

City of Sparks Rec Center Restroom ADA Upgrades

COVER SHEET **a000**



FORMGREY STUDIO
650 S. Rock Blvd. #114 | 775-507-7200 | www.formgrey.com

City of Sparks Rec Center
Restroom ADA Upgrades

City of Sparks
98 Richards Way
Sparks NV 89431



JON R. ERICSON, PE, P.T.O.E.
CITY ENGINEER

PWP #WA-2020-052
BID #19/20-004

BID SET - NOT FOR CONSTRUCTION 10/21/2019

2018-19

10/21/2019 10:16:41 AM

GENERAL NOTES

1. THESE GENERAL NOTES PERTAIN TO WORK DESCRIBED ON ALL CONTRACT DOCUMENTS.
2. THE CONTRACT DOCUMENTS CONSIST OF THE OWNER CONTRACTOR AGREEMENT, THE CONDITIONS OF CONTRACT (GENERAL, SUPPLEMENTARY, AND OTHER CONDITIONS), THE DRAWINGS, THE SPECIFICATIONS, AND ALL ADDENDA ISSUED PRIOR TO AND ALL MODIFICATIONS ISSUED AFTER EXECUTION OF THE CONTRACT.
3. FORMGREY STUDIO, LLC IS THE AUTHOR OF THESE PLANS AND CLAIMS A COPYRIGHT IN THESE PLANS AND THE DESIGNS CONTAINED IN THESE PLANS. THIS CLAIM IS MADE UNDER TITLE 17 OF THE UNITED STATES CODE AND ALL APPLICABLE TREATIES AND FOREIGN LAWS. THESE COPYRIGHTED DRAWING FILES ARE TO BE USED FOR REFERENCE ONLY. FORMGREY STUDIO, LLC WILL TAKE NO RESPONSIBILITY FOR ANY CHANGES MADE TO THESE DOCUMENTS BY ANOTHER PARTY AND NO LICENSE IS GIVEN FOR TRANSFER OF THESE COPYRIGHTS TO ANOTHER PARTY.
4. THE WORK COMPRISES THE COMPLETED CONSTRUCTION REQUIRED BY THE CONTRACT DOCUMENTS AND INCLUDES ALL LABOR NECESSARY TO PRODUCE SUCH CONSTRUCTION, AND ALL MATERIALS AND EQUIPMENT INCORPORATED OR TO BE INCORPORATED IN SUCH CONSTRUCTION.
5. SHOP DRAWINGS, PRODUCT DATA AND SAMPLES ARE NOT A PART OF THE CONTRACT DOCUMENTS. THE ARCHITECT WILL REVIEW THEM, BUT ONLY FOR CONFORMANCE WITH THE DESIGN CONCEPT OF THE WORK AND WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ANY DEVIATION FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE ARCHITECT'S REVIEW OF SHOP DRAWINGS, PRODUCT DATA OR SAMPLES.
6. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONTRACT DOCUMENTS AND SHALL AT ONCE REPORT TO THE ARCHITECT ANY ERROR, INCONSISTENCY OR OMISSIONS HE/SHE MAY DISCOVER. THE CONTRACTOR SHALL PERFORM NO PORTION OF THE WORK AT ANY TIME WITHOUT CONTRACT DOCUMENTS OR, WHERE REQUIRED, APPROVED SHOP DRAWINGS, PRODUCT DATA OR SAMPLES FOR SUCH PORTION OF THE WORK.
7. ALL WORK IS TO CONFORM WITH THE CONTRACT DOCUMENTS. DRAWINGS ARE NOT TO BE SCALED FOR INFORMATION IF UNABLE TO LOCATE DIMENSIONS FOR ANY ITEM OF WORK, CONSULT WITH THE ARCHITECT BEFORE PROCEEDING WITH CONSTRUCTION.
8. IN THE EVENT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE CONTRACT DOCUMENTS, THEN THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR CALLED FOR AND SHALL BE REVIEWED BY THE ARCHITECT.
9. ALL WORK SHALL BE PERFORMED WITHIN STRICT CONFORMANCE TO THE MINIMUM STANDARDS OF THE CURRENT EDITION OF THE INTERNATIONAL BUILDING CODE AND ALL APPLICABLE NATIONAL, STATE, AND LOCAL LAWS, REGULATIONS AND ORDINANCES.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE GENERAL SAFETY DURING CONSTRUCTION, AND ALL WORK SHALL CONFORM TO PERTINENT SAFETY REGULATIONS.
11. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF ANY AND ALL MECHANICAL, TELEPHONE, ELECTRICAL, LIGHTING AND PLUMBING INCLUDING ALL PIPING, DUCT WORK AND CONDUIT. COORDINATE ALL REQUIRED CLEARANCES FOR INSTALLATION AND MAINTENANCE OF THE ABOVE EQUIPMENT.
12. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING HIS/HER BEST SKILL AND ATTENTION, HE/SHE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACTS AND OMISSIONS OF HIS/HER EMPLOYEES, SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES, AND OTHER PERSONS PERFORMING ANY WORK UNDER A CONTRACT WITH THE CONTRACTOR.
14. THE CONTRACTOR SHALL PURSUE WORK IN A CONTINUOUS AND DILIGENT MANNER TO INSURE TIMELY COMPLETION OF THE PROJECT.
15. THE CONTRACTOR AT ALL TIMES SHALL KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY HIS/HER OPERATIONS. AT THE COMPLETION OF THE WORK, HE/SHE SHALL REMOVE ALL HIS/HER WASTE MATERIALS AND RUBBISH FROM AND ABOUT THE PROJECT AS WELL AS ALL HIS/HER TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY, AND SURPLUS MATERIALS.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND/OR PROTECTION OF ALL EXISTING AND PROPOSED PIPING, UTILITIES, STRUCTURES, ADJACENT STREETS, AND IMPROVEMENTS DURING THE PERIOD OF CONSTRUCTION.
17. UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROVIDE AND PAY FOR ALL LABOR, MATERIAL, EQUIPMENT, TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY, WATER, HEAT, UTILITIES, TRANSPORTATION, AND OTHER FACILITIES AND SERVICES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.
18. THE CONTRACTOR SHALL SUBMIT WEEKLY JOB STATUS REPORTS TO THE ARCHITECT. THE REPORT SHALL STATE ACTUAL PROGRESS OF THE JOB AND LIST ANY CHANGES OR CONDITIONS WITHIN THE SCOPE OF THE CONTRACT DOCUMENTS AFFECTING THE JOB PROGRESS.
19. WHERE CONFLICTS OCCUR, COORDINATE THE LAYOUT AND EXACT LOCATION OF ALL PARTITIONS, DOORS, TELEPHONES AND ELECTRICAL/COMMUNICATION OUTLETS AND SWITCHES WITH ARCHITECT IN THE FIELD BEFORE PROCEEDING WITH CONSTRUCTION.
20. WHERE CONFLICT IS ENCOUNTERED BETWEEN THE CONTRACT DOCUMENTS THAT WILL MATERIALLY AFFECT THE QUALITY OR EXTENT OF THE WORK, SUCH CONFLICT SHALL BE RESOLVED TO THE SATISFACTION OF THE ARCHITECT BEFORE THE AFFECTED ITEMS AND/OR MATERIALS ARE PURCHASED, FABRICATED AND/OR INSTALLED.
21. WHERE PRE-MANUFACTURED OR PRE-FABRICATED ITEMS AND/OR MATERIALS ARE TO BE INSTALLED - THE CONTRACTOR SHALL VERIFY ROUGH OR FINISHED DIMENSIONS IN THE FIELD PRIOR TO PURCHASE OR FABRICATION.
22. THE CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS TO BE FREE FROM DEFECTS FOR A MINIMUM OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE, AND PROMPTLY REMEDY SUCH DEFECTS AND ANY SUBSEQUENT DAMAGE CAUSED BY THE DEFECTS OR REPAIR THEREOF, AT NO EXPENSE TO THE OWNER. GUARANTEE PERIODS OF GREATER THAN ONE YEAR MAY BE REQUIRED AND CONTAINED WITHIN THE CONTRACT DOCUMENTS.
23. UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS THE CONTRACTOR SHALL SECURE AND PAY FOR THE BUILDING PERMIT AND FOR ALL OTHER PERMITS AND GOVERNMENTAL FEES, LICENSES AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.
24. WHERE ANY ITEM AND/OR MATERIAL IS INDICATED IN THE CONTRACT DOCUMENTS, AND NOT NECESSARILY DETAILED IN EACH SPECIFIC CASE, BUT IS REQUIRED FOR A COMPLETE AND PROFESSIONAL INSTALLATION - SUCH ITEM AND/OR MATERIAL SHALL BE PROVIDED AS IF SHOWN AND DETAILED IN FULL. PROVIDE MEANS TO FURNISH AND INSTALL.

CODES

2018 INTERNATIONAL BUILDING CODE
 2018 UNIFORM MECHANICAL CODE
 2018 UNIFORM PLUMBING CODE
 2018 INTERNATIONAL ENERGY CONSERVATION CODE
 2018 INTERNATIONAL FUEL GAS CODE
 2018 INTERNATIONAL EXISTING BUILDING CODE
 2017 NATIONAL ELECTRICAL CODE
 2018 NORTHERN NEVADA AMENDMENTS

2018 INTERNATIONAL FIRE CODE
 2018 NORTHERN NEVADA INTERNATIONAL FIRE CODE AMENDMENTS

2017 ANSI 117.1 STANDARD
 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

OCCUPANCY GROUP: A-3
CONSTRUCTION TYPE: III-B
NUMBER OF STORIES: 1
ALLOWABLE FLOOR AREA PER TABLE 503: 9,500 SF
AREA MODIFICATIONS PER 506: N/A
FRONTAGE INCREASE PER 506.1 & 506.2: N/A
BUILDING AREA: 10,895 GROSS SF*
 * BUILDING CONSTRUCTED IN 1964 -1965 PRIORITY TO IMPLEMENTATION OF THE I.B.C.

ALLOWABLE HEIGHT: 55'-0"
BUILDING HEIGHT: 20'-0"
EXTERIOR WALL FIRE RATING: N/A
ROOF FIRE RATING: N/A
DEMISING WALL FIRE RATING: N/A
FLOOR/CEILING FIRE RATING: N/A
PROTECTED OPENINGS: N/A
UNPROTECTED OPENINGS: N/A
FULLY SPRINKLERED: NO
ALARM SYSTEM: N/A

INSULATION REQUIRED:

ROOF	R-2	A-3
WALL	R-38	R-49
FOUNDATION	R-21	R-20 + R-3.8 ci
	R-10.8	R-10.8

PROPERTY INFORMATION

ADDRESS: 98 RICHARDS WAY SPARKS, NV 89431
 APN: 028-330-57
 SITE AREA: 4.875 ACRES (212,355 SF)
 BLOCK: N/A
 LOT: N/A
 SUBDIVISION: N/A
 ZONING: N/A
 F.A.R.: N/A

PROJECT TEAM

OWNER

City of Sparks
 431 Prater Way, Sparks NV 89431
 (775) 224-2976
 Rob Bidart: rbidart@cityofsparks.nv.gov

ARCHITECTURAL

FormGrey Studio, LLC
 650 South Rock Boulevard #14, Reno NV 89502
 (775) 507-7200
 Matt Ronhaar, AIA, NCARB: mronhaar@formgrey.com

MECHANICAL/PLUMBING/ELECTRICAL

Kimley-Horn and Associates, Inc.
 5370 Kietzke Lane, Suite 100, Reno NV 89511
 (775) 787-7552
 Matt Myres: Matt.Myres@kimley-horn.com

PROJECT DATA

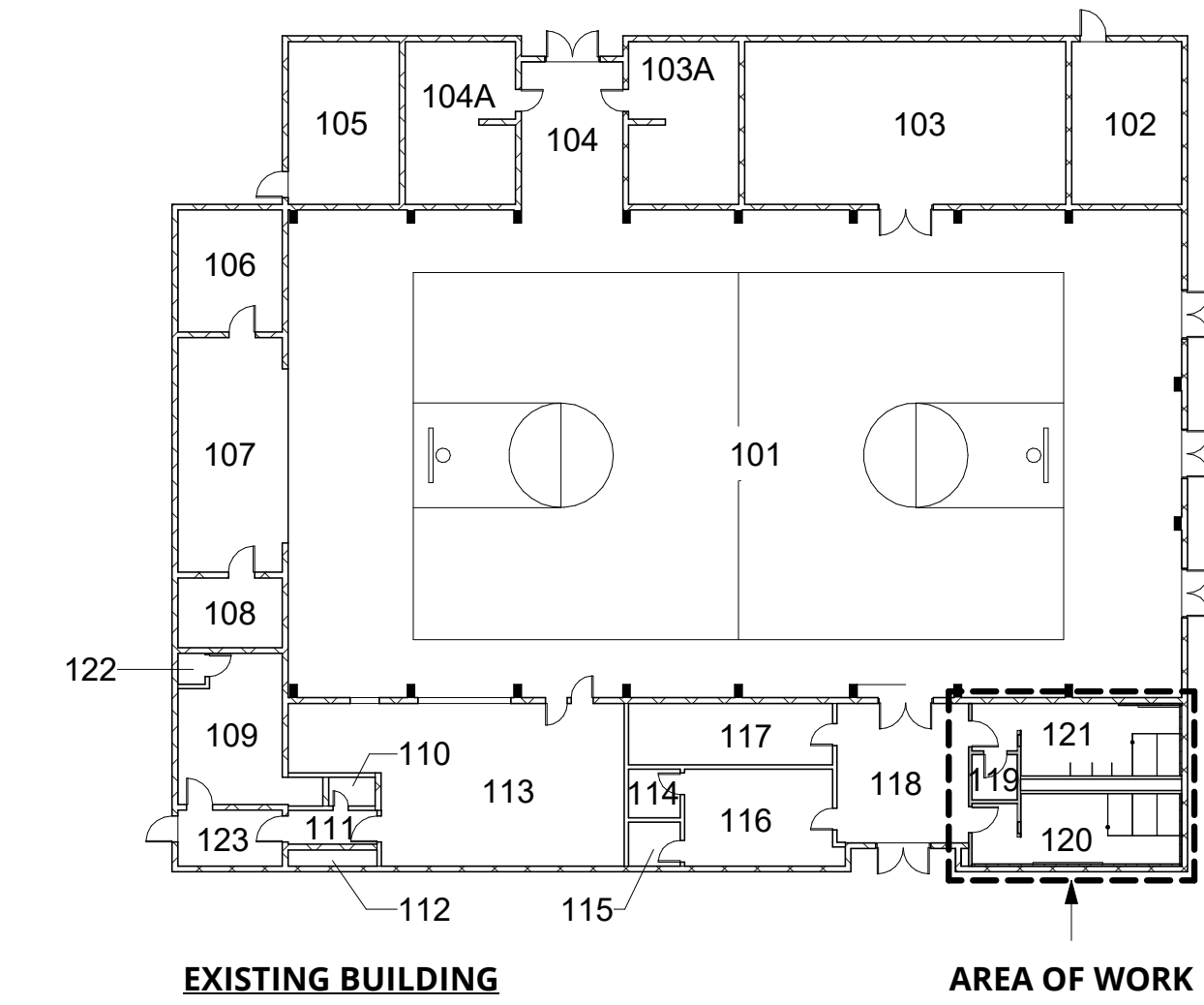
EXISTING NET BUILDING SQUARE FOOTAGE:

EXERCISE ROOM	5,726 SF
STORAGE	1,895 SF
OFFICE	194 SF
STAGE	336 SF
ASSEMBLY	481 SF
COMMERCIAL KITCHEN	608 SF
RESTROOM	893 SF
TOTAL	10,133 NET SF

VICINITY MAP



FIXTURE CALCULATIONS



OCCUPANT LOADING & FIXTURE ANALYSIS*					
ROOM NUMBER	ROOM NAME	SPACE FUNCTION	ROOM AREA	OCC. LOAD FACTOR (I.B.C. TBL. 1004.1.2)	OCC. LOAD
101	MULTI-PURPOSE ROOM	EXERCISE ROOM	5726 SF	1 OCC. / 50 S.F.	115 OCCUPANTS
102	MECHANICAL ROOM	STORAGE	236 SF	1 OCC. / 300 S.F.	1 OCCUPANT
103	EQUIPMENT STORAGE	STORAGE	689 SF	1 OCC. / 300 S.F.	3 OCCUPANTS
103A	BOYS RESTROOM	RESTROOM	234 SF	N/A	0 OCCUPANTS
104	VESTIBULE	ASSEMBLY	198 SF	1 OCC. / 15 S.F. (NET)	40 OCCUPANTS
104A	GIRLS RESTROOM	RESTROOM	234 SF	N/A	0 OCCUPANTS
105	EQUIPMENT STORAGE	STORAGE	239 SF	1 OCC. / 300 S.F.	1 OCCUPANT
106	SACRISTY	STORAGE	168 SF	1 OCC. / 300 S.F.	1 OCCUPANT
107	PLATFORM	PLATFORM	336 SF	1 OCC. / 15 S.F. (NET)	23 OCCUPANTS
108	SACRISTY	STORAGE	96 SF	1 OCC. / 300 S.F.	1 OCCUPANT
109	KITCHEN STORAGE	STORAGE	209 SF	1 OCC. / 300 S.F.	1 OCCUPANT
110	UNISEX RESTROOM	RESTROOM	18 SF	N/A	0 OCCUPANTS
111	VESTIBULE	ASSEMBLY	49 SF	1 OCC. / 5 S.F. (NET)	13 OCCUPANTS
112	PANTRY	STORAGE	19 SF	N/A	0 OCCUPANTS
113	KITCHEN	COMM. KITCHEN	607 SF	1 OCC. / 200 S.F.	4 OCCUPANTS
114	CLOSET	STORAGE	33 SF	1 OCC. / 300 S.F.	1 OCCUPANT
115	UNISEX RESTROOM	RESTROOM	38 SF	N/A	0 OCCUPANTS
116	OFFICE	BUSINESS	192 SF	1 OCC. / 100 S.F.	2 OCCUPANTS
117	COAT ROOM	STORAGE	165 SF	1 OCC. / 300 S.F.	1 OCCUPANT
118	FEVER	ASSEMBLY	243 SF	1 OCC. / 15 S.F. (NET)	49 OCCUPANTS
119	JANITORS CLOSET	EQUIPMENT ROOM	27 SF	1 OCC. / 300 S.F.	1 OCCUPANT
120	WOMEN'S RESTROOM	RESTROOM	145 SF	N/A	0 OCCUPANTS
121	MENS RESTROOM	RESTROOM	154 SF	N/A	0 OCCUPANTS
122	HOT WATER HEATER ROOM	EQUIPMENT ROOM	41 SF	1 OCC. / 300 S.F.	1 OCCUPANT
123	VESTIBULE	ASSEMBLY	77 SF	1 OCC. / 15 S.F. (NET)	6 OCCUPANTS
					264 TOTAL OCCUPANTS

U.P.C. TABLE 422.1
 MINIMUM PLUMBING FACILITIES

Each building shall be provided with sanitary facilities, including provisions for persons with disabilities as prescribed by the Department Having Jurisdiction, Table 422.1 applies to new buildings, additions to buildings, and changes of occupancy or type in an existing building resulting in increased occupant load.

TYPE OF OCCUPANCY*	WATER CLOSETS (FIXTURES PER PERSON)†		URINALS		LAVATORIES (FIXTURES PER PERSON)		BATHTUBS OR SHOWERS (FIXTURES PER PERSON)	DRINKING FOUNTAINS (FIXTURES PER PERSON)	OTHER
	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE			
A-3 Assembly occupying typical without fixed or permanent seating - arcades, places of worship, museums, libraries, lecture halls, gymnasiums (without spectator seating), indoor pools (without spectator seating)	1: 1-100 2: 101-200 3: 201-400	1: 1-25 2: 26-50 3: 51-100 4: 101-200 5: 201-300 8: 301-400	1: 1-100 2: 101-200 3: 201-400 4: 401-600	1: 1-100 2: 101-200 3: 201-400 4: 401-600 6: 601-750	1: 1-100 2: 101-200 3: 201-400 4: 401-600 6: 601-750	N/A	N/A	1: 1-250 2: 251-500 3: 501-750	1 SERVICE SINK OR LAUNDRY TRAY

FIXTURE ANALYSIS (A-3 OCCUPANCY)*

FIXTURE TYPE	264 TOTAL OCCUPANTS			
	132 MALE		132 FEMALE	
	REQ.	PROV. **	REQ.	PROV. **
WATER CLOSET	2	3	4	6
URINALS	2	4	N/A	N/A
LAVATORIES	1	4	2	4
BATHTUBS/SHOWERS	N/A	N/A	N/A	N/A
DRINKING FOUNTAIN	2	2	N/A†	N/A†
SERVICE SINK	1	1	N/A†	N/A†

1. THE FIGURES SHOWN ARE BASED UPON ONE FIXTURE BEING THE MINIMUM REQUIRED FOR THE NUMBER OF PERSONS INDICATED OR ANY FRACTION THEREOF.
 2. THE TOTAL NUMBER OF REQUIRED WATER CLOSETS FOR FEMALES SHALL BE NOT LESS THAN THE TOTAL OF REQUIRED WATER CLOSETS AND URINALS FOR MALES.

*BASED ON 2018 U.P.C.
 ** INCLUDES EXISTING FIXTURES OUTSIDE OF PROJECT AREA OF WORK
 † DRINKING FOUNTAIN & SERVICE SINK COUNTS NOT GENDER-DEPENDANT

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TITLE SHEET

a001



FORMGREY STUDIO
 650 S. ROCK BLVD. #14 RENO, NV 89502
 (775) 507 7200

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CONSTRUCTION NOTES & SPECIFICATIONS

1. GENERAL REQUIREMENTS:

- A. ALL DIMENSIONS ARE TO BE FIELD VERIFIED. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.**
B. ALL DIMENSIONS ARE TO FACE OF STUD OR STRUCTURE UNLESS NOTED OTHERWISE.

3. CONCRETE:

- A. GENERAL:** CAST-IN-PLACE CONCRETE SLABS AT MAIN LEVEL FLOORS SHALL BE 4" SLABS ON COMPACTED BASE. ALL CONCRETE THAT IS TO BE EXPOSED SHALL BE TROWELED TO A SMOOTH FINISH WITH NO CURING AGENT APPLIED.

4. MASONRY:

- A. GENERAL:** ALL EXISTING MASONRY WALLS TO REMAIN. PREPARE SURFACES FOR NEW INTERIOR FINISH AS INDICATED IN DRAWINGS.

6. WOOD, PLASTICS, AND COMPOSITES

- A. ROUGH CARPENTRY:** SEE DRAWINGS FOR EXISTING WOOD FRAMED WALL TO BE REMOVED AND RE-BUILT. ALL OTHER EXISTING WALLS TO REMAIN.

1. DIMENSIONAL LUMBER SHALL BE CONSTRUCTION OR BETTER FOR LIGHT FRAMING USES.
2. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
3. PROVIDE SOLID 2x BLOCKING BEHIND ALL WALL MOUNTED ACCESSORIES AND FIXTURES.

7. THERMAL AND MOISTURE PROTECTION:

- A. INSULATION:** AT EXISTING EXTERIOR WALLS - 2" EXTRUDED POLYSTYRENE (XPS) RIGID FOAM INSULATION (R-10.8); OWENS CORNING FOAMULAR 150, OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
B. VAPOR BARRIER: INSTALL APPROVED VAPOR BARRIER ON WARM SIDE OF WALL.
C. SUBMITTALS: SUBMIT MANUFACTURER'S PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR EACH MATERIAL AND PRODUCT USED.

8. OPENINGS

- A. DOORS AND WINDOWS:** ALL EXISTING DOORS AND WINDOWS TO REMAIN.

DOOR NOTES:

1. EXISTING DOORS INDICATED IN DRAWINGS TO BE REMOVED, REFINISHED AND REINSTALLED INTO EXISTING OPENING.
2. ALL DOOR HARDWARE SHALL BE AS INDICATED IN 'DOOR HARDWARE SCHEDULE'.

9. FINISHES:

GENERAL:

- A. SUBMITTALS:** SUBMIT MANUFACTURER'S PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR EACH MATERIAL AND PRODUCT USED.
B. QUALITY ASSURANCE: COMPLY WITH GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS THAT HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

FINISH NOTES:

- A.** USE FIBERGLASS REINFORCED MESH JOINT TAPE AT ALL GYPSUM WALL BOARD JOINTS.
B. ALL INTERIOR WALL AND CEILINGS SHALL RECEIVE SMOOTHEST FINISH PERMISSIBLE BY BUDGET UNLESS NOTED OTHERWISE.
C. ALL PAINTS AND PRIMERS SHALL BE ZERO VOC CONTENT. MISCELLANEOUS ADHESIVES AND SEALANTS WITHIN PROJECT TO BE LOW VOC CONTENT.
D. ALL INTERIOR FINISH MATERIAL SELECTIONS SHALL BE APPROVED BY OWNER OR ARCHITECT.

NON-STRUCTURAL METAL FRAMING:

- THE INSTALLATION OF NON-STRUCTURAL STEEL FRAMING SHALL COMPLY WITH ASTM C 754.
A. FRAMING SYSTEM: Z-FURRING: IN DEPTH REQUIRED BY INSULATION, 1-1/4-INCH (32-MM) FACE FLANGE, 7/8-INCH (22-MM) WALL-ATTACHMENT FLANGE, AND 0.018 INCH (0.45 MM) THICK.

- B. ACCESSORIES:** INSTALL SUPPLEMENTARY FRAMING, AND BLOCKING TO SUPPORT FIXTURES, EQUIPMENT SERVICES, HEAVY TRIM, GRAB BARS, TOILET ACCESSORIES, FURNISHINGS, OR SIMILAR CONSTRUCTION.

- WALL BOARD:** ALL NEW INTERIOR WALL AND CEILING FACES ARE TO BE SHEATHED WITH 5/8" MOLD/MOISTURE AND IMPACT RESISTANT GYPSUM BOARD. SEE DRAWINGS. SCREW ALL GYPSUM BOARD TO WALL STUDS, PLATES, BLOCKING, ETC. WITH BUGLE HEAD DRY WALL SCREWS AT 7" o.c. TAPE, TEXTURE, AND PAINT GYPSUM BOARD ACCORDING TO INTERIORS FINISH SCHEDULE. ALL DRYWALL CORNERS TO BE METAL 90 DEGREE SQUARE CORNERS.

- A. WALLS:** ALL INTERIOR WALLS SHALL RECEIVE SMOOTHEST FINISH PERMISSIBLE BY BUDGET. PAINT PER FINISH MATERIAL SCHEDULE.
B. CEILINGS: ALL EXISTING INTERIOR CEILINGS TO REMAIN. PREPARE CEILING SURFACE FOR NEW FINISH. CEILINGS SHALL RECEIVE SMOOTHEST FINISH PERMISSIBLE BY PAINT MANUFACTURER.

- INTERIOR PAINT:** ALL INTERIOR PAINT SHALL BE SHERWIN WILLIAMS INTERIOR ACRYLIC LATEX SEMI-GLOSS, COLOR: SW1011 WHITE.

- FRP WALL PANELS:** ALL NEW AND EXISTING WALLS (EXCLUDING EXISTING EXPOSED MASONRY WALL (MEN'S RESTROOM)) SHALL RECEIVE DECORATIVE FRP WALL PANEL, FLOOR TO CEILING.

1. **MANUFACTURER:** CRANE COMPOSITES, MARLITE, OR APPROVED EQUAL.
2. **COLOR AND TEXTURE:** SHALL BE APPROVED BY OWNER OR ARCHITECT
3. **SUBMITTALS:** SUBMIT 6-INCH BY 6-INCH SAMPLE OF FRP PANEL INDICATING COLOR AND TEXTURE COMBINATIONS. APPROVED SAMPLES WILL BE USED DURING INSTALLATION FOR PRODUCT MATCH.

FINISHED FLOORING:

- EXISTING FLOOR:** EXISTING FLOOR SURFACE SHALL BE PREPARED FOR NEW FLOOR COATING. SEE MANUFACTURER'S INSTRUCTIONS.

- A. RESINOUS FLOOR COATING WITH INTEGRAL COVE BASE:** TWO-COMPONENT EPOXY RESIN COATING BROADCAST WITH COLORED CHIPS (FLAKES) AND SEALED WITH TWO-COMPONENT CLEAR UV LIGHT RESISTANT EPOXY AND TWO-COMPONENT CLEAR ALIPHATIC URETHANE SEALER.

1. **MANUFACTURER:** BASF CONSTRUCTION CHEMICALS, INC.; BASF BUILDING SYSTEMS, DUR-A-FLEX, INC., OR APPROVED EQUAL.
2. **COLOR:** SHALL BE APPROVED BY OWNER OR ARCHITECT
3. **SUBMITTALS:** SUBMIT 6-INCH BY 6-INCH CURED SAMPLES OF FLOORING SYSTEM INDICATING COLOR COMBINATIONS. APPROVED SAMPLES WILL BE USED DURING INSTALLATION FOR PRODUCT MATCH.

10. SPECIALTIES:

TOILET, BATH, AND LAUNDRY SPECIALTIES:

GENERAL NOTES:

A. MANUFACTURERS:

- SUBJECT TO COMPLIANCE WITH REQUIREMENTS, MANUFACTURERS OFFERING TOILET ACCESSORIES THAT MAY BE INCORPORATED IN THE PROJECT INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
A & J WASHROOM, AMERICAN SPECIALTIES, BOBRICK WASHROOM EQUIPMENT, INC., HADRIAN INC.

- SEE DRAWINGS FOR FIXTURE AND ACCESSORY SCHEDULE.

B. ACCESSIBILITY REQUIREMENTS:

1. ACCESSIBLE CONTROLS AND OPERATING MECHANISM: MUST BE OPERABLE WITH ONE HAND, WITHOUT TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LB-FT (22.2 N).
2. TOILET TISSUE DISPENSERS: DO NOT USE TOILET TISSUE DISPENSERS THAT CONTROL DELIVERY, OR DO NOT PERMIT CONTINUOUS PAPER FLOW.

C. INSTALLATION:

1. INSTALL ACCESSORIES ACCORDING TO MANUFACTURERS' WRITTEN INSTRUCTIONS, USING FASTENERS APPROPRIATE TO SUBSTRATE INDICATED AND RECOMMENDED BY UNIT MANUFACTURER. INSTALL UNITS LEVEL, PLUMB, AND FIRMLY ANCHORED IN LOCATIONS AND AT HEIGHTS INDICATED.
2. INSTALL ACCESSORIES IN LOCATIONS, AND AT HEIGHTS INDICATED ON DRAWINGS.
3. IF MOUNTING HEIGHTS AND CLEARANCES ARE NOT INDICATED ON DRAWINGS, COMPLY WITH REQUIREMENTS OF SECTION 504, ADA, AND ANSI STANDARDS TO ACCOMMODATE USE OF ACCESSORY ITEMS BY THE DISABLED.
4. SECURE MIRRORS TO WALLS IN A CONCEALED, TAMPER-RESISTANT MANNER WITH SPECIAL HANGERS, TOGGLE BOLTS, OR SCREWS. SET UNITS LEVEL, PLUMB, AND SQUARE AT LOCATIONS INDICATED, ACCORDING TO MANUFACTURERS' WRITTEN INSTRUCTIONS FOR THE SUBSTRATE INDICATED.
5. INSTALL GRAB BARS TO WITHSTAND DOWNWARD LOAD OF AT LEAST 250 LB-FT (1112 N), TESTED ACCORDING TO METHOD IN ASTM F446.
D. ADJUSTING AND CLEANING:
1. ADJUST ACCESSORIES FOR UNENCUMBERED, SMOOTH OPERATION, AND VERIFY THAT MECHANISMS FUNCTION PROPERLY. REPLACE DAMAGED OR DEFECTIVE ITEMS.
2. REMOVE TEMPORARY LABELS AND PROTECTIVE COATINGS.
3. CLEAN AND POLISH EXPOSED SURFACES ACCORDING TO MANUFACTURER'S WRITTEN RECOMMENDATIONS.

- RESTROOM ACCESSORIES:** SEE DRAWINGS FOR FIXTURE AND ACCESSORY SCHEDULE AND FOR TYPICAL ADA MOUNTING HEIGHTS.

22. PLUMBING:

A. COMMERCIAL PLUMBING FIXTURES:

- WATER CLOSET:** ADA COMPLIANT, WALL MOUNTED. SEE PLUMBING.

- URINAL:** ADA COMPLIANT, WALL MOUNTED. SEE PLUMBING.

- LAVATORY:** ADA COMPLIANT, WALL MOUNTED. SEE PLUMBING.

- LAVATORY FAUCET:** ADA COMPLIANT. SEE PLUMBING.

- WATER COOLER:** ADA COMPLIANT. SEE PLUMBING.

- FLOOR DRAIN:** SEE PLUMBING.

23. HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)

MECHANICAL NOTES:

- A.** EXISTING DUCTS TO BE REMOVED AND REPLACED WITH EXPOSED GALVANIZED SPIRAL DUCTS. ALL DUCTS AND FITTINGS SHALL BE SECURELY JOINED BY MALE OR FEMALE CONNECTING COLLAR OR SLEEVE, WITH HIGH VELOCITY DUCT SEALANT APPLIED TO THE SURFACE OF CONNECTIONS AND APPROVED FASTENING DEVICES. LONGITUDINAL SEAMS MUST BE SEALED. LAYOUT SHALL BE COORDINATED WITH ARCHITECT BUT DESIGNED BY HVAC CONSULTANT.

- EXHAUST FANS:** SEE MECHANICAL.

26. ELECTRICAL:

ELECTRICAL NOTES:

- INSTALL ENERGY STAR-LABELED OR ENERGY STAR ADVANCED LIGHTING PACKAGE FOR ALL INTERIOR LIGHTING. LIGHT FIXTURES IN UNCONDITIONED SPACES MUST BE AIRTIGHT (IE. ICAT FIXTURES)

- A. LIGHTING:** SURFACE MOUNTED LED LIGHT FIXTURES. SEE ELECTRICAL.

GENERAL NOTES

- CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL TRASH GENERATED BY THE CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE FOR FIRE SAFETY AT ALL TIMES DURING CONSTRUCTION. ANY OPERATIONS UTILIZING TORCHES OR OTHER HEAT PRODUCING EQUIPMENT SHALL HAVE FIRE EXTINGUISHER PRESENT AT ALL TIMES.
- CONTRACTOR SHALL NOT SCALE DRAWINGS AND SHALL PROMPTLY REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR RESOLUTION.
- CONTRACTOR TO COMPLY WITH ALL APPLICABLE INTERNATIONAL BUILDING CODES (IBC) AND CURRENT EDITIONS OF INDUSTRY STANDARDS.
- CONTRACTOR SHALL DISTRIBUTE ONLY COMPLETE PLANS AND SPECIFICATIONS. CONTRACTOR SHALL REVIEW EXISTING CONDITIONS AND NOTIFY ARCHITECT OF ANY INCONSISTENCIES PRIOR TO BIDDING AND ANY CONSTRUCTION.
- CONTRACTOR TO COORDINATE WITH OWNER'S REPRESENTATIVE AND SECURITY SERVICES TO GAIN ACCESS TO BUILDING FOR CONSTRUCTION.
- CONTRACTOR TO COORDINATE WITH OWNER'S REPRESENTATIVE FOR PARKING LOCATIONS & STAGING AREA.
- DESIGNATED WORK HOURS TO BE MONDAY-FRIDAY 7:00AM - 5:00PM, OR AS NEGOTIATED.
- CONTRACTOR TO COORDINATE WITH OWNER'S REPRESENTATIVE BY EMAIL OR FAX FOR REMOVAL OF FURNISHINGS PROVIDING A MINIMUM OF THREE DAYS NOTICE.
- CONTRACTOR TO REVIEW GENERAL CONDITIONS IN SPECIFICATIONS FOR HOURS OF WORK, STAGING AREAS, PARKING REQUIREMENTS, ETC.
- THIS PROJECT IS SUBJECT TO 2018 IBC, AND THE ACCESSIBILITY STANDARDS LISTED. ANY CONFLICT BETWEEN THESE SHALL BE RESOLVED BY COMPLYING WITH THE ITEM THAT PROVIDES THE GREATEST ACCESSIBILITY.
- OWNER-SUPPLIED BUILT IN FURNISHINGS, FIXTURES, ACCESSORIES, AND EQUIPMENT - WHETHER OR NOT INDICATED ON DRAWINGS MAY BE REQUIRED TO COMPLY WITH ACCESSIBILITY CODES. ALL OWNER-SUPPLIED BUILT-IN FURNISHINGS, FIXTURES, ACCESSORIES, AND EQUIPMENT SHALL BE FURNISHED IN THE QUANTITIES, CONFIGURATIONS, AND LOCATIONS REQUIRED TO COMPLY WITH ACCESSIBILITY CODES.

GENERAL NOTES & SPECIFICATIONS

a002



FORM GREY
STUDIO

650 S. ROCK BLVD. #14 RENO, NV 89502
(775) 507 7200

City of Sparks Rec Center Restroom ADA Upgrades

City of Sparks

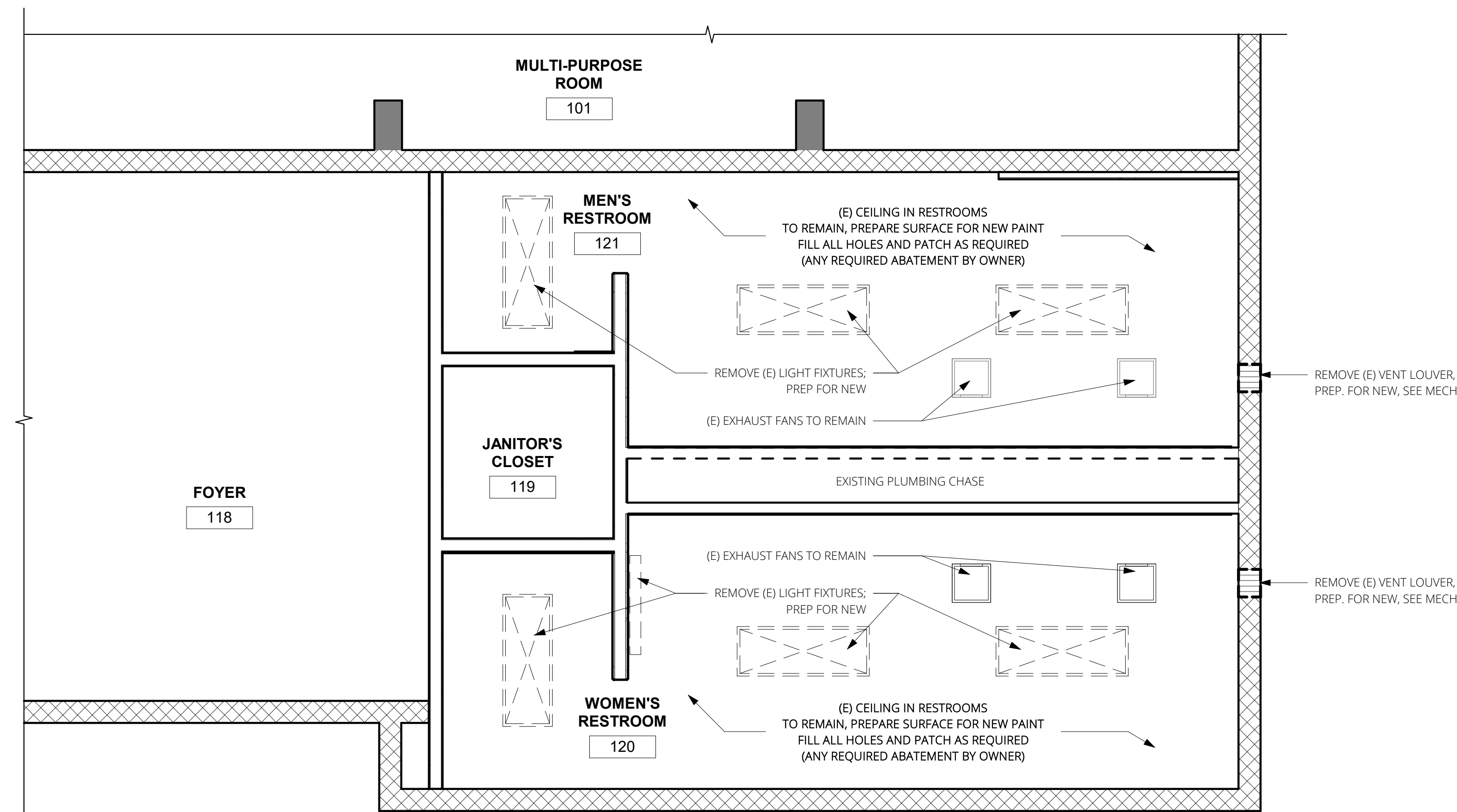
98 Richards Way
Sparks NV 89431



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2018-19

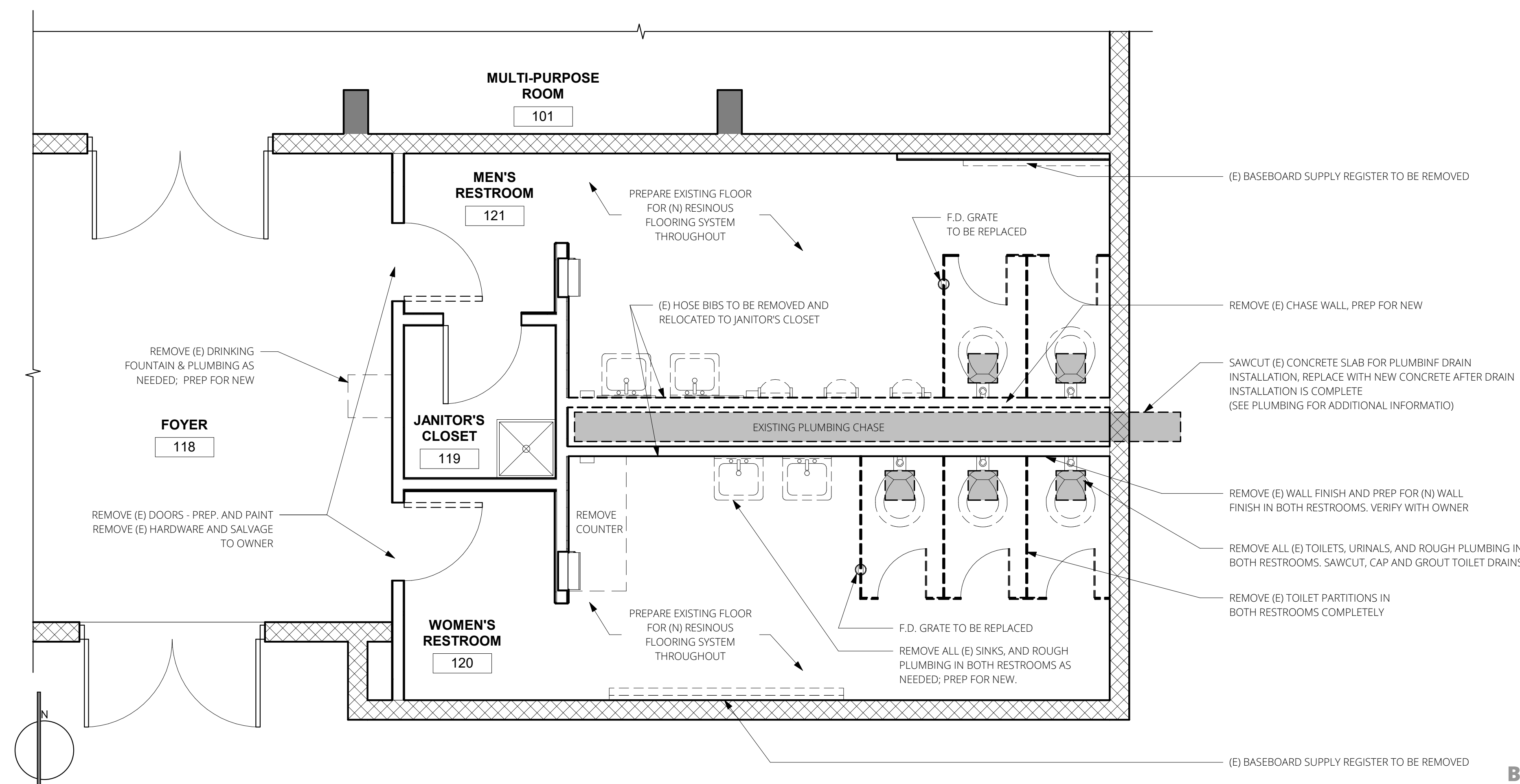
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DEMOLITION NOTES

1. FULL OWNER OCCUPANCY WILL EXIST DURING ENTIRE PERIOD OF CONSTRUCTION. CONTRACTOR SHALL COOPERATE FULLY WITH THE OWNER OR HIS REPRESENTATIVE DURING CONSTRUCTION TO MINIMIZE CONFLICTS AND TO FACILITATE OWNER USAGE.
2. CONTRACTOR SHALL LIMIT USE OF THE PREMISES TO THE WORK INDICATED, SO AS TO ALLOW FOR OWNER OCCUPANCY AND USE BY THE PUBLIC. CONFINE OPERATIONS TO AREAS PERMITTED. PORTIONS OF THE SITE BEYOND AREAS IN WHICH WORK IS INDICATED ARE NOT TO BE DISTURBED, OR ACCESSED.
3. ALL PHASES OF CONSTRUCTION SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE; CONTRACTOR SHALL NOTIFY OWNER 7 DAYS IN ADVANCE OF ANY SERVICE SHUT DOWN AND COMMENCEMENT OF NEW PHASE.
4. CONTRACTOR SHALL TAKE GREAT CARE DURING CONSTRUCTION TO PROVIDE DUST CONTROL, PROPER EXITING, AND IN GENERAL, THE SAFETY AND WELL BEING OF THE OCCUPANTS AND GENERAL PUBLIC TO KEEP BUSINESS OPERATIONAL.
5. NOISE, FUMES, AND ODORS SHALL BE CONTROLLED BY THE USE OF TEMPORARY PARTITIONS OR OTHER ACCEPTABLE METHODS. NO GAS OPERATED EQUIPMENT SHALL BE USED WITHIN 25 FEET OF AN AIR INTAKE.
6. ALL REQUIRED SHORING AND SAFETY OF THE BUILDING STRUCTURE DURING DEMOLITION AND/OR CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. PROTECT ALL BUILDING FIREPROOFING AND INSULATION NOT INDICATED TO BE REMOVED. CONTRACTOR/SUBCONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING MATERIAL.
8. PROTECT EXISTING WALL, CEILING, AND FLOOR FINISHES INDICATED TO REMAIN SO EXISTING FINISHES ARE NOT DAMAGED. CONTRACTOR /SUBCONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF SUCH.
9. THE OWNER SHALL HAVE THE OPTION TO KEEP ALL EQUIPMENT, LIGHTS AND SIGNS, AND OTHER ITEMS INDICATED TO BE REMOVED. IF THE OWNER CHOOSES NOT TO DO SO, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SUCH.
10. CONTRACTOR SHALL COORDINATE ALL DISRUPTIONS TO ALARM SYSTEMS NECESSARY FOR DEMOLITION AND CONSTRUCTION WITH THE OWNER'S REPRESENTATIVE. COORDINATION SHALL TAKE PLACE PRIOR TO ACTUAL COMMENCEMENT OF WORK. SEE NOTE 3 FOR TIME PERIOD.
11. ALL CONTRACTORS SHALL SUBMIT MATERIALS SAFETY DATA SHEET (MSDS) SHEETS FOR MATERIALS TO BE INSTALLED PRIOR TO EACH MATERIALS INSTALLATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INFORM THEIR CREW OF PROPER HANDLING AND INSTALLATION OF SUCH MATERIALS. ONE COPY SHALL BE DISTRIBUTED DIRECTLY TO THE CAMPUS HAZARDOUS MATERIALS OFFICIAL.
12. **EXERCISE DUE CAUTION** TO PREVENT ACCIDENTAL OR INCIDENTAL POWER LOSS, OR DISRUPTION OF UTILITIES.
13. ANY DEVICE WHICH IS TAGGED WITH AN OSHA SAFETY TAG SHALL BE LEFT AS FOUND. CONTACT THE OWNER'S REPRESENTATIVE TO COORDINATE OSHA LOCK OUT AND TAG OFF PROCEDURES.
14. CONTRACTOR SHALL PROVIDE FOR FIRE SAFETY AT ALL TIMES DURING CONSTRUCTION. ANY OPERATIONS UTILIZING TORCHES OR OTHER HEAT PRODUCING EQUIPMENT SHALL HAVE FIRE EXTINGUISHER PRESENT AT ALL TIMES.
15. DOORS SHALL REMAIN CLOSED AT ALL TIMES EXCEPT DURING LOADING OF MATERIALS.

② FRONT ENTRY RESTROOM - REFLECTED CEILING DEMOLITION PLAN
3/8" = 1'-0"



① FRONT ENTRY RESTROOM DEMOLITION PLAN
3/8" = 1'-0"

DEMOLITION PLANS

a100

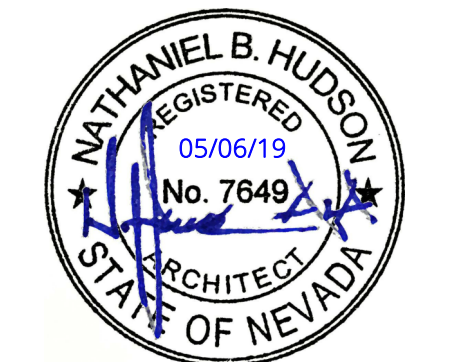


FORM GREY
STUDIO
650 S. ROCK BLVD. #14 RENO, NV 89502
(775) 507 7200

City of Sparks Rec Center
Restroom ADA Upgrades

City of Sparks

98 Richards Way
Sparks NV 89431



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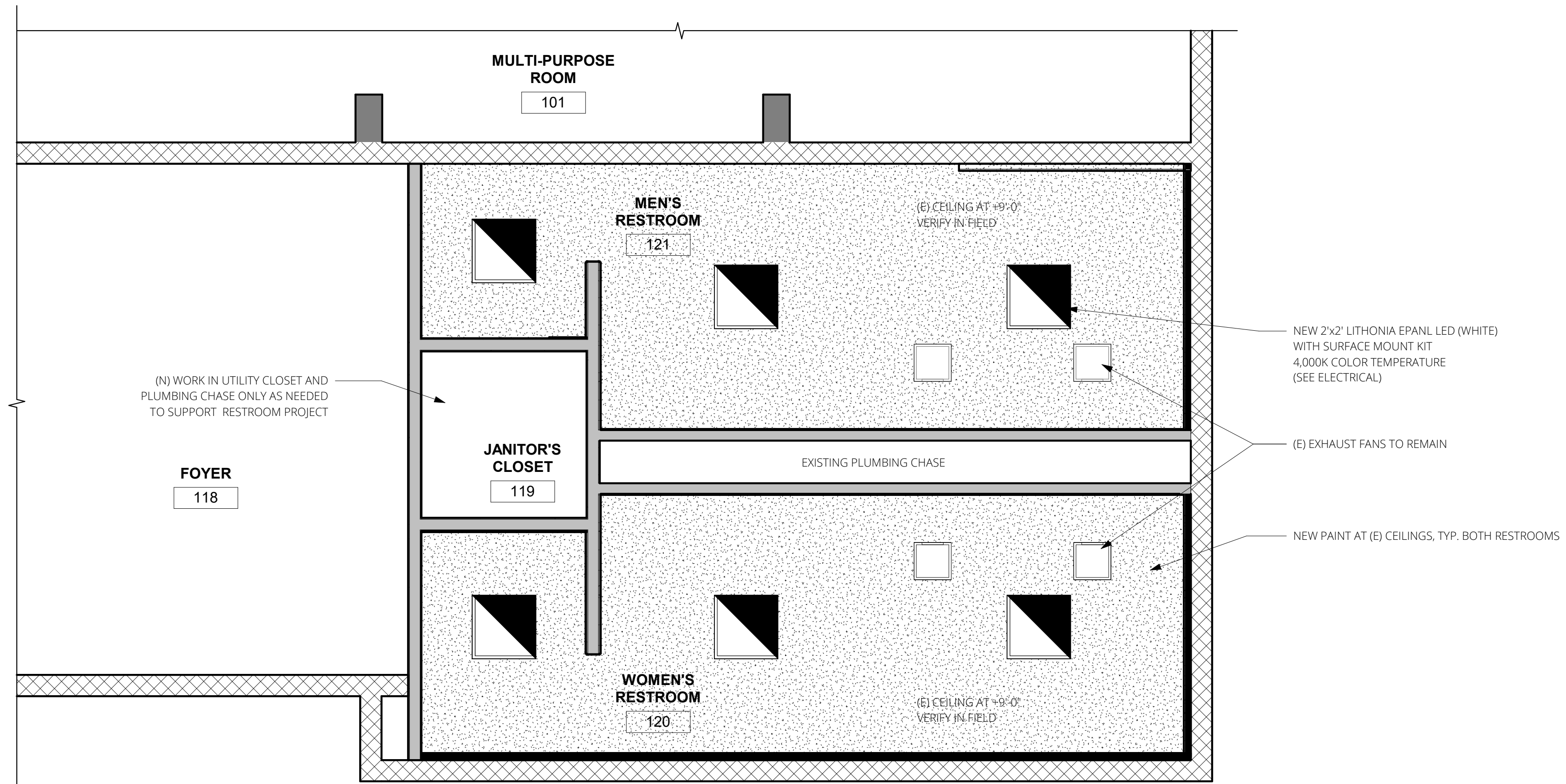
DOOR SCHEDULE									
#	ROOM #	WIDTH	HEIGHT	MATERIAL	FINISH	HARDWARE	FRAME MATERIAL	FRAME FINISH	COMMENTS
1	WOMEN'S RESTROOM	3'-0"	6'-8"	S.C. WOOD	PAINT		HOLLOW METAL	PAINT	RE-USE AND RE-FINISH EXISTING DOOR
2	MEN'S RESTROOM	3'-0"	6'-8"	S.C. WOOD	PAINT		HOLLOW METAL	PAINT	RE-USE AND RE-FINISH EXISTING DOOR

Grand total: 2

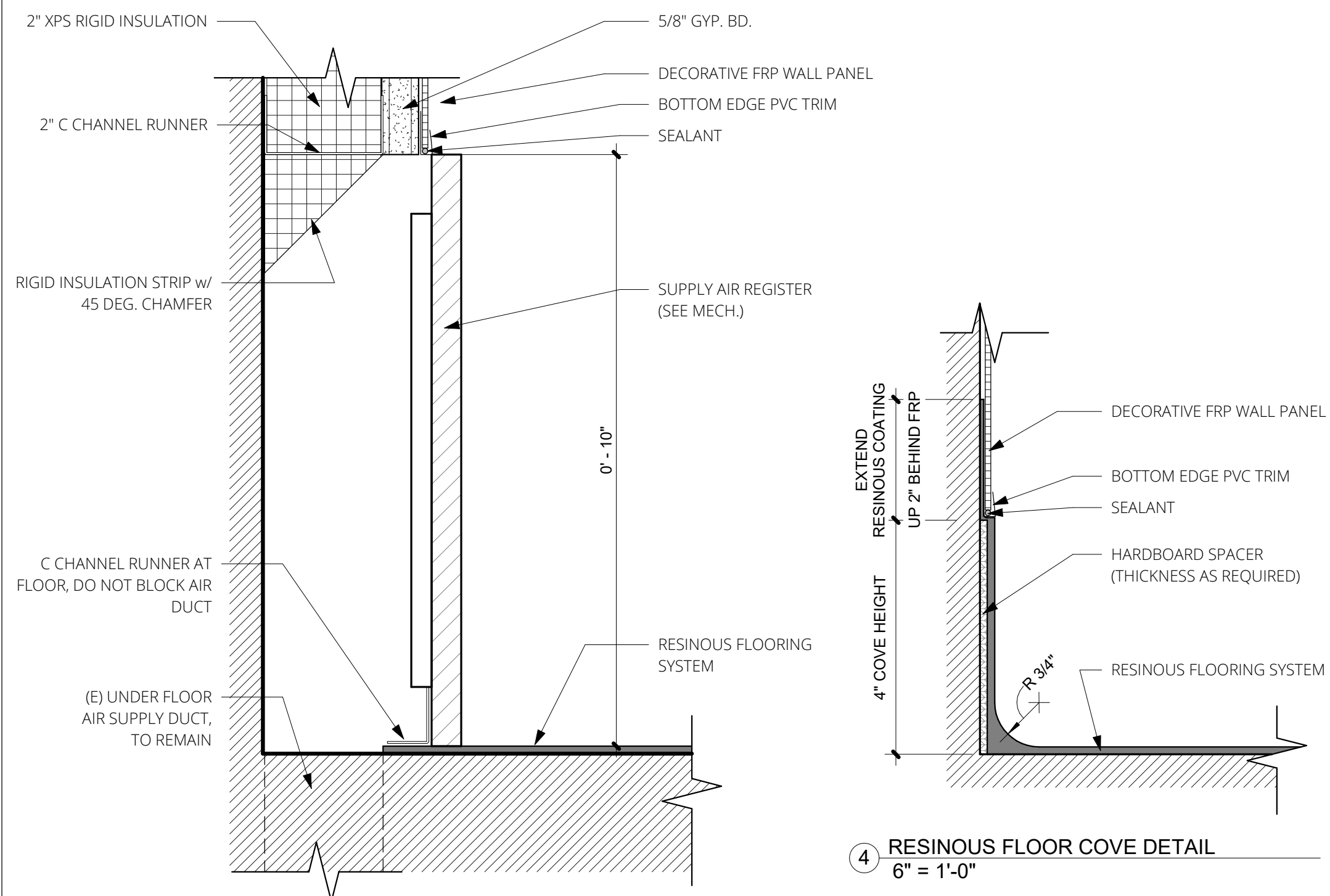
DOOR HARDWARE SCHEDULE					
Number	Item	Description	Manufacturer	Finish	Comments
40	HINGES, PAIR	4.5 X 4.5 CB1901 X 601	HAGER OR STANLEY	626	
41	HANDLE, LATCH AND STRIKE	ND707D X RHODES S 626	SCHLAGE	626	
42	SMOKE SEAL	S88BL	PEMKO		
43	FLOOR STOP	FS444 S US26D	IVES	626	
44	PUSH PLATE	30S	HAGER	626	4"x16"
45	PULL PLATE	33E	HAGER	626	4"x16"
46	CLOSER	4041 SUPER SMOOTHIE ADJUSTABLE CLOSER	LCN	ALUMINUM	
47	KICK PLATE	34" x 8"	EVERBILT	STAINLESS STEEL	BOTH SIDES OF DOOR

NOTE: CONTRACTOR TO REMOVE EXISTING DOOR HARDWARE AND RETURN TO OWNER IF REQUESTED.

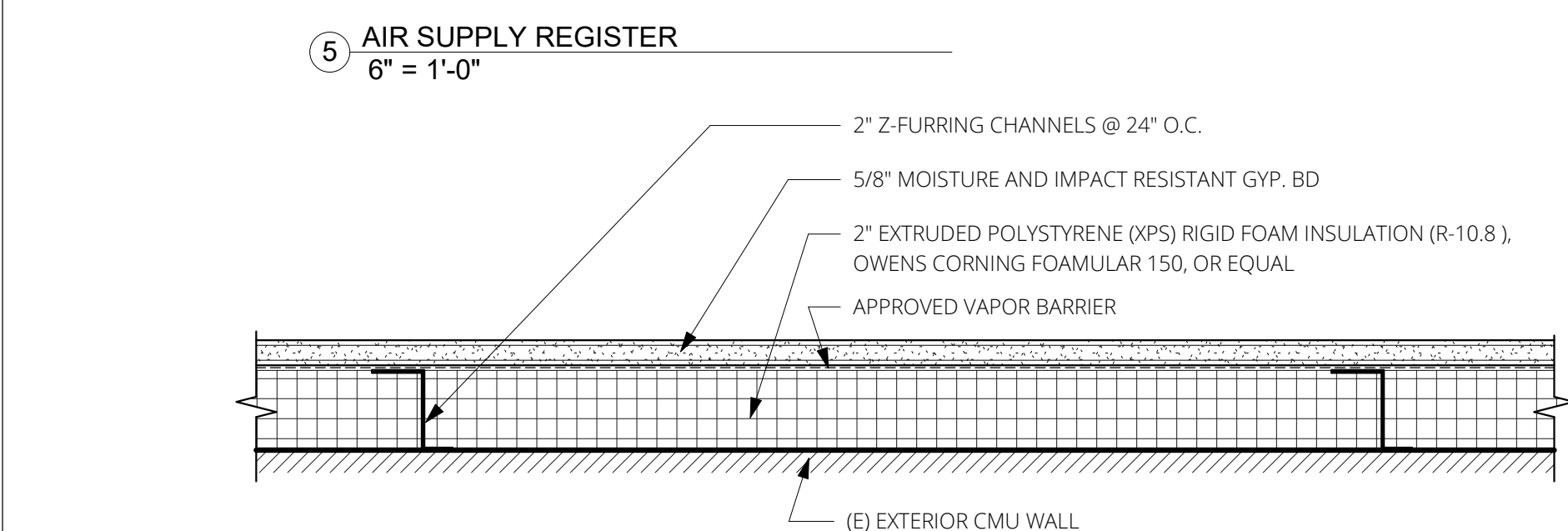
FINISH MATERIALS	
FLOOR	F-1: RESINOUS FLOORING, HYBRI-FLEX EC FLOORING SYSTEM OR EQUAL CHIP COLOR AND SIZE TO BE VERIFIED BY OWNER
BASE	B-1: RESINOUS FLOORING INTEGRATED COVE BASE, 4" HIGH
CEILING	C-1: EXISTING CEILING TO BE PATCHED, REPAIRED AND OTHERWISE PREPARED FOR NEW PAINT. SHERWIN WILLIAMS INTERIOR ACRYLIC LATEX SEMI-GLOSS, SW1011 WHITE
WALL	W-1: DECORATIVE FRP WALL PANELS - FULL HEIGHT TO CEILING COLOR: WHITE
	W-2: SHERWIN WILLIAMS INTERIOR ACRYLIC LATEX SEMI-GLOSS, SW1011 WHITE



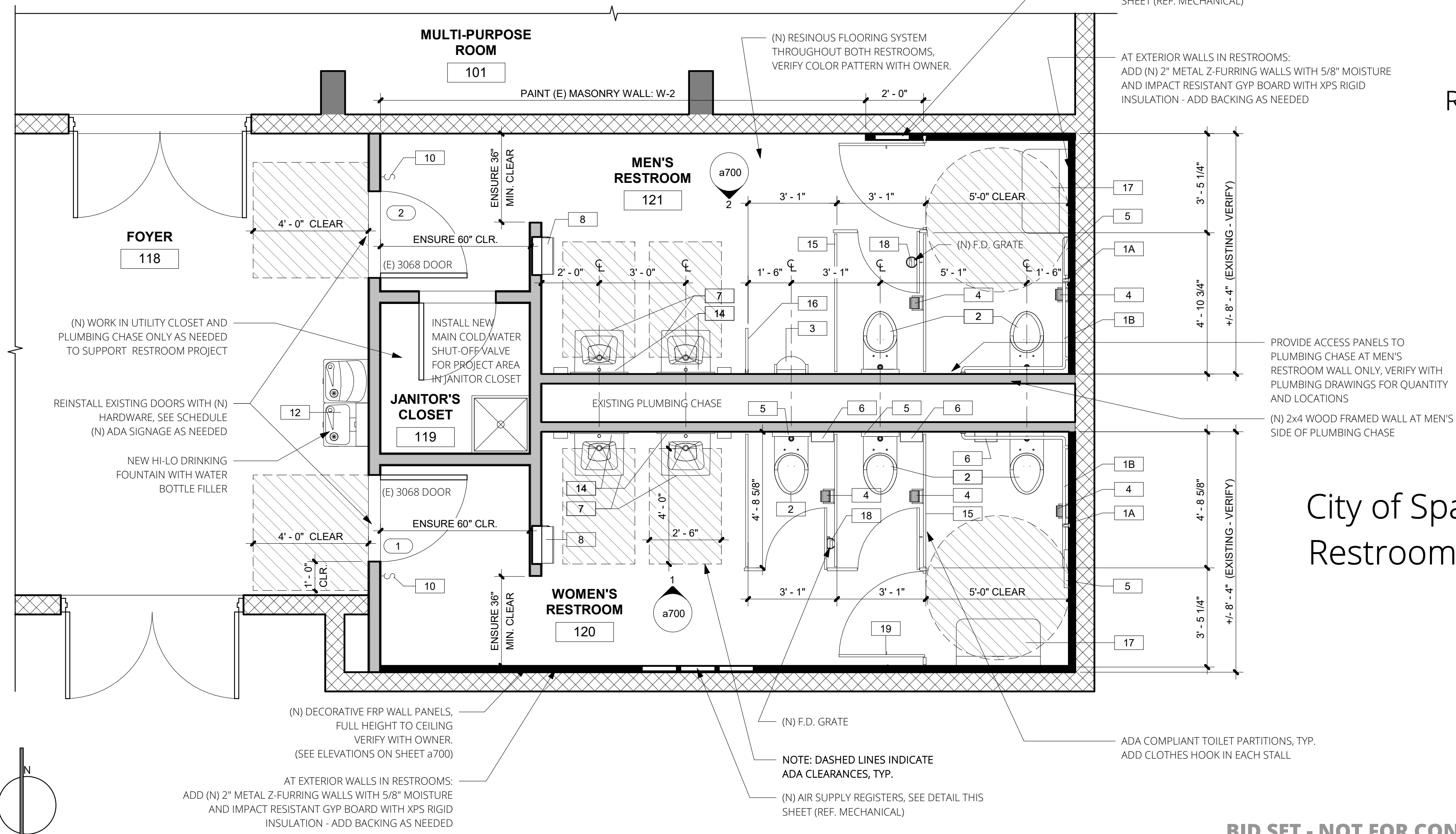
2 FRONT ENTRY RESTROOM - REFLECTED CEILING PLAN
3/8" = 1'-0"



4 RESINOUS FLOOR COVE DETAIL
6" = 1'-0"



3 FURRED WALL WITH INSULATION
3" = 1'-0"



1 FRONT ENTRY RESTROOM FLOOR PLAN - ADA UPGRADES
3/8" = 1'-0"

FLOOR PLAN /
REFLECTED CEILING
PLAN

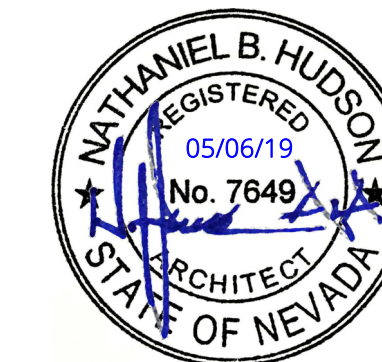
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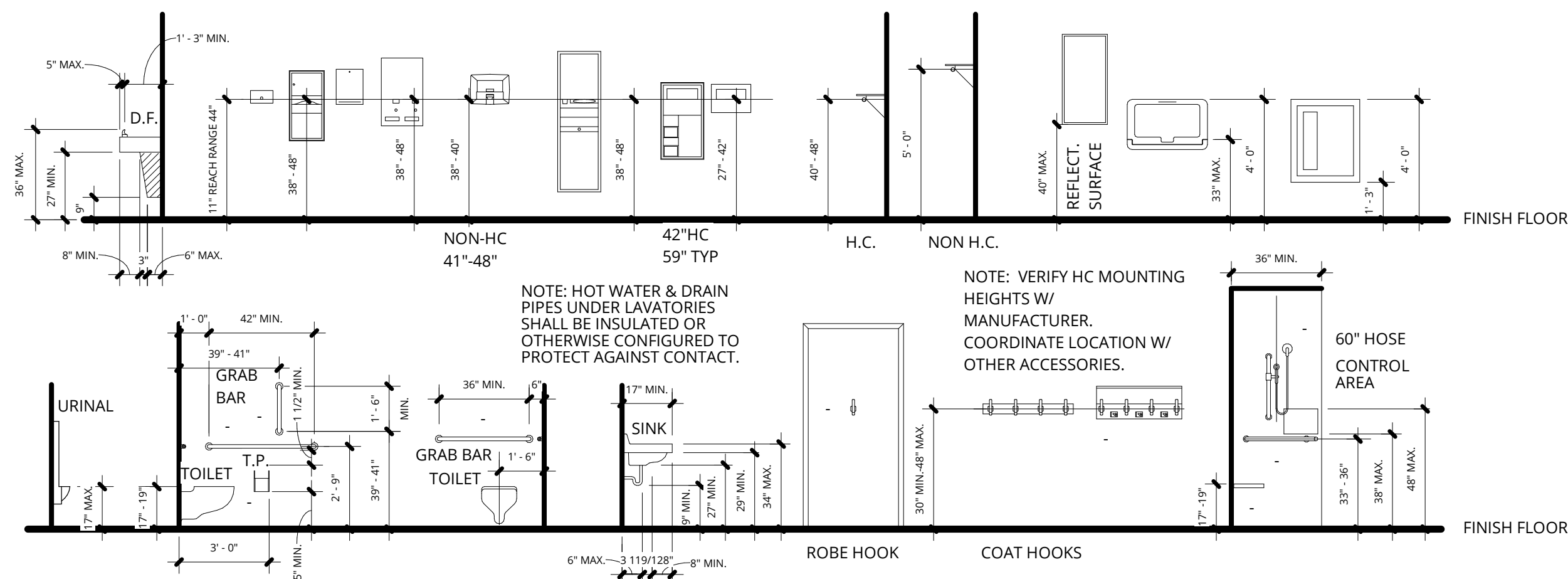
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STUDIO
650 S. ROCK BLVD. #14 RENO, NV 89502
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City of Sparks Rec Center
Restroom ADA Upgrades

City of Sparks
98 Richards Way
Sparks NV 89431



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6 TYPICAL ACCESSORY MOUNTING HEIGHTS - 2010 ADA
1/4" = 1'-0"

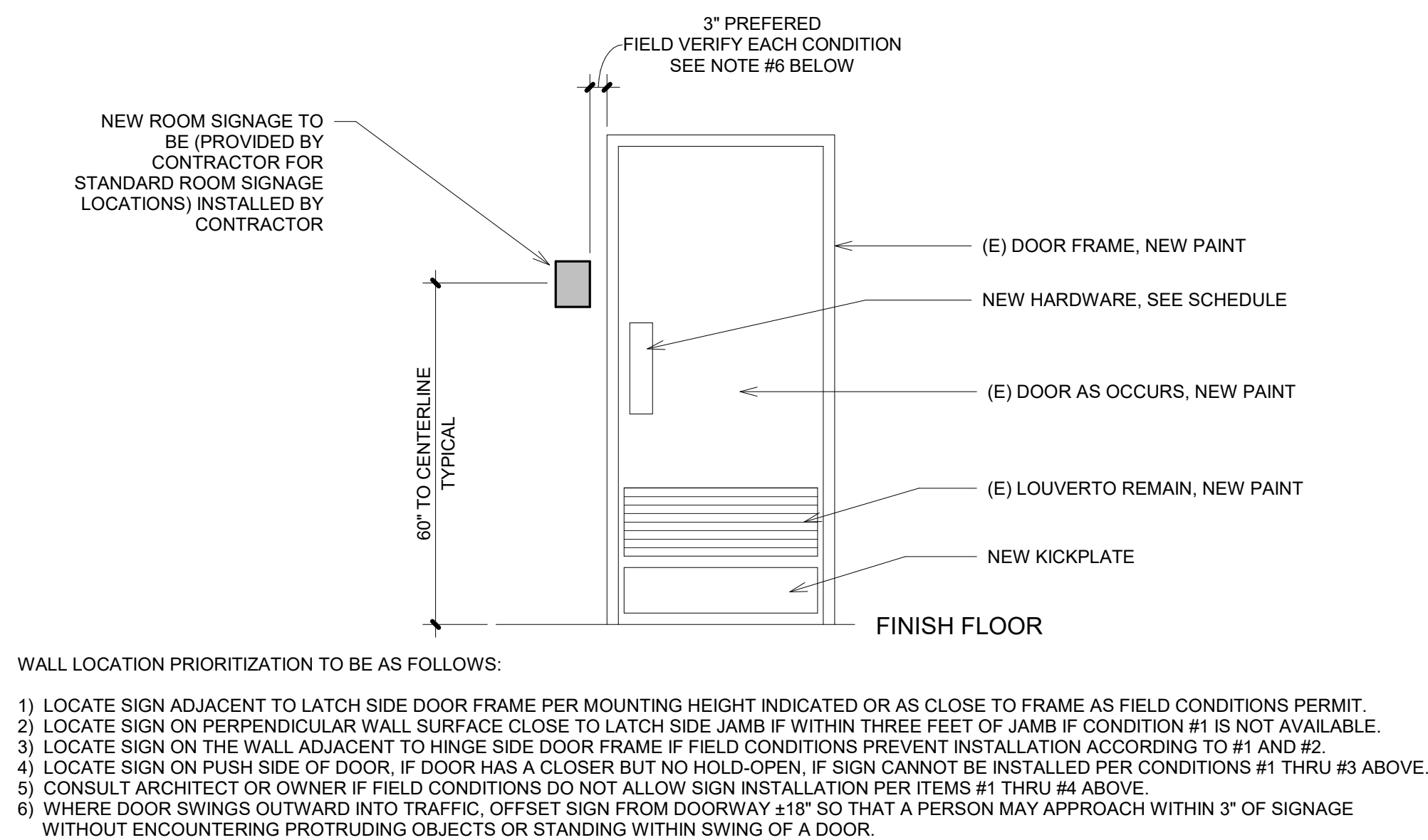
Type Mark	Count	Description	Manufacturer	Model	Fixture Finish	Comments
1A	2	18" GRAB BAR	BOBRICK	B-5806 x 18	TYPE 304 SS, SATIN FINISH	OR APPROVED EQUAL
1B	2	COMBO GRAB BAR	BOBRICK	B-5887	TYPE 304 SS, SATIN FINISH	OR APPROVED EQUAL
2	5	ACCESSIBLE WATER CLOSET	AMERICAN STANDARD	2257.101 AFWALL, 1.6 GPF	PER MFR.	ZURN CARRIER; SLOAN FLUSH VALVE (MODEL: ROYAL 111-1.6 ES-S OR EQUAL); CENTOCO SEAT (MODEL: 500)
3	1	ACCESSIBLE URINAL	AMERICAN STANDARD	8590.001 "WASHBROOK"	PER MFR.	ZURN CARRIER; SLOAN FLUSH VALVE (MODEL: 180-1-ES-S OR EQUAL)
4	5	ACCESSIBLE TOILET PAPER DISPENSER	BOBRICK	B-2840	TYPE 304 SS, SATIN FINISH	
5	5	ACCESSIBLE TOILET SEAT COVER DISPENSER	BOBRICK	B-4221	TYPE 304 SS, SATIN FINISH	
6	3	ACCESSIBLE SANITARY NAPKIN DISPOSAL	BOBRICK	B-4353	TYPE 304 SS, SATIN FINISH	
7	4	ACCESSIBLE LAVATORY SINK	KOHLER	K-2035-1-0 "WHITE"	PER MFR.	SLOAN ELECTRONIC FAUCET (MODEL: EAF-100) W/ UNDER-LAVATORY SCALD GUARDS
8	2	ACCESSIBLE PAPER TOWEL DISPENSER & WASTE RECEPTACLE	BOBRICK	B-4369	TYPE 304 SS, SATIN FINISH	
9	4	ACCESSIBLE SOAP DISPENSER	PER OWNER	PER OWNER	PER OWNER	SOAP DISPENSERS PROVIDED AND INSTALLED BY OWNER
10	2	LIGHT SWITCH	LEVITON OR EQUAL		PER MFR.	STANDARD SINGLE-POLE AC QUIET SWITCH (WHITE) NO MOTION DETECTION
12	1	Mechanical pushbar actuated water cooler	Elkay Manufacturing	VRCTLR8WSK	STAINLESS STEEL	WITH BOTTLE FILLER
14	4	LAVATORY MIRROR	BOBRICK	B-290 1830	TYPE 304 SS, SATIN FINISH	18"x30" STAINLESS STEEL, SATIN FINISH - WELDED FRAME MIRROR
15	4	TOILET PARTITIONS	HADRIAN		TYPE 304 SS, EMBOSSED FINISH	STANDARD SERIES, HEADRAIL BRACED
16	1	URINAL SCREEN	HADRIAN		TYPE 304 SS, EMBOSSED FINISH	STANDARD SERIES, WALL MOUNTED
17	2	CHANGING STATION	KOALA KARE PRODUCTS	KB200-00	PER MFR.	HORIZONTAL WALL MOUNTED, COLOR 00 CREAM
18	2	INLINE FLOOR DRAIN TRAP SEALER	RECTOR SEAL	2" SURE SEAL	PER MFR.	INSTALL NEW FLOOR DRAIN TRAP SEAL IN (E) FLOOR DRAIN
19	1	COAT HOOK/ROBE HOOK	BOBRICK	B-7672	TYPE 304 SS, SATIN FINISH	INSTALL COAT/ROBE HOOK AT EACH TOILET PARTITION DOOR

SIGNAGE NOTES:

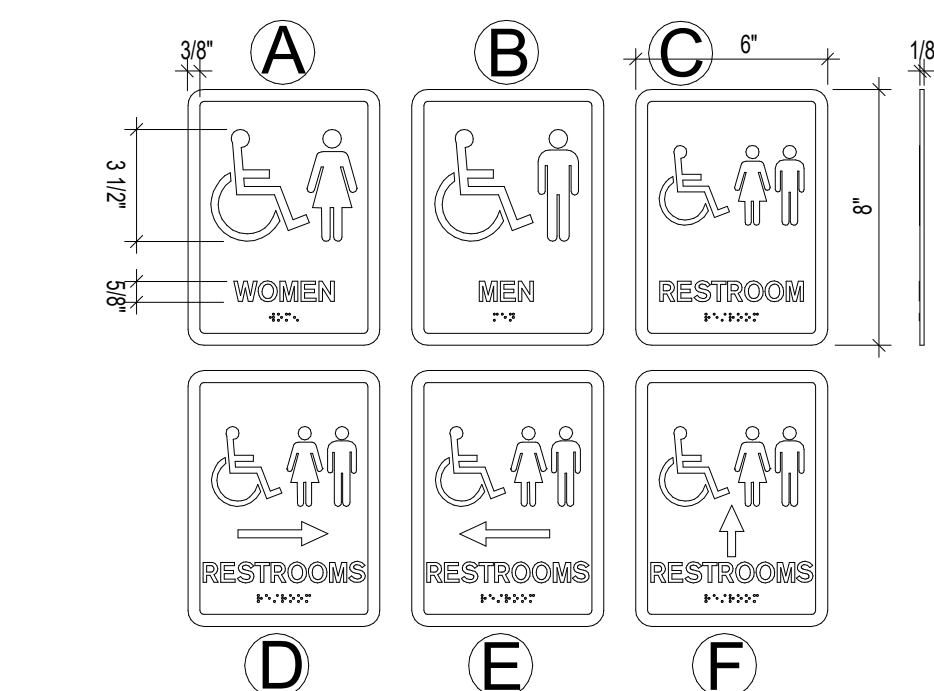
- ALL SIGNAGE WILL BE PROVIDED BY CONTRACTOR.
- CONTRACTOR TO COORDINATE WITH OWNER CONFIGURATION, LOCATION AND SIZE OF ALL SIGNAGE.

TOILET ROOM & ACCESSORIES NOTES:

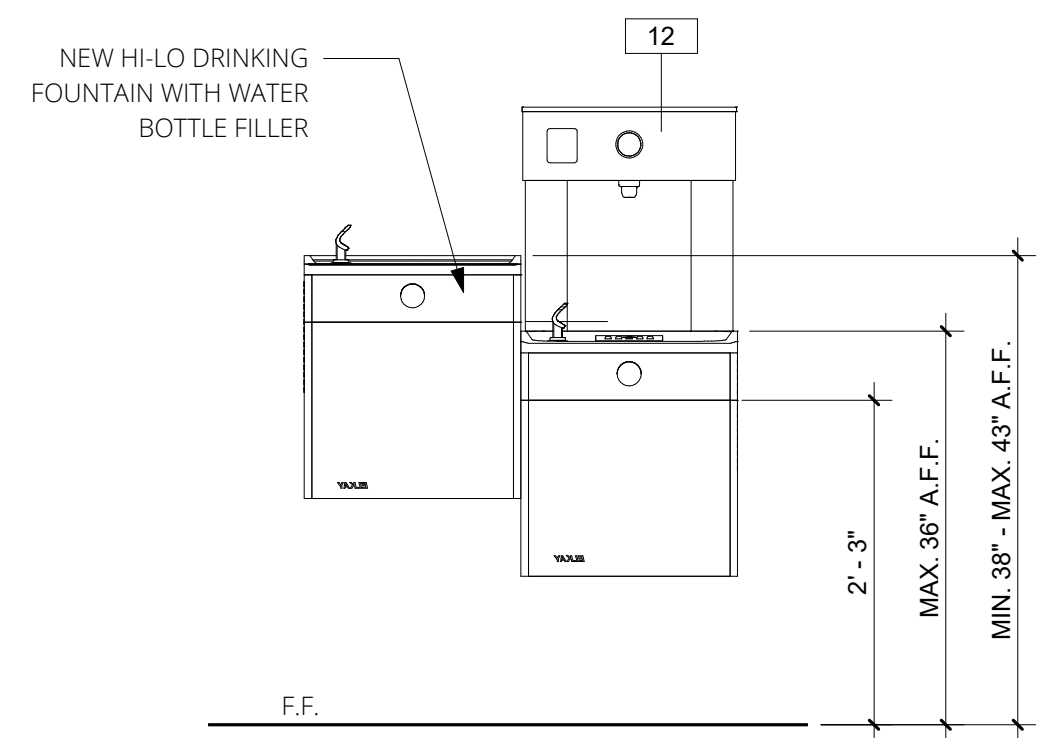
- ALL NEW ACCESSORIES ARE TO MATCH EXISTING ITEMS IN NEWLY REMODELED TOILET ROOMS WHENEVER POSSIBLE
- ALL NEW PLUMBING FIXTURES ARE TO MATCH EXISTING ITEMS IN NEWLY REMODELED TOILET ROOMS WHENEVER POSSIBLE
- FIXTURES AND ACCESSORIES ARE NOTED ON PLANS, NOT ALL MAY BE NOTED OR SHOWN ON ALL PLANS AND ELEVATIONS. REFER TO PLANS, SPECIFICATIONS AND ADA DIMENSIONS FOR MOUNTING CONFIGURATIONS AND LOCATIONS
- CONTRACTOR TO VERIFY W/OWNER ALL MANUFACTURER AND MODELS OF ACCESSORIES MATCH EXISTING PRIOR TO ORDERING



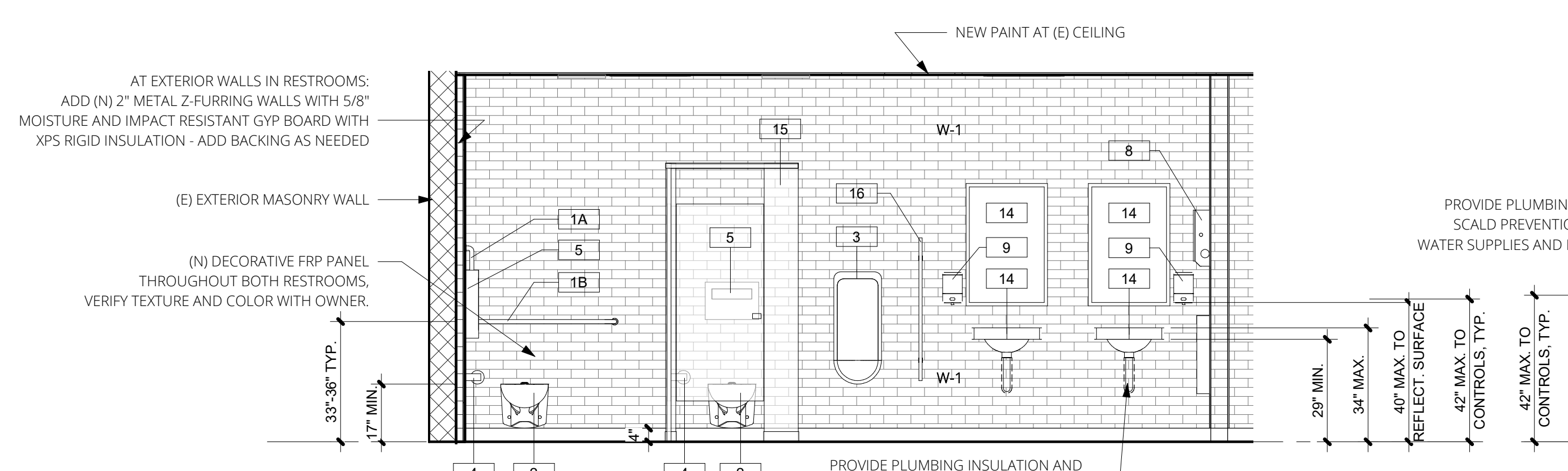
5 ADA SIGNAGE MOUNTING
1/2" = 1'-0"



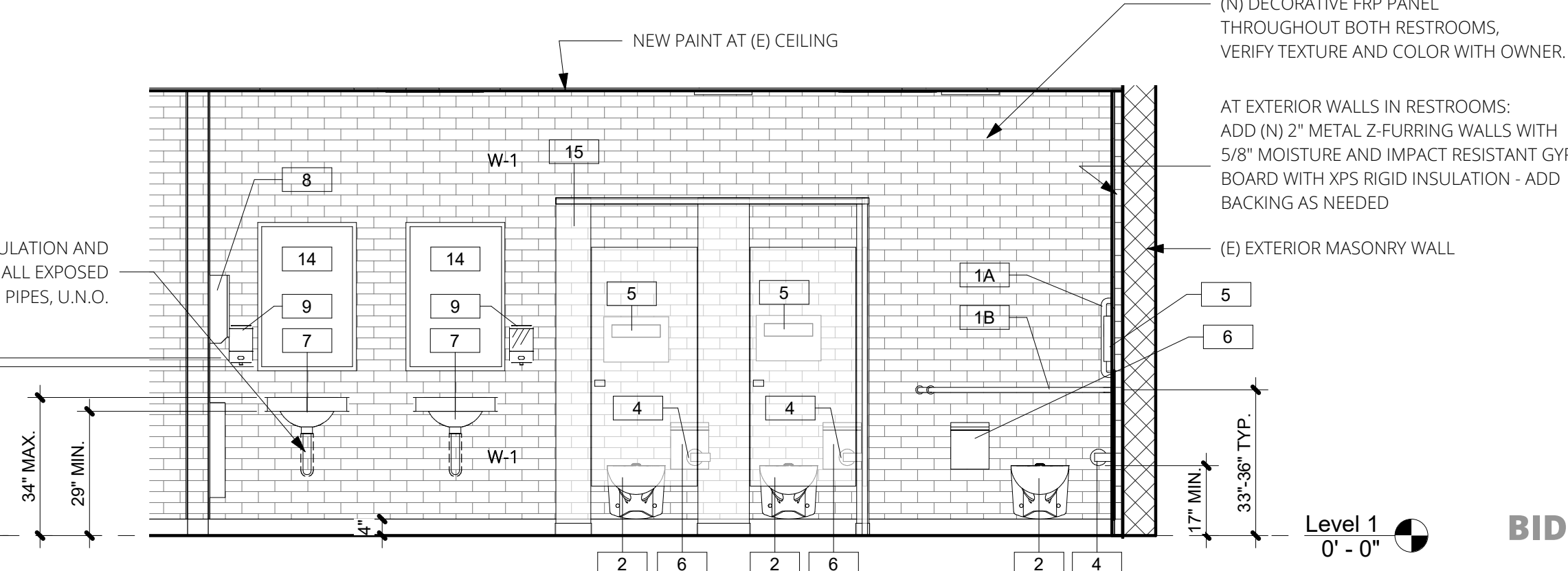
4 INTERIOR ADA SIGNAGE
N.T.S



3 NEW DRINKING FOUNTAIN ELEVATION
3/4" = 1'-0"



2 INTERIOR ELEVATION - MEN'S RESTROOM
3/8" = 1'-0"



1 INTERIOR ELEVATION - WOMEN'S RESTROOM
3/8" = 1'-0"

2010 ADA

State and local government facilities must follow the requirements of the 2010 Standards, including both the Title II regulations at 28 CFR 35.151; and the 2004 ADAAG at 36 CFR part 1191, appendices B and D. In the few places where requirements between the two differ, the requirements of 28 CFR 35.151 prevail. If the start date for construction is on or after March 15, 2012, all newly constructed or altered State and local government facilities must comply with the 2010 Standards. The 2010 Standards apply to fixed or built-in elements of buildings, structures, site improvements, and pedestrian routes or vehicular ways located on a site.

Any alteration to a place of public accommodation or a commercial facility, after January 26, 1992, shall be made so as to ensure that, to the maximum extent feasible, the altered portions of the facility are readily accessible to and usable by individuals with disabilities, including individuals who use wheelchairs.

An alteration that affects or could affect the usability of or access to an area of a facility that contains a primary function shall be made so as to ensure that, to the maximum extent feasible, the path of travel to the altered area and the restrooms, telephones, and drinking fountains serving the altered area, are readily accessible to and usable by individuals with disabilities, including individuals who use wheelchairs, unless the cost and scope of such alterations is disproportionate to the cost of the overall alteration. A "path of travel" includes a continuous, unobstructed way of pedestrian passage by means of which the altered area may be approached, entered, and exited, and which connects the altered area with an exterior approach (including sidewalks, streets, and parking areas), an entrance to the facility, and other parts of the facility. For the purposes of this term, the term "path of travel" also includes the restrooms, telephones, and drinking fountains serving the altered area. Alterations made to provide an accessible path of travel to the altered area will be deemed disproportionate to the overall alteration when the cost exceeds 20% of the cost of the alteration to the primary function area.

The phrase "to the maximum extent feasible," as used in this section, applies to the occasional case where the nature of an existing facility makes it virtually impossible to comply fully with applicable accessibility standards through a planned alteration. In these circumstances, the alteration shall provide the maximum physical accessibility feasible. Any altered features of the facility that can be made accessible shall be made accessible. If providing accessibility in conformance with this section to individuals with certain disabilities (e.g., those who use wheelchairs) would not be feasible, the facility shall be made accessible to persons with other types of disabilities (e.g., those who use crutches, those who have impaired vision or hearing, or those who have other impairments).

Alterations. Where existing elements or spaces are altered, each altered element or space shall comply with the applicable requirements of Chapter 2.

EXCEPTIONS:

- Unless required by 202.4, where elements or spaces are altered and the circulation path to the altered element or space is not altered, an accessible route shall not be required.
- In alterations, where compliance with applicable requirements is technically infeasible, the alteration shall comply with the requirements to the maximum extent feasible.

Alterations Affecting Primary Function Areas. In addition to the requirements of 202.3, an alteration that affects or could affect the usability of or access to an area containing a primary function shall be made so as to ensure that, to the maximum extent feasible, the path of travel to the altered area, including the rest rooms, telephones, and drinking fountains serving the altered area, are readily accessible to and usable by individuals with disabilities, unless such alterations are disproportionate to the overall alterations in terms of cost and scope as determined under criteria established by the Attorney General.

Employee Work Areas. Spaces and elements within employee work areas shall only be required to comply with 206.2.8, 207.1, and 215.3 and shall be designed and constructed so that individuals with disabilities can approach, enter, and exit the employee work area. Employee work areas, or portions of employee work areas, ... shall not be required to comply with these requirements or to be on an accessible route.

Site Arrival Points. At least one accessible route shall be provided within the site from accessible parking spaces and accessible passenger loading zones; public streets and sidewalks; and public transportation stops to the accessible building or facility entrance they serve. Access from site arrival points may include vehicular ways.

ADA ACCESSIBILITY NOTES

- FLUSH CONTROLS:** FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH SECTION 309. HAND OPERATED FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET, NO MORE THAN 44" ABOVE THE FLOOR. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NOT GREATER THAN 5 POUNDS-FORCE.
- DISPENSERS:** TOILET PAPER DISPENSERS SHALL COMPLY WITH SECTION 309.4. WHERE THE DISPENSER IS LOCATED ABOVE THE GRAB BAR, THE OUTLET OF THE DISPENSER SHALL BE LOCATED WITHIN AN AREA 24" MINIMUM AND 36" MAXIMUM FROM THE REAR WALL. WHERE THE DISPENSER IS LOCATED BELOW THE GRAB BAR, THE OUTLET OF THE DISPENSER SHALL BE LOCATED WITHIN AN AREA 24" MINIMUM AND 42" MAXIMUM FROM THE REAR WALL. THE OUTLET OF THE DISPENSER SHALL BE LOCATED 18" MINIMUM AND 48" MAXIMUM ABOVE THE FLOOR. DISPENSERS SHALL COMPLY WITH SECTION 609.3. DISPENSERS SHALL NOT BE OF THE TYPE THAT CONTROL DELIVERY, OR DO NOT ALLOW CONTINUOUS PAPER FLOW.
- SEATS:** SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION. WATER CLOSET SEATS SHALL BE OF SMOOTH, NON-ABSORBENT MATERIAL; SHALL BE OF THE OPEN FRONT TYPE; SHALL BE PROPERLY SIZED FOR THE WATER CLOSET BOWL TYPES. (IPC 420.3)
- WHEELCHAIR ACCESSIBLE COMPARTMENTS:** MINIMUM AREA OF WHEELCHAIR ACCESSIBLE COMPARTMENT SHALL BE 60" MINIMUM IN WIDTH MEASURED PERPENDICULAR TO THE SIDE WALL, AND 56" MINIMUM IN DEPTH FOR WALL HUNG WATER CLOSETS, AND 59" MINIMUM IN DEPTH FOR FLOOR MOUNTED WATER CLOSETS MEASURED PERPENDICULAR TO THE REAR WALL
- DOORS:** TOILET COMPARTMENT DOORS, INCLUDING DOOR HARDWARE, SHALL COMPLY WITH SECTION 404, EXCEPT IF THE APPROACH IS TO THE LATCH SIDE OF THE COMPARTMENT DOOR CLEARANCE BETWEEN THE DOOR SIDE OF THE STALL AND ANY OBSTRUCTIONS SHALL BE 42" MINIMUM. THE DOOR SHALL BE SELF-CLOSING. A DOOR PULL COMPLYING WITH SECTION 404.2.6 SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH. TOILET COMPARTMENT DOORS SHALL NOT SWING INTO THE REQUIRED MINIMUM AREA OF THE COMPARTMENT.
- DOOR OPENING LOCATION:** THE FARTHEST EDGE OF THE TOILET COMPARTMENT DOOR OPENING SHALL BE LOCATED IN THE FRONT WALL OR PARTITION OR IN THE SIDE WALL OR PARTITION AS REQUIRED BY TABLE 604.9.3.1.
- APPROACH:** WHEELCHAIR ACCESSIBLE COMPARTMENTS SHALL BE ARRANGED FOR LEFT-HAND OR RIGHT-HAND APPROACH TO THE WATER CLOSET.
- FAUCETS:** FAUCETS SHALL COMPLY WITH SECTION 309. HAND-OPERATED METERING FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MINIMUM.
- LAVATORIES WITH ENHANCED REACH RANGE:** WHERE ENHANCED REACH RANGE IS REQUIRED AT LAVATORIES, FAUCETS AND SOAP DISPENSER CONTROLS SHALL HAVE A REACH DEPTH OF 11" MAXIMUM OR, IF AUTOMATIC, SHALL BE ACTIVATED WITHIN A REACH DEPTH 11" MAXIMUM. WATER AND SOAP FLOW SHALL BE PROVIDED WITH A REACH DEPTH OF 11" MAXIMUM.
- URINALS:** ACCESSIBLE URINALS SHALL COMPLY WITH SECTION 605.
- URINAL FLUSH CONTROLS:** FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC; HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH SECTION 309.
- GRAB BARS:** GRAB BARS SHALL COMPLY WITH SECTION 609. SIDE WALL GRAB BARS COMPLYING WITH SECTION 604.2.1 LOCATED ON THE WALL CLOSEST TO THE WATER CLOSET, AND A REAR WALL GRAB BAR COMPLYING WITH SECTION 604.5.2 SHALL BE PROVIDED.
- TOILET ROOM FLOORS:** FLOORS SHALL HAVE A STABLE, FIRM, SLIP RESISTANT SURFACE. (UNITED STATES ACCESS BOARD 302.1).

INTERIOR ELEVATIONS
and ADA MOUNTING
HEIGHTS

a700



FORM GREY
STUDIO
650 S. ROCK BLVD. #14 RENO, NV 89502
(775) 507 7200

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Restroom ADA Upgrades

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98 Richards Way
Sparks NV 89431



BID SET - NOT FOR CONSTRUCTION 10/21/2019

MECHANICAL SYMBOL LIST

(NOTE: ALL OF THE SYMBOLS INDICATED BELOW MAY NOT APPEAR ON THIS PROJECT)

	DUCT W/ SIZE INDICATED (FIRST FIG. IS SIDE SHOWN)		BRANCH - BOTTOM CONNECTION
	V.D. MANUAL VOLUME / BALANCING DAMPER		BRANCH - SIDE CONNECTION
	DUCT WITH ACOUSTIC LINING		ARROW INDICATES DIRECTION OF FLOW
	F.D.R. FIRE DAMPER		A.P. ACCESS PANEL
	S.D. SMOKE DAMPER		MECHANICAL EQUIPMENT INDICATED (SEE SCHEDULE)
	F.S.D. COMBINATION FIRE / SMOKE DAMPER		PLUMBING FIXTURE SCHEDULE - (SEE PLUMBING SCHEDULE)
	EX. EXTRACTOR		DIFFUSER OR GRILLE INDICATED (SEE SCHEDULE)
	SQUARE TO ROUND DUCT TRANSITION		T. THERMOSTAT
	DUCT SIZE TRANSITION		S.E.N. SENSOR
	FLEXIBLE DUCT		S.D.I.E.T. SMOKE DETECTOR
	SPLITTER DAMPER		T.C.C. TEMPERATURE CONTROL PANEL
	T.V.'S. TURNING VANES		AFF. ABOVE FINISHED FLOOR
	S.A. SUPPLY AIR DUCT DOWN		AFG. ABOVE FINISHED GRADE
	S.A. SUPPLY AIR DUCT UP		BDD. BACKDRAFT DAMPER
	R.A. RETURN AIR DUCT DOWN		BHP. BRAKE HORSEPOWER
	R.A. RETURN AIR DUCT UP		BTUH. BRITISH THERMAL UNITS PER HOUR
	E.A. EXHAUST AIR DUCT DOWN		CFH. CUBIC FEET PER HOUR
	E.A. EXHAUST AIR DUCT UP		CFM. CUBIC FEET PER MINUTE
	M.D. MOTORIZED DAMPER		CLG. CEILING
	O.B.D. OPPOSED BLADE DAMPER		DB. DRY BULB TEMPERATURE
	RD. REFRIGERANT DISCHARGE PIPING		DN. DOWN
	RL. REFRIGERANT LIQUID PIPING		(E). EXISTING
	RS. REFRIGERANT SUCTION PIPING		EAT. ENTERING AIR TEMPERATURE
	S.T.R. STRAINER		ESP. EXTERNAL STATIC PRESSURE
	S.T.R. STRAINER WITH 3/4" HOSE END DRAIN VALVE		GA. GAUGE
	P.T.R. PRESSURE - TEMPERATURE RELIEF VALVE		GAL. GALLON
	RV. PRESSURE RELIEF VALVE		GPH. GALLONS PER HOUR
	2VAL. 2-WAY CONTROL VALVE		GPM. GALLONS PER MINUTE
	3VAL. 3-WAY CONTROL VALVE		HD. HEAD
	P.R.G. PRESSURE GAUGE WITH GAUGE COCK		HP. HORSEPOWER
	TH. THERMOMETER		HR. HOUR
	A.A.V. AUTOMATIC AIR VENT		HSPF. HEATING SYSTEM PERFORMANCE FACTOR
	M.A.V. MANUAL AIR VENT		KW. KILOWATTS
	V.B. VACUUM BREAKER		LAT. LEAVING AIR TEMPERATURE
	P.D. PIPING TEE DOWN		MAX. MAXIMUM
	P.U. PIPING TEE UP		MBH. BRITISH THERMAL UNITS PER HOUR (THOUSANDS)
	P.U. PIPING ELBOW UP		MIN. MINIMUM
	P.D. PIPING ELBOW DOWN		MOC. MAXIMUM OVER CURRENT PROTECTION
	BRANCH - TOP CONNECTION		MUA. MAKE-UP AIR
			(N). NEW
			NOM. NOMINAL
			OA. OUTSIDE AIR
			PD. PRESSURE DROP
			RPM. REVOLUTION PER MINUTE
			SF. SQUARE FEET
			SP. STATIC PRESSURE
			STD. STANDARD
			T. TEMPERATURE
			TYP. TYPICAL
			WB. WET BULB TEMPERATURE
			WC. WATER COLUMN
			W.P.D. WATER PRESSURE DROP

GENERAL MECHANICAL NOTES

- CONTRACTOR SHALL REFER TO THE ARCHITECTURAL FLOOR PLANS FOR EXACT DIMENSIONS ON THE SPACE LAYOUT.
- DUE TO THE SMALL SCALE OF THE DRAWINGS, IT IS IMPOSSIBLE TO SHOW ALL REQUIRED OFFSETS, ELEVATIONS, ETC. IT IS THEREFORE THE CONTRACTORS RESPONSIBILITY TO VERIFY THE EXACT ROUTING, AND PLACEMENT OF EQUIPMENT AND PROVIDE REQUIRED OFFSETS INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS AND THE SPECIFICATIONS TO MEET THE INTENT OF THE DESIGN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE CUTTING, SAWCUTTING OPENINGS OF WALLS, CEILINGS, SOFFITS AS REQUIRED FOR THE INSTALLATION OF EQUIPMENT AND DUCTWORK AS REQUIRED.
- ALL FACTORY PRODUCED AIR DUCT SHALL BE A CLASS '0' OR CLASS '1' IN ACCORDANCE WITH THE ADOPTED MECHANICAL CODE. ALL DUCTWORK CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS AND REQUIREMENTS OF THE DUCT MANUAL AND SHEET METAL CONSTRUCTION FOR VENTILATING-AIR CONDITIONING SYSTEMS, LATEST EDITION, AS ISSUED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION, INC. (SMACNA). LOW PRESSURE ROUND DUCTS SHALL BE UNITED SHEET METAL SPIRAL UNRIB DUCT WITH UNITED UNWELDED FITTINGS. MATERIALS SHALL BE GALVANIZED STEEL OF GAUGES SHOWN IN THE LOW PRESSURE MANUAL UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS.
- THE CONTRACTOR SHALL KEEP INSTALLATION INSTRUCTIONS FOR ALL LISTED EQUIPMENT ON THIS PROJECT AT THE JOBSITE AND SHALL HAVE THEM ACCESSIBLE FOR THE FIELD INSPECTOR UPON REQUEST.

EXHAUST FAN SCHEDULE

UNIT ID.	EQUIPMENT DESCRIPTION	MANUFACTURER / MODEL	CAPACITIES	EQUIPMENT FEATURES	LOAD	ELEC.	WT.	NOTES:
EF 1	CEILING MOUNTED EXHAUST	COOK MODEL No. GC-542	355 CFM AT 0.25 SP, 5.5 SONES, 54 dBA, 65 LWA	WHITE STEEL GRILLE WITH ACOUSTICALLY INSULATED HOUSING AND LUBRICATED MOTOR WITH THERMAL OVERLOAD PROTECTION.	1.2 AMPS	115V / 10	30 LBS	1. SOUND LEVELS SHOWN IN THIS SCHEDULE OBTAINED FROM THE MANUFACTURERS PUBLISHED DATA. SOUND LEVELS WILL VARY DEPENDING ON THE ACTUAL INSTALLATION. SOUND LEVELS MAY EXCEED THE DATA NOTED IN THIS SCHEDULE.
EF 2	CEILING MOUNTED EXHAUST	COOK MODEL No. GC-642	585 CFM AT 0.15 SP, 4.5 SONES, 51 dBA, 62 LWA	WHITE STEEL GRILLE TYPE WITH ACOUSTICALLY INSULATED HOUSING AND LUBRICATED MOTOR WITH THERMAL OVERLOAD PROTECTION.	1.85 AMPS	115V / 10	26 LBS	

SUPPLY GRILLE SCHEDULE

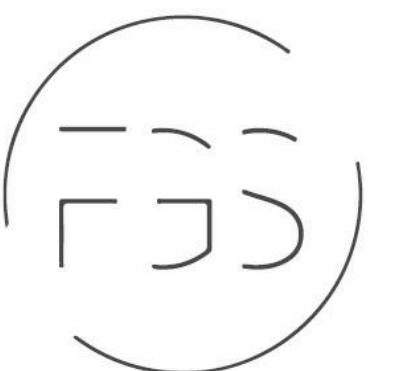
ID.	EQUIPMENT DESCRIPTION	MANUFACTURER / MODEL	NECK SIZES	CAPACITIES	EQUIPMENT FEATURES	NOTES:
1	SUPPLY GRILLE	KRUEGER MODEL No. 80	14" x 6"	VARIES SEE M1.0	SINGLE STEEL DEFLECTION SUPPLY GRILLE WITH 1/2" BLADE SPACING AND FLANGED FRAME FOR MOUNTING.	1. SOUND LEVELS SHOWN IN THIS SCHEDULE OBTAINED FROM THE MANUFACTURERS PUBLISHED DATA. SOUND LEVELS WILL VARY DEPENDING ON THE ACTUAL INSTALLATION. SOUND LEVELS MAY EXCEED THE DATA NOTED IN THIS SCHEDULE.

MECHANICAL SHEET LIST

Sheet Number	Sheet Name
M0.1	MECHANICAL SYMBOLS AND ABBREVIATIONS
M0.2	MECHANICAL SPECIFICATIONS
M1.0	MECHANICAL PLAN
M6.0	MECHANICAL DETAILS

MECHANICAL SYMBOLS AND ABBREVIATIONS

M0.1

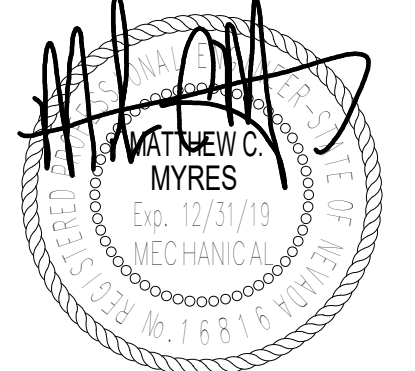


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nhudson@formgrey.com
(775) 848 9933

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MECHANICAL SPECIFICATIONS

A. GENERAL

1. PROVIDE ALL NECESSARY LABOR, MATERIALS, EQUIPMENT, SERVICES AND INSURANCES TO COMPLETE THE HEATING, VENTILATING AND AIR CONDITIONING WORK WITHIN THE FULL INTENT OF THE DRAWINGS AND SPECIFICATIONS CONTAINED HEREON AND TO THE ENTIRE SATISFACTION OF THE ARCHITECT/ENGINEER.
2. PROVIDE ALL PERMITS AND FEES AS REQUIRED FOR THE MECHANICAL WORK.
3. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE PROJECT BEFORE BIDDING.
4. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE (IBC), 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2018 INTERNATIONAL FIRE CODE (IFC), 2018 UNIFORM MECHANICAL CODE (UMC), 2018 UNIFORM PLUMBING CODE (UPC), 2017 NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARDS, AND ALL OTHER APPLICABLE CODES, RULES, AND LOCAL REQUIREMENTS.
5. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2012 INTERNATIONAL BUILDING CODE (IBC), 2012 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2012 INTERNATIONAL FIRE CODE (IFC), 2012 UNIFORM MECHANICAL CODE (UMC), 2012 UNIFORM PLUMBING CODE (UPC), 2011 NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARDS, AND ALL OTHER APPLICABLE CODES, RULES, AND LOCAL REQUIREMENTS.
6. GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR.
7. ALL DIMENSIONS AND MEASUREMENTS SHALL BE VERIFIED AT THE JOBSITE BEFORE FABRICATION AND/OR INSTALLATION OF THE EQUIPMENT.
8. PROVIDE AND INSTALL ALL EQUIPMENT, DUCT, PIPING, AND CONTROLS AS SHOWN ON THE DRAWINGS.

B. SUBMITTALS

1. ELECTRONIC SUBMITTALS IN ADOBE PDF FORMAT, IN LIEU OF PAPER COPIES, WILL ONLY BE ACCEPTED.
2. SUBSTITUTED ITEMS SHALL BE SUBMITTED WITH MANUFACTURER'S DESCRIPTIVE DATA AND MUST SHOW EQUALITY TO EQUIPMENT SPECIFIED. INFORMATION ON SUBSTITUTED ITEMS MUST BE COMPLETE, INCLUDING, BUT NOT LIMITED TO: DESIGN, CONSTRUCTION MATERIALS, CONSTRUCTION QUALITY, AND SOUND LEVELS. ENGINEER WILL NOT RESEARCH INFORMATION REQUIRED TO COMPARE EQUIPMENT. ENGINEER RESERVES THE RIGHT TO REQUIRE SPECIFIED EQUIPMENT.
3. SUBMIT MANUFACTURER'S DESCRIPTIVE DATA WITHIN TEN (10) WORKING DAYS AFTER AWARD OF THE CONTRACT. MATERIALS AND EQUIPMENT SHALL NOT BE ORDERED PRIOR TO SUBMITTAL APPROVAL. ALLOW TEN (10) WORKING DAYS AFTER RECEIPT OF SUBMITTALS IN THE ENGINEER'S OFFICE BEFORE REVIEWED SUBMITTALS WILL BE RETURNED.
4. UPON COMPLETION OF THE PROJECT, AND PRIOR TO FINAL ACCEPTANCE PAYMENT, SUBMIT ONE (1) SET OF AS-BUILT DRAWINGS AND THREE SETS OF OPERATING AND MAINTENANCE INSTRUCTIONS (BOUND IN 3-RING BINDERS).

C. WORKMANSHIP

1. ALL WORK TO BE PERFORMED BY QUALIFIED PERSONNEL NORMALLY ENGAGED IN THE RESPECTIVE LINE OF WORK.
2. PERFORM ALL WORK IN A MANNER NOT TO DISTURB THE NORMAL OPERATION OF THE BUILDING.
3. COORDINATE ALL WORK WITH THE OWNER'S REPRESENTATIVE.
4. COORDINATE ALL WORK WITH THE OTHER TRADES.
5. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL WORK ACCEPTABLE TO THE OWNER'S REPRESENTATIVE.

D. DEMOLITION

1. DEMOLITION WORK SHALL NOT CREATE ANY DUST PROBLEMS IN THE WORKING SPACES.

E. CUTTING, PATCHING, AND PAINTING

1. ALL CUTTING AND PATCHING TO BE PERFORMED BY THE GENERAL CONTRACTOR.
2. CUTTING OF ALL OPENINGS SHALL BE COORDINATED WITH THE OWNER'S ENGINEERING REPRESENTATIVE.

F. PRODUCT HANDLING

1. USE ALL MEANS NECESSARY TO PROTECT ALL MATERIALS AND EQUIPMENT BEFORE, DURING, AND AFTER INSTALLATION AND TO PROTECT THE MATERIALS AND WORK OF THE OTHER TRADES.
2. IN THE EVENT OF DAMAGE, IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY TO THE APPROVAL OF THE ENGINEER AND AT NO ADDITIONAL COST TO THE OWNER.

G. SEISMIC RESTRAINTS

1. ALL EQUIPMENT, DUCTWORK, PIPING, AND CONDUIT SHALL BE SEISMICALLY RESTRAINED PER THE 2012 IBC.

H. EQUIPMENT

1. EQUIPMENT SHALL BE AS SPECIFIED IN THE EQUIPMENT SCHEDULE OR AN APPROVED EQUAL IF NOTED.
2. INSTALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
3. PROVIDE 10'-0" MINIMUM CLEARANCE BETWEEN OUTSIDE AIR INTAKE AND ANY EXHAUST AIR OUTLETS OR PLUMBING VENTS.

L. DUCTWORK

1. AIR DISTRIBUTION DUCT SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH CURRENT EDITIONS OF THE ASHRAE GUIDE AND WITH S.M.A.C.N.A. DUCT CONSTRUCTION STANDARDS.
2. RECTANGULAR AND ROUND DUCTWORK SHALL BE CONSTRUCTED FROM GALVANIZED STEEL IN ACCORDANCE WITH THE LATEST EDITION S.M.A.C.N.A. "HVAC DUCT CONSTRUCTION STANDARDS" FOR 2" W.G. PRESSURE SYSTEMS. FIBERGLASS DUCT WILL NOT BE PERMITTED.
4. FITTINGS: ROUND TO RECTANGULAR DUCT CONNECTIONS SHALL BE MADE AS SHOWN ON DRAWINGS OR WITH CONICAL SHAPED PREFORMED FITTINGS. TURNING VANES SHALL BE USED FOR ALL MITERED ELBOWS IN RECTANGULAR DUCT. CENTERLINE RADIUS OF ALL ELBOWS SHALL BE ONE AND ONE HALF TIMES THE DIAMETER OF THE DUCT.
5. DUCTS SHALL BE PROVIDED WITH HANGERS TO PREVENT ANY BENDING OR SAGGING. HANGERS SHALL BE GALVANIZED STRAP IRON LOOPS WHICH SHALL BE FASTENED TO OVERHEAD CONSTRUCTION IN A SECURE MANNER. SIZE, GAUGE, AND SPACING SHALL BE PER S.M.A.C.N.A. STANDARDS.
6. ALL DUCT JOINTS SHALL BE SEALED WITH S.M.A.C.N.A. APPROVED TAPE AND POLYMER ADHESIVES AIR SEAL #33 OR DESIGN POLYMERICS #DP1010 WATER BASED DUCT SEALANT OR APPROVED EQUAL.
7. AT ALL DUCT CONNECTIONS TO UNITS, AND WHERE INDICATED, FURNISH AND INSTALL HEAVY FLEXIBLE CONNECTIONS 6" MINIMUM LENGTH. MATERIAL USED FOR FLEXIBLE CONNECTIONS SHALL BE VENTFAB AS MANUFACTURED BY VENTFABRIC, METALFAB AS MANUFACTURED BY DURODYNE, OR APPROVED EQUAL.
17. ALL WALL AND ROOF PENETRATIONS SHALL BE FLASHED AND COUNTERFLASHED WATERTIGHT.

M. GRILLES, REGISTERS, AND DIFFUSERS

1. AN AIR DISTRIBUTION SCHEDULE IS SHOWN ON DRAWINGS. UNITS OF EQUAL PERFORMANCE, CONSTRUCTION, AND SOUND CRITERIA BY MAJOR MANUFACTURERS WILL BE CONSIDERED FOR APPROVAL. SEE SUBSTITUTION REQUIREMENTS.
2. COORDINATE LOCATIONS WITH CEILING GRID DESIGN AND LIGHT FIXTURE PATTERN.

N. OTHER MATERIAL

1. ALL OTHER MATERIAL, NOT SPECIFICALLY DESCRIBED BUT REQUIRED FOR A COMPLETE JOB, SHALL BE NEW AND FIRST QUALITY, FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

O. IDENTIFICATION

1. PLASTIC NAMEPLATES: LAMINATED THREE LAYER WITH ENGRAVED BLACK LETTERS ON A LIGHT CONTRASTING BACKGROUND COLOR. INSTALL PLASTIC NAMEPLATES WITH CORROSION RESISTANT MECHANICAL FASTENERS, OR ADHESIVE.

P. RELATED WORK

1. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL POWER WIRING AND EQUIPMENT DISCONNECTS, UNLESS INCLUDED WITH EQUIPMENT, TO MAKE SYSTEM OPERATIONAL.

MECHANICAL SPECIFICATIONS

M0.2



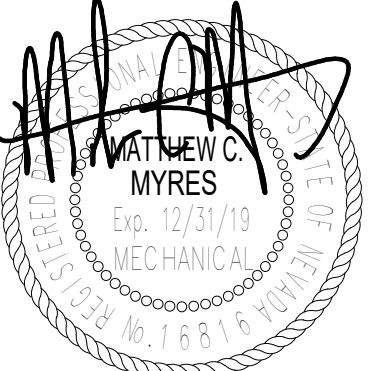
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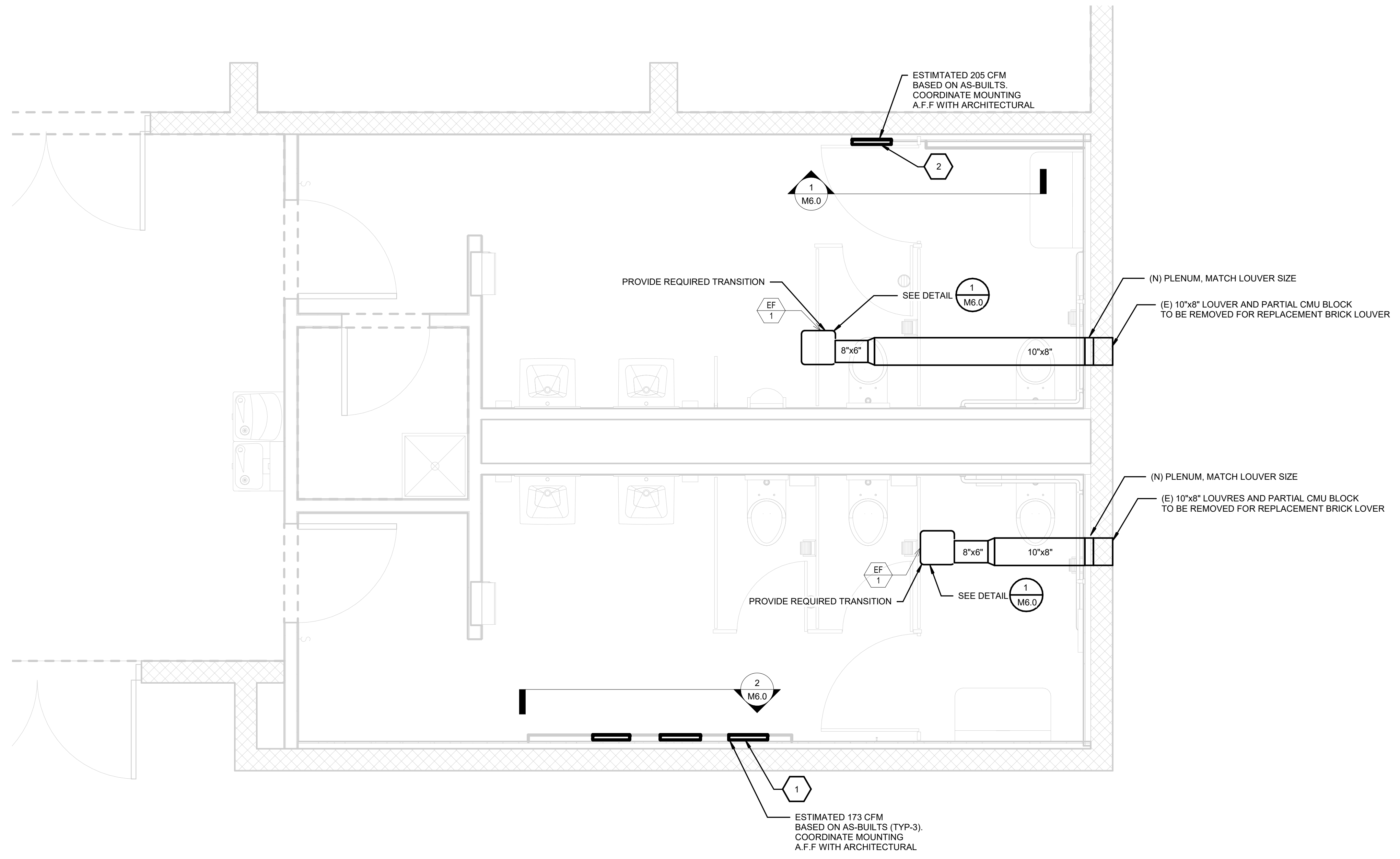
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1 MECHANICAL FLOOR PLAN
SCALE: 1/2" = 1'-0"

**MECHANICAL PLAN
M1.0**

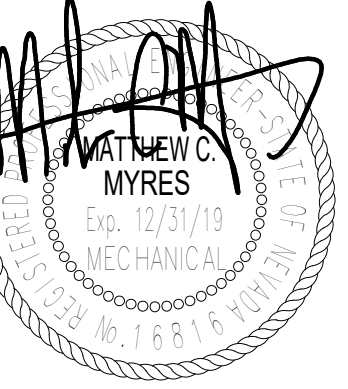


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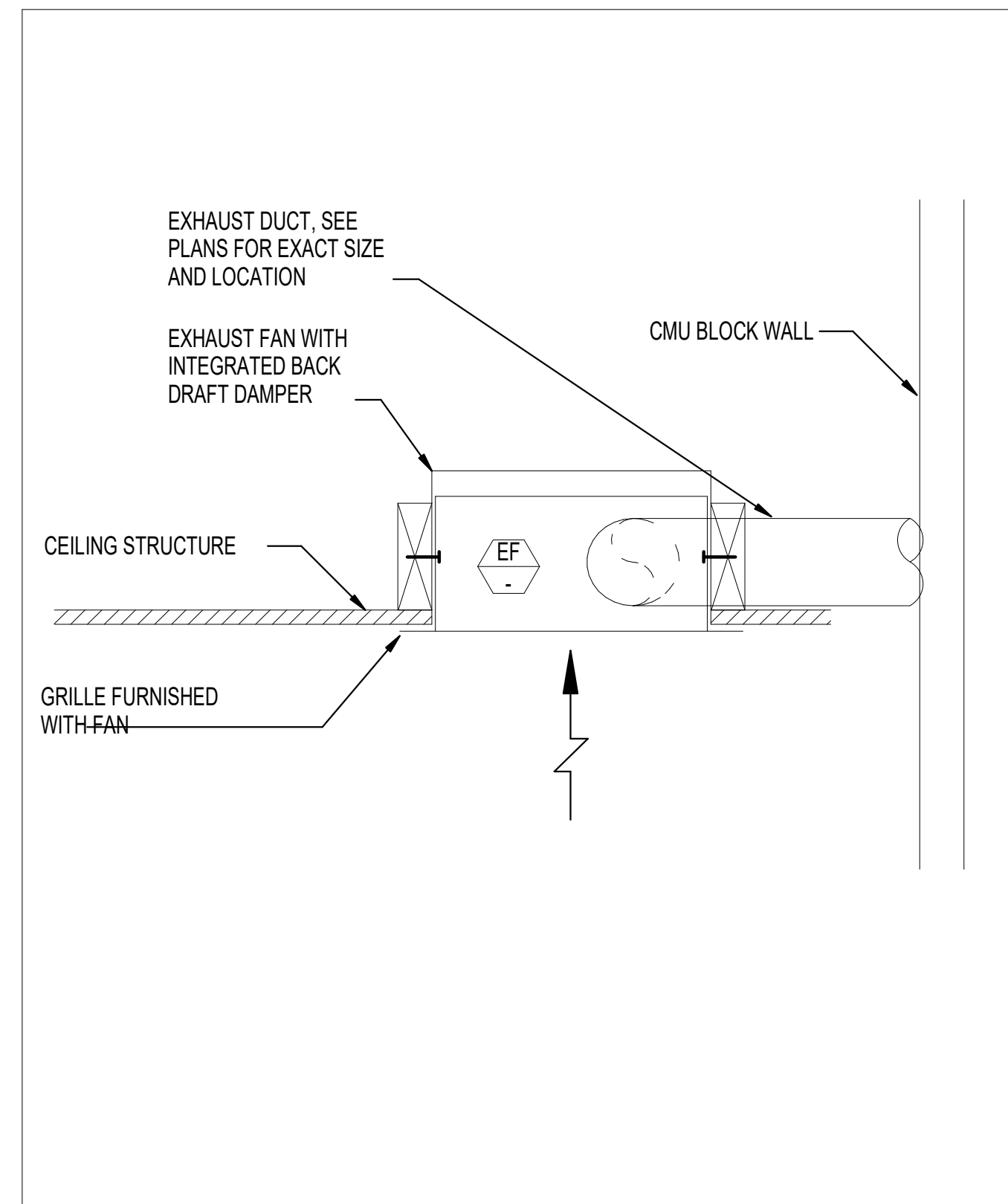
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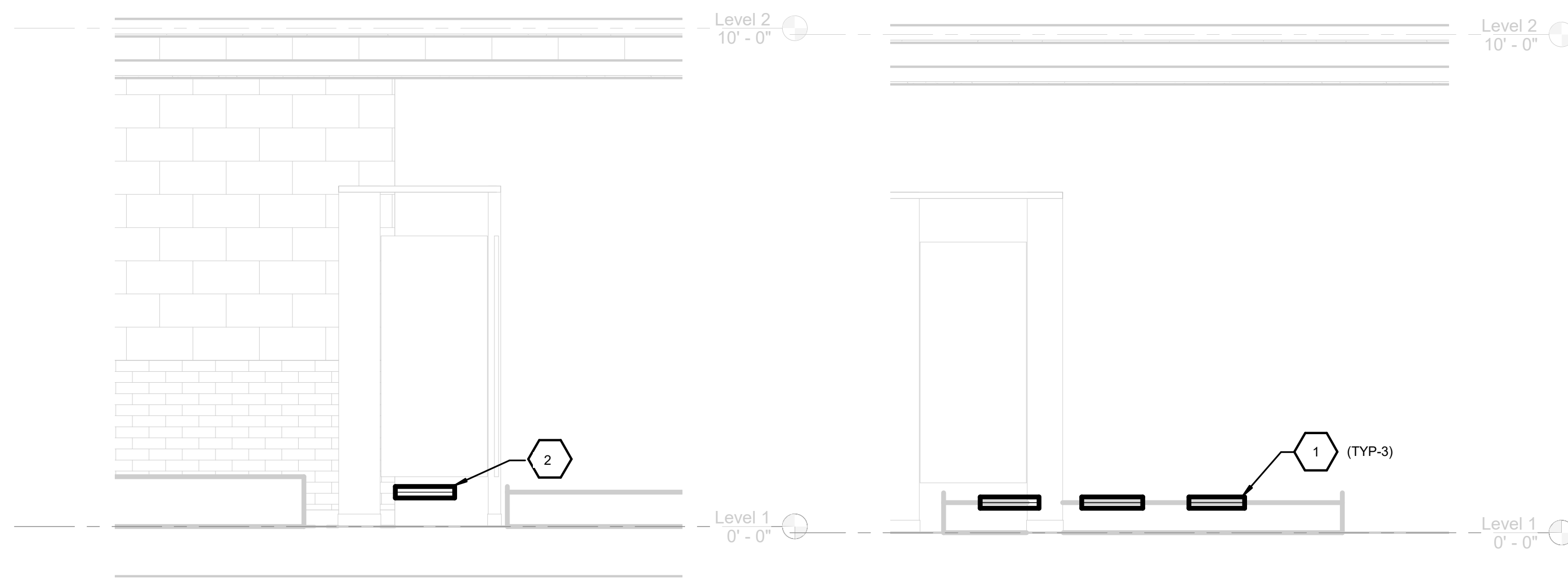
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1 EXHAUST FAN THROUGH ROOF/SIDEWALL
 M6.0 SCALE: NONE EF-1 SECTION DETAIL



1 SUPPLY GRILLE - MEN'S RESTROOM
 SCALE: N.T.S.

2 SUPPLY GRILLE - WOMEN'S RESTROOM
 SCALE: N.T.S.

**MECHANICAL
 DETAILS
 M6.0**

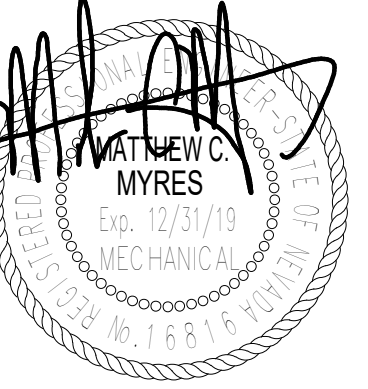


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PLUMBING SYMBOL LIST

(NOTE: ALL OF THE SYMBOLS INDICATED BELOW MAY NOT APPEAR ON THIS PROJECT)

	S or W	SOIL OR WASTE PIPING (BELOW GRADE / FLOOR)		TH.	THERMOMETER
	S or W	SOIL OR WASTE PIPING (ABOVE GRADE / FLOOR)		V.B.	VACUUM BREAKER
	V	SOIL OR WASTE VENT PIPING		C.O.	CLEANOUT PLUG
	RDL.SDL	STORM OR ROOF DRAIN PIPING (BELOW GRADE / FLOOR)		F.C.O.	FLOOR CLEANOUT
	RDL.SDL	STORM OR ROOF DRAIN PIPING (ABOVE GRADE / FLOOR)		G.C.O.	GRADE CLEANOUT
	OD.L	OVERFLOW ROOF DRAIN PIPING (BELOW GRADE / FLOOR)		W.C.O.	WALL CLEANOUT
	OD.L	OVERFLOW ROOF DRAIN PIPING (ABOVE GRADE / FLOOR)		P.D.	PIPING TEE DOWN
	D	DRAIN PIPING		P.U.	PIPING TEE UP
	IW	INDIRECT WASTE PIPING		P.U.	PIPING ELBOW UP
	C	CONDENSATE DRAIN PIPING		P.D.	PIPING ELBOW DOWN
	CW	COLD WATER PIPING			BRANCH - TOP CONNECTION
	HW	HOT WATER PIPING (105° - 125° F)			BRANCH - BOTTOM CONNECTION
	HWR	HOT WATER RECIRCULATION PIPING (SPECIFY TEMP)			BRANCH - SIDE CONNECTION
	T	TEMPERED WATER (120° F)		P.T.	PLUGGED TEE
	TR	TEMPERED WATER RETURN PIPING		C.O.P.	CAP ON END OF PIPE
	TP	TRAP PRIMER WATER PIPING		OR	ARROW INDICATES DIRECTION OF FLOW
	LPG	LIQUID PROPANE GAS (7" W.C.)		P	POWER POINT CONNECTION FOR HOT WATER MAINT. SYSTEM
	G	GAS - LOW PRESSURE (LESS THAN 2 PSI)		F.L.S.	FLOOR SINK
	MG	GAS - MEDIUM PRESSURE (2-3 PSI)		F.D.	FLOOR DRAIN
	HG	GAS - HIGH PRESSURE (5 PSI AND ABOVE)			PLUMBING FIXTURE SCHEDULE - (SEE SCHEDULE)
	A	COMPRESSED AIR PIPING			KITCHEN EQUIPMENT CONNECTION SCHEDULE - (SEE SCHEDULE)
	FOS	FUEL OIL SUPPLY PIPING		V.T.R.	PLUMBING VENT THRU ROOF
	FOR	FUEL OIL RETURN PIPING		A.P.	ACCESS PANEL
	G.V.	GATE VALVE		AFF	ABOVE FINISHED FLOOR
	GLV	GLOBE VALVE		AFG	ABOVE FINISHED GRADE
	BLV	BALL VALVE		BTUH	BRITISH THERMAL UNITS PER HOUR
	ANV	ANGLE VALVE		CD	CONDENSATE DRAIN PIPING
	B.F.V.	BUTTERFLY VALVE		CFH	CUBIC FEET PER HOUR
	C.H.V.	CHECK VALVE		DN	DOWN
	G.C.	GAS COCK, GAS STOP		(E)	EXISTING
	B.V.	BALANCING VALVE		GA	GAUGE
	H.B.	HOSE BIBB		GAL	GALLON
	H.V.	3/4" HOSE END DRAIN VALVE		GPH	GALLONS PER HOUR
	S.O.V.	SHUT-OFF VALVE IN RISER		GPM	GALLONS PER MINUTE
	BP	DOUBLE CHECK BACKFLOW PREVENTION ASSEMBLY		HD	HEAD
	R.P.B.P.	REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY		HR	HOUR
	G.P.R.	GAS PRESSURE REDUCING VALVE		MAX	MAXIMUM
	S.T.R.	STRAINER		MBH	BRITISH THERMAL UNITS PER HOUR (THOUSANDS)
	S.T.R.V.	STRAINER WITH 3/4" HOSE END DRAIN VALVE		MIN	MINIMUM
	P.T.R.	PRESSURE - TEMPERATURE RELIEF VALVE		(N)	NEW
	RV	PRESSURE RELIEF VALVE		NOM	NOMINAL
	U	UNION		PD	PRESSURE DROP
	F	FLANGE		T.J.	THROUGH JOISTS
	FL	FLEXIBLE PIPING CONNECTOR (U.L. LABELED FOR GAS PIPING)		TYP	TYPICAL
	RED.	REDUCER		U.F.	UNDER FLOOR
	W.H.A.	WATER HAMMER ARRESTOR		WC	WATER COLUMN
	P.R.G.	PRESSURE GAUGE WITH GAUGE COCK			

SYM	DESCRIPTION	MANUFACTURER & MODEL NO.	TRIM	CONNECTIONS				REMARKS
				W	V	HW	CW	
L-1	LAVATORY WALL HUNG (ADA COMPLIANT)	KOHLER MODEL NO. 5-2035-1-0 "PINOIR" (OR APPROVED EQUAL)	SINGLE FAUCET HOLE, WALL HUNG SINK, WHITE PORCELAIN, OVAL BASIN, OVERFLOW DRAIN, WALL HANGER INCLUDED. PROVIDE LIGHT SWITCH WITHOUT MOTION DETECTION AND UNDER LAVATORY SCALD GUARDS.	2"	1 1/2"	3/4"	3/4"	ADA COMPLIANT WHEN INSTALLED PER MANUFACTURERS INSTRUCTIONS
WC-1	WALL MOUNTED WATER CLOSET (ADA COMPLIANT)	AMERICAN STANDARD MODEL 3351.101 "AFWALL MILLENNIUM FLOWISE" (OR APPROVED EQUAL)	HIGH EFFICIENCY 1.6 GPF WALL MOUNTED ELONGATED FLUSHOMETER VALVE TOILET, VITREOUS CHINA, PERMANENT EVERCLEAN SURFACE, TOP SPUD. PROVIDE WITH 5901.100 HEAVY DUTY AMERICAN STANDARD SEAT. PROVIDE WITH 1.6 GPF AC POWERED SELECTRONIC FLUSHOMETER VALVE MODEL NO. 6067.161.002. PROVIDE ZURN EZCARRY ADJUSTABLE HORIZONTAL NARROW WALL CARRIER MODEL # ZN1201-H	4"	2"	N/A	1/2"	ADA COMPLIANT WHEN INSTALLED PER MANUFACTURERS INSTRUCTIONS
UR-1	URINAL (ADA COMPLIANT)	AMERICAN STANDARD MODEL NO. 6590.510 "WASHBROOK FLOWISE" (OR APPROVED EQUAL)	WALL HUNG URINAL, EXPOSED TOP SPUD WITH SELECTRONIC EXPOSED AC FLUSH VALVE, FLUSHING RIM, WASHOUT FLUSHING ACTION, VITREOUS CHINA, COLOR WHITE, SELECTRONIC FLUSH VALVE: 0.5 GPF HARD WIRED SENSOR OPERATED, WITH ZURN #Z1222 URINAL SUPPORT PLATE	2"	1 1/2"	N/A	1"	ADA COMPLIANT WHEN INSTALLED PER MANUFACTURERS INSTRUCTIONS
EW-1	MECHANICAL PUSHBAR ACTUATED WATER COOLER (ADA COMPLIANT) WITH BOTTLE FILLER	ELKAY MODEL No. VRCLR8WSK	BI-LEVEL, BARRIER-FREE, WALL MOUNTED REFRIGERATED WATER COOLER WITH SELF-CLOSING EASY-TOUCH CONTROLS REQUIRING LESS THAN 3 POUNDS OF FORCE TO OPERATE. UNIT SHALL PROVIDE 8.0 GPH OF 50°F WATER WITH 80°F ENTERING WATER AND 90°F AMBIENT. PROVIDE AND INSTALL MANUFACTURERS CANE SKIRT. PROVIDE COMPLETE WITH MOUNTING PLATE, STOP, SUPPLY, TRAP, CANE SKIRT AND BOTTLE FILLER MODEL No. LZWSRK.	2"	1 1/2"	N/A	1/2"	UNIT SHALL BE DESIGNED FOR WHEELCHAIR USE AND MEET ADA REQUIREMENTS. ELEC: 120V/1PH/60HZ, FLA: 5.0 AMPS OPERATING WEIGHT: 150 LBS.
WCO-1	WALL CLEANOUT	ZURN MODEL Z1446	CAST BRONZE CLEANOUT PLUG WITH VANDAL PROOF STAINLESS COVER.	2"	N/A	N/A	N/A	INSTALL PER MANUFACTURERS INSTRUCTIONS
WHA-1	WATER HAMMER ARRESTER	WATTS SERIES LF15M2	LEAD FREE COMPLIANT FOR USE IN PORTABLE WATER SYSTEMS, MAXIMUM ALLOWABLE PRESSURE OF 150 PSI AND A TEMPERATURE RANGE OF 33°F-180°F, CAPABLE OF BEING INSTALLED IN CONCEALED LOCATIONS, AND INSTALLED AS CLOSE TO INDICATED FIXTURE AS POSSIBLE.	N/A	N/A	N/A	1/2"-1"	INSTALL ON ALL FIXTURES WITH QUICK CLOSING VALVES SUCH AS URINALS, WATER CLOSETS, DISHWASHERS, ICE MAKERS
GCO-1	DUAL GRADE CLEANOUT	ZURN MODEL Z1402	TUF-TOP NON-ADJUSTABLE FLOOR CLEANOUT WITH DURA-COATED CAST IRON BODY, WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG, AND ROUND SCORIATED CAST IRON HEAVY-DUTY SECURED COVER AND FRAME	4"	N/A	N/A	N/A	INSTALL PER MANUFACTURERS INSTRUCTIONS
TP-1	TRAP PRIMER ASSEMBLY	PPP MODEL NO. PR-500	AUTOMATICALLY ACTIVATED WHEN SENSING 10 PSI DROP, PRIMES UP TO TWO P TRAPS. OPERATING RANGE BETWEEN 20 AND 80 PSI	N/A	N/A	N/A	1/2"	INSTALL PER MANUFACTURERS INSTRUCTIONS
ET-1	EXPANSION TANK	AMITROL X-TROL MODEL No. ST-5C	PRE-CHARGED THERMAL EXPANSION TANK. TANK SHALL HAVE AN ACCEPTANCE VOLUME OF 2.0 GALLONS WITH A 150 PSI MAXIMUM WORKING PRESSURE, 240°F MAXIMUM WORKING TEMPERATURE, AND 55 PSI FACTORY PRESET PRESSURE. 1.4 FLA. ELECTRICAL: 120V, SINGLE PHASE, 60HZ	N/A	N/A	3/4"	N/A	UNIT SHALL BE DESIGNED AND BUILT FOR USE ON FRESH POTABLE WATER SYSTEMS.

PLUMBING EQUIPMENT SCHEDULE								
SYM	DESCRIPTION	MANUFACTURER & MODEL NO.	TRIM	CONNECTIONS				REMARKS
				W	V	HW	CW	
WH-1	ELECTRIC WATER HEATER	AO SMITH MODEL No. E6-40H45DV	40 GALLON, DUAL 4500-WATT COPPER HEATING ELEMENTS, FOAM INSULATED, 120 MBH INPUT, 90°F RISE AT 154 GPH	N/A	N/A	3/4"	3/4"	ENERGY FACTORY (EF) OF 0.90

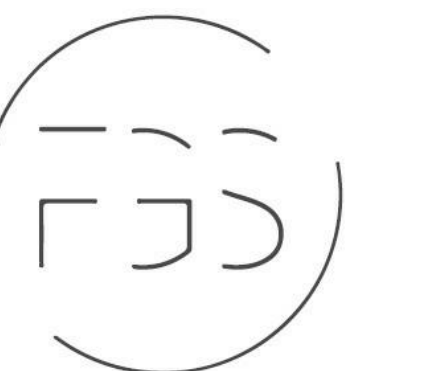
PLUMBING SHEET LIST	
Sheet Number	Sheet Name
P0.1	PLUMBING SYMBOLS AND ABBREVIATIONS
P0.2	PLUMBING SPECIFICATIONS
P1.0	PLUMBING PLAN - WASTE AND VENT
P2.0	PLUMBING PLAN - WATER AND GAS
P6.0	PLUMBING DETAILS

PLUMBING PROJECT NOTES

- CONTRACTOR SHALL REFER TO THE ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATIONS OF ROUGH-IN FOR ALL UNITS AS SHOWN ON THE ENLARGED PLUMBING PLANS.
- ALL PLUMBING SYSTEMS AND COMPONENTS SHALL BE INSTALLED PER 2012 U.P.C.
- THE UNIT WATER PLANS HAVE BEEN SIZED ACCORDING TO THE LONGEST DEVELOPED LENGTH FOR THE UNIT TYPE. SOME UNITS HAVE LESS TOTAL DEVELOPED LENGTH OF WATER PIPING. THE CONTRACTOR SHALL IDENTIFY THESE UNITS AND MAY ADJUST THE WATER PIPE SIZES IN ACCORDANCE WITH 2012 U.P.C. TABLE 610.4 USING THE OVER 60 PSI WATER PRESSURE RANGE.
- FOR TYPICAL CLEANOUTS. SEE DETAIL
- FOR TYPICAL PIPING PENETRATIONS. SEE DETAILS

PLUMBING SYMBOLS AND ABBREVIATIONS

P0.1



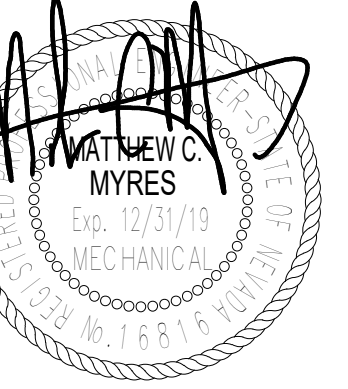
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PLUMBING SPECIFICATIONS

A. GENERAL

1. PROVIDE ALL NECESSARY LABOR, MATERIALS, EQUIPMENT, SERVICES AND INSURANCES TO COMPLETE THE PLUMBING WORK WITHIN THE FULL INTENT OF THE DRAWINGS AND SPECIFICATIONS CONTAINED HEREON AND TO THE ENTIRE SATISFACTION OF THE ARCHITECT/ENGINEER.
2. PROVIDE ALL PERMITS AND FEES AS REQUIRED FOR THE PLUMBING WORK.
3. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE PROJECT BEFORE BIDDING.
4. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE (IBC), 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2018 INTERNATIONAL FIRE CODE (IFC), 2018 UNIFORM MECHANICAL CODE (UMC), 2018 UNIFORM PLUMBING CODE (UPC), 2017 NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARDS, AND ALL OTHER APPLICABLE CODES, RULES, AND LOCAL REQUIREMENTS.
5. GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR.
6. ALL DIMENSIONS AND MEASUREMENTS SHALL BE VERIFIED AT THE JOBSITE BEFORE FABRICATION AND/OR INSTALLATION OF THE FIXTURES.
7. DRAWINGS ARE DIAGRAMMATIC TO SHOW BASIC SIZING. COORDINATE THE RUNNING OF ALL MAINS WITH THE ENGINEER. ANY MAJOR REROUTING SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE FOR APPROVAL.

B. SUBMITTALS

1. ELECTRONIC SUBMITTALS IN ADOBE PDF FORMAT, IN LIEU OF PAPER COPIES, WILL ONLY BE ACCEPTED.
2. SUBSTITUTED ITEMS SHALL BE SUBMITTED WITH MANUFACTURER'S DESCRIPTIVE DATA AND MUST SHOW EQUALITY TO EQUIPMENT SPECIFIED. INFORMATION ON SUBSTITUTED ITEMS MUST BE COMPLETE, INCLUDING, BUT NOT LIMITED TO: DESIGN, CONSTRUCTION MATERIALS, CONSTRUCTION QUALITY, AND SOUND LEVELS. ENGINEER WILL NOT RESEARCH INFORMATION REQUIRED TO COMPARE EQUIPMENT. ENGINEER RESERVES THE RIGHT TO REQUIRE SPECIFIED EQUIPMENT.
3. UPON COMPLETION OF THE PROJECT, AND PRIOR TO FINAL ACCEPTANCE PAYMENT, SUBMIT ONE (1) SET OF AS-BUILT DRAWINGS AND THREE SETS OF OPERATING AND MAINTENANCE INSTRUCTIONS (BOUND IN 3-RING BINDERS).

C. WORKMANSHIP

1. ALL WORK TO BE PERFORMED BY QUALIFIED PERSONNEL NORMALLY ENGAGED IN THE RESPECTIVE LINE OF WORK.
2. PERFORM ALL WORK IN A MANNER NOT TO DISTURB THE NORMAL OPERATION OF THE BUILDING.
3. COORDINATE ALL WORK WITH THE OWNER'S REPRESENTATIVE.
4. COORDINATE ALL WORK WITH THE OTHER TRADES.
5. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL WORK ACCEPTABLE TO THE OWNER'S REPRESENTATIVE.

D. PRODUCT HANDLING

1. USE ALL MEANS NECESSARY TO PROTECT ALL MATERIALS AND FIXTURES BEFORE, DURING, AND AFTER INSTALLATION AND TO PROTECT THE MATERIALS AND WORK OF THE OTHER TRADES.
2. IN THE EVENT OF DAMAGE, IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY TO THE APPROVAL OF THE ENGINEER AND AT NO ADDITIONAL COST TO THE OWNER.

E. CUTTING, PATCHING, AND PAINTING

1. ALL CUTTING AND PATCHING TO BE PERFORMED BY THE GENERAL CONTRACTOR.
2. CUTTING OF ALL OPENINGS SHALL BE COORDINATED WITH THE OWNER'S ENGINEERING REPRESENTATIVE.
3. WATER WILL NOT BE USED FOR CONCRETE CUTTING WITHOUT THE DIRECT SUPERVISION OF THE OWNER'S ENGINEERING REPRESENTATIVE.

E. PIPING

1. WASTE AND VENT PIPING BELOW GRADE WITHIN 5 FEET OF BUILDING SHALL BE SCHEDULE 40 ABS DWV PIPE AND FITTINGS CONFORMING TO ASTM D2661 OR D2751 WITH SOLVENT WELD JOINTS MEETING ASTM D2855 USING ASTM D2564 SOLVENT CEMENT. PIPE SHALL BE BEDDED IN 12" OF SAND.
2. WASTE AND VENT PIPING ABOVE GRADE SHALL BE SCHEDULE 40 ABS DWV PIPE AND FITTINGS CONFORMING TO ASTM D2661 OR D2751 WITH SOLVENT WELD JOINTS MEETING ASTM D2235.
3. GRADE WASTE PIPING 1/4" PER FOOT (2%) OR AS APPROVED BY THE LOCAL CODE AUTHORITY.
4. PROVIDE 10'-0" MINIMUM CLEARANCE BETWEEN PLUMBING VENTS AND ANY OUTSIDE AIR INTAKES.
5. WATER PIPING BELOW GRADE WITHIN 5 FEET OF BUILDING SHALL BE COPPER TUBING, ASTM B42, HARD DRAWN WITH ANSI/AWWA C105 POLYETHYLENE JACKET OR DOUBLE LAYER, HALF-LAPPED 10 MIL POLYETHYLENE TAPE WITH WROUGHT COPPER FITTINGS AND SILVER BRAZED JOINTS.
6. WATER PIPING ABOVE GRADE SHALL BE ASTM B88, TYPE "L", HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS. USE 95/5 TIN-ANTIMONY LEAD FREE SOLDER ON PIPING UNDER 2" AND SILVER BRAZED JOINTS ON PIPING 2" AND OVER.

F. HANGERS & SUPPORTS

1. PROVIDE SPLIT RING HANGERS FOR ALL PIPING. HANGER SPACING SHALL BE PER UPC TABLE 3-2 AND SHALL BE LOCATED AT ALL CHANGES IN DIRECTION.
2. SUPPORT ALL PIPING IN WALLS WITH HOLD-RITE PIPE SUPPORT SYSTEM OR EQUAL.
3. PIPING AT FLUSH VALVES SHALL BE HELD SECURELY IN PLACE TO PREVENT ANY MOVEMENT.

G. VALVES & SPECIALTIES

1. BALL VALVES (UP TO 2"): BRONZE BODY, STAINLESS STEEL BALL, TEFLON SEATS, FULL PORT, THREADED ENDS, LEVER HANDLE. VALVE TO BE "LEAD-FREE" COMPLIANT PER THE REDUCTION OF LEAD IN DRINKING WATER ACT.

H. ISOLATION

1. ISOLATE ALL DISSIMILAR METALS WITH ISOLATORS EQUALING OR EXCEEDING THE QUALITY OF "EPCO" DIELECTRIC UNIONS.
2. ISOLATE ALL COPPER PIPING FROM DISSIMILAR SUPPORTS.
3. ISOLATE ALL PIPING THROUGH CONCRETE WITH 1/2" THICK CLOSED CELL FOAM.
4. ISOLATE ALL PIPING AT STUDS WITH POLYETHYLENE PIPE INSULATORS.

I. INSULATION

1. ACCEPTABLE MANUFACTURERS: CERTAINTEED, KNAUF, JOHNS MANVILLE, AND OWENS CORNING.
2. COLD WATER PIPING ABOVE CEILING SHALL BE INSULATED WITH 1/2" THICK FIBERGLASS PIPE INSULATION WITH VAPOR BARRIER AND PRE-MOLDED PVC FITTING COVERS. DO NOT INSULATE VALVES, UNIONS, ETC.
3. HOT WATER AND HOT WATER RETURN PIPING SHALL BE INSULATED WITH FIBERGLASS PIPE INSULATION WITH VAPOR BARRIER AND PRE-MOLDED FITTING COVERS. 1/2" THICK ON PIPES SIZES UP TO 1". 1" THICK ON PIPE SIZES 1 1/4" AND OVER. DO NOT INSULATE VALVES, UNIONS, ETC.
4. HOT WATER AND HOT WATER RETURN PIPING BELOW FLOOR SLAB IN BUILDING SHALL BE INSULATED WITH 1" THICK CLOSED CELL FOAM. INSULATION TO BE SLIPPED OVER PIPE. DO NOT CUT LENGTHWISE.

J. SEISMIC RESTRAINTS

1. ALL EQUIPMENT, PIPING, AND CONDUIT SHALL BE SEISMICALLY RESTRAINED PER THE 2018 IBC.

K. OTHER MATERIAL

1. ALL OTHER MATERIAL, NOT SPECIFICALLY DESCRIBED BUT REQUIRED FOR A COMPLETE JOB, SHALL BE NEW AND FIRST QUALITY, FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR.

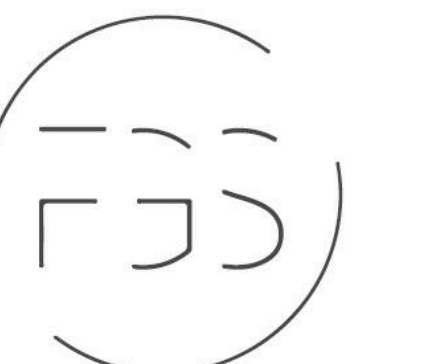
L. TESTING & CHLORINATION

1. ALL PIPING SHALL BE TESTED IN THE PRESENCE OF AN INSPECTOR BEFORE WORK IS CONCEALED. NOTIFY THREE DAYS PRIOR TO TESTS.
2. FLUSH ALL PIPING TO REMOVE ANY FOREIGN MATERIAL.
3. CHLORINATE ALL NEW WATER PIPING PRIOR TO USE FOR 24-HOUR PERIOD WITH A MINIMUM OF 50 PARTS PER MILLION OR AS REQUIRED TO ACHIEVE A CHLORINE RESIDUAL OF 10 MILLIGRAMS PER LITER AT COMPLETION OF A 24-HOUR PERIOD. ALL PROCEDURES SHALL BE IN ACCORDANCE WITH AWWA STANDARD C651 AND THE STATE HEALTH DEPARTMENT.
4. TEST PIPING AT COMPLETION OF ROUGHING-IN, IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

WASTE AND VENT	10' HIGH WATER COLUMN FOR 15 MINUTES WITH NO DROP IN WATER LEVEL
WATER	120 PSI W/WATER FOR 4 HOURS WITH NO DROP IN PSI

PLUMBING SPECIFICATIONS

P0.2



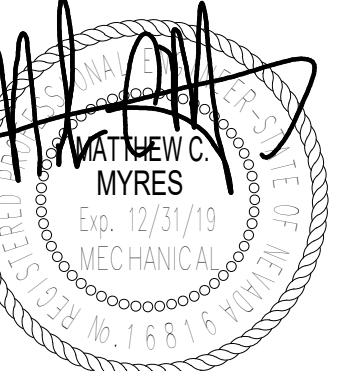
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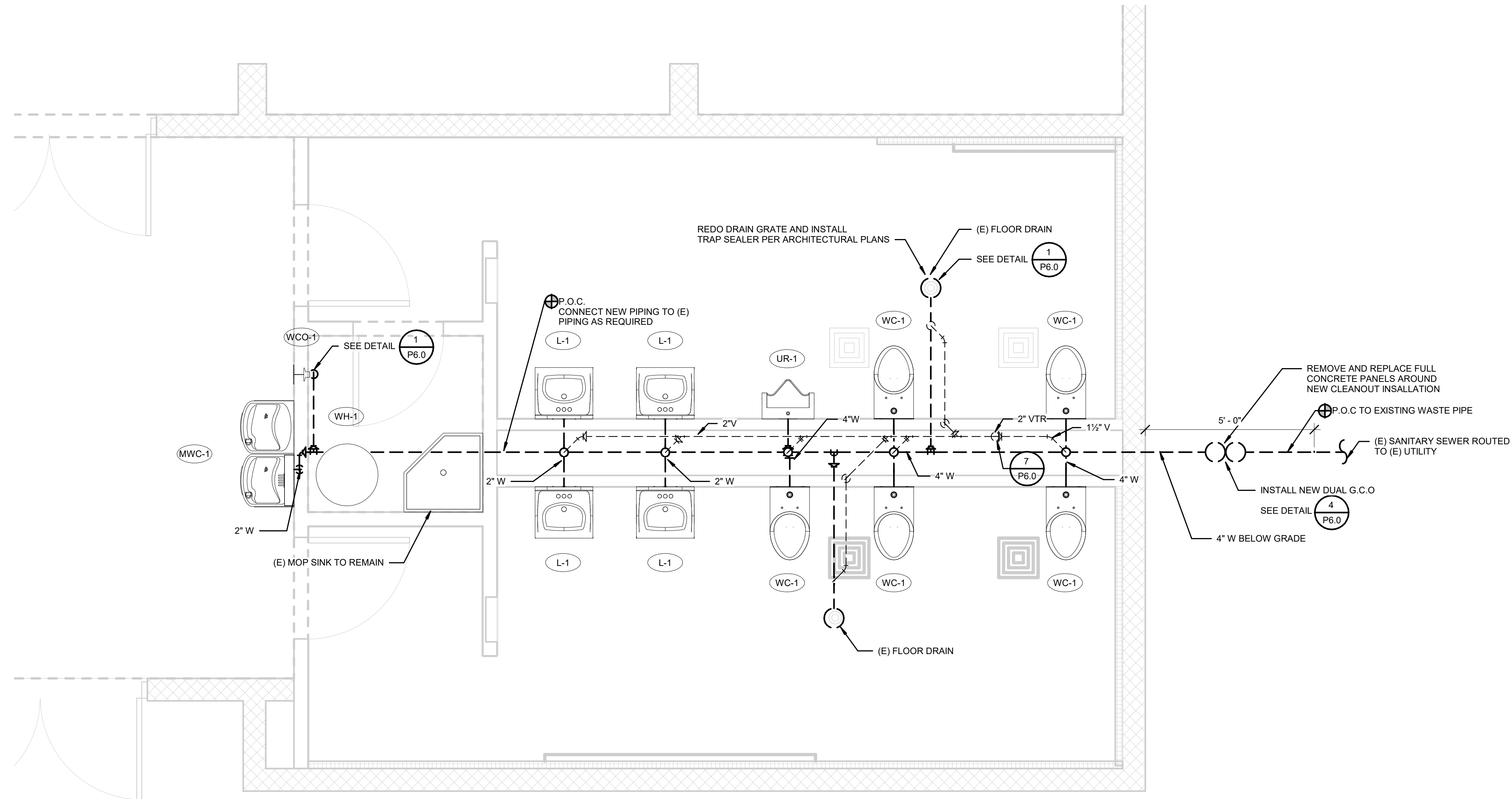
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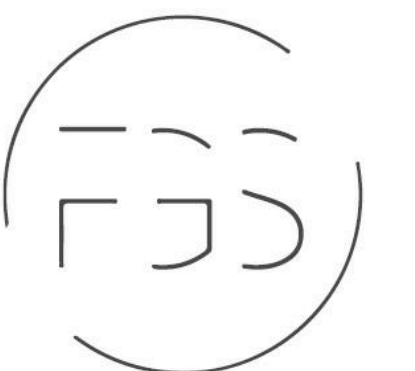
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**PLUMBING PLAN -
WASTE AND VENT
P1.0**

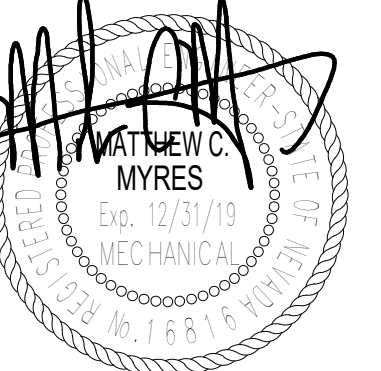


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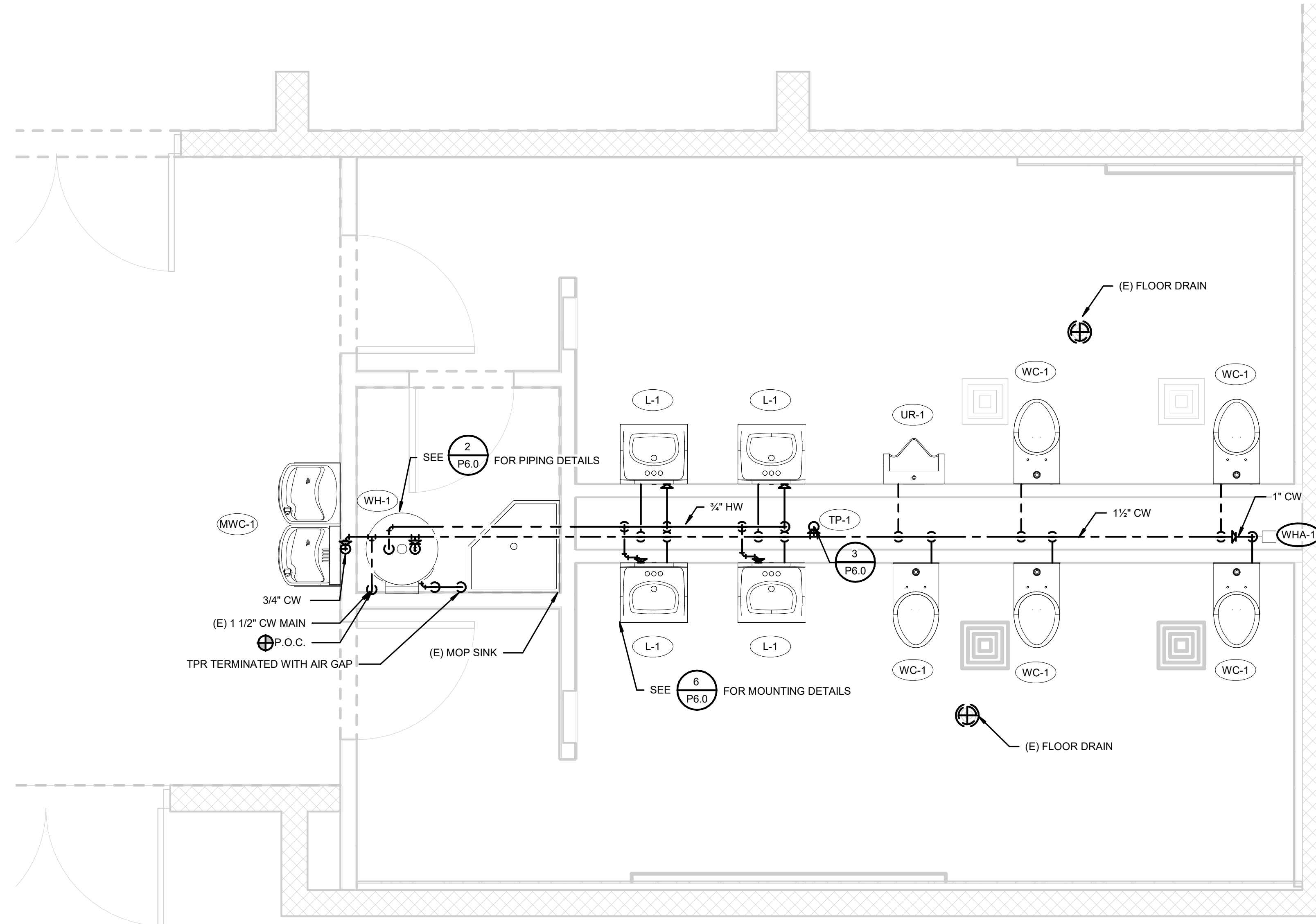
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1 PLUMBING FLOOR PLAN - WASTE AND VENT
SCALE: 1/2" = 1'-0"

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1 PLUMBING FLOOR PLAN - WATER AND GAS
SCALE: 1/2" = 1'-0"

**PLUMBING PLAN -
WATER AND GAS**

P2.0



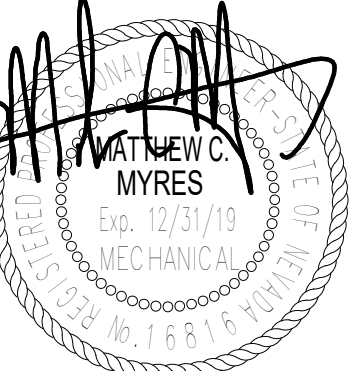
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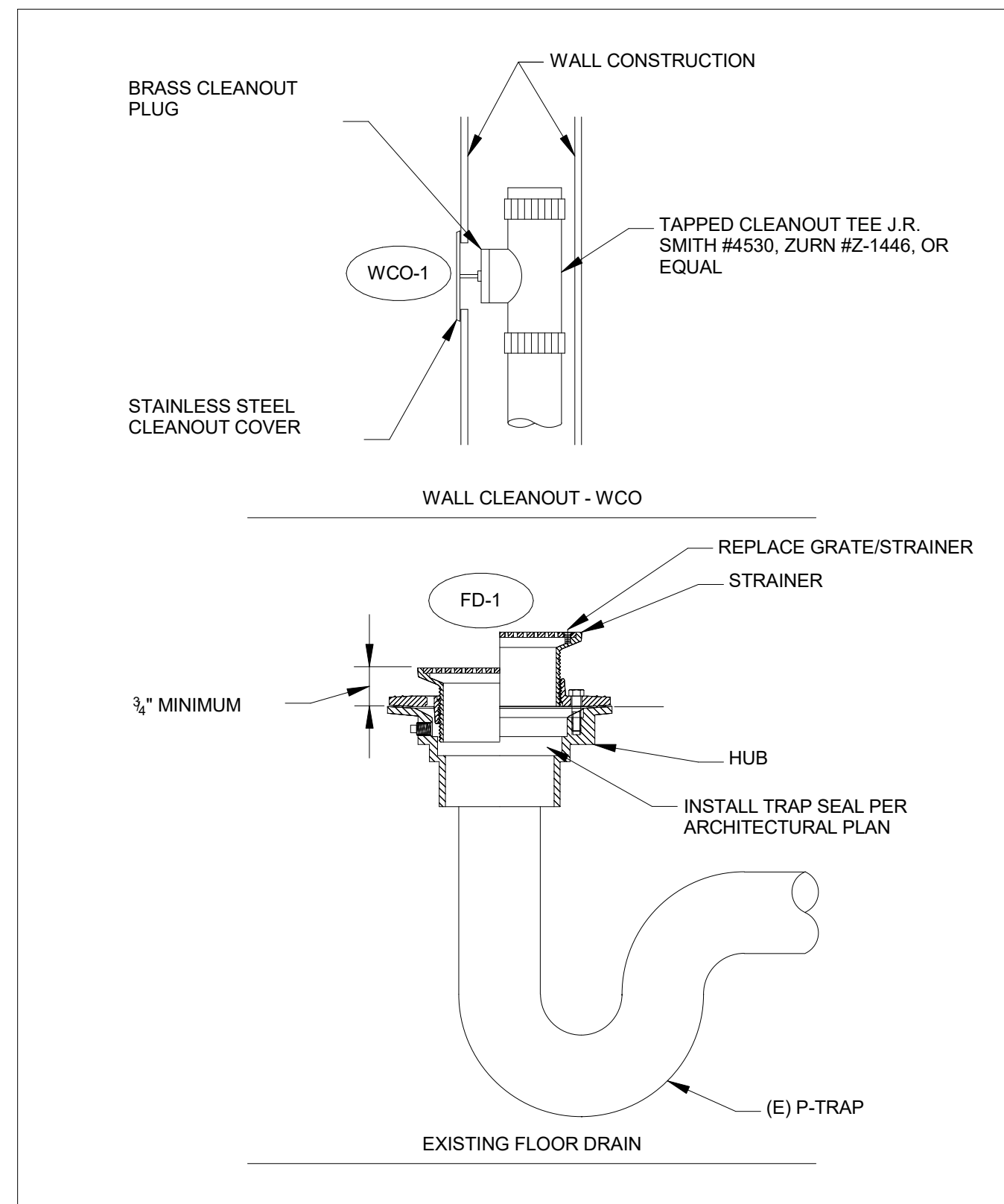
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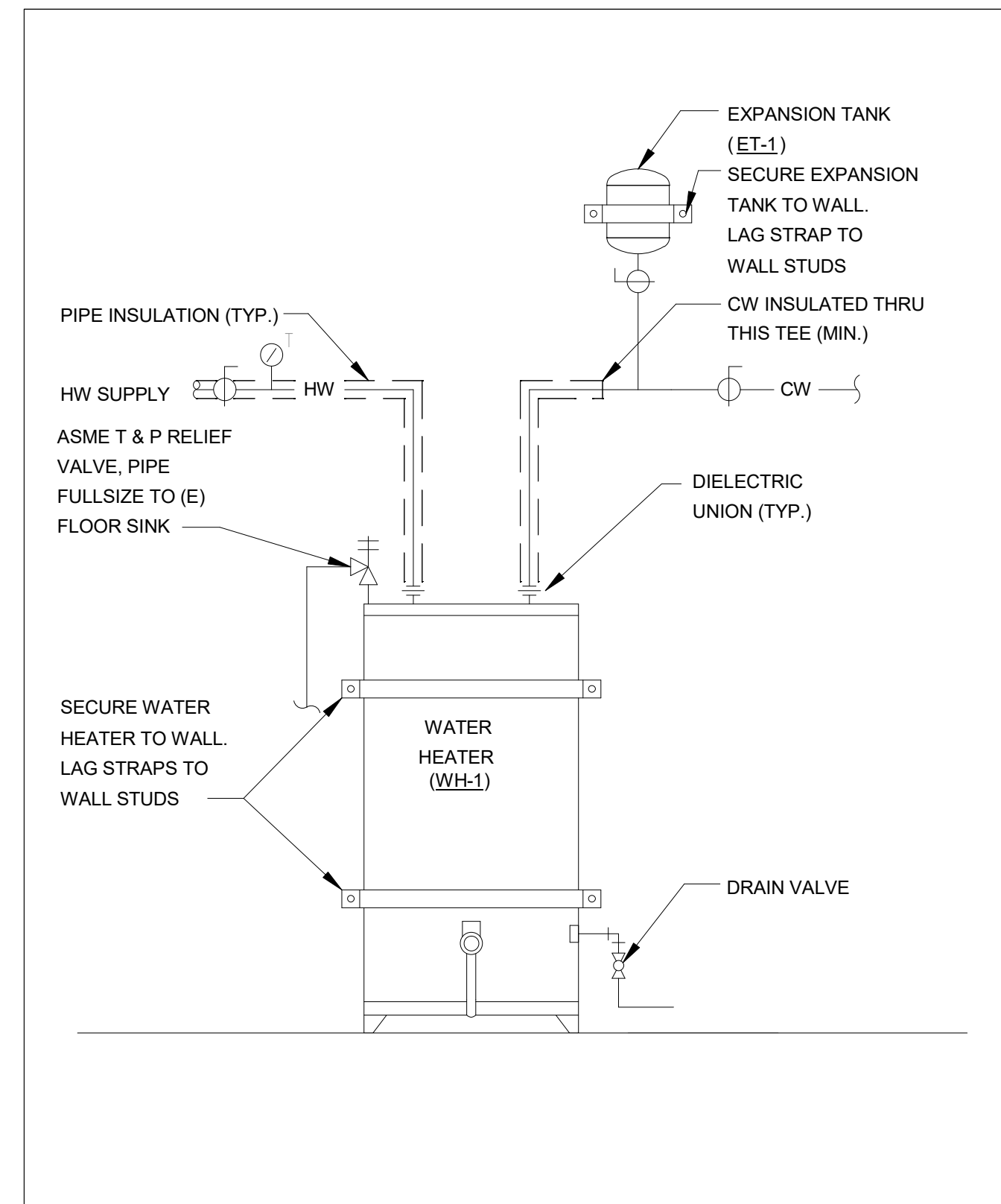
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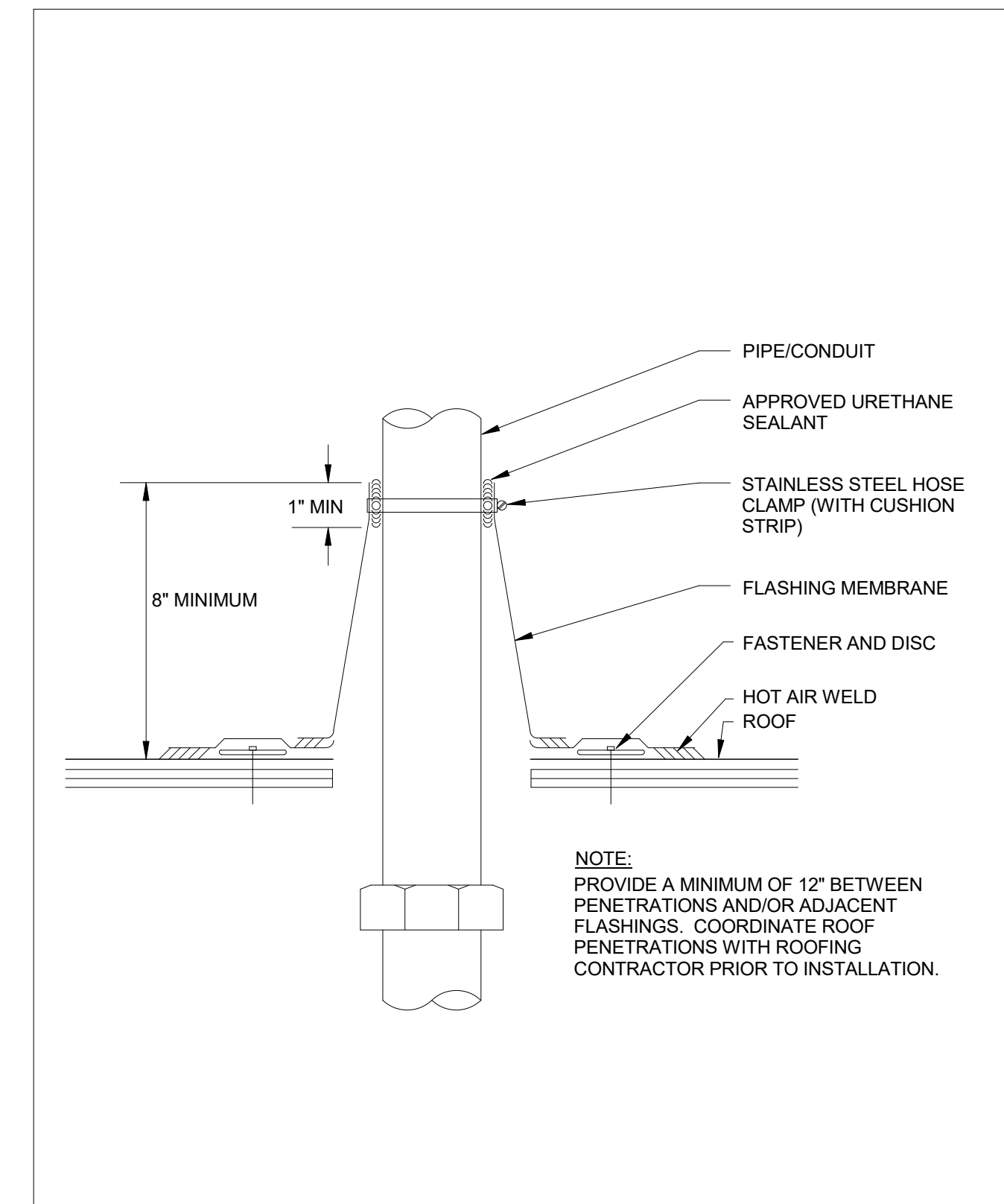
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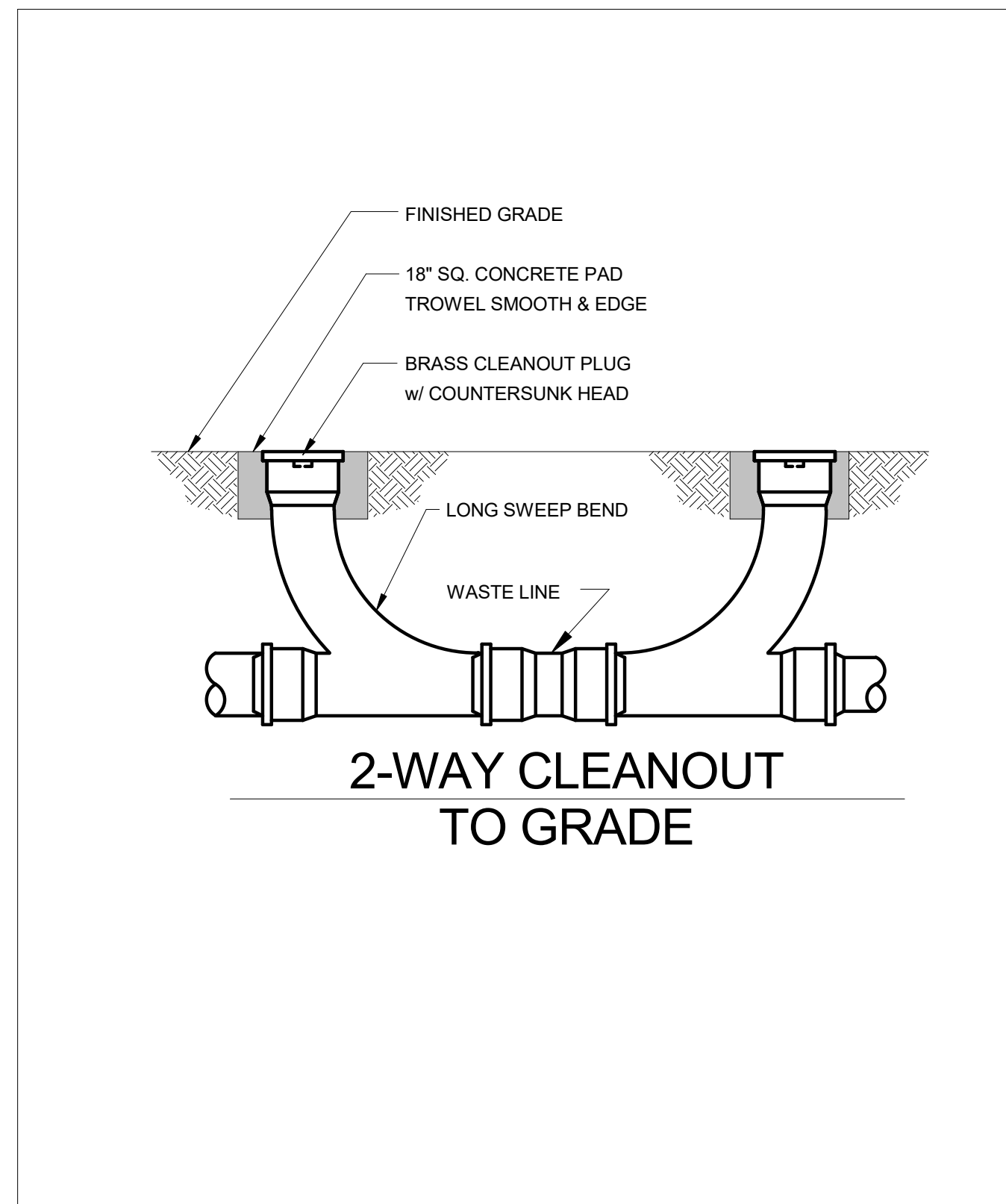
1 WALL CLEANOUT AND FLOOR DRAIN
P6.0 SCALE:NONE



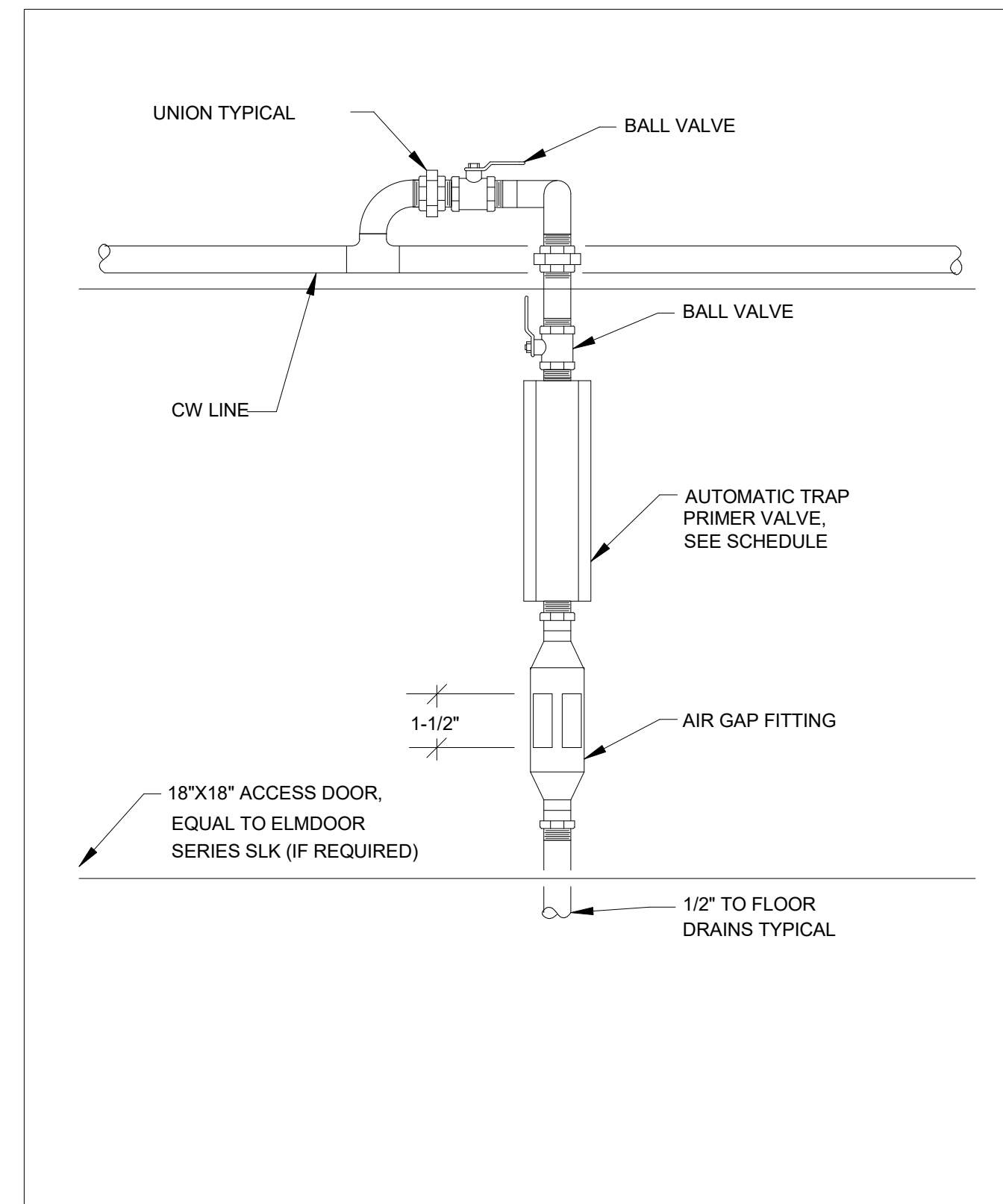
2 WATER HEATER DETAIL
P6.0 SCALE:NONE



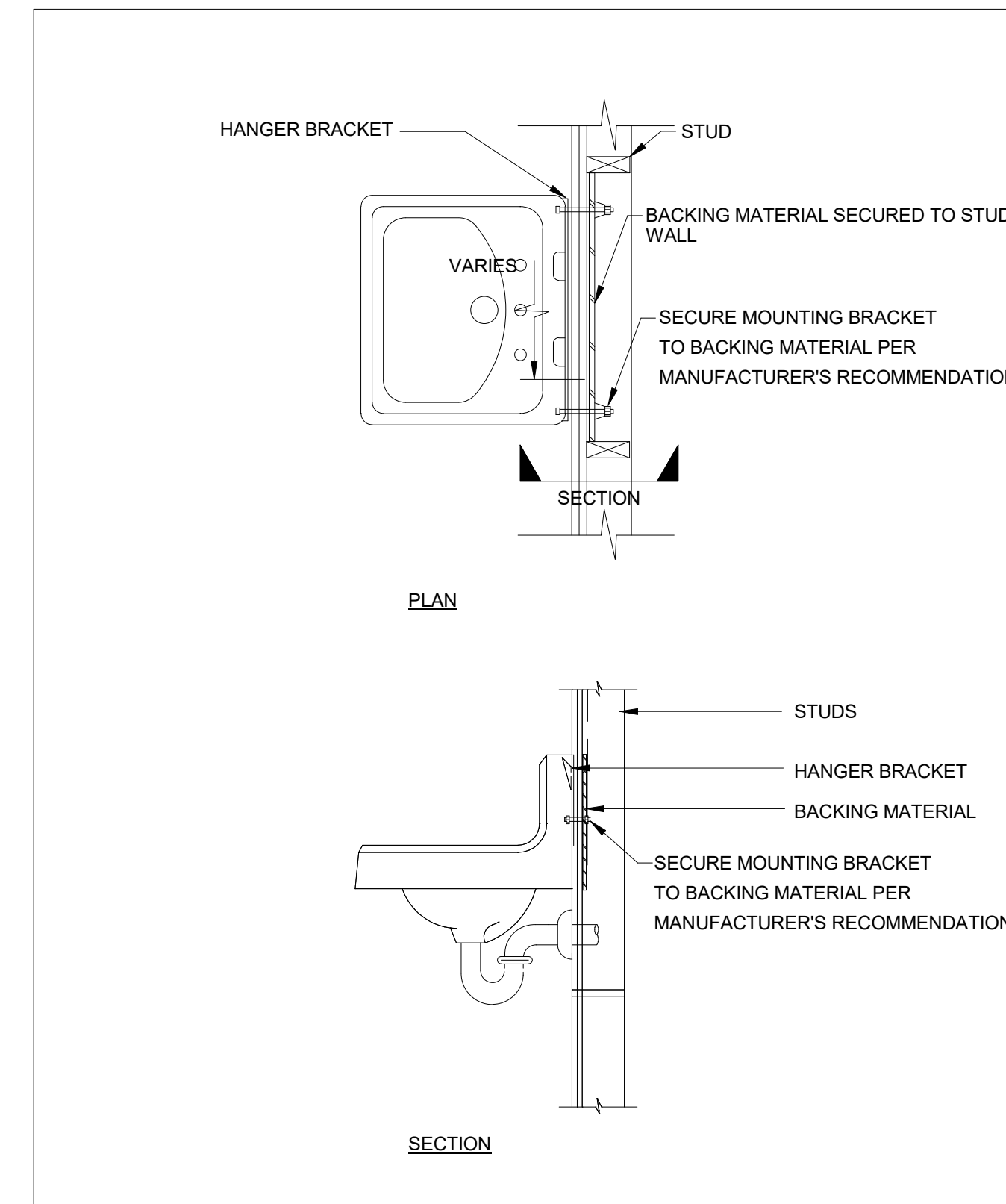
3 PIPE/CONDUIT FLASHING DETAIL
P6.0 SCALE:NONE



4 DUAL GRADE CLEANOUT
P6.0 SCALE:NONE

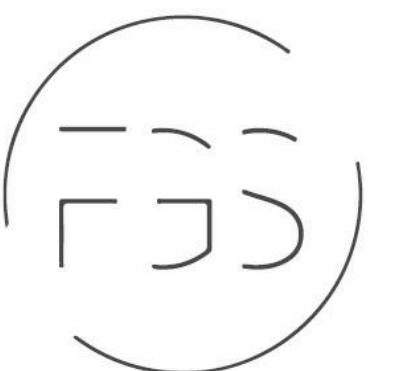


5 TRAP PRIMER DETAIL
P6.0 SCALE:NONE



6 LAVATORY WALL CARRIER MOUNTING
P6.0 SCALE:NONE

PLUMBING DETAILS
P6.0



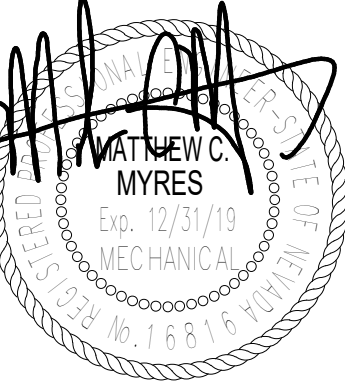
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ELECTRICAL SYMBOLS

CONDUIT AND RACEWAY		MOUNTING (UON)
	CONDUIT RUN IN OR ON CEILING OR WALL.	NA
	CONDUIT RUN IN FLOOR, UNDER FLOOR, OR UNDERGROUND.	NA
	MARKS INDICATE QTY OF CONDUCTORS IN CONDUIT EXCLUDING GROUND. NO MARKS INDICATE (2) CONDUCTORS. ADD GROUND PER NEC FOR EMT & NON-METALLIC CONDUIT.	NA
	LONG MARK INDICATES GROUND FOR ISOLATED GROUNDING SYSTEM. SIZE PER NEC.	NA
	BRANCH CIRCUIT (DIAGRAMMATIC)	NA
	HOMERUN INDICATING PANEL AND CIRCUIT NUMBER.	NA
	HOMERUN WITH CIRCUIT NUMBER IN BRACKETS INDICATING MULTI-PHASE LOAD.	NA
	ON INDICATES CIRCUITING SPLIT AT DIFFERENT LOCATIONS	NA
	CONDUIT UP.	NA
	CONDUIT DOWN.	NA
	CONDUIT STUB AND CAP.	NA
POWER DEVICES		MOUNTING (UON)
	SIMPLEX CONVENIENCE OUTLET, +18" AFF (TYPICAL).	W
	DUPLEX CONVENIENCE OUTLET, +18" AFF (TYPICAL).	W
	DUPLEX CONVENIENCE OUTLET, COUNTER HEIGHT +48" AFF (TYPICAL).	W, FVMH
	CONVENIENCE OUTLET W/ GFCI PROTECTION.	W
	CONVENIENCE OUTLET W/ GFCI PROTECTION & WEATHER PROOF-IN-USE COVER.	W, FVMH
	DUPLEX CONVENIENCE OUTLET W/ DEDICATED CIRCUIT & ISOLATED GROUND.	W
	DOUBLE DUPLEX CONVENIENCE OUTLET.	W
	DUPLEX CONVENIENCE OUTLET, CEILING MOUNTED, FVMH.	C, FVMH
	FLOOR BOX.	FL
	SPECIAL PURPOSE OUTLET, NEMA CONFIGURATION AND VOLTAGE AS NOTED.	W, FVMH
	JUNCTION BOX, SPECIFIC USE AS NOTED.	W, FVMH
EQUIPMENT		MOUNTING (UON)
	EQUIPMENT CALLOUT.	
	FRACTIONAL HORSEPOWER MOTOR RATED MANUAL STARTER.	W
	DISCONNECT, HEAVY DUTY, NON-FUSIBLE.	W
	DISCONNECT, HEAVY DUTY, FUSIBLE.	W, FVMH
	MAGNETIC MOTOR STARTER.	W
	COMBINATION MOTOR STARTER & DISCONNECT.	W, FVMH
	VARIABLE FREQUENCY DRIVE.	W
	ELECTRICAL PANEL, SURFACE MOUNTED.	W
	ELECTRICAL PANEL, FLUSH MOUNTED.	C, FVMH
	TRANSFORMER.	FL
	DISTRIBUTION PANELBOARD.	W, FVMH
	INVERTER.	W, FVMH
	AUXILIARY SYSTEM CABINET.	W, FVMH
	TELECOMMUNICATIONS TERMINATION BOARD.	W, FVMH
	EMERGENCY SHUT OFF SWITCH.	W, FVMH

ELECTRICAL SYMBOLS

LIGHTING (REFER TO LIGHTING FIXTURE SCHEDULE FOR DETAILS)		MOUNTING (UON)
	LIGHTING FIXTURE TAG, INDICATING FIXTURE ID.	
	HALF SHADING AND/OR 'EM' TAG INDICATES FIXTURE W/ 90 MIN. EMERGENCY BACKUP.	W
	RECESSED VOLUMETRIC TROFFER, 1'x4', 2'x2', 2'x4'	C
	STRIP LIGHT FIXTURE.	C
	LINEAR LIGHTING FIXTURE.	C, W, FL
	RECESSED SQUARE DOWNLIGHT FIXTURE.	C
	RECESSED AND/OR SEMI-RECESSED ROUND DOWNLIGHT FIXTURE.	C
	TRACK AND TRACK LIGHT FIXTURE.	C, W
	VANITY FIXTURE.	W
	EXIT SIGN, SINGLE FACE. ARROWS INDICATE PATH OF EGRESS. REFER TO PLANS FOR MOUNTING. ON UNSWITCHED LEG.	FVM
	EXIT SIGN, DOUBLE FACE. ARROWS INDICATE PATH OF EGRESS. REFER TO PLANS FOR MOUNTING. ON UNSWITCHED LEG.	FVM
	EMERGENCY EGRESS FIXTURE W/ 90 MIN. EMERGENCY BACKUP & TWIN HEADS ON UNSWITCHED LEG.	C, W
LIGHTING CONTROLS		MOUNTING (UON)
	LIGHT SWITCH, SINGLE POLE, +48" AFF.	W
	DUAL LEVEL SWITCHING, ONE SWITCH TO CONTROL OUTBOARD LAMPS, ONE SWITCH TO CONTROL INBOARD LAMPS. PROVIDE (3)#12s IN FLEX TO FIXTURES.	W
	THREE-WAY SWITCH, +48" AFF.	W
	FOUR-WAY SWITCH, +48" AFF.	W
	KEYED SWITCH, +48" AFF.	W
	LIGHT SWITCH, SINGLE POLE, LIGHTED HANDLE, +48" AFF.	W
	FRACTIONAL HORSEPOWER MOTOR RATED MANUAL STARTER.	FVM
	LOW VOLTAGE MOMENTARY OVERRIDE SWITCH, +48" AFF.	W
	LOW VOLTAGE DIMMING SWITCH, +48" AFF.	W
	LOW VOLTAGE DIMMING SWITCH, DUAL TECHNOLOGY OCCUPANCY SENSOR +48" AFF.	W
	DIGITAL TIME SWITCH, +48" AFF.	W
	MOMENTARY CONTACT SWITCH, +48" AFF.	W
	OCCUPANCY SENSOR, DUAL TECHNOLOGY.	C
	PHOTOELECTRICAL SENSOR.	C

ABBREVIATIONS

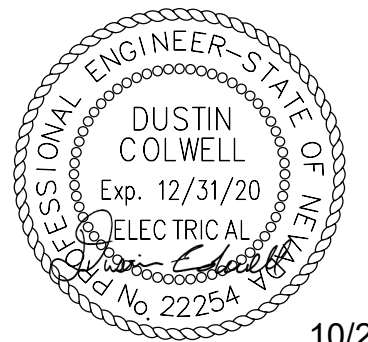
1P	ONE POLE
1PH	SINGLE PHASE
2/C	TWO-CONDUCTOR
2P	TWO POLE
3/C	THREE-CONDUCTOR
3P	THREE POLE
3PH	THREE PHASE
3W	THREE WIRE
4PDT	FOUR POLE DOUBLE THROW
4PST	FOUR POLE SINGLE THROW
4W	FOUR WIRE
A	AMPERE
A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJACENT
AFC	AVAILABLE FAULT CURRENT
AFF	ABOVE FINISHED FLOOR / GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ALCP	AREA LIGHT CONTACTOR PANEL
ALT	ALTERNATE
AMP	AMPERE
APPROX.	APPROXIMATE / APPROXIMATELY
AR	AS REQUIRED
ARCH	ARCHITECTURAL / ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BB	BUCK BOOST
BFB	BACK FEED BREAKER
BLDG	BUILDING
BRKR	BREAKER
BTU	BRITISH THERMAL UNIT
C	CEILING
CATV	COMMUNITY ANTENNA TELEVISION
CB	CIRCUIT BREAKER
CFBA	CUSTOM COLOR / FINISH SELECTED BY ARCHITECT
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CL	CIRCUIT
CL	CENTERLINE
CLG	CEILING
CO	CONVENIENCE OUTLET, RECEPTACLE
CU	COPPER
DA	DAMPER ACTUATOR
dB	DECIBEL, UNIT OF SOUND LEVEL
DEMO	DEMOLITION
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DN	DOWN
DPDT	DOUBLE POLE DOUBLE THROW
DWG	DRAWINGS
E	EAST
EA	EACH
EC	EMPTY CONDUIT WITH PULL WIRE
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATOR
EM	EMERGENCY
EMT	ELECTRICAL METALLIC CONDUIT
ENT	ELECTRICAL NONMETALLIC CONDUIT

ABBREVIATIONS

EPO	EMERGENCY POWER OFF
EQUIP	EQUIPMENT
EXIST	EXISTING
FA	FIRE ALARM
FAA	FIRE ALARM ANNUCIATOR
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FLA	FULL LOAD AMPERES
FMC	FLEXIBLE METAL CONDUIT
FPEN	FUSE PER EQUIPMENT NAMEPLATE
FSD	FIRE SMOKE DAMPER
FVM	FIELD VERIFY MOUNTING
FVMH	FIELD VERIFY MOUNTING HEIGHT
FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
G	GROUND
GALV	GALVANIZED
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GND	GROUND
HD	HEAVY DUTY
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPS	HIGH-PRESSURE SODIUM
HV	HIGH VOLTAGE
HVAC	HEATING, VENTILATION & AIR CONDITIONING
Hz	HERTZ, UNIT OF FREQUENCY
I/O	INPUT / OUTPUT
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
INIS	INSULATED / ISOLATED
IR	INFRARED
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KVAR	KILOVOLT AMPERE REACTIVE
KW	KILOWATT
KWH	KILOWATT HOUR
LED	LIGHT EMITTING DIODE
LFMC	LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT
LPS	LOW-PRESSURE SODIUM
LRA	LOCKED ROTOR AMPERES
LTG	LIGHTING
LV	LOW VOLTAGE
MAX	MAXIMUM
MC	METAL CLAD
MCA	MINIMUM CIRCUIT AMPERES
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MAN HOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVER-CURRENT PROTECTION
N	NORTH
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION
NFC	NATIONAL FIRE CODE

ABBREVIATIONS

NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OCF	OWNER FURNISHED CONTRACTOR INSTALLED
OFI	OWNER FURNISHED OWNER INSTALLED
OHD	OVERHEAD DOOR
OL	OVERLOAD
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
R	REMOVE / DEMOLISH
RCP	REFLECTED CEILING PLAN
REF	REFRIGERATOR
REV	REVISIONS / REVISED
RMC	RIGID METAL CONDUIT
RNC	RIGID NONMETALLIC CONDUIT
RPM	REVOLUTIONS PER MINUTE
RR	REMOVE & RELOCATE
S	SOUTH
S/N	SWITCH NEUTRAL
S/S	START / STOP
SCA	SHORT CIRCUIT AMPERES
SF	SQUARE FOOT / FEET
SFBA	STANDARD FINISH / COLOR BY ARCHITECT
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE POLE DOUBLE THROW
SPEC	SPECIFICATION
SPST	SINGLE POLE SINGLE THROW
SQ	SQUARE
ST	SINGLE THROW
STRUCT	STRUCTURAL
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TEMP	TEMPORARY
TL	TWISTLOCK
TP	TWISTED PAIR
TSP	TWISTED SHIELDED PAIR
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION (CABLE)
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UF	UNDERFLOOR / UNDERSLAB
UGND	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UNSW	UNSWITCHED
UPS	UNINTERRUPTIBLE POWER SOURCE
V	VOLTS / VOLTAGE
VA	VOLT AMPERE
VFD	VARIABLE FREQUENCY DRIVE
W	WEST
W	WITH
W/O	WITHOUT
WH	WATER HEATER
WP	WEATHER PROOF (NEMA 3R)
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
Y	WYE



10/21/2019

ELECTRICAL SYMBOL LEGEND & DRAWING SCHEDULE

e001



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nhudson@formgrey.com
[775] 848 9933

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City of Sparks

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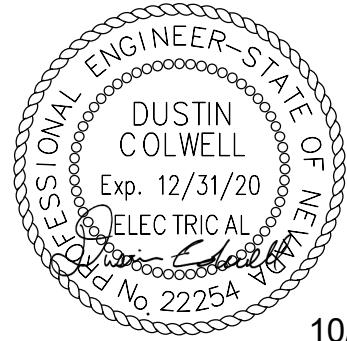
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PHONE: 775-787-7552
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GENERAL ELECTRICAL NOTES

1. THE SUBMISSION OF A BID BY THE CONTRACTOR IS NOTIFICATION THAT THE CONTRACTOR HAS TOTALLY FAMILIARIZED HIMSELF WITH THE CONTRACT DOCUMENTS AND EXISTING SITE CONDITIONS AND HAS AGREED TO PROVIDE THE NECESSARY LABOR AND MATERIAL FOR THE COMPLETE INSTALLATION OF EACH SYSTEM IN A NEAT AND WORKMANLIKE MANNER IN ACCORDANCE WITH THE BEST PRACTICES OF THE INDUSTRY AND IN COMPLIANCE WITH ALL AUTHORITIES HAVING JURISDICTION.
2. THESE DRAWINGS ARE PRESENTED TO THE CONTRACTOR WITH THE UNDERSTANDING THAT THE CONTRACTOR IS AN EXPERT AND COMPETENT IN THE PREPARATION OF CONTRACT BID PRICES ON THE BASIS OF INFORMATION SUCH AS IS CONTAINED IN THESE DOCUMENTS. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION AND IN COMPLETE CONFORMANCE WITH ALL APPLICABLE CODES, RULES, AND REGULATIONS. MINOR ITEMS NOT USUALLY SHOWN OR SPECIFIED, BUT MANIFESTLY NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE VARIOUS SYSTEMS, SHALL BE INCLUDED IN THE WORK AND IN THE PROPOSAL OF THE SAME AS IF SPECIFIED OR SHOWN ON THE DRAWINGS. IF ANY DEPARTURES FROM THE DRAWINGS ARE DEEMED NECESSARY, DETAILS OF SUCH DEPARTURES AND THE REASONS THEREFORE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. NO DEPARTURES SHALL BE MADE WITHOUT PRIOR APPROVAL.
3. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL DIMENSIONS IN THE FIELD, AND SHALL ADVISE THE OWNER OF ANY DISCREPANCIES BEFORE PERFORMING THE WORK.
4. THE DRAWINGS INDICATE ARRANGEMENTS, APPROXIMATE SIZES, AND RELATIVE LOCATIONS OF PRINCIPAL APPARATUS, EQUIPMENT, DEVICES, AND SERVICES TO BE PROVIDED. DRAWINGS ARE DIAGRAMMATIC AND ARE A GRAPHIC REPRESENTATION OF CONTRACT REQUIREMENTS BASED ON THE INFORMATION PROVIDED BY THE MANUFACTURER IDENTIFIED IN THE EQUIPMENT SCHEDULE AT THE SCALE INDICATED.
5. LAYOUT OF EQUIPMENT INDICATED ON THE DRAWINGS SHALL BE CHECKED AND COMPARED AGAINST ALL DRAWINGS AND SPECIFICATIONS OF ALL TRADES AND EXACT LOCATIONS DETERMINED USING APPROVED SHOP DRAWINGS OF SUCH EQUIPMENT. WHERE PHYSICAL INTERFERENCES OCCUR, CONSULT WITH THE OWNER AND PREPARE DATED, DIMENSIONED DRAWINGS COORDINATED WITH ALL OTHER TRADES WORKING IN THIS AREA AND CORRECTING SUCH INTERFERENCE.
6. THE CONTRACTOR SHALL SCHEDULE THEIR WORK IN ACCORDANCE WITH THE CONSTRUCTION SCHEDULE SO THAT ALL OF THEIR WORK CAN BE INSTALLED WITHOUT DELAYING THE PROJECT. ALL WORK RELATED TO SHUTDOWN OF EXISTING SERVICES SHALL BE PERFORMED AT THE HOURS DESIGNATED BY THE OWNER WITH ALL ASSOCIATED COSTS BORNE BY THE CONTRACTOR AT NO COST TO THE OWNER. PROVIDE ANY TEMPORARY FACILITIES REQUIRED TO PERMIT OWNER'S USE OF EXISTING FACILITIES AND SYSTEMS TO REMAIN UNDISTURBED. COORDINATE ALL WORK, INCLUDING ALL SHUTDOWNS THAT AFFECT SYSTEMS AND/OR PORTIONS OF THE BUILDING THAT MUST REMAIN IN OPERATION, WITH OWNER.
7. THE CONTRACTOR SHALL SECURE AND PAY ALL FEES, LICENSES, INSPECTIONS, AND PERMITS PERTAINING TO THE CONTRACT. SUBMIT TO OWNER DUPLICATE CERTIFICATES OF INSPECTION FROM APPROVED INSPECTION AGENCY.
8. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WORKMENS IDENTIFICATION AND BADGING, SAFETY AND FIRE PROTECTION, BARRICADES, WARNING SIGNS, TRASH REMOVAL, CUTTING AND PATCHING.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RIGGING, HANDLING, AND PROTECTION OF MATERIALS. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND WITHOUT BLEMISH OR DEFECT. ALL EQUIPMENT INSTALLED SHALL BEAR THE LABEL OF AN APPROVED AGENCY.
11. THE CONTRACTOR SHALL PROVIDE LABOR TO RECEIVE, UNLOAD, STORE, PROTECT, AND TRANSFER TO POINT OF INSTALLATION FOR ALL FURNISHED ITEMS.
12. WHERE CONDUIT, CABLES, DUCTWORK, OR PIPING PASSES THROUGH FIRE RATED FLOORS OR WALLS, THE PENETRATION SHALL BE COMPLETELY SEALED WITH A FIRE STOP MATERIAL THAT IS UL LISTED AND ACCEPTED BY THE BUILDING DEPARTMENT AND FIRE DEPARTMENT AS BEING SUITABLE FOR THIS SERVICE. THIS MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER TO MAINTAIN THE UL LISTED FIRE RATING OF THE PENETRATED WALL OR FLOOR.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SLAB OPENINGS, WALL OPENINGS, BEAM PENETRATIONS, AND CORING AS IT RELATES TO THEIR WORK. THE CONTRACTOR SHALL SUBMIT SIZE AND LOCATION FOR REVIEW AND APPROVAL.
14. ALL EXTERIOR WALL OPENINGS SHALL BE SLEEVED, PROPERLY CAULKED, AND SEALED WITH A HIGH QUALITY SEALANT TO PREVENT INFILTRATION OF MOISTURE AND OUTSIDE AIR.
15. THE CONTRACTOR SHALL SUBMIT SCHEDULE OF SUBMITTALS PRIOR TO SUBMITTING ANY SHOP DRAWINGS, ETC. TO BE SUBMITTED FOR THIS PROJECT, INCLUDING THE ANTICIPATED DATE OF EACH SUBMISSION. CONTRACTORS SHALL SUBMIT AN ELECTRONIC COPY OF THE COMPLETE SHOP DRAWINGS AND CATALOG CUTS, WIRING DIAGRAMS AND ASSOCIATED DATA TO THE OWNER FOR APPROVAL PRIOR TO PURCHASING EQUIPMENT OR STARTING ANY WORK. ANY WORK INSTALLED OR EQUIPMENT PURCHASED PRIOR TO RECEIPT OF OWNER APPROVED SUBMITTALS SHOP DRAWINGS THAT REQUIRES CHANGES SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
16. SUBMIT CATALOG INFORMATION, FACTORY ASSEMBLY DRAWINGS AND FIELD INSTALLATION DRAWINGS AS REQUIRED FOR A COMPLETE EXPLANATION AND DESCRIPTION OF ALL ITEMS TO BE PROVIDED. THE CONTRACTOR SHALL REVIEW AND APPROVE ALL SHOP DRAWINGS. NO SUBMISSION WILL BE ACCEPTED WITHOUT THE SIGNED APPROVAL OF THE CONTRACTOR. THE CONTRACTOR SHALL CHECK AND VERIFY ALL FIELD MEASUREMENTS.
17. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL SUPPLY THE OWNER WITH (3) COMPLETE BOUND COPIES OF ALL OWNER APPROVED SUBMITTALS AND ALL OPERATION AND MAINTENANCE MANUALS.
18. ALL WORK FURNISHED UNDER THE CONTRACT SHALL BE GUARANTEED AGAINST ANY AND ALL DEFECTS IN WORKMANSHIP AND/OR MATERIALS FOR A PERIOD OF NOT LESS THAN (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE INSTALLATION, UNLESS NOTED OTHERWISE IN THE PROJECT SPECIFICATIONS. ANY DEFECTS OF WORKMANSHIP DEVELOPING DURING THIS PERIOD SHALL BE REMEDIATED AND ANY DEFECTIVE MATERIAL REPLACED WITHOUT ADDITIONAL COST TO THE OWNER.
19. INSTALLED SYSTEMS SHALL OPERATE UNDER ALL CONDITIONS OF LOAD WITHOUT SOUND OR VIBRATION THAT IS OBJECTABLE TO THE OWNER; OBJECTABLE SOUND OR VIBRATION CONDITIONS DUE TO WORKMANSHIP SHALL BE CORRECTED IN APPROVED MANNER BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
20. THE CONTRACTOR SHALL SIMILARLY NOTIFY OWNER OF COMPLETION OF ALL WORK, INDICATING THE CONTRACTOR IS READY FOR THE OWNER TO PERFORM THE FINAL PUNCHLIST INSPECTION.
21. UPON COMPLETION OF ALL UNFINISHED OR FAULTY WORK NOTED IN THE OWNER'S FINAL PUNCH LIST, THE CONTRACTOR SHALL SUBMIT TO THE OWNER IN WRITING A LETTER OF COMPLETION CERTIFYING THAT ALL PUNCH LIST ITEMS HAVE BEEN COMPLETED AND ALL AS-BUILTS, MANUALS, ETC. HAVE BEEN SUBMITTED.
22. SHOULD A CONTRACTOR REQUIRE REMOVAL, RELOCATION, OR REROUTING OF ANOTHER TRADE'S WORK THAT IS NOT INDICATED ON DRAWINGS, THE CONTRACTOR REQUIRING SUCH WORK SHALL BE RESPONSIBLE FOR THAT WORK, AND PAY ALL REQUIRED COSTS.
23. ALL WORK INVOLVING ALTERATIONS TO EXISTING SYSTEMS, EQUIPMENT, AND MATERIALS SHALL BE REVIEWED WITH THE OWNER BEFORE BEGINNING WORK.
24. DEFINITION: UNLESS OTHERWISE NOTED, ALL WORK SPECIFIED HEREIN OR NOTED ON DRAWINGS, SHALL BE BY THE CONTRACTOR. THE TERM "PROVIDE" WHENEVER ENCOUNTERED ON DRAWINGS OR IN THESE SPECIFICATIONS, SHALL MEAN "FURNISH AND INSTALL."
25. CODES AND STANDARDS: ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES, INDUSTRY STANDARDS, UTILITY COMPANY REGULATIONS AND FIRE INSURANCE CARRIER'S REQUIREMENTS.
26. MATERIALS: ALL MATERIALS FURNISHED BY THIS CONTRACTOR, SHALL BE NEW AND BEAR THE LABEL OR LISTING OF A NATIONALLY RECOGNIZED INDEPENDENT TESTING LABORATORY.
27. OUTLET AND SWITCH BOXES: PROVIDE AND INSTALL OUTLET BOXES OF PROPER TYPE AND SIZE AS REQUIRED AT ALL OUTLETS WHERE SHOWN, SECURED FIRMLY IN PLACE AND SET TRUE AND SQUARE AND FLUSH WITH THE FINISHED SURFACE.
28. WIRING: WIRES SHALL BE COPPER AND RATED FOR THE LOCATIONS IN WHICH THEY ARE INSTALLED. ALL RACEWAYS ARE SHOWN DIAGRAMMATICALLY, EXACT LOCATION TO BE DETERMINED ON THE JOB. CONTRACTOR SHALL ARRANGE ALL NEW CIRCUITS IN PANELS SO AS TO BALANCE THE LOAD ON ALL PHASES.
29. A TYPED DIRECTORY CARD SHALL BE PROVIDED IN EACH PANEL WITH ADDED CIRCUITS TO INDICATE THE LOADS ACTUALLY SERVED.
30. GROUNDING: GROUNDING SHALL BE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 250. PROVIDE GROUND WIRES AS REQUIRED AND RESIZE CONDUIT IF NECESSARY.
31. FIRE ALARM: A COMPLETE FIRE ALARM SYSTEM DESIGN SHALL BE PROVIDED FOR THIS PROJECT BY DEFERRED SUBMITTAL.
32. DEMONSTRATION OF COMPLETE ELECTRICAL SYSTEMS: UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL OBTAIN A CERTIFICATE OF APPROVAL FROM THE RESPECTIVE INSPECTION AGENCIES. CONTRACTOR SHALL NOTIFY AND MAKE ALL THE NECESSARY ARRANGEMENTS WITH THE INSPECTING AGENCY AND LOCAL AUTHORITIES SO THAT INSPECTION MAY BE CARRIED OUT AT THE PROPER TIME.



10/21/2019

ELECTRICAL GENERAL NOTES AND DETAILS

e002



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nhudson@formgrey.com
[775] 848 9933

City of Sparks Rec Center Restroom ADA Upgrades

City of Sparks

**98 Richards Way
Sparks NV 89431**

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BRANCH PANEL: PANEL 'B'

LOCATION: VESTIBULE 111 VOLTS: 120/240 Single A.I.C. RATING: 10K
SUPPLY FROM: PHASES: 1 MAINS TYPE: MCB
MOUNTING: SURFACE WIRES: 3 MAINS RATING: 100 A
ENCLOSURE: TYPE 1 MCB RATING: 100 A

CKT	CIRCUIT DESCRIPTION	TRIP	A		B		POLES	TRIP	CIRCUIT DESCRIPTION	CKT	
			POLES	TRIP	POLES	TRIP					
1	(E) LOAD	20 A	1	0 VA	0 VA	0 VA	0 VA	1	20 A	(E) LOAD	2
3	(E) LOAD	20 A	1			0 VA	0 VA	1	20 A	(E) LOAD	4
5	(E) LOAD	20 A	1	0 VA	0 VA			1	20 A	(E) LOAD	6
7	(N) EF-1 & EF-2 AND LIGHTING	20 A	1			501 VA	0 VA	1	20 A	(E) LOAD	8
9	(E) LOAD	20 A	1	0 VA	0 VA			1	20 A	(E) LOAD	10
11	(E) LOAD	20 A	1			0 VA	0 VA	1	20 A	(E) LOAD	12
13	PWR FAUCET & FLUSH, & DF-1	20 A	1	1420 VA	0 VA			1	20 A	(E) LOAD	14
15	WH-1	30 A	2			2250 VA	0 VA	1	20 A	(E) LOAD	16
17				2250 VA	0 VA			1	20 A	(E) LOAD	18
19	(E) LOAD	20 A	1			0 VA	0 VA	1	20 A	(E) LOAD	20
21	(E) LOAD	20 A	1	0 VA	0 VA			1	20 A	(E) LOAD	22
23	(E) LOAD	20 A	1			0 VA	0 VA	1	20 A	(E) LOAD	24
25	(E) LOAD	20 A	1	0 VA	0 VA			1	20 A	(E) LOAD	26
27	(E) LOAD	20 A	1			0 VA	0 VA	1	20 A	(E) LOAD	28
29	(E) LOAD	20 A	1	0 VA	0 VA			1	20 A	(E) LOAD	30
TOTAL LOAD:				3670 VA		2751 VA					
TOTAL AMPS:				31 A		23 A					

LOAD CLASSIFICATION	CONNECTED LOAD		DEMAND FACTOR	EST. DEMAND	PANEL TOTALS	
	VA	AMPS			VA	AMPS
EQUIPMENT	5575 VA		100.00%	5575 VA		
RECEPTACLE	720 VA		100.00%	720 VA		TOTAL CONN. LOAD: 6421 VA
LIGHTING	126 VA		125.00%	158 VA		TOTAL EST. DEMAND: 6453 VA
						TOTAL CONN.: 27 A
						TOTAL EST. DEMAND: 27 A

NOTES:
ALL CONNECTED LOAD INFORMATION FOR THE EXISTING PANEL IS UNKNOWN. CONTRACTOR SHALL CALCULATE THE EXISTING PANEL LOAD BASED ON THE MAXIMUM DEMAND CONTINUOUSLY RECORDED OVER A MINIMUM 7 DAY PERIOD. MAXIMUM DEMAND SHALL BE RECORDED USING AN AMMETER OR POWER METER CONNECTED TO EACH PHASE OF THE FEEDER OR SERVICE. THE RECORDING SHALL REFLECT THE MAXIMUM DEMAND OF THE FEEDER OR SERVICE BEING TAKEN WHEN BUILDING OR SPACE IS OCCUPIED. RECORDING SHALL INCLUDE MEASUREMENT OR CALCULATION OF THE LARGEST EQUIPMENT LOAD(S) THAT MAY BE PERIODIC IN NATURE DUE TO SEASONAL OR SIMILAR CONDITIONS.

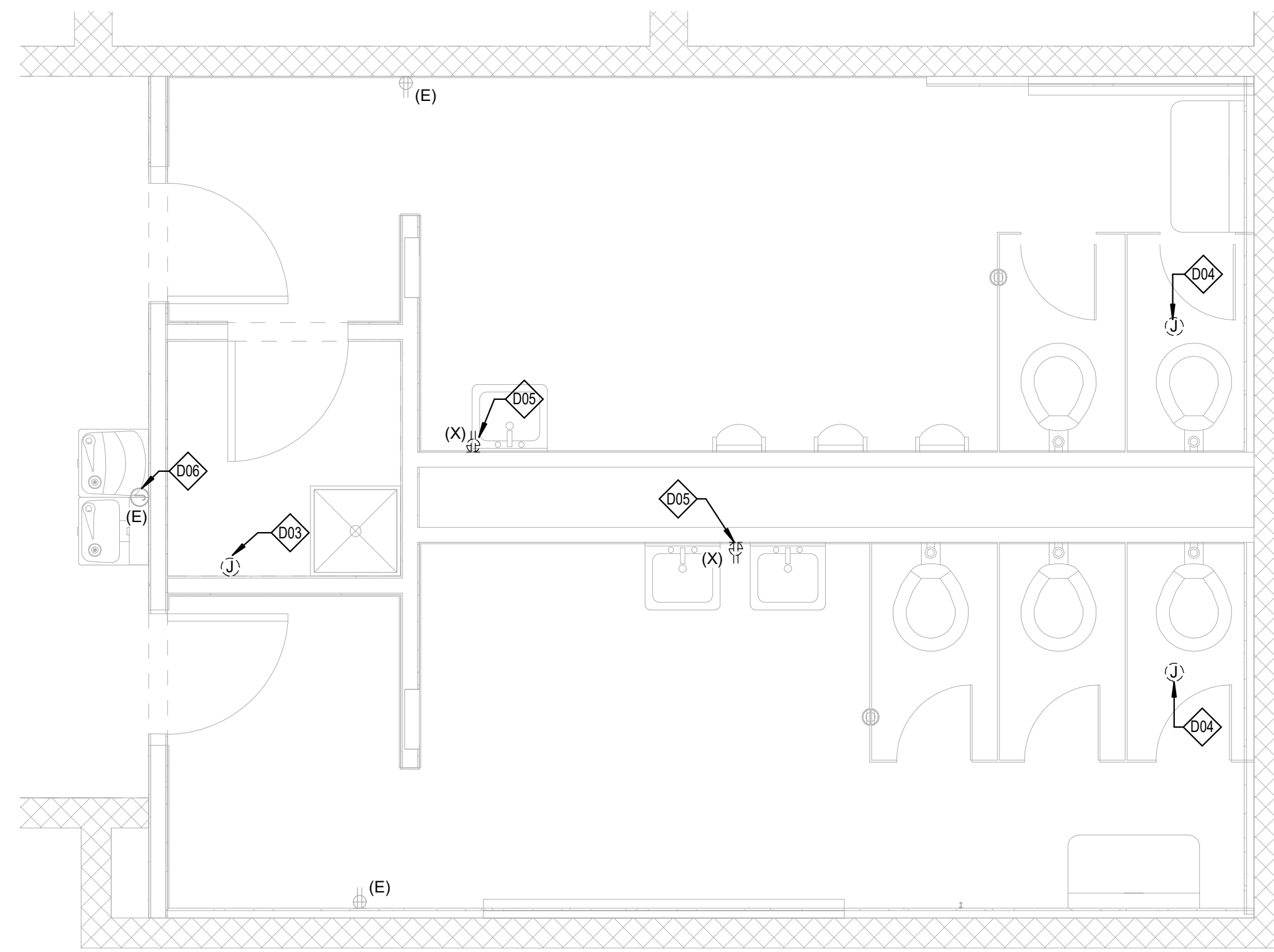
BUILDING LIGHTING FIXTURE SCHEDULE

FIXTURE ID	DESCRIPTION	SOURCE	VOLTAGE	LOAD	MOUNTING	MANUFACTURER & MODEL NUMBER	NOTES	PANEL - CIRCUIT
L1	2x2 SURFACE MOUNT LED PANEL	LED	120 V	21 VA	SURFACE	METALUX 22FP2140C-FPSURF22		PANEL 'B'-7
L1E	2x2 SURFACE MOUNT LED PANEL WITH 90-MINUTE EMERGENCY BATTERY PACK	LED	120 V	21 VA	SURFACE	METALUX 22FP2140C-EL7W-FPSURF22		PANEL 'B'-7

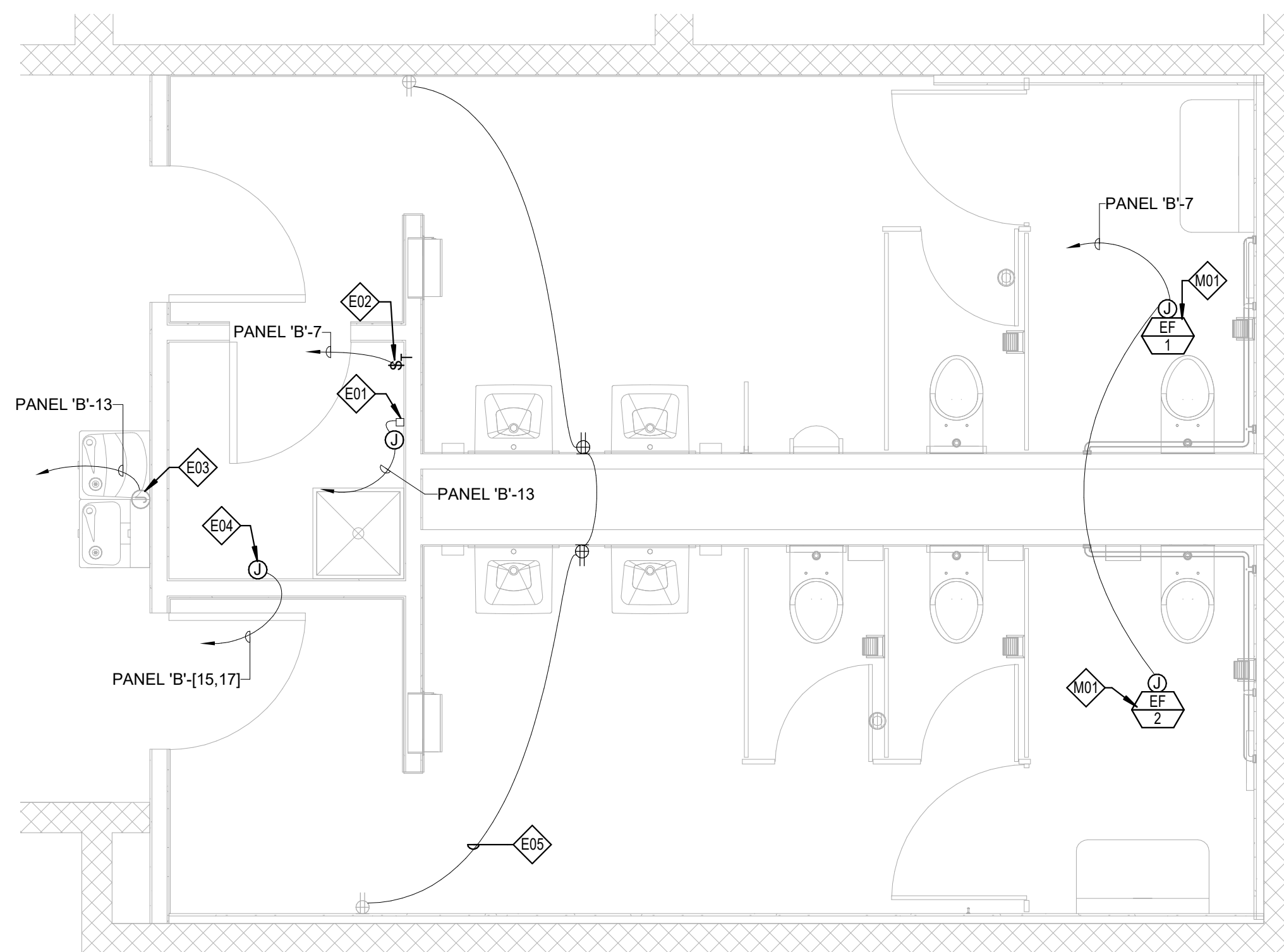
MECHANICAL EQUIPMENT SCHEDULE

EQUIPMENT ID	EQUIPMENT DESCRIPTION	COORDINATING DISCIPLINE	VOLTAGE/POLES-LOAD	CONDUIT AND WIRE SIZE*	DISCONNECT MEANS AND SIZE	PANEL - CIRCUIT	NOTES	EQUIPMENT ID
(N) EF-1	NEW EXHAUST FAN EF-1	MECHANICAL	120 V/1-150 VA	EXISTING	EXISTING	PANEL 'B'-7		(N) EF-1
(N) EF-2	NEW EXHAUST FAN EF-2	MECHANICAL	120 V/1-225 VA	EXISTING	EXISTING	PANEL 'B'-7		(N) EF-2
(N) WH-1	NEW WATER HEATER	MECHANICAL	240 V/2-4500 VA	EXISTING	EXISTING	PANEL 'B'-15,17		(N) WH-1
(N) XFMR	24V TRANSFORMER	MECHANICAL	120 V/1-100 VA	EXISTING	EXISTING	PANEL 'B'-13	1	(N) XFMR
DF-1	DRINKING FOUNTAIN	MECHANICAL	120 V/1-600 VA	EXISTING	EXISTING	PANEL 'B'-13		DF-1

NOTES:
1. FIELD VERIFY MOUNTING HEIGHT AND LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.



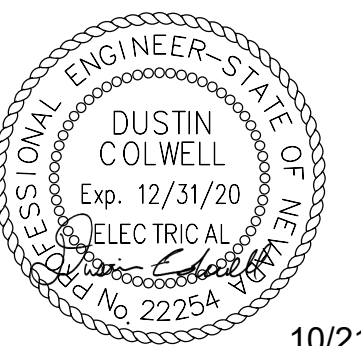
2 ELECTRICAL FLOOR PLAN - DEMO
SCALE: 3/8" = 1'-0"



1 ELECTRICAL FLOOR PLAN - NEW
SCALE: 3/8" = 1'-0"

◆ SHEET KEYNOTES

- D03 DISCONNECT EXISTING WATER HEATER. SAVE AND PROTECT CONDUIT AND CONDUCTORS FOR NEW WATER HEATER. SEE MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- D04 DISCONNECT EXISTING EXHAUST FAN. SAVE AND PROTECT CONDUIT AND CONDUCTORS FOR NEW EXHAUST FAN. SEE MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- D05 EXISTING RECEPTACLE TO DEMOLISHED. REMOVE CABLE BACK TO NEAREST PULL POINT.
- D06 DISCONNECT DRINKING FOUNTAINS. SAVE AND PROTECT ALL CONDUIT AND CONDUCTORS TO BE RE-USED FOR NEW DRINKING FOUNTAINS.
- E01 PROVIDE 24V TRANSFORMER FOR POWER FLUSH VALVES AND ELECTRONIC SENSOR FAUCETS. CONNECT TO EXISTING RECEPTACLE CIRCUIT PANEL 'B' CIRCUIT 13. PROVIDE LOW VOLTAGE CABLES TO NEW PLUMBING FIXTURES. SEE MECHANICAL PLANS FOR LOCATIONS AND DETAILS.
- E02 PROVIDE TIME SWITCH FOR RESTROOM EXHAUST FAN OPERATION. COORDINATE WITH OWNER FOR TIME SCHEDULE.
- E03 CONNECT NEW ELECTRIC DRINKING FOUNTAINS TO EXISTING ELECTRICAL CIRCUIT. FIELD VERIFY CIRCUIT.
- E04 CONNECT NEW WATER HEATER TO EXISTING ELECTRICAL CIRCUIT. FIELD VERIFY CIRCUIT.
- E05 RECONNECT OUTLETS TO CIRCUIT PANEL 'B' CIRCUIT 13. INSTALL NEW CONDUITS AND CABLES AS NECESSARY.
- M01 CONNECT EXHAUST FANS EF-1 AND EF-2 TO TIME SWITCH IN JANITOR CLOSET.



10/21/2019

ENLARGED POWER PLANS

e201



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650 S. ROCK BLVD. RENO, NV 89502
nhudson@formgrey.com
[775] 848 9933

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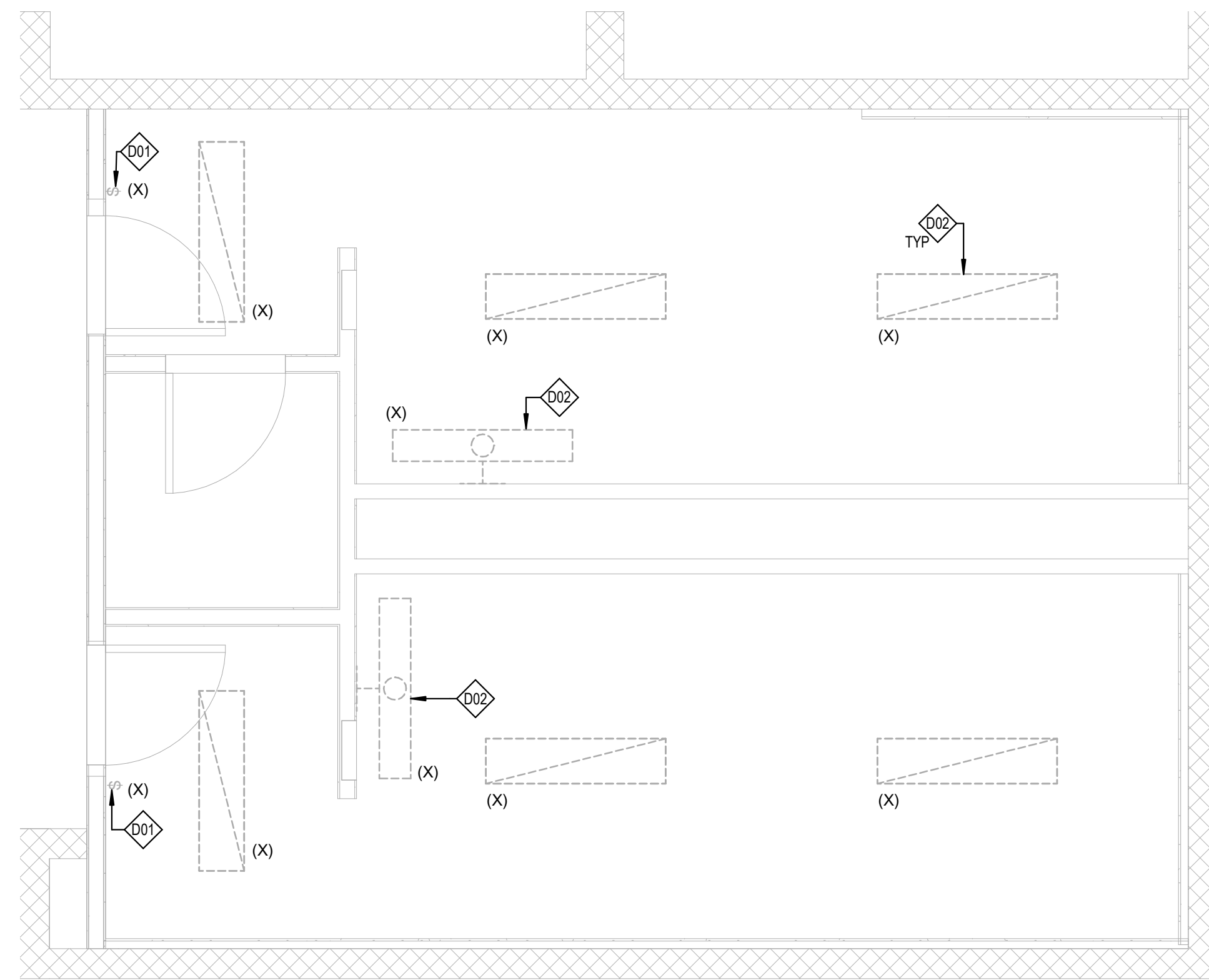
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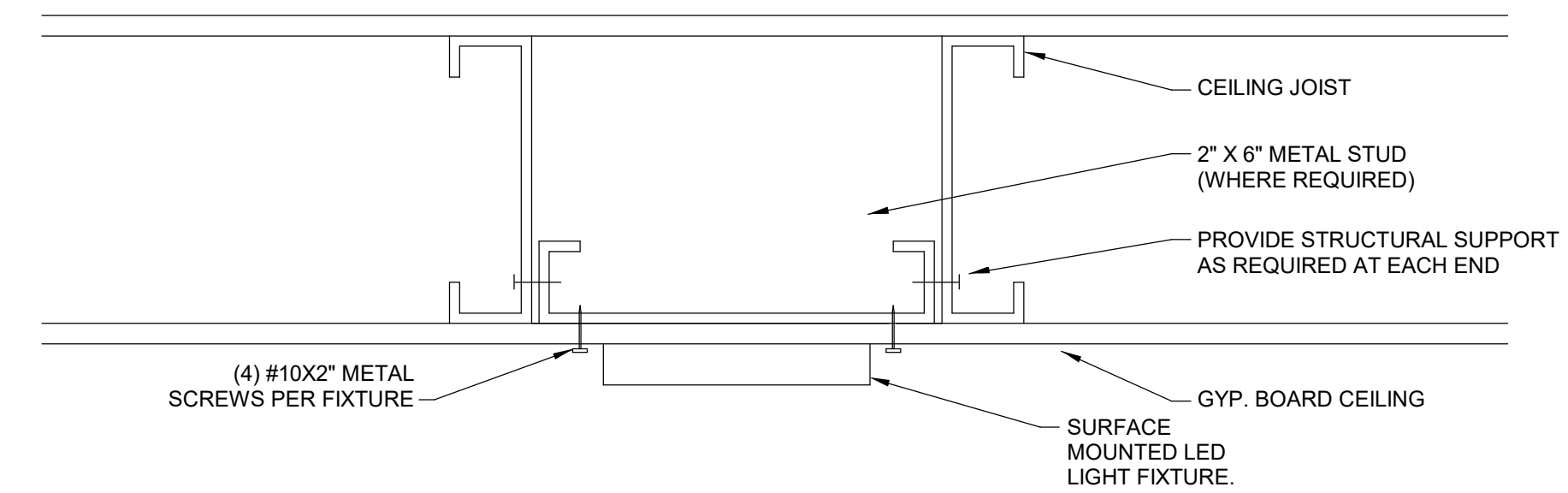
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◆ SHEET KEYNOTES

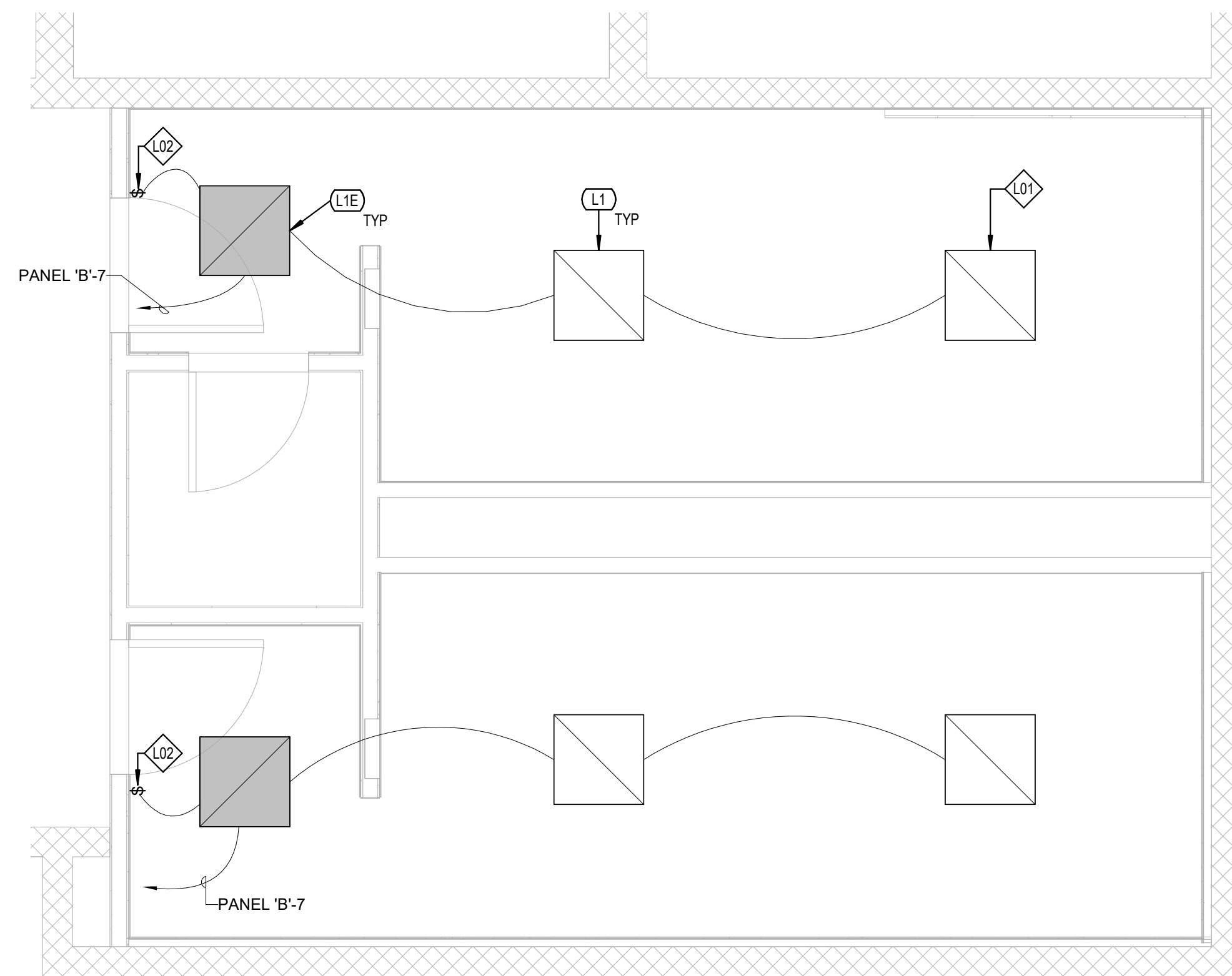
- D01 EXISTING WIRING DEVICE TO BE DEMOLISHED.
- D02 EXISTING LIGHTING FIXTURE TO BE DEMOLISHED. SAVE AND PROTECT ALL CONDUIT AND CONDUCTORS TO BE RE-USED FOR NEW LIGHTING FIXTURE CONNECTIONS.
- L01 CONNECT NEW LIGHTING TO EXISTING ELECTRICAL CIRCUIT.
- L02 PROVIDE NEW TOGGLE LIGHT SWITCH, VERIFY SWITCH STYLE AND FINISH WITH ARCHITECT.



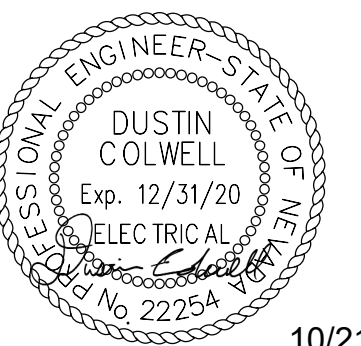
1 ENLARGED LIGHTING PLAN - DEMO
SCALE: 3/8" = 1'-0"



3 SURFACE MOUNTED LED PANEL DETAIL
SCALE: N.T.S.



2 ENLARGED LIGHTING PLAN - NEW
SCALE: 3/8" = 1'-0"



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ENLARGED LIGHTING PLANS

e301



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[775] 848 9933

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5370 KIETZKE LANE SUITE 100 RENO, NV 89511
PHONE: 775-787-7552
WWW.KIMLEY-HORN.COM

BID SET- NOT FOR CONSTRUCTION 10/21/2019