

# Sparks Recreation Center Restroom Renovation

APN: 028-330-57

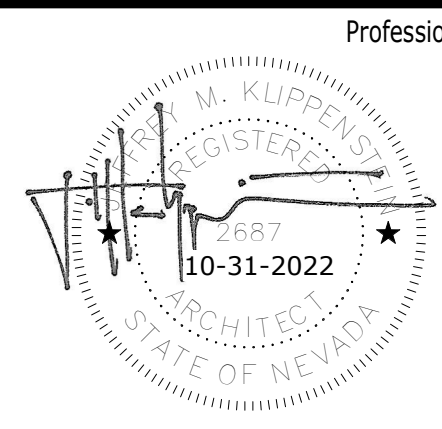
City of Sparks  
98 Richards Way  
Sparks, NV 89431

October 31, 2022

100% Construction Drawings

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**H+K ARCHITECTS**

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**Sparks Recreation Center  
Restroom Renovation**

APN: 028-330-57  
98 Richards Way  
Sparks, NV 89431

Title Sheet

October 31, 2022  
H+K Project No: 2222

**G100**



Abbreviations			
& @ (e) _l #	And At Existing Perpendicular Pound or Number	<b>E</b> Ea. Etc. E.W.C. Elec. Elev. Emer. Encl. Eq. Equip. Exh. Exp. E.J. Ext.	Each Etcetera Electric Water Cooler Electrical Elevation Emergency Enclosure Equal Equipment Exhaust Expansion Expansion Joint Exterior
<b>A</b> Adj. Aggr. Alt. Alum. Approx. Arch. A.C.	Adjustable Aggregate Alternate Aluminum Approximately Architectural/Architect Asphalt Concrete	<b>F</b> F.O. Fin. F.G. F.E. F.E.C. Fprf. Fixt. Flsh. Flr. F.D. F.L. Ft. Ftg. Fdn. FBO Furr. Fut.	Face of Finish Finish Grade Fire Extinguisher Fire Extinguisher Cabinet Fixture Flashing Floor Floor Drain Flow Line Foot Footing Foundation Furnished by Others Furnishing Future
<b>B</b> Bm. Bk. Blkg. Bd. B.O. Bldg. B.U.R.	Beam Block Blocking Bottom Bottom of Building Built up Roofing	<b>G</b> Galv. G.I. Ga. Gen. Gl. GLB Gyp.	Galvanized Galvanized Iron General Glass Glue-Laminated Beam Gypsum
<b>C</b> C.I. C.B. Clg. Cir. C.L. Cer. C.O. C.W. Col. Conc. Conn. Const. C.J. Contin. Contr. Cu. Ft.	Cast Iron Catch Basin Ceiling Center Center Line Ceramic Cleanout Cold Water Column Concrete Connection Construction Construction Joint Continuous Contractor Cubic Foot	<b>H</b> Ht. H.C. H.M. Horiz. H.B. H.W. Hr.	Height Hollow Core Hollow Metal Horizontal Hose Bibb Hot Water Hour
<b>D</b> D.G. Dept. Det. Dia. Diff. Dim. Dbl. DN D.S. Dwg. D.F.	Decomposed Granite Department Detail Diameter Diffuser Dimension Double Down Downspout Drawing Drinking Fountain	<b>I</b> In. I.D. Insul. Int.	Inch(es) Inside Diameter Insulation Interior
<b>J</b> Jt.	Joint	<b>L</b> Lab Lav. Lt.	Laboratory Lavatory Light
<b>M</b> Mfr. M.O. Max. Mech. Membr. Met. Min. Misc. MPH Mid.	Manufacturer Masonry Opening Maximum Mechanical Membrane Metal Minimum Miscellaneous Miles per hour Mounted	<b>N</b> Nom. N.I.C. N.T.S. No.	Nominal Not in Contract Not to Scale Number
<b>O</b> O.C. O.D. O.H.	On Center Outside Diameter Opposite Hand	<b>P</b> Pr. P. Lam. Pl. Plywd. Point Prefab. Prop. PSF PSI	Pair Plastic Laminate Plate Plywood Point Prefabricated Property Pounds per square foot Pounds per square inch
<b>R</b> Rad. Ref. Reinf. Req. R.A. Rev. R.O.W. R.D. Rm. R.O.	Radius Reference Reinforced Required Return Air Revision Right of Way Roof Drain Room Rough Opening	<b>S</b> Sched. Sect. Sht. Sht. Sim. S.C. Spec. Sq. SF St. Stl. Std. Stl. Stg. Strct. Susp. Sym.	Schedule Section Sheet Sheet Similar Solid Core Specification Square Square foot Stainless Steel Standard Steel Storage Structural Suspended Symmetrical
<b>T</b> Tel. T.V. T.&G. T.C. T.O.	Telephone Television Tongue and Groove Top of Curb (or Concrete) Top of	<b>U</b> U.N.O.	Unless Noted Otherwise
<b>V</b> Vert. V.C.T.	Vertical Vinyl Composition Tile	<b>W</b> W.C. Wt. W.F. Wdw. W/ W/O Wd. W.J.	Water Closet Weight Wide Flange Window With Without Wood Weakened Plane Joint
<b>Y</b> Yd.	Yard		

### General Notes

- These general notes pertain to work described on all contract documents.
- The contract documents consist of the owner-contractor agreement, the conditions of the 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.
- 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.
- 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.
- The Contractor shall carefully study and compare the contract documents and shall at once report to the Architect any error, inconsistency or omission he 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.
- 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.
- 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.
- All work shall be performed within strict conformance to the minimum standards of the current edition of the adopted building codes of the authority having jurisdiction and all applicable national, state, and local laws, regulations, and ordinances.
- The Contractor shall be responsible for the general safety during construction, and all work shall conform to pertinent safety regulations.
- The Contractor shall coordinate locations of any and all mechanical, telephone, electrical, lighting and plumbing including all piping, ductwork and conduit. Coordinate all required clearances for installation and maintenance of the above equipment.
- The Contractor shall supervise and direct the work, using his best skill and attention. He shall be solely responsible for all construction means, methods, techniques, sequences and procedures and for coordinating all portions of the work under the contract.
- The Contractor shall be responsible for the acts and omissions of his employees, subcontractors, and their agents and employees, and other persons performing any work under a contract with the Contractor.
- The Contractor shall pursue work in a continuous and diligent manner to ensure a timely completion of the project.
- The Contractor at all times shall keep the premises free from accumulation of waste materials or rubbish caused by his operations. At the completion of the work he shall remove all his waste materials and rubbish from and about the project as well as all his tools, construction equipment, machinery, and surplus materials.
- 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.
- Unless otherwise provided in the contract documents, the Contractor shall provide and pay for all labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for the proper execution and completion of the work.
- 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.
- 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 material are purchased, fabricated and/or installed.
- Where pre-manufactured or prefabricated items and/or materials are to be installed - the Contractor shall verify rough or finished dimensions in the field prior to purchase or fabrication.
- 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.
- 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.
- Contractor is requested to visit the site as part of the pre-bid site visit to compare the drawings and specifications with any work in place, and inform himself of all conditions, including the work, if any, being performed. Failure to visit the site will in no way relieve the Contractor from necessity of furnishing any materials or performing any work in accordance with the drawings and specifications that may be required to complete the work without additional cost to the owner.
- Existing conditions including material sizes, configurations, and locations as shown on the drawings may not be an exact illustration of existing as-built conditions. The Contractor shall include in his bid the cost of furnishing, installing, modifying, existing and/or new materials (minor in nature) required for a complete and professional installation that may be required by minor variations between existing conditions as shown, and actual as-built conditions.

### Project Team

**Owner:**  
City of Sparks  
P.O. Box 657  
Sparks, Nevada 89432  
(775) 353-1528  
Contact: Brian Cason, S.E., P.E.  
bcason@cityofsparks.us

**Architect:**  
H+K Architects  
5485 Reno Corporate Drive, Suite 100  
Reno, Nevada 89511  
(775) 332-6640  
Contact: Phil O'Keefe A.I.A.  
phil@hkarchitects.com

**Mechanical Engineer:**  
Ainsworth Associates Mechanical Engineers  
1420 Holcomb Ave., Suite 201  
Reno, Nevada 89502  
(775) 329-9200  
Contact: Cruz Karver, P.E.  
ckarver@aa-me.com

**Electrical Engineer:**  
PK Electrical, Inc.  
681 Sierra Rose Drive, Suite B  
Reno, Nevada 89511  
(775) 826-9010  
Contact: Matthew Stuart  
mstuart@pk-electrical.com

### Sheet Index

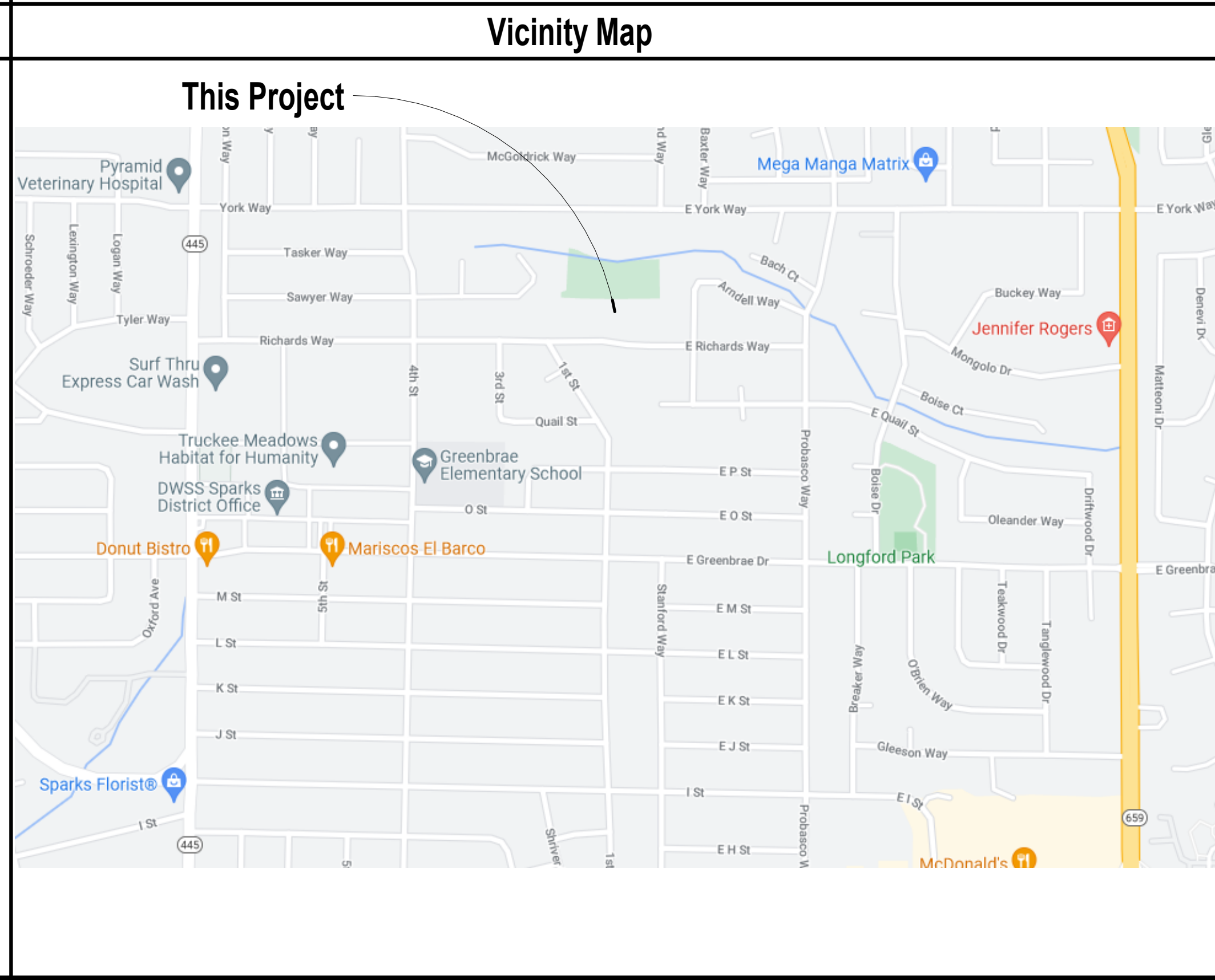
G100	Title Sheet
General	
G101	Project Data
G301	Accessibility Diagrams, Details and Wall Types
Architectural	
A100	Demolition Plan, Renovation Plan, Demo RCP and Reflected Ceiling Plan
A801	Room Finish Schedule, Door Schedule and Interior Elevations
Mechanical/Plumbing	
MP001	Mechanical/Plumbing Legend, Schedules, Notes
MP100	Mechanical/Plumbing Demolition Plan & Renovation Plan
MP801	Mechanical/Plumbing Details
Electrical	
E001	Electrical Legend and Drawing Schedule
E002	Electrical Specifications
E003	Schedules and Calculations
E101	Electrical Demolition Plan
E201	New Electrical Plans

### Design Criteria

Applicable Codes:  
 Building Code: 2018 International Building Codes (IBC)  
 Mechanical Code: 2018 Uniform Mechanical Code (UMC)  
 Plumbing Code: 2018 Uniform Plumbing Code (UPC)  
 Electrical Code: 2017 National Electrical Code (NEC)  
 Fire Code: 2018 International Fire Code, Vol. 1 (IFC)  
 Accessibility Codes: 2010 Americans with Disabilities Act, Accessibility Guidelines  
 2017 ICC/ANSI 117.1  
 Energy Code: 2018 International Energy Conservation Code

### Symbols

	Drawing Number		Typical Indicator
	Sheet Number		Building Section
	North Arrow		Wall Section
	Elevation		Detail
	Door Number		Detail Section
	Window Type		Spot Elevation
	Grid Line		Elevation
	Room Name		
	Wall Type Symbol		



### 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
Bathubs/Showers	N/A	N/A	N/A	N/A
Drinking Fountain	--	2	2	--
Service Sink	--	1	1	--

\* Based on 2018 U.P.C.  
 \*\* Includes existing fixtures outside of project area of work

Occupancy Group: Group A-3  
 Number of Stories: 1 Story  
 Allowable Area (2018 I.B.C. Table 503): 9,500 S.F.  
 Actual Building Area: 10,895 G.S.F.  
 Building constructed in circa 1964 prior to current I.B.C. Allowable Area / Sprinkler Requirements.

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Date: 10-31-2022

Revision:

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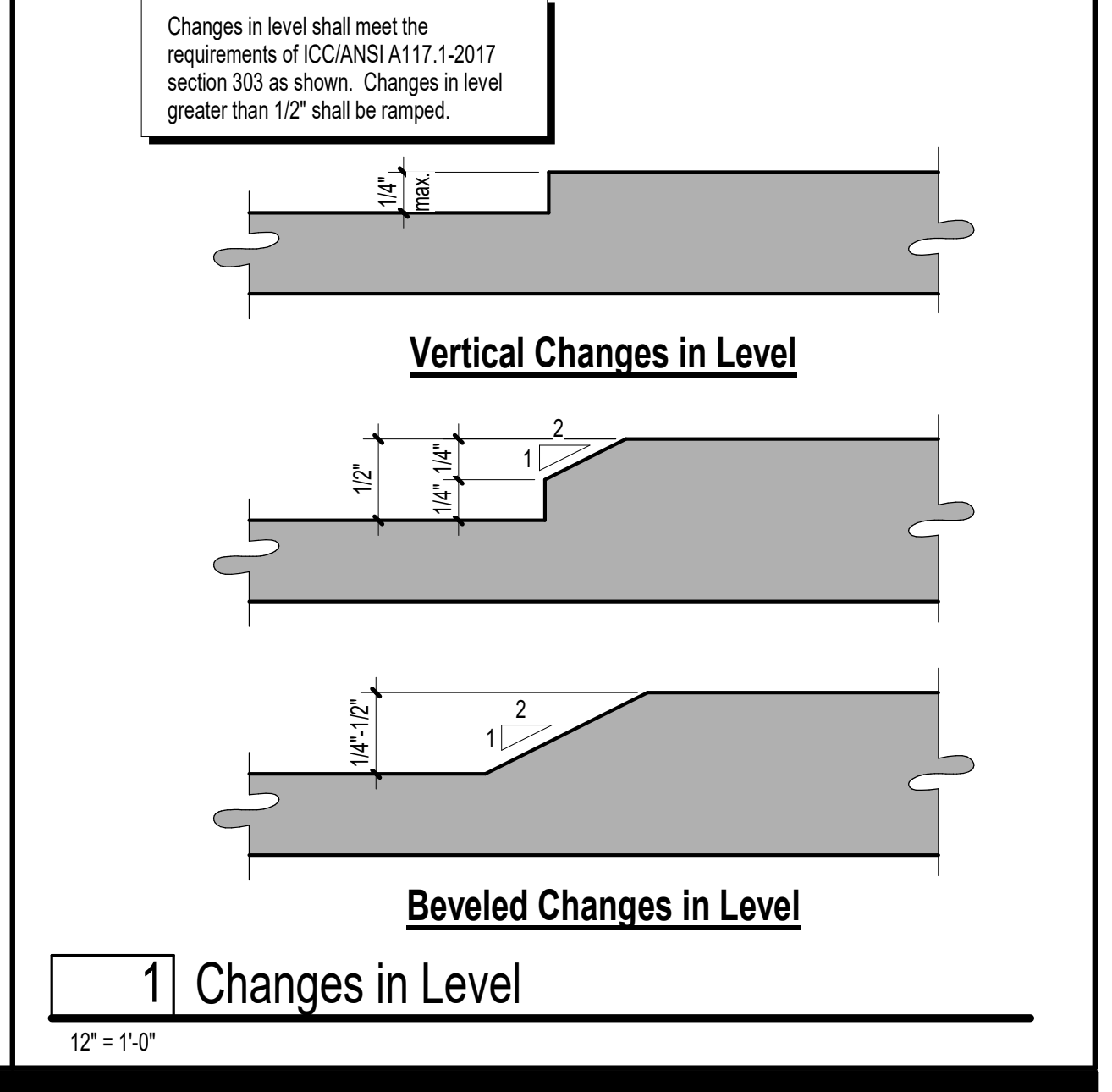
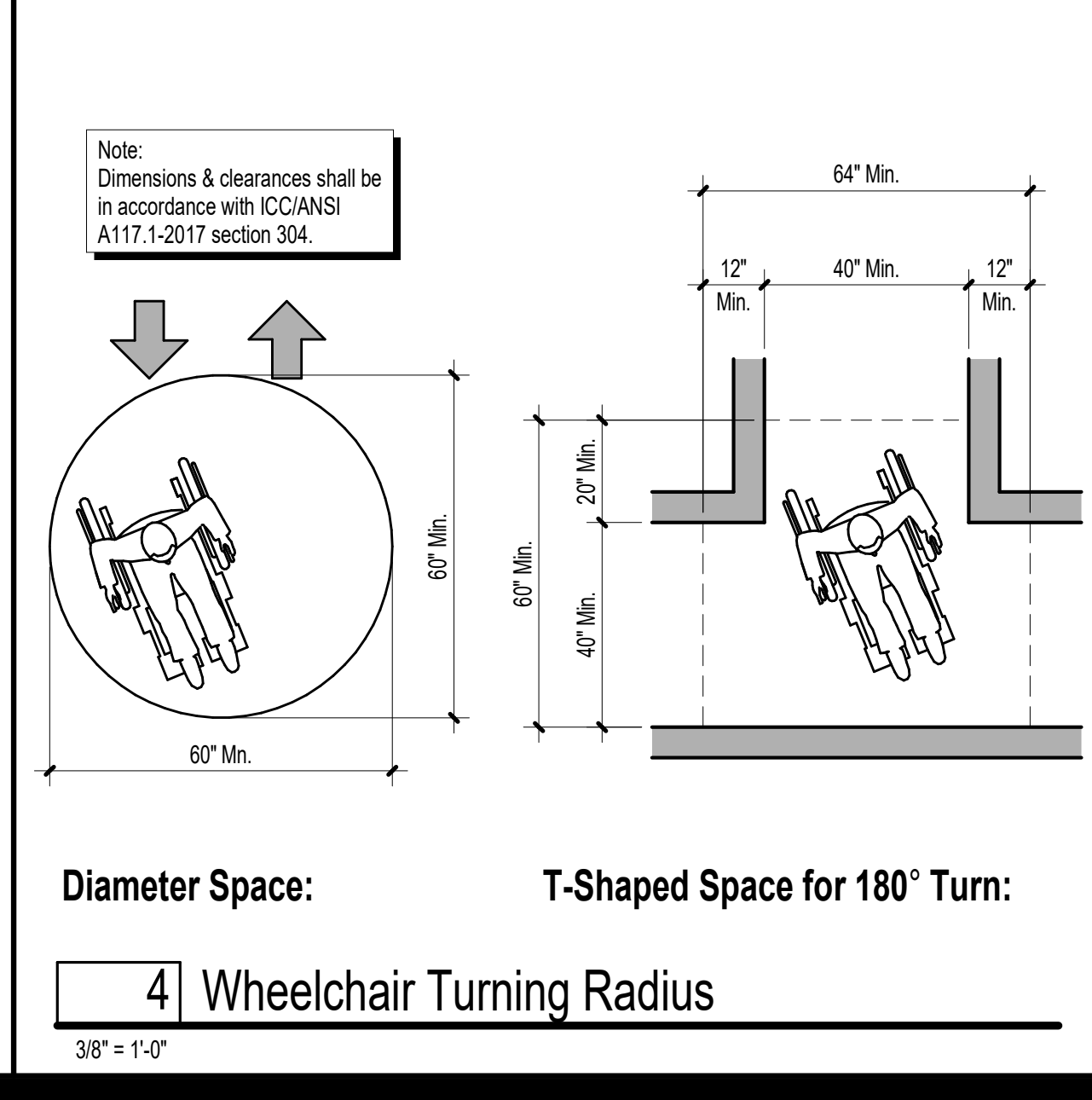
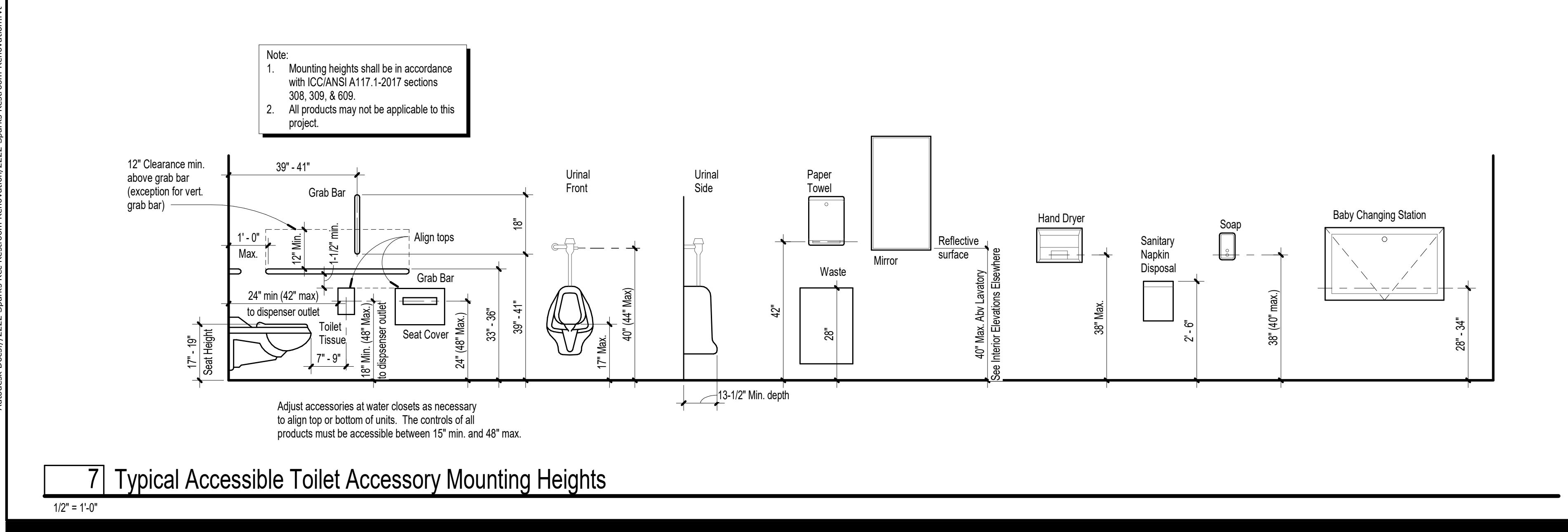
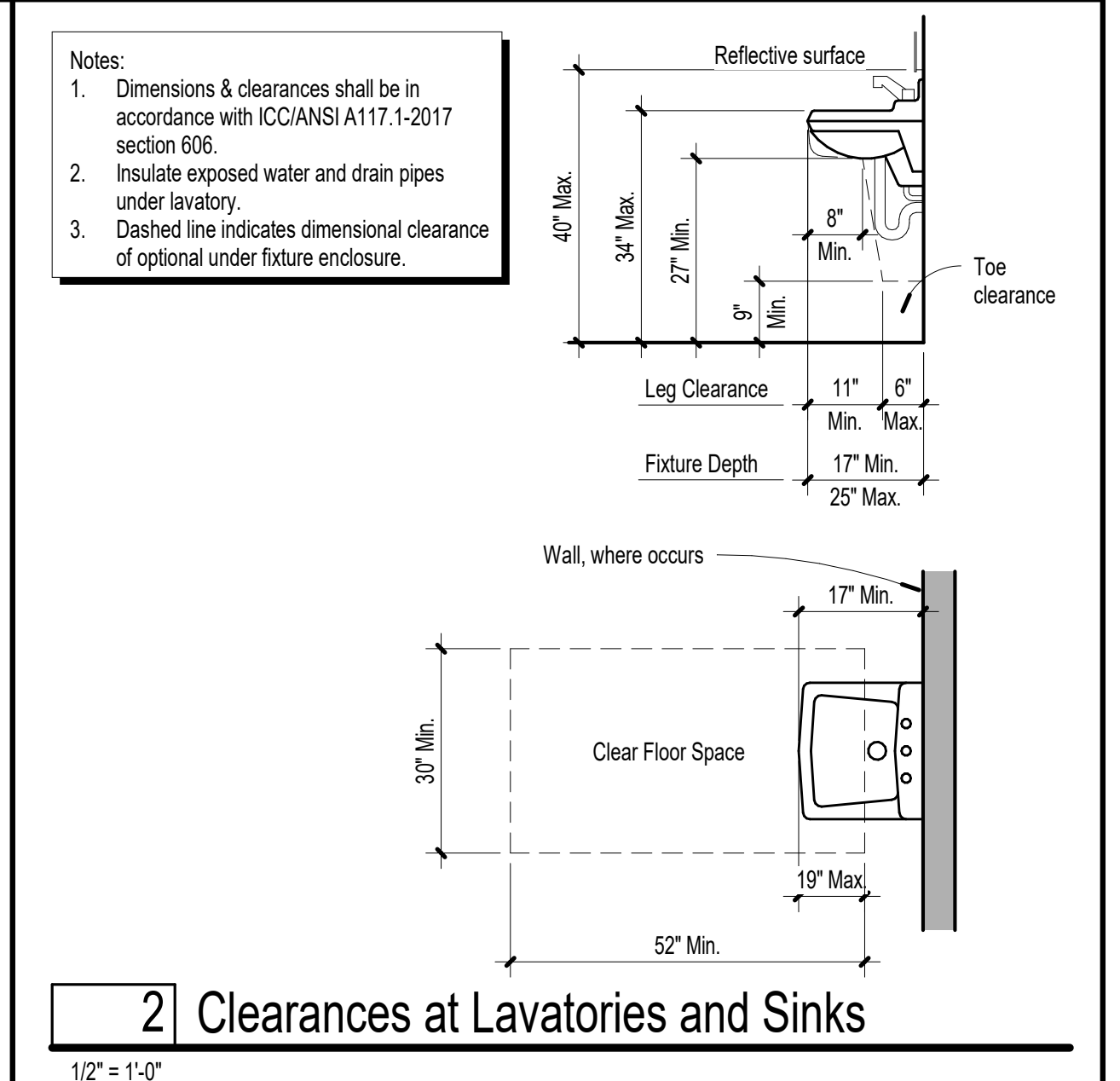
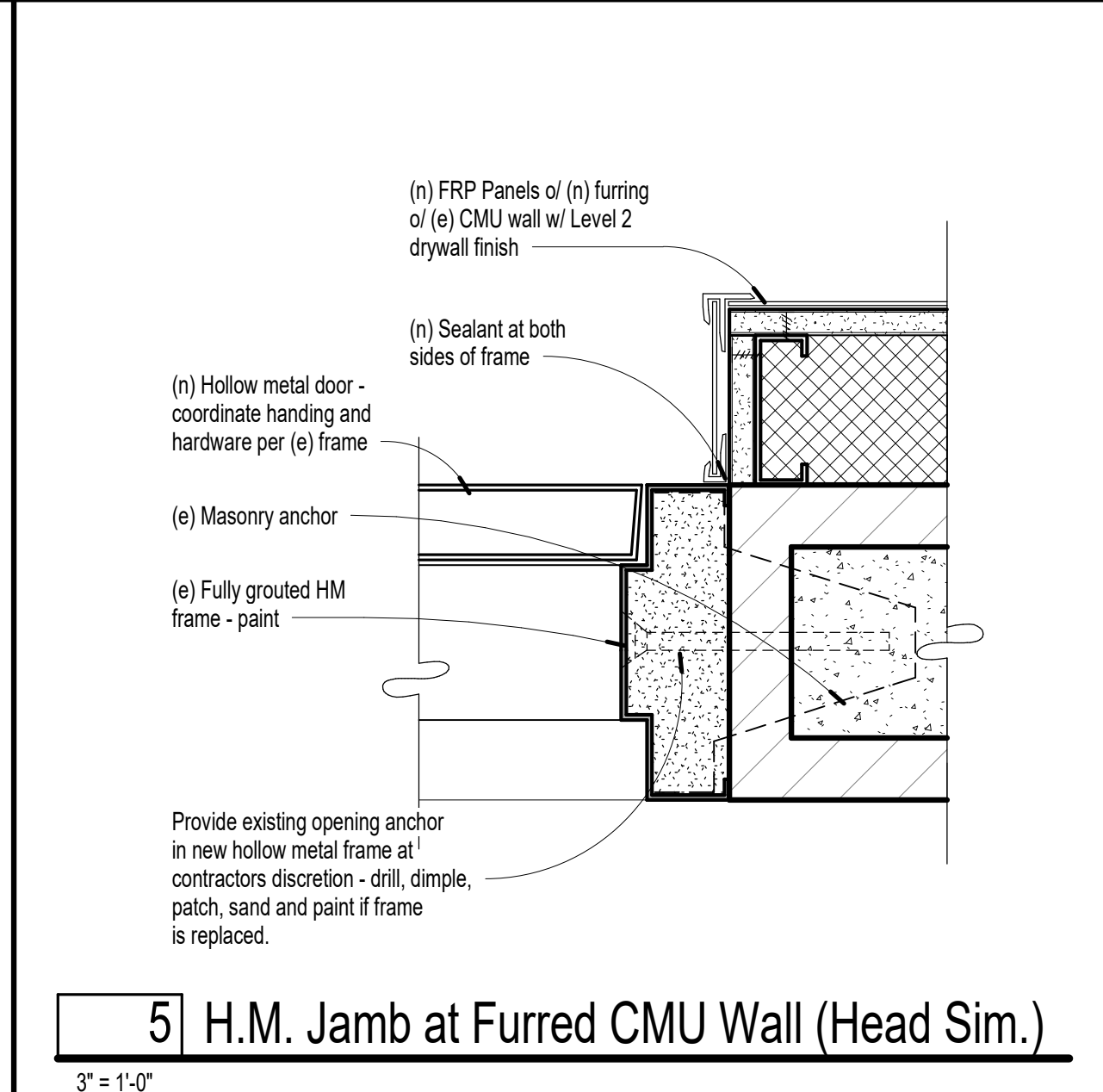
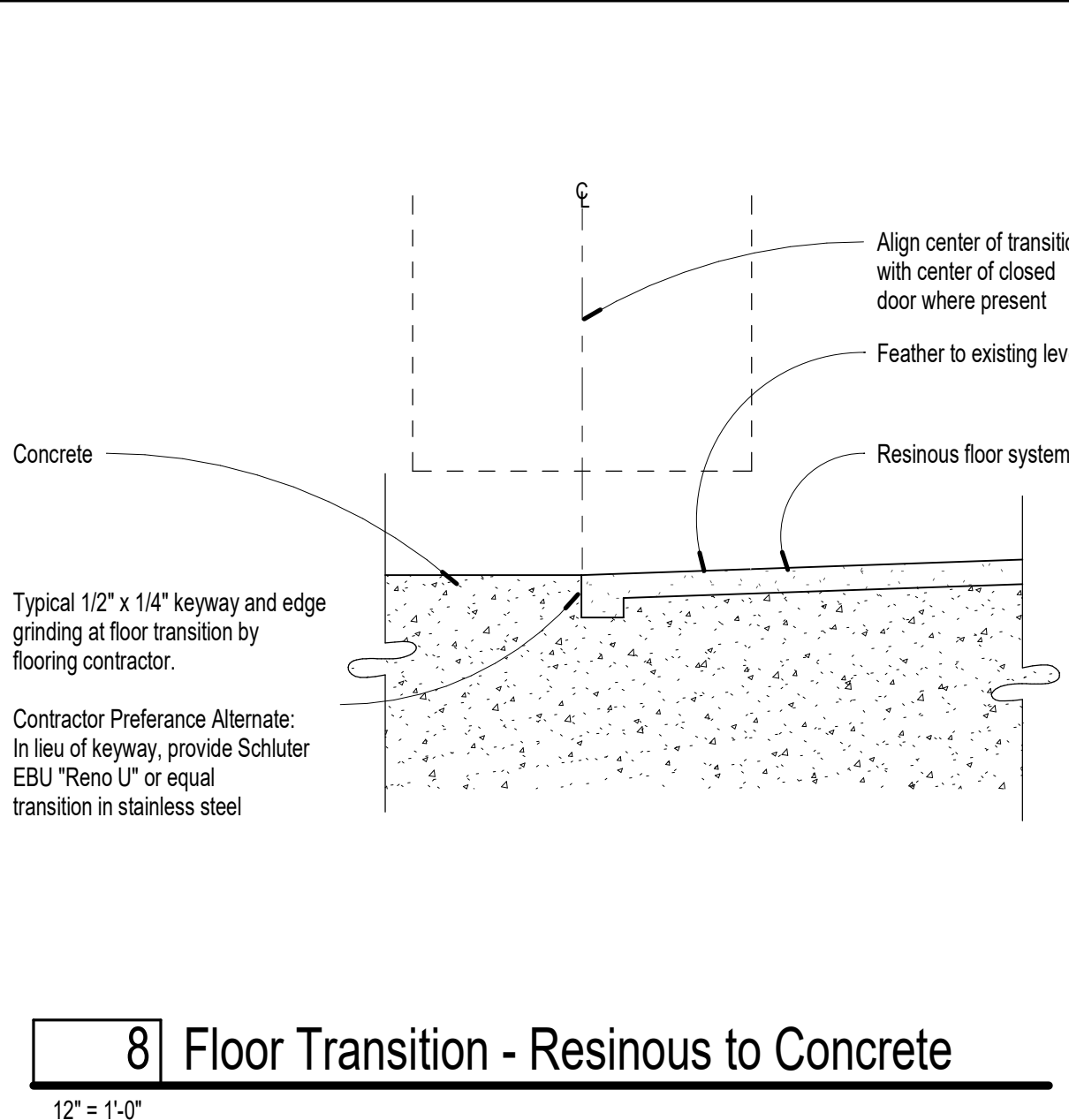
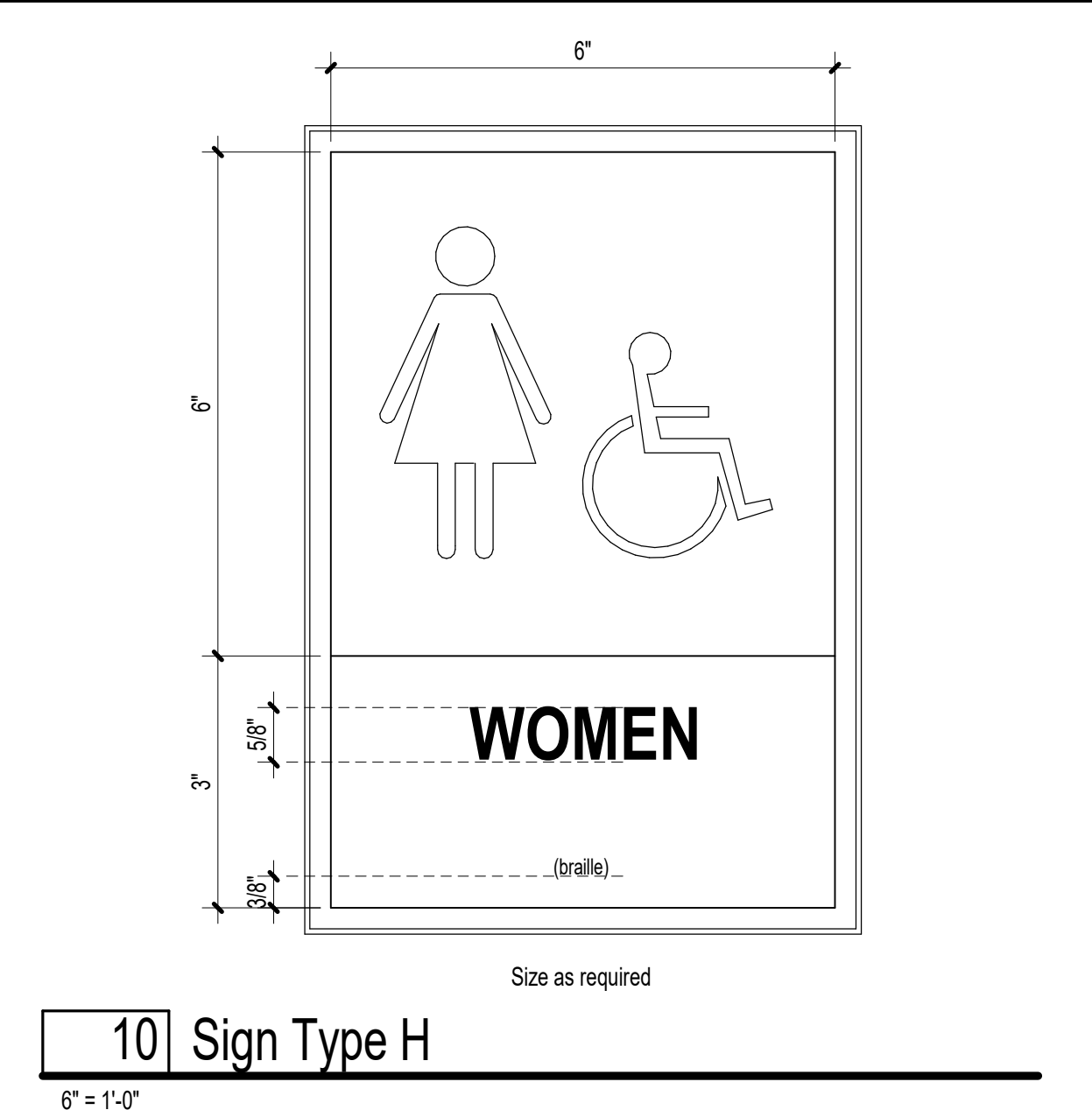
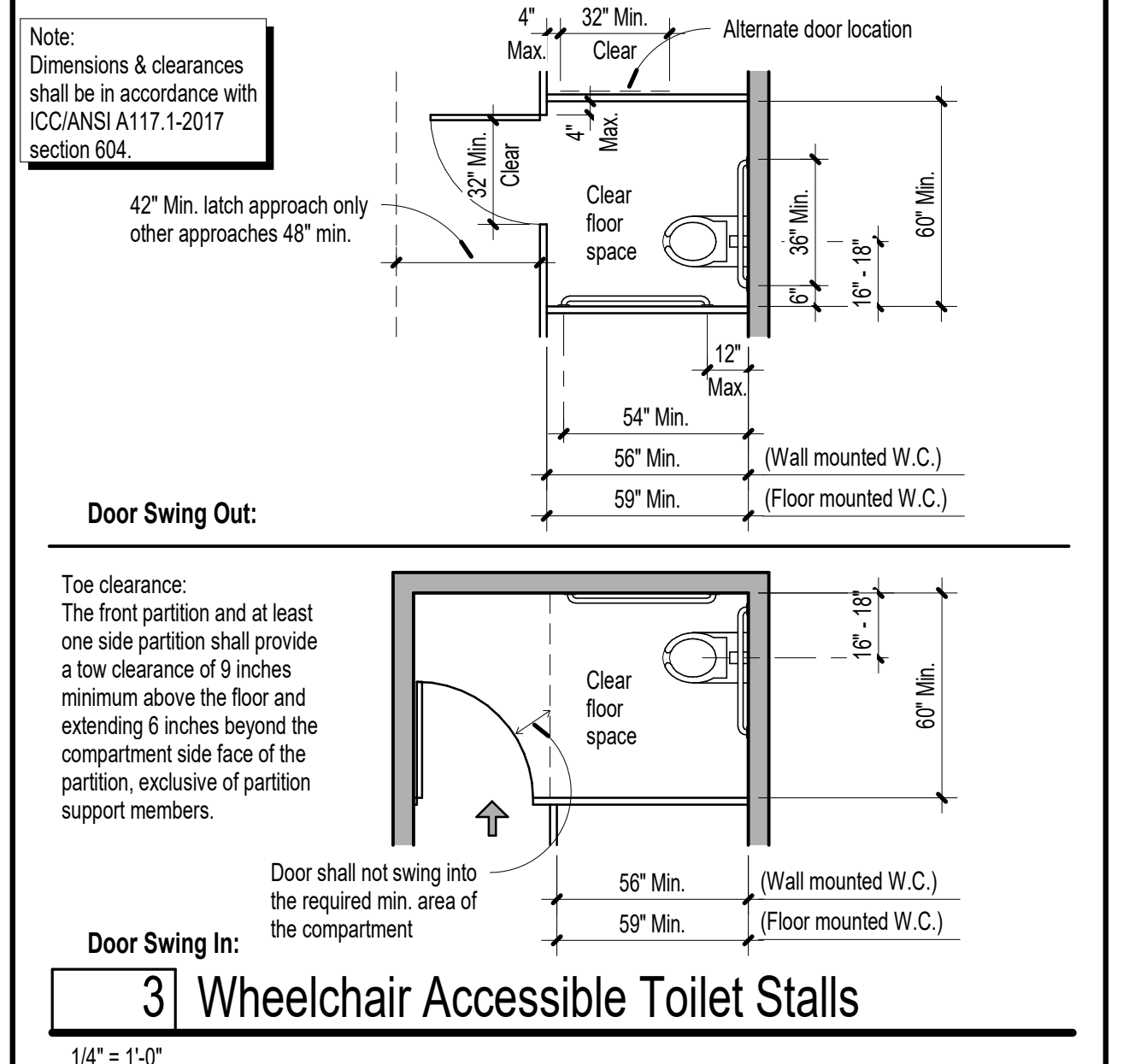
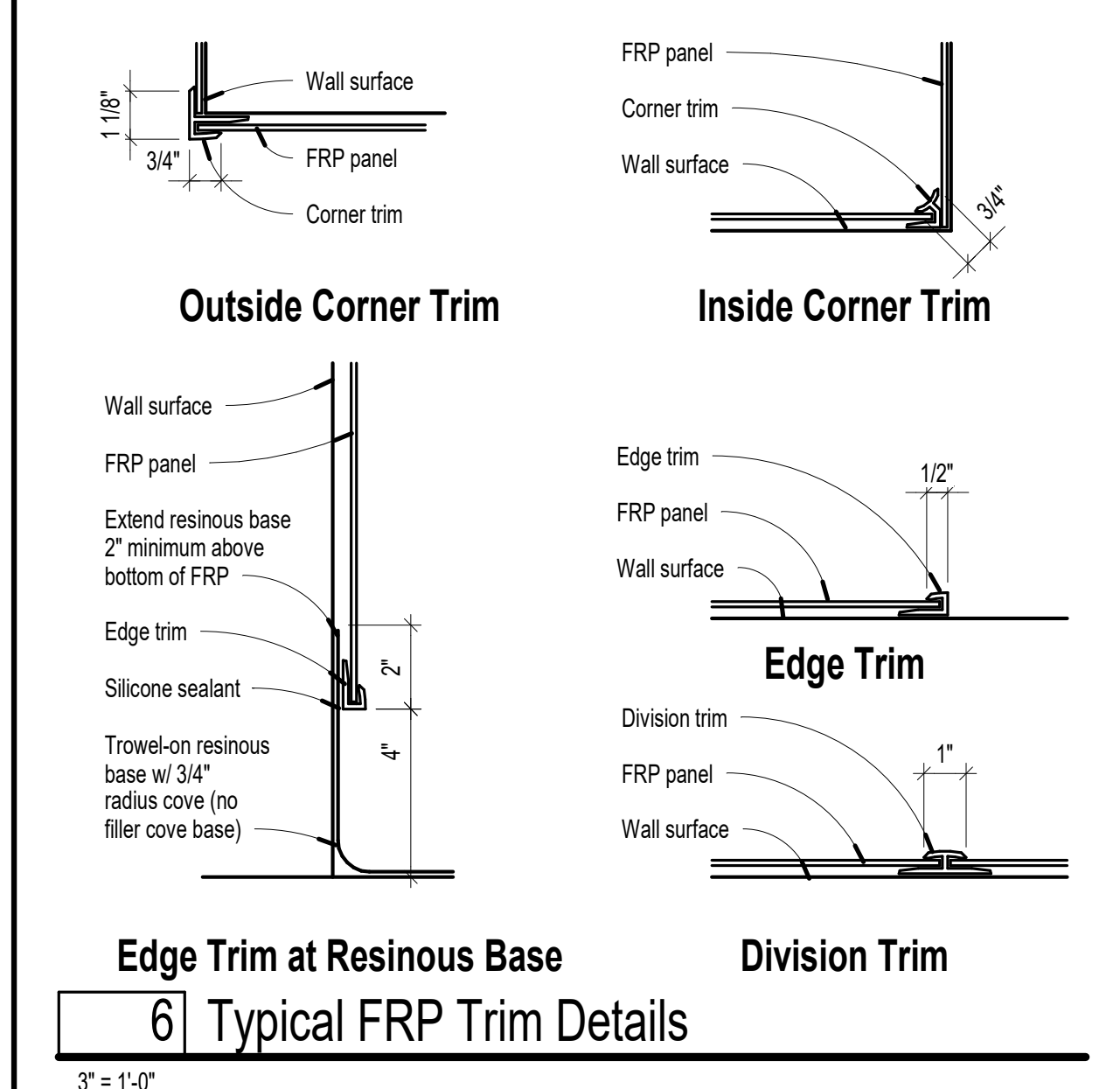
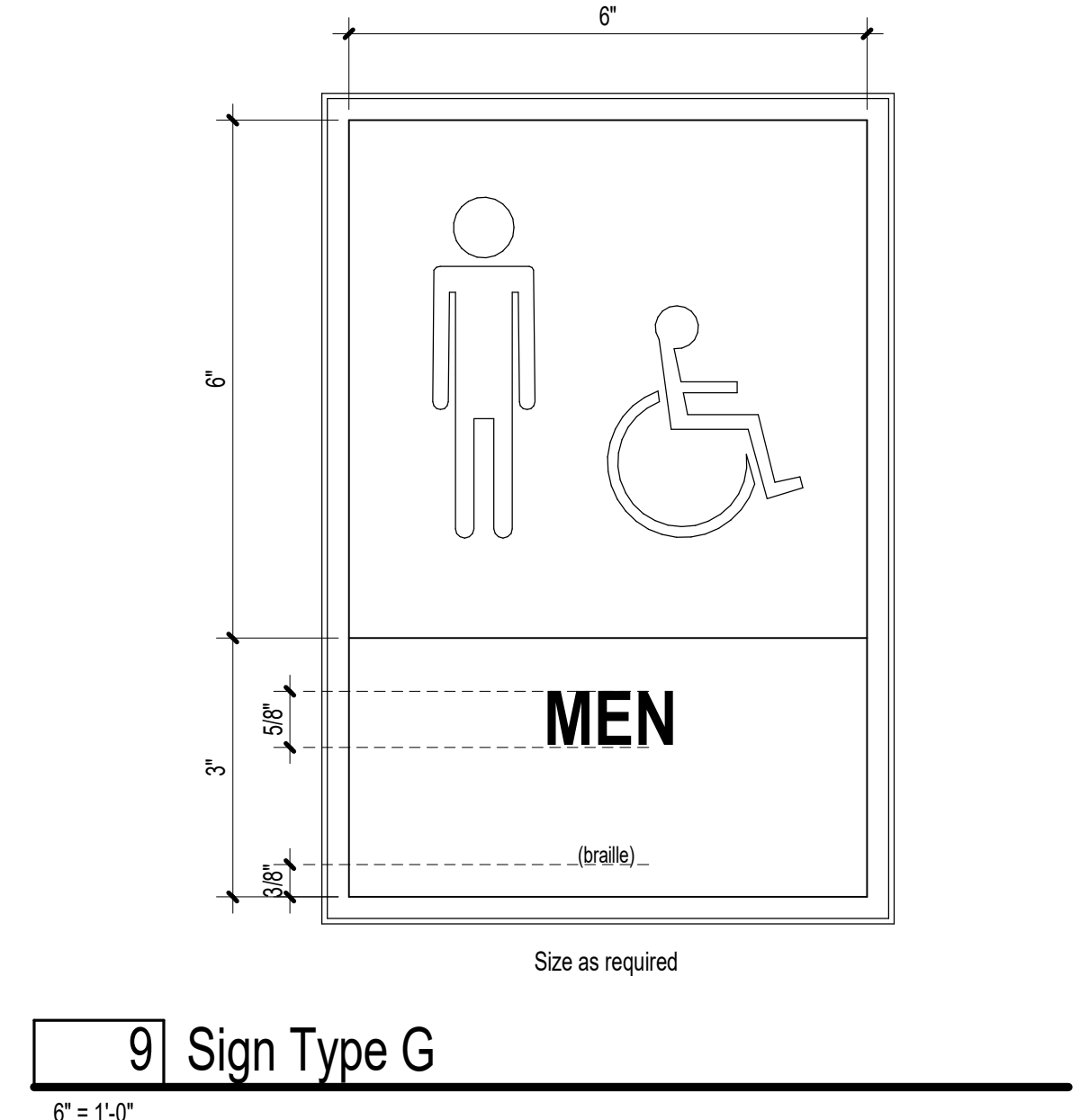
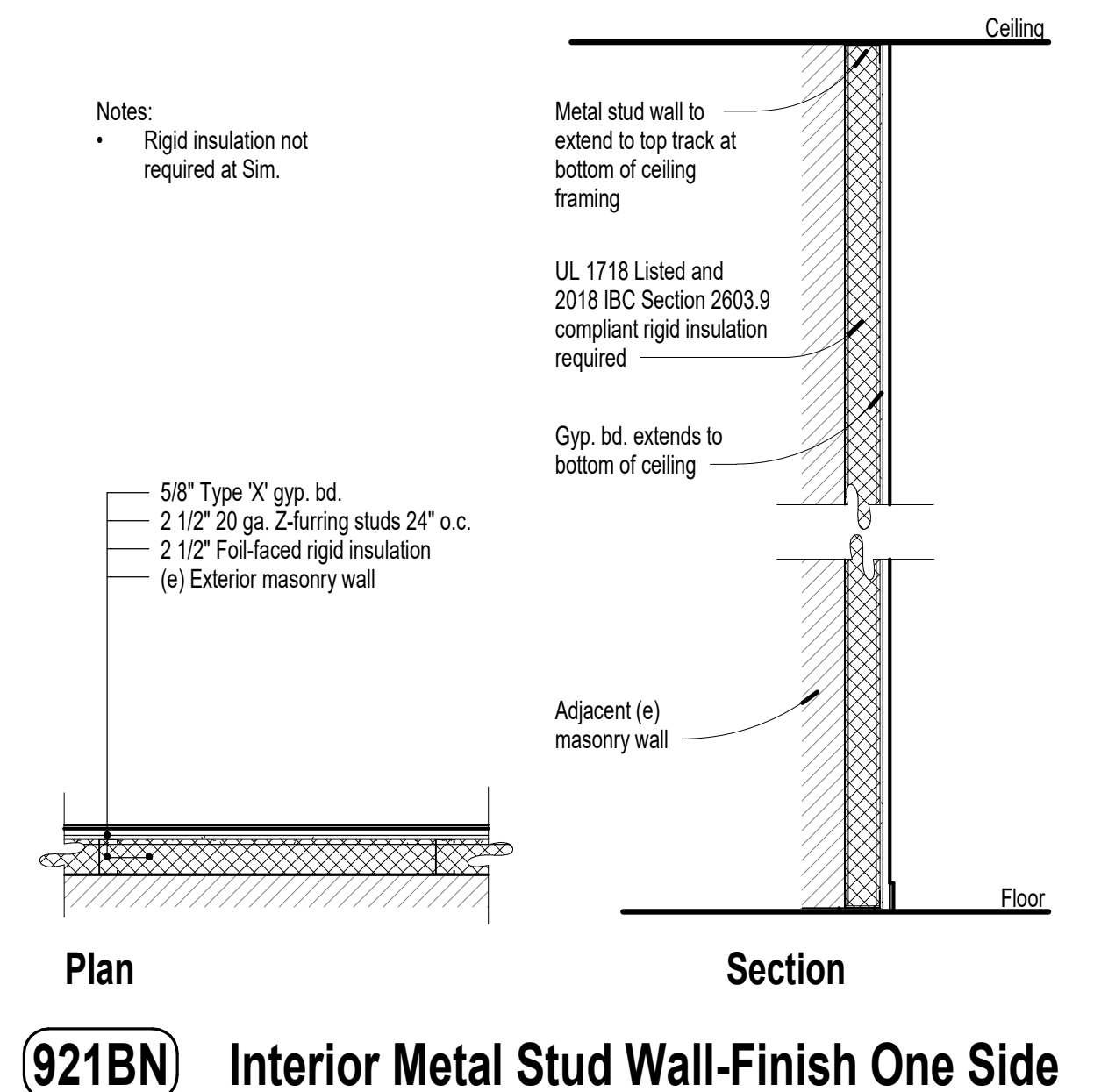
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 98 Richards Way  
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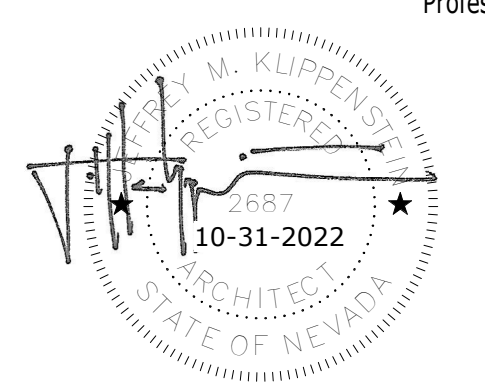
Project Data

October 31, 2022  
 H+K Project No: 2222

# G101



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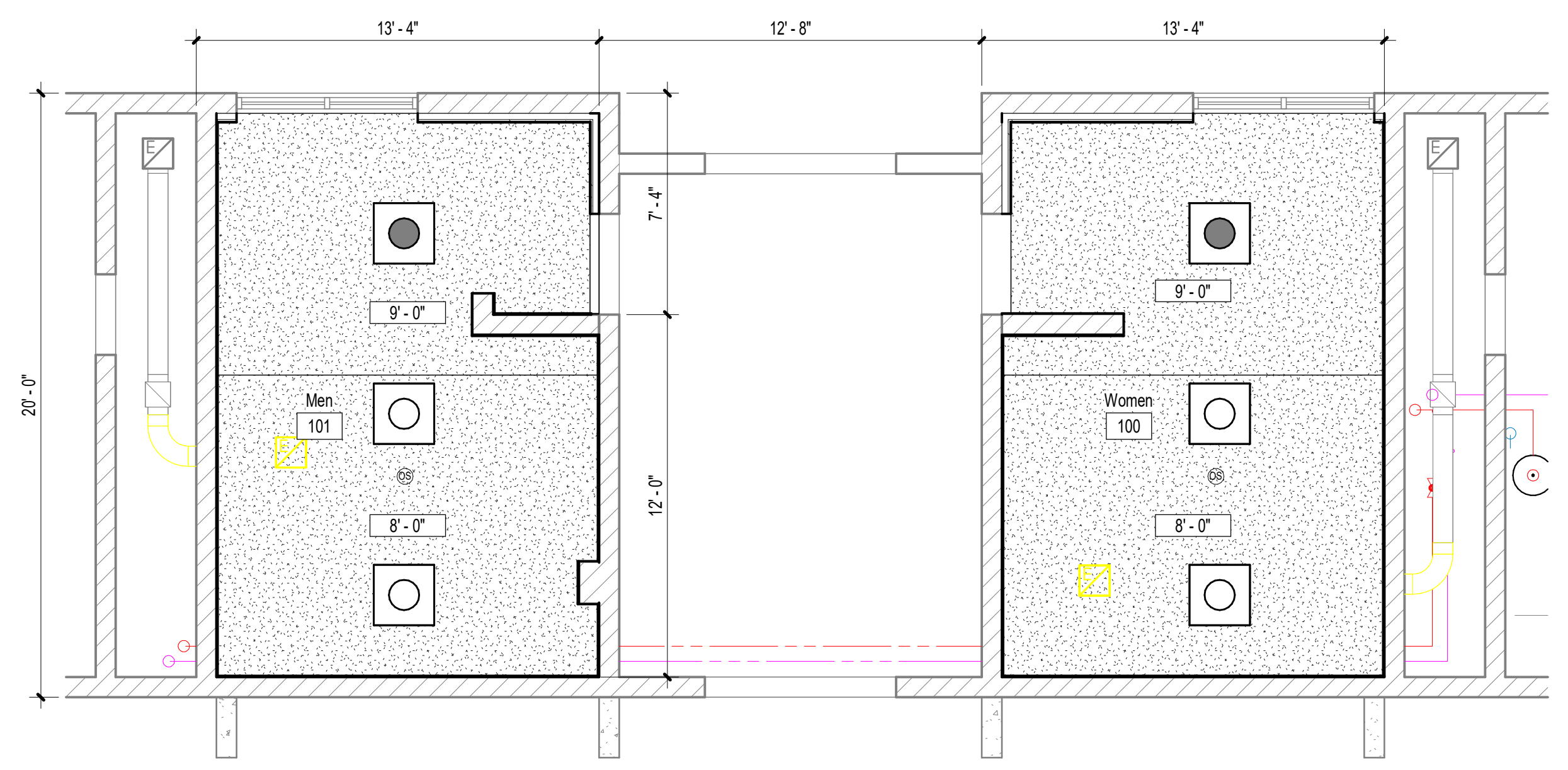
**Sparks Recreation Center Restroom Renovation**  
 APN: 028-330-57  
 98 Richards Way  
 Sparks, NV 89431

Accessibility Diagrams, Details and Wall Types  
 October 31, 2022  
 H+K Project No: 2222  
**G301**

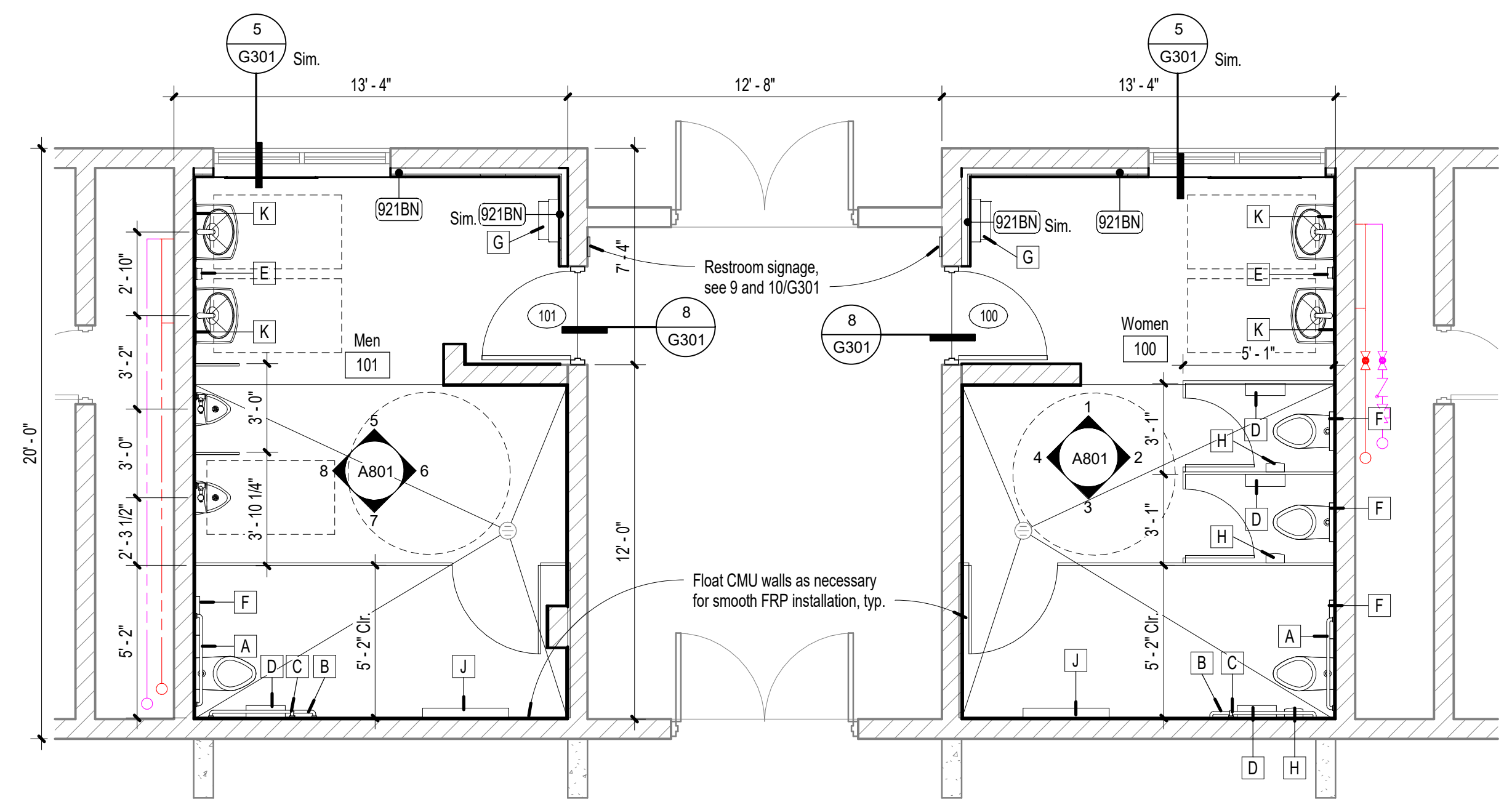
Toilet Accessories Schedule				
Mark	Description	Model	Manufacturer	Comments
A	Rear Horizontal Grab Bar	B-5806.99 x 36	Bobrick	Or equal.
B	Side Horizontal Grab Bar	B-5806.99 x 42	Bobrick	Or equal.
C	Side Vertical Grab Bar	B-5806.99 x 18	Bobrick	Or equal.
D	Toilet Tissue Dispenser	B-4288	Bobrick	Or equal.
E	Soap Dispenser	Owner Supplied	Owner Supplied	
F	Toilet Seat Cover Dispenser	B-4221	Bobrick	Or equal.
G	Semi-Recessed Convertible Combination Towel and Waste Unit	B-3942	Bobrick	Or equal.
H	Surface-Mounted Sanitary Napkin Disposal	B-270	Bobrick	Or equal.
J	Surface Mounted Baby Changing Station	KB200-1	Bobrick	Or equal.
K	Mirror	B-290-2444	Bobrick	Or equal.

### Demolition Notes

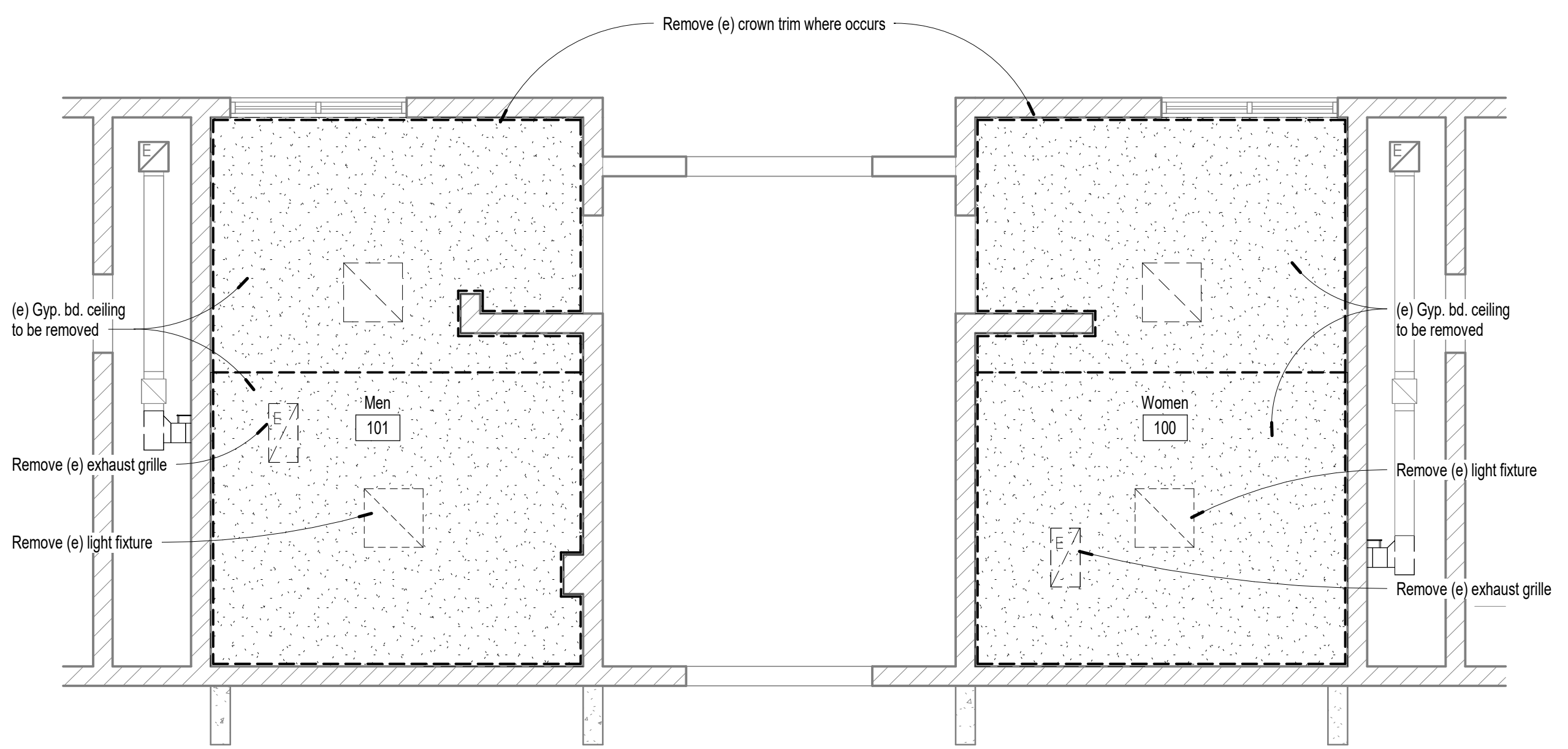
- For the purpose of Architectural work, all items not shown to be removed or altered on this sheet shall remain in their existing condition. This pertains to all equipment and other consultant's work. See other disciplines for additional demolition and alterations to utilities. Notify the Architect of any components which vary from those shown on the drawings.
- In the event that demolition work creates a condition where existing spaces are open to the weather, the Contractor shall protect the building from the effects of exposure from exterior conditions. These conditions shall be weather-tight at the conclusion of his work each night. At the conclusion of his work in that area the Contractor is to replace all removed components to a weather-tight condition to match adjacent finishes.
- There will be selective demolition for Electrical and Mechanical components. This demolition is to facilitate the replacement and/or new installation of Electrical and Mechanical components. Although this demolition may not appear specifically on this sheet, the Contractor shall include in his bid all demolition work for the removal of required building materials necessary for the installation of these components.
- Protect adjacent surfaces to remain from damage. Contractor is to repair or replace all finishes that are damaged or removed due to the installation or removal of any materials, fixtures, accessories or construction noted on these drawings. Repaired or replaced finishes shall match adjacent existing surfaces.
- The Contractor shall remove (e) wall finishes as required. The location of this demolition is shown on the Demolition Plan. The Contractor shall be responsible for setting the exact limits of demolition required in order to perform his work. All finishes removed shall be patched, repaired, or replaced to match adjacent finishes.
- Trade, product or manufacturer's names or catalog numbers, and indications or product types, such as 'glass fiber insulation', shown on the drawings for existing products are believed to be accurate. If they are discovered to be inaccurate, notify Architect immediately and do not proceed without instructions.
- All dimensions must be field verified prior to the start of work.
- Hazardous Material: Refer to specifications for additional information. It is not expected that hazardous materials will be encountered in the work.
- Definitions:  
Remove: Detach items from existing construction and legally dispose of them off-site, unless indicated to be removed and salvaged or removed and reinstalled.  
Remove and salvage: Carefully detach from existing construction, in a manner to prevent damage and deliver to Owner for reuse.  
Remove and reinstall: Detach items from existing construction, prepare for reuse, and reinstall them where indicated. Existing to remain: Existing items of construction that are not to be permanently removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled.
- Full Owner occupancy will exist during entire construction. Contractor to coordinate fully with Owner to minimize conflicts and facilitate Owner usage.
- Contractor to limit use of premises to the work indicated, so as to allow Owner occupancy and public use.
- All construction phases to be coordinated with Owner. Contractor to provide at least 7 days advance notice of any service interruption.



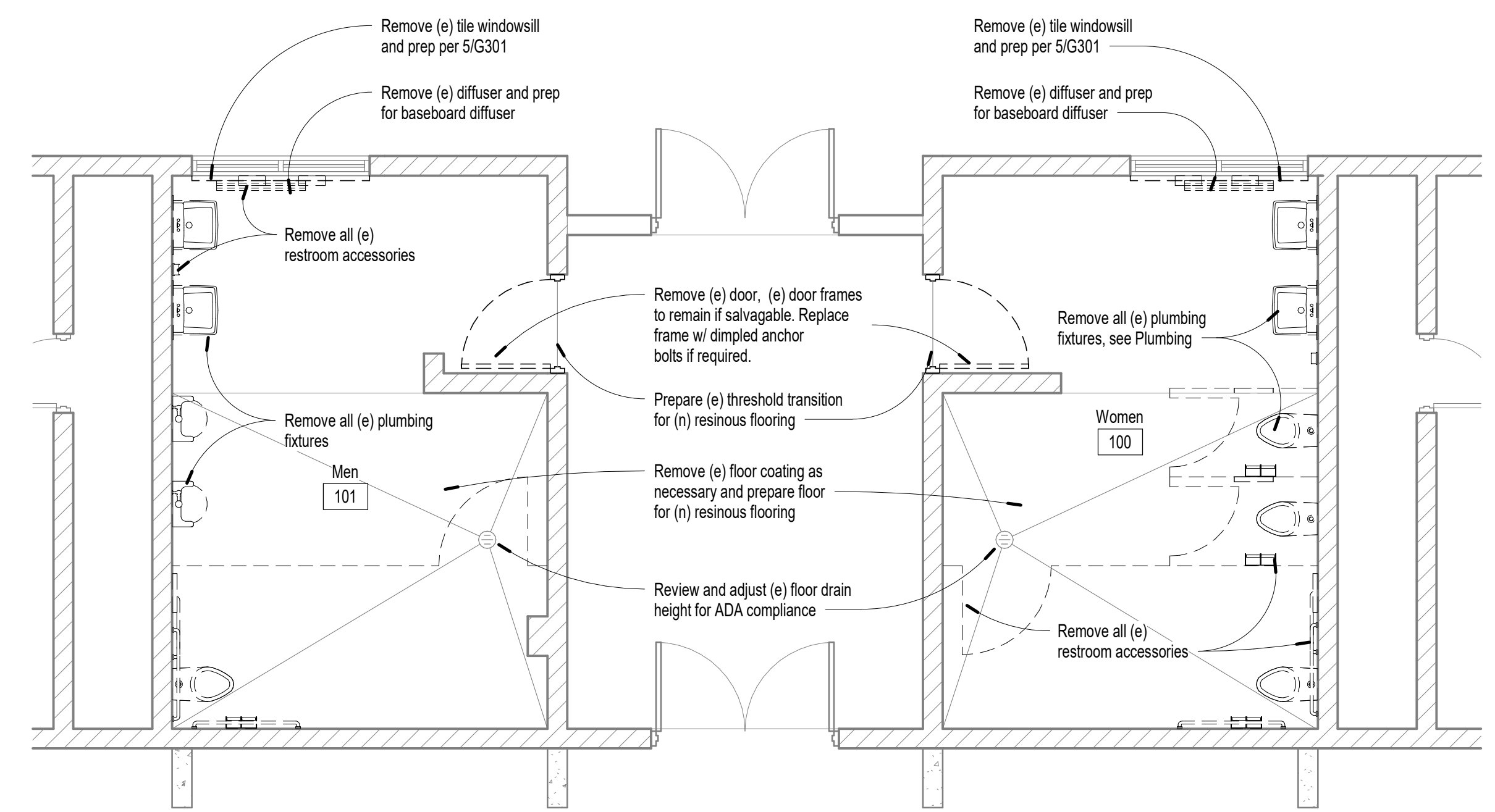
**4 Reflected Ceiling Improvement Plan**  
1/4" = 1'-0" North



**2 Improvement Floor Plan**  
1/4" = 1'-0" North



**3 Reflected Ceiling Demolition Plan**  
1/4" = 1'-0" North

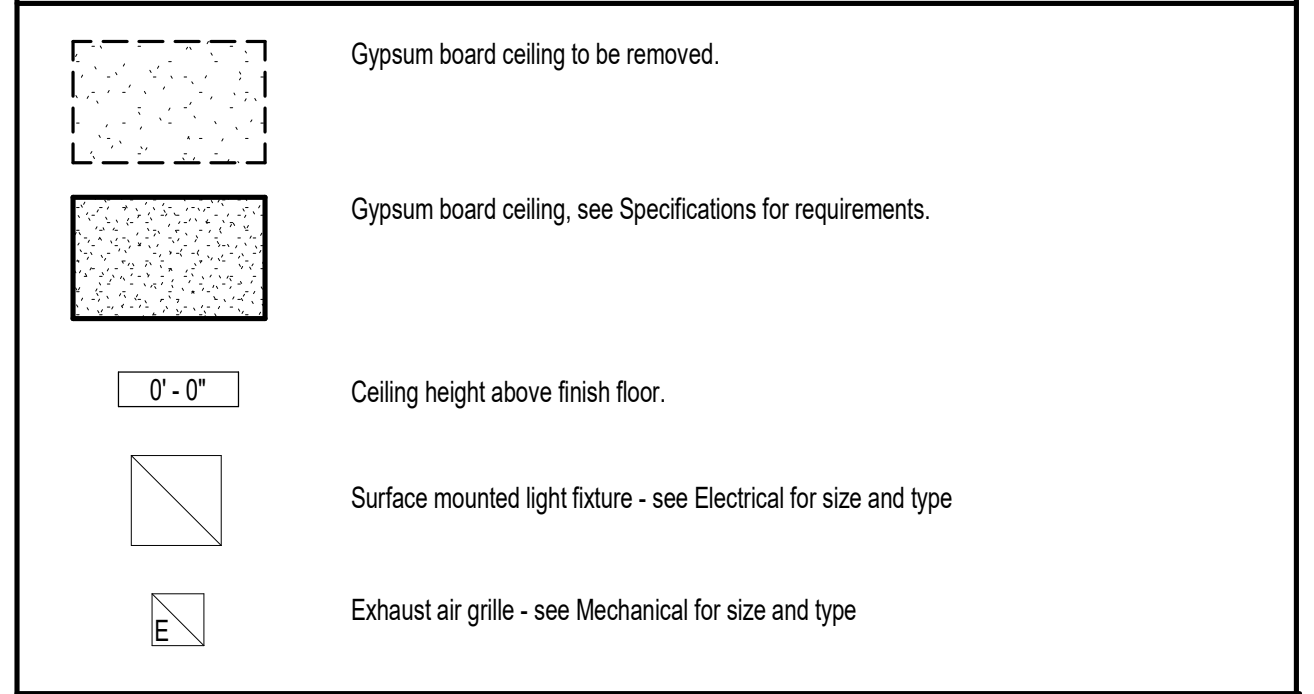


**1 Demolition Floor Plan**  
1/4" = 1'-0" North

### Sheet Notes

- Refer to Mechanical and Electrical plans for equipment related to those disciplines. All required equipment not necessarily noted on this sheet.
- Openings, pockets, etc. shall not be placed in slabs, beams, columns, walls, etc., unless specifically detailed on the drawings.
- Sand, grind, or patch (e) concrete restroom floor as required to accommodate new construction. Install leveling compound as required. Verify all floor areas have < 2% max. slope in all directions. Float resinous flooring and raise floor drains as needed to provide required slope.
- Repair and repaint the entire surface where alteration work is performed, U.N.O. Paint color to match (e) walls and areas adjacent.
- All touch up painting of existing surfaces will be as follows:  
Bottom coat: Latex primer  
Intermediate coat and top coat: Acrylic Latex Enamel
- Sheen shall match existing adjacent surfaces. Contractor to coordinate paint manufacturer with Owner to match (e) maintenance paint stock.

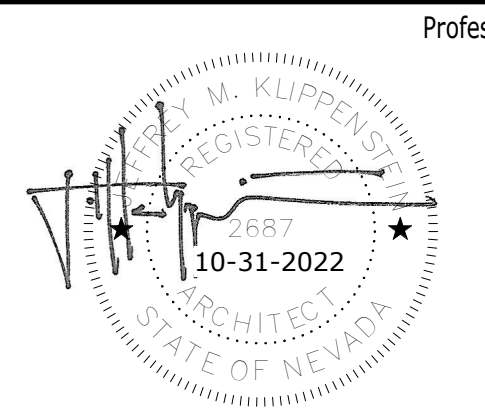
### Ceiling Plan Legend



Note: Any required hazardous material abatement by Owner. Contact Owner/Architect should any lead and/or asbestos containing materials be encountered or suspected.

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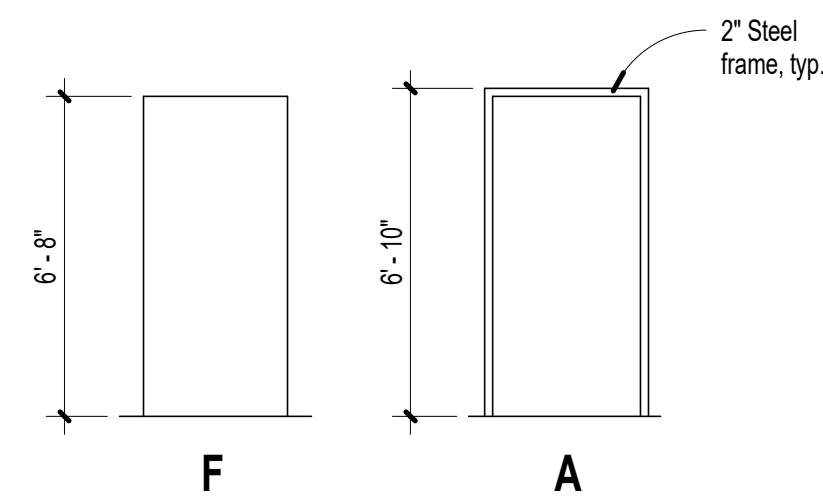
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Demolition Plan,  
Renovation Plan, Demo  
RCP and Reflected  
Ceiling Plan  
October 31, 2022  
H+K Project No: 2222



**A100**

**Door and Frame Types**



**Material Legend**

- Floor:  
F1 Resinous Flooring
- Base:  
B1 Coved Resinous Base
- Walls:  
W1 FRP Panel - Running Bond Brick Pattern
- Ceiling:  
C1 Gypsum Board - Painted

**Door Hardware Group**

Door Hardware Group H1

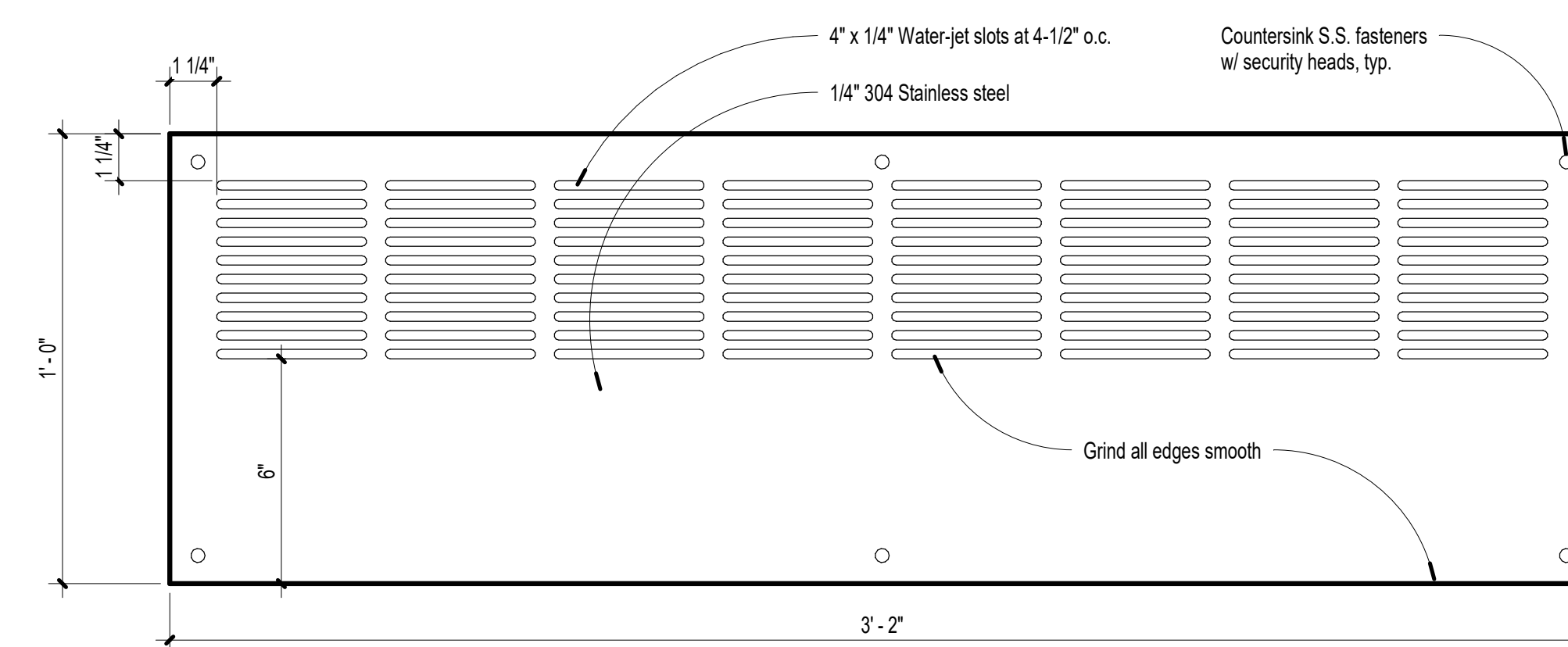
Qty	Item	Description	Finish	Manufacturer
3	Hinges	BB1168 4.5 x 4.5	652	Hager
1	Classroom Deadbolt	B663P	626	Schlage
1	Cylinder	Keymark	626	Medeco
2	Door Pulls	8103-2 x Type J/N	626	Ives
1	Closer	4040XP	689	LCN
1	Wall Stop	1270WVCP	619	Trimco
1	Perimeter Gasket	S88	GR	Pemko
2	Kickplate	J101 12 x 34	62	Don-jo

**Door Schedule**

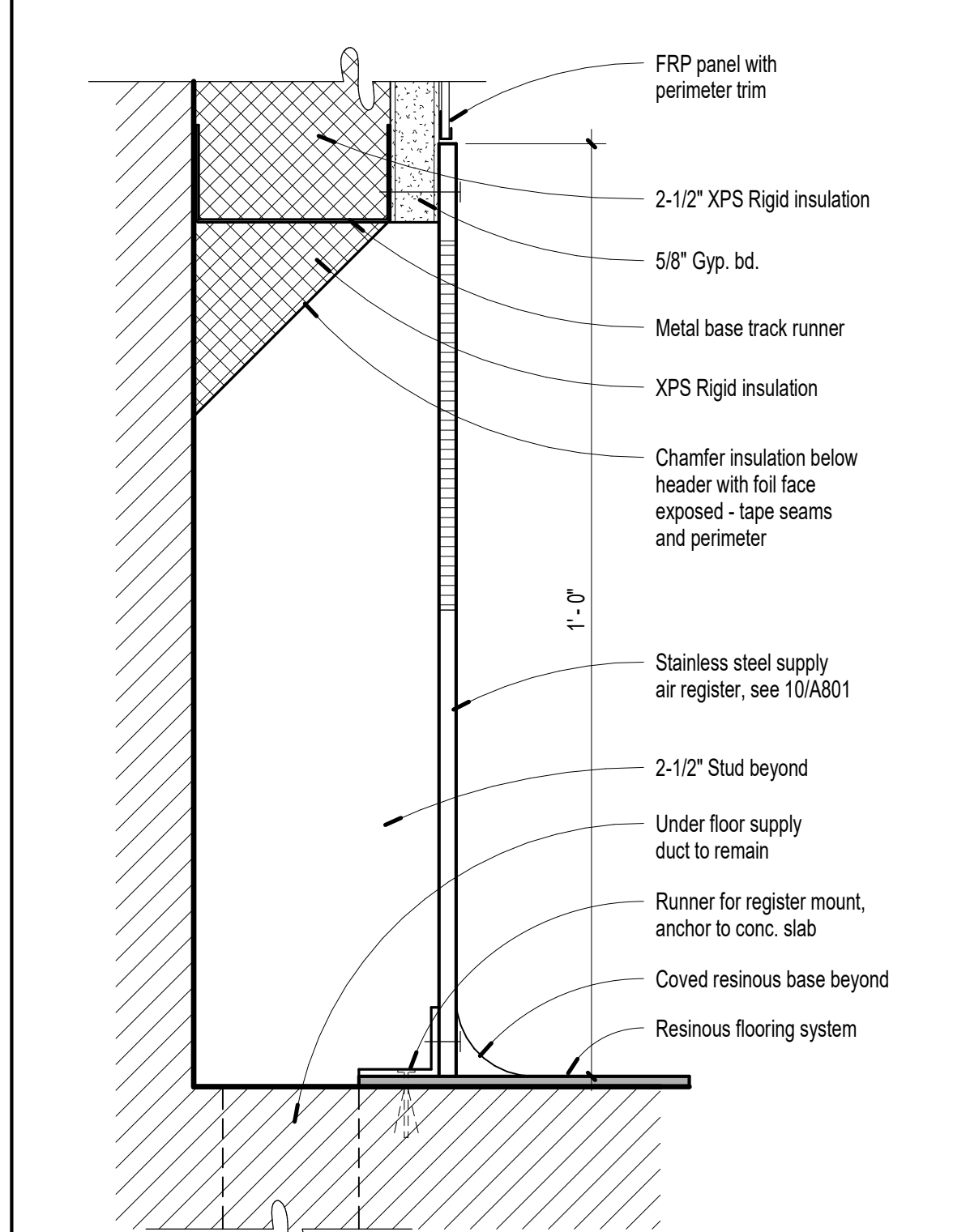
Door Number	DOORS							FRAME				DETAILS				Hardware Group	Comments
	Width	Height	Pair	Material	Type	Glass	Door Rating	Material	Frame Rating	Elev.	Glass	Head	Strike	Hinge	Sill		
100	3'-0"	6'-8"	--	HM	F	--	--	HM (e)	--	A	--	5/G301 Sim.	5/G301	5/G301	8/G301	H1	Coordinate hardware with (e) frame.
101	3'-0"	6'-8"	--	HM	F	--	--	HM (e)	--	A	--	5/G301 Sim.	5/G301	5/G301	8/G301	H1	Coordinate hardware with (e) frame.

**Room Finish Schedule**

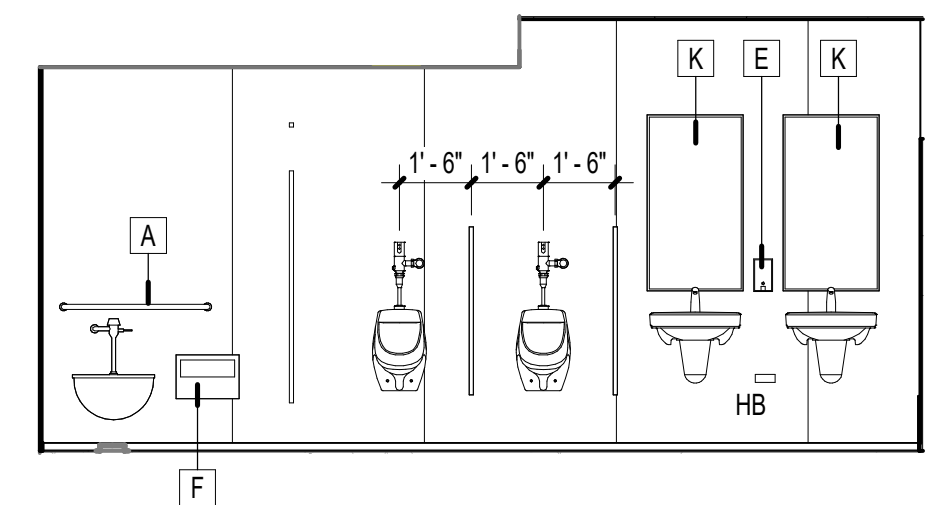
Number	Room Name	Floor Finish	Base Finish	Walls				Ceiling Finish	Remarks
				North	East	South	West		
100	Women	F1	B1	W1	W1	W1	W1	C1	
101	Men	F1	B1	W1	W1	W1	W1	C1	



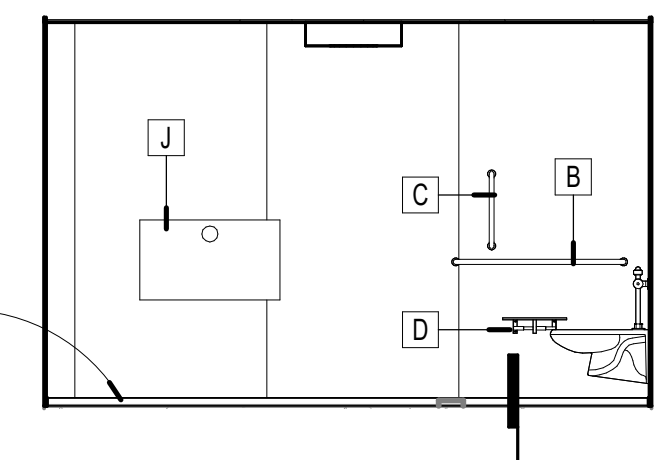
**10 Baseboard Air Supply Register**  
3" = 1'-0"



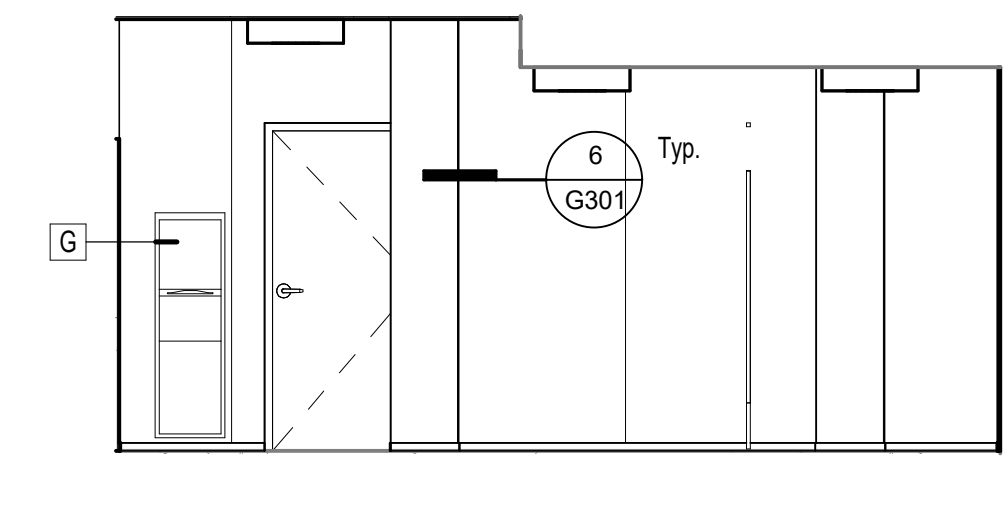
**9 Air Supply Register**  
6" = 1'-0"



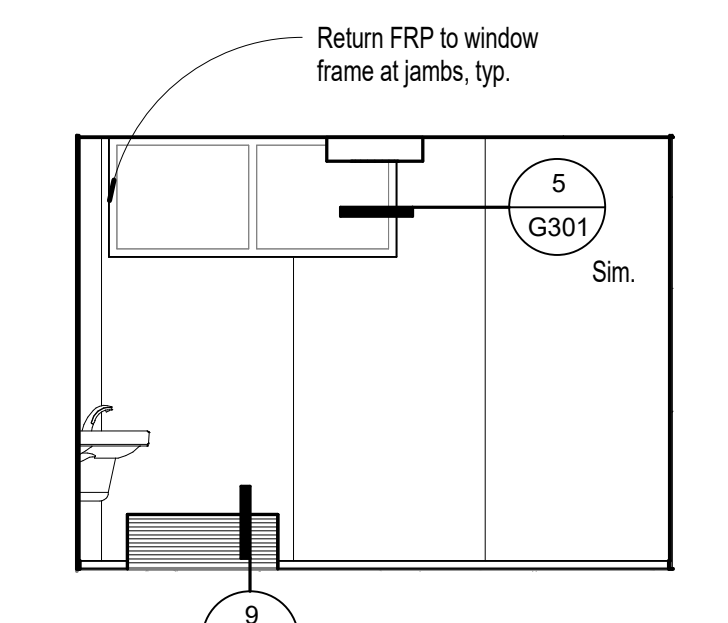
**8 Men West**  
1/4" = 1'-0"



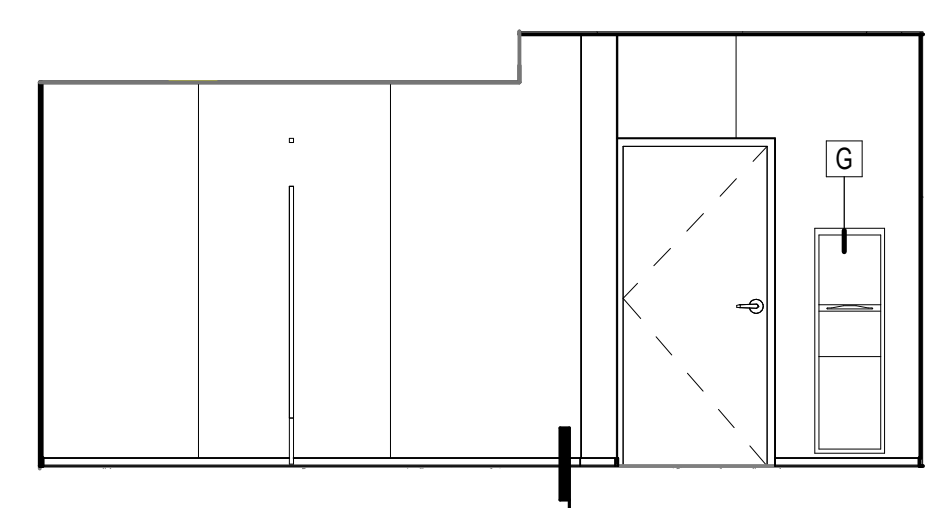
**7 Men South**  
1/4" = 1'-0"



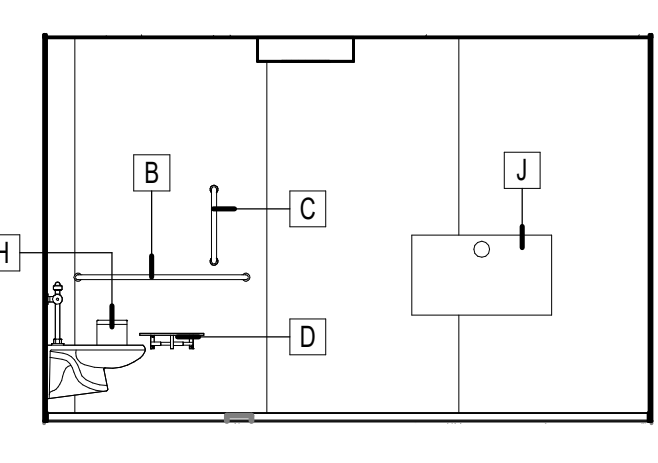
**6 Men East**  
1/4" = 1'-0"



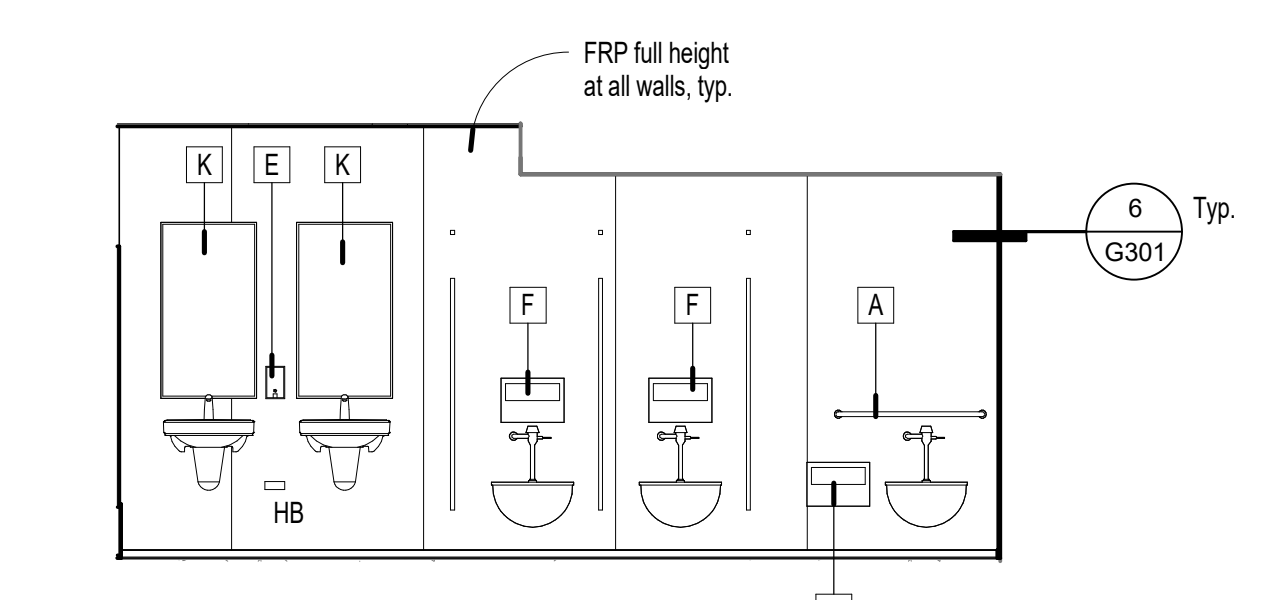
**5 Men North**  
1/4" = 1'-0"



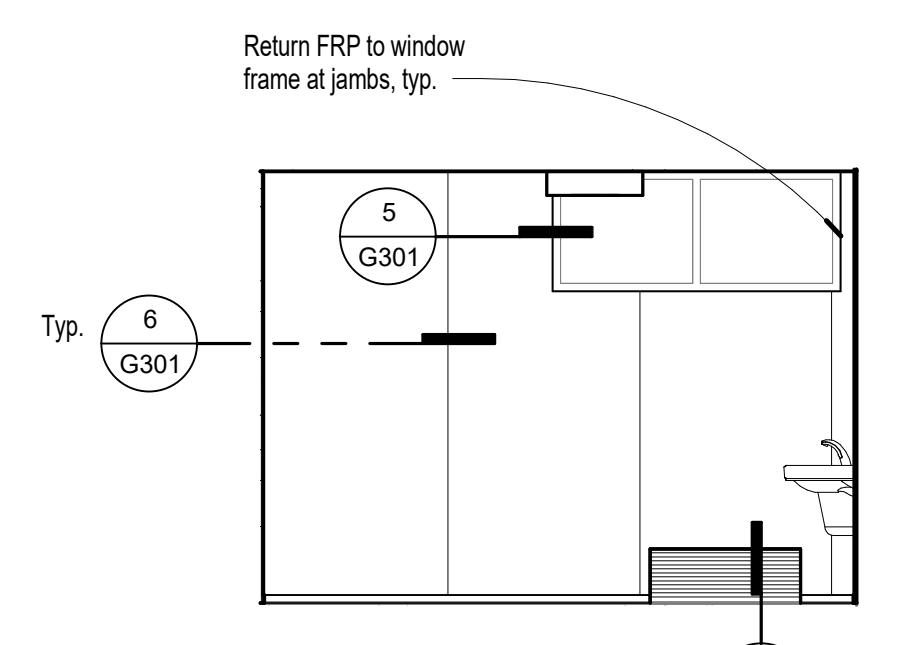
**4 Women West**  
1/4" = 1'-0"



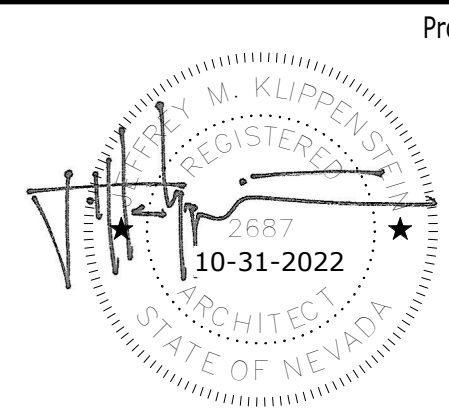
**3 Women South**  
1/4" = 1'-0"



**2 Women East**  
1/4" = 1'-0"



**1 Women North**  
1/4" = 1'-0"



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Consultant

**H+K ARCHITECTS**  
5485 Reno Corporate Drive, Suite 100  
Reno, Nevada 89511-2262  
P 775-332-6640  
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hkarchitects.com

**Sparks Recreation Center Restroom Renovation**


APN: 028-330-57  
98 Richards Way  
Sparks, NV 89431

Room Finish Schedule, Door Schedule and Interior Elevations

October 31, 2022  
H+K Project No: 2222

**A801**



AIR DISTRIBUTION SCHEDULE							
SYMBOL	SERVICE	BORDER	CFM RANGE	NECK SIZE	DESCRIPTION	BASIS OF DESIGN	NOTES
A	RETURN EXHAUST TRANSFER	LAY-IN GYPBOARD	0-125	8x8	SQUARE EGGRATE GRILLE WITH WHITE FINISH.	PRICE MODEL #80, BORDER TYPE TB FOR T-BAR, BORDER TYPE F FOR SURFACE MOUNT	1,2,3
			130-180	10x10			
			185-270	12x12			
			275-375	14x14			
			380-480	16x16			
			485-700	18x18			
			705-1100	20x20			
ALL T-BAR LOCATIONS			22x22				
<b>NOTES:</b> <ol style="list-style-type: none"> <li>PROVIDE INLET AND OUTLET SIZES ABOVE UNLESS SIZES ARE SPECIFICALLY NOTED ON PLANS.</li> <li>ALL AIR DISTRIBUTION SHALL BE FACTORY WHITE FINISH, UNLESS NOTED OTHERWISE.</li> <li>INLETS NOTED WITH AN "E" ARE ON THE EXHAUST SYSTEM.</li> </ol>							
 EXHAUST							

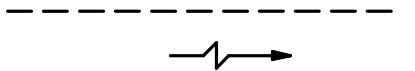
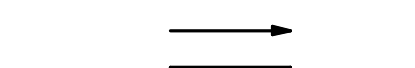
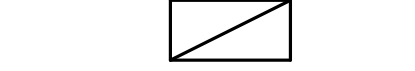


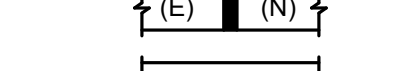
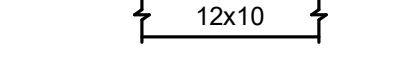




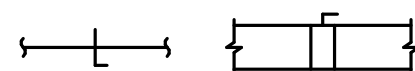
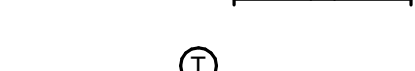

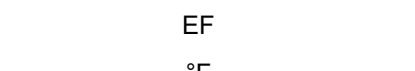
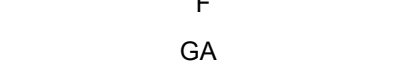

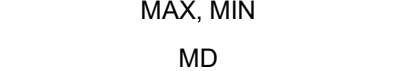


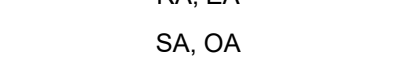


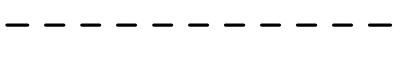
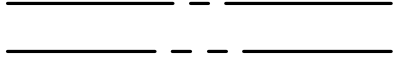
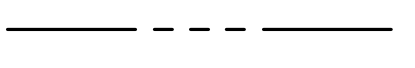
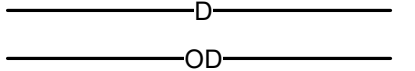
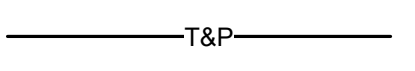


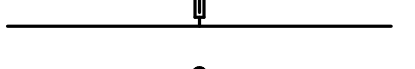
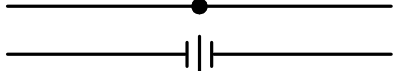
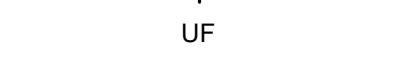

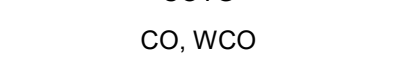
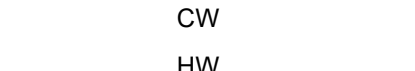
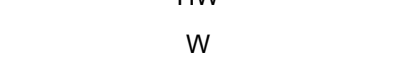
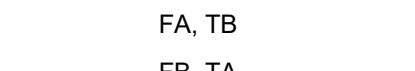
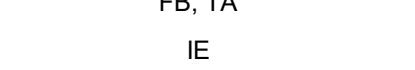
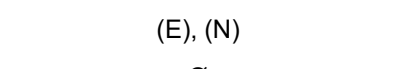
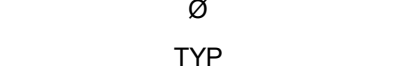

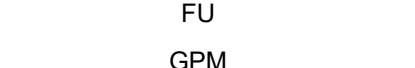
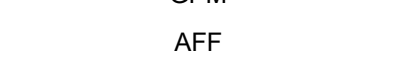
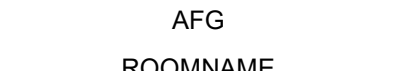
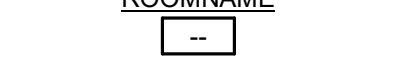



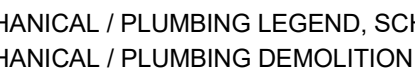
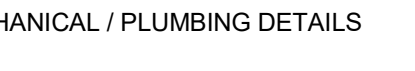
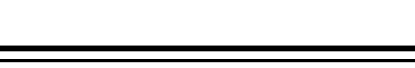





PLUMBING FIXTURE SCHEDULE	
FIXTURE	DESCRIPTION
WC-1	<b>WATER CLOSET</b> "AMERICAN STANDARD" MODEL #3351.101 AFWALL MILLENIUM FLOWISE WALL MOUNTED VITREOUS CHINA TOILET WITH MODEL #5901.100 HEAVY DUTY COVER, 1.6 GPF SELECTRONIC AC POWER HIGH EFFICIENCY SENSOR OPERATED FLUSHOMETER, EVERCLEAN SURFACE, AND ELONGATED BOWL. FURNISH WITH SLOAN ROYAL 111-1.28 AND OLSONITE MODEL #10SSCT TOILET SEAT
WC-2	<b>WATER CLOSET (ADA)</b> "AMERICAN STANDARD" MODEL #2294.001EC AFWALL FLOWISE ADA RETROFIT WALL MOUNTED VITREOUS CHINA TOILET WITH MODEL #5901.100 HEAVY DUTY COVER, 1.6 GPF SELECTRONIC AC POWER HIGH EFFICIENCY SENSOR OPERATED FLUSHOMETER, EVERCLEAN SURFACE, AND ELONGATED BOWL. FURNISH WITH SLOAN ROYAL 111-1.28 AND OLSONITE MODEL #10SSCT TOILET SEAT
UR-1	<b>UR-1</b> "AMERICAN STANDARD" MODEL #6590.510 WASHBROOK FLOWISE WALL HUNG VITREOUS CHINA URINAL WITH 0.5 GPF SELECTRONIC AC POWERED HIGH EFFICIENCY SENSOR OPERATED FLUSHOMETER.
L-1	<b>FIXTURE TYPE</b> "AMERICAN STANDARD" MURRO MODEL 0955.001EC WALL HUNG VITREOUS CHINA LAVATORY WITH CENTER HOLE AND OVERFLOW. FURNISH WITH "SLOAN" OPTIMA MODEL EAT-100 SENSOR FAUCET HARDWIRED WITH 1.5 GPM AERATOR. INSULATE HOT AND COLD WATER PIPING AND WASTE PIPING BELOW FIXTURE WITH "TRUE-BRO" LAV GUARD 2-E-Z SERIES PROTECTIVE MOLDED CLOSED CELL VINYL PIPE COVERS, WITH VANDAL RESISTANT SNAP-CLIP FASTENERS. FURNISH WITH NIBCO WEBSTONE MODEL H-77201W THERMOSTATIC MIXING VALVE SET TO 105°F, GRID DRAIN, 17 GA CHROME PLATED P-TRAP AND MCGUIRE ANGLE STOPS.
HB-1	<b>HB-1</b> "WOODFORD" MODEL 65 ANTI-SIPHON FREEZELESS WALL HYDRANT WITH VACUUM BREAKER & 3/4" THREADED HOSE CONNECTION. PROVIDE WITH LOOSE TEE KEY.

PLUMBING EQUIPMENT SCHEDULE	
EQUIP	DESCRIPTION
DWH 2	<b>DOMESTIC WATER HEATER</b> "LOCHINVAR" MODEL LCA-10(X)KW ASME ELECTRIC WATER HEATER, 10 GALLON STORAGE, 12 GPH RECOVERY @ 100°F RISE, 3 KW INPUT, 208V / 1PH, 14.4 FLA, 220LBS OP. WEIGHT.
CP 2	<b>CIRCULATOR PUMP</b> "TACO" MODEL #0034E PLUS ECM HIGH EFFICIENCY LEAD FREE STAINLESS STEEL CIRCULATOR INLINE CENTRIFUGAL PUMP CAPABLE OF SUPPLYING 2 GPM @ 10 TDH, 120V / 1PH, APPROX. WEIGHT = 15 LBS
ET 2	<b>EXPANSION TANK</b> "WATTS" MODEL DETA-5 DOMESTIC WATER EXPANSION TANK.

GENERAL NOTES
<ol style="list-style-type: none"> <li>ALL WORK AND MATERIALS SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE IBC, UMC, UPC, NEC, NFPA, NEVADA STATE FIRE MARSHAL REGULATIONS, LOCAL AND STATE ORDINANCES, AND INDUSTRY STANDARDS.</li> <li>THE INFORMATION REGARDING EXISTING CONDITIONS SHOWN ON THE DRAWINGS IS BELIEVED TO BE CORRECT, BUT IS NOT GUARANTEED. THE CONTRACTOR SHALL RELY ON SITE VISITS AND NECESSARY INVESTIGATION TO ENSURE THAT HIS BID IS CORRECT AND COMPLETE AS REQUIRED TO PROVIDE THE SCOPE OF WORK DESCRIBED ON THE DRAWINGS. EXTRA COST WILL NOT BE ALLOWED TO THE CONTRACTOR FOR FAILURE TO PERFORM THIS TASK.</li> <li>SUBMIT FOR REVIEW AND APPROVAL ELECTRONIC COPIES OF SUBMITTALS FOR ALL EQUIPMENT, DUCTWORK, AIR DISTRIBUTION, PLUMBING FIXTURES, INSULATION, VALVES, AND PIPING MATERIALS.</li> <li>AS-BUILT DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL UPON COMPLETION OF THE WORK, AND PRIOR TO FINAL PAYMENT. AS-BUILT DRAWINGS SHALL BE MAINTAINED ON SITE AS THE WORK PROGRESSES AND SHALL BE AVAILABLE FOR REVIEW BY THE OWNER AND/OR ARCHITECT/ENGINEER AT ALL TIMES.</li> <li>ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.</li> <li>THE WORK AND MATERIALS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER.</li> <li>REFER TO THE ARCHITECTURAL DRAWINGS FOR THE FULL EXTENT OF DEMOLITION AND NEW WORK TO BE PERFORMED.</li> <li>SEE ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS FOR HOLE CORING REQUIREMENTS.</li> <li>SEE ARCHITECTURAL PLANS FOR THE EXACT LOCATION OF ALL DIFFUSERS / GRILLES LOCATED IN CEILINGS.</li> <li>ALL EQUIPMENT, DUCTWORK, ETC. SHALL BE SUPPORTED AS REQUIRED TO PROVIDE A VIBRATION-FREE INSTALLATION.</li> <li>ALL DUCT BRANCH SIZES TO CEILING DIFFUSERS SHALL BE CEILING DIFFUSER NECK SIZE, EXCEPT WHERE NOTED OTHERWISE.</li> <li>PROVIDE FLEXIBLE DUCT CONNECTIONS WHEN CONNECTING DUCTWORK TO EQUIPMENT.</li> <li>TESTING AND BALANCING SHALL BE CONDUCTED BY AN AABC CERTIFIED TEST AND BALANCE CONTRACTOR. TEST AND BALANCE ALL AIR AND WATER SYSTEMS TO ACHIEVE THE LISTED VOLUMES. SET ALL VOLUME DAMPERS AND TEST/BALANCE SYSTEMS SUCH THAT THE VOLUME INDICATED ON THE DRAWINGS IS BEING DELIVERED. PROVIDE A WRITTEN REPORT SHOWING 'KA' FACTORS, FPM, AND CFM FOR EACH DIFFUSER, REGISTER, AND GRILLE, AND THE TOTAL AIR VOLUME FOR EACH TESTED SYSTEM. THE FINALIZED REPORT SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL UPON COMPLETION OF THE TESTING AND BALANCING AND BEFORE SCHEDULING THE FINAL OBSERVATION.</li> <li>FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 5'-0" (INSTALL IN CONCEALED LOCATIONS ONLY).</li> <li>COORDINATE THE EXACT SIZE AND LOCATION OF DUCTWORK WITH ALL OTHER TRADES.</li> <li>ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK. OFFSETS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AS REQUIRED.</li> <li>DO NOT ROUTE ANY PIPING DIRECTLY ABOVE ELECTRICAL EQUIPMENT, SWITCHBOARDS, DISTRIBUTION PANELS, MCCS, ETC. AS PROHIBITED BY THE 2017 NEC.</li> <li>COORDINATE THE ROUTING OF PLUMBING PIPING WITH EXISTING CONDITIONS PRIOR TO BEGINNING WORK. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES AS REQUIRED TO COMPLY WITH ADA REQUIREMENTS.</li> <li>INSULATE DOMESTIC HOT AND COLD WATER PIPING AND WASTE PIPING BELOW ADA PLUMBING FIXTURES WITH "TRUEBRO" LAV GUARD 2 PROTECTIVE MOLDED CLOSED-CELL VINYL PIPE COVERS WITH VANDAL RESISTANT SNAP-CLIP FASTENERS, AND WITH AN ASTM E84-07 FLAME/SMOKE TEST RATING OF 25/50 OR LESS.</li> <li>INSTALL A RIGID CAP ON ALL ABANDONED WATER, WASTE, AND VENT PIPING.</li> <li>PROVIDE ALL PLUMBING FIXTURES AND EQUIPMENT WITH ACCESSIBLE STOPS.</li> <li>PROVIDE A 1/8" X 6" STEEL BACKING PLATE BOLTED TO A MINIMUM OF 4 STUDS FOR ALL WALL-HUNG FIXTURES. PROVIDE CONCEALED ARMS FOR LAVATORIES BOLTING TO A BACKING PLATE.</li> <li>ADA WATER CLOSETS SHALL HAVE THE WATER ROUGH-IN LOCATED TO RESULT IN THE FLUSH HANDLE FACING THE WIDE SIDE OF THE STALL.</li> <li>THE OWNER SHALL HAVE SALVAGE RIGHTS TO ALL PLUMBING FIXTURES BEING REMOVED.</li> <li>IN ADDITION TO WHERE SHOWN ON THE DRAWINGS, PROVIDE CLEANOUTS FOR ALL URINALS &amp; LAVATORIES.</li> </ol>

MAXIMUM FIXTURE UNIT LOADING FOR WATER PIPE									
NOMINAL PIPE SIZE (INCHES)	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"
FIXTURE UNITS (WITHOUT FLUSH VALVES)	6	10	21	34	127	245	431	875	3150
FIXTURE UNITS (WITH ONE OR MORE FLUSH VALVES)	-	5	10	20	48	124	295	850	3150
<b>NOTES:</b> <ol style="list-style-type: none"> <li>USE ABOVE DATA ONLY WHEN PIPE SIZES ARE NOT OTHERWISE SIZED ON THE DRAWINGS</li> <li>FIXTURE UNITS ARE AS LISTED FOR PUBLIC USE IN UNIFORM PLUMBING CODE.</li> </ol>									

PLUMBING FIXTURE CONNECTION SCHEDULE									
FIXTURE	SYMBOL	WASTE		VENT	COLD WATER		HOT WATER		
		BRANCH	OUTLET		BRANCH	OUTLET	BRANCH	OUTLET	
WATER CLOSET (FV.)	WC	4"	4"	2"	1 1/4"	1"	-	-	
URINAL	UR	2"	2"	1 1/2"	1"	3/4"	-	-	
LAVATORY	L	2"	1 1/2"	1 1/2"	3/4"	1/2"	3/4"	1/2"	
HOSE BIBB	HB	-	-	-	1/2"	3/4"	-	-	
<b>NOTES:</b> <ol style="list-style-type: none"> <li>WATER BRANCH LINES WHERE LESS THAN 10'-0" LONG MAY BE SAME SIZE AS OUTLETS SCHEDULED ABOVE.</li> </ol>									

MECHANICAL / PLUMBING LEGEND	
	EXISTING ITEM TO BE REMOVED
	RETURN/EXHAUST AIR
	SUPPLY/OUTSIDE AIR
	RETURN OR EXHAUST AIR DUCT SECTION
	SUPPLY AIR DUCT SECTION
	DUCT POD/ POC
	DUCT (FIRST FIGURE SIDE SHOWN SECOND FIGURE SIDE NOT SHOWN)
	TURNING VANES
	FLEXIBLE DUCTWORK
	MANUAL DAMPER
	ROOM THERMOSTAT
	CUBIC FEET OF AIR PER MINUTE
	EXHAUST FAN
	DEGREES FAHRENHEIT
	GAUGE
	GALVANIZED
	MAXIMUM, MINIMUM
	MANUAL DAMPER
	POINT OF CONNECTION
	POINT OF DISCONNECT
	RETURN AIR, EXHAUST AIR
	SUPPLY AIR, OUTSIDE AIR
	REFERENCE
	SOIL OR WASTE LINE BELOW GRADE
	SOIL OR WASTE LINE ABOVE GRADE
	VENT LINE
	COLD WATER LINE
	HOT WATER LINE
	HOT WATER RETURN LINE
	DRAIN
	OVERFLOW DRAIN
	TEMPERATURE & PRESSURE RELIEF
	BALL VALVE
	BALANCE VALVE
	CHECK VALVE
	THERMOMETER
	PIPE POD/POC
	UNION
	UNDER FLOOR
	CLEANOUT TO FLOOR
	CLEANOUT TO GRADE
	CLEANOUT, WALL CLEANOUT
	COLD WATER
	HOT WATER
	WASTE
	FROM ABOVE, TO BELOW
	FROM BELOW, TO ABOVE
	INVERT ELEVATION
	EXISTING, NEW
	DIAMETER
	TYPICAL
	FLOOR DRAIN
	FIXTURE UNITS
	GALLONS PER MINUTE
	ABOVE FINISH FLOOR
	ABOVE FINISHED GRADE
	ROOM NAME AND NUMBER

DRAWING SHEET INDEX	
MP001	MECHANICAL / PLUMBING LEGEND, SCHEDULES, NOTES
MP100	MECHANICAL / PLUMBING DEMOLITION PLAN & RENOVATION PLAN
MP601	MECHANICAL / PLUMBING DETAILS

Professional Seal



10/31/2022 10:29:14 AM

Date Revision

Consultant



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JOB: 2022-052


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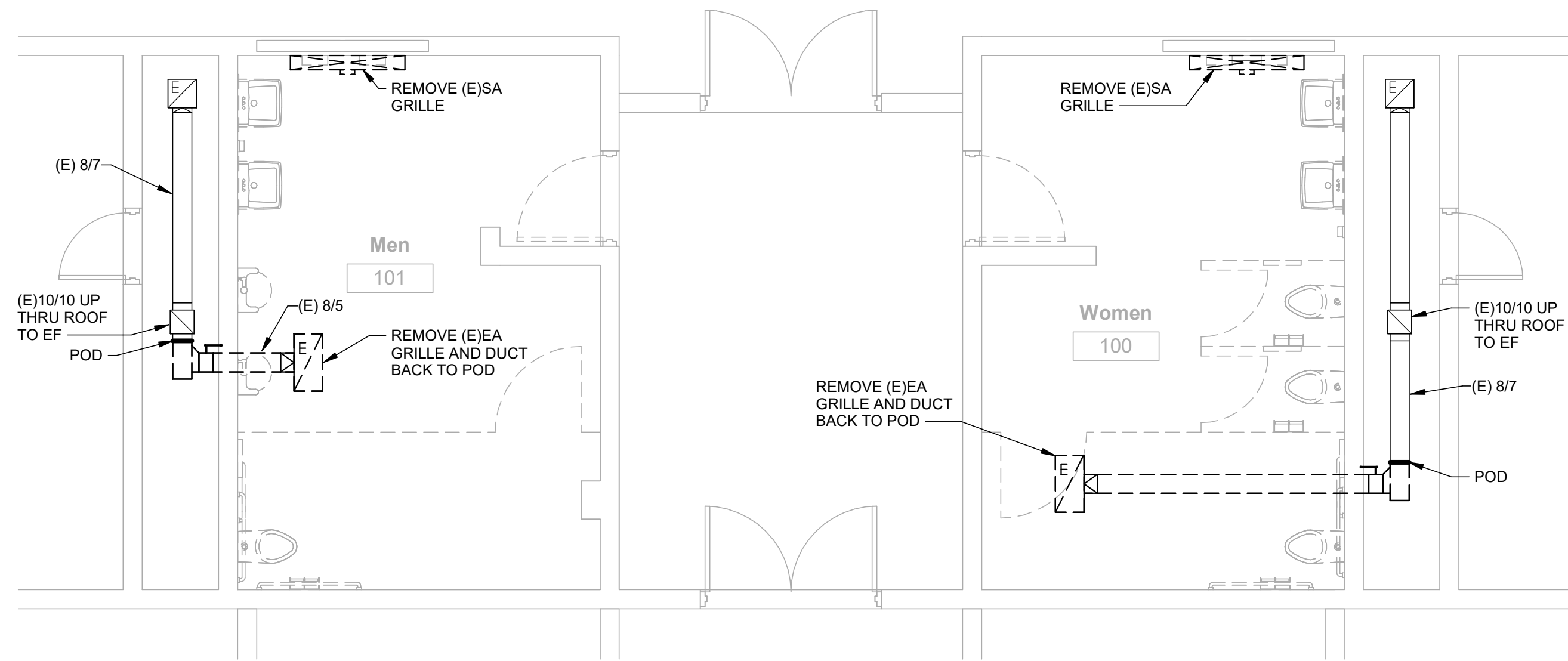
**Sparks Recreation Center Restroom Renovation**  
 APN: 028-330-57  
 98 Richards Way  
 Sparks, NV 89431

MECHANICAL / PLUMBING LEGEND, SCHEDULES, NOTES

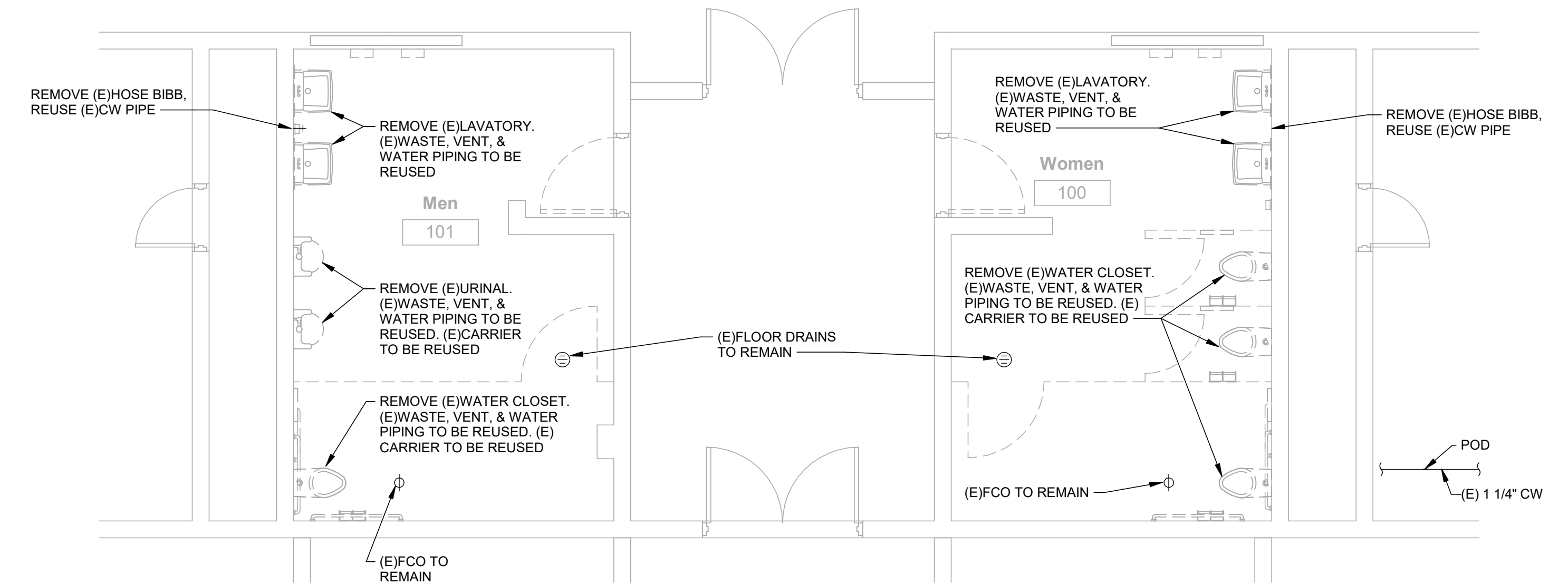
October 31, 2022  
 H+K Project No: 2222

**MP001**

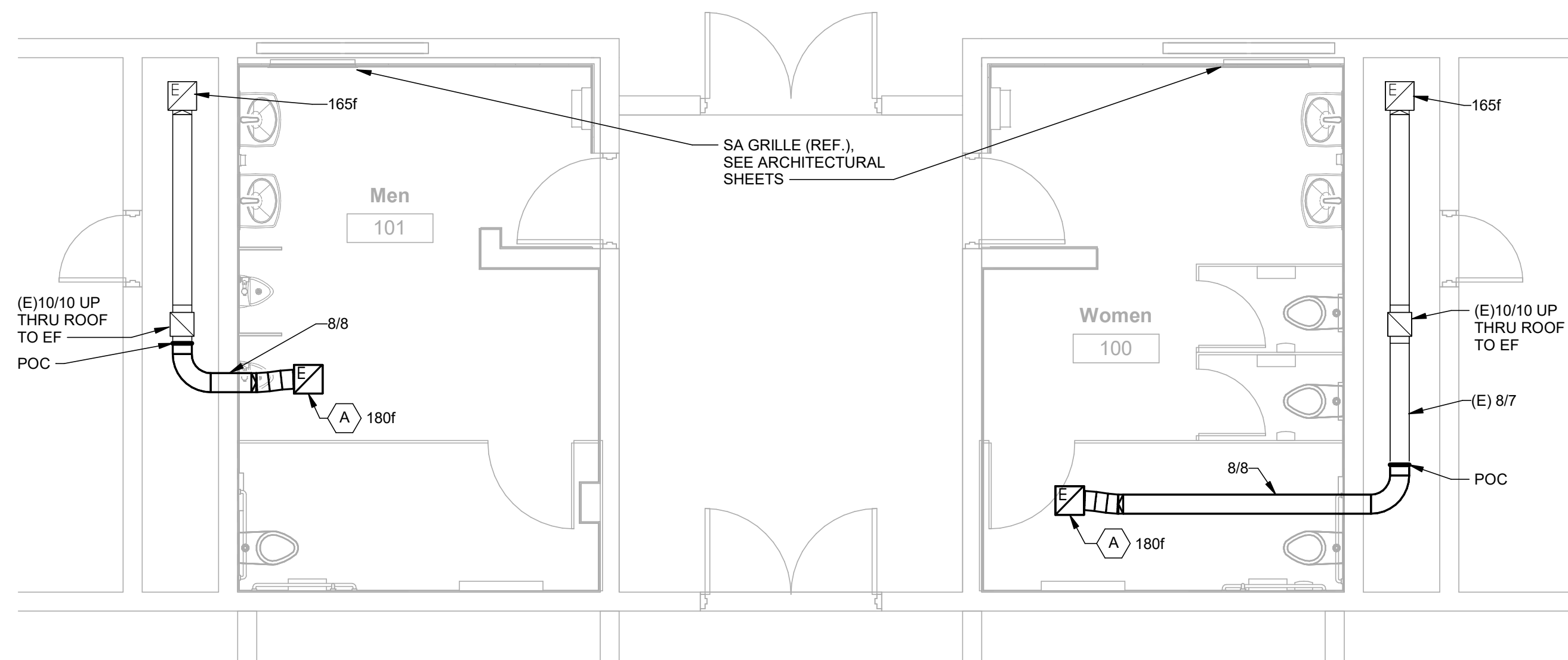




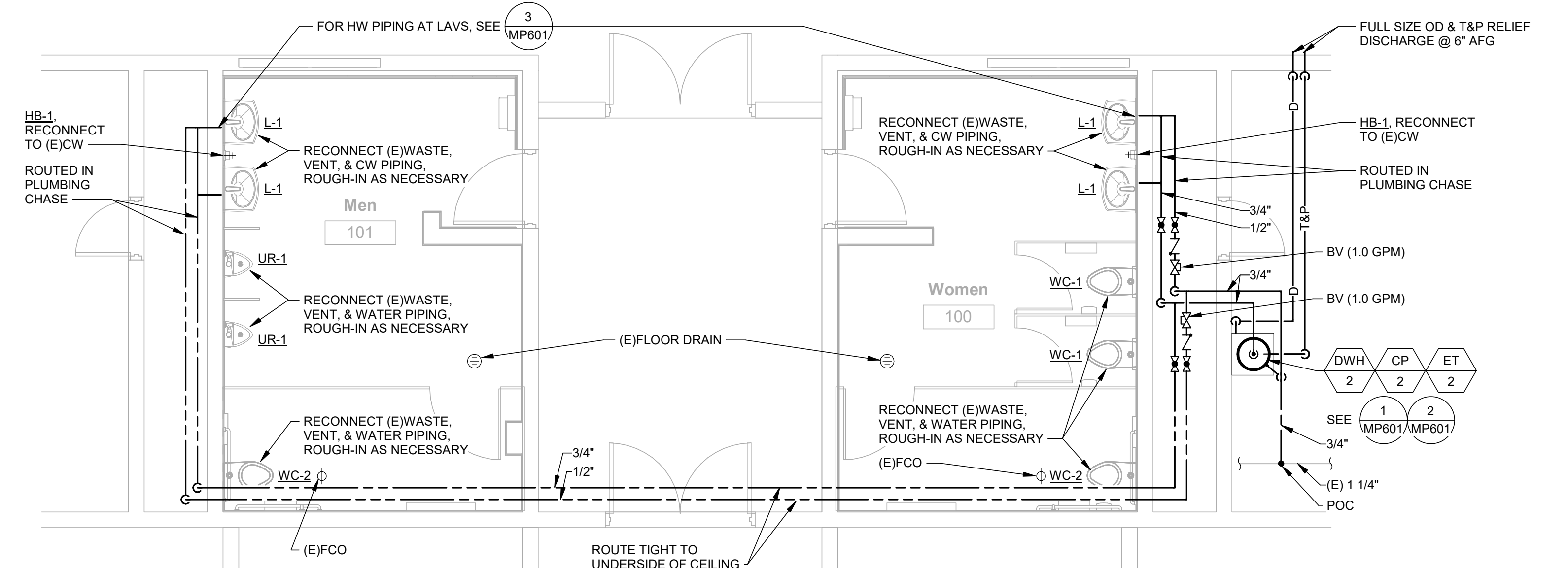
**MECHANICAL DEMOLITION PLAN** 1  
SCALE: 1/4" = 1'-0" MP100 N



**PLUMBING DEMOLITION PLAN** 5  
SCALE: 1/4" = 1'-0" MP100 N

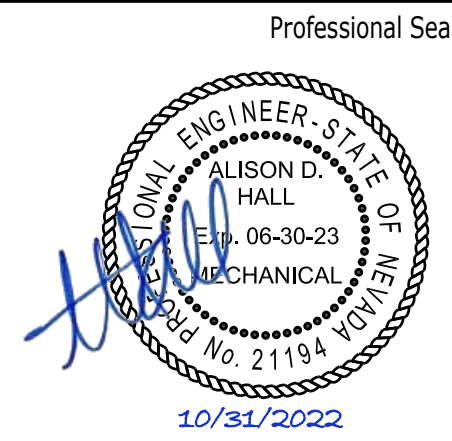


**MECHANICAL RENOVATION PLAN** 3  
SCALE: 1/4" = 1'-0" MP100 N



**PLUMBING RENOVATION PLAN** 4  
SCALE: 1/4" = 1'-0" MP100 N

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Date	Revision



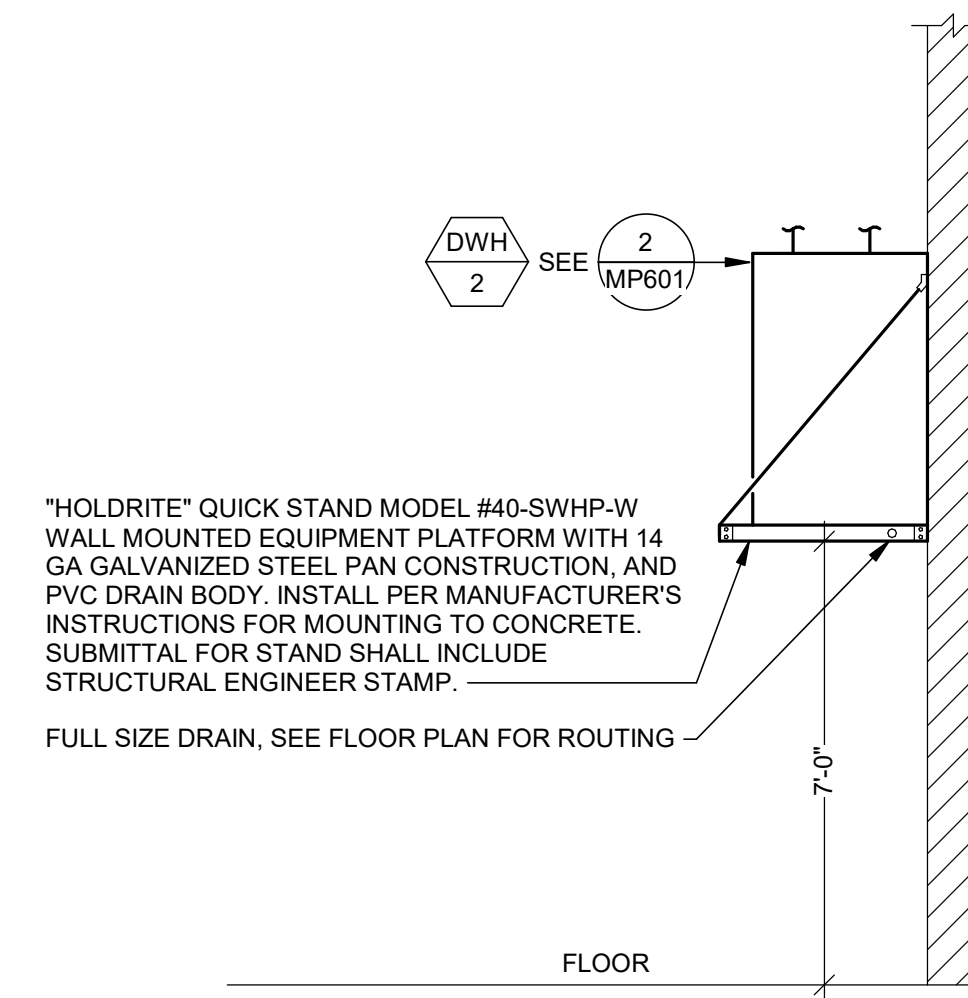
**AINSWORTH ASSOCIATES**  
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1420 HOLCOMB AVE., SUITE 201 4557 GREENVIEW DR.  
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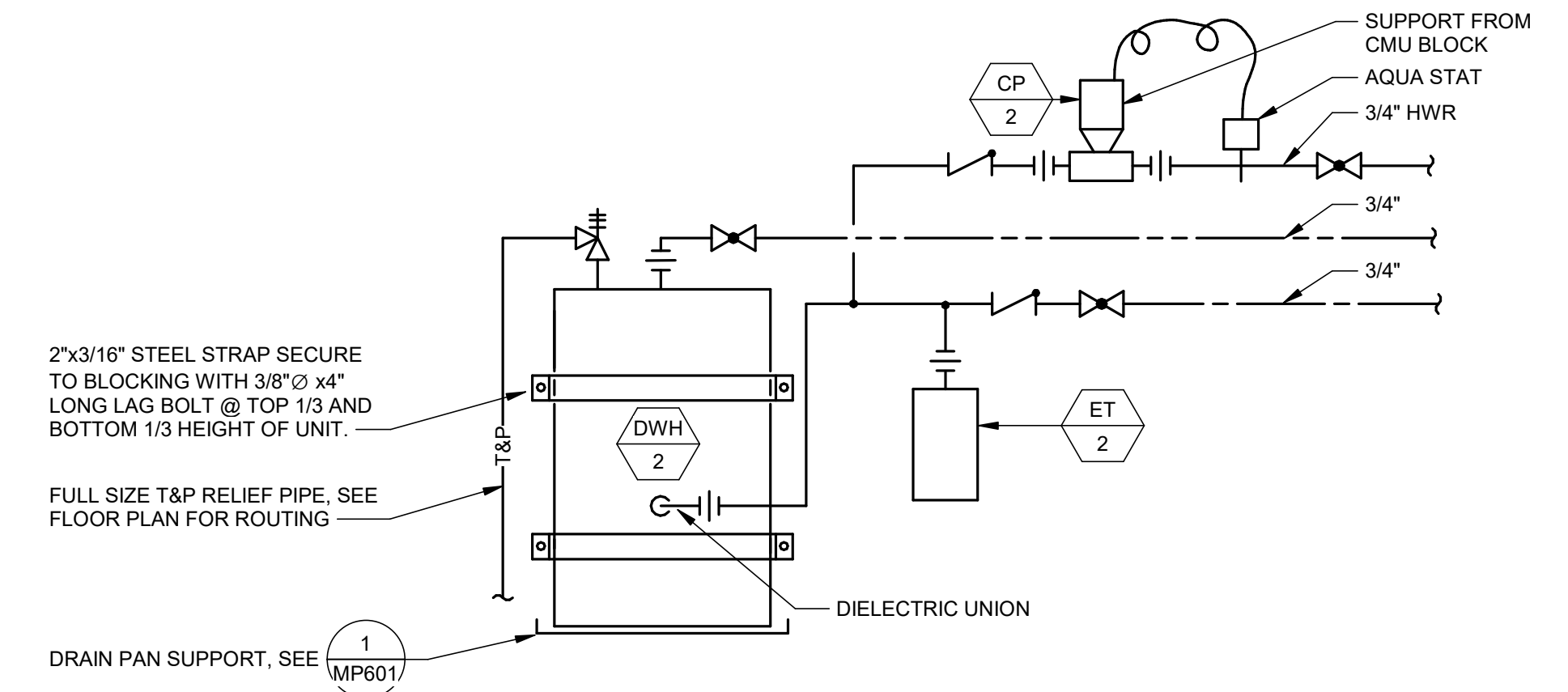
**Sparks Recreation Center  
Restroom Renovation**  
APN: 028-330-57  
98 Richards Way  
Sparks, NV 89431

MECHANICAL /  
PLUMBING DEMOLITION  
PLAN & RENOVATION  
PLAN  
October 31, 2022  
H+K Project No: 2222  
**MP100**

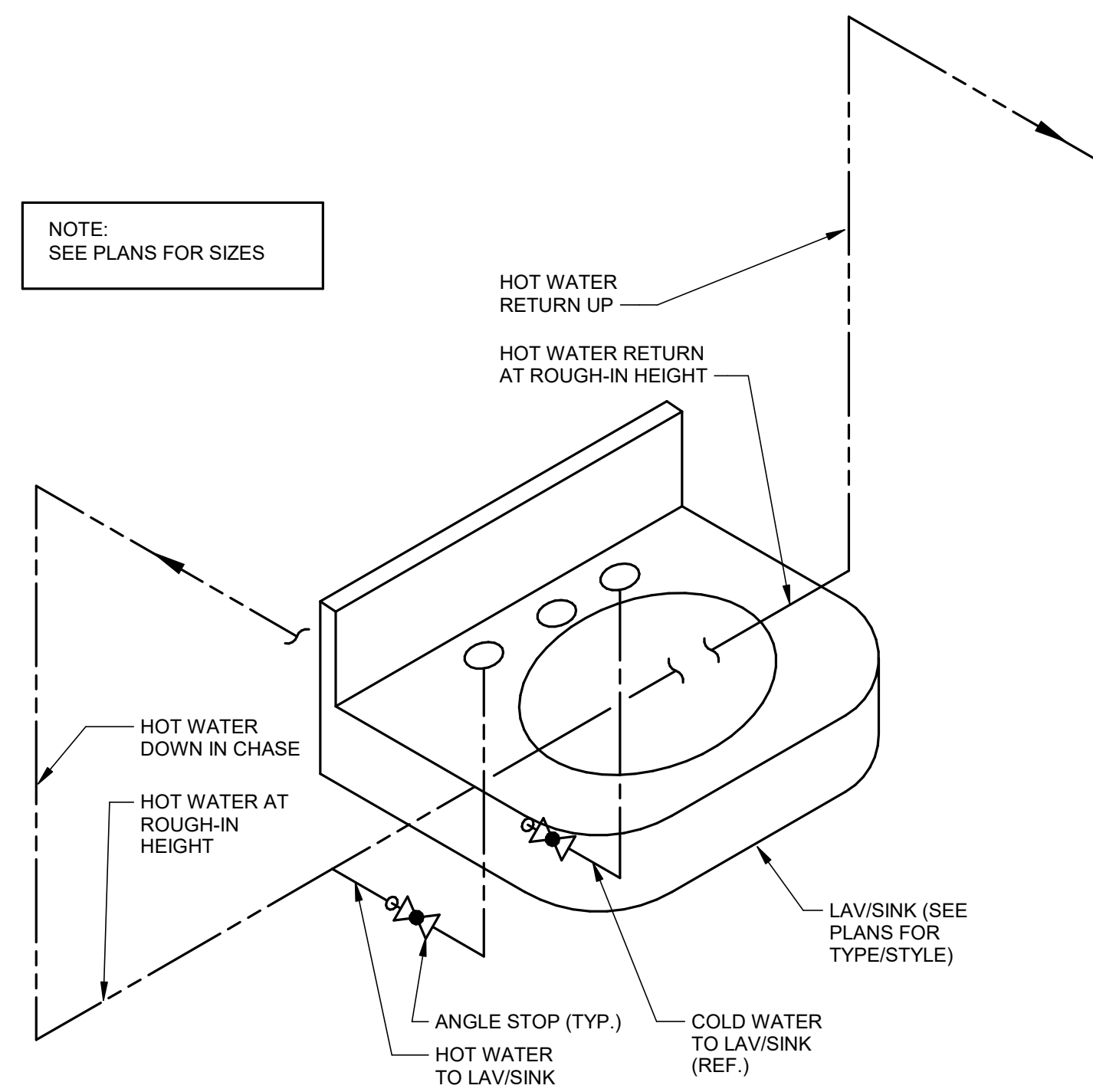




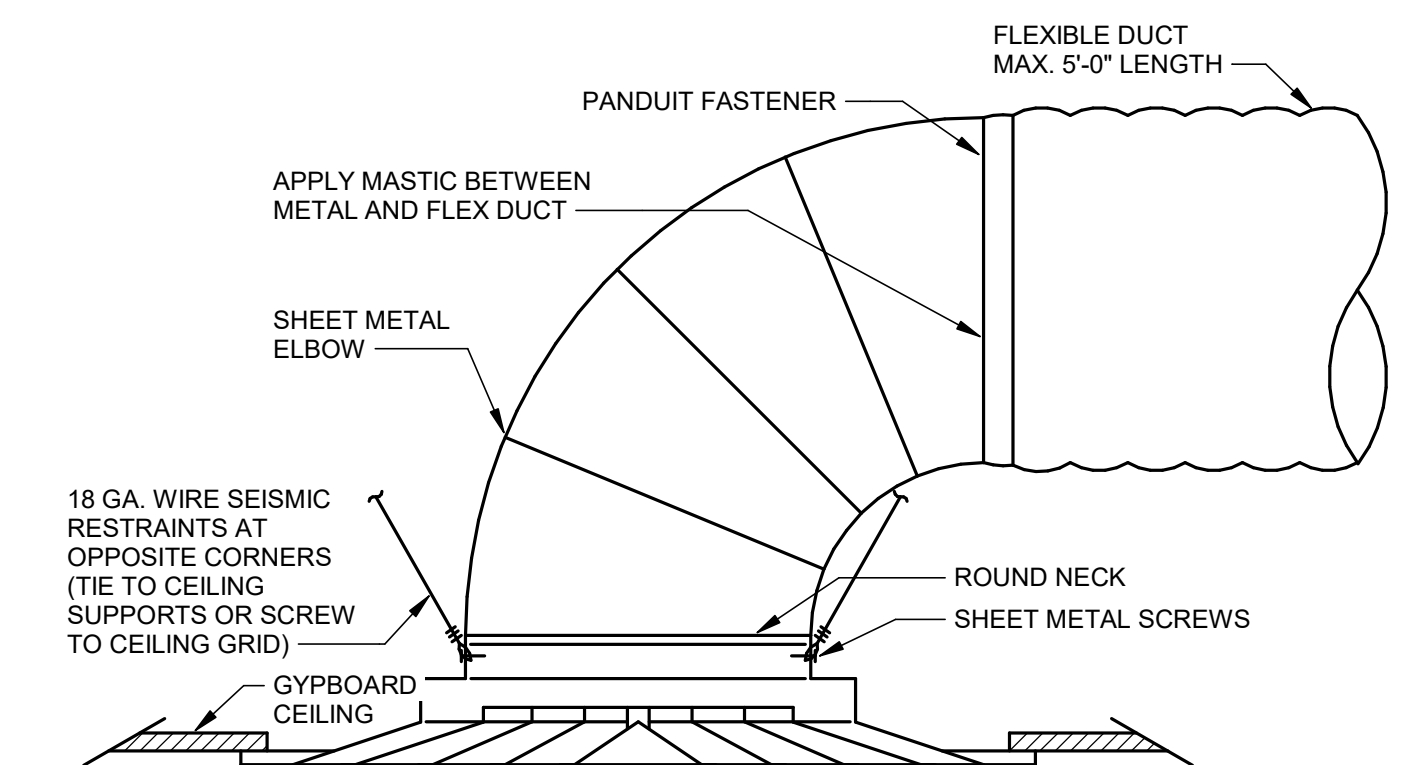
**DOMESTIC WATER HEATER SUPPORT** 1  
SCALE: NONE MP601



**DOMESTIC WATER HEATER PIPING DIAGRAM** 2  
SCALE: NONE MP601

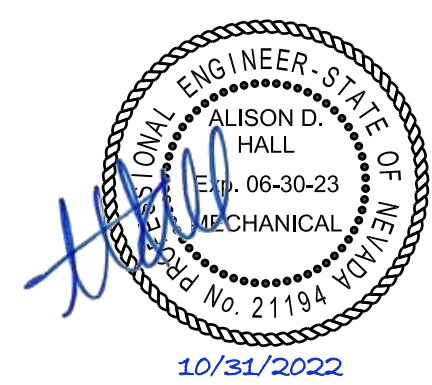


**HOT WATER PIPING BEHIND LAVS/SINKS** 3  
SCALE: NONE MP601



**HARD LID CEILING DIFFUSER** 4  
SCALE: NONE MP601

Professional Seal    △    Date    Revision



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Restroom Renovation**

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MECHANICAL /  
PLUMBING DETAILS

October 31, 2022  
H+K Project No: 2222

**MP601**



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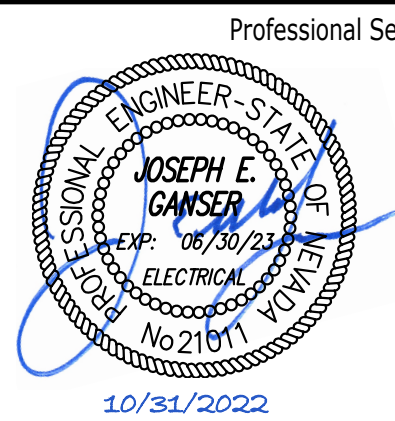


SHEET	DESCRIPTION
E001	Electrical Legend & Drawing Schedule
E002	Electrical Specifications
E003	Schedules and Calculations
E101	Electrical Demolition Plans
E201	New Electrical Plans
TOTAL SHEETS IN ISSUE: 6	

### ELECTRICAL LEGEND

<ul style="list-style-type: none"> <li>■ PANELBOARD: SURFACE MOUNTED</li> <li>■ PANELBOARD: FLUSH MOUNTED</li> <li>▨ SWITCHBOARD OR DISTRIBUTION PANEL</li> <li>⊠ TRANSFORMER</li> <li>⊠ PULLBOX / VAULT</li> <li>⊠ MOTOR STARTER</li> <li>⊠ COMBINATION MOTOR STARTER</li> <li>⊠ COMBINATION MOTOR STARTER PROVIDED BY OTHERS</li> <li>⊠ DISCONNECT SWITCH - FUSIBLE (FUSED PER EQUIP. NAMEPLATE)</li> <li>⊠ DISCONNECT SWITCH - NON-FUSIBLE</li> <li>⊠ DISCONNECT SWITCH PROVIDED BY OTHERS</li> <li>⊠ VARIABLE FREQUENCY DRIVE</li> <li>⊠ VARIABLE FREQUENCY DRIVE PROVIDED BY OTHERS</li> <li>⊠ ENCLOSED CIRCUIT BREAKER</li> <li>○ GROUND ROD</li> <li>⊠ SHUNT TRIP STATION OR EMERGENCY PUSHBUTTON</li> <li>⊠ REMOTE METER</li> </ul>	<ul style="list-style-type: none"> <li>○ SINGLE RECEPTACLE: 20A, 125V, NEMA 5-20, +18" AFF</li> <li>○ DUPLEX RECEPTACLE: 20A, 125V, NEMA 5-20, +18" AFF</li> <li>○ DUPLEX RECEPTACLE: HALF SWITCHED, +18" AFF</li> <li>○ DUPLEX RECEPTACLE GFI TYPE - 20A, 125V, NEMA 5-20 GFI +18" AFF</li> <li>○ QUAD RECEPTACLE: 20A, 125V, NEMA 5-20, +18" AFF</li> <li>○ ISOLATED GROUND TYPE RECEPTACLE (ORANGE TRIANGLE), 20A, 125V, NEMA 5-20IG, +18" AFF</li> <li>○ COMBO DUAL USB CHARGER / DUPLEX RECEPTACLE, 5.1A, (1) TYPE A &amp; (1) TYPE C USB (3.1, 3.0, 2.0 AND 1.1 COMPATIBLE), 20A, 125V, NEMA 5-20R, +18" AFF</li> <li>○ QUAD USB CHARGER, 5.1A, (2) TYPE A &amp; (2) TYPE C USB (3.1, 3.0, 2.0 AND 1.1 COMPATIBLE), +18" AFF</li> <li>○ SPECIAL PURPOSE RECEPTACLE: SEE DWGS FOR NEMA CONFIGURATION</li> <li>○ DUPLEX RECEPTACLE: FLOOR MOUNTED</li> <li>○ QUAD RECEPTACLE: FLOOR MOUNTED</li> <li>○ DUPLEX RECEPTACLE: CEILING MOUNTED</li> <li>○ QUAD RECEPTACLE: CEILING MOUNTED</li> <li>○ BLANK GFCI PROTECTIVE DEVICE IN READILY ACCESSIBLE LOCATION (LABEL PROTECTED DEVICES)</li> <li>○ DUPLEX "CLOCK" RECEPTACLE: 125V, NEMA 5-20R, +60" AFF</li> <li>○ DEVICE MOUNTED AT NON-STANDARD HEIGHT. IF NO HEIGHT SHOWN VERIFY HEIGHT WITH ARCHITECT</li> <li>○ MULTI-OUTLET ASSEMBLY: SPACING PER DWGS</li> </ul>	<ul style="list-style-type: none"> <li>⊠ GROUND FAULT INTERRUPTER DEVICE</li> <li>⊠ METERING DEVICE</li> <li>⊠ REMOTE METER</li> <li>⊠ SHUNT TRIP DEVICE</li> <li>⊠ TRANSFORMER</li> <li>⊠ CURRENT TRANSFORMER</li> <li>⊠ GENERATOR</li> <li>⊠ MOTOR - # INDICATES HP</li> <li>⊠ INTERRUPTER SWITCH</li> <li>⊠ GROUND FAULT RELAY W/ CT OR SENSOR</li> <li>⊠ FUSE</li> <li>⊠ CIRCUIT BREAKER</li> <li>⊠ DRAWOUT CIRCUIT BREAKER</li> <li>⊠ TRANSFER SWITCH (A=AUTOMATIC, M=MANUAL) # FOR POLES 2, 3 OR 4</li> <li>⊠ SURGE PROTECTION DEVICE</li> </ul>	<ul style="list-style-type: none"> <li>⊠ NORMALLY OPEN (NO) CONTACT</li> <li>⊠ NORMALLY CLOSED (NC) CONTACT</li> <li>⊠ COIL - VOLTAGE PER CONTROL DIAGRAMS</li> <li>⊠ PILOT LIGHT (LED) PUSH-TO-TEST. LETTER INDICATES COLOR (R=RED, G=GREEN, A=AMBER, Y=YELLOW)</li> <li>⊠ PILOT LIGHT (LED) NON PUSH-TO-TEST</li> <li>⊠ THERMAL OVERLOAD</li> <li>⊠ MAGNETIC OVERLOAD</li> <li>⊠ PUSH BUTTON NORMALLY OPEN (NO)</li> <li>⊠ PUSH BUTTON NORMALLY CLOSED (NC)</li> <li>⊠ HAND-OFF-AUTO (HOA) SELECTOR SWITCH</li> <li>⊠ LIMIT SWITCH NORMALLY OPEN (NO)</li> <li>⊠ LIMIT SWITCH NORMALLY CLOSED (NC)</li> <li>⊠ PUSH BUTTON ILLUMINATED (LED)</li> </ul>	<ul style="list-style-type: none"> <li>A AMPS</li> <li>ADA AMERICANS WITH DISABILITIES ACT</li> <li>AFC ABOVE FINISHED CEILING</li> <li>AFCI ARC-FAULT CIRCUIT INTERRUPTER</li> <li>AFF ABOVE FINISHED FLOOR</li> <li>AFG ABOVE FINISHED GRADE</li> <li>AHJ AUTHORITY HAVING JURISDICTION</li> <li>AIC AMP INTERRUPTING CAPACITY</li> <li>AL ALUMINUM</li> <li>ATS AUTOMATIC TRANSFER SWITCH</li> <li>AWG AMERICAN WIRE GAUGE</li> <li>BC BARE COPPER</li> <li>BKR BREAKER</li> <li>C CONDUIT/RACEWAY</li> <li>CEC CALIFORNIA ENERGY COMMISSION</li> <li>CKT CIRCUIT</li> <li>CLG CEILING</li> <li>CO CONDUIT/RACEWAY ONLY</li> <li>CT CURRENT TRANSFORMER</li> <li>CJ COPPER</li> <li>DB DISTRIBUTION BOARD</li> <li>DDC DIRECT DIGITAL CONTROLLER</li> <li>DPDT DOUBLE-POLE, DOUBLE-THROW</li> <li>DPST DOUBLE-POLE, SINGLE-THROW</li> <li>DWG DRAWING</li> <li>(E) EXISTING TO REMAIN</li> <li>ELEC ELECTRICAL</li> <li>EM EMERGENCY</li> <li>EMT ELECTRICAL METALLIC TUBING</li> <li>(F) FUTURE</li> <li>FLA FULL LOAD AMPS</li> <li>FMC FLEXIBLE METAL CONDUIT (STEEL)</li> <li>FPEN FUSE PER EQUIP. NAMEPLATE</li> <li>GFI GROUND FAULT INTERRUPT</li> <li>GFR GROUND FAULT RELAY</li> <li>GND GROUND</li> <li>HID HIGH INTENSITY DISCHARGE</li> <li>HOA HAND-OFF-AUTO SWITCH</li> <li>HP HORSEPOWER</li> <li>HSKP HOUSEKEEPING</li> <li>IMC INTERMEDIATE METAL CONDUIT</li> <li>J-BOX JUNCTION BOX</li> <li>KVA KILOVOLT AMPS</li> <li>KVA kcmil (300k = 300 kcmil)</li> <li>KVA KILOWATT</li> <li>LTG LIGHTING</li> <li>IG ISOLATED GROUND</li> <li>MCB MAIN CIRCUIT BREAKER</li> <li>MCM THOUSAND CIRCULAR MILS</li> <li>MFG MANUFACTURER</li> <li>MLO MAIN LUGS ONLY</li> <li>MS MOTOR STARTER</li> <li>MSB MAIN SWITCHBOARD</li> <li>MTS MANUAL TRANSFER SWITCH</li> <li>NC NORMALLY CLOSED</li> <li>NEC NATIONAL ELECTRICAL CODE</li> <li>NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION</li> <li>NIC NOT IN CONTRACT</li> <li>NL NIGHTLIGHT</li> <li>NO NORMALLY OPEN</li> <li>NTS NOT TO SCALE</li> <li>NVE NV ENERGY</li> <li>P POLE</li> <li>PH/Ø PHASE</li> <li>PV PHOTOVOLTAIC</li> <li>PNL PANEL</li> <li>PTC PV USA TEST CONDITIONS</li> <li>PWR POWER</li> <li>(R) RELOCATE/RELOCATED</li> <li>(RR) REMOVE AND REPLACE</li> <li>RAC RIGID ALUMINUM CONDUIT</li> <li>RFC RIGID FIBERGLASS CONDUIT</li> <li>RSC RIGID STEEL CONDUIT</li> <li>SE SERVICE ENTRANCE</li> <li>SPD SURGE PROTECTION DEVICE</li> <li>SPDT SINGLE-POLE, DOUBLE-THROW</li> <li>SPST SINGLE-POLE, SINGLE-THROW</li> <li>STC STANDARD TEST CONDITIONS</li> <li>SW SWITCH</li> <li>TE TELECOM</li> <li>TTB TELEPHONE TERMINATION BOARD</li> <li>TYP TYPICAL</li> <li>UL UNDERWRITER'S LABORATORY</li> <li>UNO UNLESS NOTED OTHERWISE</li> <li>UNSW UNSWITCHED</li> <li>UPS UNINTERRUPTED POWER SUPPLY</li> <li>V VOLTS</li> <li>VA VOLT AMPS</li> <li>VFD VARIABLE FREQUENCY DRIVE</li> <li>W WATTS</li> <li>WP WEATHER PROOF</li> <li>(X) EXISTING TO BE REMOVED</li> <li>XFMR OR XF TRANSFORMER</li> </ul>
<ul style="list-style-type: none"> <li>⊠ SINGLE POLE SWITCH 48" AFF</li> <li>⊠ THREE WAY SWITCH 48" AFF</li> <li>⊠ FOUR WAY SWITCH 48" AFF</li> <li>⊠ KEY OPERATED SWITCH 48"</li> <li>⊠ SWITCH WITH LIGHTED HANDLE</li> <li>⊠ MANUAL MOTOR STARTER</li> <li>⊠ SWITCH WITH PILOT LIGHT 48" AFF</li> <li>⊠ TIME WALL SWITCH EQUAL TO HUBBELL DT2000W 48" AFF</li> <li>⊠ DIMMER OPERATED SWITCH 48" AFF</li> <li>⊠ OCCUPANCY SENSOR - WALL MOUNTED 48" AFF</li> <li>⊠ 0-10V DIMMING OCCUPANCY SENSOR - WALL MOUNTED 48" AFF EQUAL TO SENSOR SWITCH WSX-D</li> <li>⊠ OCCUPANCY SENSOR - CEILING MOUNTED. PROVIDE WITH POWER PACK PER MFG REQUIREMENTS.</li> <li>⊠ OCCUPANCY SENSOR - CORNER MOUNTED. PROVIDE WITH POWER PACK PER MFG REQUIREMENTS.</li> <li>⊠ CONTACTOR OR RELAY</li> <li>⊠ PHOTOELECTRIC CELL (ON ROOF FACING NORTH UNO)</li> <li>⊠ TIMECLOCK</li> </ul>	<ul style="list-style-type: none"> <li>⊠ DATA / VOICE OUTLET: 18" AFF - 1 VOICE, 1 DATA JACK, 2 BLANKS</li> <li>⊠ DATA / VOICE OUTLET: FLOOR MOUNTED</li> <li>⊠ MULTI-OUTLET ASSEMBLY: SPACING PER DWGS</li> <li>⊠ TELEPHONE OUTLET: 18" AFF</li> <li>⊠ DATA OUTLET: 18" AFF</li> <li>⊠ DEVICE MOUNTED AT NON-STANDARD HEIGHT. IF NO HEIGHT SHOWN VERIFY HEIGHT WITH ARCHITECT</li> <li>⊠ SPEAKER</li> <li>⊠ TELEVISION OUTLET: 18" AFF (UNO)</li> <li>⊠ TELEPHONE TERMINAL BOARD (TTB)</li> <li>⊠ VOLUME CONTROL</li> <li>⊠ GROUNDING BAR</li> </ul>	<ul style="list-style-type: none"> <li>⊠ LENDED TROFFER</li> <li>⊠ VOLUMETRIC TROFFER</li> <li>⊠ FLANGED TROFFER</li> <li>⊠ SURFACE MOUNT TROFFER</li> <li>⊠ STRIP FIXTURE</li> <li>⊠ DOWNLIGHT</li> <li>⊠ WALL PACK</li> <li>⊠ POLE MOUNT</li> <li>⊠ EMERGENCY LIGHTING UNIT</li> <li>⊠ EXIT SIGN FIXTURE - SHADED AREA DENOTES LIGHTED FACE - ARROWS INDICATE DIRECTION</li> <li>⊠ SHADING INDICATES EGRESS FIXTURE</li> </ul>	<ul style="list-style-type: none"> <li>⊠ THERMOSTAT (PROVIDED BY MECH. CONTRACTOR UNO)</li> <li>⊠ JUNCTION BOX (SIZE AS REQUIRED UNO)</li> <li>⊠ SHEET NOTE DESIGNATION</li> <li>⊠ FIXTURE DESIGNATION: F1=TYPE (SEE FIXTURE SCH.)</li> <li>⊠ REVISION DELTA: NUMBER REPRESENTS REVISION</li> <li>⊠ FEEDER DESIGNATION</li> <li>⊠ EQUIPMENT CONNECTION</li> </ul>	<ul style="list-style-type: none"> <li>⊠ TICS = NO. OF #12 WIRES (UNO) IF MORE THAN TWO WITHIN RACEWAY. GROUNDING CONDUCTOR (NOT SHOWN) ALWAYS REQUIRED.</li> <li>⊠ ISOLATED GROUNDING CONDUCTOR</li> <li>⊠ NEUTRAL CONDUCTOR</li> <li>⊠ PHASE CONDUCTOR(S)</li> <li>⊠ BRANCH CIRCUIT (WHEN TIC MARKS ARE NOT SHOWN) = (1) PHASE, (1) NEUTRAL AND (1) GROUNDING CONDUCTOR</li> <li>⊠ HOMERUN TO PANELBOARD OR DEVICE</li> <li>⊠ HOMERUN CIRCUIT DESIGNATION</li> <li>⊠ GROUNDING CONDUCTOR</li> <li>⊠ NEUTRAL CONDUCTOR (N=1, 2N=2 NEUTRALS, 3N=3 NEUTRALS)</li> <li>⊠ PHASE CONDUCTOR(S)</li> <li>⊠ PANELBOARD DESIGNATION</li> <li>⊠ HOMERUN CIRCUIT DESIGNATION (3 PHASE CIRCUIT SHOWN)</li> <li>⊠ GROUNDING CONDUCTOR</li> <li>⊠ PHASE CONDUCTOR(S)</li> <li>⊠ PANELBOARD DESIGNATION</li> </ul>
<ul style="list-style-type: none"> <li>— CONDUIT/RACEWAY IN WALL OR ABOVE CEILING</li> <li>--- CONDUIT/RACEWAY BELOW GRADE OR BELOW FLOOR</li> <li>— OH — BREAK OR RUN CONTINUES</li> <li>— OH — OVERHEAD SERVICE</li> <li>— P — PRIMARY</li> <li>— S — SECONDARY</li> <li>— C — COMMUNICATIONS OR SIGNAL</li> <li>— T — TELEPHONE</li> <li>— TV — TELEVISION</li> <li>— · — LOW VOLTAGE AND/OR CONTROL WIRING</li> <li>— · — EMERGENCY CIRCUIT</li> <li>— ] CONDUIT/RACEWAY STUB OUT. MARK AND CAP (SITE)</li> <li>— ] CONDUIT/RACEWAY SLEEVE</li> </ul>	<ul style="list-style-type: none"> <li>E = EQUIPMENT</li> <li>H = ELECTRIC HEAT</li> <li>K = KITCHEN EQUIP</li> <li>L = LIGHTING</li> <li>M = MOTOR</li> <li>M1 = LARGEST MOTOR</li> <li>R = RECEPTACLES</li> </ul>	<p>* FIXTURE SCHEDULE HAS PRECEDENCE *</p>	<p>NOTE: THIS IS A MASTER SYMBOL LIST. IT MAY BE THAT NOT ALL SYMBOLS SHOWN ARE USED WITHIN THIS SET OF PLANS. HEIGHTS GIVEN ARE TO TOP OF BOX.</p>	

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### Sparks Recreation Center Restroom Renovation

98 Richards Way  
 Sparks, NV 89431

Electrical Legend &  
 Drawing Schedule

October 31, 2022  
 H+K Project No: 2222

# E001



SECTION 260000 ELECTRICAL SPECIFICATIONS

Table with 6 columns: ITEM, DESCRIPTION, ITEM, DESCRIPTION, ITEM, DESCRIPTION. It details specifications for electrical work including materials, wiring, and safety.

Autodesk Docu7/7222 Sparks Rec Room Renovation/22105 - Sparks Recreation Restrooms Renovation - ELEC23.rvt

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Professional Seal, Date, Revision, and signature of Joseph E. Ganser, State of Nevada Professional Engineer No 21671.

PK Electrical, Inc. Engineering Design Consulting. 681 Sierra Rose Drive, Suite B | Reno, NV 89511 | 775.826.9010

H+K ARCHITECTS 5485 Reno Corporate Drive, Suite 100 Reno, Nevada 89511-2262

Sparks Recreation Center Restroom Renovation 98 Richards Way Sparks, NV 89431


Electrical Specifications October 31, 2022 H+K Project No: 2222 E002

Panel: (E) PNL A				Location:								
Type	Description	Trip	Poles	#	A	B	#	Poles	Trip	Description	Type	
--	GYM CURTAIN	20	1	1	1500	0 VA		2	1	20	FURNACE ROOM/STORAGE LTG	--
<b>E</b>	<b>CP-2 PLUMBING FIXTURES</b>	20	1	3		386 VA	0 VA	4	1	20	BATHROOM/STORAGE LIGHTS	--
--	GYM LIGHTS ROW #2	20	1	5	900	0 VA		6	1	20	SPARE	--
--	GYM LIGHTS ROW #1	20	1	7		900 VA	0 VA	8	1	20	SPARE	--
--	GYM LIGHTS ROW #3	30	1	9	900	0 VA		10	1	20	SPARE	--
<b>M</b>	<b>[1]DWH-2</b>	<b>20</b>	<b>2</b>	<b>11</b>		1500 VA	900 VA	<b>12</b>	<b>1</b>	<b>30</b>	GYM LIGHTS ROW #4	--
--	GYM LIGHTS ROW #7	30	1	15	1500	0 VA		14	1	30	SPARE	--
--	SPARE	30	1	17	0	0 VA		16	1	30	GYM LIGHTS ROW #5	--
--	GYM LIGHTS ROW #6	30	1	19		900 VA	0 VA	20	1	30	SPARE	--
--	SPARE	30	1	21	0	1080 VA		22	1	20	PLUG N.E. STORAGE	--
--	SPARE	20	1	23		0 VA	0 VA	24	1	20	SPARE	--
--	EAST GYM PLUGS	20	1	25	1080	1080 VA		26	1	20	NORTH PLUGS	--
--	FURNACE TIMER	20	1	27		500 VA	500 VA	28	1	20	NIGHT LIGHT	--
--	SPACE	--	1	29	--	--		30	1	--	SPACE	--
				<b>Total Load:</b>	8040 VA		7386 VA					
				<b>Total Amps:</b>	67 A		62 A					

<b>Copper Bus Size</b>	200	<b>Ground</b>	Standard	<b>Notes:</b>
<b>Voltage</b>	120/240 Single	<b>Mounting</b>	Flush	BOLD INDICATES NEW OR MODIFIED LOADS.
<b>Phase</b>	1	<b>Enclosure</b>	NEMA 1	[1] PROVIDE NEW BREAKER TO MATCH EXISTING AIC RATING.
<b>Wire</b>	3	<b># of 1-Pole Circuits</b>	30	PANEL TYPE
<b>Lugs</b>	MLO	<b>Connected kVA:</b>	15426 VA	
<b>Breaker AIC Rating</b>	EXISTING	<b>Connected Amps:</b>	64 A	
<b>Neutral</b>	100.00%	<b>Demand kVA:</b>	16176 VA	
<b>Feeder OCPD Size</b>	200	<b>Demand Amps:</b>	<b>67 A</b>	

LIGHTING FIXTURE SCHEDULE	
LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE TRIMS, BALLASTS, MOUNTING EQUIPMENT, FITTINGS AND LAMPS AS REQUIRED BY THE SPECIFICATIONS AND PROJECT CONDITIONS FOR A COMPLETE INSTALLATION THIS IS NOT A STANDALONE SCHEDULE AND FIXTURES MUST INCORPORATE ALL WORK INDICATED OR IMPLIED THROUGHOUT THE DRAWINGS AND SPECIFICATIONS.	
LIGHTING SYSTEM FOOTCANDLE LEVELS ARE BASED ON THE UTILIZATION OF STANDARD REFLECTANCES OF 80-50-20 (CEILING-WALL-FLOOR) PER I.E.S. (ILLUMINATED ENGINEERING SOCIETY). THE ROOM SURFACES ARE USED AS AN INTEGRAL COMPONENT OF THE LIGHTING SYSTEMS. THE REFLECTANCE OF THE SURFACE PAINT COLOR, MATERIAL, AND OTHER ROOM SURFACES DIRECTLY AFFECTS THE DELIVERY OF LIGHT TO THE WORK PLANE. A SIGNIFICANT DROP IN OVERALL LIGHTING LEVELS WILL OCCUR IF REFLECTANCES ARE LOWERED. THE ARCHITECT/OWNER SHALL NOTIFY THE ENGINEER IMMEDIATELY IF FINISHES DO NOT FALL IN LINE WITH THE REFLECTANCES MENTIONED ABOVE.	
SUBSTITUTION: DEFINITIONS OR EQUAL = EQUAL OR SUPERIOR TO SPECIFIED IN ALL RESPECTS WILL BE ALLOWED. ENGINEER'S PRE-BID APPROVAL IS NOT REQUIRED. PROPOSED EQUAL FIXTURES ARE SUBJECT TO REVIEW DURING THE STANDARD SUBMITTAL PROCESS.  NO EQUAL = PROVIDE SPECIFIED FIXTURE. SUBSTITUTIONS ARE NOT ALLOWED.  SUBJECT TO REVIEW = EQUAL OR SUPERIOR TO SPECIFIED IN ALL RESPECTS MAY BE ALLOWED ONLY WITH ENGINEER'S APPROVAL. ALL SUBSTITUTIONS MUST BE SUBMITTED AS REQUIRED BY SPECIFICATIONS AND ACCOMPANIED WITH POINT BY POINT LIGHTING CALCULATIONS. DETERMINATION OF EQUAL IS ENGINEER'S SOLE DISCRETION.	
L1	2' BY 2' SURFACE MOUNTED LED FIXTURE, SCRATCH AND IMPACT REISTANT WHITE FROST LENS, 0-10 VOLT DIMMING.  SOURCE: LED, 3333 LUMENS, 4000K VOLTAGE: 120 V MANUFACTURER: METALUX 22FP2140C-FPSURF22  SUBSTITUTIONS: <input type="radio"/> OR EQUAL <input checked="" type="radio"/> SUBJECT TO REVIEW <input type="radio"/> NO EQUAL
21 VA	SAME AS L1 W/ 10 WATT EMERGENCY BATTERY PACK.
LIX	LED, 3333 LUMENS, 4000K VOLTAGE: 120 V MANUFACTURER: METALUX 22FP2140C-EL10W-FPSURF22  SUBSTITUTIONS: <input type="radio"/> OR EQUAL <input checked="" type="radio"/> SUBJECT TO REVIEW <input type="radio"/> NO EQUAL
21 VA	


**COMcheck Software Version 4.1.4.0**  
**Interior Lighting Compliance Certificate**

**Project Information**

Energy Code: 2018 IECC  
Project Title: Sparks Recreation Center Restroom Renovation  
Project Type: Alteration

Construction Site: 98 Richards Way Sparks, NV 89431  
Owner/Agent: Sparks City Parks & Recreation 98 Richards Way Sparks, NV 89431  
Designer/Contractor: Joseph Ganser PK Electrical 681 Sierra Rose Dr. Suite b Reno, NV 89511 775-826-9010

**Allowed Interior Lighting Power**

A	B	C	D
Area Category	Floor Area (ft2)	Allowed Watts / ft2	Allowed Watts (B X C)
1-Restrooms (Common Space Types-Restrooms): Exempt			Total Allowed Watts = N/A

**Area Category Exemption Qualifications**

Activity Area	# Fixtures		Total # Watts	
	Pre-Alt.	Repl./Added	Pre-Alt.	Post-Alt.
Restrooms ( Common Space Types-Restrooms 432 sq.ft.) Exemption: Replacement of bulbs and ballasts only.			256,000	128,000

**Proposed Interior Lighting Power**

A	B	C	D	E
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Lamps/ Fixture	# of Fixtures	Watt.	(C X D)
Restrooms ( Common Space Types-Restrooms 432 sq.ft.): Exempt				
LED 1: L1: METALUX 22FP: Other:	1	4	21	84
LED 2: LIX: METALUX 22FP: Other:	1	2	21	42
Total Proposed Watts =				N/A

**Interior Lighting PASSES**

**Interior Lighting Compliance Statement**  
Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.4.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

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**Sparks Recreation Center Restroom Renovation**  
98 Richards Way  
Sparks, NV 89431

Schedules and Calculations

October 31, 2022  
H+K Project No: 2222

E003

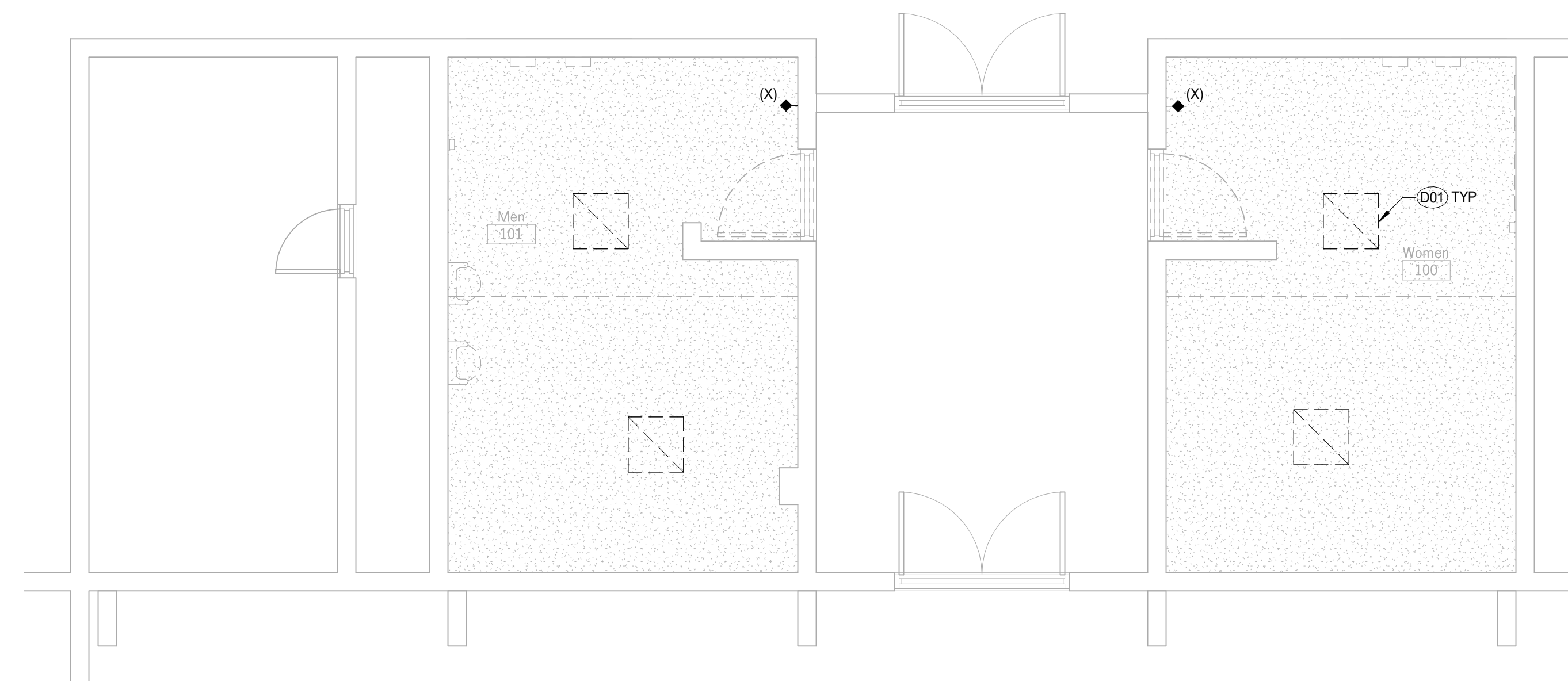


**GENERAL NOTES**

1. THIS DRAWING REPRESENTS THE EXISTING LIGHTING, POWER AND COMMUNICATIONS SYSTEMS WITHIN THE EXISTING BUILDING (AREA TO BE REMODELED). THE CONTRACTOR IS RESPONSIBLE FOR REMOVING, RELOCATING AND REWIRING ALL EQUIPMENT AS INDICATED ON THE DRAWINGS, INCLUDING EQUIPMENT THAT LIES WITHIN WALLS AND CEILINGS TO BE DEMOLISHED OR REMODELED.
2. (X) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT TO BE REMOVED, (R) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT TO BE RELOCATED, (E) AND/OR SOLID HALFTONE LINES INDICATE EXISTING EQUIPMENT TO REMAIN UNLESS NOTED OTHERWISE.
3. SALVAGEABLE ITEMS REMOVED DURING DEMOLITION SHALL BE OFFERED TO OWNER PRIOR TO DISPOSAL OR REMOVAL FROM SITE.
4. EXISTING CIRCUITS AS INDICATED ARE BASED ON CASUAL FIELD OBSERVATION AND INFORMATION PER RECORD DRAWINGS AND SHALL BE FIELD VERIFIED BY ELECTRICAL CONTRACTOR PRIOR TO START OF DEMOLITION WORK.
5. THE CONTRACTOR MAY SALVAGE AND REUSE EXISTING BOXES AND CONDUIT WHERE POSSIBLE. DAMAGED CONDUIT, FITTINGS BOXES, ETC. MAY NOT BE RE-USED. NEW CIRCUITING AS INDICATED ON THE DRAWINGS IS SHOWN FOR INTENT ONLY AND MAY VARY BASED ON ACTUAL FIELD CONDITIONS (NEW CIRCUITING SHALL MATCH EXISTING WHERE POSSIBLE TO UTILIZE EXISTING HOME-RUN CONDUITS, ETC.). KEEP AS-BUILT DRAWINGS CURRENT WITH ANY DEVIATION IN CIRCUITING FROM WHAT IS INDICATED WITHIN THESE PLANS.
6. THE CONTRACTOR SHALL REMOVE FROM THE JOB SITE ALL DISCARDED AND ABANDONED MATERIALS LEFT OVER FROM DEMOLITION AND INSTALLATION. THIS INCLUDES, BUT IS NOT LIMITED TO, CONDUIT, FASTENERS AND BOXES, MATERIALS EMBEDDED IN GRADE AND / OR CONCRETE MAY BE ABANDONED IN PLACE. ALL ABANDONED CONDUIT SHALL BE CAPPED.

**SHEET NOTES**

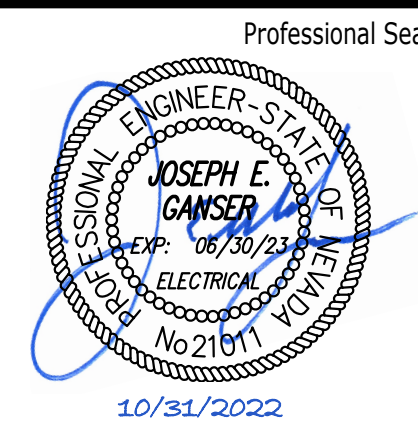
- D01 DEMOLISH LIGHT FIXTURE. MAINTAIN INTEGRITY OF EXISTING CIRCUITING FOR CONNECTION TO NEW FIXTURE. SEE NEW WORK PLAN.



**1 DEMOLITION PLAN**  
 E101 Scale: 1/4" = 1'-0"

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**Sparks Recreation Center  
 Restroom Renovation**

98 Richards Way  
 Sparks, NV 89431

Electrical Demolition  
 Plans

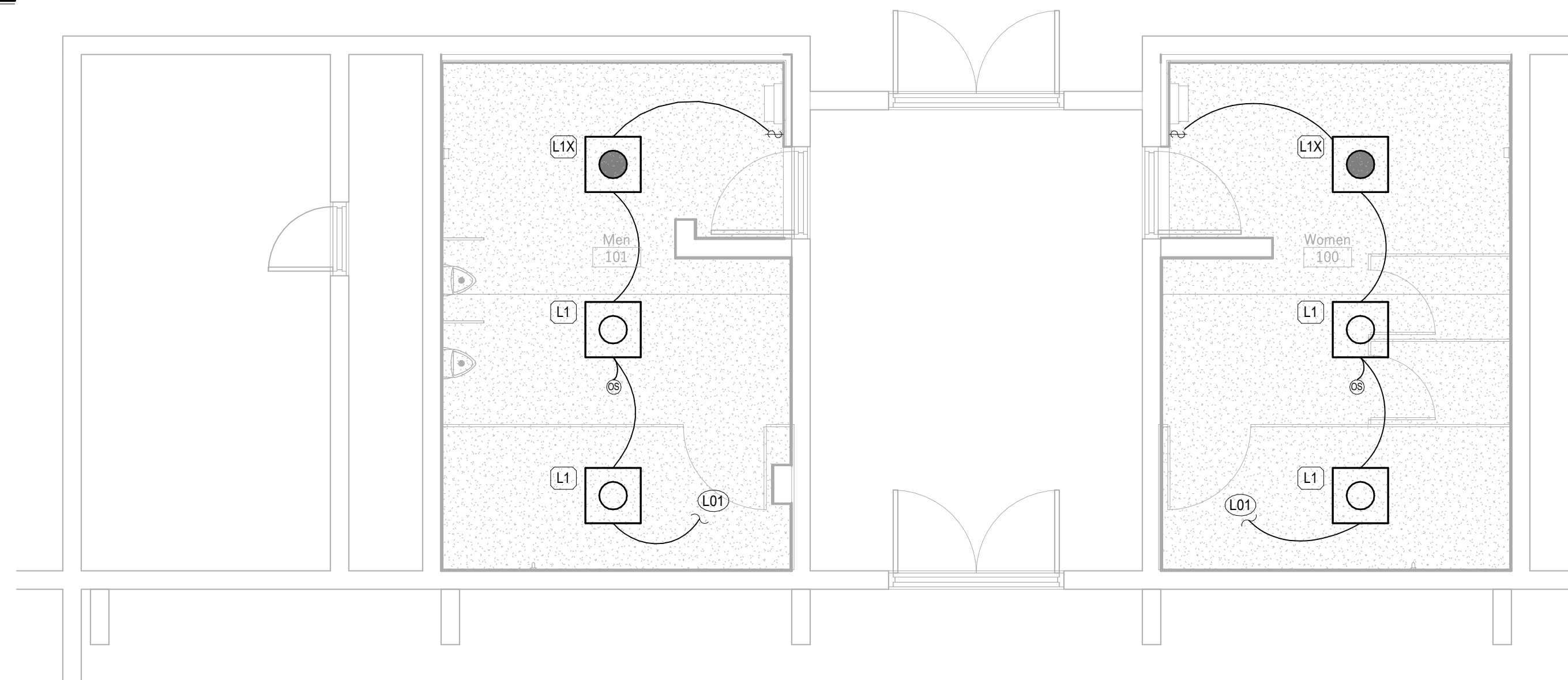
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**E101**



**LIGHTING CONTROL SEQUENCE OF OPERATION**

- MEN & WOMENS RESTROOM**
- OCCUPANCY SENSOR(S) SHALL CONTROL ALL LIGHTS IN AREA
  - 20-MINUTE INACTIVITY TIME-OUT
  - MANUAL ON AUTOMATIC OFF



**1 LIGHTING PLAN**  
E201 Scale: 1/4" = 1'-0"

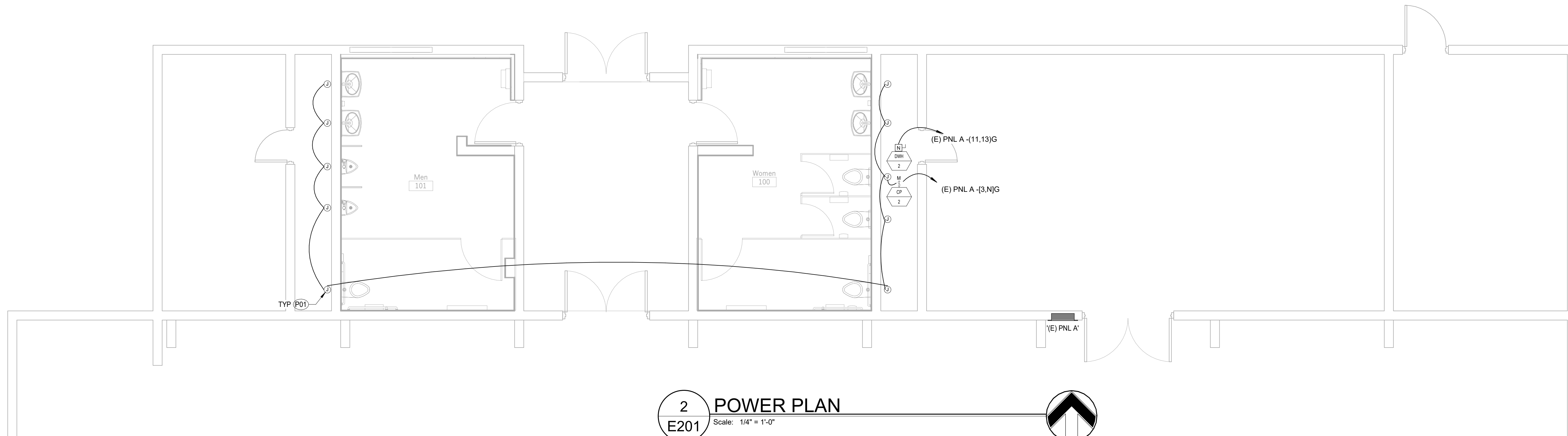
**GENERAL NOTES**

1. (E) AND/OR SOLID HALFTONE LINES INDICATE EXISTING EQUIPMENT, (N) AND/OR SOLID LINES INDICATE NEW EQUIPMENT UNLESS NOTED OTHERWISE.
2. LIGHTING FIXTURES DESIGNATED AS 'EMERGENCY' SHALL BE WIRED TO OPERATE WITH LOCAL SWITCHING UNDER NORMAL POWER CONDITIONS AND SHALL OPERATE VIA EMERGENCY BATTERY PACK OR INVERTER UPON LOSS OF BUILDING UTILITY POWER ONLY, UNLESS NOTED OTHERWISE.
3. ELECTRICAL CONDUITS SHALL BE RUN CONCEALED WHERE BUILDING CONSTRUCTION ALLOWS. ANY EXPOSED CONDUIT SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. ANY EXPOSED CONDUIT, FITTING, SUPPORTS, ETC SHALL BE PAINTED TO MATCH THE SURFACE ON WHICH THEY ARE INSTALLED.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS, SECTIONS, ELEVATIONS, ETC. FOR EXACT LOCATION OF LIGHTING FIXTURES.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING FINAL FIXTURE LOCATIONS, ABOVE-CEILING HOUSING CLEARANCES, ETC. WITH MECHANICAL, PLUMBING, SPRINKLER CONTRACTOR AND OTHER TRADES PRIOR TO ROUGH-IN.
6. THE CONTRACTOR SHALL OBTAIN ALL WIRING DIAGRAMS ASSOCIATED WITH THE MECHANICAL EQUIPMENT CONTROLS FROM THE MECHANICAL/CONTROLS CONTRACTOR. CONTROL WIRING SHALL BE PROVIDED AND INSTALLED BY CONTROLS CONTRACTOR. ANY CONDUIT REQUIRED FOR CONTROL WIRING SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR AND SHALL BE COMPLETED UNDER THE SUPERVISION OF THE MECHANICAL/CONTROLS CONTRACTOR.
7. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL UNIT MODEL NUMBERS AND SPECIFIC ELECTRICAL REQUIREMENTS, OPTIONS AND ACCESSORIES.
8. INFORMATION ON ARCHITECTURAL AND MECHANICAL DRAWINGS SUPERSEDE INFORMATION SHOWN ON ELECTRICAL DRAWINGS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.
9. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING ELECTRICAL REQUIREMENTS FOR FINAL MECHANICAL EQUIPMENT INSTALLED. SHOULD THERE BE ANY DISCREPANCY BETWEEN ACTUAL EQUIPMENT INSTALLED AND ELECTRICAL OR MECHANICAL DRAWINGS, CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY FOR CLARIFICATION AND FURTHER DIRECTION.
10. LOCATE ALL DISCONNECTS, STARTERS AND DRIVES WHERE ACCESSIBLE. PROVIDE ACCESS AND CLEARANCE AS REQUIRED PER NEC. PROVIDE ACCESS HATCH IF LOCATED ABOVE HARD LID CEILING.
11. DISCONNECT SWITCHES, STARTERS OR DRIVES PROVIDED BY MECHANICAL AND SHIPPED LOOSE ARE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO INSTALL.

**### SHEET NOTES**

- L01 CONNECT TO EXISTING CIRCUIT MADE AVAILABLE DURING DEMOLITION.
- P01 PLUMBING FIXTURE ELECTRICAL TRANSFORMER. SEE PLUMBING DRAWINGS FOR ADDITIONAL DETAILS. COORDINATE FINAL LOCATION WITH PLUMBING AND ARCHITECTURE AS REQUIRED.

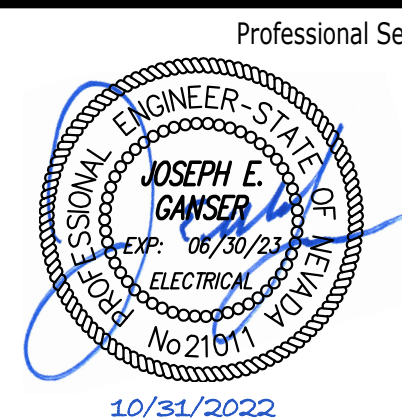
Mechanical Equipment Schedule							
EQUIPMENT ID	EQUIPMENT DESCRIPTION	VOLTAGE	POLES	WATTAGE	WIRE SIZE (#12 UNO)	DISCONNECT	NEMA RATING
CP-2	CIRCULATION PUMP	120 V	1	86 VA	-	MOTOR RATED SWITCH	1 (E) PNL A - 3
DWH-2	WATER HEATER	240 V	2	3000 VA	-	30A NON-FUSED DISCONNECT	1 (E) PNL A - 11,13



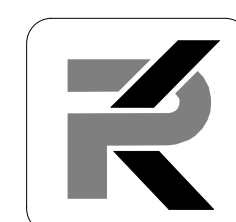
**2 POWER PLAN**  
E201 Scale: 1/4" = 1'-0"

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New Electrical Plans

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H+K Project No: 2222

**E201**

