>VERFY ACTUAL CEILING CONSTRUCTION TYPE AS DEFINED ON THE ARCHITECTURAL DRAWINGS AND FUNNISH ALL LIGHT FIXTURES WITH THE CORRECT MOUNTING DEVICES WHETHER OR NOT SUCH VARATIONS ARE INDICATED BY THE LIGHT FIXTURE CATALOG NUMBER. VERIFY THE DEPTH OF ALL RECESSED LIGHT FIXTURES WITH THE CORRECT MOUNTING DEVICES WHETHER OR NOT SUCH VARATIONS ARE INDICATED BY THE LIGHT FIXTURE CATALOG NUMBER. VERIFY THE DEPTH OF ALL RECESSED LIGHT FIXTURES WITH THE CORNECT MOUNTING DEVICES WHETHER OR NOT SUCH VARATIONS ARE INDICATED BY THE LIGHT FIXTURE CATALOG NUMBER. VERIFY THE DEPTH OF ALL RECESSED LIGHT FIXTURES THAT WOULD C</li></ul>	<ol> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> <li>11.</li> </ol>	ALL FIRE ALARI COMPATIBLE W ALL WIRING AN MINIMUM 300V 19 STRANDS. LOW VOLTAGE NFPA 72, AND A CONDUCTORS SURVIVABILITY APPLIANCE CIF NOTIFICATION UNTIL THE POIL MANUAL PULL S THAN 48" TO HA PROVIDE MINIE LAST DEVICE T PROVIDE FIRE WITHIN 5' OF AI ON ELECTRICA FIRE ALARM CO EQUIPMENT GF ARTICLE 760 OF PANEL NEUTRA LIFE SAFETY B SECONDARY B. FIRE ALARM CO FOR A MINIMUM ALARM OPERAT ALL FIRE ALARI SHALL BE RED POSITION), MAI A SUPERVISOR FAILURE OR RE SIGNAL.
HALL BE COMPLETELY RIAL). CHES. THE INTEGRITY DT EXCEED 100 EASSEMBLIES SHALL ES. G MEMBERS. TO EXCEED 1/8 INCH OF THE OPENING. FLUSH MOUNTED IN S, CEILINGS, OR DUNTED, UNLESS WRITTEN PERMISSION. CAL EQUIPMENT, D) LOCATION ETHER INDICATED FED UP. STALL SO THAT E LOCATED RECEPTACLES C SHALL BE TO MOISTURE ALL EXTERIOR NOTED OTHERWISE. ISIDE FACE OF A DR SUMP PUMP, O OTHER AREAS AS	<ol> <li>4.</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> </ol>	<ul> <li>WHERE A PHASE CONDUCTOR IS INCREASED IN SIZE DUE TO VOLTAGE DROP, THE EQUIPMENT GROUND CONDUCTOR SHALL BE INCREASED IN SIZE PROPORTIONATELY.</li> <li>PROVIDE A GROUND BUS BAR IN EACH ELECTRICAL ROOM AND TELECOMMUNICATIONS / IDF/ MDF ROOM FOR ALL NEW CONSTRUCTION AND NEW ROOMS IN EXISTING CONSTRUCTION, AND IN EXISTING CONSTRUCTION WHERE THERE IS NONE INSTALLED WITHIN AN EXISTING ROOM.</li> <li>LIGHT FIXTURES SUPPORTED BY CEILING GRID SHALL BE SUPPORTED AS FOLLOWS: LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS SHALL HAVE 12-GAUGE HANGER WIRE CONNECTED FROM THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING 10 POUNDS OR MORE SHALL HAVE (2) 12-GAUGE HANGER WIRES ATTACHED AT OPPOSITE CORNERS OF THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING 10 POUNDS OR MORE SHALL HAVE (2) 12-GAUGE HANGER WIRES ATTACHED AT OPPOSITE CORNERS OF THE LIGHT FIXTURE TO THE STRUCTURE ABOVE.</li> <li>COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES AT LATION. WHERE THE QUANTITY OF FIXTURES WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION. WHERE THE QUANTITY OF LIGHTS DIFFERS BETWEEN THE ARCHITECTURAL RCP AND THE ELECTRICAL LIGHTING PLANS, PROVIDE THE HIGHEST QUANTITY OF FIXTURES IN THE BID PRICE. THE DISCREPANCY IN QUANTITY SHALL BE BROUGHT TO THE ATTENTION OF THE ARC. THE HIGHEST GUANTITY SHALL BE CIRCUITED TO THE LOCAL ROOM OR AREA LIGHTING CIRCUITS AND LIGHTING CONTROL DEVICES, UNLESS OTHERWISE DIRECTED IN WRITING BY THE ARCHITECT/ENGINEER.</li> <li>VERIFY ACTUAL CEILING SONTUCION TYPE AS DEFINED ON THE ARCHITECTURAL DRAWINGS AND FURNISH ALL LIGHT FIXTURES WITH THE CORRECT MOUNTING DEVICES WHETHER OR NOT SUCH VARIATIONS ARE INDICATED BY THE LIGHT FIXTURE CATALOG NUMBER, VERIFY THE DEPTH OF ALL RECESSED LIGHT FIXTURES WITH THE CORRECT MOUNTING DEVICES WHETHER OR NOT SUCH VARIATIONS ARE INDICATED BY THE LIGHT FIXTURE CATALOG NUMBER, VERIFY THE DEPTH OF ALL RECESSED LIGHT FIXTURES WITH THE CORRECT MOUNTING DEVICES DEFINED LIGHT FIXTURES. MODIFY ALL LIGHT FIXTURES WITH THE CORRECT M</li></ul>	<ol> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> </ol>	ALL FIRE ALARI COMPATIBLE W ALL WIRING AN MINIMUM 300V 19 STRANDS. LOW VOLTAGE NFPA 72, AND A CONDUCTORS SURVIVABILITY APPLIANCE CIF NOTIFICATION UNTIL THE POIL MANUAL PULL S THAN 48" TO HA PROVIDE MINIE LAST DEVICE T PROVIDE FIRE WITHIN 5' OF AI ON ELECTRICA FIRE ALARM CO EQUIPMENT GF ARTICLE 760 OF PANEL NEUTRA LIFE SAFETY B SECONDARY B. FIRE ALARM CO FOR A MINIMUM ALARM OPERAT ALL FIRE ALARI SHALL BE RED POSITION), MAI A SUPERVISOR FAILURE OR RE SIGNAL. A CERTIFICATIO
ALL BE COMPLETELY RIAL). CHES. THE INTEGRITY OT EXCEED 100 E ASSEMBLIES SHALL ES. G MEMBERS. TO EXCEED 1/8 INCH OF THE OPENING. CO EXCEED 1/8 INCH OF THE OPENING. CUSH MOUNTED IN S, CEILINGS, OR OUNTED, UNLESS WRITTEN PERMISSION. CAL EQUIPMENT, D) LOCATION ETHER INDICATED TED UP. STALL SO THAT E LOCATED RECEPTACLES C SHALL BE TO MOISTURE ALL EXTERIOR NOTED OTHERWISE. ISIDE FACE OF A OR SUMP PUMP, O OTHER AREAS AS FACILITIES SHALL BE	<ol> <li>4.</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> </ol>	<ul> <li>WHERE A PHASE CONDUCTOR IS INCREASED IN SIZE DUE TO VOLTAGE DROP, THE EQUIPMENT GROUND CONDUCTOR SHALL BE INCREASED IN SIZE PROPORTIONATELY.</li> <li>PROVIDE A GROUND BUS BAR IN EACH ELECTRICAL ROOM AND TELECOMMUNICATIONS / IDF/ MDF ROOM FOR ALL NEW CONSTRUCTION AND NEW ROOMS IN EXISTING CONSTRUCTION, AND IN EXISTING CONSTRUCTION WHERE THERE IS NONE INSTALLED WITHIN AN EXISTING ROOM.</li> <li>LIGHT FIXTURES SUPPORTED BY CEILING GRID SHALL BE SUPPORTED AS FOLLOWS: LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS SHALL HAVE 12-GAUGE HANGER WIRE CONNECTED FROM THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING 10 POUNDS OR MORE SHALL HAVE (2) 12-GAUGE HANGER WIRES ATTACHED AT OPPOSITE CORNERS OF THE LIGHT FIXTURE TO THE STRUCTURE ABOVE.</li> <li>COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES IN LAY-IN AND GYPBOARD CEILINGS WITH ARCHITECTURAL REFLECTED CEILING PLANS, AND WALL MOUNTED EXTERIOR AND INTERIOR LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION. WHERE THE QUANTITY OF LIGHTS DIFFERS BETWEEN THE ARCHITECTURAL RCP AND THE ELECTRICAL LIGHTING PLANS, PROVIDE THE HIGHEST QUANTITY OF FIXTURES IN LAY-IN AND GYPBOARD CEILINGS WITH ARCHITECTURAL REFLECTED CEILING PLANS, AND WALL MOUNTED EXTERIOR AND INTERIOR LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION. WHERE THE QUANTITY OF LIGHTS DIFFERS BETWEEN THE ARCHITECTURAL RCP AND THE ELECTRICAL LIGHTING PLANS, PROVIDE THE HIGHEST QUANTITY OF FIXTURES IN THE BID PRICE. THE DISCREPANCY IN QUANTITY SHALL BE BROUGHT TO THE ATTENTION OF THE A/E. THE HIGHEST QUANTITY SHALL BE CIRCUITED TO THE LOCAL ROOM OR AREA LIGHTING CIRCUITS AND LIGHTING CONTROL DEVICES, UNLESS OTHERWISS DIRECTED IN WRITING BY THE ARCHITECT/ENGINEER.</li> <li>VERIFY ACTUAL CEILING CONSTRUCTION TYPE AS DEFINED ON THE ARCHITECTURAL DRAWINGS AND FUNNISH ALL LIGHT FIXTURES WITH THE CORRECT MOUNTING DEVICES WHETHER ON ON OUCH ANDINGS ARE INDICATED BY THE LIGHT FIXTURE CATALGO NUMBERS KETTY THE DEPTH OF ALL RECESSED LIGHT FIXTURES THAT WO</li></ul>	<ol> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> <li>11.</li> <li>12.</li> <li>13.</li> <li>14.</li> </ol>	ALL FIRE ALARI COMPATIBLE W ALL WIRING AN MINIMUM 300V 19 STRANDS. LOW VOLTAGE NFPA 72, AND A CONDUCTORS SURVIVABILITY APPLIANCE CIF NOTIFICATION UNTIL THE POIL MANUAL PULL 3 THAN 48" TO HA PROVIDE MINIE LAST DEVICE T PROVIDE FIRE WITHIN 5' OF AI ON ELECTRICA FIRE ALARM CO EQUIPMENT GF ARTICLE 760 OI PANEL NEUTRA LIFE SAFETY BI SECONDARY B. FIRE ALARM CO FOR A MINIMUM ALARM OPERAT ALL FIRE ALARI SHALL BE RED POSITION), MAI A SUPERVISOR FAILURE OR RE SIGNAL. A CERTIFICATIO THE FIRE ALARI CANDELA RATI STROBES ARE ALL STROBES S
HALL BE COMPLETELY RIAL). CHES. THE INTEGRITY DT EXCEED 100 EASSEMBLIES SHALL ES. G MEMBERS. TO EXCEED 1/8 INCH OF THE OPENING. FLUSH MOUNTED IN S, CEILINGS, OR DUNTED, UNLESS WRITTEN PERMISSION. CAL EQUIPMENT, D) LOCATION ETHER INDICATED FED UP. STALL SO THAT E LOCATED RECEPTACLES C SHALL BE TO MOISTURE ALL EXTERIOR NOTED OTHERWISE. ISIDE FACE OF A DR SUMP PUMP, O OTHER AREAS AS	<ol> <li>4.</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> </ol>	<ul> <li>WHERE A PHASE CONDUCTOR IS INCREASED IN SIZE DUE TO VOLTAGE DROP, THE EQUIPMENT GROUND CONDUCTOR SHALL BE INCREASED IN SIZE PROPORTIONATELY.</li> <li>PROVIDE A GROUND BUS BAR IN EACH ELECTRICAL ROOM AND TELECOMMUNICATIONS / IDF/ MDF ROOM FOR ALL NEW CONSTRUCTION AND NEW ROOMS IN EXISTING CONSTRUCTION, AND IN EXISTING CONSTRUCTION WHERE THERE IS NONE INSTALLED WITHIN AN EXISTING ROOM.</li> <li>LIGHTING:</li> <li>LIGHT FIXTURES SUPPORTED BY CEILING GRID SHALL BE SUPPORTED AS FOLLOWS: LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS SHALL HAVE 12-GAUGE HANGER WIRE CONNECTED FROM THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING 10 POUNDS OR MORE SHALL HAVE (2) 12-GAUGE HANGER WIRES ATTACHED AT OPPOSITE CORNERS OF THE LIGHT FIXTURE TO THE STRUCTURE ABOVE.</li> <li>COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES IN LAY-IN AND GYPBOARD CEILINGS WITH ARCHITECTURAL REFLECTED CEILING PLANS, AND WALL MOUNTED EXTERIOR AND INTERIOR LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION. WHERE THE QUANTITY OF LIGHTS DIFFERS BETWEEN THE ARCHITECTURAL RCP AND THE ELECTRICAL LIGHTING PLANS, POVIDE THE HIGHEST QUANTITY OF FILTURES IN THE BID PRICE. THE DISCREPANCY IN QUANTITY SHALL BE BROUGHT TO THE ATTENTION OF THE AZE. THE HIGHEST QUANTITY SHALL BE CIRCUITED TO THE LOCAL ROOM OR AREA LIGHTING CIRCUITS AND LIGHTING CONTROL DEVICES, UNLESS OTHERWISE DIRECTED IN WRITING BY THE ARCHITECT/ENGINEER.</li> <li>VERIFY ACTUAL CEILING CONSTRUCTION TYPE AS DEFINED ON THE ARCHITECTURAL DRAWINGS AND THENNIS DIRCATED BY THE LIGHT FIXTURE CATALOG NUMBER VERIFY THE DEPTH OF ALL RECESSED LIGHT FIXTURES WITH THE CARLITECT/ENGINEER PRIOR TO ORDERING LIGHT FIXTURES AND DISCREPANCIES THAT WOULD CAUSE THE RECESSED LIGHT FIXTURES NOT TO FIT INTO CEILING SHALL BE REPORTED TO ARCHITECT/ENGINEER PRIOR TO ORDERING LIGHT FIXTURES.</li> <li>VERIFY ACTUAL CEILING SINDICATED BY THE DECILING SINDLED DY THE PREPOVED FIRE-RATED ENCLOSURE WITH A FIRE RATING EQUAL TO THAT OF THE COLLING. PROVIDE A MINIMUM</li></ul>	<ol> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> <li>11.</li> <li>12.</li> <li>13.</li> <li>14.</li> <li>15.</li> <li>16.</li> </ol>	ALL FIRE ALARI COMPATIBLE W ALL WIRING AN MINIMUM 300V 19 STRANDS. LOW VOLTAGE NFPA 72, AND A CONDUCTORS SURVIVABILITY APPLIANCE CIF NOTIFICATION UNTIL THE POIL MANUAL PULL S THAN 48" TO HA PROVIDE MINIE LAST DEVICE T PROVIDE FIRE WITHIN 5' OF AU ON ELECTRICA FIRE ALARM CO EQUIPMENT GF ARTICLE 760 OF PANEL NEUTRA LIFE SAFETY B SECONDARY B. FIRE ALARM CO FOR A MINIMUM ALARM OPERA SECONDARY B. FIRE ALARM CO FOR A MINIMUM ALARM OPERA ALL FIRE ALARI STROBES ARE ALL STROBES SHAU
ALL BE COMPLETELY RIAL). CHES. THE INTEGRITY OT EXCEED 100 EASSEMBLIES SHALL ES. G MEMBERS. TO EXCEED 1/8 INCH OF THE OPENING. TO EXCEED 1/8 INCH OF THE OPENING. FLUSH MOUNTED IN S, CEILINGS, OR DUNTED, UNLESS WRITTEN PERMISSION. CAL EQUIPMENT, D) LOCATION ETHER INDICATED TED UP. STALL SO THAT ELOCATED RECEPTACLES C SHALL BE TO MOISTURE ALL EXTERIOR NOTED OTHERWISE. ISIDE FACE OF A DR SUMP PUMP, O THER AREAS AS FACILITIES SHALL BE	<ol> <li>4.</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> <li>11.</li> </ol>	WHERE A PHASE CONDUCTOR IS INCREASED IN SIZE DUE TO VOLTAGE DROP, THE EQUIPMENT GROUND CONDUCTOR SHALL BE INCREASED IN SIZE PROPORTIONATELY. PROVIDE A GROUND BUS BAR IN EACH ELECTRICAL ROOM AND TELECOMMUNICATIONS / IDF/ MDF ROOM FOR ALL NEW CONSTRUCTION AND NEW ROOMS IN EXISTING CONSTRUCTION, AND IN EXISTING CONSTRUCTION WHERE THERE IS NONE INSTALLED WITHIN AN EXISTING ROOM. LIGHT FIXTURES SUPPORTED BY CEILING GRID SHALL BE SUPPORTED AS FOLLOWS: LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS SHALL HAVE 12-GAUGE HANGER WIRE CONNECTED FROM THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING 10 POUNDS OR MORE SHALL HAVE (2) 12-GAUGE HANGER WIRES ATTACHED AT OPPOSITE CORNERS OF THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURE TO THE STRUCTURE ABOVE. COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES IN LAY-IN AND GYPBOARD CEILINGS WITH ARCHITECTURAL REFLECTED CEILING PLANS, AND WALL MOUNTED EXTERIOR AND INTERIOR LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION. WHERE THE DUANTITY OF LIGHTS DIFFERS BETWEEN THE ARCHITECTURAL RCP AND THE ELECTRICAL LIGHTING PLANS, PROVIDE THE HIGHEST QUANTITY OF FIXTURES IN THE BID PRICE. THE DISCREPANCY IN QUANTITY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECTURAL CHAINES PRIOR TO ONTROL DEVICES, UNLESS OTHERWISE DIRECTED IN WRITING BY THE ARCHITECTURAL DRAWINGS AND FURNISH ALL LIGHT FIXTURES WITH THE ARCHITECTURAL DRAWINGS PRIOR TO ORDERING LIGHT FIXTURES. AND YONG CONSTRUCTION TYPE AS DEFINED ON THE ARCHITECTURAL DRAWINGS AND FURNISH ALL LIGHT FIXTURES WITH THE ARCHITECTURAL DRAWINGS PRIOR TO ORDERING LIGHT FIXTURES INFALLED. VERIEY ACTUAL CELLING CONSTRUCTION TYPE AS DEFINED ON THE ARCHITECTURAL DRAWINGS AND FURNISH ALL LIGHT FIXTURES WITH THE ARCHITECTURES ONE TO FIT INTO CEILING SHALL BE REPORTED TO ARCHITECTURAL DRAWINGS PRIOR TO ORDERING LIGHT FIXTURES. A	<ol> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> <li>11.</li> <li>12.</li> <li>13.</li> <li>14.</li> <li>15.</li> </ol>	ALL FIRE ALARI COMPATIBLE W ALL WIRING AN MINIMUM 300V 19 STRANDS. LOW VOLTAGE NFPA 72, AND A CONDUCTORS SURVIVABILITY APPLIANCE CIF NOTIFICATION UNTIL THE POIL MANUAL PULL 3 THAN 48" TO HA PROVIDE MINII LAST DEVICE T PROVIDE FIRE WITHIN 5' OF AI ON ELECTRICA FIRE ALARM CO EQUIPMENT GF ARTICLE 760 OI PANEL NEUTRA LIFE SAFETY B SECONDARY BA FIRE ALARM CO FOR A MINIMUM ALARM OPERA ALL FIRE ALARI SHALL BE RED POSITION), MAI A SUPERVISOR FAILURE OR RE SIGNAL. A CERTIFICATIO THE FIRE ALARI STROBES ARE ALL STROBES S
ALL BE COMPLETELY RIAL). CHES. THE INTEGRITY DT EXCEED 100 CASSEMBLIES SHALL ES. G MEMBERS. TO EXCEED 1/8 INCH OF THE OPENING. CUSH MOUNTED IN S, CEILINGS, OR DUNTED, UNLESS WRITTEN PERMISSION. CAL EQUIPMENT, D) LOCATION ETHER INDICATED CAL EXTERIOR CAL	<ol> <li>4.</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> <li>11.</li> </ol>	<ul> <li>WHERE A PHASE CONDUCTOR IS INCREASED IN SIZE DUE TO VOLTAGE DROP, THE EQUIPMENT GROUND CONDUCTOR SHALL BE INCREASED IN SIZE PROPORTIONATELY.</li> <li>PROVIDE A GROUND BUS BAR IN EACH ELECTRICAL ROOM AND TELECOMMUNICATIONS / IDF/ MDF ROOM FOR ALL NEW CONSTRUCTION AND NEW ROOMS IN EXISTING CONSTRUCTION, AND IN EXISTING CONSTRUCTION WHERE THERE IS NONE INSTALLED WITHIN AN EXISTING ROOM.</li> <li>LIGHT FIXTURES SUPPORTED BY CELING GRID SHALL BE SUPPORTED AS FOLLOWS: LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS SHALL HAVE 12-GAUGE HANGER WIRE CONNECTED FROM THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING 10 POUNDS OR MORE SHALL HAVE (2) 12-GAUGE HANGER WIRES ATTACHED AT OPPOSITE CORNECTED FROM THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING 10 POUNDS OR MORE SHALL HAVE (2) 12-GAUGE HANGER WIRES ATTACHED AT OPPOSITE CORNER SO THE LIGHT FIXTURE TO THE STRUCTURE ABOVE.</li> <li>COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES IN LAY-IN AND GYPBOARD CELINGS WITH ARCHITECTURAL REFLECTED CELING PLANS, AND WALL MOINTED EXTEROR AND INTERIOR LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION. WHERE THE QUANTITY OF LIGHTS DIFFERS BETWEEN THE ARCHITECTURAL RCP AND INTE BLETCRIC AND INTERIOR LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS PRIOR TO NOTSTALLATION. WHERE THE QUANTITY OF FILIGHTS DIFFERS BETWEEN THE ARCHITECTURAL RCP NON THE LECTRICAL LIGHTING PLANS, PROVIDE THE HIGHEST QUANTITY OF FATURES IN THE BID PRICE. THE DISOREPANCY IN QUANTITY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECTIVENGINES.</li> <li>OTHE LOCAL ROOM OR AREA LIGHTING CINCUTS AND LIGHTING CONTROL DEVICES, UNLESS OTHERWISE DIRECTED IN WRITING BY THE ARCHITECTIVENGINES.</li> <li>OTHEL LIGHT FIXTURES WITH THE ACCHITECTIVENGINES.</li> <li>VERIEY ACTUL CELLING SONTH CONTRUCTOR TYPE AS DEFINED ON THE ARCHITECTURAL DRAWINGS AND TURNISH ALL LIGHT FIXTURES WITH THE ACCHITECTIVENGINES ROTOR ON ORDERING LIGHT FIXTURES, ANY DISCREPANCIES THAT WOULD CAUSE THE RCESSED LIGHT FIXTURE</li></ul>	<ol> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> <li>11.</li> <li>12.</li> <li>13.</li> <li>14.</li> <li>15.</li> <li>16.</li> <li>17.</li> </ol>	ALL FIRE ALARI COMPATIBLE W ALL WIRING AN MINIMUM 300V 19 STRANDS. LOW VOLTAGE NFPA 72, AND A CONDUCTORS SURVIVABILITY APPLIANCE CIF NOTIFICATION UNTIL THE POIL MANUAL PULL S THAN 48" TO HA PROVIDE MINIE LAST DEVICE T PROVIDE FIRE WITHIN 5' OF AL ON ELECTRICA FIRE ALARM CO EQUIPMENT GF ARTICLE 760 OI PANEL NEUTRA LIFE SAFETY B SECONDARY B FIRE ALARM CO FOR A MINIMUM ALARM OPERA ALL FIRE ALARI SHALL BE RED POSITION), MAI A SUPERVISOR FAILURE OR RE SIGNAL. A CERTIFICATIO THE FIRE ALARI STROBES ARE ALL STROBES SHAL STROBES SHAL STROBES SHAL SPEAKER/STRO IN AREAS OPEN BACKBOXES.
ALL BE COMPLETELY RIAL). CHES. THE INTEGRITY DT EXCEED 100 CASSEMBLIES SHALL ES. G MEMBERS. TO EXCEED 1/8 INCH OF THE OPENING. CUSH MOUNTED IN S, CEILINGS, OR DUNTED, UNLESS WRITTEN PERMISSION. CAL EQUIPMENT, D) LOCATION ETHER INDICATED CAL EQUIPMENT, D) LOCATION ETHER INDICATED CAL EQUIPMENT, D) LOCATION ETHER INDICATED CAL EQUIPMENT, D) LOCATION ETHER INDICATED CONSTURE ALL SO THAT CONSTURE ALL EXTERIOR NOTED OTHERWISE. ISIDE FACE OF A DR SUMP PUMP, O THER AREAS AS FACILITIES SHALL BE O THER AREAS AS FACILITIES SHALL BE CONTHER AREAS AS FACILITIES SHALL BE	<ol> <li>4.</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> <li>11.</li> </ol>	<ul> <li>WHERE A PHASE CONDUCTOR IS INCREASED IN SIZE DUE TO VOLTAGE DROP, THE EQUIPMENT GROUND CONDUCTOR SHALL BE INCREASED IN SIZE PROPORTIONATELY.</li> <li>PROVIDE A GROUND BUS BAR IN EACH ELECTRICAL ROOM AND TELECOMMUNICATIONS / IDF/ MDF ROOM FOR ALL NEW CONSTRUCTION AND NEW ROOMS IN EXISTING CONSTRUCTION, AND IN EXISTING CONSTRUCTION WHERE THERE IS NONE INSTALLED WITHIN AN EXISTING ROOM.</li> <li>LIGHT FIXTURES SUPPORTED BY CELING GRID SHALL BE SUPPORTED AS FOLLOWS: LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS SHALL HAVE 12-GAUGE HANGER WIRE CONNECTED FROM THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING 10 POUNDS OR MORE SHALL HAVE (2) 12-GAUGE HANGER WIRES ATTACHED AT OPPOSITE CORNECTED FROM THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING 10 POUNDS OR MORE SHALL HAVE (2) 12-GAUGE HANGER WIRES ATTACHED AT OPPOSITE CORNER SO THE LIGHT FIXTURE TO THE STRUCTURE ABOVE.</li> <li>COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES IN LAY-IN AND GYPBOARD CELINGS WITH ARCHITECTURAL REFLECTED CELING PLANS, AND WALL MOINTED EXTEROR AND INTERIOR LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION. WHERE THE QUANTITY OF LIGHTS DIFFERS BETWEEN THE ARCHITECTURAL RCP AND INTE BLETCRIC AND INTERIOR LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS PRIOR TO NOTSTALLATION. WHERE THE QUANTITY OF FILIGHTS DIFFERS BETWEEN THE ARCHITECTURAL RCP NON THE LECTRICAL LIGHTING PLANS, PROVIDE THE HIGHEST QUANTITY OF FATURES IN THE BID PRICE. THE DISOREPANCY IN QUANTITY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECTIVENGINES.</li> <li>OTHE LOCAL ROOM OR AREA LIGHTING CINCUTS AND LIGHTING CONTROL DEVICES, UNLESS OTHERWISE DIRECTED IN WRITING BY THE ARCHITECTIVENGINES.</li> <li>OTHEL LIGHT FIXTURES WITH THE ACCHITECTIVENGINES.</li> <li>VERIEY ACTUL CELLING SONTH CONTRUCTOR TYPE AS DEFINED ON THE ARCHITECTURAL DRAWINGS AND TURNISH ALL LIGHT FIXTURES WITH THE ACCHITECTIVENGINES ROTOR ON ORDERING LIGHT FIXTURES, ANY DISCREPANCIES THAT WOULD CAUSE THE RCESSED LIGHT FIXTURE</li></ul>	<ol> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> <li>11.</li> <li>12.</li> <li>13.</li> <li>14.</li> <li>15.</li> <li>16.</li> <li>17.</li> <li>18.</li> </ol>	ALL FIRE ALARI COMPATIBLE W ALL WIRING AN MINIMUM 300V 19 STRANDS. LOW VOLTAGE NFPA 72, AND A CONDUCTORS SURVIVABILITY APPLIANCE CIF NOTIFICATION UNTIL THE POIL MANUAL PULL THAN 48" TO HA PROVIDE MINIE LAST DEVICE T PROVIDE FIRE WITHIN 5' OF AU ON ELECTRICA FIRE ALARM CO EQUIPMENT GF ARTICLE 760 OU PANEL NEUTRA LIFE SAFETY B SECONDARY B. FIRE ALARM CO FOR A MINIMUM ALARM OPERA ALL FIRE ALARM CO FOR A MINIMUM ALARM OPERA ALL FIRE ALARM SHALL BE RED POSITION), MAI A SUPERVISOR FAILURE OR RE SIGNAL. A CERTIFICATIO THE FIRE ALARI STROBES ARE ALL STROBES SHAI STROBES SHAI STROBES SHAI STROBES SHAI STROBES SHAI STROBES SHAI STROBES SHAI STROBES SHAI
ALL BE COMPLETELY RIAL). CHES. THE INTEGRITY DT EXCEED 100 CASSEMBLIES SHALL ES. G MEMBERS. TO EXCEED 1/8 INCH OF THE OPENING. CO EXCEED 1/8 INCH OF THE OPENING. CUSH MOUNTED IN S, CEILINGS, OR DUNTED, UNLESS WRITTEN PERMISSION. CAL EQUIPMENT, D) LOCATION ETHER INDICATED CAL EQUIPMENT, D) LOCATED CAL EQUIPMENT, D) LOCATED CAL EQUIPMENT, D) LOCATED CAL EQUIPMENT, D) LOCATION ETHER INDICATED CAL EQUIPMENT, D) LOCATION ETHER INDICATED CAL EQUIPMENT, D) LOCATED CAL EQUI	<ol> <li>4.</li> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> <li>11.</li> </ol>	<ul> <li>WHERE A PHASE CONDUCTOR IS INCREASED IN SIZE DUE TO VOLTAGE DROP, THE EQUIPMENT GROUND CONDUCTOR SHALL BE INCREASED IN SIZE PROPORTIONATELY.</li> <li>PROVIDE A GROUND BUS BAR IN EACH ELECTRICAL ROOM AND TELECOMMUNICATIONS / IDF/ MDF ROOM FOR ALL NEW CONSTRUCTION AND NEW ROOMS IN EXISTING CONSTRUCTION, AND IN EXISTING CONSTRUCTION WHERE THERE IS NONE INSTALLED WITHIN AN EXISTING ROOM.</li> <li>LIGHT FIXTURES SUPPORTED BY CELING GRID SHALL BE SUPPORTED AS FOLLOWS: LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS SHALL HAVE 12-GAUGE HANGER WIRE CONNECTED FROM THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING 10 POUNDS OR MORE SHALL HAVE (2) 12-GAUGE HANGER WIRES ATTACHED AT OPPOSITE CORNECTED FROM THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING 10 POUNDS OR MORE SHALL HAVE (2) 12-GAUGE HANGER WIRES ATTACHED AT OPPOSITE CORNER SO THE LIGHT FIXTURE TO THE STRUCTURE ABOVE.</li> <li>COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES IN LAY-IN AND GYPBOARD CELINGS WITH ARCHITECTURAL REFLECTED CELING PLANS, AND WALL MOINTED EXTEROR AND INTERIOR LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION. WHERE THE QUANTITY OF LIGHTS DIFFERS BETWEEN THE ARCHITECTURAL RCP AND INTE BLETCRIC AND INTERIOR LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS PRIOR TO NOTSTALLATION. WHERE THE QUANTITY OF FILIGHTS DIFFERS BETWEEN THE ARCHITECTURAL RCP NON THE LECTRICAL LIGHTING PLANS, PROVIDE THE HIGHEST QUANTITY OF FATURES IN THE BID PRICE. THE DISOREPANCY IN QUANTITY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECTIVENGINES.</li> <li>OTHE LOCAL ROOM OR AREA LIGHTING CINCUTS AND LIGHTING CONTROL DEVICES, UNLESS OTHERWISE DIRECTED IN WRITING BY THE ARCHITECTIVENGINES.</li> <li>OTHEL LIGHT FIXTURES WITH THE ACCHITECTIVENGINES.</li> <li>VERIEY ACTUL CELLING SONTH CONTRUCTOR TYPE AS DEFINED ON THE ARCHITECTURAL DRAWINGS AND TURNISH ALL LIGHT FIXTURES WITH THE ACCHITECTIVENGINES ROTOR ON ORDERING LIGHT FIXTURES, ANY DISCREPANCIES THAT WOULD CAUSE THE RCESSED LIGHT FIXTURE</li></ul>	<ol> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> <li>10.</li> <li>11.</li> <li>12.</li> <li>13.</li> <li>14.</li> <li>15.</li> <li>16.</li> <li>17.</li> <li>18.</li> <li>19.</li> </ol>	ALL FIRE ALARI COMPATIBLE W ALL WIRING AN MINIMUM 300V 19 STRANDS. LOW VOLTAGE NFPA 72, AND A CONDUCTORS SURVIVABILITY APPLIANCE CIF NOTIFICATION UNTIL THE POIL MANUAL PULLS THAN 48" TO HA PROVIDE MINII LAST DEVICE T PROVIDE FIRE WITHIN 5' OF AI ON ELECTRICA FIRE ALARM CO EQUIPMENT GF ARTICLE 760 OF PANEL NEUTRA LIFE SAFETY B SECONDARY B FIRE ALARM CO FOR A MINIMUM ALARM OPERA ALL FIRE ALARI SHALL BE RED POSITION), MAI A SUPERVISOR FAILURE OR RE SIGNAL. A CERTIFICATION THE FIRE ALARI STROBES SHAIL STROBES SHAIL STR

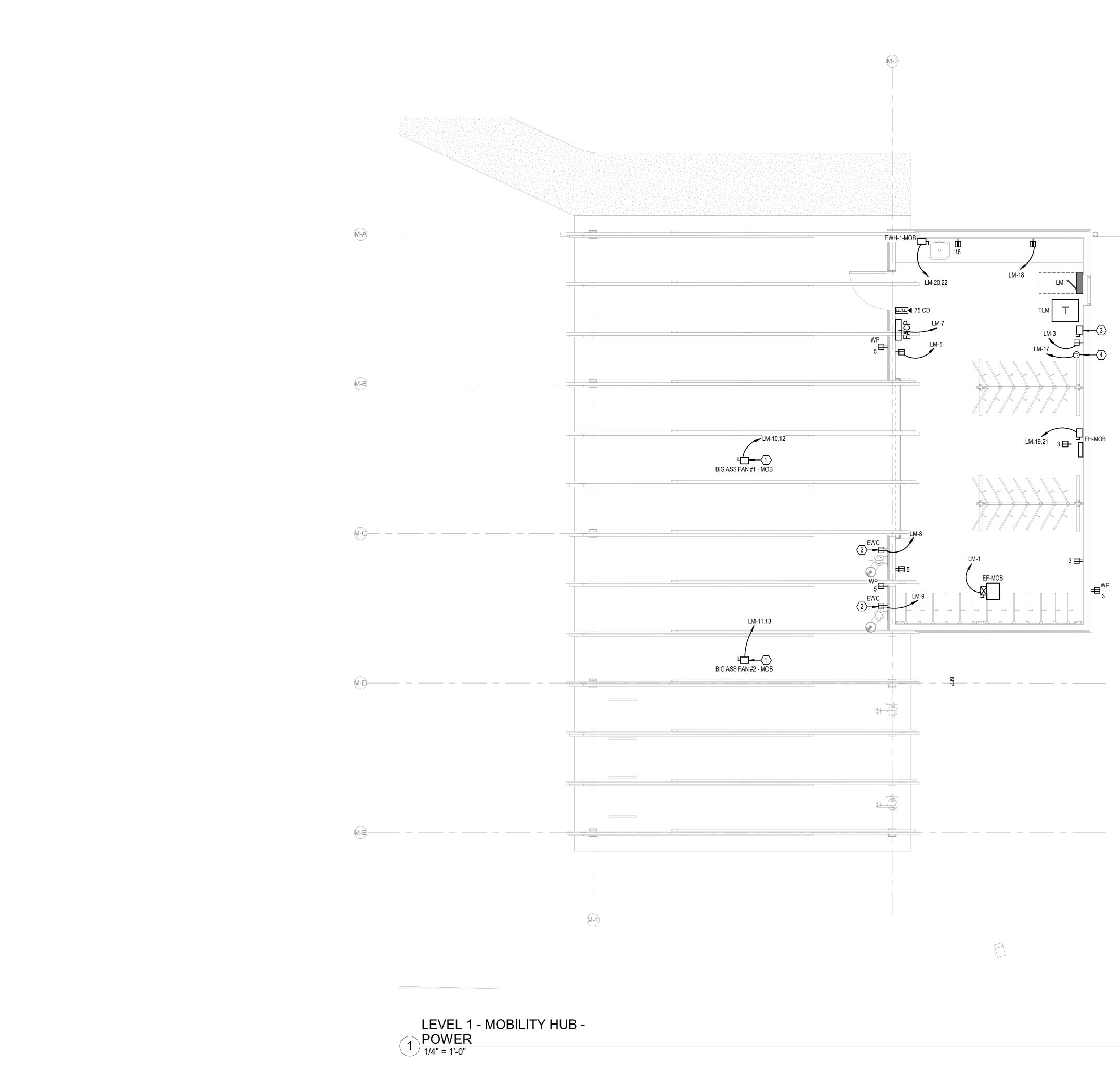
9. PROVIDE ALL PENETRATIONS THROUGH FLOORS, WALL, CEILINGS AND ROOFS WHERE

- 13. WHERE THERE IS NO EMERGENCY GENERATOR/ LIFE SAFETY DISTRIBUTION BRANCH AVAILABLE, PROVIDE INTEGRAL BATTERY PACKS, RATED FOR A MINIMUM OF 90 MINUTES, FOR FIXTURES SHOWN WITH SOLID SHADING AND/OR WITH "E" AFTER FIXTURE TAG, AND FOR ALL EXIT LIGHTS, OR UNLESS OTHERWISE NOTED.
- 14. REFER TO LIGHT FIXTURE SCHEDULE FOR LIGHT FIXTURE TYPES, DESCRIPTIONS, CATALOG NUMBERS AND ADDITIONAL INFORMATION PERTINENT TO THE LIGHT FIXTURE OR INSTALLATION THEREOF.
- 5. COORDINATE LIGHT FIXTURE TRIM TYPE AND FINISH COLOR WITH ARCHITECT PRIOR TO ORDERING.
- EACH LIGHTING CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL.
   PROVIDE AS PART OF BID PRICE, AN ADDITIVE ALTERNATE FOR THE SERVICES OF AN INDEPENDENT COMMISSIONING AGENT FOR THE LIGHTING SYSTEM FUNCTIONAL TESTING, INCLUDING ALL REQUIRED REPORTS. WHERE OCCUPANCY SENSORS, TIME SWITCHES, PROGRAMMABLE SCHEDULED LIGHTING CONTROLS, PHOTOSENSORS AND DAYLIGHTING CONTROLS ARE INSTALLED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:
- A. CONFIRM THAT THE PLACEMENT, SENSITIVITY AND TIME-OUT ADJUSTMENTS FOR OCCUPANCY SENSORS YIELD ACCEPTABLE PERFORMANCE.
  B. CONFIRM THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULED LIGHTING CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF.
  C. CONFIRM THAT THE DIACEMENT AND SENSITIVITY AD JUSTMENTS FOR PHOTOSENIC
- C. CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR PHOTOSENSOR CONTROLS REDUCE ELECTRIC LIGHT BASED ON AMOUNT OF USABLE DAYLIGHT IN THE SPACE AS SPECIFIED.
- MISCELLANEOUS CIRCUIT & INSTALLATION REQUIREMENTS:
- . THE INFRASTRUCTURE FOR THE ACCESS CONTROL/ CCTV OR SECURITY ELECTRONICS SYSTEM (CONDUITS, ELECTRICAL BOXES) SHALL BE INSTALLED BY DIVISION 26. THE ACCESS CONTROL/ CCTV OR SECURITY ELECTRONICS SYSTEM CONTRACTOR SHALL PROVIDE AND INSTALL THE WIRE AND CABLE FOR THE SYSTEM AND ALL REQUIRED EQUIPMENT. INSTALLATION OF THE CONDUITS AND ELECTRICAL BOXES SHALL BE UNDER THE DIRECT SUPERVISION OF THE ACCESS CONTROL/ CCTV SYSTEM CONTRACTOR. COORDINATE EXACT LOCATIONS OF DEVICES, RACEWAY LOCATIONS SIZES AND QUANTITY, CONDUIT STUB-UPS PRIOR TO ROUGH IN.
- THE INFRASTRUCTURE FOR THE VOICE/DATA TELECOMMUNICATIONS SYSTEM (CONDUITS, ELECTRICAL BOXES) SHALL BE INSTALLED BY DIVISION 26. THE TELECOMMUNICATIONS CONTRACTOR SHALL PROVIDE AND INSTALL THE WIRE AND CABLE FOR THE SYSTEM AND ALL REQUIRED EQUIPMENT AND COMPONENTS. INSTALLATION OF THE CONDUITS AND ELECTRICAL BOXES SHALL BE UNDER THE DIRECT SUPERVISION OF THE TELECOMMUNICATIONS CONTRACTOR. COORDINATE EXACT LOCATIONS OF DEVICES, RACEWAY LOCATIONS, SIZES AND QUANTITY, CONDUIT STUB-UPS PRIOR TO ROUGH IN.
- 3. PROVIDE 120V 20A 5-20R RECEPTACLE AT ALL FAN COIL UNITS FOR CONDENSATE PUMP POWER AND HOT WATER RECIRCULATING PUMPS, WHETHER SHOWN ON PLANS OR NOT. RECEPTACLE IS TO BE CONNECTED TO NEAREST 120V RECEPTACLE CIRCUIT.
- 4. PROVIDE 120V CONNECTION TO ALL MOTORORIZED DAMPERS INDICATED ON MECHANICAL PLANS, WHETHER SHOWN ON DIVISION 26 DRAWINGS OR NOT. FIRE/SMOKE DAMPER CIRCUITS ARE TO BE PROVIDED FROM EMERGENCY BRANCH PANEL (LEGALLY REQUIRED BRANCH IF AVAILABLE). MOTORIZED DAMPERS WITHIN THE SAME AREA CAN BE CIRCUITED TO THE SAME CIRCUIT (I.E., DEDICATED CIRCUIT IS NOT REQUIRED).
- 5. PROVIDE PHONE/DATA OUTLET WITH 1" RACEWAY, AND 120V RECEPTACLE ON DEDICATED CIRCUIT ADJACENT TO EACH AIR HANDLING UNIT FOR CONTROL POWER.
- PROVIDE 120V DEDICATED CIRCUIT TO EACH AIR HANDLING UNIT WITH SEPARATE CONNECTIONS TO UNIT UV LIGHT, UNIT LIGHTS, UNIT RECEPTACLE, AND BI-POLAR IONIZATION FILTER WHERE PROVIDED. COORDINATE WITH DIVISION 23 SHOP DRAWINGS.
- ACCESS CONTROLLED DOOR POWER NOTE: ENSURE ALL 120V CONVENIENCE RECEPTACLE CIRCUITS UTILIZED FOR ACCESS CONTROL POWER SUPPLY ARE UNDER NORMAL OPERATION ALWAYS ENERGIZED AND NOT CONTROLLED THROUGH PLUG LOAD CONTROL / LIGHTING CONTROLS / EPO STATIONS. THIS IS APPLICABLE TO ALL ACCESS CONTROL NOTES THROUGHOUT THE ELECTRICAL SET.
- ENSURE ALL SHUNT TRIP RELAYS ARE CONTINUOUS DUTY RATED OR CONTAIN A SAFETY MECHANISM THAT ENSURES RELAYS GET DE-ENERGIZED AFTER ACTUATING TO PREVENT OVERHEATING.

## FIRE ALARM SYSTEM NOTES

- 1. ALL FIRE ALARM EQUIPMENT IS TO BE NEW, UL LISTED FOR FIRE SERVICE, AND SHALL BE COMPATIBLE WITH THE SYSTEM BEING USED. ALL WIRING AND CONDUIT IS TO CONFORM TO NEC ARTICLE 760. WIRING SHALL BE ULLISTED.
- 2. MINIMUM 300V TYPE FPLP PLENUM RATED SOLID COPPER OR STANDARD COPPER WITH MAXIMUM 19 STRANDS.
- 3. LOW VOLTAGE CONDUCTORS: PROVIDE CONDUCTORS IN ACCORDANCE WITH NFPA 70 AND NFPA 72, AND AS RECOMMENDED BY THE FIRE ALARM SYSTEM MANUFACTURER. CONDUCTORS SHALL BE COPPER, MINIMUM NO. 14 AWG, TWISTED SHIELDED PAIR.
- 4. SURVIVABILITY: A 1-HOUR RATED CABLE ASSEMBLY SHALL BE PROVIDED FOR NOTIFICATION APPLIANCE CIRCUITS AND ANY OTHER CIRCUITS NECESSARY FOR THE OPERATION OF THE NOTIFICATION APPLIANCE CIRCUITS FROM THE POINT AT WHICH THEY EXIT THE CONTROL UNIT UNTIL THE POINT THAT THEY ENTER THE NOTIFICATION ZONE THAT THEY SERVE.
- 5. MANUAL PULL STATIONS ARE TO BE INSTALLED AT 42" TO BOTTOM OF DEVICE AND NO HIGHER THAN 48" TO HANDLE ABOVE FINISHED FLOOR.
- PROVIDE MINIMUM 3/4" CONDUIT AND WIRING BETWEEN EACH FIRE ALARM DEVICE AND FROM LAST DEVICE TO FACP UNLESS OTHERWISE NOTED.
- 7. PROVIDE FIRE ALARM RELAY AND DUCT DETECTOR CONNECTED TO FIRE ALARM SYSTEM, WITHIN 5' OF ALL DUCT PENETRATIONS THROUGH FIRE/SMOKE WALLS, WHETHER INDICATED ON ELECTRICAL OR MECHANICAL PLANS OR NOT.
- FIRE ALARM CONTROL PANEL IS TO BE PROVIDED WITH DEDICATED 120V CIRCUIT WITH EQUIPMENT GROUND CONNECTION PER MANUFACTURER'S RECOMMENDATIONS AND ARTICLE 760 OF THE NEC. PROVIDE MINIMUM #12 AWG FOR GROUND CONNECTION. NOTE: PANEL NEUTRAL OR CONDUIT GROUND IS NOT ACCEPTABLE. 120V CIRCUIT SHALL BE FROM LIFE SAFETY BRANCH WHERE AVAILABLE.
- 9. SECONDARY BACK-UP POWER SHALL BE PROVIDED BY INTEGRAL BATTERIES WITHIN THE FIRE ALARM CONTROL PANEL TO SUPPLY POWER TO THE SYSTEM UNDER QUIESCENT LOAD FOR A MINIMUM OF 24 HOURS, AND THEN BE CAPABLE OF AN ADDITIONAL 15 MINUTES ALARM OPERATION AT MAXIMUM CONNECTED LOAD.
- 10. ALL FIRE ALARM POWER CIRCUITS SHALL HAVE A DEDICATED 120V 20A BREAKER THAT SHALL BE RED IN COLOR AND MECHANICALLY PROTECTED (LOCKABLE IN THE "ON" POSITION), MARKED AS "FIRE ALARM CIRCUIT".
- 11. A SUPERVISORY SIGNAL SHALL BE ANNUNCIATED UPON ANY TAMPER SWITCH ACTIVATION. FAILURE OR REMOVAL OF ANY DETECTION OR MANUAL DEVICE SHALL ACTIVATE A TROUBLE SIGNAL
- A CERTIFICATION OF COMPLETION AND UL LISTING SHALL BE ISSUED AND INSTALLED ON THE FIRE ALARM CONTROL PANEL, MINIMUM CANDELA RATING OF STROBES IS 75; "110" ADJACENT TO DEVICE INDICATES 110
   CANDELA RATING. PROVIDE SYNCHRONIZATION OF STROBES IN ALL ADJACENT AREAS WHERE STROBES ARE VISIBLE TO EACH OTHER.
- 14. ALL STROBES SHALL ACTIVATE UPON INITIATION OF THE GENERAL ALARM.
- 15. ALL STROBES SHALL BE INSTALLED PER ADA MOUNTING HEIGHT REQUIREMENTS. WALL MOUNTED STROBES SHALL BE INSTALLED SO THAT THE BOTTOM OF THE STROBE LENS IS 80" AFF.
- STROBES SHALL BE INSTALLED WITHIN 15' OF THE ENDS OF ALL CORRIDORS.
   SPEAKER/STROBES, HEAT DETECTORS OR MANUAL PULL STATIONS INSTALLED OUTSIDE OR IN AREAS OPEN TO THE EXTERIOR SHALL BE WEATHERPROOF DEVICES IN APPROVED
- SMOKE DETECTORS SHALL BE PHOTO-ELECTRIC ADDRESSABLE TYPE.
- 19. SMOKE DETECTORS ARE TO BE INSTALLED PER NFPA 72. WALL MOUNTED SMOKE DETECTORS SHALL BE MOUNTED 4"-12" BELOW THE CEILING AND AWAY FROM CORNERS.
- ALL SMOKE DETECTORS SHALL BE INSTALLED A MINIMUM OF 36" AWAY FROM ANY SUPPLY OR RETURN AIR VENTS OR DIFFUSERS.
   PLICT DETECTORS CHARLES EXAMINED TO THE AMOUNT OF 36" AWAY FROM ANY SUPPLY
- 21. DUCT DETECTORS SHALL BE PHOTO-ELECTRIC ADDRESSABLE TYPE, AND RATED FOR VELOCITIES UP TO 5000 FT/MIN.



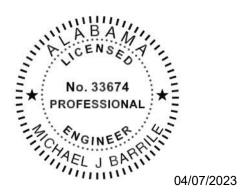




13099 S. Cleveland Avenue, Suite 500 Fort Myers, FL 33907 P 239.275.4240 www.tlc-engineers.com

COA 15

© Copyright 2019 TLC Engineering Solutions, Inc. TLC Project No.: 719179 THINK. LISTEN. CREATE.

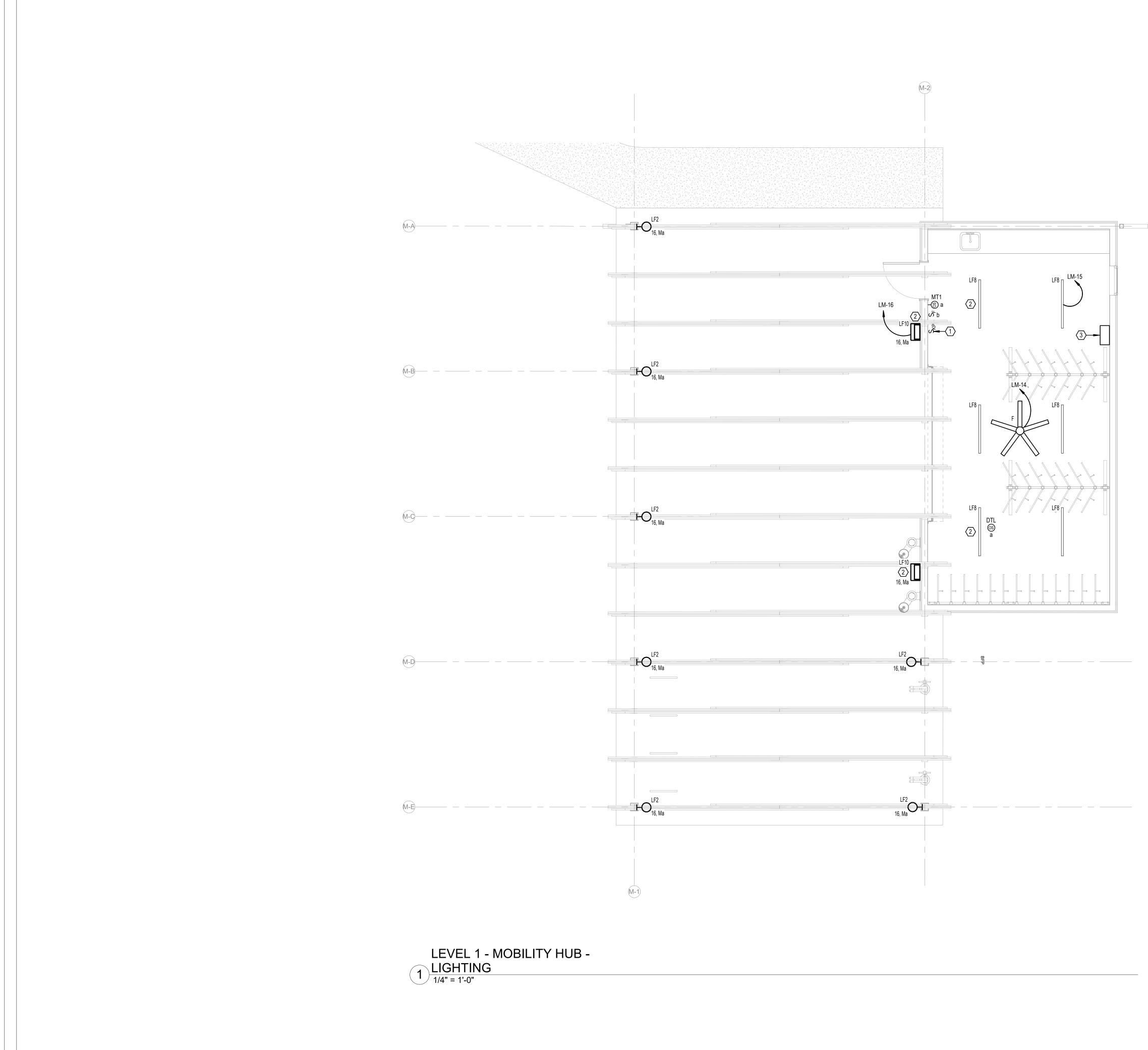


This item has been electronically signed and sealed by Michael Barrile, PE on the date adjacent to this seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

### **ELECTRICAL KEY NOTES** KEYNOTE TEXT

#	KEYNOTE TEXT
1	PROPOSED LOCATION OF A "BIG ASS" FAN. COORDINATE FINAL PLACEMENT WITH ARCHITECT AND EXACT REQUIREMENTS WITH SUBMITTED SHOP DRAWINGS PRIOR TO INSTALLATION.
2	PROVIDE A 120V, 20A DEDICATED GFCI-TYPE RECEPTACLE AT THIS LOCATION FOR AN ELECTRIC WATER COOLER. COORDINATE EXACT PLACEMENT WITH THE ARCHITECT PRIOR TO ROUGH-IN.
3	PROVIDE A 480V, 3-PHASE, 60A RATED PRIMARY SIDE LOCAL DISCONNECT SWITCH FOR THIS TRANSFORMER.
4	PROVIDE 120V, 20A POWER CONNECTION POINT AT THIS LOCATION FOR THE EMERGENCY LIGHTING INVERTER SYSTEM.



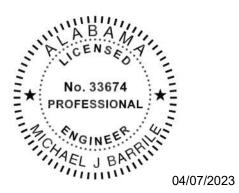




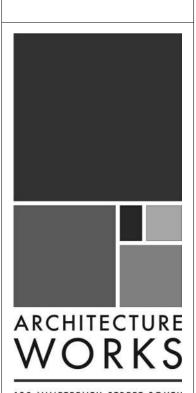
13099 S. Cleveland Avenue, Suite 500 Fort Myers, FL 33907 P 239.275.4240 www.tlc-engineers.com

COA 15

© Copyright 2019 TLC Engineering Solutions, Inc. TLC Project No.: 719179 THINK. LISTEN. CREATE.



This item has been electronically signed and sealed by Michael Barrile, PE on the date adjacent to this seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



130 NINETEENTH STREET SOUTH BIRMINGHAM, ALABAMA 35233 TELEPHONE: 205.320.0880 www.architectureworks.com

COPYRIGHT - ALL RIGHTS RESERVED 2020 THIS DRAWING IS THE PROPERTY OF ARCHITECTUREWORKS, LLP, AND IS NOT TO BE REPRODUCED, COPIED OR ALTERED IN WHOLE OR IN PART. THIS DRAWING IS NOT TO BE USED FOR ANY PURPOSE WITHOUT THE APPROVAL OF ARCHITECTUREWORKS, LLP AND IS TO BE RETURNED TO ARCHITECTUREWORKS, LLP UPON REQUEST.

WATERSHED Building Sustainability

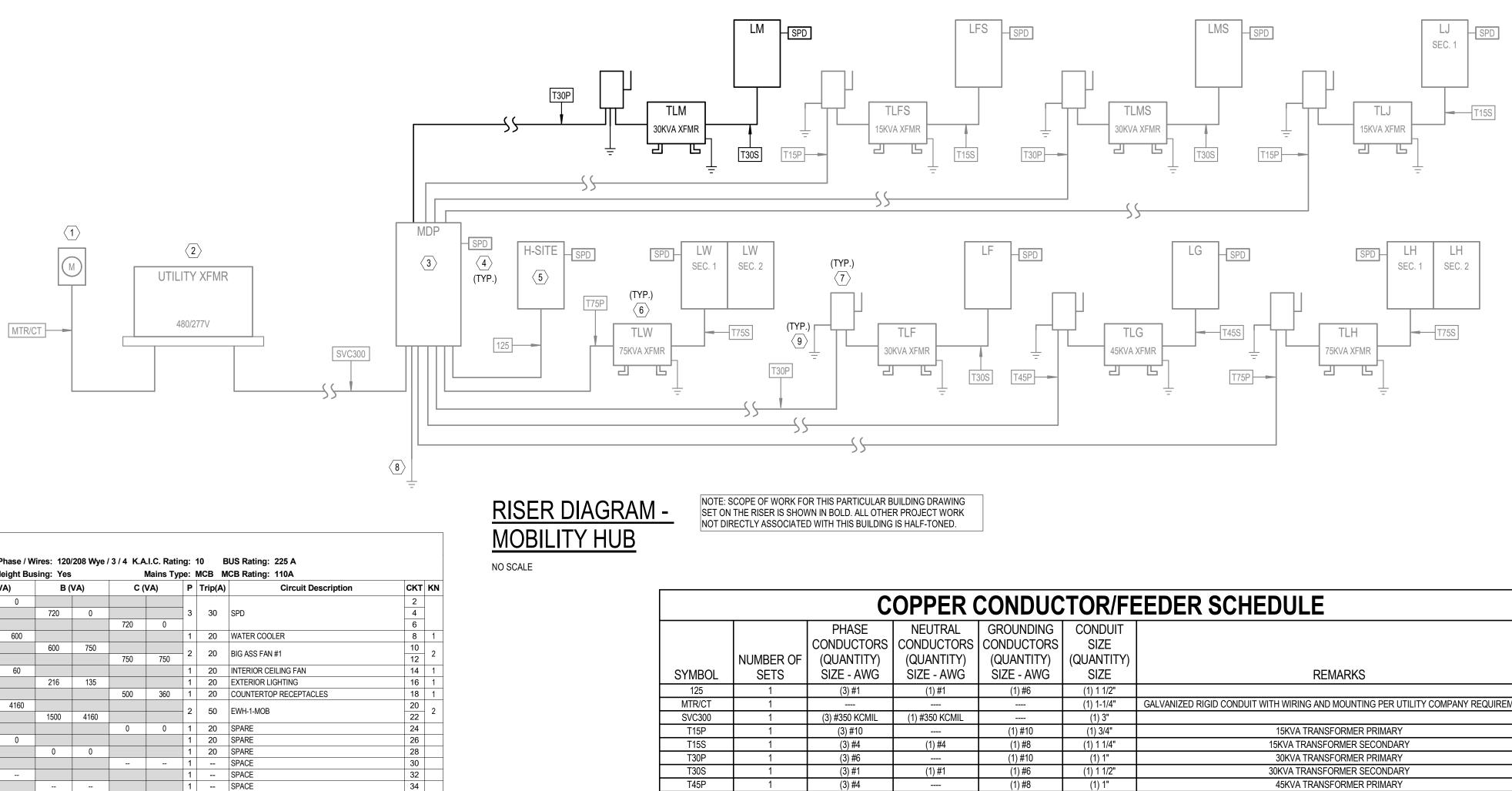
302 Magnolia Avenue Fairhope, AL 36532 p 251.929.0514

# & SUSTAINABILITY PACKAGEE3E CENTER MAWNFIELD SHED P/ GULF SHORES, AL S T S FOR ECOTOURISM & COA GULF ° S JOB 19-028.000 PROJECT STATUS CONFORMANCE SET DATE MARCH 24, 2023 MOBILITY HUB PLAN SHEET EM200

## ELECTRICAL KEY NOTES

- KEYNOTE TEXT # PROPOSED LOCATION OF LOCAL LIGHTING CONTROL SYSTEM KEYPAD. REFER TO THE LIGHTING CONTROL DETAILS SHEET FOR MORE INFORMATION.
- THIS FIXTURE SHALL BE CONNECTED TO THE EMERGENCY LIGHTING INVERTER. PROVIDE MICRO-RELAY AS REQUIRED FOR TRANSFER TO EMERGENCY UPON DETECTED LOSS OF
- UTILITY POWER. 3 PROVIDE A 350W, 120V RATED EMERGENCY LIGHTING INVERTER WITH BATTERIES (UL 924) AT THIS LOCATION. BASIS-OF-DESIGN: MYERS EMERGENCY POWER SYSTEMS, MODEL #LV-2-R-1-B2003-B-RT.

#
1
2
3
4
5 6
6
7
7 8 9
Q



T45S

T75P

T75S

1

1

1

(3) #1/0

(3) #2

(3) #4/0

(1) #1/0

-----

(1) #4/0

•		cation: BIKE STORAGE M101 Mounting:		E			Wires: 120	-			-		BUS Rating
Supply From:         TLM         Enclosure:         T           KN         CKT         Circuit Description         Image: Content of the second				D		Height E VA)	Busing: Yes	; (VA)	Mains Type: C (VA) P			: MCB N P Trip(A)	ICB Rating
2	1	EF-MOB-2	<b>Trip(A)</b> 20	г 1	80	0		(• <b>~</b> )	0(	• <b>~</b> )	<u> </u>	111P(~)	/
2	3	GENERAL RECEPTACLES	20	1	00	0	720	0			3	30	SPD
1	5	GENERAL RECEPTACLES	20	1			120	0	720	0	ľ		51.0
1	7	FIRE ALARM	20	1	400	600			120	0	1	20	WATER C
1	9	WATER COOLER	20	1	100		600	750			<u> </u>		
	11		-					100	750	750	2	20	BIG ASS F
2	13	BIG ASS FAN #2	20	2	750	60					1	20	INTERIOR
1	15	INTERIOR LIGHTING	20	1			216	135			1	20	EXTERIOF
1	17	EM LIGHTING INVERTER	20	1					500	360	1	20	COUNTER
•	19				1500	4160							
2	21	EH-MOB	20	2			1500	4160			2	50	EWH-1-MC
	23	SPARE	20	1					0	0	1	20	SPARE
	25	SPARE	20	1	0	0					1	20	SPARE
	27	SPARE	20	1			0	0			1	20	SPARE
	29	SPACE		1							1		SPACE
	31	SPACE		1							1		SPACE
	33	SPACE		1							1		SPACE
	35	SPACE		1							1		SPACE
	37	SPACE		1							1		SPACE
	39	SPACE		1							1		SPACE
	41	SPACE		1							1		SPACE
		Connected Phase	Load (K	VA)	7.5	550	8.	038	3.0	080			_
		Connected Pha				647		.711	25.	.667	_		
Loa	d Cl	assification	Coni	nec	ted Loa	d [	Demand F	actor	Dema	nd Load	I		
Equip	oment			130	20 VA		100.00%		13020 VA				
HEA	TING			300	00 VA		100.00%	)	3000 VA			Total Connect	
Lighti	ing			38	0 VA		100.00%	)	3	80 VA		To	otal Deman
Othe	r			40	0 VA		100.00%	)	4	00 VA		] Te	otal Demar
Rece	ptacle			180	00 VA		100.00%	)	18	800 VA		1	
HVA	с С			80	) VA		125.00%	)	1	00 VA			

1. (2)#12 AWG CU THWN & (1)#12 AWG CU (EG) IN 3/4" CONDUIT. 2. REFER TO ELECTRICAL EQUIP. COORD. SCHEDULE

	ELECTRICAL EQUIPMENT COORDINATION SCHEDULE - MOBILITY HUB															
								CIRCUIT		STARTER			DIS	CONNECT		
TAG	HP	LOAD	FLA (AMPS)	VOLTAGE	PHASE	CONDUIT/WIRE (AWG)	PANEL	NUMBER	NEMA SIZE	ENCLOS. TYPE	FURN. BY (DIV.)	SWITCH SIZE	NO. OF POLES	ENCLOS. TYPE	FURN. BY (DIV.)	COMMENTS
BIG ASS FAN #1 - MOB		1500 VA	10A	208 V	1	3/4" CONDUIT WITH 2#12 AND 1#12 GROUND	LM	10,12				30A	2	NEMA 3R	26	
BIG ASS FAN #2 - MOB		1500 VA	10A	208 V	1	3/4" CONDUIT WITH 2#12 AND 1#12 GROUND	LM	11,13				30A	2	NEMA 3R	26	
EF-MOB	1/10	80 VA	0.4A	120 V	1	3/4" CONDUIT WITH 2#12 AND 1#12 GROUND	LM	1	00	NEMA 3R	26	20A	2	NEMA 3R	26	
EH-MOB		3000 VA	14.4A	208 V	1	3/4" CONDUIT WITH 2#12 AND 1#12 GROUND	LM	19,21				30A	2	NEMA 1	26	
EWH-1-MOB		8320 VA	40A	208 V	1	1" CONDUIT WITH 3#6 AND 1#8 GROUND	LM	20,22				60A	2	NEMA 1	26	

#### ELECTRICAL RISER KEY NOTES **KEYED NOTE TEXT** PROVIDE ALUMINUM CT METER ENCLOSURE PER UTILITY REQUIREMENTS. 480/277V, 3-PHASE, PAD-MOUNTED UTILITY TRANSFORMER. REFER TO ELECTRICAL SITE PLANS FOR PLACEMENT. INSTALL PER BALDWIN EMC REQUIREMENTS. 480/277V, 3-PHASE, 4-WIRE MAIN DISTRIBUTION PANEL. REFER TO PANEL SCHEDULE AND SPECIFICATIONS FOR MORE INFORMATION. 4 PROVIDE A SURGE PROTECTION DEVICE (SPD) AT EVERY PANEL LOCATION PER PLANS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO THE SPECIFICATIONS FOR MORE INFORMATION. 5 480/277V, 3-PHASE, 4-WIRE BRANCH PANELBOARD. REFER TO THE PANEL SCHEDULE AND SPECIFICATIONS FOR MORE INFORMATION. 480/277V TO 208/120V, DRY-TYPE, STEP-DOWN TRANSFORMER. REFER TO THE TRANSFORMER SCHEDULE THIS SHEET, AND THE SPECIFCATIONS FOR MORE INFORMATION. PROVIDE A PRIMARY SIDE DISCONNECTING MEANS FOR THIS TRANSFORMER PER THE PLANS AND SPECIFICATIONS. PROVIDE A MAIN SYSTEM GROUND PER NEC ARTICLE 250 AND THE SPECIFICATIONS. PROVIDE A GROUNDING POINT PER NEC ARTICLE 250 WHERE THE ELECTRICAL SYSTEM ENTERS THE BUILDING.

TRANSFORMER SCHEDULE (COPPER WINDINGS)												
TRANSFORMER NAME	KVA RATING	PHASE	PRIMARY VOLTAGE (D=DELTA,Y= WYE)	SECONDARY VOLTAGE (D=DELTA,Y= WYE)	GROUNDING ELECTRODE CONDUCTOR							
TLF	30	3	480D	120/208Y	#6							
TLG	45	3	480D	120/208Y	#6							
TLH	75	3	480D	120/208Y	#2							
TLW	75	3	480D	120/208Y	#2							
TLM	30	3	480D	120/208Y	#6							
TLFS	15	3	480D	120/208Y	#8							
TLMS	30	3	480D	120/208Y	#6							
TLJ	15	3	480D	120/208Y	#8							

Panel Totals Connected Load (KVA): 18.667 otal Demand Load (KVA): 18.687

36

40

42

otal Demand Current (A): 52

	ELECTRICAL LOAD SUMMARY													
PANEL NAME	SUPPLIED FROM	AIC RATING	DEMAND (VA)	DEMAND (A)	VOLTAGE	PHASE	NO. OF SPACES/POLES	MAINS TYPE	ENCLOSURE TYPE					
			0 VA	Not Computed		Not Computed								
H-SITE	MDP	42	825 VA	1 A	480/277V	3	42	MLO	TYPE 1					
LF	TLF	10	11608 VA	32 A	208/120V	3	42	MCB	TYPE 1					
LFS	TLFS	10	3708 VA	10 A	208/120V	3	42	MCB	TYPE 1					
LG	TLG	10	24656 VA	68 A	208/120V	3	42	MCB	TYPE 1					
LH	TLH	10	58979 VA	164 A	208/120V	3	84	MCB	TYPE 1					
LJ	TLJ	10	2274 VA	6 A	208/120V	3	42	MCB	TYPE 1					
LM	TLM	10	18687 VA	52 A	208/120V	3	42	MCB	TYPE 1					
LMS	TLMS	10	32048 VA	89 A	208/120V	3	42	MCB	TYPE 1					
LW	TLW	22	65891 VA	183 A	208/120V	3	84	MCB	TYPE 1					
MDP		65	199467 VA	240 A	480/277V	3		MCB	TYPE 1					

(1) 2"

(1) 1 1/4"

(1) 2 1/2"

(1) #6

(1) #6

(1) #2

DER SCHEDULE
REMARKS
ALVANIZED RIGID CONDUIT WITH WIRING AND MOUNTING PER UTILITY COMPANY REQUIREMENTS
15KVA TRANSFORMER PRIMARY
15KVA TRANSFORMER SECONDARY
30KVA TRANSFORMER PRIMARY
30KVA TRANSFORMER SECONDARY
45KVA TRANSFORMER PRIMARY
45KVA TRANSFORMER SECONDARY
75KVA TRANSFORMER PRIMARY
75KVA TRANSFORMER SECONDARY



13099 S. Cleveland Avenue, Suite 500 Fort Myers, FL 33907 P 239.275.4240 www.tlc-engineers.com

COA 15 © Copyright 2019 TLC Engineering Solutions, Inc. TLC Project No.: 719179 THINK. LISTEN. CREATE.



This item has been electronically signed and sealed by Michael Barrile, PE on the date adjacent to this seal. Printed copies of this document are not considered signed and sealed and the signature

must be verified on any electronic copies.

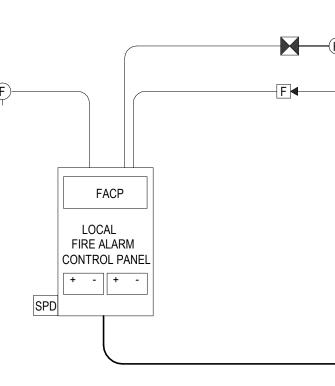


Building Sustainability

302 Magnolia Avenue Fairhope, AL 36532 p 251.929.0514

SUSTAINABILITY CENTER ACKAGEE3E Ц Š SHED F SHOPED S TOURISM O MAWFIELD  $\bigcirc$ . ОО LL Ш GUL FOR Š JOB 19-028.000 PROJECT STATUS CONFORMANCE SET DATE MARCH 24, 2023 ELECTRICAL RISER DIAGRAM & SCHEDULES EM300

B TYPICAL NOTIFICATION APPLIANCES F



MOBILITY HUB

### FIRE ALARM SYSTEM SEQUENCE OF OPERATION No Scale

TYPE OF SYSTEM: - FULLY ADDRESSABLE FIRE ALARM SYSTEM AND STANDBY BATTERY MONITORED BY CENTRAL STATION - 24 HOURS OF STANDBY, 5 MINUTES OF ALARM USED FOR BATTERY CALCULATIONS - VOICE EVACUATION WITH PRE-RECORDED DIGITAL MESSAGE AND MANUAL ANNOUNCEMENT VIA MICROPHONE TYPE OF CIRCUITS: - SIGNALING LINE CIRCUIT (SLC) = CLASS B, SURVIVABILITY LEVEL 0 - NOTIFICATION APPLIANCE CIRCUIT (NAC) = CLASS B, SURVIVABILITY LEVEL 0 WIRING METHOD: - "FPLR" CABLE IN CONDUIT. - WET LOCATION LISTED CABLE FOR UNDERGROUND, SLAB, AND UNCONDITIONED SPACE CONDUIT. GENERAL ALARM SEQUENCE: - ACTIVATION OF AN ALARM INITIATING DEVICE WILL CAUSE THE NOTIFICATION DEVICES (SPEAKERS AND STROBES) TO ACTIVATE THROUGHOUT THE BUILDINGS. ALL ALARM CONDITIONS WILL BE ANNUNCIATED AT THE FIRE ALARM CONTROL PANEL (FACP) AND REMOTE ANNUNCIATOR AND WILL BE TRANSMITTED TO THE OWNER-SELECTED OFFSITE MONITORING COMPANY. - SUPERVISORY CONDITIONS WILL BE ANNUNCIATED AT THE FACP AND REMOTE ANNUNCIATOR. A SUPERVISORY CONDITION WILL BE TRANSMITTED BY THE FACP TO THE OWNER-SELECTED OFFSITE MONITORING COMPANY. - TROUBLE CONDITIONS WILL BE ANNUNCIATED AT THE FACP AND REMOTE ANNUNCIATOR. A TROUBLE CONDITION WILL BE TRANSMITTED BY THE FACP TO THE OWNER-SELECTED OFFSITE MONITORING COMPANY. - SPRINKLER FLOW SWITCH : THE FIRE PROTECTION SPRINKLER SYSTEM MAIN FLOW SWITCH SHALL BE CONNECTED AS AN ALARM INITIATING DEVICE AND SHALL BE ANNUNCIATED SEPARATELY. FIRE PROTECTION SPRINKLER SYSTEM ZONE FLOW SWITCHES SHALL BE CONNECTED AS AN AUTOMATIC INITIATING DEVICE AND EACH SWITCH SHALL BE SEPARATELY ANNUNCIATED. - SPRINKLER FLOW SWITCH SHALL TRANSMIT A SEPARATE ALARM SIGNAL FROM OTHER ALARM CONDITIONS. - SPRINKLER SYSTEM TAMPER SWITCH : TAMPER SWITCHES CONNECTED TO THE VALVES OF THE FIRE PROTECTION SYSTEM SHALL BE ANNUNCIATED AS SUPERVISORY CONDITION. - ALL SIGNALS SHALL BE ANNUNCIATED AT THE ALARM SILENCE: - AUDIBLE NOTIFICATION DEVICES MAY BE SILENCED. - VISUAL DEVICES WILL REMAIN ON UNTIL THE SYSTEM IS RESET. INITIATING DEVICE OPERATIONS: - PULL STATIONS WILL CAUSE A GENERAL ALARM. - SPRINKLER FLOW SWITCHES WILL CAUSE A GENERAL ALARM. - DUCT DETECTORS WILL CAUSE A SUPERVISORY CONDITION. - ANY TAMPER SWITCH WILL CAUSE A SUPERVISORY CONDITION. - SMOKE/HEAT DETECTORS WILL CAUSE A GENERAL ALARM AFTER AN ALARM VERIFICATION PROCESS. AUXILIARY CONTROLS: - AIR HANDLING UNITS CONTROLLED BY THE FIRE ALARM SYSTEM WILL SHUTDOWN THROUGHOUT THE BUILDING ON AN ALARM CONDITION. UPON SILENCING FIRE ALARM SYSTEM HVAC SYSTEM SHALL

- 3/4" CONDUIT (TYP. ALL DEVICES)  $H \rightarrow H \rightarrow F$  Typical initiating devices  $\langle A \rangle$ F (F) TYPICAL NOTIFICATION APPLIANCES (B)

## FIRE ALARM SYSTEM WIRE SCHEDULE A SIGNALLING LINE CIRCUIT: 2 CONDUCTOR #18 AWG, SOLID, SHIELDED, TWISTED PAIRS. TYPE "FPLR" CABLE. CLASS B / SURVIVABILITY LEVEL 0 B NOTIFICATION APPLIANCE CIRCUIT: 2 CONDUCTOR #14 AWG, SOLID, SHIELDED CABLE. TYPE "FPLR" CABLE. CLASS B / SURVIVABILITY LEVEL 0

- C INITIATING DEVICE CIRCUIT (IDC): 2 CONDUCTOR #18 AWG, SOLID, SHIELDED TWISTED PAIRS. TYPE "FPLR" CABLE.
- D SIGNALLING LINE CIRCUIT: 2 CONDUCTOR #18 AWG, SOLID, SHIELDED, TWISTED PAIRS. TYPE "FPLR" CABLE. CLASS A / SURVIVABILITY LEVEL 3. (INTER-BUILDING)

### NOTE:

- \* FIRE ALARM SYSTEM WIRING SHALL BE POWER LIMITED. \* ALL WIRING BELOW GRADE TO BE LISTED FOR WET LOCATIONS.
- \* REFER TO POWER AND SYSTEMS PLANS FOR DEVICE LOCATION AND QUANITY.
- \* ALL STROBES SHALL BE 75cd MINIMUM UNLESS OTHERWISE NOTED ON THE FLOOR PLANS.

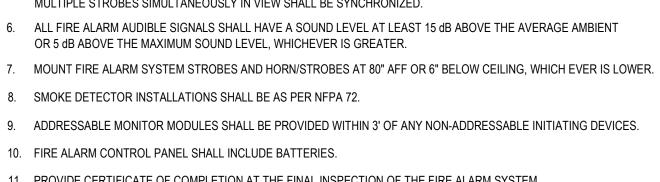
## FIRE ALARM NOTES :

- 1. ALL EQUIPMENT AND DEVICES SHALL BE U.L. LISTED. 2. ALL WIRING SHALL CONFORM TO NFPA 72 AND NEC ARTICLE 760 USING FPLR COPPER CABLING IN CONDUIT. 3. COLOR CODING AND PROPER LABELING SHALL APPLY TO ALL SYSTEMS WIRING. 4. ROUTE FIRE ALARM SYSTEM CONDUIT ACCORDING TO FIRE ALARM CONTRACTOR SHOP DRAWINGS. COORDINATE WITH THE ELECTRICAL CONTRACTOR. 5. ALL FIRE ALARM VISUAL SIGNALS IN OPEN AREA SHALL HAVE A THREE PLUS TEMPORAL PATTERN. MULTIPLE STROBES SIMULTANEOUSLY IN VIEW SHALL BE SYNCHRONIZED. OR 5 dB ABOVE THE MAXIMUM SOUND LEVEL, WHICHEVER IS GREATER. 8. SMOKE DETECTOR INSTALLATIONS SHALL BE AS PER NFPA 72. 10. FIRE ALARM CONTROL PANEL SHALL INCLUDE BATTERIES. 11. PROVIDE CERTIFICATE OF COMPLETION AT THE FINAL INSPECTION OF THE FIRE ALARM SYSTEM. TO THE AUTHORITY HAVING JURISDICTION AT THE TIME OF APPLICATION FOR BUILDING PERMIT EQUIPMENT INSTALLED FOR THIS PROJECT, KEEP AT THE FIRE ALARM CONTROL PANEL.
- 14. THE FIRE ALARM SYSTEM SHALL BE MONITORED BY AN OFFSITE CENTRAL STATION.

DEDICATED DIGITAL CONNECTION FOR THIRD PARTY REMOTE MAIN NOTIFICATION FIRE ALARM CONTROL PANEL UDACT

# FIRE ALARM RISER DIAGRAM

AUTOMATICALLY RETURN TO NORMAL OPERATION STATUS.



12. FIRE ALARM CONTRACTOR SHALL PROVIDE A DETAILED SET OF SHOP DRAWINGS (INCLUDING DEVICE CUT-SHEETS), A COMPLETE POINT TO POINT WIRING DIAGRAM, COMPLETE BATTERY CALCULATIONS, & VOLTAGE DROP CALCULATIONS

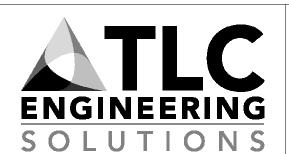
13. PROVIDE THE OWNER WITH A COMPLETE FIRE ALARM SYSTEM OPERATING AND INSTALLATION MANUAL COVERING ALL SYSTEM

15. PROVIDE A SURGE PROTECTION DEVICE (SPD) AT ALL POINTS WHERE CLASS A WIRING LEAVES AND ENTERS ANY BUILDING.

FACP

- +

WELCOME HUB



13099 S. Cleveland Avenue, Suite 500 Fort Myers, FL 33907 P 239.275.4240 www.tlc-engineers.com

COA 15

© Copyright 2019 TLC Engineering Solutions, Inc. THINK. LISTEN. CREATE.



-3 NGINEER

HAEL J BAY

(11111)

This item has been electronically signed and

sealed by Michael Barrile, PE on the date

adjacent to this seal.

Printed copies of this document are not

must be verified on any electronic copies.

considered signed and sealed and the signature

04/07/2023

TLC Project No.: 719179



BIRMINGHAM, ALABAMA 35233 TELEPHONE: 205.320.0880 www.architectureworks.com

COPYRIGHT - ALL RIGHTS RESERVED 2020 THIS DRAWING IS THE PROPERTY OF ARCHITECTUREWORKS, LLP, AND IS NOT TO BE REPRODUCED, COPIED OR ALTERED IN WHOLE OR IN PART. THIS DRAWING IS NOT TO BE USED FOR ANY PURPOSE WITHOUT THE APPROVAL OF ARCHITECTUREWORKS, LLP AND IS TO BE RETURNED TO ARCHITECTUREWORKS, LLP UPON REQUEST.

WATERSHED Building Sustainability

302 Magnolia Avenue Fairhope, AL 36532 p 251.929.0514

R

Ш

Ζ

C

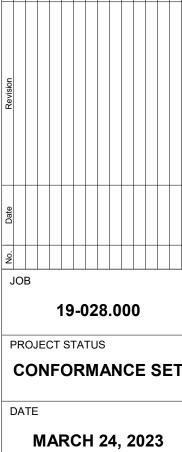
S

O

 $\bigcirc$ 

C

STAINABILITY Ш ACKAGEE  $\square$ S J ₹ 8 SHED F Shopeg TOURISM MAWFIELD O O O Ш FOR



FIRE ALARM RISER, DETAILS, AND NOTES SHEET



1. LIGHTING CONTROL SYSTEM SHALL BE DIGITAL AND CONSIST OF A MASTER LCP WITH UP TO 32 INDIVIDUAL RELAYS, SLAVE LCPS WITH UP TO 32 INDIVIDUAL RELAYS IN EACH PANEL, A MICRO LCP WITH UP TO 4 INDIVIDUAL RELAYS. WHICH CAN BE SWITCHABLE OR 0-10VDC DIMMABLE. DIGITAL SWITCHES AND DIGITAL INTERFACE CARDS. ALL SYSTEM COMPONENTS SHALL CONNECT IN A "DAISY CHAIN" STYLE CONFIGURATION AND BE CONTROLLED VIA CATEGORY 5 PATCH CABLE WITH RJ45 CONNECTORS, PROVIDING REAL-TIME TWO WAY COMMUNICATION WITH EACH SYSTEM COMPONENT. ANALOG SYSTEMS ARE NOT ACCEPTABLE. ALL CABLES SUPPLIED BY CONTRACTOR.

2. RELAY PANELS SHALL BE PRE-WIRED, PRE-ASSEMBLED, PROGRAMMED TO OWNER REQUIREMENTS, AND LISTED TO UL 936 (EMERGENCY LIGHTING RELAYS INTERMIXED). PANELS SHALL BE PROVIDED WITH DUAL VOLTAGE POWER SUPPLY AND 16 GAGE BARRIERS TO SEPARATE HIGH AND LOW VOLTAGE POWER.

3. STANDARD RELAYS SHALL HAVE NORMALLY CLOSED (NC) CONTACTS RATED FOR 120/277V 20A TUNGSTEN OR BALLAST. STANDARD RELAYS SHALL BE ZERO-CROSS TYPE, NO EXCEPTIONS. OPTIONAL 600V, 200 POLE RELAY, NO OR NC, AND 347 SINGLE POLE RELAY SHALL BE AVAILABLE.

4. RELAY PANEL ELECTRONICS SHALL PROVIDE CURRENT VISUAL STATUS AND CONTROL OF EACH RELAY OR ZONE. ALL SYSTEM CONTROL ELECTRONICS SHALL STORE PROGRAMMING IN A NON-VOLATILE MEMORY AND PROVIDE 10 YEAR BATTERY BACK UP FOR TIME OF DAY.

5. LIGHTING CONTROL PANEL SHALL CONSIST OF A MASTER AND SLAVE PANEL(S) CONTROLLED BY A 32-CHANNEL DIGITAL TIME CLOCK (DTC) THAT CONTROLS AND PROGRAMS THE ENTIRE LIGHTING CONTROL SYSTEM. THE DTC SHALL SUPPLY ALL TIME FUNCTIONS AND ACCEPT OTHER INPUTS. THE DTC SHALL ACCEPT CONTROL LOCALLY USING BUILT IN BUTTON PROMPTS AND USE OF AN 8 LINE 21-LETTER DISPLAY, FROM A COMPUTER, MODEM, ETHERNET OR INTERNET. ALL COMMANDS SHALL BE IN PLAIN ENGLISH. HELP PAGES SHALL DISPLAY ON THE DTC SCREEN.

6. ALL SWITCHES SHALL COMMUNICATE VIA RS485, CAT 5 PATCH CABLE WITH RJ45 CONNECTORS. CONTACT CLOSURE STYLE SWITCHES ARE NOT ACCEPTABLE. ANY SWITCH BUTTON FUNCTION SHALL BE ABLE TO BE CHANGED LOCALLY (AT THE DTC OR A PC) OR REMOTELY, VIA MODEM ETHERNET OR INTERNET. REFER TO SINGLE LINE DRAWING FOR WIRING DETAILS. SWITCHES WHICH CANNOT BE PROGRAMMED REMOTELY SHALL NOT BE ACCEPTABLE.

7. PHOTOCELL, EXTERIOR (PCO) OR INTERNET (PCI), SHALL PROVIDE READOUT ON THE DTC SCREEN IN NUMBER VALUES ANALOGOUS TO FOOT CANDLES. EACH PHOTOCELL SHALL PROVIDE A MINIMUM OF 14 TRIGGER POINTS. EACH TRIGGER CAN BE PROGRAMMED TO CONTROL ANY RELAY OR ZONE. EACH TRIGGER SHALL BE SET THROUGH DTC , LOCALLY OR REMOTELY. PHOTOCELLS THAT REQUIRE THE USE OF SET SCREWS OR MANUAL ADJUSTMENTS AT THE PHOTOCELL CONTROL CARD SHALL NOT BE ACCEPTABLE.

8. STANDARD LIGHTING CONTROL SYSTEM SOFTWARE, PRE-INSTALLED INTO THE DTC, SHALL CONSIST OF AND USE STANDARD GRAPHICAL MANAGEMENT SOFTWARE (GMS) PAGES. GMS SHALL PROVIDE VIA LOCAL OR REMOTE PC A VISUAL REPRESENTATION OF EACH DEVICE ON THE BUS, SHOW REAL TIME STATUS AND THE ABILITY TO CHANGE THE STATUS OF ANY INDIVIDUAL DEVICE, RELAY OR ZONE. OPTIONAL SOFTWARE THAT ACCEPTS JOB SPECIFIC GRAPHICS SHALL BE AVAILABLE. NO EXCEPTIONS.

UPGRADED AND MONITORED REMOTELY. NO EXCEPTIONS.

10. SHOP DRAWINGS: SUBMIT DIMENSIONED DRAWINGS OF LIGHTING CONTROL SYSTEM AND ACCESSORIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, RELAY PANELS, SWITCHES, DTC, PHOTOCELLS AND OTHER INTERFACES. DRAWINGS SHALL INDICATE EXACT LOCATION AND PROGRAMMING OF EACH DEVICE. INDICATE ALL TIME SCHEDULES AND SWITCH BUTTON ENGRAVING.

11. LIGHTING CONTROL SYSTEM SHALL ACCOMMODATE DAYLIGHT HARVESTING THROUGH DAYLIGHTING ROUGHOUT THE BUILDINGS.

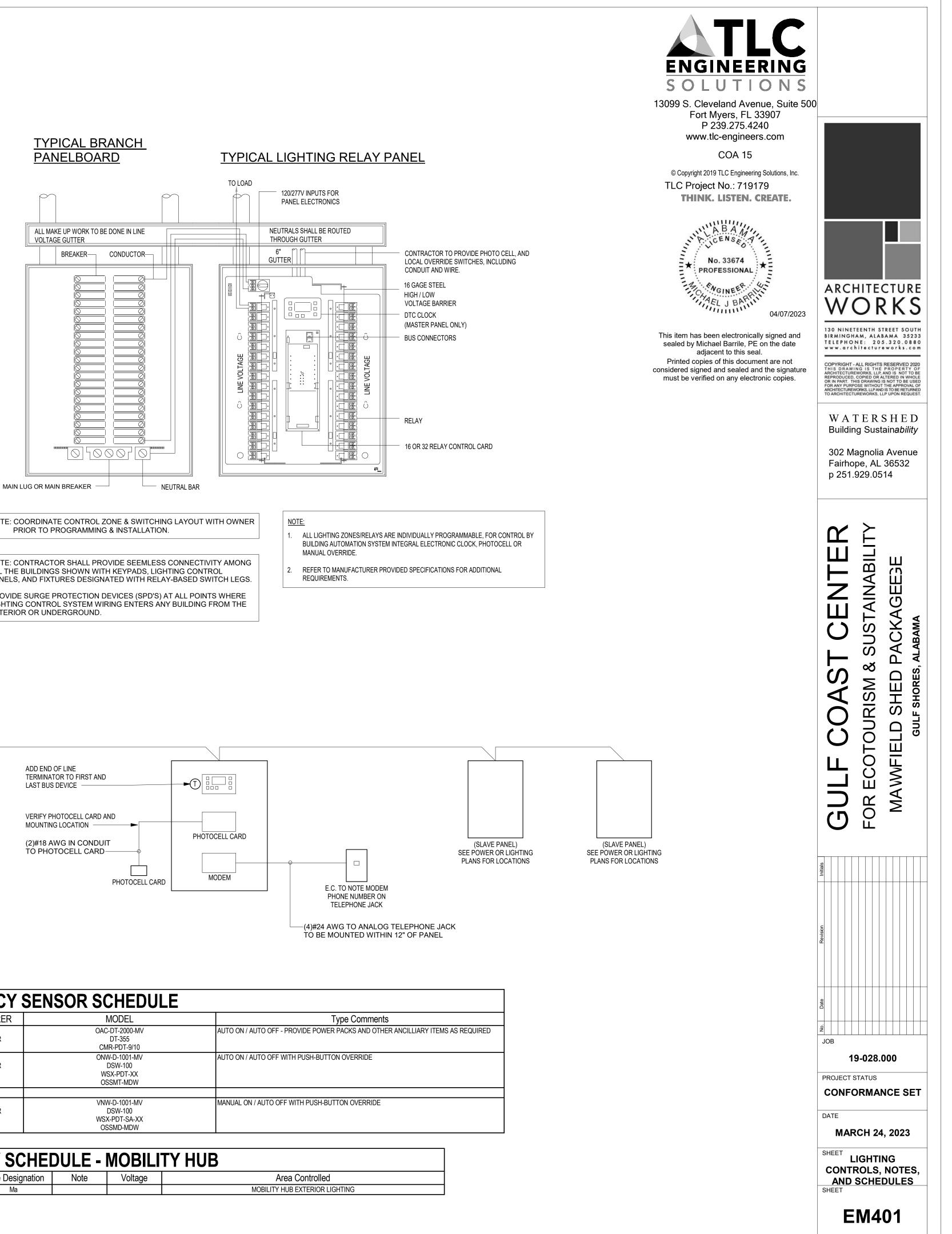
	WELCOME HUB	SENSORS PLACED THE
	LOW VOLTAGE SW REFER TO PLANS LOCATION	
MAINT.	FIELD	MOBILITY
SHED	SHED	HUB
LOW VOLTAGE SWITCH	LOW VOLTAGE SWITCH	LOW VOLTAGE SWITCH
REFER TO PLANS FOR	REFER TO PLANS FOR	REFER TO PLANS FOR
LOCATION	LOCATION	LOCATION

TYPE	
DTL	CEILING MOUNTED, DUAL TECHNOLOGY, LIN
MT1	WALL-MOUNTED, DUAL TECHNOLOGY, LINE
Standard 2	
VL1	WALL-MOUNTED, LINE VOLTAGE, DUAL TECH

Relay Number	Panel	Ci
1	LM	

#### LIGHTING CONTROL SYSTEM SPECIFICATIONS

9. TELEPHONE FACTORY DIAL-UP SUPPORT SHALL BE AVAILABLE AT NO ADDITIONAL COST TO THE EC OR OWNER BOTH DURING AND AFTER THE 3 YEAR WARRANTY PERIOD. FACTORY TO PREPROGRAM THE LIGHTING CONTROL SYSTEM PER PLANS AND APPROVED SUBMITTAL. THE LIGHTING CONTROL MANUFACTURER, AT NO ADDED COST, SHALL PROVIDE ADDITIONAL PROGRAMMING VIA MODEM AS REQUIRED BY THE EC OR OWNER FOR THE OPERATIONAL LIFE OF THE SYSTEM. MANUFACTURER WARRANTS THE DTC SOFTWARE CAN BE

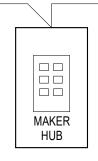


NOTE: COORDINATE CONTROL ZONE & SWITCHING LAYOUT WITH OWNER PRIOR TO PROGRAMMING & INSTALLATION.

NOTE: CONTRACTOR SHALL PROVIDE SEEMLESS CONNECTIVITY AMONG PANELS, AND FIXTURES DESIGNATED WITH RELAY-BASED SWITCH LEGS. PROVIDE SURGE PROTECTION DEVICES (SPD'S) AT ALL POINTS WHERE LIGHTING CONTROL SYSTEM WIRING ENTERS ANY BUILDING FROM THE

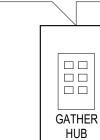
<u>N01</u>	<u>[E:</u>
1.	ALL LIGHTING ZONES/R BUILDING AUTOMATION MANUAL OVERRIDE.
2.	REFER TO MANUFACTU REQUIREMENTS.

ALL THE BUILDINGS SHOWN WITH KEYPADS, LIGHTING CONTROL EXTERIOR OR UNDERGROUND.

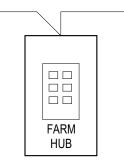


LOW VOLTAGE SWITCH

REFER TO PLANS FOR LOCATION

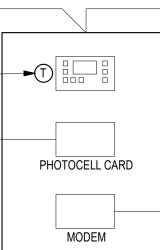


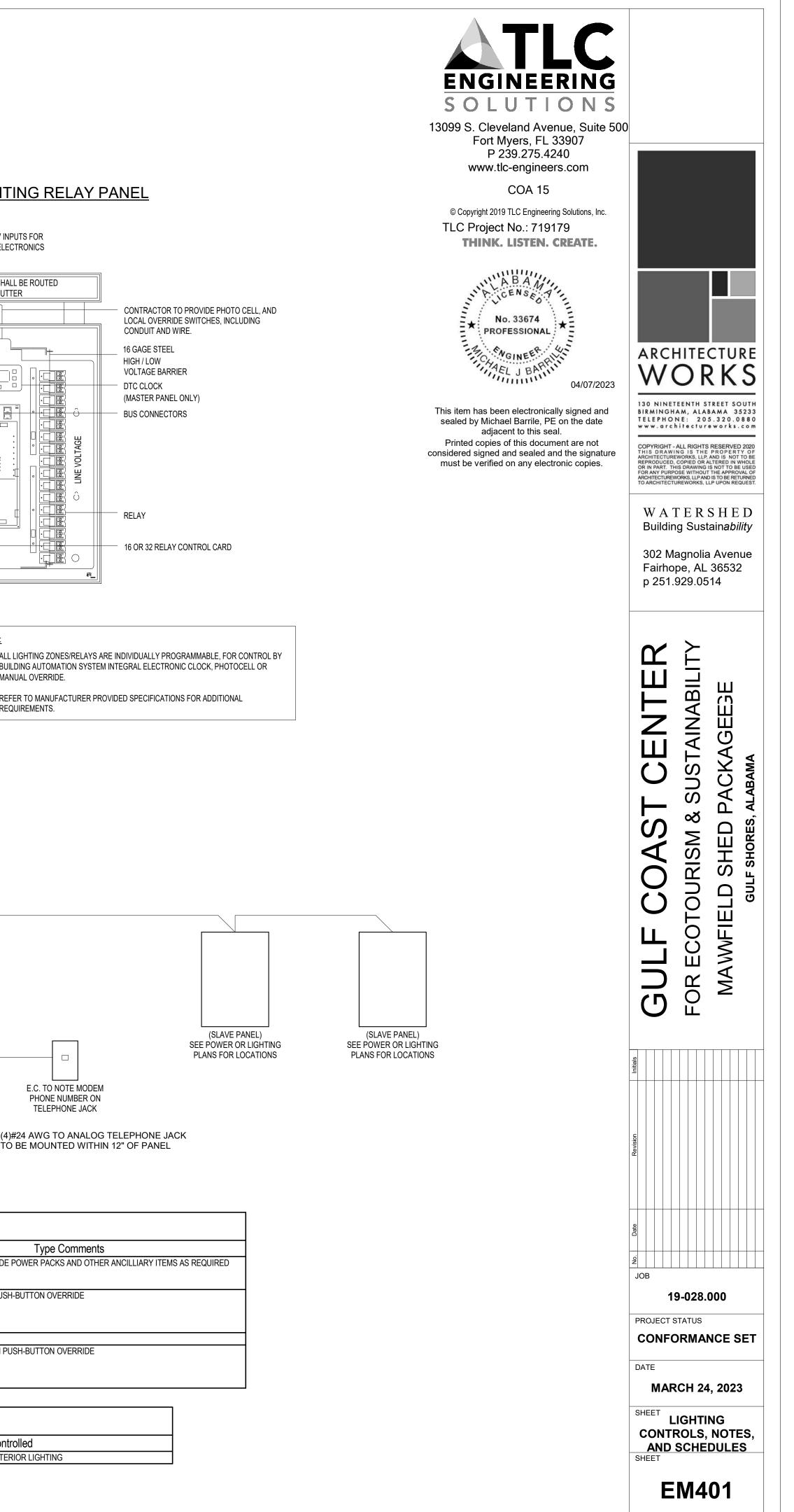
LOW VOLTAGE SWITCH REFER TO PLANS FOR LOCATION



LOW VOLTAGE SWITCH REFER TO PLANS FOR LOCATION

TERMINATOR TO FIRST AND
LAST BUS DEVICE



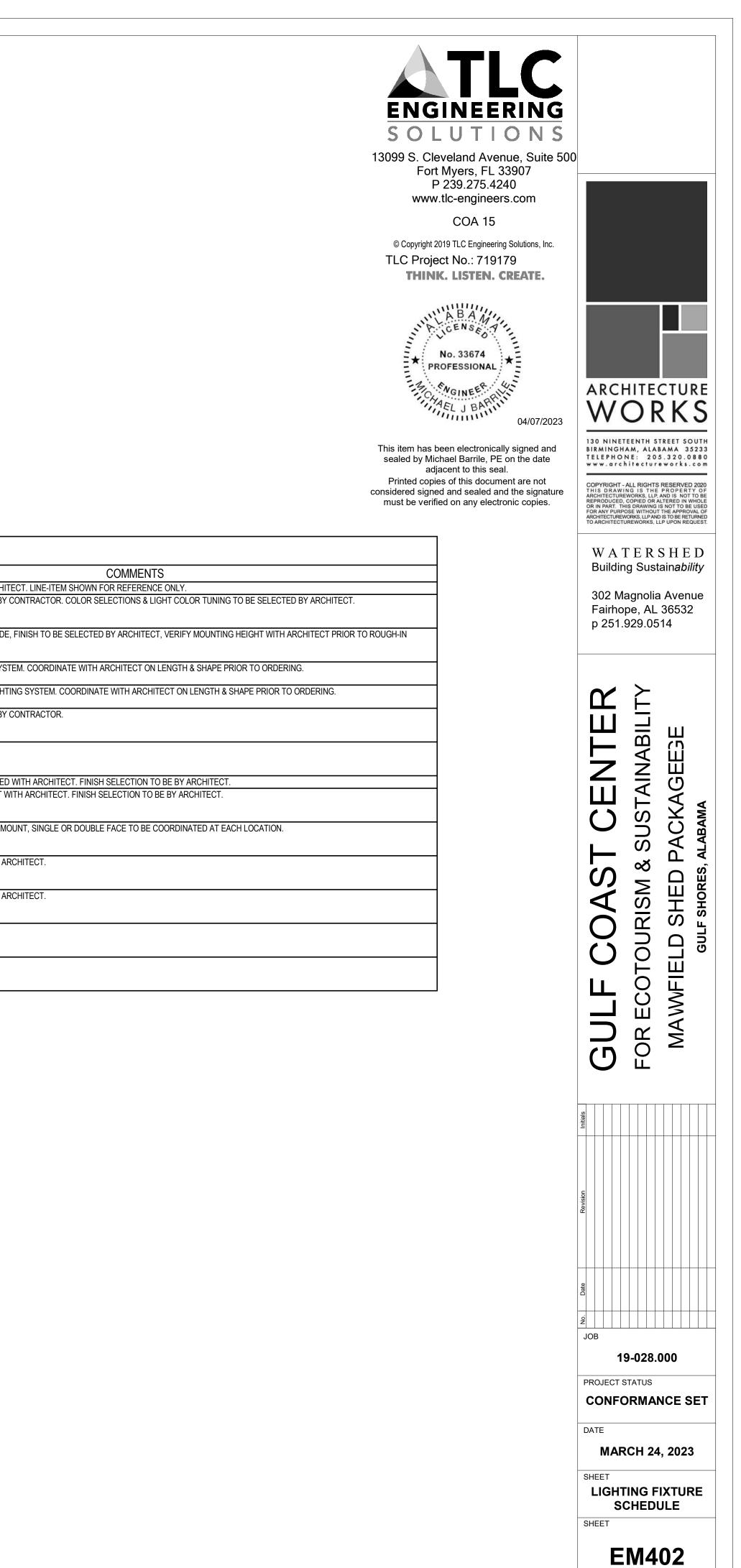


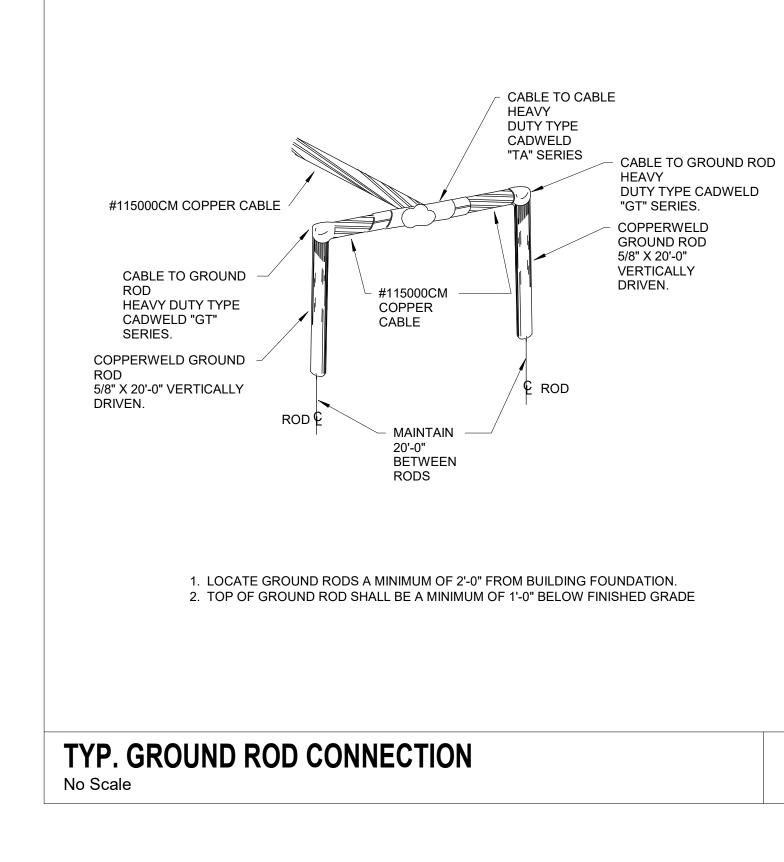
OCCUPANCY / VACANCY SENSOR SCHEDULE					
DESCRIPTION	MANUFACTURER	MODEL	Type Comm		
NE VOLTAGE OCCUPANCY SENSOR	GREENGATE WATTSTOPPER ACUITY	OAC-DT-2000-MV DT-355 CMR-PDT-9/10	AUTO ON / AUTO OFF - PROVIDE POWER PACKS AND		
VOLTAGE OCCUPANCY SENSOR WITH SINGLE LEVEL CONTROL	GREENGATE WATTSTOPPER ACUITY LEVITON	ONW-D-1001-MV DSW-100 WSX-PDT-XX OSSMT-MDW	AUTO ON / AUTO OFF WITH PUSH-BUTTON OVERRIDE		
HNOLOGY VACANCY SENSOR WITH SINGLE LEVEL CONTROL	GREENGATE WATTSTOPPER ACUITY LEVITON	VNW-D-1001-MV DSW-100 WSX-PDT-SA-XX OSSMD-MDW	MANUAL ON / AUTO OFF WITH PUSH-BUTTON OVERRI		

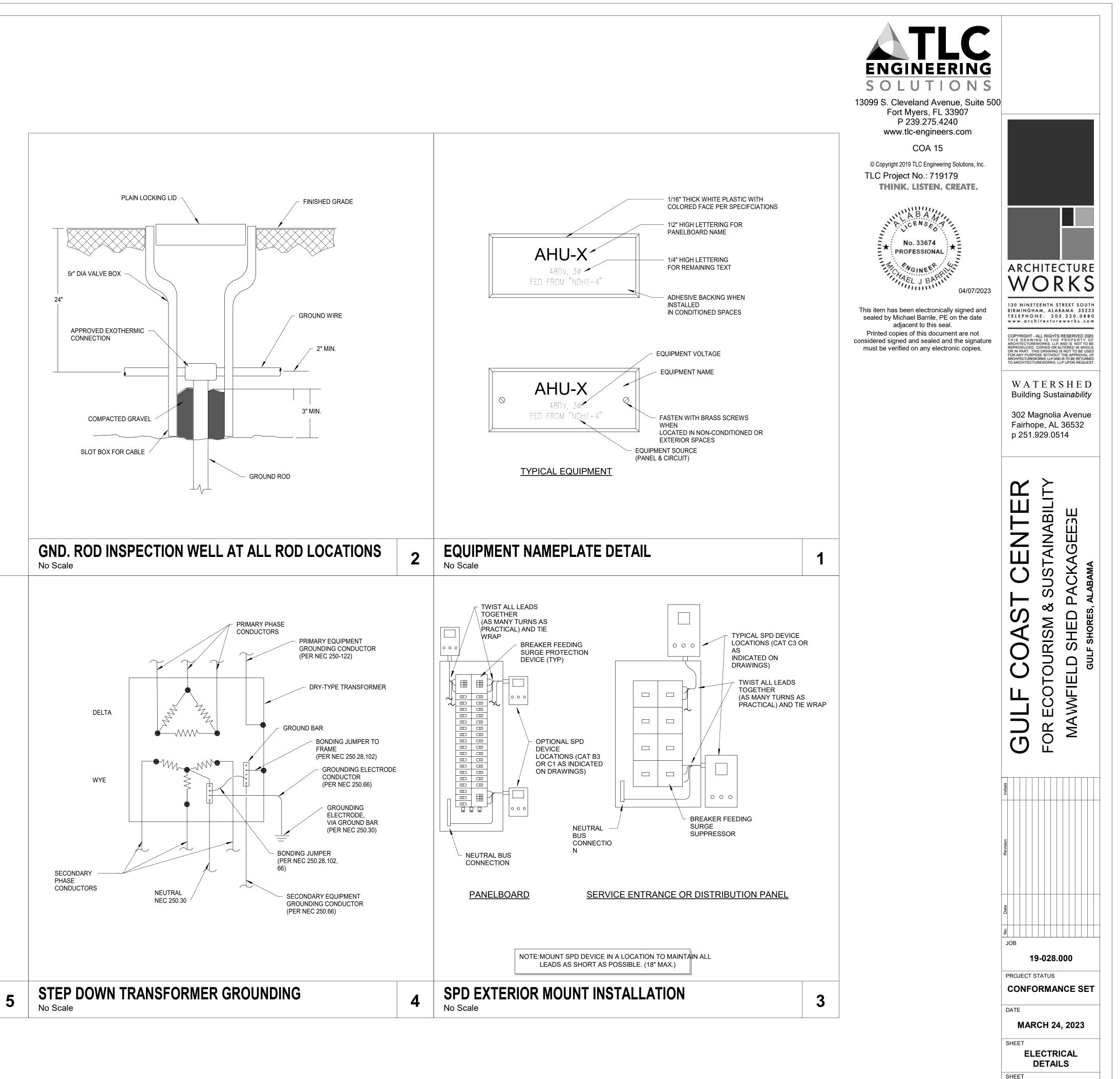
LIGHTING CONTROL RELAY SCHEDULE - MOBILITY HUB						TY HUB
ircuit Number	Switch Type	Controlled By	Zone Designation	Note	Voltage	Area Controlled
16	RELAY	ASTRONOMICAL TIME-CLOCK WITH KEYPAD OVERRIDE	Ma			MOBILITY HUB EXTERIOR LIGHTING
					•	

		LIGH	TING FIXTURE SCHEDULE		
TYPE	DESCRIPTION	MANUFACTURER	MODEL	TYPE	
F	ARCHITECTURAL GRADE CEILING FAN	BY ARCHITECT	SELECTIONS BY ARCHITECT	LED	CEILING FANS TO BE SELECTED BY THE ARCHITEC
LF1	4" LED TUNABLE WHITE DOWNLIGHT	ALPHABET PORTFOLIO BOLD	NU4-RD-TW-13LM-2765-95-HE45-UNV-MOUNTING-COLOR LD4B15DE010W2N2765 EU4B1020W2N902765 4LBXXX CRF4-NIC-T-U-S-0-TW-F-FINISH-FINISH-11-D	LED	MOUNTING SELECTION TO BE DETERMINED BY CC
LF2	DECORATIVE LED WALL CYLINDER FIXTURE	BEGA LIGMAN FC LIGHTING	24034 K35 UMV-30002-20W-N-W35 FCC400-11-WM-UNV-935-10L-FINISH-50-LD	LED	MOUNT FIXTURE 10'-0" ABOVE FINISHED GRADE, F
LF3	RECESSED "MOVE IT" DECROATIVE LED TRACK LIGHTING	XAL LITELINE	MOVE1.2-RTL-BL-48V-010V-ST-XXFT KL-I-T-XX-C-X-R-BK	LED	DECORATIVE RECESSED TRACK LIGHTING SYSTE
LF4	SURFACE-MOUNT "MOVE IT" DECORATIVE DIRECT/INDIRECT LED TRACK LIGHTING	XAL LITELINE	MOVE1.1-PDT-BL-BW-35K-C90-48V-010V-0500LF-ST-XXFT KL-I-F/S-XX-C-XX-X-BK/KL-SPOT-BK	LED	DECORATIVE SURFACE/PENDANT TRACK LIGHTIN
LF5	RECESSED 2" X 4' LED LINEAR FIXTURE	FINELITE NEORAY MARK ARCHITECTURAL	HP-2-R-D-4'-S-935-F-96LG-120-SC-MOUNTING S122DR-S350D935-XX4F0-1-UDD-F-W SL2L-LOP-4FT-FLP-FL-90CRI-35K-1000LMF-MIN1-120	LED	MOUNTING SELECTION TO BE DETERMINED BY CC
LF6	5 5/8" LED RECESSED DOWNLIGHT	BEGA LIGMAN LIGHTHEADED	24817 35K UMO-80012-21W-M-W35 2-116-T-04-BRO36-35-8014-WET / D4B-FVR-R-T-3-P-VOLT	LED	COLOR SELECTION TO BE BY ARCHITECT.
LF7	DECORATIVE WALL-MOUNTED LED VANITY FIXTURE	BEGA	50144-FINISH	LED	FINAL MOUNTING HEIGHT TO BE COORDINATED W
LF8	SURFACE/PENDANT-MOUNT 2" X 4' LED LINEAR FIXTURE	FINELITE NEORAY MARK ARCHITECTURAL	HP-2-SM-D-4'-S-935-F-96LG-120-SC-MOUNTING-FE-FINISH S122DM/DP-C350D935-XX-XX4F0-1-UDD-F S2LS-LLP-4FT-90CRI-1000LMF-MIN1-120-WHT	LED	COORDINATE SURFACE OR PENDENT MOUNT WITH
LF9	RECESS-MOUNT, EDGE-LIT, LED EXIT SIGN	DUAL-LITE SURE-LITES BEGHELLI	LECXRX-FINISH-E EUX7RXX OL2-SA-LR-1/2-C-CR-FINISH	LED	DIRECTIONAL CHEVRONS, WALL OR CEILING MOUI
LF10	ARCHITECTURAL WALL-MOUNT LED FIXTURE	BEGA LIGMAN SISTEMALUX	33341 35K UGN-30031-2X12W-W35 S.7252W/MOD35K-DF-UNV-FINISH	LED	VERIFY FINISH AND MOUNTING HEIGHT WITH ARCH
LF11	8" DIA. LED PENDANT MOUNT CYLINDER	BEGA LIGMAN FC LIGHTING	24507 35K UJE-9511-39W-W-W35 FCC800-17-SPM/LENGTH-UNV-935-30L-FINISH-40-LD	LED	VERIFY FINISH AND MOUNTING HEIGHT WITH ARCH
LF13	DECORATIVE LED SITE BOLLARD FIXTURE	LIGMAN FC LIGHTING BEGA	ULI-10021-29W-T4-W35-FINISH-120/277V FCBT690-UNV-42-4K-19L-FINISH 88977 K35 FINISH 79 802	LED	VERIFY FINISH WITH ARCHITECT.
LF14	SECORATIVE LED SITE COLUMN LIGHT FIXTURE	LIGMAN WE-EF LUMINIS	UBE-20011-20W-W35-FINISH-120/277V 645-3421 LQ641-L1L15-R2-LQP669-120/277-FINISH	LED	VERIFY FINISH WITH ARCHITECT.

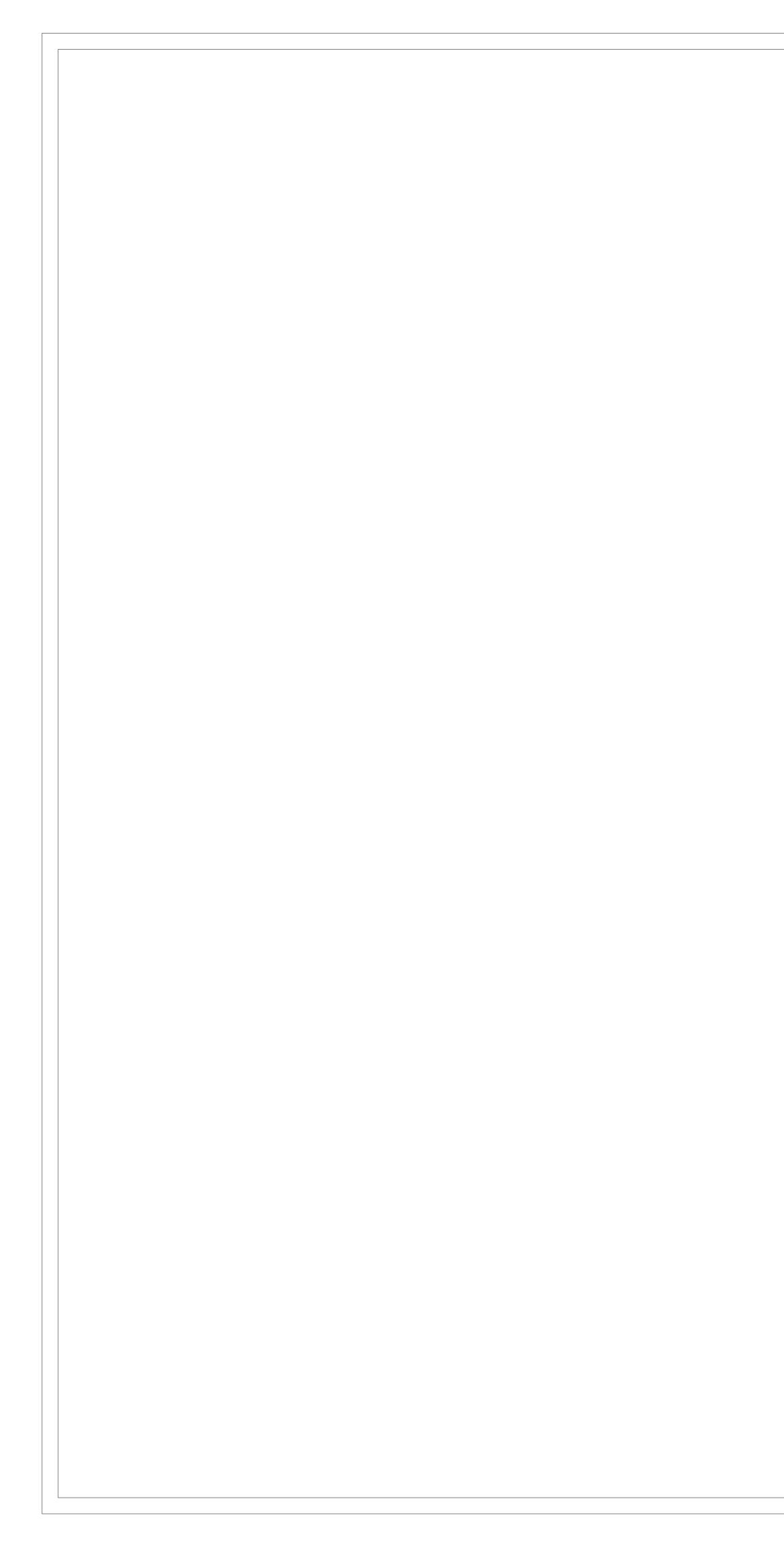
## 

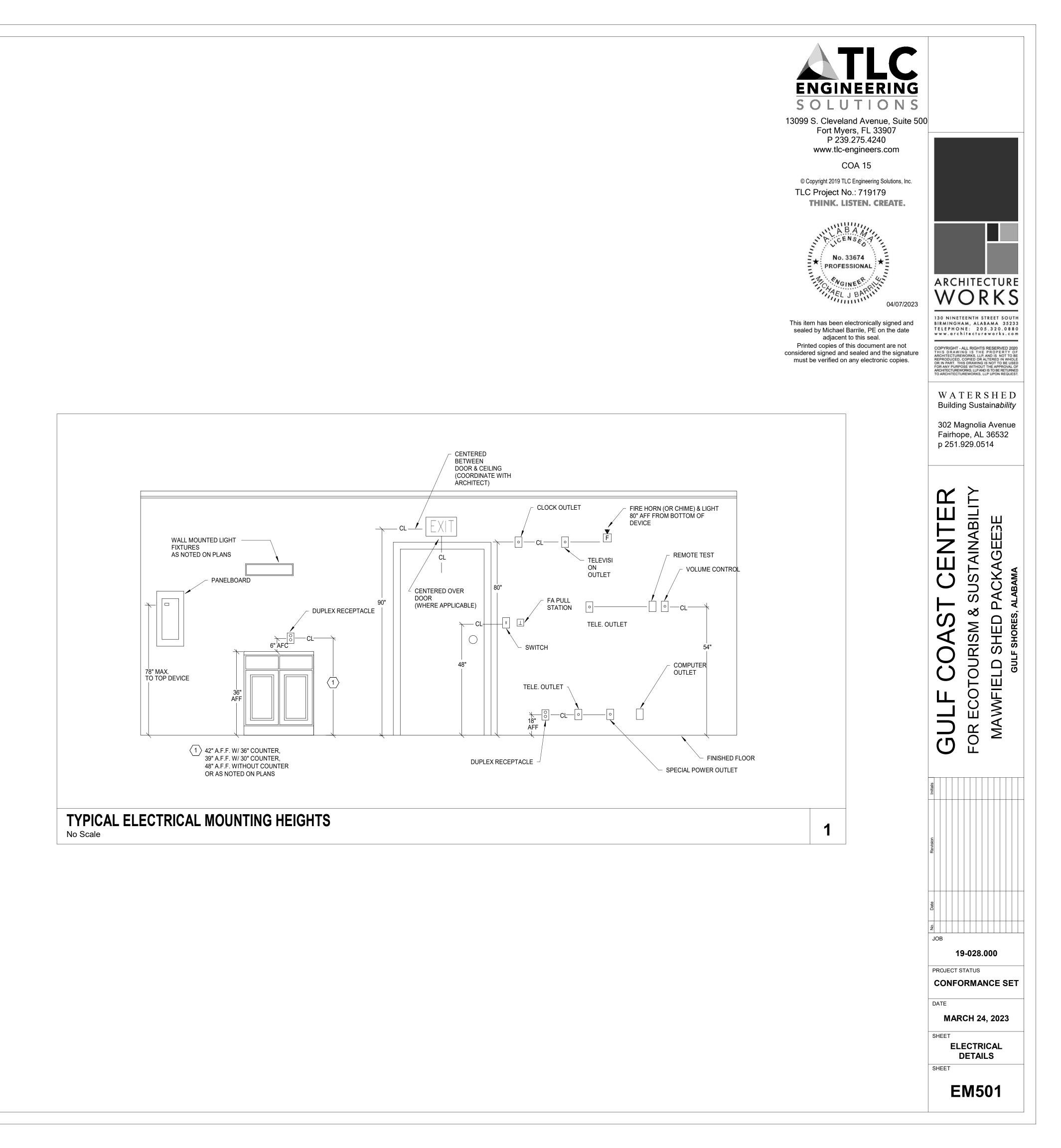






EM500





## TECHNOLOGY SYSTEMS GENERAL NOTES

- REFER TO SPECIFICATION SECTION "TECHNOLOGY GENERAL PROVISIONS" FOR MORE INFORMATION ABOUT DRAWINGS AND BID DOCUMENTS.
- MANY SYMBOLS USED IN THIS PROJECT HAVE A TYPE ASSOCIATED WITH THEM. SEE SHEETS WITH DETAILS AND PROJECT SPECIFICATIONS FOR MORE INFORMATION ON THE DESCRIPTION OF EACH TYPE.
- ALL CONDUIT FOR TECHNOLOGY SYSTEMS INDOOR ABOVE GRADE SHALL BE EMT AND ALL CONDUIT FOR BELOW GRADE SHALL BE PVC.
- SEE LIFE SAFETY PLANS FOR LOCATIONS OF FIRE RATED PARTITIONS IN THIS PROJECT. PROVIDE AN APPROVED FIRE STOP SYSTEMS FOR EACH RACEWAY OR CABLE GOING THROUGH A RATED WALL. SEE SPECIFICATION "RACEWAYS FOR TECHNOLOGY" FOR MORE INFORMATION.
- WORKING CLEARANCES AROUND ELECTRICAL EQUIPMENT SHALL BE MAINTAINED IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 110. COORDINATE EQUIPMENT INSTALLATION TO MAINTAIN REQUIRED CLEARANCES.
- SYMBOLS USED ON THE TECHNOLOGY DRAWINGS ARE NOT THE SAME SIZE AS THE ACTUAL OBJECT BEING REPRESENTED. THEREFORE LOCATIONS OF THE SYMBOLS ON THE FLOOR PLANS ARE AN APPROXIMATION TO THE ACTUAL LOCATION OF THE DEVICE AND NEED TO BE CAREFULLY COORDINATED WITH OTHER ELEMENTS IN THE VICINITY. AS A GENERAL GUIDELINE: A. VOICE/DATA OUTLET FOR WORK-AREAS SHALL BE INSTALLED WITHIN 6 INCHES OF A POWER OUTLET INDICATED IN
- ELECTRICAL DRAWINGS. B. TV OUTLETS SHALL BE INSTALLED WITHIN 6 INCHES OF A POWER OUTLET SHOWN ON THE ELECTRICAL DRAWINGS.
- WHEN MULTIPLE TECHNOLOGY SYSTEMS OUTLETS ARE INDICATED NEXT TO EACH OTHER WITH SYMBOLS. THE SPACING BETWEEN OUTLETS SHALL BE CONSISTENT IF NO ELEVATION IS SHOWN ON THE DRAWINGS. WHEN INSTALLER IS NOT CERTAIN ABOUT SPECIFIC ADJACENCIES OF A DEVICE, THE QUESTION SHALL BE ASKED TO THE ENGINEER PRIOR TO INSTALLATION.
- FOR EXACT LOCATION OF CEILING MOUNTED EQUIPMENT REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN. LOCATIONS OF EQUIPMENT NOT INCLUDED ON THE REFLECTED CEILING PLAN SHALL BE COORDINATED WITH THOSE ITEMS SHOWN. COORDINATION OF CEILING MOUNTED EQUIPMENT SHALL BE PRIOR TO ANY ROUGH-IN. NOTIFY ENGINEER OF ANY DISCREPANCY.
- LOCATIONS OF FLOOR BOXES AND FLOOR PENETRATIONS SHALL NOT BE MEASURED FROM THIS SET OF DRAWINGS. INSTALLER SHALL REQUEST PRECISE LOCATIONS FROM ARCHITECT.
- EACH VOICE/DATA RJ45 JACK SHALL BE CONNECTED TO A DEDICATED 4 PR CABLE.
- 10. THE RESPONSIBILITY OF RACEWAY INSTALLATION SHALL BE AS DIRECTED BY THE CONSTRUCTION MANAGER OR GENERAL CONTRACTOR, BUT ALL RACEWAYS FOR TECHNOLOGY ARE TO BE INCLUDED IN THIS CONTRACT.
- WHEN CONDUIT RUNS ARE INDICATED ABOVE GRADE OR BELOW GRADE ON THESE DRAWINGS, NOT EVERY SINGLE JUNCTION BOX (OR COMMUNICATIONS VAULT) REQUIRED IS INDICATED ON THE DRAWINGS. TYPICALLY ONLY END POINT LOCATIONS OR SPECIFIC PASS-THROUGH LOCATIONS WHERE THE ENGINEER DESIRES A BOX ARE SHOWN ON THE DRAWINGS. SEE SPECIFICATION "RACEWAYS FOR TECHNOLOGY" FOR REQUIREMENTS THAT INDICATE ADDITIONAL JUNCTION BOXES OR COMMUNICATION VAULTS THAT SHALL BE PROVIDED UNDER THIS CONTRACT. SUCH REQUIREMENTS INCLUDE ADDITIONAL BOXES REQUIRED BECAUSE OF NUMBER OF CONDUIT BENDS OR CHANGES IN ELEVATION.
- 12. SOME SYMBOLS INCLUDED IN THE SYMBOL LEGEND MAY NOT BE USED IN THESE PROJECT DRAWINGS.
- 13. UNDER NO CONDITIONS, CONDUITS FOR LOW VOLTAGE FOR FLOOR BOXES SHALL BE DAISY CHAINED TOGETHER BETWEEN ADJACENT FLOOR BOXES. ALL CONDUITS FOR FLOOR BOXES SHALL BE HOME RUNS TO NEAREST ACCESSIBLE CEILING SPACE.
- 14. THIS SET OF DRAWINGS DOES NOT INDICATE ALL GROUNDING AND BONDING REQUIREMENTS FOR TECHNOLOGY SYSTEMS. REFER TO SPECIFICATION SECTION "GROUNDING FOR TELECOMMUNICATION SYSTEM" FOR ADDITIONAL REQUIREMENTS.
- 15. ALL CABLES FOR TECHNOLOGY SYSTEMS RUN UNDER SLAB OR BELOW GRADE IN CONDUITS STUBBING UP INSIDE THE TELECOM ROOM SHALL BE INDOOR/OUTDOOR RATED. FOR CONDUITS STUBBING UP IN OTHER LOCATIONS DIFFERENT FROM TELECOM ROOMS AND FURTHER THAN 50 FT. FROM A TELECOM ROOM, DO NOT USE INDOOR/OUTDOOR RATED CABLES.
- . GRAPHICS USED FOR EQUIPMENT IN ELEVATIONS AND CHANNELS (LINE DRAWINGS) DO NOT NECESSARILY REPRESENT THE PART NUMBER OF THE EQUIPMENT SPECIFIED. THE PART NUMBERS LISTED IN THE DRAWINGS AND SPECIFICATIONS ARE TO BE FOLLOWED FOR BASIS OF DESIGN, NOT THE GRAPHICS.
- THE TECHNOLOGY DRAWINGS DO NOT SHOW ALL REQUIRED CONDUITS/RACEWAYS TO BE PROVIDED UNDER THIS CONTRACT. TYPICALLY CONDUIT SLEEVES SMALLER THAN 2" ARE NOT SHOWN ON THE DRAWINGS. SEE SPECIFICATIONS "RACEWAYS FOR TECHNOLOGY" AND DRAWING DETAILS FOR ADDITIONAL RACEWAY REQUIREMENTS.
- . DEFINITION OF ACRONYMS USED IN THESE DRAWINGS
- A. NIC (N.I.C.) NOT IN CONTRACT B. OFE (O.F.E.) = OWNER FURNISHED EQUIPMENT. SEE RESPONSIBILITY MATRIX FOR MORE INFORMATION. C. DHI (D.H.I.) = DOOR HARDWARE INSTALLER
- D. USC (U.S.C.) = UNDER SEPARATE CONTRACT.
- 19. ALL REQUIRED WALL PENETRATIONS, EXISTING AND NEW, SHALL MAINTAIN THE NEW WALL RATING AFTER CABLING HAS BEEN INSTALLED OR REMOVED.
- 20. ALL SPEAKERS MOUNTED IN A CEILING TILE SHALL BE CENTERED IN THE CEILING TILE.

## SECURITY SYSTEM GENERAL NOTES

- SYMBOLS USED TO REPRESENT DEVICES SUCH AS CCTV CAMERAS, INTERCOM STATIONS, SECURITY WORKSTATIONS, CALL STATIONS, AND EMERGENCY PHONE STATIONS REQUIRE ONE (1) DATA DROP FOR SUCH DEVICE. THIS DATA DROP IS NOT SHOWN ON THE VOICE/DATA FLOOR PLANS, BUT SHALL BE PROVIDED FOLLOWING ALL REQUIREMENTS FOR VOICE/DATA DROPS INDICATED IN THE DRAWING DETAILS AND IN THE SPECIFICATION "STRUCTURED CABLING SYSTEM".
- ANY DATA DROPS FOR SECURITY DEVICES EXCEEDING 295 FT. OF PERMANENT LINK DISTANCE TO THE TELECOM ROOM WHERE CAMERA WILL BE WIRED TO, SHALL BE WIRED WITH FIBER OPTICS FOR HORIZONTAL CABLING AND A 2 CONDUCTOR AWG-16 CL2(P) CABLE. THE FIBER CABLE SHALL BE AS DESCRIBED IN SPECIFICATION "STRUCTURED CABLING SYSTEM". IF NO INDICATION IN SUCH SPECIFICATION, FIBER OPTIC CABLE SHALL BE A 2-STRAND OM1 CABLE WITH A SUITABLE JACKET FOR THE APPLICATION.
- ALL DOUBLE DOORS THAT ARE SHOWN WITH TWO DOOR POSITIONS SWITCHES ARE TO RECEIVE (1) DOOR POSITION SWITCH ON EACH DOOR LEAF AND SHALL REPORT AS ONE ALARM POINT.
- ALL CAMERAS, CARD READERS AND/OR KEYPADS DEDICATED FOR ELEVATOR FLOOR SELECTION CONTROL ARE SHOWN INSIDE THE ELEVATOR CAB ON THE LOWEST LEVEL FLOOR PLAN TO HIGH THE ELEVATOR TRAVELS.
- LOCATION OF SURVEILLANCE CAMERAS SHALL BE CLOSELY COORDINATED WITH OTHER TRADES TO AVOID OBSTRUCTIONS IN THE FIELD OF VIEW. IT IS NOT REQUIRED FOR CAMERAS TO BE MOUNTED IN CENTER OF A CEILING TILE (OR CENTER OF A HALLWAY) IF THAT LOCATION CAUSES AN OBSTRUCTION IN THE FIELD OF VIEW OF THE CAMERA. ALL CAMERAS ARE TO BE INSTALLED AS TO MINIMIZE THE OBSTRUCTIONS IN THE FIELD OF VIEW WITHIN A 4' RADIUS OF THE SPECIFIED LOCATION.
- SURVEILLANCE CAMERAS INDICATED IN THE CORNER OF A ROOM SHALL BE INSTALLED AS CLOSE AS PHYSICALLY POSSIBLE TO THE CORNER OF THE ROOM TO GAIN THE BEST FIELD OF VIEW FOR THAT CAMERA.
- EACH ACCESS CONTROLLED DOOR IN THE PROJECT HAS A DOOR IDENTIFIER SYMBOL THAT ASSOCIATES THE DOOR TO A CORRESPONDING ROUGH-IN DETAIL IN THE DRAWINGS AND A SPECIFIC FUNCTIONALITY OF THE DOOR IN THE SECURITY SPECIFICATIONS.

### GENERAL

- --- MATCH LINE REFERENCING CONTINUATION ON OTHER DRAWINGS
- - DETAIL AND/OR SECTION REFERENCE
- ----- CABLE ROUTING BOUNDARY

## BASIC MATE

- CONDUIT TURNED DOWN CAPPED CONDUIT ——] CONDUIT STUBBED AND BUSHED INTO ACCESSIB
- CONDUIT CONTINUED

#### CONDUIT SLEEVES X= QTY OF SLEEVES

- Y= SIZE OF CONDUITS SLEEVES PENETRATING IF NO QUANTITY INDICATED USE AS MANY SLE SECTIONAL AREA OF CABLE TRAY NEXT TO SL
- TTTT TUBULAR RUNWAY, HUNG ABOVE CEILING OR AS **EXAMPLE** CABLE TRAY (TYPE), HUNG ABOVE CEILING OR AS
- SURFACE MOUNTED ENCLOSED TECHNOLOGY SY ADDITIONAL INFORMATION
- JUNCTION BOX WALL MOUNTED. SIZE PER NEC IF J INTERIOR, NEMA 4X FOR EXTERIOR USE WITH HIN
- JUNCTION BOX CEILING MOUNTED. SIZE PER NEC  $(\mathbf{J})$ INTERIOR, NEMA 4X FOR EXTERIOR USE WITH HIN
- TELECOMMUNICATIONS GROUND VAULT. SEE DE
- $\overrightarrow{V}_X$  X= BOX TYPE. IF NOT SHOWN, ONLY ONE TYPE IN TELECOMMUNICATIONS PULLBOX. SEE DETAILS A
- PB X= BOX TYPE. IF NOT SHOWN, ONLY ONE TYPE IN I TP TECHNOLOGY POLE. SEE SHEETS WITH DETAILS

## DRAWING NOTES AND

- $\langle x \rangle$  DRAWING KEYED NOTES
- CABLE ROUTING NOTES  $\langle \! \rangle$
- $\begin{pmatrix} X \\ X \end{pmatrix}$  DETAIL OR SECTION REFERENCE TAG

### AUDIO VISUAL E CEILING MOUNTED SPEAKER

- X= SPEAKER TYPE (SX) Y= SPEAKER ZONE Y-Z Z= DENOTES SPEAKER # IN ZONE W W= DENOTES SPEAKER WATTAGE TAP NO ZONE INDICATES LOCAL ZONE FOR A/V SYSTE WALL MOUNTED SPEAKER X= SPEAKER TYPE Y= SPEAKER ZONE -SX -z Z= DENOTES SPEAKER # IN ZONE W. W= DENOTES SPEAKER WATTAGE TAP +H= MOUNTING HEIGHT IN INCHES AT CENTER OF NO ZONE INDICATES LOCAL ZONE FOR A/V SYSTE VOLUME CONTROL, WALL MOUNTED +H +H= MOUNTING HEIGHT IN INCHES AT CENTER OF FT FLIP TOP DEVICE MOUNTED ON TABLE SENS MICROPHONE FOR AMBIENT NOISE, WALL -SM +H= MOUNTING HEIGHT IN INCHES AT CENTER OF (SM) SENS MICROPHONE FOR AMBIENT NOISE, CEILING MICROPHONE, DESK MOUNTED MX X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJ
- MICROPHONE, WALL MOUNTED -MX  $_{+H}^{J}$  X= DENOTES TYPE OF OUTLET, IF NOT SHOWN, O +H= MOUNTING HEIGHT IN INCHES AT CENTER OF
- MICROPHONE, CEILING MOUNTED X X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJ WIRELESS ANTENNA FOR WIRELESS MICRPHONE
- +H +H= MOUNTING HEIGHT IN INCHES AT CENTER OF TOUCH SCREEN FOR AUDIO/VIDEO CONTROL, DES
- TS X= DENOTES TYPE OF OUTLET, SEE RISER FOR M TOUCH SCREEN FOR AUDIO/VIDEO CONTROL, WA
- TS X= DENOTES TYPE OF OUTLET, SEE RISER FOR MO +H +H= MOUNTING HEIGHT IN INCHES AT CENTER OF
- HAVX CAMERA FOR AV SYSTEM, WALL MOUNTED +H= MOUNTING HEIGHT IN INCHES AT CENTER OF
- CAMERA FOR AV SYSTEM, CEILING MOUNTED AV X X= DENOTES TYPE OF OUTLET, SEE RISER FOR M ASSISTED LISTENING TRANSMITTER, WALL MOUN
- ASSISTED LISTEINING TO ALLE AT CENTER OF ROOM SCHEDULING PANEL, WALL MOUNTED, INCL -RS X= DENOTES TYPE OF OUTLET, SEE RISER FOR MO
- +H +H= MOUNTING HEIGHT IN INCHES AT CENTER OF AUDIO VISUAL DISPLAY
- TT TT = DISPLAY TYPE WITH MOUNT +YY XX= SCREEN SIZE YY= HEIGHT TO CENTER OF SCREEN
- INTERACTIVE WHITEBOARD
- TT= DISPLAY TYPE WITH MOUNT <sup>^^</sup><sub>+YY</sub> XX= SCREEN SIZE
- YY= HEIGHT TO CENTER OF SCREEN OVERHEAD PROJECTOR WITH MOUNT
- X D X=TYPE Y= LENS THROW RATIO
- PULLDOWN PROJECTION SCREEN X = DIAGONAL DIMENSION IN INCHES
- MOTORIZED PROJECTION SCREEN X= DIAGONAL DIMENSION IN INCHES
- WALL SWITCH FOR MOTORIZED SCREEN Siv
- X= DENOTES TYPE OF OUTLET, IF NOT SHOWN, O AV PLATE OUTLET, REFER TO DETAIL SHEETS
- +H +H= MOUNTING HEIGHT IN INCHES AT CENTER OF
- PODIUM FOR AV EQUIPMENT, REFER TO DETAIL S X= DENOTES TYPE OF OUTLET, SEE DETAIL FOR M
- EXISTING WORK AND/OR EQUIPMENT REFERENCE, SHOWN ON MULTIPLE DRAWINGS DEVICE TO BE REMOVED (DEMO PLANS) UNDERFLOOR CONDUIT (NEW PLANS)

ERIALS	VIDEO SURVEILLANCE SYSTEMS	· · · · · · · · · · · · · · · · · · ·
	PAN/TILT/ZOOM CCTV CAMERA, WALL MOUNTED X,C X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER	TELECOMMUNIC X= MOUNTING: (I
		W,WP XNYZ N= NUMBER OF I
LE CEILING CAVITY	$\mathcal{L}_{X,C}$ X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER	U Y= NOT USED +H Z= NUMBER OF F
	$f_{X,C}$ X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER	U= USER(IF APPL +H= INSTALLATIO
	$\mathbb{C}_{X,C}$ X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER	ELECTRICAL. IF N
G WALL ABOVE CEILING SPACE.	$- \bigoplus_{X,C} 180^{\circ}$ CCTV CAMERA, WALL MOUNTED X,C X = CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER	W= WALL TELEP OF OUTLET AND
EVES AS REQUIRED TO MATCH CROSS	180° CCTV CAMERA, CEILING MOUNTED	WP=WEATHERP
EEVE.	$V_{X,C}$ X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER 180° MULTI-IMAGER CCTV CAMERA, WALL MOUNTED	EXAMPLE: F2 = T
NOTED	$\mathcal{W}_{X,C}$ X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER	MECH OUTLET FOR MECH
S NOTED YSTEMS. SEE SHEETS WITH DETAILS FOR	180° MULTI-IMAGER CCTV CAMERA, CEILING MOUNTED $X_{,C} X$ = CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER	U U: AS DESCRIBED FO
	$360^{\circ}$ CCTV CAMERA, WALL MOUNTED $X_{,C}$ X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER	CEILING MOUNTED I
NOT INDICATED ON DRAWING. NEMA 1 FOR IGED COVER AND LOCKING COVER		U: AS DESCRIBED FO
; IF NOT INDICATED ON DRAWING. NEMA 1 FOR IGED COVER AND LOCKING COVER	$(\bigcirc x,c)$ X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER 360° MULTI-IMAGER CCTV CAMERA, WALL MOUNTED	XY Y: AS DESCRIBED FO
TAILS AND SPECS FOR MORE INFORMATION	$\mathcal{W}_{X,C}$ X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER	U U: AS DESCRIBED FO
PROJECT ND SPECS FOR MORE INFORMATION	$360^{\circ}$ MULTI-IMAGER CCTV CAMERA, CEILING MOUNTED X,C X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER	WAP OUTLET FOR WIREL
PROJECT	CCTVFLAT PANEL DISPLAY WITH MOUNT	U: AS DESCRIBED F
FOR ADDITIONAL INFORMATION	+YY YY= HEIGHT TO CENTER OF SCREEN	FLOOR BOX FOR FLOORBOX SCH
	SECURITY SYSTEM WORKSTATION, DESK MOUNTED	F= FLOOR COND
D DESIGNATIONS	ELECTRONIC SECURITY SYSTEM	Y= DENOTES # C Z= DENOTES PLA
	CR CARD READER, WALL MOUNTED	LN= AS DESCRIB U: AS DESCRIBE
	CK CARD READER WITH INTEGRATED KEYPAD, WALL MOUNTED	POKE-THRU FOR
	BR BIOMETRIC ACCESS CONTROL DEVICE, WALL MOUNTED	FLOOR BOX SCH
EQUIPMENT	KP KEYPAD, WALL MOUNTED	Y= DENOTES PO Z= DENOTES PL/
		LN= AS DESCRIB U: AS DESCRIBE
	WM       WIRELESS MORTISE LOCK, DOOR MOUNTED         WC       WIRELESS CYLINDRICAL LOCK, DOOR MOUNTED	
	INTRUSION ALARM KEYPAD	$\xrightarrow{(f)}_X$ X= TYPE, IF NOT SHO
EM IN ROOM	ELECTRIC MORTISE LOCK OR ELECTRIC TRIM	(FP) POKE-THRU USED T X = TYPE, IF NOT SHO
	DELAYED EGRESS LATCH LOCK	AV BACKBOX, INSTA
	DELAYED EGRESS MAG LOCK	U G= DENOTES # OF G
DEVICE		+H XY= AS DESCRIBED U: AS DESCRIBED FO
EM IN ROOM	<ul> <li>ELECTRIC LATCH RETRACTION LOCK</li> <li>ELECTROMAGNETIC LOCK</li> </ul>	+H= MOUNTING HEI
OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF		$-\underline{RG}$ ROUGH-IN. REFER T U G= DENOTES # OF G
	ES ELECTRIC DOOR STRIKE	+H XY= AS DESCRIBED U: AS DESCRIBED F
/OUNTED • OUTLET, IF NOT SHOWN, INSTALL AT 8'-0" AFF	ELECTRIC DOOR OPERATOR (ACTUATOR ARM)	+H= MOUNTING HEI
G MOUNTED	DPS DOOR POSITION SWITCH	POWER POLE FOR C
JECT	BMS BALANCED MAGNETIC SWITCH PIM MODULE FOR WIRELESS LOCKS, WALL MOUNTED	FIBER OPTICS R
	+H +H = MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF	N= DENOTES CO N-XX-Z XX= DENOTES FI
NLY ONE TYPE FOUTLET	ALARM, BLUE LIGHT, WALL MOUNTED +H +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF	Z= DENOTES RU REFER TO FIBER
JECT	LOCAL ALARM - HORN/STROBE, WALL MOUNTED +H +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF	
, WALL MOUNTED	JEAT SIREN ALARM FOR INTRUSION DETECTION, WALL MOUNTED	COVERAGE OF EACH TELECO
OUTLET, IF NOT SHOWN, INSTALL AT 8'-0" AFF SK MOUNTED	+H +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7-0 AFF	VOLTAGE CABLES CAN BE RU
IORE INFO, IF NOT SHOWN, ONLY ONE TYPE	-ASSISTANCE STATION, WALL MOUNTED X X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT, REFER TO SPECIFICATION FOR TYPE +H +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF	
ALL MOUNTED, INCLUDES BACK BOX IORE INFO, IF NOT SHOWN, ONLY ONE TYPE	ASSISTANCE STATION (BLUE LIGHT), TOWER STATION	
OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF	(AS) $X = TYPE$ , IF NOT SHOWN, ONLY ONE TYPE IN PROJECT, REFER TO SPECIFICATION FOR TYPE INTERCOM SUBSTATION (DOOR STATION), WALL MOUNTED	
ORE INFO, IF NOT SHOWN, ONLY ONE TYPE	<ul> <li>A SUBSTATION (DOOR STATION), WALL MOUNTED</li> <li>X X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT, REFER TO RISER FOR TYPE</li> <li>+H +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF</li> </ul>	
	INTERCOM MASTER STATION, DESK MOUNTED	COVERAGE FOR
IORE INFO, IF NOT SHOWN, ONLY ONE TYPE TED	IM X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT, REFER TO RISER FOR TYPE INTERCOM MASTER STATION, WAII MOUNTED	
OUTLET	<ul> <li>X = TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT, REFER TO RISER FOR TYPE</li> <li>+H +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF</li> </ul>	
LUDES BACK BOX IORE INFO, IF NOT SHOWN, ONLY ONE TYPE	CALL STATION (THROUGH PHONE LINE) FOR BUILDING ENTRY, WALL MOUNTED	
OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF	+H +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4-0 AFF	Shoot Number
	X= TYPE (A1,C3,B6) REFER TO SECURITY DOOR DETAILS	Sheet Number
	DOOR RELEASE BUTTON, WALL MOUNTED X= A: ADA ACCESSIBLE - (PALM ACTUATOR), W: HAND WAVE, NO TYPE: REGULAR PUSH BUTTON	
	O DOOR RELEASE BUTTON, DESK MOUNTED	TM000
	REX REQUEST TO EXIT DEVICE (IR SENSOR), MOUNT CENTERED ABOVE DOOR FRAME	
	GLASS BREAK SENSOR, WALL MOUNTED 	TM100
	GB GLASS BREAK SENSOR, CEILING MOUNTED	
	GP GATE PEDESTAL	TM500
	GO ELECTRIC GATE OPERATOR DURESS PANIC BUTTON, WALL MOUNTED	
	$+U_{+H}$ +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF	
	D DURESS PANIC BUTTON, MOUNTED UNDER DESK	
SHEETS ONLY ONE TYPE IN PROJECT	-MD MOTION DETECTOR, WALL MOUNTED, MOUNT 6" BELOW CEILING OR 8'-0" AFF MAX MD MOTION DETECTOR, 360 DEGREE SENSOR, CEILING MOUNTED	
MORE INFO, IF NOT SHOWN, ONLY ONE TYPE	DURESS PANIC BUTTON, WALL MOUNTED	
OUTLET, IF NOT SHOWN, INSTALL AT 1'-6" AFF	$+H_{H}$ +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 8'-0" AFF	
	CONTROLLED DOOR INTERLOCK GROUP. PROGRAMMED SO ONLY ONE DOOR CAN BE OPEN AT A	
	ACCESS CONTROL DOOR DIRECTION, A1/A2 - REPRESENTS ACCESS CONTROL PATH FREE - NO ACCESS CONTROL	
	CR/KP - CARD READER AND KEYPAD MONITORED - DOOR MONITORED	

## **VOICE AND DATA SYSTEM**

CATION OUTLET (E= EXISTING, F= FLUSH, S= SURFACE, M= MODULAR FURNITURE ADAPTER, OR, R = RACEWAYDATA CABLES IN THE FACEPLATE

FIBER OPTIC STRANDS IN THE FACEPLATE

PLICABLE) ION HEIGHT IN INCHES AT CENTER OF OUTLET, COORDINATE WITH NOT SHOWN INSTALL AT TYPICAL RECEPTACLE HEIGHT. PHONE FACEPLATE WITH SUPPORT STUDS, INSTALLED AT 48" AFF AT CENTER D 12" FROM EDGE OF WALL.

TWO DATA JACKS IN A SINGLE FACEPLATE, FLUSH MOUNTED IANICAL/ ELECTRICAL/ FIRE ALARM/ ELEVATOR/ STAR CONNECTION

OR TELECOMMUNICATIONS OUTLET OR TELECOMMUNICATIONS OUTLET , COORDINATE EXACT LOCATION WITH DEVICE INFORMATION OUTLET, MOUNTED ON FINISHED CEILING FOR TELECOMMUNICATIONS OUTLET

OR TELECOMMUNICATIONS OUTLET LESS ACCESS POINT, WALL MOUNTED OR TELECOMMUNICATIONS OUTLET

OR TELECOMMUNICATIONS OUTLET GHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 8'-0" AFF LESS ACCESS POINT, MOUNTED ON FINISHED CEILING FOR TELECOMMUNICATIONS OUTLET

OR TELECOMMUNICATIONS OUTLET R TECHNOLOGY SYSTEMS AND POWER OUTLETS. REFER TO POKE-THRU/ EDULE FOR MORE INFORMATION DITION: (C= CONCRETE TYPE, G= GRADE, R= RAISED FLOOR, W= WOOD)

OF GANGS (1.2.3...) ATE TYPE (A,B,C....), A= NO AUDIO/VISUAL BED FOR TELECOMMUNICATIONS OUTLET ED FOR TELECOMMUNICATIONS OUTLET

R TECHNOLOGY SYSTEMS AND POWER OUTLETS. REFER TO POKE-THRU & HEDULE FOR MORE INFORMATION

DKE-THRU SIZE (4=4", 6=6" 8=8".....) ATE TYPE (A,B,C....), A= NO AUDIO/VISUAL BED FOR TELECOMMUNICATIONS OUTLET ED FOR TELECOMMUNICATIONS OUTLET

TO FEED CABLES TO MODULAR FURNITURE, REFER TO DETAIL SHEET IOWN, ONLY ONE TYPE IN PROJECT

TO FEED CABLES TO MODULAR FURNITURE, REFER TO DETAIL SHEET IOWN, ONLY ONE TYPE IN PROJECT

ALLED BEHIND DISPLAY/ CREDENZA RACK, COORDINATE BACKBOX PRIOR TO TO DETAIL & SCHEDULE FOR MORE INFORMATION GANGS

FOR TELECOMMUNICATIONS OUTLET OR TELECOMMUNICATIONS OUTLET

IGHT IN INCHES AT CENTER OF DEVICE TORAGE BOX, INSTALLED BEHIND DISPLAY, COORDINATE BACKBOX PRIOR TO TO DETAIL & SCHEDULE FOR MORE INFORMATION

GANGS FOR TELECOMMUNICATIONS OUTLET OR TELECOMMUNICATIONS OUTLET

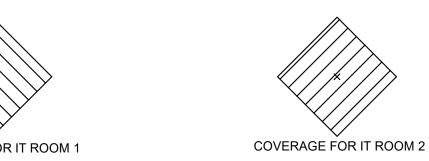
IGHT IN INCHES AT CENTER OF DEVICE COMBINED USE - TECHNOLOGY SYSTEMS AND POWER. IOWN, ONLY ONE TYPE IN PROJECT

ROUTING TAG FOR BACKBONE CABLING ONNECTION TYPE (P=PRIMARY, S=SECONDARY) IBER STAND QUANTITY

JN NUMBER R OPTICS RISER FOR MORE INFORMATION.

COVERAGE FOR IDF

OM ROOM. THE SHADED REGIONS REPRESENT THE MAXIMUM DISTANCE LOW UN FROM EACH IDF.



T - MOBILITY SHEET LIST

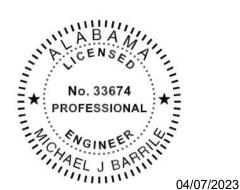
Sheet Name	TLC_Sub Discipline
TECHNOLOGY LEGEND AND SHEET INDEX	MOBILITY
MOBILITY HUB TECHNOLOGY FLOOR PLAN	MOBILITY
TECHNOLOGY DETAILS	MOBILITY



13099 S. Cleveland Avenue, Suite 500 Fort Myers, FL 33907 P 239.275.4240 www.tlc-engineers.com

COA 15

© Copyright 2019 TLC Engineering Solutions, Inc. TLC Project No.: 719179 THINK. LISTEN. CREATE.



This item has been electronically signed and sealed by Michael Barrile, PE on the date adjacent to this seal. Printed copies of this document are not

considered signed and sealed and the signature must be verified on any electronic copies.

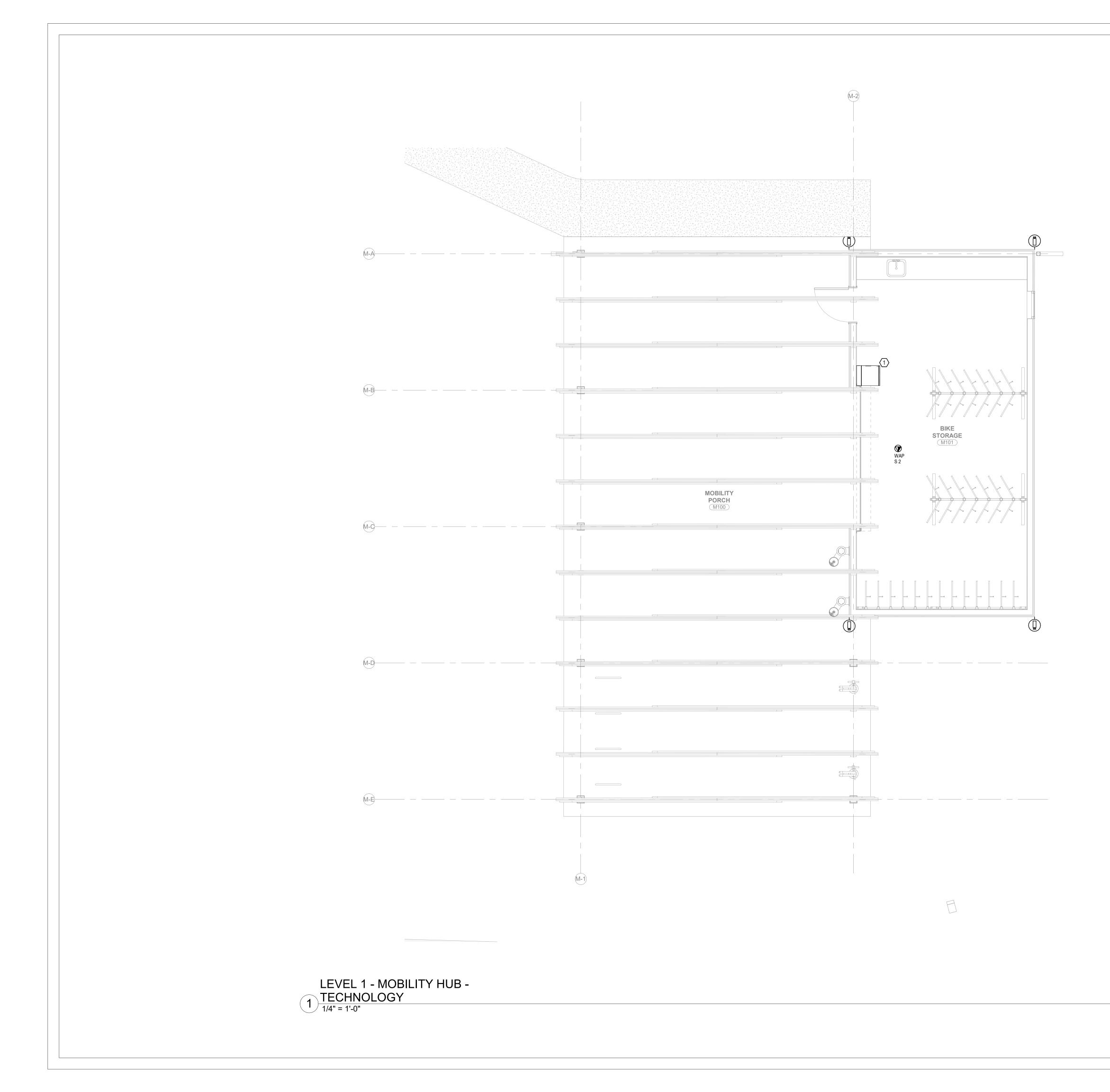


WATERSHED Building Sustainability

302 Magnolia Avenue Fairhope, AL 36532 p 251.929.0514

GULF COAST CENTER	FOR ECOTOURISM & SUSTAINABILITY	MOBILITY HUB PACKAGE	GULF SHORES, ALABAMA				
Initials							
Revision							
Date							
јов <b>19-028.000</b>							
PROJECT STATUS							
MARCH 24, 2023 SHEET TECHNOLOGY LEGEND AND SHEET							
SHEET	INDEX SHEET						





## TECHNOLOGY KEYED NOTES

PROVIDE WALL MOUNTED EQUIPMENT RACK MOUNTED TO 3/4" PLYWOOD BACKBOARD. DESIGN SELECTION: DWR-12-26PD



13099 S. Cleveland Avenue, Suite 500 Fort Myers, FL 33907 P 239.275.4240 www.tlc-engineers.com

COA 15

© Copyright 2019 TLC Engineering Solutions, Inc. TLC Project No.: 719179 THINK. LISTEN. CREATE.



This item has been electronically signed and sealed by Michael Barrile, PE on the date adjacent to this seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



W A T E R S H E D Building Sustain*ability* 

302 Magnolia Avenue Fairhope, AL 36532 p 251.929.0514

CENTER SUSTAINABILITY PACKAGE Labama S HUB FOR ECOTOURISM & 0 0 0 GULF Ň. JOB 19-028.000 PROJECT STATUS CONFORMANCE SET DATE MARCH 24, 2023 SHEET MOBILITY HUB TECHNOLOGY FLOOR PLAN TM100

