ABBREVIATIONS

A

A.C.T.	ACOUSTIC CEILING TILE
A.F.F.	ABOVE FINISHED FLOOR
ADJ.	ADJUSTABLE
ADMIN.	ADMINISTRATIVE
ALUM.	ALUMINUM
ALT.	ALTERNATE
ANCIL.	ANCILLARY
ARCH.	ARCHITECT OR ARCHITECTURAL

B

BRNG.	BEARING
BLK.	BLOCK
BLKG.	BLOCKING
BD	BOARD
BOT.	BOTTOM
BRK	BRICK
BPV	BRICK PAVERS
BLDG.	BUILDING

C

CAB.	CABINET
CPT	CARPET
CIP.	CAST IN PLACE
CLG.	CEILING
CEM.	CEMENT
CPL.	CEMENT PLASTER
CTR.	CENTER
CER.	CERAMIC
CT.	CERAMIC TILE
CRPV.	CERAMIC PAVERS
C.R.	CHEMICAL RESISTANT
CLR.	CLEAR
COL.	COLUMN
CONC.	CONCRETE
CBB.	CONCRETE BACKER BOARD
CMU.	CONCRETE MASONRY UNIT
CNPV.	CONCRETE PAVERS
CS.	CONCRETE SEALED
CJ.	CONTROL JOINT
CONT.	CONTINOUS
CORR.	CORRIDOR

D

DEPT.	DEPARTMENT
DTL.	DETAIL
DIA.	DIAMETER
DIM.	DIMENSION
DISP.	DISPENSER
DR.	DOOR
DBL.	DOUBLE
DN.	DOWN
DWR.	DRAWER
DWG.	DRAWING
DF.	DRINKING FOUNTAIN
DS.	DOWN SPOUT
D.O.	DRYWALL OPENING

E

EA.	EACH
E.	EAST
ELEC	ELECTRIC OR ELECTRICAL
EWC.	ELECTRIC WATER COOLER
EL.	ELEVATION
ELEV.	ELEVATOR
EMER.	EMERGENCY
EN.	ENAMEL PAINT
ENCL.	ENCLOSURE
EPX.	EPOXY PAINT
EQ.	EQUAL
EQPT.	EQUIPMENT
EXIST.	EXISTING
ETR.	EXISTING TO REMAIN
EJ.	EXPANSION JOINT
EXT.	EXTERIOR
EIFS.	EXTERIOR INSULATING FINISHING SYSTEM

F

FV.	FIELD VERIFY
FIN.	FINISHED
FF.	FINISHED FLOOR
FA.	FIRE ALARM
FE.	FIRE EXTINGUISHER
FEC.	FIRE EXTINGUISHER CABINET
FR.	FIRE RESISTANT
FLASH.	FLASHING
FLEX.	FLEXIBLE
FLR.	FLOOR
FD.	FLOOR DRAIN
FT.	FOOT OR FEET
FTG.	FOOTING
FURR.	FURRING

G

GA.	GAUGE
GALV.	GALVANIZED
GL.	GLASS
GLB.	GLASS BLOCK
GLAZ.	GLAZING
GYP.	GYPSUM
GWB.	GYPSUM WALL BOARD

H

HC.	HANDICAPPED
HDWD.	HARDWOOD
HDWR.	HARDWARE
HM	HOLLOW METAL
HORIZ.	HORIZONTAL
HGT.	HEIGHT
HWT.	HOT WATER TANK
HVAC.	HEATING/ VENTILATION/ AIR CONDITIONING

I

ID.	INSIDE DIAMETER
INSUL.	INSULATION
INT.	INTERIOR

J

JAN	JANITOR
JNT	JOINT
JST	JOIST

L

LAB.	LABORATORY
LAM.	LAMINATE
LAV.	LAVATORY
LLGB.	LEAD LINED GYPSUM BOARD
LT.	LIGHT
LMC.	LINEAR METAL CEILING

M

MACH.	MACHINE
MH.	MAN HOLE
MFR.	MANUFACTURER
MEM.	MATCH EXISTING MATERIALS
MAX.	MAXIMUM
MECH.	MECHANICAL
MEMB.	MEMBRANE
MTL.	METAL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MO	MASONRY OPENING
MTD.	MOUNTED
MR.	MOISTURE RESISTANT
MRGB.	MOISTURE RESISTANT GYPSUM BOARD
MCWC.	MULTICOLORED WALL COVERING

N

N.	NORTH
NIC.	NOT IN CONTRACT
NO. OR #	NUMBER
NTS.	NOT TO SCALE

O

OC.	ON CENTER
OPNG.	OPENING
OPP.	OPPOSITE
OTO.	OUT TO OUT
OD.	OUTSIDE DIAMETER

P

PT.	PAINT
PTT.	PAINT & TEXTURE
PR.	PAIR
PAT.	PATIENT
PLAS.	PLASTER
P-LAM.	PLASTIC LAMINATE
PL.	PLATE
PLYWD.	PLYWOOD
PE.	POURED EPOXY
PEB.	POURED EPOXY BASE
PC.	PRODUCT CODE

R

RAD.	RADIUS
RFM.	RECESSED FLOOR MAT
REF.	REFERENCE OR REFER
REFR.	REFRIGERATOR
REINF.	REINFORCED
REQ.	REQUIRED
REV.	REVISION
RD.	ROOF DRAIN
RM.	ROOM
RO.	ROUGH OPENING

S

SCHED.	SCHEDULE
SHR.	SHOWER
SHT.	SHEET
SIM.	SIMILAR
SLSV.	SLIP RESISTANT SHEET VINYL
SPEC.	SPECIFICATION
SQ.	SQUARE
SS.	STAINLESS STEEL
STD.	STANDARD
STL.	STEEL
ST.	STONE
SPV.	STONE PAVERS
STOR.	STORAGE
SF.	STORE FRONT

T

T.B.D.	TO BE DETERMINED
TELE.	TELEPHONE
TEMP.	TEMPERED
TERR.	TERRAZZO
THK.	THICK
T&G.	TONGUE AND GROOVE
TO	TOP OF
TOC.	TOP OF CONCRETE
TC.	TOP OF CURB
TOP.	TOP OF PARAPET
TP.	TOP OF PAVEMENT
TOS.	TOP OF STEEL
TOW.	TOP OF WALL
T.	TOILET
T/S.	TOILET/ SHOWER

U

UON.	UNLESS OTHERWISE NOTED

V

V.I.F.	VERIFY IN FIELD
VEST.	VESTIBULE
VC.	VINYL COVE BASE
VCT.	VINYL COMPOSITE TILE
VT.	VINYL TILE
VWC.	VINYL WALL COVERING
VWP.	VINYL WALL PROTECTION
VWF.	VINYL WOOD FLOORING

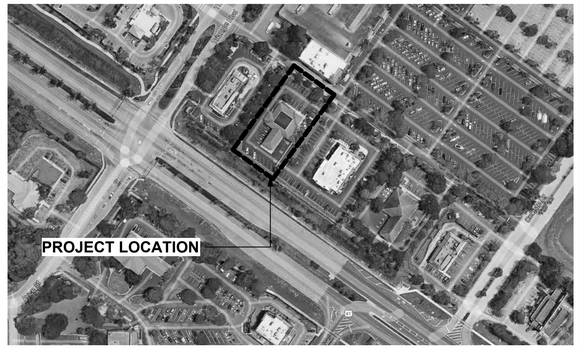
W

WSCT.	WAINSCOT
WFS.	WALL FINISH SYSTEM
WC.	WATER CLOSET
W/H	WATER HEATER
WT.	WEIGHT
W.	WEST
W/.	WITH
W/O.	WITHOUT
WD.	WOOD
WDS.	WOOD DISPLAY SYSTEM
WDP.	WOOD PANELING

A TENANT IMPROVEMENT FOR:

GOODWILL INDUSTRIES

12621 TAMIAMI TRAIL EAST
NAPLES, FLORIDA



NORTH

E4 PROJECT LOCATION
SCALE N.T.S.

SYMBOLS & MTLS.

1 / SCALE	View Name 1/8" = 1'-0"	Room name 101	ROOM TAG
			INSULATION BATT
1 / A102 A101	View Name 1/8" = 1'-0"		CMU
	SHEET WHERE DETAIL IS LOCATED		SPOT ELEVATION
	SHEET WHERE CALLOUT APPEARS	1t	WINDOW TAG
1 Ref / Ref 1 / A101 / Ref 1 / 1 Ref	ELEVATION TAG	1t	WALL TAG
101	DOOR TAG		PLYWOOD
1	REVISION TAG		FINISHED WOOD
7	KEYNOTE TAG		ROUGH WOOD
	EARTH		INSULATION RIGID
	CONCRETE		METAL
	BRICK / STONE		

GENERAL NOTES

1. THESE DRAWINGS ARE PART OF A COMPLETE SET OF DOCUMENTS WHICH PERTAIN TO THIS SPECIFIC PROJECT. DEVIATION FROM DESIGN INTENT AND MATERIALS REPRESENTED IN THESE DOCUMENTS IS PROHIBITED UNLESS SPECIFIC WRITTEN CONSENT IS GRANTED BY THE ARCHITECT OF RECORD.

2. JAMB OF DOOR (HINGE SIDE) TO BE 4" FROM ADJACENT PERPENDICULAR WALL U.O.N.

3. GENERAL CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD.

4. DIMENSIONS ARE SHOWN AS NOMINAL FROM CORE FACE OF ALL WALLS, OR CENTER LINE OF COLUMNS. CONTRACTOR SHALL VERIFY EXACT CLEARANCES FOR CABINETRY, DOOR AND EQUIPMENT WHEN LAYING OUT INTERIOR WALLS.

5. PROVIDE 2A: 10-B: C RATED FIRE EXTINGUISHERS AT LOCATIONS TO BE DETERMINED AS TENANT SPACES ARE COMPLETED - COORDINATE WITH LOCAL FIRE DEPT.

6. ALL INTERIOR WALLS ARE NOMINALLY 5" UNLESS OTHERWISE DIMENSIONED.

7. WOOD IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE TREATED.

TO THE BEST OF OUR KNOWLEDGE, THE ARCHITECTURAL PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM APPLICABLE BUILDING CODES.

THESE PLANS WERE PREPARED IN COMPLIANCE WITH:
2023 FLORIDA BUILDING CODE - BUILDING, 8TH EDITION
2023 FLORIDA FIRE PREVENTION CODE, 8TH EDITION
2023 FLORIDA BUILDING CODE - ACCESSIBILITY, 8TH EDITION

PROJECT TEAM

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SHEET INDEX

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A TENANT IMPROVEMENT FOR:
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ABBREVIATIONS, SYMBOLS, SHEET INDEX & SITE INFORMATION

ISSUE HISTORY

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ARCHITECT'S SEAL

JOB NO. 25024

PAGE NUMBER CS101

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BUILDING CODE CONFORMANCE REVIEW:

FLORIDA BUILDING CODE, EXISTING BUILDING, 8TH EDITION (2023)

THIS IS AN IMPROVEMENT TO AN EXISTING SPACE. ALTERATION LEVEL 2 PER SEC. 603

FLORIDA BUILDING CODE, BUILDING, 8TH EDITION (2023)

OCCUPANCY GROUP CHAPTER 3

- ☐ A - ASSEMBLY
- ☐ B - BUSINESS
- ☐ E - EDUCATIONAL
- ☐ F - FACTORY INDUSTRIAL
- ☐ H - HIGH-HAZARD
- ☐ I - INSTITUTIONAL
- ■ M - MERCANTILE
- ☐ R - RESIDENTIAL
- ☐ S - STORAGE
- ☐ U - MISCELLANEOUS

CONSTRUCTION TYPE (PER TABLE 601):

PROTECTED ☐ NON-SPRINKLED ■ SPRINKLED ☐

- ☐ TYPE I - A
- ☐ TYPE II - A
- ☐ TYPE III - A
- ☐ TYPE IV
- ☐ TYPE V - A
- ☐ TYPE I - B
- ☐ TYPE II - B
- ☐ TYPE III - B
- ■ TYPE V - B

AREA CALCULATIONS CHAPTER 5 (PER TABLE 504.3, 504.4, 506.2):

NOTE: EXISTING BUILDING HEIGHT & STORIES WILL NOT BE CHANGE	ALLOWABLE	PROPOSED
ALLOWABLE BUILDING HEIGHT	40'-0"	25'-0" (EXISTING)
ALLOWABLE MAXIMUM NUMBER OF STORIES	1	1 (EXISTING)
ALLOWABLE BUILDING AREA - EACH STORY	9,000 S.F.	3,675 S.F. (EXISTING) 551 S.F. (ADDITION)
ADDITION TO EXISTING BUILDING DOSE NOT EXCEEDS 50 PERCENT OF SQUARE FOOTAGE GROSS AREA PER SECTION		4, 226 S.F. (TOTAL CONDITIONED) 1,208 S.F. (TOTAL UNCONDITIONED) 5,434 S.F. (TOTAL UNDER ROOF)
FIRE RESISTANT REQUIREMENTS (TABLE 601)	0	HOUR REQUIRED

FIRE PROTECTION CHAPTERS 6 & 7

CONSTRUCTION TYPE V-B (UNPROTECTED) (UNSPRINKLED)		CODE REQUIREMENT	DESIGN PROVIDED
STRUCTURAL FRAME INCLUDING COLUMNS, GIRDERS & TRUSSES		0	0
BEARING WALLS	INTERIOR	0	0
	EXTERIOR	0	0
NON-BEARING PARTITIONS	INTERIOR	0	0
	EXTERIOR	0	0
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS		0	0
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS		0	0

ALL INTERIOR NONBEARING PARTITIONS WITHIN TENANT SPACES MAY BE CONSTRUCTED IN ACCORDANCE WITH TABLE 601 WITHOUT FIRE RESISTANCE.

INTERIOR FINISHES CHAPTER 8

GROUP M, NON-SPRINKLED

INTERIOR WALL AND CEILING FINISH REQUIREMENTS (T ABLE 803.11)	GROUP M
EXIT ENCLOSURES AND EXIT PASSAGEWAYS	CLASS A & B
CORRIDORS	CLASS B
ROOMS AND ENCLOSED SPACES	CLASS C
INTERIOR FLOOR FINISH (FBC 804.4.1)	CLASS OR CLASS II

MEANS OF EGRESS CHAPTER 10

GROUP M

NUMBER OF OCCUPANTS FOR THE DESIGNED TENANT IMPROVEMENT (FBC TABLE 1004.5)

GROUP OCCUPANCY	FLOOR AREA IN SQ. FT. PER OCCUPANT	PROPOSED BUILDING / AREA SQ. FT.	NUMBER OF OCCUPANTS
MERCANTILE: SALES FLOOR	60 GROSS	2,244 S.F.	38
MERCANTILE: STORAGE	300 GROSS	870 S.F.	3
BUSINESS	150 GROSS	547 S.F.	4
TOTAL NUMBER OCCUPANTS			45

	REQUIRED	PROVIDED
EGRESS WIDTH PER OCCUPANT SERVED (FBC 1005.1) CORRIDOR STAIRWAY	.2" X 45 OCC. = 9" .3" X 45 OCC. = 13.5"	1 AT 36" & 1 AT 72" (EXISTING) 1 AT 72" (NEW)
COMMON PATH OF EGRESS TRAVEL (FBC 1006.2.1)	75' MAX.	54'
EXIT ACCESS TRAVEL DISTANCE (FBC TABLE 1017.2)	200' MAX. (NON-SPRINKLED)	SEE LIFE SAFETY PLAN
CORRIDOR FIRE-RESISTANCE RATING (FBC TABLE 1020.1)	N/A	N/A
MINIMUM CORRIDOR WIDTH (FBC 1020.3) OCCUPANT LOAD LESS THAN 50	36" MIN.	85"
MAXIMUM DEAD-END CORRIDOR (FBC 1020.4)	20'	NO DEAD END CORRIDOR
MINIMUM NUMBER OF EXITS (FBC 1006.3.1)	2	3 PROVIDED

PLUMBING FLORIDA BUILDING CODE 8TH EDITION

CHAPTER 4 - TABLE 403.1 - MINIMUM NUMBER OF PLUMBING FACILITIES

OCCUPANCY	HABITABLE FLOOR AREA	# OF OCCUPANTS (EACH SIDE)	FIXTURES REQUIRED			
			WATER CLOSETS	LAVATORIES	DRINKING FOUNTAIN	SERVICE SINK
MERCANTILE	2,244 S.F.	60 S.F.= 38 PERSONS	1 PER 500	1 PER 750	1 PER 1,000	1
BUSINESS	547 S.F.	150 S.F.= 4 PERSONS	1	1	1	1
TOTAL OCCUPANTS = 42 OCC. OR 20 MALES & 22 FEMALES			FIXTURES PROVIDED			
			2	2	1	1

COMPLIANCE STATEMENT

THESE PLANS WERE PREPARED IN COMPLIANCE WITH THE FLORIDA BUILDING CODE 8TH EDITION AND THE FLORIDA FIRE PREVENTION CODE 8TH EDITION 2023.

PARKING ALREADY EXISTING AND APPROVED UNDER BUILDING SHELL PERMIT.

LIFE SAFETY CODE REVIEW:

FLORIDA FIRE PREVENTION CODE 8TH EDITION (2023)

CLASSIFICATION OF OCCUPANCY (NFPA 101: 6.1.11.1 & NFPA 101: CH. 38.1.2)

OCCUPANCY: ■ SINGLE OCCUPANCY ☐ MIXED OCCUPANCY

- ☐ A- ASSEMBLY
- ☐ E - EDUCATIONAL
- ☐ DAY CARE
- ☐ HEALTH CARE
- ☐ AMBULATORY HELTH CARE
- ☐ DETENTION AND CORRECTIONAL
- ☐ RESIDENTIAL
- ☐ RESIDENTIAL BOARD & CARE
- ■ MERCANTILE CLASS B
- ☐ BUSINESS
- ☐ INDUSTRIAL

REQUIRED SEPARATION OF OCCUPANCIES NFPA 101: TABLE 6.1.14.4.1

CLASSIFICATION OF HAZARD OF CONTENTS 6.2.2

0 HOUR REQUIRED FOR SINGLE TENANT

PER NFPA 101: 38.1.5 & 6.2.2.3, THE CONTENTS OF BUSINESS OCCUPANCY SHALL BE CLASSIFIED AS ORDINARY HAZARD.

OCCUPANT LOAD PER NFPA 101:38

GROUP OCCUPANCY	FLOOR AREA IN SQ. FT. PER OCCUPANT	PROPOSED AREA (SQ. FT.)	NUMBER OF OCCUPANTS
MERCANTILE: SALES FLOOR	30 SQ. FT. / OCCUPANT	2,244 SQ. FT.	75 OCCUPANTS
MERCANTILE: DONATION/RECEIVING/STAGING	300 SQ. FT./ OCCUPANT	870 SQ. FT.	3 OCCUPANTS
BUSINESS	150 SQ. FT./ OCCUPANT	547 SQ. FT.	4 OCCUPANTS
TOTAL			82 OCCUPANTS

MEANS OF EGRESS GENERAL DATA

MINIMUM WIDTH OF ANY MEANS OF EGRESS (NFPA 101: 14.8.3.4.1 (2) NOT LESS THAN 36 INCHES

MEANS OF EGRESS

		REQUIRED TIMES NUM. OF OCCUPANTS	PROVIDED
EGRESS CAPACITY (NFPA 101: TABLE 7.3.3.1)			
MINIMUM CLEAR OPENING OF LEVEL COMPONENTS	.2"/PERSON	.2 x 82 = 16.4"	(1) @ 36" & (2) @ 72" = 180" TOTAL
THE MINIMUM WIDTH OF ANY STAIRWAY	N/A	N/A	N/A

NUMBER OF EXITS

	REQUIRED	PROVIDED
PER NFPA 101: 36.2.4.2, NUMBER OF EXITS	2	1 @ 36" & 2 @ 72"

COMMON PATH, DEAD-END, AND TRAVEL DISTANCE LIMITS (NFPA 101: CH. 36) REFER TO LIFE SAFETY PLAN

NON-SPRINKLED	MERCANTILE - ORDINARY HAZARD
COMMON PATH LIMIT (36.2.5.2.(2))	75' (UNSPRINKLED)
DEAD-END LIMIT (38.2.5.2)	20 FT.
TRAVEL DISTANCE LIMIT (38.2.6.2)	150 FT.

INTERIOR FINISH

	MERCANTILE - ORDINARY HAZARD
INTERIOR WALL AND CEILING FINISH	CLASS A, CLASS B OR CLASS C PER (NFPA 101: 36.3.3.2)
INTERIOR FLOOR FINISHES - EXIT ENCLOSURES	CLASS 1 OR II PER (NFPA 101: 36.3.3.3.2)

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A TENANT IMPROVEMENT FOR:
GOODWILL NAPLES - REGIONS BANK
12621 Tamiami Trl E,
Naples, FL 34113

BUILDING CODES DATA

ISSUE HISTORY

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		△

FOR THE FIRM

ARCHITECT'S SEAL

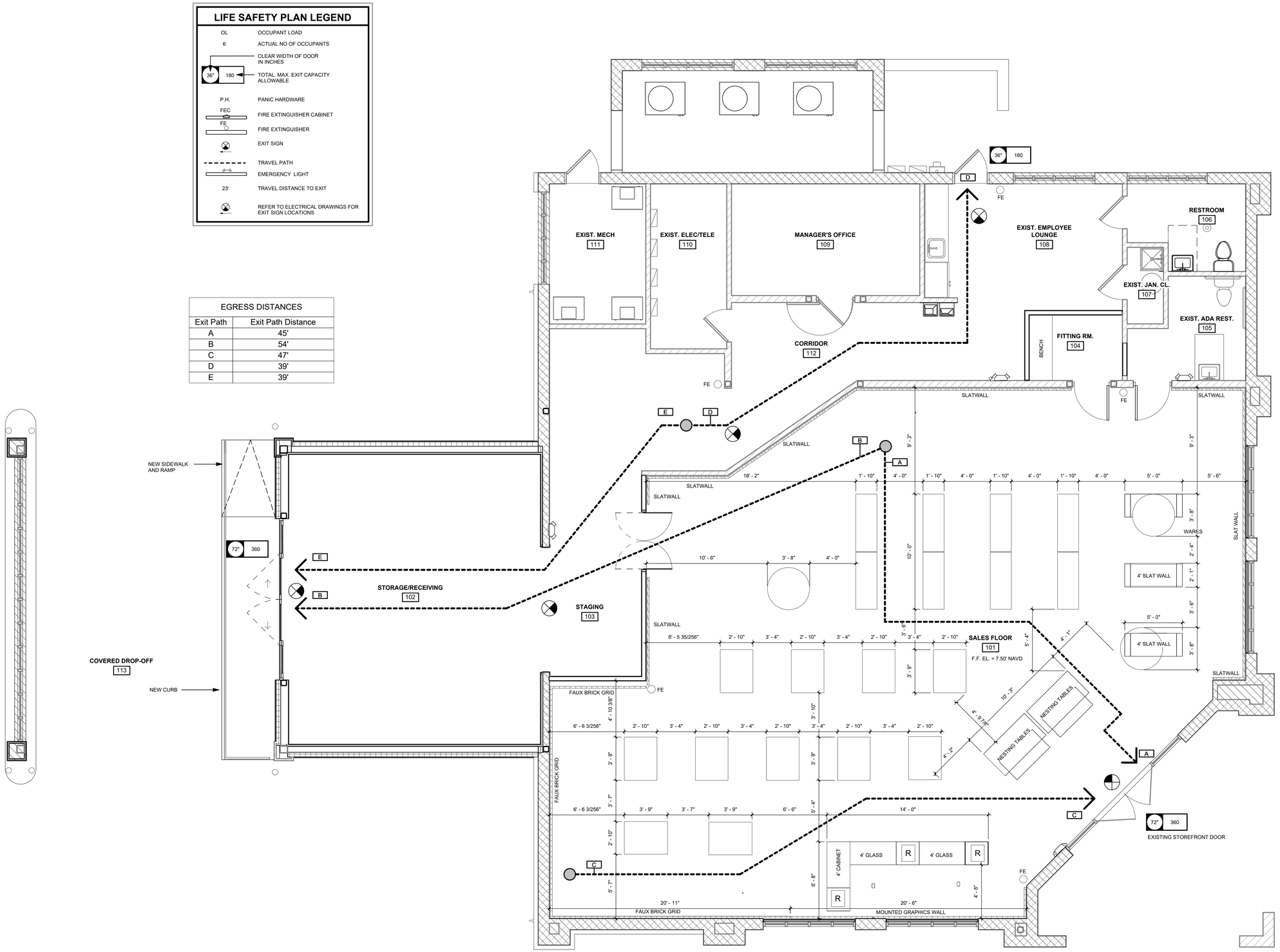
JOB NO. 25024

PAGE NUMBER LS101

LIFE SAFETY PLAN LEGEND

OL	OCCUPANT LOAD
6	ACTUAL NO OF OCCUPANTS
36"	CLEAR WIDTH OF DOOR IN INCHES
36" 180	TOTAL MAX. EXIT CAPACITY ALLOWABLE
P.H.	PANIC HARDWARE
FEC	FIRE EXTINGUISHER CABINET
FE	FIRE EXTINGUISHER
	EXIT SIGN
	TRAVEL PATH
	EMERGENCY LIGHT
23'	TRAVEL DISTANCE TO EXIT
	REFER TO ELECTRICAL DRAWINGS FOR EXIT SIGN LOCATIONS

EGRESS DISTANCES	
Exit Path	Exit Path Distance
A	45'
B	54'
C	47'
D	39'
E	39'



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LIFE SAFETY PLAN, LEGENDS, CODES

ISSUE HISTORY

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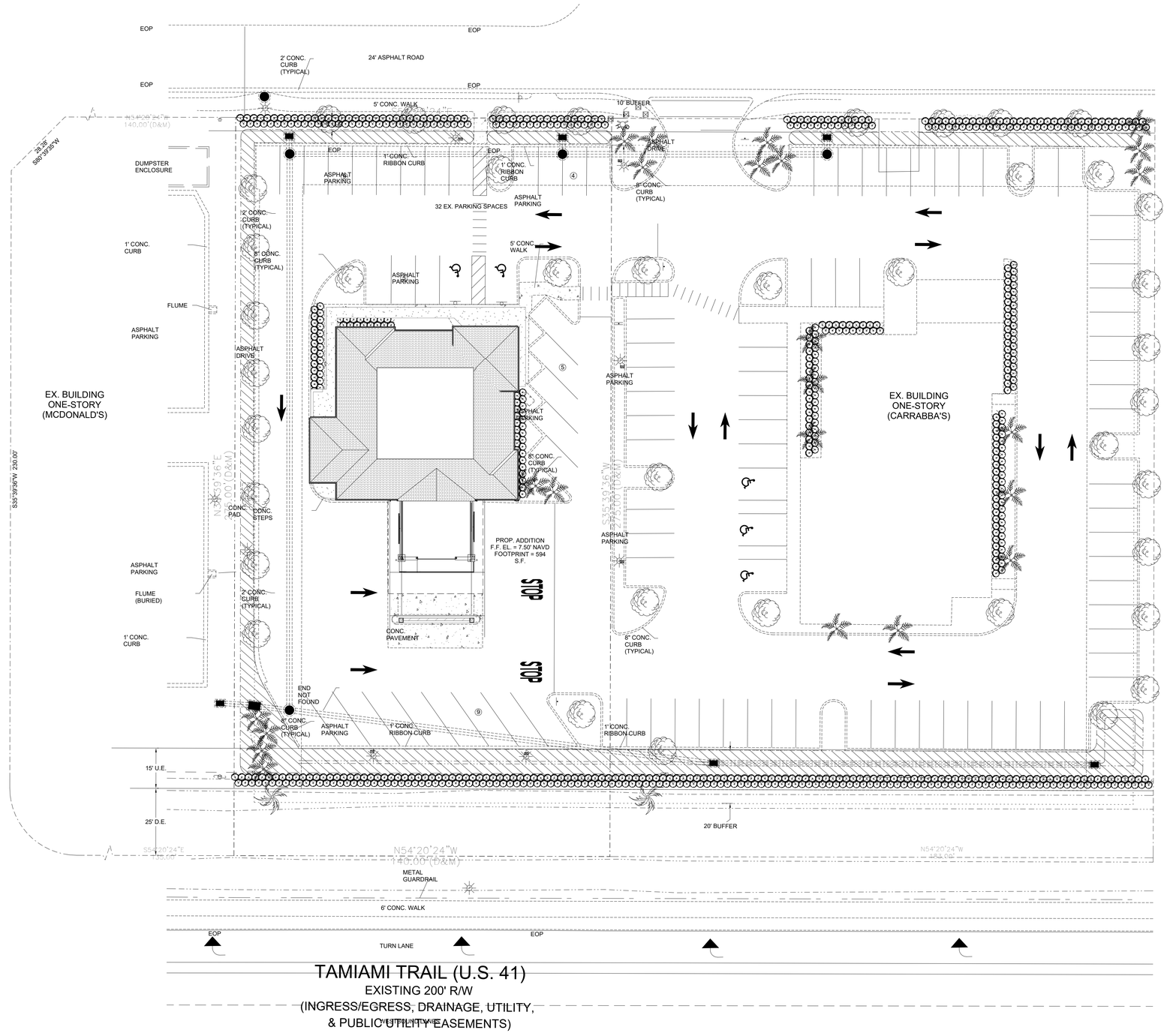
PAGE NUMBER LS102

A1 LIFE SAFETY PLAN

SCALE 1/4" = 1'-0"



THE DESIGN PROFESSIONAL WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO FOLLOW THE DESIGN PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED.

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ARCHITECTURAL SITE PLAN

ISSUE HISTORY

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ARCHITECTS SEAL

JOB NO. 25024

PAGE NUMBER AS101

A1 ARCHITECTURAL SITE PLAN (NOTE: ARCHITECTURAL SITE PLAN IS FOR REFERENCE ONLY. FOR COMPLETE SITE INFORMATION SEE CIVIL SET OF PLANS BY QUATTRONE & ASSOCIATES, INC.)

SCALE 1" = 20'-0"

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DEMOLITION GENERAL NOTES

1. DEMOLITION KEYNOTES - REFER TO DEMOLITION KEYNOTES AND EQUIPMENT LEGEND FOR SPECIFIC DEMOLITION REQUIREMENTS. SPECIFIC DEMOLITION ITEMS ARE NOT TO BE CONSIDERED ALL INCLUSIVE OR COMPLETE IN THEMSELVES. PERFORM ADDITIONAL DEMOLITION THAT MIGHT REASONABLY BE REQUIRED FOR PREPARATION OF INSTALLATION OF NEW CONSTRUCTION OR SPECIFIED FINISHES. DEMOLITION SHALL BE PERFORMED IN A MANNER THAT WILL NOT DAMAGE ADJOINING SURFACES INDICATED TO REMAIN. SURFACES SHALL BE PATCHED IF NECESSARY TO PROVIDE A SUITABLE SUBSTRATE FOR NEW FINISHES. REFER TO ENGINEER'S DRAWINGS FOR ADDITIONAL REQUIREMENTS.

2. SITE VISIT - PRIOR TO BIDDING, THE CONTRACTOR SHALL VISIT THE PROJECT AND THOROUGHLY FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS. NO CLAIMS FOR ADDITIONAL WORK DUE TO OBSERVABLE CONDITIONS WILL BE CONSIDERED.

3. DEMOLITION WORK - CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIENCE TO ADJACENT OCCUPIED BUILDING AREAS AS POSSIBLE. DEMOLISH IN AN ORDERLY AND CAREFUL MANNER AS REQUIRED TO ACCOMMODATE NEW WORK. PERFORM DEMOLITION IN ACCORDANCE WITH APPLICABLE AUTHORITIES HAVING JURISDICTION. TAKE CARE TO PREVENT DAMAGE AND EXCESSIVE NOISE OR VIBRATION SO AS NOT TO DISTURB ADJACENT OCCUPIED AREAS. ANY OPERATION THAT MAY CAUSE DISTURBANCE TO THE OWNER SHALL BE COORDINATED WITH THE OWNER A MINIMUM OF (1) WEEK IN ADVANCE. SOME WORK MAY REQUIRE PERFORMANCE DURING "OFF HOURS" TO ALLOW THE OWNERS FULL USE OF THE OCCUPIED AREAS. CONTRACTOR SHALL REMOVE ANY ADDITIONAL ITEMS REQUIRED.

4. SCHEDULING - SCHEDULE DEMOLITION WORK WITH OWNER PRIOR TO START. SCHEDULE WORK TO MINIMIZE DISRUPTION OF SERVICES. PROVIDE FOR THE UNINTERRUPTED FUNCTIONING OF THE PROJECT.

5. PROTECTION - EXERCISE CARE DURING WORK TO PROTECT INTERIOR AND EXTERIOR OF EXISTING CONSTRUCTION TO REMAIN. REPAIRS OF EXISTING CONSTRUCTION DUE TO DAMAGE SHALL BE DONE AT NO COST TO THE OWNER.

6. HAZARDOUS MATERIALS - THE CONTRACTOR SHALL IMMEDIATELY REPORT ANY HAZARDOUS OR TOXIC MATERIALS WHICH ARE DISCOVERED AND NOT SCHEDULED FOR REMOVAL BY THESE DOCUMENTS TO ARCHITECT, OWNER AND AUTHORITIES HAVING JURISDICTION.

7. FINISHES - REMOVE AND REPLACE OR REINSTALL EXISTING FINISHES AS REQUIRED TO COMPLETE THE WORK.

8. THE CONTRACTORS RESPONSIBILITIES FOR EXISTING EQUIPMENT SHALL INCLUDE BUT NOT BE LIMITED TO REMOVAL, STORAGE, REINSTALLATION, PROTECTION, ETC. UNLESS OTHERWISE DIRECTED, THE CONTRACTOR SHALL RETURN ALL EQUIPMENT IN THE CONDITION IN WHICH THE EQUIPMENT WAS TURNED OVER TO THE CONTRACTOR.

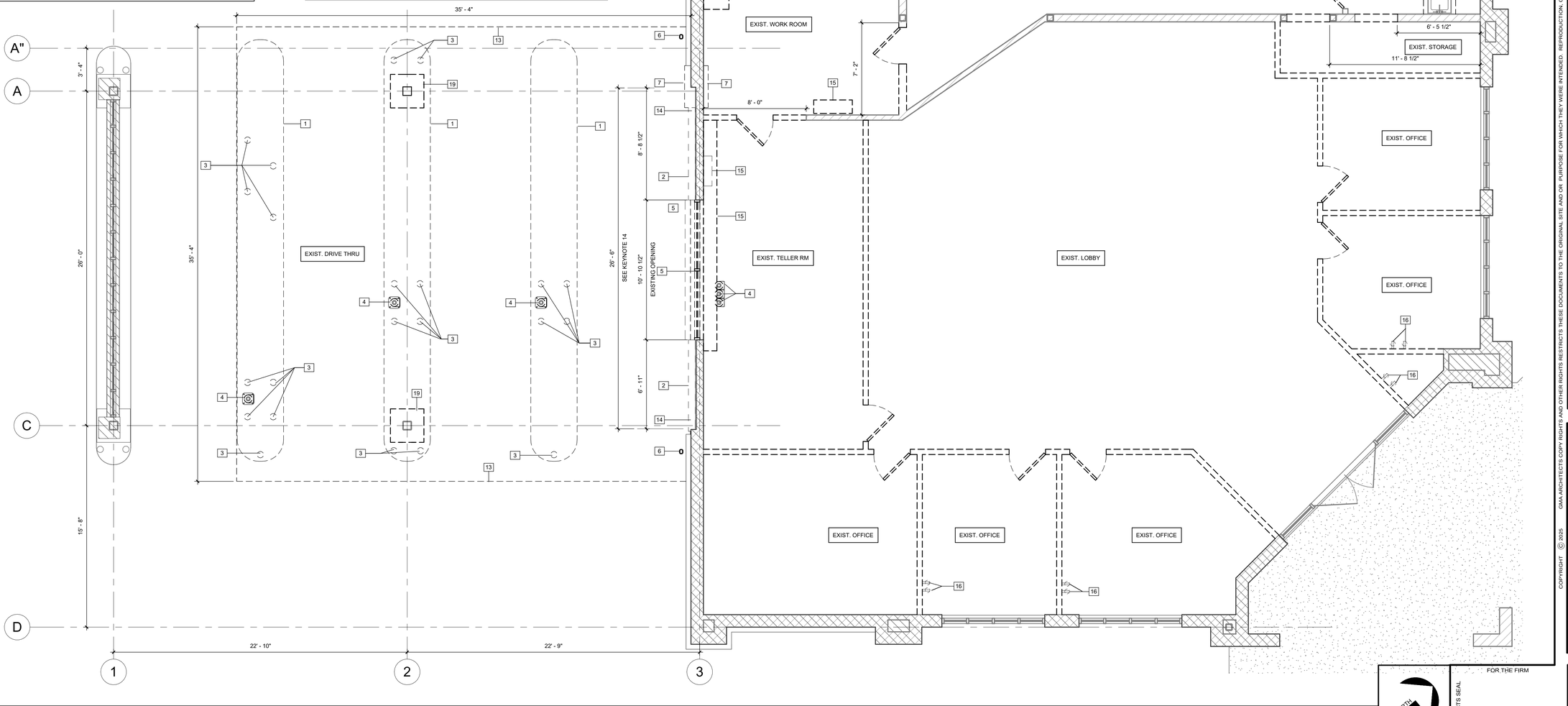
DEMOLITION LEGEND

DOOR TO BE DEMOLISHED

WALL TO BE DEMOLISHED

DEMOLITION KEYNOTES

KEY NO.	KEYNOTE DESCRIPTION
1	EXISTING CONCRETE CURB TO BE SAW CUT AND REMOVED. LEVEL TO MATCH NEW SLAB AREA.
2	EXISTING STONE WAINSCOT BULLNOSE TO BE REMOVED
3	EXISTING BOLLARD TO BE REMOVED
4	EXISTING TYPHOON TELLER TUBE SYSTEM, HARDWARE, CONDUITS AND ALL ASSOCIATED WIRES TO BE REMOVED
5	EXISTING TELLER WINDOW, EIFS SILL, STONE BULLNOSE AND BASE TO BE REMOVED
6	REMOVE EXISTING DOWNSPOUT. REPLACE WITH NEW PER NEW WORK PLANS AND ELEVATIONS.
7	EXISTING NIGHT DROP BOX TO BE REMOVED. PATCH AND REPAIR TO MATCH EXISTING AS REQUIRED.
8	REMOVE EXISTING AHU. SEE MECHANICAL PLAN.
9	REMOVE EXISTING CU. SEE MECHANICAL PLAN.
10	EXISTING SAFE DEPOSITE BOXES TO BE REMOVED. GC COORDINATE ON REMOVING WHILE DEMOLISHING DRIVE-THRU TELLER WINDOW.
11	EXISTING ARMORY VAULT DOOR, FRAME AND EQUIPMENT TO REMAIN. GC COORDINATE DOOR SWING TO OPEN POSITION.
12	REMOVE AND RELOCATE EXISTING DOOR, FRAME AND HARDWARE. SEE FLOOR PLAN FOR LOCATION.
13	EXISTING CONCRETE SLAB TO BE SAW CUT AND REMOVED. SEE STRUCTURAL PLAN.
14	EXISTING EIFS SYSTEM TO BE REMOVED. PATCH AND REPAIR SHEATHING AS REQUIRE.
15	EXISTING CASEWORK TO BE REMOVED. CONTRACTOR SHALL PATCH AND REPAIR WALL FINISH TO MATCH NEW CONDITION.
16	EXISTING ELECTRICAL SERVICE LINE TO BE PROPERLY CAPPED.
17	PARTIALLY DEMOLISH EXISTING PARTITION TO ACCOMMODATE NEW SINK.
18	SLAB TO BE PARTIALLY DEMOLISHED TO ACCOMMODATE NEW TOILET.
19	EXISTING STONE BASE, BULLNOSE AND LT. GA. FRAMING TO BE REMOVED



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A TENANT IMPROVEMENT FOR:
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12621 Tamiami Trl E,
Naples, FL 34113

FLOOR PLAN - EXISTING/DEMOLITION

ISSUE HISTORY

12/24/25	PERMIT SET

JOB NO. 25024

PAGE NUMBER D101

FOR THE FIRM

ARCHITECT'S SEAL

NORTH

A1 DEMOLITION FLOOR PLAN

SCALE 1/4" = 1'-0"

DEMOLITION LEGEND

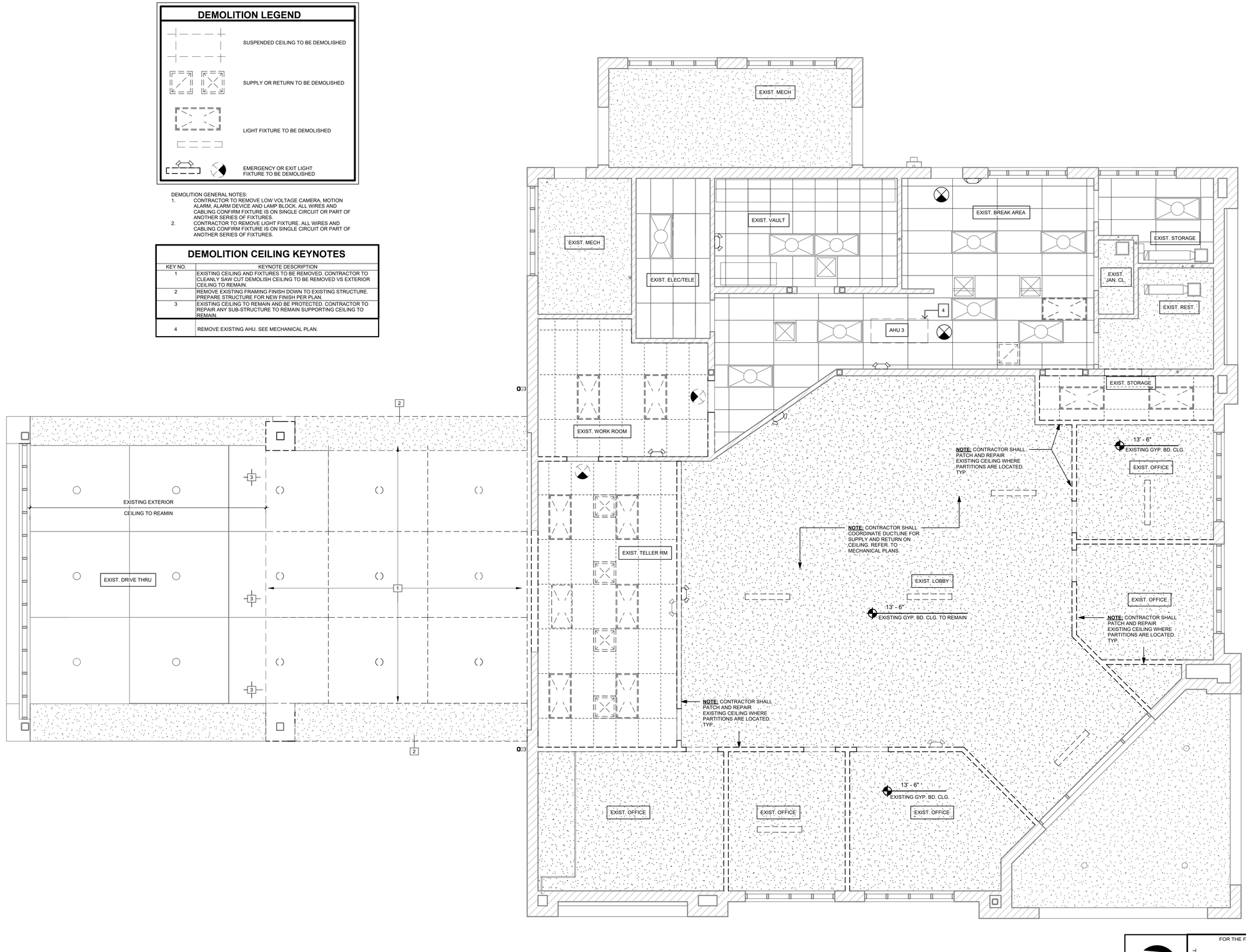
- SUSPENDED CEILING TO BE DEMOLISHED
- SUPPLY OR RETURN TO BE DEMOLISHED
- LIGHT FIXTURE TO BE DEMOLISHED
- EMERGENCY OR EXIT LIGHT FIXTURE TO BE DEMOLISHED

DEMOLITION GENERAL NOTES:

1. CONTRACTOR TO REMOVE LOW VOLTAGE CAMERA, MOTION ALARM, ALARM DEVICE AND LAMP BLOCK. ALL WIRES AND CABLING CONFIRM FIXTURE IS ON SINGLE CIRCUIT OR PART OF ANOTHER SERIES OF FIXTURES.
2. CONTRACTOR TO REMOVE LIGHT FIXTURE. ALL WIRES AND CABLING CONFIRM FIXTURE IS ON SINGLE CIRCUIT OR PART OF ANOTHER SERIES OF FIXTURES.

DEMOLITION CEILING KEYNOTES

KEY NO.	KEYNOTE DESCRIPTION
1	EXISTING CEILING AND FIXTURES TO BE REMOVED. CONTRACTOR TO CLEANLY SAW CUT DEMOLISH CEILING TO BE REMOVED VS EXTERIOR CEILING TO REMAIN.
2	REMOVE EXISTING FRAMING FINISH DOWN TO EXISTING STRUCTURE. PREPARE STRUCTURE FOR NEW FINISH PER PLAN.
3	EXISTING CEILING TO REMAIN AND BE PROTECTED. CONTRACTOR TO REPAIR ANY SUB-STRUCTURE TO REMAIN SUPPORTING CEILING TO REMAIN.
4	REMOVE EXISTING AHU. SEE MECHANICAL PLAN.



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REFLECTED CEILING PLAN - EXISTING/DEMOLITION

ISSUE HISTORY

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NORTH

JOB NO. 25024

PAGE NUMBER D102

A1 DEMOLITION REFLECTED CEILING PLAN

SCALE 1/4" = 1'-0"

PLAN LEGEND

- EXISTING PARTITION WALL TO REMAIN
- EXISTING EXTERIOR WALL TO REMAIN
- NEW EIFS ON 6" MTL. WALL
- NEW PARTITION WALL
- NEW SWING DOOR
- EXISTING SWING DOOR

EXIST. SIDEWALK
EXIST. MECH
AHU 3
AHU 1
AHU 2
EXIST. MECH 111
EXIST. ELEC/TELE 110
MANAGER'S OFFICE 109
EXIST. EMPLOYEE LOUNGE 108
RESTROOM 106
EXIST. JAN. CL. 107
EXIST. ADA REST. 105
FITTING RM. 104
BENCH
CORRIDOR 112
FEATURE WALL
STAGING 103
STORAGE/RECEIVING 102
SALES FLOOR 101
F.F. EL. = 7.50' NAVD
ASPHALT
CONCRETE
COVERED DROP-OFF
NEW BOLLARD
CONTINUOU EXTERIOR CAULK
EXISTING COLUMNS
NEW SIDEWALK AND RAMP. SEE CIVIL FOR DETAILS
EXISTING OPENING
PAINTED 5/8" GYP. BD. ON MTL. FURRING CHANNEL FRAME VERITCAL SUPPORT@ 16" O.C. AT STOREFRONT SYSTEM

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FLOOR PLAN

ISSUE HISTORY

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FOR THE FIRM

ARCHITECTS SEAL

JOB NO. 25024

PAGE NUMBER A101

A1 FLOOR PLAN

SCALE 1/4" = 1'-0"

ROOM FINISH LEGEND

	FLOORS
F-1	SEALED CONCRETE
C-1	CARPET
EX.	EXISTING FLOOR
P-1	PORCELAIN TILE

EXIST. MECH

AHU 1

AHU 2

EXIST. MECH
111
EX.

EXIST. ELEC/TELE
110
EX.

MANAGER'S OFFICE
109
EX.

EXIST. EMPLOYEE LOUNGE
108
EX.

RESTROOM
106
EX.

EXIST. JAN. CL.
107

EXIST. ADA REST.
105
EX.

FITTING RM.
104
C-1

BENCH

CORRIDOR
112
EX.

STAGING
103
F-1

STORAGE/RECEIVING
102
F-1

NEW

EXISTING

SALES FLOOR
101
2,244 SF
F-1

LAYOUT PER CASEWORK
G.C. COORDINATE W/ FIXTURE LAYOUT

P-1

A-201
A1

A1
A301

A11
A301

7'-0 1/2"
FF. EL.

NEW SIDEWALK AND RAMP

7'-5 1/2"
FF. EL.

A-201 D1

H1
A301

NEW CURB

A9
A302

G1 A-201

H1
A301

A1
A301

A11
A301

A" A H G F E D C B D

1 2 3

THE DESIGN PROFESSIONAL WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO FOLLOW THE DESIGN PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED.

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FINISH FLOOR PLAN

ISSUE HISTORY

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FOR THE FIRM

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NORTH

JOB NO. 25024

PAGE NUMBER A102

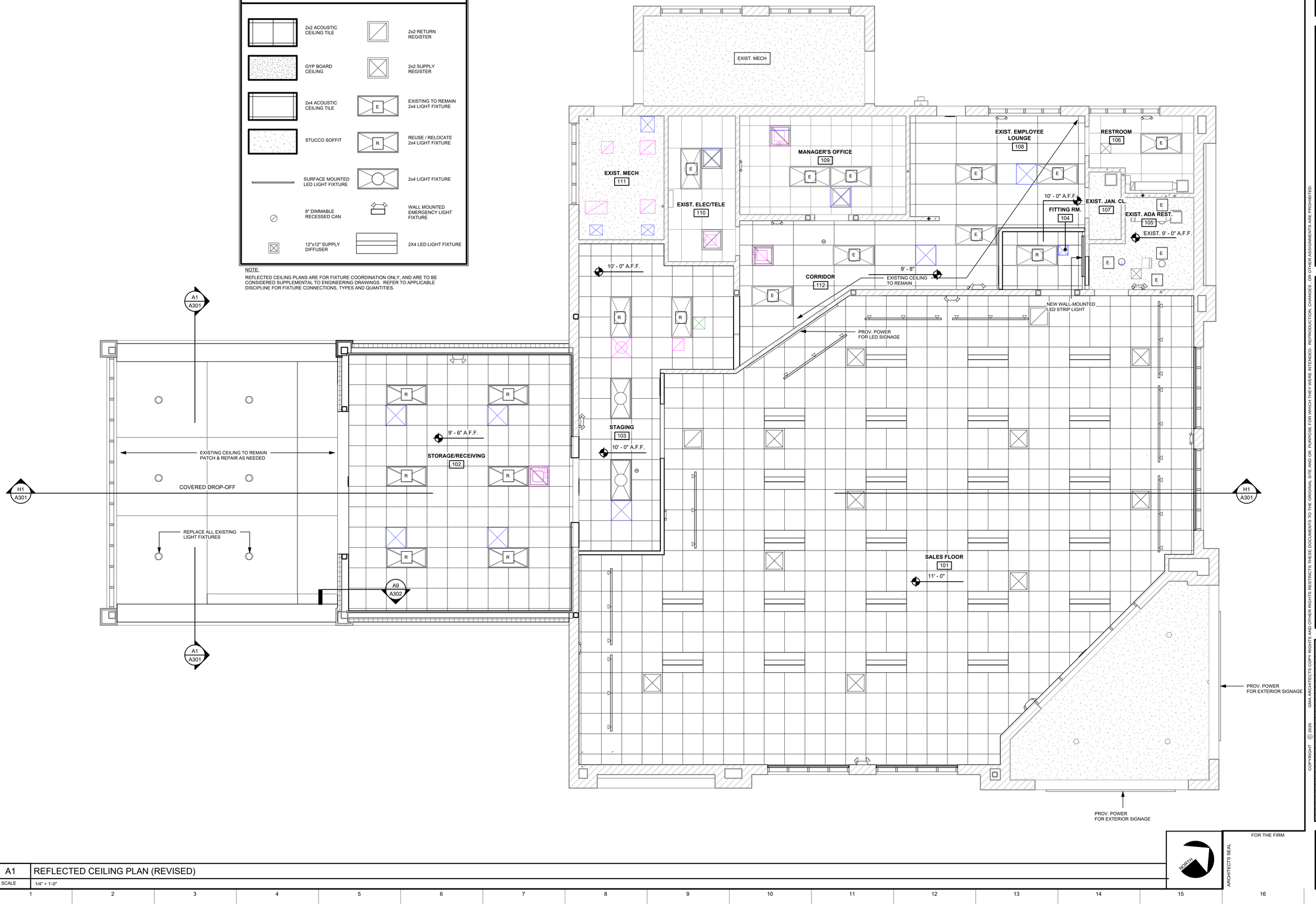
A1 FINISH FLOOR PLAN

SCALE 1/4" = 1'-0"

CEILING LEGEND

2x2 ACOUSTIC CEILING TILE	2x2 RETURN REGISTER
GYP BOARD CEILING	2x2 SUPPLY REGISTER
2x4 ACOUSTIC CEILING TILE	E — EXISTING TO REMAIN 2x4 LIGHT FIXTURE
STUCCO SOFFIT	R — REUSE / RELOCATE 2x4 LIGHT FIXTURE
SURFACE MOUNTED LED LIGHT FIXTURE	2x4 LIGHT FIXTURE
8" DIMMABLE RECESSED CAN	WALL MOUNTED EMERGENCY LIGHT FIXTURE
12"x12" SUPPLY DIFFUSER	2X4 LED LIGHT FIXTURE

NOTE:
REFLECTED CEILING PLANS ARE FOR FIXTURE COORDINATION ONLY, AND ARE TO BE CONSIDERED SUPPLEMENTAL TO ENGINEERING DRAWINGS. REFER TO APPLICABLE DISCIPLINE FOR FIXTURE CONNECTIONS, TYPES AND QUANTITIES.



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REFLECTED CEILING PLAN

ISSUE HISTORY

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FOR THE FIRM

ARCHITECT'S SEAL

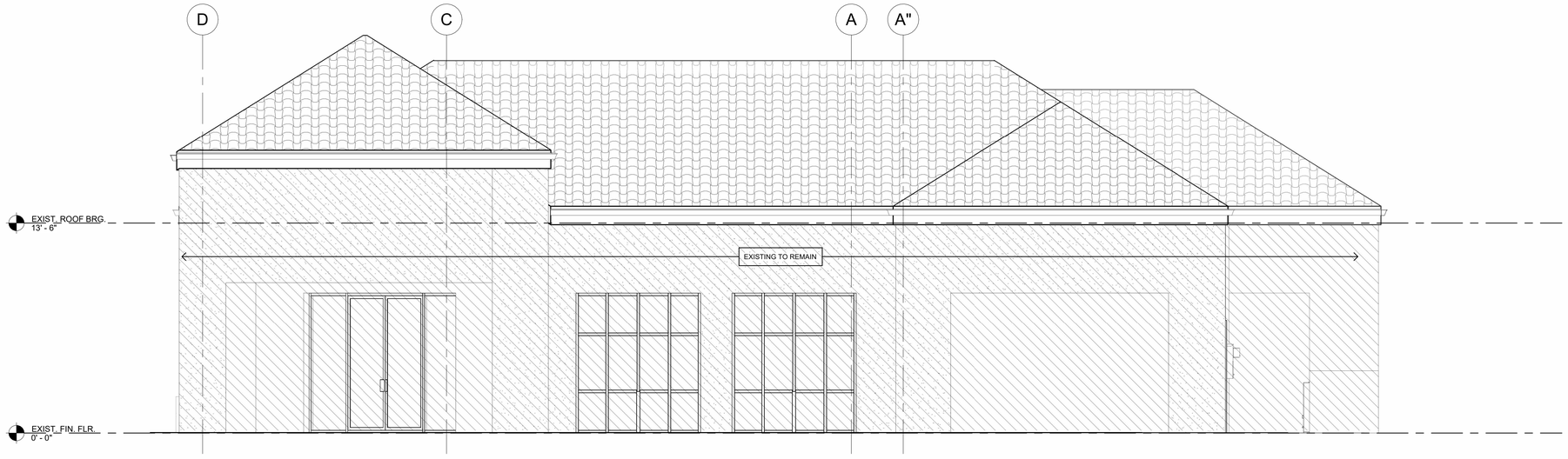
NORTH

JOB NO. 25024

PAGE NUMBER A103

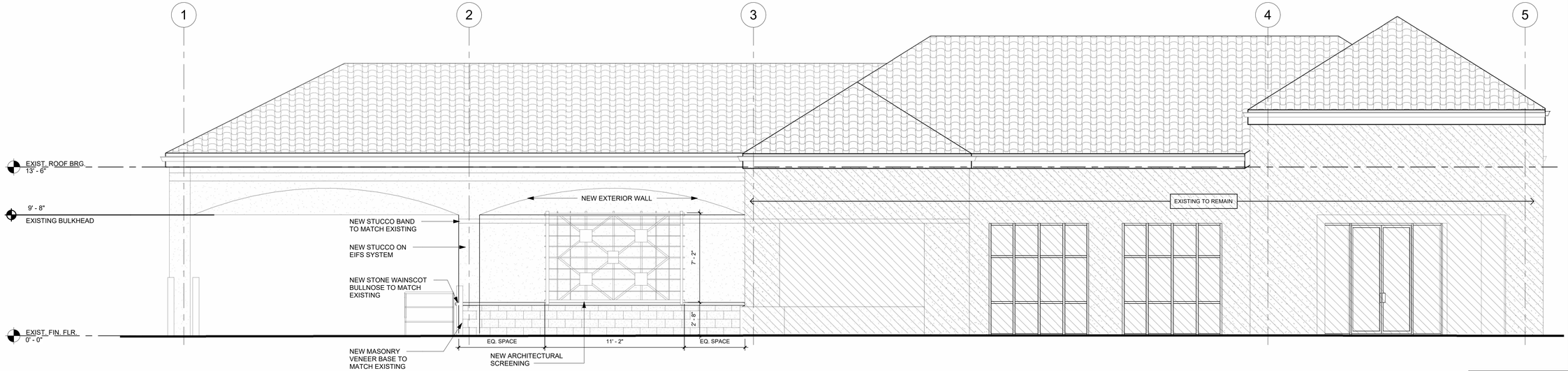
A1 REFLECTED CEILING PLAN (REVISED)

SCALE 1/4" = 1'-0"



G1 NORTH ELEVATION

SCALE 1/4" = 1'-0"



A1 EAST ELEVATION

SCALE 1/4" = 1'-0"

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EXTERIOR ELEVATIONS

ISSUE HISTORY

12/24/25	PERMIT SET	0

FOR THE FIRM

ARCHITECT'S SEAL

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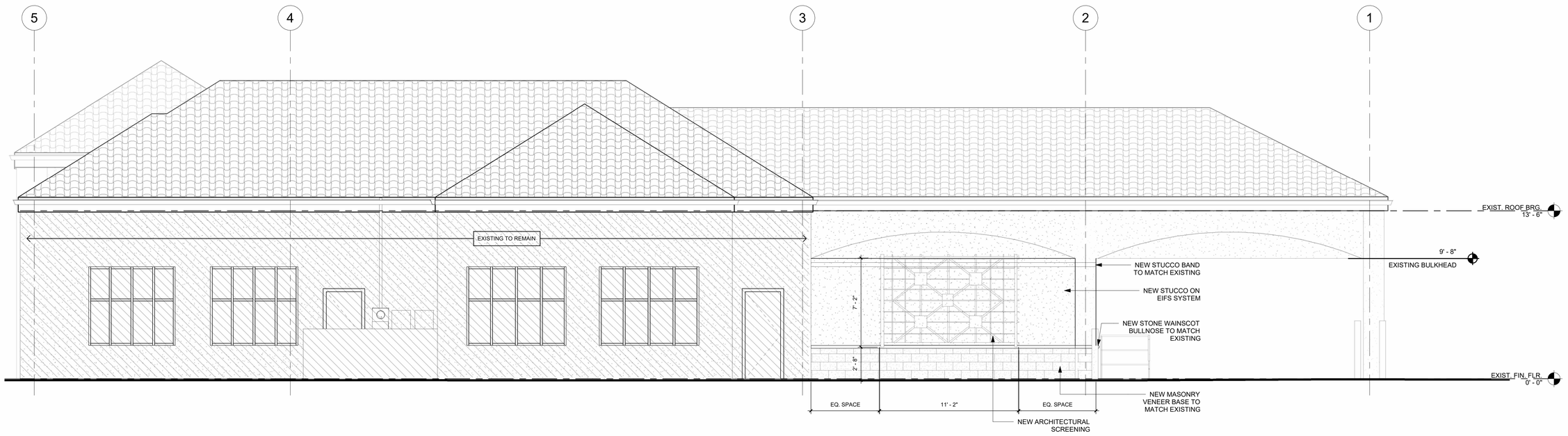
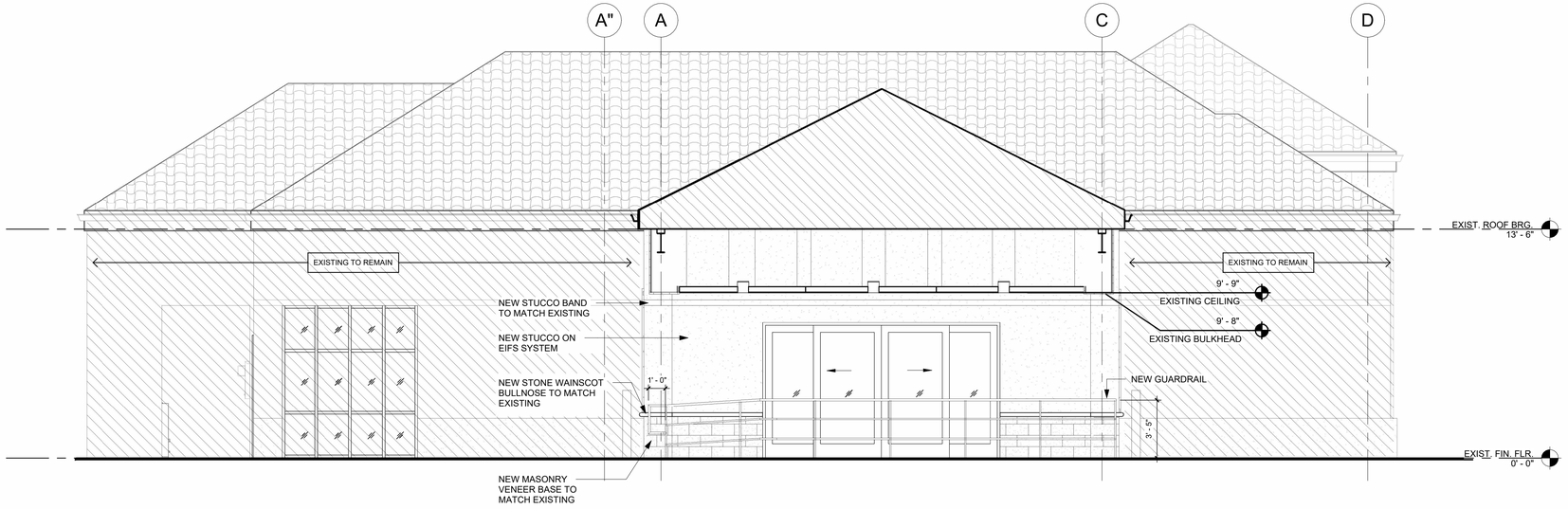


G1 WEST ELEVATION

SCALE 1/4" = 1'-0"



A1 SOUTH ELEVATION

SCALE 1/4" = 1'-0"

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GMA ARCHITECTS PLANNERS

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EXTERIOR ELEVATIONS

ISSUE HISTORY

12/24/25	PERMIT SET	0
		1

FOR THE FIRM

ARCHITECT'S SEAL

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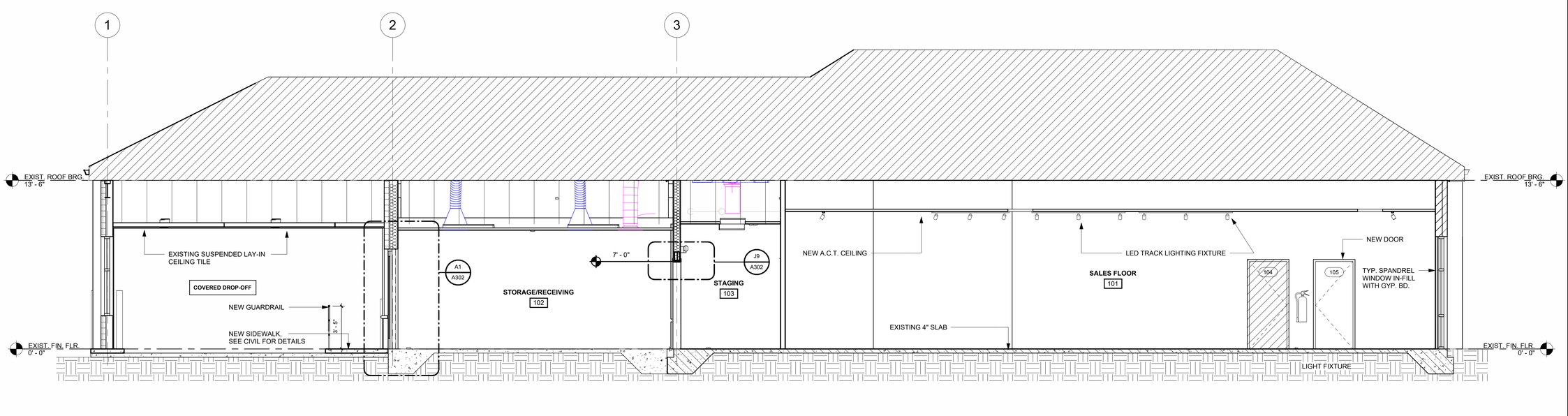
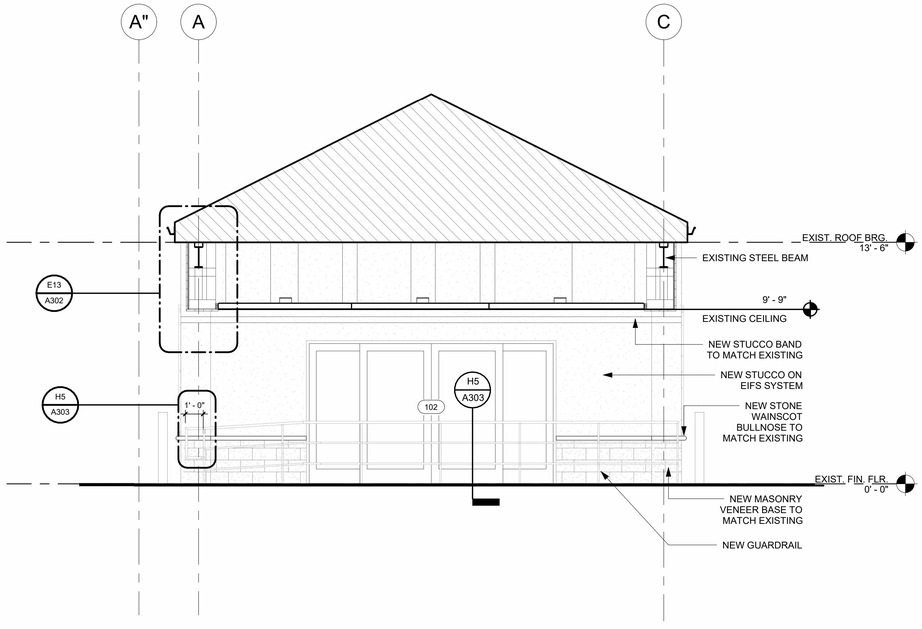


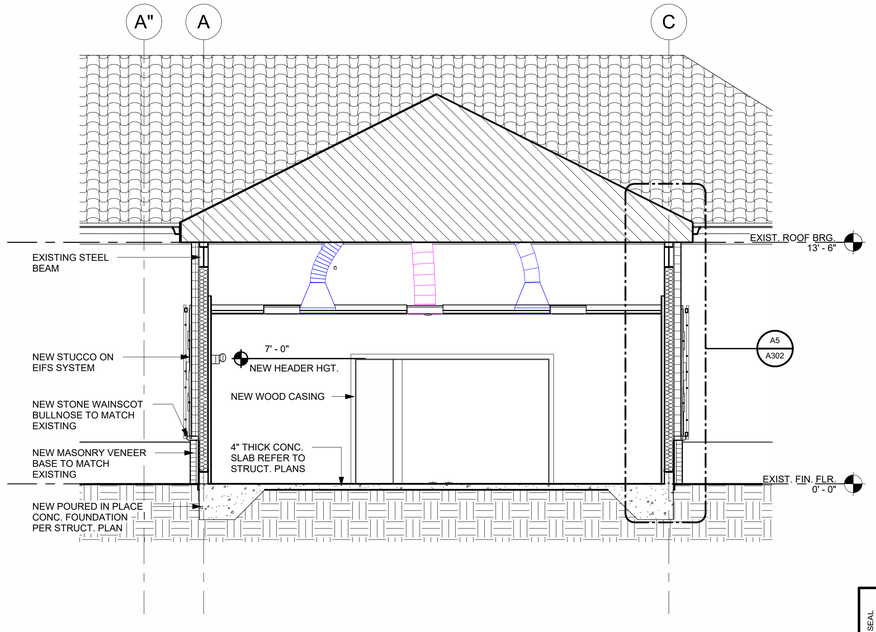
H1 BUILDING SECTION 1

SCALE 1/4" = 1'-0"



A1 BUILDING SECTION 2

SCALE 1/4" = 1'-0"



A11 BUILDING SECTION 3

SCALE 1/4" = 1'-0"

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BUILDING SECTIONS

ISSUE HISTORY

12/24/25	PERMIT SET	0
		1
		2
		3
		4
		5
		6
		7
		8
		9
		10
		11
		12
		13
		14
		15
		16

ARCHITECT'S SEAL

FOR THE FIRM

JOB NO. 25024

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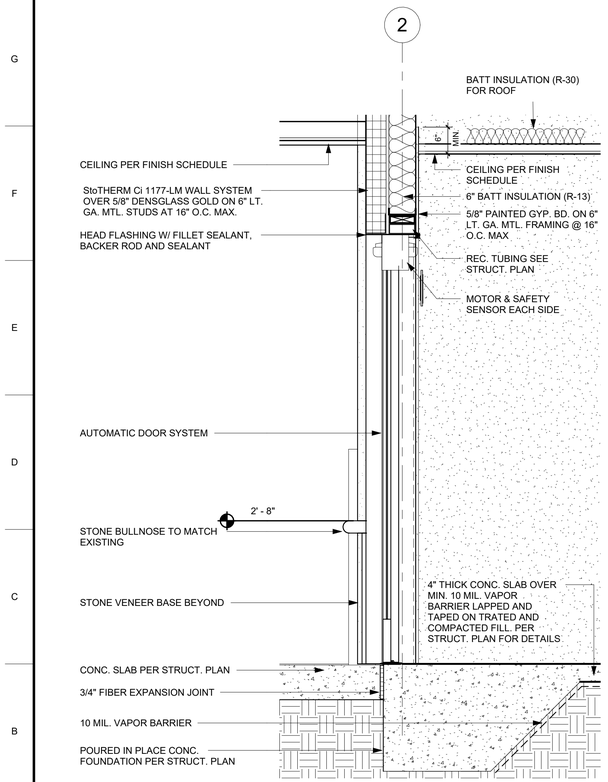
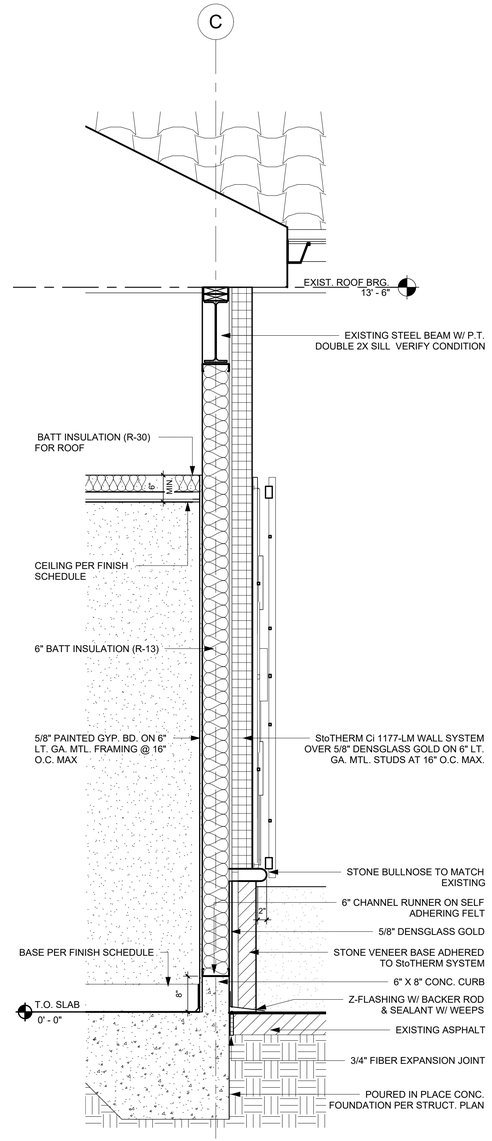
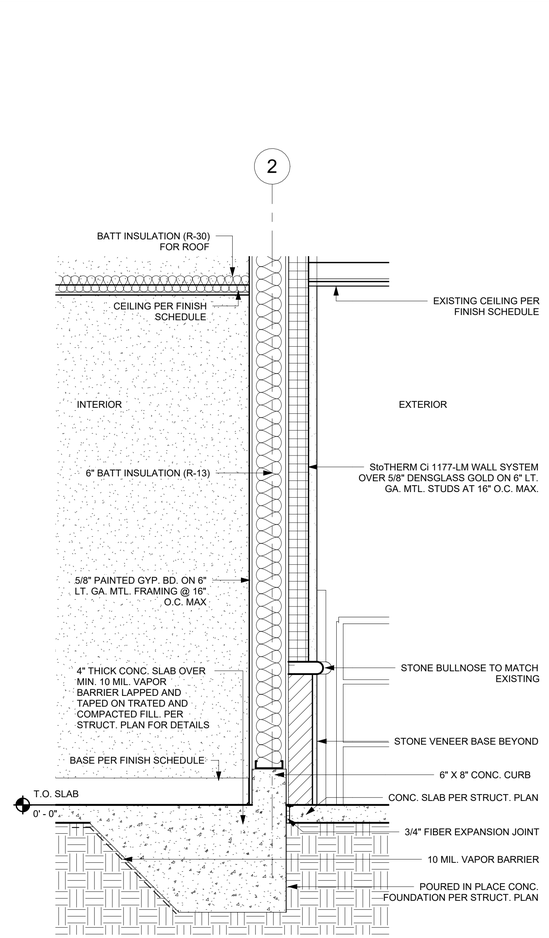


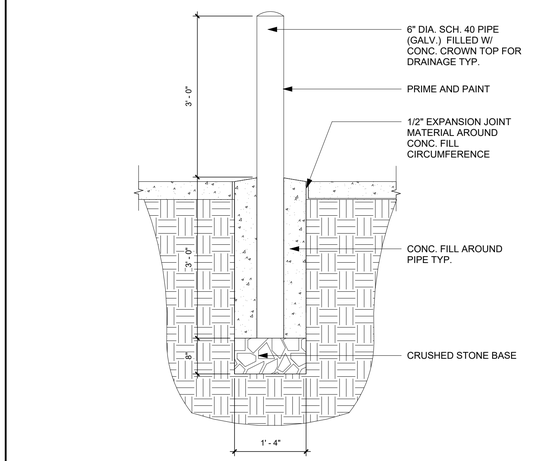
A1	WALL SECTION 1
SCALE	3/4" = 1'-0"



A5	WALL SECTION 2
SCALE	3/4" = 1'-0"

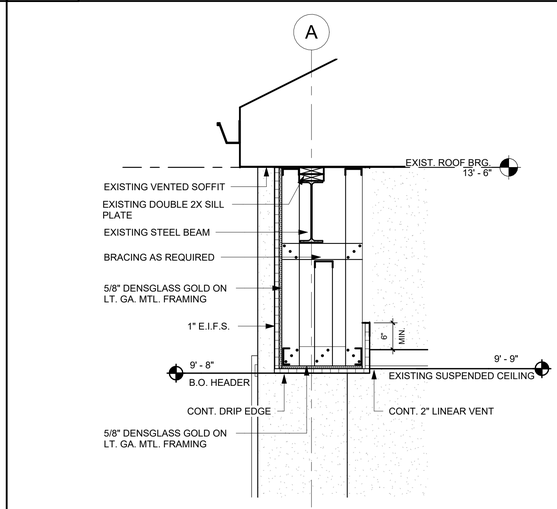


A9	WALL SECTION 3
SCALE	3/4" = 1'-0"

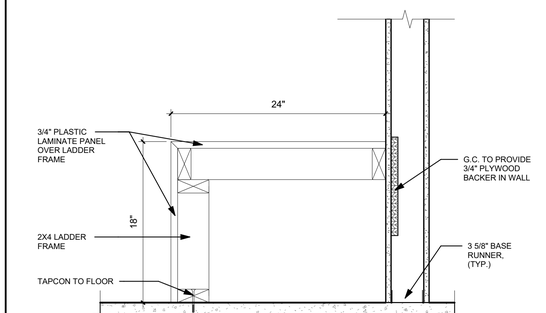


J9	ENLARGED SECTION - HEADER
SCALE	3/4" = 1'-0"

J13	TYP. BOLLARD DETAIL
SCALE	3/4" = 1'-0"



E13	ENLARGED SECTION - HEADER CANOPY
SCALE	3/4" = 1'-0"



* FITTING ROOM BENCH TO BE WILSONART D417 - 60 "LAPIS BLUE" COORDINATE W/ GOODWILL STANDARDS

A13	BENCH DETAIL
SCALE	1 1/2" = 1'-0"

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WALL SECTIONS & ENLARGED DETAILS

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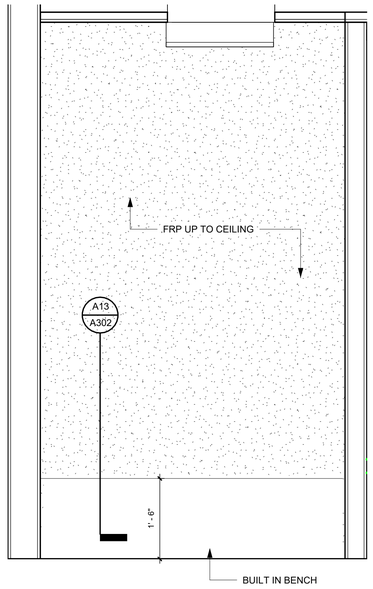
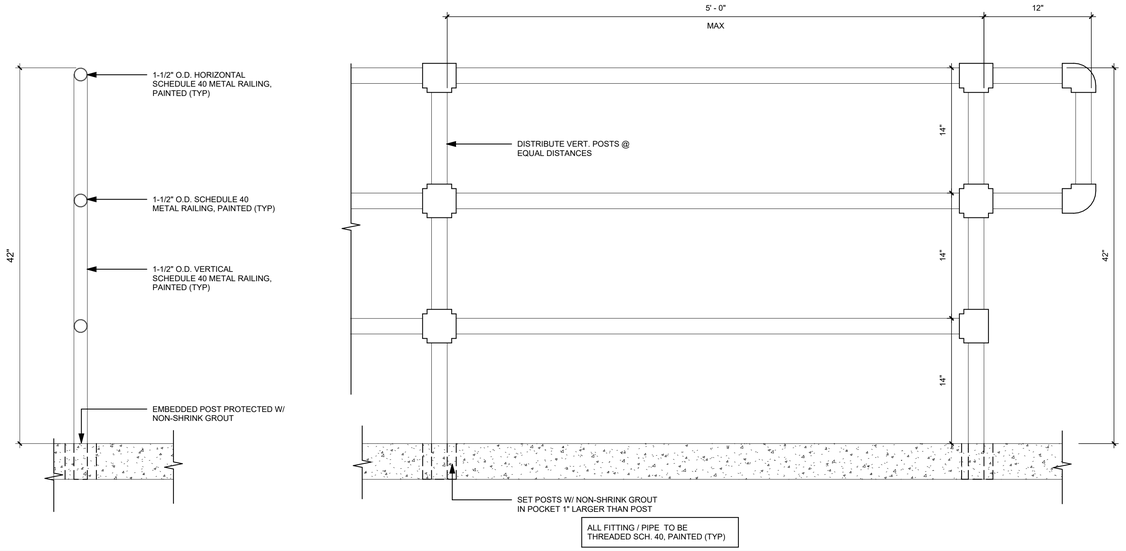


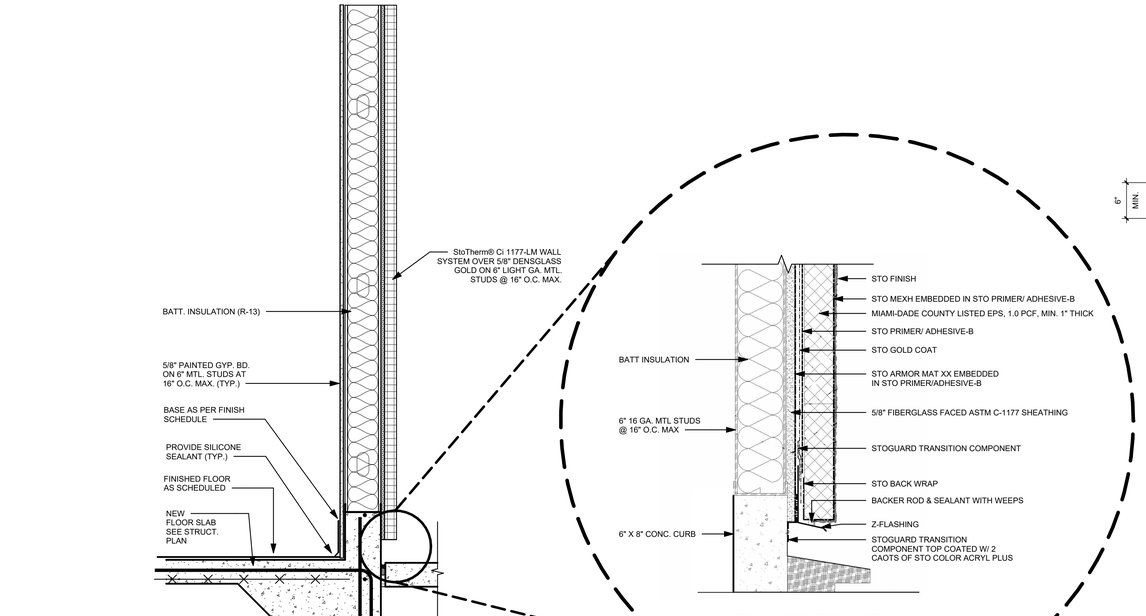
H1 FITTING RM. ELEVATION

SCALE 3/4" = 1'-0"



H5 RAILING DETAIL

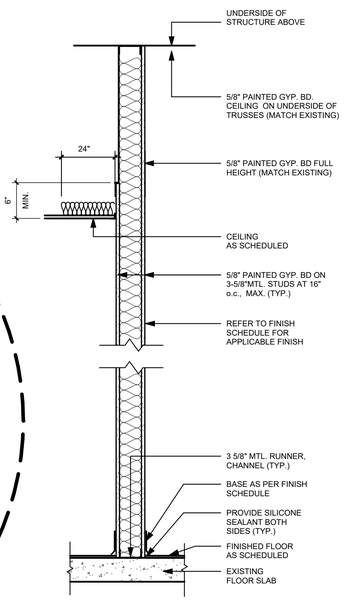
SCALE 1 1/2" = 1'-0"



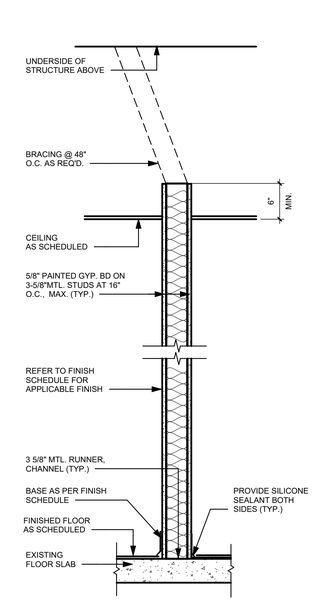
W1 WALL TYPE

ENLARGED DETAIL

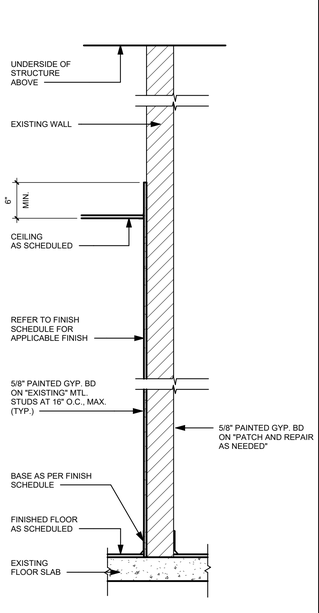
NOTE: STONE VENEER NOT SHOWN.



P1 PARTITION TYPE



P2 PARTITION TYPE



P3 PARTITION TYPE

A1 WALL & PARTITION TYPES

SCALE 1" = 1'-0"

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PARTITION TYPES

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ROOM FINISH SCHEDULE

NUMBER	ROOM NAME	AREA	BASE	FLOOR	CEILING	WALL				COMMENTS
						NORTH	SOUTH	EAST	WEST	
101	SALES FLOOR	2244 SF	VINLY	CARPET	EXISTING					
102	STORAGE/RECEIVING	551 SF	VINLY	SC	ACT	PAINT GYP. BD.	PAINT GYP. BD.	PAINT GYP. BD.	PAINT GYP. BD.	
103	STAGING	319 SF	VINLY	SC	ACT	PAINT GYP. BD.	PAINT GYP. BD.	PAINT GYP. BD.	PAINT GYP. BD.	
104	FITTING RM.	46 SF	VINLY	CARPET	EXISTING	FRP	FRP	FRP	FRP	
105	EXIST. ADA REST.	77 SF	EXISTING							
106	RESTROOM	69 SF	EXISTING			FRP	FRP	FRP	FRP	
107	EXIST. JAN. CL.	21 SF	EXISTING			FRP	FRP	FRP	FRP	
108	EXIST. EMPLOYEE LOUNGE	176 SF	EXISTING			4'-0" FRP	4'-0" FRP	4'-0" FRP	4'-0" FRP	
109	MANAGER'S OFFICE	158 SF	EXISTING							
110	EXIST. ELEC/TELE	95 SF	EXISTING							
111	EXIST. MECH	102 SF	EXISTING							
112	CORRIDOR	213 SF	EXISTING							
113	COVERED DROP-OFF	572 SF	EXISTING							

ROOM FINISH LEGEND

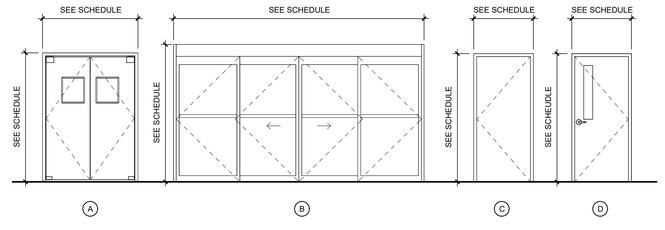
FLOORS		BASE		WALLS		CEILINGS	
CPT	CARPET TILE	V	VINYL BASE	GBP	PAINTED GYPSUM BOARD	ACT	ACOUSTIC CEILING TILE
PC1	POLISHED CONCRETE 1500 GRIT	T	PORCELAIN TILE	FRP	FIBER REINFORCED PLASTIC	GB/P	GYPSUM BOARD CEILING PAINTED
PC2	POLISHED CONCRETE 800 GRIT					ES/P	EXPOSED STRUCTURE PAINTED
T	PORCELAIN TILE					ECC	EGG CRATE CEILING

DOOR SCHEDULE

DOOR NO.	SIZE		ROOM	DOOR			FRAME			HARDWARE FUNCTION	DETAILS			COMMENTS
	WIDTH	HEIGHT		TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH		HEAD	JAMB	SILL	
101A	5' - 0"	7' - 0"	SALES FLOOR	A	Polymer Cell Core With .5" Solid ABS Frame	WOOD CORE FINISH	F2	HOLLOW METAL	PAINT	PASSAGE	D6/A601	SIM.	A6/A601	
102	14' - 0"	8' - 0"	STORAGE/RECEIVING	B	ALUM.	CLEAR ANODIZE	MFG.	MFG.	MFG.	LOCK CYLINDER / THUMBTURN	D1/A601	SIM.	A1/A601	
104	3' - 0"	7' - 0"	FITTING RM.	C	EXISTING →		F1	EXISTING →		STORAGE	D9/A601	SIM.	A9/A601	
105	3' - 0"	7' - 0"	EXIST. ADA REST.	C	EXISTING →		F1	EXISTING →		STORAGE	D9/A601	SIM.	A9/A601	

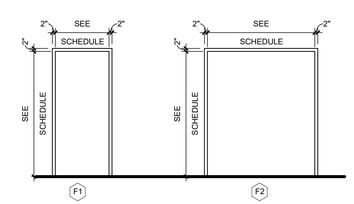
ABBREVIATIONS: HM = HOLLOW METAL, AL= ALUMINUM, PT = PAINT, ST = STAIN, WD = WOOD

EXISTING DOORS AND FRAME TO BE REUSE. ALL ITEMS TO BE PAINT.



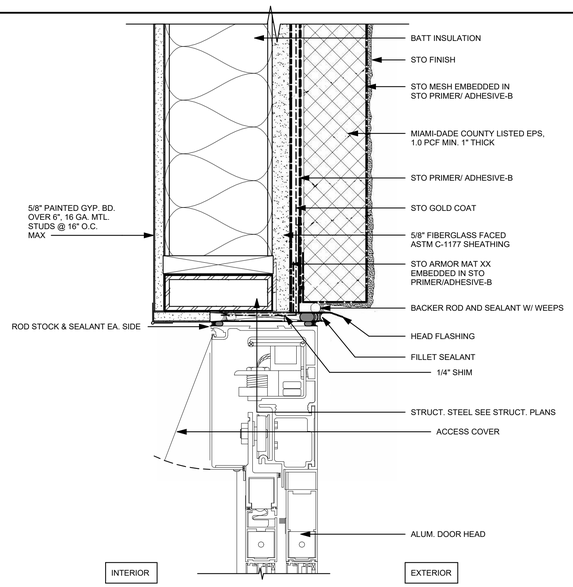
J9 DOOR ELEVATION

SCALE 1/4" = 1'-0"



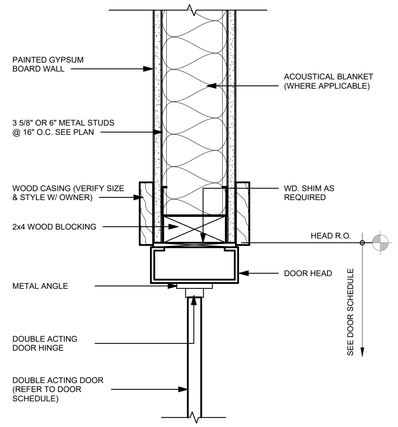
J14 DOOR FRAME TYPES

SCALE 1/4" = 1'-0"



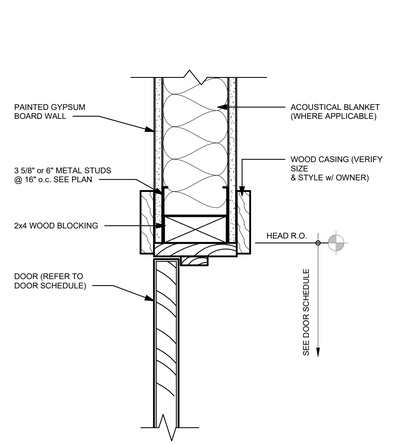
D1 EXTERIOR S.F. DOOR HEAD @ TRANSOM

SCALE 3" = 1'-0"



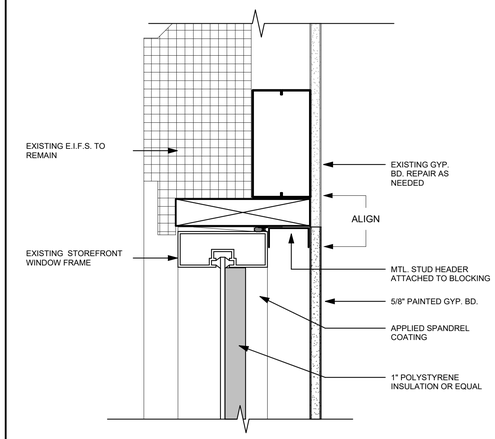
D6 DOUBLE ACTING DOOR HEAD DETAIL

SCALE 3" = 1'-0"



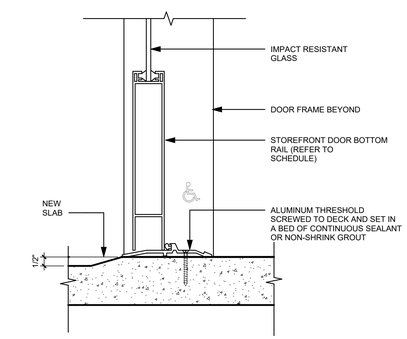
D9 INTERIOR HEAD DETAIL

SCALE 3" = 1'-0"



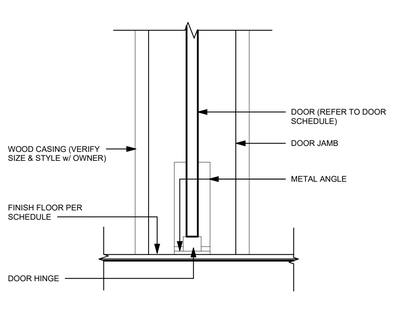
D13 EXISTING S.F. WINDOW HEAD DETAIL

SCALE 3" = 1'-0"



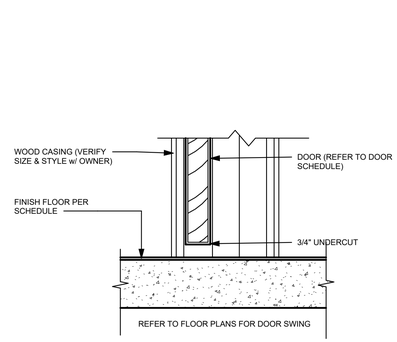
A1 EXTERIOR S.F. DOOR THRESHOLD DETAIL

SCALE 3" = 1'-0"



A6 DOUBLE ACTING DOOR THRESHOLD

SCALE 3" = 1'-0"



A9 INTERIOR THRESHOLD DETAIL

SCALE 3" = 1'-0"

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A TENANT IMPROVEMENT FOR:
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SCHEDULES & DOOR TYPES

ISSUE HISTORY

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GENERAL

THE STRUCTURE HAS BEEN DESIGNED FOR IN-SERVICE LOADS AND STABILITY UNDER THE FINAL CONFIGURATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE CONSTRUCTION LOADS AND TO PROVIDE ADEQUATE BRACING, SHORING, AND OTHER TEMPORARY SUPPORTS AS REQUIRED TO SAFELY COMPLETE THE WORK.

THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND SITE DRAWINGS. VERIFY DIMENSIONS AND CONDITIONS AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES REQUIRING CLARIFICATION OR REVISION PRIOR TO CONSTRUCTION.

DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE TYPICAL AND APPLY TO SIMILAR SITUATIONS ELSEWHERE, EXCEPT WHERE NOTED OTHERWISE. ADAPT REQUIREMENTS OF DETAILS, SECTIONS, PLANS, AND NOTES AT LOCATIONS WHERE CONDITIONS ARE SIMILAR.

DIMENSIONS AND CONDITIONS SHALL BE FIELD VERIFIED. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM BEFORE PROCEEDING WITH THE WORK.

EXISTING CONDITIONS:
ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS SHALL BE FIELD VERIFIED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY SIGNIFICANT DISCREPANCIES FROM CONDITIONS SHOWN ON THE DRAWINGS.

EXISTING STRUCTURE:
REPAIRS, ALTERATIONS, AND ADDITIONS SHALL BE IN ACCORDANCE WITH THE 2023 FLORIDA BUILDING CODE, EXISTING BUILDING – 8TH EDITION.

INFORMATION SHOWN FOR THE EXISTING STRUCTURE ON THESE DRAWINGS WAS TAKEN FROM THE DRAWINGS THAT WERE
TITLED:AMSOUTH & CARRABAS at LCLY FREEDOM SQUARE
DATED:SEPTEMBER 22,2004
WORK SHOWN ON THESE PLANS ASSUMES THAT THE ORIGINAL CONSTRUCTION WAS PERFORMED IN CONFORMANCE WITH THE ABOVE INDICATED ORIGINAL DRAWINGS INCLUDING (BUT NOT LIMITED TO) DIMENSIONS, ELEVATIONS, MEMBER SIZES, MATERIALS, DETAILS, ETC. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS.

UNDER NO CIRCUMSTANCES SHALL THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURES BE IMPAIRED IN ANY WAY BY CONSTRUCTION OPERATIONS AND PROCEDURES. DO NOT EXCAVATE OR DISTURB SOIL ADJACENT TO OR BENEATH EXISTING FOOTINGS.

DESIGN CRITERIA

THE STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2023 8TH EDITION OF THE FLORIDA BUILDING CODE AND ASCE 7-22. FOLLOW ALL APPLICABLE PROVISIONS FOR ALL PHASES OF CONSTRUCTION.

ADDITIONS TO THE STRUCTURE ARE DESIGNED IN ACCORDANCE WITH THE 2023 FLORIDA EXISTING BUILDING CODE.

WIND LOAD DESIGN DATA
- WIND SPEED = 170 MPH (132 MPH ALLOWABLE)
- RISK CATEGORY = II
- EXPOSURE = C
- INTERNAL PRESSURE COEFFICIENT = +/- 0.18 ENCLOSED
- SEE LOAD MAPS FOR COMPONENT AND CLADDING WIND PRESSURE

OPENINGS LOCATED WITHIN 30 FT OF GRADE SHALL BE PROTECTED FROM WIND BORNE DEBRIS PER MISSILE LEVEL D OF ASTM E1996.

FOUNDATIONS

FOUNDATIONS ARE DESIGNED FOR AN ASSUMED SOIL BEARING PRESSURE OF 2,000 PSF FOR SILTY SAND AND GRAVELS. FOUNDATIONS SHALL BEAR ON COMPETENT NATIVE SOIL OR COMPACTED STRUCTURAL FILL. IF QUESTIONABLE SOILS OR POTENTIALLY UNSTABLE CONDITIONS ARE ENCOUNTERED A GEOTECHNICAL ENGINEER SHALL BE RETAINED AT THE CONTRACTOR'S EXPENSE TO INVESTIGATE AND PROVIDE RECOMMENDATIONS. REFER TO CIVIL DRAWINGS FOR COMPACTION REQUIREMENTS.

SUBMITTALS

SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. THESE SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT. DIMENSIONS AND ACCURACY ARE THE RESPONSIBILITY OF THE CONTRACTOR. SHOP DRAWINGS SHALL BE REVIEWED AND BE STAMPED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE ARCHITECT.

SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL COMPONENTS INCLUDING, BUT NOT LIMITED TO:

- CONCRETE MIX DESIGNS
- REINFORCING STEEL
- STRUCTURAL STEEL

IN ADDITION, SHOP DRAWINGS FOR SPECIALTY ENGINEERED PRODUCTS SHALL INCLUDE CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER FOR:

- COLD FORMED METAL FRAMING

DEFERRED SUBMITTALS

IN ACCORDANCE WITH FBC 107.3.4.1, THE FOLLOWING SPECIALTY ITEMS WILL NOT BE SUBMITTED AT THE TIME OF THE BUILDING PERMIT APPLICATION BUT WILL BE DEFERRED UNTIL AFTER THE PERMIT IS ISSUED:

- COLD FORMED METAL FRAMING

THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

CONCRETE

REINFORCED CONCRETE HAS BEEN DESIGNED IN ACCORDANCE WITH AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND COMMENTARY".

CEMENT SHALL CONFORM TO ASTM C150, TYPE I, UNO. FLY ASH SHALL CONFORM TO ASTM C618, CLASS C OR F. NORMAL WEIGHT AGGREGATE SHALL CONFORM TO ASTM C33.

CONFORM TO ACI 306R FOR COLD WEATHER CONCRETING AND ACI 305R FOR HOT WEATHER CONCRETING.

CAST-IN-PLACE CONCRETE SHALL BE PER AN APPROVED MIX DESIGN WITH STRENGTHS VERIFIED BY STANDARD 28-DAY CYLINDER TESTS:

- ALL USES, UNLESS NOTED OTHERWISE: 4000 PSI
- FOOTINGS: 3000 PSI
- SLABS ON GRADE: 3000 PSI

WATER MAY NOT BE ADDED TO BATCH AT THE SITE UNLESS SPECIFICALLY NOTED ON THE TICKET PROVIDED BY THE READY-MIX COMPANY.

ANCHOR RODS, DOWELS, REINFORCING STEEL, INSERTS, ETC, SHALL BE SECURELY TIED IN PLACE PRIOR TO PLACING CONCRETE. CONCRETE BLOCKS ONLY SHALL BE USED TO SUPPORT REINFORCING OFF GRADE.

CONCRETE SHALL BE MECHANICALLY VIBRATED TO PREVENT THE OCCURRENCE OF AIR POCKETS. REPAIR HONEYCOMBS, SPALLS, AND OTHER DAMAGED AREAS AS DIRECTED BY ENGINEER.

CORING OF SLABS, BEAMS, COLUMNS, OR SHEAR WALLS IS NOT PERMITTED. PROVIDE SLEEVES FOR ALL PENETRATIONS PRIOR TO PLACING CONCRETE.

SLAB ON GRADE

SUBGRADE SHALL BE PREPARED PER THE RECOMMENDATIONS ESTABLISHED IN THE GEOTECHNICAL REPORT. IF NO REPORT IS PROVIDED, THE SOIL SHALL BE COMPACTED TO AT LEAST 95% OF MODIFIED PROCTOR TEST AND VERIFIED BY AN INDEPENDENT GEOTECHNICAL CONSULTANT. REFER TO THE ARCHITECTURAL DRAWINGS FOR VAPOR BARRIER REQUIREMENTS.

PLACE CRACK CONTROL JOINTS AS SHOWN ON PLAN OR AT 12 FEET MAXIMUM FOR A 4" THICK SLAB, OR 15 FEET MAXIMUM FOR A 6" THICK SLAB. JOINT SPACING SHALL NOT EXCEED 1.5 TO 1 WIDTH TO LENGTH RATIO. CONTROL JOINTS SHALL BE PROVIDED AT ALL COLUMNS AND RE-ENTRENT CORNERS. CONTRACTOR SHALL SUBMIT A CONTROL JOINT LAYOUT TO THE ARCHITECT PRIOR TO CONCRETE PLACEMENT.

FOR SLABS 4" TO 6" THICK, MACRO SYNTHETIC FIBER MAY BE PROVIDED AT A DOSAGE RATE OF 3.0 POUNDS PER CUBIC YARD (FORTA-FERRO OR EQUAL), IN LIEU OF WELDED WIRE FABRIC.

REINFORCING STEEL

REINFORCING STEEL SHALL CONFORM TO ASTM A615. BARS SHALL BE GRADE 60 AND SHALL HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI. WELDED WIRE FABRIC SHALL BE SUPPLIED IN FLAT SHEETS AND CONFORM TO ASTM A1064.

REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE ACI 318 AND CRSI "MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION." CONTRACTOR SHALL COORDINATE REINFORCING STEEL PLACEMENT DETAILS AND PROVIDE TEMPLATES FOR PLACING STEEL IN CONGESTED AREAS .

BARS SHALL BE SUPPORTED ON ACCEPTABLE CHAIRS OR HUNG FROM FORMS. WET SET OR LIFTING METHOD IS NOT ALLOWED.

MINIMUM CONCRETE COVER REQUIREMENTS FOR REINFORCING STEEL:

- CONCRETE CAST AGAINST EARTH: 3"
- #6 BARS AND LARGER EXPOSED TO EARTH OR WEATHER: 2"
- #5 BARS AND SMALLER EXPOSED TO EARTH OR WEATHER: 1-1/2"
- BEAM AND COLUMN TIES, STIRRUPS AND SPIRALS: 1-1/2"
- ELEVATED SLAB BARS NOT EXPOSED TO EARTH OR WEATHER: 3/4"

WHERE LAP SPLICE LENGTHS ARE NOT SHOWN OR NOTED, LAP SPLICE CONTINUOUS VERTICAL OR HORIZONTAL BARS IN ACCORDANCE WITH ACI 318, LATEST EDITION, FOR CLASS "B" TENSION LAP SPLICES. SPLICE LOCATIONS AND METHODS SUBJECT TO APPROVAL OF STRUCTURAL ENGINEER.

PROVIDE DOWELS OF SAME SIZE AND NUMBER FROM ADJACENT POUR, BOTH VERTICALLY AND HORIZONTALLY, TO MATCH REINFORCING SHOWN.

FIELD BENDING OF REINFORCING IS NOT PERMITTED EXCEPT AS INDICATED ON THE DRAWINGS OR AS APPROVED BY THE STRUCTURAL ENGINEER.

REINFORCING BAR HOOKS SHALL BE STANDARD ACI HOOKS UNLESS NOTED OTHERWISE.

NO REINFORCING BARS SHALL BE SPLICED BY WELDING. REINFORCING SHALL NOT BE TACK WELDED, WELDED, HEATED OR CUT UNLESS INDICATED ON THE CONTRACT DOCUMENTS OR APPROVED BY THE STRUCTURAL ENGINEER. ALL REINFORCING TO BE WELDED SHALL CONFORM TO ASTM A706, GRADE 60.

STRUCTURAL STEEL

STRUCTURAL STEEL DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH AISC 360 "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS". REFER TO ARCHITECTURAL PLANS FOR FIRE PROOFING REQUIREMENTS.

PROVIDE SHOP DRAWINGS INDICATING ALL SHOP AND ERECTION DETAILS.

STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE FOLLOWING:

- WIDE FLANGE: ASTM A992, GRADE 50 (50 KSI)
- CHANNELS: ASTM A992, GRADE 50 (50 KSI)
- PLATES AND ANGLES: ASTM A36 (36 KSI)
- RECTANGULAR HSS: ASTM A500, GRADE C (50 KSI)
- ROUND HSS: ASTM A500, GRADE C (46 KSI)
- PIPE: ASTM A53, GRADE B (35 KSI)
- ANCHOR RODS, UNO: ASTM F1554, GRADE 36 (36 KSI)
- HEADED STUDS: ASTM A108 (60 KSI)

SPLICING OF STRUCTURAL STEEL MEMBERS IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ENGINEER FOR LOCATION AND TYPE OF SPLICE.

STEEL BEAMS SHALL BE CAMBERED UPWARD WHERE SHOWN ON THE CONTRACT DOCUMENTS. WHERE NO CAMBER IS SPECIFIED, BEAMS SHALL BE FABRICATED SUCH THAT NATURAL CAMBER PRESENT IN BEAM IS UPWARD.

STEEL SHALL BE SHOP-PRIMED WITH A RUST-INHIBITING PRIMER, EXCEPT WHERE GALVANIZING IS INDICATED ON THE DRAWINGS. STRUCTURAL STEEL TO BE GALVANIZED SHALL BE HOT-DIP GALVANIZED IN CONFORMANCE WITH ASTM A123.

WELDING SHALL CONFORM TO AWS D1.1. WELDS SHALL BE MADE USING E70XX ELECTRODES. WELDING SHALL BE BY AWS CERTIFIED WELDERS. PREQUALIFIED WELDING PROCEDURES ARE TO BE USED, UNLESS AWS QUALIFICATION IS SUBMITTED TO THE ENGINEER PRIOR TO FABRICATION.

BOLTED CONNECTIONS SHALL CONFORM TO THE SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.

SHEAR STUD CONNECTORS SHALL BE ELECTRIC-ARC STUD WELDED PER MANUFACTURERS RECOMMENDATIONS AND AWS D1.1. STUDS SHALL BE TYPE 'B' HEADED STUDS OF LENGTH AND DIAMETER SHOWN ON DRAWINGS.

DO NOT FIELD CUT OR FIELD MODIFY ANY STRUCTURAL STEEL WITHOUT PRIOR WRITTEN APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER FOR EACH SPECIFIC CASE.

SAWN LUMBER

LUMBER SHALL BE SOUTHERN PINE #2 WITH THE ALLOWABLE FIBER STRESSES PER THE AWC NATIONAL DESIGN SPECIFICATION.

LUMBER EXPOSED TO WEATHER SHALL BE PROTECTED OR PRESSURE TREATED. LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PROTECTED OR PRESSURE TREATED.

FRAMING NAILS SHALL BE COMMON NAILS OF THE SIZE AND QUANTITY INDICATED ON THE DRAWINGS. NAILING NOT SHOWN SHALL BE AS INDICATED IN TABLE 2304.10.1 OF THE FBC. BOLTS AND LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.1. BOLTS AND LAG SCREWS SHALL BE INSTALLED WITH STANDARD CUT WASHERS.

FRAMING ACCESSORIES AND STRUCTURAL FASTENERS SHALL BE MANUFACTURED BY SIMPSON COMPANY AND OF THE SIZE AND TYPE SHOWN ON THE DRAWINGS. HANGERS NOT SHOWN SHALL BE SIMPSON HU OF SIZE RECOMMENDED FOR MEMBER. ALL CONNECTORS SHALL BE GALVANIZED. INSTALL MAXIMUM SIZE AND NUMBER OF FASTENERS SHOWN IN LATEST SIMPSON CATALOG, UNLESS NOTED OTHERWISE.

USE 2 ROWS OF SIMPSON SDW SCREWS AT 12 INCHES ON CENTER TO CONNECT 2x6 AND 2x8 MULTIPLE PLY HEADERS AND LEDGERS. USE 3 ROWS OF SIMPSON SDW SCREWS AT 12 INCHES ON CENTER TO CONNECT 2x10 AND 2x12 MULTIPLE PLY HEADERS AND LEDGERS.

EXTERIOR WALL SHEATHING SHALL BE 1/2" PLYWOOD OR OSB. ATTACH PLYWOOD PANELS TO SUPPORTING MEMBERS WITH #10 SIMPSON PPHD (OR EQUIVALENT) SCREWS SPACED 6" ON CENTER ALONG THE PANEL EDGES AND AT 8" ON CENTER ALONG INTERMEDIATE SUPPORTS, UNLESS NOTED OTHERWISE ON DRAWINGS.

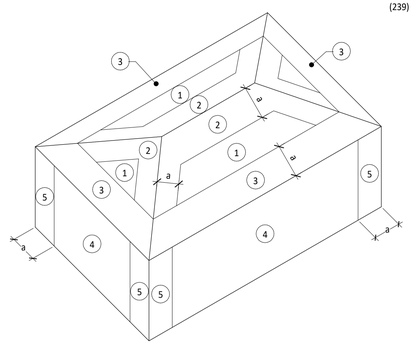
LIGHT GAUGE EXTERIOR METAL FRAMING

LIGHT GAUGE EXTERIOR FRAMING, INCLUDING ALL CONNECTIONS, ANCHORAGE HARDWARE, BRACING, AND FASTENERS SHALL BE IN ACCORDANCE WITH AISI "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" OR THE AISI "LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION FOR COLD-FORMED STEEL STRUCTURAL MEMBERS".

STEEL STUDS AND TRACKS SHALL CONFORM TO ASTM A653 (MINIMUM GRADE 33). EXPOSED FRAMING SHALL HAVE HOT DIPPED GALVANIZED COATING CONFORMING TO ASTM 525 (CLASS G90).

ALL FRAMING MEMBERS SHALL BE CUT SQUARELY. MEMBERS SHALL BE HELD FIRMLY IN PLACE UNTIL PROPERLY JOINED. JOINING OF MEMBERS SHALL BE MADE WITH SELF-DRILLING SCREWS OR WELDING. WIRE TYING OF FRAMING MEMBERS SHALL NOT BE PERMITTED. ATTACHMENT OF MATERIALS TO FRAMING MEMBERS SHALL BE MADE WITH SELF DRILLING SCREWS. STUDS SHALL SIT SQUARELY IN THE TOP AND BOTTOM TRACKS. STUDS SHALL BE PLUMB AND SECURELY FASTENED TO THE FLANGES OF BOTH TOP AND BOTTOM TRACKS

PROVIDE SHOP DRAWINGS AND CALCULATIONS PREPARED BY A DELEGATED ENGINEER LICENSED IN THE STATE OF FLORIDA SUBSTANTIATING ALL STRENGTH, SERVICEABILITY CRITERIA.



ALLOWABLE COMPONENT & CLADDING PRESSURES

		10SF	50SF	100SF
ROOF	1	-55.8 / 30.6	-39.9 / 20.9	-33.1 / 16.7
	2	-73.8 / 30.6	-49.5 / 20.9	-39.0 / 16.7
	3	-79.6 / 30.6	-52.6 / 20.9	-41.0 / 16.7
WALL	4	-44.4 / 41.0	-40.2 / 36.7	-38.3 / 34.8
	5	-54.9 / 41.0	-46.3 / 36.7	-42.6 / 34.8

a = 6.3 ft

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A TENANT IMPROVEMENT FOR:
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GENERAL NOTES

ISSUE HISTORY

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RUTH POWELL LICENSE No. 78318 STATE OF FLORIDA PROFESSIONAL ENGINEER

FOUNDATION PLAN NOTES

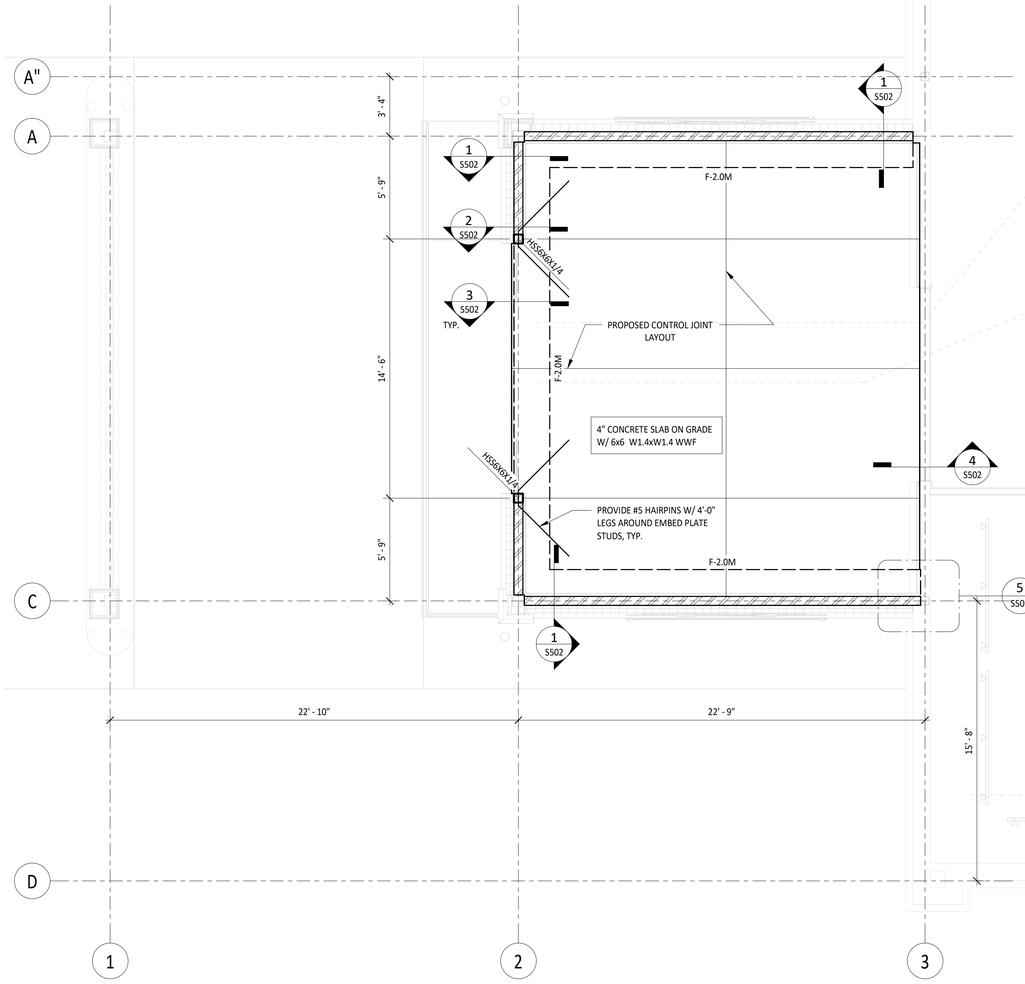
1. REFER TO SHEET S001 FOR GENERAL STRUCTURAL NOTES.
2. COORDINATE DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO COMMENCING CONSTRUCTION. NOTIFY THE ENGINEER AND ARCHITECT OF RECORD OF ANY DISCREPANCIES.
3. COORDINATE THE LOCATION OF ALL UNDERGROUND PIPING WITH THE FOUNDATION.
4. TOP OF FINISH FLOOR ELEVATION IS 0'-0" AND SHALL MATCH THE EXISTING BUILDING. ALL STRUCTURAL ELEMENTS NOTED ON PLAN ARE REFERENCED FROM THIS ELEVATION.
5. REFER TO ARCHITECTURAL DRAWINGS FOR VAPOR BARRIER REQUIREMENTS, SLOPES, STEPS AND DRAIN LOCATIONS IN FLOOR SLABS.
6. COORDINATE EDGE OF SLAB DETAILS AT EXTERIOR DOORS, SILL HEIGHTS AND ROUGH OPENINGS WITH ARCHITECTURAL DRAWINGS.
7. F-X INDICATES FOOTING TYPE. REFER TO SCHEDULES ON THIS SHEET FOR SIZE AND REINFORCING.
8. FOUNDATIONS ARE CAST MONOLITHIC WITH SLAB ON GRADE.

FOUNDATION PLAN SYMBOLS

INDICATES LIGHT GAUGE METAL STUD FRAMED WALL W/ 5/8" DENSGLASS SHEATHING (REFER TO ARCH DWG'S FOR PRODUCT APPROVAL).
BASIS OF DESIGN: 6" x 18ga STUDS @ 16" OC

WALL FOUNDATION SCHEDULE

MARK	WIDTH	THICKNESS	REINFORCEMENT	COMMENTS
F-2.0M	2' - 0"	1' - 8"	(3) #5 CONT	VERIFY EXISTING FOOTING DEPTH



FOUNDATION PLAN

1/4" = 1'-0"

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FOUNDATION PLAN

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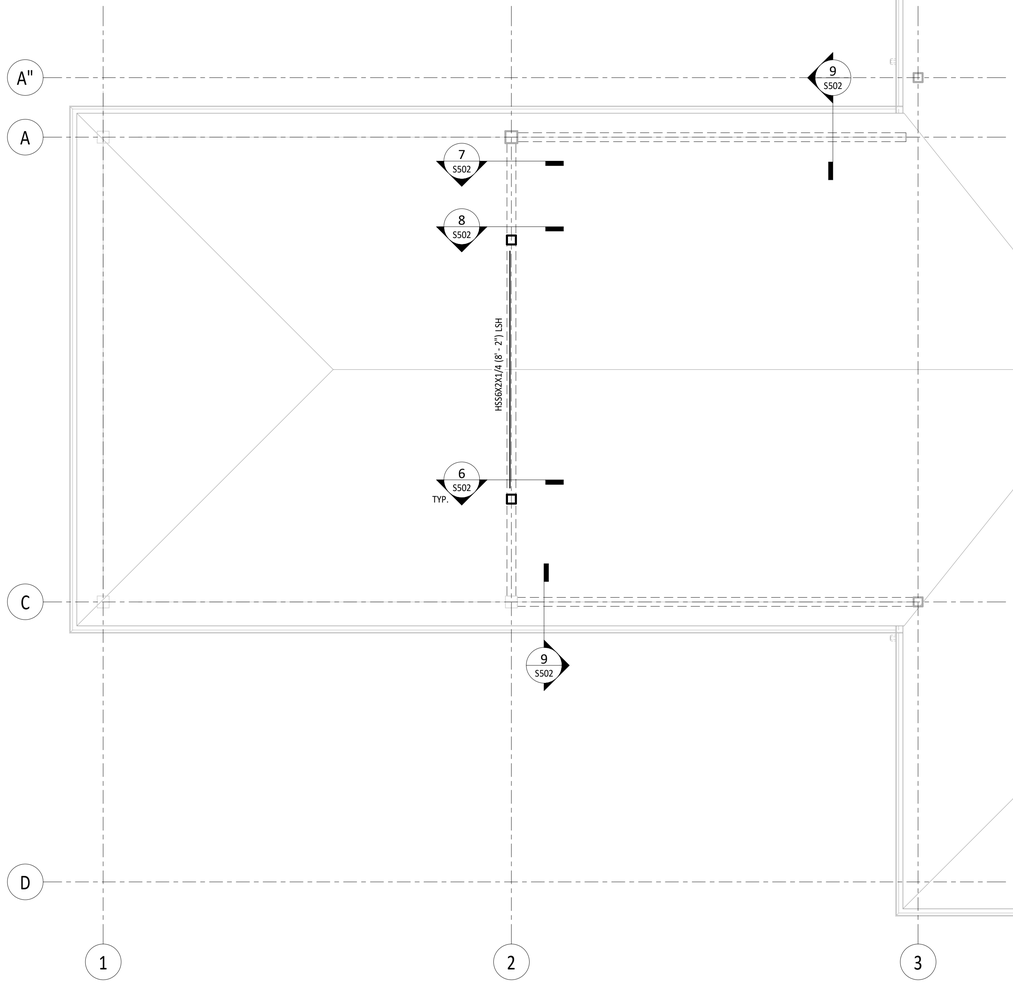
PAGE NUMBER S101

FRAMING PLAN NOTES

1. REFER TO SHEET S001 FOR GENERAL STRUCTURAL NOTES.
2. COORDINATE DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO COMMENCING CONSTRUCTION. NOTIFY THE ENGINEER AND ARCHITECT OF RECORD OF ANY DISCREPANCIES.
3. COORDINATE, CEILING PROFILES, ACCESS LOCATIONS AND ATTIC SPACES WITH ARCHITECTURAL DRAWINGS.



ROOF FRAMING PLAN

1/4" = 1'-0"

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A TENANT IMPROVEMENT FOR:
GOODWILL NAPLES - REIGONS BANK
12621 TAMIAMI TRL E,
NAPLES, FL 34113

ROOF FRAMING PLAN

ISSUE HISTORY

12/24/25	PERMIT SET	

RUTH POWELL — LICENSE — No. 78318 — STATE OF FLORIDA — PROFESSIONAL ENGINEER — FOR THE FIRM — ENGINEERING

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PAGE NUMBER S102

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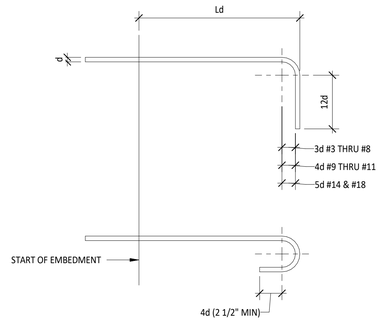


STANDARD HOOKS

HOOKED BAR DEVELOPMENT LENGTH Ld (in)				
BAR SIZE	f'c = 3,000 PSI	f'c = 4,000 PSI	f'c = 5,000 PSI	f'c = 6,000 PSI
#3	9	8	7	6
#4	11	10	9	8
#5	14	12	11	10
#6	17	15	13	12
#7	20	17	15	14
#8	22	19	17	16
#9	25	22	20	18
#10	28	25	22	20
#11	31	27	24	22
#14	38	33	29	27
#18	50	43	39	35

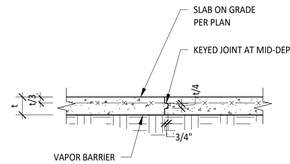
NOTES:
1. TABULATED VALUES ARE BASED ON GRADE 60 REINFORCEMENT AND NORMAL WEIGHT CONCRETE.
2. FOR EPOXY COATED BARS, MULTIPLY THE TABULATED VALUES BY 1.2.

1 STANDARD REBAR HOOKS AND BENDS
1 1/2" = 1'-0"

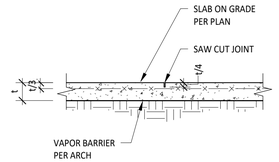
CLASS B LAP SPLICE (in)				
BAR SIZE	f'c = 3,000 PSI	f'c = 4,000 PSI	f'c = 5,000 PSI	f'c = 6,000 PSI
#3	22	19	17	16
#4	29	25	23	21
#5	36	31	28	26
#6	43	37	34	31
#7	63	54	49	45
#8	72	62	56	51
#9	81	70	63	57
#10	91	79	71	64
#11	101	87	78	71

NOTES:
1. TABULATED VALUES ARE BASED ON GRADE 60 REINFORCEMENT AND NORMAL WEIGHT CONCRETE.
2. FOR EPOXY COATED BARS, MULTIPLY THE TABULATED VALUES BY 1.2.

2 CLASS B LAP SPLICE
1 1/2" = 1'-0"

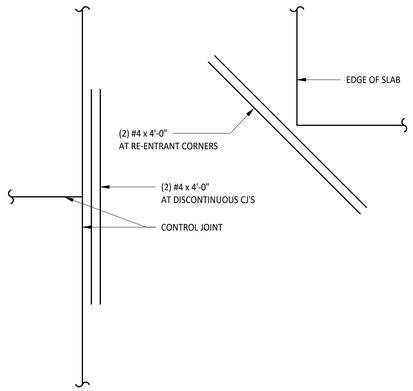


CONSTRUCTION JOINT

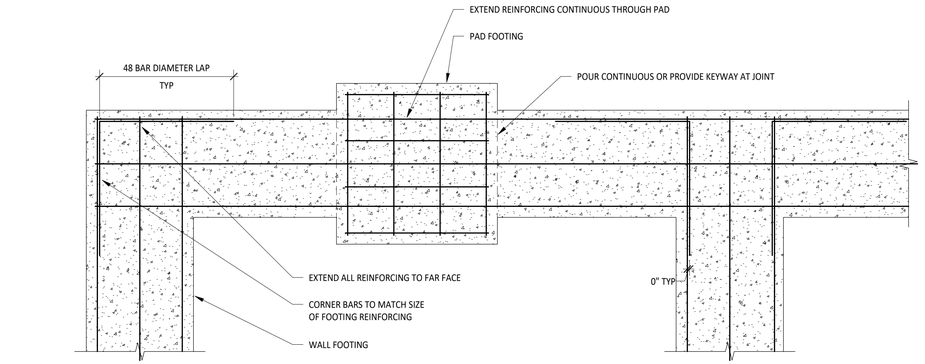


CONTROL JOINT

3 SLAB ON GRADE JOINTS
3/4" = 1'-0"



4 SLAB ON GRADE CRACK CONTROL
3/4" = 1'-0"



5 TYPICAL FOOTING INTERSECTIONS
3/4" = 1'-0"

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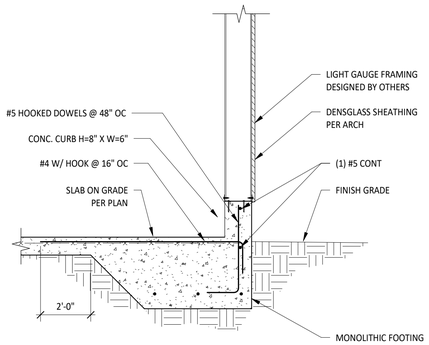
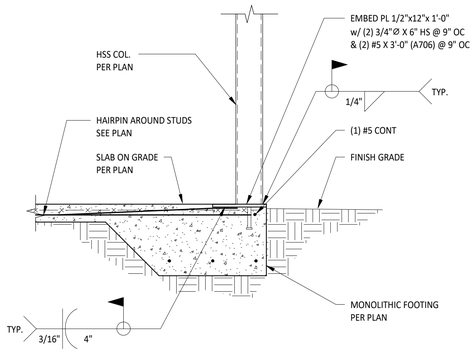
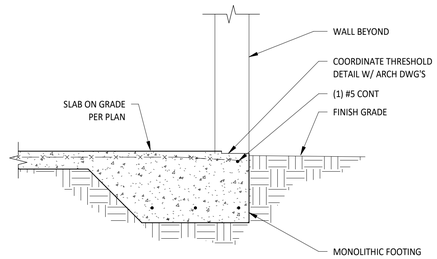


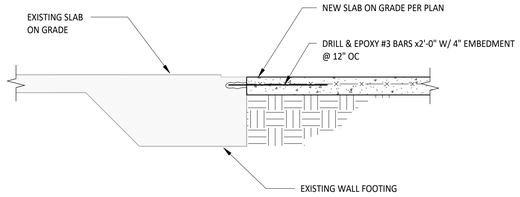
1 EXTERIOR MONOLITHIC FOOTING (LGF)
3/4" = 1'-0"



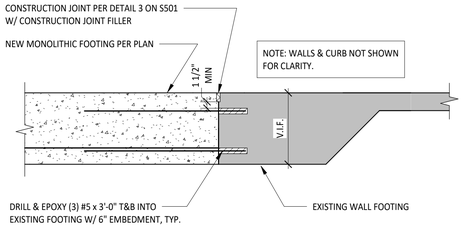
2 EXTERIOR MONOLITHIC FOOTING (HSS)
3/4" = 1'-0"



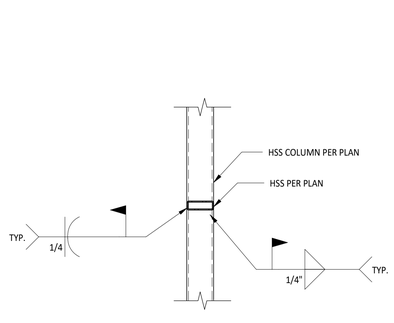
3 EXTERIOR MONOLITHIC FOOTING (EXTERIOR DOOR)
3/4" = 1'-0"



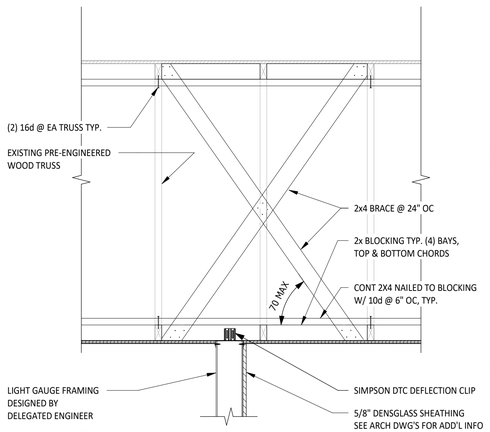
4 SLAB ON GRADE TO EXISTING MONOLITHIC FOOTING
3/4" = 1'-0"



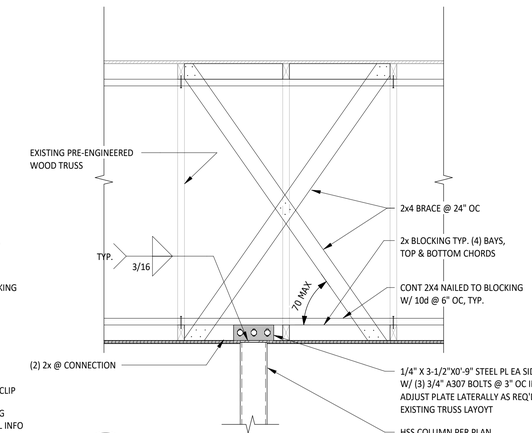
5 NEW TO EXISTING MONOLITHIC FOOTING
3/4" = 1'-0"



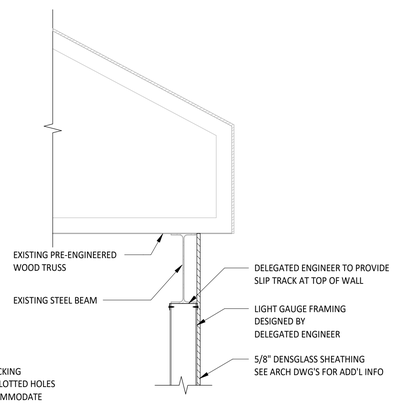
6 HSS TO COLUMN
3/4" = 1'-0"



7 INTERIOR WALL BRACING
3/4" = 1'-0"



8 HSS BRACING
3/4" = 1'-0"



9 LGF TO EXISTING STEEL BEAM
3/4" = 1'-0"

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PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	SOIL/ WASTE	VENT	COLD WATER	HOT WATER	OTHER CONN.	MANUFACTURER	DESCRIPTION
EWC-1	ELECTRIC WATER COOLER ADA COMPLIANT	2"	2"	1/2"	-	-	ELKAY #EZSTL-8-C	• BI-LEVEL ELECTRIC WATER COOLER, 120 VOLT.
L-1A	LAVATORY WALL MOUNTED ADA COMPLIANT	2"	2"	1/2"	1/2"	-	AMERICAN STANDARD LUCERNE™ #0356.028 FACUET AMERICAN STANDARD DELANCEY® #7052807	• WALL HUNG SINK, FRONT OVERFLOW, D SHAPED BOWL. SELF DRAINING DECK AREA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS, FAUCET LEDGE. • TWO HANDLE WIDESPREAD LAVATORY FAUCET, INTEGRATED FLEXIBLE HOSE CONNECTIONS ON VALVE BODY FOR 6" TO 12" (152 MM TO 30 5MM) INSTALLATIONS, 1/4 TURN WASHERLESS CERAMIC DISC VALVE CARTRIDGES
W-1A	WATER CLOSET, FLOOR MOUNTED, ADA COMPLIANT	3"	2"	1/2"	-	-	SLOAN #WETS-8029.8010 ADA ELONGATED SEAT, OPEN FRONT LESS COVER MODEL 295CT	• VITREOUS CHINA; LOW-CONSUMPTION (0.75 GPF). • ELONGATED BOWL. • PRESSURE-ASSISTED SIPHON JET FLUSH ACTION. • 12" ROUGH-IN. • 17" RIM HEIGHT.

COMMERCIAL PLUMBING FIXTURE UNIT CALCULATIONS

FIXTURE	COLD WATER FIXTURE UNITS	HOT WATER FIXTURE UNITS	TOTAL WATER FIXTURE UNITS	DRAINAGE FIXTURE UNITS	# OF FIXTURES	WATER FIXTURE UNIT TOTALS	DRAINAGE FIXTURE UNIT TOTALS	COMMENTS
WATER CLOSET (FLUSH TANK)	5.00	0.00	5.00	4.00	2.0	10	8	
LAVATORY	1.50	1.50	2.00	1.00	2.0	4	2	
HOSE BIBB	5.00	0.00	5.00	0.00	2.0	10	0	
SERVICE SINK	2.25	2.25	3.00	2.00	1.0	3	2	
SINK	3.00	3.00	4.00	2.00	1.0	4	2	
FLOOR DRAIN	0.00	0.00	0.00	5.00	1.0	0	5	
EWC	0.25	0.00	0.25	0.50	1.0	0	1	
TOTAL						31	20	

EXISTING 1" WATER SERVICE PIPE AND 3/4" METER
EXISTING 3" SANITARY

PLUMBING SHEET INDEX

PLUMBING LEGEND

DESCRIPTION	SYMBOL
NEW SANITARY WASTE BELOW SLAB	
NEW SANITARY WASTE ABOVE SLAB	
EXISTING SANITARY WASTE ABOVE SLAB TO REMAIN	
EXISTING SANITARY WASTE TO BE REMOVED	
EXISTING SANITARY WASTE TO BE REMOVED	
GAS, PROPANE LINE	
EXISTING GAS, PROPANE LINE	
NEW VENT	
EXISTING VENT TO REMAIN	
EXISTING VENT TO BE REMOVED	
NEW COLD WATER PIPING	
EXISTING COLD WATER PIPING TO REMAIN	
EXISTING COLD WATER PIPING TO BE REMOVED	
NEW HOT WATER PIPING	
EXISTING HOT WATER PIPING TO REMAIN	
EXISTING HOT WATER PIPING TO BE REMOVED	
NEW HOT WATER RECIRCULATION PIPING	
EXISTING HOT WATER RECIRCULATION PIPING TO REMAIN	
EXISTING HOT RECIRCULATION WATER PIPING TO BE REMOVED	
STORM WATER DRAIN PIPING	
EXISTING STORM WATER DRAIN PIPING	
NEW GREASE/WASTE PIPING	
EXISTING GREASE/WASTE PIPING	
EXISTING GREASE/WASTE PIPING TO BE REMOVED	
TRAP PRIMER PIPING	
TRAP PRIMER	TP
BACK WATER VALVE	
SHUT-OFF VALVE	
SHUT-OFF VALVE WITH VALVE BOX	
FLOOR DRAIN	
FLOOR SINK	
SMOKE DECK	
POINT OF CONNECTION TO EXISTING SYSTEM	
PIPE PENETRATION THROUGH FINISHED FLOOR	
ABBREVIATIONS	
BALL VALVE	BV
AIR ADMITTANCE VALVE	AAV
DOUBLE CHECK BACKFLOW	DCBF
COLD WATER SYSTEM	CW
EXISTING	EX.
FLOOR DRAIN, FLOOR SINK, FLOOR HUB	FS, FD, FH
GENERAL CONTRACTOR	G.C.
GRADE/FLOOR/WALL CLEAN OUT	GCO/FCO/WCO
HOSE-BIBB	HB
HOT WATER SYSTEM (110°F)	HW
HOT WATER RETURN SYSTEM (110°F)	HWR
INDIRECT DRAIN PIPING	ID
INVERT ELEVATION BELOW FINISHED FLOOR OR GRADE. I	IE
PLUMBING CONTRACTOR	P.C.
TEMPERATURE & PRESSURE RELIEF VALVE	T&P
UNLESS OTHERWISE NOTED	U.O.N.

BASIC PLUMBING MATERIAL REQUIREMENTS:

SOIL WASTE, VENT, ROOF DRAIN PIPING ABOVE GRADE:
- [ ] CAST IRON, NO HUB, WITH STAINLESS STEEL CLAMPS
- [X] PVC-DWV, SCHEDULE 40

SOIL WASTE, VENT, ROOF DRAIN PIPING BELOW GRADE:
- [ ] CAST IRON, NO HUB, WITH STAINLESS STEEL CLAMPS
- [X] PVC-DWV, SCHEDULE 40

WATER PIPING ABOVE GRADE:
- [ ] COPPER, TYPE L
- [X] CPVC, SCHEDULE 40, RETURN AIR PLENUM RATED

WATER PIPING BELOW GRADE:
- [X] COPPER, TYPE K, NO JOINTS BELOW GRADE
- [ ] CPVC

FUEL GAS PIPING:
- [X] SEAMLESS BLACK STEEL PIPE
- [ ] PVC

NOTES:
- [X] UTILIZE MATERIALS ABOVE UNLESS NOTED OTHERWISE ON PLANS

PLUMBING SPECIFICATIONS

PART 1 - GENERAL
0.01 GENERAL SCOPE

A. THIS PROJECT WILL REQUIRE INSTALLATION OF PLUMBING SYSTEMS AS INDICATED.

B. GENERAL CONTRACTOR SHALL FURNISH OWNER WITH COPIES OF AS-BUILTS, WARRANTIES AND OWNER'S MANUALS PRIOR TO REQUESTING FINAL PAYMENT.

1.01 GENERAL DOCUMENTS

A. INSTALLATION SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 7TH EDITION 2023 (EFFECTIVE 12/31/2023). WHICH INCLUDES THE FLORIDA BUILDING CODE, PLUMBING AND FUEL GAS CODES. ALL EQUIPMENT SHALL BE UL LISTED.

B. THE PLUMBING WORK SHALL INCLUDE FURNISHING ALL LABOR, EQUIPMENT, MATERIALS AND SERVICE NECESSARY FOR THE PROPER COMPLETION OF ALL PLUMBING WORK SHOWN ON THE DRAWINGS AND AS SPECIFIED. ALL MATERIAL SHALL BE NEW.

C. THIS ENGINEER IS NOT RESPONSIBLE FOR MATERIALS, METHODS, INSTALLATION, AND CONSTRUCTION WHICH DEVIATE FROM THESE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.

1.02 SUBMITTALS

A. MATERIALS OR PRODUCTS SPECIFIED HEREIN AND/OR INDICATED ON DRAWINGS BY TRADE NAME, MANUFACTURER'S NAME OR CATALOG NUMBERS SHALL BE INTERPRETED AS ESTABLISHING A STANDARD OF QUALITY AND DESIGN. SUBSTITUTIONS MAY BE ALLOWED IF THEY MEET THE QUALITY STANDARDS AND DESIGN INTENT, UNLESS OTHERWISE NOTED.

B. PRIOR TO STARTING THE PROJECT, THE PLUMBING CONTRACTOR SHALL STUDY THE COMPLETE SET OF CONSTRUCTION DOCUMENTS AND COORDINATE WITH THE MANUFACTURER(S) AS REQUIRED TO PROVIDE EQUIPMENT SUBMITTALS TO SUBMIT TO PLUMBING ENGINEER OF RECORD FOR REVIEW AND APPROVAL. THE EQUIPMENT SUBMITTALS SHALL INCLUDE DIMENSIONS, WEIGHTS, SPECIFIED ACCESSORIES AND REQUIRED CLEARANCES, AS WELL AS PUMP CURVES, SOUND LEVELS, CONSTRUCTION DETAILS, WARRANTY INFORMATION, AND ALL OTHER RELEVANT DATA.

C. IF SUBSTITUTIONS TO THE BASIS OF DESIGN ARE SUBMITTED, THE PLUMBING CONTRACTOR SHALL PROVIDE A CLEAR, DETAILED SUMMARY IN THE SUBMITTALS OF THE DIFFERENCES BETWEEN THE SUBMITTED EQUIPMENT AND THE BASIS OF DESIGN. ADDITIONALLY, PLUMBING CONTRACTOR SHALL PROVIDE AN AFFIDAVIT STATING THAT PROPOSED SUBSTITUTION IS AN EQUAL TO THAT WHICH IS SPECIFIED. PLUMBING ENGINEER OF RECORD MAY ACCEPT OR REJECT THE SUBSTITUTIONS.

1.03 SHOP DRAWINGS

A. FURNISH SIX (6) COPIES OF SHOP DRAWINGS OF EQUIPMENT, FIXTURES AND SYSTEM LAYOUT TO GENERAL CONTRACTOR AND MECHANICAL ENGINEER OF RECORD PRIOR TO PURCHASING ANY EQUIPMENT AND BEGINNING WORK.

1.04 RECORD DRAWINGS

A. AFTER COMPLETION OF ALL WORK, THE PLUMBING CONTRACTOR SHALL PROVIDE THE GENERAL CONTRACTOR WITH AS BUILT RECORD DRAWINGS. PLUMBING CONTRACTOR SHALL KEEP A RECORD OF THE LOCATIONS OF ALL CONCEALED WORK AND UPON COMPLETION OF THE JOB, SHALL SUPPLY AS-BUILT DRAWINGS SHOWING ANY DEVIATION FROM THE ORIGINAL DRAWINGS. THESE DRAWINGS SHALL INDICATE DIMENSION OF BURIED UTILITY LINES FROM BUILDING WALLS.

PART 2 - INSTALLATION

2.01 MATERIAL

A. SOIL, WASTE, VENT, & ROOF DRAIN PIPING DRAINAGE PIPING:
- A.A. CAST IRON - SERVICE WEIGHT CAST IRON, NO HUB, WITH STAINLESS STEEL CLAMPS AND SHIELDS WITH NEOPRENE SEALING SLEEVES
- A.B. PVC - PVC-DWV SCHEDULE 40 PIPE AND BELOW SLAB SHALL BE PVC-DWV SCHEDULE 40 PIPE AND FITTINGS WITH SOLVENT WELD JOINTS AND DRAINAGE PATTERN FITTINGS.
- A.C. REFER TO BASIC PLUMBING MATERIAL REQUIREMENTS CHART ON THIS SHEET FOR MATERIAL SELECTION.
- A.D. SAW CUT FLOOR AS NECESSARY FOR INSTALLATION OF NEW SANITARY DRAINAGE PIPING. REPAIR/PATCH FLOOR TO MATCH ADJACENT AREAS.

B. DOMESTIC WATER PIPING:
- B.A. TYPE L COPPER - TUBING WITH LEAD FREE SOLDER JOINTS.
- B.B. TYPE K COPPER - TUBING WITH LEAD FREE SOLDER JOINTS.
- B.C. COPPER FITTINGS - PIPE FITTING SHALL BE WROUGHT COPPER.
- B.D. SCHEDULE 40 CPVC WITH SOLVENT WELD JOINTS ASTM 02846, F441 & F442 INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS.
- B.E. REFER TO BASIC PLUMBING MATERIAL REQUIREMENTS CHART ON THIS SHEET FOR MATERIAL SELECTION.

C. PIPE INSULATION: HOT WATER SUPPLY AND RETURN PIPING SHALL BE INSULATED WITH 1" THICK R-6 MINIMUM FIBERGLASS OR EQUAL, IN COMPLIANCE WITH APPLICABLE ENERGY CODES, STORM WATER PIPING INCLUDING ROOF DRAIN SUMPS, ALL HORIZONTAL RAINWATER LEADERS & ANY PIPING ABOVE SLAB RECEIVING COLD WATER DISCHARGE FROM A/C UNITS, ICE MACHINES ETC. SHALL BE INSULATED WITH 1" THICK R-6 MINIMUM FIBERGLASS (OR EQUAL) INSULATION WITH VAPOR JACKET.

2.02 VALVES

A. EQUAL TO NIBCO, CRANE, OR WALWORTH. ALL BRONZE 150 LB. BALL VALVES WITH RISING STEMS.

2.03 SPECIALTIES

A. PIPE PROTECTIVE COATING: FOR STEEL OR COPPER PIPE, PERMACEL OR SCOTCHWRAP VINYL TAPE APPLIED OVER PIPE TO A TOTAL MINIMUM THICKNESS OF 20 MILS. APPLY TO ALL WATER PIPE IN CONTACT WITH MASONRY OR CONCRETE.

B. PIPE HANGERS: HANGERS FOR BARE COPPER PIPE THROUGH 4 INCH (4") DIAMETER OR SMALLER SHALL BE ADJUSTABLE RING TYPE, PLASTIC COATED EQUAL TO MICHIGAN 102a, FOR STEEL PIPE MICHIGAN 100.

C. DRAINS AND CLEANOUTS: SEE SCHEDULE ON DRAWINGS.

D. DIELECTRIC UNIONS: PROVIDE EBCO OR CAPITOL DIELECTRIC UNIONS AT ALL POINTS OF CONNECTION BETWEEN DISSIMILAR PIPE METALS.

E. FLASHING AND VENT STACKS: ALL VENTS EXTENDING THROUGH THE ROOF SHALL BE PROVIDED WITH FOUR POUND SHEET LEAD FLASHING EXTENDING UPWARD AROUND THE PIPE AND TURNED DOWN INSIDE THE PIPE OR AS OTHERWISE SHOWN ON THE DRAWINGS. THE ROOF FLASHING SHALL BE INSTALLED BY LICENSED ROOFING CONTRACTOR.

F. ESCUTCHEONS AND SLEEVES. WHERE PIPES PIERCE EXPOSED PARTITIONS, FLOORS, WALL, OR CEILINGS, PROVIDE CHROME PLATED ESCUTCHEONS TO THE COVER THE RAW EDGE.

G. SLEEVES SHALL BE PROVIDED AT ALL PIPE PENETRATIONS OF MASONRY AND CONCRETE WALLS AND FLOORS.

H. PROVIDE UL LISTED FIRE STOPPING PIPE PENETRATION ASSEMBLIES AT ALL PIPING THROUGH RATED WALLS AND ASSEMBLIES.

I. TRAP PRIMERS: RESEAL ALL FLOOR DRAIN TRAPS WITH ¾" WATER LINE CONNECTED TO A TRAP PRIMER FITTING IN THE COLD WATER SUPPLY LINE SERVING A FREQUENTLY USED PLUMBING FIXTURE.

J. ADA WRAP: HANDICAPPED LAVATORIES SHALL HAVE ADA APPROVED UNDER COUNTER WRAP FOR WASTE AND WATER PIPING.

PART 3 - EXECUTION

3.01 INSTALLATION

A. INSTALL PIPE ABOVE GROUND PLUMB AND SQUARE WITH BUILDING LINES, ADEQUATELY SUPPORTED WITHOUT SAGS OR HIGH POINTS, CONCEAL PIPING IN OCCUPIED AREAS AND MAINTAIN HEAD ROOM AND ACCESS SPACE IN UNFINISHED AREAS. SLEEVE PIPING THROUGH ALL WALLS, SLABS, OR PARTITIONS WITH ESCUTCHEONS AT ALL FINISHED SURFACE. PROVIDE UNIONS AT ALL FINAL CONNECTIONS AND STOPS ON ALL SUPPLIES. ALL PIPE OPENINGS SHALL BE PLUGGED DURING INSTALLATION.

B. DRAINAGE PIPING 3" & LARGER SHALL BE INSTALLED WITH A MINIMUM 1/8" PER FOOT SLOPE UNLESS NOTED OTHERWISE. ALL DRAINAGE PIPING 2-1/2" AND SMALLER SHALL BE INSTALLED WITH A MINIMUM OF 1/4" PITCH PER FOOT.

C. ALL FIXTURES AND TRIM FOR HANDICAPPED SHALL BE INSTALLED IN COMPLIANCE WITH ADA CODE.

D. INSTALL ALL PIPING TO ALLOW FOR EXPANSION.

E. SEE RISER DIAGRAMS FOR ALL DRAINAGE & VENT PIPE SIZING FOR THE PLUMBING SYSTEMS. REFER TO PLUMBING FLOOR PLAN (WATER SYSTEM) & SCHEDULES FOR ALL WATER PIPING SYSTEM SIZING.

F. ALL WORK ASSOCIATED WITH HANDICAPPED TOILETS SHALL COMPLY WITH ADA REQUIREMENTS AND FLORIDA BUILDING CODE - CHAPTER 11 FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION.

G. FINAL CONNECTIONS TO DRAINAGE AND WATER SERVICE LINES TO EXISTING OR NEW AS SHOWN ON THESE DOCUMENTS SHALL BE BY THE PLUMBING CONTRACTOR.

3.02 DISINFECTING OF POTABLE WATER SYSTEM

A. THE SYSTEM SHALL BE FILLED WITH A SOLUTION CONTAINING 50 PARTS PER MILLION OF AVAILABLE CHLORINE AND ALL ALLOWED TO STAND 24 HOURS BEFORE FLUSHING AND RETURNING TO SERVICE. DISINFECTION PROCEDURE AND RESULT SHALL BE SUBJECT TO THE APPROVAL OF THE LOCAL PLUMBING INSPECTOR.

3.03 TEST

A. ALL PLUMBING SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE PLUMBING. ALL TESTS SHALL BE APPROVED BY THE LOCAL PLUMBING INSPECTOR AND SHALL BE OBSERVED BY A REPRESENTATIVE OF THE OWNER.

3.04 SYSTEM IDENTIFICATION

A. THE PLUMBING CONTRACTOR SHALL PROVIDE IDENTIFICATION TAGS FOR ALL NEW PIPING AND VALVES IN THE BUILDING AS PER OWNER ACCEPTED STANDARDS, THE PIPE MARKS SHALL INCLUDE PIPING SYSTEM IDENTIFICATION AND DIRECTIONS OF FLOW. EVERY 10 FEET AND CHANGES OF DIRECTION.

3.05 SPECIFICATIONS AND DRAWINGS

A. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL COMPLETE SANITARY, STORM, AND DOMESTIC WATER PIPING SYSTEMS: INCLUDING ALL ASSOCIATED DEVICES, EQUIPMENT, CONTROLS, AND CONNECTIONS TO NEW SERVICES, SUPPORTS, AND HARDWARE REQUIRED FOR THE SATISFACTORY OPERATIONS OF THE SYSTEMS, WHETHER SPECIFICALLY SHOWN OR NOT ON THE DRAWINGS.

B. THE PLANS SHOW THE LOCATION OF ALL FIXTURES AND EQUIPMENT AND ARE INTENDED TO DEPICT THE GENERAL INTENT OF THE WORK IN SCOPE, LAYOUT, AND QUALITY OF WORKMANSHIP. THEY ARE NOT INTENDED TO SHOW IN MINUTE DETAIL EVERY AND ALL ACCESSORIES INTENDED FOR THE PURPOSE OF EXECUTION OF THE WORK, BUT IT SHALL BE UNDERSTOOD THAT SUCH DETAILS SHALL BE PART OF THIS WORK.

C. THE DRAWINGS AND SPECIFICATIONS ARE MEANT TO BE SUPPLEMENTARY, HOWEVER, WHERE DRAWINGS AND SPECIFICATIONS CONFLICT, IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO BRING SUCH CONFLICT TO THE ATTENTION OF PLUMBING ENGINEER OF RECORD FOR CLARIFICATION.

D. REFER TO ARCHITECTURAL DRAWINGS AND VERIFY FIELD CONDITIONS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES.

E. ALL DOCUMENTS, TEST REPORTS, & AS-BUILT DRAWINGS SHALL BE ATTACHED TO THE CLOSING DOCUMENTS OF THE PROJECT.

3.06 WARRANTY

A. THE PLUMBING CONTRACTOR SHALL WARRANT ITS WORK TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE OF ALL WORK.

B. THE PLUMBING CONTRACTOR SHALL PROVIDE FIVE (5) BOUND COPIES OF ALL PLUMBING CONTRACTOR WARRANTIES, MANUFACTURER'S WARRANTIES, PARTS LISTS, AND INSTALLATION AND MAINTENANCE MANUALS FOR ALL PLUMBING EQUIPMENT, AS WELL AS INSTRUCTIONS FOR OPERATING AND MAINTAINING ALL PLUMBING EQUIPMENT TO THE OWNER UPON FINAL COMPLETION.

3.07 COORDINATION

A. COORDINATE WORK WITH OTHER TRADES AND EXISTING CONDITIONS PRIOR TO BEGINNING WORK. PLUMBING CONTRACTOR SHALL PROVIDE ROUTING AND OFFSETS NECESSARY TO AVOID CONFLICT WITH STRUCTURE, FINISHES, AND WORK OF OTHER TRADES.

B. VERIFY LOCATIONS, SIZES, AND INVERT ELEVATIONS OF PIPING CONNECTIONS WITH FIELD CONDITIONS AND CIVIL ENGINEERING DRAWINGS (AS APPLICABLE) PRIOR TO PROCEEDING WITH THE WORK. SHOULD ANY DISCREPANCIES BE DISCOVERED, PLUMBING CONTRACTOR SHALL SUBMIT A REQUEST FOR INFORMATION TO PLUMBING ENGINEER OF RECORD.

C. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR WALL AND PARTITION CONSTRUCTION AND THICKNESS WHERE PLUMBING PIPING, FIXTURES CARRIERS OR EQUIPMENT IS INDICATED. BEFORE STARTING CONSTRUCTION. IDENTIFY ANY CONFLICT PRIOR TO STARTING CONSTRUCTION.

D. COORDINATE EXACT LOCATION, ELEVATIONS, AND SIZES OF ALL SLEEVES IN NEW STRUCTURE WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS.

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FORT MYERS, FL 33907
P: 239 275.0225

BUILDING REMODEL FOR:
GOODWILL NAPLES - REGIONS BANK
12621 Tamiami Trl E,
Naples, FL 34113

PLUMBING GENERAL

GS JOB #: 6109.22.00

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MAKSIM A. SEGAL
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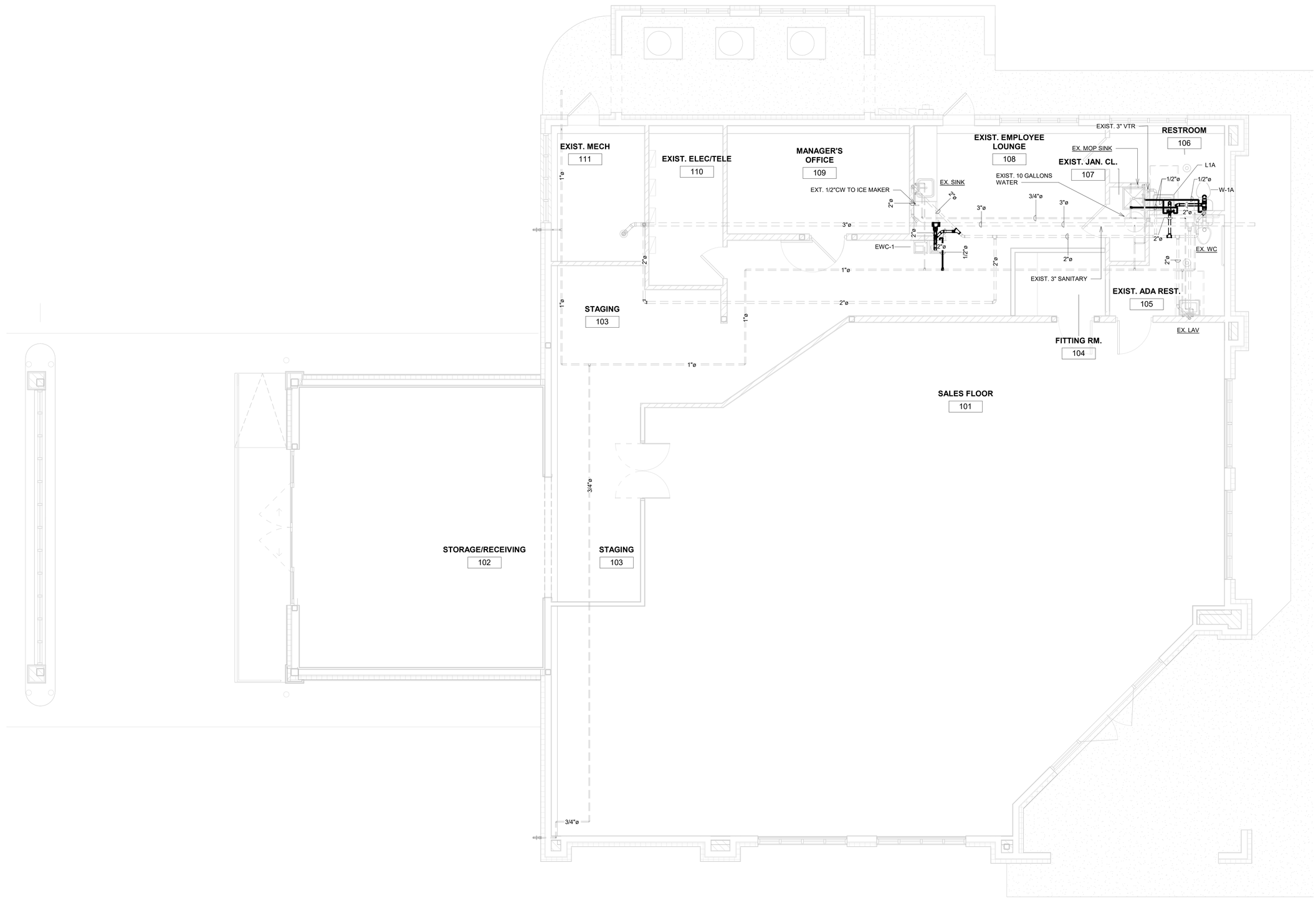

1 PLUMBING SANITARY FLOOR PLAN
P101 1/4" = 1'-0"

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PLUMBING SANITARY FLOOR PLAN

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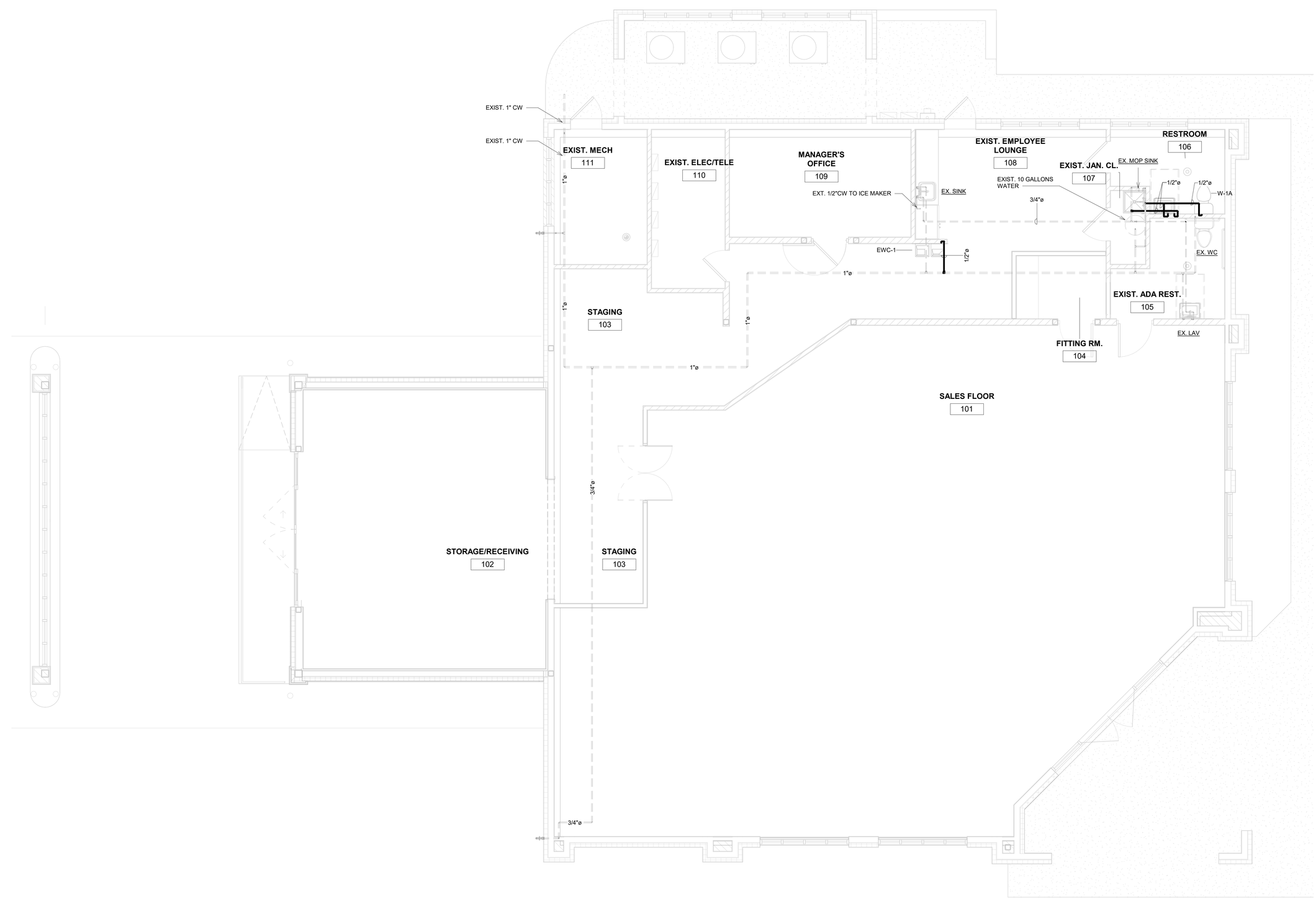

1 PLUMBING WATER FLOOR PLAN
P102 1/4" = 1'-0"

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THE DESIGN PROFESSIONAL WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO FOLLOW THE DESIGN PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED.

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PLUMBING WATER FLOOR PLAN

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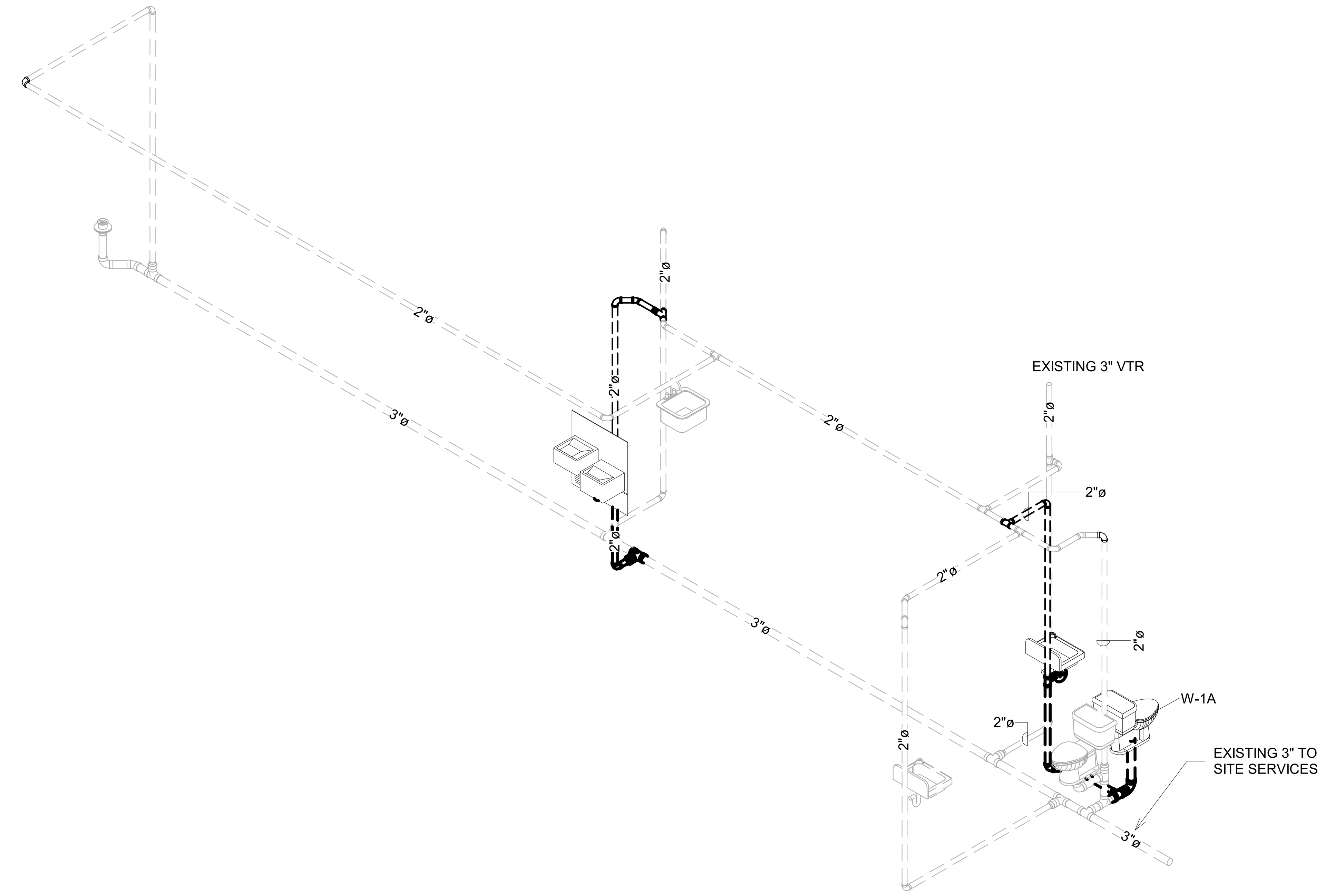
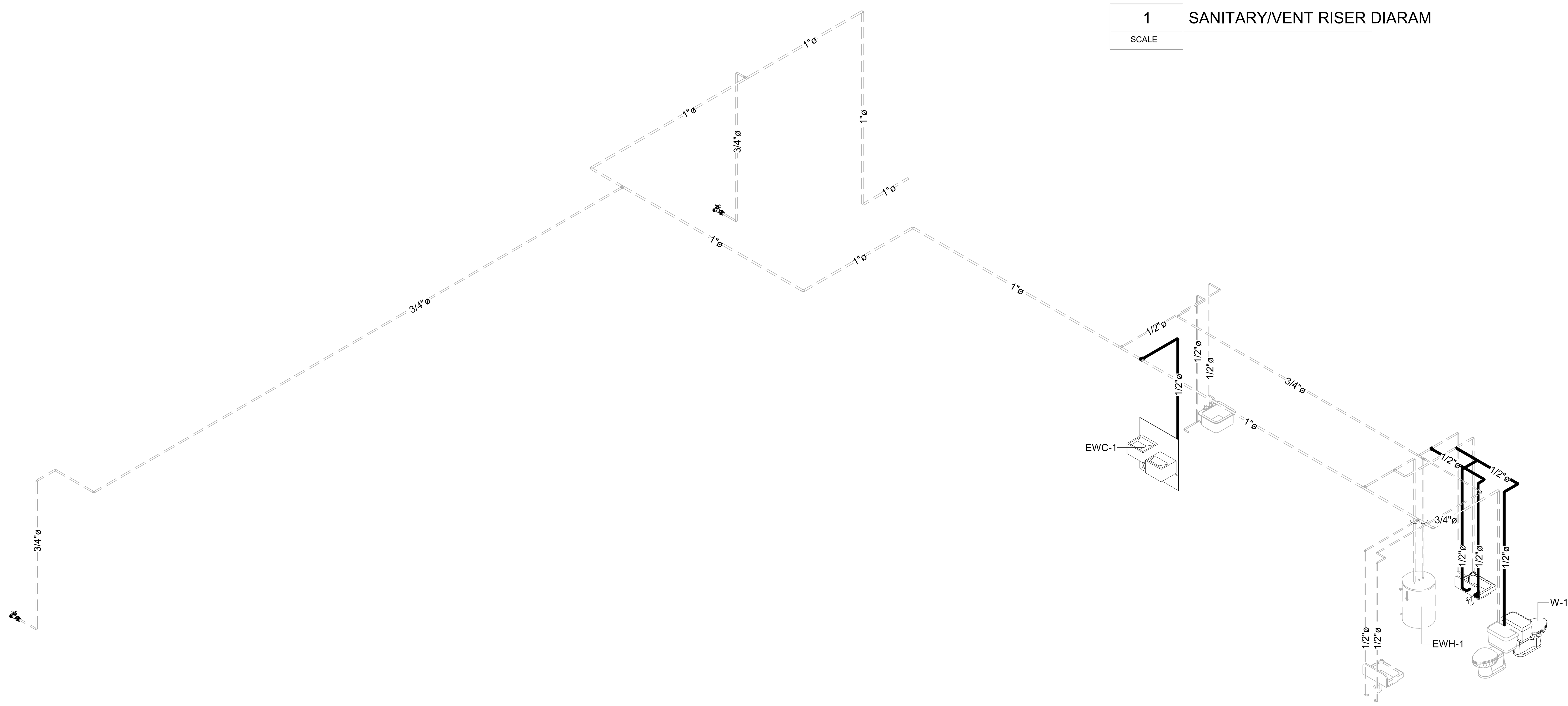


1 SANITARY/VENT RISER DIARAM

SCALE



2 WATER PIPING RISER DIARAM

SCALE

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PLUMBING RISER DIAGRAMS

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PAGE NUMBER P801

MECHANICAL SPECIFICATIONS

PART 1 - GENERAL
0.01 GENERAL SCOPE

A. THIS PROJECT WILL REQUIRE INSTALLATION OF NEW HVAC SYSTEMS AS INDICATED.

1.01 GENERAL DOCUMENTS

A. INSTALLATION SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 8TH EDITION 2023 (EFFECTIVE 12/31/2023), WHICH INCLUDES THE FLORIDA BUILDING CODE, MECHANICAL, FLORIDA BUILDING CODE, ENERGY CONSERVATION, AS WELL AS FLORIDA FIRE PREVENTION CODE, 8TH EDITION 2023 (EFFECTIVE 12/31/2023). ALL EQUIPMENT SHALL BE UL LISTED.

B. THE MECHANICAL WORK SHALL INCLUDE FURNISHING ALL LABOR, EQUIPMENT, MATERIALS AND SERVICE NECESSARY FOR AND REASONABLY INCIDENTAL TO THE PROPER COMPLETION OF ALL MECHANICAL WORK SHOWN ON THE DRAWINGS AND AS SPECIFIED. ALL MATERIAL SHALL BE NEW.

C. EACH PROSPECTIVE MECHANICAL CONTRACTOR SHALL EVALUATE THE SCOPE OF WORK THOROUGHLY PRIOR TO SUBMITTING A BID.

D. SOME CONDUIT, PIPING, AND OTHER OBSTACLES MAY NEED TO BE RELOCATED AND SUCH RELOCATION SHOULD BE INCLUDED IN EACH PROSPECTIVE MECHANICAL CONTRACTOR'S BID.

E. THIS ENGINEER IS NOT RESPONSIBLE FOR MATERIALS, METHODS, INSTALLATION, AND CONSTRUCTION WHICH DEVIATE FROM THESE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.

1.02 SUBMITTALS

A. MATERIALS OR PRODUCTS SPECIFIED HEREIN AND/OR INDICATED ON DRAWINGS BY TRADE NAME, MANUFACTURER'S NAME OR CATALOG NUMBERS SHALL BE INTERPRETED AS ESTABLISHING A STANDARD OF QUALITY AND DESIGN. SUBSTITUTIONS MAY BE ALLOWED IF THEY MEET THE QUALITY STANDARDS AND DESIGN INTENT, UNLESS OTHERWISE NOTED.

B. PRIOR TO STARTING THE PROJECT, THE MECHANICAL CONTRACTOR SHALL STUDY THE COMPLETE SET OF CONSTRUCTION DOCUMENTS AND COORDINATE WITH THE MANUFACTURER(S) AS REQUIRED TO PROVIDE EQUIPMENT SUBMITTALS TO SUBMIT TO THIS ENGINEER FOR REVIEW AND APPROVAL. THE EQUIPMENT SUBMITTALS SHALL INCLUDE DIMENSIONS, WEIGHTS, SPECIFIED ACCESSORIES AND REQUIRED CLEARANCES, AS WELL AS FAN CURVES, SOUND LEVELS, CONSTRUCTION DETAILS, WARRANTY INFORMATION, AND ALL OTHER RELEVANT DATA.

C. IF ALTERNATES TO THE BASIS OF DESIGN ARE SUBMITTED, THE MECHANICAL CONTRACTOR SHALL PROVIDE A CLEAR, DETAILED SUMMARY IN THE SUBMITTALS OF THE DIFFERENCES BETWEEN THE SUBMITTED EQUIPMENT AND THE BASIS OF DESIGN. MECHANICAL ENGINEER OF RECORD MAY ACCEPT OR REJECT THE ALTERNATES.

1.03 SHOP DRAWINGS

A. PRIOR TO STARTING THE PROJECT, THE MECHANICAL CONTRACTOR SHALL STUDY THE COMPLETE SET OF CONSTRUCTION DOCUMENTS AND COORDINATE WITH THE OTHER TRADES AS REQUIRED TO PROVIDE SHOP DRAWINGS TO SUBMIT TO MECHANICAL ENGINEER OF RECORD FOR APPROVAL. THE SHOP DRAWINGS MAY BE SUBMITTED AS HAND-DRAWN NOTES UPON A COPY OF THE CONSTRUCTION DOCUMENTS. THE CONSTRUCTION DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND INTENDED SOLELY TO CLARIFY THE SCOPE OF WORK AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS. THE CONSTRUCTION DOCUMENTS ARE NOT INTENDED TO ALERT THE MECHANICAL CONTRACTOR OF ALL OBSTACLES. THE SHOP DRAWINGS SHALL SHOW THE COORDINATION OF DUCTWORK AND MECHANICAL EQUIPMENT INSTALLATION WITH EXISTING AND NEW OBSTACLES INCLUDING, BUT NOT LIMITED TO, ELECTRICAL CONDUITS, FIRE PROTECTION PIPING, RAIN LEADERS, SANITARY DRAINS, STRUCTURAL MEMBERS, AND WATER PIPING, AS WELL AS THE MECHANICAL EQUIPMENT MANUFACTURERS' RECOMMENDED CLEARANCES. THE MECHANICAL CONTRACTOR SHALL ALSO SHOW THE EXISTING CONDITIONS ON THE SHOP DRAWINGS WHERE THE EXISTING CONDITIONS ARE DIFFERENT FROM THOSE SHOWN ON THE CONSTRUCTION DOCUMENTS.

B. FURNISH SIX (6) COPIES OF SHOP DRAWINGS OF EQUIPMENT, MATERIALS AND SYSTEM LAYOUT TO GENERAL CONTRACTOR AND MECHANICAL ENGINEER OF RECORD PRIOR TO PURCHASING ANY EQUIPMENT AND BEGINNING WORK.

1.04 RECORD DRAWINGS

A. AFTER COMPLETION OF ALL WORK, THE MECHANICAL CONTRACTOR SHALL PROVIDE THE GENERAL CONTRACTOR WITH AS BUILT RECORD DRAWINGS. MECHANICAL CONTRACTOR SHALL KEEP A RECORD OF THE LOCATIONS OF ALL CONCEALED WORK AND UPON COMPLETION OF THE JOB, SHALL SUPPLY AS-BUILT DRAWINGS SHOWING ANY DEVIATION FROM THE ORIGINAL DRAWINGS. THESE DRAWINGS SHALL INDICATE DIMENSION OF BURIED UTILITY LINES FROM BUILDING WALLS.

PART 2 - INSTALLATION

2.01 EQUIPMENT

A. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED AS REQUIRED BY THE MANUFACTURER'S' INSTALLATION AND MAINTENANCE MANUALS. THOSE MANUALS WILL TYPICALLY PROVIDE MORE DETAIL THAN THE CONSTRUCTION DOCUMENTS. IF THERE IS A CONFLICT BETWEEN THE INSTALLATION AND MAINTENANCE MANUALS AND THE CONSTRUCTION DOCUMENTS, THEN THE MECHANICAL CONTRACTOR SHALL SUBMIT A REQUEST-FOR-INFORMATION TO MECHANICAL ENGINEER OF RECORD.

B. VIBRATION ISOLATION: THE MECHANICAL CONTRACTOR SHALL PROVIDE VIBRATION ISOLATION AS RECOMMENDED BY THE MANUFACTURER(S) AND/OR REQUIRED BY MECHANICAL ENGINEER OF RECORD TO ENSURE QUIET OPERATION OF THE MECHANICAL EQUIPMENT. NO UNDUE VIBRATION OR SOUND SHALL BE TRANSMITTED TO THE STRUCTURE OR ANY OCCUPIED SPACES WITHIN THE STRUCTURE.

C. FILTERS: THE MECHANICAL CONTRACTOR SHALL PROVIDE FILTER RACKS FOR THE MECHANICAL EQUIPMENT AS REQUIRED. THE FILTER RACKS SHALL BE INSTALLED SUCH THAT SUFFICIENT CLEARANCES ARE PROVIDED FOR MAINTENANCE AND SHALL BE SEALED AIRTIGHT. THE MECHANICAL CONTRACTOR SHALL PROVIDE A TOTAL OF THREE (3) COMPLETE SETS OF FILTERS FOR ALL MECHANICAL EQUIPMENT IN THE SIZE AND ARRANGEMENT RECOMMENDED BY THE MANUFACTURER. THE FILTERS SHALL PROVIDE ASHRAE FILTRATION EFFICIENCY AS SHOWN ON THE CONSTRUCTION DOCUMENTS OR 30% ASHRAE FILTRATION EFFICIENCY (MERV 6) IF NO HIGHER VALUE IS SPECIFIED.

D. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL STARTERS, CONTACTORS, RELAYS, CONTROLS, AND ACCESSORIES NECESSARY TO PROVIDE A COMPLETE AND WORKING POWER AND CONTROL SYSTEM FOR THE MECHANICAL EQUIPMENT WITHIN THE SCOPE OF WORK. THE ELECTRICAL CONTRACTOR WILL PROVIDE ALL DISCONNECT SWITCHES, CONDUIT, AND WIRING FOR THE MECHANICAL EQUIPMENT WITHIN THE SCOPE OF WORK. ALL ELECTRICAL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER OPERATION OF THE COMPLETE SYSTEM AND SHALL ENSURE THAT WIRING DIAGRAMS ARE PROVIDED TO THE GENERAL CONTRACTOR. NO WIRING OF ANY KIND SHALL BE EXPOSED IN FINISHED AREAS.

E. HOUSEKEEPING PADS: THE GENERAL AND MECHANICAL CONTRACTORS SHALL PROVIDE A 4" HIGH CONCRETE HOUSEKEEPING PAD UNDER ALL MECHANICAL EQUIPMENT, UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DOCUMENTS. THE HOUSEKEEPING PAD SHALL EXTEND 8 BEYOND THE MECHANICAL EQUIPMENT ON ALL SIDES.

F. ELECTRIC DUCT HEATERS: ELECTRIC DUCT HEATERS SHALL BE UNDERWRITERS' LABORATORIES LISTED, BEAR THE SEAL OR MARK OF AN APPROVED TESTING AGENCY, AND BE EQUIPPED WITH AN APPROVED, " AUTOMATICALLY RESETTING OUTLET AIR TEMPERATURE LIMIT CONTROL THAT WILL LIMIT THE OUTLET AIR TEMPERATURE TO NOT MORE THAN 200ºF. THE MECHANICAL CONTRACTOR AND MANUFACTURER SHALL EQUIP THE ELECTRIC ELEMENTS OF THE HEATER WITH FUSIBLE LINKS OR A MANUAL RESET TEMPERATURE CONTROL THAT WILL PREVENT THE OUTLET AIR TEMPERATURE FROM EXCEEDING 250ºF. EACH ELECTRIC DUCT HEATER SHALL BE INTERLOCKED WITH THE ASSOCIATED AIR HANDLER TO ENSURE ELECTRIC DUCT HEATER SHUTDOWN IN THE EVENT OF AN AIR HANDLER FAN FAILURE.

2.02 ACCESS PANELS, FIRE DAMPERS, AND FIRE/SMOKE DAMPERS

A. THE GENERAL AND MECHANICAL CONTRACTORS SHALL PROVIDE ACCESS PANELS TO ALLOW ACCESS TO VOLUME DAMPERS ABOVE PLASTER OR GYPSUM CEILINGS, TURNING VANES, FIRE DAMPERS, FIRE/SMOKE DAMPERS, DUCT-MOUNTED SMOKE DETECTORS, AND WHERE REQUIRED FOR THE MAINTENANCE OF ALL MECHANICAL EQUIPMENT. ACCESS PANELS SHALL HAVE A FIRE RATING EQUAL TO THE PENETRATED ASSEMBLY, WITH A MINIMUM FIRE RATING OF ONE (1) HOUR.

B. THE MECHANICAL CONTRACTOR SHALL ATTACH A BRIGHTLY-COLORED STRIP OF PLASTIC TAPE TO EVERY DUCT-MOUNTED ACCESS PANEL. THE STRIP SHALL BE OF SUFFICIENT LENGTH TO HANG A MINIMUM OF 12" BELOW THE BOTTOM OF THE ASSOCIATED DUCT.

OR in return plenums

THE MECHANICAL CONTRACTOR SHALL ATTACH A BRIGHTLY-COLORED STRIP OF METAL TO EVERY DUCT-MOUNTED ACCESS PANEL. THE STRIP SHALL BE OF SUFFICIENT LENGTH TO HANG A MINIMUM OF 12" BELOW THE BOTTOM OF THE ASSOCIATED DUCT.

A. THE MECHANICAL CONTRACTOR SHALL PROVIDE A FIRE DAMPER AT EVERY DUCT PENETRATION OF A FIRE-RATED ASSEMBLY AND A FIRE/SMOKE DAMPER WITH A MINIMUM FIRE/SMOKE RATING OF TWO (2) HOURS AT EVERY DUCT PENETRATION OF A SMOKE ASSEMBLY OR CHASE. EACH FIRE/SMOKE DAMPER SHALL CLOSE AND THE ASSOCIATED AIR HANDLER SHALL SHUT DOWN IF EITHER OF THE AIR HANDLER'S OR THE SPACE'S SMOKE DETECTORS ARE ACTIVATED.

B. THE MECHANICAL CONTRACTOR SHALL PROVIDE ADDITIONAL DUCTWORK AND PIPING SUPPORTS WITHIN EIGHTEEN (18) INCHES OF BOTH SIDES OF ALL FIRE-RATED ASSEMBLIES. DUCTWORK AND PIPING SHALL NOT BE SUPPORTED BY FIRE-RATED WALLS, BUT INSTEAD SHALL BE SUPPORTED BY THE BUILDING STRUCTURE.

2.04 DX SYSTEMS

A. ALL REFRIGERANT LINES AND ACCESSORIES SHALL BE SIZED AND INSTALLED PER THE EQUIPMENT MANUFACTURER'S' RECOMMENDATIONS. THE MECHANICAL CONTRACTOR AND MANUFACTURER(S) SHALL STUDY THE COMPLETE SET OF CONSTRUCTION DOCUMENTS AND EXISTING AND PROPOSED CONDITIONS TO ENSURE THAT THE MECHANICAL EQUIPMENT HAS THE CAPACITY TO PROPERLY RETURN OIL TO THE COMPRESSOR(S). THE MECHANICAL CONTRACTOR SHALL ENSURE THAT THE MANUFACTURER(S) IS/ARE AWARE OF THE HORIZONTAL DISTANCE AND VERTICAL RISE BETWEEN EACH AIR HANDLER AND ITS ASSOCIATED CONDENSING UNIT. THE MECHANICAL CONTRACTOR SHALL PROVIDE A REFRIGERANT RISER DIAGRAM SHOWING ALL REFRIGERANT LINE SIZES AND ACCESSORIES WITH THE EQUIPMENT SUBMITTALS. REFRIGERANT LINES SHALL BE FILLED WITH DRY NITROGEN DURING SOLDERING. THE MECHANICAL CONTRACTOR SHALL TEST, CLEAN, AND DEHYDRATE ALL REFRIGERANT LINES AND PROVIDE THE CRITICAL CHARGE(S) OF REFRIGERANT PER THE MECHANICAL EQUIPMENT MANUFACTURER'S' RECOMMENDATIONS. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY VALVES, TRAPS, SIGHT GLASSES, AND OTHER ACCESSORIES AS RECOMMENDED BY THE MECHANICAL EQUIPMENT MANUFACTURER(S). SERVICE FITTINGS SHALL BE ACCESSIBLE. THE MECHANICAL CONTRACTOR SHALL PROVIDE "PATE" PIPE CURB ASSEMBLIES FOR ALL REFRIGERANT LINES PENETRATING ANY ROOF.

B. EACH DX SPLIT SYSTEM'S AIR HANDLER AND CONDENSING UNIT SHALL BE BY ONE MANUFACTURER AND SHALL HAVE OR EXCEED THE CAPACITIES LISTED IN THE EQUIPMENT SCHEDULE(S) ON THE CONSTRUCTION DOCUMENTS. EACH ELECTRIC HEATER SHALL HAVE OR EXCEED THE CAPACITIES AND ELECTRICAL REQUIREMENTS LISTED IN THE EQUIPMENT SCHEDULE(S) ON THE CONSTRUCTION DOCUMENTS. THE MANUFACTURER(S) AND THE MECHANICAL CONTRACTOR SHALL PROVIDE PROTECTION FOR ALL DX MECHANICAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO, AN ANTI-SHORT-CYCLE TIMER FOR EACH COMPRESSOR, HEAD PRESSURE CONTROL, HIGH PRESSURE CONTROL (MANUAL RESET), AND LOW PRESSURE CONTROL (AUTO RESET).

C. R410A: EVACUATION AND CHARGING OF REFRIGERANT SYSTEM: AFTER THE COMPLETE REFRIGERANT SYSTEM IS INSTALLED, IT SHALL BE LEAK TESTED WITH OIL-PUMPED, DRY NITROGEN AT A PRESSURE OF 225 PSIG AND ALLOW IT TO REMAIN UNDER PRESSURE FOR TWO (2) HOURS. IF THERE IS NO APPRECIABLE PRESSURE CHANGE, THE SYSTEM MAY BE CONSIDERED LEAK FREE. THE SYSTEM SHALL THEN BE EVACUATED TO 600 MICRONS AS INDICATED BY A RELIABLE VACUUM GAUGE (A STANDARD TESTING AND CHARGING GAUGE WILL NOT BE ACCEPTABLE) FOR 60 MINUTES, THEN BREAK THE VACUUM. NOW RE-EVACUATE THE SYSTEM TO 600 MICRONS AND LET SYSTEM STAND FOR 12 HOURS. IF THE VACUUM READING CHANGES BY LESS THAN 200 MICRONS THEN THE SYSTEM IS READY FOR CHARGING. CHARGE AS PER MANUFACTURERS RECOMMENDATIONS.

2.05 CONDENSATE DRAIN LINES

A. REFER TO BASIC MATERIAL REQUIREMENTS ON THIS SHEET FOR C.D. MATERIAL SELECTIONS.

B. THE MECHANICAL CONTRACTOR SHALL PROVIDE A P-TRAP AT EACH AIR HANDLER'S CONDENSATE DRAIN LINE CONNECTION. EACH CONDENSATE DRAIN LINE SHALL BE SLOPED DOWN A MINIMUM OF ONE-EIGHTH (1/8) INCH PER LINEAR FOOT TOWARD THE ASSOCIATED POINT OF DISCHARGE.

C. THE DIAMETER OF THE CONDENSATE DRAIN LINE SHALL BE EQUAL TO OR GREATER THAN THE CONDENSATE DRAIN LINE CONNECTION. TO AVOID EXCESSIVE DIPS IN AND TO PREVENT ANY SHIFTING OF THE CONDENSATE DRAIN LINES, THE MECHANICAL CONTRACTOR SHALL PROVIDE SUPPORTS AT THE FOLLOWING INTERVALS: THREE (3) FEET FOR CONDENSATE DRAIN LINES CONSTRUCTED OF PVC, SIX (6) FEET FOR CONDENSATE DRAIN LINES CONSTRUCTED OF COPPER, AND TEN (10) FEET FOR CONDENSATE LINES CONSTRUCTED OF STEEL. CONDENSATE DRAIN LINE SUPPORTS SHALL BE FIXED SOLIDLY IN PLACE.

D. CONDENSATE DRAIN LINES SHALL NOT BE ROUTED TO THE SANITARY SEWER SYSTEM OR TO SCUPPERS.

E. THE MECHANICAL CONTRACTOR SHALL INSULATE EACH CONDENSATE DRAIN LINE WITH ONE-HALF (1/2) INCH ARMAFLEX WHEREVER THAT CONDENSATE DRAIN LINE IS ROUTED WITHIN THE STRUCTURE OR THE CONDENSATE MAY OTHERWISE CAUSE DAMAGE.

F. THE MECHANICAL CONTRACTOR SHALL CLEARLY LABEL ALL CONDENSATE DRAIN LINES TO INDICATE CONTENT AND DIRECTION OF FLOW.

2.04 DX SYSTEMS

A. ALL REFRIGERANT LINES AND ACCESSORIES SHALL BE SIZED AND INSTALLED PER THE EQUIPMENT MANUFACTURER'S' RECOMMENDATIONS. THE MECHANICAL CONTRACTOR AND MANUFACTURER(S) SHALL STUDY THE COMPLETE SET OF CONSTRUCTION DOCUMENTS AND EXISTING AND PROPOSED CONDITIONS TO ENSURE THAT THE MECHANICAL EQUIPMENT HAS THE CAPACITY TO PROPERLY RETURN OIL TO THE COMPRESSOR(S). THE MECHANICAL CONTRACTOR SHALL ENSURE THAT THE MANUFACTURER(S) IS/ARE AWARE OF THE HORIZONTAL DISTANCE AND VERTICAL RISE BETWEEN EACH AIR HANDLER AND ITS ASSOCIATED CONDENSING UNIT. THE MECHANICAL CONTRACTOR SHALL PROVIDE A REFRIGERANT RISER DIAGRAM SHOWING ALL REFRIGERANT LINE SIZES AND ACCESSORIES WITH THE EQUIPMENT SUBMITTALS. REFRIGERANT LINES SHALL BE FILLED WITH DRY NITROGEN DURING SOLDERING. THE MECHANICAL CONTRACTOR SHALL TEST, CLEAN, AND DEHYDRATE ALL REFRIGERANT LINES AND PROVIDE THE CRITICAL CHARGE(S) OF REFRIGERANT PER THE MECHANICAL EQUIPMENT MANUFACTURER'S' RECOMMENDATIONS. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY VALVES, TRAPS, SIGHT GLASSES, AND OTHER ACCESSORIES AS RECOMMENDED BY THE MECHANICAL EQUIPMENT MANUFACTURER(S). SERVICE FITTINGS SHALL BE ACCESSIBLE. THE MECHANICAL CONTRACTOR SHALL PROVIDE "PATE" PIPE CURB ASSEMBLIES FOR ALL REFRIGERANT LINES PENETRATING ANY ROOF.

B. EACH DX SPLIT SYSTEM'S AIR HANDLER AND CONDENSING UNIT SHALL BE BY ONE MANUFACTURER AND SHALL HAVE OR EXCEED THE CAPACITIES LISTED IN THE EQUIPMENT SCHEDULE(S) ON THE CONSTRUCTION DOCUMENTS. EACH ELECTRIC HEATER SHALL HAVE OR EXCEED THE CAPACITIES AND ELECTRICAL REQUIREMENTS LISTED IN THE EQUIPMENT SCHEDULE(S) ON THE CONSTRUCTION DOCUMENTS. THE MANUFACTURER(S) AND THE MECHANICAL CONTRACTOR SHALL PROVIDE PROTECTION FOR ALL DX MECHANICAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO, AN ANTI-SHORT-CYCLE TIMER FOR EACH COMPRESSOR, HEAD PRESSURE CONTROL, HIGH PRESSURE CONTROL (MANUAL RESET), AND LOW PRESSURE CONTROL (AUTO RESET).

C. R410A: EVACUATION AND CHARGING OF REFRIGERANT SYSTEM: AFTER THE COMPLETE REFRIGERANT SYSTEM IS INSTALLED, IT SHALL BE LEAK TESTED WITH OIL-PUMPED, DRY NITROGEN AT A PRESSURE OF 225 PSIG AND ALLOW IT TO REMAIN UNDER PRESSURE FOR TWO (2) HOURS. IF THERE IS NO APPRECIABLE PRESSURE CHANGE, THE SYSTEM MAY BE CONSIDERED LEAK FREE. THE SYSTEM SHALL THEN BE EVACUATED TO 600 MICRONS AS INDICATED BY A RELIABLE VACUUM GAUGE (A STANDARD TESTING AND CHARGING GAUGE WILL NOT BE ACCEPTABLE) FOR 60 MINUTES, THEN BREAK THE VACUUM. NOW RE-EVACUATE THE SYSTEM TO 600 MICRONS AND LET SYSTEM STAND FOR 12 HOURS. IF THE VACUUM READING CHANGES BY LESS THAN 200 MICRONS THEN THE SYSTEM IS READY FOR CHARGING. CHARGE AS PER MANUFACTURERS RECOMMENDATIONS.

2.08 DUCTWORK CONSTRUCTION

A. THE SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION'S "FIBROUS GLASS DUCT CONSTRUCTION STANDARDS" AND "HVAC DUCT CONSTRUCTION STANDARDS" SHALL BE CONSIDERED PART OF THE SPECIFICATIONS FOR THIS PROJECT. ANY WORK THAT DOES NOT COMPLY WITH THESE STANDARDS MAY BE REJECTED AT ANY TIME DURING THE PROJECT.

B. REFER TO BASIC MATERIAL REQUIREMENTS ON THIS SHEET FOR DUCTWORK AND DUCT INSULATION MATERIAL SELECTIONS.

C. ALL DUCT DIMENSIONS SHOWN ON THE CONSTRUCTION DOCUMENTS ARE INSIDE CLEAR DIMENSIONS. THE MECHANICAL CONTRACTOR SHALL PROVIDE FLEXIBLE CONNECTIONS BETWEEN EACH ITEM OF MECHANICAL EQUIPMENT AND ITS ASSOCIATED DUCT(S). ALL ITEMS OF THE HEATING, VENTILATION, AND AIR CONDITIONING SYSTEM INCLUDING, BUT NOT LIMITED TO, AIR HANDLERS, FANS, DUCTWORK, DIFFUSERS, AND GRILLES SHALL NOT BE SUPPORTED BY THE CEILING OR CEILING SUSPENSION SYSTEM, BUT INSTEAD SHALL BE SUPPORTED BY THE BUILDING STRUCTURE.

D. ALL ELBOWS SHALL HAVE A ONE AND ONE-HALF (1.5) CENTERLINE RADIUS-TO-WIDTH OR RADIUS-TO-DEPTH RATIO OR SHALL BE CONSTRUCTED WITH SINGLE BLADE TURNING VANES. ANGULAR TAPERS SHALL BE LIMITED TO THIRTY (30) DEGREES FOR CONTRACTING TAPERS AND TWENTY (20) DEGREES FOR EXPANDING TAPERS.

E. THE MAXIMUM LENGTH OF NEW FLEXIBLE DUCT SHALL BE 10'-0". FLEXIBLE DUCT SHALL BE INSTALLED AND SUPPORTED SO AS TO PREVENT THE USE OF EXCESS DUCT MATERIAL, PREVENT DISLOCATION OR DAMAGE, AND PREVENT CONSTRICTION OF THE DUCT BELOW THE RATED DUCT DIAMETER. FLEXIBLE DUCT BENDS SHALL MAINTAIN A CENTERLINE RADIUS OF NOT LESS THAN ONE AND ONE-HALF (1.5) DUCT DIAMETERS. SAGS SHALL NOT EXCEED ONE-HALF (0.5) INCH PER LINEAR FOOT OF FLEXIBLE DUCT. HANGERS, SADDLES, AND OTHER SUPPORTS SHALL HAVE A MINIMUM WIDTH OF ONE AND ONE-HALF (1.5) INCHES. THE MECHANICAL CONTRACTOR SHALL PROVIDE SUPPORT FOR NEW AND MODIFIED EXISTING FLEXIBLE DUCTWORK IN THE SCOPE OF WORK WITH A MAXIMUM SPACING OF 5'-0", UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DOCUMENTS OR AUTHORIZED BY MECHANICAL ENGINEER OF RECORD.

F. SURFACES UPON WHICH CLOSURE OR SEALING PRODUCTS ARE TO BE APPLIED SHALL BE CLEAN AND DRY IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. ALL DUCTWORK SHALL BE SEALED WITH A NON-HARDENING, NON-MIGRATING MASTIC OR LIQUID ELASTIC SEALANT AS REQUIRED TO MEET THE FLORIDA ENERGY CONSERVATION CODE. THE MECHANICAL CONTRACTOR SHALL PROVIDE HOT-DIPPED GALVANIZED STEEL FASTENERS, ANCHORS, RODS, STRAPS, TRIM, AND ANGLES FOR INTERIOR DUCTWORK SUPPORTS. INTERIOR DUCTWORK SUPPORT SPACING SHALL NOT EXCEED 5'-0".

G. ALL DUCTWORK INSULATION, FITTINGS, COVERS, AND FINISHES SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25, A MAXIMUM SMOKE DEVELOPMENT RATING OF 50, AND SHALL BE IN COMPLIANCE WITH NFPA 90A. PROVIDE MINIMUM OF 1/2" FIBERGLASS WITH FOIL/SCRIM VAPOR BARRIER ON THE BACK PAN OF ALL NEW AIR DEVICES.

H. ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM ANY EXHAUST OUTLET OR VENT PIPE (UNLESS THE VENT PIPE IS AT LEAST TWO (2) FEET ABOVE THE OUTSIDE AIR INTAKE). THE MECHANICAL CONTRACTOR SHALL PROVIDE SCREENS ON ALL OUTSIDE AIR INTAKES AND EXHAUST OUTLETS AT NO LESS THAN 1/4" BY 1/4 AND NO GREATER THAN 1/2" BY 1/2" . THE MECHANICAL CONTRACTOR SHALL PROVIDE MOTORIZED DAMPERS IN ALL OUTSIDE AIR DUCTS. EACH MOTORIZED DAMPER SHALL BE CONTROLLED TO OPEN IN OCCUPIED MODE.

I. THE MECHANICAL CONTRACTOR SHALL PROVIDE AN OPPOSED-BLADE VOLUME DAMPER FOR EVERY RECTANGULAR BRANCH AND OUTLET AND AT EVERY RECTANGULAR TAKE-OFF FOR A DIFFUSER OR GRILLE. (ROUND OR OVAL BRANCHES, OUTLETS, AND TAKE-OFFS FOR DIFFUSERS AND GRILLES SHALL BE PROVIDED WITH STANDARD VOLUME DAMPERS.) NOT ALL DAMPERS ARE SHOWN ON THE CONSTRUCTION DOCUMENTS. HOWEVER, DAMPERS ARE REQUIRED FOR EVERY BRANCH, OUTLET, AND TAKE-OFF. SOME DAMPERS MAY BE REQUIRED AFTER TRANSITIONS.

J. THE MECHANICAL CONTRACTOR SHALL ATTACH A BRIGHTLY-COLORED STRIP OF PLASTIC TAPE TO EVERY VOLUME DAMPER, EXCEPT THOSE AT THE HEAD OF A DIFFUSER OR GRILLE. THE STRIP SHALL BE OF SUFFICIENT LENGTH TO HANG A MINIMUM OF 12" BELOW THE BOTTOM OF THE ASSOCIATED DUCT.

OR in return plenums

THE MECHANICAL CONTRACTOR SHALL ATTACH A BRIGHTLY-COLORED STRIP OF METAL TO EVERY VOLUME DAMPER, EXCEPT THOSE AT THE HEAD OF A DIFFUSER OR GRILLE. THE STRIP SHALL BE OF SUFFICIENT LENGTH TO HANG A MINIMUM OF 12" BELOW THE BOTTOM OF THE ASSOCIATED DUCT.

K. THE MECHANICAL CONTRACTOR SHALL CLEARLY AND PERMANENTLY MARK EACH VOLUME DAMPER'S OPEN AND CLOSED POSITIONS. THE MECHANICAL CONTRACTOR SHALL PROVIDE A VOLUME DAMPER WITH A 2" STANDOFF WITH A LOCKING QUADRANT THAT IS 24 GAUGES OR 2 GAUGES HEAVIER.

L. PROVIDE AND INSTALL "RUSKIN PRD-18" POSITIVE PRESSURE RELIEF DOORS IN SUPPLY DUCTWORK FOR ALL AIR HANDLER SYSTEMS WITH VAV BOXES, SMOKE DAMPERS OR FIRE DAMPERS. PROVIDE AND INSTALL "RUSKIN NRD-18 NEGATIVE PRESSURE RELIEF DOOR IN RETURN DUCTWORK FOR ALL AIR HANDLER SYSTEMS THAT HAVE MOTORIZED RETURN AIR DAMPERS, SMOKE DAMPERS OR FIRE DAMPERS.

M. ALL DUCT SHALL MEET THE FOLLOWING CONSTRUCTION REQUIREMENTS:

- SUPPLY DUCTWORK (UPSTREAM OF ANY VAV): 2.0 IWG POSITIVE STATIC PRESSURE AND VELOCITIES LESS THAN 2500 FPM.
- SUPPLY DUCTWORK (DOWNSTREAM OF ANY VAV): 1.0 IWG POSITIVE STATIC PRESSURE AND VELOCITIES LESS THAN 1600 FPM.
- ALL OTHER RETURN DUCTWORK: 1.0 IWG NEGATIVE STATIC PRESSURE AND VELOCITIES LESS THAN 1600 FPM.
- ALL EXHAUST AND OUTSIDE AIR DUCTWORK: 1.0 IWG POSITIVE OR NEGATIVE STATIC PRESSURE AND VELOCITIES LESS THAN 1600 FPM.
- ALL TRANSFER DUCTWORK: 0.5 IWG POSITIVE OR NEGATIVE STATIC PRESSURE AND VELOCITIES LESS THAN 500 FPM.
- ANY OTHER DUCTWORK: REFER TO SMACNA "HVAC DUCT CONSTRUCTION STANDARDS".

ALL RECTANGULAR METALLIC DUCTWORK SHALL BE SHOP FABRICATED OF GALVANIZED STEEL SHEETS. FOLLOWING ARE THE SMACNA RECOMMENDATIONS FOR GAUGES AND SEAMS. CONFORM TO THE RECOMMENDATIONS OF SMACNA AS TO SEAMS, JOINTS, CROSS BREAKS AND TRANSITIONS, ETC.

RECTANGULAR STEEL DUCT GAGE

DUCT DIAMETER IN INCHES	WITH FLAT "S" SLIP ON 5' SPACING (GA)	WITH STANDING "S" SLIP ON 5' SPACING (GA)
0 - 12	26	26 B
13 - 14	24	26 B
15 - 18	22	26 B
19 - 20	20	26 C
21 - 26	18	26 C
27 - 28	16	26 C
29 - 30	16	26 D
31 - 36	-	24 D
37 - 42	-	24 E
43 - 60	-	22 G

STANDING "S" SLIP SIZE

B 1" x 26 GA
C 1"x 22 GA
D 1-1/8" x 22 GA
E 1-1/8" x 18 GA
G 1-5/8" x 18 GA

REFER TO SMACNA TABLES FOR REINFORCEMENT FOR DUCT LENGTHS OTHER THAN FIVE (5) FEET.

ALL ROUND RIGID METAL DUCTWORK CAN BE PREFABRICATED OR SHOP FABRICATED. FOLLOWING ARE THE SMACNA RECOMMENDATIONS FOR GAUGES AND SEAMS. ELBOWS SHALL HAVE CENTERLINE RADIUS OF 1-1/2 TIMES DUCT DIAMETER. THE CONTRACTOR MAY PROVIDE EQUIVALENT ROUND OR RECTANGULAR DUCT AS CONDITIONS AND SPACE PERMIT.

ROUND STEEL DUCT GAGE

DUCT DIAMETER IN INCHES	SPIRAL SEAM IN INCHES	LONGITUDINAL SEAM IN INCHES
3 - 8	28	28
9 - 14	28	26
15 - 26	26	24
27 - 36	24	22
37 - 50	22	20
51 - 60	20	18
61 - 84	18	16

ROUND ALUMINUM DUCT GAGE

DUCT DIAMETER IN INCHES	SPIRAL SEAM IN INCHES	LONGITUDINAL SEAM IN INCHES
3 - 14	.025	.032
15 - 26	.032	.040
27 - 36	.040	.050
37 - 50	.050	.063

2.09 DUCT LEAKAGE PERFORMANCE

A. FOR AIR CONDITIONING SYSTEMS OF FIFTEEN (15) TONS OR GREATER CAPACITY, AN INDEPENDENT TEST AND BALANCE CONTRACTOR SHALL PERFORM A DUCT LEAKAGE TEST IN COMPLIANCE WITH SMACNA'S "HVAC AIR DUCT LEAKAGE TEST MANUAL" TO VERIFY THE FUNCTION OF THE DESIGN AND THE WORKMANSHIP OF THE MECHANICAL CONTRACTOR. A DUCT LEAKAGE TEST USED TO CONFIRM DUCT LEAKAGE CLASS SHALL BE CONDUCTED AT THE PRESSURE FOR WHICH THE DUCT WAS DESIGNED AND CONSTRUCTED.

B. DUCT CONSTRUCTION AND SEALING SYSTEMS SHALL MEET THE REQUIREMENTS OF THE FLORIDA ENERGY CONSERVATION CODE AND SMACNA'S "FIBROUS GLASS DUCT CONSTRUCTION STANDARDS" AND "HVAC DUCT CONSTRUCTION STANDARDS". IF THERE IS A CONFLICT AMONG THE STANDARDS, THEN THE MORE STRINGENT STANDARD SHALL BE ENFORCED.

C. THE MECHANICAL CONTRACTOR SHALL SEAL ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS TO A MAXIMUM ALLOWABLE DUCT LEAKAGE CLASS OF THREE (3) CFM PER 100 SQUARE FEET OF DUCT AREA (1.5%) FOR ROUND DUCT AND SIX (6) CFM PER 100 SQUARE FEET OF DUCT AREA (3%) FOR ALL OTHER DUCT TYPES, UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DOCUMENTS OR AUTHORIZED BY MECHANICAL ENGINEER OF RECORD. TRANSVERSE JOINTS ARE CONNECTIONS OF TWO DUCT OR FITTING ELEMENTS ORIENTED PERPENDICULAR TO THE DIRECTION OF THE AIRFLOW. LONGITUDINAL SEAMS ARE JOINTS ORIENTED IN THE DIRECTION OF THE AIRFLOW. DUCT WALL PENETRATIONS ARE OPENINGS MADE BY SCREWS, NON-SELF-SEALING FASTENERS, PIPES, TUBING, RODS, AND WIRE. ROUND AND FLAT-OVAL SPIRAL LOCK SEAMS NEED NOT BE SEALED PRIOR TO ASSEMBLY BUT SHALL BE COATED AFTER ASSEMBLY TO REDUCE LEAKAGE. ALL OTHER CONNECTIONS ARE CONSIDERED TRANSVERSE JOINTS INCLUDING, BUT NOT LIMITED TO, SPIN-INS, TAPS OR OTHER BRANCH CONNECTIONS, ACCESS DOOR FRAMES, AND DUCT CONNECTIONS TO EQUIPMENT. MORE INFORMATION IS AVAILABLE IN CHAPTER 35 OF ASHRAE'S "FUNDAMENTALS HANDBOOK".

D. ALL DUCTWORK SHALL BE INSPECTED BY MECHANICAL ENGINEER OF RECORD PRIOR TO BEING COVERED OR INSULATED. THE OWNER AND MECHANICAL ENGINEER OF RECORD SHALL BE PRESENT DURING ALL DUCT LEAKAGE TESTING AND THE DUCTWORK SHALL BE TESTED AS INSTRUCTED BY MECHANICAL ENGINEER OF RECORD AND RETESTED IF REQUIRED BY MECHANICAL ENGINEER OF RECORD. IF ANY DISCREPANCIES ARE IDENTIFIED, THE DUCTWORK SHALL BE UNCOVERED AND REPAIRS SHALL BE MADE AT THE MECHANICAL CONTRACTOR'S EXPENSE. THE MECHANICAL CONTRACTOR SHALL GIVE MECHANICAL ENGINEER OF RECORD TWO (2) WEEKS NOTICE BEFORE TESTING THE DUCTWORK.

E. EXISTING DUCTWORK SHALL BE RESEALED AND SHALL HAVE THE INSULATION REPLACED TO REDUCE LEAKAGE.

2.10 AIR DEVICES

A. THE MECHANICAL CONTRACTOR SHALL VERIFY THE LOCATIONS OF THE DIFFUSERS AND GRILLES AND SUBMIT A REQUEST-FOR-INFORMATION IF THERE IS A CONFLICT BETWEEN THE ARCHITECTURAL AND MECHANICAL PORTIONS OF THE CONSTRUCTION DOCUMENTS. THE MECHANICAL CONTRACTOR SHALL ALSO VERIFY THE TYPES OF CEILINGS IN THE SCOPE OF WORK PRIOR TO ORDERING DIFFUSERS AND GRILLES. FOR DIFFUSERS AND GRILLES LOCATED IN PLASTER OR GYPSUM CEILINGS, THE MECHANICAL CONTRACTOR SHALL PROVIDE METALAIRE MODEL TBPF / TITUS MODEL TRM PLASTER FRAMES. THE FRAMES MAY BE ALUMINUM IN NON-FIRE-RATED CEILINGS BUT MUST BE STEEL IN FIRE-RATED CEILINGS. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE FINISH OF ALL DIFFUSERS AND GRILLES, EXPOSED DUCTWORK, GRAVITY VENTILATORS, LOUVERS, AND WALL CAPS WITH THE {ARCHITECT/OWNER}. ALL VISIBLE EXTERIOR COMPONENTS (SUCH AS EXPOSED DUCTWORK AND LOUVERS) SHALL BE PROVIDED WITH A PAINT-GRIP FINISH.

2.11 CONTROLS

A. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROLS AND SUB-CONTRACT TO THE ELECTRICAL CONTRACTOR ALL CONTROLS POWER AND TRANSFORMERS NOT IDENTIFIED IN THE ELECTRICAL PORTION OF THE CONSTRUCTION DOCUMENTS.

B. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING WHAT IS REQUIRED TO INCORPORATE NEW MECHANICAL EQUIPMENT AND CONTROLS INTO THE EXISTING CONTROL SYSTEM(S) AND INCLUDING ALL COSTS ASSOCIATED WITH INCORPORATING NEW MECHANICAL EQUIPMENT AND CONTROLS INTO THE EXISTING CONTROL SYSTEM(S) IN HIS/HER BID. THE CONTROLS CONTRACTOR SHALL PROVIDE A COMPLETE DESCRIPTION OF THE ENTIRE CONTROL SYSTEM, INCLUDING SCHEMATIC DRAWINGS.

C. THE MECHANICAL CONTRACTOR SHALL PROVIDE A HONEYWELL MODEL 7350 PROGRAMMABLE THERMOSTAT WITH A REMOTE SENSOR AND A LOCKABLE COVER FOR EACH NEW AND EXISTING AIR CONDITIONING SYSTEM. THE MECHANICAL CONTRACTOR SHALL ALSO PROVIDE ONE (1) PERSONAL DIGITAL ASSISTANT (PDA) AND HONEYWELL'S THERMOSTAT INTERFACE MODULE AND PROGRAMMING SOFTWARE. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE INITIAL OCCUPANCY SCHEDULE(S) AND PROGRAMMING WITH THE OWNER AND PROVIDE TRAINING AS REQUIRED. ALL PROGRAMMING SHALL BE COMPLETED USING HONEYWELL'S THERMOSTAT PROGRAMMING SOFTWARE.

D. EACH SENSOR SHALL BE INSTALLED AT 4'-6" ABOVE THE FINISHED FLOOR UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DOCUMENTS. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EACH SENSOR WITH THE OWNER AND SUBMIT THE PROPOSED LOCATION TO MECHANICAL ENGINEER OF RECORD FOR APPROVAL. THE MECHANICAL CONTRACTOR SHALL PROVIDE COORDINATION OF ALL SENSOR FINISHES WITH ROOM FINISHES AT NO ADDITIONAL COST TO THE OWNER.

E. ALL EXHAUST AND OUTSIDE AIR FANS SHALL BE INTERLOCKED WITH THE AIR HANDLER SERVING THE ASSOCIATED SPACE.

F. ALL 120-VOLT RESTROOM EXHAUST FANS WITH ELECTRICAL REQUIREMENTS OF UP TO 800 WATTS SHALL BE CONTROLLED BY AN OCCUPANCY SENSOR WITH A TIME DELAY. THE INITIAL TIME DELAY SHALL BE SET AT TWENTY (20) MINUTES.

G. THE MECHANICAL CONTRACTOR SHALL PROVIDE A TIME CLOCK FOR ALL OUTDOOR AIR FANS. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE INITIAL OCCUPANCY SCHEDULE(S) AND SETTINGS WITH THE OWNER AND PROVIDE TRAINING AS REQUIRED.

PART 3 - EXECUTION

3.01 INSTALLATION

A. COORDINATE WORK WITH OTHER TRADES AND EXISTING CONDITIONS PRIOR TO BEGINNING WORK. MECHANICAL CONTRACTOR SHALL PROVIDE ROUTING AND OFFSETS NECESSARY TO AVOID CONFLICT WITH STRUCTURE, FINISHES, AND WORK OF OTHER TRADES.

3.02 DISINFECTING OF POTABLE WATER SYSTEM

A. THE SYSTEM SHALL BE FILLED WITH A SOLUTION CONTAINING 50 PARTS PER MILLION OF AVAILABLE CHLORINE AND ALL ALLOWED TO STAND 24 HOURS BEFORE FLUSHING AND RETURNING TO SERVICE. DISINFECTION PROCEDURE AND RESULT SHALL BE SUBJECT TO THE APPROVAL OF THE LOCAL MECHANICAL INSPECTOR.

3.03 TEST

A. ALL MECHANICAL SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE MECHANICAL. ALL TESTS SHALL BE APPROVED BY THE LOCAL MECHANICAL INSPECTOR.

3.04 SYSTEM IDENTIFICATION

A. THE MECHANICAL CONTRACTOR SHALL PROVIDE IDENTIFICATION TAGS FOR ALL NEW EQUIPMENT, PIPING AND VALVES IN THE BUILDING. TAGS SHALL BE METAL WITH ENGRAVED UNIT/TAG NUMBER.

3.05 TESTING, ADJUSTING, BALANCING AND COMMISSIONING

A. THE MECHANICAL CONTRACTOR SHALL ENSURE THAT THE MECHANICAL SYSTEMS ARE TESTED AND BALANCED. THE MECHANICAL CONTRACTOR SHALL PROVIDE THE SERVICES OF AN INDEPENDENT TEST AND BALANCE AGENCY TO TEST, BALANCE THE PERFORMANCE OF ALL HVAC SYSTEMS. THE MECHANICAL CONTRACTOR SHALL ALSO PROVIDE THE SERVICES OF AN INDEPENDENT APPROVED AGENCY TO COMMISSION AND FUNCTIONALLY PERFORMANCE TEST THE SYSTEMS. THE APPROVED AGENCY SHALL PROVIDE EVIDENCE OF MECHANICAL SYSTEMS COMMISSIONING IN ACCORDANCE WITH SECTION 408.2, FBC, EC. THE TEST AND BALANCE CONTRACTOR SHALL BE AN APPROVED MEMBER OF THE AABC OR NEBB AND SHALL SPECIALIZE IN THE TESTING AND BALANCING OF HEATING, VENTILATION, AND AIR CONDITIONING SYSTEMS.

B. THE [MECHANICAL][TEST AND BALANCE] CONTRACTOR SHALL PERFORM ALL TESTING, ADJUSTING, BALANCING, AND DATA RECORDING NECESSARY TO ESTABLISH THE CAPACITY AND QUALITY OF THE SYSTEMS AND CONFIRM THE SATISFACTORY COMPLETION OF ALL ASPECTS OF THE SCOPE OF WORK. THIS WILL INCLUDE ALL SYSTEMS WITHIN THE SCOPE OF WORK. ANYTIME FLOWS OR CALCULATIONS ARE SHOWN ON PLANS, DETAILS OR SCHEDULES, TEST & BALANCE IS REQUIRED.

C. THE MECHANICAL CONTRACTOR SHALL ENSURE THAT THE BUILDING IS UNDER POSITIVE PRESSURE AT THE CONCLUSION OF THE TEST AND BALANCE PROCESS. IF THE BUILDING IS NOT UNDER POSITIVE PRESSURE AT THE CONCLUSION OF THE TEST AND BALANCE PROCESS, THEN THE TEST AND BALANCE AND MECHANICAL CONTRACTORS SHALL IMMEDIATELY AND WITHOUT DELAY NOTIFY THE ARCHITECT AND MECHANICAL ENGINEER OF RECORD.

D. THE MECHANICAL CONTRACTOR SHALL, UPON COMPLETION OF ALL NECESSARY TESTING AND BALANCING AND AT LEAST ONE (1) WEEK PRIOR TO SUBSTANTIAL COMPLETION, SUBMIT THREE (3) BOUND COPIES OF THE TEST AND BALANCE AND COMMISSIONING REPORTS TO THE GENERAL CONTRACTOR AND MECHANICAL ENGINEER OF RECORD.

E. THE MECHANICAL CONTRACTOR SHALL INCLUDE IN HIS/HER BID THE COST OF ANY SHEAVE CHANGES REQUIRED FOR REBALANCING THE SYSTEM.

F. THE TEST AND BALANCE CONTRACTOR SHALL PRE-TEST AND RECORD ALL SUPPLY, RETURN, EXHAUST, AND OUTSIDE AIRFLOWS FOR THE EXISTING EQUIPMENT TO BE RE-USED.

G. THE TEST AND BALANCE CONTRACTOR SHALL MEET WITH THE MECHANICAL ENGINEER TO IDENTIFY ANY SYSTEM AIRFLOW DEFICIENCIES SO THAT THE MECHANICAL ENGINEER MAY PROVIDE DIRECTION AS TO HOW THE EXISTING SYSTEM(S) SHALL BE REBALANCED AFTER THE NEW AIR DISTRIBUTION IS COMPLETED.

3.06 SUBSTANTIAL AND FINAL COMPLETION

A. THE MECHANICAL CONTRACTOR SHALL MAINTAIN A SET OF CONTINUOUSLY UPDATED, REPRODUCIBLE AS-BUILT DRAWINGS DURING CONSTRUCTION AND PROVIDE A COMPLETE SET OF THOSE DRAWINGS IN BOTH ELECTRONIC AND HARDCOPY FORMATS TO THE GENERAL CONTRACTOR AND MECHANICAL ENGINEER OF RECORD UPON FINAL COMPLETION.

B. THE MECHANICAL CONTRACTOR SHALL CLEAN ALL COOLING AND HEATING COILS, CONDENSATE PANS, AND CONDENSATE DRAIN LINES PRIOR TO SUBSTANTIAL COMPLETION. THE MECHANICAL CONTRACTOR SHALL ALSO REPLACE ALL FILTERS AND BELTS PRIOR TO SUBSTANTIAL COMPLETION AND PROVIDE TWO (3) COMPLETE REPLACEMENT SETS OF FILTERS AND (2) SETS OF BELTS FOR ALL MECHANICAL EQUIPMENT TO THE OWNER UPON FINAL COMPLETION.

3.07 WARRANTY

A. THE MECHANICAL CONTRACTOR SHALL WARRANT ITS WORK TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE OF ALL WORK.

B. THE MECHANICAL CONTRACTOR SHALL PROVIDE FIVE (5) BOUND COPIES OF ALL MECHANICAL CONTRACTOR WARRANTIES, MANUFACTURER'S' WARRANTIES, PARTS LISTS, AND INSTALLATION AND MAINTENANCE MANUALS FOR ALL MECHANICAL EQUIPMENT, AS WELL AS INSTRUCTIONS FOR OPERATING AND MAINTAINING ALL MECHANICAL EQUIPMENT TO THE OWNER UPON FINAL COMPLETION.

BASIC DUCTWORK MATERIAL REQUIREMENTS:

SUPPLY/RETURN:
☒ SHEET METAL
☒ DUCTBOARD

EXHAUST/OUTSIDE AIR:
☒ SHEET METAL
☐ DUCTBOARD

NOTES:
☒ UTILIZE MATERIALS ABOVE UNLESS NOTED OTHERWISE ON PLANS
☐ CONTRACTOR TO PROVIDE DEDUCTIVE COST ALTERNATE FOR USE OF DUCTBOARD

BASIC C.D. MATERIAL REQUIREMENTS:

CONDENSATE DRAIN:
☒ SCHEDULE 40, PVC
☐ COPPER, TYPE L, W/ARMAFLEX INSULATION

NOTES:
☒ UTILIZE MATERIALS ABOVE UNLESS NOTED OTHERWISE ON PLANS

BASIC INSULATION MATERIAL REQUIREMENTS:

ON CONCEALED DUCTWORK:
☒ FLEXIBLE FIBERGLASS
☐ FIBROUS DUCTBOARD

ON EXPOSED DUCTWORK:
☐ FLEXIBLE FIBERGLASS
☒ FIBROUS DUCTBOARD

R-VALUE:
☒ IN UNCONDITIONED SPACE, R-8
☒ ALL OTHER DUCTWORK, R-4.2

NOTES:
☒ UTILIZE MATERIALS ABOVE UNLESS NOTED OTHERWISE ON PLANS

MECHANICAL LEGEND

	RIGID DUCT - DOUBLE LINE
—	RIGID DUCT - SINGLE LINE
	FLEXIBLE DUCT - INSULATED, SINGLE LINE
	FLEXIBLE DUCT - INSULATED
☒	SUPPLY AIR DUCT - SECTION
⧄	RETURN AIR DUCT - SECTION
—	DUCT TRANSITION - SINGLE LINE
	DUCT TRANSITION
	ELBOW WITH "AIRFOIL" TURNING VANES
VD	MANUAL VOLUME DAMPER (VD)
⊠	SUPPLY AIR DIFFUSER
⧄	RETURN AIR OR VENTILATION EXH. GRILLE
⧅	EXHAUST AIR GRILLE OR CEILING MOUNTED EXHAUST FAN
T H	THERMOSTAT OR HUMIDISTAT - WALL MOUNTED
SD	DUCT SMOKE DETECTOR
← U —	3/4" UNDERCUT
— G →	16X16 DOOR GRILLE
	SPIN-IN FITTING WITH VOLUME DAMPER
BDD	BACKDRAFT DAMPER
MD	MOTORIZED DAMPER
XX	FD=FIRE DAMPER, SD=SMOKE DAMPER FSD = FIRE/SMOKE DAMPER TO MATCH ASSEMBLY PENETRATION RATING (1-HR, 2-HR, ETC.); PROVIDE ACCESS PANEL FOR ACCESS
	CONNECTION - NEW TO EXISTING WORK.
—	NEW LINE TYPE
- - -	EXISTING LINE TYPE

MECHANICAL SHEET INDEX

M001	MECHANICAL GENERAL
M301	MECHANICAL DEMO FLOOR PLAN
M401	MECHANICAL CEILING PLAN
M701	MECHANICAL SCHEDULES
M901	MECHANICAL DETAILS

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MECHANICAL GENERAL

ISSUE HISTORY

12/24/25	PERMIT SET	○

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY MAKSIM A. SEGAL ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

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PLAN NORTH

MAKSIM A. SEGAL
LICENSE
No. 71454
STATE OF FLORIDA

JOB NO. TBD

PAGE NUMBER M001

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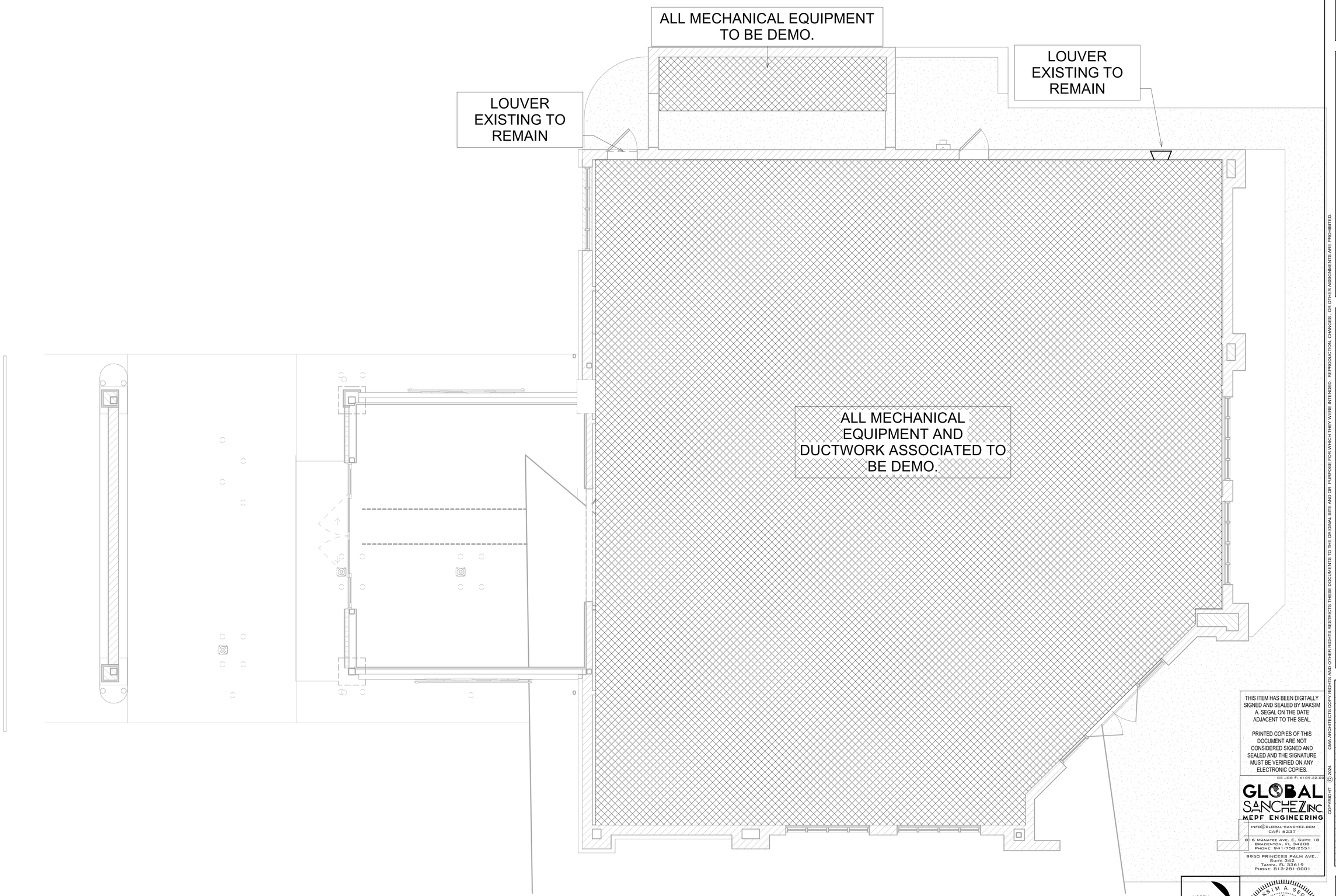

1 MECHANICAL DEMO FLOOR PLAN
M301 1/4" = 1'-0"

NORTH
PLAN NORTH

GMA ARCHITECTS PLANNERS
43 BARKLEY CIRCLE SUITE #202
FORT MYERS, FL 33907
P: 239 275.0225

BUILDING REMODEL FOR:
GOODWILL NAPLES - REGIONS BANK
12621 Tamiami Trl E,
Naples, FL 34113

MECHANICAL DEMO FLOOR PLAN

ISSUE HISTORY

12/24/25	PERMIT SET	

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GS JOB #: 6109.22.00

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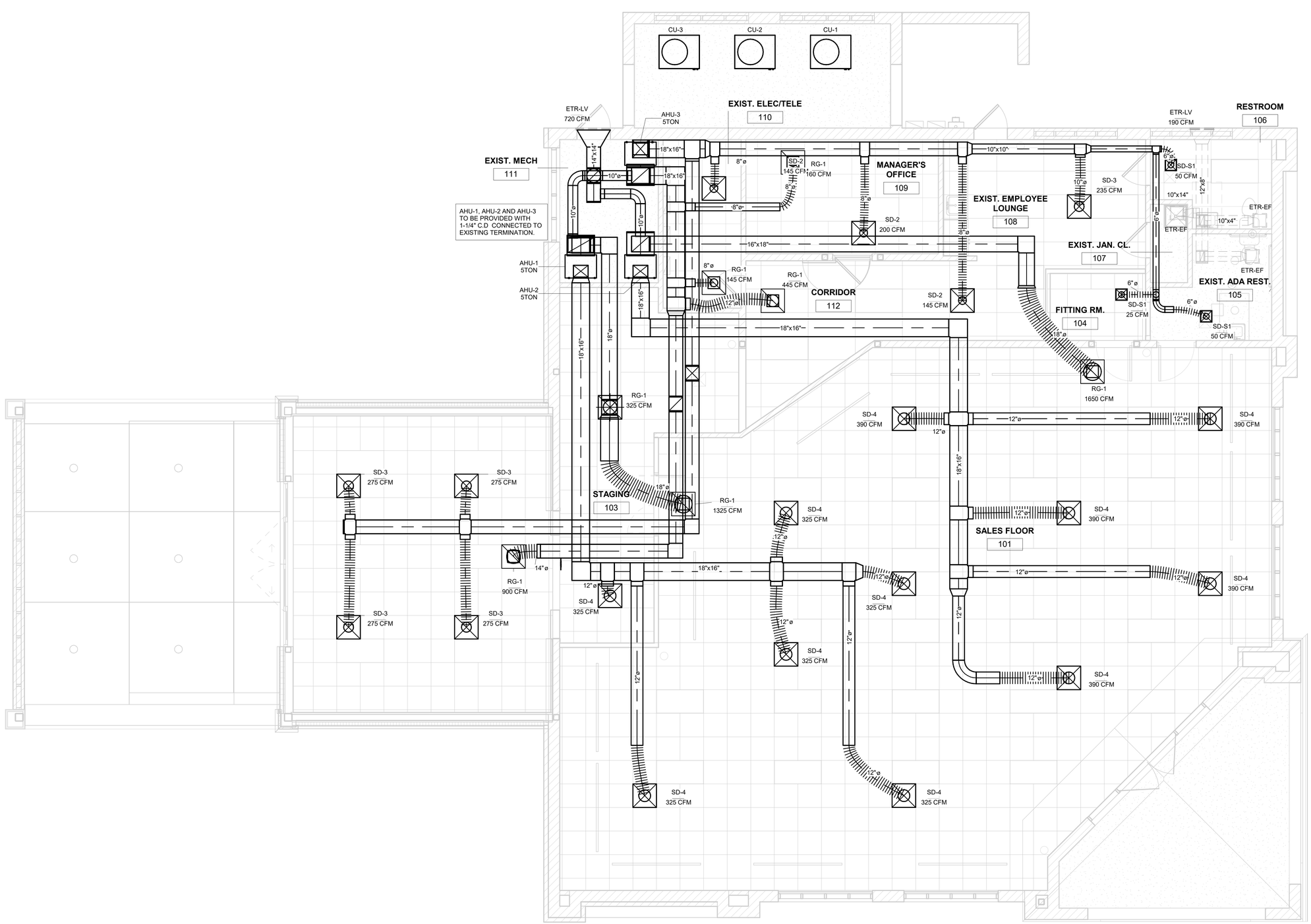

1 MECHANICAL CEILING PLAN
M401 1/4" = 1'-0"

NORTH
PLAN NORTH

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MECHANICAL CEILING PLAN

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AIR SYSTEM SIZING SUMMARY FOR AHU-1 THRU AHU-3

Air System Information

Air System Name AHU-1 THRU AHU-3
Equipment Class SPLT AHU
Air System Type SZCAV
Number of zones 1
Floor Area 3945.0 ft²
Location Tampa, Florida

Sizing Calculation Information

Calculation Months Jan to Dec
Sizing Data Calculated
Zone CFM Sizing Sum of space airflow rates
Space CFM Sizing Individual peak space loads

Central Cooling Coil Sizing Data

Total coil load 14.7 Tons
Total coil load 176.5 MBH
Sensible coil load 123.5 MBH
Coil CFM at Jun 1500 5949 CFM
Max block CFM 5949 CFM
Sum of peak zone CFM 5949 CFM
Sensible heat ratio 0.700
ft²/Ton 268.2
BTU/(hr·ft²) 44.7
Water flow @ 10.0 °F rise N/A
Load occurs at Jun 1500
OA DB / WB 89.0 / 80.0 °F
Entering DB / WB 77.7 / 67.0 °F
Leaving DB / WB 58.4 / 57.5 °F
Coil ADP 56.3 °F
Bypass Factor 0.100
Resulting RH 55 %
Design supply temp. 56.0 °F
Zone T-stat Check 1 of 1 OK
Max zone temperature deviation 0.0 °F

Central Heating Coil Sizing Data

Max coil load 72.7 MBH
Coil CFM at Des Htg 5949 CFM
Max coil CFM 5949 CFM
Water flow @ 20.0 °F drop N/A
Load occurs at Des Htg
BTU/(hr·ft²) 18.4
Ent. DB / Lvg DB 64.9 / 76.3 °F

Supply Fan Sizing Data

Actual max CFM 5949 CFM
Standard CFM 5947 CFM
Actual max CFM/ft² 1.51 CFM/ft²
Fan motor BHP 0.00 BHP
Fan motor kW 0.00 kW
Fan static 0.00 in wg

Outdoor Ventilation Air Data

Design airflow CFM 740 CFM
CFM/ft² 0.19 CFM/ft²
CFM/person 16.09 CFM/person

EXHAUST FAN SCHEDULE

MARK	ETR-EF	EF-1
MANUFACTURER	-	GREENHECK
MODEL	-	SP-A700-VG
CFM	70	600
E.S.P. (IN. W.G.)	0.5	0.5
FAN TYPE	CEILING	CEILING
MOTOR SIZE (WATTS OR BHP)	-	0.22 BHP
ELECTRICAL (V/PH/HZ)	-	115/1/60
SOUND (SONES)	-	6.5
WEIGHT (LBS)	-	39
QUANTITIES	3	1
CONTROLS	INTERLOCK W/LIGHT SWITCH	INTERLOCK W/LIGHT SWITCH
NOTES		①②③④⑤

NOTES

1. PROVIDE FLEXIBLE CONNECTORS AT ALL DUCT CONNECTIONS TO FAN.
2. PROVIDE FAN WITH GRAVITY BACKDRAFT DAMPER.
3. PROVIDE WITH FACTORY MOUNTED DISCONNECT SWITCH OPTION.
4. PROVIDE FAN WITH SPEED CONTROLLER. MOUNT SPEED CONTROLLER COMPLETELY INSIDE OF A 2X4 METALLIC BOX WITH BLANK COVER PLATE. TEST AND BALANCE CONTRACTORS SHALL ADJUST FAN PERFORMANCE THROUGH USE OF SPEED CONTROLLER.
5. PROVIDE FAN WITH ADJUSTABLE TIME DELAY RELAY FOR FAN TO CONTINUE TO OPERATE WHEN SWITCH IS OPENED.

AIR DISTRIBUTION SCHEDULE

MARK	FACE SIZE	NECK SIZE	MATERIAL	ACCESSORIES	FINISH	MANUFACTURER AND MODEL	NOTES
SD-1	24X24	6"Ø	ALUMINUM	-	-	TITUS-TMS-AA	①②
SD-2	24X24	8"Ø	ALUMINUM	-	-	TITUS-TMS-AA	①②
SD-3	24X24	10"Ø	ALUMINUM	-	-	TITUS-TMS-AA	①②
SD-4	24X24	12"Ø	ALUMINUM	-	-	TITUS-TMS-AA	①②
SD-5	24X24	14"Ø	ALUMINUM	-	-	TITUS-TMS-AA	①②
SD-S1	12X12	6"Ø	ALUMINUM	-	-	TITUS-TMS-AA	①②
RG-S1	12X12	10X10	ALUMINUM	-	-	TITUS-50F	①②
EG-1	24X24	22X22	ALUMINUM	-	-	TITUS-50F	②
RG-1	24X24	22X22	ALUMINUM	-	-	TITUS-50F	②
TG-1	24X24	22X22	ALUMINUM	-	-	TITUS-50F	②
SWS-1	16X16	14X14	ALUMINUM	-	-	TITUS-300FL	②
SWR-1	-	SEE PLAN	ALUMINUM	OBD	-	TITUS-350FS	②

NOTES

1. FLEX DUCT SIZE TO MATCH NECK SIZE. MINIMUM LENGTH OF FLEX SHALL BE 6'-0" TO MAXIMUM LENGTH OF 10'-0", BALANCE OF DUCT SHOWN ON PLAN SHALL BE RIGID STEEL DUCT SAME SIZE AS NECK SIZE, EXTERNALLY INSULATED.
2. PROVIDE RUNOUT BRANCH DUCT TO AIR DEVICE SAME SIZE AS AIR DEVICE NECK UNLESS OTHERWISE NOTED ON PLANS. PROVIDE O.B.D. MODEL # AG-15-AA FOR AIR DEVICES IN HARD CEILING.

S/S SCHEDULE

AIR HANDLING UNIT

MARK	-	AHU-1 THRU AHU-3
MANUFACTURER	-	CARRIER
MODEL	-	FE5BNBD60
TOTAL COOLING CAPACITY	BTUH	58,000
SENSIBLE CAPACITY	BTUH	41,500
SUPPLY AIR QUANTITY	CFM	1950
OUTSIDE AIR QUANTITY	CFM	300
MOTOR SIZE	HP	3/4
ELECTRICAL	V/Ø/HZ	208/1/60
S.E.E.R.2	-	19.5
ENTERING AIR TEMP. DB/WB	°F/°F	80.0/67.0
LEAVING AIR TEMP. DB/WB	°F/°F	58.9/57.87
EXT. STATIC PRESSURE	IN. W.G.	0.5
FILTER	-	1" DISP.
WEIGHT	LBS	207
ELECTRIC HEAT	-	7.5 KW + HEATPUMP
MCA/MOCP	AMPS/AMPS	51.6/60 @ 208/1

CONDENSING UNIT

MARK	-	CU-1 THRU CU-3
MANUFACTURER	-	CARRIER
MODEL	-	24VNA160
OUTDOOR TEMPERATURE	°F	95
ELECTRICAL CHARACTERISTICS	V/Ø/HZ	208/230/1/60
MINIMUM CIRCUIT AMPACITY	AMPS	36.9
MAX OVERCURRENT PROTECTION	AMPS	50
NOTES:	-	①②③④⑤

KEY NOTES

1. VARIABLE SPEED AIR HANDLING UNIT, VARIABLE SPEED HEAT PUMP CONDENSING UNIT.
2. UNIT CONTROL SHALL BE BASED ON THE SPACE TEMPERATURE AND UNIT SHALL BE CAPABLE OF HUMIDITY CONTROL.
3. SIZE AND NUMBER REFRIGERANT LINES AS PER MANUFACTURE'S RECOMMENDATIONS.
4. PROVIDE WITH AUXILIARY DRAIN PAN WHICH EXTENDS 6" BEYOND PERIMETER OF UNIT ALL AROUND, INCLUDE FLOAT SWITCH TO SHUT DOWN UPON RISE OF WATER LEVEL.
5. PROVIDE CONDENSER COIL COATING TO PROTECT AGAINST CORROSION.

VENTILATION SIZING SUMMARY FOR AHU-1 THRU AHU-3

1. Summary

Ventilation Sizing Method FBC, M 2023 8TH EDITION
Design Condition Cooling operation
Occupant Diversity (D) 1.000
Uncorrected Outdoor Air Intake (Vou) 719 CFM
System Ventilation Efficiency (Ev) 0.972
Outdoor Air Intake (Vot) 740 CFM

2. Space Ventilation Analysis

Zone Name / Space Name	Mult.	Supply Air (CFM) (Vpz)	Space Floor Area (ft²) (Az)	Area Outdoor Air Rate (CFM/ft²) (Ra)	Time Averaged Occupancy (Occupants) (Pz)	People Outdoor Air Rate (CFM/person) (Rp)	Air Distribution Effectiveness (Ez)	Space Outdoor Air (CFM) (Voz)	Breathing Zone Outdoor Air (CFM) (Vbz)	Space Ventilation Efficiency (Evz)
Zone 1										
101 SALES FLOOR	1	3509	2241.0	0.12	34.0	7.50	1.00	524	524	0.972
102 DONATIONS/RECEIVING	1	1167	527.0	0.12	8.0	7.50	1.00	123	123	1.015
103 STAGING	1	244	322.0	0.06	0.0	5.00	1.00	19	19	1.042
104 FITTING RM.	1	33	46.0	0.00	0.0	0.00	1.00	0	0	1.121
105 REST.	1	54	77.0	0.00	0.0	0.00	1.00	0	0	1.121
106 REST.	1	49	69.0	0.00	0.0	0.00	1.00	0	0	1.121
107 JAN. CL.	1	15	21.0	0.00	0.0	0.00	1.00	0	0	1.121
108 WORK ROOM	1	267	176.0	0.06	2.0	5.00	1.00	21	21	1.044
109 MANAGER'S OFFICE	1	213	158.0	0.06	2.0	5.00	1.00	19	19	1.029
110 ELECT/TELE	1	249	95.0	0.00	0.0	0.00	1.00	0	0	1.121
112 CORRIDOR	1	151	213.0	0.06	0.0	0.00	1.00	13	13	1.036
Totals (incl. Space Multipliers)		5949						719		0.972

SUPPLEMENTAL AIR DEVICES SCHEDULES

Mark	Face Size	Description	Count	Manufacturer	Model
ETR-LV	<varies>	EXISTING TO REMAIN LOUVER	2	N/A	
RG-1	<varies>	24x24 ALUMINUM AIR DEVICES	7	TITUS	<varies>
SD-2	24"x24"	24x24 ALUMINUM AIR DEVICES	3	TITUS	TMS-AA
SD-3	24"x24"	24x24 ALUMINUM AIR DEVICES	5	TITUS	TMS-AA
SD-4	24"x24"	24x24 ALUMINUM AIR DEVICES	11	TITUS	TMS-AA
SD-S1	11"x11"	12x12 ALUMINUM AIR DEVICES	3	TITUS	TMS-AA

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12621 Tamiami Trl E,
Naples, FL 34113

MECHANICAL SCHEDULES

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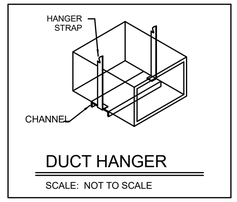
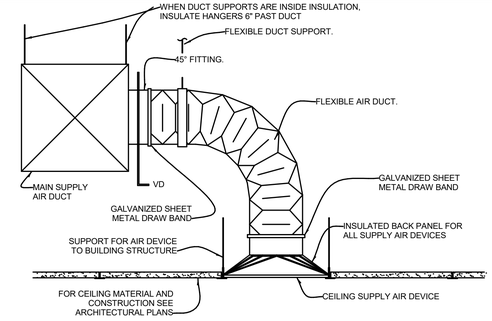


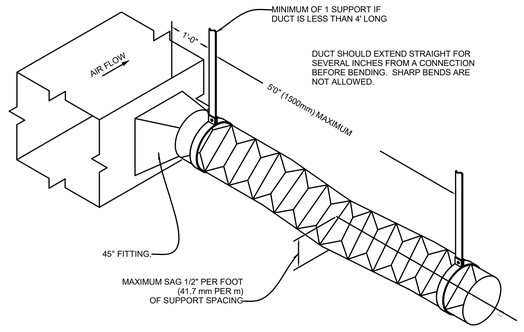
DUCT HANGER

SCALE: NOT TO SCALE



SUPPLY AIR DEVICE CONNECTION DETAIL

NOT TO SCALE

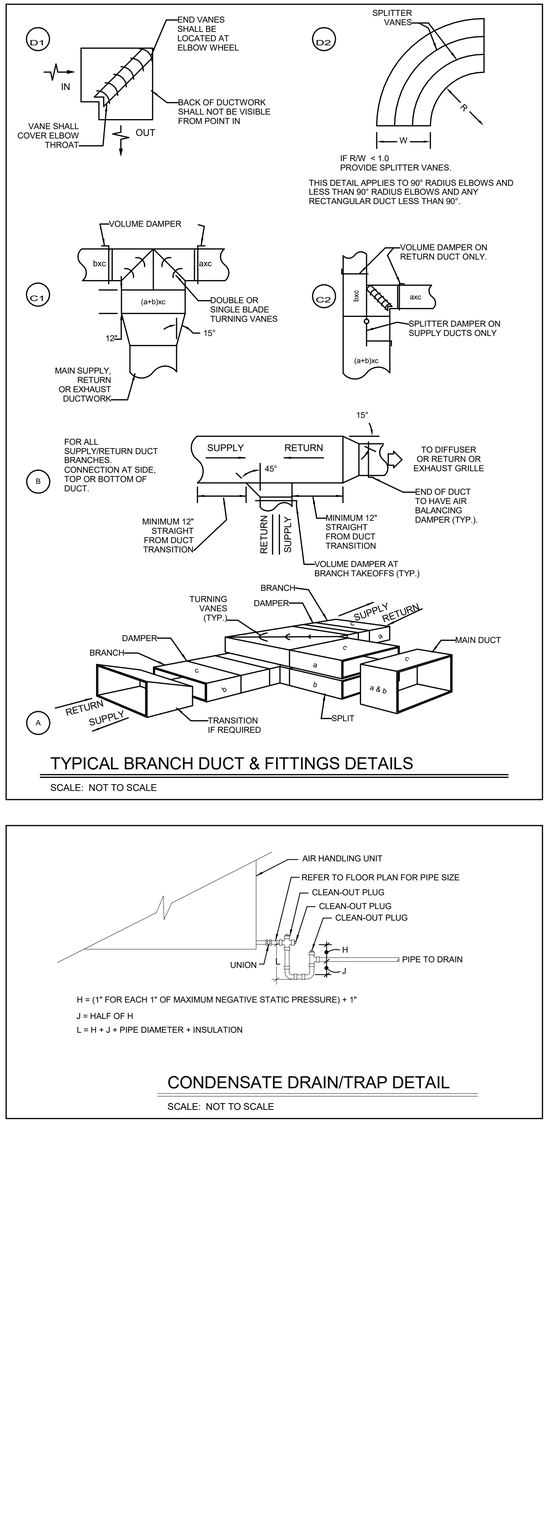


NOTE: CLOSER MAXIMUM HANGER INTERVALS MAY BE SPECIFIED AS A CONDITION OF U.L. LISTING, PARTICULARLY IN FIRE RATED FLOOR-CEILING ASSEMBLIES.

FLEXIBLE DUCT SUPPORTS DETAIL

NOT TO SCALE

AS PER HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE SMACNA - THIRD EDITION



TYPICAL BRANCH DUCT & FITTINGS DETAILS

SCALE: NOT TO SCALE

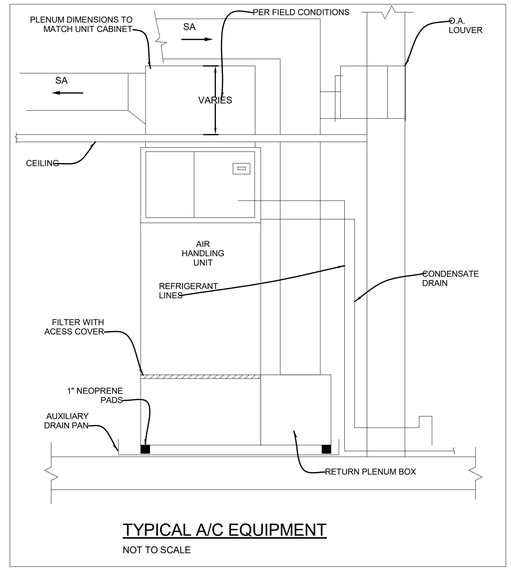
H = (1" FOR EACH 1" OF MAXIMUM NEGATIVE STATIC PRESSURE) + 1"

J = HALF OF H

L = H + J + PIPE DIAMETER + INSULATION

CONDENSATE DRAIN/TRAP DETAIL

SCALE: NOT TO SCALE

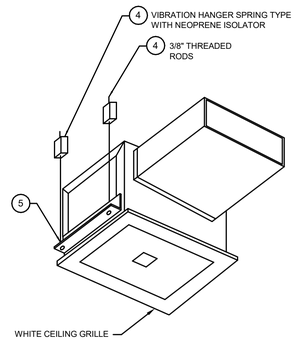


TYPICAL A/C EQUIPMENT

NOT TO SCALE

EXHAUST FAN NOTES:

1. PROVIDE GRAVITY BACK DRAFT DAMPER WITH BIRDSCREEN.
2. FLASH AND SEAL WALL AND ROOF CAP AS REQUIRED FOR THIS PROJECT INSTALLATION.
3. PROVIDE INTERNAL ISOLATION AND SOUND INSULATION.
4. SUPPORT FAN FROM STRUCTURE BASED ON CEILING CONSTRUCTION (I.E. SUSPENDED CEILING SYSTEM).
5. INSTALL FAN HOUSING INTO FRAMED AND SHEET ROCK CEILING ASSEMBLIES BASED ON FAN MANUFACTURERS INSTALLATION INSTRUCTION AND ADJUSTABLE MONITORING HARDWARE.
6. FAN EXHAUST CONNECTING SIZE: TRANSITION RECTANGULAR TO ROUND BASED ON MECHANICAL FLOOR PLANS FAN SCHEDULES, AND OR THE FAN MANUFACTURERS DESIGN REQUIREMENTS. THE DUCTWORK. REFER TO MECHANICAL SPECIFICATIONS FOR APPROVED TYPES USED ON THIS PROJECT.



CABINET CEILING FAN DETAIL

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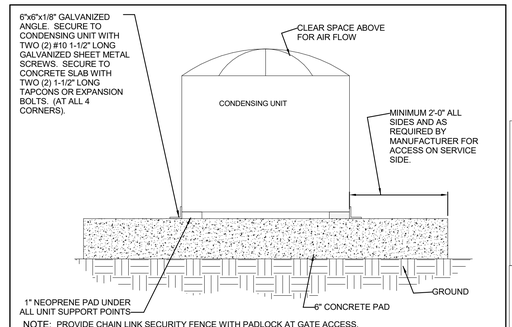

NOTE: PROVIDE CHAIN LINK SECURITY FENCE WITH PADLOCK AT GATE ACCESS.

CONDENSING UNIT CONCRETE PAD DETAIL

SCALE: NOT TO SCALE

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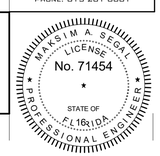

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LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	LAMPS QTY	LAMPS WATTS/TYPE	VOLTS	MOUNTING	COMMENTS
A	LITHONIA	CPHB 12000LM SEF GCL MD MVOLT GZ10 40K 80CRI DBL MEZ226288	-	61W LED	120V	SUSPEND AT 12'-0" AFF	LED HIGH BAY LIGHT AND AIRCRAFT CABLE MOUNTING HARDWARE. COORDINATE SELECTION FINISH AND QUANITY WITH OWNER.
B	LITHONIA	2BLT4 40L ADP 347 LP840	-	30W/LED	120V	CEILING GRID	LED 2' X 4' LAY-IN LIGHT FIXTURE. 4000K, LED. COORDINATE SELECTION FINISH AND QUANITY WITH OWNER.
C	LITHONIA	LDN6 40/20 LO6 AR LSS MVOLT EZ 10	-	-W LED	120V	RECESSED	ROUND RECESSED DOWNLIGHT, COORDINATE SELECTION FINISH AND QUANITY WITH OWNER. WET RATED.
D	LITHONIA	SQP602 L1L35 FLD UL1L35 UFLD 40K MVOLT ESL UESL SWK FINISH	-	-W LED	MVOLT	WALL SURFACE	EXTERIOR WALL SCONCE COORDINATE SELECTION FINISH AND QUANITY WITH OWNER. WET RATED.
L	JUNO	R606L-40K-80CRI-PDIM-WFL-BL	-	13W/LED	120V	TREC TRACK	TRACK LIGHT. COORDINATE FINAL TRACK LENGTH, CYLINDER TYPE AND SELECTION FINISH WITH OWNER BEFORE PURCHASE. ALL TRACK LIGHTING TO BE INSTALLED IAW NEC 410.151 / 220.43(B)
M	LITHONIA	LDN6 40/20 LO6 AR LSS MVOLT EZ 10	-	-W LED	120V	RECESSED	ROUND RECESSED DOWNLIGHT, COORDINATE SELECTION FINISH AND QUANITY WITH OWNER. WET RATED.
M/EM	LITHONIA	LDN6 40/20 LO6 AR LSS MVOLT EZ 10 / EZ10	-	-W LED	120V	RECESSED	ROUND RECESSED DOWNLIGHT WITH BATTERY BACKUP COORDINATE SELECTION FINISH AND QUANITY WITH OWNER. WET RATED WITH BATTERY
S	LITHONIA	HZL1D L48 3000LM FST MVOLT 35K 80CRI	-	-W LED	120V	STRIP LIGHT	LED STRIP LIGHT WITH DROP LENS AND UPLIGHT 2', 4' AND 8'
WP	LITHONIA	WPX1 LEDP2 40K MVOLT DDBXD	-	-W LED	120V	SURFACE MOUNTED	WET RATED WALL PACK COORDINATE SELECTION FINISH AND QUANITY WITH OWNER.
WP/EM	LITHONIA	WPX1 LEDP2 40K MVOLT DDBXD / E4WH	-	-W LED	120V	SURFACE MOUNTED	WET RATED WALL PACK WITH BATTERY BACKUP. COORDINATE SELECTION FINISH AND QUANITY WITH OWNER.
EL	LITHONIA	EU2C B HO M6	-	1.8W/LED	120/ 277V	WALL MOUNT	120V OR 277V AC. EMERGENCY UNIT PROVIDED WITH TEST SWITCH, STATUS INDICATOR AND RECHARGEABLE BATTERY. MAINTENANCE-FREE NICKEL-CADMIUM BATTERY PROVIDES 90 MINUTES OF EMERGENCY POWER.
EM/EX	LITHONIA	ELM6L UVOLT LTP SDRT	-	10.6W LED	120/ 277V	SUSPEND @ 12'0" AFF	120V OR 277V AC. EMERGENCY UNIT PROVIDED WITH TEST SWITCH, STATUS INDICATOR AND RECHARGEABLE BATTERY. MAINTENANCE-FREE NICKEL-CADMIUM BATTERY PROVIDES 90 MINUTES OF EMERGENCY POWER.
EX	LITHONIA	LHQM LED B R HO SD M6	-	2W/LED	120/ 277V	CEILING OR WALL MOUNT	EXIT SIGN WITH RED LETTERS. WHITE THERMOPLASTIC HOUSING. MAINTENANCE-FREE NI-CAD BATTERY PROVIDES 90 MINUTES OF EMERGENCY POWER.

NOTES:
1. SUBSTITUTIONS WILL NOT BE PERMITTED WITHOUT APPROVAL FROM THE ENGINEER, FOURTEEN DAYS PRIOR TO BID DATE.
2. VERIFY LIGHTING FIXTURE COLOR/FINISH WITH ARCHITECT PRIOR TO ORDERING.
3. ADJUST MOUNTING HEIGHTS/LOCATIONS TO SUIT FIELD CONDITIONS.
4. (2) LAMPS TO BE WIRED IN PARALLEL FOR EMERGENCY BALLAST.

ELECTRICAL SHEET INDEX

Sheet Number	Sheet Name
E001	ELECTRICAL GENERAL
E100	ELECTRICAL SPECIFICATIONS
E201	ELECTRICAL LIGHTING DEMO CEILING PLAN
E301	ELECTRICAL POWER DEMO FLOOR PLAN
E401	ELECTRICAL LIGHTING CEILING PLAN
E501	ELECTRICAL POWER PLAN
E701	ELECTRICAL SCHEDULES
E801	ELECTRICAL RISER DIAGRAM
E901	ELECTRICAL DETAILS

ELECTRICAL SYMBOL LEGEND

SWITCHES

WITH POWER PACKS

$ MANUAL/AUTOMATIC SWITCH. SWITCH HAS PUSHBUTTON OVERRIDE IF OCCUPANTS ARE PRESENT. RECESS MOUNT 48"AFF TO CENTER OF BACKBOX. "3" OR "4" INDICATES SWITCH IS USED FOR 3-WAY OR 4-WAY OPERATION, FOLLOW MANUFACTURER'S WIRING DIAGRAM FOR CONNECTION OF SWITCHES.

$ MANUAL ONLY SWITCH. PROVIDE DECORA TYPE FOR DWELLING UNITS AND FINISHED SPACES. COORDINATE WITH ARCHITECT.

"3" / "4" INDICATES THREE-WAY OR FOUR-WAY SWITCH FOR SYMBOLS ABOVE.

$ 2P "2P" INDICATES A 2-POLE SWITCH.

$FC CEILING FAN SPEED CONTROLLER AND LIGHTING DIMMER. COORDINATE WITH FAN MANUFACTURER REQUIREMENTS.

D "D" INDICATES DIMMER SWITCH. COORDINATE REQUIREMENTS WITH LIGHT FIXTURE(S) TO BE DIMMED.

"K" INDICATES KEY SWITCH. PROVIDE OWNER WITH (2) KEYS PER SWITCH. MATCH ANY EXISTING KEYED SWITCHES IF RENOVATION. VERIFY KEY TYPE (MANUFACTURER) WITH OWNER

$ M "M" INDICATES THE SWITCH SHALL BE MOTOR DUTY RATED

$ OS "OS" INDICATES OCCUPANCY SENSOR SWITCH

"TS" INDICATES INTERVAL TIMER SWITCH PROGRAMMED FOR 20 MINUTES MAXIMUM ALLOWED TIME

"R" INDICATES DEVICE SHALL BE A RED COLOR. DEVICE IS CONNECTED TO A CIRCUIT FED FROM A GENERATOR (IF APPLICABLE).

$a LOWER CASE LETTER (i.e. "a") INDICATES THE FIXTURE(S) CONTROLLED BY THE SWITCH.

LIGHTING FIXTURES (REFER TO THE "LIGHTING FIXTURE SCHEDULE")

A2 b 2' x 4' LIGHT FIXTURE (SEE LIGHT FIXTURE SCHEDULE)
NOTE: THE FOLLOWING ABBREVIATIONS APPLY TO LIGHTING FIXTURES WHERE INDICATED:
UPPER CASE LETTER/NUMBER (i.e. 'A2') INDICATES FIXTURE TYPE.
LOWER CASE LETTER (i.e. 'b') INDICATES CONNECTION TO INDICATED SWITCH.

EM NOTE: THE FOLLOWING ABBREVIATIONS APPLY TO LIGHTING FIXTURES WHERE INDICATED:
"EM" INDICATES LIGHT FIXTURE WITH EMERGENCY BATTERY PACK.

LIGHT FIXTURE (SEE LIGHT FIXTURE SCHEDULE)

DOWNLIGHT

WALL SCONCE

PENDANT

EXIT SIGN WITH BATTERY PACK, MOUNTED WITHIN 6'-8" OF TOP OF OPENING PER NFPA 101:7.10.1.9. FACES AND ARROWS SHALL BE AS INDICATED ON PLANS. CONNECT FIXTURE TO LIGHTING CIRCUIT SERVING THE AREA, AHEAD OF ANY SWITCHING OR CONTROLS.

EMERGENCY EGRESS LIGHTING UNIT WITH BATTERY PACK MOUNTED 7'-6" AFF OR AS INDICATED. CONNECT FIXTURE TO LIGHTING CIRCUIT SERVING THE AREA, AHEAD OF ANY SWITCHING OR CONTROLS.

EXIT SIGN AND EMERGENCY EGRESS LIGHTING COMBO UNIT WITH BATTERY PACK MOUNTED 7'-6" AFF. CONNECT FIXTURE TO LIGHTING CIRCUIT SERVING THE AREA, AHEAD OF ANY SWITCHING OR CONTROLS.

I PASSIVE INFRARED (PIR) OCCUPANCY SENSOR. 360°. 450 SQ. FT. COVERAGE. SENSOR SWITCH CM 10. CONNECT TO LOCAL POWER PACK.

M MULTI-TECHNLOGY (PIR & ULTRASONIC) OCCUPANCY SENSOR. 360°. 1000 SQ. FT. COVERAGE. SENSOR SWITCH CM-PDT-10. CONNECT TO LOCAL POWER PACK.

M EXT. EXTERIOR PASSIVE INFRARED (PIR) OCCUPANCY SENSOR SBO-10-OEX. CONNECT TO LOCAL POWER PACK. PROVIDE BOX FOR CEILING MOUNTING.

PP OCCUPANCY SENSOR POWER PACK. 20A @120/277VAC. PROVIDE QUANTITY AS NEEDED. SENSOR SWITCH PP-20-2P. CONNECT TO LOCAL OCCUPANCY SENSORS.

PS LED POWER SUPPLY (TECLED MODEL: VBS-12060D024)

COMMUNICATIONS

1-GANG, DEEP BOX FOR TELEPHONE OUTLET, RECESS MOUNT 18" TO CENTER OF BACKBOX AFF, ABOVE COUNTER OR AS NOTED. INSTALL 3/4" CONDUIT WITH BUSHINGS AND PULL STRING STUBBED INTO ACCESSIBLE CEILING SPACE ABOVE BACKBOX. INSTALL BLANK COVERPLATE. NUMBER OF PHONE JACKS AS INDICATED OR INSTALL BLANK COVERPLATE. 'W' INDICATES PHONE WILL BE WALL MOUNTED, MOUNT AT 48" AFF TO CENTER OF BACKBOX AND INSTALL WALL PHONE PLATE.

TV (2) GANG, DEEP BOX FOR DECORA STYLE DUPLEX RECEPTACLE AND TELEVISION OUTLET. COORDINATE MOUNTING HEIGHT AND LOCATION. INSTALL 3/4" CONDUIT FOR LOW VOLTAGE WIRING WITH BUSHINGS AND PULL STRING STUBBED INTO ACCESSIBLE CEILING SPACE ABOVE BACKBOX. INSTALL DECORA COVERPLATE.

1-GANG, DEEP BOX FOR TELEPHONE / DATA OUTLET, RECESS MOUNT 18" TO CENTER OF BACKBOX AFF, ABOVE COUNTER OR AS NOTED. INSTALL 3/4" CONDUIT WITH BUSHINGS AND PULL STRING STUBBED INTO ACCESSIBLE CEILING SPACE ABOVE BACKBOX. INSTALL BLANK COVERPLATE.

C COAXIAL CABLE OUTLET. COORDINATE WITH LOW VOLTAGE PROVIDER.

CABINET. SEE PLANS AND SPECIFICATIONS FOR USAGE AND REQUIREMENTS.

MISCELLANEOUS

1 KEYED NOTE INDICATOR. REFER TO THE "KEYED NOTES" WHERE INDICATED.

R T EXHAUST FAN.
'R' SYMBOL INDICATES TO PROVIDE AND INSTALL 10 MINUTE TIME DELAY OFF RELAY. EXHAUST FAN SHALL OPERATE FOR 10 MINUTES AFTER LIGHTING SWITCH IS TURNED OFF. CONNECT HOT LEAD FROM AHEAD OF SWITCH TO RELAY FOR DELAYED OPERATION AND SWITCH LEG TO RELAY FOR NORMAL OPERATION.
'T' SYMBOL INDICATES TO PROVIDE AND INSTALL 277V-120V TRANSFORMER. WATTAGE OF TRANSFORMER VA SHALL BE A MINIMUM 20% GREATER THAN EXHAUST FAN POWER REQUIREMENTS, COORDINATE WITH MECHANICAL CONTRACTOR.

MD MOTORIZED DAMPER. PROVIDE POWER AND MAKE CONNECTIONS AS INDICATED. COORDINATE WITH MECHANICAL CONTRACTOR.

SP 1 CEILING MOUNTED SPEAKER LOCATIONS ON A/V SYSTEM

ABBREVIATIONS

AFF	HEIGHT ABOVE FINISHED FLOOR	PH	PHASE
AFG	HEIGHT ABOVE FINISHED GRADE	REL	RELOCATED
ETR	EXISTING TO REMAIN	REM	TO BE REMOVED
EXT	EXTERIOR TYPE WIRING DEVICE OR CIRCUIT BREAKER	REP	REPLACE WITH NEW
		TBR	TO BE RELOCATED
LTG	LIGHTING	U.N.O.	UNLESS NOTED OTHERWISE
MH	MOUNTING HEIGHT	VA	VOLT AMPERE (POWER)
MTR	MOTOR	WP	WEATHERPROOF ENCLOSURE
N.I.C.	NOT IN CONTRACT	XFMR	TRANSFORMER
NF	NON-FUSED	+48"	DEVICE MOUNTED AT HEIGHT INDICATED

WIRING DEVICES

NOTE: THE FOLLOWING ABBREVIATIONS APPLY TO WIRING DEVICES WHERE INDICATED:

'WP'	INDICATES WEATHERPROOF WHILE-IN-USE ENCLOSURE. ENCLOSURE SHALL HAVE LOCKABLE COVER. DEVICES SHALL BE LISTED AS WEATHER RESISTANT. (WR)
'EWC'	INDICATES DEVICE MOUNTED BEHIND ELECTRIC WATER COOLER ENCLOSURE. COORDINATE DEVICE LOCATION WITH PLUMBING CONTRACTOR AND APPROVED SHOP DRAWINGS PRIOR TO ROUGH-IN. CIRCUIT BREAKER SHALL BE GFCI TYPE.
'H'	INDICATES HORIZONTALLY MOUNTED WIRING DEVICE.
'R'	INDICATES DEVICE SHALL BE A RED COLOR. DEVICE IS CONNECTED TO A CIRCUIT FED FROM THE GENERATOR (IF APPLICABLE).
'FD'	INDICATES RECEPTACLE MOUNTED IN FLOOR DUCT. INSTALL ACCESSORIES FOR MOUNTING OF RECEPTACLE IN FLOOR DUCT SYSTEM.
'IG'	ISOLATED GROUND
'USB'	INDICATES RECEPTACLE WITH USB OUTLETS.

20 AMP SIMPLEX RECEPTACLE, RECESS MOUNT 18" AFF TO CENTER OF BACKBOX OR AT HEIGHT INDICATED.

20 AMP DUPLEX RECEPTACLE, RECESS MOUNT 18" AFF TO CENTER OF BACKBOX.

20 AMP DUPLEX RECEPTACLE, RECESS MOUNT AT HEIGHT INDICATED OR ABOVE COUNTER, CASEWORK, ETC. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND EXISTING CONDITIONS PRIOR TO ROUGH-IN.

AFCI 20 AMP DUPLEX RECEPTACLE WITH ARC FAULT CIRCUIT INTERRUPTER (AFCI) PROTECTION, RECESS MOUNT AT HEIGHT INDICATED OR ABOVE COUNTER, CASEWORK, ETC. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND EXISTING CONDITIONS PRIOR TO ROUGH-IN.

AFCI 20 AMP DUPLEX RECEPTACLE WITH ARC FAULT CIRCUIT INTERRUPTER (AFCI) PROTECTION, RECESS MOUNT 18" AFF TO CENTER OF BACKBOX. 1 OF 2 RECEPTACLES IS SWITCHED, REMOVE JUMPER BETWEEN OUTLETS.

AFCI 20 AMP DUPLEX RECEPTACLE WITH ARC FAULT CIRCUIT INTERRUPTER (AFCI) PROTECTION, RECESS MOUNT 18" AFF TO CENTER OF BACKBOX.

20 AMP DOUBLE DUPLEX (QUAD) RECEPTACLE WITH COMMON COVER PLATE, RECESS MOUNT 18" AFF TO CENTER OF BACKBOX.

20 AMP DOUBLE DUPLEX (QUAD) RECEPTACLE WITH COMMON COVER PLATE, RECESS MOUNT ABOVE COUNTER, CASEWORK, ETC OR AT HEIGHT INDICATED. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND CONDITIONS PRIOR TO ROUGH-IN.

20 AMP DUPLEX RECEPTACLE, RECESS MOUNT 18" AFF TO CENTER OF BACKBOX. 1 OF 2 RECEPTACLES IS SWITCHED, REMOVE JUMPER BETWEEN OUTLETS.

F 20 AMP DUPLEX RECEPTACLE. RECESS FLUSH WITH FLOOR IN SINGLE GANG FLOOR BOX. COVER SHALL BE BRASS WITH HINGED LID FOR EACH OUTLET OF RECEPTACLE.

F 20 AMP DOUBLE DUPLEX (QUAD) RECEPTACLE. RECESS FLUSH WITH FLOOR IN DOUBLE GANG FLOOR BOX. COVER SHALL BE BRASS WITH HINGED LID FOR EACH OUTLET OF RECEPTACLES.

GFI 20A SIMPLEX RECEPTACLE WITH GFCI PROTECTION MOUNTED AT HEIGHT OR AS INDICATED. VERIFY RATING AND NEMA CONFIGURATION FOR EQUIPMENT TO BE CONNECTED.

GFI 20 AMP DUPLEX RECEPTACLE WITH GFCI PROTECTION, RECESS MOUNT 18" AFF TO CENTER OF BACKBOX.

GFI 20 AMP DUPLEX RECEPTACLE WITH GFCI PROTECTION, RECESS MOUNT ABOVE SINK, COUNTER, CASEWORK, ETC. OR AT HEIGHT INDICATED. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND CONDITIONS PRIOR TO ROUGH-IN.

GFI 20 AMP DOUBLE DUPLEX (QUAD) RECEPTACLE WITH GFCI PROTECTION AND COMMON COVER PLATE, RECESS MOUNT 18" AFF TO CENTER OF BACKBOX.

MULTI-POLE RECEPTACLE FOR APPLIANCE MOUNTED AS INDICATE. COORDINATE AMPERAGE RATING, POLES, NEMA CONFIGURATION, ETC. WITH EQUIPMENT TO BE CONNECTED.

H 20 AMP DUPLEX RECEPTACLE, RECESS MOUNT HORIZONTALLY AT HEIGHT INDICATED.

20 AMP DUPLEX RECEPTACLE MOUNTED 18" AFF, ABOVE COUNTER, OR AT HEIGHT INDICATED (INDICATES RECEPTACLE COORDINATED WITH DATA OUTLET FOR COMPUTER USE).

20 AMP DOUBLE DUPLEX (QUAD) RECEPTACLE MOUNTED 18" AFF, ABOVE COUNTER, OR AT HEIGHT INDICATED (INDICATES RECEPTACLE COORDINATED WITH DATA OUTLET FOR COMPUTER USE).

POWER POLE. 2-SECTION (POWER AND COMMUNICATIONS), 2" SQUARE METALLIC, BRUSHED ALUMINUM FINISH. DEVICES MOUNTED AT POLE AS SHOWN. POLE SHALL EXTEND FROM FLOOR TO CEILING, SECURE TO CEILING.

20 AMP DUPLEX RECEPTACLE, FLUSH MOUNT AT CEILING. SUPPORT BACKBOX FROM STRUCTURE, NOT GRID.

F 2-SECTION FLOOR BOX WITH DUPLEX RECEPTACLE AND DATA SECTION. FLOOR BOX SHALL BE FLUSH WITH FLOOR WITH CARPET/TILE PLATE AND TRAP DOOR FOR WIRING OUT OF BOX.

J JUNCTION BOX. FAN RATED IN DWELLING UNITS.

DC DROP CORD. RECEPTACLE AND BOX SUSPENDED FROM JUNCTION BOX AT CEILING WITH S/O CORD. PROVIDE STRAIN RELIEF AT EACH END OF CORD. RECEPTACLE SHALL BE TYPE OF DEVICE SHOWN.

PLUGMOLD WITH RECEPTACLES 12" ON-CENTER. PLUGMOLD SHALL BE NON-METALLIC, 2-PIECE. MOUNT AS INDICATED. VERIFY COLOR OF FINISH.

POWER DISTRIBUTION (REFER TO THE "ELECTRICAL RISER DIAGRAM")

PANELBOARD, RECESS MOUNT IN FINISHED SPACES, SURFACE MOUNT IN BACK OF HOUSE. REFER TO THE "PANELBOARD SCHEDULE".

FEEDER OR BRANCH CIRCUIT RACEWAY CONCEALED IN WALL, CEILING.

FEEDER OR BRANCH CIRCUIT RACEWAY CONCEALED UNDER FLOOR, IN SLAB OR BELOW GRADE.

DISCONNECT SWITCH. PROVIDE DISCONNECT SWITCH AS INDICATED ON THE SCHEDULES. REFER TO PLANS AND SCHEDULES FOR ADDITIONAL REQUIREMENTS. FUSES SHALL BE DUAL ELEMENT TIME DELAY. VERIFY NAMEPLATE RATINGS OF FRAME SIZE AND FUSING OF THE ACTUAL EQUIPMENT TO BE INSTALLED.

45 DRY-TYPE VENTILATED TRANSFORMER. SEE SPECIFICATIONS, PLANS AND RISER FOR REQUIREMENTS. TRANSFORMERS SHALL BE NEMA 1 UNLESS AT THE EXTERIOR OR IN AREAS WHERE WATER MAY BE PRESENT. MOUNT ON 4" HOUSE KEEPING PAD BOLTED TO PAD. MAINTAIN REQUIRED CLEARANCE FROM WALLS OR OBSTRUCTIONS FOR VENTILATION.

GROUND TO METAL FRAME OF BUILDING, SLAB STEEL, OTHER MADE ELECTRODES, AND METAL UNDERGROUND WATER PIPE. PROVIDE A MINIMUM OF (3) 5/8" DIA, 10 FOOT LONG COPPER CLAD GROUND RODS LOCATED AT LEAST 6 FEET APART. ALL CONCEALED CONNECTIONS SHALL BE EXOTHERMICALLY WELDED. INTERIOR GROUND RODS SHALL STUB ABOVE FLOOR AT LOCATIONS NOT INTERFERING WITH FOOT TRAFFIC. LOCATE EXTERIOR GROUND ROD ASSEMBLY IN LANDSCAPE AREA OR PROVIDE WELL FOR ACCESS TO EACH GROUND ROD IF ASSEMBLY IS LOCATED IN HARD SURFACE AREAS, SUCH AS CONCRETE, ASPHALT, ETC. PROVIDE BOLTED PRESSURE CLAMP WITH AT LEAST TWO BOLTS ON RODS IN TEST WELLS. ALL GROUND ROD LOCATIONS SHALL BE ACCESSIBLE.

VFD VARIABLE FREQUENCY DRIVE. REFER TO SPECIFICATIONS, AND FLOOR PLANS FOR ADDITIONAL ELECTRICAL REQUIREMENTS. VFD SUPPLIED BY MECHANICAL CONTRACTOR (U.N.O.) AND INSTALLED BY ELECTRICAL CONTRACTOR. ALL CONNECTIONS TO VFD, DISCONNECT AND EQUIPMENT SERVED SHALL BE BY THE ELECTRICAL CONTRACTOR. CIRCUIT SHALL UTILIZE METAL CONDUIT TO MINIMIZE RFI NOISE.

COMBINATION MOTOR STARTER WITH FUSED DISCONNECT OR CIRCUIT BREAKER DISCONNECT. REFER TO PLANS AND SCHEDULES FOR ADDITIONAL REQUIREMENTS. FUSES SHALL BE DUAL ELEMENT TIME DELAY. VERIFY NAMEPLATE RATINGS OF FRAME SIZE AND FUSING OF THE ACTUAL EQUIPMENT TO BE INSTALLED.

LP-1 PANEL HOMERUN/CIRCUIT

PANEL DESIGNATION/CIRCUIT NUMBER

NOTE: NOT ALL SYMBOLS SHOWN ON LEGEND ARE USED ON FLOOR PLANS.

GENERAL NOTES

GENERAL NOTES APPLY TO ALL ELECTRICAL SHEETS

1. DO NOT SCALE FROM THESE DRAWINGS.
2. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE 2020 EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) NFPA 70.
3. ELECTRICAL CONTRACTOR (E.C.) SHALL COORDINATE WORK WITH ALL OTHER TRADES TO ASSURE PROPER CLEARANCES FOR EQUIPMENT AND TO KEEP THE JOB PROGRESSING.
4. DRAWINGS ARE BASED ON FIELD OBSERVATION AND EXISTING DOCUMENTS. REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE DISTURBING EXISTING INSTALLATION.
5. EXISTING TO REMAIN ELECTRICAL CIRCUITRY DOWNSTREAM AND UPSTREAM OF DEMOLISHED DEVICES SHALL BE MAINTAINED. E.C. SHALL PROVIDE ALL ELECTRICAL COMPONENTS (BOXES, CONDUIT, WIRING, ETC.) AS REQUIRED.
6. ELECTRICAL CONTRACTOR SHALL BE REQUIRED TO CUT, CAPTURE AND EXTEND OR RE-ROUTE EXISTING CONDUITS AND CONDUCTORS AS REQUIRED TO ACCOMMODATE NEW DUCTWORK. COORDINATE WITH MECHANICAL CONTRACTOR AS REQUIRED.
7. REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT NEEDING ELECTRICAL CONNECTIONS (MOTORS, FANS, PUMPS, ETC.). MAKE ALL CONNECTIONS AND PROVIDE APPROPRIATE WIRE, CONDUIT, AND OVERCURRENT PROTECTION FOR ALL EQUIPMENT. INSTALL ANY ELECTRICAL EQUIPMENT (STARTERS, RELAYS, VFD'S, ETC.) FURNISHED BY MECHANICAL CONTRACTOR (DIV 15). COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.
8. VOLTAGE DROP: THE CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS COMBINED SHALL BE SIZED FOR A MAXIMUM OF 5% VOLTAGE DROP TOTAL PER FBC-ENERGY C405.5.3. USE 10 AWG CU. CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 75 FEET. USE 10 AWG CU. WHERE WIRE SIZE IS INCREASED IN SIZE FOR VOLTAGE DROP, E.G SHALL BE INCREASED PROPORTIONATELY. PER NEC 250.122 (B).
9. ALL CEILING MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLANS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION.
10. WHERE DISCONNECTING MEANS IS NOT PROVIDED "WITHIN SIGHT" FROM EQUIPMENT SERVED, THE OVERCURRENT DEVICE SERVING SUCH EQUIPMENT SHALL HAVE PERMANENT PROVISION TO LOCK IN THE OPEN POSITION PER NEC 422.31 AND 110.25.
11. CONDUIT RUNS SHOWN ARE DIAGRAMMATIC IN NATURE. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING AND LOCATING PULL BOXES PER NEC.
12. CONNECT EXIT SIGNS AND EGRESS LIGHTS TO LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHING PER NEC 700.12(I).
13. RECEPTACLES IN MECHANICAL ROOMS, ELECTRICAL ROOMS, STORAGE ROOMS, AND JANITOR CLOSETS SHALL BE G.F.C.I. TYPE MOUNTED AT 48" A.F.F.
14. PROVIDE REVISED PHOTOMETRICS FOR ANY SUBSTITUTE FIXTURES.

CONDUIT AND CONDUCTOR SCHEDULE

C.B.	POLES	WIRE SIZE (TYPE THW)	CONDUIT	PHASE
20A	1	2-#12, 1-#12 E.G.	3/4"	1□ 2W
	2	2-#12, 1-#12 E.G.		1□ 2W
	3	3-#12, 1-#12 E.G.		3□ 3W
	3	3-#12, 1-#12 N., 1-#12 E.G.		3□ 4W
25A	1	2-#10, 1-#10 E.G.	3/4"	1□ 2W
	2	2-#10, 1-#10 E.G.		1□ 2W
	3	3-#10, 1-#10 E.G.		3□ 3W
	3	3-#10, 1-#10 N., 1-#10 E.G.		3□ 4W
30A	1	2-#10, 1-#10 E.G.	3/4"	1□ 2W
	2	2-#10, 1-#10 E.G.		1□ 2W
	3	3-#10, 1-#10 E.G.		3□ 3W
	3	3-#10, 1-#10 N., 1-#10 E.G.		3□ 4W
35A	3	3-#8, 1-#10 E.G.	1"	3□ 3W
	3	3-#8, 1-#8 N., 1-#10 E.G.		3□ 4W
40A	2	2-#8, 1-#10 E.G.	1"	1□ 2W
	3	3-#8, 1-#10 E.G.		3□ 3W
	3	3-#8, 1-#8 N., 1-#10 E.G.		3□ 4W
45A	2	2-#8, 1-#10 E.G.	1"	1□ 2W
	3	3-#8, 1-#10 E.G.		3□ 3W
	3	3-#8, 1-#8 N., 1-#10 E.G.		3□ 4W
50A	2	2-#8, 1-#10 E.G.	1"	1□ 2W
	3	3-#8, 1-#10 E.G.		3□ 3W
	3	3-#8, 1-#8 N., 1-#10 E.G.		3□ 4W
60A	2	2-#6, 1-#10 E.G.	1"	1□ 2W
	3	3-#6, 1-#10 E.G.		3□ 3W
	3	3-#6, 1-#6 N., 1-#10 E.G.	1 1/4"	3□ 4W
70A	2	2-#4, 1-#8 E.G.	1"	1□ 2W
	3	3-#4, 1-#8 E.G.	1 1/4"	3□ 3W
	3	3-#4, 1-#4 N., 1-#8 E.G.		3□ 4W
80A	2	2-#4, 1-#8 E.G.	1"	1□ 2W
	3	3-#4, 1-#8 E.G.	1 1/4"	3□ 3W
	3	3-#4, 1-#4 N., 1-#8 E.G.		3□ 4W
90A	2	2-#3, 1-#8 E.G.	1 1/4"	1□ 2W
	3	3-#3, 1-#8 E.G.		3□ 3W
	3	3-#3, 1-#3 N., 1-#8 E.G.		3□ 4W
100A	2	2-#3, 1-#8 E.G.	1 1/4"	1□ 2W
	3	3-#3, 1-#8 E.G.		3□ 3W
	3	3-#3, 1-#3 N., 1-#8 E.G.		3□ 4W

NOTES:
1. ALL CONDUCTORS SHALL BE COPPER
2. ALL CONDUIT SHALL HAVE EQUIPMENT GROUNDING CONDUCTOR INSTALLED.
3. CONDUIT BELOW GRADE OUTSIDE OF BUILDING SHALL BE 1" MINIMUM.
4. SIZING OF CONDUCTORS SHALL BE ALTERED FOR DERATING PER N.E.C. OR VOLTAGE DROP CONSIDERATIONS.
5. SEE RISER DIAGRAM FOR SIZING OF CIRCUITS GREATER THAN 100A.
6. USE #10 AWG, COPPER CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 75 FEET. USE #10 AWG, COPPER CONDUCTORS FOR 20 AMPERE, 277 VOLT BRANCH CIRCUITS LONGER THAN 200 FEET. WHERE WIRE SIZE IS INCREASED IN SIZE FOR VOLTAGE DROP, EQUIPMENT GROUND SHALL BE INCREASED PROPORTIONATELY PER NEC 250.122 (B).
7. WHERE MC CABLE IS ALLOWED BY THE AUTHORITY HAVING JURISDICTION, THE CONDUCTORS FOR MC CABLE SHALL BE THHN. JACKET SHALL BE THE MANUFACTURER'S STANDARD SIZE FOR CONDUCTORS UTILIZED.

SPECIAL INFORMATIONAL NOTE:

THIS DRAWING PREPARED FOR TENANT IMPROVEMENTS TO AN EXISTING BUILDING OR BUILDING CONSTRUCTED BY OTHERS

IT IS UNDERSTOOD THAT ANY WARRANTY INFORMATION CONCERNING EQUIPMENT INSTALLED MUST BE FORWARDED TO THE OWNER AND THAT ANY AND ALL CONTRACTORS SHALL GUARANTEE THEIR WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF OWNERS ACCEPTANCE.

ENGINEER IS NOT RESPONSIBLE FOR MATERIALS, METHODS, INSTALLATION, AND CONSTRUCTION WHICH DEVIATE FROM CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY PHILIP J. FEIKEMA ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY

NORTH

PLAN NORTH

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ELECTRICAL GENERAL

ISSUE HISTORY

12/24/25	PERMIT SET	○
		△

JOB NO. TBD

PAGE NUMBER
E001

ELECTRICAL

PART 1 - GENERAL

0.01 GENERAL SCOPE

A. THIS PROJECT WILL REQUIRE POWER DISTRIBUTION, LIGHTING, AND LIGHTING CONTROLS SYSTEMS AS SHOWN ON THE PLANS AND INCLUDED IN THE SPECIFICATIONS.

B. THE SCOPE OF WORK SPECIFIED HEREIN CONSISTS OF PROVIDING (DEFINED AS FURNISH AND INSTALL) ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES REQUIRED TO COMPLETE THE ELECTRICAL AND RELATED WORK INDICATED ON THE DRAWINGS, AS SPECIFIED HEREIN AND SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT. ELECTRICAL WORK INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:

- PANELBOARDS
- CIRCUIT BREAKERS
- DISCONNECT SWITCHES
- GROUNDING
- RACEWAY FOR POWER DISTRIBUTION
- CONDUCTORS FOR POWER DISTRIBUTION
- WIRING DEVICES
- LIGHTING FIXTURES
- RACEWAY FOR COMMUNICATIONS WIRING (VOICE, DATA, CABLE TELEVISION)
- CONNECTION OF MOTORS, CONTROL DEVICES AND ELECTRICAL EQUIPMENT FURNISHED BY OTHERS
- TESTING
- FINAL ACCEPTANCE/WARRANTY
- RECORD DRAWINGS
- RACEWAY FOR SECURITY SYSTEM WIRING
- FIRE DETECTION AND ALARM SYSTEM

C. ITEMS SPECIFIED HEREIN, SHOWN ON THE DRAWINGS, AND/OR REASONABLY INTERPRETED FROM THE DRAWINGS THAT ARE NECESSARY TO COMPLETE THE ELECTRICAL WORK SHALL BE PROVIDED BY THIS DIVISION, WHETHER ITEM IS SPECIFICALLY SHOWN OR NOT.

1.01 GENERAL DOCUMENTS

A. ELECTRICAL CONTRACTOR SHALL BECOME THOROUGHLY ACQUAINTED WITH THE PROJECT SITE (e.g. EXISTING CONDITIONS) AND THE ENTIRE CONSTRUCTION DOCUMENTS PACKAGE (e.g. ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL DRAWINGS AND SPECIFICATIONS) BEFORE BID SUBMISSION. WORK OF THE ELECTRICAL CONTRACTOR MUST BE COORDINATED WITH THE WORK OF ALL TRADES.

B. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO DESCRIBE THAT COMPLETE ELECTRICAL AND SPECIAL SYSTEMS ARE REQUIRED. HOWEVER, THE WORK SHALL BE COMPLETE EVEN THOUGH ITEMS MAY NOT BE SPECIFICALLY CALLED FOR OR SHOWN. INSTALLATIONS SHALL MEET ALL GOVERNING CODES, SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT/ENGINEER AND ALL AGENCIES HAVING JURISDICTION.

C. WORK NOT COVERED IN THIS SECTION. RECESSES, CHASES, AND OTHER PROVISIONS TO BE MADE IN THE STRUCTURE AS REQUIRED TO ACCOMMODATE ELECTRICAL ITEMS, SUCH AS CONDUIT, PANELS, SWITCHES, ETC, SHALL BE PROVIDED BY THE TRADES CONCERNED. THE ELECTRICAL CONTRACTOR SHALL, HOWEVER, NOTIFY ALL SUCH TRADES OF HIS EXACT REQUIREMENTS AHEAD OF TIME AND SHALL PAY THE COSTS OF ANY CUTTING OR PATCHING CAUSED BY FAILURE TO DO SO. ALL SUCH REMEDIAL WORK SHALL BE DONE ONLY BY MECHANICS OF THE TRADES INVOLVED.

1.02 SUBMITTALS

A. PREPARATION: PRIOR TO STARTING WORK ON THE PROJECT, THE GENERAL AND ELECTRICAL CONTRACTORS SHALL STUDY THE COMPLETE SET OF CONTRACT DOCUMENTS AND COORDINATE WITH THE OTHER TRADES AS REQUIRED TO PREPARE FOR THE CONSTRUCTION ACTIVITIES.

B. MAXIMUM NUMBER OF PACKAGES: FURNISH SUBMITTALS AND SHOP DRAWINGS IN A MAXIMUM TOTAL OF 4 PACKAGES: ONE FOR SHOP DRAWINGS; ONE FOR EQUIPMENT, PRODUCTS, MATERIALS; ONE FOR TELECON SCHEDULE; AND IF NECESSARY, ONE EARLY PACKAGE FOR LONG LEAD ITEMS. INCORPORATE SUBMITTAL REVIEW COMMENTS PRIOR TO PURCHASING ANY EQUIPMENT OR COMMENCING WORK.

C. MATERIALS OR PRODUCTS: MATERIALS OR PRODUCTS SPECIFIED HEREIN OR INDICATED ON DRAWINGS BY TRADE NAME, MANUFACTURER'S NAME OR CATALOG NUMBERS SHALL BE INTERPRETED AS ESTABLISHING A STANDARD OF QUALITY AND DESIGN. ALL PRODUCTS, MATERIALS AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED, MANUFACTURED LESS THAN 12 MONTHS FROM INSTALLATION DATE, AND SHALL BE IN NEW CONDITION WHEN INSTALLED. ALL EQUIPMENT SHALL BE UL LISTED. COORDINATE WITH MANUFACTURER(S) AS REQUIRED TO PREPARE MATERIALS OR PRODUCT SUBMITTALS.

D. EQUIPMENT: EQUIPMENT SUBMITTALS SHALL INCLUDE DIMENSIONS, WEIGHTS, SPECIFIED ACCESSORIES, AND REQUIRED CLEARANCES, ELECTRICAL CHARACTERISTICS (E.G.,VOLTAGE RATING AMPERE RATING, HORSEPOWER IF APPLICABLE, POWER FACTOR, FREQUENCY ETC.), INSTALLATION DETAILS, CERTIFICATE AND COMPLIANCE STANDARD, SAFETY FEATURES, WARRANTY INFORMATION AND ALL OTHER RELEVANT DATA. COORDINATE WITH THE MANUFACTURER(S) AS REQUIRED TO PREPARE EQUIPMENT SUBMITTALS.

E. SHOP DRAWINGS: SHOP DRAWINGS SHALL SHOW THE COORDINATION OF CIRCUIT PATHWAYS AND ELECTRICAL EQUIPMENT INSTALLATION WITH NEW AND EXISTING OBSTACLES INCLUDING, BUT NOT LIMITED TO, MECHANICAL EQUIPMENT, CONDUITS, FIRE PROTECTION PIPING, RAIN LEADERS, SANITARY DRAINS, STRUCTURAL MEMBERS, AND WATER PIPING, AS WELL AS THE ELECTRICAL EQUIPMENT MANUFACTURERS' RECOMMENDED CLEARANCES. THE ELECTRICAL CONTRACTOR SHALL ALSO SHOW THE EXISTING CONDITIONS ON THE SHOP DRAWINGS WHERE THE EXISTING CONDITIONS ARE DIFFERENT FROM THOSE SHOWN ON THE CONTRACT DOCUMENTS. CONTRACT DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND INTENDED SOLELY TO CLARIFY THE SCOPE OF WORK AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS. THE CONTRACT DOCUMENTS ARE NOT INTENDED TO ALERT CONTRACTORS OF ALL OBSTACLES. INSTALLATION SHALL PROCEED FROM REVIEWED SHOP DRAWINGS BASED ON THE DESIGN INTENT OF THESE DOCUMENTS.

F. DEVIATION SUMMARY TABLE: ALL SUBMITTALS SHALL INCLUDE A CLEAR AND DETAILED "DEVIATION SUMMARY TABLE", IMMEDIATELY AFTER THE COVER PAGE OR IMMEDIATELY AFTER TABLE OF CONTENTS IF THERE IS ONE, ENUMERATING, OUTLINING AND DESCRIBING THE DIFFERENCES BETWEEN THE SUBMITTED ITEMS AND INTENT OF DESIGN DOCUMENTS. ADDITIONALLY, THE DEVIATION SUMMARY TABLE SHALL INCLUDE THE DATE OF THE ELECTRONIC SIGN/SEAL BLOCK OF THE DOCUMENTS ON WHICH THE SUBMITTALS ARE BASED ON. WHERE THE ELECTRICAL EOR HAS NOT SPECIFIED AN ITEM, OR HAS NOT SPECIFIED AN ITEM FULLY, "DEVIATION SUMMARY TABLE" SHALL CLEARLY STATE SO. IF THERE ARE NO DEVIATIONS FROM DESIGN, "DEVIATION SUMMARY TABLE" SHALL STATE SO. EOR SHALL BE ENTITLED TO RELY ON THE ACCURACY OF THE "DEVATION SUMMARY TABLE" IN HIS SUBMITTAL REVIEW. EOR MAY ACCEPT OR REJECT ANY PROPOSED SUBSTITUTIONS OR DEVIATIONS FROM DESIGN. SUBSTITUTIONS MAY BE ALLOWED IF THEY MEET THE QUALITY STANDARDS AND DESIGN INTENT.

G. IF INSTALLED WORK DOES NOT MEET THE STANDARDS SET WITHIN THESE DOCUMENTS, CONTRACTOR SHALL CORRECT INSTALLATION AT NO COST TO THE OWNER. THIS MAY REQUIRE INSTALLING ALTERNATE EQUIPMENT, MATERIALS OR SYSTEMS.

1.03 TELECONFERENCE MEETINGS

A. GOOD COMMUNICATION IS ESSENTIAL TO THE SUCCESS OF ANY PROJECT. SCHEDULE AND ATTEND THE FOLLOWING WITH EOR OR EOR'S REPRESENTATIVE:

A.A. PRE CONSTRUCTION TELECON: PRIOR TO STARTING CONSTRUCTION, TO DISCUSS PROJECT SCOPE, SCHEDULE, VALUE ENGINEERING OPPORTUNITIES AND CONCERNS.

A.B. PROGRESS TELECON MEETINGS: AT EACH [10][20][30]% OF CONSTRUCTION PROGRESS TO DISCUSS CONSTRUCTION PROGRESS AND ANY CONCERNS.

A.C. AS-NEEDED TELECON: IF AN ISSUE ARISES AND THE PROJECT WOULD BENEFIT FROM DISCUSSION PRIOR TO RFI.

A.D. SUBSTANTIAL COMPLETION TELECON: AT SUBSTANTIAL COMPLETION TO DISCUSS WORK REMAINING TO BE DONE.

1.04 PERMITS, TAXES, FEES.

A. ELECTRICAL CONTRACTOR SHALL OBTAIN ALL GOVERNMENTAL PERMITS, PAY ALL SALES TAXES AND OTHER ASSOCIATED FEES INCLUDING COSTS FOR UTILITY CONNECTIONS, REQUIRED TO PERFORM THE INTENDED ELECTRICAL WORK. ELECTRICAL CONTRACTOR SHALL FILE ALL NECESSARY PLANS, PREPARE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION. ELECTRICAL CONTRACTOR SHALL OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION FOR ELECTRICAL WORK AND DELIVER SAME TO THE OWNER AND ARCHITECT BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENT FOR THE WORK.

B. ELECTRICAL CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ALL LABOR, MATERIALS, SERVICES, APPARATUS, OR DRAWINGS NECESSARY TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS, WHETHER OR NOT SHOWN ON DRAWINGS AND/OR SPECIFIED.

C. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE FOLLOWING:

- NATIONAL ELECTRIC CODE 2020 EDITION
- FLORIDA BUILDING CODE 8TH EDITION (EFF. 12/31/2023)
- APPLICABLE STATE AND LOCAL CODES
- NATIONAL BUREAU OF FIRE UNDERWRITERS
- REGULATIONS OF THE SERVING UTILITY COMPANIES
- FLORIDA STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (SREF)

D. ALL MATERIAL AND EQUIPMENT PROVIDED FOR THE ELECTRICAL WORK SHALL BEAR THE APPROVAL LABEL, OR SHALL BE LISTED, BY UNDERWRITERS' LABORATORIES, INC.

1.05 MEASUREMENTS

A. SHOULD THE ELECTRICAL CONTRACTOR DISCOVER ANY DISCREPANCY BETWEEN ACTUAL MEASUREMENTS AND THOSE INDICATED ON THE DRAWINGS, WHICH PREVENTS FOLLOWING GOOD PRACTICE OR THE INTENT OF THE DRAWINGS AND SPECIFICATIONS, HE SHALL NOTIFY THE ARCHITECT/ELECTRICAL ENGINEER THROUGH THE GENERAL CONTRACTOR, AND SHALL NOT PROCEED WITH HIS WORK UNTIL HE HAS RECEIVED INSTRUCTIONS FROM THE ARCHITECT/ELECTRICAL ENGINEER. ALL REQUESTS FOR INFORMATION (RFI) SHALL INCLUDE A PROPOSED SOLUTION.

B. PRIOR TO ROUGH-IN OF EQUIPMENT THE GENERAL CONTRACTOR, ARCHITECT AND ELECTRICAL ENGINEER RESERVE THE RIGHT TO RELOCATE ANY PANELBOARD, DISCONNECT, STARTER, LIGHTING FIXTURE, WIRING DEVICE, COMMUNICATIONS OUTLET, ETC THREE (3) FEET IN ANY DIRECTION WITHOUT ANY ADDITIONAL CHARGE, FEE, OR CHANGE ORDER.

1.06 DRAWINGS

A. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL LOCATION OF THE ELECTRICAL AND SPECIAL SYSTEMS WORK INCLUDED IN THE CONTRACT. THE ENTIRE CONSTRUCTION DOCUMENTS PACKAGE (DRAWINGS AND SPECIFICATIONS) SHALL BE EXAMINED FOR EXACT LOCATION OF FIXTURES, DEVICES AND EQUIPMENT. WHERE ITEMS ARE NOT LOCATED BY THE DRAWINGS OR SPECIFICATIONS OF OTHER CONSULTANTS THEN THE ITEMS SHALL BE LOCATED PER THE ENGINEERING DRAWINGS, HOWEVER, THE DRAWINGS ARE NOT TO BE SCALED.

B. ELECTRICAL CONTRACTOR SHALL FOLLOW THE ELECTRICAL DRAWINGS IN LAYING OUT WORK AND SHALL COORDINATE WITH THE DRAWINGS OF OTHER TRADES TO VERIFY SPACES IN WHICH WORK WILL BE INSTALLED. MAINTAIN MAXIMUM HEADROOM AND SPACE AT ALL LOCATIONS. WHERE HEADROOM OR SPACE CONDITIONS APPEAR INADEQUATE, THE ARCHITECT/ELECTRICAL ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH INSTALLATION. ALL REQUESTS FOR INFORMATION (RFI) SHALL INCLUDE A PROPOSED SOLUTION.

C. IF DIRECTED BY THE ARCHITECT/ELECTRICAL ENGINEER, THE ELECTRICAL CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LOCATIONS OF ELECTRICAL WORK AS NEEDED TO PREVENT CONFLICTS WITH WORK OF OTHER TRADES AND FOR PROPER INSTALLATION OF THE WORK.

1.07 SUBSTITUTION OF SPECIFIED EQUIPMENT

A. MATERIALS OR PRODUCTS SPECIFIED BY TRADE NAME, MANUFACTURER'S NAME OR CATALOG NUMBER SHALL BE PROVIDED AS SPECIFIED.

B. SUBSTITUTIONS ARE NOT PERMITTED WITHOUT WRITTEN APPROVAL FROM THE ENGINEER VIA THE ARCHITECT TEN (1O) WORKING DAYS PRIOR TO BID DATE. APPROVALS OF "EQUIVALENT" MATERIALS OR PRODUCTS WILL BE MADE AVAILABLE TO ALL KNOWN BIDDERS AND ISSUED AS AN ADDENDUM (PRIOR TO BID) TO THE CONTRACT DOCUMENTS IF SUBSTITUTED MATERIALS OR PRODUCTS ARE APPROVED BY ARCHITECT/ELECTRICAL ENGINEER.

C. ANY CONTRACTOR PROPOSING AN 'EQUIVALENT' MATERIAL OR PRODUCT MUST SUBMIT, WITH THE REQUEST, COMPLETE CATALOG INFORMATION TO PERMIT EVALUATION OF THE PRODUCT. IN THE CASE OF LIGHTING FIXTURES, AN INDEPENDENT TESTING LABORATORY TEST REPORT (NOT THE MANUFACTURER'S) STATING FIXTURE EFFICIENCY AND PERFORMANCE, SHALL ACCOMPANY THE REQUEST.

D. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE CORRECTIONS TO ALL SITUATIONS CREATED BY THE SUBSTITUTION OF MATERIALS OR PRODUCTS. THE ACCEPTANCE OF SUBSTITUTED MATERIALS OR PRODUCTS, EITHER PRIOR TO BID OR THEREAFTER, DOES NOT RELIEVE THE ELECTRICAL CONTRACTOR FROM THE RESPONSIBILITY TO PROVIDE CORRECTIONS, AT THEIR EXPENSE, FOR ALL DISCREPANCIES AND CONFLICTS CREATED BY THE SUBSTITUTION OF MATERIALS OR PRODUCTS.

1.08 SHOP DRAWINGS

A. ELECTRICAL CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL SHOP DRAWINGS OF ALL MATERIALS OR PRODUCTS REQUIRED TO COMPLETE THE PROJECT AND NO MATERIALS OR PRODUCTS SHALL BE DELIVERED TO THE JOB SITE OR INSTALLED UNTIL THE ELECTRICAL CONTRACTOR HAS ELECTRICAL ENGINEER APPROVED SHOP DRAWINGS. SHOP DRAWINGS FOR MATERIALS OR PRODUCTS SHALL BE SUBMITTED AS ONE COMPLETE PACKAGE. ELECTRICAL CONTRACTOR SHALL FURNISH THE NUMBER OF COPIES REQUIRED BY THE GENERAL AND SPECIAL CONDITIONS OF THE CONTRACT, BUT IN NO CASE LESS THAN SIX (6) IDENTICAL COPIES. SHOP DRAWINGS SHALL BE REVIEWED AND STAMPED BY THE ELECTRICAL AND GENERAL CONTRACTORS FOR COMPLIANCE WITH THE SPECIFIED MATERIALS AND PRODUCTS PRIOR TO SUBMISSION TO THE ARCHITECT/ELECTRICAL ENGINEER.

B. SAMPLES, DRAWINGS, SPECIFICATIONS, CUT SHEETS, ETC SUBMITTED FOR REVIEW SHALL BE PROPERLY LABELED AND SHALL INDICATE THE SPECIFIC ITEM FOR WHICH THE ELECTRICAL CONTRACTOR IS PROPOSING TO PROVIDE.

C. "NO EXCEPTION" RENDERED ON SHOP DRAWINGS SHALL NOT BE CONSIDERED AS A GUARANTEE THAT THE MATERIAL OR PRODUCTS COMPLY WITH THE BUILDING CONDITIONS OR MEASUREMENTS. WHERE SHOP DRAWINGS ARE REVIEWED, SAID "NO EXCEPTION" DOES NOT IN ANY WAY RELIEVE THE ELECTRICAL CONTRACTOR FROM THE RESPONSIBILITY OF PROVIDING LABOR, MATERIAL OR PRODUCTS REQUIRED TO PERFORM THE WORK AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS.

D. SHOP DRAWINGS SUBMITTALS ARE REQUIRED ON ELECTRICAL DISTRIBUTION EQUIPMENT, PANELBOARDS, TRANSFORMERS, CONDUIT, CONDUCTORS (WIRE), CIRCUIT BREAKERS, DISCONNECT SWITCHES, WIRING DEVICES, FLOOR BOXES, LIGHT FIXTURES, TIMECLOCKS, CONTACTORS AND SURGE PROTECTION DEVICES (SPD)

PART 2 - PRODUCTS

2.01 SERVICE ENTRANCE

A. SERVICE ENTRANCE SHALL BE UNDERGROUND FROM THE POWER COMPANY TRANSFORMER OR OTHER SERVICE POINT TO THE SERVICE ENTRANCE METER/ EQUIPMENT SHOWN ON THE ELECTRICAL RISER DIAGRAM AND/OR SITE PLAN. VOLTAGE/PHASE OF INCOMING POWER SHALL BE AS INDICATED ON THE ELECTRICAL RISER DIAGRAM AND SHALL BE VERIFIED WITH THE SERVING UTILITY COMPANY PRIOR TO BID.

2.02 PANELBOARDS

A. PROVIDE POWER DISTRIBUTION EQUIPMENT AS INDICATED ON THE ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULES. PANELBOARDS SHALL BE OF DEAD FRONT CONSTRUCTION AND SHALL BE MANUFACTURED BY SQUARE "D", GENERAL ELECTRIC, CUTLER-HAMMER OR SIEMENS.

B. PANELBOARDS SHALL NOT BE LESS THAN 20" WIDE AND SHALL BE FABRICATED FROM CODE GAUGE STEEL WITH A POST FABRICATION APPLIED GRAY ENAMEL FINISH.

C. PANELBOARD AND INTERNAL COMPONENTS SHALL BE CONSTRUCTED AND U.L. LISTED TO WITHSTAND THE SYMMETRICAL SHORT CIRCUIT AMPERES INDICATED ON THE ELECTRICAL RISER DIAGRAM OR PANEL SCHEDULES.

D. WIRE GUTTER SPACE SHALL COMPLY WITH U.L. AND NEC STANDARDS FOR PANELBOARDS.

E. PANELBOARDS SHALL BE SURFACE OR FLUSH MOUNTED AS SHOWN ON PANEL SCHEDULES AND/OR FLOOR PLANS. PANEL SHALL BE EQUIPPED WITH RECESSED HINGES, FLUSH LOCK WITH CATCH AND SPRING LOADED DOOR PULL. ALL LOCKS SHALL BE KEYED A LIKE. TURN OVER ALL KEYS TO OWNER.

F. PROVIDE TYPED CIRCUIT IDENTIFICATION CARD INSIDE EACH PANEL. BASE DESCRIPTION ON LOAD SERVED.

G. PROVIDE LAMINATED, ENGRAVED PLASTIC NAMEPLATE WITH WHITE LETTERS STATING PANELBOARD NAME MOUNTED ON FRONT OF EACH PANEL. MOUNT NAMEPLATE WITH METAL FASTNERS. MINIMUM NAMEPLATE SIZE SHALL BE 3" WIDE BY 1-1/2" HIGH WITH 1/2" HIGH ENGRAVED LETTERS. PROVIDE BLACK NAMEPLATE COLOR FOR NORMAL AND RED NAMEPLATE COLOR FOR EMERGENCY PANELBOARDS OR COLOR AS REQUIRED TO MEET OWNERS STANDARD NAMEPLATE COLORS.

2.03 CIRCUIT BREAKERS:

A. CIRCUIT BREAKERS SHALL BE QUICK-MAKE, QUICK-BREAK, THERMAL MAGNETIC MOLDED CASE OF FRAME SIZE, NUMBER OF POLES AND TRIP RATINGS AS SHOWN ON THE ELECTRICAL RISER DIAGRAM AND/OR PANEL SCHEDULES. MULTI-POLE BREAKERS SHALL HAVE A SINGLE HANDLE TO TRIP ALL POLES AT ONCE. CIRCUIT BREAKERS SHALL BE FROM THE SAME MANUFACTURER AS THE POWER DISTRIBUTION EQUIPMENT. PROVIDE CIRCUIT BREAKERS WITH GROUND FAULT AND ARC FAULT PROTECTION WHERE REQUIRED.

2.04 DISCONNECT SWITCHES

A. DISCONNECT SWITCHES SHALL BE U.L. LISTED AND FROM SAME MANUFACTURER AS POWER DISTRIBUTION EQUIPMENT. SWITCH BLADES SHALL BE FULLY VISIBLE IN THE "OFF" POSITION WITH THE DOOR OPEN. ALL CURRENT CARRYING PARTS SHALL BE PLATED TO RESIST CORROSION.

B. SWITCHES SHALL BE QUICK-MAKE, QUICK-BREAK SUCH THAT, DURING NORMAL OPERATION, THE CONTACTS SHALL NOT BE CAPABLE OF BEING RESTRAINED BY THE OPERATING HANDLE AFTER THE CLOSING OR OPENING ACTION OF THE CONTACTS HAS STARTED. THE HANDLE AND MECHANISM SHALL BE AN INTEGRAL PART OF THE BOX, NOT THE COVER, WITH POSITIVE PADLOCKING PROVISIONS IN THE "OFF" POSITION.

C. PROVIDE HEAVY-DUTY, NEMA-1 ENCLOSURE UNLESS NEMA-3R (RAIN PROOF) IS REQUIRED BY THE SWITCH LOCATION. ENCLOSURES SHALL BE PROVIDED WITH A POST FABRICATION APPLIED GRAY ENAMEL FINISH.

D. FUSIBLE SWITCHES SHALL BE CAPABLE OF FIELD CONVERSION FROM STANDARD CLASS-H FUSE SPACING TO CLASS-J FUSE SPACING WITHOUT AFFECTING THE U.L. LISTING. THE SWITCH MUST ALSO ACCEPT CLASS-R FUSES AND HAVE A FIELD INSTALLABLE U.L. LISTED REJECTION FEATURE TO REJECT ALL FUSES EXCEPT CLASS-R. THE U.L. LISTED SHORT CIRCUIT RATING, WHEN EQUIPPED WITH CLASS-J OR CLASS-R FUSES, SHALL BE 200,000 AMPERES RMS SYMMETRICAL.

E. EACH DISCONNECTING MEANS SHALL BE LEGIBLY MARKED TO INDICATE ITS PURPOSE UNLESS LOCATED AND ARRANGED SO THE PURPOSE IS EVIDENT. IN OTHER THAN ONE- OR TWO-FAMILY DWELLINGS, THE MARKING SHALL INCLUDE IDENTIFICATION OF THE CIRCUIT SOURCE THAT SUPPLIES THE DISCONNECTING MEANS.

F. FOR ONE- AND TWO-FAMILY DWELLING UNITS, ALL SERVICE CONDUCTORS SHALL TERMINATE IN DISCONNECTING MEANS HAVING A SHORT-CIRCUIT CURRENT RATING EQUAL TO OR GREATER THAN THE AVAILABLE FAULT CURRENT. INSTALLED IN A READILY ACCESSIBLE OUTDOOR LOCATION.

2.05 GROUNDING AND BONDING

A. PROVIDE A SINGLE, COMPLETE GROUNDING NETWORK FOR THE ENTIRE ELECTRICAL AND SPECIAL SYSTEMS WHICH COMPLIES WITH NEC REQUIREMENTS.

B. SERVICE NEUTRAL AND EQUIPMENT GROUND SHALL BE CONNECTED AT ONE POINT INSIDE THE MAIN DISTRIBUTION PANEL WITH ONE CONTINUOUS CONDUCTOR FROM THIS LOCATION TO THREE 10 FOOT LONG DRIVEN GROUND RODS LOCATED IN A TRIANGULAR PATTERN, TO BUILDING STEEL AND TO METAL WATER PIPE.

C. PROVIDE BONDING CONNECTION WITH GROUND BUSHING TO CONDUIT FROM DISTRIBUTION PANEL TO THE BREAKERS AND PANELS SERVED.

D. CONNECTIONS TO GROUND RODS SHALL BE MADE WITH EXOTHERMIC WELDS. PROVIDE TEST WELL OVER EACH GROUND ROD.

2.06 CONDUIT FOR POWER DISTRIBUTION WIRING

A. WIRING FOR POWER DISTRIBUTION SHALL BE INSTALLED IN RIGID METALLIC (GALVANIZED STEEL) CONDUIT (RMC), INTERMEDIATE METAL CONDUIT (IMC), ELECTRICAL METALLIC TUBING (EMT), FLEXIBLE METAL CONDUIT OR SCHEDULE 40/80 PVC CONDUIT. PROVIDE THE CONDUIT TYPE INDICATED IN THIS SPECIFICATION WHERE CONDUIT TYPE IS NOT NOTED ON THE DRAWINGS.

B. RIGID GALVANIZED STEEL (RGS) CONDUIT WITH THREADED FITTINGS SHALL BE PROVIDED ABOVE GROUND AT EXPOSED INTERIOR AND EXTERIOR LOCATIONS WHERE CONDUIT MAY BE SUBJECTED TO PHYSICAL DAMAGE FROM VEHICLES, MAINTENANCE EQUIPMENT, ETC. PROVIDE LARGE RADIUS SWEEP ELBOWS FOR RGS CONDUIT.

C. IMC CONDUIT WITH THREADED FITTINGS SHALL BE PROVIDED IN ABOVE GROUND, EXPOSED INTERIOR AND EXTERIOR LOCATIONS WHERE CONDUIT WILL NOT BE SUBJECTED TO PHYSICAL DAMAGE, BUT WILL BE EXPOSED TO RAIN WATER, HAZARDOUS CONDITIONS, ETC. THREADLESS FITTINGS FOR IMC IS NOT ACCEPTABLE.

D. EMT CONDUIT WITH SET SCREW FITTINGS SHALL BE PROVIDED IN ABOVE GROUND INTERIOR LOCATIONS WHERE CONDUIT WILL NOT BE SUBJECTED TO PHYSICAL DAMAGE AND WILL REMAIN COMPLETELY DRY DURING ALL WEATHER CONDITIONS.

E. EMT CONDUIT SHALL NOT BE USED IN LOCATIONS WHERE CONDUIT COULD BE EXPOSED TO DIRECT/INDIRECT RAIN/WATER/LIQUIDS, WIND DRIVEN RAIN, HOSE DOWN AREAS, OPEN AIR AREAS WITHOUT AIR CONDITIONING (UNLESS CONDUIT WILL REMAIN COMPLETELY DRY DURING ALL WEATHER CONDITIONS) AND AREAS WHERE RAIN/WATER/LIQUIDS MIGHT DRIP OR RUN INTO CONDUIT, BACKBOXES OR DEVICES.

F. SCHEDULE 80 PVC CONDUIT SHALL BE USED FOR UNDERGROUND SERVICE ENTRANCE FEEDERS AND ALL CONDUIT BELOW ROADWAYS U.N.O. ON THE RISER DIAGRAMS AND/OR FLOOR PLANS. PROVIDE LARGE RADIUS RIGID GALVANIZED STEEL ELBOWS FOR SCHEDULE 80 PVC CONDUIT. COAT RGS ELBOWS WITH BLACK MASTIC.

G. SCHEDULE 40 PVC CONDUIT SHALL BE USED FOR ALL UNDERGROUND FEEDERS AND WIRING EXCEPT FOR SERVICE ENTRANCE FEEDERS AND UNDER ROADWAYS. PROVIDE LARGE RADIUS RIGID GALVANIZED STEEL ELBOWS FOR SCHEDULE 40 PVC CONDUIT WHERE OVERALL CONDUIT RUN IS GREATER THAN 100 FEET. COAT RGS ELBOWS WITH BLACK MASTIC.

H. PVC CONDUIT SHALL NOT BE USED MORE THAN SIX INCHES ABOVE FINISHED GRADE IN EITHER INTERIOR OR EXTERIOR LOCATIONS. PVC CONDUIT SHALL TRANSITION TO METAL CONDUIT NO MORE THAN SIX INCHES ABOVE GRADE.

I. ALL PVC CONNECTIONS SHALL BE WATERTIGHT.

J. FLEXIBLE METAL CONDUIT SHALL BE USED TO CONNECT LIGHTING FIXTURES AND EQUIPMENT SUBJECT TO VIBRATION, INCLUDING A/C EQUIPMENT, MOTORS, TRANSFORMERS, ETC. PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT AND FITTINGS FOR EXTERIOR APPLICATIONS.

K. CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, OR CEILINGS IN FINISHED AREAS. CONDUIT SHALL NOT BE EXPOSED IN FINISHED AREAS EXCEPT WHEN ABSOLUTELY NECESSARY. CONDUIT SHALL BE STRAIGHT AND PARALLEL TO BUILDING LINES.

L. DURING CONSTRUCTION CONDUIT SHALL BE PROTECTED AGAINST DAMAGE AND ENTRANCE OF WATER, DIRT OR FOREIGN MATERIAL WITH WATERTIGHT CAPS. FIRE RATED ASSEMBLIES SHALL BE PROVIDED WHERE CONDUIT PASSES THROUGH FIRE RATED CONSTRUCTION. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FIRE RATED CONSTRUCTION. REFER TO THE FIRE STOP PENETRATION DETAILS ON THE ELECTRICAL DRAWINGS.

M. INSULATING BUSHINGS WITH DOUBLE LOCK-NUTS SHALL BE USED WHEREVER A NEW CONDUIT 1-1/4" DIA OR LARGER ENTERS A BOX, PANEL, DISCONNECT OR ELECTRICAL EQUIPMENT.

N. CONDUIT SIZES SHOWN ON THE DRAWINGS AND SCHEDULES ARE THE MINIMUM SIZES REQUIRED. LARGER SIZE CONDUIT TO FACILITATE WIRE PULLS, ETC, IS PERMITTED.

2.07 CONDUCTORS

A. PROVIDE 75 DEGREE CELSIUS (167 DEGREE FAHRENHEIT) TYPE THHW, THW, THWN, OR XHHW INSULATED COPPER CONDUCTORS RATED AT 600V FOR POWER DISTRIBUTION WIRING. CONDUIT WIRE FILL SHOWN ON THE DRAWINGS AND FEEDER SCHEDULES ARE BASED ON TYPE THW WIRE UNLESS NOTED OTHERWISE.

B. CONDUCTORS UP TO AND INCLUDING NO. 10 AWG SHALL BE SOLID AND CONDUCTORS NO. 8 AWG AND LARGER SHALL BE STRANDED. MINIMUM CONDUCTOR SIZE SHALL BE NO.12 AWG. CONDUCTORS SHALL BE CONTINUOUS BETWEEN EQUIPMENT AND DEVICES. SPLICES ARE TO BE MADE ONLY IN ACCESSIBLE JUNCTION OR OUTLET BOXES AND SHOULD BE KEPT TO A MINIMUM. SPLICES ON NO.12 AND NO.10 WIRE SHALL BE MADE WITH PRESSURE CONNECTORS CAPABLE OF CARRYING FULL WIRE CAPACITY. SPLICES ON NO.8 WIRE AND LARGER SHALL BE MADE WITH SOLDERLESS LUGS WRAPPED WITH BOTH RUBBER AND PLASTIC ELECTRICAL TAPE. CONNECTIONS TO FIXED EQUIPMENT TERMINALS ARE TO BE MADE WITH SOLDERLESS LUGS. TIGHTENING TORQUE VALUES FOR TERMINAL CONNECTIONS SHALL BE AS INDICATED ON EQUIPMENT OR IN INSTALLATION INSTRUCTIONS PROVIDED BY THE MANUFACTURER, AN APPROVED MEANS SHALL BE USED TO ACHIEVE THE INDICATED TORQUE VALUE.

C. ALL NEW CONDUIT USED FOR POWER DISTRIBUTION SHALL CONTAIN AN EQUIPMENT GROUNDING CONDUCTOR. CONDUIT RACEWAY SHALL NOT BE USED IN PLACE OF A GROUNDING CONDUCTOR.

D. MC TYPE CABLE MAY BE UTILIZED FOR FINAL EQUIPMENT CONNECTIONS IF ALLOWED BY THE AUTHORITY HAVING JURISDICTION. MC TYPE CABLE SHALL NOT BE USED FOR HOMERUNS TO PANELS.

E. ROMEX (NM) CABLE MAY BE UTILIZED IN ONE- AND TWO-FAMILIY DWELLINGS AND MULTI-FAMILY DWELLINGS PERMITTED TO BE OF TYPES III, IV, AND V CONSTRUCTION, PER NEC 334.10.

2.08 WIRING DEVICES

A. THE EXTENT OF WIRING DEVICE WORK IS INDICATED ON THE DRAWINGS. WIRING DEVICES ARE DEFINED AS SINGLE DISCRETE UNITS OF ELECTRICAL DISTRIBUTION SYSTEMS THAT ARE INTENDED TO CARRY BUT NOT UTILIZE ELECTRIC ENERGY. TYPES OF WIRING DEVICES IN THIS SECTION INCLUDE:

- RECEPTACLES
- GROUND FAULT CIRCUIT INTERRUPTERS
- ARC FAULT CIRCUIT INTERRUPTERS
- LIGHT SWITCHES

B. PROVIDE WHITE COLORED WIRING DEVICES AND MATCHING THERMOPLASTIC COVERPLATES UNLESS NOTED OTHERWISE. FINAL COLOR SELECTION SHALL BE COORDINATED WITH OWNER/ARCHITECT PRIOR TO BID.

C. QUALITY ASSURANCE

1. NEC COMPLIANCE: COMPLY WITH NEC AS APPLICABLE TO INSTALLATION AND WIRING OF ELECTRICAL WIRING DEVICES.
2. UL COMPLIANCE: COMPLY WITH APPLICABLE REQUIREMENTS OF U.L. 20, 486A, 498 AND 943 PERTAINING TO INSTALLATION OF WIRING DEVICES. PROVIDE WIRING DEVICES WHICH ARE U.L. LISTED AND LABELED.
3. IEEE COMPLIANCE: COMPLY WITH APPLICABLE REQUIREMENTS OF IEEE STANDARD 241, "RECOMMENDED PRACTICE FOR ELECTRIC POWER SYSTEMS IN COMMERCIAL BUILDINGS", PERTAINING TO ELECTRICAL WIRING SYSTEMS.
4. NEMA COMPLIANCE: COMPLY WITH APPLICABLE PORTIONS OF NEMA STANDARDS PUBLICATION NUMBER WD-1, "GENERAL PURPOSE WIRING DEVICES", WD-2, "SEMICONDUCTOR DIMMERS FOR INCANDESCENT LAMPS", AND WD-5, "SPECIFIC PURPOSE WIRING DEVICES".

D. RECEPTACLES

1. SIMPLEX: PROVIDE SPECIFICATION GRADE 20-AMPERE, 125 VOLT, HEAVY-DUTY, 2-POLE, 3-WIRE, RECEPTACLE WITH GREEN HEXAGONAL EQUIPMENT GROUND SCREW AND METAL PLASTER EARS DESIGNED FOR SIDE AND BACK WIRING WITH SPRING LOADED, SCREW ACTIVATED PRESSURE PLATE IN NEMA 5-20R CONFIGURATION UNLESS NOTED OTHERWISE. COORDINATE ALL "SPECIAL" RECEPTACLES WITH THE EQUIPMENT SERVED PRIOR TO ROUGH-IN. PROVIDE RECEPTACLE RATING AND CONFIGURATION TO MATCH EQUIPMENT SERVED.
2. DUPLEX: PROVIDE SPECIFICATION GRADE 20-AMPERE, 125 VOLT, HEAVY-DUTY, 2-POLE, 3-WIRE, RECEPTACLE WITH GREEN HEXAGONAL EQUIPMENT GROUND SCREW AND METAL PLASTER EARS DESIGNED FOR SIDE AND BACK WIRING WITH SPRING LOADED, SCREW ACTIVATED PRESSURE PLATE IN NEMA 5-20R CONFIGURATION.

E. GROUND-FAULT CIRCUIT INTERRUPTERS

1. PROVIDE SPECIFICATION GRADE "FEED-THRU" TYPE GROUND-FAULT CIRCUIT INTERRUPTERS, WITH HEAVY-DUTY DUPLEX RECEPTACLES, CAPABLE OF PROTECTING CONNECTED DOWNSTREAM RECEPTACLES ON SINGLE CIRCUIT, AND OF BEING INSTALLED IN A 2-3/4" DEEP OUTLET BOX WITHOUT ADAPTER, GROUNDING TYPE U.L. RATED CLASS A, GROUP 1, RATED 20-AMPERES, 120-VOLTS, 60 HZ, WITH SOLID-STATE GROUND-FAULT SENSING AND SIGNALING, WITH 5 MILLIAMPERES GROUND-FAULT TRIP LEVEL, EQUIP WITH NEMA 5-20R CONFIGURATION.

F. MANUAL LIGHT SWITCHES

1. PROVIDE DECORA TYPE IN FINISHED SPACES AND DWELLING UNITS. COORDINATE WITH ARCHITECT/OWNER.
2. SINGLE AND TWO POLE: PROVIDE HARD USE SPECIFICATION GRADE RECESS MOUNTED SINGLE AND TWO-POLE QUIET TOGGLE SWITCHES, 20-AMPERE, 120/277 VOLTS AC. PROVIDE WITH MOUNTING YOKE INSULATED FROM MECHANISM, PLASTER EARS, SWITCH HANDLE, AND SIDE-WIRED SCREW TERMINALS.
3. THREE AND FOUR WAY: PROVIDE HARD USE SPECIFICATION GRADE RECESS MOUNTED 3 AND 4-WAY AC QUIET SWITCHES, 20-AMPERES, 120/277 VOLTS PROVIDE WITH MOUNTING YOKE INSULATED FROM MECHANISM, PLASTER EARS, SWITCH HANDLE, SIDE-WIRED SCREW TERMINALS, WITH BREAK-OFF TAB FEATURES, WHICH ALLOWS WIRING WITH SEPARATE OR COMMON FEED.

2.09 LIGHTING FIXTURES

A. ELECTRICAL CONTRACTOR SHALL PROVIDE, WIRE AND LAMP ALL LIGHTING FIXTURES SHOWN ON SITE PLAN, FLOOR PLANS AND LIGHTING FIXTURE SCHEDULE. AT SUBSTANTIAL COMPLETION, ELECTRICAL CONTRACTOR SHALL CLEAN DUST, DEBRIS, FINGERPRINTS, ETC FROM ALL FIXTURE LENSES, LOUVERS, AND REFLECTORS AND SHALL REPLACE ALL LAMPS, BALLASTS, ETC THAT ARE NOT WORKING.

B. ELECTRICAL CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS (SECTIONS, ELEVATIONS, DETAILS, ETC.) FOR LIGHTING FIXTURES WHICH MAY BE SHOWN AND SHALL NOTIFY THE ARCHITECT/ ENGINEER PRIOR TO BID IF FIXTURES APPEAR ON THE ARCHITECTURAL DRAWINGS THAT DO NOT APPEAR ON THE ELECTRICAL DRAWINGS.

C. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL PATH OF EGRESS LIGHTING AND EXIT SIGNAGE AS SHOWN ON THE PLANS AND AS REQUIRED BY APPLICABLE LIFE SAFETY CODE(S).

2.10 LIGHTING CONTROLS

A. INTERIOR. PROVIDE A COMPLETE, AUTOMATIC LIGHTING CONTROLS SYSTEM TO SHUT OFF INTERIOR LIGHTING IN COMPLIANCE WITH FBC ENERGY SECTION C405. THE SYSTEM SHALL FUNCTION ON EITHER OF THE FOLLOWING:

1. OCCUPANCY SENSOR(S) THAT SHALL TURN LIGHTING OFF WITHIN 20 MINUTES OF ALL OCCUPANTS VACATING THE SPACE.
2. A SCHEDULED BASIS THAT TURNS LIGHTING OFF AT A PROGRAMMED TIME OF DAY. PROVIDE INDICATION 5 MINUTES PRIOR TO TURNING LIGHTING OFF TO ALLOW OCCUPANTS TO MANUALLY OVERRIDE SCHEDULE.

B. EXTERIOR. PROVIDE TIMECLOCK(S) FOR EXTERIOR LIGHTING CONTROL. TIME CLOCKS SHALL BE 7-DAY, 24-HOUR MECHANICAL OR ELECTRONIC WITH CARRYOVER PROVISIONS FOR A MINIMUM OF 16 HOURS. PROVIDE PHOTOCELL FOR AUTOMATIC FIXTURE SWITCHING WHERE INDICATED ON SITE AND FLOOR PLANS. PHOTOCELL SHALL BE RATED FOR REQUIRED LOAD AND VOLTAGE WITH BUILT-IN DELAY FOR TRANSIENT LIGHT FLASHES AND LIGHT LEVEL ADJUSTMENT.

C. DOCUMENTS CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET THE DOCUMENTED PERFORMANCE CRITERIA OF FBC-ENERGY SECTION C405 SHALL BE PROVIDED TO THE BUILDING OWNER WITHIN 90 DAYS FROM THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

2.11 EQUIPMENT FURNISHED BY OTHERS

A. ELECTRICAL CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE TO EQUIPMENT PROVIDED BY OTHERS INCLUDING, BUT NOT LIMITED TO, CIRCUIT BREAKERS, CONDUIT, WIRE, DISCONNECT SWITCHES, ETC AS REQUIRED BY OTHERS.

2.12 MOTOR CONTROLLERS

A. PROVIDE FULL-VOLTAGE, NON-REVERSING, ACROSS-THE-LINE, MAGNETIC MOTOR CONTROLLER(S). COORDINATE THE FEATURES OF EACH MOTOR CONTROLLER WITH THE RATINGS AND CHARACTERISTICS OF THE SUPPLY CIRCUIT, THE MOTOR, THE REQUIRED CONTROL SEQUENCE, THE DUTY CYCLE OF THE MOTOR, DRIVE, AND LOAD, AND THE PILOT DEVICE, AND CONTROL CIRCUITING AFFECTING CONTROLLER FUNCTIONS. PROVIDE CONTROLLERS THAT ARE HORSEPOWER RATED TO SUIT THE MOTOR CONTROLLED.

B. CONTACTS SHALL OPEN EACH UNGROUNDED CONNECTION TO THE MOTOR.

C. OVERLOAD RELAYS: AMBIENT-COMPENSATED TYPE WITH INVERSE-TIME-CURRENT CHARACTERISTIC. PROVIDE WITH HEATERS OR SENSORS IN EACH PHASE MATCHED TO NAMEPLATE FULL-LOAD CURRENT OF THE SPECIFIC MOTOR TO WHICH CONNECTED WITH APPROPRIATE ADJUSTMENT FOR DUTY CYCLE.

D. ENCLOSURES: FOR INDIVIDUALLY MOUNTED MOTOR CONTROLLERS AND CONTROL DEVICES, COMPLY WITH NEMA STANDARD 250, "ENCLOSURES FOR ELECTRICAL EQUIPMENT (1000 VOLTS MAXIMUM)." PROVIDE ENCLOSURES SUITABLE FOR THE ENVIRONMENTAL CONDITIONS AT THE CONTROLLER LOCATION.

E. PROVIDE CONTROL POWER TRANSFORMER INTEGRAL WITH CONTROLLER WHERE NO OTHER SUPPLY OF CONTROL POWER TO CONTROLLER IS INDICATED. PROVIDE CONTROL POWER TRANSFORMER WITH ADEQUATE CAPACITY TO OPERATE CONNECTED PILOT, INDICATING AND CONTROL DEVICES.

F. COMBINATION CONTROLLER: SWITCH TYPE; FUSED, QUICK-MAKE, QUICK-BREAK SWITCH, FACTORY ASSEMBLED WITH CONTROLLER AND ARRANGED TO DISCONNECT IT. PROVIDE REJECTION-TYPE FUSE CLIPS AND FUSES RATED PER MANUFACTURERS RECOMMENDATION. INTERLOCK SWITCH WITH UNIT COVER OR DOOR.

G. AUXILIARY CONTROL DEVICES SHALL BE FACTORY INSTALLED IN CONTROLLER ENCLOSURE.

H. AUTOMATIC SELECTOR SWITCHES: INSTALL IN COVERS OF CONTROLLERS OF MOTORS STARTED AND STOPPED BY AUTOMATIC CONTROLS OR INTERLOCKS WITH OTHER EQUIPMENT. MAKE CONTROL CONNECTIONS SO ONLY THE MANUAL AND AUTOMATIC CONTROL DEVICES THAT HAVE NO SAFETY FUNCTIONS WILL BE BYPASSED WHEN THE SWITCH IS IN THE HAND POSITION. CONNECT MOTOR CONTROL CIRCUIT IN BOTH HAND AND AUTOMATIC POSITIONS FOR SAFETY TYPE CONTROL DEVICES SUCH AS "LOW" AND "HIGH" PRESSURE CUTOUTS, HIGH TEMPERATURE CUTOUTS, AND MOTOR OVERLOAD PROTECTORS. MAKE CONTROL CIRCUIT CONNECTIONS TO A HAND-OFF-AUTOMATIC SWITCH OR TO MORE THAN ONE AUTOMATIC CONTROL DEVICE IN ACCORDANCE WITH MANUFACTURER PROVIDED WIRING DIAGRAM.

2.13 RACEWAY FOR COMMUNICATIONS WIRING

A. REFER TO THE COMMUNICATIONS RISER DIAGRAM AND ELECTRICAL SYMBOL LEGEND FOR ADDITIONAL REQUIREMENTS.

B. PROVIDE CONDUIT, BACKBOX, BLANK COVERPLATE AND PULL STRING FOR EACH OUTLET INDICATED ON CONSTRUCTION DOCUMENTS. PROVIDE BUSHING ON ENDS OF CONDUIT. DEVICES AND WIRING PROVIDED BY OTHERS.

C. PROVIDE EACH CONDUIT WITH PULL STRING STUBBED FROM BACKBOX INTO ACCESSIBLE CEILING SPACE (I.E., LAY-IN CEILING TILE) ABOVE EACH OUTLET.

D. PROVIDE CONDUIT WITH PULL STRING ROUTED FROM EACH BACKBOX TO CLOSEST COMMUNICATIONS BACKBOARD (OR TERMINAL CABINET) ON THE FLOOR WHERE OUTLET IS LOCATED U.N.O.

E. PROVIDE CONDUIT, (1) 2" MINIMUM, ABOVE INACCESSIBLE CEILINGS AND COVERED BREEZEWAYS. EXTEND CONDUIT INTO ACCESSIBLE CEILING SPACE AT EACH END.

F. ROUTE CONDUIT THROUGH RATED WALLS AND FLOORS USING U.L. APPROVED FIRE RATED PENETRATION MATERIALS.

2.14 DWELLING UNITS

A. GFCI: PROVIDE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION IN A READILY ACCESSIBLE LOCATION FOR ALL 120-VOLT THROUGH 250-VOLT RECEPTACLES AND SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND INSTALLED IN THE FOLLOWING LOCATIONS:

1. BATHROOMS
2. GARAGES AND ACCESSORY BUILDINGS
3. OUTDOORS
4. CRAWL SPACES - AT OR BELOW GRADE LEVEL
5. BASEMENTS
6. KITCHENS - WHERE RECEPTACLES SERVE COUNTERTOP SURFACES
7. SINKS - WITHIN 6 FEET FROM TOP INSIDE EDGE OF BOWL OR SINK
8. BOATHOUSES
9. BATHTUBS OR SHOWER STALLS - WITHIN 6 FEET OF THE OUTSIDE EDGE OF THE BATHTUB OR SHOWER STALL
10. LAUNDRY AREAS
11. INDOOR DAMP AND WET LOCATIONS

B. AFCI: PROVIDE ARC-FAULT CIRCUIT-INTERRUPTER PROTECTION PER NEC 210.12 IN A READILY ACCESSIBLE LOCATION FOR ALL 120-VOLT, SINGLE-PHASE, 15- AND 20-AMP BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN DWELLING UNITS SHALL BE PROTECTED BY ANY OF THE MEANS DESCRIBED IN NEC 210.12(A)(1) THROUGH (6).

C. C. RESIDENTIAL GRADE WIRING DEVICES AND LIGHT FIXTURES SHALL BE ALLOWED IN SINGLE-FAMILY RESIDENCES.

2.15 OTHER THAN DWELLING UNITS

A. GFCI: PROVIDE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION IN A READILY ACCESSIBLE LOCATION FOR ALL 120-VOLT THROUGH 250-VOLT RECEPTACLES AND SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 50 AMPERE OR LESS, AND ALL RECEPTACLE SUPPLIED BY THREE-PHASE BRANCH CIRCUITS RATED 150VOLTS OR LESS TO GROUND, 100 AMPERES OR LESS, INSTALLED IN THE FOLLOWING LOCATIONS:

1. BATHROOMS
2. KITCHENS OR AREAS WITH A SINK AND PERMANENT PROVISION FOR EITHER FOOD PREPARATION OR COOKING
3. ROOFTOPS - EXCEPTION. SHALL NOT BE REQUIRED TO BE READILY ACCESSIBLE
4. OUTDOORS
5. SINKS - WITHIN 6 FEET FROM TOP INSIDE EDGE OF BOWL OR SINK
6. INDOOR DAMP AND WET LOCATIONS
7. LOCKER ROOM WITH ASSOCIATED SHOWERING FACILITIES
8. GARAGE, ACCESSORY BUILDINGS, SERVICE BAYS AND SIMILAR AREAS OTHER THAN VEHICLE EXHIBITION HALLS AND SHOWROOMS
9. CRAWLS SPACES - AT OR BELOW GRADE LEVEL
10. UNFINISHED AREAS OF BASEMENTS
11. LAUNDRY AREAS
12. BATHTUBS AND SHOWER STALLS - WITHIN 6 FEET OF THE OUTSIDE EDGE OF BATHTUB OR SHOWER STALLS

2.16 SPECIFIC APPLIANCES

A. GFCI: PROVIDE CLASS A GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION EITHER WITHIN THE BRANCH CIRCUIT OVERCURRENT DEVICE OR OUTLET WITHIN SUPPLYING CIRCUIT FOR THE APPLIANCES RATED 150 VOLTS OR LESS TO GROUND AND 60 AMPERES OR LESS, SINGLE PHASE- OR 3-PHASE

1. AUTOMOTIVE VACUUM MACHINES
2. DRINKING WATER COOLERS AND BOTTLE FILL STATIONS
3. CORD-AND-PLUG CONNECTED HIGH-PRESSURE SPRAY WASHING MACHINES
4. TIRE INFLATION MACHINES
5. VENDING MACHINES
6. SUMP PUMPS
7. DISHWASHERS

2.17 SITE LIGHTING

A. PROVIDE REVISED PHOTOMETRICS FOR ANY SUBSTITUTE FIXTURES. PHOTOMETRICS SHALL MEET ALL APPLICABLE CODES.

B. PROVIDE POLES WITH SUFFICIENT WIND RATING FOR THE FIXTURE AT THE DESIGN WIND SPEED OF THE LOCATION AND RISK CATEGORY.

PART 3 - EXECUTION

3.01 COOPERATION WITH OTHER TRADES

A. ELECTRICAL CONTRACTOR SHALL GIVE FULL COOPERATION TO OTHER TRADES AND SHALL FURNISH IN WRITING TO THE ARCHITECT/ELECTRICAL ENGINEER ANY INFORMATION NECESSARY TO PERMIT THE WORK OF OTHER TRADES TO BE INSTALLED SATISFACTORILY AND WITH THE LEAST POSSIBLE INTERFERENCE OR DELAY.

B. WHERE ELECTRICAL WORK WILL BE INSTALLED IN CLOSE PROXIMITY TO, OR MAY INTERFERE WITH, WORK OF OTHER TRADES THE CONTRACTORS SHALL ASSIST EACH OTHER IN WORKING OUT A SATISFACTORY SPACE FOR EACH CONTRACTORS WORK. IF DIRECTED BY THE ARCHITECT/ELECTRICAL ENGINEER, THE ELECTRICAL CONTRACTOR SHALL PREPARE COMPOSITE WORKING DRAWINGS AND SECTIONS AT SUITABLE SCALE, NOT LESS THAN 1/4" = 1'-0", CLEARLY SHOWING HOW WORK IS TO BE INSTALLED IN RELATION TO WORK OF OTHER TRADES. IF THE ELECTRICAL CONTRACTOR INSTALLS HIS WORK BEFORE COORDINATING WITH OTHER TRADES, OR CAUSES ANY INTERFERENCE WITH WORK OF OTHER TRADES, THE ELECTRICAL CONTRACTOR SHALL MAKE THE NECESSARY CHANGES IN THE ELECTRICAL WORK TO CORRECT THE CONDITIONS WITHOUT EXTRA CHARGE.

C. ELECTRICAL CONTRACTOR SHALL FURNISH TO OTHER TRADES, AS REQUIRED, ALL NECESSARY TEMPLATES, PATTERNS, AND ASSEMBLY DETAILS FOR THE PROPER INSTALLATION OF WORK AND FOR THE PURPOSE OF COORDINATING ADJACENT WORK.

3.02 SCAFFOLDING, RIGGING, HOISTING

A. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SCAFFOLDING, RIGGING AND HOISTING NECESSARY FOR ERECTION AND DELIVERY INTO THE PREMISES OF ALL ELECTRICAL EQUIPMENT. REMOVE SAME FROM PREMISES WHEN NO LONGER REQUIRED.

3.03 EXCAVATING AND BACKFILLING

A. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL TRENCH AND PIT EXCAVATION AND BACKFILLING REQUIRED FOR WORK UNDER THIS SECTION OF THE SPECIFICATIONS, BOTH INSIDE AND OUTSIDE OF THE BUILDING, INCLUDING REPAIRING OF FINISHED SURFACES, ALL REQUIRED SHORING, BRACING, PUMPING, AND ALL PROTECTION FOR SAFETY OF PERSONS AND PROPERTY. LOCAL OR STATE SAFETY CODES SHALL BE FOLLOWED.

B. IN ADDITION, THE ELECTRICAL CONTRACTOR SHALL CHECK THE ELEVATIONS OF THE UTILITIES ENTERING AND LEAVING THE BUILDING. IF SUCH ELEVATIONS REQUIRE EXCAVATIONS LOWER THAN THE FOOTING LEVELS, THE ARCHITECT/ELECTRICAL ENGINEER SHALL BE NOTIFIED OF SUCH CONDITIONS BEFORE EXCAVATIONS COMMENCE. ELECTRICAL CONTRACTOR SHALL MAKE EXCAVATIONS AT THE MINIMUM REQUIRED DEPTHS IN ORDER NOT TO UNDERCUT THE FOOTINGS. CONFORM TO THE REQUIREMENTS OF THE STATE OF FLORIDA "TRENCH SAFETY ACT". FILLING, BACKFILLING AND COMPACTION SHALL BE AS SPECIFIED IN OTHER AREAS OF THE CONTRACT DOCUMENTS AND SPECIFICATIONS.

3.04 MATERIAL AND WORKMANSHIP

A. ALL MATERIALS AND APPARATUS REQUIRED FOR ELECTRICAL WORK, EXCEPT AS SPECIFICALLY NOTED OTHERWISE, SHALL BE NEW, OF FIRST CLASS QUALITY, AND SHALL BE FURNISHED, DELIVERED, ERECTED, CONNECTED AND FINISHED IN EVERY DETAIL AND SHALL BE SO SELECTED AND ARRANGED AS TO FIT PROPERLY INTO THE BUILDING SPACES. WHERE NO SPECIFIC KIND OR QUALITY OF MATERIAL IS GIVEN, A FIRST CLASS STANDARD ARTICLE, AS APPROVED BY THE ELECTRICAL ENGINEER, SHALL BE PROVIDED.

B. ELECTRICAL CONTRACTOR SHALL PROCURE THE SERVICES OF AN EXPERIENCED SUPERINTENDENT, WHO SHALL BE CONSTANTLY IN CHARGE OF THE INSTALLATION OF THE WORK, TOGETHER WITH ALL SKILLED WORK PERSONNEL, FITTERS, METAL WORKERS, WELDERS, HELPERS, AND LABOR REQUIRED TO UNLOAD, TRANSFER, ERECT, CONNECT, ADJUST, START, OPERATE AND TEST EACH SYSTEM.

C. ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER. THIS INCLUDES THE PERFORMANCE OF ALL TESTS RECOMMENDED BY THE MANUFACTURER.

3.05 CUTTING AND PATCHING

A. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING NECESSARY TO INSTALL ELECTRICAL WORK. PATCHING SHALL MATCH ADJACENT SURFACES AND SHALL MEET THE APPROVAL OF THE ARCHITECT AND OWNER.

B. NO STRUCTURAL MEMBERS SHALL BE CUT OR MODIFIED IN ANY WAY WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER. ANY MODIFICATION SHALL BE DONE IN A MANNER APPROVED BY THE STRUCTURAL ENGINEER.

3.06 SLEEVES AND PLATES

A. ELECTRICAL CONTRACTOR SHALL PROVIDE AND LOCATE ALL SLEEVES REQUIRED FOR ELECTRICAL WORK BEFORE THE FLOORS, WALLS AND CEILINGS ARE CONSTRUCTED, OR SHALL BE RESPONSIBLE FOR THE COST OF CUTTING AND PATCHING WHERE SLEEVES WERE NOT INSTALLED, OR WHERE INCORRECTLY LOCATED. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DRILLING REQUIRED FOR THE INSTALLATION OF HIS HANGERS. SLEEVES SHALL BE PROVIDED FOR ALL CONDUIT PASSING THROUGH CONCRETE FLOOR SLABS ABOVE GRADE AND CONCRETE, MASONRY, TILE AND GYPSUM WALL CONSTRUCTION.

B. CONDUIT THROUGH FLOORS AND WALLS SHALL UTILIZE A U.L. APPROVED FIRE RATED PENETRATION SYSTEM. WHERE SLEEVES ARE PLACED IN EXTERIOR WALLS BELOW GRADE, THE SPACE BETWEEN THE CONDUIT AND THE SLEEVES SHALL BE SEALED WATERTIGHT.

C. WHERE CONDUIT MOTION DUE TO EXPANSION AND CONTRACTION WILL OCCUR, PROVIDE SLEEVES OF SUFFICIENT DIAMETER TO PERMIT FREE MOVEMENT OF THE CONDUIT. CHECK FLOOR AND WALL CONSTRUCTION FINISHES TO DETERMINE PROPER LENGTH OF SLEEVES FOR VARIOUS LOCATIONS. PROVIDE ACTUAL LENGTHS TO SUIT THE FOLLOWING:

1. TERMINATE SLEEVES FLUSH WITH WALLS, PARTITIONS AND CEILING.
2. IN AREAS WHERE CONDUIT IS CONCEALED, AS IN CHASES, TERMINATE SLEEVES 1" ABOVE FLOOR.
3. IN AREAS WHERE CONDUIT IS EXPOSED, EXTEND SLEEVES 2" ABOVE FINISHED FLOOR.
4. SLEEVES SHALL BE CONSTRUCTED OF SCHEDULE 40 STEEL PIPE.

D. FASTEN SLEEVES SECURELY IN FLOORS AND WALLS SO THEY WILL NOT BECOME DISPLACED WHEN CONCRETE IS POURED OR WHEN OTHER CONSTRUCTION IS BUILT AROUND THEM. TAKE PRECAUTIONS TO PREVENT CONCRETE, PLASTER OR OTHER MATERIALS FROM BEING FORCED INTO THE SPACE BETWEEN PIPE AND SLEEVE DURING CONSTRUCTION.

3.07 PENETRATIONS

A. ALL PENETRATIONS THROUGH FIRE RATED FLOORS, WALLS AND CEILINGS SHALL BE PROVIDED WITH A U.L. APPROVED FIRE STOP METHOD IN ACCORDANCE WITH THE FLORIDA FIRE PREVENTION CODE 8TH EDITION (EFFECTIVE 12/31/2023).

3.08 TESTING AND PROJECT CLOSE-OUT

A. TESTING: FINAL TESTS SHALL BE MADE AFTER WORK HAS BEEN COMPLETED. PROVIDE COPY OF FINAL TEST TO GENERAL CONTRACTOR/ ARCHITECT/ ELECTRICAL ENGINEER. WHEN REQUESTED, THE ELECTRICAL CONTRACTOR SHALL CONDUCT REQUIRED OPERATING TEST(S) IN THE PRESENCE OF THE ARCHITECT/ELECTRICAL ENGINEER AND OTHER AUTHORIZED PERSONS.

B. TESTS SHALL DEMONSTRATE THAT THE SYSTEM FUNCTIONS PROPERLY THROUGHOUT, THAT IT IS FREE FROM GROUNDS AND SHORTS, AND THAT ALL REQUIREMENTS HEREIN HAVE BEEN COMPLIED WITH. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY INSTRUMENTS AND PERSONNEL FOR TESTS AND THE OWNER WILL SUPPLY THE CURRENT. TESTS SHALL BE AS PRESCRIBED BY THE AUTHORITY HAVING JURISDICTION AND ENGINEER AND SHALL INCLUDE MEGGER TESTS IN ACCORDANCE WITH N.E.C. RECOMMENDATIONS.

C. CONTROLS FOR AUTOMATIC LIGHTING SYSTEMS SHALL COMPLY WITH FBC-ENERGY C408.3. PRIOR TO PASSING FINAL INSPECTION, THE ELECTRICAL CONTRACTOR SHALL PROVIDE EVIDENCE TO THE ENGINEER THAT THE LIGHTING CONTROLS SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS. FUNCTIONAL TESTING SHALL BE IN ACCORDANCE WITH FBC-ENERGY C408.3.1.1 AND C408.3.1.2 FOR THE APPLICABLE CONTROL TYPE.

3.09 FINAL ACCEPTANCE

A. AFTER TESTING, A FINAL INSPECTION SHALL BE MADE BY THE GENERAL CONTRACTOR / ARCHITECT/ ELECTRICAL ENGINEER AND OTHER AUTHORIZED PERSONS WITH THE ELECTRICAL CONTRACTOR. THE INSPECTION SHALL INCLUDE, BUT NOT BE LIMITED TO, CHECK ALL PANELS ARE COMPLETE WITH NAMEPLATES AND CIRCUIT DIRECTORIES, ALL LIGHTING FIXTURES ARE OPERATING, PROPERLY CLEANED AND LAMPED, AND THAT ALL WORK HAS BEEN PERFORMED IN PROFESSIONAL MANNER.

B. FINAL ACCEPTANCE OF THE PROJECT SHALL NOT PREJUDICE THE OWNER'S RIGHT TO REQUIRE REPLACEMENT AND/OR REPAIR OF ANY DEFECTIVE WORK OR MATERIALS.

3.10 WARRANTY

A. ALL PARTS, MATERIALS, EQUIPMENT AND LABOR FURNISHED UNDER THIS SECTION OF THE SPECIFICATIONS SHALL BEAR A ONE (1) YEAR, NO COST TO THE OWNER, WARRANTY FROM THE DATE OF FINAL ACCEPTANCE. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL OF THE ABOVE WARRANTY REQUIREMENTS IN A WRITTEN STATEMENT ALONG WITH EQUIPMENT MANUFACTURER'S WARRANTIES.

3.11 RECORD DRAWINGS

A. ELECTRICAL CONTRACTOR SHALL KEEP ACCURATE RECORDS OF ACTUAL CONDITIONS INCLUDING DEVICE LOCATIONS AND CONDUIT RUNS WHERE DIFFERENT FROM THE CONTRACT DOCUMENTS. ELECTRICAL CONTRACTOR SHALL PROVIDE OWNER WITH A REPRODUCIBLE SET OF "AS BUILT" PLANS SHOWING THE COMPLETE ELECTRICAL SYSTEMS AS INSTALLED (AS BUILT DRAWINGS). THE SCALE ON THESE AS BUILT DRAWINGS SHALL BE NO SMALLER THAN THE SCALE USED ON THE ORIGINAL PLANS.

END OF DIVISION 16

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BUILDING REMODEL FOR:
GOODWILL NAPLES - REGIONS BANK
12621 Tamiami Trl E,
Naples, FL 34113

ELECTRICAL SPECIFICATIONS

ISSUE HISTORY

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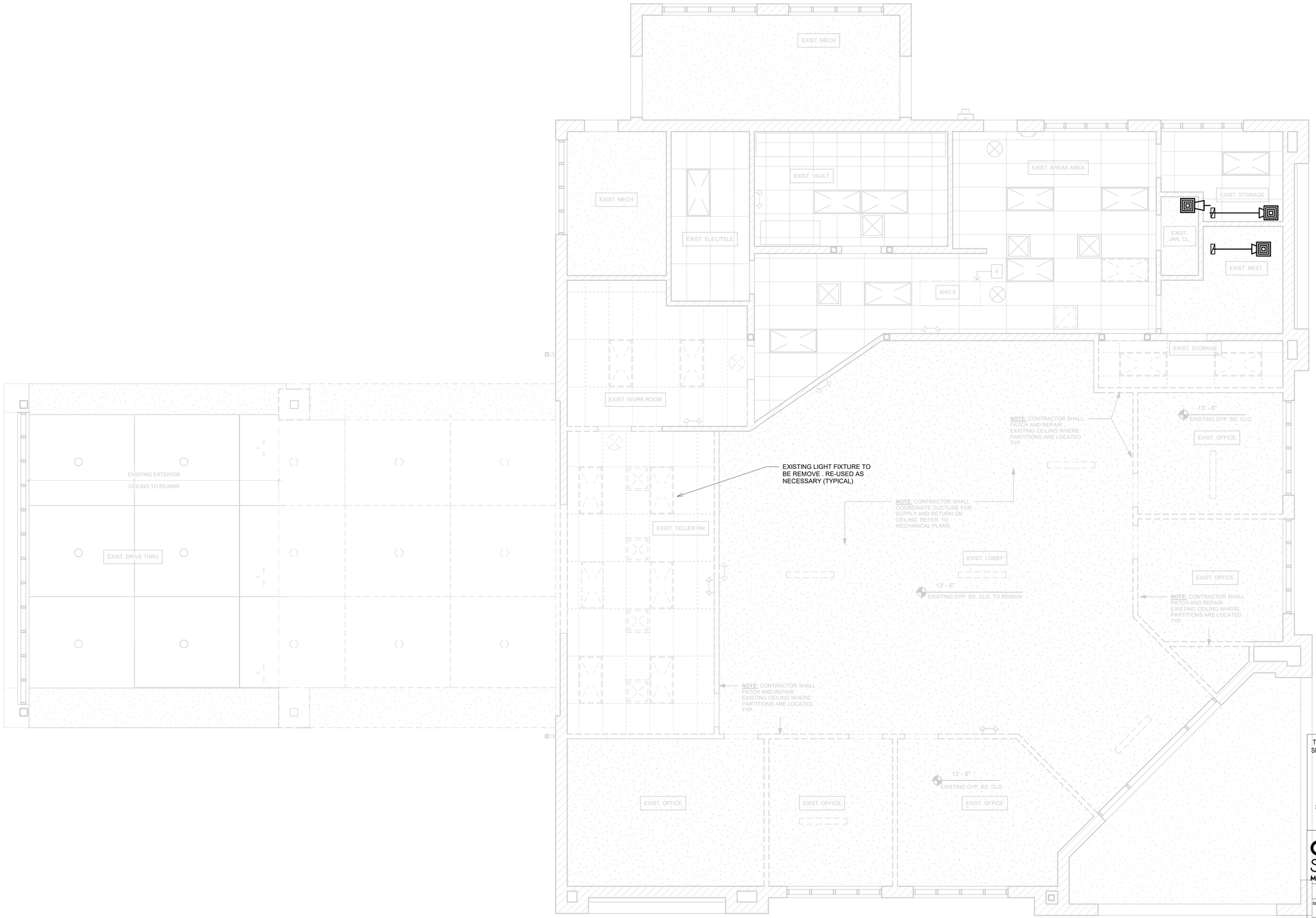

1 ELECTRICAL LIGHTING DEMO CEILING PLAN Copy 1
E201 1/4" = 1'-0"

NORTH
PLAN NORTH

THE DESIGN PROFESSIONAL WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO FOLLOW THE DESIGN PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED.

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ELECTRICAL LIGHTING DEMO CEILING PLAN

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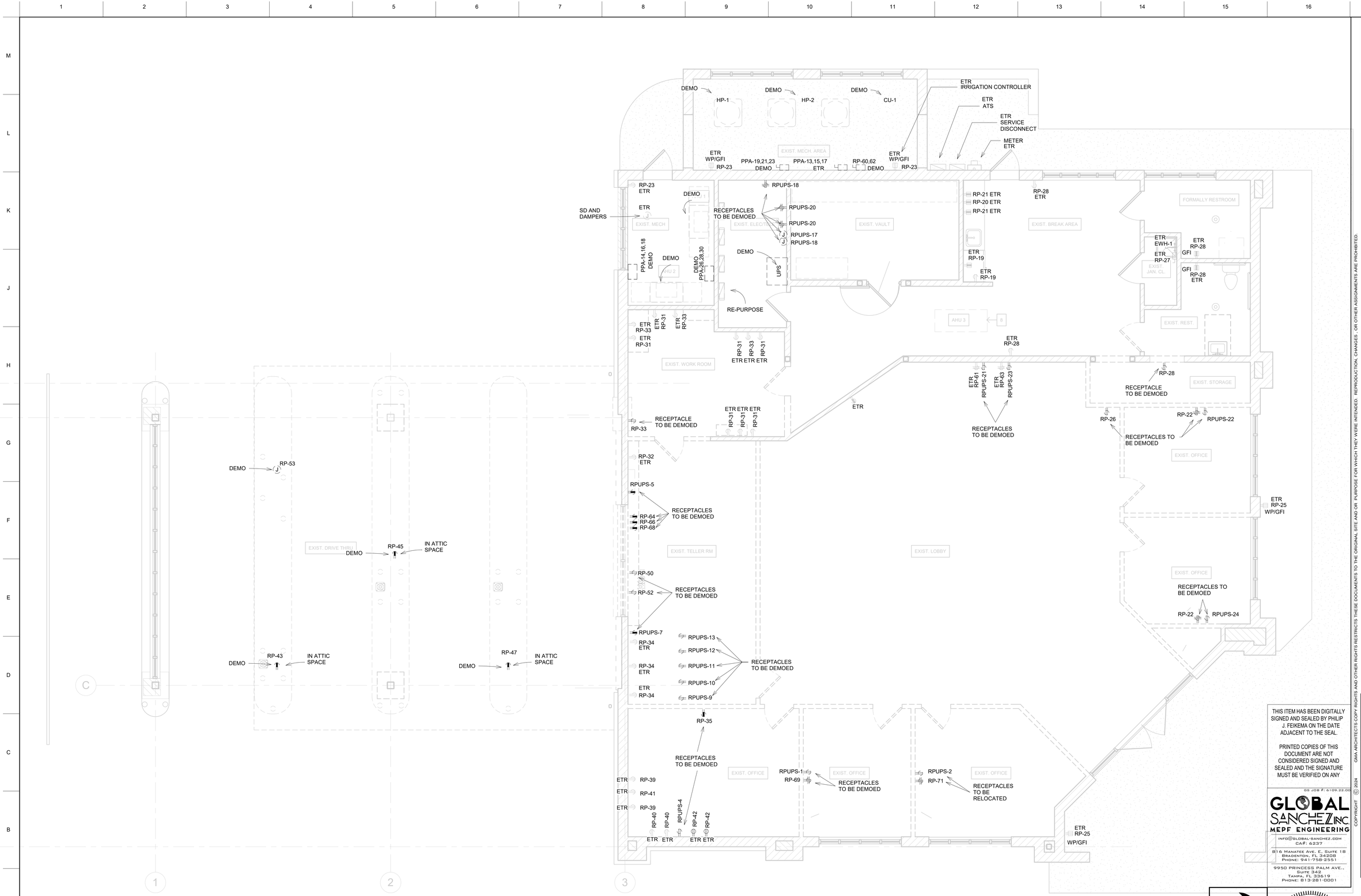

1 ELECTRICAL POWER DEMO FLOOR PLAN

E301 1/4" = 1'-0"

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PLAN NORTH

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ELECTRICAL POWER DEMO FLOOR PLAN

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PHILIP J. FEIKEMA
LICENSE
No. 65083
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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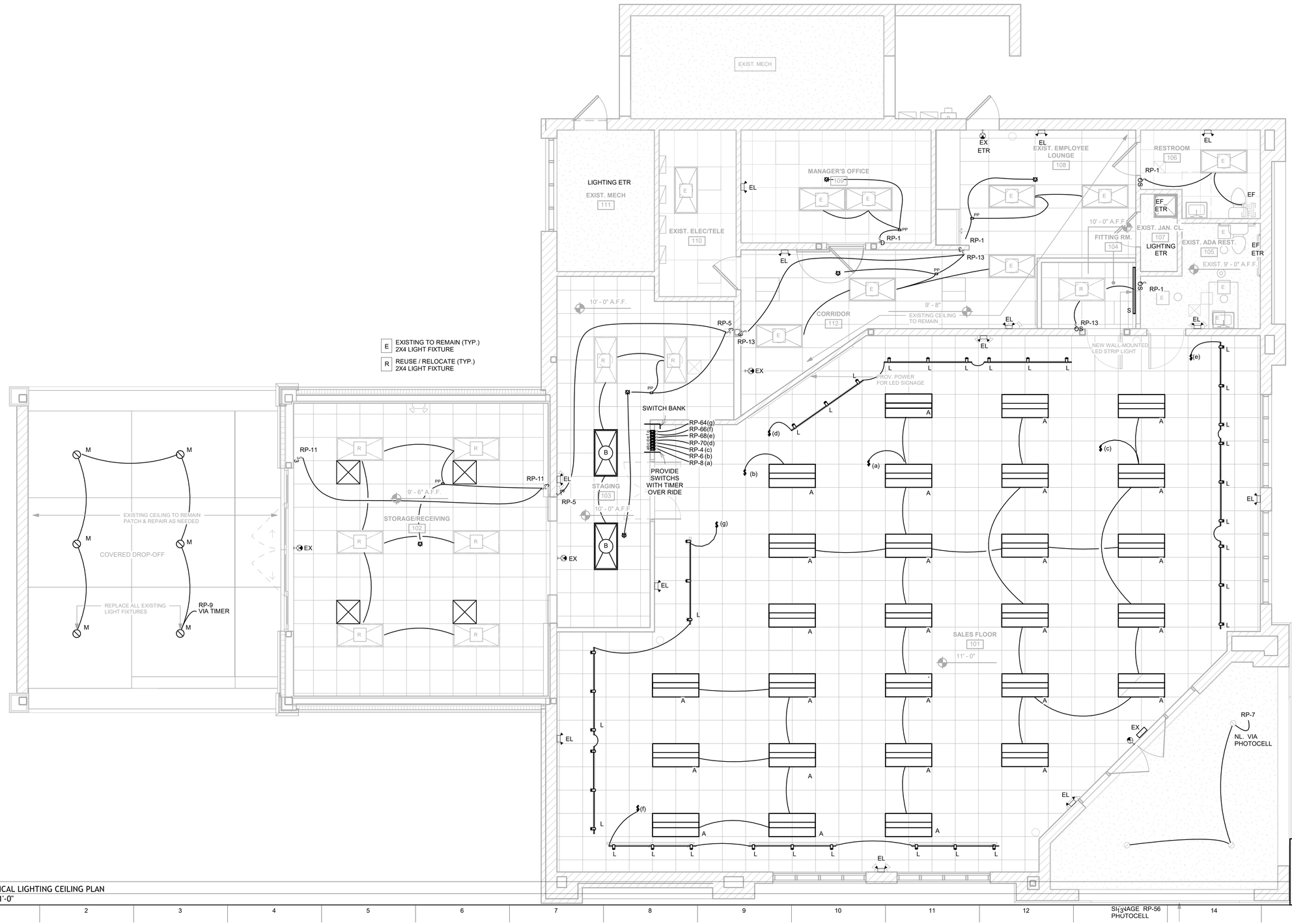

1 ELECTRICAL LIGHTING CEILING PLAN
E401 1/4" = 1'-0"

NORTH
PLAN NORTH

GMA ARCHITECTS PLANNERS
43 BARKLEY CIRCLE SUITE #202
FORT MYERS, FL 33907
P: 239 275.0225

BUILDING REMODEL FOR:
GOODWILL NAPLES - REGIONS BANK
12621 Tamiami Trl E,
Naples, FL 34113

ELECTRICAL LIGHTING CEILING PLAN

ISSUE HISTORY

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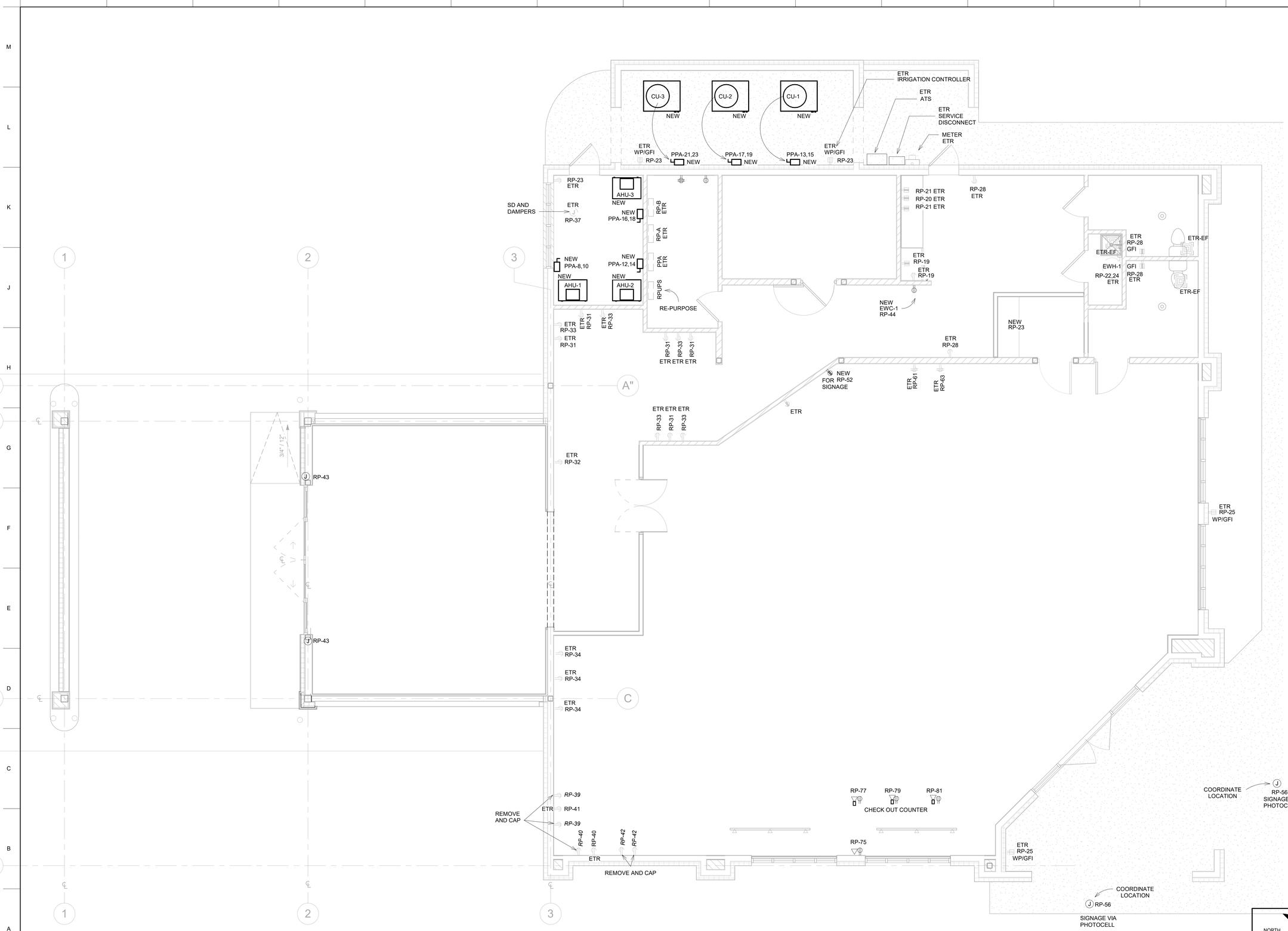

1 ELECTRICAL POWER FLOOR PLAN
E501 1/4" = 1'-0"

NORTH
PLAN NORTH

THE DESIGN PROFESSIONAL WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS WHICH ARISE FROM OTHERS' FAILURE TO FOLLOW THE DESIGN PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED.

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ELECTRICAL POWER PLAN

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ETR PANELBOARD: 'PP-A'
ELECTRICAL SERVICE CALCULATION

LOAD	CONNECTED	DEMAND
CU-1	7,700	7,700
CU-2	7,700	7,700
CU-3	4,035	4,035
AHU-1	8500	8,500
AHU-2	8500	8,500
AHU-3	5680	5,680
RP-P	52300	52,300
RP-UPS	0	0
TOTAL	94,415	94,415
262 AMP DEMAND		
400A SERVICE @ 208V, 3-PHASE PROVIDED		

ETR PANELBOARD DESIGNATION: 'PP-A'

VOLTAGE: 208/120V | 3□-4W | MAINS RATING: 400 AMPS | MAIN CB TRIP RATING: MLO
■SURFACE □MCB | COPPER BUS | INTERRUPTING RATING: ETR
□FLUSH ■MLO | ENCLOSURE: NEMA 1

	SERVES	CB SIZE	LOAD VA	CKT	A	B	C	CKT	LOAD VA	CB SIZE	SERVES	
E	~SPACE			1	●			2			~SPACE	E
E	~SPACE			3		●		4			~SPACE	E
E	~SPACE			5			●	6			~SPACE	E
E	~SPACE			7	●			8	4250	60	AHU-1	+
E	SPARE	100		9		●		10	4250			
				11			●	12	4250	60	AHU-2	+
+	CU-1	50	3850	13	●			14	4250			
			3850	15		●		16	2838	30	AHU-3	+
+	CU-2	50	3850	17			●	18	2839			
			3850	19	●			20	19200			
+	CU-3	25	2017	21		●		22	19200	200	RP-P	E
			2017	23			●	24	19200			
E	SPD	50	0	25	●			26	0	100	RP-UPS	E
			0	27		●		28	0			
			0	29			●	30	0			

A PROVIDE WITH LOCKED ON PROVISION FOR FIRE ALARM CIRCUITS.
* COORDINATE REQUIREMENTS WITH EQUIPMENT PROVIDER.
L PROVIDE LOCKABLE OFF PROVISION PER NEC 422.31.
+ PROVIDE NEW CIRCUIT BREAKER. ARRANGE BREAKERS TO MATCH SCHEDULE.
G PROVIDE WITH GROUND FAULT PROTECTION

ETR PANELBOARD: 'RP-1'
ELECTRICAL SERVICE CALCULATION

LOAD	CONNECTED	DEMAND
RECEPTACLES	6840	6,840
ETR LOAD ESTIMATE	26,000	26,000
TOTAL	32840	32840
91 AMP DEMAND		
200A SERVICE @ 208V, 3-PHASE PROVIDED		

ETR PANELBOARD DESIGNATION: 'RP SECT 1'

VOLTAGE: 208/120V | 3□-4W | MAINS RATING: 225 AMPS | MAIN CB TRIP RATING: ETR
■SURFACE □MCB | COPPER BUS | INTERRUPTING RATING: ETR
□FLUSH ■MLO | ENCLOSURE: NEMA 1

	SERVES	CB SIZE	LOAD VA	CKT	A	B	C	CKT	LOAD VA	CB SIZE	SERVES	
+	LTG ELE/RM/TELE/BRK	20		1	●			2		20	RECPT	
	WH	20		3		●		4		20	SALES FLOOR	+
+	LTG STAGING 103	20		5			●	6		20	SALES FLOOR	+
	LTS ENTRY	20		7	●			8		20	SALES FLOOR	+
+	LTG COVRED DRP OFF	20		9		●		10		20	TOWER WALL SIGNS	
+	LTG DONATE/RECEIVE	20		11			●	12		20	SPARE	
+	CORRIDOR	20		13	●			14				
	~SPACE			15		●		16		20	SPARE	
	~SPACE			17			●	18				
	WORKRM FRIDG/CCTV	20		19	●			20		20	RECPT MICROWAVE	
	WORKRM RECPT	20		21		●		22		20	SPARE	
	MECH RM/EXT RECPT	20		23			●	24				
	REC DYPK/FRONT EXT	20		25	●			26		20	DRESSING ROOM	+
	WATER HEATER	20		27		●		28		20	REC EWC/RR/BRKRM	
	RECPT COPIER/FAX	20		29			●	30		20	LIGHT / EM	
	CASHRM RECPT	20		31	●			32		20	RECPT -TELLER	
	CASHRM RECPT	20		33		●		34		20	RECPT -TELLER	
	RECPT WORK	20		35			●	36			~SPACE	
	SMOKE DECT/DAMPER	20		37	●			38		30	REC DYPK VAULT TV	
	SPARE	20		39		●		40			WORKROOM RECPT	
	WOOKROOM RECPT	20		41			●	42			SPARE	

A PROVIDE WITH LOCKED ON PROVISION FOR FIRE ALARM CIRCUITS.
* COORDINATE REQUIREMENTS WITH EQUIPMENT PROVIDER.
L PROVIDE LOCKABLE OFF PROVISION PER NEC 422.31.
+ PROVIDE NEW CIRCUIT BREAKER, MATCH EXISTING TYPE AND RATING.
G PROVIDE WITH GROUND FAULT PROTECTION

ETR PANELBOARD: 'RP-UPS'
ELECTRICAL SERVICE CALCULATION

LOAD	CONNECTED	DEMAND
LIGHTING	0	0
RECEPTACLES	0	0
TOTAL	0	0
0 AMP DEMAND		
100A SERVICE @ 208V, 3-PHASE PROVIDED		

* 0.65 DEMAND FACTOR PER NEC 220.56

ETR PANELBOARD DESIGNATION: 'RP-UPS'

VOLTAGE: 208/120V | 3□-4W | MAINS RATING: 100 AMPS | MAIN CB TRIP RATING: MLO
■SURFACE □MCB | COPPER BUS | INTERRUPTING RATING: ETR
□FLUSH ■MLO | ENCLOSURE: NEMA 1

SERVES	CB SIZE	LOAD VA	CKT	A	B	C	CKT	LOAD VA	CB SIZE	SERVES
SPARE	20	0	1	●			2	0	20	SPARE
~SPACE			3		●		4	0	20	SPARE
SPARE	20	0	5			●	6			~SPACE
SPARE	20	0	7	●			8			~SPACE
SPARE	20	0	9		●		10	0	20	SPARE
SPARE	20	0	11			●	12	0	20	SPARE
SPARE	20	0	13	●			14			~SPACE
SPARE	20	0	15		●		16	0	20	SPARE
SPARE	20	0	17			●	18	0	20	SPARE
SPARE	20	0	19	●			20	0	20	SPARE
SPARE	20	0	21		●		22	0	20	SPARE
SPARE	20	0	23			●	24	0	20	SPARE
~SPACE			25	●			26	0		
SPARE	20	0	27		●		28	0	30	SPD
SPARE	20	0	29			●	30	0		

A PROVIDE WITH LOCKED ON PROVISION FOR FIRE ALARM CIRCUITS.
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G PROVIDE WITH GROUND FAULT PROTECTION

ETR PANELBOARD: 'RP-2'
ELECTRICAL SERVICE CALCULATION

LOAD	CONNECTED	DEMAND
ETR LOAD ESTIMATE	18,000	18,000
SIGNAGE	1200	1,500
DOOR POWER	1200	1,200
TOTAL	19200	19500
54 AMP DEMAND		
225A SERVICE @ 208V, 3-PHASE PROVIDED		

ETR PANELBOARD DESIGNATION: 'RP SECT 2'

VOLTAGE: 208/120V | 3□-4W | MAINS RATING: 200 AMPS | MAIN CB TRIP RATING: MLO
■SURFACE □MCB | COPPER BUS | INTERRUPTING RATING: ETR
□FLUSH ■MLO | ENCLOSURE: NEMA 1

SERVES	CB SIZE	LOAD VA	CKT	A	B	C	CKT	LOAD VA	CB SIZE	SERVES
DOOR POWER	20	1200	43	●			44		20	EWH-1
SPARE	20		45		●		46			~SPACE
SPARE	20		47			●	48			~SPACE
PHOTO CELL	20		49	●			50		20	SPARE
~SPACE			51		●		52		20	SALES SIGNAGE
~SPACE	20		53			●	54		20	LTS-O/C LIGHTS
EF #1	20		55	●			56		20	SIGNAGE PHOTO CELL
SPARE	20		57		●		58		20	VAULT DOOR
			59			●	60		50	SPARE
RETAIL	20		61	●			62			
RETAIL	20		63		●		64		20	SALES TRACK LIGHTS
~SPACE	20		65			●	66		20	SALES TRACK LIGHTS
BATH LIGHT	20		67	●			68		20	SALES TRACK LIGHTS
SPARE	20		69		●		70		20	SALES TRACK LIGHTS
SPARE	20		71			●	72		20	COUNTERETTE
RECPT ELECT. RM	20		73	●			74		20	COUNTERETTE
CHECK-OUT POS	20	500	75		●		76			~SPACE
CHECK-OUT POS	20	500	77			●	78			~SPACE
CHECK-OUT POS	20	500	79	●			80			~SPACE
CHECK-OUT POS	20	500	81		●		82			~SPACE
~SPACE			83			●	84			~SPACE

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ELECTRICAL SCHEDULES

ISSUE HISTORY

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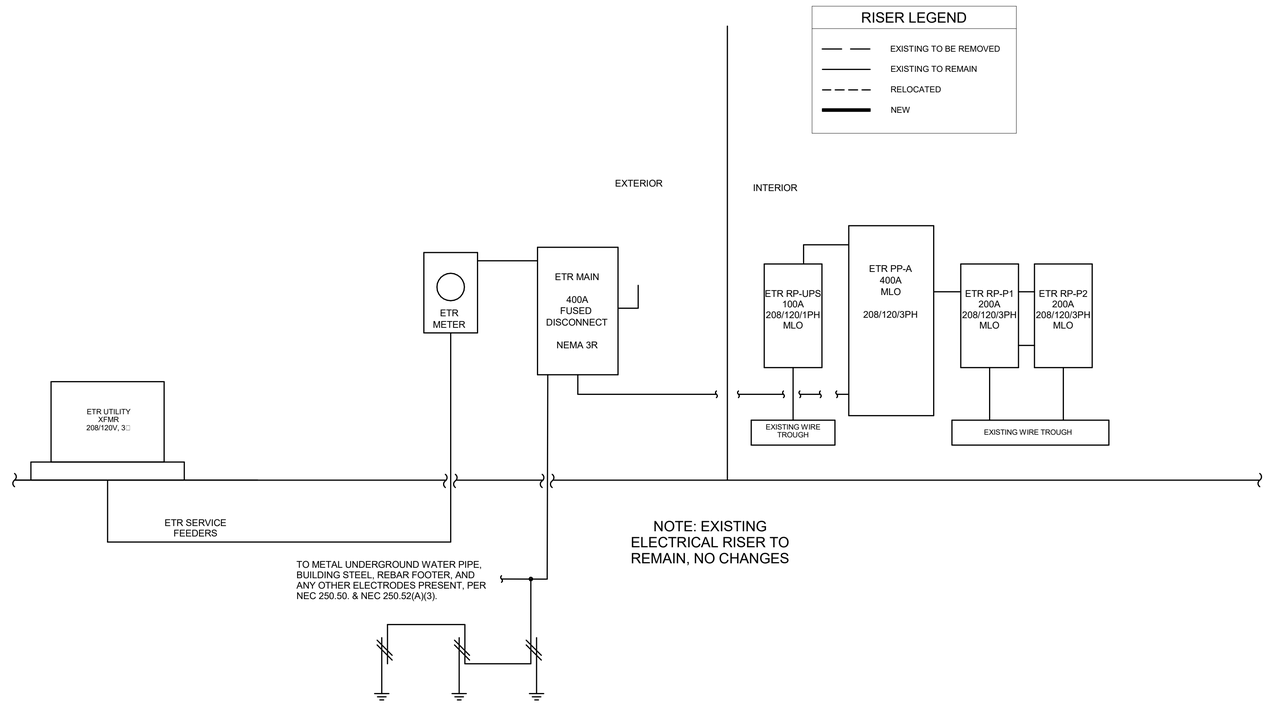

NOTE: EXISTING
ELECTRICAL RISER TO
REMAIN, NO CHANGES

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ELECTRICAL RISER DIAGRAM

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