

Sparks Municipal Court Security Entrance Remodel

1450 C Street
Sparks, Nevada 89431

City of Sparks
431 Prater Way
Sparks, Nevada 89432

CIP # 17-2300

January 16, 2017
Bid Documents


Jon R. Ericson P.E., P.T.O.E., City Engineer

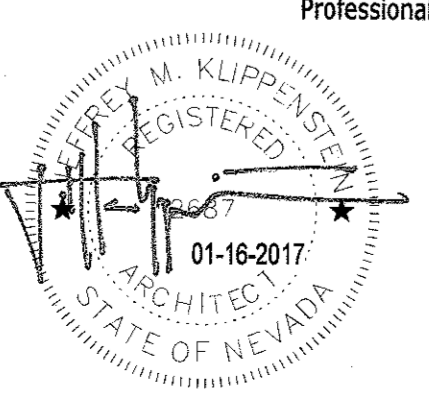
3/2/17
Date

Heidi Shaw, Court Administrator

Date

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| Professional Seal | △ | Date | Revision |
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**Sparks Municipal Court
Security Entrance Remodel**

1450 C Street
Sparks, Nevada 89431

Title Sheet

January 16, 2017
H+K Project No: 1628
G001



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

General Notes

- These general notes pertain to work described on all contract documents.
- The contract documents consist of the owner-contractor agreement, the conditions of the contract (general, supplementary and other conditions), the drawings, the specifications, and all addenda issued prior to and all modifications issued after execution of the contract.
- The work comprises the completed construction required by the contract documents and includes all labor necessary to produce such construction, and all materials and equipment incorporated or to be incorporated in such construction.
- Shop drawings, product data and samples are not a part of the contract documents. The Architect will review them, but only for conformance with the design concept of the work and with the information given in the contract documents. The Contractor shall not be relieved of responsibility for any deviation from the requirements of the contract documents by the Architect's review of shop drawings, product data or samples.
- The Contractor shall carefully study and compare the contract documents and shall at once report to the Architect any error, inconsistency or omission he may discover. The Contractor shall perform no portion of the work at any time without contract documents or, where required, approved shop drawings, product data or samples for such portion of the work.
- All work is to conform with the contract documents. Drawings are NOT to be scaled for information. If unable to locate dimensions for any item of work, consult with the Architect before proceeding with construction.
- In the event certain features of the construction are not fully shown on the contract documents, then their construction shall be of the same character as for similar conditions that are shown or called for and shall be reviewed by the Architect.
- All work shall be performed within strict conformance to the minimum standards of the current edition of the adopted building codes of the authority having jurisdiction and all applicable national, state, and local laws, regulations, and ordinances.
- The Contractor shall be responsible for the general safety during construction, and all work shall conform to pertinent safety regulations.
- The Contractor shall coordinate locations of any and all mechanical, telephone, electrical, lighting and plumbing including all piping, ductwork and conduit. Coordinate all required clearances for installation and maintenance of the above equipment.
- The Contractor shall supervise and direct the work, using his best skill and attention. He shall be solely responsible for all construction means, methods, techniques, sequences and procedures and for coordinating all portions of the work under the contract.
- The Contractor shall be responsible for the acts and omissions of his employees, subcontractors, and their agents and employees, and other persons performing any work under a contract with the Contractor.
- The Contractor shall pursue work in a continuous and diligent manner to ensure a timely completion of the project.
- The Contractor at all times shall keep the premises free from accumulation of waste materials or rubbish caused by his operations. At the completion of the work he shall remove all his waste materials and rubbish from and about the project as well as all his tools, construction equipment, machinery, and surplus materials.
- The Contractor shall be responsible for the location and/or protection of all existing and proposed piping, utilities, structures, adjacent streets and improvements during the period of construction.
- Unless otherwise provided in the contract documents, the Contractor shall provide and pay for all labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for the proper execution and completion of the work.
- Where conflicts occur, coordinate the layout and exact location of all partitions, doors, telephones, and electrical/communication outlets and switches with Architect in the field before proceeding with construction.
- Where conflict is encountered between the contract documents that will materially affect the quality or extent of the work, such conflict shall be resolved to the satisfaction of the Architect before the affected items and/or material are purchased, fabricated and/or installed.
- Where pre-manufactured or prefabricated items and/or materials are to be installed - the Contractor shall verify rough or finished dimensions in the field prior to purchase or fabrication.
- The Contractor shall guarantee all work and materials to be free from defects for a minimum of one year from date of final acceptance, and promptly remedy such defects and any subsequent damage caused by the defects or repair thereof, at no expense to the owner. Guarantee periods of greater than one year may be required and contained within the contract documents.
- Where any item and/or material is indicated in the contract documents, and not necessarily detailed in each specific case, but is required for a complete and professional installation - such item and/or material shall be provided as if shown and detailed in full. Provide means to furnish and install.
- Contractor is requested to visit the site as part of the pre-bid site visit to compare the drawings and specifications with any work in place, and inform himself of all conditions, including the work, if any, being performed. Failure to visit the site will in no way relieve the Contractor from necessity of furnishing any materials or performing any work in accordance with the drawings and specifications that may be required to complete the work without additional cost to the owner.
- Existing conditions including material sizes, configurations, and locations as shown on the drawings may not be an exact illustration of existing as-built conditions. The Contractor shall include in his bid the cost of furnishing, installing, modifying, existing and/or new materials (minor in nature) required for a complete and professional installation that may be required by minor variations between existing conditions as shown, and actual as-built conditions.

Project Team

Owner:
City of Sparks Public Works
PO Box 857
Sparks, Nevada 89432
353-7864
Contact: Kevin Porter, P.E.

Using Agency:
Sparks Municipal Court
1450 C. Street
Sparks, NV 89431

Architect:
H+K Architects
5485 Reno Corporate Drive, Suite 100
Reno, Nevada 89511
870-4884
Contact: Phil O'Keefe, AIA

Electrical Engineer:
JP Engineering, LLC
10597 Double R Blvd, Suite 1
Reno, Nevada 89521-8909
852-2337
Contact: Mark Tatro

Mechanical Engineer:
Ainsworth Associates Mechanical Engineers
1420 Holcomb Avenue, Suite 201
Reno, Nevada 89502
329-9100
Contact: Roger Gravelle

Sheet Index

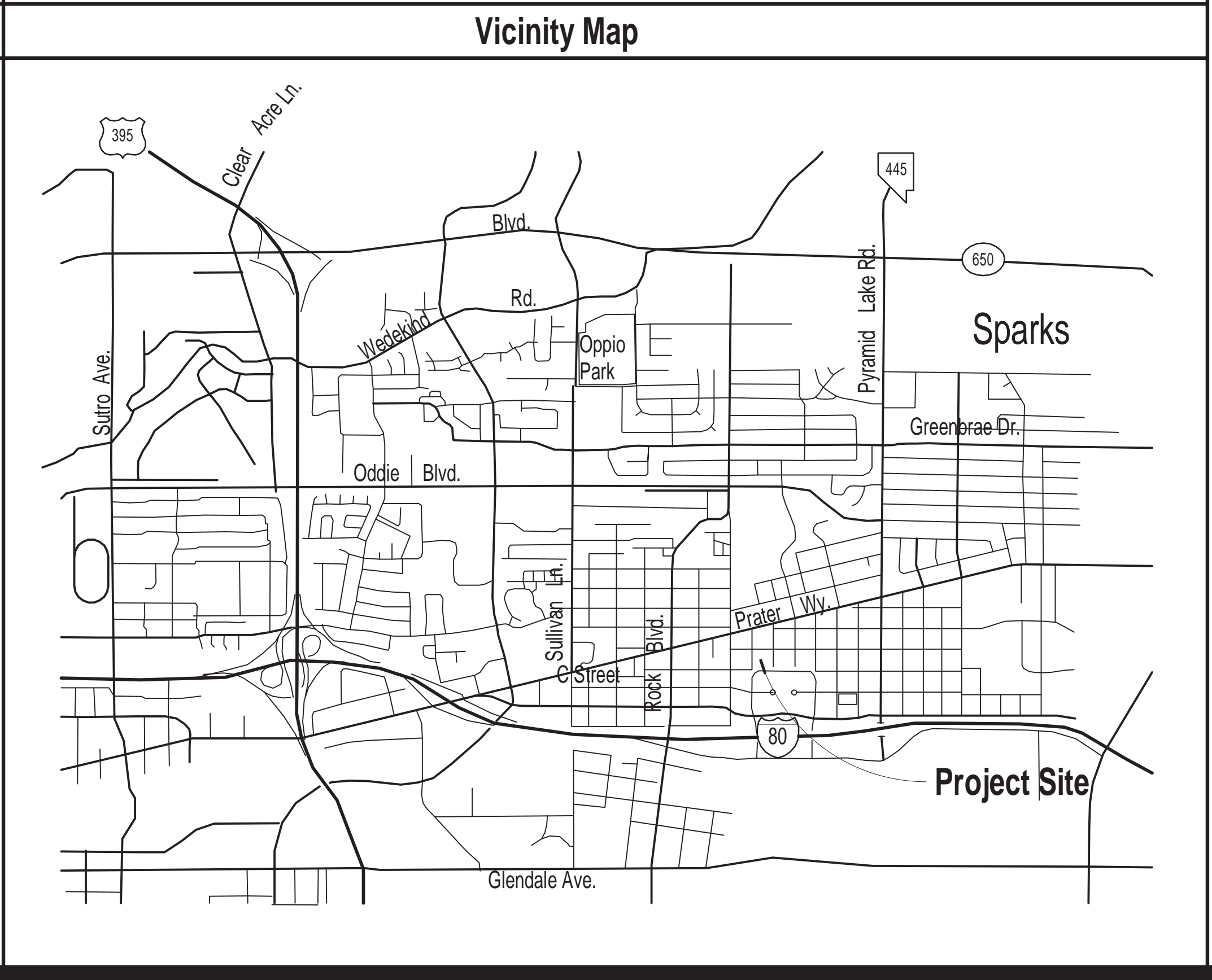
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|---------------|---|
| General | |
| G001 | Title Sheet |
| G101 | Project Data |
| G201 | Accessibility Diagrams |
| Architectural | |
| A101 | Demolition Floor Plan |
| A102 | Floor Plan |
| A121 | Typical Framing Details |
| A601 | Reflected Ceiling Demolition Plan |
| A602 | Reflected Ceiling Plan |
| A603 | Ceiling Details |
| A701 | Door Schedule, Storefront Elevations |
| A702 | Door and Storefront Details |
| A801 | Casework Elevations |
| A802 | Existing Casework Elevations |
| Mechanical | |
| M001 | Mechanical Details, Schedules, and Specifications |
| M101 | Mechanical Demolition Plan |
| M102 | Mechanical Renovation Plan |
| Electrical | |
| E001 | Symbol List and Specifications |
| E002 | Electrical Schedules and Lighting Compliance |
| E101 | Electrical Demolition Plan |
| E102 | Lighting Demolition Plan |
| E201 | Power and Signal Plan |
| E301 | Lighting Plan |

Design Criteria

| | |
|---|--|
| Applicable Codes: | 2012 International Building Codes (IBC) |
| Building Code: | 2012 International Building Codes (IBC) |
| Mechanical Code: | 2012 Uniform Mechanical Code (UMC) |
| Plumbing Code: | 2012 Uniform Plumbing Code (UPC) |
| Electrical Code: | 2011 National Electrical Code (NEC) |
| Fire Code: | 2012 International Fire Code, Vol. 1 (IFC) |
| Accessibility Codes: | 2010 Americans with Disabilities Act, Accessibility Guidelines and 2007 ICC/ANSI 117.1 |
| Energy Code: | 2012 International Energy Conservation Code |
| Floor Area: | |
| First Floor: | 9,910 SF |
| Total: | 9,910 SF |
| Occupancy Group: | Group A-3, Courtrooms Group B, Remainder of building |
| Type of Construction: | Type II-B |
| Required Area and/or Occupancy Separations: | 1-Hour between B & A |
| Fire Sprinkler Requirements: | Yes |
| Alarm Systems: | Yes |
| No. Stories: | 1 |
| Maximum Height: | 55' |
| Actual Height: | 37' |
| Insulation Requirements: | |
| Roof: | R-34 |
| Walls: | R-16 |
| Floor: | R-7 |

Symbols

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



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Sparks Municipal Court Security Entrance Remodel

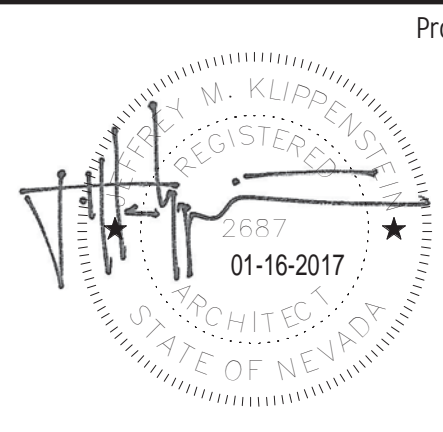
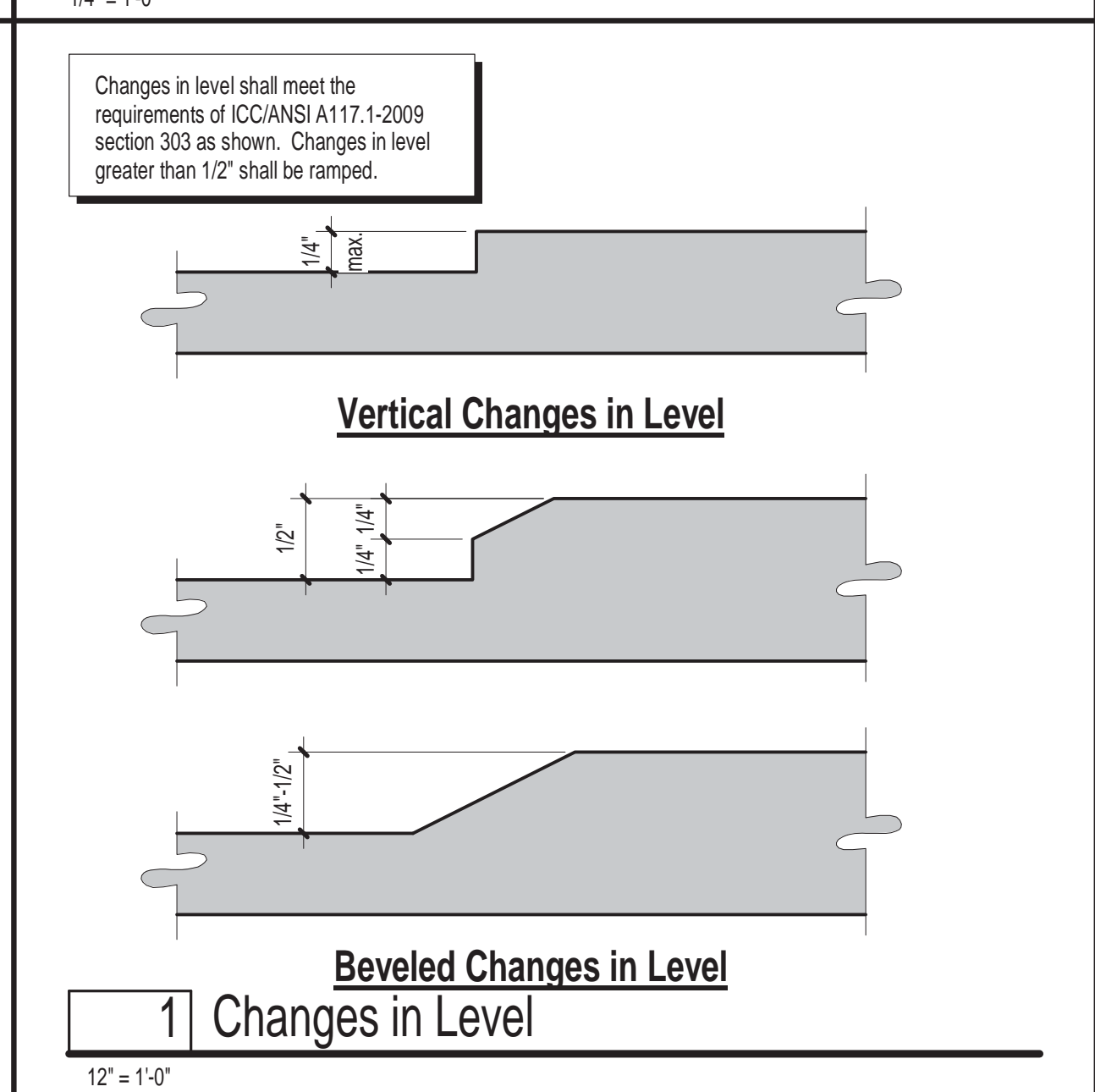
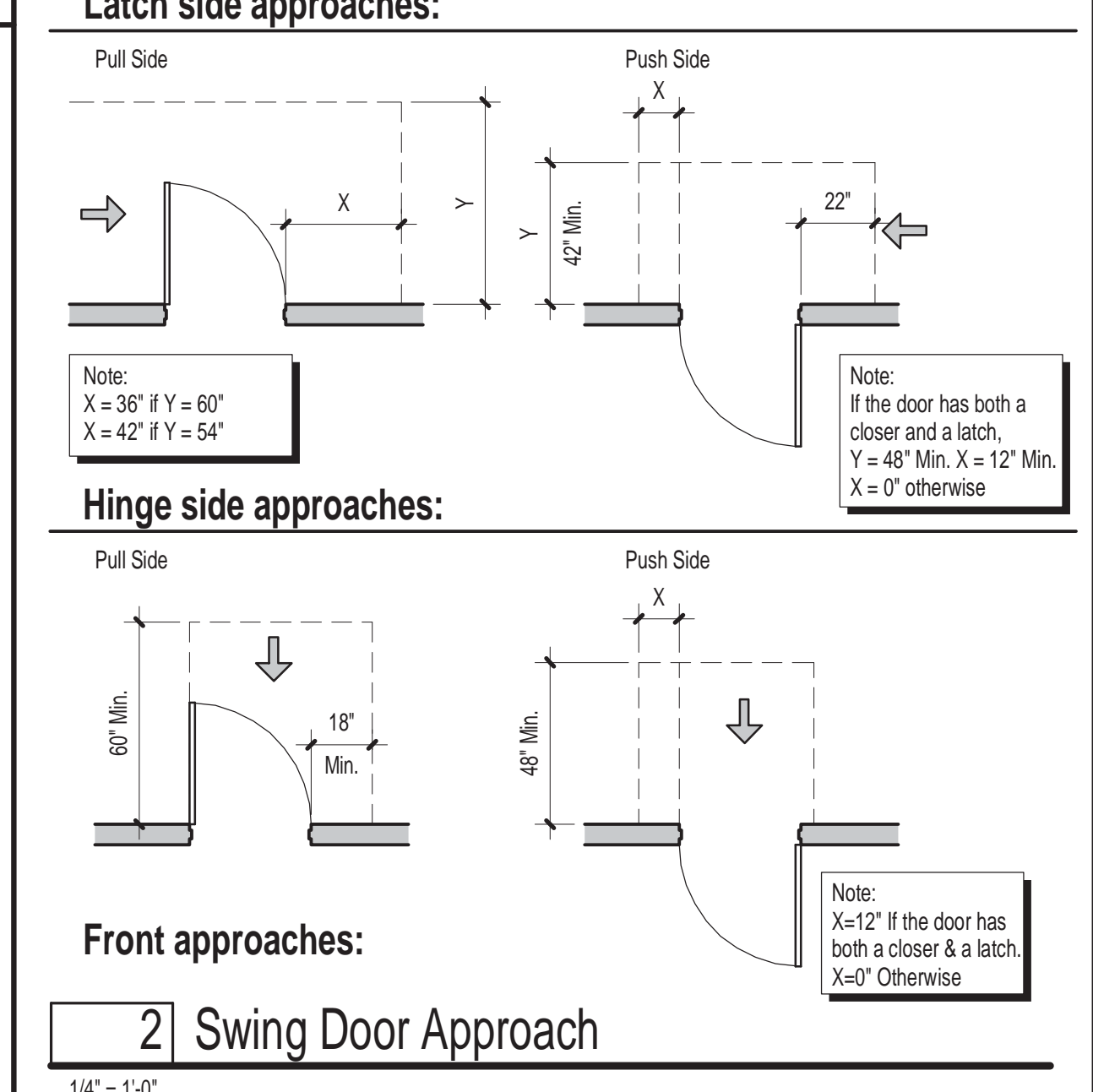
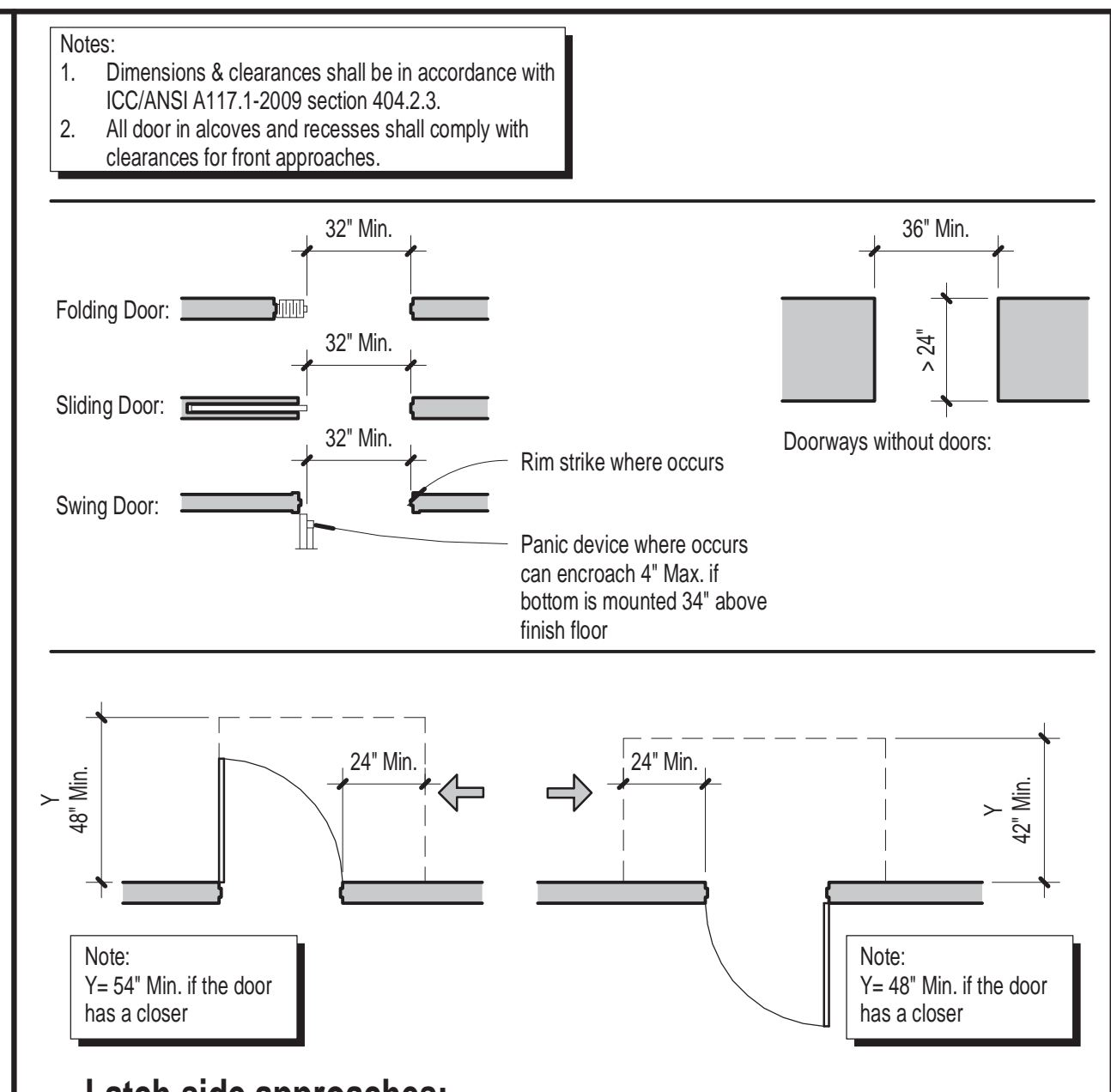
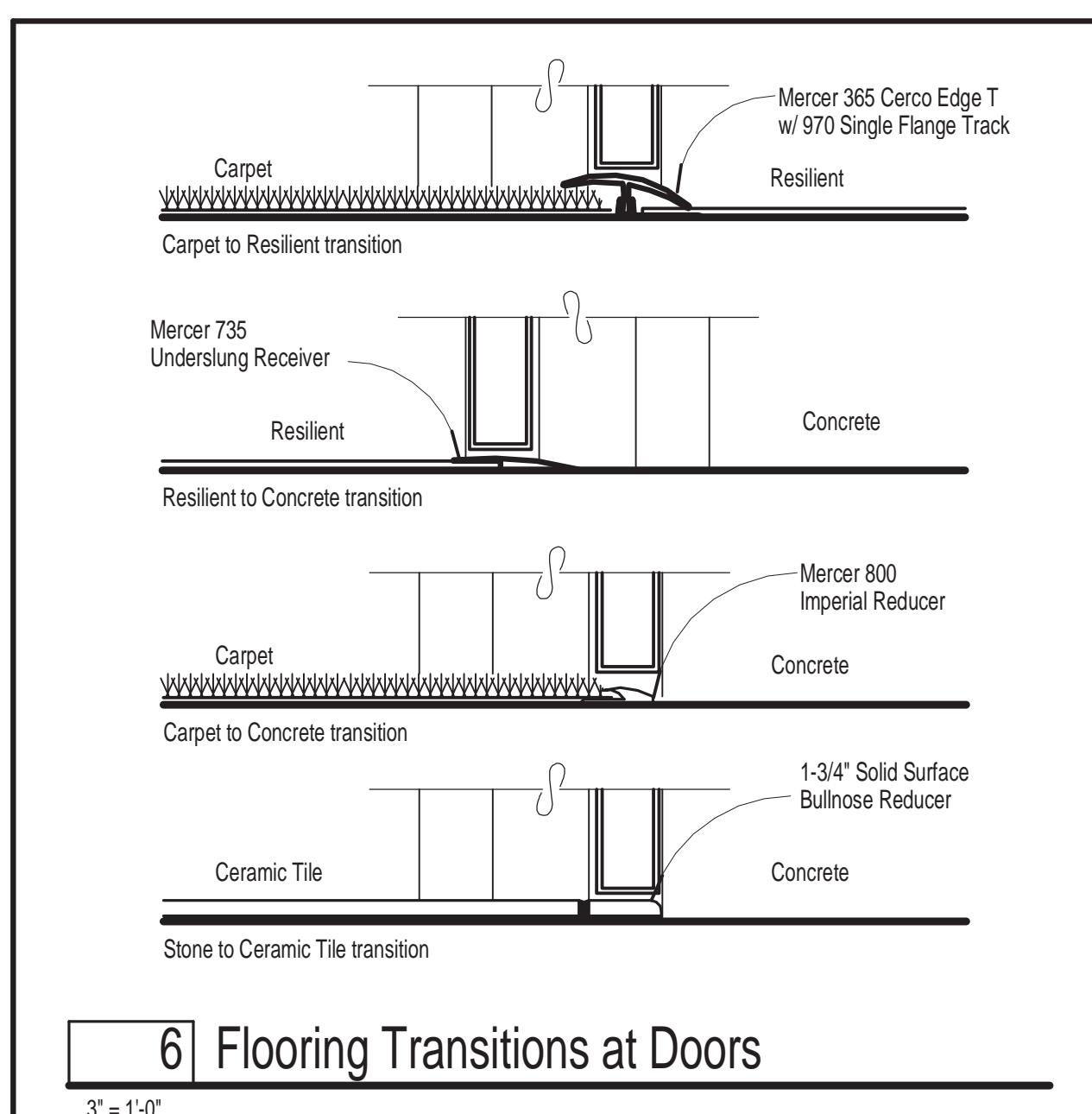
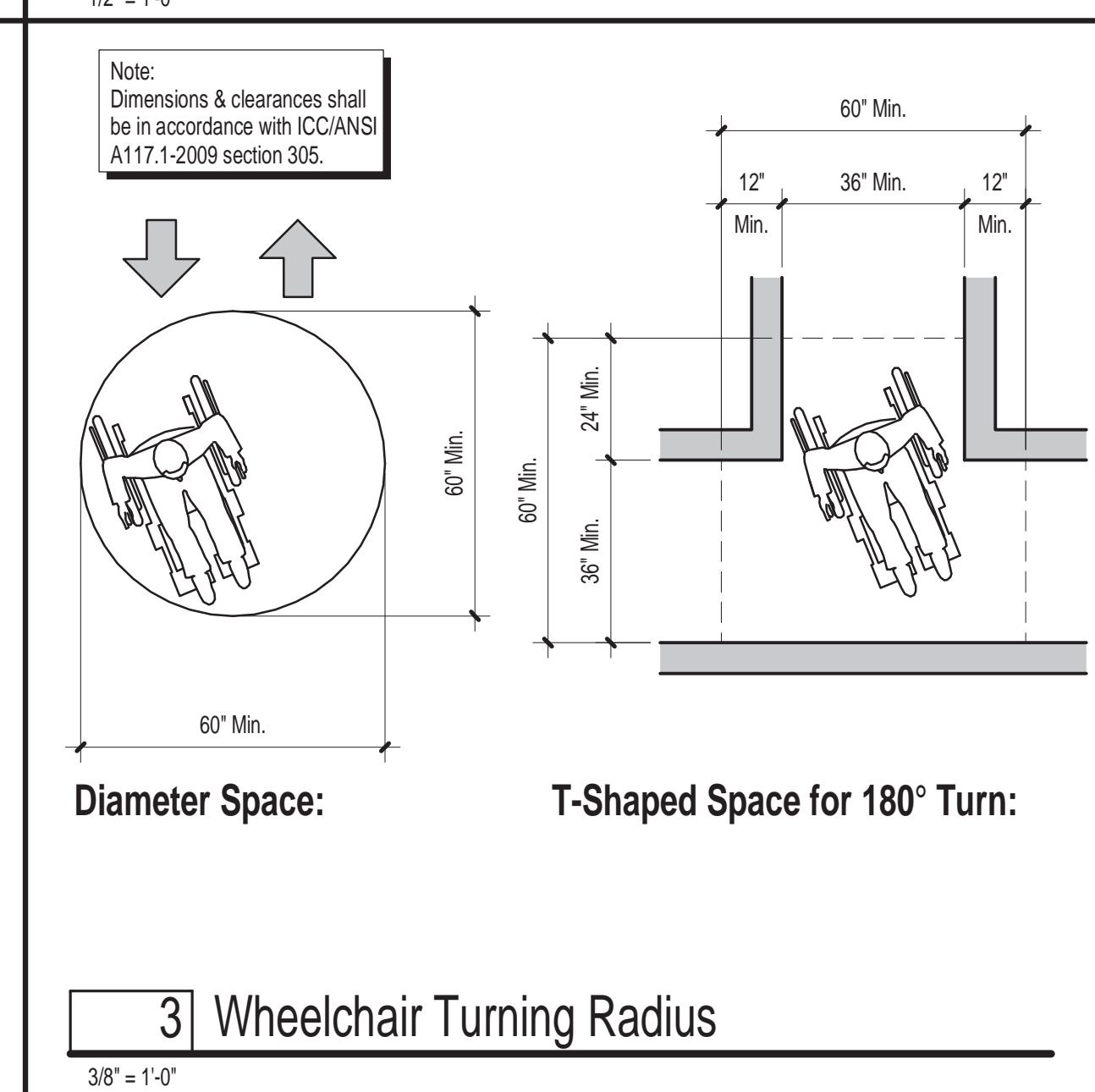
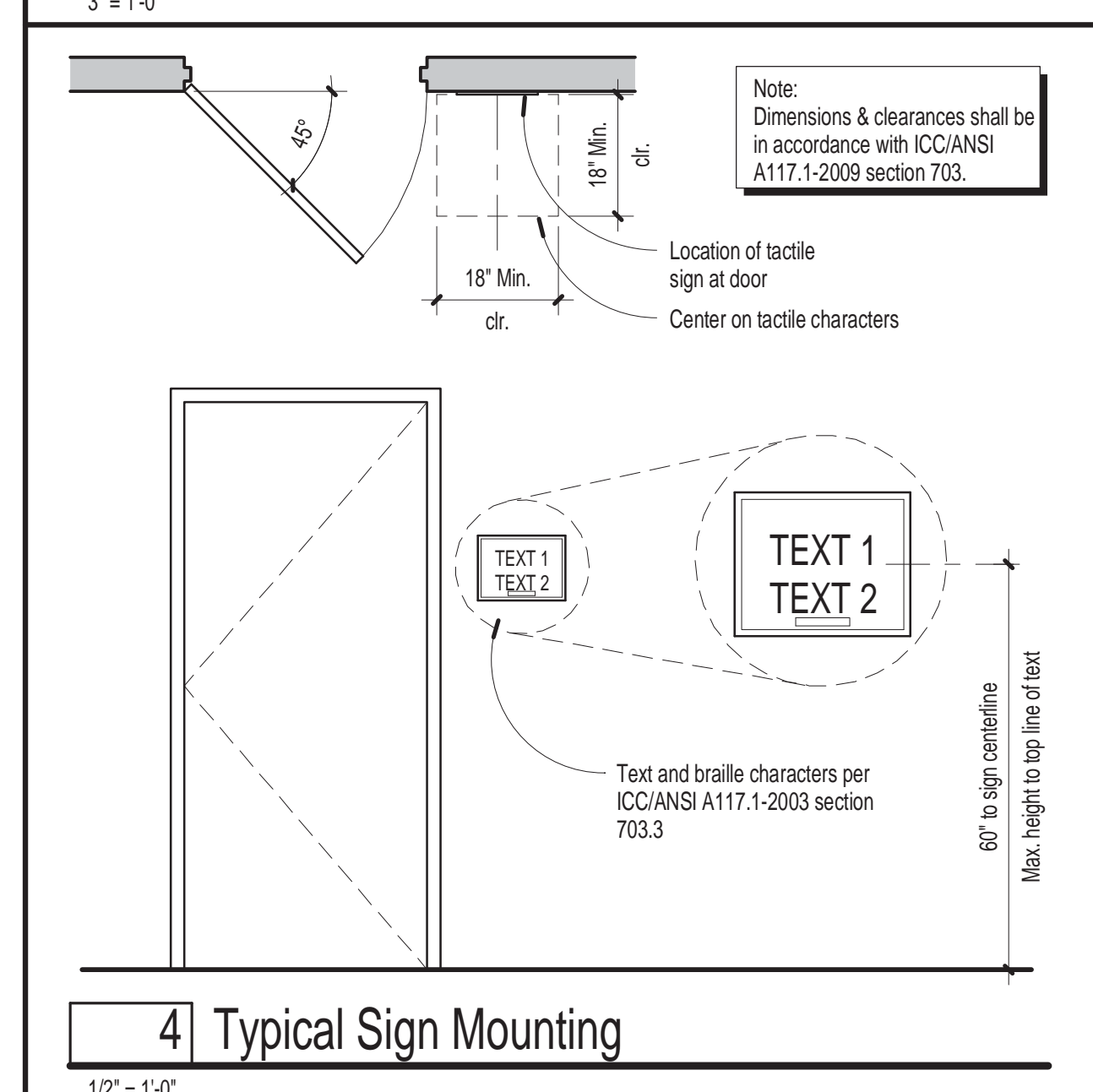
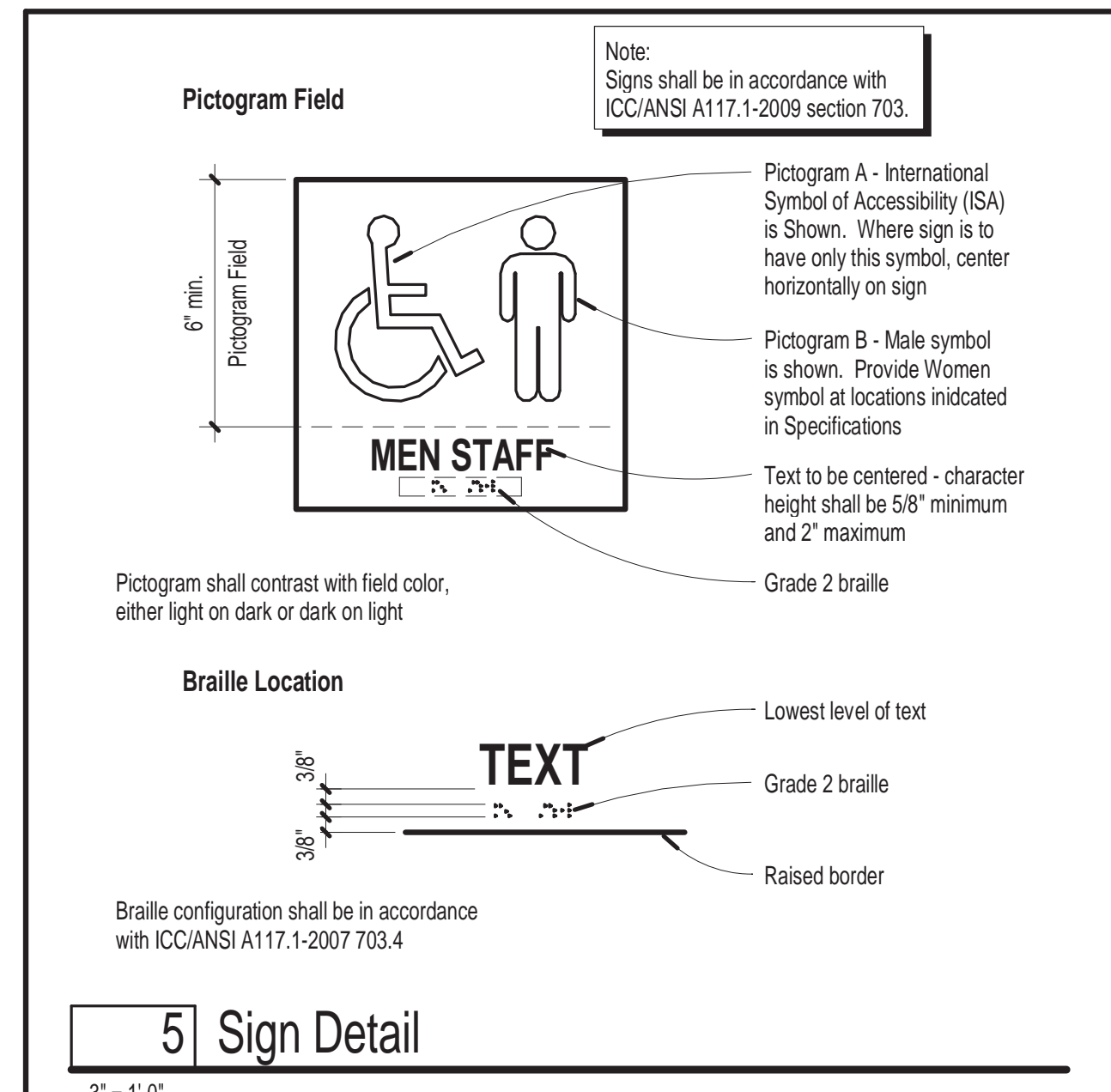
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Project Data

January 16, 2017
H+K Project No: 1628

G101

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Accessibility Diagrams

January 16, 2017
H+K Project No: 1628

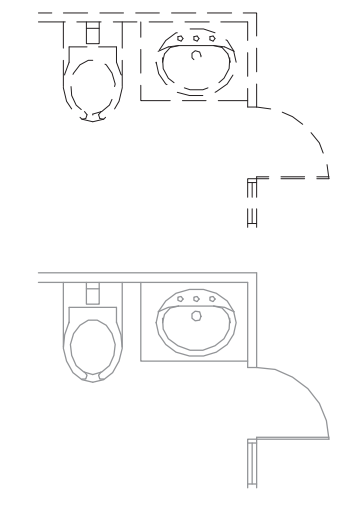
G201



Demolition Notes

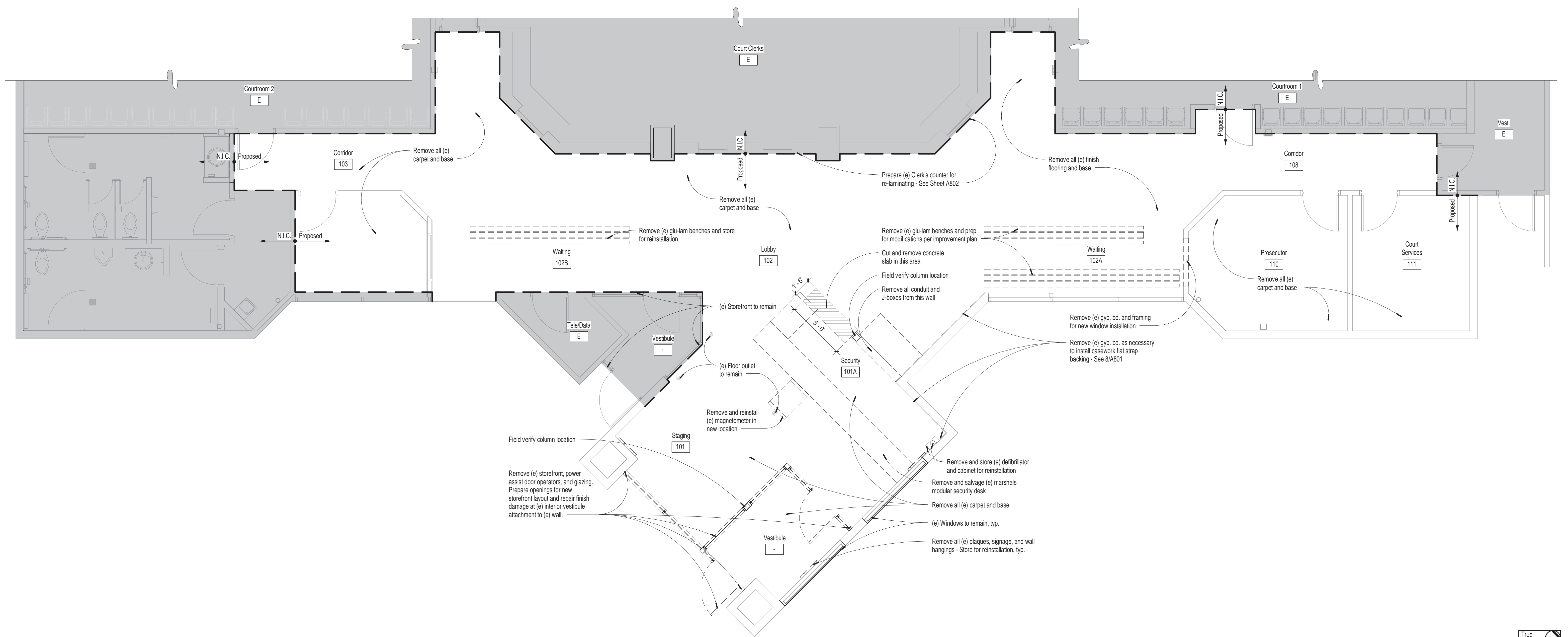
- For the purpose of Architectural work, all items not shown to be removed or altered on this sheet shall remain in their existing condition. This pertains to all equipment and other consultant's work. See other disciplines for additional demolition and alterations to utilities. Notify the Architect of any components which vary from those shown on the drawings.
- In the event that demolition work creates a condition where existing spaces are open to the weather, the Contractor shall protect the building from the effects of exposure from exterior conditions. These conditions shall be weather-tight at the conclusion of work each day. At the conclusion of his work in that area the Contractor is to replace all removed components to a weather-tight condition to match adjacent finishes.
- There will be selective demolition for Structural, Electrical and Mechanical components. This demolition is to facilitate the replacement and/or new installation of Structural, Electrical and Mechanical components. Although this demolition may not appear specifically on this sheet, the Contractor shall include in his bid all demolition work for the removal of required building materials necessary for the installation of these components.
- See Selective Demolition, Cutting and Patching sections in Project Manual for additional demolition requirements.
- Protect adjacent surfaces to remain from damage. Contractor is to repair or replace all finishes that are damaged or removed due to the installation or removal of any materials, fixtures, accessories or construction noted on these drawings. Repaired or replaced finishes shall match adjacent existing surfaces.
- Refer to Reflected Ceiling Demolition Plan, Mechanical, and Electrical demolition plans for additional required demolition.
- All dimensions are taken from Record Drawings. Dimensions must be field verified prior to the start of work.
- Revise mechanical and fire sprinkler systems as required. Contractor to field verify extent of work required.
- Definitions:
 Remove: Detach items from existing construction and legally dispose of them off-site, unless indicated to be removed and salvaged or removed and reinstalled.
 Remove and salvage: Detach items from existing construction and deliver them to the Owner. All removed ceiling panels, plumbing fixtures, and light fixtures are to be removed and salvaged.
 Remove and reinstall: Detach items from existing construction, prepare them for reuse, and reinstall them where indicated.
 Existing to remain: Existing items of construction that are not to be removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled.
- Remove all plaques, signage, and wall hangings from walls within limits of construction. Repair all damage from fasteners and adhesives. Prepare walls for repainting, and reinstall all signage in locations directed by Owner.

Demolition Legend



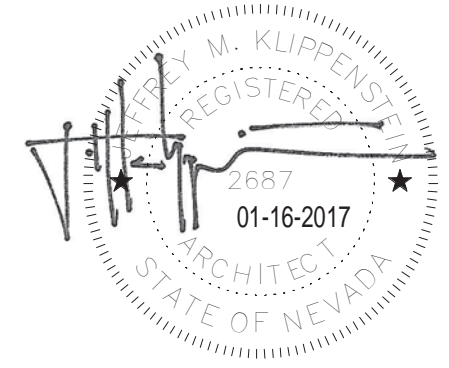
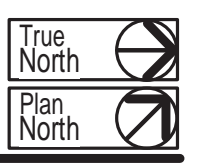
Walls, windows, doors, fixtures, etc. are to be removed and scrapped unless noted otherwise (U.N.O.).

Existing construction, equipment and fixtures to remain.



1 Demolition Floor Plan

1/4" = 1'-0"



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Demolition Floor Plan

January 16, 2017
 H+K Project No: 1628

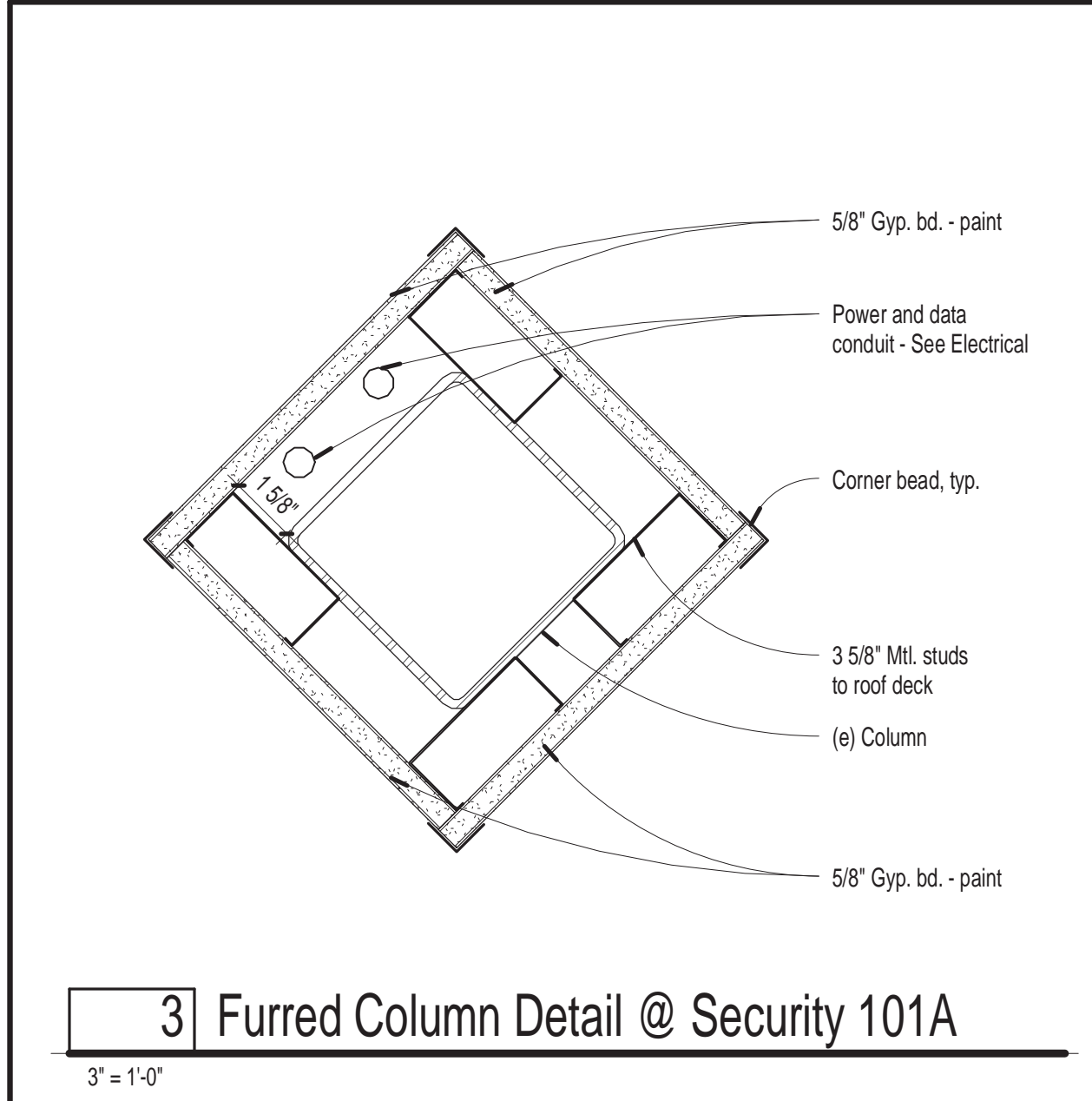
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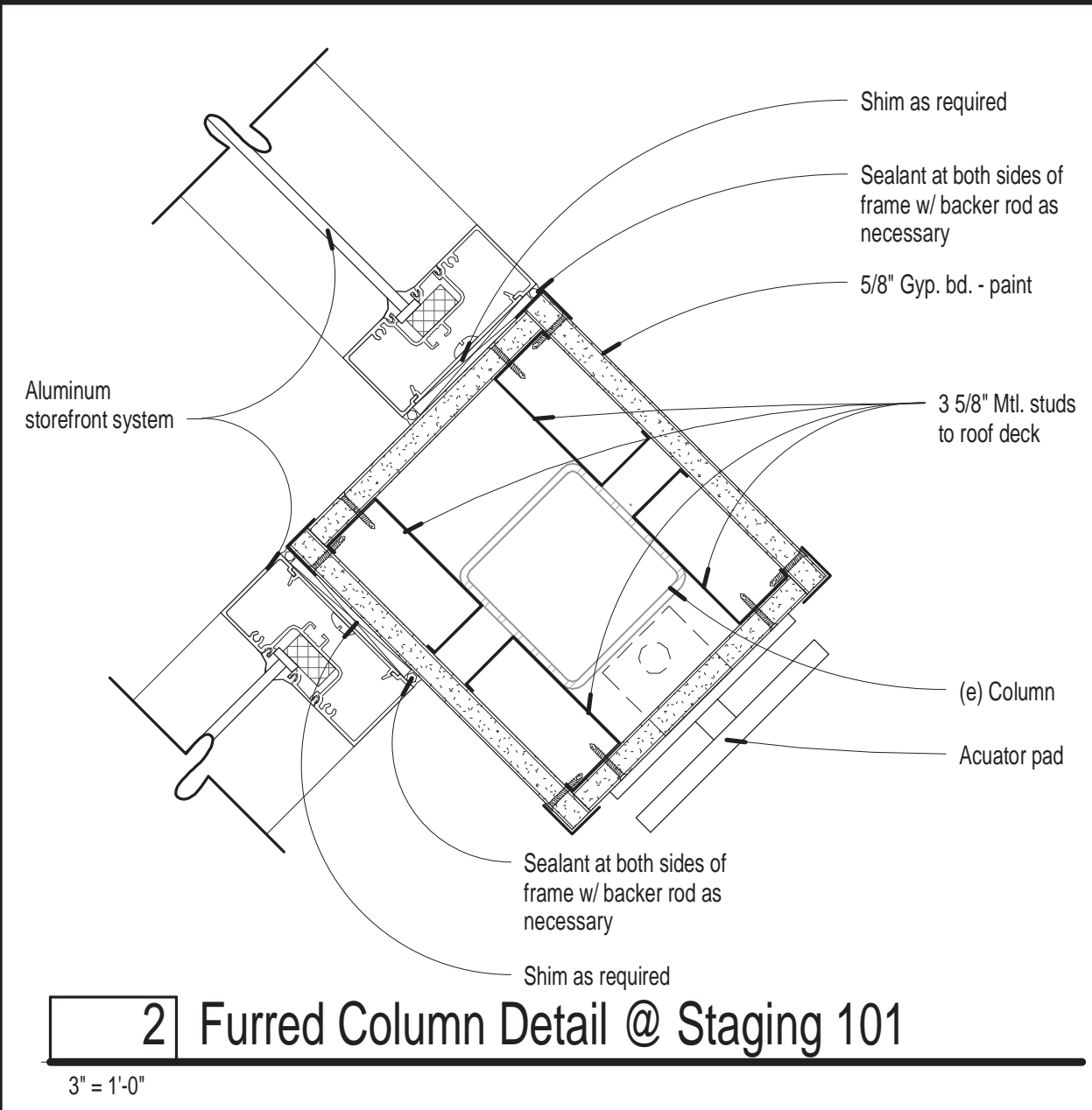
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3 Furred Column Detail @ Security 101A
3" = 1'-0"



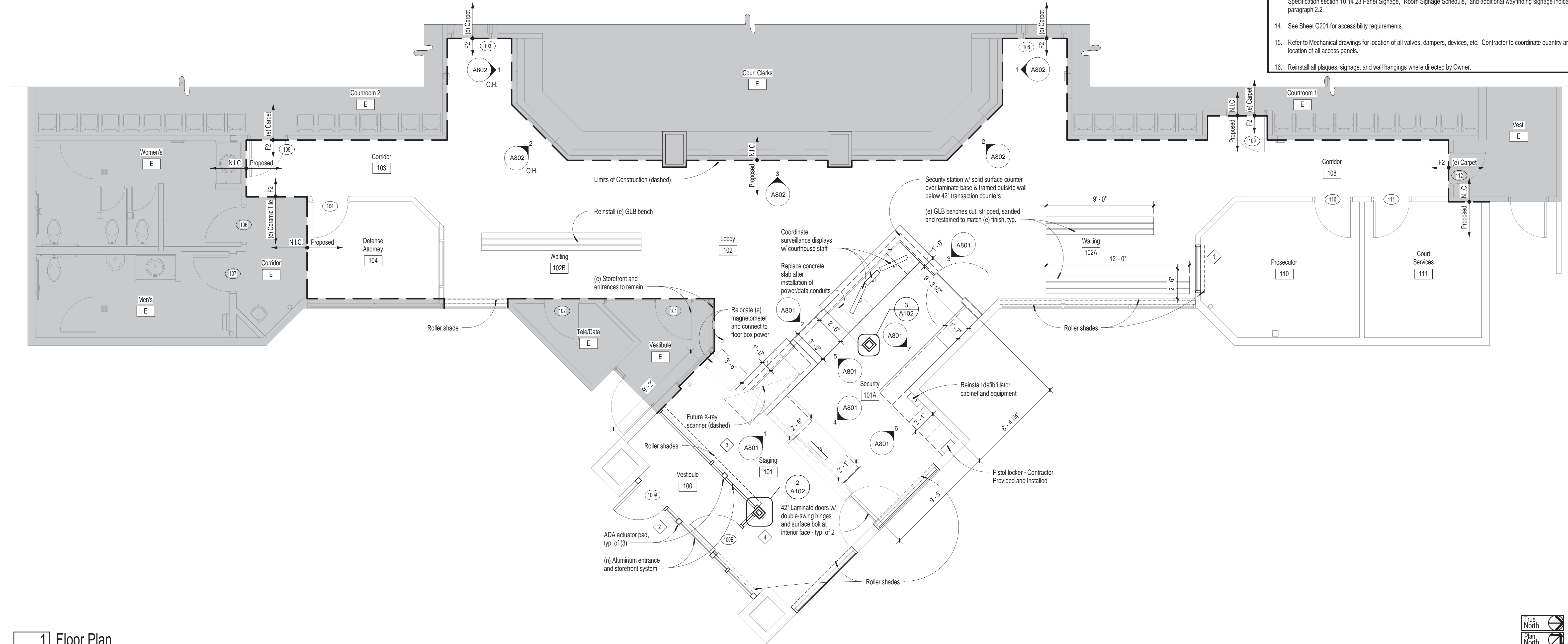
2 Furred Column Detail @ Staging 101
3" = 1'-0"

| No. | Room Name | Floor | Base | Walls | | | | Ceiling | Remarks |
|------|------------------|-------|------|-------|-------|-------|-------|---------|----------------------|
| | | | | North | East | South | West | | |
| | | | | | | | | | |
| 100 | Vestibule | F1 | B1 | W2 | W2 | W1/W2 | W1 | C1 | |
| 101 | Staging | F2 | B1 | - | W1 | W1/W2 | W1/W2 | C1 | |
| 101A | Security | F2 | B1 | W1 | W1 | - | - | C1/C2 | |
| 102 | Lobby | F2 | B1 | - | W1/W2 | - | W1 | C1/C2 | |
| 102A | Waiting | F2 | B1 | W1 | W1/W2 | - | W1 | C1/C2 | |
| 102B | Waiting | F2 | B1 | - | W1/W2 | W1 | W1 | C1/C2 | |
| 103 | Corridor | F2 | B1 | - | W1 | W1 | W1 | C1/C2 | |
| 104 | Defense Attorney | F2 | B1 | E | E | E | E | E | Carpet and Base only |
| 108 | Corridor | F2 | B1 | W1 | W1 | - | W1 | C1/C2 | |
| 110 | Prosecutor | F2 | B1 | E | E | W1 | E | E | |
| 111 | Court Services | F2 | B1 | E | E | E | E | E | Carpet and Base only |

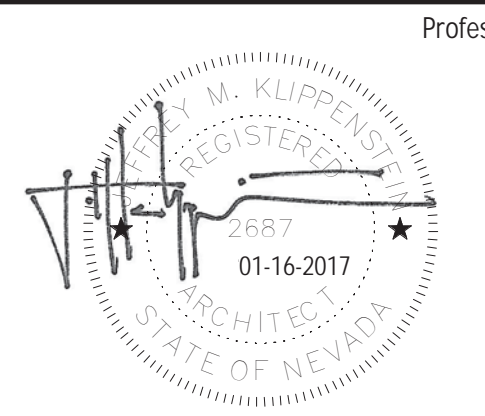
| Finish Materials | |
|-------------------------------|----------------------------|
| Floor Finish: | Base Finish: |
| F1 Walk Off Carpet Tile | B1 Coved Rubber Base |
| F2 Carpet Tile | E Existing to Remain |
| Wall Finish: | Ceiling Finish: |
| W1 Gypsum Board - Paint | C1 Gypsum Board - Paint |
| W2 Aluminum Framed Storefront | C2 Acoustic Ceiling Panels |
| E Existing to Remain | E Existing to Remain |

| Wall Legend | |
|-------------|--|
| | Existing masonry wall w/ plaster finish where exposed and furred interior face |
| | Existing interior metal stud wall |
| | Low partition wall |

- ### Sheet Notes
- All door locations in gypsum board partitions not dimensioned will be 3" from the studs of perpendicular wall to door edge (U.N.O.).
 - All dimensions are from face-of-stud, face of CMU, or center of framed opening, unless noted otherwise.
 - Provide 6" wide, 16 gauge flat strap backing behind all fixtures and wall mounted accessories. This includes cabinets and any other items that are wall mounted. Backing shall span a minimum of three studs and be connected to each stud with a minimum of two screws.
 - Refer to Mechanical and Electrical plans for equipment related to those disciplines. All required equipment not necessarily noted on this sheet.
 - Openings, pockets, etc. shall not be placed in slabs, beams, columns, walls, etc., unless specifically detailed on the drawings.
 - Provide a rubber-vinyl reducer or transition trim at all intersections of carpet and resilient tile, carpet and vinyl sheet goods, or at all edges of carpet that abut a raised or lowered surface of dissimilar material. Note: Provide replacement transitions or reducers only where removal of existing flooring is not required for transition or reducer trim replacement.
 - There should be no surface mounted conduit. All conduit to be concealed.
 - Sand, grind, and patch (e) concrete floor as required to accommodate new construction. Install leveling compound as required.
 - Where new gypsum board walls abut existing CMU or concrete walls, scribe to fit tightly and caulk.
 - Repair and repaint the entire wall where alteration work is performed, U.N.O. Paint color to match (e) walls and areas adjacent.
 - All touch up and new painting will be as follows:
Bottom coat: Latex primer
Intermediate coat and top coat: Acrylic Latex Enamel
Sheen shall match existing adjacent surfaces.
Contractor to coordinate paint manufacturer with Owner to match (e) maintenance paint stock.
 - Texture all existing gypsum board walls to match texture of new walls where noted.
 - Room Signage: Upon acceptance of Bid Alternate #1, provide room signage adjacent to all doors and as identified in Specification section 10 14 23 Panel Signage, "Room Signage Schedule," and additional wayfinding signage indicated in paragraph 2.2.
 - See Sheet G201 for accessibility requirements.
 - Refer to Mechanical drawings for location of all valves, dampers, devices, etc. Contractor to coordinate quantity and location of all access panels.
 - Reinstall all plaques, signage, and wall hangings where directed by Owner.



1 Floor Plan
1/4" = 1'-0"



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

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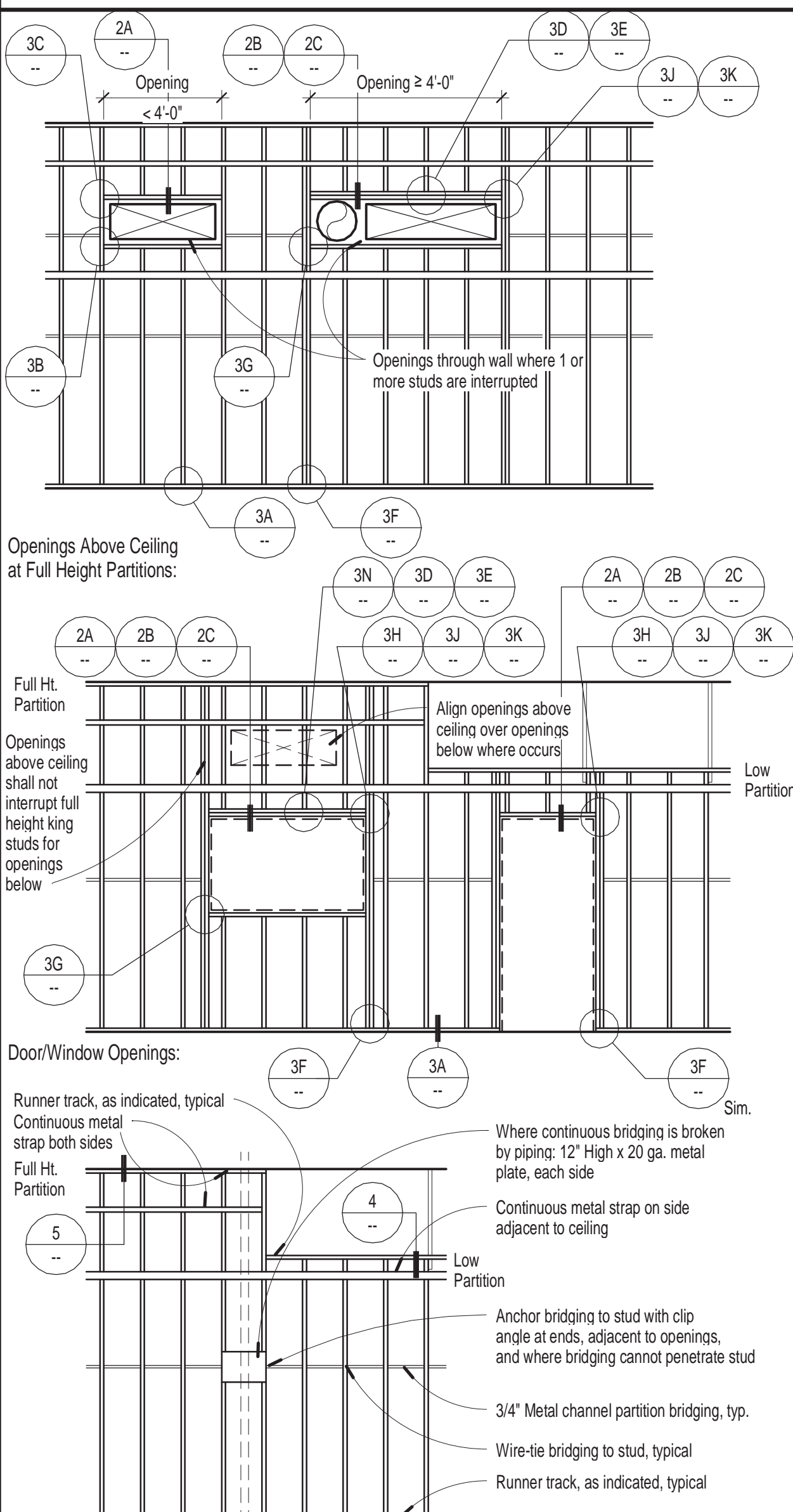
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Floor Plan
January 16, 2017
H+K Project No: 1628
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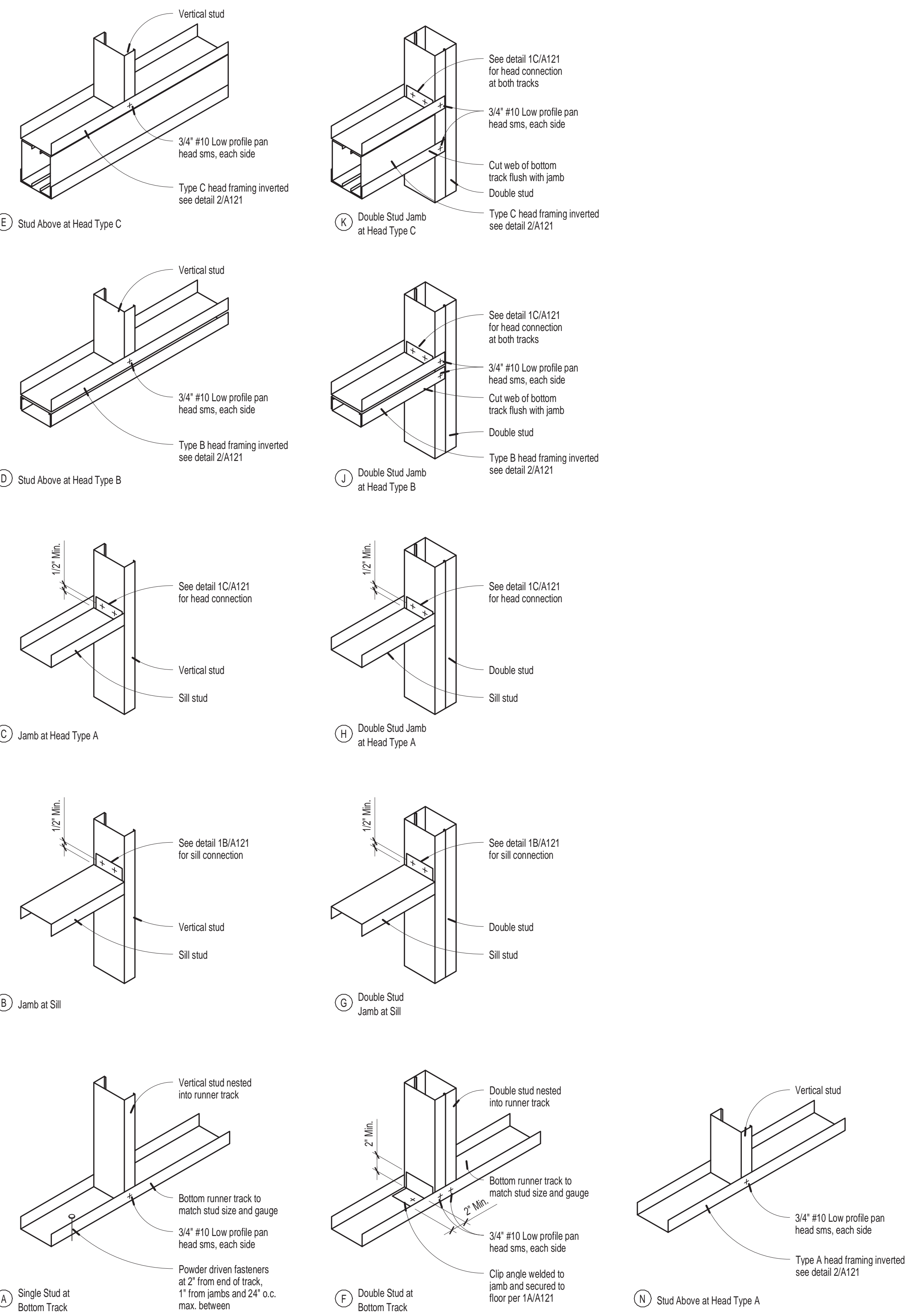
Metal Stud Framing Notes

- The purpose of this sheet is to describe typical metal stud framing connections, but is not intended to show specific detail conditions. Other drawings in the Construction Document set show specific conditions and may have additional requirements to those outlined on this sheet. Details on this sheet are shown to illustrate typical conditions and may thus not all occur within the set. This information should be applied to all applicable locations throughout the entire set of Construction Documents.
- See Wall Types for metal stud type used, and Floor Plans for locations of those wall types.
- Type of runner track utilized shall match type of stud size and gauge as indicated for each Wall Type.
- Suspended metal stud framing occurs where:
 - Framing at head of opening cannot span between floor supported studs at each end due to interruption by structural member.
 - At locations isolated within ceilings where no adjacent floor supported framing occurs (see Reflected Ceiling Plans).
 - Length of span at head of opening is greater than 12'-0".
- Use of powder driven fasteners:
 - For applications shown on this sheet, powder driven fasteners shall be 0.145" min. shank diameter by 1-1/4" min. length with 5/16" min. steel washer unless larger fastener is noted.
 - For applications shown by the details on this sheet, powder driven fasteners shall only be utilized for attachment to concrete.
 - Powder driven fasteners may only be used where the depth of concrete exceeds three times the penetration depth of the fastener and there is at least 1-1/2" of concrete cover measured laterally in all directions from fastener. Where adequate concrete does not occur, use #10 sheet metal screws to attach to metal decking.



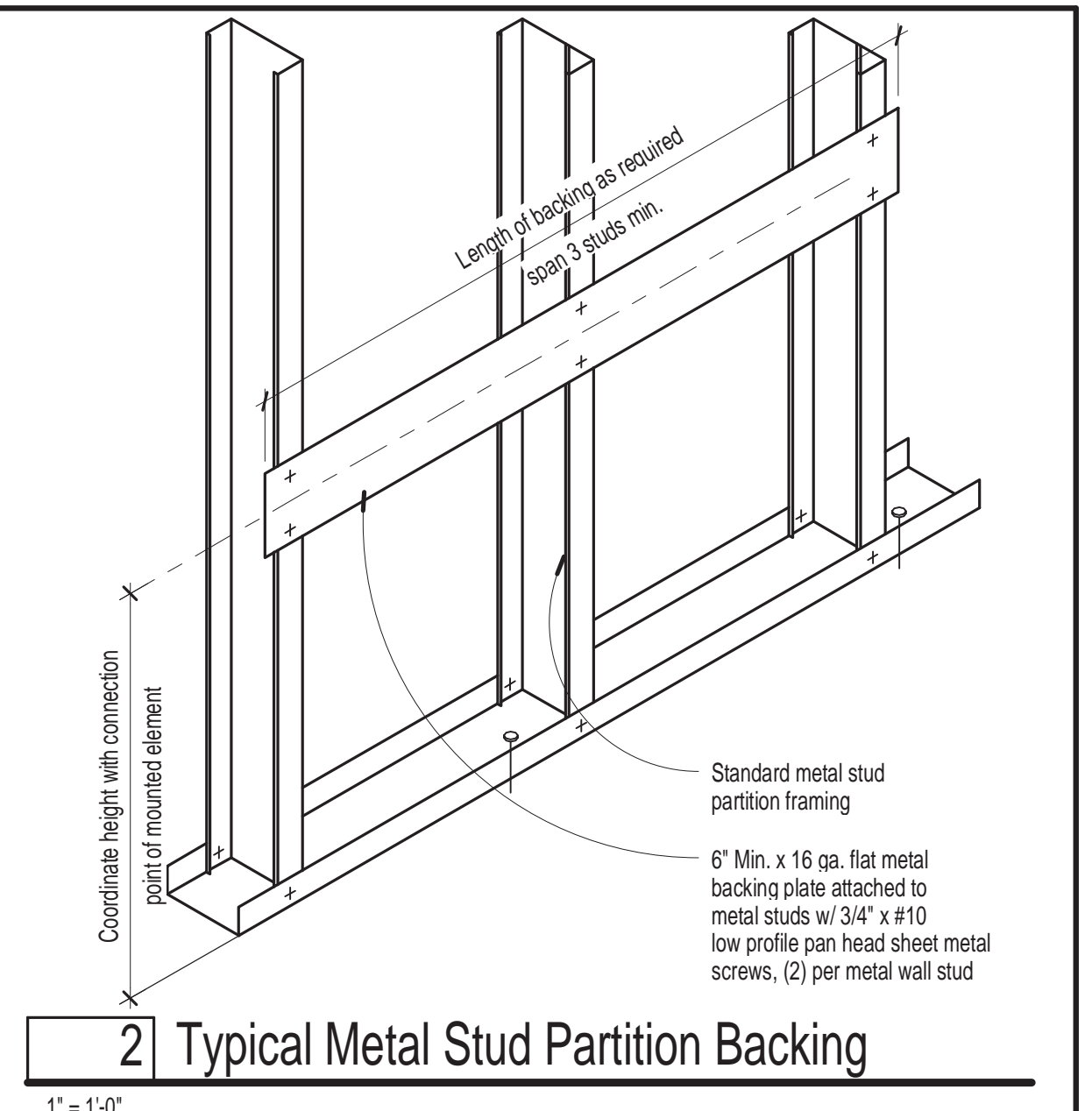
4 Typical Framing Elevations

1/4" = 1'-0"



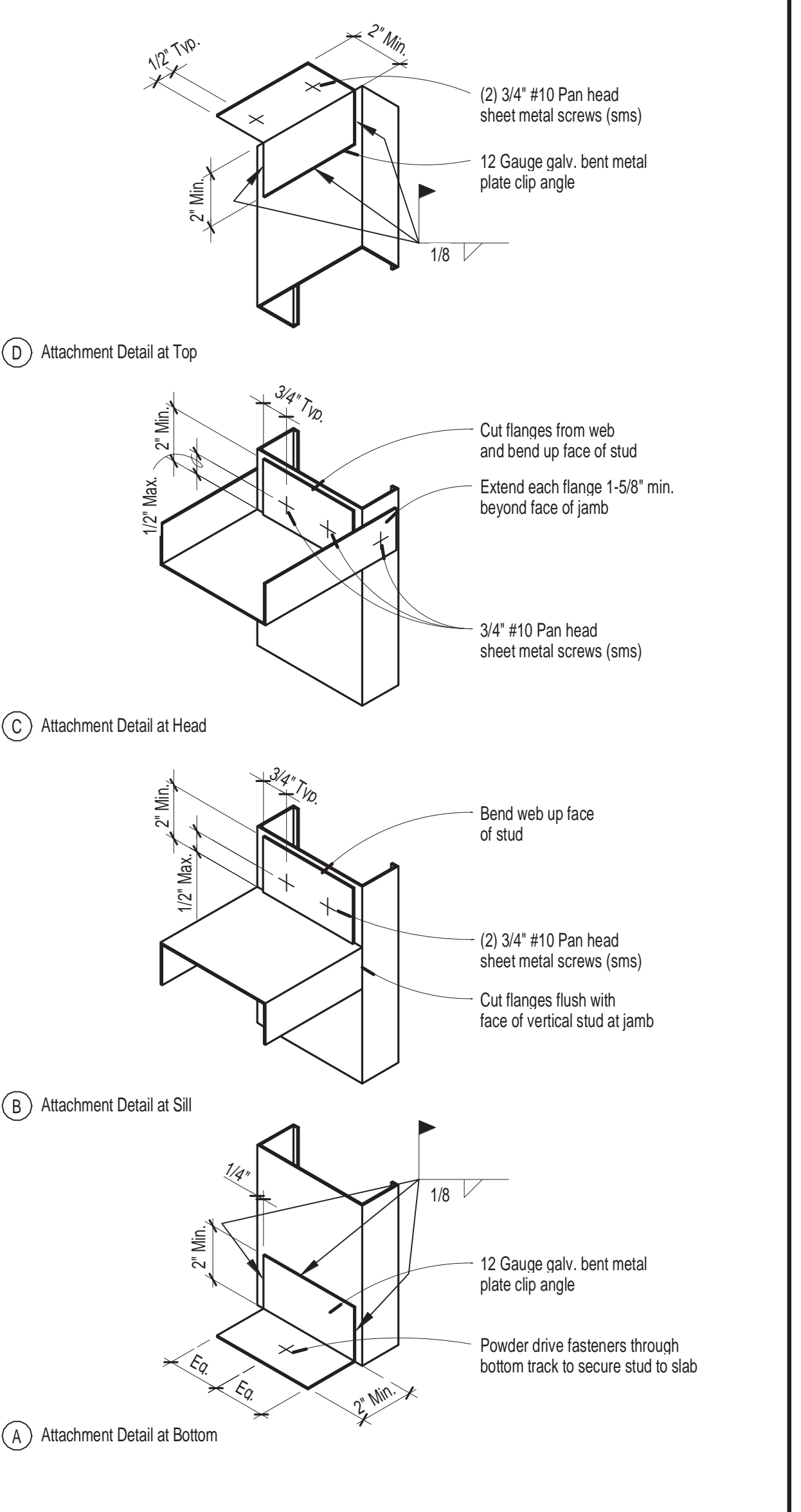
3 Typical Metal Stud Partition Framing

1" = 1'-0"



2 Typical Metal Stud Partition Backing

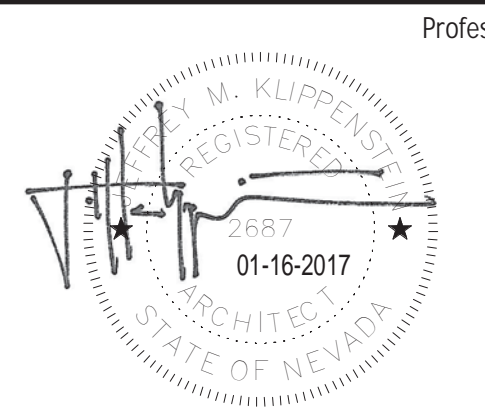
1" = 1'-0"



1 Metal Stud Jamb Connection at Openings

1" = 1'-0"

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**Sparks Municipal Court
 Security Entrance Remodel**
 1450 C Street
 Sparks, Nevada 89431

Typical Framing Details

January 16, 2017
 H+K Project No: 1628

A121



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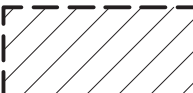
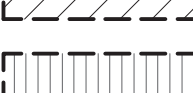

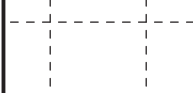
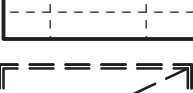
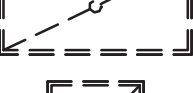
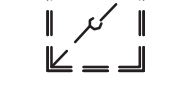
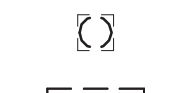
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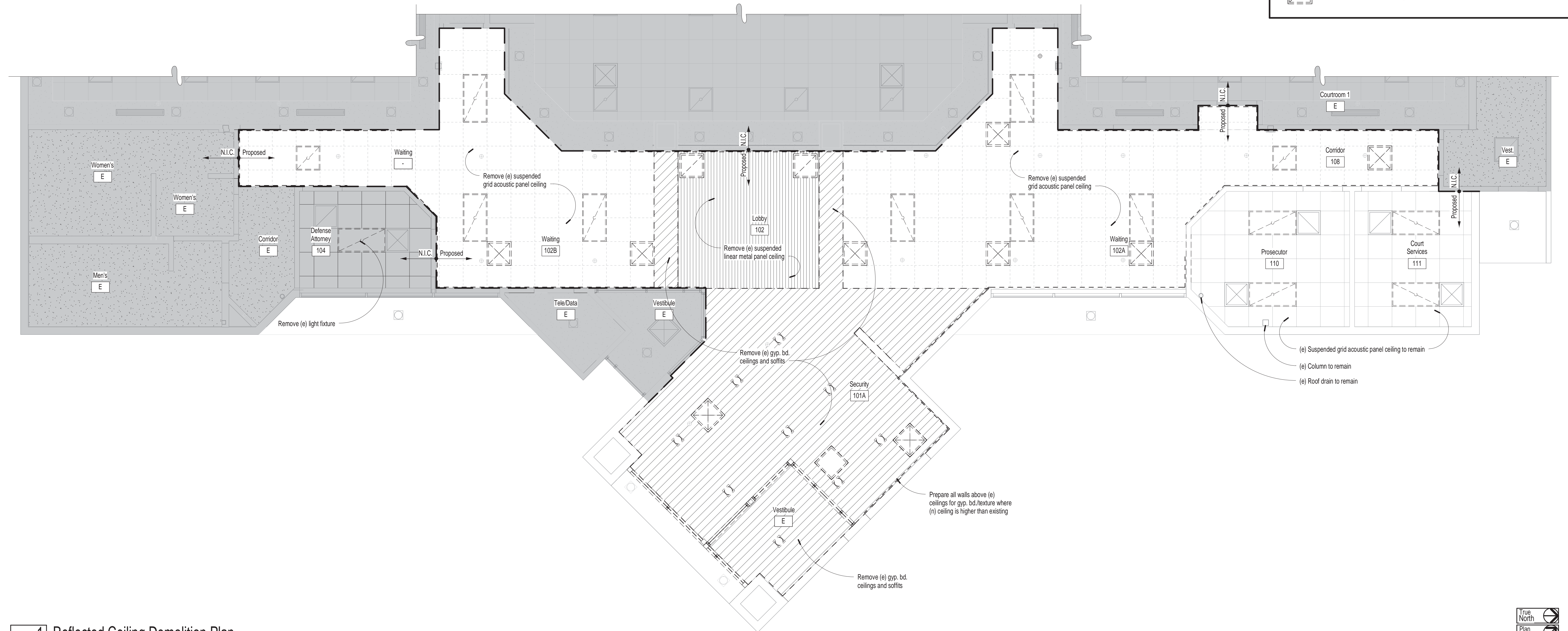
Ceiling Demolition Notes

- For the purpose of Architectural work, all items not shown to be removed or altered on this sheet shall remain in their existing condition. This pertains to all equipment and other consultant's work. See other disciplines for additional demolition and alterations to utilities. Notify the Architect of any components which vary from those shown on the drawings.
- In the event that demolition work creates a condition where existing spaces are open to the weather, the Contractor shall protect the building from the effects of exposure from exterior conditions. These conditions shall be weather-tight at the conclusion of work each day. At the conclusion of his work in that area the Contractor is to replace all removed components to a weather-tight condition to match adjacent finishes.
- There will be selective demolition for Structural, Electrical and Mechanical components. This demolition is to facilitate the replacement and/or new installation of Structural, Electrical and Mechanical components. Although this demolition may not appear specifically on this sheet, the Contractor shall include in his bid all demolition work for the removal of required building materials necessary for the installation of these components.
- See Selective Demolition, Cutting and Patching sections in Project Manual for additional demolition requirements.
- Protect adjacent surfaces to remain from damage. Contractor is to repair or replace all finishes that are damaged or removed due to the installation or removal of any materials, fixtures, accessories or construction noted on these drawings. Repaired or replaced finishes shall match adjacent existing surfaces.
- Revise mechanical and fire sprinkler systems as required. Contractor to field verify extent of work required.

7. Definitions:
 Remove: Detach items from existing construction and legally dispose of them off-site, unless indicated to be removed and salvaged or removed and reinstalled.
 Remove and salvage: Detach items from existing construction and deliver them to the Owner. All removed ceiling panels, plumbing fixtures, and light fixtures are to be removed and salvaged.
 Remove and reinstall: Detach items from existing construction, prepare them for reuse, and reinstall them where indicated.
 Existing to remain: Existing items of construction that are not to be removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled.

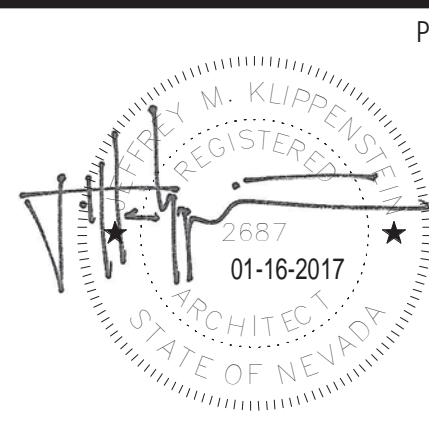
Ceiling Demolition Legend

-  (e) Ceiling to remain - No work in shaded area.
-  (e) Ceiling system and finishes to remain
-  (e) Gypsum board ceiling, soffit and soffit framing to be removed
-  (e) Linear metal panel ceiling to be removed
-  (e) 2' x 2' Acoustical Lay-in Ceiling System and suspended Grid to be removed
-  (e) 2x4 Fluorescent light fixture to be removed - see Electrical for additional notes and requirements
-  (e) 2x2 Fluorescent light fixture to be removed - see Electrical for additional notes and requirements
-  (e) Recessed can light fixture to be removed - see Electrical for additional notes and requirements
-  (e) Supply air diffuser to be removed - see Mechanical for additional notes and requirements
-  (e) Return air diffuser to be removed - see Mechanical for additional notes and requirements



1 Reflected Ceiling Demolition Plan

1/4" = 1'-0"



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**Sparks Municipal Court
 Security Entrance Remodel**

1450 C Street
 Sparks, Nevada 89431

Reflected Ceiling
 Demolition Plan

January 16, 2017
 H+K Project No: 1628



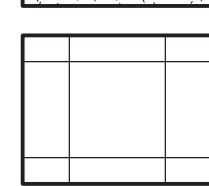
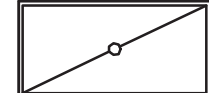




A601

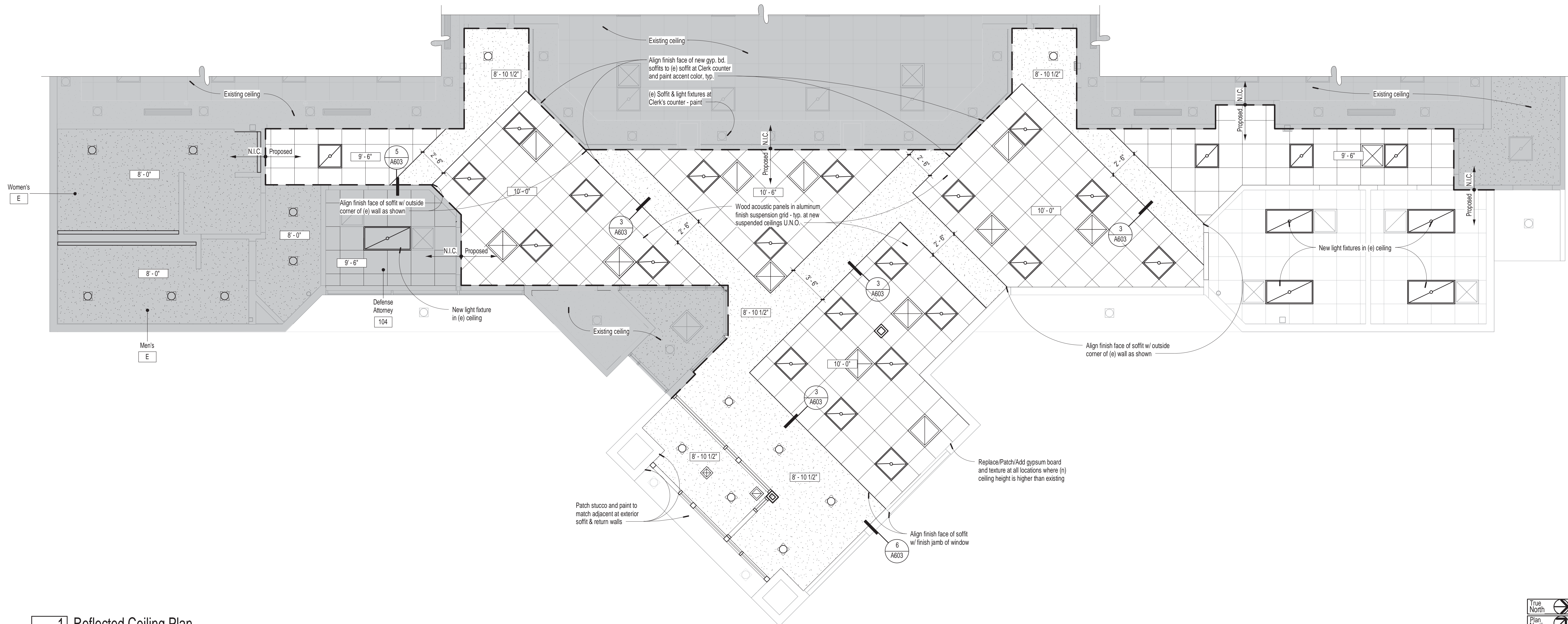


Ceiling Plan Notes

1. Refer to Mechanical and Electrical plans for location of mechanical equipment, lighting, and other equipment. All mechanical and/or electrical equipment items are not indicated on this sheet.
2. Center all devices 12" x 12" from suspended ceiling grid intersections.
3. All ceiling elevations are above finish floor at point of reference unless noted otherwise.
4. See Sheet A603 for typical seismic bracing details.
5. All gypsum board ceilings lower than bottom of structure (B.O.S.) may be suspended from structure above or framed at the Contractor's discretion. See Sheet A603 for typical details.
6. Refer to Mechanical drawings for location of all valves, dampers, devices, etc. Access panels shall be provided at all MEP items requiring access.

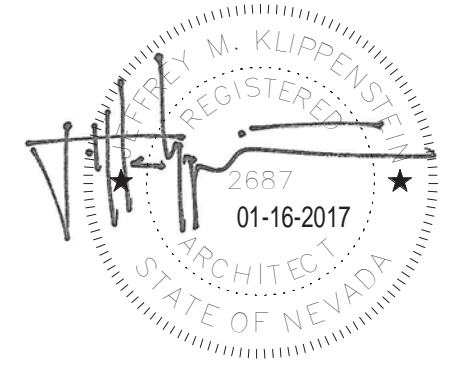
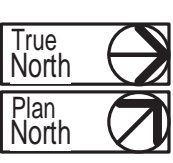
Ceiling Legend

| | |
|---|---|
|  | (e) Ceiling system and finishes to remain. Touch up and repair at ceilings affected by Alteration construction. |
|  | Gypsum board ceiling, see Specifications for requirements. |
|  | 2' x 2' Acoustic panels in suspended grid. Grid and tile layout as indicated on the Reflected Ceiling Plan. See Specifications for requirements of suspended grid and acoustic lay-in panels and see Finish Schedule for ceiling types. In areas larger than 144 SF see detail 1/A603 for seismic bracing detail. |
| 0'-0" | Indicates the ceiling height, see Plan. Ceiling height above finish floor. |
|  | 2x4 LED light fixture - see Electrical for size and type |
|  | 2x2 LED light fixture - see Electrical for size and type |
|  | Recessed can light fixture - see Electrical for size and type |
|  | Supply air diffuser - See Mechanical for size and type |
|  | Return air diffuser - See Mechanical for size and type |



1 Reflected Ceiling Plan

1/4" = 1'-0"



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**Sparks Municipal Court
 Security Entrance Remodel**
 1450 C Street
 Sparks, Nevada 89431

Reflected Ceiling Plan

January 16, 2017
 H+K Project No: 1628

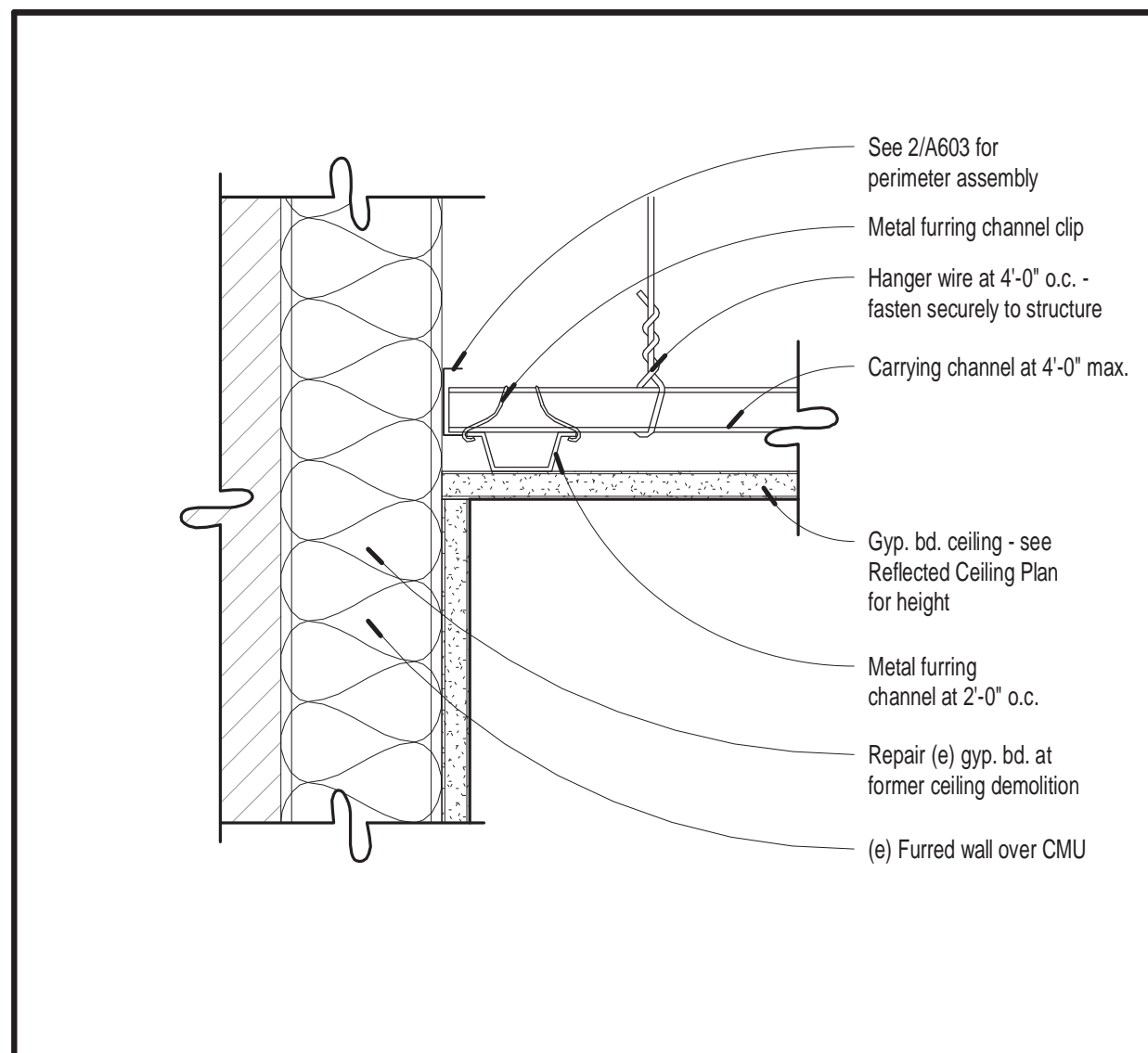
A602



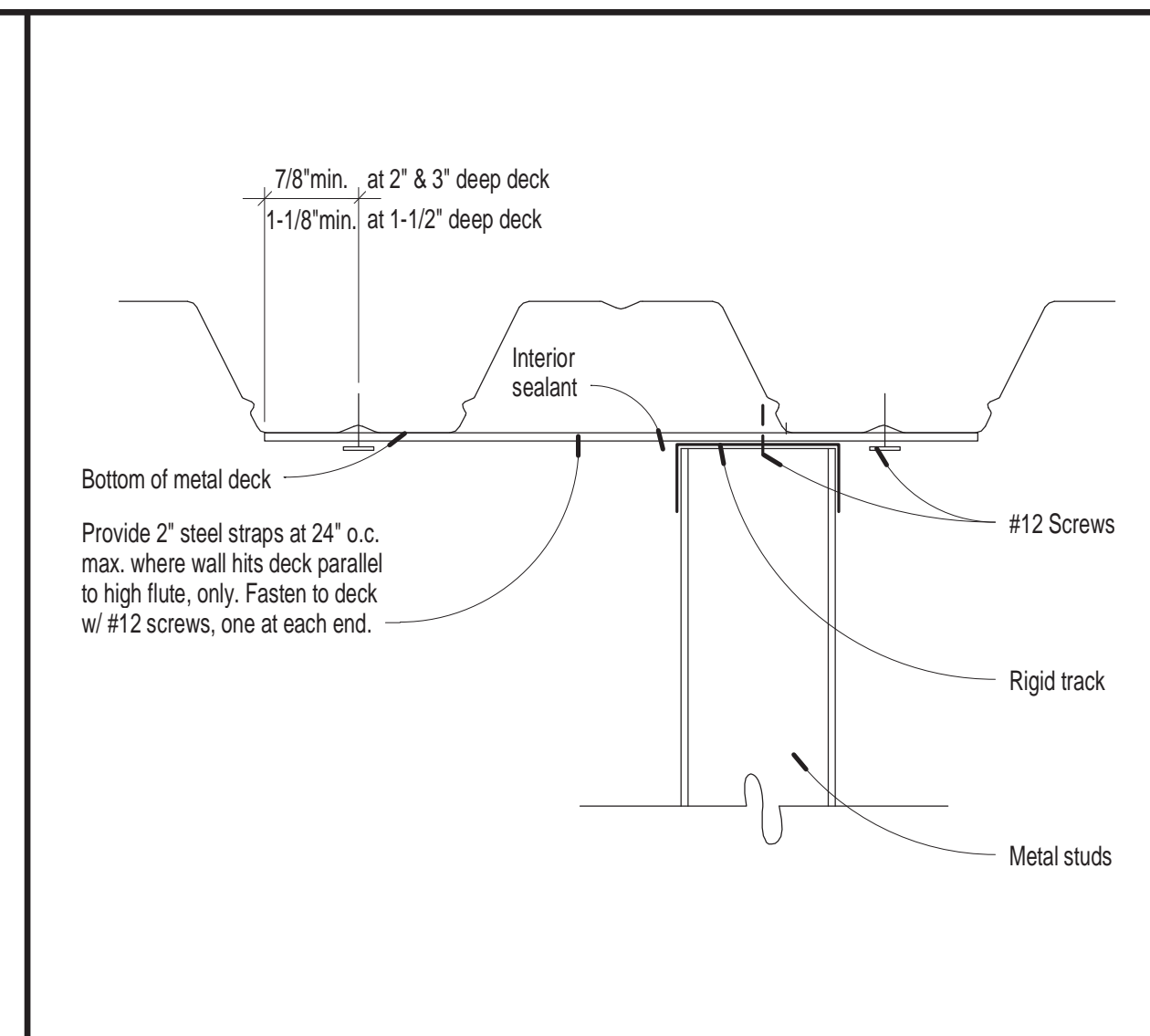
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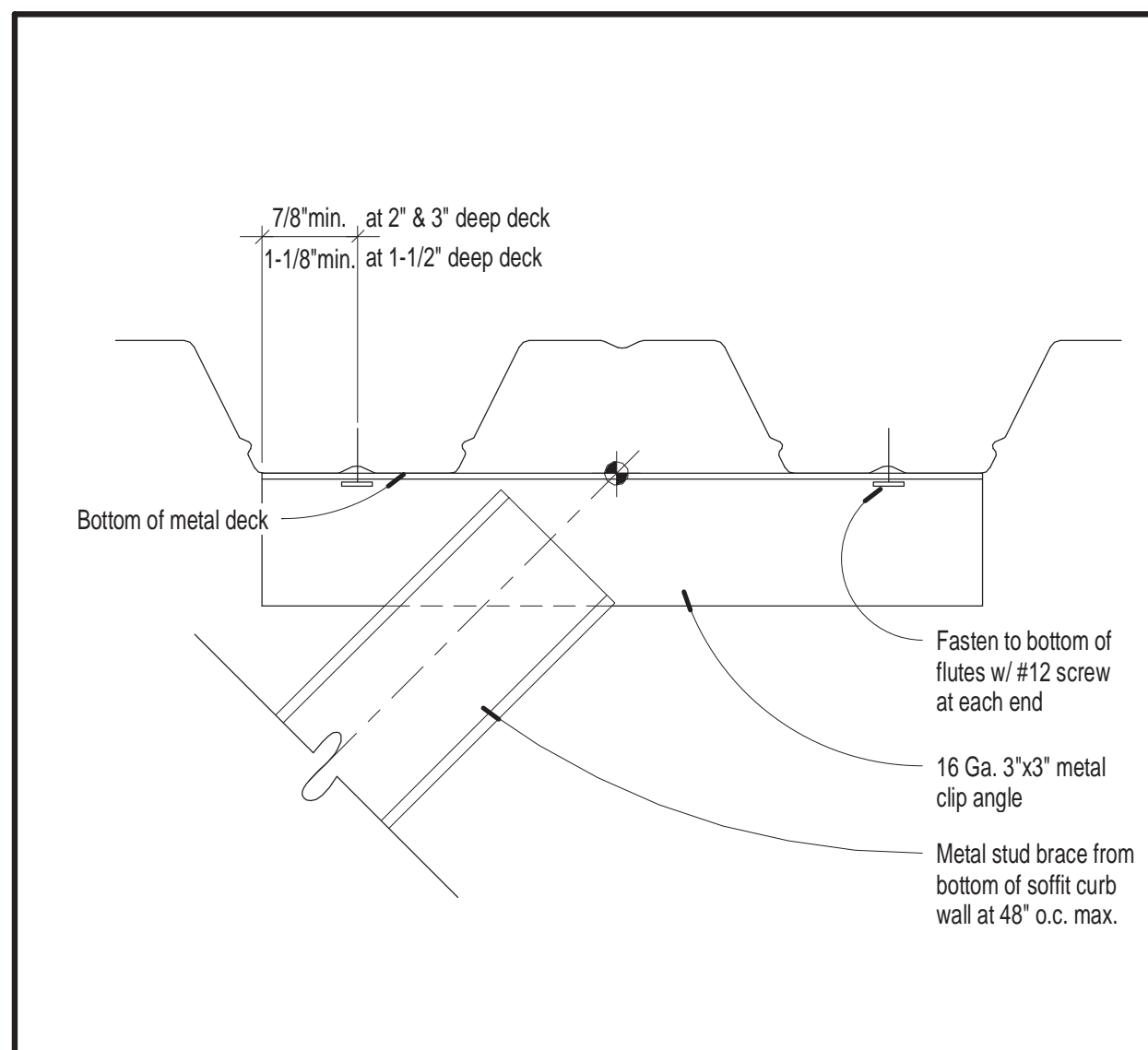
© Copyright H + K Architects



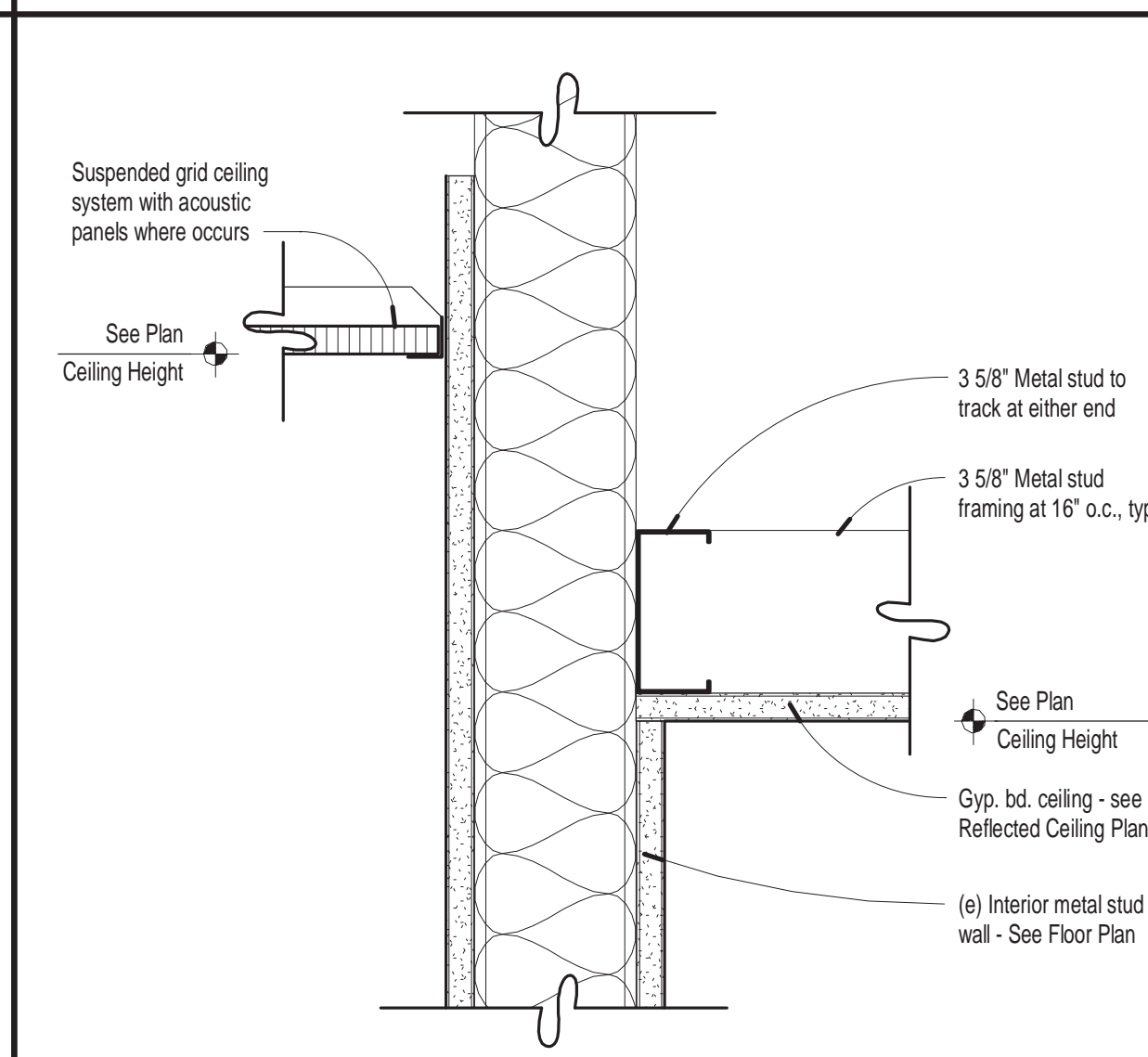
6 Detail at Suspended Gypsum Board Ceiling
3' = 1'-0"



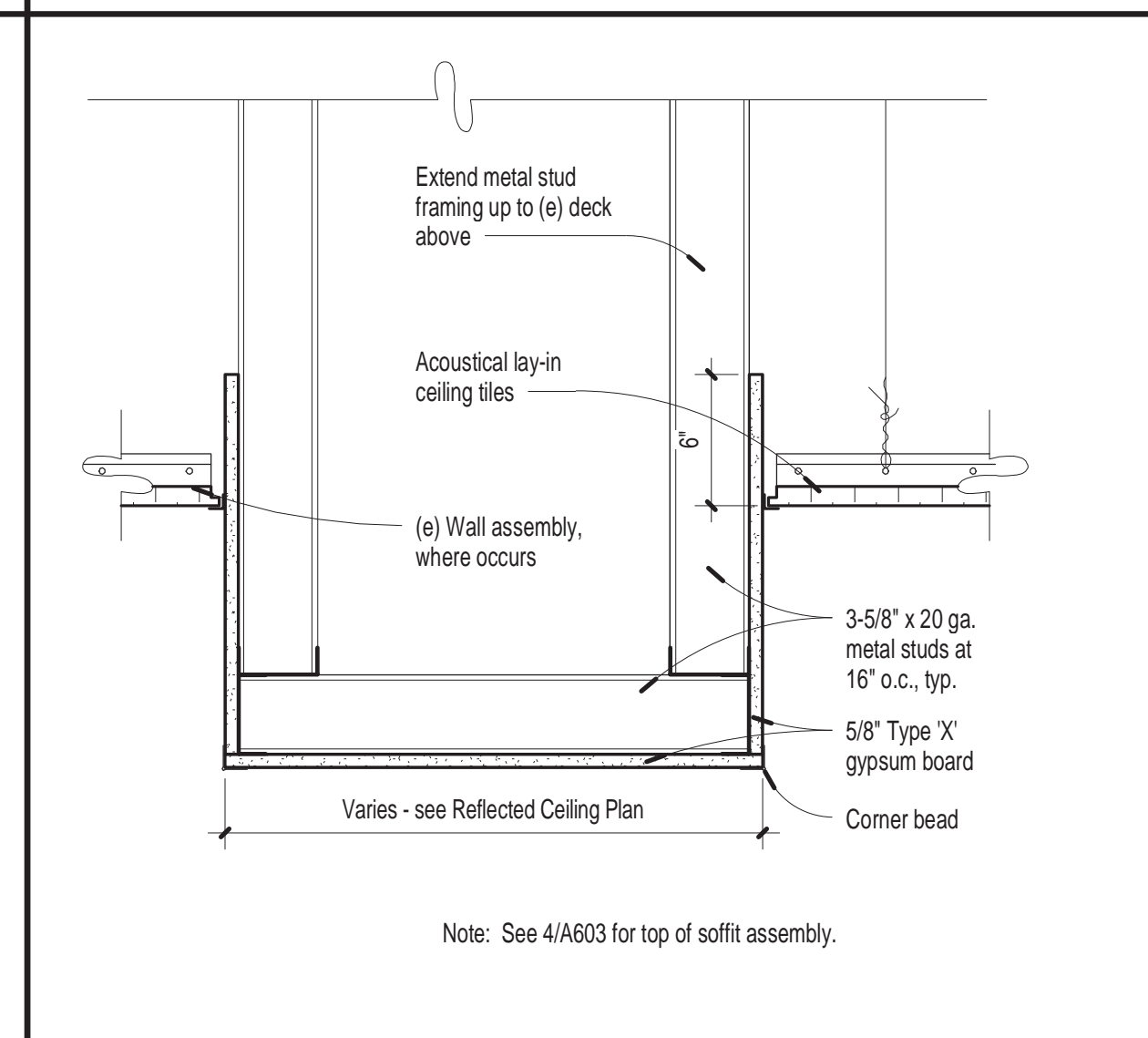
4 Top of Soffit at (e) Metal Deck
3' = 1'-0"



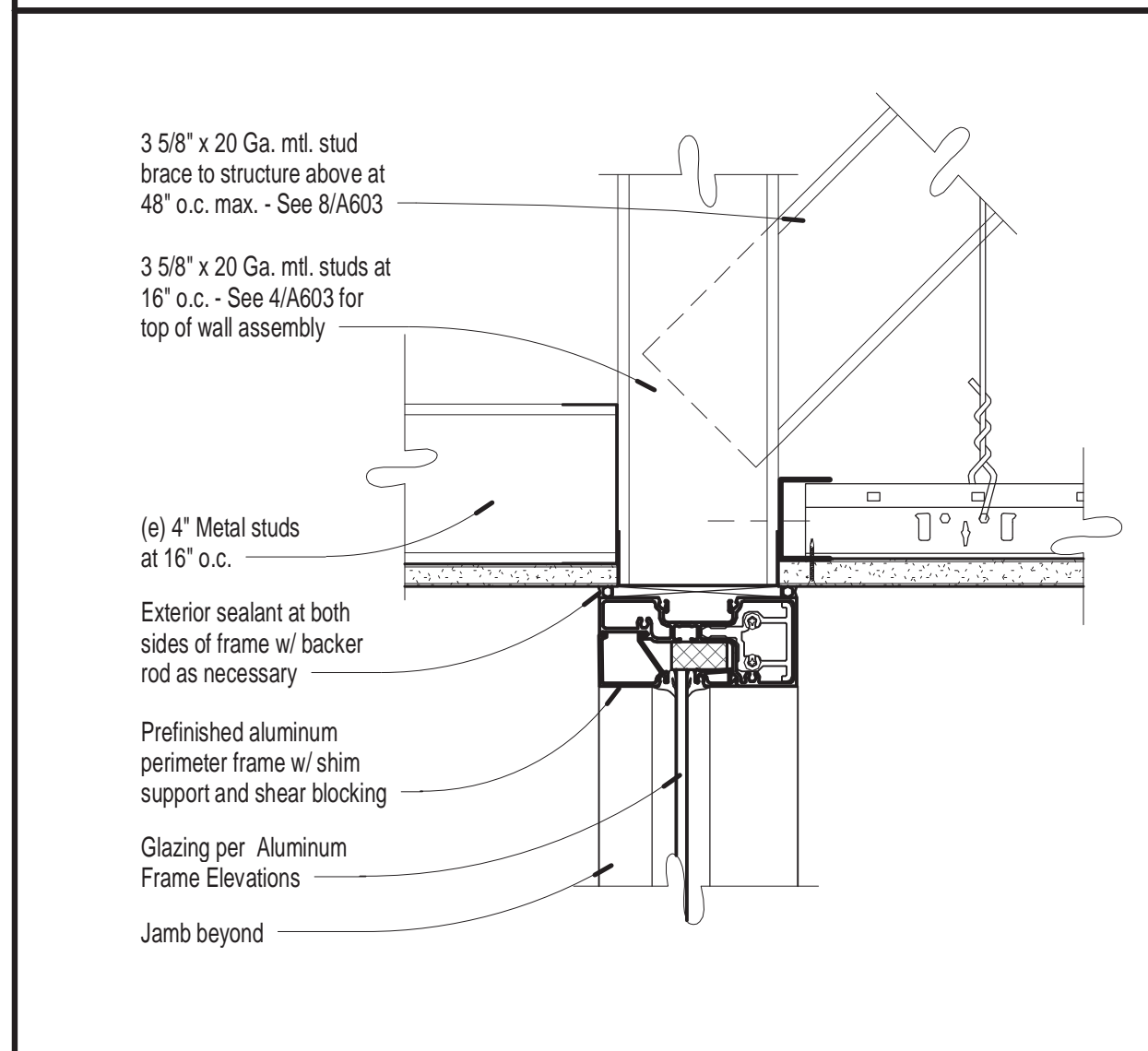
8 Metal Stud Wall Brace to Deck
3' = 1'-0"



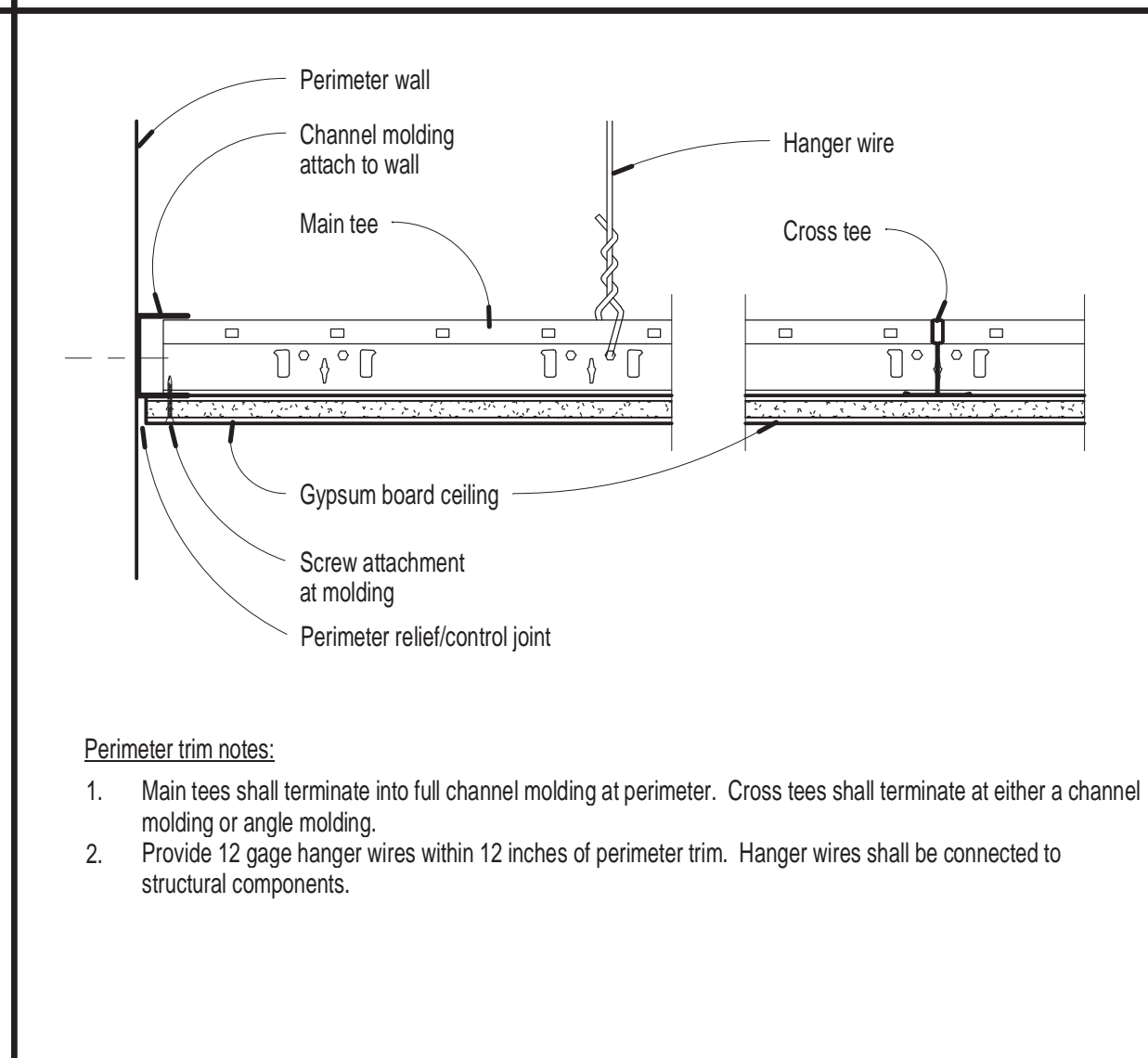
5 Detail at Framed Gypsum Board
3' = 1'-0"



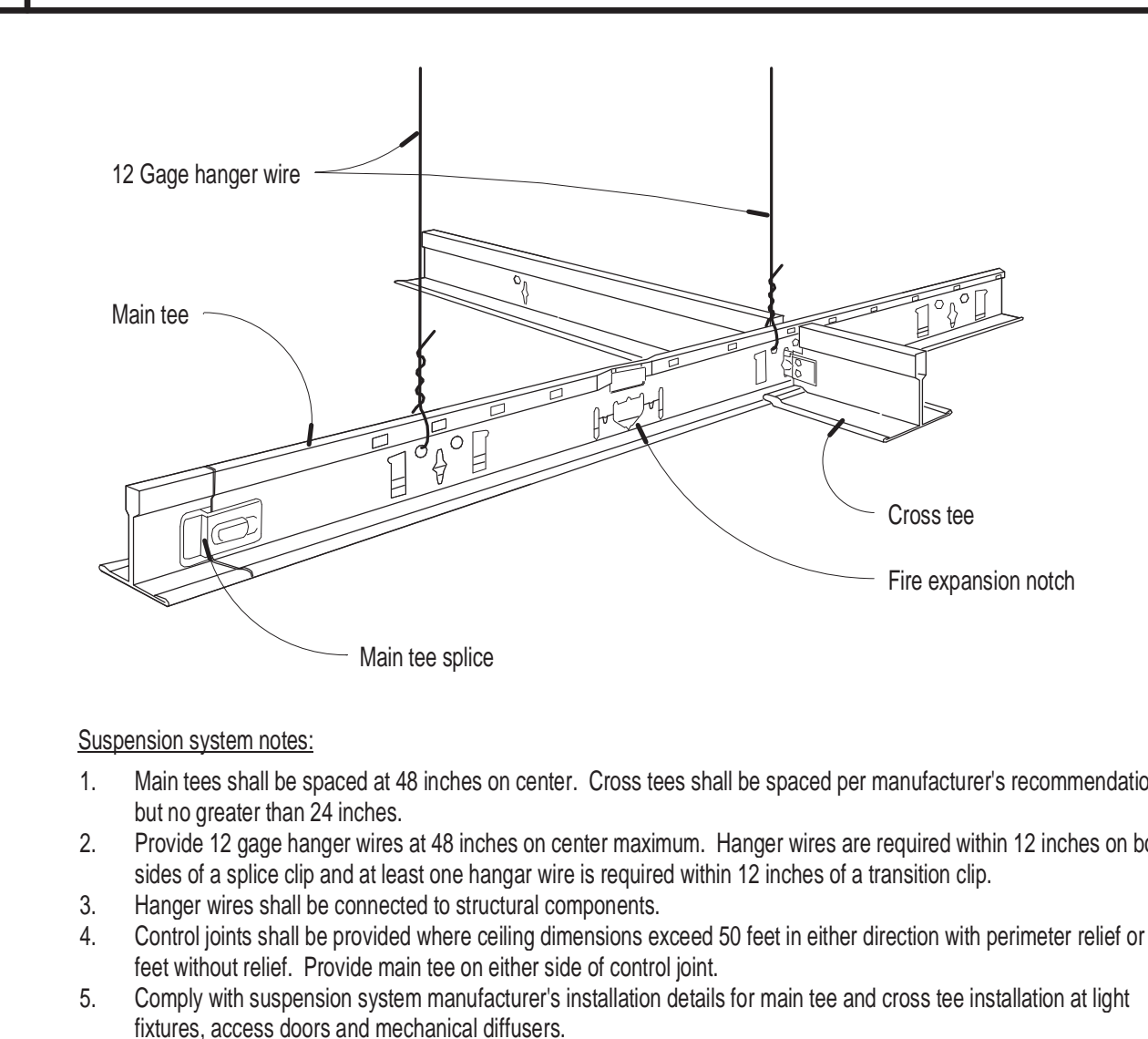
3 Typical Gypsum Board Soffit
1 1/2" = 1'-0"



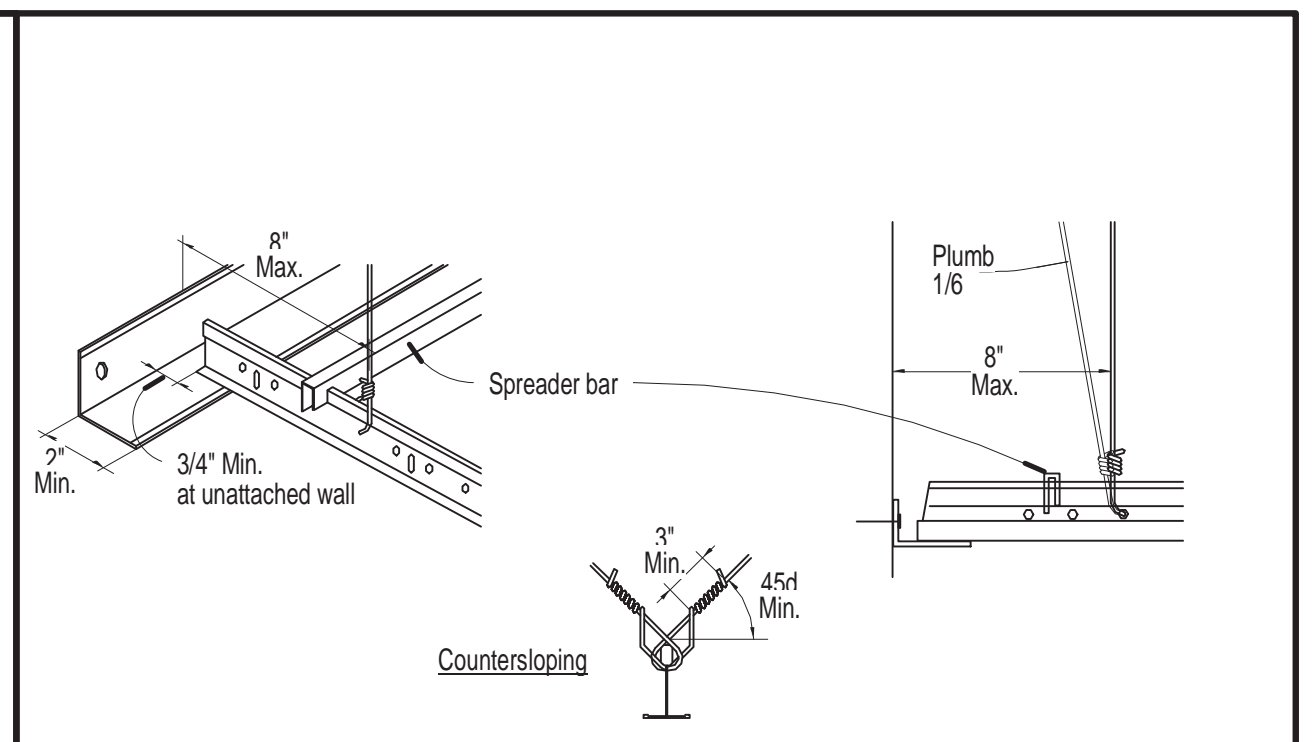
7 Interior Storefront Head
3' = 1'-0"



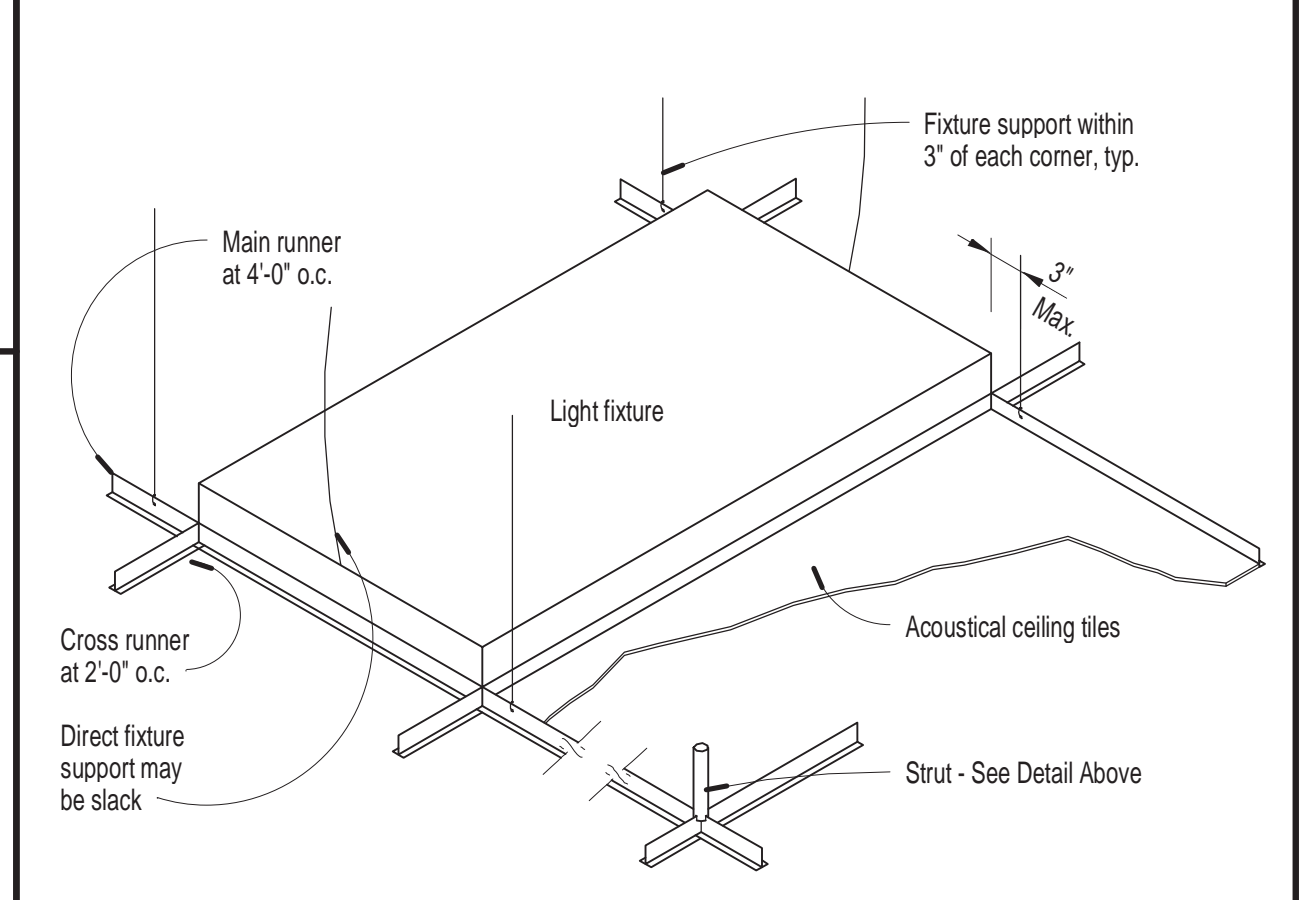
2 Suspended Gypsum Board Ceiling
3' = 1'-0"



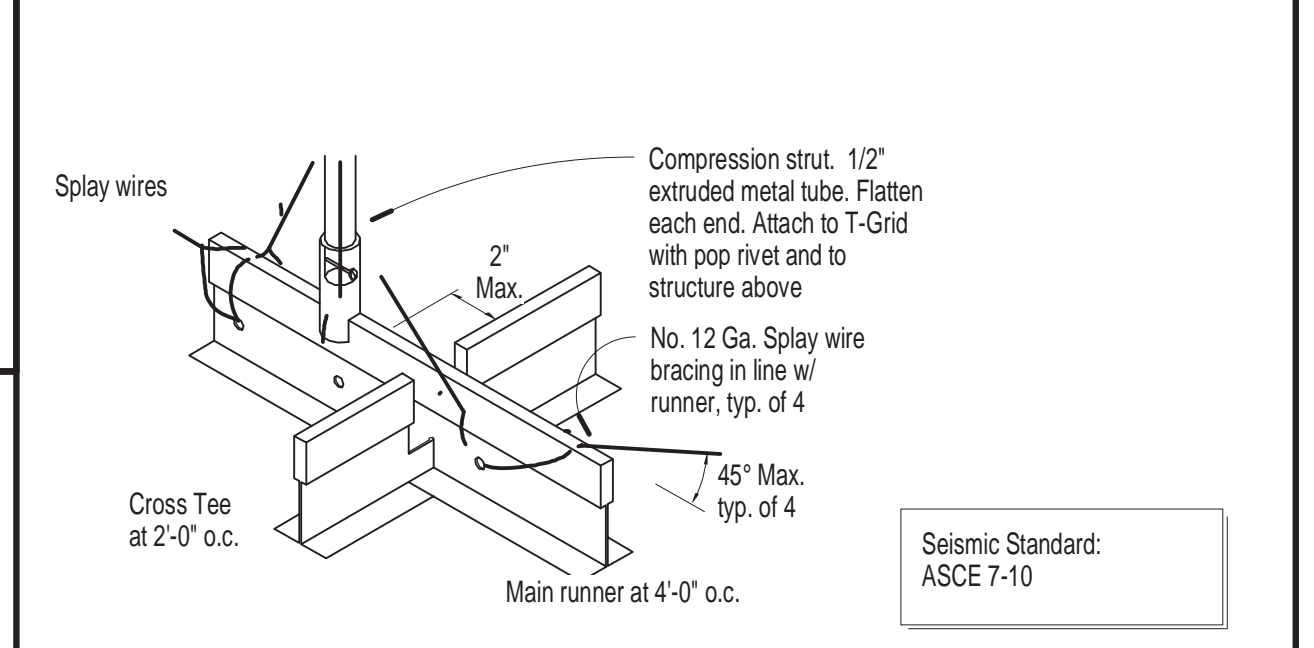
1 Suspended Clg. Seismic Bracing Requirements
3' = 1'-0"



- Perimeter Molding Requirements:**
1. Wall angle shall be attached to grid at two adjoining walls of a room and unattached to other two walls.
 2. Terminal ends of each main beam and cross tee must be supported within 8 inches of each wall with a perimeter wire.
 3. Provide spreader bar or other suitable system at unattached walls to maintain spacing of main beams and cross tees.



- Fixture and equipment suspension:**
1. Light Fixtures: All light fixtures shall be positively attached to the suspended ceiling system. Provide 12 gage hangers attached to the grid members within 3 inches of each corner of each fixture. Tandem fixtures may utilize common wires. Fixtures weighing less than 56 pounds shall have two (2) additional 12 gage hangers connected from the fixture housing to the structure above. These wires may be slack.
 2. Mechanical Equipment: Services weighing less than 20 pounds shall be positively attached to the ceiling suspension main runners or to cross runners with the same carrying capacity as the main runners. Services weighing more than 20 pounds but less than 56 pounds shall have an additional two (2) 12 gage hangers connected from the terminal or service to the ceiling system hangers or to the structure above. These wires may be slack.

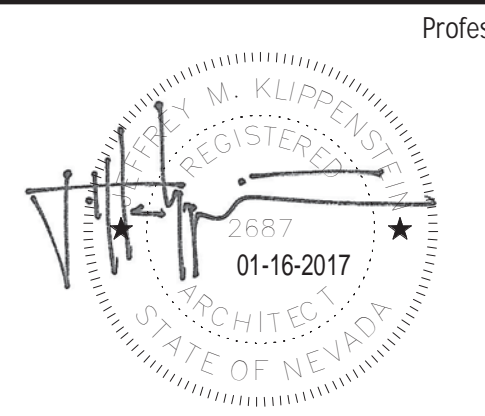


- Seismic Suspension Requirements:**
1. Ceiling area over 144 sq. ft. or rated ceiling assemblies over 96 square feet shall have splay wires installed at 12'-0" o.c. each way.
 2. Splay wire to be 12 gage steel wire attached to structure above and to grid with not less than four (4) light turns in 1-1/2".
 3. Vertical hanger wires shall be 12 gage spaced 4 feet on center or 10 gage spaced 5 feet on center and shall be attached to the suspension member and to the structure above with a minimum of three (3) turns.
 4. Hanger and perimeter wires must be plumb within 1 in 6 unless counter sloping wires are provided.
 5. Any connection device at the supporting construction shall be capable of carrying not less than 100 pounds.
 6. Bracing assemblies shall include four 12 gage wires secured to the main runner within 2 inches of the cross runner intersection and splayed 90 degrees from each other at an angle not exceeding 45 degrees from the plane of the ceiling. A strut fastened to the main runner shall be extended to and fastened to the structural members above. The strut shall be adequate to resist the vertical component induced by the bracing wires.
 7. Bracing assemblies shall be placed not more than 12 feet on center in all directions with the first point located not more than 6 feet from each perimeter wall.
 8. Bracing wires shall be attached to the grid and to structure in such manner that they can support a design load of not less than 200 pounds or the actual design load with safety factor of 2, whichever is greater.
 9. For essential facilities, hanger wire connections must be capable of carrying 200 pounds and bracing (splay) wires shall be capable of carrying 440 pounds, shot-in anchors in concrete are not permitted for bracing wires.
 10. Refer to notes above for perimeter molding conditions.
 11. Refer to notes above for suspension requirements at light fixtures and mechanical equipment.

1 Suspended Clg. Seismic Bracing Requirements
3' = 1'-0"

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Sparks Municipal Court Security Entrance Remodel
1450 C Street
Sparks, Nevada 89431

Ceiling Details

January 16, 2017
H+K Project No: 1628

A603



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| Door Number | DOORS | | | | | | | FRAME | | | DETAILS | | | | Label | Hardware Group | Comments | |
|-------------|-------|--------|------|----------|------|--------|-------------|----------|-------------|--------------|---------|--------|--------|---------|---------|----------------|----------|---|
| | Width | Height | Pair | Material | Type | Glass | Door Rating | Material | Frame Depth | Frame Rating | Elev. | Head | Strike | Hinge | | | | Sill |
| 100A | 3'-0" | 7'-0" | | AL | AFG | G2/G5* | -- | AL | 4 1/2" | -- | 2 | 5/A702 | 8/A702 | 9/A702 | 7/A702 | - | H1 | Coordinate power for door operator. No exposed conduit. |
| 100B | 3'-0" | 7'-0" | | AL | AFG | G4 | -- | AL | 4 1/2" | -- | 4 | 5/A702 | 8/A702 | 11/A702 | 10/A702 | - | H1 (Sim) | Coordinate power for door operator. No exposed conduit. |

Schedule + Frame Elevation Notes

- Contractor and subcontractors shall provide all required electrical service and equipment for complete installation of any hardware requiring electrical service even though they may not be specifically noted on the electrical drawings. All power and signal provisions for power door operators shall be concealed.
- Hardware locations shall be in accordance with current edition of ANSI/SDI A250.8 for steel doors. Contractor shall coordinate all door handing including all hardware provisions.
- Hardware supplier shall coordinate keying with Owner prior to submittal.
- All frame sizes in Door Schedule indicate overall frame width.
- Contractor to coordinate door handing per floor plans. Frame detail references do not indicate handing or orientation. Actual installations may be opposite hand, mirrored, or both. Detail references indicated for one frame condition are considered the same for all other similar conditions on that frame elevation.
- See frame elevations for additional details.
- Contractor to verify existing dimensions for openings and coordinate required frame dimensions on submitted shop drawings. This coordination includes throat widths for all hollow metal frames.
- All doors not scheduled are to remain in place. Contractor to protect existing doors, windows, and louvers from damage during entire extent of construction activities.
- Contractor shall paint entire hollow metal frame of all existing doors and windows about the limits of construction.
- All numbered doors shall receive signage regardless of inclusion on Door Schedule. Refer to Specification section 101423 - 3.4 for signage requirements at doors.

Material Legend

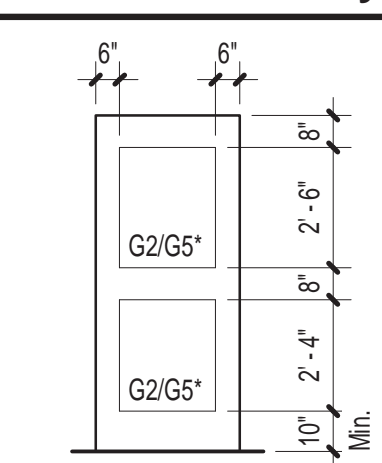
| | |
|---|----------------------------------|
| Glazing Legend: | Material and Type Legend: |
| G1 1" Insulated glass | AL Aluminum |
| G2 1" Insulated & tempered | |
| G3 1/4" Clear float glass | |
| G4 1/4" Clear tempered glass | |
| G5 Ballistic Laminare (add at Bid Alternate #2) | |

Hardware Groups

| Qty. | Item | Description | Finish | Manufacturer |
|---------------------------|--------------------|--------------------|--------|--------------|
| Group H1: Door 100A, 100B | | | | |
| 1 | Exit Device | 99NL | 626 | Von Duprin |
| 1 | IC Core | Keymark | 626 | Medeco |
| 1 | IC Rim Housing | 20-079 | 626 | Schlage |
| 1 | Auto Door Operator | Per Section 087111 | | |
| 3 | Auto Door Actuator | Per Section 087111 | | |
| 2 | Pivot Hinges | Per Section 084113 | | |
| 1 set | Weatherstrip | Per Section 084113 | | |
| 1 | Threshold | A26 | 628 | NGP |
| 1 | Door Sweep | Per Section 084113 | | |

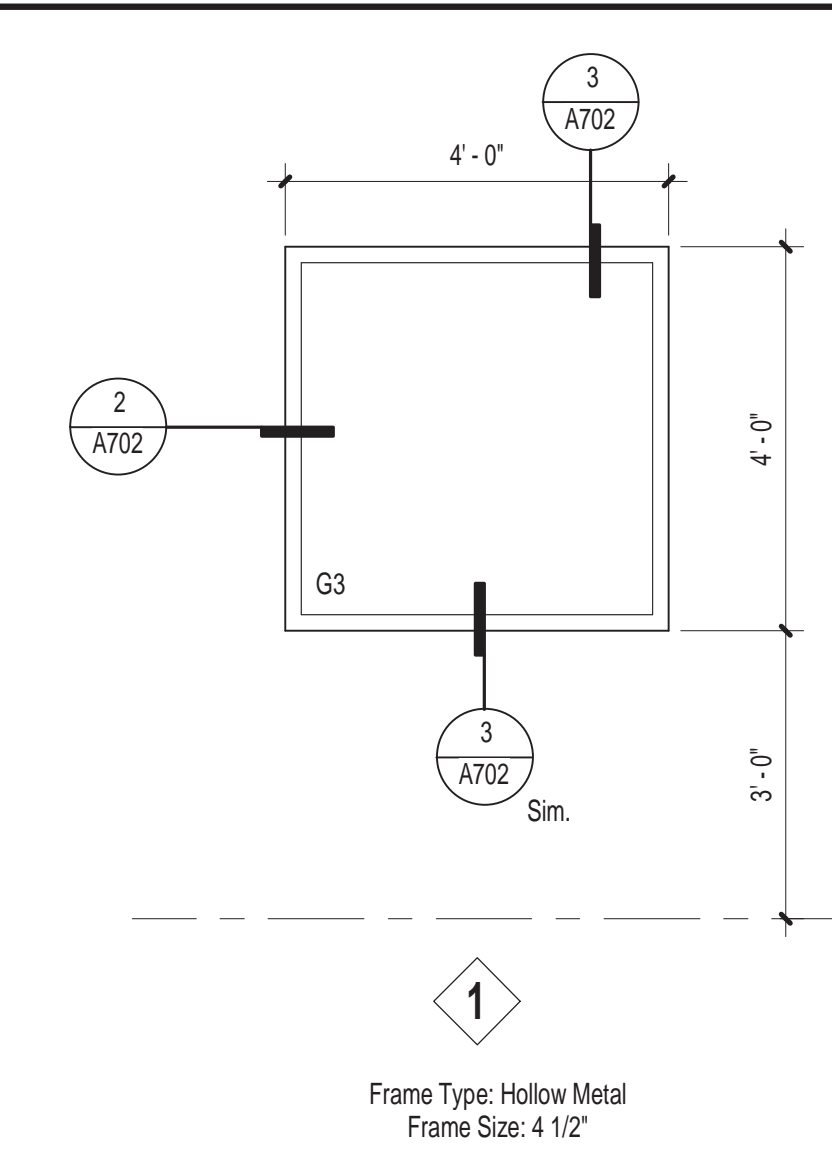
Note: No door sweep required at H1 (Sim.)

Door and Frame Types

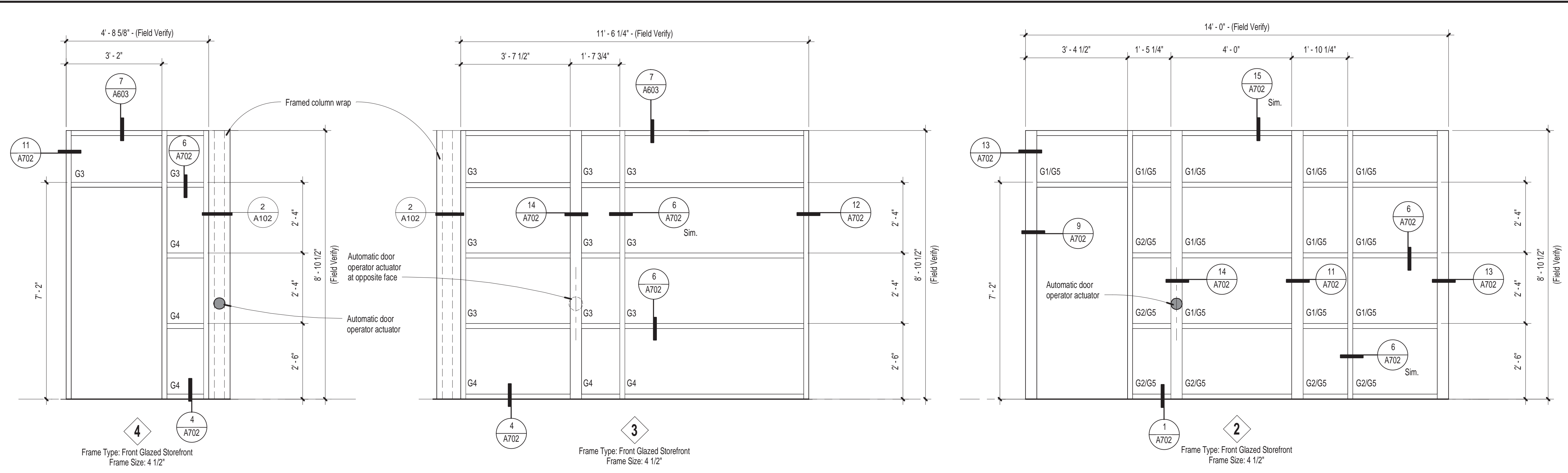


AFG
* Add Ballistic Laminare (G5) to Door 100A at Bid Alternate #2

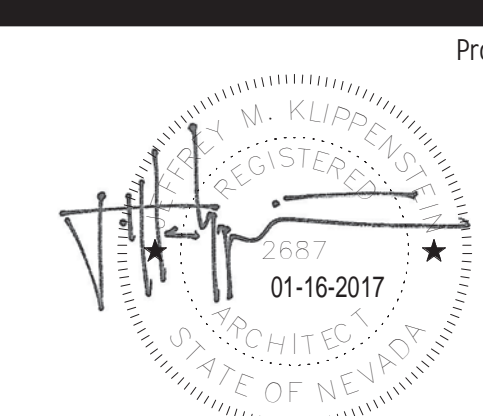
Hollow Metal Frame Elevations



Storefront Frame Elevations



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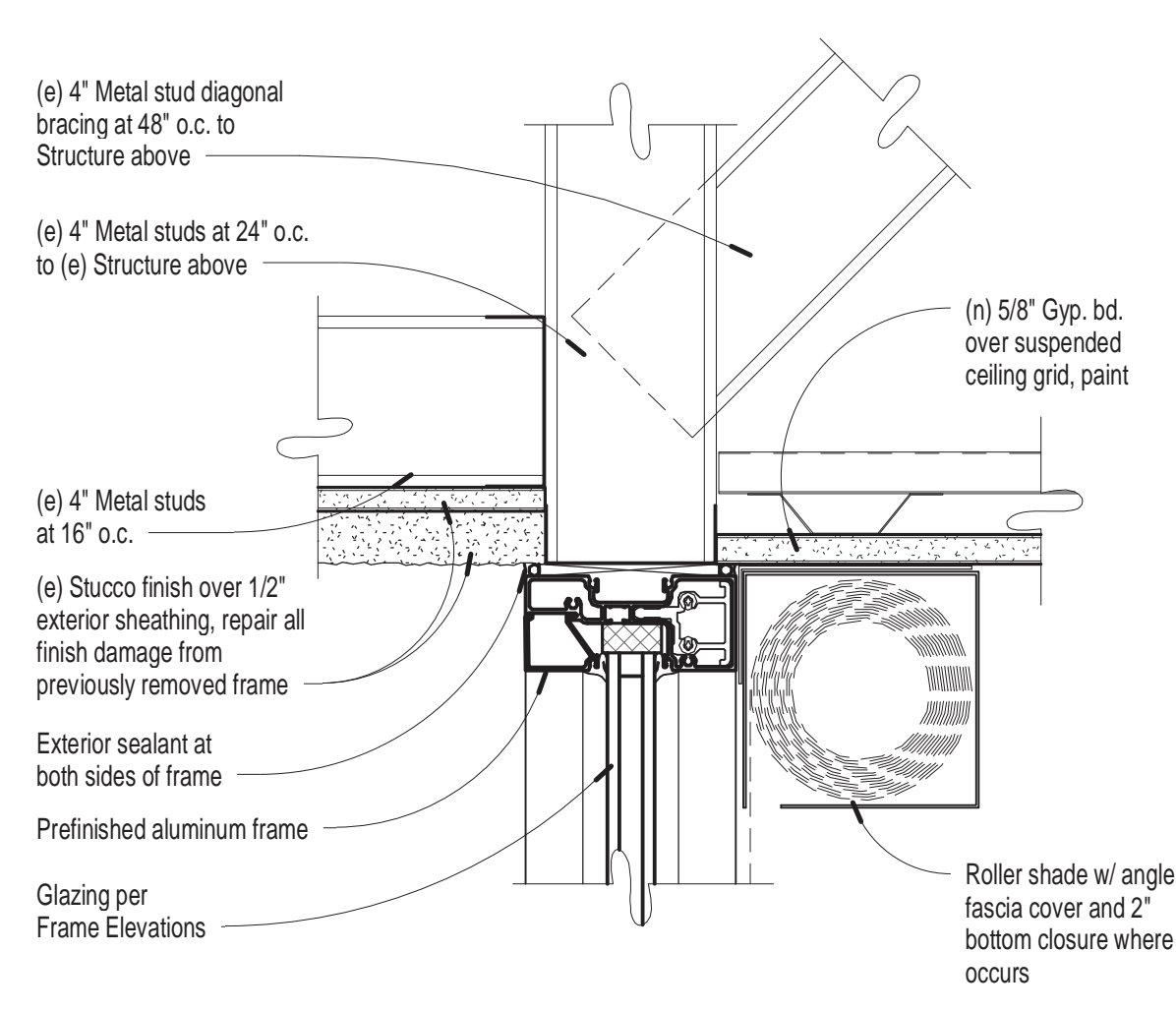
| Professional Seal | Date | Revision |
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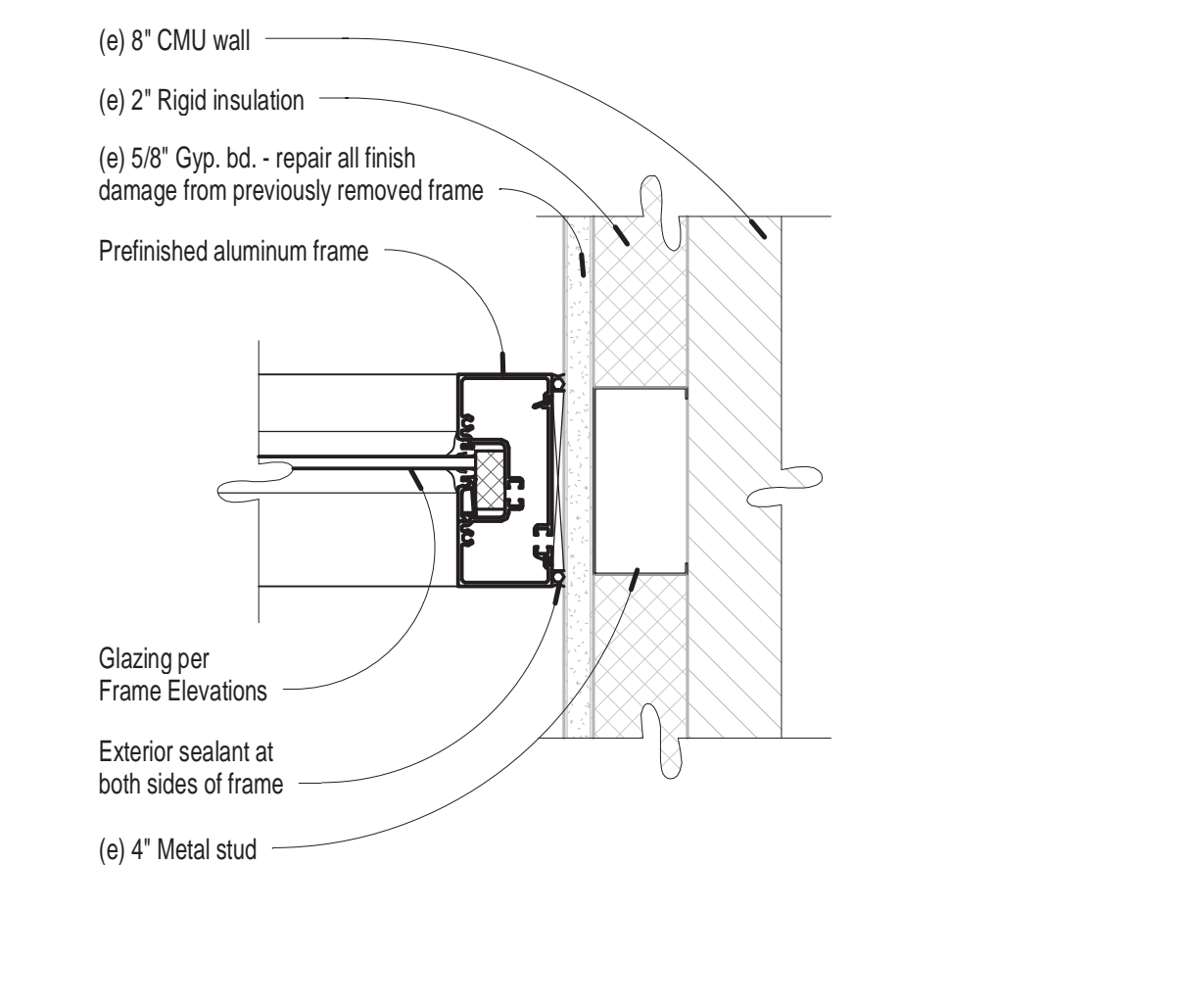
Sparks Municipal Court Security Entrance Remodel
1450 C Street
Sparks, Nevada 89431

Door Schedule, Storefront Elevations
January 16, 2017
H+K Project No: 1628
A701

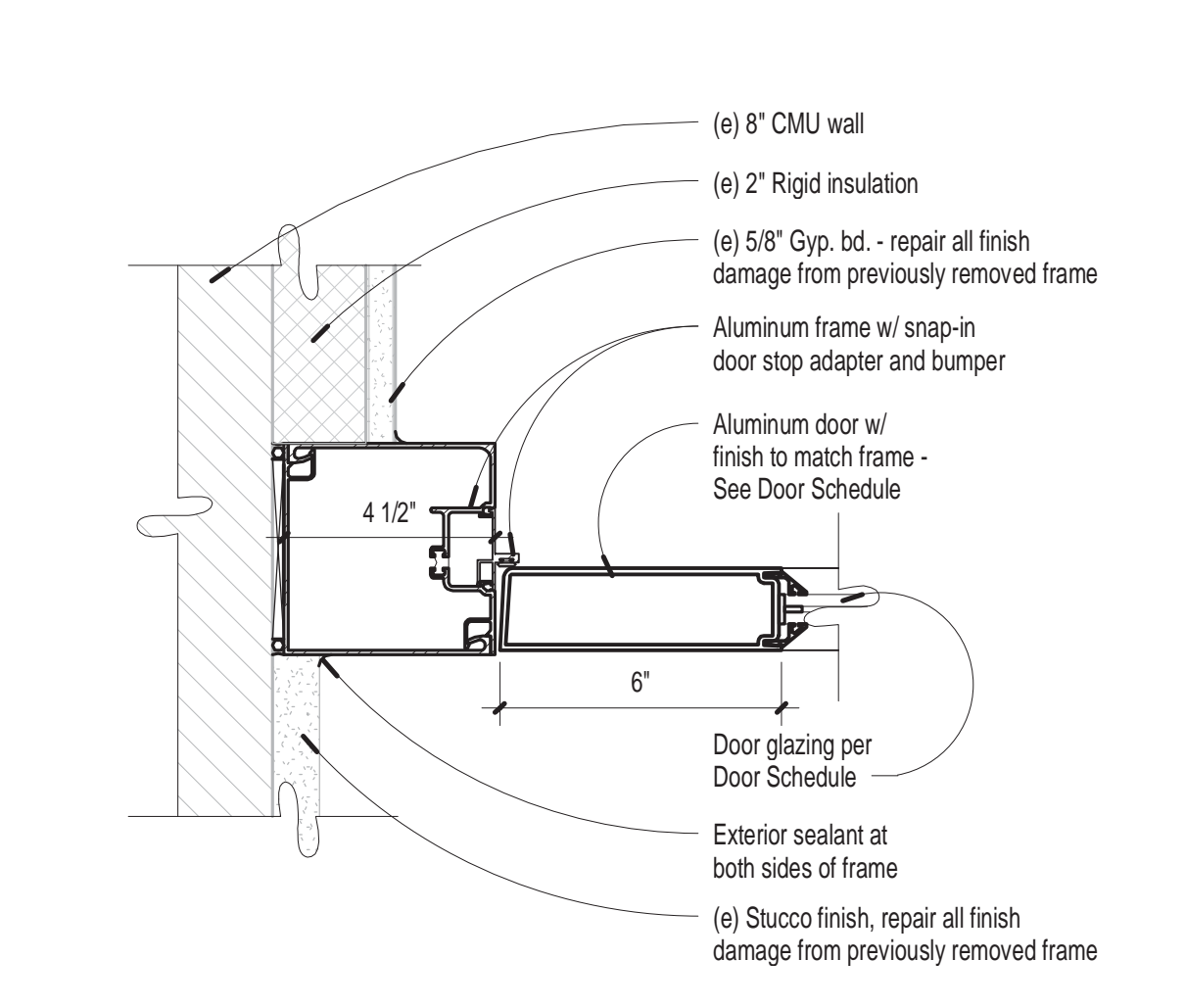
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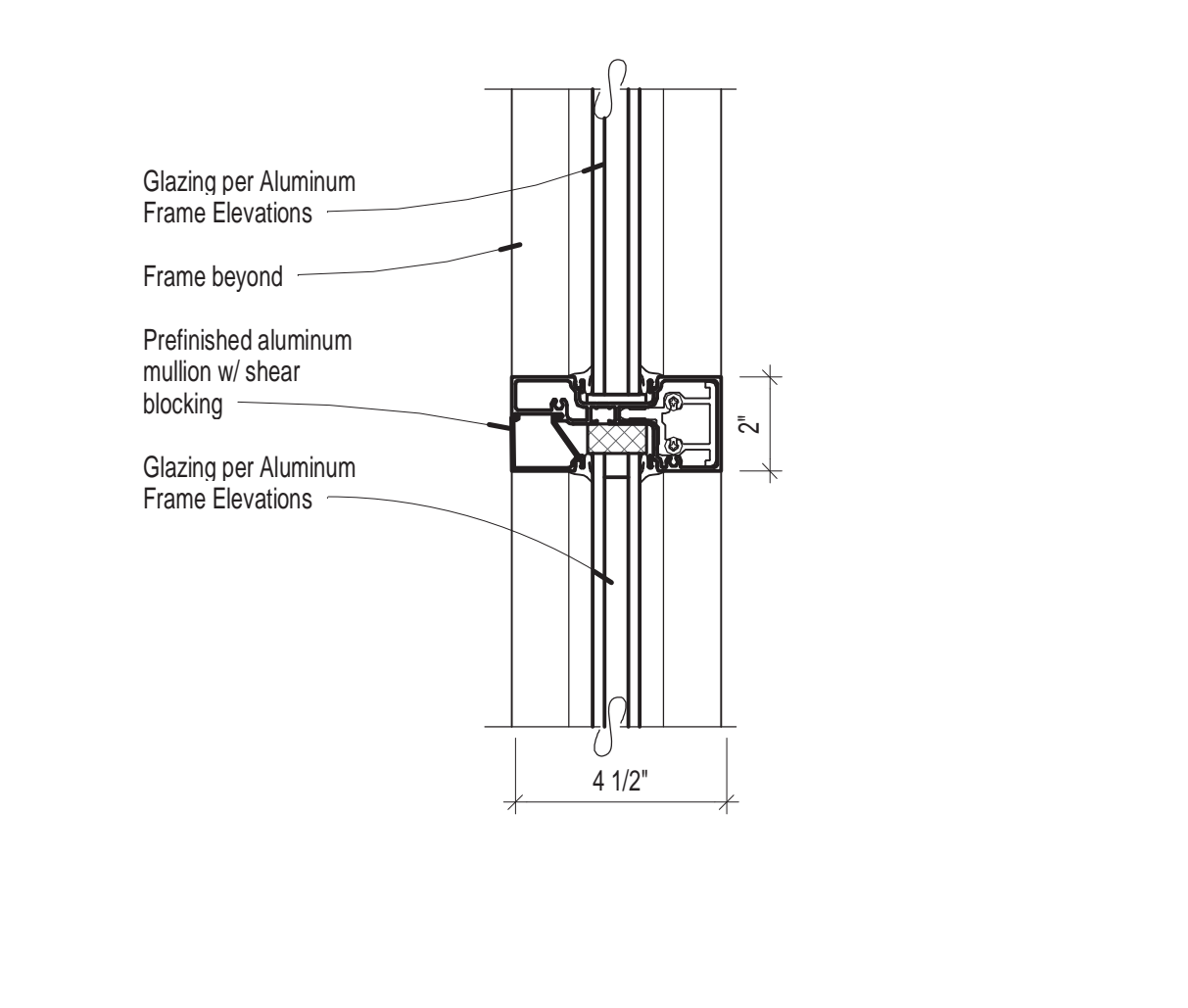
15 Storefront Head at Stucco Wall
3" = 1'-0"



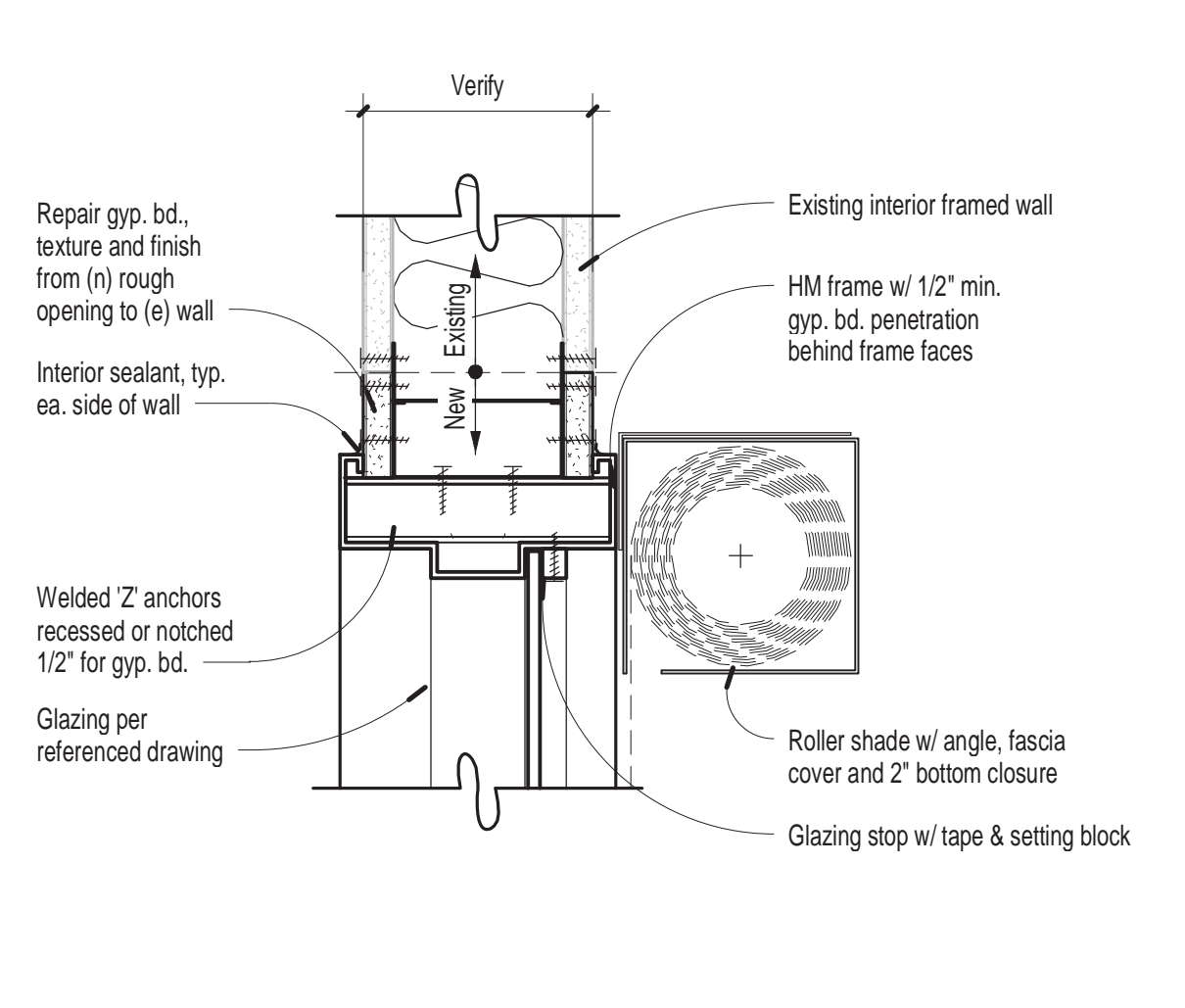
12 Storefront Jamb at Gyp. Bd. Wall
3" = 1'-0"



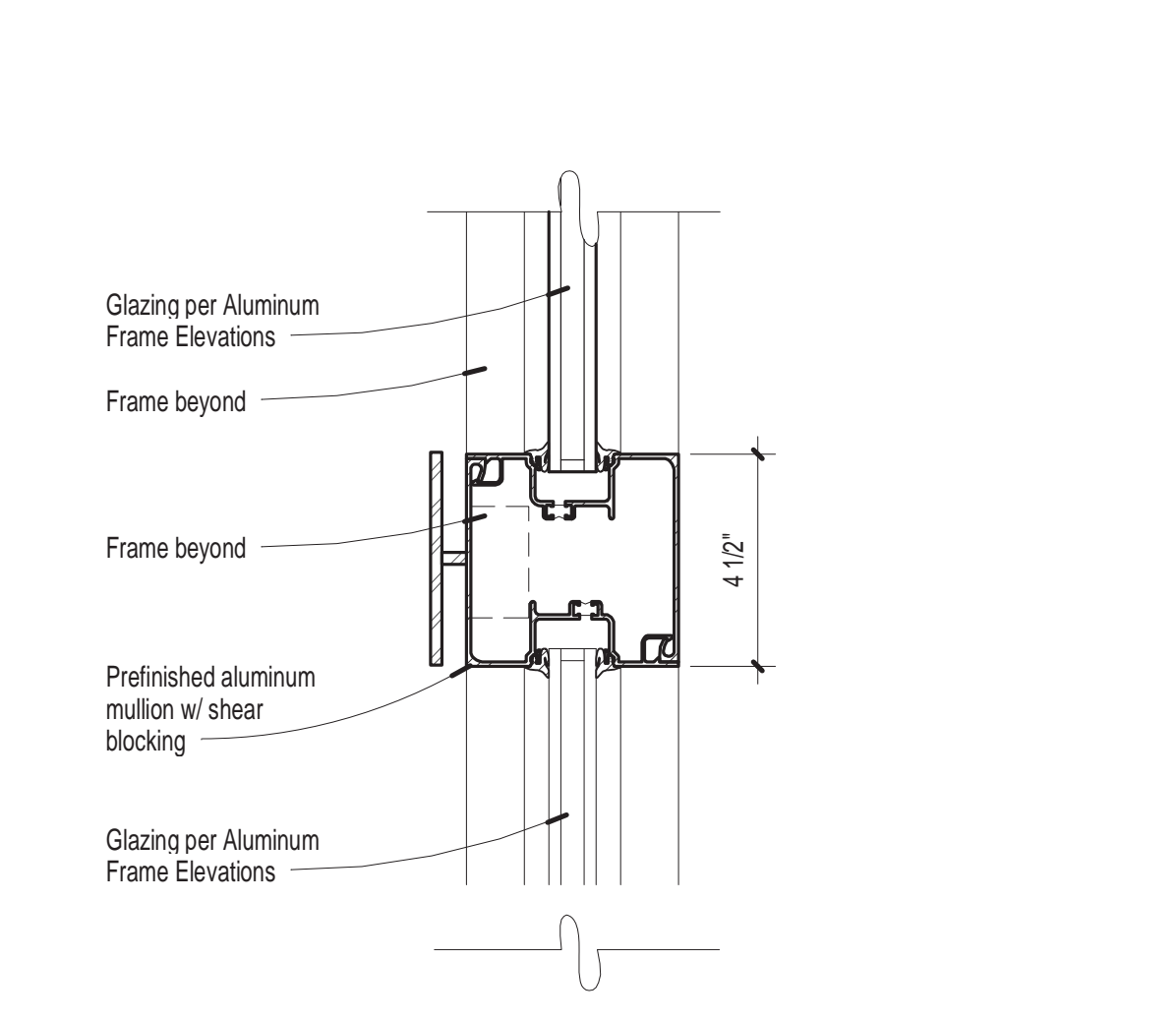
9 Entrance Jamb at Stucco Wall
3" = 1'-0"



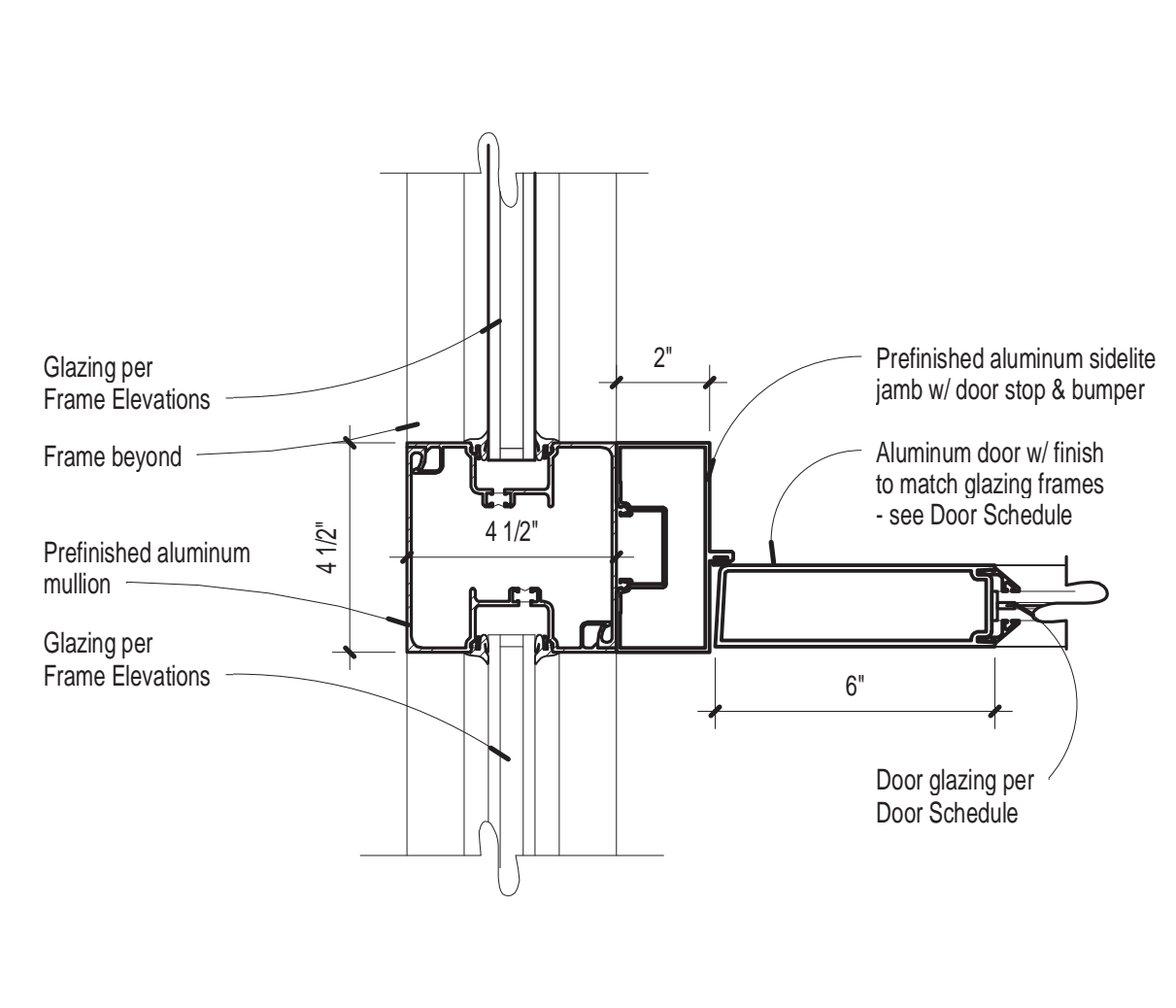
6 Storefront Horizontal Mullion (Vert. Similar)
3" = 1'-0"



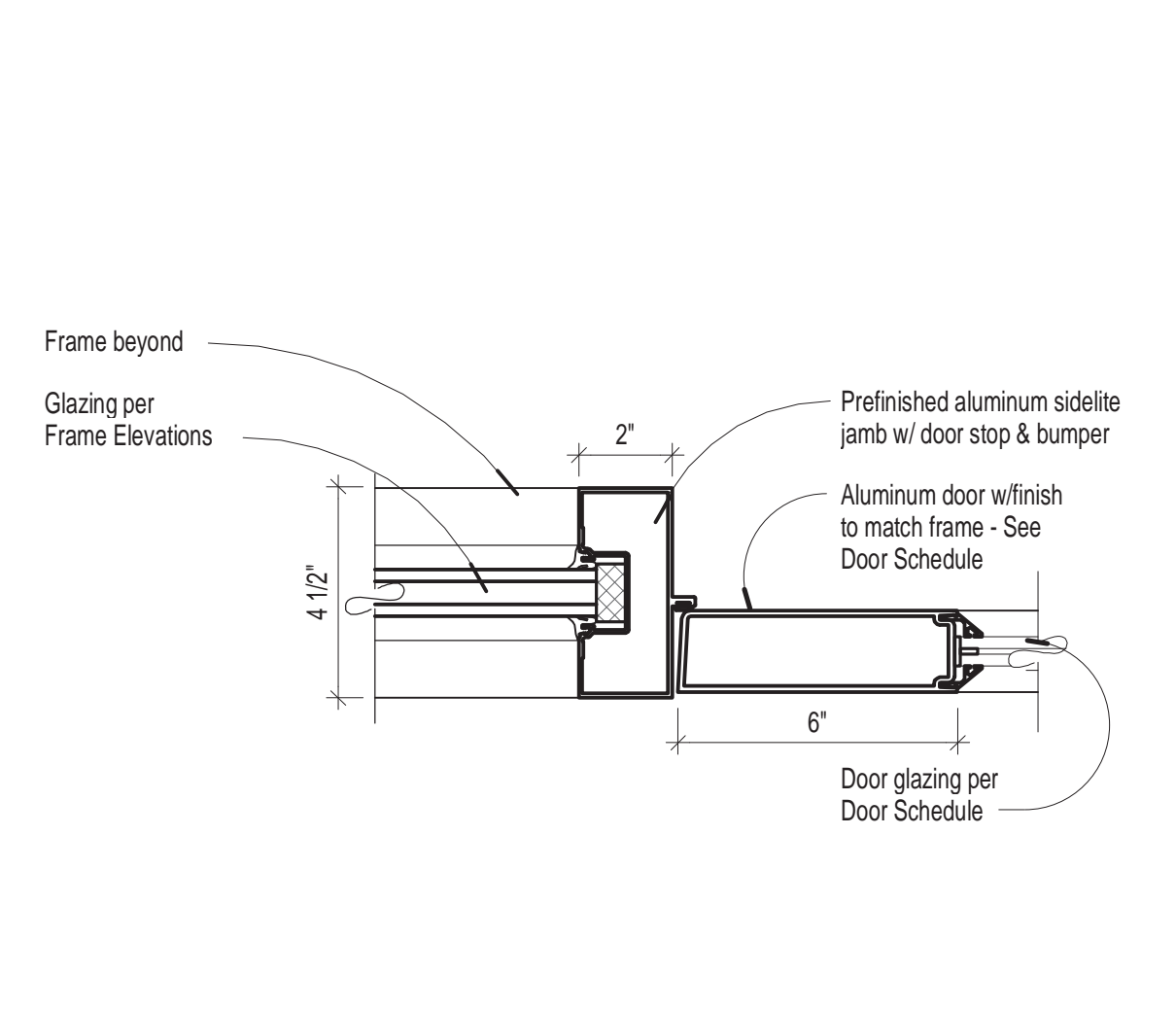
3 Hollow Metal Head at Framed Wall
3" = 1'-0"



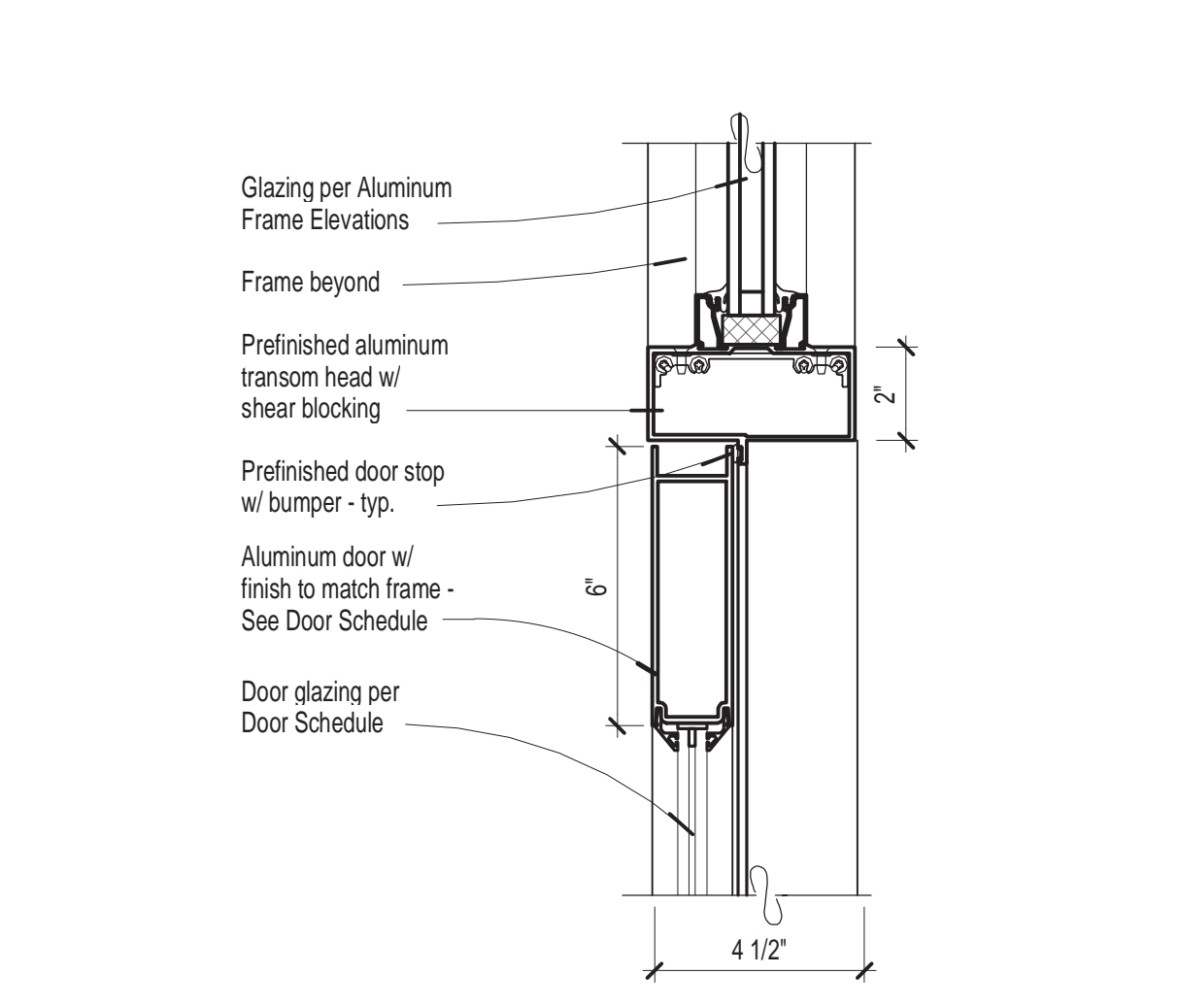
14 Storefront Vertical Mullion
3" = 1'-0"



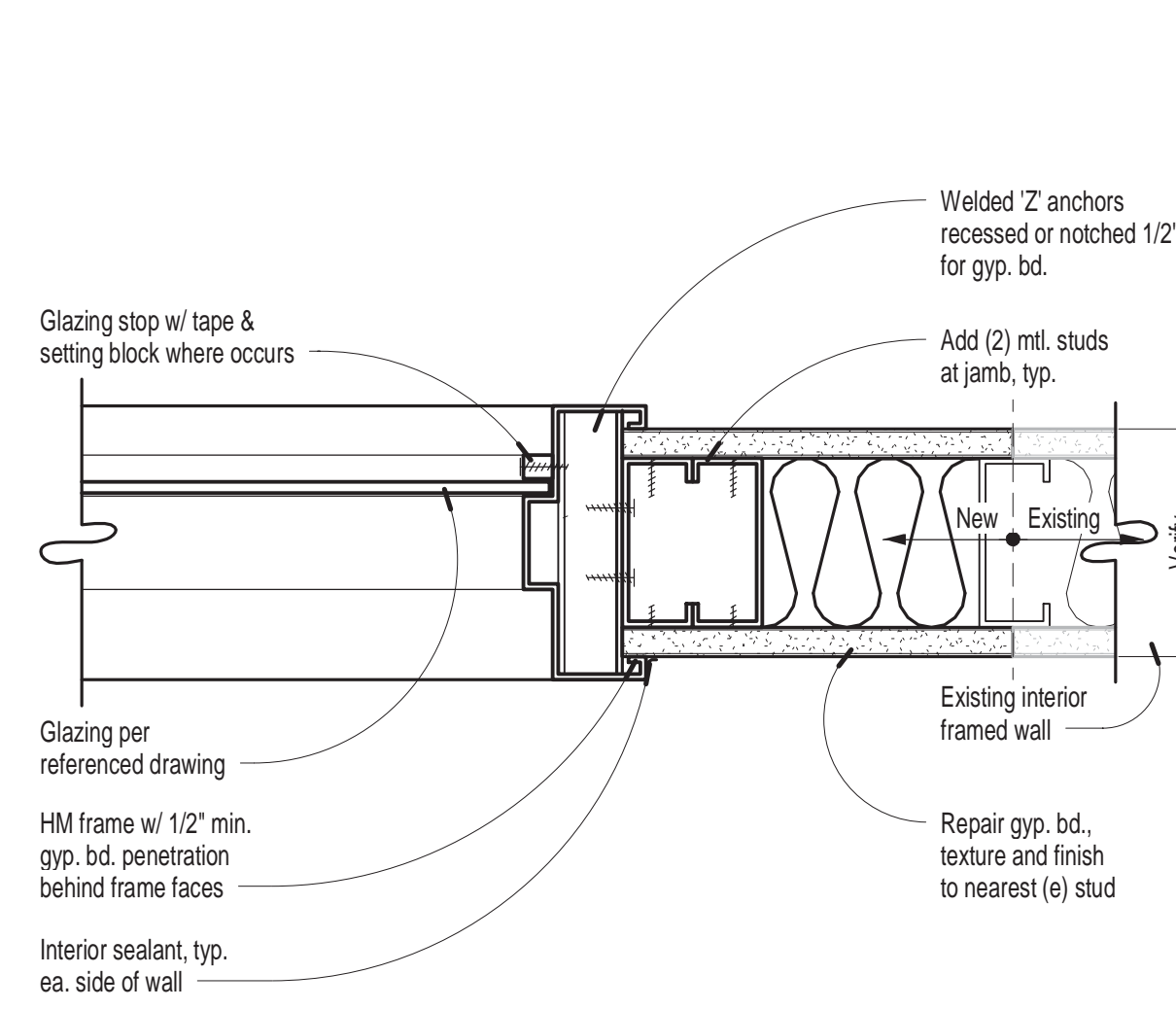
11 Entrance Jamb at Exterior Storefront
3" = 1'-0"



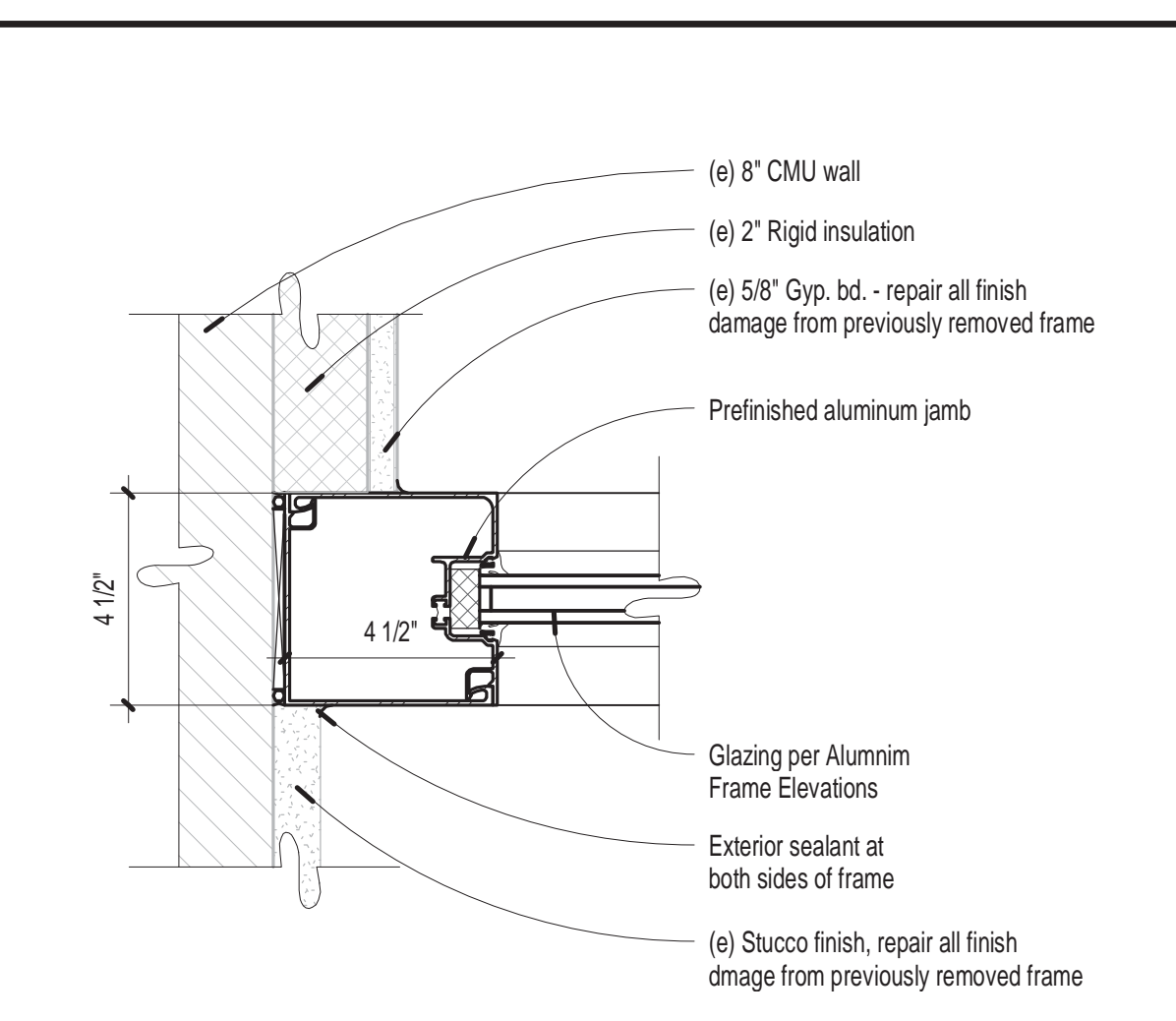
8 Storefront Entrance Jamb at Sidelite
3" = 1'-0"



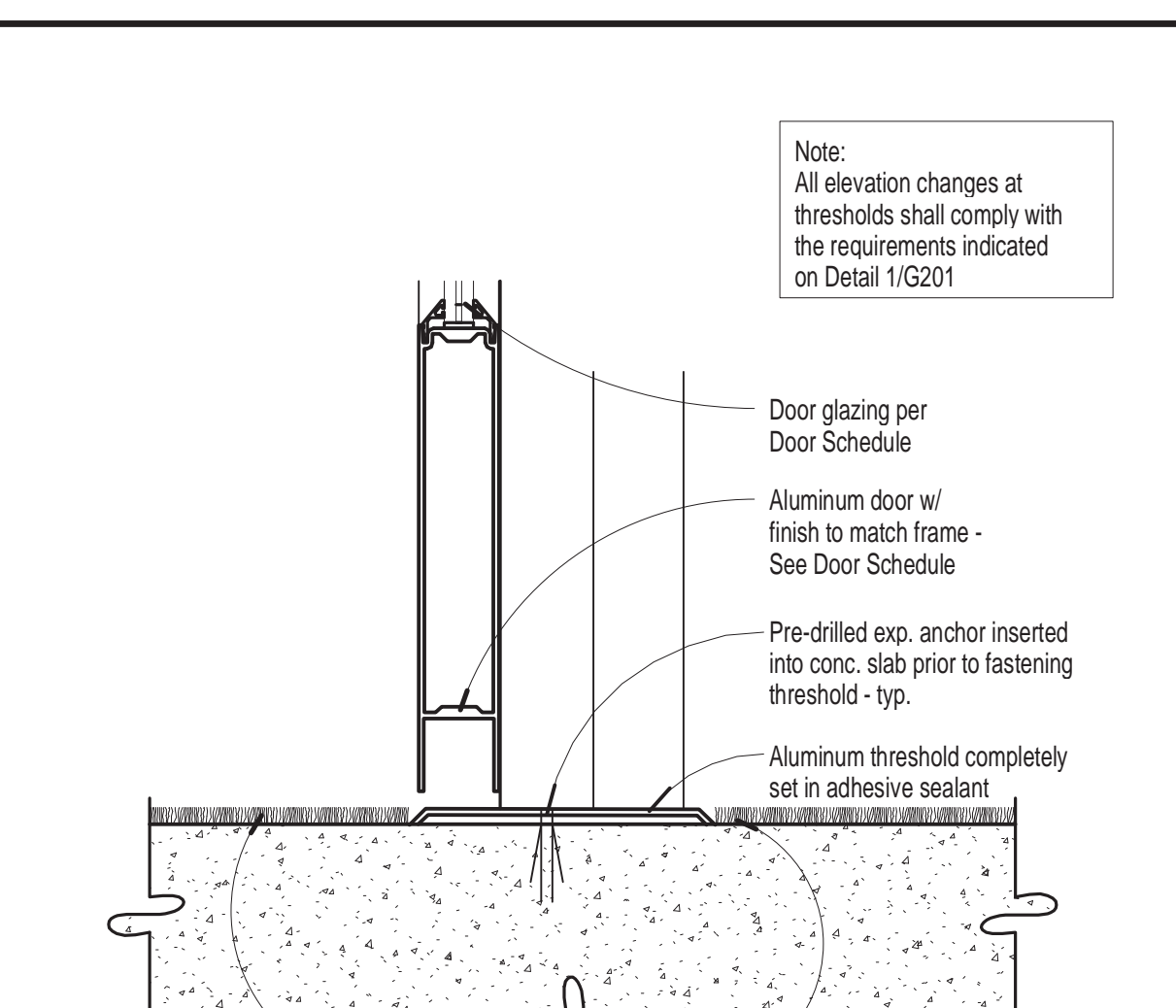
5 Door Head at Storefront Transom
3" = 1'-0"



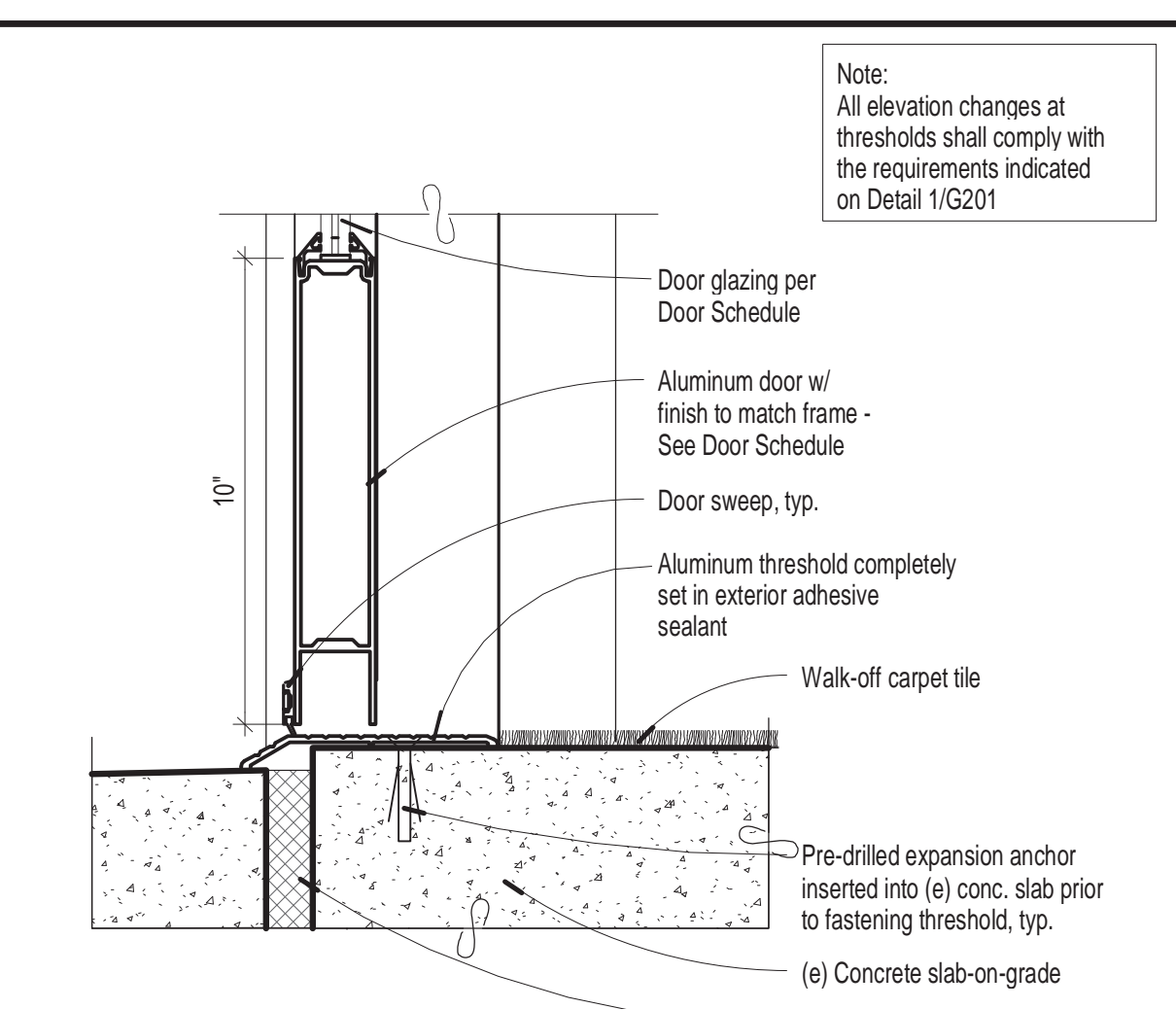
2 Hollow Metal Jamb at Framed Wall
3" = 1'-0"



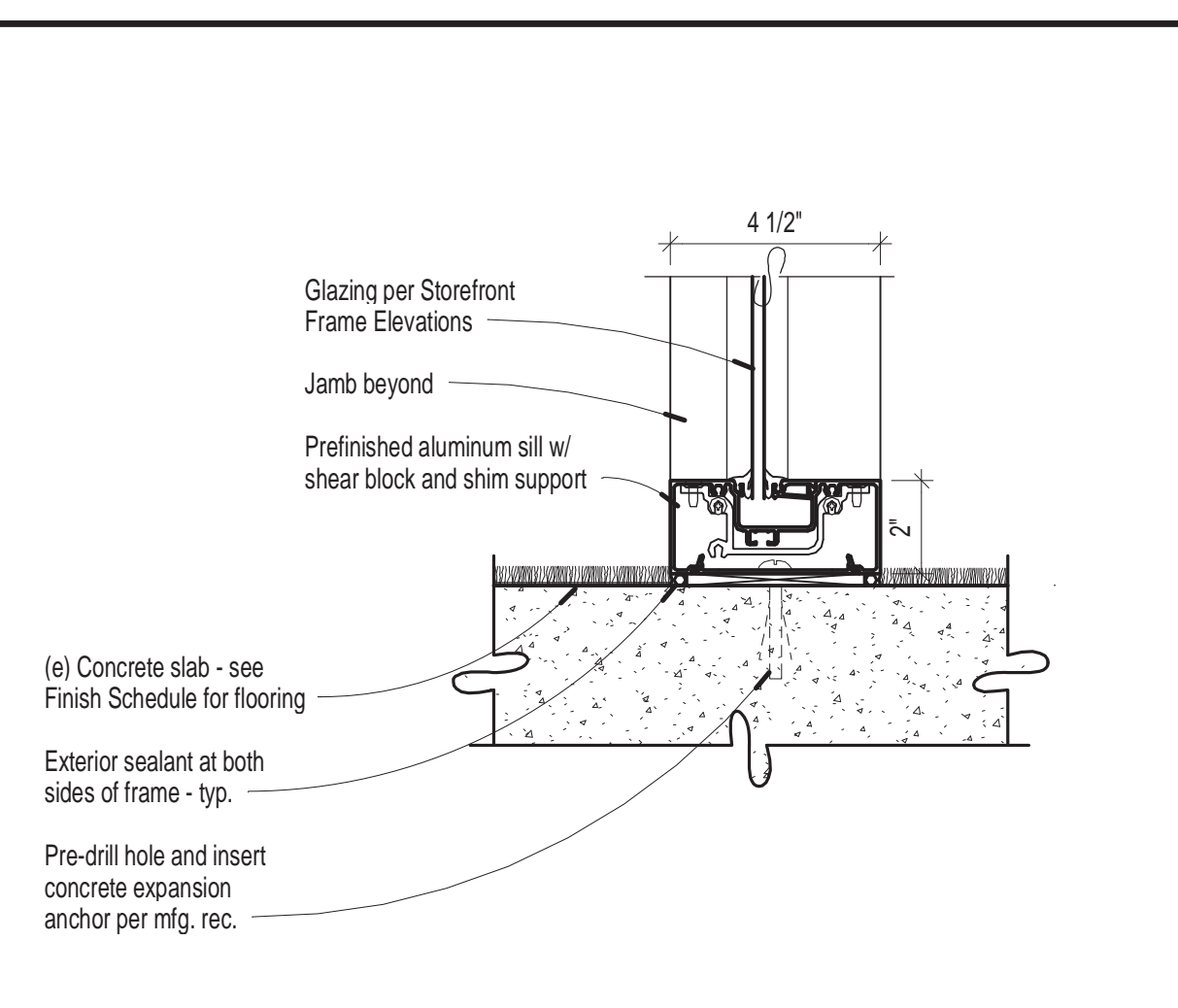
13 Storefront Jamb at Stucco Wall
3" = 1'-0"



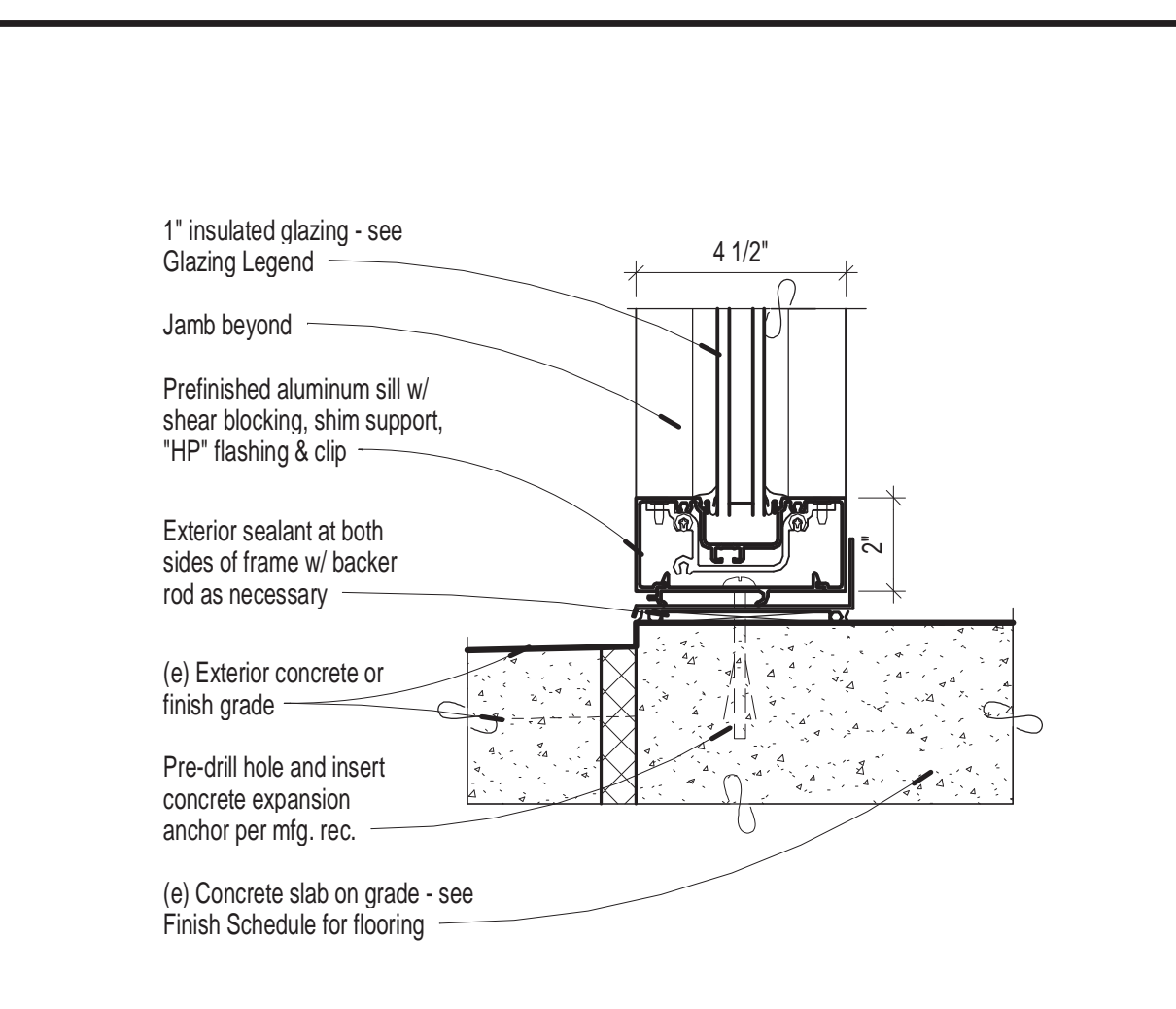
10 Threshold at Interior Door
3" = 1'-0"



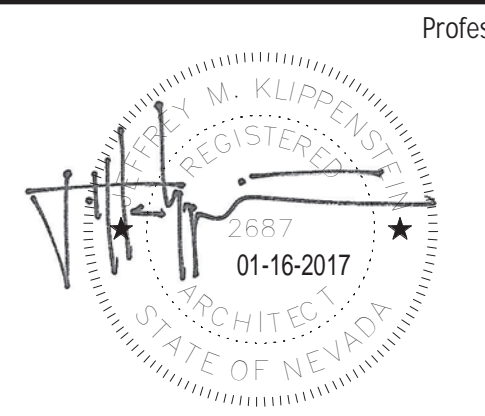
7 Threshold at Exterior Door
3" = 1'-0"



4 Storefront Interior Sill at Concrete Slab
3" = 1'-0"



1 Storefront Exterior Sill at Concrete Slab
3" = 1'-0"



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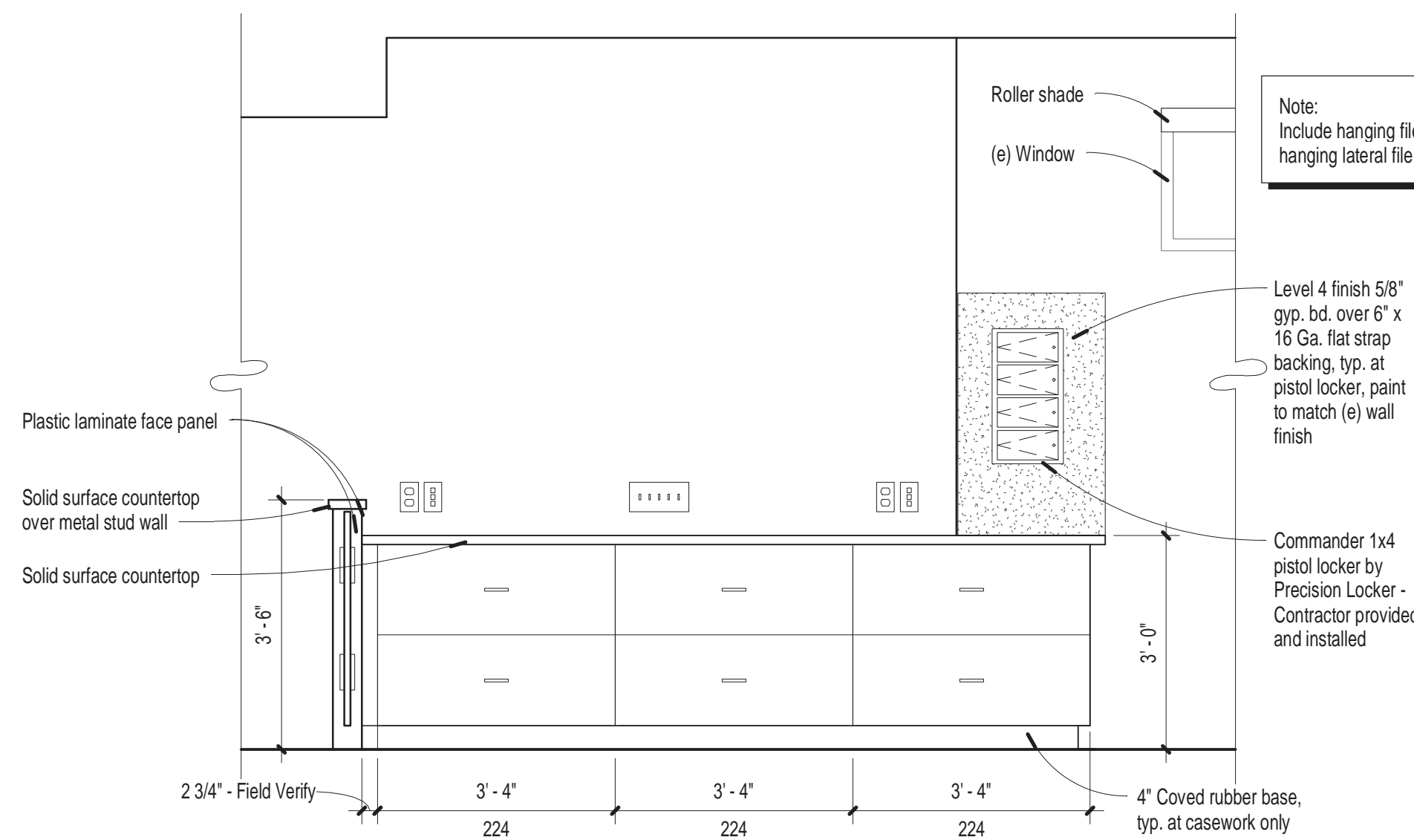
**Sparks Municipal Court
Security Entrance Remodel**

1450 C Street
Sparks, Nevada 89431

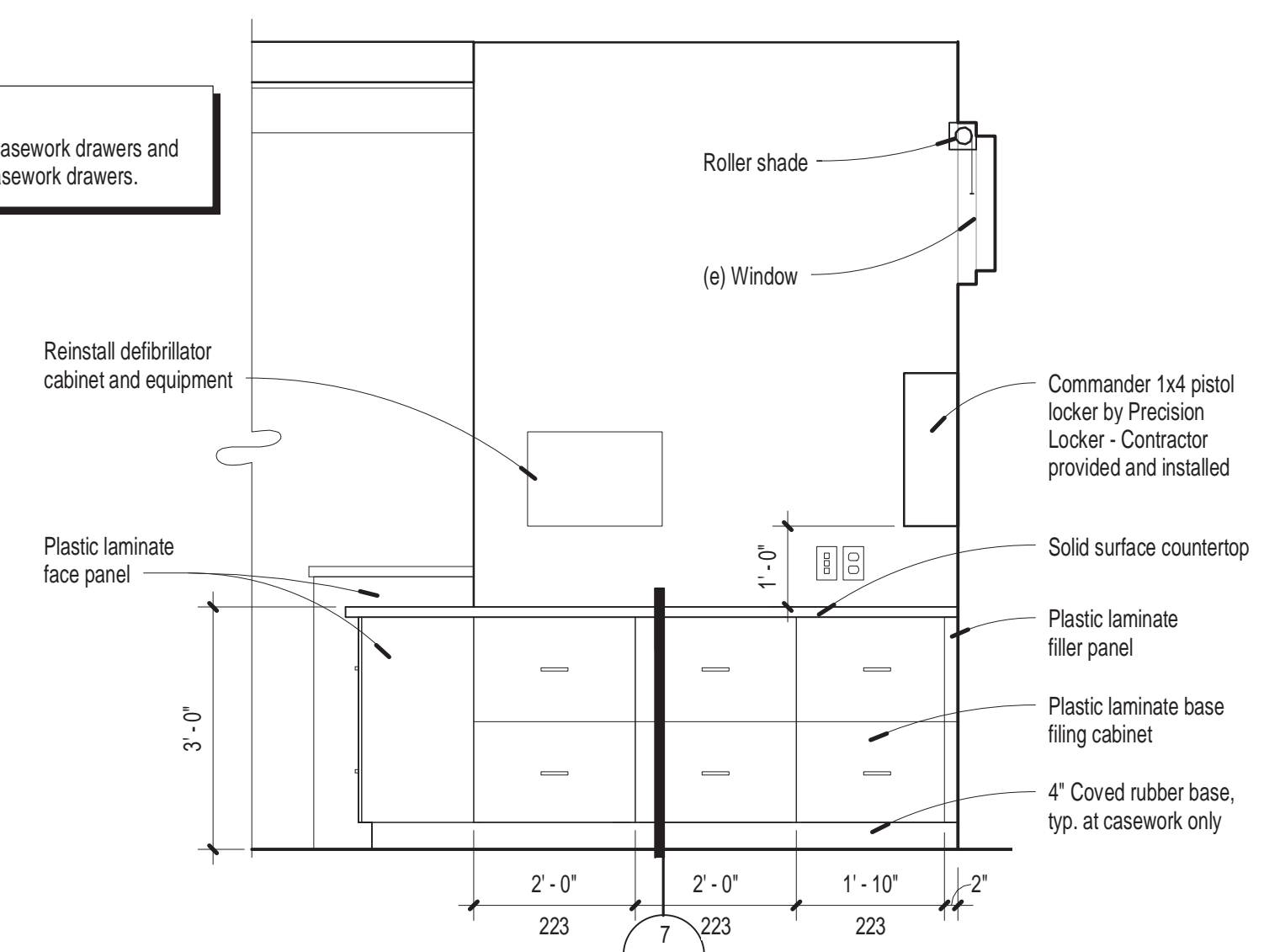
Door and Storefront
Details

January 16, 2017
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A702

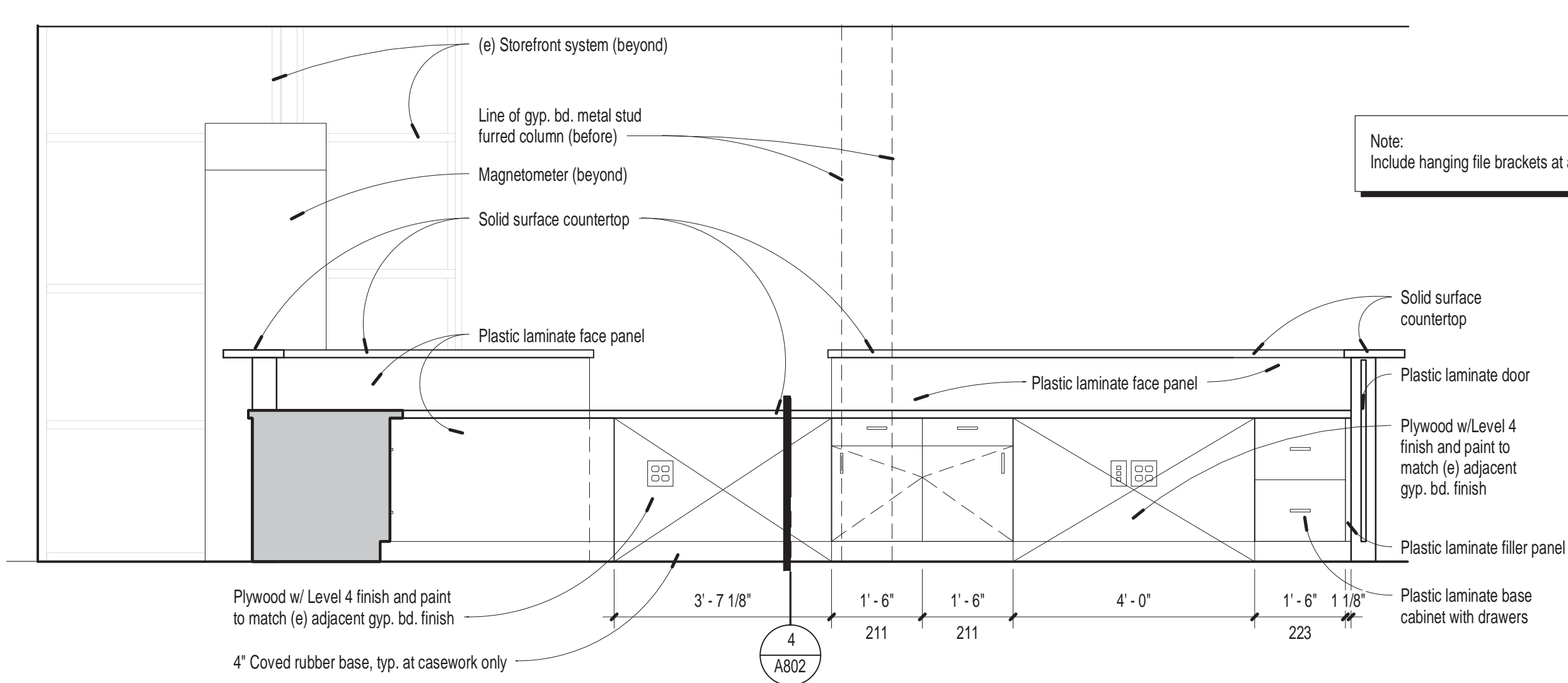




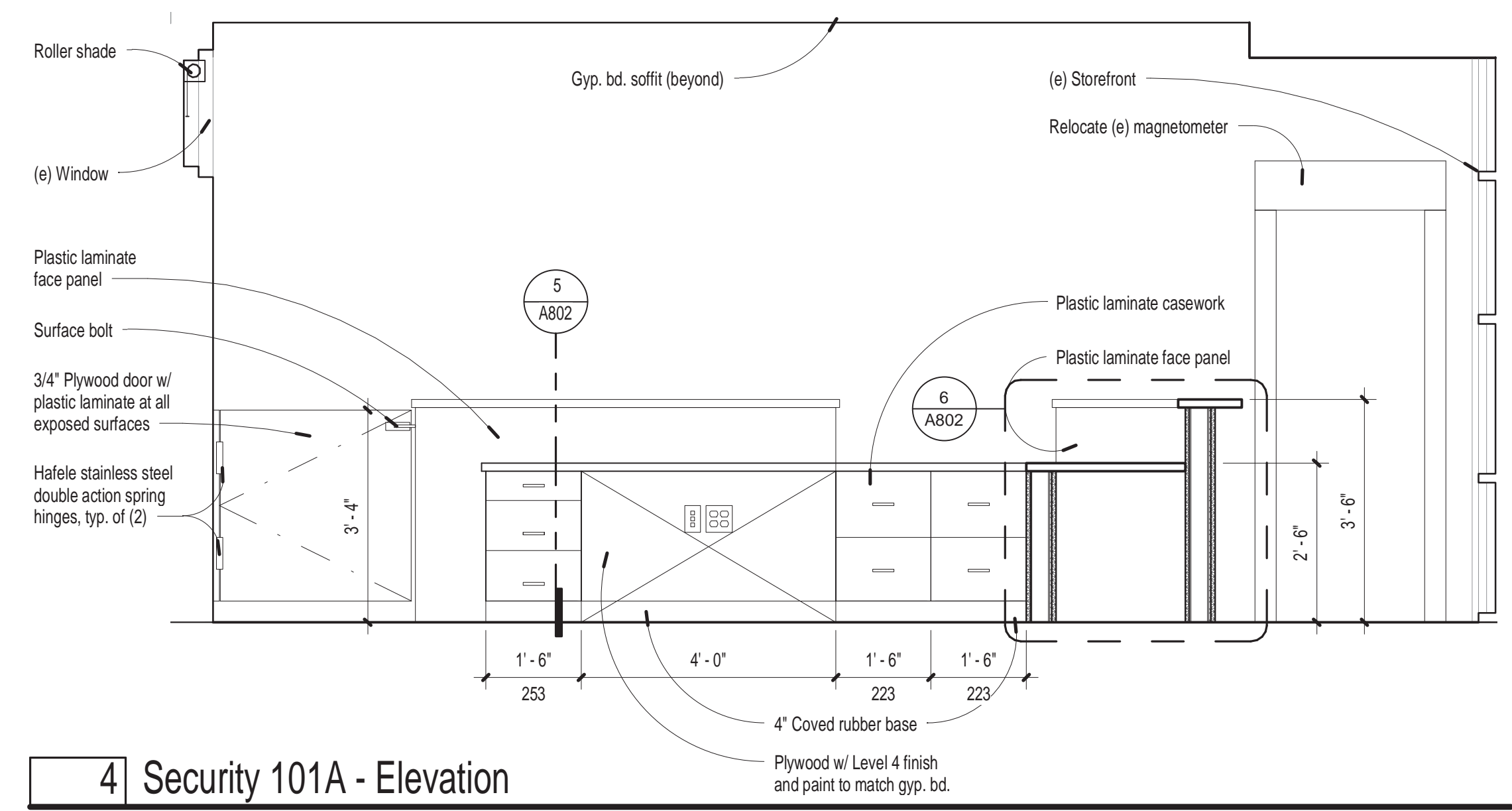
7 Security 101A - Elevation
1/2" = 1'-0"



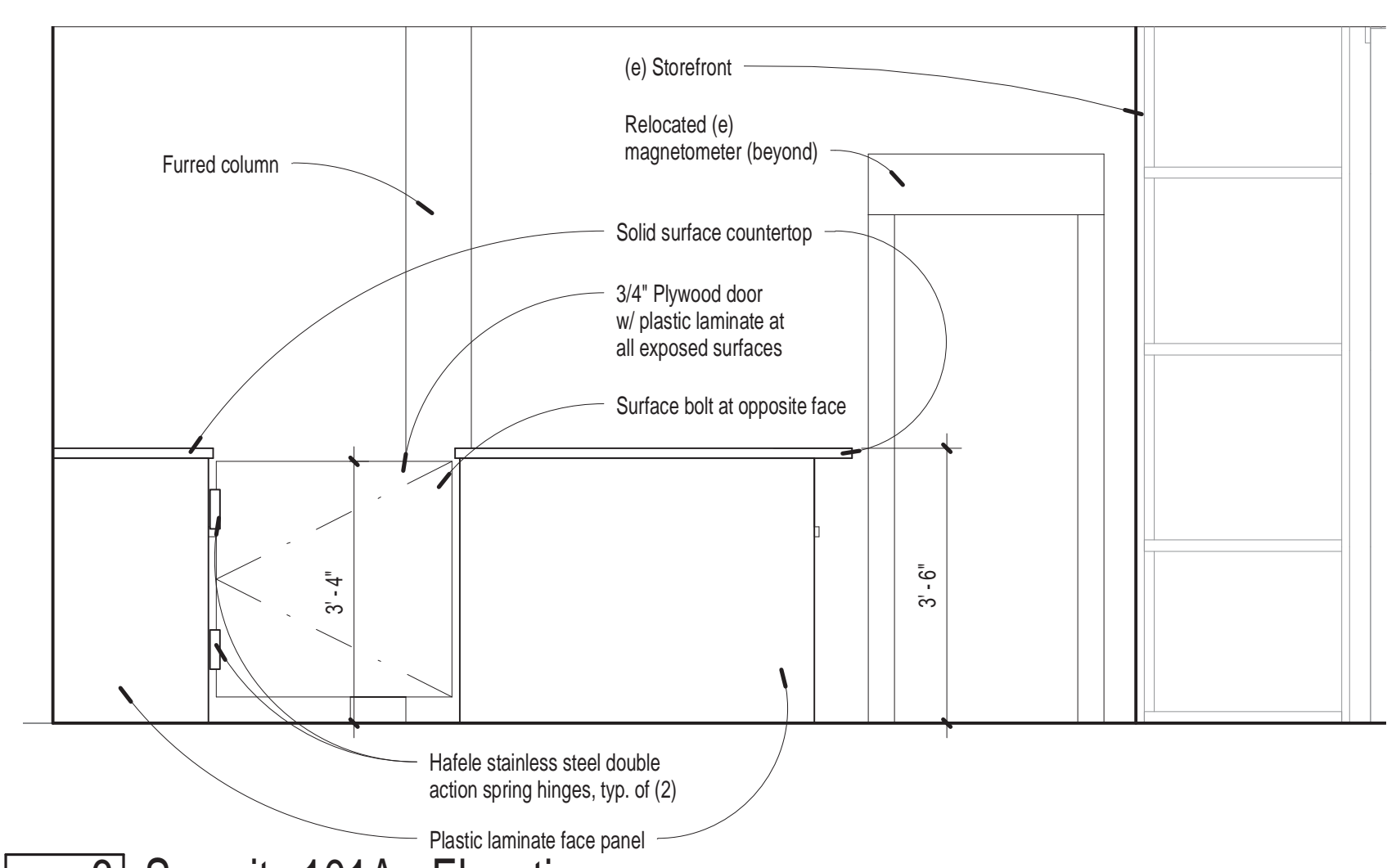
6 Security 101A - Elevation
1/2" = 1'-0"



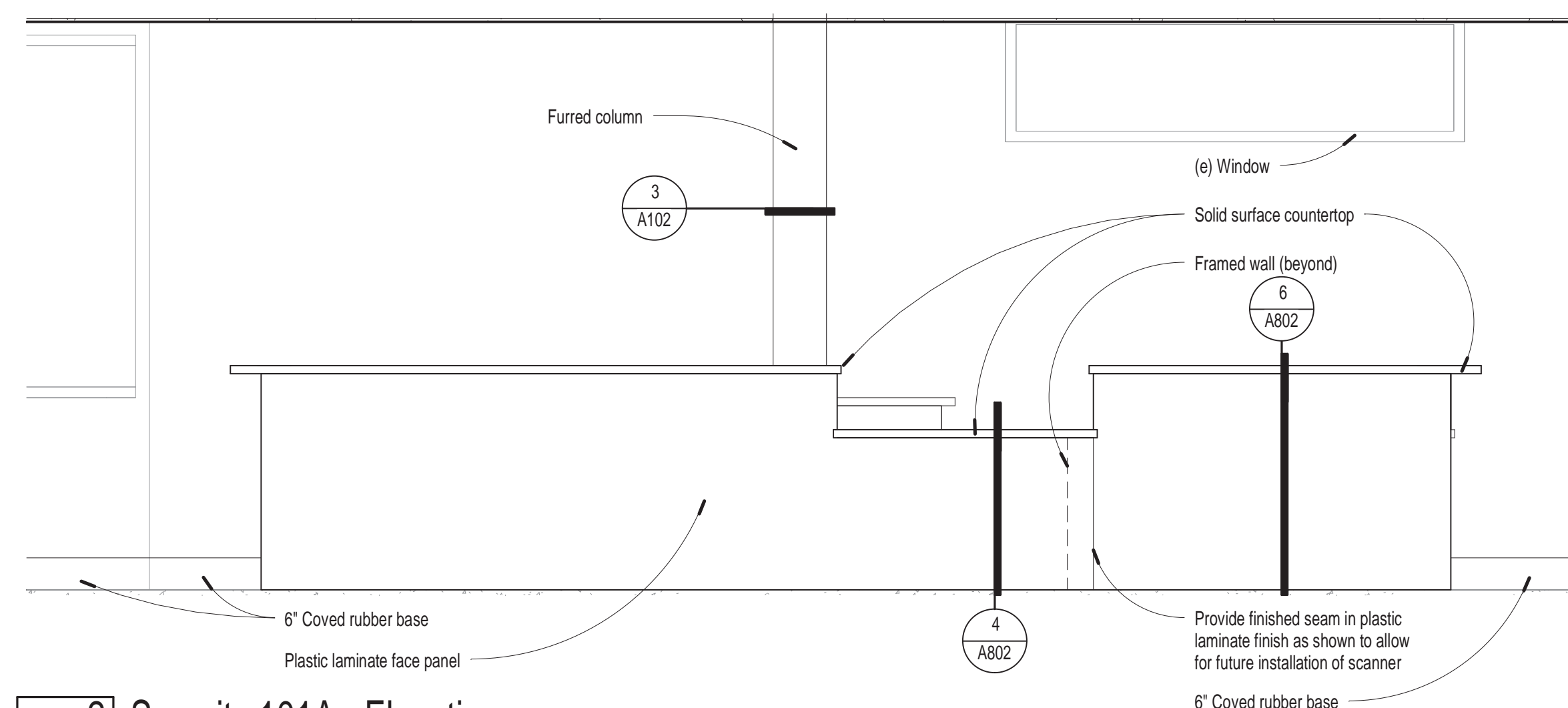
5 Security 101A - Elevation
1/2" = 1'-0"



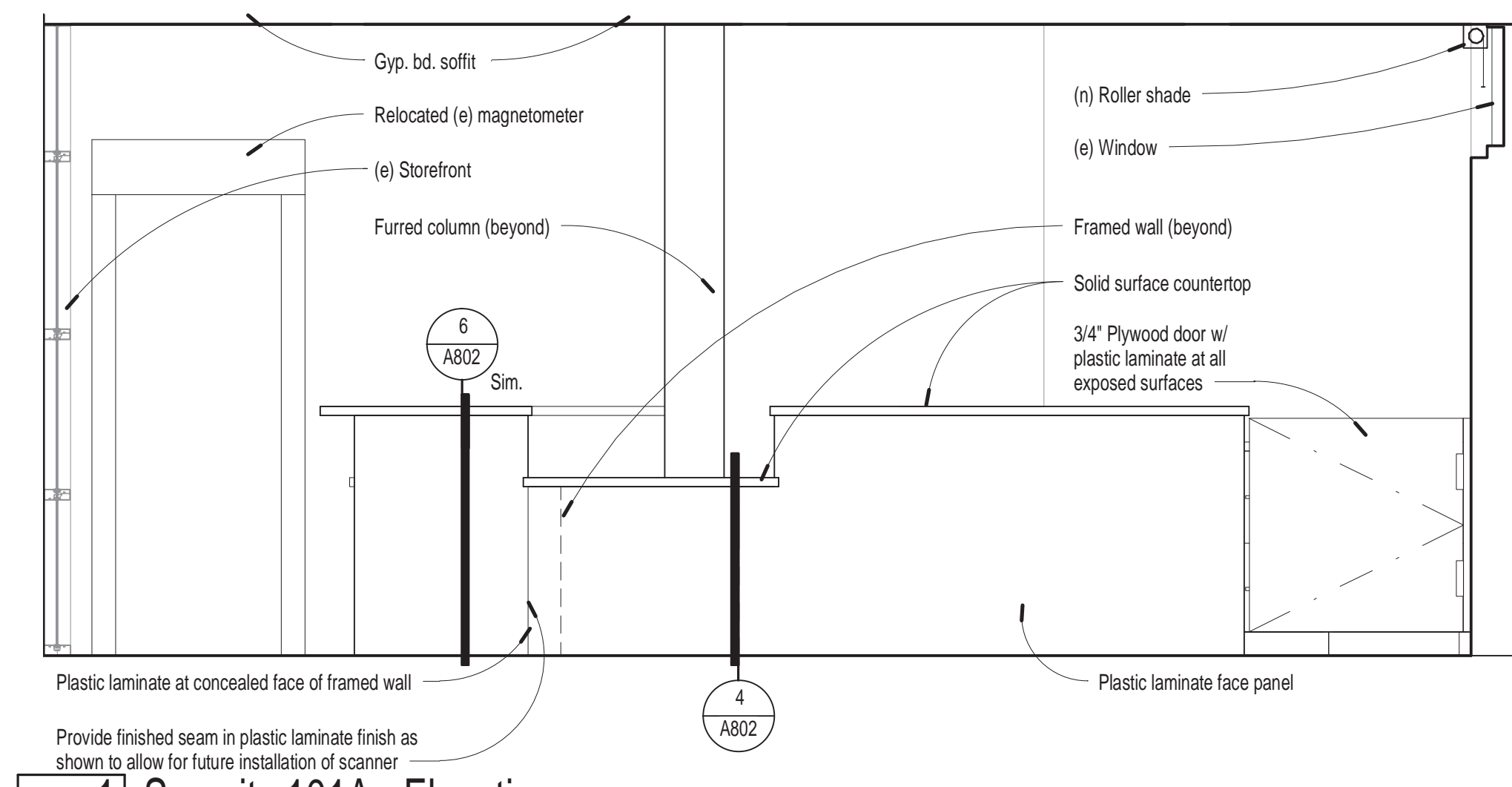
4 Security 101A - Elevation
1/2" = 1'-0"



3 Security 101A - Elevation
1/2" = 1'-0"

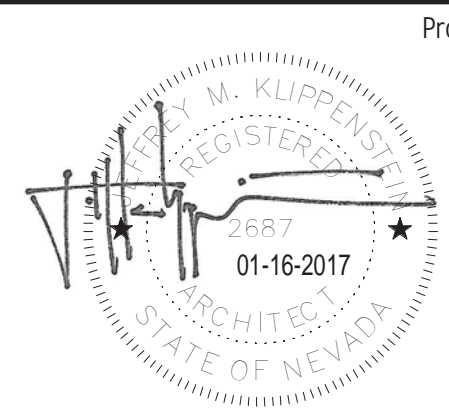


2 Security 101A - Elevation
1/2" = 1'-0"



1 Security 101A - Elevation
1/2" = 1'-0"

C:\H\K Local Projects\1628 Sparks Municipal Court Security Entrance Remodel - M\Meagel.rvt 1/12/2017 8:54:12 AM



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

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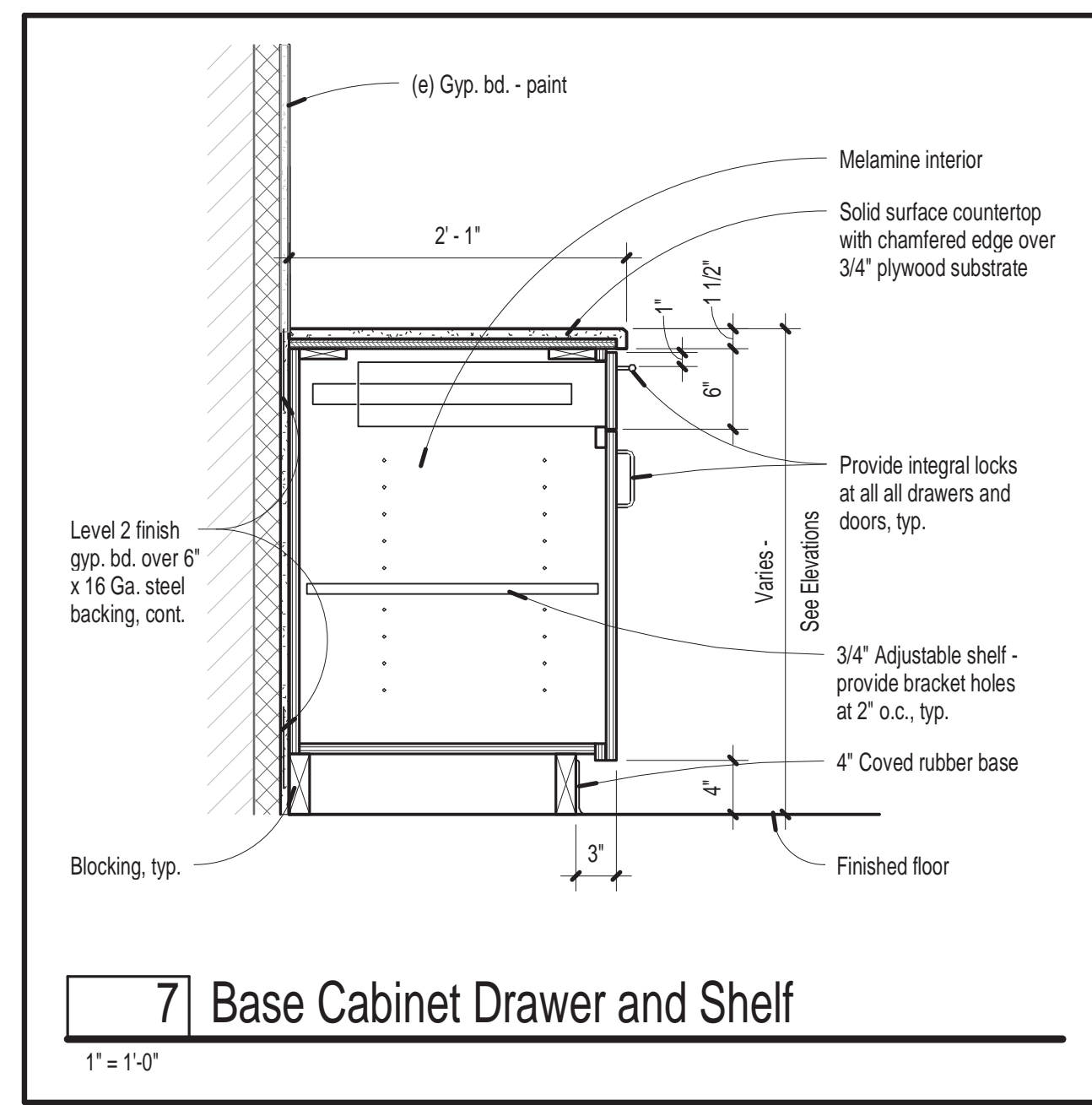
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Casework Elevations

January 16, 2017
H+K Project No: 1628

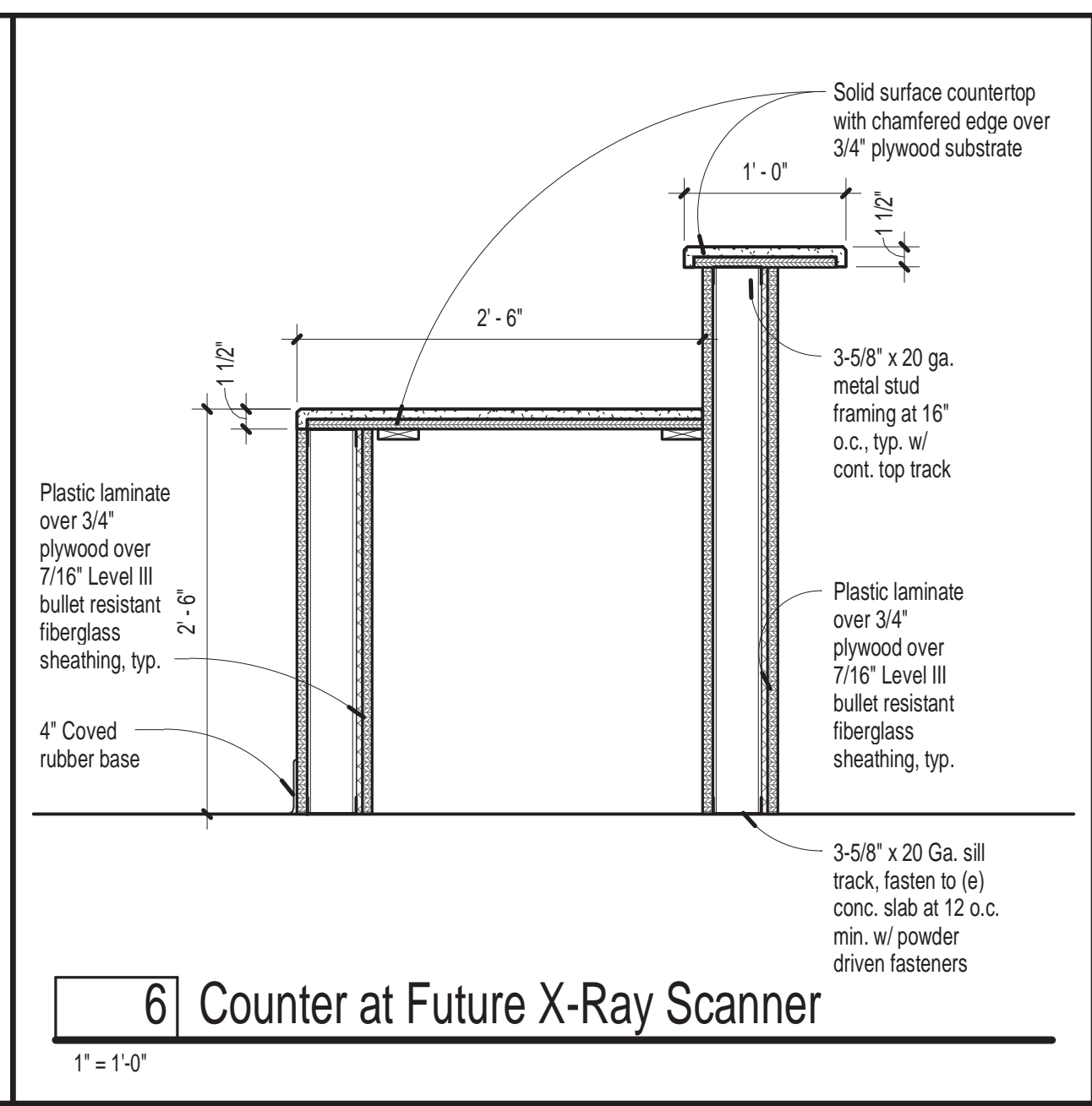
A801





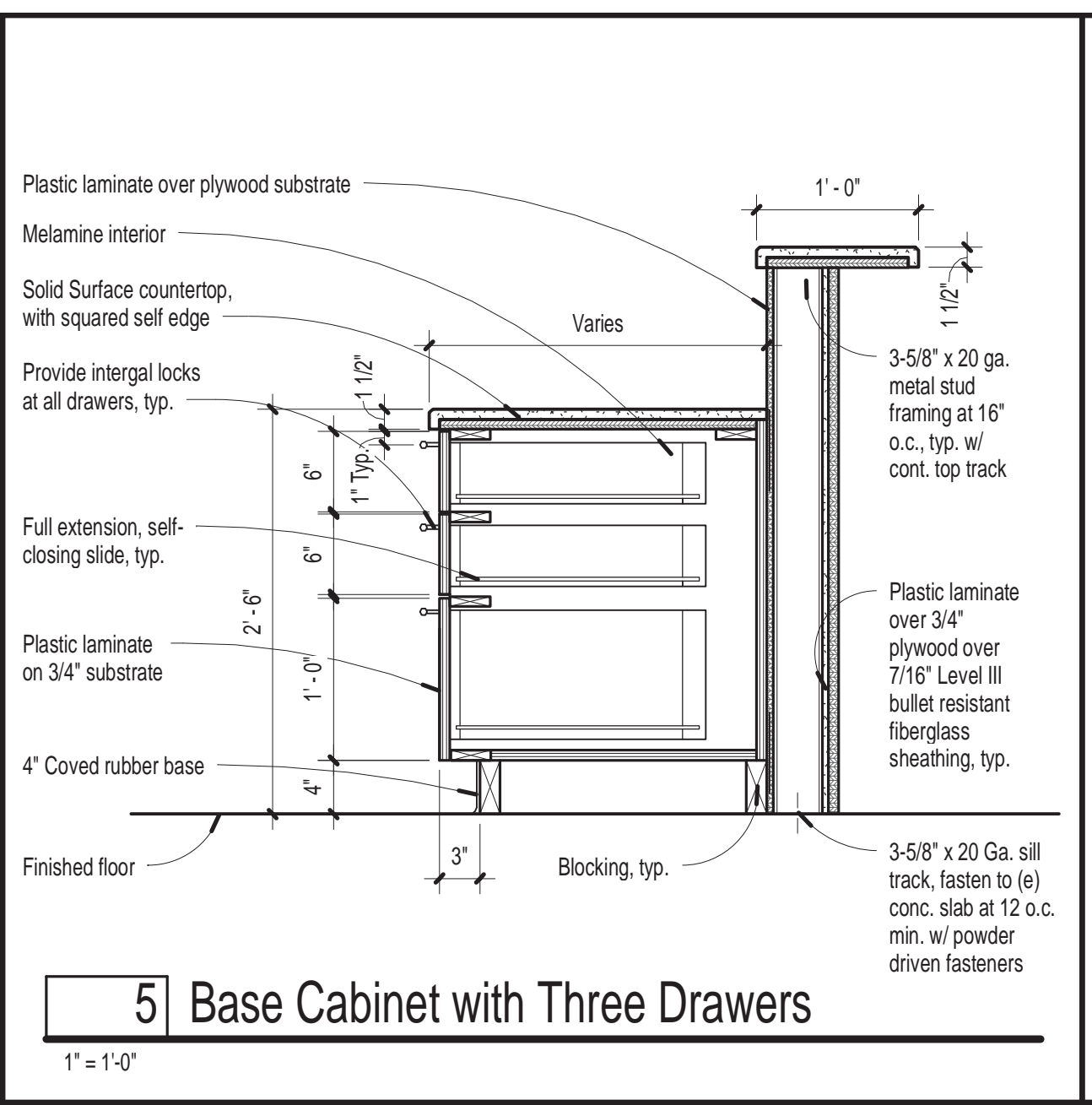
7 Base Cabinet Drawer and Shelf

1" = 1'-0"



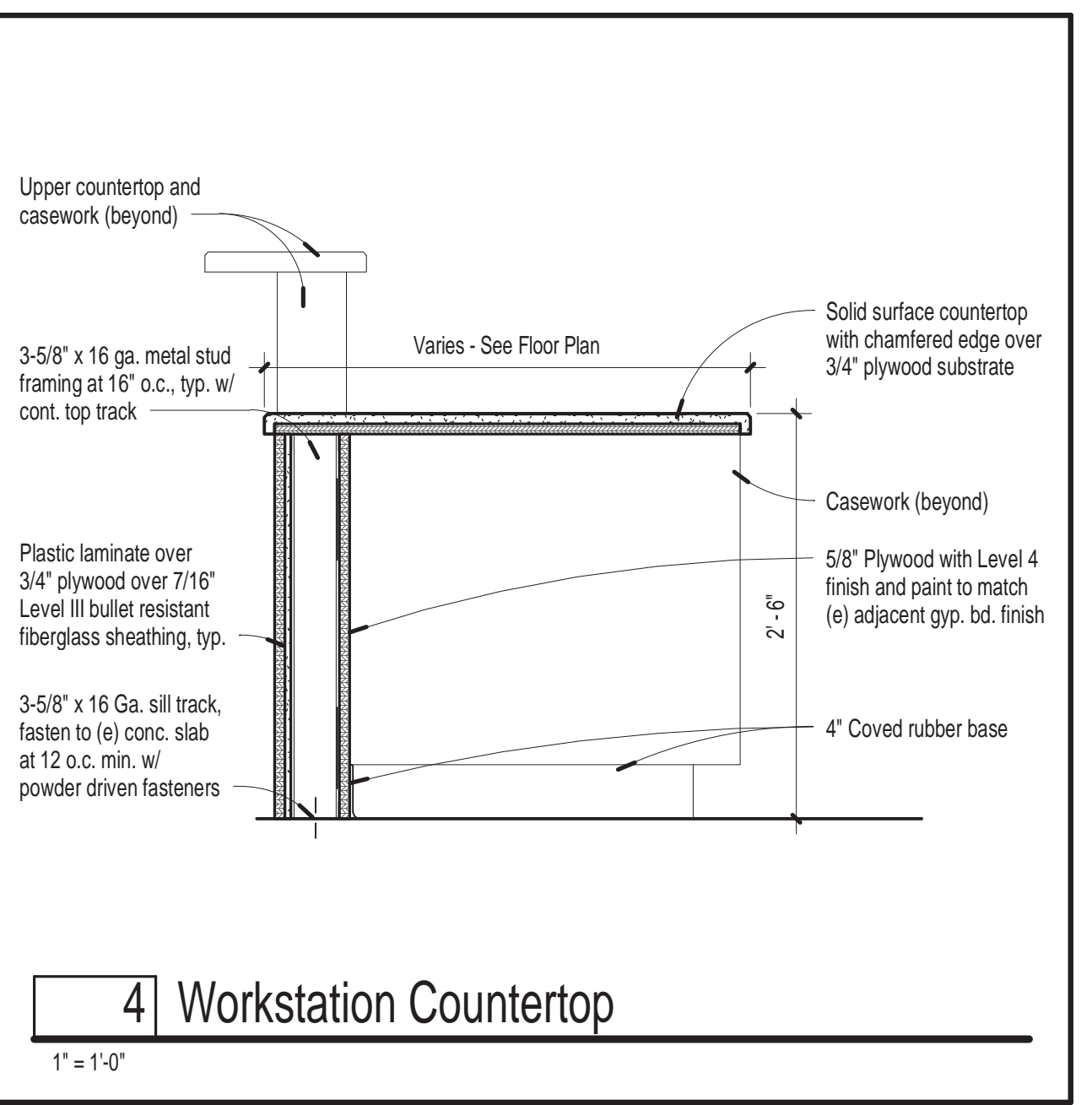
6 Counter at Future X-Ray Scanner

1" = 1'-0"



5 Base Cabinet with Three Drawers

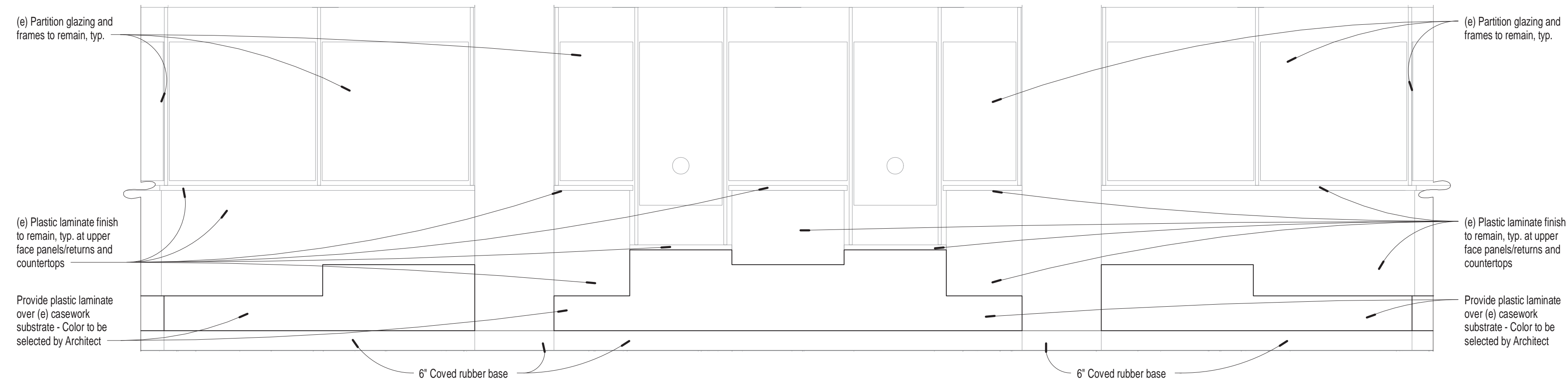
1" = 1'-0"



4 Workstation Countertop

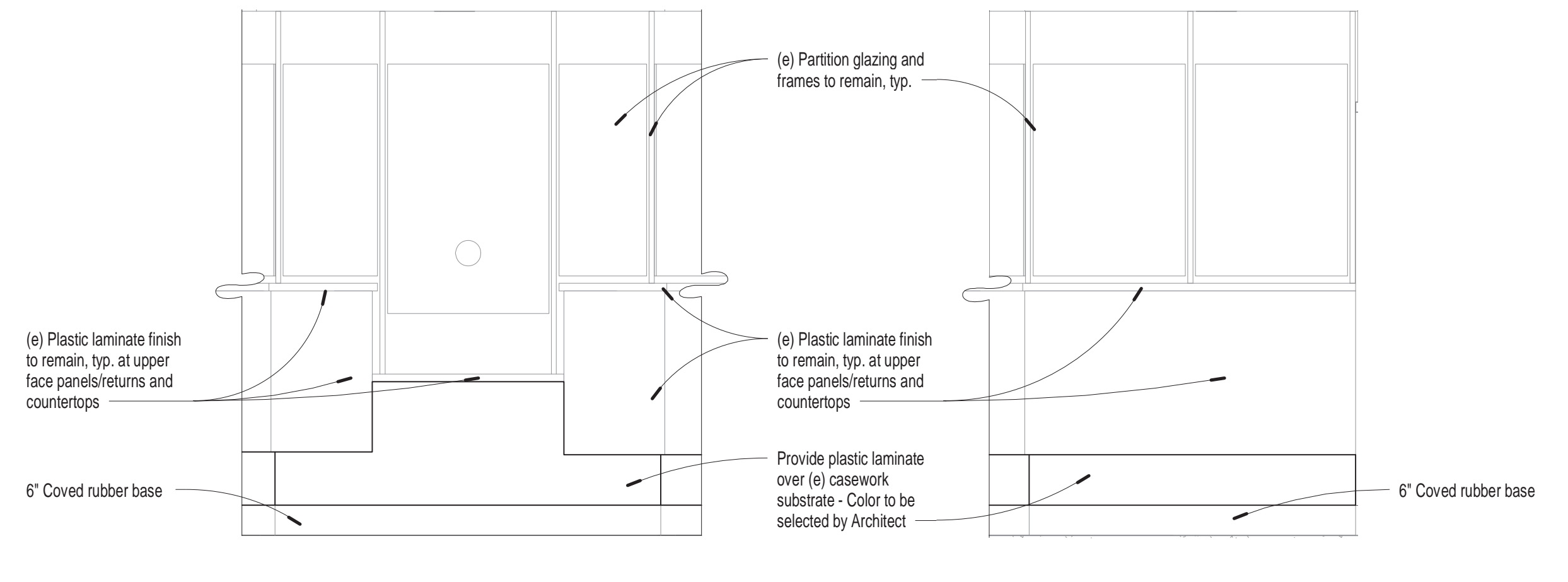
1" = 1'-0"

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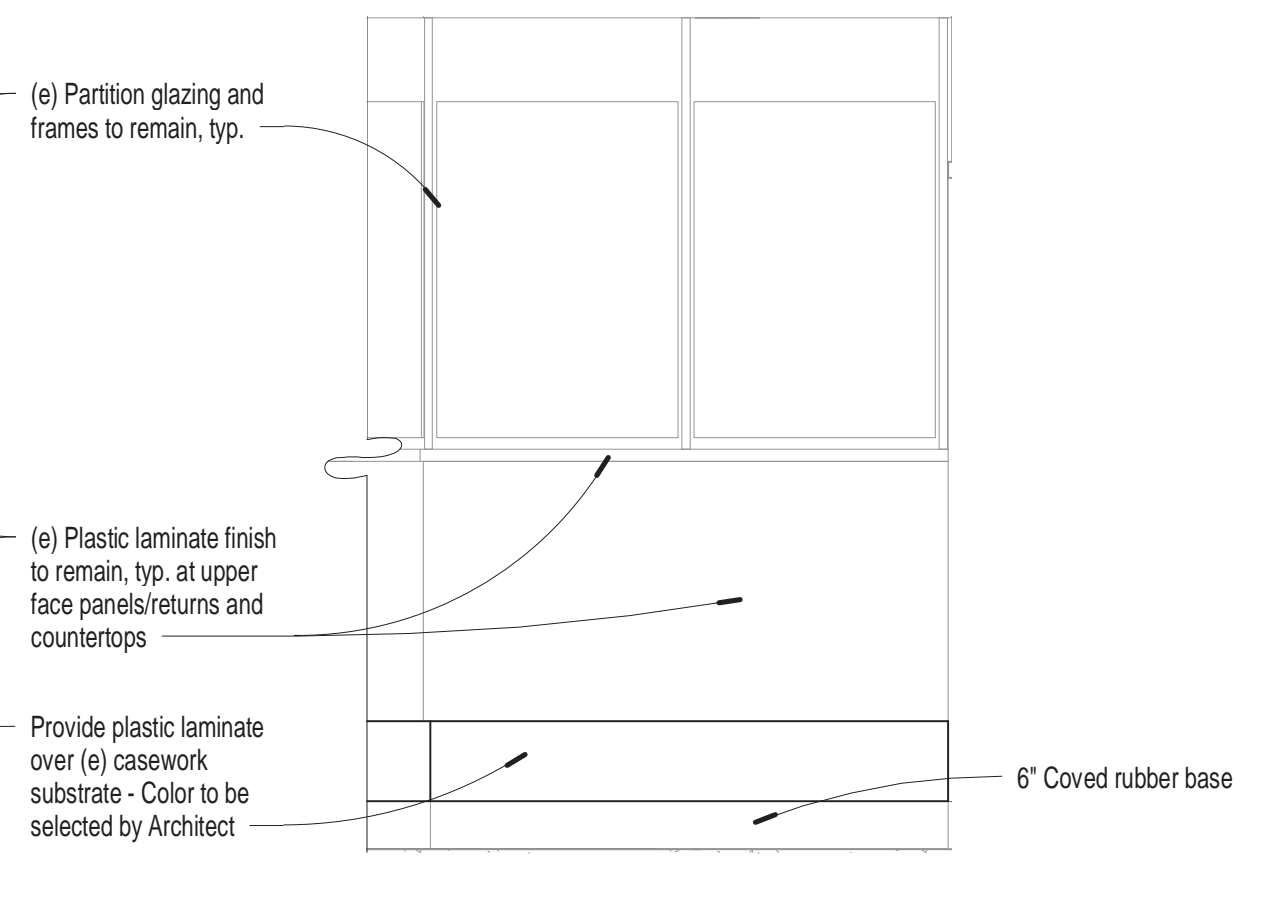
3 Clerks Counter East

1/2" = 1'-0"



2 Clerks Counter Northeast

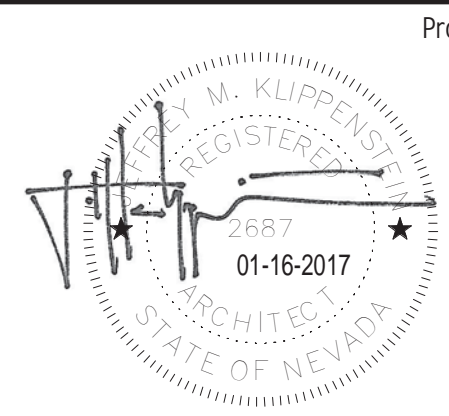
1/2" = 1'-0"



1 Clerks Counter North

1/2" = 1'-0"

1/12/2017 8:54:13 AM



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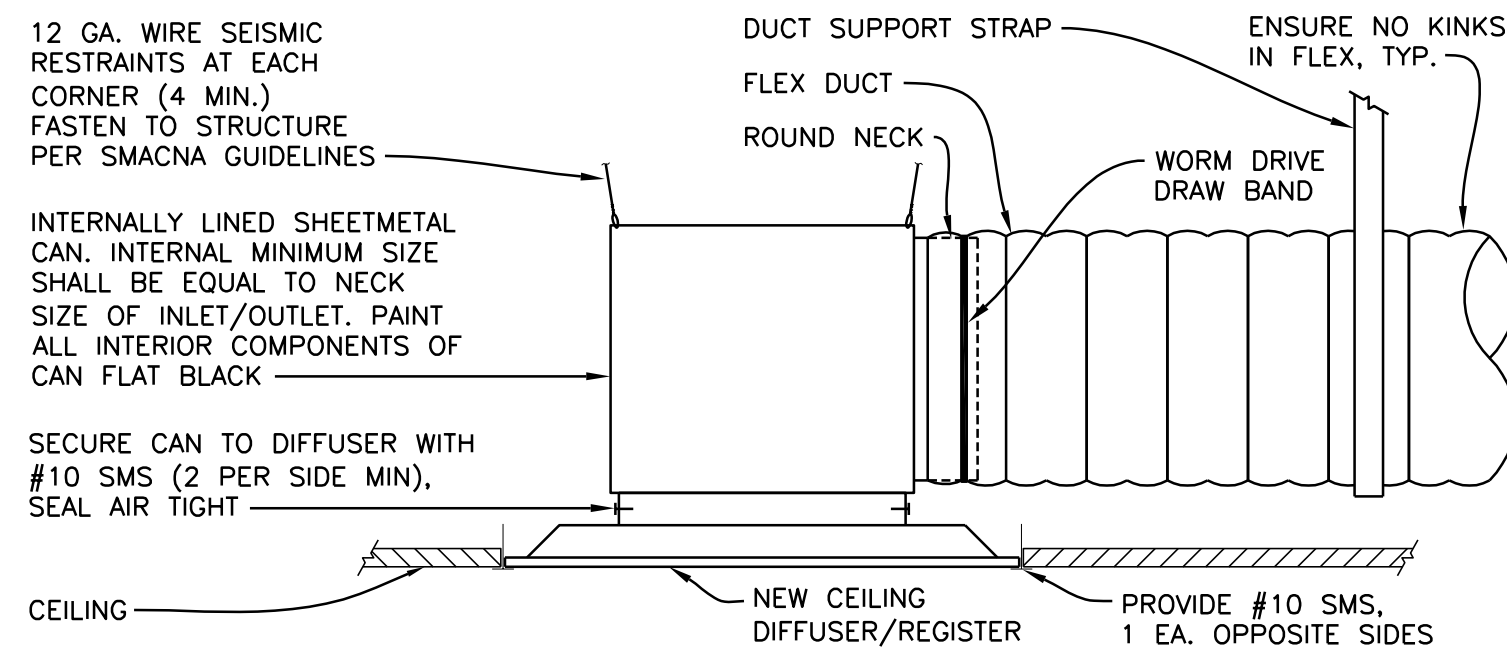
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Existing Casework
 Elevations

January 16, 2017
 H+K Project No: 1628

A802



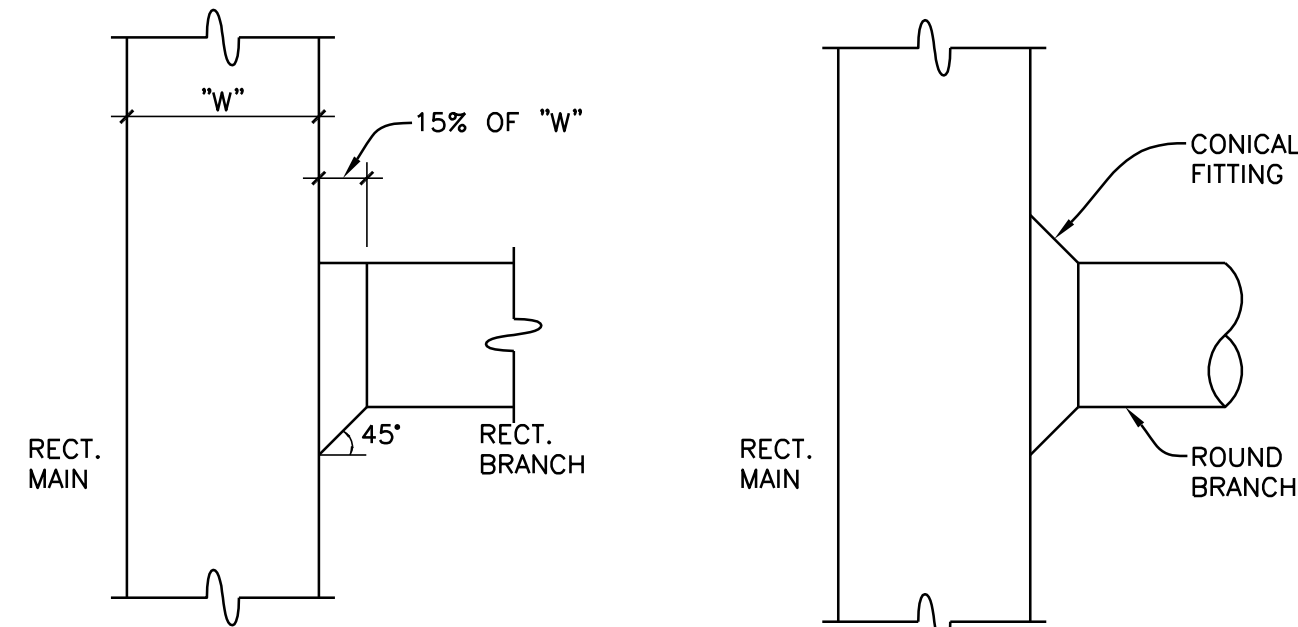


- NOTES:
1. GYP CEILING SIMILAR
 2. EACH (N)INLET/OUTLET SHALL CONTAIN A CAN PER THIS DETAIL. IF EXISTING CONDITIONS PROHIBIT SUCH AN INSTALLATION, CONTRACTOR SHALL ALERT ENGINEER TO DISCUSS ALTERNATIVES.
 3. MINIMUM BEND RADIUS FOR FLEXIBLE DUCTS SHALL NOT BE LESS THAN 1.5 DUCT DIAMETERS.

INLET/OUTLET DETAIL

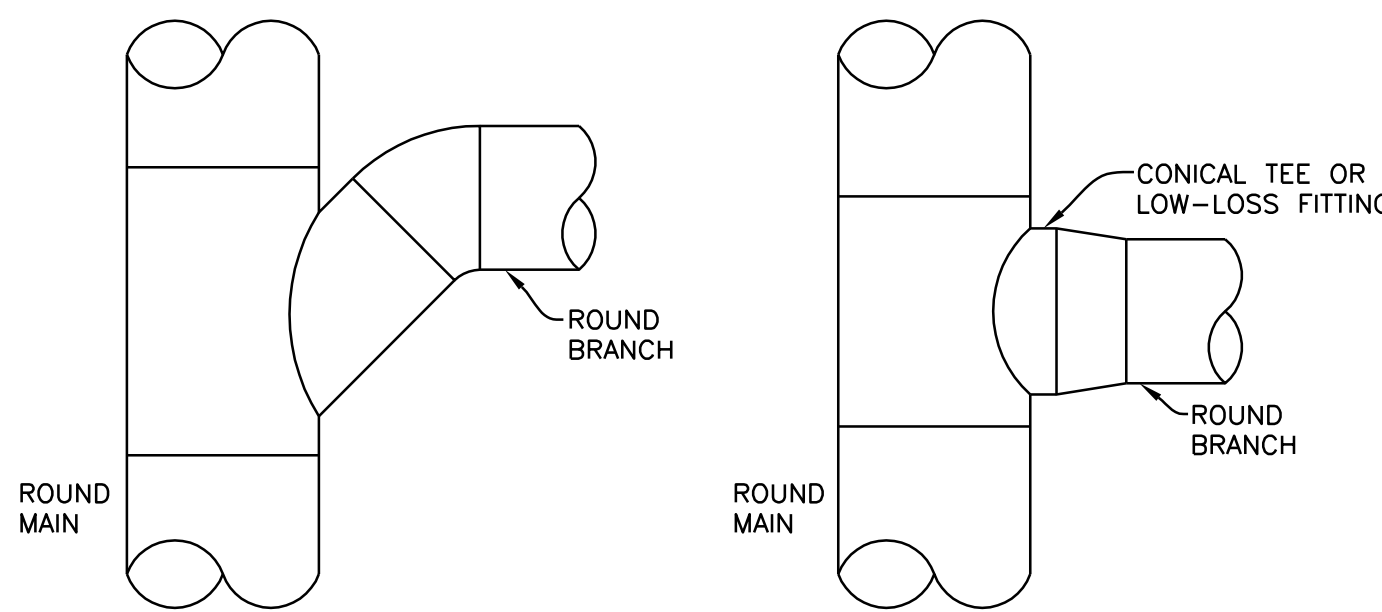
SCALE: NONE

1
M001



RECTANGULAR / RECTANGULAR

RECTANGULAR / ROUND



STRAIGHT LATERAL W/ 45°

CONICAL TEE

TYPICAL BRANCH DUCTS

SCALE: NONE

2
M001

SPECIFICATIONS

- GENERAL CONDITIONS:
1. PROVIDE WORK AND MATERIALS IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE FOLLOWING: 2012 IBC, 2012 UMC, 2012 UPC, 2009 IECC, 2012 IFC, NFPA, NEVADA REGULATORY AGENCIES, STATE FIRE MARSHAL, OSHA.
 2. PRIOR TO COMMENCEMENT OF WORK, AND WITHIN 15 DAYS AFTER AWARD OF CONTRACT, SUBMIT TO ENGINEER FOR REVIEW SEVEN COPIES OF A COMPLETE LIST OF EQUIPMENT AND MATERIALS TO BE FURNISHED, INCLUDING ALL SUBSTITUTIONS. SUBSTITUTIONS WILL BE INTERPRETED TO BE ALL MANUFACTURERS OTHER THAN THOSE SPECIFICALLY LISTED BY MODEL OR CATALOG NUMBER.
 3. MENTION HEREIN OR ON DRAWINGS REQUIRES THAT THIS CONTRACTOR PROVIDE EACH ITEM LISTED OF QUALITY NOTED OR EQUAL. ALL MATERIAL SHALL BE NEW, FULL WEIGHT, STANDARD IN ALL RESPECTS, AND IN FIRST-CLASS CONDITION. PROVIDE MATERIALS OF THE SAME BRAND OR MANUFACTURE THROUGHOUT FOR EACH CLASS OF MATERIAL OR EQUIPMENT WHEREVER POSSIBLE. MATERIALS SHALL BE TESTED WITHIN THE CONTINENTAL UNITED STATES BY INDEPENDENT, NATIONALLY RECOGNIZED TESTING AGENCY AND SHALL BE LISTED IN ACCORDANCE WITH TESTING AGENCY REQUIREMENTS.
 4. CUTTING, PATCHING, AND REPAIRING OF EXISTING (OLD) CONSTRUCTION TO PERMIT INSTALLATION OF PIPING, ETC. IS RESPONSIBILITY OF THIS CONTRACTOR. REPAIR OR REPLACE DAMAGE TO EXISTING WORK WITH SKILLED MECHANICS FOR EACH TRADE INVOLVED IN FIRST-CLASS MANNER.
 5. PROVIDE AND INSTALL ALL REQUIRED CONNECTIONS TO EXISTING SYSTEMS AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS.
 6. INTEGRATE EXISTING SYSTEMS WITH ALL NEW WORK TO PROVIDE A COMPLETE WORKING SYSTEM.
 7. PROVIDE MINIMUM OF ONE WEEK NOTICE TO OWNER OF SERVICE INTERRUPTIONS. ALL SERVICE INTERRUPTIONS SHALL BE KEPT TO THE MINIMUM POSSIBLE TIME.
 8. BE RESPONSIBLE FOR WORK DONE AND MATERIAL INSTALLED UNDER THESE PLANS AND SPECIFICATIONS. REPAIR OR REPLACE, AS MAY BE NECESSARY, ANY DEFECTIVE WORK, MATERIAL, OR PART WHICH MAY SHOW ITSELF WITHIN ONE YEAR OF FILING OF NOTICE OF COMPLETION AND BE RESPONSIBLE FOR DAMAGE TO OTHER MATERIALS, FURNISHING, EQUIPMENT, OR PREMISES CAUSED BY SUCH DEFECTS DURING THIS PERIOD, IF IN THE OPINION OF THE ENGINEER SAID DEFECT IS DUE TO IMPERFECTION OF MATERIAL OR WORKMANSHIP. PROVIDE ALL SUCH WORK AND MATERIALS AT NO COST TO OWNER.
 9. BE RESPONSIBLE FOR DAMAGE TO ANY PART OF PREMISES DURING GUARANTEE PERIOD CAUSED BY LEAKS OR BREAKS IN WORK FURNISHED AND/OR INSTALLED UNDER THIS SECTION.
 10. UPON COMPLETION OF WORK COVERED BY THIS CONTRACT, FURNISH ENGINEER WITH REPRODUCIBLE DWGS, SHOWING ALL CHANGES OF PIPING, DUCTWORK, ETC. WITHIN BUILDING AND INSTALLED UNDER THIS CONTRACT WHICH ARE NOT IN ACCORD WITH THESE DRAWINGS FOR THE PURPOSE OF PREPARING RECORD DRAWINGS.
- HVAC:
1. RECTANGULAR AND ROUND AIR DUCT SHALL BE GALVANIZED STEEL CONFORMING TO ASTM A03-55T WITH CLASS "D" COATING. DUCT GAUGES, CONSTRUCTION AND INSTALLATION SHALL CONFORM WITH THE RECOMMENDATIONS OF THE LATEST S.M.A.C.N.A. LOW PRESSURE DUCT STANDARDS. ALL INTERIOR EXPOSED DUCTWORK SHALL BE ETCHED FOR PAINTING.
 2. DUCT FITTINGS AND CIRCUMFERENTIAL JOINTS SHALL BE SEALED WITH WATER BASED VINYL ACRYLIC DUCT SEALER EQUAL TO DESIGN POLYMERICS DP1010.
 3. DUCT WRAP: ALL CONCEALED METAL SUPPLY AIR DUCT AND FITTINGS SHALL BE WRAPPED WITH FOIL FACED (FSK) 2" THICK, 3/4 POUND DENSITY FIBERGLASS INSULATION END JOINTS AND LONGITUDINAL JOINTS SHALL BE OVERLAPPED A MINIMUM OF 2 INCHES AND STAPLED SECURELY.
 4. DUCT LINER: SUPPLY AND RETURN AIR DUCTWORK AND WHERE SHOWN ON DRAWINGS SHALL BE INTERNALLY LINED WITH GLASS FIBER DUCT LINER, HAVING EROSION-RESISTANT AND FLAME-RETARDANT NEOPRENE COATING, AND HAVING A MINIMUM THERMAL RESISTANCE OF 0.23 PER DEGREE F/BTU/INCH AT 75-DEGREES F MEAN TEMPERATURE, WITH MINIMUM SOUND ABSORPTION COEFFICIENT OF 0.63 AT 500-CPS BASE ON TEST METHOD ASTM C42366. MINIMUM OF 1/2 INCH THICK, OWENS CORNING DUCT LINER OR EQUAL. DUCT SIZES ON DRAWING ARE NET.
 5. SUPPORT INTERIOR DUCTWORK IN ACCORDANCE WITH S.M.A.C.N.A. MANUAL.
 6. FLEXIBLE DUCTWORK SHALL BE THERMAFLEX M-KE OR APPROVED EQUAL, CONFORMING TO UL181 CLASS 1 REQUIREMENTS. SECURE WITH PANDUIT FASTENERS.
1. SET ALL VOLUME DAMPERS AND BALANCE SYSTEM SO THAT THE VOLUME INDICATED ON THE DRAWINGS IS BEING DELIVERED. A WRITTEN REPORT SHOWING "KA" FACTORS, FPM, AND CFM FOR EACH GRILLE, REGISTER, CEILING DIFFUSER AND TOTAL AIR VOLUME, EXTERNAL STATIC PRESSURE, RPM AND BHP FOR EACH UNIT, IS TO BE MADE AND SUBMITTED TO THE ENGINEER FOR APPROVAL UPON COMPLETION OF THE BALANCE.
 2. INSTALL ANY DAMPERS, BAFFLES, AND ADJUST SHEAVES AS IS NECESSARY TO ACCOMPLISH DESIRED RESULTS.
 3. BALANCE CONTRACTOR SHALL BE RSANALYSIS OR RAGLEN SYSTEM BALANCE, NO EXCEPTION.

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
2. ALL EQUIPMENT, PIPING, DUCTWORK, ETC., SHALL BE SUPPORTED AS REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.
3. REFER TO ARCHITECTURAL DRAWINGS FOR FULL EXTENT OF DEMOLITION AND NEW WORK TO BE PERFORMED.
4. PROVIDE MANUAL VOLUME DAMPER AT EACH BRANCH DUCT TAKEOFF. FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 5'-0" (CONCEALED LOCATIONS ONLY).
5. ALL MATERIALS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.
6. ALL DUCT BRANCH SIZES TO CEILING DIFFUSERS ARE CEILING DIFFUSER SIZE EXCEPT WHERE NOTED.
7. CD DESIGNATION "12/12 CD-4" INDICATES 12/12 DUCT CONNECTION WITH 4-WAY PATTERN (2C INDICATES A 2 WAY CORNER THROW PATTERN).
8. INFORMATION OF EXISTING CONDITIONS SHOWN ON THE DRAWINGS IS BELIEVED TO BE CORRECT BUT NOT GUARANTEED. CONTRACTOR SHALL RELY ON SITE VISIT AND NECESSARY INVESTIGATION TO INSURE THAT HIS BID IS CORRECT TO MEET THE INTENTION OF THE WORK TO BE PERFORMED. EXTRAS WILL NOT BE ALLOWED FOR FAILURE TO PERFORM THIS TASK.

AUTOMATIC FIRE SPRINKLER/FIRE PROTECTION NOTE

AUTOMATIC FIRE SPRINKLERS: THE EXISTING AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE REMODELED TO SUIT THE NEW CONDITIONS IN ACCORDANCE WITH NFPA 13, LOCAL AND STATE AUTHORITIES BY A LICENSED FIRE PROTECTION CONTRACTOR. WORK INCLUDES RELOCATION OF EXISTING PIPING AND HEADS AS REQUIRED FOR NEW SYSTEM.

AIR DISTRIBUTION

NUMBERS ARE PRICE AS BASIS FOR DESIGN, EXCEPT WHERE NOTED

| | | | |
|-----|--|----------|--|
| CD | CEILING SUPPLY DIFFUSER | T-BAR | ••MOD. SMDA TYPE 36 FRAME |
| CD | CEILING SUPPLY DIFFUSER | GYPBOARD | ••MOD. SMCD TYPE 1 FRAME |
| G | CEILING RETURN GRILLE | T-BAR | ••MOD. 80 1/2"x1/2"x1/2" TYPE TB FRAME |
| G | CEILING RETURN GRILLE | GYPBOARD | ••MOD. 80 1/2"x1/2"x1/2" TYPE D FRAME |
| MVD | MANUAL VOLUME DAMPER | | RUSKIN MDRS25 |
| • | FURNISH DIRECTIONAL BAFFLE FOR PROPER THROWS | | |
| •• | REQUIRES SQUARE TO ROUND ADAPTER | | |

ALL AIR DISTRIBUTION SHALL BE FACTORY FINISHED COLOR CODE PA "PREPARED ALUMINUM"

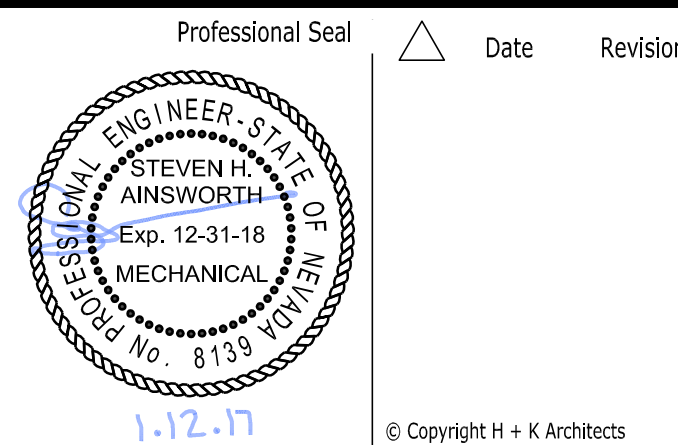
DRAWING SCHEDULE

- M001 - MECHANICAL SCHEDULES, DETAILS, AND SPECIFICATIONS
- M101 - MECHANICAL DEMOLITION PLAN
- M102 - MECHANICAL RENOVATION PLAN

LEGEND

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

| ABBREVIATION | SYMBOL | DESCRIPTION |
|--------------|--------|-------------------------------|
| SUP | | SUPPLY AIR |
| RET | | RETURN AIR |
| EXH | | EXHAUST AIR |
| CA | | COMBUSTION AIR |
| RA | | RELIEF AIR |
| TA | | TRANSFER AIR |
| OSA | | OUTSIDE AIR/MAKE-UP AIR |
| CD | | CEILING DIFFUSER |
| R | | REGISTER WITH OBD |
| FLEX.D. | | FLEXIBLE DUCT |
| FDC | | FLEXIBLE DUCTWORK CONNECTOR |
| LD | | LINED DUCTWORK |
| MVD | | MANUAL VOLUME DAMPER |
| BDD | | BACK DRAFT DAMPER |
| SGD | | SLIDE GATE DAMPER |
| G | | RETURN/EXHAUST GRILLE |
| SWR | | SIDE WALL REGISTER |
| OB | | OPPOSED BLADE DAMPER |
| FR | | FLOOR REGISTER |
| AD | | ACCESS DOOR |
| LD | | LINEAR DIFFUSER |
| SD | | SLOT DIFFUSER |
| LFM | | LAMINAR FLOW MODULE |
| FD | | FIRE DAMPER |
| AF | | AIR FLOW MEASURING STATION |
| M | | MOTORIZED DAMPER |
| FS | | COMBINATION FIRE/SMOKE DAMPER |
| T | | THERMOSTAT |
| TS | | TEMPERATURE SENSOR |
| TCP | | TEMPERATURE CONTROL PANEL |
| UC | | UNDER CUT |
| DL | | DOOR LOUVER |
| CFM | | CUBIC FEET PER MINUTE |
| RD | | ROUND |
| REF | | REFERENCE |
| LLS | | LOW LIMIT SENSOR |
| POC | | POINT OF CONNECTION |
| POD | | POINT OF DEMOLITION |
| TYP | | TYPICAL |
| REF | | REFERENCE |
| I.E. | | INVERT ELEVATION |
| STC | | SOUND TRANSMISSION CLASS |
| | | CO2 SENSOR |



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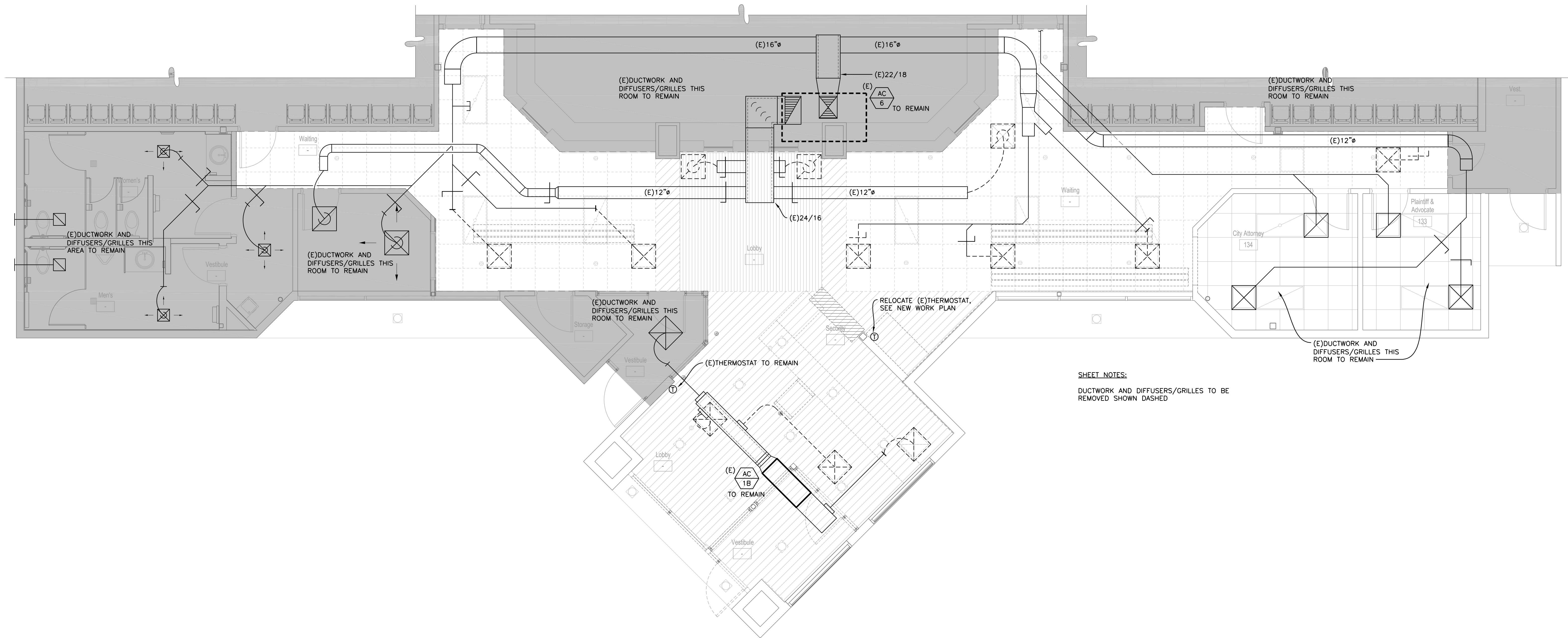
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MECHANICAL
 SCHEDULES, DETAILS,
 AND SPECIFICATIONS

January 16, 2017
 H+K Project No.: 1628

M001

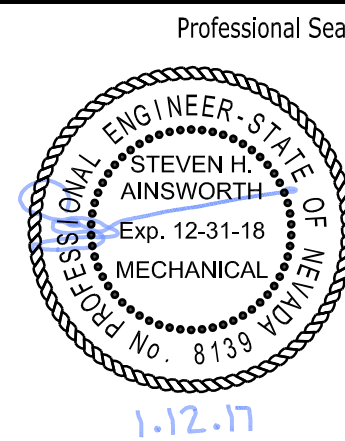




SHEET NOTES:
 DUCTWORK AND DIFFUSERS/GRILLES TO BE REMOVED SHOWN DASHED

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

A
M101



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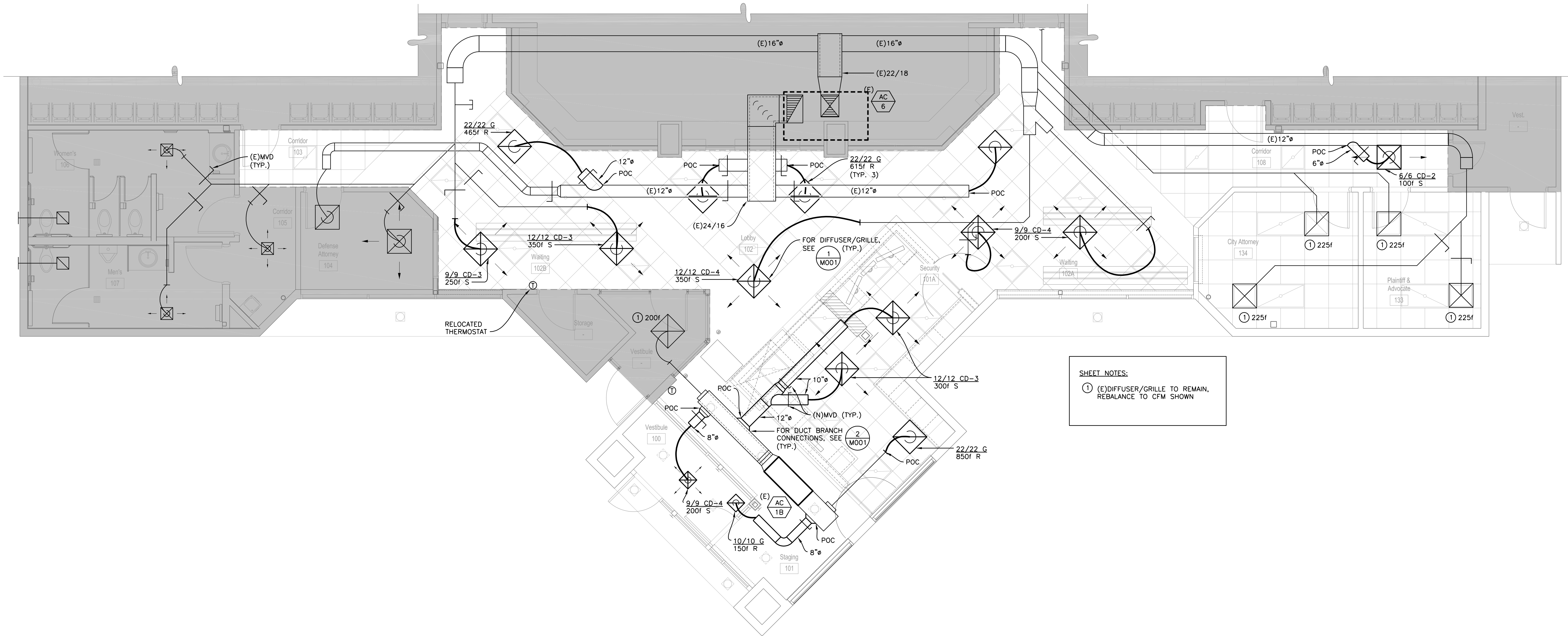
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MECHANICAL
 DEMOLITION PLAN
 January 16, 2017
 H+K Project No.: 1628
M101

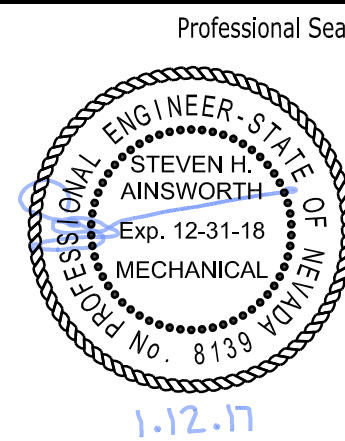




SHEET NOTES:
 ① (E) DIFFUSER/GRILLE TO REMAIN, REBALANCE TO CFM SHOWN

MECHANICAL RENOVATION PLAN
 SCALE: 1/4" = 1'-0"

A
M102



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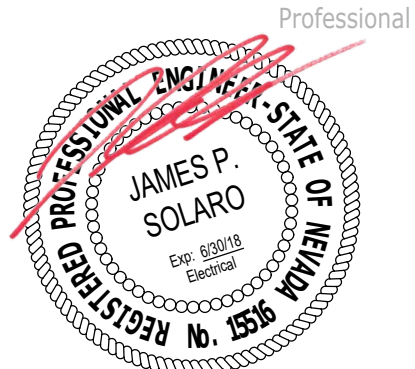
MECHANICAL RENOVATION PLAN
 January 16, 2017
 H+K Project No.: 1628
M102



| SPECIFICATIONS | |
|----------------|---|
| ITEM | DESCRIPTION |
| 16.1 | STANDARDS AND CODES: ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), AS WELL AS ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. THIS DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING WORK SHOWN OR SPECIFIED WHICH MAY EXCEED THE REQUIREMENTS OF SUCH ORDINANCES, LAWS, REGULATIONS AND CODES. |
| 16.2 | COMPLETE INSTALLATION: PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, ACCESSORIES, ETC., NECESSARY TO ACCOMPLISH A COMPLETE ELECTRICAL SYSTEM IN ACCORDANCE WITH THE PLANS TOGETHER WITH THE SPECIFICATIONS. |
| 16.3 | PERMITS: OBTAIN AND PAY FOR ALL BUILDING AND WORKING PERMITS AND INSPECTION FEES REQUIRED FOR THIS PROJECT. |
| 16.4 | DRAWINGS: DATA PRESENTED ON THESE DRAWINGS SHALL BE FIELD VERIFIED SINCE ALL DIMENSIONS, LOCATIONS, AND LEVELS ARE GOVERNED BY ACTUAL FIELD CONDITIONS. REVIEW ALL ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL AND SPECIALTY SYSTEMS DRAWINGS AND ADJUST ALL WORK TO MEET THE REQUIREMENTS ON CONDITIONS SHOWN THEREON. DO NOT SCALE ELECTRICAL PLANS FOR FIXTURE, DEVICE OR APPLIANCE LOCATIONS. USE CONFIGURED DIMENSIONS IF GIVEN OR CHECK ARCHITECTURAL OR MECHANICAL DRAWINGS. |
| 16.5 | COPYRIGHT: THESE PLANS, SPECIFICATIONS AND ALL RELATED ADDENDA AND DOCUMENTS CONSTITUTE COPYRIGHT MATERIALS OF JP ENGINEERING. ALL RIGHTS CONFERRED BY THE COPYRIGHT AND SIMILAR LAWS ARE RESERVED TO JP ENGINEERING. THESE MATERIALS SHALL REMAIN THE SOLE PROPERTY OF JP ENGINEERING AND MAY NOT BE REPRODUCED, DISTRIBUTED TO OTHERS OR USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN CONSENT OF JP ENGINEERING. |
| 16.6 | LOCATIONS: INDICATED LOCATIONS OF ALL OUTLETS AND EQUIPMENT ARE SUBJECT TO CHANGE. SHIFT/RELOCATE/RECONFIGURE ANY OUTLET, EQUIPMENT OR CONNECTION POINT UP TO 10' AS DIRECTED BY ENGINEER, AT NO ADDED COST. |
| 16.7 | RECORD DRAWINGS: CONTRACTOR SHALL PROVIDE, PRIOR TO FINAL ACCEPTANCE AND OBSERVATION, ONE SET OF REVISED RECORD ELECTRICAL CONSTRUCTION DOCUMENTS ON REPRODUCIBLE MEDIUM INDICATING THE FOLLOWING ADDITIONAL INFORMATION: EXACT ROUTING OF ALL CONDUITS LARGER THAN 1" EXACT LOCATION OF ALL SERVICE GROUNDING/BONDING CONNECTIONS CONTRACTORS NAME, ADDRESS AND TELEPHONE NUMBER RECORD NOTATIONS SHALL BE CLEARLY DRAWN AT A DRAFTING APPEARANCE EQUAL TO THE ORIGINAL DRAWINGS. CONTRACTOR SHALL ALSO PROVIDE ALL OPERATING AND MAINTENANCE MANUALS PRIOR TO FINAL PAYMENT. |
| 16.8 | EXAMINATION OF SITE AND EXISTING CONDITIONS: BEFORE SUBMITTING A PROPOSAL, CONTRACTOR SHALL EXAMINE THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND LIMITATIONS. NO EXTRAS WILL BE ALLOWED BECAUSE OF THE CONTRACTOR'S MISUNDERSTANDING OF THE AMOUNT OF WORK INVOLVED OR HIS LACK OF KNOWLEDGE OF ANY SITE CONDITIONS WHICH MAY AFFECT HIS WORK. ANY APPARENT VARIANCE OF THE DRAWINGS OR SPECIFICATIONS FROM THE EXISTING CONDITIONS AT THE SITE SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER BEFORE SUBMITTING A PROPOSAL. |
| 16.9 | TESTING: PRIOR TO PLACING IN SERVICE, ALL ELECTRICAL SYSTEMS SHALL BE TESTED FOR OPENS, GROUNDS, AND PHASE ROTATION. THE MAIN SERVICE GROUND AND ALL LOCAL TRANSFORMER MADE GROUNDS SHALL BE MEGGER-TESTED. PROVIDE GFI TESTING FOR SERVICE SWITCHBOARD. A WRITTEN COPY OF THE TEST RESULTS AND READINGS SHALL BE PROVIDED TO THE OWNER. |
| 16.10 | GROUNDING: GROUND ALL EQUIPMENT AND SYSTEM NEUTRAL IN ACCORDANCE WITH ARTICLE 250 OF THE NEC. EQUIPMENT GROUNDS HAVE NOT BEEN SHOWN ON DRAWINGS - WHERE GROUND WIRES HAVE BEEN SHOWN THEY INDICATE AN INSULATED GROUND. |
| 16.11 | EQUIPMENT STANDARDS: ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND OF THE HIGHEST QUALITY AVAILABLE ("SPECIFICATION GRADE"). SERVICE EQUIPMENT SHALL BE FACTORY-ASSEMBLED COMMERCIAL-GRADE, CONFIGURED PER SERVING UTILITY STANDARDS. WIRING DEVICES SHALL BE SPECIFICATION GRADE WITH NYLON PLATES, WHITE UNLESS OTHERWISE NOTED, RAISED STEEL BOX COVERS MAY BE USED IN UTILITY AREAS. |
| 16.12 | TAMPER-PROOF: ALL EQUIPMENT AND CIRCUITING ACCESSIBLE BY THE PUBLIC SHALL BE TAMPER-PROOF AND VANDAL RESISTANT. OPENABLE DEVICES AND EQUIPMENT SHALL BE PADLOCKABLE. |
| 16.13 | CIRCUITING: ALL WIRING SHALL BE IN CONDUIT, CONCEALED EXCEPT WHERE NOTED. EMT WITH STEEL SET SCREW INSULATED-THROAT FITTINGS MAY BE USED IN DRY, PROTECTED INTERIOR LOCATIONS. PVC SCHEDULE 40 SHALL BE USED BELOW GRADE AT MINIMUM -24". WRAPPED RIGID ELBOWS AND RISERS SHALL BE USED FOR ALL THROUGH-GRADE TRANSITIONS AND STUB-UPS. RGS OR IMC CONDUIT WITH THREADED FITTINGS SHALL BE USED IN ALL LOCATIONS WHERE EXPOSED TO THE ELEMENTS OR SUBJECT TO PHYSICAL DAMAGE. METAL-CLAD CABLE (TYPE MC) WILL BE ACCEPTABLE FOR INSTALLATION AS FLEXIBLE WHIPS FROM JUNCTION BOXES TO LIGHTING FIXTURES AND WITHIN CASEWORK. TYPE MC CABLE MAY NOT BE USED FOR HOMERUNS OR SINGLE BRANCH CIRCUITS. ENT IS NOT ALLOWED. CONNECT RECESSED AND SUSPENDED LIGHTING FIXTURES, MOTORIZED AND VIBRATING EQUIPMENT WITH STEEL FLEX. ALL CONDUIT SHALL HAVE PULL CORD IF OTHERWISE EMPTY. |

| ITEM | DESCRIPTION |
|-------|---|
| 16.14 | PANELBOARDS: PANELS SHALL HAVE FLUSH MONO-FLAT TRIM, LOCKING DOOR-IN-DOOR HINGED COVERS AND BOLT-ON CIRCUIT BREAKERS. FLUSH-MOUNTED PANELS SHALL HAVE EMPTY CONDUITS STUBBED TO ACCESSIBLE ATTIC SPACE. ONE 1" CONDUIT FOR EACH FOUR SPARE/SPACE CIRCUITS. PROVIDE ONE TYPED AND ONE SPARE PANEL SCHEDULE FOR OWNER'S USE. SCHEDULES SHALL BE TWO COLUMN TYPE WITH ODD CIRCUIT NUMBERS ON THE LEFT AND EVEN NUMBERS ON THE RIGHT. |
| 16.15 | WIRING: WIRE SHALL BE COPPER UNLESS OTHERWISE INDICATED. MINIMUM WIRE SIZE SHALL BE #12 AWG. INSULATION SHALL BE THW, THWN OR THHN. |
| 16.16 | FUSES: FUSES SHALL BE SIZED PER ACTUAL NAMEPLATE OF EQUIPMENT SERVED. FUSES SHALL BE DUAL-ELEMENT, CURRENT-LIMITING, AND SHALL BE INTERCHANGEABLE BETWEEN FRAME SIZES WITH STANDARD FACTORY FUSE REDUCERS. FUSES SHALL BE AS FOLLOWS UNLESS OTHERWISE INDICATED: CIRCUITS 601 TO 6000 AMPERES SHALL BE PROTECTED BY CURRENT LIMITING BUSSMANN LOW-PEAK TIME-DELAY FUSES KRP-C - UL CLASS L CIRCUITS 0 TO 600 AMPERES SHALL BE PROTECTED BY CURRENT LIMITING BUSSMANN LOW-PEAK DUAL-ELEMENT FUSES LPN-RK (250 VOLTS) OR LPS-RK (600 VOLTS) - UL CLASS RK1 ALL INDIVIDUAL MOTOR CIRCUITS RATED 480 AMPERES OR LESS SHALL BE PROTECTED BY BUSSMANN LOW-PEAK DUAL-ELEMENT FUSES LPN-RK (250 VOLTS) OR LPS-RK (600 VOLTS)-UL CLASS RK1 OR L CIRCUIT BREAKER PANELS SHALL BE PROTECTED BY BUSSMANN LOW-PEAK DUAL-ELEMENT FUSES LPN-RK (250 VOLTS), LPS-RK (600 VOLTS) OR BUSSMANN LOW-PEAK KRP-C TIME-DELAY FUSES - UL CLASS RK1 OR L ALL DUAL-ELEMENT FUSES SHALL HAVE SEPARATE OVERLOAD AND SHORT-CIRCUIT ELEMENTS. PROVIDE SPARE FUSE CABINET AFTER THE COMPLETION OF THE PROJECT WITH ONE SET OF SPARE FUSES FOR EVERY SIZE USED. |
| 16.17 | UTILITY SERVICES: PROVIDE POWER AND COMMUNICATIONS SYSTEM SERVICES IN ACCORDANCE WITH THE REQUIREMENTS OF THE SERVING UTILITIES. PROVIDE EXCAVATION, RACEWAY, STRUCTURES, GROUNDING, ETC. AS REQUIRED. CONTACT SERVING UTILITIES AND OBTAIN THEIR PROJECT SPECIFIC REQUIREMENTS PRIOR TO BID. UTILITY WORK INDICATED HEREIN IS FOR BIDDING ASSISTANCE ONLY. THESE PLANS DO NOT PURPORT TO INDICATE ALL WORK REQUIRED. (UTILITY SERVICE CHARGES PAID BY OTHERS). |
| 16.18 | TEMPORARY CONSTRUCTION POWER: PROVIDE TEMPORARY ELECTRICAL POWER AND LIGHTING FOR ALL TRADES THAT REQUIRE SERVICE DURING THE COURSE OF THIS PROJECT. PROVIDE TEMPORARY SERVICE AND DISTRIBUTION AS REQUIRED. COMPLY WITH THE NEC AND OSHA REQUIREMENTS. (ENERGY COSTS BY OTHERS). |
| 16.19 | SUBMITTALS: BEFORE ORDERING ANY EQUIPMENT, CONTRACTOR SHALL SUBMIT SIX COPIES OF FACTORY SHOP DRAWINGS FOR ALL LIGHTING FIXTURES, SWITCHGEAR, PANELS, MOTOR CONTROLLERS, WIRING DEVICES, ETC. PROPOSED FOR THIS PROJECT. |
| 16.20 | SUBSTITUTIONS: PROPOSED SUBSTITUTIONS SHALL BE EQUAL OR SUPERIOR TO SPECIFIED ITEMS IN ALL RESPECTS. DETERMINATION OF EQUALITY RESTS SOLELY WITH ENGINEER. SUBSTITUTIONS MUST BE SUBMITTED A MINIMUM OF 10 WORKING DAYS PRIOR TO BID FOR CONSIDERATION. PROPOSED SUBSTITUTIONS PROVIDED LATER WILL NOT BE REVIEWED OR ALLOWED. BID SUBSTITUTED MATERIAL WILL ONLY BE ALLOWED IF ACCEPTED IN WRITING BY ENGINEER. |
| 16.21 | IDENTIFICATION: PROVIDE ENGRAVED NAMEPLATES FOR ALL SWITCHBOARDS, PANELS, TRANSFORMERS, DISCONNECTS, MOTOR STARTERS, CONTACTORS, TIME SWITCHES AND CABINETS. NAMEPLATES SHALL INCLUDE THE FOLLOWING INFORMATION AS APPLICABLE: DESIGNATION (i.e. PANEL A) FUNCTION (i.e. AIR HANDLER AH-1) VOLTAGE, PHASE, WIRE (i.e. 480 VOLT, 3Ø, 4W) FEEDER SIZE (i.e. 4-#4/0 THWN CU IN 2" C.) SOURCE (i.e. SWITCHBOARD MSB) NAMEPLATES SHALL BE WHITE LETTERS ON BLACK FOR NORMAL EQUIPMENT AND WHITE LETTERS ON RED FOR EMERGENCY EQUIPMENT. |
| 16.22 | GUARANTEE: THE COMPLETE ELECTRICAL SYSTEM, AND ALL PORTIONS THEREOF, SHALL BE GUARANTEED TO BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. PROMPTLY REMEDY SUCH DEFECTS AND ANY SUBSEQUENT DAMAGE CAUSED BY THE DEFECTS OR REPAIR THEREOF AT NO EXPENSE TO THE OWNER. LAMPS ARE EXEMPT FROM THIS GUARANTEE, BUT SHALL BE NEW AT TIME OF FINAL ACCEPTANCE. |
| 16.23 | COORDINATION: THE CIVIL, ARCHITECTURAL, MECHANICAL, KITCHEN AND INTERIOR DRAWINGS CONTAIN DETAIL DESCRIPTIONS, CIRCUITING AND CONNECTION REQUIREMENTS WHICH ARE PART OF DIVISION 16 RESPONSIBILITIES. ELECTRICAL CONTRACTOR SHOULD NOT SUBMIT BIDS ON THIS PROJECT BEFORE REVIEWING ALL PROJECT DRAWINGS, SPECIFICATIONS AND ADDENDA. |

| MASTER SYMBOL LIST | | | | | |
|---|--|---|---|---------------|--------------------------------|
| SIGNAL OUTLETS | | RECEPTACLES | | ABBREVIATIONS | |
| ▼ | TELEPHONE: 4S BOX WITH SINGLE GANG MUD RING UON, +18" AFF UON | ⊕ ⊖ | DUPLEX: 20A, 125V, NEMA 5-20, +18" AFF | ⏟ | CENTERLINE |
| ⊕ ⊖ | TELEPHONE: 4S BOX WITH SINGLE GANG MUD RING UON, WALL MOUNT +54" AFF UON | ⊕ ⊖ | DOUBLE DUPLEX: 20A, 125V, NEMA 5-20, +18" AFF | AFF | ABOVE FINISHED FLOOR |
| ▽ | DATA: 4S BOX WITH SINGLE GANG MUD RING UON, +18" AFF UON | ⊕ ⊖ | HALF SWITCHED DUPLEX: 20A, 125V, NEMA 5-20, +18" AFF (TOP HALF SWITCHED) | AIC | AMPERES INTERRUPTING CAPACITY |
| ▽ | VOICE/DATA: 4S BOX WITH SINGLE GANG MUD RING UON, +18" AFF UON | ⊕ ⊖ | DUPLEX GFCI: 20A, 125V, GFCI, NEMA 5-20 GFR, +18" AFF | AFB | ABOVE FINISH CEILING |
| ⊕ ⊖ | TELEVISION: 4S BOX WITH SINGLE GANG MUD RING UON, +18" AFF UON | ⊕ ⊖ | DUPLEX I.G.: 20A, 125V, ISO. GND., NEMA 5-20 IG +18" AFF (WHITE WITH ORANGE TRIANGLE, UON) | BMS | BUILDING MANAGEMENT SYSTEM |
| ⊕ ⊖ | CAMERA: 4S BOX WITH SINGLE GANG MUD RING UON, CEILING MOUNTED UON | ⊕ ⊖ | DOUBLE DUPLEX I.G.: 20A, 125V, ISO. GND., NEMA 5-20 IG +18" AFF (WHITE WITH ORANGE TRIANGLE, UON) | C | CONDUIT |
| ⊕ ⊖ | MICROPHONE: 4S BOX WITH SINGLE GANG MUD RING UON, +18" AFF UON | ⊕ ⊖ | SPECIAL RECEPTACLE - AS INDICATED ON PLANS, +18" AFF | CB | CIRCUIT BREAKER |
| ⊕ ⊖ | VOLUME CONTROL: 4S BOX WITH SINGLE GANG MUD RING UON, +48" TO TOP UON | NOTE: DIAMOND SYMBOLS INDICATES DEDICATED CIRCUIT. | | | |
| ⊕ ⊖ | SPEAKER: 8" COAXIAL WITH BACK BOX AND GRILLE, CEILING MOUNTED UON | EQUIPMENT | | | |
| SWITCHES | | ⊕ ⊖ | SWITCHBOARD | DPDT | DOUBLE POLE DOUBLE THROW |
| S | SINGLE POLE: 20A, 120/277V, +48" TO TOP UON | ⊕ ⊖ | PANELBOARD: SURFACE MOUNTED | DPST | DOUBLE POLE SINGLE THROW |
| S ₂ | TWO POLE: 20A, 120/277V, +48" TO TOP UON | ⊕ ⊖ | PANELBOARD: FLUSH MOUNTED | (E) | EXISTING TO REMAIN |
| S ₃ | THREE WAY: 20A, 120/277V, +48" TO TOP UON | ⊕ ⊖ | TRANSFORMER | ELEV | ELEVATOR |
| S ₄ | FOUR WAY: 20A, 120/277V, +48" TO TOP UON | ⊕ ⊖ | RELAY (120V COIL, STEP DN XFMR IF REQUIRED, UON) | EMT | ELECTRICAL METALLIC TUBING |
| S _X | X INDICATES EMERGENCY CIRCUIT | ⊕ ⊖ | CONTACTOR (120V COIL, STEP DN XFMR IF REQUIRED, UON) | EPO | EMERGENCY POWER OFF SYSTEM |
| S _P | P INDICATES PILOT LIGHT (LIGHTED WHEN ON) | ⊕ ⊖ | COMBINATION MAGNETIC STARTER/FUSED DISCONNECT | FBO | FURNISHED BY OTHERS |
| S _L | L INDICATES PILOT LOCATOR (LIGHTED WHEN OFF) | ⊕ ⊖ | NON-FUSIBLE DISCONNECT SWITCH | FPEN | FUSE PER EQUIPMENT NAMEPLATE |
| S _K | K INDICATES KEY OPERATED SWITCH | ⊕ ⊖ | FUSIBLE DISCONNECT SWITCH | FLUOR | FLUORESCENT |
| S _M | MANUAL MOTOR STARTER: 20A, 120/277V, POLES AND HEATERS AS REQUIRED | ⊕ ⊖ | PULLBOX: SIZE AS REQUIRED BY NEC | FU | FUSE: DUAL-ELEMENT, TIME DELAY |
| S _{MC} | MOMENTARY CONTACT: 20A, 120/277V, SPDT CENTER NORMALLY OFF UON, +48" TO TOP UON | ⊕ ⊖ | JUNCTION BOX: SIZE AS REQUIRED BY NEC | GF/GFCI | GROUND FAULT INTERRUPTER |
| D | DIMMER: 600 WATT UON, ELECTRONIC SLIDER, WITH ON/OFF TOGGLE, +48" TO TOP UON (PLANS SHALL INDICATE TYPE: FLUOR, INCAND OR LOW-VOLTAGE) | ⊕ ⊖ | SURFACE RACEWAY WITH OR WITHOUT DEVICES | GND | GROUND |
| ◆ | MOTION/OCCUPANCY SENSOR SWITCH WITH OFF-AUTO SELECTOR - WALL MOUNTED AT +48" TO TOP UON | ⊕ ⊖ | TELEPOWER POLE | HOA | HAND-OFF-AUTOMATIC |
| ⊕ ⊖ | ULTRASONIC MOTION/OCCUPANCY SENSOR SWITCH CEILING MOUNTED | CIRCUITING | | | |
| ⊕ ⊖ | ARROWS INDICATE DIRECTION AND COVERAGE PROVIDE WITH POWER PACK PER MANUFACTURERS REQUIREMENTS | — | CONDUIT IN WALL OR ABOVE CEILING | INCAND | INCANDESCENT |
| ⊕ ⊖ | PHOTO ELECTRIC SWITCH: 1600VA UON | — | CONDUIT IN FLOOR OR BELOW GRADE | K | kcmil (300K = 300 kcmil) |
| METHODS | | — | METAL CLAD CABLE (MC) | LTG | LIGHTING |
| ⊕ ⊖ | SHADING INDICATES: FIXTURE, OUTLET, EQUIPMENT, ETC. ON EMERGENCY 'X' OR NIGHT LIGHT 'NL' CIRCUIT | —OH— | OVERHEAD SERVICE | LV | LOW VOLTAGE |
| SS ⊕ | DEVICE MOUNTED IN MULTIPLE UNDER COMMON COVER MAXIMUM HEIGHT ON WALL SHALL BE +48" TO TOP UON | —P— | PRIMARY | MCP | MOTOR CIRCUIT PROTECTOR |
| ⊕ ⊖ | DEVICES MOUNTED IN OR ABOVE COUNTER/BACKSPASH: MAXIMUM HEIGHT ON WALLS SHALL BE +48" TO TOP UON | —S— | SECONDARY | MC | MULTI-CONDUCTOR CABLE |
| ⊕ ⊖ | FLUSH FLOOR MOUNTED WIRING DEVICES | —T— | TELEPHONE | (N) | NEW |
| ⊕ ⊖ | FLUSH FLOOR MOUNTED WIRING DEVICES IN SINGLE MULTI-COMPARTMENT BOX | —TV— | TELEVISION | NC | NORMALLY CLOSED |
| ⊕ ⊖ | RECEPTACLE MOUNTED IN CEILING OR CASEWORK | — | LOW VOLTAGE AND/OR CONTROL CIRCUITING | NEUT | NEUTRAL |
| ⊕ ⊖ | FINE DASHING INDICATES EXISTING EQUIPMENT AND DEVICES TO BE REMOVED | — | EMERGENCY CIRCUIT | NL | NIGHT LIGHT |
| DESIGNATIONS | | — | STUB OUT: MARK AND CAP (SITE) | NO | NORMALLY OPEN |
| ⊕ ⊖ | LIGHT FIXTURE: F1 = TYPE (SEE FIXTURE SCHEDULE) | — | CIRCUITING UP OR DOWN | NTS | NOT TO SCALE |
| ⊕ ⊖ | SHEET NOTE | TICS = NO. OF #12 WIRES (UON) IF MORE THAN TWO WITHIN CONDUIT OR MC | | | |
| ⊕ ⊖ | REVISION DELTA: NUMBER REPRESENTS REVISION | ISOLATED GROUNDING CONDUCTOR | | | |
| ⊕ ⊖ | MECHANICAL AND PLUMBING EQUIPMENT | GROUNDING CONDUCTOR | | | |
| ⊕ ⊖ | MISCELLANEOUS: THESE AND OTHER SYMBOLS AS INDICATED IN TABLES AND SCHEDULES ON THE PLANS. | NEUTRAL CONDUCTOR (ONE PER PHASE CONDUCTOR) | | | |
| MISCELLANEOUS | | PHASE CONDUCTOR(S) | | | |
| ⊕ ⊖ | THERMOSTAT: AT +34" TO TOP UON (OR PER MECH PLANS) | HOMERUN DESIGNATION | | | |
| ⊕ ⊖ | EXHAUST FAN: FRACTIONAL HORSEPOWER | PHASE CONDUCTOR(S) | | | |
| ⊕ ⊖ | MOTOR: NUMBER = HORSEPOWER | GROUNDING CONDUCTOR | | | |
| ⊕ ⊖ | SIGNAGE CONNECTION | ISOLATED GROUNDING CONDUCTOR | | | |
| ⊕ ⊖ | SHUNT TRIP STATION: +7"-6" AFF, 12" RED TRIANGLE, UON | NEUTRAL CONDUCTOR (ONE PER PHASE CONDUCTOR) | | | |
| ⊕ ⊖ | CONTROL STATION: AT +48" TO TOP UON | PANEL DESIGNATION | | | |
| ⊕ ⊖ | DUAL LEVEL LIGHTING CONTROL SWITCH 'a' = CENTER (1) LAMP SWITCH 'b' = OUTER (2) LAMPS | | | | |
| NOTE: THIS IS A MASTER SYMBOL LIST, ALL SYMBOLS SHOWN MAY NOT BE USED WITHIN THIS SET OF PLANS | | | | | |



| △ | Date | Revision |
|---|---------|-----------------------|
| 1 | 1-10-17 | Plan Review Revisions |
| | 1-16-17 | Bid Documents |

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**Sparks Municipal Court
Security Entrance Remodel**

1450 C Street
Sparks, Nevada 89431

SYMBOL LIST
AND SPECIFICATIONS

January 16, 2017
H+K Project No.: 1628

E001



| EQUIPMENT: K-KITCHEN, L-LIGHTING, H-HEAT, M-MOTOR, H-H MOTOR (LARGEST), R-RECEPTS | | | | | | | | | | LOCATION: ELECTRICAL ROOM | | | |
|---|-----------------------|----------|------|-----|--------------|---|----------|------|----------------------------|---------------------------|----------------------|----------------------|--|
| DF | DESCRIPTION | LOAD | BKR | CIR | A | B | C | CIR | BKR | LOAD | DESCRIPTION | DF | |
| | LIGHTS 112, 113 | | 20/1 | 1 | 0 | | | | 2 | 20/1 | LIGHTS 130, 129 | | |
| | LIGHTS 116, 117 | | 20/1 | 3 | | 0 | | | 4 | 20/1 | LIGHTS 131 | | |
| | LIGHTS 118, 119 | | 20/1 | 5 | | | | | 6 | 20/1 | LIGHTS 105 | | |
| | LIGHTS 121, 122 | | 20/1 | 7 | 0 | | | | 8 | 20/1 | LIGHTS 101 | | |
| | LIGHTS 104 | | 20/1 | 9 | | 0 | | | 10 | 20/1 | LIGHTS 133, 134, 103 | | |
| | LIGHTS 104 | | 20/1 | 11 | | | 0 | | 12 | 20/1 | LIGHTS 101 | | |
| | LIGHTS 123, 124 | | 20/1 | 13 | 0 | | | | 14 | 20/1 | LIGHTS 139, 140 | | |
| | LIGHTS CORRIDOR | | 20/1 | 15 | | | 0 | | 16 | 20/1 | LIGHTS 135, 136 | | |
| | LIGHTS 135 | | 20/1 | 17 | | | | 0 | 18 | 20/1 | LIGHTS 141, 142 | | |
| | LIGHTS 135 | | 20/1 | 19 | 0 | | | | 20 | 20/1 | EXIT LIGHTS | | |
| | TELEPHONE BOARD | | 20/1 | 21 | | 0 | | | 22 | 20/1 | RECEPTS, 100A, 135 | | |
| | CLERKS RECEPTACLES | | 20/1 | 23 | | | 0 | | 24 | 20/1 | RECEPTS, 135 COUNTER | | |
| | JUDGE RECEPTACLES | | 20/1 | 25 | 0 | | | | 26 | 20/1 | RECEPTS, 135 | | |
| | VAULT | | 20/1 | 27 | | 0 | | | 28 | 20/1 | RECEPTS, 113, 112 | | |
| | JUDGES OFFICE DEPT. 1 | | 20/1 | 29 | | | 0 | | 30 | 20/1 | RECEPTS, 110 | | |
| | LIGHTS 123, 124 | | 20/1 | 31 | 0 | | | | 32 | 20/1 | RECEPTS, 105 | | |
| | LIGHTS 131 | | 20/1 | 33 | | 0 | | | 34 | 20/1 | RECEPTS, 105 | | |
| R | SECURITY | 1200 | 20/1 | 35 | | | | 1200 | 36 | 20/1 | RECEPTS, 142 | | |
| | | | | 30 | 37 | 0 | | | 38 | 20/1 | MARSHALLS OFFICE | | |
| | HEATER JUDGES OFFICE | | | | | | 1260 | | 40 | 20/1 | SECURITY | R | |
| | | | | 3 | 41 | | | | 0 | 42 | 50/1 | FRONT DESK PLUGS/UPS | |
| | | | | | | | 1260 | | | | | | |
| | | | | | | | | 1200 | | | | | |
| AMPS: | | 225 | | | NEUTRAL BUS: | | 100% | | CON. KVA: | | 2.5 | | |
| VOLTAGE: | | 208 | | | GROUND BUS: | | STANDARD | | CON. AMPS: | | 6.8 | | |
| PHASE / WIRE: | | 3-PH, 4W | | | AIC RATING: | | | | NET KVA: | | 2.5 | | |
| MAIN: | | | | | NEMA RATING: | | 1 | | NET AMPS: | | 6.8 | | |
| LUGS: | | MLO | | | PANEL: | | | | Notes: | | | | |
| MOUNTING: | | FLUSH | | | (E) A | | | | CHALLENGER PANELBOARD WITH | | | | |
| BUS: | | COPPER | | | | | | | SYLVANIA CIRCUIT BREAKERS | | | | |
| DOOR: | | STANDARD | | | | | | | | | | | |

| LIGHTING FIXTURE SCHEDULE | | | |
|--|--------|--------|---|
| LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE TRIMS, BALLASTS, MOUNTING EQUIPMENT, FITTINGS AND LAMPS AS REQUIRED BY THE SPECIFICATIONS AND PROJECT CONDITIONS FOR A COMPLETE INSTALLATION. THIS IS NOT A STANDALONE SCHEDULE AND FIXTURES MUST INCORPORATE ALL WORK INDICATED OR IMPLIED THROUGHOUT THE DRAWINGS AND SPECIFICATIONS. | | | |
| TYPE | SYMBOL | SKETCH | DESCRIPTION AND MANUFACTURER |
| L1 | ○ | | 6" RECESSED DOWNLIGHT WITH WHITE BAFFLE. PROVIDE WITH 6" RECESSED HOUSING, WHITE BAFFLE. MOUNTING HEIGHT: RECESSED LAMP: 8.9W, 620 LUMEN LED VOLTAGE: 120V MANUFACTURER: LITHONIA: 6BP MW HL LED LCG SUBSTITUTIONS: ○ OR EQUAL ● SUBJECT TO REVIEW ○ NO EQUAL |
| L2 | □ | | LED 2'x2' RECESSED LUMINAIRE, WHITE FINISH, FLUSH STEEL FRAME, METAL DIFFUSER, ROUND HOLES AND 1-410V DIMMING DRIVER. MOUNTING HEIGHT: RECESSED, T-BAR LAMP: LED, 3150 LUMEN VOLTAGE: 120V MANUFACTURER: LUMENACRAFT: 22TF 35W 40K UNV 10V SUBSTITUTIONS: ○ OR EQUAL ● SUBJECT TO REVIEW ○ NO EQUAL |
| L2X | □ | | LED 2'x2' RECESSED LUMINAIRE, WHITE FINISH, FLUSH STEEL FRAME, METAL DIFFUSER, ROUND HOLES, 1-10V DIMMING DRIVER AND EMERGENCY BATTERY PACK. MOUNTING HEIGHT: RECESSED, T-BAR LAMP: LED, 3150 LUMEN VOLTAGE: 120V MANUFACTURER: LUMENACRAFT: 22TF 35W 40K UNV 10V EMB SUBSTITUTIONS: ○ OR EQUAL ● SUBJECT TO REVIEW ○ NO EQUAL |
| L3 | □ | | LED 2'x4' RECESSED LUMINAIRE, WHITE FINISH, FLUSH STEEL FRAME, METAL DIFFUSER, ROUND HOLES AND 1-10V DIMMING DRIVER. MOUNTING HEIGHT: RECESSED, T-BAR LAMP: LED, 4200 LUMEN VOLTAGE: 120V MANUFACTURER: LUMENACRAFT: 24TF 42W 40K UNV 10V SUBSTITUTIONS: ○ OR EQUAL ● SUBJECT TO REVIEW ○ NO EQUAL |
| X1 | EXIT | | LED, COMBINATION EMERGENCY EGRESS FIXTURE AND EXIT SIGN WITH GREEN STENCIL LETTERS, INTEGRAL BATTERY AND CHARGER. MOUNTING HEIGHT: ABOVE DOOR LAMP: INCLUDED VOLTAGE: 120/277 MANUFACTURER: LITHONIA: LHQM S W 3 G 120/277 N SUBSTITUTIONS: ○ OR EQUAL ● SUBJECT TO REVIEW ○ NO EQUAL |
| X2 | EXIT | | EXTERIOR RATED EMERGENCY LIGHTING UNIT, WHITE HOUSING WITH DUAL HEADS. PROVIDE 90 MINUTE BATTERY PACK. MOUNTING HEIGHT: +/- 8"-0" AFF LAMP: INCLUDED VOLTAGE: MVOLT MANUFACTURER: LITHONIA: AFNX SERIES SUBSTITUTIONS: ● OR EQUAL ○ SUBJECT TO REVIEW ○ NO EQUAL |
| X3 | EXIT | | EXIT SIGN WITH WHITE HOUSING AND GREEN LED LETTERING. PROVIDE 90 MINUTE BATTERY PACK. MOUNTING HEIGHT: ABOVE DOOR/CEILING LAMP: INCLUDED VOLTAGE: MVOLT MANUFACTURER: LITHONIA: LQM SERIES SUBSTITUTIONS: ○ OR EQUAL ● SUBJECT TO REVIEW ○ NO EQUAL |
| X4 | EXIT | | EXIT SIGN WITH WHITE HOUSING AND GREEN LED LETTERING. PROVIDE 90 MINUTE BATTERY PACK. MOUNTING HEIGHT: ABOVE DOOR/CEILING LAMP: INCLUDED VOLTAGE: MVOLT MANUFACTURER: LITHONIA: LQM SERIES SUBSTITUTIONS: ○ OR EQUAL ● SUBJECT TO REVIEW ○ NO EQUAL |
| X5 | EXIT | | EMERGENCY LIGHTING UNIT WITH DUAL HEADS AND 90 MINUTE BATTERY PACK. MOUNTING HEIGHT: +/- 7"-6" AFF LAMP: INCLUDED VOLTAGE: MVOLT MANUFACTURER: LITHONIA: ELM2 SERIES SUBSTITUTIONS: ○ OR EQUAL ● SUBJECT TO REVIEW ○ NO EQUAL |

COMcheck Software Version 4.0.2.8

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2012 IECC
Project Title: Sparks Municipal Court Alteration
Project Type: Alteration

Construction Site: 1450 C Street Sparks, NV 89431
Owner/Agent: JP Engineering, LLC 15097 Double R Blvd. Reno, NV 89521 775-852-2337
Designer/Contractor: JP Engineering, LLC 15097 Double R Blvd. Reno, NV 89521 775-852-2337

| Area Category | Allowed Interior Lighting Power | | | |
|------------------------------------|---------------------------------|-----------------------------------|-------------------------|---|
| | B Floor Area (ft ²) | C Allowed Watts / ft ² | D Allowed Watts (B X C) | E |
| 1-Lobby (Common Space Types:Lobby) | 2172 | 1.10 | 2389 | |
| Total Allowed Watts = | | | 2389 | |

| Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast | Proposed Interior Lighting Power | | | |
|--|----------------------------------|-----------------|-----------------|-----------|
| | B Lamps/ Fixture | C # of Fixtures | D Fixture Watt. | E (C X D) |
| Lobby (Common Space Types:Lobby:2172 sq.ft.) | | | | |
| LED 1: L1: See Fixture Schedule: LED PAR 8W: | 1 | 9 | 8 | 72 |
| LED 2: L2: See Fixture Schedule: Other: | 1 | 17 | 35 | 595 |
| LED 3: L2X: See Fixture Schedule: Other: | 1 | 7 | 35 | 245 |
| LED 4: L3: See Fixture Schedule: Other: | 1 | 5 | 42 | 210 |
| Total Proposed Watts = | | | 1122 | |

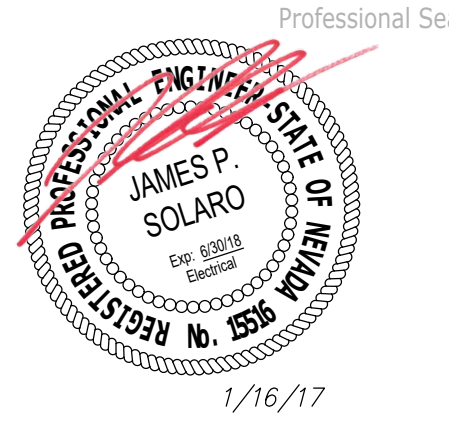
Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.0.2.8 and to comply with the mandatory requirements listed in the Inspection Checklist.

Name - Title _____ Signature _____ Date _____

Project Title: Sparks Municipal Court
Data filename: j:\2014\14041 - Sparks Muni Court Entry\Phase II\14041 - Lighting Compliance.cck
Report date: 01/09/17
Page 1 of 6



| △ | Date | Revision |
|---|---------|-----------------------|
| 1 | 1-10-17 | Plan Review Revisions |
| | 1-16-17 | Bid Documents |

#14041

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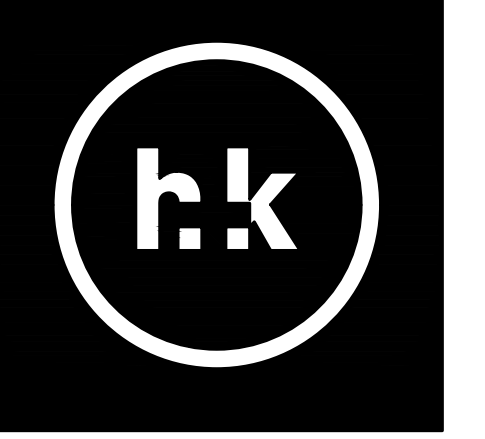
Sparks Municipal Court Security Entrance Remodel

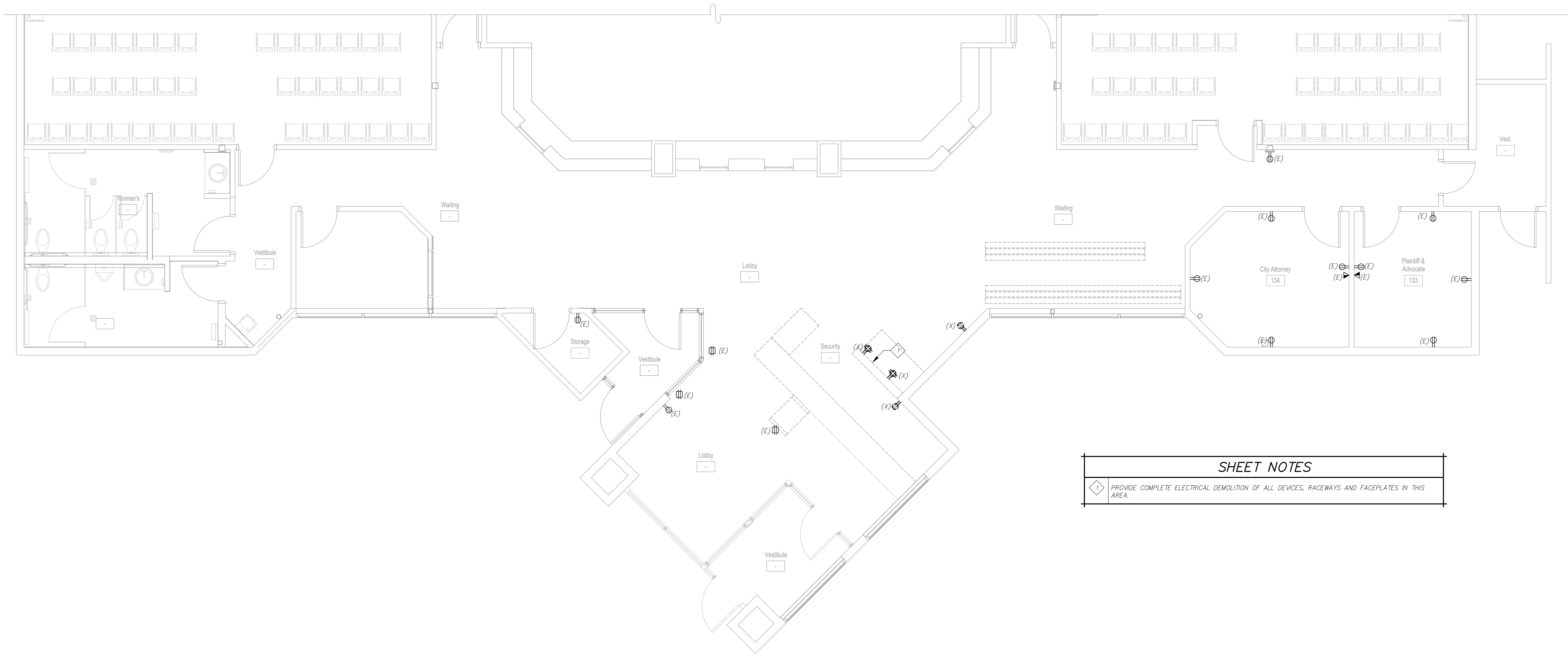
1450 C Street
Sparks, Nevada 89431

ELECTRICAL SCHEDULES AND LIGHTING COMPLIANCE

January 16, 2017
H+K Project No.: 1628

E002

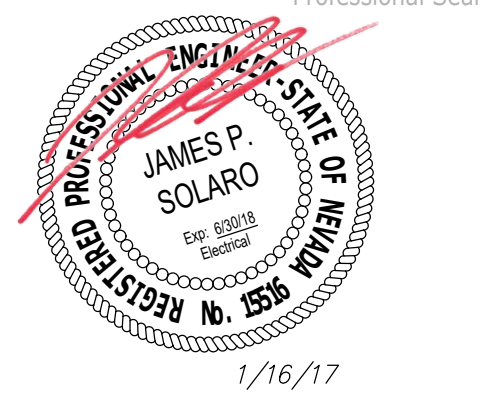




SHEET NOTES

1 PROVIDE COMPLETE ELECTRICAL DEMOLITION OF ALL DEVICES, RACEWAYS AND FACEPLATES IN THIS AREA.

| | | |
|------|------------------------------|--|
| A | POWER DEMOLITION PLAN | |
| E101 | SCALE: 1/4" = 1'-0" | |



| # | Date | Revision |
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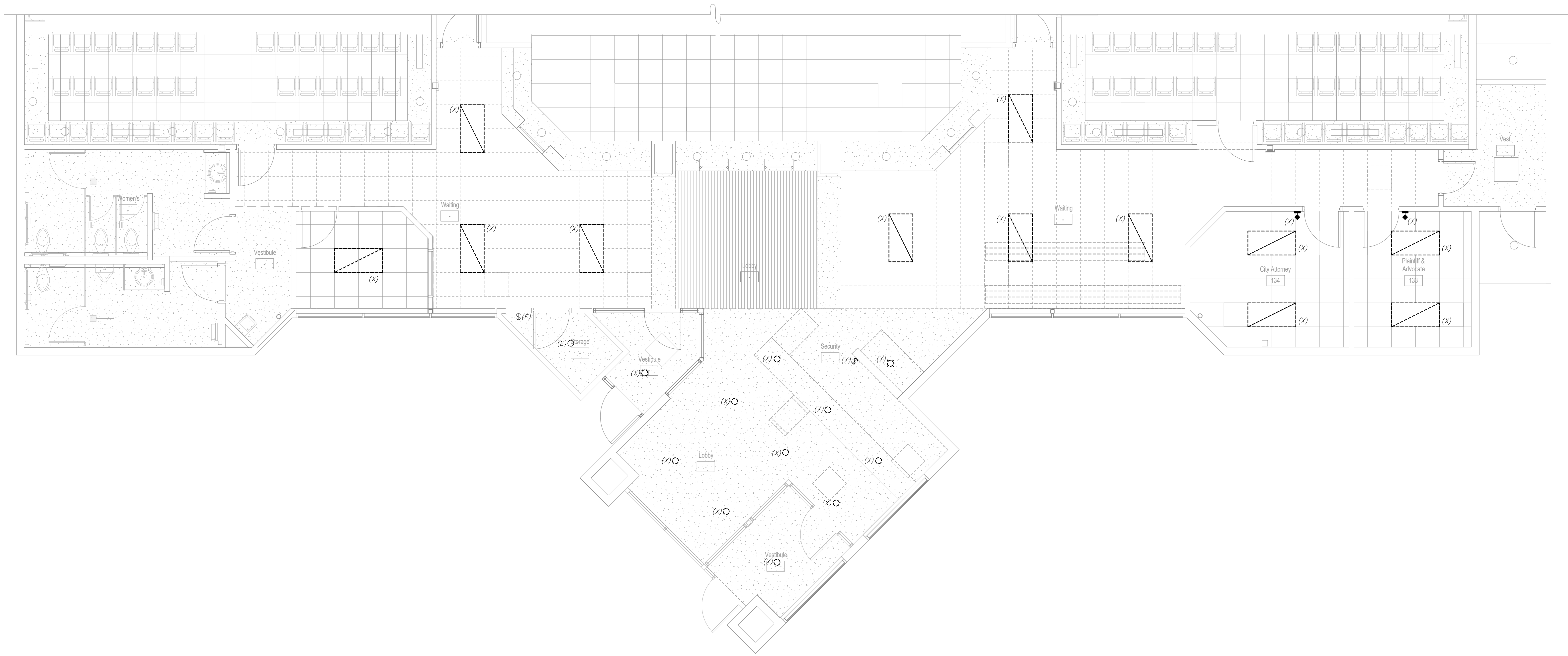
1450 C Street
Sparks, Nevada 89431

ELECTRICAL
DEMOLITION PLAN

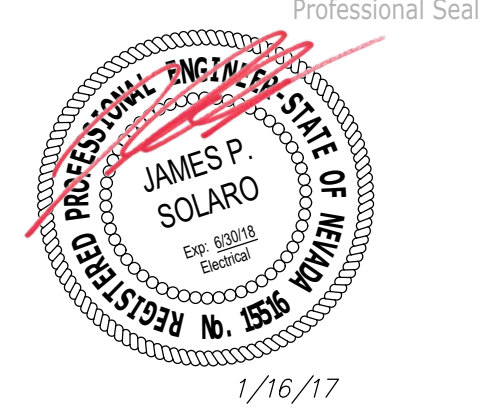
January 16, 2017
H+K Project No.: 1628

E101





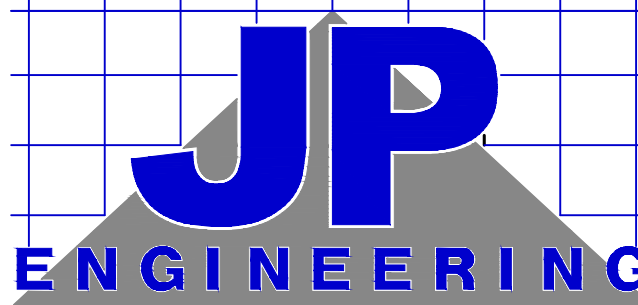
| | | |
|------|---------------------------------|---|
| A | LIGHTING DEMOLITION PLAN |  |
| E102 | SCALE: 1/4" = 1'-0" | |



| △ | Date | Revision |
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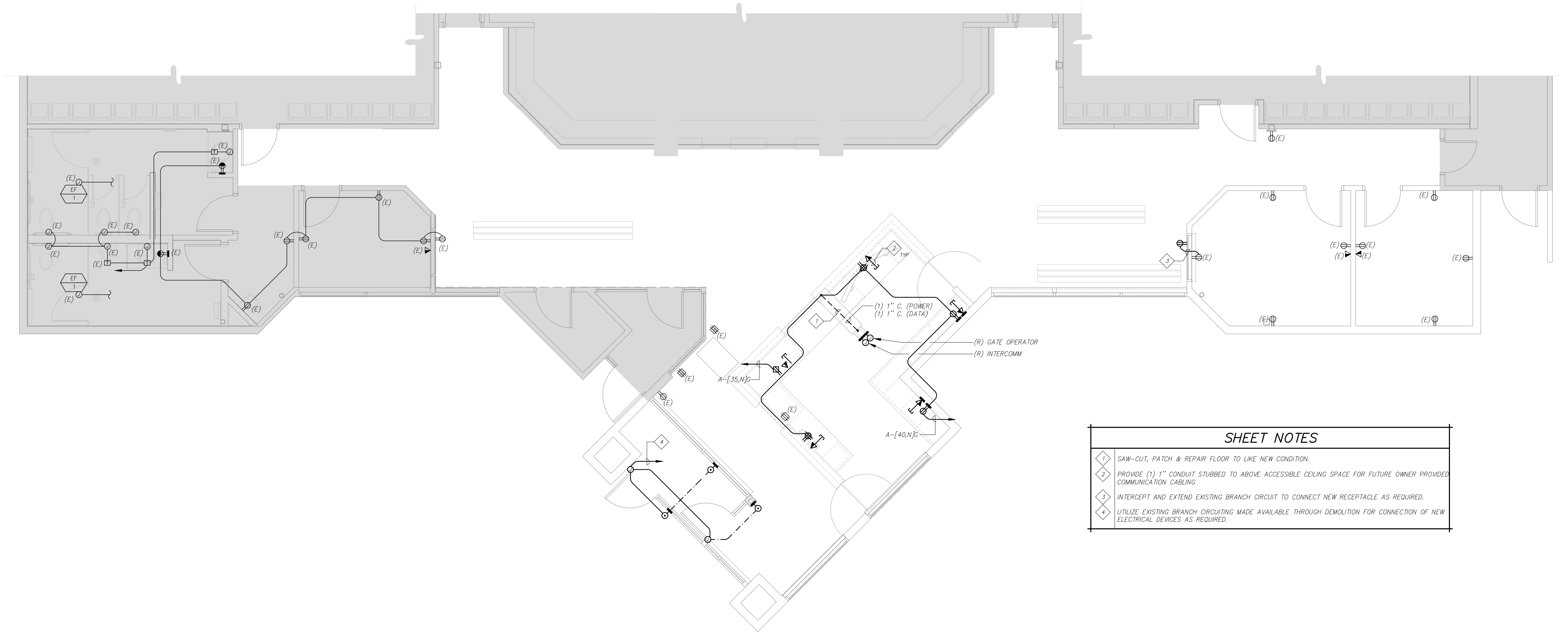
1450 C Street
Sparks, Nevada 89431

LIGHTING
DEMOLITION PLAN

January 16, 2017
H+K Project No.: 1628

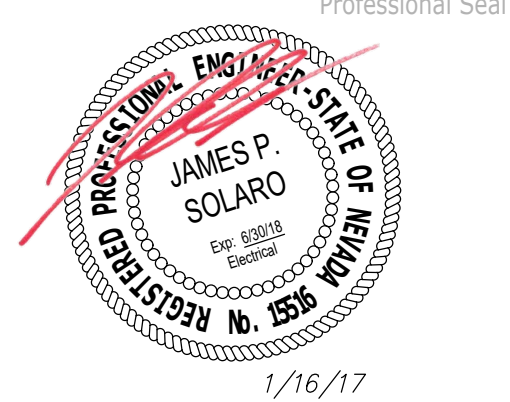
E102





| SHEET NOTES | |
|-------------|--|
| 1 | SAW-CUT, PATCH & REPAIR FLOOR TO LIKE NEW CONDITION. |
| 2 | PROVIDE (1) 1" CONDUIT STUBBED TO ABOVE ACCESSIBLE CEILING SPACE FOR FUTURE OWNER PROVIDED COMMUNICATION CABLING |
| 3 | INTERCEPT AND EXTEND EXISTING BRANCH CIRCUIT TO CONNECT NEW RECEPTACLE AS REQUIRED. |
| 4 | UTILIZE EXISTING BRANCH CIRCUITING MADE AVAILABLE THROUGH DEMOLITION FOR CONNECTION OF NEW ELECTRICAL DEVICES AS REQUIRED. |

| | | |
|------|------------------------------|--|
| A | POWER AND SIGNAL PLAN | |
| E201 | SCALE: 1/4" = 1'-0" | |



| △ | Date | Revision |
|---|---------|-----------------------|
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**Sparks Municipal Court
Security Entrance Remodel**

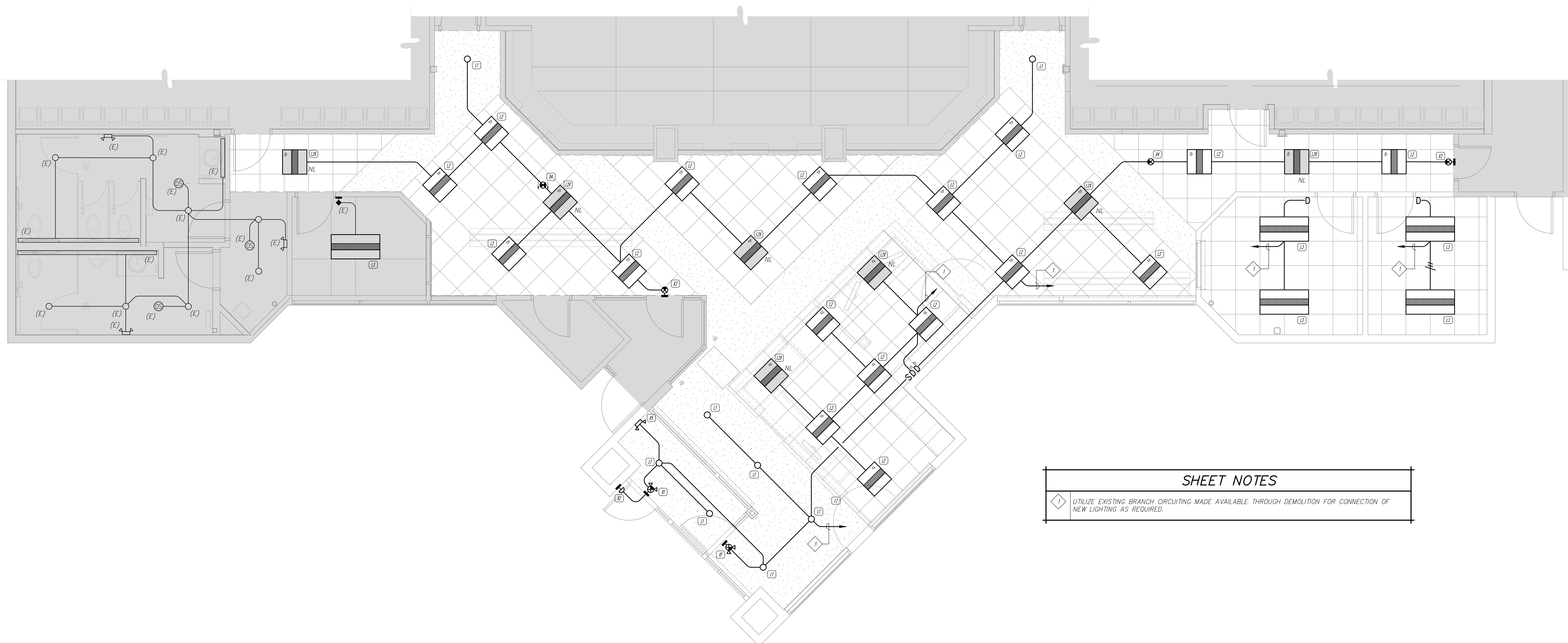
1450 C Street
Sparks, Nevada 89431

POWER AND SIGNAL
PLAN

January 16, 2017
H+K Project No.: 1628

E201

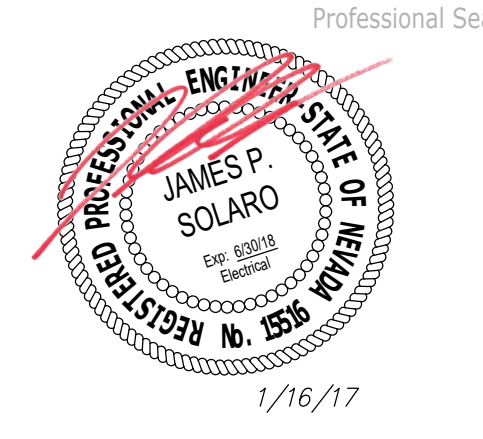




SHEET NOTES

1 UTILIZE EXISTING BRANCH CIRCUITING MADE AVAILABLE THROUGH DEMOLITION FOR CONNECTION OF NEW LIGHTING AS REQUIRED.

A LIGHTING PLAN
 E301 SCALE: 1/4" = 1'-0"



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**Sparks Municipal Court
 Security Entrance Remodel**

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 Sparks, Nevada 89431

LIGHTING PLAN

January 16, 2017
 H+K Project No.: 1628

E301