

**CODE SUMMARY**

NAME OF PREMISES: COASTAL MEDICAL, BUILDING 300  
421 KINGSLEY AVE, ORANGE PARK, FL

**PROJECT DESCRIPTION**

TENANT BUILD-OUT WITHIN AN EXISTING BUILDING.

JURISDICTION- ORANGE PARK, FLORIDA

**APPLICABLE BUILDING CODES**

2017 FLORIDA BUILDING CODE  
2017 FLORIDA MECHANICAL CODE  
2017 FLORIDA PLUMBING CODE  
SIXTH EDITION FLORIDA FIRE PREVENTION CODE  
2014 NATIONAL ELECTRICAL CODE

**FLORIDA BUILDING CODE, EXISTING BUILDING**

PROPOSED CONSTRUCTION IS A LEVEL 3 ALTERATION AND WILL COMPLY WITH CHAPTERS 6, 7 AND 8.

PROPOSED CONSTRUCTION DOES NOT INVOLVE A CHANGE OF OCCUPANCY.

**FLORIDA BUILDING CODE, BUILDING**

OCCUPANCY: GROUP B, BUSINESS  
MEDICAL OFFICES

AREA OF EXISTING BUILDING TO BE RENOVATED = 3,304 SQ. FT.  
AREA OF PROPOSED CONSTRUCTION: FIRST FLOOR = 3,304 SQ. FT.

NUMBER OF STORIES = 1  
CONSTRUCTION TYPE (IIB), UNPROTECTED, UNSPRINKLERED.

CHAPTER 10 - OCCUPANT LOAD AND EGRESS  
BUSINESS (100 GROSS) 3,304 SF / 100 = 34

EGRESS WIDTH, FIRST FLOOR: 34 X 0.20 = 6.8' REQUIRED. 72" PROVIDED.

SECTION 1020.1  
CORRIDOR WALLS ARE NOT REQUIRED TO BE RATED PER EXCEPTION NO. 4.  
GROUP B OCCUPANT LOAD IS LESS THAN THE MAXIMUM ALLOWABLE FOR A SINGLE EXIT PER TABLE 1009.2.1

TWO EXITS ARE PROVIDED.

INTERIOR FINISHES:  
UNSPRINKLERED BUILDING  
EXITS AND EXIT PASSAGEWAYS: CLASS A  
CORRIDORS: CLASS B  
ROOMS AND ENCLOSED AREAS: CLASS C

**CHAPTER 12 - INTERIOR ENVIRONMENT**

SECTION 1210.2.2 - FOR RESTROOMS ACCESSIBLE TO THE PUBLIC WALLS AND PARTITIONS WITHIN 2'-0" OF SERVICE SINKS, URINALS AND WATER CLOSETS SHALL HAVE A SMOOTH, HARD, NON-ABSORBANT SURFACE TO A MINIMUM HEIGHT OF 4'-0" A.F.F.

**PLUMBING REQUIREMENTS**

PER CHAPTER 4, FBC, PLUMBING

BUSINESS OCCUPANCY

WATER CLOSETS: 1 PER 25 OCCUP. 2 REQUIRED, 3 PROVIDED  
LAVATORIES: 1 PER 40 OCCUP. 2 REQUIRED, 3 PROVIDED.

**TACTILE SIGNAGE REQUIREMENTS**

PROVIDE HANDICAPPED ACCESSIBLE IDENTIFICATION/TACTILE SIGNAGE AT ALL DOORS WITH EXIT SIGNS AND RESTROOMS IN COMPLIANCE WITH FBC 11-4.12 (7), FBC 11-4.30.4 & NFPA 101-7.10.13. SIGNAGE AT EXIT DOORS SHALL BE MOUNTED 60" AFF ON THE LATCH SIDE. SIGNAGE AT STOREFRONT DOORS AND FRAMING SHALL NOT EXCEED THE WIDTH OF THE DOOR STILE OR FRAMING MEMBER.

PROPOSED CONSTRUCTION DOES NOT INVOLVE LIGHT GAUGE TRUSS-TYPE CONSTRUCTION AND IS NOT SUBJECT TO THE REQUIREMENTS OF FAC 69A-60.0081

PROVIDE LIGHT GAUGE TRUSS-TYPE CONSTRUCTION SIGNAGE PER FAC 69A-60.0081 PER EXAMPLE BELOW

**FLORIDA FIRE PREVENTION CODE SUMMARY**

(6TH EDITION, FLORIDA FIRE PREVENTION CODE)

CONSTRUCTION TYPE: IIB-B, PER FLORIDA BUILDING CODE UNPROTECTED, UN-SPRINKLERED.

SECTION 6.2 - CLASSIFICATION OF HAZARD OF CONTENTS  
ORDINARY HAZARD PER SECTION 6.2.2.3

CHAPTER 38 - NEW BUSINESS OCCUPANCY  
MEDICAL OFFICES

GROSS AREA:  
FIRST FLOOR: 3,304 SQ. FT.

AREA TO BE RENOVATED: - 3,304 SQ. FT.

NUMBER OF STORIES: 1

INTERIOR WALL AND CEILING FINISHES SHALL BE CLASS A OR CLASS B  
INTERIOR FLOOR FINISHES IN EXIT ENCLOSURES SHALL BE NOT LESS THAN CLASS II

OCCUPANT LOAD PER TABLE 7.3.1.2

BUSINESS (100 GROSS) 3,304 SF / 100 = 34

EGRESS WIDTH PER TABLE 7.3.1.1:

EGRESS WIDTH, FIRST FLOOR: 34 X 0.20 = 6.8' REQUIRED. 72" PROVIDED.

BUSINESS OCCUPANCY - UNSPRINKLERED

ALLOWABLE DEAD END LIMIT = 20 FT.  
(TABLE A.7.6)

ALLOWABLE COMMON PATH LIMIT = 75 FT.  
(TABLE A.7.6)

ALLOWABLE TRAVEL DISTANCE LIMIT = 200 FT.  
(TABLE A.7.6)

FIRE ALARM SYSTEM IS NOT PROPOSED.

PORTABLE FIRE EXTINGUISHER (LS 9.7.4): PER NFPA 10 'STANDARD FOR PORTABLE FIRE EXTINGUISHERS'.  
SEE PLAN FOR LOCATIONS

FIRE-STOP SYSTEMS  
THROUGH-PENETRATION FIRE-STOP SYSTEMS SHALL CONFORM TO THE FOLLOWING:

METALLIC PIPE, CONDUIT OR TUBING UL SYSTEM W-L-1054

NON-METALLIC PIPE, CONDUIT OR TUBING UL SYSTEM W-L-2098

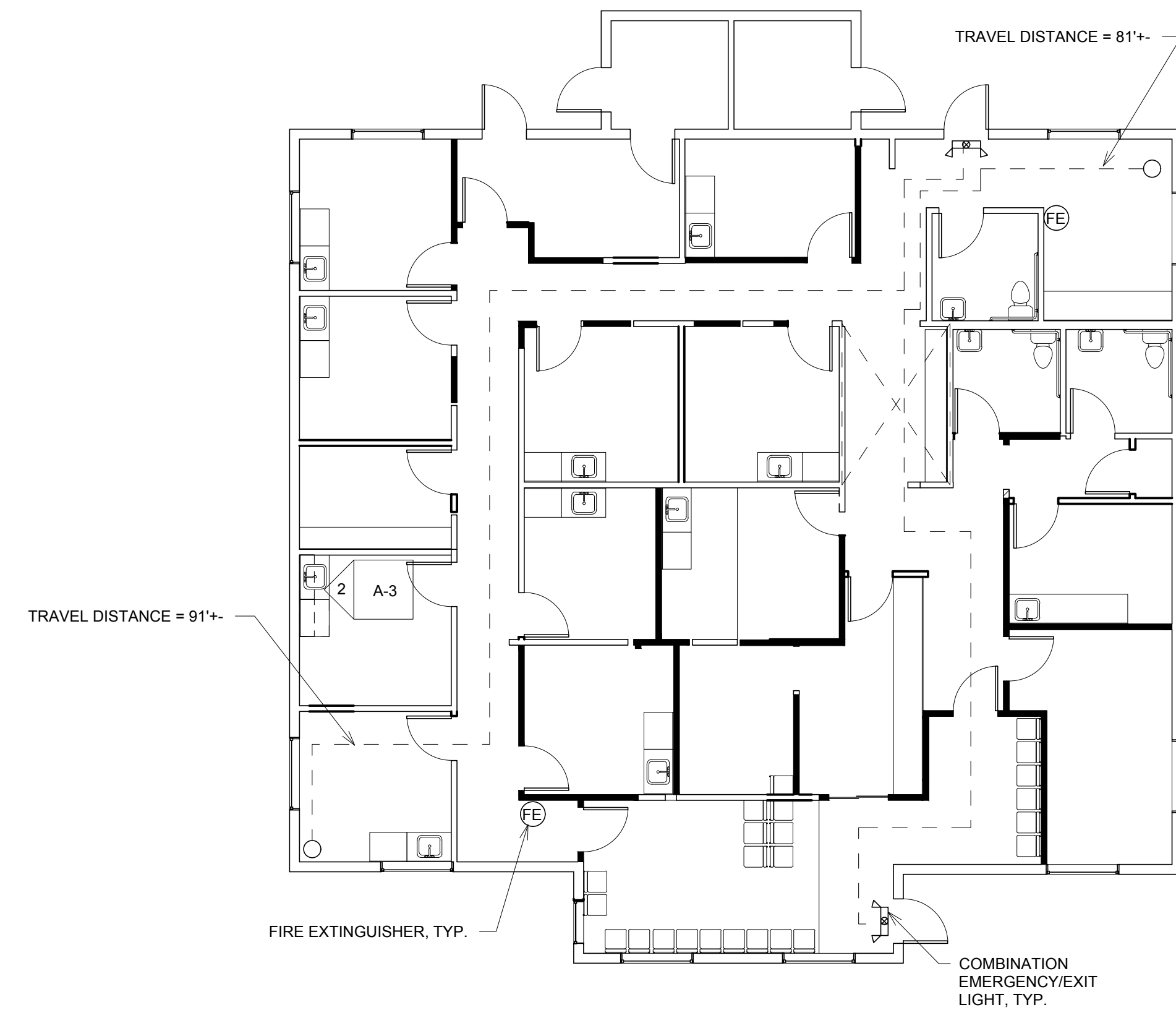
TELEPHONE AND ELECTRICAL CABLES UL SYSTEM W-L-3065

INSULATED METALLIC PIPE UL SYSTEM W-L-5021

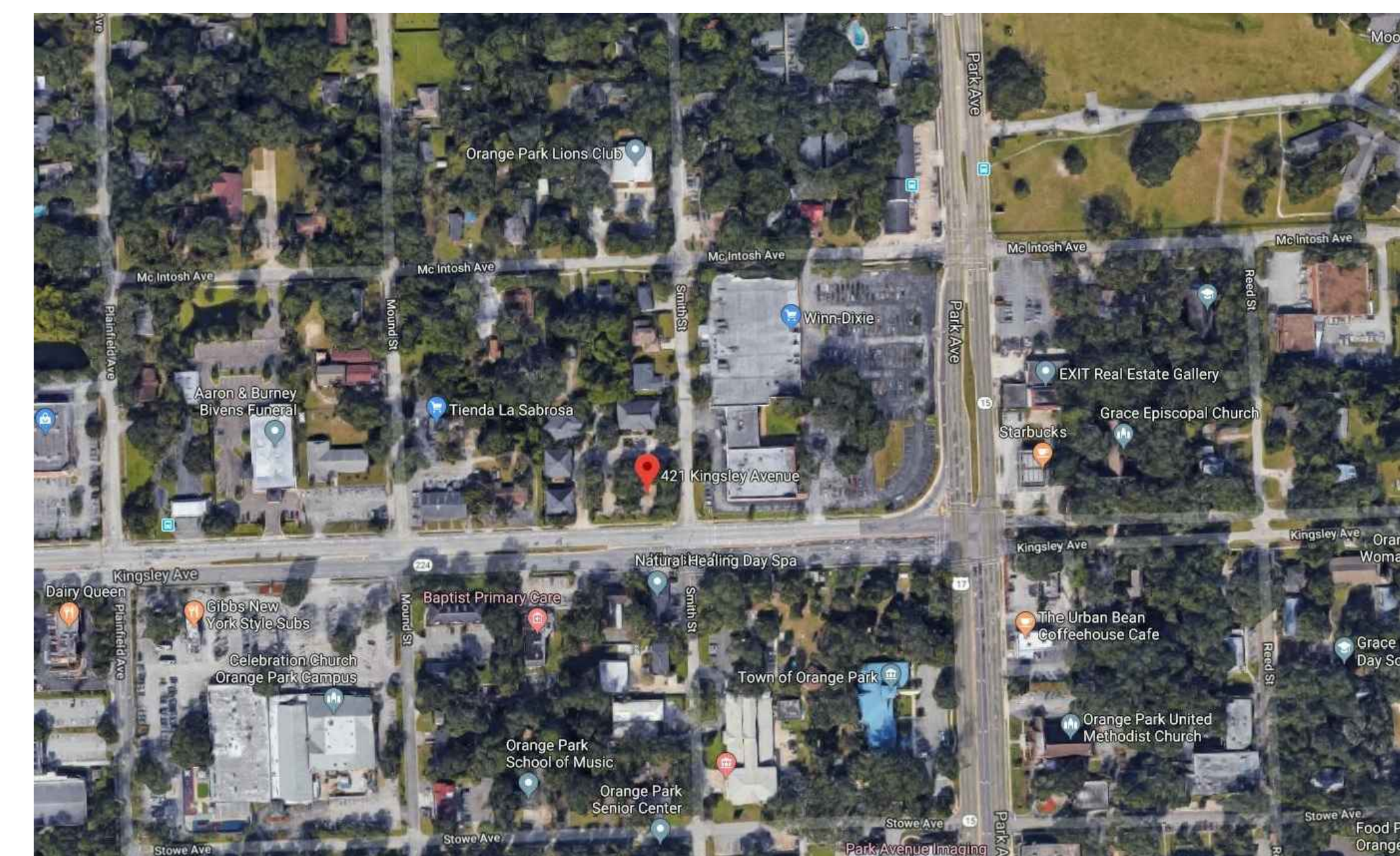
MISC. ELECTRICAL PENETRATIONS UL SYSTEM W-L-3065

MISC. MECHANICAL PENETRATIONS UL SYSTEM W-L-7003

ARCHITECT'S STATEMENT: TO THE BEST OF MY KNOWLEDGE, THIS DESIGN COMPLIES WITH THE REQUIREMENTS OF THE SIXTH EDITION OF THE FLORIDA FIRE PREVENTION CODE. (FFPC)



① LIFE SAFETY PLAN  
1/8" = 1'-0"



LOCATION MAP

**DESIGN DEVELOPMENT  
Architecture Incorporated**

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**COASTAL MEDICAL  
421 KINGSLEY AVENUE  
ORANGE PARK, FL  
COVER SHEET**

**REVISIONS**

D. SCOTT FRASER

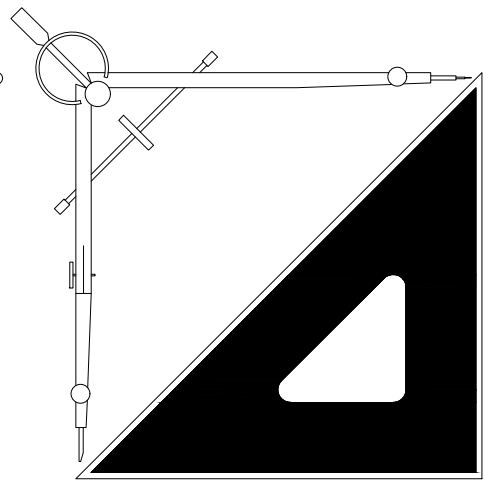
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SCALE  
1/8" = 1'-0"

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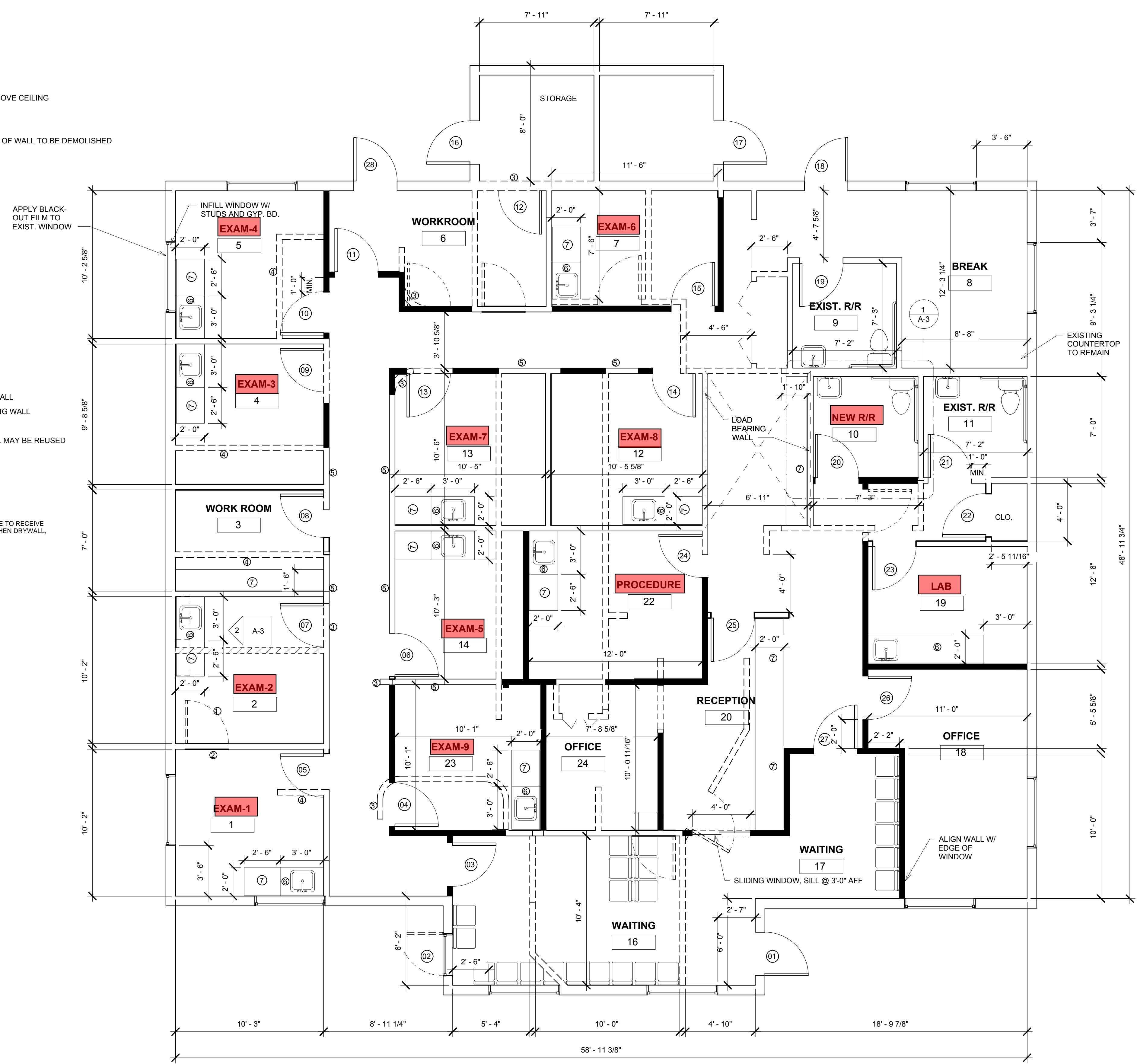
**C-1**



- NEW WALL TO 6" ABOVE CEILING
- WALL TO REMAIN
- WALL, OR PORTION OF WALL TO BE DEMOLISHED

- CODED NOTES**
- ① REMOVE DOOR AND FRAME
  - ② INFILL PORTION OF EXISTING WALL
  - ③ DEMOLISH PORTION OF EXISTING WALL
  - ④ DEMOLISH EXISTING WALL
  - ⑤ EXISTING LOW PARTITION WALL MAY BE REUSED
  - ⑥ COUNTERTOP @ 34" AFF
  - ⑦ COUNTERTOP @ 30" AFF

WALLS IN THESE ROOMS ARE TO RECEIVE SOUND BATT INSULATION, THEN DRYWALL, LEVEL 5 FINISH AND PAINT



① FLOOR PLAN  
1/4" = 1'-0"

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**COASTAL MEDICAL**  
 421 KINGSLEY AVENUE  
 ORANGE PARK, FL  
**FLOOR PLAN**

REVISIONS

D. SCOTT FRASER

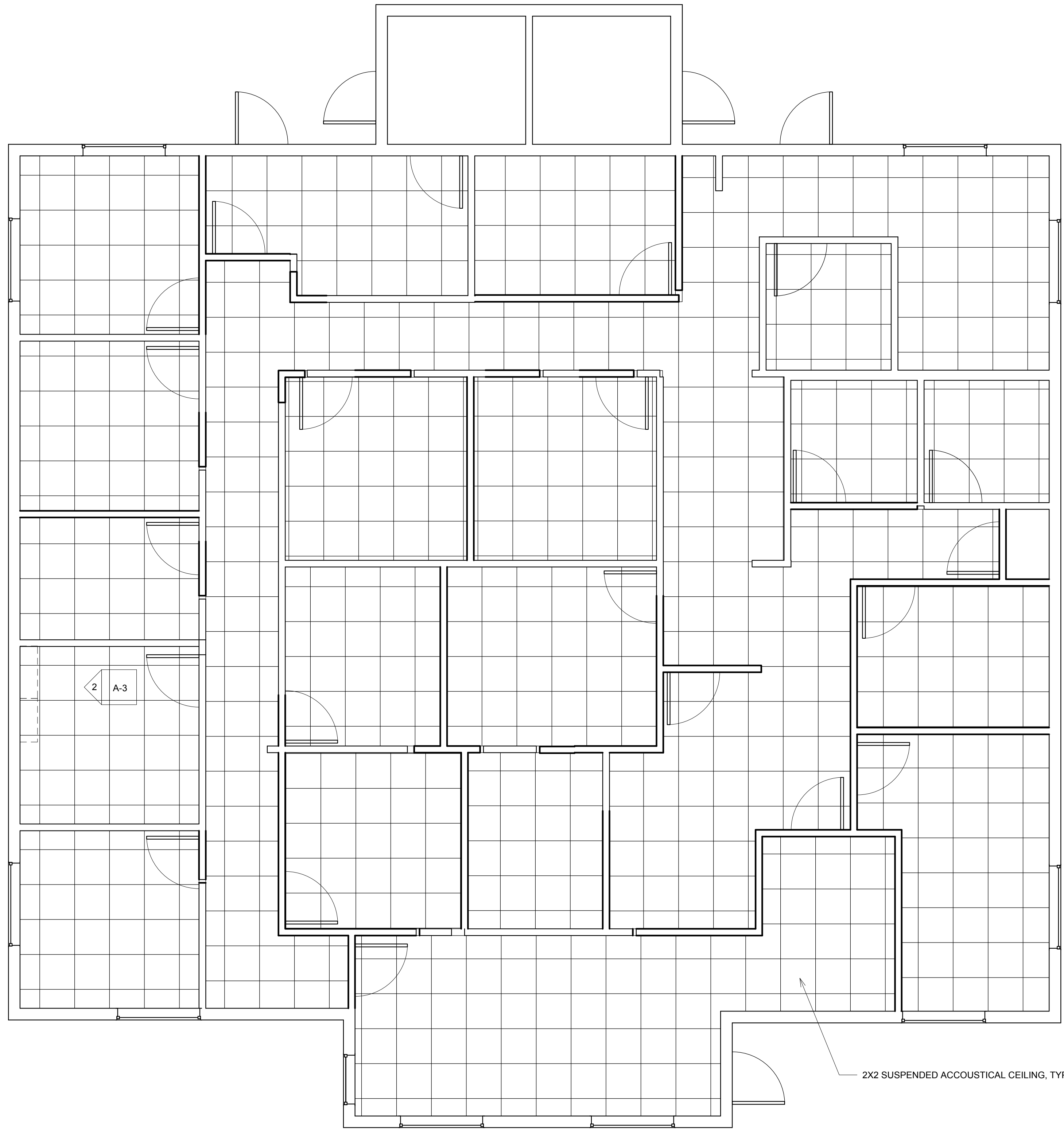
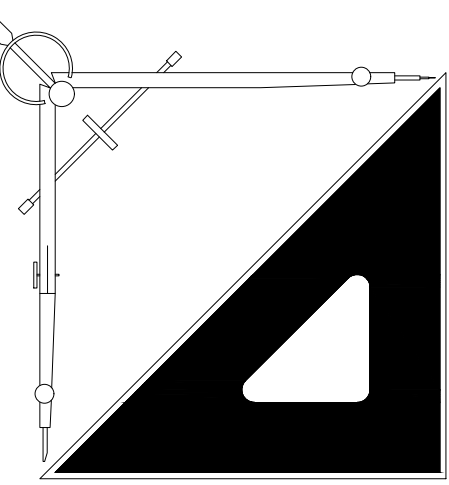
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1/4" = 1'-0"

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**A-1**



2 A-3

2X2 SUSPENDED ACCOUSTICAL CEILING, TYP.

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**COASTAL MEDICAL  
421 KINGSLEY AVENUE  
ORANGE PARK, FL  
CEILING PLAN**

REVISIONS

D. SCOTT FRASER

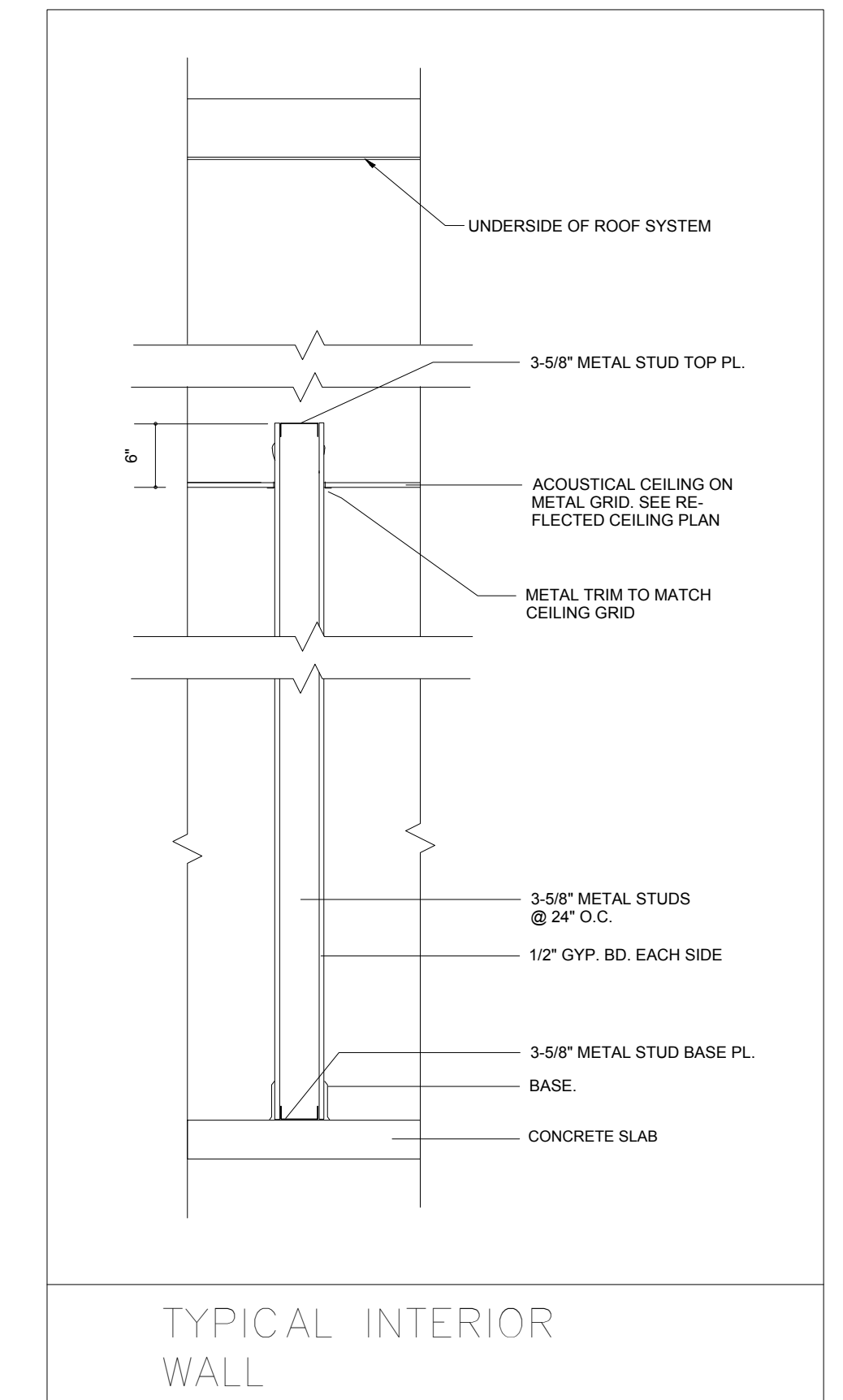
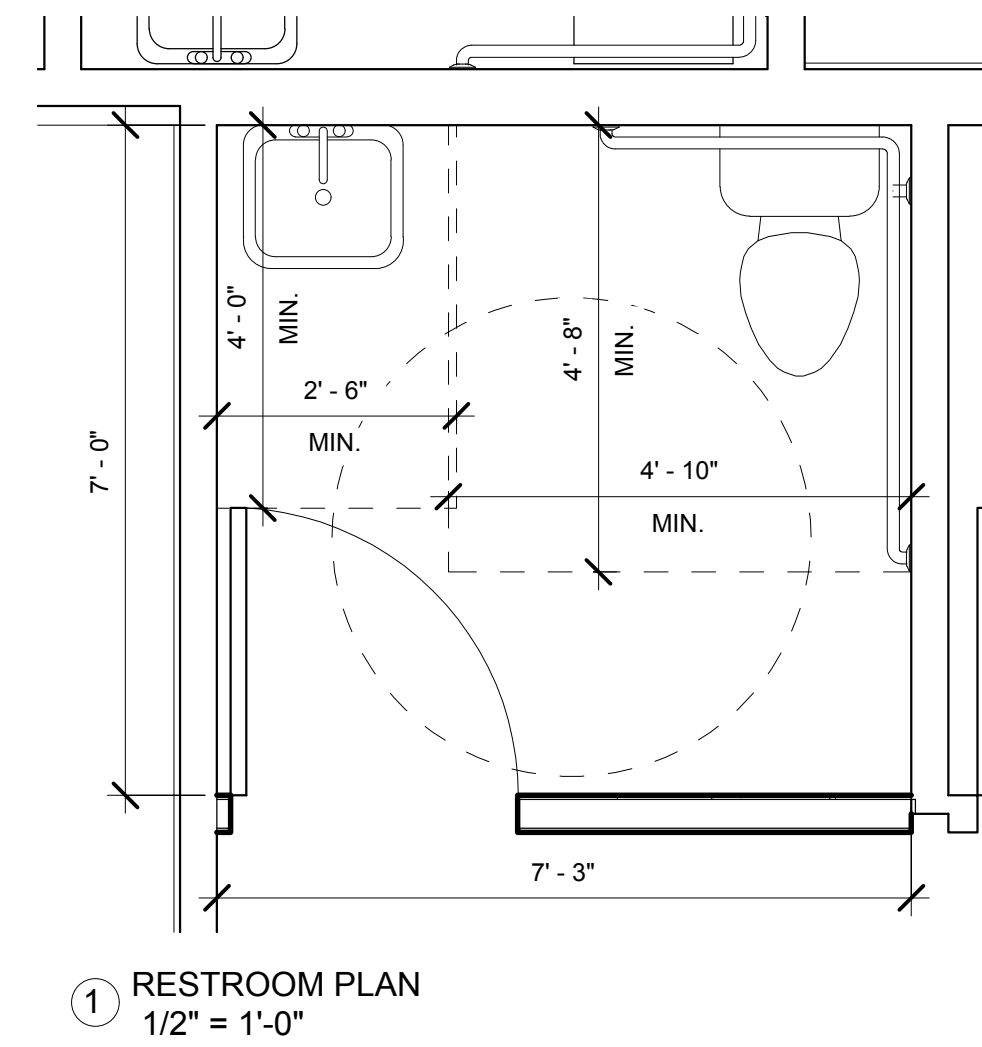
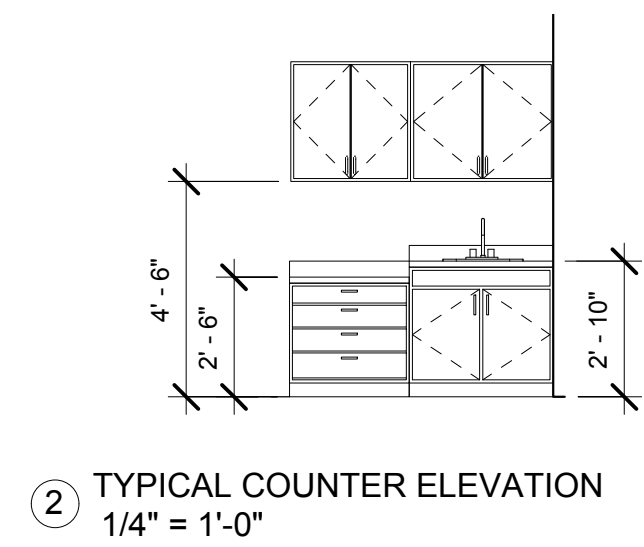
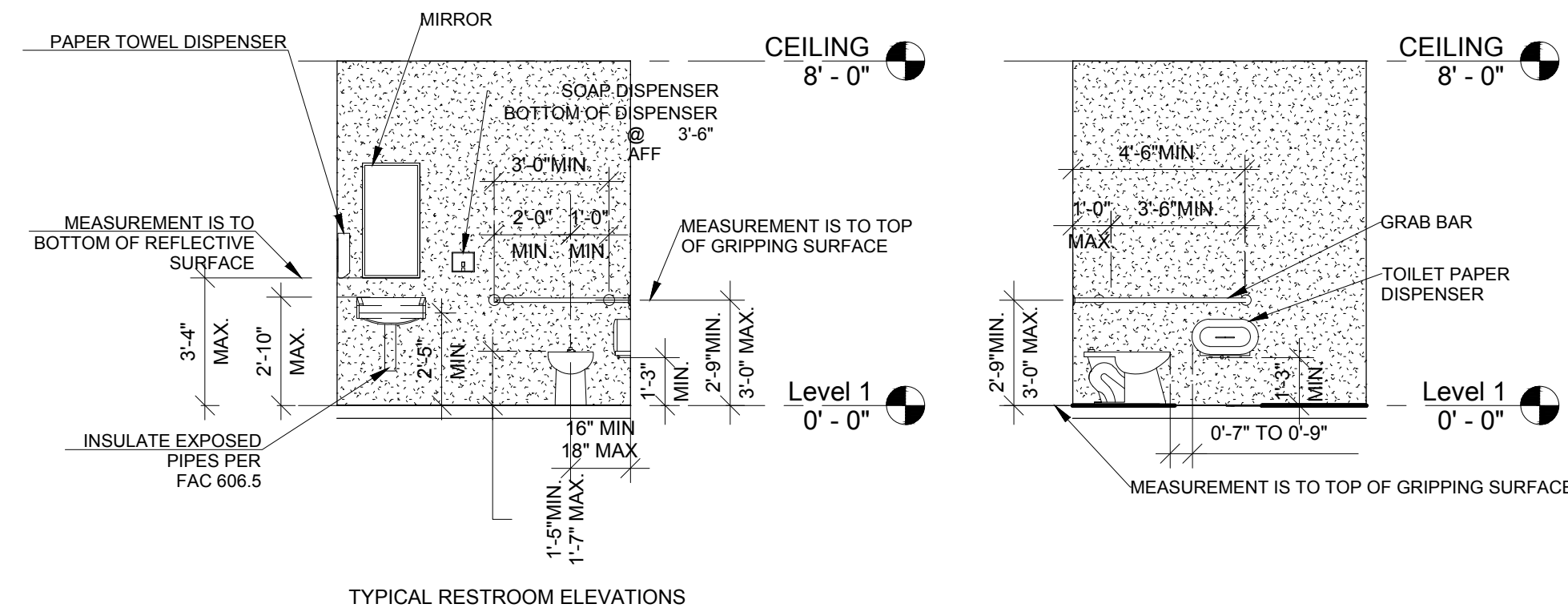
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DOOR SCHEDULE						
DOOR	SIZE	MATERIAL	GLASS	JAMB	HARDWARE	REMARKS
01	36" WIDE				DEADBOLT	EXIST. DOOR TO REMAIN
02	36" WIDE				DEADBOLT	SECURE EXIST. DOOR
03	3070	S.C. WOOD	VIEW	H.M.	PASSAGE	
04	3070	S.C. WOOD	NONE	H.M.	PASSAGE	
05	3070	S.C. WOOD	NONE	H.M.	PASSAGE	
06	3070	S.C. WOOD	NONE	H.M.	PASSAGE	
07	3070	S.C. WOOD	NONE	H.M.	PASSAGE	
08	3070	S.C. WOOD	NONE	H.M.	PASSAGE	
09	3070	S.C. WOOD	NONE	H.M.	PASSAGE	
10	3070	S.C. WOOD	NONE	H.M.	PASSAGE	
11	3070	S.C. WOOD	NONE	H.M.	PASSAGE	
12	3070	S.C. WOOD	NONE	H.M.	PASSAGE	
13	3070	S.C. WOOD	NONE	H.M.	PASSAGE	
14	3070	S.C. WOOD	NONE	H.M.	PASSAGE	
15	3070	S.C. WOOD	NONE	H.M.	PASSAGE	
16	36" WIDE					EXIST. DOOR TO REMAIN
17	36" WIDE					EXIST. DOOR TO REMAIN
18	36" WIDE					EXIST. DOOR TO REMAIN
19	36" WIDE	S.C. WOOD	NONE		PRIVACY	EXIST. DOOR TO REMAIN
20	3070	S.C. WOOD	NONE	H.M.	PRIVACY	
21	36" WIDE	S.C. WOOD	NONE	H.M.	PRIVACY	
22	3070	S.C. WOOD	NONE	H.M.	PASSAGE	
23	3070	S.C. WOOD	NONE	H.M.	PASSAGE	
24	3070	S.C. WOOD	NONE	H.M.	PASSAGE	
25	3070	S.C. WOOD	NONE	H.M.	PASSAGE	
26	3070	S.C. WOOD	NONE	H.M.	PASSAGE	
27	3070	S.C. WOOD	VIEW	H.M.	PASSAGE	
28	36" WIDE					SECURE EXIST. DOOR

DOOR CLOSERS SHALL BE PROVIDED IN COMPLIANCE WITH SECTION 404.2.9 AND SECTION 309 FBC ACCESSIBILITY. ALL DOOR HARDWARE SHALL BE LEVER-ACTIVATED. STOREFRONT DOOR W/ THUMB OPERATED LOCKING DEVICE TO COMPLY W/ FBC SECTION 1008.1.9.3. POST SIGN ON OR ADJACENT TO DOOR W/ MIN. 1" LETTERS: "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED". PANIC HARDWARE SHALL COMPLY WITH SECTION 7.2.1.7 FLORIDA FIRE PREVENTION CODE!

## PLUMBING FIXTURE SCHEDULE

FIXTURE	DESCRIPTION	MANUFACTURER	WASTE	CW	HW
WC-1	<b>WATER CLOSET, ADA</b> CADET, RIGHT HEIGHT, ELONGATED TOILET, VITREOUS CHINA, FLOOR MOUNTED, FLOOR OUTLET, FLUSH TANK TYPE, LOW CONSUMPTION 1.6 GPF. SEAT INSTALLED 18" HIGH FROM FINISH FLOOR TO TOP OF SEAT.  SEAT: EXTRA HEAVY DUTY PLASTIC, OPEN FRONT SEAT LESS COVER WITH CONCEALED CHECK AND STAINLESS STEEL HINGE POST.  STOPS/ACCESSORIES: 1/2" CHROME PLATED BRASS WHEEL HANDLE ANGLED STOP, CHROME PLATED STEEL FLANGE AND 12" FLEXIBLE CHROME PLATED COPPER RISER. HEAVY DUTY WAX BOWL RING, WAX GASKET FOR SETTING ANY FLOOR TYPE WATER CLOSET BOWL.	AMERICAN STANDARD #2998.012  BEMIS CHURCH OLSONITE  MCGUIRE MANUFACTURING  OATEY 31190	3"	1/2"	-
L-1	<b>LAVATORY, ADA</b> DECLYN WALL HUNG SINK, VITREOUS CHINA, FAUCET HOLES ON 4" CENTERS. FAUCET: THERMOSTATIC ASSE 1070 LISTED, 4" CENTERS, LEAD FREE CAST BRASS, 6" SINGLE LEVER HANDLE, DECK PLATE STOPS/ACCESSORIES: 1/2" CHROME PLATED BRASS WHEEL HANDLE ANGLED STOP, CHROME PLATED STEEL FLANGE AND 12" FLEXIBLE CHROME PLATED COPPER LAVATORY RISERS. GRID DRAIN WITH OFFSET TAILPIECE AND CHROME PLATED P-TRAP MOUNT AT HANDICAPPED HEIGHT. SUPPLY CONCEALED ARM SUPPORT CARRIER FOR MOUNTING OF LAVATORY.	AMERICAN STANDARD #0321.075 WATTS #P1070-6  MCGUIRE MANUFACTURING	1-1/4"	1/2"	1/2"
S-1	<b>SINK</b> SINGLE COMPARTMENT, 20 GAUGE, TYPE 304 STAINLESS STEEL, 17"D x 21"W x 7" DEEP BOWL. FAUCET: CHROME PLATED BRASS, CONCEALED MIXING FAUCET, GOOSENECK SPOUT, WRIST BLADE HANDLES DRAIN: STAINLESS STEEL PERFORATED STRAINER GRID.  STOPS/ACCESSORIES: 1/2" CHROME PLATED BRASS WHEEL HANDLE ANGLED STOPS, PVC P-TRAP	ELKAY CR1721  ELKAY LK810HA08T4  ELKAY LK18  MCGUIRE, CS & B	1-1/2"	1/2"	1/2"
ECW-1	<b>ELECTRIC WATER COOLER, ADA</b> BI-LEVEL PRESSURE DRINKING WATER COOLER, DELIVER 8 GPH OF WATER AT 50°F COOLED FROM 90°F INLET WATER AT 90°F AMBIENT. EACH COOLER HAVE FRONT AND SIDE MOUNTED PUSH PADS, HEAVY DUTY GALVANIZED FRAME SHALL SUPPORT POWDER COATED GALVANIZED EXTERIOR PANELS.	SUNROC ADAD8BL	1-1/4"	1/2"	-
IM-1	<b>ICE MAKER SUPPLY BOX</b> GALVANIZED STEEL (UNPAINTED) FINISH ICE MAKER BOX. 11-5/8"W x 9-1/2"H OVERALL DIMENSIONS WITH 1/2" FIP INLET X 1/4" OD OUTLET COMPRESSION ANGLE VALVE AND 1/2" MPT SUPPLY CONNECTION.	GUY GRAY #BIM876	-	1/2"	-

NOTES:  
1. FURNISH SPECIFIED PLUMBING FIXTURES OR APPROVAL EQUAL

## PLUMBING MATERIAL SPECIFICATIONS

**SANITARY WASTE/VENT PIPING:**  
TUBE: PVC SCHEDULE 40 DWV, ASTM D 1785, FOAM CORE NOT ACCEPTED  
FITTINGS: PVC PLASTIC FITTINGS, SCHEDULE 40, ASTM D 2466, FOAM CORE NOT ACCEPTED  
JOINTS: SOLVENT CEMENTS FOR PVC PIPE AND FITTINGS, ASTM D 2564. FOAM CORE NOT ACCEPTED  
PROVIDE FIRE WRAP FOR PVC PIPE IN PLENUM CEILING AREAS, 3M FIRE BARRIER PLENUM WRAP 5A OR EQUAL

**DOMESTIC WATER PIPING:**  
TUBE: CPVC, SCHEDULE 40 PIPE, PLASTIC HOT AND COLD WATER DISTRIBUTION SYSTEMS, ASTM F441  
FITTINGS: CPVC PLASTIC FITTINGS, SCHEDULE 40, ASTM F438  
JOINTS: SOLVENT CEMENTS FOR CPVC PIPE AND FITTINGS, ASTM F493  
NOTE: PIPING MATERIAL SPEC SHALL HAVE A FLAME SPREAD INDEX OF 25 OR LESS AND SMOKED DEVELOPED INDEX OF 50 OR LESS FOR AIR PLENUM APPLICATION.

**VALVES**  
ALL VALVES FOR DOMESTIC WATER USAGE SHALL BE A MIN. 125# BRONZE, FULL PORT, BALL VALVE, THREADED, OPERATING PRESSURE SHALL NOT EXCEED 80% OF THE VALVE PRESSURE CLASS.

**SUPPORTS**  
PROVIDE PIPING HANGERS AND SUPPORTS SIZED AND SPACED PER CURRENT LOCAL CODE AND PROVIDE 6" SADDLES UNDER ALL INSULATED PIPING

**SHOCK ARRESTORS**  
PROVIDE SHOCK ARRESTORS PER CODE SIZED TO PDI STANDARDS. AIR CHAMBERS ARE NOT ACCEPTABLE.

**TRAP PRIMERS**  
PROVIDE TRAP PRIMERS FOR ALL FLOOR AND HUB DRAINS

## PUMP SCHEDULE

NO.	MANUFACTURER	MODEL NO.	QUANTITY	GPM FLOW	HEAD PRESSURE	POWER	H.P.	RPM	REMARKS
RP-1	GRUNDFOS	UP-25-64 SF	1	2.0 GPM	1.7 FT (.75 PSI)	115/1/60	1/12	SINGLE SPEED	DOMESTIC HOT WATER RECIRCULATING PUMP.

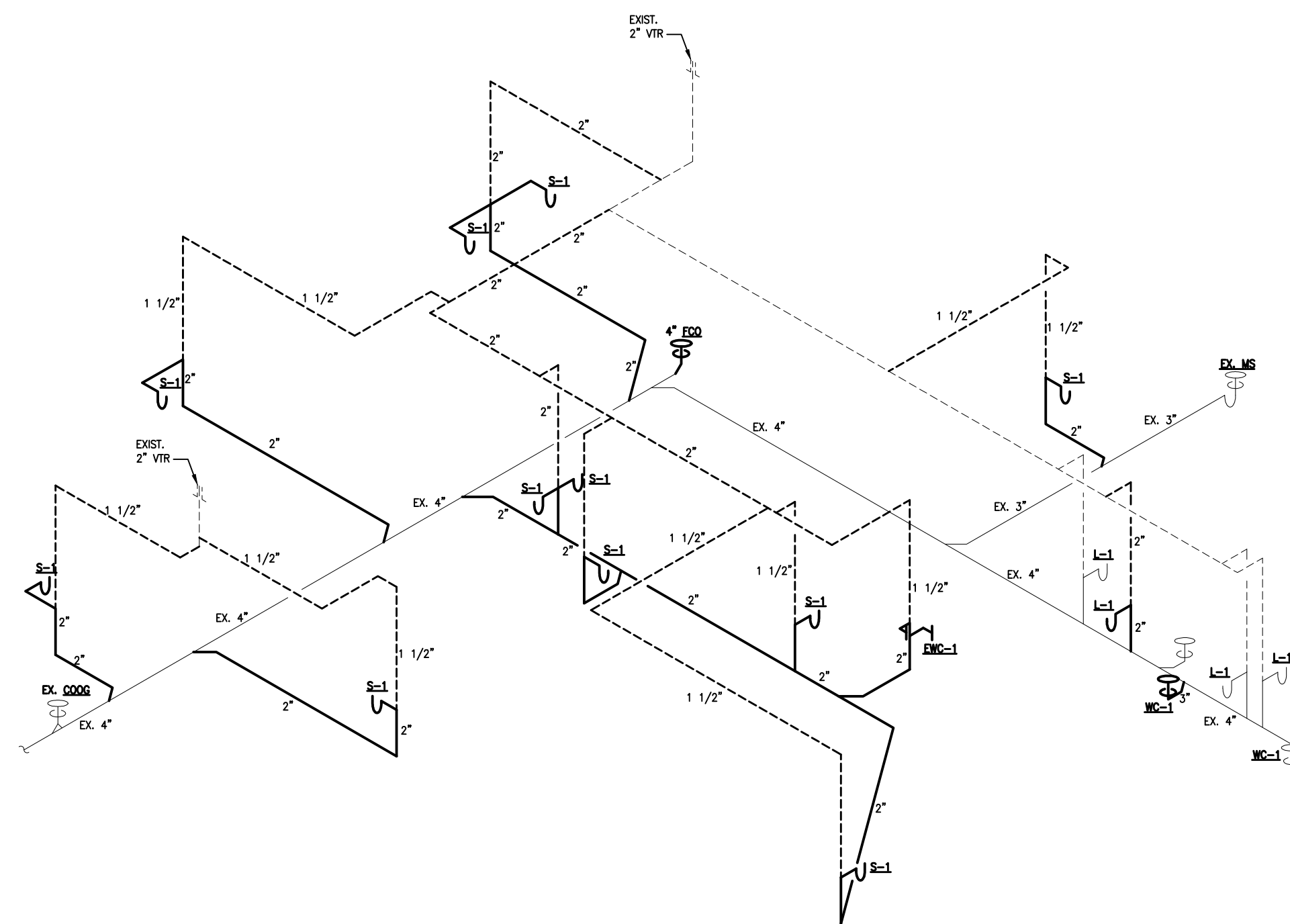
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## PLUMBING LEGEND

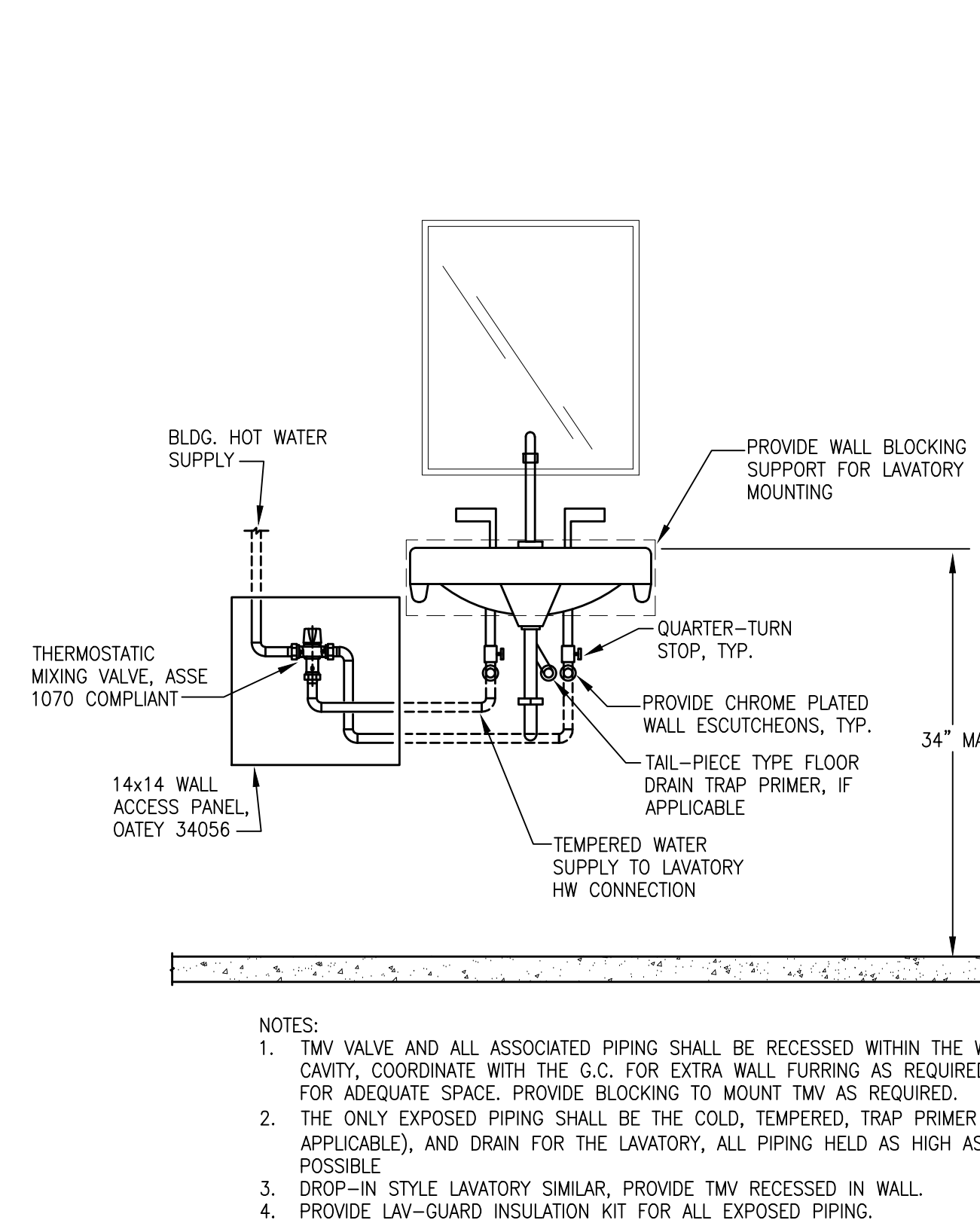
PIPING & VALVES:	ABBREVIATIONS & SYMBOLS:
	NEW SANITARY (S)
	EXISTING SANITARY (S)
	NEW COLD WATER (CW)
	EXISTING COLD WATER (CW)
	HOT WATER (HW)
	NEW VENT (V)
	EXISTING VENT (V)
	NEW GREASE WASTE (GW)
	EXISTING GREASE WASTE (GW)
	FLOOR DRAIN
	WALL HYDRANT
	HOSE BIBB
	LAVATORY
	MOP SINK
	SINK
	SHOCK ARRESTOR - P.P.I. SIZE
	SERVICE SINK
	THERMOSTATIC MIXING VALVE
	URINAL
	WATER CLOSET
	WASHER BOX
	SANITARY
	GREASE WASTE
	COLD WATER
	POINT OF CONNECTION - NEW WORK TO EXISTING
	BALL VALVE
	BUTTERFLY VALVE
	GATE VALVE
	GLOBE VALVE
	STRAINER
	PIPE UNION
	CHECK VALVE
	ASME PRESSURE/TEMPERATURE RELIEF VALVE
	PIPE UP
	PIPE DOWN

## PLUMBING GENERAL NOTES

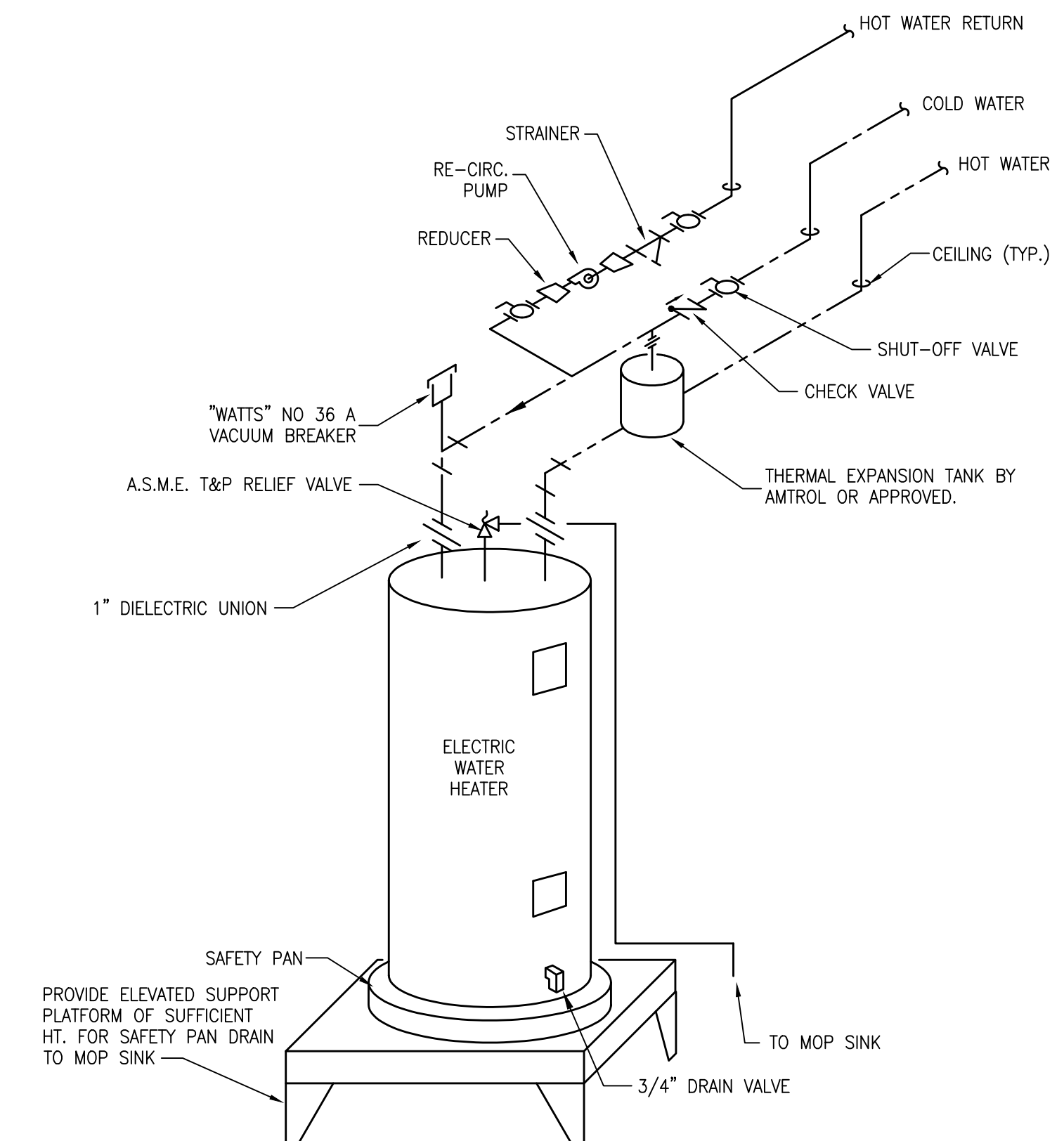
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE 6TH EDITION - PLUMBING, NFPA 70, NFPA 101, AND THE AMERICAN DIABILITIES ACT (ADA).
- PLANS ARE NOT COMPLETELY TO SCALE. PIPE ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO INDICATE EXACT ROUTING AND ANY ADDITIONAL OFFSETS 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.
- SLEEVE AND FIRE STOP PENETRATIONS OF RATED WALLS, FLOORS, CEILINGS AND ROOFS. FLASH AND COUNTERFLASH ROOF PENETRATIONS.
- PROVIDE SHOP DRAWINGS OF PLUMBING FIXTURES, PIPING MATERIALS, FITTINGS, INSULATION, VALVES, AND EQUIPMENT FOR REVIEW BY ENGINEER OF RECORD. SHOP DRAWINGS SHALL BE IN ELECTRONIC FORMAT, BE COMPLETE INCLUDING ALL ITEMS REQUIRED IN THE PLUMBING CONTRACT WITH SPECIFIC COLORS, SIZES, MODELS, ETC CHECKED ON APPROPRIATE PAGES. IN-COMPLETE BOOKLETS PUT TOGETHER BY A FIXTURE MANUFACTURER WILL BE REJECTED AND RETURNED.



**RISER DIAGRAM - PLUMBING**  
NOT TO SCALE



**LAVATORY DETAIL**  
NOT TO SCALE



**WATER HEATER DETAIL**  
NO SCALE



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**COASTAL MEDICAL**  
421 KINGSLEY AVENUE  
ORANGE PARK, FL  
**SCHEDULE & DETAILS - PLUMBING**

REVISIONS

DATE

04/30/2019

JOB NUMBER

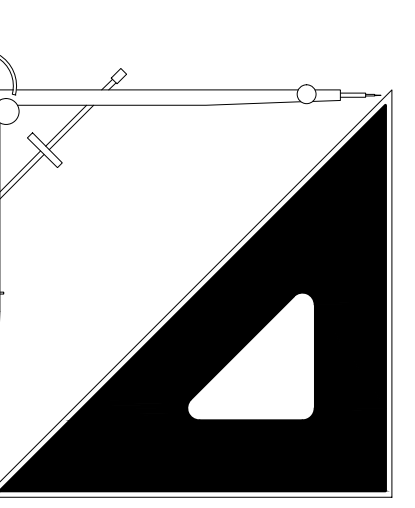
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SCALE

AS NOTED

DRAWING NUMBER

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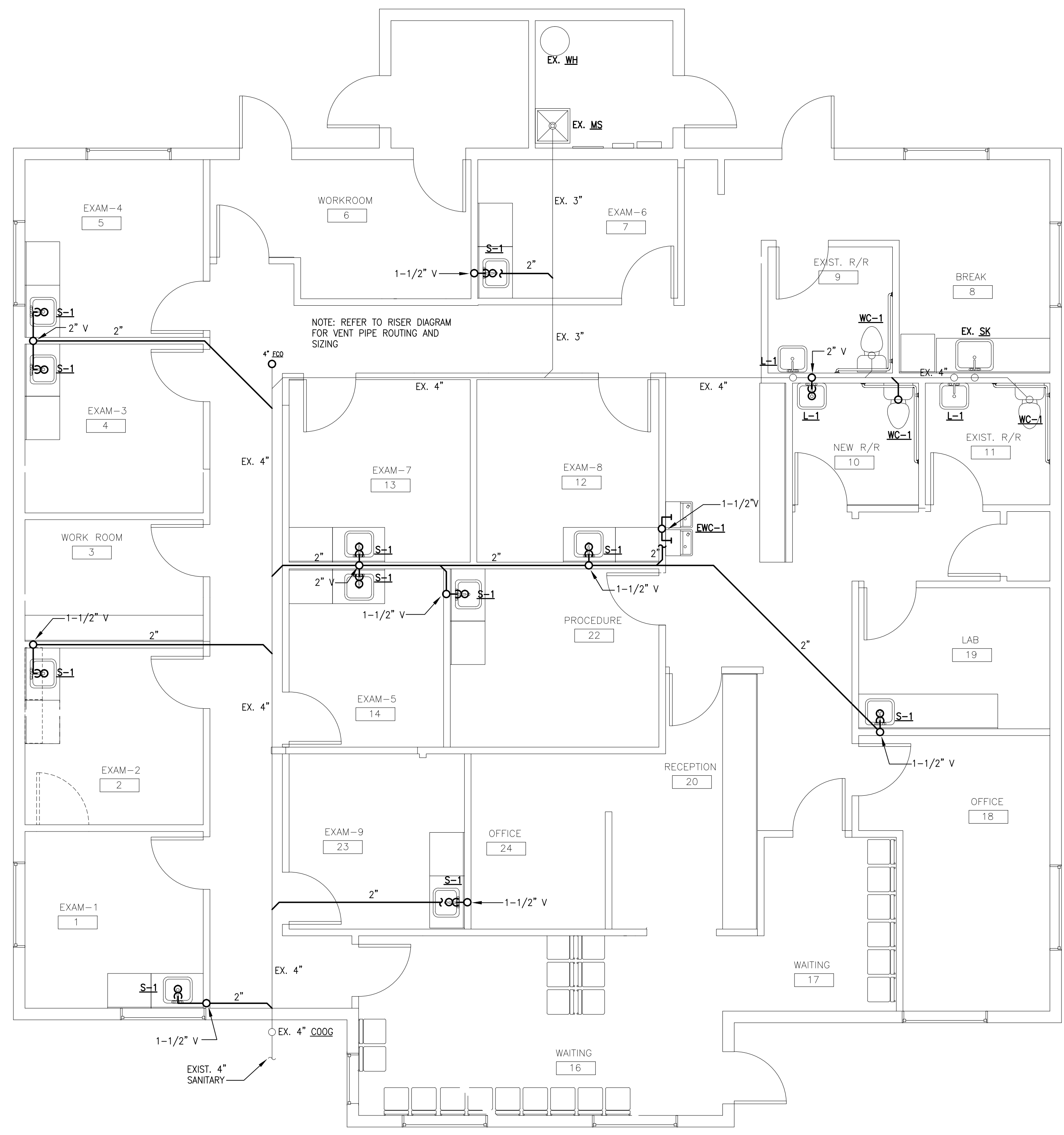
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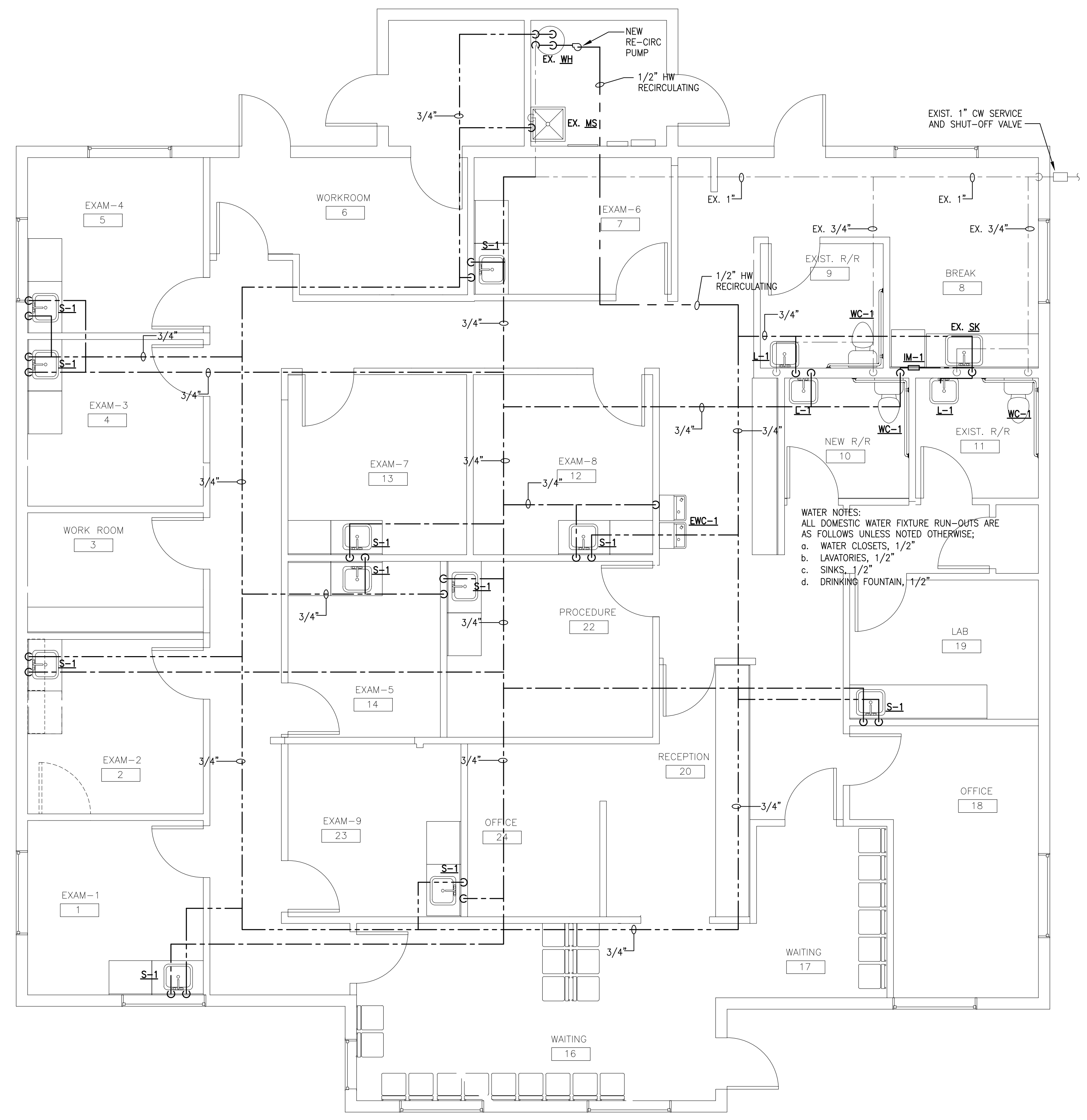
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SCALE  
AS NOTED

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**P-1**



 **FLOOR PLAN - SANITARY**  
SCALE: 1/4" = 1'-0"



 **FLOOR PLAN - WATER**  
SCALE: 1/4" = 1'-0"

### DESIGN CONDITIONS

**EXTERIOR DESIGN CONDITIONS**  
SUMMER; DRY/WET BULB 96°F/77°F  
WINTER; DRY BULB 29°F

**INTERIOR DESIGN CONDITIONS**  
SUMMER; OWNER HAS ELECTED TO RE-USE THE EXISTING A/C EQUIP.  
WINTER; 68°F

### MECHANICAL LEGEND

- EXISTING FIRE DAMPER W/ACCESS DOOR
- CEILING SUPPLY DIFFUSER
- CEILING RETURN GRILLE
- EXISTING CARBON FILTER SCRUBBER
- CEILING SUPPLY DIFFUSER
- CEILING RETURN GRILLE
- CEILING EXHAUST GRILLE/FAN
- SPIN-IN TAP AND FLEX DUCT W/ MAN. VOL. DAMPER
- REFRIGERANT PIPING
- RELOCATED THERMOSTAT LOCATION
- FLEXIBLE DUCT
- EXISTING DUCT/EQUIP. TO REMAIN
- EXISTING DUCT/EQUIP. TO BE DEMOLISHED
- EXISTING THERMOSTAT
- EXISTING FLEXIBLE DUCT
- RELOCATION ARROW
- EXISTING SUPPLY REGISTER
- EXISTING RETURN GRILLE
- EXISTING EXHAUST GRILLE

### GENERAL NOTES AND SPECIFICATIONS

- ALL WORK SHALL BE IN ACCORDANCE WITH THE FBCM 2017, 6TH EDITION.
- ALL AIR DISTRIBUTION COMPONENTS SHALL COMPLY WITH SECTION 13-410 OF THE FBCM.
- A/C EQUIPMENT FOR THE SPACE IS EXISTING TO REMAIN. UNITS SHALL BE EVALUATED FOR PROPER OPERATION AND REPAIRS PERFORMED IN ACCORDANCE WITH FMC SECTION 301.14. PROVIDE NEW LABELS PER FMC 301.8 AND 301.9. PROVIDE NEW 1" MEDIUM EFFICIENCY PLEATED FILTERS. PROVIDE NEW PROGRAMMABLE THERMOSTAT IF NOT EXISTING.
- ANY NEW SUPPLY AND RETURN DUCTS FOR THE SPACE SHALL BE RIGID, FIBERGLASS DUCT-BOARD, 1.5" THICK. FLEXIBLE DUCTS SHALL BE R-6.5 CLASS 1, NOT EXCEED 10'. WHERE BRANCH DUCTS EXCEED 10' IN LENGTH PROVIDE ROUND SHEET-METAL DUCT EXTENSION INSULATED WITH 2" FIBERGLASS DUCT WRAP PRIOR TO TRANSITION TO FLEXIBLE DUCT.
- TEST AND BALANCE SHALL BE BY MECHANICAL CONTRACTOR.
- PROVIDE 1 YEAR WARRANTY ON LABOR AND MATERIAL BY CONTRACTOR.

### EXISTING A/C EQUIPMENT SCHEDULE

PLAN MARK	BASIS OF DESIGN	NOMINAL TONS	AIR FLOWS				FAN DATA				COOLING COIL				UNIT ELEC. DATA							
			TOTAL CFM	OA CFM	EXT. SP	TOT. SP	HP	TYPE	DESIGN CONDITIONS	SEN. MBH	TOTAL MBH	MAX. FPM	HEAT. KW	HEAT STAGES	MCA	MOCOP	VOLT/PHASE	SYSTEM SEER/EER	UNIT WT.			
AHU/HP-1	TRANE TWE/TWR-060	5	1860	150	0.8	-	-	FC	-	-	-	-	-	-	-	10.0	-	-	60	208/1	13.0	-
AHU/HP-2	TRANE TWE/TWR-060	5	1900	150	0.8	-	-	FC	-	-	-	-	-	-	-	10.0	-	-	60	208/1	13.0	-

NOTES:  
1. RE-BALANCE UNITS TO THE SCHEDULED VALUES.  
2. PROVIDE THE FOLLOWING OPTIONS/ACCESSORIES IF NOT EXISTING:  
a. MOTORIZED TWO-POSITION OUTSIDE AIR DAMPER.  
b. TEST EXISTING DUCT SMOKE DETECTORS AND AUDIBLE-VISUAL INDICATORS FOR PROPER OPERATION.  
c. ---

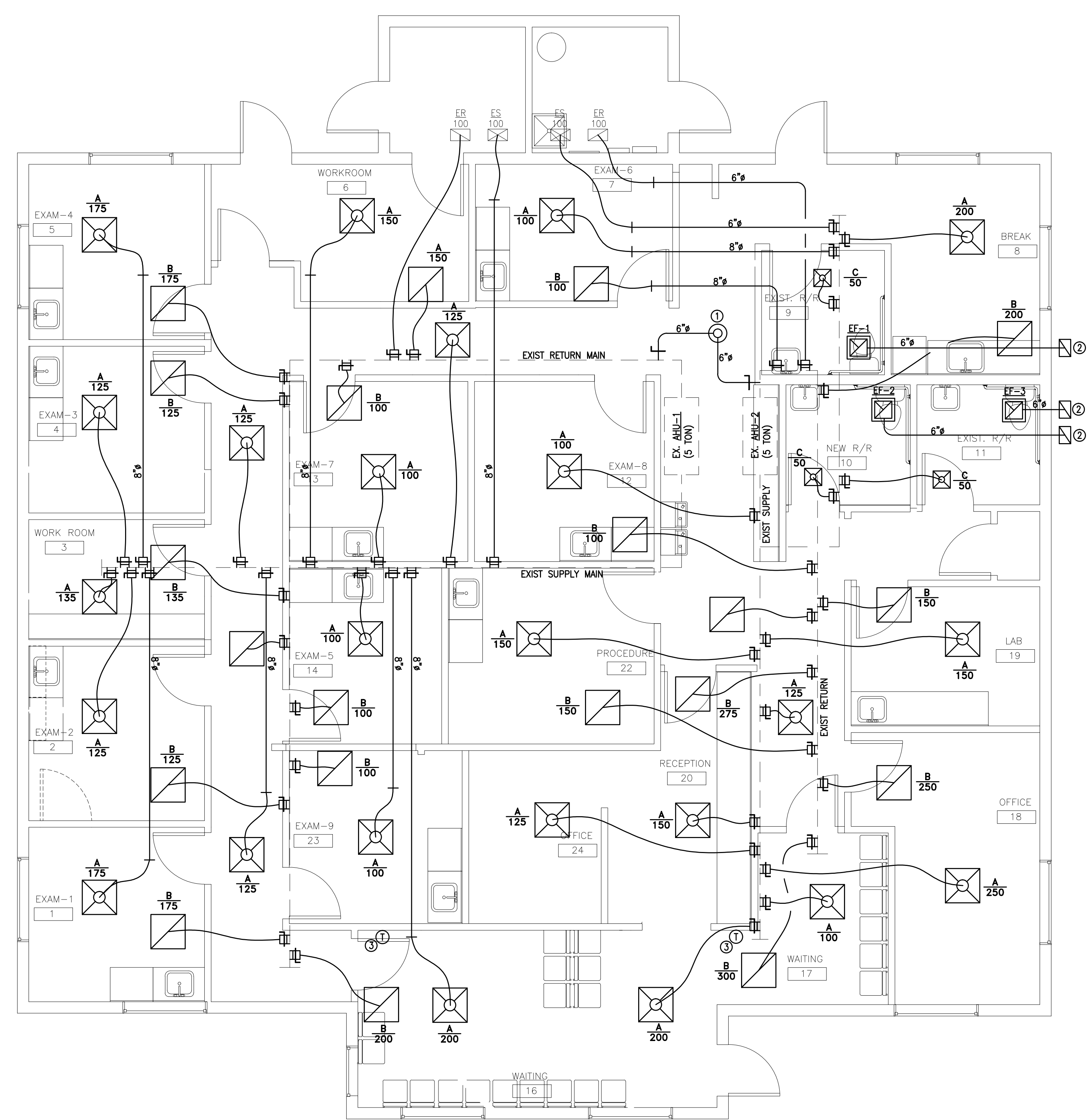
### ROOF-TOP UNIT SEQUENCE OF OPERATION:

- SUPPLY FAN IS ENERGIZED BY A TWO POSITION SWITCH. WHEN THE SWITCH IS CLOSED IT SHALL ENERGIZE THE SYSTEM PROVIDING POWER TO ALL COMPONENTS AND LOW VOLTAGE CONTROL TO ALL CONTROL DEVICES.
- ROOF-TOP UNIT SHALL BE CONTROLLED WITH A WALL MOUNTED THERMOSTAT DEVICE CONTROLLING SPACE TEMPERATURE. THE THERMOSTAT SHALL INCLUDE OFF-AUTO-COOLING-HEATING MODES AND TIME-DAY-WEEK SCHEDULING CAPABILITIES.
- OCCUPIED MODE COOLING; OUTSIDE AIR DAMPER SHALL OPEN, WHEN THE SPACE TEMPERATURE RISES ABOVE THE SETPOINT THE COMPRESSOR/S SHALL CYCLE TO MAINTAIN ROOM TEMPERATURE.
- OCCUPIED MODE HEATING; OUTSIDE AIR DAMPER SHALL OPEN, WHEN THE SPACE TEMPERATURE FALLS BELOW THE SETPOINT THE ELECTRIC HEAT SHALL ENERGIZE TO MAINTAIN ROOM TEMPERATURE.
- UNOCCUPIED MODE; UNIT SHALL DE-ENERGIZE AND OUTSIDE AIR DAMPER SHALL CLOSE.
- THE SYSTEM SHALL IMPOSE A 30 SECOND TIME DELAY TO RESTART THE SUPPLY FAN, COMPRESSORS, AND CONDENSER FANS AFTER SYSTEM SHUT DOWN.

### FAN SCHEDULE

PLAN MARK	BASIS OF DESIGN	TYPE	CFM	STATIC PRESS. IN. WG.	FAN RPM	MOTOR		VOLT/PHASE	DRIVE TYPE	INTERLOCK
						RPM	HP			
EF-1,2,3	AM. COOLAIR	CEIL.	70	0.125	-	-	48W	-	-	SWITCH

NOTES:  
1. PROVIDE 6" ROUND SHEET-METAL EXHAUST DUCT TO NEW SOFFIT VENT.  
2. PROVIDE BACK-DRAFT DAMPER IF NOT INTEGRAL WITH FAN.



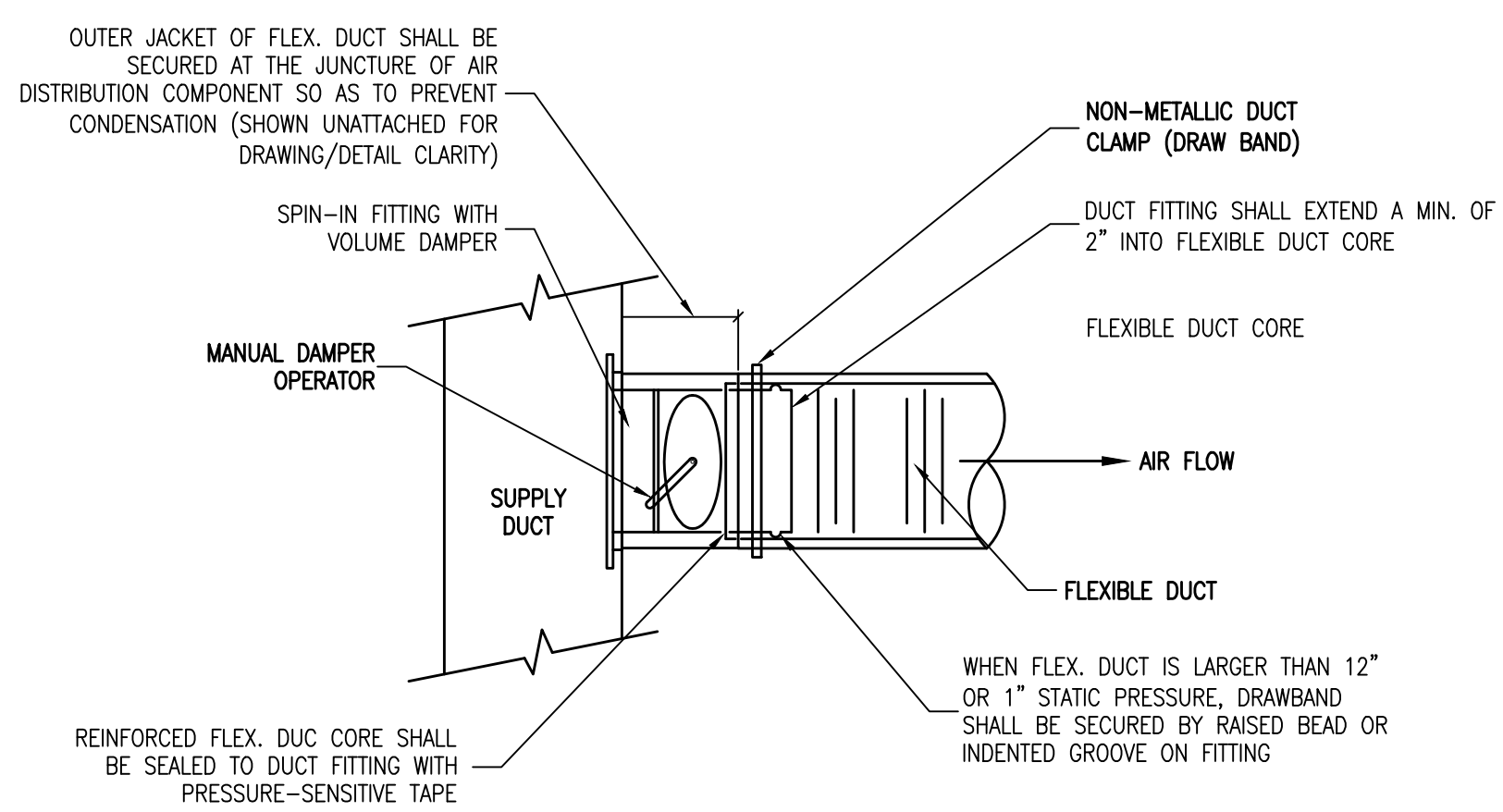
**FLOOR PLAN - MECHANICAL**  
SCALE: 1/4" = 1'-0"  
NORTH

### DIFFUSER SCHEDULE

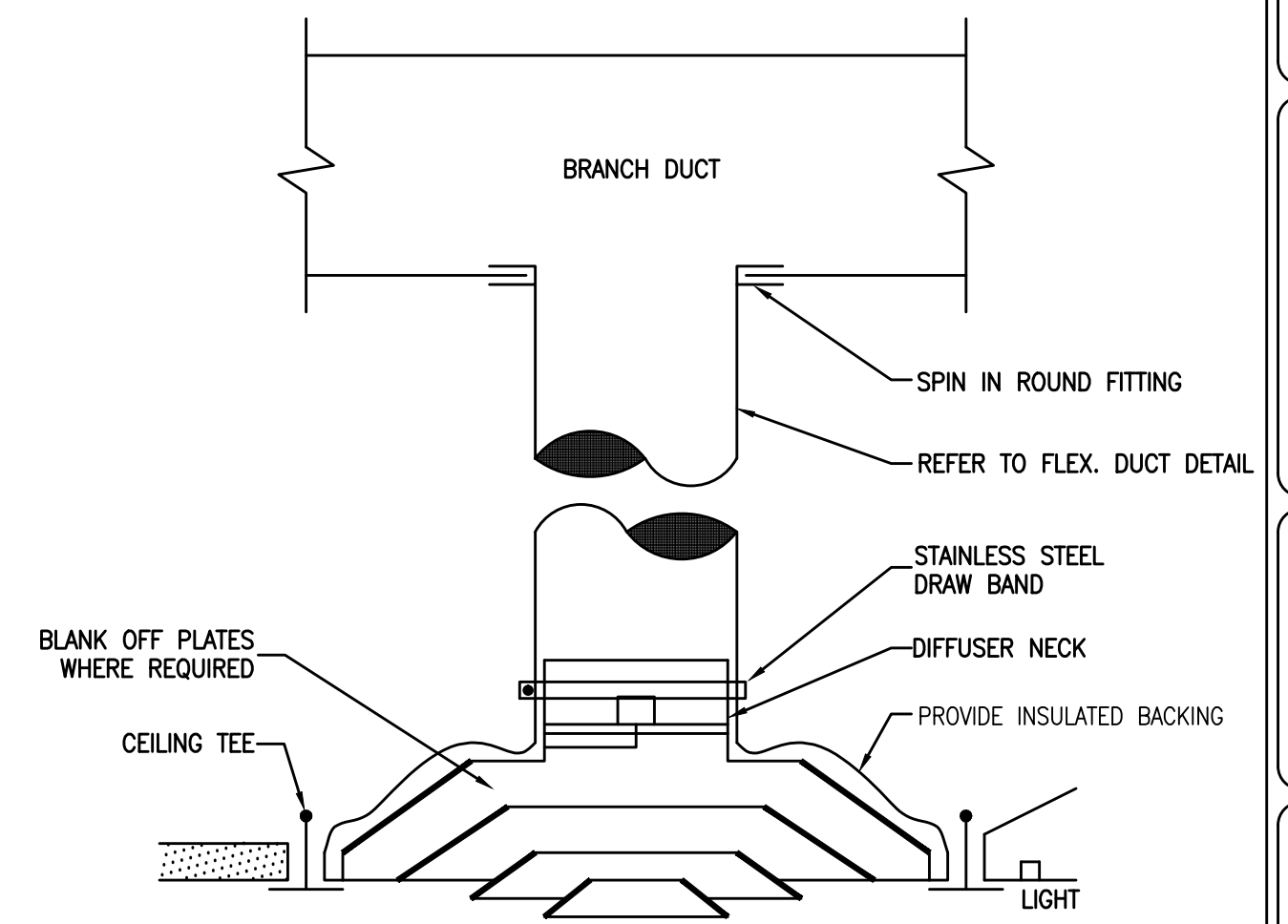
TYPE	SERVICE	CFM RANGE		MODULE SIZE	NECK	MODEL
		MIN	MAX			
A	SUPPLY-CEILING	0	100	24x24	6"	TITUS - OMNI
		101	200	24x24	8"	TITUS - OMNI
		201	325	24x24	10"	TITUS - OMNI
B	RETURN/EXHAUST CEILING	0	150	24x24	6"	TITUS 50F
		151	255	24x24	8"	TITUS 50F
		256	420	24x24	10"	TITUS 50F
C	SUPPLY - CEILING	0	60	12x12	4"	TITUS - OMNI
		61	100	12x12	6"	TITUS - OMNI

NOTES:  
1. DIFFUSER RUNOUT SIZE SHALL BE DIFFUSER NECK SIZE, UNLESS OTHERWISE NOTED ON DRAWINGS.  
2. PROVIDE OPTIONAL MOLDED INSULATION BLANKET R-6 FOR SUPPLY AND RETURN DIFFUSERS.

- ### KEYNOTES
- 6" UP TO ROOF INTAKE VENT, PROVIDE BALANCING DAMPER
  - PROVIDE NEW EXHAUST FAN AND SOFFIT VENT, CONTROL VIA OCC SENSOR SWITCH
  - PROVIDE NEW PROGRAMMABLE THERMOSTAT



**TYPICAL FLEXIBLE DUCT CONNECTION**  
NOT TO SCALE



**DIFFUSER MOUNTING DETAIL**  
NOT TO SCALE

### REVISIONS

DATE	JOB NUMBER	SCALE
04/30/2019	1924	AS NOTED
		DRAWING NUMBER
		<b>M-1</b>

EXISTING PANEL A		208/120 VOLTS, 3 $\phi$		4 WIRE		NEMA 1		NEMA 3R		42,000 A SYM. SHORT CIRCUIT CURRENT RATING @ 240V, 3 $\phi$	
LOCATION: EXIST. BREAK ROOM		200 AMPS		MAIN BREAKER		MAIN LUGS ONLY					
FED FROM: EXIST. METER CENTER		FLUSH		SURFACE MOUNTED		TOP FED		BOTT. FED			
CKT	DESCRIPTION OF LOAD	TRIP	8A	KVA	#5	#6	TRIP	DESCRIPTION OF LOAD	CKT		
1	EXIST AHU-1	4	60	5.5	2.3	5.5	30	WATER HEATER	2		
3									4		
5	EXIST AHU-2	4	60	5.5	2.2	5.5	60	EXIST HP-1	6		
7									8		
9	RECEPTACLES	3	20	5.5	5.0	5.0	60	EXIST HP-2	10		
11	QUAD RECEPTACLE PHONE BOARD	3	20	1.1	0.4	5.0			12		
13	RECEPTACLES	3	20	1.1	0.8	5.0			14		
15	RECEPTACLES	3	20	1.4	1.1	5.0			16		
17	RECEPTACLES	3	20	1.4	1.1	5.0			18		
19	RECEPTACLES	3	20	1.3	0.8	5.0			20		
21	RECEPTACLE BREAK ROOM REFRIGERATOR	3	20	1.3	1.0	5.0			22		
23	RECEPTACLES	3	20	1.4	1.6	5.0			24		
25	RECEPTACLES	3	20	1.4	1.3	5.0			26		
27	SPARE	20							28		
29	SPARE	20							30		
31	SPARE	20							32		
33	SPARE	20							34		
35	SPARE	20							36		
37	SPARE	20							38		
39	SPARE	20							40		
41	SPARE	20							42		
			25.4	21.2	20.3	TOTAL CONNECTED KVA: 66.9 (186A)					

**PANEL SCHEDULE NOTES:**

- PROVIDE UPDATED TYPEWRITTEN OR COMPUTER PRINTED PANEL DIRECTORY INSIDE PANEL DOOR.
- PROVIDE NEW BREAKER AS INDICATED. ALL NEW BREAKERS SHALL MATCH EXISTING PANEL AND BREAKER TYPES.
- RE-USE EXISTING BREAKER, PROVIDE NEW CIRCUIT WIRING AND CONDUIT.
- EXISTING BREAKER, WIRING, AND CONDUIT TO REMAIN.

**LOAD CALCULATION**

Commercial	X	Metered Main	X	Number of Meters	1	
Overhead		Underground	X	Underground Up Pole		
Lighting @ 125%					3,250 VA	
Receptacle Load @ ((100%KVA - 10KVA)*.5) + 10KVA					11,850 VA	
HVAC & Misc Load @ 100%					46,500 VA	
					Total	61,600 VA
Voltage	208	Phase	3		Total	171 Amps

**LABEL REQUIREMENTS**

- PER NEC 110.24, SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED WITH THE MAXIMUM FAULT CURRENT AVAILABLE. SEE FAULT CURRENT CALC AND PANEL SCHEDULES.
- PER NEC 110.22, EACH DISCONNECTING MEANS SHALL BE LEGIBLY MARKED TO IDENTIFY ITS PURPOSE.

**GENERAL ELECTRICAL NOTES & SPECIFICATIONS**

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT ADOPTED NATIONAL ELECTRIC CODE (NEC) AND LOCAL CODES APPLICABLE TO THIS TYPE OF INSTALLATION.
- ALL WIRING TO BE THIN SOLID COPPER. CONDUIT SHALL BE ELECTRICAL METALLIC TUBING (EMT), RIGID STEEL (1/2" MINIMUM), OR MC CABLE WHERE ALLOWED BY CODE. WHERE MC CABLE IS USED, PROPER SECUREMENT AND SUPPORT (AT INTERVALS NOT EXCEEDING 6 FEET) SHALL BE FOLLOWED PER NEC ART. 330.
- NEUTRAL WIRES SHALL BE SIZED IDENTICALLY WITH PHASE CONDUCTORS, UNLESS OTHERWISE IDENTIFIED IN THIS PLAN.
- ALL CONDUCTORS SHALL BE #12 AWG UNLESS OTHERWISE INDICATED IN THIS DRAWING OR PANEL SCHEDULES.
- ALL LIGHTING AND RECEPTACLE CIRCUITS SHALL BE RUN WITH A #12 GREEN WIRE UNLESS OTHERWISE INDICATED. ALL OTHER BRANCH CIRCUITS SHALL INCLUDE A GREEN GROUND WIRE SIZED AS SHOWN IN THIS DRAWING.
- EQUIPMENT AND LIGHTING SHALL NOT EXCEED THE POWER REQUIREMENTS SPECIFIED IN THE EQUIPMENT AND LIGHTING SCHEDULE.
- MOUNT LIGHTING SWITCHES 48" AFF. MOUNT RECEPTACLES MINIMUM 18" AFF. UNLESS OTHERWISE INDICATED. LIGHTING SWITCHES AND RECEPTACLES MAY BE FIELD LOCATED TO ACCOMMODATE SERVICE TO DEDICATED EQUIPMENT, AS LONG AS THEY ARE INSTALLED A MINIMUM OF 18" AFF.
- LOCATIONS OF RECEPTACLES FOR PLUG-IN EQUIPMENT AND FEED FOR DIRECT-CONNECT EQUIPMENT ARE APPROXIMATE AND SHALL BE APPROVED PRIOR TO FINAL INSTALLATION. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO THE OEM SPECIFICATION. COORDINATE SPECIAL RECEPTACLES WITH THOSE IDENTIFIED IN OEM SPECIFICATIONS.
- EXTERIOR A/C MAINTENANCE RECEPTACLES SHALL BE INSTALLED USING RIGID NEMA 3R RATED CONDUIT AND RECEPTACLE BOX.
- INSTALL NEW SERVICE AND FEEDS AS IDENTIFIED IN THE POWER RISER DIAGRAM.
- REFER TO MECHANICAL PLAN FOR MODEL, TYPE OF MECHANICAL EQUIPMENT.
- NO MORE THAN (3) CURRENT CARRYING CONDUCTORS PER HOMERUN.
- THESE DOCUMENTS PERTAIN TO ELECTRICAL ONLY. THIS DESIGN SHALL NOT BE USED TO QUALIFY OTHER DISCIPLINES NOR SHALL IT BE RESPONSIBLE FOR OTHER DISCIPLINE REQUIREMENTS OR PROPERTY ASSETS NOT A PART OF THE ELECTRICAL CONTRACT.
- WIRE ALL EMERGENCY LIGHTS TO THE HOT SIDE OF THE SWITCH THAT OPERATES THE LIGHT FIXTURES THEY COVER.
- PROVIDE PLENUM RATED CABLING/SHEATHING IN AREAS WITH RETURN AIR PLENUM. COORDINATE WITH MECHANICAL CONTRACTOR.
- A LICENSED ELECTRICAL CONTRACTOR SHALL BE PRESENT AT ALL TIMES.

**ELECTRICAL SYMBOL LEGEND**

	2 x 4 FLUORESCENT LUMINAIRE		EXPOSED OR CONCEALED CONDUIT
	EMERGENCY 2 x 4 FLUORESCENT LUMINAIRE		UNDERFLOOR/UNDERGROUND CONDUIT
	EMERGENCY WALL MOUNTED FLUORESCENT LUMINAIRE		EMERGENCY OR LOW VOLTAGE CONDUIT
	FLUORESCENT STRIP LUMINAIRE		PANEL BOARD (SEE SCHEDULE FOR CONFIGURATION)
	EMERGENCY FLUORESCENT STRIP LUMINAIRE		EXHAUST FAN (SEE MECHANICAL PLANS)
	RECESSED LUMINAIRE		FIRE ALARM CONTROL PANEL
	EMERGENCY RECESSED LUMINAIRE		FIRE ALARM ANNUNCIATOR, FLUSH MOUNT
	EMERGENCY BATTERY PACK WITH TWO INTEGRAL LIGHTS		FIRE ALARM PULL STATION
	EXIT / EGRESS SIGN LUMINAIRE		FIRE ALARM AUDIO/VISUAL DEVICE
	BUILDING MOUNTED WALL PACK		FIRE ALARM STROBE DEVICE
	SINGLE POLE SINGLE THROW SWITCH (SPST)		SMOKE DETECTOR
	THREE WAY SPST SWITCH		DUCT SMOKE DETECTOR
	WALL MOUNTED OCCUPANCY DETECTOR / WALL SWITCH COOPER (OR APPROVED EQUAL)		HEAT DETECTOR
	MOMENTARY OVERRIDE SWITCH - COOPER #GMDS		TAMPER SWITCH - ELECTRICALLY SUPERVISED
	CEILING MOUNTED OCCUPANCY DETECTOR COOPER #QAC-D1-2000-R		FLOW SWITCH - ELECTRICALLY SUPERVISED
	SWITCH PACK FOR OCCUPANCY DETECTOR COOPER #SP20-MV		FIRE ALARM CONTROL RELAY
	DUPLEX RECEPTACLE WALL MOUNTED @ 18" AFF, UON		ACCESS CONTROL (J-BOX AND 3/4" C. STUBBED ABOVE CEIL)
	DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER WALL MOUNTED @ 18" AFF, UON		DOOR CONTACTOR
	DUPLEX RECEPTACLE - CEILING MOUNTED		DOOR POSITION SWITCH
	EXTERIOR MOUNTED DUPLEX RECEPTACLE WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER AND WEATHERPROOF IN-USE COVER		ELECTRIC LATCH
	QUADRUPLEX RECEPTACLE WALL MOUNTED @ 18" AFF, UON		MAGNETIC LOCK
	FLUSH MOUNTED 3-GANG FLOOR BOX WITH BLACK COVER - PROVIDE 2 DUPLEX RECEPTACLES AND 1 DATA		PUSH BUTTON FOR MAGNETIC LOCK
	FLUSH MOUNTED FLOOR OUTLET WITH IN-USE COVER DUPLEX RECEPTACLE		SECURITY SYSTEM MOTION DETECTOR
	NEMA TYPE RECEPTACLE - COORDINATE WITH OWNER'S EQUIPMENT, VERIFY ALL RATINGS WITH EQUIPMENT NAMEPLATE		MOTION DETECTOR FOR DOOR RELEASE
	JUNCTION BOX (SIZE PER N.E.C.)		CCTV CAMERA, CEILING OR WALL MOUNTED
	LOW VOLTAGE TRANSFORMER		
	NON-FUSED DISCONNECT SWITCH (FRAME SIZE / # POLES / ENCLOSURE)		
	FUSED DISCONNECT SWITCH (FRAME SIZE / # POLES / FUSE SIZE / ENCLOSURE)		
	TELEPHONE BACKBOARD (SEE TELEPHONE RISER DIAGRAM)		
	DOUBLE DATA DROP OUTLET - WALL MOUNTED @ 18" AFF, PROVIDE OUTLET BOX AND 3/4" EMT TO 6" ABOVE CEILING		
	QUAD DATA DROP OUTLET - WALL MOUNTED @ 18" AFF, PROVIDE OUTLET BOX AND 3/4" EMT TO 6" ABOVE CEILING		
	WIRELESS ACCESS POINTS (WAPs) - POWER OVER ETHERNET (POE) ABOVE CEILING - FIELD COORDINATE ALL REQUIREMENTS WITH OWNER'S DATA AND PHONE VENDOR		
	CABLE DROP OUTLET - WALL MOUNTED @ 18" AFF,		

**DESIGN DEVELOPMENT**  
Architecture Incorporated

**COASTAL MEDICAL**  
421 KINGSLEY AVENUE  
ORANGE PARK, FL  
**SCHEDULE & DETAILS - ELECTRICAL**

**REVISIONS**

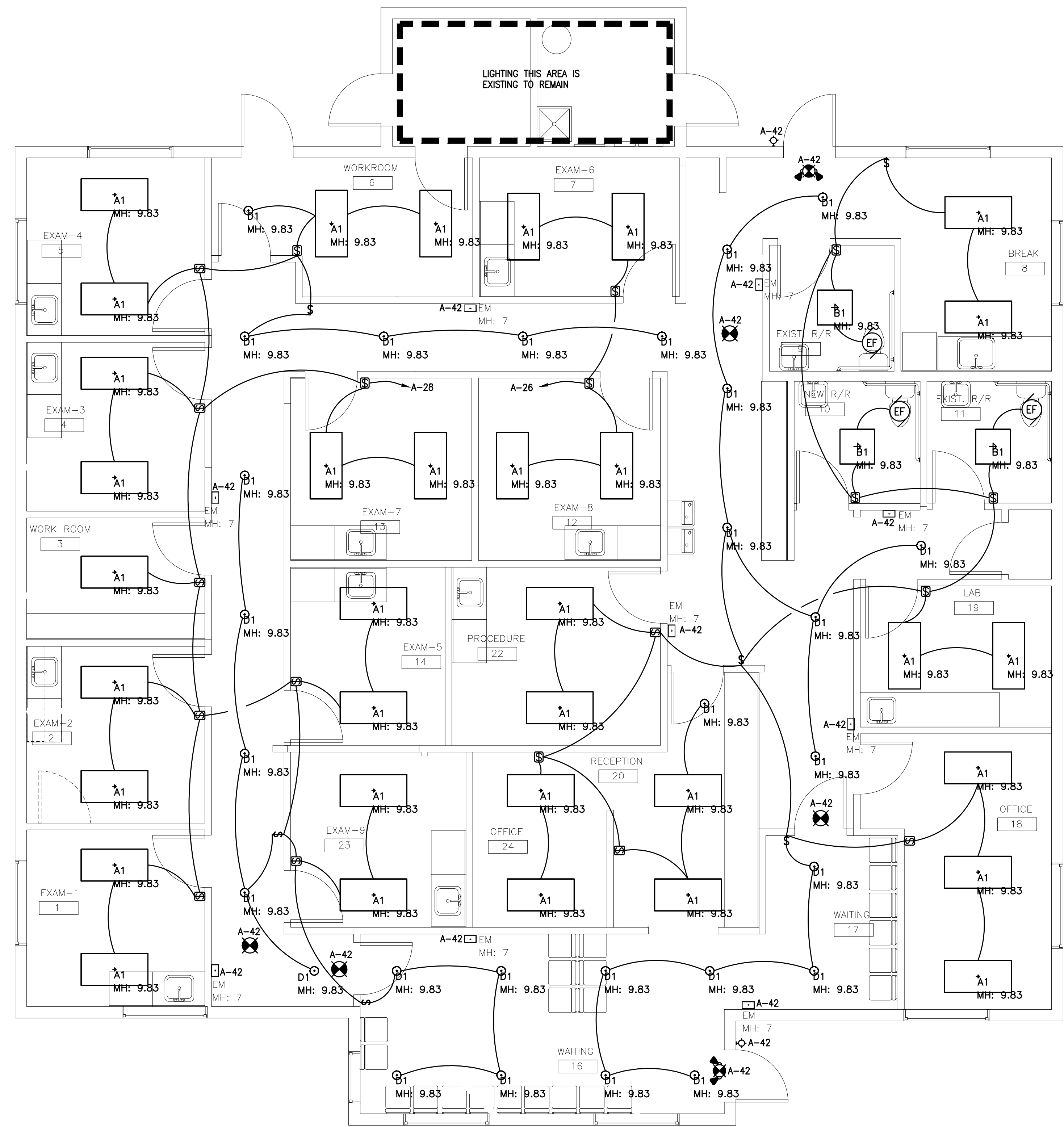
DATE  
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JOB NUMBER  
1924

SCALE  
AS NOTED

DRAWING NUMBER  
**E-0**

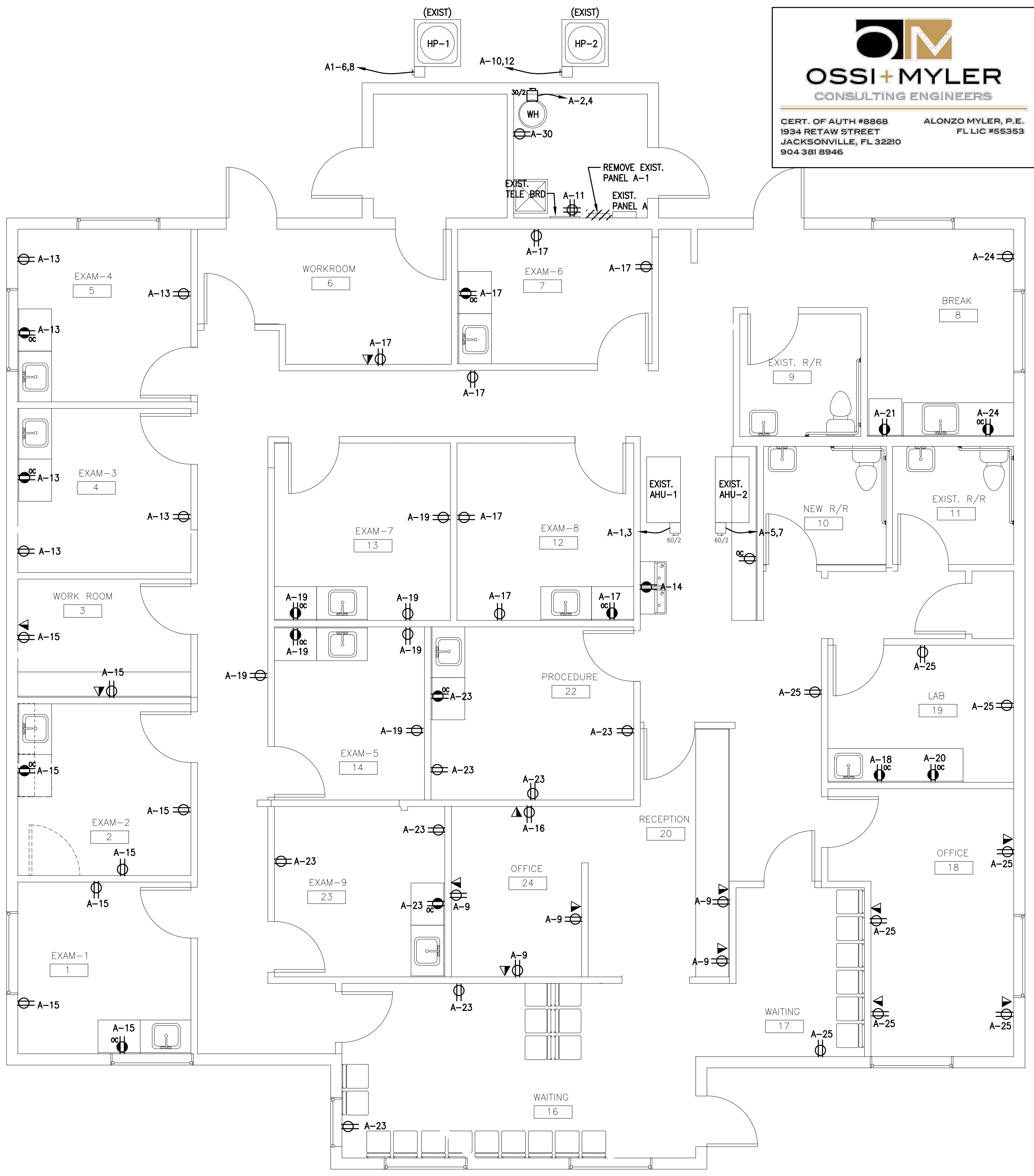




**FLOOR PLAN - LIGHTING**  
SCALE: 1/4" = 1'-0"  
NORTH

Luminaire Schedule		PROVIDE AS SPECIFIED - NO SUBSTITUTIONS				
Symbol	Qty	Label	Description	LLF	Lum. Watts	Lum. Lumens
⬢	34	A1	EATON: 24RTC48-UNV-L835-CD1-U	0.950	36,805	4797
⬢	3	B1	EATON: 22RTC48-UNV-L835-CD1-U	0.950	36,345	4671
⊙	28	D1	EATON: RL560WH12935-H750T	0.950	17,6	1280
⊙	9	EM	EMERGI-LITE: EL-2LED	1.000	3.48	223
⊙	-	-	EATON: ES SERIES, DIRECTIONAL	-	3.6	-
⊙	-	-	EMERGI-LITE: ELXN400-R-2LED	-	4	-
⊙	-	-	BEGHELLI MEZ	-	13.0	74

- LUMINAIRE SCHEDULE NOTES:**
- ALL EMERGENCY EGRESS LUMINAIRES REQUIRE AN UNSWITCHED CONNECTION. WHERE EMERGENCY EGRESS DEVICES ARE CONTAINED WITHIN NORMAL USE LUMINAIRES, PROVIDE LOCAL SWITCHING AS INDICATED ON DRAWINGS AND AN ADDITIONAL UNSWITCHED CONNECTION TO EMERGENCY FIXTURE.
  - FOR PRICING AND/OR ADDITIONAL INFO PLEASE CONTACT ARDD & WINTER, TIM SOHL 904-345-5809.



**FLOOR PLAN - POWER & SYSTEMS**  
SCALE: 1/4" = 1'-0"  
NORTH

REVISIONS

DATE  
04/30/2019

JOB NUMBER  
1924

SCALE  
AS NOTED

DRAWING NUMBER  
**E-1**