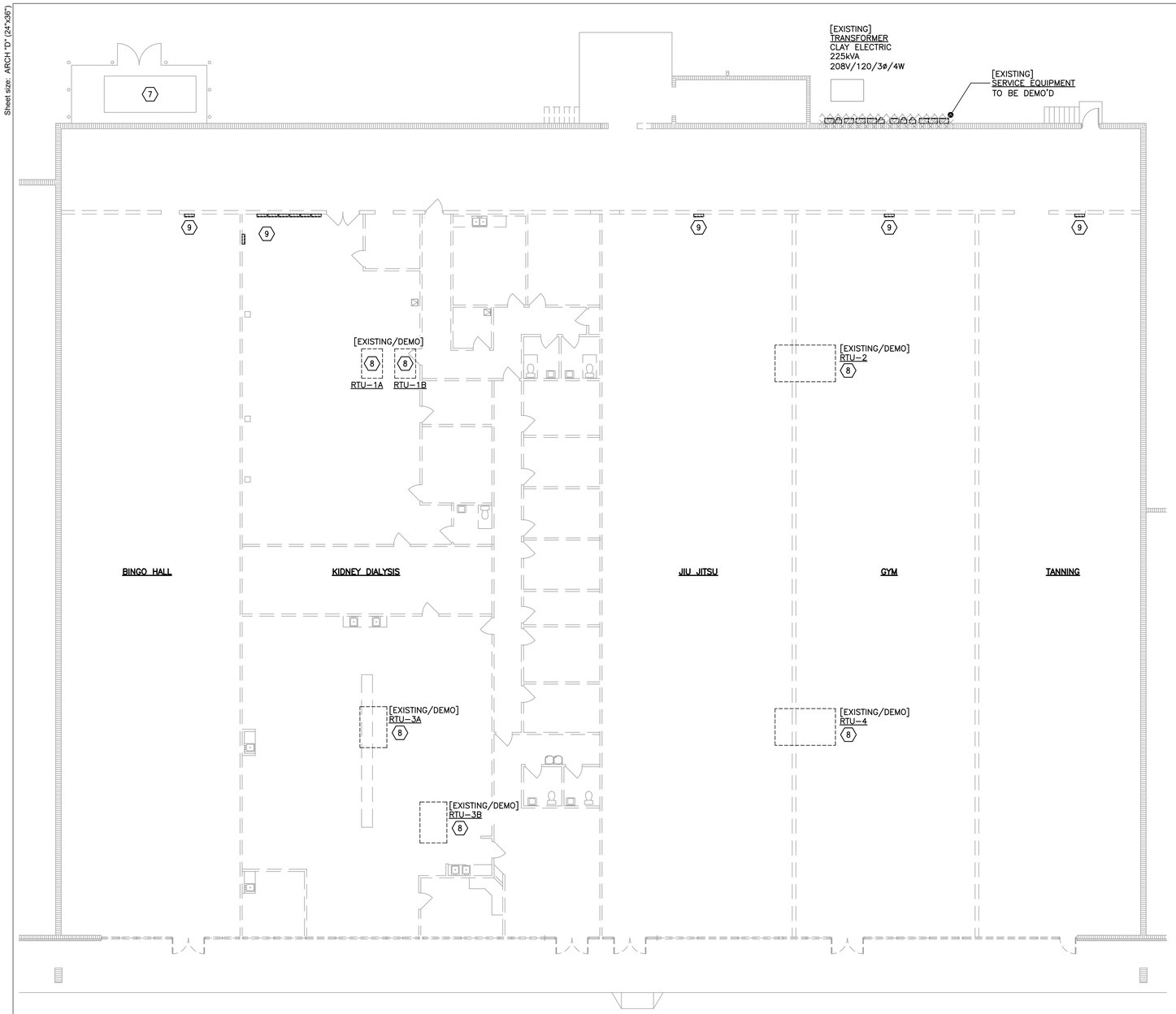
Sheet size: ARCH "D" (24"x36")



ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	BRANCH CIRCUIT HOMERUN: (2) CIRCUIT EXAMPLE >GROUND HASHMARK DENOTES GROUND WIRE >LONG HASHMARK DENOTES NEUTRAL WIRE >SHORT HASHMARKS DENOTE PHASE WIRES >20A CIRCUITS SHALL BE MIN #12, ¾"C UON >30A CIRCUITS SHALL BE MIN #10, ¾"C UON
	BRANCH CIRCUIT HOMERUN: NO HASHMARKS DENOTE (3) WIRES (GROUND, NEUTRAL, & PHASE)
	CIRCUIT – CONDUIT/WIRE
	CIRCUIT – CONDUIT/WIRE UNDERFLOOR/GRADE
	CIRCUIT – EMERGENCY OR LOW VOLTAGE (LV)
	GROUNDING ELECTRODE
	GROUNDING SYMBOL
	CIRCUIT – PULLWIRE IN CONDUIT
	CIRCUIT – CONDUIT STUB–OUT 12" ABOVE GRADE
	CIRCUIT – CONDUIT TURNED UP/DWN SEE DWGS
VD	UPSIZED CONDUCTORS FOR VOLTAGE DROP
	LTG – PHOTOCELL
	LTG – EMERGENCY EXIT SIGN
1 / E1.1	DETAIL SYMBOL– DETAIL # / DRAWING # ARROW HEAD INDICATES DIRECTION OF VIEW
	PANELBOARD (PNL)
	TELEPHONE BACKBOARD (TBB)
30/3/3R	DISC– SWITCH (NEMA FRAME SIZE/ # POLES/NEMA ENCLOSURE)
M	MOTOR
	REC – DUPLEX
	MTD ABOVE MILLWORK, REF. ARCH ELEVATIONS
	REC– DUPLEX GND FAULT INTERRUPTER (GFI)
	REC– GFI MTD ABOVE MILLWORK, REF. ARCH ELEVATIONS
	REC– DUPLEX (SWITCHED BOTTOM)
	REC– DUPLEX GFI W/IN–USE WP ENCLOSURE
	REC– QUADRAPLEX
	REC– QUADRAPLEX MTD ABOVE MILLWORK, REF. ARCH ELEVATIONS
	REC– DUPLEX FLOOR MTD
	COMBINATION PWR/TELECOM FLR BOX
	REC – RECESSED TV RECEPTACLE (SEE PLAN FOR HEIGHT)
J	JBX– JUNCTION BOX (JBX)
R	CONTROL RELAY
V	COMM– (1) F–CONNECTOR W/ RG–6 CABLE AND (1) RJ45 JACK WITH (1) CAT–6 CABLES
V	COMM– MTD ABOVE MILLWORK (SEE ARCH DWGS)
3	REVISIONS/ADDITIONS

DRAWING INDEX

ABBREVIATIONS

A	AMPS
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AIC	AVAILABLE INTERRUPTING CAPACITY
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AT	AMP TRIP (BREAKER)
C	CONDUIT
CALC	CALCULATION
CKT	CIRCUIT
CLG	CEILING
CPT	CONTROL POWER TRANSFORMER
CT'S	CURRENT TRANSFORMERS
DISC	DISCONNECT
DT	DUAL TECHNOLOGY
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ELEC	ELECTRICAL
ENCL	ENCLOSED
EPO	EMERGENCY POWER OFF STATION
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
G	GROUND
GE	GROUNDING ELECTRODE
GEC	GROUNDING ELECTRODE CONDUCTOR
GFI	GND FAULT INTERRUPTER
GND	GROUND
JBX	JUNCTION BOX
LAN	LOCAL AREA NETWORK
LED	LIGHT EMITTING DIODE
LTG	LIGHT/ LIGHTING
LV	LOW VOLTAGE
MB	MAIN BREAKER
MCA	MINIMUM CIRCUIT AMPACITY
MDP	MAIN DISTRIBUTION PANEL
MOCP	MAXIMUM OVERCURRENT PROTECTION
MV	MULTI–VOLT (480/277/120V)
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELEC MANUFACTURERS ASSOCIATION
N/L	NIGHT LIGHT (CKT AHEAD OF ALL SWITCHES)
OCP	OVERCURRENT PROTECTION
OH	OVERHEAD
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMIN
PNL	PANELBOARD
PIR	PASSIVE INFRARED
PPE	PERSONAL PROTECTIVE EQUIPMENT
PWR	POWER
REC	RECEPTACLE
REF	REFERENCE
REV	REVISION
RTU	ROOF TOP UNIT
SE	SERVICE ENTRANCE
SOS	SCOPE OF SERVICES
SPD	SURGE PROTECTION DEVICE
SPECS	SPECIFICATIONS
SPX	SPLICE BOX
TBD	TO BE DETERMINED
T/M	THERMAL MAGNETIC BREAKER
T/S	TIMESWITCH
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLTAGE
WH	WATER HEATER
WP	WEATHER PROTECTED

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, NATIONAL ELECTRIC SAFETY CODE, N.F.P.A., O.S.H.A. REGULATIONS AND ALL OTHER EXISTING CODES AND REGULATIONS OF AUTHORITIES WHICH HAVE JURISDICTION.
2. THE CONTRACT DRAWINGS ARE DIAGRAMMATIC IN NATURE AND NOT EVERY DETAIL OR CONDUIT IS EXISTING CONDITIONS AND DIMENSIONS SHALL BE VERIFIED IN THE FIELD BEFORE COMMENCING ANY FABRICATION, ORDERING ANY MATERIAL, OR PERFORMING ANY WORK. ANY DEPARTURE FROM CONCEPT SHOWN ON THE CONTRACT DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. ALL ELECTRICAL EQUIPMENT SHOWN ON THE DRAWINGS AND/OR REQUIRED FOR THE FULL INTEGRITY OF THE CONTRACT SHALL BE FURNISHED, INSTALLED AND CONNECTED BY THE CONTRACTOR, EXCEPT WHERE EQUIPMENT SHOWN IS IDENTIFIED AS "EXISTING" OR OTHERWISE NOTED ON THE DRAWINGS.
3. UNLESS OTHERWISE NOTED, EQUIPMENT AND MATERIALS TO BE PROVIDED SHALL BEAR LISTING AND LABELING BY A NATIONALLY RECOGNIZED TESTING AGENCY WHERE SUCH STANDARD HAD BEEN ESTABLISHED FOR THAT TYPE OF EQUIPMENT/MATERIAL.
4. THE CONTRACTOR SHALL SUBMIT DETAILED EQUIPMENT LAYOUT PLANS, SECTIONS, AND MOUNTING DETAILS SHOWING PROPOSED LOCATION OF ALL EQUIPMENT AND REQUIRED WORKING/SERVICE CLEARANCES PRIOR TO INSTALLATION.
5. CONTRACTOR SHALL VISIT THE PROJECT SITE AND EXAMINE AND CONFIRM EXISTING CONDITIONS. ALL CHANGES SHALL BE PRESENTED DURING SHOP DRAWING SUBMITTALS FOR ENGINEER'S APPROVAL.
6. CONDUITS SHALL CONTAIN AN INSULATED GROUND WIRE BONDED TO ENCLOSURES AND SIZED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEC, IF SIZE IS NOT SHOWN ON THE CONTRACT DRAWINGS.
7. THE CONTRACTOR SHALL PROVIDE CONDUIT FITTINGS, CONNECTORS, CLAMPS, HARDWARE, HANGERS, AND SUPPORTS AS NECESSARY FOR A COMPLETE INSTALLATION.
8. THE CONTRACTOR SHALL PROVIDE TAGS FOR EQUIPMENT, CONDUITS, AND CABLES THAT ARE INSTALLED UNDER THIS CONTRACT. TAG IDENTIFICATIONS SHALL BE IN ACCORDANCE WITH CONTRACT DRAWINGS. TAGS FOR CONDUITS SHALL BE AS DESCRIBED IN SPECIFICATIONS.
9. UNUSED OPENINGS IN CONDUITS, BOXES, DISCONNECT SWITCHES, CABINETS, AND PANEL BOARDS SHALL BE CAPPED OR PLUGGED.
10. CONTRACTOR SHALL PROVIDE THE NECESSARY MATERIALS, LABOR AND ATTENDANCE FOR THE OPERATION OF TEMPORARY LIGHT AND CONSTRUCTION POWER AS REQUIRED DURING WORKING HOURS FOR THE ENTIRE CONSTRUCTION PERIOD.
11. ALL BRANCH CIRCUITS OVER 75 FEET IN LENGTH SHALL BE RUN WITH #1 CONDUCTOR, UNLESS OTHERWISE NOTED.
12. SCHEDULE ALL DISCONNECTION AND INTERRUPTIONS OF ELECTRICAL SERVICE, COMMUNICATIONS AND SUPERVISORY SYSTEMS WITH THE OWNER AND ENGINEER.
13. CONTRACTORS SHALL FOLLOW ALL OWNER SITE SAFETY WORK PROCESSES AND PROCEDURES, FOR EXAMPLE, WORK PERMITS, SAFETY TASK ANALYSIES, LOCKOUT TAGOUT (LOTO), LOCK, TAG AND TRY, AND RED TAG, ETC.
14. CONTRACTORS SHALL COORDINATE ALL WORK ACTIVITIES WITH OPERATIONS, MAINTENANCE, AND OTHER CONTRACTORS.

(#) KEYED DEMOLITION NOTES:

1. WALLS THAT ARE SLATED TO BE REMOVED BY OTHER. THE E.C. SHALL REMOVE RECEPTACLES, OUTLET BOXES, CONDUIT, JUNCTION BOXES, AND WIRE FROM THE WALLS BACK TO THE PANEL FEEDING THEM. EC SHALL INSURE ALL POWER IS TURNED OFF AND LOCKED OUT PRIOR TO DEMO/REMOVAL.
2. [DEMO] ALL EXISTING SURFACE MOUNTED LIGHTS FROM THE CEILING OF THIS SPACE. NEW LIGHT FIXTURES TO BE INSTALLED.
3. [DEMO] ALL EXISTING EXIT SIGN FROM THE CEILING, INCLUDING CONDUIT AND WIRE TO THE NEAREST PANEL.
4. [DEMO] ALL EXISTING FIRE ALARM DEVICES, WIRE, CONDUIT. AND PANEL.
5. [DEMO] ALL EXISTING CEILING MOUNTED OCCUPANCY SENSORS.
6. [DEMO] ALL EXISTING POWER POLES.
7. [EXISTING] STANDBY GENERATOR: BASED ON VISUAL INSPECTION DONE ON OUTSIDE OF GEN (DOORS WERE LOCKED), GEN IS ESTIMATED TO BE AT LEAST 10 YEARS OLD. EC SHALL CONDUCT FURTHER INSPECTION/TESTING TO DETERMINE IF GENSET IS STILL OPERATIONAL.
8. [DEMO] EXISTING RTUs. COORDINATE REMOVAL OF MECHANICAL EQUIPMENT WITH MECHANICAL PLANS.
9. [DEMO/EXISTING] TENANT PANELS ARE SHOWN FOR REFERENCE ONLY. EC SHALL FIELD VERIFY LOCATIONS OF EXISTING PANELS PRIOR TO DEMO.

DEMOLITION PLAN

SCALE: 3/32" = 1'–0"

0 2' 6' 12' 24' 30'

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No. 72404
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Do Not Scale The Drawings

5th Revision	
4th Revision	
3rd Revision	
2nd Revision	
1st Revision	
Issue Date	October 26, 2021
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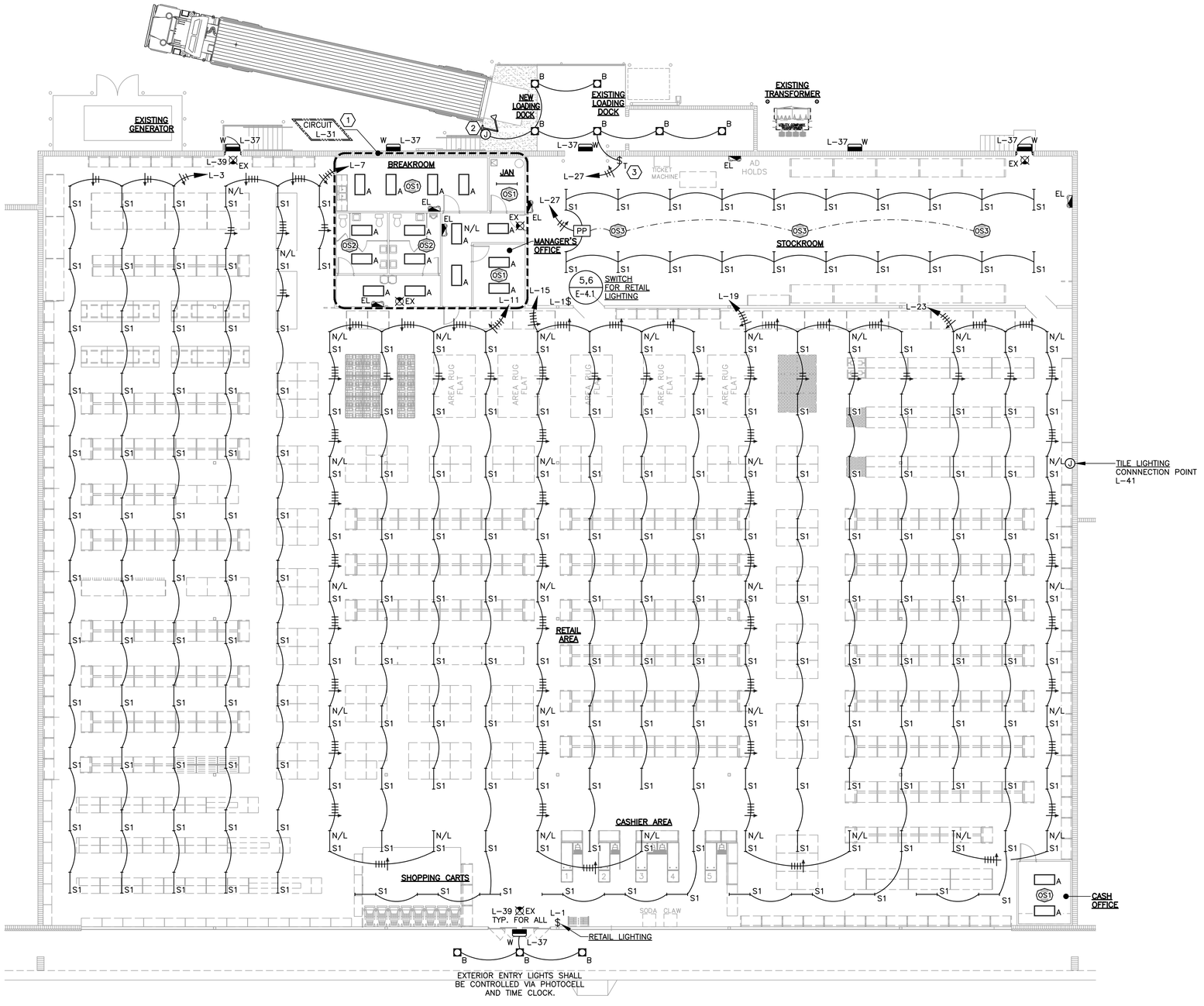
LEGEND, ABBREV., & GENERAL NOTES

E-0



[PROPOSED] LIGHTING PLAN

SCALE: 3/32" = 1'-0"

0 2' 6' 12' 24' 30'

KEYED PLAN NOTES:

1. LIGHTING FIXTURES LOCATED WITHIN DASHED LINE ARE FED BY CIRCUIT INDICATED ON TAG.
2. COORDINATE MOUNTING LOCATION OF DOCK LIGHT WITH OWNER.
3. RHEOSTAT 2-HOUR TIMER SWITCH: COORDINATE FINAL LOCATION AND SWITCH TYPE WITH OWNER.

OCCUPANCY SENSOR DATA

SYMBOL	DESCRIPTION
OS1	CEILING MOUNT PIR OCCUPANCY SENSOR WATTSTOPPER UT-300 OR EQUAL
OS2	CEILING MOUNT PIR/ULTRASONIC OCCUPANCY SENSOR WATTSTOPPER DT-205 OR EQUAL
OS3	LOW VOLTAGE CEILING MOUNT PIR/ULTRASONIC OCCUPANCY SENSOR WATTSTOPPER DT-300 OR EQUAL
PP	POWER PACK WATTSTOPPER BZ-50 OR BZ-150 DEPENDING ON APPLICATION OR EQUAL
	LV CLASS 2 CONDUCTOR, PLENUM RATED

EXIT SIGN PLAN NOTES:

1. EXTERIOR EXIT DOOR WALLPACKS FOR PERSONNEL EXTERIOR EGRESS SHALL HAVE AN UNSWITCHED CIRCUIT WIRE TO THE BALLAST THAT WOULD SIGNAL THE BALLAST IF THERE IS A LOSS OF UTILITY POWER, AND SWITCH TO EMERGENCY BALLAST AND ENERGIZE. WHILE UNDER NORMAL CONDITIONS THE PHOTOCELL CONTROLLED CIRCUIT WILL CYCLE THE FIXTURE ON AND OFF.
2. EXIT SIGNS & EMERGENCY EGRESS PACKS ARE WIRED AHEAD OF ALL SWITCHING CONTROLS TO HAVE CONTINUOUS CIRCUIT AND IF THERE IS A LOSS OF UTILITY POWER, SWITCH TO EMERGENCY BALLAST AND ENERGIZE.

LTG SCHEDULE NOTES:

3. ALL CHANGES/VE TO LUMINAIRE SCHEDULE SHALL FIRST PASS THROUGH LIGHTING REP: JIMMY NIX – SESCO LIGHING: 904.509.5629. IN THE EVENT THAT ANOTHER MANUFACTURER IS CHOSEN, THE FOLLOWING SHALL BE COMPARABLE AND APPROVED BY EOR: WARRANTY, BUILD STANDARDS/ QUALITY/MATERIALS, AND PHOTOMETRICS.
4. 'NL'- FIXTURES ARE TO BE CONNECTED AHEAD OF LOCAL SWITCH(ES) TO OPERATE AS NIGHT LIGHT.
5. ORDER FIXTURE WITH ALL REQUIRED PARTS, BRACKETS, ETC FOR WALL MOUNTING.

LUMINAIRE SCHEDULE

SYMBOL	TAG	DESCRIPTION	MANUFACTURER	VOLT	INPUT WATTS	MTG/INSULATION (UNLESS OTHERWISE NOTED)
	A	1-LAMP 2'x4' LAY-IN (LED)	HE WILLIAMS- LP-24-L50/840-DIM-UNV	UNV	48.1W	RECESSED
	B	14" LED SURFACE MTD CANOPY LIGHT	HE WILLIAMS- GC20-NW-G1-SM-5-8-BZ	UNV	20W	SURFACE
	S1	4' LED STRIP (LED)	HE WILLIAMS- 76R-4-L94/840-DIM-UNV	UNV	68.6W	SURFACE
	S2	4' LED STRIP (LED)	HE WILLIAMS- 76R-4-L52/840-DIM-UNV	UNV	35.8W	SURFACE
EX	EX	LED EMERGENCY EXIT SIGN (BATTERY)	BEGHELLI- LC1E-SA-LR-U-B-AL	UNV	2W	WALL/CEILING
EL	EL	EM BATTERY UNIT W/ 2 HEADS	CHLORIDE- S1272LT12W	UNV	2W	WALL
W	W	FULL CUT-OFF LED WALL PACK (LG)	CHLORIDE- S1272LT12W	UNV	2W	WALL/CEILING

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Issue Date	October 26, 2021
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LIGHTING PLAN

E-1.1

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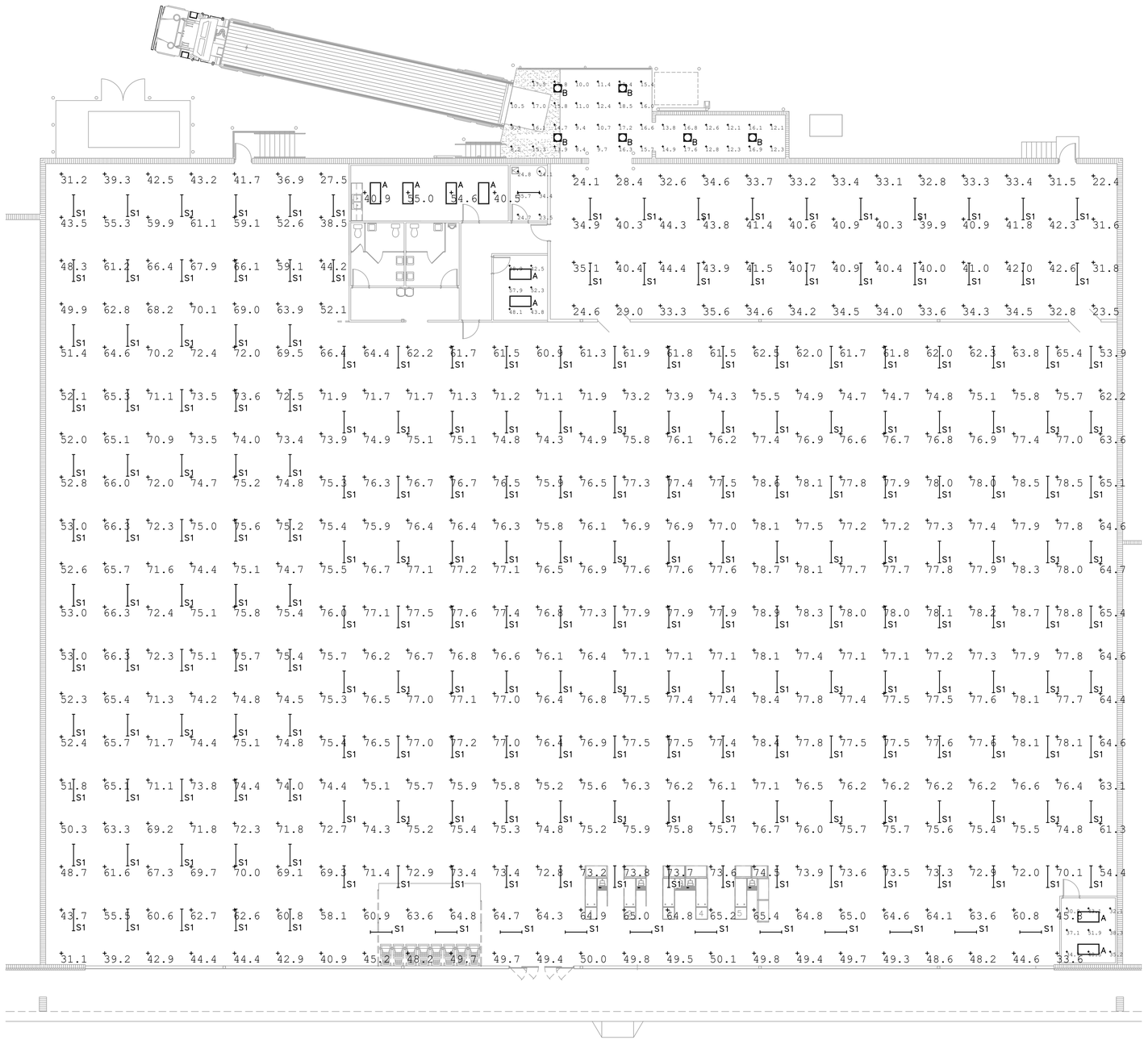

[PROPOSED] PHOTOMETRIC PLAN

SCALE: 3/32" = 1'-0"

0 2' 6' 12' 24' 30'

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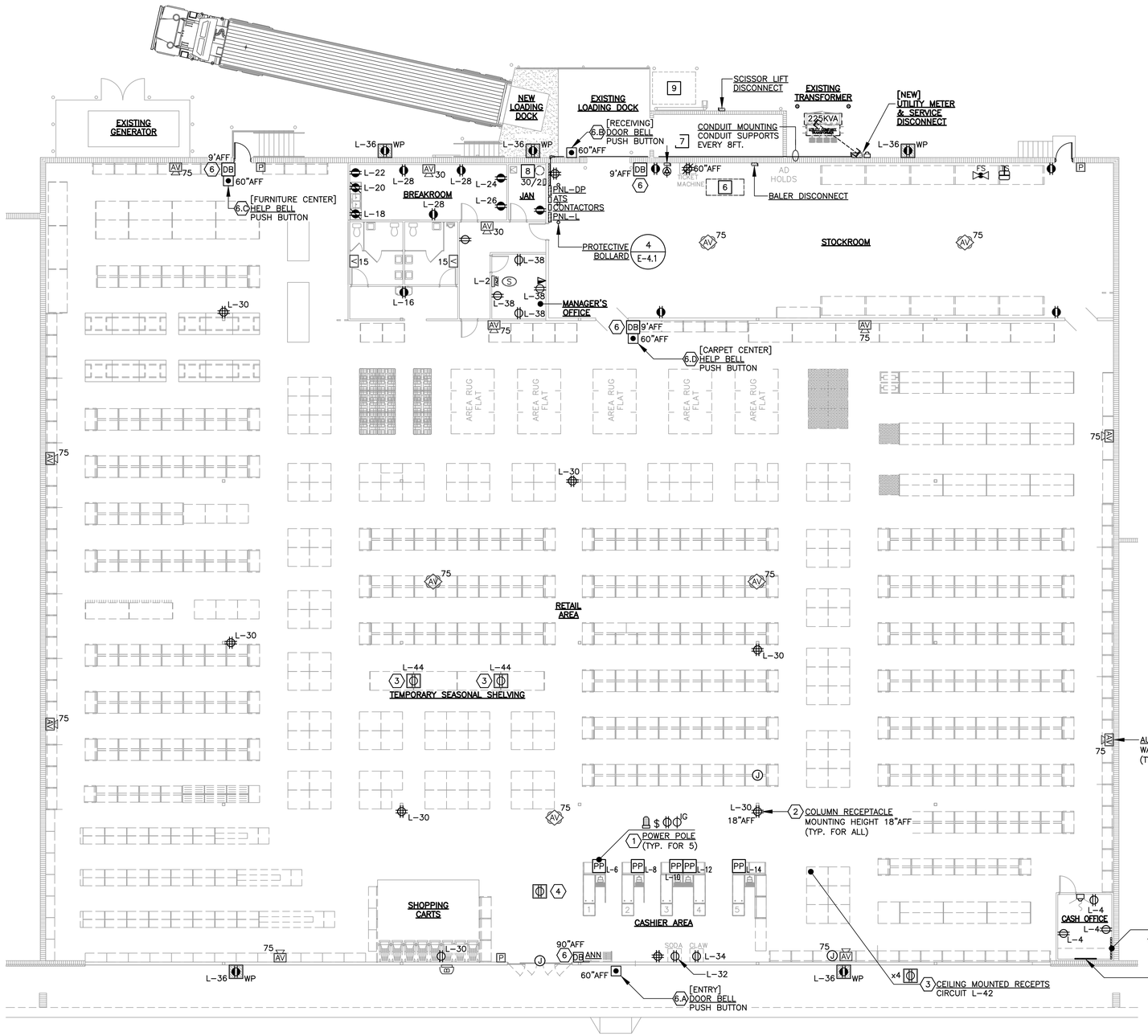
LIGHTING PLAN

E-1.2



[PROPOSED] POWER & SYSTEMS PLAN

SCALE: 3/32" = 1'-0"

0 2' 6' 12' 24' 30'

(#) KEYED PLAN NOTES:

1. EC SHALL INSTALL FIVE (5) IVORY COLORED WIREMOLD 25DTC TWO CHANNEL BLANK POWER POLES (COORDINATE FINAL LENGTH AND LOCATION WITH TENANT) FOR EACH PERMANENT CASH REGISTER. EC SHALL THEN INSTALL THE FOLLOWING DEVICES:

1.A. ONE (1) VAPORTIGHT CAGED SCONCE MOUNTED ON POWER POLE CLOSEST TO THE CUSTOMER LANE 7'AFF, OR 42" ABOVE CHECKOUT COUNTER TO BOTTOM OF GLASS. EC SHALL COORDINATE FINAL TYPE AND ORIENTATION OF SCONCE WITH TENANT PRIOR TO INSTALLATION.

1.B. ONE (1) ON/OFF SWITCH (TO CONTROL SCONCE) MOUNTED ON POWER POLE 12" ABOVE CHECKOUT COUNTER. EC SHALL COORDINATE FINAL ORIENTATION OF LIGHT SWITCH WITH TENANT PRIOR TO INSTALLATION.

1.C. ONE (1) DEDICATED CIRCUIT RECEPTACLE (ISOLATED GROUND RECEPTACLE – ORANGE) LOACTED ON BOTTOM SHELF OF CHECKOUT COUNTER. EC SHALL COORDINATE FINAL TYPE, LOCATION, AND ORIENTATION OF RECEPTACLE WITH TENANT PRIOR TO INSTALLATION.

1.D. ONE (1) STANDARD DUPLEX RECEPTACLE LOCATED ON BOTTOM SHELF OF CHECKOUT COUNTER. EC SHALL COORDINATE FINAL LOCATION AND ORIENTATION OF RECEPTACLE PRIOR TO INSTALLATION.

2. COLUMN MOUNTED DUPLEX RECEPTACLES SHALL BE MOUNTED 18"AFF. EC SHALL COORDINATE QUANTITY AND LOCATIONS OF RECEPTACLES WITH TENANT PRIOR TO INSTALLATION.

3. EC SHALL INSTALL CEILING MOUNTED DUPLEX RECEPTACLES AND CORD REEL ABOVE TEMPORARY CASH REGISTER STATIONS AND TEMPORARY SEASONAL SHELVING. EC SHALL COORDINATE FINAL LOCATION AND ORIENTATION OF RECEPTACLES WITH TENANT PRIOR TO INTALLATION.

4. EC SHALL INSTALL ONE (1) DUPLEX RECEPTACLE IN CEILING NEAR STOREFRONT ENTRY DOOR FOR SURVEILLANCE EQUIPMENT CENTERED ON ENTERANCE 10'–12' FROM DOOR AND 12'AFF. EC SHALL COORDINATE FINAL LOCATION AND ORIENTATION OF RECEPTACLE WITH TENANT.

5. EC SHALL INSTALL A 5'Wx4'Hx3/4"D PLYWOOD BACK BOARD, PIANTED 'SAFETY RED', IN THE CASH OFFICE (COORDINATE FINAL LOCATION WITH TENANT). tHE FOLLOWING SHALL BE INSTALLED ON THE RED BOARD:

5.A. ONE (1) QUAD OUTLET WHITE. OUTLETS SHALL BE INSTALL SO THAT ONE IS UPSIDE DOWN RELATIVE TO THE OTHER.

5.B. ONE (1) DEDICATED SINGLE–PLEX GROUND ISOLATING ORANGE OUTLET (IG) SHALL BE INSTALLED FOR AUDIO, PA, AND PHONE SYSTEM. EC SHALL COORDINATE FINAL LOCATION AND ORIENTATION OF RECEPTACLE WITH TENANT PRIOR TO INSTALLATION.

5.C. ONE (1) DEDICATED SINGLE–PLEX GROUND ISOLATING ORANGE OUTLET (IG) SHALL BE INSTALL FOR COMPUTER. EC SHALL COORDINATE FINAL LOCATION AND ORIENTATION OF RECEPTACLE WITH TENANT PRIOR TO INSTALLATION.

6. EC SHALL INSTALL INTERIOR AUDIBLE NOTIFICATION DEVICES AT FRONT ENTRY, IN FURNITURE CENTER BY REAR NORTH DOOR, IN CARPET CENTER BY RETAIL–SIDE RECEIVING DOOR, AND INTERIOR NEAR DOCK–SIDE RECEIVING DOOR TO BE ACTIVATED AS DESCRIBED IN THE FOLLOWING SUB–NOTES:

6.A. INTERIOR FRONT ENTRY AUDIBLE NOTIFICATION DEVICE SHALL BE WIRED SO AS TO BE ACTIVATED BY PUSHBUTTONS LOCATED AT EXTERIOR OF FRONT ENTRY, EXTERIOR OF DOCK–SIDE RECEIVING DOOR, INTERIOR BY REAR NORTH DOOR IN FURNITURE CENTER, AND IN CARPET CENTER NEAR RECEIVING DOOR. COORDINATE FINAL LOCATION OF ALL DEVICES WITH TENANT.

6.B. AUDIBLE NOTIFICATION DEVICE LOCATED NEAR DOCK–SIDE RECEIVING DOOR SHALL BE WIRED SO AS TO BE ACTIVATED BY FRONT ENTRY PUSHBUTTON AND RECEIVING PUSHBUTTON.

6.C. AUDIBLE NOTIFICATION DEVICE IN FURNITURE CENTER SHALL BE WIRED SO AS TO BE ACTIVATED BY A PUSH BUTTON LOCATED NEAR INTERIOR OF NORTH–SIDE REAR DOOR.

6.D. AUDIBLE NOTIFICATION DEVICE IN CARPET CENTER SHALL BE WIRED SO AS TO BE ACTIVATED BY A PUSHBUTTON IN CARPET CENTER NEAR RECEIVING DOOR.

(1) EQUIPMENT SCHEDULE

NO.	MECHANICAL EQUIPMENT	CIRCUIT	VOLTS/ PHASE	DISCONNECT	CONDUCTOR
6	BALER	DP–19	208V/3Ø	60/2/40/3R	3–#8, #10G, .75"C
7	FORKLIFT CHARGER	DP–18	208V/1Ø	30/2/30/3R	2–#10, #10G, .75"C
8	EWH–1	DP–22	208V/1Ø	30/2/25	2–#12, #10G, .5"C
9	SCISSOR LIFT	DP–13	208V/1Ø	30/3/25/3R	3–#12, #10G, .5"C

(#) EQUIPMENT NOTES:

1. ELECTRICAL CONTRACTOR SHALL COORDINATE FINAL ELECTRICAL DISCONNECT LOCATION.

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POWER & SYSTEMS PLAN

E-2.1

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[PROPOSED] ROOFTOP PLAN

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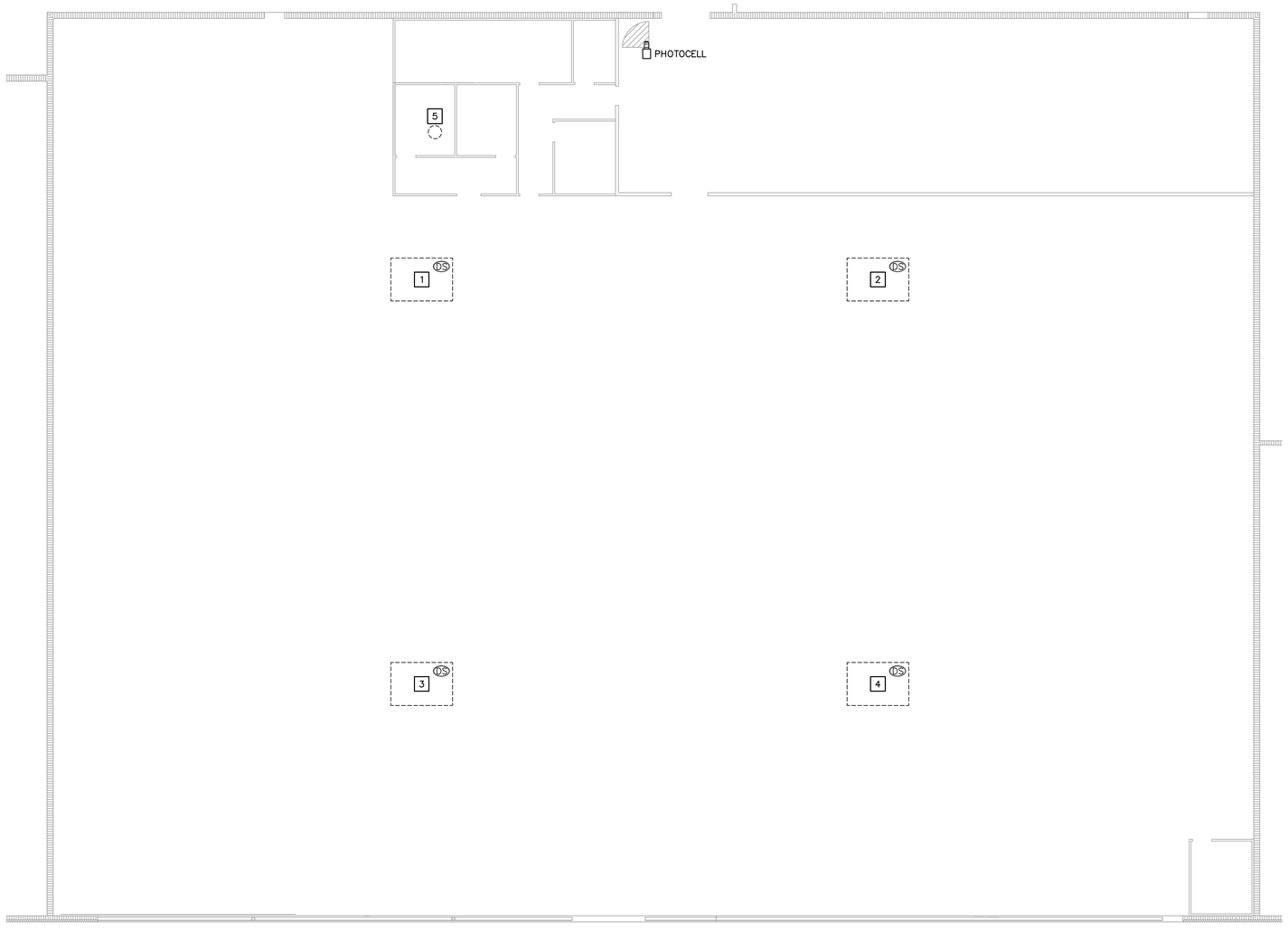

[MECHANICAL] EQUIPMENT SCHEDULE

(1)

NO.	MECHANICAL EQUIPMENT	CIRCUIT	VOLTS/ PHASE	DISCONNECT	CONDUCTOR
1	RTU-1	DP-25	208V/3Ø	200/3/175/3R	3-#2/0, #6G, 2.5"C
2	RTU-2	DP-26	208V/3Ø	200/3/175/3R	3-#2/0, #6G, 2.5"C
3	RTU-3	DP-31	208V/3Ø	200/3/175/3R	3-#2/0, #6G, 2.5"C
4	RTU-4	DP-32	208V/3Ø	200/3/175/3R	3-#2/0, #6G, 2.5"C
5	EF-1	DP-16	120V/1Ø	30/1/10/3R	3-#14, #14G, .5"C

(#) MECHANICAL EQUIPMENT NOTES:

1. COORDINATE FINAL MECHANICAL EQUIPMENT AND LOCATION WITH MECHANICAL PLANS.
2. ELECTRICAL CONTRACTOR SHALL COORDINATE FINAL ELECTRICAL DISCONNECT LOCATION.

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GEORGE MAXWELL POINT IV ★ LICENSED No. 72404 ★ STATE OF FLORIDA ★ PROFESSIONAL ENGINEER

Do Not Scale The Drawings

5th Revision
4th Revision
3rd Revision
2nd Revision
1st Revision
Issue Date October 26, 2021
Project Number 21-033-007

ROOFTOP PLAN

E-2.2

Sheet size: ARCH 'D' (24"x36")

PNL-DP

LOCATION: RECEIVING AREA
FED FROM: UTILITY

120/208 VOLTS/3ø 4 WIRE | 800 AF — AT | ☐ MAIN BKR | ☒ TOP FED | ☒ MAIN LUGS | ☒ SURFACE MTD | ☐ FLUSH MTD | ☐ BOTTOM FED | ☒ FEED THRU LUGS | 42,000 AIC @ 240 VOLTAGE

KVA	LOAD DESCRIPTION	BKR	CKT	A	B	C	CKT	BKR	LOAD DESCRIPTION	KVA
0.0	SPARE	60	1				2	60	SPARE	0.0
			3				4			
			5				6			
0.0	SPARE	60	7				8	20	SPARE	0.0
			9				10	20	SPARE	0.0
			11				12	20	SPARE	0.0
6.3	SCISSOR LIFT	35	13				14	20	SPARE	0.0
			15				16	20	EF-1	0.0
			17				18	30	FORKLIFT CHARGING OUTLET/DISC	3.0
2.0	BALER	35	19				20			
			21				22	30	WATER HEATER	5.0
			23				24			
38.3	RTU-1	175	25				26	175	RTU-2	38.3
			27				28			
			29				30			
38.3	RTU-3	175	31				32	175	RTU-4	38.3
			33				34			
			35				36			
35.5	PNL-L (VIA ATS)	250	37				38	60	SPARE	0.0
			39				40			
			41				42			

CONNECTED LOAD KVA: **205.1** PANEL AMPACITY: **569.4**

PNL-L (EM)

LOCATION: STOCK ROOM
FED FROM: PNL-DP/EM-GEN

120/208 VOLTS/3ø 4 WIRE | 250 AF — AT | ☐ MAIN BKR | ☐ TOP FED | ☒ MAIN LUGS | ☒ SURFACE MTD | ☐ FLUSH MTD | ☒ BOTTOM FED | ☒ FEED THRU LUGS | 42,000 AIC @ 240 VOLTAGE

KVA	LOAD DESCRIPTION	BKR	CKT	A	B	C	CKT	BKR	LOAD DESCRIPTION	KVA
0.2	RETAIL LIGHTING CONTROL POWER	20	1				2	20	REC – FACP	0.5
2.5	LTG – RETAIL AREA 1	20	3				4	20	REC – CASH OFFICE	1.0
			5				6	20	REC – REGISTER 1	0.5
2.5	LTG – RETAIL AREA 2	20	7				8	20	REC – REGISTER 2	0.5
			9				10	20	REC – REGISTER 3	0.5
2.5	LTG – RETAIL AREA 3	20	11				12	20	REC – REGISTER 4	0.5
			13				14	20	REC – REGISTER 5	0.5
2.5	LTG – RETAIL AREA 4	20	15				16	20	REC – EWC	1.0
			17				18	20	REC – MICROWAVE	1.4
2.5	LTG – RETAIL AREA 5	20	19				20	20	REC – BREAK RM SMALL APPLIANCE	1.2
			21				22	20	REC – BREAK RM REFRIGERATOR	1.2
1.9	LTG – RETAIL AREA 6	20	23				24	20	REC – BREAK ROOM VENDING 1	0.8
			25				26	20	REC – BREAK ROOM VENDING 2	0.8
1.5	LTG – STOCKROOM/WAREHOUSE/DOCK	20	27				28	20	REC – BREAK ROOM GENERAL	0.5
			29				30	20	REC – GENERAL RETAIL	1.6
0.7	LTG – M. OFFICE., BRK RM, JANITOR, HALL	20	31				32	20	REC – RETAIL VENDING MACHINE	0.8
1.0	LTG – RESTROOMS	20	33				34	20	REC – RETAIL CLAW MACHINE	0.6
1.0	LTG – CASH OFFICE	20	35				36	20	REC – EXTERIOR	0.7
1.2	LTG – EXTERIOR	20	37				38	20	REC – MANAGER'S OFFICE	0.0
0.0	LTG – EMERGENCY LIGHTING	20	39				40	20	AUTOMATIC DOORS	0.0
0.0	LTG – TILE DISPLAY	20	41				42	20	REC – SEASONAL REGISTERS	0.0
0.0	SPARE	20	43				44	20	REC – SEASONAL DISAPLAY	0.0
0.0	SPARE	20	45				46	20	SPARE	0.0
0.0	SPARE	20	47				48	20	SPARE	0.0
0.0	SPARE	20	49				50	20	SPARE	0.0
0.0	SPARE	20	51				52	20	SPARE	0.0
0.0	SPARE	20	53				54	20	REC – TELECOM BKBD	1.0

CONNECTED LOAD KVA: **35.5** PANEL AMPACITY: **98.5**

BUILDING SERVICE LOAD CALCULATION

OLLIE'S BARGAIN OUTLET

		PHONE NUMBER
PROJECT MANAGER:	BRIAN MITCHELL	(904) 378-8536
PROJECT TYPE:	EXISTING BUILDING	
USE OF BUILDING:	COMMERCIAL	

ELECTRICAL UTILITY SERVICE

☑ Commercial ☐ LG Residential ☐ Overhead
☐ Undergnd Up Pole ☐ Unmetered Main ☑ Underground 1 [EXISTING] No. of Meters

SQUARE FOOTAGE OF BUILDING: 29304

	LIGHTING LOAD (VA):			3 X SQ. FT/1,000=	87.91 KVA
RECEPTACLE QTY:	28	180W DUPLEX	5040		
	3	360W QUAD	1080	RECEPTACLES/1,000=	6.12 KVA
LOADS:				HVAC (38.3KVA x 4 RTUs)	153.20 KVA
				WATER HEATER	5.00 KVA
				EQUIPMENT: BALER, SCISSOR LIFT, FORKLIFT CHARGER	11.00 KVA
				TOTAL:	263.23 KVA
	208 /120 VOLTAGE	3 PHASE		TOTAL:	730.66 A

APPLY FOLLOWING LABEL TO FACE OF ELEC SERVICE EQUIPMENT:

VALUES BELOW ARE BASED ON THE INFINITE BUS CALCULATION FOR A 225KVA TRANSFORMER WITH A 1.5%Z.

Elec Service Equipment Available Fault Current:

24,020 Amperes

Date Calculated: 10-08-21
ERS Engineering, Inc. (904) 777-3089

208/120V/ 3PH/ 4W/ 60HZ
800 Amperes Bus
Short Circuit Current Rating at Utility Company Transformer is 24,020 Amperes RMS SYM

PLANS ARE DESIGNED IN ACCORDANCE WITH THE FOLLOWING CODES:
FLORIDA BUILDING CODE (FBC) & ENERGY CONSERVATION CODE 2020 – 7TH EDITION
NATIONAL ELECTRIC CODE (NEC) – 2017

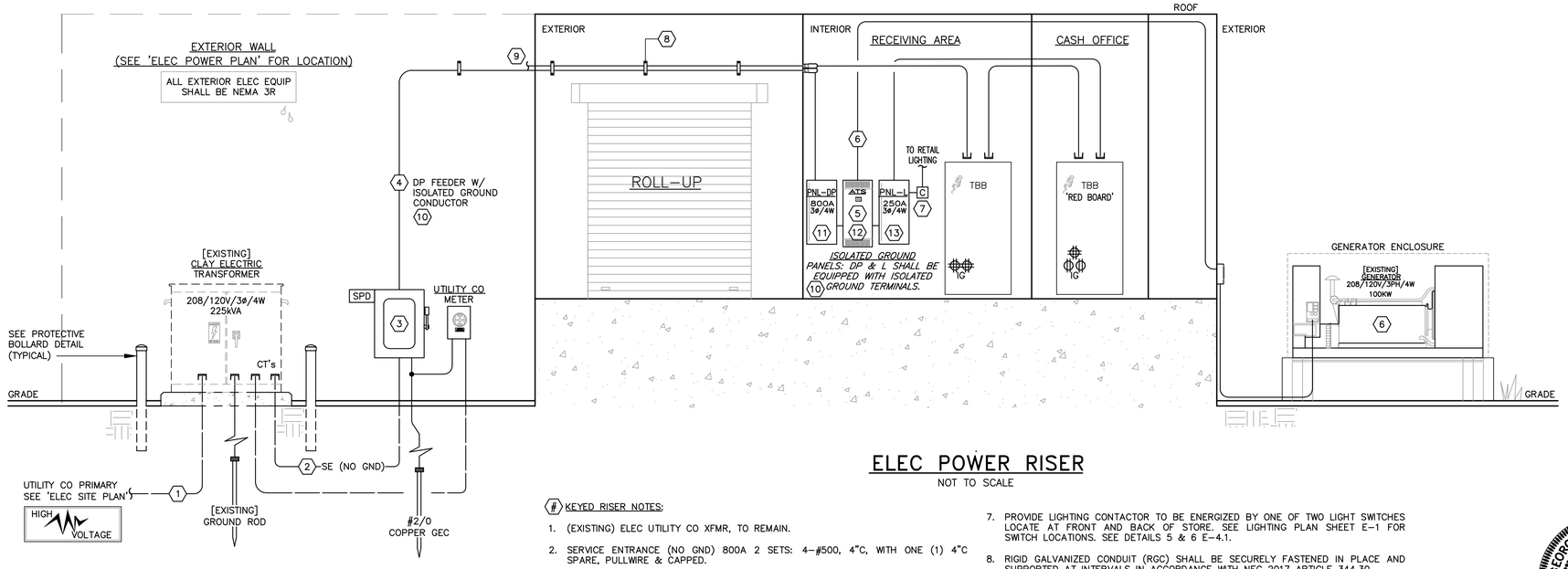
COORDINATION NOTES:

1. PRIOR TO START OF ANY WORK OBTAIN WRITTEN APPROVAL FOR ELEC SITE PLAN & LOCATION OF TRANSFORMER, & CONNECTION POINT PER CLAY ELECTRIC UTILITY CO DIRECTION OF CRAIG WACHUA (386) 961-0106. PROVIDE/VERIFY (2) 4" CONDUITS W/48" RADIUS ELLS AT TRANSFORMER & SERVICE CONNECTION POINT. PROVIDE CONDUIT W/PULLWIRE AND MAINTAIN 48" MINIMUM DEPTH, CALL FOR INSPECTION BEFORE COVERING. LOCATION OF TRANSFORMER, PRIMARY AND SECONDARY CONDUIT/FEEDER(S) ARE CONTINGENT UPON ELEC UTILITY CO APPROVAL. SEE 'POWER RISER' FOR ADDITIONAL REQUIREMENTS.

   [THE BELOW CONNECTION/COORDINATION MAYBE OVERHEAD, GC SHALL DETERMINE]

2. PRIOR TO START OF ANY WORK OBTAIN WRITTEN APPROVAL FOR LOCATION OF SERVICE CONDUITS & CONNECTION POINT PER TELEPHONE UTILITY CO DIRECTION. PROVIDE/VERIFY TELE CO REQUIREMENTS OF (2) 2" CONDUITS RUN OUT PAST PROPERTY LINE, TURNED UP AND CAPPED W/200LB PULLWIRE, SEAL ENDS TO PREVENT GAS/WATER/RODENT INTRUSION AND STAKE AT RIGHT OF WAY, 24" MINIMUM COVER, CALL FOR INSPECTION BEFORE COVERING.

3. PRIOR TO START OF ANY WORK OBTAIN WRITTEN APPROVAL FOR LOCATION OF SERVICE CONDUITS & CONNECTION POINT PER CABLE UTILITY CO DIRECTION. PROVIDE/VERIFY CABLE CO REQUIREMENTS OF (2) 2" CONDUIT RUN OUT PAST PROPERTY LINE, TURNED UP AND CAPPED W/200LB PULLWIRE, SEAL ENDS TO PREVENT GAS/WATER/RODENT INTRUSION, 24" MINIMUM COVER, CALL FOR INSPECTION BEFORE COVERING.



ELEC POWER RISER

NOT TO SCALE

KEYED RISER NOTES:

1. (EXISTING) ELEC UTILITY CO XFMR, TO REMAIN.
2. SERVICE ENTRANCE (NO GND) 800A 2 SETS: 4–#500, 4"C, WITH ONE (1) 4"C SPARE, PULLWIRE & CAPPED.
3. DP MB (800A): 800A ENCLOSED CIRCUIT BREAKER – 208/120V/3ø/4W/N3R/65kAIC WITH A TYPE-1/300kA SURGE PROTECTION DEVICE (SPD)
4. DP FEEDER (800A): 2 SETS: 4–#500, #1/0G #1/0IG, 4"RGC.
5. ATS FROM PNL-DP TO PNL-L VIA 4–#250, #4G, #4IG 2.5"C.
6. [EXISTING] STAND-BY GENERATOR – BEFORE CONNECTING TO THE TENANT'S ATS, GC/EC SHALL DETERMINE IF ITS OPERATIONAL. ITS INCUMBENT ON THE EC TO EVALUATE THE CONDITION AND COORDINATE ANY SERVICES REQUIRED TO REFURBISH THE GENERATOR IN ORDER TO PROVIDE AN OPERATIONAL GENERATOR. ONCE OPERATIONAL EC SHALL CONNECT TO PNL-L (EM) VIA ATS WITH 4–#250, #4G, 2.5"C.
7. PROVIDE LIGHTING CONTACTOR TO BE ENERGIZED BY ONE OF TWO LIGHT SWITCHES LOCATE AT FRONT AND BACK OF STORE. SEE LIGHTING PLAN SHEET E-1 FOR SWITCH LOCATIONS. SEE DETAILS 5 & 6 E-4.1.
8. RIGID GALVANIZED CONDUIT (RGC) SHALL BE SECURELY FASTENED IN PLACE AND SUPPORTED AT INTERVALS IN ACCORDANCE WITH NEC 2017 ARTICLE 344.30.
9. EXISTING TELCOM SERVICE ALONG THE REAR OF THE BUILDING APPEAR TO BE ENTERING THE BUILDING OVERHEAD. GC SHALL COORDINATE WITH LOCAL TELECOM SERVICE PROVIDERS TO MEET THE REQUIREMENTS OF OLLIE'S. SEE COORDINATION NOTES THIS SHEET.
10. ISOLATED GROUND CONDUCTOR SHALL BE INSULATED A GREEN/YELLOW CONDUCTOR.
11. PANEL-DP: 800A MLO PANELBOARD – 208/120V/3ø/4W/N1/42k AIC WITH ISOLATED GROUND TERMINAL.
12. ATS: 250A/3–POLE/N1/42k MIN AIC.
13. PANEL-L: 250A MLO PANELBOARD – 208/120V/3ø/4W/N1/42k AIC WITH ISOLATED GROUND TERMINAL.

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GEORGE MAXWELL POINT IV LICENSED No. 72404 STATE OF FLORIDA PROFESSIONAL ENGINEER

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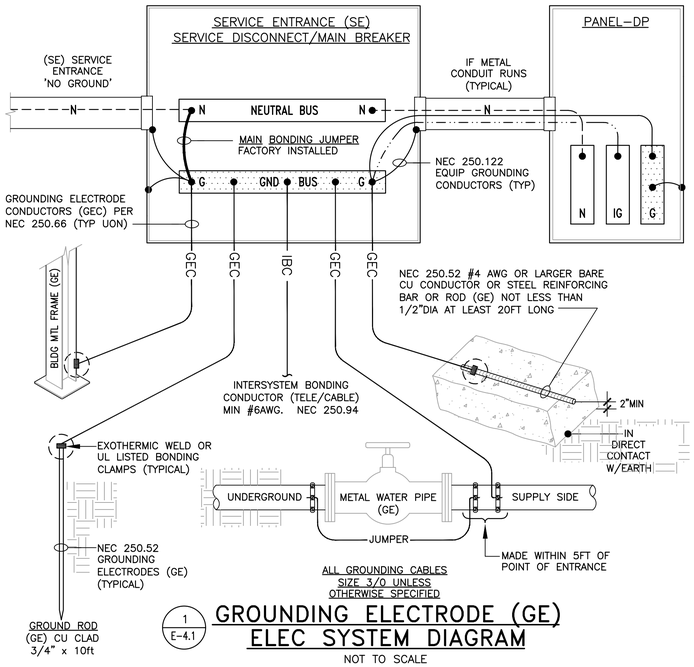
PANEL SCHEDULES & POWER RISER

E-3

Sheet size: ARCH "D" (24"x36")

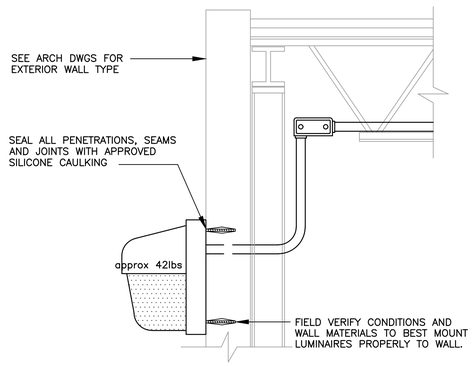
SERVICE GROUNDING AT MAIN



1 / E-4.1 **GROUNDING ELECTRODE (GE) ELEC SYSTEM DIAGRAM**

NOT TO SCALE

ALL NEUTRAL BUSES TO BE ISOLATED. PROVIDE SEPARATE GROUND BUS.

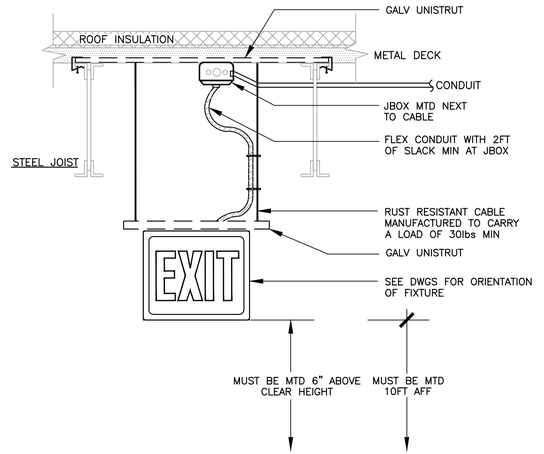


2 / E-4.1 **EXTERIOR BUILDING MOUNTED WALL-PACK FIXTURE DETAIL**

NOT TO SCALE

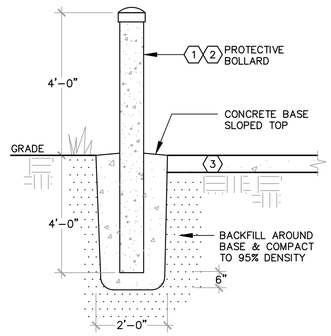
(#) WALLPACK DETAIL NOTES:

1. COORDINATE EXACT LOCATION VERTICALLY AND HORIZONTALLY WITH ARCHITECTURAL ELEVATIONS AND ANY (EXISTING) LIGHTING.



3 / E-4.1 **SUSPENDED EXIT SIGN MTG DETAIL**

NOT TO SCALE

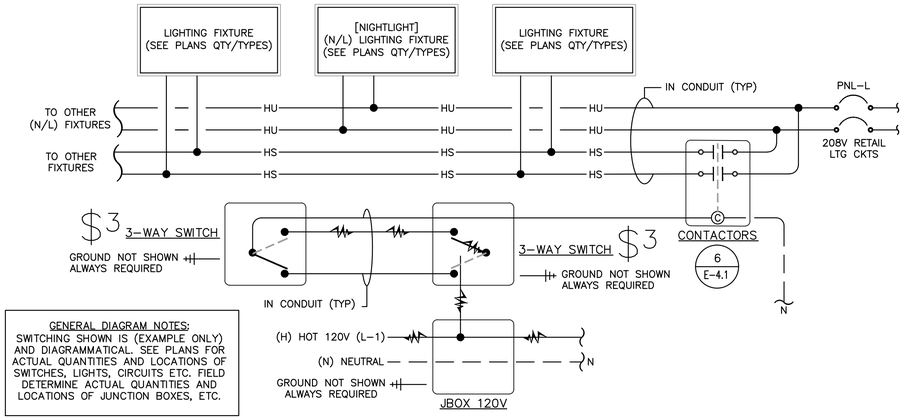


4 / E-4.1 **PROTECTIVE BOLLARD DETAIL**

NOT TO SCALE

(#) BOLLARD DETAIL NOTES:

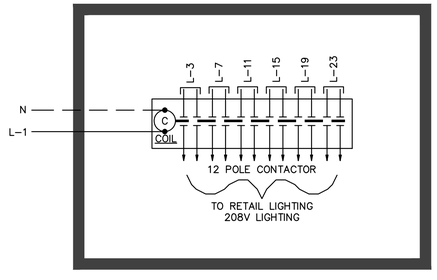
1. PROTECTIVE 6" DIAMETER GALVANIZED STEEL POST BOLLARD SHALL BE CONCRETE FILLED AND CAP. THEN PAINT SAFETY FDOT YELLOW WITH 2 COATS.
2. FIELD VERIFY CONDITIONS (CONCRETE, SOD, ETC) AND INSTALL BOLLARD AS REQUIRED.



GENERAL DIAGRAM NOTES:
SWITCHING SHOWN IS (EXAMPLE ONLY) AND DIAGRAMMATICAL. SEE PLANS FOR ACTUAL QUANTITIES AND LOCATIONS OF SWITCHES, LIGHTS, CIRCUITS ETC. FIELD DETERMINE ACTUAL QUANTITIES AND LOCATIONS OF JUNCTION BOXES, ETC.

5 / E-4.1 **208V LGT CONTACTOR SWITCHING DIAGRAM**

NOT TO SCALE

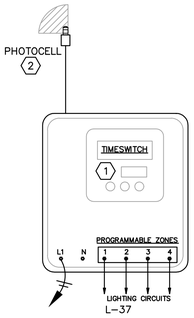


6 / E-4.1 **LIGHTING CONTACTOR DIAGRAM**

NOT TO SCALE

(#) CONTACTOR DIAGRAM NOTES:

1. LIGHTING CONTACTOR: 12 POLES WITH 120V RELAY CONTROL VOLTAGE.



7 / E-4.1 **TIMESWITCH DIAGRAM**

NOT TO SCALE

(#) DIAGRAM NOTES:

1. PROVIDE FOUR ZONE PROGRAMMABLE TIMESWITCH TYPE INTERMATIC #ET70415CR OR APPROVED EQUAL. TIMESWITCH SHALL BE PROGRAMMED FOR 10 HOURS OF OPERATION BEFORE AUTOMATIC SHUT-OFF. OWNER TO VERIFY TIME SCHEDULE (EXAMPLE TIME: 8:00PM - 6:00AM)
2. PROGRAM OVERRIDE TO TURN BUILDING LIGHTS ON WHEN PHOTOCELL SEES DARKNESS.

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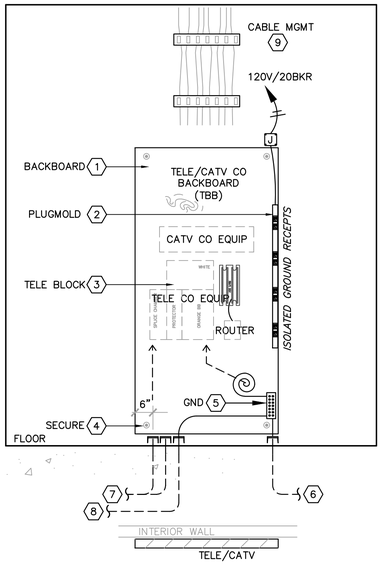
DETAILS

E-4.1



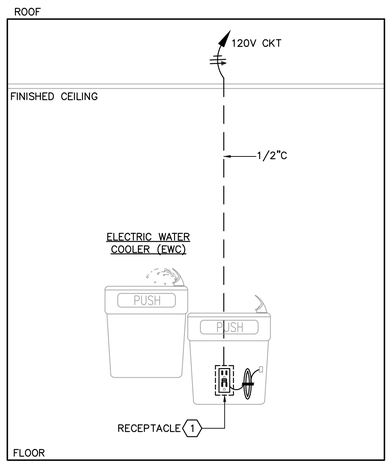
1 / E-4.2

TELECOM (TBB/CATV) BACKBOARDS RISER

NOT TO SCALE

(#) BACKBOARD RISER NOTES:

1. (TBB) AND (CATV) BACKBOARDS SHALL BE PLYWOOD 4'x8'x3/4" W/FIRE RETARDANT PAINT ON ALL 6 SIDES.
2. PROVIDE JBOX AND HARDWIRE TO NONMETALLIC PLUGMOLD RACEWAY 4FT WITH 4 DUPLEX RECEPTS, WIREMOLD #NM20GB412 OR APPROVED EQUAL.
3. TELECOM COMPANIES EQUIPMENT.
4. SECURE TO WALL WITH ANCHOR BOLT & 1" WASHER (TYP).
5. GROUNDING BAR WITH 5FT COILED #6AWG GREEN INSULATED CONDUCTOR IN FOR COMMUNICATIONS CO CONNECTION TO GROUND.
6. BOND #6AWG GREEN INSULATED CONDUCTOR IN 1/2"C TO SERVICE ENTRANCE ELEC SYSTEM GROUND.
7. 2– 4"PVC TO TELEPHONE CO SERVICE CONNECTION POINT. SEE 'ELEC SITE PLAN'.
8. 1– 4"PVC TO CABLE CO SERVICE CONNECTION POINT. SEE 'ELEC SITE PLAN'.
9. PROVIDE CABLE MANAGEMENT AS REQUIRED.



EWC

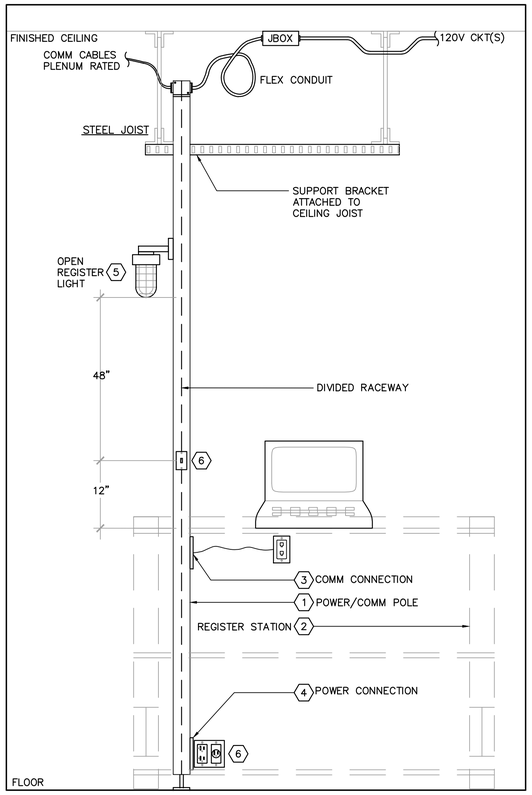
4 / E-4.2

ELECTRIC WATER COOLER (EWC) RECEPTACLE MOUNTING DETAIL

NOT TO SCALE

(#) EWC DETAIL NOTES:

1. PRIOR TO ROUGH–IN FIELD VERIFY & COORDINATE EWC LOCATION/ HEIGHT TO BE INSTALLED. PROVIDE GFI RECEPTACLE IN LOCATION TO BE CONCEALED BEHIND EQUIPMENT COVER.



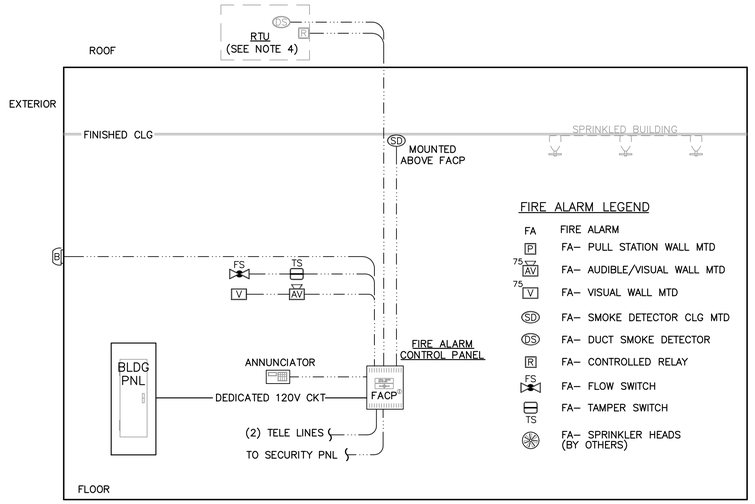
2 / E-4.2 PP

TELECOM/PWR POLE DETAIL

NOT TO SCALE

(#) DETAIL NOTES:

1. PROVIDE PWR/COMM POLE WIREMOLD #25DTC OR APPROVED EQUAL. NOTE THAT FIELD VERIFICATION OF CEILING HEIGHT SHALL DICTATE COMM/PWR POLE DIMENSION.
2. CASH REGISTER STATION. COORDINATE DEVICE AND FIXTURE LOCATIONS WITH TENANT.
3. DATA TO BE ROUTED TO REGISTER DATA RECEPTACLE. EC SHALL COORDINATE EXACT ROUTING AND RECEPTACLE LOCATION WITH TENANT PRIOR TO INSTALLATION. POWER POLE– COMMUNICATIONS WIREWAY CAPACITY IS A MAXIMUM OF (30) CATEGORY 6 CABLES. SECURE WITH SPLIT SLEEVE CORRUGATED TUBING.
4. POWER POLE– POWER WIREWAY CAPACITY IS A MAXIMUM OF (16) #10AWG CONDUCTORS. PROVIDE ELBOWS/FITTINGS/FLEX CONDUIT AS REQUIRED.
5. EC SHALL MOUNT VAPORTIGHT (FREEZER) LIGHTING FIXTURE TO POWER POLE 48" ABOVE COUNTER TOP. COORDINATE FINAL FIXTURE TYPE, AND ORIENTATION WITH TENANT PRIOR TO INSTALLATION.
6. EC SHALL INTALL SWITCH FOR OPIN REGISTER LIGHT 12" ABOVE COUNTER TOP.



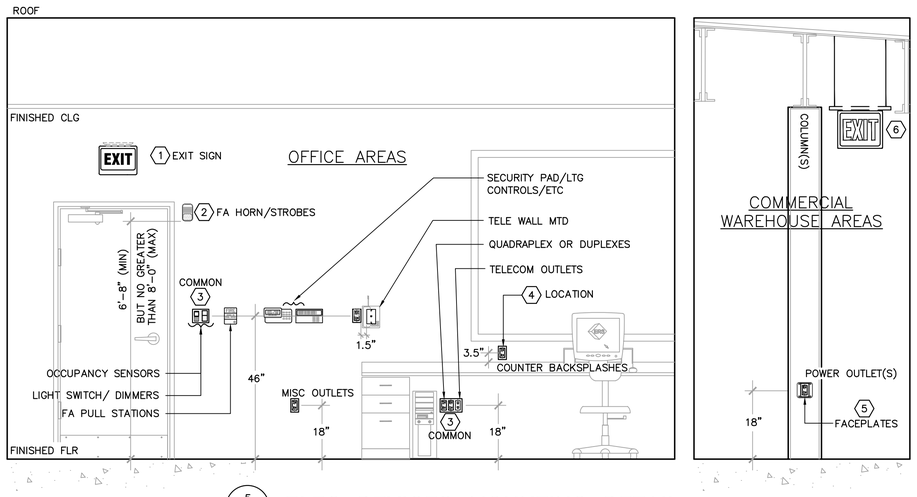
3 / E-4.2

FIRE ALARM CONTROL PANEL RISER SINGLE–STORY, NO ELEVATOR, SPRINKLED BLDG

NOT TO SCALE

FIRE ALARM RISER NOTES:

1. FIRE ALARM RISER IS DIAGRAMMATICAL ONLY. MONITORED DEVICES SHOWN ON DRAWINGS ARE A MINIMUM REQUIREMENT. FIRE MARSHALL HAVING JURISDICTION SHALL DICTATE FINAL QUANTITIES AND LOCATIONS OF ALL DEVICES. MAKE A PROVISION FOR ADDITIONAL DEVICES.
2. NFPA 72 : FACP EQUIPMENT SHALL BE CONSTRUCTED AND INSTALLED IN CONFORMITY WITH THIS CODE SHALL BE LISTED FOR THE PURPOSE FOR WHICH IT IS USED. EQUIPMENT SHALL BE DESIGNED SO THAT IT IS CAPABLE OF PERFORMING ITS INTENDED FUNCTIONS AT CODE SPECIFIED VOLTAGE/TEMPERATURE/HUMIDITY. FIRE ALARM SYSTEM SHALL BE ADDRESSABLE WITH CLASS A PATHWAY AND A SURVIVABILITY OF 1.
3. COORDINATE FINAL LOCATION & QUANTITY OF TAMPER & FLOW SWITCHES WITH FIRE SPRINKLER PROTECTION DRAWINGS.
4. NFPA 90A.6.4 HVAC UNITS DUCT SMOKE DETECTORS (24V) SHALL BE PROVIDED TO AND INSTALLED BY MECH CONTRACTOR WITH REMOTE INDICATOR LIGHT AND RESET INDEPENDENT OF FIRE SPRINKLER COMMUNICATOR. PROVIDE MECH CONTRACTOR WITH FA RELAY TO SHUT UNIT DOWN IF FIRE ALARM PANEL DETECTS AN ALARM IN ANOTHER PORTION OF THE BUILDING SYSTEM.
5. ALARM AUDIBLE DEVICE SHALL BE LOCATED ON STREET SIDE OF BLDG & MOUNTED 8FT AFG.
6. TO OPERATIONAL INTEGRITY, THE FIRE ALARM SYSTEM SHALL HAVE AN APPROVED MAINTENANCE AND TESTING PROGRAM COMPLYING WITH THE APPLICABLE REQUIREMENTS.



5 / E-4.2

ELEC DEVICES MOUNTING DETAIL

NOT TO SCALE

(#) DEVICE MTG RISER NOTES:

1. EXIT SIGN WALL/CEILING MOUNTING ABOVE DOORS SHALL BE INSTALLED NEAR TOP OF DOORS TO MAXIMIZE VIEWING, FIELD VERIFY FINAL DOOR/CEILING HEIGHTS AND EXIT SIGN INSTALLATION AND PROVIDE AS REQUIRED PER NFPA.
2. INSTALL ALL HORN/STROBE FA DEVICES TIGHT TO DOOR JAMBS ABOVE SWITCH(ES).
3. WHERE LIGHT SWITCH(ES) OR MULTI–OUTLETS (TELE/DATA/PWR) ARE LOCATED NEXT TO EACH OTHER THEY SHALL BE GANGED & SHARE A COMMON FACEPLATE (TYP). ALL DEVICE FACEPLATES SHALL BE INSTALLED PLUMB AND SQUARE TO BUILDING LINES. ALL OUT–OF–PLUMB (OR) OUT–OF–SQUARE DEVICES SHALL BE REWORKED AT NO EXPENSE TO OWNER.
4. ALL ABOVE COUNTER OUTLETS SHALL BE INSTALLED ABOVE BACKSPLASHES. REFER TO ARCH ELEVATIONS/MILLWORK PLANS AND COORDINATE LOCATION WITH ALL OTHER DISCIPLINES PRIOR TO ROUGH–IN.
5. ALL 'COMMERCIAL WAREHOUSE AREAS' REQUIRE STAINLESS STEEL METAL FACEPLATES FOR POWER/TELECOM OUTLETS THAT ARE NOT INSIDE CABINETRY.
6. SUSPENDED EXIT SIGN SHALL BE MOUNTED 10'AFF.

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Do Not Scale The Drawings

5th Revision	
4th Revision	
3rd Revision	
2nd Revision	
1st Revision	
Issue Date	October 26, 2021
Project Number	21-033-007

DETAILS

E-4.2

Sheet size: ARCH "D" (24"x36")

26000 ELECTRICAL SPECIFICATIONS

PART I – GENERAL

1.01 REQUIREMENTS

A. THE GENERAL REQUIREMENTS (PROVIDED BY THE OWNER OR GENERAL CONTRACTOR) ARE HEREBY MADE A PART OF THIS SECTION AS IF FULLY REPEATED HEREIN.

B. INFORMATION CONTAINED IN THIS ELECTRICAL MATERIALS AND METHODS SECTION:
   1. AMENDS, SUPPLEMENTS OR CLARIFIES REQUIREMENTS ESTABLISHED IN THE GENERAL REQUIREMENTS. IN CASES OF CONFLICT, REQUIREMENTS OF THIS ELECTRICAL MATERIALS AND METHODS SECTION SHALL GOVERN.
   2. APPLIES TO ALL TECHNICAL SECTIONS WITHIN DIVISION 26, WITH THE SAME FORCE AND EFFECT AS IF INCLUDED INDIVIDUALLY AS PART OF EACH SECTION.

C. THE WORK INCLUDED UNDER DIVISION 26 OF THE SPECIFICATIONS SHALL INCLUDE COMPLETE ELECTRICAL SYSTEMS AS SHOWN OR IMPLIED ON THE DRAWINGS AND AS SPECIFIED HEREIN. PROVIDE ALL SUPERVISION, LABOR, MATERIALS, EQUIPMENT, MACHINERY, AND OTHER ITEMS NECESSARY TO COMPLETE THE ELECTRICAL SYSTEM.

D. PRIOR TO START OF ANY WORK, CONTRACTOR SHALL MEET WITH THE ARCHITECT/OWNER TO DETERMINE THAT NO QUESTIONS REMAIN CONCERNING THE INTENT OF THE DRAWINGS OR SPECIFICATIONS AND RESOLVE ANY QUESTIONS CONCERNING THE PROJECT. NO WORK SHALL BEGIN PRIOR TO THIS MEETING. THE ARCHITECT/OWNER SHALL SET THE DATE, TIME, AND PLACE FOR MEETING.

1.02 CODES, ORDINANCES AND PERMITS

A. THE NATIONAL ELECTRICAL CODE AND OSHA SHALL ESTABLISH THE MINIMUM REQUIREMENTS FOR INSTALLATION, BUT IN ADDITION, ALL WORK SHALL ALSO COMPLY WITH FEDERAL, LOCAL, STATE, COUNTY OR MUNICIPAL CODE REQUIREMENTS. OBTAIN INFORMATION ON ALL CODES, RESTRICTIONS AND REQUIREMENTS. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, SUCH CONFLICT SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR ASSISTANCE IN RESOLUTION. EXTRA PAYMENT WILL NOT BE ALLOWED FOR WORK REQUIRED BY CODE RESTRICTIONS EXCEPT THROUGH WRITTEN AGREEMENT WITH THE CONTRACTOR.

B. PLANS SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC) 2017 AND FLORIDA BUILDING CODE (FBC) 2020 7TH EDITION.

C. APPLY FOR, OBTAIN AND PAY FOR ALL REQUIRED LICENSES, PERMITS AND INSPECTIONS CERTIFICATES. FINAL PAYMENT IS CONTINGENT UPON DELIVERY OF SUCH CERTIFICATES TO THE ENGINEER OR PROJECT MANAGER.

D. WHERE APPLICABLE, ALL MATERIALS AND EQUIPMENT SHALL BARE THE UL SEAL. CERTIFICATES TO THIS EFFECT SHALL BE FURNISHED TO THE ENGINEER UPON REQUEST.

1.03 SITE INSPECTION

A. VISIT THE SITE AND THOROUGHLY INSPECT EXISTING CONDITIONS AFFECTING THE WORK. ASSUME RESPONSIBILITY FOR MEETING ALL EXISTING CONDITIONS INCLUDING ACCESS AND WORK SPACE LIMITATIONS.

B. ALL WORK SHALL BE COMPLETED WHILE THE OWNER IS OCCUPYING THIS FACILITY. CONTRACTOR SHALL OUTLINE HIS METHODS AND PROCEDURES WHICH WILL ALLOW THE OWNER TO CONTINUE TO MAINTAIN FACILITY FUNCTIONS DURING EXECUTION OF THIS WORK. CONTRACTOR SHALL SCHEDULE POWER OUTAGE REQUIRED FOR BUILDING ELECTRICAL SYSTEM ADDITION INDICATED ON DRAWINGS WITH BOTH OWNER/ARCHITECT. CONTRACTOR SHALL PROVIDE ALL NECESSARY WORK REQUIRED FOR ELECTRICAL SYSTEM ADDITION AFTER NORMAL BUSINESS HOURS (EVENING OR WEEKENDS).

1.04 DRAWINGS AND SPECIFICATIONS

A. FOR CONSTRUCTION DETAILS, ELEVATIONS, ETC., ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER DIVISION 26 DRAWINGS (ELECTRICAL DRAWINGS). IT IS THE INTENT OF THE ELECTRICAL DRAWINGS TO SHOW THE GENERAL ARRANGEMENT OF THE SYSTEM AND NOT TO INDICATE ALL OFFSETS, FITTINGS AND ACCESSORIES WHICH MAY BE REQUIRED, NOR TO SHOW EXACT LOCATIONS OF CONDUIT, LUMINAIRES OR EQUIPMENT EXCEPT WHERE ACTUAL DIMENSIONS ARE GIVEN. IT IS RECOMMENDED THAT THE ELECTRICAL DETAILS BE CLOSELY REVIEWED IN ORDER TO BECOME FAMILIAR WITH SPECIFIC WIRING DIAGRAMS, INSTALLATION METHODS AND REQUIREMENTS.

B. IT IS REQUIRED FOR THE ELECTRICAL CONTRACTOR TO BECOME COMPLETELY FAMILIAR WITH THE DRAWINGS INCLUDING THE ELECTRICAL LEGEND, DETAILS, ALL NOTES, ETC, IN ADDITION TO THE DIVISION 26 SPECIFICATIONS.

C. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO CALL FOR FINISHED WORK, TESTED, AND READY FOR OPERATION AND IN COMPLETE CONFORMANCE WITH ALL APPLICABLE CODES, RULES AND REGULATIONS. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE VARIOUS SYSTEMS, SHALL BE INCLUDED IN THE WORK AND THE SAME AS IF SPECIFIED, OR SHOWN ON THE DRAWINGS.

D. THE WORK DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS SHALL NOT BE ALTERED IN ANY WAY. REQUESTS TO DEPART FROM THE INTENDED DESIGN SHALL BE SUBMITTED IN DETAIL TO THE ENGINEER FOR APPROVAL, PRIOR TO THE COMMENCEMENT OF SUCH WORK. ALL REVISIONS SHALL BE APPROVED IN WRITING BY THE ENGINEER.

E. THE ELECTRICAL CONTRACTOR SHALL PROVIDE PERSONNEL, TOOLS AND EQUIPMENT (POWERED LIFTS, ETC) TO ASSIST AS NECESSARY IN THE PERIODIC INSPECTION OF THIS PROJECT BY THE ENGINEER WHILE UNDER CONSTRUCTION AND AT PROJECT COMPLETION.

1.05 RECORD DRAWINGS

A. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A CURRENT SET OF ELECTRICAL DRAWINGS AND SPECIFICATIONS TO BE USED FOR CONSTRUCTION PROGRESS REVIEW AND REVISIONS AT THE JOB SITE. FIELD MARKS SHALL BE INDICATED ON THESE PLANS. UPON COMPLETION OF THE PROJECT, THESE FIELD PLANS WILL BE PROVIDED TO THE ENGINEER. THE ENGINEER SHALL PRODUCE A SET OF "RECORD DRAWINGS" BASED ON CONTRACTORS FIELD NOTES.

1.06 SUBMITTAL DATA

SUBMITTALS SHALL BE FURNISHED WITH MANUFACTURERS DATA SHEETS IN A SUITABLE BINDER AND WITH EACH ITEM CLEARLY MARKED SO AS TO DISTINGUISH WHICH MODEL NUMBER, OPTIONS ETC, ARE BEING SUBMITTED FOR EACH PIECE OF EQUIPMENT AND EACH DEVICE. INCLUDE NAME OR DESIGNATION OF EACH PIECE OF EQUIPMENT ON EACH RELATED SHEET, SUCH AS "PNL-H1" OR "LUMINAIRE TYPE-A". SUBMITTALS WHICH ARE NOT MARKED IN THIS WAY WILL BE DISAPPROVED.

SUBMITTAL DATA SHALL INCLUDE, BUT NOT BE LIMITED TO ALL EQUIPMENT AND MATERIAL REQUIRED TO COMPLETE THE PROJECT AS DESCRIBED HEREIN:

A. PANELBOARDS:
   1. COMPLETE DIMENSIONAL DATA, WEIGHTS AND ELEVATIONS.
   2. SHOP DRAWINGS INCLUDING WIRING DIAGRAMS, BREAKER/FUSE ARRANGEMENT, NAMEPLATE SCHEDULE, LUG SIZES, BUSBAR ARRANGEMENT.
   3. EQUIPMENT RATINGS INCLUDING BRACING, VOLTAGE LEVELS, MAXIMUM DEVICE CAPABILITY.
   4. MISCELLANEOUS DATA FOR GFI EQUIPMENT, CT ENCLOSURES, SERVICE PROTECTION, ETC.
   5. INSTALLATION AND MAINTENANCE MANUALS.

B. BREAKERS AND FUSES:
   1. TIME/CURRENT CURVES ON LOG-LOG PAPER.
   2. I2 T LET-THRU CURVES ON LOG-LOG PAPER.
   3. DIMENSIONAL DATA.
   4. FOR ADJUSTABLE TRIP BREAKERS INCLUDE ALL DATA ON SETTINGS, RATING PLUGS, GFI SETTINGS, ETC.

C. CABLE/WIRE:
   1. DIMENSIONAL DATA, WEIGHTS.
   2. PERFORMANCE RATINGS AND DAMAGE CURVES ON LOG-LOG PAPER.

D. CONDUIT:
   1. DIMENSIONAL DATA AND WEIGHTS (INCLUDING FITTINGS).

E. SWITCHES, RECEPTACLES, BOXES:
   1. GENERAL MANUFACTURER'S DATA. (DIMENSIONS, RATINGS, ETC.)

F. LUMINAIRES:
   1. COMPLETE DIMENSIONAL INFORMATION AND WEIGHTS.
   2. PHOTOMETRIC DATA PERFORMED BY AN APPROVED INDEPENDENT TESTING LABORATORY.
   3. MANUFACTURER'S LAMP DATA INCLUDING INITIAL AND MEAN LUMENS, CRI, RATED LIFE, ETC.

G. MISCELLANEOUS: TIME SWITCHES, CONTACTORS, & PHOTO CELLS

1.07 ELECTRICAL – MECHANICAL COORDINATION

A. THE ELECTRICAL CONTRACTOR SHALL FURNISH, SET AND WIRE ALL DISCONNECT DEVICES AND STARTERS AS REQUIRED FOR ALL EQUIPMENT EXCEPT FOR THOSE ITEMS FURNISHED WITH INTEGRAL DISCONNECT DEVICES AND/OR STARTERS.

B. DETAILED INFORMATION WILL BE FURNISHED TO THE ELECTRICAL CONTRACTOR AND ELECTRICAL ENGINEER ON POWER AND CONTROL WIRING REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT BY THE MECHANICAL ENGINEER AND MECHANICAL CONTRACTOR. THIS SHALL INCLUDE ALL DIAGRAMS AND INSTRUCTIONS NECESSARY FOR THE ELECTRICAL CONTRACTOR TO MAKE CONNECTIONS PROPERLY.

C. UNLESS SPECIFICALLY NOTED, ALL LOW VOLTAGE WIRING AND DEVICES WILL BE INSTALLED BY THE MECHANICAL CONTRACTOR.

1.08 PROTECTION

A. PROTECT ALL MATERIALS AND EQUIPMENT AGAINST DAMAGE AND VANDALISM DURING CONSTRUCTION. REPLACE ANY DAMAGED MATERIAL OR EQUIPMENT AND PLACE THE SYSTEMS IN PERFECT WORKING CONDITION.

1.11 CATALOG, OPERATION AND MAINTENANCE DATA

A. PROVIDE SIX (6) COMPLETE SETS OF A COMPILATION OF CATALOG DATA FOR EACH MANUFACTURED ITEM OF EQUIPMENT USED IN THE ELECTRICAL WORK. IN ADDITION TO THE CATALOG DATA, PROVIDE INSTALLATION, OPERATING AND MAINTENANCE MANUALS, SPARE PARTS LISTS, ETC., FOR ALL MAJOR EQUIPMENT SHALL BE SUBMITTED.

B. IT IS THE INTENT OF THIS CATALOG, OPERATION AND MAINTENANCE DATA TO PROVIDE THE OWNER WITH COMPLETE INSTRUCTIONS ON THE PROPER OPERATION AND USE, LUBRICATION, AND PERIODIC MAINTENANCE, TOGETHER WITH THE SOURCE OF REPLACEMENT PARTS AND SERVICE, FOR THE ITEMS OF EQUIPMENT COVERED.

PART II – PRODUCTS

2.01 MATERIALS

A. ALL MATERIALS USED IN THIS PROJECT SHALL BE NEW UNLESS OTHERWISE NOTED AND LISTED BY UNDERWRITER'S LABORATORIES, INC., AS CONFORMING TO ITS STANDARDS WHERE SUCH STANDARDS HAVE BEEN ESTABLISHED. THESE MATERIALS SHALL BARE THE UL LABEL.

2.02 DISTRIBUTION EQUIPMENT

A. MAIN BREAKER: SHALL BE DEAD FRONT, SAFETY TYPE, TOTALLY ENCLOSED IN A CODE GAUGE ENAMELED STEEL CABINET, RATED NEMA-3R, AND APPROVED FOR USE AS SERVICE ENTRANCE EQUIPMENT. ENCLOSURE SHALL BE PROVIDED WITH "SEALING" PROVISIONS APPROVED BY THE UTILITY. CIRCUIT BREAKERS SHALL BE BOLT-ON, MOLDED-CASE THERMAL-MAGNETIC OF SIZE AND TYPE AS SHOWN ON THE DRAWINGS. MINIMUM SYMMETRICAL INTERRUPTING CAPACITY SHALL BE AS INDICATED ON THE DRAWINGS. MAIN BREAKER SHALL BE PROVIDED WITH ADJUSTABLE GROUND FAULT TRIPPING. BUSSING SHALL BE COPPER. PROVIDE ISOLATED NEUTRAL BUS AND A SEPARATE GROUND BUS.

B. PANELBOARDS: SHALL BE NEMA 1 WITH MOLDED CASE CIRCUIT BREAKER TYPE WITH COMPLETELY DEAD FRONTS ENCLOSED IN FLUSH OR SURFACE MOUNTED, CODE GAUGE, GALVANIZED SHEET STEEL CABINETS WITH ADEQUATE WIRING GUTTERS TOP, BOTTOM, AND SIDES. THE FRONT TRIM (DOOR-IN-DOOR CONSTRUCTION) SHALL CONTAIN A HINGED DOOR WITH FLUSH MOUNTED KEYED LOCK AND CATCH. THE DOOR SHALL BE PROVIDED WITH A PLASTIC ENCLOSED CIRCUIT DIRECTORY. UPON COMPLETION OF THE INSTALLATION THE DIRECTORY SHALL BE FILLED IN WITH VERY NEAT AND LEGIBLE TEXT INDICATING USAGE AND LOCATION OF CIRCUITS AS INDICATED ON THE DRAWINGS. CIRCUIT BREAKERS SHALL BE SINGLE OR MULTI-POLE MOLDED CASE, OF COMMON HANDLE-COMMON TRIP WITHOUT HANDLE TIES, THERMAL MAGNETIC, QUICK-MAKE, QUICK-BREAK FOR MANUAL AND AUTOMATIC OPERATION. EACH CIRCUIT BREAKER SHALL BE BOLTED OR SCREWED TO BUSSING. BUSSING SHALL BE COPPER. PROVIDE ISOLATED NEUTRAL BUS AND A SEPARATE GROUND BUS.

2.03 SAFETY SWITCHES

A. SAFETY SWITCHES SHALL BE QUICK-MAKE, QUICK-BREAK, TYPE-GD IN GENERAL SHEET STEEL ENCLOSURE, EXCEPT AS REQUIRED FOR RAIN-TIGHT NEMA-3R INSTALLATIONS WITH DOOR COVER INTERLOCK. PROVIDE FUSES WHEN NOTED. PROVIDE GROUND LUG IN ALL SWITCHES. PROVIDE ISOLATED NEUTRAL LUG FOR (4) WIRE CIRCUITS.

2.04 CONDUIT

A. CONDUIT MAY BE GALVANIZED RIGID STEEL CONDUIT CONDUIT, RIGID ALUMINUM CONDUIT, OR ELECTRICAL METALLIC TUBING EXCEPT AS OTHERWISE SPECIFIED HEREIN.

B. RIGID GALVANIZED STEEL OR INTERMEDIATE METAL CONDUIT SHALL BE USED ON BUILDING EXTERIOR WHERE EXPOSED TO WEATHER. RIGID CONDUIT SHALL BE USED IN ALL LOCATIONS WHERE RACEWAY IS EXPOSED TO DAMAGE.

C. RIGID NONMETALLIC CONDUIT (SCHEDULE 40 PVC) OR FLEXIBLE FLEXIBLE HIGH DENSITY POLYETHELENE (HDPE) SHALL BE USED UNDERGROUND AND WHERE IMBEDDED IN CONCRETE.

D. LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE USED FOR FINAL CONNECTIONS TO MOTORS, APPLIANCES AND VIBRATING EQUIPMENT.

E. ELECTRICAL METALLIC TUBING MAY BE UTILIZED IN ALL INTERIOR LOCATIONS. COMPRESSION FITTINGS WILL BE UTILIZED FOR TUBING IN 1-1/2" TRADE SIZE AND SMALLER, DOUBLE SET SCREW TYPE FOR LARGER TUBING.

2.05 CONDUCTORS

A. ALL CONDUCTORS SHALL BE COPPER, SOLID OR STRANDED FOR #12 AND #10AWG, STRANDED FOR 8AWG AND LARGER UNLESS OTHERWISE NOTED.

B. CONDUCTORS SHALL NOT BE SMALLER THAN #12 AWG FOR FEEDER AND/OR BRANCH CIRCUIT WIRING.

C. EXCEPT WHERE OTHERWISE NOTED ALL CONDUCTORS FOR CONTROL WIRING SHALL BE #14.

D. INSULATION SHALL BE THHN/THWN UNLESS OTHERWISE NOTES ON PLAN.

2.06 OUTLET BOXES

A. ALL OUTLET BOXES, EXTENSIONS, AND COVER FRAMES SHALL BE GALVANIZED SHEET STEEL FOR CONCEALED LOCATIONS OR CAST METAL FOR EXPOSED LOCATIONS UNLESS OTHERWISE NOTED. BOXES SHALL BE A MINIMUM OF 1-1/2" DEEP AND SHALL BE SIZED TO ACCOMMODATE THE INSTALLED CONDUIT CONDUCTORS AND DEVICE. BOXES TO WHICH LUMINAIRES ARE INSTALLED SHALL HAVE STUDS AND STRAPS REQUIRED TO SUPPORT THE WEIGHT OF THE LUMINAIRES.

2.07 PULL AND JUNCTION BOXES

A. PULL AND JUNCTION BOXES SHALL BE CONSTRUCTED OF CODE GAUGE GALVANIZED SHEET STEEL AND FITTED WITH SCREW COVERS HELD IN PLACE WITH CORROSION RESISTANT MACHINE SCREWS.

2.08 AUTOMATIC TRANSFER SWITCH

A. 250A 3-POLE 208/120V/3ø/4W AUTOMATIC TRANSFER SWITCH.

B. MINIMUM 65,000A INTERRUPTING CAPACITY.

C. OPEN TRANSITION TRANSFER.

D. NEMA 1 ENCLOSURE

E. ANSI/NEMA ICS2-447; ELECTRICALLY OPERATED, MECHANICALLY HELD.

F. (2) N/O AND (2) N/C AUXILIARY CONTACTS.

2.09 FIRE ALARM SYSTEM

A. THE FIRE ALARM SYSTEM SHALL BE AN ADDRESSABLE AND SUPERVISED TYPE SYSTEM WITH MANUAL AND AUTOMATIC ALARM INITIATING DEVICES, AUDIBLE/VISUAL ALARM NOTIFICATION DEVICES, CONTROL PANEL, AND OTHER SYSTEM COMPONENTS ZONED AND LOCATED AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN. THE ENTIRE SYSTEM ARRANGEMENT, WIRING AND COMPONENTS SHALL BE APPROVED FOR 'ASSEMBLY' TYPE OCCUPANCY AND CONFORM TO NFPA 70, 72, 90A AND 101, ADA AND ALL LOCAL CODES.

B. THE FIRE ALARM SYSTEM OPERATION SHALL BE AS FOLLOWS:
   1. TROUBLE: TROUBLE CONDITION (OPENS, GROUNDS, POWER LOSS) AT ANY POINT IN THE SYSTEM WILL CAUSE THE ZONE AND COMMON TROUBLE LAMPS TO LIGHT AND SOUND TROUBLE SIGNAL AT CONTROL PANEL. TROUBLE SOUND MAY BE SILENCED BUT WILL RING BACK AFTER SYSTEM IS RESTORED TO NORMAL. TROUBLE LAMPS WILL REMAIN ON UNTIL TROUBLE IS CLEARED AND SYSTEM IN RESTORED TO NORMAL.
   2. ALARM: ACTIVATION OF ANY SYSTEM ALARM INITIATING DEVICE WILL CAUSE ZONE AND ALARM LAMPS TO LIGHT, ALL BUILDING ALARM VOICE AND VISUAL NOTIFICATION SIGNALS TO ACTUATE, AUXILIARY RELAYS TO ACTUATE AND DIGITAL FIRE COMMUNICATOR TO INITIATE CALL TO FIRE DEPARTMENT. ALARM SIGNALS MAY BE SILENCED AT THE CONTROL PANEL. ALARM AND ZONE LAMPS WILL REMAIN ON UNTIL SIGNAL IS CLEARED AND SYSTEM IS RESTORED TO NORMAL.

C. THE CONTROL PANEL SHALL CONTAIN THE FOLLOWING COMPONENTS AND FUNCTIONS:
   1. ADDRESS INDICATING DEVICES AND CONTROLS.
   2. INITIATING AND ALARM CIRCUIT SUPERVISION.
   3. SYSTEM AND ZONE TROUBLE/ALARM LAMPS.
   4. AUDIBLE SIGNAL DEVICE.
   5. TROUBLE AND ALARM SILENCE SWITCHES.
   6. ALARM RESET.
   7. DUAL LINE DIGITAL FIRE COMMUNICATOR.
   8. POWER ON LAMP, LOW BATTERY LAMP.
   9. GROUND-FAULT INDICATOR.
   10. LAMP TEST PUSHBUTTON.
   11. POWER SUPPLIES.
   12. BATTERY POWER SUPPLY.
   13. AUXILIARY & REMOTE ALARM CONTACTS.

D. CONTROL PANEL SHALL BE SURFACE MOUNTED, ENAMELED STEEL ENCLOSURE WITH LOCKABLE CABINET DOOR.

E. MANUAL PULL STATIONS SHALL BE SEMI-FLUSH MOUNTED, PULL-DOWN TYPE WITH KEYED LOCK FOR RESET. WALL MOUNT 48" ABOVE FLOOR.

F. AUDIBLE ALARM DEVICES SHALL BE SEMI-FLUSH MOUNTED, MODULAR TYPE SPEAKER WITH BUILT-IN STROBE LIGHT AND GRILLED FACE COVER. WALL MOUNT 80" ABOVE FLOOR. VISIBLE ALARM DEVICES SHALL BE SEMI-FLUSH MOUNTED, MODULAR TYPE FLASHING STROBE LIGHT WITH FACE COVER. WALL MOUNT 80" ABOVE FLOOR.

G. SMOKE DETECTORS SHALL BE SURFACE MOUNTED, MODULAR, PHOTOELECTRIC TYPE.

H. DUCT SMOKE DETECTORS BY MECHANICAL CONTRACTOR SHALL BE DUCT MOUNTED, MODULAR, PHOTOELECTRIC TYPE COMPLETE WITH DUCT WIDTH INLET AND RETURN TUBES AND DETECTOR HEAD ASSEMBLY. DUCT SMOKE DETECTORS WILL BE MOUNTED IN THE DUCT BY THE MECHANICAL CONTRACTOR AS INDICATED ON THE MECHANICAL DRAWINGS AND DERIVE POWER FROM THE HVAC SYSTEM'S CONTROL POWER. ELEC CONTRACTOR SHALL PROVIDE ALL WIRING CONNECTIONS TO FACP, ALARM SIGNAL SHALL SHUT OFF A/C UNIT VIA A FACP CONTROLLED RELAY, ACTIVATION OF DUCT SMOKE DETECTOR SHALL SEND SUPERVISORY SIGNAL TO FACP. PROVIDE EACH DETECTOR WITH A REMOTE TEST/INDICATOR STATION MOUNTED ON THE WALL OR CEILING NEAR THE DETECTOR. LABEL EACH REMOTE STATION WITH A/C UNIT NUMBER.

I. PROVIDE WIRING CONNECTIONS TO SPRINKLER SYSTEM FLOW AND TAMPER SWITCHES PROVIDED UNDER DIVISION 15 AS INDICATED ON THE DRAWINGS OR AS REQUIRED. CONNECT FLOW SWITCHES FOR ALARM INITIATION AND TAMPER SWITCHES FOR TROUBLE SIGNAL. *SPRINKLED BUILDING* PROVIDE 120V POWER CONNECTION TO ALARM BELL ON BUILDING EXTERIOR AS REQUIRED FOR INITIATION UPON FLOW SWITCH ACTIVATION.

J. ALL FIRE ALARM SYSTEM WIRING SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

K. PROVIDE GROUND CONDUCTOR AND GROUND CONNECTIONS FOR ALL CONTROL PANELS AND CABINETS AS RECOMMENDED BY THE MANUFACTURER.

L. THE ENTIRE SYSTEM SHALL BE INSTALLED AND TESTED UNDER THE SUPERVISION OF A QUALIFIED MANUFACTURERS REPRESENTATIVE.

M. THE ENTIRE SYSTEM SHALL BE TESTED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO ENSURE PROPER OPERATION OF ALL COMPONENTS.

N. PROVIDE PROPERLY EXECUTED FIRE ALARM SYSTEM CERTIFICATION TO CERTIFY THAT SYSTEM HAS BEEN INSTALLED AND TESTED IN ACCORDANCE WITH ALL APPLICABLE CODES.

O. MANUFACTURER SHALL BE JOHNSON CONTROLS, GAMEWELL, NOTIFIER OR APPROVED EQUAL.

2.10 TRANSIENT VOLTAGE SURGE SUPPRESSORS

A. VOLTAGE SURGE SUPPRESSOR SHALL BE UL 1449 LISTED, AND SHALL MEET OR EXCEED MAXIMUM FAULT CURRENT INDICATED FOR PANELBOARDS ON WHICH INSTALLED. ADVANCED PROTECTION TECHNOLOGIES IN NEMA-3R ENCLOSURE WITH INTEGRAL DISCONNECT MODEL #TE/2HPS/DS/*3R FOR 208V/3 /4W SERVICES, OR APPROVAL EQUAL BY, LIEBERT, OR INTERMATIC OR EQUAL.

B. PROVIDE AND INSTALL ALL WIRING/CONDUIT CONNECTIONS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

2.11 WIRING AND CONTROL DEVICES

A. ALL DEVICES SHALL BE SPECIFICATION GRADE AND THE PRODUCT OF ONE MANUFACTURER THROUGHOUT THE PROJECT EXCEPT AS OTHERWISE NOTED.
   1. WALL SWITCHES SHALL BE 20 AMPERE, 120-277 VOLT, AC TOGGLE HANDLE, QUIET TYPE WITH SIDE OR BACK WIRING TERMINALS. SWITCHES SHALL BE SINGLE OR MULTI-POLE AS INDICATED ON DRAWINGS.
   2. DUPLEX RECEPTACLES SHALL BE STRAIGHT BLADE, 15 AMPERE 125 VOLT, AC, OF GROUNDING TYPE WITH SIDE OR BACK WIRING TERMINALS.
   3. DEVICES AND COVER PLATES SHALL BE WHITE IN COLOR UNLESS OTHERWISE NOTED.
   4. REFER TO THE DRAWINGS FOR SPECIAL RECEPTACLE TYPE AND WIRING DEVICES. DEVICE PLATES SHALL BE SMOOTH PLASTIC, WHITE IN COLOR UNLESS NOTED OTHERWISE FOR ALL FLUSH INSTALLED OUTLET BOXES. WEATHERPROOF DEVICES SHALL BE COVERED WITH APPROVED HINGED PLATE AND SEAL. SURFACE MOUNTED DEVICE OUTLETS SHALL BE FITTED WITH APPROPRIATE SHEET STEEL OR CAST METAL COVER PLATES TO MATCH DEVICE AND BOX.

B. PHOTO-ELECTRIC CONTROLS SHALL BE SINGLE POLE, SINGLE THROW, RATED 1,500 WATTS (MINIMUM), 120 VOLTS OR 277 VOLTS (AS REQUIRED) WITH TIME DELAY AND CONTAINED IN HERMETICALLY SEALED WEATHERPROOF ENCLOSURE SUITABLE FOR AMBIENT TEMPERATURE OPERATION OF -20° TO 150°F.

C. TIME SWITCH CONTROLS SHALL BE SINGLE OR MULTI-POLE, SINGLE THROW, RATED 30 AMPERES PER POLE (MINIMUM), 120 VOLTS OR 277 VOLTS (AS REQUIRED) WITH ASTRONOMIC DIAL PROPERLY SELECTED FOR LATITUDE OF INSTALLATION AND TWELVE HOUR (MINIMUM) SPRING RESERVE CARRY-OVER IN THE EVENT OF POWER FAILURE. UPON RESUMPTION OF POWER, SPRING SHALL AUTOMATICALLY REWIND. TIME SWITCH SHALL BE INSTALLED IN NEMA 1 SURFACE ENCLOSURE FOR INTERIOR LOCATIONS, NEMA 3R FOR EXTERIOR LOCATIONS, OTHERWISE NOTED.

PART III – INSTALLATION

3.01 GROUNDING AND BONDING

A. BOND THE SERVICE EQUIPMENT SUCH AS METALLIC HOUSING AND FEEDER METALLIC CONDUITS TO THE GROUNDING ELECTRODE. USE GROUNDING BUSHINGS.

B. PROVIDE A BONDING JUMPER FOR ANY EQUIPMENT, MOTOR, LUMINAIRE OR DEVICE TO WHICH CURRENT CARRYING CONDUCTORS ARE CONNECTED THAT IS NOT BONDED TO THE EQUIPMENT GROUNDING CONDUCTOR. CONNECT THE BONDING JUMPER TO APPROVED LUGS OR GROUNDING BUSHINGS OR CLAMPS. ALL CONDUIT AND CABLE SHALL CONTAIN A GROUNDING CONDUCTOR.

C. PROVIDE EQUIPMENT GROUND IN ALL FEEDERS AND BRANCH CIRCUITS.

3.02 RACEWAYS

A. CONDUIT REQUIRED TO BE EXPOSED SHALL BE RUN PARALLEL OR PERPENDICULAR TO THE WALLS, CEILINGS, OR STRUCTURAL MEMBERS AND PROVIDE SUPPORTS AS REQUIRED BY THE NEC. IN ADDITION INSTALL SUPPORTS AS REQUIRED TO FORM A SECURE AND FIRM INSTALLATION. SUPPORTS SHALL BE GALVANIZED PIPE STRAPS, HANGERS OR WALL BRACKETS. SECURE SUPPORTS TO STRUCTURE WITH TOGGLE BOLTS IN HOLLOW MASONRY UNITS, EXPANSION TYPE DEVICES IN CONCRETE OR BRICK, SCREWS IN WOOD AND BOLTS IN STEEL WORK. SHOT TYPE INSERTS MAY BE ONLY USED IN POURED CONCRETE OR STRUCTURAL STEEL ONLY WHEN APPROVED IN WRITING BY STRUCTURAL ENGINEER. MAKE UP EXPOSED CONDUIT USING CAST FITTINGS AND SYMMETRICAL BENDS ONLY. FIRMLY SUPPORT CONCEALED CONDUIT AT THE STRUCTURE AND INSTALL SO AS TO PREVENT ANY VIBRATION AGAINST STRUCTURE, PIPE OR DUCT WORK.

B. FIT CONDUIT INSTALLED IN CONCRETE OR SECURED TO STRUCTURAL MEMBERS THAT PASS THROUGH EXPANSION JOINTS CONSTRUCTED IN THE BUILDING WITH A SHORT SECTION OF FLEXIBLE METALLIC CONDUIT COMPLETE WITH COPPER BONDING JUMPER.

C. ALL CONDUITS WHICH PENETRATE FIRE RATED ASSEMBLIES SHALL BE SEALED AROUND THEIR PERIMETER AS DIRECTED BY ARCHITECTURAL SPECS USING GROUT OR FIRE STOP SEALANT AS SPECIFIED. SLEEVES SHALL BE CAPPED OR SEALED.

D. ALL CONDUITS WHICH PENETRATE ROOF SHALL BE COORDINATED WITH THE ROOFING VENDOR AND GENERAL CONTRACTOR. ALL APPROVED PENETRATIONS SHALL HAVE A MINIMUM OF 8" CLEAR FROM ROOF SURFACE TO THE FIRST FITTING.

E. ALL METALLIC CONDUIT TERMINATING IN OUTLET, JUNCTION OR PULL BOXES AND CABINETS MUST TERMINATE WITH AN INSULATING BUSHING AND DOUBLE LOCKNUTS EXCEPT AT BOXES WITH THREADED HUBS WHERE THEY MAY BE OMITTED.

F. FIT EMPTY CONDUIT SYSTEMS WHERE NOTED WITH A 16 GAUGE PULL-WIRE AND BLANK-OFF TO PREVENT ENTRANCE OF FOREIGN MATTER UNTIL THE CONDUCTORS ARE INSTALLED.

G. CONDUIT SHALL NOT BE SMALLER THAN 1/2" TRADE SIZE AND MUST BE SIZED TO ACCEPT THE CONDUCTORS INDICATED.

3.03 WIRING

A. BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE N.E.C. WHERE INDICATED ON THE DRAWINGS, THE SIZES ARE INTENDED TO SET A MINIMUM.

B. ALLOW NO LESS THAN 8" OF SLACK CONDUCTORS FOR USE IN THE FINAL CONNECTION OF LUMINAIRES OR DEVICES AT WIRED OUTLETS.

C. MAKE BRANCH CIRCUIT JOINTS AND TAPS IN WIRE SIZE #10 AND SMALLER WITH SOLDERLESS CONNECTORS. MAKE JOINTS AND TAPS IN WIRE SIZED #8 AND LARGER WITH BOLTED OR SCREWED SOLDERLESS CONNECTORS.

D. DO NOT PASS WIRE THROUGH CABINETS AND SWITCH ENCLOSURES UNLESS INTENDED FOR SPECIFIC USE WITHIN THE CABINET OR ENCLOSURES. USE JUNCTION BOXES OR AUXILIARY GUTTERS IN SUCH CASES.

3.04 BOXES

A. THE LOCATION OF OUTLETS ON THE DRAWINGS IS TO BE CONSIDERED AS APPROXIMATE ONLY, INASMUCH AS OUTLETS ARE TO BE CENTERED IN BLOCKS, PANELS, OR OTHER MODULAR UNITS. BE FAMILIAR WITH THE REQUIREMENTS OF THE OTHER TRADES AS WELL AS THE BUILDING IN GENERAL TO BECOME AWARE OF THE VARIOUS MATERIALS AND FINISHED SURFACES IN WHICH OUTLETS ARE TO BE INSTALLED.

B. INSTALL THE BOXES SQUARE AND PLUMB WITH THE RECEPTACLE AND JUNCTION BOXES IN A VERTICAL POSITION. THE FRONT EDGE OF BOXES INSTALLED IN NON-COMBUSTIBLE WALLS SHALL BE NO DEEPER THAN 1/4" AND FOR COMBUSTIBLE FACED WALLS THEY SHALL BE FLUSH.

C. COVER ALL BOXES FOR FUTURE USE OR JUNCTION PURPOSES WITH BLANK PLATES.

D. BOXES IN EXPOSED LOCATIONS SHALL BE CAST METAL BOXES WITH THREADED CONDUIT HUBS. SECURELY FASTEN BOXES TO BUILDING SURFACES.

3.05 WIRING DEVICES

A. GANG THE DEVICES WHERE INDICATED TOGETHER IN COMMON BOXES WITH DEVICE STRAPS BONDED TO THE METALLIC SYSTEM OR SEPARATE GROUNDING CONDUCTOR.

B. CONNECT SWITCHES IN SUCH A MANNER THAT THE SWITCH NEAREST THE DOOR CONTROLS THE LUMINAIRE, OR DEVICE NEAREST THE DOOR AND, PROGRESS TO THE FURTHEST LUMINAIRE OR DEVICE, UNLESS OTHERWISE INDICATED.

3.06 IDENTIFICATION LABELS

A. PROVIDE IDENTIFICATION LABELS FOR ALL DISTRIBUTION EQUIPMENT AND OTHER ELECTRICAL APPARATUS AS SPECIFIED HEREIN. LABELS SHALL BE PERMANENTLY ATTACHED LAMINATED PLASTIC WITH BLACK BACKGROUND AND WHITE ENGRAVED LETTERING. LABELS SHALL BE AS FOLLOWS:
   1. DISTRIBUTION PANELS AND PANELBOARDS: LABEL SIZE: 1" WITH 1/2" LETTERS. LIST THE EQUIPMENT NAME, VOLTAGE, AND PHASE. FOR EXAMPLE: "L1 480/277V-3Ø".
   2. DISCONNECT SWITCHES: LABEL SIZE: 1/2" WITH 1/4" LETTERS. DESCRIBE THE EQUIPMENT CONTROLLED.

3.07 LUMINAIRES

A. UPON COMPLETION OF THE PROJECT AND JUST PRIOR TO DELIVERING THE PROJECT TO THE OWNER, CLEAN ALL LENSES, REFLECTORS, BAFFLES, ETC., AND REMOVE, ALL TAGS AND LABELS WHICH AFFECT THE APPEARANCE OR PERFORMANCE OF THE LUMINAIRE.

3.08 TELEPHONE/DATA CONDUIT SYSTEM

A. INSTALL CONDUIT AND OUTLET BOXES FOR THE FUTURE INSTALLATION OF TELEPHONE/DATA CABLE AND EQUIPMENT BY THE TELEPHONE/DATA VENDORS. CONDUIT SHALL BE AS PREVIOUSLY SPECIFIED WITH 3/4" AS MINIMUM SIZE.

B. TELEPHONE/DATA OUTLETS SHALL BE 4" SQUARE BY 1-1/2" DEEP WITH (MINIMUM) SINGLE GANG EXTENSION COVERS.

3.09 EQUIPMENT CONNECTIONS

A. MAKE ALL FINAL POWER FEED CONNECTIONS TO EQUIPMENT INSTALLED BY THE HEATING AND AIR CONDITIONING, AND PLUMBING CONTRACTORS AS INDICATED ON THE DRAWINGS.

B. VERIFY ALL EQUIPMENT FOR THE SERVICE AND CHARACTERISTICS PROVIDED PRIOR TO ROUGH-IN AND CONNECTION. PROVIDE A GROUNDING CONDUCTOR FOR ALL EQUIPMENT CONNECTED WITH FLEXIBLE CONDUIT AND BOND TO THE CONDUIT SYSTEM AND METALLIC FRAME OF EQUIPMENT.

C. BE RESPONSIBLE FOR SECURING AND INSTALLING THE PROPER INSULATED CONDUCTORS REQUIRED FOR EQUIPMENT OF HIGHER TEMPERATURE RANGE BEYOND THAT OF SPECIFIED BRANCH CIRCUIT TYPE.

(END OF 26000 ELECTRICAL SPECIFICATIONS)

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GEORGE MAXWELL POINT IV ★ LICENSED No. 72404 ★ STATE OF FLORIDA ★ PROFESSIONAL ENGINEER

Do Not Scale The Drawings

5th Revision	
4th Revision	
3rd Revision	
2nd Revision	
1st Revision	
Issue Date	October 26, 2021
Project Number	21-033-007

ELECTRICAL SPECIFICATIONS

E-5.1

ROOFTOP AIR CONDITIONER SCHEDULE

PLAN SYMBOL	SERVICE	NOMINAL CAPACITY TONS	SUPPLY CFM	HGRH	OA CFM	ESP	FAN HP/BHP	GROSS CAPACITY TOTAL/SENS MBH	EAT DB/ WB	LAT DB/ WB	ROWS/ FINS	COIL AREA (SQFT)	REFRIG CAPACITY CONTROL	ELECT HEAT KW	VOLTAGE/ PHASE	MCA/ MOCP	IEER/EER	WEIGHT (LBS)	MANUF/MODEL
RTU-1, 2, 3, 4	OLLIE'S	25.0	8750	NO	1300	1"	10/6.4	276.6/212.4	78.0/ 65.0	54.6/ 54.0	--/--	--	2 STEPS	30.0	208/3	137/150	11.6/10.5	2359	LENNOX KCB300S4B

ELECTRICAL NOTE: 208/3/60

NOTES:
1. MINIMUM WARRANTY: 1 YEAR PARTS AND LABOR/5 YEARS COMPRESSOR/10 YEAR WARRANTY EVAPORATOR AND CONDENSER COILS
2. INCLUDE OA INTAKE HOOD & MOTORIZED OA DAMPER. DAMPER SHALL BE CLOSED WHEN IN UNOCUPPIED MODE OR STORE CLOSED HOURS.
3. 2-SPEED (OR VFD DRIVEN) SUPPLY AIR FAN
4. NEW UNITS SHALL BE SET ATOP EXISTING ROOF CURBS. ADAPTER CURBS ARE REQUIRED TO TRANSITION FROM NEW UNIT TO EXISTING CURB.
5. UPGRADE TO ROOFTOP UNITS WITH HGRH HIGHLY RECOMMENDED BY EOR. PROVIDE OWNER WITH OPTIONAL UPGRADE COST TO USE VOYAGER UNIT AND EXPLAIN TO OWNER THE BENEFITS OF IMPROVED HUMIDITY CONTROL.
6. DUCT-MOUNTED SMOKE DETECTOR THAT DIRECTLY DISABLES SUPPLY FAN AND ALSO SIGNALS FIRE ALARM REQUIRED.
7. NEW FILTERS MUST BE INSTALLED 2 WEEKS PRIOR TO TENANTS POSSESSION DATE
8. THERMOSTATS ARE TO BE CONTROLLED THROUGH AN ENERGY MANAGEMENT SYSTEM, SEE NOTE 9 THIS SHEET. THERMOSTATS INCLUDE LOCK BOXES.

FAN SCHEDULE

PLAN SYMBOL	LOCATION / SERVICE	FAN TYPE	DRIVE TYPE	CFM @ IN W.G.	SONES @0.25" PS	MOTOR HP	VOLTAGE /PHASE	ROOF CURB	ROOF CAP	WALL CAP	WEIGHT (LBS.)	BASIS OF DESIGN	NOTES
EF-1	ROOFTOP / RESTROOM BREAKROOM JANITOR EXHAUST	B	DIRECT	500 CFM @0.250 IN W.G.	8.0	1/4	120/1	YES	N/A	N/A	66	GREENHECK G-098 VARI-GREEN	1,2,3,4,6,7

NOTES:
1. INTERLOCK WITH TIMECLOCK OR INTERLOCK WITH RTU-1 OPERATION.
2. TO AVOID NEW ROOF PENETRATION UTILIZE EXISTING ROOF CURB.
3. INCLUDE ADAPTOR CURB TO TRANSITION FROM NEW FAN TO EXISTING CURB
4. INCLUDE BACKDRAFT DAMPER
5. INCLUDE VARI-GREEN CONTROLLER OR ALTERNATIVE SOLID STATE SPEED CONTROL
6. SOLID STATE MANUAL SPEED CONTROLLER FOR BALANCING DIRECT DRIVE FANS
7. MINIMUM WARRANTY: 1 YEAR PARTS AND LABOR

FAN TYPE A=CEILING RECESSED, SWITCH OPERATED, CENTRIFUGAL.
FAN TYPE B=ROOFTOP DOWNBLAST CENTRIFUGAL.
FAN TYPE C=WALL PROPELLER FAN.

ASHRAE 62.1 VENTILATION CALCULATION

UNIT TAG	AREA SERVED	GROSS AREA SQFT	RA CFM PER SQFT	AREA VENTILATION CFM	RP CFM PER PERSON	ROOM OCCUPANTS	OCCUPANT VENTILATION CFM	TOTAL VENTILATION	ZONE VENTILATION EFFECTIVENESS	TOTAL VENTILATION REQUIRED	ACTUAL VENTILATION AT UNIT	NOTES
RTU-1	SALES FLOOR	6113	0.12	733.6	7.5	17	127.5	861.1	0.80	1076.3	1300	
	BREAKROOM	304	0.18	54.7	7.5	4	30.0	84.7	0.80	105.9		
	OFFICE	120	0.06	7.2	5	1	5.0	12.2	0.80	15.3		
	HALL	110	0.06	6.6	0	0	0.0	6.6	0.80	8.2		
RTU-2	SALES FLOOR	7326	0.12	879.1	7.5	20	150.0	1029.1	0.80	1286.4	1300	
RTU-3	SALES FLOOR	7326	0.12	879.1	5	3	15.0	894.1	0.80	1117.7	1300	
	STORAGE	NATURAL VENTILATION VIA OPENABLE ROLLUP DOORS, MANDOORS, & WINDOWS										
RTU-4	SALES FLOOR	7206	0.12	864.7	7.5	20	150.0	1014.7	0.80	1268.4	1300	
	CASH	120	0.06	7.2	5	1	5.0	12.2	0.80	15.3		

NOTE 1: --

DIFFUSER REGISTER & GRILLE SCHEDULE

PLAN SYMBOL	DEVICE DESCRIPTION	OPPOSED BLADE DAMPER INCLUDED	NECK SHAPE	COLOR	CEILING TYPE
A	24x24 SQUARE PLAQUE DIFFUSER MATERIAL ALUMINUM 360° RADIAL HORIZ. AIR FLOW PATTERN FACTORY MOLDED INSULATION BACKING BASIS OF DESIGN PRICE ASPD	YES	ROUND	CONSULT ARCHITECT	LAY-IN GRID
B	12x12 SQUARE PLAQUE DIFFUSER MATERIAL ALUMINUM 360° RADIAL HORIZ. AIR FLOW PATTERN FACTORY MOLDED INSULATION BACKING BASIS OF DESIGN PRICE ASPD	YES	ROUND	CONSULT ARCHITECT	LAY-IN GRID
R	CEILING EGGCRATE RETURN GRILLE ALUM. GRID & FRAME PLENUM RETURN 1/2"x1/2"x1/2" RECT NECK MATERIAL STEEL OR ALUMINUM BASIS OF DESIGN PRICE 80	NONE	RECTANGLE	CONSULT ARCHITECT	LAY-IN GRID
S	CONCENTRIC 4-SIDED SPECIALTY SUPPLY DIFFUSER. SIZED BY RUSKIN REPRENSENTATIVE FOR APPROPRIATE THROW AND CFM. RUSKIN 575 DRUM RRS, SEE DETAIL ON SHEET M-5	YES	RECTANGLE	CONSULT ARCHITECT	NO CEILING

DUCT CONSTRUCTION CRITERIA

APPLICATION	MATERIAL	MINIMUM THICKNESS	DUCT CLASS	INSULATION	
				CONCEALED	LAST 5 FEET
SUPPLY DUCTS	GALV. STEEL DOUBLE WALLED	1.5"	1" WG	BETWEEN INNER AND OUTER WALL R-4.5	N/A
RETURN DUCTS	GALV. STEEL	26 GAUGE	1/2" WG	NONE	N/A
OA OR VENTILATION DUCTS	GALV. STEEL	26 GAUGE	1/2" WG	R-6	N/A
EXHAUST DUCTS	GALV. STEEL	26 GAUGE	1/2" WG	NONE	R-4.2

NOTES:
1. FLEXIBLE DUCT SHALL BE R-6 WITH FSK. LIMITED USE OF FLEXIBLE DUCTS TO CONCEALED ABOVE OFFICE CEILINGS.
2. "LAST 5 FEET" REFERS TO LAST FIVE FEET OF DUCT BEFORE IT REACHES EXTERIOR WALL.

WALL LOUVER SCHEDULE

LOUVER TAG	NOMINAL SIZE	DESIGN CFM	FREE AREA	VELOCITY ACROSS FREE AREA	BIRD SCREEN	INSECT SCREEN	BACKDRAFT DAMPER	MOTORIZED DAMPER	MODEL
L-1	42x36	5000	5	1,000	Y	N	Y	N	RUSKIN ELF375DX

DRAINABLE EXTRUDED ALUMINUM WITH KYNAR 500 FINISH

GENERAL NOTES

1. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH FLORIDA BUILDING CODE 7TH EDITION 2020 - MECHANICAL VOLUME AND NFPA 90A-2018 AND NFPA 90B-2018. WHERE CONFLICTS OCCUR BETWEEN CODES THE MOST RESTRICTIVE REQUIREMENTS SHALL GOVERN. CONTRACTOR IS RESPONSIBLE FOR COMPLETING AND SUBMITTING ALL NECESSARY APPLICATIONS TO RECEIVE NECESSARY PERMITS FROM THE COUNTY (OR APPROPRIATE AUTHORITY HAVING JURISDICTION). CONTRACTOR IS RESPONSIBLE FOR ALL FEES AND RELATED COSTS ASSOCIATED WITH OBTAINING PERMITS. RELATED COSTS ARE TO INCLUDE BUT ARE NOT LIMITED TO ANY MILEAGE, TRAVEL COSTS, COURIER COSTS, POSTAGE, REPRODUCTION COSTS, ETC.
2. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND SHALL BE EQUAL IN QUALITY, TYPE, CAPACITY EFFICIENCY AND ACCESSORIES TO THE EQUIPMENT NOTED ON THE DRAWINGS. ADJUSTMENTS TO CONSTRUCTION AND ACCESSORIES ON SUBSTITUTED EQUIPMENT MAY BE REQUIRED TO ACHIEVE THIS EQUALITY, AND SHALL BE INCLUDED AT NO EXTRA COST TO THE OWNER. MAKE ANY CHANGES IN DUCTWORK, PIPING, FRAMING, ETC., AS REQUIRED TO ACCOMMODATE SUBSTITUTED EQUIPMENT.
3. DEMOLITION: ALL HVAC EQUIPMENT SHALL BE REMOVED. ALL ROOFTOP EQUIPMENT SHALL BE REMOVED. ALL HVAC EQUIPMENT BELOW THE ROOF SHALL BE REMOVED. APPLIES TO BUT NOT LIMITED TO AIR HANDLERS, FAN COIL UNITS, HEATERS, DUCTS, REFRIGERANT PIPING, DUCT INSULATION, DAMPERS, REGISTERS, DIFFUSERS, GRILLES, ROOFTOP UNITS, ROOFTOP FANS, CONDENSING UNITS, HEAT PUMPS, ETC.
4. ROOF CURBS TO REMAIN. AFTER EQUIPMENT IS REMOVED FROM ROOF CURBS SHALL BE CAPPED WITH GALVANIZED STEEL G90 SHEET METAL REINFORCED WITH 2" UNISTRUT AT NO MORE THAN 48" O.C. WITH UNISTRUT IN PLACE AND BEFORE INSTALLING SHEET METAL CAP INSTALL R-19 INSULATION. SECURE SHEET METAL CAP TO CURB WITH #10 3" SCREWS AT NO MORE THAN 30" O.C. MINIMUM TWO PER SIDE. AT LEAST ONE SCREW WITHIN 12" OF CORNERS.
5. ROOFCURBS TO BE REUSED. FOR NEW RTU AN ADAPTOR CURB IS REQUIRED. UTILIZE EXISTING ROOF CURB THEN MOUNT ADAPTOR CURB ATOP IT AND SET UNIT. CUSTOM FABRICATED ADAPTOR CURB TO BE MADE BASED ON MEASUREMENT MADE BY MECHANICAL CONTRACTOR.
6. ROOFTOP UNITS WILL REQUIRE DUCT-MOUNTED SMOKE DETECTORS.
7. AIR DEVICES (REGISTERS AND DIFFUSERS) SHALL BE ALUMINUM. RETURN GRILLES SHALL BE ALUMINUM OR WITH OWNERS APPROVAL CAN BE PAINTED STEEL.
8. ALL NEW HVAC TO BE INSTALLED SHALL CARRY THE FOLLOWING MINIMUM WARRANTY. 1 YEAR PARTS AND LABOR/5 YEARS COMPRESSOR/10 YEAR WARRANTY HEAT EXCHANGER (CONDENSER AND EVAPORATOR COIL).
9. THERMOSTATS ARE TO BE CONTROLLED THROUGH AN ENERGY MANAGEMENT SYSTEM. THE LANDLORD SHALL PURCHASE AND INSTALL THIS SYSTEM FROM RIDDLEBERGER BROTHERS, INC. CONTACT WAYNE GIBSON OR ROBIN KISER AT 1-866-724-7378 TO PURCHASE SYSTEM. SEE M-4. THERMOSTATS SHALL HAVE LOCKING COVERS.
10. ENGINEER RECOMMENDS THAT ROOFTOP A/C UNITS INCLUDE HOT-GAS REHEAT (HGRH). THIS WILL ALLOW THE UNIT TO KEEP A CONSISTENT LEAVING AIR TEMP OFF THE COIL BELOW 55 F WHICH ASSURES MOISTURE IS WRUNG OUT OF THE AIR EVEN WHILE THE BUILDING'S COOLING DEMAND IS REDUCED SUCH AS RAINY AFTERNOONS. THIS IS NOT A REQUIREMENT BUT A RECOMMENDATION.
11. NEW FILTERS MUST BE INSTALLED 2 WEEKS PRIOR TO TENANTS POSSESSION DATE

ABBREVIATIONS

AC	AIR CONDITIONER
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
BAS	BUILDING AUTOMATION SYSTEM
CALC	CALCULATION
CLG	CEILING
CPT	CONTROL POWER TRANSFORMER
CU	CONDENSER UNIT
DISC	DISCONNECT
EF	EXHAUST FAN
ELEC	ELECTRICAL
ENCL	ENCLOSED
LTG	LIGHT/ LIGHTING
MCA	MINIMUM CIRCUIT AMPACITY
MOCP	MAXIMUM OVERCURRENT PROTECTION
N/A	NOT APPLICABLE
N/C	NORMALLY CLOSED
N/O	NORMALLY OPEN
NIC	NOT IN CONTRACT
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELEC MANUFACTURERS ASSOCIATION
PWR	POWER
REV	REVISION
RTU	ROOF TOP UNIT
SOS	SCOPE OF SERVICES
SOW	SCOPE OF WORK
SPECS	SPECIFICATIONS
TBD	TO BE DETERMINED
UON	UNLESS OTHERWISE NOTED
V	VOLTAGE
VFD	VARIABLE FREQUENCY DRIVE

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	SUPPLY AIR REGISTER
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
	24X24 DIFFUSER WITH ROUND NECK
	24X24 RETURN AIR GRILLE WITH ROUND NECK
	CONDENSING UNIT OR HEAT PUMP UNIT
	FLEXIBLE INSULATED DUCT
T	THERMOSTAT
	WALL CAP FOR EXHAUST OR INTAKE DUCT
	AIRFLOW DIRECTION ARROW
	FIRE DAMPER
	SMOKE DAMPER
	REVISIONS/ADDITIONS

DRAWING INDEX

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THOMAS JAMES TIDWELL LICENSED No. 51527 STATE OF FLORIDA PROFESSIONAL ENGINEER

Do Not Scale The Drawings

5th Revision	
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3rd Revision	
2nd Revision	
1st Revision	
Issue Date	October 26, 2021
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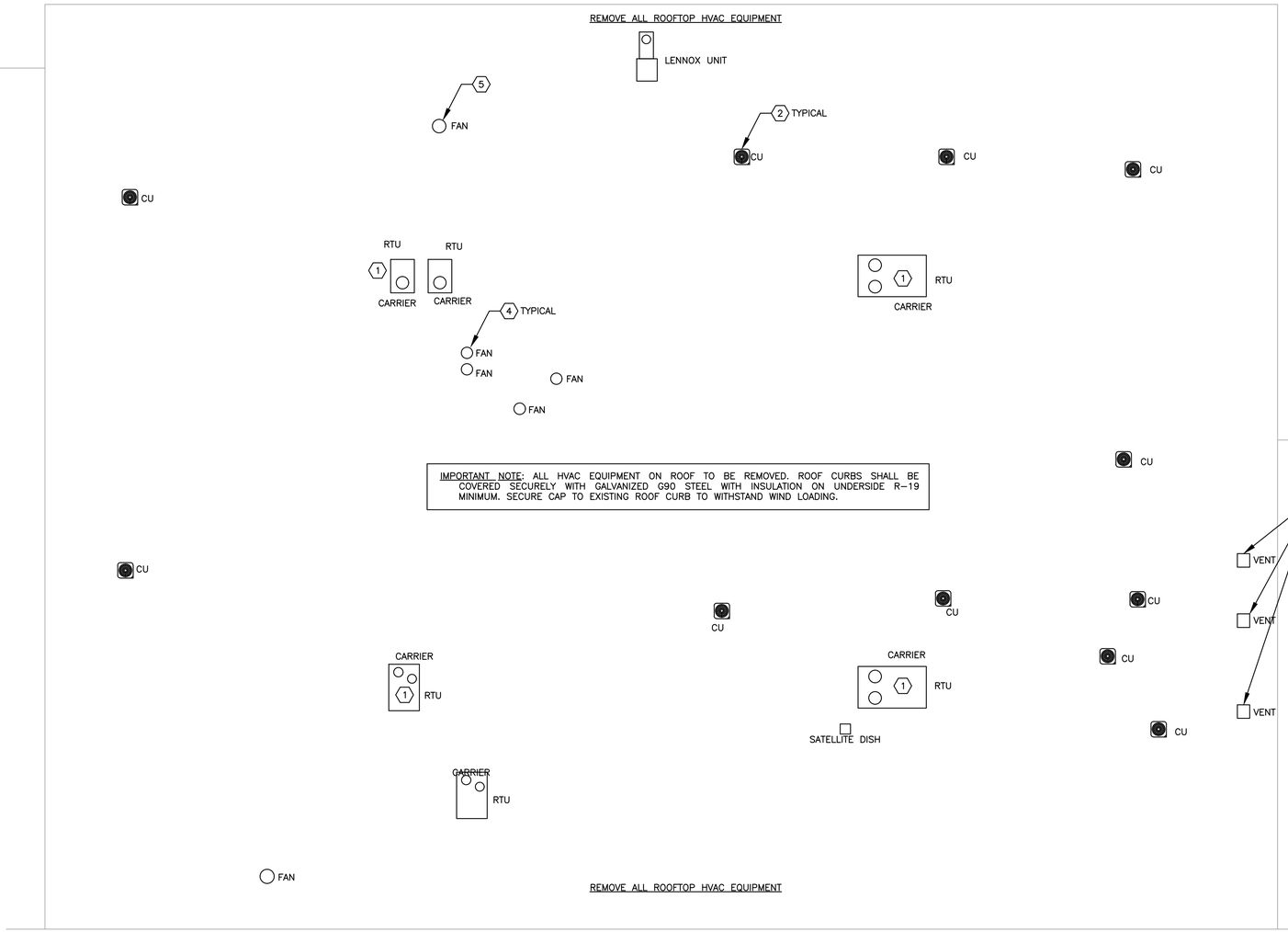
MECH. NOTES & SCHEDULES

M-1



MECHANICAL DEMO PLAN

SCALE: 3/32" = 1'-0"

0 2' 6' 12' 24' 30'

(#) KEYED PLAN NOTES:

1. LARGE EXISTING EQUIPMENT CURB TO REMAIN. REMOVE EQUIPMENT ON TOP OF CURB. CURB TO BE REFITTED WITH NEW ROOFTOP EQUIPMENT. CUSTOM FABRICATED GALVANIZED STEEL ADAPTOR CURB IS REQUIRED AND WILL BE BASED ON FIELD MEASUREMENTS OF EXISTING CURB MADE BY MECHANICAL CONTRACTOR AND THEN COORDINATED WITH NEW RTU'S DIMENSIONS.
2. EXISTING EQUIPMENT ON ROOF TO BE REMOVED. CONDENSING UNIT ON ROOF. REMOVE CONDENSING UNIT ON ROOF. REMOVE REFRIGERANT PIPING. CAP REFRIGERANT PIPING PENETRATION. THERE IS AN ASSOCIATED INDOOR AIR HANDLER IN THE SPACE BELOW. REMOVE THE AIR HANDLER, THERMOSTAT, WIRING, REFRIGERANT PIPING, REFRIGERANT DRYER, DUCTWORK, DIFFUSERS, REGISTERS, GRILLES, ETC. ASSOCIATED WITH SPLIT-SYSTEM.
3. EXISTING ROOFTOP VENT TO BE REMOVED. REMOVE ALL DUCT WORK BELOW.
4. EXISTING ROOFTOP FANS TO BE REMOVED.
5. CURB FOR FAN TO BE REUSED FOR NEW FAN.

IMPORTANT NOTE: ALL HVAC BELOW ROOF SHALL BE REMOVED. NOT SHOWN HERE BUT DUCTS, DIFFUSERS, REGISTERS, GRILLES, THERMOSTATS, LOW-VOLTAGE WIRING, METAL DUCT, FLEXIBLE DUCT, DUCT BOARD, AIR HANDLERS, FANS, ETC. SHALL BE REMOVED.

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Encrypted Digital Seal

THOMAS JAMES TIDWELL
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No. 51527
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Digitally signed by Thomas James Tidwell

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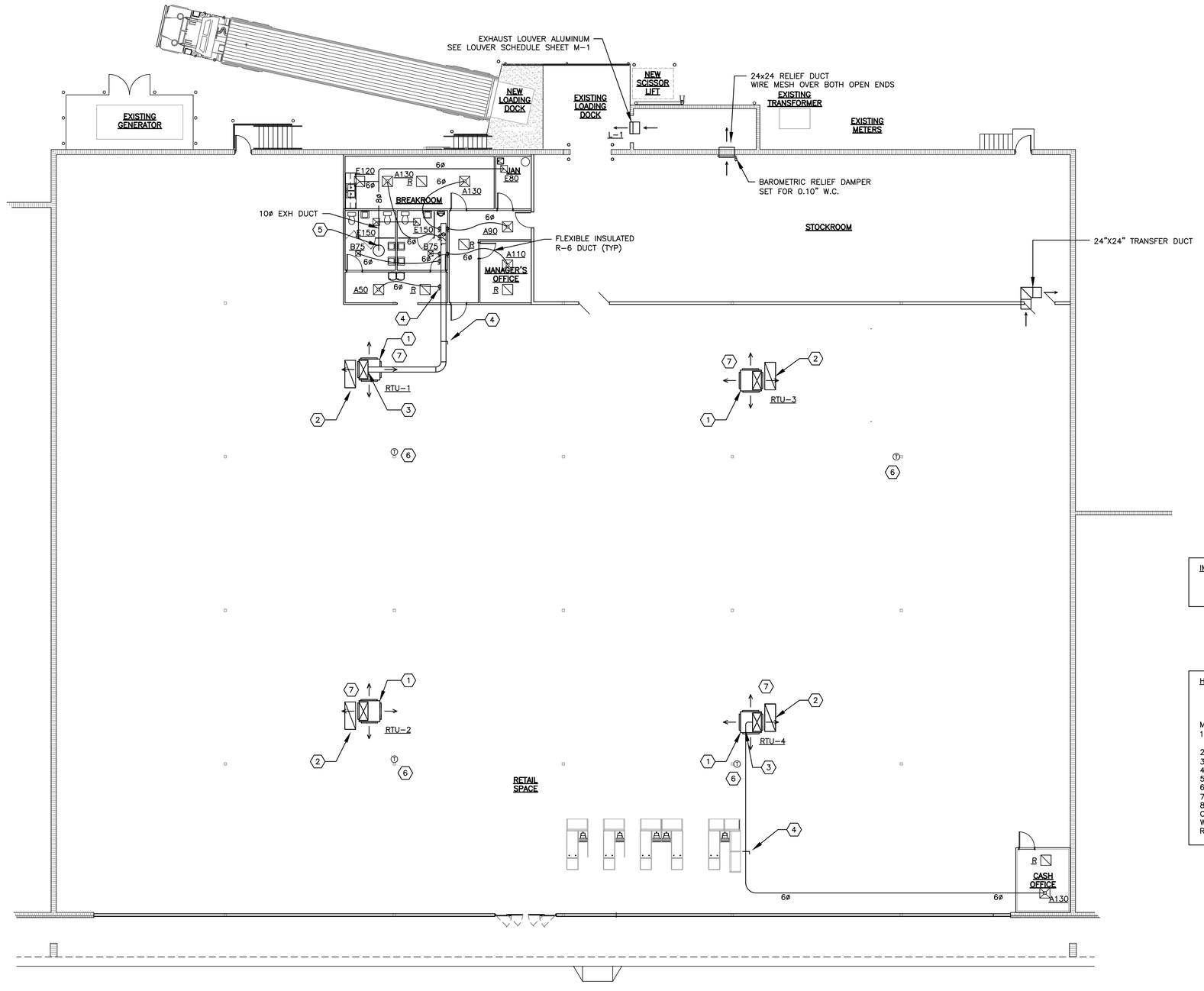
MECH.
DEMOLITION PLAN

M-2



MECHANICAL FLOOR PLAN

SCALE: 3/32" = 1'-0"

0 2' 6' 12' 24' 30'

(#) KEYED PLAN NOTES:

1. CONCENTRIC DIFFUSER. RUSKIN RRS DRUM LOUVER SPECIALTY DIFFUSER FOUR SIDED THROW
2. RETURN DUCT DROPS DOWN STRAIGHT FROM RTU. DUCT TO BE LINED FOR NOISE REDUCTION.
3. TAP INTO SIDE OF VERTICAL SUPPLY DUCT FROM RTU ABOVE THE CONCENTRIC DIFFUSER.
4. MANUAL VOLUME DAMPER FOR BALANCING AIRFLOW
5. EXHAUST DUCT, NOT INSULATED, TURNS UP TO ROOFTOP FAN EF-1
6. THERMOSTATS ARE TO BE CONTROLLED THROUGH AN ENERGY MANAGEMENT SYSTEM. THE LANDLORD SHALL PURCHASE AND INSTALL THIS SYSTEM FROM RIDDLEBERGER BROTHERS, INC. CONTACT WAYNE GIBSON OR ROBIN KISER AT 1-866-724-7378 TO PURCHASE SYSTEM. ALL THERMOSTATS SHALL HAVE LOCKING COVERS
7. DUCT-MOUNTED SMOKE DETECTOR REQUIRED ON ALL FOUR ROOFTOP UNITS. MOUNT IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS FOR LOCATION ON THE SUPPLY DUCT.

IMPORTANT NOTE: THE DESIGN DEPICTED ON THESE MECHANICAL SHEETS IS BASED ON ALL NEW HVAC INCLUDING THE RTU'S THE EXH FAN DUCTWORK, GRILLES, REGISTERS, DIFFUSERS. ONLY FIVE SELECT ROOF CURBS WILL BE REUSED, LEFT-IN-PLACE AND FITTED WITH AN ADAPTOR CURB. ONLY WITH WRITTEN PERMISSION FROM OWNER IS ANYTHING TO BE RE-USED.

HVAC CONTROLS: THERMOSTATS ARE TO BE CONTROLLED THROUGH AN ENERGY MANAGEMENT SYSTEM (EMS). SEE GENERAL NOTE 9 SHEET M-1. SEQUENCE OF OPERATIONS SHALL BE COOL TO 75 COOLING AND 68 HEATING DURING OCCUPIED HOURS. SETPOINTS DURING UNOCCUPIED TIMES SHALL BE 78 AND 65. RTU SHALL RECEIVE SETPOINTS FROM EMS.

MINIMUM REQUIREMENTS INCLUDED IN AN ENERGY MANAGEMENT SYSTEM:
1. JOHNSON CONTROL FX WEB-BASED EMS CONTROLLER (WITH PINK CABLE TO CONNECT TO NETWORK SWITCH)
2. THERMOSTATS
3. WALL SENSORS (2) PER STORE
4. PROGRAMMING
5. 5 HOURS OF COMMISSIONING
6. 3-YEAR WARRANTY ON THE JACE
7. END OF LINE RESISTORS (2)
8. SHIPPING

CONTACT WAYNE GIBSON OR ROBIN KISER AT 1-866-724-7378
WAYNE GIBSON EMAIL: GIBSONW@RBIVA.COM
ROBIN KISER EMAIL: KISERR@RBIVA.COM

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THOMAS JAMES TIDWELL LICENSED No. 51527 STATE OF FLORIDA PROFESSIONAL ENGINEER

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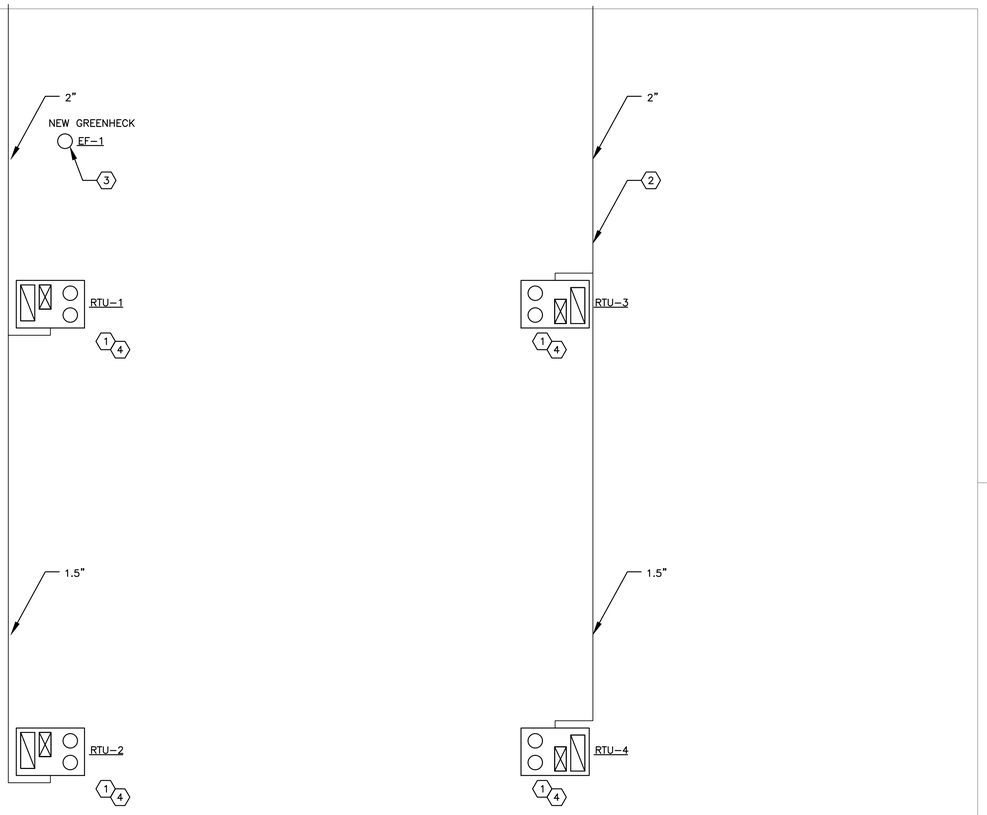
4th Revision	
3rd Revision	
2nd Revision	
1st Revision	
Issue Date	October 26, 2021
Project Number	21-033-007

MECH. FLOOR PLAN

M-3



EQUIPMENT SHOWN ON THIS PLAN IS NEW

MECHANICAL ROOF PLAN

SCALE: 3/32" = 1'-0"

0 2' 6' 12' 24' 30'

(#) KEYED PLAN NOTES:

1. ROOFTOP UNITS ARE NEW. ROOF CURBS ARE EXISTING. CUSTOM FABRICATED INSULATED ADAPTOR ROOF CURB IS REQUIRED.
2. SCHEDULE 40 PVC PIPE FOR CONDENSATE SHALL BE SUPPORT ON RUBBER SUPPORT BLOCKS AT 8' INTERVALS. ROUTE CONDENSATE TO BACK OF BUILDING INTO ROOF GUTTER. PAINT PIPE WITH WHITE UV RESISTANT PAINT. NOT TO BE INSULATED.
3. EXHAUST FAN IS NEW. ROOF CURB IS EXISTING. CUSTOM FABRICATED INSULATED ADAPTOR ROOF CURB IS REQUIRED.
4. ROOFTOP UNITS ARE REQUIRED TO INCLUDE DUCT-MOUNTED OR UNIT MOUNTED SMOKE DETECTORS. APPLIES TO ALL FOUR NEW ROOFTOP UNITS.

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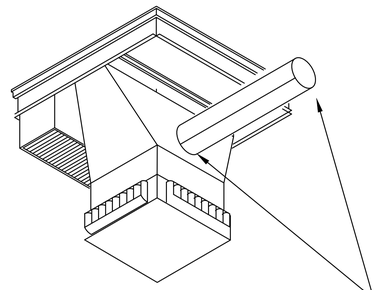
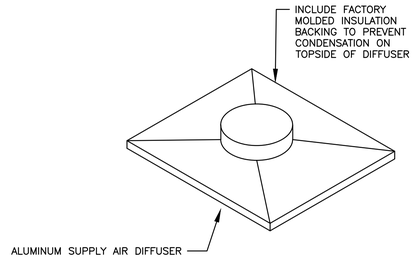
MECH. ROOF PLAN

M-4



INSULATION BACKING ON DIFFUSERS
No Scale

5



INSULATION BACKING ON DIFFUSERS
No Scale

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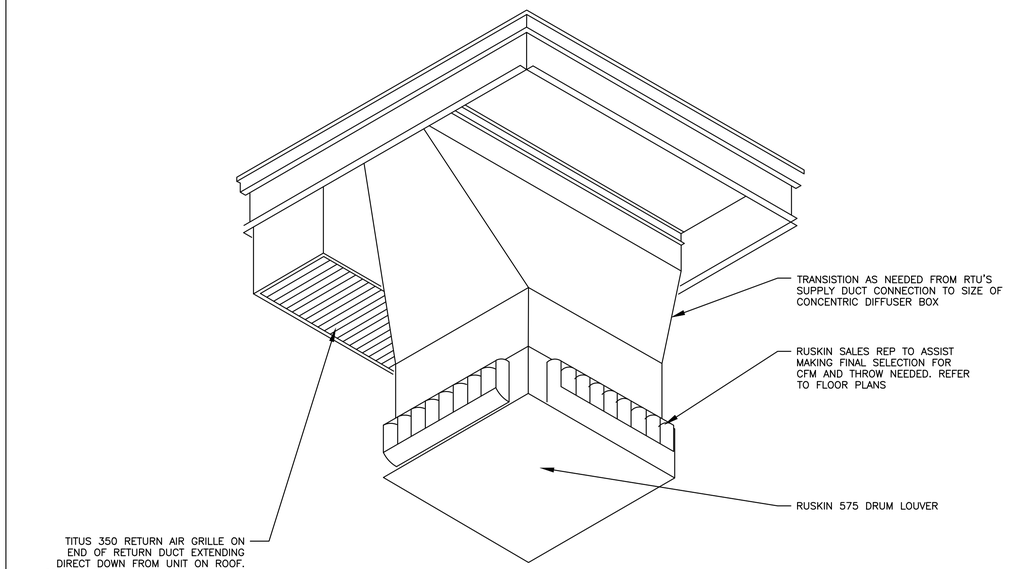
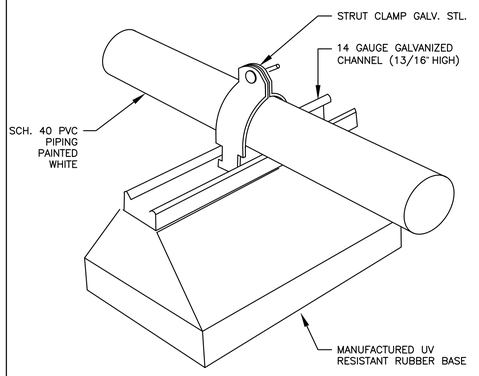


CONCENTRIC DIFFUSER DETAIL
No Scale

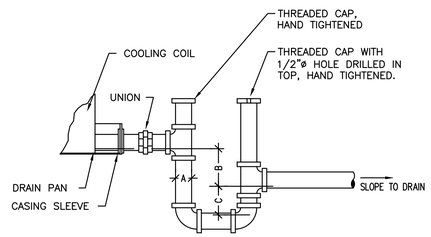
4



BASIS OF DESIGN: MIFAB MODEL CXP

ROOFTOP CONDENSATE SUPPORT DETAIL

2



AHU-1, 2, 3, AND 4 HAVE 2 INCHES OF FAN SUCTION STATIC PRESSURE.

CONDENSATE DRAIN PIPING DIMENSIONS:

A = FULL SIZE OF UNIT DRAIN CONNECTION
B ≥ 1.5 TIMES FAN SUCTION STATIC PRESSURE
C ≥ FAN DISCHARGE STATIC PRESSURE PLUS 1 INCH

COORDINATE MOUNTING/CURB HEIGHT AS REQUIRED TO PROVIDE PROPER CONDENSATE DRAINAGE.

RTU CONDENSATE P-TRAP DETAIL
No Scale

3

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MECH. DETAILS

M-5

ELECTRIC WATER HEATER SCHEDULE

PLAN SYMBOL	MANUFACTURER / MODEL	TANK SIZE	FIRST HOUR RATING GALLONS	RECOVERY (GPH) AT 90 F	R-VALUE ON TANK	OUTPUT TEMP	VOLTAGE /PH	KW	DIMENSIONS HxDIA.	WEIGHT (LBS.)	LOCATION	NOTES
EWH-1	AO SMITH ECT-40	40 GALLON	52	21	16	115'F	240/1	4.5	59.5" X 18" DIA,	106 DRY 450 FILLED	JANITORS CLOSET ON WALL BRACKET 8'-0" AFF	1,2,3,4, 5

NOTES:
1. INCLUDE INCLUDE AUXILIARY DRAIN PAN. ROUTE P/T RELIEF VALVE TO AUXILIARY PAN. DRAIN PAN TO FLOOR DRAIN
2. WATER HEATER SUPPORT BRACKET AND STRAPPED TO WALL STUDS.
3. WATER HEATER SHALL INCLUDE HEAT TRAPS EITHER EXTERNAL OR INTEGRAL TO WATER HEATER.
4. INCLUDE 2 GALLON EXPANSION TANK. ET-1
5. INCLUDE CP-1 A 115 VOLT RE-CIRCULATION PUMP FOR HOT WATER RETURN WITH AQUASTAT AND TIMER. ARMSTONG ASTRO 220SS. 115 VAC, 0.29 A, 33WATTS. LEAD-FREE.

PLUMBING FIXTURE SCHEDULE

TAG	ITEM	MANUFACTURER	MODEL	FIXTURE DESCRIPTION	CONNECTION SCHEDULE			
					WASTE	VENT	CW	HW
WC1	WATER CLOSET	KOHLER	K-3575	WELLWORTH CLASSIC TWO-PIECE ELONGATED TOILET VITREOUS CHINA WATER CLOSET WITH ELONGATED BOWL LOW CONSUMPTION FLUSH TANK 1.60 GPF WHITE TOILET SEAT OPEN FRONT NO COVER SEE FLOORPLAN, SOME UNITS NEED FLUSH VALVE ON ALTERNATE SIDE	3"	2"	1/2"	–
WC2	WATER CLOSET ADA	KOHLER	K-3493-0	COMFORT-HEIGHT ELONGATED TOILET, 1.60 GPF VITREOUS CHINA WATER CLOSET WITH ELONGATED BOWL LOW CONSUMPTION FLUSH TANK 1.60 GPF OPEN-FRONT ELONGATED TOILET SEAT	3"	2"	1/2"	–
LV1	WALL HUNG LAV ADA	KOHLER	K-2054-0	WHITE SOHO 18" WALL MOUNTED STEEL CONCEALED WALL CARRIER FAUCET K-10215-4-BN FORTÉ SINGLE-HANDLE BATHROOM SINK FAUCET (ADA) SINGLE-HOLE INSTALLATION ASME A112.18.1 TEMPERATURE MEMORY AND HIGH-TEMPERATURE LIMIT SETTING INSULATION KIT FOR DRAIN AND WATER CONNECTIONS UNDER SINK	2"	1-1/2"	1/2"	1/2"
SK1	DOUBLE COMPARTMENT SINK	KOHLER	--	DOUBLE COMPARTMENT DROP IN KITCHEN SINK WITH 3 FAUCET HOLES SINGLE COMPARTMENT. DROP-IN. FAUCET: SINGLE-HANDLE PULL-OUT SPRAYER KITCHEN FAUCET IN POLISHED CHROME	2"	1-1/2"	1/2"	1/2"
UR1	URINAL	KOHLER	K-4991-ET-0	WHITE BARDON 0.125 GPF WALL MOUNTED URINAL TOP SPUD K-7546-CP EXPOSED HYBRID 0.125 GPF WASHDOWN FLUSHOMETER 30-YEAR HYBRID ENERGY CELL ELECTRONIC INFRARED SENSOR	2"	2"	3/4"	–
MS1	SERVICE SINK	STERN-WILLIAMS	#900	"MOP SINK 24x24x12 MOLDED TERRAZZO 3 IN WASTE OUTLET WALL HUNG FAUCET STERN-WILLIAMS #T-10-VB WITH 5FT HOSE AND STAINLESS STEEL BACKSPLASH"	3"	2"	3/4"	3/4"
FD1	FLOOR DRAIN	ZURN	Z-415 W/TYPE "B" STRAINER	"FLOOR DRAIN WITH 5 INCH NICKALOY STRAINER TOP PROVIDE AUXILIARY INLET FITTING FOR TRAP PRIMER CONNECTION"	2"	2"	–	–
FCO	FLOOR CLEANOUT	ZURN	Z-1400	PROVIDE SCREW COVER MATCH SIZE OF PIPE	–	–	–	–
EWC-1	WATER COOLER	OASIS	PG8AC	"ELECTRIC WATER COOLER BARRIER FREE 8.0 GPH CAPACITY, 4.5 FLA 120V/1PH/60HZ STAINLESS STEEL CASING"	2"	1-1/2"	1/2"	–

PLUMBING PIPE & VALVE MATERIAL

SERVICE	MATERIAL	STANDARDS	PIPE JOINT	NOTES
DOMESTIC COLD WATER UNDERSLAB OR UNDERGROUND	SCHEDULE 80 PVC	ASTM D 1785	SOCKET FITTINGS ASTM D 2467	
	SCHEDULE 80 CPVC	ASTM F 441/F 441M	SOCKET FITTINGS ASTM F 439	
DOMESTIC COLD WATER ABOVE GRADE	SCHEDULE 40 PVC	ASTM D 1785	SOCKET FITTINGS ASTM D 2466	
	SCHEDULE 40 CPVC	ASTM F 441/F 441M	SOCKET FITTINGS ASTM F 438	
DOMESTIC HOT AND COLD WATER ABOVE SLAB	SCHEDULE 40 CPVC	ASTM F 441/F 441M	SOCKET FITTINGS ASTM F 438	
SANITARY U/G	SOLID-WALL PVC	ASTM D 2665, DRAIN, WASTE, AND VENT	SOCKET FITTINGS ASTM D 2665, MADE TO ASTM D 3311	
SANITARY ABOVE GRADE	SOLID-WALL PVC	ASTM D 2665, DRAIN, WASTE, AND VENT	SOCKET FITTINGS ASTM D 2665, MADE TO ASTM D 3311	
SANITARY VENT	SOLID-WALL PVC	ASTM D 2665, DRAIN, WASTE, AND VENT	SOCKET FITTINGS ASTM D 2665, MADE TO ASTM D 3311	

VALVES:
VALVES SHALL BE NSF 61 ANNEX G AND NSF 372 FOR VALVE MATERIALS FOR POTABLE WATER SERVICE.
BRONZE VALVES SHALL BE MADE WITH DEZINCIFICATION-RESISTANT MATERIALS. BRONZE VALVES MADE WITH COPPER ALLOY (BRASS) CONTAINING MORE THAN 15 PERCENT ZINC ARE NOT PERMITTED
ISOLATION VALVES: 1/4-TURN TWO-PIECE WITH FULL PORT AND STAINLESS-STEEL TRIM, MSS SP-110, CWP RATING: 600 PSIG.
DRAIN VALVES:: BRONZE GATE VALVES, RS, CLASS 125, MSS SP-80, TYPE 2, CWP RATING: 200 PSIG
CHECK VALVES: BRONZE CHECK VALVE WITH BRONZE DISC, MSS SP-80, TYPE 1, CWP RATING 200 PSIG.

PIPE INSULATION:
HOT WATER (HW) BELOW 140 F: PIPING 1" AND UNDER 3/4" ARMAFLEX, PIPING 1-1/4" AND ABOVE 1" ARMAFLEX
HOT WATER 140 F: 1" ARMAFLEX
HOT WATER RETURN (HWR): 3/4" ARMAFLEX
COLD WATER (CW): NONE

GENERAL NOTES

1. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH FLORIDA BUILDING CODE 7TH EDITION 2020 - PLUMBING VOLUME WHERE CONFLICTS OCCUR BETWEEN CODES THE MOST RESTRICTIVE REQUIREMENTS SHALL GOVERN.CONTRACTOR IS RESPONSIBLE FOR COMPLETING AND SUBMITTING ALL NECESSARY APPLICATIONS TO RECEIVE NECESSARY PERMITS FROM THE COUNTY (OR APPROPRIATE AUTHORITY HAVING JURISDICTION). CONTRACTOR IS RESPONSIBLE FOR ALL FEES AND RELATED COSTS ASSOCIATED WITH OBTAINING PERMITS. RELATED COSTS ARE TO INCLUDE BUT ARE NOT LIMITED TO ANY MILEAGE, TRAVEL COSTS, COURIER COSTS, POSTAGE, REPRODUCTION COSTS, ETC.
2. ALL FIXTURES, EQUIPMENT AND MATERIALS SHALL BE NEW AND SHALL BE EQUAL IN QUALITY, TYPE, CAPACITY TO THE FIXTURE OR EQUIPMENT NOTED ON THE DRAWINGS. ADJUSTMENTS TO CONSTRUCTION AND ACCESSORIES ON SUBSTITUTED EQUIPMENT OR FIXTURES MAY BE REQUIRED TO ACHIEVE THIS EQUALITY, AND SHALL BE INCLUDED AT NO EXTRA COST TO THE OWNER.
3. FIELD VERIFY EXISTING INSTALLATIONS. MODIFY EXISTING PLUMBING SYSTEMS, WHICH ARE TO REMAIN ACTIVE. TO FACILITATE RECONNECTION AND EXTENSION OF THE NEW WORK.
4. NOTIFY OWNER AT LEAST 24 HOURS PRIOR TO INTERRUPTING EXISTING SERVICE. SCHEDULE DISCONNECTION AND TIE-INS TO MINIMIZE DISRUPTION OF SERVICES. SERVICES ARE NOT TO BE LEFT DISRUPTED DURING NON-NORMAL CONTRACTOR WORKING HOURS.
5. PIPE ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO INDICATE EXACT ROUTING AND ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES. VERIFY STRUCTURAL, MECHANICAL AND ELECTRICAL INSTALLATIONS AND OTHER POTENTIAL OBSTRUCTIONS AND ROUTE PIPING TO AVOID INTERFERENCES.
6. COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT(PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY PIPING RUN OVER PANELS SHALL BE REROUTED AT NO ADDITIONAL COST.
7. PROVIDE ALL OFFSETS AND FITTINGS AND MAKE CONNECTION TO SITE UTILITIES.
8. CONCEAL PIPING ABOVE CEILINGS, WITHIN WALLS OR CHASES EXCEPT IN MECHANICAL ROOMS OR AS SPECIFICALLY NOTED. PROVIDE ACCESS PANELS FOR ALL VALVES CONCEALED IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS.
9. SLEEVE AND FIRE STOP PENETRATIONS OF RATED WALLS, FLOORS, CEILINGS AND ROOFS. FLASH AND COUNTERFLASH ROOF PENETRATIONS.
10. WHEN BEAM SLEEVE PENETRATIONS ARE NECESSARY, COORDINATE PENETRATIONS WITH ALL TRADES, THE ARCHITECT AND THE STRUCTURAL ENGINEER.
11. SEE ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
12. PROVIDE, WHEN REQUIRED BY CODE, AN AIR GAP SERVING INDIVIDUAL FIXTURES, DEVICES, APPLIANCES AND APPARATUS.
13. ALL EXPOSED PIPE AND FITTINGS IN FINISHED AREAS SHALL BE CHROME PLATED.
14. PROVIDE CLEANOUTS IN ACCORDANCE WITH APPROPRIATE CODES AND REGULATIONS.
15. COORDINATE EXACT FLOOR DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS. SET FLOOR DRAINS BELOW FINISH FLOOR TO ALLOW FOR FLOOR SLOPING TO THE DRAIN.
16. NO PLASTIC VALVES. ISOLATION VALVES SHALL BE 2-PIECE BRONZE BALL VALVES WITH STAINLESS STEEL TRIM AND BALL. 1/4-TURN. DRAIN VALVES SHALL BE GATE VALVES.
17. SEWER DRAIN LINES TO BE PURGED/JETTED/AUGURED/DE-SCALED TO THE MAIN PRIOR TO OCCUPANCY. JETTING MACHINE TO BE 3000 PSI AT MINIMUM. CAMERA ALL LINES TO INCLUDE ALL TOILET LINES UNDER THE BATHROOM SLAB TO THE MAIN AND SUBMIT A VIDEO OF THE CLEAN LINES. THE PLUMBER SHALL ISSUE A REPORT STATING THE CONDITION OF LINES IN REGARD TO AGE, BELLIES OR OTHER ISSUES, THIS MUST BE ON THE PLUMBERS LETTER HEAD AND SUBMITTED TO THE TENANTS CONSTRUCTION DEPARTMENT. THE REPORT MUST ALSO SHOW A DRAWING OF THE LOCATION OF ALL CLEAN OUTS. THERE MUST BE A CLEAN OUT AT THE EXTERIOR OF THE BUILDING WHERE THE SEWER LINE ENTERS THE BUILDING. ALL SEWER LINES OVER 50' MUST HAVE ONE CLEAN OUT ADDED INSIDE THE BUILDING AT THE CENTER OF THE SEWER LINE AND ALL SEWER LINES OVER 100' SHALL HAVE TWO CLEAN OUTS STRATEGICALLY LOCATED WITHIN THE SEWER LINE. THIS WORK SHALL BE DONE AT THE BEGINNING OF THE CONSTRUCTION PROCESS TO GIVE THE TENANT TIME TO VIEW THE VIDEOS. THIS WILL GIVE THE LANDLORD AMPLE TIME TO CORRECT ANY ISSUES IF FOUND. TENANT PREFERS THIS TO BE POSTED ON YOUTUBE AND LINK SENT TO THEM TO REVIEW.
18. IF A SITE HAS A SEWER GRINDER PUMP, THE LANDLORD SHALL PROVIDE THE TENANT A REPORT ON THE MAKE, MODEL, AGE AND CONDITION OF THE SEWER GRINDER PUMP PRIOR TO SIGNING THE LEASE.
19. ALL SINKS MUST HAVE HOT WATER (THIS INCLUDES MOP SINK).

DRAWING INDEX

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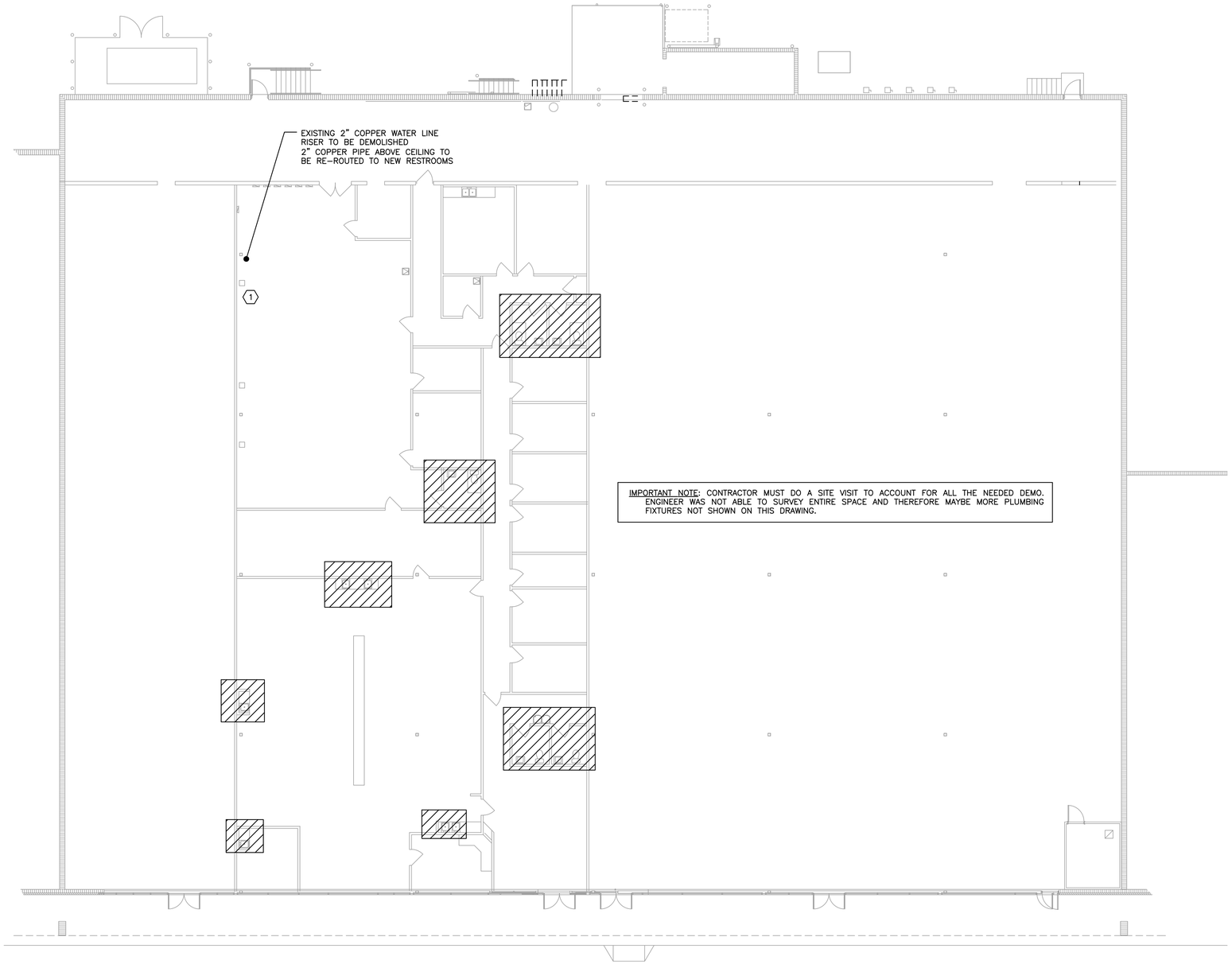
PLUMBING NOTES & SCHEDULES

P-1



IMPORTANT NOTE: CONTRACTOR MUST DO A SITE VISIT TO ACCOUNT FOR ALL THE NEEDED DEMO. ENGINEER WAS NOT ABLE TO SURVEY ENTIRE SPACE AND THEREFORE MAYBE MORE PLUMBING FIXTURES NOT SHOWN ON THIS DRAWING.

PLUMBING DEMOLITION PLAN

SCALE: 3/32" = 1'-0"

0 2' 6' 12' 24' 30'

(#) KEYED PLAN NOTES:

1. EXISTING WATER RISER TO BE REMOVED. 2" COPPER WATER LINE TO BE RE-ROUTED TO NEW RESTROOMS, JANITORS CLOSET, AND BREAKROOM.

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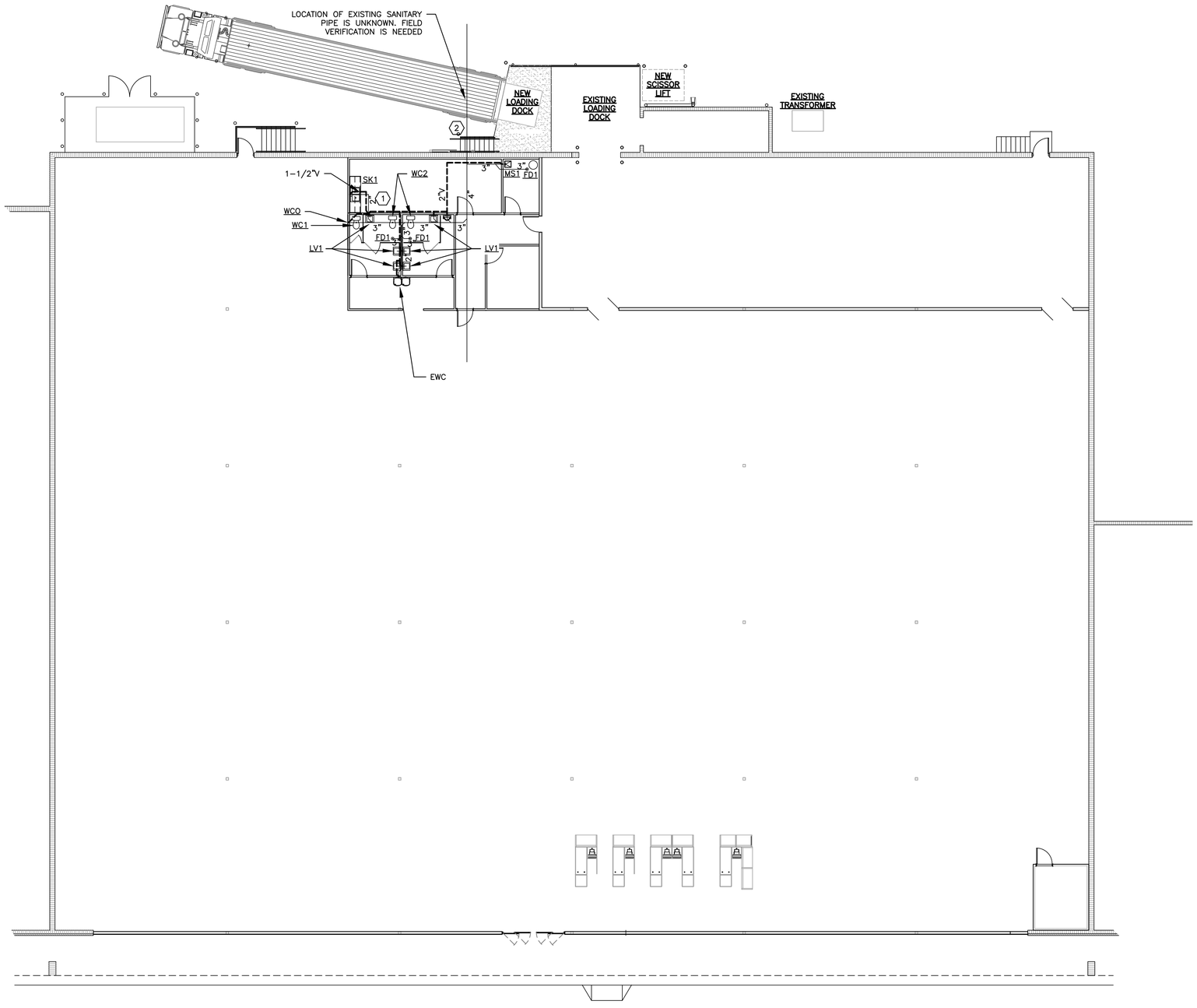
PLUMBING
DEMOLITION PLAN

P-2



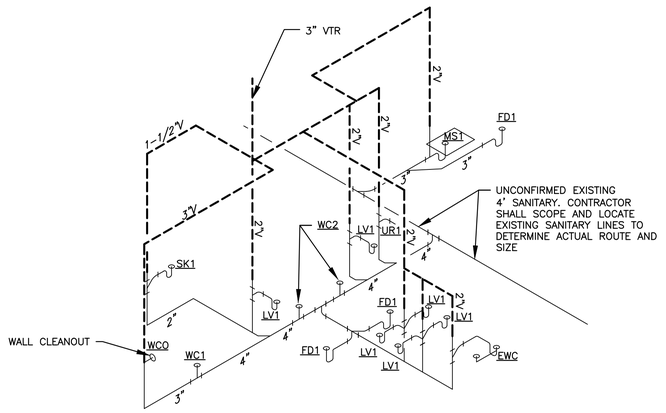
SANITARY PIPING PLAN

SCALE: 3/32" = 1'-0"

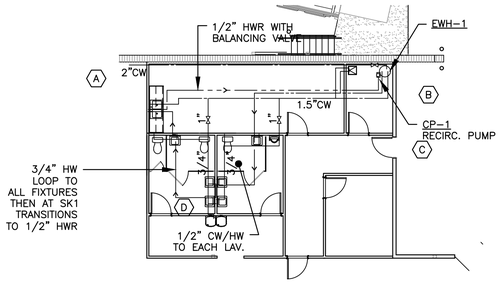
0 2' 6' 12' 24' 30'

KEYED PLAN NOTES:

1. 3" VENT THROUGH ROOF. OFFSET AND RE-ROUTE AS NEEDED TO UTILIZE AN EXISTING VTR SO AS TO AVOID MAKING NEW PENETRATION THROUGH EXISTING ROOF.
2. EXISTING SANITARY LINE. ROUTING, SIZE, AND EXISTENCE OF THIS SANITARY LINE IS NOT CONFIRMED. CONTRACTOR MUST FIELD LOCATE EXISTING SANITARY PIPING.



SANITARY PIPING DIAGRAM



WATER PIPING PLAN

SCALE: 3/32" = 1'-0"

0 2' 6' 12' 24' 30'

KEYED PLAN NOTES:

A. 2" WATER LINE FROM EXISTING RISER LOCATION RE-ROUTED TO JANITOR'S CLOSET AND WATER HEATER. INCLUDE ISOLATION VALVE TO SHUT OFF ALL COLD WATER.

B. INCLUDE DRAIN PAN UNDER WATER HEATER. DRAIN PIPED TO FLOOR DRAIN.

C. NOTE THAT HOT WATER INCLUDES A CIRCULATION PUMP CP-1 WITH TIMER AND AQUASTAT. INCLUDE 8" LENGTH OF COPPER TYPE L PIPE FOR MOUNTING AQUASTAT. DESIGN INCLUDES 2-GALLON EXPANSION TANK.

D. NOTE THAT HOT WATER PIPING FORMS A LOOP TO ASSURE HOT WATER MAIN IS WITHIN MINIMUM DISTANCES AS PRESCRIBED IN FECC. FECC REQUIREMENTS EXCEED THOSE IN THE FPC.

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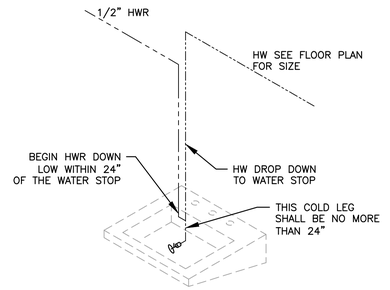
5th Revision	
4th Revision	
3rd Revision	
2nd Revision	
1st Revision	
Issue Date	October 26, 2021
Project Number	21-033-007

PLUMBING FLOOR PLAN

P-3

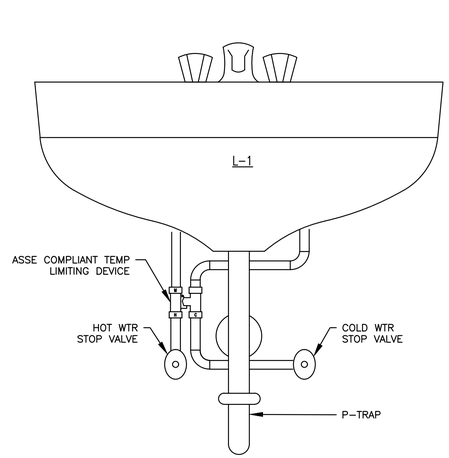


REFER TO FECC CHAPTER 4 TABLE C404.5.1

REFER TO FECC CHAPTER 4 TABLE C404.5.1"PIPING VOLUME AND MAXIMUM PIPING LENGTHS"

HOT WATER RETURN DIAGRAM
No Scale

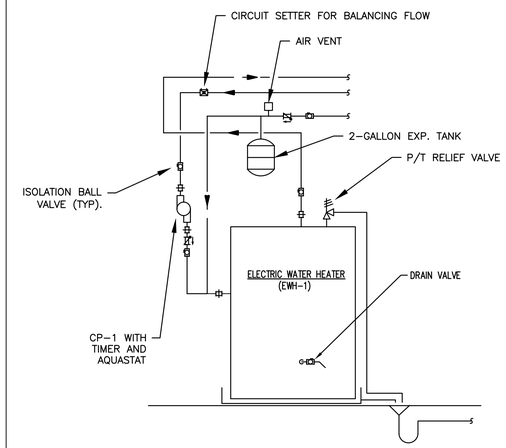
3



WATTS LEAD FREE SERIES LFUSG-B: THE LFUSG-B-M2 UNDER SINK GUARDIAN 3/8" (10MM) COMPRESSION AND QUICK-CONNECT FITTING THERMOSTATIC MIXING VALVES MAINTAIN AND LIMIT HOT WATER TO DESIRED SELECTABLE TEMPERATURE BETWEEN 80°F AND 120°F (27°C AND 49°C) WITH FLOW RATES AS LOW AS 0.5 GPM. STED TO ASSE STANDARD 1070 FOR SINGLE FIXTURE APPLICATIONS AND IAPMO CUPC. BUILT-IN CHECK VALVES INTEGRAL STRAINER WITH 40 MESH STAINLESS STEEL SCREENS.

ASSE 1070 TEMPERATURE LIMITING DEVICE
No Scale

2



ELECTRIC WATER HEATER
No Scale

1

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Do Not Scale The Drawings

5th Revision	
4th Revision	
3rd Revision	
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1st Revision	
Issue Date	October 26, 2021
Project Number	21-033-007

PLUMBING
DETAILS & RISERS

P-4

Sheet size: ARCH "D" (24"x36")

DESIGN NOTES:

CODES:

FLORIDA BUILDING CODE, SEVENTH EDITION 2020, ASCE 7-16

DESIGN DATA:

ULTIMATE WIND SPEED (3-SECOND GUST)	120 MPH
WIND EXPOSURE	C
BUILDING RISK CATEGORY	II
BUILDING TYPE	ENCLOSED
SOIL BEARING CAPACITY (DESIGN MAX.)	2500 PSF

LOADING:

ROOF LIVE LOAD	20 PSF
MINIMUM INTERNAL LATERAL WALLS LOADS	5 PSF

MATERIALS:

WIDE FLANGE STEEL	A572 OR A992 (50 KSI)
RECTANGULAR STRUCTURAL TUBING	A500 GRADE B (46 KSI)
ANGLES, CHANNELS AND PLATES	A36 (36 KSI)
STANDARD PIPE	A501 OR A53 GRADE B
HIGH STRENGTH BOLTS	A325N
ANCHOR BOLTS	A307
REINFORCING STEEL	A615 GRADE 60
WELDED WIRE FABRIC	A185
HEADED STUDS	A108
DEFORMED BAR ANCHOR (DBA)	A496
WELDING ELECTRODES	E70XX

CONCRETE (28 DAYS):

FOOTING	3000 PSI
SLAB ON GRADE	4000 PSI
ALL OTHER CONCRETE	3000 PSI
MAX. WATER-CEMET RATIO (3000 PSI CONC.)	0.55
MAX. WATER-CEMET RATIO (4000 PSI CONC.)	0.5
MAX. SLUMP (3000 PSI CONC.)	4" ± 1"
MAX. SLUMP (4000 PSI CONC.)	3" ± 1"

MASONRY

CONCRETE MASONRY UNIT (CMU)	C90, f'm = 1500 PSI (MIN.)
MORTAR	C270 TYPE M OR S BELOW GRADE, TYPE N ABOVE GRADE
GROUT	C476 2500 PSI

REINFORCED CONCRETE NOTES:

1. ALL CONCRETE WORK SHALL CONFORM TO THE CURRENT EDITION OF ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
2. ALL DEVICES NECESSARY FOR PLACING, SPACING, SUPPORTING AND FASTENING OF REINFORCEMENT SHALL CONFORM TO CRSI's MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION.
3. ALL CONCRETE PLACED SHALL BE VIBRATED BY MECHANICAL VIBRATORS.
4. LAP SPLICES FOR REINFORCED STEEL SHALL BE ACCORDANCE WITH THE CURRENT EDITION OF ACI 318. SPLICES SHALL BE AS CALLED FOR IN THE CURRENT EDITION OF THE CRSI MANUAL OF STANDARD PRACTICE.
5. SAMPLE OF TESTING SHALL BE TAKEN IN ACCORDANCE WITH ASTM C 172 AND SPECIMENS MADE IN ACCORDANCE WITH ASTM C 31. TESTING OF SPECIMENS SHALL BE IN ACCORDANCE WITH ASTM C39.
6. REINFORCING OF ALL CONCRETE MEMBERS SHALL HAVE THE FOLLOWING CLEAR CONCRETE COVER:

CONCRETE CAST AGAINST EARTH	3"
FORMED SURFACE IN DIRECT CONTACT WITH EARTH	2"
BEAMS, COLUMNS, WALLS & SURFACES EXPOSED TO WEATHER	1 1/2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER	3/4"

7. DOWELS FROM FOUNDATIONS OR SLABS TO WALLS SHALL MATCH WALL REINFORCING, UNLESS OTHERWISE NOTED. DOWELS SHALL BE PLACED BEFORE CONCRETE IS POURED.
8. STEPS IN FOOTINGS SHALL NOT EXCEED A SLOPE OF ONE (1) VERTICAL TO TWO (2) HORIZONTAL.
9. PROVIDE A MINIMUM OF TWO #5 BARS IN TOP OF CONTINUOUS WALL FOOTINGS AT DOOR AND OTHER OPENINGS, 4'-0" LONGER THAN THE OPENING.
10. PROVIDE 1/2" PREMOLDED EXPANSION JOINT MATERIAL WHERE SLAB ON GRADE IS POURED AROUND COLUMNS AND AGAINST GRADE BEAMS OR WALLS, UNLESS OTHERWISE SHOWN OR NOTED.

SLAB ON GRADE NOTES:

1. ALL SLABS ON GRADE TO BE IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDING-ACI 301.
2. NON-LOADING BEARING CMU WALLS SHALL HAVE THICKENED SLAB FOOTING PER DETAILS.
3. THE FLOOR SHALL BE KEPT SATURATED AND COVERED FOR THE TEN DAY CURING PERIOD.
4. THE SLAB SHALL BE THOROUGHLY FINISHED BY MACHINE TROWELING, TO PRODUCE A UNIFORMLY DENSE SURFACE.
5. COMPACTION TESTS UNDER THE FOOTINGS AND SLABS ON GRADE SHALL BE TAKEN AS RECOMMENDED BY GEOTECHNICAL ENGINEER.
6. CONTRACTION JOINTS SHALL BE PROVIDED IN ALL SLABS ON GRADE WHERE INDICATED ON PLANS AND AS SHOWN ON DETAILS IF NOT SPECIFIED, CONTRACTION JOINTS SHALL BE PROVIDED AT 12'-0" O.C.
7. PLACE A VAPOR BARRIER BENEATH ALL SLABS ON GRADE. EXERCISE CARE THAT THE VAPOR BARRIER IS NOT DAMAGED PRIOR TO PLACEMENT OF CONCRETE.
8. SAW CUT JOINTS IN SLAB ON GRADE SHALL BE ACCOMPLISHED WITHIN 24 HOURS OF SLAB PLACEMENT.
9. THE CONTRACTOR SHALL PROVIDE CHAIRS AT 4'-0" CENTER TO CENTER TO SUPPORT WIRE MESH WHILE CASTING SLAB. PULL FABRIC UP BETWEEN SUPPORTS TO PROVIDE 2" CLEARANCE TO TOP OF SLAB.

REINFORCED MASONRY NOTES:

1. ALL MASONRY CONSTRUCTION SHALL COMPLY WITH THE CURRENT EDITION OF ACI 530 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES".
2. FILL ALL CELLS BELOW FINISHED GRADE.
3. PROVIDE #9 GALV. HORIZONTAL JOINT REINFORCEMENT IN WALL AT 16" O.C. VERTICALLY U.O.N.
4. PROVIDE VERTICAL CONTROL JOINTS AT 24'-0" O.C. MAXIMUM..
5. PROVIDE ONE #5 BAR VERTICAL MINIMUM AT ALL CORNERS, INTERSECTIONS AND EACH SIDE OF CONTROL JOINT.
6. PROVIDE TWO #5 BARS VERTICAL MINIMUM AT 8" O.C. AT ENDS OF WALLS.
7. PROVIDE ONE #5 BAR VERTICAL MINIMUM EACH SIDE OF OPENING 4'-0" WIDE OR LESS.
8. PROVIDE TWO #5 BARS VERTICAL MINIMUM AT 8" O.C AT EACH SIDE OF OPENING GREATER THAN 4'-0" WIDE
9. THE REINFORCEMENT SHOULD EXTEND FROM THE FOOTING TO THE UPPER MOST TIE BEAM, TYPICALLY TOP OF THE WALL.
10. WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH CORE OF A BLOCK, THE DOWEL MAY BE SLOPED SUCH THAT THE SLOPE DOES NOT EXCEED ONE HORIZONTAL TO 8 VERTICAL.
11. CMU WALLS SHALL BE PROPERLY BRACED TEMPORARILY DURING CONSTRUCTION.
12. TIE BEAMS SHALL BE CONTINUOUS THROUGH CONTROL JOINTS.
13. ALL REINFORCED VERTICAL CELLS SHALL BE GROUTED WITH MAXIMUM 5'-0" LIFTS.

STRUCTURAL STEEL NOTES:

1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE CURRENT EDITION OF A.I.S.C.
2. SHOP DRAWING FOR STRUCTURAL STEEL SHALL BE SUBMITTED AND APPROVED PRIOR TO ANY FABRICATION.
3. ALL WELDS SHALL CONFORM TO AWS 2011, "STRUCTURAL WELDING CODE".
4. GROUT USED IN GROUT BEDS UNDER COLUMNS BASE PLATES SHALL BE CEMENT BASED, NON-SHRINK GROUT.
5. THE STRUCTURAL STEEL ERECTOR SHALL PROVIDE TEMPORARY BRACING OF THE STRUCTURAL STEEL FRAME WORK AGAINST LATERAL LOADING SUCH AS WIND. THIS BRACING SHALL REMAIN IN PLACE UNTIL THE FINAL SYSTEM FOR RESISTING LATERAL LOADS IS IN PLACE.
6. ALL STRUCTURAL STEEL ITEMS SHALL RECEIVE ONE SHOP COAT OF RUST INHIBITIVE PAINT UNLESS OTHERWISE SPECIFIED OR INDICATED, PAINT SHALL BE OF GRAY COLOR.

GENERAL REQUIREMENTS:

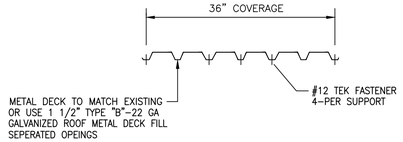
1. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
2. DO NOT SCALE THESE DRAWINGS / USE DIMENSIONS INDICATED.
3. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
4. NO OPENINGS SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT A WRITTEN APPROVAL OF THE ARCHITECT.
5. THE STRUCTURAL ENGINEER SHALL NOT HAVE CONTROL OR BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES OR SEQUENCES, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, OR ANY OTHER PERSONS PERFORMING THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

LIGHT GAUGE METAL FRAMING:

1. THE LIGHT GAUGE METAL FRAMING SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC ONLY. MEMBER SIZES, CONFIGURATIONS, DETAILS AND CONNECTIONS SHALL BE DESIGNED BY THE SUPPLIER DELEGATED ENGINEER, WHO SHALL BE REGISTERED ENGINEER IN THE STATE OF FLORIDA.
2. SIGNED AND SEALED SHOP DRAWINGS WITH CALCULATIONS SHALL BE SUBMITTED TO ENGINEER OF RECORD FOR APPROVAL BEFORE START CONSTRUCTION. SHOP DRAWINGS SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWINGS ITEMS:
   A. EXTERIOR AND LOAD BEARING WALLS DESIGN.
   B. DESIGN OF OPENINGS INCLUDING HEADERS, JAMBS & SILLS.
   C. DESIGN OF EXTERIOR SOFFITS & CEILINGS.
   D. CONNECTIONS AND ATTACHMENTS TO EXISTING STRUCTURE.
3. ALL LIGHT GAUGE METAL FRAMING SHALL BE DESIGNED IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (AISC) "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURE MEMBERS".
4. ALL FRAMING MEMBERS SHALL BE FORMED FROM STEEL WITH A MINIMUM YIELD STRENGTH AS FOLLOWING:
   18 GAUGE SECTIONS & LIGHTER Fy (MINIMUM) = 33 KSI
   16 GAUGE SECTIONS & HEAVIER Fy (MINIMUM) = 50 KSI
5. ALL FRAMING SHALL BE HOT DIPPED GALVANIZED.
6. ALL CONNECTIONS SHALL BE SCREWED OR WELDED. ALL WELDS SHALL BE TOUCHED UP WITH ZINC-RICH PAINT.
7. POWER DRIVEN FASTENERS ARE NOT ACCEPTABLE FOR ANY STRUCTURAL APPLICATION UNLESS THEY COMPLETELY PENETRATE THE STRUCTURAL STEEL.
8. STUD WALL FRAMING SHALL HAVE CONTINUOUS SHEATHING ON EACH SIDE, OTHERWISE LATERAL BRACING SHALL BE INSTALLED AT A MAXIMUM SPACING OF 48".

ROOF METAL DECK REPAIRS AND ROOF OPENING FILL:

EXISTING ROOF METAL DECK REPAIR AND EXISTING OPENING FILL SHALL BE CONDUCTED WITH USING THE FOLLOWING DIAGRAM.



ROOF DECK ATTACHMENT DIAGRAM (36/5/4 PATTERN)

1. DECK SHALL BE ATTACHED TO ALL STRUCTURAL SUPPORT WITH #12 TEK SCREWS
2. SIDE LAPS BETWEEN STRUCTURAL SUPPORTS SHALL BE FASTENED BY #10 TEK SCREWS
3. ATTACHMENT AROUND OPENINGS SHALL BE #12 TEK SCREWS
4. ATTACHMENT AT SIDE SUPPORTS ALONG PERIMETER SHALL BE #12 TEK SCREWS @ 12" O.C. (METAL ANGLE)
5. ATTACHMENT AT SIDE SUPPORTS ALONG PERIMETER SHALL BE 5/8" DIA PUDDLE WELDS @ 12" O.C (STEEL PLATE OR ANGLE)
6. END LAPS SHALL BE A MINIMUM OF 3" AND SHALL OCCUR OVER SUPPORT

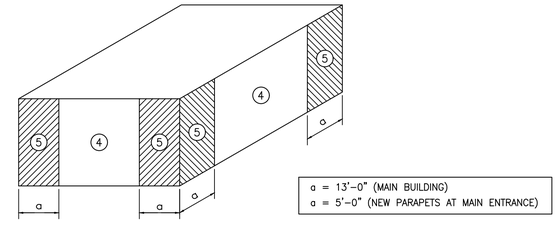
ALUMINUM CANOPY NOTES:

1. CANOPY DESIGN SHALL BE ACCORDING WITH THE FOLLOWING CODES AND STANDARDS:
   FLORIDA BUILDING CODE, SEVENTH EDITION 2020.
   ASCE 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
   ALUMINUM DESIGN MANUAL 2015

   CANOPY DESIGN DEAD LOAD = SELF WEIGHT
   CANOPY DESIGN ROOF LIVE LOAD = 20 PSF
   CANOPY DESIGN WIND LOAD PER MAIN DESIGN CRITERIA ON THIS SHEET
2. CANOPY COLOR SHALL AND TYPE SHALL BE ACCORDING TO ARCHITECTURAL DRAWINGS.
3. ALL EXTERIOR FLASHING AROUND THE CANOPY AND EXTERIOR OPENING EDGES FLASHING SHALL MATCH CANOPY COLOR.
6. CANOPY ROOF EAST END SHALL BE CONNECTED TO EXISTING MASORY WALL. AT WEST END CANOPY SHALL BE SUPPORTED BY THREE PROPOSED COLUMNS. DESIGN SHALL INCULED COLUMNS DETAILS AND CONNECTIONS.
7. CONTRACTOR SHALL SUBMIT SIGNED AND SEALED CANOPY SHOP DRAWINGS DESIGNED BY SPECIALTY REGISTERED ENGINEER IN FLORIDA BEFORE START CONSTRUCTION. SHOP DRAWINGS SHALL INCLUDE ALL ATTACHMENTS DETAILS.

STRUCTURAL ABBREVIATIONS

A.B.	ANCHOR BOLT
ARCH	ARCHITECTURAL
@	AT
BM	BEAM
BRG	BEARING
BOT	BOTTOM
BLDG	BUILDING
CL	CENTER LINE
C.I.P.	CAST IN PLACE
CJ	CONTROL JOINT
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONT	CONTINUOUS
D	DEPTH
DAB	DEFORMED ANCHOR BAR
DBL	DOUBLE
DIAG	DIAGONAL
DIA	DIAMETER
DIM	DIMENSION
DWG	DRAWING
DN	DOWN
DWL	DOWEL
EA	EACH
EF	EACH FACE
EW	EACH WAY
ELEV. EL	ELEVATION
EQ	EQUAL
EXIST	EXISTING
EXP	EXPANSION
EJ	EXPANSION JOINT
FFE	FINISHED FLOOR ELEVATION
FL. FLR	FLOOR
FS	FAR SIDE
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
HD STUDS	HEADED STUDS
HK	HOOK
HORIZ	HORIZONTAL
INFO	INFORMATION
INT	INTERIOR
JT	JOINT
LG	LONG
LLV	LONG LEG VERTICAL
LLH	LONG LEG HORIZONTAL
L.W.	LONG WAY
MECH	MECHANICAL
MAX	MAXIMUM
MC	MOMENT CONNECTION
MEZZ	MEZZANINE
MTL	METAL
MIN	MINIMUM
MISC	MISCELLANEOUS
NO	NUMBER
NTS	NOT TO SCALE
O.C.	ON CENTER
OPNG	OPENING
OHD	OVER HEAD DOOR
PAF	POWDER ACTUATED FASTENERS
PL	PLATE
PSF	POUNDS PER SQ. FOOT
PSI	POUNDS PER SQ. INCH
REF	REFERENCE
REV	REVISION
REINF	REINFORCING
REQ'D	REQUIRED
SCHD, SCHED	SCHEDULE
SECT	SECTION
SIM	SIMILAR
SL	SLOPE
SS	STAINLESS STEEL
STD	STANDARD
SPECS	SPECIFICATIONS
SQ	SQUARE
S.W.	SHORT WAY
T	TOP
T & B	TOP & BOTTOM
T/S	TOP OF STEEL
T/B	TOP OF BEAM
T/SLAB	TOP OF SLAB
T/FTG	TOP OF FOOTING
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
W/	WITH
W/O	WITHOUT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
±	PLUS/MINUS



WIND ZONES FOR WALL COMPONENTS AND CLADDING

N.T.S.

ULTIMATE COMPONENT AND CLADDING WIND PRESSURE (PSF)

AREA SQ. FT.	ROOF			WALLS			OVERHANGS		PARAPETS		
				INWARD	OUTWARD				INWARD	OUTWARD	
	ZONE ①	ZONE ②	ZONE ③	ZONE ④&⑤	ZONE ④	ZONE ⑤	ZONE ②	ZONE ③	ZONE ④&⑤	ZONE ④	ZONE ⑤
10	54.2	71.5	71.5	34.0	36.9	45.6	66.3	66.3	100.8	64.2	73.3
20	50.6	66.9	66.9	32.5	35.4	42.5	60.2	60.2	94.3	60.9	68.5
50	45.9	60.8	60.8	30.5	33.3	38.4	52.1	52.1	85.8	56.6	62.0
100	42.9	56.2	56.2	28.9	31.8	35.4	46.0	46.0	79.3	53.4	57.2

NOTE: FOR ALLOWABLE WIND PRESSURE, MULTIPLY ULTIMATE WIND PRESSURE BY 0.6

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Faris S. Daoud

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DN: cn=US, o=Unaffiliated, ou=A01410D0000017140C7A0000A1E0, email=Architect.Jax@gmail.com, c=US
Date: 2021.08.19 14:54:43 -04'00'
Adobe Acrobat DC version: 2021.001.20135

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Do Not Scale The Drawings

5th Revision	
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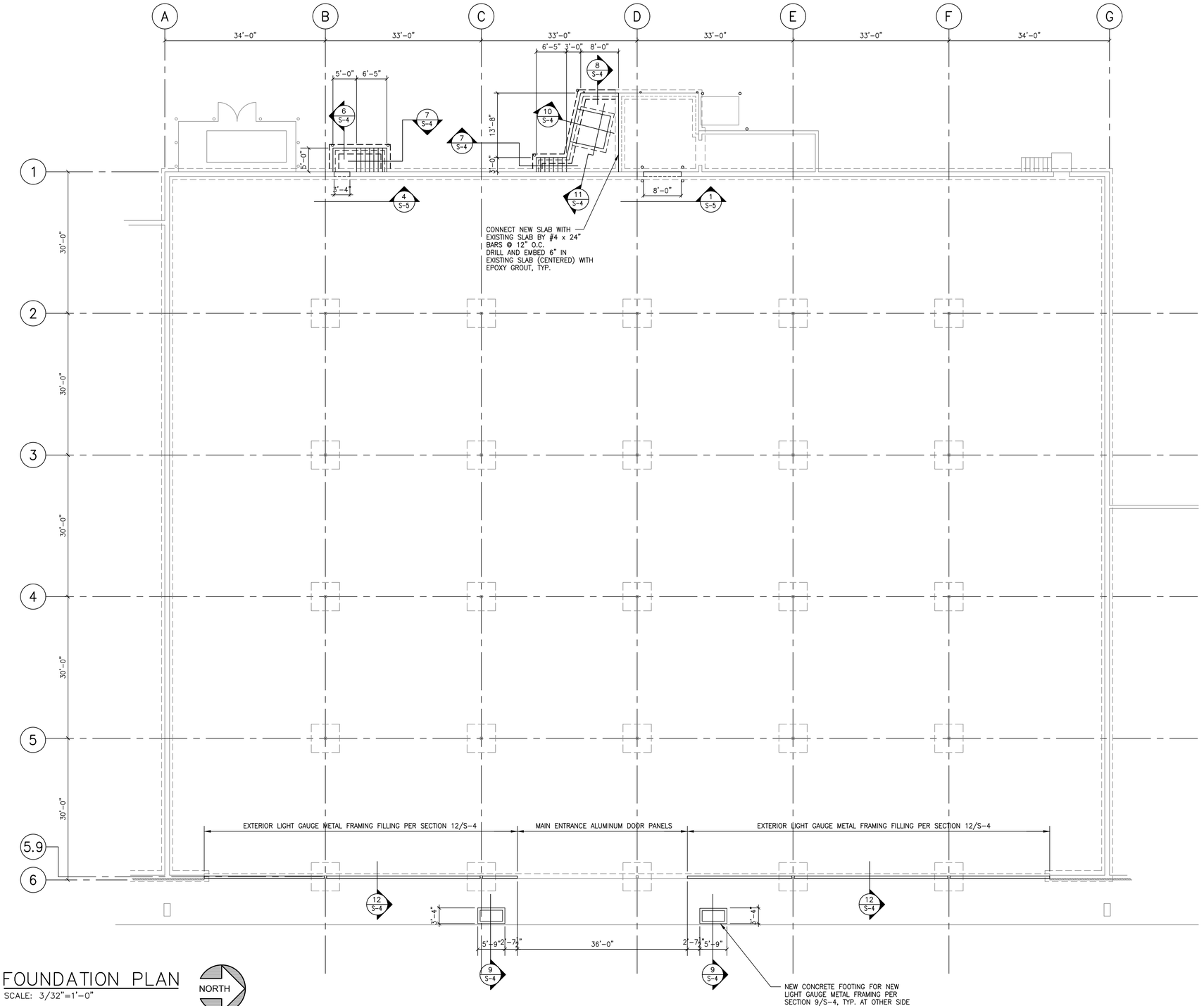
Project Number	20210607

DESIGN NOTES AND DETAILS

S-1

Sheet size: ARCH "D" (24"x36")



FOUNDATION PLAN

SCALE: 3/32"=1'-0"

NORTH

NOTES:

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND DIMENSION IN THE FIELD BEFORE START CONSTRUCTION.
2. SEE DESIGN NOTES ON THIS SHEET S-1.
3. ALL ITEMS TO BE REMOVED SHOULD BE TOTALLY SAW CUT AND SEPARATED FORM THE MAIN STRUCTUURE FIRST. STRUCTURAL INTERGRITY OF ALL STRUCTURAL ELEMENTS TO BE REMAINED SHOULD BE WELL MAINTAINED.
4. CONTRACTOR TO VERIFY IN THE FIELD AND COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR ITEMS TO BE DEMO.
5. CONTRACTOR SHALL SUBMIT SHOP DRAWING FOR MAIN ENTRANCE ALUMINUM DOOR PANELS COMPLY WITH LOADING DESIGN CRITERIA, INCLUDING INSTALLATION ATTACHMENTS DETAILS.

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Faris S Daoud

Digitally signed by Faris S Daoud
DN: cn=Faris S Daoud, o=Unaffiliated, ou=A01410D0000017140C7A0000A0E0, email=Architect.Jax@gmail.com, c=US
Date: 2021.10.25 12:54:55 -04'00'
Reason: I am the author of this document
Location: I am signing location is here

FARIS S. DAOUD
LICENSE
No.51340
STATE OF FLORIDA
PROFESSIONAL ENGINEER

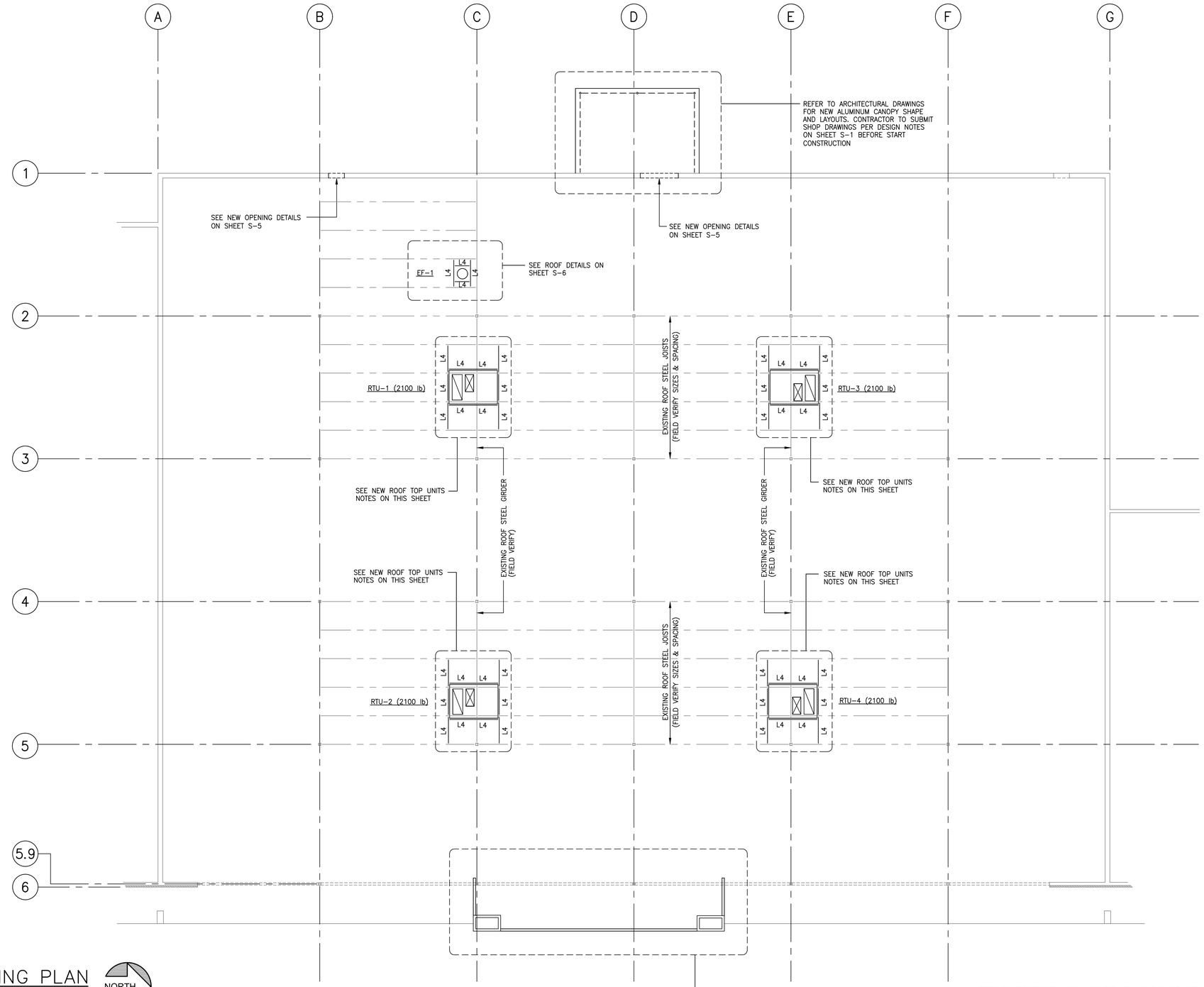
Do Not Scale The Drawings

5th Revision	
4th Revision	
3rd Revision	
2nd Revision	
1st Revision	
Issue Date	Oct. 25, 2021
Project Number	20210607

FOUNDATION PLAN

S-2

Sheet size: ARCH "D" (24"x36")



ROOF FRAMING PLAN

SCALE: 3/32"=1'-0"

NORTH

NOTES:

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND DIMENSION IN THE FIELD BEFORE START CONSTRUCTION.
2. SEE DESIGN NOTES ON THIS SHEET S-1.
3. ALL ITEMS TO BE REMOVED SHOULD BE TOTALLY SAW CUT AND SEPARATED FORM THE MAIN STRUCTUURE FIRST STRUCTURAL INTERGRITY OF ALL STRUCTURAL ELEMENTS TO BE REMAINED SHOULD BE WELL MAINTAINED.

NEW ROOF TOP UNITS NOTES:

1. CONTRACTOR SHALL SUBMIT STEEL ROOF SHOP DRAWINGS TO SUPPORT THE NEW ROOF TOP UNITS. SHOP DRAWINGS SHALL BE DESIGNED AND SIGNED AND SEALED BY REGISTERED ENGINEER IN FLORIDA.
2. EXISTING ROOF FRAMING ELEMENTS SHALL BE VERIFIED IN THE FILED TO SPECIFY THE SIZES AND SPACING.
3. STRENGTHENING OF EXISTING ROOF ELEMENTS AT THE SUBJECT RTU'S LOCATION SHALL DESIGNED AS REQUIRED TO SUPPORT THE NEW UNITS LOADING.
4. REFER TO SHEET S-5 DETAILS FOR REFERENCE AND CONCEPT DESIGN OF ROOF FRAMING AND STRENGTHENING THE EXISTING FRAMING FOR THE SUPPORT OF NEW RTU'S.
5. L4 REFER TO NEW STEEL ANGLES AT THE PERIMETER OF NEW RTU'S CURBS.
6. MECHANICAL ENGINEER TO REVIEW DUCTS OPENING SIZES ACCORDING TO THE AVAILABLE JOISTS SPACING, WHICH SHOULD BE VERIFIED IN THE FIELD.

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Faris S Daoud

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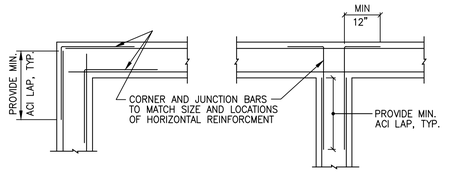
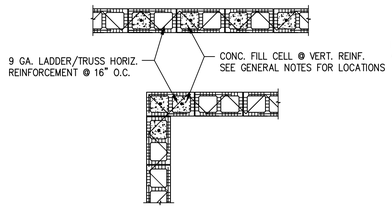
ROOF FRAMING PLAN

S-3



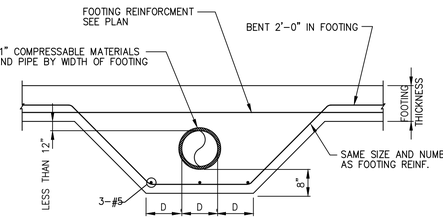
TYPICAL WALL & FOOTING REINFORCING DETAIL

DETAIL 1 S-4
SCALE: N.T.S.



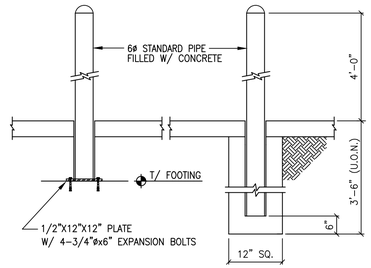
TYP. HORIZ. MASONRY REINFORCING

DETAIL 2 S-4
SCALE: N.T.S.



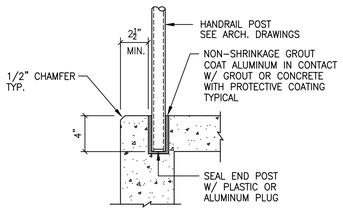
TYP. FOOTING DETAIL AT PIPES LOCATIONS

DETAIL 3 S-4
SCALE: N.T.S.



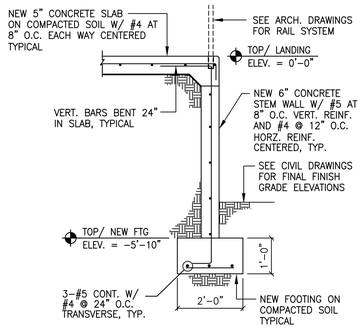
TYP. GUARD POST DETAIL

DETAIL 4 S-4
SCALE: N.T.S.

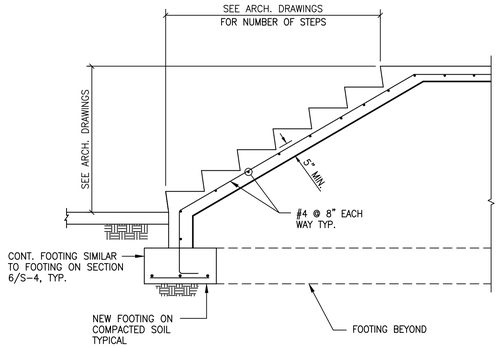


HANDRAIL EMBED DETAIL

DETAIL 5 S-4
SCALE: N.T.S.



SECTION 6 S-4
SCALE: 1/2"=1'-0"



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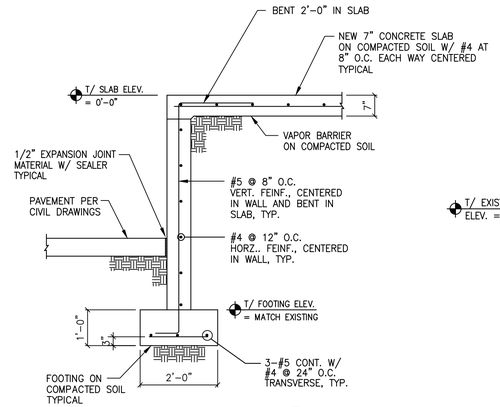

SECTION 8 S-4
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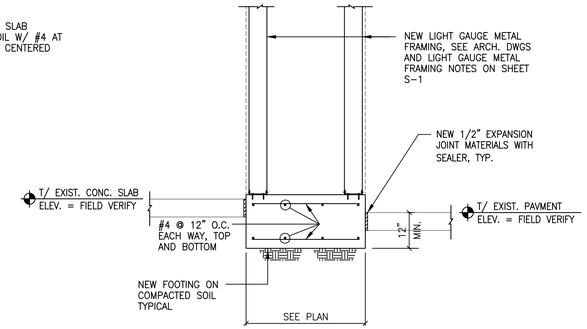
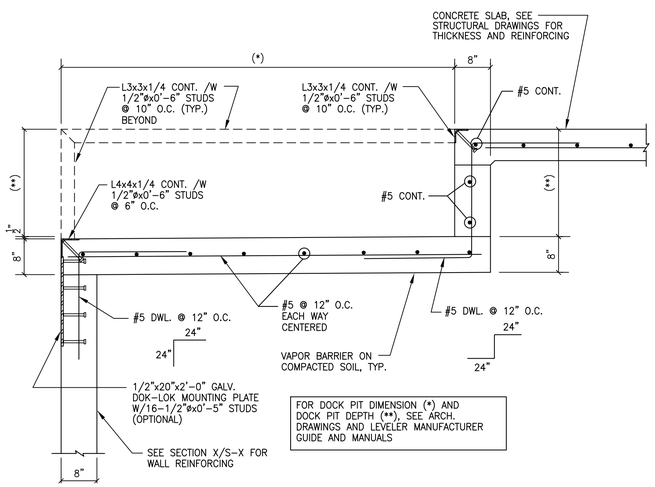
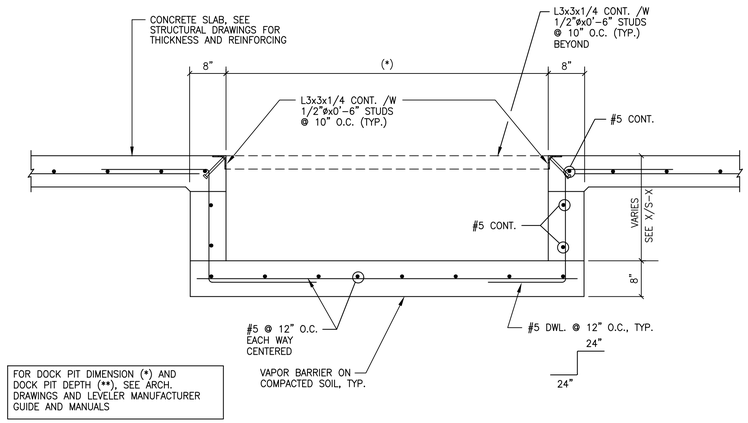


SECTION 9 S-4
SCALE: 1/2"=1'-0"



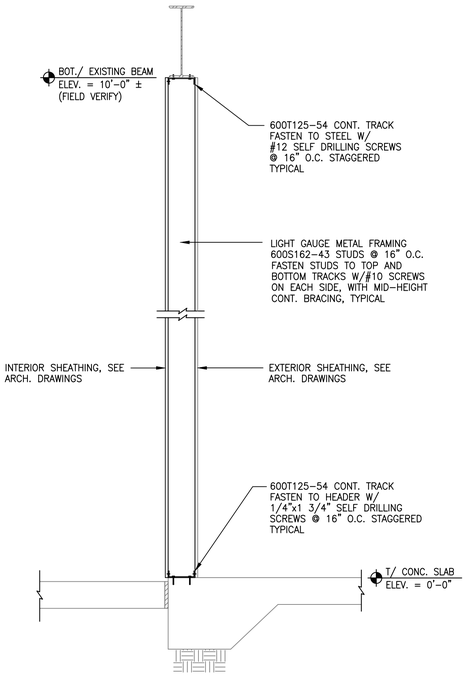
LONGITUDINAL – SECTION THRU DOCK PIT

SECTION 10 S-4
SCALE: 3/4"=1'-0"



SECTION THRU DOCK PIT

SECTION 11 S-4
SCALE: 3/4"=1'-0"



SECTION 12 S-4
SCALE: 3/4"=1'-0"

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Date: 2021.10.25 11:47:24 -04'00'

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1st Revision	
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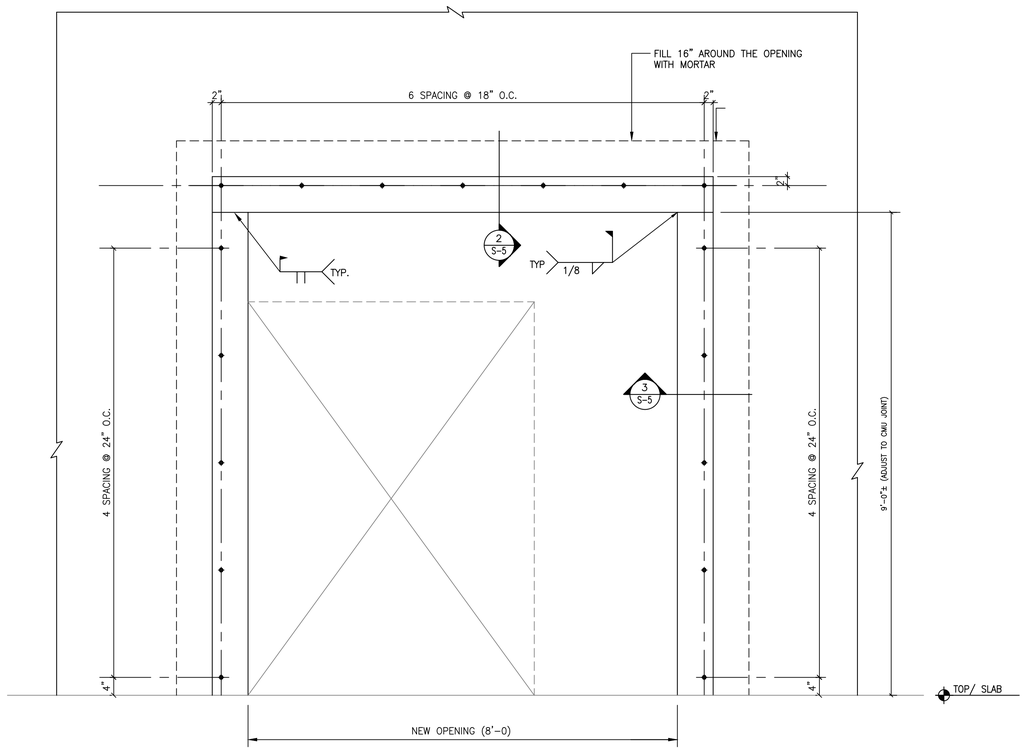
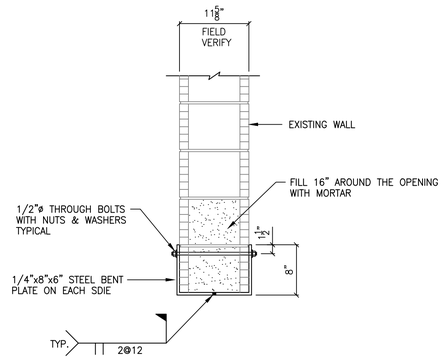
SECTIONS AND DETAILS

S-4

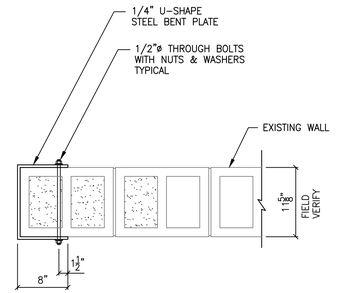


PROFILE
SCALE: 3/4"=1'-0"
1
S-5



NEW OPENING—HEADER DETAIL

SECTION
SCALE: 1"=1'-0"
2
S-5

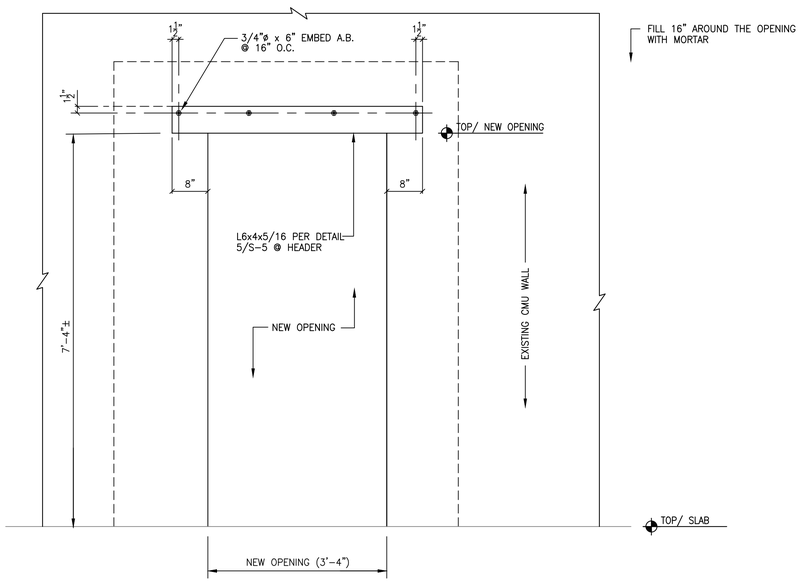


NEW OPENING—JAMB DETAIL

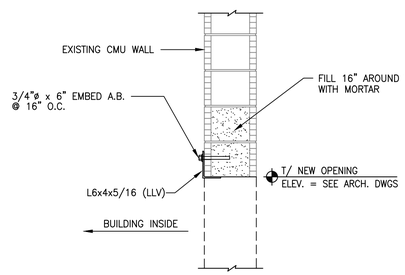
SECTION
SCALE: 1"=1'-0"
3
S-5

CONSTRUCTION SEQUENCE:

1. SAW CUT CMU @ HEADER JOINT/ LIMITED DEPTHS TO INSTALL NEW STEEL ANGLE AT ONE SIDE.
2. INSTALL LINTEL ANGLE AT ONE SIDE.
3. SAW CUT CMU @ HEADER JOINT/ REMAING HALF DEPTHS TO INSTALL NEW STEEL ANGLE AT THE OTHER SIDE.
4. INSTALL LINTEL ANGLE AT THE OTHER SIDE.
5. INSTALL HEADER THRU BOLTS AS SPECIFIED IN SECTION AND PROFILE.
6. SAW CUT THE MASONRY OPENING.
7. WELD BOTTOM OF HEADERS PER SECTION 2/S-5.
8. INSTALL U-SHAP STEELS AT OPENING JAMBS PER SECTION 3/S-5.
9. WELD JAMBS TO HEADERS AT THREE SIDES, BOTH ENDS, PER PROFILE.
10. FILL MINIMUM 16" WIDTH/ FULL HEIGHT CMU NEW SIDES OF OPENINGS WITH MORTAR.



PROFILE
SCALE: 3/4"=1'-0"
4
S-5



CONSTRUCTION SEQUENCE:

1. SAW CUT CMU @ HEADER JOINT/ LIMITED DEPTHS TO INSTALL NEW STEEL ANGLE.
2. INSTALL LINTEL ANGLE.
3. INSTALL ANCHOR BOLTS AS SPECIFIED IN SECTION AND PROFILE.
4. SAW CUT THE MASONRY OPENING.
5. FILL MINIMUM 16" WIDTH AT NEW OPENING PERIMETER WITH MORTAR.
6. REPAIR EDGES AND SLAB AROUND THE OPENING.

SECTION
SCALE: 3/4"=1'-0"
5
S-5

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Adobe Reader version: 2020.013.20074

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CITIZEN
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STATE OF FLORIDA
PROFESSIONAL ENGINEER

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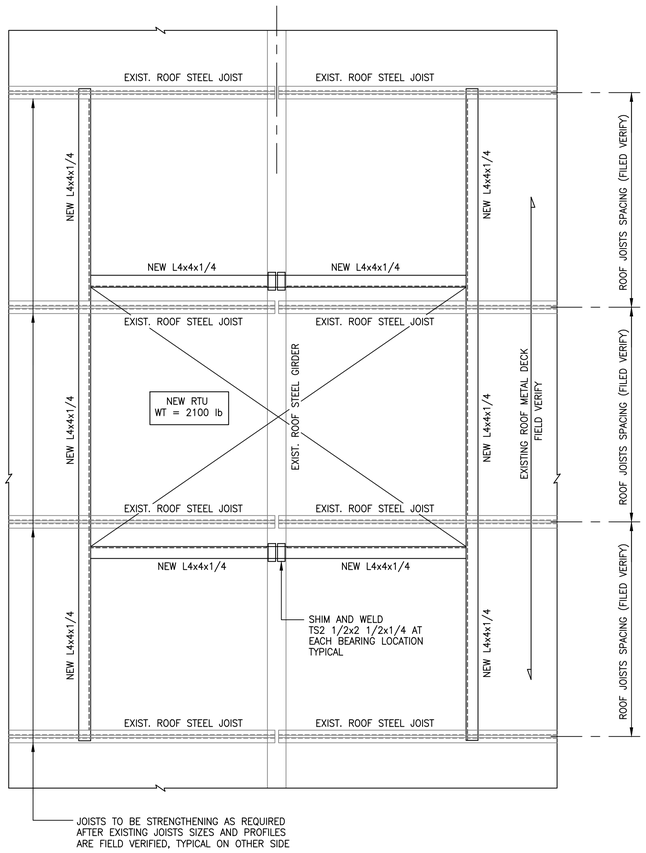
SECTIONS AND DETAILS

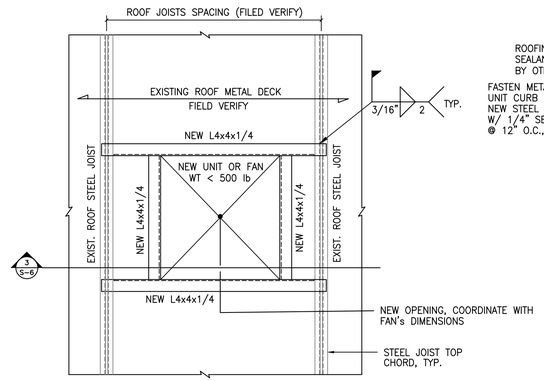
S-5

Sheet size: ARCH "D" (24"x36")



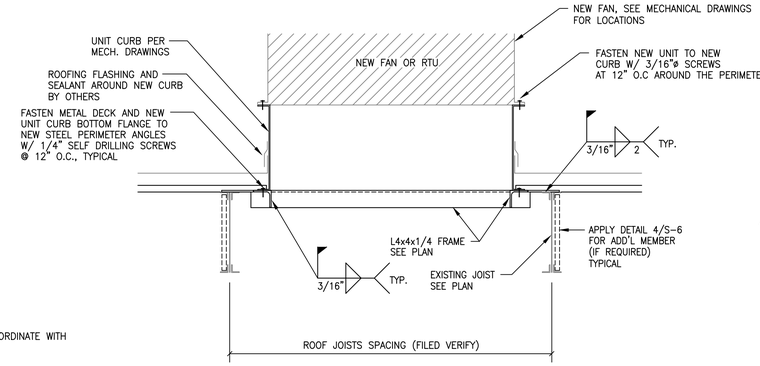
TYPICAL ROOF FRAMING PLAN AT NEW LARGE RTU'S

PLAN — 2 / S-6
SCALE: N.T.S

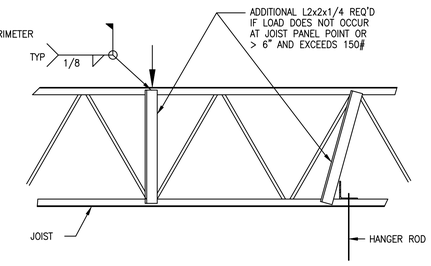


TYPICAL ROOF FRAMING PLAN AT SMALL UNITS

PLAN — 1 / S-6
SCALE: N.T.S

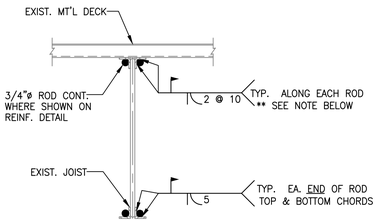


SECTION — 3 / S-6
SCALE: N.T.S.



TYP. CONCENTRATED LOAD ON JOIST

DETAIL — 4 / S-6
SCALE: N.T.S.

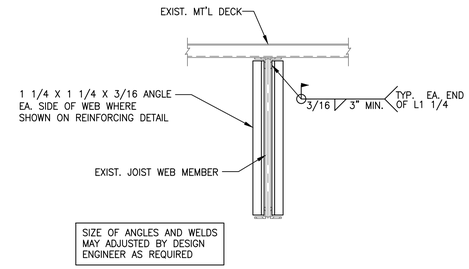


SIZE OF RODS AND WELDS
MAY ADJUSTED BY DESIGN
ENGINEER AS REQUIRED

** NOTE: WELDS SHOULD BE LOCATED AT JOIST PANEL POINTS AND AT ONE INTERMEDIATE POINT BETWEEN EACH PANEL POINT THIS REINFORCEMENT TYP. TOP & BOTTOM CHORDS

TYP. JOISTS CHORDS REINFORCING
(APPLY AS REQUIRED)

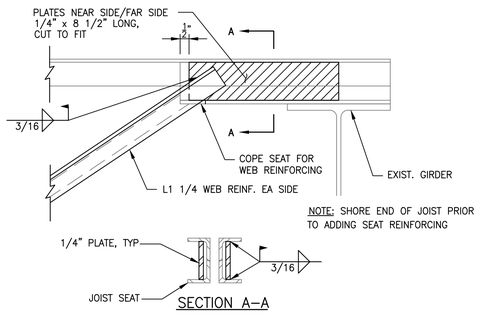
DETAIL — 5 / S-6
SCALE: 1 1/2"=1'-0"



SIZE OF ANGLES AND WELDS
MAY ADJUSTED BY DESIGN
ENGINEER AS REQUIRED

TYP. JOISTS WEBS REINFORCING
(APPLY AS REQUIRED)

DETAIL — 6 / S-6
SCALE: 1 1/2"=1'-0"

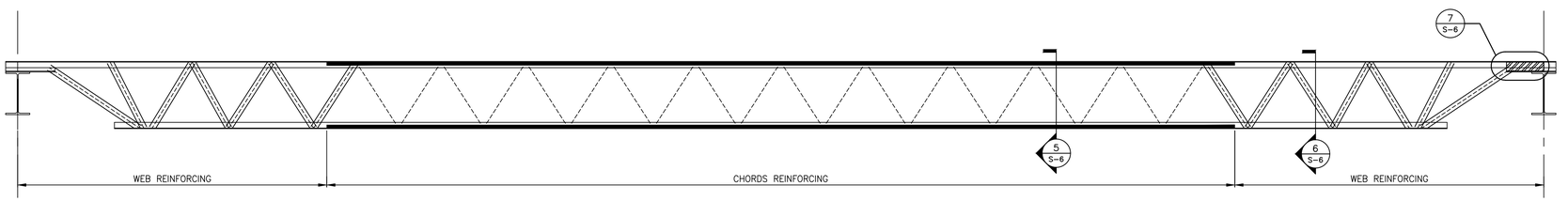


TYP. JOISTS SEATS REINFORCING
(APPLY AS REQUIRED)

DETAIL — 7 / S-6
SCALE: 3"=1'-0"

CONSTRUCTION PROCEDURE:

1. ENGINEER TO VERIFY THE EXISTING JOISTS SIZES FROM EXISTING TOP CHORDS, BOTTOM CHORDS, WEBS AND PROFILES INFORMATION.
2. NEW UNITS SHALL BE PLACED CENTERED AS POSSIBLE ON ROOF GIRDERS TO DISTRIBUTE MAXIMUM PART ON EXISTING ROOF GIRDER.
3. ENGINEER SHALL RUN THE CALCULATION AND VERIFY THE CAPACITY OF EXISTING STRUCTURAL ELEMENTS AT THE NEW UNITS LOCATIONS.
4. STRENGTHENING SHALL BE SPECIFIED AS REQUIRED. DETAILS ON THIS SHEET ARE CONCEPT DESIGN AND FINAL STRENGTHENING SHALL BE SPECIFIED ACCORDING TO THE CAPACITY OF EXISTING STRUCTURAL ELEMENTS.



JOIST PROFILE – REINFORCING CONCEPT

DETAIL — 8 / S-6
SCALE: N.T.S.

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S-6

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DRAWING INDEX:

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Encrypted Digital Seal
John Reep
Digitally signed by John Reep
Date: 2021.10.27 08:34:36 -04'00'

Signature/Seal

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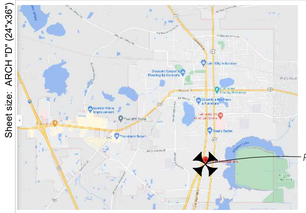
Project Number	20210607

Cover Sheet

A-0

Sheet size: ARCH "D" (24"x36")



PROJECT LOCATION

2020 FLORIDA BUILDING CODE, 7th EDITION
2020 FLORIDA FIRE PREVENTION CODE, 7th EDITION
NATIONAL ELECTRIC CODE, 2017 EDITION

BUILDING CODE SUMMARY:

BUILDING OCCUPANCY	GROUP M
GROSS AREA	30,000 S.F.
ACCESSIBILITY	NEW COMPLIANT TOILET ROOMS
OCCUPANT LOAD	849 PER NFPA101 432 PER FBC
REQUIRED EXIT WIDTH	169.8"
PROVIDED EXIT WIDTH	201"
SPRINKLERED	YES, FULLY SPRINKLERED BUILDING – CONTRACTOR SHALL EXTEND EXISTING SPRINKLER SYSTEM INTO NEWLY CONSTRUCTED SPACES
CONSTRUCTION	TYPE IIIB, III(000)

STOCKROOM IS <10% OF GROSS AREA, FIRE SEPARATION NOT REQUIRED

TYPICAL CONSTRUCTION NOTES:

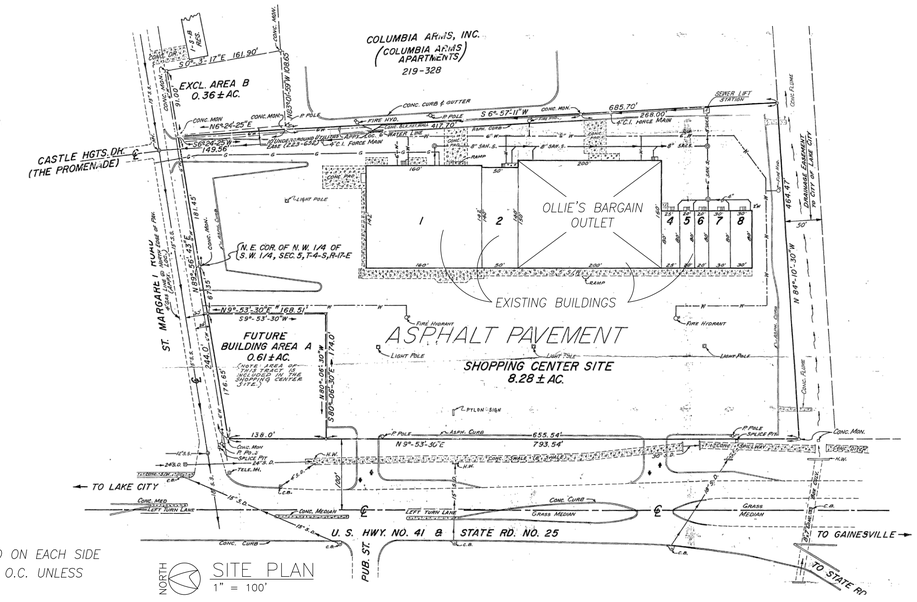
1. NEW INTERIOR PARTITIONS ARE 1/2" MIN. GYP. BOARD ON EACH SIDE OF 3 5/8" METAL STUDS, OR 2x4 WOOD STUDS, @ 16" O.C. UNLESS NOTED OTHERWISE (U.N.O.).
2. OPENINGS IN STUD WALLS ARE DIMENSIONED TO CENTERLINE OF OPENING. COORDINATE ROUGH OPENING SIZE WITH REQUIREMENTS OF DOOR OR WINDOW MANUFACTURER.
3. EXTERIOR WALLS ARE EXISTING CMU WITH 2x P.T. FURRING AND 1/2" MIN. GYP. BD. ON INTERIOR SIDE. DIMENSIONS ARE TO FACE OF EXISTING CMU.
4. ALL INTERIOR DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE (IF APPLICABLE).
5. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED
6. CONTRACTOR SHALL SELECT EXTERIOR BUILDING PRODUCTS APPROVED BY THE FLORIDA BUILDING COMMISSION AND BEARING PRODUCT APPROVAL NUMBERS FOR PANEL WALLS, EXTERIOR DOORS, ROOFING PRODUCTS, SKYLIGHTS, WINDOWS, SHUTTERS, STRUCTURAL COMPONENTS, AND BUILDING ENVELOPE PRODUCTS OF NEW TECHNOLOGY.
7. VERIFY LOCATIONS OF UNDERGROUND UTILITIES BEFORE EXCAVATING.
8. CONTRACTOR SHALL DELIVER TO OWNER UPON PROJECT CLOSEOUT A BUILDING OR SPACE THOROUGHLY CLEANED AND WITH ALL CONTRACTOR–INSTALLED COMPONENTS FUNCTIONING AS NEW. ANY EXISTING COMPONENTS (FOR RENOVATION OR ADDITION PROJECTS) SHALL BE IN CLEAN, WORKING CONDITION AS VERIFIED BY CONTRACTOR AND OWNER. ANY EXISTING COMPONENT DETERMINED TO BE INOPERATIVE SHALL BE REPLACED BY CONTRACTOR. WHERE ANY COMPONENT WAS REMOVED AND A BREAK IN THE FINISH IS REVEALED, THE CONTRACTOR SHALL PATCH THE FINISH AND SUBSTRATE AS NEEDED TO LEAVE NO EVIDENCE OF THE REMOVED COMPONENT.

PRODUCT SUBMITTALS & SHOP DRAWINGS:

1. NO SUBSTITUTIONS OF PRODUCTS SHALL BE CONSIDERED UNTIL THE SUPPLIER. HAS DEMONSTRATED EQUIVALENCY TO THE ARCHITECT AND/OR ENGINEER OF RECORD.
2. TRADES REQUIRING CLEAR ROOM DIMENSIONS ARE RESPONSIBLE FOR FIELD VERIFYING CLEAR DIMENSIONS PRIOR TO PRODUCING SHOP DRAWINGS.
3. IF SHOP DRAWINGS ARE SUBMITTED SHOWING A CHANGE TO THE DESIGN, SUBMITTER MUST DESCRIBE THE REASON FOR THE CHANGE OR THE SHOP DRAWING WILL BE REJECTED. SEE NOTE 1 UNDER "CONFLICTS AND OMISSIONS TO DRAWINGS".

CONFLICTS AND OMISSIONS TO DRAWINGS:

1. THESE DOCUMENTS REFLECT THE DESIGN INTENT TO MEET THE CLIENT'S NEEDS AND COMPLY WITH BUILDING CODES. NOT ALL CONFLICTS OR HIDDEN CONDITIONS CAN BE DISCOVERED PRIOR TO CONSTRUCTION. CONSTRUCTION TRADES SHALL ADVISE THE ARCHITECT THROUGH THE GENERAL CONTRACTOR IF THE INTENT CANNOT BE ACHIEVED. NO CHANGE SHALL BE MADE TO THE DESIGN UNTIL IMPLICATIONS TO ALL TRADES AND CODE REQUIREMENTS HAVE BEEN THOROUGHLY INVESTIGATED. FAILURE TO ADVISE THE ARCHITECT OF DISCREPANCIES PRIOR TO PROCEEDING WITH SUCH CONSTRUCTION SHALL RELIEVE ARCHITECT OF RESPONSIBILITY TO MEET CLIENT'S NEEDS AND SCHEDULES.
2. TRADES SHALL PLAN THEIR WORK SUFFICIENTLY FAR AHEAD TO DISCOVER ANY CONFLICTS OR DISCREPANCIES AND SHALL BRING THEM TO THE ARCHITECT'S ATTENTION THROUGH THE GENERAL CONTRACTOR IN THE FORM OF A REQUEST FOR INFORMATION (RFI) AS SOON AS POSSIBLE TO ALLOW ADEQUATE TIME TO RESOLVE.

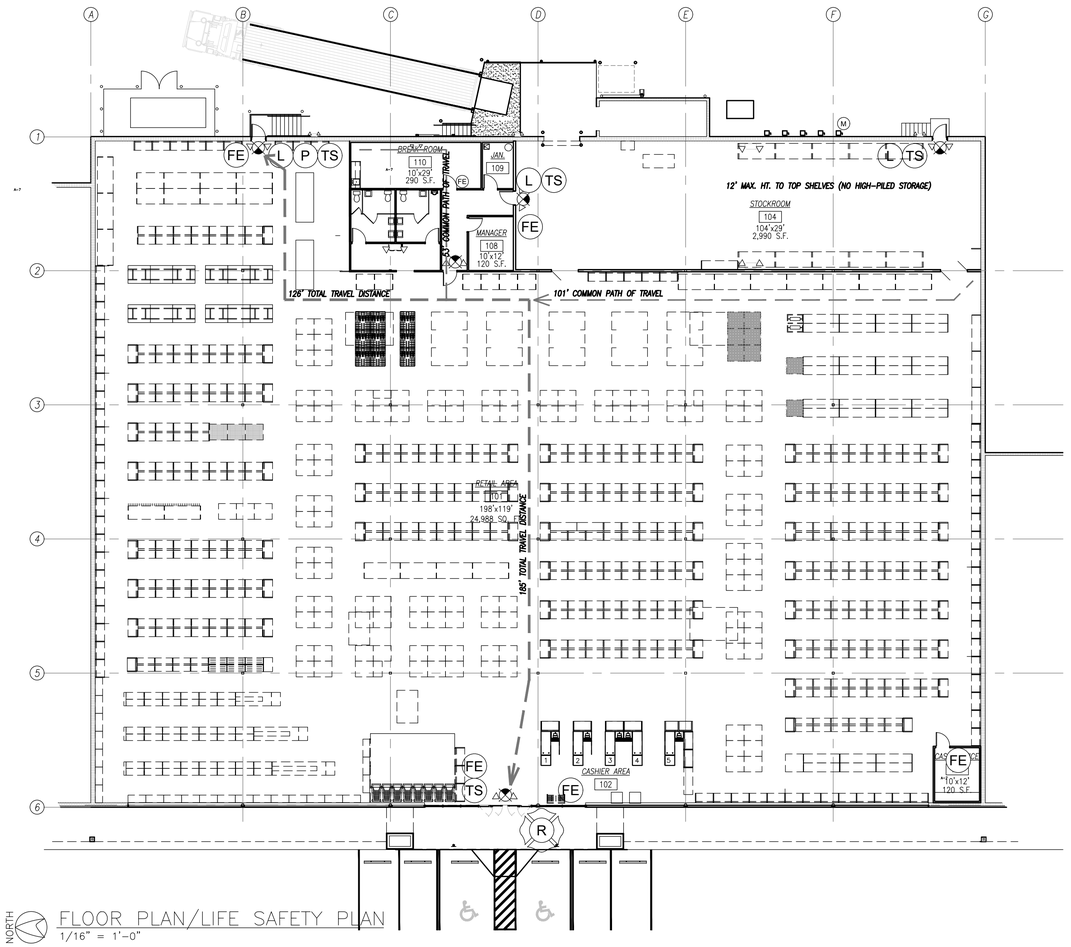


TYPICAL SITE AND EXTERIOR NOTES:

1. LANDLORD SHALL BE RESPONSIBLE FOR ALL MAINTENANCE /REPAIRS/REPLACEMENT OF ROOF, BUILDING STRUCTURE AND PARKING LOT. PARKING LOT IS TO BE SEALED AND STRIPED PRIOR TO GRAND OPENING, WITH FIRE LANE MARKING, CROSSWALK AND HANDICAP SPACES. INSTALL HANDICAP PARKING SIGNS. STRIPING TO INCLUDE PAINTING THE FRONT SIDEWALK CURB EDGE.
2. INSTALL NEW ADA COMPLIANT CURB CUT DIRECTLY IN FRONT OF THE ENTRANCE DOORS. THE CURB CUT SHALL MEET FLORIDA BUILDING CODE (ACCESSIBILITY) AND ADAAG.
3. ROOF SHALL BE PROFESSIONALLY INSPECTED AND CERTIFIED TO BE IN GOOD CONDITION AND FREE OF LEAKS. THE LANDLORD SHALL PROVIDE THIS REPORT TO THE TENANT'S CONSTRUCTION DEPARTMENT.
4. OUTSIDE AREAS MUST BE FREE OF WEEDS AND HAVE MAINTAINED AND ATTRACTIVE LANDSCAPING.
5. LANDLORD TO POWER WASH ENTRANCE AREAS (WALLS AND SIDEWALK) A FEW DAYS BEFORE STORE OPENING (DATE TO BE DETERMINED BY TENANT).
6. SPACE TO BE DELIVERED WITH AT LEAST ONE (1) DEDICATED TRASH CAN FOR THE FRONT OF THE STORE.
7. PROVIDE AND INSTALL (ANCHOR TO ASPHALT) ONE CART CORRAL FOR CARTS IN THE PARKING LOT. (SEE THE BACK OF THE WORK LETTER FOR TENANTS NATIONAL ACCOUNT VENDOR).
8. PROVIDE NEW PYLON SIGN IN ACCORDANCE WITH APPLICABLE SIGN CODES

LEGEND

- NEW PARTITION, 1/2" GYP. BD. ON 2x4 STUDS @ 16" O.C.
- EXISTING PARTITIONS TO CEILING
- EXISTING PARTITIONS TO 1' BELOW CEILING
- (FE) FIRE EXTINGUISHER – 2A–10BC
- COMBO EXIT LIGHT & EGRESS LIGHTING
- EMERGENCY EGRESS LIGHTING
- (R) LIGHT FRAME ROOF MEDALLION
- (P) DOOR WITH PUSH–BAR PANIC HARDWARE EXIT DEVICE
- (TS) TACTILE SIGNAGE:
  (1) TACTILE SIGNAGE SHALL BE LOCATED AT EACH EXIT DOOR REQUIRING AN EXIT SIGN.
  (2) TACTILE SIGNAGE SHALL READ AS FOLLOWS: EXIT.
  (3) TACTILE SIGNAGE SHALL COMPLY WITH ICC/ANSI A117.1, AMERICAN NATIONAL STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES.
- (L) DOOR LOCK SIGNAGE:
  "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED"
  THE SIGN SHALL BE IN LETTERS 1 INCH (25 MM) HIGH ON A CONTRASTING BACKGROUND
- ELEC. PANEL
- ELECTRICAL SERVICE DISCONNECT



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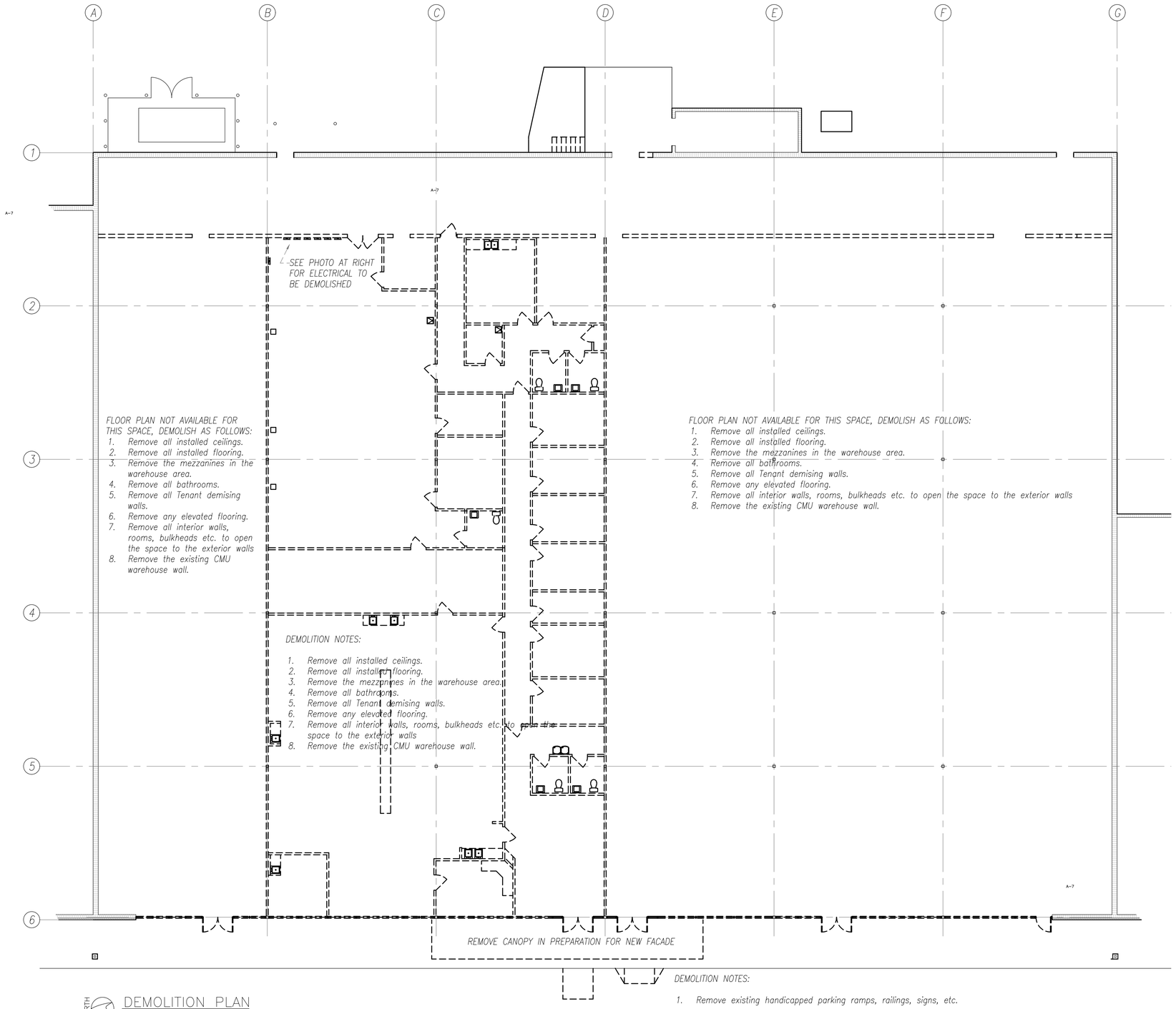
5th Revision	
4th Revision	
3rd Revision	
2nd Revision	
1st Revision	
Issue Date	Oct. 27, 2021
Project Number	20210607

Site Plan, Life Safety Plan & General Notes

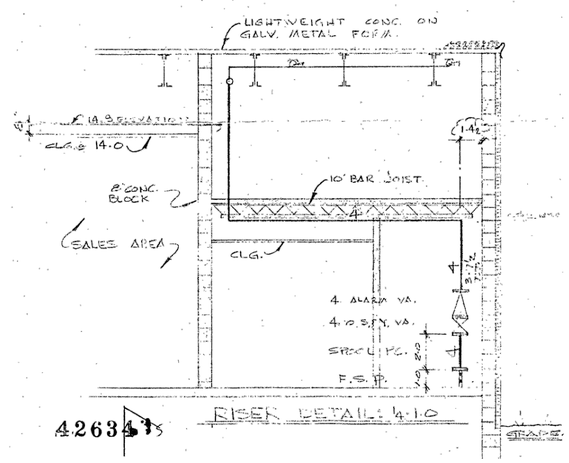
A-1

Sheet size: ARCH "D" (24"x36")



DEMOLITION PLAN
1/10" = 1'-0"

1 EXISTING ELECTRICAL TO BE DEMOLISHED



2 EXISTING MEZZANINE TO BE DEMOLISHED

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2nd Revision	
1st Revision	
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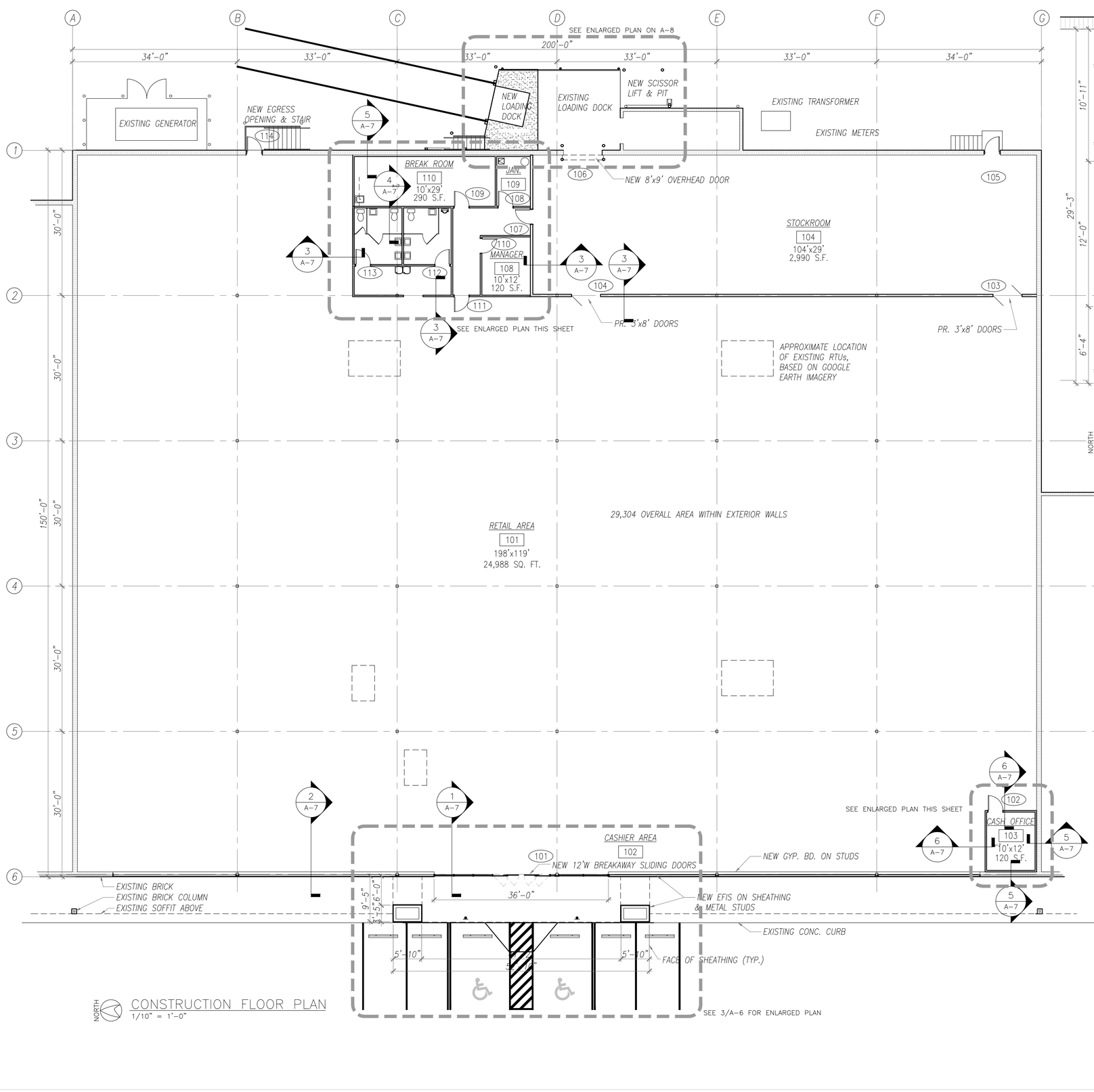
Demolition Plan

A-2

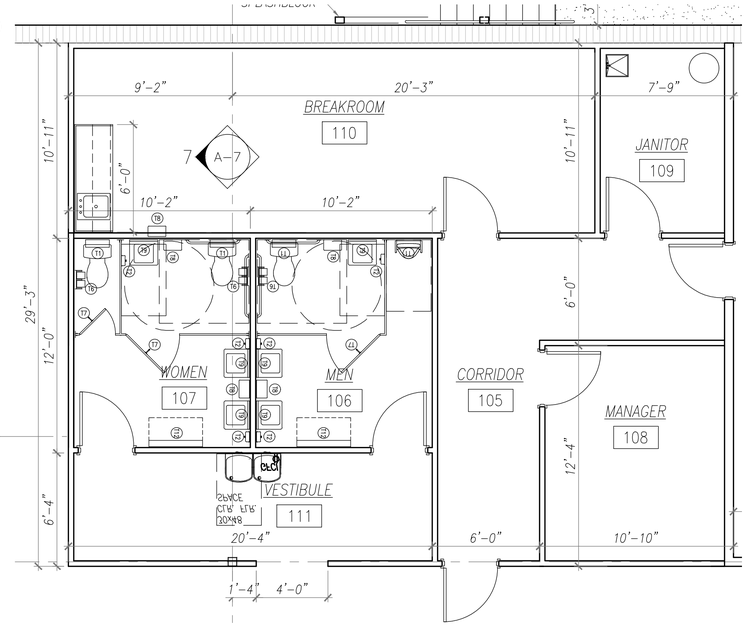
Sheet size: ARCH "D" (24"x36")



NORTH

CONSTRUCTION FLOOR PLAN

1/10" = 1'-0"



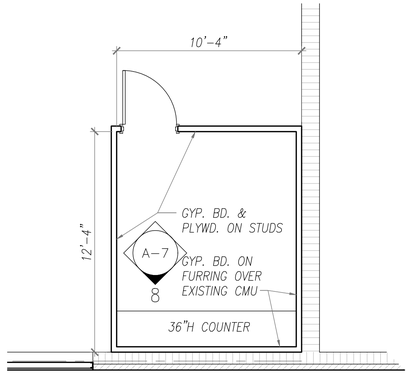
NORTH

ENLARGED TOILET RM. PLAN

1/4" = 1'-0"

TOILET ACCESSORY SCHEDULE:

- (T1) STAINLESS STEEL SHELF BOBRICK B-295 X 16
- (T2) SURFACE-MOUNTED SOAP DISPENSER BOBRICK B4112
- (T3) SURFACE-MOUNTED WASTE RECEPTACLE BOBRICK B-279
- (T4) 36" GRAB BAR BOBRICK B-5806x36
- (T5) 42" GRAB BAR BOBRICK B-5806x42
- (T6) TOILET TISSUE DISPENSER FOR TWO ROLLS BOBRICK B-274
- (T7) CLOTHES HOOK WITH BUMPER BOBRICK B-212
- (T8) ELECTRIC HAND DRYER XCELERATOR XL-GR, PROVIDE 110V 12.5A, 60Hz POWER
- (T9) 18"x30" MIRROR
- (T10) MOP HOOK & SHELF BOBRICK B239X34
- (T11) PAPER TOWEL DISPENSER BOBRICK B262



NORTH

ENLARGED CASH OFFICE PLAN

1/4" = 1'-0"

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3rd Revision	
2nd Revision	
1st Revision	
Issue Date	Oct. 27, 2021
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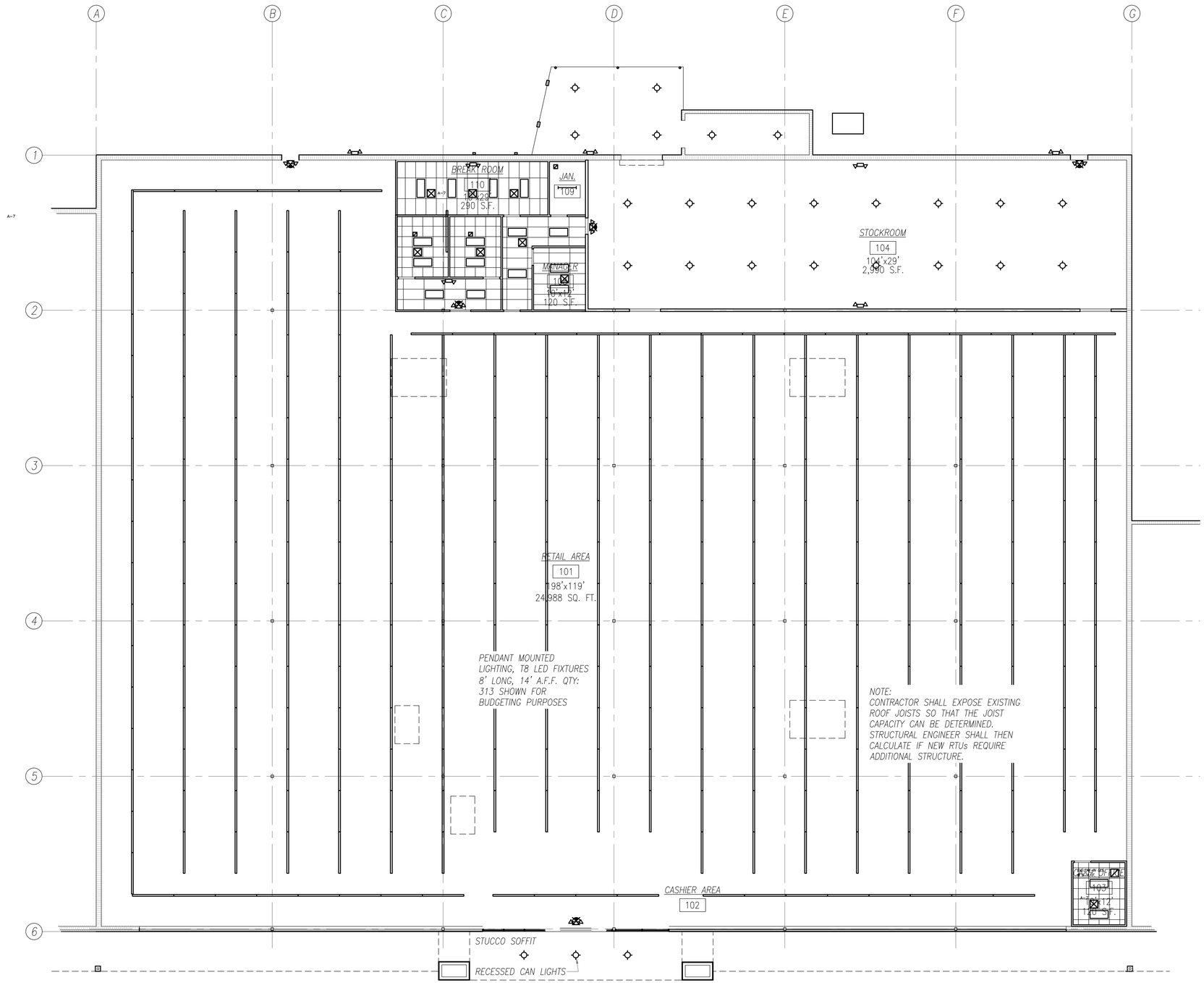
New Floor Plan

A-3

Sheet size: ARCH "D" (24"x36")



NORTH

REFLECTED CEILING PLAN

1/10" = 1'-0"

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1st Revision	
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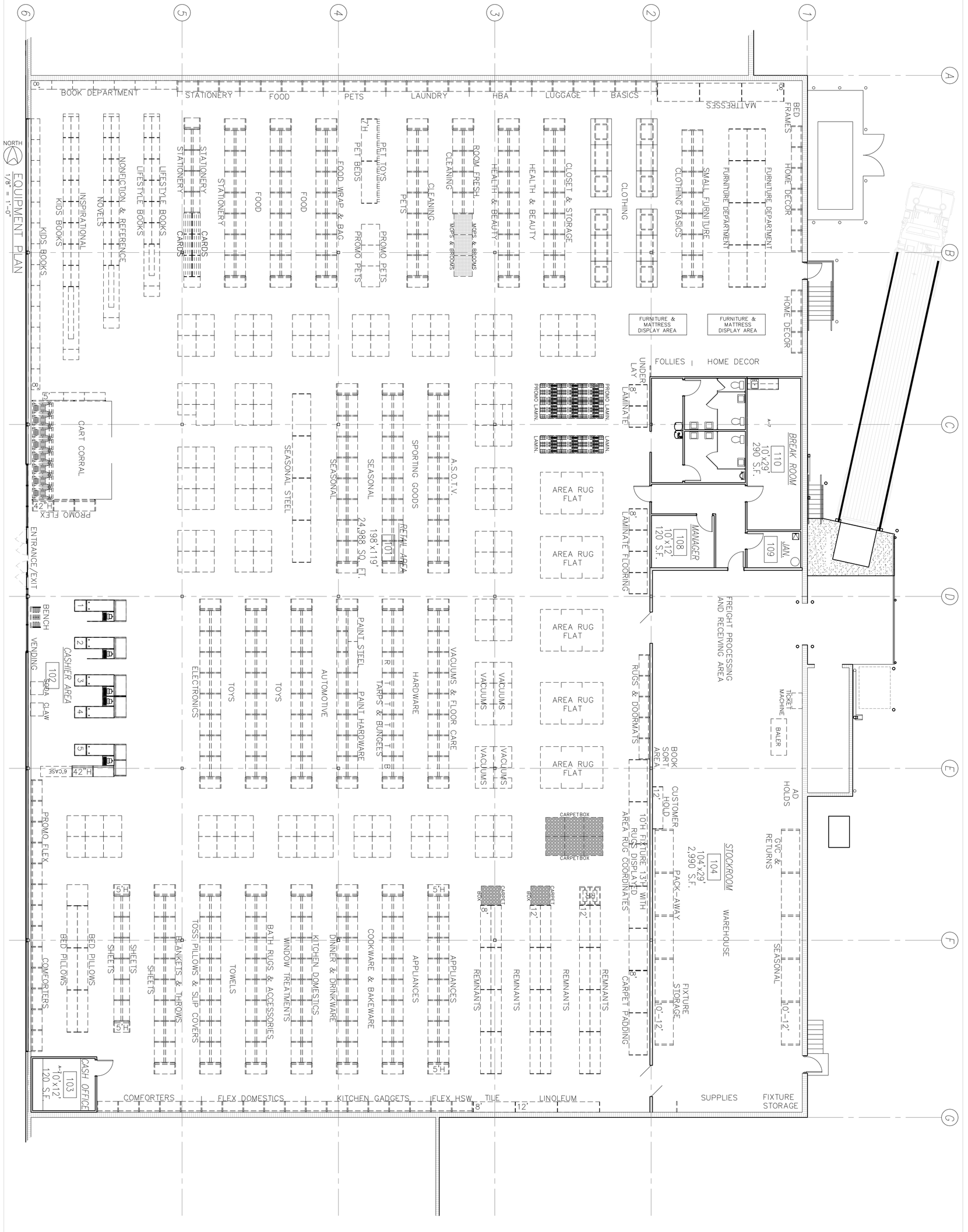
Project Number	20210607

Reflected Ceiling Plan

A-4

Sheet size: ARCH "D" (24"x36")



Project Number	2021-0007
Issue Date	Oct. 27, 2021
Drawn By	RJR
Check By	JR
Sheet Name	Fixture & Furniture Layout
Sheet Number	A-5

Do Not Scale The Drawings

No.	Description	Date
1	Bid Revision	
2	Bid Revision	
3	Bid Revision	

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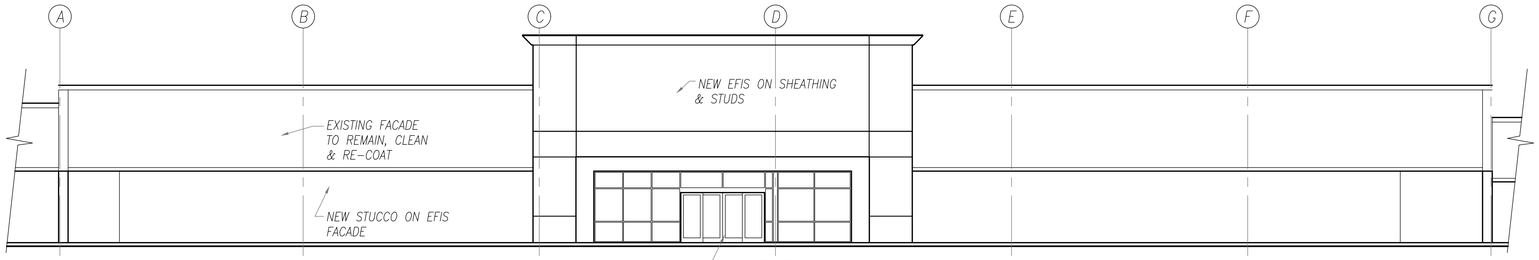
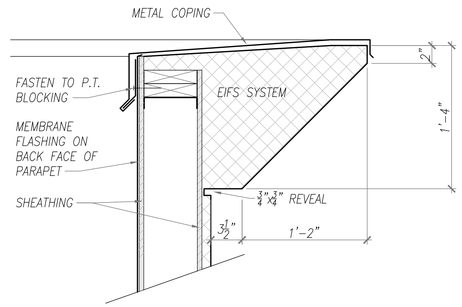
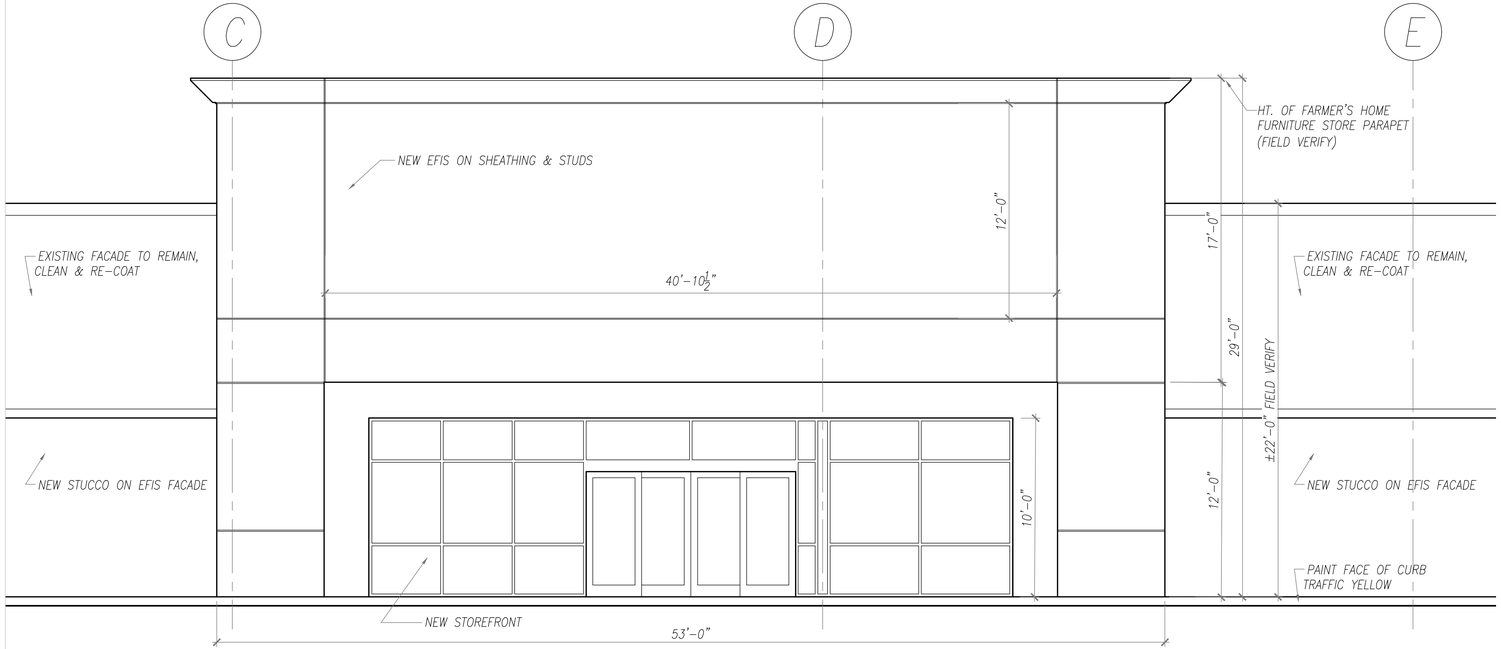


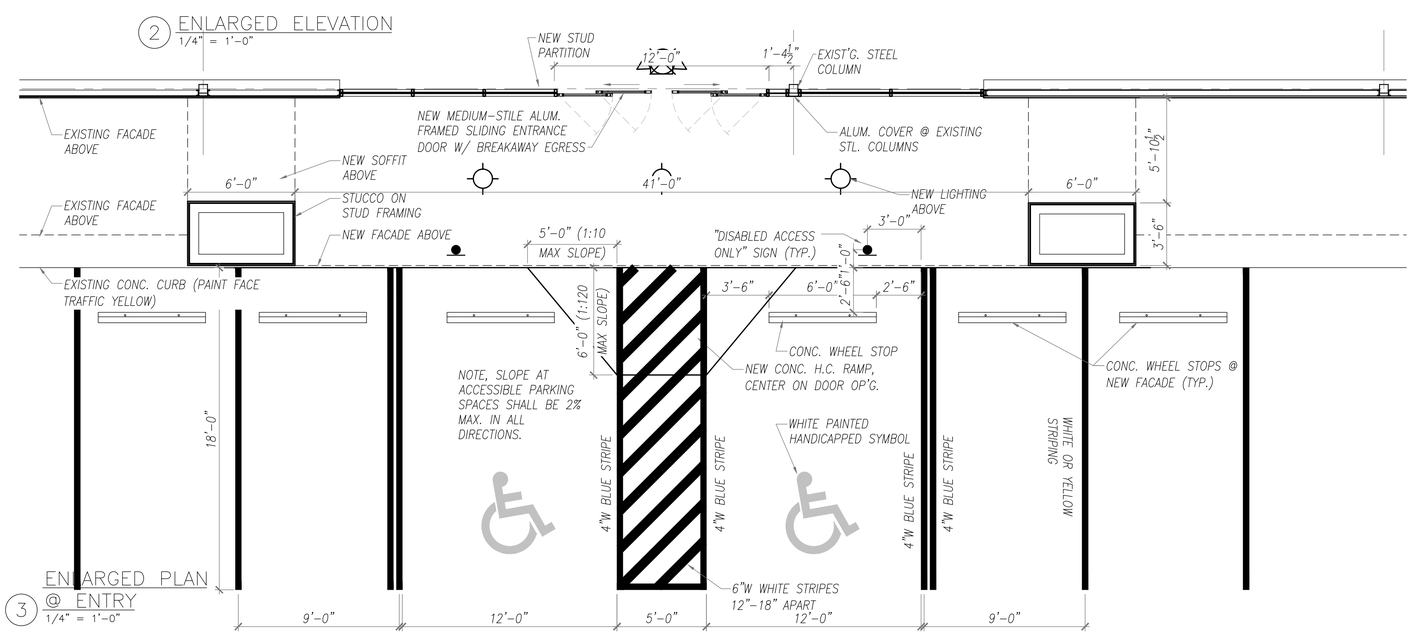
1 EXTERIOR ELEVATION
1/10" = 1'-0"



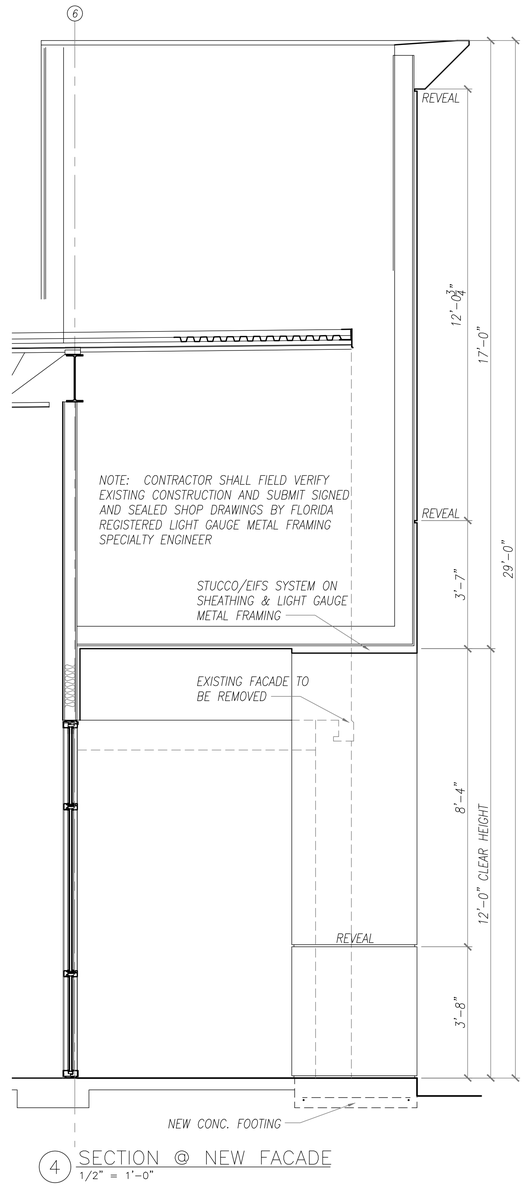
5 NEW EIFS CORNICE
1 1/2" = 1'-0"



2 ENLARGED ELEVATION
1/4" = 1'-0"



3 ENLARGED PLAN @ ENTRY
1/4" = 1'-0"



4 SECTION @ NEW FACADE
1/2" = 1'-0"

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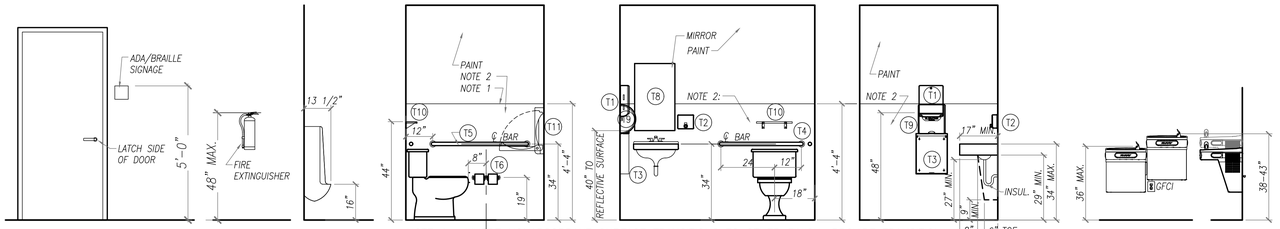
Exterior Elevations

A-6

Sheet size: ARCH "D" (24"x36")

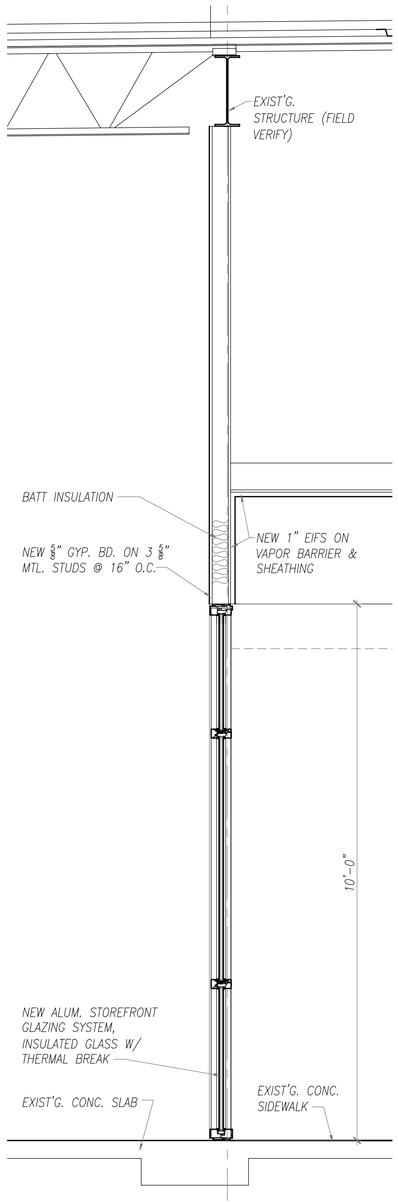


NOTE 1: WHERE NONABSORBANT SURFACE TRANSITIONS TO OTHER FINISH, PROVIDE TRANSITION MATERIAL (MAY BE PVC TRIM, BULLNOSE CERAMIC TILE, ETC.). DO NOT CUT TILES AND LEAVE EXPOSED UNFINISHED EDGES.

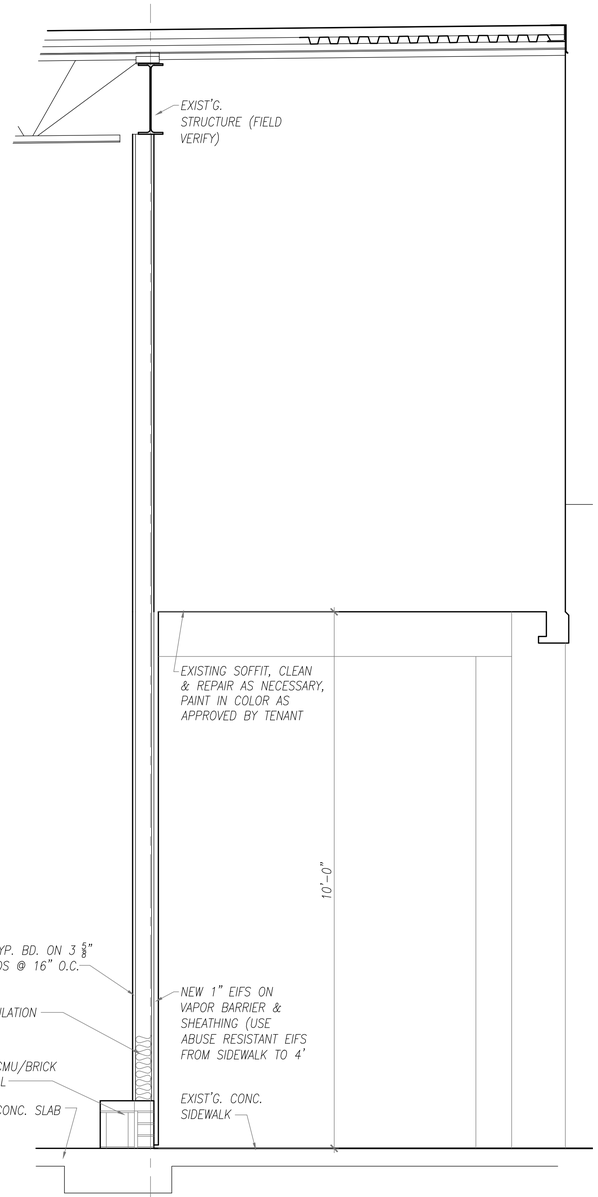
NOTE 2: WALLS WITHIN 2' OF URINALS AND WATER CLOSETS SHALL HAVE A SMOOTH, HARD, NONABSORBANT SURFACE, TO A HEIGHT OF 4' ABOVE THE FLOOR, AND OF A TYPE THAT IS NOT ADVERSELY AFFECTED BY MOISTURE. MAY BE EPOXY PAINT, FRP, CERAMIC TILE, OR SIMILAR MATERAL.

NOTE 3: PROVIDE STRUCTURALLY ADEQUATE BLOCKING IN WALL FOR MOUNTING GRAB BARS AND OTHER ACCESSORIES

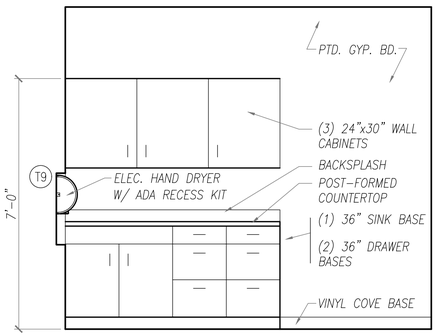
9 ADA MOUNTING HEIGHTS
3/8" = 1'-0"



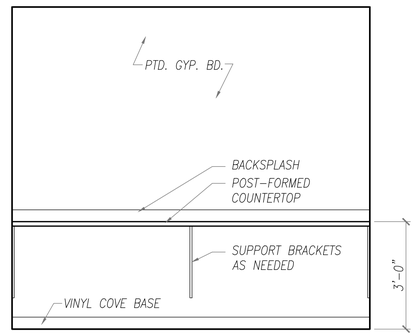
1 WALL SECTION
3/4" = 1'-0"



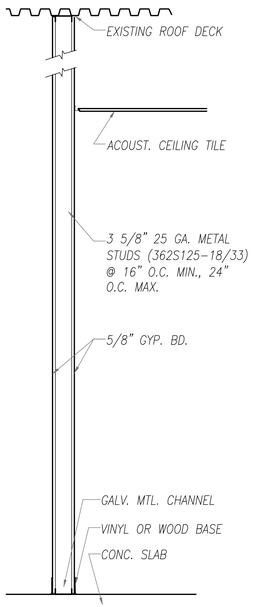
2 WALL SECTION
3/4" = 1'-0"



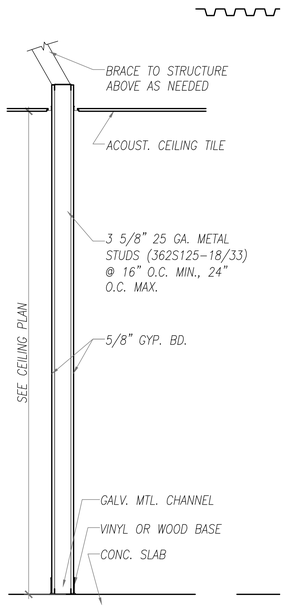
7 INTERIOR ELEVATION
1/2" = 1'-0"



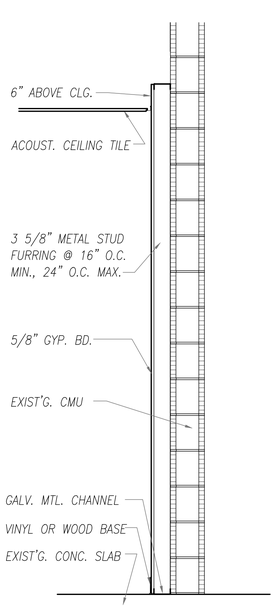
8 INTERIOR ELEVATION
1/2" = 1'-0"



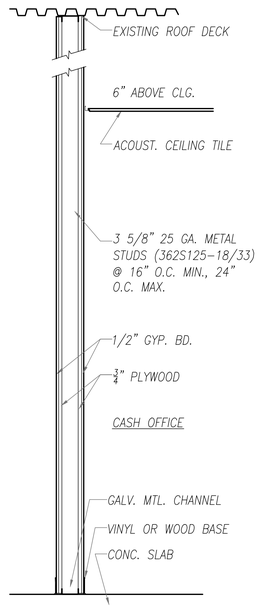
3 WALL SECTION
3/4" = 1'-0"



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



5 WALL SECTION
3/4" = 1'-0"



6 WALL SECTION
3/4" = 1'-0"

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1st Revision	
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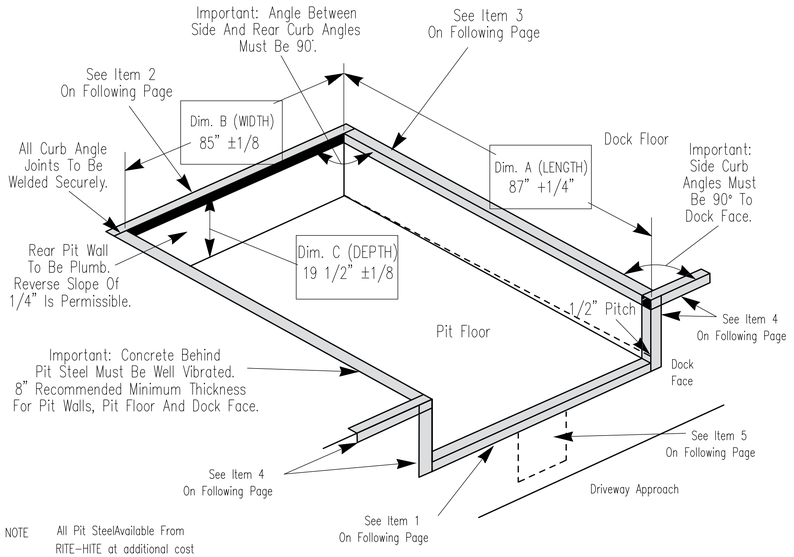
Wall Sections & Interior Elevations

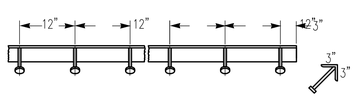
A-7

Sheet size: ARCH "D" (24"x36")



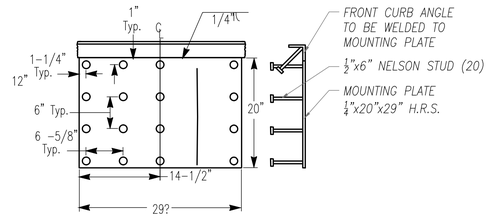
NOTE All Pit SteelAvailable From RITE-HITE at additional cost

ITEM 1, 2, 3, 4: ANCHOR LAYOUT FOR CURB ANGLES



IMPORTANT: Curb Angles Nelson Studs 1/2" Dia. 6" Long Located As Shown

ITEM 5: RESTRAINT MOUNTING PLATE (OPTIONAL)



Restraint Mounting Plate Furnished By General Contractor Or Available From RITE-HITE At Additional Cost.

CONTRACTOR?S BILL OF MATERIAL FOR NOMINAL PIT SIZE

ITEM	QTY.	7'W x 8'L
1. FRONT CURB ANGLE 3 x 3 x 3/16	1	85"
2. REAR CURB ANGLE 3 x 3 x 3/16	1	91"
3. SIDE CURB ANGLE 3 x 3 x 3/16	2	84"
4. TOP FRONT ANGLE 3 x 3 x 3/16	4	20"

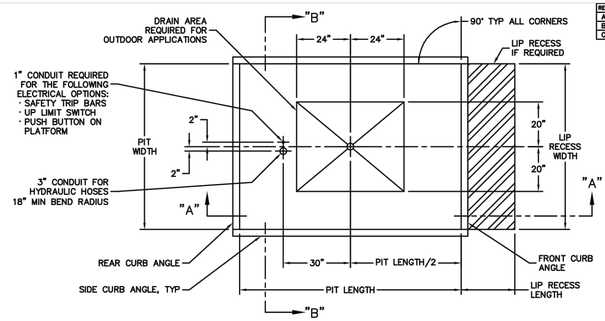
CONSTRUCTION NOTES

1. Concrete Behind Pit Steel Must Be Well Vibrated.
2. Rear Pit Wall must be Square With Dock Floor.
3. All Curb Angle Joints To Be Welded Securely.
4. 1/2" Pitch toward Front Of Pit For Drainage.
5. 8" Recommended Min. Thickness For Pit Walls, Pit Floor And Dock Face.

1 DOCK LEVELER PIT DETAILS
3/4" = 1'-0"

LRL PIT DIMENSIONS/SPECIFICATIONS	
DESCRIPTION	VALUE
PLATFORM SIZE	W X L
CAPACITY	
LIP LENGTH	
PIT WIDTH	
PIT LENGTH	
PIT DEPTH	
LIP RECESS WIDTH	
LIP RECESS LENGTH	
FRONT/REAR CURB ANGLE LENGTH	
SIDE CURB ANGLE LENGTH	

USE TABLES & FORMULAS AT RIGHT TO DETERMINE VALUES.



REV	DATE	DESCRIPTION	ECN	APPROVED BY
A	03/28/2006	REL PER CAR 20060085C	20060085C	P. BELONGIA
B	11/27/2007	REL PER ECN 20070400	20070400	T. LATHAM
C	08/08/2008	ADDED RUN-OFF-STOP INFO	19426ML	T. LATHAM

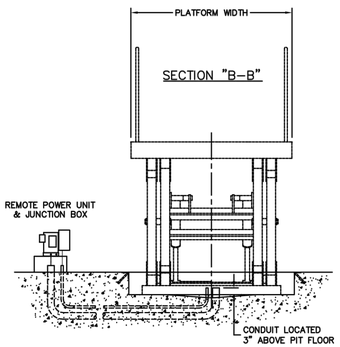
PLATFORM SIZE		
SIZE	PLATFORM WIDTH	PLATFORM LENGTH
72"W X 96"L	72"	96"
84"W X 96"L	84"	96"
96"W X 96"L	96"	96"
72"W X 120"L	72"	120"
84"W X 120"L	84"	120"
96"W X 120"L	96"	120"

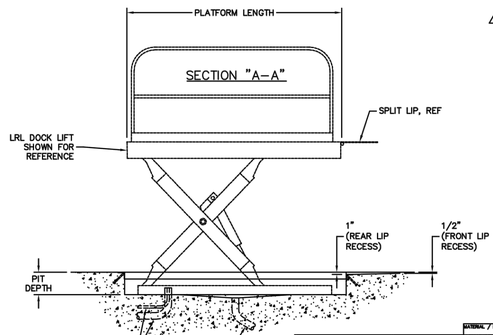
PIT SIZE (WIDTH & LENGTH)		
PIT WIDTH =	PLATFORM WIDTH + 2"	
PIT LENGTH =	PLATFORM WITH LIP ON (1) END / PLATFORM LENGTH + 3"	
	PLATFORM WITH LIP ON (2) ENDS / PLATFORM LENGTH + 4"	
	PLATFORM WITH LIP ON (1) END & RUN-OFF-STOP ON (1) END / PLATFORM LENGTH + 4"	
PIT DEPTH =	CAPACITY	PIT DEPTH
	5,000 LBS	8-1/2"
	6,000 LBS	10-1/2"
	8,000 LBS	12-1/2"
	10,000 LBS	12-1/2"

LIP RECESS SIZE (IF REQUIRED)	
LIP RECESS WIDTH =	LIP WIDTH + 2"
LIP RECESS LENGTH =	LIP LENGTH + 1/2"

CURB ANGLE LENGTH	
FRONT/REAR CURB ANGLE =	PIT WIDTH
SIDE CURB ANGLE =	PIT LENGTH + 6"

* ALL CURB ANGLE TO BE FABRICATED WITH 3" X 3" X 3/16" ANGLE, AND TO HAVE 6" NELSON STUDS ON 12" CENTERS. (SUPPLIED AND FABRICATED BY OTHERS)



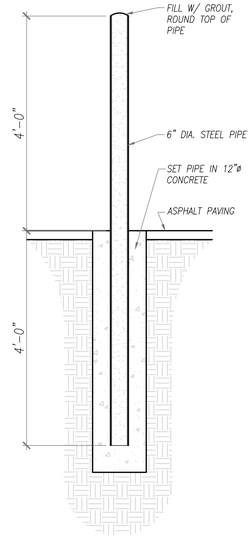


NOTES:
1. ALL PIT DIMENSIONS ±1/4".
2. PIT FLOOR TO BE LEVEL (ACCEPT IN DRAIN AREA IF REQUIRED).
3. ALL CONCRETE TO BE WELL VIBRATED.
4. PIT WALLS TO BE SQUARE TO APPROACH.
5. ALL CURB ANGLES TO BE SECURELY WELDED.

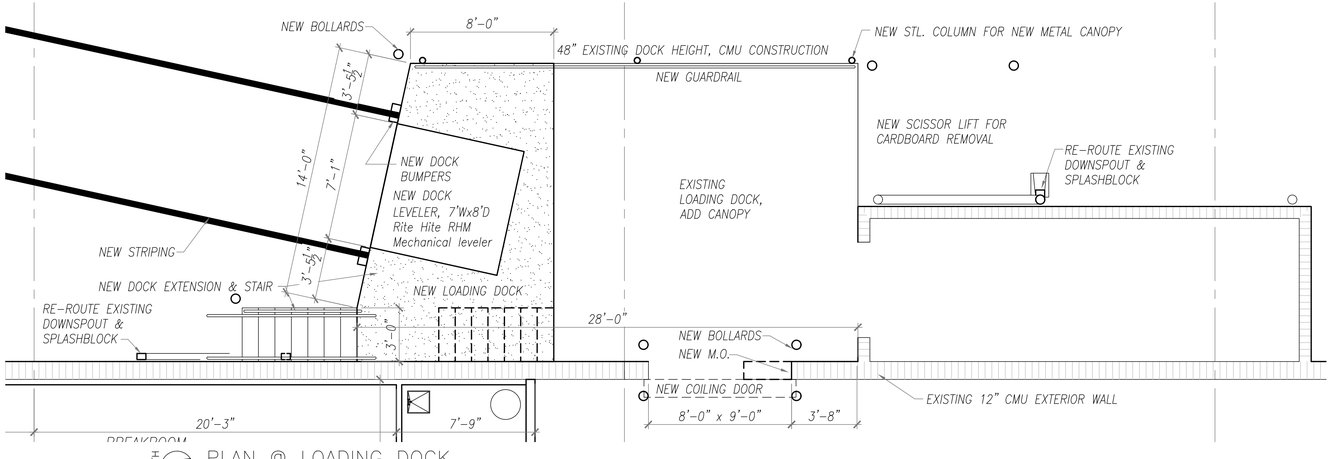
2 SCISSOR LIFT PIT DETAILS
3/4" = 1'-0"

CONFIDENTIAL — UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES: .X ± 0.120, .XX ± 0.060, .XXX ± 0.030, ANGLES ± 0.50°. THIS DOCUMENT IS THE PROPERTY OF RITE-HITE® PRODUCTS CORPORATION AND SHALL NOT BE COPIED, REPRODUCED, OR USED WITHOUT WRITTEN CONSENT OF RITE-HITE® PRODUCTS CORPORATION. DO NOT DISCLOSE EXCEPT WITH WRITTEN CONSENT OF RITE-HITE® PRODUCTS CORPORATION. THIRD ANGLE PROJECTION. ROCKS RITE-HITE® PRODUCTS CORPORATION.

MATERIAL / PART NUMBER — DRAWN BY: B. WEBERDINK — RESPONSIBLE ENGINEER: P. BELONGIA — RITE-HITE® PRODUCTS CORPORATION — TITLE: DWG INSTL LRL — REFERENCE: 651-0012 — REV: D — DWG NO: 0122982 — REV: C — ALL SURFACE ARE AS SHOWN REVISION ANALYSIS — DO NOT SCALE DRAWING — SCALE 1=16 — WEIGHT — SHEET 1 OF 1

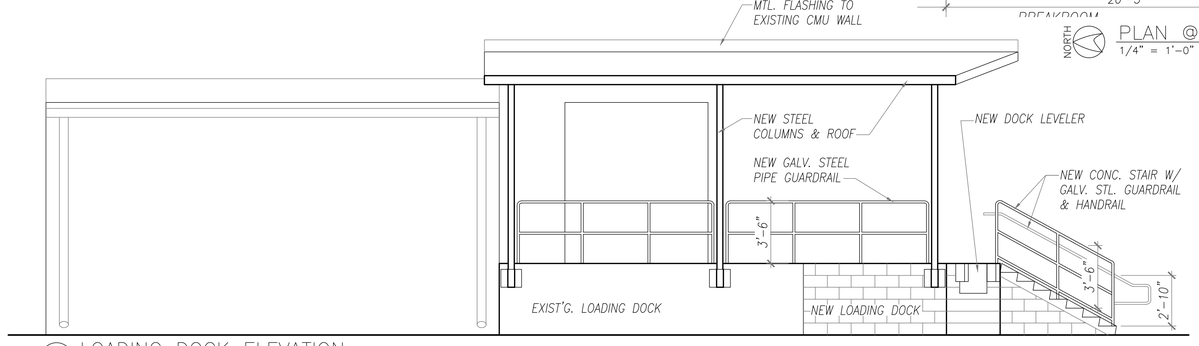


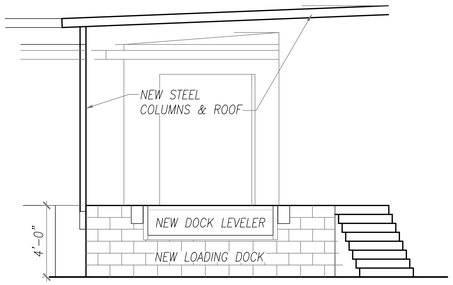
3 BOLLARD DETAIL
3/4" = 1'-0"



NORTH

PLAN @ LOADING DOCK
1/4" = 1'-0"





4 LOADING DOCK ELEVATION
1/4" = 1'-0"

CONSULTANT

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Lake City, Florida 32025

John Reep Architect
Florida AR 0014860
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(904) 704-9154
Architect.Jax@gmail.com

IF DIGITALLY SEALED, THE SEAL APPLIES TO ALL DRAWINGS SHOWN IN THE DRAWING INDEX AND COVERED SHEET WITH FLORIDA STATUTE 61G1-16.003(2).

THIS ITEM HAS BEEN SIGNED ELECTRONICALLY AND SEALED USING A SHA-1 AUTHENTICATION BY THE ARCHITECT ON 10/27/21 USING A DIGITAL SIGNATURE.

Encrypted Digital Seal

Signature/Seal

Do Not Scale The Drawings

5th Revision	
4th Revision	
3rd Revision	
2nd Revision	
1st Revision	
Issue Date	Oct. 27, 2021
Project Number	20210607

Loading Dock Details

A-8

Sheet size: ARCH "D" (24"x36")

DOOR SCHEDULE

FOOR & FRAME					HARDWARE														REMARKS
NO.	SIZE	TYPE	RATING	FRAME MAT'L.	F86 LOCKSET (STOREROOM)	F75 LOCKSET (PASSAGE)	F08 MORTISE (FRONT DOOR)	DEADBOLT	PUSH-BUTTON COMBIN. LOCK	3 HINGES	CLOSER	PRY PLATE	KICKPLATE	PULL HANDLE & PUSH PLATE	SILENCERS	THRESHOLD	STOP	180° VIEW PEEP HOLE	
101	(2) PR. 3'-0" x 7'-0"	A	–	ALUM															
102	3'-0" x 7'-0"	B	–	HM	●			●		●	●	●			●		●	●	
103	PR. 3'-0" x 8'-0"	C	–	STL									●						
104	PR. 3'-0" x 8'-0"	C	–	STL									●				●		
105	3'-0" x 7'-0"	B	–	HM			●			●	●				●	●	●	●	
106	8'-0" x 9'-0"	D	–	STL									●						
107	3'-0" x 7'-0"	B	–	HM					●	●	●		●		●	●	●	●	
108	3'-0" x 7'-0"	B	–	HM	●					●	●		●		●				
109	3'-0" x 7'-0"	B	–	HM					●	●	●		●		●				
110	3'-0" x 7'-0"	B	–	HM	●					●	●				●			●	
111	3'-0" x 7'-0"	B	–	HM		●				●	●				●			●	
112	3'-0" x 7'-0"	B	–	HM						●	●		●	●	●				
113	3'-0" x 7'-0"	B	–	HM						●	●		●	●	●				
114	3'-0" x 7'-0"	B	–	HM			●			●	●				●	●		●	

DOOR NOTES:

1. ALL DOOR HARDWARE SHALL MEET APPLICABLE ACCESSIBILITY STANDARDS.

2. COORDINATE KEYING WITH TENANT'S REQUIREMENTS

3. ALL DOOR HARDWARE SHALL BE PURCHASED THROUGH CUSHMAN & WAKEFIELD. CONTACT SIOBHAN PANIAS SIOBHAN.PANIAS@CUSHWAKE.COM 978-983-8145.

4. INSTALL A DETEX DELAYED EXIT CONTROL LOCK WHICH IS TO BE DIRECTLY WIRED TO THE FIRE ALARM SYSTEM ON ALL DOORS GOING TO THE OUTSIDE. ALL DOORS WITH THE EXCEPTION OF THE ENTRANCE/EXIT SHALL NOT HAVE KEYED ENTRY FROM THE EXTERIOR.

5. ALL HARDWARE SHALL BE COMMERCIAL GRADE

6. AUTOMATIC SLIDING ENTRY DOOR SHALL HAVE A 2-YEAR WARRANTY

7. ALL OTHER DOORS SHALL HAVE A 1-YEAR WARRANTY

DOOR TYPES:

A. FULL BREAKOUT BI-PART MEDIUM STILE AUTOMATIC ENTRY DOOR, DORMA ESA300 OR EQUAL

B. FLUSH HOLLOW METAL W/ HONEYCOMB CORE

C. WAREHOUSE DOORS, BI-SWINGING WITH ADA WINDOWS, ELIASON P11-PLUS, GRAY 110, PHOENIX HAWK HH1 HONEYCOMB DOOR, DARK GRAY, OR EQUAL.

D. COILING OVERHEAD STEEL DOOR, ELECTRICALLY OPERATED

ROOM FINISH SCHEDULE

No.	NAME	FLOOR	BASE	WALLS (ALL INTERIOR SUBSTRATES ARE GYPSUM WALL BOARD)				CEILING (SEE PLAN FOR HEIGHT)
				NORTH	SOUTH	EAST	WEST	
101	RETAIL AREA	POLISHED CONCRETE	VINYL COVE BASE	PTD. CMU	PTD. CMU	PTD. GYP. BD.	PTD. GYP. BD.	PAINT EXPOSED STRUCTURE
102	CASHIER AREA	POLISHED CONCRETE	VINYL COVE BASE	–	–	–	PTD. GYP. BD.	PAINT EXPOSED STRUCTURE
103	CASH OFFICE	POLISHED CONCRETE	VINYL COVE BASE	PTD. GYP. BD.	PTD. GYP. BD.	PTD. GYP. BD.	PTD. GYP. BD.	A.C.T. 1
104	STOCKROOM	SEALED CONCRETE	VINYL COVE BASE	PTD. GYP. BD.	PTD. CMU	PTD. GYP. BD.	PTD. CMU	NONE
105	CORRIDOR	POLISHED CONCRETE	VINYL COVE BASE	PTD. GYP. BD.	PTD. GYP. BD.	PTD. GYP. BD.	PTD. GYP. BD.	A.C.T. 1
106	MEN'S TOILET	POLISHED CONCRETE	CERAMIC TILE	PTD. GYP. BD.	PTD. GYP. BD.	PTD. GYP. BD.	PTD. GYP. BD.	A.C.T. 1
107	WOMEN'S TOILET	POLISHED CONCRETE	CERAMIC TILE	PTD. GYP. BD.	PTD. GYP. BD.	PTD. GYP. BD.	PTD. GYP. BD.	A.C.T. 1
108	MANAGER'S OFFICE	POLISHED CONCRETE	VINYL COVE BASE	PTD. GYP. BD.	PTD. GYP. BD.	PTD. GYP. BD.	PTD. GYP. BD.	A.C.T. 1
109	JANITOR	POLISHED CONCRETE	VINYL COVE BASE	PTD. GYP. BD.	PTD. GYP. BD.	PTD. GYP. BD.	PTD. GYP. BD.	A.C.T. 1
110	BREAKROOM	POLISHED CONCRETE	VINYL COVE BASE	PTD. GYP. BD.	PTD. GYP. BD.	PTD. GYP. BD.	PTD. GYP. BD.	A.C.T. 1
111	VESTIBULE	POLISHED CONCRETE	VINYL COVE BASE	PTD. GYP. BD.	PTD. GYP. BD.	PTD. GYP. BD.	PTD. GYP. BD.	A.C.T. 1

PTD. GYP. BD. PAINTED GYPSUM BOARD, LEVEL 4 SMOOTH FINISH

VINYL COVE BASE ARMSTRONG METAL GRAY R48MG OR EQUAL.

CMU EXISTING EXPOSED CMU: PATCH, PRIME, SEAL, AND COAT

NOTE 1
ALL TOILET ROOM WALLS SHALL HAVE CERAMIC TILE TO A HEIGHT OF 4 FEET (MIN.) ABOVE THE FLOOR OR EQUIVALENT SMOOTH, HARD MATERIAL NOT ADVERSELY AFFECTED BY MOISTURE.

VINYL COVE BASE SHALL BE SOLID VINYL 1/8" THICK,

A.C.T. 1:

ARMSTRONG PRODUCT NO. 1728 FINE FISSURED OR EQUAL WITH THE FOLLOWING PERFORMANCE. SIZE AS SHOWN ON PLAN.

ACOUSTICS NRC: 0.55
ACOUSTICS CAC: 33
ACOUSTICS AC: N/A
FIRE RESIST: CLASS A (UL)
LIGHT REFLECT: 0.85
HUMIDITY RESISTANCE: HUMIGUARD PLUS
ANTI-MICROBIAL: BIOBLOCK+
VOC FORMALDEHYDE: LOW
RECYCLING PROGRAM: YES
SUSPENSION GRID: 15/16" "PRELUDE" STANDARD TEE GRID

PAINT:

WALLS: SHERWIN WILLIAMS, MASTER HIDE, EXTRA WHITE, LATEX, LOW SHEEN WASHABLE SURFACE.

DOORS AND TRIM: SHERWIN WILLIAMS, MASTER HIDE, EXTRA WHITE, LATEX, GLOSS.

EXISTING STEEL COLUMNS: SHERWIN WILLIAMS'S SAFETY RED.

CONSULTANT

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Architect.lax@gmail.com

IF DIGITALLY SEALED, THE SEAL APPLIES TO ALL DRAWINGS SHOWN IN THE DRAWING INDEX, IN ACCORDANCE WITH FLORIDA STATUTE 61G1-16.002(2).

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Encrypted Digital Seal

Signature/Seal

Do Not Scale The Drawings

5th Revision	
4th Revision	
3rd Revision	
2nd Revision	
1st Revision	
Issue Date	Oct. 27, 2021
Project Number	20210607

Schedules

A-9