

# Rock Park Restroom and Storage Building

1515 S. Rock Blvd.  
Sparks, NV 89502



Sparks Parks and Recreation  
431 Prater Way  
Sparks, NV 89432



Bid # 15/16-005 PWP # WA-2015-255

July 27, 2015

Permit/Bid Set

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

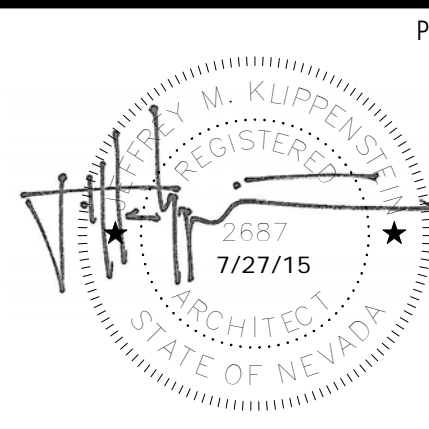
Neil C. Knutz, P.E.  
Deputy City Manager

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

Tracy Domingues  
Director, Parks and Recreation

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**Rock Park  
Restroom and Storage Building**

1515 S. Rock Blvd.  
Sparks, NV 89502

Title Sheet

July 27, 2015  
H+K Project No: 1504

**G001**





| Abbreviations  |   |  |  |
|--|---|--|--|
| &<br>@<br>(e)<br>⊥<br>#  | And<br>Alt.<br>Existing<br>Perpendicular<br>Pound or Number   | <b>E</b><br>Ea.<br>Etc.<br>E.W.C.<br>Elec.<br>Elev.<br>Emer.<br>Encl.<br>Eq.<br>Equip.<br>Exh.<br>Exp.<br>E.J.<br>Ext.                               | Each<br>Etcetera<br>Electric Water Cooler<br>Electrical<br>Elevation<br>Emergency<br>Enclosure<br>Equal<br>Equipment<br>Exhaust<br>Expansion<br>Expansion Joint<br>Exterior  |
| <b>A</b><br>Adj.<br>Aggr.<br>Alt.<br>Alum.<br>Approx.<br>Arch.<br>A.C.   | Adjustable<br>Aggregate<br>Alternate<br>Aluminum<br>Approximately<br>Architectural/Architect<br>Asphalt Concrete  | <b>F</b><br>F.O.<br>Fin.<br>F.G.<br>F.E.<br>F.E.C.<br>Fprf.<br>Fxt.<br>Flash.<br>Flr.<br>F.D.<br>F.L.<br>Fl.<br>Ftg.<br>Fdn.<br>FBO<br>Furr.<br>Fut. | Face of<br>Finish<br>Finish Grade<br>Fire Extinguisher<br>Fire Extinguisher Cabinet<br>Fireproofing<br>Fixture<br>Flashing<br>Floor<br>Floor Drain<br>Flow Line<br>Foot<br>Footing<br>Foundation<br>Furnished by Others<br>Furring<br>Future |
| <b>B</b><br>Bm.<br>Blk.<br>Blkg.<br>Bd.<br>B.O.<br>Bldg.<br>B.U.R.   | Beam<br>Block<br>Blocking<br>Board<br>Bottom of<br>Building<br>Built up Roofing   | <b>G</b><br>Galv.<br>G.I.<br>Ga.<br>Gen.<br>Gl.<br>GLB<br>Gyp.   | Galvanized<br>Galvanized Iron<br>Gage<br>General<br>Glass<br>Glue-Laminated Beam<br>Gypsum   |
| <b>C</b><br>C.I.<br>C.B.<br>Clq.<br>Cir.<br>C.L.<br>Cer.<br>C.O.<br>C.W.<br>Col.<br>Conc.<br>Conn.<br>Const.<br>C.J.<br>Contn.<br>Contr.<br>Cu. Ft.      | Cast Iron<br>Catch Basin<br>Ceiling<br>Center<br>Center Line<br>Ceramic<br>Cleanout<br>Cold Water<br>Column<br>Concrete<br>Connection<br>Construction<br>Construction Joint<br>Continuous<br>Contractor<br>Cubic Foot | <b>H</b><br>Ht.<br>H.C.<br>H.M.<br>Horiz.<br>H.B.<br>H.W.<br>Hr.   | Height<br>Hollow Core<br>Hollow Metal<br>Horizontal<br>Hose Bibb<br>Hot Water<br>Hour  |
| <b>D</b><br>D.G.<br>Dept.<br>Det.<br>Dia.<br>Diff.<br>Dim.<br>Dbl.<br>DN<br>D.S.<br>Dwg.<br>D.F.   | Decomposed Granite<br>Department<br>Detail<br>Diameter<br>Diffuser<br>Dimension<br>Double<br>Down<br>Downspout<br>Drawing<br>Drinking Fountain  | <b>I</b><br>In.<br>I.D.<br>Insul.<br>Int.  | Inch(es)<br>Inside Diameter<br>Insulation<br>Interior  |
| <b>J</b><br>Jt.  | Joint   | <b>L</b><br>Lab<br>Lav.<br>Lt.   | Laboratory<br>Lavatory<br>Light  |
| <b>S</b><br>Sched.<br>Sect.<br>Sht.<br>Sht.<br>Sim.<br>S.C.<br>Spec.<br>Sq.<br>SF<br>St.<br>St. Stl.<br>Std.<br>Stl.<br>Stg.<br>Struct.<br>Susp.<br>Sym. | Schedule<br>Section<br>Sheet<br>Sheet<br>Similar<br>Solid Core<br>Specification<br>Square<br>Square foot<br>Stainless Steel<br>Standard<br>Steel<br>Storage<br>Structural<br>Suspended<br>Symmetrical                 | <b>M</b><br>Mfr.<br>M.O.<br>Max.<br>Mech.<br>Membr.<br>Met.<br>Min.<br>Misc.<br>MPH<br>Mtd.  | Manufacturer<br>Masonry Opening<br>Maximum<br>Mechanical<br>Membrane<br>Metal<br>Minimum<br>Miscellaneous<br>Miles per hour<br>Mounted   |
| <b>T</b><br>Tel.<br>T.V.<br>T.&G.<br>T.C.<br>T.O.  | Telephone<br>Television<br>Tongue and Groove<br>Top of Curb (or Concrete)<br>Top of   | <b>N</b><br>Nom.<br>N.I.C.<br>N.T.S.<br>No.  | Nominal<br>Not in Contract<br>Not to Scale<br>Number   |
| <b>U</b><br>U.N.O.   | Unless Noted Otherwise  | <b>O</b><br>O.C.<br>O.D.<br>O.H.   | On Center<br>Outside Diameter<br>Opposite Hand   |
| <b>V</b><br>Vert.<br>V.C.T.  | Vertical<br>Vinyl Composition Tile  | <b>P</b><br>Pr.<br>P. Lam.<br>Pl.<br>Plywd.<br>Pl.<br>Ply.<br>P.L.<br>Pfab.<br>Prop.<br>PSF<br>PSI   | Pair<br>Plastic Laminate<br>Plate<br>Plywood<br>Point<br>Plate<br>Prefabricated<br>Property<br>Pounds per square foot<br>Pounds per square inch  |
| <b>W</b><br>W.C.<br>Wt.<br>W.F.<br>Wdw.<br>W/<br>W/O<br>Wd.<br>W.J.  | Water Closet<br>Weight<br>Wide Flange<br>Window<br>With<br>Without<br>Wood<br>Weakened Plane Joint  | <b>R</b><br>Rad.<br>Ref.<br>Reinf.<br>Req.<br>R.A.<br>Rev.<br>R.O.W.<br>R.D.<br>Rm.<br>R.O.  | Radius<br>Reference<br>Reinforced<br>Required<br>Return Air<br>Revision<br>Right of Way<br>Roof Drain<br>Room<br>Rough Opening   |
| <b>Y</b><br>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 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  
431 Prater Way  
Sparks, NV 89431  
(775) 353-4083  
(775) 353-1635 (fax)  
Contact: Brian D. Cason, S.E., P.E.  
Email: bcason@cityofsparks.us

**Structural Engineer:**  
Hyttinen Engineering  
5458 Longley Lane, Suite B  
Reno, NV 89511  
(775) 826-3019  
(775) 826-3076 (fax)  
Contact: Roger Hyttinen, SE  
Email: RHyttinen@hyttinenengineering.com

**Mechanical/Plumbing Engineer:**  
Ainsworth Associates Mechanical Engineer  
1420 Holcomb Avenue, Suite 201  
Reno, NV 89502  
(775) 329-9100  
(775) 332-6642 (fax)  
Contact: Roger Gravelle  
Email: rgravelle@aa-me.com

**Electrical Engineer:**  
JP Engineering  
10597 Double R Blvd. #1  
Reno, NV 89521  
(775) 852-2337  
(775) 859-2352 (fax)  
Contact: James Solaro, PE  
Email: James@jpengrv.com

**Architect:**  
H+K Architects  
5485 Reno Corporate Drive, Suite 100  
Reno, NV 89511-2262  
(775) 870-4877  
(775) 332-6642 (fax)  
Contact: Jeff Klippenstein, AIA  
Email: jeff@hkarchitects.com

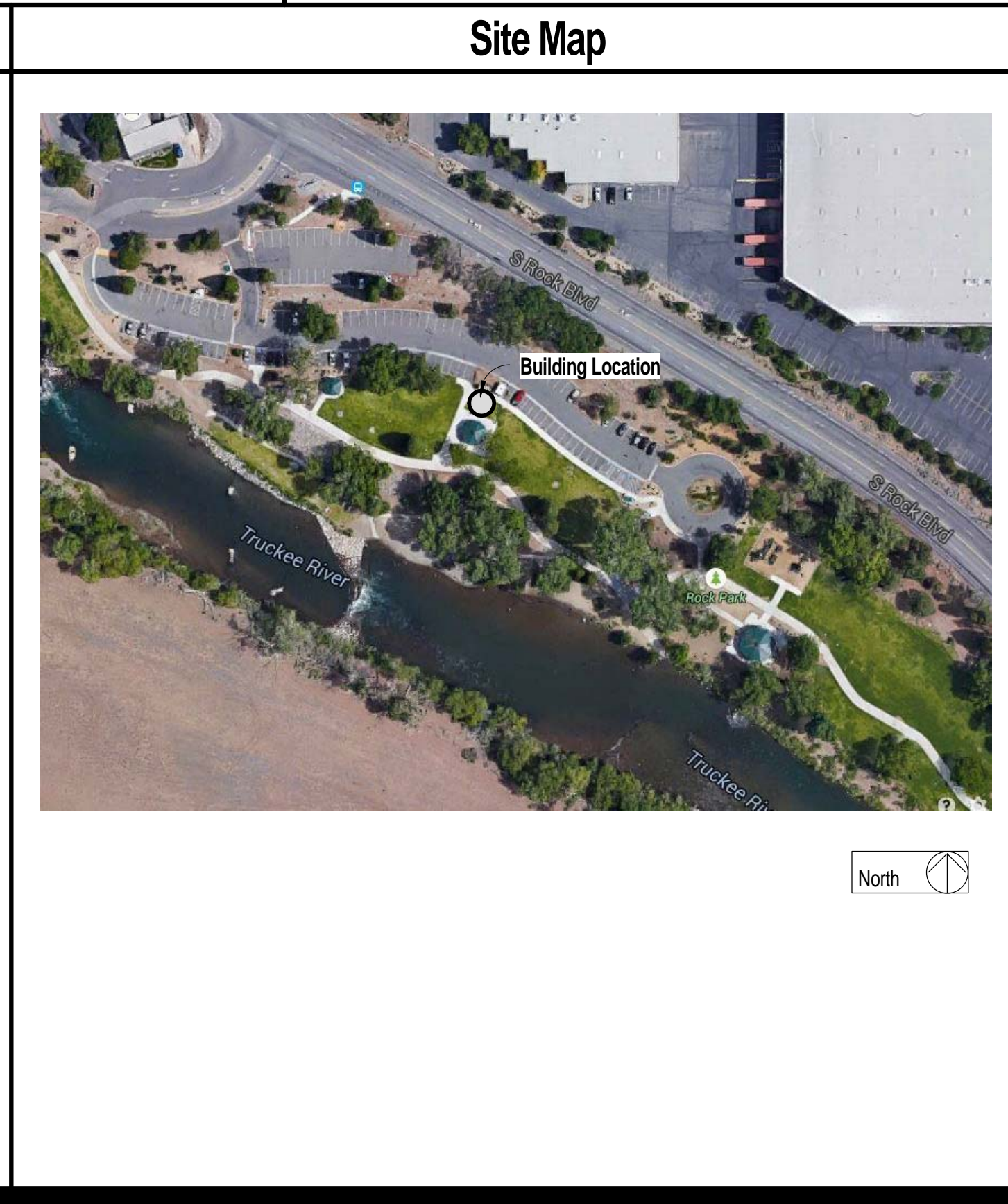
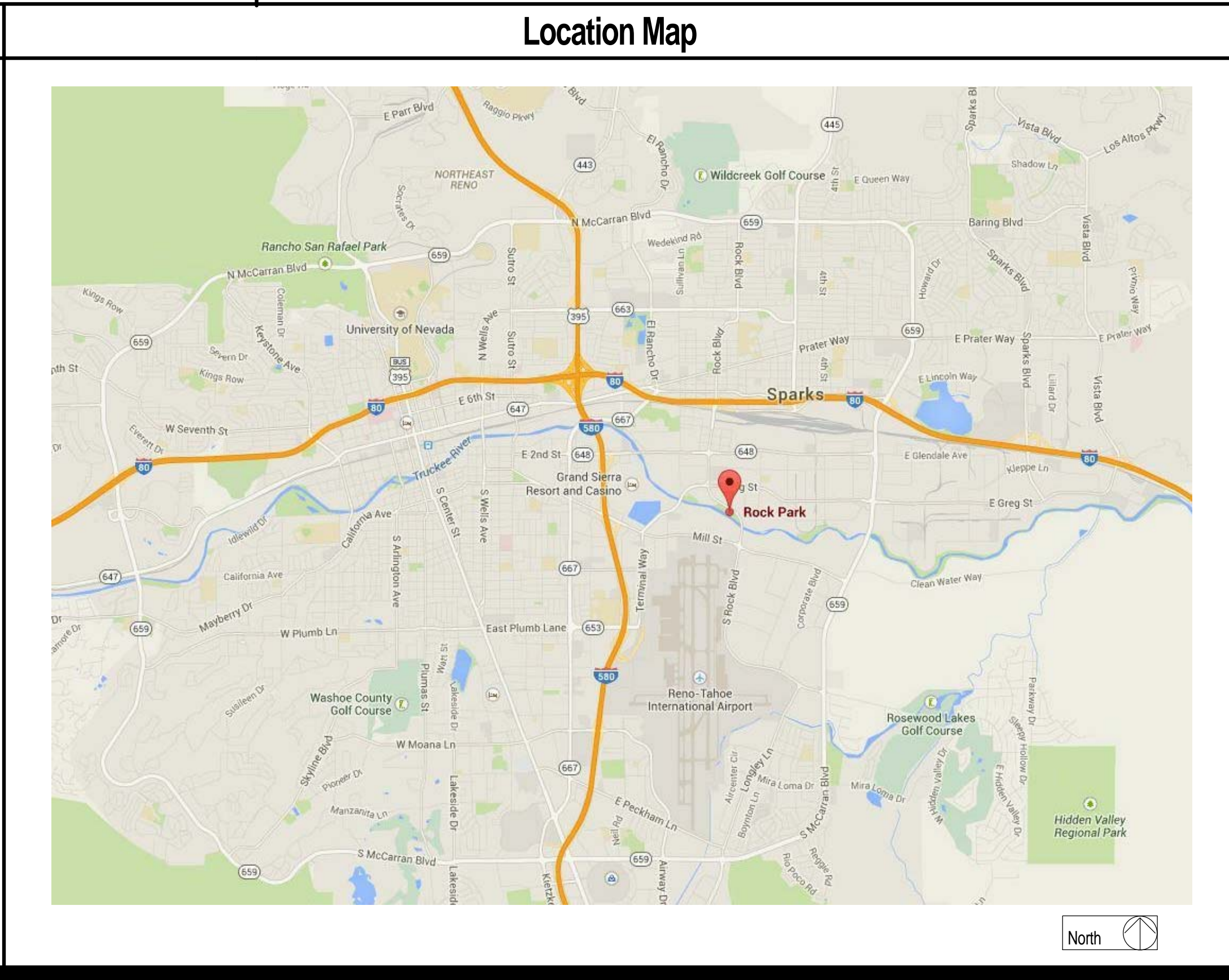
**Civil:**  
Odyssey Engineering Incorporated  
895 Roberta Lane, Suite 104  
Reno, NV 89431  
(775) 359-3303  
(775) 359-3329 (fax)  
Contact: Ryan T. Sims, P.E.  
Email: ryan@odyssevereno.com

### Sheet Index

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### Symbols

|  |                  |  |                  |
|--|------------------|--|------------------|
|  | Drawing Number   |  | Building Section |
|  | North Arrow      |  | Wall Section     |
|  | Elevation        |  | Detail           |
|  | Door Number      |  | Detail Section   |
|  | Window Type      |  | Spot Elevation   |
|  | Grid Line        |  | Elevation        |
|  | Room Name/Number |  |                  |
|  | Wall Type Symbol |  |                  |



### Design Criteria

|   |   |
|---|---|
| Applicable Codes:                           | 2012 International Building Codes (IBC)   |
| Building Code:                              | 2012 Uniform Mechanical Code (UMC)  |
| Mechanical Code:                            | 2012 Uniform Plumbing Code (UPC)  |
| Plumbing Code:                              | 2011 National Electrical Code (NEC)   |
| Electrical Code:                            | 2012 International Fire Code, Vol. 1 (IFC)  |
| Fire Code:                                  | State Fire Marshal, Nevada Department of Public Safety  |
| Regulations                                 | 2010 Americans with Disabilities Act, Accessibility Guidelines and ICC/ANSI 117.1-2010 International Energy Conservation Code |
| Accessibility Codes:                        |   |
| Energy Code:                                |   |
| Occupancy Group:                            | U   |
| Type of Construction:                       | Type V-B  |
| Floor Area:                                 |   |
| First Floor:                                | 768 Sq.Ft.  |
| Total:                                      | 768 Sq.Ft.  |
| Allowable Area:                             | 1 story - 9,000 Sq. Ft.   |
| Required Area and/or Occupancy Separations: | None  |
| Fire Sprinkler Requirements:                | No  |
| Alarm Systems:                              | None  |
| No. Stories:                                | 1   |
| Height:                                     | 15'-11"   |
| LIVE LOADING                                |   |
| Roof:                                       | 25 psf  |
| Floor - Normal:                             | 30 psf  |
| Wind Seismic:                               | 130 mph, (Risk Category II) Exposure C Site Class D   |
| DESIGN STRESSES                             |   |
| Soil Bearing:                               | 1500 psf, assumed   |

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|            |      |          |
|------------|------|----------|
| Consultant | Date | Revision |
|            |      |          |

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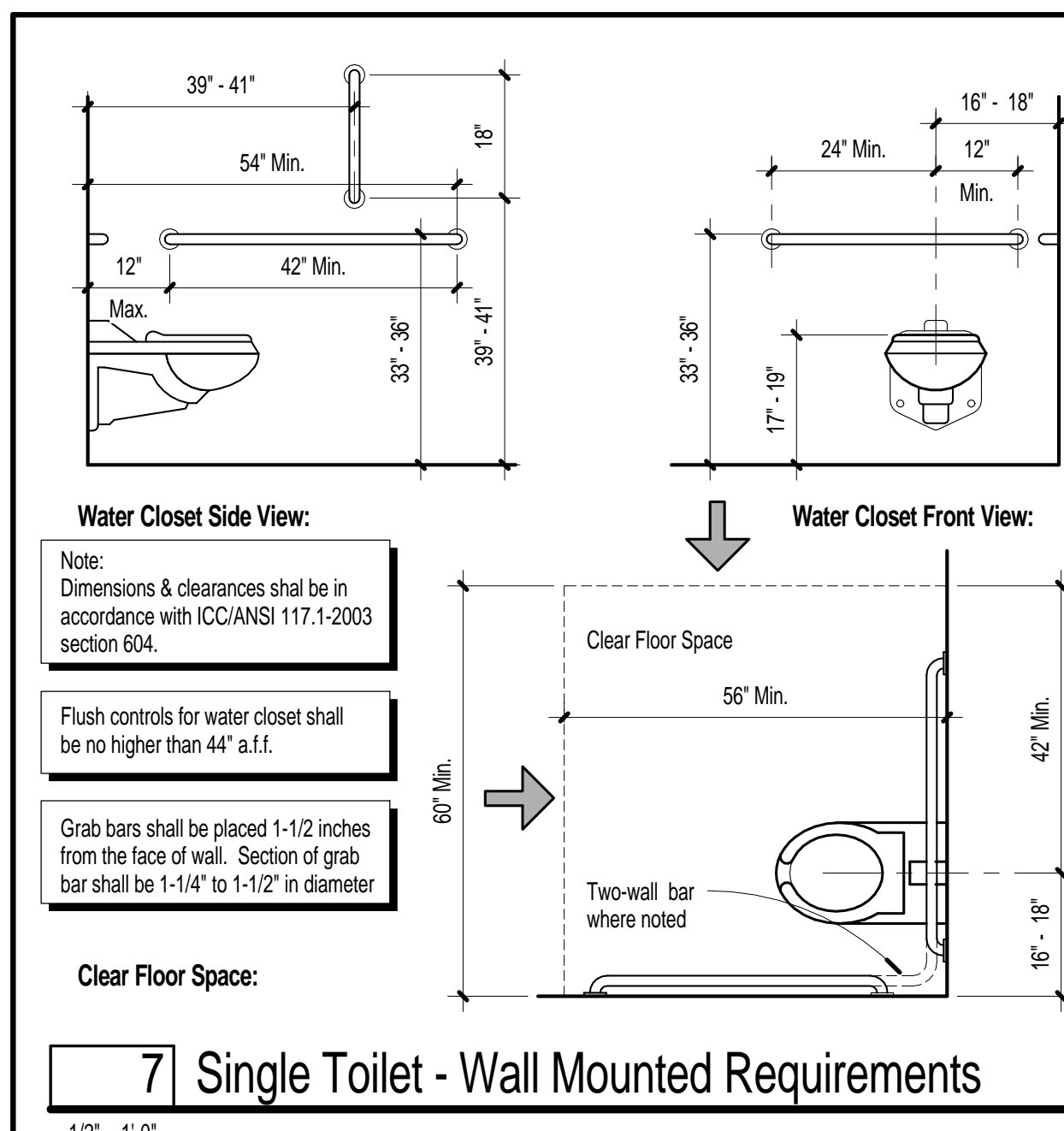
Project Data

July 27, 2015  
H+K Project No: 1504

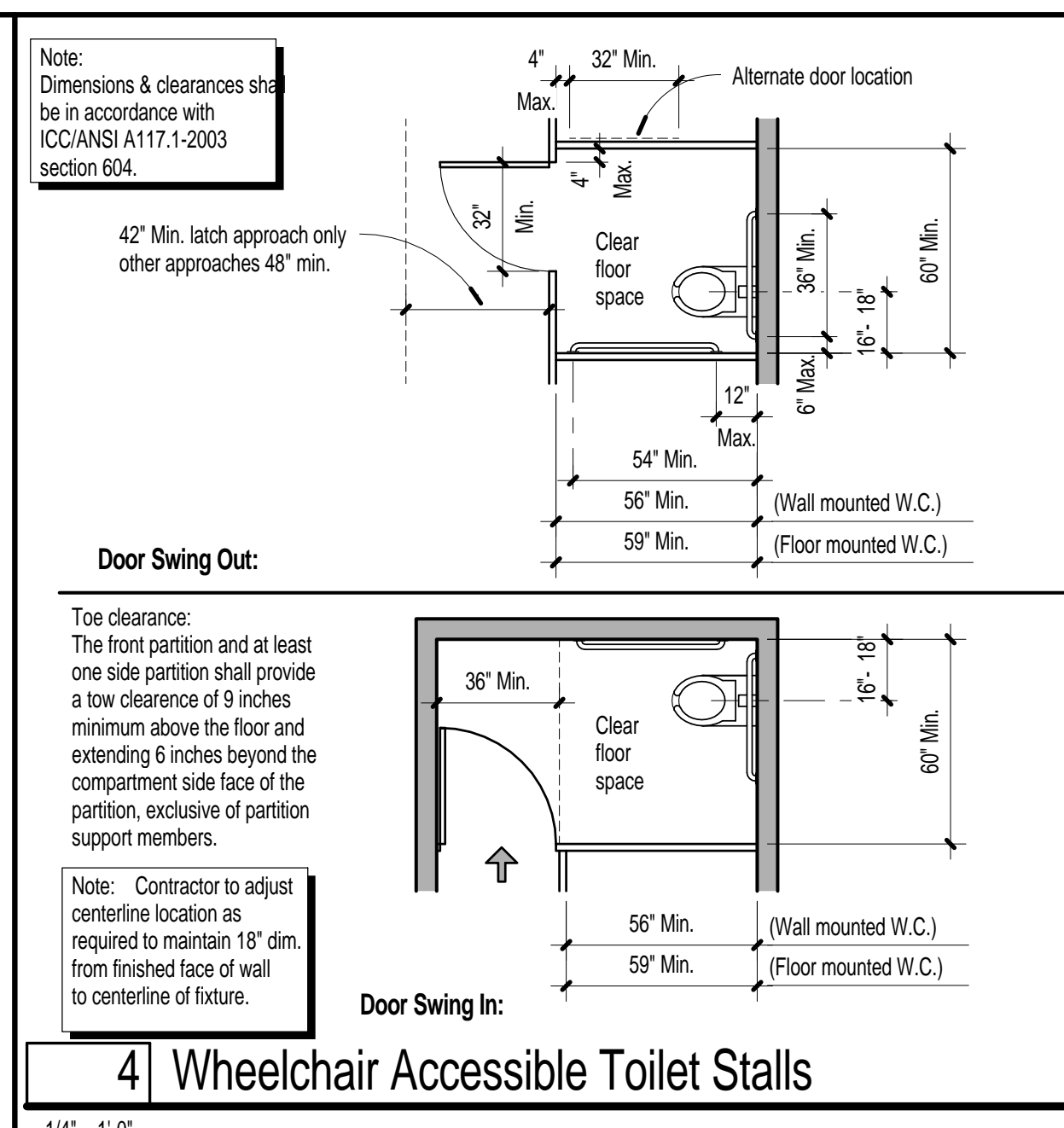
**G101**

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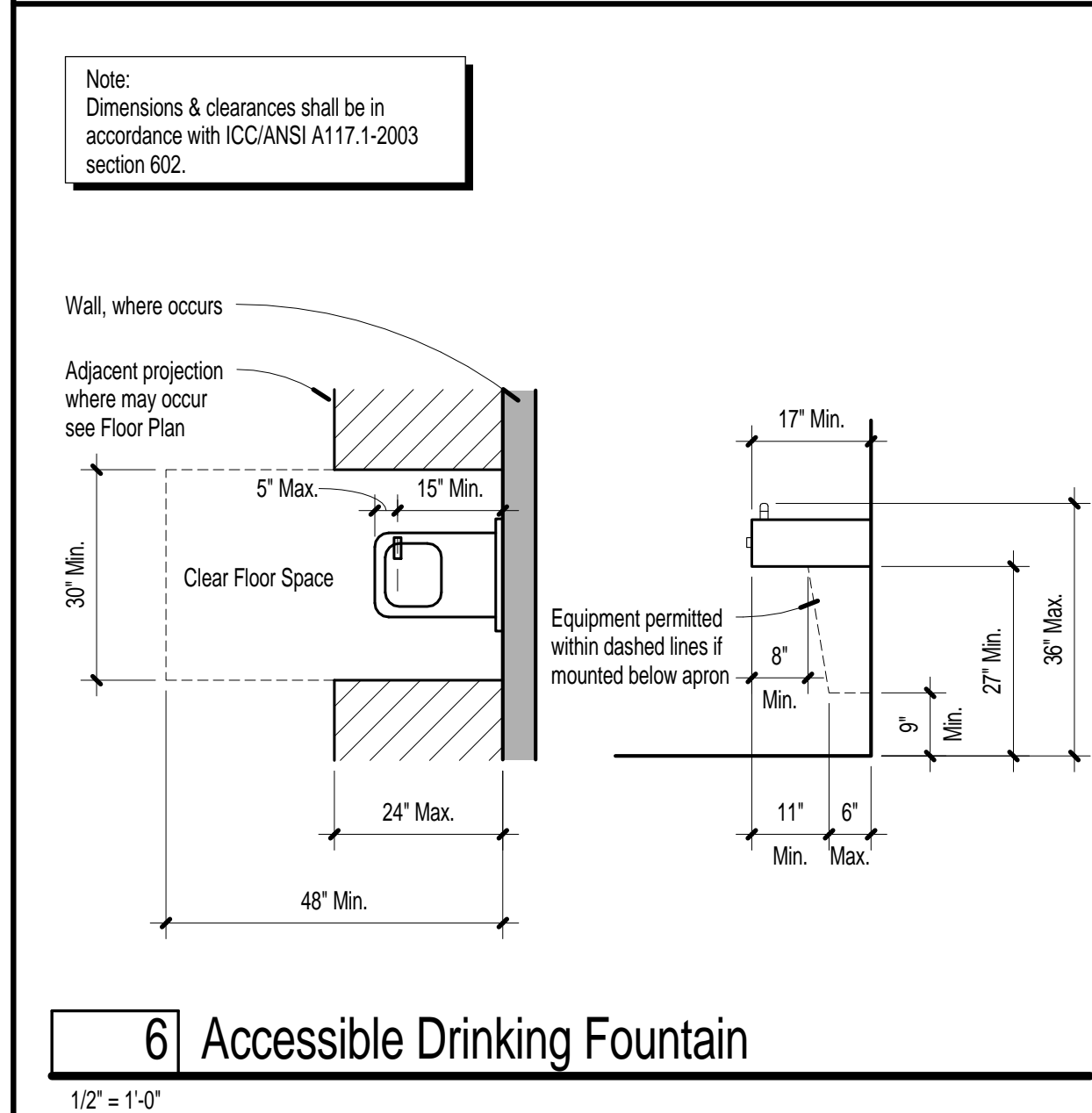




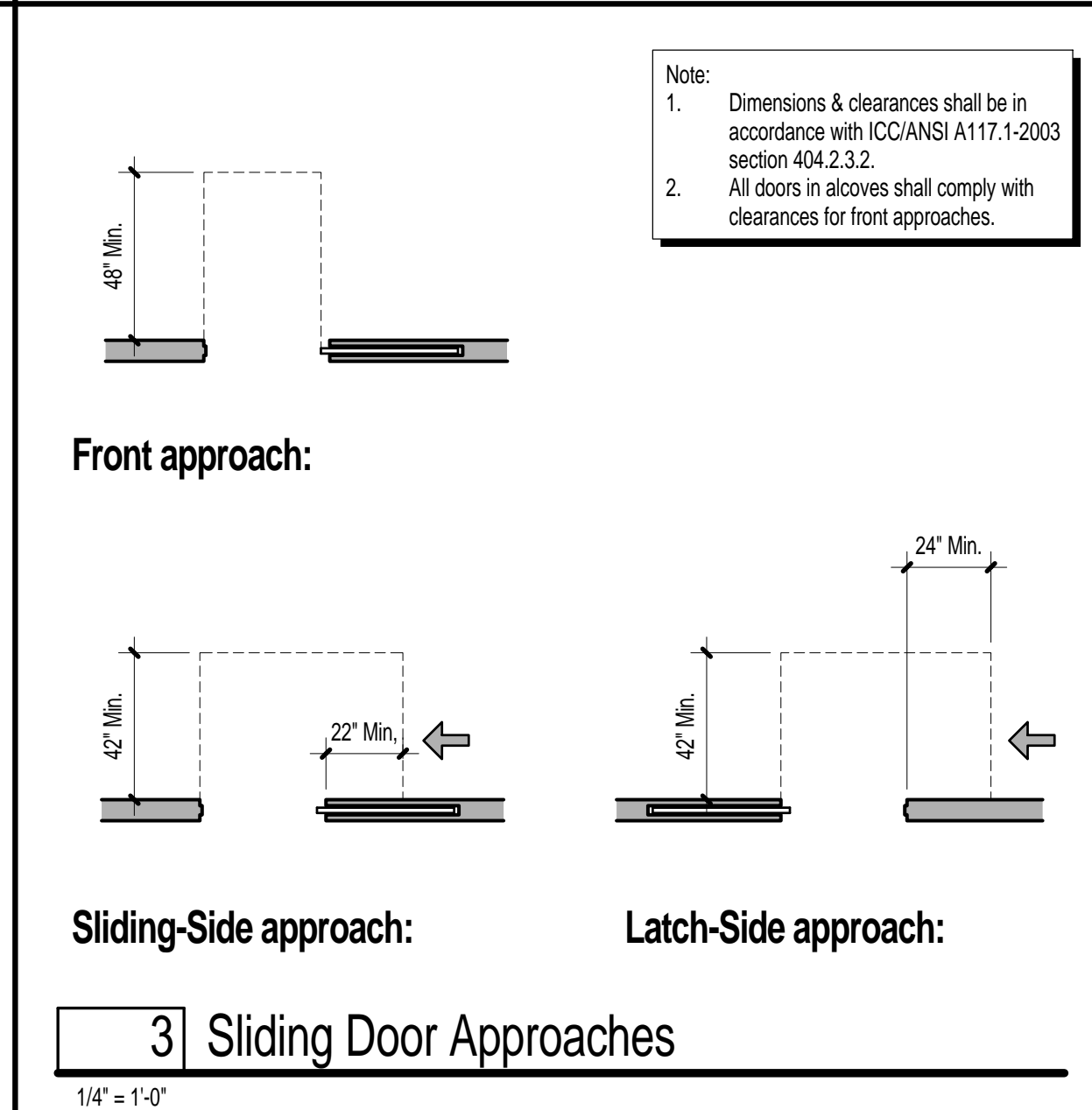
**7 Single Toilet - Wall Mounted Requirements**  
1/2" = 1'-0"



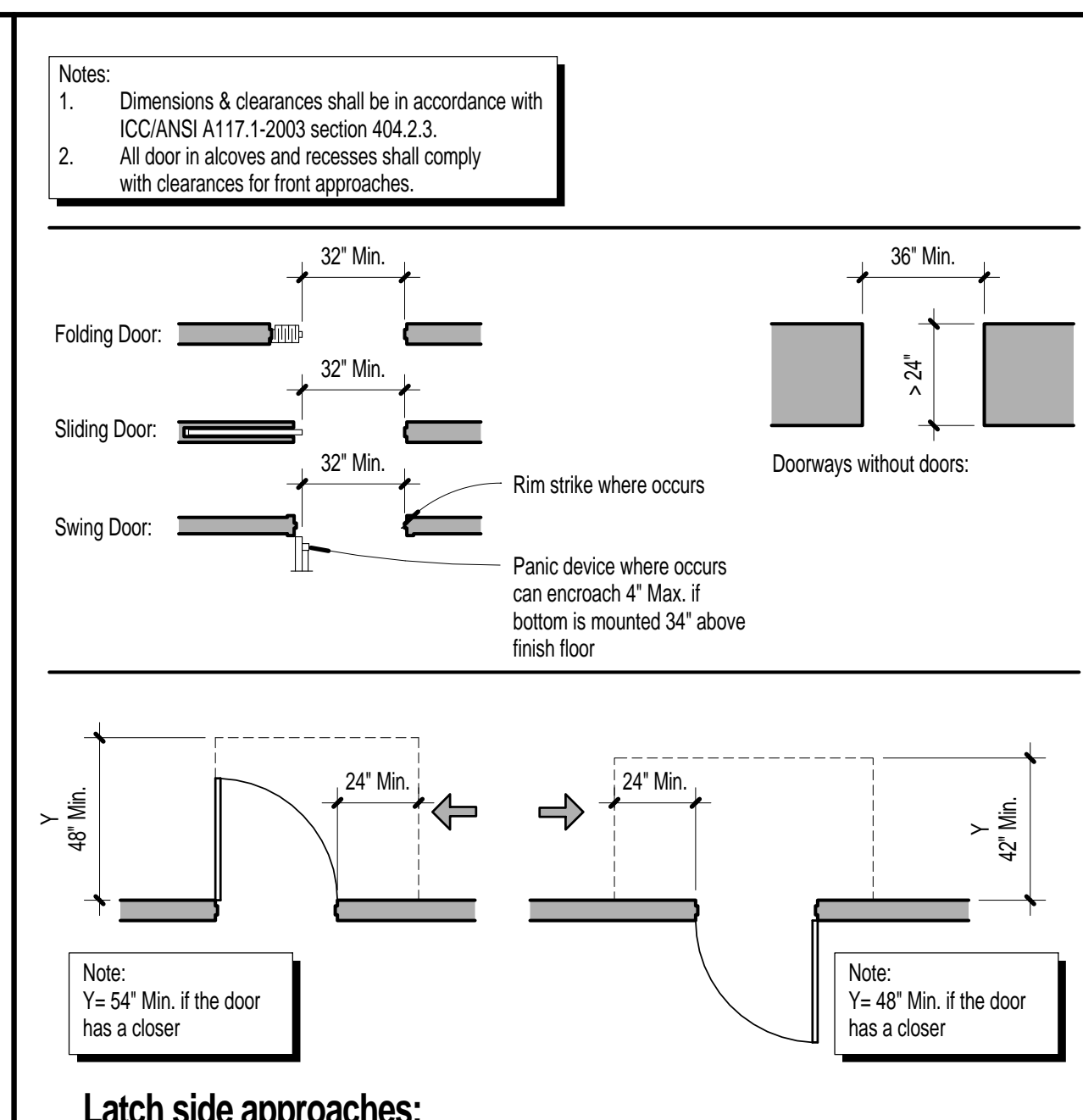
**4 Wheelchair Accessible Toilet Stalls**  
1/4" = 1'-0"



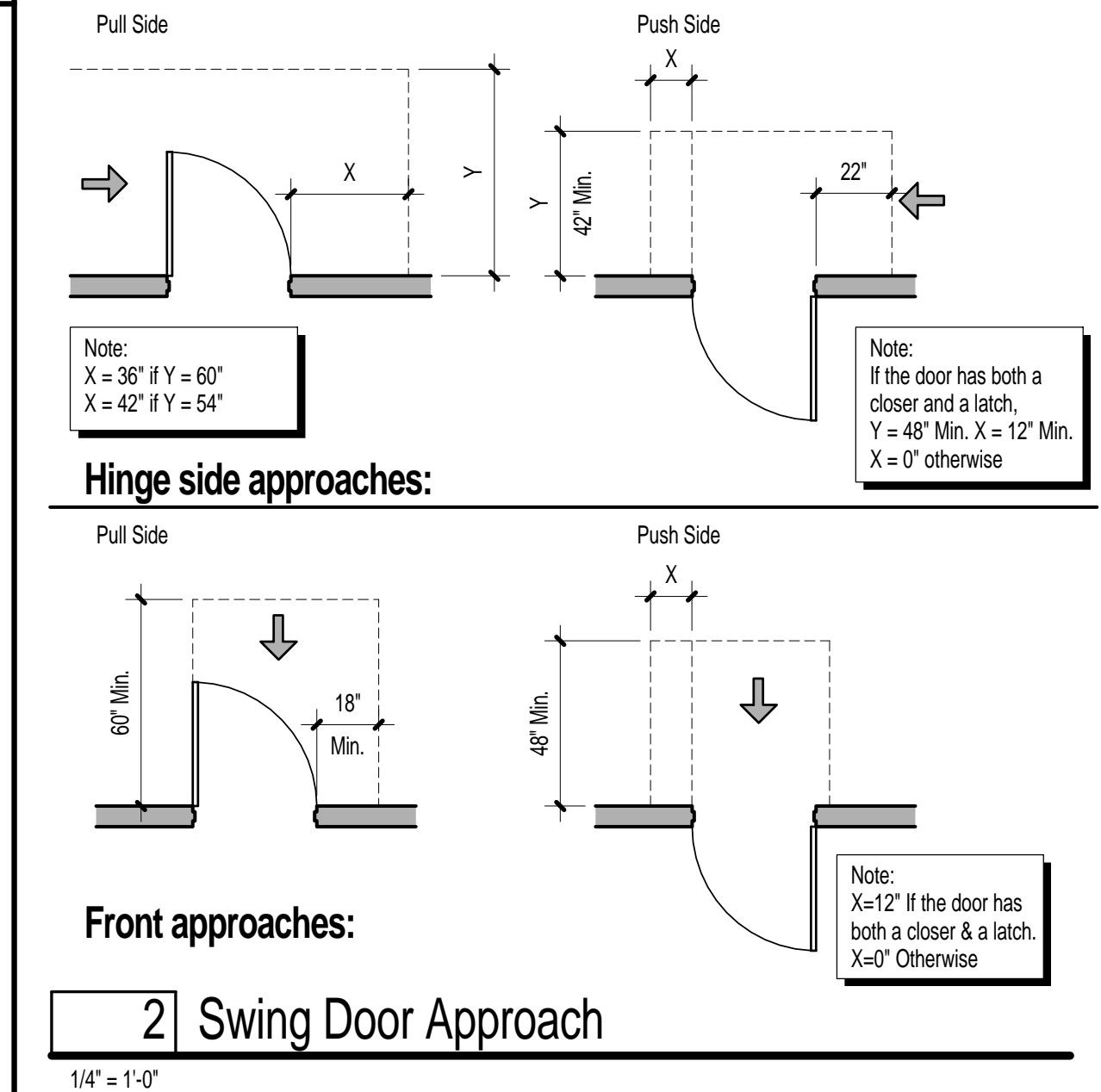
**6 Accessible Drinking Fountain**  
1/2" = 1'-0"



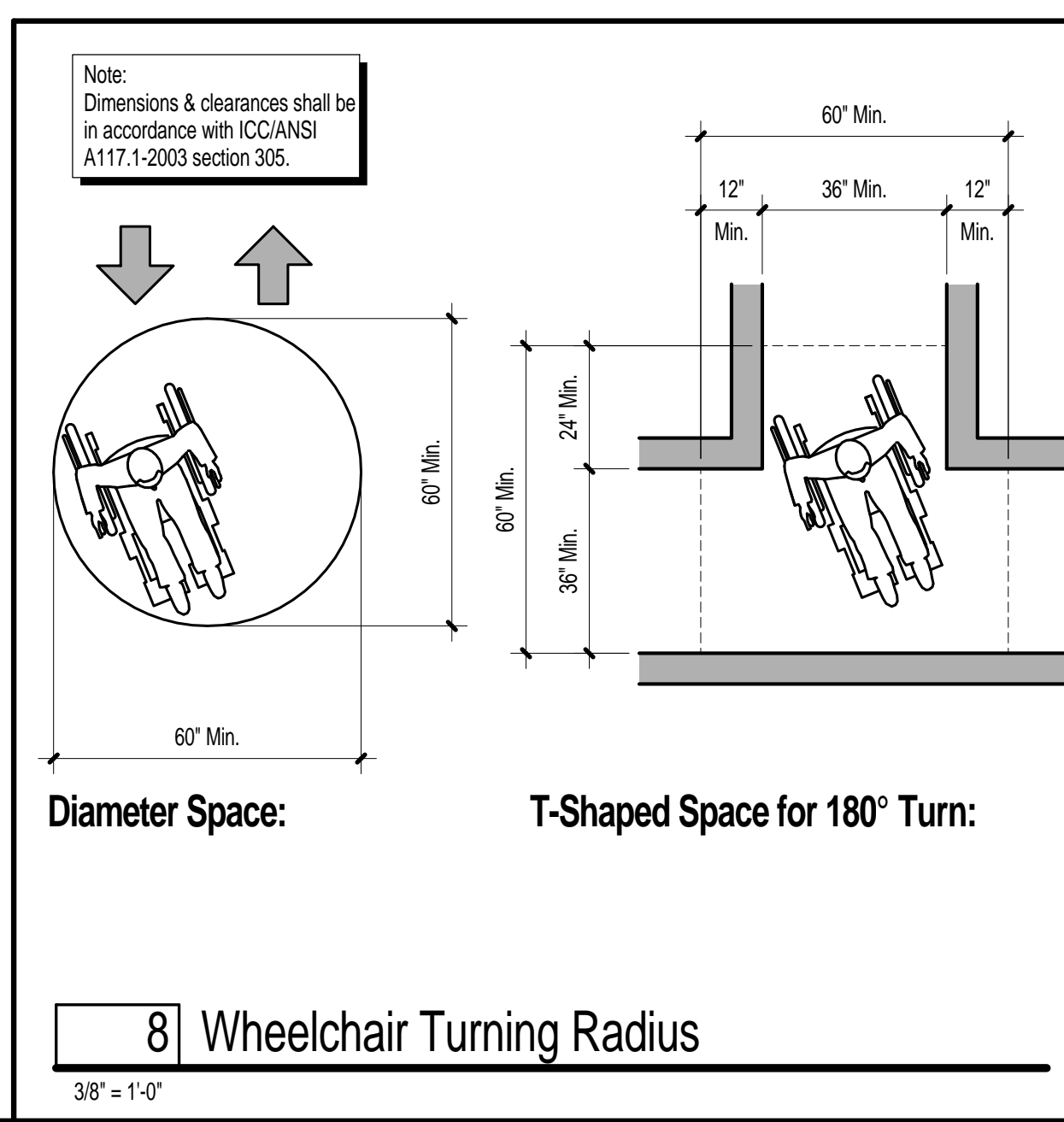
**3 Sliding Door Approaches**  
1/4" = 1'-0"



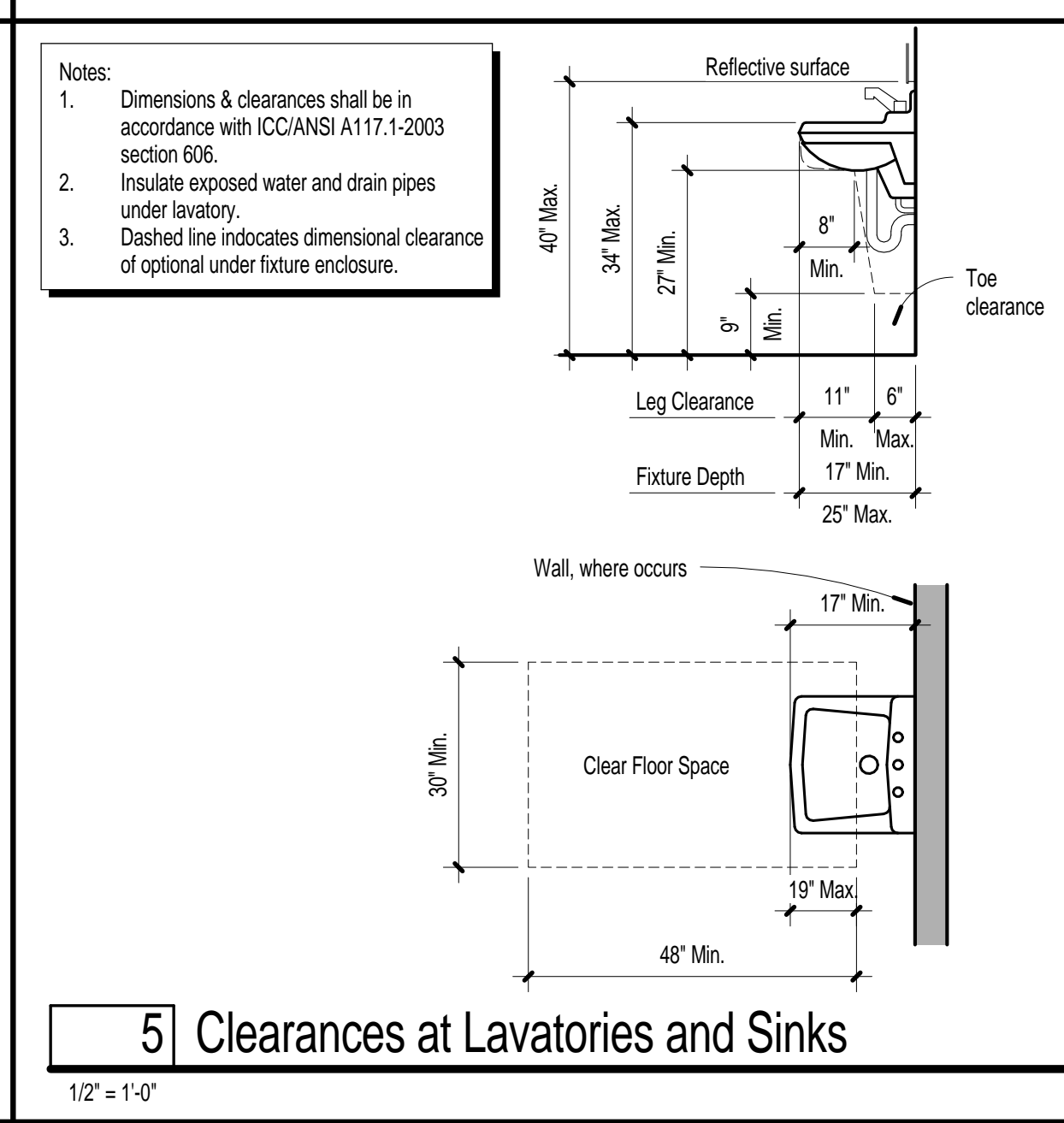
**2 Swing Door Approach**  
1/4" = 1'-0"



**1 Typical Accessible Toilet Accessory Mounting Heights**  
1/2" = 1'-0"



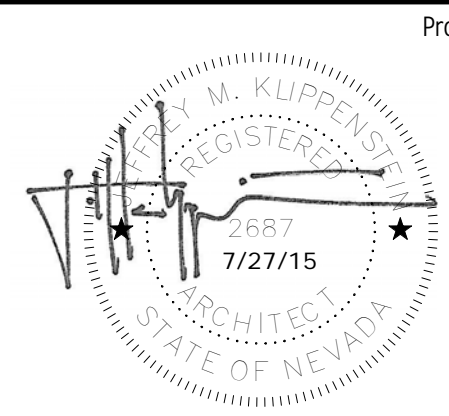
**8 Wheelchair Turning Radius**  
3/8" = 1'-0"



**5 Clearances at Lavatories and Sinks**  
1/2" = 1'-0"

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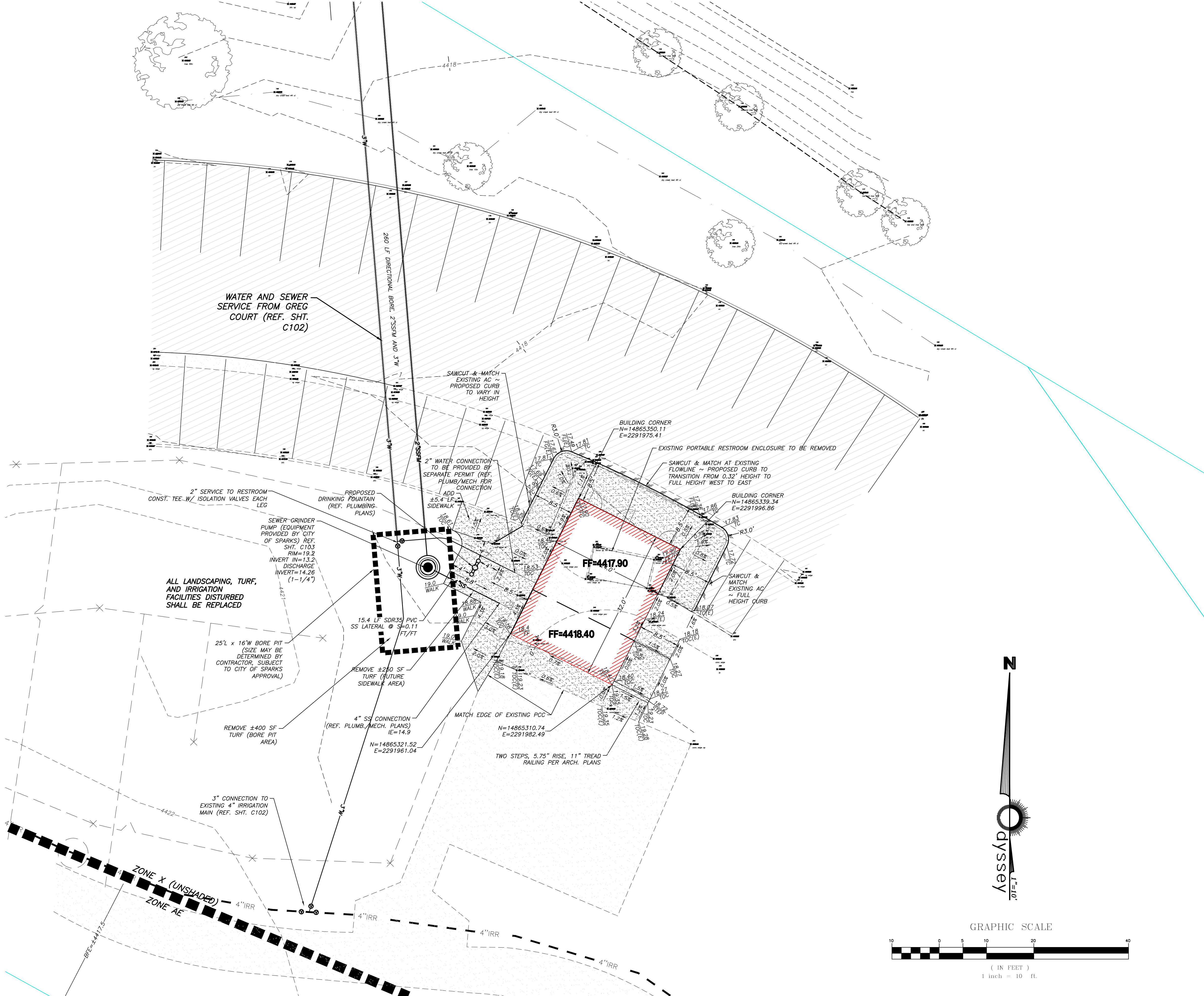
Accessibility Diagrams

July 27, 2015  
H+K Project No: 1504

**G102**







**SPECIFICATIONS**

ALL CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATION, THE LATEST STANDARD DETAILS, FOR PUBLIC WORKS CONSTRUCTION (2007 EDITION AND ANY APPURTENANT SUPPLEMENT) SPONSORED AND DISTRIBUTED BY RENO, SPARKS AND WASHOE COUNTY.

**BASIS OF BEARINGS**

NAD83 STATE OF NEVADA STATE PLANE - WEST ZONE

**BASIS OF ELEVATIONS**

NAVD88 ~ ADD 4400 FEET TO SPOT ELEVATIONS TO OBTAIN SAID DATUM.

**FLOOD ZONE INFORMATION:**

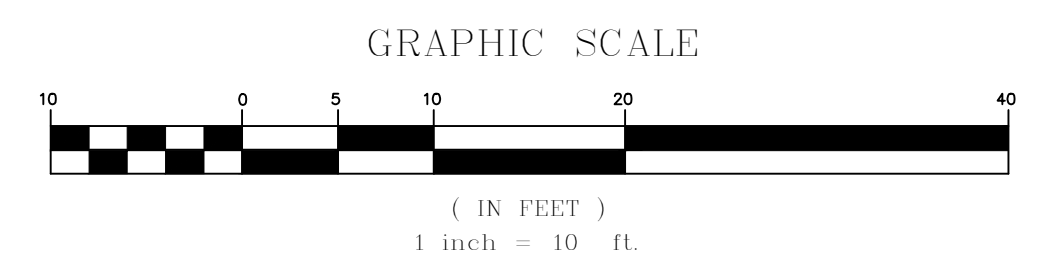
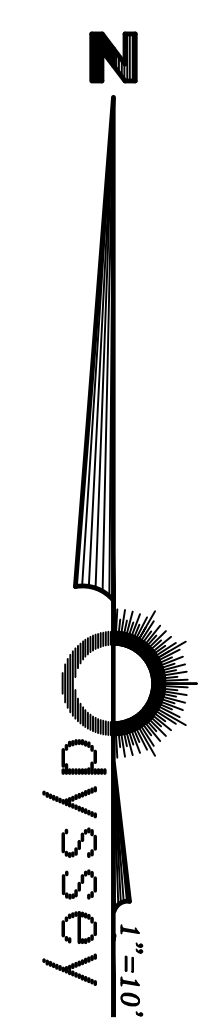
THE SITE LIES WITHIN AN AREA DESIGNATED AS X (UNSHADED) PER FEMA FIRM PANEL 32031C3056G, dFIRM EFFECTIVE DATE 3/16/09.

**NOTES**

1. ALL SITE WORK CONSTRUCTION SHALL BE COMPLETED IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND ANY APPURTENANT SUPPLEMENTS.
2. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND FEES REQUIRED FOR CONSTRUCTION.
3. THE CONTRACTOR SHALL VERIFY IN FIELD, ALL ELEVATIONS, DIMENSIONS, FLOW LINES, EXISTING CONDITIONS, AND POINTS OF CONNECTION WITH ADJOINING PROPERTY (PUBLIC OR PRIVATE).
4. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
5. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION.
6. THE CONTRACTOR SHALL MAINTAIN A DUST CONTROL PROGRAM, INCLUDING THE CONTRACTOR SHALL MAINTAIN AN ON-GOING PROCESS OF REMOVAL OF ALL SPILLAGE OF EXCAVATION MATERIAL ON ALL PAVED STREETS.
7. LAND GRADING SHALL BE DONE IN A METHOD TO PREVENT DUST FROM TRAVERSING THE PROPERTY LINE.
8. THE CONTRACTOR SHALL NOTIFY ALL EFFECTED PUBLIC ENTITIES 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
9. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE SOILS ENGINEER, CITY OF SPARKS, TMWA, AND NV ENERGY 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE TO EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION.
11. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONTACT THE UTILITY COMPANIES FOR LOCATIONS OR POT-HOLING PRIOR TO CONSTRUCTION.
12. ADD 4400 FEET TO ALL SPOT ELEVATIONS.



Know what's below.  
Call before you dig.



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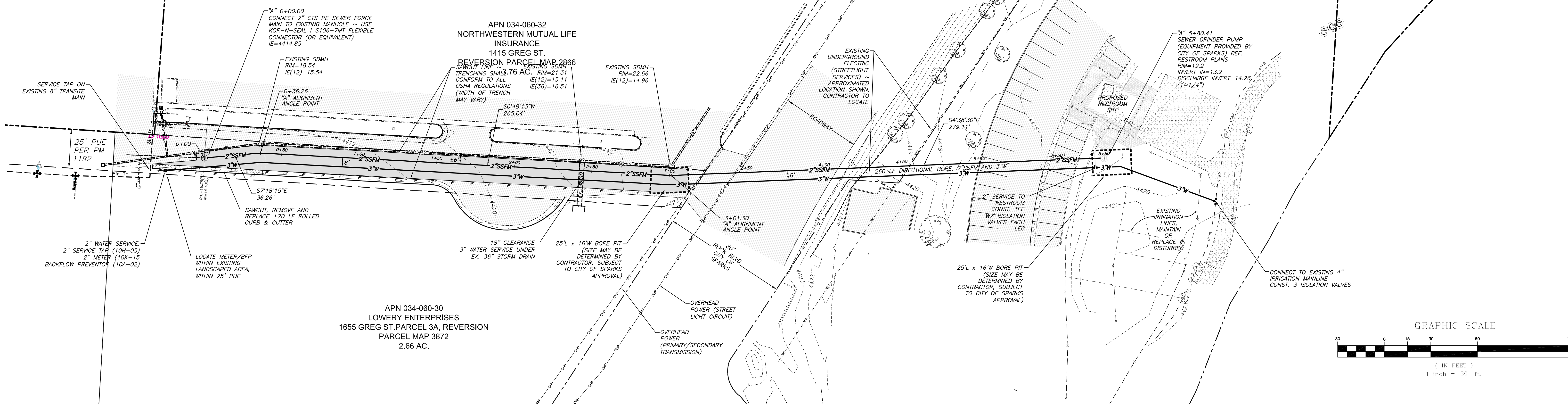
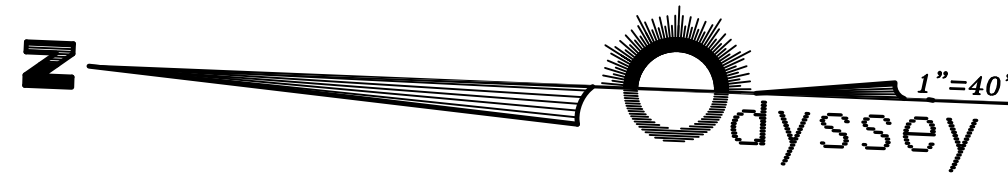
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City of Sparks  
1515 S. Rock Blvd  
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CIVIL SITE  
PLOT PLAN  
July 27, 2015  
H+K Project No: 1504  
**C101**

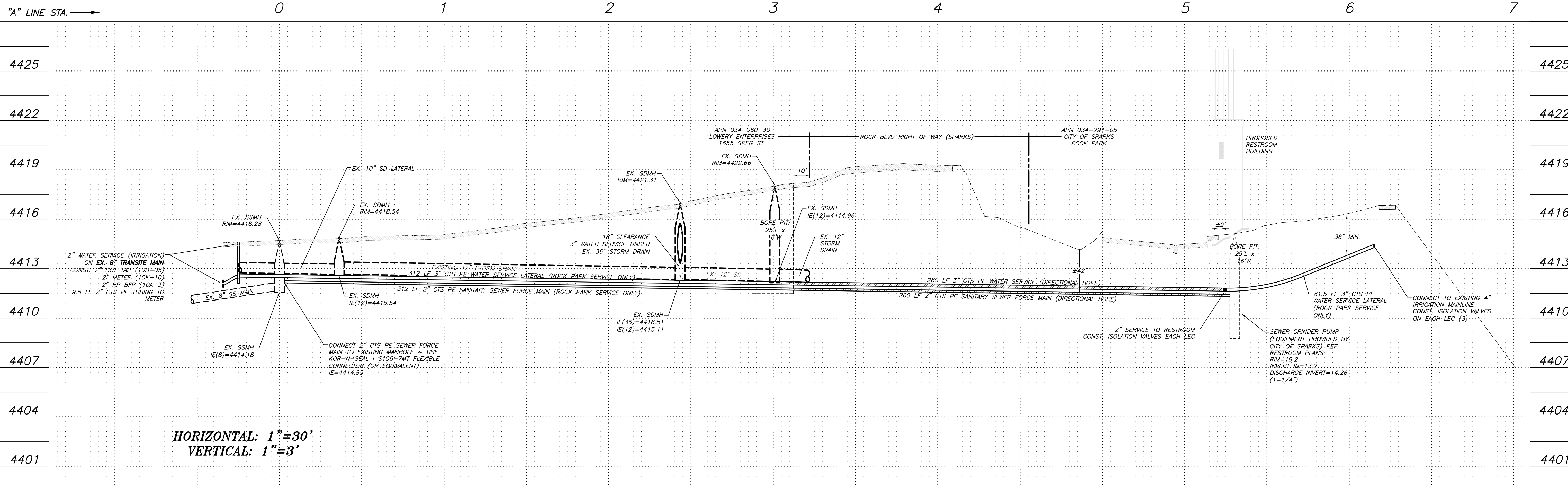




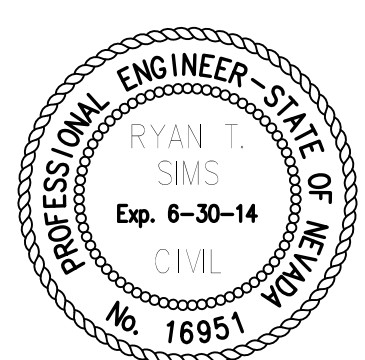


## GREG COURT/ROCK PARK SEWER/WATER

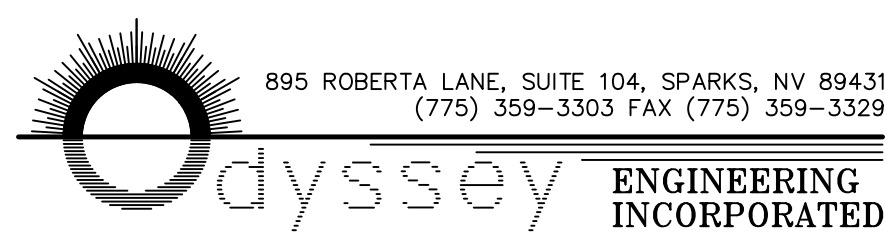
STA. "A" 0+00.00 to "A" 7+15.00



HORIZONTAL: 1"=30'  
VERTICAL: 1"=3'



Professional Seal    Date    Revision



Consultant

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### Rock Park Restroom and Storage Building

City of Sparks  
1515 S. Rock Blvd  
Sparks, Nevada 89502

CIVIL UTILITY  
SERVICE PLAN

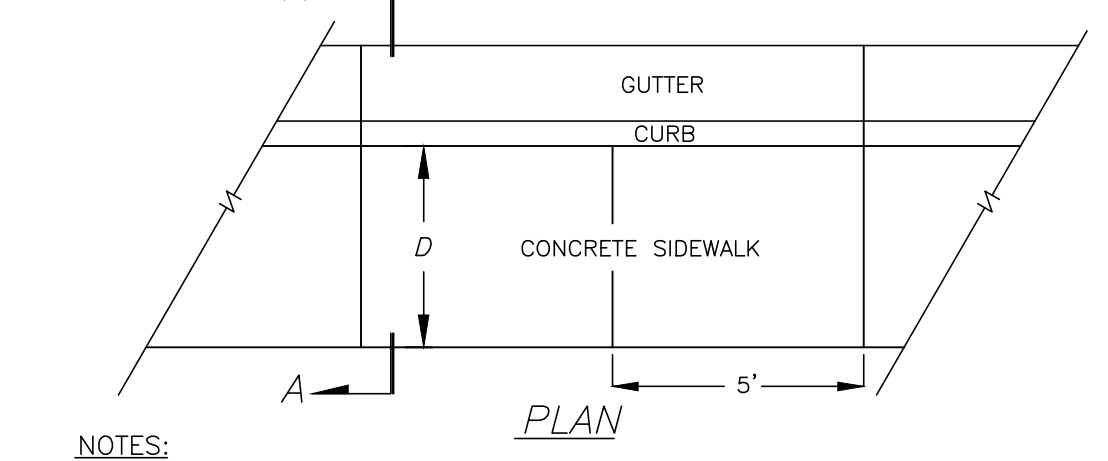
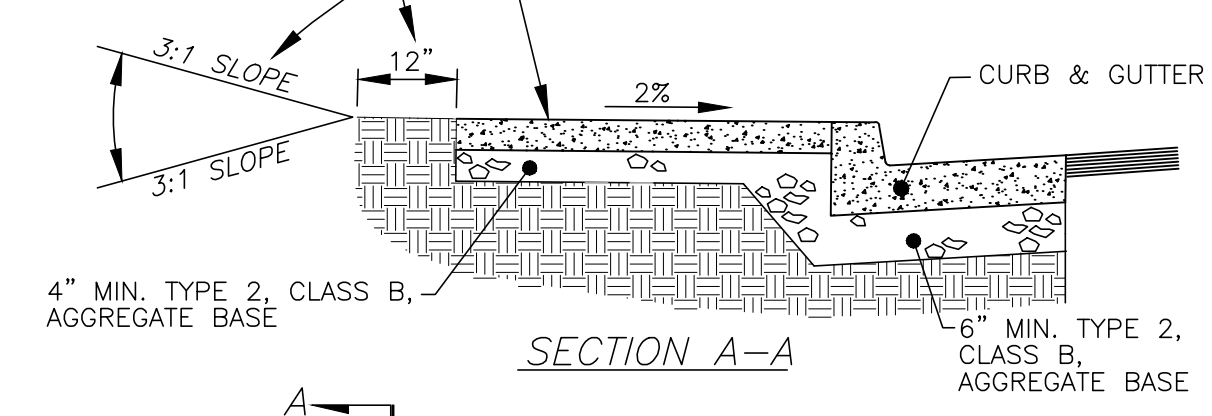
July 27, 2015  
H+K Project No: 1504

# C102



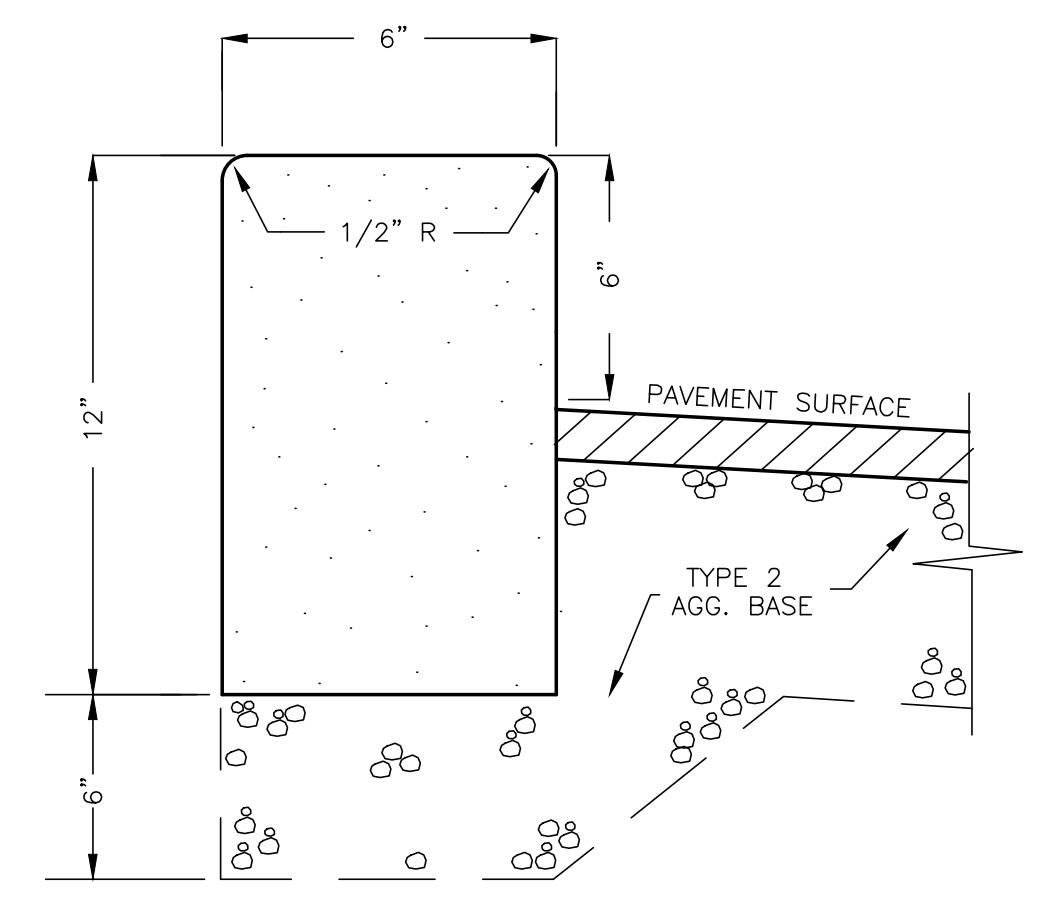


BACKFILL SHALL BE TO 90% RELATIVE COMPACTION BEHIND SIDEWALK FOR A HORZ. DISTANCE OF 1 FOOT, WITH A MATCH TO EXISTING GRADE OF NOT EXCEEDING A 3:1 SLOPE.



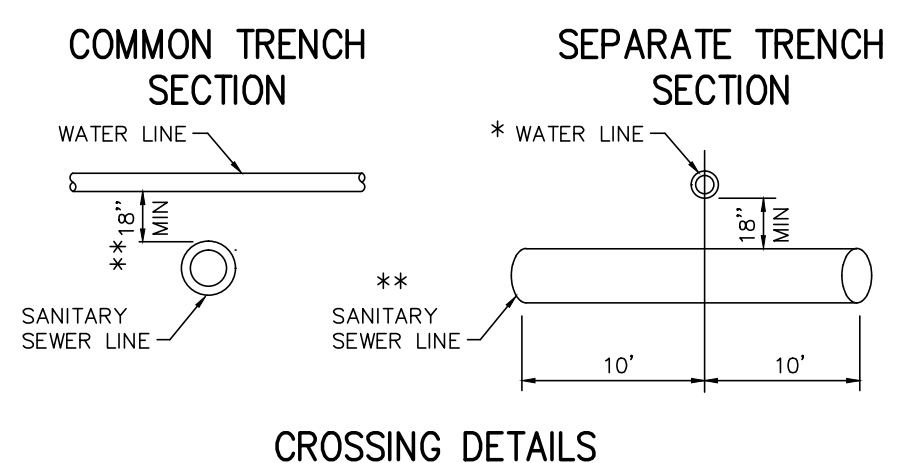
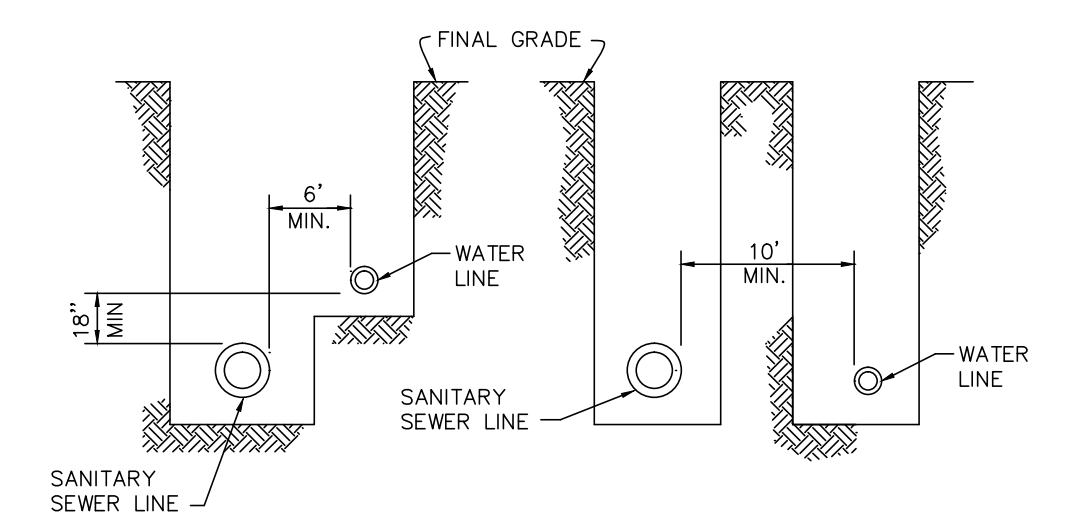
- NOTES:
1. MIN. CURB RADIUS SHALL BE 20 FEET, UNLESS OTHERWISE SPECIFIED.
  2. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLAN VIEW AND SECTION 312.09.02 OF THE SSPWC.
  3. TRAVERSE EXPANSION JOINTS 1/2" WIDE SHALL BE CONSTRUCTED AT ALL SIDEWALK RETURNS, OPPOSITE EXPANSION JOINTS IN ADJACENT CURB, AT REGULAR INTERVALS NOT EXCEEDING 30'. ISOLATION JOINTS SHALL BE INSTALLED AROUND ALL STRUCTURES. EXPANSION AND ISOLATION JOINTS SHALL BE FILLED WITH JOINT FILLER STRIPS 1/2" THICK. JOINT MATERIAL SHALL CONFORM TO SSPWC SECTION 202.10.
  4. COLORED CONCRETE IS NOT ALLOWED, UNLESS APPROVED BY THE CITY ENGINEER.
  5. ON SIDEWALKS WIDER THAN 5', JOINTING PATTERN SHALL BE .8 TO 1.2 TIMES THE WIDTH OF THE SIDEWALK.
  6. SIDEWALK WIDTH "D" SHALL BE 4' MIN. ON RESIDENTIAL STREETS AND 5' MIN. ON COLLECTOR AND ARTERIAL STREETS.
  7. PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX. WATER-CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. ALL MATERIALS SHALL CONFORM TO SSPWC SECTION 202. POLYPROPYLENE FIBERS SHALL BE ADDED TO THE P.C.C. PER THE MANUFACTURER'S RECOMMENDATIONS.
  8. NO CONCRETE SHALL BE PLACED UNTIL FORMS AND SUBGRADE ARE INSPECTED BY THE CITY EXCAVATION PERMIT INSPECTOR OR APPLICABLE ENGINEER OF RECORD.
  9. CONCRETE REMOVAL SHALL BE TO NEAT SAW CUT LINES.

**SIDEWALK**



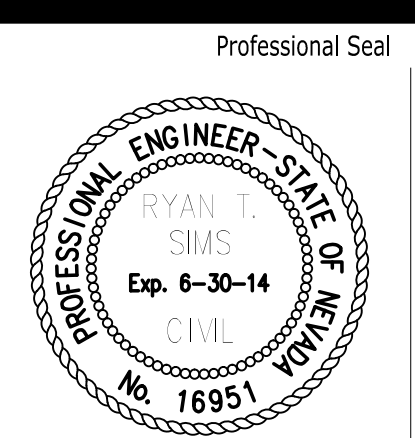
- NOTES:
1. FIBER-REINFORCED PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH @ 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH A MAX. WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. ALL MATERIALS SHALL CONFORM TO SSPWC SECTION 202. POLYPROPYLENE FIBERS SHALL BE ADDED TO THE P.C.C. PER THE MANUFACTURER'S RECOMMENDATIONS.
  2. (A) ALL CONCRETE CURB/GUTTER/SIDEWALK/VALLEY GUTTER SHALL HAVE WEAKENED PLANE JOINTS EVERY 10 FEET.  
(B) EXPANSION JOINTS 1/2" WIDE SHALL BE LOCATED IN CURBS & GUTTERS @ EACH SIDE OF STRUCTURES, @ ENDS OF ALL CURB RETURNS, & ABUTTING HARDENED IN-PLACE CURB & GUTTER, EXCEPT THAT EXPANSION JOINTS SHALL NOT BE INSTALLED WITHIN 20' OF AN ISLAND NOSE. EXPANSION JOINTS SHALL BE 1/2" THICK, SHAPED TO THE CROSS SECTION OF THE CURB & GUTTER, & SHALL BE CONSTRUCTED @ RIGHT ANGLES TO THE CURB & GUTTER. JOINT FILLER MATERIAL SHALL CONFORM TO SECTION 202.10
  3. AGGREGATE BASE MATERIAL SHALL CONFORM TO THE SPECIFICATIONS FOR TYPE 2 AGGREGATE BASE AND BE COMPACTED TO MIN. 95% MAXIMUM DRY DENSITY (M.D.D.).

**TYPE 2 POST CURB**



- \* IF WATER LINE IS LOCATED 18" OR MORE ABOVE THE SANITARY SEWER, THE DISTANCE BETWEEN LINES CAN BE REDUCED TO A MIN. OF 6 FEET.  
\*\* LESS THAN 18" CLEARANCE REQUIRES THE SANITARY SEWER TO BE DUCTILE IRON OR REINFORCED CONCRETE ENCASED TO A LENGTH OF 10 FEET IN EITHER DIRECTION FROM THE WATER MAIN.

**TYPICAL SANITARY SEWER UTILITY TRENCH**



| Professional Seal | Date | Revision |
|-------------------|------|----------|
|                   |      |          |



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**Rock Park**  
**Restroom and Storage Building**  
City of Sparks  
1515 S. Rock Blvd  
Sparks, Nevada 89502

CIVIL SITE DETAILS  
July 27, 2015  
H+K Project No: 1504  
**C103**



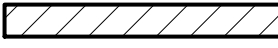
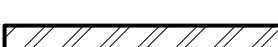


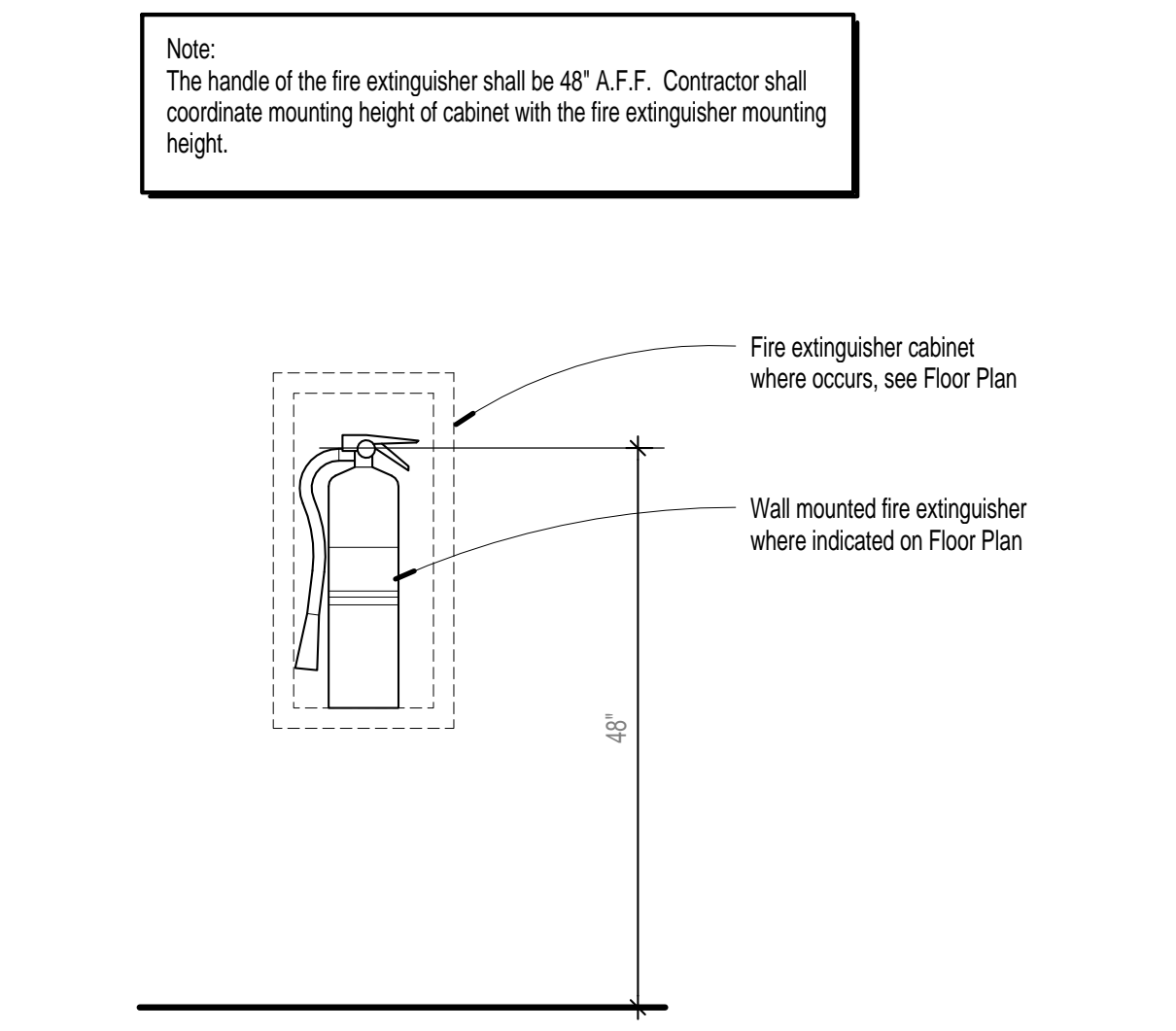


| Toilet Accessories Schedule     |              |              |                                |  |
|---------------------------------|--------------|--------------|--------------------------------|--|
| Description                     | Model Number | Manufacturer | Remarks                        |  |
| A Airblade V Hand Dryer         | AB12-120V    | Dyson        |                                |  |
| F Grab Bar                      | B-5806x36    | Bobrick      |                                |  |
| J Sanitary Napkin Disposal Unit | B-270        | Bobrick      | Surface Mounted - Contura      |  |
| L Mop and Broom Holder          | B-239        | Bobrick      | Mount at 5'-6" A.F.F. to shelf |  |
| M Grab bar                      | B-5806x42    | Bobrick      |                                |  |
| U Grab Bar                      | B-5806x18    | Bobrick      | Mount in a vertical position   |  |

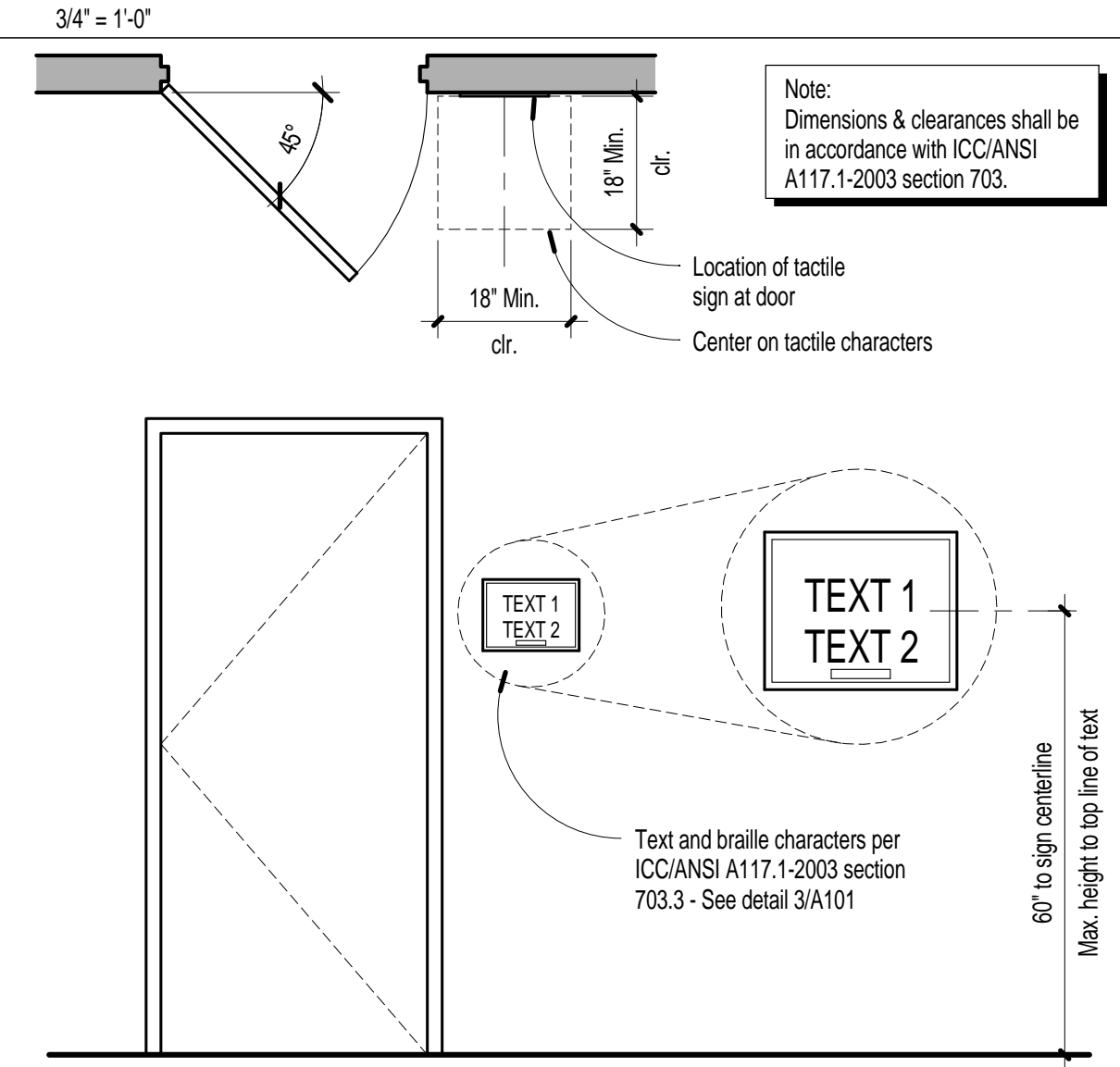
  

| Schedule Notes  |  |  |
|---|--|--|
| 1. Where grab bars are noted to be installed see specifications for install requirements. | 2. Toilet Accessories are noted on the plans. Refer to the typical Toilet Accessory Mounting Heights per detail 1/G102 for mounting height of accessories. | 3. Product Specification for all toilet accessories shall be Bobrick Contura Series (U.N.O.), as listed in the manufacturer's current data, or an equal approved by the Architect. |

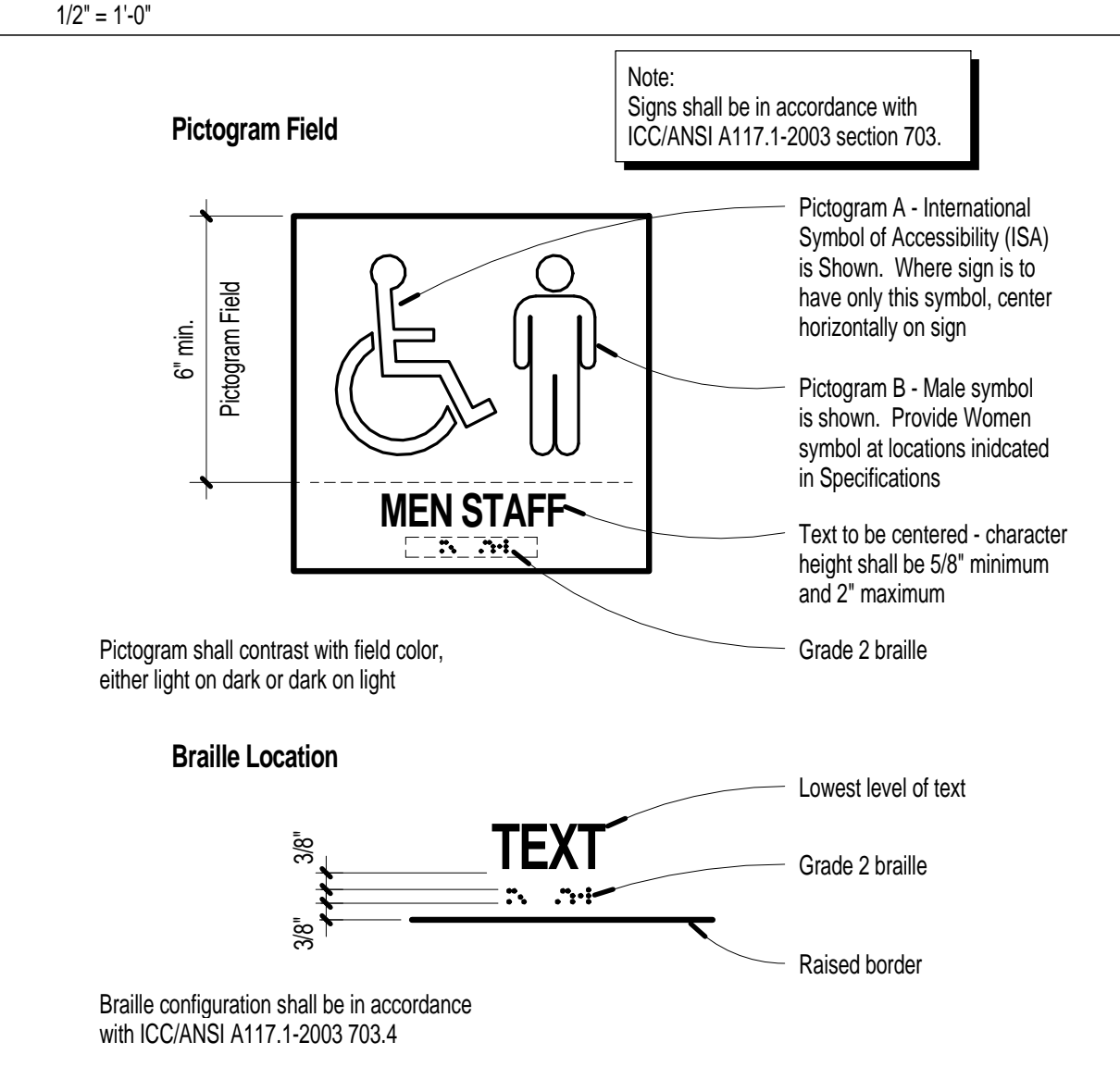
| Wall Legend   | Sheet Notes   |
|---|---|
|  Exterior Masonry Wall:<br>8" Masonry wall (see structural). See 5/A301 for color type and coursing.                          | <ol style="list-style-type: none"> <li>All dimensions are from face of CMU, or center of framed opening, unless noted otherwise.</li> <li>For dimensions of masonry walls and rough openings, see the Structural drawings. Masonry dimensions shown on this plan are for reference only. Any discrepancies found between the dimensions on this sheet and the Structural drawings shall be brought to the immediate attention of the Architect.</li> <li>Plan symbol abbreviations are as follows, but not limited to:<br/>f.e.c Fire extinguisher cabinet - see 5/A101<br/>d.f. Drinking fountain - see Plumbing</li> <li>See Floor Plan for location of floor drains. All floors not to exceed a cross slope of 1:50 (2%) per ADAAG.</li> </ol> |
|  Interior Masonry Wall:<br>6" Masonry wall (see structural). CMU to be grey precision color #100 joints to be struck smooth. |   |



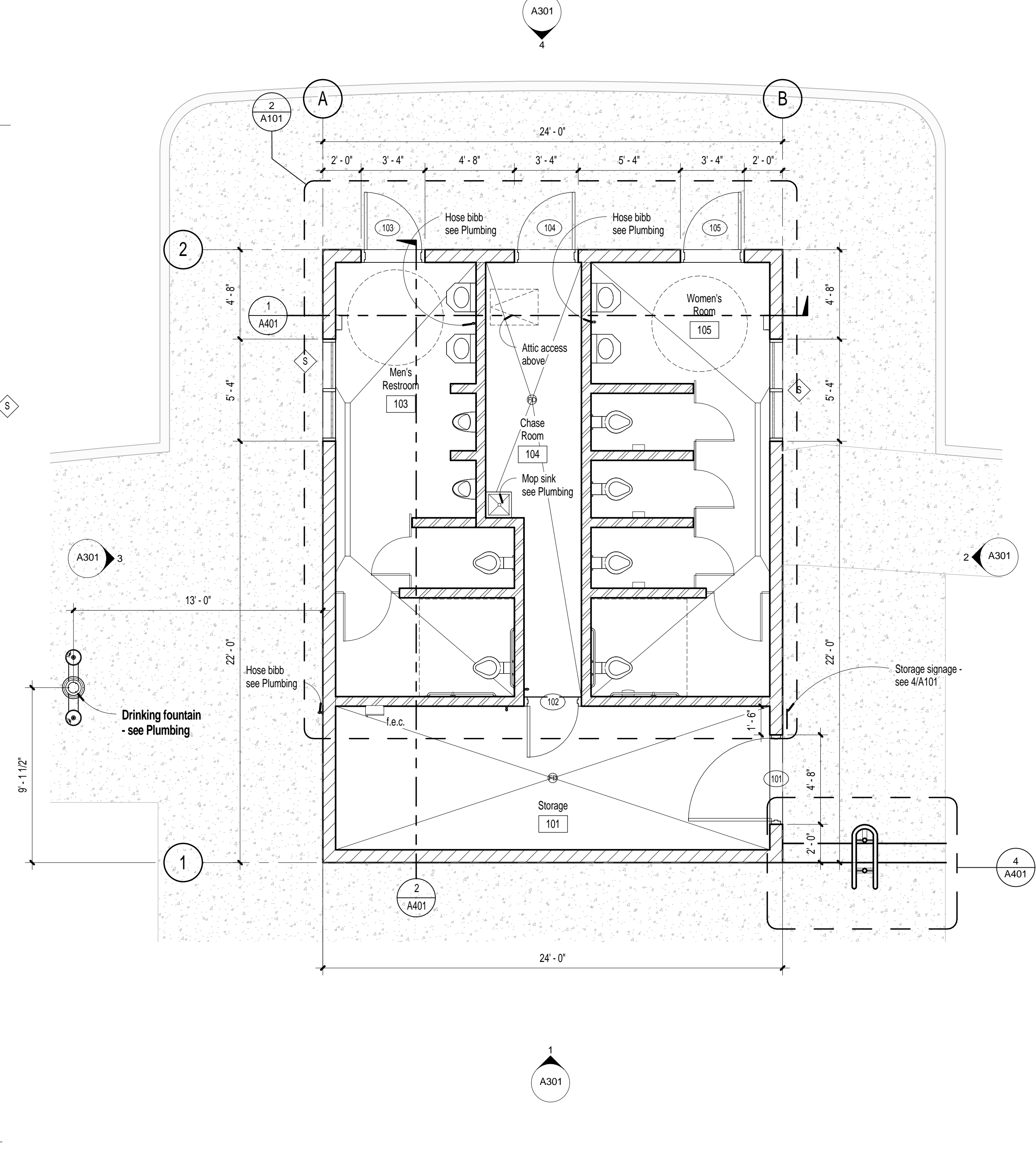
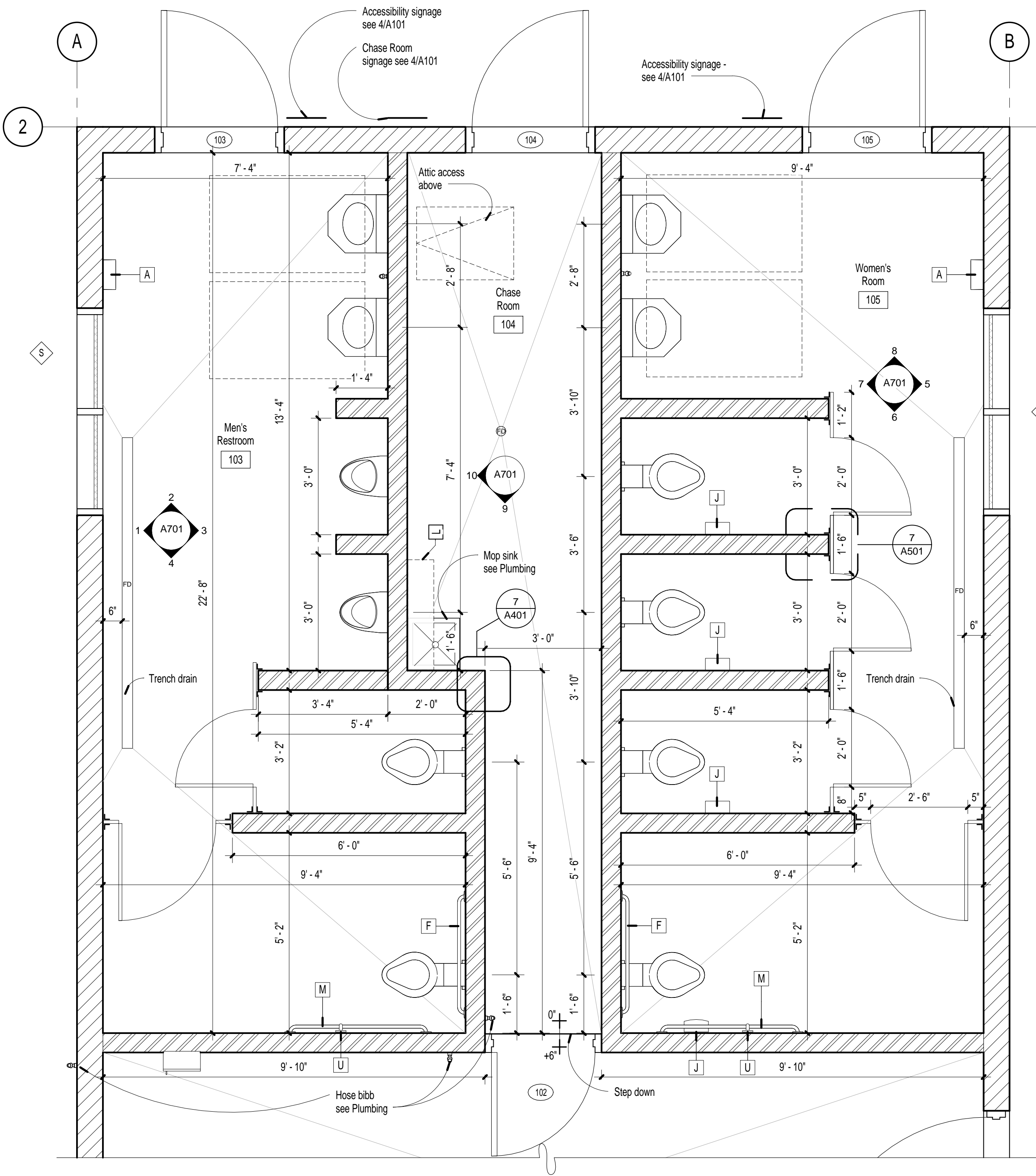
5 Typ. Fire Extinguisher Mounting Height



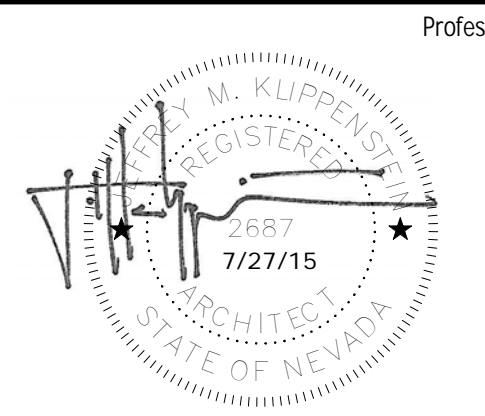
4 Typical Sign Mounting



3 Sign Detail



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|-------------------|------|----------|------------|
| Professional Seal | Date | Revision | Consultant |
|                   |      |          |            |

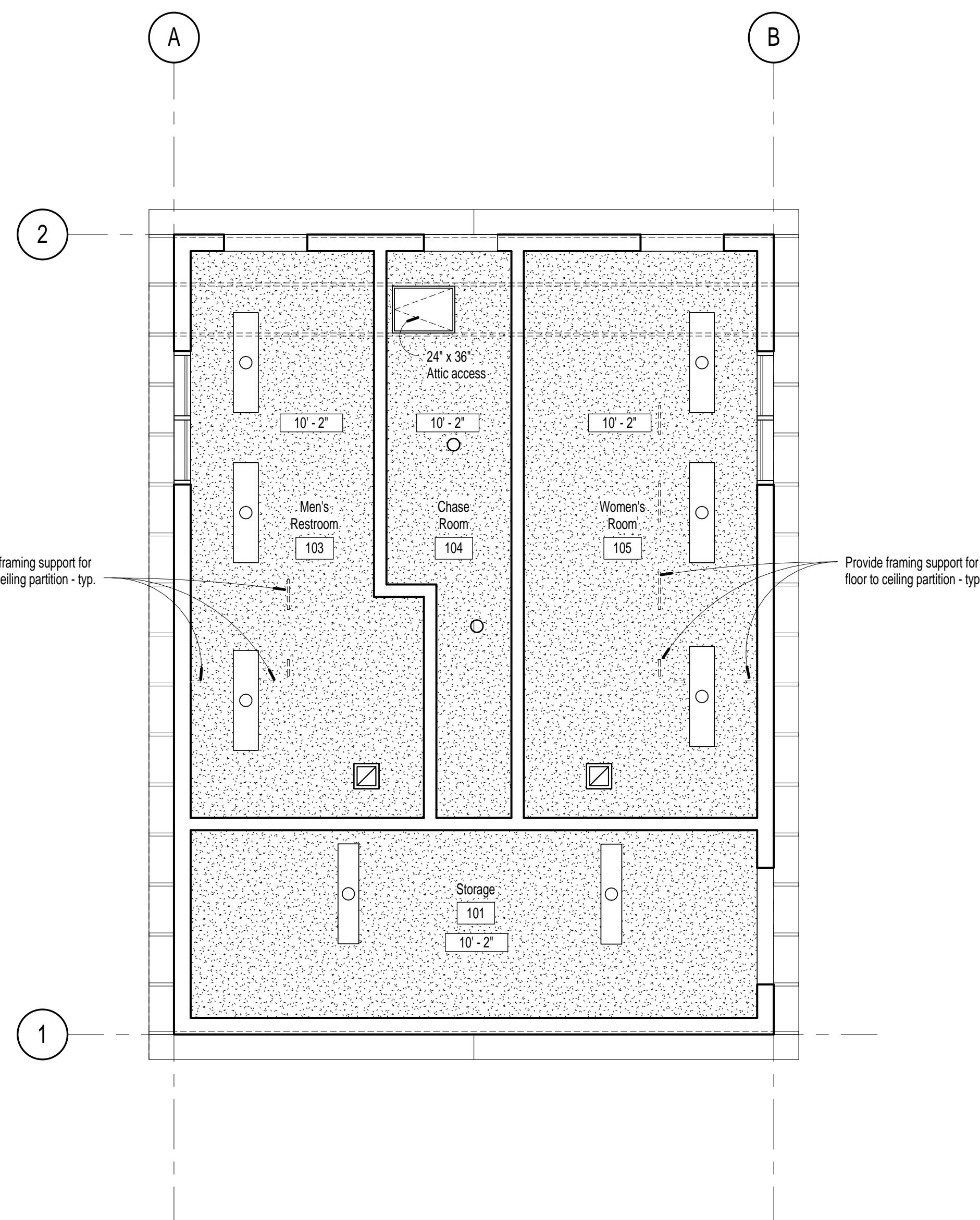
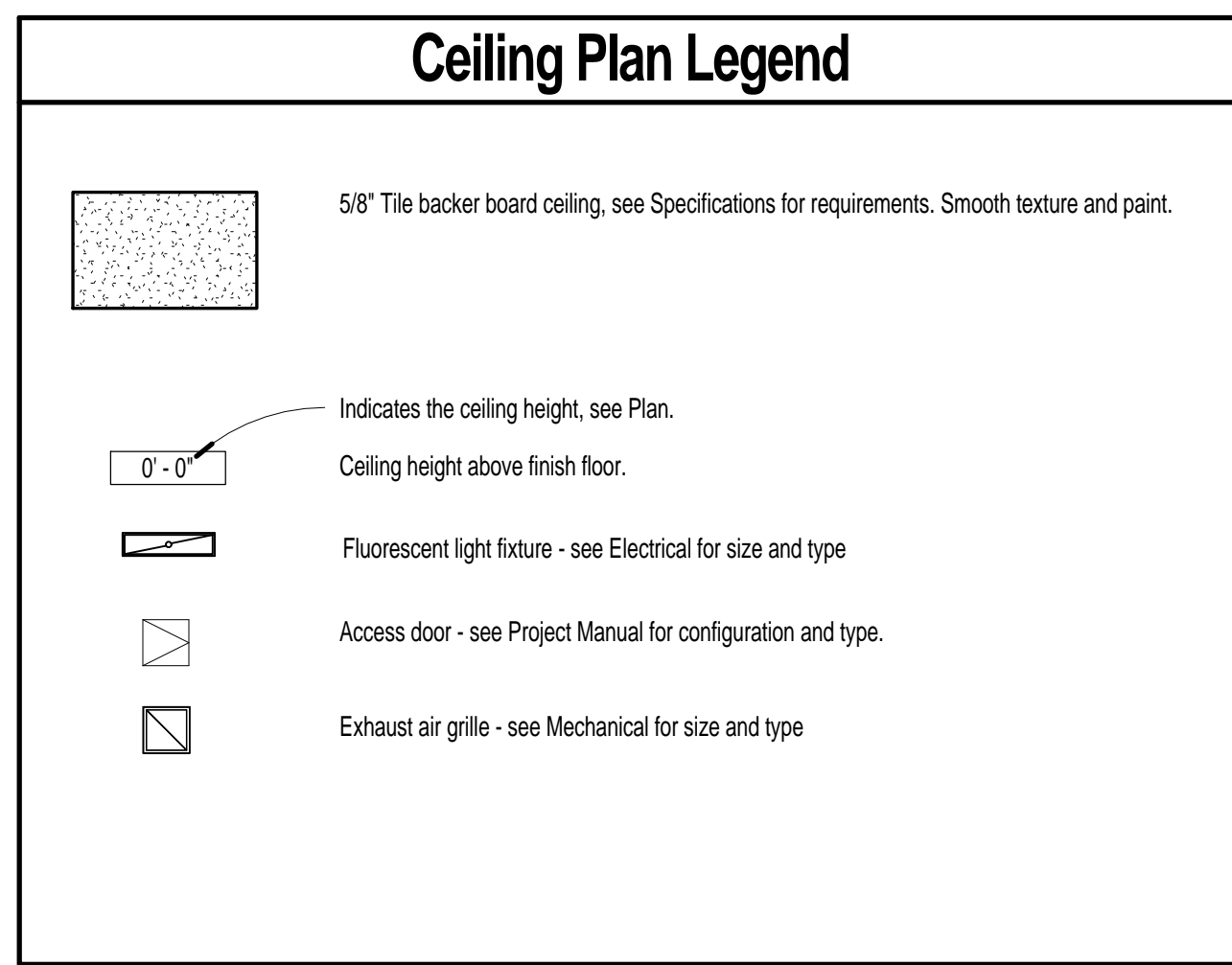
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**Rock Park Restroom and Storage Building**  
 1515 S. Rock Blvd.  
 Sparks, NV 89502

Floor Plan  
 July 27, 2015  
 H+K Project No: 1504  
**A101**

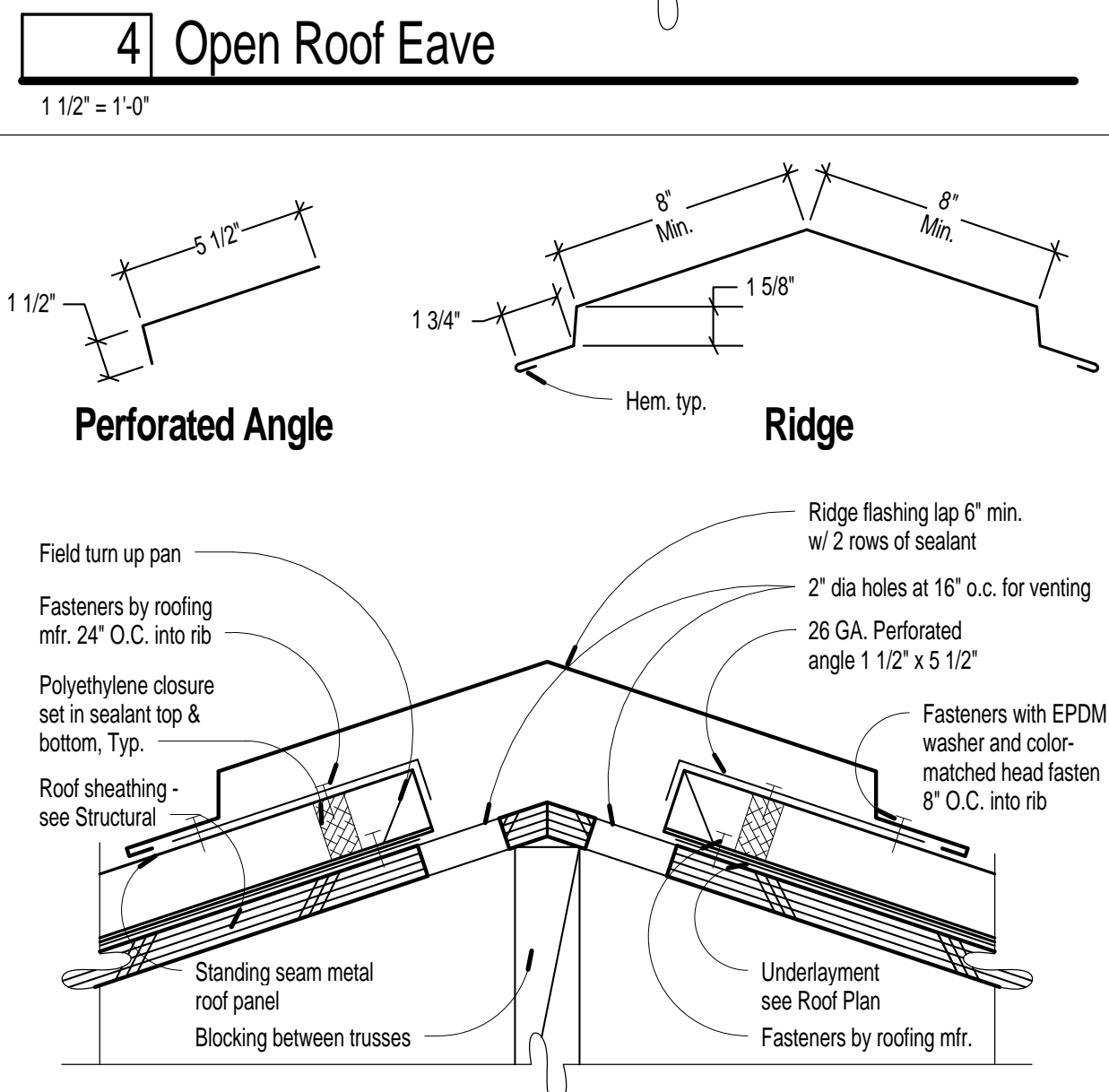
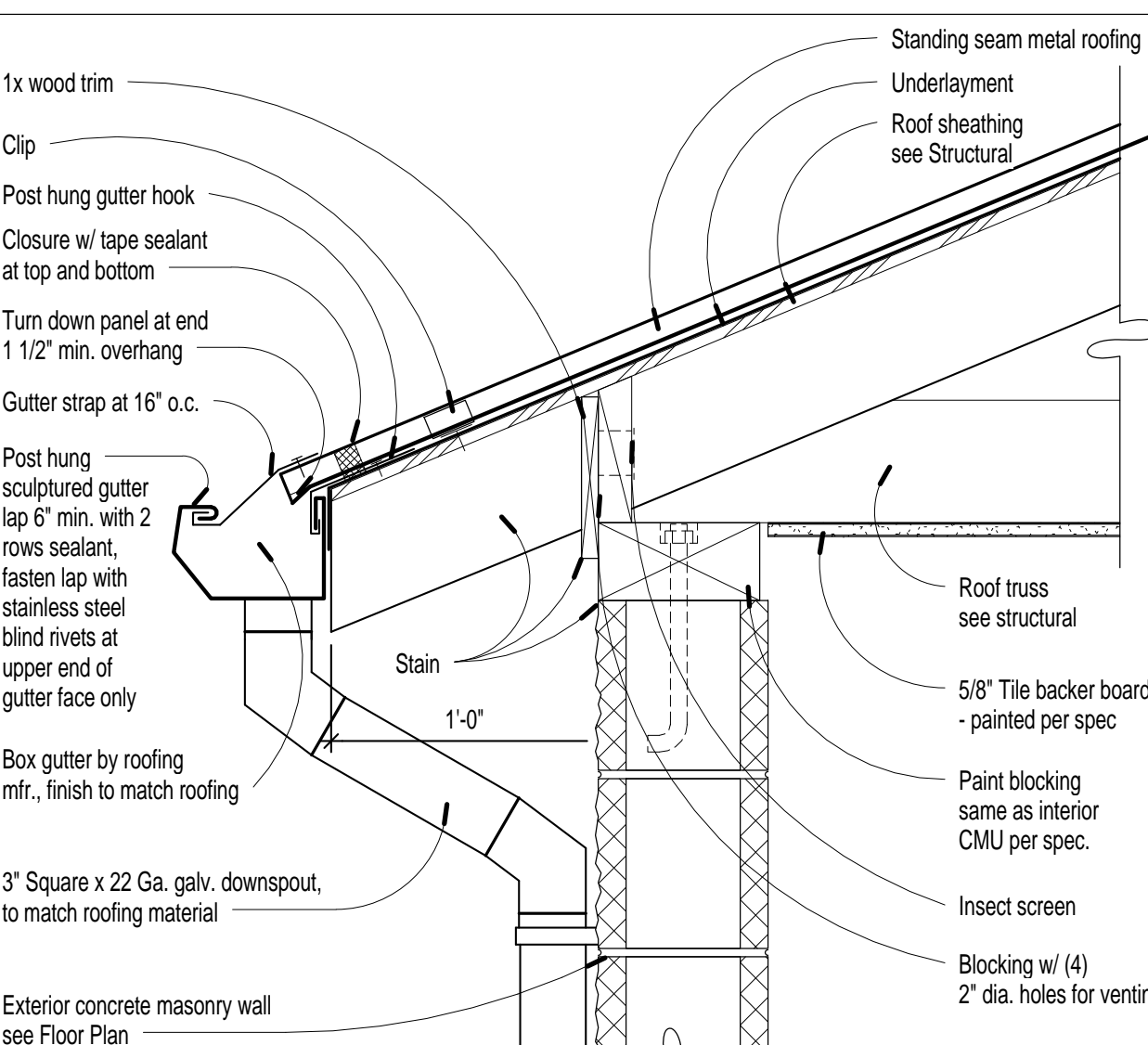
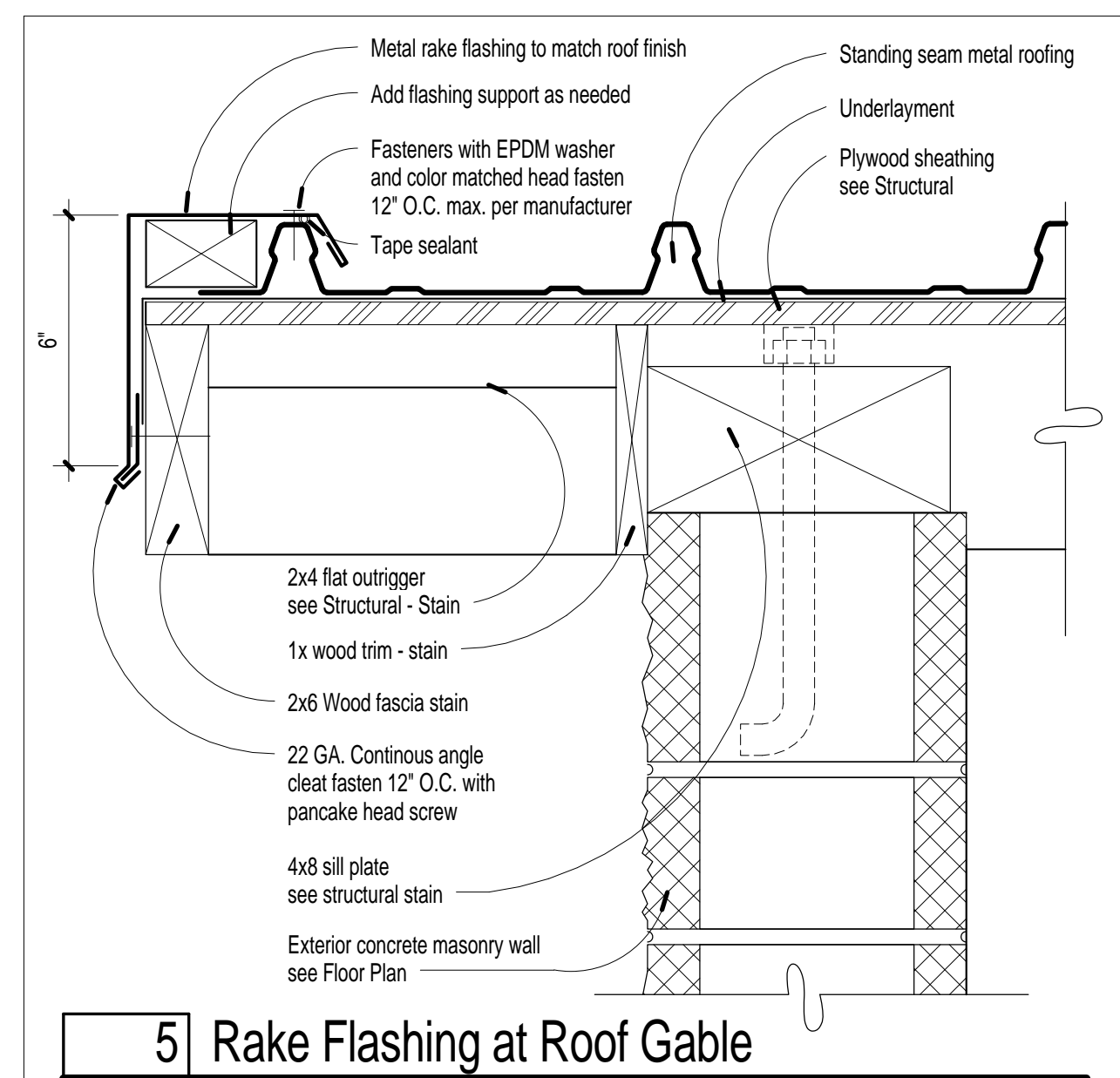






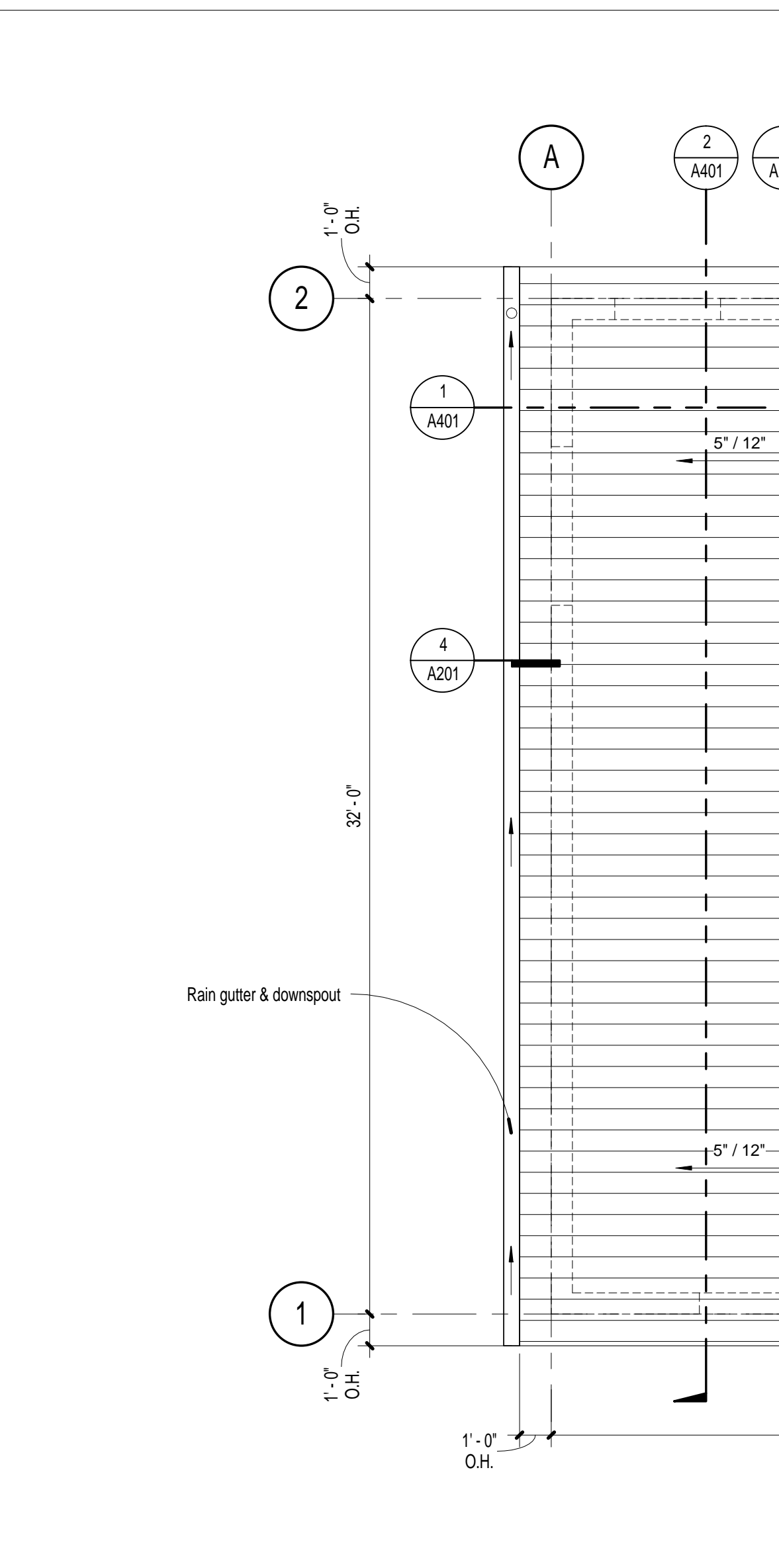
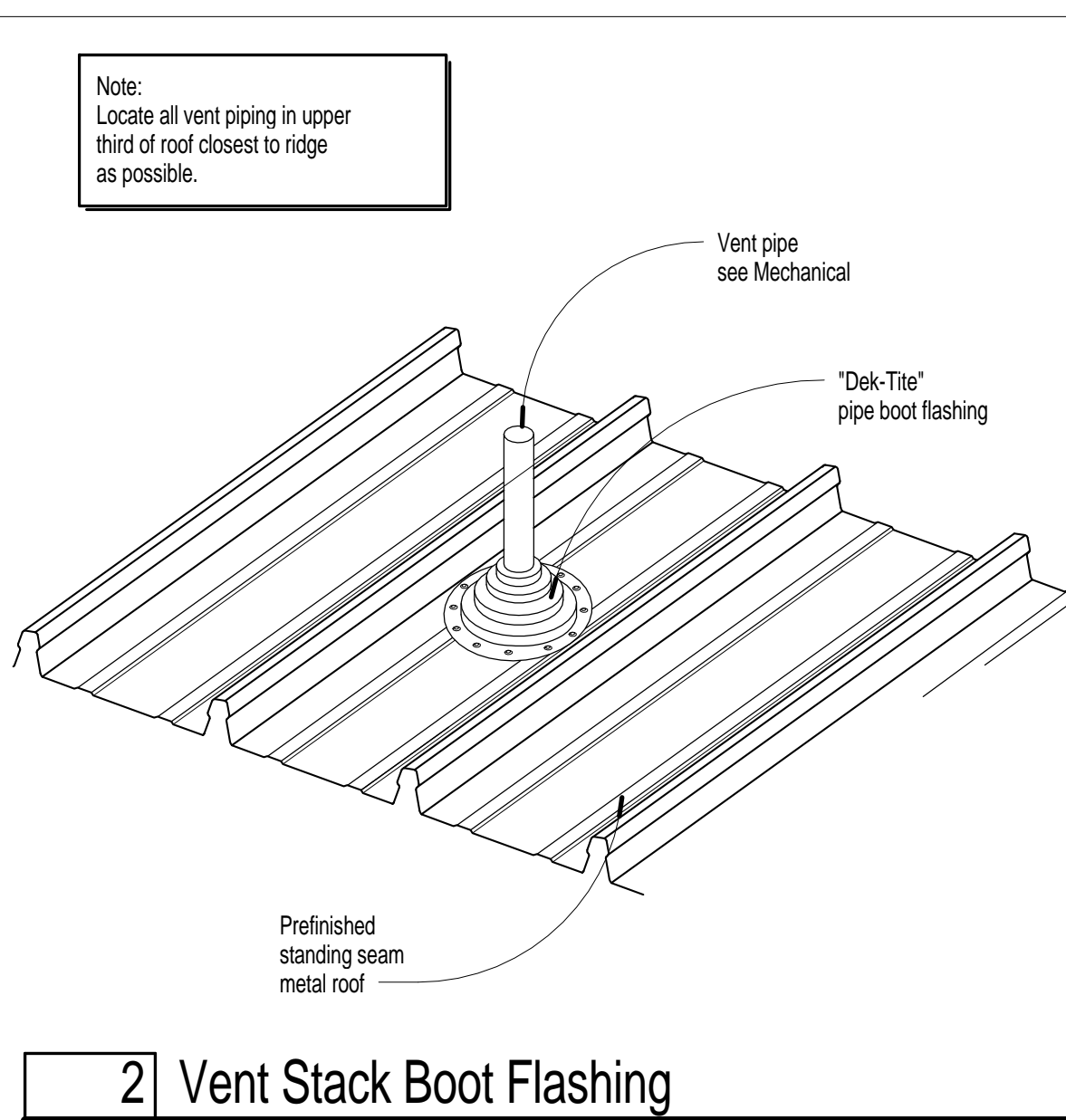
**6 Reflected Ceiling Plan**

1/4" = 1'-0"



**3 Roof - Hip - Ridge Flashing**

3" = 1'-0"



**1 Roof Plan**

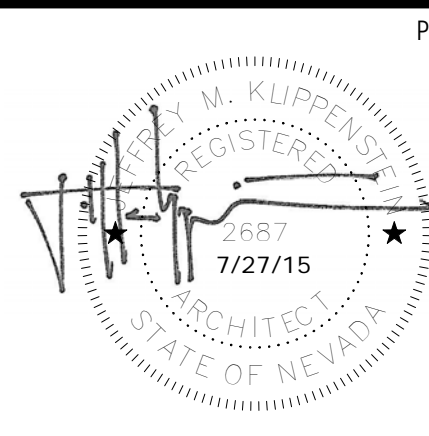
1/4" = 1'-0"

### Roof Notes

- The Roof System is to include the following:  
Prefab wood trusses at 24" o.c. with roof slope as noted on plan w/ standing seam metal roofing over underlayment over plywood sheathing (see Structural).
- The mechanical equipment, vents, & lights shown on this plan is for reference only. Refer to Mechanical and Electrical drawings for exact location and quantities and other information.
- Attic Ventilation Calculations:  
Ventilation area required = 1001 SF / 300 = 3.3 SF  
Eave vents provided: (4) 2" dia. holes at 8 bays (8x.09) = .72  
Ridge vents provided: (36) 2" dia. holes @ 24" o.c. (36x.09) = 3.24  
Total vent area provided: .72 SF eave vents + 3.2 SF ridge vents = 3.96

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**Rock Park  
Restroom and Storage Building**

1515 S. Rock Blvd.  
Sparks, NV 89502

Roof & Reflected Ceiling  
Plan

July 27, 2015  
H+K Project No: 1504

**A201**





# Color + Materials Schedule

## Split-face Masonry Units

Mfg. Basalt Concrete Products LLC  
 Colors: #101 (33%) - Random  
 Colors: #102 (33%) - Random  
 Colors: #118 (32%) - Random  
 Colors: #125 (2%) - Random  
 Mortar Color: Natural Grey

### Exterior CMU Note:

All exposed exterior masonry surfaces shall be split-face. All split-face CMU to be equal amounts of 101, 102 & 118 colors - randomly placed.

All exterior joints to be raked

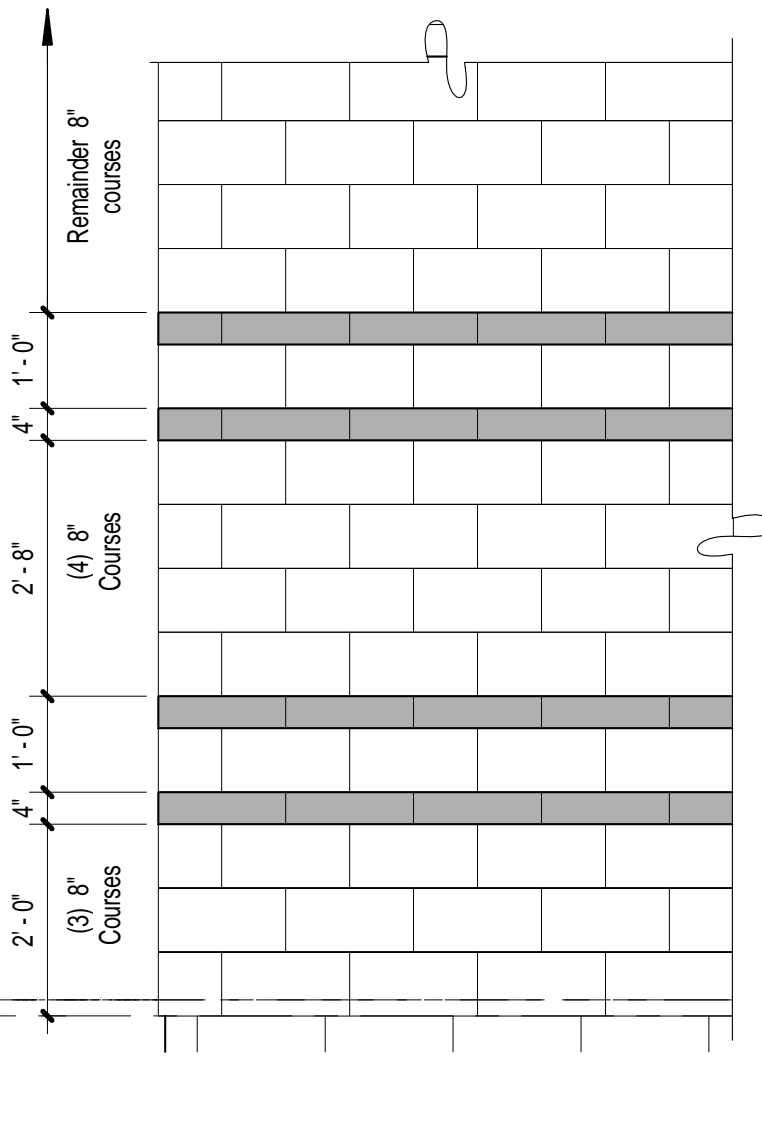
All exterior CMU to receive anti-graffiti coating system - see spec.

### Interior CMU Note:

6"x8"x16" interior masonry wall (see Structural). CMU to be grey precision color #100.

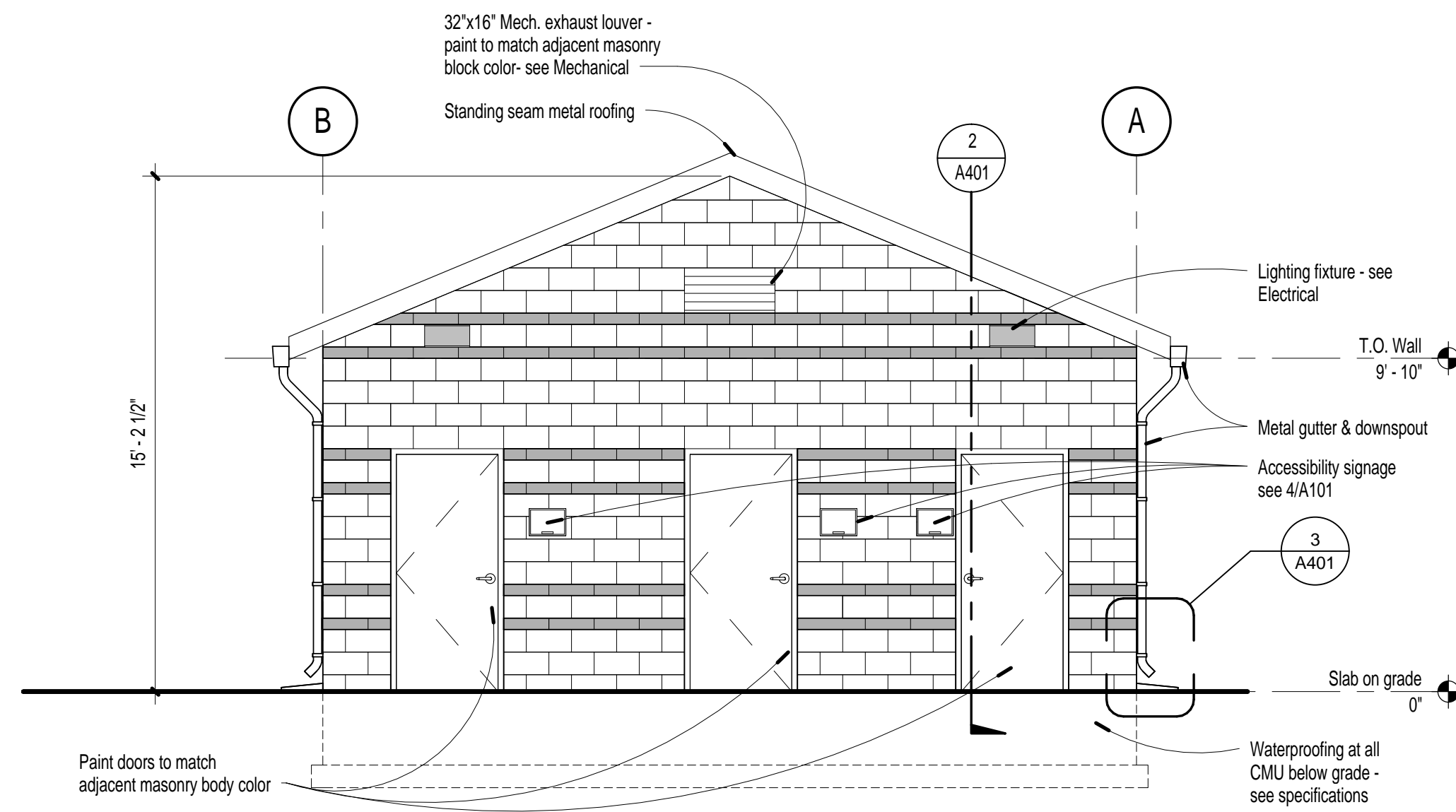
All interior joints to be struck smooth

All interior CMU to receive epoxy paint system - see spec.



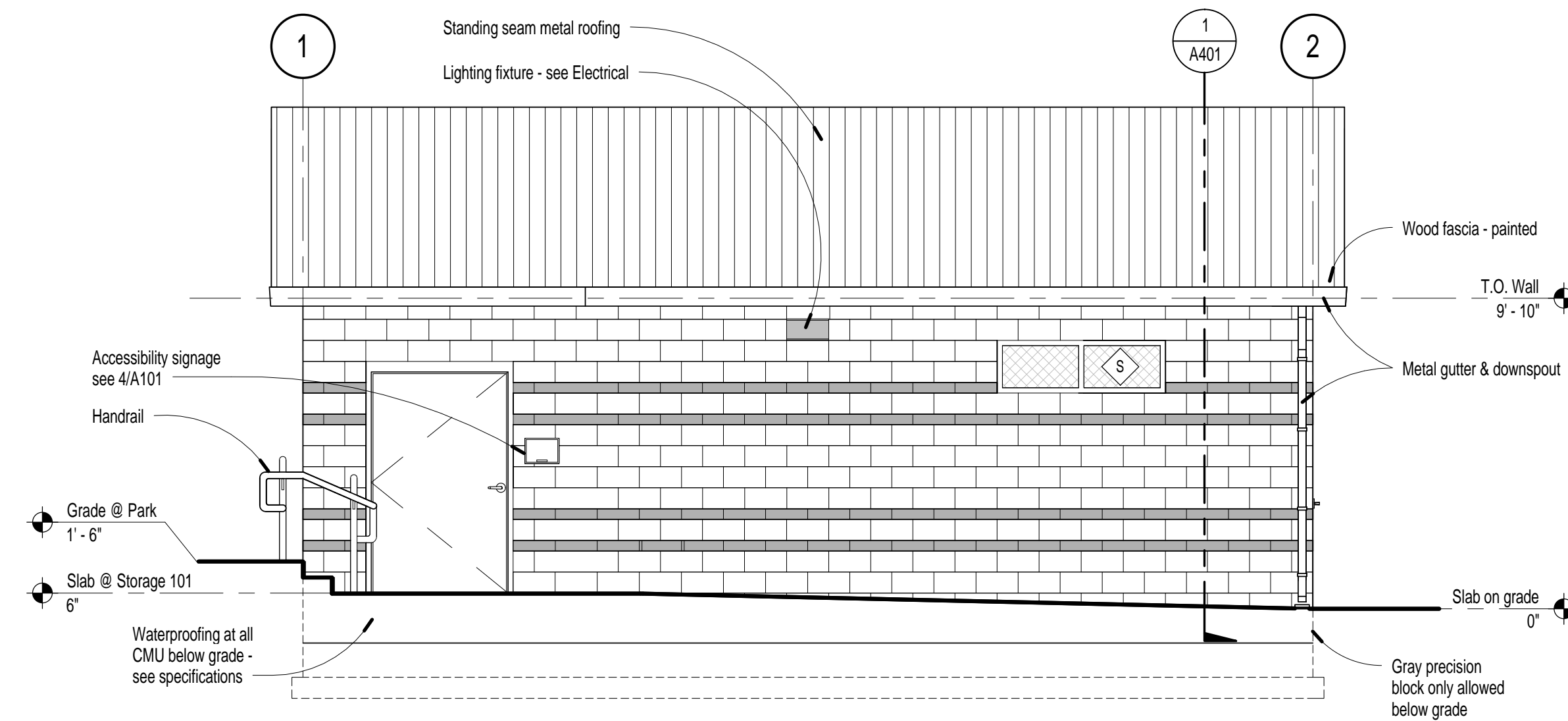
**5** Masonry Pattern

1/2" = 1'-0"



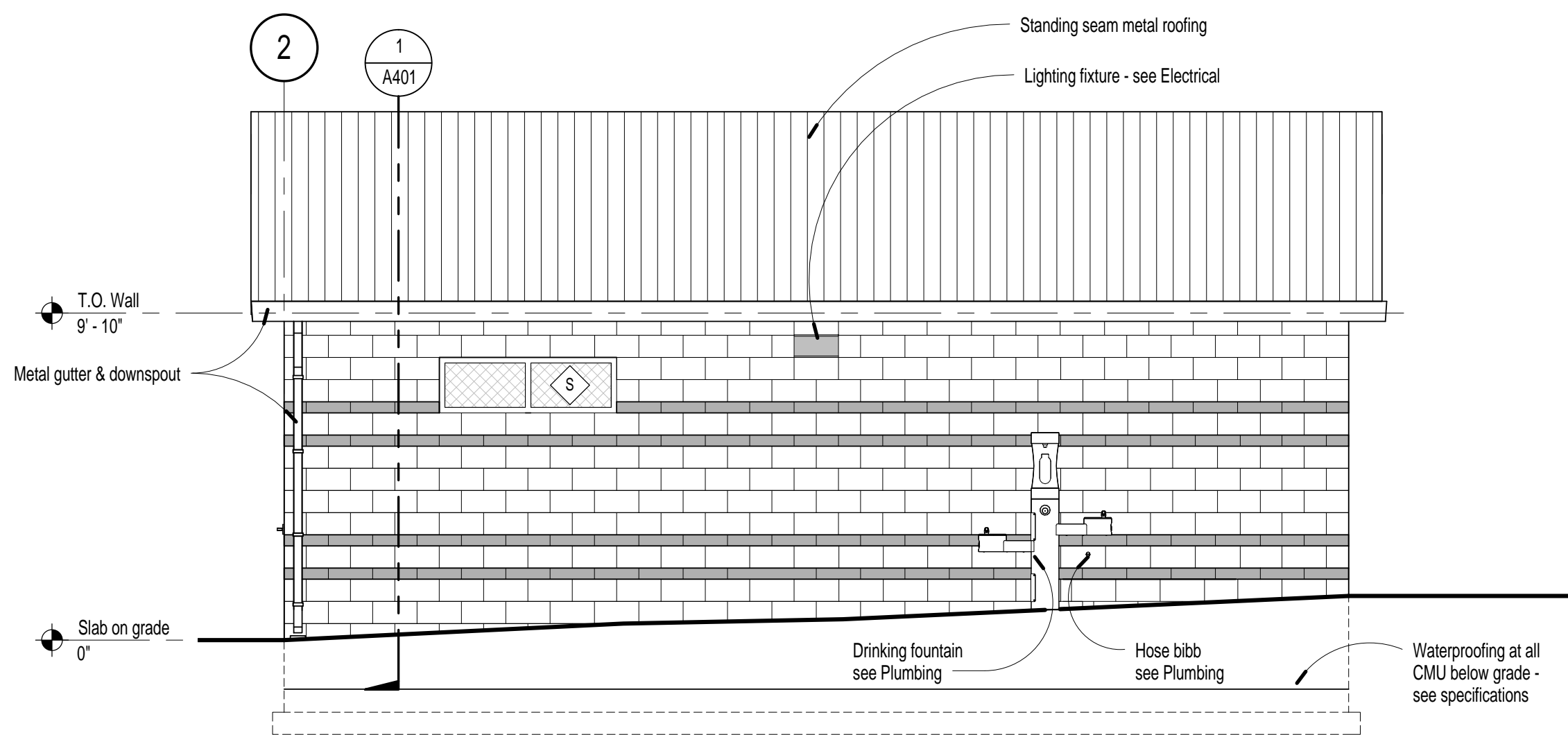
**4** North Elevation

1/4" = 1'-0"



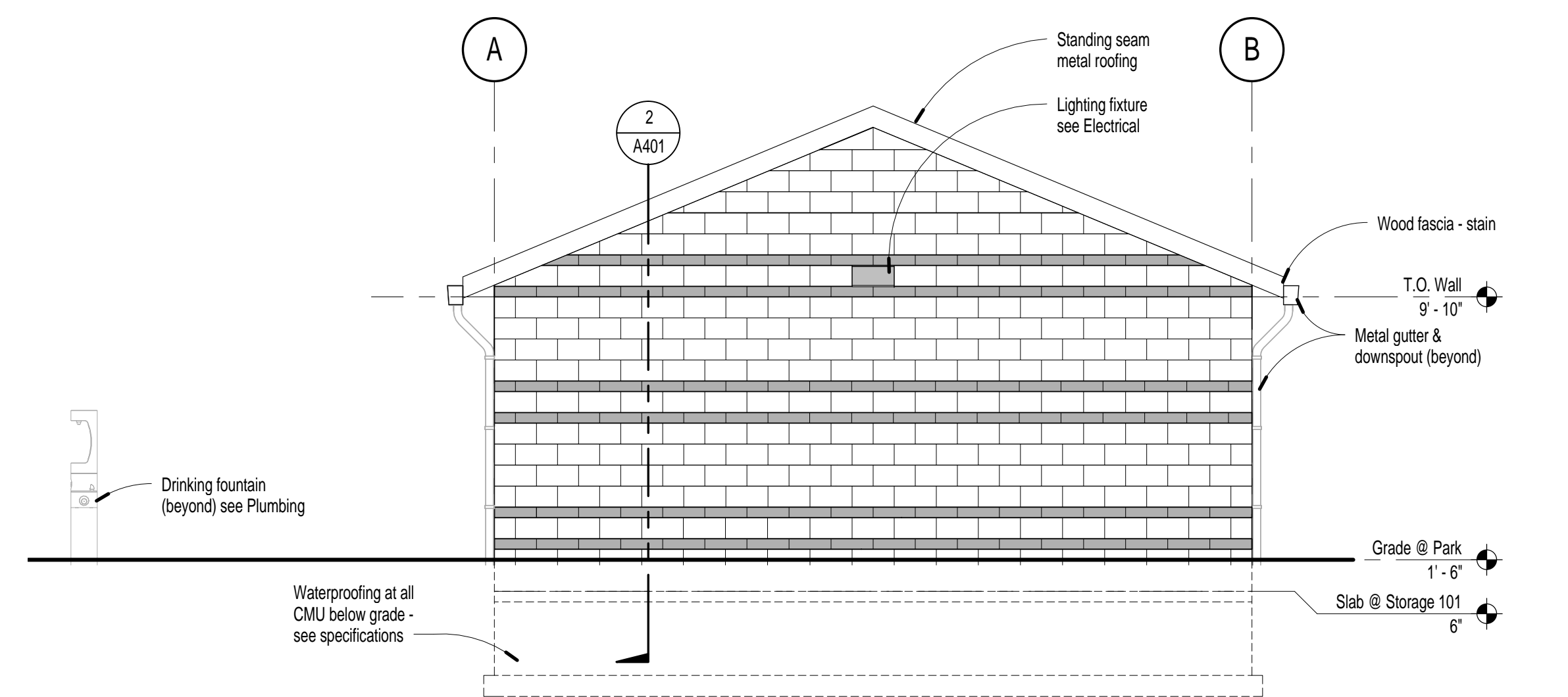
**2** East Elevation

1/4" = 1'-0"



**3** West Elevation

1/4" = 1'-0"

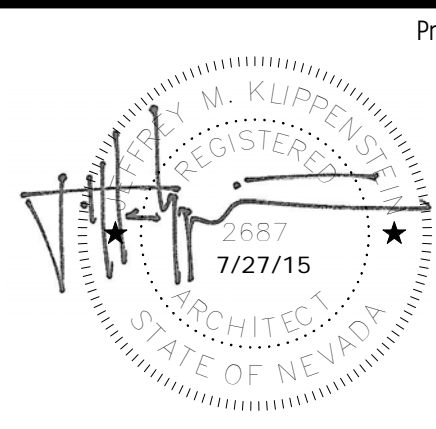


**1** South Elevation

1/4" = 1'-0"

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## Rock Park Restroom and Storage Building

1515 S. Rock Blvd.  
 Sparks, NV 89502

Exterior Elevations

July 27, 2015  
 H+K Project No: 1504

**A301**









### Window Elevations

Note:  
PM - McNichols R Quality 11 Gauge mill finish stainless steel perforated metal w/ round 1/8" holes on 3/16" centers, staggered pattern, 40% open area

Frame Material: AL

### Door Schedule

| Door No. | DOOR          |      |       |      |       |        | FRAME |        |      |       | DETAILS |             |        |        | Label  | Hardw. Group | REMARKS |                |
|----------|---------------|------|-------|------|-------|--------|-------|--------|------|-------|---------|-------------|--------|--------|--------|--------------|---------|----------------|
|          | Size          | Pair | Mat'l | Type | Glass | Rating | Mat'l | Size   | Elev | Glass | Rating  | Head        | Strike | Hinge  |        |              |         | Sill           |
| 101      | 4'-4" x 7'-0" |      | ST    | F    | -     | -      | ST    | 7 5/8" | B    | -     | -       | 3/A601 Sim. | 2/A601 | 2/A601 | 1/A601 | -            | H1      |                |
| 102      | 3'-0" x 7'-0" |      | ST    | F    | -     | -      | ST    | 5 5/8" | A    | -     | -       | 3/A601      | 2/A601 | 2/A601 | 1/A601 | -            | H2      |                |
| 103      | 3'-0" x 7'-0" |      | ST    | L    | -     | -      | ST    | 7 5/8" | A    | -     | -       | 3/A601      | 2/A601 | 2/A601 | 1/A601 | -            | H3      | See Electrical |
| 104      | 3'-0" x 7'-0" |      | ST    | F    | -     | -      | ST    | 7 5/8" | A    | -     | -       | 3/A601      | 2/A601 | 2/A601 | 1/A601 | -            | H4      |                |
| 105      | 3'-0" x 7'-0" |      | ST    | L    | -     | -      | ST    | 7 5/8" | A    | -     | -       | 3/A601      | 2/A601 | 2/A601 | 1/A601 | -            | H5      | See Electrical |

### Frame Elevations

A                      B

### Door Types

F                      L

### Door Schedule Notes

Hardware supplier shall coordinate keying with Owner prior to submittal.

The following products are not available for substitution. This is required to coordinate with the existing hardware systems within City of Sparks. In such case, only the products below will be accepted:  
Schlage Hardware

|  |  |
|--|--|
| <p><b>Material and Type Legend</b></p> <p>ST Steel Hollow Metal - painted<br/>AL Anodized Aluminum - Black<br/>CD Coiling Door - Paint<br/>PM Perforated Metal</p> | <p><b>Basis of Design</b></p> <p>Perforated Metal - McNichols R Quality 11 Gauge mill finish stainless steel perforated metal w/ round 1/8" holes on 3/16" centers, staggered pattern, 40% open area</p> |
|--|--|

Note: All door hardware provided shall be compliant with Section 1008.1.8 and 1008.1.8.3 of the 2012 IBC. (See Specification)

### 7 Composite Attachment at CMU Partitions

3" = 1'-0"

### 4 Window Sill - Head Sim.

3" = 1'-0"

### 2 Door Jamb

3" = 1'-0"

### 6 Window - Jamb

3" = 1'-0"

### 3 Door - Head

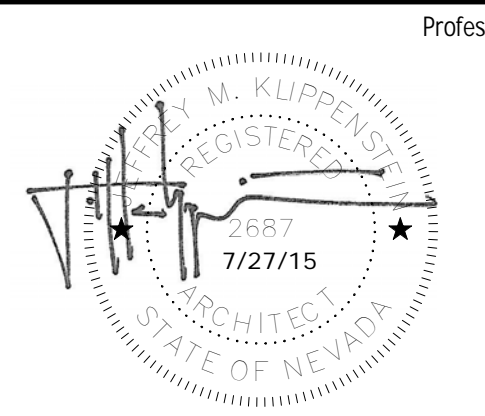
3" = 1'-0"

### 1 Door - Sill

3" = 1'-0"

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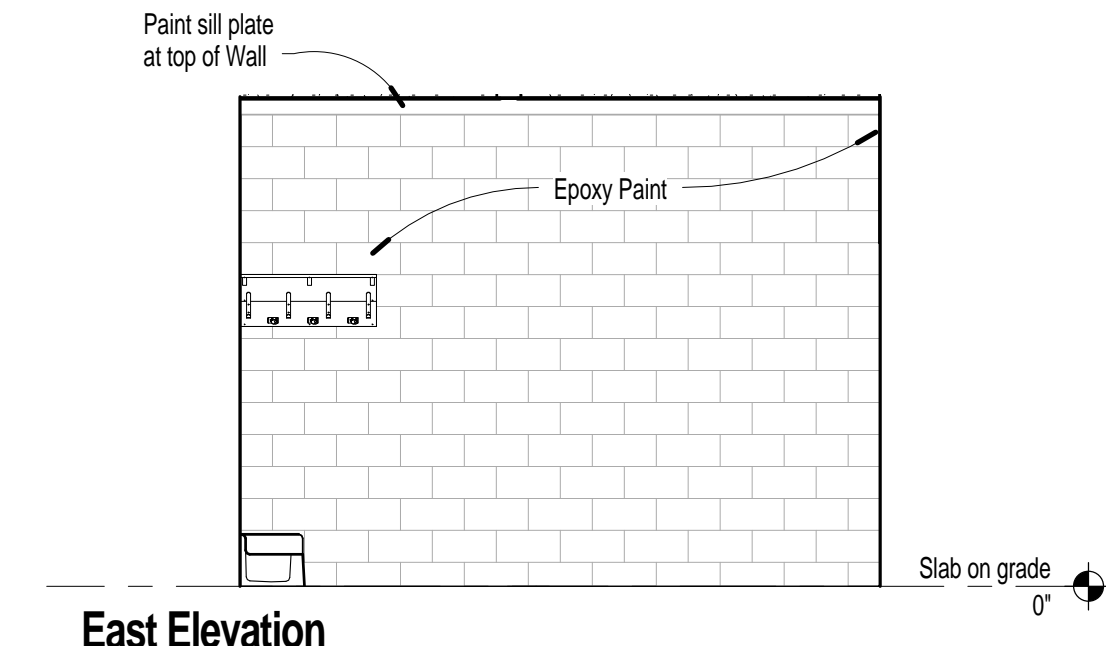
Door and Window Schedule, Elevations, and Details  
July 27, 2015  
H+K Project No: 1504

**A501**

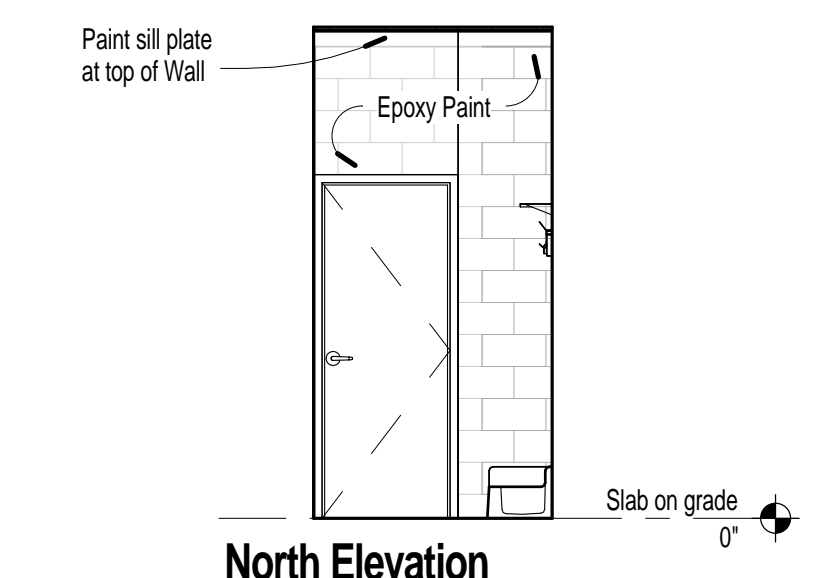




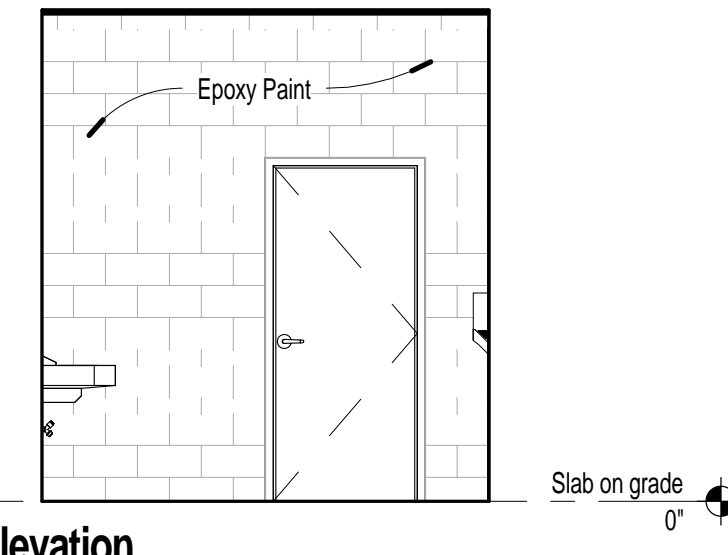
| Material Schedule            |  | Finish Schedule |   |       |           |       |      |         | Remarks |      |
|------------------------------|--|-----------------|---|-------|-----------|-------|------|---------|---------|------|
| Floor Materials:             |  | Floor           | Base  | Walls |           |       |      | Ceiling |         |      |
| Ceiling Materials:           |  |                 |   | No.   | Room Name | North | East |         | South   | West |
| F1                           | Sealed Concrete<br>See spec.   | C1              | Gypsum Board attached to bottom of premanufactured truss cords - Paint to match Sherwin Williams White Duck (SW 7010) |       |           |       |      |         |         |      |
| Paint / Stain Color Schedule |  |                 |   |       |           |       |      |         |         |      |
| P1                           | Paint Color #1<br>Color to match:<br>Sherwin Williams - White Duck (SW 7010) | P2              | Paint Color #2<br>Color to match:<br>Sherwin Williams - White Duck (SW 7010)  |       |           |       |      |         |         |      |



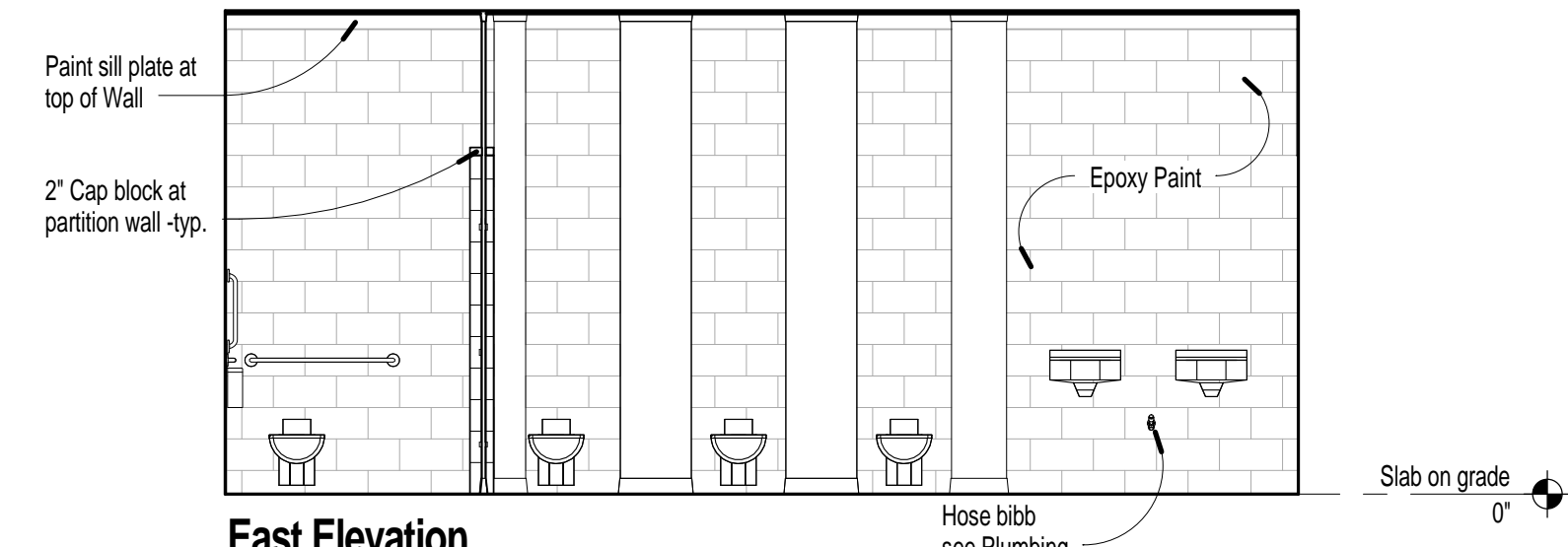
10 Chase Room 104  
1/4" = 1'-0"



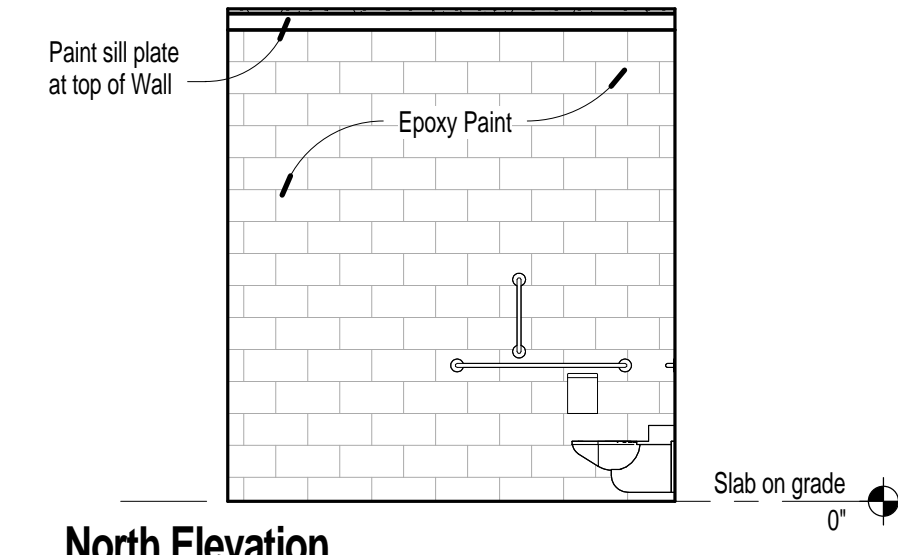
9 Chase Room 104  
1/4" = 1'-0"



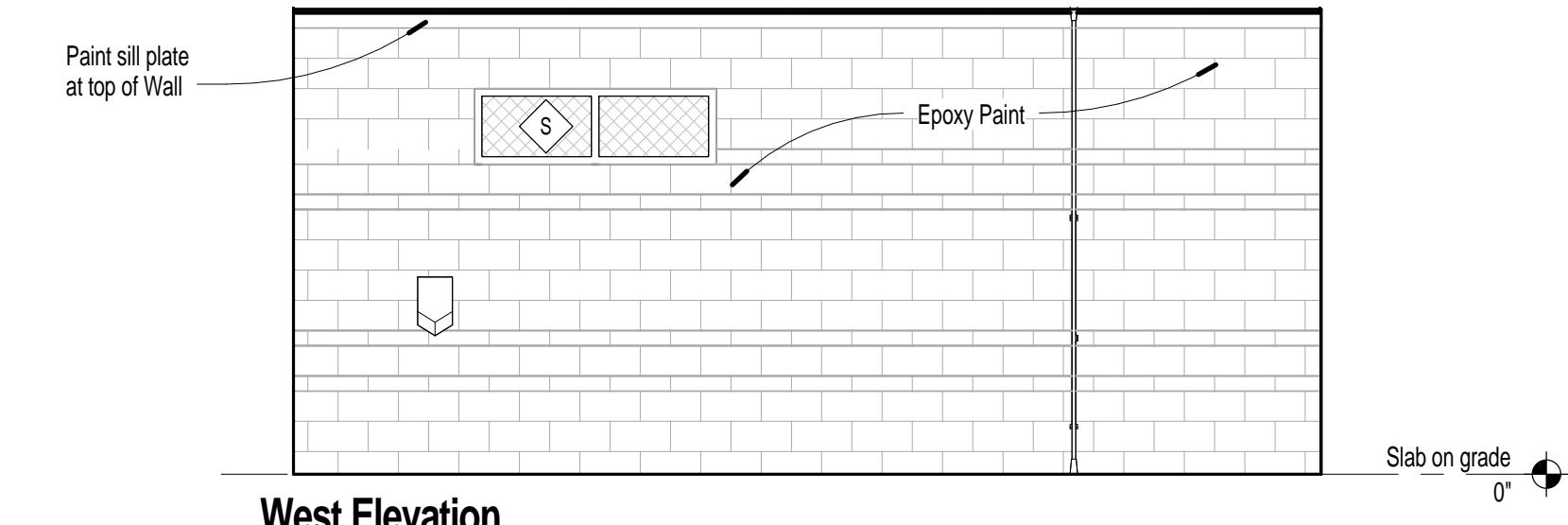
8 Womens Restroom 105  
1/4" = 1'-0"



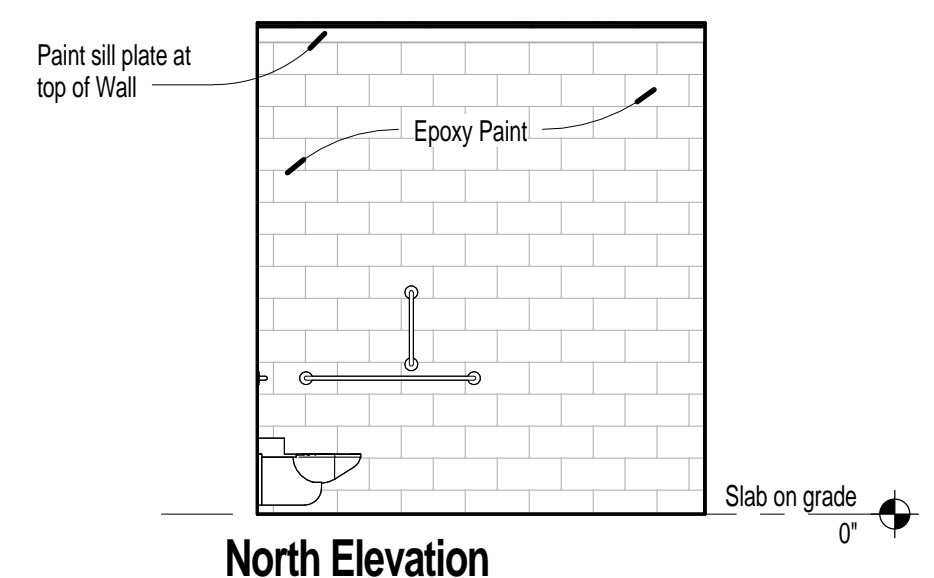
7 Womens Restroom 105  
1/4" = 1'-0"



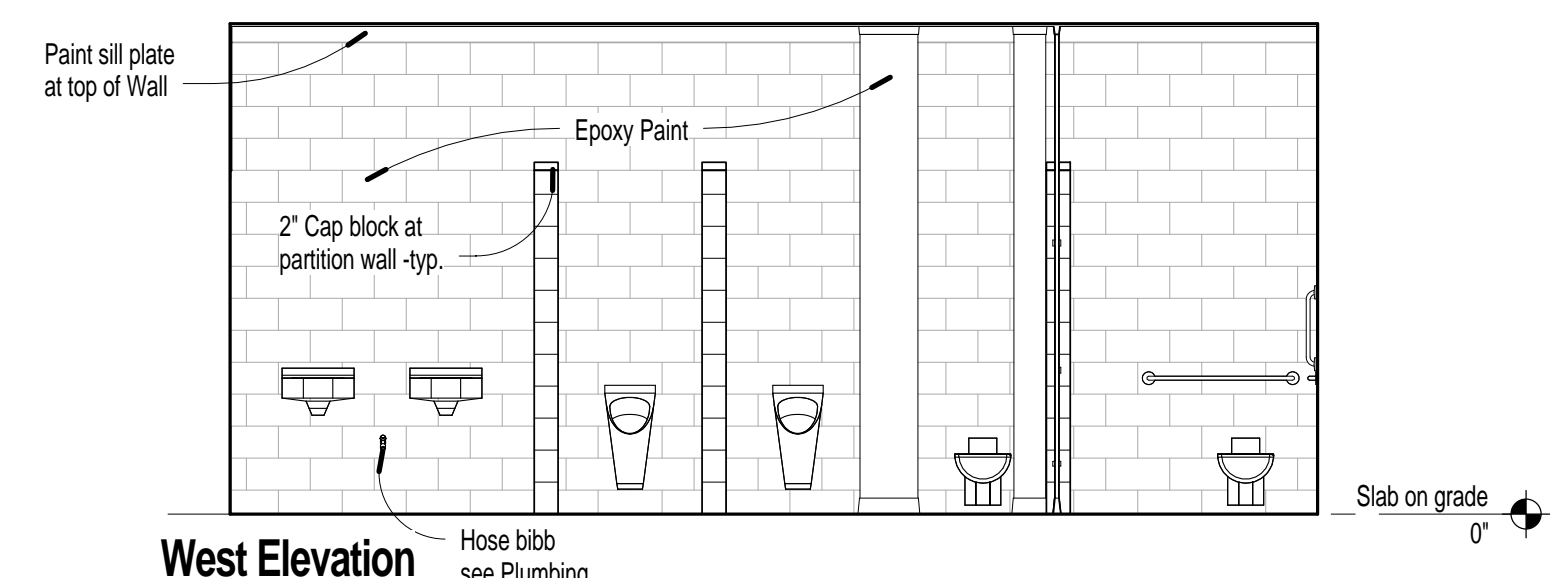
6 Womens Restroom 105  
1/4" = 1'-0"



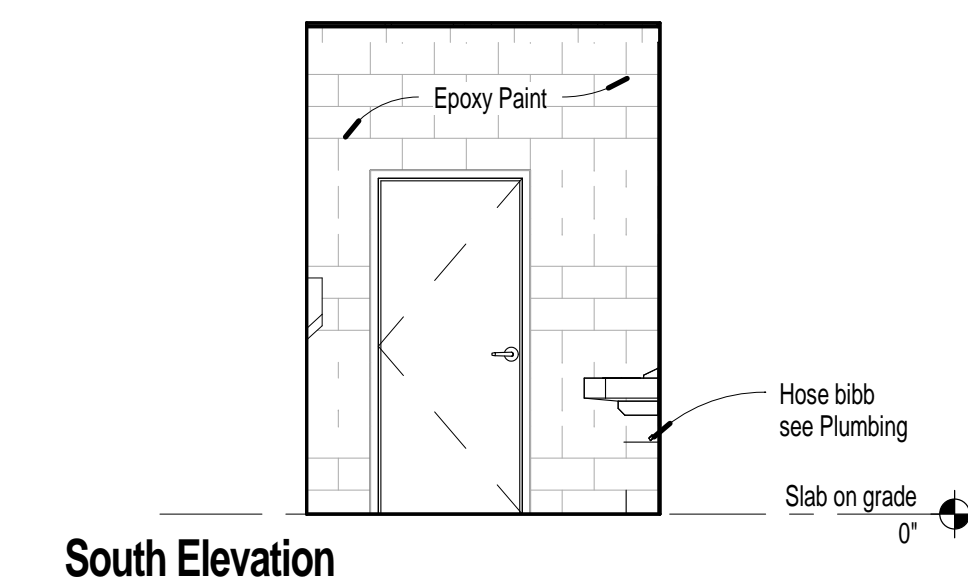
5 Womens Restroom 105  
1/4" = 1'-0"



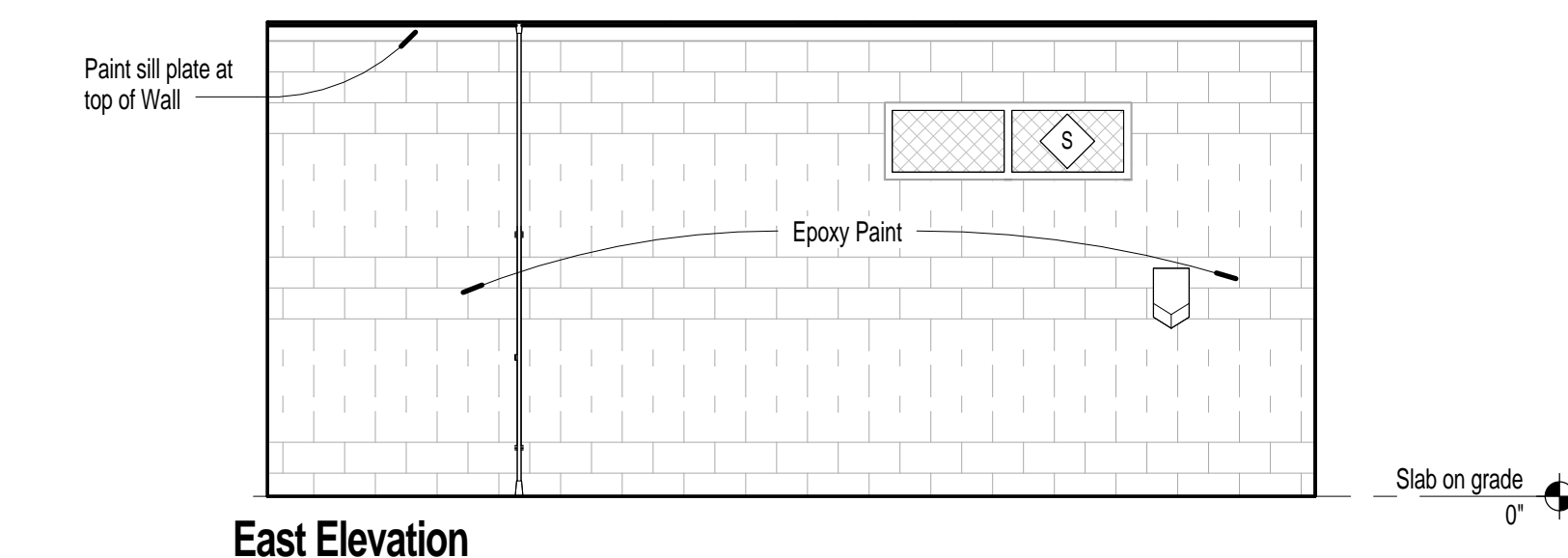
4 Mens Restroom 103  
1/4" = 1'-0"



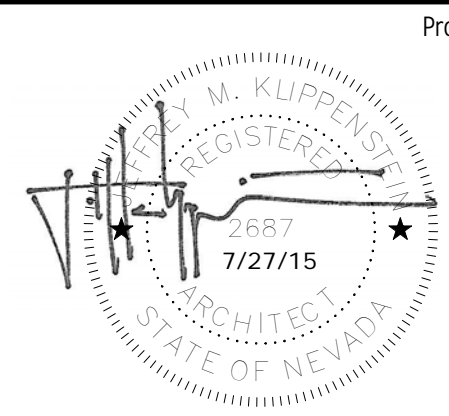
3 Mens Restroom 103  
1/4" = 1'-0"



2 Mens Restroom 103  
1/4" = 1'-0"



1 Mens Restroom 103  
1/4" = 1'-0"



Professional Seal    Date    Revision

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**Rock Park Restroom and Storage Building**  
1515 S. Rock Blvd.  
Sparks, NV 89502

Room Finish Schedule and Interior Elevations

July 27, 2015  
H+K Project No: 1504

**A701**



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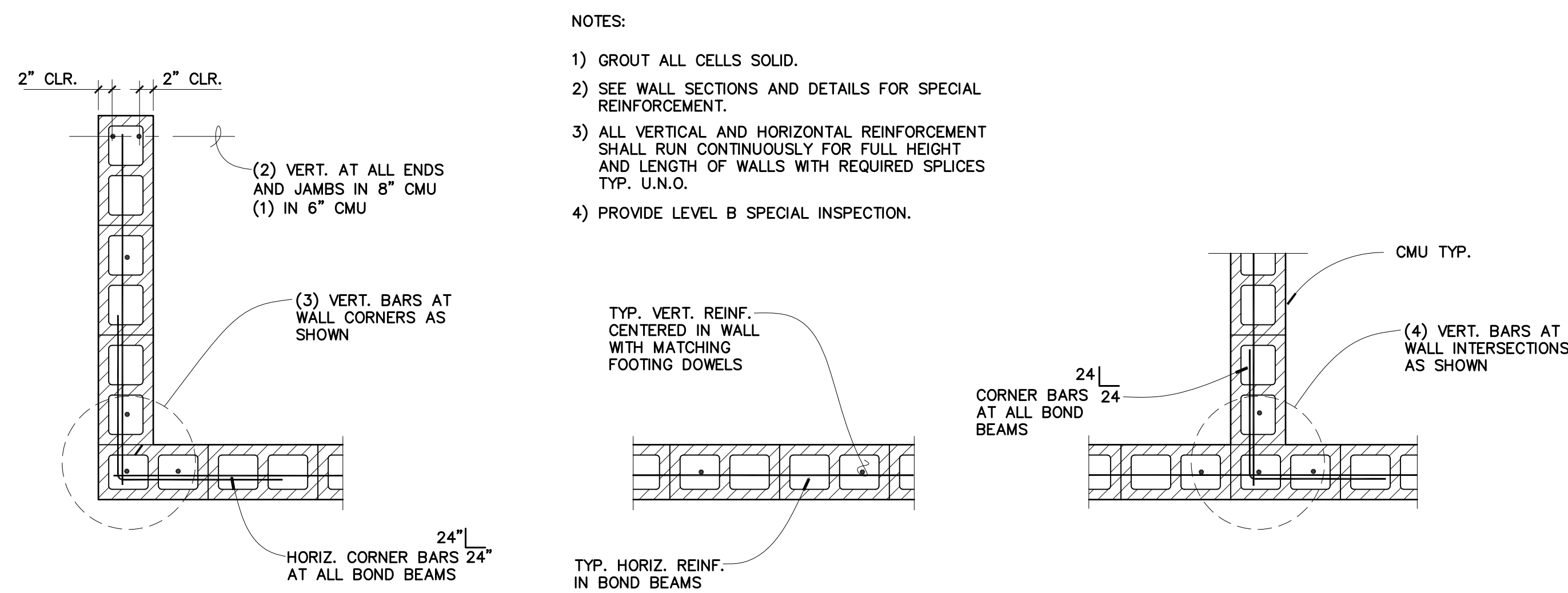








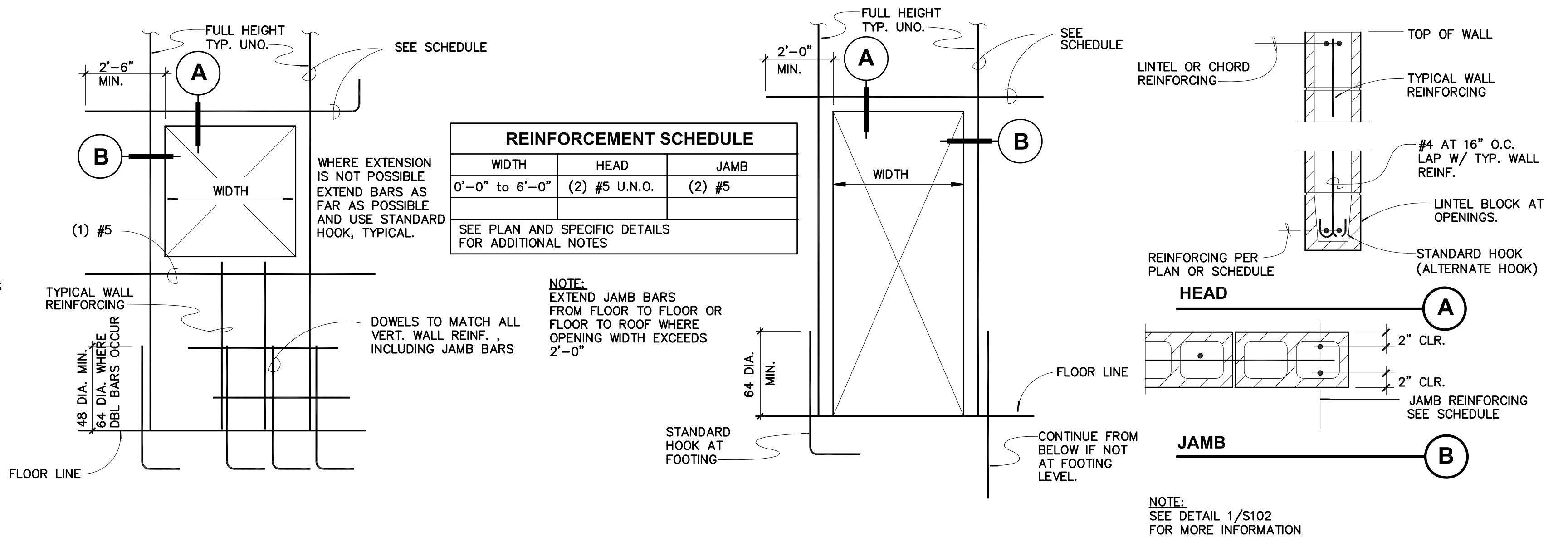




**TYPICAL CMU WALL SINGLE CURTAIN REINFORCEMENT**

N.T.S.

1  
S102



**HEAD AND JAMB REINFORCING AT 8\"/>**

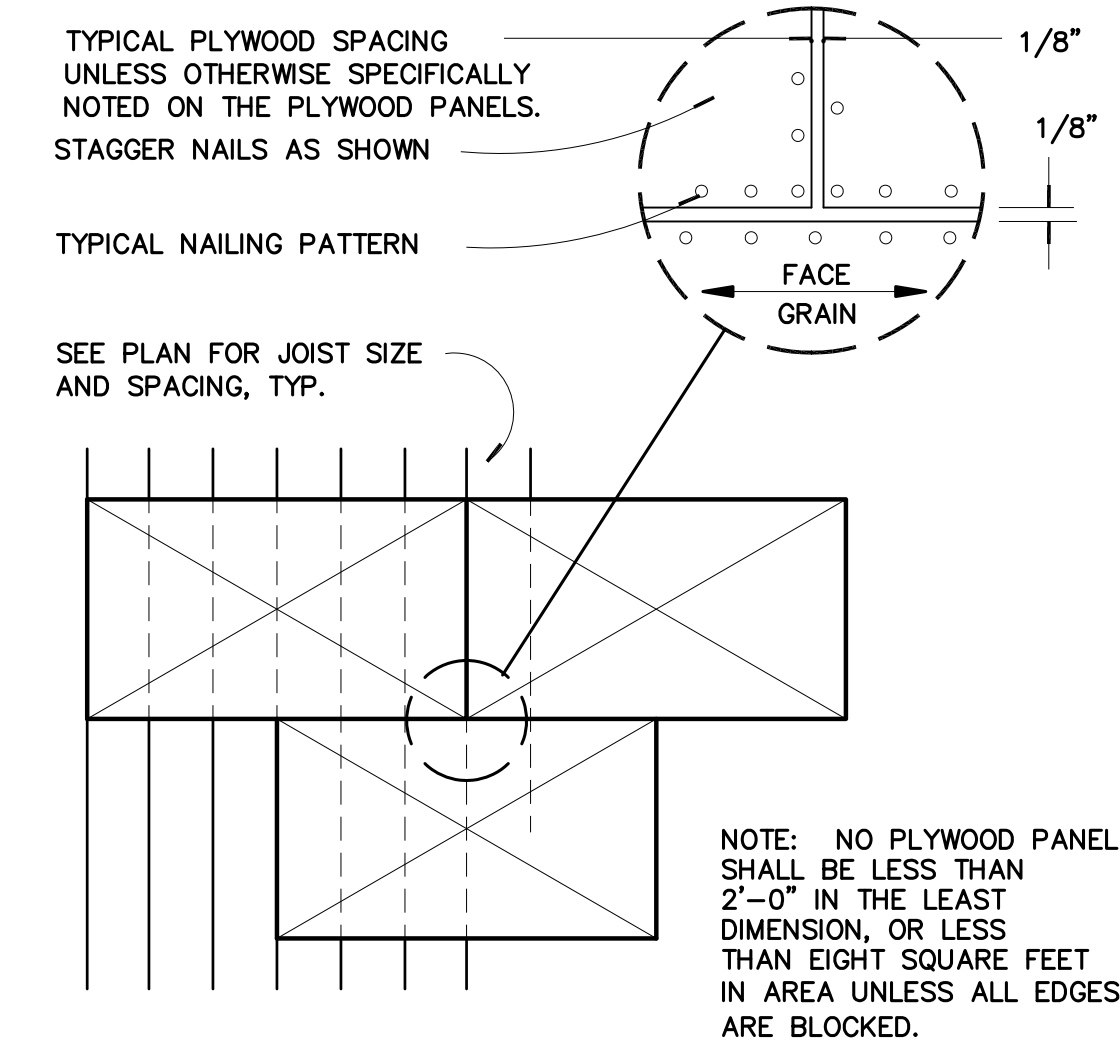
N.T.S.

2  
S102

IN ALL CASES, THE WALL REINFORCEMENT MUST TAKE PRECEDENCE OVER THE LOCATION OF THE CONDUITS, AND ADEQUATE ROOM IN THE CMU CELLS NEEDS TO BE MAINTAINED TO ALLOW FOR THE GROUT TO FLOW PROPERLY. IN GENERAL, THE FOLLOWING NOTES NEED TO BE FOLLOWED:

1. NO VERTICAL ELECTRICAL CONDUIT IS TO BE PLACED IN THE FIRST 8" OF WALL JAMB AT THE WALL OPENINGS, WHICH SHALL BE RESERVED FOR JAMB REINFORCEMENT ONLY. PLACE VERTICAL CONDUITS IN NEXT ADJACENT CELL.
2. WHERE POSSIBLE, VERTICAL CONDUIT SHALL BE PLACED IN NON REINFORCED CELLS.
3. NO MORE THAN ONE 3/4" DIA. VERT. CONDUIT SHALL BE PLACED IN A REINFORCED CELL AND:
  - a. THE CONDUIT IS TO BE LOCATED SUCH THAT GROUT WILL BE ABLE TO FLOW COMPLETELY AROUND THE REINFORCING BARS.
  - b. NO MORE THAN TWO 3/4" DIA. VERTICAL CONDUITS SHALL BE PLACED IN A NON-REINFORCED CELL UNLESS OTHER STRUCTURAL PROVISIONS ARE MADE.
4. IN HORIZONTAL BOND BEAMS, THE REBAR IS TO TAKE PRECEDENCE WHEREVER POSSIBLE, THE MASON SHALL PROVIDE ADDITIONAL ROWS OF BOND BEAM UNITS FOR HORIZONTAL CONDUITS TO RUN. IN NO CASE SHALL HORIZONTAL CONDUIT BE PLACED IN A BOND BEAM HAVING TWO HORIZONTAL BARS. ONLY IN CASES WHERE NO ALTERNATIVE IS AVAILABLE SHALL ONE CONDUIT BE PLACED IN THE SAME BOND BEAM AS ONE HORIZONTAL REBAR. NO MORE THAN TWO 3/4" DIA. MAX. SIZE CONDUITS BE PLACED IN A SINGLE BOND BEAM, PROVIDING THERE IS NO HORIZONTAL REBAR IN BOND BEAM.

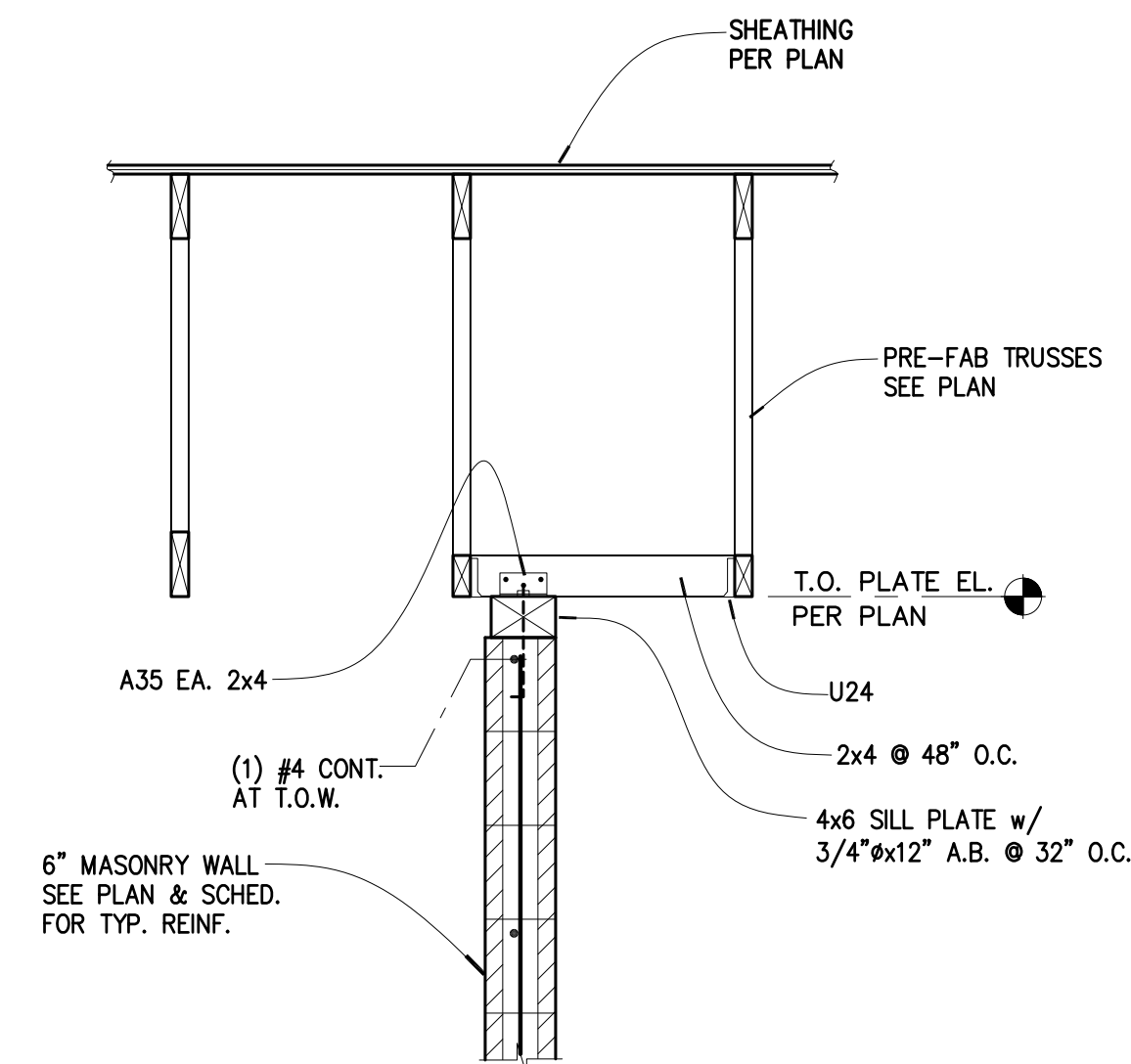
**CONDUITS IN CMU**



**TYPICAL PLYWOOD SPACING & NAILING**

N.T.S.

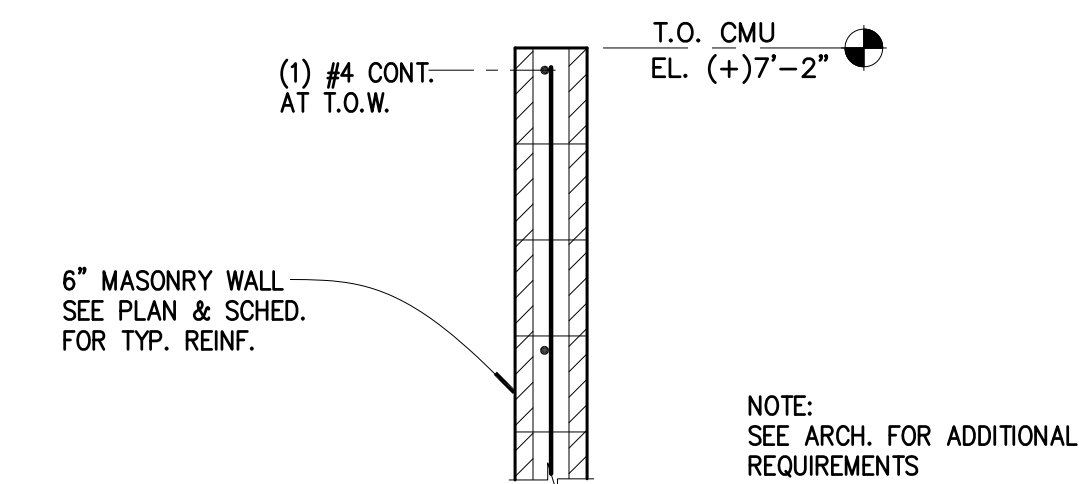
3  
S102



**WALL CONNECTION TO ROOF**

3/4" = 1'-0"

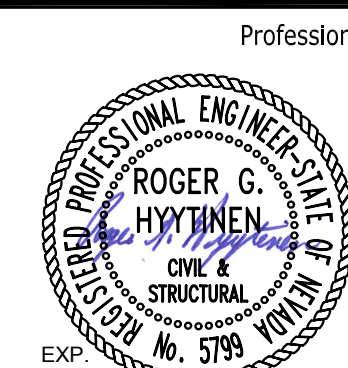
4  
S102



**TOP OF CMU PARTITION**

3/4" = 1'-0"

5  
S102



| Date | Revision |
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**Rock Park Restroom and Storage Building**  
 1515 S. Rock Blvd.  
 Sparks, Nevada 89502

Typical Details  
 July 27, 2015  
 H+K Project No.:1504

**S102**



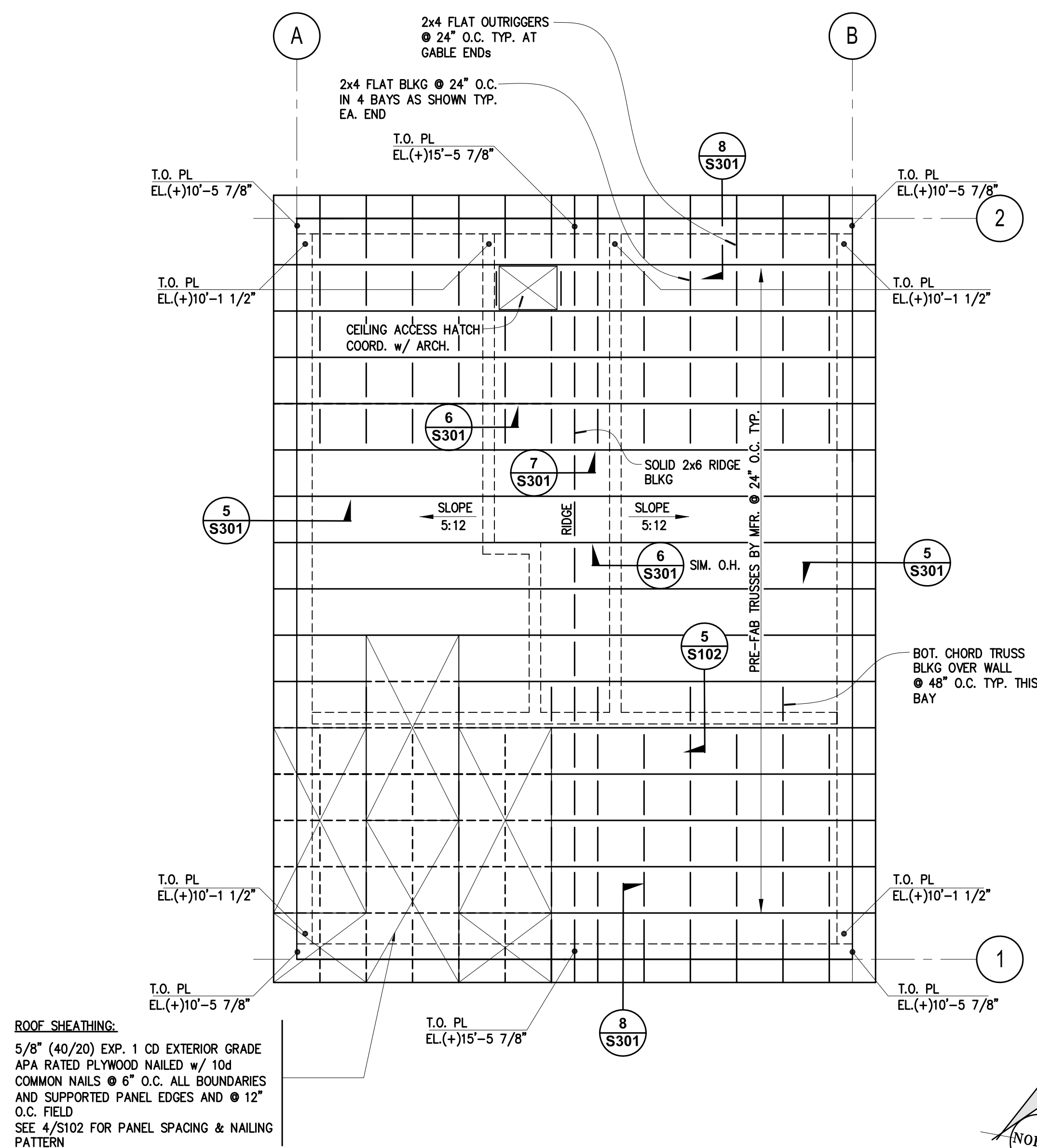
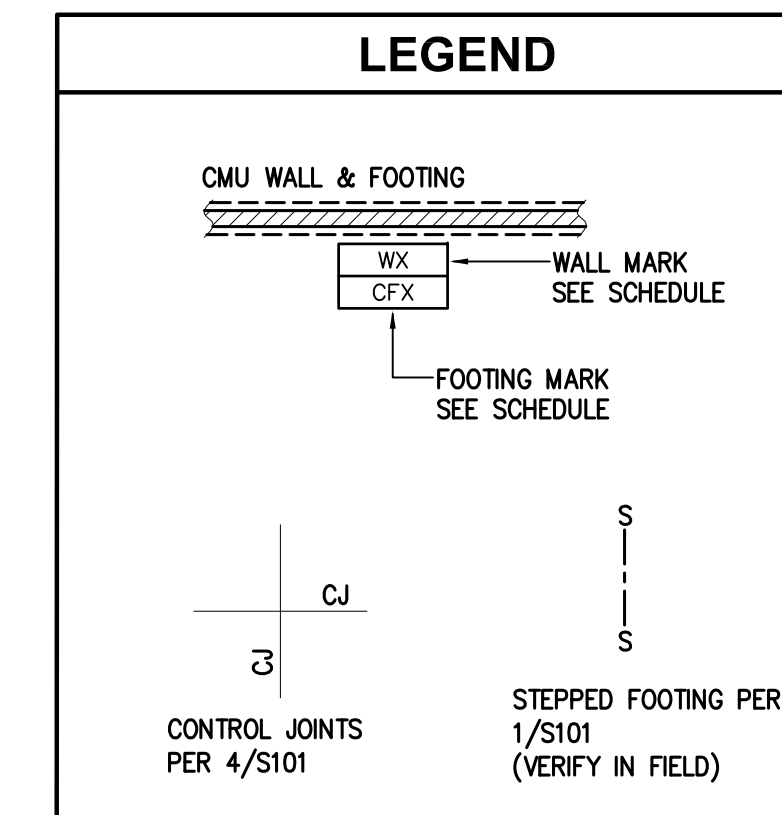


**NOTES**

- IT SHALL BE THE CONTRACTOR'S DIRECT RESPONSIBILITY TO COMPLY WITH TYPICAL DETAILS AND GENERAL NOTES AS DELINEATED OR DEFINED IN THE DRAWINGS OF THESE CONTRACT DOCUMENTS.
- DO NOT SCALE DRAWINGS. DRAWINGS ARE DIAGRAMMATIC AND MAY NOT SCALE ACCURATELY. ANY DIMENSIONAL OMISSIONS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.
- CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO CONSTRUCTION.
- CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AND NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES.
- SEE ARCHITECTURAL DRAWINGS FOR ALL CMU COURSING AND LAYOUT.
- SEE ARCHITECTURAL FOR ALL 6" CMU INTERIOR PARTITION LAYOUT DIMENSIONS.
- ROOF PLAN ONLY SHOWS FULL HEIGHT CMU WALLS. CMU PARTITIONS NOT SHOWN.

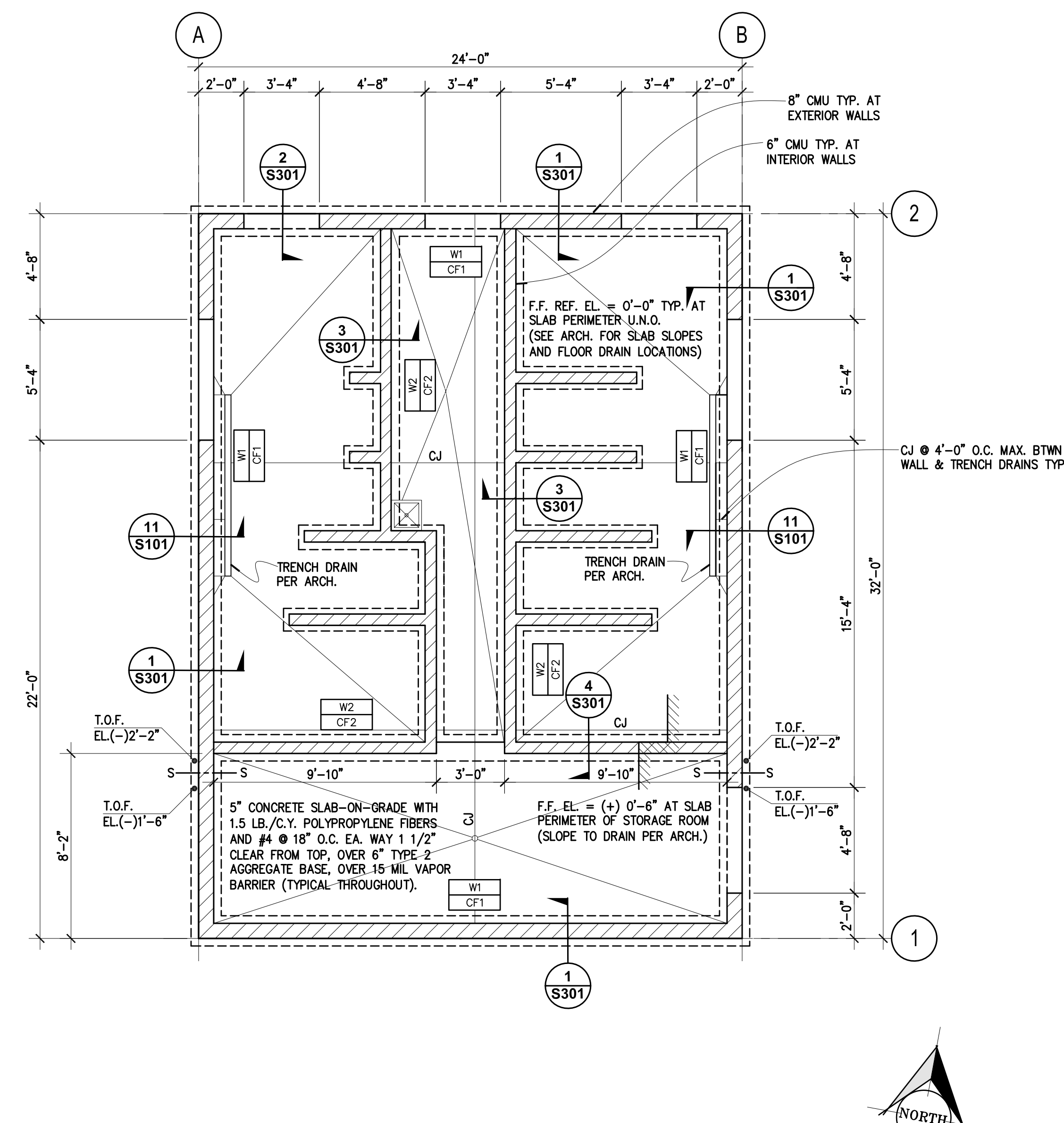
| MASONRY WALL SCHEDULE |               |               |               |         |
|-----------------------|---------------|---------------|---------------|---------|
| MARK                  | CMU THICKNESS | VERT. REINF.  | HORIZ. REINF. | REMARKS |
| W1                    | 8"            | #5 @ 24" O.C. | #5 @ 24" O.C. |         |
| W2                    | 6"            | #4 @ 24" O.C. | #4 @ 24" O.C. |         |

| CONTINUOUS FOOTING SCHEDULE |             |               |                          |
|-----------------------------|-------------|---------------|--------------------------|
| MARK                        | SIZE (WxD)  | REINFORCEMENT | REMARKS                  |
| CF1                         | 1'-4" x 12" | (3) #4 CONT.  | AT 8" CMU                |
| CF2                         | 1'-0" x 12" | (2) #4 CONT.  | THICKENED SLAB AT 6" CMU |

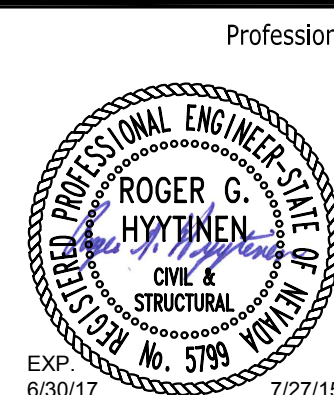


**ROOF SHEATHING:**  
 5/8" (40/20) EXP. 1 CD EXTERIOR GRADE APA RATED PLYWOOD NAILED W/ 10d COMMON NAILS @ 6" O.C. ALL BOUNDARIES AND SUPPORTED PANEL EDGES AND @ 12" O.C. FIELD  
 SEE 4/S102 FOR PANEL SPACING & NAILING PATTERN

**ROOF FRAMING PLAN**  
 1/4"=1'-0"



**FOUNDATION/FLOOR PLAN**  
 1/4"=1'-0"



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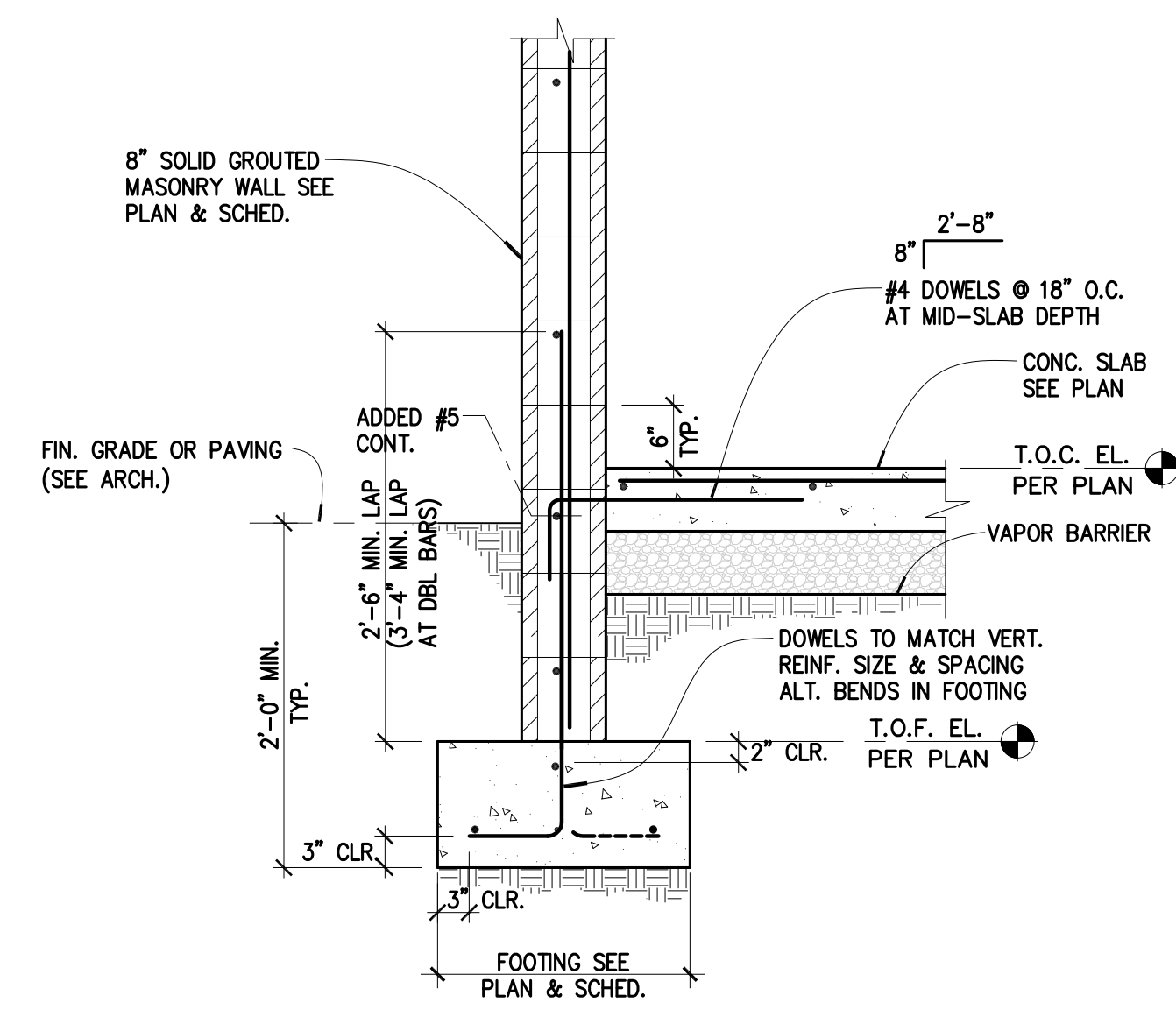
Foundation/Floor Plan  
 Roof Framing Plan

July 27, 2015  
 H+K Project No.:1504

**S201**

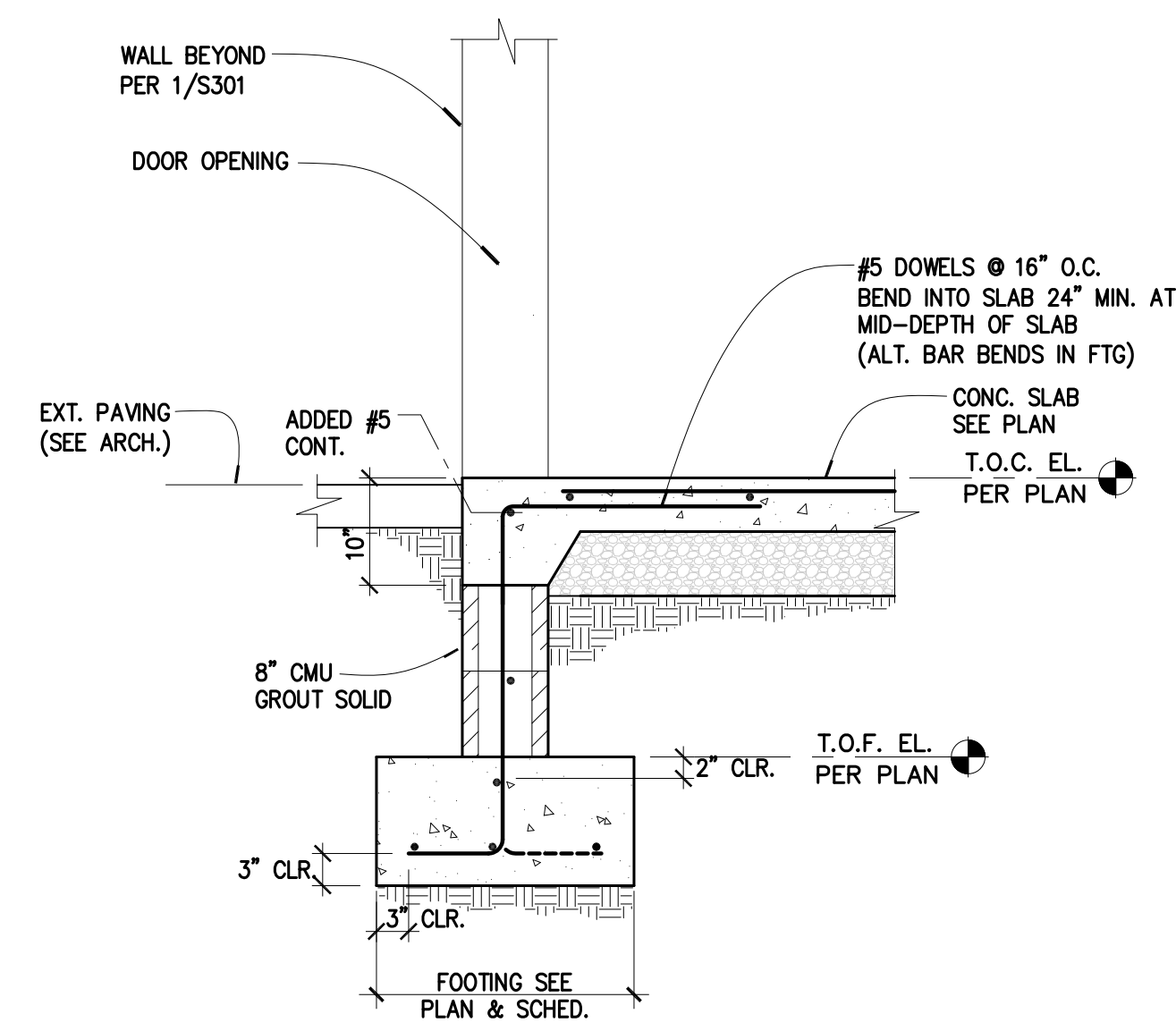






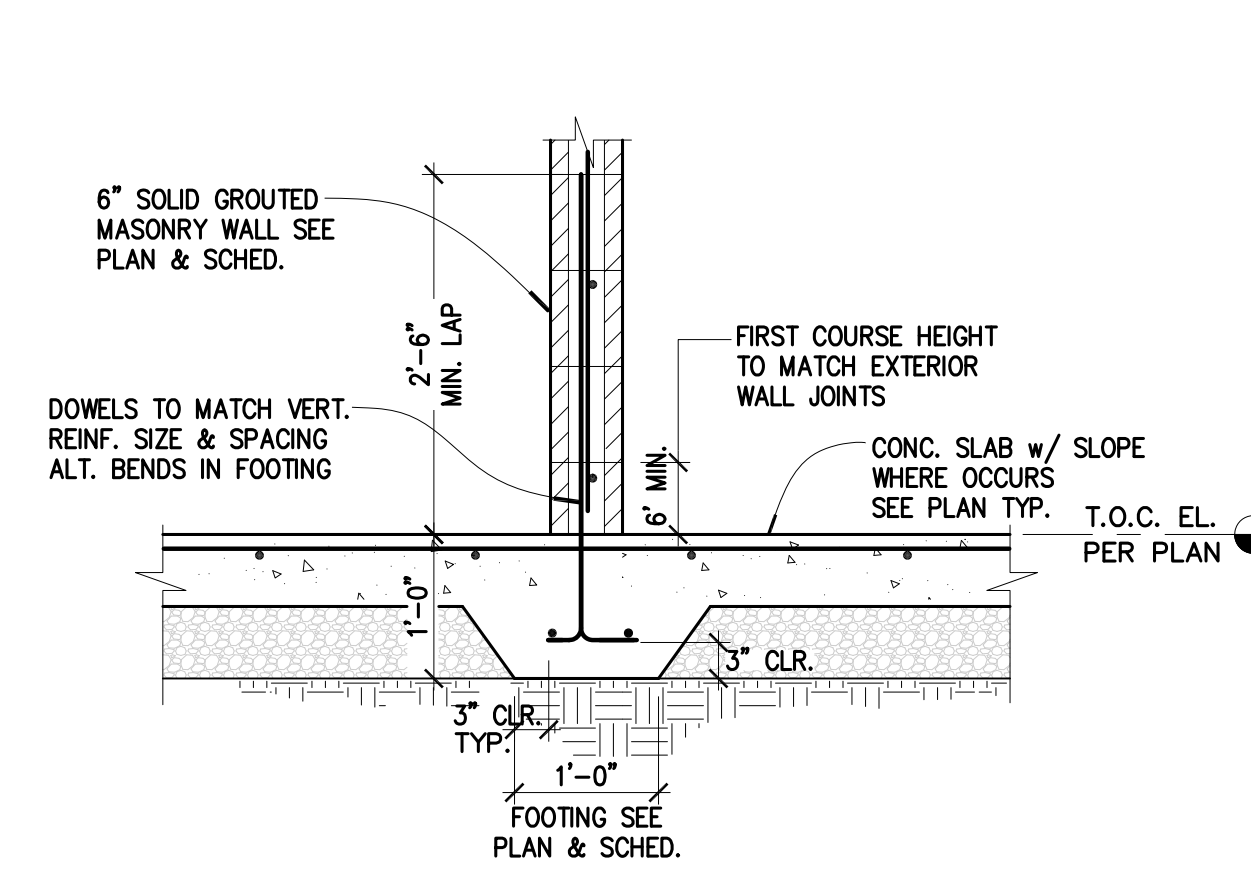
**EXTERIOR WALL**  
3/4" = 1'-0"

1  
S301



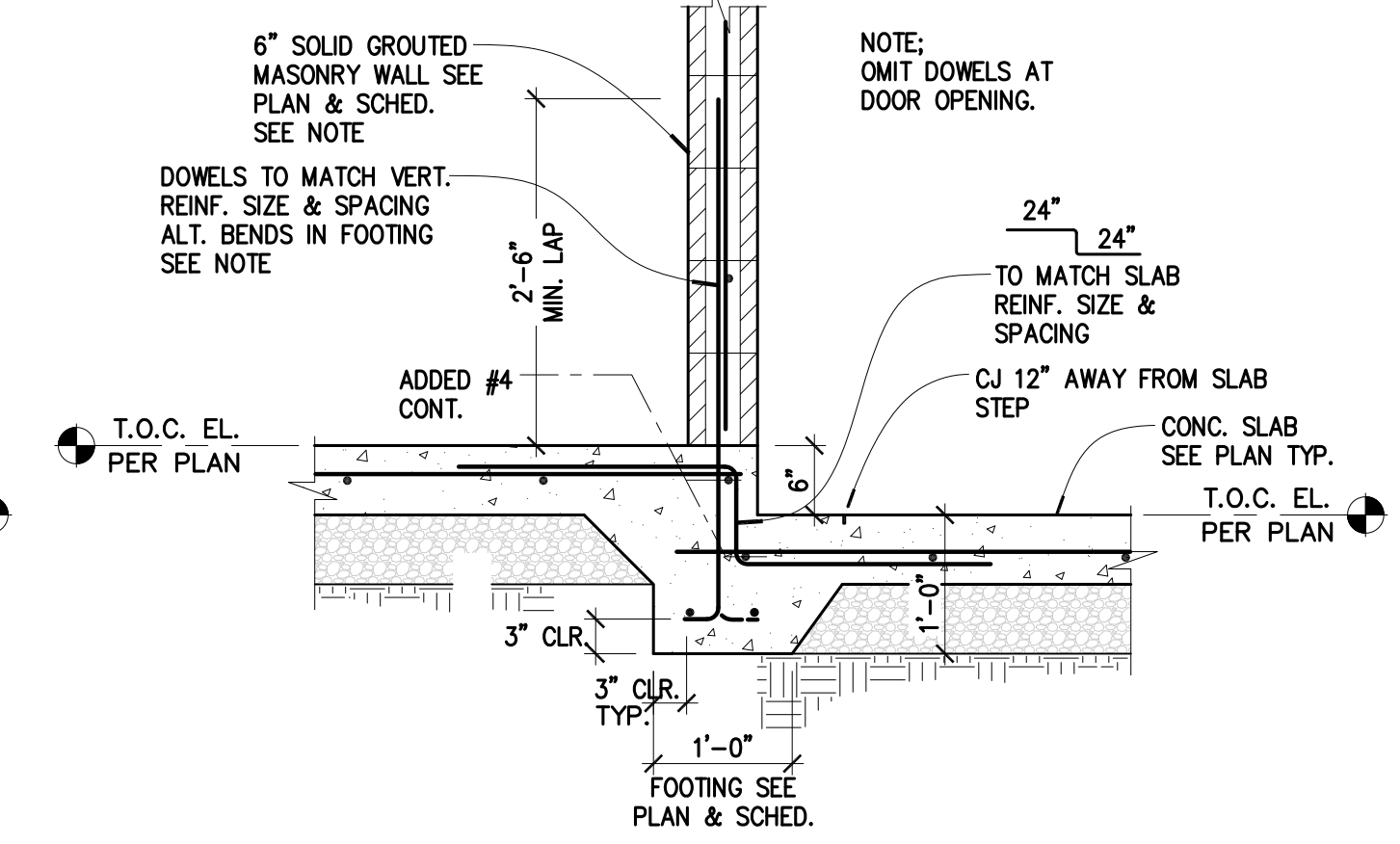
**EXTERIOR WALL AT DOOR OPENING**  
3/4" = 1'-0"

2  
S301



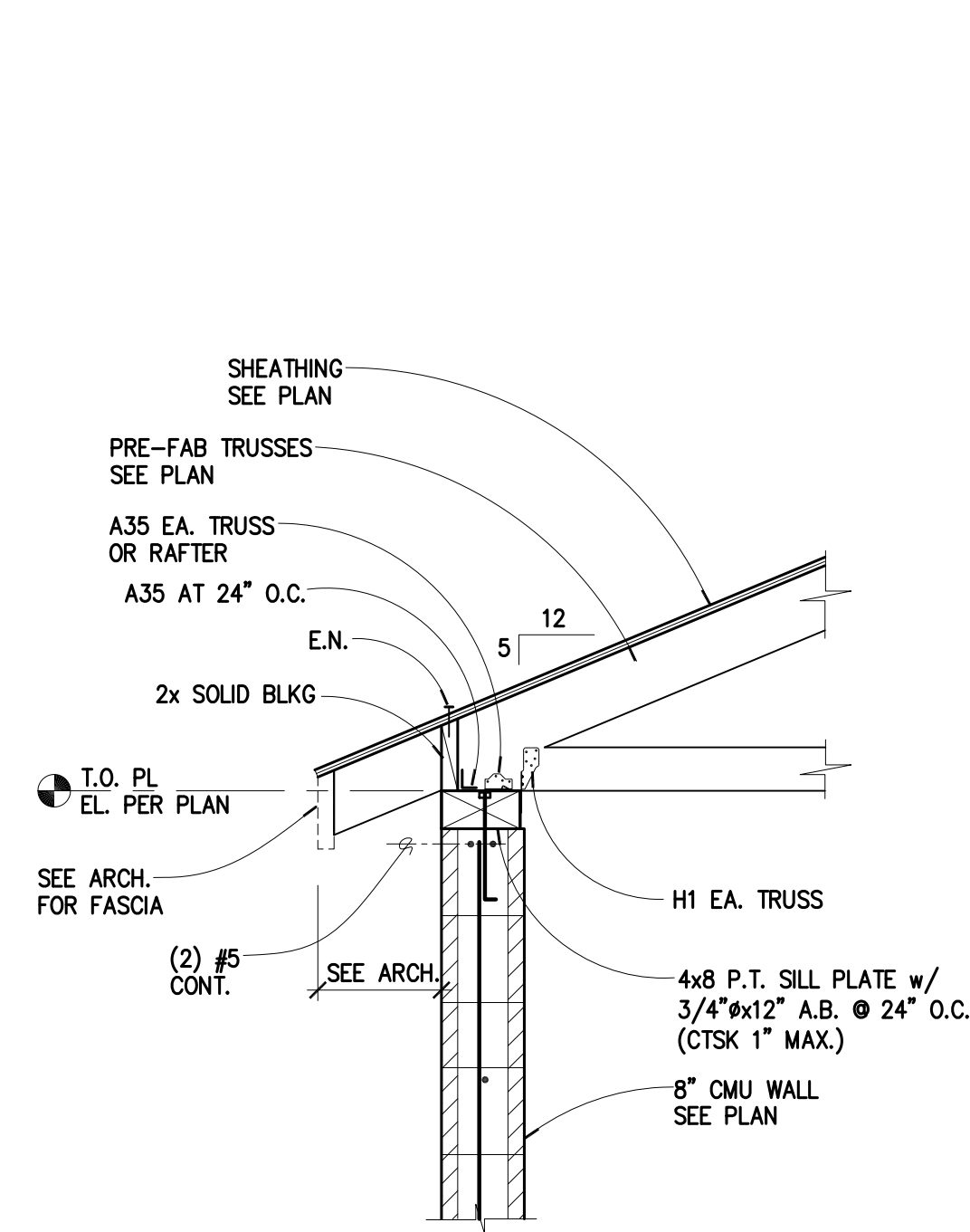
**INTERIOR WALL**  
3/4" = 1'-0"

3  
S301



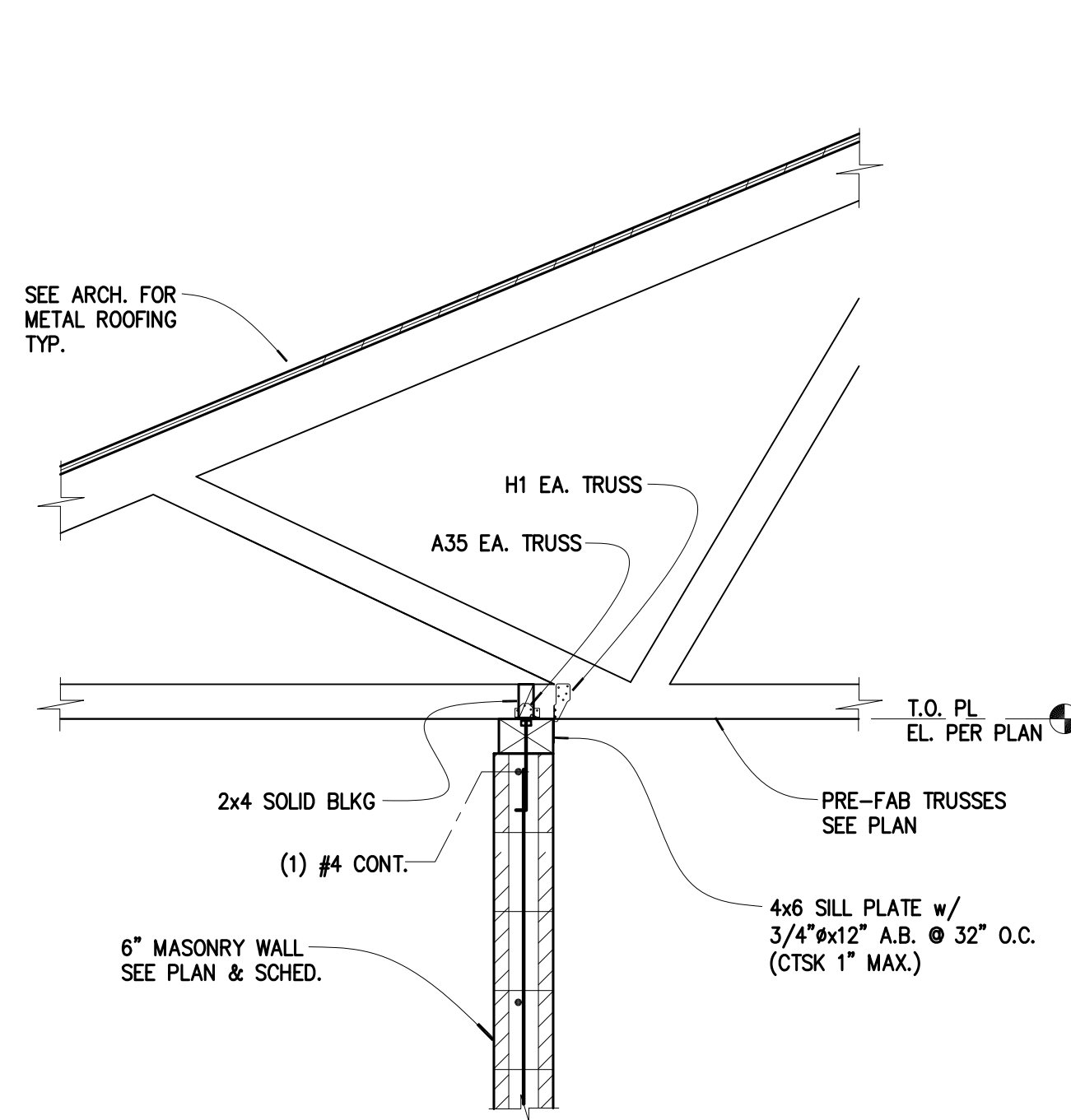
**INTERIOR WALL AT STEP**  
3/4" = 1'-0"

4  
S301



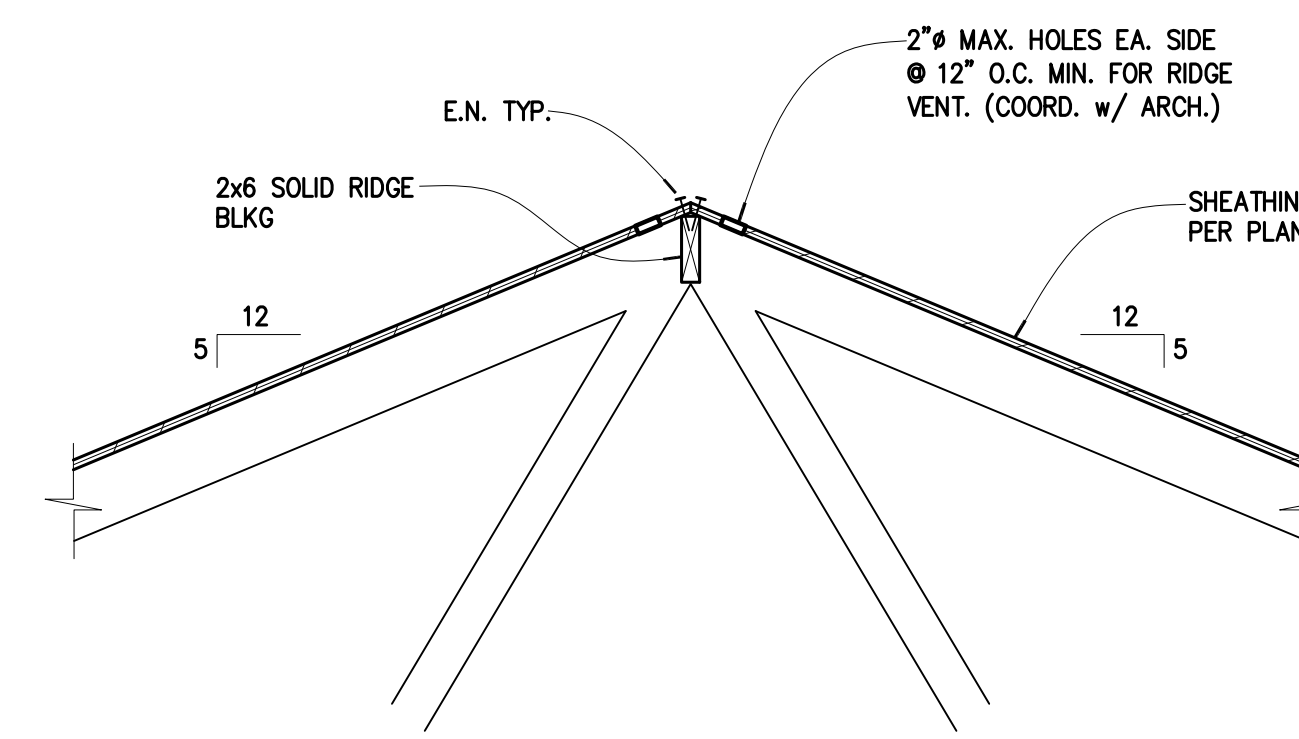
**EAVE CONNECTION TO WALL**  
3/4" = 1'-0"

5  
S301



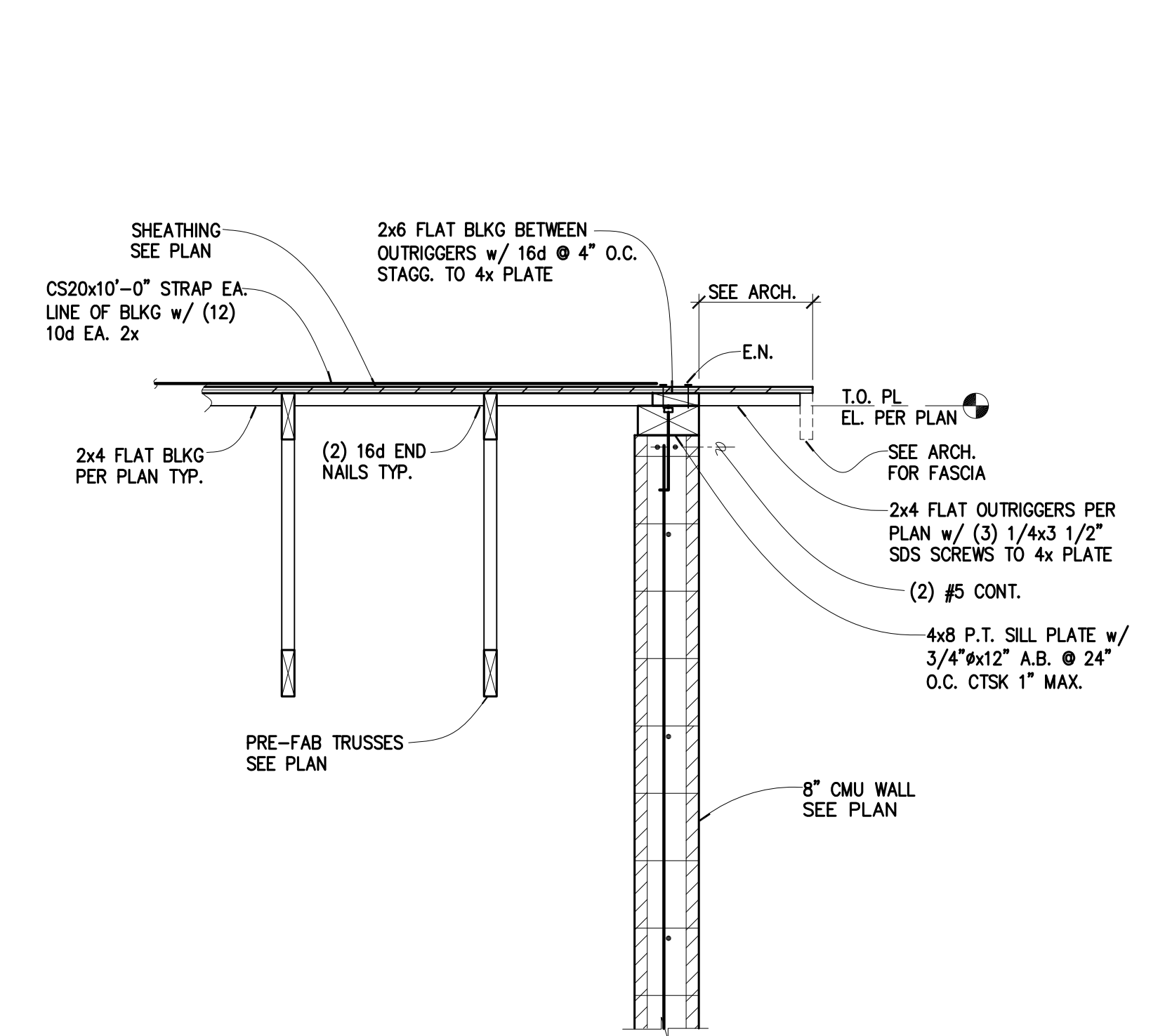
**TRUSS OVER INTERIOR CMU WALL**  
3/4" = 1'-0"

6  
S301



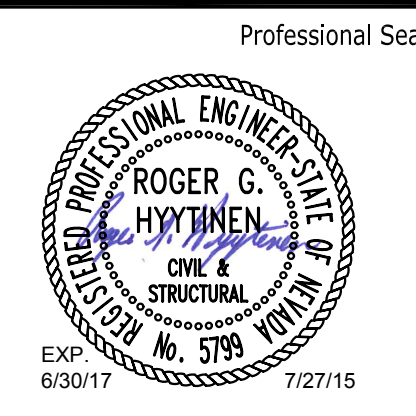
**RIDGE SECTION AT VENTILATOR**  
3/4" = 1'-0"

7  
S301



**GABLE CONNECTION TO WALL**  
3/4" = 1'-0"

8  
S301



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Details  
July 27, 2015  
H+K Project No.:1504  
**S301**





## PLUMBING FIXTURES

**WC-1** WATER CLOSET (ADA)  
WILLOUGHBY INDUSTRIES MODEL #ETW-1490-OF WALL MOUNTED, STAINLESS STEEL BLOWOUT WATER CLOSET. MOUNT AT ADA HEIGHT WHERE APPLICABLE. SEE ARCHITECTURAL ELEVATIONS.

**OPTIONS:**  
1. BACK SPUD  
2. HIGH POLISH SEAT (WHITE)  
3. LOW FLOW, 1.6 GPF  
4. CARRIER

FURNISH WITH SLOAN #940-1.6 'ROYAL' ADA CONCEALED PUSHBUTTON FLUSHMETER WITH TRAP PRIMER CONNECTIONS (WHERE REQ'D).

**U-1** URINAL (ADA)  
WILLOUGHBY INDUSTRIES MODEL #ASUW-1314-HEU-BS STAINLESS STEEL CONTURED HIGH EFFICIENCY WALL MOUNT URINAL WITH BACK INLET AND STAINLESS STEEL P-TRAP. MOUNT AT ADA HEIGHT. SEE ARCHITECTURAL ELEVATIONS. FURNISH WITH SLOAN #995 (1.0 GPF) 'ROYAL' ADA CONCEALED PUSH BUTTON FLUSHMETER.

**L-1** LAVATORY (ADA)  
WILLOUGHBY INDUSTRIES MODEL #HS-1013-46-HC WALL MOUNTED STAINLESS STEEL 18" WIDE HANDICAP ACCESSIBLE LAVATORY. 0.5 GPM FAUCET TO BE METERING FAUCET AND SET TO NOT DELIVER MORE THAN .25 GALLONS PER USE. MOUNT AT ADA HEIGHT, SEE ARCHITECTURAL ELEVATIONS.

**OPTIONS:**  
1. DECK MOUNTED FAUCET  
2. SINGLE TEMP PNEUMATIC METERING VALVE WITH ADA PUSHBUTTON  
3. ELBOW WASTE WITH WALL SLEEVE  
4. MCGUIRE ANGLE STOPS  
5. CHROME PLATED P-TRAP

**SS-1** SERVICE SINK  
WILLOUGHBY MODEL #CWMS-242412 16. GA. 304 STAINLESS STEEL SERVICE SINK FURNISH WITH HOSE BIBB (HB-3)

**DF-1** DRINKING FOUNTAIN  
ELKAY MODEL #LK4430BF1 TRI-LEVEL BOTTLE FILLING STATION WITH TWO FOUNTAIN BASINS. ADA COMPLIANT WITH DUAL-VALVE CONTROL ASSEMBLY.

**ID-1** TRENCH DRAIN  
ZURN MODEL #ZA880-300A WIDE REVEAL TRENCH DRAIN SYSTEM.

**HB-1** HOSE BIBB (INTERIOR)  
WOODFORD MODEL 24P WITH VACUUM BREAKER AND LOOSE KEY HANDLE.

**HB-2** HOSE BIBB (EXTERIOR)  
WOODFORD FREEZE PROOF MODEL 65 WITH VACUUM BREAKER AND LOOSE KEY HANDLE.

**HB-3** HOSE BIBB (EXPOSED LINE)  
WOODFORD #24P

**WHA-1** WATER HAMMER ARRESTOR  
SIOUX CHIEF "HYDRA-RESTER" PISTON STYLE WATER HAMMER ARRESTOR PDI STANDARD AS NOTED ON DRAWINGS.

## MECHANICAL SCHEDULE

**EF 1** EXHAUST FAN  
GREENHECK MODEL #CSP-A700 INLINE CABINET FAN. 500 CFM 0.5 S.P. 115V/60/1PH OPER. WGT. 34 LBS. PLUG TYPE DISCONNECT. UL/cUL 507 LISTED.

GALVANIZED STEEL HOUSING. SOUND ABSORBING INSULATION. OUTLET DUCT COLLAR WITH INTEGRAL SPRING LOADED BACK DRAFT DAMPER.

**H 1** HEATER (BASEBOARD)  
QMARK MODEL #QMKC2513W 120V 750W 2560 BTUH 6.3AMPS LENGTH:3'-0" OPER. WGT 9.0 LBS ELECTRIC BASEBOARD HEATER. INTEGRAL THERMOSTAT. MOUNTING BRACKET.

## PLUMBING ROUGH-IN SCHEDULE

| ABBR. | FIXTURE             | ROUGH-IN SIZES (INCHES) |     |       |               |       | COMMENTS  |
|-------|---------------------|-------------------------|-----|-------|---------------|-------|---|
|       |                     | HW                      | CW  | V     | TRAP          | S/W   |   |
| WC-1  | WATER CLOSET        | -                       | 1   | 2     | INTEG.        | 4     | STAINLESS STEEL, WALL HUNG, CONCEALED FLUSH VALVE |
| U-1   | URINAL              | -                       | 3/4 | 2     | INTEG.        | 2     | STAINLESS STEEL, WALL HUNG, CONCEALED FLUSH VALVE |
| L-1   | LAVATORY            | -                       | 1/2 | 2     | 2             | 2     | STAINLESS STEEL, WALL HUNG, DECK MOUNT SPOUT      |
| SS-1  | SERVICE SINK        | -                       | 1/2 | 2     | 3             | 3     | FLOOR MOUNTED                                     |
| DF-1  | DRINKING FOUNTAIN   | -                       | 1/2 | 1-1/2 | 1-1/4 x 1-1/2 | 1-1/2 | BARRIER FREE HI-LO                                |
| TD-1  | TRENCH DRAIN        | -                       | -   | 2     | 2             | 2     |   |
| HB-1  | HOSE BIBB           | -                       | 3/4 | -     | -             | -     | INTERIOR  |
| HB-2  | HOSE BIBB           | -                       | 3/4 | -     | -             | -     | EXTERIOR  |
| HB-3  | HOSE BIBB (EXPOSED) | -                       | 3/4 | -     | -             | -     | HOSE BIBB ON EXPOSED INTERIOR PIPING              |

## LEGEND

ALL ITEMS SHOWN IN THIS LEGEND ARE NOT NECESSARILY USED ON THE DRAWINGS.

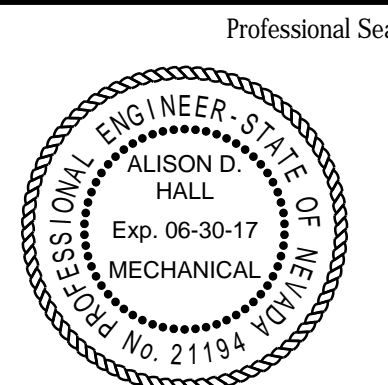
| ABBREVIATION   | SYMBOL | DESCRIPTION                              |
|----------------|--------|--|
| EXH            |        | EXHAUST AIR                              |
| FLEX.D.        |        | FLEXIBLE DUCT                            |
| MVD            |        | MANUAL VOLUME DAMPER                     |
| AD             |        | ACCESS DOOR                              |
| CFM            |        | CUBIC FEET PER MINUTE                    |
| RD             |        | ROUND                                    |
| REF            |        | REFERENCE                                |
| FBO            |        | FURNISHED BY OTHERS                      |
| S OR W         |        | SOIL, WASTE OR SEWER BELOW GRADE         |
| S OR W         |        | SOIL, WASTE OR SEWER ABOVE GRADE         |
| SD             |        | STORM DRAIN BELOW GRADE                  |
| V              |        | VENT                                     |
| CW             |        | COLD WATER                               |
| D              |        | DRAIN                                    |
| GV             |        | GATE VALVE                               |
| TH.            |        | THERMOMETER                              |
| P & TR         |        | PRESSURE & TEMPERATURE RELIEF VALVE      |
| PG             |        | PRESSURE GAUGE WITH GAUGE COCK           |
| FD             |        | FLOOR DRAIN                              |
| FS             |        | FLOOR SINK                               |
| F, GCO OR COTG |        | FLOOR, GRADE CLEANOUT, CLEANOUT TO GRADE |
| HB             |        | HOSE BIBB                                |
| WCO            |        | WALL CLEANOUT                            |
| VTR            |        | VENT THRU ROOF                           |
| TYP.           |        | TYPICAL                                  |
| REF.           |        | REFERENCE                                |

## GENERAL NOTES

- A BOOK SPECIFICATION HAS BEEN PROVIDED FOR THIS PROJECT WHICH IS AN INTEGRAL PART OF THE CONSTRUCTION DOCUMENTS.
- COORDINATE EXACT LOCATION OF EQUIPMENT AND OF PENETRATIONS THROUGH ROOF, FLOOR AND WALLS WITH STRUCTURAL DRAWINGS PRIOR TO ANY ROUGH-IN.
- COORDINATE THE ROUTING OF DUCTWORK WITH PLUMBING AND ELECTRICAL SECTIONS PRIOR TO BEGINNING WORK.
- SEE REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL GRILLES AND DIFFUSERS IN CEILING.
- PROVIDE MANUAL VOLUME DAMPER AT EACH BRANCH DUCT TAKEOFF. FLEXIBLE DUCT LENGTH SHALL NOT EXCEED 5'-0".
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
- SEE ARCHITECTURAL DRAWINGS FOR LOUVER LOCATIONS AND MOUNTING HEIGHTS.
- DUCT SIZES SHOWN ARE NET INSIDE DIMENSIONS.
- USE FLEXIBLE DUCT CONNECTION TO CONNECT DUCTWORK TO ALL EQUIPMENT.
- VERIFY EXACT LOCATION, INVERT ELEVATION, SIZES, AND POINT OF CONNECTION OF ALL EXISTING UTILITIES PRIOR TO ROUGH-IN OF ANY PIPING.
- SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES TO MEET ADA REQUIREMENTS.
- HANDI-CAP WATER CLOSETS SHALL HAVE WATER ROUGH-IN LOCATED TO PROVIDE FLUSH HANDLE FACING THE WIDE SIDE OF STALL.
- INSULATE P-TRAP AND HOT WATER SUPPLY ON ALL LAVATORIES AND SINKS WITH SKAL + GARD.

## DRAWING INDEX

MP001 - MECHANICAL & PLUMBING FIXTURES, EQUIPMENT, AND NOTES  
MP101 - MECHANICAL & PLUMBING PLANS  
MP601 - MECHANICAL & PLUMBING DETAILS



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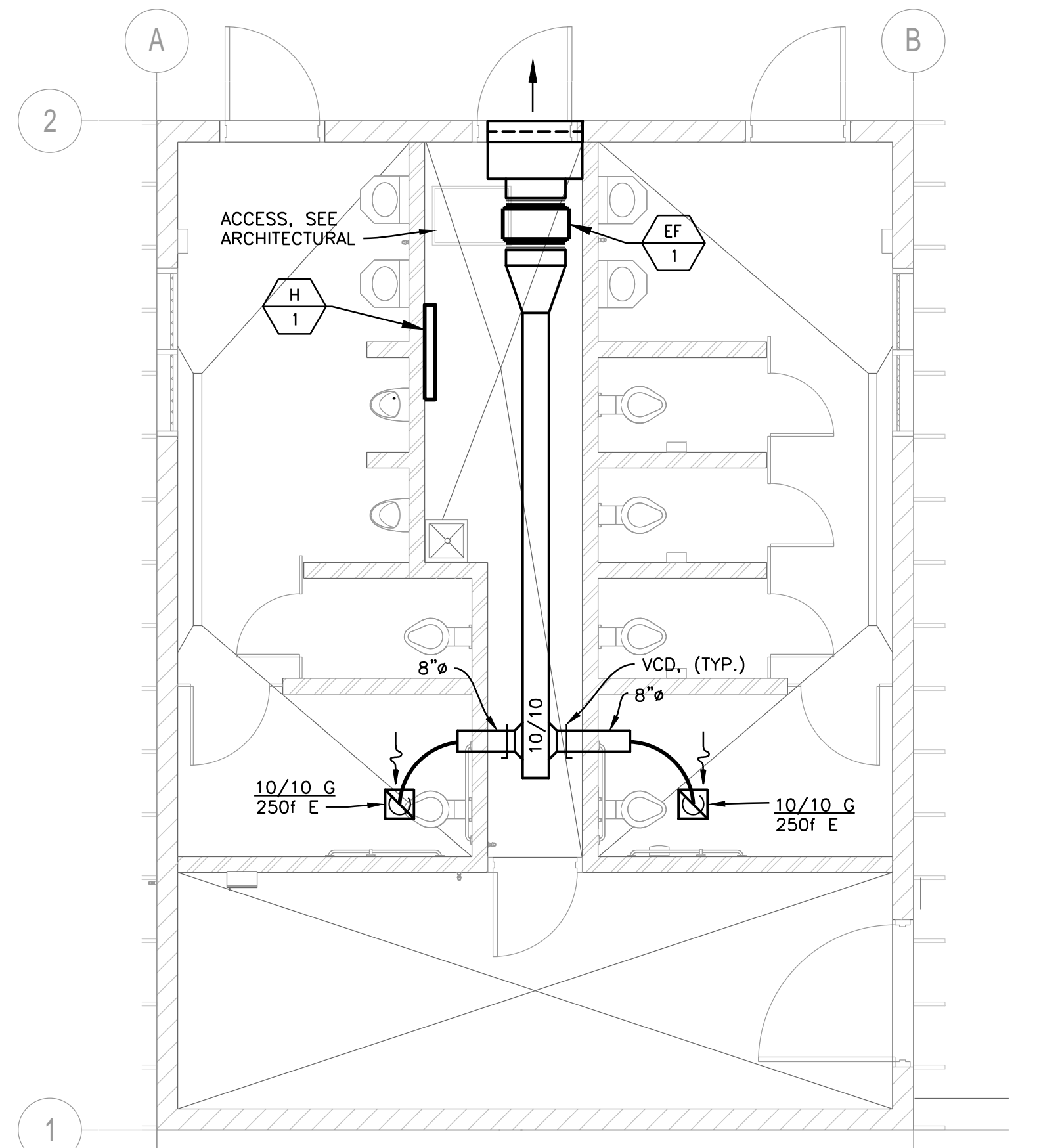
MECHANICAL &  
PLUMBING FIXTURES,  
EQUIPMENT, AND  
NOTES

July 27, 2015  
H+K Project No: 1504

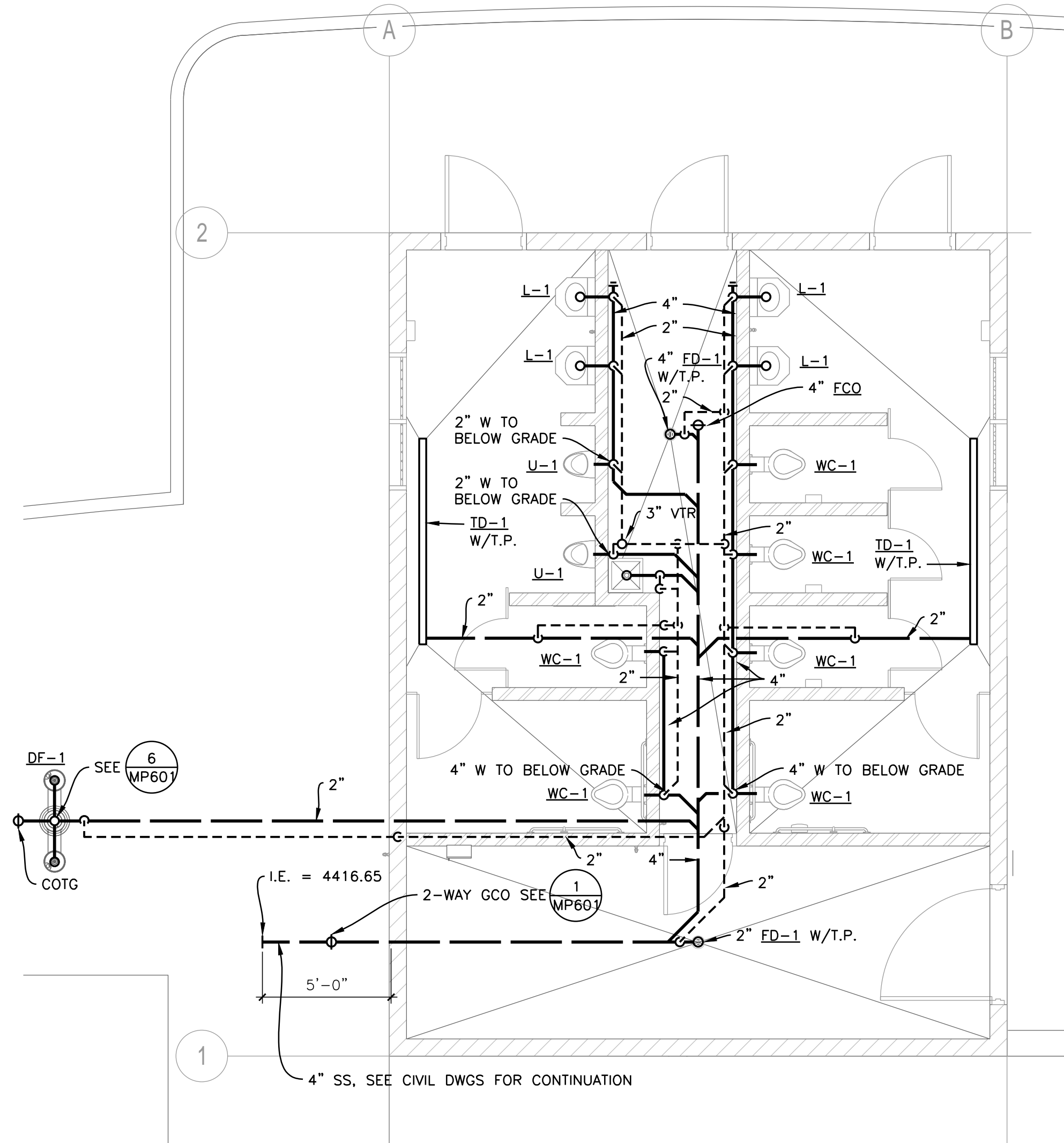
**MPO01**



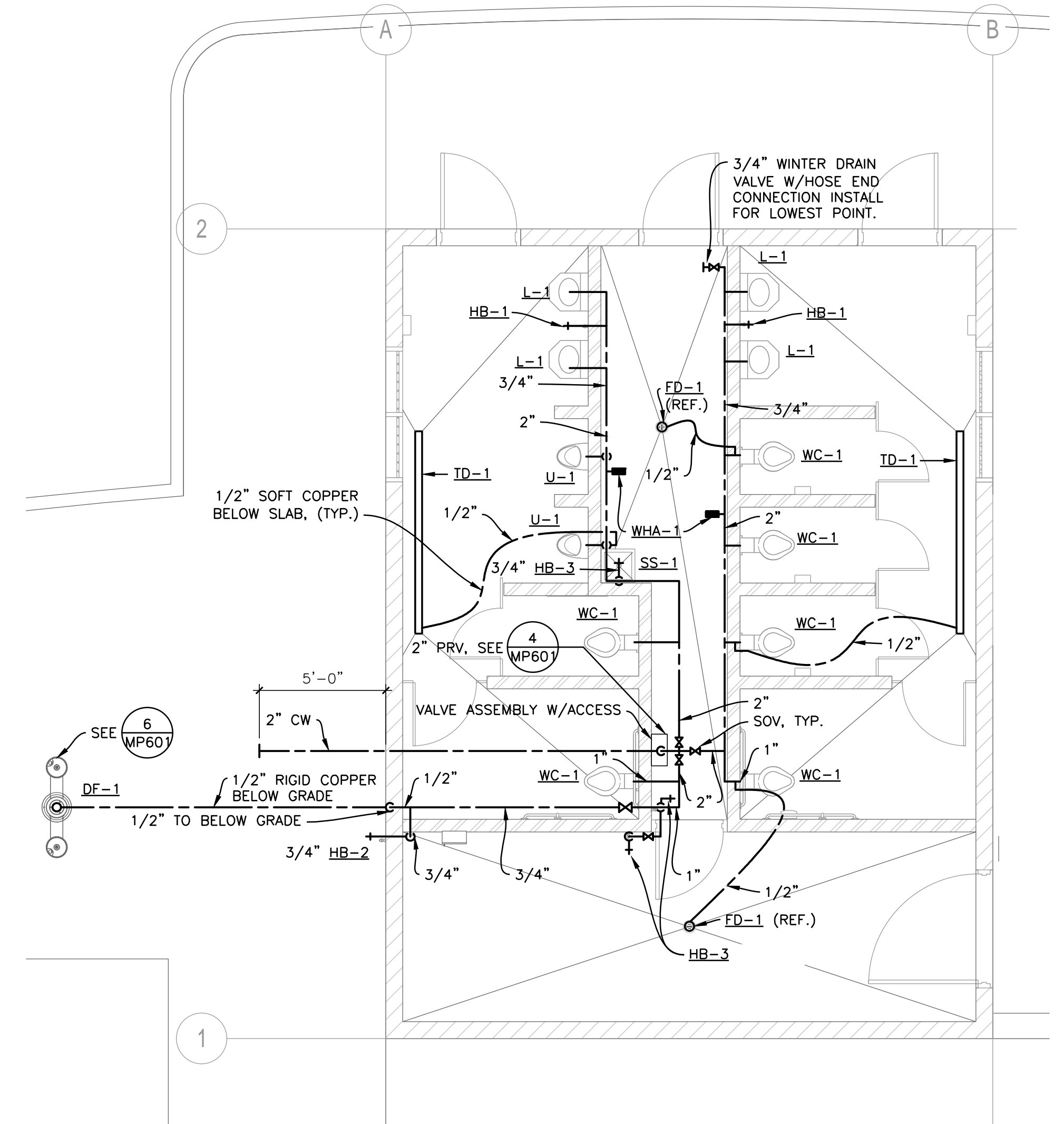




**MECHANICAL PLAN**  
 SCALE: 1/4" = 1'-0"  
 A  
 MP101

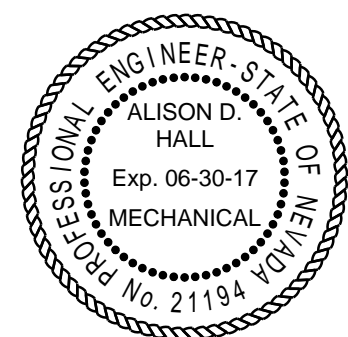


**PLUMBING PLAN - WASTE AND VENT**  
 SCALE: 1/4" = 1'-0"  
 B  
 MP101



**PLUMBING PLAN - DOMESTIC WATER**  
 SCALE: 1/4" = 1'-0"  
 C  
 MP101

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**Rock Park  
 Restroom and Storage Building**

1515 S. Rock Blvd.  
 Sparks, NV 89502

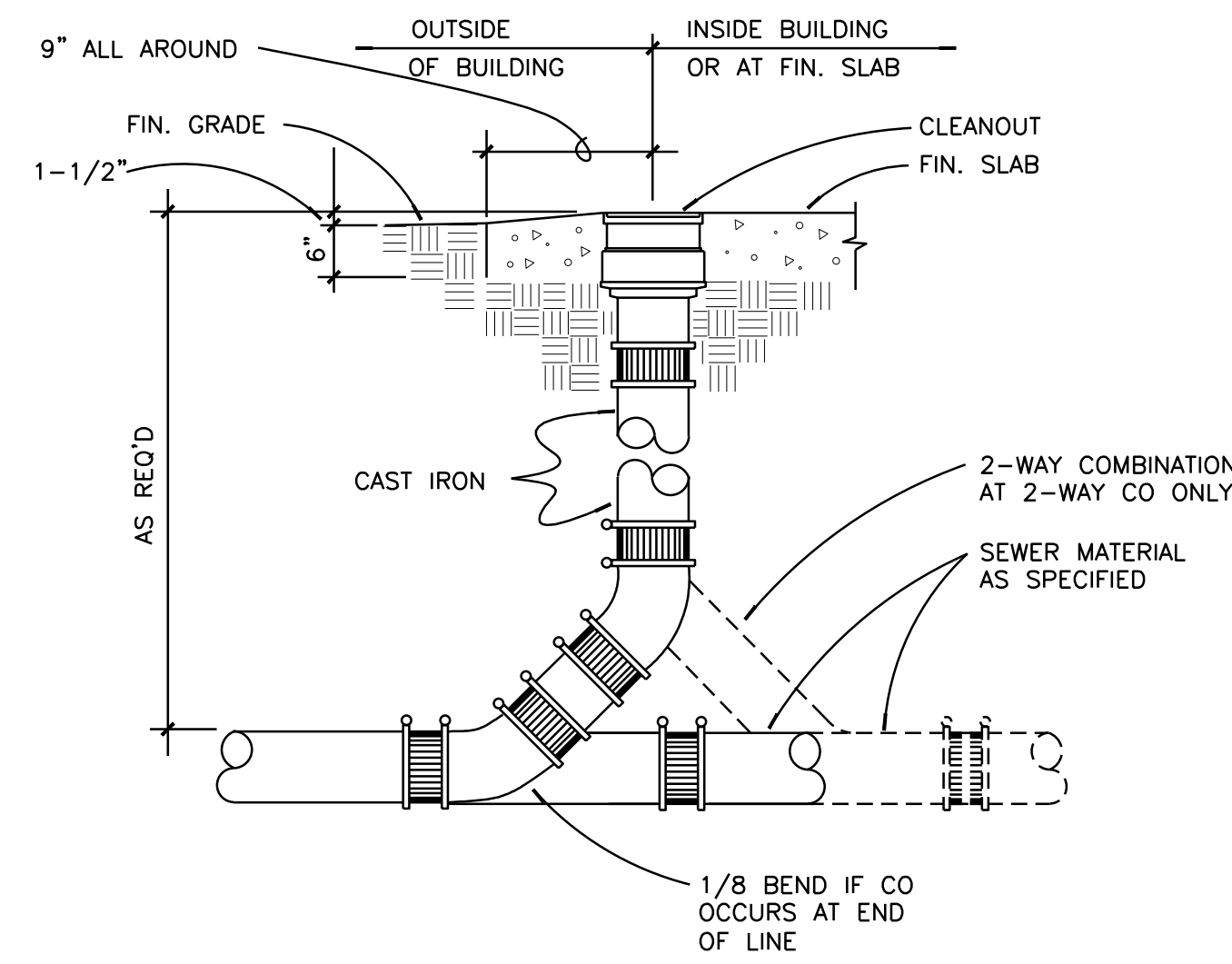
**MECHANICAL &  
 PLUMBING PLANS**

July 27, 2015  
 H+K Project No: 1504

**MP101**



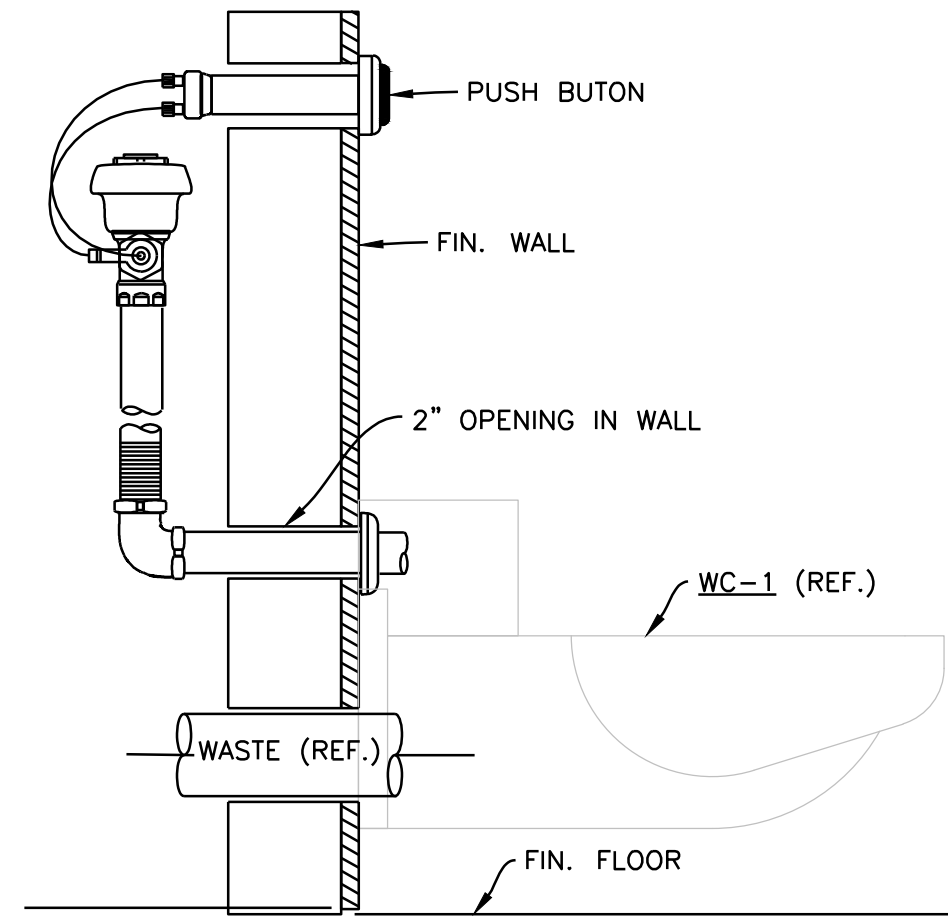




**CLEAN-OUT TO GRADE**

SCALE: NONE

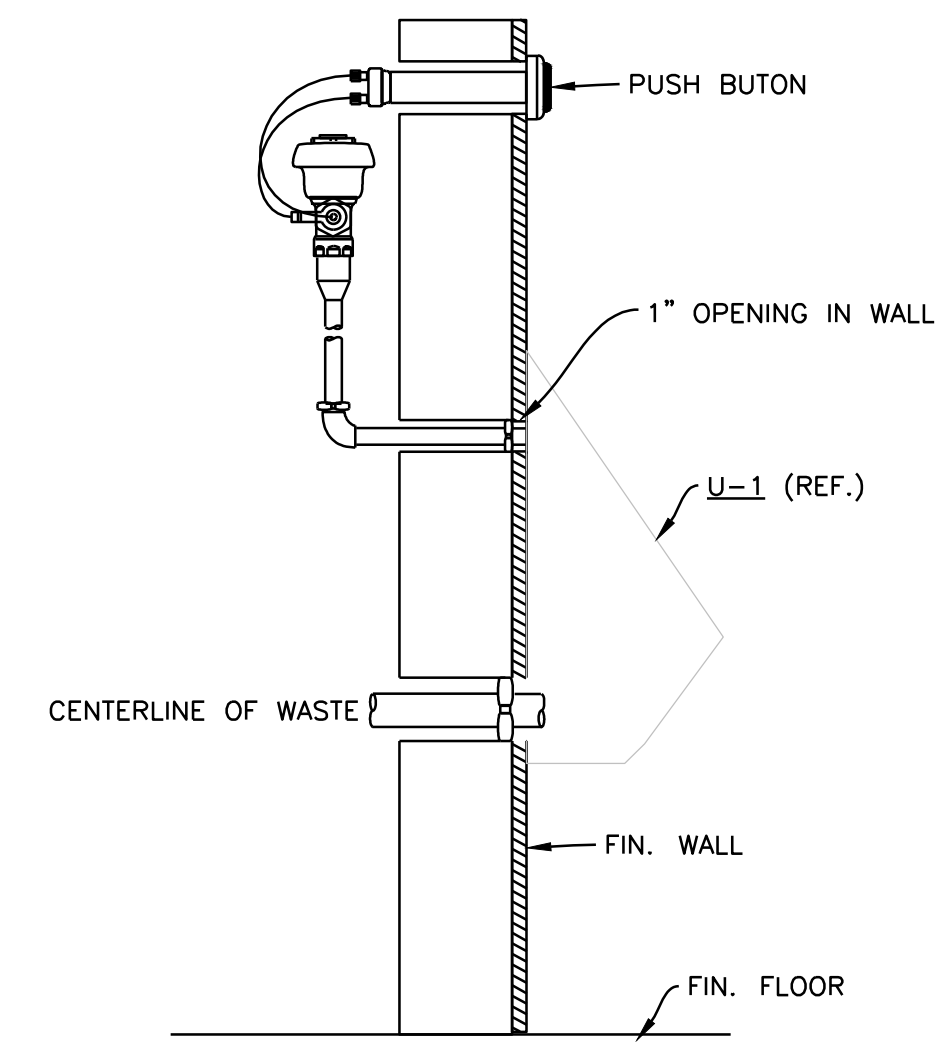
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**FLUSH METER (WC-1)**

SCALE: NONE

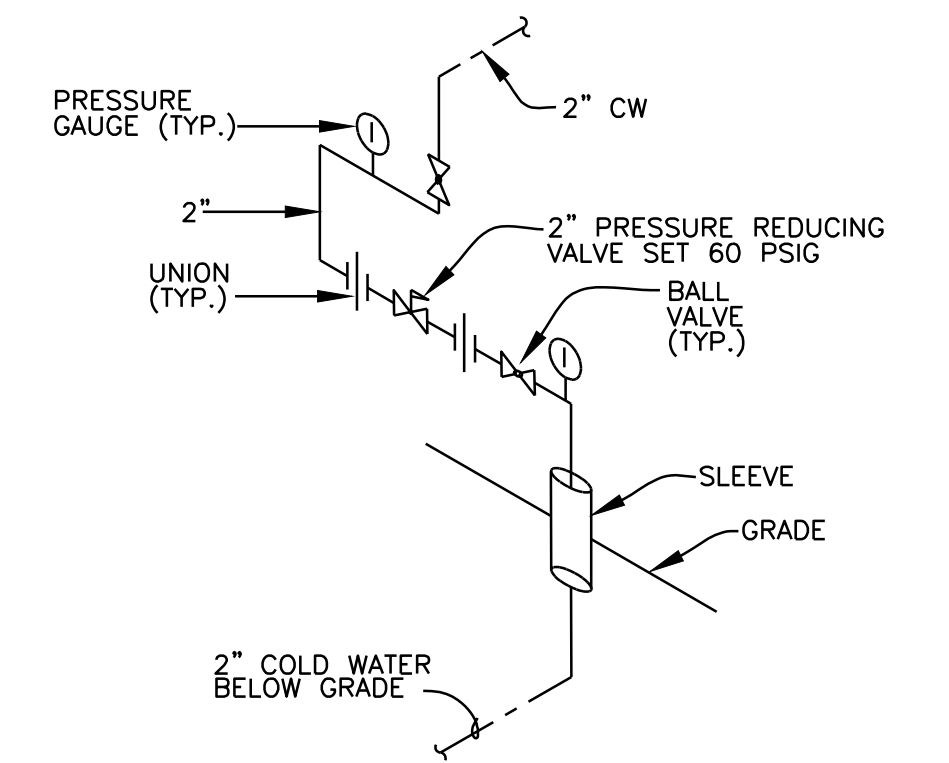
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**FLUSH METER (U-1)**

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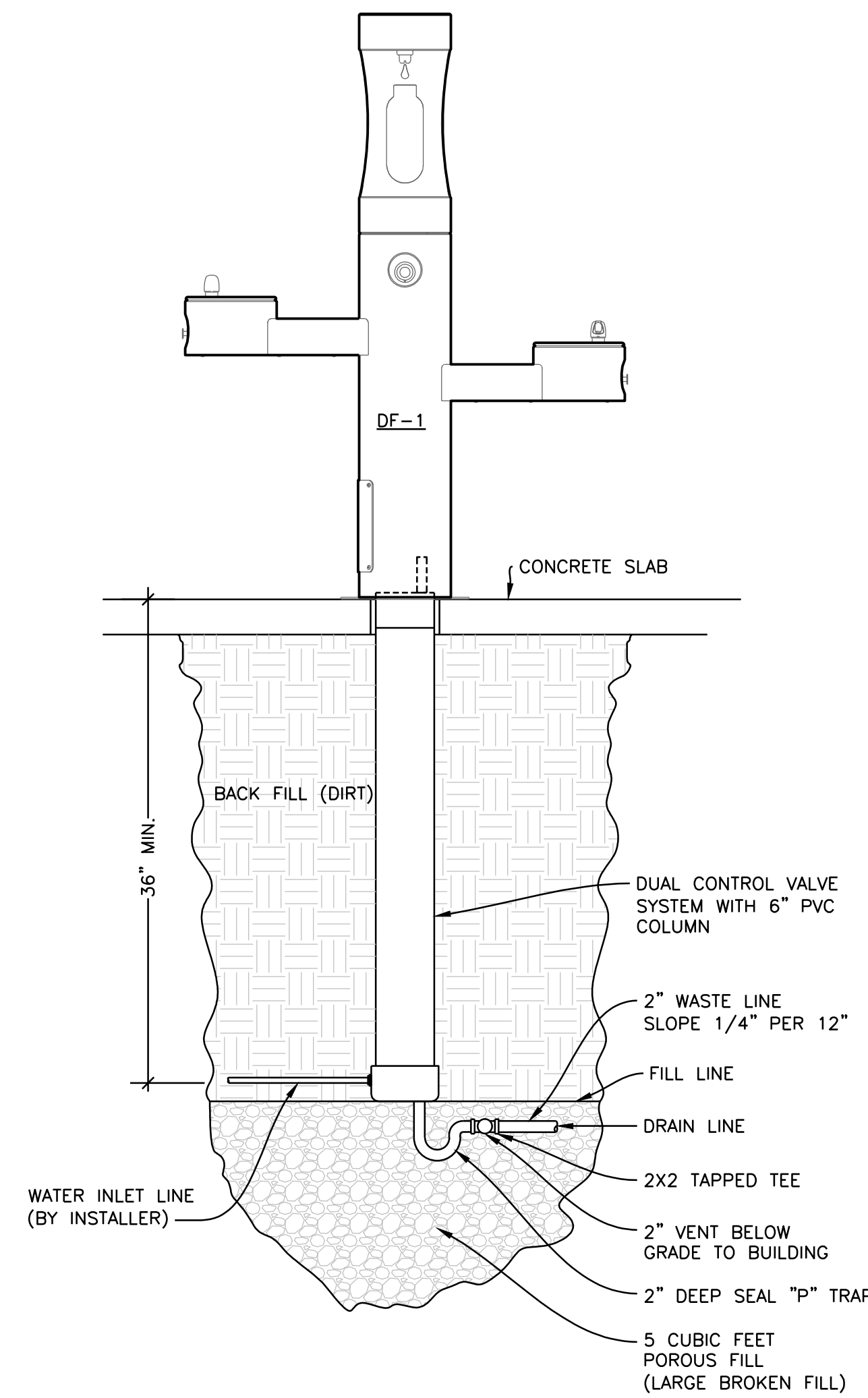
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**PRESSURE REDUCING VALVE**

SCALE: NONE

4  
MP601

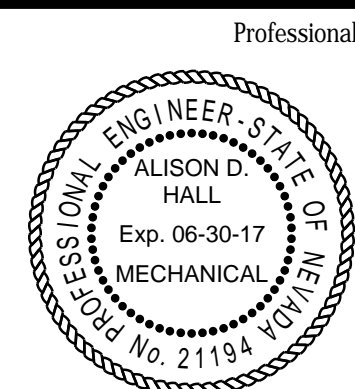


**DRINKING FOUNTAIN**

SCALE: NONE

5  
MP601

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**Rock Park  
Restroom and Storage Building**

1515 S. Rock Blvd.  
Sparks, NV 89502

MECHANICAL &  
PLUMBING DETAILS

July 27, 2015  
H+K Project No: 1504

**MP601**



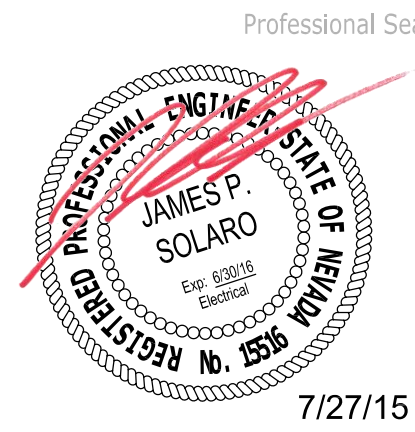


**SPECIFICATIONS**

| ITEM  | DESCRIPTION  | ITEM  | DESCRIPTION  |
|-------|--|-------|--|
| 16.1  | STANDARDS AND CODES: ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), AS WELL AS ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. THIS DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING WORK SHOWN OR SPECIFIED WHICH MAY EXCEED THE REQUIREMENTS OF SUCH ORDINANCES, LAWS, REGULATIONS AND CODES.  | 16.15 | WIRING: WIRE SHALL BE COPPER UNLESS OTHERWISE INDICATED. MINIMUM WIRE SIZE SHALL BE #12 AWG. INSULATION SHALL BE THW, THWN OR THHN.  |
| 16.2  | COMPLETE INSTALLATION: PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, ACCESSORIES, ETC., NECESSARY TO ACCOMPLISH A COMPLETE ELECTRICAL SYSTEM IN ACCORDANCE WITH THE PLANS TOGETHER WITH THE SPECIFICATIONS.  | 16.16 | FUSES: FUSES SHALL BE SIZED PER ACTUAL NAMEPLATE OF EQUIPMENT SERVED. FUSES SHALL BE DUAL-ELEMENT, CURRENT-LIMITING, AND SHALL BE INTERCHANGEABLE BETWEEN FRAME SIZES WITH STANDARD FACTORY FUSE REDUCERS. FUSES SHALL BE AS FOLLOWS UNLESS OTHERWISE INDICATED:<br><br>CIRCUITS 601 TO 6000 AMPERES SHALL BE PROTECTED BY CURRENT LIMITING BUSSMANN LOW-PEAK TIME-DELAY FUSES KRP-C - UL CLASS L<br><br>CIRCUITS 0 TO 600 AMPERES SHALL BE PROTECTED BY CURRENT LIMITING BUSSMANN LOW-PEAK DUAL-ELEMENT FUSES LPN-RK (250 VOLTS) OR LPS-RK (600 VOLTS) - UL CLASS RK1<br><br>ALL INDIVIDUAL MOTOR CIRCUITS RATED 480 AMPERES OR LESS SHALL BE PROTECTED BY BUSSMANN LOW-PEAK DUAL-ELEMENT FUSES LPN-RK (250 VOLTS) OR LPS-RK (600 VOLTS)-UL CLASS RK1 OR L<br><br>CIRCUIT BREAKER PANELS SHALL BE PROTECTED BY BUSSMANN LOW-PEAK DUAL-ELEMENT FUSES LPN-RK (250 VOLTS), LPS-RK (600 VOLTS) OR BUSSMANN LOW-PEAK KRP-C TIME-DELAY FUSES - UL CLASS RK1 OR L<br><br>ALL DUAL-ELEMENT FUSES SHALL HAVE SEPARATE OVERLOAD AND SHORT-CIRCUIT ELEMENTS. PROVIDE SPARE FUSE CABINET AFTER THE COMPLETION OF THE PROJECT WITH ONE SET OF SPARE FUSES FOR EVERY SIZE USED. |
| 16.3  | PERMITS: OBTAIN AND PAY FOR ALL BUILDING AND WORKING PERMITS AND INSPECTION FEES REQUIRED FOR THIS PROJECT.  | 16.17 | UTILITY SERVICES: PROVIDE POWER AND COMMUNICATIONS SYSTEM SERVICES IN ACCORDANCE WITH THE REQUIREMENTS OF THE SERVING UTILITIES. PROVIDE EXCAVATION, RACEWAY, STRUCTURES, GROUNDING, ETC. AS REQUIRED. CONTACT SERVING UTILITIES AND OBTAIN THEIR PROJECT SPECIFIC REQUIREMENTS PRIOR TO BID. UTILITY WORK INDICATED HEREIN IS FOR BIDDING ASSISTANCE ONLY. THESE PLANS DO NOT PURPORT TO INDICATE ALL WORK REQUIRED. (UTILITY SERVICE CHARGES PAID BY OTHERS).  |
| 16.4  | DRAWINGS: DATA PRESENTED ON THESE DRAWINGS SHALL BE FIELD VERIFIED SINCE ALL DIMENSIONS, LOCATIONS, AND LEVELS ARE GOVERNED BY ACTUAL FIELD CONDITIONS. REVIEW ALL ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL AND SPECIALTY SYSTEMS DRAWINGS AND ADJUST ALL WORK TO MEET THE REQUIREMENTS ON CONDITIONS SHOWN THEREON, DO NOT SCALE ELECTRICAL PLANS FOR FIXTURE, DEVICE OR APPLIANCE LOCATIONS. USE CONFIGURED DIMENSIONS IF GIVEN OR CHECK ARCHITECTURAL OR MECHANICAL DRAWINGS.   | 16.18 | TEMPORARY CONSTRUCTION POWER: PROVIDE TEMPORARY ELECTRICAL POWER AND LIGHTING FOR ALL TRADES THAT REQUIRE SERVICE DURING THE COURSE OF THIS PROJECT. PROVIDE TEMPORARY SERVICE AND DISTRIBUTION AS REQUIRED. COMPLY WITH THE NEC AND OSHA REQUIREMENTS. (ENERGY COSTS BY OTHERS).  |
| 16.5  | COPYRIGHT: THESE PLANS, SPECIFICATIONS AND ALL RELATED ADDENDA AND DOCUMENTS CONSTITUTE COPYRIGHT MATERIALS OF JP ENGINEERING. ALL RIGHTS CONFERRED BY THE COPYRIGHT AND SIMILAR LAWS ARE RESERVED TO JP ENGINEERING. THESE MATERIALS SHALL REMAIN THE SOLE PROPERTY OF JP ENGINEERING AND MAY NOT BE REPRODUCED, DISTRIBUTED TO OTHERS OR USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN CONSENT OF JP ENGINEERING.  | 16.19 | SUBMITTALS: BEFORE ORDERING ANY EQUIPMENT, CONTRACTOR SHALL SUBMIT SIX COPIES OF FACTORY SHOP DRAWINGS FOR ALL LIGHTING FIXTURES, SWITCHGEAR, PANELS, MOTOR CONTROLLERS, WIRING DEVICES, ETC. PROPOSED FOR THIS PROJECT.   |
| 16.6  | LOCATIONS: INDICATED LOCATIONS OF ALL OUTLETS AND EQUIPMENT ARE SUBJECT TO CHANGE. SHIFT/RELOCATE/RECONFIGURE ANY OUTLET, EQUIPMENT OR CONNECTION POINT UP TO 10' AS DIRECTED BY ENGINEER, AT NO ADDED COST.   | 16.20 | SUBSTITUTIONS: PROPOSED SUBSTITUTIONS SHALL BE EQUAL OR SUPERIOR TO SPECIFIED ITEMS IN ALL RESPECTS. DETERMINATION OF EQUALITY RESTS SOLELY WITH ENGINEER. SUBSTITUTIONS MUST BE SUBMITTED A MINIMUM OF 10 WORKING DAYS PRIOR TO BID FOR CONSIDERATION. PROPOSED SUBSTITUTIONS PROVIDED LATER WILL NOT BE REVIEWED OR ALLOWED. BID SUBSTITUTED MATERIAL WILL ONLY BE ALLOWED IF ACCEPTED IN WRITING BY ENGINEER.   |
| 16.7  | RECORD DRAWINGS: CONTRACTOR SHALL PROVIDE, PRIOR TO FINAL ACCEPTANCE AND OBSERVATION, ONE SET OF REVISED RECORD ELECTRICAL CONSTRUCTION DOCUMENTS ON REPRODUCIBLE MEDIUM INDICATING THE FOLLOWING ADDITIONAL INFORMATION:<br><br>EXACT ROUTING OF ALL CONDUITS LARGER THAN 1"<br>EXACT LOCATION OF ALL SERVICE GROUNDING/BONDING CONNECTIONS<br>CONTRACTORS NAME, ADDRESS AND TELEPHONE NUMBER<br><br>RECORD NOTATIONS SHALL BE CLEARLY DRAWN AT A DRAFTING APPEARANCE EQUAL TO THE ORIGINAL DRAWINGS. CONTRACTOR SHALL ALSO PROVIDE ALL OPERATING AND MAINTENANCE MANUALS PRIOR TO FINAL PAYMENT.   | 16.21 | IDENTIFICATION: PROVIDE ENGRAVED NAMEPLATES FOR ALL SWITCHBOARDS, PANELS, TRANSFORMERS, DISCONNECTS, MOTOR STARTERS, CONTACTORS, TIME SWITCHES AND CABINETS. NAMEPLATES SHALL INCLUDE THE FOLLOWING INFORMATION AS APPLICABLE:<br><br>DESIGNATION (i.e. PANEL A)<br>FUNCTION (i.e. AIR HANDLER AH-1)<br>VOLTAGE, PHASE, WIRE (i.e. 480 VOLT, 3Ø, 4W)<br>FEEDER SIZE (i.e. 4-#4/0 THWN CU IN 2" C.)<br>SOURCE (i.e. SWITCHBOARD MSB)<br><br>NAMEPLATES SHALL BE WHITE LETTERS ON BLACK FOR NORMAL EQUIPMENT AND WHITE LETTERS ON RED FOR EMERGENCY EQUIPMENT.   |
| 16.8  | EXAMINATION OF SITE AND EXISTING CONDITIONS: BEFORE SUBMITTING A PROPOSAL, CONTRACTOR SHALL EXAMINE THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND LIMITATIONS. NO EXTRAS WILL BE ALLOWED BECAUSE OF THE CONTRACTOR'S MISUNDERSTANDING OF THE AMOUNT OF WORK INVOLVED OR HIS LACK OF KNOWLEDGE OF ANY SITE CONDITIONS WHICH MAY AFFECT HIS WORK. ANY APPARENT VARIANCE OF THE DRAWINGS OR SPECIFICATIONS FROM THE EXISTING CONDITIONS AT THE SITE SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER BEFORE SUBMITTING A PROPOSAL.  | 16.22 | GUARANTEE: THE COMPLETE ELECTRICAL SYSTEM, AND ALL PORTIONS THEREOF, SHALL BE GUARANTEED TO BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. PROMPTLY REMEDY SUCH DEFECTS AND ANY SUBSEQUENT DAMAGE CAUSED BY THE DEFECTS OR REPAIR THEREOF AT NO EXPENSE TO THE OWNER. LAMPS ARE EXEMPT FROM THIS GUARANTEE, BUT SHALL BE NEW AT TIME OF FINAL ACCEPTANCE.   |
| 16.9  | TESTING: PRIOR TO PLACING IN SERVICE, ALL ELECTRICAL SYSTEMS SHALL BE TESTED FOR OPENS, GROUNDS, AND PHASE ROTATION. THE MAIN SERVICE GROUND AND ALL LOCAL TRANSFORMER MADE GROUNDS SHALL BE MEGGER-TESTED. PROVIDE GFI TESTING FOR SERVICE SWITCHBOARD.   | 16.23 | COORDINATION: THE CIVIL, ARCHITECTURAL, MECHANICAL, KITCHEN AND INTERIOR DRAWINGS CONTAIN DETAIL DESCRIPTIONS, CIRCUITING AND CONNECTION REQUIREMENTS WHICH ARE PART OF DIVISION 16 RESPONSIBILITIES. ELECTRICAL CONTRACTOR SHOULD NOT SUBMIT BIDS ON THIS PROJECT BEFORE REVIEWING ALL PROJECT DRAWINGS, SPECIFICATIONS AND ADDENDA.  |
| 16.10 | GROUNDING: GROUND ALL EQUIPMENT AND SYSTEM NEUTRAL IN ACCORDANCE WITH ARTICLE 250 OF THE NEC. EQUIPMENT GROUNDS HAVE NOT BEEN SHOWN ON DRAWINGS - WHERE GROUND WIRES HAVE BEEN SHOWN THEY INDICATE AN INSULATED GROUND.  | 16.24 | CONCRETE BLOCK: THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF THE ELECTRICAL COMPONENTS INSIDE THE CONCRETE BLOCK. SURFACE MOUNTED RACEWAY IS NOT ACCEPTABLE. THIS SHALL BE FOR ALL RECEPTACLES, SWITCHES, LIGHTING, HAND DRYERS, ELECTRONIC VALVES, ETC.   |
| 16.11 | EQUIPMENT STANDARDS: ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND OF THE HIGHEST QUALITY AVAILABLE ("SPECIFICATION GRADE"). SERVICE EQUIPMENT SHALL BE FACTORY-ASSEMBLED COMMERCIAL-GRADE, CONFIGURED PER SERVING UTILITY STANDARDS. WIRING DEVICES SHALL BE SPECIFICATION GRADE WITH NYLON PLATES, WHITE UNLESS OTHERWISE NOTED, RAISED STEEL BOX COVERS MAY BE USED IN UTILITY AREAS.  |       |  |
| 16.12 | TAMPER-PROOF: ALL EQUIPMENT AND CIRCUITING ACCESSIBLE BY THE PUBLIC SHALL BE TAMPER-PROOF AND VANDAL RESISTANT. OPENABLE DEVICES AND EQUIPMENT SHALL BE PADLOCKABLE.   |       |  |
| 16.13 | PANELBOARDS: PANELS SHALL HAVE FLUSH MONO-FLAT TRIM, LOCKING DOOR-IN-DOOR HINGED COVERS AND BOLT-ON CIRCUIT BREAKERS. FLUSH-MOUNTED PANELS SHALL HAVE EMPTY CONDUITS STUBBED TO ACCESSIBLE ATTIC SPACE- ONE 1" CONDUIT FOR EACH FOUR SPARE/SPACE CIRCUITS. PROVIDE ONE TYPED AND ONE SPARE PANEL SCHEDULE FOR OWNER'S USE. SCHEDULES SHALL BE TWO COLUMN TYPE WITH ODD CIRCUIT NUMBERS ON THE LEFT AND EVEN NUMBERS ON THE RIGHT.  |       |  |
| 16.14 | CIRCUITING: ALL WIRING SHALL BE IN CONDUIT, CONCEALED EXCEPT WHERE NOTED. EMT WITH STEEL SET SCREW INSULATED-THROAT FITTINGS MAY BE USED IN DRY, PROTECTED INTERIOR LOCATIONS. PVC SCHEDULE 40 SHALL BE USED BELOW GRADE AT MINIMUM -24". WRAPPED RIGID ELBOWS AND RISERS SHALL BE USED FOR ALL THROUGH-GRADE TRANSITIONS AND STUB-UPS. RIGID OR IMC CONDUIT WITH THREADED FITTINGS SHALL BE USED IN ALL LOCATIONS WHERE EXPOSED TO THE ELEMENTS OR SUBJECT TO PHYSICAL DAMAGE. METAL-CLAD CABLE (TYPE MC) WILL BE ACCEPTABLE FOR INSTALLATION AS FLEXIBLE WHIPS FROM JUNCTION BOXES TO LIGHTING FIXTURES AND WITHIN CASEWORK. TYPE MC CABLE MAY NOT BE USED FOR HOMERUNS OR SINGLE BRANCH CIRCUITS. ENT IS NOT ALLOWED. CONNECT RECESSED AND SUSPENDED LIGHTING FIXTURES, MOTORIZED AND VIBRATING EQUIPMENT WITH STEEL FLEX. ALL CONDUIT SHALL HAVE PULL CORD IF OTHERWISE EMPTY. |       |  |

**MASTER SYMBOL LIST**

| SIGNAL OUTLETS   |  | RECEPTACLES   |   | ABBREVIATIONS |                                |
|--|--|---|---|---------------|--------------------------------|
| ▼  | TELEPHONE: 4S BOX WITH SINGLE GANG MUD RING UON, +18" AFF UON  | ⊕ ⊖   | DUPLEX: 20A, 125V, NEMA 5-20, +18" AFF  | ℄             | CENTERLINE                     |
| ⊕  | TELEPHONE: 4S BOX WITH SINGLE GANG MUD RING UON, WALL MOUNT +54" AFF UON   | ⊕ ⊖   | DOUBLE DUPLEX: 20A, 125V, NEMA 5-20, +18" AFF   | AFF           | ABOVE FINISHED FLOOR           |
| ▽  | DATA: 4S BOX WITH SINGLE GANG MUD RING UON, +18" AFF UON   | ⊕ ⊖   | HALF SWITCHED DUPLEX: 20A, 125V, NEMA 5-20, +18" AFF (TOP HALF SWITCHED)                          | AIC           | AMPERES INTERRUPTING CAPACITY  |
| ▽  | VOICE/DATA: 4S BOX WITH SINGLE GANG MUD RING UON, +18" AFF UON   | ⊕ ⊖   | DUPLEX GFCI: 20A, 125V, GFCI, NEMA 5-20 GFR, +18" AFF   | AFC           | ABOVE FINISH CEILING           |
| ⊕  | TELEVISION: 4S BOX WITH SINGLE GANG MUD RING UON, +18" AFF UON   | ⊕ ⊖   | DUPLEX I.G.: 20A, 125V, ISO. GND., NEMA 5-20 IG +18" AFF (WHITE WITH ORANGE TRIANGLE, UON)        | BMS           | BUILDING MANAGEMENT SYSTEM     |
| ⊕  | CAMERA: 4S BOX WITH SINGLE GANG MUD RING UON, CEILING MOUNTED UON  | ⊕ ⊖   | DOUBLE DUPLEX I.G.: 20A, 125V, ISO. GND., NEMA 5-20 IG +18" AFF (WHITE WITH ORANGE TRIANGLE, UON) | C             | CONDUIT                        |
| ⊕  | MICROPHONE: 4S BOX WITH SINGLE GANG MUD RING UON, +18" AFF UON   | ⊕ ⊖   | SPECIAL RECEPTACLE - AS INDICATED ON PLANS, +18" AFF  | CB            | CIRCUIT BREAKER                |
| ⊕  | VOLUME CONTROL: 4S BOX WITH SINGLE GANG MUD RING UON, +48" TO TOP UON  | NOTE: DIAMOND SYMBOLS INDICATES DEDICATED CIRCUIT.                  |   |               |                                |
| ⊕  | SPEAKER: 8" COAXIAL WITH BACK BOX AND GRILLE, CEILING MOUNTED UON  | <b>EQUIPMENT</b>  |   |               |                                |
| ⊕  | 3/4" (UON) STUB INTO ACCESSIBLE CEILING SPACE  | ▨   | SWITCHBOARD   | DPDT          | DOUBLE POLE DOUBLE THROW       |
| <b>SWITCHES</b>  |  | ■   | PANELBOARD: SURFACE MOUNTED   | DPST          | DOUBLE POLE SINGLE THROW       |
| S  | SINGLE POLE: 20A, 120/277V, +48" TO TOP UON  | ■   | PANELBOARD: FLUSH MOUNTED   | (E)           | EXISTING TO REMAIN             |
| S <sub>2</sub>   | TWO POLE: 20A, 120/277V, +48" TO TOP UON   | □   | TRANSFORMER   | ELEV          | ELEVATOR                       |
| S <sub>3</sub>   | THREE WAY: 20A, 120/277V, +48" TO TOP UON  | □   | RELAY (120V COIL , STEP DN XFMR IF REQUIRED, UON)   | EMT           | ELECTRICAL METALLIC TUBING     |
| S <sub>4</sub>   | FOUR WAY: 20A, 120/277V, +48" TO TOP UON   | □   | CONTACTOR (120V COIL, STEP DN XFMR IF REQUIRED, UON)  | EPO           | EMERGENCY POWER OFF SYSTEM     |
| S <sub>X</sub>   | X INDICATES EMERGENCY CIRCUIT  | □   | COMBINATION MAGNETIC STARTER/FUSED DISCONNECT   | FBO           | FURNISHED BY OTHERS            |
| S <sub>P</sub>   | P INDICATES PILOT LIGHT (LIGHTED WHEN ON)  | □   | NON-FUSIBLE DISCONNECT SWITCH   | FPEN          | FUSE PER EQUIPMENT NAMEPLATE   |
| S <sub>L</sub>   | L INDICATES PILOT LOCATOR (LIGHTED WHEN OFF)   | □   | FUSIBLE DISCONNECT SWITCH   | FLUOR         | FLUORESCENT                    |
| S <sub>K</sub>   | K INDICATES KEY OPERATED SWITCH  | □   | PULLBOX: SIZE AS REQUIRED BY NEC  | FU            | FUSE: DUAL-ELEMENT, TIME DELAY |
| S <sub>M</sub>   | MANUAL MOTOR STARTER: 20A, 120/277V, POLES AND HEATERS AS REQUIRED   | □   | JUNCTION BOX: SIZE AS REQUIRED BY NEC   | GFI/GFCI      | GROUND FAULT INTERRUPTER       |
| S <sub>MC</sub>  | MOMENTARY CONTACT: 20A, 120/277V, SPDT CENTER NORMALLY OFF UON, +48" TO TOP UON  | —   | SURFACE RACEWAY WITH OR WITHOUT DEVICES   | GND           | GROUND                         |
| D  | DIMMER: 600 WATT UON, ELECTRONIC SLIDER, WITH ON/OFF TOGGLE, +48" TO TOP UON (PLANS SHALL INDICATE TYPE: FLUOR, INCAND OR LOW-VOLTAGE) | —   | TELEPOWER POLE  | HOA           | HAND-OFF-AUTOMATIC             |
| ⬥  | MOTION/OCCUPANCY SENSOR SWITCH WITH OFF-AUTO SELECTOR - WALL MOUNTED AT +48" TO TOP UON  | <b>CIRCUITING</b>   |   |               |                                |
| ⊕  | ULTRASONIC MOTION/OCCUPANCY SENSOR SWITCH CEILING MOUNTED  | —   | CONDUIT IN WALL OR ABOVE CEILING  | IG            | ISOLATED GROUND                |
| ⊕  | ARROWS INDICATE DIRECTION AND COVERAGE PROVIDE WITH POWER PACK PER MANUFACTURERS REQUIREMENTS  | —   | CONDUIT IN FLOOR OR BELOW GRADE   | INCAND        | INCANDESCENT                   |
| ⊕  | PHOTO ELECTRIC SWITCH: 1600VA UON  | —   | METAL CLAD CABLE (MC)   | K             | kcmil (300K = 300 kcmil)       |
| <b>METHODS</b>   |  | —   | OVERHEAD SERVICE  | LTG           | LIGHTING                       |
| S <sub>X</sub>   | SHADING INDICATES: FIXTURE, OUTLET, EQUIPMENT, ETC. ON EMERGENCY 'X' OR NIGHT LIGHT 'NL' CIRCUIT                                       | — P —   | PRIMARY   | LV            | LOW VOLTAGE                    |
| SS   | DEVICE MOUNTED IN MULTIPLE UNDER COMMON COVER MAXIMUM HEIGHT ON WALL SHALL BE +48" TO TOP UON  | — S —   | SECONDARY   | MCP           | MOTOR CIRCUIT PROTECTOR        |
| ⊕  | DEVICES MOUNTED IN OR ABOVE COUNTER/BACKSPLASH: MAXIMUM HEIGHT ON WALLS SHALL BE +48" TO TOP UON                                       | — T —   | TELEPHONE   | MC            | MULTI-CONDUCTOR CABLE          |
| ⊕  | FLUSH FLOOR MOUNTED WIRING DEVICES   | — TV —  | TELEVISION  | (N)           | NEW                            |
| ⊕  | FLUSH FLOOR MOUNTED WIRING DEVICES IN SINGLE MULTI-COMPARTMENT BOX   | —   | LOW VOLTAGE AND/OR CONTROL CIRCUITING   | NC            | NORMALLY CLOSED                |
| ⊕  | RECEPTACLE MOUNTED IN CEILING OR CASEWORK  | —   | EMERGENCY CIRCUIT   | NEUT          | NEUTRAL                        |
| ⊕  | FINE DASHING INDICATES EXISTING EQUIPMENT AND DEVICES TO BE REMOVED  | —   | STUB OUT: MARK AND CAP (SITE)   | NL            | NIGHT LIGHT                    |
| <b>DESIGNATIONS</b>  |  | —   | CIRCUITING UP OR DOWN   | NO            | NORMALLY OPEN                  |
| ⊕  | LIGHT FIXTURE: F1 = TYPE (SEE FIXTURE SCHEDULE)  | TICS = NO. OF #12 WIRES (UON) IF MORE THAN TWO WITHIN CONDUIT OR MC |   |               |                                |
| ⊕  | SHEET NOTE   | ⊕   | ISOLATED GROUNDING CONDUCTOR  | PNL           | PANEL                          |
| ⊕  | REVISION DELTA: NUMBER REPRESENTS REVISION   | ⊕   | GROUNDING CONDUCTOR   | PVC           | POLYVINYL CHLORIDE CONDUIT     |
| ⊕  | MECHANICAL AND PLUMBING EQUIPMENT  | ⊕   | NEUTRAL CONDUCTOR   | (R)           | EXISTING TO BE RELOCATED       |
| ⊕  | MISCELLANEOUS: THESE AND OTHER SYMBOLS AS INDICATED IN TABLES AND SCHEDULES ON THE PLANS.  | ⊕   | PHASE CONDUCTOR(S)  | RAC           | RIGID ALUMINUM CONDUIT         |
|  |  | ⊕   | ISOLATED GROUNDING CONDUCTOR  | RSC           | RIGID STEEL CONDUIT            |
|  |  | ⊕   | NEUTRAL CONDUCTOR (ONE PER PHASE CONDUCTOR)   | SLD           | SINGLE LINE DIAGRAM            |
|  |  | ⊕   | PANEL DESIGNATION   | SO            | SEAL OFF                       |
|  |  | ⊕   |   | SPDT          | SINGLE POLE DOUBLE THROW       |
|  |  | ⊕   |   | SPEN          | SIZE PER EQUIPMENT NAMEPLATE   |
|  |  | ⊕   |   | SPST          | SINGLE POLE SINGLE THROW       |
|  |  | ⊕   |   | TEL           | TELECOM                        |
|  |  | ⊕   |   | TYP           | TYPICAL                        |
|  |  | ⊕   |   | UNSW          | UNSWITCHED                     |
|  |  | ⊕   |   | UON           | UNLESS OTHERWISE NOTED         |
|  |  | ⊕   |   | WP            | WEATHERPROOF (NEMA 3R)         |
|  |  | ⊕   |   | WT            | WATERTIGHT                     |
|  |  | ⊕   |   | (X)           | EXISTING TO BE REMOVED         |
|  |  | ⊕   |   | XFMR          | TRANSFORMER                    |
|  |  | ⊕   |   | XP            | EXPLOSION PROOF                |
| NOTE: THIS IS A MASTER SYMBOL LIST, ALL SYMBOLS SHOWN MAY NOT BE USED WITHIN THIS SET OF PLANS |  |   |   |               |                                |



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#15035  
  
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**Rock Park  
 Restroom and Storage Building**  
 1515 S. Rock Blvd.  
 Sparks, NV 89502

Symbol List & Specifications  
 July 27, 2015  
 H+K Project No.: 1504  
**E001**





# COMcheck Software Version 4.0.0 Interior Lighting Compliance Certificate

## Section 1: Project Information

Energy Code: 2009 IECC  
 Project Title: Rock Park Restrooms/Storage  
 Project Type: New Construction  
 Construction Site: 1515 S. Rock Blvd Sparks, NV 89502  
 Owner/Agent: James Sabero, PE  
 Designer/Contractor: JP Engineering, LLC  
 10597 Double R Blvd Reno, NV 89521  
 775-852-2337

## Section 2: Interior Lighting and Power Calculation

| A Area Category              | B Floor Area (sq ft) | C Allowed Watts / ft <sup>2</sup> | D Allowed Watts (B x C) |
|------------------------------|----------------------|-----------------------------------|-------------------------|
| Restroom/Storage (Warehouse) | 799                  | 0.8                               | 614                     |
| Total Allowed Watts =        |                      |                                   | 614                     |

## Section 3: Interior Lighting Fixture Schedule

| Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast            | B Lamp/ Fixture | C # of Fixtures | D E Fixture Watt. (C x D) |
|---|-----------------|-----------------|---------------------------|
| Restroom/Storage ( Warehouse 769 sq.ft.)                                |                 |                 |                           |
| Linear Fluorescent 1: F1: See Fixture Schedule: 48" T8 32W: Electronic: | 2               | 4               | 65 260                    |
| Linear Fluorescent 2: F2: See Fixture Schedule: 48" T8 32W: Electronic: | 2               | 2               | 65 130                    |
| Linear Fluorescent 3: F3: See Fixture Schedule: 48" T8 32W: Electronic: | 2               | 2               | 65 130                    |
| Linear Fluorescent 4: F4: See Fixture Schedule: 48" T8 32W: Electronic: | 1               | 2               | 32 64                     |
| Total Proposed Watts =  |                 |                 | 584                       |

## Section 4: Requirements Checklist

Lighting Wattage:  
 1. Total proposed watts must be less than or equal to total allowed watts.  
 Allowed Watts: 614 Proposed Watts: 584 Compliance: YES

Controls, Switching, and Wiring:  
 2. Daylight zones under skylights more than 15 feet from the perimeter have lighting controls separate from daylight zones adjacent to vertical fenestration.  
 3. Daylight zones have individual lighting controls independent from that of the general area lighting.

Exceptions:  
 4. Continuous daylight zones spanning no more than two orientations are allowed to be controlled by a single controlling device.  
 5. Daylight spaces enclosed by walls or ceiling height partitions and containing two or fewer light fixtures are not required to have a separate switch for general area lighting.  
 6. Independent controls for each space (switch/occupancy sensor).

Project Title: Rock Park Restrooms/Storage  
 Date Issued: J:\2015\15035 - Rock Park Restroom\7\_Calculation\15035 IECC.docx  
 Report date: 05/20/15  
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Exceptions:  
 5. Areas designated as security or emergency areas that must be continuously illuminated.  
 6. Lighting in stairways or corridors that are elements of the means of egress.  
 7. Master switch at entry to hotel/motel guest rooms.  
 8. Individual theling units separately metered.  
 9. Medical task lighting or ambulatory display lighting claimed to be exempt from compliance has a control device independent of the control of the nonmedical lighting.  
 10. Each space required to have a manual control also allows for reducing the connected lighting load by at least 50 percent by either controlling all luminaires, dual switching of alternate zones of luminaires, alternate luminaires, or alternate lamps, switching the middle lamp luminaires independently of other lamps, or switching each luminaire or each lamp.

Exceptions:  
 11. Sleeping units, patient care areas, and spaces where automatic shutoff would endanger safety or security.  
 12. Photocopy/retroreflective film units on exterior lights.

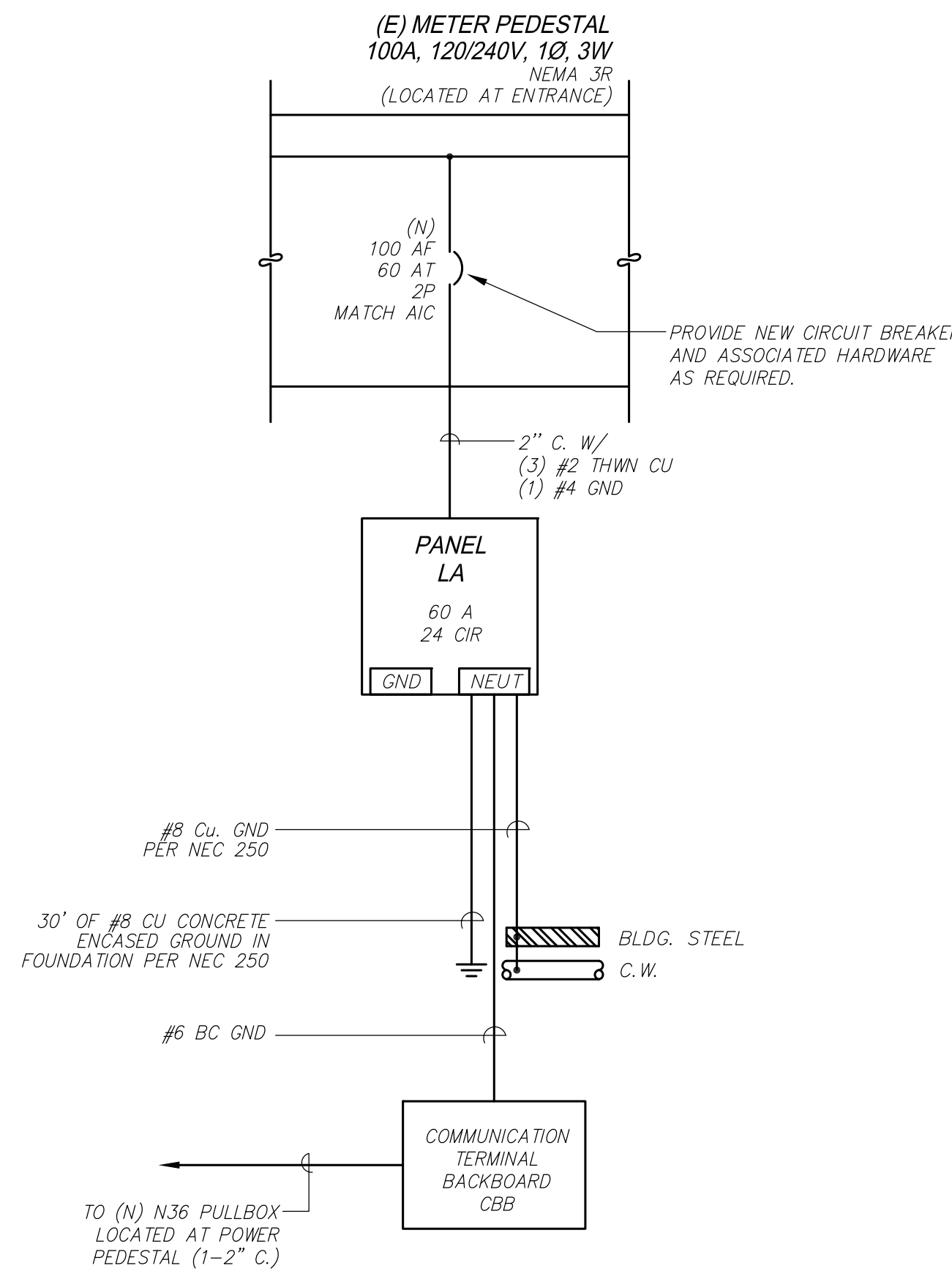
Exceptions:  
 13. Lighting intended for 24 hour use.  
 14. Tardens used one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).

Exceptions:  
 15. Electronic high-frequency ballasts; luminaires on emergency circuits or with no available power.

Section 5: Compliance Statement  
 Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2009 IECC requirements in COMcheck Version 4.0.0 and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title Signature Date

Project Title: Rock Park Restrooms/Storage  
 Date Issued: J:\2015\15035 - Rock Park Restroom\7\_Calculation\15035 IECC.docx  
 Report date: 05/20/15  
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# LIGHTING FIXTURE SCHEDULE

| TYPE | SYMBOL   | SKETCH   | DESCRIPTION AND MANUFACTURER  |
|------|----------|----------|---|
| F1   | [Symbol] | [Sketch] | FLUORESCENT 2-LAMP SURFACE MOUNTED LUMINAIRE WITH ACRYLIC WRAPAROUND LENS AND ELECTRONIC BALLAST.<br>MOUNTING HEIGHT: CEILING, SURFACE (2) F032 T8 4100K<br>LAMP: MVOLT<br>VOLTAGE: LITHONIA: VSL 2 32 MVOLT GEB10IS<br>MANUFACTURER: OR EQUAL SUBJECT TO REVIEW NO EQUAL<br>SUBSTITUTIONS: OR EQUAL SUBJECT TO REVIEW NO EQUAL   |
| FIX  | [Symbol] | [Sketch] | FLUORESCENT 2-LAMP SURFACE MOUNTED LUMINAIRE WITH ACRYLIC WRAPAROUND LENS AND ELECTRONIC BALLAST AND EMERGENCY BATTERY PACK.<br>MOUNTING HEIGHT: CEILING, SURFACE (2) F032 T8 4100K<br>LAMP: MVOLT<br>VOLTAGE: LITHONIA: VSL 2 32 MVOLT GEB10IS ELDW<br>MANUFACTURER: OR EQUAL SUBJECT TO REVIEW NO EQUAL<br>SUBSTITUTIONS: OR EQUAL SUBJECT TO REVIEW NO EQUAL                                   |
| F2   | [Symbol] | [Sketch] | FLUORESCENT 2-LAMP SURFACE MOUNTED LUMINAIRE WITH ACRYLIC WRAPAROUND LENS AND ELECTRONIC BALLAST.<br>MOUNTING HEIGHT: CEILING, SURFACE (2) F032 T8 4100K<br>LAMP: MVOLT<br>VOLTAGE: LITHONIA: LB 2 32 MVOLT GEB10IS<br>MANUFACTURER: OR EQUAL SUBJECT TO REVIEW NO EQUAL<br>SUBSTITUTIONS: OR EQUAL SUBJECT TO REVIEW NO EQUAL  |
| F3   | [Symbol] | [Sketch] | FLUORESCENT 4 FOOT, 1-LAMP OPEN STRIP FIXTURE WITH ELECTRONIC BALLAST AND WIRE GUARD.<br>MOUNTING HEIGHT: CEILING (2) F032 T8 4100K<br>LAMP: MVOLT<br>VOLTAGE: LITHONIA: C 1 32 MVOLT GEB10IS WGCUN NST<br>MANUFACTURER: OR EQUAL SUBJECT TO REVIEW NO EQUAL<br>SUBSTITUTIONS: OR EQUAL SUBJECT TO REVIEW NO EQUAL  |
| L1   | [Symbol] | [Sketch] | LED, ARCHITECTURAL WALL SCONCE, DARK BRONZE FINISH, SELF CONTAINED, WET LOCATION LISTED. PROVIDE WITH VANDAL GUARD AS REQUIRED.<br>MOUNTING HEIGHT: PER PLAN INCLUDED<br>LAMP: 10A700/40K<br>VOLTAGE: LITHONIA: WST LED 2 10A700/40K SR4 MVOLT VG DDBXD<br>MANUFACTURER: OR EQUAL SUBJECT TO REVIEW NO EQUAL<br>SUBSTITUTIONS: OR EQUAL SUBJECT TO REVIEW NO EQUAL                                |
| LIX  | [Symbol] | [Sketch] | LED, ARCHITECTURAL WALL SCONCE, DARK BRONZE FINISH, SELF CONTAINED, WET LOCATION LISTED. 90 MINUTE BATTERY BACKUP. PROVIDE WITH VANDAL GUARD AS REQUIRED.<br>MOUNTING HEIGHT: PER PLAN INCLUDED<br>LAMP: 10A700/40K<br>VOLTAGE: LITHONIA: WST LED 2 10A700/40K SR4 MVOLT ELCV VG DDBXD<br>MANUFACTURER: OR EQUAL SUBJECT TO REVIEW NO EQUAL<br>SUBSTITUTIONS: OR EQUAL SUBJECT TO REVIEW NO EQUAL |

# COMcheck Software Version 4.0.0 Exterior Lighting Compliance Certificate

## Section 1: Project Information

Energy Code: 2009 IECC  
 Project Title: Rock Park Restrooms/Storage  
 Project Type: New Construction  
 Exterior Lighting Zone: 2 (Residential mixed use area)  
 Construction Site: 1515 S. Rock Blvd Sparks, NV 89502  
 Owner/Agent: James Sabero, PE  
 Designer/Contractor: JP Engineering, LLC  
 10597 Double R Blvd Reno, NV 89521  
 775-852-2337

## Section 2: Exterior Lighting Area/Surface Power Calculation

| A Exterior Area/Surface              | B Quantity | C Allowed Watts / Unit | D Tradable Watts (B x C) | E Allowed Watts (B x C) | F Proposed Watts (B x C) |
|--------------------------------------|------------|------------------------|--------------------------|-------------------------|--------------------------|
| Restroom Site (Piazza area)          | 1520 sq ft | 0.14                   | Yes 213                  | 270                     | 270                      |
| Total Tradable Watts =               |            |                        | 213                      | 270                     |                          |
| Total Allowed Supplemental Watts** = |            |                        | 600                      |                         |                          |

\*\*Wattage tradeoffs are only allowed between tradable areas/surfaces.  
 \*\*\*A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

## Section 3: Exterior Lighting Fixture Schedule

| Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast    | B Lamp/ Fixture | C # of Fixtures | D E Fixture Watt. (C x D) |
|---|-----------------|-----------------|---------------------------|
| Restroom Site (Piazza area 1520 sq ft): Tradable Wattage        |                 |                 |                           |
| LED 1: L1: See Fixture Schedule: LED Roadway-Parking Unit 54W:  | 1               | 3               | 54 162                    |
| LED 2: LIX: See Fixture Schedule: LED Roadway-Parking Unit 54W: | 1               | 2               | 54 108                    |
| Total Tradable Proposed Watts =                                 |                 |                 | 270                       |

## Section 4: Requirements Checklist

Lighting Wattage:  
 1. Within each non-tradable area/surface, total proposed watts must be less than or equal to total allowed watts. Across all tradable areas/surfaces, total proposed watts must be less than or equal to total allowed watts.  
 Compliance: Passes using supplemental allowance watts.

Controls, Switching, and Wiring:  
 2. All exemption claims are associated with fixtures that have a control device independent of the control of the nonexempt lighting.  
 3. Lighting not designated for dusk-to-dawn operation is controlled by either a photocell (with time switch), or an astronomical time switch.  
 4. Lighting designated for dusk-to-dawn operation is controlled by an astronomical time switch or photocell.  
 5. All time switches are capable of retaining programming and the time setting during loss of power for a period of at least 10 hours.

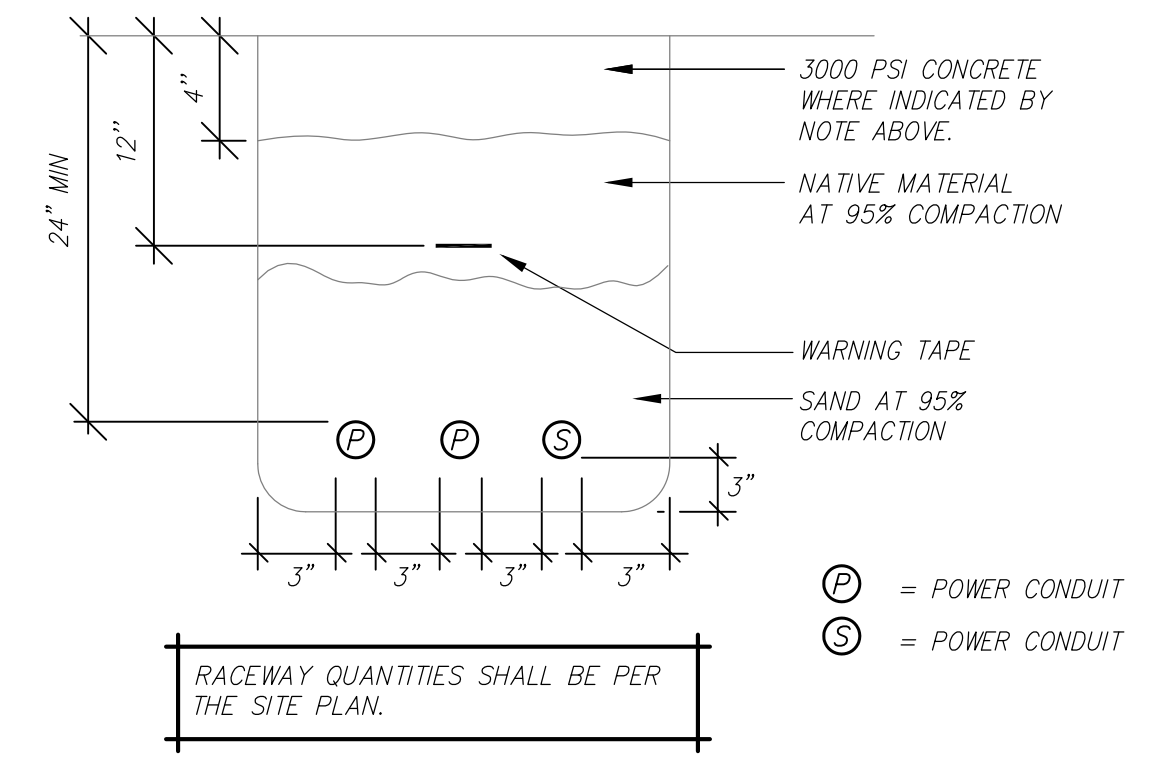
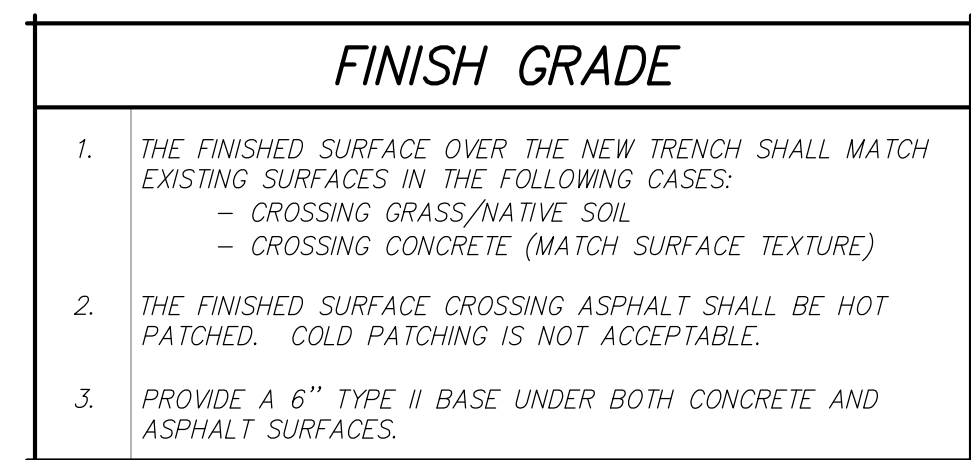
Exterior Lighting Efficacy:  
 6. All exterior building grounds luminaires that operate at greater than 100W have minimum efficacy of 80 lumens/watt.  
 Exceptions:  
 7. Lighting that has been claimed as exempt and is identified as such in Section 3 table above.  
 8. Lighting that is specifically designated as required by a health or life safety statute, ordinance, or regulation.  
 9. Emergency lighting that is automatically of during normal building operation.  
 10. Lighting that is controlled by motion sensor.

Project Title: Rock Park Restrooms/Storage  
 Date Issued: J:\2015\15035 - Rock Park Restroom\7\_Calculation\15035 IECC.docx  
 Report date: 05/20/15  
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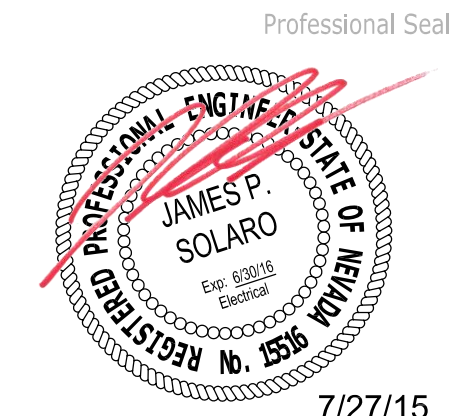
Section 5: Compliance Statement  
 Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2009 IECC requirements in COMcheck Version 4.0.0 and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title Signature Date

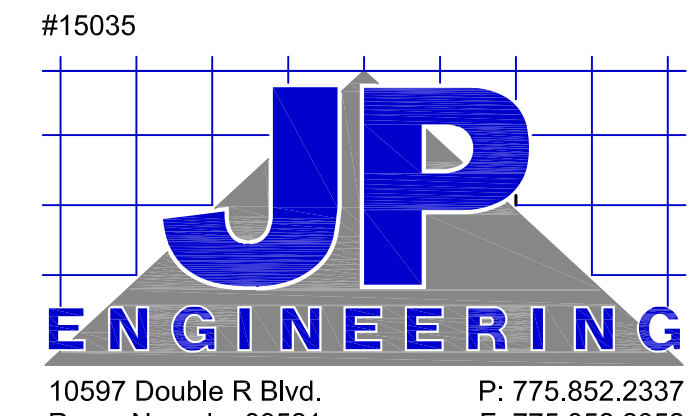
Project Title: Rock Park Restrooms/Storage  
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 Report date: 05/20/15  
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| E-EQUIPMENT, K-KITCHEN, L-LIGHTING, H-HHEAT, M-MOTOR, M-H MOTOR (LARGEST), R-RECEPTS | LOCATION  | EQUIPMENT ROOM                          |                              |
|--|-----------|---|------------------------------|
| DF DESCRIPTION   | LOAD      | BKR CIR A B CIR BKR LOAD DESCRIPTION DF |                              |
| L EXTERIOR LIGHTING  | 100 20/1  | 1 1500                                  | 2 20/1 1400 HAND DRYER E     |
| L INTERIOR LIGHTING  | 1030 20/1 | 3                                       | 4 20/1 1400 HAND DRYER E     |
| E EF-1   | 350 20/1  | 5 1250                                  | 6 20/1 900 STORAGE RECEPTS R |
| E H-1  | 750 20/1  | 7                                       | 8 20/1 700 CHASE / ATTIC R   |
| E SECURITRON PWR SPLY  | 500 20/1  | 9 500                                   | 10 20/1 SPARE                |
| SPARE  | 20/1      | 11                                      | 12 20/1 SPARE                |
| SPARE  | 20/1      | 13 0                                    | 14 20/1 SPARE                |
| SPACE  | 15        | 0                                       | 16 SPACE                     |
| SPACE  | 17 0      | 0                                       | 18 SPACE                     |
| SPACE  | 19        | 0                                       | 20 SPACE                     |
| SPACE  | 21 0      | 0                                       | 22 SPACE                     |
| SPACE  | 23        | 0                                       | 24 SPACE                     |
| SPACE  | 25 0      | 0                                       | 26                           |
| SPACE  | 27 0      | 0                                       | 28                           |
| SPACE  | 29 0      | 0                                       | 30                           |
| SPACE  | 31 0      | 0                                       | 32                           |
| SPACE  | 33 0      | 0                                       | 34                           |
| SPACE  | 35 0      | 0                                       | 36                           |
| SPACE  | 37 0      | 0                                       | 38                           |
| SPACE  | 39        | 0                                       | 40                           |
| 3250   |           | 3880                                    |                              |
| AMPS:  | 100       | NEUTRAL BUS:                            | 100%                         |
| VOLTAGE:   | 240       | GROUND BUS:                             | STANDARD                     |
| PHASE / WIRE:  | 1-PH .3W  | AIC RATING:                             | 10,000                       |
| MAIN:  |           | NEMA RATING:                            | 1                            |
| LUGS:  | MLO       | NET AMPS:                               | 30.9                         |
| MOUNTING:  | FLUSH     | Notes:                                  |                              |
| BUS:   | COPPER    | Panel LA                                |                              |
| DOOR:  | STANDARD  |   |                              |



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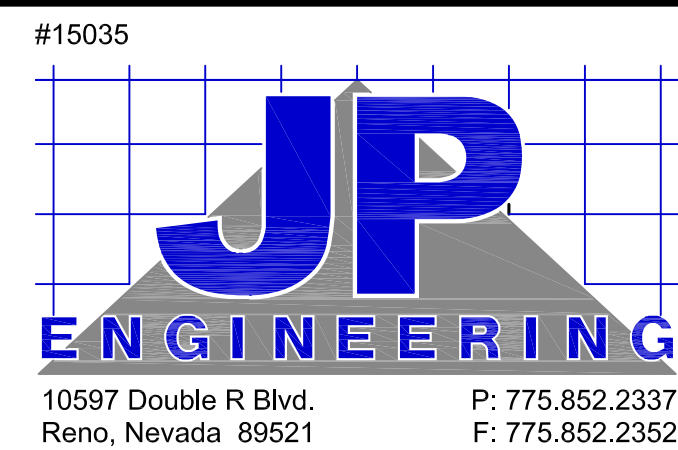
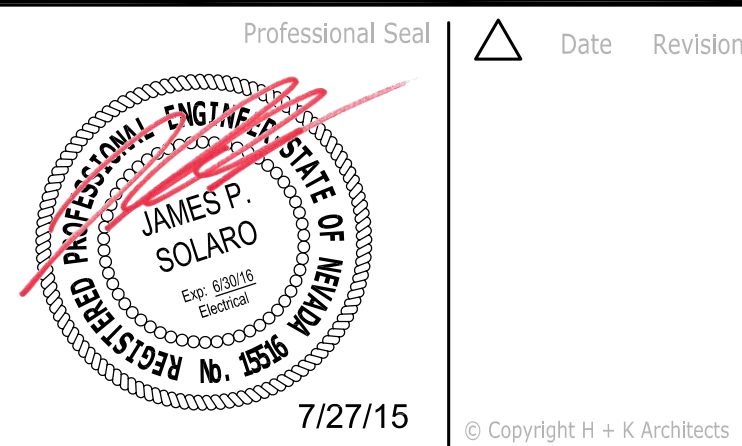
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Rock Park  
 Restroom and Storage Building  
 1515 S. Rock Blvd.  
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Panel & Fixture Schedule,  
 Single Line Diagram &  
 Lighting Compliance  
 July 27, 2015  
 H+K Project No.: 1504  
**E002**







Consultant

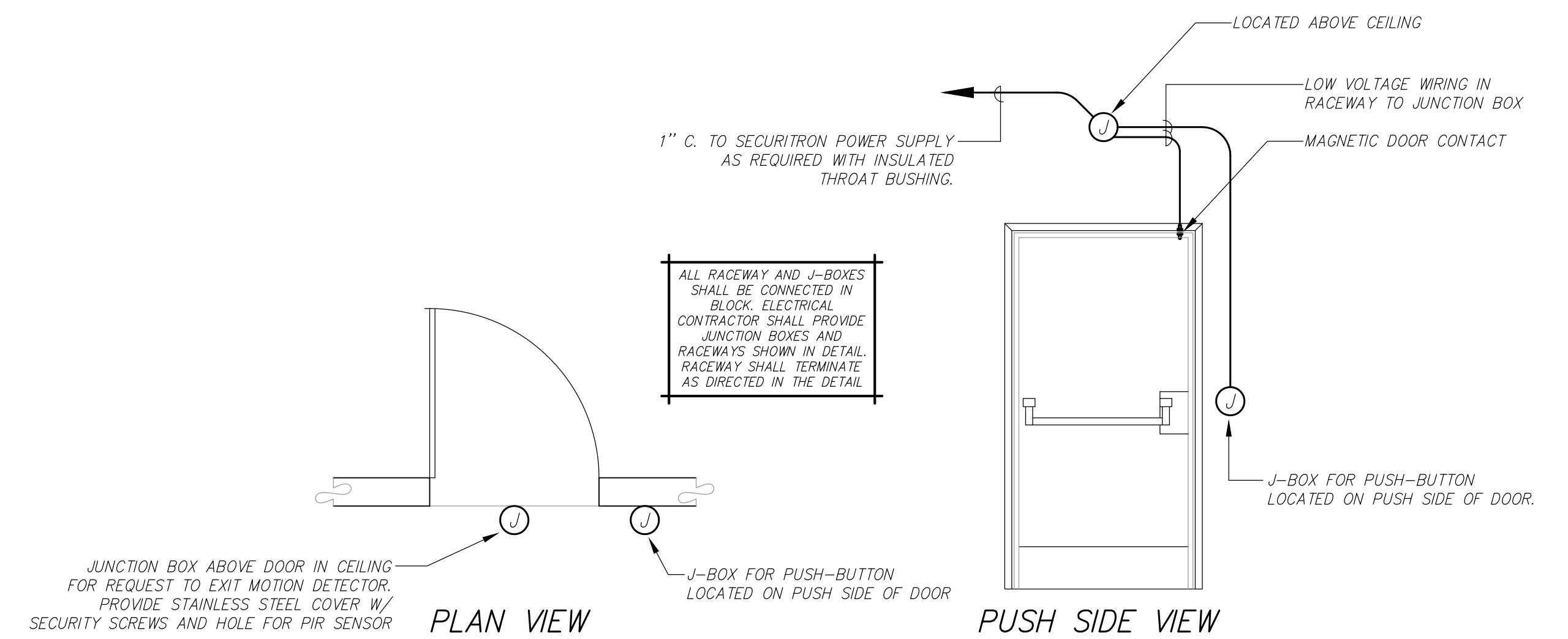
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**Rock Park  
 Restroom and Storage Building**  
 1515 S. Rock Blvd.  
 Sparks, NV 89502

Door Security Detail

July 27, 2015  
 H+K Project No.: 1504

**E003**



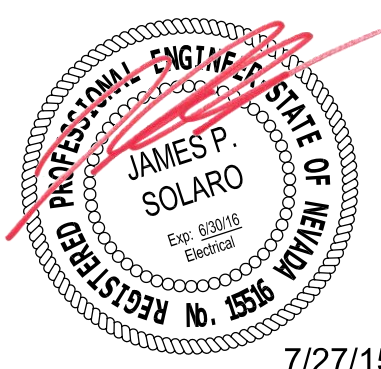
|      |   |
|------|---|
| A    | TYPICAL REQUEST TO EXIT INSTALLATION DETAIL |
| E003 | SCALE: NO SCALE                             |





|      |                             |   |
|------|-----------------------------|---|
| A    | <b>ELECTRICAL SITE PLAN</b> |  |
| E101 | SCALE: 1"=40'-0"            |   |

Professional Seal

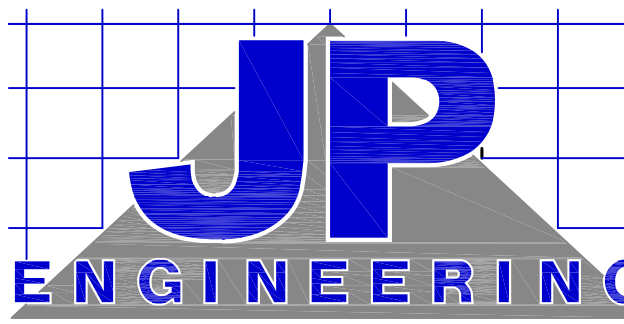


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**Rock Park  
Restroom and Storage Building**

1515 S. Rock Blvd.  
Sparks, NV 89502

Electrical Site Plan

July 27, 2015  
H+K Project No.: 1504

**E101**



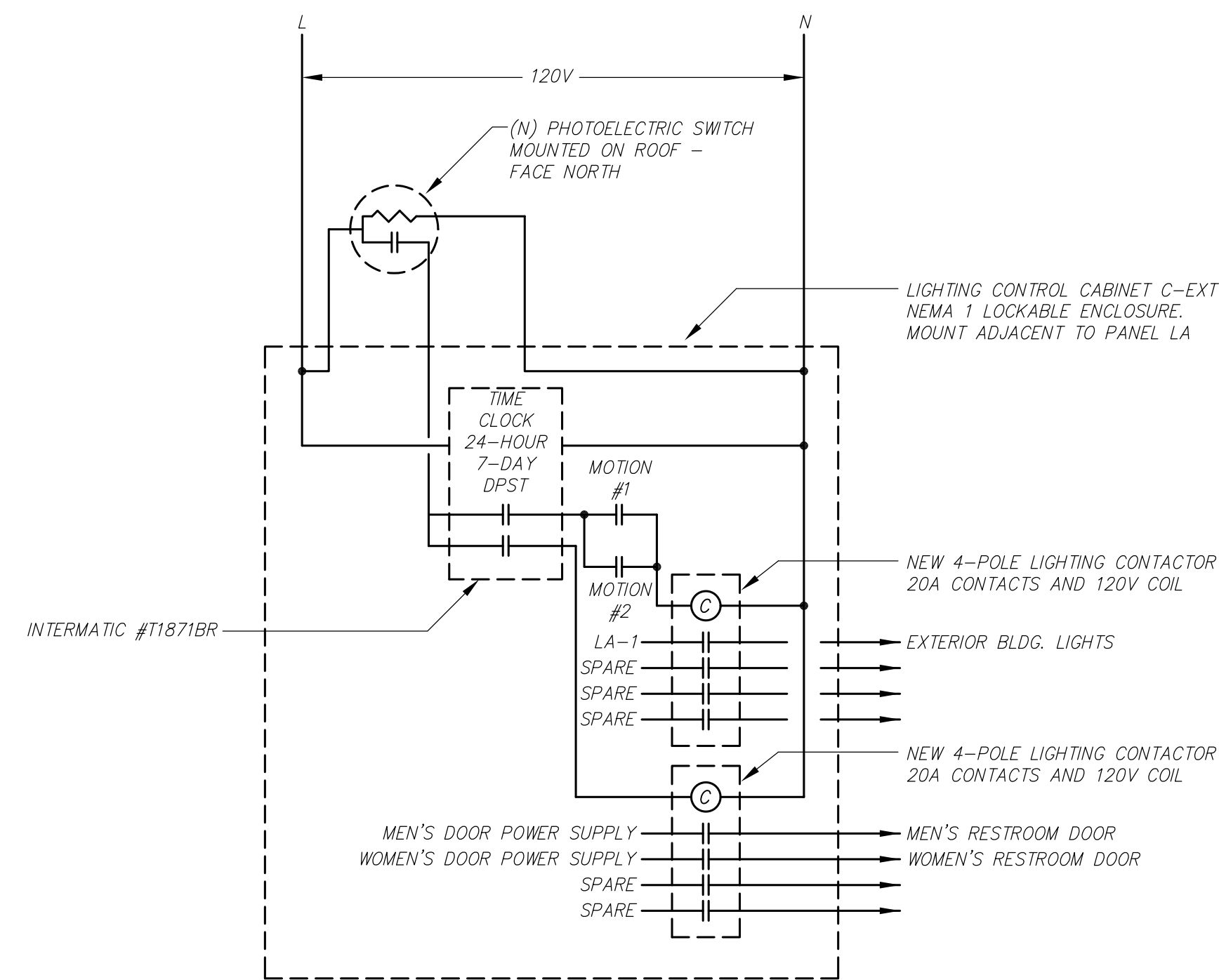


**GENERAL NOTES**

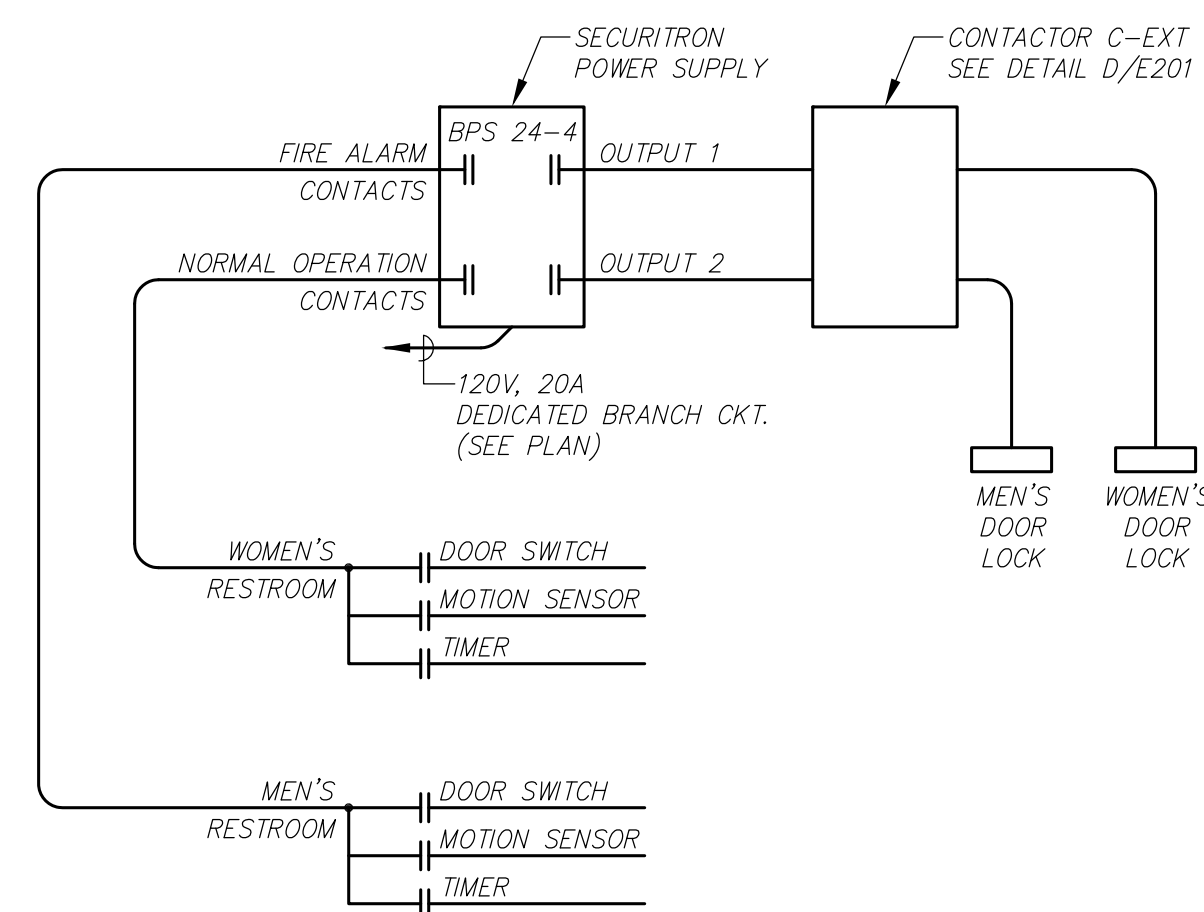
1. SURFACE MOUNTED RACEWAY WILL NOT BE ALLOWED. ALL RACEWAY INSTALLED FOR WALL MOUNTED DEVICES/EQUIPMENT SHALL BE ROUTED INSIDE BLOCK WALL.

**SHEET NOTES**

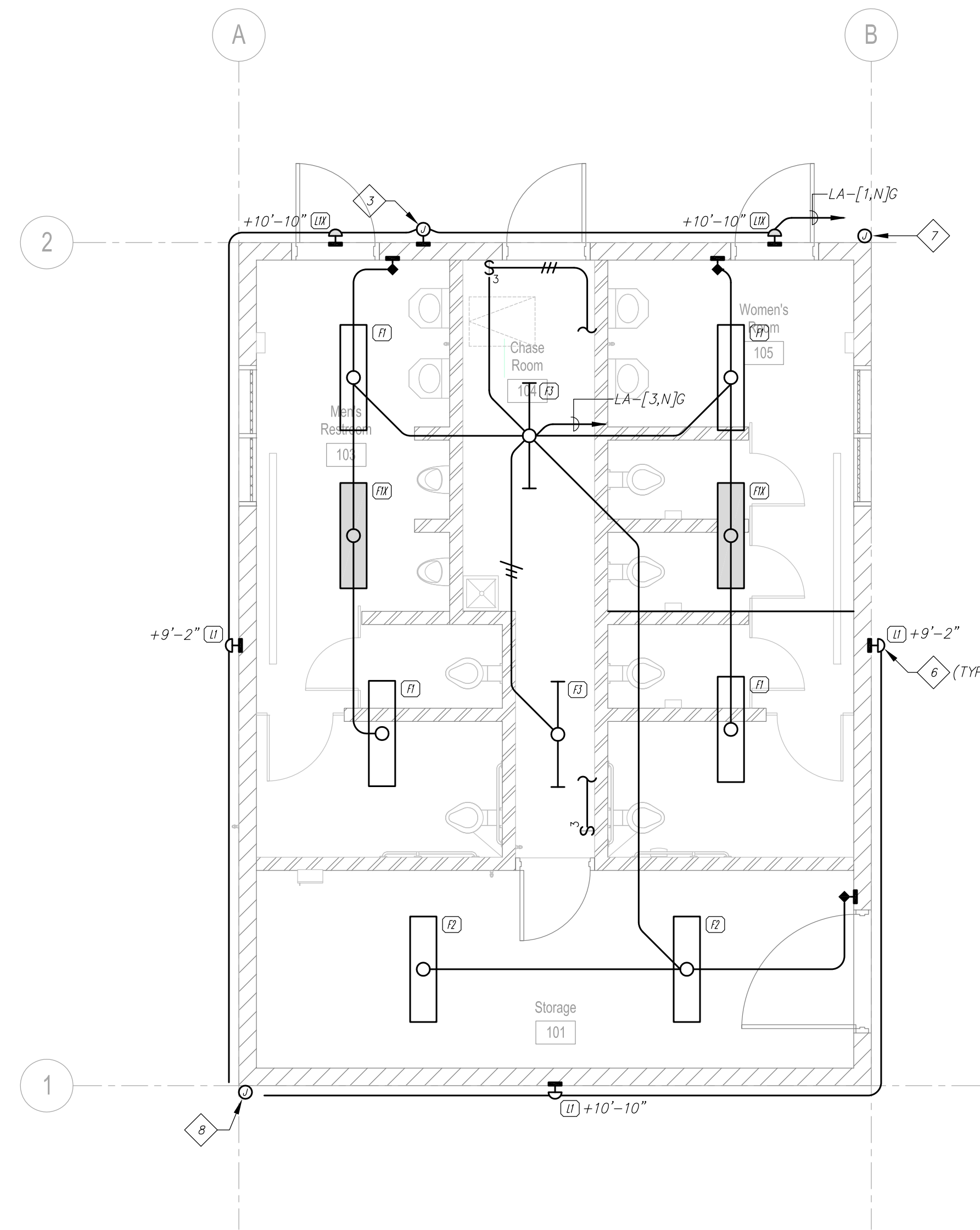
1. MOUNT SHUNT TRIP STATION AT 8'-6" AFF. VERIFY LOCATION WITH THE AHJ PRIOR TO ROUGH IN.
2. PROVIDE KEYLESS PORCELAIN FIXTURE BASE WITH 60-WATT EQUIVALENT FLUORESCENT LAMP AND WIRE GUARD ALONG WITH GFI RECEPTACLE AND SWITCH FOR CONTROL AT ATTIC ACCESS LOCATION FOR MECHANICAL UNIT SERVICE.
3. MOUNT PHOTOCELL AT EAVE ON NORTH SIDE. PROVIDE SHADE TO PREVENT FALSE SHUTDOWN DUE TO ADJACENT FIXTURE.
4. J-BOX FOR DOOR RELEASE PUSH BUTTON. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN. STUB 1" C. TO ABOVE ACCESSIBLE CEILING. TYPICAL OF 2.
5. J-BOX FOR REQUEST TO EXIT MOTION DETECTOR MOUNTED AT CEILING ABOVE DOOR. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN. STUB 1" C. TO ABOVE ACCESSIBLE CEILING. TYPICAL OF 2.
6. EXTERIOR WALL LIGHT FIXTURE SHALL BE MOUNTED ON SURFACE OF WALL. ALL BACK BOXES, RACEWAY, ETC. SHALL BE CONCEALED ON INTERIOR OF BLOCK. NO SURFACE MOUNTED CONDUIT OR RACEWAY SHALL BE ALLOWED. MOUNTING HEIGHT SHOWN ON DRAWING IS TO BE AT THE TOP OF FIXTURE TO MATCH CMU BLOCK COURSE HEIGHT.
7. PROVIDE J-BOX UNDER EAVE FOR MOUNTING OF MOTION DETECTOR VIA C-EXT CONTACTOR. MOTION DETECTOR SHALL PROVIDE COVERAGE ON NORTH AND EAST SIDES.
8. PROVIDE J-BOX UNDER EAVE FOR MOUNTING OF MOTION DETECTOR VIA C-EXT CONTACTOR. MOTION DETECTOR SHALL PROVIDE COVERAGE ON SOUTH AND WEST SIDES.



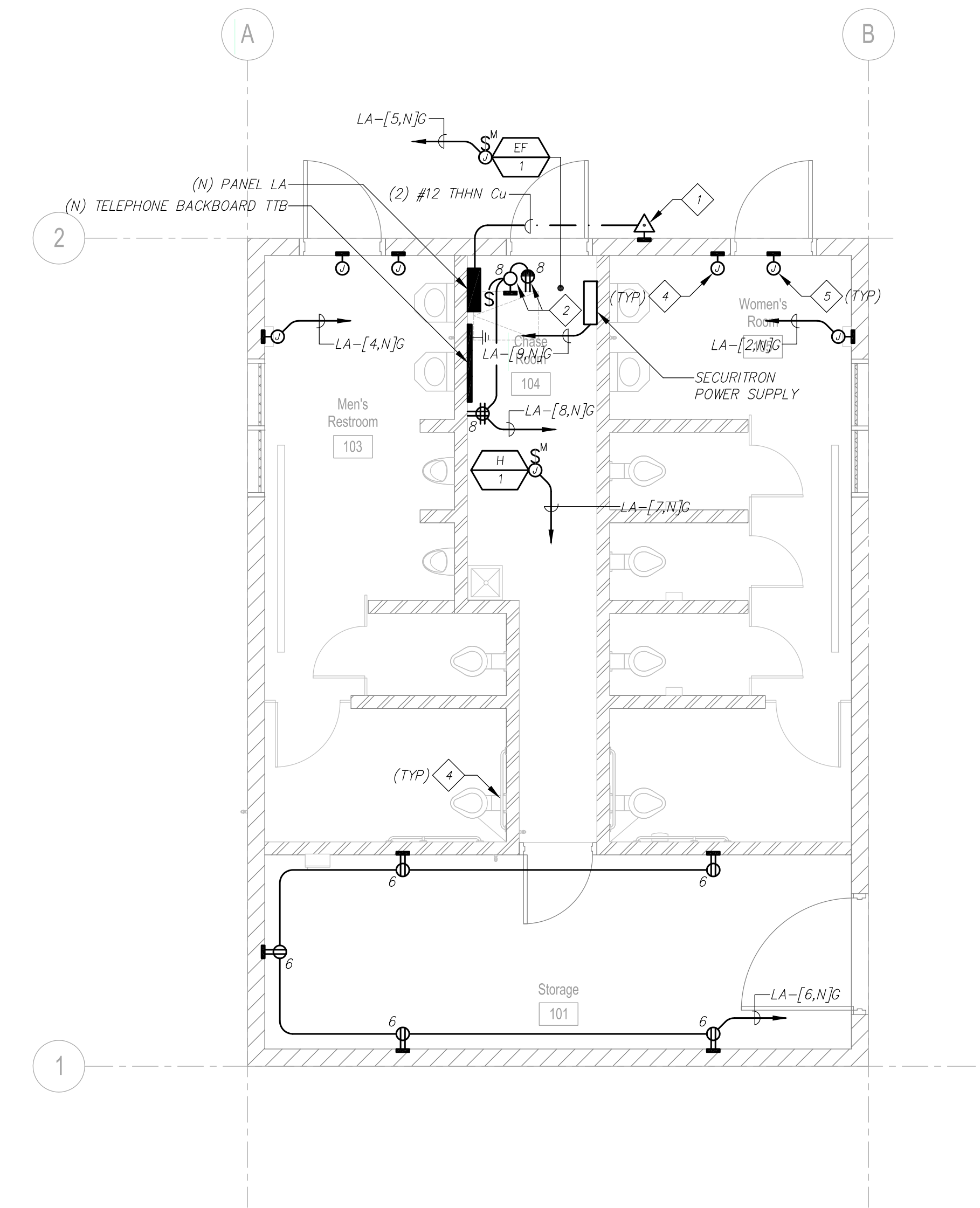
|      |                        |
|------|------------------------|
| D    | <b>CONTACTOR C-EXT</b> |
| E201 | SCALE: NOT TO SCALE    |



|      |                            |
|------|----------------------------|
| C    | <b>DOOR CONTROL DETAIL</b> |
| E201 | SCALE: NOT TO SCALE        |



|      |                      |
|------|----------------------|
| B    | <b>LIGHTING PLAN</b> |
| E201 | SCALE: 1/4" = 1'-0"  |



|      |                     |
|------|---------------------|
| A    | <b>POWER PLAN</b>   |
| E201 | SCALE: 1/4" = 1'-0" |

