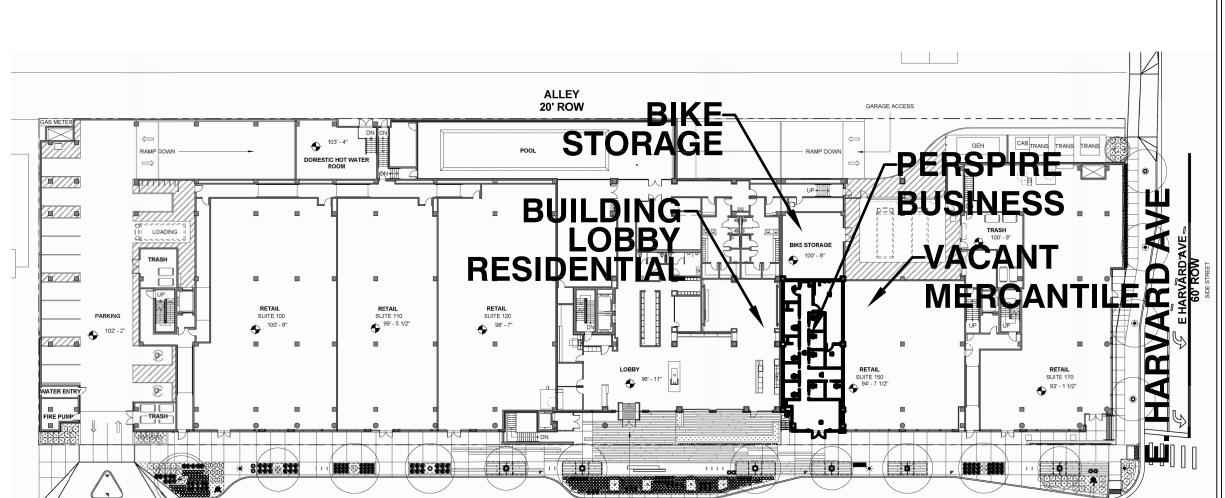
UNLESS EXPRESSLY NOTED OTHERWISE. G.C. SHALL BE RESPONSIBLE FOR PURCHASE AND INSTALLATION OF ALL COMPONENTS WITHIN PLAN SET.



10LB TYP ABC FIRE EXTINGUISHER RECESSED CABINET WITH SIGNAGE INSTALLED. FINAL LOCATIONS AND QUANTITIES BY FIRE MARSHALL.

GENERAL CONTRACTOR SHALL VISIT SITE AND ENSURE ALL BIDDING SUBCONTRACTOR'S VISIT SITE PRIOR TO BID. G.C. WILL BE RESPONSIBLE FOR ALL EXISTING CONDITIONS MEETING OR EXCEEDING THOSE DEPICTED WITH PLANS. WHERE EXISTING CONDITIONS ARE NOT AS SHOWN, G,C, SHALL INCLUDE IN BID THE NECESSARY LABOR AND MATERIALS TO ENSURE THE EXISTING SHELL MEETS OR EXCEEDS THE INTENT OF THE CONSTRUCTION PLANS. ALL EXISTING WALLS TO BE RE-USED. EXTERIOR AND OR DEMISING, SHALL BE INSULATED AND DRY WALLED WITH A MIN OF 5/8" TYPE X OR AS LISTED PER PLANS AND BE FINISHED EQUIVALENT TO NEW DRYWALL AND BE PAINT READY. ROOF SHALL HAVE ACCEPTABLE MINIMUM INSULATION INSTALLED OR G.C. SHALL INSTALL.

ALL SUPPLEMENTAL WORK REQUIRED TO ENSURE EXISTING EXTERIOR / INTERIOR / INSULATION TO FINISH TENANT SHELL SHALL BE PROVIDED AS A BID ALTERNATE COST SEPARATED ON G.C. BID.



S. UNIVERSITY BLVD

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL CONSTRUCTION WASTE / DEBRIS THROUGHOUT CONSTRUCTION INCLUDING ONE WEEK AFTER SUBSTANTIAL COMPLETION FOR POST CONSTRUCTION EQUIPMENT DELIVERIES.

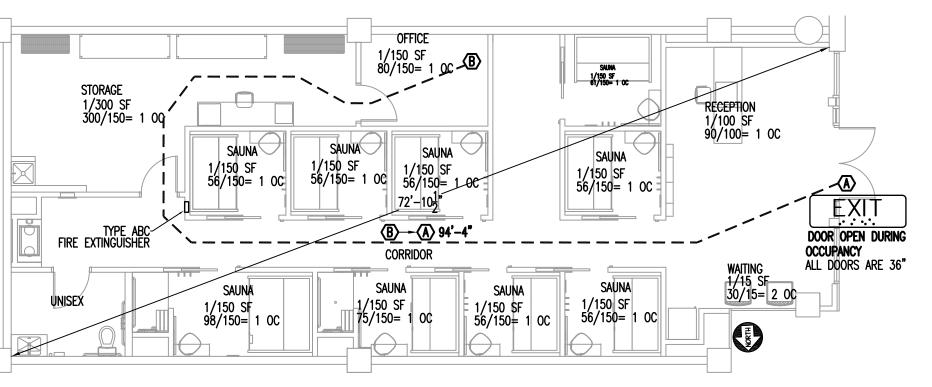
OCCUPANCY BY AREA USE = 14 OCCUPANTS OCCUPANCY BY AREA = 1773 SF / 150 = 12 OCCUPANTSEGRESS ANALYSIS 1005.1 SPRINKLED

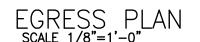
STAIRWAYS (N/A) 14 X 0.3 = 4.2 REQUIRED OTHER EGRESS COMPONENTS 14 X 0.2 = 2.8"

1 EXITS REQUIRED UNDER 100 FEET 1 PROVIDED

AS BUSINESS OCCUPANCY, PANIC HARDWARE IS NOT REQUIRED. NORMALLY OPEN FRONT DOOR TO HAVE ACCESSIBLE PUSH BAR. SECONDARY EXITS MAY HAVE PANIC PUSH HARDWARE OR STANDARD ACCESSIBLE LEVER HANDLES THAT OPEN WITH NO SPECIAL KNOWLEDGE.

LOWEST LEVEL OF 5.356.87'





- 1. GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR A PROFESSIONALLY COMPLETE TENANT IMPROVEMENT WITHIN THE ADDRESS LISTED ON THESE PLANS.
- 2. ALL PRINTED INFORMATION CONTAINED IN THESE CONSTRUCTION DRAWINGS ARE THE SOLE PROPERTY OF PERSPIRE. COPIES ARE TO BE USED FOR THE EXCLUSIVE PURPOSE OF CONSTRUCTING SITE SPECIFIC PERSPIRE FACILITIES. ANY OTHER USE MAY VIOLATE THE COPYRIGHT LAWS OF
- 3. THE DESIGNER, FCDADSON, FRANCHISEE, OR PERSPIRE ASSUME NO RESPONSIBILITY OR LIABILITY FOR THE USE OF THESE DOCUMENTS FOR ANY PURPOSE OTHER THAN SPECIFICALLY AUTHORIZED BY THE AFORE MENTIONED AND SIGNED AND SEALED FOR THE SPECIFIC LOCATION IN THE STATE SHOWN ON THE DRAWINGS AND SEAL.
- 4. ALL CONSTRUCTION WORK, INCLUDING BUT NOT LIMITED TO, PLUMBING, MECHANICAL AND ELECTRICAL, WORKING CONDITIONS, MATERIALS AND METHODS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE STATE AND LOCAL BUILDING CODES.
- 5. PRIOR TO SUBMITTING BIDS OF ANY TYPE. THE CONTRACTOR SHALL VISIT THE SITE TO BECOME THOROUGHLY FAMILIAR, NOT ONLY WITH THE PROPOSED SCOPE OF WORK, BUT ALSO WITH THE SPECIFIC REQUIREMENTS AS TO PROCEDURES THE FRANCHISEE OR THE LANDLORD EXPECTS THE CONTRACTOR(S) TO FOLLOW DURING CONSTRUCTION. THIS REFERS TO ACCESS TO THE SPACE, TRASH REMOVAL DURING CONSTRUCTION, PARKING OF CONSTRUCTION VEHICLES, DELIVERIES, STORAGE, STAGING AREAS, AND ANY OTHER ITEMS NECESSARY TO COMPLY WITH ALL ASPECTS OF THE LEASE AND TENANT OBLIGATIONS.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF FCDADSON AND SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
- CAREFULLY REVIEW LOCATION AND CONDITIONS OF ALL UTILITIES TO BE FURNISHED FOR THE SPACE AND VERIFY LOCATIONS FURNISHED BY THE LANDLORD/UTILITY COMPANIES AS SHOWN ON
- ANY DETAILS OR NOTES REQUIRING FIELD VERIFICATION BY THE CONTRACTOR ARE TO BE DONE DURING THE BID PROCESS. DISCREPANCIES FOUND AFTER THE GENERAL CONTRACTOR IS SELECTED WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND CORRECTED AT THE GENERAL CONTRACTOR'S EXPENSE.
- SPECIAL ATTENTION SHALL BE GIVEN TO EXISTING AREAS SURROUNDING THE EXTERIOR OF THE PROJECT SPACE. ALL CONSTRUCTION AND INSTALLED EQUIPMENT, WALKS, AND LANDSCAPED AREAS SHALL BE PROTECTED AND GUARDED BY BARRIERS OR OTHER MEANS NECESSARY TO PROTECT AREAS FROM DAMAGE DURING CONSTRUCTION. ALL AREAS DAMAGED WILL BE RESTORED TO THEIR ORIGINAL CONDITION PRIOR TO FINAL PAYMENT AT THE SOLE EXPENSE OF THE GENERAL CONTRACTOR
- 10. INSTALL SAFETY BARRIERS DURING CONSTRUCTION AS NECESSARY TO PROTECT THE PUBLIC FROM INJURY AND ACCESS TO THE SITE. REVIEW SPECIFIC REQUIREMENTS WITH THE LANDLORD'S TENANT COORDINATOR PRIOR TO BEGINNING CONSTRUCTION.
- 11. TEMPORARY SERVICES REQUIRED DURING CONSTRUCTION SHALL BE AT THE SOLE EXPENSE OF THE CONTRACTOR, UNLESS OTHERWISE AGREED UPON.
- 12. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO SECURE AND PROTECT FROM DAMAGE, ALL ITEMS ON THE PREMISES. INCLUDING, BUT NOT LIMITED TO; CONSTRUCTION MATERIALS, LIGHT FIXTURES, FOOD SERVICE EQUIPMENT, EQUIPMENT, AND THE FURNITURE PACKAGE. AFTER RECEIPT ON JOB SITE, ANY LOST, STOLEN OR ITEMS DAMAGED LATER BY SUBCONTRACTORS OR OTHERS IN THE BUILDING, SHALL BE REPLACED OR REPAIRED AT THE GENERAL CONTRACTOR'S SOLE EXPENSE. THE GENERAL CONTRACTOR SHOULD NOTIFY AND RELATE THIS INFORMATION AND REQUIREMENT TO ALL TRADES AND SUBCONTRACTORS ON SITE
- 13. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO RECEIVE AND UNLOAD PRODUCT AND MATERIALS SUPPLIED BY OTHERS AT THE JOB SITE. IMMEDIATELY INSPECT DELIVERED PRODUCTS AND EQUIPMENT FOR SHIPPING DAMAGE, INCLUDING CONCEALED DAMAGE PRIOR TO SHIPPER LEAVING PREMISES. ANY PRODUCT OR MATERIALS FOUND TO BE DAMAGED AFTER THE SHIPPER HAS LEFT THE PREMISES, WILL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO REPLACE. RECORD ANY SHORTAGES, DAMAGED OR DEFECTIVE MATERIALS. SAVE ALL PACKING OF DAMAGED PRODUCTS UNTIL CLAIMS ARE FINALIZED. IMMEDIATELY NOTIFY FCDADSON, FRANCHISEE AND PERSPIRE PM OF ANY DAMAGED MATERIALS RECEIVED. IMMEDIATELY FILE A DAMAGE CLAIM WITH THE APPROPRIATE SHIPPING COMPANY.

- 14. THE GENERAL CONTRACTOR SHALL MAINTAIN A CURRENT AND COMPLETE SET OF CONSTRUCTION DOCUMENTS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION FOR USE BY THE TRADES AND SHALL PROVIDE SUBCONTRACTORS WITH CURRENT CONSTRUCTION DOCUMENTS
- 15. DRAWINGS MAY NOT ALWAYS BE TO SCALE. NOTED DIMENSIONS SHALL TAKE PRECEDENCE.
- 16. DIMENSIONS ON CONSTRUCTION DRAWINGS ARE TO THE FACE OF FINISH, UNLESS OTHERWISE NOTED. THE GENERAL CONTRACTOR SHALL NOT SCALE THE DRAWINGS.
- 17. ALL NOTES THROUGHOUT THESE CONSTRUCTION DRAWINGS APPLY TO ALL SHEETS WHERE APPLICABLE.
- 18. WORK LISTED, SHOWN, OR IMPLIED ON THE CONSTRUCTION DRAWINGS SHALL BE SUPPLIED BY THE GENERAL CONTRACTOR EXCEPT WHERE OTHERWISE NOTED. THE GENERAL CONTRACTOR SHALL CLOSELY COORDINATE HIS WORK WITH THAT OF OTHER CONTRACTORS OR VENDORS TO ASSURE THAT SCHEDULES ARE MET AND THAT THE WORK IS DONE IN CONFORMANCE TO MANUFACTURER'S REQUIREMENTS.
- 19. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED.
- 20. ALL CHANGES TO THESE DOCUMENTS MUST BE APPROVED BY PERSPIRE AND FCDADSON.
- 21. NO MATERIAL SUBSTITUTIONS WILL BE PERMITTED UNLESS WRITTEN AUTHORIZATION HAS BEEN GRANTED BY FCDADSON OR PERSPIRE. ANY MATERIAL SUBSTITUTIONS WITHOUT AUTHORIZATION WILL SUBJECT THE GENERAL CONTRACTOR TO REPLACEMENT OF SUCH SUBSTITUTED MATERIALS WITH APPROVED MATERIALS AT THE SOLE EXPENSE OF THE GENERAL CONTRACTOR.
- 22. THE SUBCONTRACTORS SHALL REMOVE RUBBISH AND WASTE MATERIALS ON A REGULAR BASIS AND SHALL EXERCISE STRICT CONTROL OVER JOB CLEANING TO PREVENT DIRT, DEBRIS OR DUST FROM AFFECTING THE FINISHED INTERIOR OR EXTERIOR OF THE JOB SITE.
- 23. ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM CERTIFICATE OF OCCUPANCY FRANCHISEE MAY WITHHOLD FINAL PAYMENT UNTIL GENERAL CONTRACTOR SUPPLIES FRANCHISEE WITH A WARRANTY LETTER AND SUBCONTRACTORS LIEN WAIVERS.
- 24. GENERAL CONTRACTOR SHALL HIRE A PROFESSIONAL CLEANING COMPANY FOR FINAL CLEAN UP INCLUDING STRIPPING AND WAXING OF VCT/SVT AND CLEANING OF LVP/LVT PER MANUFACTURER BEFORE TURNING COMPLETED STORE OVER TO FRANCHISEE.
- 25. GENERAL CONTRACTOR AND HIS JOB SUPERVISOR SHALL TEST ALL EQUIPMENT FOR PROPER OPERATION, IN THE PRESENCE OF THE FRANCHISEE, BEFORE TURNING COMPLETED STORE OVER TO
- 26. GENERAL CONTRACTOR SHALL PROVIDE THE FRANCHISEE WITH TWO (2) COPIES OF A MAINTENANCE MANUAL UPON COMPLETION OF THE STORE. THE FRANCHISEE MAY CHOOSE TO WITHHOLD FINAL PAYMENT SHOULD THE GENERAL CONTRACTOR FAIL TO PROVIDE A MAINTENANCE
- 27. TEN DAYS BEFORE CONSTRUCTION COMMENCEMENT, THE GENERAL CONTRACTOR SHALL PROVIDE FCDADSON WITH A DETAILED AND COMPLETE CONSTRUCTION SCHEDULE. THE SCHEDULE SHOWING ALL TRADES WITH STARTING AND COMPLETION DATES. A COMPLETE LIST OF ALL SUBCONTRACTORS MUST ALSO BE INCLUDED WITH THE SCHEDULE. THE GENERAL CONTRACTOR IS TO NOTIFY ALL PARTIES IN RECEIPT OF PROJECT SCHEDULE IF ANY CHANGES OCCUR WHICH AFFECT THE COMPLETION DATE. FAILURE TO COMPLETE THE PROJECT AS SCHEDULED, MAY RESULT IN PENALTIES INCURRED BY THE GENERAL CONTRACTOR REGARDING FINAL PAYMENT.
- 28. GENERAL CONTRACTOR TO SCOPE EXISTING SANITARY SEWER FOR VERIFICATION OF LINE CONDITION FROM THE TENANT SPACE TO THE EXTERIOR MAIN LATERAL AS REQUIRED. GENERAL CONTRACTOR TO PROVIDE VIDEO DOCUMENTATION OF EXISTING CONDITIONS TO FCDADSON.

	DRAWING INDEX
1.00	COVER SHEET
1.01	EXISTING ACCESSIBLE PARKING
1.02	LIFE SAFETY PLAN
1.03	FRAMING PLAN
1.04	FRAMING DETAILS
1.05	ACCESSIBLE DETAILS
1.06	ACCESSIBLE FLOOR PLAN
1.07	REFLECTED CEILING PLAN
1.08	CEILING DETAILS
1.09	WALL AND FLOOR FINISH PLAN
1.10	FURNITURE PLAN
1.11	INTERIOR ELEVATIONS
1.12	INTERIOR ELEVATIONS
1.13	TOILET ROOM PLANS / DETAILS AND ELEVATIONS
1.14	ARCHITECTURAL SPECIFICATION
2.01	ELECTRICAL LIGHTING PLAN
2.02	ELECTRICAL POWER PLAN
2.03	ELECTRICAL PANELS
2.03A	ELECTRICAL ONE LINE DIAGRAM
2.04	ENERGY COMPLIANCE
3.01	HVA/C PLAN AND SCHEDULES
3.02	HVA/C DETAILS
4.01	SANITARY SEWER PLAN AND SCHEDULES
4.02	DOMESTIC WATER PLAN
4.03	PLUMBING DETAILS
4.04	NOT USED
4.05	PLUMBING SPECIFICATION
5.01	SCHEMATIC SPRINKLER (DIFFERED SUBMITTAL)

ROVEMENT	
	- Innii
	S/ONAL ENDOR
C SPRINKLER (DIFFERED SUBMITTAL)	3 8 12 . 2 625
SPECIFICATION	36587 g
)	19 Comments
DETAILS	SOOREGIS?
WHEN I BUY	ALL CONTRACTOR OF THE PARTY OF

TENANT IMPROVEMENT

OCCUPANCY	BUSINESS
CONSTRUCTION TYPE	TYPE 11B SPRINKLED
BUILDING HEIGHT	1 STORY
FIRE ALARM	YES
INTERIOR FINISH CEILING HEIGHT	11 FEET
AREA GROSS/NET	1860 / 1773 SQUARE FEET
TOTAL OCCUPANCY	14 OCCUPANTS
EXIT(S) WIDTH PROVIDED	36" MINIMUM
MINIMUM EXIT(S) REQUIRED	1
EXIT(S) PROVIDED	1

PLUMBING FIXTURE REQUIREMENTS

WATER CLOSETS/LAVATORIES REQUIRED 1 UNISEX |WATER CLOSETS/ LAVATORIES- 1 UNISEX PROVIDED.

|MOP SINK / 0-REQUIRED / 1-PROVIDED

HI-LOW DRINKING FOUNTAIN / NOT REQUIRED / PROVIDED - N/A A FILTERED WATER DISPENSER IS INSTALLED AT ACCESSIBLE HEIGHT

2020 NATIONAL ELECTRICAL CODE

2021 INTERNATIONAL BUILDING CODE (IBC)

2021 INTERNATIONAL EXISTING BUILDING CODE (IEBC)

2021 INTERNATIONAL PLUMBING CODE (IPC)

2021 INTERNATIONAL MECHANICAL CODE (IMC)

2021 INTERNATIONAL FUEL GAS CODE (IFGC)

2021 INTERNATIONAL FIRE CODE (IFC) 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)

2022 DENVER BUILDING AND FIRE CODE (DBC OR DBCA)

REFERENCE STANDARDS PER 2021 ICC CODES CURRENT ADA AND 2017 ANSI A117.1

ALL INTERIOR FINISHES AND INTERIOR FLOOR FINISHES SHALL COMPLY | WITH THE CURRENT BUILDING CODE.

PREVIOUSLY A EXISTING FIRST GENERATION SHELL SPACE TO BE FINISHED INTO A PERSPIRE SAUNA STUDIO - BUSINESS OCCUPANCY. EXISTING HVAC WITH NEW DISTRIBUTION. NEW PARTITION WALLS, FLOORING AND FINISHES. EXISTING ELECTRICAL

POWER WITH NEW DISTRIBUTION. NEW LIGHTING. EXISTING SANITARY SEWER AND DOMESTIC WATER STUBS TO BE RE-USED WITH NEW DISTRIBUTION AND PLUMBING CONNECTIONS.

QUESTIONS



SUITE 2 GREENVILLE, WI 54942 Phone: 920-757-1486 FAX: 920-757-1492

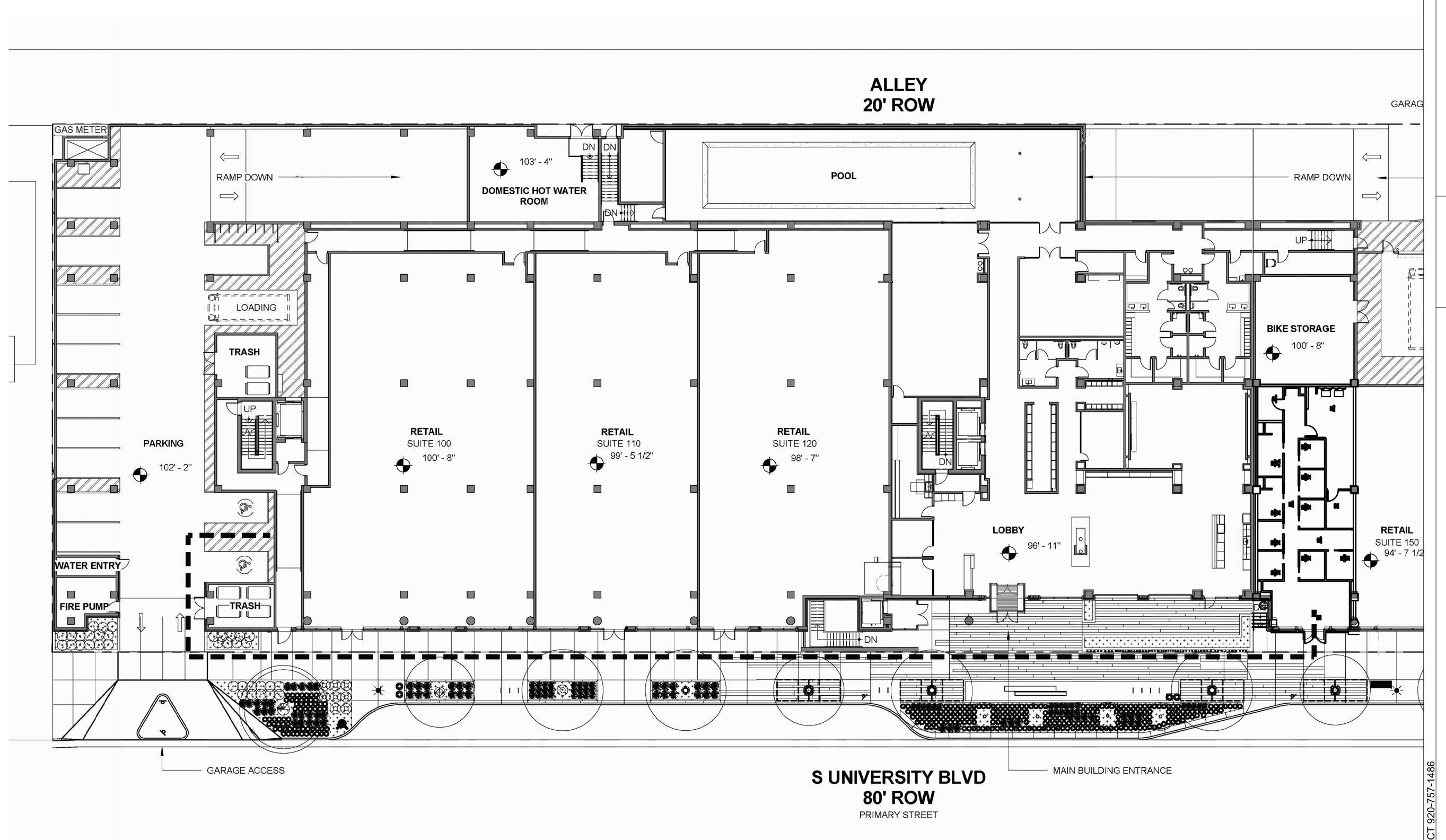
8

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BID AND REPORT ANY DISCREPANCIES BACK TO OWNER. G.C. SHALL COORDINATE ALL SUB CONTRACTORS AND ENSURE A COMPLETE FULLY CODE COMPLIANT AND PROFESSIONALLY FINISHED TENANT SPACE. ISSUED / REVISIONS:

9

CHECKED BY: Staff DRAWN BY: Staff SEPTEMBER 12, 2023 SCALE: PER PLAN PROJECT No.: PSS 2401 **Ⅲ** SHEET TITLE

COVER SHEET



CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BID AND REPORT ANY DISCREPANCIES BACK TO OWNER. G.C. SHALL COORDINATE ALL SUB CONTRACTORS AND ENSURE A COMPLETE FULLY CODE COMPLIANT AND PROFESSIONALLY FINISHED TENANT SPACE. ISSUED / REVISIONS:



PERSPIR SAUNA STUDIO 2450 SOUTH UNIVERS SUITE D1 DENVER, CO 80210

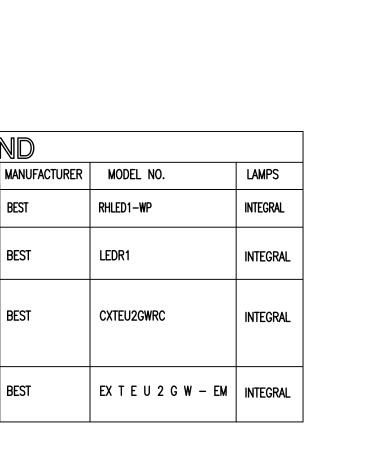
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EXISTING PARKING FOR REFERENCE ONLY

CHECKED BY: Staff
DRAWN BY: Staff
DATE: SEPTEMBER 12, 2023 DATE: SEPTEMBER
SCALE: PER PLAN
PROJECT No.: PSS 2401

SHEET TITLE

EXISTING
ACCESSIBLE
SITE PLAN



LEDR1

EGRESS ANALYSIS 1005.1

SPRINKLED

EMERGENCY LIGHTING LEGEND

RH EXTERIOR REMOTE EMERGENCY HEAD

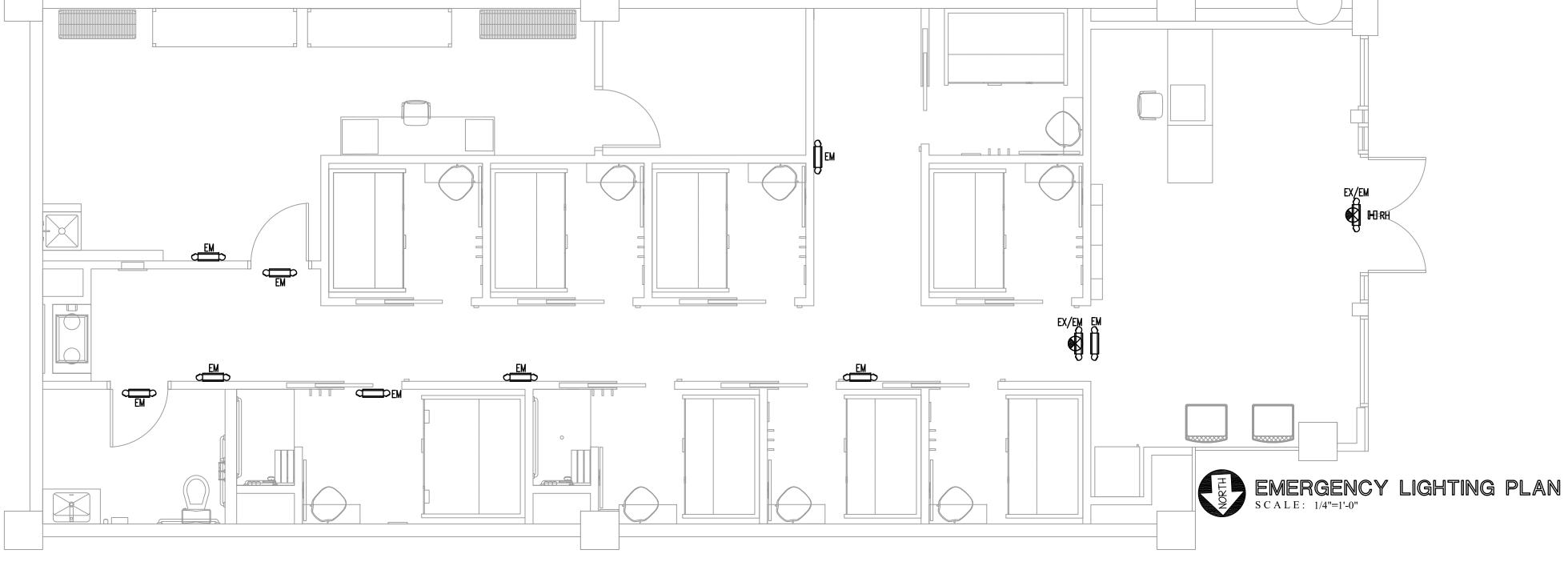
EXIT LIGHT FIXTURE

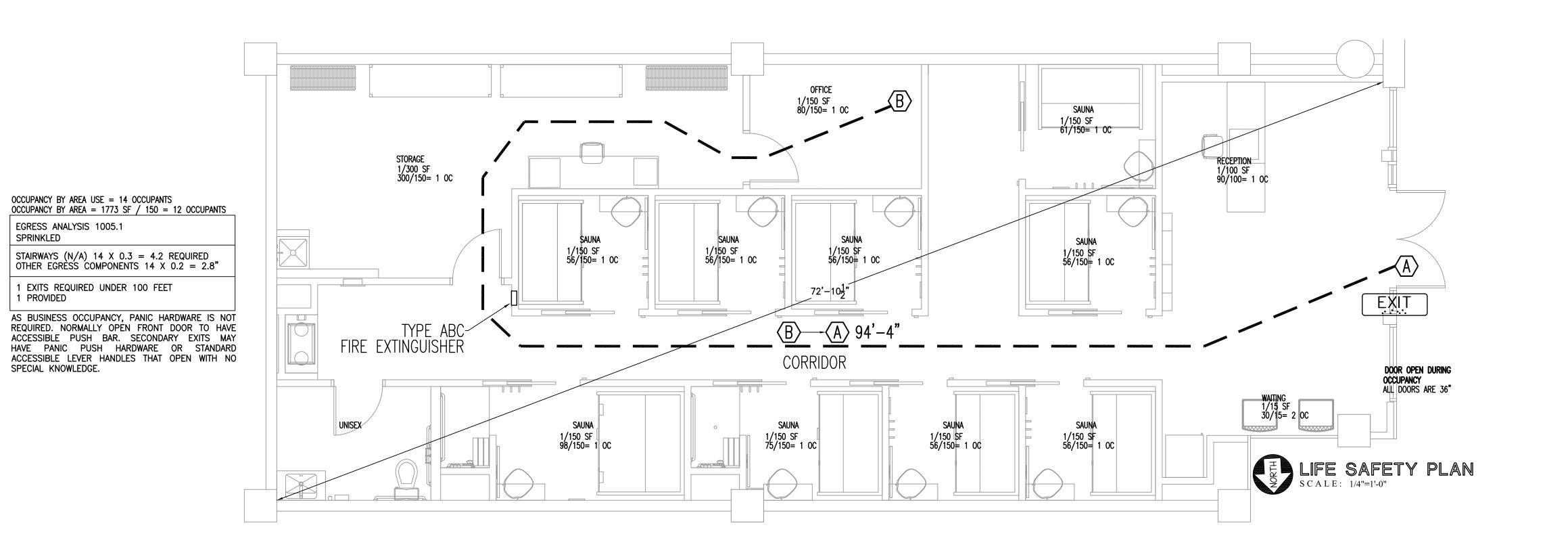
WALL MOUNT ONLY

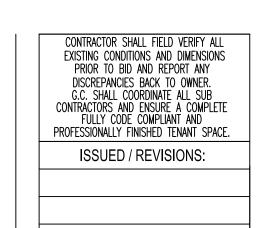
EM EMERGENCY LIGHT WITH 90 MINUTE BATTERY BACKUP WALL MOUNTED 12" BELOW CEILING. MAX 108"AFF

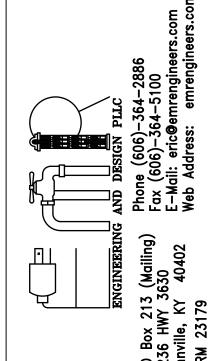
EM COMBINATION EXIT / EMERGENCY LIGHT FIXTURE WITH 90 MINUTE BATTERY BACKUP

WITH 90 MINUTE BATTERY BACKUP













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DATE: SEPTEN

SAUNA S.

SEPTEN 2450 SOUT SUITE D1 DENVER, (

DATE: SEPTEMBE
SCALE: PER PLAN
PROJECT No.: PSS 2401 SEPTEMBER 12, 2023 PER PLAN SHEET TITLE LIFE SAFETY

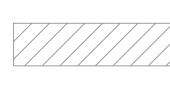
PLAN

GENERAL NOTES

- G.C. SHALL FIELD VERIFY / INSPECT AND REPORT ON THE CONDITION OF EXISTING SHELL COMPONENTS. EXTERIOR WALLS, STOREFRONT, GLAZING DOORS ETC. WHERE EXISTING CONDITIONS WILL NOT MEET OR EXCEED NEW LEVEL OF FINISH; G.C. SHALL PROVIDE BID ALTERNATE FEE TO REPAIR, REFURBISH OR REPLACE EXISTING EXTERIOR COMPONENTS.
- G.C. SHALL FIELD VERIFY AND INSPECT INTERIOR SHELL COMPONENTS. ALL SHELL WALLS SHALL BE INSULATED WITH A MINIMUM OF R11 BATT INSULATION AND BE COVERED WITH 5/8" GYPSUM BOARD FINISHED TO A MINIMUM OF LEVEL 4 SMOOTHNESS. ROOF ASSEMBLY SHALL BE INSULATED WITH A MINIMUM OF R30. WHERE NOT EXISTING G.C. SHALL PROVIDE BID ALTERNATE FEE TO PROVIDE AND INSTALL.
- ALL FLOORS SHALL BE LEVELED, CLEANED AND PREPARED TO RECEIVE NEW FINISHES.
- ALL DIMENSIONS SHOWN ARE TO FACE OF FINISHED DRYWALL.
- SEE ELEVATION SHEETS FOR ADDITIONAL INFORMATION REGARDING FRAMING AND BLOCKING REQUIREMENTS.
- G.C. SHALL BE RESPONSIBLE FOR PLUMBING TRENCHES (CORING AS REQUIRED) AND REPOUR OF FLOOR. DOWEL AND POUR BACK EQUAL TO OR BETTER THAN EXISTING SLAB. FINISH SMOOTH, READY TO RECEIVE NEW FLOORING.
- G.C. SHALL ENSURE ALL SUBCONTRACTORS BIDDING VISIT SITE PRIOR TO BIDDING. G.C. WILL BE RESPONSIBLE FOR ALL EXISTING CONDITIONS MEETING OR EXCEEDING THOSE DEPICTED WITHIN THE PLAN SET. WHERE CONDITIONS ARE NOT AS SHOWN, G.C. SHALL INCLUDE A BID ALTERNATE FEE TO ENSURE EXISTING CONDITIONS MEET OR EXCEED THE INTENT OF THE



NEW 1 LAYER 5/8" GYPSUM WALLBOARD APPLIED PARALLEL TO EACH SIDE OF 3-5/8" STEEL STUDS 16" O.C WITH " TYPE S DRYWALL SĆREWS 8" O.C. AT VERTICLE JOINTS AND 12" O.C. AT FLOOR/CEILING AND INTERMEDIATE STUDS. STAGGER JOINTS ON EACH SIDE AND OPPOSITE SIDES. NEW WALLS TO 3" ABV. CEILING, BRACED TO STRUCTURE INSTALL 3" MINERAL FIBER SOUND BATTS.



NEW 1 LAYER 5/8" GYPSUM WALLBOARD APPLIED PARALLEL TO EACH SIDE OF 6" STEEL STUDS 16" O.C WITH 1" TYPE S DRYWALL SCREWS 8" O.C. AT VERTICLE JOINTS AND 12" O.C. AT FLOOR/CEILING AND INTERMEDIATE STUDS. STAGGER JOINTS ON EACH SIDE AND OPPOSITE SIDES. NEW WALLS TO 3" ABV. CEILING, BRACED TO STRUCTURE INSTALL 3" MINERAL FIBER SOUND BATTS.

G.C. TO PROVIDE BLOCKING FOR ALL A.D.A. GRAB BARS AND FIXTURE / CABINET SUPPORTS WALL LEGEND

DOOR SCHEDULE

DOORS AND FRAMES TO BE FINISHED PER SHEET 1.09, FINISH SCHEDULE THE BOTTOM 10" OF ALL DOORS SHALL HAVE A SMOOTH, UNINTERUPTED SURFACE G.C. TO PROVIDE BLOCKING FOR ALL A.D.A. GRAB BARS AND FIXTURE / CABINET SUPPORTS

EXISTING FRONT EGRESS DOOR

- EXISTING (2) 3'-0" X 7'-0" STOREFRONT ENTRY DOOR. REFURBISH TO LIKE NEW HANDICAP ACCESSIBLE COMPLIANT PANIC HARDWARE / PUSH PULL HARDWARE. INSTALL NEW BASED ON
- THERE SHALL BE NO SPECIAL KNOWLEDGE REQUIRED TO OPEN AN EXIT DOOR FROM INSIDE THE
- ALL EXIT DOORS SHALL OPEN OUTWARD, BE SELF CLOSING AND FIT TIGHTLY.
- EXIT DOOR TO REMAIN UNLOCKED DURING ALL OPERATING HOURS.
- SIGN SHALL BE POSTED ON EGRESS SIDE OF DOOR STATING "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED". SIGN TO HAVE 1" LETTERS ON CONTRASTING BACKGROUND" MANUALLY OPERATED FLUSH BOLTS OR SURFACE BOLTS ARE NOT PERMITTED.
- AUTOMATIC FLUSH BOLTS ARE PERMITTED.

EXISTING REAR EGRESS DOOR

• EXISTING 3'-6" X 7'-0" INSULATED STEEL EXTERIOR DOOR (REFURBISH TO LIKE NEW OR REPLACE

AND SAFESSIBLE SANIC HARDWARE. INSTALL NEW BASED ON EXISTING CONDITION BE TO SEE THE SANIC HARDWARE. INSTALL NEW BASED ON EXISTING CONDITION OF THE SANIC HARDWARE. INSTALL NEW BASED ON EXISTING CONDITION OF THE SANIC HARDWARE. INSTALL NEW BASED ON EXISTING CONDITION OF THE SANIC HARDWARE. INSTALL NEW BASED ON EXISTING CONDITION OF THE SANIC HARDWARE. INSTALL NEW BASED ON EXISTING CONDITION OF THE SANIC HARDWARE. INSTALL NEW BASED ON EXISTING CONDITION OF THE SANIC HARDWARE.

- ALL EXIT DOORS SHALL OPEN OUTWARD, BE SELF CLOSING AND FIT TIGHTLY.
- FRAMES PAINTED PT3 FINISH TO MATCH ADJACENT FINISHES.1 FLOOR STOP — BALDWIN 4010
- TOILET ROOM DOOR PAINTED PT2
 - 3'-0" X 7'-0" X 1-3/4" SOLID CORE FLUSH PANEL WITH WOOD VENEER, PAINT READY, SEE FINISH SCHEDULE
 - KNOCK DOWN METAL FRAMES PAINTED PT3 3 HINGES - HAGER
 - 1 FLOOR STOP BALDWIN 4010
 - 1 LEVER TYPE PRIVACY SET US32D FINISH (ACCESSIBLE COMPLIANT) HAGER 3500 SERIES OR EQUAL LEVER HANDLE AUGUST STYLE. FUNCTION NUMBER 40. LATCH-BOLT OPERATED BY LEVER FROM EITHER SIDE OUTSIDE LEVER IS LOCKED BY PUSH BUTTON AND UNLOCKED BY EMERGENCY
- 4 UTILITY DOOR PAINTED PT2

TILE SHALL BE

CENTERED ON

SHOWER AND CUT

ALL SIDES TO THE

SHOWER DRAIN.

ROUTE/CHIP INTO

FLOOR AS NECESSARY

TO SLOPE TILE TO DRAIN AND MAINTAIN

Level entry to

SUCH AS TO SLOPE

1/4" PER FOOT FROM

LINEAR DRAIN

THRESHOLD OF ADA

Schluter – Kerdi

LINE (OR EQUIVALENT

STAINLESS STEEL

THIS DRAIN IS IN

addition to the

NON-ADA ACCESSIBLE SHOWER TO RECEIVE SCHLUTER

KERDI SHOWER KIT WITH CURB OR APPROVED EQUAL.

SHOWER TRAY AND SHOWER CURB. TYPICAL OF 3

SHOWER TILE LAYOUT

CENTER DRAIN.

SOLID GRATE

SHOWER STALL-

ACROSS THE

• 3'-0" X 7'-0" X 1-3/4" • 3'-0" X 7'-0" X 1-3/4"

RELEASE OUTSIDE OR OPERATING INSIDE LEVER.

- SOLID CORE FLUSH PANEL WITH WOOD VENEER, PAINT READY, SEE FINISH SCHEDULE
- KNOCK DOWN METAL FRAMES PAINTED PT3 HINGES – HAGER
- 1 FLOOR STOP BALDWIN 4010
- 1 LEVER TYPE PASSAGE SET US32D FINISH (ACCESSIBLE COMPLIANT) HAGER 3500 SERIES OR EQUAL LEVER HANDLE AUGUST STYLE. FUNCTION NUMBER F75

ACCESSIBLE POCKET DOOR PAINTED PT2

- KNOCK DOWN METAL FRAMES PAINTED PT3
- 3'-0" X 7'-0" X 1-3/4" FIBERGLASS DOOR • ROOM TEMPERATURES MAY EXCEED 100°F. ENSURE DOOR CAPABLE OF WITHSTANDING
- HIGH TEMPS) HAGER 9850 POCKET DOOR TRACK AND INSTALLATION KIT (WITH 9634 OPTION) OR
- APPROVED EQUAL HEAVY DUTY COMMERCIAL POCKET DOOR FRAME
- (125 LBS PLUS).
- TRICYCLE HANGÉRS AND JUMP-ROOF TRACK, STIFFENERS
- SELF ADJUSTING FLOOR ANCHORS AND STOPS ADJUST FRAMING TO ACCOMMODATE POCKET DOOR AND TO MEET ACCESSIBILITY
- REQUIREMENTS. POCKET DOOR CAN NOT FULLY RECESS INTO FRAME
- DOOR FACE SHALL HAVE HANDLE THAT ALLOW THE DOOR TO BE OPERATED WITHOUT

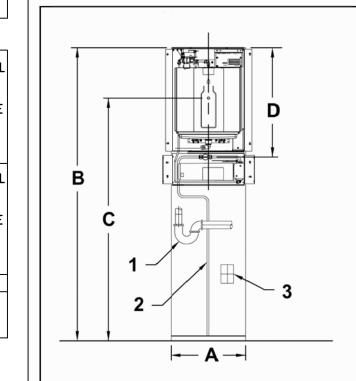
PROVIDE ACCURATE ADAP2001-5 PRIVACY SLIDING DOOR HARDWARE SET US32D P SERIES TIMELY POCKET DOOR FRAMES, PAINTED PT3.

WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. (11B-404.2.7) ALL SLIDING DOORS SHALL HAVE MINIMUM CLEARANCE OF 32 INCHES IN OPEN POSITION.

WATER MACHINE MOUNTING

4.4 Mounting Height Dimensions

. The suggested water dispenser mounting height to the center of the water dispenser sensor (C) is 47 inches (1194 mm). This height can be adjusted higher or lower depending on the desires of the user.



Plumbing and Electrical Key 1) P-trap. 2) 3/8 inch flexible water tubing. (3) Electrical box.

Recommended Opening Dimensions The overall wall opening is 14-1/2 inches (368 mm) wide (A) by 55-3/4 inches high (B), top of the unit to the floor.

Unit Height (from floor) B) 55-3/4 inches (1441 mm).

Height (from floor) to Bottle Filler Sensor C) 47 inches (1194 mm).

Note Item 1: If the p-trap is sealed within the wall, under the water dispenser, all the plumbing joints must be glued. The glue must be appropriate for the PVC pipe utilized. If the p-trap uses threaded components, they must be easily accessible.

Note them 2: According to most electrical codes, the electrical box cannot be sealed inside a wall cavity with no access. If the electrical connection is placed under the unit, a user-supplied removable wall cover will be required to access the junction box.

4.5 Water Dispenser Installation

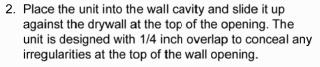
There are several installation options available:

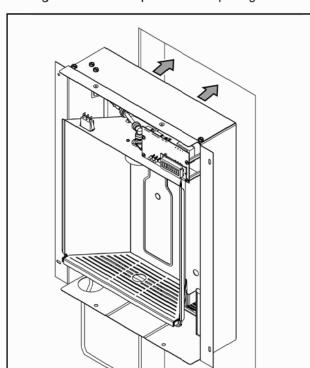
structure.

· Water dispenser with a remote filter. Note: When the filter is located in a remote location mount the filter vertically on a wall or other supporting

Water dispenser with attached filter box and filter.

- Water dispenser with remote filter and chiller. Note: When the filter is located in a remote location mount the filter vertically on a wall or other supporting structure before the water chiller.
- Water dispenser with optional waste drain. Use the following sections to install the water dispenser
- using the appropriate configuration. 4.5.1 Installing Water Dispenser into the Wall
- 1. Cut the opening into the wall using the suggested mounting dimensions as a guide.





KEY NOTES:

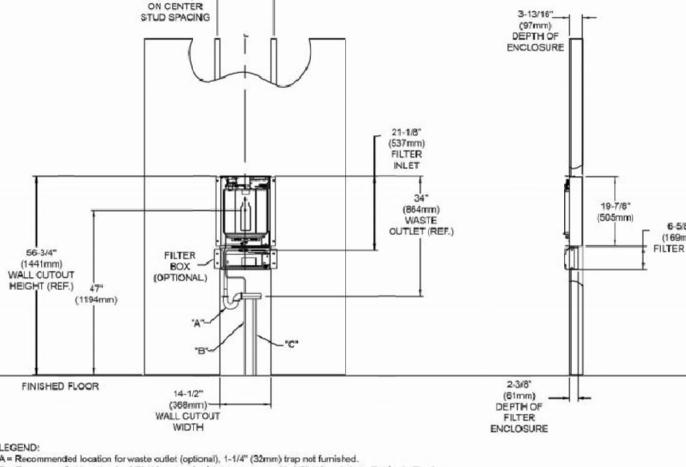
- DEMISING WALL TO BE FINISHED TO LEVEL 4 READY FOR PAINT. TENANT SIDE ONLY. MAINTAIN EXISTING WALL FIRE RATING IF ANY.
- 7) WHERE EXISTING EXTERIOR DOORS ARE REUSED. REFURBISH TO LIKE NEW CONDITION, COMPLETE WITH ALL REQUIRED COMPONENTS; SWEEP, WEATHER STRIPPING, THRESHOLD ETC. WHERE NECESSARY BASED ON EXISTING CONDITION G.C. SHALL REPLACE WITH ALL NEW. ALL HARDWARE TO MEET OR EXCEED ALL CODE AND ACCESSIBILITY REQUIREMENTS. FINAL INSTALLATION SHALL BE COMPLETE, OPERABLE AND CODE COMPLIANT, ACCESSIBLE, PROFESSIONAL INSTALLATION AS NEW. 3 SEE ELEVATIONS FOR ADDITIONAL BLOCKING REQUIREMENTS. G.C. SHALL
- COORDINATE WITH FCD TO ENSURE ALL BLOCKING IS IN PLACE AND READY FOR INSTALLATION OF CABINETS AND SHELVING. (4) WALL TO BE 5/8" MOISTURE/MOLD RESISTANT GYP. ALL WALLS IN TOILET ROOMS.
- (5) UNDERCUT DOOR(S) 1" FOR AIR TRANSFER
- (6) INSTALL FIRE TREATED 2X8 BLOCKING CAPABLE OF HOLDING A MINIMUM OF
- (7) G.C. SHALL INSPECT AND REPORT CONDITION OF EXISTING EXTERIOR COMPONENTS; STOREFRONT / DOORS / GLAZING ETC. WHERE EXISTING WILL NOT MEET OR EXCEED NEW LEVEL OF FINISH, G.C. SHALL PROVIDE BID ALTERNATE COST LINE ITEM WITHIN BID TO REPAIR / REFURBISH / REPLACE EXISTING EXTERIOR
- 8) Framing Note: Include 24"X24" Ceiling Access Panels in Lobby. Lobby CEILING ACCESS PANEL TO BE LOCATED FOR EXTERIOR SIGN VENDOR TO GAIN ACCESS TO INSIDE OF STOREFRONT FOR ANY FINAL WIRE CONNECTION OR MAINTENANCE NEEDED LATER TO THE E.C. JUNCTION BOX FOR THE EXTERIOR SIGN. COORDINATE FINAL LOCATION IN FIELD
- (9) HEADER ABOVE OPENING AT 7'-3" AFF.

COMPONENTS.

(10) SEE CEILING PLAN RCP FOR DRYWALL CEILING HEIGHT FRAMING.

300 LBS FOR GRAB BAR INSTALLATION.

- 11) HEADER ABOVE OPENING AT 7'-3" AFF. 12) COORDINATE IN FIELD FOR INSTALLATION OF VENTILATED ACCESS PANEL TO WATER
- 13) WALLS TO BE FRAMED PER MANUFACTURER DETAIL ON SHEET 1.11 FOR ACCESS TO
- DOORS FROM THE TOWEL DROP TO THE STORAGE ROOM. WALLS TO BE FINISHED PER MANUFACTURER SPECIFICATIONS.



A = Recommended location for waste outlet (optional), 1-1/4" (32mm) trap not furnished. B = Recommended location for 3/8' (10mm) water inlet, to connect with 3/8" (10mm) shut off yalve in filter box. C = Recommended location for electrical supply. It is recommended that the supply be on dedicated 15a Hospital Grade GFCI breaker.

PROPER FITMANT.

FINISH TRIM CARPENTER TO INSTALL RED CEDAR BOARDS IN RECESSED WALL CAVITIES. (NOTE: RECESS IS CREATED BY THICKNESS OF 5/8" DRYWALL)

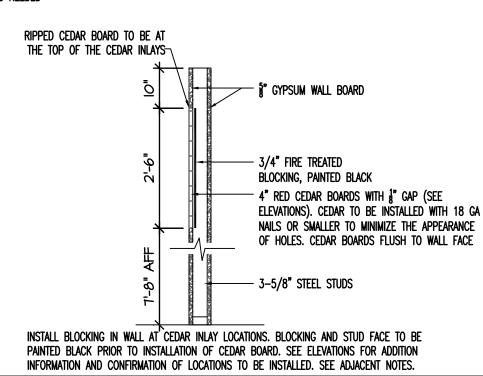
RED CEDAR BOARD TO BE FLUSH TO FINISHED GYP BOARD WHEN INSTALLED. AT AREAS THAT ARE TIGHT TO CEILING OR AT ADJACENT WALLS, TRANSITION FROM SIDING TO WALL OR CEILING SHOULD BE FIT TO CREATE AN EVEN FINISHED APPEARANCE. TOP RED CEDAR BOARD MAY BE RIPPED FOR

DRYWALL TO BE CAPPED WITH U-CHANNEL TO CREATE A CLEAN STRAIGHT CLEAN EDGE TRANSITION FROM THE DRYWALL TO THE CEDAR BOARDS. U-CHANNEL MUST NOT BE VISIBLE. FLOAT MUD TO HIDE U-CHANNEL TRANSITION, PAINT TO MATCH ADJACENT WALL, INCLUDING INSIDE EDGE OF U-CHANNEL IN THE RECESS.

EDGE CUTS TO BE STRAIGHT AND STACKING FOR AN EVEN FINISHED APPEARANCE.

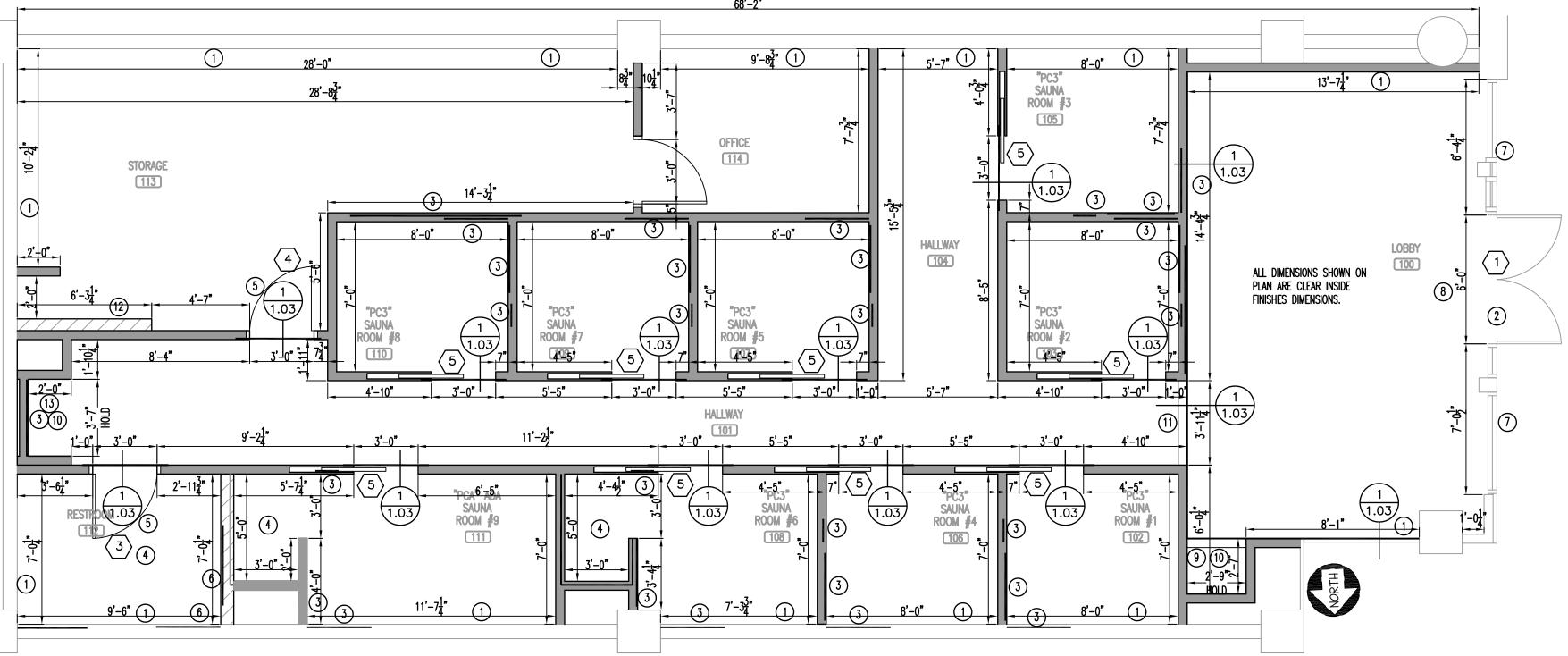
GC TO LEAVE 18" GAP BETWEEN CEDAR BOARDS AND AT TRANSITION TO GYP BOARD. OWNER TO SUPPLY CEDAR BOARD MATERIAL IN 8' AND 10' LINEAR LENGTHS TO BE CUT AND FIT ONSITE BY GC

as needed



TYPICAL RED CEDAR PANELED WALL

TV WALL MOUNT TO BE RECESSED AT TIME OF FRAMING. SEE EQUIPMENT SCHEDULE AND POWER PLAN FOR ELECTRICAL OUTLET LOCATIONS. STUD MUST BE CENTERED ON MOUNT TO ALLOW ACCESS TO THE BOX CUTOUTS FOR OUTLETS/DATA TO BE MOUNTED WITHIN THE MOUNT.



TV WALL MOUNT TO BE RECESSED AT TIME OF FRAMING. SEE EQUIPMENT SCHEDULE AND POWER PLAN FOR ELECTRICAL OUTLET LOCATIONS. STUD MUST BE CENTERED ON MOUNT TO ALLOW ACCESS TO THE BOX CUTOUTS FOR OUTLETS/DATA TO BE MOUNTED WITHIN THE MOUNT.

FRAMING PLAN S C A L E : 1/4"=1'-0"

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BID AND REPORT ANY DISCREPANCIES BACK TO OWNER. . SHALL COORDINATE ALL SUB CONTRACTORS AND ENSURE A COMPLETE FULLY CODE COMPLIANT AND PROFESSIONALLY FINISHED TENANT SPACE. ISSUED / REVISIONS:

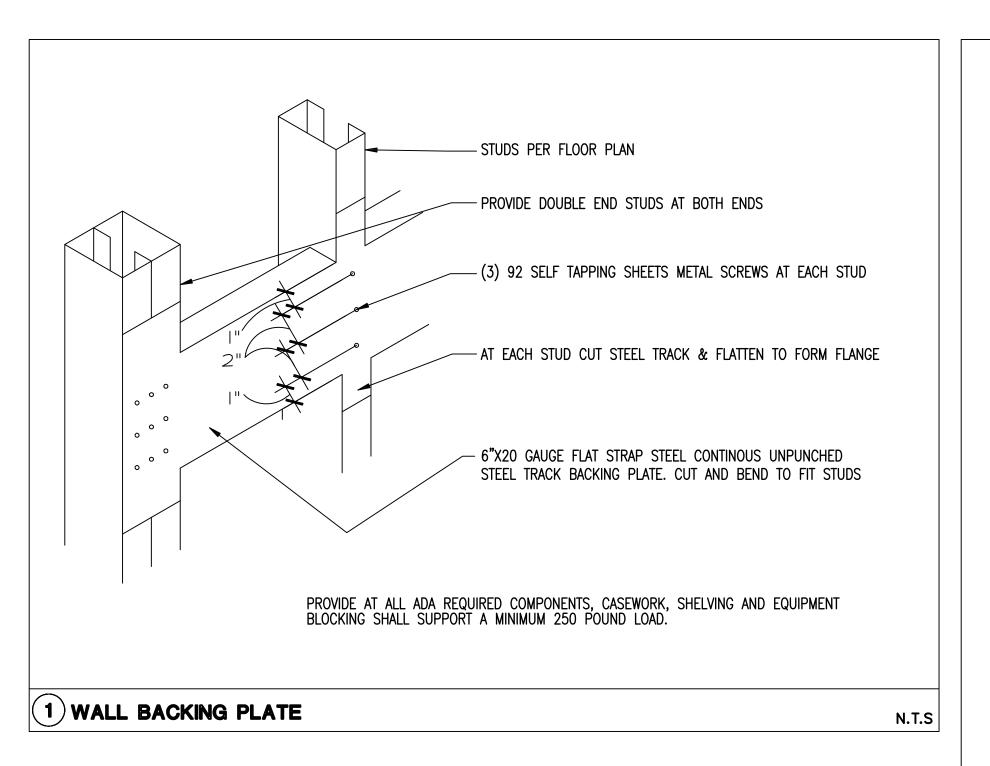


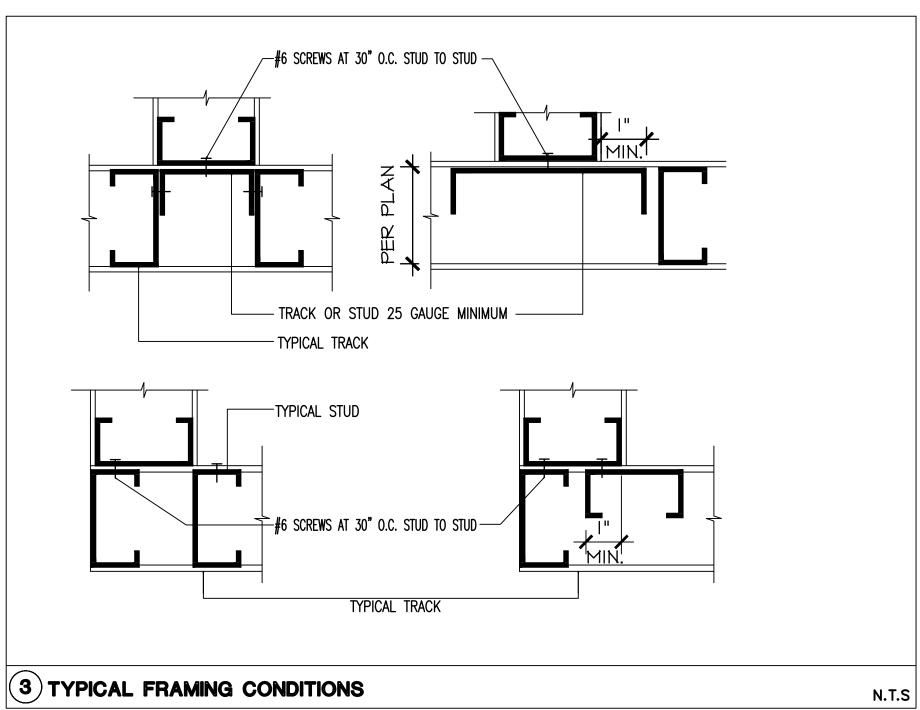
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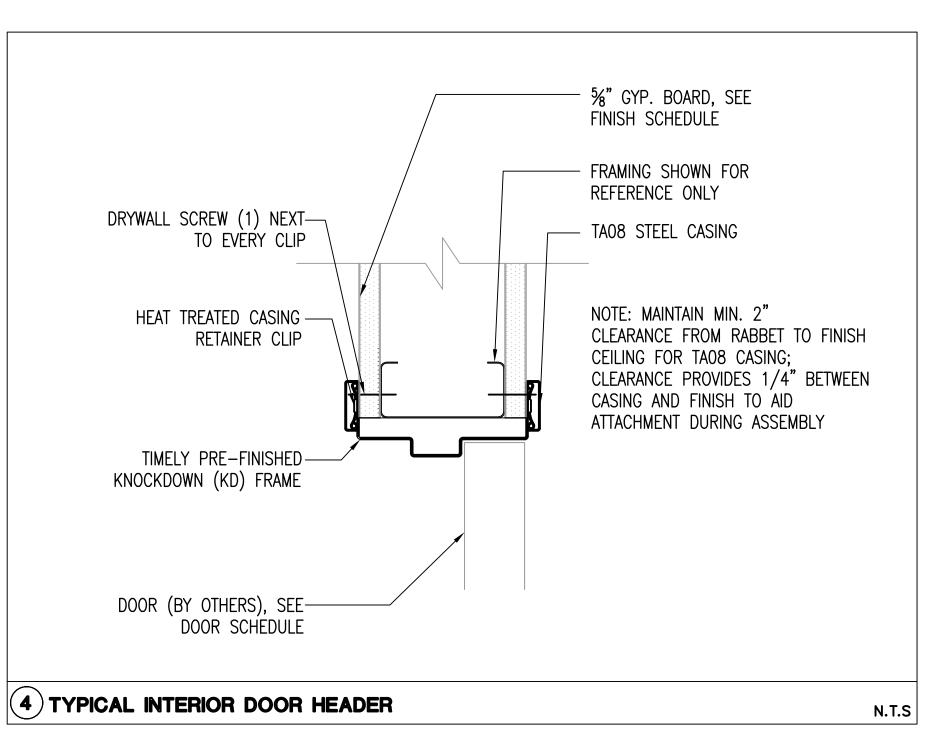
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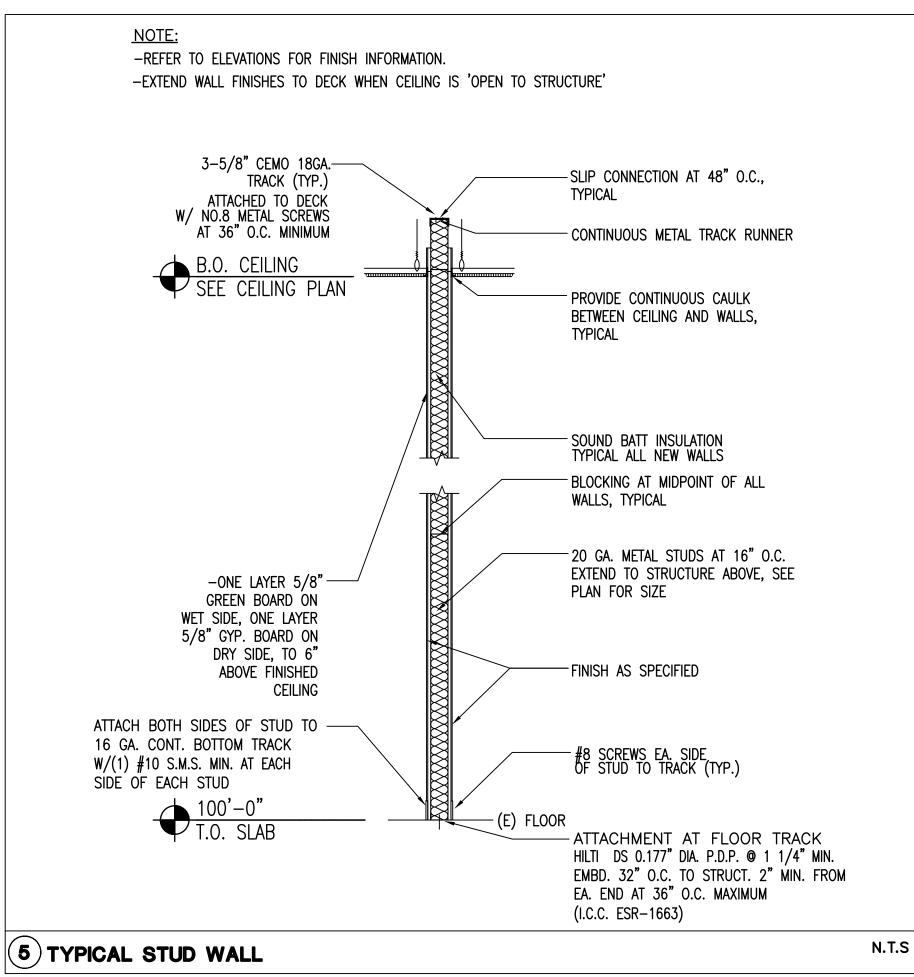
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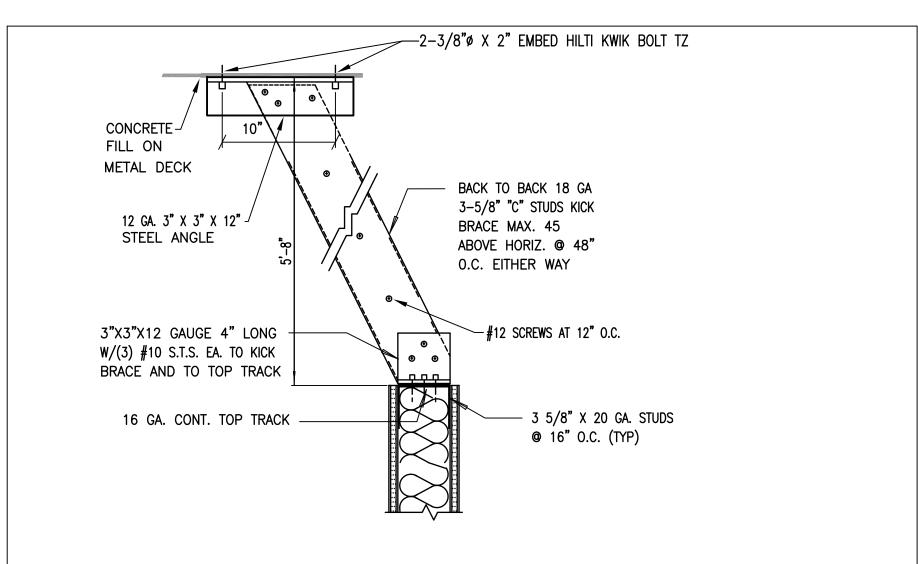
Ш SHEET TITLE **FRAMING** PLAN & **DETAILS**





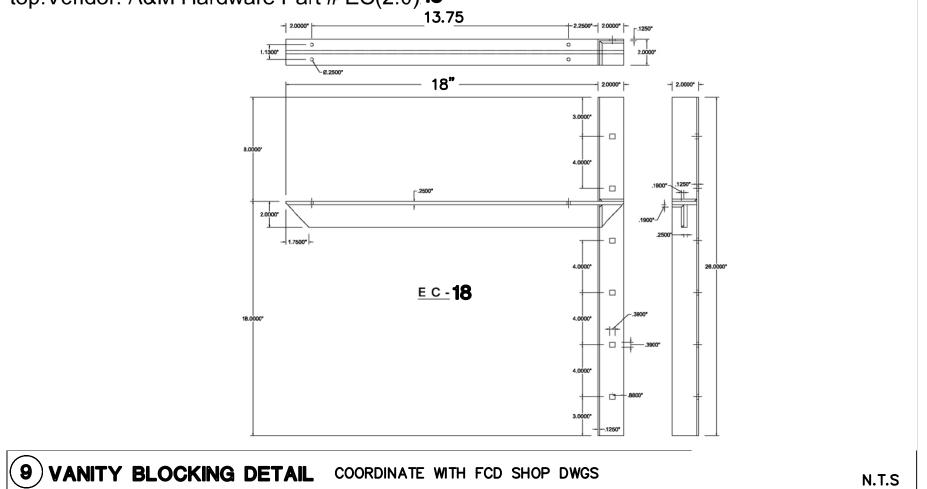


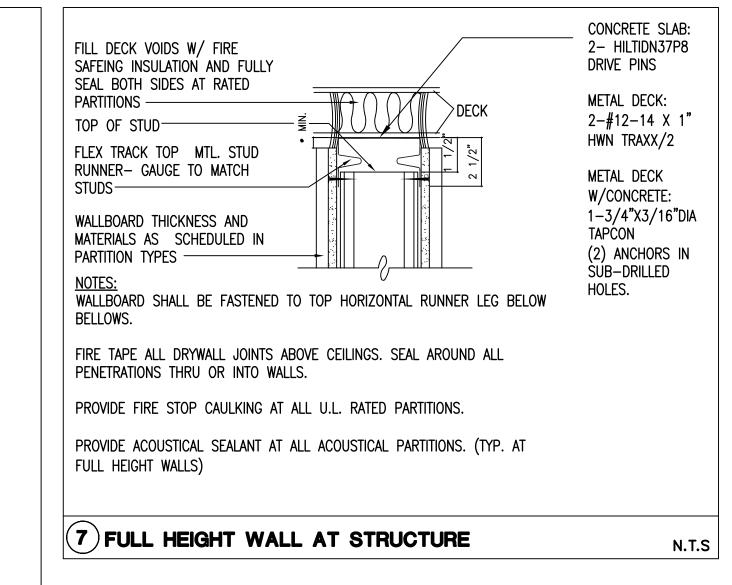




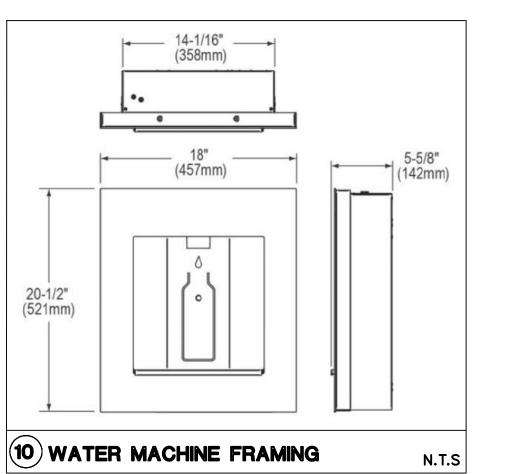
GC to furnish and install the heavy duty vanity support during framing Bracket required to be mounted to the stud within the wall prior to GYP and tile to support the floating end of the vanity. Upon fixture installation, GC to connect the support the underside of the vanity counter top. Vendor: A&M Hardware Part # EC(2.0) 18

(6) TYPICAL WALL BRACING





SPAN TABL		
NON BEARING STUD S	SIZES AT 16" O.C. WITH FLEXIBLE ([DRYWALL) FINISH (L/120)
STUD SIZE	MAXIMUM FLANGE BRACE SPACING	ALLOWABLE HEIGHT
362WCS20	2'-6"	11'-0"
4WCS20	2'-6"	12'-0"
6WCS20	3'-0"	17'-0"
NON BEARING STUD S	SIZES AT 16" O.C. WITH BRITTLE (TIL	E) FINISH (L/360)
STUD SIZE	MAXIMUM FLANGE BRACE SPACING	ALLOWABLE HEIGHT
362WCS20	2'-6"	16'-0"
4WCS20	2'-6"	18'-0"
6WCS20	3'-0"	20'-0"
SINGLE SPAN CEILING	JOISTS AT 16" O.C. WITH ONE LAY CONTINUOUS LATERAL SUPPORT OF (12'-7" 17'-6"	ER GYP. BOARD (10LB/SF TOTAL LOAD
SINGLE SPAN CEILING JOIST SIZE (6WCS20 8WCS18	CONTINUOUS LATERAL SUPPORT OF (12'-7" 17'-6"	·
SINGLE SPAN CEILING JOIST SIZE (CONTINUOUS LATERAL SUPPORT OF (12'-7" 17'-6" LENGTHS	·
SINGLE SPAN CEILING JOIST SIZE (6WCS20 8WCS18 ALLOWABLE BRACED L MAXIMUM STUD HEIGH	CONTINUOUS LATERAL SUPPORT OF (12'-7" 17'-6" LENGTHS TT STUD TYPE	COMPRESSION FLANGE SPACING
SINGLE SPAN CEILING JOIST SIZE (6WCS20 8WCS18 ALLOWABLE BRACED L MAXIMUM STUD HEIGH 9'-0"	CONTINUOUS LATERAL SUPPORT OF ($12'-7"$ $17'-6"$ LENGTHS $4T \qquad STUD TYPE$ $3-\frac{5}{8}"X25 GA$	COMPRESSION FLANGE
SINGLE SPAN CEILING JOIST SIZE (6WCS20 8WCS18 ALLOWABLE BRACED L MAXIMUM STUD HEIGH 9'-0" 10'-0"	CONTINUOUS LATERAL SUPPORT OF (12'-7" 17'-6" LENGTHS TT STUD TYPE	SPACING 16" OR 24" O.C.
SINGLE SPAN CEILING JOIST SIZE 6WCS20 8WCS18 ALLOWABLE BRACED L MAXIMUM STUD HEIGH 9'-0" 10'-0" 12'-0"	CONTINUOUS LATERAL SUPPORT OF (12'-7" 17'-6" LENGTHS HT STUD TYPE $3-\frac{5}{8}$ "X25 GA $3-\frac{5}{8}$ "X20 GA	SPACING 16" OR 24" O.C. 16" OR 24" O.C.
SINGLE SPAN CEILING JOIST SIZE (6WCS20 8WCS18 ALLOWABLE BRACED L	CONTINUOUS LATERAL SUPPORT OF $(12'-7'')$ $17'-6''$ LENGTHS IT STUD TYPE $3-\frac{5}{8}"X25$ GA $3-\frac{5}{8}"X20$ GA $3-\frac{5}{8}"X20$ GA	SPACING 16" OR 24" O.C. 16" OR 24" O.C. 16" OR 24" O.C.
SINGLE SPAN CEILING JOIST SIZE 6WCS20 8WCS18 ALLOWABLE BRACED L MAXIMUM STUD HEIGH 9'-0" 10'-0" 12'-0" 16'-0" 18'-0" 20'-0"	CONTINUOUS LATERAL SUPPORT OF OR $12'-7"$ $17'-6"$ LENGTHS HT STUD TYPE $3-\frac{5}{8}"X25$ GA $3-\frac{5}{8}"X20$ GA	SPACING 16" OR 24" O.C. 16" OR 24" O.C. 16" OR 24" O.C. 16" O.C. 16" O.C. 16" O.C. 16" O.C.
SINGLE SPAN CEILING JOIST SIZE 6WCS20 8WCS18 ALLOWABLE BRACED L MAXIMUM STUD HEIGH 9'-0" 10'-0" 12'-0" 16'-0" 18'-0" 20'-0" 24'-0"	12'-7" 17'-6" LENGTHS STUD TYPE 3-\frac{5}{8}"\text{X25 GA} \\ 3-\frac{5}{8}"\text{X20 GA} \\ 6"\text{X20" GA} \\ 6"\text{X20" GA}	SPACING 16" OR 24" O.C. 16" OR 24" O.C. 16" OR 24" O.C. 16" O.C. 16" O.C. 16" O.C. 16" O.C. 16" O.C.
SINGLE SPAN CEILING JOIST SIZE 6WCS20 8WCS18 ALLOWABLE BRACED L MAXIMUM STUD HEIGH 9'-0" 10'-0" 12'-0" 16'-0" 18'-0" 20'-0" 24'-0" 30'-0"	12'-7" 17'-6" LENGTHS T 3-\frac{8}{8}"\text{X25 GA} GA 3-\frac{8}{8}"\text{X20 GA} GA 3-\frac{8}{8}"\text{X20 GA} GA 3-\frac{8}{8}"\text{X20 GA} GA 6"\text{X20" GA} GA 6"\text{X20" GA} GA 6"\text{X20" GA} GA	SPACING 16" OR 24" O.C. 16" OR 24" O.C. 16" OR 24" O.C. 16" O.C.
SINGLE SPAN CEILING JOIST SIZE 6WCS20 8WCS18 ALLOWABLE BRACED L MAXIMUM STUD HEIGH 9'-0" 10'-0" 12'-0" 16'-0" 18'-0" 20'-0" 24'-0" 30'-0"	12'-7" 17'-6" LENGTHS STUD TYPE 3-\frac{5}{8}"\text{"}\text	SPACING 16" OR 24" O.C. 16" OR 24" O.C. 16" OR 24" O.C. 16" O.C. 16" O.C. 16" O.C. 16" O.C. 16" O.C. 24" O.C.
SINGLE SPAN CEILING JOIST SIZE 6WCS20 8WCS18 ALLOWABLE BRACED L MAXIMUM STUD HEIGH 9'-0" 10'-0" 12'-0" 16'-0" 18'-0" 20'-0" 24'-0" 30'-0"	12'-7" 17'-6" LENGTHS T 3-\frac{8}{8}"\text{X25 GA} GA 3-\frac{8}{8}"\text{X20 GA} GA 3-\frac{8}{8}"\text{X20 GA} GA 3-\frac{8}{8}"\text{X20 GA} GA 6"\text{X20" GA} GA 6"\text{X20" GA} GA 6"\text{X20" GA} GA	SPACING 16" OR 24" O.C. 16" OR 24" O.C. 16" OR 24" O.C. 16" O.C.



N.T.S

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BID AND REPORT ANY DISCREPANCIES BACK TO OWNER.
G.C. SHALL COORDINATE ALL SUB
CONTRACTORS AND ENSURE A COMPLETE
FULLY CODE COMPLIANT AND
PROFESSIONALLY FINISHED TENANT SPACE. ISSUED / REVISIONS:

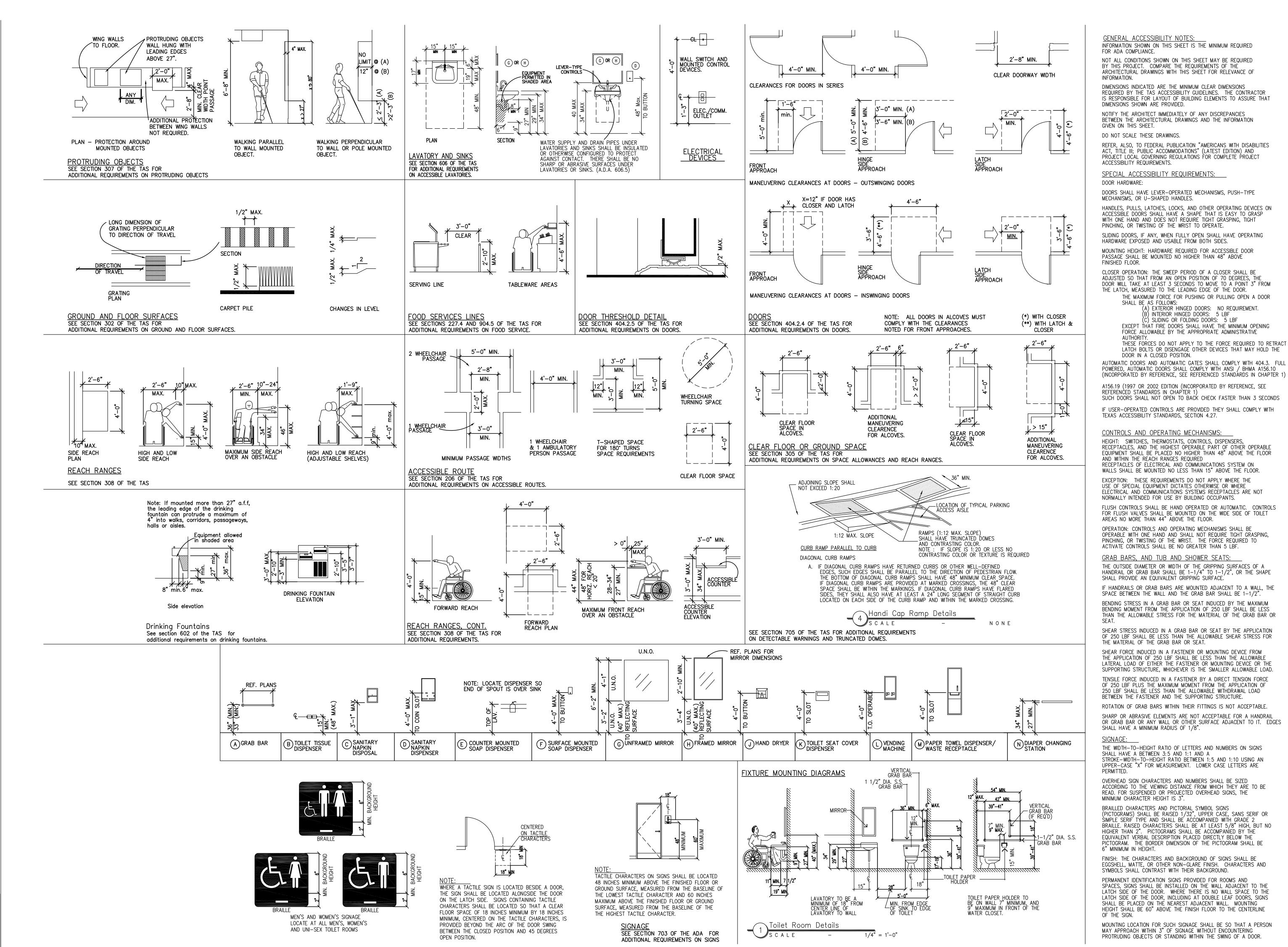


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CHECKED BY: Staff DRAWN BY: Staff **SEPTEMBER 12, 2023** PER PLAN PROJECT No.: PSS 2401

FRAMING DETAILS

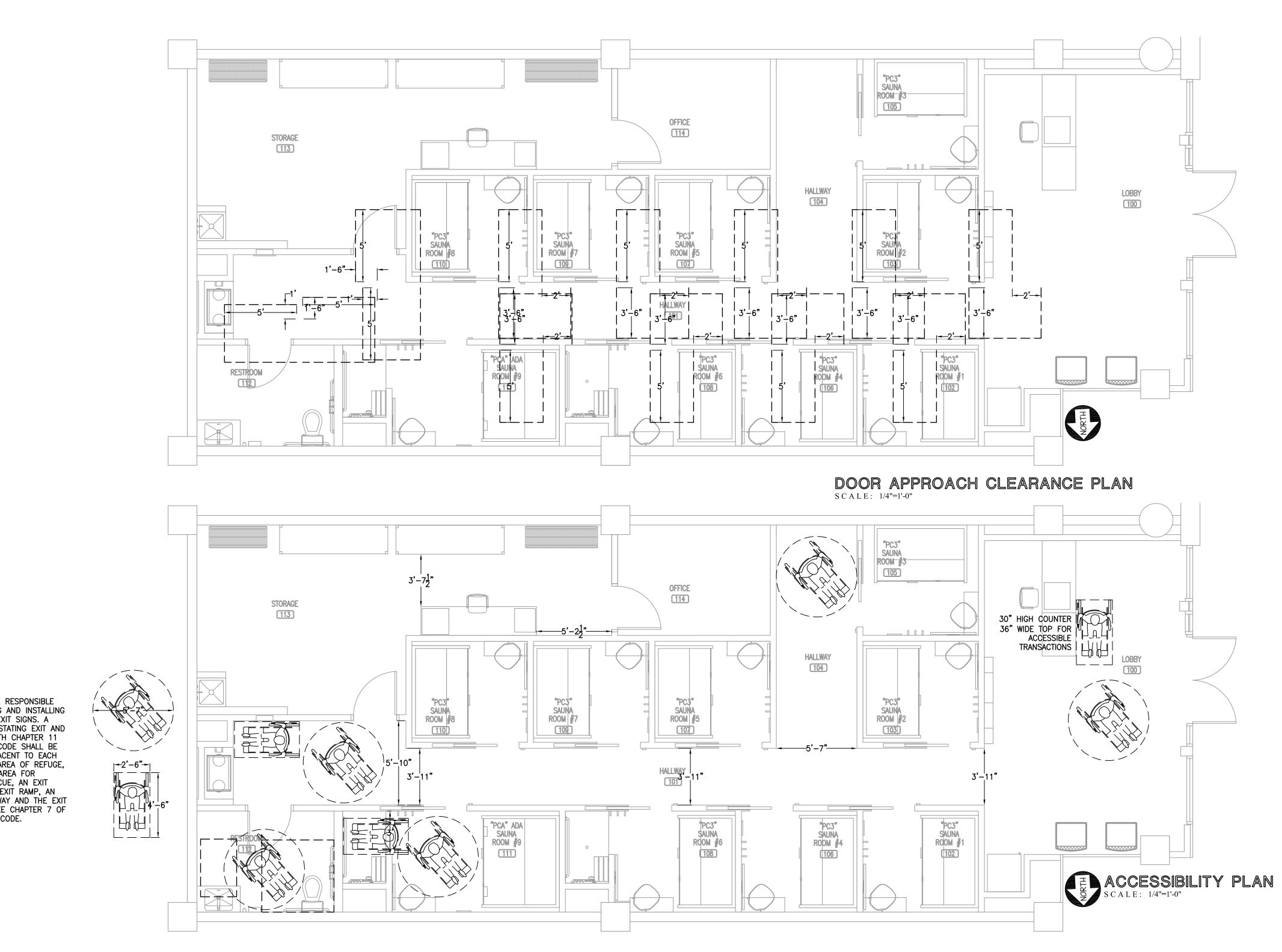


CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BID AND REPORT ANY DISCREPANCIES BACK TO OWNER. . SHALL COORDINATE ALL SUB CONTRACTORS AND ENSURE A COMPLETE FULLY CODE COMPLIANT AND PROFESSIONALLY FINISHED TENANT SPACE. ISSUED / REVISIONS: REQUIRED BY THE TAS ACCESSIBILITY GUIDELINES. THE CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF BUILDING ELEMENTS TO ASSURE THAT

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2450 SOUSUITE D1 DENVER, 000 CHECKED BY: Staff DRAWN BY: Staff **SEPTEMBER 12, 2023** PER PLAN SCALE: PROJECT No.: PSS 2401

Ш SHEET TITLE **ACCESSIBLE DETAILS**



G.C. SHALL BE RESPONSIBLE
FOR ACQUIRING AND INSTALLING
NEW TACTILE EXIT SIGNS. A
TACTILE SIGN STATING EXIT AND
COMPLYING WITH CHAPTER 11
OR BUILDING CODE SHALL BE
PROVIDED ADJACENT TO EACH
DOOR TO AN AREA OF REFUGE,
AN EXTERIOR AREA FOR
ASSISTED RESCUE, AN EXIT
STAIRWAY, AN EXIT RAMP, AN
EXIT PASSAGEWAY AND THE EXIT
DISCHARGE. SEE CHAPTER 7 OF
ACCESSIBILITY CODE.



CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BID AND REPORT ANY DISCREPANCIES BACK TO OWNER. G.C. SHALL COORDINATE ALL SUB CONTRACTORS AND ENSURE A COMPLETE FULLY CODE COMPLIANT AND PROFESSIONALLY FINISHED TENANT SPACE.

ISSUED / REVISIONS:

 USE PLANS FIXTURE SCHEDULE ALL FIXTURES, SENSORS, AND DIMMERS ARE SUPPLIED AND INSTALLED BY GC/EC SPEAKERS - 5 TOTAL WITHIN SUITE PROVIDED BY OWNER & INSTALLED BY OWNER VENDOR SPEAKER WIRE CONNECTS TO OWNER SUPPLIED AMPLIFIER LOCATED AT THE PHONE BOARD. TENANT TO CONFIRM PLACEMENT OF THE AMPLIFIER IN THE FIELD. • ALL GRILLES AND DIFFUSERS TO BE FACTORY WHITE. CEILING COVERING ARMSTRONG, DUNE 1775, TEGULAR 24"X24"X5/8" ARMSTRONG, DUNE 1775, TEGULAR 24"X24"X5/8" MOUNTED AT 8'-0". SUPRAFINE XL 9/16" GRID, FACTORY WHITE GYPSUM BOARD CEILING - PT3
MOUNTED AT 11'-0" \langle 4 \rangle GYPSUM BOARD CEILING - PT1 └── MOUNTED AT 11'-0" 5 GYPSUM BOARD CEILING - PT1 MOUNTED AT 8'-0" GYPSUM BOARD CEILING - PT1
MOUNTED AT 7'-3" ARMSTRONG, DUNE 1775, TEGULAR 24"X24"X5/8"
MOUNTED AT 9'-0". SUPRAFINE XL 9/16" GRID, FACTORY WHITE

ALL FINISHES ARE NOT NECESSARILY IN USE.

IF CEILING HEIGHT, DUE TO SITE CONDITIONS, IS NOT ATTAINABLE,

GC TO DISCUSS FINISHED HEIGHT WITH CONSTRUCTION MANAGER.

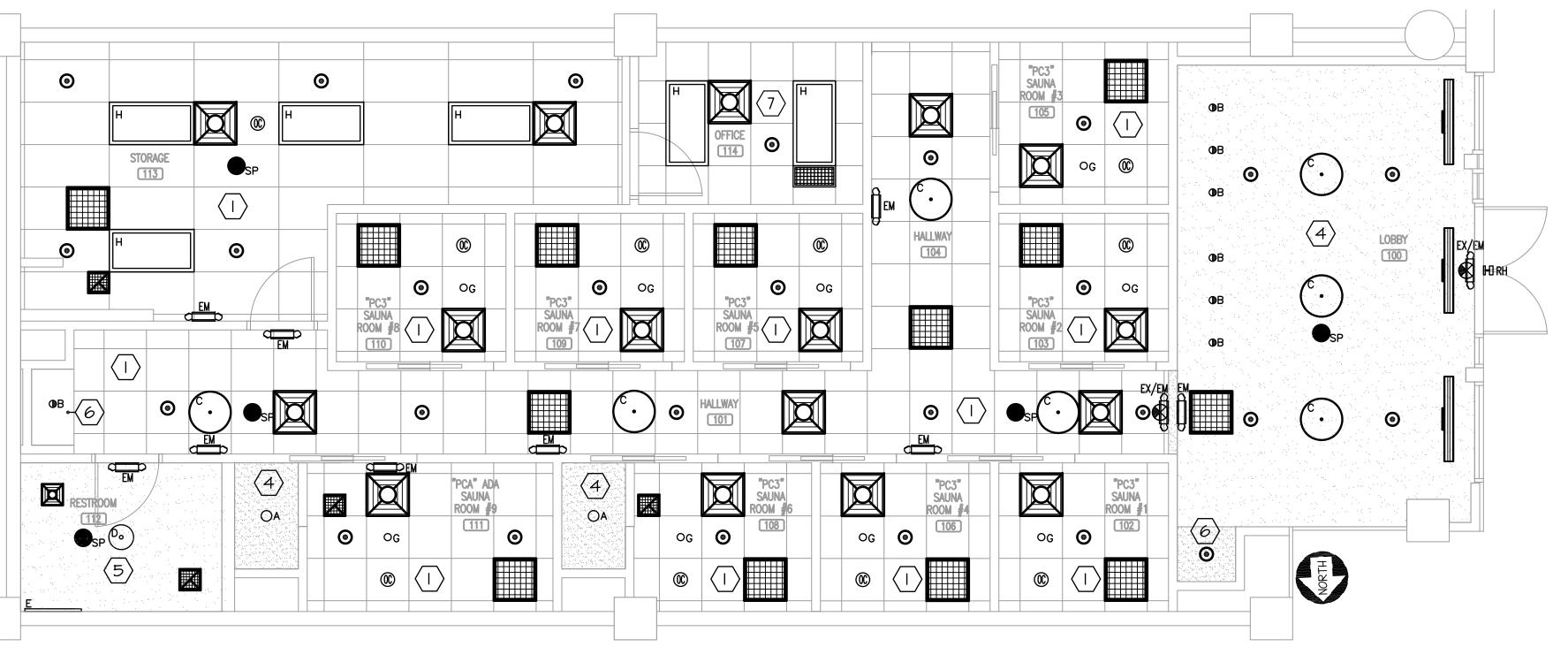
REFER TO FINISH SCHEDULE FOR CEILING FINISH SPECIFICATIONS.

6" RECESSED DOWN LIGHT (DAMP LOCATION FOR SHOWERS ONLY) +11'-0" AFF IN GRID 4" RECESSED WALLWASHER +11'-0" AFF +8'-11" AFF. INSTALL WITH (1) 12" ROD SUPPLIED BY MANUFACTURER. 14" DRUM LIGHT +7'-3" AFF WALL MIRROR (BACKLIT) +3'-2" AFF TO BOTTOM OF MIRROR EMERGENCY LIGHT WITH 90 MINUTE BATTERY BACKUP MOUNT BOTTOM OF FIXTURE 8'-0" AFF EMERGENCY LIGHT REMOTE EXTERIOR HEAD 모 RH DIRECTIONAL EXIT SIGN EMERGENCY LIGHT WITH 90 MINUTE BATTERY BACKUP AND EXIT SIGN. MOUNT 12" ABOVE DOOR CEILING MOUNTED SPEAKER, TRIM TO MATCH SURFACE PROVIDED BY OWNER, INSTALLED BY G.C. FULLY CONCEALLED SPRINKLER HEAD 24"X24" SUPPLY AIR DIFFUSER 12"X12" SUPPLY AIR DIFFUSER EXHAUST FAN 24"X24" RETURN AIR GRILL SUPPLY AIR SLOT DIFFUSER

REFLECTED CEILING LEGEND

NOT ALL FIXTURES ARE NECESSARILY IN USE. LIGHT SWITCHES/CONTROLS TO BE MOUNTED AT 48" A.F.F. TO TOP OF CONTROL. LIGHT FIXTURES, OCCUPANCY SENSORS AND FLUORESCENT DIMMER SUPPLIED BY

WALL MIRROR BY FCD, INSTALLED BY GC/EC



REFLECTED CEILING PLAN S C A L E: 1/4"=1'-0"

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BID AND REPORT ANY DISCREPANCIES BACK TO OWNER. G.C. SHALL COORDINATE ALL SUB CONTRACTORS AND ENSURE A COMPLETE FULLY CODE COMPLIANT AND PROFESSIONALLY FINISHED TENANT SPACE. ISSUED / REVISIONS:



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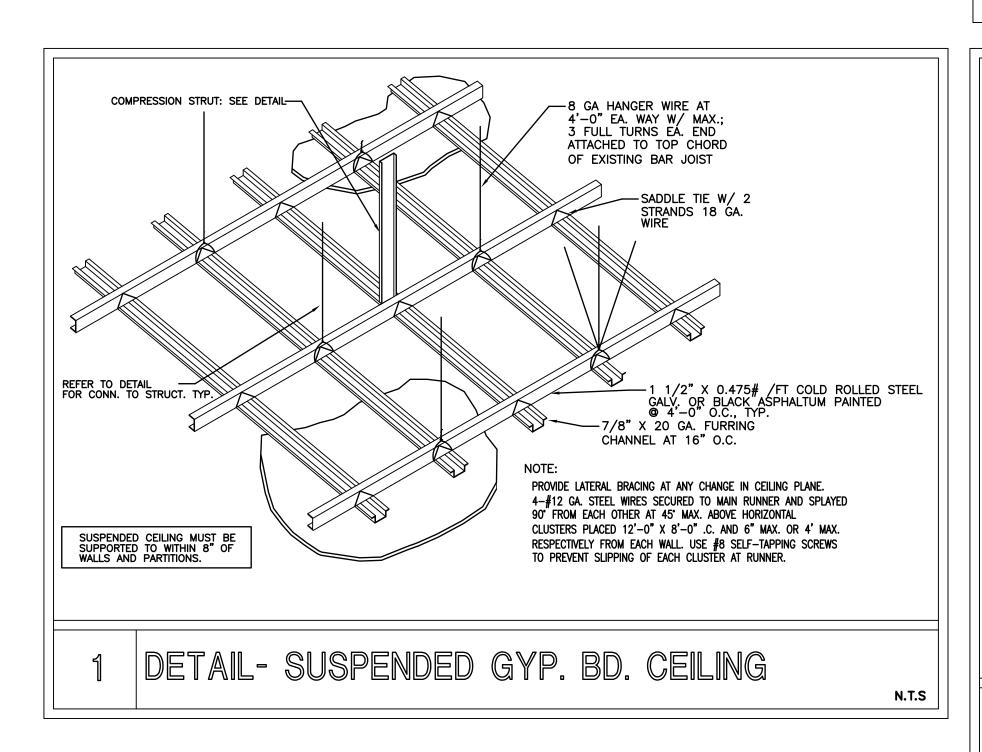
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SCALE: PER PL
PROJECT No.: PSS 240 SEPTEMBER 12, 2023 PER PLAN PROJECT No.: PSS 2401

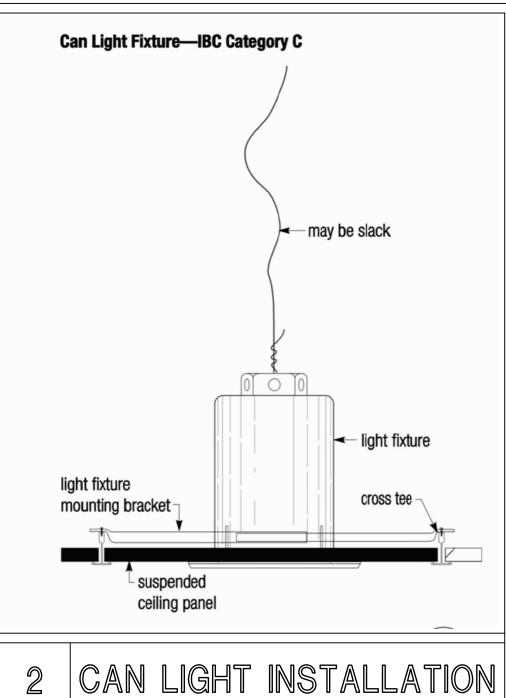
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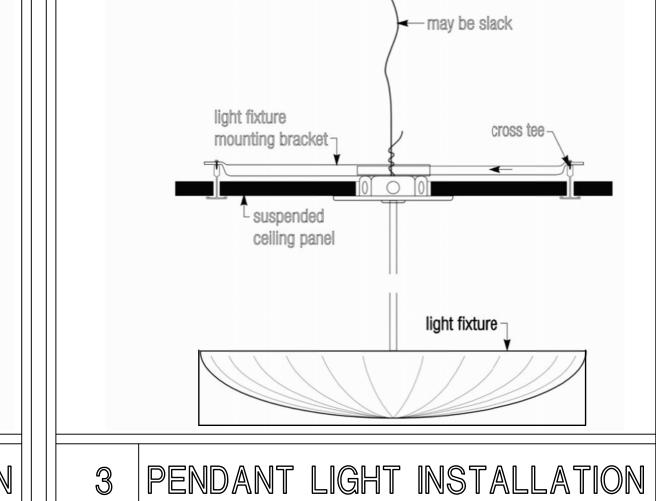
SHEET No. 1.07

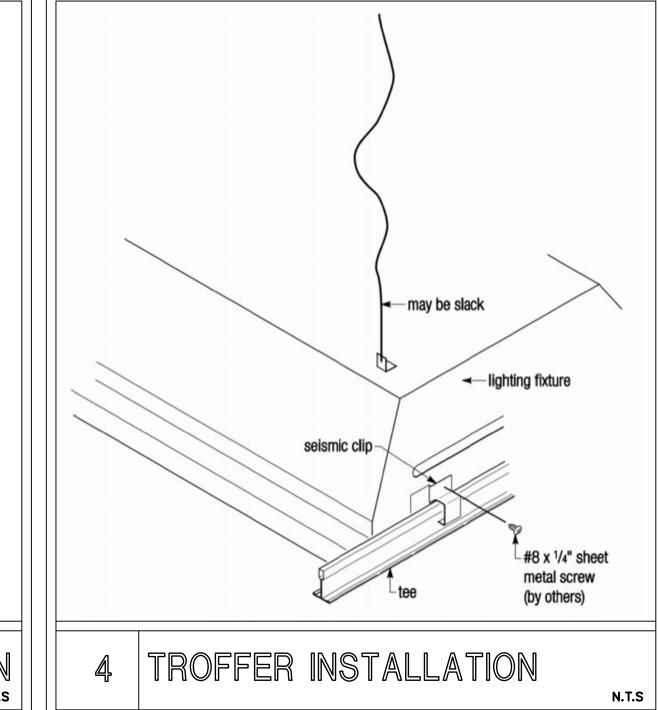
SEISMIC APPLICATION			T		1		T
BASIC CONNECTIONS PERIMETER AND LATERAL SPLAY BRACING	IBC CATAGORY	BASIC CONNECTIONS PERIMETER AND LATERAL SPLAY BRACING	IBC CATAGORY C	LIGHT FIXTURE ATTACHMENT	IBC CATAGORY D, E, F	SERVICE APPLICATION	IBC CATAGORY D, E, F
MINIMUM INTERSECTION STRENGTH LIMITS @MT / CT (3)	60 LBS	PARTITION ATTACHMENT	NOT ALLOWED	LIGHT FIXTURE (ALLTYPES) MECHANICALLY ATTACHED REQUIRED TO GRID PER NEC 410-16 (TWO PER FIXTURE	REQUIRED	AIR TERMINALS	
VERTICAL HANGER WIRE 12 GAUGE ◎ 4'-0" O.C.	REQUIRED	OFFICIAL OFFICIATION JOINT	NOT DECLUDED	UNLESS INDEPENDENTLY SUPPORTED)		< 20lbs - POSITIVELY ATTACHED TO GRID	REQUIRED
CONNECTION DEVICE FROM VERTICAL WIRE TO THE SURFACEABOVE MUST STAIN MIN 100lbs	NOT REQUIRED	SEISMIC SEPARATION JOINT RIGID BRACING FOR CEILING PLANE ELEVATION CHANGES	NOT REQUIRED NOT REQUIRED	-SURFACE-MOUNTED FIXTURES ATTACHED TO GRID	NOT REQUIRED	20 TO 56 lbs — POSITIVELY ATTACHED TO GRID AND TWO 12—GAUGE WIRES TO STRUCTURE (MAY BE SLACK)	REQUIRED
MAIN-TEE CLASSIFICATIONS	INTERMEDIATE OR HEAVY DUTY	MOID BINGING FOR CEILING FEARE ELEVATION CHANGES	NOT KEQUIKED	-PENDANT-HUNG FIXTURES DIRECTLY SUPPORTED FROM STRUCTURE WITH 9-GAUGE WIRE (OR APPROVED ALTERNATIVE).	REQUIRED	>56 lbs - DIRECTLY SUPPORTED TO STRUCTURE	REQUIRED
1 IN 6 MAX PLUMB OF VERTICAL HANGER WIRES PERIMETER VERTICAL HANGER WIRES NOT MORE THAN	REQUIRED			-RIGID LAY-IN CAN LIGHT FIXTURES		CABLE TRAYS AND ELECTRICAL CONDUIT INDEPENDENTLY	REQUIRED
8" FROM WALL	NOT REQUIRED UNLESS<7/8"			<10lbs - ONE WIRE TO STRUCTURE (MAY BE SLACK)	REQUIRED	SUPPORTED AND BRACED	
GRID END/WALL CLEARANCE	MIN 3/8"			10 TO 56 lbs - TWO WIRES FROM HOUSING TO	REQUIRED	SPRINKLER HEADS AND OTHER PENETRATION CLEARANCES	3/8" ALL SIDE
PERIMETER CLOSURE (MOLDING) WIDTH	MIN 7/8" OR USE PER. WIRES			STRUCTURE (MAY BE SLACK)			
GRID CONNECTION TO PERIMETER ATTACHED ON TWO ADJACENT WALLS	NOT PERMITTED			> 57 lbs — SUPPORTED DIRECTLY TO STRUCTURE BY APPROVED HANGERS	REQUIRED		
PERIMETER TEE ENDS TIED TOGETHER AT PERIMETERS	REQUIRED						
HORIZONTAL RESTRAINT (SPLAY WIRES OR RIGID BRACING) WITHIN 2" OF INTERSECTION AND SPLAYED 90° APART AT 45°.	NOT REQUIRED						

Pendant-Hung Fixtures—IBC Category C



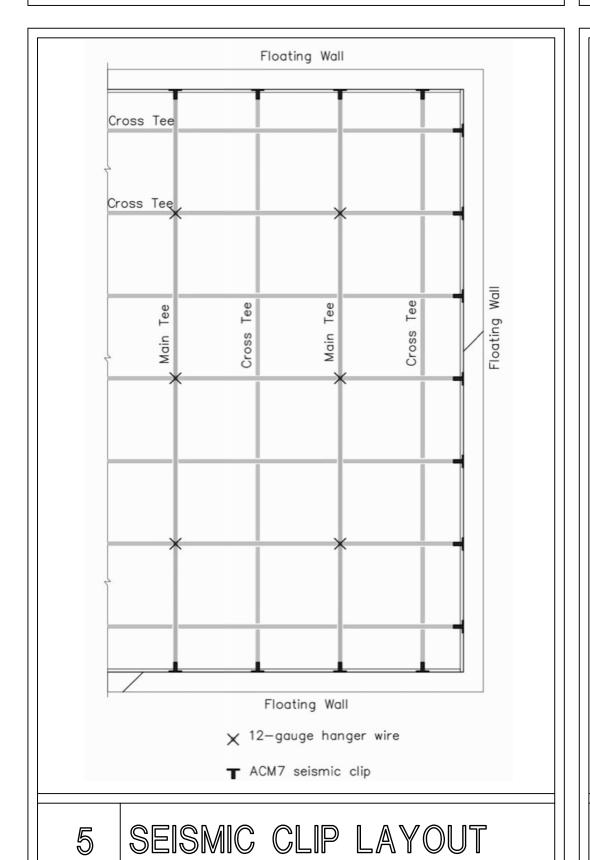


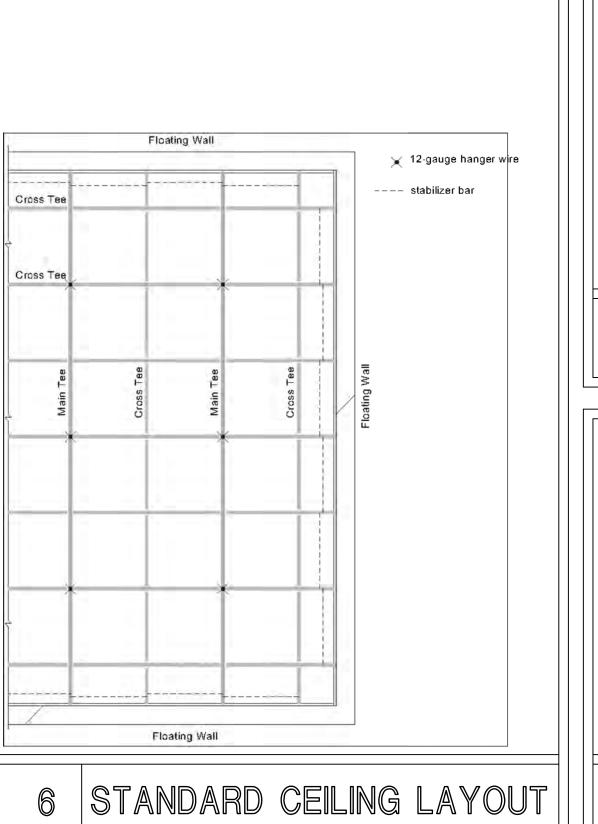


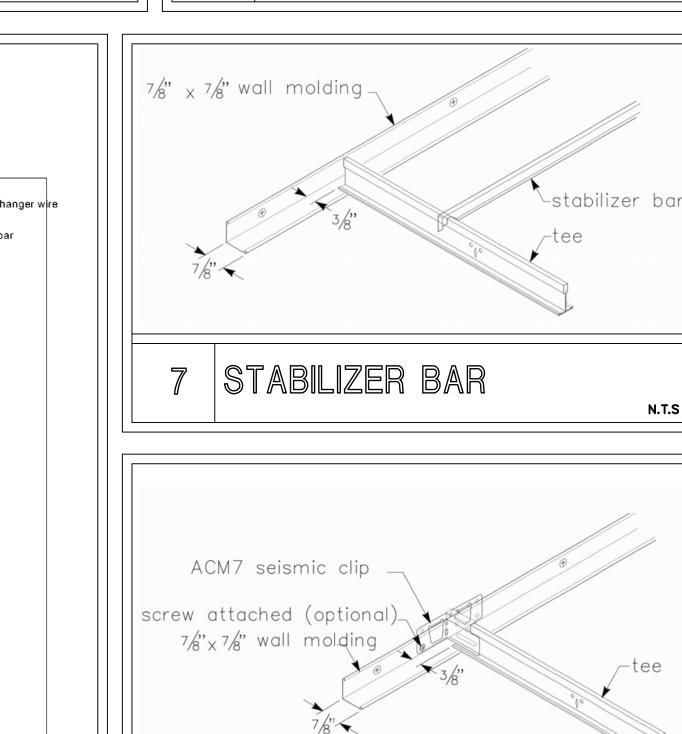


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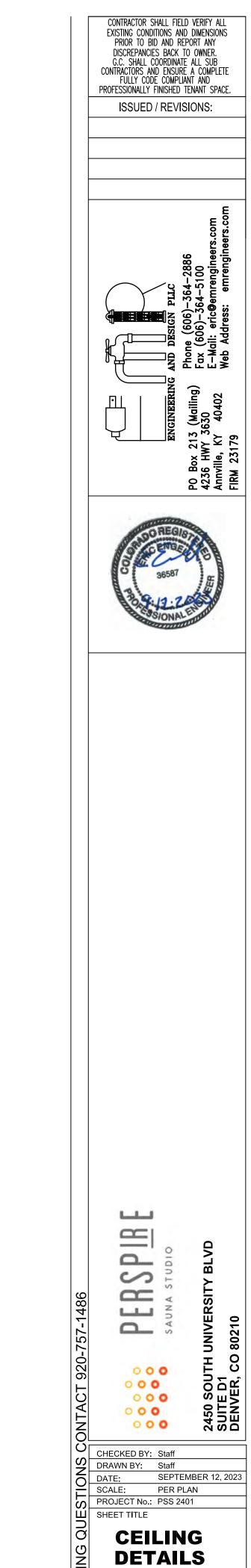
N.T.S







8 ACM7 CLIP



NOTES

1. GC TO INCLUDE COLOR MATCH CAULK FOR ALL SPLASHES AND CABINETRY DURING FINAL PAINTING.

2. ALL FLOORING AND GROUT SHALL BE SEALED WATER TIGHT PER GOOD INDUSTRY STANDARDS.

FINISH REQUIREMENTS

WALL FLOOR AND CEILING SHALL NOT EXCEED FLAME SPREAD CLASSIFICATIONS IN TABLE 803.5

ALL APPLIED FINISHES SHALL MEET OR EXCEED THE FLAME SPREAD AND DEVELOPED SMOKE REQUIREMENTS AS SET FORTH IN THE BUILDING CODE.

CLASS A: FLAME SPREAD OF 0-25; SMOKE DEVELOPED 0-450

CLASS B: FLAME SPREAD OF 26-75; SMOKE DEVELOPED 0-450

CLASS C: FLAME SPREAD OF 76-200; SMOKE DEVELOPED 0-450

TABLE 803.5 SPRINKLED

OCCUPANCY VERTICLE EXITS AND EXIT ACCESS CORRIDORSROOMS AND EXIT PASSAGEWAYS AND OTHER EXITWAYS ENCLOSED SPACES.

B

A

B

C

1 COAT OF TINTED PRIMER AND A MINIMUM OF TWO COATS OF PAINT SHALL BE APPLIED

TO LEVEL FOUR FINISHED DRYWALL SURFACES IN A PROFESSIONAL MANNER SUCH AS TO

PROVIDE A SMOOTH WASHABLE FINISHED SURFACE.

FINISH TRIM CARPENTER TO INSTALL RED CEDAR BOARDS IN RECESSED WALL CAVITIES. (NOTE: RECESS IS CREATED BY THICKNESS OF 5/8" DRYWALL) RED CEDAR BOARD TO BE FLUSH TO FINISHED GYP BOARD WHEN INSTALLED. AT AREAS THAT ARE TIGHT TO CEILING OR AT ADJACENT WALLS, TRANSITION FROM SIDING TO WALL OR CEILING SHOULD BE FIT TO CREATE AN EVEN FINISHED APPEARANCE. TOP RED CEDAR BOARD MAY BE RIPPED FOR PROPER FITMANT. DRYWALL TO BE CAPPED WITH U-CHANNEL TO CREATE A CLEAN STRAIGHT CLEAN EDGE TRANSITION FROM THE DRYWALL TO THE CEDAR BOARDS. U-CHANNEL MUST NOT BE VISIBLE. FLOAT MUD TO HIDE U-CHANNEL TRANSITION, PAINT TO MATCH ADJACENT WALL, INCLUDING INSIDE EDGE OF U-CHANNEL IN THE RECESS. EDGE CUTS TO BE STRAIGHT AND STACKING FOR AN EVEN FINISHED APPEARANCE. GC TO LEAVE & GAP BETWEEN CEDAR BOARDS AND AT TRANSITION TO GYP BOARD. OWNER TO SUPPLY CEDAR BOARD MATERIAL IN 8' AND 10' LINEAR LENGTHS TO BE CUT AND FIT ONSITE BY GC AS NEEDED RIPPED CEDAR BOARD TO BE AT THE TOP OF THE CEDAR-— §" GYPSUM WALL BOARD - 3/4" FIRE TREATED BLOCKING, PAINTED BLACK - 4" RED CEDAR BOARDS WITH 1" GAP (SEE ELEVATIONS). CEDAR TO BE INSTALLED WITH 18 GA NAILS OR SMALLER TO MINIMIZE THE APPEARANCE OF HOLES. CEDAR BOARDS FLUSH TO WALL FACE - 3-5/8" STEEL STUDS INSTALL BLOCKING IN WALL AT CEDAR INLAY LOCATIONS. BLOCKING AND STUD FACE TO BE PAINTED BLACK PRIOR TO INSTALLATION OF CEDAR BOARD. SEE ELEVATIONS FOR ADDITION INFORMATION AND CONFIRMATION OF LOCATIONS TO BE INSTALLED. SEE ADJACENT NOTES. TYPICAL RED CEDAR PANELED WALL

PRIMER: SHERWIN WILLIAMS PROMAR 200 INTERIOR LATEX PRIMER B28W600 SERIES

PAINT: SHERWIN WILLIAMS PROMAR ZERO VOC LATEX SEMI-GLOSS.

TOP COAT: SEE FINISH SCHEDULE

		PERSPIRE – FIN	IICH CCHEDIIIE			
		FLNSFINE - III	NOIL OCHEDOLE			
MAN DESCRIPTION	MANUFACTURER	SERIES PRODUCT NUMBER	COLOR	SUPPLIED BY	INSTALLED BY	NOTES
ACT1 ACOUSTIC CEILING TILE	ARMSTRONG	DUNE 1775 - TEGULAR 24"X24"X5/8"	SUPRAFINE XL 9/16" GRID - FACTORY WHITE	GC	GC	
CF1 POLISHED CONCRETE			SATIN FINISH	GC	GC	GC TO FILL HOLES/CRACKS AND CONCRETE JOINTS, REMOVE STAINING AND GRIND TO SMOOTH, LEVEL B FINISH (AGGREGATE NOT NEEDED) PRIOR TO POLISHING
FRP1 FIBERGLASS REINFORCED PLASTIC	MARLITE	PEBBLED SURFACE	P100 WHITE / WHITE	GC	GC	MOP SINK BACKING
GT1 GROUT	TRUECOLOR OR QUARTZLOCK2	PREMIXED URETHANE GROUT	BRIGHT WHITE	GC	GC	HALLWAY ACCENT WALL
GT2 GROUT	CUSTOM BUILDING PRODUCTS	POLYBLEND #165 NON-SANDED	DELOREAN GRAY	GC	GC	SHOWER FLOORS - THICKNESS 3/16"
GT3 GROUT	CUSTOM BUILDING PRODUCTS	POLYBLEND #60 NON-SANDED	CHARCOAL	GC	GC	SHOWER WALLS - THICKNESS 1/16", BATHROOM WALLS - BATHROOM WALLS - THICKNESS 1/16"
PT1 PAINT	DUNN EDWARDS	GC TO USE SHERWIN WILLIAMS PROMAR200 COLOR MATCH	SWISS COFFEE - EGGSHELL	GC	GC	THROUGHOUT, RESTROOMS
PT2 PAINT	DUNN EDWARDS	GC TO USE SHERWIN WILLIAMS PROMAR200 COLOR MATCH	CASTLEROCK - SEMI-GLOSS	GC	GC	DOORS
PT3 PAINT	DUNN EDWARDS	GC TO USE SHERWIN WILLIAMS PROMAR200 COLOR MATCH	SWISS COFFEE - SEMI-GLOSS	GC	GC	SHOWER CEILING & BASEBOARDS, DOOR TRIMS & JAMBS
T1 PORCELAIN TILE	TRENDY SURFACES	TS667216 12" X 24"	METALLIC BLACK	GC	GC	SHOWER WALLS AND RESTROOM WALLS LAY IN STAGGERED PATTERN CONTACT: LISA LE; LISA@TRENDYSURFACEINC.COM (714-284-0118)
T2 GLAZED PORCELAIN FLOOR TILE	DALTILE	SLATE ATTACHED 12" X 24"	META DARK GRAY SA07	GC	GC	SHOWER FLOORS (TILE TO BE PROPERLY ANGLED TO THE SHOWER DRAIN LOCATION) LAY IN STACKED PATTERN
T6 PENNYROUND MOSAIC TILE	INDOTEAK DESIGN	1ANTNATRMW	NATURAL TEAK, RESIN FINISH	GC	GC	HALLWAY ACCENTW ALL, GC TO PRESEAL TILES WITH BONA NOVIA FLOOR FINISH 1 DAY PRIOR TO GROUTING CONTACT: KIM GRANNIS 858.271.9801, KIM@INDOTEAKDESIGN.COM
T7 TILE CAP	SCHLUTER	RONDEC-DB	AE SATIN ANONDIZED ALUMINUM	GC	GC	SHOWER WALLS RUN VERTICALLY AT WALL TILE TRANSITION ALONG ENTRANCES AND AT TILED OUTSIDE CORNER
WB1 WOOD BOARD (1" X 6" MDF)	GC TO SOURCE LOCALLY	GC TO SOURCE LOCALLY	GC TO SOURCE LOCALLY	GC	GC	PAINTED PT3 THROUGHOUT
WB2 WOODBOARD (1" X 6" POPLAR OR EQUAL)	GC TO SOURCE LOCALLY	GC TO SOURCE LOCALLY	GC TO SOURCE LOCALLY	GC	GC	PAINTED PT3, RESTROOMS AND SHOWER SAUNA ROOMS
WP1 WALLPAPER	COLOR AND DESIGN	COLOURWAYS III	CD-CRW-330	GC	GC	INSTALL FLOOR TO CEILING
WS1 WOOD SIDING	FCD	1X4 NOMINAL WESTERN RED CEDAR	GRADE A RAW WOOD	FCD	GC	SEE ELEVATIONS — RECESSED INTO DRYWALL 1/8" GAP BETWEEN EACH PIECE OF SIDING

*NOTE: NOT ALL FINISHES ARE NECESSARILY IN USE.

*NOTE: OWNER TO INSTALL SAUNAS, VARNISH SAUNAS, AND INSTALL SAUNA SIGNAGE.
*NOTE: OC TO PAINT ALL PECESSED FIRE TREATED BOARDS AND AND EXPOSED STUD FACE WITH BLACK PAINT IN AN ECCSHELL FIRE

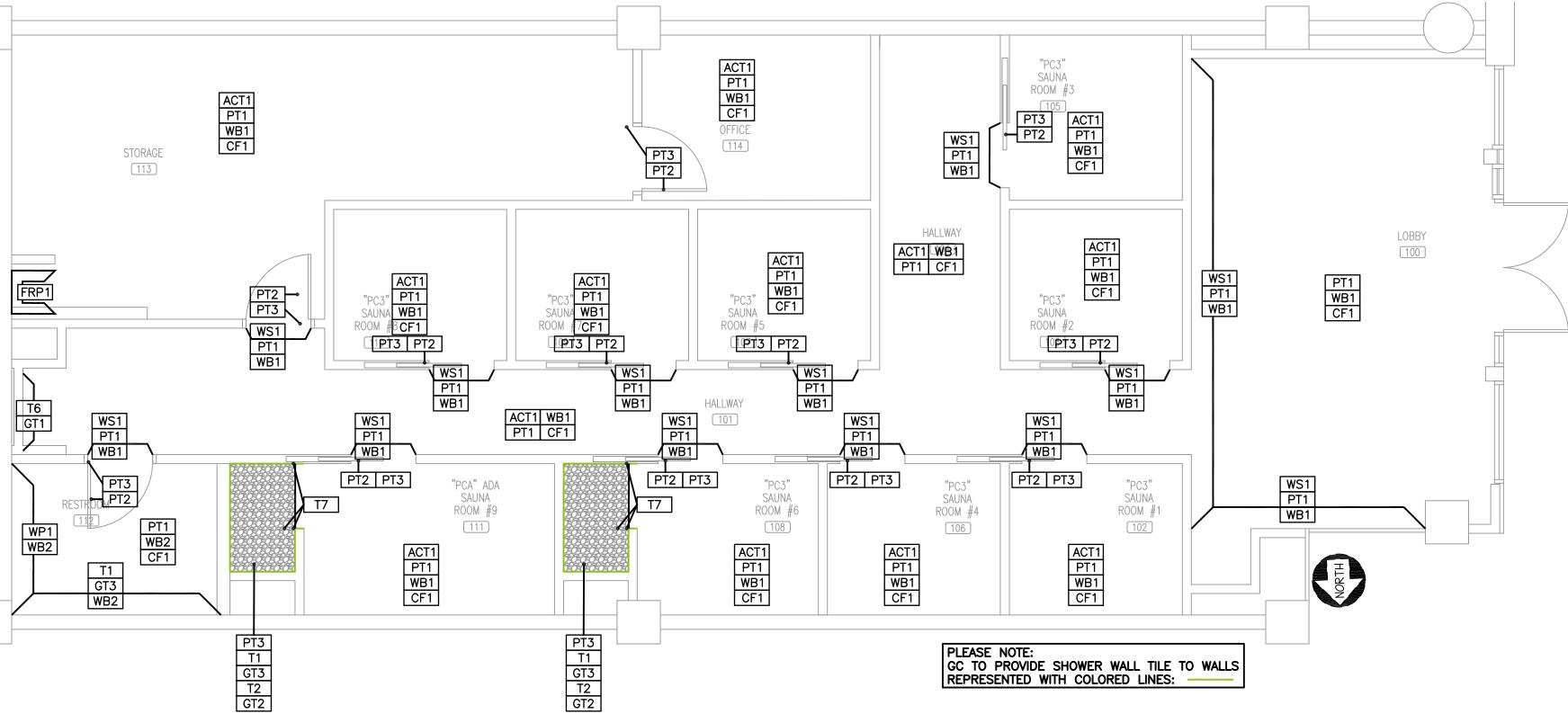
*NOTE: GC TO PAINT ALL RECESSED FIRE TREATED BOARDS AND AND EXPOSED STUD FACE WITH BLACK PAINT IN AN EGGSHELL FINISH PRIOR TO APPLYING THE CEDAR SIDING.

*NOTE: T6 REQUIREMENT — GC TO PRE—SEAL TILES WITH BONA NOVIA FLOOR FINISH 1 DAY PRIOR TO GROUTING TEAK TILES. GC MUST ENSURE THE GROUT IS FULLY CLEANED OUT OF THE MOSAIC PENNY ROUND TEAK TILE AND SHOULD ENSURE ADEQUATE TIME AND COST TO THE PROJECT FOR TILES TO BE FULLY CLEANED OF ANY GROUT OR HAZING AT TIME OF APPLICATION. THIS IS A PROGRAM REQUIREMENT. A SOFT BRISTLE BRUSH SHOULD BE USED TO REMOVE THE EXCESS GROUT AT TIME OF

APPLICATION, PRIOR TO DRYING. ONCE HARDENED, GROUT ON TILES WILL NOT BE REMOVABLE AND WILL CREATE AN UNFAVORABLE FINISH.

*NOTE: GC TO SUPPLY MINWAX GOLDEN OAK STAIN AND CLEAR VARNISH FOR ANY CEDAR TOUCHUPS REQUIRED UPON INSTALLATION AND TO RESEAL ANY CUT ENDS.

WALL SURFACE TEXTURE
THE REQUIRED WALL TEXTURE FOR SUCCESSFUL GRAPHIC APPLICATION AND ADHESION IS SMOOTH, PROPERLY PRIMED, PAINTED, AND CURED WALL BOARD THAT HAS LITTLE OR NO SURFACE VARIATION (LEVEL 4 FINISH). CERTAIN TYPES OF IMPERFECTIONS IN THE WALL WILL BE SEEN AFTER THE WALLPAPER IS APPLIED. OUR INSTALLATION CREWS CAN NOT BE GIVEN THE AUTHORITY TO PUT A HOLD ON A PROJECT OR DETERMINE IF THE WALL IS A LEVEL 4 FINISH. CONTRACTOR/FRANCHISEE/DECISION MAKER AGREES THAT THE WALL WILL BE PREPARED TO SPECIFICATIONS WHEN OUR TEAMS ARE SCHEDULED TO ARRIVE. 5 LEVELS OF DRYWALL FINISHES LEVEL 0: LEVEL 0 IMPLIES THAT NO FINISH OF ANY TYPE HAS BEEN DONE. THE DRYWALL IS ONLY FASTENED TO THE WALLS OR CEILING. LEVEL 1: EMBED YOUR DRYWALL JOINT TAPE IN JOINT COMPOUND. LEVEL 2: SKIM A THIN COAT OF JOINT COMPOUND OVER THE TAPE. COVER DRYWALL SCREW HOLES. LEVEL 3: APPLY A COAT OF JOINT COMPOUND TO THE TAPE AND SCREWS. LEVEL 4: APPLY ANOTHER COAT OF JOINT COMPOUND TO THE TAPE AND SCREWS. SAND. LEVEL 5: APPLY ANOTHER COAT OF JOINT COMPOUND TO THE TAPE AND SCREWS. SAND. ALL GRAPHICS & MURALS REQUIRE A LEVEL 5 FINISH WALL SURFACE PREPARATION REPAIR ANY EXISTING WALL DAMAGE (HOLES, LOOSE JOINTS, CHIPPED OR PEELING PAINT) TO LEVEL 4 FINISH. CLEAN THE WALL PRIOR TO PRIMING AND PAINTING. <u>Primer and Paint</u> TWO COATS OF PRIMER REQUIRED. LET THE PRIMER DRY PER MANUFACTURE SPECIFICATIONS BEFORE APPLYING TOP COAT. TINTED PRIMERS MAY CAUSE BLEED THROUGH ISSUES AND SHOULD NOT BE USED. DO NOT USE MATTE PAINT OR PAINT WITH SILICONE, WAXES, GRAFFITI-RESISTANT, OR TEXTURIZING ADDITIVES. USE A SHORT NAP (1/4") ROLLER. ALLOW THE FINAL CÒÁT ÓF PAINT TO DRY FOR AT LEAST FIVE DAYS BEFORE APPLYING GRAPHICS. UNDER-CURED PAINT MAY CONTINUE TO OUTGAS AND CAUSE BUBBLES UNDER GRAPHICS SEVERAL DAYS AFTER THE INSTALL IS COMPLETE DESPITE A SMOOTH INSTALLATION. USE THE FOLLOWING PAINT AND PRIMERS: (PAINT AND PRIMER SHOULD CREATE A BOND THAT WON'T RELEASE WHEN ADHESIVES ARE APPLIED)



FLOOR & WALL FINISH PLAN
SCALE: 1/4"=1'-0"

CONTRACTOR SHALL FIELD VERIFY ALL
EXISTING CONDITIONS AND DIMENSIONS
PRIOR TO BID AND REPORT ANY
DISCREPANCIES BACK TO OWNER.
G.C. SHALL COORDINATE ALL SUB
CONTRACTORS AND ENSURE A COMPLETE
FULLY CODE COMPLIANT AND
PROFESSIONALLY FINISHED TENANT SPACE.

ISSUED / REVISIONS:

ENGINEERING AND DESIGN PLLC

ENGINEERING AND DESIGN PLLC

HWY 3630

E-Mail: eric@emrengineers.c

Web Address: emrendineer



PEBSPIBE SAUNA STUDIO

CHECKED BY: Staff
DRAWN BY: Staff
DATE: SEPTEMBER 12, 2023
SCALE: PER PLAN

DRAWN BY: Staff

DATE: SEPTEMBER 12,

SCALE: PER PLAN

PROJECT No.: PSS 2401

SHEET TITLE

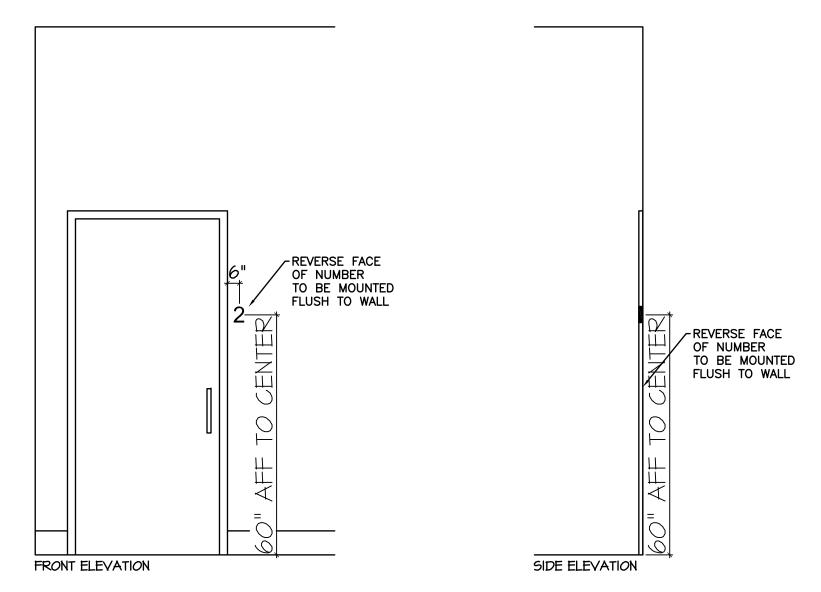
WALL &

FLOOR

FLOOR FINISH PLAN

	PERSPIRE	- GRAPHICS	SCHE	DULE	
ITEM NUMBER	DESCRIPTION	MOUNTING HEIGHT	SUPPLIED BY	INSTALLED BY	RECEIVED BY
G1	PERSPIRE LOGO	+70" AFF TO CENTER	OWNER	OWNER	OWNER
G2	TOWEL DROP SIGN	+40" AFF TO CENTER	OWNER	OWNER	OWNER

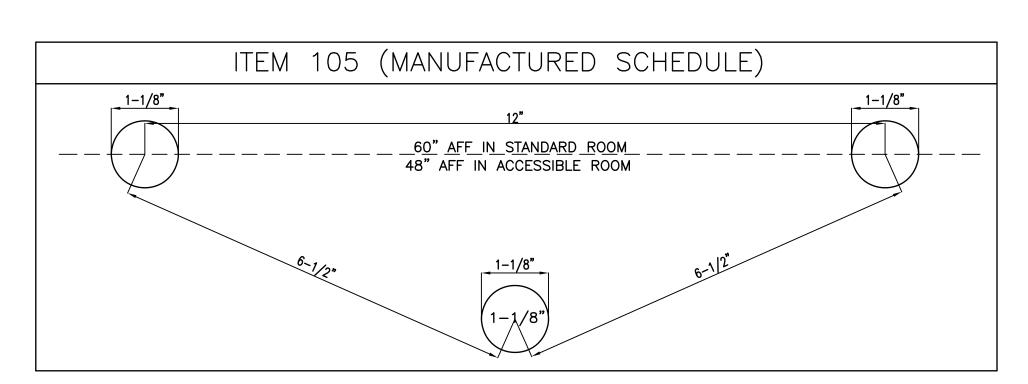
*NOTE: NOT ALL GRAPHICS ARE NECESSARILY IN USE.
*NOTE: GC TO CONFIRM PAINT FINISH WITH GRAPHIC PROVIDER.



*GC TO PRE-DRILL AND ADHESIVE NUMBERS TO THE WALL TO LAY FLAT TO THE WALL. SIMILAR TO A PIN MOUNTED INSTALLATION. MFG SUPPLIED ANCHORS TO BE DISCARDED, NOT NEEDED FOR THIS TYPE OF INSTALLATION.

2 ROOM NUMBER INSTALLATION DETAIL N.T.S

	PERSPIRE - MANUFACTURED PRODUCTS SCHEDULE										
	PERSPIRE -	- MANU	F A	<u> </u>		J PRODUCIS SCHEDULE					
ITEM#	DESCRIPTION	PRODUCT NUMBER	SUPPLIED BY	INSTALLED BY	RECEIVED BY	NOTES					
100	SAUNA ROOM FLOATING SHELF		FCD		GC						
105	WOODEN DOWEL HOOKS (SET OF 3)	PSS105	FCD	GC		(1) SET PER SAUNA ROOM, LOCATION TBD BY OWNER MOUNTED AT +80" AFF IN STANDARD ROOMS, +48" AFF IN ADA SAUNA ROOMS					
410	BACKLIT RESTROOM MIRROR	PSS410	FCD	GC	GC						
436	VANITY FINISHED BOTH	PSS436	FCD	GC	GC	GC TO PROVIDE AND INSTALL FLOATING BRACKET AT TIME OF FRAMING SEE DETAIL ON FRAMING SHEET AND CONFIRM LOCATION AT TIME OF INSTALL					
1120_04	WALL CEDAR SIDING LUMBER 4FT WIDE	PSS1120_04	FCD	GC	GC	SEE FINISH SCHEDULE AND ELEVATIONS FOR LOCATIONS OF INSTALL AND DETAIL ON FRAMING SHEET					
1120_05	WALL CEDAR SIDING LUMBER 5FT WIDE	PSS1120_05	FCD	GC	GC	SEE FINISH SCHEDULE AND ELEVATIONS FOR LOCATIONS OF INSTALL AND DETAIL ON FRAMING SHEET					
1120_08	WALL CEDAR SIDING LUMBER 8FT WIDE	PSS1120_08	FCD	GC	GC	SEE FINISH SCHEDULE AND ELEVATIONS FOR LOCATIONS OF INSTALL AND DETAIL ON FRAMING SHEET					
1120_10	WALL CEDAR SIDING LUMBER 10FT WIDE	PSS1120_10	FCD	GC	GC	SEE FINISH SCHEDULE AND ELEVATIONS FOR LOCATIONS OF INSTALL AND DETAIL ON FRAMING SHEET					
3003	RECEPTION CEDAR PANEL	PSS3003	FCD	GC	GC						
3008	RECEPTION ADA RIGHT	PSS3008	FCD	GC	GC						
3013	LOBBY RETAIL DISPLAY	PSS3013	FCD	GC	GC						
3301	HALLWAY TOWEL DISPOSABLE BASE	PSS3301	FCD	GC	GC	FACE AND DOORS TO BE PAINTED PT2					
3528	MANAGER'S DESK COUNTERTOP	PSS3528	FCD	GC	GC	2 BRACKETS INCLUDED FOR GC TO INSTALL					
	SLIDING SAUNA POCKET DOOR	PSS DOOR	FCD	GC	GC	PRE-FINISHED/PRE-CORED SLAB: SEE DETAIL ON NEW WALL CONSTRUCTION PLAN					



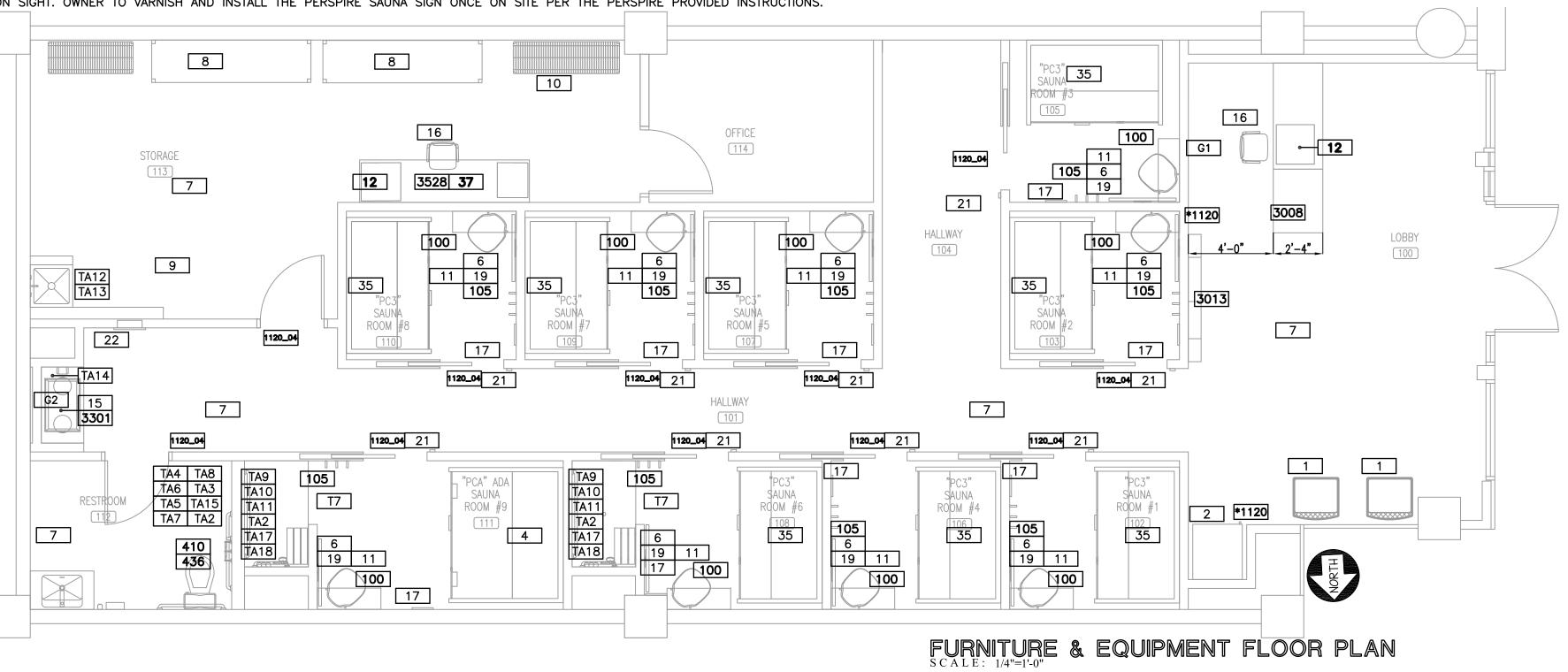
	PERSPIRE — TOILET ACCESSORIES									
ITEM#	DESCRIPTION	MANUFACTURER	PRODUCT SERIES	PRODUCT NUMBER	SUPPLIED BY	INSTALLED BY	NOTES			
TA2	STAINLESS STEEL GRAB BARS	BOBRICK	B6806 SERIES	1-1/2" DIA WITH SNAP FLANGE	GC	GC	36", 42", AND 18" LENGTHS			
TA3	WALL MOUNTED PAPER TOWEL DISP	CINTAS	SIGNATURE SERIES	STAINLESS STEEL / SILVER	OWNER	OWNER				
TA4	WALL MOUNTED SOAP DISP	CINTAS	SIGNATURE SERIES	STAINLESS STEEL / SILVER	OWNER	OWNER				
TA5	TOILET TISSUE DISPENSER	CINTAS	SIGNATURE SERIES	STAINLESS STEEL / SILVER	OWNER	OWNER				
TA6	RESTROOM SINK	KOHLER	VOX 22" VESSEL SINK WITH OVERFLOW	K-2660-1-0 (WHITE)	GC	GC	FCD TO PROVIDE VANITY, GC TO PROVIDE & INSTALL VANITY BRACKET SUPPORT AT TIME OF FRAMING			
TA7	ELONGATED TOILET	ZURN	2 PIECE, WHITE, STAINLESS STEEL HANDLE	Z5560	GC	GC	FLOOR MOUNTED			
TA8	RESTROOM FAUCET & DRAIN	AMERICAN STANDARD	PARADIGM SELECTRONIC FAUCET	702B115.295 (BRUSHED NICKEL)	GC	GC	ELECTRICAL OUTLET TO BE LOCATED UNDER THE SINK VANITY.			
TA9	WALL MOUNTED 3 COMPARTMENT SOAP DISPENSER	ANSELF	CHUANGDIAN	B075F7HR8G	GC	GC				
TA10	HANDSHOWER KIT	KOHLER	AWAKEN G110	K-99243-G-BN	GC	GC				
TA11	SHOWER VALVE	KOHLER	PITCH	K-TS74042-4-BN	GC	GC				
TA12	MOP SINK	FIAT OR EQUAL	MOLDED STONE OR EQUAL	MSB2424 OR EQUAL	GC	GC				
TA13	MOP SINK FAUCET	T&S BRASS OR EQUAL	WALL MOUNT	B-0665-BSTR OR EQUAL	GC	GC				
TA14	AUTOMATIC HAND SANITIZER DISPENSER	CINTAS	SIGNATURE SERIES	STAINLESS STEEL / SILVER	OWNER	OWNER	AT TOWEL DROP			
TA15	TOILET SEAT COVER DISPENSER	BOBRICK	CLASSIC SERIES	B-4221	GC	GC				
TA16	SINGLE HANDLE SHOWER PVD	FONTAINE BY ITALIA	HOTEL DE VILLE COLLECTION	MFF-HVS-BN	GC	GC				
TA17	SHOWER DRAIN	KOHLER	CLEARFLO TILE-IN	K-9136BN	GC	GC	INSTALL SURE SEAL WATERLESS TRAP PREMIER AND DEEP SEAL TRAP			
TA18	SHOWER SEAT	ALFI	TEAK WOOD WALL MOUNT SHOWER SEAT (ADA COMPLIANT)	ABS16S-PC	GC	GC				

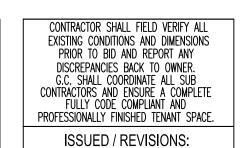
	PLEASE NOTE: NOT ALL ACCESSORIES ARE NECESSARILY IN US
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	PERSF	PIRE – FURNIT	URE & EQUIP	MENT	SCHEDU	JLE	
ITEM#	DESCRIPTION	MANUFACTURER	SKU NUMBER	SUPPLIED BY	INSTALLED BY	RECEIVED BY	NOTES
1	GUEST CHAIR	FCD PROCUREMENT	FCD PROCUREMENT	FCD	GC	GC	
2	REACH-IN REFRIGERATOR	PREMIUM LEVELLA	PRF125DX	OWNER	GC	GC	12.5 CU FT
4	PCA (ADA) SAUNA - 77" X 64.5" X 83.7"	CLEARLIGHT	сиѕтом	OWNER	OWNER	GC	OWNER TO VARNISH AND INSTALL PERSPIRE SAUNA SIGN GC TO DISPOSE OF PACKAGING
6	TELEVISION	SAMSUNG SERIES 7 43"	UN43TU7000FXZA	OWNER	GC	GC	
7	SAROS INTEGRATOR 6.5" 2-WAY IN-CEILING SPEAKER	SAROS	SAROS ICI6T	OWNER	OWNER	OWNER	
8	STORAGE RACK (TOWELS)	HUSKY	ERZ902490W-5	OWNER	GC	GC	
9	STORAGE RACK (18X48)	ULINE	H-2941-72	OWNER	GC	GC	
10	STORAGE RACK (18X60)	ULINE	H-2941-72	OWNER	GC	GC	
11	CHANGING ROOM CHAIR	PSS CORP. ASSIST.	OWNER	OWNER	GC	GC	
12	UNDER COUNTER FRIDGE	MAGIC CHEF	MCAR240SE2	OWNER	GC	GC	BELOW POS
13	CASH DRAWER	PSS CORP. ASSIST.	OWNER	OWNER	GC	GC	
15	TOWEL DROP BIN	PSS CORP. ASSIST.	OWNER	OWNER	GC	GC	
16	STOOL - FRONT DESK	PSS CORP. ASSIST.	OWNER	OWNER	GC	GC	
17	WALL MIRROR 12" X 48" (ROUNDED AND POLISHED)	GC TO PROVIDE LOCALLY	GC TO PROVIDE LOCALLY	GC	GC	GC	MIRROR TO BE ATTACHED TO WALL WITH ADHESIVE AND A SMALL RUST RESISTANT METAL U—CHANNEL AT THE BASE
19	DUAL ARM SWINGOUT MOUNT FOR FLAT PANEL DISPLAYS	CRIMSON AV	AU42	OWNER	GC	GC	
20	RETAIL BAR	FCD PROCUREMENT	FCD PROCUREMENT	FCD	GC	GC	
21	ROOM NUMBERS	FCD PROCUREMENT	FCD PROCUREMENT	FCD	GC	GC	TO BE INSTALLED AT +60" AFF TO TOP OF NUMBER AND 3" TO EDGE OF NUMBER FROM DOOR CASING
22	FILTERED WATER DISPENSER (BUILT-IN)	ELKAY	LBWD06 - WHITE	GC	GC	GC	
35	SAUNA (PC3) - 77" X 48" X 83.7"	CLEARLIGHT	сиѕтом	OWNER	OWNER	GC	OWNER TO VARNISH AND INSTALL PERSPIRE SAUNA SIGN
37	UNDER COUNTER FRIDGE	MAGIC CHEF	HMAR170STE	OWNER	GC	GC	BELOW MANAGER'S DESK
38	FRAMED OUT WALL MIRROR 42" X 84"	GC TO PROVIDE LOCALLY	GC TO PROVIDE LOCALLY	GC	GC	GC	TRIM TO MATCH DOOR CASING, PAINTED PT3, INSTALLED DIRECTLY ABOVE THE WALL BASE.

*NOTE : OWNER SUPPLIED ITEMS ARE SUBJECT TO CHANGE.

GC TO ACCEPT DELIVERY OF SAUNAS FROM CLEARLIGHT AND DISPOSE OF ALL SAUNA PACKAGING MATERIALS. SAUNAS TO BE COORDINATED ON A SINGLE OR MULTIPLE SHIPMENTS. OWNER TO INSTALL ONCE ON SIGHT. OWNER TO VARNISH AND INSTALL THE PERSPIRE SAUNA SIGN ONCE ON SITE PER THE PERSPIRE PROVIDED INSTRUCTIONS.





ENGINEERING AND DESIGN PLLC

213 (Mailing) Fax (606)—364—2886

WY 3630 E—Mail: eric@emrengineers.com

Web Address: emrengineers.com



PERSPIRE SAUNA STUDIO

2450 SOUTH UNIVER SUITE D1 DENVER, CO 80210

CHECKED BY: Staff

DRAWN BY: Staff

DATE: SEPTEMBER 12, 2023

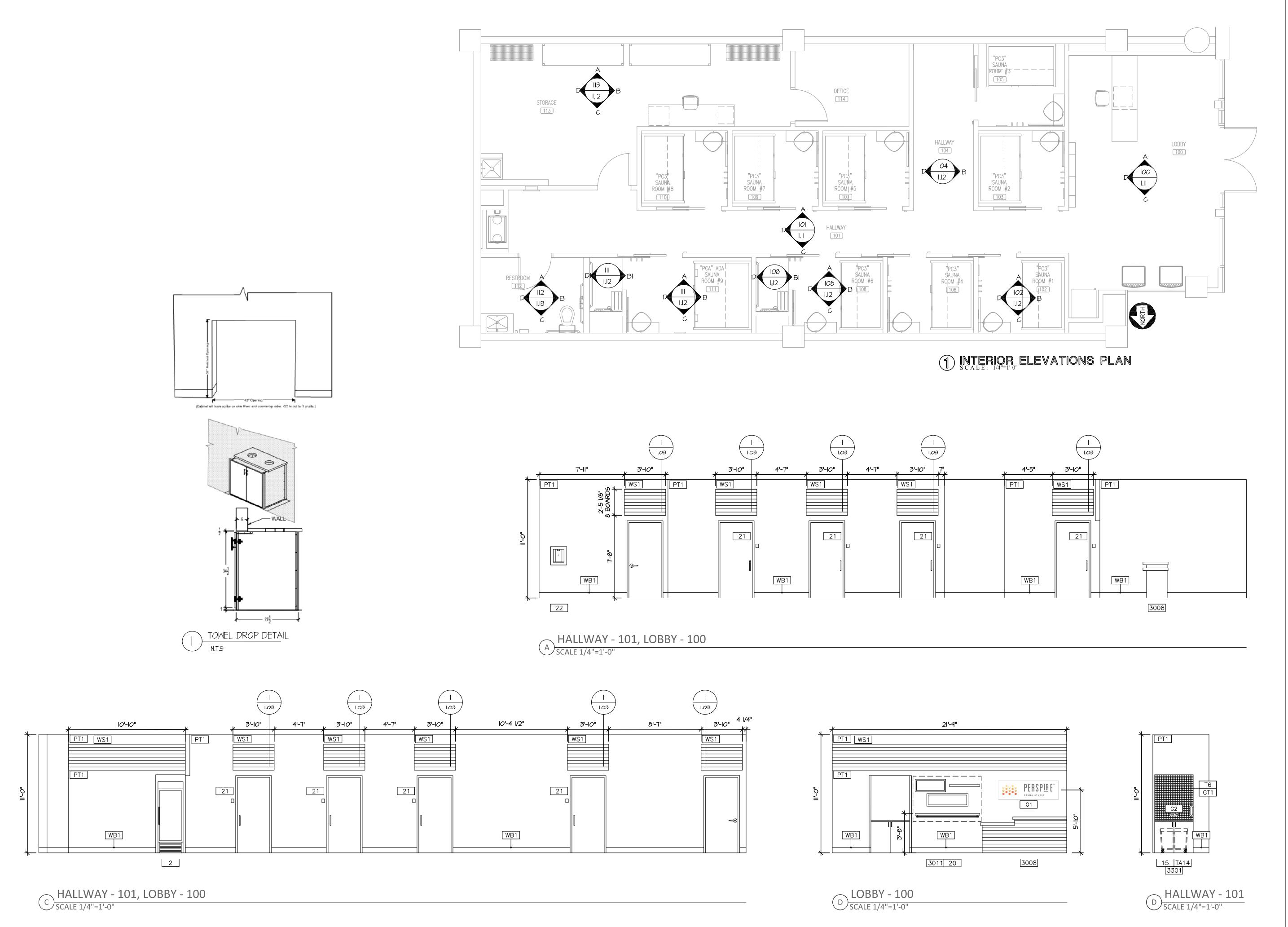
SCALE: PER PLAN

PROJECT No.: PSS 2401

SHEET TITLE

FURNITURE PLAN

SHEET No.



CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BID AND REPORT ANY DISCREPANCIES BACK TO OWNER. G.C. SHALL COORDINATE ALL SUB CONTRACTORS AND ENSURE A COMPLETE FULLY CODE COMPLIANT AND PROFESSIONALLY FINISHED TENANT SPACE. ISSUED / REVISIONS:



PERSPIR SAUNA STUDIO

2450 SOUTH UNIVERS SUITE D1 DENVER, CO 80210 000 000 000 CHECKED BY: Staff
DRAWN BY: Staff
DATE: SEPTEMBER 12, 2023 DATE: SEPTEMBER
SCALE: PER PLAN
PROJECT No.: PSS 2401

INTERIOR ELEVATIONS



CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BID AND REPORT ANY DISCREPANCIES BACK TO OWNER. G.C. SHALL COORDINATE ALL SUB CONTRACTORS AND ENSURE A COMPLETE FULLY CODE COMPLIANT AND PROFESSIONALLY FINISHED TENANT SPACE. ISSUED / REVISIONS:



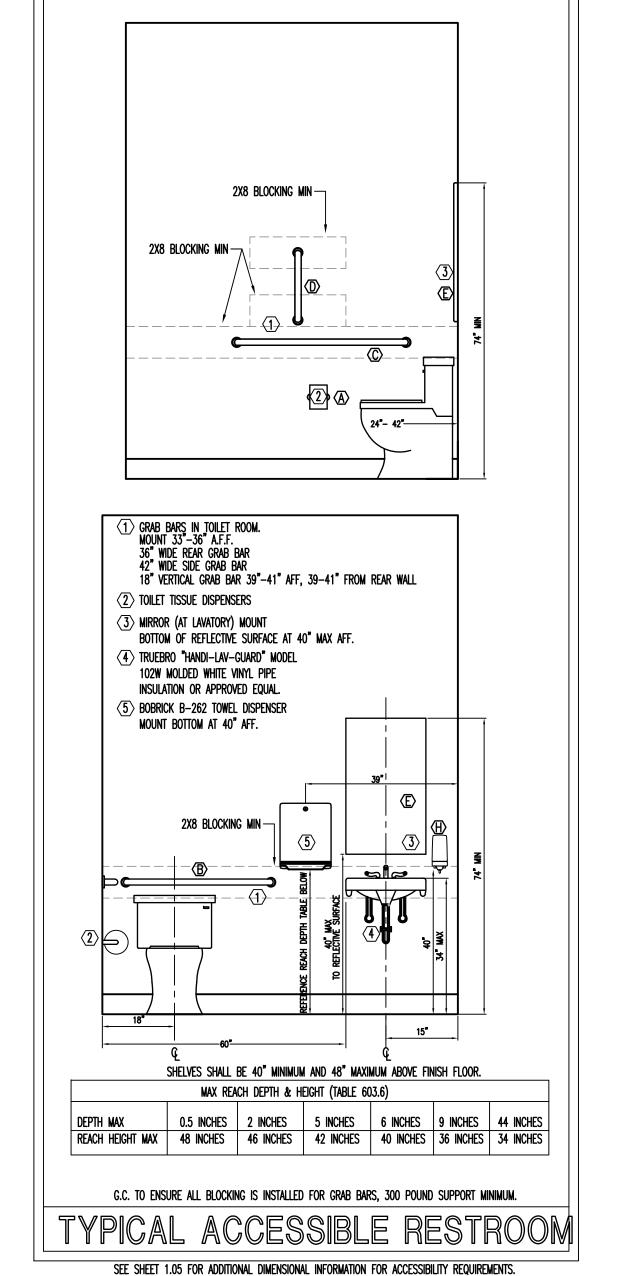
PERSPIR SAUNA STUDIO 2450 SOUTH UNIVERS SUITE D1 DENVER, CO 80210

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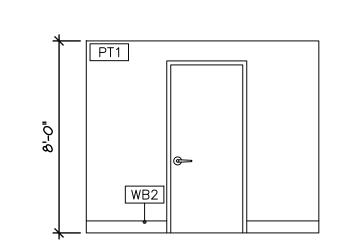
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PROJECT No.: PSS 2401

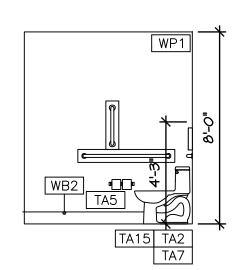
INTERIOR ELEVATIONS

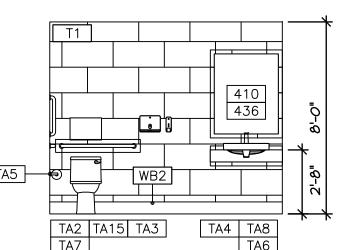


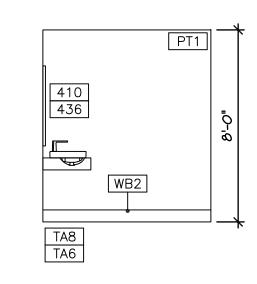
PERSPIRE - TOILET ACCESSORIES SUPPLIED BY INSTALLED BY SALOA PRODUCT SERIES MANUFACTURER PRODUCT NUMBER ITEM# |DESCRIPTION GC GC 36", 42", AND 18" LENGTHS STAINLESS STEEL GRAB BARS B6806 SERIES 1-1/2" DIA WITH SNAP FLANGE BOBRICK WALL MOUNTED PAPER TOWEL DISP CINTAS SIGNATURE SERIES STAINLESS STEEL / SILVER OWNER OWNER WALL MOUNTED SOAP DISP CINTAS SIGNATURE SERIES STAINLESS STEEL / SILVER OWNER OWNER CINTAS SIGNATURE SERIES STAINLESS STEEL / SILVER TOILET TISSUE DISPENSER OWNER OWNER FCD TO PROVIDE VANITY, GC TO PROVIDE & INSTALL K-2660-1-0 (WHITE) RESTROOM SINK KOHLER VOX 22" VESSEL SINK WITH OVERFLOW VANITY BRACKET SUPPORT AT TIME OF FRAMING GC GC FLOOR MOUNTED ELONGATED TOILET ZURN 2 PIECE, WHITE, STAINLESS STEEL HANDLE Z5560 702B115.295 (BRUSHED NICKEL) GC RESTROOM FAUCET & DRAIN AMERICAN STANDARD PARADIGM SELECTRONIC FAUCET ELECTRICAL OUTLET TO BE LOCATED UNDER THE SINK VANITY. WALL MOUNTED 3 COMPARTMENT SOAP DISPENSER ANSELF B075F7HR8G GC GC CHUANGDIAN GC GC TA10 HANDSHOWER KIT AWAKEN G110 K-99243-G-BN KOHLER TA11 K-TS74042-4-BN GC GC SHOWER VALVE KOHLER GC GC TA12 MOP SINK FIAT OR EQUAL MOLDED STONE OR EQUAL MSB2424 OR EQUAL GC GC TA13 MOP SINK FAUCET T&S BRASS OR EQUAL WALL MOUNT B-0665-BSTR OR EQUAL CINTAS SIGNATURE SERIES STAINLESS STEEL / SILVER OWNER OWNER AT TOWEL DROP AUTOMATIC HAND SANITIZER DISPENSER GC GC CLASSIC SERIES TOILET SEAT COVER DISPENSER BOBRICK B-4221 FONTAINE BY ITALIA HOTEL DE VILLE COLLECTION MFF-HVS-BN SINGLE HANDLE SHOWER PVD INSTALL SURE SEAL WATERLESS TRAP PREMIER AND DEEP SEAL TRAP TA17 KOHLER CLEARFLO TILE-IN K-9136BN SHOWER DRAIN ABS16S-PC TA18 SHOWER SEAT

PLEASE NOTE: NOT ALL ACCESSORIES ARE NECESSARILY IN USE









A B C D REST ROOM - 112 (TYPICAL)

SCALE 1/4"=1'-0"

RESTROOM ACCESSORIES SUPPLIED AND INSTALLED BY G.C. UNLESS NOTED OTHERWISE. (A) SURFACE-MOUNTED TWO ROLL TOILET TISSUE DISPENSER CINTAS - SIGNATURE SERIES -STAINLESS STEEL/SILVER (B) 36"W STAINLESS STEEL GRAB BAR, 1-1/2" DIAMETER, 1-1/2" CLEARANCE TO WALL BOBRICK MODEL #B-6806.99 X 36, (PEENED NON-SLIP GRIPPING SURFACE).

© 42"W STAINLESS STEEL GRAB BAR, 1-1/2" DIAMETER, 1-1/2" CLEARANCE TO WALL BOBRICK MODEL #B-6806.99 X 42, (PEENED NON-SLIP GRIPPING SURFACE). (D) 18"W STAINLESS STEEL GRAB BAR, 1-1/2" DIAMETER, 1-1/2" CLEARANCE TO WALL BOBRICK MODEL #B-6809.99 X 18 (PEENED NON-SLIP GRIPPING SURFACE)

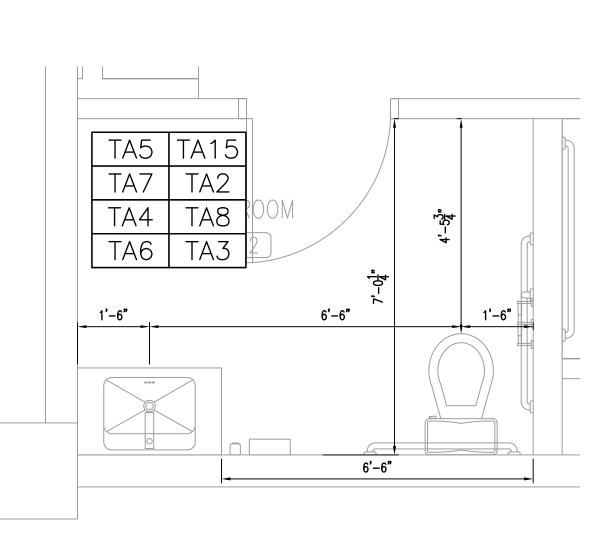
⟨E⟩ MIRROR - 24" X 36" CUSTOM - FCD

PAPER TOWEL DISPENSER - CINTAS - SIGNATURE SERIES -STAINLESS STEEL/SILVER

© NOT USED

(H) SOAP DISPENSOR - CINTAS - SIGNATURE SERIES -STAINLESS STEEL/SILVER

ENLARGED RESTROOM S C A L E : 1/2"=1'-0"



 \Box 4 000 000 000 000 000 CHECKED BY: Staff DRAWN BY: Staff DATE:
SCALE: SEPTEMBER 12, 2023 PER PLAN

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BID AND REPORT ANY

DISCREPANCIES BACK TO OWNER.
G.C. SHALL COORDINATE ALL SUB
CONTRACTORS AND ENSURE A COMPLETE
FULLY CODE COMPLIANT AND
PROFESSIONALLY FINISHED TENANT SPACE.

ISSUED / REVISIONS:

TOILET ROOM **ELEVATIONS**

PROJECT No.: PSS 2401

Ⅲ SHEET TITLE

GENERAL CONDITIONS

- 1. THE GENERAL CONTRACTOR SHALL VERIFY ALL CONDITIONS AND MEASUREMENTS ON THE JOB AND SHALL BE STRICTLY RESPONSIBLE FOR THE SAME. ANY QUESTIONS AND OR DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE FCDADSON PRIOR TO START OF WORK AT JOB SITE.
- 2. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE WORK OF ALL MASONRY, CARPENTRY, PLUMBING, HEATING, VENTILATING AND AIR CONDITIONING AND ELECTRICAL TRADES AND FOR THE COORDINATION OF THE WORK.
- 3. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE WORK OF ALL EMPLOYEES, WHETHER HIS OWN, HIS SUBCONTRACTOR, OR THEIR EMPLOYEES.
- 4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL WORKMEN ON THIS PROJECT. ALL CONTRACTORS AND THEIR SUBCONTRACTORS DOING WORK UNDER THIS CONTRACT SHALL CARRY LIABILITY AND PROPERTY DAMAGE INSURANCE AGAINST ACCIDENTS OF ALL KINDS AND THE OWNER AND FCDADSON SHALL BE FURNISHED WITH CERTIFICATES OF SAID INSURANCE. CONTRACTORS SHALL FOLLOW THE SAFETY PROCEDURES IN CONNECTION WITH THE WORK OF THIS PROJECT. THIS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- 5. ALL WORK SHALL BE GUARANTEED BY THIS CONTRACTOR FOR A PERIOD OF ONE YEAR AFTER THE CERTIFICATE OF OCCUPANCY, CERTIFIED IN WRITING TO THE OWNER BY THE CONTRACTOR.
- 6. THE CONTRACTOR SHALL LEAVE THE BUILDING COMPLETELY FREE OF DUST AND READY FOR OCCUPANCY BY THE OWNER.
- 7. THE CONTRACTOR SHALL PERFORM ALL NECESSARY MEASURES TO ENSURE THAT NO DUST, DIRT OR OTHER CONSTRUCTION DEBRIS ENTERS ANY AREA OF THE BUILDING OTHER THAN THE AREA BEING
- 8. THE CONTRACTOR SHALL PERFORM ALL NECESSARY DEMOLITION AND REMOVALS AS INDICATED ON THE DRAWINGS, BUT NOT LIMITED THERE TO IN ORDER TO COMPLETE THE WORK.
- 9. ALL WORK IN PROGRESS SHALL BE ADEQUATELY BRACED AND PROTECTED UNTIL BUILDING IS COMPLETED.
- 10. COORDINATE ALL DEMOLITION OF THE EXISTING STRUCTURE WITH THE OWNER AND FCDADSON. ENSURE THAT THE STRUCTURAL INTEGRITY OF THE EXISTING BUILDING WILL NOT BE IMPAIRED BY THE DEMOLITION. SHORE EXISTING CONSTRUCTION AS REQUIRED.
- 11. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF THE EXISTING CABINETRY AND APPLIANCES AS WELL AS THE REMOVAL OF PACKAGING FOR THE NEW CABINETRY AND APPLIANCES.
- 12. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL NECESSARY PERMITS, INSPECTIONS AND FINAL CERTIFICATE OF OCCUPANCY.
- 13. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT STATE BUILDING CODE AND ALL LOCAL CODES.
- 14. IF THE CONTRACTOR FAILS TO COMPLETE OR CORRECT ANY OF THE WORK ACCORDING TO THE CONSTRUCTION DOCUMENTS, THE OWNER OR FCDADSON MAY STOP WORK UNTIL THE WORK IS COMPLETED OR CORRECTED.
- 15. THE CONTRACTOR SHALL PROVIDE FREE ACCESS TO THE WORK BY THE OWNER, FCDADSON AND THEIR REPRESENTATIVES AT ALL TIMES.

GENERAL

- 1. PROJECT REQUIREMENTS: VERIFY WITH LANDLORD FOR ALLOWABLE TIMES OF CONSTRUCTION.
- 2. APPLY, OBTAIN, AND PAY FOR ALL PERMITS REQUIRED FOR THE WORK. SUBMIT COPIES OF ALL PERMITS TO OWNER AND TO FCDADSON.
- 3. COMPLY WITH ALL APPLICABLE BUILDING CODES AND RULES OF OTHER REGULATORY AGENCIES.
- 4. VERIFY FIELD DIMENSIONS BEFORE ORDERING FABRICATIONS OR PRODUCTS TO FIT IN PLACE. NOTIFY FCDADSON OF EXISTING CONDITIONS AND DIMENSIONS THAT DIFFER FROM THOSE SHOWN IN THE DRAWINGS.
- 5. UNLESS OTHERWISE NOTED, THE SUBJECT OF ALL IMPERATIVE SENTENCES IN THE SPECIFICATIONS AND THE DRAWINGS IS THE CONTRACTOR. FOR EXAMPLE, "PROVIDE AND INSTALL.." MEANS "CONTRACTOR SHALL PROVIDE AND INSTALL..".
- 6. WHERE THE TERMS "APPROVED EQUAL", "OTHER APPROVED", "OR EQUAL", "ACCEPTABLE", OR OTHER GENERAL QUALIFYING TERMS USED IN THESE NOTES, IT SHALL BE UNDERSTOOD THAT REFERENCE IS MADE TO THE JUDGMENT AND RULING OF ERIC ENGELL P.E., UNLESS APPROVED BY ERIC ENGELL P.E., NO SUBSTITUTIONS WILL BE MADE.
- 7. THE CONTRACTOR SHALL MAINTAIN A CURRENT AND COMPLETE SET OF CONSTRUCTION DRAWINGS ON SITE DURING PHASES OF CONSTRUCTION FOR USE OF ALL TRADES. THE CONTRACTOR SHALL RECORD ALL 'AS-BUILT' CONDITIONS AND SUBMIT COPY TO LANDLORD AND TENANT AT COMPLETION OF JOB. THE CONTRACTOR SHALL MAINTAIN A FIELD TELEPHONE AT THE JOB SITE.

CUTTING AND PATCHING

- 1. CUT AND PATCH AS REQUIRED TO COMPLETE THE WORK FOR:
- VISUAL QUALITY AS DIRECTED BY THE TENANT
 PLUMBING, HVAC, ELECTRICAL, AND COMMUNICATIONS SYSTEMS.
- FIRE RESISTANCE RATINGS.
 INSPECTION, PREPARATION AND PERFORMANCE.
- 2. CUT AND PATCH WITH CARE TO AVOID DAMAGE TO WORK, SAFETY HAZARDS, VIOLATION OF WARRANTY REQUIREMENTS, BUILDING CODE VIOLATIONS, OR MAINTENANCE PROBLEMS.

MATERIALS AND PRODUCTS

- 1. MATCH EXISTING MATERIALS WITH NEW MATERIALS SO THAT PATCHING WORK IN UNDETECTABLE.
- 2. INSPECT FIELD CONDITIONS TO IDENTIFY ALL WORK REQUIRED.
- 3. PERFORM WORK WITH WORKMEN SKILLED IN THE TRADES INVOLVED. PREPARE SAMPLE AREA OF EACH TYPE OF WORK FOR APPROVAL. PROTECT ADJACENT WORK FROM DAMAGE AND DIRT.
- 4. FOR CUTTING WORK, USE PROPER CUTTING TOOLS, NOT CHOPPING TOOLS. MAKE NEAT HOLES. MINIMIZE DAMAGE TO ADJACENT WORK. CHECK FOR CONCEALED UTILITIES AND STRUCTURE BEING CUTTING.
- 5. MAKE PATCHES, SEAMS, AND JOINTS DURABLE AND INCONSPICUOUS. TOLERANCES FOR PATCHING SHALL BE THE SAME AS FOR NEW WORK.
- 6. CLEAN WORK AREAS AND AREAS AFFECTED BY CUTTING AND PATCHING OPERATIONS AS DESCRIBED IN SECTION TITLES CLEANING AND MAINTENANCE DURING CONSTRUCTION AND FINAL CLEANING.

CONSTRUCTION PROCEDURES

1. PROVIDE ADMINISTRATIVE COORDINATION OF ALL WORK, INCLUDING TRAINED, QUALIFIED EMPLOYEES AND SUBCONTRACTORS, AND SUPERVISORY PERSONNEL.

CHANGE ORDER PROCEDURES

- 1. CHANGES IN THE WORK MAY BE REQUIRED WHICH WILL BE AUTHORIZED BY A CHANGE ORDER.
- 2. CHANGE ORDERS, SIGNED BY THE OWNER AND FCDADSON, TO AUTHORIZE CHANGES IN THE WORK WILL INCLUDE EQUIVALENT CHANGES IN THE CONTRACT SUM AND/OR TIME OF COMPLETION.
- 3. CHANGE ORDERS WILL BE NUMBERED IN SEQUENCE AND DATED.
- 4. A REQUEST FOR ESTIMATES FOR POSSIBLE CHANGES IS NOT A CHANGE ORDER OR A DIRECTION TO PROCEED WITH THE PROPOSED CHANGES. THAT CAN ONLY BE AUTHORIZED THROUGH A SIGNED CHANGED ORDER.

CLEANING & MAINTENANCE DURING CONSTRUCTION & FINAL CLEANING

- 1. KEEP THE BUILDING AND SITE WELL ORGANIZED AND CLEAN THROUGH OUT THE CONSTRUCTION PERIOD.
- 2. PROVIDE GENERAL CLEAN UP DAILY AND COMPLETE WEEKLY PICKUP AND REMOVAL OF ALL SCRAP AND DEBRIS FROM THE SITE. EXCEPTION REUSABLE SCRAP SHALL BE STORED IN A NEATLY MAINTAINED, DESIGNATED STORAGE AREA.
- 3. AT COMPLETION OF WORK, REMOVE FROM THE JOB SITE ALL TOOLS AND EQUIPMENT, AND SURPLUS MATERIALS, EQUIPMENT, SCRAP, AND DEBRIS.

4. EXTERIOR OF BUILDING - INSPECT EXTERIOR SURFACES AND REMOVE ALL WASTE MATERIALS, PAINT

- DROPPINGS, SPOTS, STAINS OR DIRT.

 5. INTERIOR OF BUILDING INSPECT INTERIOR SURFACES AND REMOVE ALL WASTE MATERIALS, PAINT,
- DROPPINGS, SPOTS, STAINS OR DIRT.

 6. GLASS CLEAN INSIDE AND OUTSIDE SO THERE ARE NO SPOTS OR DIRT, AND NO SMUDGES OR
- STREAKS REMAINING FROM THE CLEANING PROCESS.

 7. SCHEDULE FINAL CLEANING AS APPROVED BY THE OWNER TO ENABLE OWNER TO ACCEPT A COMPLETELY
- 8. FINAL CLEANING WILL BE COMPARABLE TO THAT PROVIDED BY PROFESSIONAL, SKILLED CLEANERS USING COMMERCIAL GRADE CLEANING MATERIAL. CLEANING MATERIAL WILL BE USED WITH CARE AND WILL BE COMPATIBLE WITH BUILDING MATERIALS AND FINISHES. FINAL CLEANING WILL INCLUDE REMOVAL OF DEBRIS FROM PUBLIC PAVED AREAS ADJACENT TO THE SITE.
- 9. OPERATING HARDWARE MUST PERFORM SMOOTHLY. REPAIR OR REPLACE ANY DEFECTIVE WORK. REDO REPAIRS IF WORK IS STILL DEFECTIVE AS DIRECTED BY THE FCDADSON. CLEAN THE WORK AREA AND REMOVE ALL SCRAP AND EXCESS MATERIALS FROM THE SITE.

GENERAL NOTES

CLEAN WORK AREA.

- THIS PROJECT SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE CURRENT ISSUE OF THE LOCAL CODE AND ANY OTHER CODES HAVING JURISDICTION. CONTRACTOR TO VERIFY ALL CODE REQUIREMENTS BEFORE COMMENCEMENT OF CONSTRUCTION AND BRING ANY DISCREPANCIES BETWEEN THE CODES AND THE CONSTRUCTION DOCUMENTS TO THE ATTENTION OF FCDADSON.
- 2. DETAILS AND SECTIONS ON THE DRAWINGS ARE SHOWN AT SPECIFIC LOCATIONS AND ARE INTENDED TO SHOW GENERAL REQUIREMENTS THROUGHOUT. DETAILS NOTE "TYPICAL" IMPLY ALL CONDITIONS ARE TREATED SIMILAR. MODIFICATIONS ARE TO BE MADE BY THE CONTRACTOR TO ACCOMMODATE MINOR VARIATIONS.
- 3. THE CONTRACTOR SHALL TAKE REASONABLE CARE TO VERIFY AND PROTECT ALL SERVICE LINES AND EXISTING SITE FEATURES FROM DETERIORATION AND DAMAGE.
- 4. OWNER, DESIGNER OR FCDADSON SHALL NOT BE RESPONSIBLE FOR THE SAFETY AND CONSTRUCTION PROCEDURES, TECHNIQUES, OR THE FAILURE OF THE BUILDER TO CARRY OUT THE WORK IN ACCORDANCE WITH THE DRAWINGS OR THE APPLICABLE CODES.
- 5. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY BUILDING PERMITS.
- 6. THE CONTRACTOR SHALL BRING ANY ERRORS AND OMISSIONS WHICH MAY OCCUR IN THE CONTRACT DOCUMENTS TO THE ATTENTION OF FCDADSON IN WRITING. WRITTEN INSTRUCTIONS SHALL BE OBTAINED FROM FCDADSON BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE RESULTS OF ANY ERRORS, DISCREPANCIES, OR OMISSIONS IN THE CONSTRUCTION DOCUMENTS FOR WHICH NOTIFICATION AS INDICATED ABOVE WAS NOT GIVEN.
- 7. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND JOB CONDITIONS AT THE SITE SUFFICIENTLY IN ADVANCE OF THE WORK TO BE PERFORMED TO ASSURE THE ORDERLY PROGRESS OF THE WORK.
- 8. CONTRACTOR SHALL MAINTAIN THE PREMISES CLEAN AND FREE OF ALL TRASH, DEBRIS, AND SHALL PROTECT WORK FROM DAMAGE. SOILING. PAINT OVERSPRAY, ETC.
- 9. ALL EQUIPMENT, FIXTURES, GLAZING, FLOORS, ETC. SHALL BE LEFT CLEAN AND READY FOR OCCUPANCY UPON THE COMPLETION OF THE PROJECT.
- 10. THE DRAWINGS SHALL NOT BE SCALED. FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALE MEASUREMENTS AND LARGER SCALE DETAIL OVER SMALLER SCALE DRAWINGS.
- 11. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS IN THE FIELD. ALL NEW AND EXISTING WORK SHALL BE MODIFIED BY FIELD CONDITIONS. FCDADSON SHALL BE CONSULTED ON ALL MODIFICATIONS.
- 12. ANY AND ALL INTERPRETATIONS PERTAINING TO THE DRAWINGS SHALL BE MADE BY FCDADSON AND DESIGNER.
- 13. FCDADSON SHALL BE CONSULTED DURING THE COURSE OF CONSTRUCTION REGARDING EXISTING FRAMING CONDITIONS ONCE THEY ARE EXPOSED. UPON HIS/HER INSPECTION, THE PROPOSED STRUCTURAL MEMBERS SHOWN ON THESE DRAWINGS MAY BE RECONSIDERED OR REVISED.
- 14. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL PERTINENT CODES REGULATIONS AND THE REQUIREMENTS OF GOVERNING JURISDICTION.

METALS

- 1. PROVIDE ALL MISCELLANEOUS METAL ITEMS NOT LIMITED TO THE FOLLOWING TO COMPLETE THE WORK:
 - 1. NAILS, SCREWS AND BOLTS.
- REINFORCING BARS.
 STEEL LINTELS.

4. WELDED WIRE MESH.

ROUGH CARPENTRY

- 1. ALL WOODS AND WOOD CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING STANDARDS EXCEPT AS MODIFIED BY THESE SPECIFICATIONS:
 - AMERICAN INSTITUTE OF TIMBER CONSTRUCTION: STANDARD MANUAL.
 - NATIONAL FOREST PRODUCTS ASSOCIATION
 SOUTHERN PINE INSPECTION BUREAU
 - TRUSS PLATE INSTITUTEAMERICAN PLYWOOD ASSOCIATIONAMERICAN WOOD PRESERVERS ASSOCIATION
- 2. ALL STRUCTURAL LUMBERS SHALL BE DOUGLAS FIR LARCH, CONSTRUCTION GRADE, S4S, AIR-DRIED, NUMBER 2, WITH FB = 875 PSI, UNLESS OTHERWISE CALLED FOR ON THE PLANS. REJECT ANY DELIVERED FRAMING LUMBER THAT IS NOT GRADE STAMPED AND CERTIFIED BY A BONA FIDE GRADING
- 3. DO NOT ACCEPT OR USE LUMBER THAT DEVIATES FROM GRADE STANDARDS OR HAS EXCESSIVE MOISTURE CONTENT OR OTHER DEFECTS. REMOVE UNSTAMPED OR DEFECTIVE LUMBER FROM THE JOB SITE.
- 4. STORE FRAMING LUMBER AND WOOD PANELS TO PREVENT DAMAGE AND MOISTURE ABSORPTION. STORE METAL CONNECTORS THAT ARE SUBJECT TO DAMAGE IN WEATHERTIGHT WRAPPING AND IN SAFE LOCATIONS AWAY FROM TRAFFIC OF OTHER SOURCES OF DAMAGE. STORE CHEMICALLY TREATED LUMBER AND WOOD PANELS OUT DOORS UNTIL INSTALLATION. KEEP CHEMICALLY TREATED LUMBER AND WOOD PANELS WELL VENTILATED IF MOVED INDOORS.
- 5. PROVIDE ALL BLOCKING AND PATCHING AND BUILDERS HARDWARE ITEMS INCLUDING, BUT NOT LIMITED TO, NAILS, SCREWS, BOLTS, HANGERS, ETC. AS REQUIRED TO PERFORM A COMPLETE JOB.
- 6. WOOD IN CONTACT WITH MASONRY SHALL BE PRESSURE TREATED.
- 7. REFER TO DRAWINGS FOR SIZES AND SPACING OF ALL NEW FRAMING MEMBERS: STUDS, FLOOR JOISTS, CEILING JOISTS, RAFTERS, RIDGES, VALLEY, ETC.
- 8. ALL BOLTS FOR SPECIFIED STRUCTURAL CONNECTIONS SHALL BE 5/8" DIAMETER WITH WASHERS AND NUTS, STAGGERED UP AND DOWN, SPACED 12" O.C.
- 9. CHECK AND VERIFY CORRECTIONS OF EACH STAGE OF FRAMING BEFORE INSTALLING SUBSEQUENT FRAMING: REMOVE ALL UNUSABLE WOOD SCRAPS FROM SITE WEEKLY AT MINIMUM AND BETWEEN EACH PHASE OF FRAMING. CALL FOR FCDADSON AND/OR BUILDING DEPARTMENT INSPECTION BEFORE CLOSING UP CONCEALED WORK.

BUILDING INSULATION

- 1. KEEP AREAS TO BE INSULATED CLEAN AND DRY. DO NOT INSTALL INSULATION WHERE IT MIGHT BE EXPOSED TO WATER.
- 2. UPON COMPLETION, CLEAN THE WORK AREA AND REMOVE ALL SCRAP AND EXCESS MATERIALS FROM THE SITE. ALLOW CONVENIENT ACCESS FOR INSPECTION OF WORK AND REPAIR OR REPAIR DEFECTIVE WORK AS DIRECTED BY FCDADSON.

DRYWALL

- 1. ALL INTERIOR WALLS AND CEILINGS SHALL BE FINISHED WITH 5/8" THICK GYPSUM BOARD DRYWALL: TYPE III, GRADER, CLASS I. TYPE X SHALL BE UTILIZED FOR ALL FIRE RATED WALLS.
- 2. ALL DRYWALL PRODUCTS SHALL BE PURCHASED FROM ONE MANUFACTURER SUCH AS USG OR AN APPROVED EQUAL. APPLY METAL CORNER BEADS TO ALL OUTWARD DRYWALL CORNERS. ALL JOINTS SHALL BE FINISHED WITH PERFORATED TAPE AND DRYWALL JOINT COMPOUND.
- 3. ALL WALLS AND CEILINGS SHALL BE TAPED, SPACKLED, SANDED AND READY FOR PAINT.
- 4. NOT USED
- 5. INSTALL BLOCKING AND BACKUPS TO SUPPORT ALL EDGES OF WALLBOARD.

OBSTRUCTIONS, OR PENETRATIONS OF OTHER WORK.

- 6. KEEP WALLBOARDS MATERIALS DRY AND PROTECTED FROM MOISTURE. STORE WALLBOARD MATERIALS SO THEY ARE PROTECTED FROM DAMAGE TO SURFACE AND EDGES. MAINTAIN INTERIOR WORK ENVIRONMENT CLOSED IN, NOT EXPOSED TO WEATHER CLEAN, DRY, WELL-VENTILATED, WELL-LIGHTED, AND COMFORTABLE IN TEMPERATURE.
- 7. KEEP WORK OF TRADES SUCH AS CONDUIT, PIPE, AND DUCTS CLEAR OF THE INSIDE FACE OF WALL PANELS.

/TC

- 1. COLORS, TEXTURES AND PATTERNS WILL BE AS SELECTED BY THE OWNER FROM MANUFACTURER'S SAMPLES. DELIVERED TILE SHALL MATCH SAMPLES APPROVED BY THE OWNER.
- 2. KEEP WORK SURFACES AND WORKING ENVIRONMENT CLEAN, DRY, WELL—LIT, WELL—VENTILATED, FREE OF AIRBORNE CONSTRUCTION DUST AND AT A COMFORTABLE WORKING TEMPERATURE, MINIMUM OF 60 DEG. F.

3. PREPARE FLOORS FOR TILING SO THE FINISH FLOOR, WILL BE EITHER PERFECTLY LEVEL OR SLOPE

PROPERLY TO DRAINS.

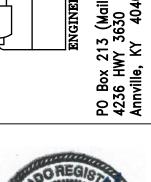
4. TILE MUST BE INSTALLED AS A COMPLETE, UNINTERRUPTED COVERING. EXTENDED TILE INTO RECESSES AND UNDER AND BEHIND FUTURE EQUIPMENT OR FIXTURES. TERMINATE TILE NEATLY AS EDGES,

EXISTING CONDITIONS AND DIMENSIONS
PRIOR TO BID AND REPORT ANY
DISCREPANCIES BACK TO OWNER.
G.C. SHALL COORDINATE ALL SUB
CONTRACTORS AND ENSURE A COMPLETE
FULLY CODE COMPLIANT AND
PROFESSIONALLY FINISHED TENANT SPACE.

CONTRACTOR SHALL FIELD VERIFY ALL

ISSUED / REVISIONS:

E – Mail: eric@emrengineers.cc





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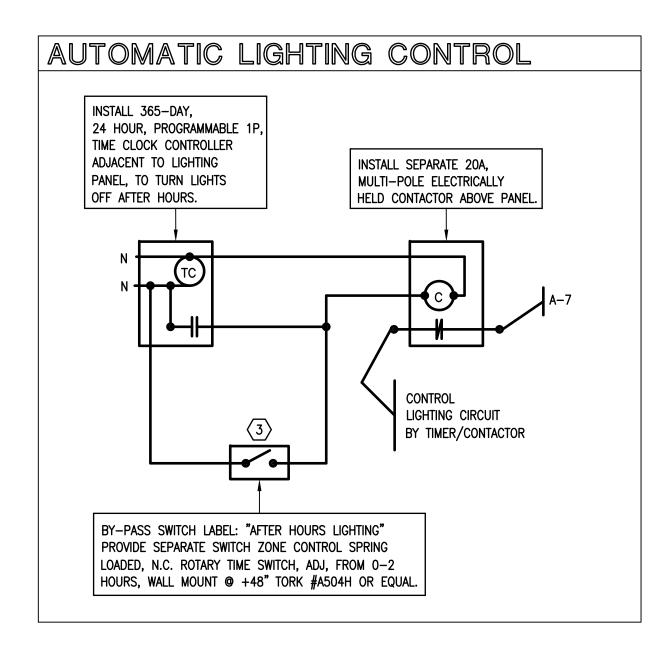
DATE: SEPTEMBER 12, 2023

SCALE: PER PLAN

PROJECT No.: PSS 2401

Ⅲ SHEET TITLE

ල් පු SPECIFICATIONS



SHEET NOTES

- E.C. COORDINATE ALL FINAL SIGNAGE LOCATIONS IN THE FIELD BASED ON PERMIT APPROVED SIGN DRAWING AND SHOP DRAWING SPEC AS APPROVED BY LANDLORD AND TENANT; DOCUMENTS TO BE PROVIDED BY EXTERIOR SIGNAGE CONTRACTOR. EXTERIOR SIGNAGE W/DISCONNECT ON BY PHOTOCELL AND OFF BY TIME CLOCK.
- LIGHTED MIRROR OUTLET TO BE LOCATED WITHIN A RECESSED POWER MANAGEMENT BOX THAT CAN ALSO HOUSE A 3" X 5" TRANSFORMER. RECESSED BOX AND POWER TO BE CONCEALED BEHIND THE MIRROR ONCE INSTALLED. LIGHTED MIRROR OUTLET TO BE CONNECTED TO THE RESTROOM SWITCH. MOUNT AT
- PROVIDE 2 HOUR OVERRIDE FOR AFTER HOURS LIGHTING. PROVIDED AND INSTALLED BY E.C.
- CEILING FLUSH MOUNTED SPEAKER (WHITE) FOR SONOS SYSTEM. TRIM FOR SPEAKER TO MATCH CEILING SURFACE. ROUTE SPEAKER WIRE FROM
- SPEAKERS BACK TO SONOS AND MAKE FINAL CONNECTIONS. OWNER WILL SUPPLY, E.C/G.C TO INSTALL. LOCATE SONOS ON SHELF HIGH ON PHONE BOARD. GC TO RUN SINGLE (2)WIRE 16 GAUGE SPEAKER WIRE FOR EACH SPEAKER. IF RUN IS OVER 80', GC TO RUN 14 GAUGE SPEAKER WIRE.

LIGHT	LIGHT FIXTURE LEGEND									
	TYPE	DESCRIPTION	MANUFACTURER	MODEL NO.	LAMPS					
^A O	A	6" RECESSED CAN	LITHONIA	LDN6 35/15 LO6WR LSS MVOLT EZ10 +11'-0" AFF IN GRID/GYP DAMP LOCATION FOR SHOWER ONLY	LED 13 WATTS DIMMABLE					
B⊕	В	4" RECESSED WALLWASH	HALO	H4571CTIE-ELG406-9-35-WH +11'-0" AFF	LED 13 WATTS DIMMABLE					
C.	С	24" DRUM LIGHT (13" HIGH)	VISUAL COMFORT AND COMPANY	65262-962-BN-FAUX SILK FABRIC SHADE 120-13H-24D +8'-11" AFF. INSTALL WITH (1) 12" MANUFACTURER SUPPLIED ROD.	LED 9.5 WATTS TYPE A19 97502S FROSTED 3000K DIMMABLE 4 X 9.5 = 38 WATTS					
(D _o)	D	14" DRUM LIGHT	VISUAL COMFORT AND COMPANY	77262-962 SHADE: FAUX SILK FINISH: BRUSHED NICKEL (962) +7'-3" AFF	LED 9.5 WATTS TYPE A19 97502S FROSTED 3000K DIMMABLE 2 X 9.5 = 19 WATTS					
<u>E</u>	E	WALL MIRROR (BACKLIT)	FCDADSON	CUSTOM +3'-2" AFF TO BOTTOM OF MIRROR	LED 20 WATTS					
⁶ O	G	4" RECESSED CAN	LITHONIA	LDN4 35/15 LO4 DOWNLIGHT WR LSS MVOLT EZ10 LED MOUNTED IN CEILING	LED 10 WATTS DIMMABLE					
H	Н	2'X4' LAYIN LED TROFFER	LITHONIA	2BLT4 2X4 BLT, 40L 4000, ADP EZ1, P835 82CRI 3500K (DIMMABLE)	34W LED					
RH CH	RH	EXTERIOR REMOTE EMERGENCY HEAD	BEST	RHLED1-WP	INTEGRAL					
WALL MOUNT ONLY EM	EM	EMERGENCY LIGHT WITH 90 MINUTE BATTERY BACKUP WALL MOUNTED 12" BELOW CEILING. MAX 108"AFF	BEST	LEDR1	INTEGRAL					
EX/EM WALL MOUNT ONLY	EM	COMBINATION EXIT / EMERGENCY LIGHT FIXTURE WITH 90 MINUTE BATTERY BACKUP	BEST	CXTEU2GWRC	INTEGRAL					
EX WALL MOUNT ONLY	EX	EXIT LIGHT FIXTURE WITH 90 MINUTE BATTERY BACKUP	BEST	EX T E U 2 G W - EM	INTEGRAL					

NOT ALL FIXTURES ARE NECESSARILY IN USE. LIGHT SWITCHES/CONTROLS TO BE MOUNTED AT 48" A.F.F. TO CENTER OF CONTROL.

GENERAL LIGHTING NOTES

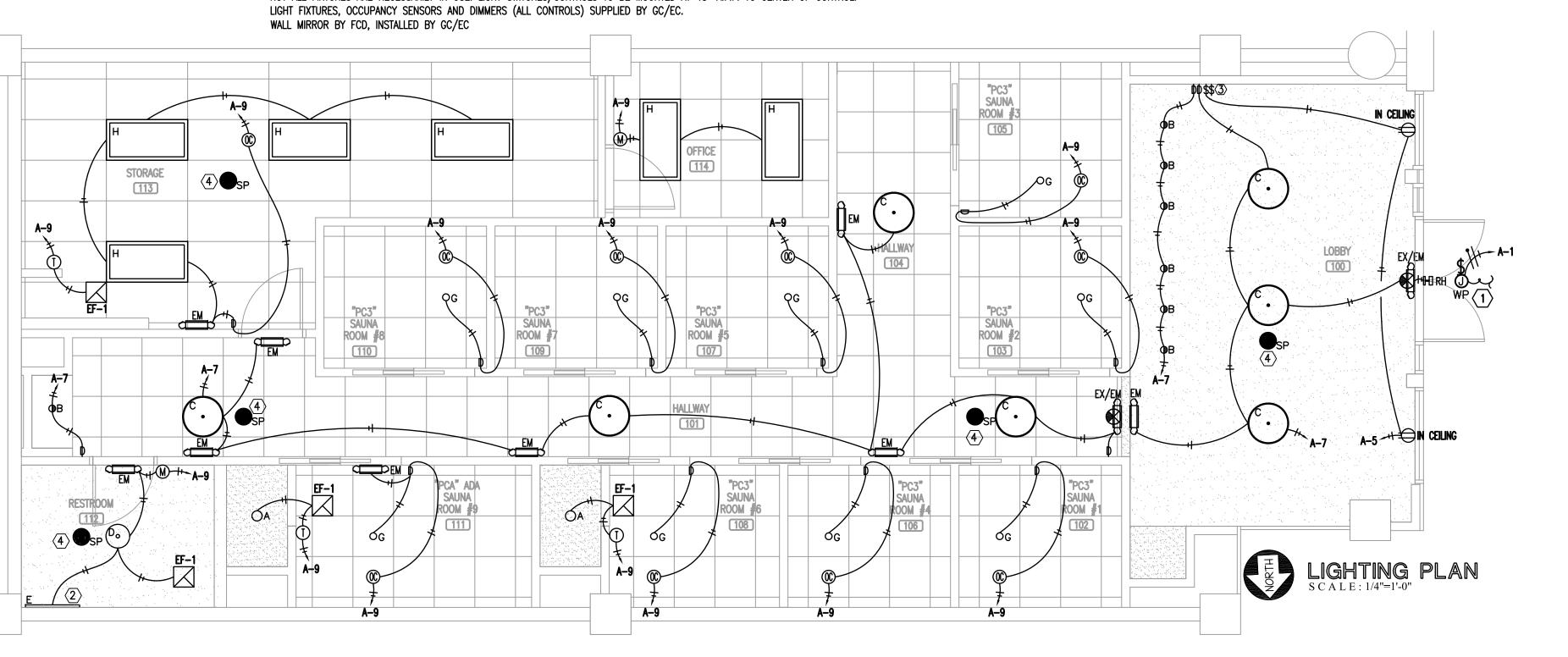
- ALL RECESSED LIGHTING FIXTURES SHALL BE RATED FOR CONTACT WITH INSULATION. LIGHT SWITCHES/CONTROLS TO BE MOUNTED AT 48" AFF TO CENTER OF CONTROL. LIGHTING SWITCHES INSTALLED IN TOILET ROOMS SHALL BE MOUNTED AT 40" AFF TO CENTER OF CONTROL . COORDINATE WITH ELEVATIONS. DO NOT INSTALL ACROSS
- DISSIMILAR FINISHES. ALL SWITCHES, RECEPTACLES AND FACE PLATES TO BE WHITE FINISH. PROVIDED AND INSTALLED BY E.C. ALL EMERGENCY AND EXIT BATTERY BACKUP LIGHTING, BATTERY TO BE INSTALLED AHEAD OF ALL CONTROL. INSTALL PER MANUFACTURER WIRING DIAGRAM. E.C TO CLEARLY (MECHANICALLY) LABEL ALL SWITCHES FOR
- DEVICE SERVED.

SWITCH DESIGNATIONS ALL CONTROLS RATED FOR 20 AMPS. ALL SWITCHED AND RECEPT TO BE WHITE

- \$ STANDARD LIGHT SWITCH LUTRON CLARO
- 3\$ 3 WAY LIGHT SWITCH LUTRON CLARO SLIDE DIMMER SWITCH LUTRON DIVA LED+ DIMMER SWITCH SWITCH FOR DIMMABLE LED SINGLE-POLE WHITE.
- M MUSIC VOLUME CONTROL TO MATCH LUTRON CLARO
- © CEILING MOUNTED OCCUPANCY SENSOR CONTROL WITH INTEGRAL ADJUSTABLE TIMER. SET TO MAX 30 MINUTES.
- M OCCUPANCY / MOTION SENSOR CONTROL WITH INTEGNAL ADJUSTABLE TIMER. SET TO MAX 30 MINUTES.
- (DL) CEILING MOUNTED DAY LIGHTING SENSOR CONTROL (T) ADJUSTABLE WALL TIMER, MAXIMUM 30 MINUTES

CONTROL WIRING

ELECTRICAL CONTRACTOR SHALL ENSURE RECEIPT OF CONTROL DEVICE WIRING SCHEMATICS FROM MANUFACTURER / SUPPLIER OF LIGHTING FIXTURES. E.C. SHALL BE RESPONSIBLE FOR ALL LOW VOLTAGE WIRING REQUIRED TO PROVIDE COMPLETE AND OPERABLE DIMMING / CONTROL SYSTEMS FOR ALL LIGHTING.



CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BID AND REPORT ANY DISCREPANCIES BACK TO OWNER. G.C. SHALL COORDINATE ALL SUB CONTRACTORS AND ENSURE A COMPLETE FULLY CODE COMPLIANT AND PROFESSIONALLY FINISHED TENANT SPACE. ISSUED / REVISIONS:



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SCALE: PER PLAN
PROJECT No.: PSS 2401 SEPTEMBER 12, 2023 PER PLAN SHEET TITLE

ELECTRICAL LIGHTING PLAN

RETURN AIR PLENUM

MATERIALS WITHIN PLENUMS. EXCEPT AS REQUIRED BY SECTIONS 602.2.1.1 THROUGH 602.2.1.6, MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 ORUL 723.

I. RIGID AND FLEXIBLE DUCTS AND CONNECTORS SHALL CONFORM TO SECTION 603.

DUCT COVERINGS, LININGS, TAPE AND CONNECTORS SHALL CONFORM TO SECTIONS 603 AND 604.

3. THIS SECTION SHALL NOT APPLY TO MATERIALS EXPOSED WITHIN PLENUMS IN ONE— AND TWO—FAMILY DWELLINGS. 4. THIS SECTION SHALL NOT APPLY TO SMOKE DETECTORS.

5. COMBUSTIBLE MATERIALS FULLY ENCLOSED WITHIN CONTINUOUS NONCOMBUSTIBLE RACEWAYS OR ENCLOSURES, APPROVED GYPSUM BOARD ASSEMBLIES OR WITHIN MATERIALS LISTED AND LABELED FOR SUCH APPLICATION.

602.2.1.1 WIRING. COMBUSTIBLE ELECTRICAL OR ELECTRONIC WIRING METHODS AND MATERIALS, OPTICAL FIBER CABLE, AND OPTICAL FIBER RACEWAY EXPOSED WITHIN APLENUM SHALL HAVE A PEAK OPTICAL DENSITY NOT GREATER THAN 0.50, AN AVERAGE OPTICAL DENSITY NOT GREATER THAN 0.15, AND A FLAME SPREAD NOT GREATER THAN 5 FEET (1524 MM) WHEN TESTED IN ACCORDANCE WITH NFPA 262. ONLY TYPE OFNP (PLENUM RATED NONCONDUCTIVE OPTICAL FIBER CABLE) SHALL BE INSTALLED IN PLENUM-RATED OPTICAL FIBER RACEWAYS. WIRING, CABLE, AND RACEWAYS ADDRESSED IN THIS SECTION SHALL BE LISTED AND LABELED AS PLENUM RATED AND SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70.

GC/EC/PC TO COORDINATE IN FIELD FOR INSTALLATION OF HEAT TAPE PROTECTION OF SANITARY SEWER AND DOMESTIC WATER PIPING BELOW TENANT FLOOR IN PARKING GARAGE. VERIFY IN FIELD. (1) 20 AMP CIRCUIT HAS BEEN PROVIDED IN ELECTRICAL LOAD AND PANEL SCHEDULES FINAL LOCATION TO BE COORDINATED IN FIELD.

SHEET NOTES

- RECEPTACLE ABOVE CEILING FOR WIRELESS HUB. G.C./E.C. TO PROVIDE AND INSTALL ADDITIONAL SHELF ABOVE CEILING FOR HUB.
- $\langle \overline{2} \rangle$ sauna receptacle and switch to mounted at 90"AFF TO CENTER OF RECEPTACLE. INSTALL POWERTEC 71008 110/220V SINGLE PHASE ON/OFF SWITCH OR EQUAL ADJACENT TO RECEPTACLE FOR CONTROL OF RECEPTACLE.
- $\langle 3 \rangle$ NOT USED.
- (4) SUPPLY AN EMPTY CONDUIT FROM THE PHONE BOARD TO UNDER THE POS COUNTER WITH PULL STRING AND BLANK FACE PLATE FOR FUTURE LOW VOLTAGE WORK, BY OTHERS.
- $\overline{(5)}$ all TV receptacles and data outlets to be RECESSED IN WALL. 2-GANG RECESSED TV MEDIA BOX
- (6) COORDINATE WITH MANUFACTURER INSTALL MANUAL FOR POWER TO WATER MACHINE. MOUNT REMOTE COOLER ABOVE CEILING.
- 7 NOT USED
- $\langle 8 \rangle$ GFCI RECEPTACLE AT 18" AFF BELOW SINK UNDER VANITY FOR FAUCET POWER.
- 9 60" WIDE X 44" TALL 3/4" PLYWOOD PHONE BOARD PAINTED TO MATCH ADJACENT FINISH. INSTALL TOP OF PHONE BOARD TIGHT TO CEILING ABOVE. INSTALL QUAD RECEPTACLES BELOW PHONE BOARD AT 88" TO THE TOP OF RECEPTACLE (TOP OF RECEPTACLES AT THE BOTTOM OF PHONE BOARD).
- (10) ALL POWER AND DATA SHOULD BE STACKED 2 HIGH AT THE POS LOCATION. FINAL LOCATION TO BE COORDINATED WITH MILLWORK SHOP DRAWINGS.

COMMUNICATION WIRING

ALL VOICE/DATA WIRING TO BE CAT 6 RATED. (MIN) 2 HOME RUN TO EACH, PHONE, DATA OR FAX. PATCH PANEL AND PHONE BLOCK BY VENDOR. INSTALLED BY EC. · ALL WIRING TO BE CLEARLY MARKED ON BOTH ENDS WITH MACHINE PRINTED WIRE NUMBERS · ALL VOICE / DATA JACKS TO BE CLEARLY LABELED WITH MACHINE PRINTED LABELS · LOW VOLTAGE WIRING SHALL BE COLOR CODED PER INDUSTRY STANDARD TELEPHONE SYSTEM MUST BE CAPABLE OF 4 VOICE LINES AND A DEDICATED HIGH SPEED INTERNET CONNECTION. · WIRING SHALL TERMINATE AT PHONE/ DATA BOARD • G.C. SHALL BE RESPONSIBLE TO COMPLETE INSTALLATION

GENERAL NOTES

OF COMMUNICATION SERVICES WITHIN SPACE.

- 1. BRANCH CIRCUIT WIRING SHALL BE AS FOLLOWS: A. LIGHTING AND POWER NETWORKS: (120/208V, 3ø, 4W) 1) 100 FEET OR LESS: PHASE – 3#12 AWG
 - NEUTRAL 1#12 AWG GROUND - 1#12 AWG
- 2) GREATER THAN 100 FEET: INCREASE ALL CONDUCTORS BY ONE WIRE GUAGE SIZE. 3) TWO NETWORKS MAXIMUM PER CONDUIT.
- 2. PROVIDE SINGLE GANG JUNCTION BOX FOR EACH TELEPHONE LOCATION WITH 3/4" CONDUIT STUBBED TO 6" ABOVE CEILING EXTEND TELEPHONE FROM OUTLET TO TELEPHONE BOARD LOCATION PER PLAN.
- 3. MINIMUM CONDUIT SIZE SHALL BE 3/4", UNLESS OTHERWISE NOTED OR INDICATED.

ELECTRICAL SYMBOLS

TV MOUNT

G.C. TO PROVIDE FIRE TREATED BLOCKING FOR TV MOUNTS ACROSS 3 STUD BAYS.

POWER PANELBOARD OR DISTRIBUTION PANEL 3/4" GIS FIRE TREATED PLYWOOD. PAINTED TO MATCH ADJACENT FINISH RECEPTACLES & OUTLETS (MOUNT CENTER OF BOX AT 18" AFF U.N.O.)(ALL DIM NOTED TO CENTER OF BOX) RECEPTACLE, 20A, 208V, SINGLE PHASE NEMA 6-20P WIRE GROUNDED TYPE (WHITE) FOR SAUNA VERIFY FINAL CONNECTION WITH MANUFACTURER INSTALLATION MANUAL. DUPLEX RECEPTACLE, 20A, 120V, 3 WIRE GROUNDED TYPE (WHITE) DOUBLE DUPLEX RECEPTACLE OUTLET, MTD., IN 2-GANG BOX W/SINGLE COVER PLATE (WHITE) ALL POWER IWTHIN 6'-0" OF WATER SOURCE TO BE GFCI RATED. GFCI DUPLEX RECEPTACLE, 20A, 120V, 3 WIRE GROUNDED TYPE (WHITE) COMMUNICATION - DUPLEX DATA (ETHERNET) JACK (2 RUNS) (RJ45) (CAT5E OR BETTER)

COMMUNICATION — DUPLEX PHONE JACK (RJ45) (CAT5E OR BETTER) COMMUNICATION - PHONE / DATA OUTLET (WHITE) (2 SEPERATE RUNS) (RJ45) (CAT5E OR BETTER)

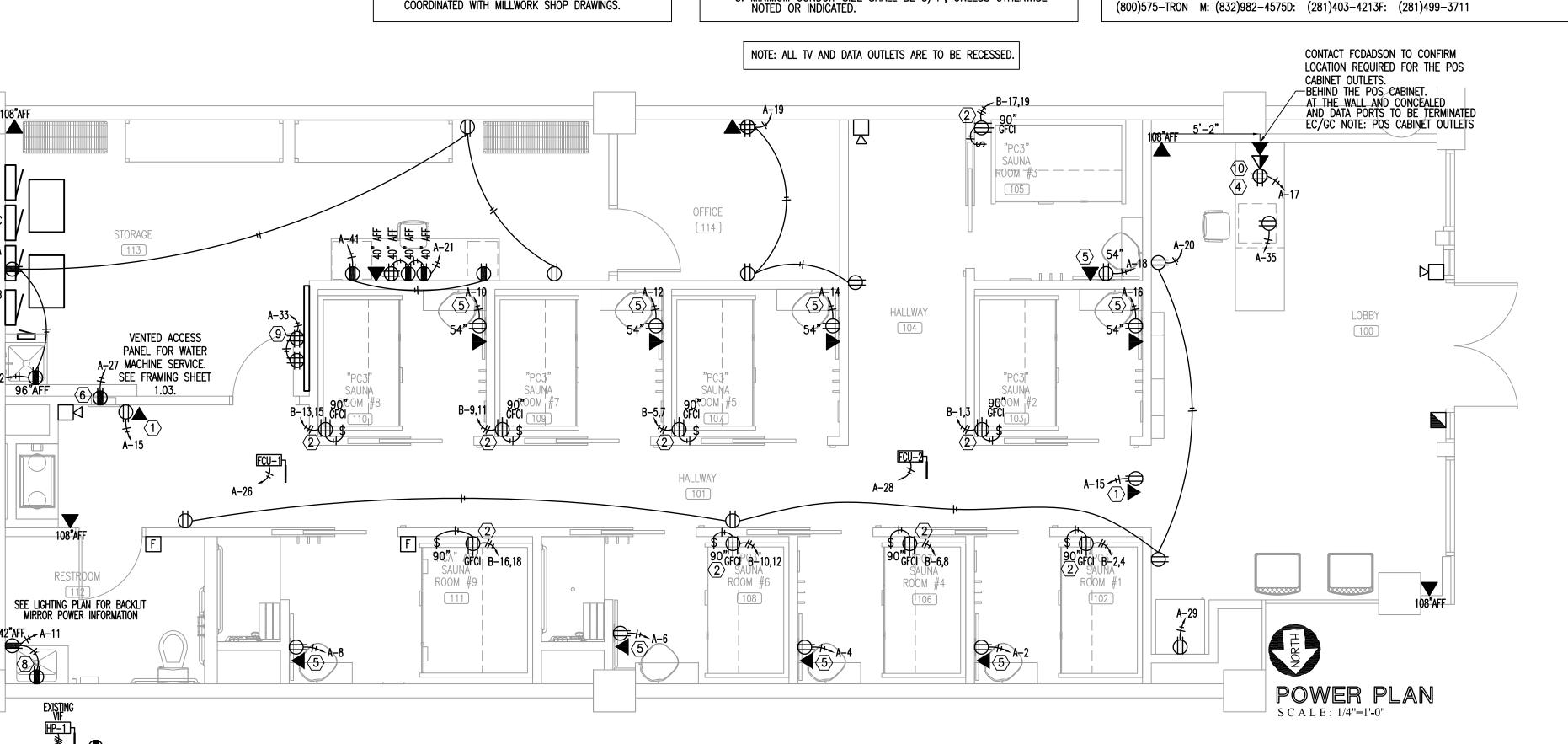
FIRE ALARM DEVICES FIRE ALARM DIFFERED PERMIT SUBMITTAL BY LOCAL LICENSED SUB CONTRACTOR SMOKE DETECTOR STROBE LIGHTS (12" BELOW CEILING) MANUAL PULL STATION (44" AFF) HORN / STROBE (12" BELOW CEILING)

FAA FIRE ALARM ANNUNCIATOR G.C. TO COORDINATE WITH LANDLORD APPROVED FIRE ALARM SUBCONTRACTOR FOR DIFFERED FIRE ALARM SUBMITTAL. FIRE TRON — KEVIN ALLYN

SUPERVISORY VALVE TAMPER SWITCH

SPRINKLER FLOW SWITCH

DUCT SMOKE DETECTOR



CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BID AND REPORT ANY DISCREPANCIES BACK TO OWNER. G.C. SHALL COORDINATE ALL SUB CONTRACTORS AND ENSURE A COMPLETE FULLY CODE COMPLIANT AND PROFESSIONALLY FINISHED TENANT SPACE.

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CHECKED BY: Staff DRAWN BY: Staff DATE:
SCALE: **SEPTEMBER 12, 2023** PER PLAN PROJECT No.: PSS 2401 **Ⅲ** SHEET TITLE

ELECTRICAL POWER PLAN

GENERAL NOTES

- 1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL AND STATE CODES.
- 2. ALL MATERIAL, EQUIPMENT AND APPLIANCES SHALL BE NEW AND SHALL CONFORM TO THE STANDARDS OF THE UNDERWRITER'S LABORATORIES, INC. AND THE NATIONAL MANUFACTURER'S ASSOCIATION.
- 3. ALL ELECTRICAL PERMITS AND INSPECTION FEES SHALL BE OBTAINED AND PAID FOR BY THE ELECTRICAL CONTRACTOR.
- 4. ELECTRICAL CONTRACT DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF ELECTRICAL EQUIPMENT. DO NOT SCALE ELECTRICAL PLANS. OBTAIN ALL DIMENSIONS FROM THE ARCHITECT'S DIMENSIONED DRAWINGS AND FIELD MEASUREMENTS. THE CONTRACTOR SHALL REVIEW ARCHITECTURAL PLANS FOR DOOR SWINGS AND BUILT—IN EQUIPMENT; CONDITIONS INDICATED ON THOSE PLANS SHALL GOVERN FOR THIS WORK.
- 5. VERIFY ALL REQUIREMENTS AND COORDINATE EXACT LOCATION OF ELECTRICAL SERVICE WITH LOCAL POWER COMPANY PRIOR TO PROJECT START. NOTIFY ENGINEER OF ANY
- 6. ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR EFFECTIVE FROM CERTIFICATE OF OCCUPANCY.
- 7. A COMPLETE GROUNDING SYSTEM SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH ARTICLE 250 OF THE NEC, AND AS SHOWN ON THE DRAWINGS.
- 8. ALL CUTTING PATCHING REQUIRED FOR INSTALLATION OF ELECTRICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. DO NOT CUT ANY MATERIAL THAT WILL WEAKEN THE STRUCTURE WITHOUT WRITTEN PERMISSION OF THE ARCHITECT. PATCHING SHALL BE ACCOMPLISHED TO MATCH ADJACENT SURFACES IN EVERY RESPECT. ENGAGE ORIGINAL INSTALLER FOR CUTTING/PATCHING OF ROOFS.
- 9. PROVIDE A TYPED DIRECTORY IN ALL PANELBOARDS CLEARLY DESCRIBING THE LOCATION AND TYPE OF LOAD SERVED FOR ALL CIRCUITS.
- 10. PROVIDE ENGRAVED PHENOLIC NAMEPLATES FOR ALL PANELBOARDS AND DISCONNECT SWITCHES, WHITE LETTERS ON BLACK BACKGROUND. NAMEPLATE SHALL CONTAIN EQUIPMENT DESIGNATION, VOLTAGE, FEEDER SOURCE & DATE.
- 11. PROVIDE "FLASH HAZARD" LABELS FOR ALL PANELBOARDS IN ACCORDANCE WITH NEC REQUIREMENTS.
- 12. ALL TERMINALS/LUGS SHALL BE 60 DEGREES/75 DEGREE RATED.
- 13. FUSES 0-600 AMPS SHALL BE UL CLASS "RK-5" LOW PEAK DUAL ELEMENTS TIME DELAY WITH 200,000 AMPERE INTERRUPTING RATING AS MANUFACTURED BY BUSSMAN UNLESS NOTED OTHERWISE.
- 14. ALL WATER HEATERS SHALL HAVE DISCONNECT SIZED PER 422.22(E)(3).
- 15. ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL ELECTRICAL CONNECTIONS TO EQUIPMENT REGARDLESS OF WHO SUPPLIES THE EQUIPMENT. THIS INCLUDES ALL HVAC, PLUMBING AND OWNER FURNISHED EQUIPMENT CONNECTIONS OF 120V OR HIGHER.
- 16. RACEWAYS SHALL BE INSTALLED CONCEALED IN NEW WALL CONSTRUCTION, ABOVE CEILINGS, BELOW FLOOR AND IN OTHER CAVITIES TO THE GREATEST EXTENT POSSIBLE. WHERE EXPOSED RACEWAYS MUST BE USED, LAYOUT RACEWAYS TO MINIMIZE THE NUMBER OF VERTICAL RUNS.
- 17. ALL EXPOSED RACEWAYS SHALL BE RUN PARALLEL TO THE BUILDING SURFACES AND SHALL BE PAINTED AS DIRECTED BY THE ARCHITECT. NO EXPOSED CONDUIT SHALL BE ALLOWED IN FINISHED SPACES EXCEPT AS PERMITTED BY THE OWNER OR ARCHITECT. EXPOSED RACEWAY IN FINISHED SPACES SHALL BE WIREMOLD TYPE.
- 18. BEFORE COMMENCING WITH ANY ROUGH—IN, COORDINATE THE EXACT LOCATION AND MOUNTING HEIGHT OF ALL WALL MOUNTED DEVICES WITH THE ARCHITECTURAL INTERIOR ELEVATIONS, CASEWORK, SHOP DRAWINGS, AND EXISTING CONDITIONS. IF ANY DISCREPANCIES ARE DISCOVERED, NOTIFY THE ARCHITECT FOR FURTHER DIRECTION. MINOR ADJUSTMENTS IN DEVICE LOCATION, 1. 5'—0" IN ANY DIRECTION SHALL BE DONE AT NO ADDITIONAL COST TO THE CONTRACT.
- 19. ALL WIRING SHALL BE INSTALLED IN IMC, RMC, EMT OR TYPE AC FLEXIBLE CABLE. RNC CONDUIT (PVC) SHALL ONLY BE USED UNDERGROUND AND OUTDOORS, WHERE NOT SUBJECT TO PHYSICAL DAMAGE. MINIMUM SIZE CONDUIT SHALL BE 3/4". AC FLEXIBLE CABLE SHALL BE USED ONLY IN AREAS PERMITTED BY CODE.
- 20. ALL FLEX SHALL BE LIQUID TIGHT FLEXIBLE METAL.
- 21. PROVIDE A PULL WIRE OR FISH TAPE IN ALL EMPTY CONDUITS. PROVIDE A BLANK COVER PLATE OVER ALL UNUSED BOXES INCLUDING DATA/COMM BOXES.
- 22. WHERE A SINGLE HOMERUN IS SHOWN THE CIRCUIT SHALL BE INSTALLED IN A DEDICATED CONDUIT, DO NOT COMBINE WITH OTHER CIRCUITS. WHERE A CIRCUIT HOMERUN IS NOT SHOWN THE CONTRACTOR SHALL COMBINE CIRCUITS, WHERE A CIRCUIT HOMERUN IS NOT SHOWN THE CONTRACTOR SHALL COMBINE CIRCUITS AS FOLLOWS AND IN ACCORDANCE WITH THE NEC:

 A MAXIMUM OF THREE 20A., 1POLE BRANCH CIRCUITS MAY BE COMBINED IN A COMMON HOMERUN SHARING A COMMON NEUTRAL OR WITH SEPARATE NEUTRALS, FOR A TOTAL OF SIX CURRENT CARRYING CONDUCTORS. ALL BRANCH CIRCUITS LARGER THAN 20A. SHALL BE SEPARATE HOMERUN TO PANEL.
- 23. CONDUCTORS SHALL BE COPPER, RATED AT NO LESS THE 600 VOLTS. MINIMUM SIZE SHALL BE NO. 12 AWG UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL WIRE #8 AWG AND LARGER SHALL BE STRANDED, #10 THRU #12 AWG CONDUCTORS SHALL BE SOLID. ALL INSULATION TYPES SHALL BE THWN OR THHN.
- 24. 20A/120V BRANCH CIRCUITS EXCEEDING 100' IN LENGTH FROM PANEL TO FARTHEST DEVICE SHALL USE NO. 10 CONDUCTORS AND 3/4"C.
- 25. FOR EVERY WORKING DEVICE MARK THE BRANCH CIRCUIT TO WHICH IT IS CONNECTED ON THE BACK OF EACH DEVICE PLATE, USING AN INDELIBLE MARKER PEN.
- 26. NOT USED.

FLOOR - CAJ1042

- 27. EXACT LOCATION OF ALL FLOOR—MOUNTED OUTLETS SHALL BE COORDINATED WITH THE ARCHITECT BEFORE ROUGH—IN.
- 28. TWO OR MORE ADJACENT POWER OR COMMUNICATION RECEPTACLES SHALL BE GANGED WITH A COMMON FACE PLATE IF THEY CAN NOT BE GANGED THEY SHALL BE INSTALLED WITH A MINIMUM DISTANCE BETWEEN UNITS.
- 29. WALL RECEPTACLES SHOWN BACK TO BACK MAY BE OFFSET BUT SHALL BE INSTALLED DIRECTLY ADJACENT TO ONE ANOTHER.

30. LIGHT SWITCHES SHALL BE NO MORE THAN 6" FROM EDGE OF DOOR FRAME.

- 31. WHERE PENETRATIONS ARE MADE THROUGH A REQUIRED FIRE—RESISTIVE WALL, OR PARTITION FOR THE PURPOSE OF RUNNING RACEWAY CARRYING ELECTRICAL, TELEPHONE, TELEVISION, OR LOCAL COMMUNICATION AND/OR SIGNALING CIRCUITS, THE OPENING AROUND THE RACEWAY SHALL BE FIRE STOPPED PER THE STATE BUILDING CODE. COORDINATION WITH THE GENERAL CONTRACTOR SHALL BE MAINTAINED TO INSURE THAT THIS FIRE STOPPING IS ACCOMPLISHED. USE APPROVED ASSEMBLIES SUCH AS THE
 - * CONDUIT PENETRATIONS OF 1,2,3, & 4 HOUR GYP BOARD WALLS U.L.#WL1001

 * CONDUIT PENETRATIONS OF 2,3, & 4 HOUR CONCRETE OR BLOCK WALLS U.L.#CAJ1001

 * CONDUIT PENETRATIONS OD 2,3,& 4 HOUR CONCRETE FLOORS U.L.#CAJ1001

 * CONDUIT PENETRATIONS OF 1 HOUR GYP BOARD CEILING ASSEMBLY L526

 * MULT. CONDUIT PENETRATIONS OF 2,3,& 4 HOUR CONCRETE OR BLOCK WALL OR
- 32. IN REQUIRED FIRE RATED WALLS AND PARTITIONS, OPENINGS FOR INSTALLATION OF OF BOXES THAT ARE GREATER THAN 16 SQUARE INCHES SHALL BE PROTECTED AS REQUIRED BY U.L. COORDINATE CLOSELY WITH THE GENERAL CONTRACTOR TO INSURE THAT THE INTEGRITY OF THE U.L. RATING IS MAINTAINED.
- 33. OUTLET BOXES FOR DEVICES MOUNTED ON OPPOSITE SIDES OF FIRE RATED PARTITIONS SHALL NOT BE MOUNTED IN THE SAME WALL CAVITY. SEPARATED WALL PENETRATIONS BY MOUNTING ON OPPOSITE SIDES OF WALL STUDS OR OTHER VERTICAL STRUCTURAL MEMBERS IN THE WALL.
- 34. (SEISMIC REQUIREMENTS) ELECTRICAL EQUIPMENT SHALL MEET THE REQUIREMENTS OF SECTION 1621 OF THE 2002 IBC.
- 35. ELECTRICAL CONTRACTOR SHALL VERIFY THAT ALL AREAS IN WHICH FOOD IS PREPARED, OR IN WHICH UTENSILS ARE WASHED, SHALL BE PROVIDED WITH AT LEAST 50FC OF LIGHT ON FOOD PREPARATION WORK LEVELS AND AT UTENSILS WASHING WORK LEVELS. AT LEAST 10FC OF LIGHT AT 30 INCHES ABOVE THE FLOOR SHALL BE PROVIDED IN ALL OTHER WORK AREAS, INCLUDING STORAGE ROOMS AND WALK—IN UNITS. LIGHT BULBS IN FOOD PREPARATION, STORAGE, AND DISPLAY AREAS SHALL BE SHATTERPROOF OR SHIELDED SO AS TO PROTECT AGAINST BREAKAGE BY A SHIELD SURROUNDING AND

EXTENDING BEYOND THE BUILD, LEAVING ONLY THE FACE OF THE BULB EXPOSED.

ODE	LOAD	ANALYS	IS PER	N.E.C.	

	CODE LOAD ANALY	SIS PANEL A1	
LOAD DESCRIPTION	CONNECTED KVA	DEMAND FACTOR	KVA DEMAND
LIGHTING - EXTERIOR	0	125%	
LIGHTING - INTERIOR	1434	125%	179
SIGNAGE	1200	125%	150
RECEPTACLES	10000	FIRST 10 KW 100%	1000
	5960	REMAINDER @ 50%	298
KITCHEN EQUIPMENT	0	65%	
WATER HEATING	0	125%	
HVAC EQUIPMENT	14754	100%	1475
		LGT MOTOR @25%	(
SAUNAS	33250	100%	3325
MISC.	0	100%	
TOTALS	66598		6427
 CALCULATED SERVI	CE DEMAND AMPERES	7	77 amps

CODE LOAD ANALYSIS PER N.E.C.

	CODE LOAD ANALY	SIS PANEL A	
LOAD DESCRIPTION	CONNECTED KVA	DEMAND FACTOR	KVA DEMAND
LIGHTING - EXTERIOR	0	125%	
LIGHTING - INTERIOR	1434	125%	179
SIGNAGE	1200	125%	150
RECEPTACLES	10000	FIRST 10 KW 100%	1000
	5960	REMAINDER @ 50%	298
KITCHEN EQUIPMENT	0	65%	
WATER HEATING	0	125%	
HVAC EQUIPMENT	2784	100%	278
		LGT MOTOR @25%	75
SAUNAS	0	100%	
MISC.	0	100%	
TOTALS	21378		1794
CALCULATED SERVI	CE DEMAND AMPERES	_	i0 amps

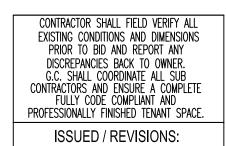
CODE	LOAD	ANALYSIS	PER N.E.C

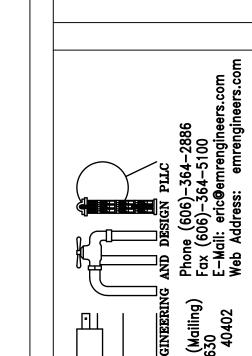
	CODE LOAD ANALY	'SIS PANEL B	
LOAD DESCRIPTION	CONNECTED KVA	DEMAND FACTOR	KVA DEMAND
LIGHTING - EXTERIOR	0	125%	
LIGHTING - INTERIOR	0	125%	
SIGNAGE	0	125%	
RECEPTACLES	0	FIRST 10 KW 100%	
	0	REMAINDER @ 50%	
KITCHEN EQUIPMENT	0	65%	
WATER HEATING	0	125%	
HVAC EQUIPMENT	0	100%	
		LGT MOTOR @25%	
SAUNAS	33250	100%	332
MISC.	0	100%	
TOTALS	33250		332
CALCULATED SERVIC	CE DEMAND AMPERES	9	2 amps

		EXISITING SURFACE M	OUNTED NEMA 1		1	100 AMP MAIN I	BREAKER		277 / 480 / 3Ø / 4WIRE	42,000 AIC (VIF)		
CIRCUIT	TYPE	WIRE AND	LOAD	CIRCUIT		LOAD WATTS		CIRCUIT	LOAD	WIRE AND	TYPE	CIRCUIT
BREAKER		CONDUIT	SERVED	NUMBER	ØA	ØB	ØC	NUMBER	SERVED	CONDUIT		BREAKER
20A				1	3990							
	HACR	4-#12 THHN & 1# 12 G, 3/4" C.	HP-1	3	7405	3990		2				50A
3P				5		6953	3990	4	EXISTING 30 KVA TRNAFORMER	4 #8 THHN & 1 #8 G., 3/4"C.		
			SPACE	7	0		7020	6				3F
			SPACE	9	10980	0		8				70A
			SPACE	11		11135	0	10	NEW 45 KVA TRNAFORMER	4 #4 THHN & 1 #8 G., 1"C.		
							11135	12				3F
·					22375	22078	22145	TOTAL (CONNECTED LOAD WATTS	66598		
		PROVIDE WITH GROUNDE	ED BUS						TOTAL LOAD KVA / AMPS	66.6	80.1	

		EXISITING SU	JRFACE MOUNTED NEMA 1		100 /	AMP MAIN CIRCU	UIT BREAK	ER	120 / 208 / 3Ø / 4WIRE 22,00	0 AIC (VIF)		
CIRCUIT	TYPE	WIRE AND	LOAD	CIRCUIT		LOAD WATTS		CIRCUIT	LOAD	WIRE AND	TYPE	CIRCUIT
REAKER		CONDUIT	SERVED	NUMBER	ØA	ØB	ØC	NUMBER	SERVED	CONDUIT		BREAKER
A / 1P	TC	2-#12 THHN & 1# 12 G, 3/4" C.	EXTERIOR SIGNAGE	1	1200							
A / 1P		2-#12 THHN & 1# 12 G, 3/4" C.	TIME CLOCK CONTROLLER	3	720	180		2	SAUNA ROOM 102 CONVENIENCE RECEPTACLES	2-#12 THHN & 1# 12 G, 3/4" C.		20A / 1P
A / 1P		2-#12 THHN & 1# 12 G, 3/4" C.	STOREFRONT RECEPTACLES	5		720	1800	4	SAUNA ROOM 106 CONVENIENCE RECEPTACLES	2-#12 THHN & 1# 12 G, 3/4" C.		20A / 1P
A / 1P		2-#12 THHN & 1# 12 G, 3/4" C.	LIGHTING	7	397		720	6	SAUNA ROOM 108 CONVENIENCE RECEPTACLES	2-#12 THHN & 1# 12 G, 3/4" C.		20A / 1P
A / 1P		2-#12 THHN & 1# 12 G, 3/4" C.	LIGHTING	9	720	1037		8	SAUNA ROOM 111 CONVENIENCE RECEPTACLES	2-#12 THHN & 1# 12 G, 3/4" C.		20A / 1P
A / 1P		2-#12 THHN & 1# 12 G, 3/4" C.	RESTROOM 112 RECEPTACLES	11		720	360	10	SAUNA ROOM 110 CONVENIENCE RECEPTACLES	2-#12 THHN & 1# 12 G, 3/4" C.		20A / 1P
			SPACE	13	0		720	12	SAUNA ROOM 109 CONVENIENCE RECEPTACLES	2-#12 THHN & 1# 12 G, 3/4" C.		20A / 1P
A / 1P	IG	2-#12 THHN & 1# 12 G, 3/4" C.	WIFI ROUTER	15	720	360		14	SAUNA ROOM 107 CONVENIENCE RECEPTACLES	2-#12 THHN & 1# 12 G, 3/4" C.		20A / 1P
A / 1P	IG	2-#12 THHN & 1# 12 G, 3/4" C.	POS RECEPTACLES	17		720	540	16	SAUNA ROOM 103 CONVENIENCE RECEPTACLES	2-#12 THHN & 1# 12 G, 3/4" C.		20A / 1P
A / 1P		2-#12 THHN & 1# 12 G, 3/4" C.	CONVENIENCE RECEPTALES	19	720		720	18	SAUNA ROOM 105 CONVENIENCE RECEPTACLES	2-#12 THHN & 1# 12 G, 3/4" C.		20A / 1P
A / 1P	IG	2-#12 THHN & 1# 12 G, 3/4" C.	STORAGE 113 DESK RECEPTACLES	21	720	720		20	CONVENIENCE RECEPTACLES	2-#12 THHN & 1# 12 G, 3/4" C.		20A / 1P
A / 1P		2-#12 THWN & 1# 12 G, 3/4" C.	HVAC SERVICE RECEPTACLES	23		720	360	22	CONVENIENCE RECEPTACLES	2-#12 THHN & 1# 12 G, 3/4" C.		20A / 1P
			SPACE	25	0		0	24	SPACE			
A / 1P	GFCI	2-#12 THHN & 1# 12 G, 3/4" C.	WATER MACHINE	27	408	480		26	FCU-1 4 TON	2-#12 THHN & 1# 12 G, 3/4" C.	HACR	20A / 1P
A / 1P		2-#12 THHN & 1# 12 G, 3/4" C.	LOBBY FRIDGE	29		576	720	28	FCU-2 6 TON	2-#12 THHN & 1# 12 G, 3/4" C.	HACR	20A / 1P
			SPACE	31	0		0	30	SPACE			
A / 1P	IG LOD	2-#12 THHN & 1# 12 G, 3/4" C.	PHONE EQUIPMENT	33	0	720		32	SPACE			
A / 1P		2-#12 THHN & 1# 12 G, 3/4" C.	LOBBY FRIDGE	35		0	360	34	SPACE			
A / 1P	HACR	2-#12 THHN & 1# 12 G, 3/4" C.	HEAT TAPE	37	1800		0	36	SPACE			
			SPACE	39	0	0		38	SPACE			
A / 1P		2-#12 THHN & 1# 12 G, 3/4" C.	STORAGE ROOM 113 FRIDGE	41		0	720	40	SPACE			
							0	42	SPACE			
					7405	6953	7020		TOTAL CONNECTED LOAD WATTS	21378		
	1	PROVIDE WITH GROUNDED BU	IS						TOTAL LOAD KVA / AMPS	21.4	59.4	1

		NEW SURFACE MO	UNTED NEMA 1		125	S AMP MAIN BRE	AKER	120) / 208 / 3Ø / 4WIRE	22,000 AIC (VIF)		
CIRCUIT	TYPE	WIRE AND	LOAD	CIRCUIT		LOAD WATTS		CIRCUIT	LOAD	WIRE AND	TYPE	CIRCUIT
BREAKER		CONDUIT	SERVED	NUMBER	ØA	ØB	ØC	NUMBER	SERVED	CONDUIT		BREAKER
0A	HACR	3-#12 THHN & 1# 12 G, 3/4" C.	SAUNA RM 103	1	1830							
2P				3	1830	1830		2	SAUNA RM 102	3-#12 THHN & 1# 12 G, 3/4" C.	HACR	20A
0A	HACR	3-#12 THHN & 1# 12 G, 3/4" C.	SAUNA RM 107	5		1830	1830	4				2P
2P				7	1830		1830	6	SAUNA RM 106	3-#12 THHN & 1# 12 G, 3/4" C.	HACR	20A
0A	HACR	3-#12 THHN & 1# 12 G, 3/4" C.	SAUNA RM 109	9	1830	1830		8				2P
2P				11		1830	1830	10	SAUNA RM 108	3-#12 THHN & 1# 12 G, 3/4" C.	HACR	20A
0A	HACR	3-#12 THHN & 1# 12 G, 3/4" C.	SAUNA RM 110	13	1830		1830	12				2P
2P				15	0	1830		14	SPACE			
0A	HACR	3-#12 THHN & 1# 12 G, 3/4" C.	SAUNA RM 105	17		1985	1830	16	SAUNA RM 111	3-#8 THHN & 1# 8 G, 3/4" C.	HACR	
2P				19	1830		1985	18				2P
			SPACE	21	0	0		20	SPACE			
			SPACE	23		0	0	22	SPACE			
			SPACE	25	0		0	24	SPACE			
			SPACE	27	0	0		26	SPACE			
			SPACE	29		0	0	28	SPACE			
			SPACE	31	0		0	30	SPACE			
			SPACE	33	0	0		32	SPACE			
			SPACE	35		0	0	34	SPACE			
			SPACE	37	0		0	36	SPACE			
			SPACE	39	0	0	•	38	SPACE			
			SPACE	41		0	0	40	SPACE SPACE			
					40000	4440	0	42	· · · · · · · · · · · · · · · · · · ·	20050		
				L	10980	11135	11135	IOTAL	CONNECTED LOAD WATTS	33250		1
		PROVIDE WITH GROUNDED E	BUS						TOTAL LOAD KVA / AMPS	33.3	92.4	











CHECKED BY: Staff

DRAWN BY: Staff

DATE: SEPTEMBER 12, 2023

SCALE: PER PLAN

PROJECT No.: PSS 2401

SHEET TITLE

ELECTRICAL PANELS

No.

GENERAL NOTES

- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION
 OF THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL AND STATE CODES.
- 2. ALL MATERIAL, EQUIPMENT AND APPLIANCES SHALL BE NEW AND SHALL CONFORM TO THE STANDARDS OF THE UNDERWRITER'S LABORATORIES, INC. AND THE NATIONAL MANUFACTURER'S ASSOCIATION.
- 3. ALL ELECTRICAL PERMITS AND INSPECTION FEES SHALL BE OBTAINED AND PAID FOR BY THE ELECTRICAL CONTRACTOR.
- 4. ELECTRICAL CONTRACT DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF ELECTRICAL EQUIPMENT. DO NOT SCALE ELECTRICAL PLANS. OBTAIN ALL DIMENSIONS FROM THE ARCHITECT'S DIMENSIONED DRAWINGS AND FIELD MEASUREMENTS. THE CONTRACTOR SHALL REVIEW ARCHITECTURAL PLANS FOR DOOR SWINGS AND BUILT—IN EQUIPMENT; CONDITIONS INDICATED ON THOSE PLANS SHALL GOVERN FOR THIS WORK.
- 5. VERIFY ALL REQUIREMENTS AND COORDINATE EXACT LOCATION OF ELECTRICAL SERVICE WITH LOCAL POWER COMPANY PRIOR TO PROJECT START. NOTIFY ENGINEER OF ANY
- 6. ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR EFFECTIVE FROM CERTIFICATE OF OCCUPANCY.
- 7. A COMPLETE GROUNDING SYSTEM SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH ARTICLE 250 OF THE NEC, AND AS SHOWN ON THE DRAWINGS.
- 8. ALL CUTTING PATCHING REQUIRED FOR INSTALLATION OF ELECTRICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. DO NOT CUT ANY MATERIAL THAT WILL WEAKEN THE STRUCTURE WITHOUT WRITTEN PERMISSION OF THE ARCHITECT. PATCHING SHALL BE ACCOMPLISHED TO MATCH ADJACENT SURFACES IN EVERY RESPECT. ENGAGE ORIGINAL INSTALLER FOR CUTTING/PATCHING OF ROOFS.
- 9. PROVIDE A TYPED DIRECTORY IN ALL PANELBOARDS CLEARLY DESCRIBING THE LOCATION AND TYPE OF LOAD SERVED FOR ALL CIRCUITS.
- 10. PROVIDE ENGRAVED PHENOLIC NAMEPLATES FOR ALL PANELBOARDS AND DISCONNECT SWITCHES, WHITE LETTERS ON BLACK BACKGROUND. NAMEPLATE SHALL CONTAIN EQUIPMENT DESIGNATION, VOLTAGE, FEEDER SOURCE & DATE.
- 11. PROVIDE "FLASH HAZARD" LABELS FOR ALL PANELBOARDS IN ACCORDANCE WITH NEC REQUIREMENTS.
- 12. ALL TERMINALS/LUGS SHALL BE 60 DEGREES/75 DEGREE RATED.
- 13. FUSES 0-600 AMPS SHALL BE UL CLASS "RK-5" LOW PEAK DUAL ELEMENTS TIME DELAY WITH 200,000 AMPERE INTERRUPTING RATING AS MANUFACTURED BY BUSSMAN UNLESS NOTED OTHERWISE.
- 14. ALL WATER HEATERS SHALL HAVE DISCONNECT SIZED PER 422.22(E)(3)
- 15. ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL ELECTRICAL CONNECTIONS TO EQUIPMENT REGARDLESS OF WHO SUPPLIES THE EQUIPMENT. THIS INCLUDES ALL HVAC, PLUMBING AND OWNER FURNISHED EQUIPMENT CONNECTIONS OF 120V OR HIGHER.
- 16. RACEWAYS SHALL BE INSTALLED CONCEALED IN NEW WALL CONSTRUCTION, ABOVE CEILINGS, BELOW FLOOR AND IN OTHER CAVITIES TO THE GREATEST EXTENT POSSIBLE. WHERE EXPOSED RACEWAYS MUST BE USED, LAYOUT RACEWAYS TO MINIMIZE THE NUMBER OF VERTICAL RUNS.
- 17. ALL EXPOSED RACEWAYS SHALL BE RUN PARALLEL TO THE BUILDING SURFACES AND SHALL BE PAINTED AS DIRECTED BY THE ARCHITECT. NO EXPOSED CONDUIT SHALL BE ALLOWED IN FINISHED SPACES EXCEPT AS PERMITTED BY THE OWNER OR ARCHITECT. EXPOSED RACEWAY IN FINISHED SPACES SHALL BE WIREMOLD TYPE.
- 18. BEFORE COMMENCING WITH ANY ROUGH—IN, COORDINATE THE EXACT LOCATION AND MOUNTING HEIGHT OF ALL WALL MOUNTED DEVICES WITH THE ARCHITECTURAL INTERIOR ELEVATIONS, CASEWORK, SHOP DRAWINGS, AND EXISTING CONDITIONS. IF ANY DISCREPANCIES ARE DISCOVERED, NOTIFY THE ARCHITECT FOR FURTHER DIRECTION. MINOR ADJUSTMENTS IN DEVICE LOCATION, 1. 5'—0" IN ANY DIRECTION SHALL BE DONE AT NO ADDITIONAL COST TO THE CONTRACT.
- 19. ALL WIRING SHALL BE INSTALLED IN IMC, RMC, EMT OR TYPE AC FLEXIBLE CABLE. RNC CONDUIT (PVC) SHALL ONLY BE USED UNDERGROUND AND OUTDOORS, WHERE NOT SUBJECT TO PHYSICAL DAMAGE. MINIMUM SIZE CONDUIT SHALL BE 3/4". AC FLEXIBLE CABLE SHALL BE USED ONLY IN AREAS PERMITTED BY CODE.
- 20. ALL FLEX SHALL BE LIQUID TIGHT FLEXIBLE METAL.
- 21. PROVIDE A PULL WIRE OR FISH TAPE IN ALL EMPTY CONDUITS. PROVIDE A BLANK COVER PLATE OVER ALL UNUSED BOXES INCLUDING DATA/COMM BOXES.
- 22. WHERE A SINGLE HOMERUN IS SHOWN THE CIRCUIT SHALL BE INSTALLED IN A DEDICATED CONDUIT, DO NOT COMBINE WITH OTHER CIRCUITS. WHERE A CIRCUIT HOMERUN IS NOT SHOWN THE CONTRACTOR SHALL COMBINE CIRCUITS, WHERE A CIRCUIT HOMERUN IS NOT SHOWN THE CONTRACTOR SHALL COMBINE CIRCUITS AS FOLLOWS AND IN ACCORDANCE WITH THE NEC:

 A MAXIMUM OF THREE 20A., 1POLE BRANCH CIRCUITS MAY BE COMBINED IN A COMMON HOMERUN SHARING A COMMON NEUTRAL OR WITH SEPARATE NEUTRALS, FOR A TOTAL OF SIX CURRENT CARRYING CONDUCTORS. ALL BRANCH CIRCUITS LARGER THAN 20A. SHALL BE SEPARATE HOMERUN TO PANEL.
- 23. CONDUCTORS SHALL BE COPPER, RATED AT NO LESS THE 600 VOLTS. MINIMUM SIZE SHALL BE NO. 12 AWG UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL WIRE #8 AWG AND LARGER SHALL BE STRANDED, #10 THRU #12 AWG CONDUCTORS SHALL BE SOLID. ALL INSULATION TYPES SHALL BE THWN OR THHN.
- 24. 20A/120V BRANCH CIRCUITS EXCEEDING 100' IN LENGTH FROM PANEL TO FARTHEST DEVICE SHALL USE NO. 10 CONDUCTORS AND 3/4"C.
- 25. FOR EVERY WORKING DEVICE MARK THE BRANCH CIRCUIT TO WHICH IT IS CONNECTED ON THE BACK OF EACH DEVICE PLATE, USING AN INDELIBLE MARKER PEN.
- 26. NOT USED
- 27. EXACT LOCATION OF ALL FLOOR-MOUNTED OUTLETS SHALL BE COORDINATED WITH THE ARCHITECT BEFORE ROUGH-IN.
- 28. TWO OR MORE ADJACENT POWER OR COMMUNICATION RECEPTACLES SHALL BE GANGED WITH A COMMON FACE PLATE IF THEY CAN NOT BE GANGED THEY SHALL BE INSTALLED WITH A MINIMUM DISTANCE BETWEEN UNITS.
- 29. WALL RECEPTACLES SHOWN BACK TO BACK MAY BE OFFSET BUT SHALL BE INSTALLED DIRECTLY ADJACENT TO ONE ANOTHER.
- 30. LIGHT SWITCHES SHALL BE NO MORE THAN 6" FROM EDGE OF DOOR FRAME.
- 31. WHERE PENETRATIONS ARE MADE THROUGH A REQUIRED FIRE—RESISTIVE WALL, OR PARTITION FOR THE PURPOSE OF RUNNING RACEWAY CARRYING ELECTRICAL, TELEPHONE, TELEVISION, OR LOCAL COMMUNICATION AND/OR SIGNALING CIRCUITS, THE OPENING AROUND THE RACEWAY SHALL BE FIRE STOPPED PER THE STATE BUILDING CODE. COORDINATION WITH THE GENERAL CONTRACTOR SHALL BE MAINTAINED TO INSURE THAT THIS FIRE STOPPING IS ACCOMPLISHED. USE APPROVED ASSEMBLIES SUCH AS THE
 - * CONDUIT PENETRATIONS OF 1,2,3, & 4 HOUR GYP BOARD WALLS U.L.#WL1001

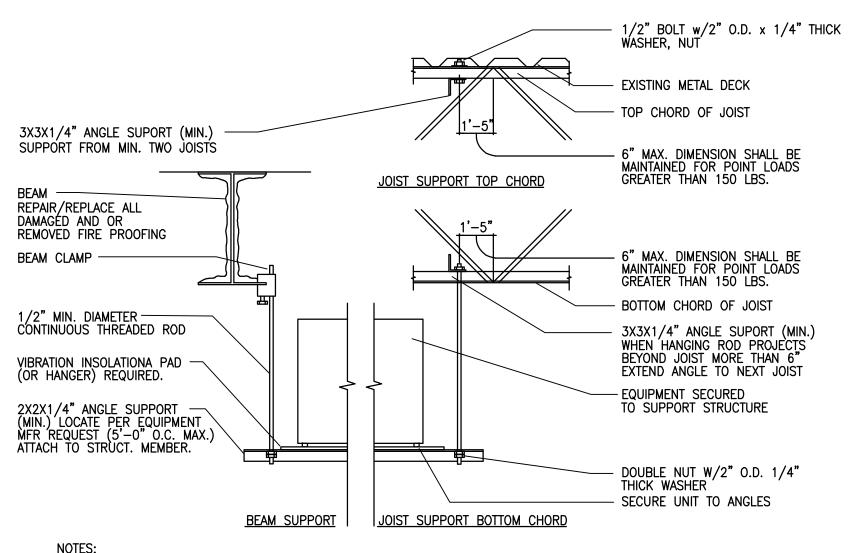
 * CONDUIT PENETRATIONS OF 2,3, & 4 HOUR CONCRETE OR BLOCK WALLS U.L.#CAJ1001

 * CONDUIT PENETRATIONS OD 2,3,& 4 HOUR CONCRETE FLOORS U.L.#CAJ1001

 * CONDUIT PENETRATIONS OF 1 HOUR GYP BOARD CEILING ASSEMBLY L526

 * MULT. CONDUIT PENETRATIONS OF 2,3,& 4 HOUR CONCRETE OR BLOCK WALL OR
 FLOOR CAJ1042
- 32. IN REQUIRED FIRE RATED WALLS AND PARTITIONS, OPENINGS FOR INSTALLATION OF OF BOXES THAT ARE GREATER THAN 16 SQUARE INCHES SHALL BE PROTECTED AS REQUIRED BY U.L. COORDINATE CLOSELY WITH THE GENERAL CONTRACTOR TO INSURE THAT THE INTEGRITY OF THE U.L. RATING IS MAINTAINED.
- 33. OUTLET BOXES FOR DEVICES MOUNTED ON OPPOSITE SIDES OF FIRE RATED PARTITIONS SHALL NOT BE MOUNTED IN THE SAME WALL CAVITY. SEPARATED WALL PENETRATIONS BY MOUNTING ON OPPOSITE SIDES OF WALL STUDS OR OTHER VERTICAL STRUCTURAL MEMBERS IN THE WALL.
- 34. (SEISMIC REQUIREMENTS) ELECTRICAL EQUIPMENT SHALL MEET THE REQUIREMENTS OF SECTION 1621 OF THE 2002 IBC.
- 35. ELECTRICAL CONTRACTOR SHALL VERIFY THAT ALL AREAS IN WHICH FOOD IS PREPARED, OR IN WHICH UTENSILS ARE WASHED, SHALL BE PROVIDED WITH AT LEAST 50FC OF LIGHT ON FOOD PREPARATION WORK LEVELS AND AT UTENSILS WASHING WORK LEVELS. AT LEAST 10FC OF LIGHT AT 30 INCHES ABOVE THE FLOOR SHALL BE PROVIDED IN ALL OTHER WORK AREAS, INCLUDING STORAGE ROOMS AND WALK—IN UNITS. LIGHT BULBS IN FOOD PREPARATION, STORAGE, AND DISPLAY AREAS SHALL BE SHATTERPROOF OR SHIELDED SO AS TO PROTECT AGAINST BREAKAGE BY A SHIELD SURROUNDING AND

EXTENDING BEYOND THE BUILD, LEAVING ONLY THE FACE OF THE BULB EXPOSED.



1) CONSULT WITH LANDLORD'S STRUCTURAL ENGINEER FOR LOCATION AND HANGING REQUIREMENTS FOR EQUIPMENT.

- 2) SIZE OF STRUCTURAL SUPPORTS (ROD ANGLES, ETC.) ARE MINIMUM AND SHALL BE SIZED BY TENANT OR TENANT CONTRACTOR AS REQUIRED FOR PROPER SUPPORT AND STRUCTURAL INTEGRETY.
- 3) DO NOT DRILL HOLES OR WELD TO EXISTING STRUCTURAL MEMBERS UNLESS APPROVED BY LANDLORD IN WRITING.
- 4) ATTACHMENT TO TOP CHORD IS PERMITTED AS SHOWN ABOVE. ATTACHMENT TO BOTTOM BY LANDLORD IN WRITING.
- 5) TRANSFORMER WEIGHT TBD IN FIELD. OBTAIN LANDLORD APPROVAL PRIOR TO EXECUTING THIS WORK.

TENANT E.C. SHALL BE

AND OPERABLE / CODE

COMPLIANT INSTALLATION

SERVICE BUS TO TENANT

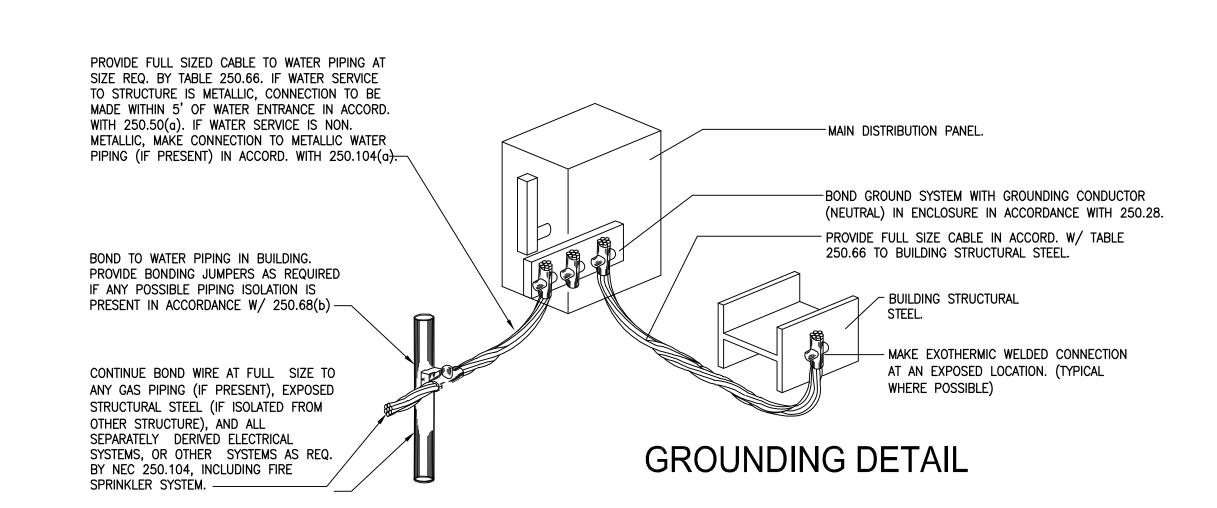
SPACE AND THROUGHOUT

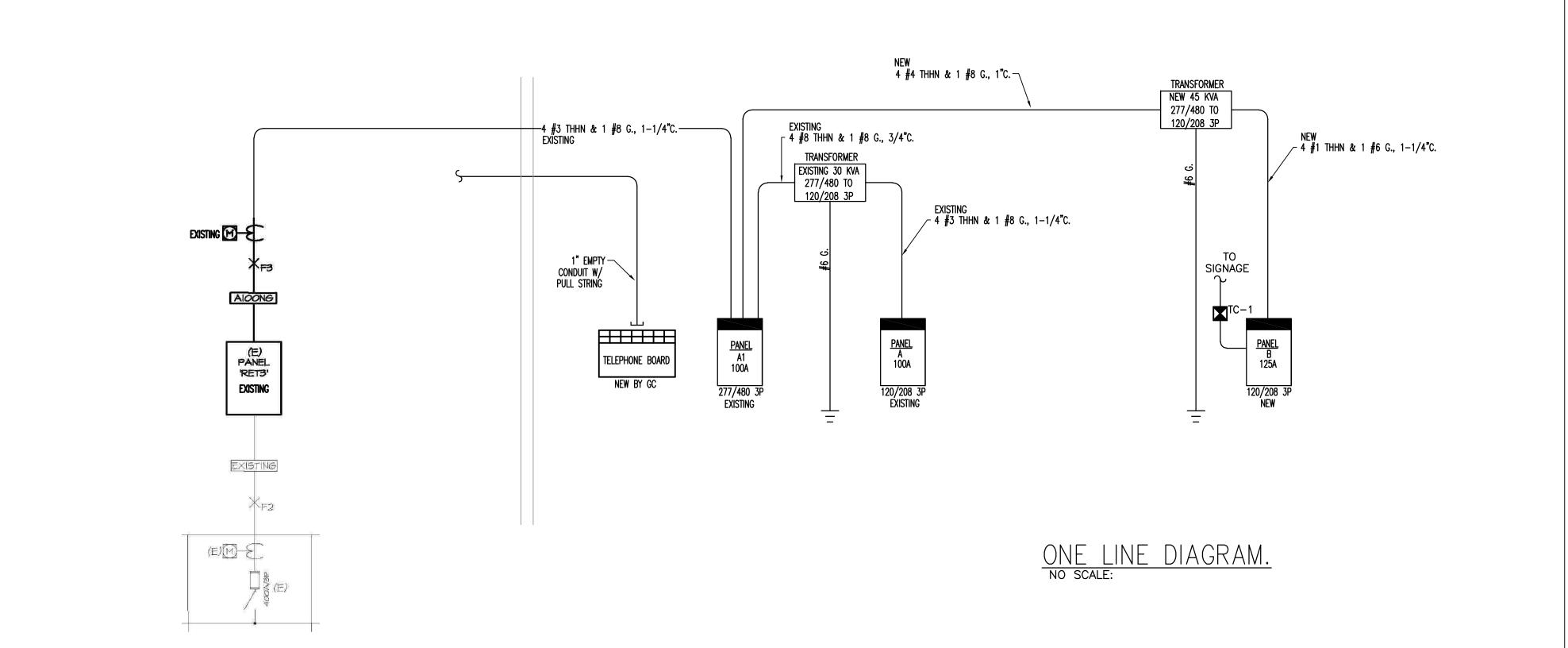
TENANT SPACE.

FROM EXISTING LANDLORD

RESPONSIBLE FOR COMPLETE

TRANSFORMER MOUNTING





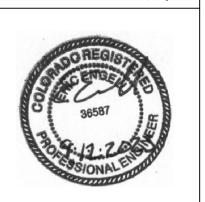
CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BID AND REPORT ANY DISCREPANCIES BACK TO OWNER. G.C. SHALL COORDINATE ALL SUB CONTRACTORS AND ENSURE A COMPLETE FULLY CODE COMPLIANT AND PROFESSIONALLY FINISHED TENANT SPACE.

ISSUED / REVISIONS:

ENGINEERING AND DESIGN PLLC

PO Box 213 (Mailing) Fax (606)-364-2886

Annville, KY 40402 E-Mail: eric@emrengineers.col
Web Address: emrenaineers.



PERSPIBE SAUNA STUDIO

2450 SOUTH UP

CHECKED BY: Staff

DRAWN BY: Staff

DATE: SEPTEMBER 12, 2023

SCALE: PER PLAN

PROJECT No.: PSS 2401

ELECTRICAL
ONE LINE
DIAGRAM

Project Information

Energy Code 2012 IECC Project Title: PERSPIRE SAUNA STUDIO Alteration Project Type

Construction Site: 505 EAST HICKMAN ROAD SUITE 140 WAUKEE, IA 50263

Owner/Agents

Designer/Contractor: ERIC ENGELL EMR ENGINEERING AND DESIGN 4236 HWY 3630 PO BOX 213 ANNVILLE, KY 40402 606-364-2886 eric@emrengineers.com

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-LOBBY (Common Space Types Office - Open plan)	220	1.00	220
2-RESTROOM (Common Space Types:Restroom)	65	1.00	65
3-SAUNA (Common Space Types Office - Open plan)	580	1.00	580
4-STORAGE (Common Space Types:Storage)	196	0.80	157
5-CORRIDOR (Common Space Types Comdor / Transition)	218	0.70	153
		Total Allowed Watts:	= 1174

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	# of Fixtures	Fixture Watt.	(C X D)
LOBBY (Common Space Types; Office - Open plan 220 sq.ff.) LED 1 8:4" LED DOWNLIGHT LED A Lamp 13W	1	6	13	78
LED 2. C. DRUM PENDANT: LED A Lamp 8W: RESTROOM (Common Space Types: Restroom 65 sq.t.)	1	3	38	114
LED 3 D. DRUM PENDANT: LED A Lamp 8W: LED 4 E. BACKLIT MIRROR: LED Linear 20W	1	1 1	19 20	19 20
SAUNA (Common Space Types:Office - Open plan 580 sq.ft.) LED 5 G:6" LED DOWNLIGHT LED PAR 10W	প	9	10	90
STORAGE (Common Space Types:Storage 196 sq.ft.) LED 5 copy 1: H: 2X4 LAYIN LED: LED Panel 33W:	1	4	34	136
CORRIDOR (Common Space Types:Corridor / Transition 218 sq.ft.) LED 2 copy 1 C DRUM PENDANT LED A Lamp 8W	1	3	38	114
LED 1 copy 1 B 4" LED DOWNLIGHT LED A Lamp 13W	1	11	13	13
		Total Propos	sed Watts =	584

Project Title: PERSPIRE SAUNA STUDIO Report date: 06/13/23 Data filename: P:\MAHII EDS INC\2023\Perspire\PSS 2315 WAUKEE IOWA\ENERGY\Perspire WAUKEE IOWA.cck Page 1 of 7

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2. 1 [EL22] ²	Automatic controls to shut off all building lighting installed in all buildings.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C405.2.1. 1 [EL23] ²	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C405.2.1 2 [EL15] ¹	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C405.2.2. 3 [EL16] ²	Daylight zones provided with individual controls that control the lights independent of general area lighting.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C405.2.3 [EL17] ³	Sleeping units have at least one master switch at the main entry door that controls wired luminaires and switched receptacles.	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.
C405.2.2. 2 [EL18] ¹	Occupancy sensors installed in required spaces.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C405 .2 .2 . 3 [EL20] ¹	Primary sidelighted areas are equipped with required lighting controls.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C405,2.2. 3 [EL21] ¹	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.
C405.2.3 [EL4] ¹	Separate lighting control devices for specific uses installed per approved lighting plans.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C405.3 [EL19] ³	Fluorescent luminaires with odd numbered lamp configurations that are within 10 feet center to center (if recess mounted) or are within 1 foot edge to edge (if pendant or surface mounted) shall be tandem wired.	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.
C405.4 [EL6] ¹	Exit signs do not exceed 5 watts per face.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C405.2.3 [EL8] ¹	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	Complies Does Not Not Observable Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: PERSPIRE SAUNA STUDIO Data filename: P:\MAHU EDS INC\2023\Perspire\PSS 2315 WAUKEE IOWA\ENERGY\Perspire WAUKEE IOWA.cck Page 4 of 7 nterior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans; specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.1.5 5 and to comply with any applicable mandatory requirements listed in the inspection Checklist.

Name - Title

Project Title: PERSPIRE SAUNA STUDIO Report date: 06/13/23 Data filename: P.\MAHU EDS INC\2023\Perspire\PSS 2315 WAUKEE IOWA\ENERGY\Perspire WAUKEE IOWA\ccir Page 2 of 7

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Data filename: P\MAHU EDS INC\2023\Perspire\PSS 2315 WAUKEE IOWA\ENERGY\Perspire WAUKEE IOWA.cck Page 5 of 7

Project Title: PERSPIRE SAUNA STUDIC

COMcheck Software Version 4.1.5.5

Requirements: 30.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Compiles?	Comments/Assumations
C103.2 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: PERSPIRE SAUNA STUDIO Report date: 06/13/23 Data filename: P:\MAHIII EDS INC\2023\Perspire\PSS 2315 WAUKEE IOWA\ENERGY\Perspire WAUKEE IOWA.cck Page 3 of 7

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408,2,5, 1 [FI16] ³	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C303.3, C408.2.5, 2 [FI17] ³	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C405.5.2 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	□Complies □Does Not □Not Observable □Not Applicable	See the Interior Lighting fixture schedule for values.
C408.3 [FI33] ¹	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	Complies Does Not Not Observable Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: PERSPIRE SAUNA STUDIO Data filename: P:\MAHU EDS INC\2023\Perspire\PSS 2315 WAUKEE IOWA\ENERGY\Perspire WAUKEE IOWA.cck Page 6 of 7

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BID AND REPORT ANY DISCREPANCIES BACK TO OWNER.
G.C. SHALL COORDINATE ALL SUB
CONTRACTORS AND ENSURE A COMPLETE
FULLY CODE COMPLIANT AND
PROFESSIONALLY FINISHED TENANT SPACE.

ISSUED / REVISIONS:



9

CHECKED BY: Staff
DRAWN BY: Staff

DRAWN BY: Staff

DATE: SEPTEMBER

SCALE: PER PLAN

PROJECT No.: PSS 2401 SEPTEMBER 12, 2023

SHEET TITLE **ENERGY** COMPLIANCE

OCCUPANCY	OCCUPANCY DENSITY	SQUARE	TOTAL	CFM PER	OUTDOOR	OUTDOOR AIR	OUTDOOR	TOTAL O/A REQUIRED
CLASSIFICATION	PER 1000 SF	FOOTAGE	OCCUPANCY	PERSON	AIR REQ'D	REQ'D PER SF	AIR REQ'D	(CFM/PERSON+CFM/SF)/0.8
SAUNA	10/1000	230	3	5	15	0.06	14	36
TOILET ROOM	N/A	65	N/A	N/A	0	0.06	4	5
OFFICE	5/1000	80	1	5	5	0.06	5	12
CORRIDORS	N/A	175	N/A	N/A	0	0.06	11	13
STORAGE	N/A	295	N/A	N/A	0	0.12	35	44
					·		TOTAL	111
							O/A REQ'D	SET FCU-1 TO 115 CFM

Table 403 3 1 1 Minimum Ventilation Requirements FCU-2

HVAC GENERAL NOTES

6. PROVIDE IONIZATION TYPE SMOKE DETECTORS WHERE SHOWN ON RETURN AND/OR SUPPLY DUCTS AS REQUIRED BY

ALL HVAC WORK TO BE PERFORMED SHALL BE IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL CODES.

9. PROVIDE TWO SETS OF FILTERS, MERV 12. ONE DURING CONSTRUCTION AND ONE FOR USE AFTER OCCUPANCY.

8. COORDINATE LOCATION OF ALL CEILING DIFFUSERS. GRILLES AND REGISTERS IN THE FIELD WITH THE ELECTRICIAN TO

10. ALL WORK OF THIS TRADE SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID ANY INTERFERENCES THAT MAY

11. ELECTRICALLY OPERATED EQUIPMENT AND COMPONENTS SHALL BE U.L. LISTED. GAS FIRED EQUIPMENT IF APPLICABLE

12. AIR BALANCE CONTRACTOR MUST BE AABC CERTIFIED. AN INDEPENDENT AIR BALANCE CONTRACTOR SHALL TEST AND

14. PROVIDE ACCESS FOR ALL COMPONENTS REQUIRING PERIODIC INSPECTION AND SERVICE THAT ARE LOCATED WITHIN THE

15. CONTRACTOR SHALL INSTALL ALL NECESSARY OFFSETS, BENDS, AND TRANSITIONS REQUIRED TO PROVIDE A COMPLETE

17. CONTRACTOR SHALL INSTALL TURNING VANES AT ALL RECTANGULAR DUCTWORK TEES AND 90° ELBOWS WITHIN MAIN

19. ALL DUCTWORK & INSULATION SHALL BE FABRICATED & INSTALLED ACCORDING TO THE MOST RECENT PUBLISHED

ASHRAE & SMACNA STANDARDS. ALL DUCT JOINTS, SEAMS AND CONNECTIONS SHALL BE SECURELY FASTENED. SEALED, AND TAPED IN ACCORDANCE WITH THE CURRENT ENERGY CONSERVATION CODE INCLUDING UUL 181A AND 181B TAPES AND MASTICS. DUCT COVERINGS AND LININGS SHALL HAVE A FLAME SPREAD INDEX NOT MORE THAN 25 AND A

20. ALL RECTANGULAR, ROUND & FLEXIBLE DUCTS SHALL BE SIZED AS SHOWN ON THESE DRAWINGS. MINIMUM INTERNAL DIMENSIONS ARE GIVEN. THE CONTRACTOR SHALL INCREASE THE DUCT SIZE ACCORDINGLY FOR INTERNAL INSULATION. ALL DUCTWORK EXCEPT THE ROUND FLEXIBLE TYPE SHALL BE GALVANIZED STEEL. FIBERGLASS DUCT-BOARD SHALL BE

21. RETURN DUCTS SHALL HAVE A MINIMUM 1" THICK, 1.5 PCF DENSITY INSULATION OR AS REQUIRED BY CURRENT ENERGY

23. ALL FLEXIBLE ROUND SUPPLY DUCT SHALL BE THERMAFLEX G-KM AIR DUCT LISTED AS CLASS 1 BY UL STANDARD 181

24. ALL ROUND TAKE-OFFS FROM RECTANGULAR DUCTS SHALL BE A "CREATIVE METALS, INC." SPIN-TITE FITTING, MODEL

LENGTHS FROM THE EVAPORATOR TO THE CONDENSER. REFRIGERANT LINES SHALL BE SIZED BY MANUFACTURER.

PROVIDE THERMAL EXPANSION VALVES WITH HARD SHUT-OFFS & FILTER DRYER AT EVAPORATOR COILS. INSULATE THE

25. REFRIGERANT LINES IF APPLICABLE SHALL BE TYPE "L" COPPER TUBING IN CONTINUOUS, UNCOUPLED & UNSPLICED

26. AIR DEVICES ABOVE DRYWALL CEILINGS SHALL HAVE OPPOSED-BLADE DAMPER WITH DEVICES. AIR DEVICES ABOVE

28. SIZE OF DUCT TAKE-OFFS TO CEILING DIFFUSERS AND SUPPLY GRILLS IS SAME AS AIR DEVICE NECK SIZE, UNLESS

29. PROVIDE WHITE ON RED BACK GROUND ENGRAVED PLASTIC NAME PLATES WITH 1" LETTERING FOR ALL MECHANICAL

32. THE FOLLOWING SPECIFICATIONS SHALL GOVERN WITH MODIFICATIONS AS SPECIFIED HEREIN; AMERICAN SOCIETY OF

34. GENERAL CONTRACTOR, HVAC SUBCONTRACTOR AND ARCHITECT SHALL REVIEW THE PROPOSED LOCATIONS OF ALL

SUPPLY AND RETURN REGISTERS IN THE FIELD PRIOR TO FABRICATION OR INSTALLATION OF NEW DUCTWORK. 35. GENERAL CONTRACTORS SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING (FLOORS, CEILINGS, WALL) REQUIRED

36. ALL DUCTS RUN THROUGH UNCONDITIONED SPACES (I.E. ATTICS, CRAWL SPACE) SHALL BE INSULATED (I.E. WRAPPED

37. NEW SYSTEM, ONCE COMPLETED, SHALL BE TESTED AND BALANCED TO THE SATISFACTION OF THE OWNER. TEST RUNS

33. EXTEND EXISTING FORCED AIR HEATING AND COOLING SYSTEM INTO NEW AREAS. HVAC SUBCONTRACTOR TO DETERMINE

WHETHER NEW EQUIPMENT IS REQUIRED OR WHETHER A SUPPLEMENTAL UNIT IS REQUIRED. PROPOSAL SHALL INDICATE

INSULATION BLANKET WRAP WITH FACTORY-APPLIED REINFORCED KRAFT PAPER & ALUMINUM FOIL VAPOR BARRIER. OR

& COMPLYING WITH NFPA 90A & 90B. DUCT SHALL BE FACTORY MADE & COMPOSED OF A CPE LINER BONDED TO A COATED STEEL WIRE HELIX SUPPORTING A FIBERGLASS SCRIM & 1-1/2" FIBERGLASS INSULATING BLANKET WRAP WITH

BLACK POLYETHYLENE FILM VAPOR BARRIER. MAX. LENGTH SHALL SHALL BE 4'-0". USE 1" X 16 GA HANGER STRAPS.

INSTALL 2 WRAPS OF DUCT TAPE OVER LINER WITH 4 SCREWS OR 1/2" WIDE METAL BAND CLAMP OR PANDUIT STRAP.

22. SUPPLY, TRANSFER AND OUTDOOR AIR DUCTS SHALL HAVE MINIMUM OF 1 1/2" THICK, 0.75 PCF FIBERGLASS

16. CONTRACTOR SHALL INSTALL THERMOSTATS AT 48" ABOVE THE FINISHED FLOOR TO ANY OPERABLE COMPONENT.

SPACE OR REQUIRE ACCESS THROUGH THE SPACE. LABEL ACCESS DOORS AND PANELS OR CEILING TILES, RETURN REGISTERS OR DIFFUSERS UTILIZED FOR ACCESS WITH THE NAME OF THE HIDDEN COMPONENT(S). DEMONSTRATE

BALANCE TO THE AIR QUANTITIES ON THE PLAN AND PROVIDE A T & B REPORT FOR APPROVAL, IN ACCORDANCE WITH

AIR BALANCE COUNCIL STANDARDS. THREE COPIES OF THE TEST REPORT SHALL BE FURNISHED FOR REVIEW AND MUST

A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL AT A CONSTANTLY ATTENDED LOCATION PER CODE.

13. CONTRACTOR SHALL FURNISH SHOP DRAWINGS FOR DUCTWORK, AIR DEVICES, AND ALL EQUIPMENT.

ACCESS TO ALL HIDDEN COMPONENTS FOR THE FIELD REPRESENTATIVE PRIOR TO OCCUPANCY.

CODE. UPON ACTIVATION, THE SMOKE DETECTORS SHALL SHUT DOWN THE AIR DISTRIBUTION SYSTEM. THE SMOKE DETECTORS SHALL BE CONNECTED TO A FIRE ALARM SYSTEM. THE ACTUATION OF A SMOKE DETECTOR SHALL ACTIVATE

HEATING AND COOLING SYSTEM.

CONTRACTOR SHALL PROVIDE ALL REQUIRED HVAC PERMITS.

FOR ONE (1) YEAR FROM THE CERTIFICATE OF OCCUPANCY.

PREVENT CONFLICT WITH LIGHTS AND ARCHITECTURAL ELEMENTS.

COORDINATE BOX LOCATIONS WITH THE ELECTRICAL CONTRACTOR.

SMOKE DEVELOPED INDEX NOT MORE THAN 50.

AS REQUIRED BY CURRENT ENERGY CODE

INSTALL 2 WRAPS OF DUCT TAPE OVER JACKET & CLAMP.

SUCTION LINES WITH ARMSTRONG AP ARMAFLEX SS.

OTHERWISE NOTED.

INTENDED APPROACH

EQUIPMENT, I.E. RTU-1, EF-1, ETC.

MSED (SPIN-IN WITH SCOOP & DAMPER) OR APPROVED EQUAL.

LAY-IN CEILINGS SHALL HAVE DUCT DAMPERS WHERE SHOWN ON THE PLANS.

27. HVAC CONTRACTOR SHALL COORDINATE CONDENSATE DRAINS WITH PLUMBING CONTRACTOR.

30. PROVIDE MINIMUM CLEARANCE FOR ALL HVAC EQUIPMENT REQUIRED FOR PROPER MAINTENANCE.

BY THE NEW DUCTWORK. LANDLORD APPROVAL IN WRITING REQUIRED PRIOR TO ALL CUTTING.

WITH MINIMUM OF R6 INSULATION OR AS REQUIRED BY CURRENT ENERGY CODE).

SHALL BE PERFORMED FOR BOTH HEATING AND COOLING MODES.

HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS (ASHREA) HANDBOOK FUNDAMENTALS.

31. PRIME AND PAINT ALL OUTDOOR FERROUS MATERIALS WHICH WERE NOT PREVIOUSLY PAINTED.

18. CONTRACTOR SHALL PROVIDE EQUIPMENT OF THE SCHEDULED CAPACITIES DESIGNED.

AN ACCEPTABLE ALTERNATE WHERE ACCEPTABLE TO LOCAL CODE. IS NOT PERMITTED.

DELAY PROGRESS DURING CONSTRUCTION.

BE APPROVED BEFORE OCCUPANCY.

SHALL BE A.G.A. LABELED.

TRUNK DUCTS.

3. THE CONTRACTOR SHALL COMPLY WITH NFPA-90A AND ALL APPLICABLE CODES.

PROVIDE ALL SWITCHES, DISCONNECTS. THERMOSTATS SHALL BE AS SPECIFIED.

1 abic +03.3.1	. I willing well a	ation Requ	inements ici	J- Z				
OCCUPANCY	OCCUPANCY DENSITY	SQUARE	TOTAL	CFM PER	OUTDOOR	OUTDOOR AIR	OUTDOOR	TOTAL O/A REQUIRED
CLASSIFICATION	PER 1000 SF	FOOTAGE	OCCUPANCY	PERSON	AIR REQ'D	REQ'D PER SF	AIR REQ'D	(CFM/PERSON+CFM/SF)/0.8
SAUNA	10/1000	230	2	5	10	0.06	14	30
LOBBY	30/1000	275	8	5	40	0.06	17	71
CORRIDORS	N/A	140	N/A	N/A	0	0.06	8	11
							TOTAL	101
							O/A REO'D	SET FCU-2 TO 110 CFM

- SUPPLEMENTAL UNIT IS REQUIRED. PROPOSAL SHALL INDICATE INTENDED APPROACH.
- GENERAL CONTRACTOR, HVAC SUBCONTRACTOR AND ARCHITECT SHALL REVIEW THE PROPOSED LOCATIONS OF ALL SUPPLY AND RETURN REGISTERS IN THE FIELD PRIOR TO FABRICATION OR INSTALLATION OF NEW DUCTWORK.
- GENERAL CONTRACTORS SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING (FLOORS, CEILINGS, WALL) REQUIRED BY THE NEW DUCTWORK. LANDLORD APPROVAL IN WRITTING REQUIRED PRIOR TO ALL CUTTING.
- ALL DUCTS RUN THROUGH UNCONDITIONED SPACES (I.E. ATTICS, CRAWL SPACE) SHALL BE INSULATED (I.E. WRAPPED WITH R6 INSULATION).
- NEW SYSTEM, ONCE COMPLETED, SHALL BE TESTED AND BALANCED TO THE SATISFACTION OF THE OWNER. TEST RUNS SHALL BE PERFORMED FOR BOTH HEATING AND COOLING MODES. CERTIFIED TEST AND BALANCE REPORT SHALL BE SUBMITTED TO LL AND TENANT.

	EXHAUST FAN SCHEDULE									
	CFM	SP " W.C.	RPM	DRIVE	WATTS	VOLTAGE PH. / HZ.	MANUFACTURER MODEL NO.	NOTES		
EF-1	80	0.25"	1,550	DIRECT	87	120/1/60	BROAN QTXE80	1,2,3		

THERMOSTATS

T) - THERMOSTAT MOUNTED AT 48" AFF

(RS)— REMOTE SENSOR MOUNTED AT 66"AFF

HONEYWELL T10 THEROMSTAT AND REMOTE SENSORS

 FAN SHALL BE MOUNTED IN CEILING WITH VIBRATION ISOLATORS. 2) FAN SHALL BE CONTROLLED BY THE TOILET ROOM LIGHT SWITCH. 3) FAN SHALL BE PROVIDED WITH LOW LEAKAGE BACKDRAFT DAMPER.

REUSE OF EXISTING EQUIPMENT

- 1. EXISTING HVAC UNIT(S) SHALL BE REUSED AS INDICATED ON THE DRAWINGS. THE MECHANICAL CONTRACTOR SHALL, PROVIDE ALL LABOR AND MATERIALS REQUIRED TO INSURE THAT THE EXISTING EQUIPMENT IS IN GOOD WORKING ORDER. POINTS OF SERVICE SHALL INCLUDE, BUT NOT BE LIMITED, TO THE FOLLOWING:
- 2. REMOVE EXISTING AIR FILTERS AND REPLACE WITH NEW PLEATED AIR FILTERS. THOROUGHLY CLEAN ALL INTAKE LOUVERS OR SCREENS AND BOTH SIDES OF EVAPORATOR AND CONDENSING COILS.
- 3. CHECK ALL BELTS FOR WEAR, ALIGNMENT AND PROPER TENSION (ADJUST AND REPLACE AS NEEDED) 4. TIGHTEN MOTOR MOUNTS AS REQUIRED.
- 5. INSPECT AND LUBRICATE MOTORS, BEARINGS, AND SHAFTS AS PER MANUFACTURERS REQUIREMENTS.
- 6. INSPECT REFRIGERANT SYSTEM FOR LEAKS AND PROPER CHARGE, REPAIR LINES AND ADD REFRIGERANT IF NECESSARY.
- 7. THOROUGHLY CLEAN INTERIOR OF UNIT, INCLUDING BLOWER WHEEL AND DAMPER BLADES.
- 8. CONTRACTOR MAY CLEAN AND REUSE EXISTING DUCTWORK, SUPPLY DIFFUSERS, RETURN GRILLS AND THERMOSTAT IF THEY ARE IN GOOD CONDITION AND MATCH THE SIZE AND SPECIFICATIONS OF WHAT IS CALLED OUT ON THESE CONSTRUCTION DOCUMENTS.
- 9. CONTRACTOR SHALL PROVIDE NEW DUCTWORK, SUPPLY DIFFUSERS AND RETURN GRILLS AS NECESSARY TO SATISFY THE INTENT OF THESE DRAWINGS.
- 10. ENTIRE HVAC SYSTEM SHALL CONFORM TO ALL LOCAL, STATE AND APPLICABLE CODES.
- 11. THE MECH. CONTR. MUST VERIFY ALL EXISTING CONDITIONS AND SERVICES AT THE JOB SITE.

GRILLI	E, RI	E, REGISTER & DIFFUSER SCHEDULE								
	MARK	MFGR.	MODEL	NECK VELOCITY FPM (MAX)	DEVICE SIZE	AIR PATTERN	MOUNTING	TYPE		
	S-1 XX	TITUS	TMS	300	24" X 24"	ALL-WAY	PER PLAN	SUPPLY		
	S-2	TITUS	FL-20	300	10" X 48"	(2)2" SLOT 10"ø INLET	SURFACE	SUPPLY		
	S-2 XX	PROVIDE WITH ALL ASSOCIATED INSTALLATION COMPONENTS FOR COMPLETE, OPERAB AND PROFESSIONAL INSTALLATION. FACTORY PLENUM AND FINISH END CAPS FOR HACELING INSTALLATION AND BALANCING DAMPERS ACCESSIBLE FROM FACE OF DIFFUS								
	S-3 XX	TITUS	TMS	300	12" X 12"	ALL WAY	PER PLAN	SUPPLY		
	R-1 XX	TITUS	50F	400	24" X 24"	ALL WAY HORIZONTAL	PER PLAN	RETURN		
	R-2 XX	TITUS	50F	300	12" X 12"	ALL WAY	PER PLAN	RETURN		
	R-3	PLITIT	50F	300	24" Y 12"	ALL WAY	PFR PI AN	RETURN		

100-175 CFM 8' 176-2<u>75 CFM 1</u> 276-400 CFM

DIFFUSER NECK SIZING

SHEET NOTES INSTALLATION CRITERIA 1\EXISTING 4 TON AHU-1 TO REMAIN.

2\EXISTING 6 TON AHU-2 TO REMAIN. Z/REFURBISH TO LIKE NEW IN PLACE TEXISTING ERV-1, GREENHECK MINICORE

PREFURBISH TO LIKE NEW IN PLACE

NO ALTERNATES ACCEPTED.

10VG-F TO REMAIN. REFURBISH TO LIKE NEW IN PLACE 4 TSTAT MOUNTED AND SMOKE DETECTOR

 $\stackrel{\bot}{\longrightarrow}$ Test station at 48" Aff $\langle 5 \rangle$ SMOKE DETECTOR FOR UNIT SHUTDOWN

MECHANICAL CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND MODIFY AS REQUIRED TO DISTRIBUTE AIR WITHIN THE SPACE AS SHOWN ON PLAN.

SUPPLY AND RETURN DUCTWORK SHALL BE INSTALLED TO MEET OR EXCEED ALL CODE REQUIREMENTS AND WITHIN ACCEPTABLE INDUSTRY STANDARDS. M.C. SHALL PROVIDE FOR A COMPLETE AND OPERABLE SYSTEM. REPLACE ANY EXISTING COMPONENTS AS REQUIRED. M.C. SHALL BE RESPONSIBLE FOR PROVIDING

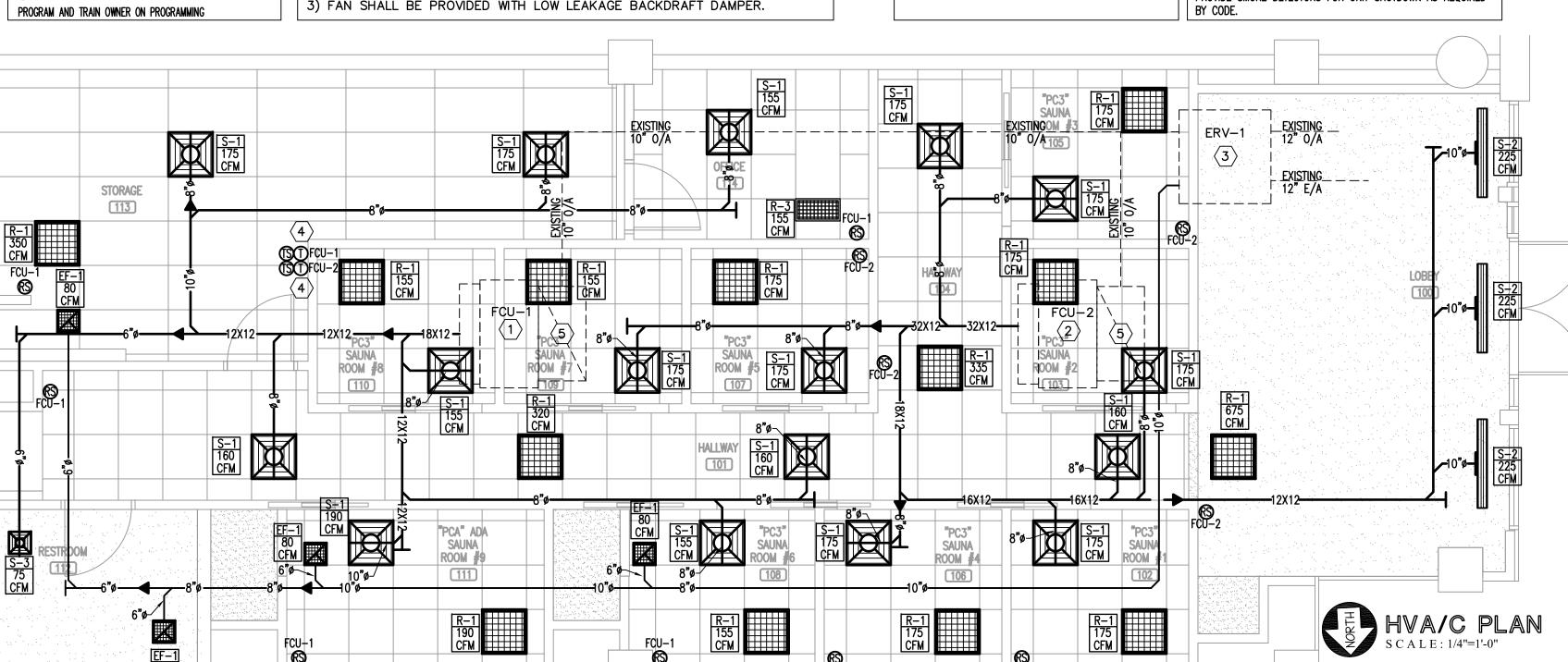
WARRANTY OF ALL WORK. MAIN TRUNK SUPPLY DUCT WITH NO AIR DIFFUSERS NOT TO

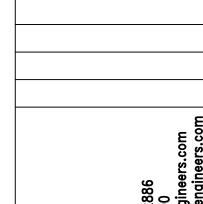
EXCEED 1000 FEET PER MINUTE VELOCITY. ALL SUPPLY BRANCH AND RETURN DUCTWORK SHALL BE

DISTRIBUTION SUPPLY / RETURN DUCT WITH AIR DIFFUSERS /GRILLS NOT TO EXCEED 500 FEET PER MINUTE VELOCITY.

INSTALLED NOT TO EXCEED 500 FEET PER MINUTE VELOCITY.

AIR AT DIFFUSERS FACE NOT TO EXCEED 500 FEET PER MINUTE. PROVIDE SMOKE DETECTORS FOR UNIT SHUTDOWN AS REQUIRED





CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS

PRIOR TO BID AND REPORT ANY DISCREPANCIES BACK TO OWNER. G.C. SHALL COORDINATE ALL SUB CONTRACTORS AND ENSURE A COMPLETE

FULLY CODE COMPLIANT AND

PROFESSIONALLY FINISHED TENANT SPACE.

ISSUED / REVISIONS:

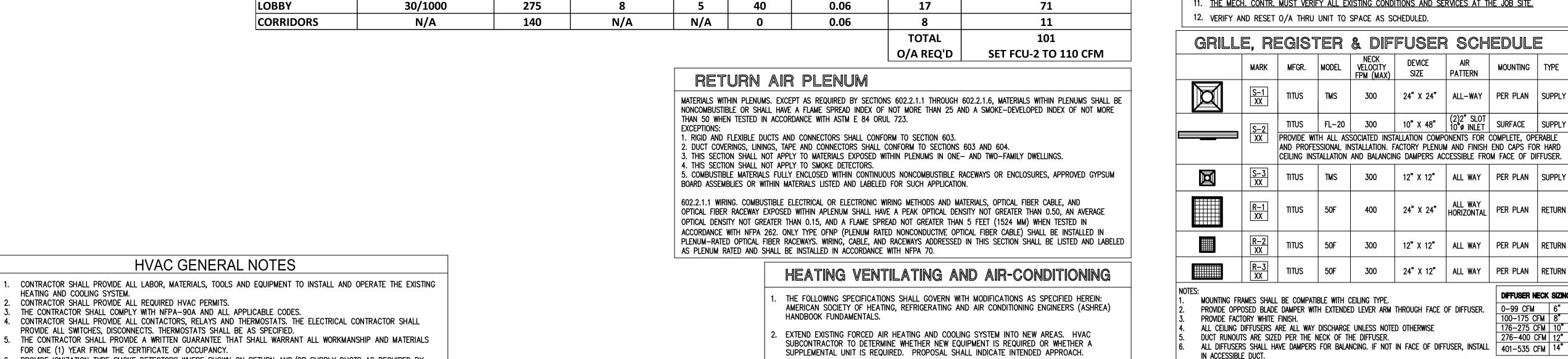


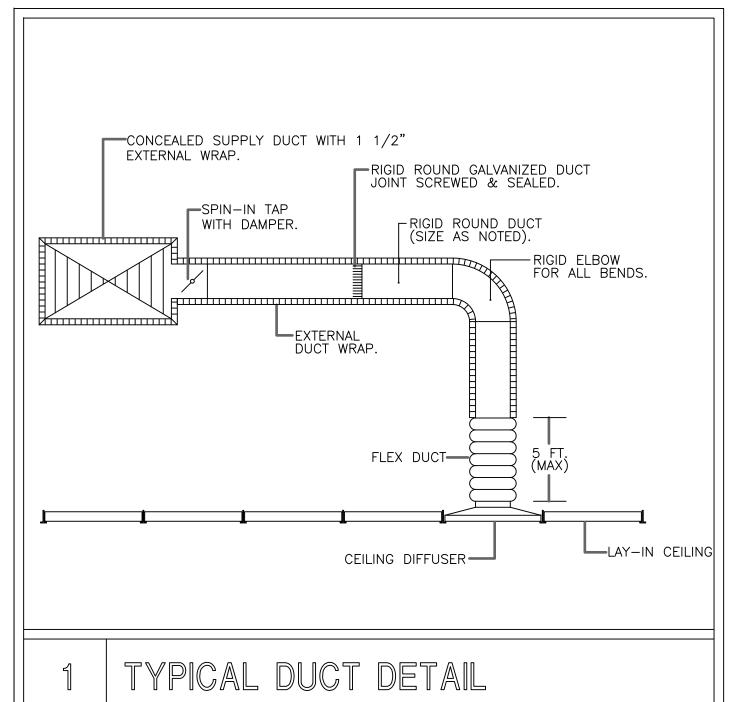
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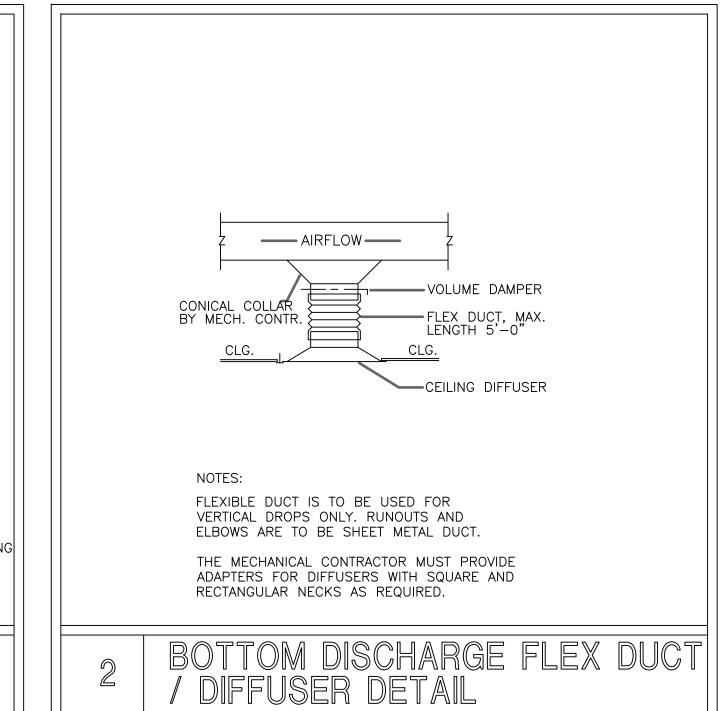
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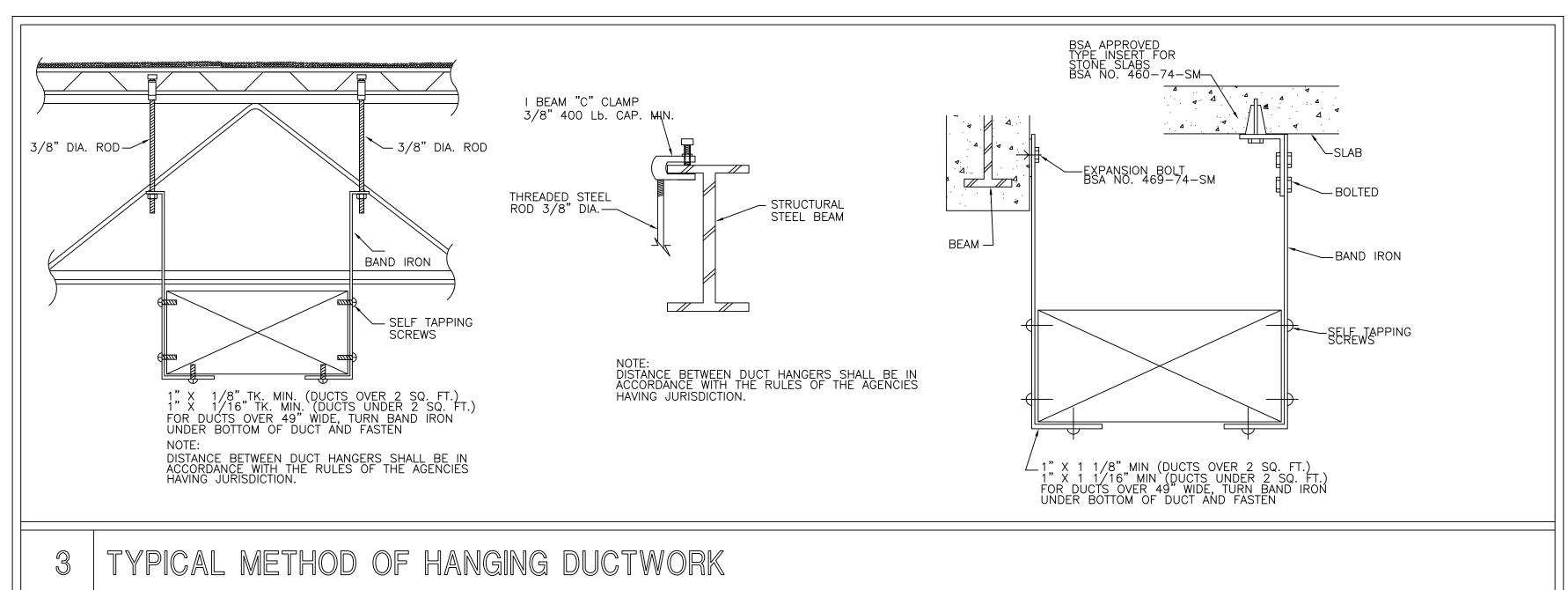
CHECKED BY: Staff DRAWN BY: Staff **SEPTEMBER 12, 2023** PER PLAN SCALE: PROJECT No.: PSS 2401

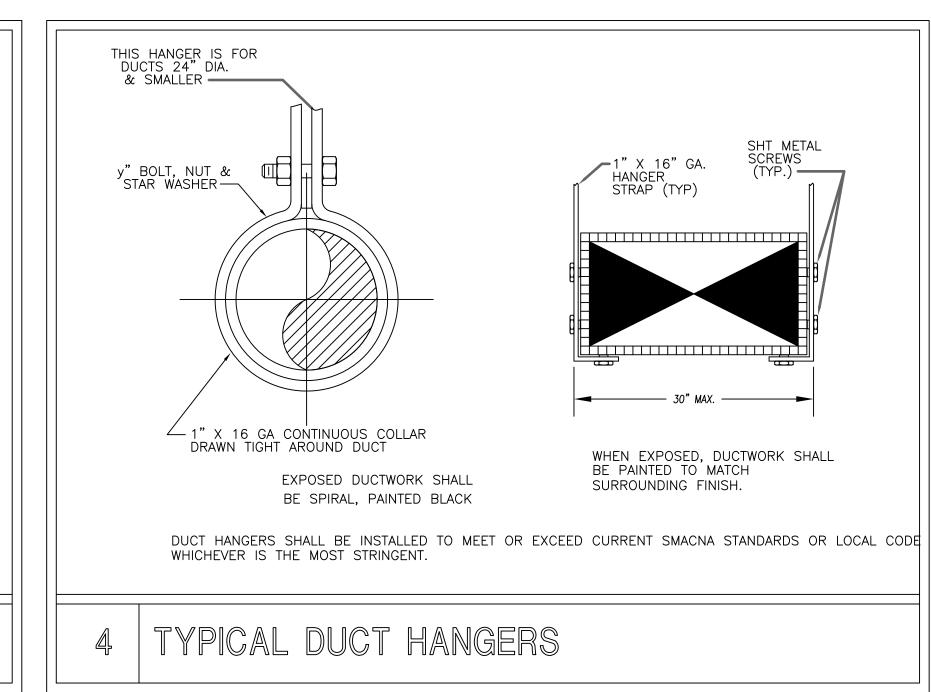
Ш SHEET TITLE HVA/C FLOOR PLAN AND **SCHEDULES**

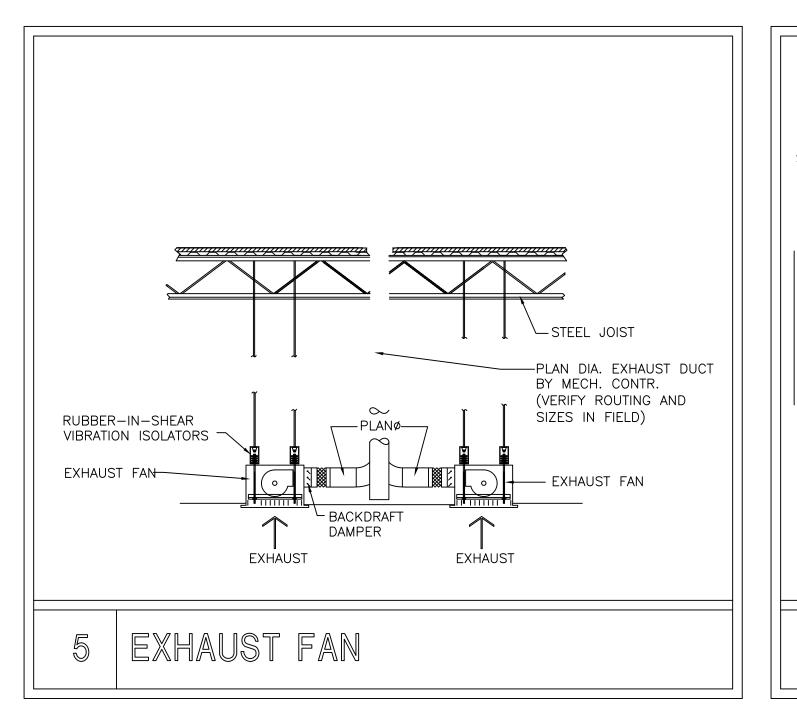


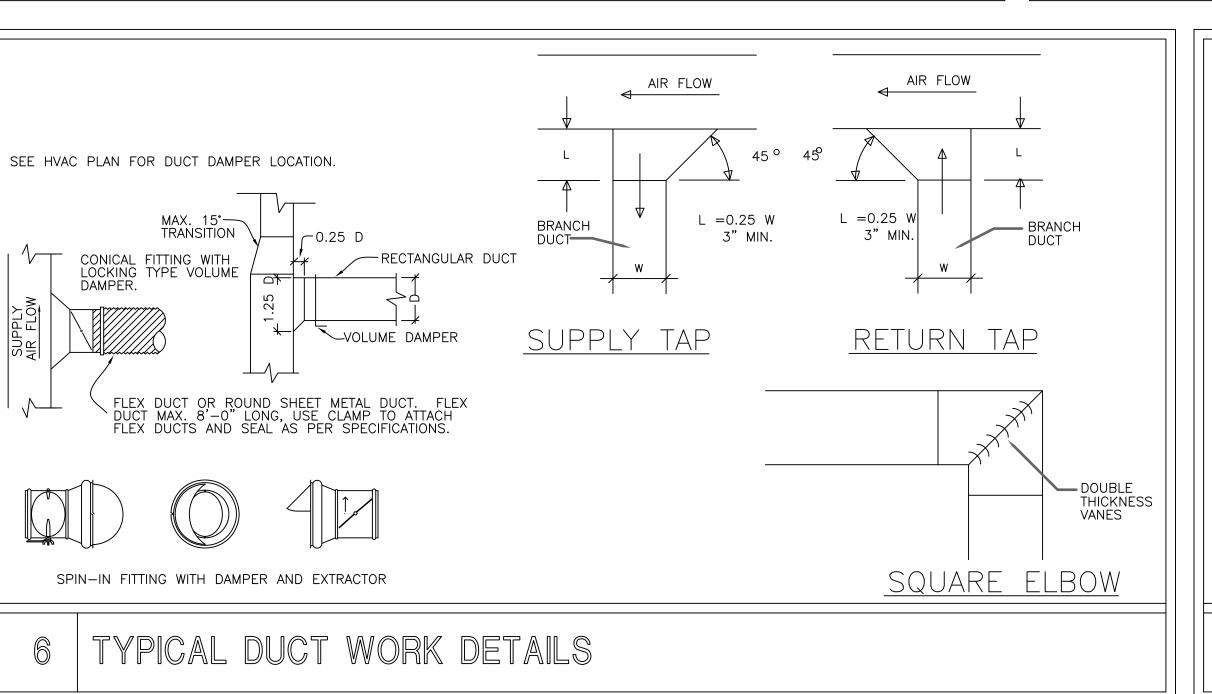


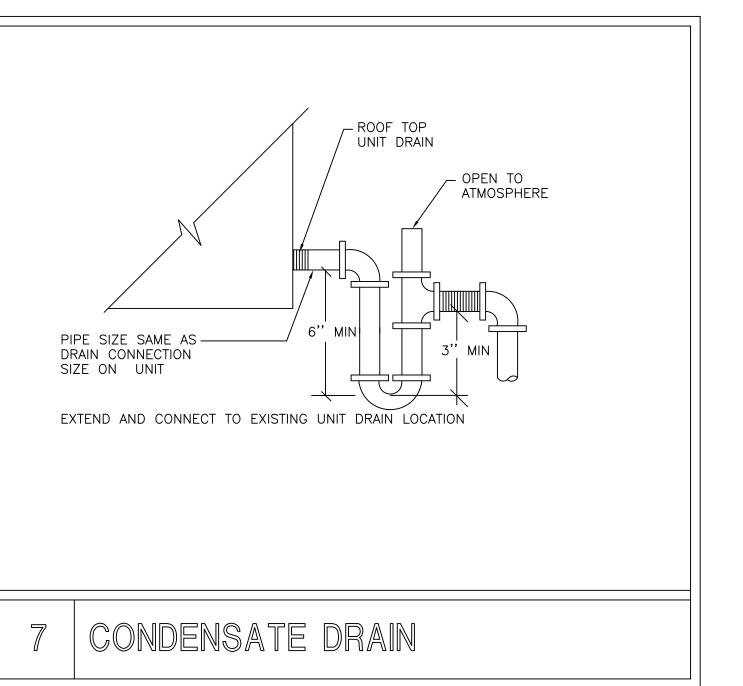


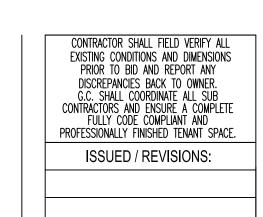


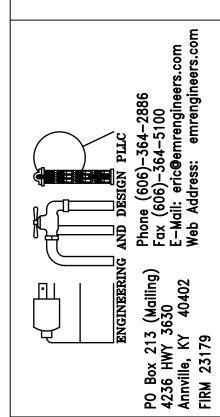




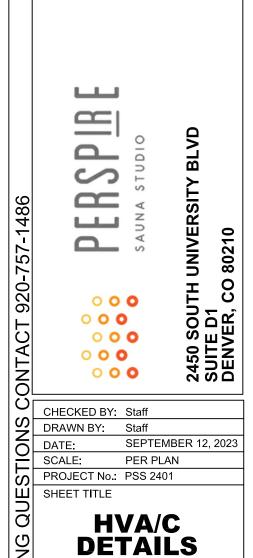












SHEET No.

TABLE 709.1 DRAINAGE	FIXTURE UNITS							
TABLE 709.1 DRAINAGE FIXTURE UNITS								
FIXTURE	DFU							
DRINKING FOUNTAIN	0.5							
FLOOR DRAIN	2.0							
KITCHEN SINK	2.0							
LAVATORY	1.0							
SERVICE SINK	2.0							
SHOWER	2.0							
WATER CLOSET	4.0							
CLOTHS WASHER	2.0							
710.1(1)								

3" SLOPED AT 1/8" PER FOOT MAXIMUM CONNECTED 36 DRAINAGE FIXTURE UNITS
4" SLOPED AT 1/8" PER FOOT MAXIMUM CONNECTED 180 DRAINAGE FIXTURE UNITS

GENERAL	NOTES

- A. VERIFY EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF UTILITIES AND PIPING BEFORE COMMENCEMENT OF WORK, AND IMMEDIATELY NOTIFY PROJECT MANAGER OF ANY DISCREPANCIES.
- B. CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR SERVICE AND CONNECTIONS AND PAY FOR ALL PERMITS, FEES, CHARGES AND METERS.
- C. TERMINATE ALL VENT AND FLUE OUTLETS AT 10'-0" MINIMUM FOR ANY FRESH AIR INTAKES

 D. INSTALL ALL PLUMBING TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL
- EQUIPMENT AND STRUCTURAL FRAMING. NO WATER OR DRAIN LINES PERMITTED OVER UNDER ELECTRICAL PANELS. INSURE THAT ALL WATER LINES INSIDE ARE ADEQUATELY SECURED.

 E. PROVIDE FAUCETS UNLESS OTHERWISE NOTED, TRAPS, STOPS, GATE VALVE, GAS COCKS, WATER HAMMER ARRESTORS, WALK THE NOTES, COVERS, FLEX CONNECTIONS, SHUT OFF VALVES AND INDIRECT WASTE TO AN APPROVED RECEPTOR AND ALL NECESSARY TRIM FOR
- F. RECORD ON AS BUILT DRAWINGS ALL SIZES, LOCATIONS, INVERTS AND MATERIALS OF EXISTING PIPES THAT ARE ENCOUNTERED AND NEW PIPES INSTALLED DURING THE COURSE OF THE PROJECT DELIVER AS BUILD'S TO THE CONSTRUCTION MANAGER AT THE END OF THE PROJECT
- G. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL AND FEDERAL CODES, RULES
 AND REGULATIONS GOVERNING THIS PROJECT
- H. UPON COMPLETION OF JOB, INSPECT ALL EXPOSED PORTIONS OF THE PLUMBING INSTALLATIONS AND COMPLETELY REMOVE ALL EXPOSED LABELS, SOIL, MARKINGS, AND FOREIGN MATERIAL EXCEPT PRODUCT LABELS AND THOSE REQUIRED BY LAW
- I. PROVIDE FLEXIBLE GAS CONNECTIONS TO WATER HEATER AND COOKING EQUIPMENT. PROVIDE RIGID GAS CONNECTIONS TO ALL OTHER EQUIPMENT IN APPLIANCES AND WHERE LOCAL JURISDICTION PROHIBITS THE USE OF FLEXIBLE CONNECTIONS
- J. VERIFY ALL EQUIPMENT AND APPLIANCE CONNECTION SIZES PRIOR TO MAKING FINAL CONNECTION. REDUCE BRANCH PIPE SIZING JUST PRIOR TO CONNECTION TO THE UNIT. PROVIDE ALL MATERIALS FOR CONNECTION TO ALL EQUIPMENT AND FIXTURES.
- M. PROVIDE FIRE BOOTS AT FIRE WALL AND FLOOR PENETRATIONS WHEN REQUIRED BY CODE. FOR PVC PIPING AND OTHER MATERIALS THE FIRE INSPECTIONS DEPARTMENT MAY REQUIRE PROTECTION AROUND.
- N. CONTRACTOR TO PROVIDE AND INSTALL CLAMPING RINGS AND COLLARS FOR ALL FLOOR DRAINS, FLOOR SINKS, FLOOR CLEANOUTS, AND ANY OTHER PLUMBING FLOOR PENETRATIONS. MAKE WATER TIGHT CONNECTION WITH WATERPROOFING MEMBRANE.
- O. WHEN WORKING IN A REMODEL OR TENANT FINISH OUT IN AN EXISTING OCCUPIED BUILDING, THE CONTRACTOR IS TO OBSERVE THE FOLLOWING. REMOVE EXISTING WASTE PIPING NOT TO BE REUSED OR IN USE BY OTHER TENANTS. AVOID CONFLICTS BETWEEN NEW AND EXISTING PIPING SYSTEMS. TO ENSURE PROPER INSTALLATION OF THE NEW PIPING VERIFY FLOWLINE ELEVATION AND LOCATION OF EXISTING PIPING CONNECTION POINTS.
- P. THE INTENT OF THE DRAWING HEREIN IS TO REPRESENT A COMPLETE WORKING SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL COMPONENTS NECESSARY TO PROVIDE A COMPLETE WORKING AND CODE COMPLIANT SYSTEM WHETHER SHOWN OR NOT SHOWN ON THE DRAWINGS.
- Q. GENERAL CONTRACTOR/ PLUMBING CONTACTOR TO SCOPE EXISTING SANITARY SEWER FOR VERIFICATION OF LINE CONDITION FROM THE TENANT SPACE TO THE EXTERIOR MAIN LATERAL AS REQUIRED. GENERAL CONTRACTOR TO PROVIDE VIDEO DOCUMENTATION OF EXISTING CONDITIONS TO FCDADSON.

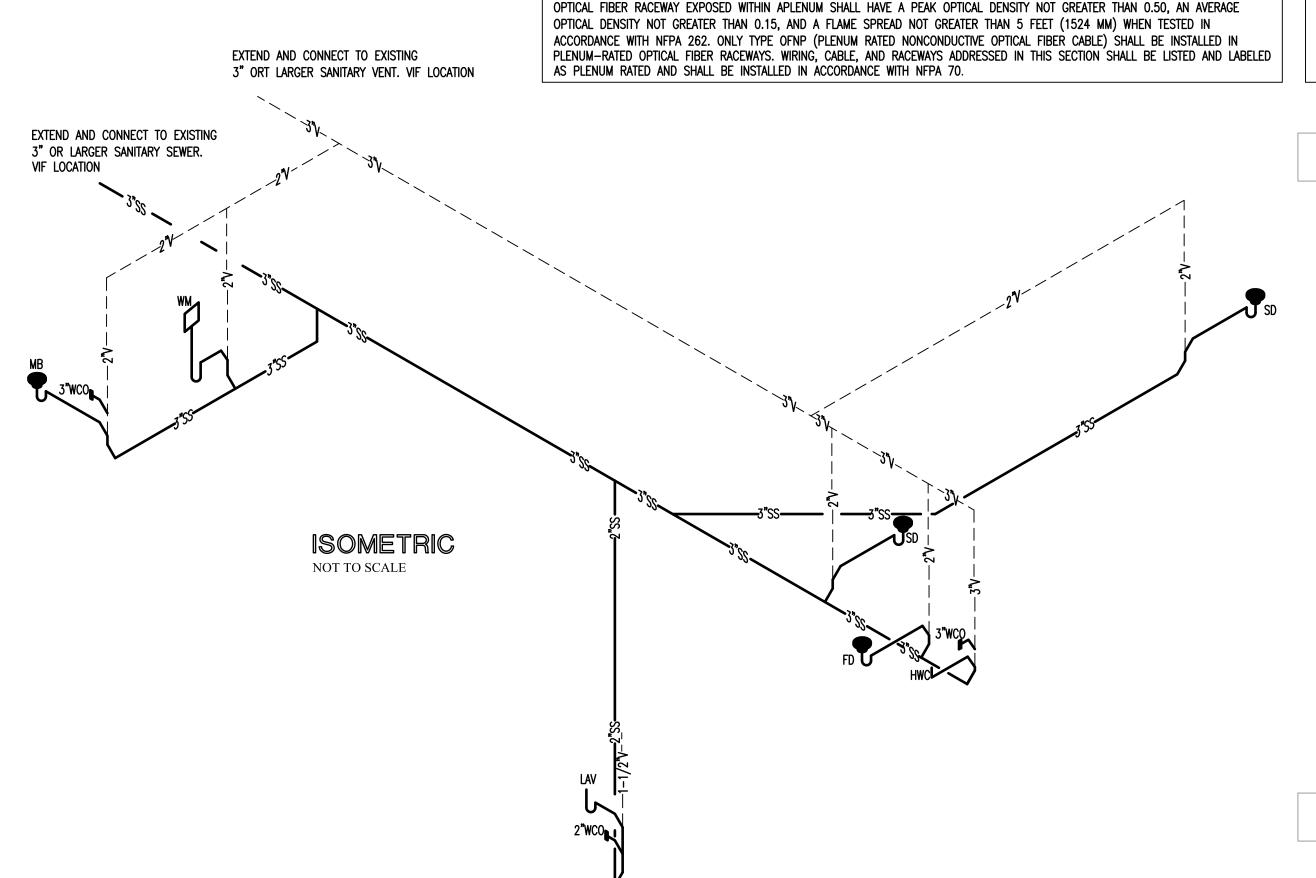
	PLUMBING FIXTURE SCHEDULE									
	MARK	FIXTURE	WASTE	VENT	CW	HW	DESCRIPTION / REMARKS			
	HWC	ACCESSIBLE WATER CLOSET	3"	3"	1/2"		ZURN Z5560 C1.6 GPF PRESSURE ASSIST, ADA HEIGHT, ELONGATED, TWO-PIECE TOILET, FLOOR MOUNTED VITREOUS CHINA, PRESSURE ASSIST FLUSH, 1.6 GPF. HANDLE SHALL BE INSTALLED ON WIDE SIDE PER ACCESSIBILITY REQUIREMENTS. OLSONITE #95SS OPEN FRONT SEAT LESS JR SMITH 9230 BRONZE CLOSET RING ASSEMBLY, COLOR TO BE WHITE. ZURN Z8800CR 3/8" POLISHED CHROME ANGLE SUPPLY WITH STOP.			
	LAV	LAVATORY WALL HUNG	2"	1-1/2"	1/2"	1/2"	KOHLER VOX 22" VESSEL SINK WITH OVERFLOW K-2660-1-0 WHITE. COMPLETE WITH AMERICAN STANDARD PARADIGM SELECTRONIC FAUCET 702B115.295 BRUSHED NICKEL. VESSEL BATHROOM FAUCET WITH MATCHING POP UP DRAIN SATIN NICKEL. BRASSCRAFT COMMERCIAL RIGID SUPPLIES, ANGLE STOPS AND CHROME PLATED 17 GA L.A. PATTERN CAST BRASS P-TRAP WITH SECURED ESCUTCHEON. P-TRAP AND HOT WAS SUPPLY SHALL BE WRAPPED FOR HANDICAP PROTECTION. PROVIDE TMV SET TO 105" FOR HOT WATER CONNECTION. COLOR TO BE WHITE. 0.5 GPM FLOW RESTRICTER.			
	МВ	MOP BASIN	3"	2"	1/2"	1/2"	FIAT PRODUCTS MOP SINK KIT MODEL NO. MSBIDTG-2424, 24X24 MOLDED STONE MOP BAIN. HOSE AND BRACKET, WALL MOUNTED FAUCET, 3 MOP HANGER BRACKET. WALL GUARD FIAT MSG2424 (12" TALL L SHAPED GUARD) 2 SIDES REQUIRED AT MOP SINK)			
WH GAS WATER HEATER 1" 1" N36-M1 VACUUM RELIEF VALVE. PROVIDE 4" DEEP DRAIN PAN. INSTALL 3, SYSTEM TACO 1/8 HP 6 GPM CAST IRON IN LINE, WET ROTOR HOT WATER		RHEEM MODEL GPDV50-65 50 GALLON, 65 MBH NATURAL GAS. PROVIDE AN ASME RATED TEMP. & PRESS RELIEF VALVE & WATTS 3/4" N36-M1 VACUUM RELIEF VALVE. PROVIDE 4" DEEP DRAIN PAN. INSTALL 3/4" HOT WATER PUMP/TIMER 120 VOLT RE-CIRCULATION SYSTEM TACO 1/8 HP 6 GPM CAST IRON IN LINE, WET ROTOR HOT WATER CIRCULATOR PUMP OR EQUAL. SET TEMPERATURE TO 120°F. INSTALL VENT PER MANUFACTURER INSTALLATION MANUAL. MAINTAIN 10'-0" TO ALL OUTDOOR AIR INTAKES.								
SD	SH	SHOWER TRIM-ACCESSIBLE			1/2"	1/2"	KOHLER 99243-G-BN AWAKEN HANDSHOWER KIT, BRUSHED NICKEL 2.0 GPM AND K-TS74042-4-BN RITE-TEMP® SHOWER VALVE TRIM. MOUNT TO MEET ALL ACCESSIBILITY REQUIREMENTS.			
SH		SHOWER DRAIN	3"	2"			KOHLER CLEARFLO TILE—IN SHOWER DRAIN K—9136. INSTALL SURE SEAL WATERLESS TRAP PRIMER AND DEEP SEAL TRAP.			
	WM	WATER MACHINE	1-1/2	1-1/2	1/2"		ELKAY EZH2O LIV BUILT-IN FILTERED WATER DISPENSER REMOTE CHILLER MODEL LBWDO6. COLOR ASPEN WHITE. PROVIDE AND INSTALL ERF750 - WATERSENTRY PLUS RESIDENTIAL REPLACEMENT FILTER AP99 - ELKAY ACCESS PANEL 14" X 29" X 6" (PROVIDE ONE REPLACEMENT FILTER) COORDINATE WITH G.C. FOR INSTALL OF ACCESS PANEL ADJACENT TO REFRIGERATOR IN WALL TO ACCESS REAR OF MACHINE FOR FUTURE SERVICE. INSTALL TO MEET ALL ACCESSIBILITY REQUIREMENTS			
⊅ □	FD	FLOOR DRAIN	3"	2"			JOSAM 30003-A-55 CAST IRON DRAIN WITH SATIN NIKOLOY STRAINER, CAST IRON FLASHING COLLAR. INSTALL SURE SEAL WATERLESS TRAP PRIMER AND DEEP SEAL TRAP.			
8	WCO	WALL CLEANOUT	PLAN				J.R. SMITH WALL CLEANOUT. FURNISH CHROME, SQUARE ACCESS COVER AND FRAME.			

JOSAM 57000-22 FLOOR CLEANOUT, LEVELEZE COATED CAST IRON BODY WITH ADJUSTABLE HOUSING, SATIN NIKALOY TOP AND INSIDE CAULK

PRECISION PLUMBING PRODUCTS TRAP PRIMER. BRONZE CONSTRUCTION WITH VACUUM PORTS. ADJUSTABLE WITH 1/2" COPPER TYPE L TO

S C A L E : 1/4"=1'-0"

1/2" | 1/2" | WATTS LEAD FREE LFUSG-B THERMOSTATIC MIXING VLAVE. BRASS. SET TO 109°F. INSTALL BELOW ALL HAND SINKS



RETURN AIR PLENUM

THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 ORUL 723.

1. RIGID AND FLEXIBLE DUCTS AND CONNECTORS SHALL CONFORM TO SECTION 603.

BOARD ASSEMBLIES OR WITHIN MATERIALS LISTED AND LABELED FOR SUCH APPLICATION.

2. DUCT COVERINGS, LININGS, TAPE AND CONNECTORS SHALL CONFORM TO SECTIONS 603 AND 604.

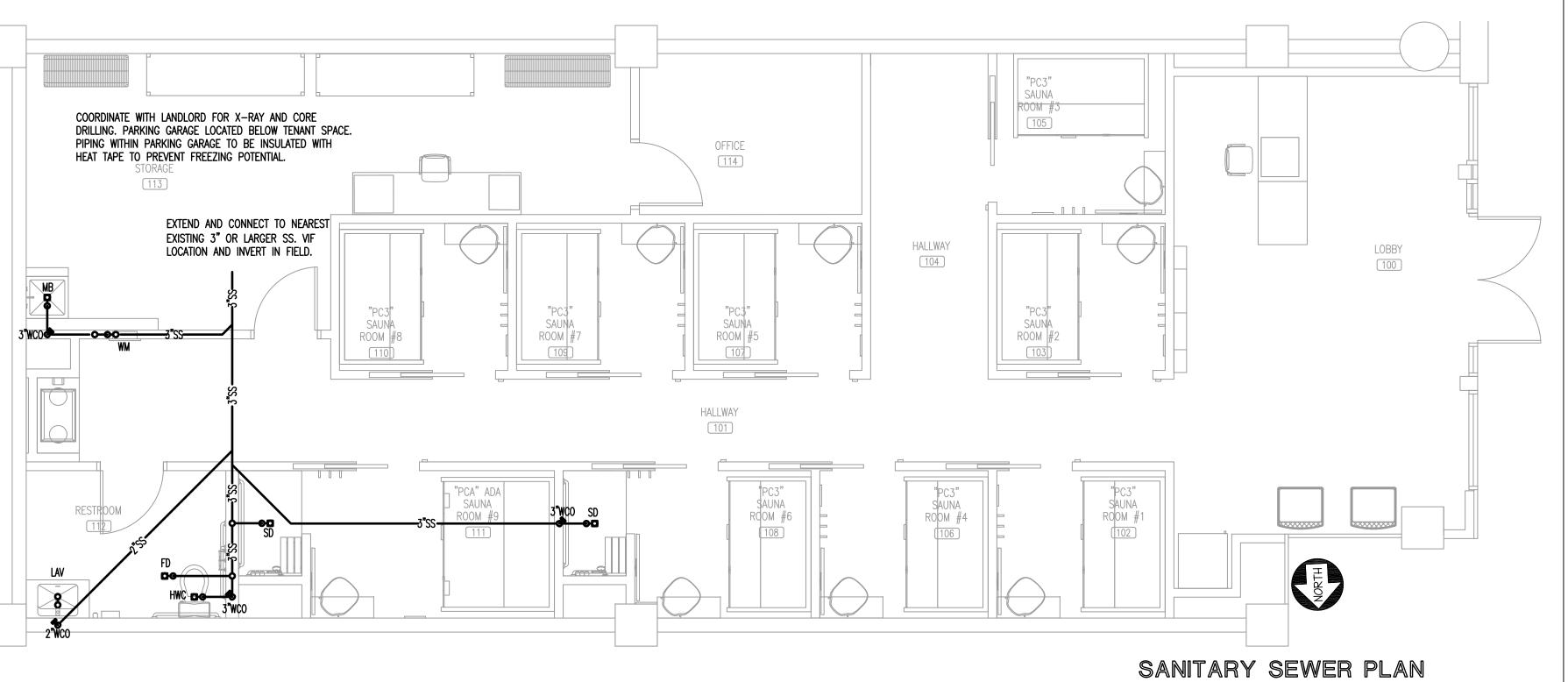
3. THIS SECTION SHALL NOT APPLY TO MATERIALS EXPOSED WITHIN PLENUMS IN ONE— AND TWO—FAMILY DWELLINGS.

602.2.1.1 WIRING. COMBUSTIBLE ELECTRICAL OR ELECTRONIC WIRING METHODS AND MATERIALS, OPTICAL FIBER CABLE, AND

MATERIALS WITHIN PLENUMS. EXCEPT AS REQUIRED BY SECTIONS 602.2.1.1 THROUGH 602.2.1.6, MATERIALS WITHIN PLENUMS SHALL BE

NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE

5. COMBUSTIBLE MATERIALS FULLY ENCLOSED WITHIN CONTINUOUS NONCOMBUSTIBLE RACEWAYS OR ENCLOSURES, APPROVED GYPSUM



Plan

RECEPTOR.

PLAN PLAN J.R. SMITH SERIES HYDROTROL, STAINLESS STEEL CONSTRUCTION.

FC0

 \bigcirc

FLOOR CLEANOUT

TMV THERMOSTATIC MIXING VALVE

WATER HAMMER ARRESTOR

TRAP PRIMER

EXISTING CONDITIONS AND DIMENSIONS
PRIOR TO BID AND REPORT ANY
DISCREPANCIES BACK TO OWNER.
G.C. SHALL COORDINATE ALL SUB
CONTRACTORS AND ENSURE A COMPLETE
FULLY CODE COMPLIANT AND
PROFESSIONALLY FINISHED TENANT SPACE.

ISSUED / REVISIONS:

CONTRACTOR SHALL FIELD VERIFY ALL

rg AND DESIGN PLLC
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ENGINEERING
PO Box 213 (Mailing)
4236 HWY 3630
Annville, KY 40402
FIRM 23179



PERSPIRE SAUNA STUDIO

2450 SOUTH U SUITE D1 DENVER, CO

CHECKED BY: Staff

DRAWN BY: Staff

DATE: SEPTEMBER 12, 2023

SCALE: PER PLAN

PROJECT No.: PSS 2401

SHEET TITLE

PLUMBING PLANS AND ISOMETRIC

SHEET KEY NOTES

PLUMBING LEGEND

DEFINITION

DOMESTIC HOT WATER

DOMESTIC COLD WATER

DOMESTIC SOFT WATER

HOT WATER RETURN

VENT PIPING

GAS PIPING

TEE DOWN

CHECK VALVE

FLOOR DRAIN

WALL HYDRANT

BALL VALVE

BALANCING VALVE

CONDENSATE DRAIN

SECONDARY COND. DRAIN

CLEANOUT

SANITARY WASTE

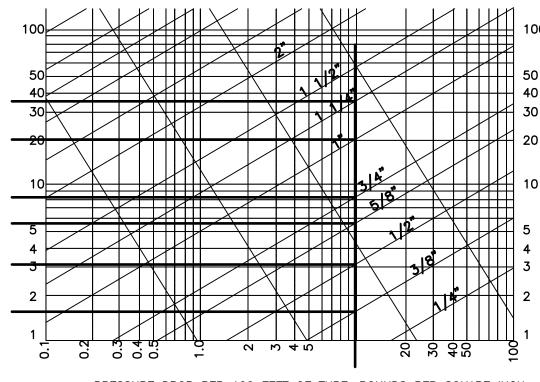
RISER DOWN (ELBOW)

RPZ BACKFLOW PREVENTER

ROOF DRAIN (AREA SERVED)

RISER UP (ELBOW)

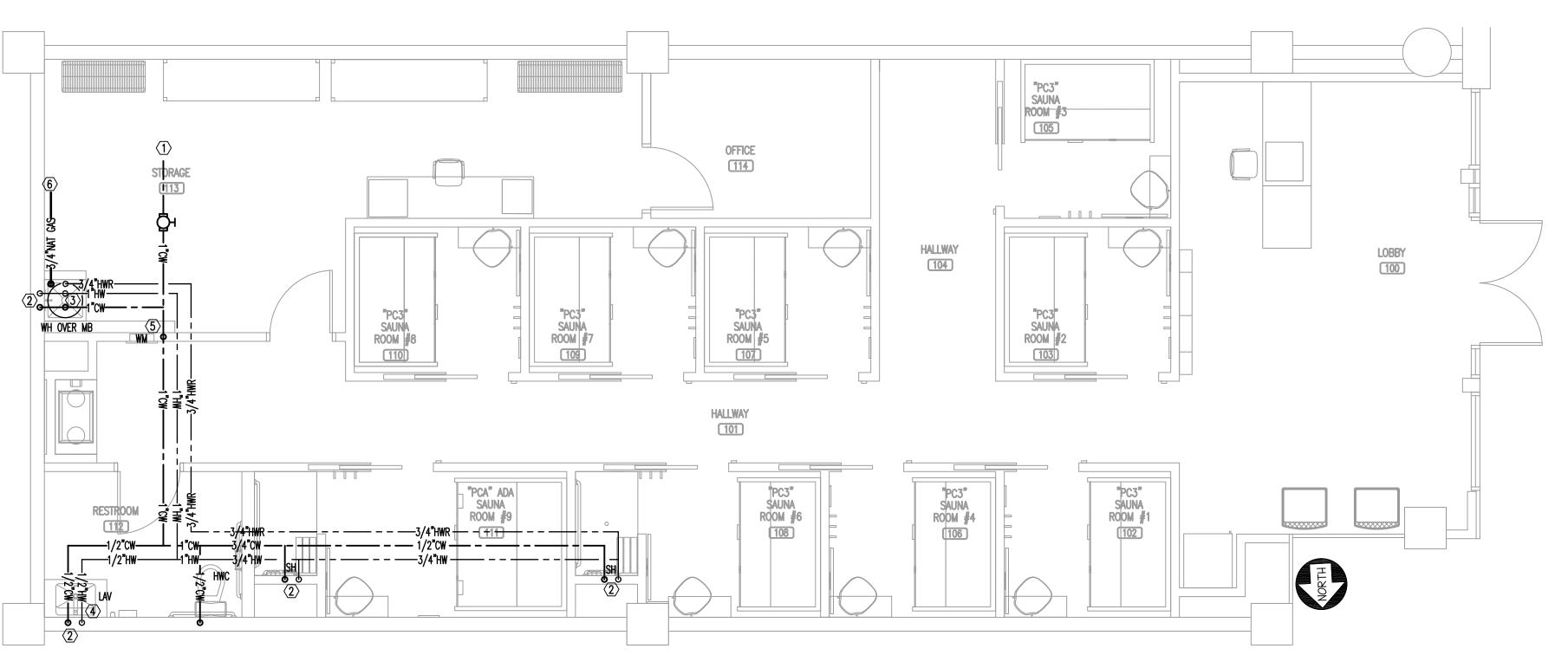
- EXISTING WATER SERVICE TO SPACE. VIF LOCATION AND CONDITION OF EXISTING CONDITIONS WITH LANDLORD REP. INSTALL ALL REQUIRED COMPONENTS NECESSARY FOR A COMPLETE/CODE COMPLIANT INSTALLATION. PROVIDE SHUT OFF AND LABEL CEILING TILE. "MAIN WATER SHUT OFF"
- 2 1/2" HOT AND COLD WATER DOWN WITH 1/2" HOT AND COLD WATER TO FIXTURES, INSTALL WATER HAMMER ARRESTOR ON TOP OF FEED DOWN. $\langle \overline{3} \rangle$ 3/4" HOT AND COLD WATER DOWN TO WATER HEATER.
- 4 WATTS LFUSG-B THERMOSTATIC MIXING VALVE SET TO 109°F BELOW HAND SINK.
- (5) PC. TO INSTALL BOTTLE FILLER PER MANUFACTURER INSTALL MANUAL.
- 6 1/2" 2 PSI NATURAL GAS. EXTEND TO EXISTING NATURAL GAS STUB TO TENANT SPACE. VIF LOCATION. INSTALL REGULATOR AND SHUT OFF AHEAD OF CONNECTION TO WATER HEATER. COORDINATE ROUTING IN FILED WITH LANDLORD REPRESENTATIVE FOR INSTALLATION OF COMBUSTION AND EXHAUST AIR 4"PVC. ENSURE FULLY CODE COMPLIANT NATURAL GAS WATER HEATER INSTALLATION PER MANUFACTURER'S INSTALLATION MANUAL.



BRANCH PIPE SIZING CHART FOR 10 PSI. LOSS

100	100
	50
30	50
	40
30	30
20	20
	20
10	10
58	
	_
	5
	4
3 3 3 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3
	•
	2
	1
0 0 0 0 0 1 2 × 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
'	
PRESSURE DROP PER 100 FEET OF TUBE, POUNDS PER SQUARE INCH	1

SYMBOL OR ABBREVIATION	
—HW	
cw	
—-—SFWS—-—	
—HWR—	
V	
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NAT	
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₹	
4" <u>RD-1</u> 1,650 SF	
FD−	
<u>○</u> 00-	
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− Ø−	
CD	
———SD ———	



WATER SUPPLY CALCULATIONS

 $1 \times 3.0 = 3.0$

 $1 \times 1.0 = 1.0$

 $1 \times 0.5 = 0.5$ $2 \times 3.0 = 6.0$

110 FT

110 FT

26 FT

— 35.00 PSI

10 FT

TOTAL FIXTURE UNITS 13.5

TOTAL DEVELOPED LENGTH 156 FT

_____ 8.00 PSI

WATER CLOSET (FLUSH TANK) _____

LAVATORY_____

1"CW LINE WILL SUPPLY 20 GALLONS PER MINUTE

VERTICAL PIPE LENGTH TO HIGHEST FIXTURE _____

TOTAL PIPE LENGTH _____

13.5 FIXTURE UNITS = 16.7 GALLONS PER MINUTE (G.P.M.)

PIPE LENGTH METER TO LAST FIXTURE ______

FITTING LOSS (20%)

HIGHEST PRESS. REQ'D. AT FIXTURE.

TOTAL OVERALL LOSSES _____

PRESSURE AVAILABLE FOR PIPING _____

SUPPLY PRESSURE (ASSUME)(INSTALL PRV AS REQUIRED)____ 50 PSIG

15 PSI / 156 TDL X 100 = 9.6 PSI MAXIMUM PRESS. DROP ALLOWABLE/100 FT. OF PIPE

WATER MACHINE _____

PIPE LENGTH TAP TO METER _____

BACK FLOW PREVENTER LOSS _____

WATER PIPE SIZING CRITERIA:

PER IPC APPENDIX E. TABLE E201.1

3/4" METER WITH 1" DISTRIBUTION

FRICTION LOSS (PSI):

METER LOSS _____

TDL 150 FEET

50-60 PSI

25 WSFU

FIXTURE NAME

MOP BASIN___

DOMESTIC WATER / NATURAL GAS PLAN S C A L E: 1/4"=1'-0"

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BID AND REPORT ANY DISCREPANCIES BACK TO OWNER. G.C. SHALL COORDINATE ALL SUB CONTRACTORS AND ENSURE A COMPLETE FULLY CODE COMPLIANT AND PROFESSIONALLY FINISHED TENANT SPACE. ISSUED / REVISIONS:



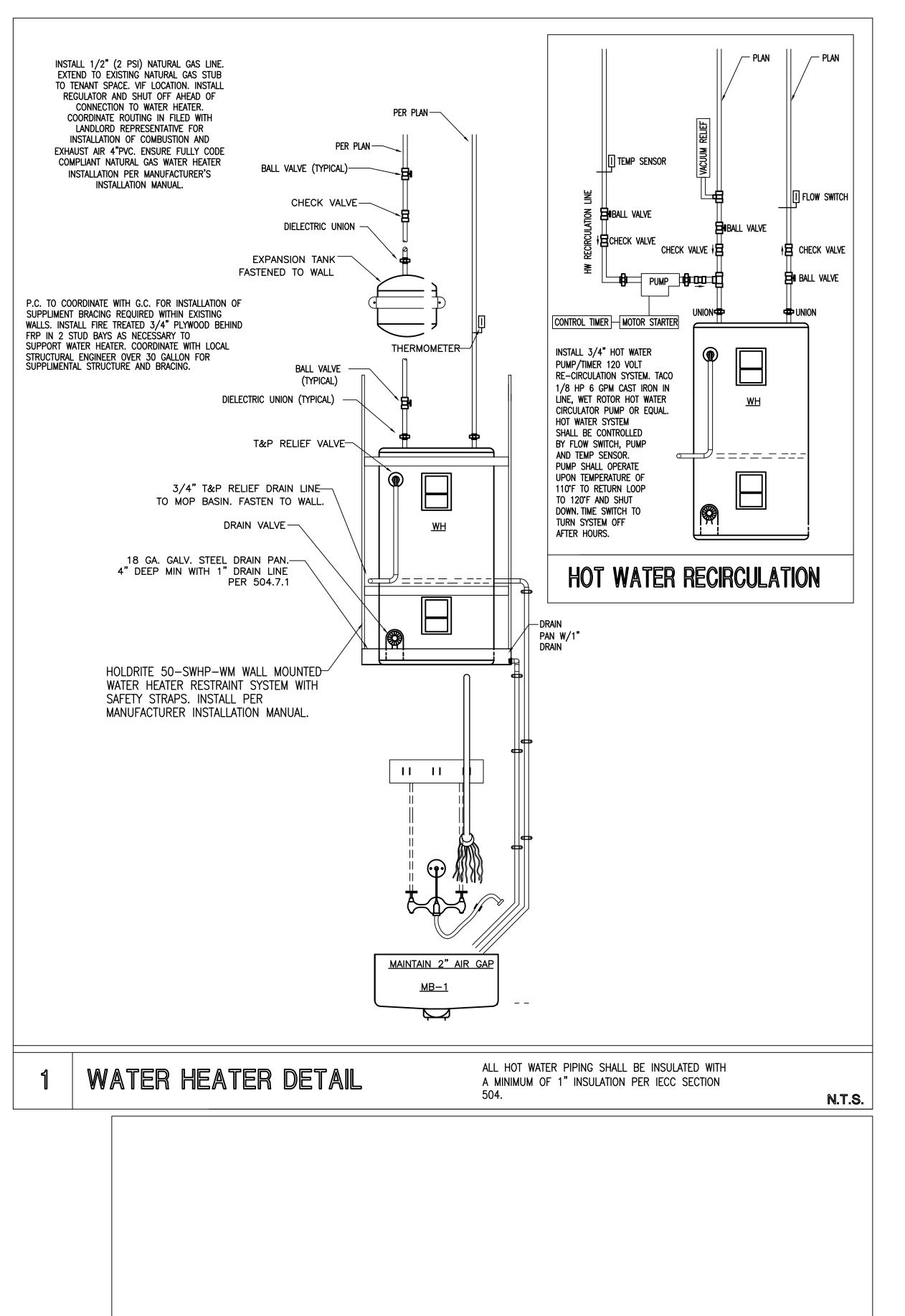
S PER 2450 SOUTH UNIVER SUITE D1 DENVER, CO 80210

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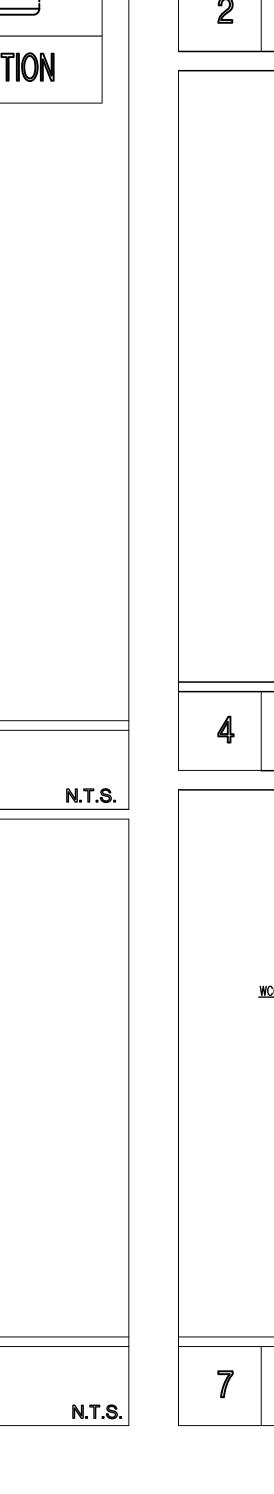
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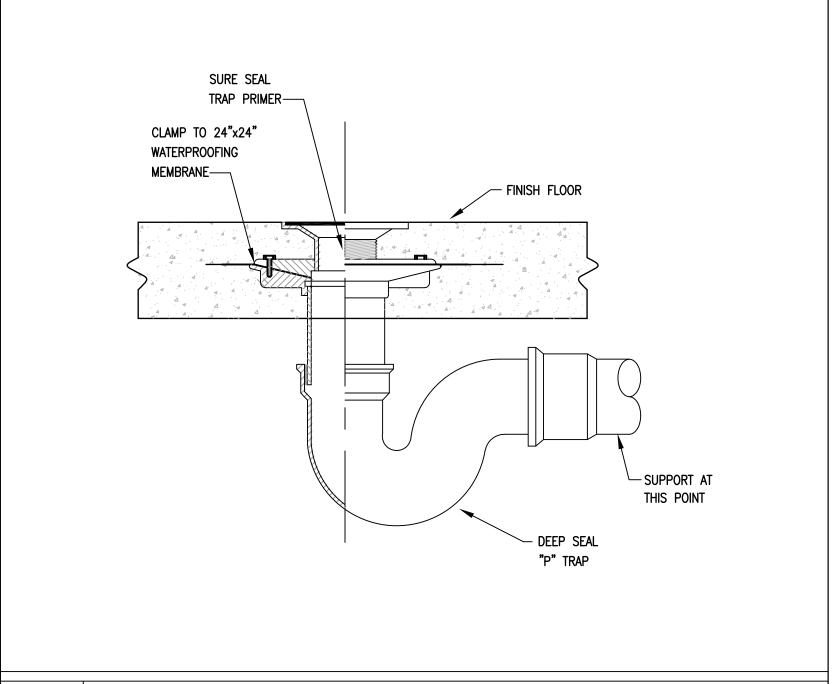
DRAWN BY: Staff SEPTEMBER 12, 2023 DATE:
SCALE: PER PLAN PROJECT No.: PSS 2401

DOMESTIC WATER PLAN



NOT USED





FLOOR DRAIN N.T.S.

STAINLESS STEEL CLAMPING RINGS

BUILT-UP ROOF

IN-SEAM . SEALANT

SEAM FASTENING PLATE WITH HP

- WATER CUT-OFF

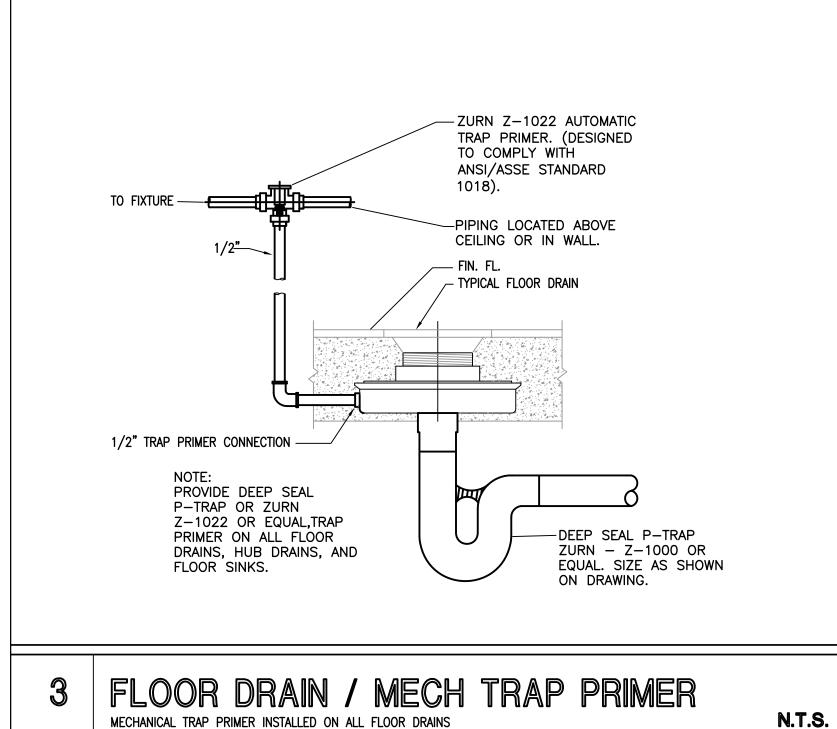
- PRE-MOLDED PIPE

- CURED EPDM MEMBRANE

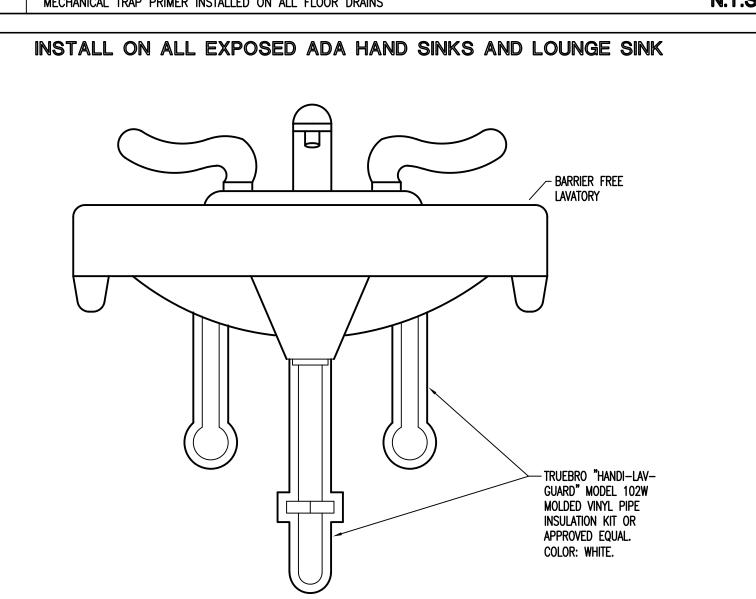
— IN-SEAM SEALANT

LAP SEALANT

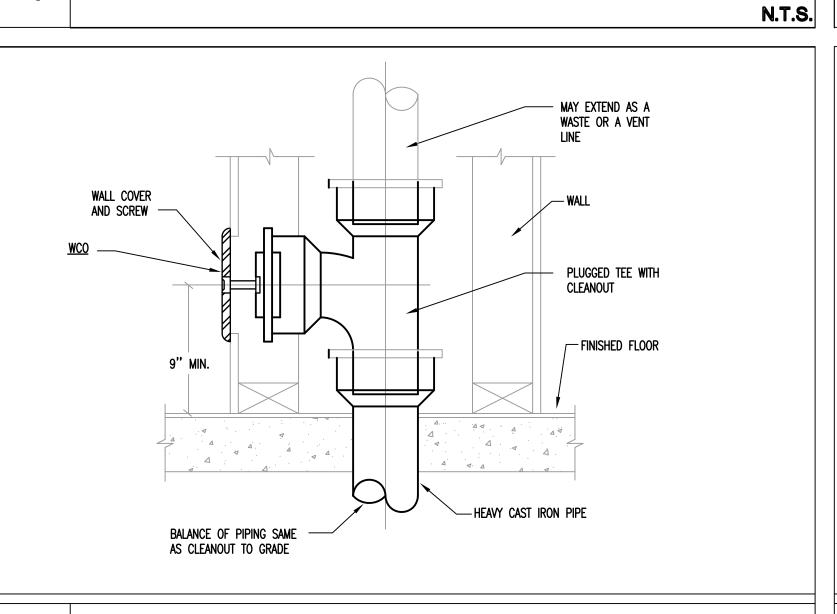
SPLICING CEMENT



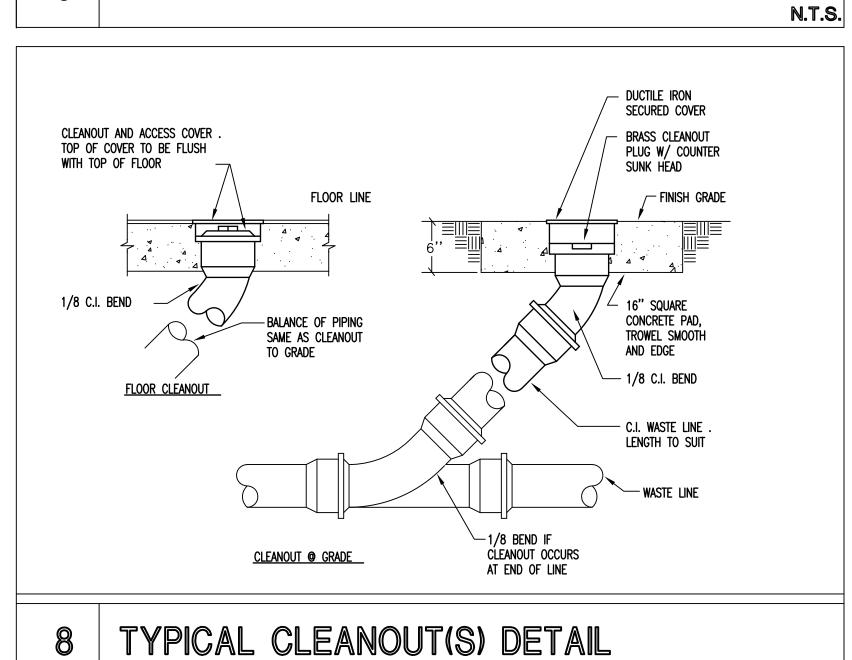
MECHANICAL TRAP PRIMER INSTALLED ON ALL FLOOR DRAINS



VENT THRU ROOF



TYPICAL WALL CLEANOUT DETAIL N.T.S.



ADA PIPE SHROUDING

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BID AND REPORT ANY DISCREPANCIES BACK TO OWNER. G.C. SHALL COORDINATE ALL SUB CONTRACTORS AND ENSURE A COMPLETE FULLY CODE COMPLIANT AND PROFESSIONALLY FINISHED TENANT SPACE. ISSUED / REVISIONS:



SP PER 000

CONTACT 920-757-1486 2450 SOUT SUITE D1 DENVER, (000 000 000 CHECKED BY: Staff DRAWN BY: Staff

PROJECT No.: PSS 2401 SHEET TITLE PLUMBING DETAILS

4.03

N.T.S.

SPECIAL REQUIREMENTS FOR MECHANICAL PLUMBING

15410 PLUMBING PIPING PLUMBING FIXTURES

SECTION 15010 - SPECIAL REQUIREMENTS FOR MECHANICAL PLUMBING PART 1.00 — GENERAL

1.01 REFERENCES:

A. THE GENERAL CONDITIONS AND SPECIAL CONDITIONS ARE A PART OF THIS

B. WHERE ITEMS OF THE GENERAL CONDITIONS AND SPECIAL CONDITIONS ARE REPEATED IN THIS SECTION OF THE SPECIFICATIONS, IT IS MERELY INTENDED TO QUALIFY OR TO CALL ATTENTION TO THEM. IT IS NOT INTENDED THAT ANY OTHER PART OF THE GENERAL CONDITIONS SHALL BE ASSUMED TO BE OMITTED IF NOT

REPEATED HEREIN. C. THIS SECTION APPLIES EQUALLY AND SPECIFICALLY TO ALL CONTRACTORS SUPPLYING LABOR AND/OR EQUIPMENT AND/OR MATERIALS AS REQUIRED UNDER EACH SECTION OF THIS DIVISION.

1.02 INTENT:

- A. IT IS THE INTENTION OF THE SPECIFICATIONS AND DRAWINGS TO CALL FOR FINISHED WORK. TESTED AND READY FOR OPERATION. ANY APPARATUS. APPLIANCE. MATERIAL OR WORK NOT SHOWN ON THE DRAWINGS, BUT MENTIONED IN THE SPECIFICATIONS OR VICE-VERSA, OR ANY INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE AND PERFECT IN ALL RESPECT AND READY FOR OPERATION, EVEN IF NOT PARTIALLY SPECIFIED, SHALL BE FINISHED, DELIVERED AND INSTALLED UNDER THEIR RESPECTIVE DIVISION WITHOUT ADDITIONAL EXPENSE TO
- B. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR THE PROPER INSTALLATION AND OPERATION, SHALL BE INCLUDED IN THE WORK AS THOUGH THEY ARE HEREINAFTER SPECIFIED OR SHOWN.
- C. WORK UNDER EACH SECTION SHALL INCLUDE GIVING WRITTEN NOTICE TO THE OWNER OF ANY MATERIALS OR APPARATUS BELIEVED INADEQUATE OR UNSUITABLE IN VIOLATION OF LAWS, ORDINANCES , RULES OR REGULATIONS OF AUTHORITIES HAVING JURISDICTION, AND NECESSARY ITEMS OF NOTICE, IT IS MUTUALLY AGREED THAT WORK UNDER EACH DIVISION HAS INCLUDED THE COST OF ALL REQUIRED ITEMS FOR THE APPROVED SATISFACTORY FUNCTIONING OF THE ENTIRE SYSTEM WITHOUT EXTRA COMPENSATION.

1.03 DRAWINGS:

- A. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. DO NOT SCALE THE DRAWINGS. CONSULT THE DESIGNER DRAWINGS AND DETAILS EXACT LOCATION OF FIXTURES AND EQUIPMENT, WHERE SAME ARE NOT DEFINITELY LOCATED, OBTAIN THIS INFORMATION FROM THE DESIGNER.
- B. WORK UNDER EACH SECTION SHALL CLOSELY FOLLOW DRAWINGS IN LAYOUT OF WORK AND CHECK DRAWINGS OF OTHER DIVISIONS TO VERIFY SPACES IN WHICH WORK WILL BE INSTALLED. MAINTAIN MAXIMUM HEADROOM AND WHERE SPACE CONDITIONS APPEAR INADEQUATE, ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH INSTALLATIONS.
- C. ENGINEER MAY, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK.
- D. WHERE VARIANCES OCCUR BETWEEN THE DRAWINGS AND SPECIFICATIONS OR WITHIN EITHER OF THE DOCUMENTS, THE ITEM OR ARRANGEMENT OF BETTER QUALITY, OR HIGHER COST, SHALL BE INCLUDED IN THE CONTRACT PRICE. THE ENGINEER SHALL DECIDE ON THE ITEM AND THE MANNER IN WHICH THE WORK SHALL BE INSTALLED.

1.04 SURVEYS AND MEASUREMENTS:

- A. BEFORE SUBMITTING TO HIS BID, THE CONTRACTOR SHALL VISIT THE SITE, AND THE EXISTING BUILDING AND SHALL BECOME THOROUGHLY FAMILIAR WITH ALL CONDITIONS UNDER WHICH HIS WORK WILL BE INSTALLED. AS HE WILL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS HE MAKES OR ANY OMISSIONS OR ERRORS HE MAKES AS A RESULT OF HIS FAILURE TO BECOME FAMILIAR WITH THE SITE, THE EXISTING BUILDING AND THE CONTRACT DOCUMENTS.
- B. THE CONTRACTOR SHALL BASE ALL MEASUREMENTS, BOTH HORIZONTAL AND VERTICAL FROM ESTABLISHED BENCH MARKS. ALL WORK SHALL AGREE WITH THESE ESTABLISHED LINES AND LEVELS. VERIFY ALL MEASUREMENTS AT SITE AND CHECK THE CORRECTNESS OF SAME AS RELATED TO THE WORK. C. SHOULD THE CONTRACTOR DISCOVER ANY DISCREPANCY BETWEEN ACTUAL
- MEASUREMENTS AND THOSE INDICATED, WHICH PREVENTS FOLLOWING GOOD PRACTICE OR THE INTENT OF THE DRAWINGS AND SPECIFICATIONS, HE SHALL NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH HIS WORK UNTIL HE HAS RECEIVED INSTRUCTIONS FROM THE ENGINEER.

1.05 CODES AND STANDARDS:

- A. THE STANDARDS AND CODES LISTED BELOW SHALL APPLY TO ALL MECHANICAL WORK. WHERE STANDARDS OR CODES ARE MENTIONED IN THESE SPECIFICATIONS, THE LATEST EDITION OR REVISION SHALL BE FOLLOWED.
- 1. ANSI A13.1- SCHEME FOR THE IDENTIFICATION OF PIPING SYSTEM 2. ANSI A40.8 - NATIONAL PLUMBING CODES
- 3. ANSI C 1 NATIONAL ELECTRIC CODE (NFPA 70) 4. ANSI C50 - ROTATING ELECTRICAL MACHINERY
- 5. ANSI C51.1— CONSTRUCTION AND GUIDE FOR SELECTION, INSTALLATION F
- 6. ANSI C52.1- MOTORS AND GENERATORS (NEMA MG 1) B. STATE AND LOCAL CODES SHALL APPLY AS LIST ON COVER SHEET.

C. THE FOLLOWING ABBREVIATIONS ARE USED WITHIN THIS SECTION OF THE

- ACPA AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS
- AMCA AIR MOVING AND CONDITIONING ASSOCIATION ANSI — AMERICAN NATIONAL STANDARDS INSTITUTE
- API AMERICAN PETROLEUM INSTITUTE ARI - AIR CONDITIONING AND REFRIGERATION INSTITUTE
- ASHRAE— AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR CONDITIONING
- ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS
- AWS AMERICAN WELDING SOCIETY
- AWWA AMERICAN WATER WORKS ASSOCIATION BOCA - BUILDING OFFICIALS AND CODE ADMINISTRATORS INTERNATIONAL, INC.
- CGA COMPRESSED GAS ASSOCIATION CISPI - CAST IRON SOIL PIPE INSTITUTE
- EJMA EXPANSION JOINT MANUFACTURERS ASSOCIATION
- EPA ENVIRONMENTAL PROTECTION AGENCY FSSC - FEDERAL SPECIFICATION
- IBR INSTITUTE OF BOILER AND RADIATOR MANUFACTURERS IEEE - INSTITUTE OF ELECTRICAL AND ELECTRICAL ENGINEERS
- NEMA NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION
- NFPA NATIONAL FIRE PROTECTION ASSOCIATION
- NOFI NATIONAL OIL FUEL INSTITUTE NSPC - NATIONAL STANDARD PLUMBING CODE
- OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
- PDI PLUMBING AND DRAINAGE INSTITUTE SMACNA - SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL
- ASSOCIATION U.L. - UNDERWRITERS' LABORATORIES

1.06 PERMITS AND FEES:

- A. THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS AND PAY ALL GOVERNMENT SALES TAXES AND FEES WHERE APPLICABLE. AND OTHER COSTS, INCLUDING UTILITY CONNECTIONS OR EXTENSIONS, IN CONNECTION WITH HIS WORK, FILE ALL NECESSARY APPROVALS OF ALL GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION, OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION FOR HIS WORK AND DELIVER A COPY TO THE ENGINEER BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENT FOR THE WORK.
- B. THE CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS, IN ORDER TO COMPLY WITH ALL APPLICABLE LAWS. ORDINANCES RULES AND REGULATIONS. WHETHER OR NOT SHOWN ON DRAWINGS AND/OR SPECIFIED.
- C. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH RULES AND RECOMMENDATIONS OF THE NATIONAL FIRE PROTECTION ASSOCIATION, WITH THE REQUIREMENTS OF THE LOCAL UTILITY COMPANIES. WITH THE RECOMMENDATIONS OF THE INSURING AUTHORITY, AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION.
- 1.07 COORDINATION WITH OTHER DIVISIONS: A. ALL WORK SHALL BE CARRIED OUT IN CONJUNCTION WITH OTHER TRADES AND FULL COOPERATION SHALL BE IN ORDER THAT ALL WORK MAY PROCEED WITH A MINIMUM OF DELAY AND INTERFERENCE. PARTICULAR EMPHASIS PLACED ON TIMELY INSTALLATION OF MAJOR APPARATUS AND FURNISHING OTHER CONTRACTORS, ESPECIALLY THE GENERAL CONTRACTOR, WITH INFORMATION AS TO OPENINGS, CHASES, EQUIPMENT LOCATIONS, PANELS WIRING REQUIRED BY OTHER TRADES
- B. THE CONTRACTOR IS REQUIRED TO EXAMINE ALL OF THE PROJECT DRAWING AND MUTUALLY ARRANGE WORK SO AS TO AVOID INTERFERENCE. DUCTWORK, HEATING PIPES AND DRAINAGE LINES TAKE PRECEDENCE OVER WATER, GAS AND ELECTRICAL
- C. WHERE THE WORK OF THE CONTRACTOR WILL BE INSTALLED IN CLOSE PROXIMITY TO. OR WILL INTERFERE WITH WORK OF OTHER TRADES. HE SHALL ASSIST IN WORKING OUT SPACE CONDITIONS TO MAKE A SATISFACTORY ADJUSTMENT. IF SO DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL PREPARE COMPOSITE WORKING DRAWINGS AND SECTIONS AT A SCALE NOT LESS THAN 3/8" = 1' - 0"CLEARLY SHOWING HOW HIS WORK IS TO BE INSTALLED IN RELATION TO THE WORK OF OTHER TRADES. IF THE CONTRACTOR INSTALLS HIS WORK BEFORE COORDINATING WITH OTHER TRADES, HE SHALL MAKE NECESSARY CHANGES IN HIS WORK TO CORRECT THE CONDITION WITHOUT EXTRA CHARGE. CONTRACTORS SHALL COORDINATE RADIATION COVERS WITH CONVENIENCE OUTLETS TO AVOID CONFLICTS.
- 1.08 APPROVALS: A. THE MATERIALS, WORKMANSHIP, DESIGN AND ARRANGEMENT OF ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
- B. WITHIN THIRTY (30) DAYS AFTER THE ACCEPTANCE OF BIDS, THE MECHANICAL CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL A LIST OF MANUFACTURERS OF EQUIPMENT PROPOSED FOR THE WORK UNDER THE MECHANICAL SECTION. THE INTENT TO USE THE EXACT MAKES SPECIFIED DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF SUBMITTING SUCH A LIST.
- C. WHERE ANY SPECIFIC MATERIAL, PROCESS OR METHOD OF CONSTRUCTION, OR MANUFACTURED ARTICLE IS SPECIFIED BY NAME OR BY REFERENCE TO THE CATALOGUE NUMBER OF A MANUFACTURER, THE SPECIFICATIONS ARE TO BE USED AS A GUIDE AND ARE NOT INTENDED TO TAKE PRECEDENCE OVER THE BASIC DUTY AND PERFORMANCE SPECIFIED WITH THE SPECIFIC CHARACTERISTICS OF THE EQUIPMENT OFFERED FOR APPROVAL. EQUIPMENT CHARACTERISTICS ARE TO BE USED AS MANDATORY REQUIREMENTS WHERE CONTRACTOR PROPOSES TO USE AN APPROVED EQUAL
- D. ALL COMPONENT PARTS OF EACH ITEM OF EQUIPMENT OR DEVICE SHALL BEAR THE MANUFACTURER'S NAMEPLATE, GIVING NAME OF MANUFACTURER, DESCRIPTION, SIZE. TYPE. SERIAL OR MODEL NUMBER. ELECTRICAL CHARACTERISTICS. ETC., IN ORDER TO FACILITATE MAINTENANCE OR REPLACEMENT. THE NAMEPLATE OF SUBCONTRACTOR OR DISTRIBUTOR WILL NOT BE ACCEPTABLE.
- E. IF MATERIAL OR EQUIPMENT IS INSTALLED BEFORE IT IS APPROVED, THE CONTRACTOR SHALL BE LIABLE FOR ITS REMOVAL AND REPLACEMENT AT NO EXTRA CHARGE TO THE OWNER IF, IN THE OPINION OF THE ENGINEER, THE MATERIAL OR EQUIPMENT DOES NOT MEET THE INTENT OF THE DRAWINGS AND SPECIFICATIONS.

1.09 EQUIPMENT DEVIATIONS:

- A. BIDS SHALL BE BASED ON MATERIAL AND EQUIPMENT SPECIFIED. WHERE MORE THAN ONE MANUFACTURER IS NAMED IN THE PLANS OR SPECIFICATIONS, EQUIPMENT OR MATERIALS SHALL BE EQUAL TO THE MODEL OR TYPE SPECIFIED, BUT MAY BE THE PRODUCT OF ANY OF THE MANUFACTURERS LISTED FOR THE PARTICULAR ITEM. IF IT IS DESIRED TO SUBSTITUTE THE PRODUCT OF A MANUFACTURER NOT SPECIFIED A PARTICULAR ITEM, THE MANUFACTURER AND ITEM TO BE SUBSTITUTED SHALL BE NAMED ON THE BID FORM TOGETHER WITH THE ADDITION OR DEDUCTION OF THE BASE BID. BASE BID SHALL BE BASED ON USING MANUFACTURER'S EQUIPMENT AS
- B. IN THESE SPECIFICATIONS AND ON THE ACCOMPANYING DRAWINGS, ONE OR MORE MAKES OF MATERIALS. APPARATUS OR APPLIANCE HAVE BEEN SPECIFIED FOR USE IN THIS INSTALLATION. THIS HAS BEEN DONE FOR CONVENIENCE IN FIXING THE STANDARD OF WORKMANSHIP, FINISH AND DESIGN REQUIRED FOR THIS WORKMANSHIP, FINISH AND DESIGN AND THE GUARANTEED PERFORMANCE OF ANY MATERIALS, APPARATUS OR APPLIANCE WHICH THE CONTRACTOR DESIRES TO SUBSTITUTE FOR THOSE MENTIONED STANDARDS. WHERE NO SPECIFIC MAKE OF MATERIAL, APPARATUS OR APPLIANCE IS MENTIONED, ANY FIRST CLASS PRODUCT MADE BY REPUTABLE MANUFACTURER MAY BE USED, PROVIDING IT CONFORMS TO THE REQUIREMENTS OF THESE SPECIFICATIONS, IN THE OPINION OF AND MEETS THE APPROVAL OF THE ENGINEER. WHERE TWO OR MORE NAMES ARE GIVEN AS EQUALS, THE CONTRACTOR MUST USE ONE OF THE NAMED EQUALS. WHERE ONE NAME ONLY IS USED AND IS FOLLOWED BY THE WORD "OR APPROVED EQUAL" THE CONTRACTOR MUST USE THE ITEM NAMED, BUT HE MAY APPLY FOR SUBSTITUTION THROUGH THE PRESCRIBED MANNER.
- C. WHERE THE CONTRACTOR PROPOSES TO USE AN ITEM OF EQUIPMENT OTHER THAN SPECIFIED OF DETAILED ON THE DRAWINGS WHICH REQUIRES ANY REDESIGN OF THE STRUCTURE. PARTITIONS. FOUNDATIONS WIRING. OR ANY OTHER PART OF THE MECHANICAL, ELECTRICAL OR DESIGNERURAL LAYOUT, ALL SUCH REDESIGN AND ALL NEW DRAWINGS AND DETAILING REQUIRED THEREFORE SHALL WITH THE APPROVAL OF THE ENGINEER, BE PREPARED UNDER WORK OF THE RESPECTIVE SECTION AT NO COST TO THE OWNER.
- D. WHERE SUCH APPROVED DEVIATION REQUIRES A DIFFERENT QUANTITY AND ARRANGEMENT OF DUCTWORK, PIPING, WIRING, CONDUIT AND EQUIPMENT FROM THAT SPECIFIED OR INDICATED ON THE DRAWINGS, WITH THE APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL FURNISH AND INSTALL ANY SUCH DUCTWORK, PIPING, STRUCTURAL SUPPORTS, INSULATION, CONTROLLERS, MOTORS, STARTERS, AND ANY OTHER ADDITIONAL EQUIPMENT REQUIRED BY THE SYSTEM AT NO ADDITIONAL COST TO THE OWNER.

1.10 MANUFACTURER'S IDENTIFICATION:

A. MANUFACTURER'S NAMEPLATE, NAME OR TRADEMARK AND ADDRESS SHALL BE ATTACHED PERMANENTLY TO ALL EQUIPMENT AND MATERIAL FURNISHED UNDER THIS DIVISION. THE NAMEPLATE OF A CONTRACTOR OR DISTRIBUTOR SHALL NOT BE ACCEPTABLE.

1.11 SHOP DRAWINGS:

- A. CONTRACTOR SHALL SUBMIT FOR REVIEW, DETAILED SHOP DRAWINGS OF ALL EQUIPMENT AND ALL MATERIAL REQUIRED TO COMPLETE THE PROJECT. NO MATERIAL OR EQUIPMENT MAY BE DELIVERED TO THE SITE OR INSTALLED UNTIL THE CONTRACTOR HAS IN HIS POSSESSION AN APPROVED SHOP DRAWING FOR THE PARTICULAR MATERIAL OR EQUIPMENT.
- B. SHOP DRAWINGS SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENT OUTLINED IN THE GENERAL CONDITIONS OF THESE SPECIFICATIONS. C. FAILURE OF THE CONTRACTOR TO SUBMIT SHOP DRAWINGS IN AMPLE TIME SHALL
- EXTENSION BY REASON OF SUCH DEFAULT TO BE ALLOWED. D. CATALOGUES, PAMPHLETS OR OTHER DOCUMENTS SUBMITTED TO DESCRIBED ITEMS ON WHICH APPROVAL IS REQUESTED, SHALL BE SPECIFIC AND IDENTIFICATION IN CATALOGUE, PAMPHLET, ETC. OF ITEM SUBMITTED SHALL BE CLEARLY MADE IN INK.

NOT ENTITLE HIM TO AN EXTENSION OF CONTRACT TIME AND NO CLAIM FOR

DATA OF GENERAL NATURE WILL NOT BE ACCEPTED. E. THE CONTRACTOR SHALL FURNISH ALL NECESSARY TEMPLATES, PATTERNS, ETC. FOR INSTALLATION WORK AND FOR THE PURPOSE OF MAKING ADJOINING WORK CONFORM, FURNISH SETTING PLANS AND SHOP DETAILS TO OTHER TRADES AS

- F. APPROVAL RENDERED ON SHOP DRAWINGS SHALL NOT BE CONSIDERED AS A GUARANTEE OF MEASUREMENTS OR BUILDING CONDITIONS. WHERE DRAWINGS ARE APPROVED, APPROVAL DOES NOT MEAN THAT DRAWINGS HAVE BEEN CHECKED IN DETAIL: SAID APPROVAL DOES NOT IN ANY WAY RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY, OR NECESSITY IF FURNISHING MATERIAL OR PERFORMING WORK AS REQUIRED BY THE CONTRACT DRAWINGS AND SPECIFICATIONS. VERIFY AVAILABLE SPACE PRIOR TO SUBMITTING SHOP DRAWINGS.
- G. APPROVAL OF SHOP DRAWINGS SHALL NOT APPLY TO QUANTITY NOR RELIEVE CONTRACTOR OF HIS RESPONSIBILITY TO COMPLY WITH INTENT OF DRAWINGS AND SPECIFICATIONS. APPROVAL OF SHOP DRAWINGS ARE FINAL AND NO FURTHER CHANGES WILL BE ALLOWED WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.

1.12 MATERIAL AND WORKMANSHIP:

- A. ALL MATERIALS AND APPARATUS REQUIRED FOR THE WORK, EXCEPT AS SPECIFIED OTHERWISE. SHALL BE NEW. OF FIRST CLASS QUALITY AND SHALL BE FURNISHED. DELIVERED, CONNECTED AND FINISHED IN EVERY DETAIL AND SHALL BE SO SELECTED AND ARRANGED TO FIT PROPERLY INTO THE BUILDING SPACE. WHERE NO SPECIFIC KIND OF QUALITY OR MATERIAL IS GIVEN, A FIRST-CLASS STANDARD ARTICLE AS ACCEPTED BY THE ENGINEER, SHALL BE FURNISHED.
- B. THE CONTRACTOR SHALL FURNISH THE SERVICES OF AN EXPERIENCED SUPERINTENDENT WHO SHALL BE CONSTANTLY IN CHARGE OF THE INSTALLATION OF THE WORK, TOGETHER WITH ALL SKILLED WORKMEN, FITTERS, METAL WORKERS, WELDERS, HELPERS, AND LABOR REQUIRED TO UNLOAD, TRANSFER, ERECT, CONNECT-UP, ADJUST, START, OPERATE AND TEST EACH SYSTEM.
- C. UNLESS OTHERWISE SPECIFICALLY INDICATED ON THE PLANS OR SPECIFICATIONS ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED WITH THE ACCEPTANCE OF THE ENGINEER IN ACCORDANCE RECOMMENDATIONS OF THE MANUFACTURER. THIS INCLUDES THE PERFORMANCE OF SUCH TESTS AS THE MANUFACTURER RECOMMENDS.

1.13 PROTECTION:

- A. WORK UNDER THIS SECTION SHALL INCLUDE PROTECTING THE WORK AND MATERIALS OF ALL OTHER SECTIONS FROM DAMAGE BY WORK OR WORKMEN, AND SHALL INCLUDE MAKING GOOD ALL DAMAGE US CAUSED.
- B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WORK AND EQUIPMENT UNTIL FINALLY INSPECTED, TESTED AND ACCEPTED; PROTECT WORK AGAINST THEFT. INJURY OR DAMAGE: AND CAREFULLY STORE MATERIAL AND EQUIPMENT RECEIVED ON SITE WHICH ARE NOT IMMEDIATELY INSTALLED. CLOSE OPEN ENDS OF WORK WITH TEMPORARY COVERS OR PLUGS DURING CONSTRUCTION TO PREVENT ENTRY OF OBSTRUCTING MATERIAL.
- C. WORK UNDER THIS SECTION, INCLUDES RECEIVING, UNLOADING, UNCRATING, STORING. PROTECTING. SETTING IN PLACE AND CONNECTING UP COMPLETELY OF EQUIPMENT SUPPLIED UNDER THIS SECTION. WORK UNDER THIS SECTION SHALL ALSO INCLUDE EXERCISING SPECIAL CARE IN HANDLING AND PROTECTING EQUIPMENT AND FIXTURES AND SHALL INCLUDE THE COST OF REPLACING ANY OF THE ABOVE EQUIPMENT AND FIXTURES WHICH MISSING OR DAMAGED BY REASON OF MISHANDLING OR FAILURE TO PROTECT ON THE PART OF THE CONTRACTOR.

1.14 SLEEVES, INSERTS AND ANCHOR BOLTS:

A. THE CONTRACTOR SHALL PROVIDE, SET IN PLACE AND BE HELD RESPONSIBLE FOR THE LOCATION OF ALL SLEEVES, INSERTS, AND ANCHOR BOLTS REQUIRED FOR THEIR WORK. IN THE EVENT THAT FAILURE TO DO SO REQUIRES CUTTING AND PATCHING OF FINISHED WORK, IT SHALL BE DONE AT THE CONTRACTOR'S EXPENSE. B. ALL PIPES AND CONDUITS PASSING THROUGH FLOORS, WALLS, OR PARTITIONS, SHALL BE PROVIDED WITH SLEEVES HAVING AN INTERNAL DIAMETER 1 INCH LARGER

THAN THE OUTSIDE DIAMETER OF THE PIPE, CONDUIT OR INSULATION, ENCLOSING

- C. SLEEVES THROUGH OUTSIDE WALLS SHALL BE CAST IRON SLEEVES WITH IMMEDIATE INTEGRAL FLANGE. SLEEVES SHALL BE SET WITH ENDS FLUSH WITH EACH FACE OF WALL. THE SPACE BETWEEN SLEEVE AND PIPE SHALL BE PACKED WITH OAKUM TO WITH TWO (2) INCHES OF EACH FACE OF WALL. THE REMAINING SPACE
- SHALL BE PACKED AND MADE WATERTIGHT WITH A WATERPROOF COMPOUND. D. SLEEVES THROUGH CONCRETE FLOORS OR INTERIOR MASONRY WALLS SHALL BE SCHEDULE 40 BLACK STEEL PIPE, SST FLUSH WITH FINISHED WALL OR CEILING SURFACES, BUT EXTENDING TWO (2) INCHES ABOVE FINISHED FLOORS.
- E. SLEEVES THROUGH INTERIOR PARTITIONS SHALL BE 22 GAUGE GALVANIZED SHEET STEEL, SET FLUSH WITH FINISHED SURFACES OF PARTITIONS.
- F. INSERTS SHALL BE INDIVIDUAL OR STRIP TYPE OR PRESSED STEEL CONSTRUCTION WITH ACCOMMODATION FOR REMOVAL NUTS AND THREADED RODS UP TO 3/4" DIAMETER. PERMITTING LATERAL ADJUSTMENT. INDIVIDUAL INSERTS SHALL HAVE AN OPENING AT THE TOP TO ALLOW REINFORCING RODS UP TO 1/2" DIAMETER TO BE PASSED THROUGH THE INSERT BODY. STRIP INSERTS SHALL HAVE ATTACHED RODS HAVING HOOKED ENDS TO ALLOW FASTENING TO REINFORCING RODS. INSERTS SHALL BE AS MANUFACTURED BY CARPENTER AND PATTERSON, INC., GRINNEL CO., INC. OR APPROVED EQUAL.

1.15 NOT USED

1.33 RECORD DRAWINGS:

A. MAINTAIN AT THE JOB SITE A RECORD SET OF MECHANICAL DRAWINGS ON WHICH CHANGES IN LOCATION OF EQUIPMENT, PIPING, DUCTS, VALVES, CLEANOUTS, PANELS AND MAJOR CONDUITS SHALL BE RECORDED THESE SHALL BE CLEARLY MARKED ON A CLEAN SET OF SEPIA AT THE COMPLETION OF WORK AND TURN OVER TO THE FNGINFFR.

END OF SECTION 15010

DIVISION 15 - MECHANICAL PLUMBING SECTION 15400 - PLUMBING

- PART 1.00 GENERAL PROVISION 1.01 THE CONTRACTOR FOR WORK UNDER THIS SECTION IF REFERRED TO THE:
- CONTRACT DRAWINGS, GENERAL CONDITIONS, CONTRACT SPECIFICATIONS, ALL OF WHICH ARE HEREBY MADE A PART OF THIS SECTION.
- 1.02 THE CONTRACTOR'S PARTICULAR ATTENTION IS DIRECTED TO THE "GENERAL: NOTES", AND THE REQUIREMENT TO STRICTLY COMPLY WITH ALL THE PROVISIONS OF

1.03 WORK INCLUDED:

- A. PROVIDE ALL LABOR. MATERIALS. EQUIPMENT. SERVICES. ETC., NECESSARY OR REQUIRED FOR THE WORK OF THIS SECTION, AS INDICATED ON THE DRAWINGS, HEREIN SPECIFIED, AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. ITEMS OF WORK SHALL CONSIST GENERALLY OF, BUT NOT BE LIMITED TO THE FOLLOWING:
- 1. SANITARY PIPING ABOVE AND BELOW GRADE.
- 2. SANITARY VENT PIPING. 3. DOMESTIC HOT AND COLD WATER PIPING.
- 4. NATURAL GAS PIPING (IF REQUIRED).
- 5. ALL VALVES, FITTINGS AND DEVICES ASSOCIATED WITH PIPING SYSTEMS. 6. PIPE INSULATION.
- 7. WATER HEATER
- 8. BACKFLOW PREVENTER.
- 9. PLUMBING FIXTURES AND FAUCETS. 10. STOP VALVES.
- 11. FLOOR DRAINS. 12. ROOF DRAINS (IF REQUIRED)
- 13. DOMESTIC WATER SERVICE. 14. CONNECTIONS TO EQUIPMENT FURNISHED BY OTHERS.
- 15. CONDENSATE DRAINS. 16. INDIRECT WASTE DRAINS.

19. NOT USED.

INSTALLATION.

- 17. TESTING. 18. FURNISHING AND SETTING OF ALL SLEEVES THROUGH THE FLOORS, ROOF AND WALL, WHERE REQUIRED INCLUDING WATERPROOFING AND FIREPROOF SEALING AND CAP FLASHING.
- 20. HARDWARE, SUCH AS INSERTS, BOLTS, ETC., ASSOCIATED WITH CONCRETE PADS. 21. CUTTING ASSOCIATED WITH PLUMBING. 22. PRIME PAINTING, WHERE REQUIRED FOR PLUMBING EQUIPMENT AND

- 1.04 RELATED WORK OF OTHER SECTIONS:
- A. THE CONTRACTOR WILL BE REQUIRED TO COORDINATE THE RELATED WORK SECTIONS WITH THE WORK OF THIS SECTION AND BE RESPONSIBLE FOR THE TIMELY AND EXPEDITIOUS PERFORMANCE OF SAME. RELATED WORK SHALL INCLUDE BUT IS NOT NECESSARILY LIMITED TO THE FOLLOWING:
- 1. FINISHED PAINTING EXCEPT AS NOTED. 2. ELECTRICAL POWER WIRING, AND SETTING OF STARTERS.
- 3. GAS VENTS BY MECHANICAL CONTRACTOR.
- 1.05 VERIFYING CONDITIONS: A. EXAMINE ALL DRAWINGS COVERING THE WORK OF THIS SECTION AND REFER TO
- ALL OTHER DRAWINGS, INCLUDING DESIGNERURAL, MECHANICAL AND ELECTRICAL DRAWINGS, WHICH MAY AFFECT THE WORK OF THE SECTION OR REQUIRE COORDINATING WITH SAME. B. REPORT IN WRITING TO THE DESIGNER ANY AND ALL CONDITIONS WHICH MAY
- INTERFERE OR OTHERWISE AFFECT OR PREVENT THE PROPER EXECUTION AND COMPLETION OF THE WORK.

1.06 SUBMITTALS:

- A. SHOP DRAWINGS: 1. PRIOR TO PURCHASING ANY EQUIPMENT OR MATERIALS, A LIST OF THEIR MANUFACTURERS SHALL BE SUBMITTED FOR APPROVAL. 2. PRIOR TO ASSEMBLING OR INSTALLING THE WORK, THE FOLLOWING SHALL BE
- SUBMITTED FOR APPROVAL a. PLUMBING FIXTURES & TRIM.
- b. PIPE INSULATION.
- c. FLOOR DRAINS
- d. GAS VENT MATERIALS. e. FLOOR SINKS f. CLEANOUTS.
- 3. DOCUMENTS WILL NOT BE ACCEPTED FOR APPROVAL UNLESS: a. FIVE COPIES OF EACH ARE SUBMITTED. b. ALL REQUIRED CERTIFICATES ARE SUBMITTED WITH APPROVAL.

c. ALL SUBMITTALS CLEARLY MARKED. 1.08 FEES, PERMITS AND CERTIFICATES:

- A. ALL FEES, PERMITS, TAXES OR CERTIFICATES REQUIRED BY GOVERNING BODIES OR ANY OTHER AGENCY AFFECTING THE WORK AS SPECIFIED HEREIN, OR REQUIRED FOR THE CERTIFICATE OF OCCUPANCY. SHALL BE OBTAINED AND PAID FOR BY THIS CONTRACTOR AS PART OF THE BASIC CONTRACT. 1.09 REMOVAL OF DEBRIS:
- A. THIS CONTRACTOR SHALL REMOVE FROM THE BUILDING ALL SURPLUS MATERIALS AND ALL DEBRIS CREATED BY HIM AND SHALL LEAVE THE WORK AREA IN A CLEAN

1.10 CUTTING AND PATCHING:

- A. CUTTING AND DRILLING: CONTRACTOR SHALL DO ALL CUTTING AND DRILLING OF WALLS, PARTITIONS, CEILING, FLOORS, ETC., AS NECESSARY FOR INSTALLATION OF THE NEW WORK, INCLUDING CUTTING OF HOLES AND OTHER OPENINGS FOR NEW WORK. CUTTING SHALL BE PERFORMED BY HAND OR SMALL POWER TOOLS; HOLES AND SLOTS CUT NEAT AND TO SIZE REQUIRED, WITH MINIMUM DISTURBANCE OF ADJACENT WORK: CUT HOLES IN CONCRETE SLABS FOR PIPES WITH CORE DRILLS OF PROPER SIZES. WHERE HOLES ARE CUT IN FLOORS, THE UNDERSIDE SHALL BE DUSTPROOFED TO CATCH ANY DEBRIS AND DUST WHICH MAY RESULT FROM THESE OPERATIONS AND TO PROTECT PERSONS FROM DAMAGES OR INJURIES. OPENINGS SHALL BE COVERED TEMPORARILY WHEN NOT IN USE AND PATCHED AS SOON AS WORK IS INSTALLED.
- 1. SURFACES AFFECTED BY PATCHING AND REPAIRING WORK SHALL BE RESTORED TO MATCH EXISTING ADJACENT SURFACES. WHERE WATERPROOF FLOORS ARE CUT, THIS CONTRACTOR SHALL PATCH AND REPAIR FLOORS IN SUCH A MANNER AS TO RESTORE THE ORIGINAL WATERPROOF CONDITION, AND AS DIRECTED BY THE
- C. RE-EXAMINATION AND COVERING UP OF WORK:
- 1. RE-EXAMINATION OF QUESTIONED WORK MAY BE ORDERED BY THE DESIGNER, AND IF SO ORDERED, SUCH PART OF THE WORK MUST BE UNCOVERED BY THE CONTRACTOR. IF SUCH PART OF THE WORK BE FOUND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE OWNER SHALL PAY THE COST OF RE-EXAMINATION AND REPLACEMENT IF SUCH PART OF THE WORK BE FOUND NOT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PAY SUCH COST AND ALSO THE COST OF RESTORING THE WORK OF ANY OTHER CONTRACTOR DAMAGED OR REMOVED. IF ANY PART OF THE WORK OF THE CONTRACTOR OR OF HIS SUBCONTRACTORS BE COVERED UP BY THE DESIGNER WITHOUT APPROVAL OR CONSENT OF THE ENGINEER. SUCH WORK MUST, UPON REQUEST OF THE DESIGNER BE UNCOVERED AND RESTORED TO THE SATISFACTION OF THE ENGINEER AT THE

EXPENSE OF THE CONTRACTOR. 1.11 VISITING THE PREMISES:

A. THIS CONTRACTOR, BEFORE SUBMITTING HIS BID ON THE WORK, MUST VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL VISIBLE EXISTING CONDITIONS. AS A RESULT OF HAVING VISITED PREMISES, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE WORK AS IT RELATES TO SUCH VISIBLE EXISTING CONDITIONS.

END OF SECTION 15400

DIVISION 15 - MECHANICAL / PLUMBING

SECTION 15410 - PLUMBING PIPING

PART 1.00 - GENERAL 1.01 RELATED DOCUMENTS:

- A. THIS SECTION COORDINATES WITH AND IS COMPLEMENTARY TO THE GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS AND THE GENERAL REQUIREMENTS. WHEREVER APPLICABLE TO MECHANICAL WORK. B. SECTION 15010 - SPECIAL REQUIREMENTS FOR MECHANICAL WORK.
- 1.02 DESCRIPTION OF WORK A. THE WORK INCLUDES THE PROVIDING OF ALL LABOR, MATERIALS, EQUIPMENT, ACCESSORIES, SERVICES AND TESTS NECESSARY TO COMPLETE AND MAKE READY FOR OPERATION BY THE OWNER; PLUMBING PIPING IN ACCORDANCE WITH DRAWINGS

AND SPECIFICATIONS. 1.03 QUALITY ASSURANCE:

- A. MANUFACTURERS: FIRMS REGULARLY ENGAGED IN THE MANUFACTURER OF EQUIPMENT OF THE TYPES AND CAPACITIES REQUIRED, WHOSE PRODUCTS HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR NOT LESS THAN 5 YEARS. B. THE EQUIPMENT SHALL BE DESIGNED, ASSEMBLED AND TESTED IN ACCORDANCE
- AND LABELED BY UNDERWRITERS LABORATORIES. C. PROVIDE EQUIPMENT PRODUCED BY A MANUFACTURER LISTED AS AN APPROVED MANUFACTURER IN THIS SECTION OR ON THE DRAWING SCHEDULES. D. PROVIDE EQUIPMENT WHOSE PERFORMANCE UNDER SPECIFIED CONDITION, IS

WITH APPLICABLE STANDARDS AS INDICATED IN SECTION 15010 AND SHALL BE LISTED

CERTIFIED BY THE MANUFACTURER. 1.04 GUARANTEE:

A. REFER TO SECTION 15010 - SPECIAL REQUIREMENTS FOR MECHANICAL WORK. PART 2.00 - PRODUCTS

2.01 GENERAL:

APPROVAL BY THE DESIGNER.

- A. ALL PIPE SHALL BE NEW, FREE FROM SCALE OR RUST, AND OF THE MATERIAL AND WEIGHT SPECIFIED UNDER THE VARIOUS SERVICES. EACH LENGTH OF PIPE SHALL BE PROPERLY MARKED AT THE MILL FOR PROPER IDENTIFICATION WITH NAME OR SYMBOL OF MANUFACTURER.
- 2.02 SANITARY & STORM DRAINAGE: A. ABOVE GROUND SANITARY WASTE, VENT AND ROOF DRAIN PIPING SHALL SERVICE WEIGHT CAST IRON, NO-HUB TYPE. UNDERGROUND SANITARY AND DRAIN PIPING EXTRA HEAVY SHALL BE CAST IRON HUB AND SPIGOT TYPE WITH NEOPRENE JOINTS
- C. PROVIDE: TAP IN FLOOR DRAIN TRAPS TO RECEIVER TRAP PRIMER DISCHARGE. D. ALL VENT PENETRATIONS THROUGH BUILDING ROOF SHALL BE MADE WATERTIGHT BY THE USE OF PROPER FLASHING MATERIALS. SUBMIT FLASHING DETAILS FOR

B. CLEANOUTS FOR SANITARY AND STORM DRAINAGE SYSTEMS SHALL BE LOCATED IN

ACCORDANCE WITH THE PLUMBING CODE REFERENCED IN PARAGRAPH 1.05 OF

E. CONTRACTOR MAY SUBMIT DEDUCT ALTERNATE FOR INSTALLATION OF SANITARY WASTE PIPING, ONLY, IN SCHEDULE 40 PVC, FOR BELOW SLAB AND ABOVE SLAB. TO CEILING HEIGHT ONLY.

"NO PVC PIPING SHALL BE ALLOWED IN RETURN AIR PLENUM"

2.03 DOMESTIC WATER:

- A. DOMESTIC COLD AND HOT WATER PIPING SHALL BE TYPE "L" COPPER FITTINGS SHALL BE WROUGHT COPPER, 95%-5% ANTIMONY/TIN SOLDER SHALL BE USED. B. ALL POTABLE WATER PIPING SHALL BE DISINFECTED IN ACCORDANCE WITH LOCAL
- PLUMBING CODE INDICATED IN PARAGRAPH 1.05 OF SECTION 15010 AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL HEALTH DEPARTMENT. C. PROVIDE STOP VALVES FOR ALL DOMESTIC WATER CONNECTIONS TO FIXTURES
- EXCEPT WHERE INTEGRAL STOPS ARE PROVIDED, OR GATE VALVES ARE INDICATED ON THE DRAWINGS.
- D. ALL HOSE BIBS AND HYDRANTS SHALL BE PROVIDED WITH APPROVED VACUUM
- E. PROVIDE CHROME PLATED, BRASS ANGLED STOP VALVES FOR ALL LAVATORIES, F. DISCHARGE OF ALL RELIEF VALVES SHALL BE PIPED TO WITHIN 6" OF THE FLOOR TO

2.04 NATURAL GAS:

PREVENT ACCIDENTAL SCALDING.

- A. COORDINATE THE LOCATION OF GAS METER (S) WITH THE LOCAL GAS COMPANY. B. GAS SYSTEM SHALL BE SCHEDULE 40 BLACK STEEL WITH MALLEABLE IRON
- FITTINGS. VALVE SHALL BE LUBRICATED PLUG TYPE, SIMILAR TO CRANE #250. . Provisions shall be made for expansion and contraction of GAS Piping D. PIPING SHALL BE SLOPED NOT LESS THAN 1/4 INCH IN 15 FEFT. HORIZONTAL LINES SHALL SLOPE UPWARD TO RISERS AND FROM RISERS TO THE METER, OR SERVICE REGULATOR OR TO THE EQUIPMENT. DRIPS SHALL BE PROVIDED AT SUCH POINTS TO ACT AS STORAGE FOR CONDENSATE. DRIPS SHALL BE ACCESSIBLE AND SHALL NOT
- BE LOCATED WHERE THE CONDENSATE IS LIKELY TO FREEZE. E. ALL BRANCH CONNECTIONS SHALL BE MADE ON THE TOP OR SIDE OF HORIZONTAL
- F. GAS PIPING SHALL NOT BE RUN IN OR THROUGH SUPPLY AIR DUCTS, CLOTHES
- CHUTES, CHIMNEYS, VENTS, DUMBWAITERS, OR ELEVATOR SHAFTS. G. VALVES, UNIONS OR RUNNING THREAD SHALL NOT BE LOCATED IN ANY AIR PLENUM.

2.05 CONDENSATE DRAINS & INDIRECT WASTES:

- A. CONDENSATE DRAINAGE AND INDIRECT WASTE PIPING SHALL BE TYPE "L" COPPER WITH 95%-5% ANTIMONY/TIN SWEAT JOINTS. 2.06 PIPE HANGERS AND SUPPORTS:
- A. PROVIDE NECESSARY STRUCTURAL MEMBERS, HANGERS AND SUPPORTS OF APPROVED DESIGN TO KEEP PIPING IN PROPER ALIGNMENT AND PREVENT TRANSMISSION OF INJURIOUS THRUSTS AND VIBRATIONS. IN ALL CASES WHERE HANGERS, BRACKETS, ETC., ARE SUPPORTED FROM METAL DECKING AND/OR CONCRETE CONSTRUCTION, CARE SHALL BE TAKEN NOT TO WEAKEN DECKING AND/OR CONCRETE OR PENETRATE WATERPROOFING. ALL HANGERS AND SUPPORTS SHALL BE CAPABLE OF SCREW ADJUSTMENT AFTER PIPING IS ERECTED. HANGERS SUPPORTING PIPING EXPANDING INTO LOOPS, BENDS AND OFFSETS SHALL BE SECURED TO THE BUILDING STRUCTURE IN SUCH A MANNER THAT HORIZONTAL ADJUSTMENT PERPENDICULAR TO THE RUN OF PIPING SUPPORTED MAY BE MADE TO
- ACCOMMODATE DISPLACEMENT DUE TO EXPANSION. B. BEAM CLAMPS — HANGERS SUPPORTED FROM FLOOR STEEL SHALL BE APPROVED SMALLER SHALL BE C & P FIG.148 ADJUSTABLE BEAM CLAMPS. FOR PIPING 2 ½ INCHES BEAM CLAMPS. I BEAM CLAMPS FOR HANGERS SUPPORTING PIPE 2 INCHES AND AND LARGER, I BEAM CLAMPS SHALL BE WROUGHT STEEL. C & P FIG. NO. 268 OR
- C. WHERE PIPING IS RUN NEAR THE FLOOR AND NOT HUNG FROM THE CEILING CONSTRUCTION BUT IS SUPPORTED FROM THE FLOOR, SUCH SUPPORTS SHALL BE OF PIPE STANDARDS WITH BASE FLANGE AND ADJUSTABLE TOP YOKE SIMILAR TO F & S
- D. ALL VERTICAL PIPING SHALL BE ANCHORED BY MEANS OF HEAVY STEEL CLAMPS SECURELY BOLTED OR WELDED TO THE PIPING, AND WITH END EXTENSION BEARING

E. ALL VERTICAL PIPING SHALL BE GUIDED AT EACH FLOOR BY USE OF CLAMPS

FIG. NO. 907 OR EQUAL.

GUIDES. SADDLES SHALL BE FASTENED TO PIPE OR INSULATION. F. VERTICAL RUNS OF PIPE NOT OVER 15 FEET LONG SHALL BE SUPPORTED BY HANGERS PLACED NOT OVER ONE FOOT FROM THE ELBOWS ON THE CONNECTING

FASTENED TO BUILDING STRUCTURE. PROVIDE 360 DEGREES PROTECTIVE SADDLE AT

IN SIZE, SHALL BE SUPPORTED ON HEAVY STEEL CLAMPS. CLAMPS SHALL BE BOLTED

NOT OVER 6 INCHES IN SIZE OR NOT OVER 30 FEET LONG AND NOT OVER 12 INCHES G. VERTICAL RUNS OF PIPE OVER-15 FEET LONG BUT NOT OVER 60 FEET LONG AND

TIGHTLY AROUND THE PIPES AND SHALL REST SECURELY ON THE BUILDING

STRUCTURE WITHOUT BLOCKING. CLAMPS SHALL BE WELDED TO THE PIPES OR PLACED BELOW COUPLINGS. CLAMPS SHALL BE TYPE 8, FEDERAL SPECIFICATION

WW-H-171C, UNLESS OTHER TYPES ARE APPROVED.

HANGER	RODS SHALL	BE OF THE FOLLOWING	DIAMETERS AN	ND SPACING:	
<u>PIPE SI</u>	ZE	ROD DIAMETER			MAX. SPACING
1-1/4	" AND BELOW	3/8 "			7'-0"
1-1/2	'AND 2"	3/8 "		9'-0"	COPPER (8'-0")
2-1/2	" AND 3	1/2"		11'-0"	(COPPER 9'-0")

1/2"

14'-0"

- H. PIPING SHALL NOT BE HUNG FROM OTHER PIPING, DUCTS, CONDUITS OR VERTICAL EXPANSION SHIELDS WILL BE PERMITTED. HANGER RODS SHALL NOT PIERCE DUCTS. I. WHERE ADDITIONAL STEEL IS REQUIRED FOR THE SUPPORT OF HANGERS, FURNISH AND INSTALL SAME SUBJECT TO THE APPROVAL OF THE DESIGNER. J. ALL PIPING RUNNING ON WALLS BE SUPPORTED BY MEANS OF HANGERS
- SUSPENDED FROM HEAVY ANGLE IRON WALL BRACKETS. NO WALL HOOKS WILL BE K. LATERAL BRACING OF HORIZONTAL PIPE SHALL BE PROVIDED WHERE REQUIRED TO PREVENT SIDE SWAY OR VIBRATION.

L. NO PIPING SHALL BE ASSEMBLED IN SUCH A MANNER AS TO HAVE DIELECTRIC

ACTION BETWEEN FERROUS AND NON-FERROUS MATERIALS.

CONSISTS IN FURNISHING ALL LABOR, EQUIPMENT, ACCESSORIES AND MATERIALS

C MECHANICAL SYSTEM INSULATION — THE WORK COVERED BY THIS SPECIFICATION

AND IN PERFORMING ALL OPERATIONS NECESSARY FOR THE INSTALLATION OF THERMAL INSULATION FOR THE PLUMBING. ALL COMPONENTS OF THE INSULATION FOR PIPING INCLUDING, FACINGS, MASTICS AND ADHESIVES, SHALL HAVE A FIRE HAZARD RATING NOT TO EXCEED 25 FOR FLAME SPREAD AND 50 FOR FUEL CONTRIBUTED AND SMOKE DEVELOPED. RATINGS

SHALL BE AS DETERMINED BY UNDERWRITERS LABORATORIES, INCORPORATED, OR

ALL DOMESTIC HOT WATER LINES, HOT WATER RECIRC LINES, AND COLD WATER LINE SHALL BE INSULATED FROM THEIR SOURCE IN THE MECHANICAL ROOM. THROUGH THE CORRIDOR CEILING, TO EACH BRANCH IN THE CORRIDOR WALL WITH FLEXIBLE CLOSED-CELL POLYETHYLENE BY THERMACELL OR ARMAFLEX-2000.

CHARACTERISTICS, K = .25 @ 75 DEGREES F. .01 WATER PERM. IN., 1/2"

OTHER APPROVED TESTING LABORATORY IN ACCORDANCE WITH ASTME-84

END OF SECTION 15410 DIVISION 15 - MECHANICAL / PLUMBING

SECTION 15440 - PLUMBING FIXTURES A. REFER TO PLUMBING FIXTURE SCHEDULE IN THE PLUMBING DESIGN CONSTRUCTION DOCUMENTS.

END OF SECTION 15440

CONTRACTOR SHALL FIELD VERIFY ALL **EXISTING CONDITIONS AND DIMENSIONS** PRIOR TO BID AND REPORT ANY

DISCREPANCIES BACK TO OWNER.

CONTRACTORS AND ENSURE A COMPLETE

FULLY CODE COMPLIANT AND

PROFESSIONALLY FINISHED TENANT SPACE.

ISSUED / REVISIONS:

SHALL COORDINATE ALL SU



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000 CHECKED BY: Staff DRAWN BY: Staff SEPTEMBER 12, 2023 PER PLAN PROJECT No.: PSS 2401

| Ш | SHEET TITLE **PLUMBING SPECIFICATIONS**

RETURN AIR PLENUM

MATERIALS WITHIN PLENUMS. EXCEPT AS REQUIRED BY SECTIONS 602.2.1.1 THROUGH 602.2.1.6, MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 ORUL 723.

EXCEPTIONS: 1. RIGID AND FLEXIBLE DUCTS AND CONNECTORS SHALL CONFORM TO SECTION 603.

BOARD ASSEMBLIES OR WITHIN MATERIALS LISTED AND LABELED FOR SUCH APPLICATION.

AS PLENUM RATED AND SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70.

- 2. DUCT COVERINGS, LININGS, TAPE AND CONNECTORS SHALL CONFORM TO SECTIONS 603 AND 604.
- 3. THIS SECTION SHALL NOT APPLY TO MATERIALS EXPOSED WITHIN PLENUMS IN ONE- AND TWO-FAMILY DWELLINGS. 4. THIS SECTION SHALL NOT APPLY TO SMOKE DETECTORS.
- 5. COMBUSTIBLE MATERIALS FULLY ENCLOSED WITHIN CONTINUOUS NONCOMBUSTIBLE RACEWAYS OR ENCLOSURES, APPROVED GYPSUM
- 602.2.1.1 WIRING. COMBUSTIBLE ELECTRICAL OR ELECTRONIC WIRING METHODS AND MATERIALS, OPTICAL FIBER CABLE, AND OPTICAL FIBER RACEWAY EXPOSED WITHIN APLENUM SHALL HAVE A PEAK OPTICAL DENSITY NOT GREATER THAN 0.50, AN AVERAGE OPTICAL DENSITY NOT GREATER THAN 0.15, AND A FLAME SPREAD NOT GREATER THAN 5 FEET (1524 MM) WHEN TESTED IN ACCORDANCE WITH NFPA 262. ONLY TYPE OFNP (PLENUM RATED NONCONDUCTIVE OPTICAL FIBER CABLE) SHALL BE INSTALLED IN

PLENUM-RATED OPTICAL FIBER RACEWAYS. WIRING, CABLE, AND RACEWAYS ADDRESSED IN THIS SECTION SHALL BE LISTED AND LABELED

SPRINKLER NOTES WHERE POSSIBLE, REWORK THE EXISTING SPRINKLER SYSTEM TO MEET THE NEW REQUIREMENTS OF THIS DESIGN. RELOCATE ALL MAINS AND BRANCHES 2. THE CONTRACTOR THAT DOES THE ACTUAL SPRINKLER WORK IS REQUIRED TO BE A OWNER APPROVED SPRINKLER CONTRACTOR. THE SPRINKLER CONTRACTOR'S SYSTEM DESIGN ENGINEER SHALL SURVEY THE INTERFERING WITH CEILING HEIGHTS, EQUIPMENT, LIGHTS, AND MAJOR BEFORE STARTING WORK, THE CONTRACTOR SHALL EXAMINE SITE PRIOR TO DESIGNING THE SPRINKLER SYSTEM. COMPONENTS INCLUSIVE OF ADJACENT TENANTS AND MALL COMMON AREAS. ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL PLANS AND SPECIFICATIONS TO SEQUENCE, COORDINATE, AND INTEGRATE THE VARIOUS 2. THE DESIGNATED SPRINKLER CONTRACTOR AND HIS SPRINKLER DESIGN REMOVE ALL UNUSED PIPING. ENGINEER SHALL WARRANT THAT THE SYSTEM DESIGN COMPLIES TO THE FOLLOWING ELEMENTS OF THE FIRE PROTECTION SYSTEM, MATERIALS, AND EQUIPMENT WITH 4. LOCATIONS OF ALL HEADS SHOULD BE APPROVED BY THE LOCAL FIRE REQUIREMENTS: PROTECTION OFFICIAL AND THE TENANT'S CONSTRUCTION MANAGER BEFORE INSTALLATION. HEADS MUST BE LOCATED IN THE CENTER OF CEILING TILES AND OTHER CONTRACTORS TO AVOID INTERFERENCES AND CONFLICTS. THE SPRINKLER SYSTEM DESIGN AND INSTALLATION SHALL CONFORM TO NFPA-13 RELOCATION OF EXISTING MAINS, LATERALS, BRANCHES, AND RISERS TO AND THE SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED IN A
MANNER TO PRECLUDE ANY DAMAGE CAUSED BY A FAILURE OF THE SPRINKLER
SYSTEM DUE TO ENVIRONMENTAL CONDITIONS. ENVIRONMENTAL CONDITIONS
ARE TO INCLUDE, BUILDING SUELIN EXPANSION (CONTRACTION OF AND
EXPERSIVE LIFET). BUILDING SUELIN EXPANSION (CONTRACTION OF AND FACILITATE SPACE DESIGN MUST BE INCLUDED IN BID PROPOSAL. IN A SYMMETRICAL PATTERN WITH OTHER CEILING FIXTURES. ADDITIONAL MONIES WILL NOT BE ALLOCATED FOR ADDITIONAL HEADS REQUIRED BY FIELD SHOP DRAWINGS FIRE INSPECTOR AFTER BIDS ARE ACCEPTED. THE FIRE PROTECTION CONTRACTOR SHALL PREPARE DETAILED SHOP PROVIDE AND INSTALL A VALVED TEST CONNECTION FOR THE SPRINKLER DRAWINGS AND CALCULATIONS FOR HIS WORK. SUBMIT SIX (6) COPIES TO GENERAL EXCESSIVE HEAT), BUILDING SHELL EXPANSION/CONTRACTION CYCLES, AIR SYSTEM AS REQUIRED OR REQUESTED BY THE MALL, LOCAL INSPECTOR, OR INSURANCE CARRIER. COORDINATE LOCATION WITH TENANT'S CONSTRUCTION CONTRACTOR FOR APPROVAL. NO WORK SHALL BEGIN UNTIL OWNERS LEAKAGE, STACK EFFECTS, ETC. OCCURRING IN ANY PLENUM OR CAVITY WHERE THE SPRINKLER SYSTEM IS ROUTED. CONSTRUCTION MANAGER APPROVES HEAD AND PIPING LOCATIONS. MANAGER AND LOCAL FIRE PROTECTION OFFICIAL PRIOR TO ROUGH-IN. 3. THE SPRINKLER CONTRACTOR SHALL COORDINATE THE SPRINKLER SYSTEM DESIGN AND INSTALLATION WITH THE GENERAL CONTRACTOR TO THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR SUBMITTING SPRINKLER HEADS LOCATED IN STOCK, CORRIDOR, OR TOILET ROOM CEILINGS COORDINATED DRAWINGS, CALCULATIONS, HEAT TYPES AND COLORS TO ALL OR WALLS BELOW 8 FEET ABOVE THE FINISHED FLOOR ARE TO BE PROTECTED WITH AUTHORITIES HAVING JURISDICTION FOR APPROVAL. NO WORK SHALL BEGIN INSURE SYSTEM FUNCTION. APPROVED GUARDS. THE GENERAL CONTRACTOR SHALL INSPECT THE ENTIRE EXPOSED INTERIOR

UNTIL ALL
BUILDING SHELL AS IT RELATES TO THE DEMISED SPACE PRIOR TO CONSTRUCTION. D. EQUIPMENT
THIS IS TO VERIFY THAT THERE IS NO VOID OR PENETRATION OF THE BUILDING

1. SPRINKLER! UNTIL ALL APPROVALS HAVE BEEN RECEIVED. PIPING: SCHEDULE 40, BLACK STEEL PIPE, ASTM A-53 FOR FERROUS PIPING, WELDED AND SEAMLESS, ANSI B-36-10-70 FOR WROUGHT STEEL PIPE. SPRINKLER HEADS A. ALL SPRINKLER HEADS SHALL BE NEW (EXISTING HEADS SHALL BE REPLACED), U.L., F.M. LISTED AND APPROVED AUTOMATIC SPRAY TYPE AS MANUFACTURED BY CENTRAL SPRINKLER CO., GLOBE, GRINNELL, RELIABLE, SHELL OR NON-INSULATED CONDITION WHICH WOULD ALLOW EXTERIOR CAST IRON OR MALLEABLE IRON SCREWED FITTINGS FOR PIPES 2 INCHES AND EXPOSURE(S) TO AFFECT THE TEMPERATURE OF THE PLENUM WHERE THE SMALLER. SCREWED OR CAST IRON FLANGED JOINTS FOR PIPES LARGER THAN 2 INCHES. sprinkler` system is routed. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF FIREPROOF, INSULATED CLOSURES, EQUIVALENT TO THE BASIC STRUCTURE STAR, OR VIKING. GALVANIZED OR BLACK MALLEABLE IRON WITH BRASS SEAT SCREWED UNIONS ALL SPRINKLER HEADS SHALL BE RATED FOR 165 DEGREES F UNLESS INDICATED OTHERWISE ON DRAWINGS OR REQUIRED BY LOCAL CODES. FOR PIPES 2 INCHES AND SMALLER. INSULATION VALUE, OF ANY VOID OR PENETRATION OF THE DEMISED SPACE PRIOR VICTAULIC TYPE COUPLINGS ARE ACCEPTABLE, WHERE APPROVED BY THE TO THE INSTALLATION OR MODIFICATION OF THE SPRINKLER SYSTEM OR AUTHORITIES HAVING JURISDICTION AND THE LANDLORD. ALL SPRINKLER HEADS ARE TO HAVE A FACTORY APPLIED WHITE FINISH. PERMANENT FINISHED CLOSURES, I.E. CEILING, WALLS, ETC. VERIFY HEAD TYPES WITH TENANT'S CONSTRUCTION MANAGER AND SUBMIT WITH SPRINKLER DRAWINGS FOR PERMIT. TESTS THE GENERAL CONTRACTOR SHALL WARRANT THAT THE BUILDING SHELL AS IT RELATES TO THE DEMISED SPACE SHALL BE INSULATED TO THE "R" VALUES WHEN COMPLETED, THE ENTIRE FIRE PROTECTION PIPING SYSTEM SHALL BE SPRINKLER HEAD TYPES SHALL BE AS FOLLOWS: HYDROSTATICALLY TESTED AS REQUIRED BY THE RULES AND REGULATIONS OF DESCRIBED BY THE SHELL DESIGN DOCUMENTS. GYP. BD. & LAY-IN CEILINGS SHALL RECEIVE FULLY-RECESSED HEADS WITH THE AUTHORITIES HAVING JURISDICTION. SYSTEM SHALL SHOW NO SIGNS O B. SCOPE WORK: LEAKAGE OR OTHER DEFECTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO THE WORK OF THE OTHER CONTRACTORS OR TO THE BUILDING, OR TO TRIM RING. HEAD AND TRIM RING SHALL HAVE WHITE FINISH. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, TOOLS, TRANSPORTATION, AND FACILITIES NECESSARY FOR, REASONABLY IMPLIED AND INCIDENTAL TO, THE FURNISHING, INSTALLATION, ITS CONTENTS, PEOPLE, ETC. CAUSED BY LEAKS IN ANY OF THE EQUIPMENT INSTALLED BY LEAKS IN ANY OF THE EQUIPMENT INSTALLED BY LEAK IN ANY OF THE EQUIPMENT INSTALLED BY THE EQUIPMENT OF DAMAGES SHALL BE AT NO CEILING — UPRIGHT HEADS: UPRIGHT HEADS SHALL HAVE STANDARD FINISH. NOTE: ALL HORIZONTAL SPRINKLER RUNS AT SIDEWALL SOFFITS SHALL BE COMPLETION, AND TESTING OF ALL THE WORK FOR THE SPRINKLER SYSTEMS THIS CONTRACTOR'S EXPENSE. CONCEALED WITHIN SOFFIT FRAMING. REQUIRED BY THE CONSTRUCTION DOCUMENTS AND AS REQUIRED BY JOB PROPERLY COMPLETED AND SIGNED "SPRINKLER CONTRACTOR'S MATERIAL AND CONDITIONS, TO INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING: GENERAL PIPING TEST CERTIFICATES" SHALL BE FURNISHED TO THE LANDLORD, AUTHORITIES HAVING JURISDICTION, AND TENANT'S CONSTRUCTION MANAGER. THE EXISTING SPACE SHALL BE SPRINKLED OR A FIRE PROTECTION STUB-IN SHALL BE FURNISHED BY THE LANDLORD. SPRINKLER HEAD SPACING SHALL NOT EXCEED 130 SQ. FT. IN "SALES" AREAS AND 100 SQ. FT. IN "STOCK" AREAS. A. MODIFICATION OF EXISTING WET PIPE SPRINKLER SYSTEM AS REQUIRED TO PROVIDE COVERAGE IN ACCORDANCE WITH NFPA 13, LOCAL CODES, AND INSURANCE CARRIERS FOR THE OWNER. B. TAPS, RISERS, LATERALS, BRANCHES, VALVES, ALARMS, SPRINKLER HEADS, AND ALL COMPONENTS REQUIRED FOR A COMPLETE SYSTEM. COMPLY WITH LANDLORD'S DESIGN CRITERIA. PIPE SIZING SHALL BE BASED ON NFPA ORDINARY HAZARD. ALL SPRINKLER LINES SHALL BE INSTALLED TO AVOID INTERFERENCE WITH LIGHTS, DUCTS, PIPES, STORAGE DECK, ETC. FIRE PROTECTION CONTRACTOR SHALL PREPARE COORDINATED SHOP DRAWINGS INDICATING THE LOCATIONS OF LIGHTS, DUCTS, PIPES, AIR DEVICES, ETC. PRIOR TO INSTALLATION. DESIGN DRAWINGS, CALCULATIONS, SUBMITTALS, AND APPROVALS. PERMITS, FEES, AND CHARGES. TESTS AND TEST CERTIFICATES.

COST FOR SHUT DOWN FEES.

SYMBOLS LEGEND

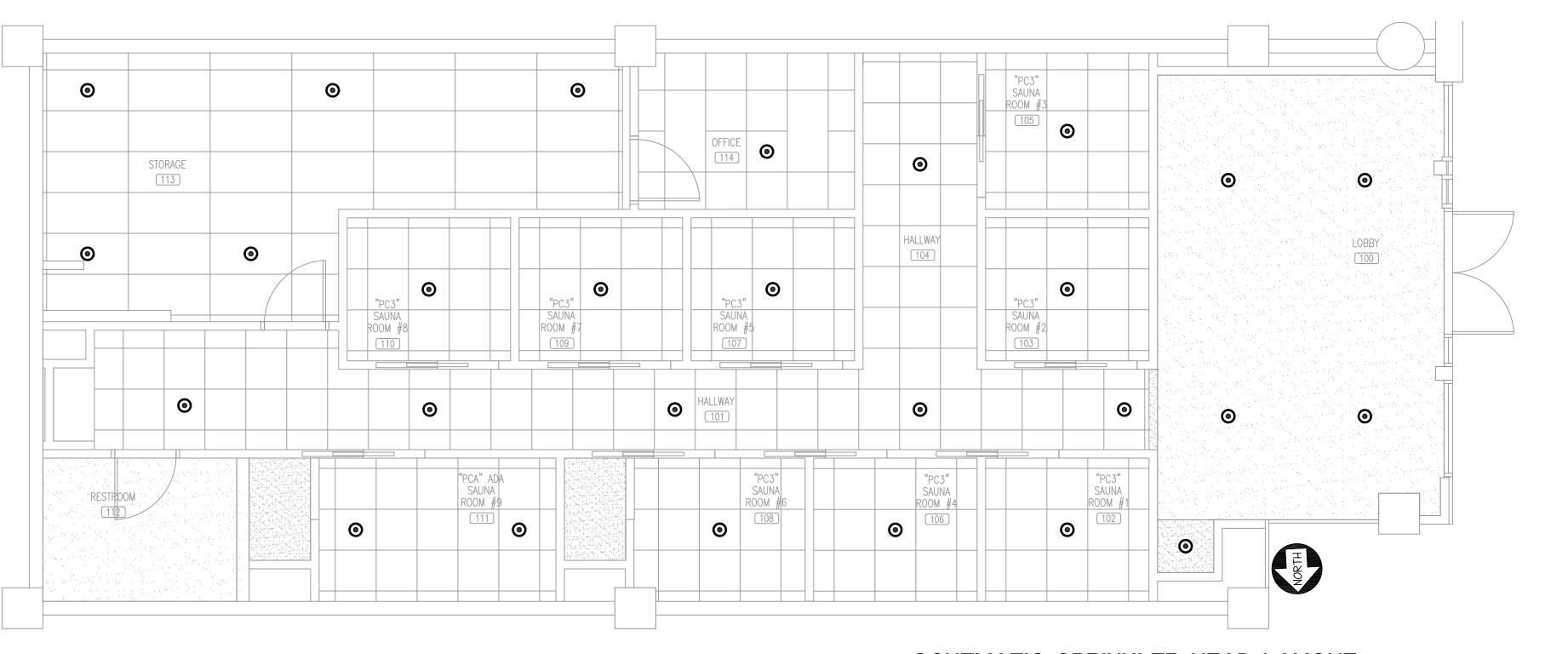
SYMBOL / ABBREVIATION		DESCRIPTION			
•	FULLY	CONCEALED	SPRINKLER	HEAD (FINISH ADJACEN	TO MATCH I SURFACE)

THIS DRAWING IS FOR REFERENCE ONLY. TENANTS GENERAL CONTRACTOR AND/OR HIS/HER SPINKLER SUBCONTRACTOR

TO HIRE A LOCAL SPINKLER/FIRE PROTECTION ENGINEER (UNLESS SUCH WORK IS COMPLETED BY A QUALIFIED INDIVIDUAL WORKING DIRECTLY FOR THE SPINKLER SUBCONTRACTOR, IF ALLOWED BY LAW/CODE) TO ENGINEER A SPRINKLER SYSTEM WHICH THIS SAME CONTRACTOR IS TO FURNISH AND INSTALL NEW OR MODIFY EXISTING AS REQUIRED, MEETING ALL LOCAL CODES AND FIRE MARSHALL REQUIREMENTS.

SPRINKLER SYSTEM TO BE INSTALLED THROUGHOUT SPACE INCLUDING ALL CLOSETS. SPRINKLER CONTRACTOR TO SUBMIT PLANS, SHOP DRAWINGS AND CALCULATION TO FIRE DEPARTMENT FOR APPROVAL. SYSTEM SHALL COMPLY WITH CURRENT NFPA-13

SEPARATE PERMIT AND REVIEW WILL BE REQUIRED FOR ANY FIRE PROTECTION SYSTEM WORK. G.C. TO ENSURE SEPARATE SUBMITTAL FIRE MARSHALL REQUIREMENTS.



SCHEMATIC SPRINKLER HEAD LAYOUT

CONTRACTOR SHALL FIELD VERIFY ALL FXISTING CONDITIONS AND DIMENSIONS PRIOR TO BID AND REPORT ANY DISCREPANCIES BACK TO OWNER. G.C. SHALL COORDINATE ALL SUB CONTRACTORS AND ENSURE A COMPLETE FULLY CODE COMPLIANT AND PROFESSIONALLY FINISHED TENANT SPACE. ISSUED / REVISIONS:



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000 2450 SOUSUITE D1 DENVER, 0 000 000 000 000

CHECKED BY: Staff DRAWN BY: Staff **SEPTEMBER 12, 2023** PER PLAN PROJECT No.: PSS 2401

SCHEMATIC SPRINKLER HEAD LAYOUT