

PROJECT DATA:

PROJECT DESCRIPTION:

THE PROJECT IS A MULTI-USE BUILDING CONSISTING OF A WAREHOUSE PORTION AND A SMALL OFFICE AREA. THE BUILDING STRUCTURE IS A PRE-ENGINEERED METAL BUILDING WITH WOOD INFILL FOR THE OFFICE AREA LOCATED AT THE FRONT OF THE BUILDING. THE BUILDING WILL CONSIST OF METAL ROOF PANELS, METAL WALL PANELS, STUCCO AND BRICK. THE WAREHOUSE IS 9,918 SQ.FT. AND THE OFFICE IS 2,010 SQ.FT.

APPLICABLE CODES:

-INTERNATIONAL BUILDING CODE (IBC), 2015 ED.
 -LIFE SAFETY CODE - NFPA 101, 2015 ED.
 -NATIONAL ELECTRIC CODE - NFPA 70, 2014 ED.
 -INTERNATIONAL MECHANICAL CODE (IMC), 2015
 -LOUISIANA STATE PLUMBING CODE, 2015
 -AMERICANS WITH DISABILITIES ACT (ADA) 2010 ED.

-CONSTRUCTION TYPE:

IBC - VB (NON-SPRINKLERED)

-OCCUPANCY CLASSIFICATION:

IBC = BUSINESS GROUP B - (OFFICE)
 IBC = STORAGE GROUP S-2 (LOW HAZARD)

PLUMBING IBC 2015:

WATER CLOSETS

BUSINESS = 1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50
 STORAGE = 1 PER 100

LAVATORIES

BUSINESS = 1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80
 STORAGE = 1 PER 100

PARKING REQUIREMENTS:

PER LOCAL CODES

ZONING:

-LIGHT INDUSTRY (LI)

ULTIMATE DESIGN WIND SPEED

(3-SECOND GUST)

RISK CATEGORY II

130 MPH

SYMBOL LEGEND:

	- CENTER LINE		- DETAIL TAG (WALL SECTION) / ENLARGED PLAN (PLAN) / WALL SECTION (BUILDING SECTION)
	- BREAK LINE		- REVISION CLOUD
	- COLUMN GRID		- BUILDING SECTION (PLAN)
	- ROOMNAME & NUMBER		- BUILDING SECTION (ELEVATION) / WALL SECTION (PLAN) / ROOF DETAIL (ROOF PLAN) / HEAD, JAMB & SILL DETAIL (DOOR & WINDOW TYPES)
	- WINDOW TAG		- WALL PARTITION (PLAN)
111A	- DOOR NUMBER TAG		
	- KEYNOTE / GENERAL NOTE		
	- INTERIOR/EXTERIOR ELEVATION		
	- ELEVATION TAG (BUILDING SECTION)		
	- FIRE EXTINGUISHER (CODE PLAN)		
	- EXIT SIGN (CODE PLAN)		

DRAWING TITLE _____ 1/8"=1'-0"

COPPERHEAD

COPPERHEAD BUILDING NO.2

35030 HWY. 30 GEISMAR, LOUISIANA 70734

OWNER:

TALON INDUSTRIAL, LLC

ARCHITECT:

MKE ARCHITECTS, LLC

CONTRACTOR:

RW CONSTRUCTION, LLC



BUILDING ELEVATION:

LOCATION MAP:



DRAWING INDEX:

T0.01 TITLE SHEET / INDEX (PROJECT)

LIFE SAFETY DRAWINGS:

LS1.00 LIFE SAFETY PLANS

ARCHITECTURAL DRAWINGS: (SERVICE BUILDING)

A1.00 SUPPLEMENTAL INFORMATION
 A1.01 SITE PLAN
 A1.02 FLOOR PLAN
 A1.03 RCP PLAN
 A2.01 EXTERIOR ELEVATIONS
 A3.01 BUILDING SECTIONS
 A4.01 INTERIOR ELEVATIONS
 A5.01 SCHEDULES / FINISH PLANS

ELECTRICAL DRAWINGS: (SALES BUILDING)

E1.00 POWER PLAN / RISER
 E2.00 LIGHTING PLAN / SCHEDULE
 E3.00 GENERAL SPECIFICATIONS

MECHANICAL DRAWINGS:

M1.01 MECHANICAL FLOOR PLAN
 M2.01 MECHANICAL DETAILS / SCHEDULES

MECHANICAL / PLUMBING SPECS:

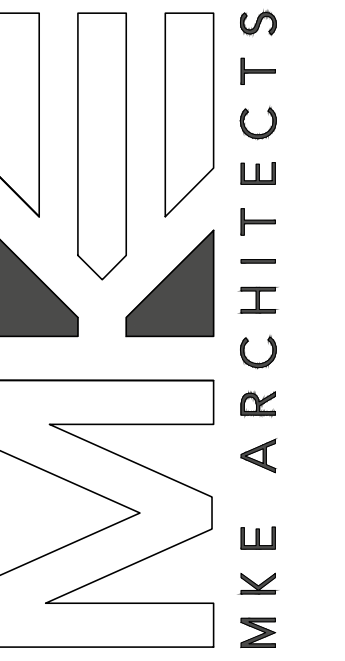
MPS1.01 MECHANICAL / PLUMBING SPECIFICATIONS

PLUMBING DRAWINGS:

P1.01 PLUMBING FLOOR PLAN
 P2.01 PLUMBING DETAILS & RISERS

STRUCTURAL DRAWINGS:

S0.01 GENERAL NOTES & INDEX
 S1.01 FOUNDATION PLAN
 S2.01 FOUNDATION DETAILS



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 BATON ROUGE, LA 70816

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 Jason Ferrell
 (225) 927-9321

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 Merge Engineering
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 Tim Verkaik
 (225) 478-2990

Mechanical:
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 COPPERHEAD
 BUILDING - NO.2

Project Location:
 35030 HWY 30
 GEISMAR, ASCENSION PARISH, LA

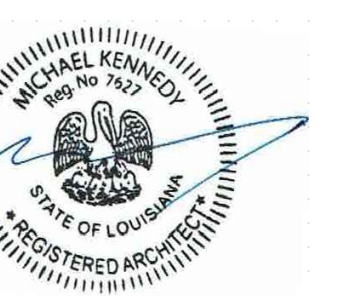
Sheet Revisions:

No. Date Description

Sheet Name:

TITLE SHEET

Seal



Project Number:

19-11

Date:

JULY 17, 2019

Document Phase:

CONSTRUCTION DOCUMENTS

Sheet Number:

T0.01

CODES:
MULTIPLE USE OCCUPANCY
 OCCUPANCY = BUSINESS GROUP B
 OCCUPANCY LOAD = BUSINESS AREAS = 100 GROSS
 OCCUPANCY = STORAGE GROUP S-2 (LOW HAZARD)
 OCCUPANCY LOAD = WAREHOUSES = 500 GROSS
 CONSTRUCTION TYPE = VB (NON-SPRINKLERED)
 DEAD END CORRIDOR = NOT MORE THAN 20'

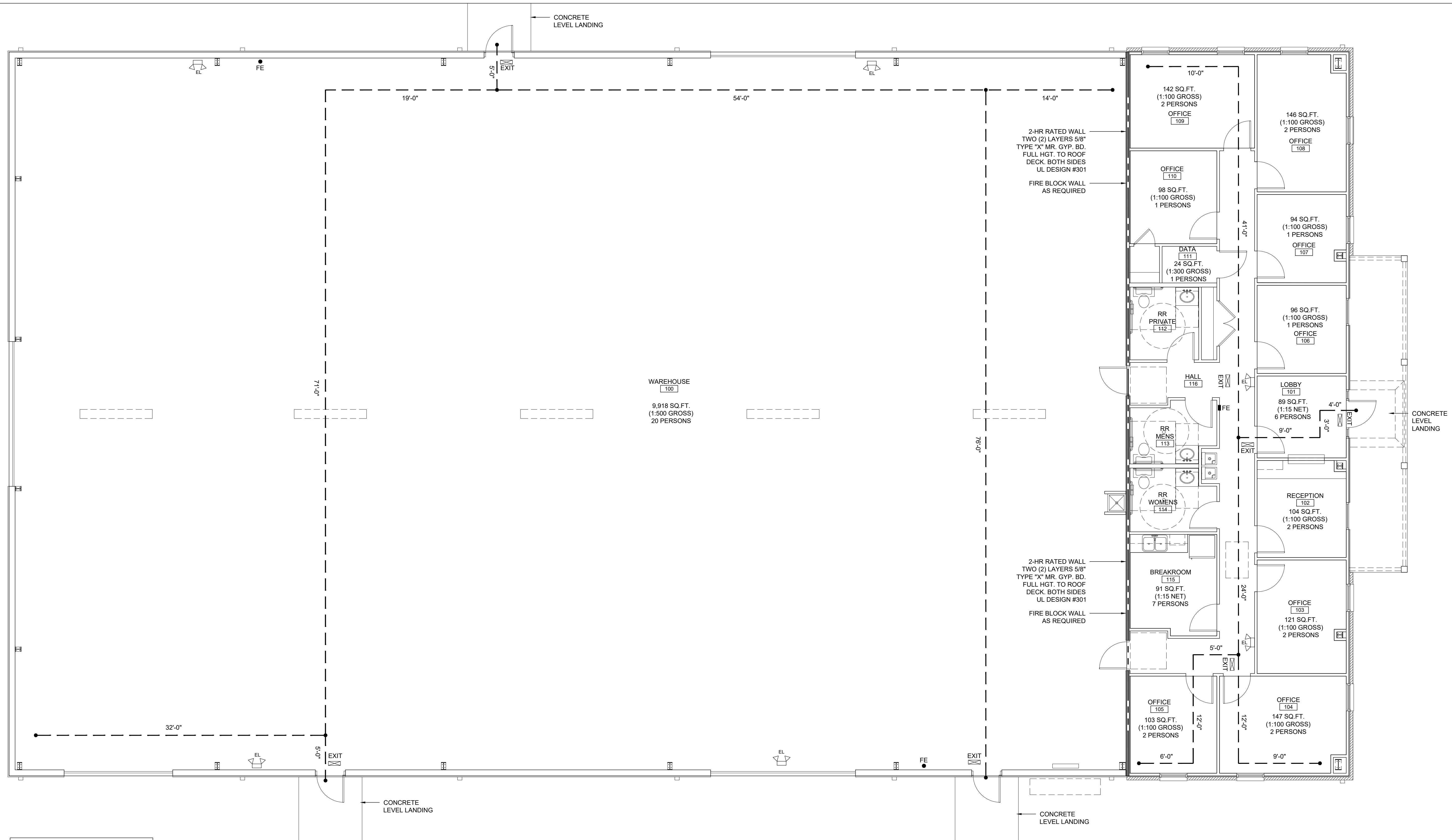
COMMON PATH OF TRAVEL: OCCUPANCY: B = WITHOUT SPRINKLER:
 LESS THAN 30 = 100 FT. ; GREATER THAN 30 = 75'
 COMMON PATH OF TRAVEL: OCCUPANCY: S = WITHOUT SPRINKLER:
 LESS THAN 30 = 100 FT. ; GREATER THAN 30 = 75'
 EXIT ACCESS TRAVEL DISTANCE: OCCUPANCY: B:
 WITHOUT SPRINKLER = 200'
 EXIT ACCESS TRAVEL DISTANCE: OCCUPANCY: S2:
 WITHOUT SPRINKLER = 300'

ALLOWABLE BUILDING HEIGHTS AND STORIES
 GROUP B (NON-SPRINKLERED) = 2 STORIES /
 40' HEIGHT RESTRICTION
 ALLOWABLE BUILDING AREA
 GROUP B (NON-SPRINKLERED) = 9,000 SQ.FT.
 ALLOWABLE BUILDING HEIGHTS AND STORIES
 GROUP S-2 (NON-SPRINKLERED) = 2 STORIES /
 40' HEIGHT RESTRICTION
 ALLOWABLE BUILDING AREA
 GROUP S-2 (NON-SPRINKLERED) = 13,500 SQ.FT.

TABLE 508.4 - REQUIRED SEPARATION OF OCCUPANCIES:
 BUSINESS - STORAGE S-2 (LOW AND ORDINARY HAZARD)
 NON-SPRINKLERED = 2 HOURS
 SECTION 1005: MEANS OF EGRESS SIZING:
 1005.3.2 OTHER EGRESS COMPONENTS: THE CAPACITY,
 IN INCHES OF MEANS OF EGRESS COMPONENTS OTHER
 THAN STAIRWAYS SHALL BE CALCULATED BY
 MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH
 COMPONENT BY A MEANS OF EGRESS CAPACITY
 FACTOR OF 0.2 INCH PER OCCUPANT.

SECTION 1016: EXIT ACCESS
 -1016.2 EGRESS THROUGH INTERVENING SPACES:
 EGRESS THROUGH INTERVENING SPACES SHALL COMPLY
 WITH THIS SECTION.
 2. EGRESS FROM A ROOM OR SPACE SHALL NOT PASS
 THROUGH ADJOINING OR INTERVENING ROOMS OR AREAS,
 EXCEPT WHERE SUCH ADJOINING ROOMS OR AREAS AND
 THE AREA SERVED ARE ACCESSORY TO ONE OR THE OTHER,
 ARE NOT A GROUP H OCCUPANCY AND PROVIDE A
 DISCERNIBLE PATH OF EGRESS TRAVEL TO AN EXIT.

EXCEPTION: MEANS OF EGRESS ARE NOT PROHIBITED
 THROUGH ADJOINING OR INTERVENING ROOMS OR SPACES IN
 A GROUP H, S, OR F OCCUPANCY WHEN THE ADJOINING OR
 INTERVENING ROOMS OR SPACES ARE THE SAME OR A LESSER
 HAZARD OCCUPANCY.
 3. AN EXIT ACCESS SHALL NOT PASS THROUGH A ROOM THAT
 CAN BE LOCKED TO PREVENT EGRESS.
 5. EGRESS SHALL NOT PASS THROUGH KITCHENS, STORAGE
 ROOMS, CLOSETS, OR SPACES USED FOR SIMILAR PURPOSES.



SQUARE FOOTAGE:

OFFICE AREA	2,010
WAREHOUSE AREA	9,918
BUILDING AREA	11,928
FRONT PORCH	220
TOTAL AREA	12,148

UL-U301 TWO-HOUR FIRE-RESISTIVE WOOD FRAME WALL ASSEMBLY
 2X4 WOOD STUD WALL
 2-HR RATED WALL CONSTRUCTION
 * COMPLY WITH ALL CURRENT ADA
 STANDARDS REQUIRED BY FEDERAL
 AND LOCAL CODES

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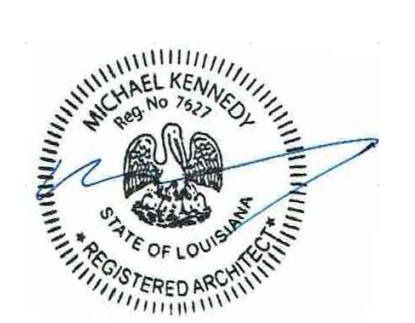
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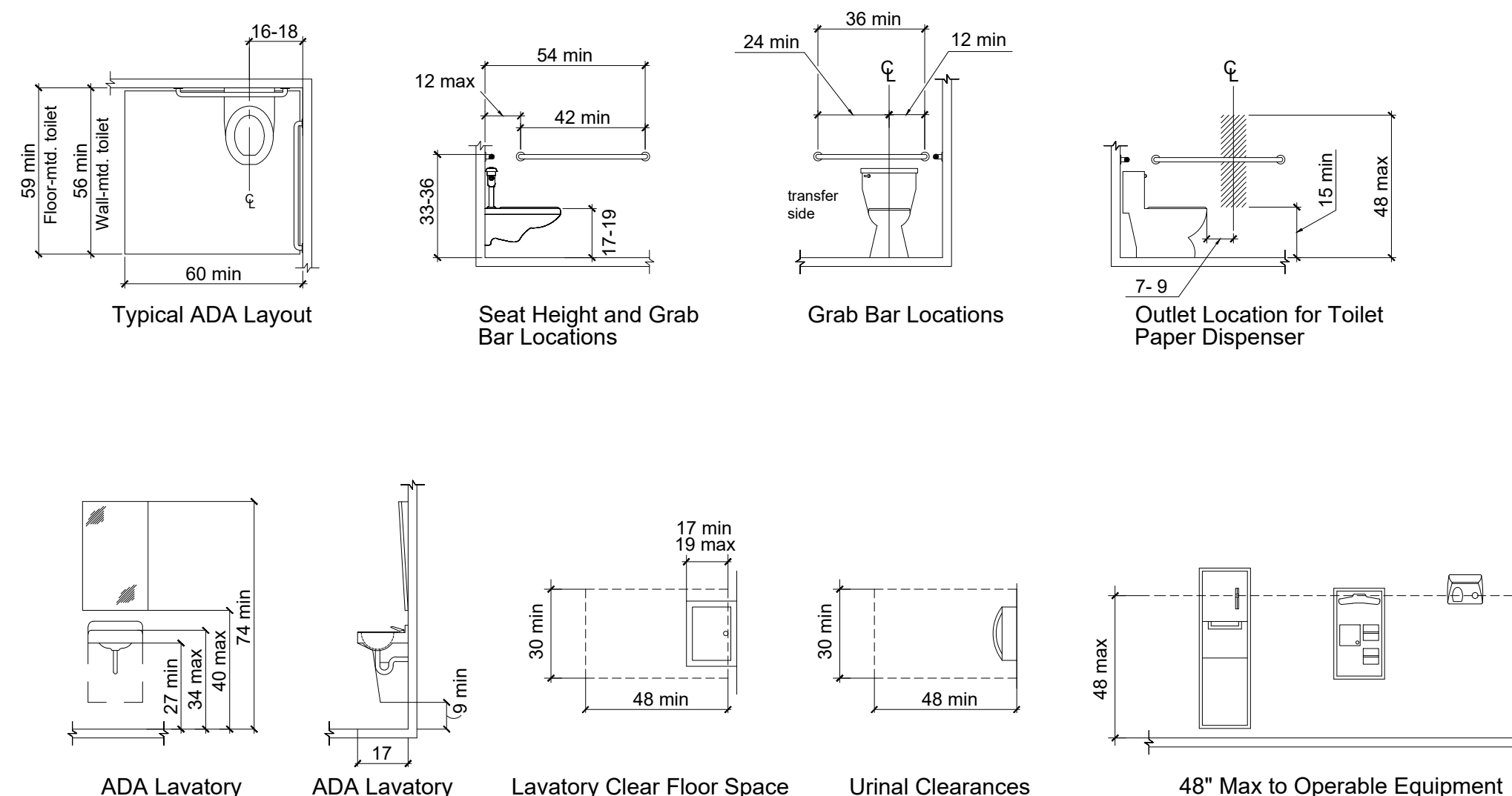
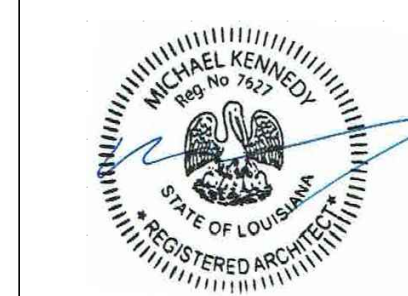
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LIFE SAFETY PLAN



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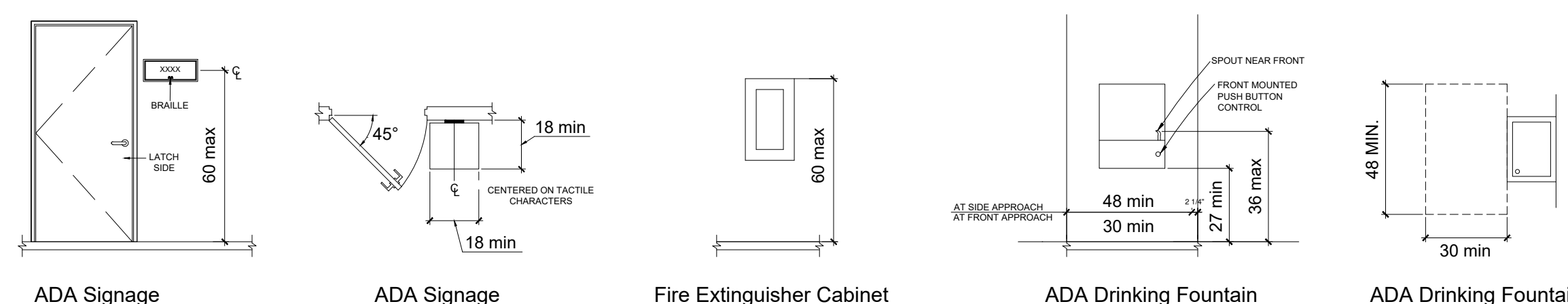
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TYPICAL ADA RESTROOM REQUIREMENTS

N.T.S. ③

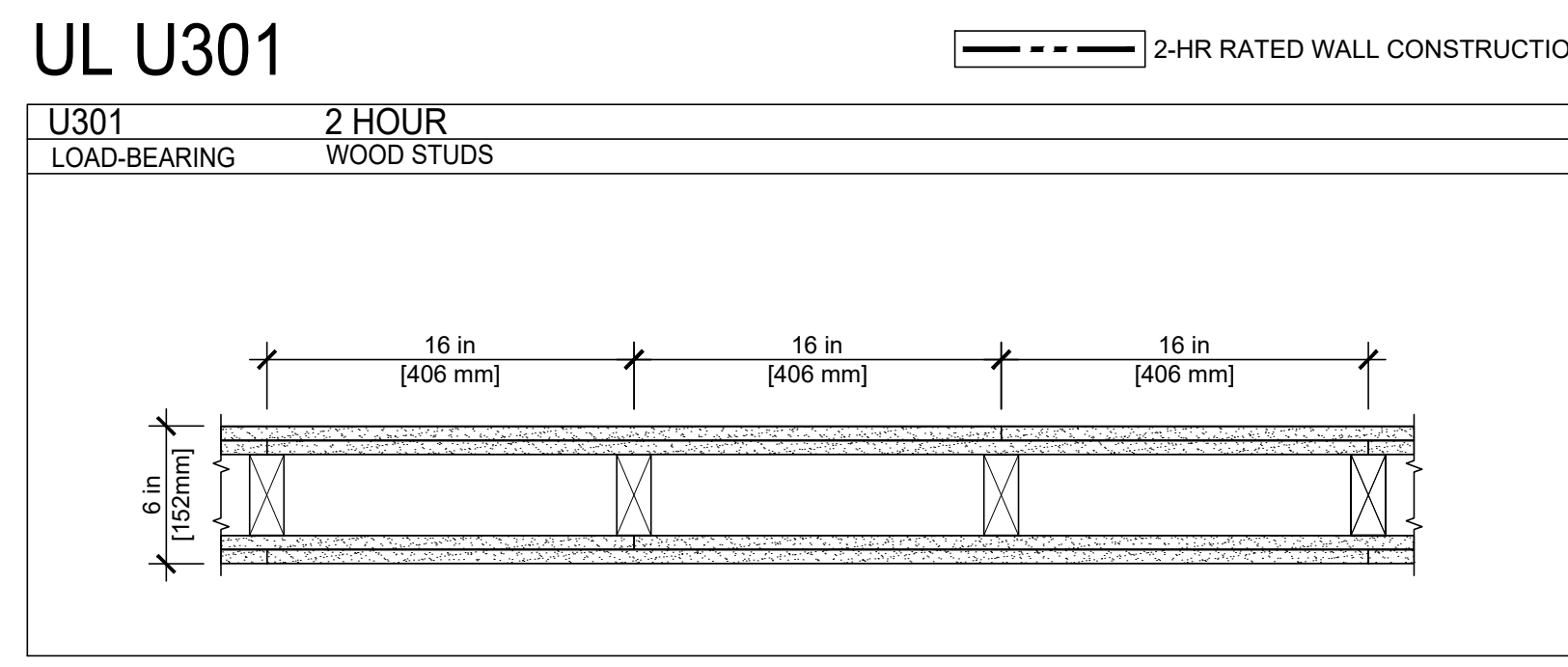


TYPICAL ADA PROJECT REQUIREMENTS

N.T.S. ②

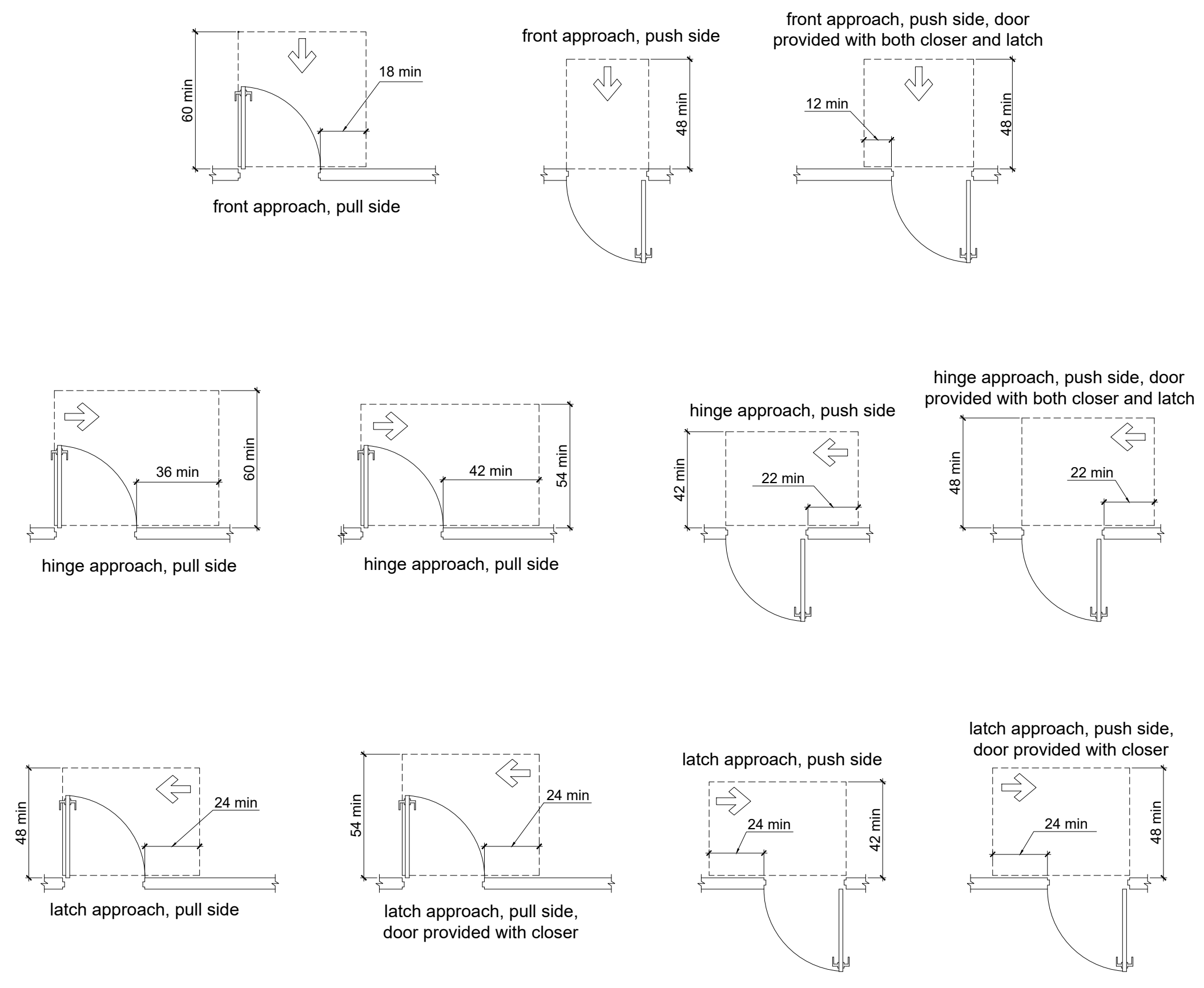
PARTITIONS: WOOD STUD (LOAD-BEARING)
 FIRE RATING: 2 HOUR
 STC: 52
 SOUND TEST: N/A
 SYSTEM THICKNESS: 6"

ASSEMBLY OPTIONS:
 GYPSUM BOARD: TWO LAYERS OF 5/8 IN. (TYPE "X") THICK GYPSUM BOARD APPLIED HORIZONTALLY OR VERTICALLY.
 WOOD STUDS: 2 IN. X 4 IN. WOOD STUDS SPACED MAX. 16 IN. O.C.
 GYPSUM BOARD: TWO LAYERS OF 5/8 IN. (TYPE "X") THICK GYPSUM BOARD APPLIED HORIZONTALLY.



UL FIREWALL CONSTRUCTION - 2HR WALL CONSTRUCTION

N.T.S. ④

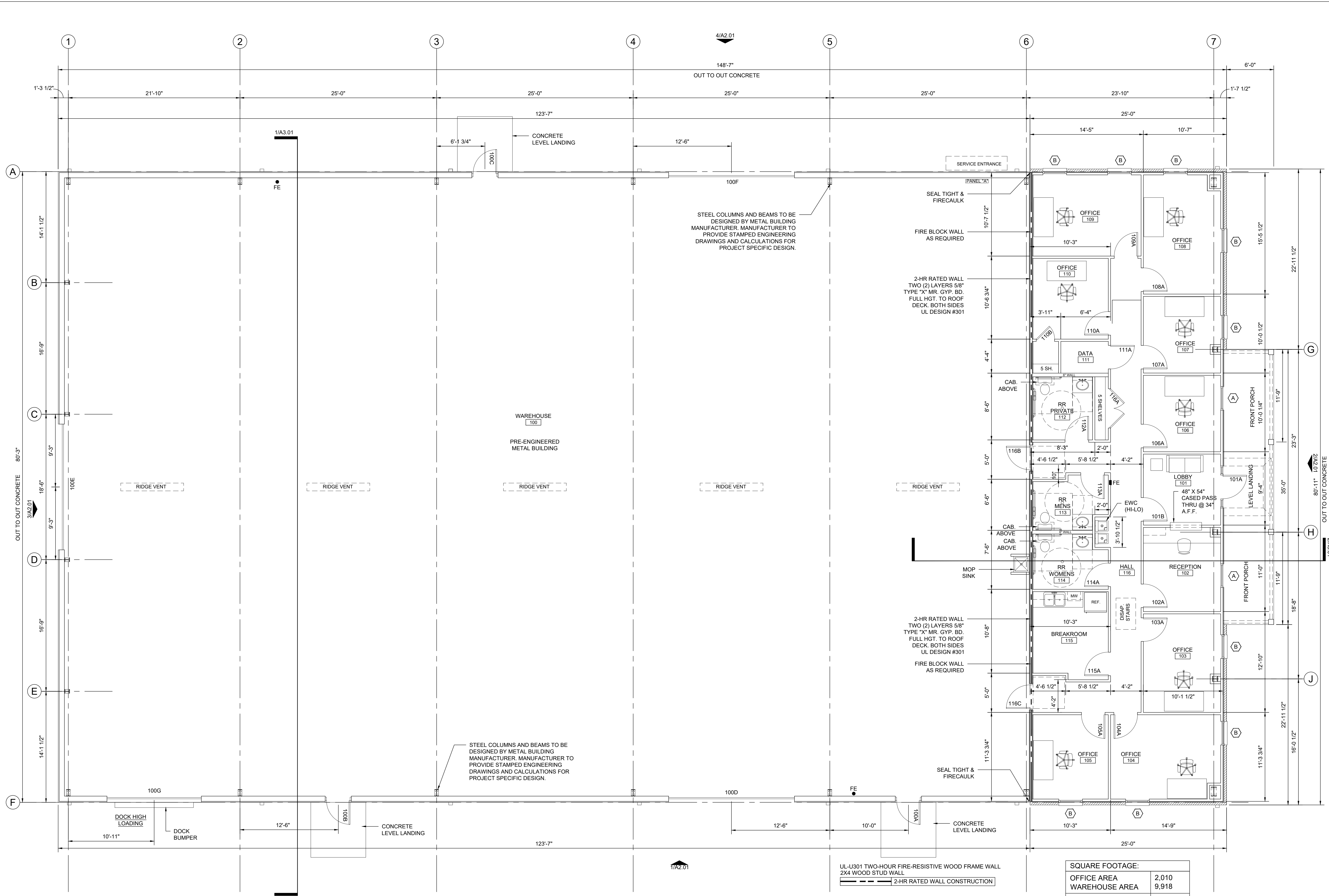
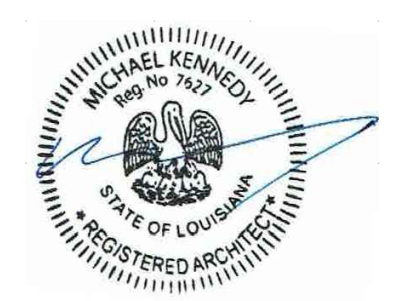


TYPICAL ADA DOOR REQUIREMENTS

N.T.S. ①

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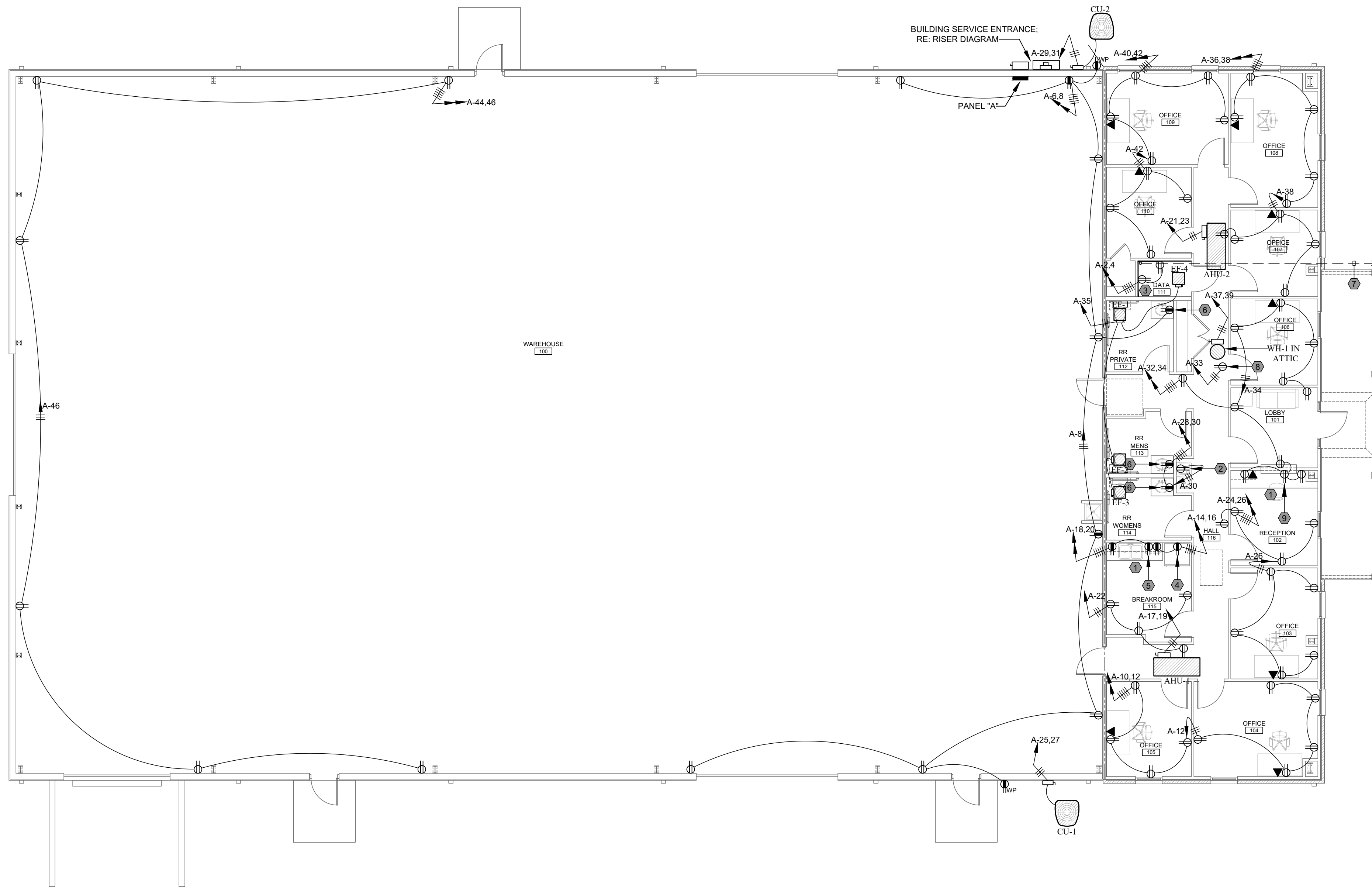


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BUILDING AREA	11,928
FRONT PORCH	220
TOTAL AREA	12,148

UL-U301 TWO-HOUR FIRE-RESISTIVE WOOD FRAME WALL
 2X4 WOOD STUD WALL
 --- 2-HR RATED WALL CONSTRUCTION

- *STEEL COLUMNS AND BEAMS TO BE DESIGNED BY METAL BUILDING MANUFACTURER. MANUFACTURER TO PROVIDE STAMPED ENGINEERING DRAWINGS AND CALCULATIONS FOR PROJECT SPECIFIC DESIGN
- *METAL BUILDING MANUFACTURER TO PROVIDE DESIGN REQUIREMENTS FOR ALUMINUM GUTTER AND DOWNSPOUTS FOR SPECIFIC PROJECT
- *COMPLY WITH ALL CURRENT ADA STANDARDS REQUIRED BY FEDERAL AND LOCAL CODES
- *BUILDING MANUFACTURER TO CONFIRM BUILDING MEETS OR EXCEEDS LOCAL WIND CODES



POWER PLAN

1/8"=1'-0" ①

WATER HEATER SCHEDULE

NO.	K.W.	ELEC. SERV.
WH-1	4.5	208/1/60

HOT WATER CIRC. PUMP SCHEDULE

MARK	HP	ELECTRIC
CP-1	1/6	120/1/60

AIR COOLED CONDENSING UNIT SCHEDULE

UNIT NO.	TONS OF REFR.	COMPR. MOTOR DATA				CONDENSER DATA						UNIT WIRING DATA	
		NO. REQ'D.	VOLTS	PH. HZ.	R.L.A. EACH	L.R.A. EACH	VOLTS	PH. HZ.	NO. FANS	F.L.A. EACH	H.P. EACH	M.C.A.	MAX FUSE SIZE
CU-1	5	1 (2-STAGE)	208	1/60	28.8	152.9	208	1/60	1	5.3	-	42	70
CU-2	4	1 (2-STAGE)	208	1/60	21.2	104	208	1/60	1	5.3	-	32	50

AIR HANDLING UNIT SCHEDULE

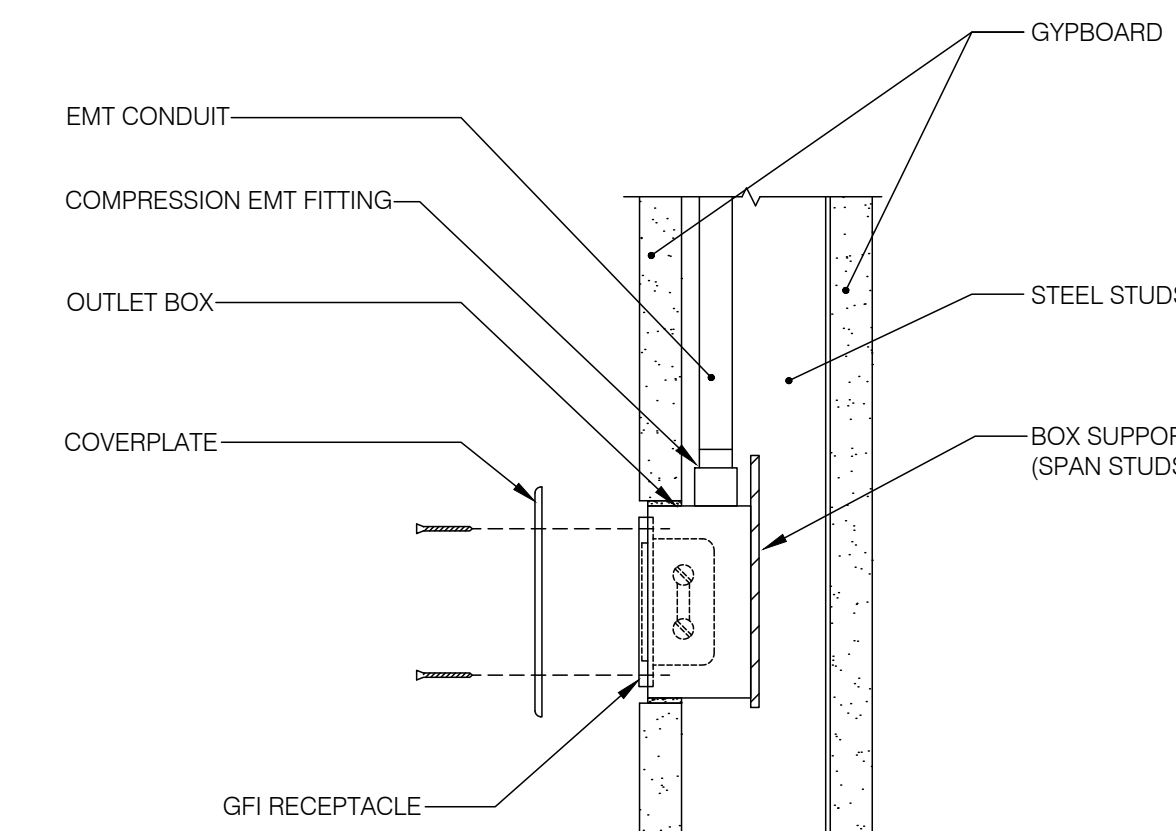
UNIT NO.	FAN DATA		MOTOR DATA		ELEC. HEAT DATA		ELECTRICAL (SINGLE POINT CONN.)		
	TOTAL C.F.M.	H.P.	VOLTS	PH. HZ.	K.W.	STAGES	ELECTRIC SERVICE	M.C.A.	M.O.P.
AHU-1	1800	3/4	208	1/60	14.4	1	208/1/60	93	100
AHU-2	1400	3/4	208	1/60	14.4	1	208/1/60	93	100

EXHAUST FAN SCHEDULE

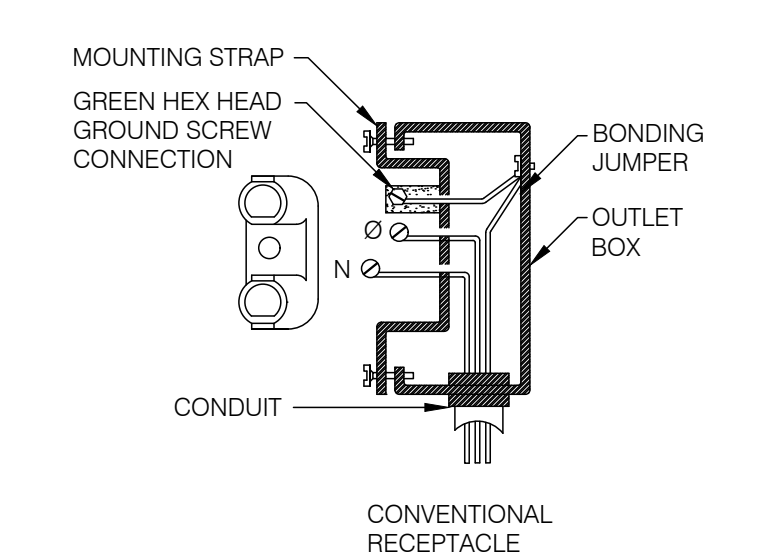
UNIT NO.	LOCATION	MOTOR DATA				CONTROLLED BY
		H.P.	WATTS	VOLTS	PH. HZ.	
EF-1,2,3	CEILING	-	14	120	1/60	OCCUPANCY SENSOR ON FACE OF EXHAUST FAN GRILLE
EF-4	CEILING	-	14	120	1/60	THERMOSTAT ON WALL

SYMBOL SCHEDULE

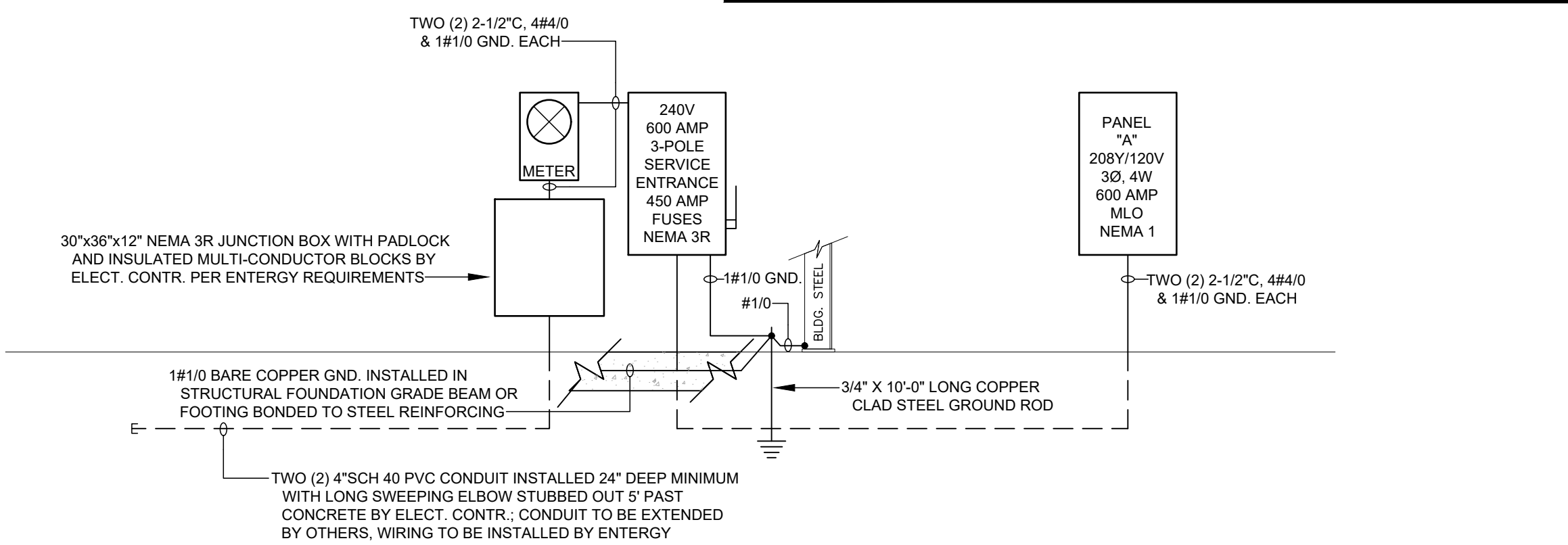
[Symbol]	LED FIXTURE; "A" DENOTES TYPE
[Symbol]	LED DOWNLIGHT; "B" DENOTES TYPE
[Symbol]	EXIT LIGHT
[Symbol]	WALL MOUNTED EXIT LIGHT
[Symbol]	WALL MOUNT EMERGENCY LIGHTING UNIT
[Symbol]	CEILING MOUNT EMERGENCY LIGHTING UNIT
[Symbol]	LINE-VOLTAGE SINGLE POLE TOGGLE SWITCH
[Symbol]	LINE-VOLTAGE 3-WAY TOGGLE SWITCH
[Symbol]	LINE-VOLTAGE WALL MOUNT OCCUPANCY SENSOR
[Symbol]	LINE-VOLTAGE CEILING MOUNT OCCUPANCY SENSOR
[Symbol]	LINE-VOLTAGE HIGH CEILING MOUNT OCCUPANCY SENSOR
[Symbol]	DUPLEX RECEPTACLE
[Symbol]	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE
[Symbol]	CONDUIT IN WALL OR CEILING; DASHES DENOTE NO. OF WIRES
[Symbol]	CONDUIT BELOW SLAB; DASHES DENOTE NO. OF WIRES
[Symbol]	HOMERUN; DASHES DENOTE NO. OF WIRES
[Symbol]	POWER PANEL
[Symbol]	FUSED SAFETY DISCONNECT SWITCH
[Symbol]	DATA OUTLET
[Symbol]	WEATHERPROOF
[Symbol]	ABOVE FINISHED FLOOR
[Symbol]	KEYNOTE



2- FLUSH MOUNT OUTLET MOUNTING DETAIL
SCALE: NOT TO SCALE



3- RECEPTACLE INSTALLATION DETAIL
SCALE: NOT TO SCALE



RISER DIAGRAM

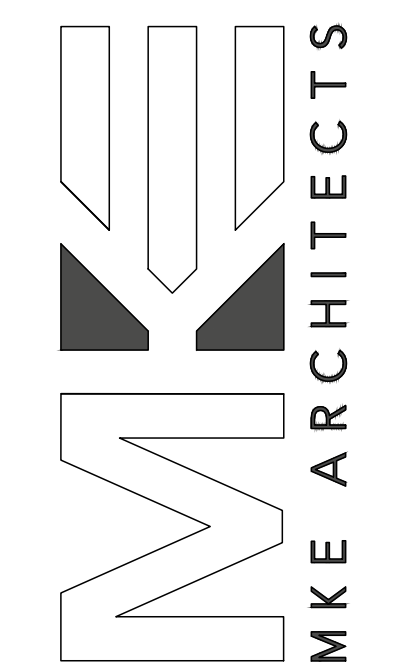
NTS ②

POWER PLAN KEYNOTES

- LOCATE DEVICE(S) ABOVE THE COUNTER AT THIS MILLWORK, UNLESS NOTED OTHERWISE
- LOCATE DUPLEX RECEPTACLE BEHIND THE EWC; COORDINATE THE EXACT LOCATION WITH THE PLUMBING CONTR. PRIOR TO ROUGH-IN.
- 3/4" X 8" HIGH PLYWOOD COMMUNICATION BACKBOARD ON THE TWO (2) WALLS; ROUTE A #6 AWG BARE COPPER GROUND ALONG BOTTOM OF BACKBOARD TO GROUND BUS IN PANEL "A".
- LOCATE DUPLEX RECEPTACLE 36" AFF FOR REFRIGERATOR.
- LOCATE DUPLEX RECEPTACLE ABOVE THE COUNTER FOR MICROWAVE.
- LOCATE DUPLEX RECEPTACLE 48" AFF.
- STUB OUT ONE (1) 2" CONDUIT PAST ALL CONCRETE FOR COMMUNICATION SERVICES INTO THE BUILDING; CONDUIT TO BE EXTENDED BY OTHERS AS DIRECTED BY THE LOCAL TEL. CO.
- LOCATE DUPLEX RECEPTACLE IN THE ATTIC FOR HOT WATER CIRCULATING PUMP.
- LOCATE DUPLEX RECEPTACLE 18" AFF.

POWER PLAN NOTES

- VERIFY THE EXACT LOCATION OF ALL DEVICES WITH THE ARCHITECT PRIOR TO ROUGH-IN.
- VERIFY THE EXACT LOCATION, VOLTAGE, PHASE, AMPERAGE, ETC. OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH THE MECH. CONTR. AND PLUMBING CONTR. PRIOR TO ROUGH-IN.
- ROUTE A 1" CONDUIT FROM EACH WALL MOUNTED VOICE/DATA OUTLET TO AN ACCESSIBLE LOCATION ABOVE THE CEILING.
- THE COUNTER TOP SHALL BE DRILLED AND GROMMETS INSTALLED BY OTHERS WHERE DEVICES ARE SHOWN TO BE INSTALLED INSIDE OR BELOW THE MILLWORK.
- ELECT. CONTR. SHALL COORDINATE THE PLACEMENT OF ALL OWNER FURNISHED EQUIPMENT WITH THE OWNER'S REP AS WELL AS RECEPTACLE CONFIGURATIONS PRIOR TO ROUGH-IN; ALL RECEPTACLES SHALL MATCH THE OWNER'S EQUIPMENT PLUGS.
- EACH 120 VOLT CIRCUIT SHALL HAVE ITS OWN SEPARATE NEUTRAL; SHARING OF NEUTRAL CONDUCTORS IS NOT ALLOWED.
- ALL DEVICES SHALL BE LOCATED 18" AFF UNLESS NOTED OTHERWISE.
- COORDINATE THE EXACT LOCATION OF THE COND. UNITS WITH THE ELECTRICAL SERVICE MAINTAINING PROPER CLEARANCES.



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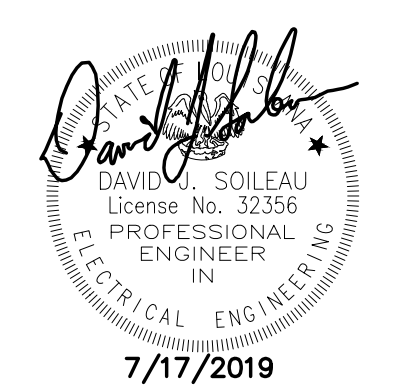
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CONSTRUCTION DOCUMENTS



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DAVID J. SOILEAU, P.E. LA #32356
MERGE ENGINEERING, L.L.C. FIRM #5793

E1.00

STRUCTURAL SHEET INDEX:

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- S1.01 FOUNDATION PLAN
- S2.01 FOUNDATION DETAILS

ABBREVIATIONS:

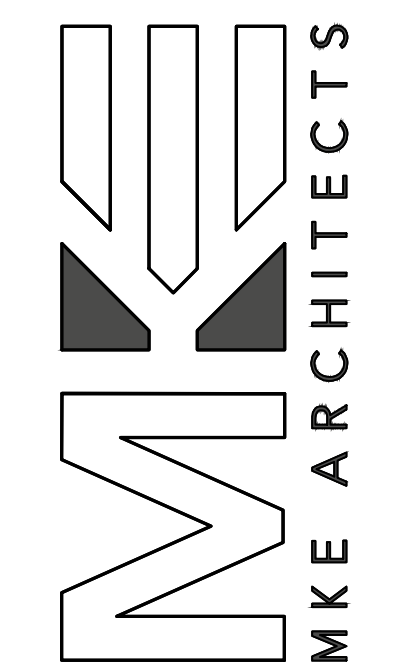
A.F.F.	ABOVE FINISHED FLOOR	LONGIT.	LONGITUDINAL
ALT.	ALTERNATE	M	BENDING MOMENT FOOT KIPS
ALT. SP.	ALTERNATE SPACING	MAX.	MAXIMUM
APPROX.	APPROXIMATE	MFG.	MANUFACTURER
B.F.F.	BELOW FINISHED FLOOR	MIN.	MINIMUM
BL	BOTTOM LAYER	N.T.S.	NOT TO SCALE
BLDG.	BUILDING	O.C.	ON CENTER
BOT.	BOTTOM	O.D.	OUTSIDE DIAMETER
BTWN.	BETWEEN	OPT.	OPTIONAL
C	CENTER	PLT.	PLATE
CIP	CAST IN PLACE	P.P.C.	PRECAST PRESTRESSED CONCRETE
CJ	CONSTRUCTION JOINT	PSF	POUNDS PER SQUARE FOOT
CL (CLR)	CLEAR COVER	PSI	POUNDS PER SQUARE INCH
C/L (C)	CENTER LINE	REINF.	REINFORCEMENT
CONC.	CONCRETE	RE (REF.)	REFERENCE
CONSTR.	CONSTRUCTION	REQ'D	REQUIRED
CONT.	CONTINUOUS	SPC'S	SPACES
CTRS.	CENTERS	SQ.	SQUARE
DIA. (Ø)	DIAMETER	S.S.	STAINLESS STEEL
E.J.	EXPANSION JOINT	STD. HK.	STANDARD HOOK
(ELEV.)	ELEVATION	T.O.S.	TOP OF STEEL
EQ	EQUAL	THK.	THICKNESS
ES	EQUALLY SPACED	TRANSV.	TRANSVERSE
EXIST.	EXISTING	TYP.	TYPICAL
F.F.	FINISHED FLOOR	U.N.O.	UNLESS OTHERWISE NOTED
FLNG	FLANGE	V	SHEAR IN KIPS
GR.	MATERIAL GRADE	W.P.	WORK POINT
H.S.	HIGH STRENGTH	WWF	WELDED WIRE FABRIC
I.D.	INSIDE DIAMETER	1V TO 3H	1 VERTICAL TO 3 HORIZONTAL

SYMBOL LEGEND:

DETAIL AREA (Circle with Ref# and Sh#) — DETAIL NUM.
DETAIL SHEET (Circle with Ref# and Sh#) — DETAIL SHEET
CUT DIRECTION (Arrow with Ref# and Sh#)
SECTION DESIGNATOR (A | SECTION) — SECTION DESIGNATOR
DRAWING SCALE (SCALE: 3/4" = 1' - 0") — DRAWING SCALE
NOTE CALLOUT (Symbol with Ref# and Sh#)
REFERENCE SCALES (SCALE: 3/8" = 1', 0, 1, 2, 3, 4, 5, 6) — REFERENCE SCALES

EXISTING/PREVIOUS (GRAYSCALE)
NEW WORK (BOLD)
TRUE NORTH
ELEVATION (EL. "XX" A.F.F.) — ELEVATION
REVISION NUMBER
REVISION AREA
FRAME LINE
WWF
REBAR

REINFORCING SIZE (#8)
BEAM/COLUMN SIZE (12x20)
SIZE, # OF STUDS, CAMBER
REACTION (13K (V), W12X30 (30T), 0+12", 0+12", 230K (V), 0+12", 230K (V)) — REACTION — AXIAL
TOP OF STEEL DEVIATION
 * IF NONE, USE CONNECTIONS DETAILED
 ** IF NONE, NON-COMPOSITE BEAM
 *** IF NONE, NO CAMBER
 **** IF NONE, USE T.O.S. NOTED
 ***** IF NONE, NO AXIAL (-COMPRESSION, + TENSION)



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Project Notes:

Project Title:
COPPERHEAD BUILDING, NO.2

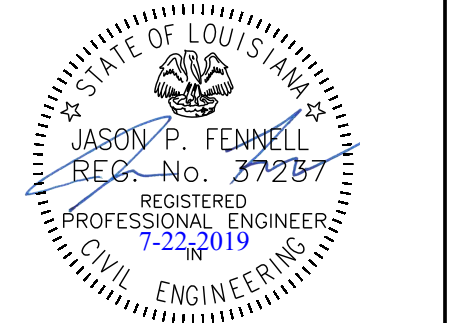
Project Location:
 35030 HWY. 30
 GEISMAR, ASCENSION PARISH, LA

Sheet Revisions:

Sheet Name:

General Notes & Index

Sea



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19-11

JULY 17, 2019

CONSTRUCTION DOCUMENTS

S0.01

GENERAL

- SEE ARCHITECTURAL DOCUMENTS FOR FINAL DIMENSIONS. ARCHITECTURAL DOCUMENTS GOVERN AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL DIMENSIONS IN THE FIELD BEFORE CONSTRUCTION BEGINS.
- ALL DIMENSIONS, DISCREPANCIES, OR CONFLICTS BETWEEN CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED. THE CONTRACTOR SHALL VERIFY ALL MECHANICAL, PLUMBING, AND MISCELLANEOUS OPENINGS AND ALL SLEEVES, BOLTS, AND OTHER RELATED ITEMS. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT ARE LOCATED IN OR ON THE STRUCTURAL MEMBERS.
- THESE PLANS ARE NOT INTENDED TO CONVEY ANY PARTICULAR CONSTRUCTION SEQUENCE OR PROCEDURE AND REPRESENT THE FINISHED STRUCTURE. THE RESPECTIVE BIDDER AND/OR CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ADEQUATE MEANS AND MEASURES TO ENSURE THE STABILITY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION. THESE SHALL INCLUDE, BUT ARE NOT LIMITED TO: NECESSARY SHORING, SHEETING, TEMPORARY BRACING, DEWATERING, ETC. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT WHEN PLACED ON FRAMED FLOORS OR ROOFS. THE CONSTRUCTION MATERIAL LOAD SHALL NOT EXCEED THE DESIGN LIVE LOADS. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE THE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.
- OBSERVATIONS, VISITS, OR VERBAL COMMUNICATION DURING CONSTRUCTION BY A REPRESENTATIVE OF THE STRUCTURAL ENGINEER SHALL NEITHER BE CONSTRUED AS AN INSPECTION NOR APPROVAL OF CONSTRUCTION UNLESS STATED SO IN WRITING BY THE ENGINEER. OBSERVATION VISITS DO NOT INCLUDE INSPECTION OF CONSTRUCTION MEANS AND METHODS AND ARE NOT CONTINUOUS AND DETAILED INSPECTION SERVICES WHICH ARE TO BE PERFORMED BY OTHERS. OBSERVATIONS ARE PERFORMED SOLELY FOR THE PURPOSE OF DETERMINING IF THE CONTRACTOR UNDERSTANDS DESIGN INTENT SHOWN IN CONTRACT DRAWINGS. OBSERVATIONS DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND ARE NOT TO BE CONSTRUED AS SUPERVISION OR VERIFICATION OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AND PROTECTION IN AND AROUND THE JOB SITE AND/OR ADJACENT PROPERTY.

STRUCTURAL DESIGN CRITERIA

- DESIGN CODES:
 - a. INTERNATIONAL BUILDING CODE (IBC), 2015 EDITION. ALL REFERENCED CODES AND SPECIFICATIONS NOTED SHALL BE THE LATEST APPROVED EDITIONS AND REVISIONS BY THE GOVERNMENTAL AGENCY HAVING JURISDICTION OVER THIS PROJECT.
- LIVE LOADS:
 - a. FLOOR LIVE LOAD = 60 PSF (OFFICE), 125 PSF (WAREHOUSE)

CONSTRUCTION PROCEDURE

- THE STRUCTURE SHALL BE ADEQUATELY BRACED AND SHORED DURING ERECTION AGAINST WIND AND ERECTION LOADS. STRUCTURAL MEMBERS ARE DESIGNED FOR "IN PLACE" LOADS. COMPLY WITH ALL APPLICABLE CITY, PARISH, STATE, AND FEDERAL LAWS, INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ADOPTED PURSUANT THERETO.
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE NOTED, THEY DO NOT INDICATE THE MEANS OR METHOD OF CONSTRUCTION. PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKERS, OR OTHERS PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, SHORING FOR EARTH BANKS, FORMS, SCAFFOLDING, PLANKING, SAFETY NETS, SUPPORT AND BRACING FOR CRANES AND GIB POLES.
- ENGAGE PROPERLY QUALIFIED PERSONS TO DETERMINE WHERE AND HOW TEMPORARY PRECAUTIONARY MEASURES SHALL BE USED AND INSPECT SAME IN THE FIELD. OBSERVATION VISITS TO THE SITE BY ENGINEER'S FIELD REPRESENTATIVE SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
- SUPERVISE AND DIRECT THE WORK SO AS TO MAINTAIN SOLE RESPONSIBILITY FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. AS A PART OF THIS RESPONSIBILITY, RETAIN THE SERVICES OF A LICENSED STRUCTURAL ENGINEER TO DESIGN AND SUPERVISE ANY SCAFFOLDING FOR WORKERS, AND ALL SHORING OF FORMS AND ELEMENTS OF THE CONSTRUCTION.
- THESE DRAWINGS DO NOT INCLUDE EVERY COMPONENT AND PROCEDURE NECESSARY FOR CONSTRUCTION SAFETY WHICH IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AND PROTECTION IN AND AROUND THE JOB SITE AND ADJACENT PROPERTY.

CONSTRUCTION COORDINATION

- PLACEMENT OF ANCHOR BOLTS, PIPE SLEEVES, PADS, AND OPENINGS FOR EQUIPMENT SHALL BE COORDINATED BETWEEN THE GENERAL CONTRACTOR AND THE OTHER SUBCONTRACTORS.
- ALL CORE DRILLING SHALL BE DONE UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR. NO REINFORCING STEEL SHALL BE CUT. VERIFY LOCATION OF REINFORCING STEEL BEFORE CORE DRILLING. THERE SHALL NOT BE ANY CORE DRILLING THROUGH BEAMS OR COLUMNS. MAXIMUM CORE HOLE THROUGH SLABS SHALL BE PIPE DIAMETER PLUS 1".
- SEE THE ARCHITECTURAL DRAWINGS FOR GRADES AND REFERENCE ELEVATIONS. COORDINATE THE TIMELY PLACEMENT OF PLUMBING, ELECTRICAL, AND OTHER WORK LOCATED UNDER AND WITHIN THE FOUNDATION AND STRUCTURE. CONTRACTOR SHALL VERIFY ALL OPENINGS IN SLAB. DO NOT SCALE DRAWINGS TO DETERMINE DIMENSIONS. USE ONLY THE NUMERICAL DIMENSIONS SHOWN.

ANCHOR BOLTS AND MISCELLANEOUS

- UNLESS OTHERWISE NOTED IN THE PLANS, ALL SOLE PLATE ANCHOR BOLTS SHALL BE GALVANIZED AND AS DETAILED IN THE PLANS. SPECIALTY ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- PROVIDE SETTING TEMPLATES TO POSITION ANCHOR BOLTS PRIOR TO PLACING CONCRETE. ACCURATELY POSITION BOLTS TO ENSURE CORRECT VERTICAL AND HORIZONTAL LOCATION TO MATCH STEEL AND BOLT PATTERN.
- KEYWAY DIMENSIONS: DEPTH 3/4"; WIDTH ONE-THIRD THAT OF MEMBER UNLESS SHOWN OTHERWISE. ALL CONSTRUCTION JOINTS SHALL HAVE KEYWAYS UNLESS SHOWN OTHERWISE.

FOUNDATION PREPARATION AND EARTHWORK

- SEE GEOTECHNICAL/SUBSURFACE INVESTIGATIVE REPORT BY GULF SOUTH ENGINEERING AND TESTING, FILE NO: 18-037 DATED MAY 31, 2018, FOR INFORMATION REGARDING SITE PREPARATION, ALLOWABLE BEARING CAPACITY, AND OTHER GEOTECHNICAL CRITERIA. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE WHETHER OR NOT ADDITIONAL GEOTECHNICAL INFORMATION IS REQUIRED AND TO PROVIDE SUCH INFORMATION AS HE DEEMS NECESSARY.
- THE DESIGN BEARING CAPACITIES ARE AS FOLLOWS:

GRADE BEAMS:	1300 PSF
SPREAD FOOTINGS:	1500 PSF
- THE CONTRACTOR SHALL PROVIDE FOR PROPER DEWATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER, SEEPAGE, ETC.
- ALL ABANDONED UTILITIES, FOOTINGS, ETC. THAT INTERFERE WITH THE NEW CONSTRUCTION SHALL BE REMOVED. NOTIFY THE STRUCTURAL ENGINEER SHOULD ANY FOUNDATIONS FOR EXISTING STRUCTURES BE ENCOUNTERED THAT ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- FOOTINGS, GRADE BEAMS, SLABS, AND THICKENED SLAB SECTIONS SHALL BE PLACED TO THE DIMENSIONS SHOWN ON THE DRAWINGS AND OBSERVED FOR QUALITY ASSURANCE PRIOR TO PLACING CONCRETE AND REINFORCING. SHOULD SOIL ENCOUNTERED NOT BE APPROVED, DESIGNS, EXCAVATIONS, AND SITE WORK WILL BE ALTERED BY CHANGE ORDER. THE INSPECTION OF FOUNDATION FOOTINGS AND REINFORCEMENT AND THE PLACEMENT OF CONCRETE SHALL PROCEED IMMEDIATELY FOLLOWING APPROVAL. IF FOOTING EXCAVATIONS ARE TO REMAIN OPEN FOR MORE THAN ONE DAY, THE CONTRACTOR SHALL TAKE MEASURES TO REDUCE MOISTURE ENTRY OR EVAPORATION.
- ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN THE BUILDING PERIMETER SHALL BE MECHANICALLY COMPACTED IN LAYERS, TO THE APPROVAL OF THE SPECIAL INSPECTOR.
- ALL TOPSOIL AND ORGANIC MATERIALS, INCLUDING TREES AND LARGE ROOTS, AND ANY DELETERIOUS MATERIALS SHALL BE STRIPPED FROM THE PROJECT AREA AND REPLACED WITH STRUCTURAL FILL.
- FILL SHALL BE AS DESCRIBED IN THE GEOTECHNICAL REPORT.

CONCRETE REQUIREMENTS

- ALL ASPECTS OF WORK PERTAINING TO CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318 AND ACI 301 LATEST EDITIONS, EXCEPT AS NOTED.
- CONCRETE MIX DESIGNS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW.
- CONCRETE COMPRESSIVE STRENGTH SHALL BE AS FOLLOWS AT 28 DAYS AND SHALL HAVE A MAXIMUM SLUMP OF 8" FOR CONCRETE WITH A VERIFIED SLUMP OF 2-4" BEFORE ADDING WATER-REDUCING OR PLASTICIZING ADMIXTURE. MAX AIR ENTRAINMENT = 5.5% ±1.5% (U.N.O.).

SLABS, FOOTINGS:	4000 PSI
------------------	----------
- CONCRETE IN THE FOUNDATION SHALL NOT CONTAIN CALCIUM CHLORIDE OR OTHER CORROSIVE ADMIXTURES.
- PORTLAND CEMENT SHALL CONFORM TO ASTM C150 TYPE II
- WATER SHALL BE CLEAN, POTABLE AND FREE FROM INJURIOUS AMOUNTS OF ACID, ALKALI, OR ORGANIC MATERIAL.
- CONCRETE AGGREGATES SHALL CONFORM TO THE SPECIFICATIONS OF ASTM C-33 AND SHALL CONFORM TO THE FOLLOWING MAXIMUM DIAMETERS:

FOUNDATION:	1.5" DIAMETER
-------------	---------------
- CONCRETE FLOORS SHALL BE FINISHED IN ACCORDANCE WITH ACI 301 FOR FLOOR FLATNESS AND FLOOR LEVELNESS WITHIN 48 HOURS AFTER SLAB INSTALLATION IN ACCORDANCE WITH ASTM E-1195. TOLERANCES SHALL BE AS FOLLOWS:

EXPOSED TO VIEW & FOOT TRAFFIC:	F(F) 20, F(L) 15
---------------------------------	------------------
- MOISTURE CONTROL BENEATH THE FOUNDATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL CONSIST OF SAND OR WASHED GRAVEL FILL, 10 MIL POLYETHYLENE VAPOR BARRIER, ETC. AS REQUIRED BY GOVERNING CODES AND LOCAL PRACTICES.
- EXPOSED CONCRETE CORNER CHAMFER: 3/4" UNLESS SHOWN OTHERWISE.
- ALL METAL FABRICATIONS EMBEDDED IN CONCRETE, OTHER THAN REINFORCING, STRUCTURAL FRAMING, AND ANCHOR BOLTS, SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 AND ASTM A386 AS APPLICABLE.
- NON-SHRINK GROUT UNDER BASE PLATES TO BE SAME COMPRESSIVE STRENGTH AS SUPPORTING CONCRETE.
- CONCRETE PLACEMENT FOR EACH FOUNDATION TYPE SHALL BE POURED MONOLITHICALLY WITH NO COLD JOINTS.

DEFORMED STEEL AND WELDED WIRE FABRIC

- ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318 LATEST EDITION) AND THE MANUAL FOR STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION BY CRSI (UNLESS OTHERWISE NOTED).
- DEFORMED REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.
- LAP SPLICES SHALL BE 90 BAR DIAMETERS FOR TOP BARS AND 70 BAR DIAMETERS FOR ALL OTHER BARS. WELDING OF REINFORCING IS NOT PERMITTED.
- ALL REINFORCING BAR BENDS SHALL BE MADE COLD AND IN ACCORDANCE WITH THE STANDARD HOOK REQUIREMENTS OF ACI 318.
- REINFORCING DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME NUMBER, SIZE, SPACING AND GRADE AS THE SPECIFIED VERTICAL REINFORCING.
- ALL REINFORCING BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION OCCURS.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- MINIMUM LAP OF WELDED WIRE FABRIC SHALL BE 6 INCHES OR ONE FULL MESH AND ONE HALF WHICH EVER IS GREATER.
- PROVIDE CONTINUOUS REINFORCING TOP AND BOTTOM OF GRADE BEAMS AND AROUND CORNERS OF GRADE BEAMS IN ACCORDANCE WITH THE DETAILS PROVIDED.

REBAR LAP SPLICE REQUIREMENTS (MIN.)	
LOCATION	FOUNDATIONS
BAR	4000 PSI
#3	15"
#4	19"
#5	24"
#6	29"
#7	42"
#8	48"

METAL BUILDING ANCHOR ROD SCHEDULE		
ANCHOR Ø	ANCHOR EMBED.	ANCHOR PROJECTION
1/2"	6"	PER MTL. BLDG. PROVIDER
3/8"	6"	PER MTL. BLDG. PROVIDER
3/4"	8"	PER MTL. BLDG. PROVIDER

ANCHOR ROD NOTES:
 REFER TO METAL BUILDING PROVIDER DRAWINGS FOR ANCHOR ROD MATERIAL, ARRANGEMENT, AND PLACEMENT LOCATIONS.
 ANCHOR RODS SHALL BE HEADED.

SPLICE NOTES:
 LAP SPLICE LENGTHS ABOVE APPLY TO ALL REINFORCING BARS FOR THIS PROJECT, UNLESS SPECIFICALLY NOTED OTHERWISE IN THESE PLANS.
 ALL LAP SPLICES PROVIDED ABOVE ARE NORMAL WEIGHT CONCRETE AND GRADE 60 REINFORCING BARS IN TENSION. SPLICES FOR COLUMN AND SLAB BARS ARE BASED ON A MINIMUM OF 1" CLEAR COVER.
 LAP SPLICE LENGTHS PROVIDED IN THIS TABLE ARE BASED ON ACI 318-11, 12.2, AND 12.15.

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Project Notes:

Project Title:
**COPPERHEAD
BUILDING, NO.2**

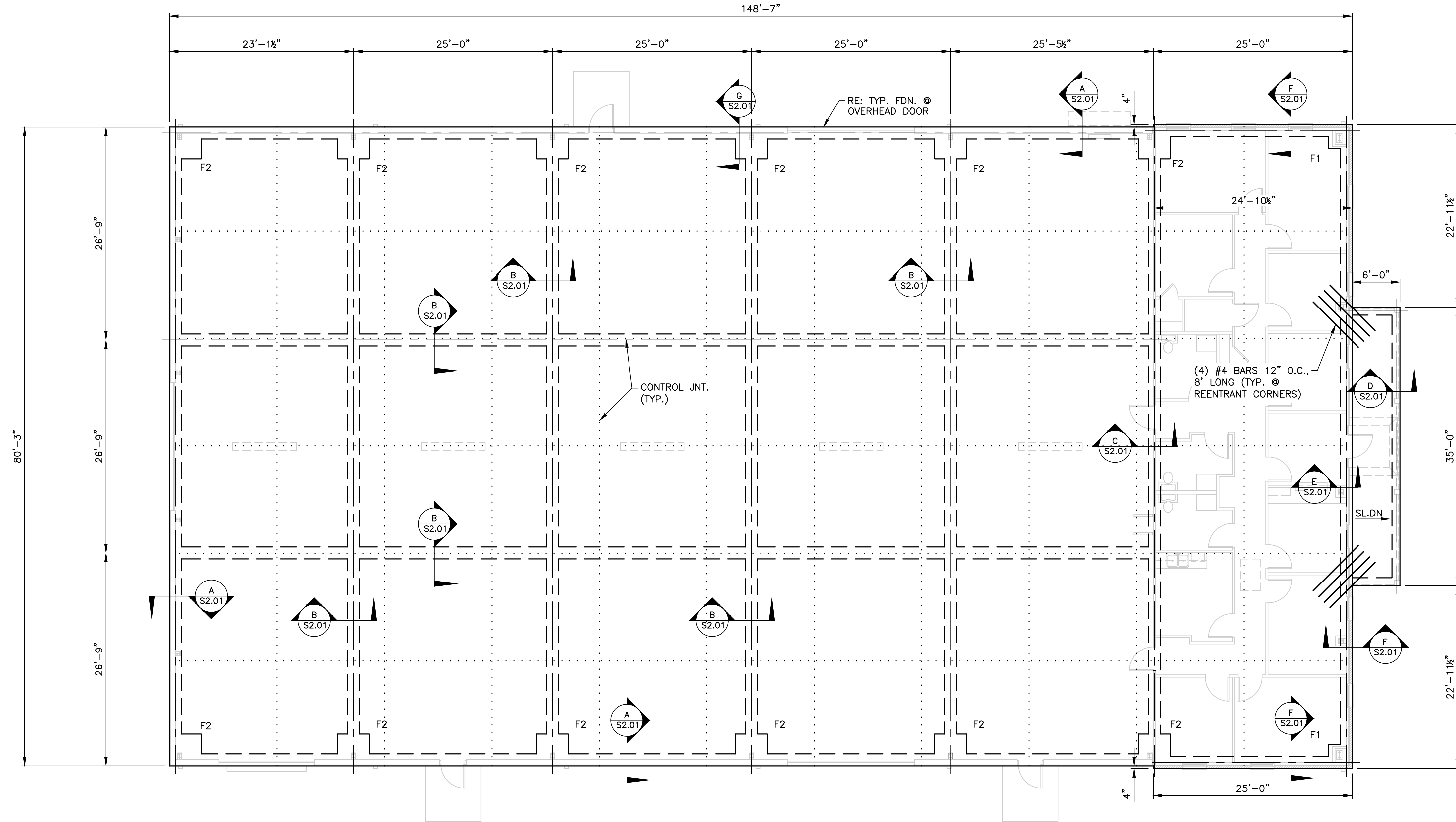
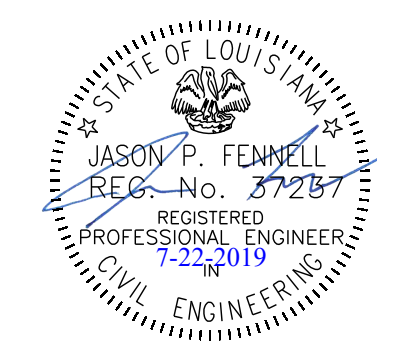
Project Location:
35030 HWY. 30
GEISMAR, ASCENSION PARISH, LA

Sheet Revisions:

Sheet Name:

Foundation Plan

Sea



FOOTING SCHEDULE		
FOOTING	SIZE	REINFORCEMENT
F1	3'-0"x3'-0"x1'-6"	(6)#5 E.W. BOTT.
F2	4'-0"x4'-0"x1'-6"	(7)#5 E.W. BOTT.

FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

NOTES:

REFER TO ARCHITECTURAL SHEETS FOR ADDITIONAL DIMENSIONS NOT SHOWN.

CONCRETE COVER SHALL BE 3" ALONG BOTTOM AND SIDES OF GRADE BEAMS AND FOOTINGS, 1" ALONG TOP OF SLAB, AND 1/2" ELSEWHERE.

SLOPE FLOORS TO DRAIN. REFER TO ARCHITECTURAL DRAWINGS FOR DRAIN LOCATIONS.

ALL EXPOSED EXTERIOR FOUNDATION SHALL HAVE A SURFACE FINISH 2.0 UNLESS NOTED OTHERWISE.

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KEYNOTES:

- (A) 10 MIL VAPOR BARRIER
- (B) 4" GRAVEL OR SAND
- (C) WWR4X4 - W4XW4 (SEE NOTES BELOW)
- (D) #5 BARS
- (E) #5 BARS (FIELD BEND AT CHANGES IN GRADE BEAM DEPTH)
- (F) #3 @ 24" O.C. (VARY WITH DEPTH OF GRADE BEAM)
- (G) #3 @ 36" O.C.
- (H) (2) #4 BARS
- (I) WWR6X6 - W6XW6 (SEE NOTES BELOW)
- (J) COLUMN (SEE PLANS BY METAL BUILDING MANUFACTURER)
- (K) OPTIONAL CONST. JNT. LOCATION

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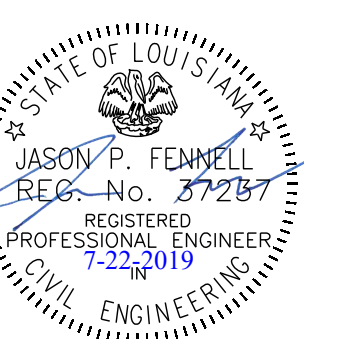
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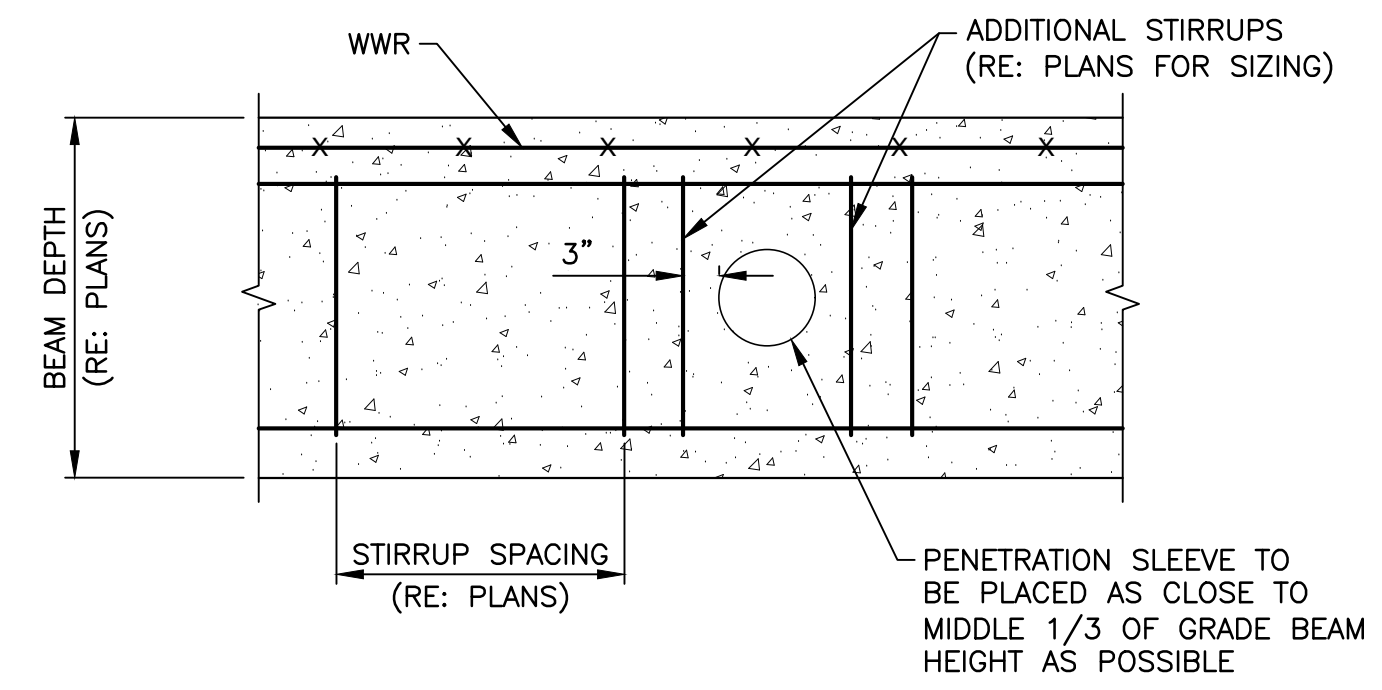
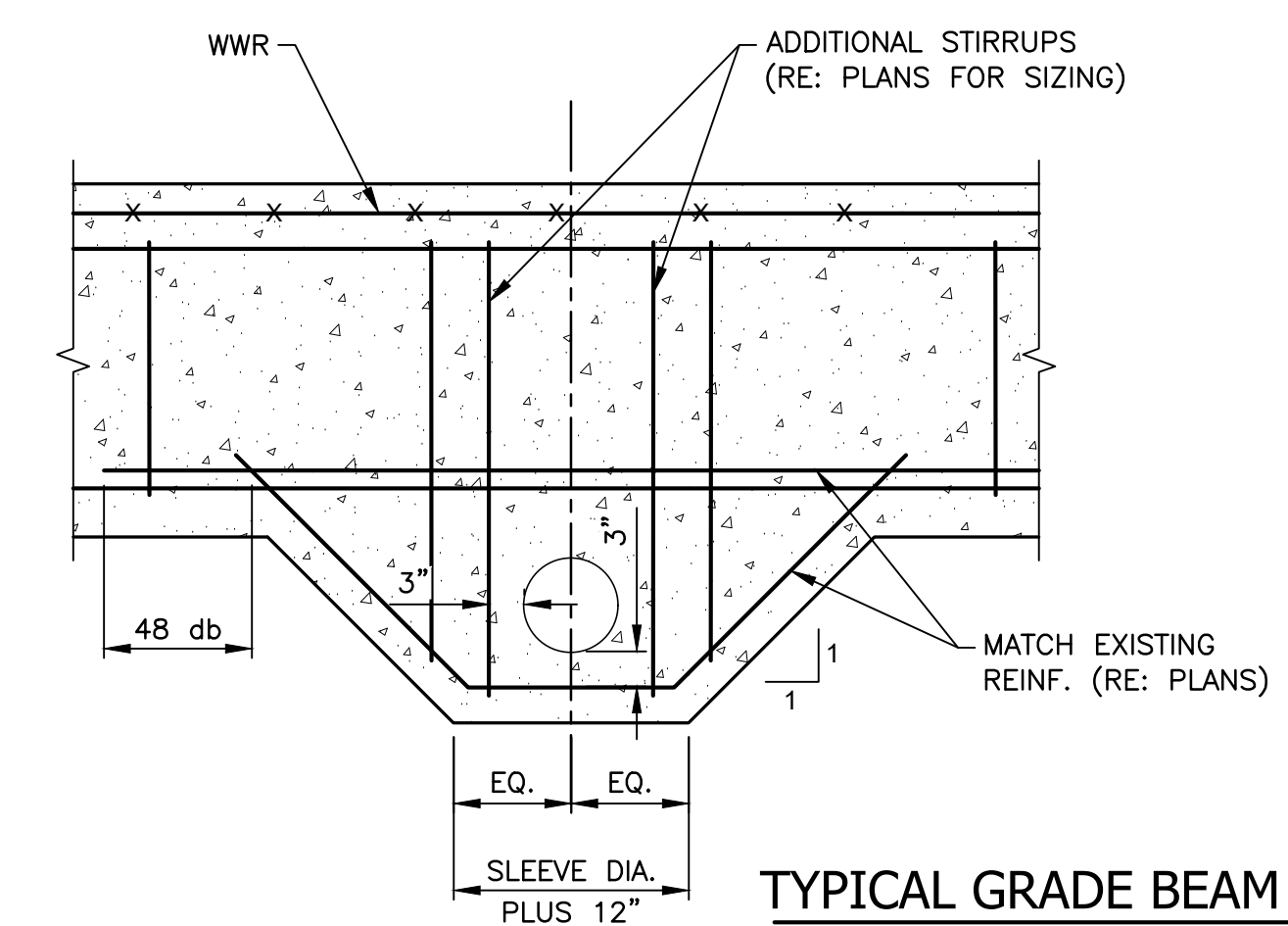
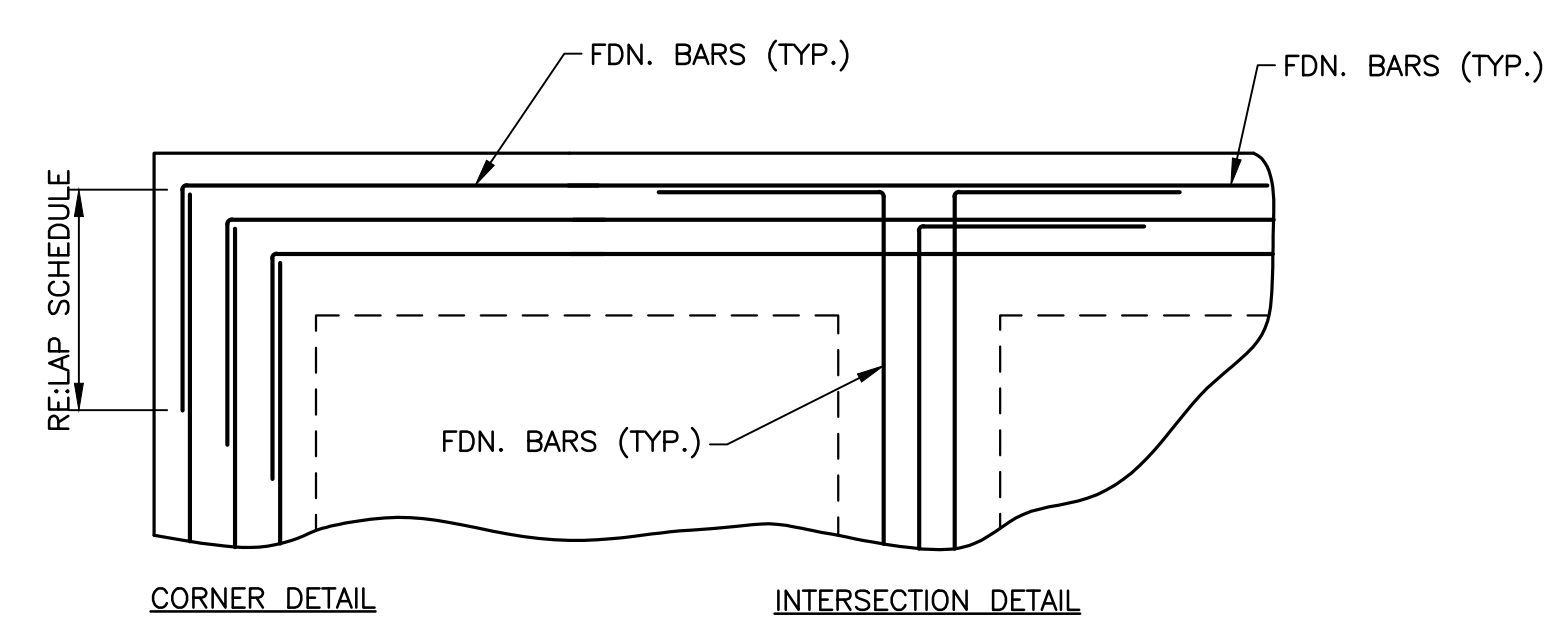
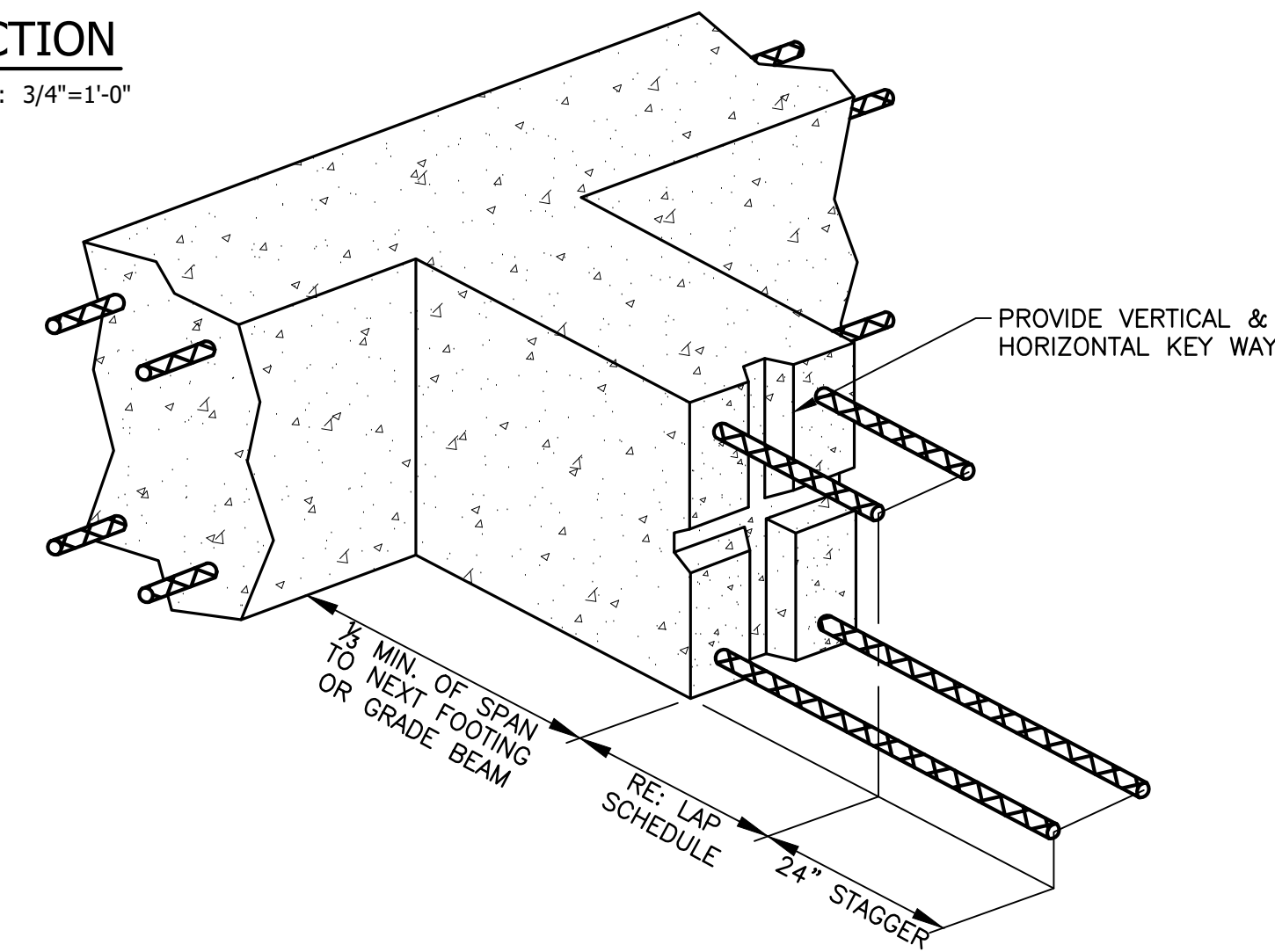
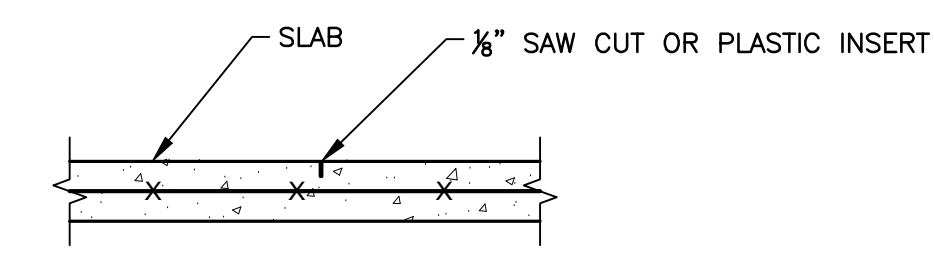
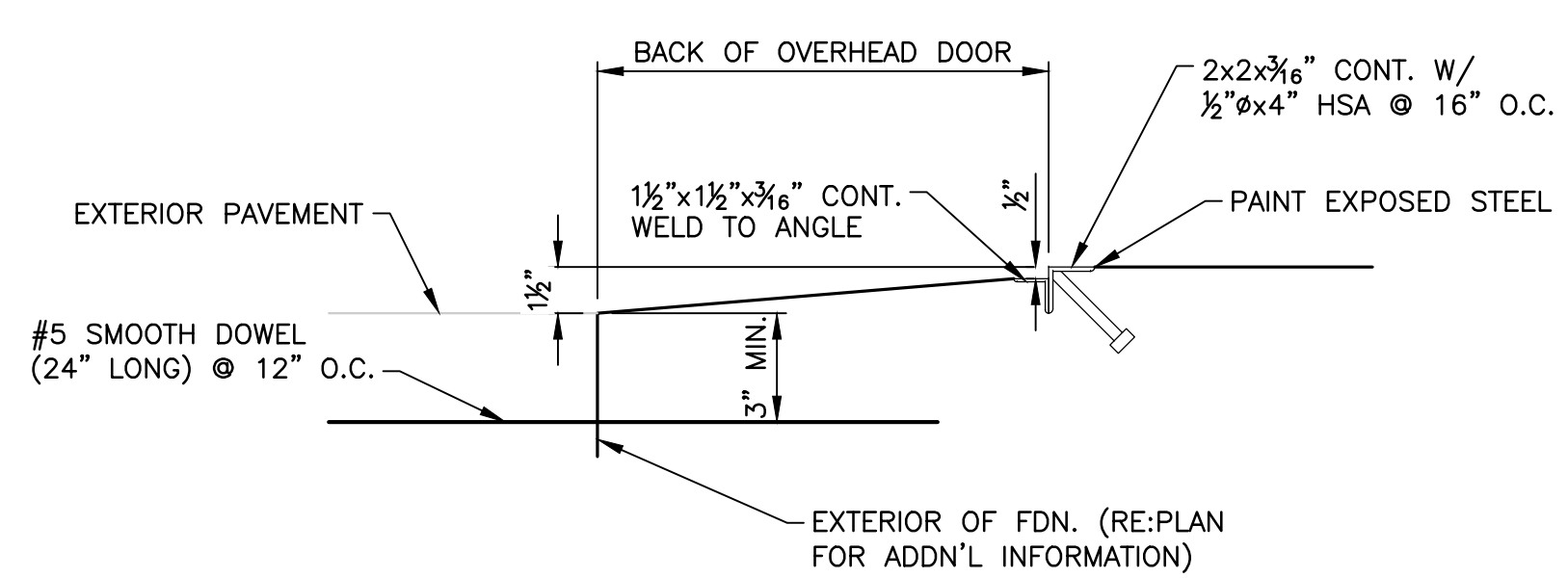
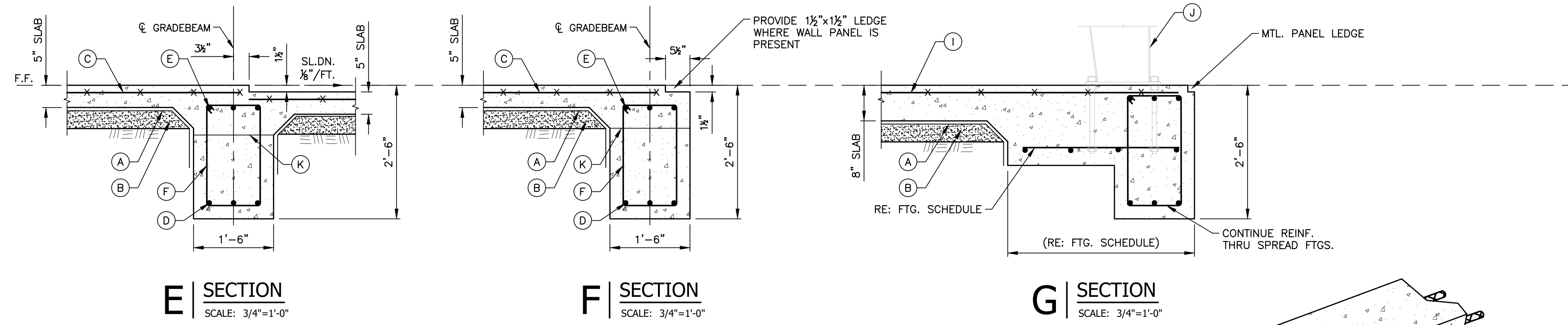
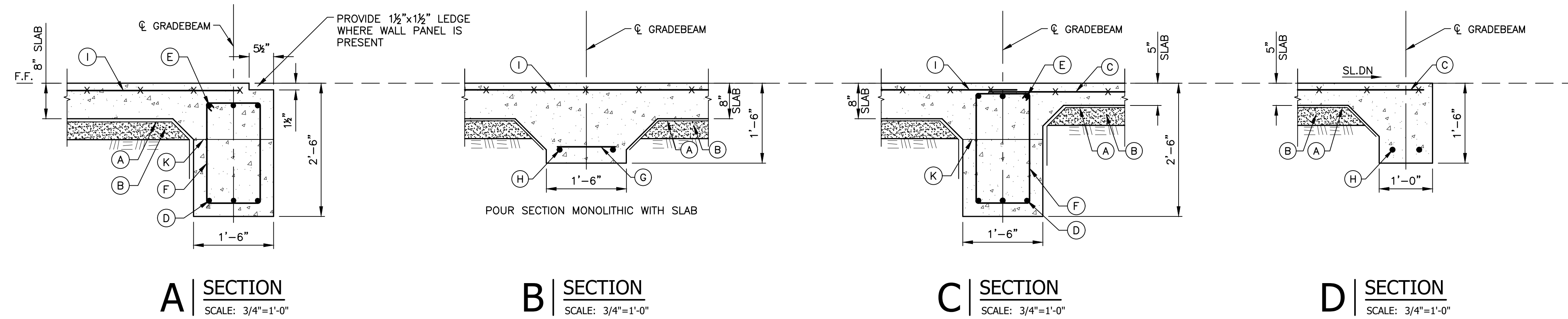
Sea



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CONSTRUCTION DOCUMENTS

S2.01



NOTES:

SEE GENERAL NOTES FOR ADDITIONAL INFORMATION RELATED TO SITE PREPARATION, EARTHWORK, AND FILL REQUIREMENTS.

FOR 5" SLAB WWR BAR DIAMETER TO BE 0.226" AT A 4" CENTER-TO-CENTER SPACING EACH WAY. SPLICE LENGTH TO BE 0'-6" MIN. PLACE WWR IN UPPER 1/3 OF SLAB. WWR SUPPORT SPACING NOT TO EXCEED 3'-0".

FOR 8" SLAB WWR BAR DIAMETER TO BE 0.319" AT A 6" CENTER-TO-CENTER SPACING EACH WAY. AT CONTRACTORS OPTION #3 BARS AT 6" O.C. EACH WAY OR #4 BARS AT 12" O.C. EACH WAY MAY BE USED.

CONCRETE COVER TO BE 3" ALONG BOTTOM AND SIDES OF GRADE BEAMS AND FOOTINGS, 1" ALONG TOP OF SLAB, AND 1 1/2" ELSEWHERE.

REFER TO ARCHITECTURAL SHEETS FOR ADDITIONAL DIMENSIONS NOT SHOWN.

SLOPE FLOORS TO DRAIN. REFER TO ARCHITECTURAL DRAWINGS FOR DRAIN LOCATIONS.

ALL EXPOSED EXTERIOR FOUNDATION SHALL HAVE A SURFACE FINISH 2.0 UNLESS NOTED OTHERWISE.

AT CONTRACTORS OPTION CORNER BARS MAY BE USED IN LIEU OF FIELD BENDING GRADE BEAM REINFORCEMENT.