

HERRIMAN CITY - CEMETERY RESTROOM BUILDING

ADDITIVE BID ALTERNATE 1
6018 W HERITAGE HILL DRIVE
HERRIMAN, UT

Project Narrative

THE PROPOSED PROJECT IS A 302 SF STAND-ALONE SINGLE STORY BUILDING CONSISTING OF TWO SINGLE-OCCUPANT RESTROOMS AND AN ASSOCIATED UTILITY ROOM. CONSTRUCTION SHALL INCLUDE UNIT MASONRY (STRUCTURAL AND FACING), ROUGH CARPENTRY, METAL ROOF SYSTEMS AND ACCESSORIES, DOORS AND HARDWARE, PAINTING AND SPECIAL COATINGS, TOILET ROOM ACCESSORIES, PLUMBING AND PLUMBING FIXTURES, MECHANICAL SYSTEMS, ELECTRICAL (POWER AND LIGHTING), AND EXTERIOR IMPROVEMENTS, SUCH AS CONCRETE SIDEWALKS.

Project Team

OWNER
Herriman City
5355 West Herriman Main Street
Herriman, Utah 84096

ARCHITECT
SH Architecture
868 S. McClelland St., #2
Salt Lake City, Utah 84102
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STRUCTURAL
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Salt Lake City, Utah 84102
801-486-3883

MECHANICAL
Olsen & Peterson, Inc.
14 East 2700 South
Salt Lake City, Utah 84115
801-486-4646

ELECTRICAL
BNA Consulting
635 South State Street
Salt Lake City, Utah 84111
801-532-2196

Sheet Index

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Location



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1/21/2019

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1-800-662-4111 AT
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OF ANY CONSTRUCTION.

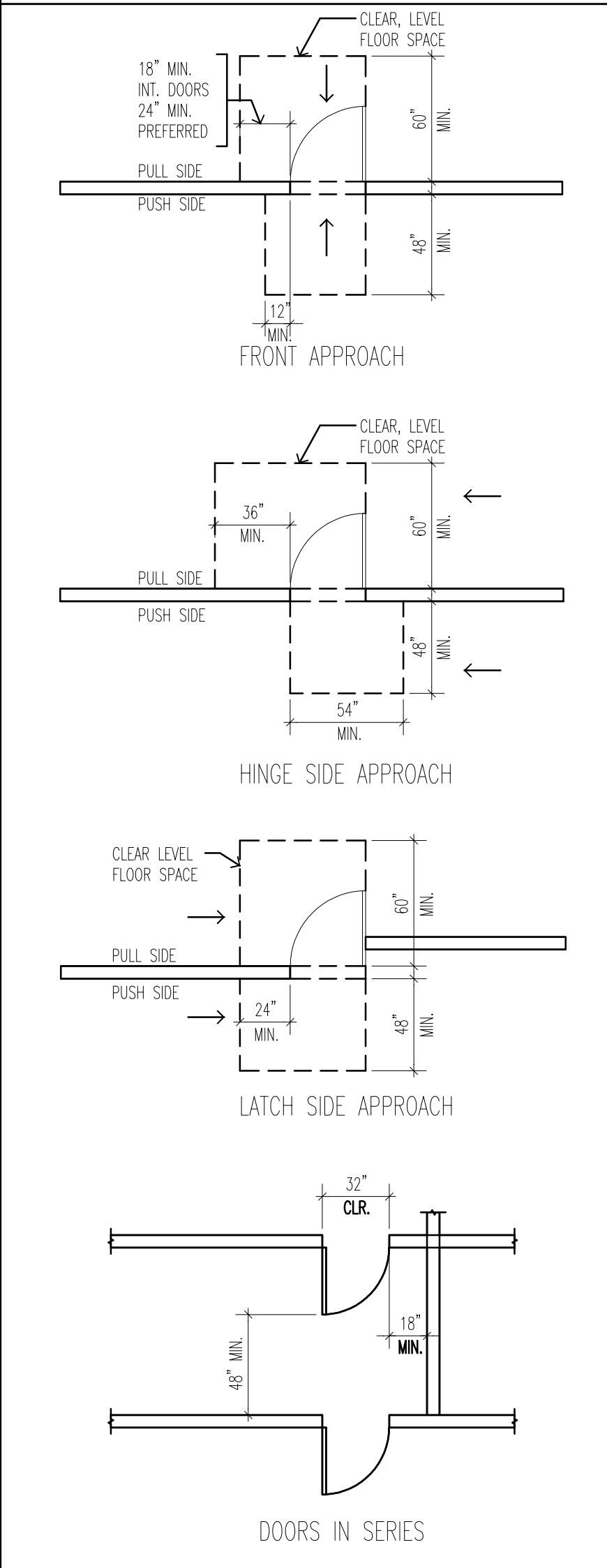
VERIFY SCALE
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HERRIMAN CITY
ENGINEERING DEPARTMENT
CEMETERY RESTROOM BUILDING
6018 W. HERITAGE HILL DRIVE
COVER SHEET

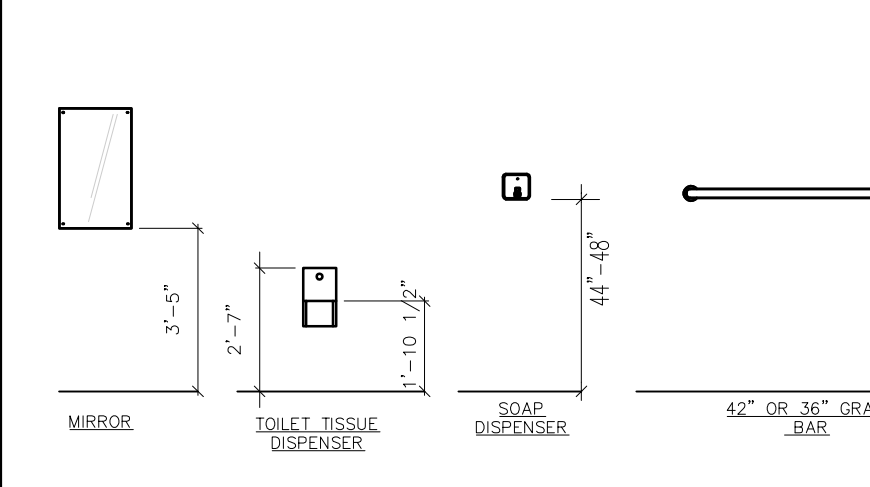
GI001

ACCESSIBILITY DIAGRAMS FOR COMMERCIAL / PUBLIC SPACES

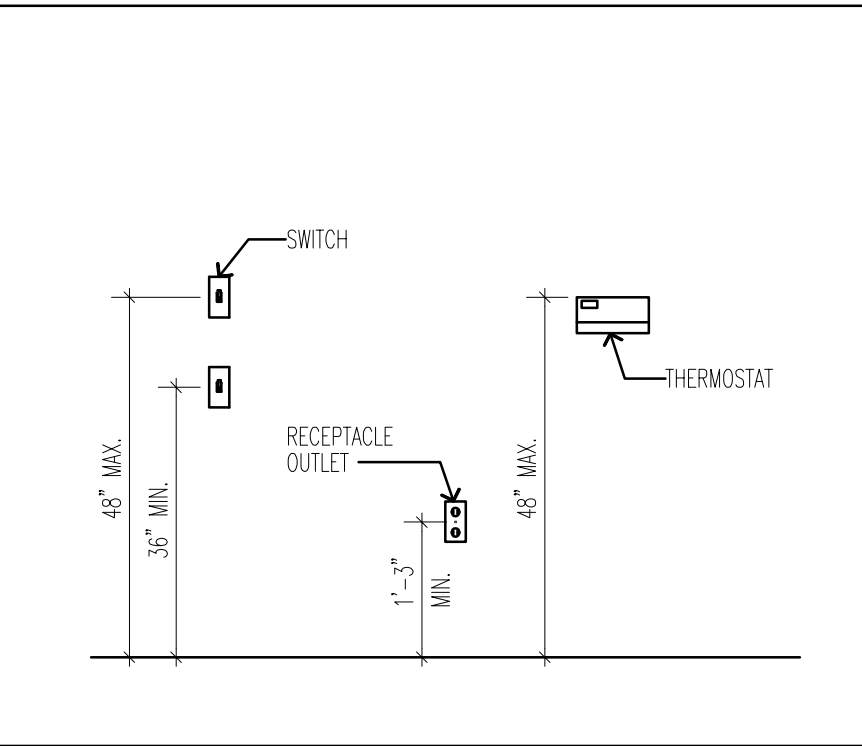


DOOR CLEARANCES

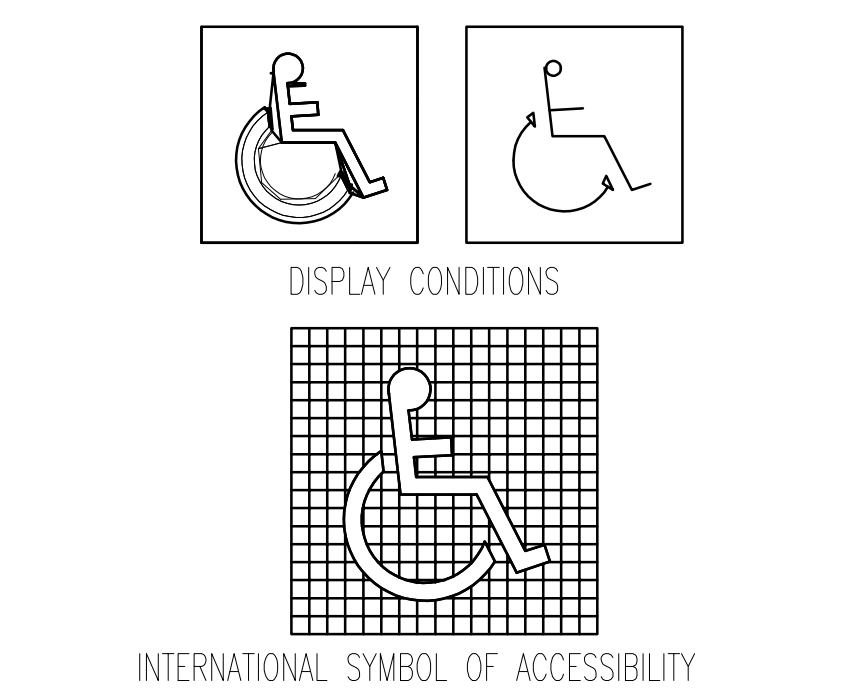
NOTE: VERIFY ALL ACCESSORY SIZE AND MOUNTING WITH MANUFACTURERS APPROVED CUT SHEETS
 TRAPS AND HOT WATER PIPES AT LAVS OR SINKS SET IN COUNTERS TO BE INSULATED.
 NOT ALL FIXTURES OR ACCESSORIES SHOWN ARE APPLICABLE TO THIS PROJECT - REFER TO PLANS ON SHEET AE101 AND INT. ELEVATIONS ON SHEET AE201 FOR SPECIFIC ITEMS, LOCATIONS AND SPECIAL CONDITIONS.



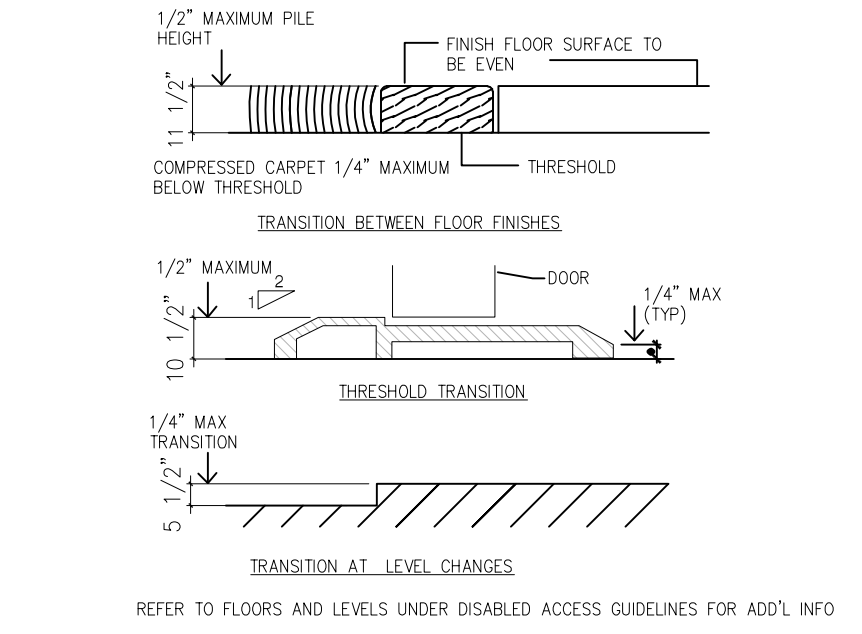
ACCESSORY MOUNTING HEIGHTS



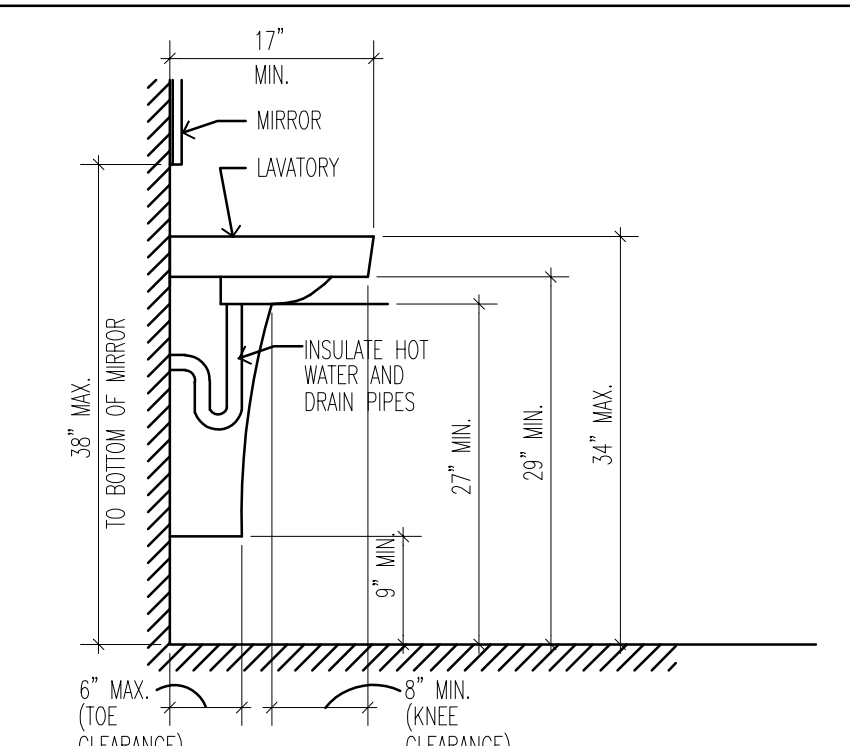
RECEPTACLES / SWITCHES



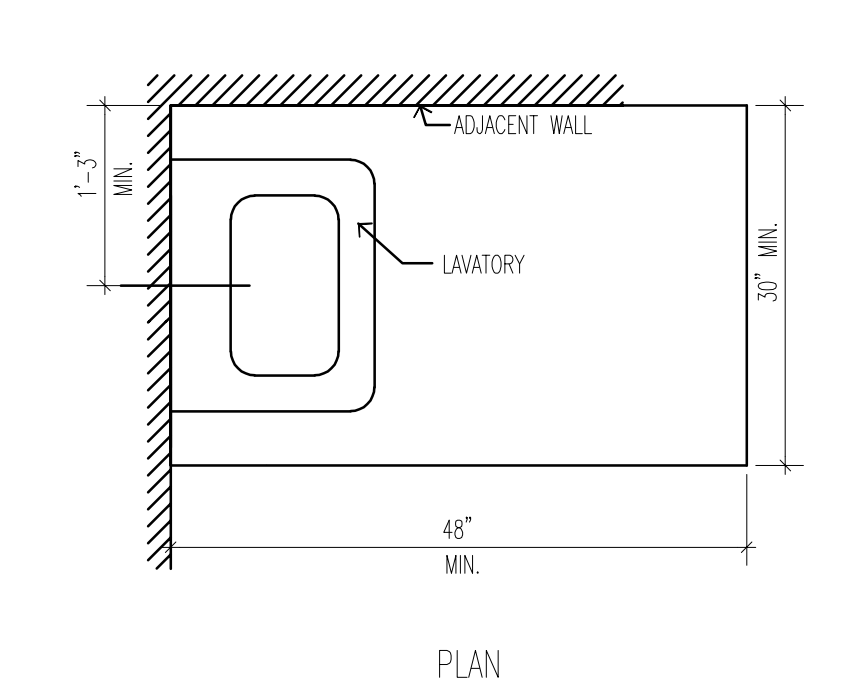
ACCESSIBILITY SYMBOL



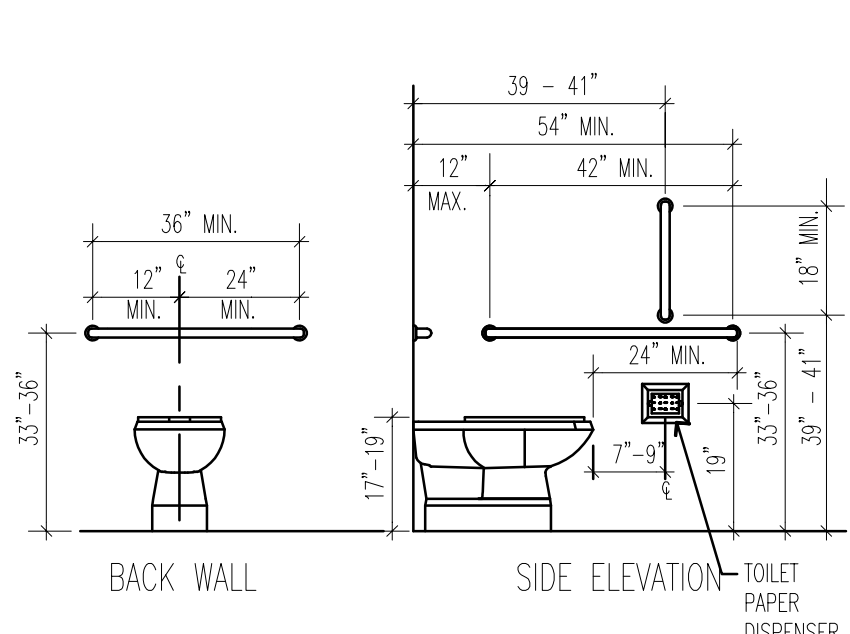
THRESHOLD / TRANSITIONS



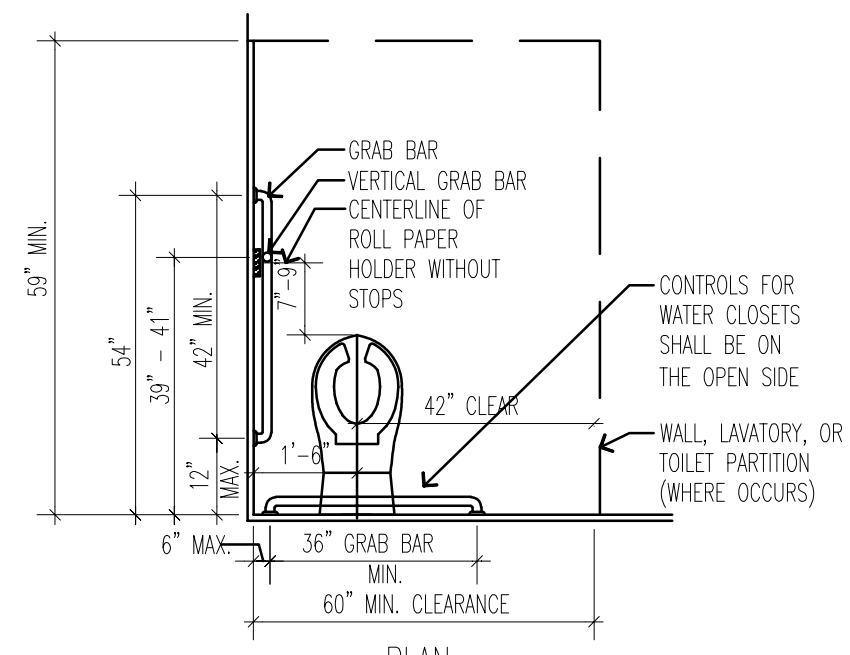
LAVATORY CLEARANCES



LAVATORY CLEARANCES



TOILET STALL CLEARANCES



TOILET STALL CLEARANCES

ABBREVIATIONS

| | |
|----------|---------------------------------------|
| ADA | AMERICANS WITH DISABILITIES ACT |
| A.F.F. | ABOVE FINISH FLOOR |
| ANSI | AMERICAN NATIONAL STANDARDS INSTITUTE |
| B.O. | BOTTOM OF |
| C.L. | CENTER LINE |
| CLNG. | CEILING |
| CONC. | CONCRETE |
| CONST. | CONSTRUCTION |
| CONT. | CONTINUOUS |
| COORD. | COORDINATE |
| CORRUG. | CORRUGATED |
| DEMO | DEMOLISH |
| DN. | DOWN |
| DTL. | DETAIL |
| EA | EACH |
| ELEC. | ELECTRICAL |
| ELECT. | ELECTRICAL |
| ELEV. | ELEVATION |
| EXIST. | EXISTING |
| F.F. | FINISH FLOOR |
| FIN. | FINISH |
| FP | FLOOR PLAN |
| F.R.P. | FIBER REINFORCED PLASTIC |
| FT. | FEET |
| GYP. BD. | GYPSUM BOARD |
| IBC | INTERNATIONAL BUILDING CODE |
| ICC | INTERNATIONAL CODE COUNCIL |
| INCL. | INCLUDED |
| LTG. | LIGHTING |
| MANUF. | MANUFACTURER |
| MECH. | MECHANICAL |
| MEZZ. | MEZZANINE |
| MFR. | MANUFACTURER |
| MIN. | MINIMUM |
| MTL. | METAL |
| N.I.C. | NOT IN CONTRACT |
| O.C. | ON CENTER |
| OPP. | OPPOSITE |
| PWR. | POWER |
| RCP | REFLECTED CEILING PLAN |
| REINF. | REINFORCED |
| REQ'D. | REQUIRED |
| SCHED. | SCHEDULE |
| SIM. | SIMILAR |
| S.S. | STAINLESS STEEL |
| STL. | STEEL |
| STOR. | STORAGE |
| STRUCT. | STRUCTURE |
| T.O. | TOP OF |
| TYP. | TYPICAL |
| U.N.O. | UNLESS NOTED OTHERWISE |
| UL | UNDERWRITERS LABORATORIES |
| UTIL. | UTILITY / UTILITIES |
| V.I.F. | VERIFY IN FIELD |

SYMBOL LEGEND

| | |
|---------|-------------------------------|
| | DATUM POINT |
| 100 | DOOR NUMBER |
| | WINDOW TAG |
| 101 | ROOM NUMBER |
| | ACCESSORY TAG |
| | EQUIPMENT TAG |
| | KEYNOTE |
| | NORTH ARROW |
| NORTH | NORTH |
| 12 5 | PITCH |
| | CEILING TAG |
| | FLOORING TAG |
| | ELEVATION TAG |
| 0 | GRID BUBBLE AND LINE |
| 0 | EXISTING GRID BUBBLE AND LINE |
| 0 | MATCH BUBBLE AND LINE |
| 1 Ref | INTERIOR ELEVATION TAG |
| 1 Ref | EXTERIOR ELEVATION TAG |
| 1 | REVISION TAG |
| 1 | BUILDING SECTION TAG |
| 1 | WALL SECTION TAG |

MATERIAL LEGEND

| | | | |
|--|------------------|--|------------------|
| | CONCRETE | | MASONRY |
| | SAND | | WOOD |
| | EARTH | | ALUMINUM |
| | STEEL | | RIGID INSULATION |
| | GRAVEL TYPE - I | | BATT INSULATION |
| | GRAVEL TYPE - II | | PLYWOOD |

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| 1/21/2019 | |
| CONSTRUCTION | |
| SUBMITTAL | |
| DRAWN BY: | 1/21/2019 |
| CHECKED BY: | 1/11/19 |
| APPROVED BY: | |
| RELEASE: | |
| PLOT DATE: | |
| CALL BUQUESTAKES 1-800-662-4111 AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. | |
| | |
| HERRIMAN CITY ENGINEERING DEPARTMENT CEMETERY RESTROOM BUILDING 6018 W. HERITAGE HILL DRIVE GENERAL NOTES & ADA GUIDE LINES | |
| GI002 | |

CODE INFORMATION

PROJECT INFORMATION:
 The proposed project is a 302 SF stand-alone single story building consisting of two single occupant restrooms, an associated utility room. Construction shall include unit masonry (structural and facing), rough carpentry, metal roof systems and accessories, doors and hardware, painting and special coatings, toilet room accessories, plumbing and plumbing fixtures, mechanical systems, electrical (power and lighting), and exterior improvements, such as concrete sidewalks.

| | | | |
|--------------------------------------|------|-------------------------------|------|
| Applicable Codes | Year | Year | |
| International Building Code | 2015 | International Mechanical Code | 2015 |
| International Existing Building Code | 2015 | International Plumbing Code | 2015 |
| International Fire Code | 2015 | Energy Code IECC | 2015 |
| ADA Accessibility Guidelines | | NEC Electrical Code | 2014 |
| IBC Chapter 11 | 2015 | | |
| A.N.S.I. Standard A117.1 | 2009 | | |

A. Occupancy and Group U occupancy
 Change In Use Yes _____ No X Mixed Occupancy Yes _____ No X

B. Type of Construction I I II II III III IV V V
 A B A B A B H.T. A B

C. Sprinklered None Existing

D. Location of Property F.R. Ext. Walls (Hrs.) 10' < 0 HR < 30' Ext. Wall Opening (s) Protection (Hrs.) 30' > UP.

E. Occupancy Separation Required (Hrs) None

F. Areas and Heights:
 Occupancy U
 Sprinklered Yes or (No)
 Actual Number of Stories/Height 1 Stories / 15.25 feet
 Tabular Building Height (Table 504.3) 55 feet
 Tabular Number of Stories (Table 504.4) 2
 Actual Area of Building (Combined Total) 302 S.F.
 Largest Floor Footprint (Main Floor) 302 S.F.
 Tabular Area per Floor (Table 506.2) 9,000 SF

G. Fire Resistive Requirements (Hrs)
 Exterior Bearing Walls 0 HR Floors - Ceiling Floors 0 HR
 Interior Bearing Walls 0 HR Roofs - Ceiling Roofs 0 HR
 Exterior Non-Bearing Walls 10' < 0 HR < 30' Exterior Doors and Windows AS REQ'D BY SECT. 7
 Structural Frame 0 HR Shaft Enclosures 2 HR
 Non Bearing Interior Walls 0 HR.

| BUILDING AND FLOOR AREAS | |
|--------------------------|----------------|
| FLOOR | SQ. FT (GROSS) |
| MAIN LEVEL | 302 sf |
| BUILDING TOTAL | 302 sf |

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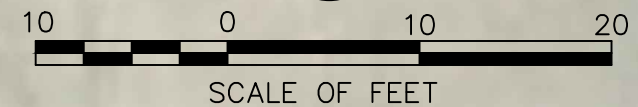
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HERRIMAN CITY
ENGINEERING DEPARTMENT
 CEMETERY RESTROOM BUILDING
 6018 W. HERITAGE HILL DRIVE
CODE INFORMATION

G1003

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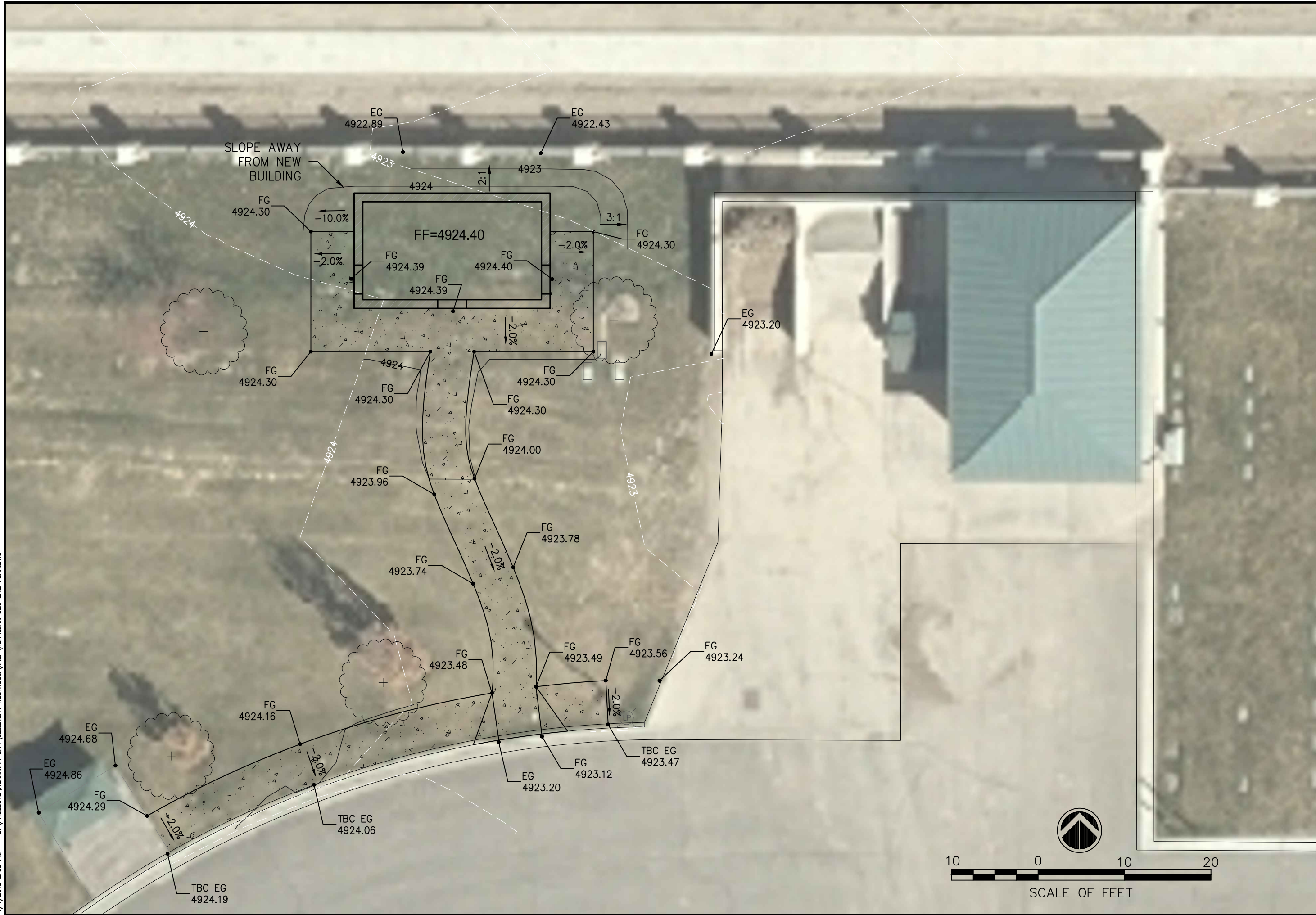
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 AND ARE SUBJECT TO CHANGE

| SUBMITTAL | ALN | JB | JB | DATE | 12/3/18 |
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HERRIMAN CITY
 ENGINEERING DEPARTMENT
 PRAIRIE OAKS PARK FACILITY
 SITE PLAN



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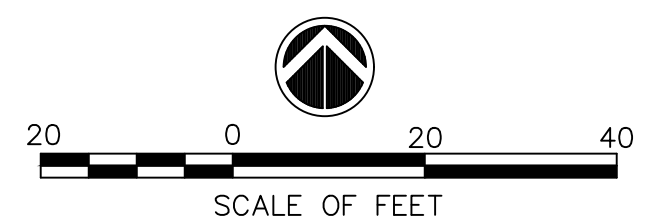
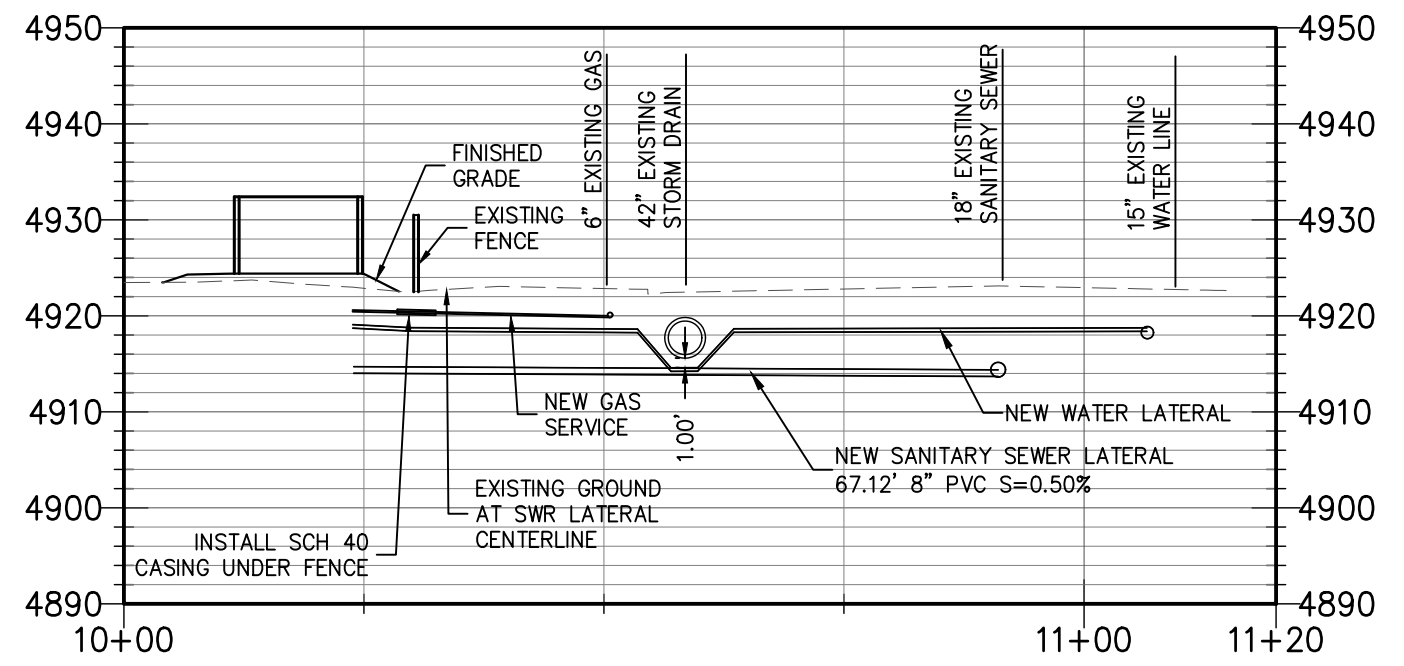
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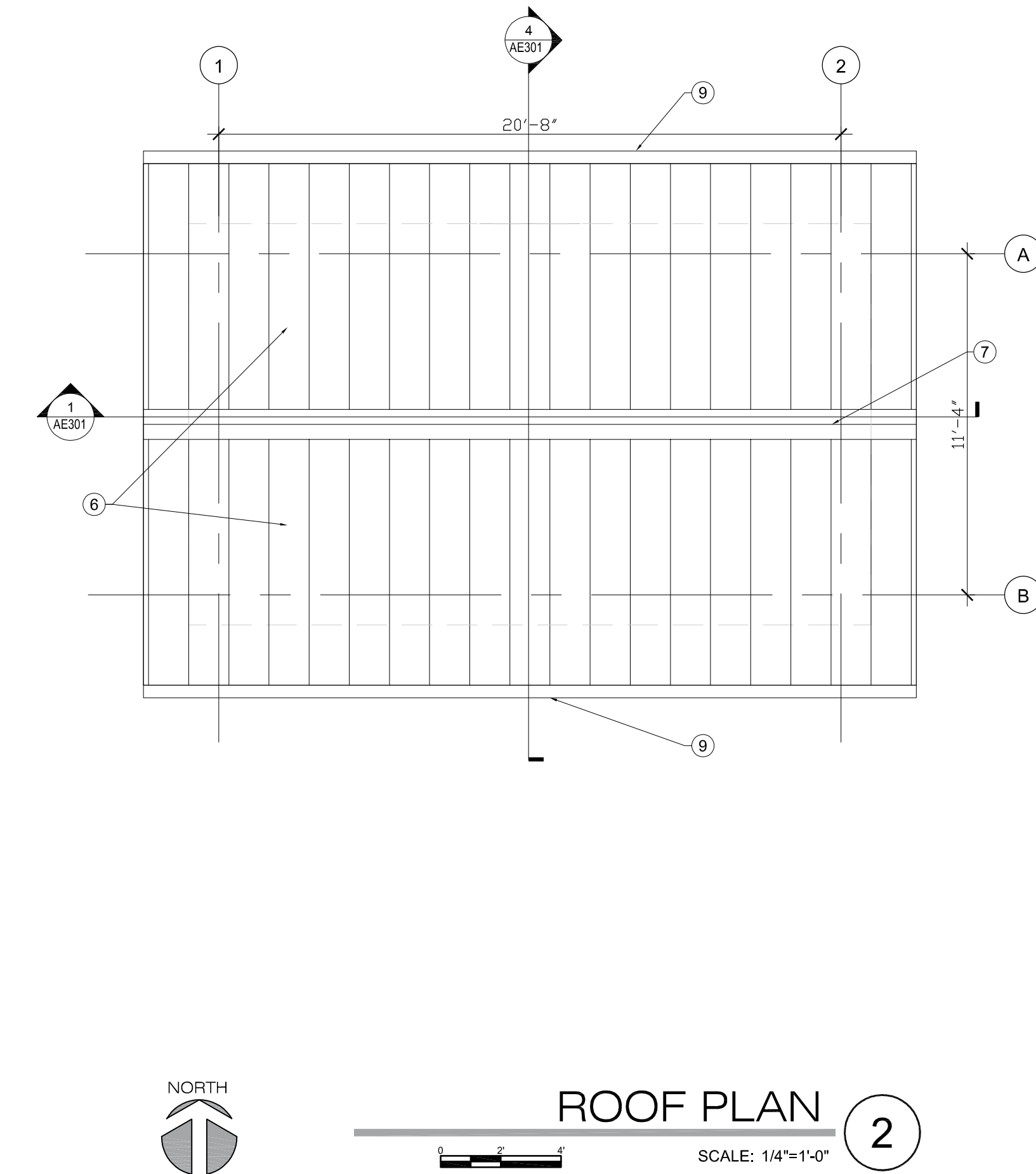
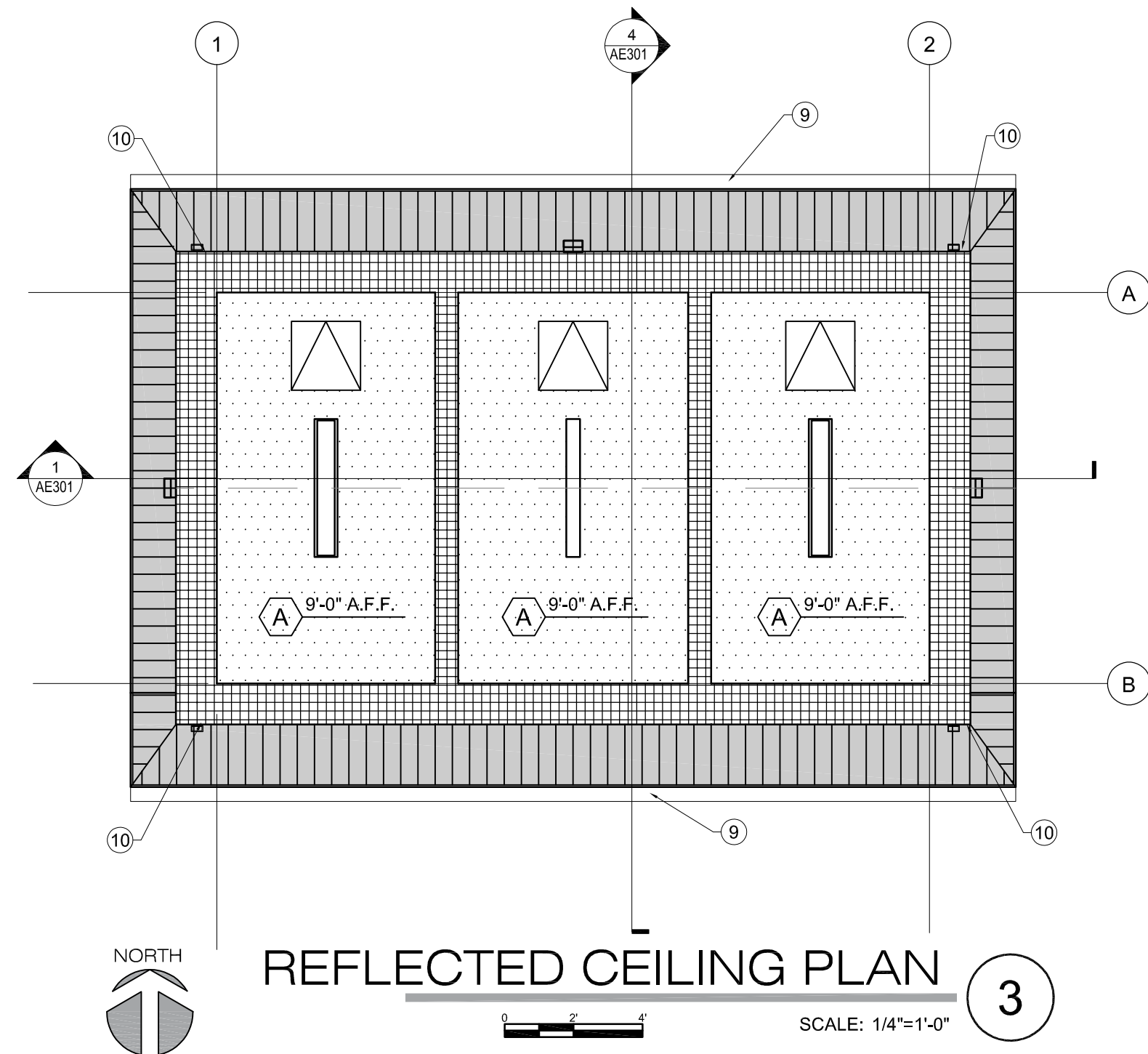
HERRIMAN CITY
ENGINEERING DEPARTMENT
 PRAIRIE OAKS PARK FACILITY

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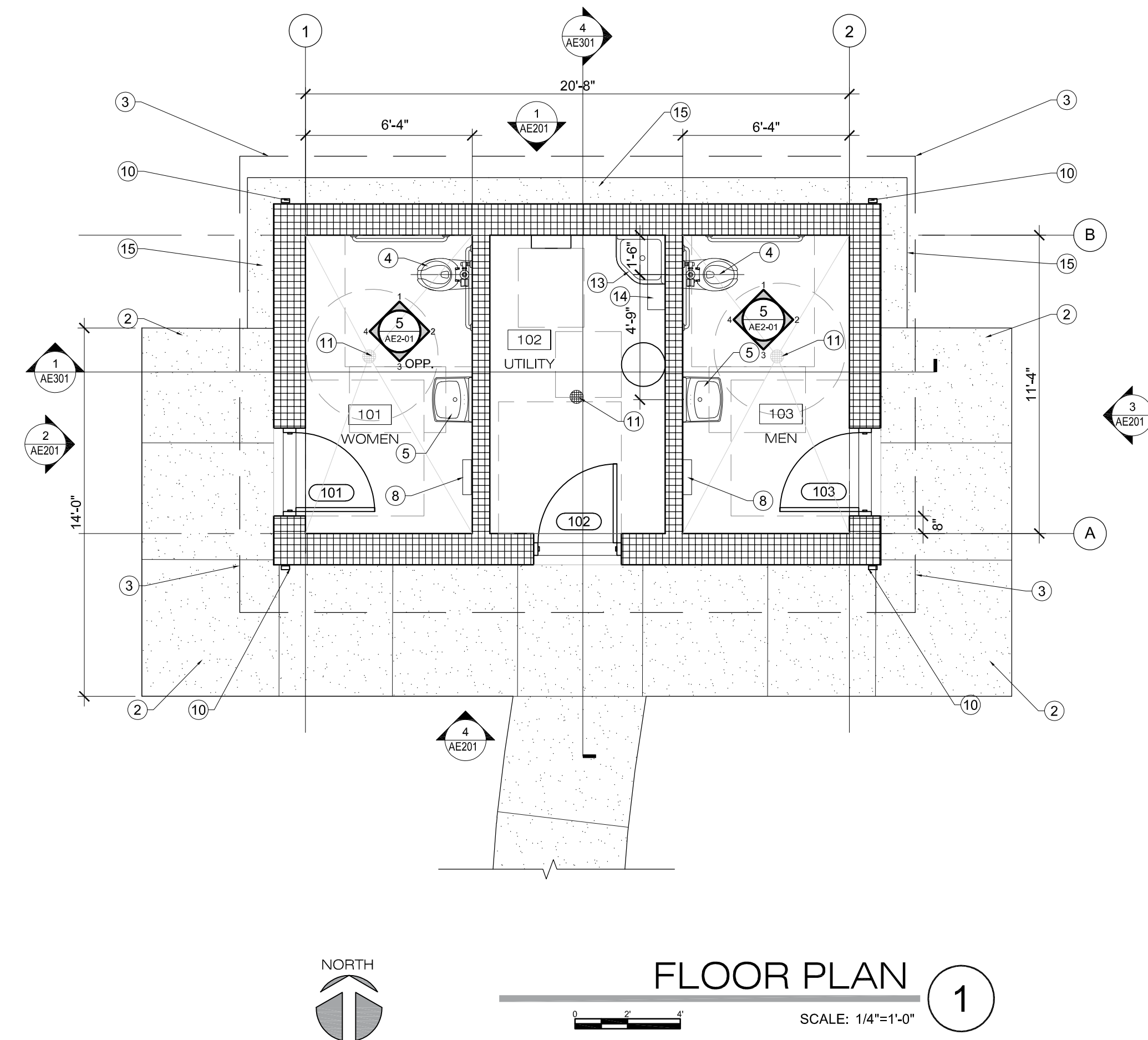
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| <p>HERRIMAN CITY ENGINEERING DEPARTMENT PRAIRIE OAKS PARK FACILITY</p> | | |
| <p>GRADING PLAN</p> | | |
| <p>3 OF 3</p> | | |

5/14/2018 5:42 PM L:\180179 HERRIMAN CITY CEMETERY RESTROOM BUILDING\EXECUTION DRAWINGS\ARCHITECTURAL\SHEETS\AE101 FLOOR PLAN.DWG



| FINISH SCHEDULE | | | | | | | | | |
|-----------------|---------|-------|------|-------|------|-------|------|---------|---------------------------|
| No. | ROOM | FLOOR | BASE | WALLS | | | | CEILING | NOTES |
| | | | | NORTH | EAST | SOUTH | WEST | | |
| 101 | WOMEN | F-02 | F-02 | P-01 | P-01 | P-01 | P-01 | C-01 | DOORS & FRAMES TO BE P-02 |
| 102 | UTILITY | F-01 | F-01 | P-01 | P-01 | P-01 | P-01 | C-01 | DOORS & FRAMES TO BE P-02 |
| 103 | MEN | F-02 | F-02 | P-01 | P-01 | P-01 | P-01 | C-01 | DOORS & FRAMES TO BE P-02 |

| FINISH KEY | | | | | | |
|------------|--------------------|--------------------|------|----------------|----------------|---|
| KEY | ITEM | MANUFACTURER | SIZE | PRODUCT # | COLOR NAME | COMMENT |
| F-01 | CONCRETE, SEALED | KELLY-MOORE PAINTS | - | 98 MULTI SEAL | ACRYLIC SEALER | 2-COAT SYSTEM (PRIMER & FINISH) |
| F-02 | EPOXY FLOOR SYSTEM | GENERAL POLYMERS | - | CERAMIC CARPET | TBD | 1/8" SYSTEM - FULL RANGE OF MFR. COLORS |
| P-01 | CMU, SEALED | KELLY-MOORE PAINTS | - | 98 MULTI SEAL | ACRYLIC SEALER | 2-COAT SYSTEM (PRIMER & FINISH) |
| P-02 | PAINT | SHERWIN WILLIAMS | - | TBD | TBD | - |
| C-01 | CEILING | SHERWIN WILLIAMS | - | TBD | TBD | - |



GENERAL NOTES

- ALL DIMENSIONS ARE TO FACE OF FINISHED FACE OR CENTER LINE OF GRIDS UNLESS NOTED OTHERWISE. ALL CLEAR DIMENSIONS ARE FROM FACE OF FINISH.
- PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO DIMENSIONS, UTILITY LOCATIONS AND UTILITY SIZES.
- SHOULD ANY CONDITION ARISE WHERE THE INTENT OF DRAWINGS ARE IN DOUBT OR THERE IS A DISCREPANCY BETWEEN DRAWINGS AND FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING FOR CLARIFICATION. RECORD ANY DISCREPANCY ON A REPRODUCIBLE DOCUMENT AND TRANSIT TO THE ARCHITECT FOR PROJECT RECORD, COORDINATION AND NECESSARY RESOLUTION PRIOR TO CONTINUING WORK.
- ALTHOUGH NOTES MAY BE GIVEN ONLY ONCE, MANY NOTES ARE TYPICAL FOR SIMILAR DETAILS AND CONDITIONS.
- SEE STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND COORDINATION.

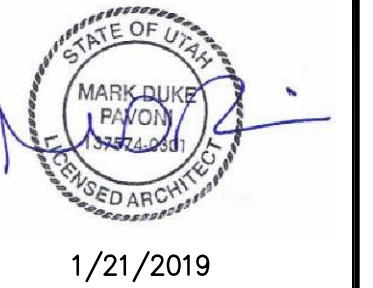
REFERENCE NOTES

- CONCRETE WALK BY OTHERS, COORD. WITH CIVIL.
- CONCRETE SIDEWALK, SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
- ROOF EAVE ABOVE
- WATER CLOSET, COORD. WITH PLUMBING.
- LAVATORY, COORD. WITH PLUMBING.
- PRE - FINISHED METAL STANDING SEAM ROOFING SYSTEM ON CONT. SELF ADHERENT UNDERLAYMENT
- PRE - FINISHED METAL RIDGE VENT.
- HAND DRYER, COORD. WITH ELECTRICAL.
- PRE - FINISHED METAL GUTTER.
- PRE - FINISHED METAL DOWN SPOUT.
- FLOOR DRAIN, COORD. WITH PLUMBING.
- TYPE 'X' GYPSUM BOARD ON TREATED 2x4 FRAMING @ 16" O.C., PAINT.
- CUSTODIAL SINK, COORD. WITH PLUMBING.
- UTILITY SHELF W/ MOP HOLDER, BOBRICK, B-239.
- 12" WIDE X 6" THICK CONCRETE MOW STRIP SLOPE AWAY FROM BUILDING.

LEGEND

- MASONRY WALL W/ VENEER, COORD. W/ STRUCTURAL
- NEW 4" CONCRETE SIDE WALK ON 4" WASHED GRAVEL COORD WITH CIVIL
- PAINTED 5/8" TYPE 'X' GYPSUM BOARD
- CONCRETE WALK BY OTHERS, COORD W/ CIVIL
- 24" X 24" CEILING ACCESS PANEL, PAINT COORDINATE FINAL LOCATION WITH OWNER
- # HEIGHT CEILING TAG

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1/21/2019

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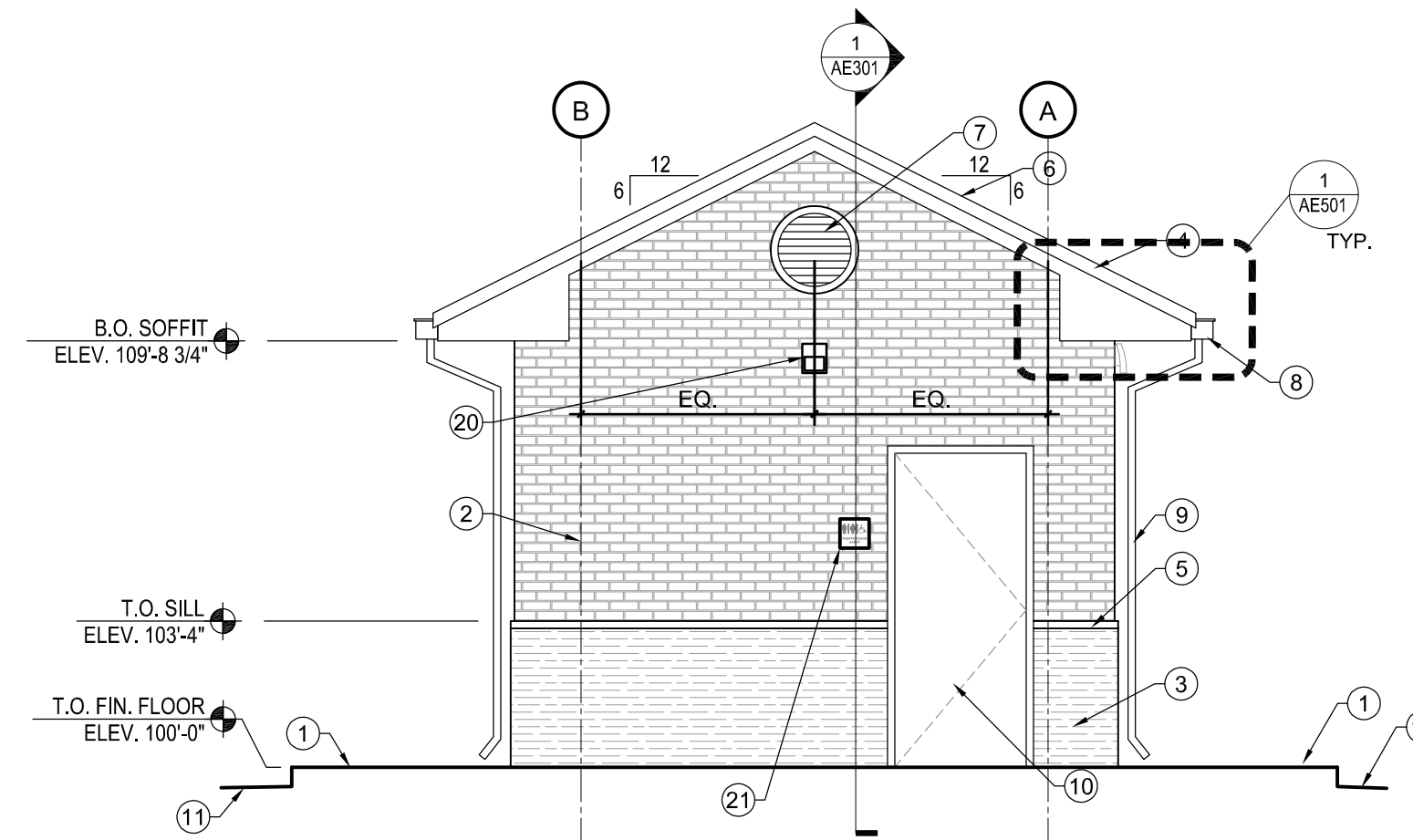
HERRIMAN CITY
ENGINEERING DEPARTMENT
CEMETERY RESTROOM BUILDING
6018 W. HERITAGE HILL DRIVE
FLOOR PLAN & ROOF PLAN

AE101

5/14/2018 5:42 PM L:\180179 HERRIMAN CITY CEMETERY RESTROOM BUILDING\EXECUTION DRAWINGS\ARCHITECTURAL SHEETS\AE201 ELEV.DWG

GENERAL NOTES

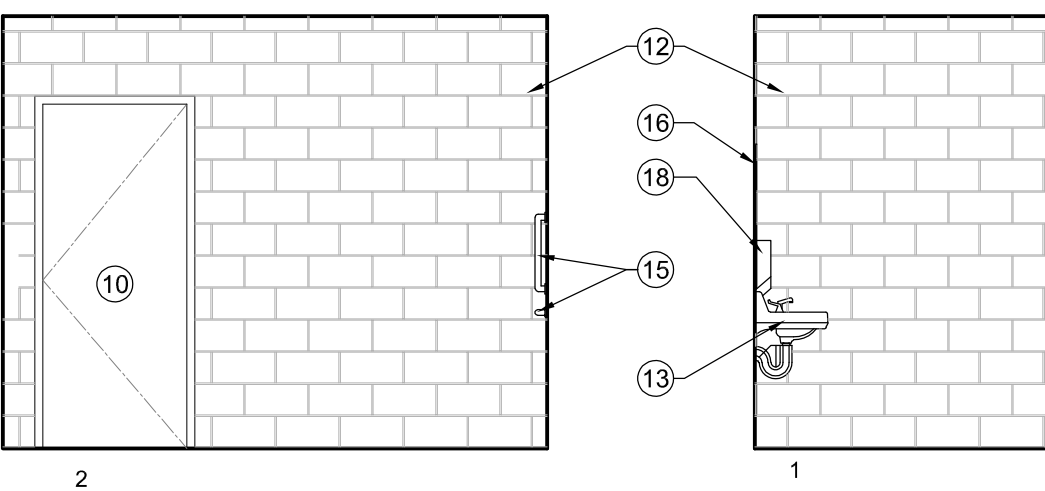
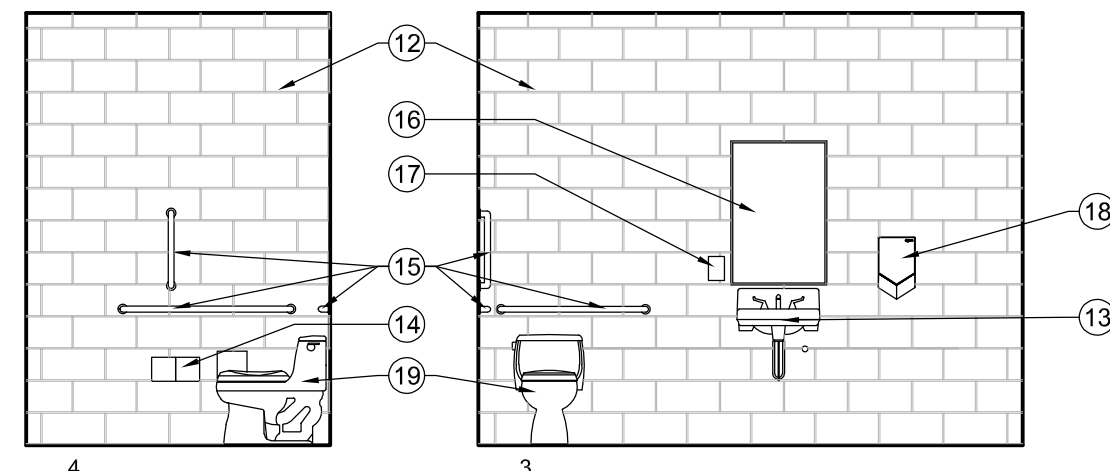
1. ALL DIMENSIONS ARE TO FACE OF FINISHED FACE OR CENTER LINE OF GRIDS UNLESS NOTED OTHERWISE. ALL CLEAR DIMENSIONS ARE FROM FACE OF FINISH.
2. PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO DIMENSIONS, UTILITY LOCATIONS AND UTILITY SIZES.
3. SHOULD ANY CONDITION ARISE WHERE THE INTENT OF DRAWINGS ARE IN DOUBT OR THERE IS A DISCREPANCY BETWEEN DRAWINGS AND FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING FOR CLARIFICATION, RECORD ANY DISCREPANCY ON A REPRODUCIBLE DOCUMENT AND TRANSIT TO THE ARCHITECT FOR PROJECT RECORD, COORDINATION AND NECESSARY RESOLUTION PRIOR TO CONTINUING WORK.
4. ALTHOUGH NOTES MAY BE GIVEN ONLY ONCE, MANY NOTES ARE TYPICAL FOR SIMILAR DETAILS AND CONDITIONS.
5. SEE STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND COORDINATION.



ELEVATION - WEST

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

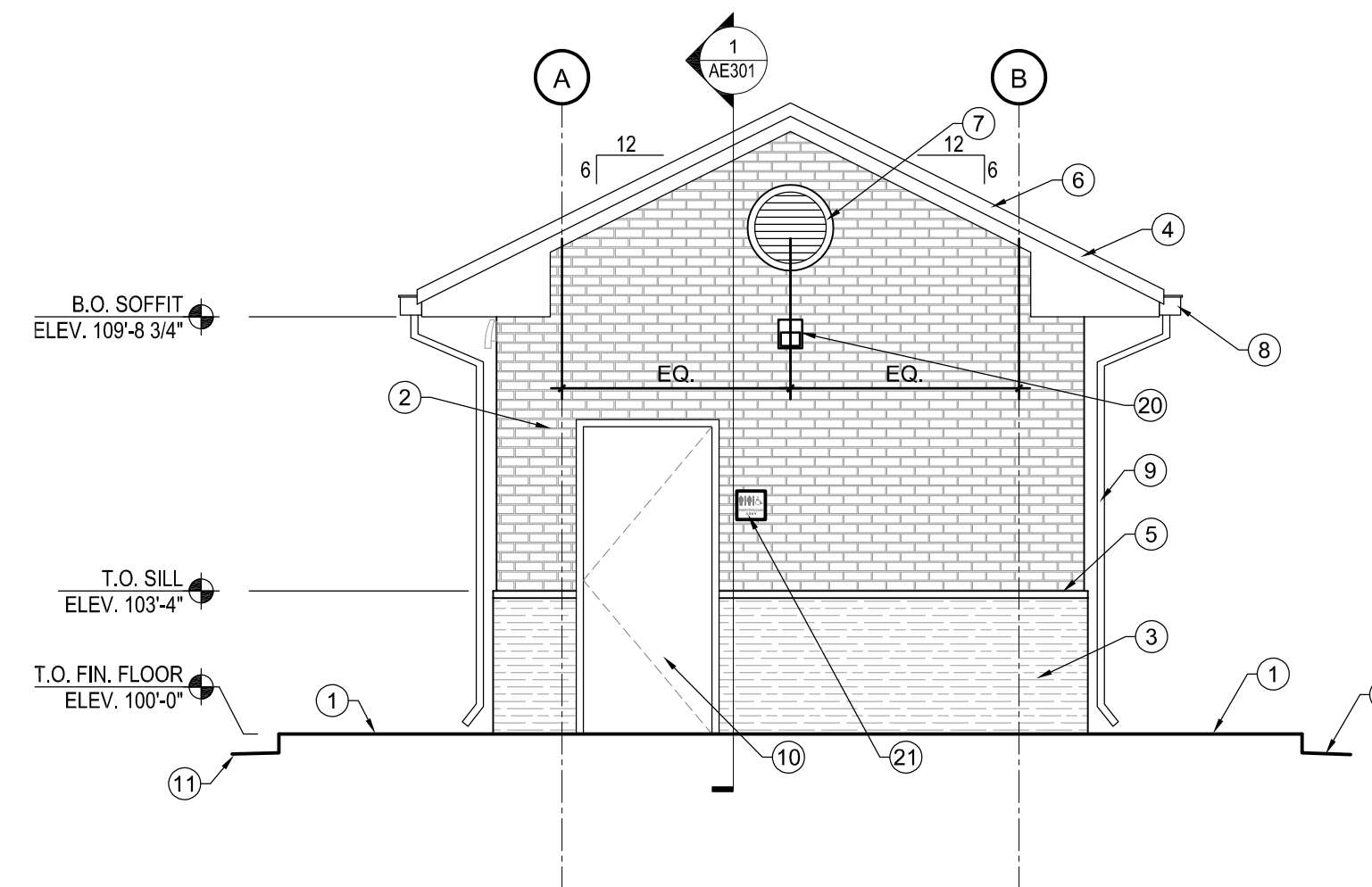
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INTERIOR ELEVATIONS - TYP.

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

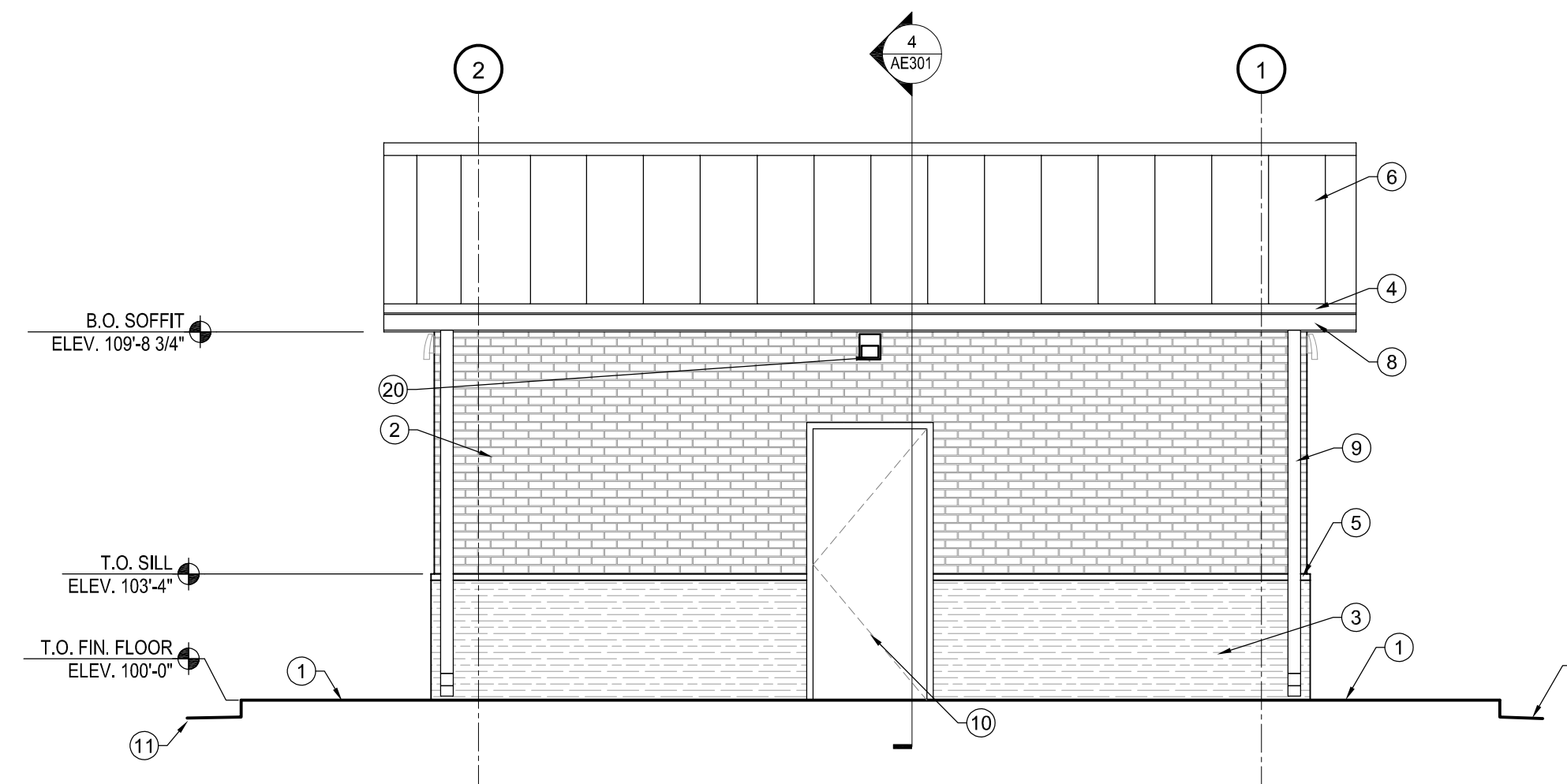
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ELEVATION - EAST

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

2



ELEVATION - NORTH

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

4

ELEVATION - SOUTH

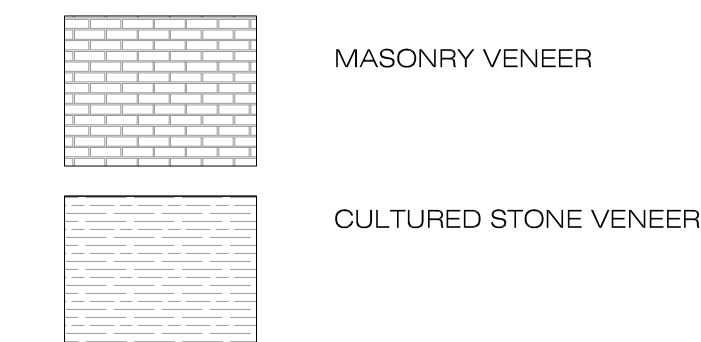
SCALE: 1/4"=1'-0"

1

REFERENCE NOTES

1. CONCRETE SIDEWALK COORDINATE W/ CIVIL.
2. BRICK VENEER
3. CULTURED STONE VENEER SYSTEM.
4. PRE FINISH METAL FASCIA.
5. PRECAST SILL.
6. PRE FINISH METAL STANDING SEAM ROOFING SYSTEM.
7. PRE - FINISHED METAL LOUVER. SEE DETAIL 6/AE601
8. PRE - FINISHED METAL GUTTER.
9. PRE - FINISHED METAL DOWNSPOUT.
10. DOOR AS SCHEDULED.
11. GRADE , COORDINATE WITH CIVIL.
12. HONED/COLORED CMU, SEALED.
13. LAVATORY W/ UNDER SINK PIPING PROTECTION.
14. TOILET PAPER DISPENSER, BOBRICK B-2892.
15. GRAB BAR, BOBRICK B-6806
16. MIRROR, BOBRICK B-1556, 24" X 36".
17. SOAP DISPENSER, BOBRICK B-2111.
18. ELECTRIC HAND DRYER, BOBRICK B-7128.
19. WATER CLOSET
20. EXTERIOR LIGHT FIXTURE '0A' COORDINATE WITH ELECTRICAL
21. ADA ACCESSIBILITY SIGN, SEE DETAIL 1/AE601

LEGEND



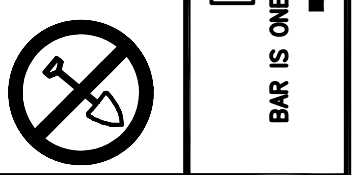
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1/21/2019

| CONSTRUCTION | DATE |
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CALL BLUESTAKES
1-800-662-4111 AT
LEAST 48 HOURS PRIOR
TO THE COMMENCEMENT
OF ANY CONSTRUCTION.
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING



HERRIMAN CITY
ENGINEERING DEPARTMENT
CEMETERY RESTROOM BUILDING
6018 W. HERITAGE HILL DRIVE
BUILDING EXTERIOR AND INTERIOR ELEVATIONS

AE201

REFERENCE NOTES

1. GRADE, COORDINATE W/ CIVIL.
2. CONCRETE FOOTING, COORD. W/ STRUCTURAL.
3. ROOF SHEATHING, COORD. W/ STRUCTURAL.
4. CONC. SLAB, COORD. W/ STRUCTURAL.
5. ROOF TRUSS SYSTEM, COORD. W/ STRUCTURAL.
6. PRE-FINISHED METAL STANDING SEAM ROOFING SYSTEM W/ CONT. SELF-ADHERENT UNDERLAYMENT.
7. MASONRY VENEER.
8. CONT. 1" AIR GAP.
9. PRECAST CONCRETE SILL.
10. CONCRETE MASONRY UNIT, COORD. W/ STRUCTURAL.
11. CULTURED STONE VENEER.
12. COMPACTED GRAVEL, COORD. W/ STRUCTURAL.
13. 5/8" TYPE 'X' GYP. ON TREATED 2x4 FRAMING @ 16" O.C..
14. PRE-FINISHED METAL LOUVER.
15. DOOR - SEE DOOR SCHEDULE.
16. PRE-FINISHED METAL DOWN SPOUT, RECTANGULAR.
17. CONCRETE SIDEWALK ON COMPACTED/WASHED GRAVEL, COORD. W/ CIVIL.
18. 2x FRAMING @ 16" O.C.
19. NOT USED
20. LAVATORY W/ UNDERSINK PIPING PROTECTION, COORD. W/ PLUMBING.
21. EPOXY FLOOR & BASE FINISH.
22. CONT. BITUMINOUS DAMP PROOFING
23. 2" RIGID INSULATION.
24. R38 UNFACED BATT INSULATION

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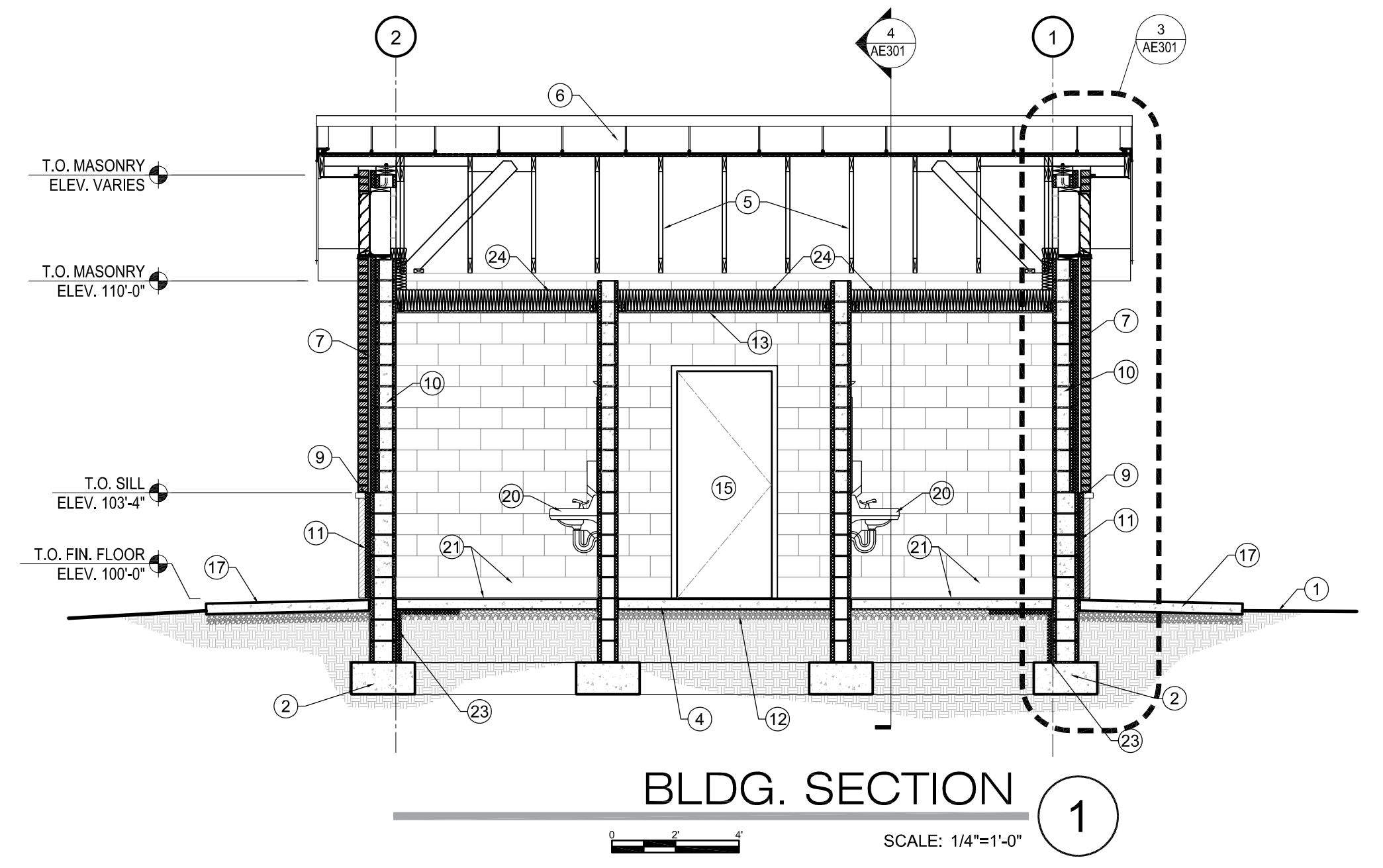
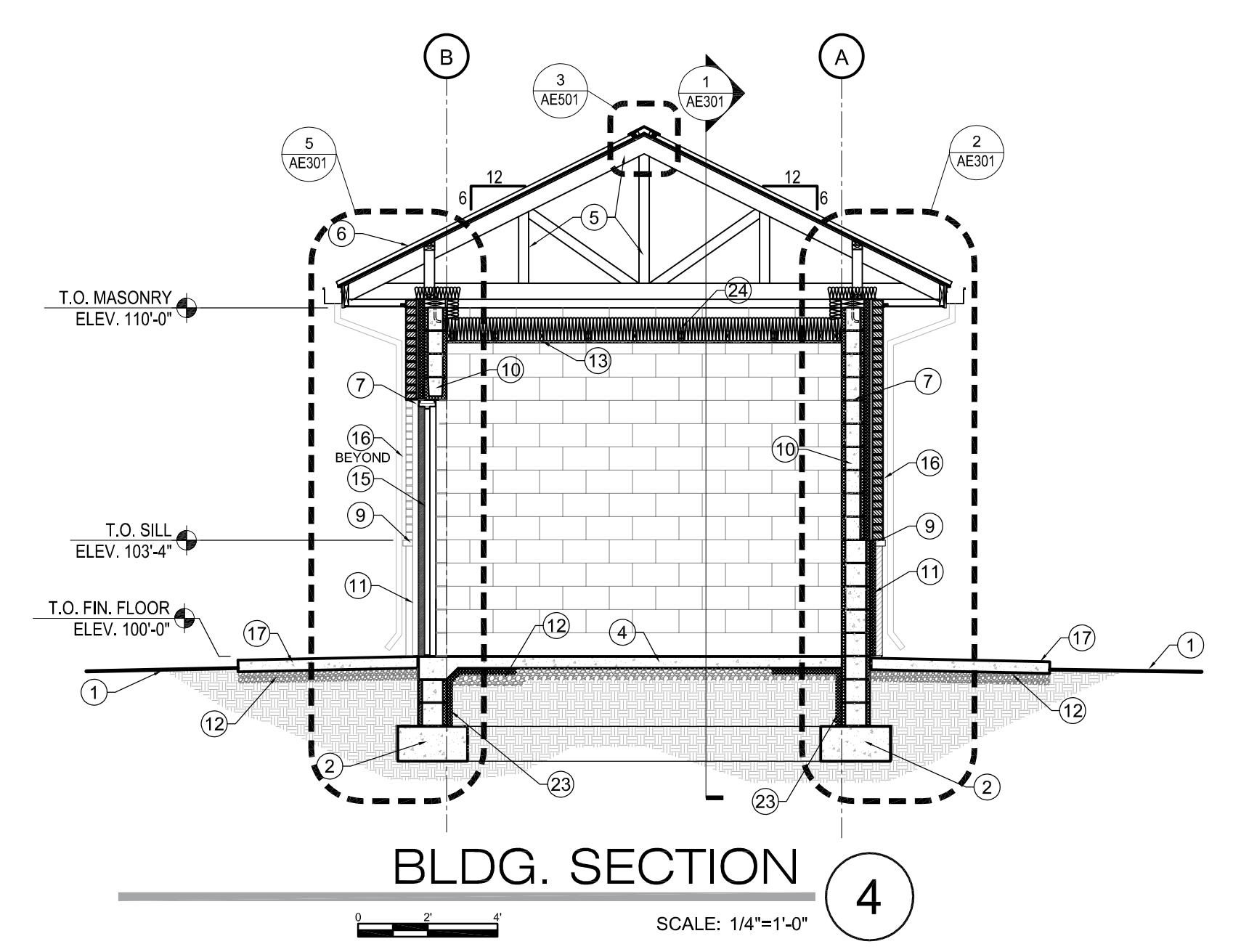
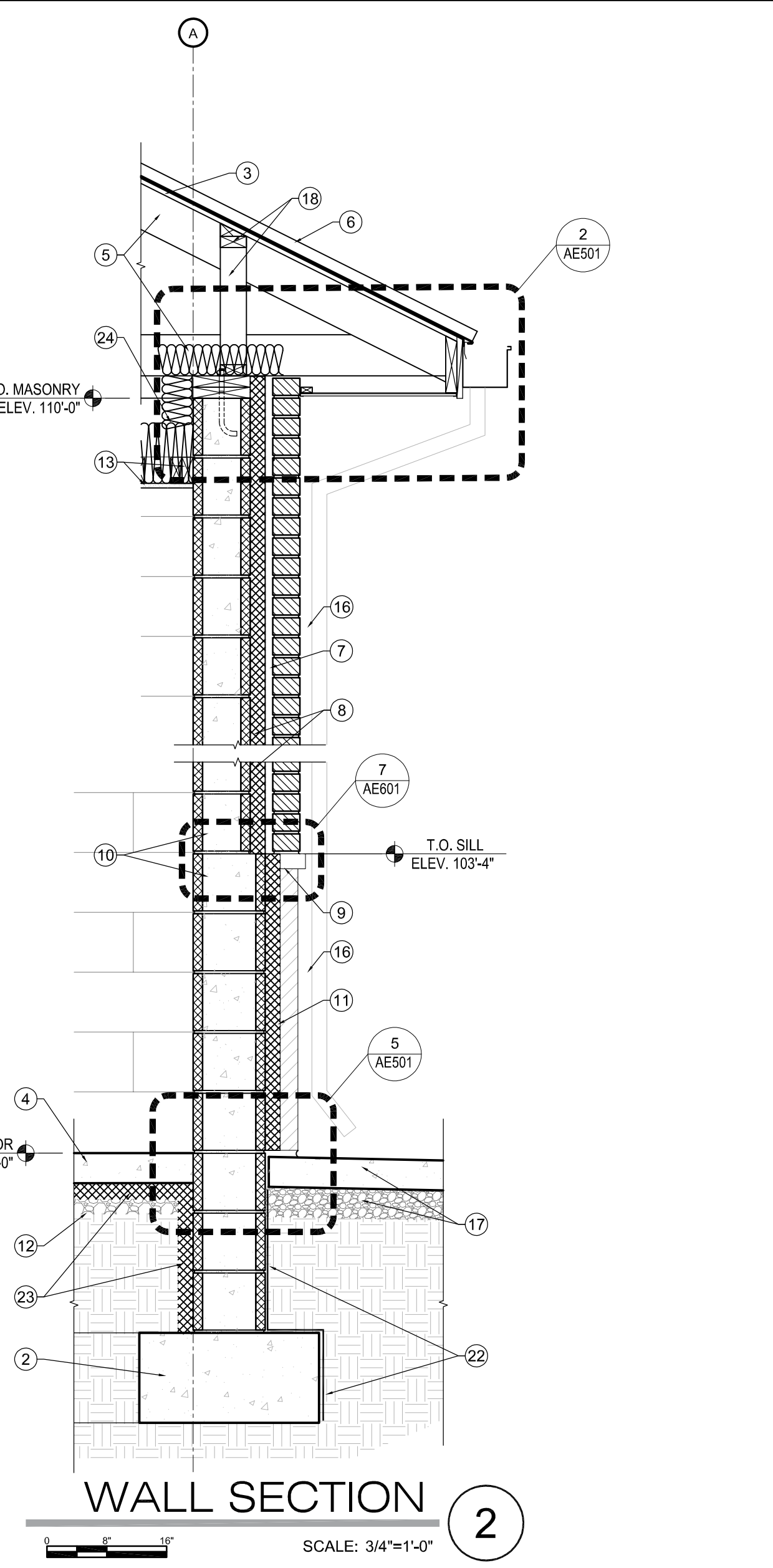
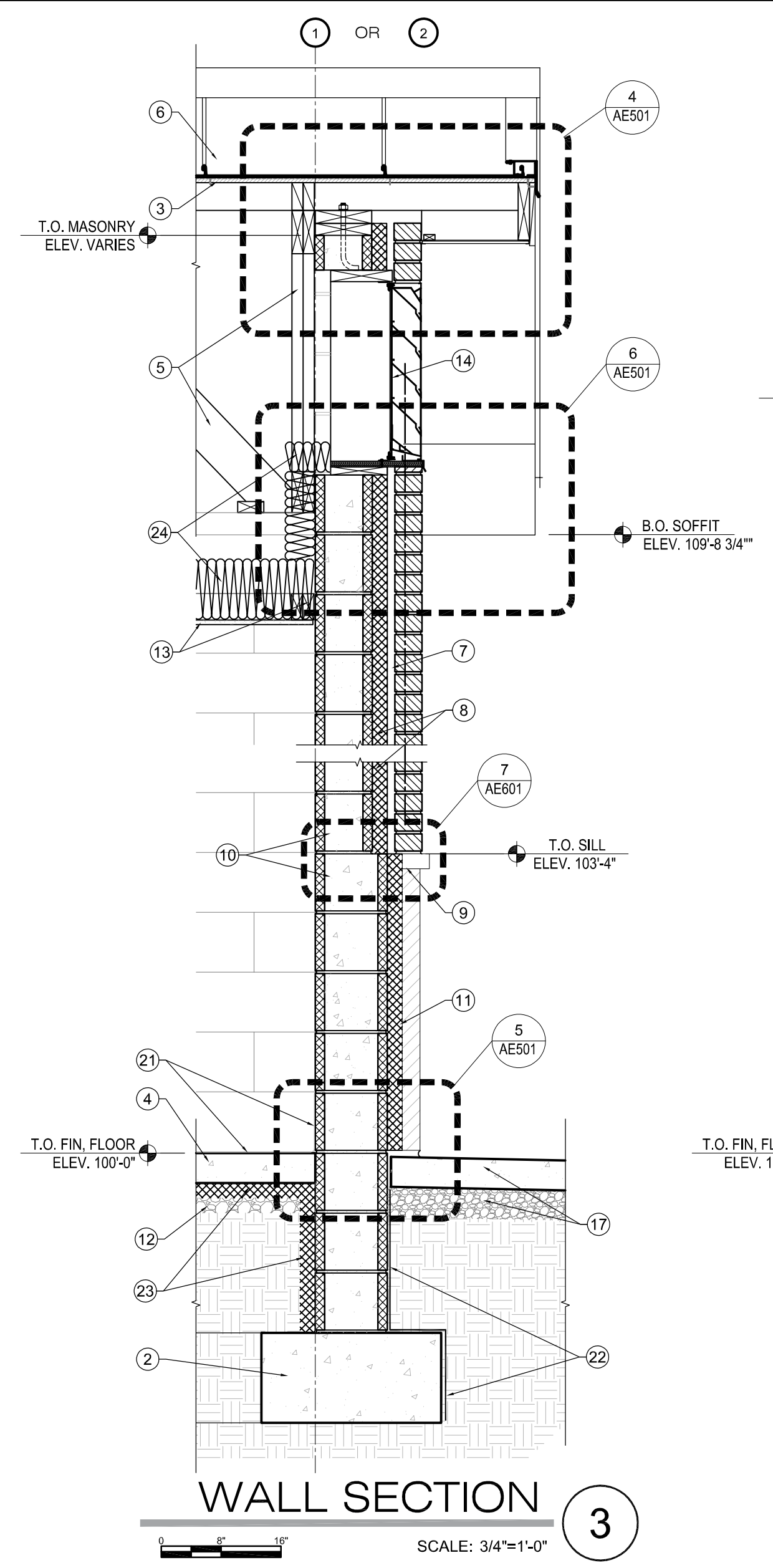
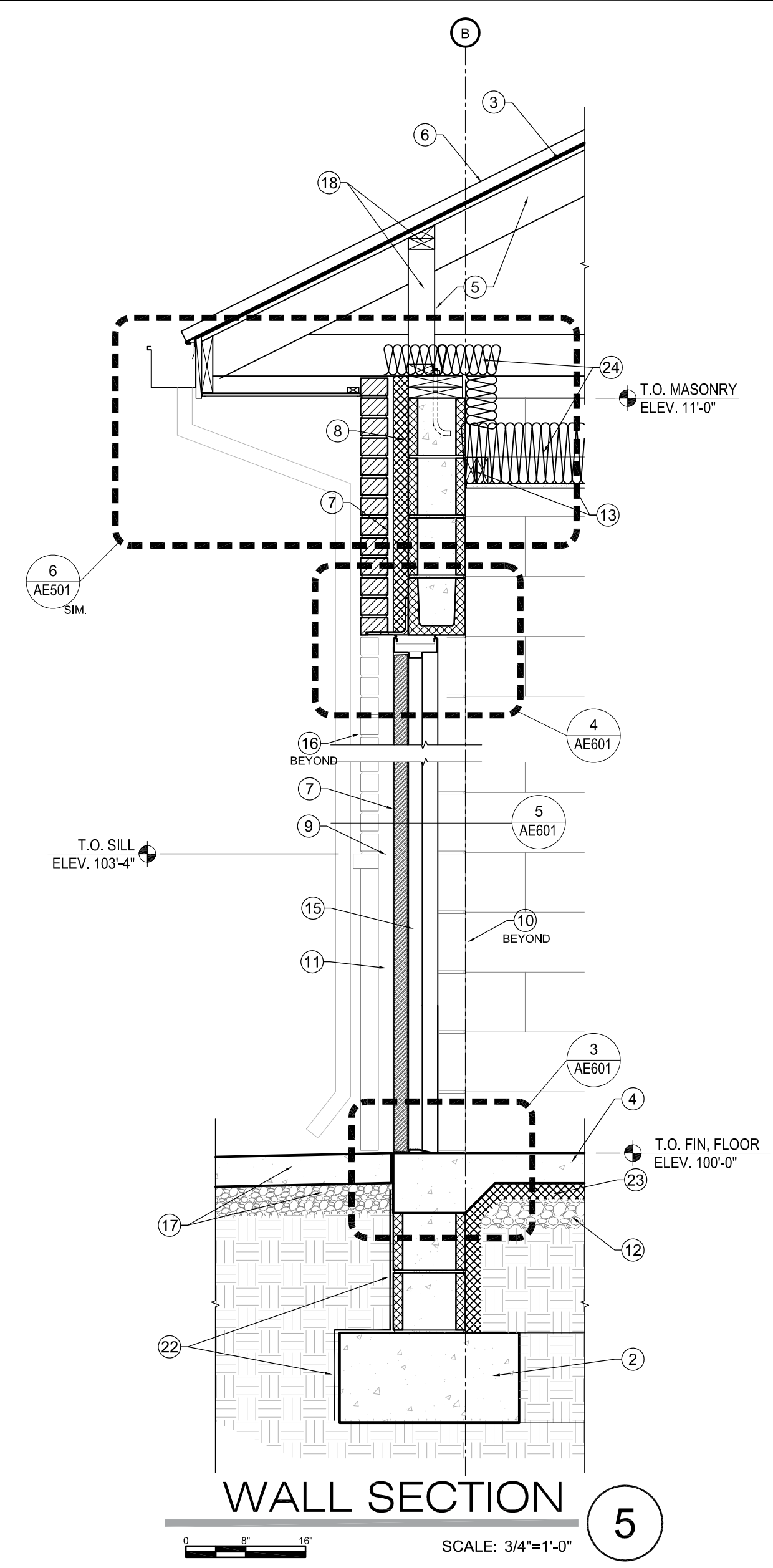
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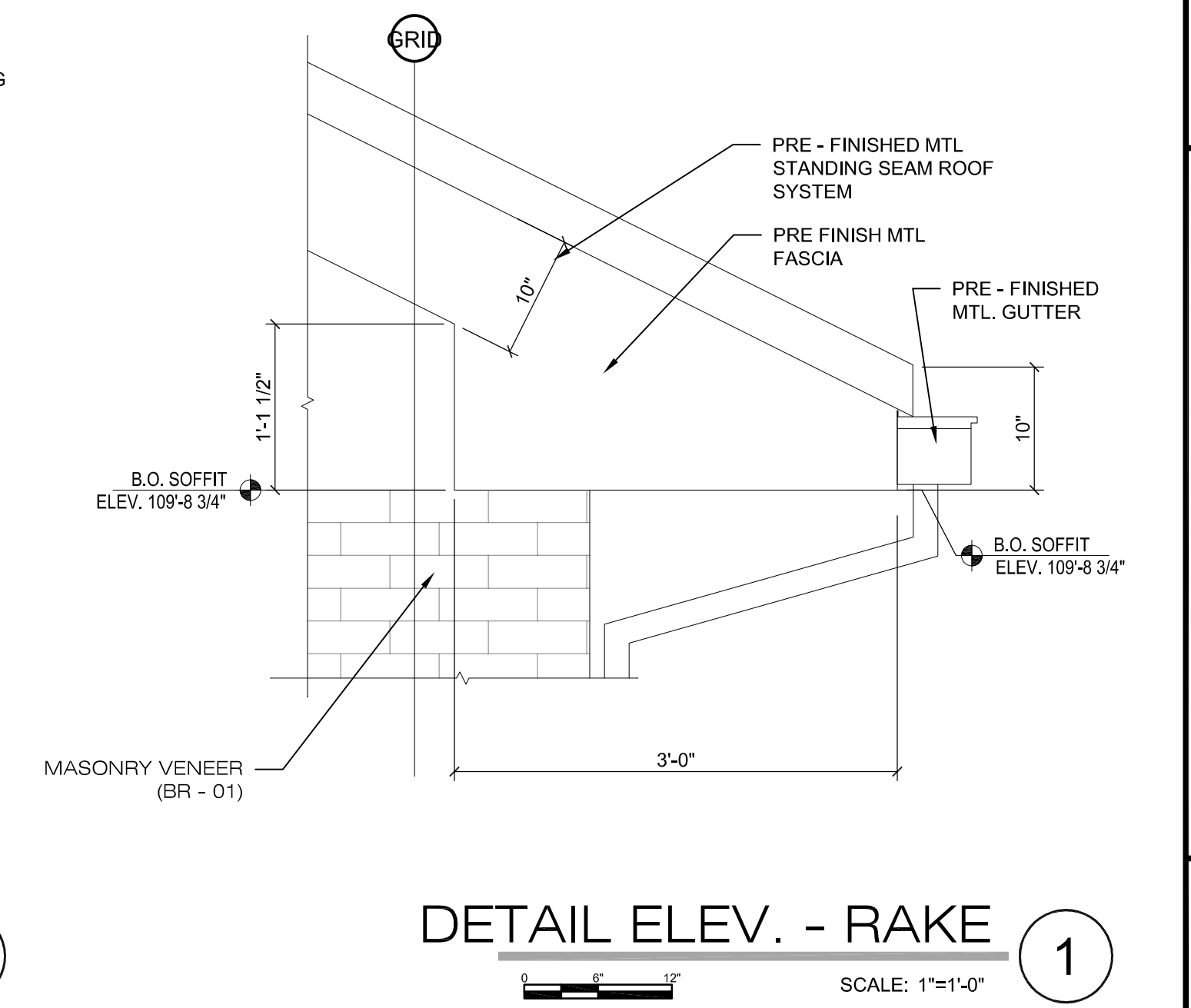
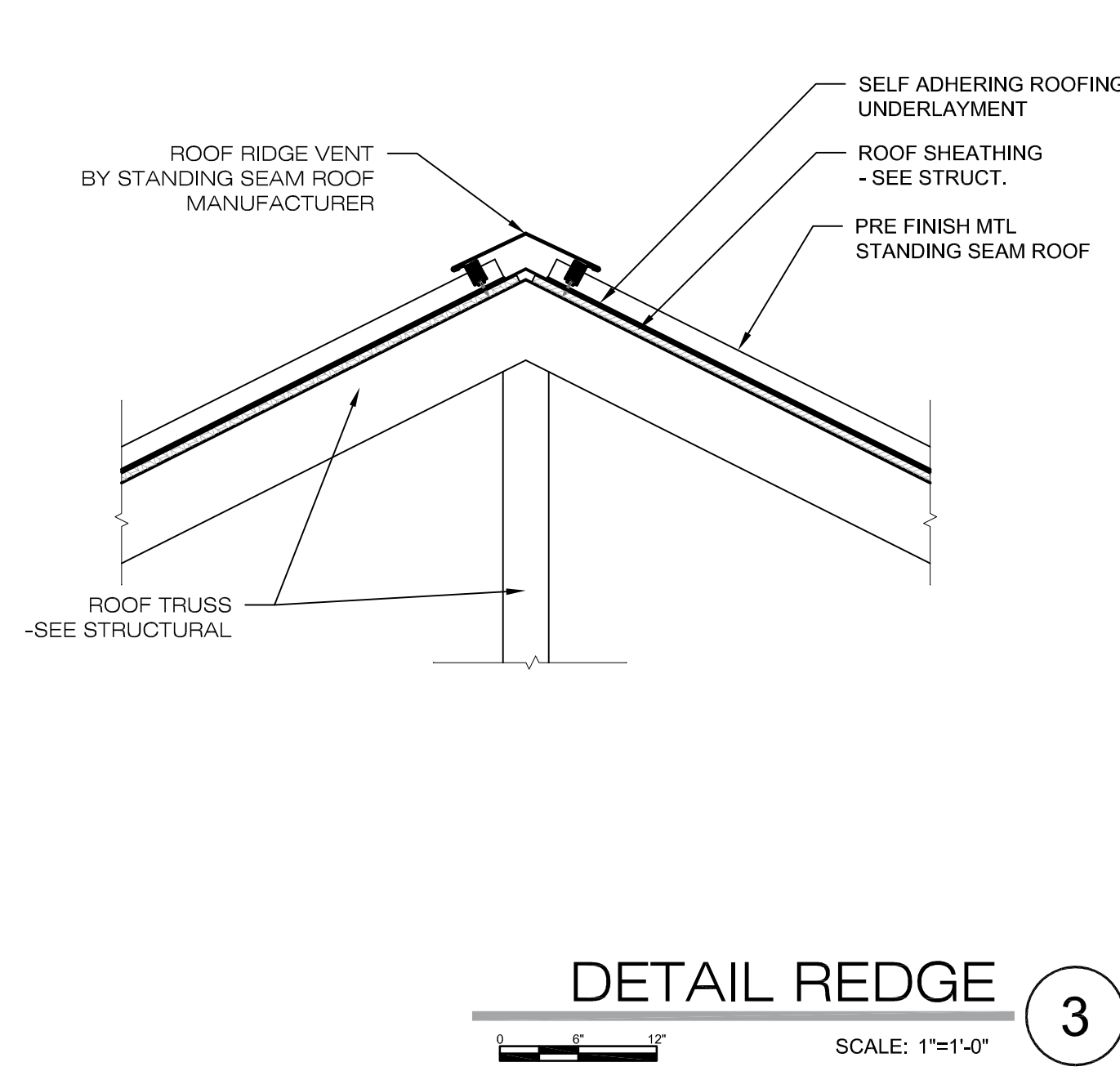
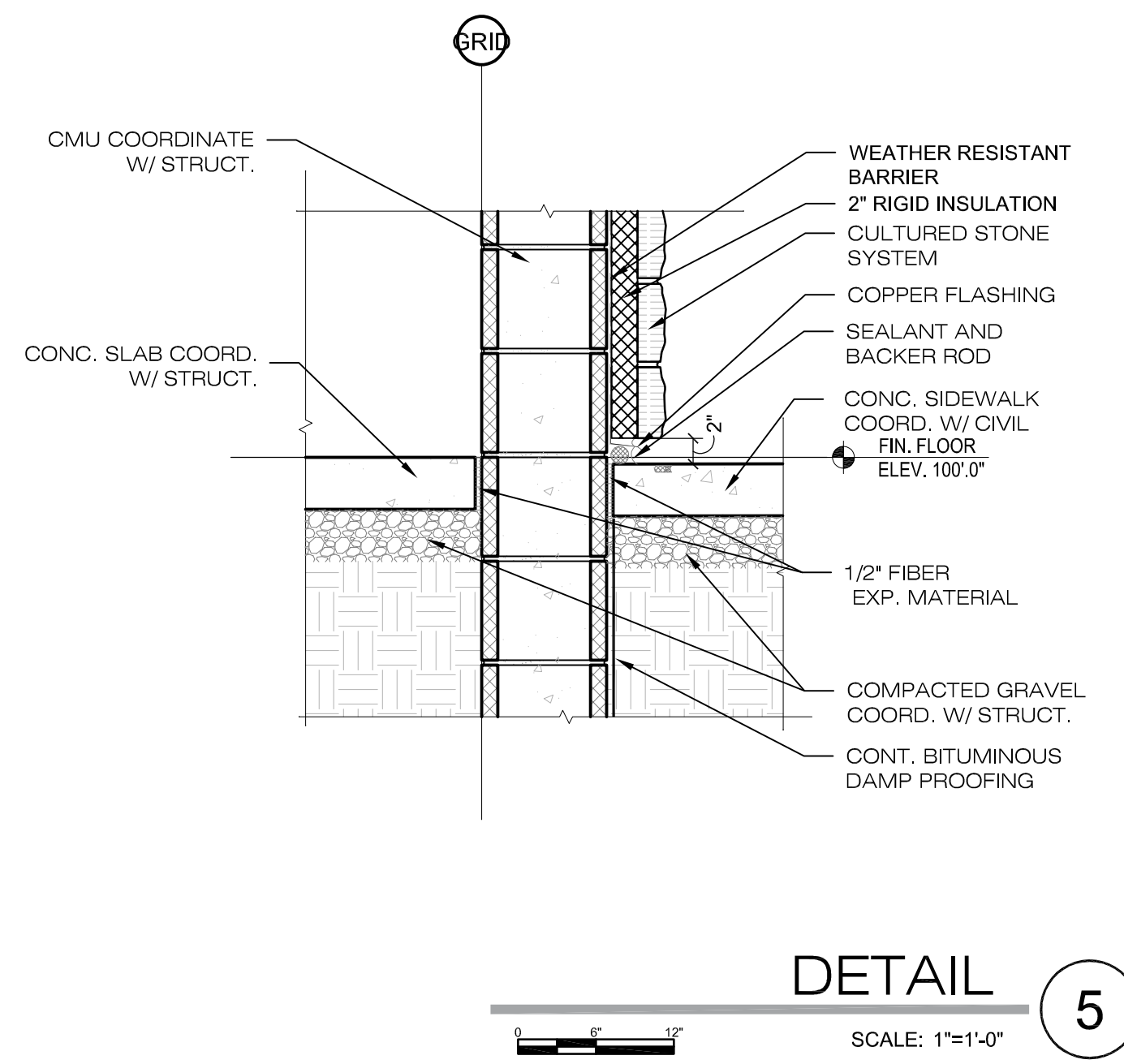
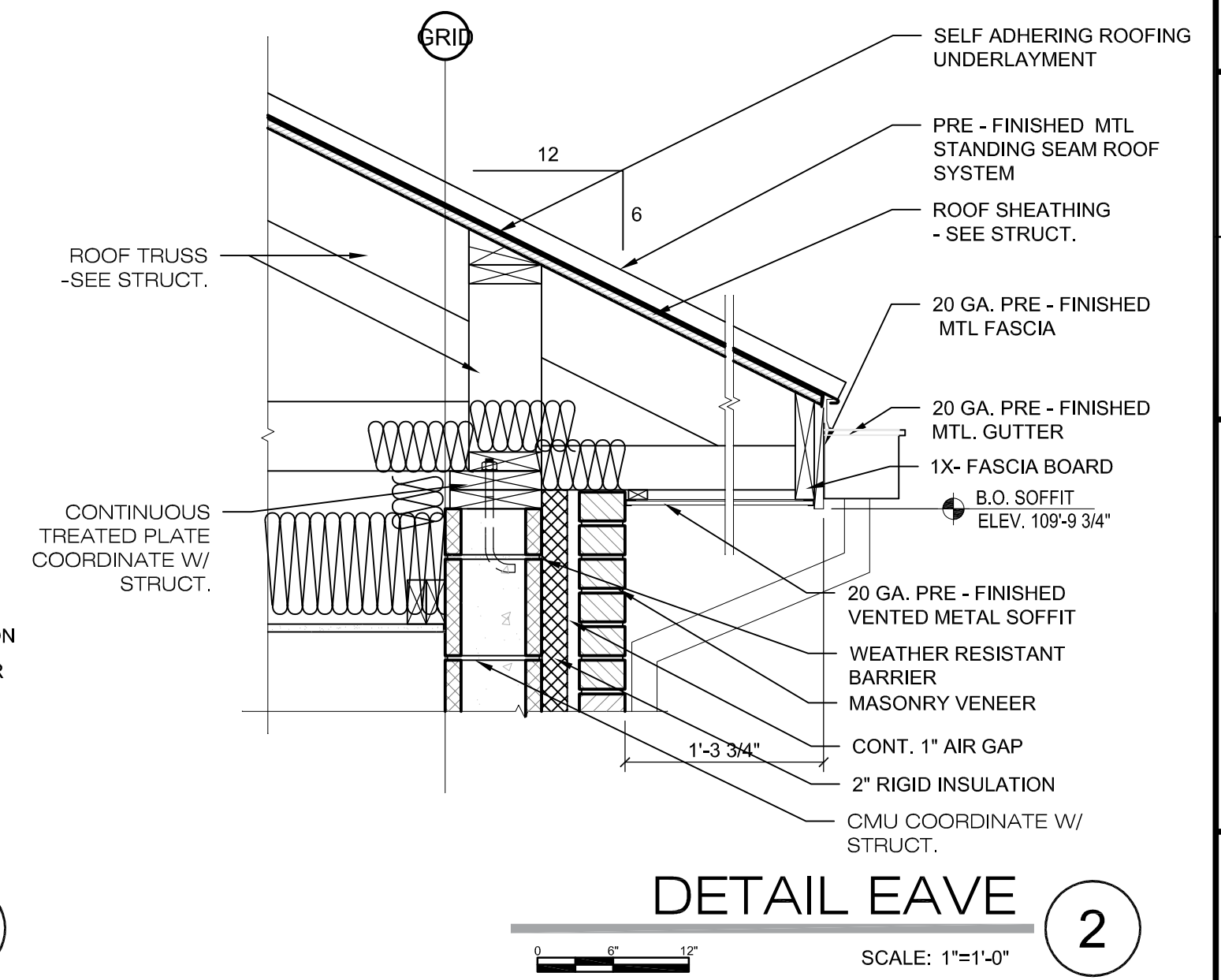
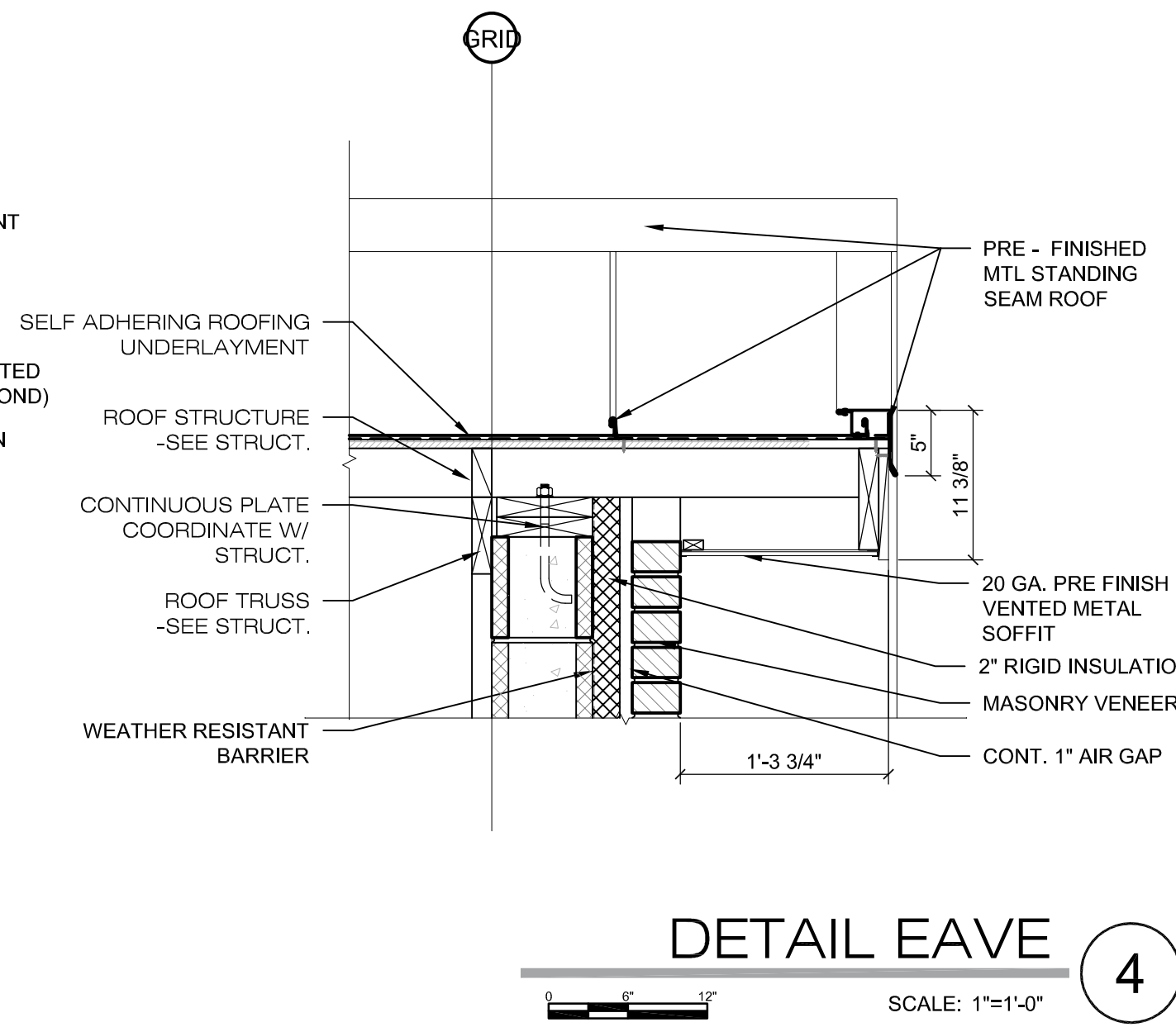
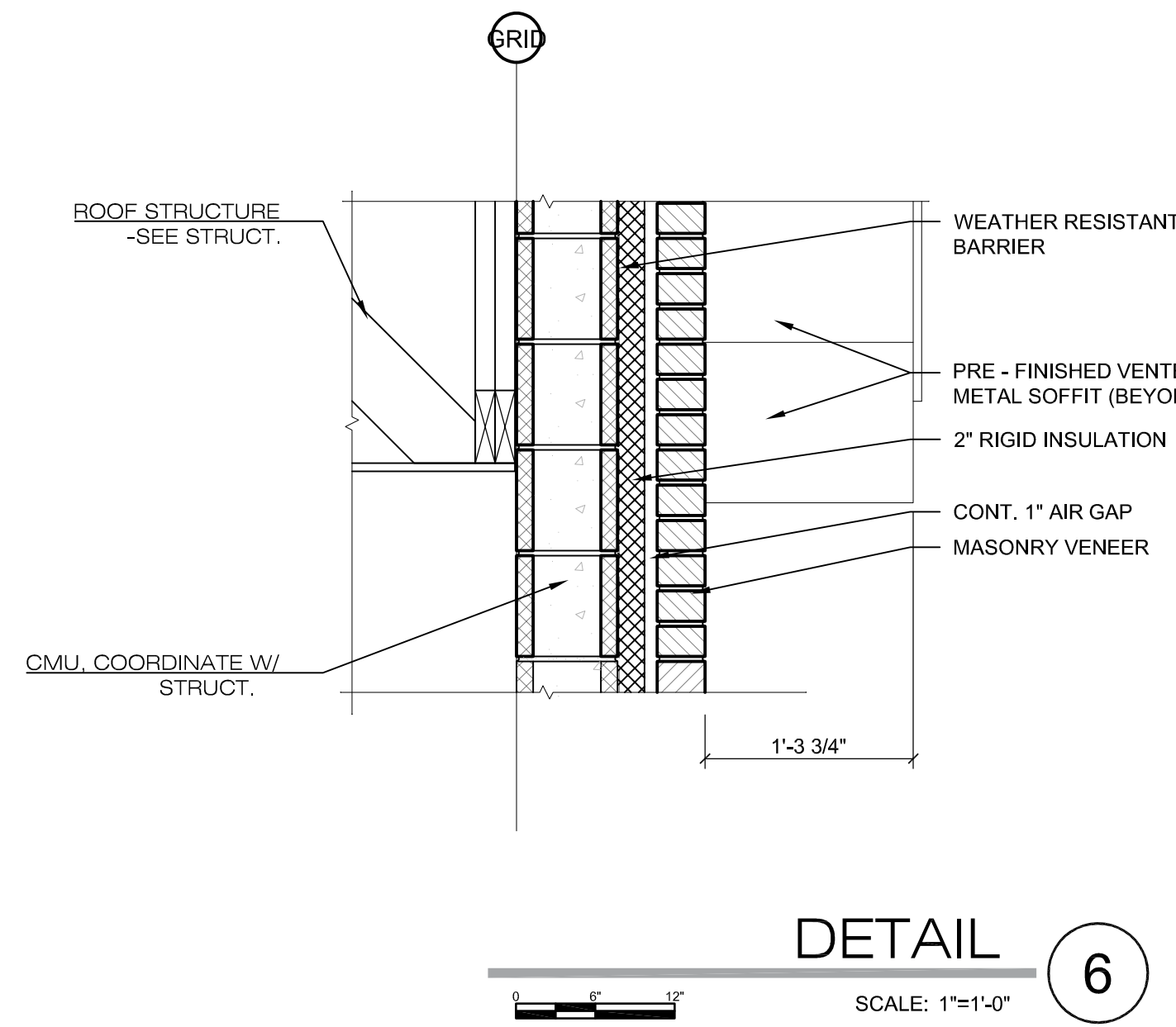
CALL BLUESTAKES
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HERRIMAN CITY
ENGINEERING DEPARTMENT
 CEMETERY RESTROOM BUILDING
 6018 W. HERITAGE HILL DRIVE
 BUILDING SECTIONS & WALL SECTION

AE301





| NO. | REVISION DESCRIPTION | DATE |
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1/21/2019

| CONSTRUCTION | DATE |
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HERRIMAN CITY
ENGINEERING DEPARTMENT
CEMETERY RESTROOM BUILDING
6018 W. HERITAGE HILL DRIVE

DETAILS

AE501

5/14/2018 5:42 PM L:\180179 HERRIMAN CITY CEMETERY RESTROOM BUILDING\EXECUTION DRAWINGS\ARCHITECTURAL SHEETS\AE601 DOOR SCHED.DWG

DOOR SCHEDULE

| NO. | TYPE | DOOR | | | | FRAME | | | | | | HDWR. SET | REMARKS | NO. | |
|-----|------|-------|---------|-------|------------|--------|------------|---------|---------|---------|------------|-----------|---------|----------------------|--------|
| | | WIDTH | HEIGHT* | GLASS | MATERIAL | FINISH | FRAME TYPE | DETAIL | | | MATERIAL | | | | FINISH |
| 101 | D1 | 3'-0" | 7'-2" | - | GALV. H.M. | PT. | F1 | 4/AE601 | 5/AE601 | 3/AE601 | GALV. H.M. | PT. | HW-01 | DOOR TO BE INSULATED | 101 |
| 102 | D1 | 3'-0" | 7'-2" | - | GALV. H.M. | PT. | F1 | 4/AE601 | 5/AE601 | 3/AE601 | GALV. H.M. | PT. | HW-01 | DOOR TO BE INSULATED | 102 |
| 103 | D1 | 3'-0" | 7'-2" | - | GALV. H.M. | PT. | F1 | 4/AE601 | 5/AE601 | 3/AE601 | GALV. H.M. | PT. | HW-01 | DOOR TO BE INSULATED | 103 |

* VERIFY DOOR HEIGHTS IN FIELD

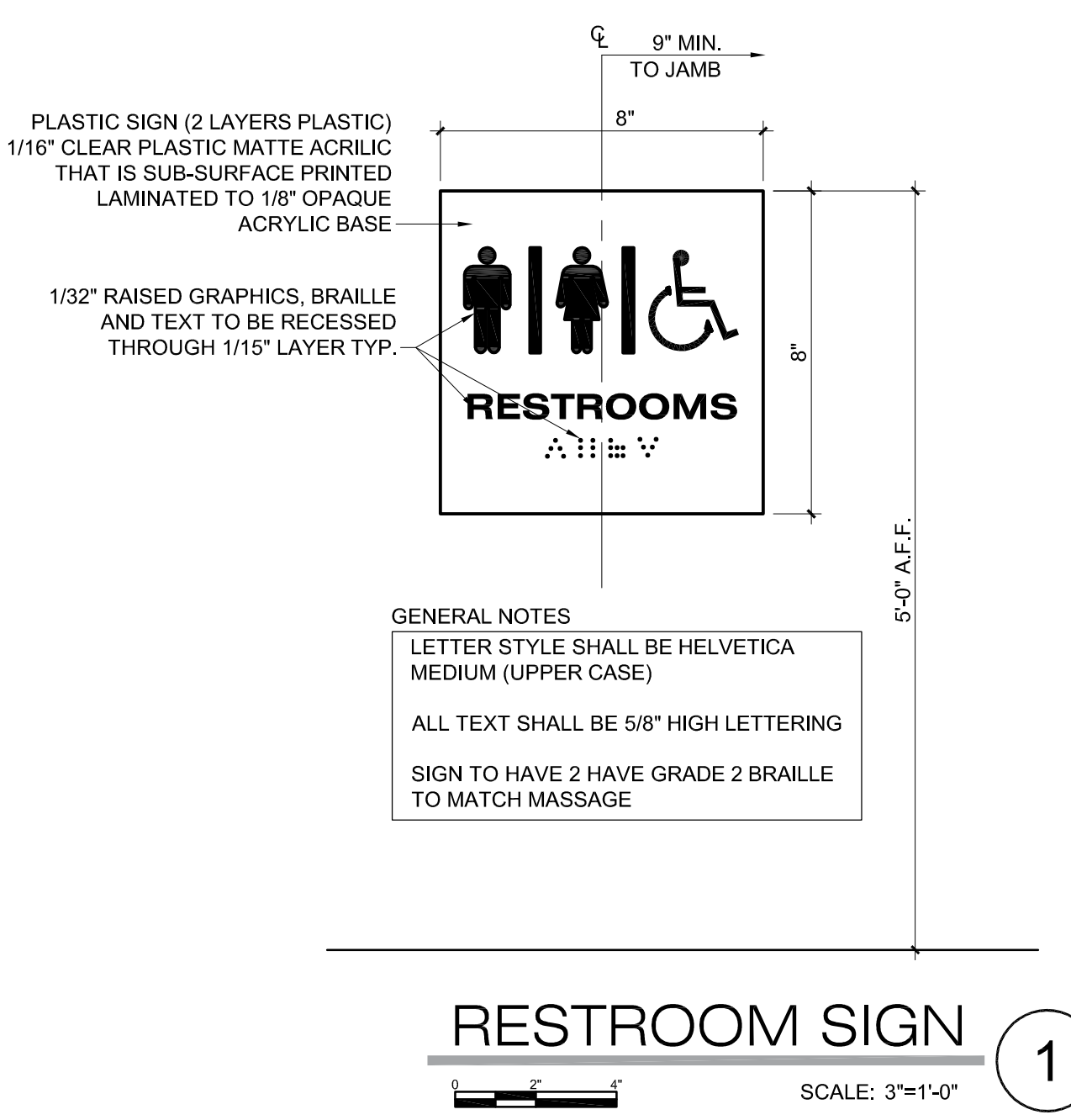
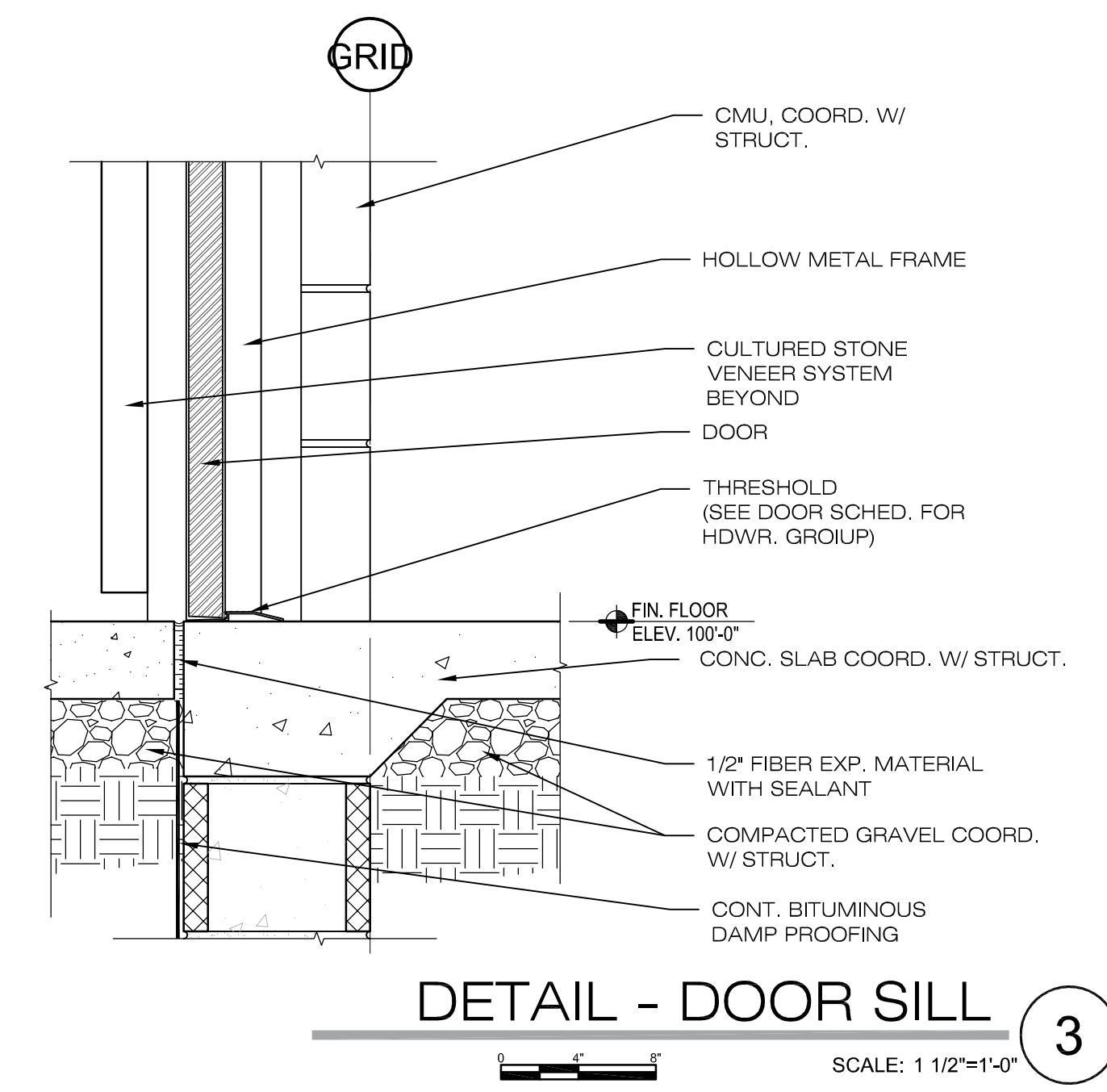
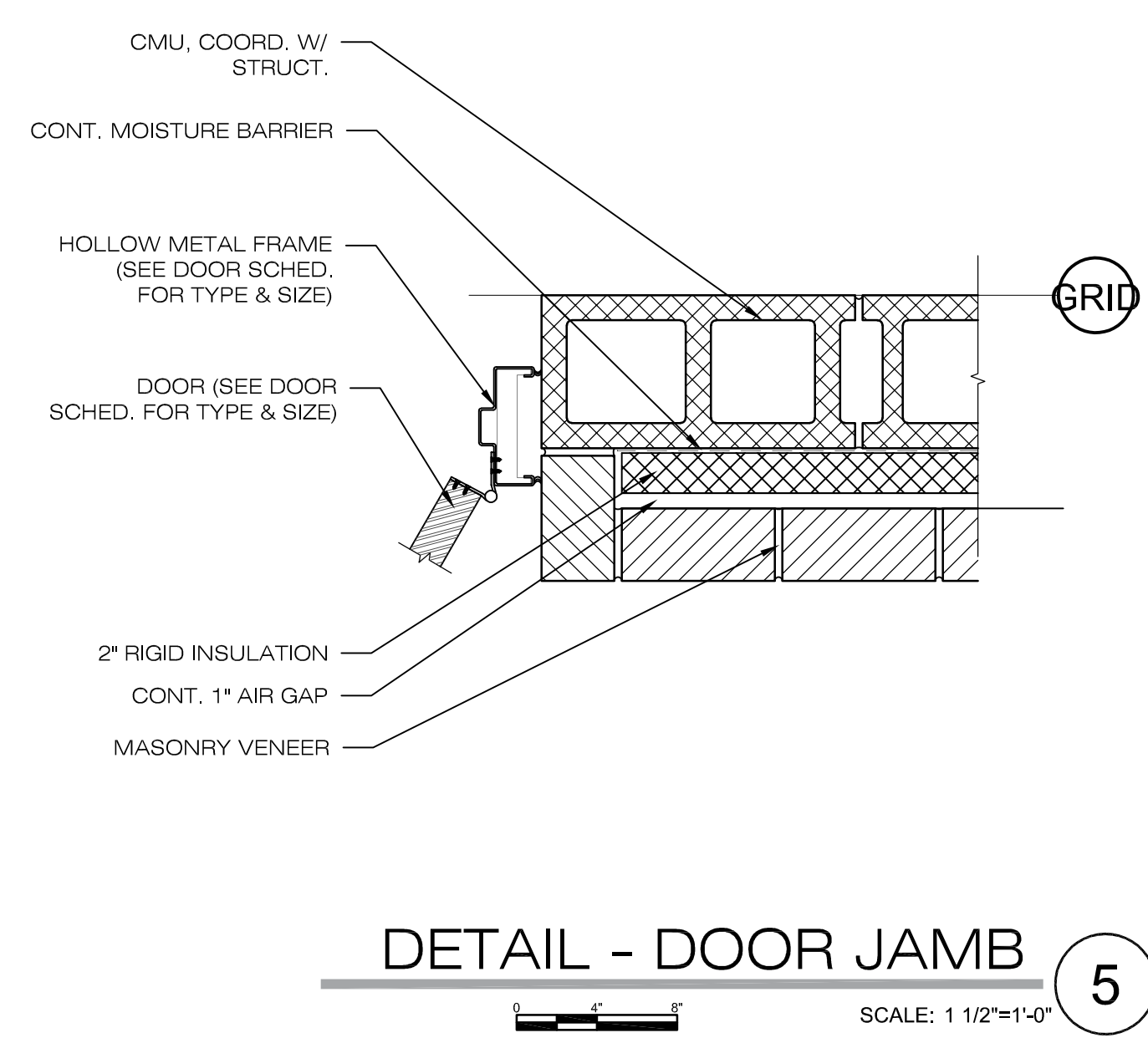
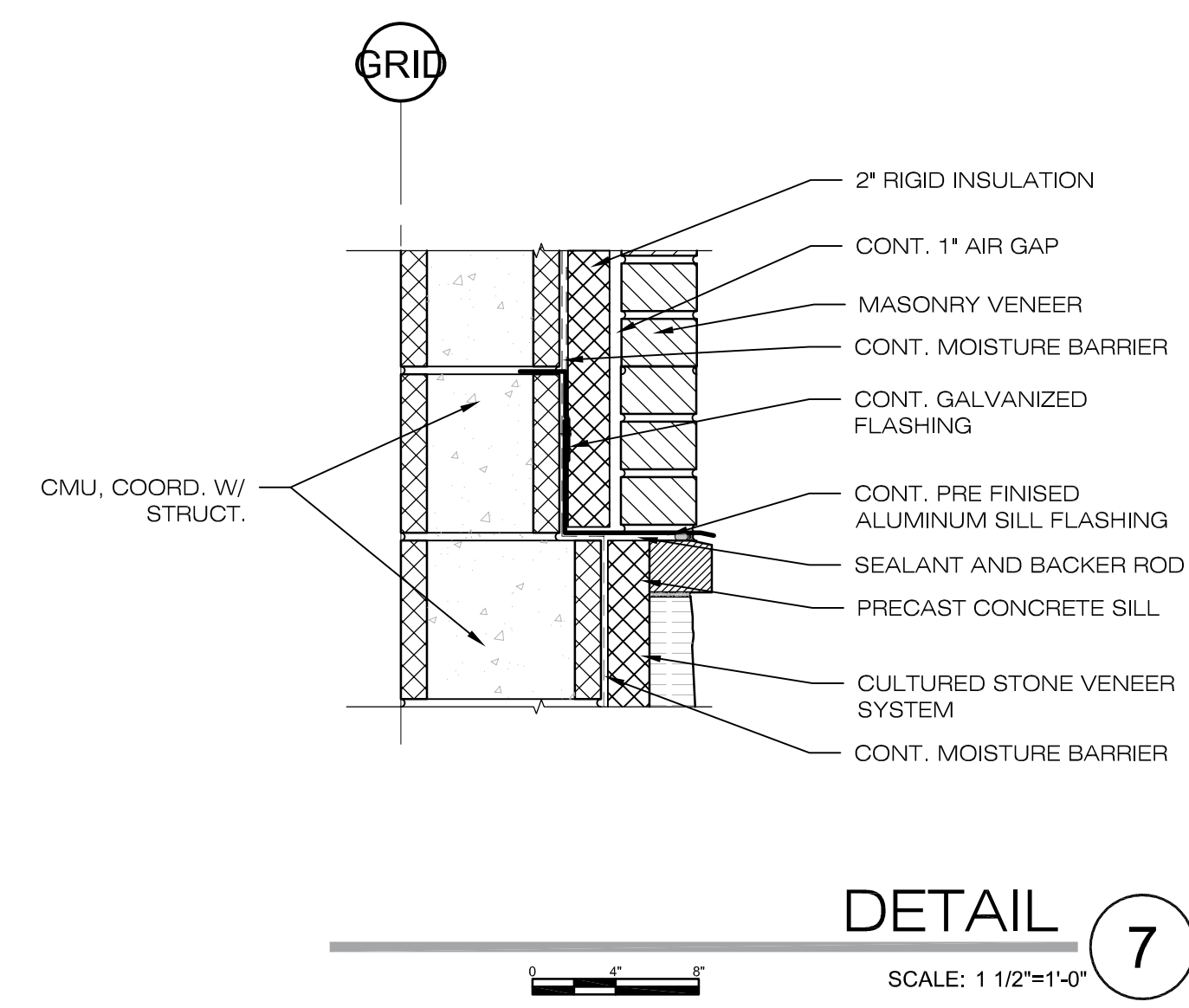
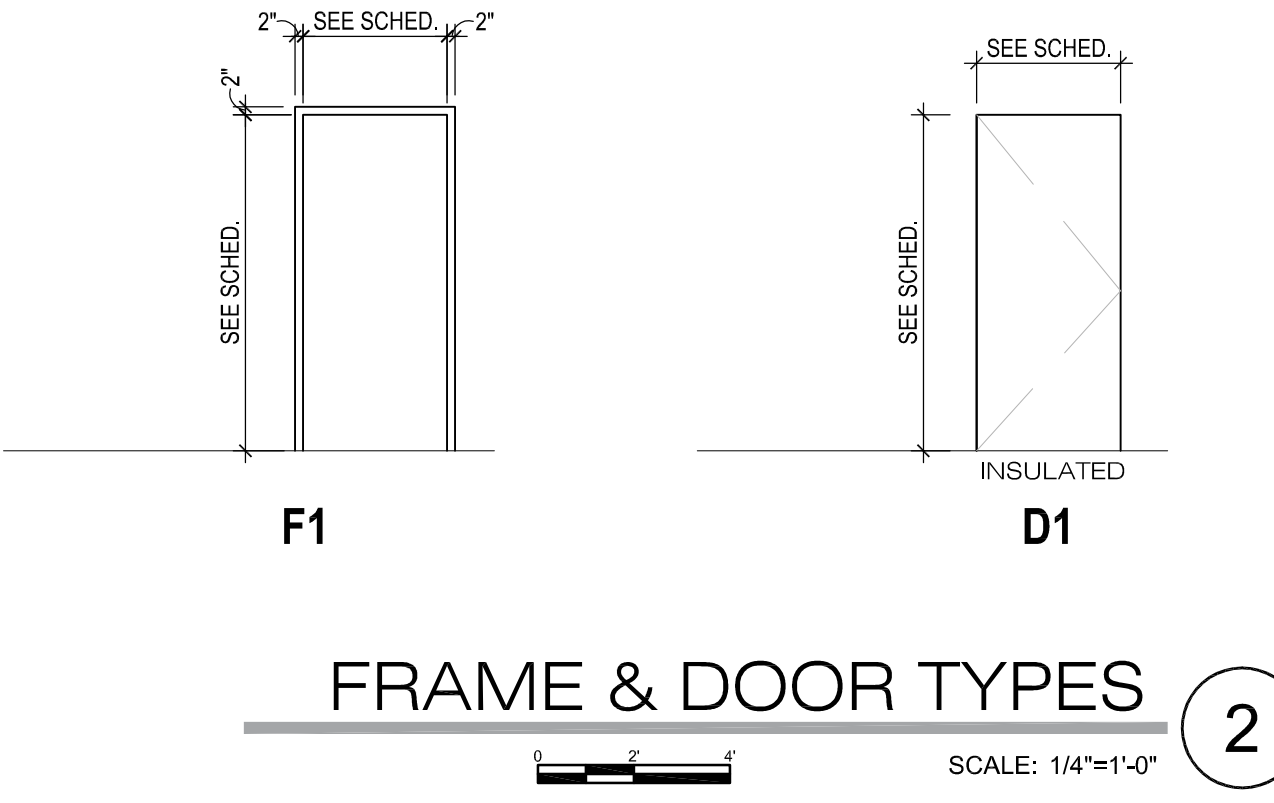
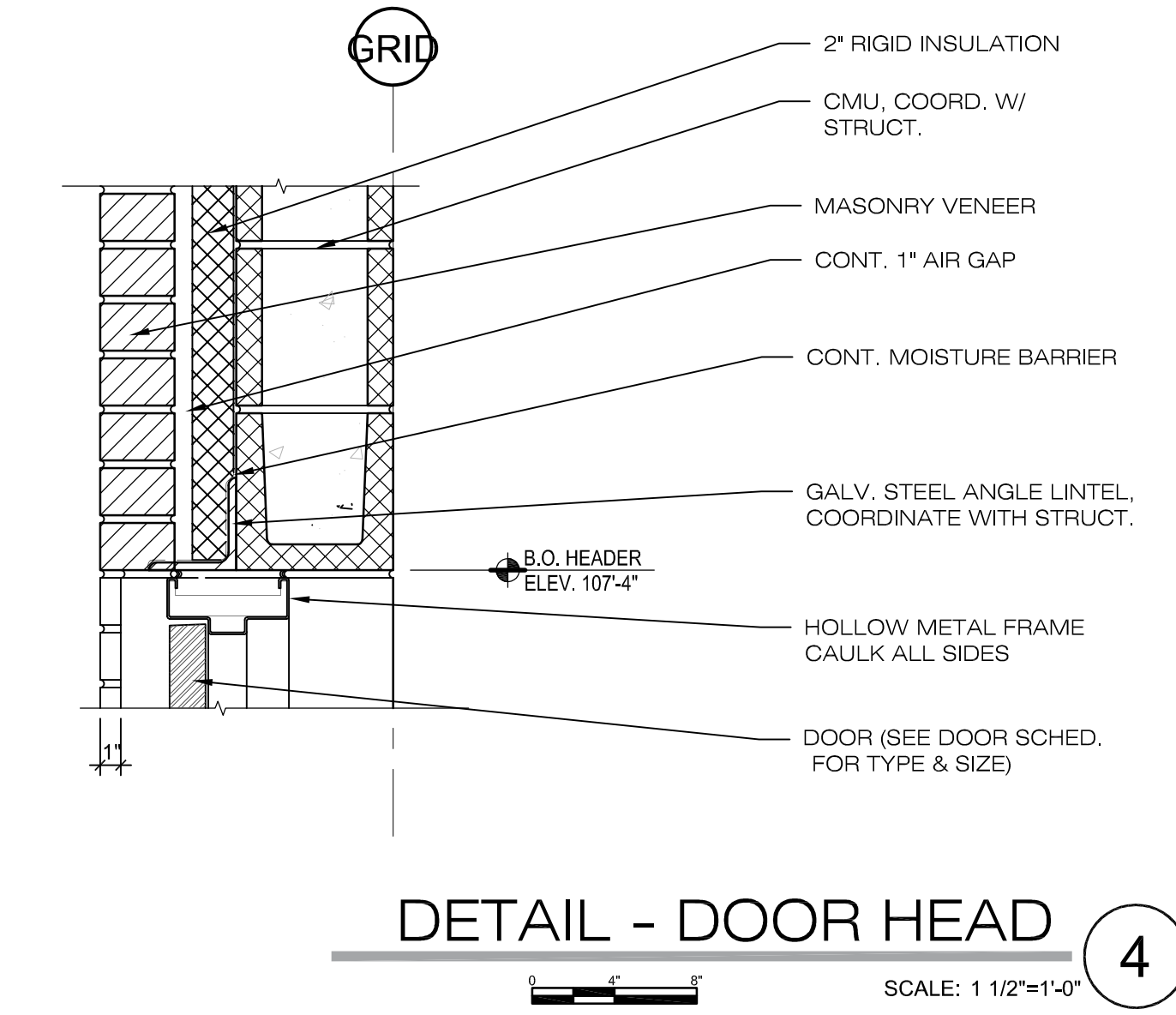
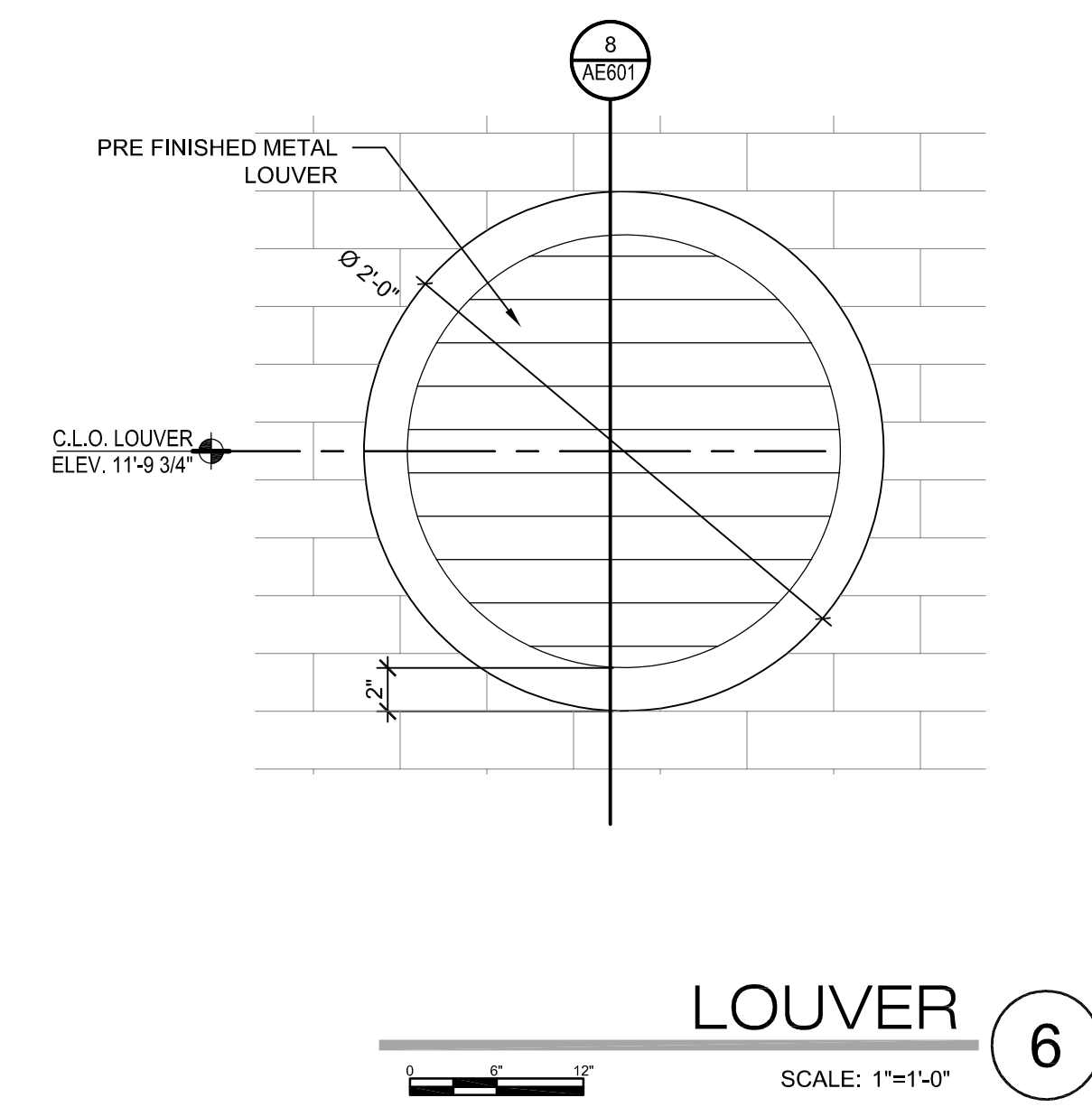
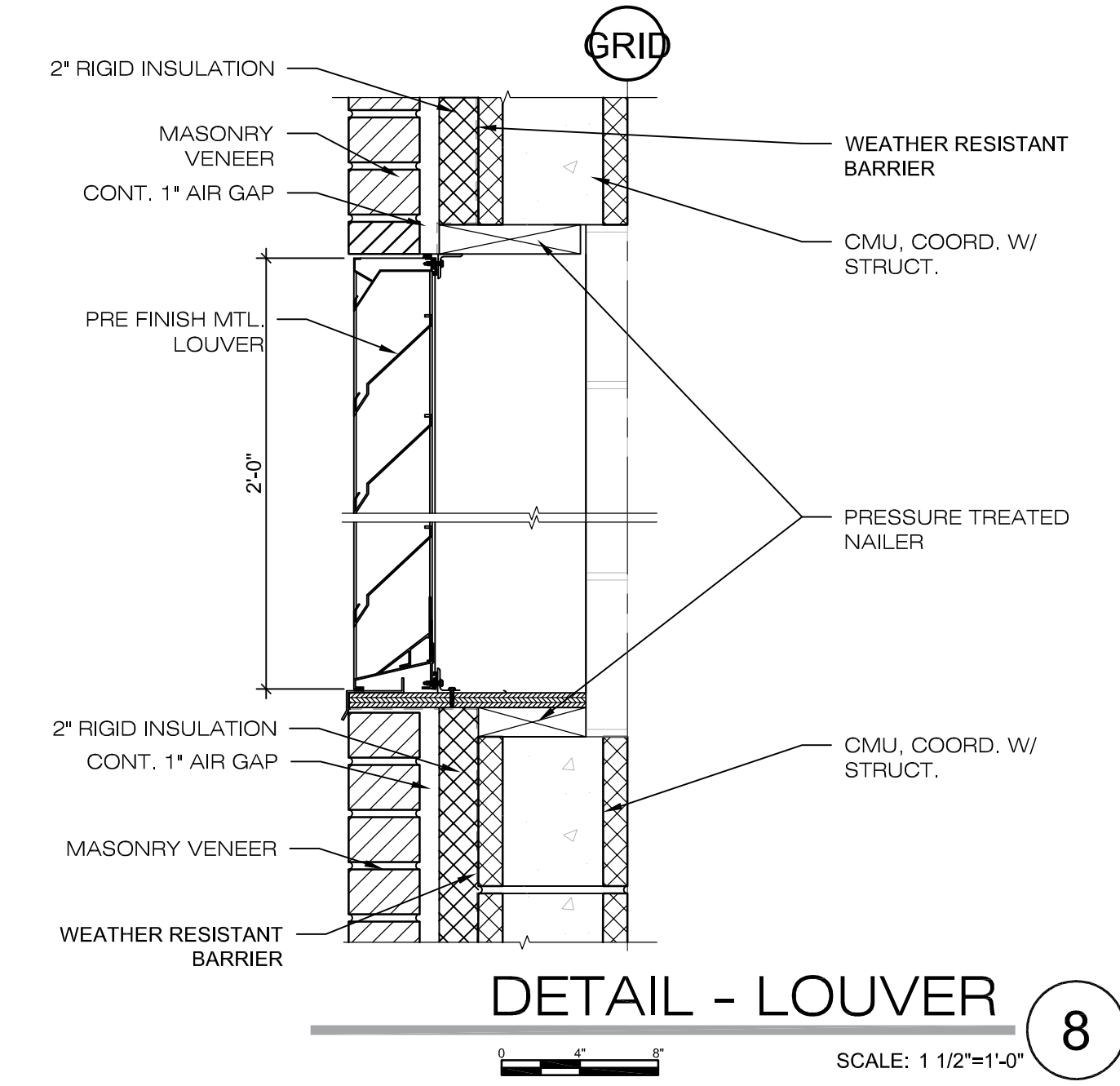
DOOR HARDWARE

HW SET: 01
(Doors 101, 102 & 103)


| | | | | | |
|---|-----|------------------|--|-----|---------|
| 3 | EA | HINGE | 5BB1HW 4.5 X 4.5 NRP | 630 | IVE |
| 1 | EA | LOCK SET | NDE80 RHO SERIES (CYL PREP AS REQ'D) ON 'ENGAGE' PLATFORM | 626 | SCHLAGE |
| 1 | EA | CYLINDER / CORE | MATCH OWNER KEY SYST. | 626 | SCHLAGE |
| 1 | EA | SURFACE CLOSER | 4040XP SCUSH TBWMS | 689 | LCN |
| 1 | EA | RAIN DRIP | 142 SERIES | 628 | ZERO |
| 1 | SET | PERIMETER GASKET | 429 SERIES (HEAD & JAMBS) | 628 | ZERO |
| 1 | EA | KICK PLATE | 6400 10" X 2" LDW | 630 | IVE |
| 1 | EA | DOOR SWEEP | 39 SERIES | 628 | ZERO |
| 1 | EA | SADDLE THRESHOLD | 656 SERIES X 223 | 719 | ZERO |

ABBREVIATIONS

H.M. HOLLOW METAL
PT. PAINTED
GALV H.M. GALVANIZED HOLLOW METAL
(INSULATED @ DOORS)



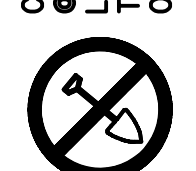
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1/21/2019

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| CONSTRUCTION | SUBMITTAL | DRAWN BY: | CHECKED BY: | APPROVED BY: | RELEASE: | PLOT DATE: |
| | | | | | 1/21/2019 | 1/11/19 |

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VERIFY SCALE
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HERRIMAN CITY
ENGINEERING DEPARTMENT
CEMETERY RESTROOM BUILDING
6018 W. HERITAGE HILL DRIVE

DOOR SCHEDULE & DOOR TYPE & DETAILS

AE601

10. Statement of Special Inspections

- 10.1. The following materials, systems and components require special inspection or testing per Chapter 17 of the International Building Code (IBC).
- 10.2. For items requiring continuous inspection, a special inspector must be present onsite during the performance of that task. In most cases, periodic inspections/tests shall be performed prior to commencing the task, intermittently during the task, and at the completion of the task.

Concrete Construction per IBC Sections 1705.3 & 1705.12

| Item | Frequency | Detailed Instructions |
|---|------------|--|
| Reinforcing steel | Periodic | Verify prior to placing concrete that reinforcing is of specified type, grade and size; that it is free of oil, dirt and rust; that it is located and spaced properly; that hooks, bends, ties, stirrups and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided; and that all mechanical connections are installed per the manufacturer's instructions and/or evaluation report. |
| Welding of reinforcing steel | Periodic | Verify weldability of reinforcing steel other than A706. Continuous inspection is required for welding of reinforcing steel used in intermediate or special concrete moment frames, boundary elements of special structural walls or shear reinforcement. |
| Cast-in bolts & embeds | Periodic | |
| Post-installed adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads | Continuous | All post-installed anchors/dowels shall be special inspected in accordance with the approved code evaluation report and with ACI Section 17.8.2. |
| Post-installed mechanical anchors and adhesive anchors not defined above | Periodic | |
| Use of required mix design | Periodic | Verify that all mixes used comply with the approved construction documents; ACI 318: Ch. 19, 26.4.3-26.4.4; and IBC 1904.1, 1908.2, 1908.3. |
| Concrete sampling for strength tests, slump, air content, and temperature | Continuous | Samples for strength tests shall be taken in accordance with ASTM C172, cured per ASTM C31 and tested in accordance with ASTM C39 by a testing agency complying with ASTM C1077. Acceptance criteria for strength tests shall be per ACI 318 Section 26.12.3. For each mix placed, samples shall be taken not less than once a day, nor less than once for each 150 yd ³ of concrete, nor less than once for each 5000 ft ² of surface area for slabs or walls. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests and determine the temperature of the concrete. |
| Concrete & shotcrete placement | Continuous | |
| Curing temperature and techniques | Periodic | Verify that concrete is maintained at a temperature of at least 50°F and in a moist condition for at least 7 days after placement. Verify that high-early-strength concrete is maintained at a temperature of at least 50°F and in a moist condition for at least 3 days after placement. Accelerated curing methods may be used (see ACI 318: 26.5.3.2(c)). Shotcrete shall be maintained at a temperature of at least 40°F for the same period of time as noted for concrete and kept in the moist condition during curing periods in accordance to IBC 1906.9 All concrete materials, reinforcement, forms, fillers, and ground shall be free from frost. In hot weather conditions ensure that appropriate measures are taken to avoid plastic shrinkage cracking and that the specified water/cement ratio is not exceeded. |
| Formwork | Periodic | Verify that the forms are placed plumb and conform to the shapes, lines, and dimensions of the members as required by the approved construction documents. |
| Welding of Reinforcing Steel (IBC Table 1705.3): | | |
| Verification of weldability | Periodic | Verify weldability of reinforcing steel other than A706 based upon carbon equivalent and in accordance with AWS D1.4. Continuous inspection is required for welding of reinforcing steel used in intermediate or special concrete moment frames, boundary elements of special structural walls or shear reinforcement. |
| Other reinforcing steel | Periodic | Visually inspect all welds in accordance with AWS D1.4. |
| Single-pass fillet welds, 5/16" max | Periodic | |
| All other welds | Continuous | |

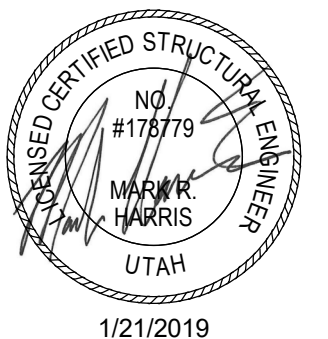

Masonry Construction per IBC Section 1705.4

| Item | Frequency | Detailed Instructions |
|---|-----------|--|
| Prior to Construction (Article 3.1.1, TMS-402/ACI 530.1-13): | | |
| Review material certificates, mix designs, test results and construction procedures | Periodic | Verify that materials conform to the requirements of the approved construction documents. Mix design, test results, material certificates, and construction procedures should be submitted for review. Mortar mix designs shall conform to ASTM C 270 while grout shall comply with the proportion or strength requirements of ASTM C 476 or be based upon compressive strength tests in accordance with ASTM C1019. Material certificates shall be provided for the following: reinforcement, anchors, ties, fasteners, and metal accessories; masonry units; mortar and grout materials. Construction procedures for cold-weather or hot-weather construction shall be reviewed. |

| Verify f_m prior to construction | Periodic | Determine the compressive strength for each wythe by the "unit strength method" or by the "prism test method" as specified in Section 1.4B of ACI 530.1-13 prior to construction. |
|---|------------|--|
| Proportions of site-prepared mortar | Periodic | Verify that mortar is of the type and color specified on the construction documents, that it conforms to ASTM C 270, and that it is mixed in accordance with Article 2.6 A of TMS-602/ACI 530.1-13. |
| Construction of mortar joints | Periodic | Verify that mortar joints comply with Article 3.3 B of TMS-602/ACI 530.1-13. |
| Preparation of required grout specimens, mortar specimens and/or prisms shall be observed | Periodic | If the prism test method is used a minimum of three prisms shall be constructed in accordance with ASTM C1314. If the unit strength method is selected the compressive strength of the grout shall be determined per ASTM C1019 (not required if grout complies with ASTM C476). |
| Prior to Grouting (Table 3.1.2, TMS-402/ACI 530-13): | | |
| Grout space | Periodic | Verify that grout space is free of mortar droppings, debris, loose aggregate, and other deleterious materials and that cleanouts are provided per Article 3.2 D and 3.2 F of TMS-602/ACI 530.1-13. |
| Grade, type, and size of reinforcement and anchor bolts | Periodic | Verify that reinforcement, joint reinforcement, wall ties, anchor bolts and veneer anchors comply with the approved construction documents and Section 1.6 of TMS 402/ACI 530-13. |
| Placement of reinforcement and connectors | Periodic | Verify that reinforcement, joint reinforcement, wall ties, anchor bolts and veneer anchors are installed in accordance with the approved construction documents and Articles 3.2 E, 3.4, and 3.6 A of TMS 602/ACI 530.1-13. |
| Proportions of site-prepared grout | Periodic | Verify that grout is proportioned per ASTM C 476 and has a slump between 8-11 inches. Self-consolidated grout shall not be proportioned onsite. (see Articles 2.8 B and 2.4 G.1.b of TMS 602/ACI 530.1-13) |
| Placement of masonry units and construction of mortar joints | Periodic | Verify that face shells and head joints are fully mortared and that vertical cells are aligned and unobstructed openings for grout are provided. All units are to be clean and placed while mortar is soft and plastic. Verify that mortar joints are placed in accordance with Article 3.3 B of TMS 602/ACI 530.1-13. |
| During Masonry Construction (Table 3.1.2, TMS-402/ACI530-13): | | |
| Size and location of structural elements | Periodic | Verify that structural elements are placed in locations specified on the approved construction documents and to the tolerances noted in Section 3.3F of TMS 602/ACI 530.1-13. |
| Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction | Periodic | Verify that correct anchorages and connections are provided per the approved plans and Sections 1.16.4.3 and 1.17.1 of TMS 402/ACI 530-13. Verify that structural elements are placed in locations specified on the approved construction documents. Headed or bent bar anchor bolts shall be embedded in grout. |
| Welding of reinforcement | Continuous | |
| Preparation, construction, and protection of masonry during cold weather (<40°F) or hot weather (>90°F) | Periodic | Verify that cold-weather construction is performed in accordance with Article 1.8 C of TMS 602/ACI 530.1-13 and hot weather construction per Article 1.8 D of TMS 602/ACI 530.1-13. |
| Placement of grout | Continuous | |
| Self-consolidating grout | Continuous | |
| Placement of AAC masonry units and construction of thin-bed mortar joints | Periodic | Verify that mortar is placed in accordance with Article 3.3 B.8 of TMS-602/ACI 530.1-13. |
| Observation of grout specimens, mortar specimens, and/or prisms | Periodic | Confirm that specimens/prisms are performed as required by Article 1.4 of TMS-602/ACI 530.1-13. |
| Minimum Testing: | | |
| Verification of Slump Flow and Visual Stability Index (VSI) for self-consolidating grout | Periodic | Compressive strength tests should be performed in accordance with ASTM C 1019 for slump flow and ASTM C 1611 for VSI. |
| Verification of f_m and f_{AAC} | Periodic | Determine the compressive strength for each wythe by the "unit strength method" or by the "prism test method" as specified in Article 1.4 B of TMS 602/ACI 530.1-13 prior to construction. |
| Post-installed anchors or dowels | | All post-installed anchors/dowels shall be specially inspected as required by the approved ICC-ES report. |

Soils per IBC Section 1705.6

| Item | Frequency | Detailed Instructions |
|--|------------|--|
| Verify subgrade is adequate to achieve design bearing capacity | Periodic | Prior to placement of concrete. |
| Verify excavations extend to proper depth and material | Periodic | Prior to placement of compacted fill or concrete. |
| Verify that subgrade has been appropriately prepared prior to placing compacted fill | Periodic | Prior to placement of compacted fill. |
| Perform classification and testing of compacted fill materials | Periodic | All materials shall be checked at each lift for proper classifications and gradations not less than once for each 10,000ft ² of surface area. |
| Verify proper materials, densities and lift thicknesses during placement and compaction. | Continuous | |

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| CONSTRUCTION | JTA/RE+A | RCG/RE+A | APPROVED BY: | RELEASE: | PLOT DATE: | | |
| SUBMITTAL | DRAWN BY: | CHECKED BY: | APPROVED BY: | RELEASE: | PLOT DATE: | | |
| CALL BLUESTAKES @ 1-800-662-4111 AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. | | | | | | | |
|  | | | | | | | |
| HERRIMAN CITY ENGINEERING DEPARTMENT CEMETERY RESTROOM BUILDING 6018 W. HERITAGE HILL DRIVE GENERAL STRUCTURAL NOTES | | | | | | | |
| SE003 | | | | | | | |

| PLAN LEGEND | | | |
|-------------|--|--|-------------------------------------|
| | FOOTING STEP | | MASONRY WALL |
| | FOOTING - CONTINUOUS | | MASONRY WALL - RECESSED (FDTN PLAN) |
| | FOOTING - THICKENED SLAB | | MASONRY LINTEL (FRAMING PLAN) |
| | FOOTING - SQUARE FOOTING - RECTANGULAR FOOTING - MAT FOOTING | | MASONRY COLUMN IN MASONRY WALL |
| | CHANGE IN ELEVATION | | |
| | SLAB BLOCK-OUT AT COLUMN | | |
| | SLAB CONTROL/CONSTRUCTION JOINT | | |
| | OPENING | | |
| | CONCRETE HOUSEKEEPING PAD | | |

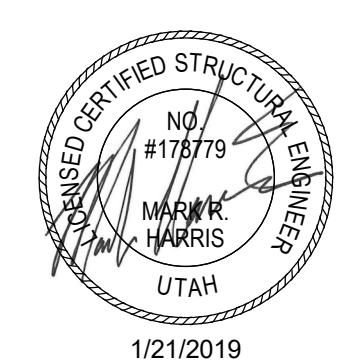
| PLAN MARKS | |
|------------|--------------------------------------|
| BF-# | BRACED FRAME |
| CB-# | CONCRETE BEAM |
| CC-# | CONCRETE COLUMN |
| CCSS-# | CANTILEVERED CONCRETE SUSPENDED SLAB |
| CDP-# | CONCRETE DRILLED PIER |
| CFW-# | CONCRETE FOUNDATION WALL |
| CGB-# | CONCRETE GRADE BEAM |
| CJ-# | CONCRETE JOIST |
| CJC-# | CONCRETE JAMB COLUMN |
| CL-# | CONCRETE LINTEL |
| CP-# | CONCRETE PIER |
| CRW-# | CONCRETE RETAINING WALL |
| CSG-# | CONCRETE SLAB ON GRADE |
| CSH-# | CONCRETE SHEAR HEAD |
| CSS-# | CONCRETE SUSPENDED SLAB |
| CSW-# | CONCRETE SHEAR WALL |
| CW-# | CONCRETE WALL |
| FC-# | CONTINUOUS FOOTING |
| FM-# | MAT FOOTING |
| FR-# | RECTANGULAR FOOTING |
| FS-# | SQUARE FOOTING |
| FTS-# | THICKENED SLAB FOOTING |
| HD-# | HOLD DOWN ANCHOR |
| MC-# | MASONRY COLUMN |
| MF-# | MOMENT FRAME |
| ML-# | MASONRY LINTEL |
| MP-# | MASONRY PIER |
| MW-# | MASONRY WALL |
| PTB-# | POST-TENSIONED CONCRETE BEAM |
| SBP-# | STEEL BASE PLATE |
| SC-# | STEEL COLUMN |
| SCP-# | STEEL CAP PLATE |
| SD-# | STEEL DECK |
| SDA-# | STEEL DECK ATTACHMENT |
| SG-# | STEEL GIRDER |
| SJ-# | STEEL JOIST |
| SND-# | SNOW DRIFT |
| WB-# | WOOD BEAM |
| WBW-# | WOOD BEARING WALL |
| WC-# | WOOD COLUMN |
| WD-# | WOOD DIAPHRAGM |
| WJ-# | WOOD JOIST |
| WSW-# | WOOD SHEAR WALL |

| ABBREVIATIONS | |
|---------------|--|
| @ | AT |
| AB | ANCHOR BOLT (S) |
| ABV | ABOVE |
| ALT | ALTERNATE |
| APPROX | APPROXIMATE |
| ARCH | ARCHITECT(URAL) |
| BLDG | BUILDING |
| BLW | BELOW |
| BM | BEAM |
| BOT | BOTTOM |
| BRG | BEARING |
| BTWN | BETWEEN |
| CJ | CONSTRUCTION JOINT OR CONTROL JOINT |
| CJP | COMPLETE JOINT PENETRATION |
| CMU | CONCRETE MASONRY UNIT |
| COL | COLUMN |
| CONC | CONCRETE |
| CONST | CONSTRUCTION |
| CONT | CONTINUOUS |
| CONTR | CONTRACTOR |
| CTR | CENTER |
| D.B. | DECK BEARING |
| db | DIAMETER OF REINFORCING BAR |
| DBA | DEFORMED BAR ANCHORS |
| DBL | DOUBLE |
| DET | DETAIL |
| DIA (OR Ø) | DIAMETER |
| DIAG | DIAGONAL |
| DIM | DIMENSION |
| DK | DECK |
| DN | DOWN |
| DWG | DRAWING |
| DWL | DOWEL |
| E.F. | EACH FACE |
| E.J. | EXPANSION JOINT (SEISMIC SEPARATION JOINT) |
| E.W. | EACH WAY |
| EA | EACH |
| EL | ELEVATION |
| ELEC | ELECTRICAL |
| ELEV | ELEVATOR |
| ENG | ENGINEER |
| EQ | EQUAL |
| EQUIP | EQUIPMENT |
| EXIST (E) | EXISTING |
| EXP | EXPANSION / EXPOSED |
| EXT | EXTERIOR |
| F.D. | FLOOR DRAIN |
| F.F. | FINISH FLOOR |
| F.V. | FIELD VERIFY |
| FDTN | FOUNDATION |
| FIN | FINISH |
| FL | FLOOR |
| FT | FOOT |
| FTG | FOOTING |
| GA | GAUGE |
| GALV | GALVANIZED |
| GLB | GLU-LAMINATED BEAM |
| GR | GRADE |
| GSN | GENERAL STRUCTURAL NOTES |
| HB | HORIZONTAL BRIDGING |
| HORIZ | HORIZONTAL |
| HSA | HEADED STUD ANCHORS |
| HSS | HOLLOW STRUCTURAL STEEL |
| HT | HEIGHT |
| I.F. | INSIDE FACE |
| IBC | INTERNATIONAL BUILDING CODE |
| ICBO | INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS |
| ICC | INTERNATIONAL CODE COUNCIL |
| IN | INCH |
| INSUL | INSULATION |
| INT | INTERIOR |
| JST | JOIST |
| JT | JOINT |
| K | KIPS - 1,000 POUNDS |
| KLF | KIPS PER LINEAL FOOT |
| KSF | KIPS PER SQUARE FOOT |
| KSI | KIPS PER SQUARE INCH |
| LBS | POUNDS |


| ABBREVIATIONS | |
|-----------------------------|--|
| Ld, Lt, Lsb, Lsbt, Ldc, Lsc | SEE CONCRETE REINFORCING BAR DEVELOPMENT AND LAP LENGTH SCHEDULE |
| LF | LINEAL FOOT |
| LFRS | LATERAL FORCE RESISTING SYSTEM (SFRS & WFRS) |
| LLH | LONG LEG HORIZONTAL |
| LLV | LONG LEG VERTICAL |
| LSH | LONG SIDE HORIZONTAL |
| LSV | LONG SIDE VERTICAL |
| MAS | MASONRY |
| MAX | MAXIMUM |
| MCJ | MASONRY CONTROL JOINT |
| MECH | MECHANICAL |
| MFGR | MANUFACTURER |
| MIN | MINIMUM |
| MISC | MISCELLANEOUS |
| NIC | NOT IN CONTRACT |
| NORM | NORMAL |
| NTS | NOT TO SCALE |
| O.C. | ON CENTER |
| O.F. | OUTSIDE FACE |
| OPNG | OPENING |
| OPP | OPPOSITE |
| OWSJ | OPEN WEB STEEL JOIST |
| P.T. | POST-TENSIONED |
| PCF | POUNDS/CUBIC FOOT |
| PJP | PARTIAL JOINT PENETRATION |
| PL | PLATE |
| PLF | POUNDS/LINEAL FOOT |
| PNL | PANEL |
| PSF | POUNDS/SQ FOOT |
| PSI | POUNDS/SQ INCH |
| R.D. | ROOF DRAIN |
| REINF | REINFORCING |
| REQD | REQUIRED |
| SFRS | SEISMIC FORCE RESISTING SYSTEM |
| SHT | SHEET |
| SI | SPECIAL INSPECTION (SP. INSP.) |
| SIM | SIMILAR |
| SOG | SLAB ON GRADE |
| SQ | SQUARE |
| STAG | STAGGERED |
| STD | STANDARD |
| STIFF | STIFFENER |
| STL | STEEL |
| STRUCT | STRUCTURAL |
| T & B | TOP AND BOTTOM |
| T.O. | TOP OF |
| TEMP | TEMPERATURE |
| THDS | THREADS |
| TOC | TOP OF CONCRETE |
| TOCP | TOP OF CONCRETE PIER |
| TOF | TOP OF FOOTING |
| TOS | TOP OF SLAB |
| TOST | TOP OF STEEL |
| TOW | TOP OF WALL |
| TYP | TYPICAL |
| UNO | UNLESS NOTED OTHERWISE |
| VERT | VERTICAL |
| W.P. | WORK POINT |
| W/ | WITH |
| WF | WIDE FLANGE |
| WFRS | WIND FORCE RESISTING SYSTEM |
| WT | WEIGHT |
| WWF | WELDED WIRE FABRIC |
| YD | YARD |

| STRUCTURAL DRAWING LIST | |
|-------------------------|--------------------------------------|
| SHT NO. | SHT NAME |
| SE001 | GENERAL STRUCTURAL NOTES |
| SE002 | GENERAL STRUCTURAL NOTES |
| SE003 | GENERAL STRUCTURAL NOTES |
| SE004 | LEGENDS & ABBREVIATIONS |
| SB101 | FOOTING & FOUNDATION PLAN |
| SB501 | TYPICAL FOOTING & FOUNDATION DETAILS |
| SB601 | CONCRETE SCHEDULES |
| SB611 | MASONRY SCHEDULES |
| SB612 | MASONRY SCHEDULES |
| SF101 | ROOF FRAMING PLAN |
| SF501 | ROOF FRAMING DETAILS |

| NO. | REVISION DESCRIPTION | DATE |
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| CONSTRUCTION | NO. | DATE |
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| JT/ARE+A | | |
| RCG/RE+A | | |
| APPROVED BY: | | |
| RELEASE | | |
| PLLOT DATE: | | |



CALL BLUESTAKES @ 1-800-662-4111 AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.

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| HERRIMAN CITY ENGINEERING DEPARTMENT CEMETERY RESTROOM BUILDING 6018 W. HERITAGE HILL DRIVE LEGENDS & ABBREVIATIONS | SE004 |
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MASONRY WALL NOTES

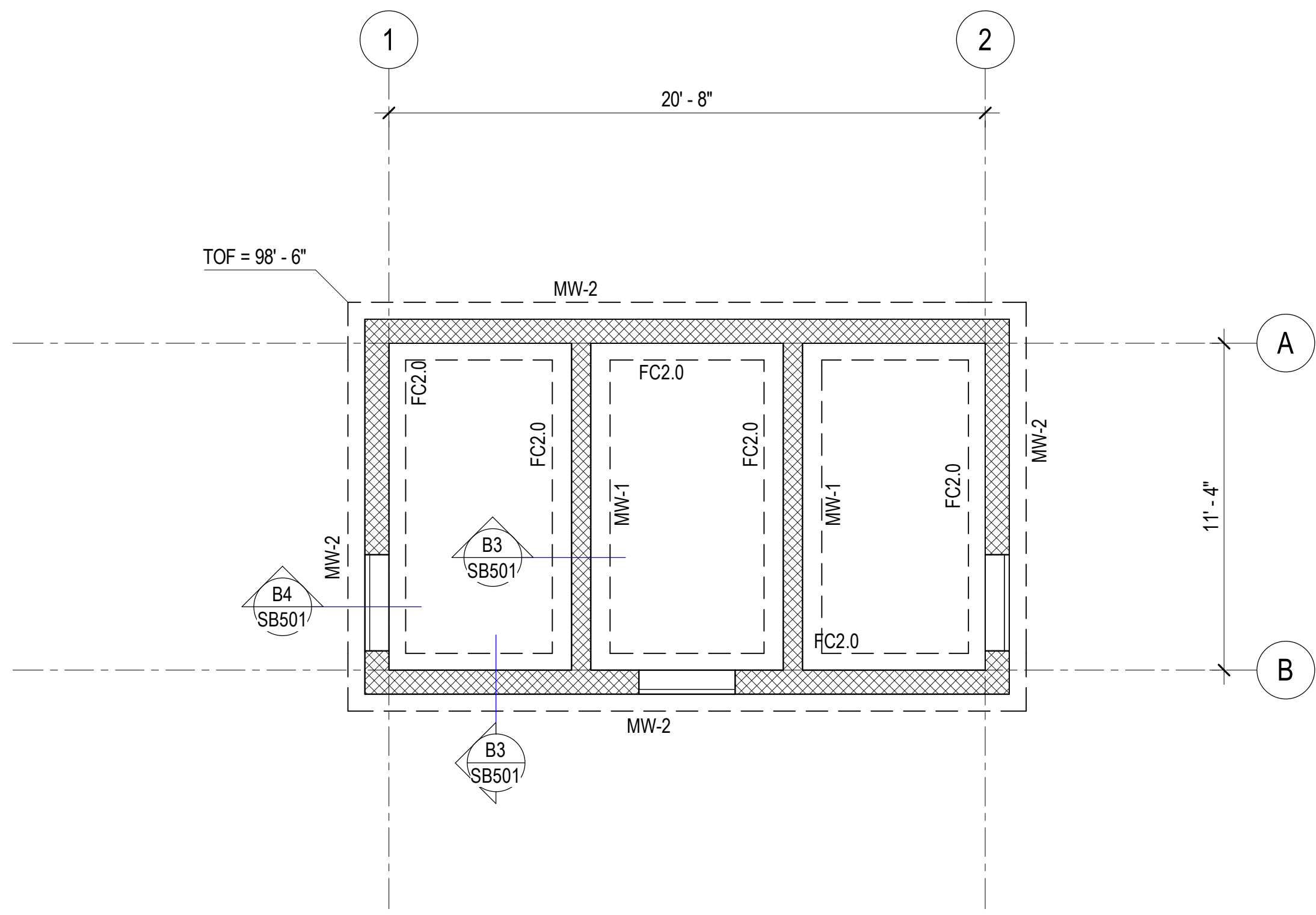
1. TERMINATE HORIZONTAL REINFORCEMENT AT CONTROL JOINTS IN MASONRY WALLS PER DETAIL A1/SB611.
2. PROVIDE ADDITIONAL HORIZONTAL AND VERTICAL REINFORCING AT WALL CORNERS, EDGES OF OPENINGS, WALL ENDS, AND WALL INTERSECTIONS PER B1/SB611
3. SEE A2/SB611 FOR TYPICAL REINFORCING AROUND MISCELLANEOUS OR RECESSED MASONRY WALL OPENINGS.
4. SEE B3/SB612 FOR REQUIRED ADDITIONAL DUCTILITY REINFORCING IN LOAD BEARING MASONRY WALLS.
5. SEE ARCHITECTURAL FOR TOP OF NON-BEARING WALL LOCATIONS.

SLAB ON GRADE PLAN NOTES

1. ALL SLABS ON GRADE SHALL BE 4 INCHES THICK, UNLESS NOTED OTHERWISE. SEE TYPICAL CONCRETE SLAB ON GRADE PROFILE DETAIL C4/SB501 FOR SUBGRADE REQUIREMENTS.
2. SEE ARCHITECTURAL, CIVIL AND LANDSCAPE DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
3. SEE ARCHITECTURAL DRAWINGS AND FINISH SCHEDULE FOR SLAB DEPRESSIONS, SLOPES TO DRAINS AND SLAB AREAS TO RECEIVE FLOOR TILE.
4. SEE TYPICAL CONCRETE SLAB ON GRADE DETAILS FOR CONSTRUCTION JOINTS, CONTROL JOINTS AND ADDITIONAL SLAB REINFORCING C2/SB501.

FOOTING & FOUNDATION PLAN NOTES

1. SEE ARCHITECTURAL, CIVIL AND LANDSCAPE DRAWINGS FOR EXTERIOR CONCRETE RETAINING AND / OR SITE WALLS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
2. SEE TYPICAL STEP DETAIL AT CONTINUOUS FOOTING FOR REINFORCING REQUIREMENTS C1/SB501.
3. DOWEL ALL CONCRETE WALLS TO FOOTING PER TYPICAL DETAIL B3/SB501.



A3 FOOTING & FOUNDATION PLAN
SB101 SCALE: 1/4" = 1'-0"

| NO. | REVISION DESCRIPTION | DATE |
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1/21/2019

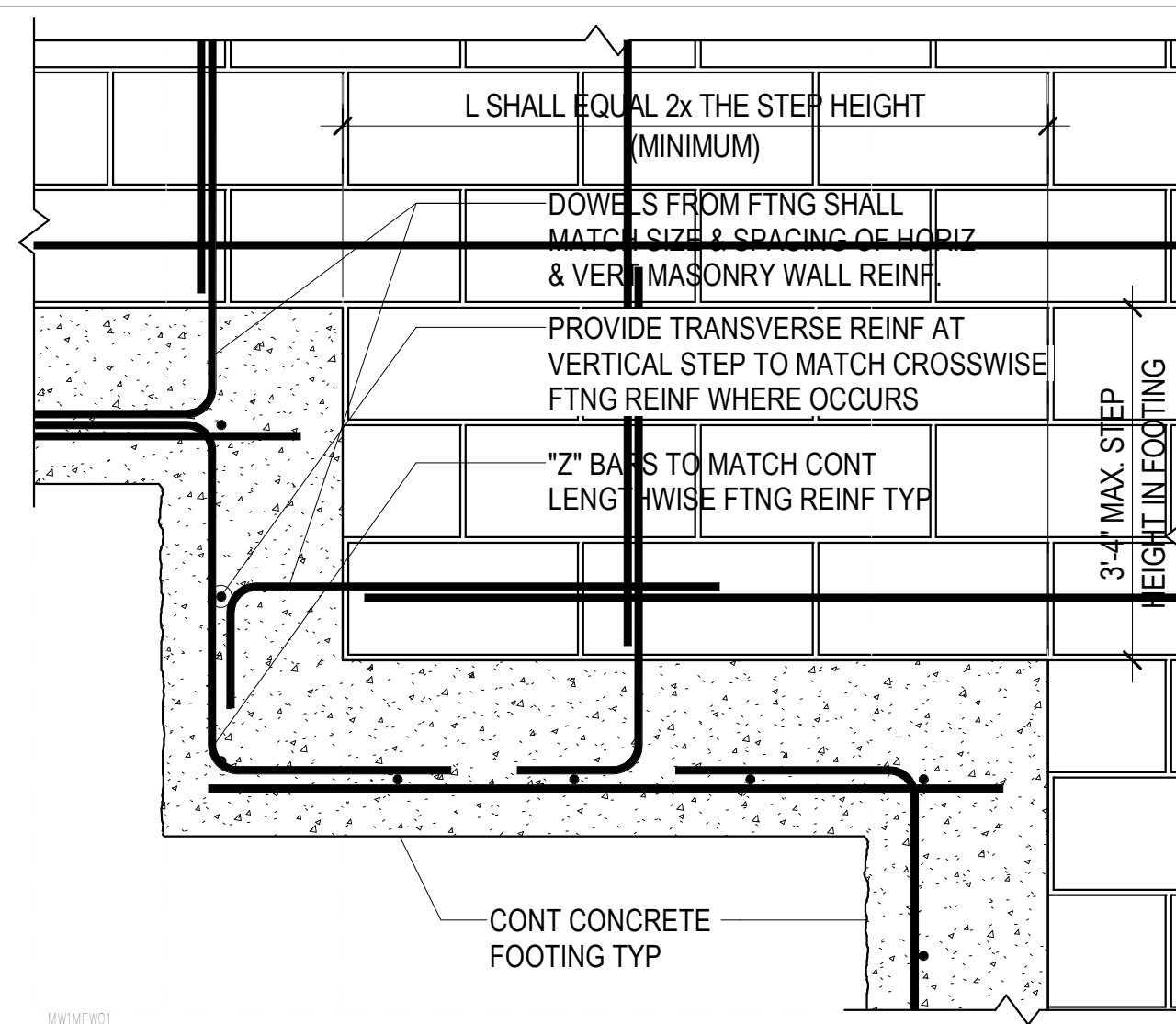
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| CONSTRUCTION | JT/ARE+A | RCG/RE+A | 1/21/2019 | |
| SUBMITTAL | DRAWN BY: | CHECKED BY: | APPROVED BY: | RELEASE |
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CALL BLUESTAKES @ 1-800-862-4111 AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

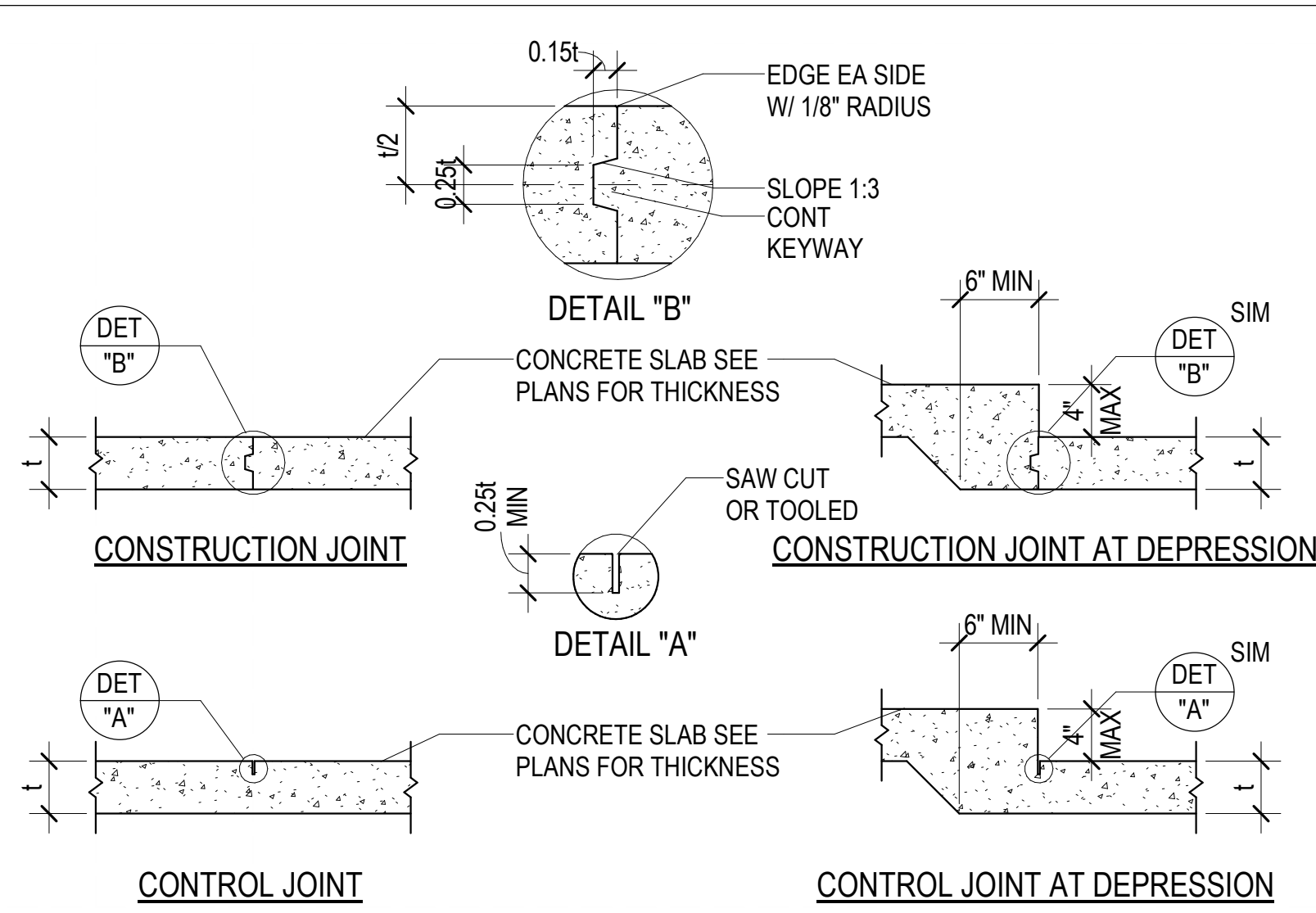
HERRIMAN CITY

HERRIMAN CITY
ENGINEERING DEPARTMENT
CEMETERY RESTROOM BUILDING
6018 W. HERITAGE HILL DRIVE
FOOTING & FOUNDATION PLAN

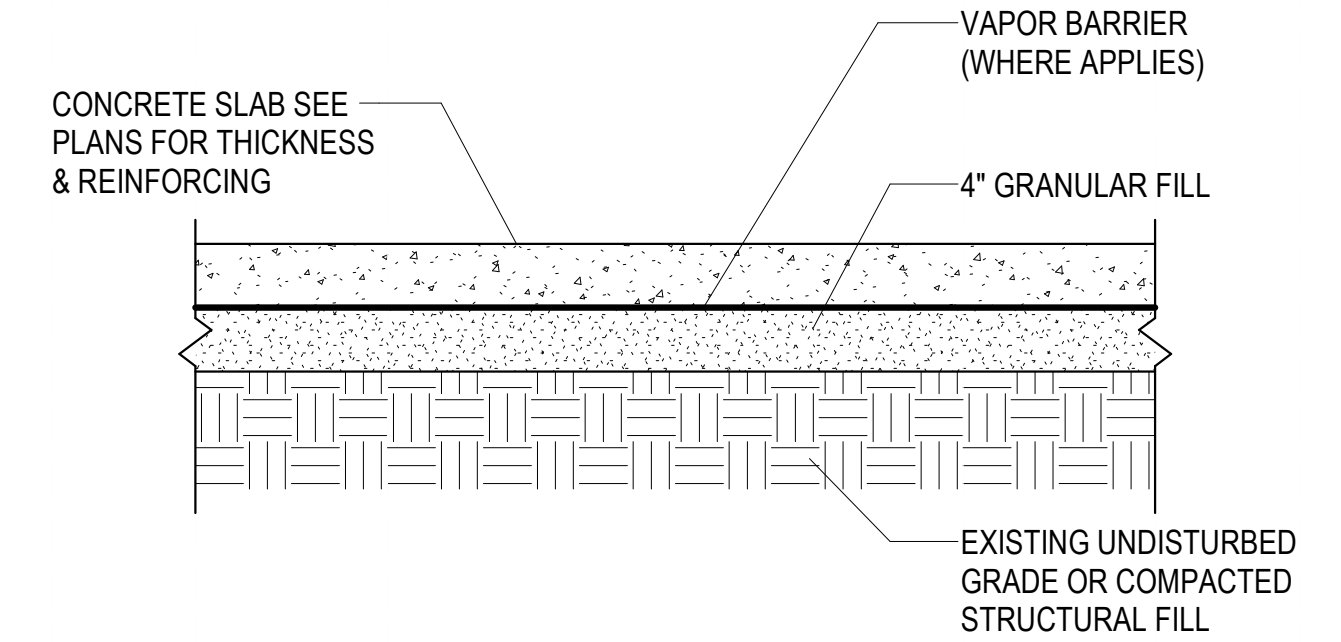
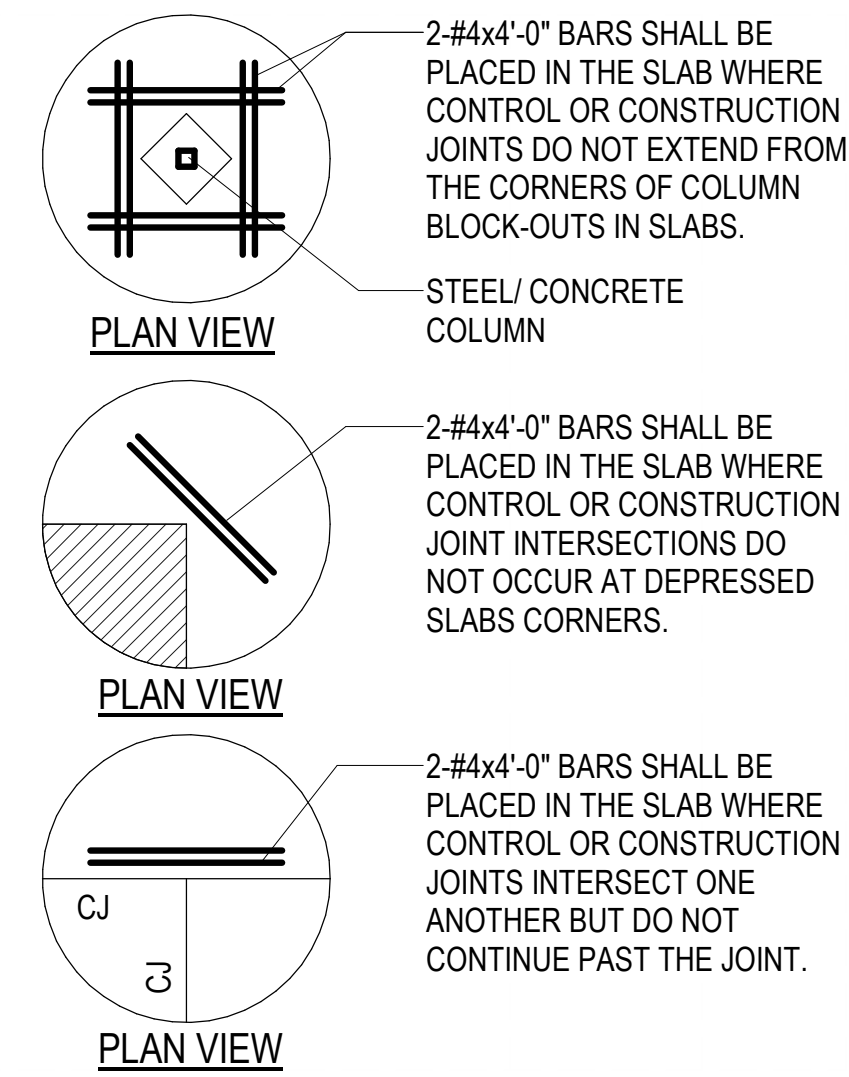
SB101



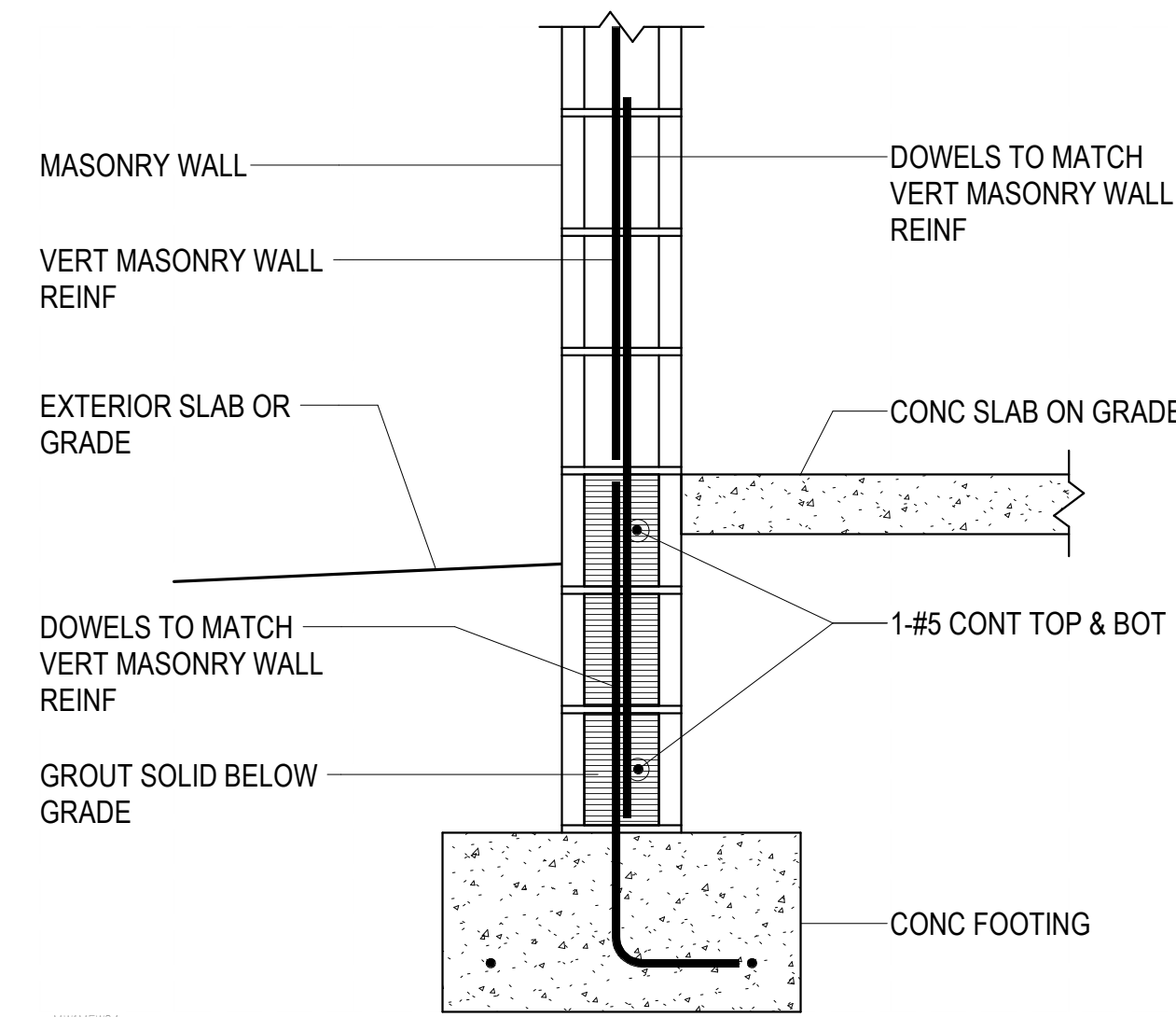
C1 TYPICAL STEP IN FOOTING DETAIL AT MASONRY FOUNDATION WALL
 SB501 NO SCALE



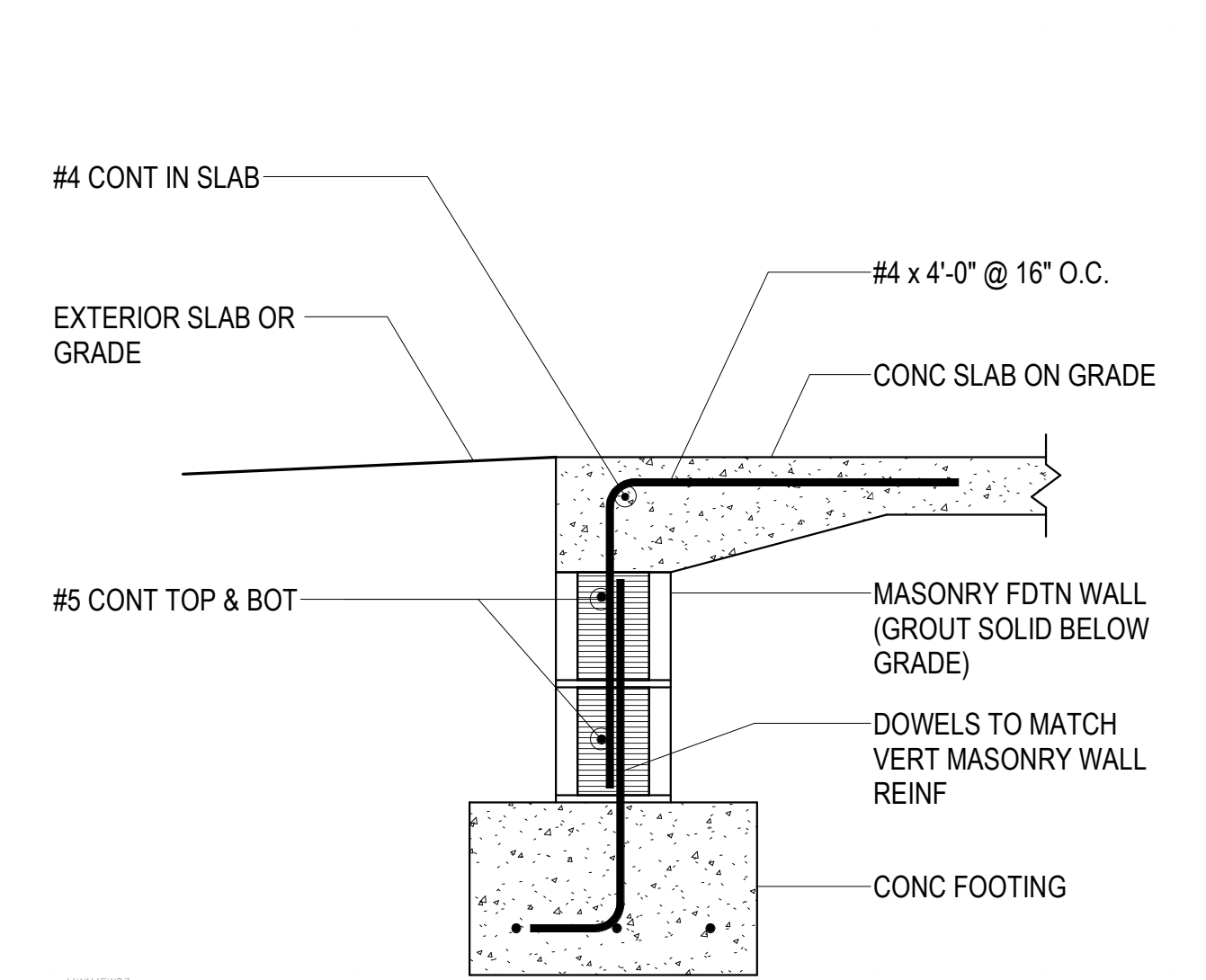
C2 TYPICAL CONCRETE SLAB ON GRADE DETAILS
 SB501 NO SCALE



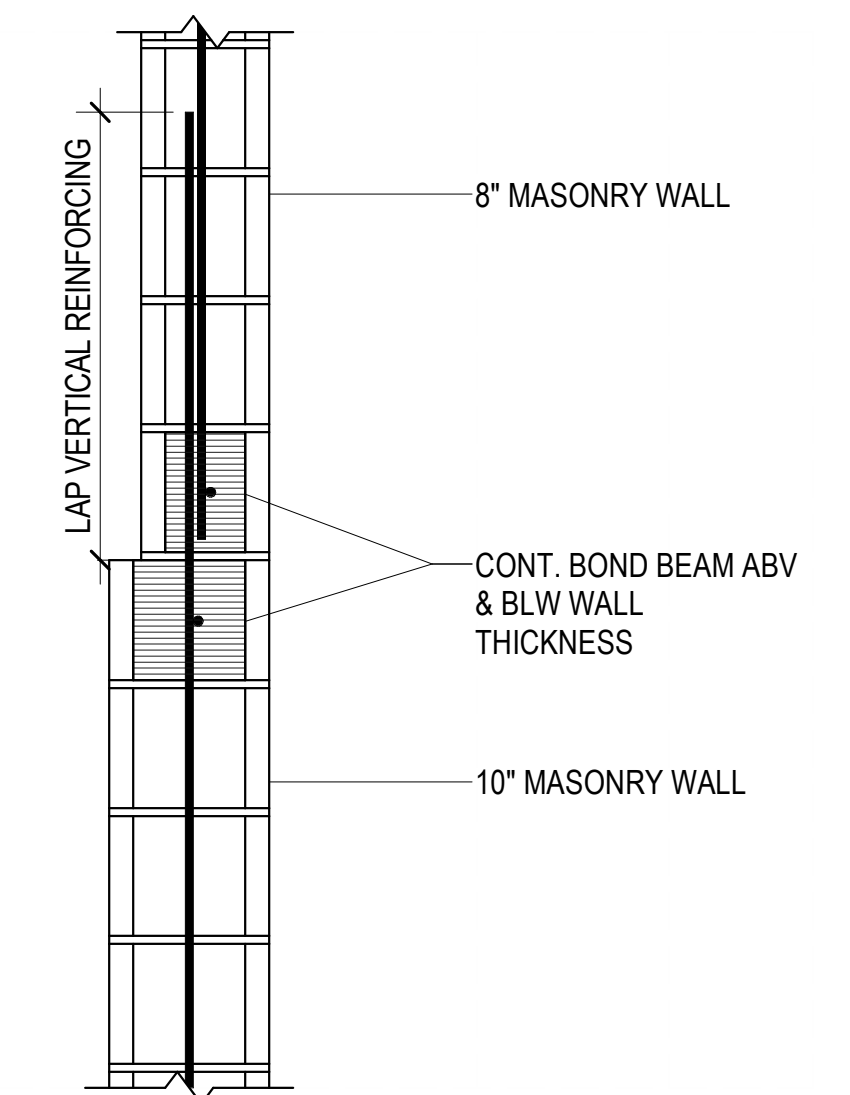
C4 TYPICAL CONCRETE SLAB ON GRADE PROFILE
 SB501 NO SCALE



B3 TYPICAL MASONRY WALL WITH MASONRY FOUNDATION
 SB501 NO SCALE



B4 TYPICAL MASONRY FOUNDATION WALL
 SB501 NO SCALE

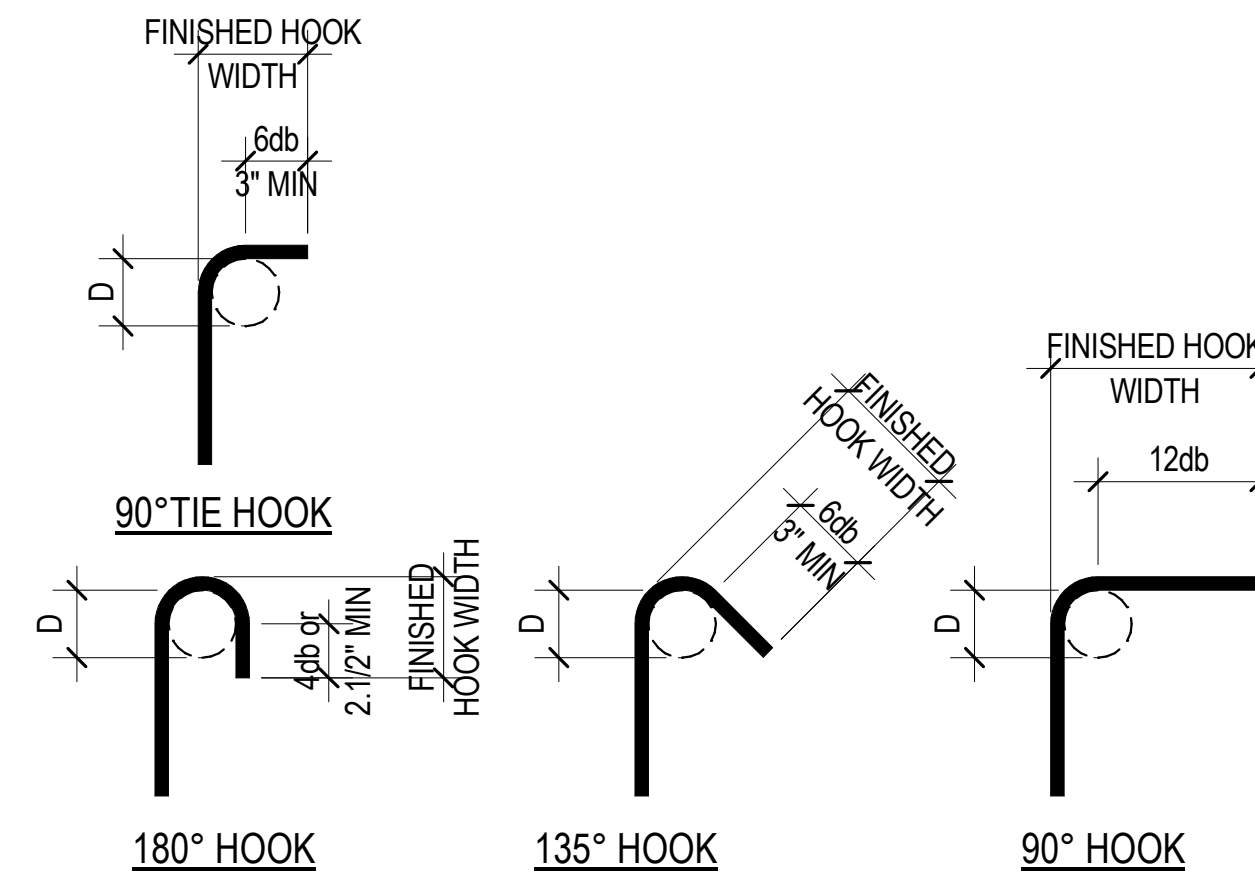


A5 STEP IN MASONRY WALL THICKNESS
 SB501 NO SCALE

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| CONSTRUCTION | JT/ARE+A | RCG/RE+A | 1/21/2019 | ... |
| SUBMITTAL | DRAWN BY: | CHECKED BY: | APPROVED BY: | RELEASE |
| CALL BLUESTAKES @ 1-800-662-4111 AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. | VERIFY SCALE | BAR IS ONE INCH ON ORIGINAL DRAWING | 1/21/2019 | ... |

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| HERRIMAN CITY ENGINEERING DEPARTMENT CEMETERY RESTROOM BUILDING 6018 W. HERITAGE HILL DRIVE |
| SB501 |



| END HOOK SCHEDULE | | | | | |
|-------------------|---------|---------------------|-----------|----------|--------------|
| BAR SIZE | D | FINISHED HOOK WIDTH | | | |
| | | 180° HOOK | 135° HOOK | 90° HOOK | 90° TIE HOOK |
| #3 | 2.1/4" | 3" | 4.1/4" | 6" | 4" |
| #4 | 3" | 4" | 4.1/2" | 8" | 4.1/2" |
| #5 | 3.1/4" | 5" | 5.1/2" | 10" | 6" |
| #6 | 4.1/2" | 6" | 8" | 12" | -- |
| #7 | 5.1/4" | 7" | 9" | 14" | -- |
| #8 | 6" | 8" | 10.1/2" | 16" | -- |
| #9 | 9.1/2" | 11.3/4" | -- | 19" | -- |
| #10 | 10.3/4" | 13.1/4" | -- | 22" | -- |
| #11 | 12" | 14.3/4" | -- | 24" | -- |
| #14 | 18.1/4" | 21.3/4" | -- | 31" | -- |
| #18 | 24" | 28.1/2" | -- | 41" | -- |

B2 REINFORCEMENT END HOOK SCHEDULE
SB601 NO SCALE

CONCRETE REINFORCING BAR DEVELOPMENT AND LAP SPLICE LENGTH SCHEDULE

| BAR SIZE | f _c = 3000 PSI | | | | f _c = 4000 PSI | | | | f _c = 4500 PSI | | | | f _c = 5000 PSI | | | | f _c = 6000 PSI | | | | f _c = ALL | |
|----------|---------------------------|------|------|------|---------------------------|------|-----|------|---------------------------|------|-----|------|---------------------------|------|-----|------|---------------------------|------|-----|------|----------------------|-----|
| | Ld | Lt | Lsb | Lsbt | Ld | Lt | Lsb | Lsbt | Ld | Lt | Lsb | Lsbt | Ld | Lt | Lsb | Lsbt | Ld | Lt | Lsb | Lsbt | Ldc | Lsc |
| #3 | 17" | 22" | 22" | 28" | 15" | 19" | 19" | 25" | 14" | 18" | 18" | 23" | 13" | 17" | 17" | 22" | 12" | 16" | 16" | 20" | 8" | 12" |
| #4 | 22" | 29" | 29" | 38" | 19" | 25" | 25" | 33" | 18" | 24" | 24" | 31" | 17" | 23" | 23" | 29" | 16" | 21" | 21" | 27" | 10" | 15" |
| #5 | 28" | 36" | 36" | 47" | 24" | 31" | 31" | 41" | 23" | 30" | 30" | 38" | 22" | 28" | 28" | 36" | 20" | 26" | 26" | 33" | 12" | 19" |
| #6 | 33" | 43" | 43" | 56" | 29" | 37" | 37" | 49" | 27" | 35" | 35" | 46" | 26" | 34" | 34" | 44" | 24" | 31" | 31" | 40" | 15" | 23" |
| #7 | 48" | 63" | 63" | 81" | 42" | 54" | 54" | 71" | 40" | 51" | 51" | 67" | 38" | 49" | 49" | 63" | 34" | 45" | 45" | 58" | 17" | 27" |
| #8 | 55" | 72" | 72" | 93" | 48" | 62" | 62" | 81" | 45" | 59" | 59" | 76" | 43" | 56" | 56" | 72" | 39" | 51" | 51" | 66" | 19" | 30" |
| #9 | 62" | 81" | 81" | 105" | 54" | 70" | 70" | 91" | 51" | 66" | 66" | 86" | 48" | 63" | 63" | 81" | 44" | 57" | 57" | 74" | 22" | 34" |
| #10 | 70" | 91" | 91" | 118" | 61" | 79" | 79" | 102" | 57" | 74" | 74" | 96" | 54" | 71" | 71" | 92" | 50" | 64" | 64" | 84" | 24" | 39" |
| #11 | 78" | 101" | 101" | 131" | 67" | 87" | 87" | 114" | 64" | 82" | 82" | 107" | 60" | 78" | 78" | 102" | 55" | 71" | 71" | 93" | 27" | 43" |
| #14 | 93" | 121" | NA | NA | 81" | 105" | NA | NA | 76" | 99" | NA | NA | 72" | 94" | NA | NA | 66" | 86" | NA | NA | 33" | NA |
| #18 | 124" | 161" | NA | NA | 108" | 140" | NA | NA | 101" | 132" | NA | NA | 96" | 125" | NA | NA | 88" | 114" | NA | NA | 43" | NA |

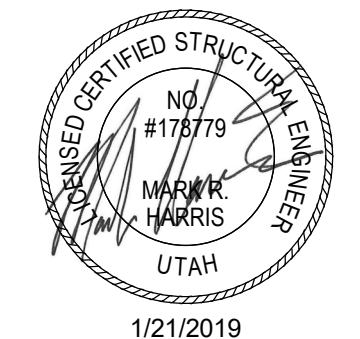
- NOTES:
 1. DEFINITIONS:
 Ld: TENSION DEVELOPMENT LENGTH FOR REINFORCEMENT SATISFYING THE FOLLOWING CONDITIONS:
 SLABS AND WALLS: CLEAR SPACING > 2db AND CONCRETE CLEAR COVER > db
 BEAMS AND COLUMNS: CLEAR COVER SPACING > db AND CONCRETE CLEAR COVER > db
 Lt: DEVELOPMENT LENGTH FOR TOP BARS IN TENSION
 Lsb: TENSION LAP SPLICE LENGTH FOR OTHER THAN TOP BARS (CLASS B)
 Lsbt: TENSION LAP SPLICE LENGTH OF TOP BARS.
 Ldc: DEVELOPMENT LENGTH FOR BARS IN COMPRESSION
 Lsc: TIED COLUMN LAP SPLICE IN COMPRESSION
 db: NOMINAL BAR DIAMETER (INCHES)
 TOP BARS: HORIZONTAL BEAM REINFORCEMENT WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW
2. MULTIPLY VALUES IN SCHEDULE BY 1.5 IF CLEAR SPACING OR CONCRETE COVER DO NOT MEET REQUIREMENTS FOR Ld IN NOTE 1.
3. MULTIPLY VALUES IN SCHEDULE BY 1.3 FOR USE IN LIGHTWEIGHT AGGREGATE CONCRETE.
4. FOR EPOXY COATED BAR: MULTIPLY VALUES IN SCHEDULE BY 1.5 FOR BARS WITH CLEAR COVER < 3db OR CLEAR SPACING < 6db. OTHERWISE MULTIPLY VALUES BY 1.2.
5. a. FOR BUNDLED BARS OF THREE OR LESS MULTIPLY LENGTHS BY 1.2.
 b. FOR BUNDLED BARS OF FOUR OR MORE MULTIPLY LENGTHS BY 1.33.
 c. INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP. ENTIRE BUNDLES SHALL NOT BE LAP SPLICED.
6. SCHEDULE LENGTHS ARE FOR f_y=60ksi REINFORCING, MULTIPLY LENGTHS BY 1.25 FOR f_y=75ksi REINFORCING.
7. LAP SPLICES ARE NOT PERMITTED FOR #14 & #18 BARS. USE BAR COUPLERS PER G.S.N.

CONCRETE FOOTING SCHEDULE

| MARK | WIDTH | LENGTH | THICK | CROSSWISE REINFORCING | | | | LENGTHWISE REINFORCING | | | | REMARKS |
|-------|-------|--------|-------|-----------------------|------|--------|-------|------------------------|------|--------|-------|---------|
| | | | | NO. | SIZE | LENGTH | SPACE | NO. | SIZE | LENGTH | SPACE | |
| FC2.0 | 2'-0" | CONT. | 1'-0" | -- | NONE | REQ'D | -- | 2 | #5 | CONT. | 18" | |

- PLACE ALL FOOTING REINFORCING IN BOTTOM OF FOOTING WITH 3" CLEAR CONCRETE COVER UNLESS NOTED OTHERWISE.
- TOP REINFORCING, WHERE SPECIFIED, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" CLEAR CONCRETE COVER.
- SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS AND CONTINUOUS FOOTINGS SHALL BE CENTERED UNDER WALLS, UNLESS NOTED OTHERWISE.
- ALL FOOTINGS SHALL BE FORMED. FOOTINGS SHALL NOT BE EARTH FORMED OR OVERSIZED WITHOUT WRITTEN PERMISSION FROM THE STRUCTURAL ENGINEER.

| NO. | REVISION DESCRIPTION | DATE |
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| CONSTRUCTION | DATE |
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| JT/ARE+A | 1/21/2019 |
| RCG/RE+A | |
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CALL BLUESTAKES @ 1-800-862-4111 AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.



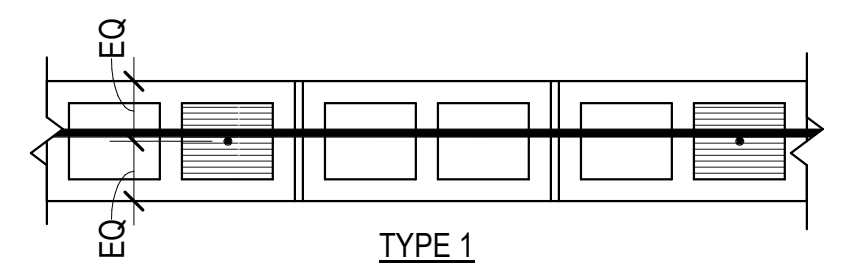
HERRIMAN CITY
 ENGINEERING DEPARTMENT
 CEMETERY RESTROOM BUILDING
 6018 W. HERITAGE HILL DRIVE
 CONCRETE SCHEDULES

SB601

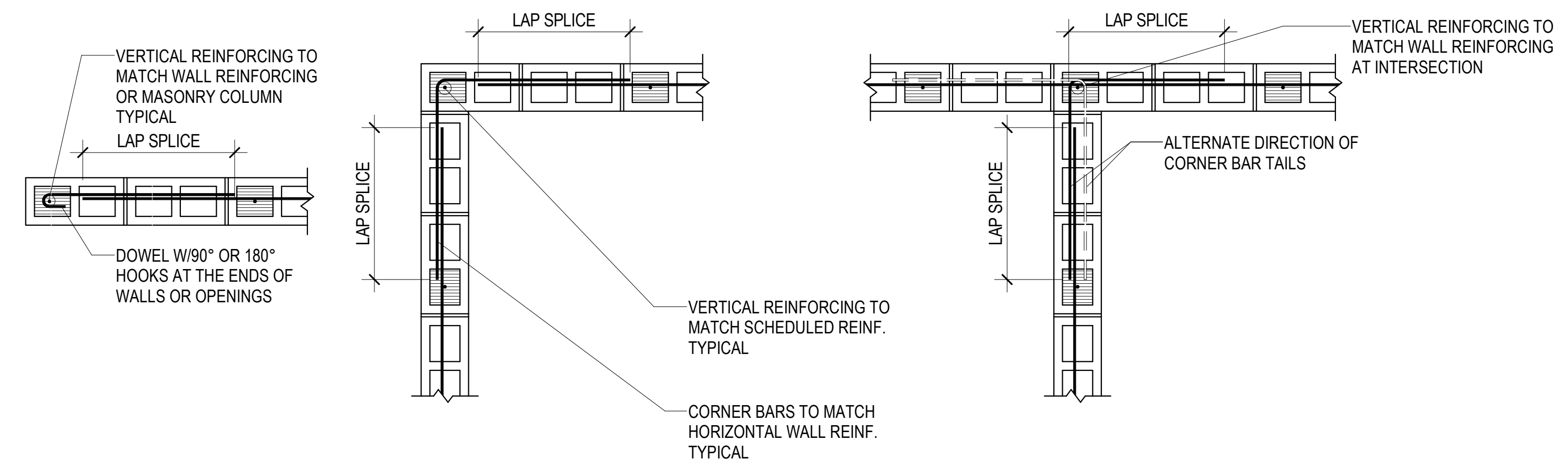
| MASONRY WALL SCHEDULE | | | | | | |
|-----------------------|-------|----------|---------------|---------------|--------|---------|
| MARK | WIDTH | MATERIAL | REINFORCING | | | REMARKS |
| | | | VERTICAL | HORIZONTAL | TYPE | |
| MW-1 | 8" | CMU | #5 @ 32" O.C. | #5 @ 32" O.C. | TYPE 1 | |
| MW-2 | 10" | CMU | #5 @ 32" O.C. | #5 @ 32" O.C. | TYPE 1 | |

NOTES

- SEE PLANS, DETAILS AND GENERAL STRUCTURAL NOTES FOR ADDITIONAL REINFORCING REQUIREMENTS.
- GROUT SOLID ALL CELLS BELOW GRADE, CELLS CONTAINING EMBEDS (HSA'S, DBA'S, ANCHOR BOLTS, ETC.), AND CELLS CONTAINING REINFORCING. CONSOLIDATE GROUT AS PER THE GENERAL STRUCTURAL NOTES.
- HORIZONTAL WALL REINFORCING SHALL CONTINUE THROUGH MASONRY LINTELS. WHERE BOTH HORIZONTAL WALL REINFORCING AND LINTEL REINFORCING OCCUR IN THE SAME COURSE, THE LARGER BARS ARE TO REPLACE THE SMALLER BARS.



C3 TYPICAL MASONRY WALL TYPES - PLAN VIEW
NO SCALE

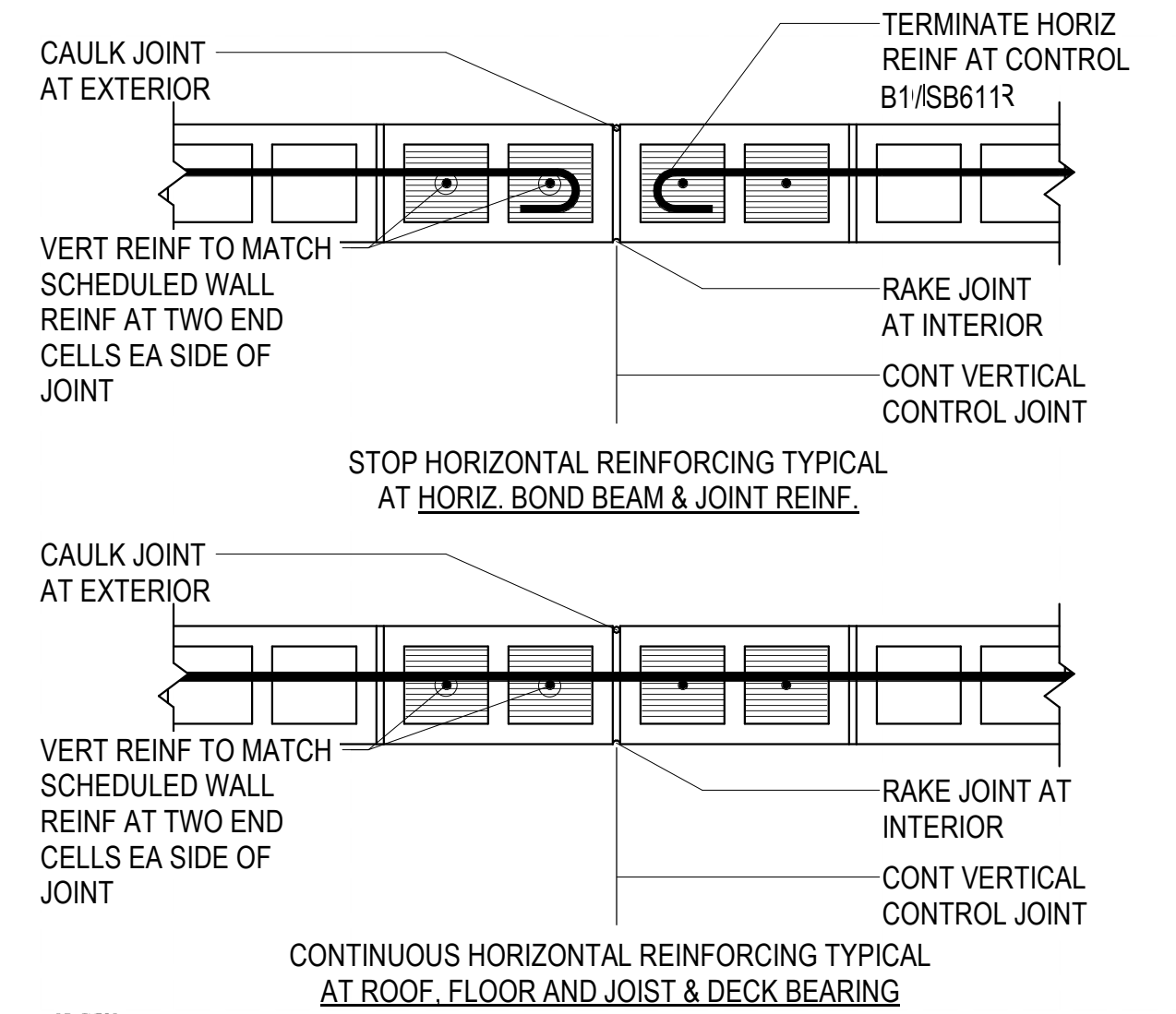


W1-FLANS WALL ENDS / EDGES OF OPENINGS

W2-CORN WALL CORNERS

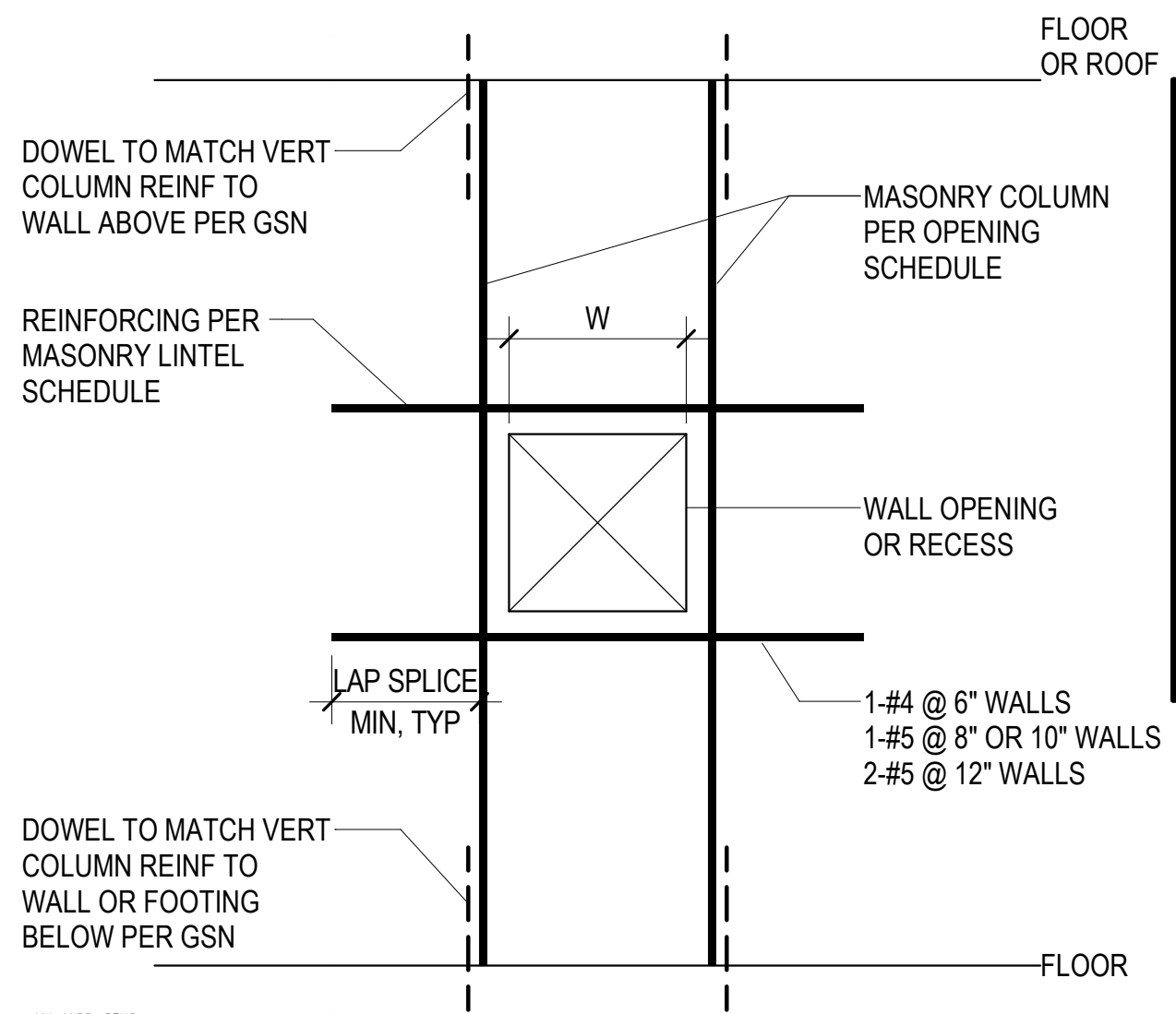
W3-INT WALL INTERSECTIONS

B1 TYPICAL MASONRY WALL END, CORNER AND INTERSECTION DETAILS
NO SCALE



CF-1906

A1 TYPICAL CONTROL JOINTS IN MASONRY WALLS
NO SCALE



W4-MISC-OPNG

A2 TYPICAL REINFORCING AROUND MISCELLANEOUS OR RECESSED MASONRY OPENINGS
NO SCALE

| MASONRY REINFORCING BAR LAP SPLICE SCHEDULE | | | | | | |
|---|---------------------------|-------|--------|-------|---------|-------|
| BAR SIZE | f _m = 2000 psi | | | | | |
| | 6" CMU | | 8" CMU | | 10" CMU | |
| | CLASS | CLASS | CLASS | CLASS | CLASS | CLASS |
| | A | A | B | A | B | |
| #3 | 12" | 12" | 12" | 12" | 12" | |
| #4 | 18" | 13" | 21" | 12" | 20" | |
| #5 | 28" | 20" | 35" | 16" | 32" | |
| #6 | ** | 38" | 54" | 29" | 54" | |
| #7 | - | 52" | ** | 40" | ** | |
| #8 | - | ** | - | 61" | ** | |
| #9 | - | - | - | 79" | - | |

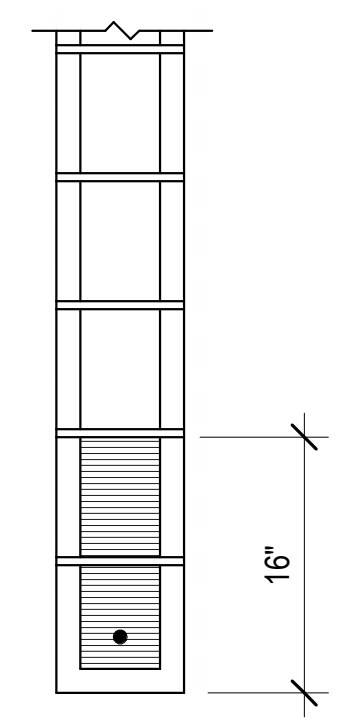
NOTES:

- CLASS A SPLICES MAY BE USED WHEN ONLY ONE BAR IS CONTINUOUS IN THE MASONRY CELL OR COURSE.
- CLASS B SPLICES SHALL BE USED WHEN TWO BARS ARE CONTINUOUS IN THE MASONRY CELL OR COURSE.
- ** INDICATES THAT A LAP SPLICE IS NOT ALLOWED AND MECHANICAL BAR COUPLERS ARE REQUIRED FOR THE BAR SPLICES. SPLICES SHALL BE OFFSET 2'-0" TO AVOID CONGESTION.
- WHERE VERTICAL BARS HAVE A REQUIRED LAP SPLICE GREATER THAN THE HEIGHT OF THE GROUT POUR, THE BAR SPLICE SHALL BE MADE WITH A MECHANICAL BAR COUPLER. WHERE THE HEIGHT OF THE GROUT POUR EXCEEDS 60 INCHES, HIGH LIFT GROUTING PROCEDURES SHALL BE FOLLOWED.
- WHERE MECHANICAL BAR COUPLERS ARE USED, THE CONNECTOR SHALL DEVELOP 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR IN TENSION AND COMPRESSION.

| MASONRY LINTEL SCHEDULE | | | | | | |
|-------------------------|------------|--------------------|-------------------|----------|--------------|---------|
| MARK | DIMENSIONS | | REINFORCING | | MAXIMUM SPAN | REMARKS |
| | DEPTH | WIDTH | HORIZONTAL | STIRRUPS | | |
| ML-1 | 16" | 6", 8", 10" OR 12" | 1-#5 CONT. BOTTOM | -- | 3'-4" | |

NOTES:

- EXTEND ALL HORIZONTAL REINFORCING 48 BAR DIAMETERS BEYOND THE EDGE OF THE OPENING. IF HORIZONTAL REINFORCING CANNOT BE EXTENDED 48 BAR DIAMETERS BEYOND THE EDGE OF THE OPENING, PROVIDE 90 DEGREE STANDARD HOOK.
- GROUT MASONRY LINTELS MONOLITHICALLY WITH THE SUPPORT WALL OR COLUMN AT EACH END.
- SPLICE TOP BARS AT MIDSPAN OF LINTEL ONLY.
- SPLICE BOTTOM BARS OVER SUPPORTS ONLY.
- FOR WALL ABOVE LINTEL, DOWEL VERTICAL REINFORCING INTO FULL DEPTH OF THE LINTEL OR 48 BAR DIAMETERS, WHICHEVER IS LESS.
- HORIZONTAL WALL REINFORCING SHALL CONTINUE THROUGH MASONRY LINTELS. WHERE BOTH HORIZONTAL WALL REINFORCING AND LINTEL REINFORCING WOULD OCCUR IN THE SAME COURSE, THE LARGER BARS ARE TO REPLACE THE SMALLER BARS.

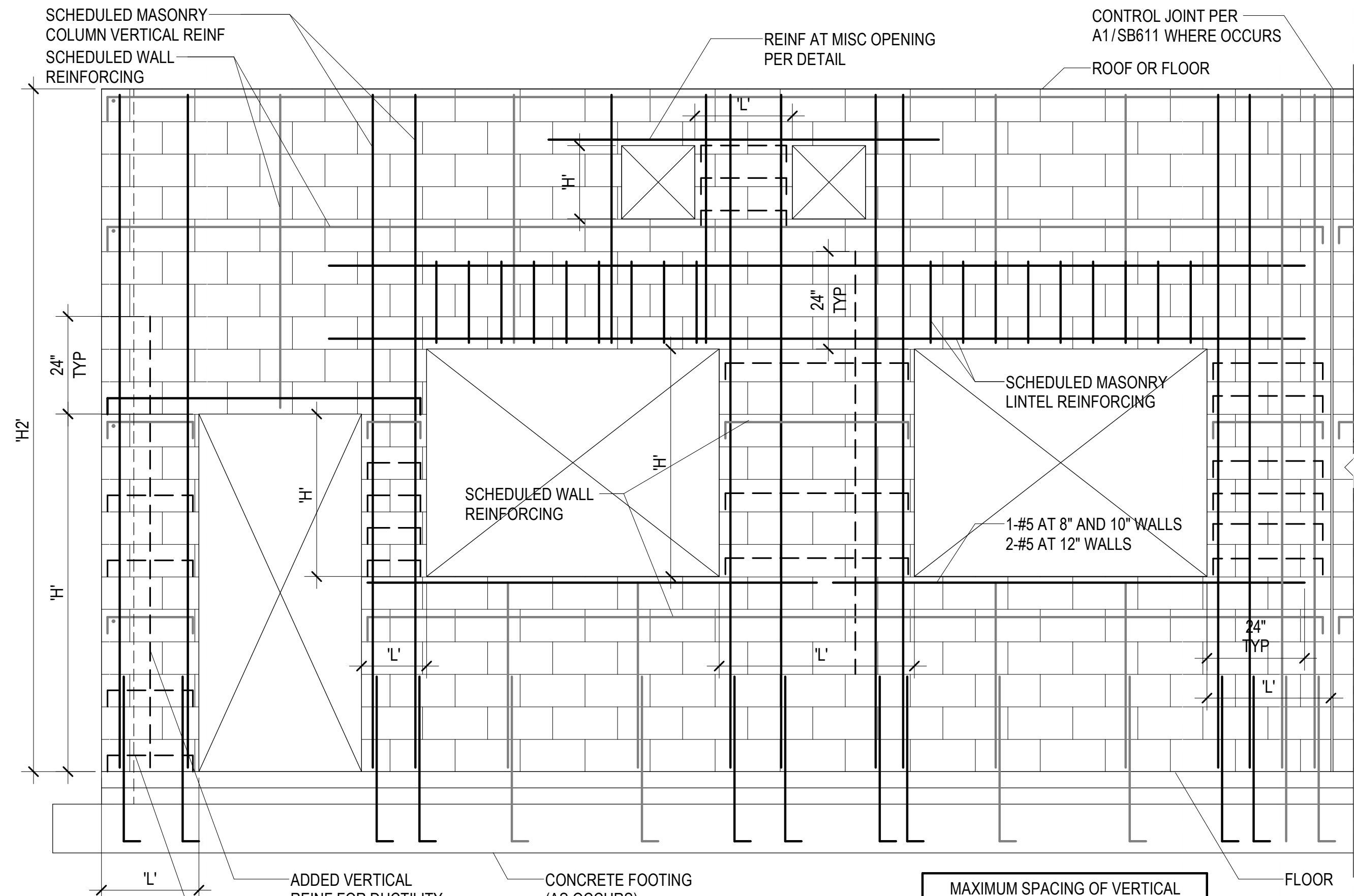


ML-1

W5-LINTEL

A4 TYPICAL MASONRY LINTEL DETAILS
NO SCALE

| | |
|---|-----------|
| DATE | |
| REVISION DESCRIPTION | |
| NO. | |
| | |
| CONSTRUCTION | JT/ARE+A |
| SUBMITAL | RCG/RE+A |
| DRAWN BY: | 1/21/2019 |
| CHECKED BY: | |
| APPROVED BY: | |
| RELEASE | |
| PLOT DATE: | |
| CALL BLUESTAKES @ 1-800-862-4111 AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. | |
| | |
| HERRIMAN CITY ENGINEERING DEPARTMENT CEMETERY RESTROOM BUILDING 6018 W. HERITAGE HILL DRIVE MASONRY SCHEDULES | |
| SB611 | |



- NOTES:
1. ADDED BAR SIZE SHALL BE 1-#4 MINIMUM.
 2. ALL ADDED BARS SHALL BE EMBEDDED IN GROUT.
 3. ALL ADDED HORIZONTAL REINFORCING SHALL BE TERMINATED WITH A 90° OR 180° STANDARD HOOK AROUND THE VERTICAL REINFORCING.
 4. FOR WALLS WITH 'H2' AND 'L' ≥ 12'-0" OR LARGER ADDITIONAL REINFORCING FOR DUCTILITY IS NOT REQUIRED.

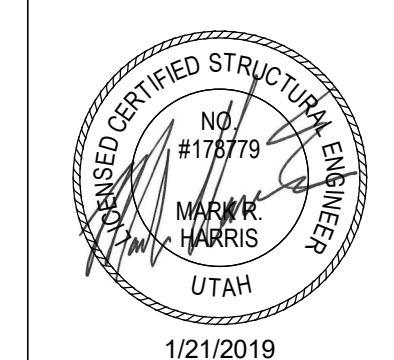
WALL REINFORCING LEGEND

- SCHEDULED WALL REINF
- SCHEDULED OPENING REINF
- - - ADDED REINF FOR DUCTILITY

| MAXIMUM SPACING OF VERTICAL AND HORIZONTAL BARS | |
|---|----------|
| HEIGHT-WIDTH | SPACING |
| (H or L) < 4'-0" | 8" O.C. |
| 4'-0" ≤ (H or L) < 6'-0" | 16" O.C. |
| 6'-0" ≤ (H or L) < 8'-0" | 24" O.C. |
| 8'-0" ≤ (H or L) < 10'-0" | 32" O.C. |
| 10'-0" ≤ (H or L) < 12'-0" | 40" O.C. |
| 12'-0" ≤ (H or L) | 48" O.C. |

B3 TYPICAL MASONRY WALL OPENINGS WITH ADDITIONAL DUCTILITY REINFORCMENT FOR MASONRY SHEAR WALLS
SB612 NO SCALE

| NO. | REVISION DESCRIPTION | DATE |
|-----|----------------------|------|
| | | |
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| CONSTRUCTION | DATE |
|--------------|-----------|
| JT/ARE+A | 1/21/2019 |
| RCG/RE+A | |
| | |
| | |

CALL BLUESTAKES @ 1-800-862-4111 AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.

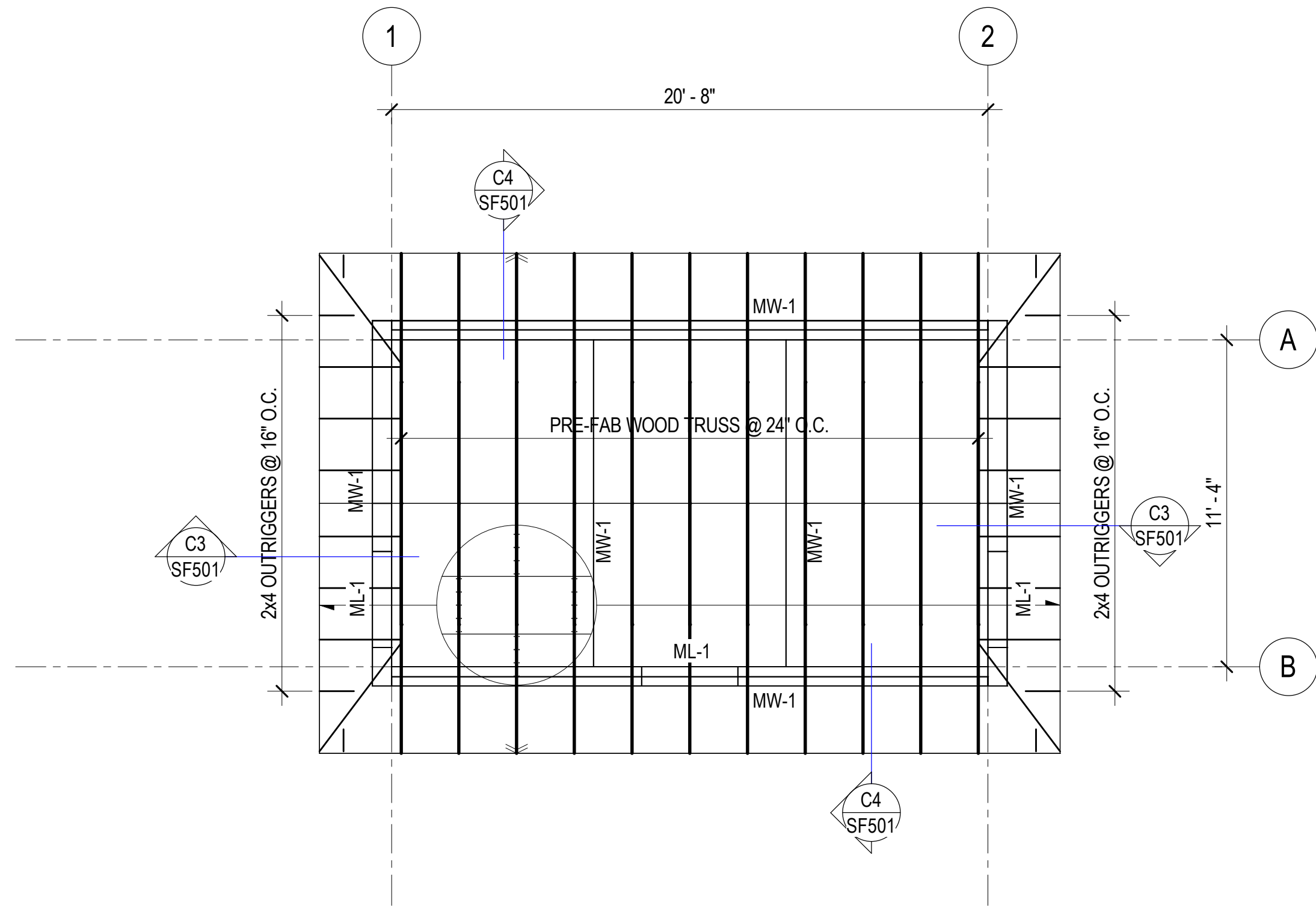


HERRIMAN CITY
 ENGINEERING DEPARTMENT
 CEMETERY RESTROOM BUILDING
 6018 W. HERITAGE HILL DRIVE
 MASONRY SCHEDULES

SB612

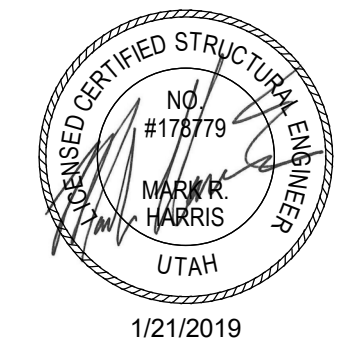
ROOF FRAMING PLAN NOTES

- SEE A3/SF501 FOR TRUSS LOADING DIAGRAMS.
- TYPICAL ROOF FRAMING IS WOOD SHEATHING OVER PREFAB METAL PLATE WOOD TRUSSES.



A3 ROOF FRAMING PLAN
SF101 SCALE: 1/4" = 1'-0"

| NO. | REVISION/DESCRIPTION | DATE |
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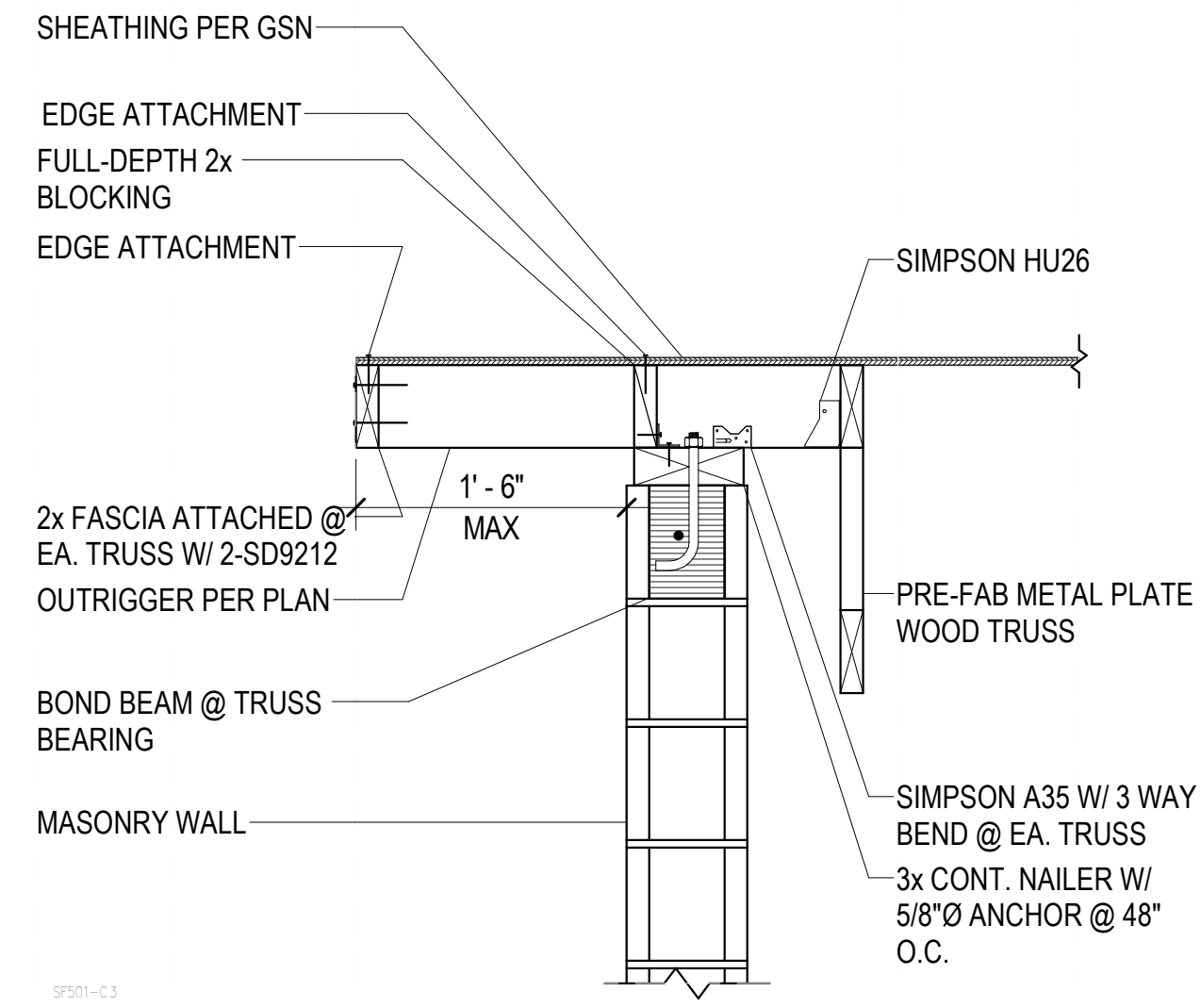
| CONSTRUCTION | SUBMITTAL |
|--------------|--------------|
| JTARE+A | DRAWN BY: |
| RCGRRE+A | CHECKED BY: |
| | APPROVED BY: |
| | RELEASE: |
| | PLOT DATE: |

CALL BLUESTAKES @ 1-800-862-4111 AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.

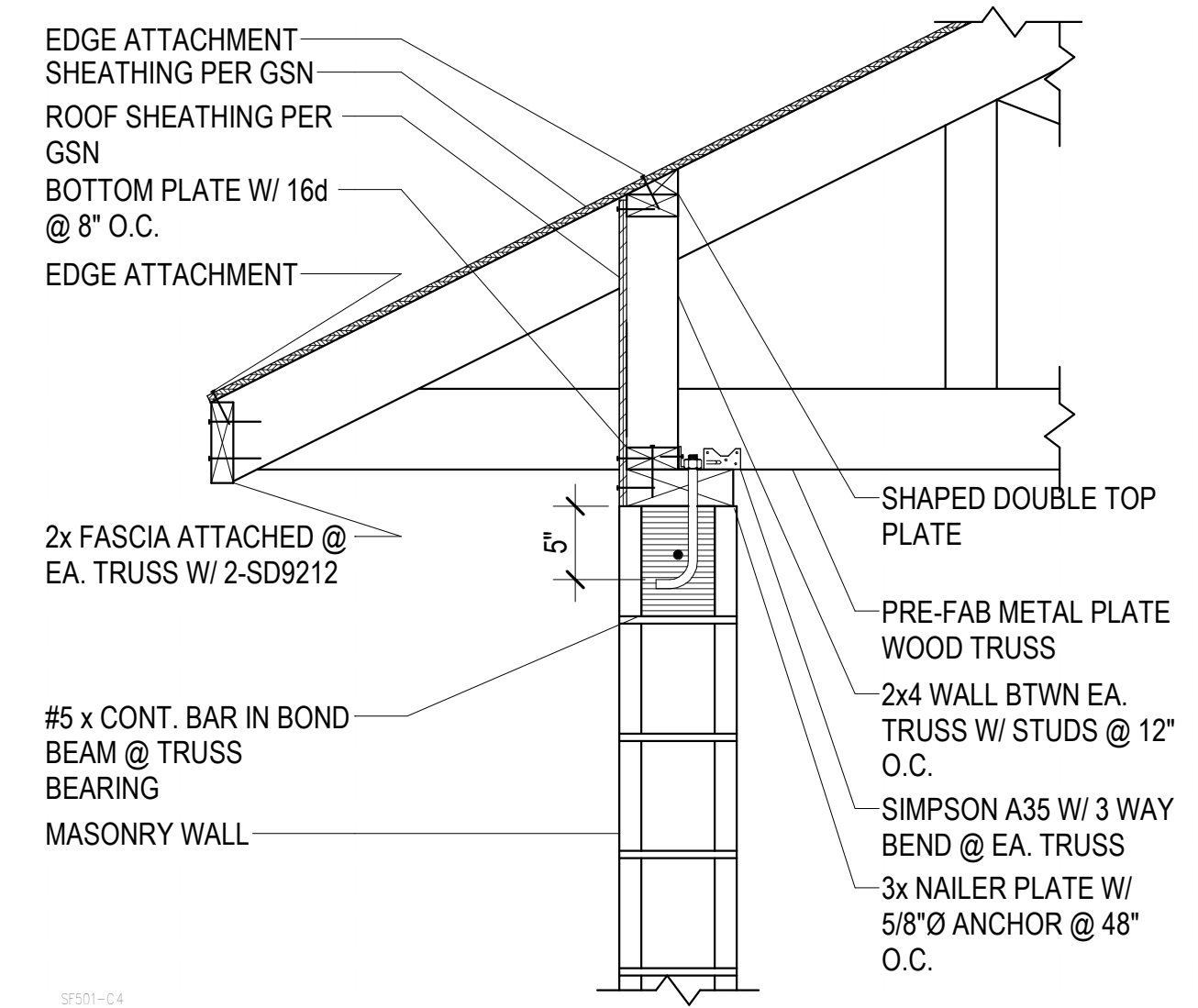


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 ROOF FRAMING PLAN

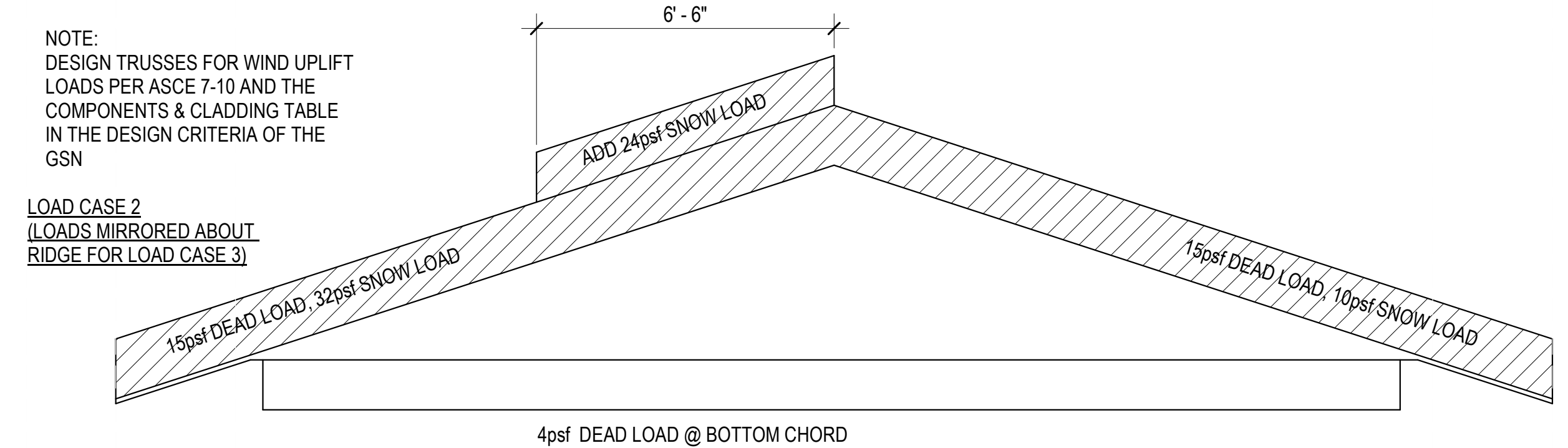
SF101



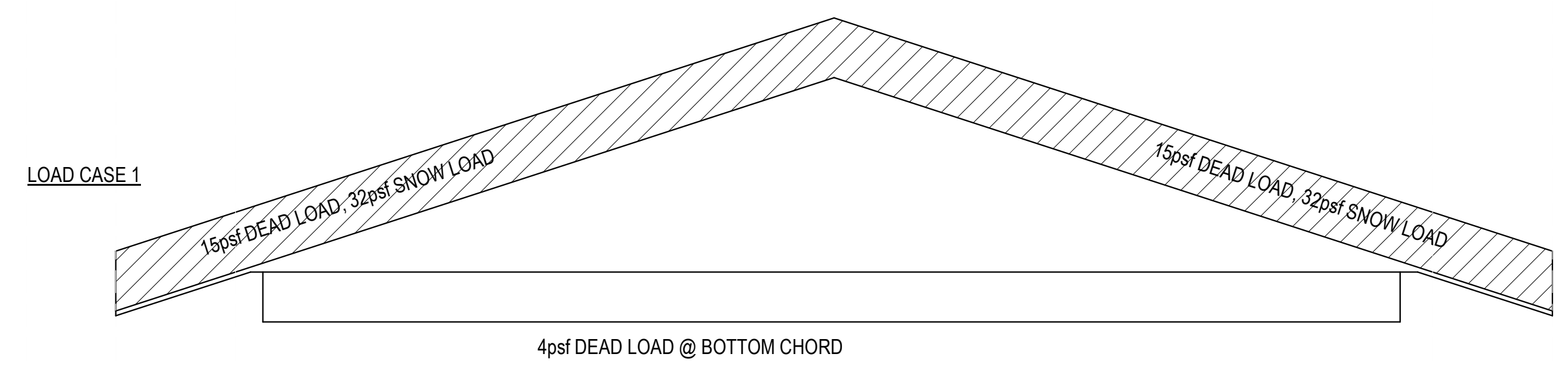
SF501-C3
C3 WOOD OUTRIGGER OVER MASONRY AT GABLE END
 SF501 NO SCALE



SF501-C4
C4 WOOD TRUSS AT MASONRY WALL
 SF501 NO SCALE



LOAD CASE 2
 (LOADS MIRRORED ABOUT RIDGE FOR LOAD CASE 3)



LOAD CASE 1

A3 TRUSS LOADING
 SF501 NO SCALE

| NO. | REVISION DESCRIPTION | DATE |
|-----|----------------------|------|
| | | |
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| | | |

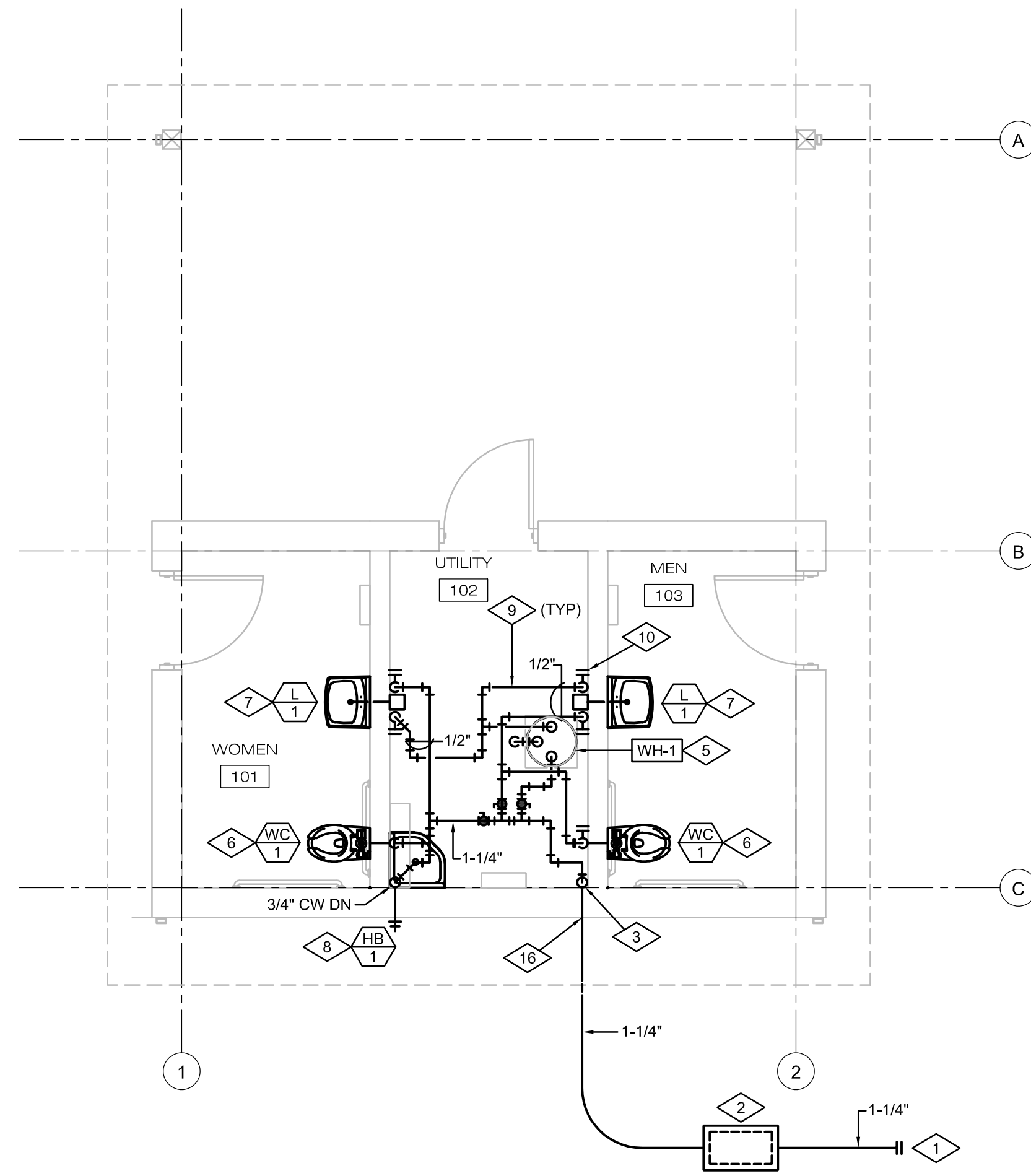
1/21/2019

| CONSTRUCTION | SUBMITAL | CALL BLUESTAKES |
|--------------|--------------|-------------------------------------|
| JT/AE+A | DRAWN BY: | @ 1-800-662-4111 AT |
| RC/GRE+A | CHECKED BY: | LEAST 48 HOURS PRIOR |
| | APPROVED BY: | TO THE COMMENCEMENT |
| | RELEASE: | OF ANY CONSTRUCTION. |
| | PLOT DATE: | VERIFY SCALE |
| | | BAR IS ONE INCH ON ORIGINAL DRAWING |

HERRIMAN CITY

HERRIMAN CITY
 ENGINEERING DEPARTMENT
 CEMETERY RESTROOM BUILDING
 6018 W. HERITAGE HILL DRIVE
 ROOF FRAMING DETAILS

SF501



PLUMBING FLOOR PLAN - GAS & WATER



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

2



PLUMBING FLOOR PLAN - WASTE & VENT



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

1

REFERENCE NOTES

- 1 POINT OF CONNECTION (P.O.C.) CONNECT TO SITE UTILITY PIPING IN THIS LOCATION. MATCH PIPING SIZE AND MATERIAL OR PROVIDE COMPATIBLE TRANSITION.
- 2 WATER VALVE BOX WITH DRAIN FITTING. INSTALL WATER VALVE BOX WITH CURB STOP VALVES AND DRAINAGE FITTING. SEE DETAIL 6/P501.
- 3 BUILDING DOMESTIC WATER SERVICE ENTRANCE. SEE DETAIL 1/P502.
- 4 INSTALL ISOLATION BALL VALVES TO ISOLATE SERVICE TO EACH RESTROOM AND TO THE WATER HEATER. (TYP)
- 5 INSTALL ELECTRIC WATER HEATER ON WALL IN THIS LOCATION. PROVIDE SUPPORTING WALL SHELF AND BRACKETS. SEE DETAIL 3/P502.
- 6 INSTALL ADA COMPLIANT WALL MOUNTED STAINLESS STEEL WATER CLOSET IN THIS LOCATION. PROVIDE CONCEALED CHAIR CARRIER AND FLUSH VALVE IN UTILITY ROOM. PIPE 4" WASTE AND 2" VENT LINES FROM WATER CLOSET AND CONNECT TO MAIN WASTE AND VENT LINES AS INDICATED. PIPE 1-1/4" CW LINE DOWN AND CONNECT TO CONCEALED FLUSH VALVE IN UTILITY ROOM. MAKE ALL REQUIRED PIPING CONNECTIONS FOR A COMPLETE INSTALLATION. SEE ARCHITECTURAL DRAWINGS FOR PREFERRED MOUNTING HEIGHT OF WATER CLOSET.
- 7 INSTALL ADA COMPLIANT WALL MOUNTED STAINLESS STEEL LAVATORY IN THIS LOCATION. PROVIDE CONCEALED ARMS CARRIER AND MIXING VALVE IN UTILITY ROOM. PIPE 1-1/2" WASTE AND 1-1/2" VENT LINES FROM LAVATORY AND CONNECT TO MAIN WASTE AND VENT LINES AS INDICATED. PIPE 1/2" CW AND 1/2" HW TO CONCEALED MIXING VALVE IN UTILITY ROOM. PIPE 1/2" TEMPERED WATER LINE THROUGH WALL TO LAVATORY FAUCET. MAKE ALL REQUIRED PIPING CONNECTIONS FOR A COMPLETE INSTALLATION. SEE ARCHITECTURAL DRAWINGS FOR PREFERRED MOUNTING HEIGHT.
- 8 PIPE 3/4" CW LINE DOWN TO NON-FREEZE HOSE BIBB. MOUNT HOSE BIBB 18" ABOVE FINISHED GRADE.
- 9 PIPING TO RUN HIGH NEAR STRUCTURE. COORDINATE LOCATION WITH MECHANICAL, STRUCTURAL, AND ELECTRICAL TRADES.
- 10 PROVIDE "T" FITTINGS WITH BALL VALVES AT EACH PLUMBING FIXTURE WATER SUPPLY LINE TO THOROUGHLY DRAIN AND WINTERIZE ALL WATER LINES SERVING THE RESTROOM FIXTURES. SEE DETAIL 1/P501.
- 11 CLEANOUT TO GRADE (COTG). SEE DETAIL 5/P501.
- 12 FLOOR CLEANOUT (FCO). SEE DETAIL 4/P502.
- 13 WASTE PIPING TO RUN 30" BELOW FLOOR SLAB OR GRADE LINE. SLOPE PIPING AT 2%.
- 14 VENT THRU ROOF (VTR). TERMINATE 18" A.F.R. (TYP) COORDINATE ROOF PENETRATION WITH MECHANICAL EXHAUST FAN AND ARCHITECT. SEE DETAIL 5/P502.
- 15 LOCATE FLOOR DRAIN IN THIS LOCATION. COORDINATE FLOOR DRAIN LOCATION WITH ARCHITECT.
- 16 COORDINATE LOCATION OF PIPING WITH STRUCTURAL FOOTINGS. COORDINATE WITH GENERAL CONTRACTOR AND STRUCTURAL ENGINEER FOR PIPE SLEEVES THROUGH FOUNDATION WALLS.

| PLUMBING FIXTURE SCHEDULE | | | | | | | |
|---------------------------|------------------------|--------|--------|--------|------|------|---|
| SYMBOL | FIXTURE | WASTE | VENT | C.W. | H.W. | T.W. | NOTES |
| | WATER CLOSET | 4" | 2" | 1-1/4" | - | - | ADA, WALL MTD, SIPHON JET 1.6 GPF, STAINLESS STEEL CONCEALED FLUSH VALVE, WHITE IN COLOR ACORN 2105-W-1-1.6-FVBO-EGE |
| | LAVATORY - ADA | 1 1/2" | 1 1/2" | - | - | 1/2" | ADA, WALL MTD, 18" x 22" STAINLESS STEEL BASIN, CONCEALED MIXING VALVE, AIR CONTROLLED VALVE, SINGLE HOLE PUNCH. ACORN 1953-1-DMS-9-MHEGE |
| | MIXING VALVE | - | - | 1/2" | 1/2" | 1/2" | ACORN ST70-LEAD FREE, ASSE 1070 SET @ 105° F |
| | FLOOR DRAIN | 2" | 2" | - | - | - | J.R. SMITH 2005, NICKEL BRONZE STRAINER W/ DEEP SEAL P-TRAP AND PROSET TRAP GUARD |
| | HOSE BIBB FREEZE PROOF | - | - | 3/4" | - | - | J.R. SMITH 5609QT, FREEZE PROOF, QUARTER TURN, LOOSE KEY, WALL CLAMP, INTEGRAL VACUUM BREAKER |
| | HOSE BIBB | - | - | 1/2" | - | - | CHICAGO 387-E27CP |

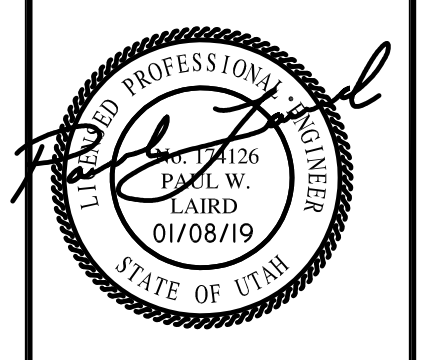
PLUMBING EQUIPMENT SCHEDULE

| | |
|--|---|
| | ELECTRIC WATER HEATER, POINT OF USE, 6 GALLON STORAGE CAP, 3/4" INLET AND OUTLET., T&P VALVE, 2000 WATT HEATING ELEMENT, HIGH TEMP SAFETY CUT-OUT, 120 VOLT 1 PHASE POWER, FURNISH W/ WALL BRACKET AND SHELF, 1/4 TURN BALL VALVE DRAIN, MOUNT 48" ABOVE FINISHED FLOOR. MANUFACTURER: RHEEM MODEL: 81VP6S ELECTRICAL: 2000 WATT, 120 VOLT / 1 PHASE SIZE: 16" DIA X 16" TALL WEIGHT: 50 LBS |
| | DOMESTIC WATER EXPANSION TANK, 2 GALLON TOTAL VOLUME, 0.9 GALLON ACCEPTANCE VOLUME, PRE-CHARGED DIAPHRAGM, MAXIMUM WORKING PRESSURE 150 PSI, NSF 61, 200 DEG F MAX TEMP, MOUNT ON WALL NEAR WATER HEATER. CONFIGURE INSTALLATION TO PROVIDE FOR FULL DRAINAGE AND WINTERIZATION. MANUFACTURER: AMTROL MODEL: ST-5 SIZE: 8" DIA X 13" TALL WEIGHT: 5 LBS |

PLUMBING PIPING LEGEND

| | |
|------------|-------|
| COLD WATER | ————— |
| HOT WATER | ————— |
| WASTE | ————— |
| VENT | ————— |

| NO. | REVISION DESCRIPTION | DATE |
|-----|----------------------|------|
| | | |
| | | |
| | | |



| | | | | |
|---------------------|-----|-----|----------|--------|
| CONSTRUCTION STAFF | PML | PML | 01/08/19 | 1/8/19 |
| SUBMITTAL DRAWN BY: | | | | |
| CHECKED BY: | | | | |
| APPROVED BY: | | | | |
| RELEASE: | | | | |
| PLOT DATE: | | | | |

CALL BLUESTAKES @ 1-800-662-4111 AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.

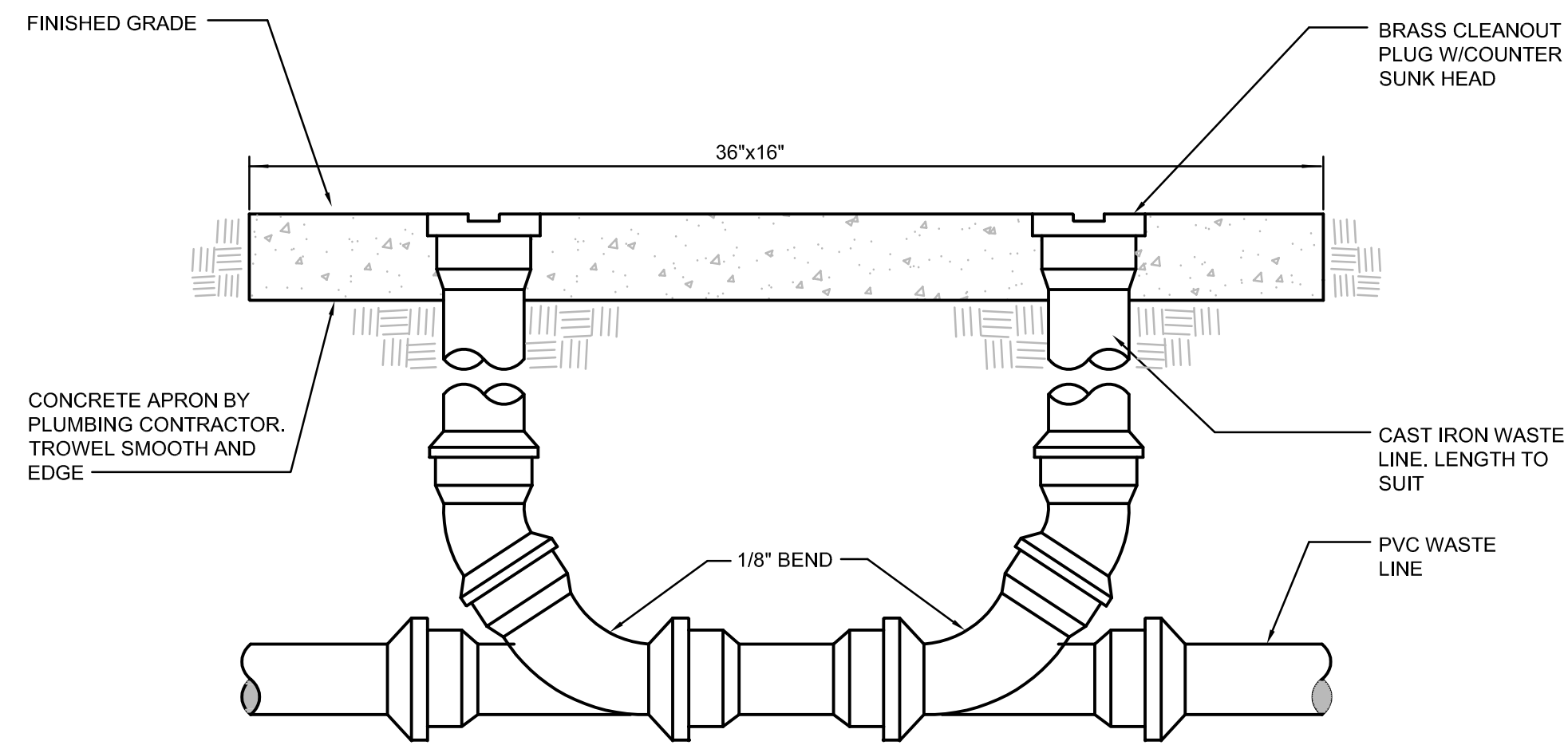
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING



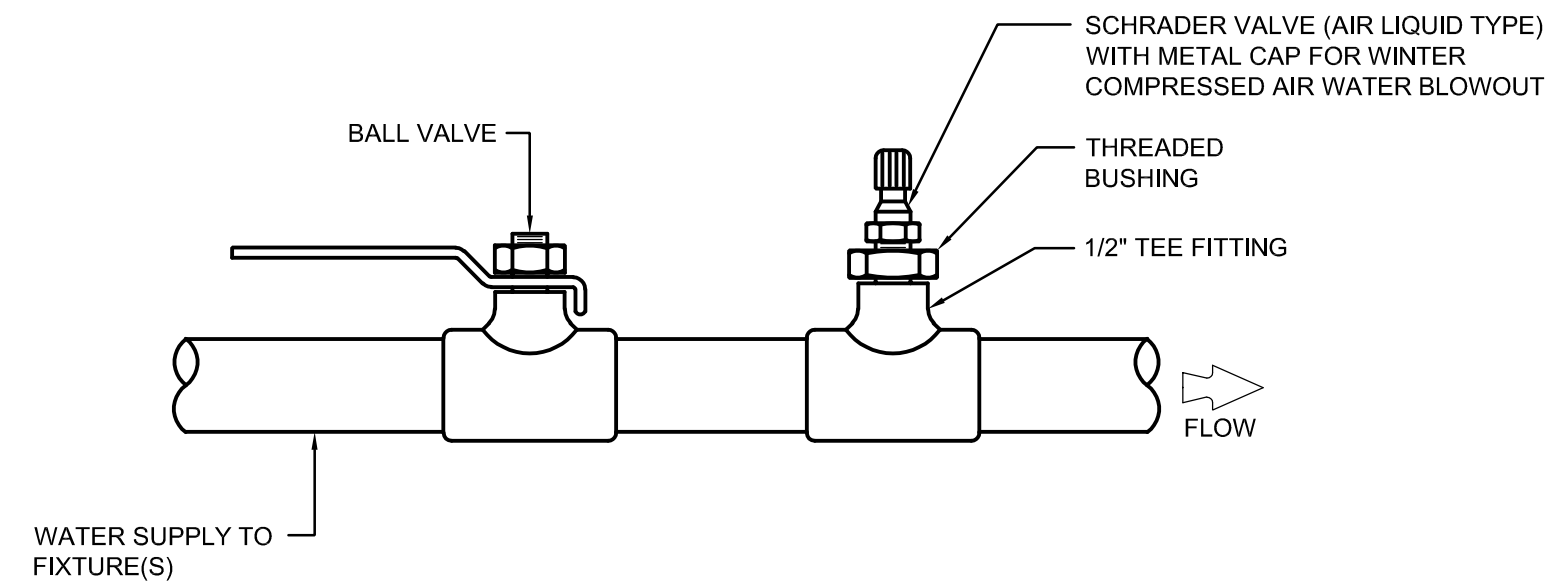
HERRIMAN CITY
ENGINEERING DEPARTMENT
 CEMETERY RESTROOM BUILDING
 6018 W. HERITAGE HILL DRIVE
 PLUMBING FLOOR PLANS

P101

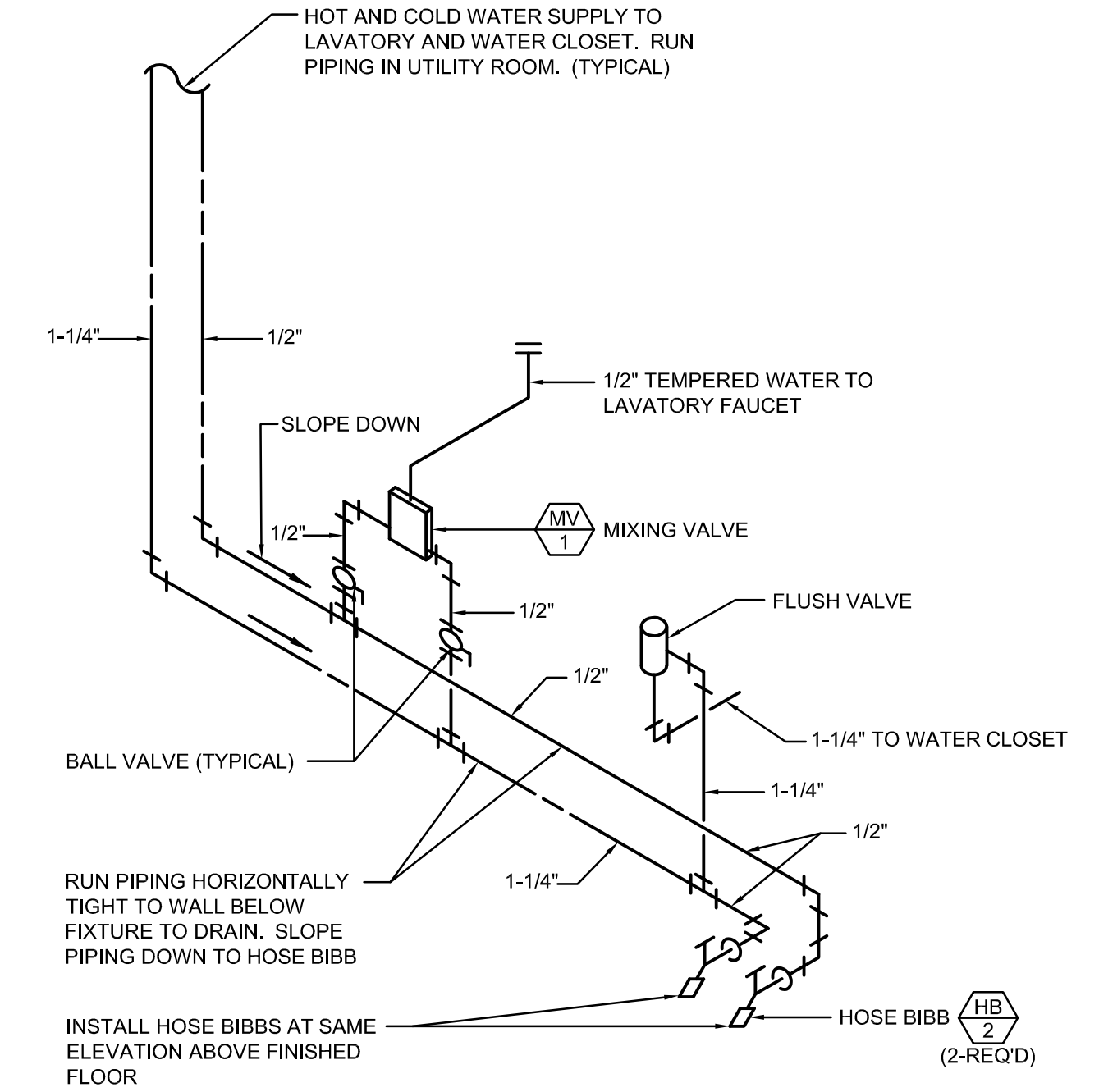
OLSEN & PETERSON
 consulting engineers, inc.
 14 East 2700 South, Salt Lake City, UT 84115
 Phone: (801) 486-6446 Fax: (801) 467-2511



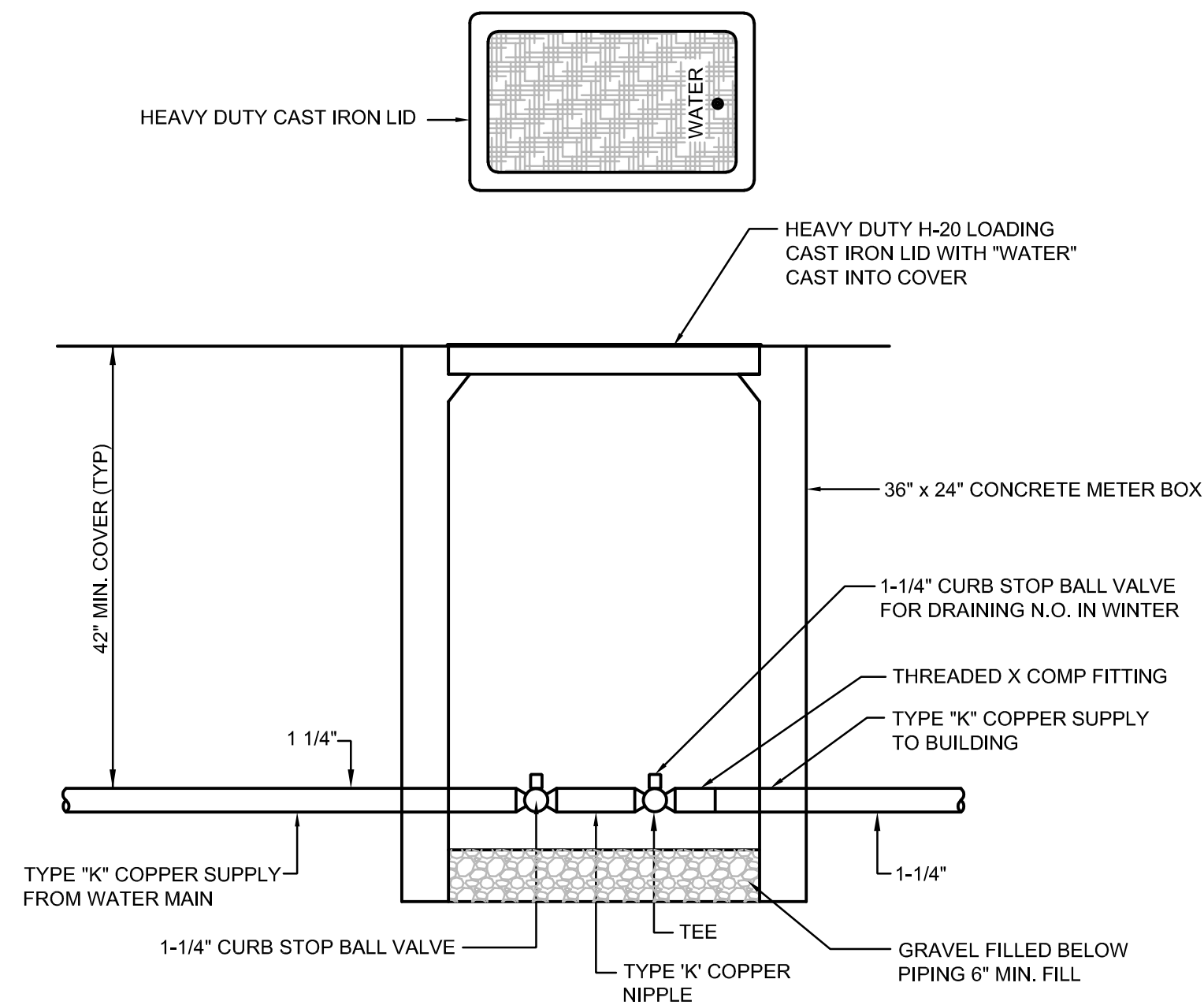
DOUBLE CLEANOUT TO GRADE DETAIL 5
NOT TO SCALE P501



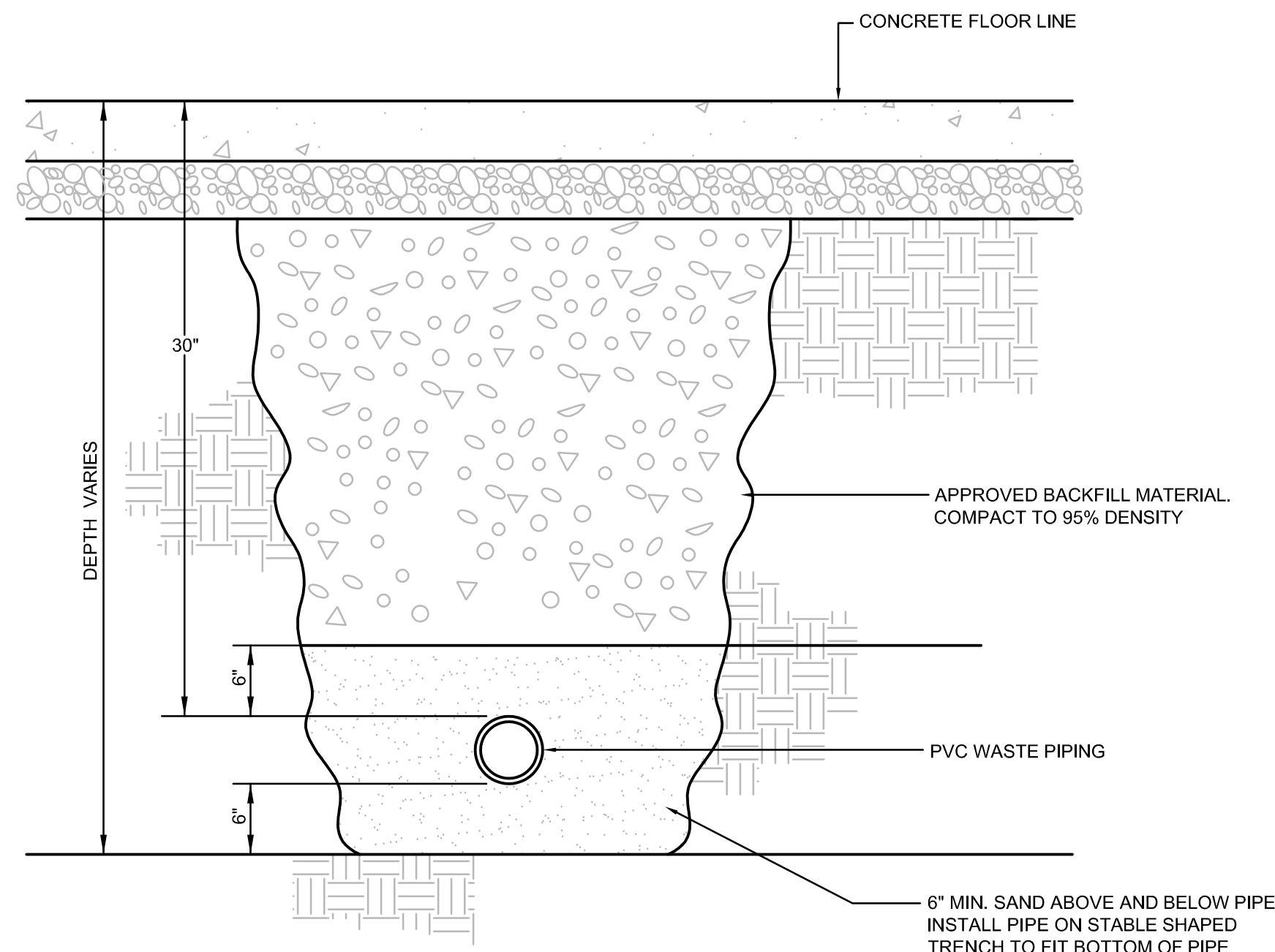
COMPRESSED AIR WATER BLOWOUT VALVE DETAIL 3
NOT TO SCALE P501



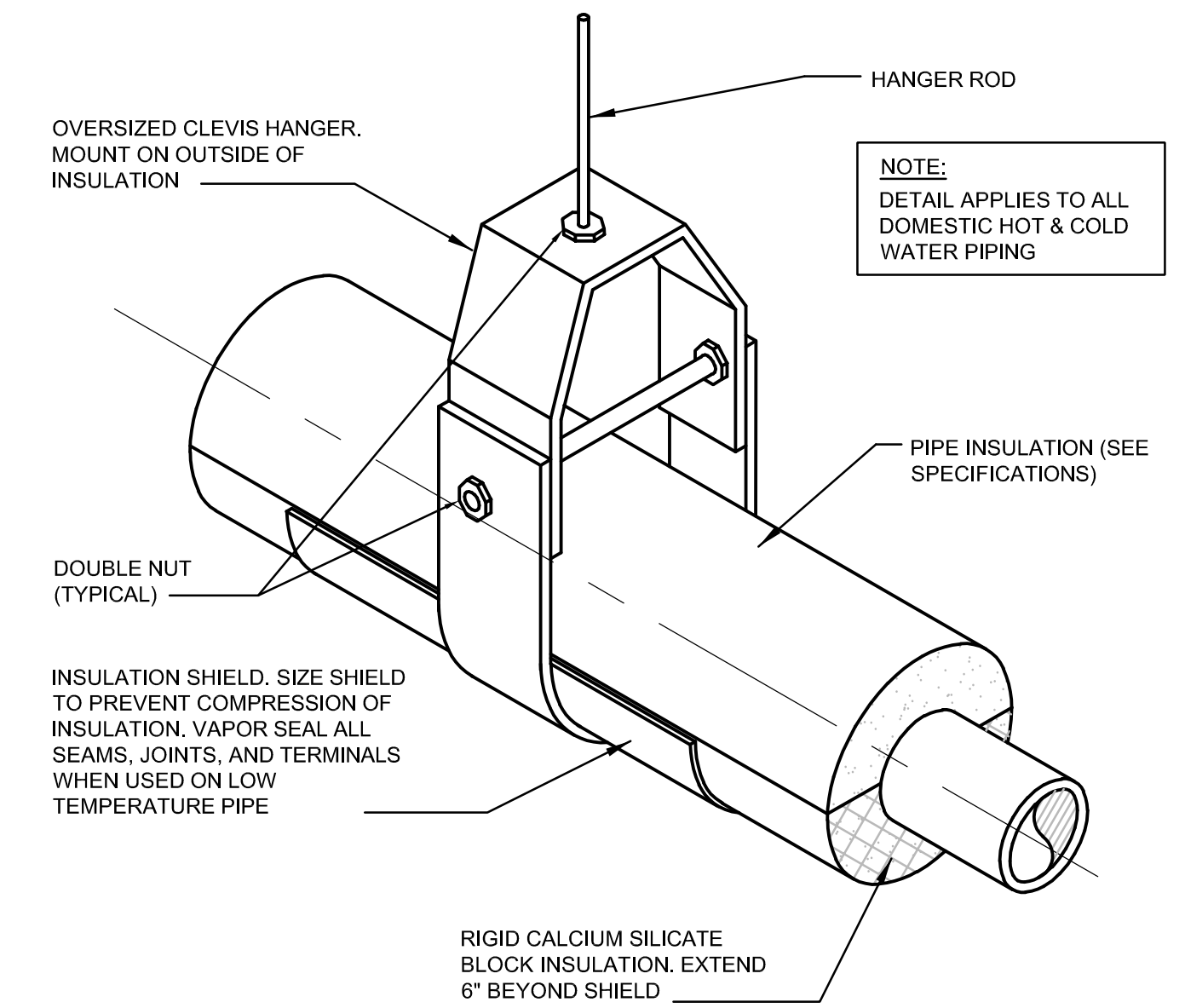
RESTROOM LAVATORY PIPING SCHEMATIC 1
NOT TO SCALE P501



BUILDING SHUT-OFF AND BLOWOUT DETAIL 6
NOT TO SCALE P501

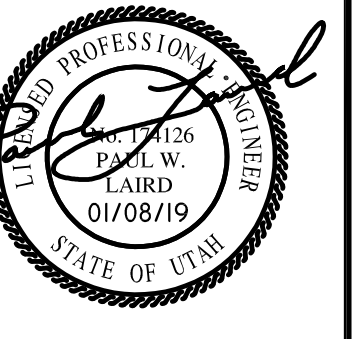


TYPICAL WASTE TRENCH DETAIL 4
NOT TO SCALE P501



PIPE SUPPORT DETAIL 2
NOT TO SCALE P501

| NO. | REVISION DESCRIPTION | DATE |
|-----|----------------------|------|
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| CONSTRUCTION | STAFF | PWL | PWL | 01/08/19 | 1/8/19 |
|--------------|-----------|-------------|--------------|----------|------------|
| SUBMITTAL | DRAWN BY: | CHECKED BY: | APPROVED BY: | RELEASE: | PLOT DATE: |

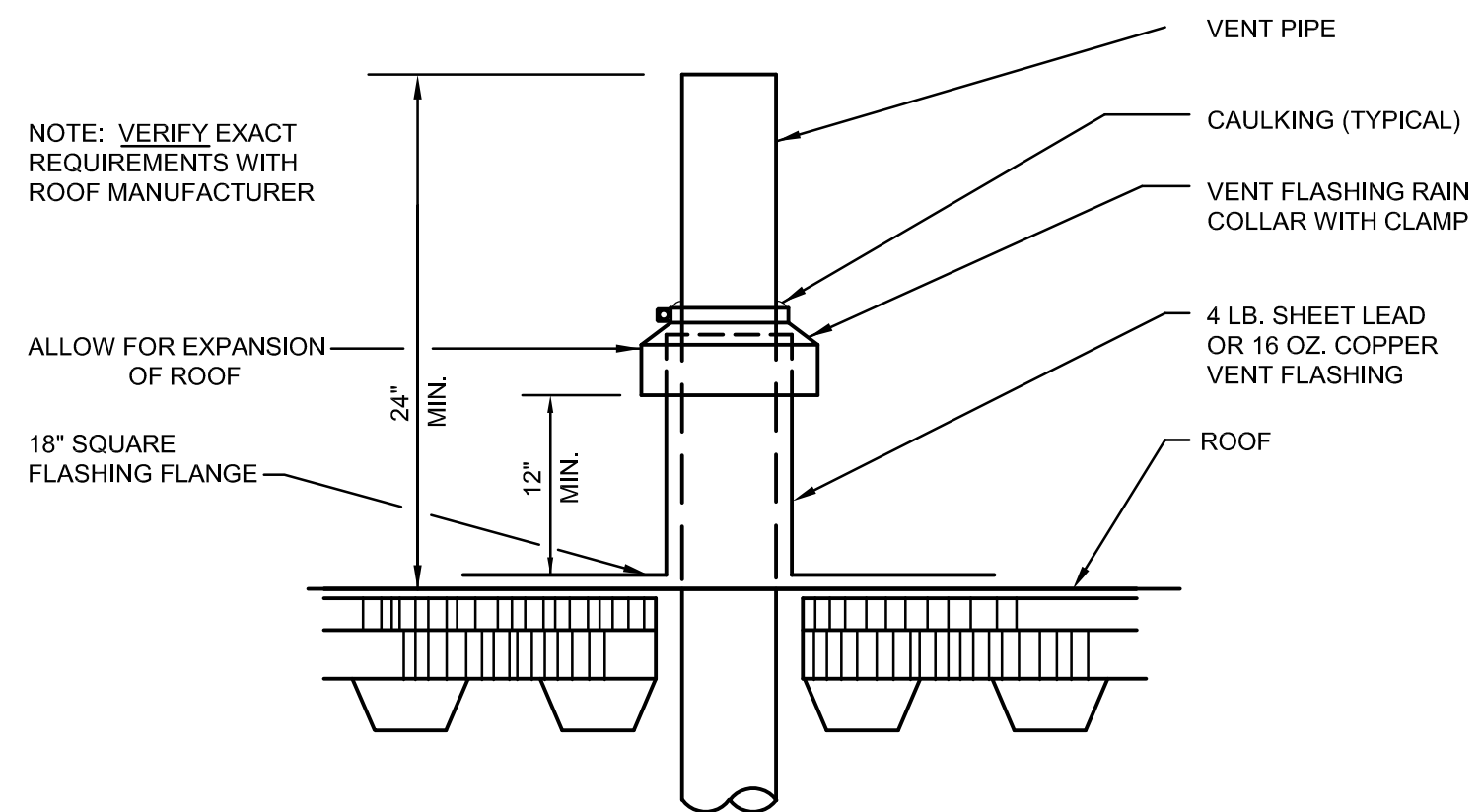
CALL BLUESTAKES @ 1-800-662-4111 AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. VERIFY SCALE. BAR IS ONE INCH ON ORIGINAL DRAWING.



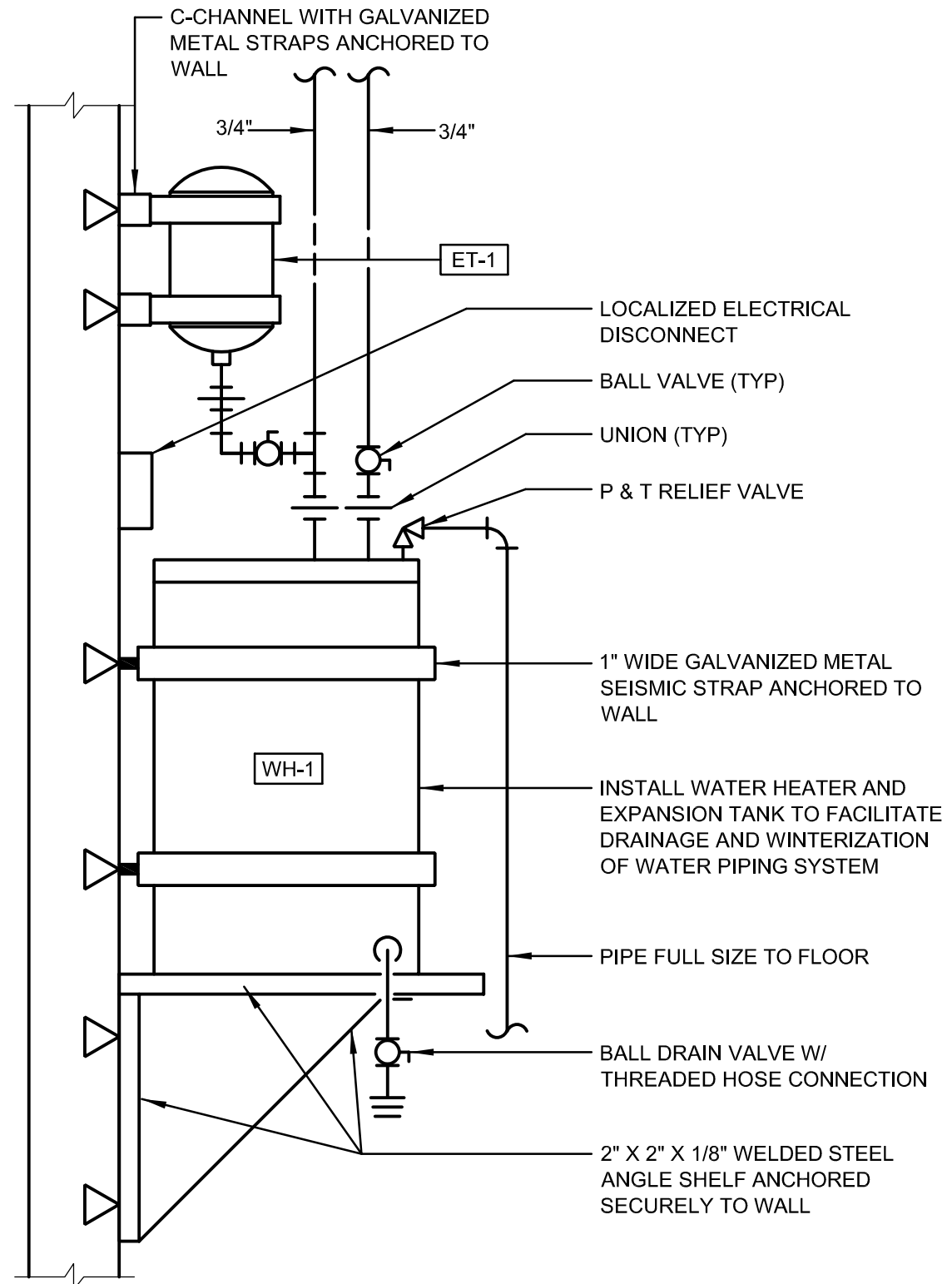
HERRIMAN CITY
ENGINEERING DEPARTMENT
CEMETERY RESTROOM BUILDING
6018 W. HERITAGE HILL DRIVE
PLUMBING DETAILS

P501

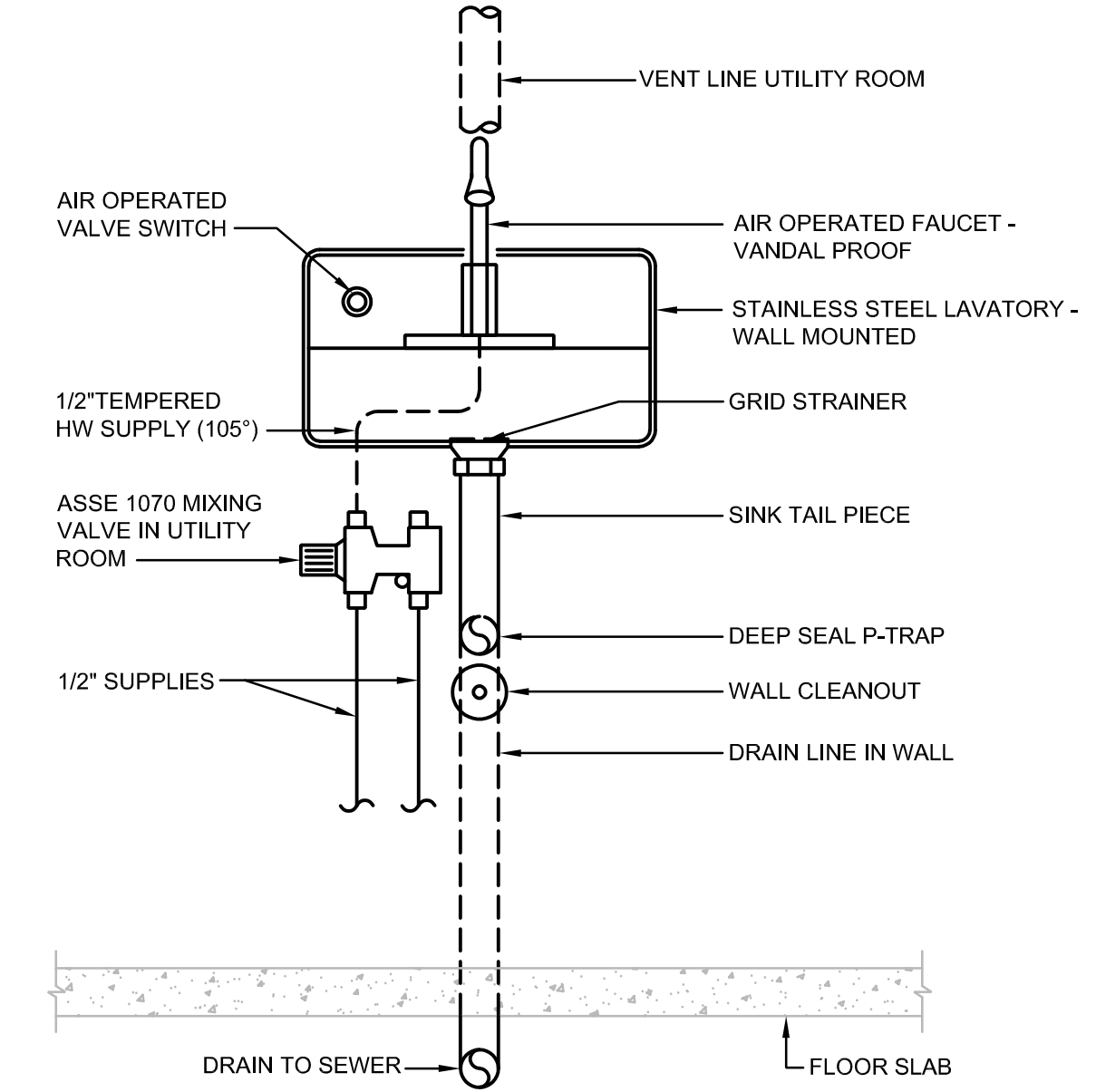
5/14/2018 5:42 PM P:\9004 -- HERRIMAN CEMETERY RR BLDG DRAWINGS\P501.DWG



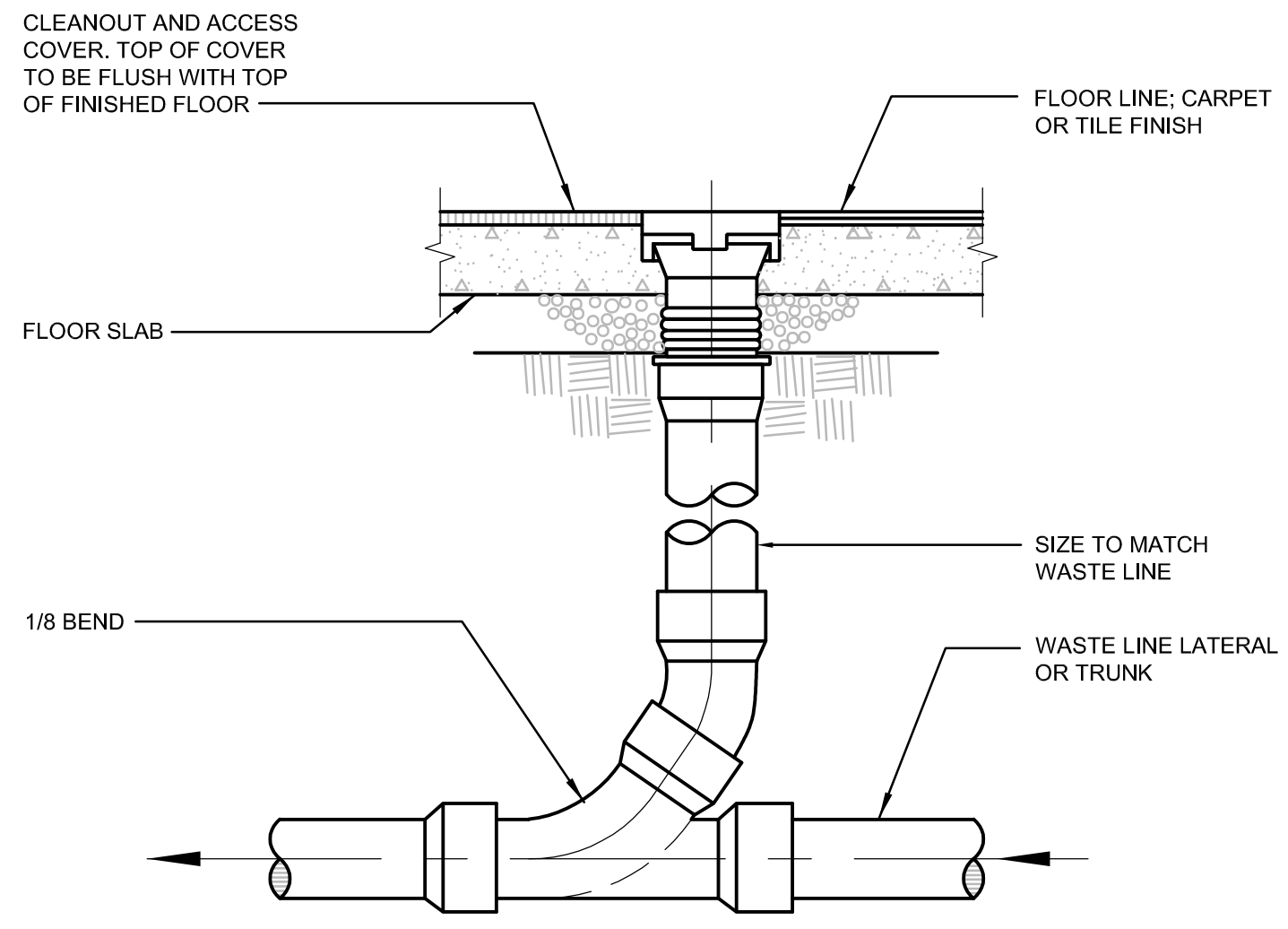
VENT THRU ROOF DETAIL 5
NOT TO SCALE P502



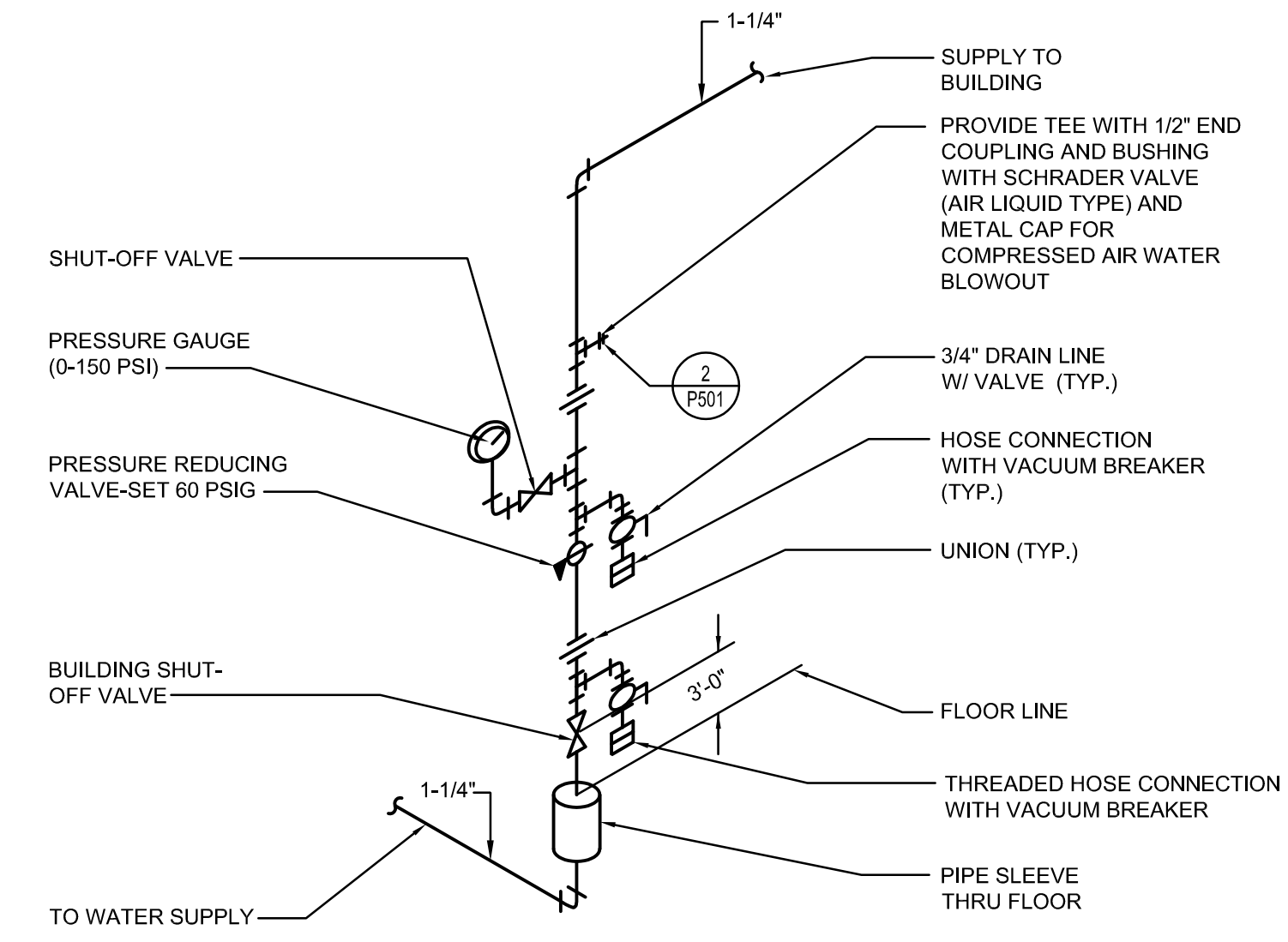
WATER HEATER DETAIL 3
NOT TO SCALE P502



LAVATORY INSTALLATION DETAIL 1
NOT TO SCALE P502



FLOOR CLEANOUT DETAIL 4
NOT TO SCALE P502



BUILDING WATER CONTROL VALVE 2
NOT TO SCALE P502

| NO. | REVISION DESCRIPTION | DATE |
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| CONSTRUCTION | STAFF | P502 | P502 | 01/08/19 | 1/8/19 |
|--------------|-------|------|------|----------|--------|
| | | | | | |

CALL BLUESTAKES
@ 1-800-662-4111 AT
LEAST 48 HOURS PRIOR
TO THE COMMENCEMENT
OF ANY CONSTRUCTION.
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING



HERRIMAN CITY
ENGINEERING DEPARTMENT
CEMETERY RESTROOM BUILDING
6018 W. HERITAGE HILL DRIVE
PLUMBING DETAILS

P502

5/14/2018 5:42 PM P:\19004 -- HERRIMAN CEMETERY RR BLDG\DRAWINGS\M101.DWG

| RADIANT HEATING PANEL | | | | | |
|-----------------------|------------------|-----------------|---------|-------------------------|---------------------|
| SYMBOL | TYPE | HTG. CAP. WATTS | SIZE | ELECTRICAL REQUIREMENTS | MAKE & MODEL |
| RP-1 | CEILING RECESSED | 750 | 24"x48" | 120 V / 1 PH / 60 HZ | QMARK CP751F (1)(2) |

NOTES:

- (1) RADIANT HEATING PANEL SHALL BE WHITE IN COLOR. PROVIDE PLASTER OR GYP BOARD CEILING MOUNTING FRAME. SEAL TIGHT FLEXIBLE CONDUIT AND CONNECTORS.
- (2) UL LISTED AND CSA CERTIFIED. 22 GA. GALVANIZED STEEL CONSTRUCTION WITH CRYSTALLINE SURFACE FINISH AND HIGH TEMPERATURE SILICONE PAINT.

| ELECTRIC UNIT HEATER SCHEDULE | | | | | |
|-------------------------------|------------|--------------------|-----|-------------------------------|----------------------|
| SYMBOL | TYPE | SIZE | CFM | ELECTRICAL | MAKE & MODEL |
| EH-1 | HORIZONTAL | 18"W x 22"H x 22"D | 830 | 10 KW, 1/15 HP MOTOR 208/1/60 | MODINE HER100 (1)(2) |

NOTES:

- (1) PROVIDE ELECTRICAL DISCONNECT AND LINE VOLTAGE WALL MOUNTED THERMOSTAT. PROVIDE MOUNTING KIT, AIR DEFLECTORS AND ALL SAFETY CONTROLS
- (2) HEAVY DUTY STEEL CASING WITH PAINTED POWDER COAT FINISH.

| REGISTER & GRILLE SCHEDULE | | | | |
|----------------------------|-----------|----------|-------------|------------------|
| SYMBOL | SIZE | LOCATION | TYPE | MAKE & MODEL |
| EG-1 CFM | 8" x 8" | CEILING | EXHAUST AIR | PRICE 535 (1)(2) |
| SR-1 CFM | 12" x 12" | CEILING | MAKE-UP AIR | PRICE 535 (1)(2) |

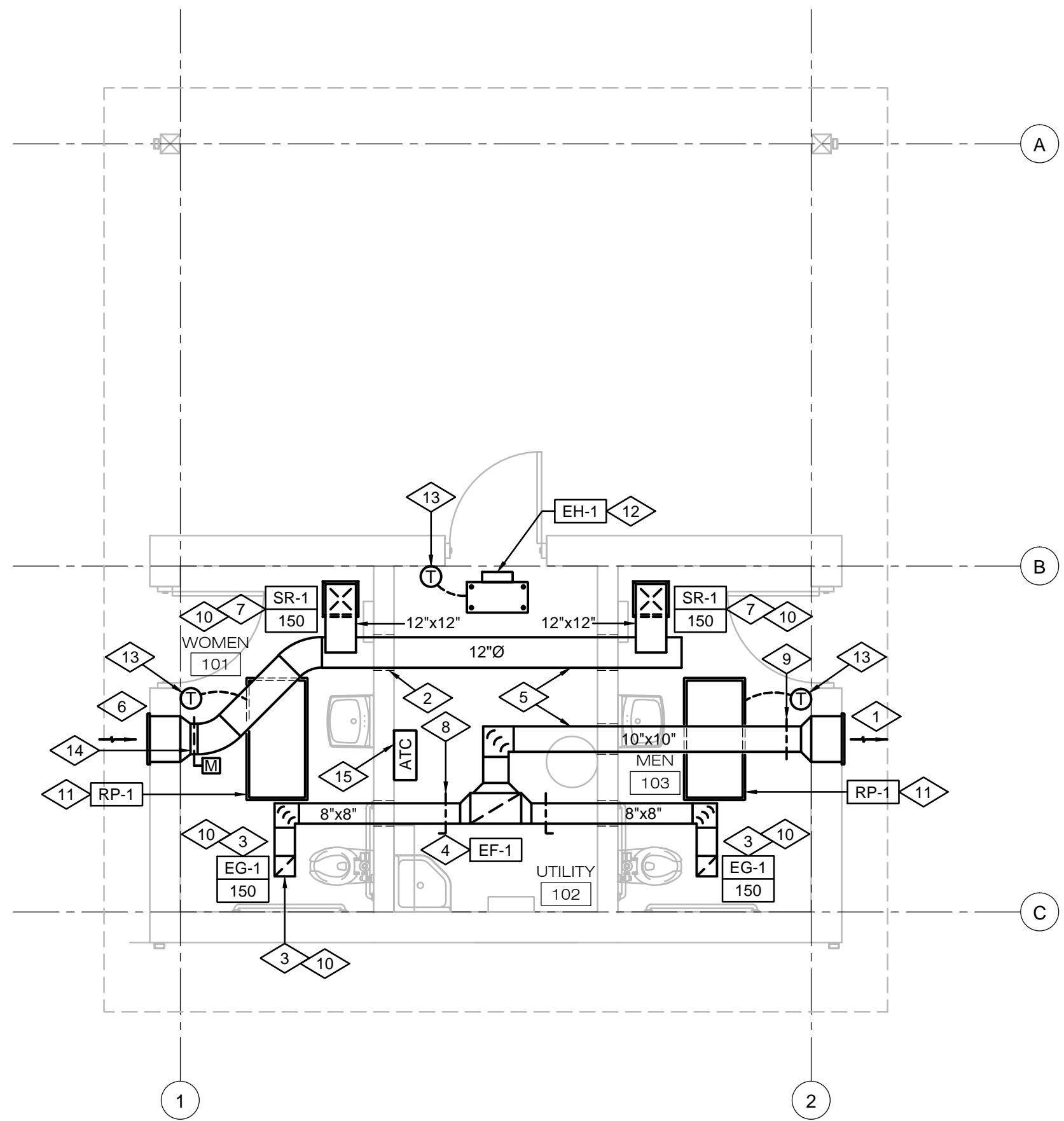
NOTES:

- (1) FURNISH WITH BRIGHT WHITE FINISH.
- (2) PROVIDE FRAME FOR MOUNTING IN GYP BOARD OR LAY-IN CEILING.

| EXHAUST FAN SCHEDULE | | | | | | | | | |
|----------------------|-----------|---------|-------|-------|--------|--------------------|--------|--------------|-------|
| SYMBOL | SERVES | TYPE | C.F.M | S.P. | R.P.M. | MOTOR | DRIVE | MAKE & MODEL | NOTES |
| EF-1 | RESTROOMS | IN-LINE | 300 | 0.375 | 1600 | 100 WATTS 120/1/60 | DIRECT | COOK GN-542 | (1) |

NOTES:

- (1) FAN TO BE COMPLETE WITH SPRING VIBRATION ISOLATION KIT, BACKDRAFT DAMPER, INTEGRAL WIRED FAN SPEED CONTROLLER AND DIRECT DRIVE MOTOR.



MECHANICAL FLOOR PLAN



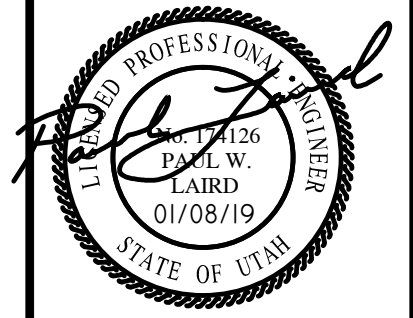
SCALE: 1/4"=1'-0"

1

REFERENCE NOTES

- 1 CONNECT EXHAUST DUCTWORK TO EXTERIOR LOUVER IN THIS LOCATION. EXTERIOR LOUVER FURNISHED BY OTHERS. TRANSITION DUCTWORK TO MATCH LOUVER DIAMETER. SEAL AIR TIGHT AROUND DUCT-WALL PENETRATION.
- 2 CORE DRILL, FRAME OR SLEEVE DUCT AT WALL PENETRATION. SEAL AIR TIGHT AROUND DUCT. COORDINATE REQD WALL OPENINGS WITH GENERAL CONTRACTOR. (TYP)
- 3 INSTALL CEILING EXHAUST GRILLE IN THIS LOCATION. CONNECT EXHAUST GRILLE TO EXHAUST DUCT. TRANSITION EXHAUST DUCT AS NEEDED TO MATCH GRILLE SIZE. BALANCE EXHAUST GRILLE TO CFM INDICATED.
- 4 INSTALL INLINE EXHAUST FAN IN THIS LOCATION. SUPPORT EXHAUST FAN FROM OVERHEAD STRUCTURE, PROVIDE VIBRATION ISOLATION KIT. MAKE ALL REQUIRED INLET AND OUTLET DUCT CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS. SEE INSTALLATION DETAIL 2/M501.
- 5 RUN DUCTWORK HIGH ABOVE CEILINGS AND CLOSE TO STRUCTURE. COORDINATE LOCATION OF DUCTWORK WITH STRUCTURE, PLUMBING AND ELECTRICAL TRADES.
- 6 CONNECT MAKE-UP AIR DUCTWORK TO EXTERIOR LOUVER IN THIS LOCATION. EXTERIOR LOUVER FURNISHED BY OTHERS. TRANSITION DUCTWORK TO MATCH LOUVER DIAMETER. SEAL AIR TIGHT AROUND DUCT-WALL PENETRATION.
- 7 INSTALL CEILING MAKE UP AIR REGISTER IN THIS LOCATION. CONNECT REGISTER TO MAKE-UP AIR DUCT. TRANSITION MAKE-UP AIR DUCT AS NEEDED TO MATCH REGISTER SIZE. BALANCE REGISTER TO CFM INDICATED.
- 8 VOLUME DAMPER (TYP)
- 9 INSTALL GRAVITY BACKDRAFT DAMPER ON EXHAUST DUCT NEAR WALL PENETRATION.
- 10 INSTALL REGISTERS AND GRILLES AS INDICATED. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION. (TYP)
- 11 INSTALL ELECTRIC RADIANT CEILING PANEL IN THIS LOCATION.
- 12 INSTALL ELECTRIC UNIT HEATER IN THIS LOCATION. MOUNT HIGH CLOSE TO CEILING. SUPPORT HEATER FROM OVERHEAD STRUCTURE. SEE DETAIL 5/M501.
- 13 INSTALL WALL MOUNTED CONTROLLING THERMOSTAT IN THIS LOCATION. PROVIDE VANDAL PROOF STAINLESS STEEL LOCKING COVER TO PROTECT THERMOSTAT. MOUNT AT 54" A.F.F.
- 14 INSTALL MOTORIZED DAMPER ON OUTSIDE AIR MAKE-UP UNIT. INTERLOCK MOTORIZED DAMPER OPERATION WITH EXHAUST FAN EF-1. DAMPER SHALL OPEN WHENEVER EF-1 IS ENERGIZED.
- 15 PROVIDE ATC CONTROL PANEL FOR TEMPERATURE CONTROLS SERVING RESTROOMS AND UTILITY SPACE. PROVIDE TRANSFORMERS, RELAYS, CONDUIT AND CONDUCTORS. PROVIDE 120 V / 1 PH POWER.

| NO. | REVISION DESCRIPTION | DATE |
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| CONSTRUCTION STAFF | DATE |
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CALL BLUESTAKES @ 1-800-662-4111 AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.

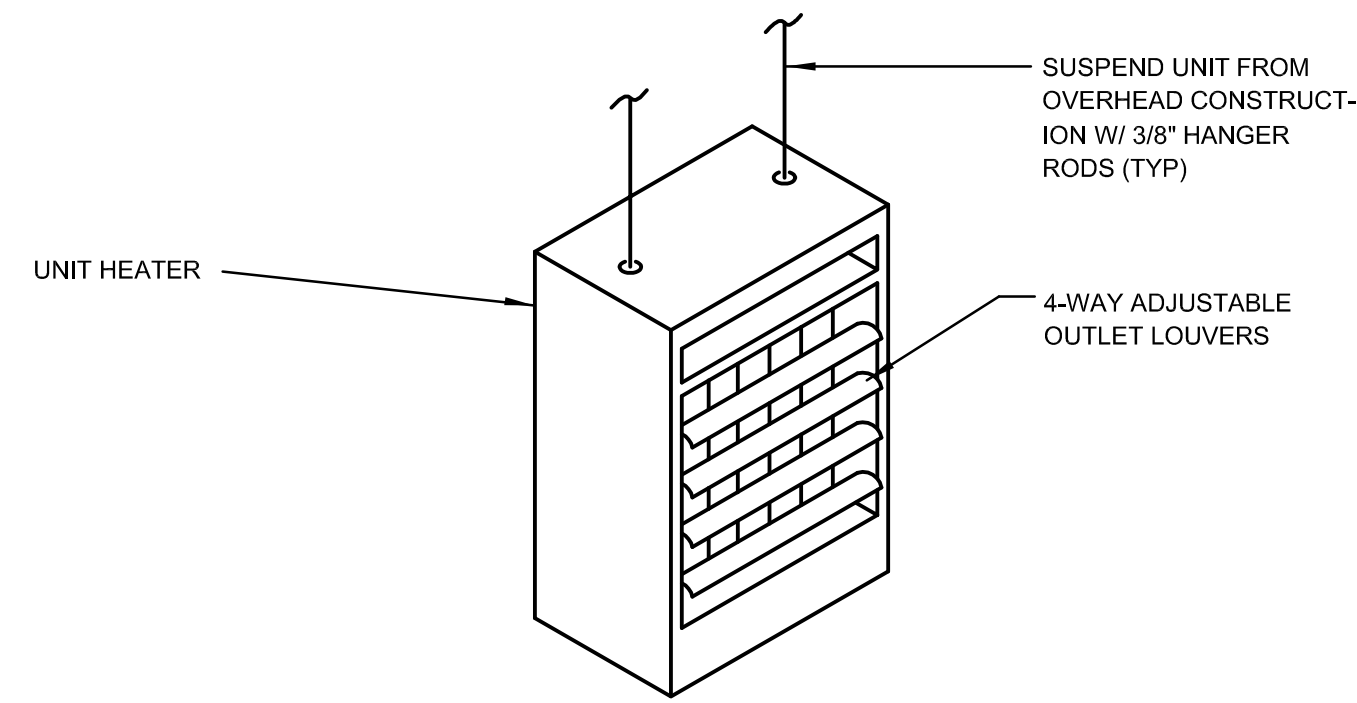
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

1/9/19

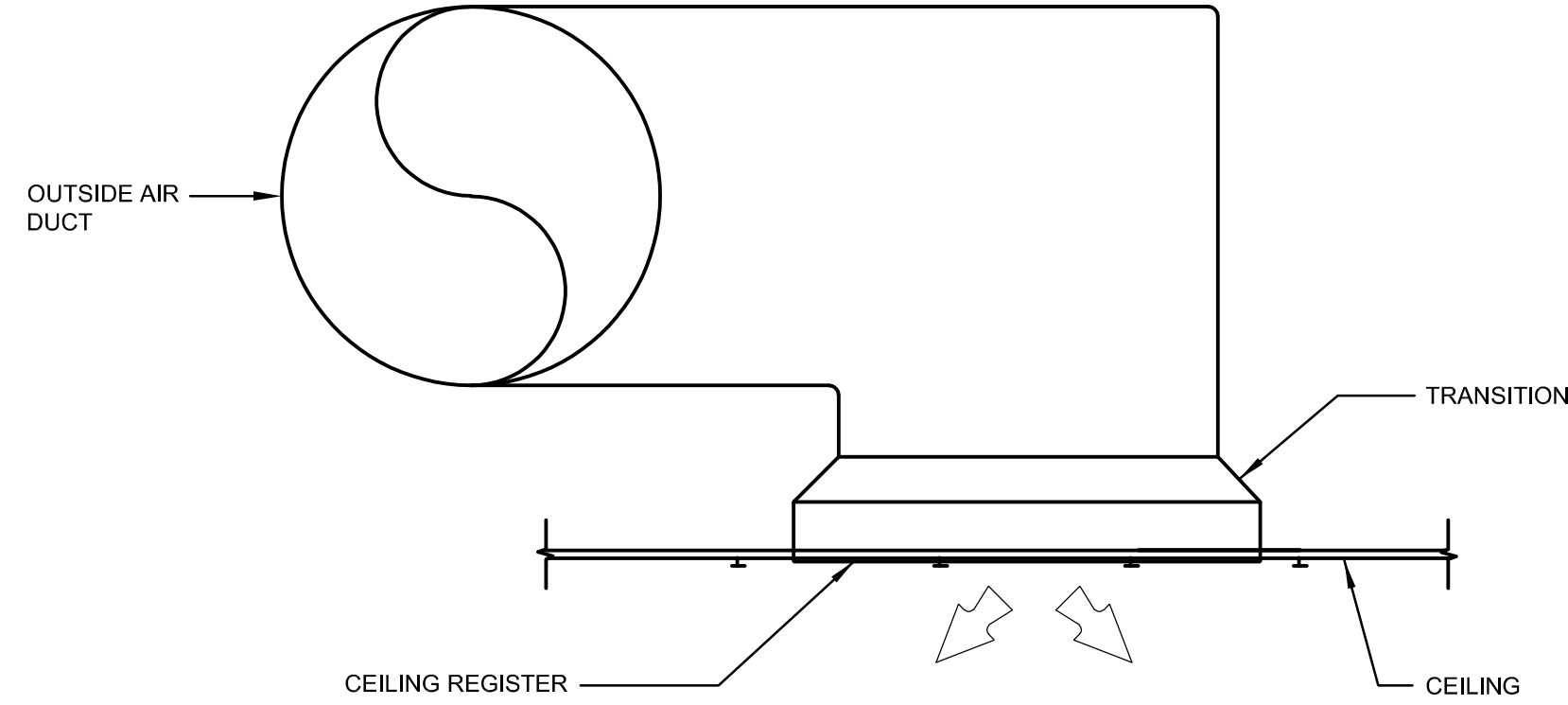


HERRIMAN CITY
ENGINEERING DEPARTMENT
 CEMETERY RESTROOM BUILDING
 6018 W. HERITAGE HILL DRIVE
 MECHANICAL FLOOR PLAN

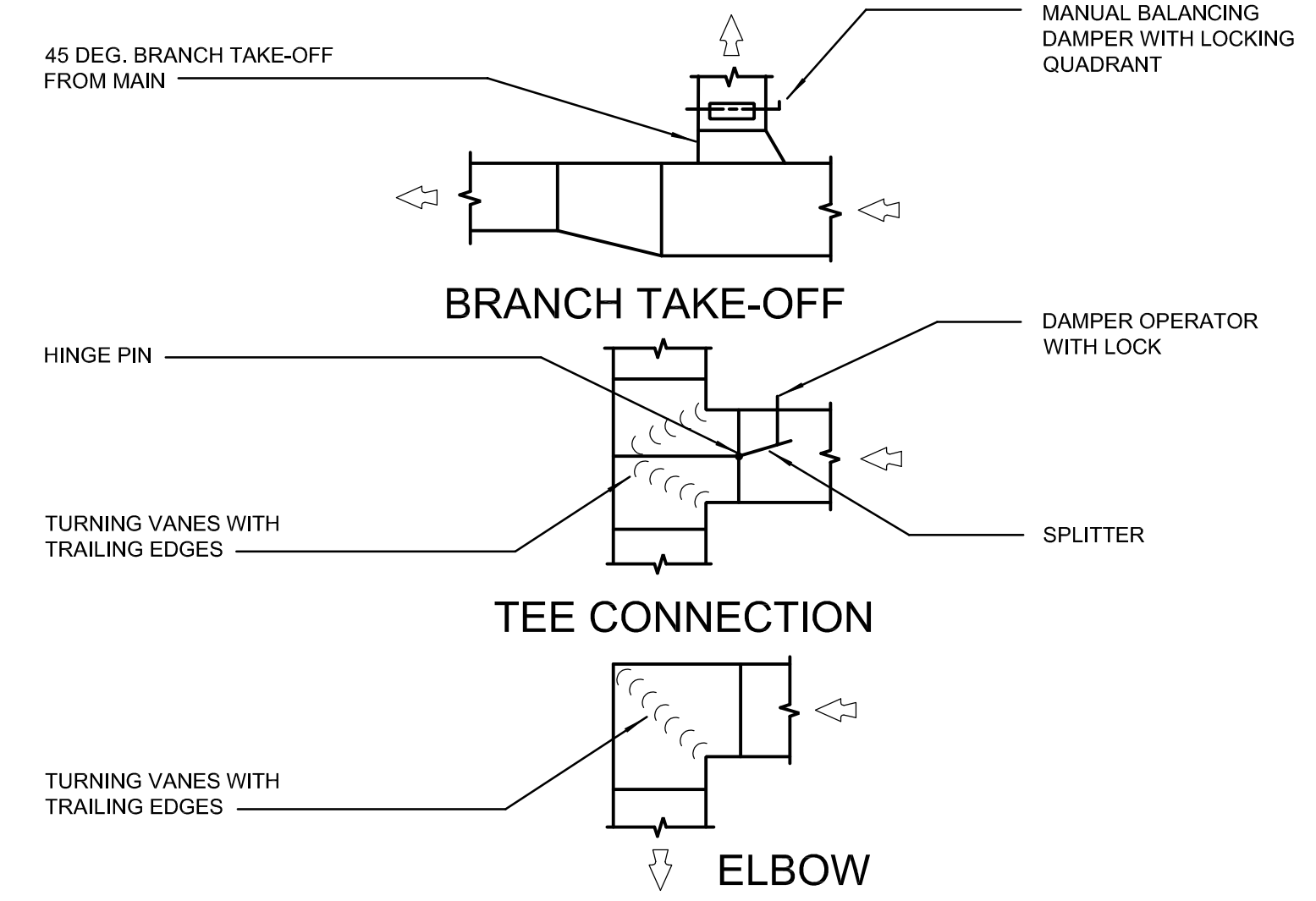
M101



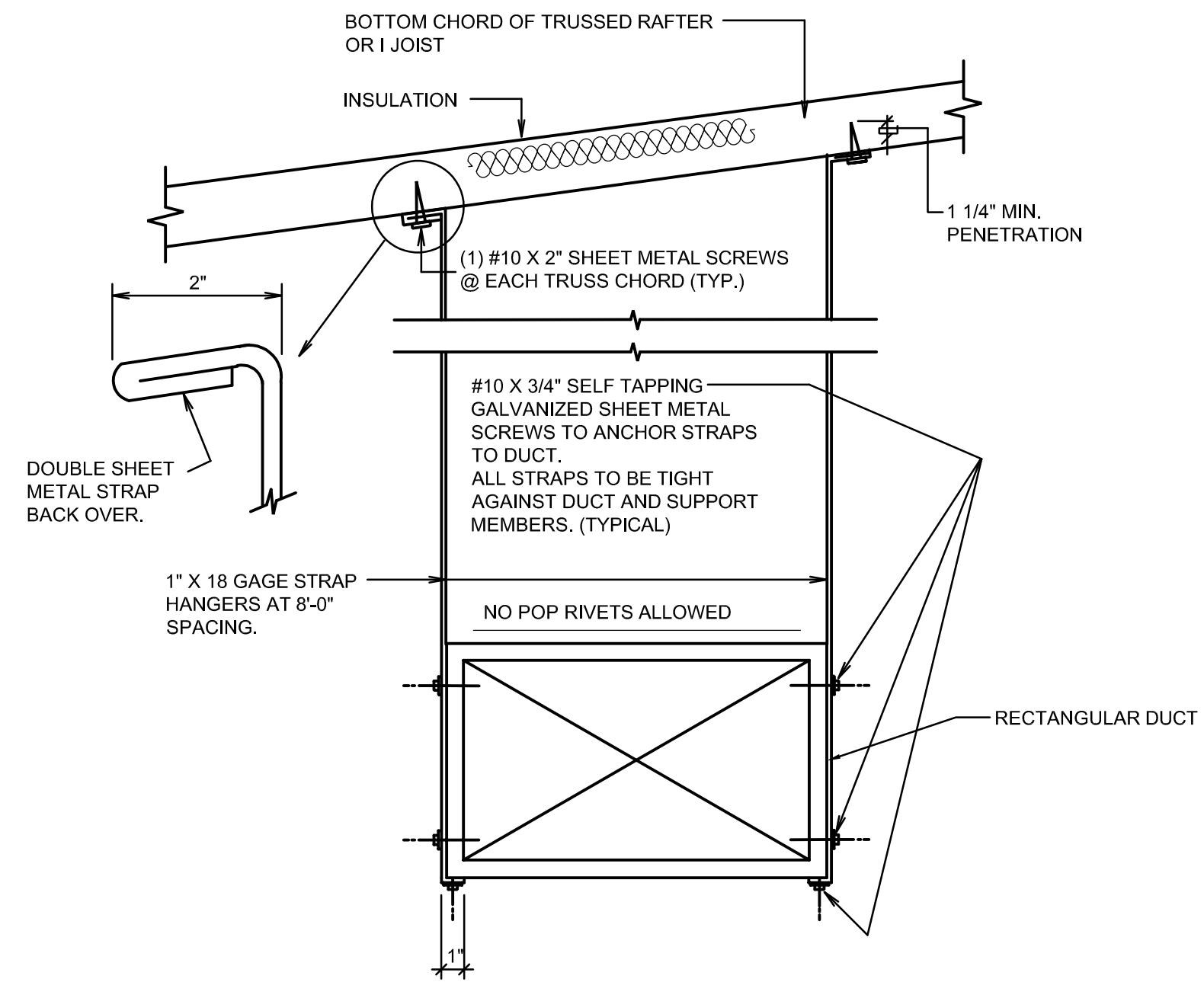
ELECTRIC UNIT HEATER DETAIL 5
NOT TO SCALE M501



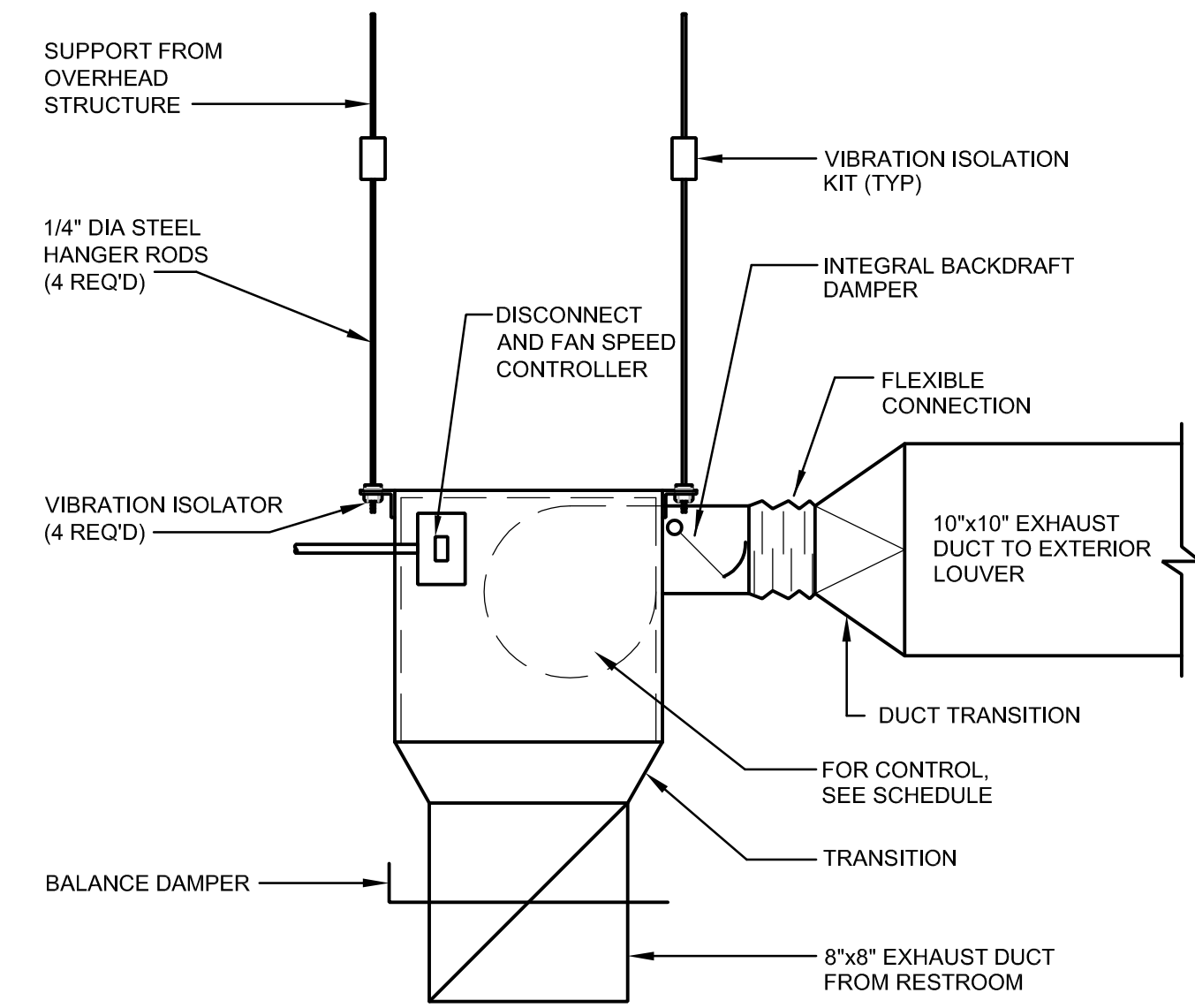
CEILING REGISTER DETAIL 3
NOT TO SCALE M501



LOW PRESSURE DUCT DETAILS 1
NOT TO SCALE M501



DUCT STRAP HANGER DETAIL 4
SCALE: NONE M501



CEILING EXHAUST FAN DETAIL 2
NOT TO SCALE M501

| NO. | REVISION DESCRIPTION | DATE |
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| CONSTRUCTION | STAFF | PWL | PWL | 01/08/19 | 1/8/19 |
|--------------|-----------|-------------|--------------|----------|------------|
| SUBMITTAL | DRAWN BY: | CHECKED BY: | APPROVED BY: | RELEASE: | PLOT DATE: |

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HERRIMAN CITY
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6018 W. HERITAGE HILL DRIVE
MECHANICAL DETAILS

M501

P:\19004 -- HERRIMAN CEMETERY RR BLDG\DRAWINGS\M501.DWG 5/14/2018 5:42 PM

GENERAL NOTES

1. CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
2. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
3. CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC.) OF EQUIPMENT FURNISHED UNDER DIVISION 23 (15) WITH APPROVED MECHANICAL SHOP DRAWINGS BEFORE BEGINNING ROUGH IN.
4. SEE SECTION 265100 (16510) OF THE SPECIFICATION REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEILING CONTRACTORS.
5. SEE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC. WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.
6. SEE SPECIFICATION FOR ENERGY SAVING LAMP AND BALLAST REQUIREMENTS.
7. FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.
8. THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
9. ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.
10. ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
11. CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 115' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH CONDUCTORS PER TABLE BELOW.

| MAXIMUM LENGTH | BRANCH CIRCUIT VOLTAGE | |
|-----------------------|------------------------|--------------|
| CONDUCTOR LENGTH (FT) | 120 VOLT | 277 VOLT |
| <70 | MIN. #12 AWG | MIN. #12 AWG |
| 70 - 115 | MIN. #10 AWG | MIN. #12 AWG |
| 115 - 170 | MIN. #8 AWG | MIN. #10 AWG |
| 170 - 270 | MIN. #6 AWG | MIN. #8 AWG |
| 271 - 380 | NOTE B | MIN. #8 AWG |
| >380 | NOTE B | NOTE B |

- A. THESE ARE BASED ON MAXIMUM LENGTH OF CIRCUIT.
- B. PERFORM VOLTAGE DROP CALCULATIONS AND PROVIDE CONDUCTOR SIZE TO KEEP BRANCH CIRCUIT VOLTAGE DROP LESS THAN 3% WITH A 15 AMP LOAD.
- C. CONTRACTOR SHALL ENSURE THAT THE INSTALLATION OF EACH BRANCH CIRCUIT STAYS WITHIN 3% VOLTAGE DROP FOR A 15 AMP LOAD. IF NECESSARY, CONTRACTOR SHALL INCREASE WIRE AND CONDUIT SIZE TO MEET THE STANDARD AT NO ADDITIONAL COST TO OWNER.

ELECTRICAL SYMBOL SCHEDULE

1. SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE.
2. HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISH FLOOR.
3. REFER TO DRAWINGS FOR DIRECTIONAL ARROWS.
4. SUBSCRIPT KEYS SWITCH TO FIXTURES CONTROLLED.
5. NEMA TYPE 'ND' NON-FUSED UNLESS NOTED 'F' (FUSED). USE 'HD' 480 V.
6. HEIGHT MEASURED TO TOP OF THE BOX FROM FINISHED FLOOR.
7. PROVIDE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED.
8. DOUBLE ARROWS DENOTE A DOUBLE FACE UNIT.
9. COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT.
10. SUBSCRIPT DENOTES NEMA CONFIGURATION.
11. HEIGHT MEASURED TO BOTTOM OF THE BOX FROM FINISH FLOOR.
12. COORDINATE WITH DOOR HARDWARE SUPPLIER.

* TYPICAL SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED IN THIS SET OF DRAWINGS.

| STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS | | | |
|--|---|----------------------|---------------------------|
| SYMBOL | DESCRIPTION | MOUNTING HEIGHT | NOTES |
| | ONE CIRCUIT, HOME RUN TO PANEL | | |
| | TWO CIRCUIT, HOME RUN TO PANEL | | |
| | THREE CIRCUIT, HOME RUN TO PANEL | | |
| | CONDUIT RUN CONCEALED IN WALL OR CEILING | | |
| | CONDUIT RUN CONCEALED IN FLOOR OR GROUND | | |
| | CONDUIT UP | | |
| | CONDUIT DOWN | | |
| | CONDUIT STUB LOCATION | CAP CONDUIT | |
| | CONDUIT/CIRCUIT CONTINUATION | | |
| | CABLE TRAY | AS NOTED | |
| | CEILING LIGHT FIXTURE | CEILING | 1. |
| | WALL LIGHT FIXTURE | AS NOTED | 1. |
| | RECESSED DOWNLIGHT FIXTURE | CEILING | 1. |
| | RECESSED WALL-WASH FIXTURE | CEILING | 1. |
| | LIGHT FIXTURE | AS NOTED | 1 |
| | EGRESS LIGHT FIXTURE | AS NOTED | UNSWITCHED |
| | AREA LIGHT POLE AND FIXTURE | CONCRETE BASE | SEE DIAGRAM |
| | FLOOD OR TRACK FIXTURE | AS NOTED | |
| | CEILING/WALL MOUNTED EXIT LIGHT | CEILING/ AS NOTED | 1. 3. 8. |
| | SINGLE POLE SWITCH | +4'-0" | 4. 6. |
| | THREE-WAY SWITCH | +4'-0" | 6. |
| | FOUR-WAY SWITCH | +4'-0" | 6. |
| | KEY OPERATED SWITCH | +4'-0" | 6. |
| | TIMER SWITCH | +4'-0" | 6. |
| | LOW VOLTAGE WALL STATION (SUBSCRIPT INDICATES CONFIGURATION & CONTROL SEQUENCE) SEE DIAGRAM | +4'-0" | 6. |
| | DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR (PROVIDE WITH ALL ROOM CONTROLLERS) | CEILING | SEE DIAGRAM, SPEC. |
| | DUAL TECHNOLOGY WALL MOUNTED OCCUPANCY SENSOR (SUBSCRIPT D=DIMMING AND DAY-LIGHT CONTROL) | +4'-0" | SEE DIAGRAM, SPEC. |
| | POWER PACK | ABOVE CEILING | SEE DIAGRAM, SPEC. |
| | DIGITAL ROOM CONTROLLER (SUBSCRIPT INDICATES NUMBER OF RELAYS, #E INDICATES EM ENABLED RO) | ABOVE CEILING | SEE DIAGRAM, SPEC. |
| | EMERGENCY LIGHTING CONTROL UNIT | ABOVE CEILING | SEE DIAGRAM, SPEC. |
| | RECEPTACLE SWITCH PACK | ABOVE CEILING | SPEC. |
| | AUTOMATIC RELAY PACK | ABOVE CEILING | SEE DIAGRAM, SPEC. |
| | LOW VOLTAGE TRANSFORMER | | |
| | PHOTO-ELECTRIC CONTROL | AS NOTED | TORK 2000A |
| | DIGITAL DAYLIGHT SENSOR | CEILING | SEE DIAGRAM SPECIFICATION |
| | TIME CLOCK | +5'-0" | 2. |
| | DUPLEX RECEPTACLE | +16" OR AS NOTED | 9. 11. |
| | DUPLEX RECEPTACLE WITH USB OUTLET | +16" OR AS NOTED | 9. 11. |
| | DUPLEX RECEPTACLE WITH CONTROL | +16" OR AS NOTED | 9. 11. |
| | DUPLEX RECEPTACLE | | 9. |
| | ELECTRIC WATER COOLER RECEPTACLE | | SEE DIAGRAM |
| | WEATHERPROOF RECEPTACLE | +24" OR AS NOTED | 2. 9. |
| | GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE | +16" OR AS NOTED | 9. 11. |
| | FOURPLEX RECEPTACLE | +16" OR AS NOTED | 9. 11. |
| | GROUND FAULT INTERRUPTER FOURPLEX RECEPTACLE | +16" OR AS NOTED | 9. 11. |
| | SPECIAL PURPOSE OUTLET | +16" OR AS NOTED | 10. WITH CAP. 11. |
| | DATA OUTLET W/(1) CABLE (SEE SPECIFICATION) | +16" OR AS NOTED | 9. 11. |
| | DATA OUTLET W/(2) CABLES (SEE SPECIFICATION) | +16" OR AS NOTED | 9. 11. |
| | DATA OUTLET W/(3) CABLES (SEE SPECIFICATION) | +16" OR AS NOTED | 9. 11. |
| | DATA OUTLET W/MORE THAN (3) CABLES (SEE SPEC) | +16" OR AS NOTED | 9. 11. |
| | WIRELESS ACCESS POINT, W/(2) CABLES (SEE SPEC) | CEILING | |
| | JUNCTION BOX ("F" IN FLOOR) | AS NOTED | |
| | MOTOR OUTLET | TO SUIT EQUIP. | |
| | PUSHBUTTON | +4'-0" | 6. |
| | NON-FUSED DISCONNECT SWITCH | +5'-0" | 5. |
| | FUSED DISCONNECT SWITCH | +5'-0" | 5. |
| | MANUAL STARTER THERMAL OVERLOAD SWITCH WITH PILOT LIGHT | +4'-0" | 6. |
| | MAGNETIC STARTER | +5'-0" | 7. |
| | MAGNETIC STARTER / DISCONNECT COMBINATION | +5'-0" | |
| | VARIABLE FREQUENCY DRIVE | +6'-6" | |
| | PANEL BOARD | TOP AT +6'-0" | |
| | MAIN DISTRIBUTION PANEL | | |
| | GROUND BUS BAR | | |
| | CHIME | +7'-6" | |
| | FIRE ALARM MANUAL STATION | +4'-0" | 6. |
| | FIRE ALARM SIGNAL HORN/STROBE | +8'-0" | 6. |
| | FIRE ALARM SIGNAL SPEAKER/STROBE | +8'-0" | 6. |
| | FIRE ALARM STROBE | +8'-0" | 6. |
| | FIRE ALARM SPEAKER ONLY | +8'-0" | 6. |
| | FIRE ALARM SIGNAL STROBE WITH BLUE COLORED LENS (CO VISUAL ALARM) | +8'-0" / CEILING | MOUNT AS PER. MAN |
| | SMOKE DETECTOR | CEILING | |
| | CARBON MONOXIDE DETECTOR | CEILING | |
| | HEAT DETECTOR | CEILING | |
| | DUCT SMOKE DETECTOR | | MTD. IN DUCT |
| | FIRE/SMOKE DAMPER | | |
| | DOOR HOLDER | AS NOTED | |
| | FIRE ALARM RELAY OR SECURITY RELAY | | |
| | FIRE ALARM CONTROL MODULE | | |
| | FIRE ALARM MONITOR MODULE | | |
| | DURESS PUSHBUTTON | +4'-0" | 6. |
| | SECURITY SYSTEM DOOR SWITCH | DOOR JAMB | |
| | SECURITY SYSTEM OVERHEAD DOOR SWITCH | CEILING | MOUNT AS PER. MAN |
| | MAGNETIC SHEAR LOCK | | |
| | SECURITY SYSTEM KEYED ACCESS SWITCH | +4'-0" | 6. |
| | SECURITY SYSTEM KEYED PAD | +4'-0" | 6. |
| | INFRARED SENSOR | AS NOTED | |
| | SECURITY MOTION DETECTOR | | MOUNT AS PER. MAN |
| | SECURITY SYSTEM POP-IT | | MOUNT AS PER. MAN |
| | GLASS BREAK DETECTOR | CEILING | |
| | ELECTRIC DOOR STRIKE | | 12. |
| | ELECTRIC DOOR LOCK | | 12. |
| | ACCESS CONTROL SYSTEM, REQUEST TO EXIT | | |
| | ACCESS CONTROL CARD READER | +4'-0" | 6. |
| | ACCESS CONTROL BIOMETRIC READER | +4'-0" | 6. |
| | CAMERA - SEE SCHEDULE | AS NOTED | SEE DIAGRAM, SPEC. |
| | DOOR POSITION INDICATING SWITCH | | |
| | LIGHT FIXTURE (LETTER DESIGNATES TYPE) | | |
| | EQUIPMENT NUMBER | | |
| | ARCHITECTURAL ROOM NUMBER | | |
| | DEVICE/EQUIPMENT (TEXT DESIGNATES TYPE) SEE SCHEDULE | | |

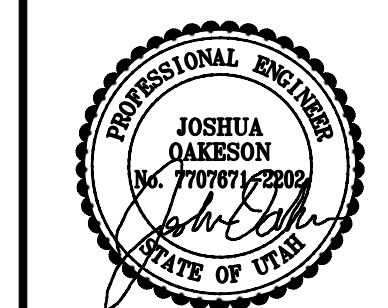
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- E501 ELECTRICAL DIAGRAMS

BNA
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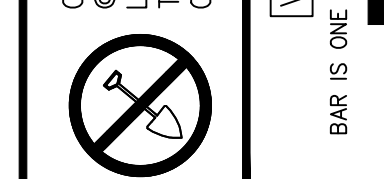
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| CONSTRUCTION | BNA | RLW | RLW | 01/21/19 | --- |
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HERRIMAN CITY
ENGINEERING DEPARTMENT
CEMETERY RESTROOM BUILDING
6018 W. HERITAGE HILL DRIVE
SYMBOLS, SCHEDULES AND NOTES

E001

| LIGHT FIXTURE ABBREVIATION SCHEDULE | | | |
|---|---|------|---|
| NOTE: NOT ALL ABBREVIATIONS WILL NECESSARILY BE USED. | | | |
| A.F.F. | ABOVE FINISH FLOOR | SCBA | STANDARD PAINTED COLOR AS SELECTED BY THE ARCHITECT |
| WALL@CLG | WALL MOUNT AT CORNER OF WALL AND CEILING | CFBA | CUSTOM FINISH AS SELECTED BY THE ARCHITECT |
| CCBA | CUSTOM PAINTED COLOR AS SELECTED BY THE ARCHITECT | SFBA | STANDARD FINISH AS SELECTED BY THE ARCHITECT |
| | | MOD | MODIFY STANDARD LIGHT FIXTURE AS INDICATED |

- LIGHT FIXTURE GENERAL NOTES**
- REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO BIDDING.
 - REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
 - REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE, FUSING, BALLAST, AND LAMP REQUIREMENTS AND ACCEPTABLE MANUFACTURERS.
 - CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE.
 - REFER TO LIGHTING PLANS FOR ALL LINEAR FIXTURE LENGTHS. THE CATALOG NUMBER IS BASED ON THE FIXTURE SPECIFIED AND MAY NOT REFLECT THE QUANTITY OR OVERALL LENGTH OF LINEAR FIXTURES REQUIRED. CONTRACTOR TO NOTE THAT VARIOUS FIXTURE LENGTHS MAY BE REQUIRED TO ACHIEVE THE OVERALL RUN LENGTH.
 - REFER TO LIGHTING PLANS FOR ALL UNDERCABINET FIXTURE LENGTHS. THE CATALOG NUMBER IS BASED ON THE FIXTURE SPECIFIED AND MAY NOT REFLECT THE QUANTITY OR OVERALL LENGTH OF UNDERCABINET FIXTURES REQUIRED. CONTRACTOR TO NOTE THAT VARIOUS FIXTURE LENGTHS MAY BE REQUIRED TO ACHIEVE THE OVERALL RUN LENGTH OR TO FIT WITHIN THE MILLWORK. COORDINATE FIXTURE LAYOUT WITH MILLWORK SHOP DRAWINGS PRIOR TO LIGHTING SUBMITTALS.
 - WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, THE DESCRIPTION SHALL GOVERN.
 - PRIOR APPROVALS SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (8) EIGHT WORKING DAYS BEFORE THE BID. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE REJECTED.
 - REFER TO SPECIFICATIONS 260500, 265100 & 265600 (16001, 16510 & 16551).
 - VALUE ENGINEERING CONDUCTED WITHOUT THE DESIGN TEAM IE; ARCHITECT, OWNER, ENGINEER & LIGHTING CONSULTANT/DESIGNER WILL NOT BE ALLOWED, REVIEWED OR APPROVED.

FIXTURE SCHEDULE

| | | | | | | | Project Manager: |
|------|--|--------------|-------------------------------------|-------|-------------|----------|------------------|
| | | | | | | | RICHARD WARDLE |
| TYPE | DESCRIPTION | MANUFACTURER | CATALOG NUMBER | VOLTS | TOTAL WATTS | LAMPS | |
| A | 4 FOOT LED SURFACE WRAP FIXTURE WITH 5,072 LUMENS, PEARLESCENT POLY CARBONATE LENS, ELECTRONIC DRIVER AND EMERGENCY BATTERY PACK | KENALL | MLHA8-48-R-MW-PP-45L40K-DOC-120-LEL | 120 | 49 | INCLUDED | |
| B | 4 FOOT LE STRIP FIXTURE WITH 4436 LUMENS, FULL FROST LENS AND ELECTRONIC DRIVER | METALLIX | 4SWLED-44HL-LW-LIN-L840-CD1-U | 120 | 40 | INCLUDED | |
| OA | LED WALL SCONCE WITH 4000 LUMENS, PHOTOCELL, ELECTRONIC DRIVER | LUMARK | XTOR4B-Y-SCBA-PC1 | 120 | 38 | INCLUDED | |

EQUIPMENT SCHEDULE

| UNIT # | FUNCTION | LOAD | VOLT | PHASE | FULL LOAD AMPS | CONDUIT SIZE | WIRES | | | | OCPD | | REF. NOTES | | REMARKS |
|--------|----------------------|---------|------|-------|----------------|--------------|-------|------|------------|------|------|---------|------------|-------|---------|
| | | | | | | | NO. | SIZE | EQUIP. GND | TYPE | AMPS | STARTER | DISCONNECT | OTHER | |
| EF-1 | EXHAUST FAN | 100 VA | 120 | 1 | 0.83 | 3/4" | 1 | 2 | 12 | 12 | CB | 15 | 4A | | |
| EH-1 | ELECTRIC UNIT HEATER | 10 KVA | 208 | 1 | 48.08 | 1" | 1 | 2 | 4 | 8 | CB | 70 | | 1A | |
| RP-1 | RADIANT PANEL | 750 VA | 120 | 1 | 6.25 | 3/4" | 1 | 2 | 12 | 12 | CB | 20 | | | 11A |
| WH-1 | WATER HEATER | 2000 VA | 120 | 1 | 16.67 | 3/4" | 1 | 2 | 10 | 10 | CB | 25 | | 1A | |

- NOTES:**
- NON-FUSED DISCONNECT SWITCH
 - FUSED DISCONNECT SWITCH
 - BREAKER IN ENCLOSURE
 - MANUAL STARTER WITH THERMAL OVERLOAD
 - MAGNETIC STARTER
 - MAGNETIC STARTER/NON-FUSED DISCONNECT COMBINATION
 - MAGNETIC STARTER/FUSED DISCONNECT COMBINATION
 - MAGNETIC STARTER/BREAKER COMBINATION
 - VARIABLE FREQUENCY DRIVE
 - REDUCED VOLTAGE STARTER
 - DIRECT CONNECTION
 - RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC.
 - TWO-SPEED STARTER, COORDINATE W/MOTOR TYPE
 - SOLID STATE SOFT STARTER
- A. FURNISHED, INSTALLED, AND CONNECTED UNDER DIVISION 26
 B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION REQUIRING CONNECTION UNDER DIVISION 26.
 C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 26.
 D. FURNISHED, INSTALLED AND CONNECTED UNDER ANOTHER DIVISION.
- CB = CIRCUIT BREAKER - THERMAL MAGNETIC
 CW = CHILLER KILOWATTS
- NOTE 1: PER 250.122(A), EQUIPMENT GROUND IS NOT REQUIRED TO BE LARGER THAN PHASE CONDUCTOR.

| NO. | REVISION DESCRIPTION | DATE |
|-----|----------------------|------|
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| | | |



| CONSTRUCTION | BNA | RLW | RLW | 01/21/19 | --- |
|--------------|-----------|-------------|--------------|----------|------------|
| SUBMITTAL | DRAWN BY: | CHECKED BY: | APPROVED BY: | RELEASE: | PLOT DATE: |

CALL BLUESTAKES
 @ 1-800-662-4111 AT
 LEAST 48 HOURS PRIOR
 TO THE COMMENCEMENT
 OF ANY CONSTRUCTION.

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING



HERRIMAN CITY
ENGINEERING DEPARTMENT
 CEMETERY RESTROOM BUILDING
 6018 W. HERITAGE HILL DRIVE
SCHEDULES

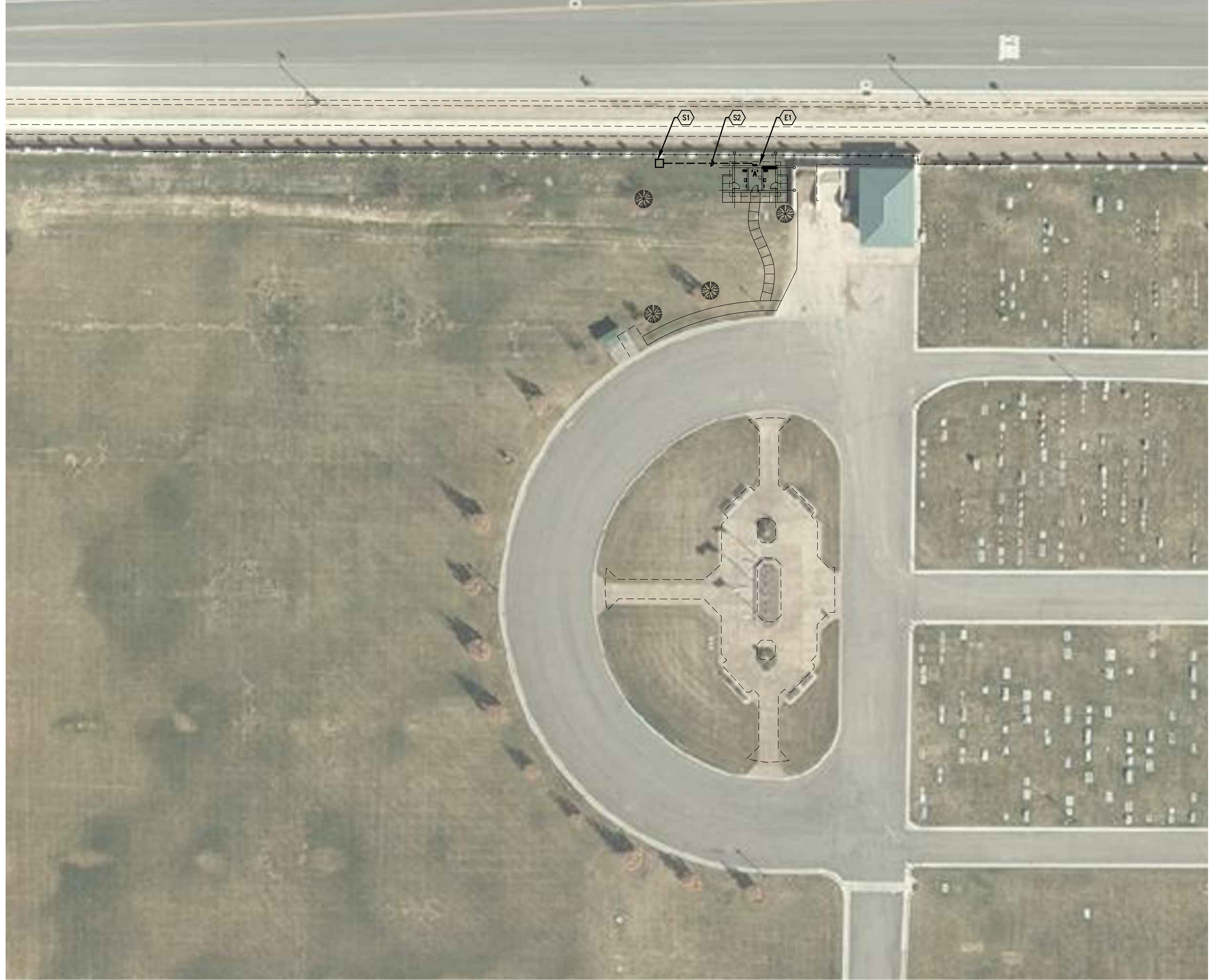


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E002

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| SHEET KEYNOTES | |
|----------------|--|
| (S1) | EXISTING ROCKY MOUNTAIN POWER CONNECTION BOX. |
| (S2) | (1) 3" CONDUIT FOR POWER SERVICE. SEE ONE-LINE DIAGRAM SHEET E401. |
| (E1) | FEED THRU METER BASE. SEE ONE-LINE DIAGRAM SHEET E401 FOR ADDITIONAL SERVICES. |



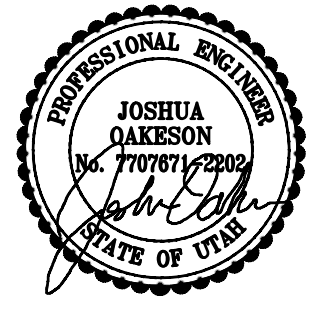
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| SUBMITTAL | | CONSTRUCTION | |
|--------------|----------|---------------|-----|
| DRAWN BY: | BNA | CONSTRUCTION: | BNA |
| CHECKED BY: | RLW | | RLW |
| APPROVED BY: | RLW | | RLW |
| RELEASE: | 01/21/19 | | |
| PLOT DATE: | | | |

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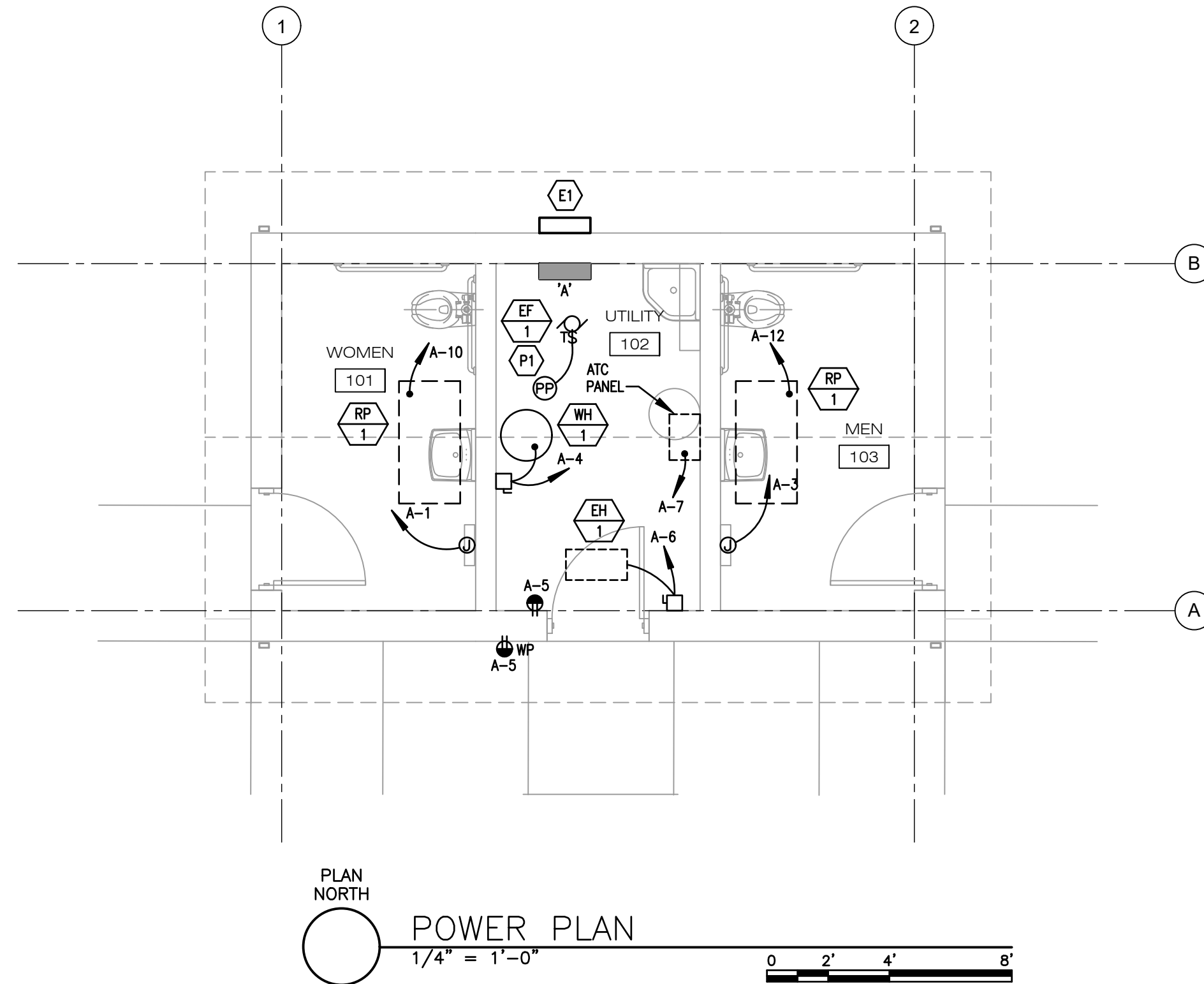
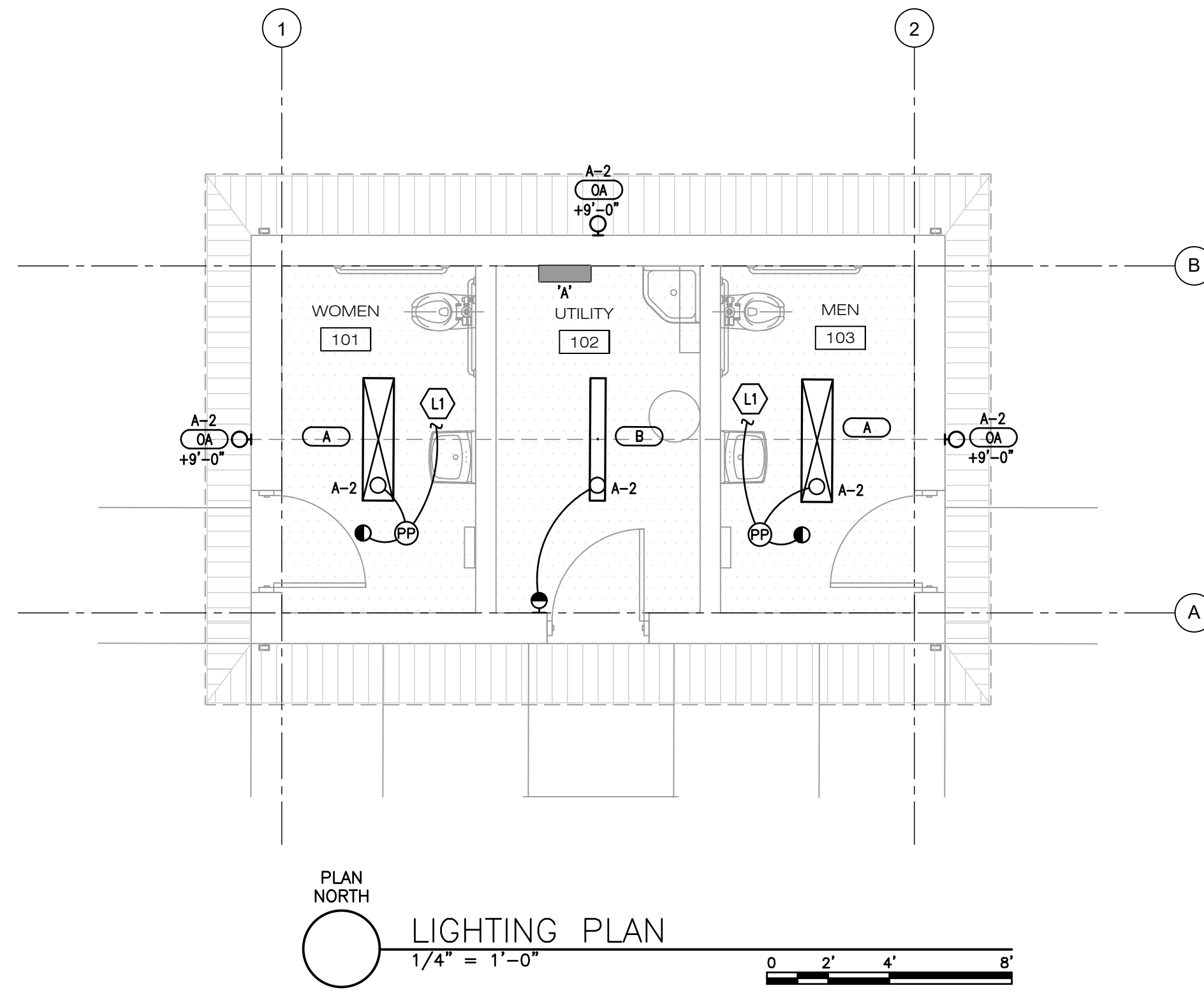


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 6018 W. HERITAGE HILL DRIVE
ELECTRICAL SITE PLAN

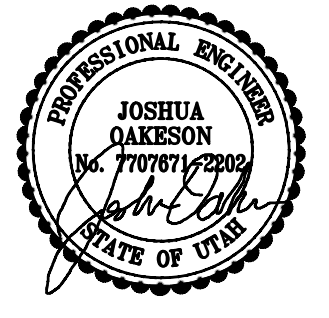
E101

SHEET KEYNOTES

- E1 FEED THRU METER BASE. SEE ONE-LINE DIAGRAM SHEET E401 FOR ADDITIONAL REQUIREMENTS.
- P1 WIRE EXHAUST FAN TO OCCUPANCY SENSOR IN RESTROOMS.
- L1 PROVIDE WIRING TO POWER PACK TO CONTROL EXHAUST FAN.



| NO. | REVISION DESCRIPTION | DATE |
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| CONSTRUCTION | NO. | DATE |
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| RLW | | |
| RLW | | |
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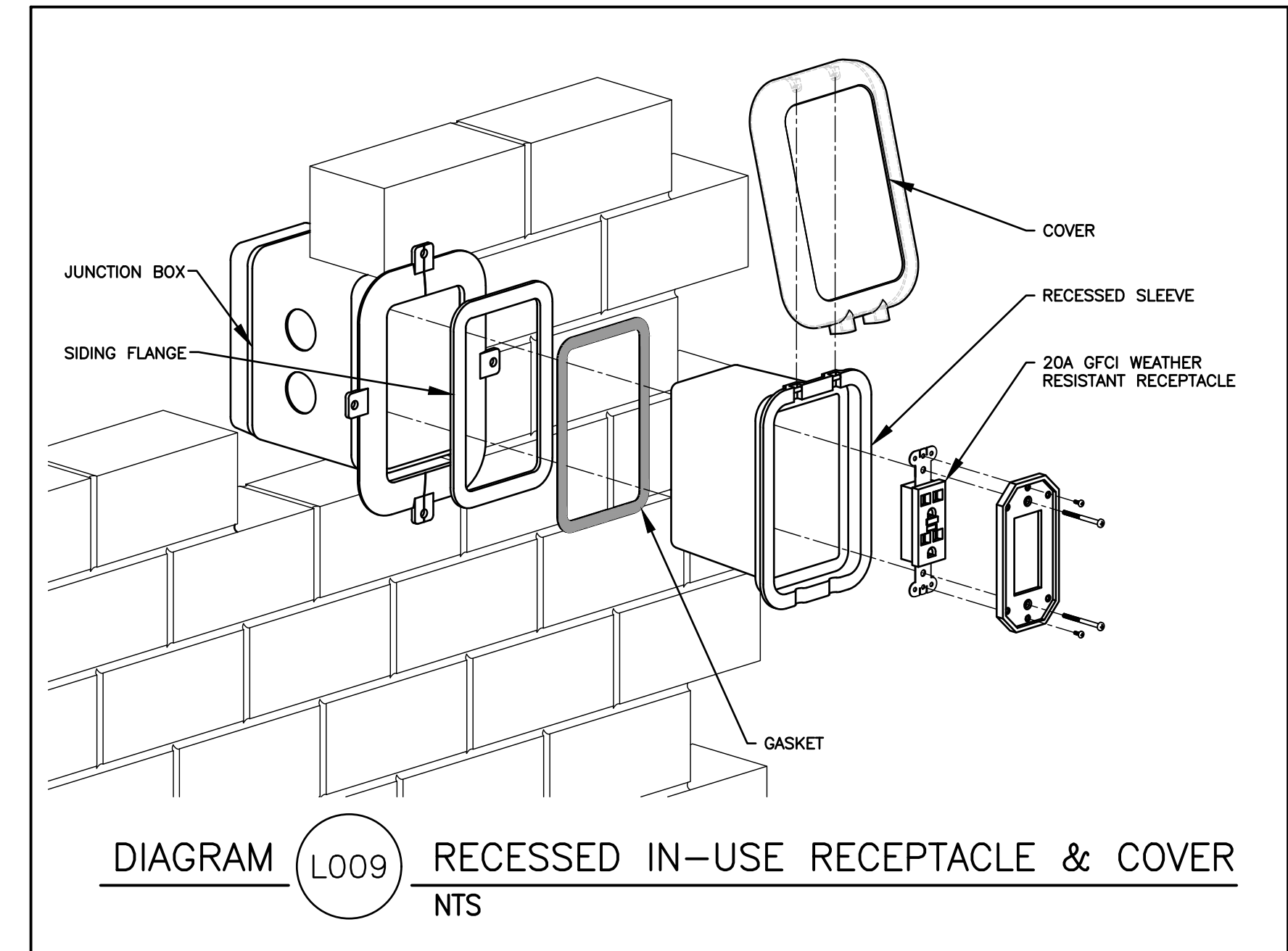
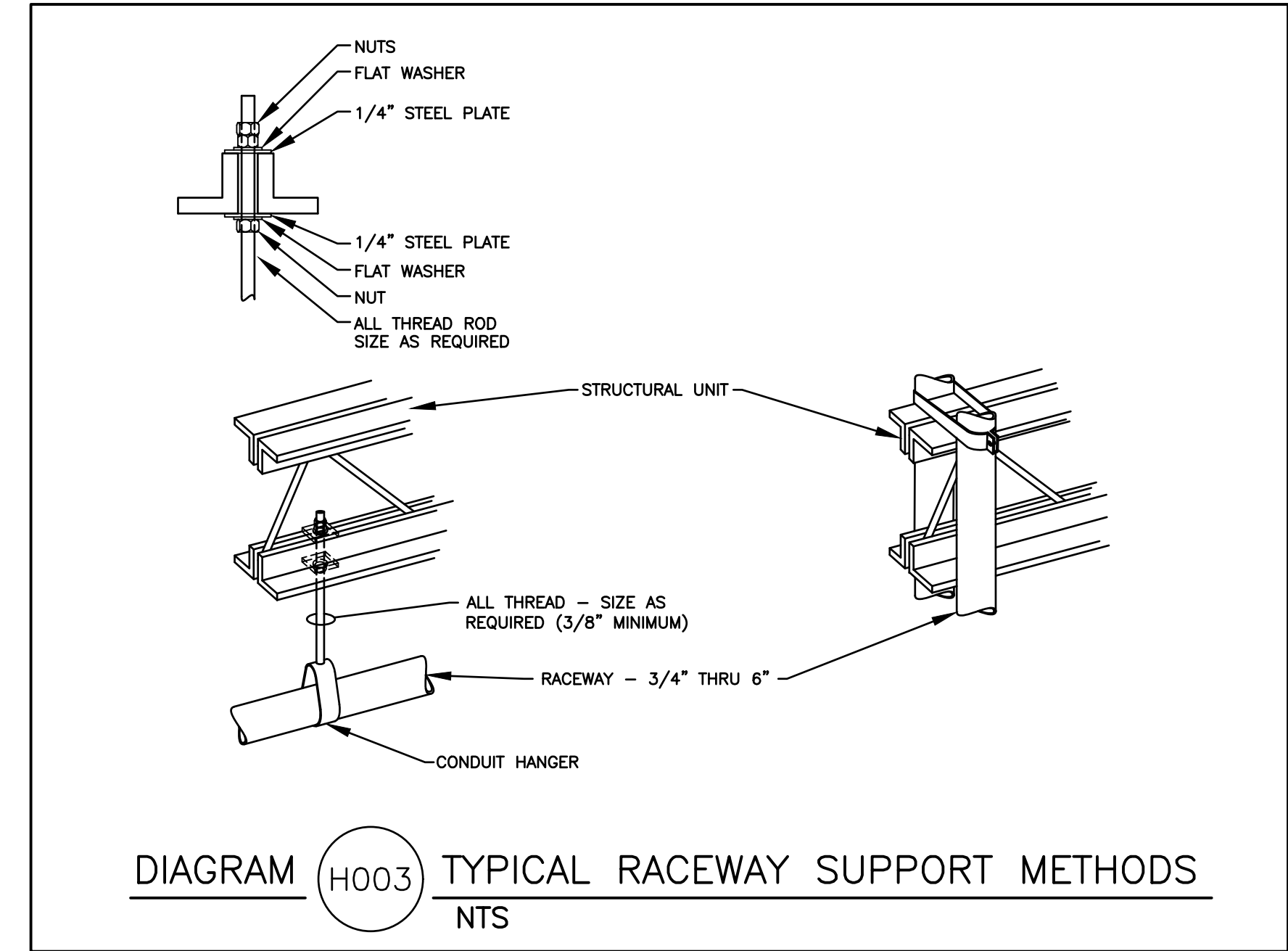
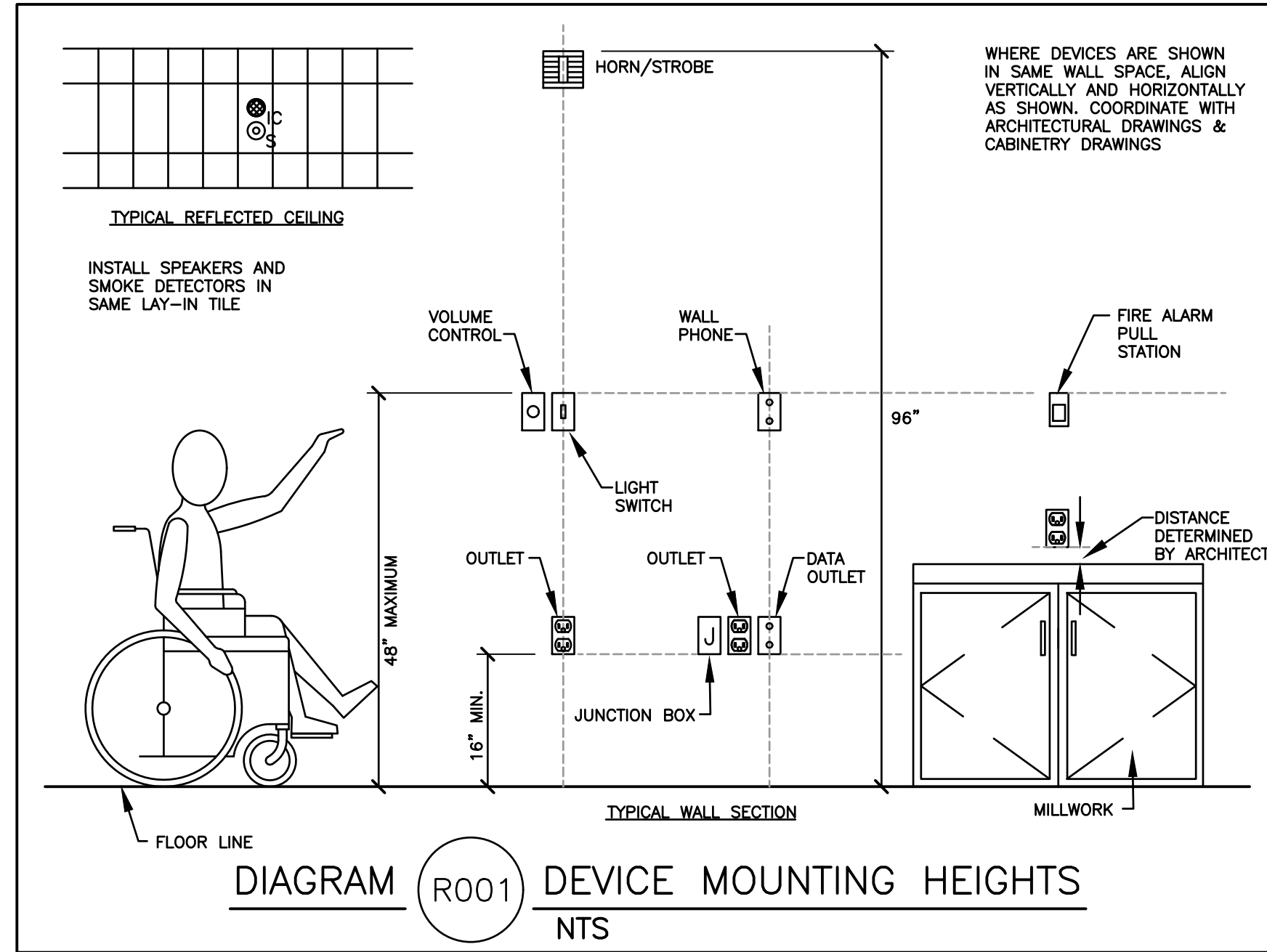


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6018 W. HERITAGE HILL DRIVE
LIGHTING AND POWER PLANS

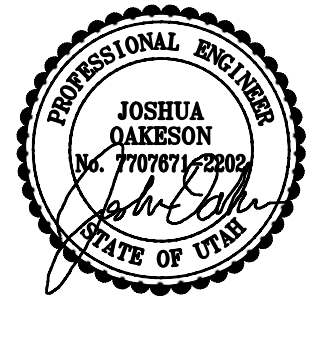
E201



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| RLW | | |
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