

ABBREVIATIONS

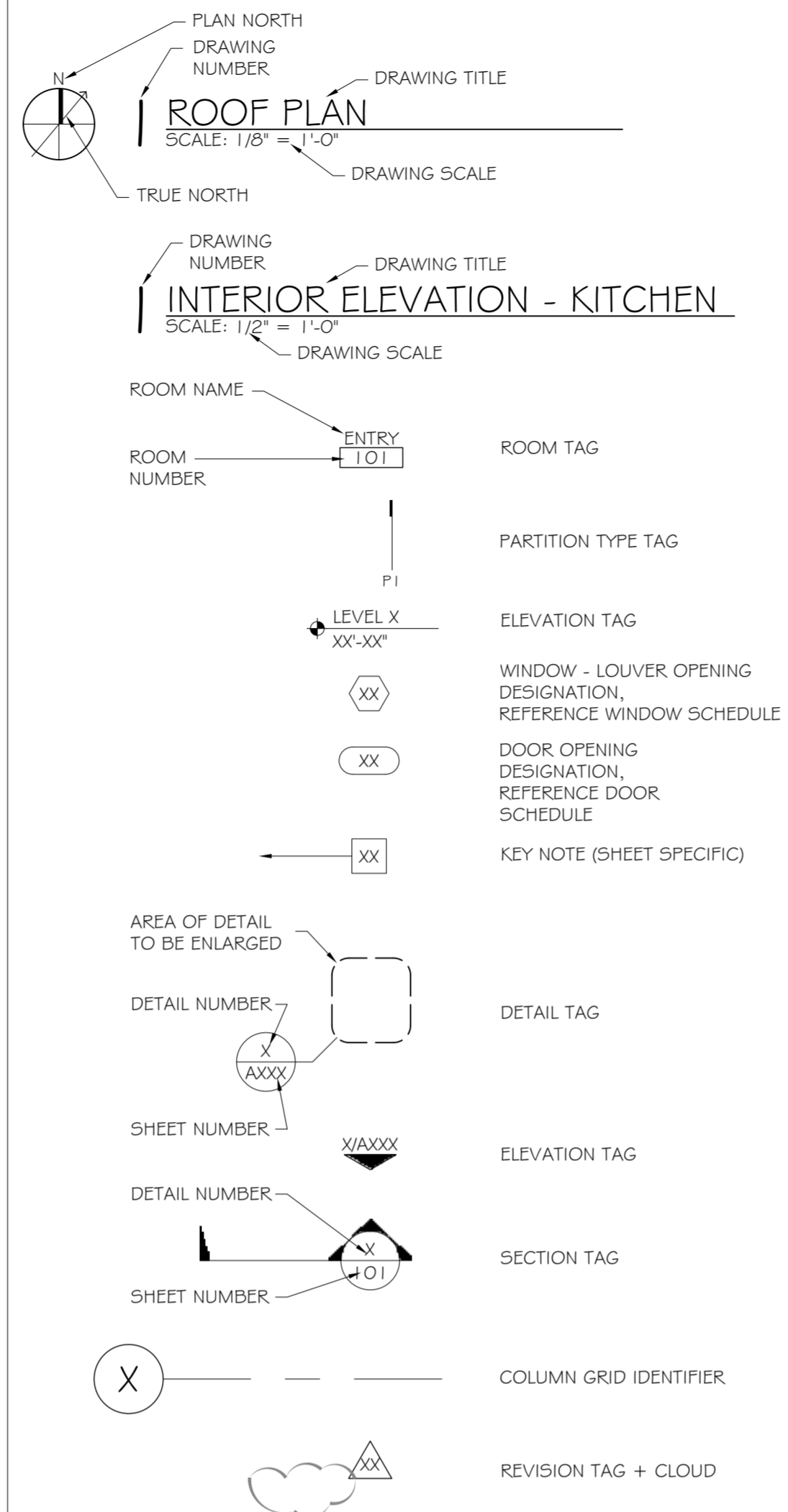
SYMBOLS USED AS ABBREVIATIONS:

Table with symbols and abbreviations: ANGLE, CENTERLINE, CHANNEL, PENNY, PERPENDICULAR, PLATE, ROUND.

ABBREVIATIONS:

Main table of abbreviations including: FRESH AIR, AIR CONDITIONING, BRICK COURSE, BOARD, BELOW, BUMPER GUARD, BED JOINT, BITUMINOUS, BUILDING, BLOCK, BLOCKING, BENCH MARK, BY OTHERS, BOTTOM, BEARING, BRIDGE/BRIDGING, BOTH SIDES, BOTH WAYS, CABINET, CLOSED CIRCUIT TELEVISION, CEMENT/CEMENTITIOUS, CERAMIC, COUNTERFLASHING, CORNER GUARD, CHALKBOARD, CONTROL JOINT, CAULKING, CEILING, CLEAR, CONTRACT LIMIT LINE, CONCRETE MASONRY UNIT, COUNTER, COLUMN, COMBINATION, COMPOSITION, CONCRETE, CONSTRUCTION, CONTINUOUS, CONTRACTOR, CORRUGATED, CARPET(ED), COLD ROLLED CHANNEL, COURSE(S), COUNTERSINK, CASEWORK, CERAMIC TILE, CENTER, CURTAIN TRACK, COUNTERSINK SCREW, CUBIC CURTAIN, DRAIN, DEMOLISH, DEPRESSED, DIAGONAL, DIAMETER, DIMENSION, DISPENSER, DIVISION, DAMPER, DOWNSPOUT, DOVETAIL ANCHOR, DETAIL, DOVETAIL ANCHOR SLOT, DISHWASHER, DRAWER, DRAWING, EAST, EACH, EXPANSION BOLT, EXPANSION JOINT, ELEVATION, ELECTRICAL, ELEVATOR, EMERGENCY, ENCLOSURE, ELECTRICAL OUTLET, ELECTRICAL PANELBOARD, EQUAL, EQUIPMENT, EXISTING TO REMAIN, ELECTRIC WATER COOLER, ELECTRIC WATER HEATER, EXHAUST.

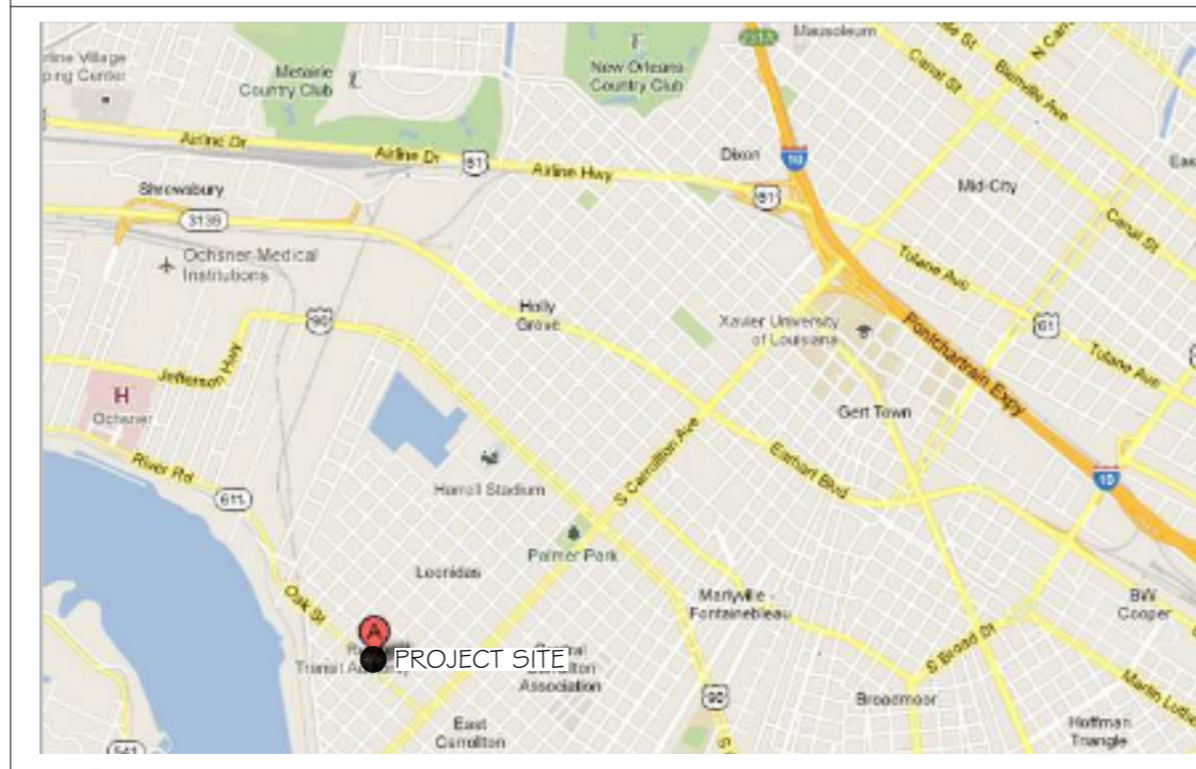
SYMBOLS



MATL. DESIGNATIONS

Table of material designations: CONCRETE, BRICK MASONRY, WOOD, FIRE TREATED WOOD (ROUGH), CONTINUOUS, FIRE TREATED WOOD SHIM, PLYWOOD, GYPSUM BOARD, PLASTER, GROUT, MIRROR IN ELEVATION, METAL, RIGID INSULATION, BATT INSULATION, TERRAZZO, COMPACT FILL, MARBLE, CONCRETE MASONRY UNITS.

VICINITY MAP



PROJECT STATISTICS

Table with project statistics: SQUARE FOOTAGE, ASSEMBLY OCCUPANCY, BUSINESS OCCUPANCY, RESIDENTIAL OCCUPANCY, STORAGE OCCUPANCY, TOTAL ENCLOSED SPACE, PROJECT LOCATION, OWNER.

GENERAL NOTES

- 1. ALL MATERIALS AND WORK... 2. CONTRACTOR SHALL PROVIDE ALL PUBLIC PROTECTIONS... 3. THE DRAWINGS, SPECIFICATIONS AND ANY SUBSEQUENTLY ISSUED ADDENDA... 4. DO NOT SCALE DRAWINGS... 5. VERIFY LOCATION OF ALL EQUIPMENT... 6. TRASH SHALL BE REMOVED FROM THE SITE... 7. THE GENERAL CONTRACTOR SHALL VERIFY EXISTING CONDITIONS... 8. CONTRACTOR VEHICLES AND EQUIPMENT... 9. WORK INDICATED AS 'NOT IN CONTRACT'... 10. NAMING A CERTAIN BRAND, MAKE OR MANUFACTURER IS TO DESIGNATE THE GENERAL STYLE, TYPE, CHARACTER AND QUALITY STANDARD... 11. ALL MATERIALS/EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

SHEET INDEX

Table with sheet index: SHEET NUMBER, SHEET TITLE, G1 GENERAL INFORMATION SHEET, G2 LIFE-SAFETY PLANS, A1 FIRST FLOOR PLAN, A2 SECOND FLOOR PLAN, A3 REFLECTED CEILING PLAN - 1st FLOOR, A4 REFLECTED CEILING PLAN - 2nd FLOOR, A5 SCHEDULES, DOOR TYPES, PARTITION TYPES, A6 STAIR PLANS AND DETAILS, A7 RAMP PLANS & DETAILS, INT. ELEV., M1 HVAC PLAN - FIRST FLOOR, E1 POWER PLAN, E2 LIGHTING PLAN, P1 POTABLE WATER PLAN, P2 SANITARY SEWER PLAN.

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BIKRAM YOGA STUDIO, 8338 OAK STREET, NEW ORLEANS, LA 70118. JOB No: 2175, DATE: 6-7-2013, DRAWN BY: KJK, CHECKED BY: KJK.

Table with columns: #, DESCRIPTION, DATE.

GENERAL INFORMATION SHEET

SHEET No: 1 of 14

G1

BUILDING CODE INFORMATION

BUILDING CODE
IBC (INTERNATIONAL BUILDING CODE) 2009

OCCUPANCY TYPE OF GROUP(S) (IBC 2009 CHAPTER 3):
RESIDENTIAL (R-1) BUSINESS STORAGE - LOW HAZARD (S-2)
ASSEMBLY (LESS CONCENTRATED)

CONSTRUCTION TYPE(S):
VB 10, 1&2 S.F. GROSS

MAXIMUM AREA (S.F.):
RESIDENTIAL (R-1) 7,000 S.F.
BUSINESS 9,000 S.F.
STORAGE (S-2) 13,500 S.F.
ASSEMBLY (A-2) 6,000 S.F.

REQUIRED SEPARATION OF OCCUPANCIES (IBC TABLE 508.2.5):
R-2 & B - 2 HOUR
S-2 & B - 2 HOUR
R-2 & S-2 - 2 HOUR
A-3 & S-2 - 2 HOUR
A-3 & B - 2 HOUR
A-3 & R-2 - 2 HOUR

MAXIMUM AREA OF EXTERIOR WALL OPENINGS:
45%

OCCUPANT LOAD CALCULATIONS BY OCCUPANCY:
RESIDENTIAL (R-2) 200 S.F./OCCUPANT = 12
BUSINESS 100 S.F./OCCUPANT = 28
STORAGE (S-2) 200 S.F./OCCUPANT = 12
ASSEMBLY (A-3) 15 S.F./OCCUPANT = 102
TOTAL = 154

EXIT REQUIREMENTS:
FIRST FLOOR - 2 EXITS
SECOND - 2 EXITS

MAXIMUM EXIT ACCESS TRAVEL DISTANCE (TABLE 1016.1):
B - 200' R-2 - 200' S-2 - 300' A-3 - 200'

MINIMUM CORRIDOR WIDTH (SECTION 1018.1 & SECTION 1005.1):
44"

MAXIMUM DEAD END CORRIDOR (SECTION 1018.4):
20'

MAXIMUM COMMON PATH OF TRAVEL (1014.3):
S-2 - 75' R-2 - 75' A-2 - 75' B - 100'

FIRE RESISTANCE RATING REQUIREMENTS FOR BLDG. ELEMENTS: (TBL 601)
STRUCTURAL FRAME = 0 HRS.
BEARING WALLS (INTERIOR AND EXTERIOR) = 0 HRS.
NON-BEARING WALLS = 0 HRS.
FLOOR CONSTRUCTION = 0 HRS.
ROOF CONSTRUCTION = 0 HRS.

FIRE ALARM SYSTEM REQUIREMENTS: (SEC 907)
THIS BLDG. DOES NOT REQUIRE A FIRE ALARM SYSTEM

FIRE PROTECTION SYSTEM REQUIREMENTS: (SEC 903)
THIS BLDG. DOES NOT REQUIRE A FIRE PROTECTION SYSTEM IN ACCORDANCE WITH SEC 903.2.9

LIFE-SAFETY INFORMATION

LIFE SAFETY CODE:
NFPA 101 LIFE SAFETY CODE 2009

OCCUPANCY:
ASSEMBLY CHAPTER 12 1,541 S.F.
RESIDENTIAL (SINGLE FAMILY) N/A 2,340 S.F.
BUSINESS CHAPTER 38 2,791 S.F.
STORAGE (S-2) CHAPTER 42 2,218 S.F.

REQUIRED SEPARATION:
S/B - 2 HOUR S/R - 2 HOUR B/R - 2 HOUR

CLASSIFICATION OF HAZARD OF CONTENTS:
ORDINARY

CONSTRUCTION TYPE(S) - (CHAPTER 8, TABLE A.8.2.1.2)
V(OO) NON-SPRINKLERED

AREA CALCULATIONS BY OCCUPANCY:
FIRST FLOOR
ASSEMBLY 1,541 S.F.
RESIDENTIAL (SINGLE FAMILY) N/A 126 S.F.
BUSINESS 2,791 S.F.

SECOND FLOOR
STORAGE 2,218 S.F.
RESIDENTIAL (SINGLE FAMILY) N/A 2,388 S.F.

OCCUPANT LOAD CALCULATIONS BY OCCUPANCY:
RESIDENTIAL (SINGLE FAMILY) 200 S.F./OCCUPANT = 6
BUSINESS 100 S.F./OCCUPANT = 28
STORAGE 500 S.F./OCCUPANT = 5
ASSEMBLY (LESS CONCENTRATED) 15 S.F./OCCUPANT = 103
TOTAL = 142

MEANS OF EGRESS:
NUMBER OF EXITS - R-1 B-2 S-1 A-2
MINIMUM EXIT SEPARATION DISTANCE FOR REMOTELY LOCATED EXITS
1/2 DIAGONAL 36'-3" (S) 43'-0" (B) 29'-8" (A)
MAXIMUM DEAD-END CORRIDOR TRAVEL DISTANCE: 20'-0"
MAXIMUM COMMON PATH OF TRAVEL DISTANCE: R - NR, B - 100', A - 75', S - 50'
MAXIMUM TRAVEL DISTANCE TO EXITS: R - NR', B - 200', A - 200', S - 200'
STAIR WIDTH REQUIREMENTS: 36"

HORIZONTAL EXIT:
NONE

EXTINGUISHMENT REQUIREMENTS:
SPRINKLER (NOT REQUIRED)

SUBDIVISION OF BUILDING SPACE:
NONE

DETECTION/ALARM:
NONE

EXIT REQUIREMENTS:
FIRST FLOOR - 2 EXITS
SECOND FLOOR - 2 EXITS

MAXIMUM EXIT ACCESS TRAVEL DISTANCE (TABLE 1016.1):
B - 300' R-2 - 250' S-2 - 250'

MINIMUM CORRIDOR WIDTH (SECTION 1018.1 & SECTION 1005.1):
44"

MAXIMUM DEAD END CORRIDOR (SECTION 1018.4):
50'

MAXIMUM COMMON PATH OF TRAVEL (1014.3):
B & S-2 - 100' R-2 - 125' A - 75'

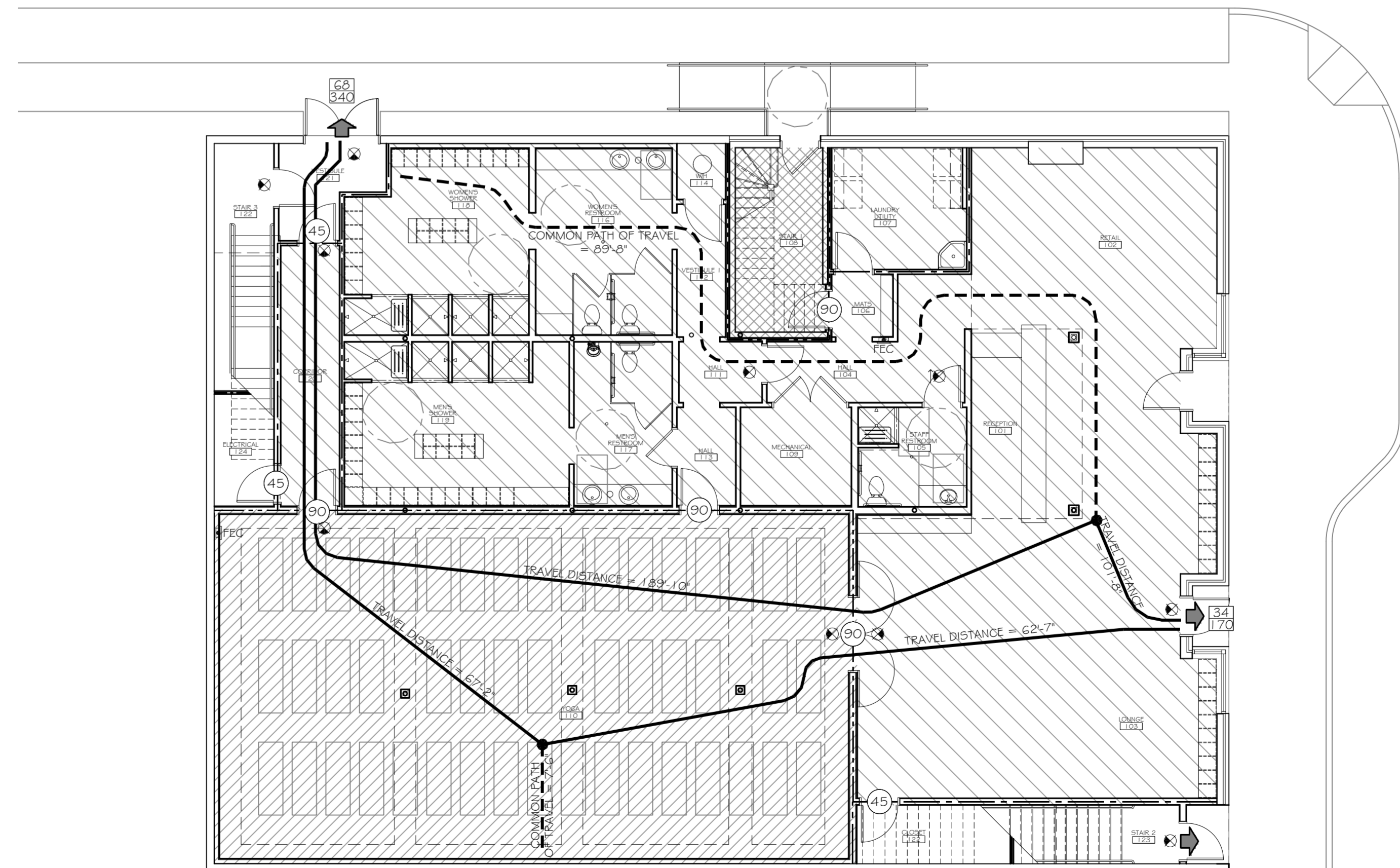
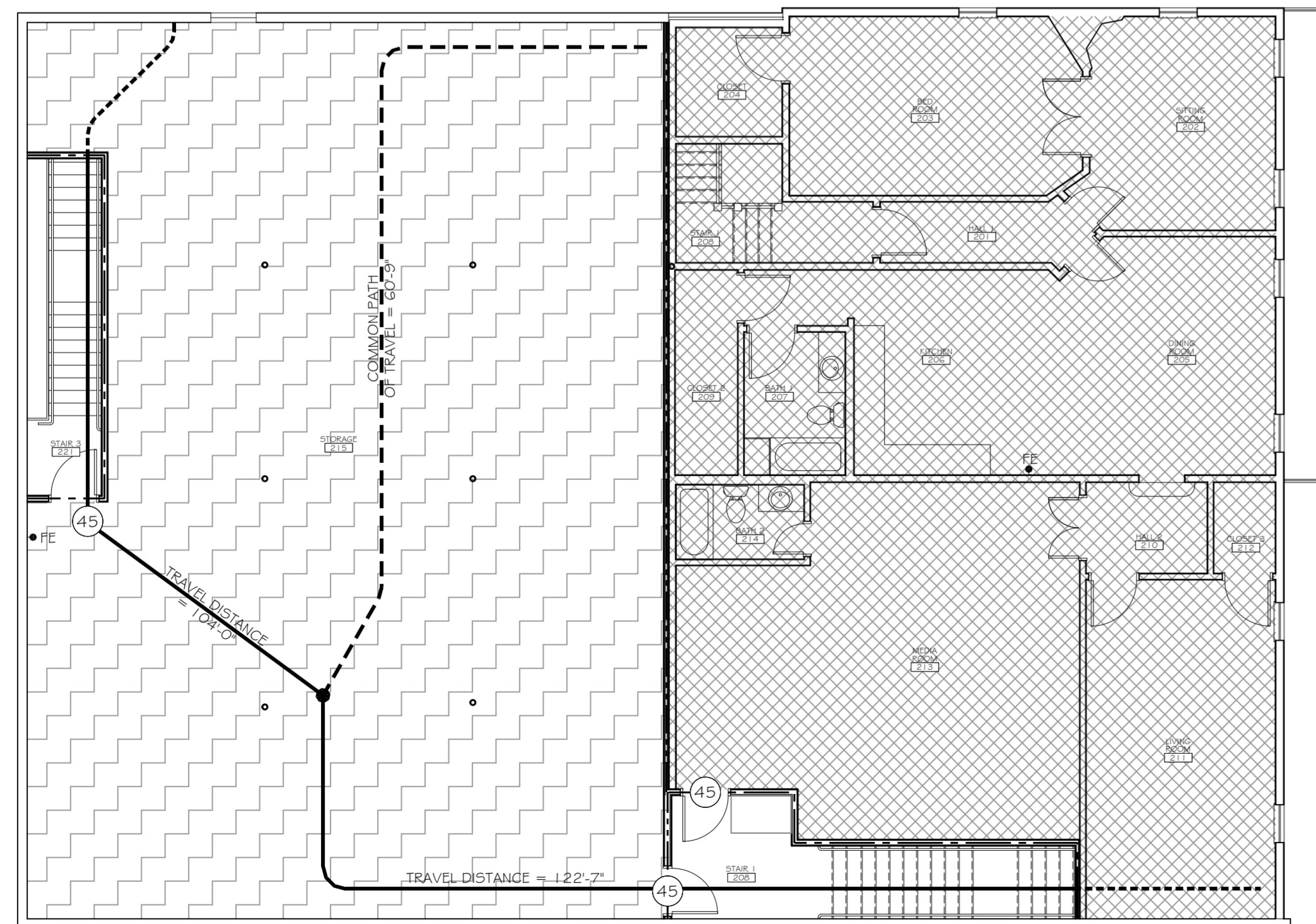
LEGEND

OCCUPANCIES

- RESIDENTIAL
- ASSEMBLY
- BUSINESS
- STORAGE

SYMBOLS

- EXITS
- DOOR FIRE RATING (MINUTES)
- DOOR WIDTH/EGRESS CAPACITY
- EXIT LIGHT
- FIRE EXTINGUISHER CABINET
- FIRE EXTINGUISHER W/ WALL MOUNTED BRACKET
- ONE-HOUR RATED PARTITION
- TWO-HOUR RATED PARTITION
- COMMON PATH OF TRAVEL/TRAVEL DISTANCE
- TRAVEL DISTANCE
- DECISION POINT



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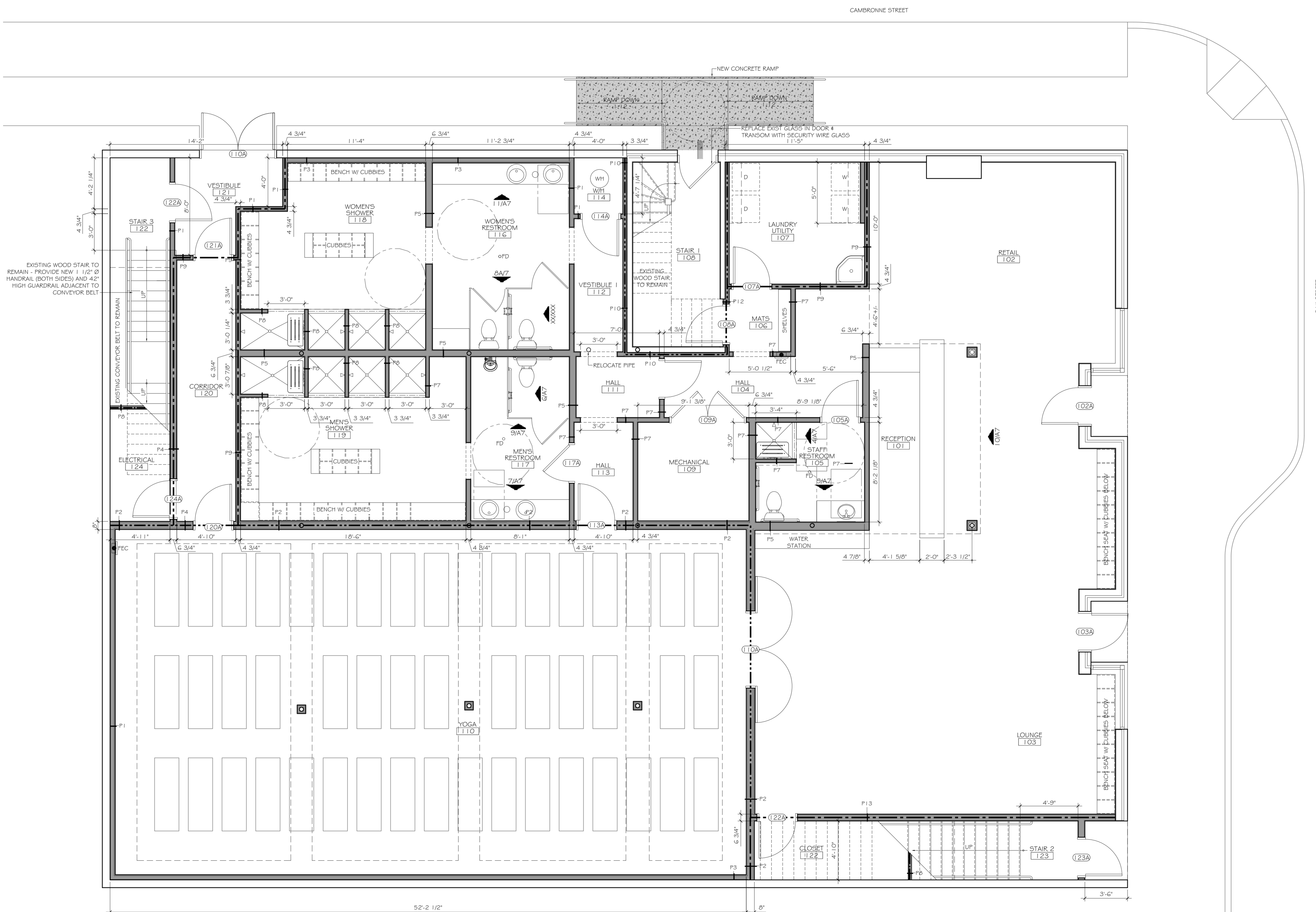
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LIFE-SAFETY PLANS
SHEET No: 2 of 14

G2



EXISTING WOOD STAIR TO REMAIN - PROVIDE NEW 1 1/2" Ø HANDRAIL (BOTH SIDES) AND 42" HIGH GUARDRAIL ADJACENT TO CONVEYOR BELT

52'-2 1/2"

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



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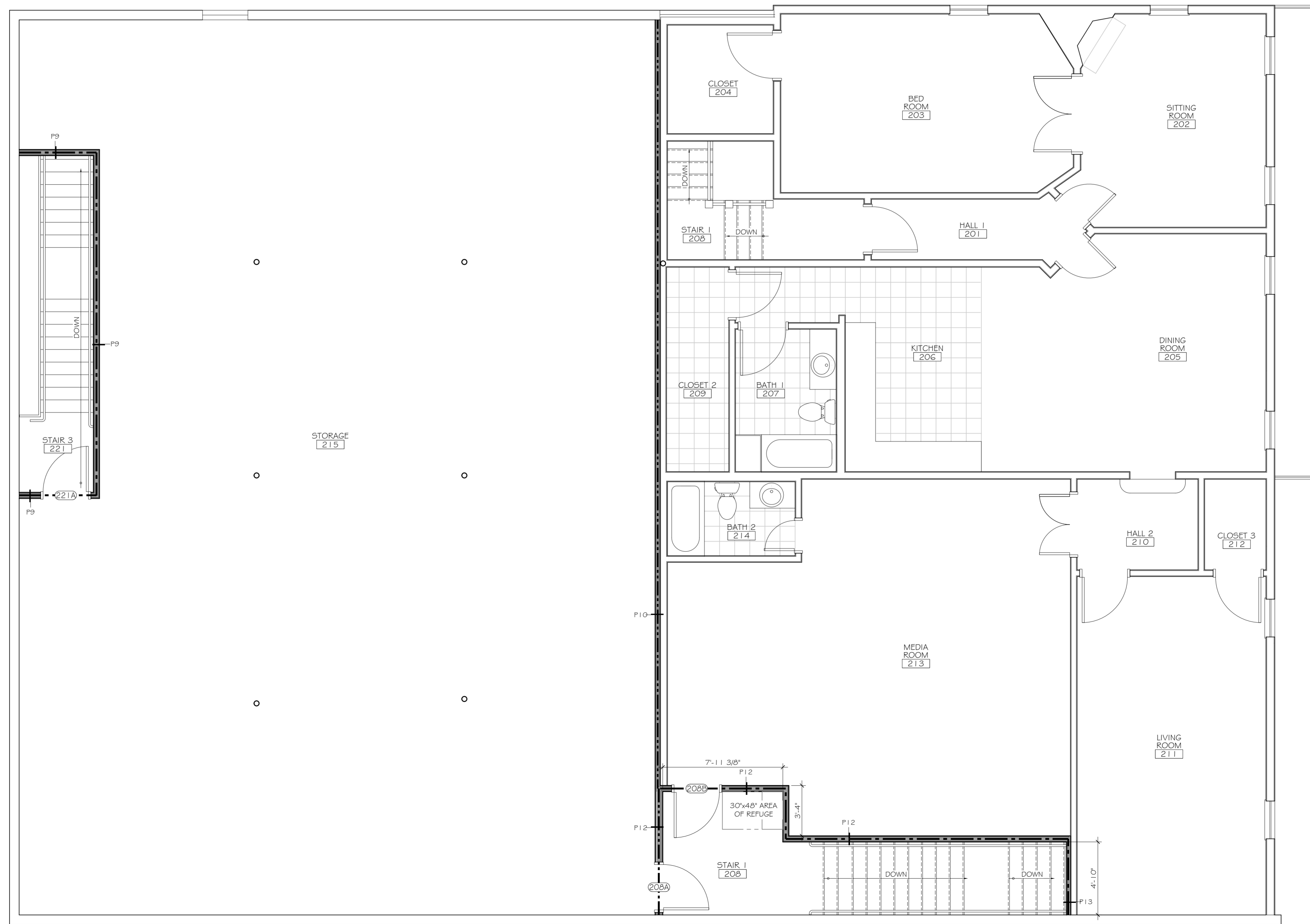
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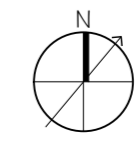
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FIRST FLOOR PLAN

SHEET No: 3 of 14

A1




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

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SECOND FLOOR PLAN
 SHEET No: 4 of 14

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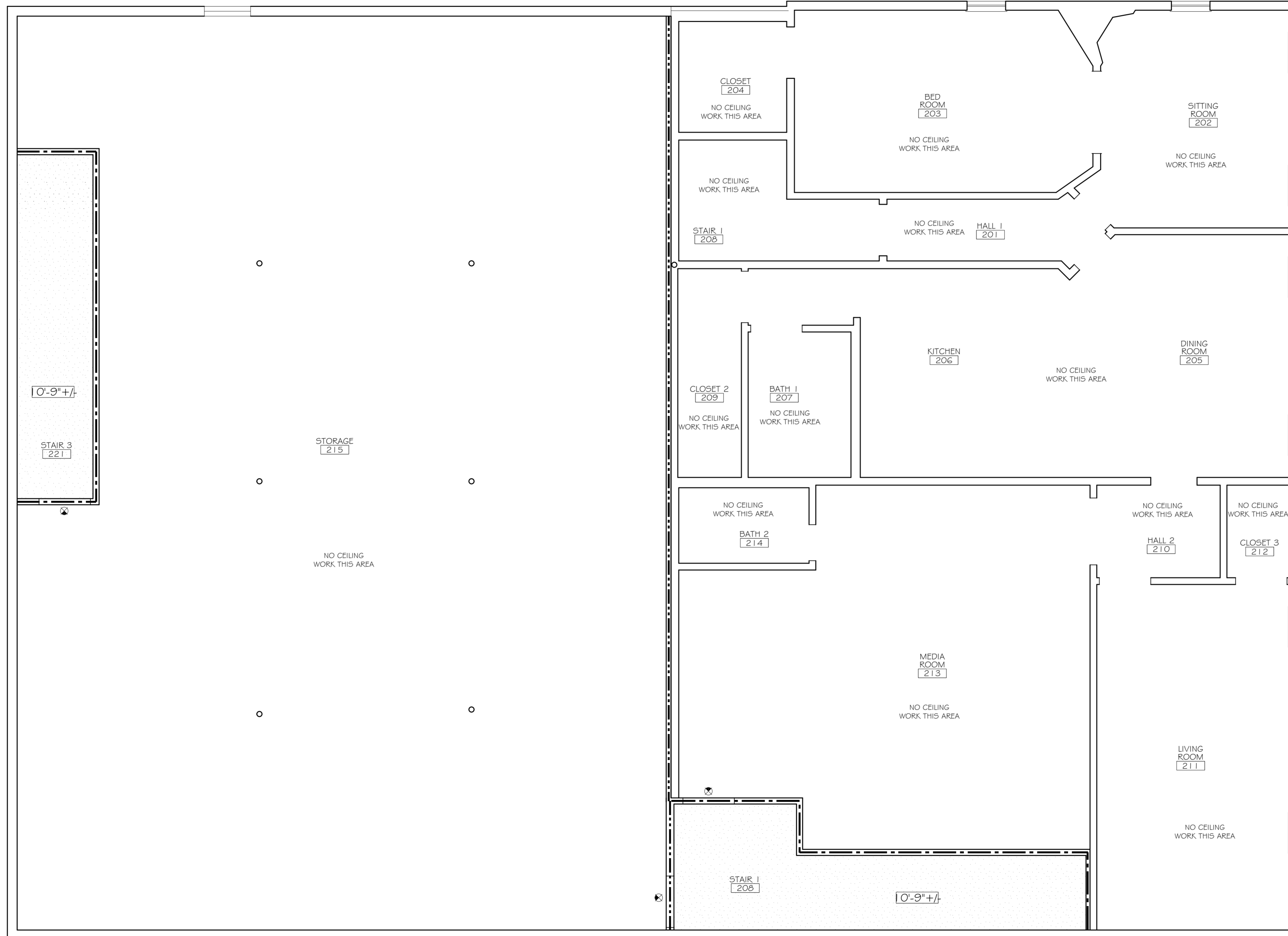
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NOTES

- WHERE RECESSED DOWNLIGHTS ARE LOCATED IN A FIRE-RATED CEILING ASSEMBLY, CREATE A FIRE-RATED POCKET FOR LIGHT FIXTURE, MATCHING THE FIRE-RATING OF THE ASSEMBLY.
- ALL FIRE-RATED CEILING ASSEMBLIES SHALL BE UL DESIGN NO. L556 OR APPROVED EQUIVALENT.
- CEILING SEPARATING FIRST FLOOR FROM SECOND FLOOR, (EXCEPT WHERE CONTAINED WITHIN PROTECTED STAIR WELL) SHALL MAINTAIN A MINIMUM TWO-HOUR RATED SEPARATION.
- PROVIDE A FIRE-RATED CEILING ASSEMBLY EQUIVALENT TO THAT OF THE ADJACENT WALLS WHERE THE FIRE-RATED WALLS DO NOT EXTEND TO BELOW THE ROOF DECK. FIRE-RATED CEILING ASSEMBLY SHALL EXTEND CONTINUOUSLY FROM FIRE-RATED WALL TO FIRE-RATED WALL AND/OR TO EXTERIOR WALL.
- ALL PENETRATIONS TO FIRE-RATED ASSEMBLIES SHALL BE PROTECTED IN SUCH A WAY TO MAINTAIN SPECIFIED FIRE-RATING OF THAT ASSEMBLY.

LEGEND

- RECESSED CAN LIGHT
- DIRECTIONAL RECESSED CAN LIGHT
- ⊗ PENDANT LIGHT
- ⊕ CHANDELIER
- ☐ FANLIGHT
- ⊗ EXIT LIGHT
- 5/8" GYPSUM BOARD CEILING
- CEILING CLOUD WITH FINISHED WOOD PANELS
- ⊗ HVAC SUPPLY REGISTER
- LINEAR FLUORESCENT LIGHT FIXTURE



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REFLECTED CEILING PLAN

SHEET No: 6 of 14

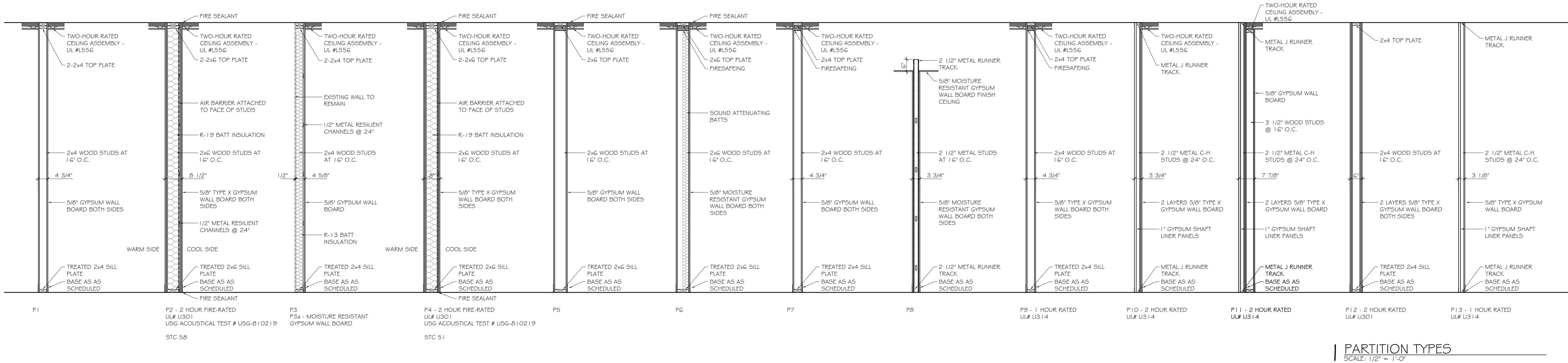
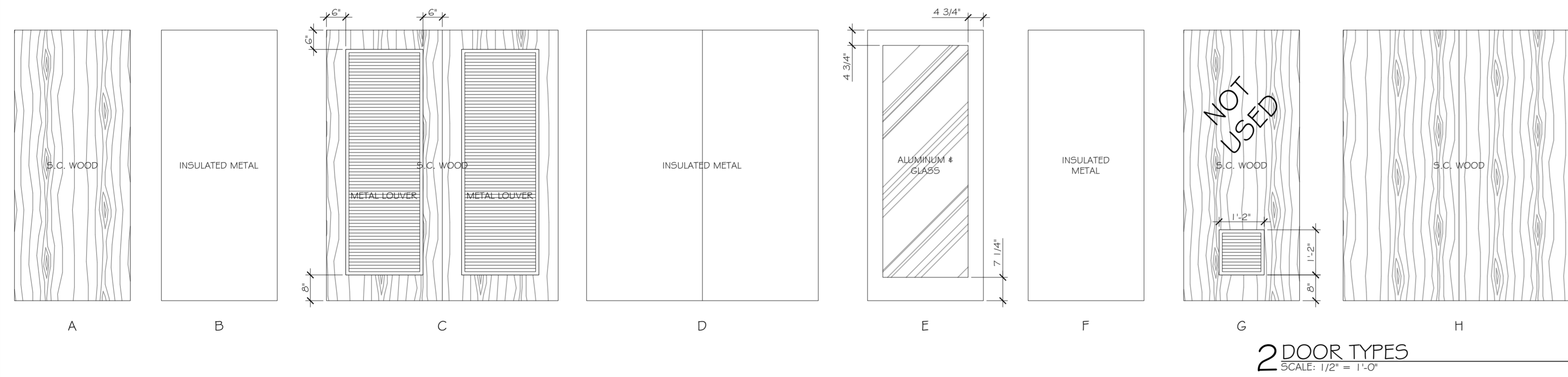
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FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	BASE	WALLS	CEILING	REMARKS
101	RECEPTION	PAINTED CONCRETE	RUBBER	PAINTED GB	PAINTED GB	
102	RETAIL	PAINTED CONCRETE	RUBBER	PAINTED GB	PAINTED GB	
103	LOUNGE	PAINTED CONCRETE	RUBBER	PAINTED GB	PAINTED GB	
104	HALL	PAINTED CONCRETE	RUBBER	PAINTED GB	PAINTED GB	
105	STAFF RESTROOM	PAINTED CONCRETE	RUBBER	PAINTED GB	PAINTED GB	
106	MATS	PAINTED CONCRETE	RUBBER	PAINTED GB	PAINTED GB	
107	LAUNDRY / UTILITY	PAINTED CONCRETE	RUBBER	PAINTED GB	PAINTED GB	
108	STAIR 1	PAINTED CONCRETE	WOOD	PAINTED GB	PAINTED GB	
109	MECHANICAL	SEALED CONCRETE	NONE	GB	GB	
110	YOGA	CARPET	WOOD	PAINTED GB / MIRROR	PAINTED GB / WOOD CLOUD	
111	HALL	PAINTED CONCRETE	RUBBER	PAINTED GB	PAINTED GB	
112	VESTIBULE 1	PAINTED CONCRETE	RUBBER	PAINTED GB	PAINTED GB	
113	HALL	PAINTED CONCRETE	RUBBER	PAINTED GB	PAINTED GB	
114	WH	SEALED CONCRETE	NONE	GB	GB	
116	WOMEN'S RESTROOM	STAINED/SEALED CONCRETE	CERAMIC TILE	PAINTED MRGB	PAINTED MRGB	
117	MEN'S RESTROOM	STAINED/SEALED CONCRETE	CERAMIC TILE	PAINTED MRGB	PAINTED MRGB	
118	WOMEN'S SHOWER	STAINED/SEALED CONCRETE	CERAMIC TILE	PAINTED MRGB	PAINTED MRGB	
119	MEN'S SHOWER	STAINED/SEALED CONCRETE	CERAMIC TILE	PAINTED MRGB	PAINTED MRGB	
120	CORRIDOR	SEALED CONCRETE	RUBBER	PAINTED GB	PAINTED GB	
121	VESTIBULE	SEALED CONCRETE	RUBBER	PAINTED GB / CMU	PAINTED GB	NO BASE ON CMU WALL
122	STAIR 3	CONCRETE	RUBBER	PAINTED GB / CMU	PAINTED GB	NO BASE ON CMU WALL
123	STAIR 2	SEALED CONCRETE	RUBBER	PAINTED GB / CMU	PAINTED GB	NO BASE ON CMU WALL
124	ELECTRICAL	SEALED CONCRETE	NONE	GB / CMU	PAINTED GB	

DOOR SCHEDULE

MK	SIZE	TYPE	DOOR MATERIAL	FRAME MATERIAL	FR	REMARKS
102A	3'-0"x7'-0"x1 3/4"	E	ALUM/GLASS	ALUM	NR	REPLACE DOORS, EXIST FRAME TO REMAIN
103A	3'-0"x7'-0"x1 3/4"	E	ALUM/GLASS	ALUM	NR	REPLACE DOORS, EXIST FRAME TO REMAIN
105A	3'-0"x7'-0"x1 3/4"	A	WOOD	METAL	NR	
107A	3'-0"x7'-0"x1 3/4"	A	WOOD	METAL	NR	
108A	3'-0"x7'-0"x1 3/4"	A	WOOD	METAL	45	
109A	2'-3"-0"x7'-0"x1 3/4"	C	WOOD	METAL	NR	LOUVERED
110A	2'-2"-6"x10'-0"x1 3/4"	H	WOOD	METAL	90	
113A	3'-0"x7'-0"x1 3/4"	A	WOOD	METAL	90	
114A	3'-0"x7'-0"x1 3/4"	A	WOOD	METAL	NR	
115A	3'-0"x7'-0"x1 3/4"	A	WOOD	METAL	NR	
117A	3'-0"x7'-0"x1 3/4"	A	WOOD	METAL	NR	
120A	3'-0"x7'-0"x1 3/4"	A	WOOD	METAL	90	
121A	3'-0"x7'-0"x1 3/4"	A	WOOD	METAL	45	
121B	2'-3"-0"x7'-0"x1 3/4"	D	INSULATED METAL	METAL	NR	REPLACE DOORS, EXIST FRAME TO REMAIN
122A	3'-0"x7'-0"x1 3/4"	A	WOOD	METAL	45	
123A	3'-0"x7'-0"x1 3/4"	F	INSULATED METAL	METAL	NR	
124A	3'-0"x7'-0"x1 3/4"	A	WOOD	METAL	45	
125A	3'-0"x7'-0"x1 3/4"	A	WOOD	METAL	45	
208A	3'-0"x7'-0"x1 3/4"	F	INSULATED METAL	METAL	45	
208B	3'-0"x7'-0"x1 3/4"	A	WOOD	METAL	45	
221A	3'-0"x7'-0"x1 3/4"	F	INSULATED METAL	METAL	45	



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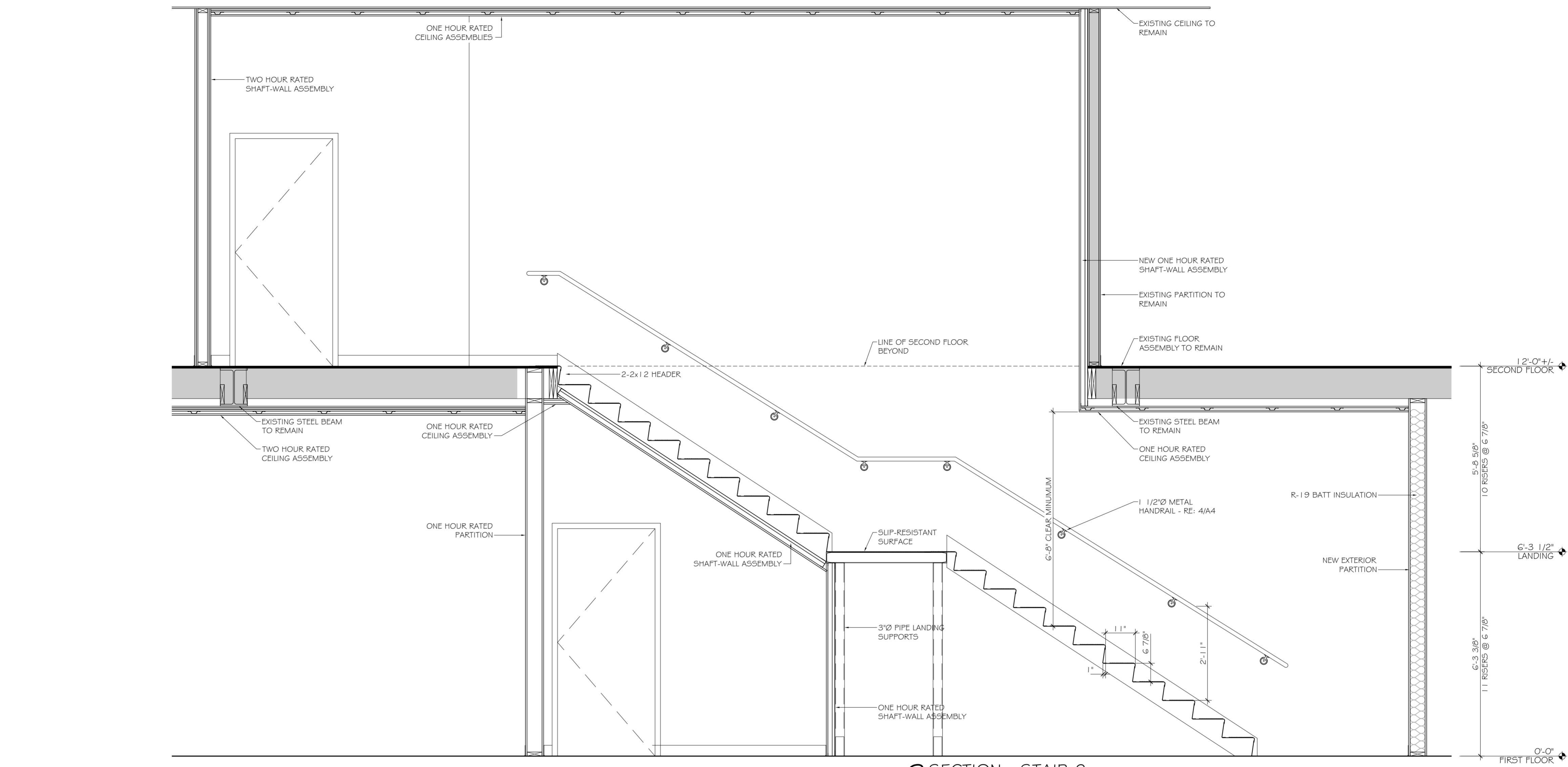
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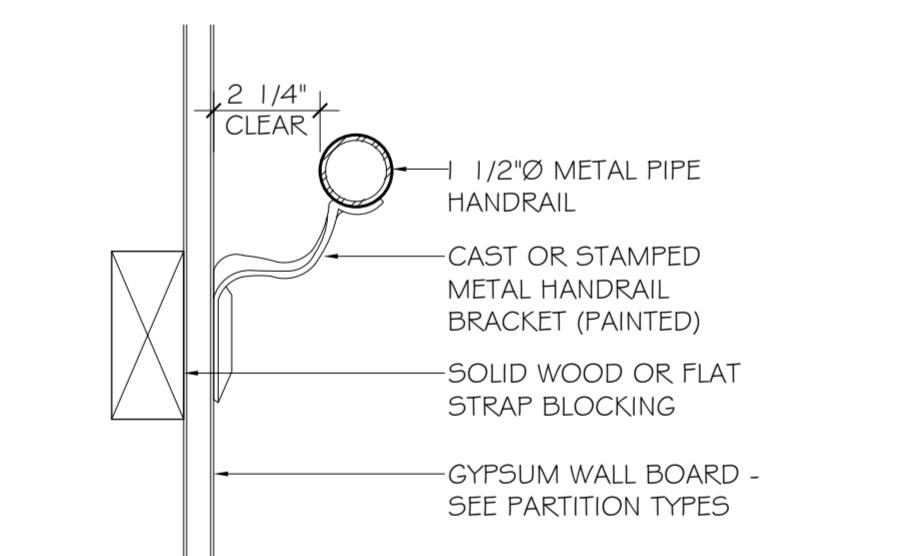
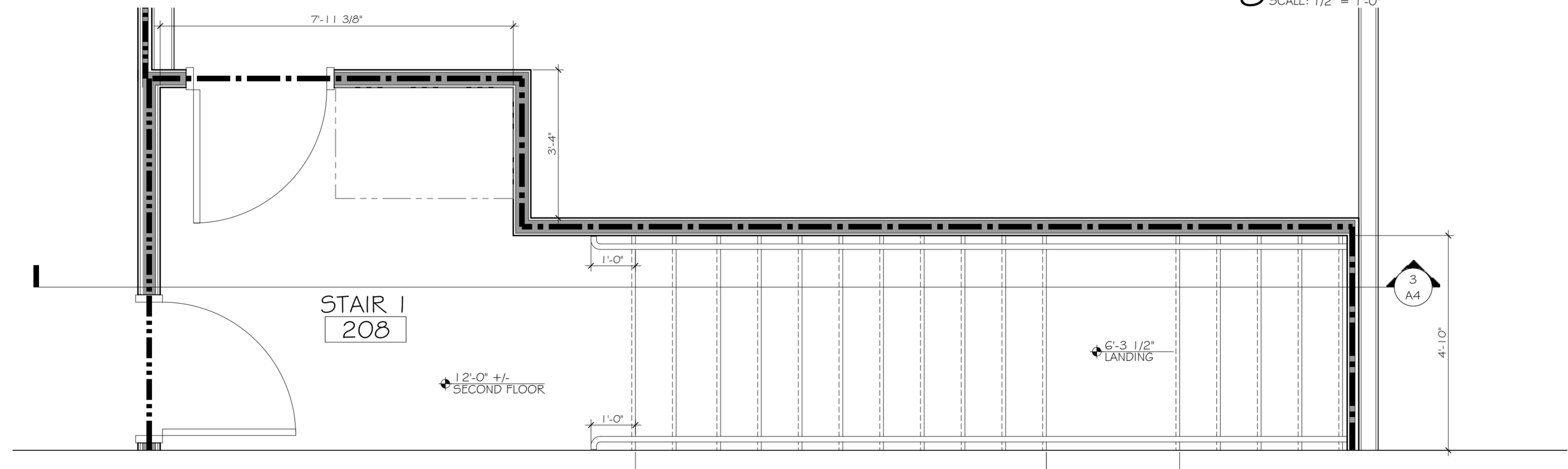
SCHEDULES DOOR TYPES PARTITION TYPES

SHEET No: 7 of 14

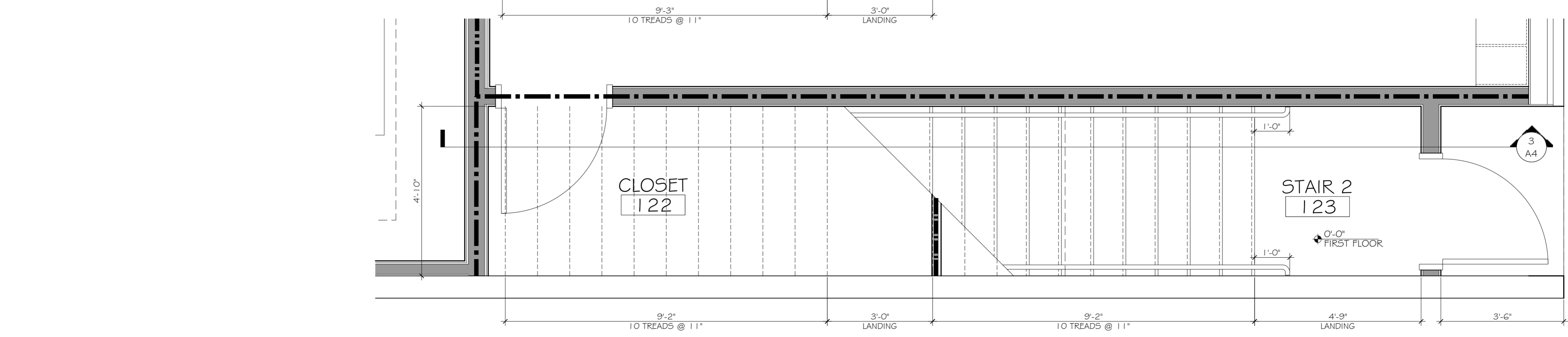
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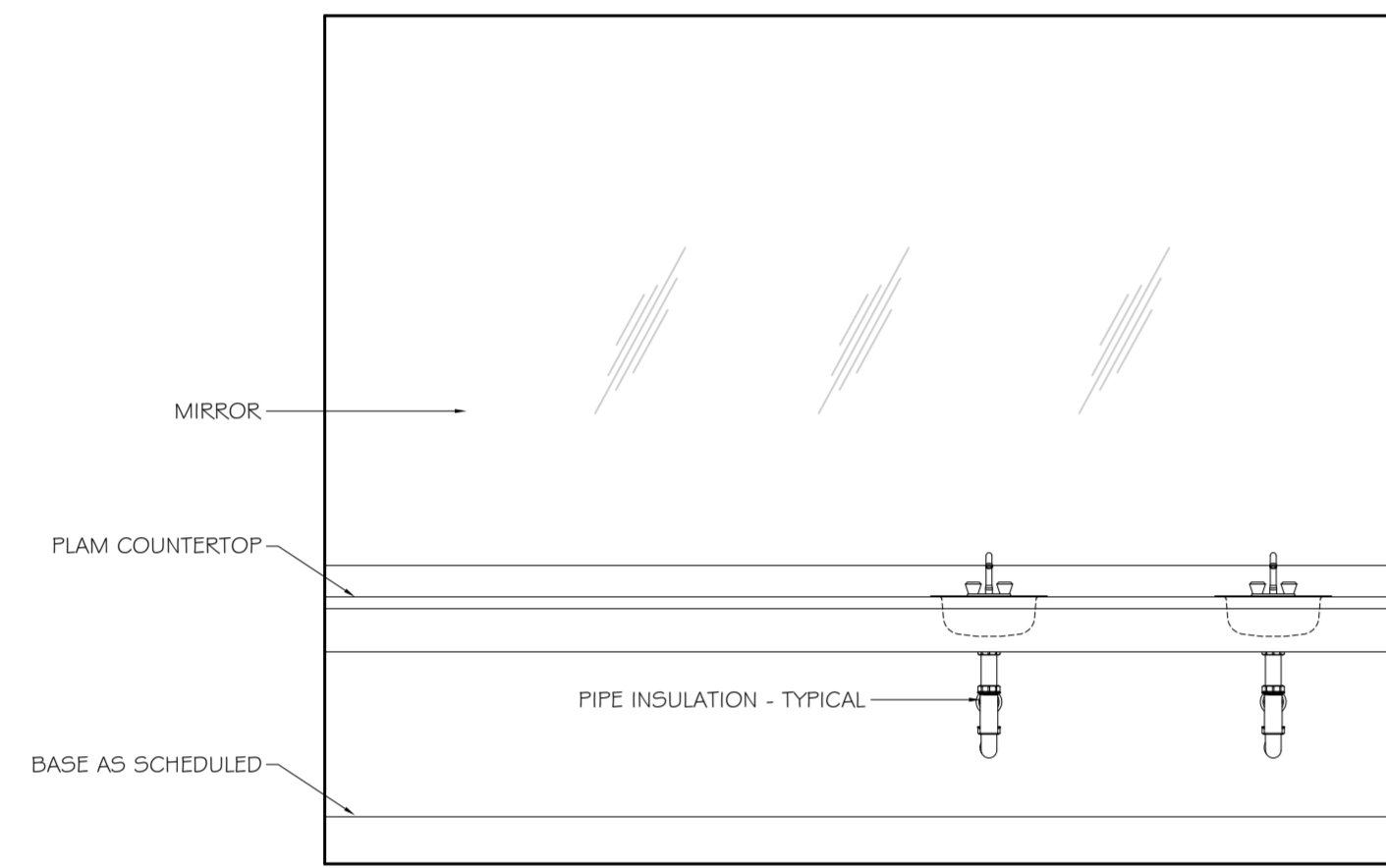
3 SECTION - STAIR 2
SCALE: 1/2" = 1'-0"



4 HANDRAIL DETAIL
SCALE: 3" = 1'-0"



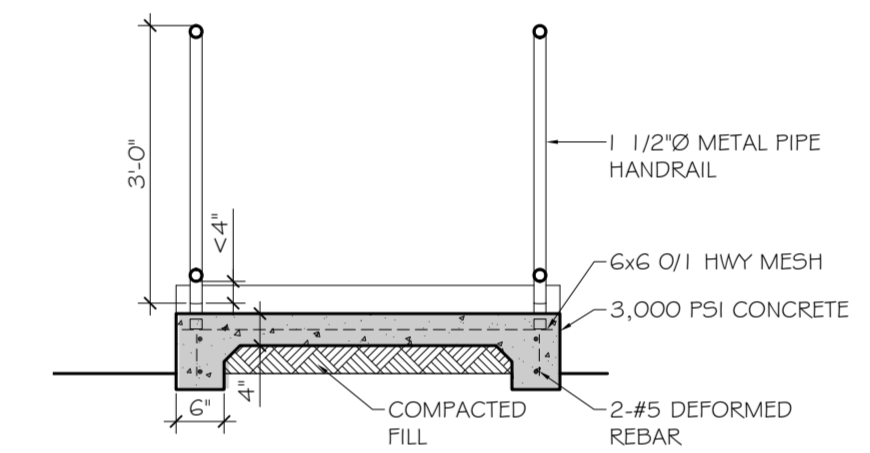
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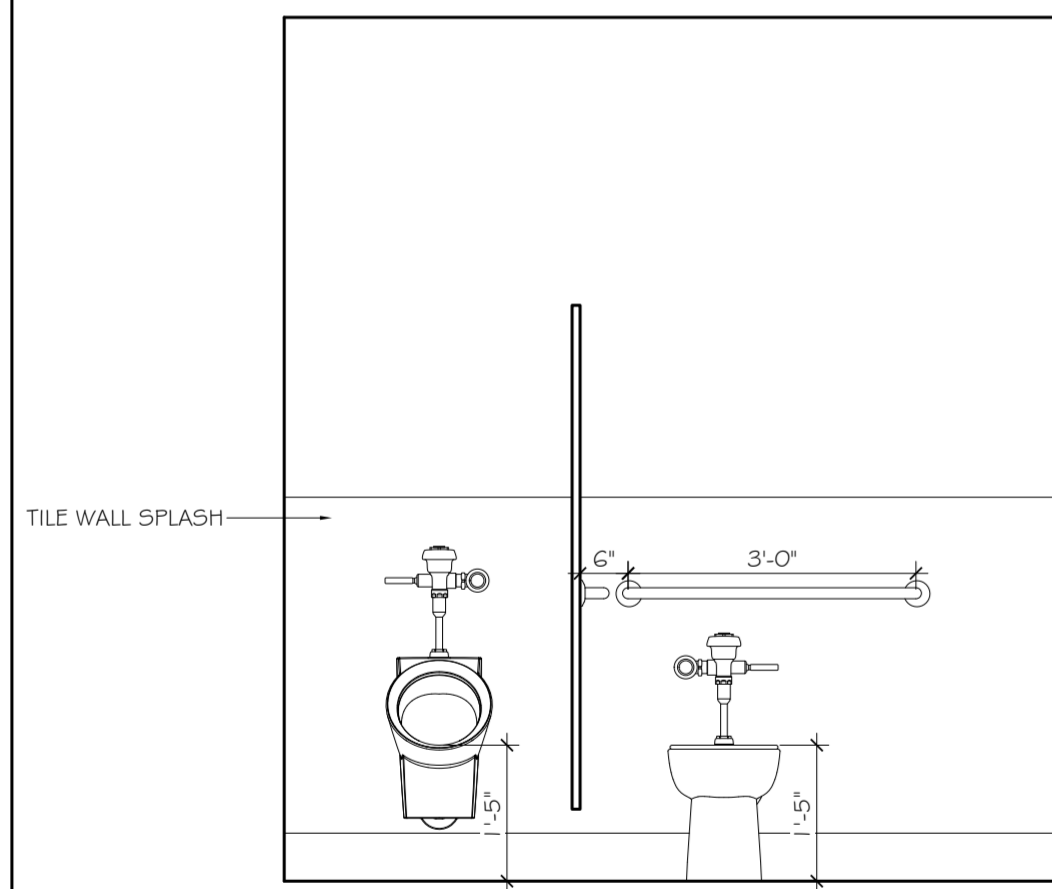
1 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



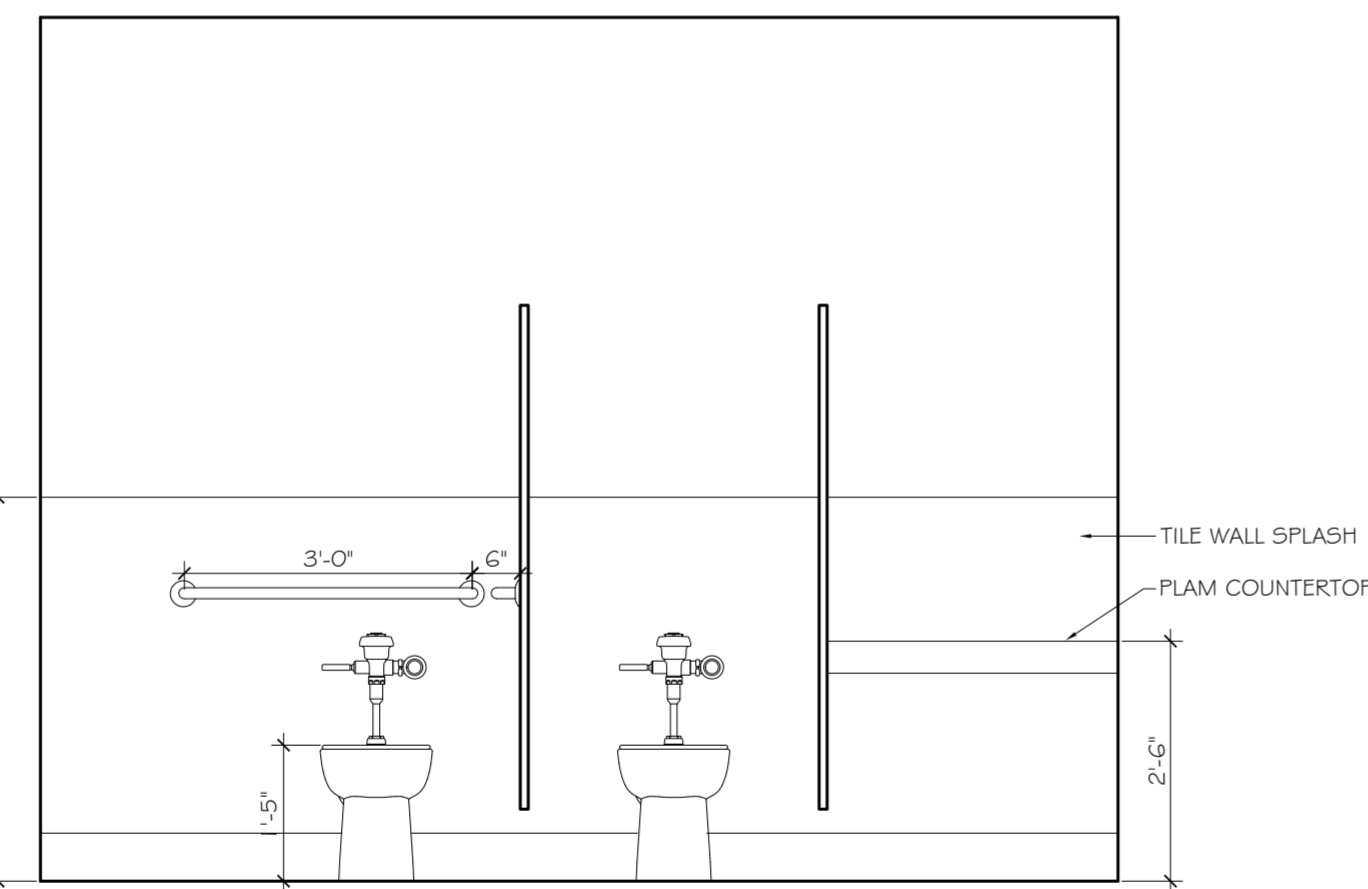
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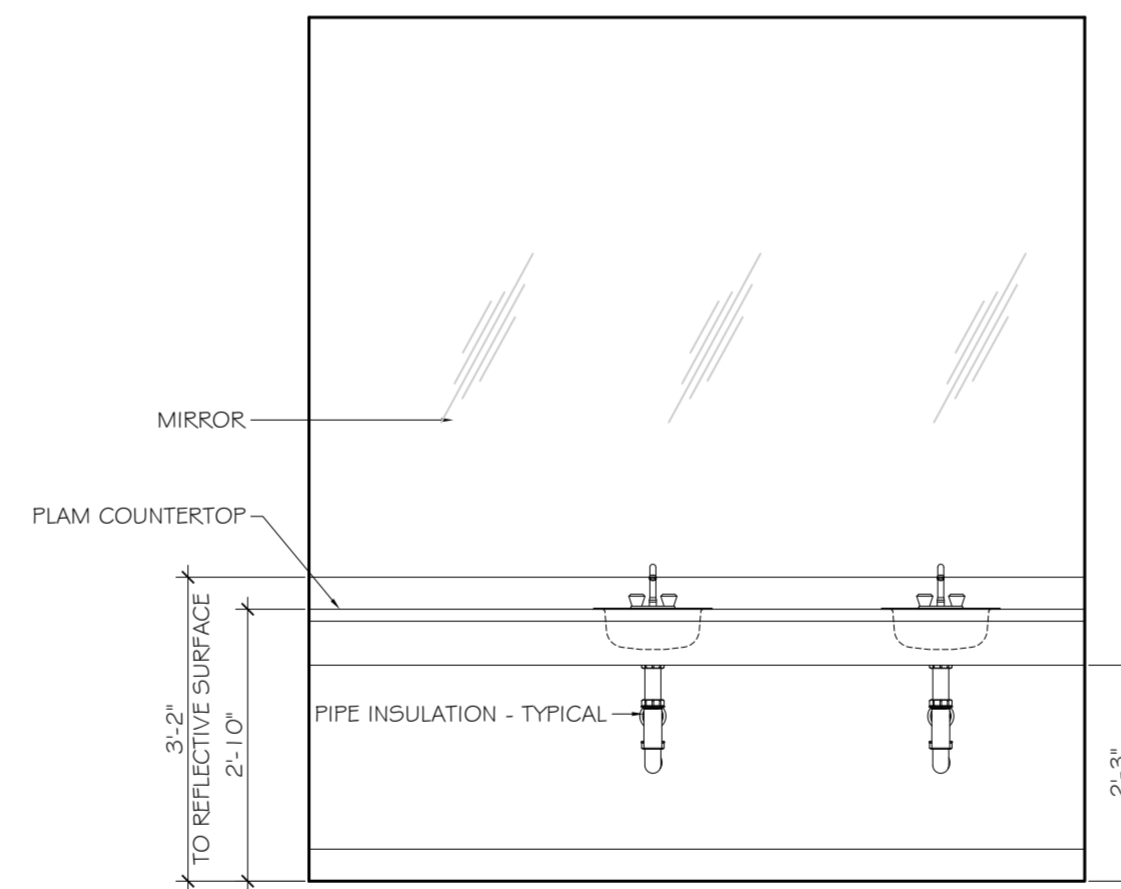
3 RAMP DETAIL
SCALE: 1/2" = 1'-0"



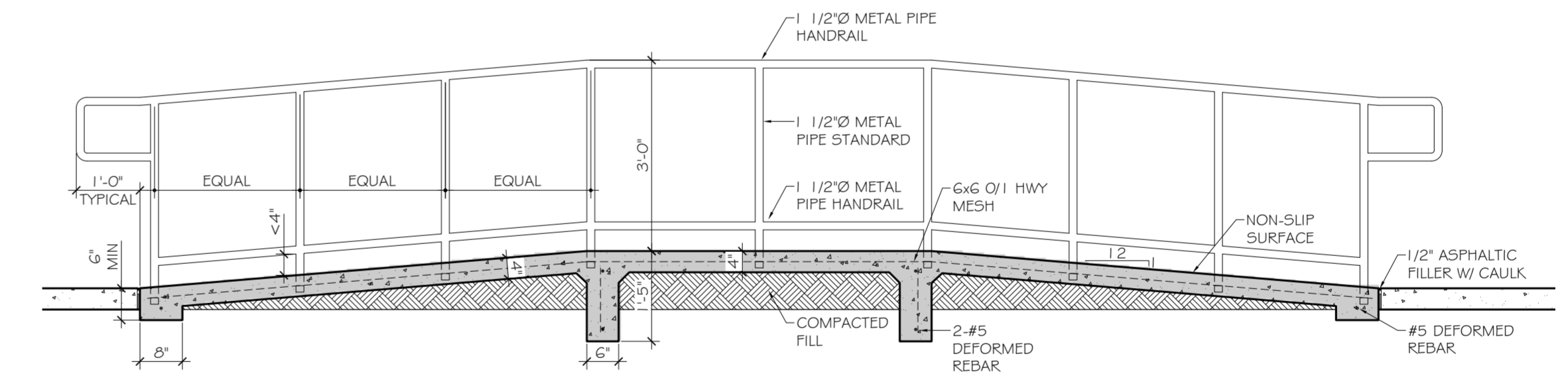
9 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



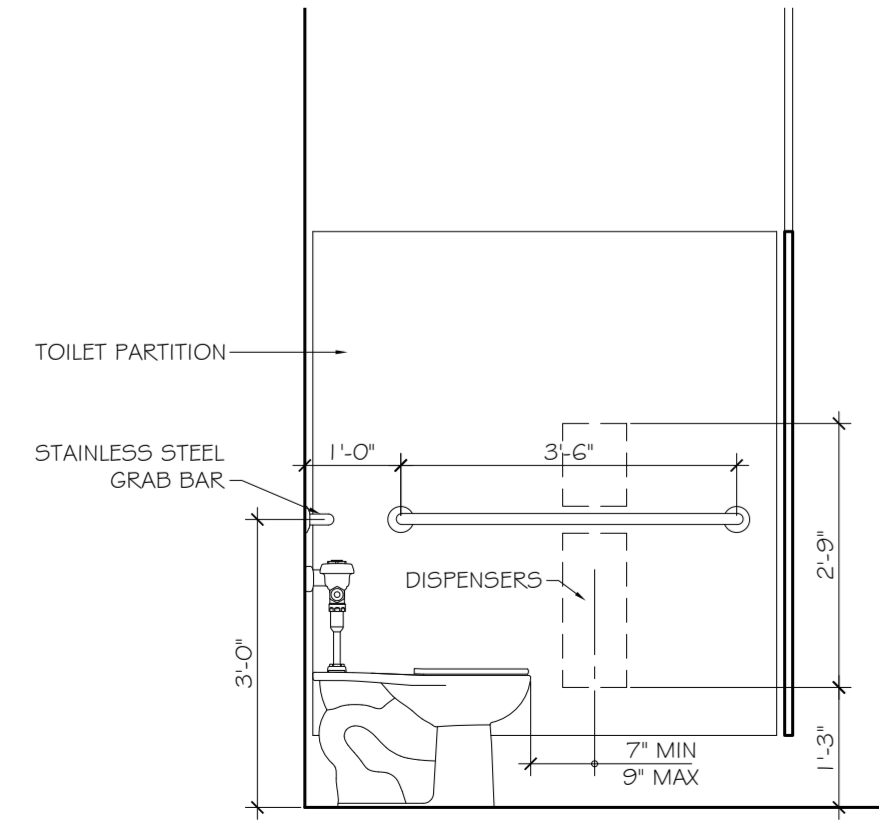
8 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



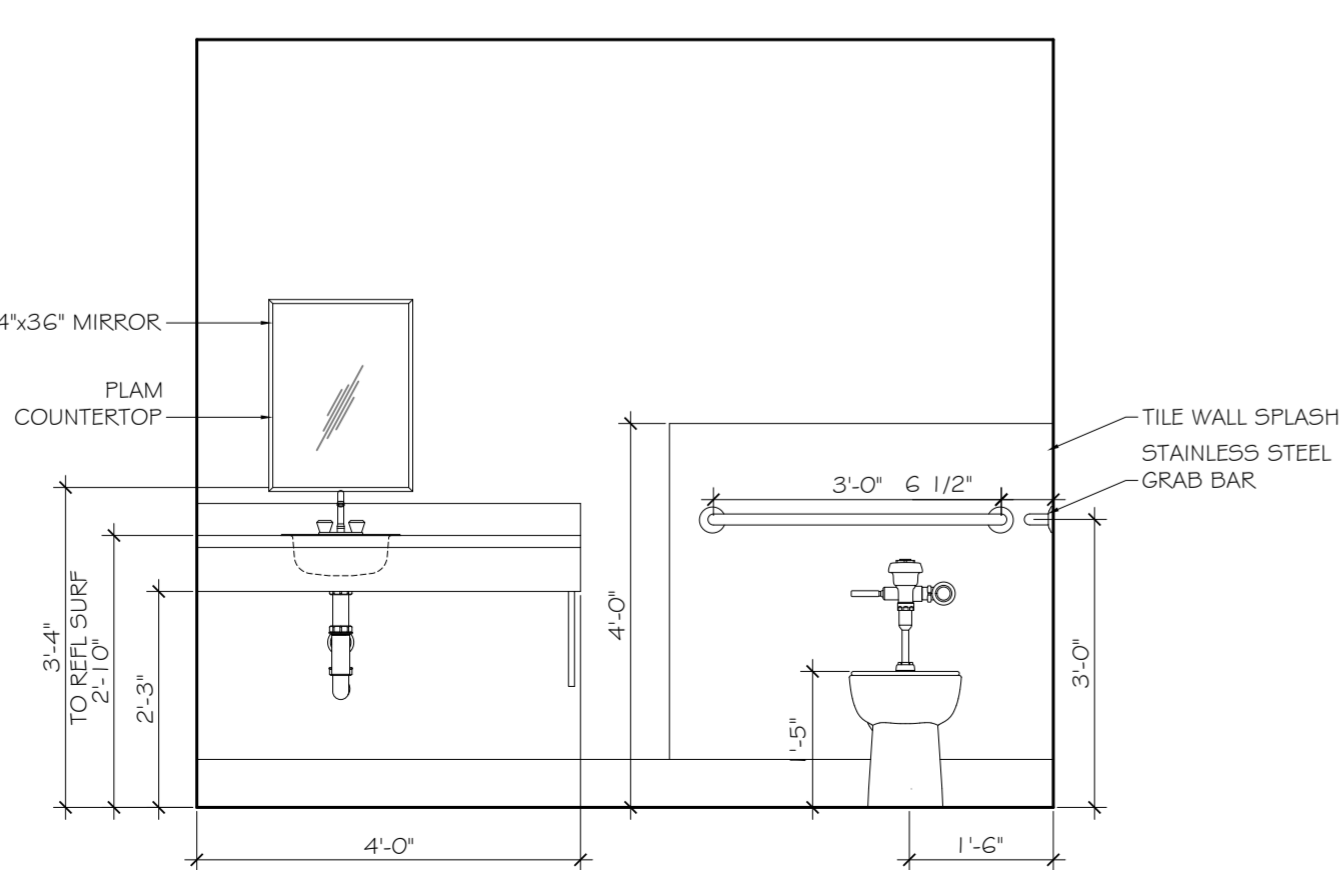
7 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



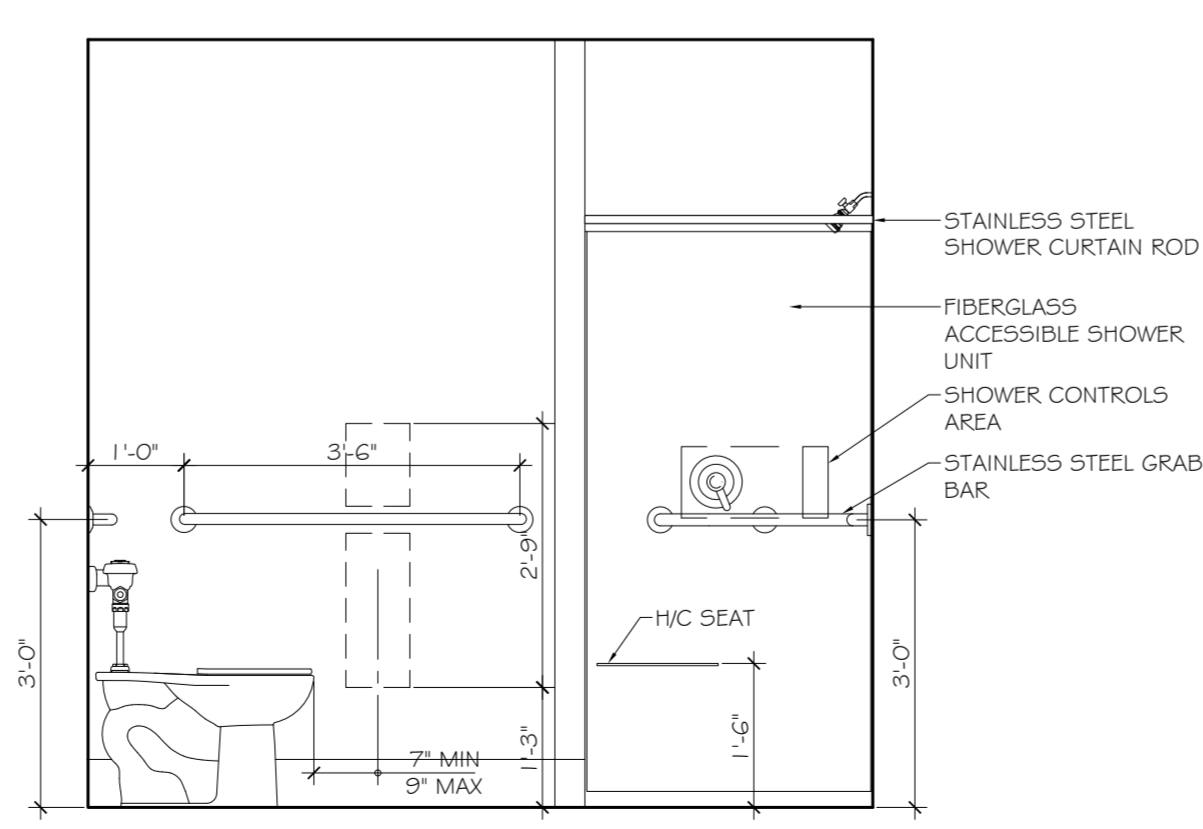
2 RAMP DETAIL
SCALE: 1/2" = 1'-0"



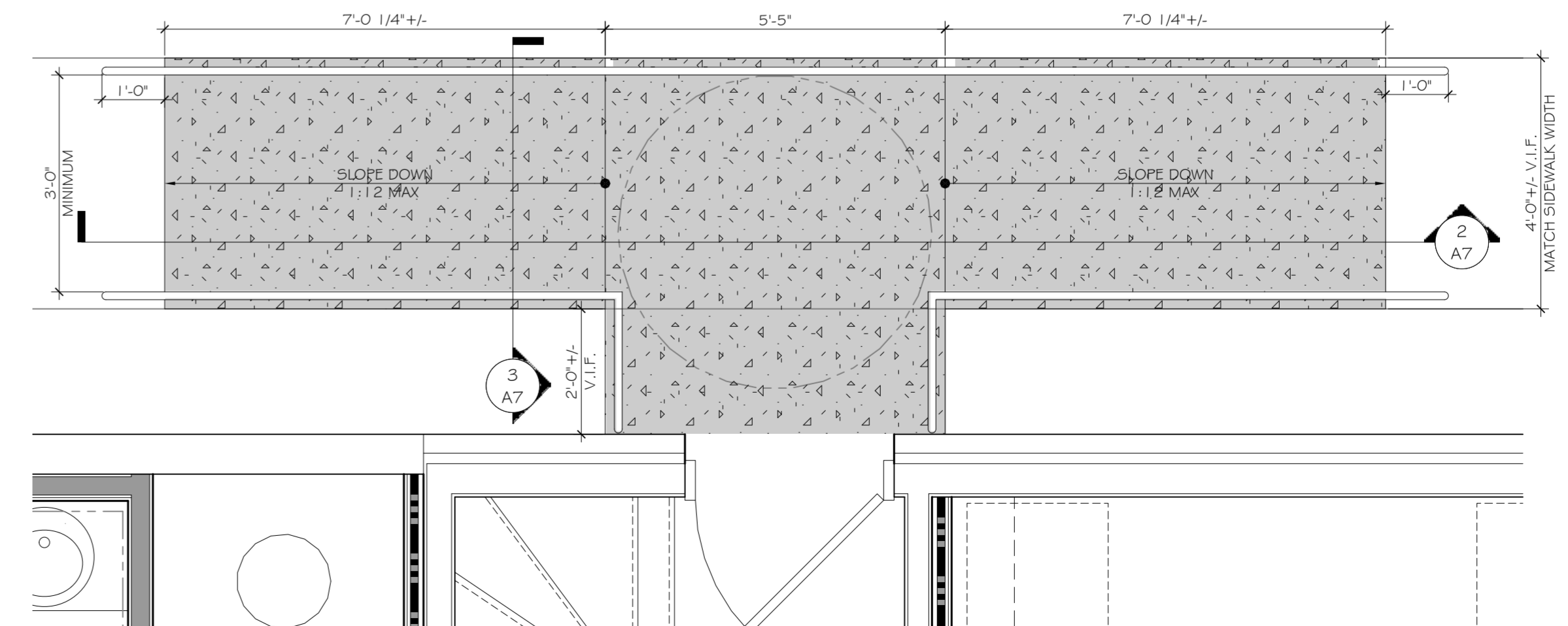
6 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



5 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



4 INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



BIKRAM YOGA STUDIO
8338 OAK STREET
NEW ORLEANS, LA 70118

#	DESCRIPTION	DATE

JOB No: 2175 DATE: 6-7-2013
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RAMP
PLANS
& DETAILS,
INT. ELEV.

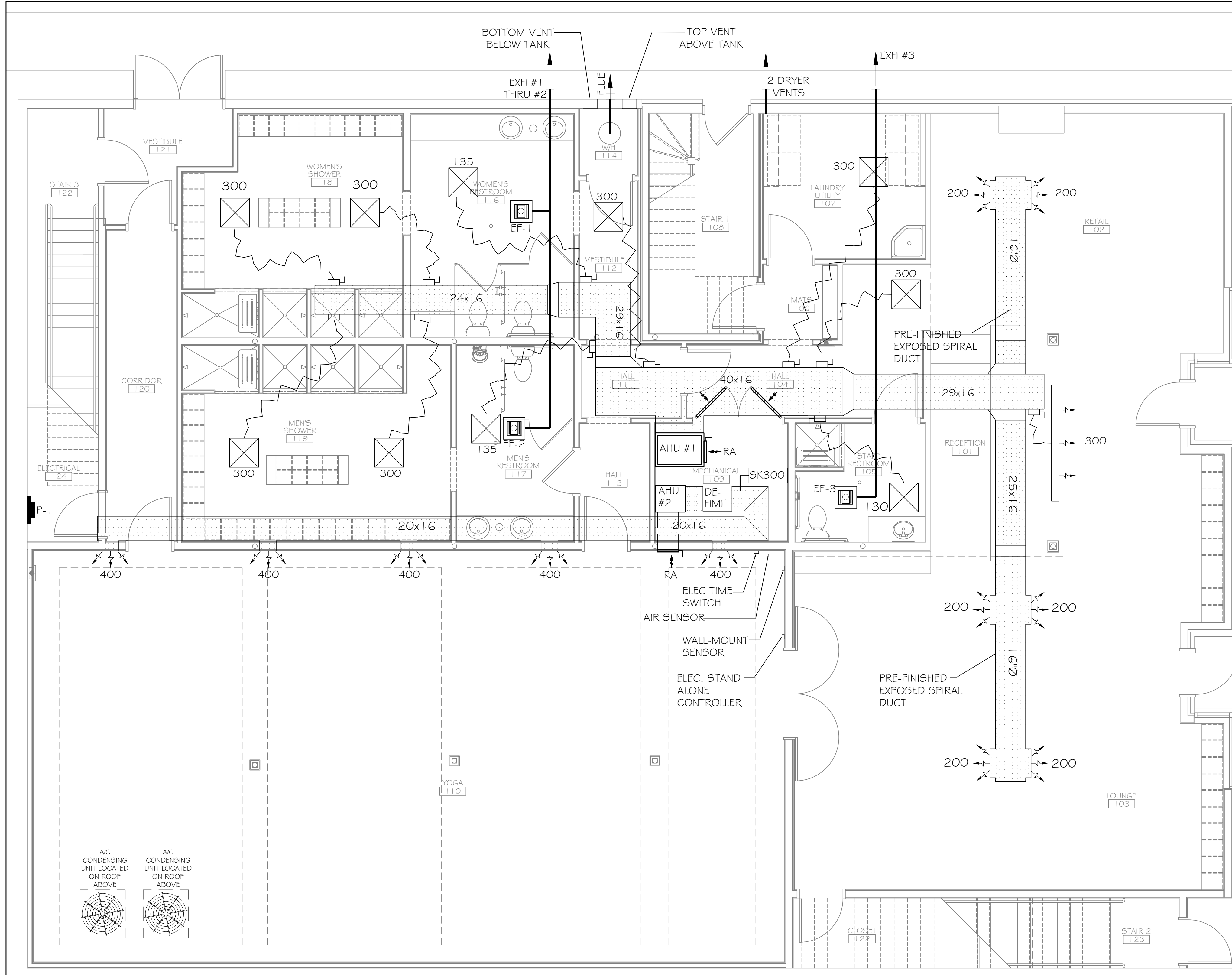
SHEET No: 9 of 14

A7

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CHIEF ARCHITECT: KEVIN KITCHEN, NCARB



EXHAUST FAN SCHEDULE				
FAN No.	CFM	VOLTAGE	TYPE	MANUFACTURER
EF-1	110	120	VENT/LIGHT	BROAN, SEE SPECS.
EF-2	110	120	VENT/LIGHT	BROAN, SEE SPECS.
EF-3	110	120	VENT/LIGHT	BROAN, SEE SPECS.

NOTE: ALL EXHAUSTS TO HAVE BACKFLOW PREVENTERS.

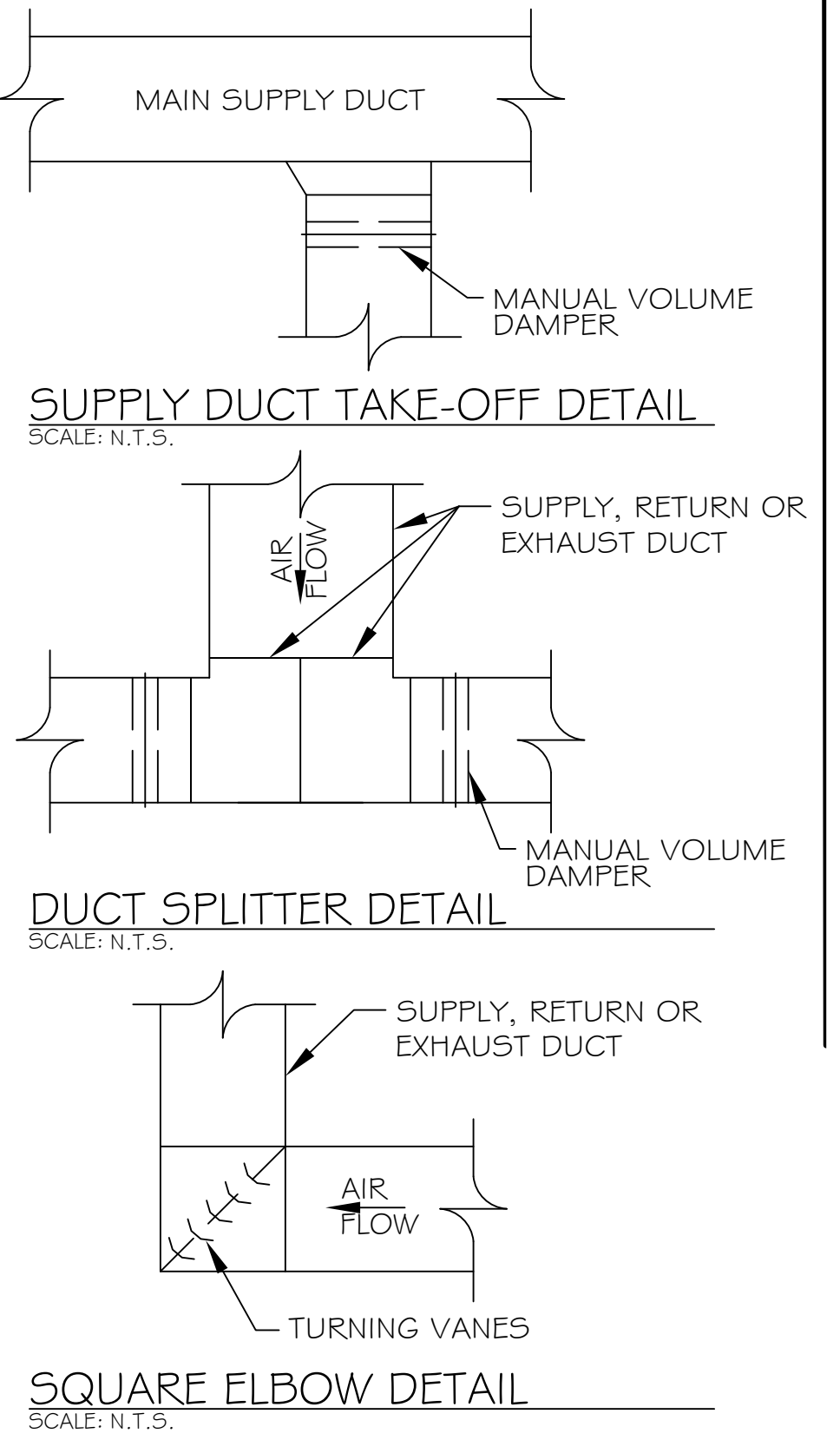
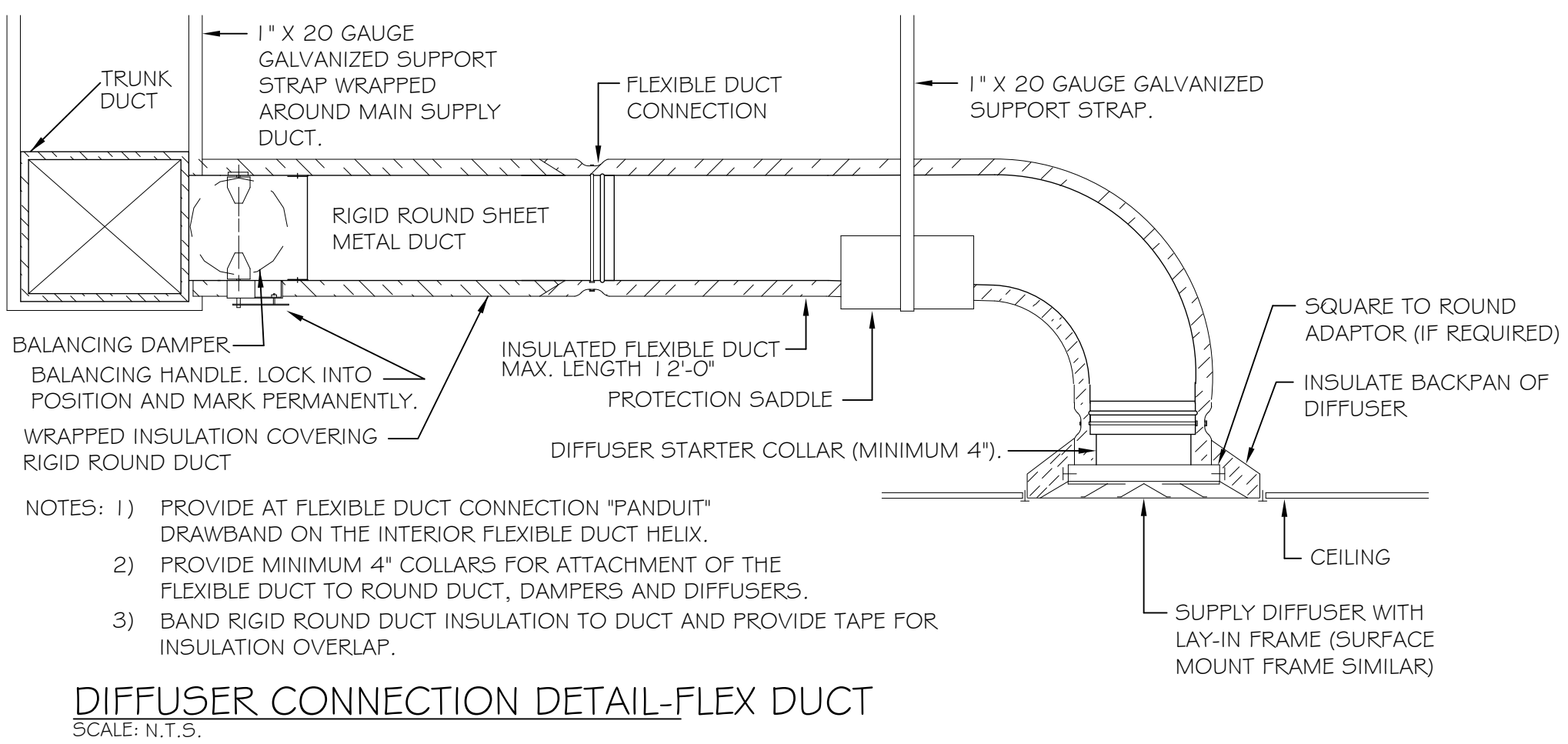
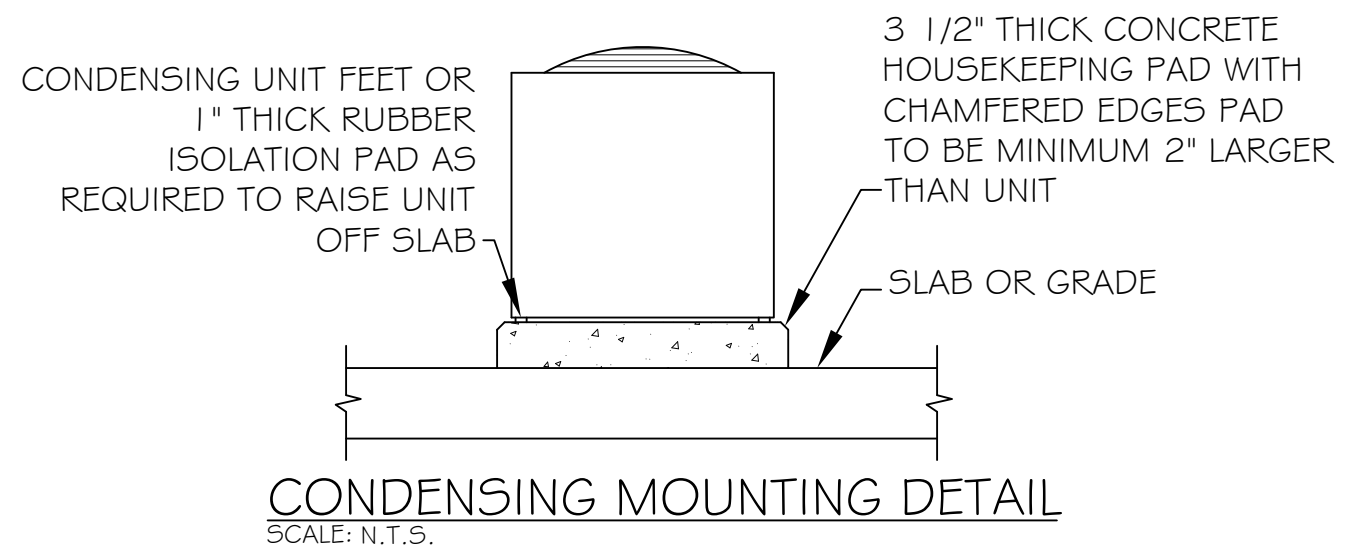
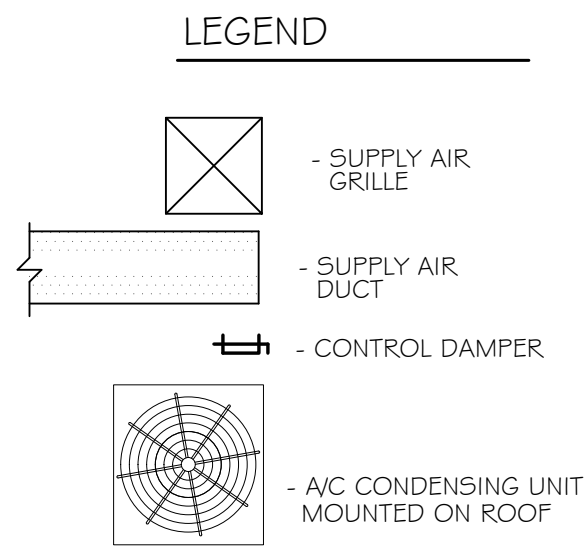
AHU UNIT SCHEDULE TOTAL HVAC TONS = 15								
NO.	TOTAL BTU	CFM	O.A.	HEAT ELEC.	ELECTRICAL			MANUFACTURER
					VOLTAGE	MCA	CKT BRKR	
1	120,000 10 TON	4,000	100	15 KW	208V, 1Ø	48/22	MDP-1,3	TRANE OR EQUAL
2	60,000 5 TON	2,000	100	15 KW	208V, 1Ø	48/22	MDP-5,7	

- ### HVAC NOTES
1. CONCEALED DUCTWORK TO BE UL-181, CLASS 1, FIBERGLASS DUCTBOARD. DUCTS SHALL BE SIZED TO LIMIT MAIN DUCTS TO 1000 CFM & SECONDARY DUCTS TO 800 CFM. TO BE INSTALLED PER SMACNA STANDARDS.
 2. EXPOSED DUCTWORK TO BE GALVANIZED SHEET METAL PER SMACNA STANDARDS. LINE WITH NEOPRENE COATED 1.0" 1.5 POUNDS PER CUBIC FOOT DUCT INSULATION.
 3. ROUND FLEXIBLE DUCT TO BE UL-181, CLASS 1, AIR DUCT MATERIALS.
 4. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
 5. IN ALL SYSTEMS OVER 2000 CFM AND LESS THAN 15,000 CFM, SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72E IN THE RETURN DUCT DOWNSTREAM OF THE AIR HANDLING UNIT AND ALL FILTERS TO AUTOMATICALLY STOP THE FAN.
 6. PROVIDE U.L. LISTED 125' F' FIRE RATED IN RETURN AIR OF EACH SYSTEM UNDER 2000 CFM TO SHUT DOWN THE FAN IN THE EVENT OF FIRE.
 7. PROVIDE U.L. RATED FIRE DAMPERS WHERE REQUIRED AT ALL DUCT PENETRATIONS OF FIRE-RATED ASSEMBLIES AND WHERE REQUIRED BY CODE, INCLUDING OUTSIDE AIR INTAKES.
 8. CONDENSATE DRAINS TO BE PVC PIPE RUN TO PLUMBERS F-TRAP WITHIN FIVE FEET OF AIR HANDLING UNITS.
 9. ALL AIR HANDLING SYSTEMS TO BE BALANCED TO ASSURE PROPER AIR FLOWS PER PLANS.
 10. ALL THERMOSTATS TO BE AUTOMATIC CHANGEOVER WITH HEAT SWITCH.
 11. EXHAUST FAN EQUAL TO BROAN MODEL NO. 100 CF. OR EQUAL. FAN SHALL BE CONTROLLED BY A SWITCH ON THE WALL IN THE SAME LOCATION AS LIGHT SWITCH(S). PROVIDE BACK DRAFT DAMPER.
 12. PROVIDE AND INSTALL WATER PROOF GRILLE VENT IN PROPER ROOF LOCATION FOR PLUMBING FIXTURE EXHAUST.
 13. ALL SUPPLY AIR VENTS SHALL BE EQUIPPED WITH AIR CONTROL DAMPERS.
 14. LOCATE OUTDOOR UNITS AS SHOWN ON ARCH. DWGS.
 15. REFRIGERANT LINES SHALL BE SIZED BY UNIT MANUFACTURER AND INSTALLED ACCORDING TO MANUFACTURERS' INSTRUCTIONS.
 16. FRESH AIR SHALL BE SUPPLIED TO EACH AIR HANDLER THROUGH EXTERIOR WALL DUCT SUPPLIED WITH A CONTROL DAMPER.
 17. INSTALL FIRE DAMPER WHERE S.A. & R.A. DUCTS PENETRATE 1 HOUR RATED CEILING.
 18. ALL ELECTRICAL, MECHANICAL, AND PLUMBING PENETRATING FIRE WALLS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E8-14).
 19. ALL MECHANICAL SYMBOLS ARE DRAWN DIAGRAMATICALLY. CONTRACTOR TO VERIFY WITH OWNER LOCATIONS OF VENTS, DAMPERS, REGISTERS, ETC.
 20. REFER TO STRUCTURAL DRAWINGS TO COORDINATE LOCATION(S) & MOUNTING OF MECHANICAL EQUIPMENT.
 21. FLEXIBLE DUCTWORK LENGTH NOT TO EXCEED 10'-0".
 22. REFER TO REFLECTED CEILING PLAN FOR FINAL GRILLE AND DIFFUSER LOCATIONS AND COORDINATE AS REQUIRED.
 23. FINAL LOCATION OF TEMPERATURE CONTROLS TO BE COORDINATED WITH OWNER AT JOB SITE.
 24. PROVIDE AND INSTALL SMOKE DETECTORS AS APPROVED BY LOCAL AHJ'S. PLACE NEAR R/A AND S/A OPENINGS OF AHU AND PROVIDE, WITH ACCESS PANEL, WIRING BY ELECTRICAL CONTRACTOR.
 25. FRESH AIR INTAKES ARE REQUIRED TO HAVE MOTORIZED OR GRAVITY DAMPERS TO SHUT OFF WHEN SYSTEM IS NOT RUNNING. ALL THERMOSTATS MUST BE PROGRAMMABLE. SEE SECTIONS 502.4.4 OR 503.2.4.3 OF THE 2006 INTERNATIONAL ENERGY CODE.

NOTE-1: MECHANICAL PLAN IS DRAWN DIAGRAMATIC. DUCT LOCATIONS ARE FOR REFERENCE ONLY. FIELD LOCATE AS NEEDED BETWEEN JOISTS OR TRUSSES. INSTALL FIRE DAMPER AT ANY LOCATION WHERE DUCT PENETRATES A FIRE WALL OR CEILING. ANY EXHAUST FAN FIXTURE INSTALLED IN A RATED CEILING SHALL BE RATED FOR THAT CEILING. REFER TO MECHANICAL NOTES & DETAILS ON SHEET M-2 FOR FURTHER INFORMATION.

NOTE-2: COORDINATE LOCATION OF ALL SUPPLY AIR DIFFUSERS, RETURN AIR GRILLES, EXHAUST FANS, ETC... WITH LIGHTING PLAN.

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



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8338 OAK STREET
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JOB No: 2175 DATE: 6-7-2013 CHECKED BY: KJK

DRAWN BY: JCT

#	DESCRIPTION	DATE

MECHANICAL PLAN

SHEET No: 10 of 14

MI

POWER PLAN LEGEND

SYM.	DESCRIPTION
	STANDARD 120V DUPLEX RECEPTACLE, NEMA 5-2 OR 18" H (UNLESS OTHERWISE NOTED)
	GFI RECEPTACLE
	DRYER RECEPTACLE: 30A, 250V, 3-POLE, 4-WIRE, NEMA 14-30R OR BY MANUFACTURER.
	JUNCTION BOX
	SWITCH
	VARIABLE FAN CONTROLLER
	POWER DISCONNECT
	WATER HEATER SIZE AS NOTED
	AIR CONDITIONING COND. UNIT SEE MECH SHEETS FOR UNIT DETAILS

NEW PANEL: MDP
LOCATION: RM 124
FEEDER SOURCE: METER

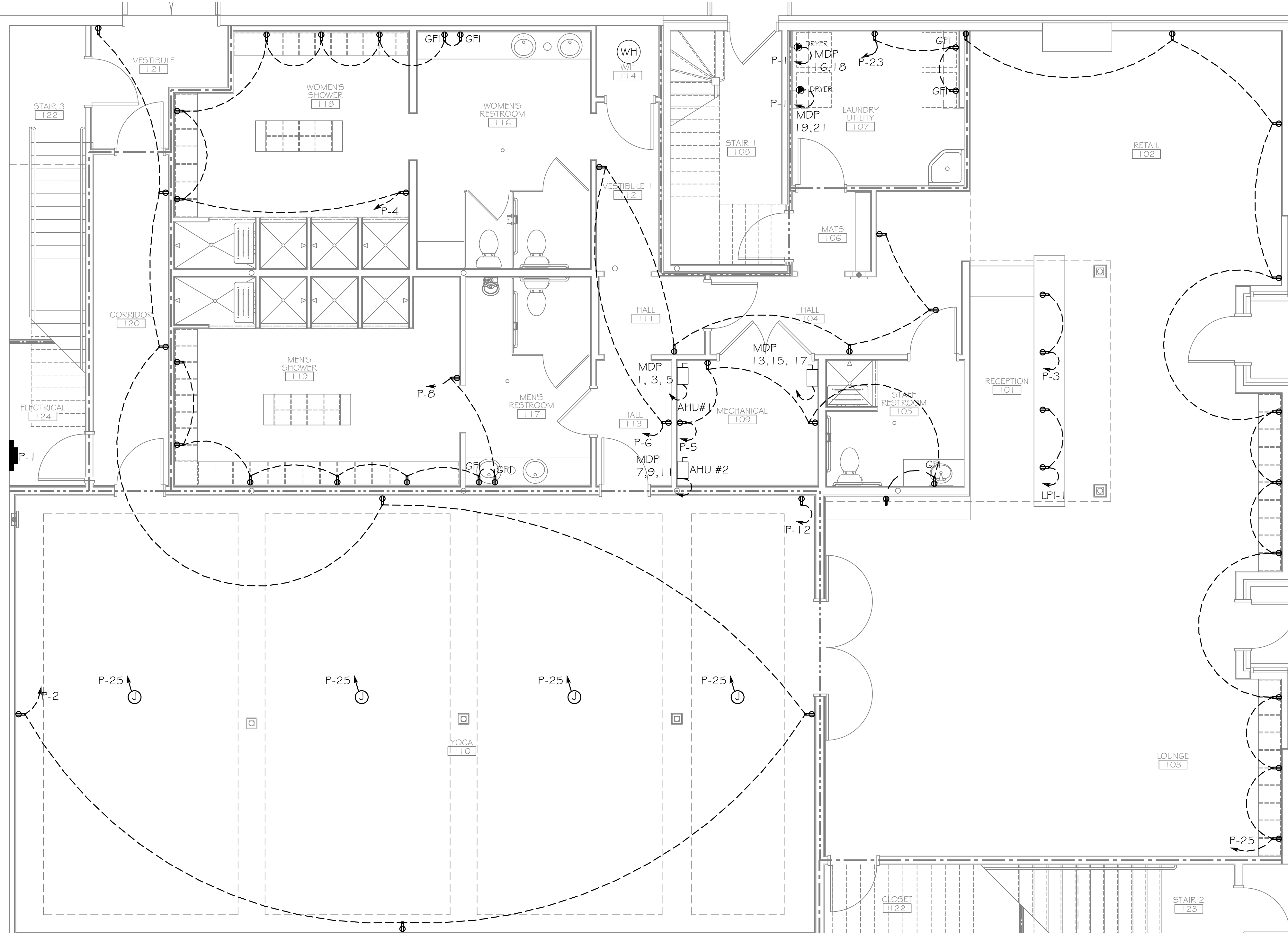
VOLTAGE: 120/240V, 400A 3ø, 4W
ENCLOSURE: FLUSH MOUNTED W/EQUIPMENT GRND BAR
400A MAIN, 22,000 AIC

Ckt. No.	THIN WIRE SIZE	LOAD DESCRIPTION	LOCATION	BREAKER	LOAD (VA)	AS	B	C	LOAD (VA)	BREAKER	LOAD DESCRIPTION	LOCATION	THIN WIRE SIZE	Ckt. No.
1					7,566				8,148					2
3	#6	AHU #1		60	3	7,566			8,148	100	A/C #1		#2	4
5					7,566				8,148					6
7					13,164				4,488	60	A/C #2		#6	8
9	#2	AHU #2		100	3	13,164			4,488	20	60			10
11					13,164				14,374	20	SUB PANEL		#6	12
13					2,286				14,274	20				14
15	#10	2x300 STEAM HUMIDIFIER		25	3	2,286			3,600	30	DRYER #1		#10	16
17					2,286				3,600	2				18
19	#10	DRYER #2		30	2	3,600								20
21					3,600									22
23					3,600									24
TOTAL CONNECTED LOAD (145,516VA)														
					A=53,626VA B=42,852VA C=49,138VA									

PANEL: LP-1
LOCATION: RM 124
FEEDER SOURCE: MDP

VOLTAGE: 120/240V, 100A 1ø, 3W
ENCLOSURE: FLUSH MOUNTED; MLO;
W/EQUIPMENT GRND BAR; 22,000 AIC

Ckt. No.	THIN WIRE SIZE	LOAD DESCRIPTION	LOCATION	BREAKER	LOAD (VA)	AS	B	C	LOAD (VA)	BREAKER	LOAD DESCRIPTION	LOCATION	THIN WIRE SIZE	Ckt. No.
1	#12	RECEPTION RECEPTACLES		20	1	1,000			1,120	1	20	YOGA ROOM & CORRIDOR RECEPTACLES	#12	2
3	#12	RECEPTION RECEPTACLES		20	1	1,000			1,280	1	20	WOMEN'S RESTROOM AND SHOWER RECEPTACLES	#12	4
5	#12	MECHANICAL STAFF RESTROOM		20	1	800			960	1	20	HALL AND VESTIBLE RECEPTACLES	#12	6
7	#12	APPLIANCE DEHUMIDIFIER 1770		20	1	1,680			1,280	1	20	MENS RESTROOM AND SHOWER	#12	8
9	#12	ELECTRONIC STAND ALONE CONTROLLER		20	1	1,800			1,800	1	20	LAUNDRY RECEPTACLES	#12	10
11	#12	RETAIL & LOUNGE RECEPTACLES		20	1	1,600			500	1	20	TIME SWITCH AND SENSORS	#12	12
13	#12	LOUNGE, STAFF RESTROOM, HALL AND VESTIBLE RECESSED, STRIP, & PENDANT LIGHTING		20	1	570			658	1	20	WOMEN'S RESTROOMS, CORRIDOR RECESSED LIGHTING, LAUNDRY, MATS, MECH. & STAIR LIGHTS	#12	14
15	#12	RETAIL TRACK LIGHTS		20	1	1,100			1,300	1	20	EMERGENCY EXIT LIGHTS	#12	16
17	#12	STAIRS, WALL-MOUNTED FLUORESCENT LIGHTS AND EXTERIOR LIGHTS		20	1	224			1,426	1	20	WOMEN'S AND MENS SHOWER RECESSED LIGHTING	#12	18
19	#12	YOGA FLUORESCENT LIGHTS		20	1	1,206			1,688	1	20	YOGA FLUORESCENT LIGHTS	#12	20
21	#12	YOGA FLUORESCENT LIGHTS		20	1	1,688			1,688	1	20	YOGA FLUORESCENT LIGHTS	#12	22
23	#12	MENS, WOMEN'S, AND STAFF RESTROOM FAN LIGHTS & SINK LIGHTS		20	1	340			1,100	1	20	EXIT LIGHTS THROUGHOUT BUILDING AND YOGA ROOM FANS	#12	24
25	#12	YOGA ROOM JUNCTION BOXES		20	1	640			-	1	20	SPARE	#12	26
27	#12	SPARE		20	1	-			-	1	20	SPARE	#12	28
29	#12	SPARE		20	1	-			-	1	20	SPARE	#12	30
TOTAL CONNECTED LOAD (VA)=28,648														
					A=14,374 B=14,274									



GENERAL NOTES:

- GENERAL REQUIREMENTS**
- ELECTRICAL CONTRACTOR SHALL COORDINATE FULLY WITH OTHER CONTRACTORS ASSOCIATED WITH THIS PROJECT TO VERIFY ALL EQUIPMENT LOCATIONS, CONNECTION REQUIREMENTS, ELEVATIONS AND LOCATIONS OF PIPES, CONDUITS AND DUCTS TO PREVENT CONFLICTS DURING CONSTRUCTION. ANY RELOCATION OR ROUTING OF EQUIPMENT, PIPES, CONDUITS, DUCTS OR MATERIALS RESULTING FROM A LACK OF COORDINATION BETWEEN CONTRACTORS WILL BE AT THE CONTRACTORS EXPENSE.
 - EQUIPMENT ROUGH-INS SHOWN ARE ACCURATE TO THE BEST OF DESIGNER'S KNOWLEDGE. HOWEVER, IN SOME INSTANCES, THE OWNER OR SUPPLIER MAY SUBSTITUTE, OR THE EQUIPMENT ITEM MAY VARY FROM WHAT IS SHOWN. THEREFORE, THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS WITH THE OWNER PRIOR TO CONSTRUCTION. FAILURE OF THE ELECTRICAL CONTRACTOR TO VERIFY THESE DIMENSIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT RELOCATION DIRECTLY UPON THE CONTRACTOR.
 - ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL REQUIRED DISCONNECT SWITCHES AND MOTOR STARTERS TO ALL EQUIPMENT.
 - ELECTRICAL CONTRACTOR SHALL REVIEW WITH OWNER AND SIGNAGE MANUFACTURER, REQUIREMENTS AND LOCATION OF BUILDING SIGNAGE PRIOR TO CONSTRUCTION AND PROVIDE 120VAC CONNECTION AS REQUIRED.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS AT JOB COMPLETION TO ARCHITECT.
 - ALL WORK SHALL BE INSTALLED PER ALL GOVERNING CODES.
 - ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL DRYER/RECEPTACLES COMPLETE. REFER TO INSTRUCTION MANUAL FOR DETAILS.
 - ALL EXTERIOR LIGHTING AND SIGN CIRCUIT BREAKERS TO BE "SWITCH GRADE".
 - NOT USED.
 - ALL JUNCTION BOXES INSTALLED ABOVE OR DIRECTLY BELOW THE SUSPENDED CEILING SHALL BE SUPPORTED IN ACCORDANCE WITH ARTICLE 314-23 OF THE 2002 NEC.
 - COMPUTER AND PHONE WIRING SHALL BE ROUTED IN 3/4" CONDUIT TO PHONE BOARD IN OFFICE FROM DEVICE LOCATION.
 - ALL ISOLATED GROUND RECEPTACLE CIRCUITS SHALL BE EQUIPPED WITH INSULATED GROUND CONDUCTOR AND SEPARATE NEUTRAL WIRE.
 - NEUTRAL WIRES FOR ISOLATED GROUND CIRCUITS SHALL NOT BE SHARED WITH OTHER BRANCH CIRCUITS. PROVIDE SEPARATE NEUTRAL WIRE FOR EACH ISOLATED GROUND CIRCUIT.
 - ISOLATED GROUND CIRCUITS SHALL NOT BE ROUTED WITHIN SAME CONDUIT AS GENERAL BRANCH CIRCUIT WIRING. PROVIDE SEPARATE CONDUIT FOR SERVICE TO ISOLATED GROUND CIRCUITS.
 - ISOLATED GROUND RECEPTACLES SHALL UNDER NO CIRCUMSTANCE BE INSTALLED IN COMMON JUNCTION BOX WITH NON-ISOLATED GROUND TYPE RECEPTACLE.
 - NOT USED
 - USE CIRCUIT BREAKERS U.L. LISTED AS HACR TYPE FOR USE WITH HVAC AND REFRIGERATING EQUIPMENT HAVING MOTOR GROUP COMBINATIONS AND MARKED FOR USE WITH HACR TYPE CIRCUIT BREAKERS.
 - ALL EXIT SIGNS, EMERGENCY EGRESS LIGHTS AND NIGHT LIGHT FIXTURES SHALL BE CONNECTED TO THE BRANCH CIRCUITS INDICATED AHEAD OF RESPECTIVE CONTROL SWITCH, IN ORDER TO PROVIDE UNSWITCHED SOURCE TO FIXTURES.
- RACEWAY SYSTEMS**
- ALL BRANCH CIRCUIT WIRING SHALL BE ROUTED IN EMT, ELECTRICAL METALLIC TUBING. USE STEEL SET SCREW TYPE FITTINGS ON ALL EMT.
 - CONDUIT SHALL BE SUPPORTED AT INTERVALS PER NEC REQUIREMENTS AND SHALL BE SECURELY FASTENED TO BUILDING WITH AN APPROVED FASTENING SYSTEM.
- WIRING, WIRING DEVICES, PLATES AND GROUNDING**
- ALL WIRING SHALL CONSIST OF COPPER CONDUCTORS WITH THERMOPLASTIC INSULATION RATED FOR SIX HUNDRED (600) VOLTS. ALL WIRING INSULATION SHALL BE HEAT AND MOISTURE RESISTANT TYPES THW, THWN, OR THHN FOR INTERNAL AND DRIVE LOCATIONS.
 - MINIMUM CONDUCTOR SIZE SHALL BE NO. 12 AWG FOR ALL POWER CIRCUITS (I.E. RECEPTACLES, LIGHTING, EQUIPMENT POWER, ETC.).
 - ALL SPLICES AND CONNECTIONS SHALL BE MADE IN OUTLET BOXES, JUNCTION BOXES OR EQUIPMENT WHERE ACCESSIBLE.
 - CONDUCTORS SHALL BE PULLED WITHOUT THE USE OF OIL OR GREASE. WIRE PULLING LUBRICANTS WHICH ARE APPROVED FOR USE WITH CONDUCTOR INSULATION MAY BE USED. CARE SHALL BE TAKEN IN PULLING WIRE TO ASSURE THAT MAXIMUM ALLOWABLE PULLING TENSION OF WIRE IS NOT EXCEEDED. WIRING WITH DAMAGED CONDUCTORS OR INSULATION WILL NOT BE ACCEPTED.
 - ALL PLUG-IN DEVICES SHALL BE GROUNDED TYPE. A GROUNDING JUMPER FROM RECEPTACLE TO OUTLET BOX SHALL BE INSTALLED WHERE CONDUIT SYSTEM IS USED FOR GROUND.
 - INSTALL INSULATED GREEN GROUNDING CONDUCTOR (NO. 12 AWG MINIMUM) IN RACEWAYS AS INDICATED ON DRAWINGS AND IN ALL NON-METALLIC RACEWAYS PER NEC.
 - SWITCHES FOR LIGHTING CONTROL SHALL BE ROCKER STYLE WITH.
 - DUPLEX RECEPTACLES SHALL BE INDUSTRIAL GRADE, THREE (3) WIRE GROUNDING, FINDER GROOVE, TWENTY (20) AMP, NEMA 5-20R 125 VAC.
 - PLATES SHALL BE FURNISHED AND INSTALLED FOR ALL WIRING DEVICES, TELEPHONE OUTLETS, JUNCTION BOXES, ETC.
 - PLATES FOR FLUSH MOUNTED DEVICES SHALL BE STAINLESS STEEL. PLATES FOR SURFACE MOUNTED BOXES SHALL BE GALVANIZED STEEL.
- LIGHTING FIXTURES**
- PROVIDE LIGHTING FIXTURES, OF SIZES, TYPES AND RATINGS INDICATED; COMPLETE WITH, BUT NOT LIMITED TO, HOUSINGS, ENERGY-EFFICIENT LAMPS, LAMP HOLDERS, REFLECTORS, ENERGY EFFICIENT BALLASTS, STARTERS AND WIRING. SHIP FIXTURES FACTORY-ASSEMBLED, WITH THOSE COMPONENTS REQUIRED FOR A COMPLETE INSTALLATION. DESIGN FIXTURES WITH CONCEALED HINGES AND CATCHES, WITH METAL PARTS GROUNDED AS COMMON UNIT, AND SO CONSTRUCTED AS TO DAMPEN BALLAST GENERATED NOISE.
 - FLUORESCENT BALLASTS PROVIDED FOR FOUR (4) FOOT T-8 FLUORESCENT LAMPS SHALL BE TWO-LAMP ENERGY SAVING, ELECTRONIC TYPE.
 - INSTALL INTERIOR LIGHTING FIXTURES AT LOCATIONS AS INDICATED, IN ACCORDANCE WITH FIXTURE MANUFACTURER'S WRITTEN INSTRUCTIONS, APPLICABLE REQUIREMENTS OF NEC, NECA'S "STANDARD OF INSTALLATION", NEMA STANDARDS, AND WITH RECOGNIZED INDUSTRY PRACTICES TO ENSURE THAT LIGHTING FIXTURES FULFILL REQUIREMENTS.
 - PROVIDE AND INSTALL ALL LIGHT FIXTURES INDICATED COMPLETE WITH SPECIFIED LAMPS. FLUORESCENT LAMPS SHALL BE 48" 32W, T-8, RAPID START WITH NOMINAL OPERATING TEMPERATURES OF 3,500 K - MINIMUM INITIAL LIGHT OUTPUT OF 2850 LUMENS. COMPACT FLUORESCENT LAMPS SHALL BE 26 WATT COMPACT FLUORESCENT LAMPS SHALL BE HIGH COLOR RENDERING, HIGH EFFICIENCY LAMPS WITH NOMINAL OPERATING TEMPERATURE OF 3,500 K.
 - FASTEN LIGHTING FIXTURES SECURELY TO STRUCTURAL SUPPORTS; AND ENSURE THAT FIXTURES ARE PLUMB AND LEVEL.
 - FLUORESCENT FIXTURES INSTALLED IN LAY-IN CEILINGS SHALL BE SUPPORTED BY ADDITIONAL WIRE SUPPORT AT TWO CORNERS, ATTACHED TO CEILING GRID, AND ANCHORED TO STRUCTURAL MEMBER. THIS ADDITIONAL WIRE SUPPORT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR AND IS NOT CONSIDERED PART OF GENERAL GRID LAYOUT.
 - PROVIDE EQUIPMENT GROUNDING CONNECTIONS FOR INTERIOR LIGHTING FIXTURES AS INDICATED. TIGHTEN CONNECTION TO COMPLY WITH TIGHTENING TORQUES SPECIFIED IN UL STD 486A TO ASSURE PERMANENT AND EFFECTIVE GROUNDS.
 - ALL LIGHT FIXTURES SHALL BE U.L. LISTED.
- FIRE RATED WALL PENETRATIONS**
- PROVIDE U.L. LISTED FIRESTOP SYSTEM SEALANTS AROUND ALL CONDUITS PASSING THROUGH ALL RATED WALLS OR FLOORS IN ACCORDANCE WITH THE U.L. FIRE RESISTANCE DIRECTORY.
 - THE SELECTED SYSTEM MUST BEAR AN APPROVED U.L. PENETRATION SYSTEM NUMBER AND BE INSTALLED IN ACCORDANCE WITH THE SELECTED SYSTEM TAKING INTO ACCOUNT THE CONSTRUCTION AND THE RATING OF THE RATED ASSEMBLY BEING PENETRATED AND THE TYPE OF PENETRATION BEING MADE.
 - THE ELECTRICAL CONTRACTOR SHALL REVIEW ARCHITECTURAL DRAWINGS TO CONFIRM NUMBER AND EXTENT OF ALL FIRE RATED PARTITIONS IN THE FACILITY.
 - APPROVED PRODUCTS:
(1) HILTI CS240
(2) TERMO FRESHIELD
(3) 3M CP-25

ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

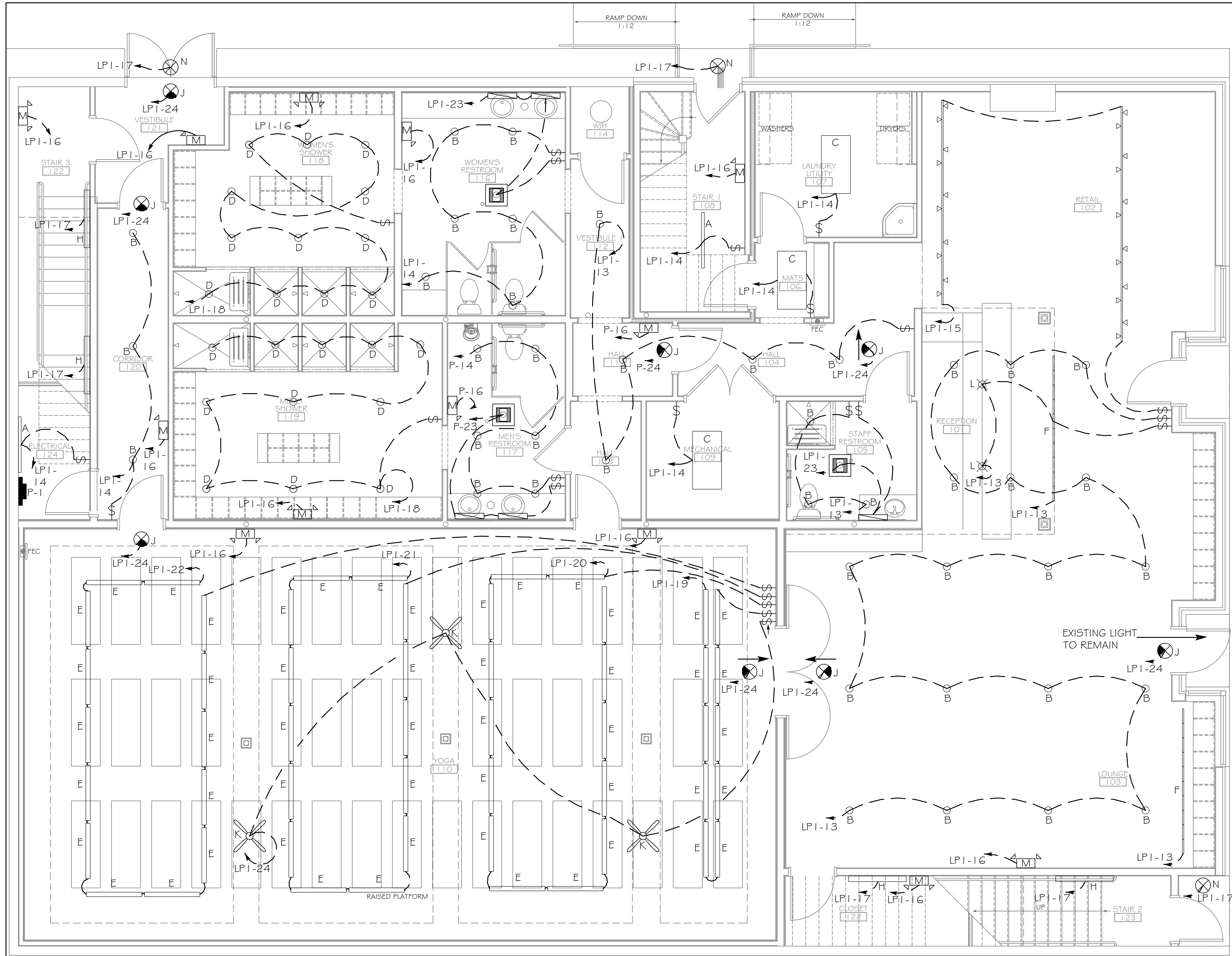
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JOB No: 2175 DATE: 6-7-2013 CHECKED BY: KJK
DRAWN BY: JCT

#	DESCRIPTION	DATE



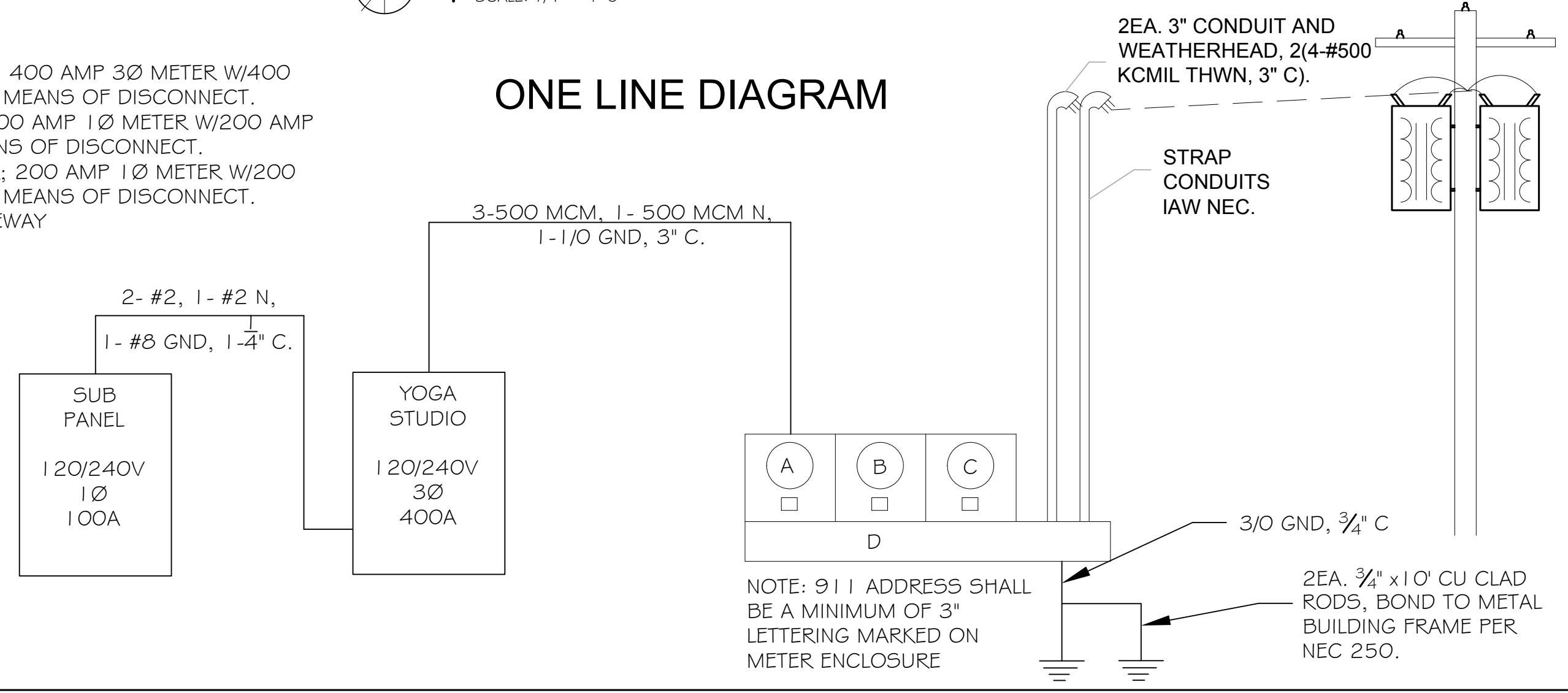
LUMINAIRE SCHEDULE

Symbol	Label	Qty	Catalog Number	Description	Lamp	Watts
—	A	1	Z 1 54T5HO	Z STRIP FOR (1) 54W T5HO LAMP	ONE 54-WATT T5 LINEAR FLUORESCENT HO, HORIZONTAL POS.	56.6
○	B	41	LCP with Acculamp	6" LED RECESSED DOWNLIGHT, 1500 LUMENS 0.65 SPACING 3500K CCT	Acculamp	18.8
□	C	3	2GT8 3 32 A1 2 1/3 ADDE	GT8 GENERAL PURPOSE T8 TROFFER 2'X4' 3 LP T8 #A1 2 LENS 1/3 ELEC	THREE 32-WATT T8 LINEAR FLUORESCENT.	88
○	D	23	LF6N 2/2GDT MVOLT FGLD2 PF	6" LENSED DOWNLIGHT WITH DROP PRISMATIC PLASTIC LENS, PLASTIC FLANGE.	TWO 26-WATT DOUBLE TWIN TUBE COMPACT FLUORESCENT, HORIZONTAL POSITION.	62
—	E	52	Z 2 54T5HO ASR	Z STRIP FOR (2) 54W T5HO LAMPS, ASYMMETRIC WHITE REFLECTOR	TWO 54-WATT T5 LINEAR FLUORESCENT HO, HORIZONTAL POS.	120.6
—	F	40	Ecosense Linear INT	4' LED Undercabinet strip	LED	7.1
△	G	24	Con-Tech	Track Head	50 watt MR-16	50
—	H	4	LITHONIA LIGHTING	4' WALL MOUNTED	32 WATT FLOURESCENT	32
⊙	J	8		EXISTING LIGHT TO REMAIN	EXIT LIGHTS WITH 90 MIN BACK-UP	100
⊗	K	3	PROVIDED BY OWNER		FAN PROV. BY OWNER	100
⊗	L	2	PROVIDED BY OWNER		PENDANT LIGHT	20
⊕	M	11			EMERGENCY EXIT LIGHT WITH 90 MIN BACK-UP	100
⊗	N	2	BEGA-US NO. 2893P		EXTERIOR LIGHT	32

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

- A. YOGA STUDIO; 400 AMP 3Ø METER W/400 AMP BREAKER AS MEANS OF DISCONNECT.
- B. RESIDENCE; 200 AMP 1Ø METER W/200 AMP BREAKER AS MEANS OF DISCONNECT.
- C. HOUSE METER; 200 AMP 1Ø METER W/200 AMP BREAKER AS MEANS OF DISCONNECT.
- D. NEMA 3R WIREWAY

ONE LINE DIAGRAM



#	DESCRIPTION	DATE

PLUMBING FIXTURE SCHEDULE

FIXTURE	DESCRIPTION
WATER CLOSET - "WC"	ALTO T37-T60
LAVATORY - "LAV"	KOHLER K2196
UTILITY SINK - "US"	MUSTEE 24"x20" STRUCTURAL THERMOPLASTIC FLOOR-MOUNT UTILITY SINK
WATER HEATER - "WH"	80 GALLON DUAL ELEMENT
FLOOR DRAIN - "FD"	4" ZURN # ZN-415 W/TRAP PRIMER
BACK-FLOW PREVENTER	EQUAL TO WATTS NO. 909QT; CONFIRM MODEL # IS APPROVED BY LOCAL AUTHORITY PRIOR TO INSTALLATION. ASSE 1013 VERTICAL INSTALLATION APPROVED REDUCED PRESSURE ZONE BACK-FLOW PREVENTER. PROVIDE WITH STRAINER.

LEGEND

- C.W. - COLD WATER
- H.W. - HOT WATER
- T.W.H. - TEMPERED HOT WATER

GENERAL NOTES:

- A. PLUMBING CONTRACTOR IS TO FURNISH AND INSTALL ALL FIXTURES FOR A COMPLETE OPERATING SYSTEM. THE SYSTEM SHALL INCLUDE HOT AND COLD WATER PIPING, SEWER AND VENT PIPING, INSULATION, WATER HEATER, HANGERS, VALVES, SUPPORTS WITHOUT ANY RESTRICTIONS TO VOLUME.
- B. ALL HANDICAP PLUMBING FIXTURES SHALL BE INSTALLED TO COMPLY WITH STATE AND LOCAL CODES. P.C. SHALL FURNISH AND INSTALL CODE COMPLIANT TRAP WRAP ON ALL EXPOSED WATER & WASTE LINES FOR ALL HANDICAP ACCESSIBLE LAVATORIES.
- C. CONTRACTOR IS TO FIELD VERIFY ALL EXISTING UTILITY LOCATIONS, ELEVATIONS AND SIZES PRIOR TO COMMENCING ANY WORK. PLUMBER TO VERIFY SLAB CONDITIONS (POST TENSION OR CONVENTIONAL) BEFORE COMMENCING WORK. WHERE A RENOVATION IS TO OCCUR; THE PLUMBING CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF DEMOLITION REQUIRED, PRIOR TO SUBMITTING BID.
- D. PLUMBING CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS TO THE GENERAL CONTRACTOR PRIOR TO FINAL PAYMENT.
- E. ALL WORK SHALL BE INSTALLED TO COMPLY WITH LOCAL AND STATE PLUMBING CODE REQUIREMENTS, AND PER LOCAL HEALTH DEPARTMENT REQUIREMENTS.
- F. THE HOT WATER PRESSURE RELIEF MUST BE CONNECTED EITHER INDIRECTLY TO THE SANITARY SEWER OR DIRECTLY OUTSIDE.
- G. TEST ALL PIPING AT REQUIRED PRESSURE.
- H. ALL PLUMBING SHALL BE CLOSELY COORDINATED WITH STRUCTURAL SYSTEM, MECHANICAL SYSTEM AND ELECTRICAL TO INSURE NO TRADES WILL CONFLICT WITH EACH OTHER.
- I. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DOORS, WINDOWS, WALLS, FIXTURES, ETC.
- J. ALL WATER MAINS AND PIPING NOT SHOWN FOR CLARITY, ALL LOCATIONS SHALL BE FIELD VERIFIED.
- K. ALL ELECTRICAL, MECHANICAL & PLUMBING PENETRATING FIRE PARTITIONS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.)

WASTE AND VENT PIPING:

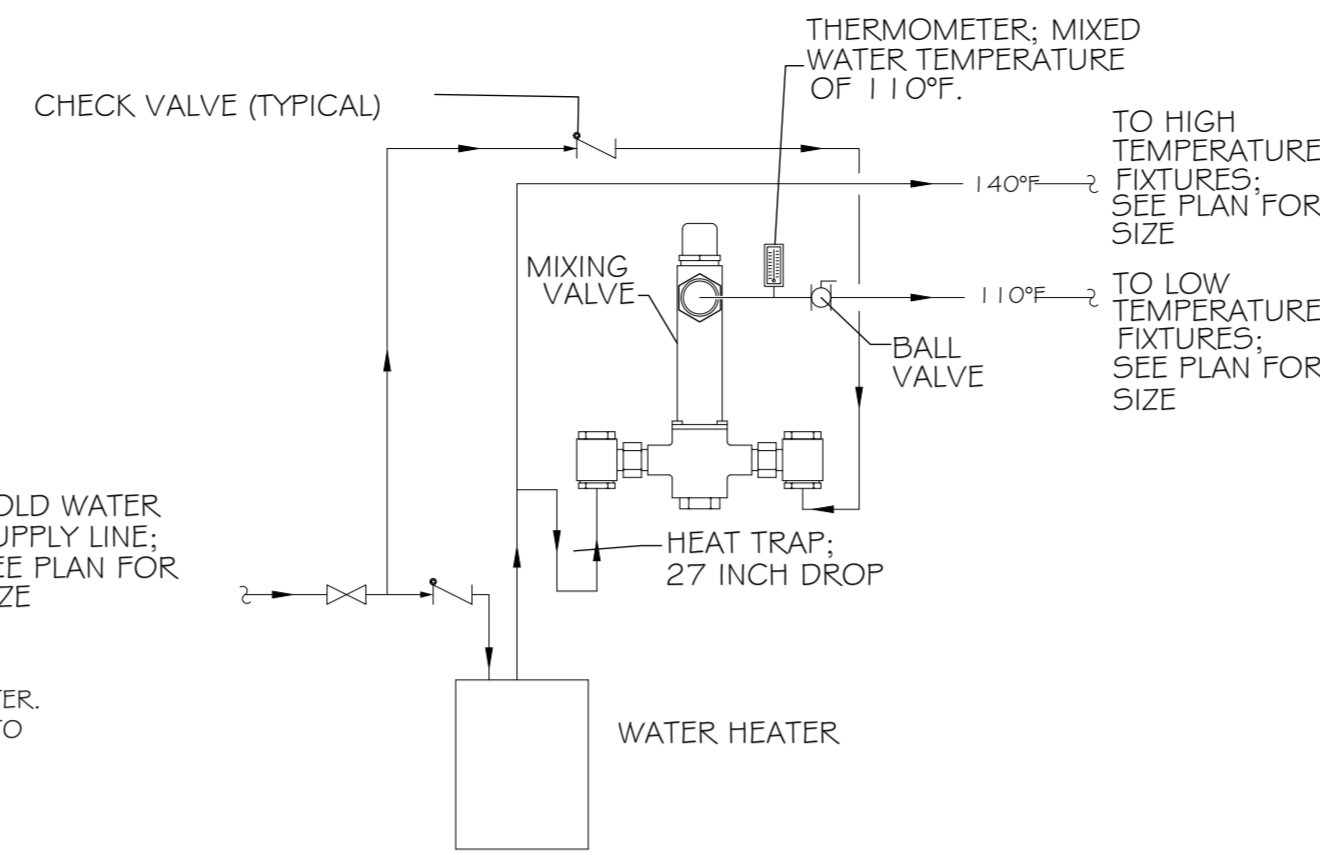
- A. PLUMBING CONTRACTOR SHALL USE SERVICE WEIGHT CAST IRON PIPE WITH BELL AND SPIGOT ENDS AND ONE PIECE NEOPRENE INSERT TYPE GASKET. USE PVC SCHEDULE 40 OR ABD DWV PIPES AND FITTINGS WHERE PERMITTED BY CODE. ALL PIPING ABOVE GRADE MAY HAVE HUBLESS FITTINGS. PLASTIC PIPING SHALL NOT BE USED IN RETURN AIR PLENUM. COORDINATE THIS REQUIREMENT WITH HVAC CONTRACTOR PRIOR TO INSTALLATION.
- B. CONTRACTOR SHALL FIELD VERIFY INVERT ELEVATIONS OF ALL NEW AND EXISTING SANITARY SEWERS PRIOR TO ROUGH-IN.
- C. NEW SEWERAGE LINES 3-INCH AND SMALLER SHALL BE SLOPED 1/4" PER FOOT AND LINES 4-INCH AND LARGER SHALL BE SLOPED 1/8" PER FOOT.
- D. ELEVATION OF ALL FLOOR DRAINS SHALL BE HELD 1/2" BELOW FINISH FLOOR TILE.
- E. ALL CLEANOUTS SHALL BE INSTALLED FLUSH WITH FINISHED GRADE/FINISHED FLOORS.
- F. HOLD ALL PLUMBING VENTS A MINIMUM OF 10'-0" FROM OUTSIDE AIR INTAKES. WHERE STATE OR LOCAL CODES REQUIRE MORE SEPARATION, P.C. SHALL OFFSET TO MEET THE MORE STRINGENT CODE ON HVAC EQUIPMENT. COORDINATE LOCATION WITH M.C.

WATER PIPING:

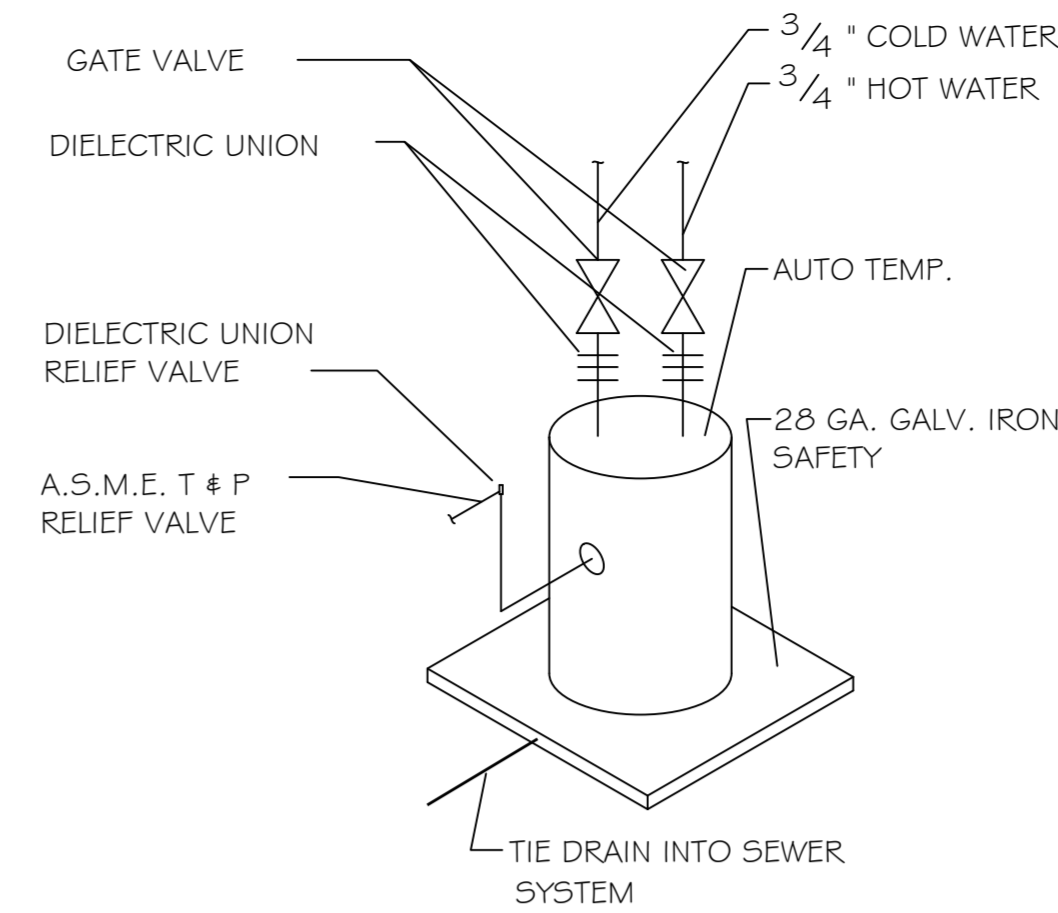
- A. POTABLE WATER PIPING AND FITTINGS ABOVE GRADE SHALL BE ASTM B88 COPPER WATERTUBE, TYPE "L". HARD DRAWN WITH COPPER PRESSURE TYPE FITTINGS, ANSI B16.22. THE JOINTS SHALL BE SOLDERED TYPE USING ASTM B32, ALLOY GADE 95A (95-5) SOLDER. DOMESTIC WATER PIPING BELOW GRADE SHALL BE TYPE "M" SOFT TEMPERED COPPER.
- B. INSTALL 1" FOAM RUBBER INSULATION ON ALL HOT AND COLD WATER PIPING BELOW AND ABOVE GRADE. ALL JOINTS IN INSULATION ARE TO BE TAPED.
- C. ALL DOMESTIC WATER PIPING SHALL BE DISINFECTED PRIOR TO USE BY BUILDING OCCUPANT. PLUMBING CONTRACTOR SHALL DISINFECT PER REQUIREMENTS OF LOCAL HEALTH DEPT., STATE/LOCAL PLUMBING CODE.
- D. ALL PLUMBING HOSE BIBBS OR VALVES WITH THREADED CONNECTIONS SHALL BE PROVIDED WITH VACUUM BREAKERS AND APPROVED MEANS OF BACK-FLOW PREVENTION AS REQUIRED BY STATE AND LOCAL CODES.
- E. PROVIDE SHUT-OFF VALVES ON ALL EQUIPMENT AND STOP COCKS IN HOT AND COLD WATER PIPING FIXTURES.
- F. PLUMBING CONTRACTOR SHALL PROVIDE DIELECTRIC UNIONS AT ALL PIPING CONNECTIONS WHERE DISSIMILAR PIPING IS JOINED.
- G. ALL HOT AND COLD WATER, WASTE, AND VENT PIPING TO BE SUPPORTED PER LOCAL PLUMBING CODE.
- H. PROVIDE TEMPERED HOT WATER DEVICES, SET TO 110° F.
- I. PROVIDE AND INSTALL A 1/8 HP CIRCULATING PUMP WITH TIMER FOR THE HOT WATER SYSTEM.

NOTE: WATER HEATER TEMPERATURE TO BE SET AT 140° F. PROVIDE TEMPERING VALVE (SET @ 110° F) AS SHOWN FOR ALL HAND SINK & SHOWER HOT WATER SUPPLIES.

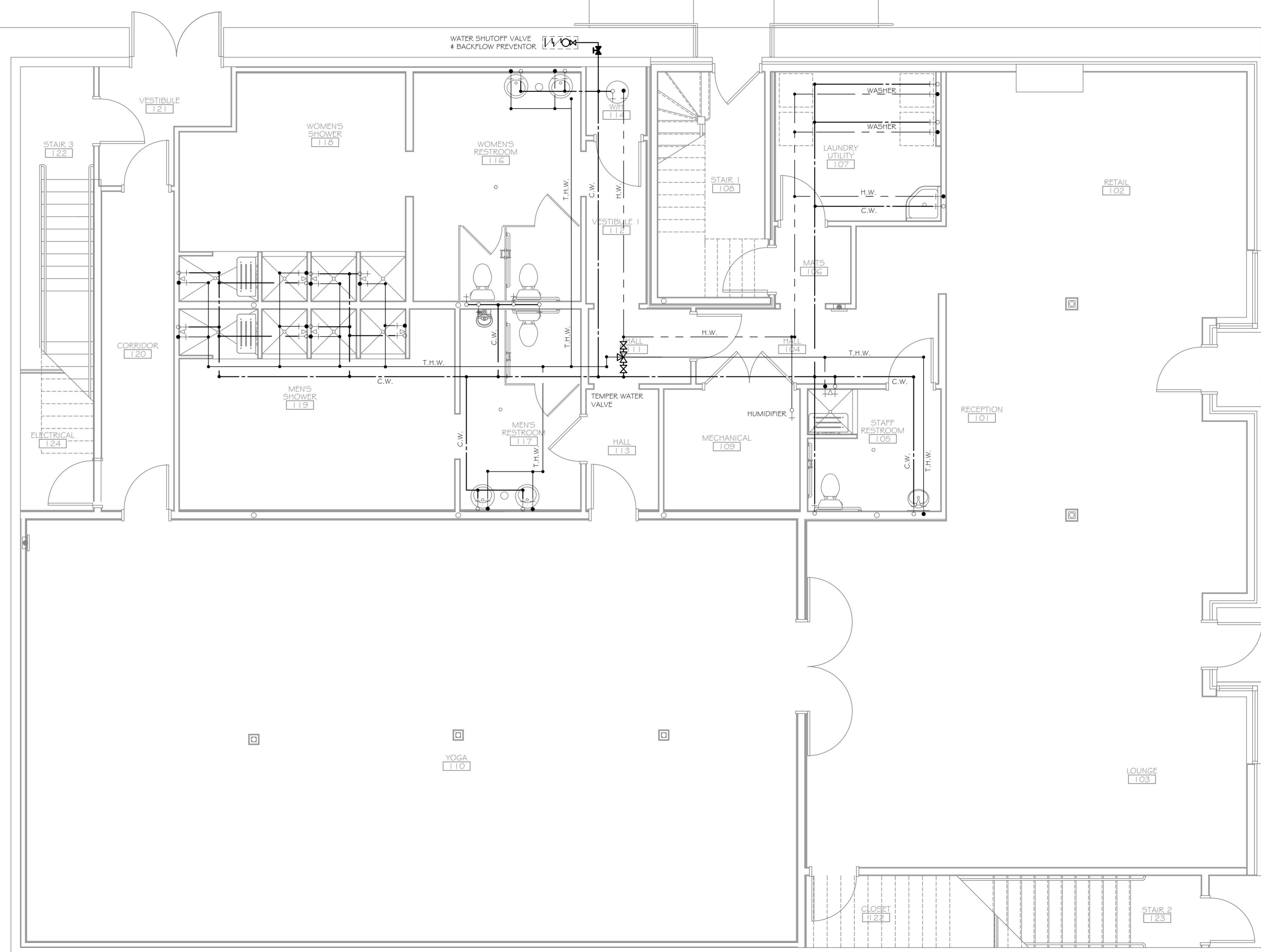
- NOTES
1. HEAT TRAP IS NOT REQUIRED WHERE MIXING VALVE IS INSTALLED BELOW STORAGE TANK OR WATER HEATER.
 2. SET THE MIXING VALVE TO THE SYSTEM ACCORDING TO MANUFACTURER'S INSTRUCTIONS.



TEMPERED WATER VALVE
SCALE: NOT TO SCALE



TYPICAL WATER HEATER
SCALE: NOT TO SCALE



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

PLUMBING SITE NOTES:

1. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO FIELD VERIFY ALL SITE CONDITIONS PRIOR TO STARTING ANY PHASE OF CONSTRUCTION. ANY CHANGES OR COST NOT SHOWN ON THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT, ENGINEER.
2. ALL EXISTING UTILITIES SHOWN ON THIS PLAN ARE ASSUMED TO BE CORRECT. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO PROPERLY VERIFY ALL UNDERGROUND UTILITIES.
3. KEEP ALL CUTTING AND PATCHING TO A MINIMUM.
4. IT IS RECOMMENDED THAT THE SUBCONTRACTOR ARRANGE A PRE-JOB CONFERENCE WITH THE CONSTRUCTION SUPERVISOR FOR REVIEW & CLARIFICATION PRIOR TO STARTING ANY WORK.

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NEW ORLEANS, LA 70118

#	DESCRIPTION	DATE

REVISIONS	DATE

PLUMBING WATER PLAN

JOB No: 2175 DATE: 6-7-2013 CHECKED BY: KJK
DRAWN BY: JCT

SHEET No: 13 of 14

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