



DRAWING INDEX

A-901 DOOR SCHEDULE / DOOR, FRAME AND WINDOW TYPES
A-902 FRAME DETAILS
A-903 PARTITION TYPES
F-101 FURNITURE PLAN - FIRST FLOOR
S-100 GENERAL NOTES
S-101 GENERAL NOTES
S-102 TYPICAL DETAILS
S-103 TYPICAL DETAILS
S-104 TYPICAL DETAILS
S-201 FIRST FLOOR FOUNDATION PLAN
S-202 ROOF FRAMING PLAN
S-300 FOUNDATION SECTIONS
S-400 FRAMING SECTIONS
S-500 BRACE FRAME ELEVATIONS
S-600 COLUMN SCHEDULE & DETAILS
M-001 LEGEND, SYMBOLS, NOTES, & ABBREVIATIONS - MECH.
MD-201 DEMO PLAN - MECHANICAL
M-201 FLOOR PLAN - MECHANICAL
M-202 FLOOR PLAN - ROOF
M-801 DETAILS - MECHANICAL
M-901 SCHEDULES - MECHANICAL
P-001 LEGEND, SYMBOLS, NOTES, & ABBREVIATIONS - PLUMB
PD-201 DEMO PLAN - PLUMBING
P-200 FLOOR PLAN - PLUMBING
P-201 FLOOR PLAN - PLUMBING
P-801 DETAILS - PLUMBING
E-001 LEGEND, SYMBOLS, NOTES, & ABBREVIATIONS - ELECT.
ED-100 DEMO SITE PLAN - ELECTRICAL
ED-201 DEMO FLOOR PLAN - ELECTRICAL LIGHTING
ED-301 DEMO FLOOR PLAN - ELECTRICAL POWER
ED-401 DEMO FLOOR PLAN - ELECTRICAL DATA & FIRE ALARM
E-100 SITE PLAN - ELECTRICAL
EL-201 FLOOR PLAN & LIGHT FIXTURE SCHEDULE - ELECT.
LIGHTING
EL-202 LIGHTING ALTERNATE
EP-301 FLOOR PLAN, ONE-LINE & SCHEDULE - ELECT. POWER
E-401 FLOOR PLAN - ELECTRICAL DATA & FIRE ALARM
SCHEDULES - ELECTRICAL

CODE INFORMATION

<u>AUTHORITIES HAVING JURISDICTION:</u>	CITY OF PACIFIC, MO (FRANKLIN COUNTY) PACIFIC FIRE PROTECTION DISTRICT
<u>BUILDING CODE:</u>	INTERNATIONAL BUILDING CODE (IBC) 2003 EDITION, INCLUDING APPENDIX CHAPTERS E,F AND I.
<u>ACCESSIBILITY:</u>	AMERICANS WITH DISABILITIES ACT ICC/ANSI A117.1, REFERENCED BY BUILDING CODE
<u>FIRE PREVENTION:</u>	INTERNATIONAL FIRE CODE (IFC) 2003 EDITION, INCLUDING APPENDIX CHAPTERS B, C, D, E, F and G
<u>MECHANICAL:</u>	INTERNATIONAL MECHANICAL CODE (IMC) 2003 EDITION, INCLUDING APPENDIX CHAPTER A.
<u>ELECTRICAL:</u>	INTERNATIONAL ELECTRICAL CODE (ICC) 2003 EDITION
<u>PLUMBING:</u>	INTERNATIONAL PLUMBING CODE (IPC) 2003 EDITION, INCLUDING APPENDIX CHAPTERS B, C, D, E, F and G
<u>PROPERTY MAINTENANCE:</u>	INTERNATIONAL PROPERTY MAINTENANCE CODE (IPMC) 2003 EDITION.
<u>GAS:</u>	INTERNATIONAL FUEL GAS CODE 2003 EDITION, INCLUDING APPENDIX CHAPTERS B, AND D.

BUILDING INFORMATION

USE GROUPS	
A-3	ASSEMBLY, LIBRARY
S-1	MODERATE HAZARD STORAGE (ACCESSORY USE, SEE LIFE SAFETY PLAN, SHEET A-002)

CONSTRUCTION TYPE:
TYPE IIB NON-SPRINKLERED, NOT PROTECTED

SEISMIC CATEGORY:
C REFER TO CISCA GUIDELINES FOR REQUIREMENTS

AREA:		
FLOOR:	ACTUAL GSF	DESIGN OCCUPANCY:
FIRST FLOOR	11,884 SF	291 OCCUPANTS

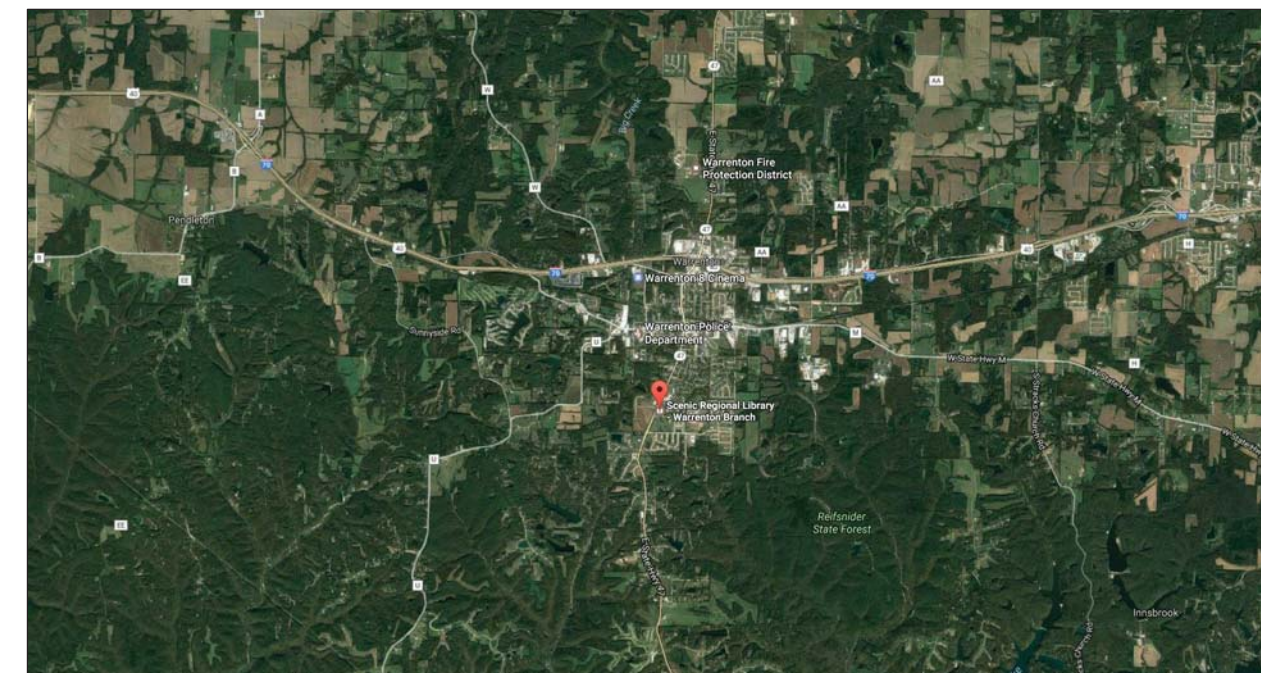
ALLOWABLE HEIGHT AND AREA:
USE GROUP A-3 IS MOST RESTRICTIVE USE.
ALLOWABLE HEIGHT AND AREA, IBC TABLE 503 - 2 STORIES AND 9,500 SF.

PER SECTION 506.2 FRONTAGE INCREASE; If = 43% INCREASE OR 4,085 SF - TOTAL ALLOWABLE AREA OF 13,585 SF
(F=325'-0", P= 475'-0", W=30'-0")

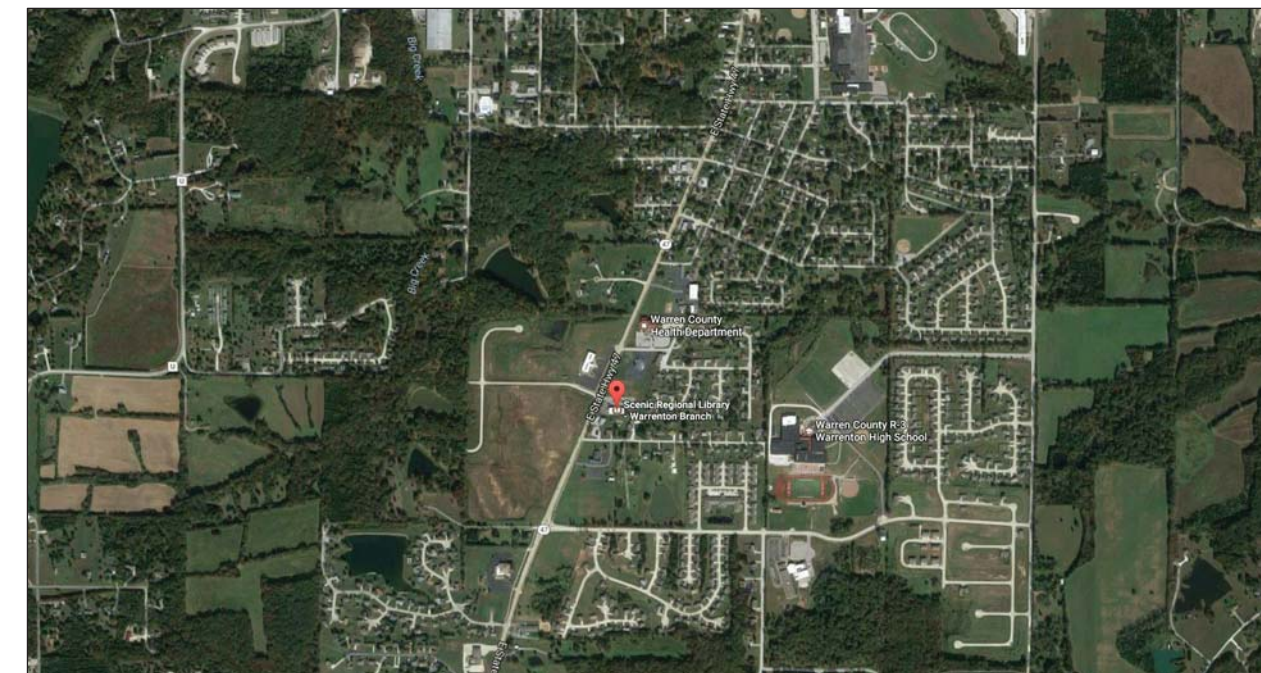
RATINGS

<u>ELEMENT:</u>	<u>RATING:</u>
COLUMN	0 HOUR
CORRIDOR	0 MINUTE
DOOR	0 MINUTE
FLOOR	0 HOUR
STORAGE	0 HOUR

VICINITY MAP



LOCATOR MAP



ARCHITECT-OF-RECORD

JEMA
3005 LOCUST ST.
ST. LOUIS, MO 63103
T (314) 531-7400
CONTACT: SCOTT CLARK
E-MAIL: SCLARK@JEMASTL.COM

DESIGN ARCHITECT

SAPP DESIGN ASSOCIATES ARCHITECTS
3750 SOUTH FREMONT
SPRINGFIELD, MO 65804
T (417) 877-9600
F (417) 877-9696
CONTACT: JAMES STUFFLEBEAM
E: STUFFLEBEAM@SDAARCHITECTS.COM

CIVIL
ENGINEER

COCHRAN ENGINEERING
530A EAST INDEPENDENCE DRIVE
UNION, MO 63084
T (636) 584-0540
F (636) 584-0512
CONTACT: DAVE VAN LEER
E-MAIL: DVANLEER@COCHRAN.COM

STRUCTURAL
ENGINEER

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1804 BORMAN CIRCLE DRIVE
ST. LOUIS, MO 63146
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CONTACT: STEVE EHRETT
E-MAIL: STEVE.EHRETT@ALPERAUDI.COM

MECHANICAL, ELECTRICAL,
PLUMBING ENGINEER

BRIC PARTNERSHIP, LLC
138 WEST ADAMS
KIRKWOOD, MO 63122
T (314) 725-5889
CONTACT: BRUCE COLEMAN
E: BCOLEMAN@BRICPARTNERSHIP.COM



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SAPP DESIGN ASSOCIATES ARCHITECTS
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BRIC PARTNERSHIP, LLC
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KIRKWOOD, MO 63122
T (314) 725-5889
CONTACT: BRUCE COLEMAN
E: BCOLEMAN@BRICPARTNERSHIP.COM

ARCHITECT OF RECORD:

JOHN EDWARD MUELLER
MO ARCHITECTURAL LICENSE A2010039554
MO CERTIFICATE OF AUTHORITY A2014008380

No.	Date	Description
	06/13/17	ISSUED FOR RE-BID

DRAWN BY: **SC/SH**

PROJECT NUMBER: 16-1161.06

SHEET TITLE:
COVER SHEET

A-000

DWG NAME: F:\16-6413 - Scenic Regional Library - Warrenton\AutoCAD Drawings\Plan Sheets\6413 TITLE.dwg LAYOUT TAB: TITLE PLOTTED ON: Apr 13, 2017 - 11:41am PLOTTED BY: Ivaher



CONTACT INFORMATION

OWNER

OWNER: SCENIC REGIONAL LIBRARY

REPRESENTATIVE: STEVEN CAMPBELL (DIRECTOR)

ADDRESS: 304 HAWTHORNE DR. UNION, MO

PHONE: 636-583-0652

WATER / SEWER

OWNER: CITY OF WARRENTON

REPRESENTATIVE: GUY GEVERS

ADDRESS: 200 WEST BOONESLICK RD. WARRENTON, MO

PHONE: 636-456-3535

ELECTRIC

OWNER: AMEREN

REPRESENTATIVE: MARVIN MAAG

ADDRESS: 200 N. CALLAHAN RD. WENTZVILLE, MO

PHONE: 636-639-8314

TELEPHONE

OWNER: CENTURY LINK

REPRESENTATIVE: DAN BERNSKOETTER

ADDRESS: 1551 CENTURYLINK DR. WENTZVILLE, MO

PHONE: 573-634-1686

GAS

OWNER: AMEREN

REPRESENTATIVE: AMY TWELLMANN

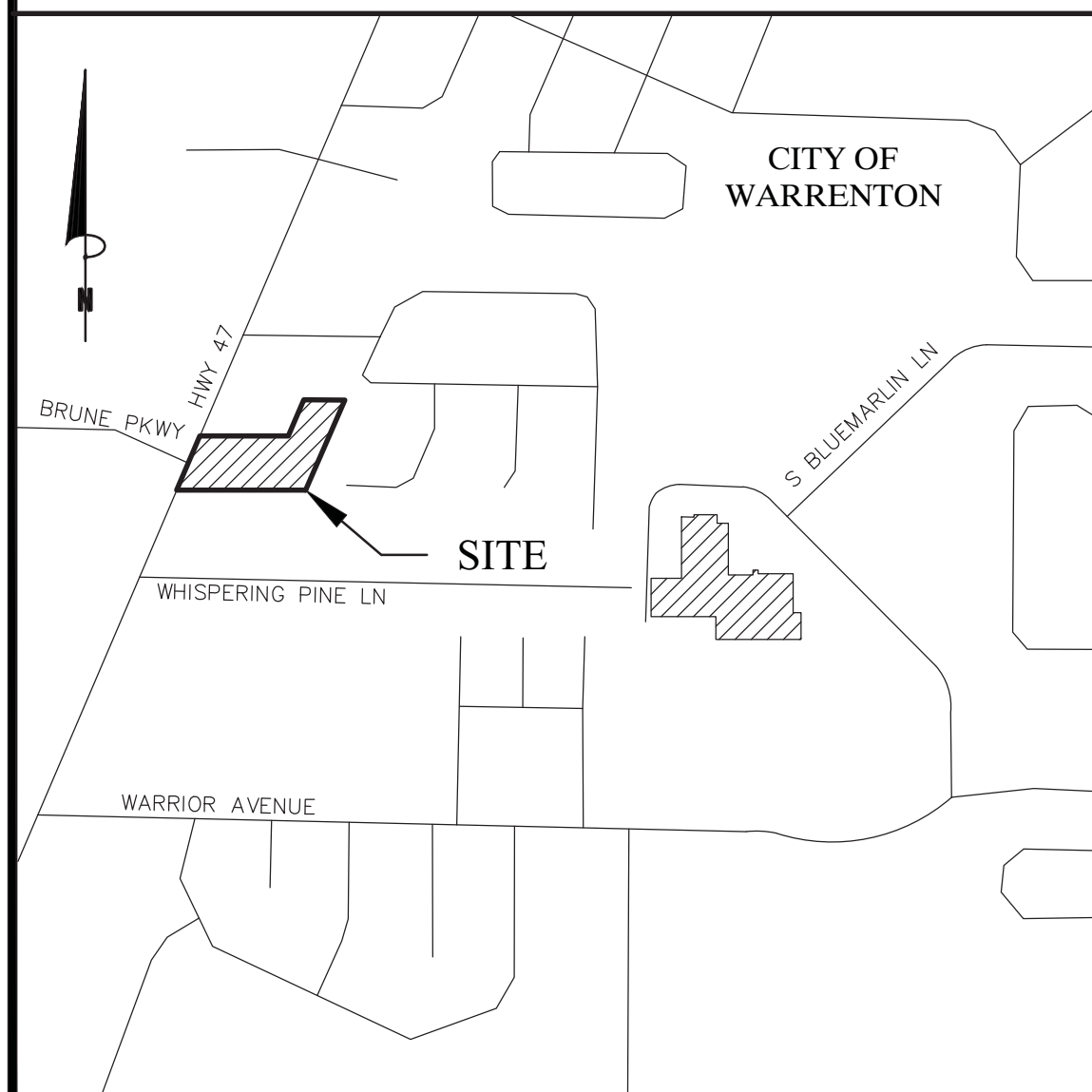
ADDRESS: 200 N. CALLAHAN RD. WENTZVILLE, MO

PHONE: (636) 639-8305

SPECIAL NOTES :

FOR QUESTIONS OR CLARIFICATION PLEASE CONTACT

DAVID VAN LEER AT COCHRAN. PHONE #636-584-0540



VICINITY MAP
NO SCALE

SITE IMPROVEMENT PLANS FOR SCENIC REGIONAL LIBRARY IN THE CITY OF WARRENTON, MISSOURI 912 S. STATE HIGHWAY 47

PROJECT NO. 16-6413

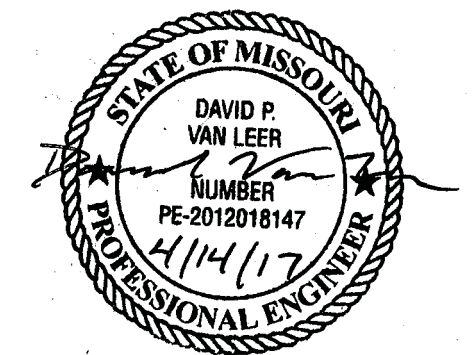


- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- SITE DEVELOPMENT
- MASTER PLANNING
- GENERAL CONSULTING

530A E. INDEPENDENCE DRIVE, UNION, MISSOURI 63084
TELEPHONE (636) 584-0540
FAX (636) 584-0512
E-MAIL mail@cochraneng.com

APRIL, 2017

SHEET INDEX	SHEET
TOPOGRAPHIC SURVEY	T1
DEMOLITION PLAN	C1
SITE PLAN	C2
GRADING PLAN	C3
DETAIL SHEET	D1
DETAIL SHEET	D2



David P. Van Leer No. PE-2012018147
Registered Professional Engineer
State of Missouri for Cochran

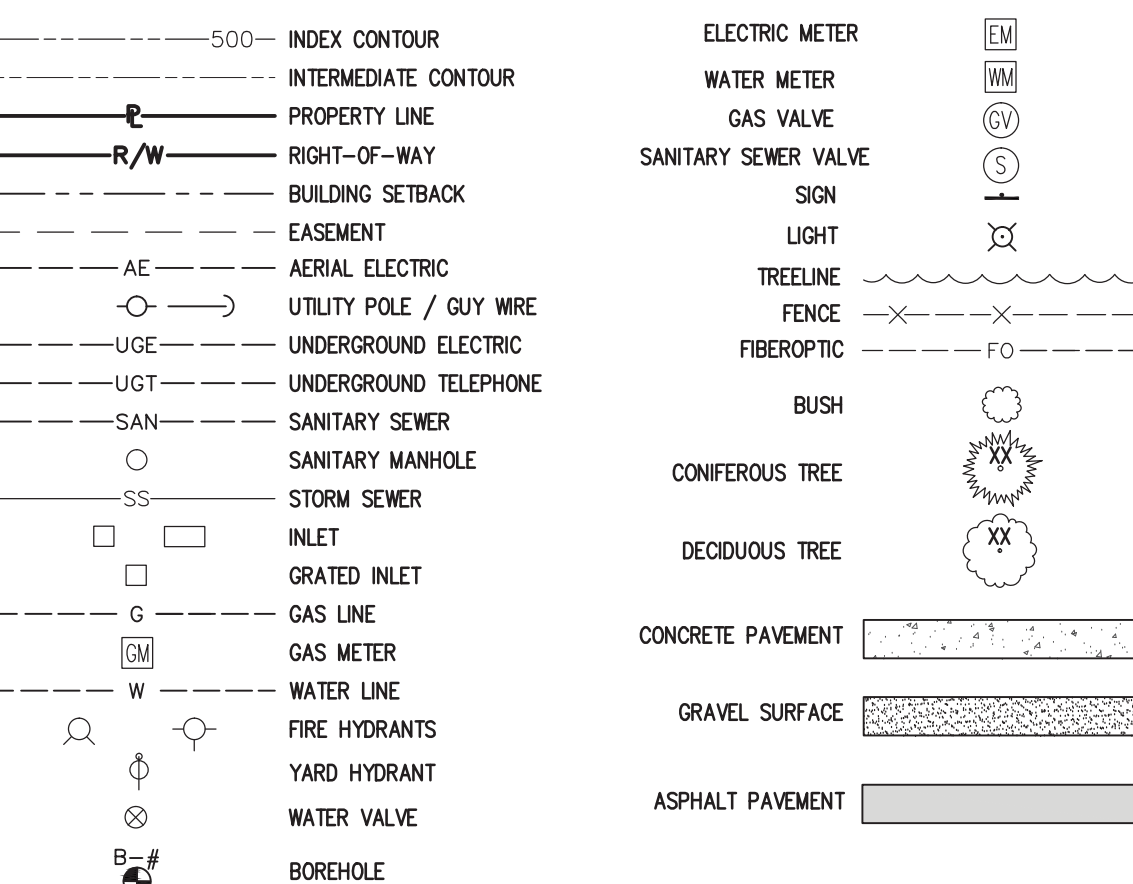
Two working days prior to the start of any excavation on this site, contractor shall call 1-800-342-1585 for utility location information.

All OSHA rules & regulations established for the type of construction required by these plans shall be strictly followed (ie. Trenching, Blasting, etc.)

UTILITY RESPONSIBILITY MATRIX FOR THIS PROJECT			
	UTILITY/ GOVERNING AGENCIES CONTACTS	CONTRACTOR RESPONSIBILITY-	OTHERS RESPONSIBILITY-
WATER & SEWER	CITY OF WARRENTON 200 WEST BOONESLICK RD. WARRENTON, MO 63385 CONTACT: GUY GEVERS PHONE: (636) 456-3535	-NO NEW SERVICE CONNECTIONS	-NO NEW SERVICE CONNECTIONS
TELEPHONE	CENTURY LINK 1551 CENTURYLINK DR. WENTZVILLE, MO 63385 CONTACT: DAN BERNSKOETTER PHONE: (573) 634-1686	-NO NEW SERVICE CONNECTIONS	-NO NEW SERVICE CONNECTIONS
ELECTRIC	AMEREN 200 NORTH CALLAWAY RD. WENTZVILLE, MO 63385 CONTACT: MARVIN MAAG PHONE: 636-639-1212	-NO NEW SERVICE CONNECTIONS	-NO NEW SERVICE CONNECTIONS
ELECTRIC	AMEREN 200 NORTH CALLAWAY RD. WENTZVILLE, MO 63385 CONTACT: AMY TWELLMANN PHONE: 636-639-8305	-NO NEW SERVICE CONNECTIONS	-NO NEW SERVICE CONNECTIONS

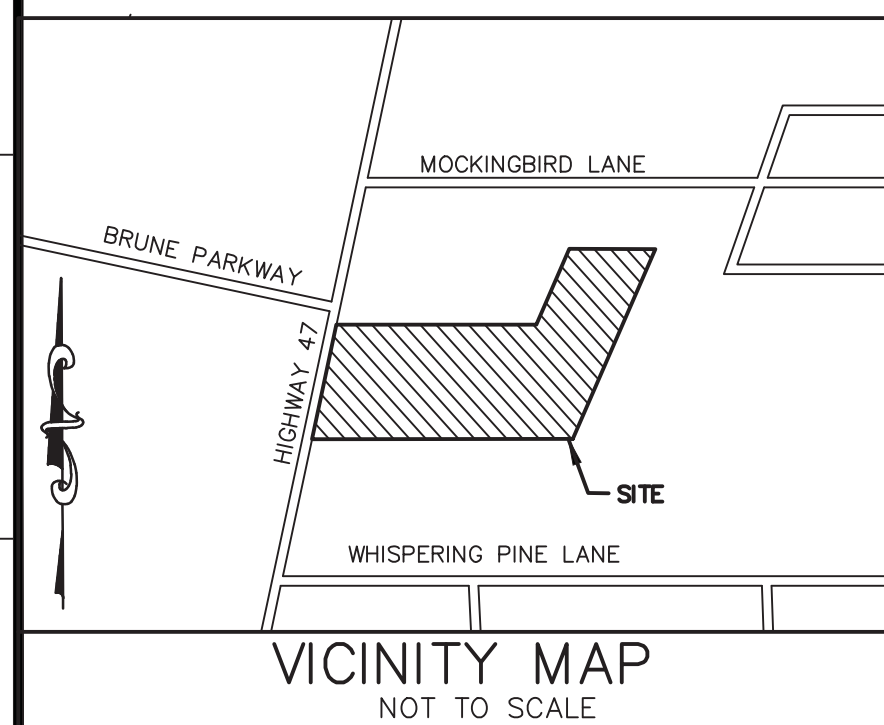
THIS MATRIX HAS BEEN PROVIDED FOR INFORMATIONAL PURPOSES. THE CONTRACTOR SHALL PROVIDE ANY AND ALL APPURTENANCES, TRENCHING AND BACKFILL, AND OTHER INCIDENTALS TO MEET OR EXCEED THE SPECIFICATIONS OF THE ITEMS LISTED.

PART OF LOT 2 OF JON AND RUSSELL BROCKFELD SUBDIVISIONS, LOCATED IN
PART OF SECTION 28 AND 33, TOWNSHIP 47 NORTH, RANGE 2 WEST OF 5TH P.M.
CITY OF WARRENTON, WARREN COUNTY, MISSOURI
(THIS DOES NOT CONSTITUTE A BOUNDARY SURVEY)

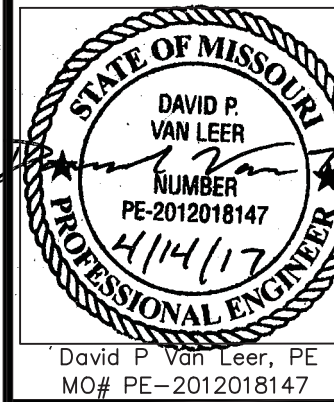


- Notes:
1. Bearing system is North derived from Topographic Survey performed by Washington Engineering and Architecture project number 3367.
2. No investigation has been performed by Cochran regarding hazardous waste, underground conditions or utilities affecting the tract shown herein.
3. This survey does not constitute a title search by the Land Surveyor.
4. Project Benchmark is determined from North derived from Topographic Survey performed Washington Engineering and Architecture project number 3367.

Site Benchmark: "O" in OPEN of a Fire Hydrant located on South Side of Northwest Entrance off of State Hwy 47 as shown on plans.
Elev. = 875.84
5. Underground structures, facilities, and utilities have been plotted from available plans and observed evidence along with locates from local utility companies and Missouri One Call. Their locations must be considered approximate only and there may be others, the existence of which is presently not known.
6. This property lies within Zone X areas determined to be about the 0.2% annual chance floodplain per the Flood Risk Rate Map 29219C0142D Community Plan 142 of 400, Effective date November 4, 2009.



Missouri State Certificate of Authority Numbers:
Survey : 000380
Engineering : 001655
Architecture : 2002014240

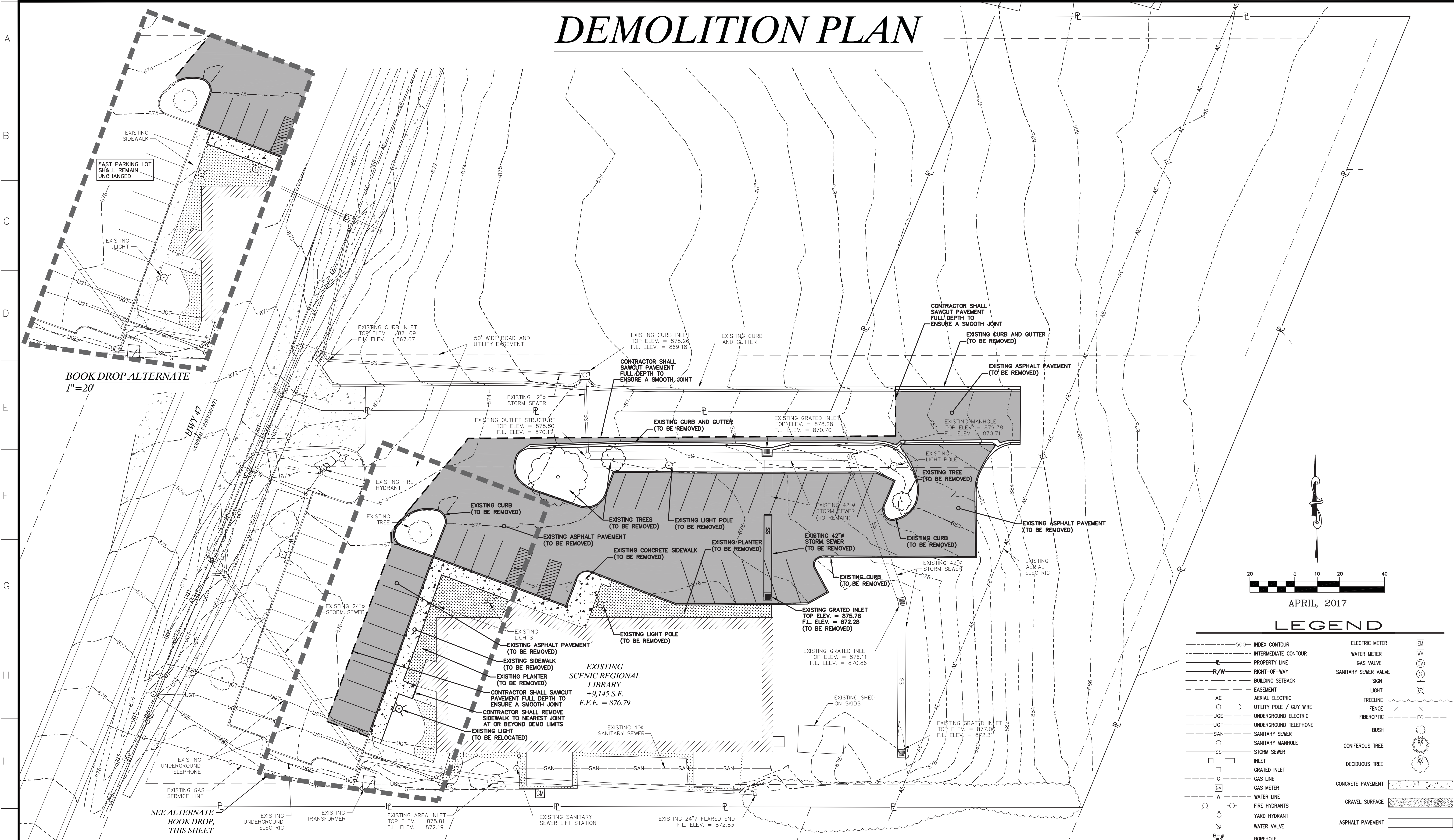


*SITE IMPROVEMENT PLANS
SCENIC REGIONAL LIBRARY
WARRENTON, MISSOURI*

GRAPHIC SURVEY		REASON:	DATE:	ISSUED FOR BID	DATE:	APPRO. BY:	DATE:
			04-14-17	TES	DPV		
SCALE:		1" = 20'					
PROJ. NO:		16-6413					
DWG. NO:							

 $T1$

DEMOLITION PLAN



DEMOLITION PLAN NOTES

- The sitework on this project shall meet or exceed the City of Warrenton standards and specifications.
- Bearing system is North derived from Topographic Survey performed by Washington Engineering and Architecture project number 3367.
- Project Benchmark is determined from North derived from Topographic Survey performed by Washington Engineering and Architecture project number 3367.
Site Benchmark: "O" in OPEN of a Fire Hydrant located on South Side of Northwest Entrance off of State Hwy 47 as shown on plans.
Elev. = 875.84
- Site is zoned: "C-2" General Commercial per the City of Warrenton Zoning Map
- This property lies within Zone X "areas determined to be outside of the 0.2% annual chance floodplain", per Flood Insurance Rate Map 29219C0142D Community Panel 142 of 400, Effective date November 4, 2009.
- In accordance with generally accepted construction practices, the Contractor will be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal working hours. Contractor will be responsible for providing and maintaining all barricades, warning signs, flashing lights and traffic control devices during construction. Contractor to comply with all OSHA regulation requirements and safety meeting requirement.
- Underground structures, facilities and utilities have been plotted from available surveys and records. Therefore, their locations must be considered approximate only. There may be others, the existence of which is presently not known.
- Contractor to contact telephone, electric, gas, water and cable companies to have underground utilities located on this site and adjacent to this site prior to doing any excavating.
- All unsurfaced areas are to receive 4 inches of topsoil. Contractor to seed, mulch, fertilize, and maintain all areas outside of paved areas that were disturbed during construction until an acceptable stand of grass is established. The Contractor shall be responsible to take whatever means necessary to establish permanent soil stabilization.
- All erosion control shall be in conformance with the City of Warrenton.
- The contractor is responsible for keeping storm water run-off and siltation under control during construction.
- It shall be the contractor's responsibility to keep all mud and silt on site and off of streets.
- All survey monuments disturbed during construction shall be replaced by a licensed land surveyor licensed in the state in which this project is located at the Contractor's expense.
- Contractor shall be responsible to remove any basements, wells, utility lines, foundations, cisterns, cellars, etc. on site which exist and are within the projects construction area. Contractor is encouraged to visit the site prior to submitting their bid for this project.
- Contractor shall saw-cut all curb and gutter sections, concrete medians and along pavement where proposed construction ties into existing areas. Contractor shall maintain traffic flow and provide traffic control throughout construction.
- All demolition, disposal, etc. fees are to be paid by the Contractor.
- All existing structures, unless otherwise noted to remain, (i.e. fencing, trees, concrete, asphalt pavement, utilities, etc.) within the construction area shall be disposed of in a manner meeting federal, state and local regulations.

636-584-0540 (tel.)
636-584-0512 (fax)
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COCHRAN
Civil Engineering
Land Surveying
Architecture
Site Development
General Consulting
Master Planning

Missouri State Certificate
of Authority Numbers:
Survey: 000380
Engineering: 001655
Architecture: 200214240

Two working days prior to
the start of any excavation,
call 1-800-UG-RITE for utility
location information.

All OSHA rules & regulations
governing excavation and
construction required by these
plans shall be strictly followed
(i.e. Trenching, Shoring, etc.)

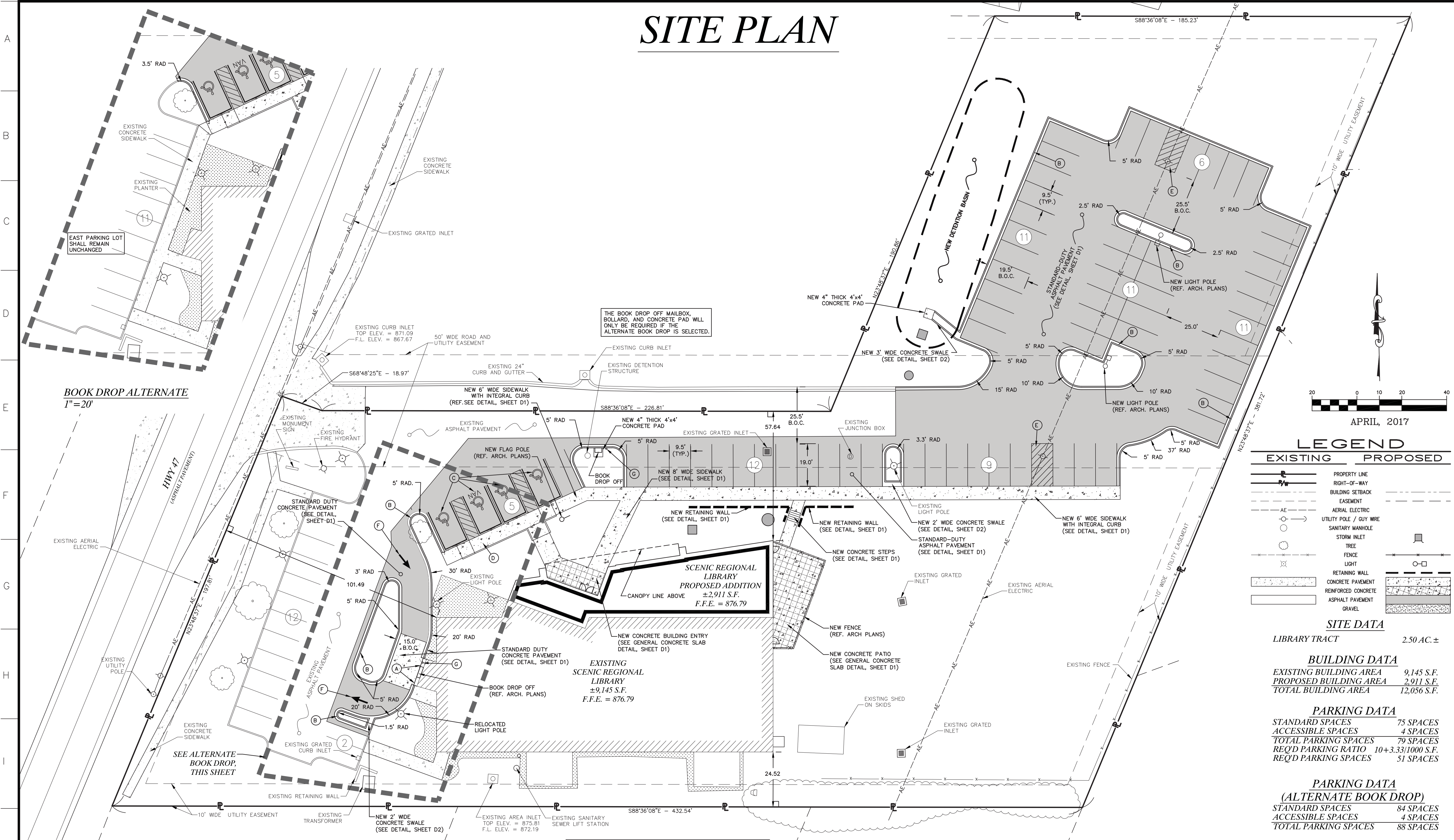
STATE OF MISSOURI
DAVID P. VAN LER
NUMBER
PE-2012018147
4/14/17
PROFESSIONAL ENGINEER

David P. Van Leer, PE
MO# PE-2012018147

SITE IMPROVEMENT PLANS
SCENIC REGIONAL LIBRARY
WARRENTON, MISSOURI

DEMOLITION PLAN
OWN. BY: APPL. BY:
DATE: TES DPV
04-14-17
REVISION: ISSUED FOR BID
DATE: APR. 14, 2016
SCALE: 1" = 20'
PROJ. NO.: 16-6413
DWG. NO.: C1

SITE PLAN



BOOK DROP ALTERNATE
1"=20'

LEGEND	
EXISTING	PROPOSED
	PROPERTY LINE
	RIGHT-OF-WAY
	BUILDING SETBACK
	EASEMENT
	AERIAL ELECTRIC
	UTILITY POLE / GUY WIRE
	SANITARY MANHOLE
	STORM INLET
	TREE
	FENCE
	LIGHT
	RETAINING WALL
	CONCRETE PAVEMENT
	REINFORCED CONCRETE
	ASPHALT PAVEMENT
	GRAVEL

SITE DATA	
LIBRARY TRACT	2.50 AC. ±
BUILDING DATA	
EXISTING BUILDING AREA	9,145 S.F.
PROPOSED BUILDING AREA	2,911 S.F.
TOTAL BUILDING AREA	12,056 S.F.
PARKING DATA	
STANDARD SPACES	75 SPACES
ACCESSIBLE SPACES	4 SPACES
TOTAL PARKING SPACES	79 SPACES
REQ'D PARKING RATIO	10+3.33/1000 S.F.
REQ'D PARKING SPACES	51 SPACES

PARKING DATA (ALTERNATE BOOK DROP)	
STANDARD SPACES	84 SPACES
ACCESSIBLE SPACES	4 SPACES
TOTAL PARKING SPACES	88 SPACES

- SITE LEGEND**
- (A) 18" CONCRETE CURB (SEE 18" CONCRETE CURB DETAIL, SHEET D1)
 - (B) 18" CONCRETE CURB AND GUTTER TYPICAL. (SEE 18" CONCRETE CURB AND GUTTER DETAIL, SHEET D1)
 - (C) ACCESSIBLE PARKING SPACE TYPICAL. SEE "PARKING LOT STRIPING DETAILS, SHEET D1 FOR ACCESSIBLE PARKING SPACE SIZE, SIGN AND SYMBOL ("VAN" - INDICATES VAN ACCESSIBLE SPACE)
 - (D) NEW ADA RAMP (SEE DETAIL, SHEET D1)
 - (E) PAINTED PAVEMENT STRIPING. STRIPES SHALL BE PAINTED 4" WIDE SOLID YELLOW LINE AT 2'-0" O.C. AT 45°.
 - (F) PAINTED DIRECTIONAL "TRAFFIC FLOW ARROW", TYPICAL (SEE DETAIL, SHEET D1)
 - (G) NEW PIPE BOLLARD (SEE DETAIL, SHEET D1)

SITE PLAN NOTES

- The sitework on this project shall meet or exceed the City of Warrenton standards and specifications.
- Bearing system is North derived from Topographic Survey performed by Washington Engineering and Architecture project number 3367.
- Project Benchmark is determined from North derived from Topographic Survey performed by Washington Engineering and Architecture project number 3367.
Site Benchmark is a "0" in OPEN of a Fire Hydrant located on South Side of Northeast Entrance off State Hwy. 47 as shown on plans.
Elev. = 875.84
- Site is zoned "C-2" General Commercial District per the City of Warrenton Zoning Map.
- This property is within Zone X "areas determined to be outside of the 0.2% annual chance floodplain", per Flood Insurance Rate Map 23219C0142D Community Panel 142 of 400, Effective date November 9, 2009.
- In accordance with generally accepted construction practices, the Contractor will be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal working hours. Contractor will be responsible for providing and maintaining all barricades, warning signs, flashing lights and traffic control devices during construction. Contractor to comply with all OSHA regulation requirements and safety meeting requirement.

- Underground structures, facilities and utilities have been plotted from available surveys and records. Therefore, their locations must be considered approximate only. There may be others, the existence of which is presently not known.
- All un surfaced areas are to receive 4 inches of topsoil. Contractor to seed, mulch, fertilize, and maintain all areas outside of paved areas that were disturbed during construction until an acceptable stand of grass is established. The Contractor shall be responsible to take whatever means necessary to establish permanent soil stabilization.
- See landscaping plans for landscaping requirements.
- All dimensions are to back of curb unless otherwise noted.
- Contractor shall saw cut all curb and gutter sections, concrete medians and along pavement where new construction ties into existing areas. Contractor shall maintain traffic flow and provide traffic control throughout construction.
- Parking is to be striped with 4" wide painted yellow lines as indicated.
- Refer to architectural plans for exact building dimensions and exact utility entrance locations.

CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND DIMENSIONS OF BUILDING APRON, PATIOS, SLOPED PAVING, RAMPS, CONCRETE JOINT SPACING, MECHANICAL SCREENING, PATIO FENCES, FLAG POLE, PARKING LOT LIGHTING, PRECISE BUILDING DIMENSIONS, AND EXACT UTILITY ENTRANCE LOCATIONS.

636-584-0540 (tel.)
636-584-0512 (fax)
mo@ochran.com

MOHRAN

530A E. Independence Dr.
Union, Missouri 63084

Missouri State Certificate
of Authority Numbers:
Survey: 000380
Engineering: 001655
Architecture: 2002014240

Two working days prior to
the start of any excavation
work, the contractor shall
call 1-800-UG-RITE for utility
location information.

All OSHA rules & regulations
shall be strictly followed
during construction. Plans
shall be strictly followed
(i.e. trenching, blasting, etc.)

DAVID P. VAN LEER
NUMBER
PE-2012018147
PROFESSIONAL ENGINEER

David P. Van Leer, PE
MO# PE-2012018147

SITE IMPROVEMENT PLANS

SCENIC REGIONAL LIBRARY

WARRENTON, MISSOURI

SITE PLAN

DATE: 04-14-17
BY: TES
FOR: BID

DATE: APR. 14, 2017
SCALE: 1"=20'
PROJECT NO: 16-6413
DRAWING NO: C2

Prior to fill placement, vegetation should be stripped and sloped areas should be benched. The fill materials placed at the site will consist primarily of a rock/soil mixture and blasted rock generated from the site. The shot rock fill materials will be placed in layers ranging from 18 inches to 36 inches thick. Boulders less than 18 inches in diameter. Boulders larger than 18 inches in diameter should be separated and broke using a track hoe with a breaker or by other means or the boulders should be placed in non-critical fill areas, as approved by the Department of Public Works. The fill materials should be placed in areas where they will be encountered when excavating to install utilities or construct basements, or within 2 or 3 feet of the street upgrade level. Where the fill materials are placed in areas where they will not be encountered, they will not be present around them. If necessary, it may be necessary to place gravel to fill in or "choke off" voids around the larger boulders.

Remove all stumps, bushes, trees, weeds, roots and other surface obstructions from the site. Contractor to strip all topsoil from the entire area to be graded. After the removal of all foreign organic matter, and after stripping of topsoil, the entire surface to be filled, or areas that are cut to subgrade shall be scarified to a minimum depth of 12 inches and the compacted by proof rolling with suitable compaction equipment weighing not less than 400 psi based on the contact area of one row of feet, or pneumatic-tired roller of equivalent compaction characteristics.

The maximum thickness of fill shall be in lifts not to exceed 8 inches. The proper rolling and the fill compaction operations under the building and paved areas shall produce at least 95% of the Standard Proctor density. The compaction of the fill shall be tested during the rolling and during proper rolling shall be undercut and replaced with a properly compacted fill. The compaction of the fill shall be tested during placement by a qualified soil technician to determine if the proper compaction is being obtained. The use of plastic sheeting or other low plasticity soils as approved by the soils engineer. After proper rolling, no water should be allowed to pond on the surface. The earthwork for all building foundations and slabs shall be in accordance with the building specifications. All equipment shall be operating of the site at all times during filling operations.

Ripped rock and shot rock should be placed in horizontal lifts not exceeding 18 inches in loose thickness and compacted by a minimum of five passes of a vibratory roller weighing at least 10 tons. Proper compaction may not be achieved without vibratory roller. Due to the varying gradation of fill materials, density tests will generally be considered inappropriate to determine the quality of the fill. Therefore, performance criteria will be used to evaluate the fill. This involves observing the placement of each lift of fill and the effects of the compaction equipment prior to placing additional fill.

EROSION CONTROL NOTES:

1. Contractor shall assure positive drainage from buildings for all natural & paved areas.

2. All unsurfaced areas are to receive four inches of topsoil. Contractor to seed, mulch, and fertilize all areas outside of paved areas that were disturbed during construction until an acceptable stand of grass is established.
3. Underground facilities, structures, and utilities have been plotted from available surveys and records. Therefore, their locations must be considered approximately only. There may be others, the existence of which is presently not known.
4. No land clearing or grading shall begin until all erosion control measures have been installed.
5. Should construction stop for longer than 15 days, the site shall be seeded as specified by temporary seeding mix.
6. Maintain erosion control measures after each rain and at least once a week.
7. This plan shall not be considered all inclusive as the contractor shall take all necessary precautions to prevent soil sediment from leaving the site.
8. Contractor shall comply with all state and local ordinances that apply.
9. Additional erosion and sediment control measures will be installed if deemed necessary by on site inspection.
10. Land disturbing activities shall not commence until approval to do so has been received by governing authorities.
11. If installation of storm drainage system should be interrupted by weather or nighttime, the pipe ends shall be covered with filter fabric.
12. Contractor shall be responsible to take whatever measures necessary to establish permanent soil stabilization.
13. Contractor shall adjust and/or cut existing pavement as necessary to assure a smooth fit and continuous grade.

1. The sitework on this project shall meet or exceed the City of Warrenton standards and specifications.
2. Bearing system is North derived from Topographic Survey performed by Washington Engineering and Architecture project number 3367.

- The sitework on this project shall meet or exceed the City of Warrenton standards and specifications.
- Bearing system is North derived from Topographic Survey performed by Washington Engineering and Architecture project number 3367.
- Project Benchmark is determined from North derived from Topographic Survey performed by Washington Engineering and Architecture project number 3367.
- Site Benchmark is a "O" in OPEN of a Fire Hydrant located on South Side of Northeast Entrance off State Hwy. 47 as shown on plans.
Elev. = 875.64
- Site is zoned "C-2" General Commercial District per the City of Warrenton Zoning Map.
- This property is within Zone X (areas determined to be about the 0.2% annual exceedance floodplain) per Flood Insurance Rate Map 22218C0142D Community Panel 142, of April, Effective date November 9, 2009.
- In accordance with generally accepted construction practices, the Contractor will be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. The Contractor will be responsible for providing and maintaining all necessary safety equipment with appropriate signage and shall be limited to normal working hours. Contractor will be responsible for providing and maintaining all barricades, warning signs, flashing lights and traffic control devices during construction. Contractor shall comply with all OSHA regulation requirements and safety meeting requirement.
- Underground structures, facilities and utilities have been plotted from available surveys and records. Therefore, their locations must be considered approximate only. There may be others, the existence of which is presently not known.
- No investigation has been performed by Cochran regarding hazardous waste, underground conditions or utilities affecting the tract shown herein.

TRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT
ATION AND DIMENSIONS OF BUILDING APRON, PATIOS, SLOPED
ING, RAMPS, CONCRETE JOINT SPACING, MECHANICAL SCREENING
O FENCES, FLAG POLE, PARKING LOT LIGHTING, PRECISE
LDING DIMENSIONS, AND EXACT UTILITY ENTRANCE LOCATIONS.

BOTTOM OF BOOK
DROP SLOT SHALL
BE 3'-11" ABOVE
TOP OF PAVEMENT

TRACTOR SHALL REFER
ATION AND DIMENSIONS:

TRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT
ATION AND DIMENSIONS OF BUILDING APRON, PATIOS, SLOPED
ING, RAMPS, CONCRETE JOINT SPACING, MECHANICAL SCREENING
O FENCES, FLAG POLE, PARKING LOT LIGHTING, PRECISE
LDING DIMENSIONS, AND EXACT UTILITY ENTRANCE LOCATIONS.

STRUCTURE INFORMATION

STRUCTURE NUMBER	TOP ELEV.	FL. ELEV.
DOWNSPOUT WYE "A"	—	872.43
DOWNSPOUT WYE "B"	—	873.26
DOWNSPOUT CLEANOUT "C"	876.19	873.64

☐ 6"Ø SCH 40 PVC DOWNSPOUT LATERAL

- A 6"Ø SCH 40 PVC DOWNSPOUT LATERAL
(1.00% MIN. GRADE)
- B 8"Ø SDR 35 PVC DOWNSPOUT COLLECTOR
(1.00% MIN. GRADE)

18. Contractor shall coordinate the scheduling and location of the demolition and installation of all utilities, including stakeout, conduit required, trenching required. Contractor shall contact each utility provider with at least 30 days advance notice of any work to be done.
19. Site grading shall not proceed until erosion control measures have been taken.
20. In areas where french drain & storm sewer share the same trench, backfill shall be clean to allow for proper drainage.
21. Contractor shall maintain the site in a well-drained manner in order to assume the shortest possible duration after each rainfall. This will mean that pumping of standing water in low areas on the site will most likely be req'd. during construction.
22. Contractor shall saw cut all curb and gutter sections, concrete medians and along pavement where new storm lines exist in existing pavement. Contractor shall maintain traffic flow and provide traffic control throughout construction.
23. It shall be the contractor's responsibility to keep mud and silt on site off of streets.
24. All cut or fill slopes shall be 3:1 or flatter unless otherwise noted.
25. All storm pipe entering structures shall be grouted to assure connection at structure is watertight.

9. Contractor to contact telephone, electric, gas, water and cable companies to have underground utilities located on this site and adjacent to this site prior to doing any excavating.
10. All unexcavated areas are to receive 4 inches of topsoil. Contractor to seed, mulch, and water, maintain all areas outside of paved areas that were disturbed during construction until an acceptable stand of grass is established. Contractor must take whatever means necessary to establish permanent soil stabilization.
11. See Landscaping Plans for landscaping requirements.
12. All grading, drainage, detention, and erosion control shall be in conformance with the City of Warrenton Standards.
13. The Contractor is specifically cautioned that the location and/or elevation of existing utilities as shown on these plans is based on records of the various utility companies and, where possible, measurements taken in the field. The Contractor must call the appropriate utility company to request exact field location of all utilities. The Contractor is responsible to locate and protect all existing utilities, which conflict with the new improvements shown on plans.
14. All trenches under paved areas shall be backfilled with granular material and compacted to meet compaction requirements for the road/parking lot.
15. All survey monuments disturbed during construction shall be replaced by a licensed land surveyor licensed in the state in which this project is located by the Contractor's expense.
16. Contractor to obtain and follow installation requirements for storm sewer from the local jurisdiction. Type of piping material for storm sewer pipe shall be reinforced concrete pipe, Class III per ASTM C-76, with plastic bitumen grout joints. Storm sewer pipe shall be installed in green areas may be HDPE pipe. (ASTM M252 Type S and M254 Type S).

17. Contractor shall coordinate adjustments to existing utilities with appropriate utility company as work progresses.
18. Contractor shall coordinate the scheduling and location of the demolition and installation of all utilities, including stakeout, conduit required, trenching required, etc. Contractor shall contact each utility provider with at least 30 days advance notice of any work to be done.
19. Contractor shall provide a minimum of 18" of clearance between sanitary sewer and waterlines and a minimum of 18" of clearance between storm sewers and waterlines. This may mean that lowering of waterlines may be necessary.
20. Contractor shall submit shop drawings for sanitary sewer, water main, and storm sewer structures to Cochran for review and approval prior to fabrication of any structures.
21. Storm and sanitary sewer plan information depicts pipe lengths and grades calculated from the center of all structures.
22. All trenching, pipe laying, and backfilling shall be in accordance with Federal OSHA Regulations.
23. Utility Contractor shall have approval of all governing agencies having jurisdiction over this system prior to installation.
24. All necessary inspections, testing, and/or certifications required by codes, the County, and/or utility service companies shall be performed prior to commencing building possession and the final connection of services.
25. Contractor is encouraged to visit the site prior to submitting their bid for this project.
26. Contractor shall maintain the site in a well-drained manner in order to assume the shortest possible drying time after each rainfall. This will mean that pumping of standing water in low areas on the site will most likely be necessary during the construction period.

27. Contractor shall saw cut all curb and gutter sections, concrete medians and along pavement where new construction lies into existing areas. Contractor shall maintain traffic flow and provide traffic control throughout construction.
28. All existing structures unless otherwise noted to remain, (i.e. fencing, trees, concrete, asphalt pavement, utilities, etc.) within the construction area shall be repaired and disposed off-site in a manner meeting local and state regulations. Any burning on site shall be subject to local and state ordinances and the Owner's Specifications.
29. All cut or fill slopes shall be 3:1 or flatter unless otherwise noted.
30. Existing grade contours shown at 1 foot intervals. New grade contours shown at 1 foot intervals.
31. If any existing structures to remain are damaged during construction it shall be the Contractor's responsibility to repair and/or replace the existing structure as necessary to return it to existing conditions or better.
32. Contractor shall assure positive drainage away from buildings for all green space and paved areas.
33. It shall be the contractor's responsibility to keep all mud and silt on site and off of streets.
34. Land disturbing activities shall not commence until approval to do so has been received by governing agencies and until all erosion control measures have been taken.

1. Fill materials shall consist of low plasticity (liquid limit less than 45 percent and a plasticity number less than 10) clean cohesionless materials. Acceptable fill materials include materials designated CL, ML, CL-MC, SP, SW, and GW by ASTM D 2487. Open-graded "clean" granular materials, in general, should not be used, as they tend to hold water, resulting in softening of the underlying cohesive soil subgrade.
 2. Fill shall be placed in 8-inch loose lifts. The engineered fill shall be compacted to at least 85 percent of its standard Proctor (ASTM 698) maximum dry density. Soil fill shall be placed at a moisture content that is plus or minus 2 percent of optimum moisture content. The soil fill may require aeration or wetting at the time of construction to achieve proper compaction. Deleterious material shall not be included in the fill, nor should the fill be placed on soft or frozen materials.
 3. Observation of the compacted fill and field density testing shall be performed by a qualified geotechnical engineer to verify the compaction and moisture content. The engineer shall ensure that high plastic or highly compressible soils are not in the fill within the building pad area.
 4. Proper drainage shall be provided to protect the foundation excavations, floor slab and pavement subgrades from the detrimental effects of weather conditions during construction. Finished subgrades and foundation excavations shall be kept free of standing water at all times. Positive drainage shall be provided to reduce surface water infiltration around the perimeter of the building and beneath the floor slab.
 5. Utility trenches beneath the floor slab and pavement areas shall be carefully backfilled with compacted low plastic soil or minus gradation crushed rock.
 6. The floor slabs shall be underlain by a minimum 4-inch layer of well-graded crushed rock.
4. A Geotechnical Engineer shall observe the following site activities:
- a. Removal of existing fill and soft soils within the building pad and proofrolling existing fill on non-building areas.
 - b. Placement of structural fill and backfill.
 - c. Foundation excavations to verify that suitable bearing materials are present.
 - d. Floor slab subgrades to assess the impact of density and high plastic clay soils and to verify the absence of the soils in the subgrade.
 - e. Testing of subgrade during pavement construction.

1. The soil stratigraphy at the site generally consists of very soft to soft, low plastic silty clay to stiff to very stiff, high plastic clay to boring termination depth within the proposed building footprint. The soil is composed of silty clay to silty clay with sand, B-1, B-2, and B-4 to depths of 6 to 8 feet (EL 870.5 to 868) within the proposed building addition.
2. Fill consisting of low to high plastic clay was encountered in Borings B-1 and B-3 to a depth of 5 feet (EL 873). The fill appears to be uncontrolled and is considered compressible.
3. Groundwater was encountered in B-1, B-2, B-4 and B-5 at depths of 3 to 7 feet during the surface exposure.
4. All vegetation/organic materials and pavement must be stripped where encountered. The organic material should be backfilled on-site for later use in landscaped areas or disposed of off-site in a legal manner. In all areas, the resulting exposed subgrade should be proofrolled, and any soft soil or yielding areas shall be over excavated and backfilled with new compacted fill or well-graded crushed rock.
5. Very soft to soft, very moist, low plastic, silty clay soils encountered within the proposed building addition shall be removed. The existing soil shall be removed to a minimum depth of 3 feet beneath the bearing level of all new foundations. The overexcavation shall extend at least 2 feet beyond the outside edge of the footings to facilitate uniform compaction of the replacement material. The excavation and may be backfilled with compacted sand or crushed limestone for proper compaction. The overexcavation shall be backfilled with properly compacted 1-inch minus crushed limestone with an interbedded geogrid-reinforcing layer at a depth of approximately 1.5 feet. A geogrid and may be provided at the base of the over-excavation to help provide a stable base/platform for the engineered fill. With this approach the proposed addition may be supported on strip and spread footings proportioned for a net allowable bearing pressure of 1,250 pounds per square foot (psf).

***SITE IMPROVEMENT PLANS
SCENIC REGIONAL LIBRARY
WARRENTON, MISSOURI***

DRAWING PLAN	DATE:	ISSUANCE:	DATE BY:	APPROVED BY:
	04-14-17	ISSUED FOR BID	TES	DPV
FROM NO:	DATE: APR. 14, 2017			
DWG. NO:	SCALE: 1"=20'			
	16-6413			

C3

636-584-0540 (Tel.)
636-584-0512 (fax)
mail@ochran.com

530A E. Independence Dr.
Union, Missouri 63084

CHROAN

Missouri State Certificate of Authority Numbers:
Survey : 000380
Engineering : 001655
Architecture : 200201424

Civil Engineering
Land Surveying
Architecture
Site Development
General Consulting
Management Planning

636-584-0549 (tel.)
636-584-0512 (fax)
mail@ochran.com
5304 E. Independence Dr.
Union, Missouri 63084

POCHRAN

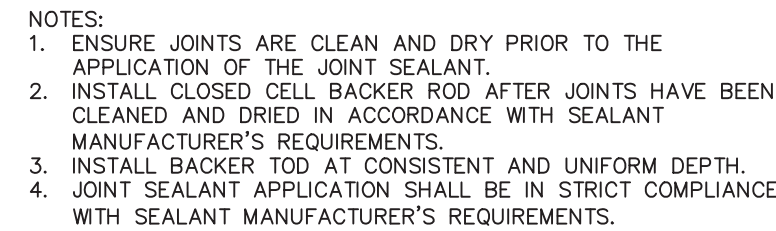
Missouri State Certificate of
Survey: 000380
Engineering: 001655
Architecture: 200201424

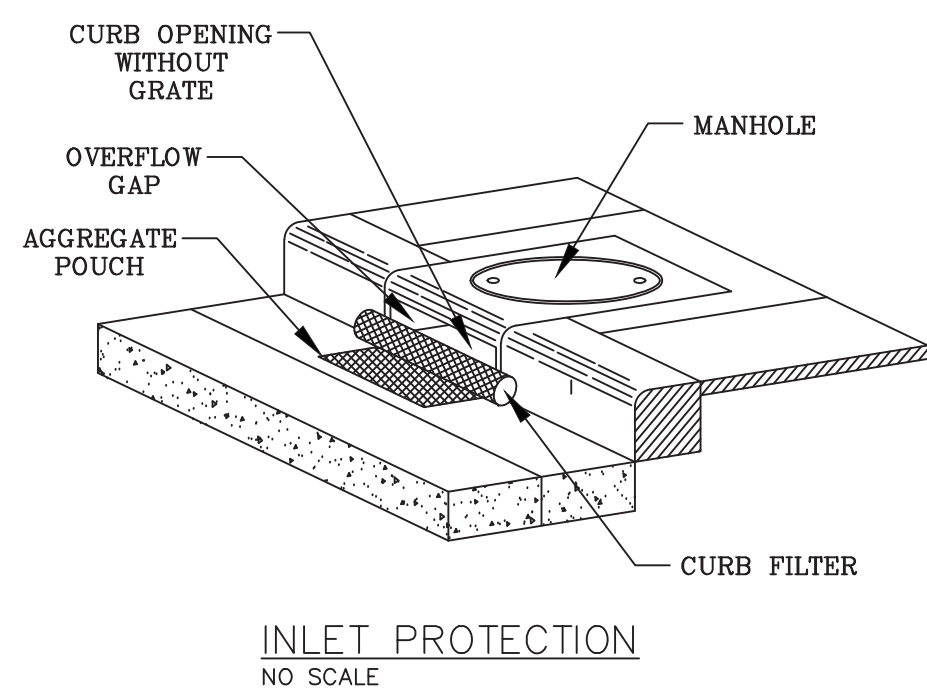
Two working days prior to
the start of any excavation
work, the contractor shall
call 1-800-4-A-TUNE for utility
location information.

All OSHA rules & regulations
pertaining to excavation and
construction required by these
plans shall be strictly followed.

David P. Van Leer, PE
MO# PE-2012018147

David P Van Leer, PE
MO# PE-2012018147





LANDSCAPE NOTES:

- LANDSCAPE CONTRACTOR TO VERIFY LOCATION OF UNDERGROUND UTILITIES BEFORE BEGINNING WORK.
- ALL LANDSCAPE SHALL COMPLY WITH THE CURRENT EDITION OF ANSI Z 60.1 "AMERICAN STANDARD FOR NURSERY STOCK."
- ALL PLANTS SHALL MEET THE REQUIREMENTS OF THE STATE AND FEDERAL LAW WITH RESPECT TO DISEASE AND INSECT INFESTATION.
- MULCH AREAS WITH TRIPLE GROUND HARDWOOD MULCH 3" MIN. DEPTH.
- ALL LANDSCAPE SUBSTITUTIONS MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT.
- FORMAL LINES AND GROUPINGS OF A SPECIES OF TREE, SHRUB, OR GROUNDCOVER SHALL BE MATCHED FOR SIZE, FORM, AND COLOR.
- ALL BACKFILL IN PLANTING BEDS AND TREE PITS SHALL BE BACKFILLED WITH PLANTING SOIL.
- ALL TREES OUTSIDE OF PLANT BEDS SHALL BE PLANTED WITH A MULCH RING. OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT FOR ANY TREES THAT WILL NOT BE MULCHED FOR EXCESSIVE MOISTURE REASONS.
- ALL LANDSCAPING SHALL BE INSTALLED AS SHOWN ON THE APPROVED PLAN.
- AT PLANTING, TREE TRUNKS MUST BE STRAIGHT WITH MINIMAL DOGLEGES.
- WIRE BASKETS, BURLAP WRAPPINGS, ROPE, TWINE OR ANY SIMILAR SHIPPING MATERIALS SHALL BE REMOVED BEFORE PLANTING.
- A SPADE CUT EDGE SHALL BE CREATED AT ALL LOCATIONS WHERE PLANTING BEDS ARE ADJACENT TO GRASS AREAS UNLESS OTHERWISE NOTED.
- SEE CIVIL PLANS FOR TYPE AND LOCATION OF EROSION CONTROL MATERIALS.
- DO NOT DISTURB EXISTING UTILITIES WITHIN WORK AREA, SILT FENCE AND PLANTINGS SHALL AVOID ANY EXISTING UTILITIES.
- THE CONTRACTOR SHALL FOLLOW THE LANDSCAPE PLANS. ANY SUBSTITUTION OR ALTERATION SHALL NOT BE ALLOWED WITHOUT APPROVAL OF THE OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT. OVERALL PLANT QUANTITY AND QUALITY SHALL BE CONSISTENT WITH THE PLANS.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES. WRITTEN QUANTITIES TAKES PRECEDENCE OVER GRAPHIC QUANTITIES. NOTIFY OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT OF DISCREPANCIES.
- THE OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT RESERVES THE RIGHT TO INSPECT AND TAG ALL

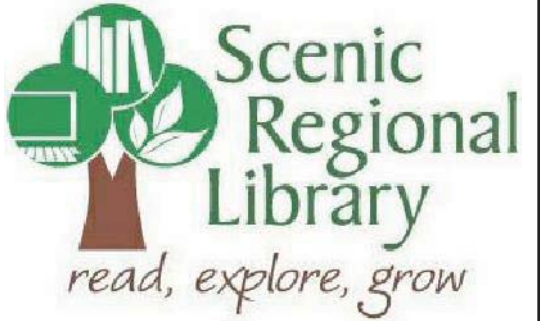
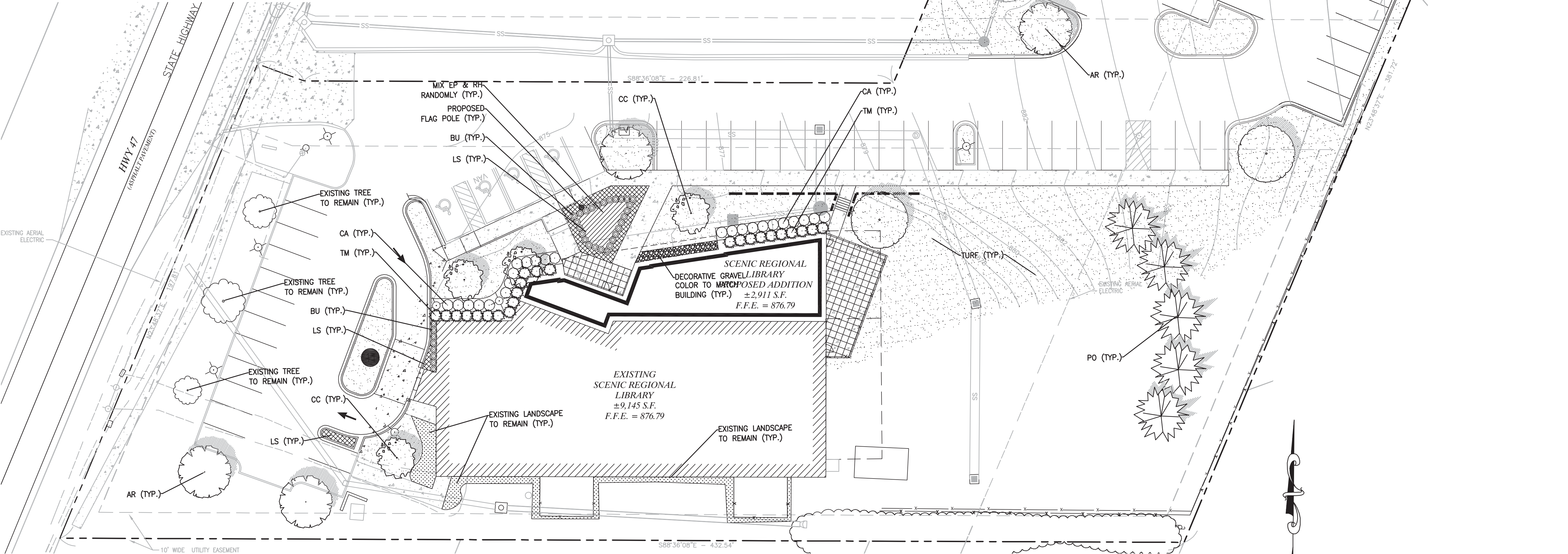
- PLANT MATERIAL PRIOR TO SHIPPING TO THE SITE. IN ALL CASES, THE LANDSCAPE ARCHITECT MAY REJECT PLANT MATERIAL AT THE SITE IF MATERIAL IS DAMAGED, DISEASED, OR DECLINING IN HEALTH AT THE TIME OF ONSITE INSPECTIONS OR IF THE PLANT MATERIAL DOES NOT MEET THE MINIMUM SPECIFIED STANDARD IDENTIFIED ON THE PLANS AND IN THE SPECIFICATIONS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT FOR INSPECTION AND APPROVAL OF ALL MATERIALS AND PRODUCTS PRIOR TO INSTALLATION.
- THE OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT MAY ELECT TO UPSIZE PLANT MATERIAL AT THEIR DISCRETION BASED ON SELECTION, AVAILABILITY, OR TO ENHANCE SPECIFIC AREAS OF THE PROJECT. THE CONTRACTOR SHALL VERIFY PLANT MATERIAL SIZES WITH OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT PRIOR TO PURCHASING, SHIPPING OR STOCKING OF PLANT MATERIALS. SUBMIT CHANGE ORDER REQUEST TO OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT FOR APPROVAL IF ADDITIONAL COST IS REQUESTED BY THE CONTRACTOR PRIOR TO INSTALLATION. RE-STOCKING CHARGES WILL NOT BE APPROVED IF THE CONTRACTOR FAILS TO SUBMIT A REQUEST FOR MATERIAL CHANGES.
 - THE CONTRACTOR SHALL WARRANTY ALL CONTRACTED WORK AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION HAS BEEN ISSUED BY THE OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT FOR THE ENTIRE PROJECT UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS OR SPECIFICATIONS.
 - THE DEVELOPER, HIS SUCCESSORS AND ASSIGNS SHALL BE RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE AND REPLACEMENT OF ALL LANDSCAPING MATERIALS SHOWN OR INDICATED ON THE APPROVED LANDSCAPE PLAN ON FILE WITH THE PLANNING DEPARTMENT. ALL LANDSCAPING WILL BE INSTALLED AS DELINEATED ON THE PLAN, PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY.
 - PRIOR TO INSTALLATION OF PLANT MATERIALS, AREAS THAT HAVE BEEN COMPACTED OR DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE THOROUGHLY LOOSENEED TO A DEPTH OF 8" - 12" AND AMENDED PER SPECIFICATIONS.
 - ALL LANDSCAPED AREAS ARE TO HAVE SOIL PREPARATION PER SPECIFICATIONS. (MINIMUM RATE OF 3 CU. YDS. OF ORGANIC MATTER PER 1000 S.F.). TREES SHALL NOT BE LOCATED IN DRAINAGE SWALES, DRAINAGE AREAS, OR UTILITY EASEMENTS. CONTACT OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT FOR RELOCATION OF PLANTS IN QUESTIONABLE AREAS PRIOR TO INSTALLATION.
 - ALL EVERGREEN TREES SHALL BE FULLY BRANCHED TO THE GROUND AND SHALL NOT EXHIBIT SIGNS OF ACCELERATED GROWTH AS DETERMINED BY THE OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT.

- ALL TREES ARE TO BE STAKED AND GUYED PER DETAILS FOR A PERIOD OF 1 YEAR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING STAKES AT THE END OF 1 YEAR FROM ACCEPTANCE OF LANDSCAPE INSTALLATION BY THE OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT. OBTAIN APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO REMOVAL.
- ALL TREES INSTALLED ABOVE RETAINING WALLS UTILIZING GEO-GRID MUST BE HAND DUG TO PROTECT GEO-GRID. IF GEO-GRID MUST BE CUT TO INSTALL TREES, APPROVAL MUST BE GIVEN BY OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT PRIOR TO DOING WORK.
- PLACE PLANT MATERIAL IN SHRUB BED SO THAT ONCE PLANTS GROW TO FULL SIZE THEY ARE FULLY CONTAINED WITHIN THE SHRUB BED AREA AND DO NOT HANG OVER THE EDGER LINE.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE EXISTS IN ALL LANDSCAPE AREAS. SURFACE DRAINAGE ON LANDSCAPE AREAS SHALL NOT FLOW TOWARD STRUCTURES AND FOUNDATIONS. MAINTAIN SLOPE AWAY FROM FOUNDATIONS PER THE GEOTECHNICAL REPORT RECOMMENDATIONS. ALL LANDSCAPE AREAS BETWEEN WALKS AND CURBS SHALL DRAIN FREELY TO THE CURB UNLESS OTHERWISE IDENTIFIED ON THE GRADING PLAN. IN NO CASE SHALL THE GRADE, TURF THATCH, OR OTHER LANDSCAPE MATERIALS DAM WATER AGAINST WALKS. MINIMUM SLOPES ON LANDSCAPE AREAS SHALL BE 2%; MAXIMUM SLOPE SHALL BE 25% UNLESS SPECIFICALLY IDENTIFIED ON THE PLANS OR

- APPROVED BY THE OWNER'S REPRESENTATIVE/LANDSCAPE ARCHITECT.
- SHRUB, GROUNDCOVER AND PERENNIAL BEDS ARE TO BE CONTAINED BY A SPADE CUT EDGE. EDGER IS NOT REQUIRED WHEN ADJACENT TO CURBS, WALLS, WALKS OR SOLID FENCES WITHIN 3" OF PRE-MULCHED FINAL GRADE. EDGER SHALL NOT BE REQUIRED TO SEPARATE MULCH TYPES UNLESS SPECIFIED ON THE PLANS.
 - ALL SHRUB BEDS ARE TO BE MULCHED WITH MIN. 3" DEPTH, SHREDDED HARDWOOD BARK MULCH.
 - AT SEED AREA BOUNDARIES ADJACENT TO EXISTING NATIVE AREAS, OVERLAP ABUTTING NATIVE AREAS BY THE FULL WIDTH OF THE SEEDER.
 - EXISTING TURF AREAS THAT ARE DISTURBED DURING CONSTRUCTION, ESTABLISHMENT AND THE MAINTENANCE PERIOD SHALL BE RESTORED WITH SEED TO MATCH EXISTING TURF SPECIES.
 - CONTRACTOR SHALL OVER SEED ALL MAINTENANCE OR SERVICE ACCESS BENCHES AND ROADS WITH SPECIFIED SEED MIX UNLESS OTHERWISE NOTED ON THE PLANS.
 - ALL SEEDED SLOPES EXCEEDING 25% IN GRADE (4:1) SHALL RECEIVE EROSION CONTROL BLANKETS. PRIOR TO INSTALLATION, NOTIFY OWNER'S REPRESENTATIVE FOR APPROVAL OF LOCATION AND ANY ADDITIONAL COST IF A CHANGE ORDER IS NECESSARY.
 - WHEN COMPLETE, ALL GRADES SHALL BE WITHIN +/- 1/8" OF FINISHED GRADES AS SHOWN ON THE PLANS.

PLANT SCHEDULE

CODE	QTY.	GENUS	SPECIES	COMMON NAME	SIZE	COND.	COMMENTS
DECIDUOUS TREES							
QR	4	QUERCUS	RUBRA	NORTHERN RED OAK	2.5" CAL. MIN.	B&B	
AR	4	ACER	RUBRUM	RED MAPLE	2.5" CAL. MIN.	B&B	
EVERGREEN TREES							
PO	5	PICEA	OMORIKA	SERBIAN SPRUCE	6' HT. MIN.	B&B	
FLOWERING TREES							
CC	4	CERCIS	CANADENSIS	EASTERN REDBUD	1.5" CAL. MIN.	B&B	
SHRUBS							
TM	24	TAXUS	X MEDIA 'DENSIFORMIS'	YEW	3 GAL.	CONT.	
CA	24	CEANOTHUS	AMERICANUS	NEW JERSEY TEA	2 GAL.	CONT.	
BU	35	BUXUS	'GREEN VELVET'	GREEN VELVET BOXWOOD	18"-24" MIN.	CONT.	PLANT 30" O.C.
NATIVE GRASSES							
EP	45	ECHINACEA	PURPUREA	PURPLE CONEFLOWER	SP4	CONT.	18" O.C.
RH	45	RUDBECKIA	HIRTA	BLACK-EYED-SUSAN	SP4	CONT.	18" O.C.
GROUND COVER							
LS	145	LIRIOPE	SPICATA	LILY TURF	1 GAL.	CONT.	18" O.C.
SEED							
-	2,698	SY	-	FESCUE SEED	SEED	-	



SCENIC REGIONAL
LIBRARY
WARRENTON BRANCH
912 S. HIGHWAY 47
WARRENTON, MO 63383



ARCHITECT-OF-RECORD
JEMA
3005 LOCUST ST.
ST. LOUIS, MO 63103
T (314) 531-7400
CONTACT: SCOTT CLARK
E-MAIL: SCLARK@JEMASTL.COM

DESIGN ARCHITECT
SAPP DESIGN ASSOCIATES ARCHITECTS
3750 SOUTH FREMONT
SPRINGFIELD, MO 65804
T (417) 877-9600
F (417) 877-9696
CONTACT: JAMES STUFFLEBEAM
E: STUFFLEBEAM@SDAAARCHITECTS.COM

CIVIL
COCHRAN
530A E. INDEPENDENCE DRIVE
UNION, MO 63084
CONTACT: DAVE VAN LEER
T (636) 584-5540
F (636) 584-5512
E-MAIL: DVANLEER@COCHRAN.COM

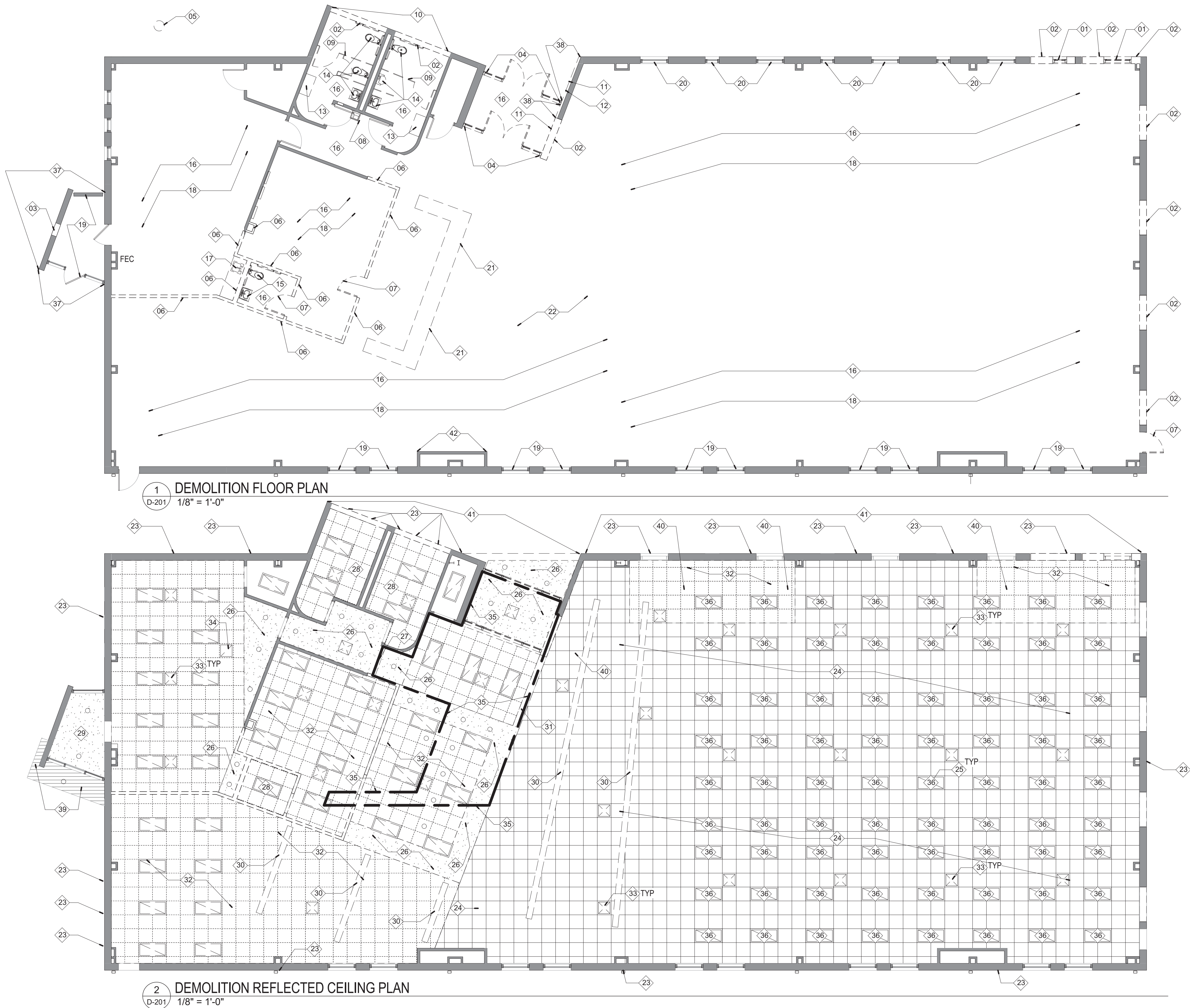
STRUCTURAL
ALPER AUDI, INC.
1804 BORMAN CIRCLE DRIVE
ST. LOUIS, MO 63146
T (314) 432-9600
F (314) 807-2774
CONTACT: STEVE EHRETT
E-MAIL: STEVE.EHRETT@ALPERAUDI.COM

MECHANICAL, ELECTRICAL, PLUMBING
BRIC PARTNERSHIP, LLC
343 S. KIRKWOOD ROAD, SUITE 204
KIRKWOOD, MO 63122
T (314) 725-5889
CONTACT: BRUCE COLEMAN
E: BCOLEMAN@BRICPARTNERSHIP.COM

No.	Date	Description
	04/14/17	ISSUED FOR BID

DRAWN BY: J.C.H.
PROJECT NUMBER: 16-1161.06
SHEET TITLE: LANDSCAPE PLAN

L1.0



1 DEMOLITION FLOOR PLAN
D-201
1/8" = 1'-0"

2 DEMOLITION REFLECTED CEILING PLAN
D-201
1/8" = 1'-0"

KEYED NOTES - DEMO

KEYNOTE NUMBER	DESCRIPTION
01	REMOVE AND DISCARD WINDOW UNIT AND ALL TRIM/FLASHING.
02	REMOVE PORTION OF EXTERIOR CMU AND BRICK VENEER WALL AS INDICATED. SALVAGE ALL FULL BRICK FOR REUSE AT INFILL WILDOW AREA.
03	REMOVE PORTION OF WALL AS REQUIRED FOR IN WALL BOOK DROP UNIT.
04	REMOVE AND DISCARD STOREFRONT WINDOW SYSTEM AND ALL TRIM/FLASHING.
05	REMOVE AND DISCARD FLAG POLE.
06	REMOVE WALL PARTITION AS INDICATED FROM FLOOR SLAB UP TO ROOF FRAMING.
07	REMOVE AND DISCARD DOOR FRAME, DOOR AND ALL HARDWARE.
08	REMOVE AND DISCARD DRINKING FOUNTAIN, REFER TO PLUMBING DWGS. FOR TERMINATIONS.

KEYED NOTES - DEMO

KEYNOTE NUMBER	DESCRIPTION
09	REMOVE AND DISCARD TOILET PARTITIONS.
10	REMOVE ALL PIN MOUNTED SIGNAGE, SIGNAGE IS NOT POWERED.
11	REMOVE ADA POWERED DOOR SWITCH, SEE PLANS FOR REPAIR AT THIS AREA.
12	REMOVE RECESSED KNOX BOX, SEE PLANS FOR REPAIR AT THIS AREA.
13	REMOVE AND DISCARD BABY CHANGING STATION.
14	REMOVE AND DISCARD TOILET, URINAL, LAV., GRAB BARS AND ALL ACCESSORIES, REFER TO PLUMBING DWGS. FOR TERMINATIONS.
15	REMOVE AND DISCARD TOILET, LAV., GRAB BARS AND ALL ACCESSORIES, REFER TO PLUMBING DWGS. FOR TERMINATIONS.
16	REMOVE ALL FLOORING DOWN TO CONCRETE SLAB.
17	REMOVE COUNTER, BASE CABINET, SINK AND ALL PLUMBING.
18	ALL EXISTING SHELVING AND FURNITURE TO BE REMOVED BY SCENIC REGIONAL LIBRARY STAFF IN PREP FOR CONSTRUCTION.

KEYED NOTES - DEMO

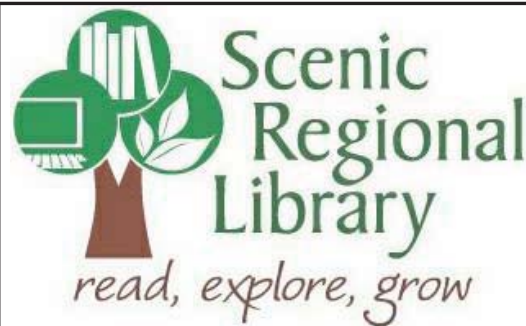
KEYNOTE NUMBER	DESCRIPTION
19	EXISTING WINDOW UNIT, SILL AND EXT. TRIM TO REMAIN AS-IS.
20	EXISTING WINDOW UNIT TO REMAIN, REMOVE ANY PROJECTING SILL IN PREP FOR NEW INFILL WALL CONDITION.
21	REMOVE AND DISCARD CIRCULATION DESK TERMINATING ALL POWER AND DATA AS REQUIRED.
22	REMOVE AND TERMINATE ALL DATA AND POWER THIS AREA AS REQUIRED.
23	REMOVE EXT. WALL MOUNTED LIGHT FIXTURES AND TERMINATE POWER AS REQUIRED.
24	EXISTING 2X2 CEILING GRID TO REMAIN THIS AREA. ALL CEILING TILE TO BE REMOVED.
25	REMOVE AND DISCARD 2X4 LIGHT FIXTURE, REFER TO CEILING PLAN AND ELECTRICAL FOR NEW LIGHTING CONDITION.
26	REMOVE AND/ DISCARD GYP. BD. CEILING AND ALL FRAMING.

GENERAL NOTES - DEMOLITION

- PROVIDE TEMPORARY BARRICADES AND OTHER FORMS OF PROTECTION AS REQUIRED TO PROTECT OWNER'S AND CLIENT'S PERSONNEL AND GENERAL PUBLIC FROM INJURY DUE TO SELECTIVE DEMOLITION WORK.
- ERECT AND MAINTAIN DUST-PROOF PARTITIONS AND CLOSURES AS REQUIRED TO PREVENT SPREAD OF DUST OR FUMES TO OCCUPIED PORTIONS OF THE BUILDING. PROTECT MECHANICAL SYSTEM AS REQUIRED.
- CONDUCT SELECTIVE DEMOLITION OPERATIONS AND DEBRIS REMOVAL IN A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES.
- MAINTAIN FIRE PROTECTION SERVICES DURING SELECTIVE DEMOLITION.
- COVER AND PROTECT EQUIPMENT AND FIXTURES INDICATED "TO REMAIN" FROM SOILAGE OR DAMAGE.
- LOCATE, IDENTIFY, STUB OFF, AND DISCONNECT UTILITY SERVICES THAT ARE NOT INDICATED TO REMAIN.
- PERFORM SELECTIVE DEMOLITION WORK IN A SYSTEMATIC MANNER.
- WHERE INDICATED ON DRAWINGS AS "SALVAGE AND STORE," CAREFULLY REMOVE INDICATED ITEMS, CLEAN, STORE, AND REUSE AS REQUIRED. DELIVER UNUSED ITEMS AT COMPLETION OF PROJECT TO CLIENT.
- WHERE INDICATED ON DRAWINGS AS "SALVAGE AND DELIVER TO OWNER," CAREFULLY REMOVE INDICATED ITEMS, CLEAN, STORE, AND RETURN TO OWNER.
- U.N.O. REMOVE ALL EXISTING FLOORING (CARPET TILE, BROADLOOM CARPET, RESILIENT FLOORING, VINYL COMPOSITION TILE, CERAMIC TILE, STONE TILE, ALL BASE, ETC.) WITHIN SCOPE OF WORK AREA. CLEAN AND PREPARE CONCRETE SLAB FLOOR AREA TO RECEIVE NEW FLOORING MATERIALS, INCLUDING REMOVAL OR SEALING OF ANY REMAINING EXISTING ADHESIVE AS REQUIRED, PATCHING CRACKS, AND LEVELING OF FLOOR TO MEET REQUIRED TOLERANCES FOR SCHEDULED FINISHES. PERFORM MOISTURE TESTING ON FLOOR TO DETERMINE IF EXTENSIVE FLOOR PREP IS REQUIRED.
- U.N.O. REMOVE ALL EXISTING WALLS, PARTITIONS, PANELS, SHELVING, CASEWORK, GLASS, ETC.
- REMOVE ALL WALL-MOUNTED TACKBOARDS, WHITEBOARDS, FABRIC-WRAPPED PANELS, ETC. IN ALL ROOMS IN SCOPE OF WORK.
- REMOVE ALL EXISTING ACOUSTICAL CEILING TILE, DRYWALL CEILINGS, COVES, ALL CEILING SUSPENSION SYSTEMS, AND ALL CEILING ELEMENTS INSTALLED IN CEILINGS.
- IN AREAS WHERE DEMOLITION OCCURS AND THE ADJACENT SUSPENDED ACOUSTICAL CEILING SYSTEM IS INDICATED TO REMAIN, PATCH EXISTING ACOUSTICAL CEILING GRID TO MATCH EXISTING CEILING GRID HEIGHT, STYLE AND ORIENTATION.
- U.N.O. REMOVE ALL EXISTING LIGHT FIXTURES.
- WHERE WALLS OR PARTITIONS ARE TO BE REMOVED, REMOVE OR RELOCATE ALL EXISTING ELECTRICAL WIRING, DATA CABLING, TELEPHONE LINES, CABLE LINES, SATELLITE LINES, CONDUIT, WIRE MOLD, RECEPTACLES AND SWITCH BOXES, ETC. LOCATED WITHIN DEMOLISHED PORTIONS.
- REMOVE ALL EXISTING OUTLETS, RECEPTACLES, COVERS, BOXES, AND WIRING NOT INDICATED TO BE REUSED. REMOVE ALL ABANDONED WIRING BACK TO JUNCTION BOX OR PANEL AS REQUIRED. UPDATE PANEL LABELING TO REFLECT ALL MODIFICATIONS.
- CONFIRM SCOPE OF REMOVAL REQUIRED FOR EXISTING DATA AND PHONE CABLING WITH BUILDING OWNER AND CLIENT.
- REMOVE TOILET FIXTURES, SINKS, PANELS, ACCESSORIES, ABANDONED WATER SUPPLY AND DRAIN LINES, AND CAP-OFF ALL PLUMBING LINES FLUSH WITH FLOOR SLAB. PATCH AND REPAIR FLOOR AS REQUIRED.
- U.N.O. ALL EXISTING WINDOW TREATMENTS TO BE REMOVED.
- U.N.O. REMOVE ALL EXISTING FLOOR OUTLETS AND ASSOCIATED WIRING, CABLING AND CONDUIT AND REPAIR FLOOR, MAINTAINING REQUIRED FLOOR ASSEMBLY RATING, TO BE FLUSH AND CONTINUOUS WITH ADJACENT FLOOR SURFACE, AS REQUIRED FOR NEW FINISH.
- REMOVE ALL EXISTING INTERIOR BUILDING SIGNAGE IN SCOPE OF WORK, INCLUDING BUT NOT LIMITED TO, ROOM SIGNAGE, DOOR SIGNAGE, ETC.
- HAZARDOUS MATERIALS: CLIENT ACCEPTS SOLE RESPONSIBILITY FOR COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS RELATING TO THE ENVIRONMENT, INCLUDING BUT NOT LIMITED TO THE NATIONAL EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS AND THE OCCUPATIONAL SAFETY AND HEALTH ACT. THE ARCHITECT AND ARCHITECTS CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL, OR DISPOSAL OF OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.

KEYED NOTES - DEMO

KEYNOTE NUMBER	DESCRIPTION
27	REMOVE ROLLING GRILLE AND ALL FRAMING.
28	REMOVE CEILING GRID, TILES, LIGHTING AND EXHAUST FAN THIS ROOM IN PREP. FOR NEW CONDITION.
29	REMOVE CEILING GRID, TILES, LIGHTING AND EXHAUST FAN THIS ROOM IN PREP. FOR NEW CONDITION.
30	REMOVE SUSPENDED LINEAR LIGHT FIXTURE.
31	REMOVE GYP. BD. BULKHEAD.
32	REMOVE CEILING GRID, TILES AND ALL LIGHTING THIS AREA IN PREP. FOR NEW CONDITION.
33	REMOVE AND DISCARD SUPPLY AIR GRILLE, REFER TO MECHANICAL DRAWINGS FOR NEW CONDITION.
34	REMOVE AND DISCARD RETURN AIR GRILLE, REFER TO MECHANICAL DRAWINGS FOR NEW CONDITION.
35	AREA BOUND BY HEAVY DASHED LINE INDICATES AREA OF CEILING OPEN TO STRUCTURE/DECK. ANY LOOSE CABLING TO BE PLACED TIGHT TO DECK.
36	LIGHT FIXTURE TO REMAIN/BE REUSED.
37	REMOVE WALL CLADDING DOWN TO SHEATHING IN PREP FOR NEW CLADDING, REFER TO ELEVATION AND DETAILS FOR NEW CONDITION.
38	REMOVE BRICK CLADDING THIS AREA IN PREP FOR NEW WALL CONDITION.
39	EXISTING CANOPY TO REMAIN.
40	NOT USED.
41	REMOVE WALL COPING THIS AREA IN PREPARATION FOR NEW TOP OF WALL CONDITION AT EXISTING FACE OF BUILDING. REFER TO EXPANSION JOINT DETAIL.
42	REMOVE GYP. BD. FROM THIS PARTION IN PREP FOR NEW WALL FINISH. WALL STUDS TO REMAIN AS-IS.



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ARCHITECT OF RECORD:

JOHN EDWARD MUELLER
MO ARCHITECTURAL LICENSE A2010039554
MO CERTIFICATE OF AUTHORITY A2014008380

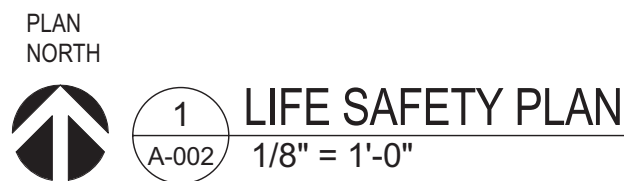
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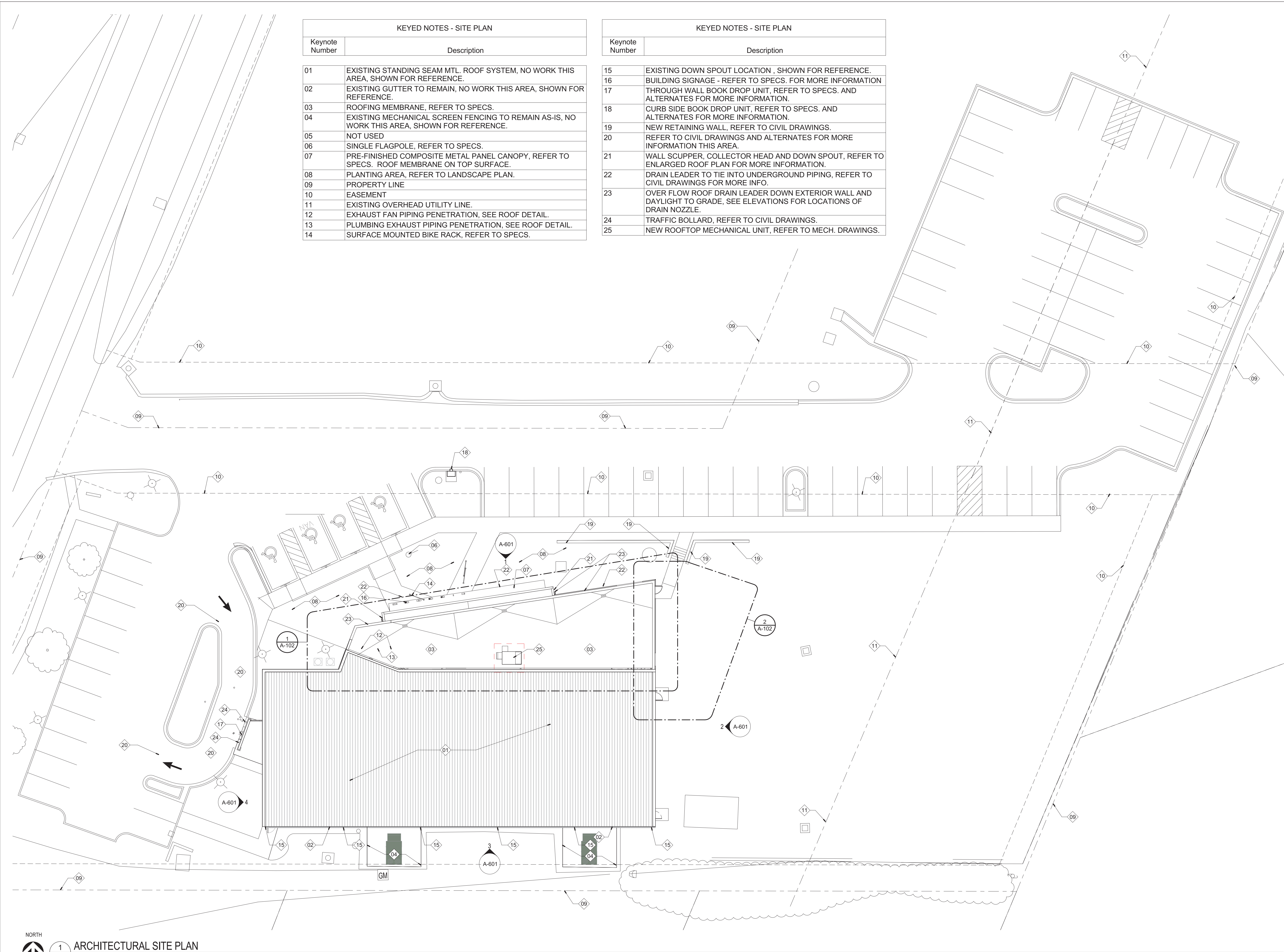
PROJECT NUMBER: 16-1161.06

SHEET TITLE:
DEMOLITION PLAN

D-201

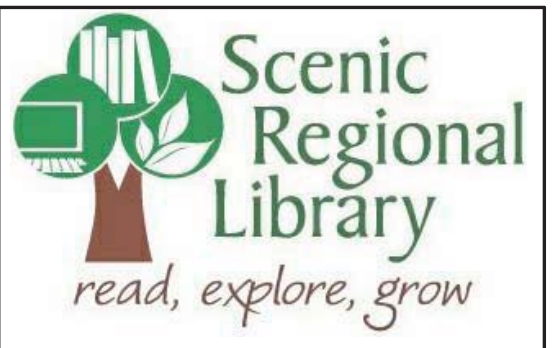


A-002



KEYED NOTES - SITE PLAN	
Keynote Number	Description
01	EXISTING STANDING SEAM MTL. ROOF SYSTEM, NO WORK THIS AREA, SHOWN FOR REFERENCE.
02	EXISTING GUTTER TO REMAIN, NO WORK THIS AREA, SHOWN FOR REFERENCE.
03	ROOFING MEMBRANE, REFER TO SPECS.
04	EXISTING MECHANICAL SCREEN FENCING TO REMAIN AS-IS, NO WORK THIS AREA, SHOWN FOR REFERENCE.
05	NOT USED
06	SINGLE FLAGPOLE, REFER TO SPECS.
07	PRE-FINISHED COMPOSITE METAL PANEL CANOPY, REFER TO SPECS. ROOF MEMBRANE ON TOP SURFACE.
08	PLANTING AREA, REFER TO LANDSCAPE PLAN.
09	PROPERTY LINE
10	EASEMENT
11	EXISTING OVERHEAD UTILITY LINE.
12	EXHAUST FAN PIPING PENETRATION, SEE ROOF DETAIL.
13	PLUMBING EXHAUST PIPING PENETRATION, SEE ROOF DETAIL.
14	SURFACE MOUNTED BIKE RACK, REFER TO SPECS.

KEYED NOTES - SITE PLAN	
Keynote Number	Description
15	EXISTING DOWN SPOUT LOCATION , SHOWN FOR REFERENCE.
16	BUILDING SIGNAGE - REFER TO SPECS. FOR MORE INFORMATION
17	THROUGH WALL BOOK DROP UNIT, REFER TO SPECS. AND ALTERNATES FOR MORE INFORMATION.
18	CURB SIDE BOOK DROP UNIT, REFER TO SPECS. AND ALTERNATES FOR MORE INFORMATION.
19	NEW RETAINING WALL, REFER TO CIVIL DRAWINGS.
20	REFER TO CIVIL DRAWINGS AND ALTERNATES FOR MORE INFORMATION THIS AREA.
21	WALL SCUPPER, COLLECTOR HEAD AND DOWN SPOUT, REFER TO ENLARGED ROOF PLAN FOR MORE INFORMATION.
22	DRAIN LEADER TO TIE INTO UNDERGROUND PIPING, REFER TO CIVIL DRAWINGS FOR MORE INFO.
23	OVER FLOW ROOF DRAIN LEADER DOWN EXTERIOR WALL AND DAYLIGHT TO GRADE, SEE ELEVATIONS FOR LOCATIONS OF DRAIN NOZZLE.
24	TRAFFIC BOLLARD, REFER TO CIVIL DRAWINGS.
25	NEW ROOFTOP MECHANICAL UNIT, REFER TO MECH. DRAWINGS.



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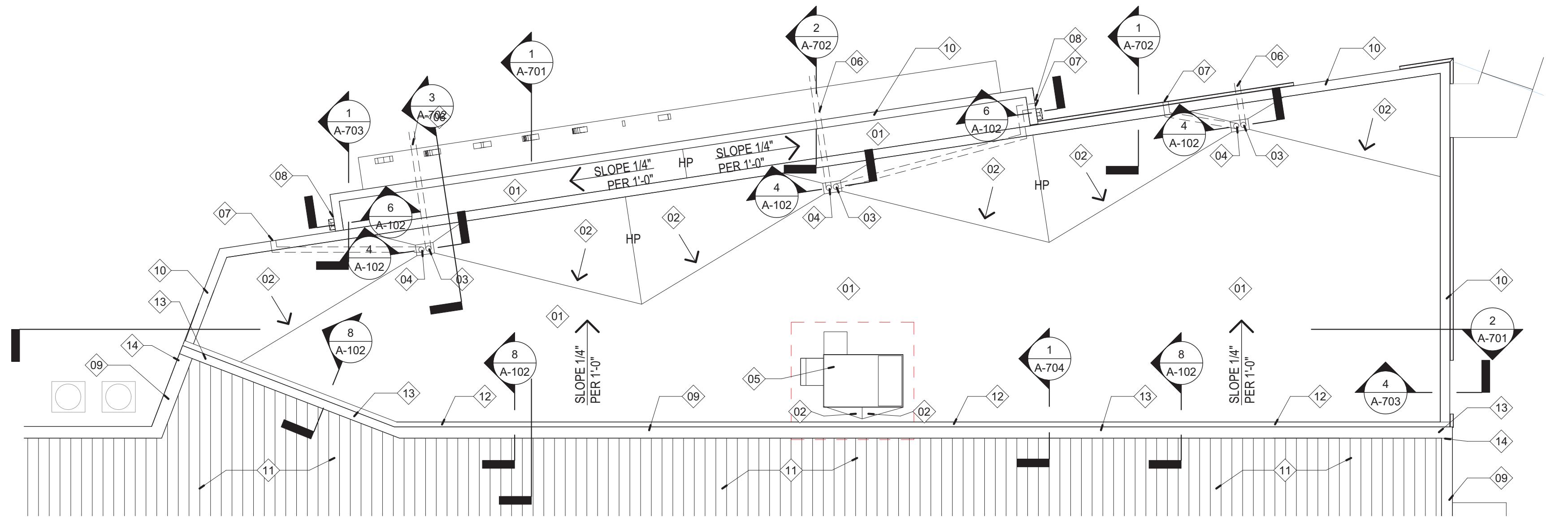
ARCHITECT OF RECORD:		
JOHN EDWARD MUELLER MO ARCHITECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380		
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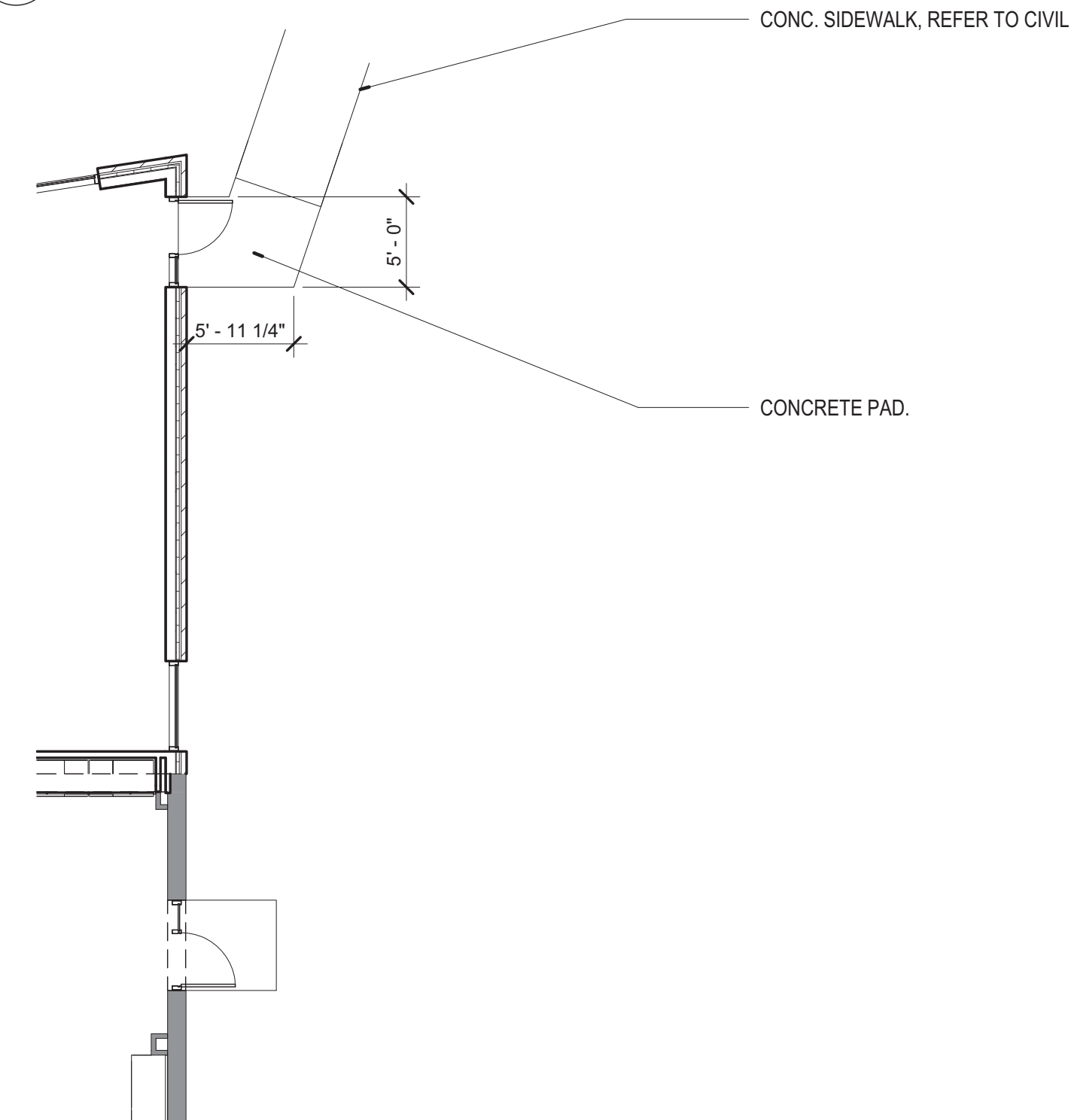
PROJECT NUMBER: **16-1161.06**

SHEET TITLE:
ARCHITECTURAL SITE PLAN

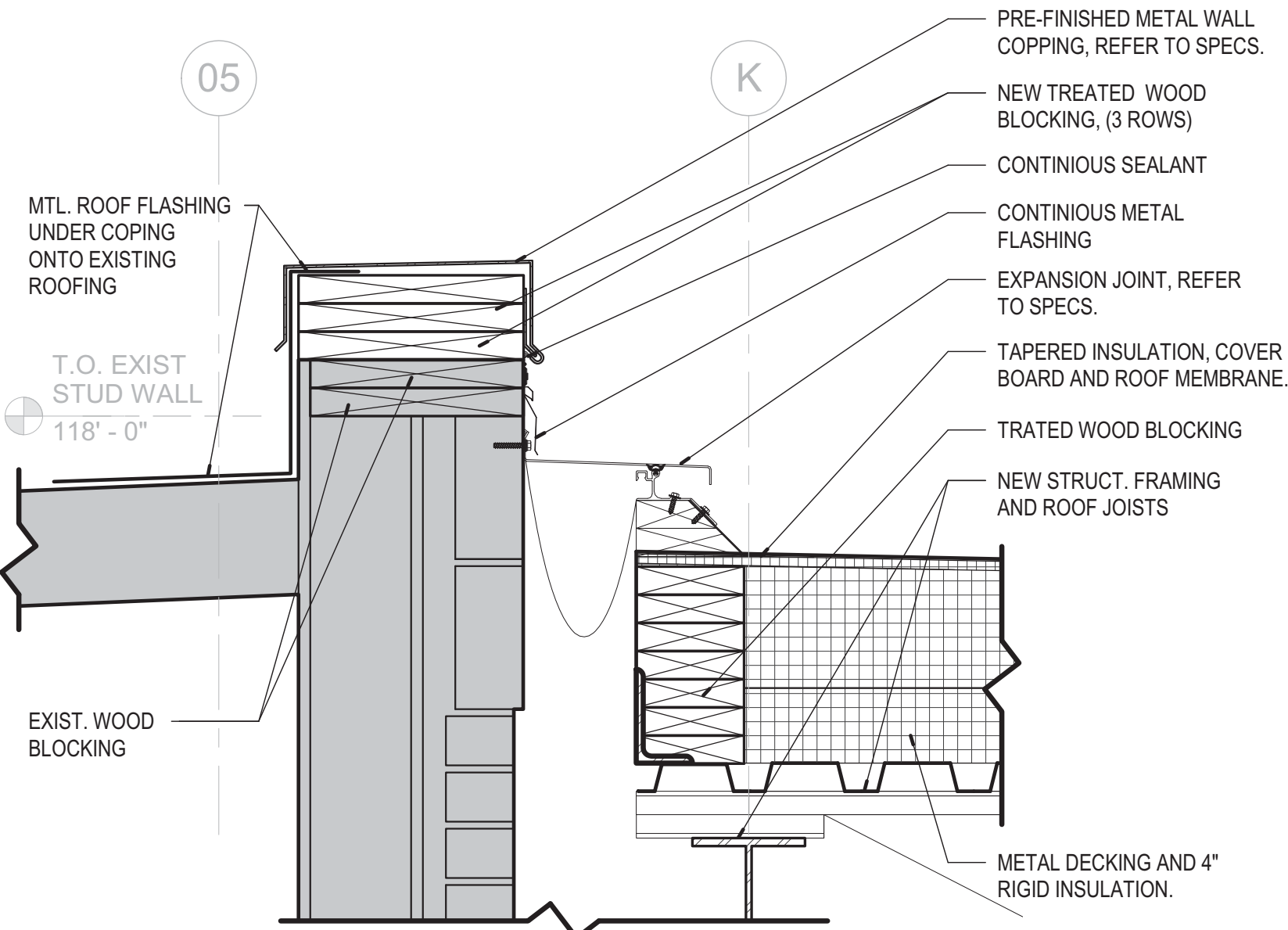
A-101



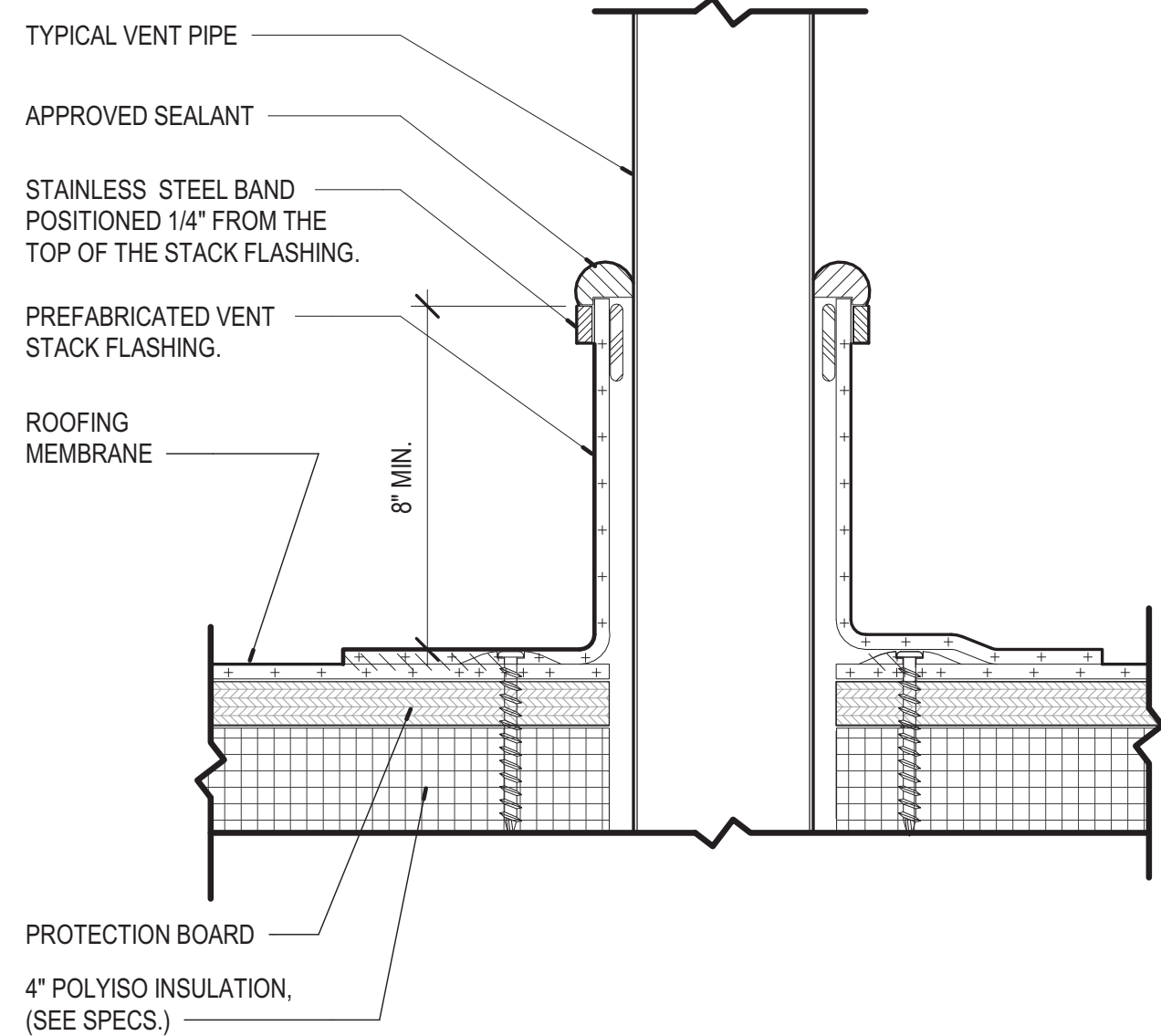
1 ROOF PLAN
1/8" = 1'-0"



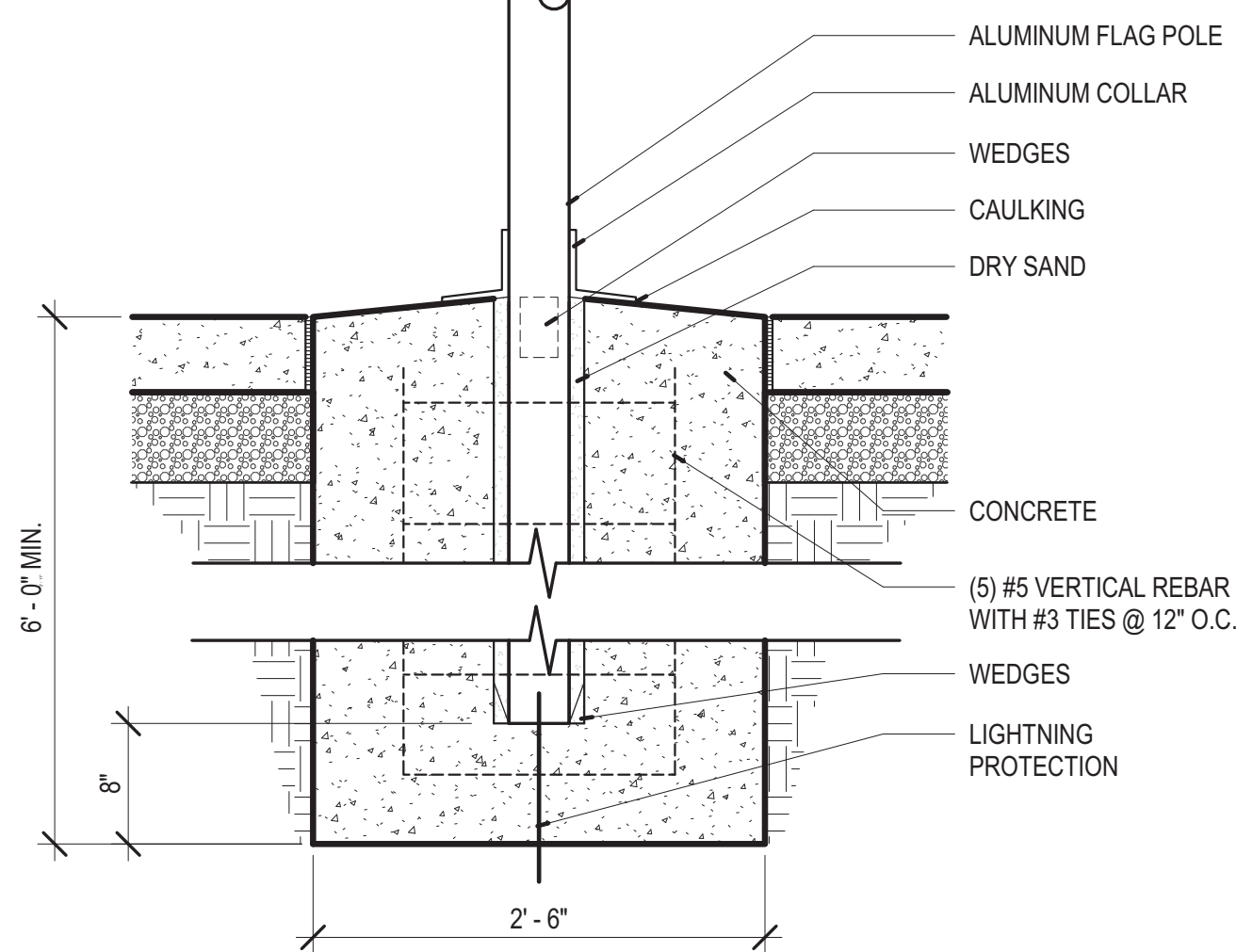
2 PATIO PLAN
1/8" = 1'-0"



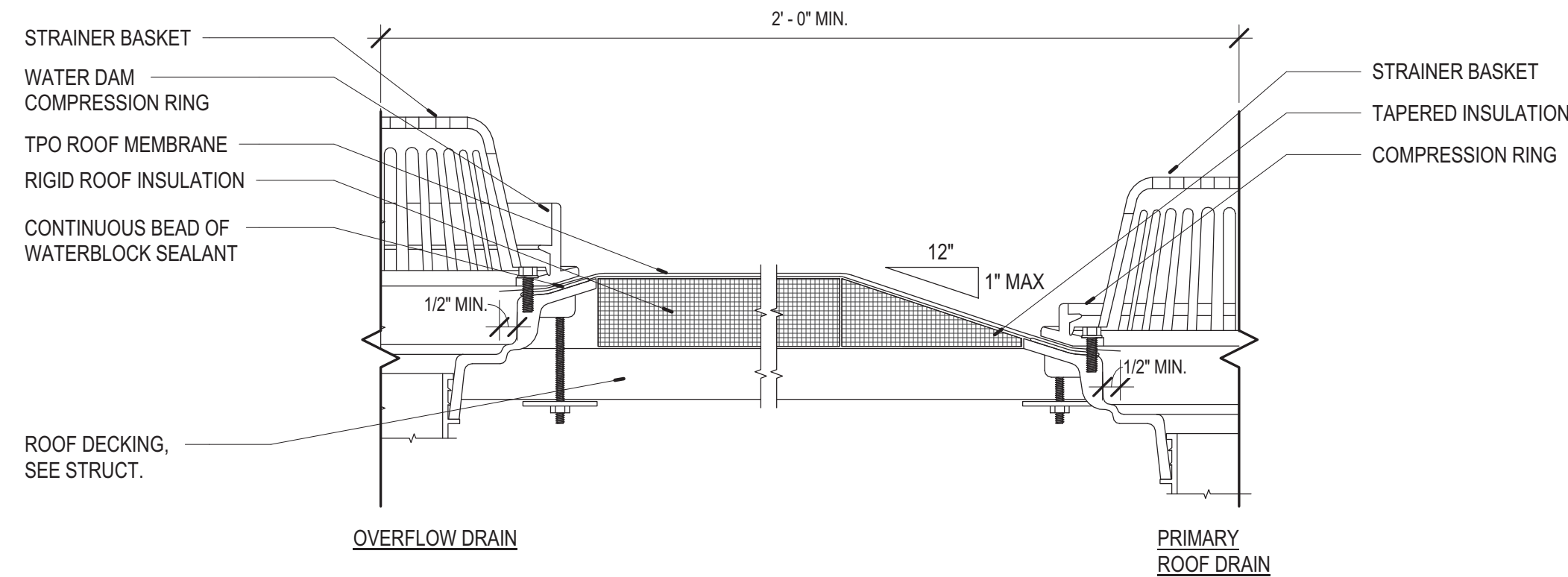
8 DETAIL - ROOF EXPAN. JOINT
1 1/2" = 1'-0"



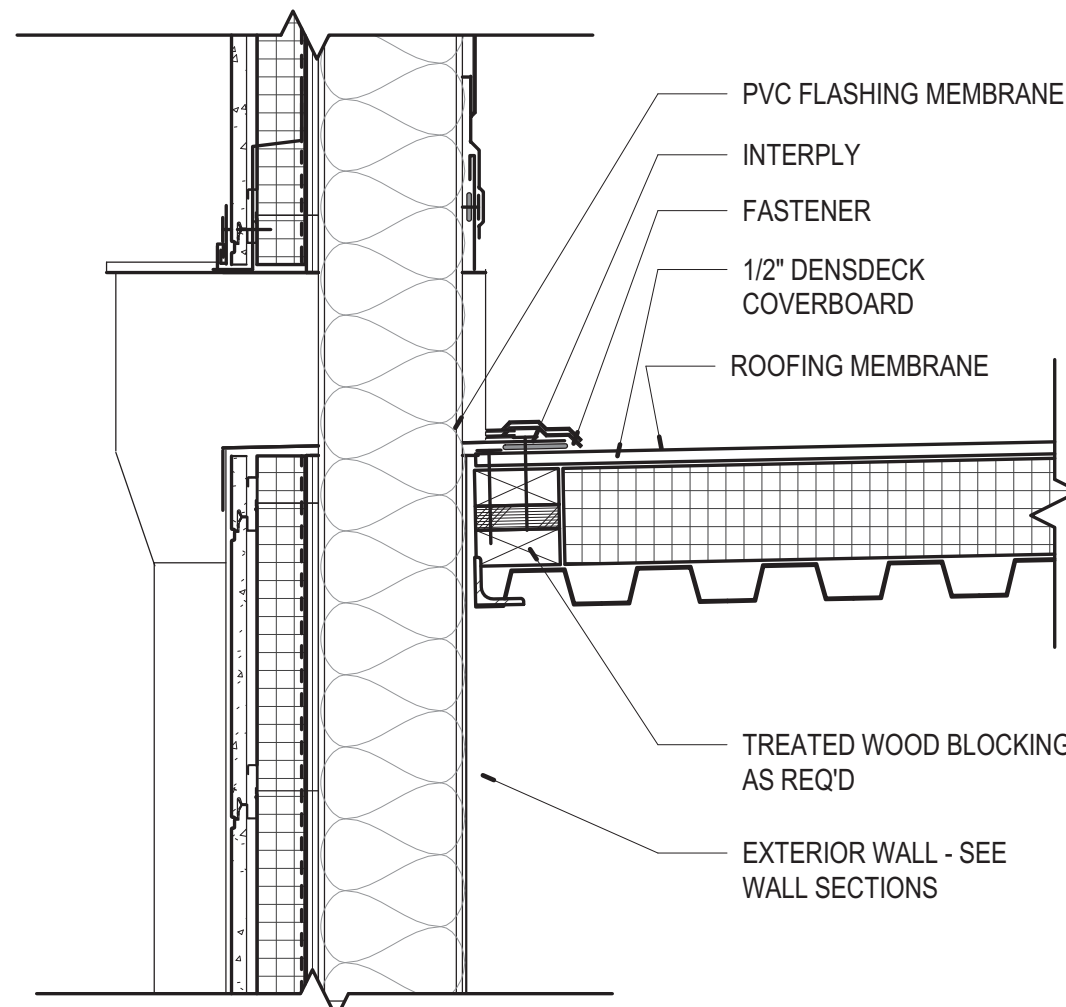
3 DETAIL - ROUND PENETRATION
1" = 1'-0"



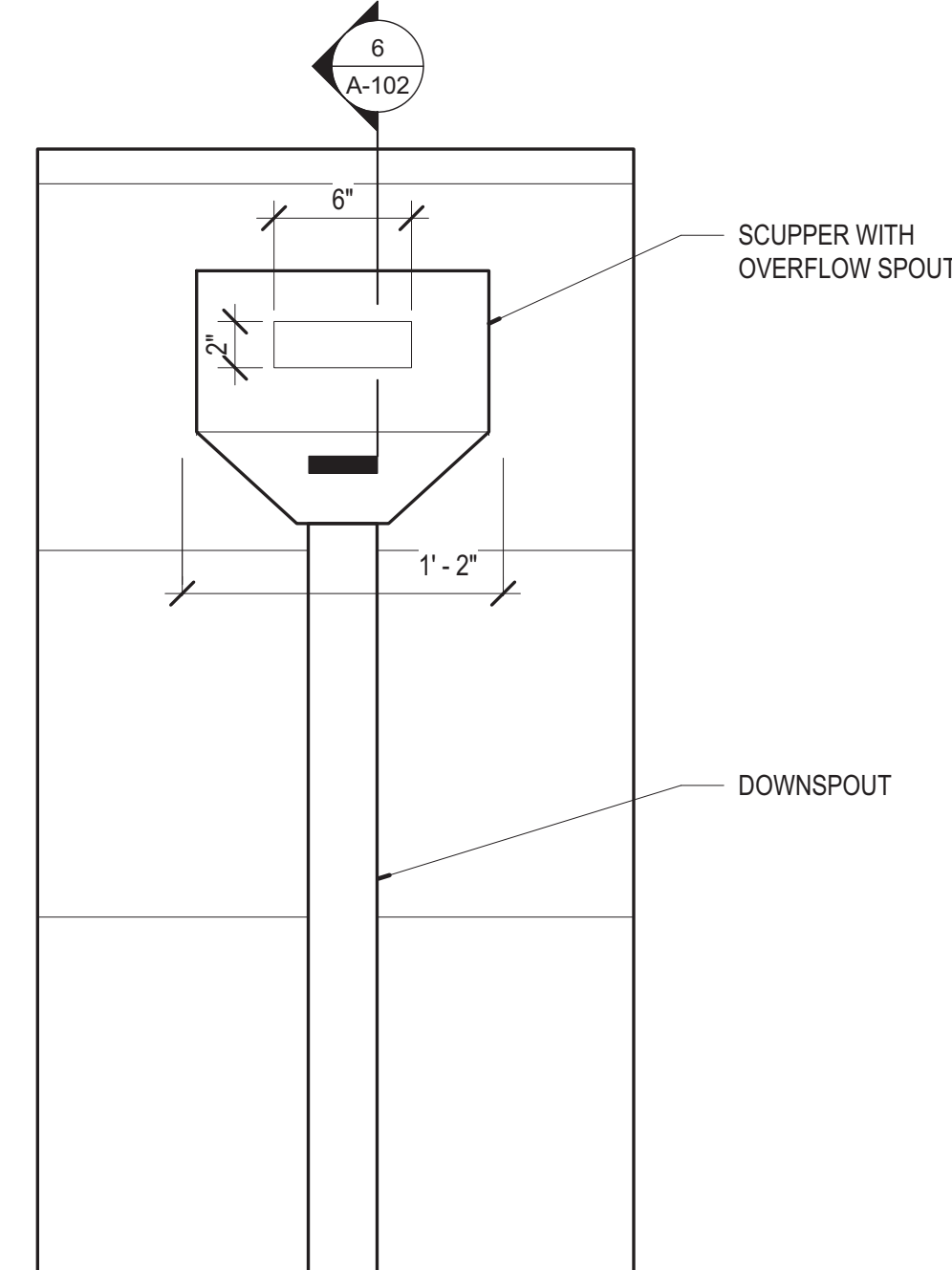
7 FLAG POLE DETAIL
1" = 1'-0"



4 DETAIL ROOF DRAIN - TYPICAL
3" = 1'-0"



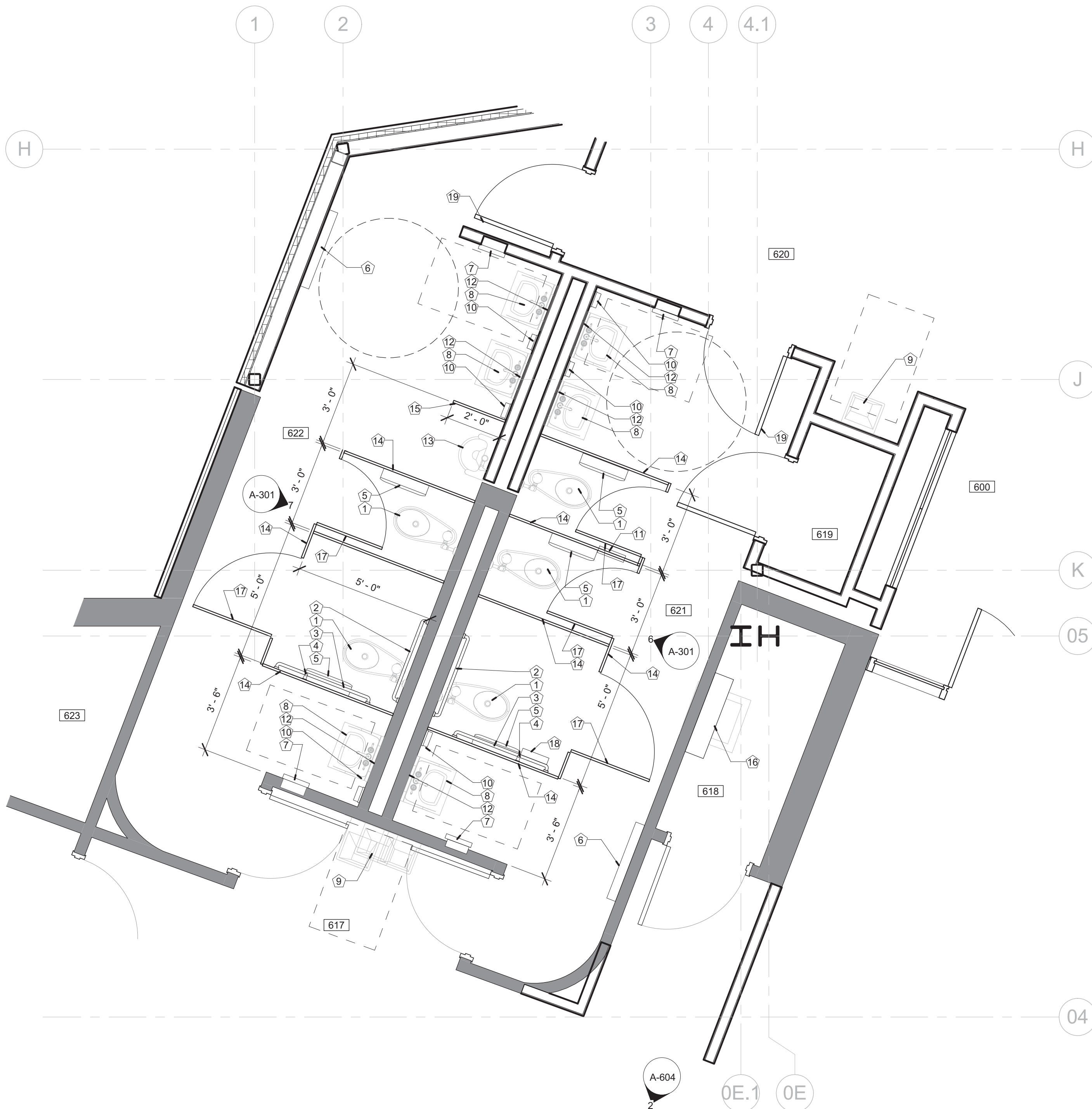
6 SCUPPER SECTION @ ROOF
1 1/2" = 1'-0"



5 SCUPPER ELEVATION
1 1/2" = 1'-0"

KEYED NOTES - ROOF	
KEYNOTE NUMBER	DESCRIPTION
01	ROOF MEMBRANE OVER COVER BOARD, TAPERED INSULATION, 4" RIGID INSULATION ON METAL DECKING, REFER TO SPECIFICATIONS.
02	ROOF CRICKET; ROOF MEMBRANE OVER COVER BOARD, TAPERED INSULATION, 4" RIGID INSULATION ON METAL DECKING, REFER TO SPECIFICATIONS.
03	PRIMARY ROOF DRAIN, REFER TO PLUMBING SPECIFICATIONS.
04	OVERFLOW ROOF DRAIN, REFER TO PLUMBING SPECIFICATIONS.
05	NEW ROOFTOP MECHANICAL UNIT, REFER TO MECH. DRAWINGS.
06	DRAIN LEADER TO TIE INTO UNDERGROUND PIPING, REFER TO CIVIL DRAWINGS FOR MORE INFO.
07	OVER FLOW ROOF DRAIN LEADER DOWN EXTERIOR WALL AND DAYLIGHT TO GRADE, SEE ELEVATIONS FOR LOCATIONS OF DRAIN NOZZLE.
08	WALL SCUPPER, COLLECTOR HEAD AND DOWN SPOUT, REFER TO ELEVATION AND DETAILS FOR MORE INFORMATION.
09	EXISTING WALL COPING TO REMAIN, REFER TO DETAIL.
10	NEW PRELISHED WALL COPING, REFER TO DETAILS AND SPECIFICATIONS.
11	EXISTING METAL ROOFING TO REMAIN.
12	6" WIDE EXPANSION JOINT, REFER TO SECTION DETAIL AND SPECIFICATIONS.
13	ADDED BLOCKING, NEW COPING AND ROOFING FLASHING THIS AREA TO MATCH EXISTING, SEE DETAILS.
14	NEW COPING TO STEP DOWN AND TIE INTO EXISTING COPING.

No.	Date	Description
	06/13/17	ISSUED FOR RE-BID

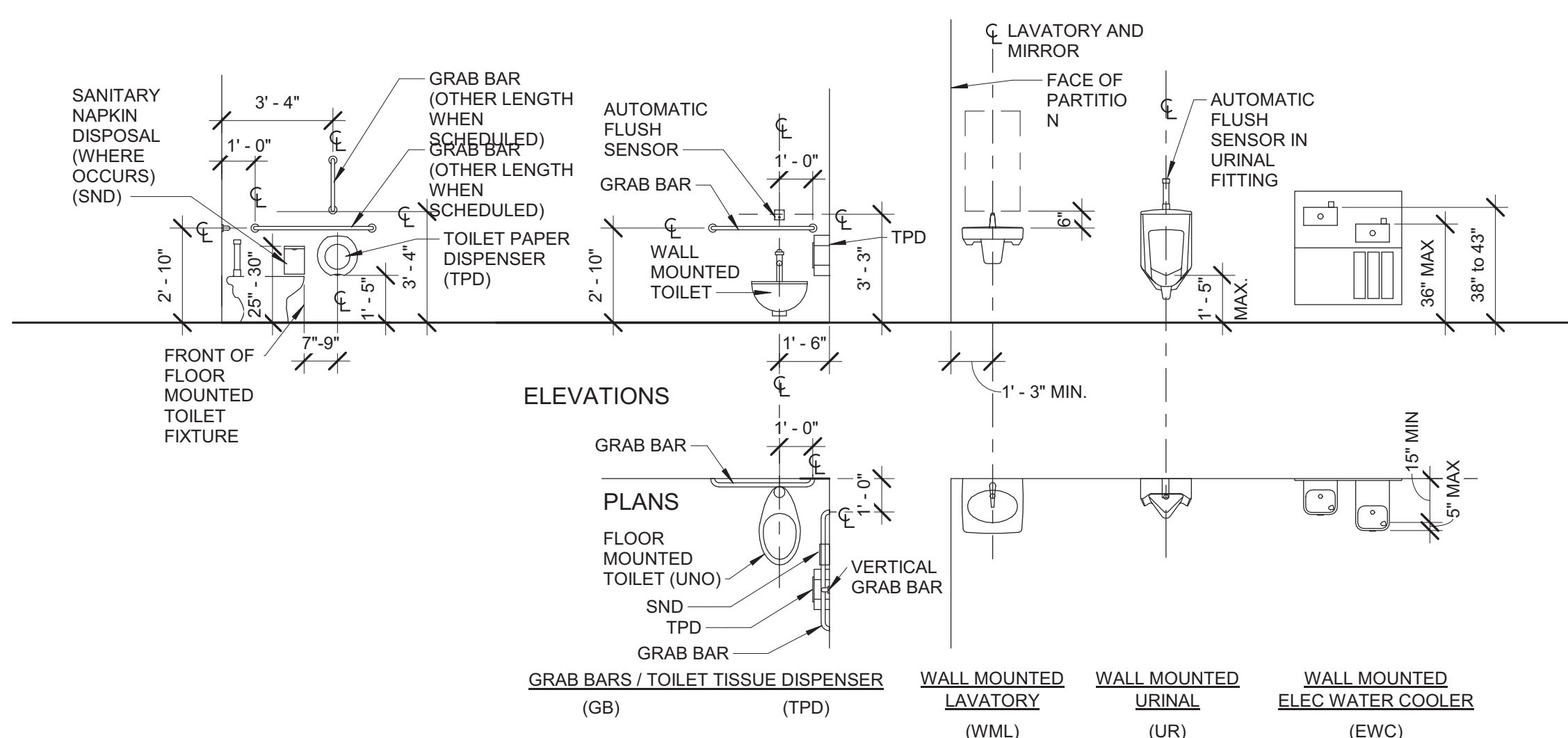


5 ENLARGED RESTROOM PLANS
A-301 3/8" = 1'-0"

PLUMBING FIXTURES AND ACCESSORIES LEGEND:

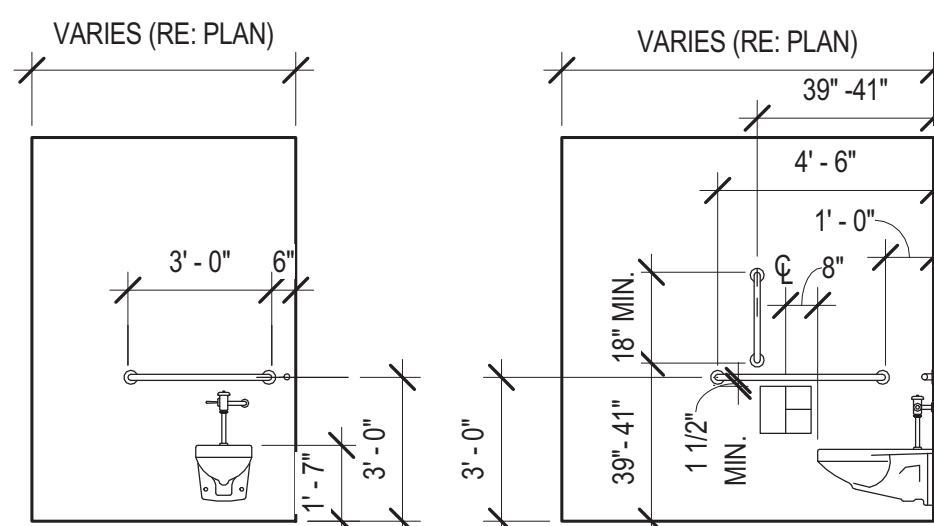
ALL FIXTURES, ACCESSORIES, AND INSTALLATIONS TO BE ACCESSIBLE AND IN FULL COMPLIANCE WITH ICC/ANSI 117.1. NUMBERS IN BRACKETS REFER TO ICC/ANSI 117.1 SECTION.

- | | | |
|--|--|---|
| 1 FLOOR-MOUNTED TOILET: SEE PLUMBING SPECS. | 7 RECESSED AUTOMATIC HAND DRYER: BOBRICK #B-3725, TRIMLINE SERIES, SEMI-RECESSED, SATIN FINISH STAINLESS STEEL - PROVIDE NECESSARY BLOCKING IN WALL FOR MOUNTING | 14 TOILET PARTITION: SEE SPECIFICATIONS |
| 2 GRAB BAR: BOBRICK #B-5806 X 36 HORIZONTAL GRAB BAR WITH CONCEALED MOUNTING, SATIN FINISH STAINLESS STEEL - PROVIDE NECESSARY BLOCKING IN WALL FOR MOUNTING | 8 WALL-MOUNTED LAVATORY: SEE PLUMBING SPECS. | 15 URINAL SCREEN: SEE SPECIFICATIONS |
| 3 GRAB BAR: BOBRICK #B-5806 X 42 HORIZONTAL GRAB BAR WITH CONCEALED MOUNTING, SATIN FINISH STAINLESS STEEL | 9 DRINKING FOUNTAIN: SINGLE ADA COMPLIANT, SEE PLUMBING SPECS. | 16 UTILITY SHELF W/BROOM HOLDER: BOBRICK #B-224 UTILITY SHELF WITH MOP/BROOM HOLDERS AND RAG HOOKS |
| 4 GRAB BAR: 18" GRAB BAR BOBRICK MODEL #B6086 VERTICAL GRAB BAR WITH CONCEALED MOUNTING, SATIN FINISH STAINLESS STEEL | 10 SOAP DISPENSER: BOBRICK #B-2111 CLASSIC SERIES SURFACE-MOUNTED, SATIN-FINISH STAINLESS STEEL - PROVIDE NECESSARY BLOCKING IN WALL FOR MOUNTING | 17 COAT HOOKS: BOBRICK #B-2116 HEAVY-DUTY CLOTHES HOOK WITH CONCEALED MOUNTING. |
| 5 TOILET TISSUE DISPENSER: BOBRICK #B-2888 CLASSIC SERIES MULTI-ROLL TOILET TISSUE DISPENSER, SURFACE-MOUNTED | 11 SANITARY DISPOSAL: BOBRICK #B-354 CLASSIC SERIES PARTITION-MOUNTED DUAL SIDED, SATIN FINISH STAINLESS STEEL (WOMEN'S RESTROOMS ONLY) | 18 SANITARY DISPOSAL: BOBRICK #B-353 CLASSIC SERIES PARTITION-MOUNTED SINGLE SIDED, SATIN FINISH STAINLESS STEEL (WOMEN'S RESTROOMS ONLY) |
| 6 CHANGING STATION: KOALA KARE PRODUCTS #KB-200, SURFACE-MOUNTED SERIES - PROVIDE NECESSARY BLOCKING IN WALL FOR MOUNTING | 12 MIRROR: BOBRICK #B-165-2448, SERIES CHANNEL-FRAMED MIRROR 24"x48" | 19 FOOT DOOR PULL: SEE SPECIFICATIONS |
| | 13 WALL-MOUNTED URINAL: SEE PLUMBING SPECS. | |



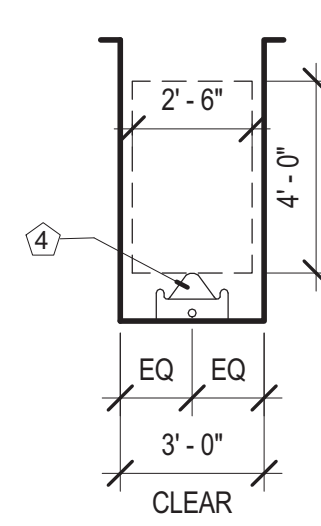
TOILET FIXTURE AND ACCESSORY MOUNTING LOCATIONS
DIMENSIONS SHOWN APPLY TO SPECIFIC MODELS ONLY. ADJUST DIMENSIONS AS REQUIRED FOR OTHER MODELS AND/OR MANUFACTURERS.

1 MOUNTING LOCATIONS - PLUMBING FIXTURES
A-301 1/4" = 1'-0"

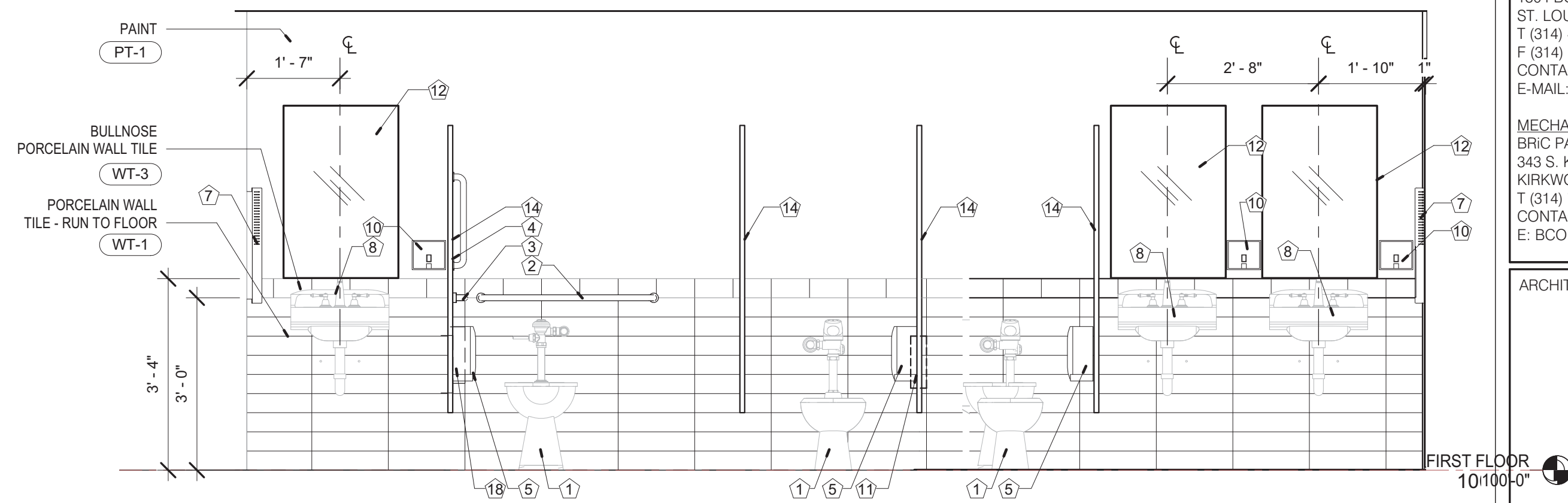


2 MOUNTING LOCATIONS - PLUMBING FIXTURES - ADA WC
A-301 1/4" = 1'-0"

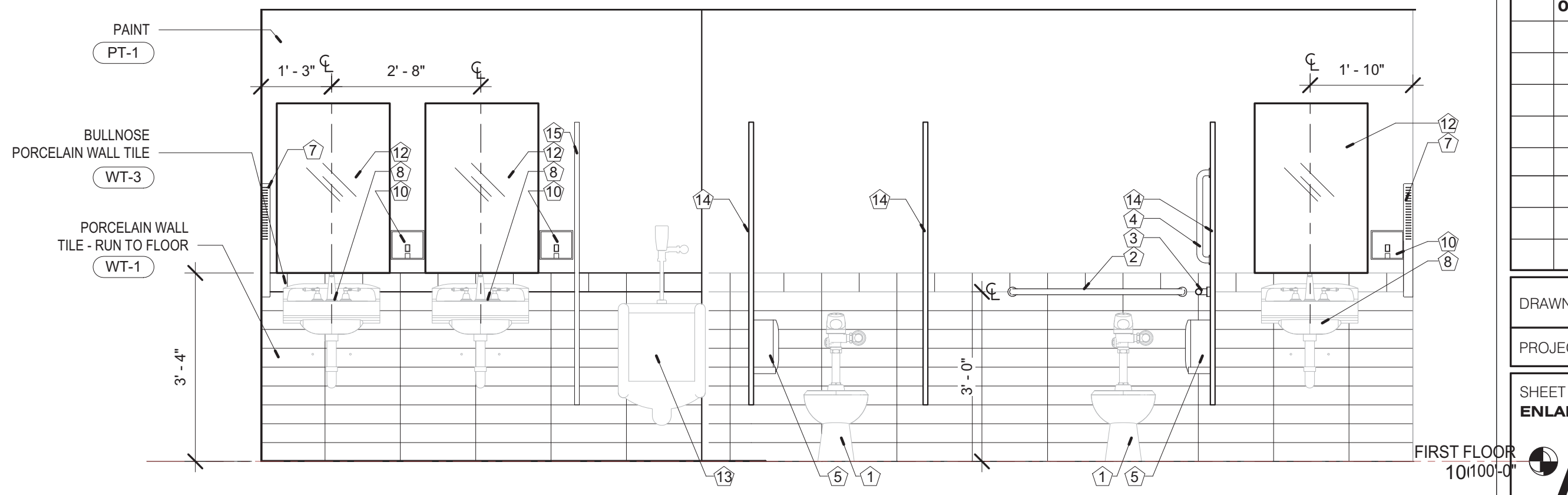
- NOTES:
1. ALL FIXTURES TO COMPLY WITH AND BE INSTALLED IN COMPLIANCE WITH ALL APPLICABLE A.D.A., ANSI, AND BUILDING CODE REQUIREMENTS. PROVIDE BLOCKING FOR LAVATORY AND GRAB BARS. ALL DIMENSIONS SHOWN ARE MINIMUM U.N.O. DASHED LINES INDICATE REQUIRED CLEARANCES.
 - 2.
 - 3.
 - 4.



3 ENLARGED TYP. RESTROOM PLANS
A-301 1/4" = 1'-0"

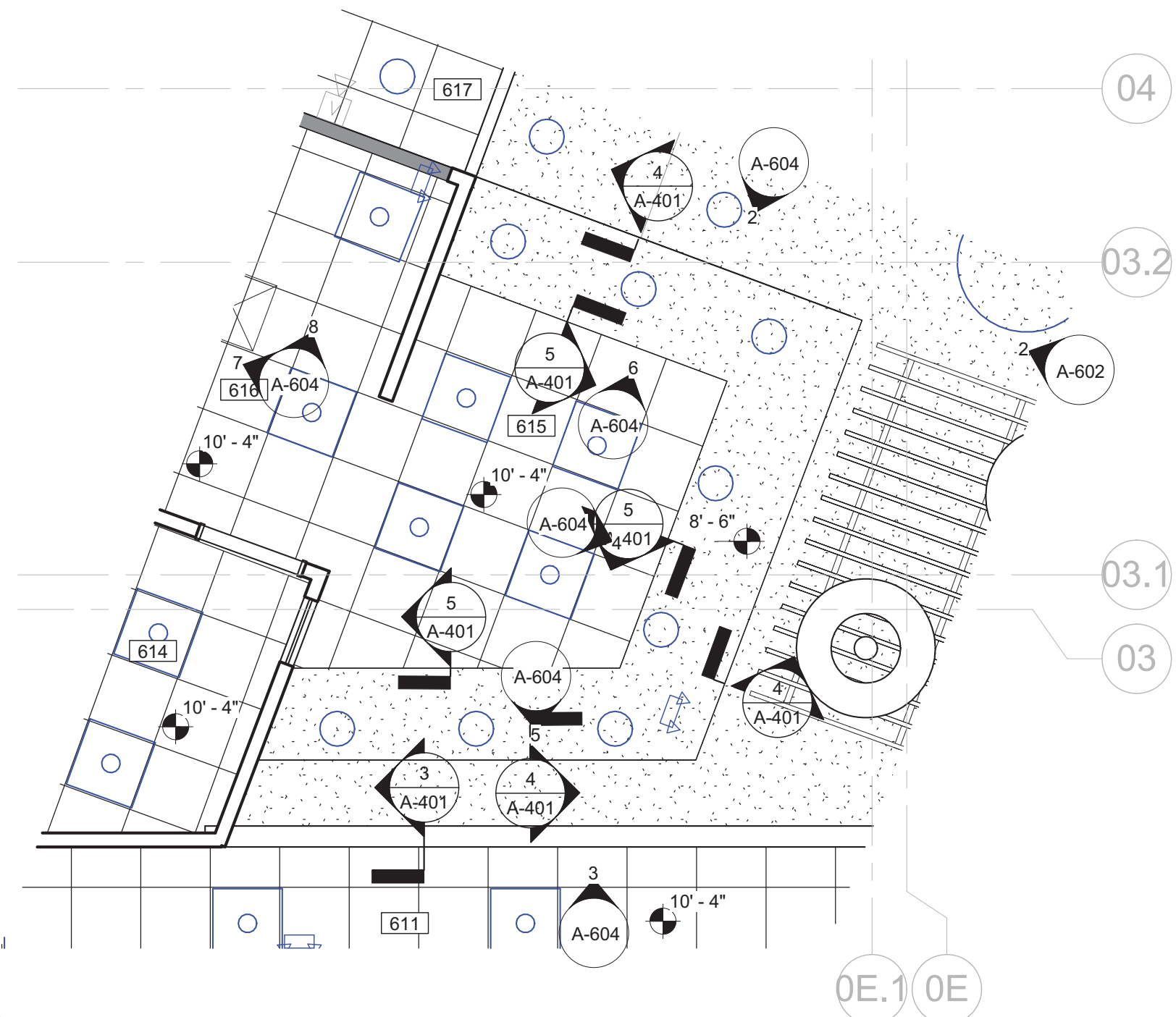


6 ELEVATION @ WOMENS RESTROOM
A-301 1/2" = 1'-0"

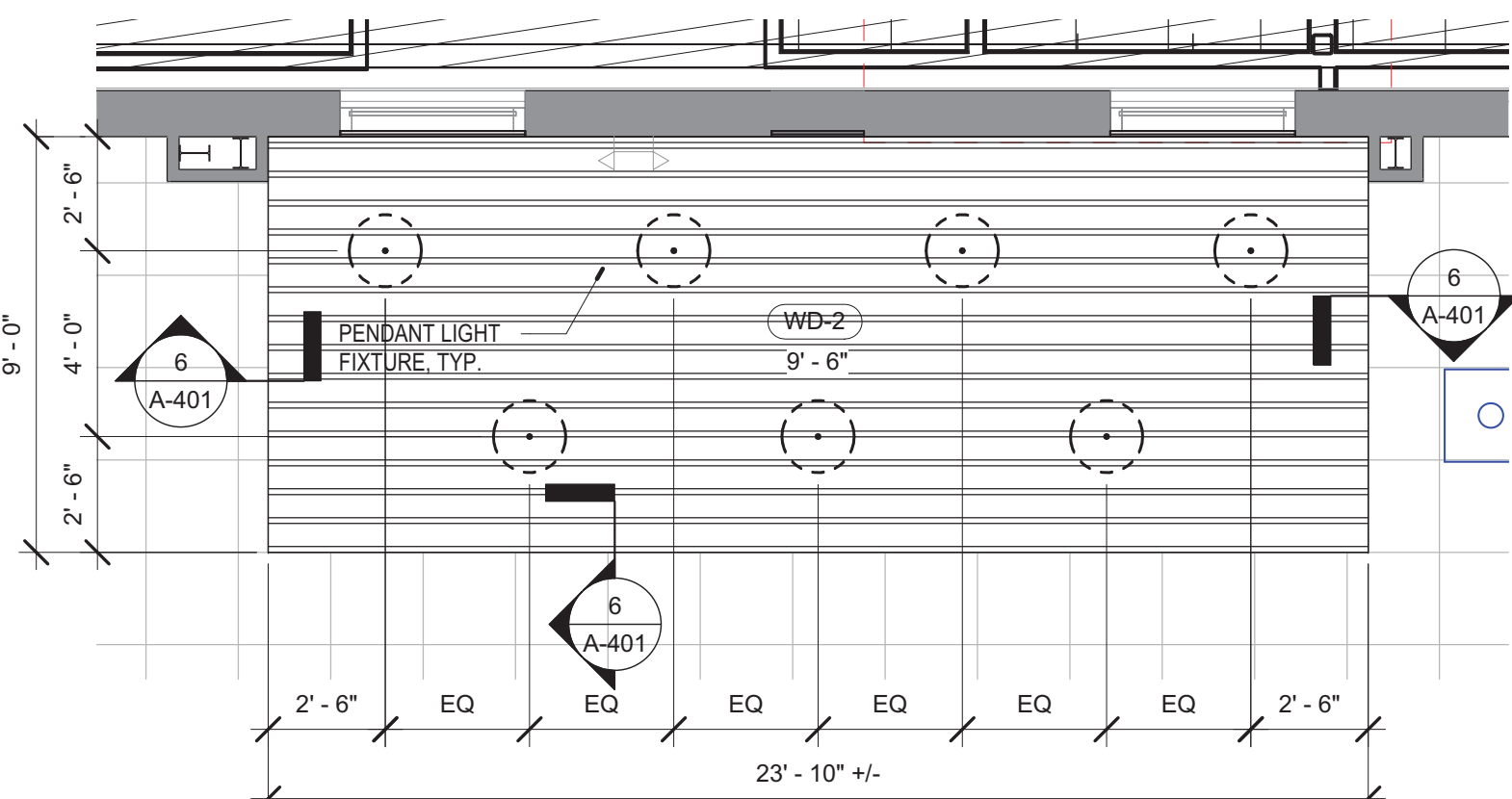


7 ELEVATION @ MENS RESTROOM
A-301 1/2" = 1'-0"

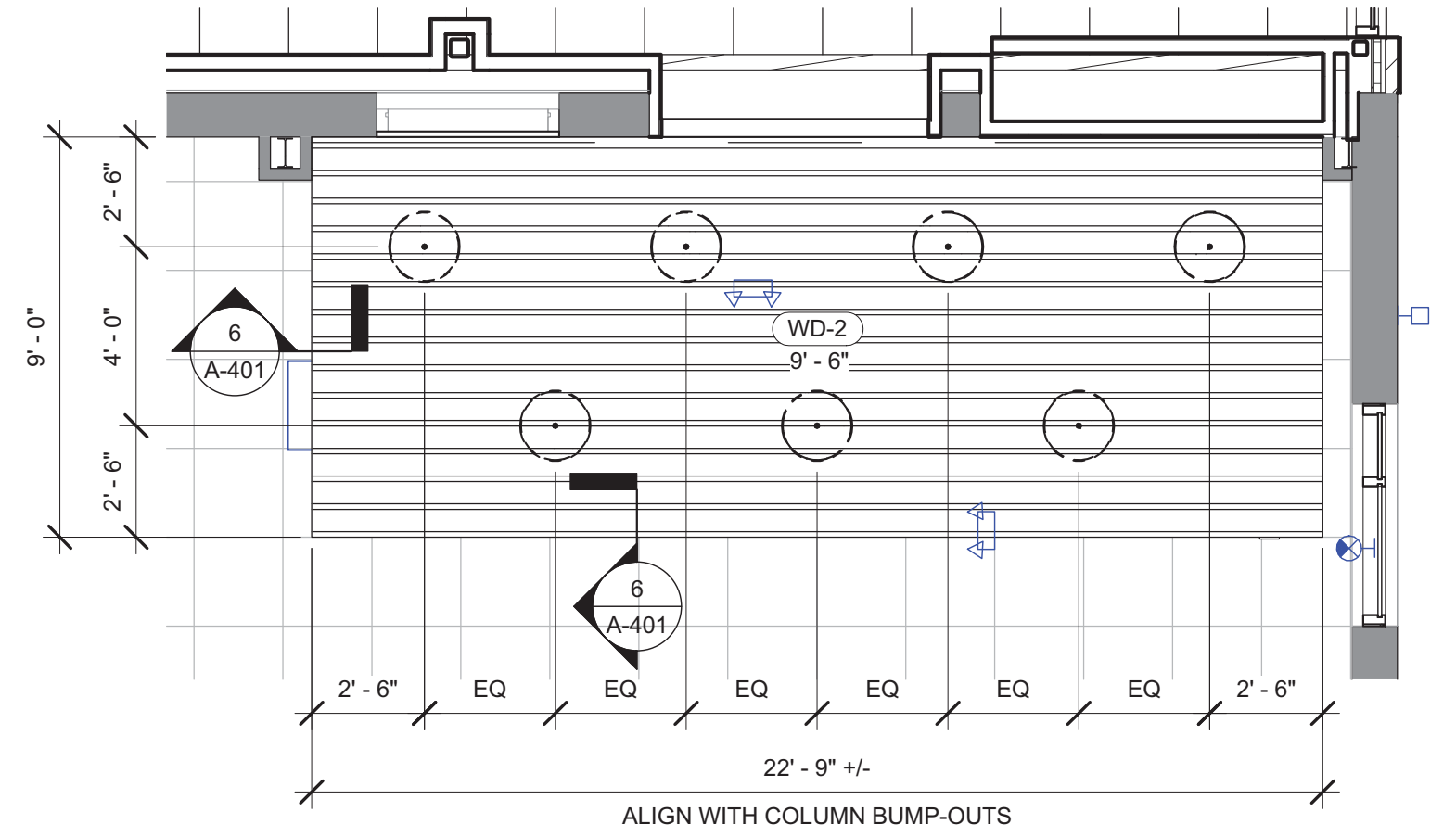
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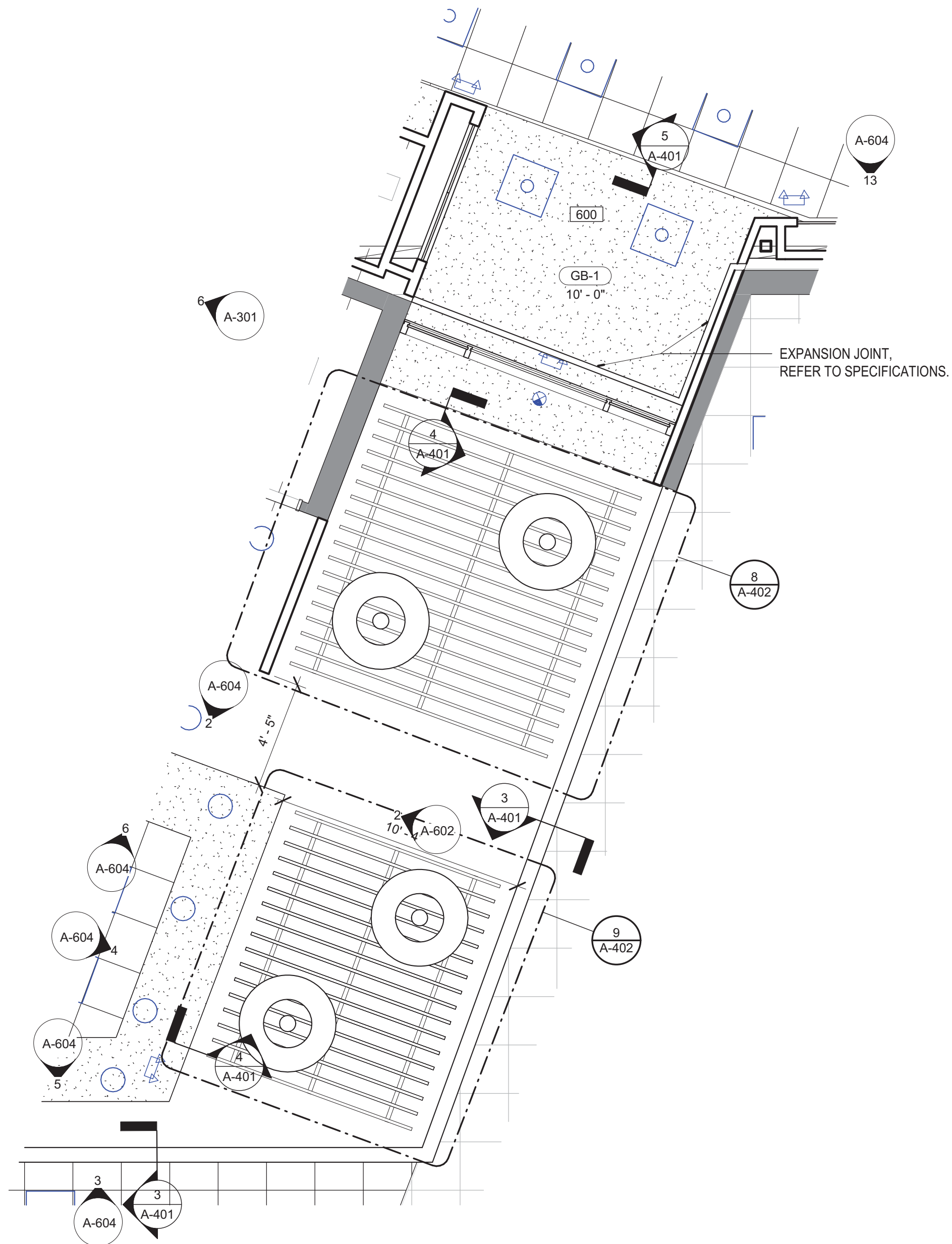
1 ENLARGED CEILING PLAN @ CIRCULATION DESK
A-402 1/4" = 1'-0"



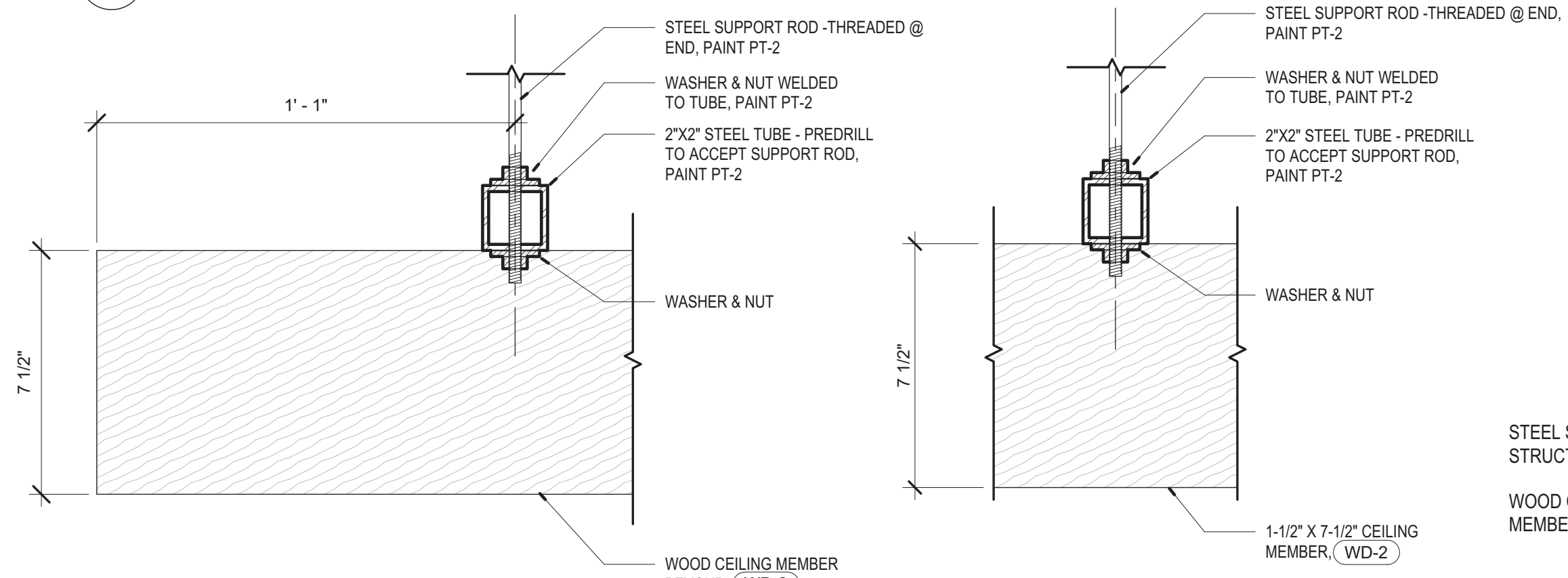
6 ENLARGED CEILING PLAN @ TEENS AREA
A-402 1/4" = 1'-0"



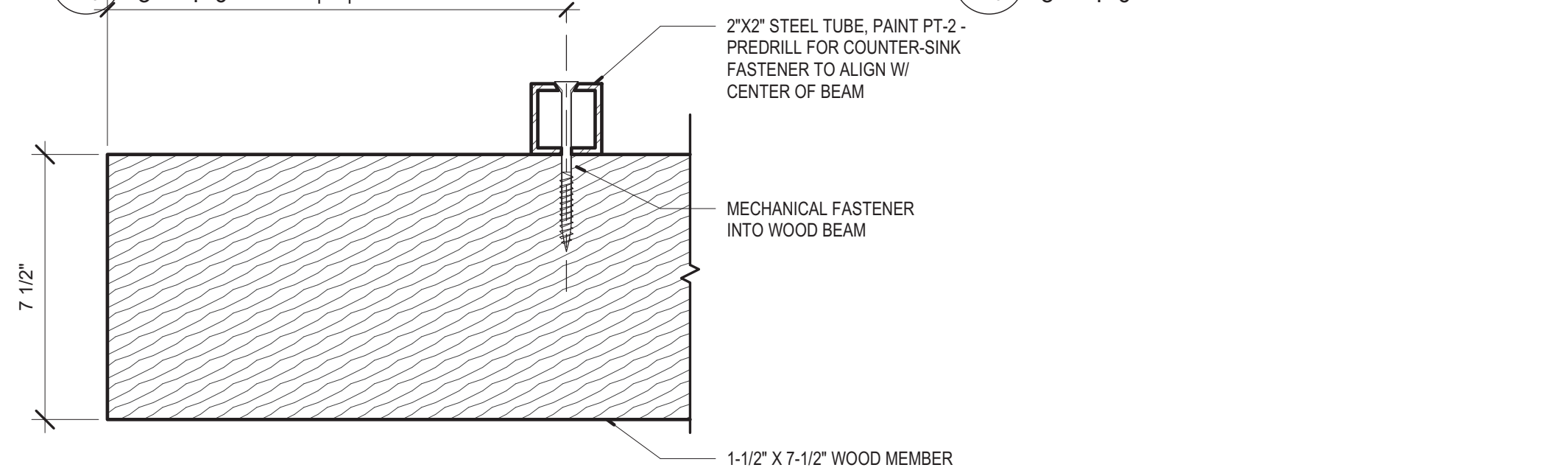
7 ENLARGED CEILING PLAN @ CHILDREN'S AREA
A-402 1/4" = 1'-0"



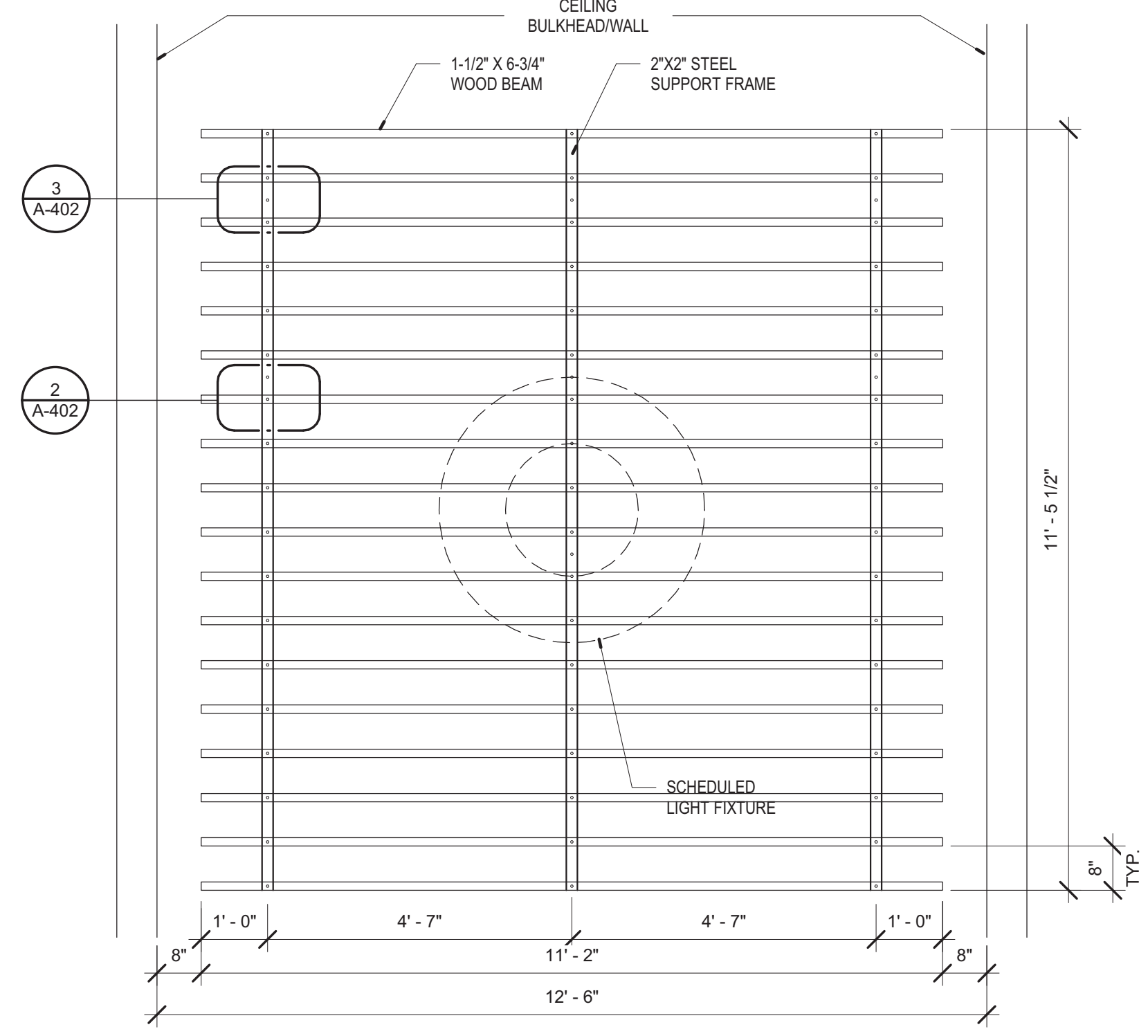
5 RCP - ENTRY LOBBY
A-402 1/4" = 1'-0"



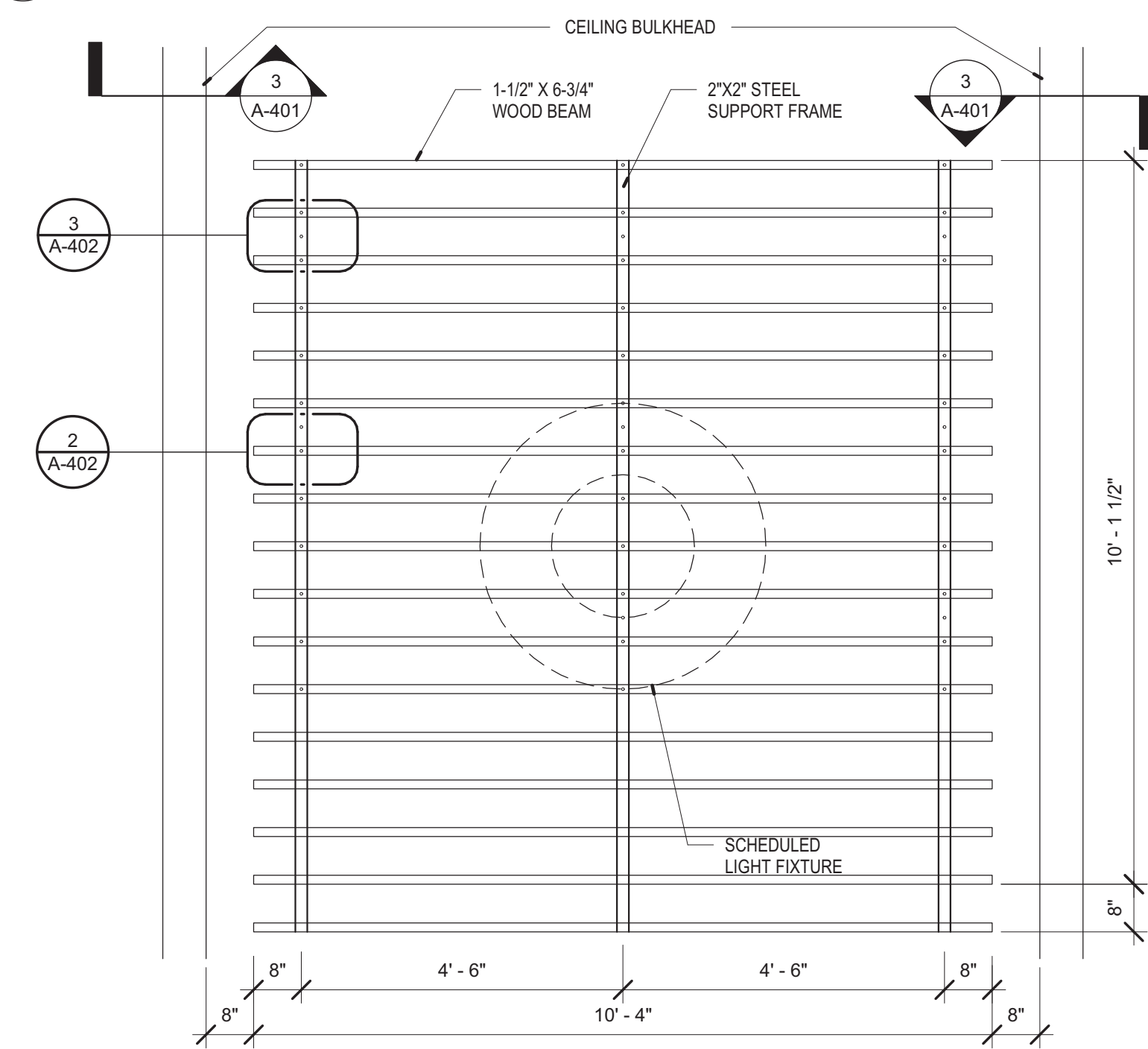
3 DETAIL - DECORATIVE WOOD BEAM
A-402 3" = 1'-0"



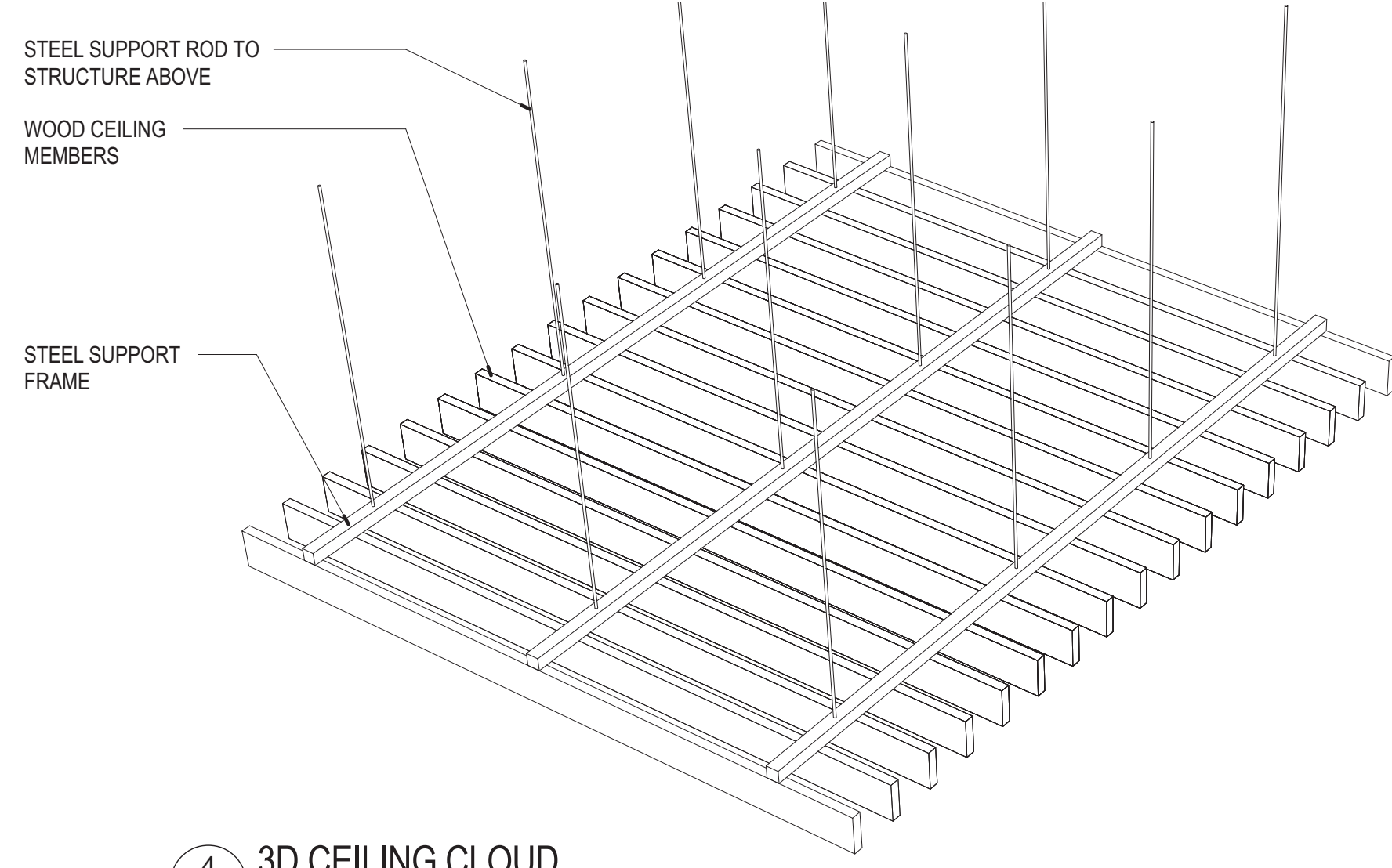
2 DETAIL - DECORATIVE WOOD BEAM
A-402 3" = 1'-0"



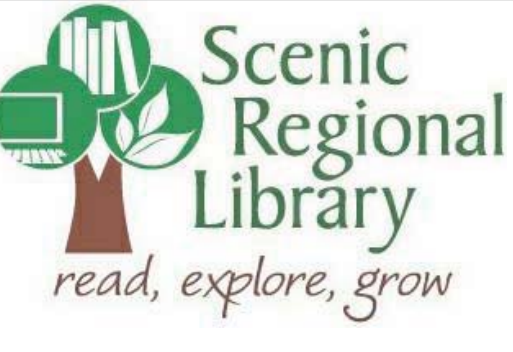
8 ENLARGED CEILING PLAN @ DECORATIVE CLOUD
A-402 1/2" = 1'-0"



9 ENLARGED CEILING PLAN @ DECORATIVE CLOUD
A-402 1/2" = 1'-0"



4 3D CEILING CLOUD
A-402



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MO ARCHITECTURAL LICENSE A2010039554
MO CERTIFICATE OF AUTHORITY A2014008380

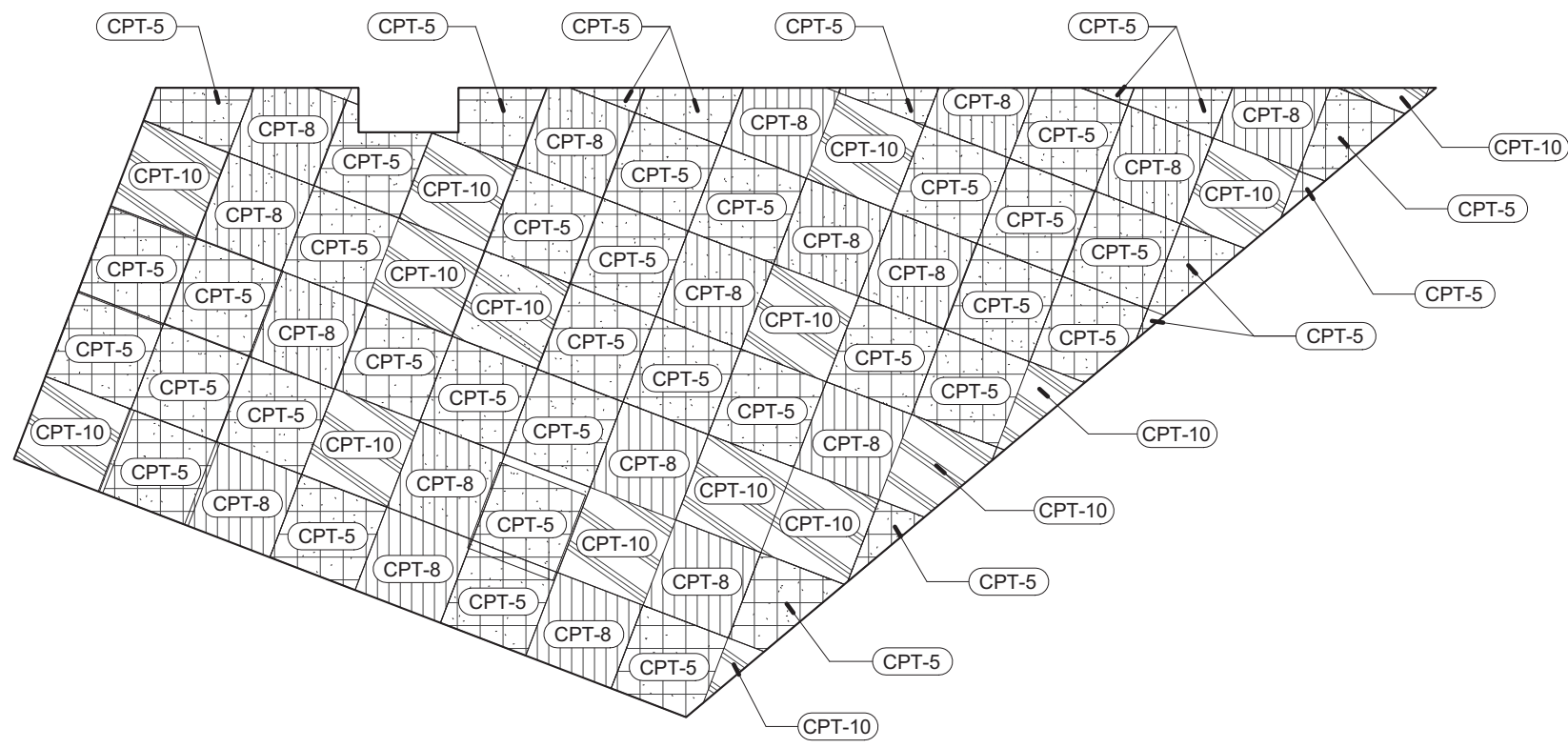
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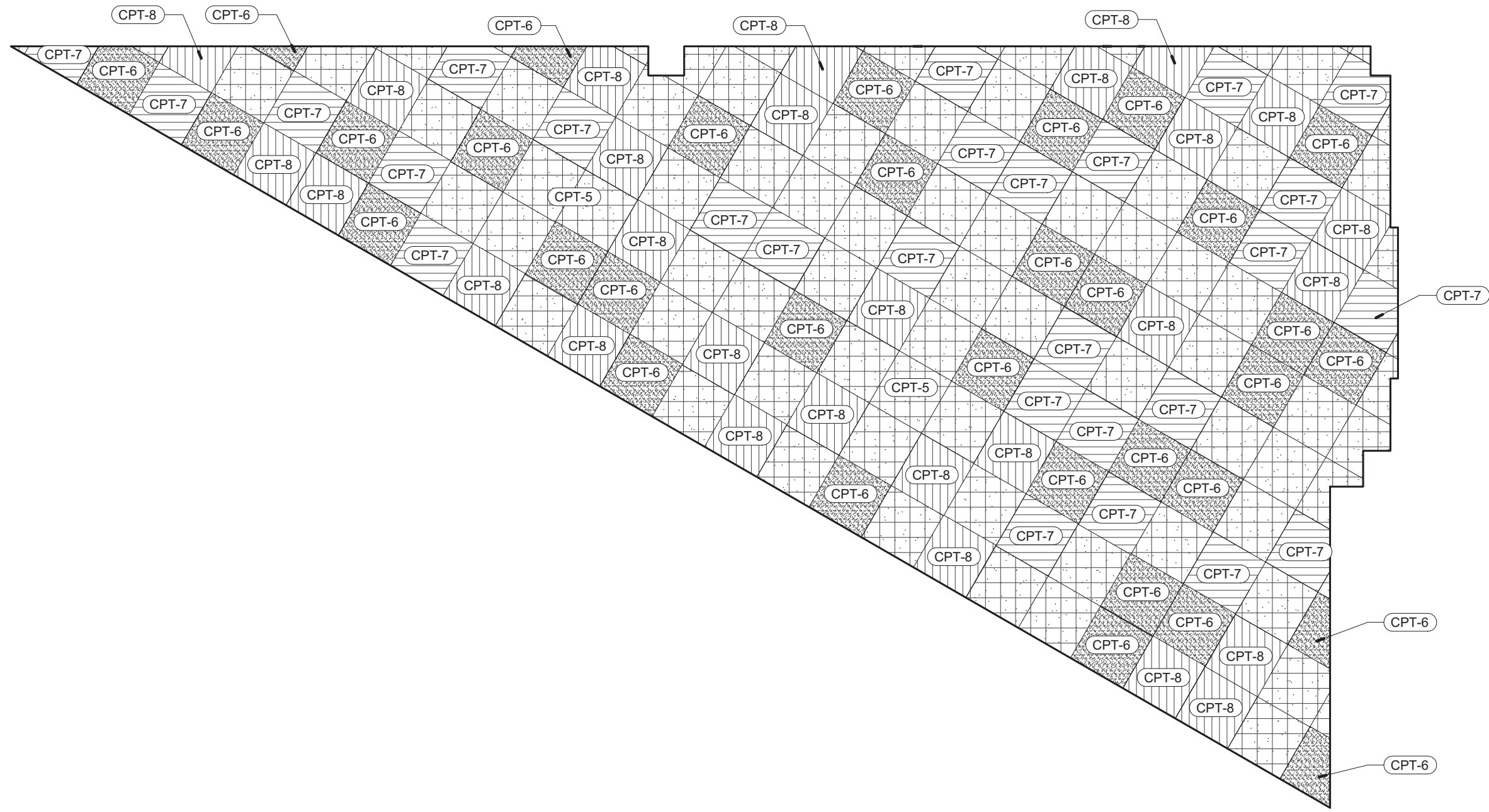
PROJECT NUMBER: 16-1161.06

SHEET TITLE:
ENLARGED CEILING PLANS,
CEILING DETAILS

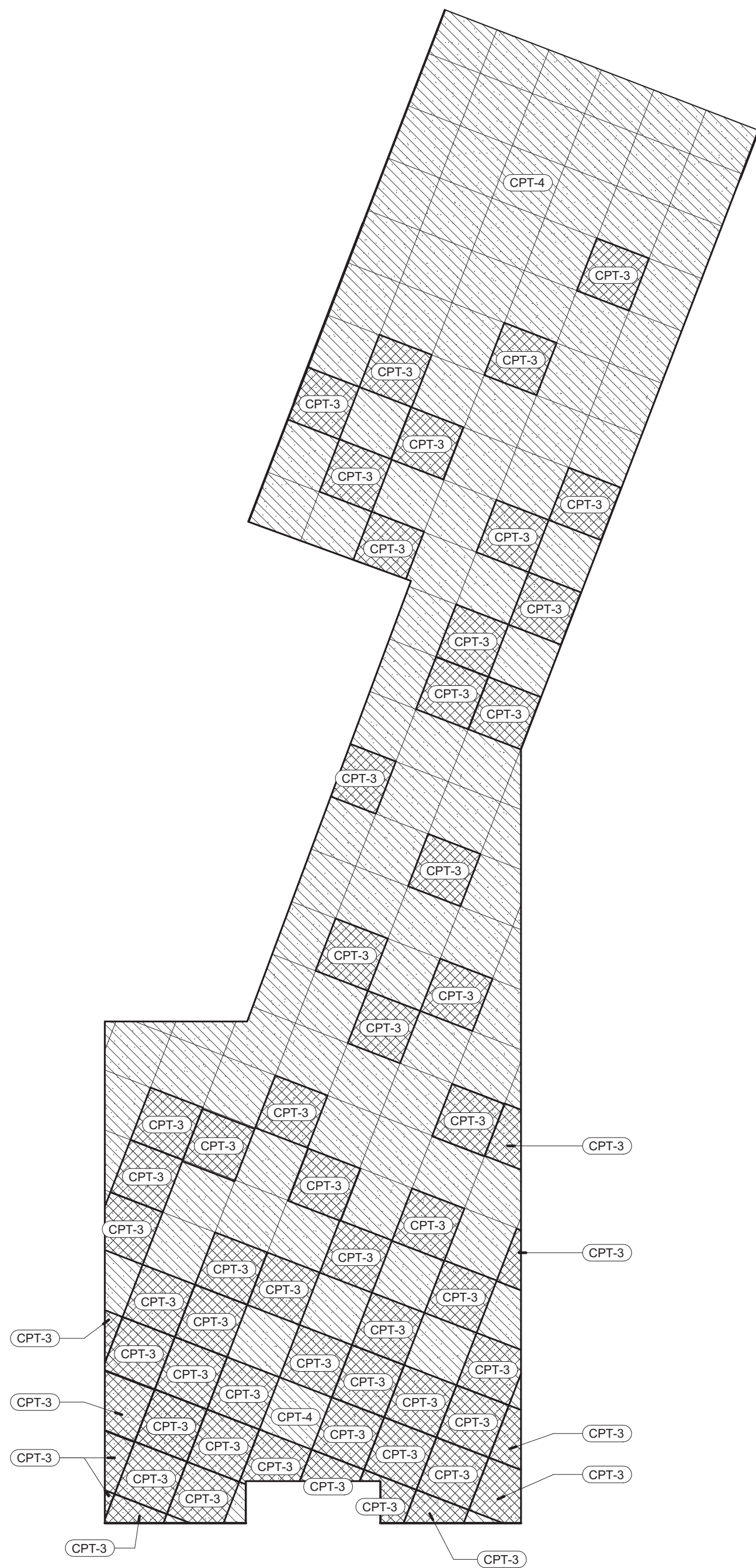
A-402



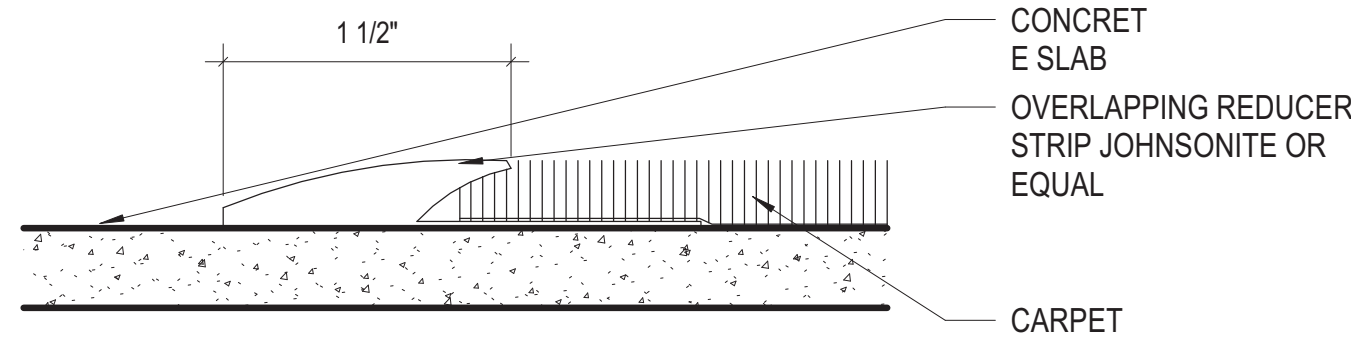
1 EP - TEEN CARPET PLAN
A-502 1/4" = 1'-0"



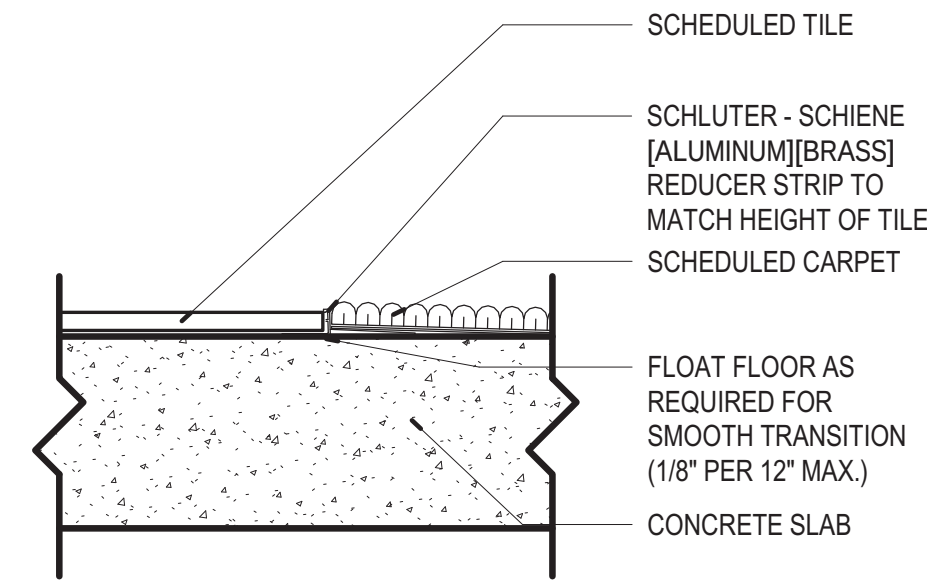
2 EP - CHILDREN'S CARPET PLAN
A-502 1/4" = 1'-0"



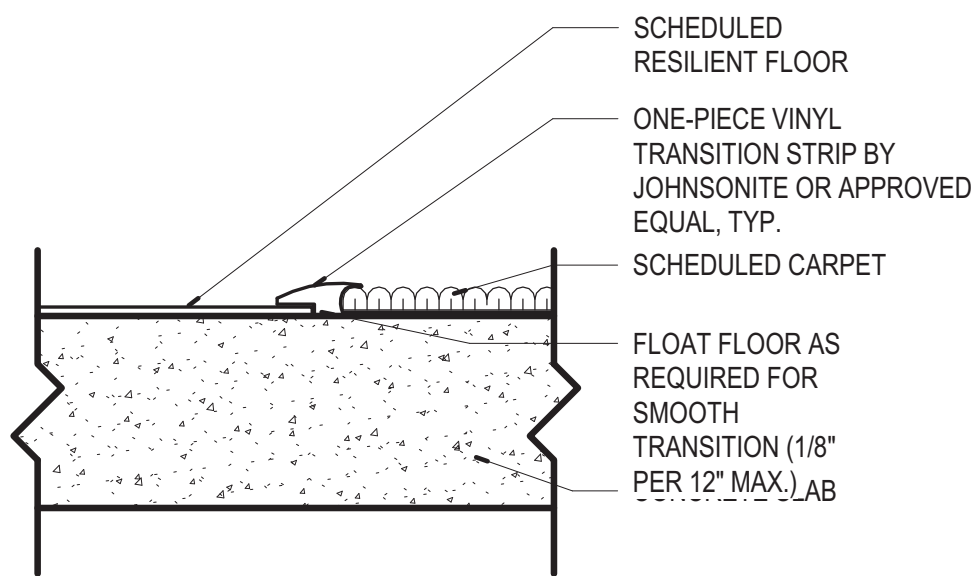
3 EP - MAIN/ADULTS CARPET PLAN
A-502 1/4" = 1'-0"



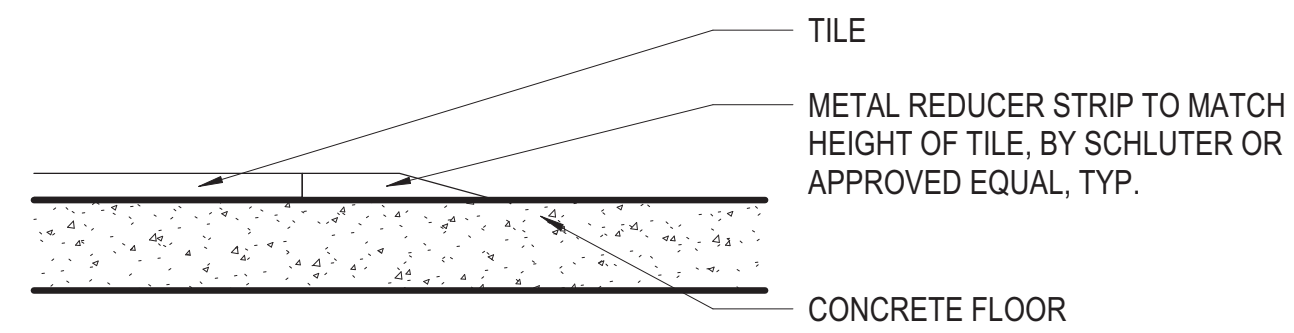
4 TRANSITION - CONC. TO CPT
A-502 12" = 1'-0"



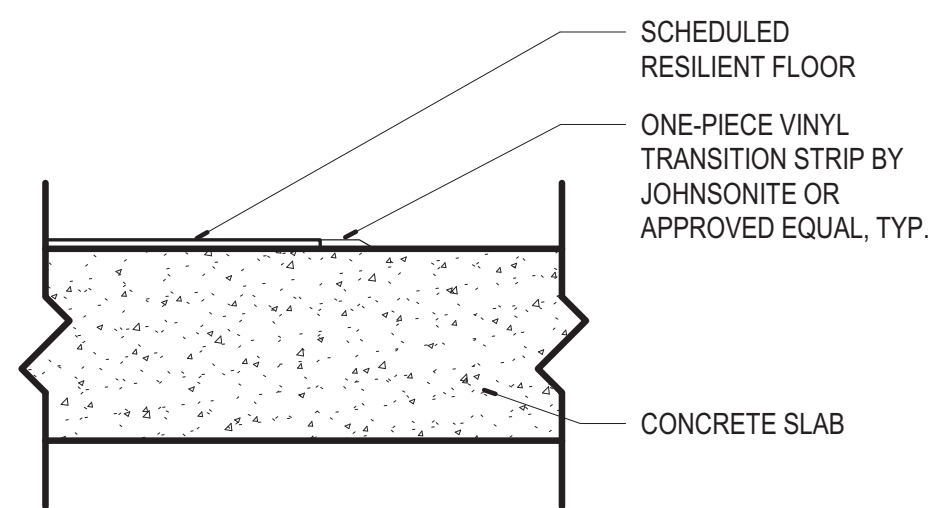
7 TRANSITION - TILE TO CARPET
A-502 3" = 1'-0"



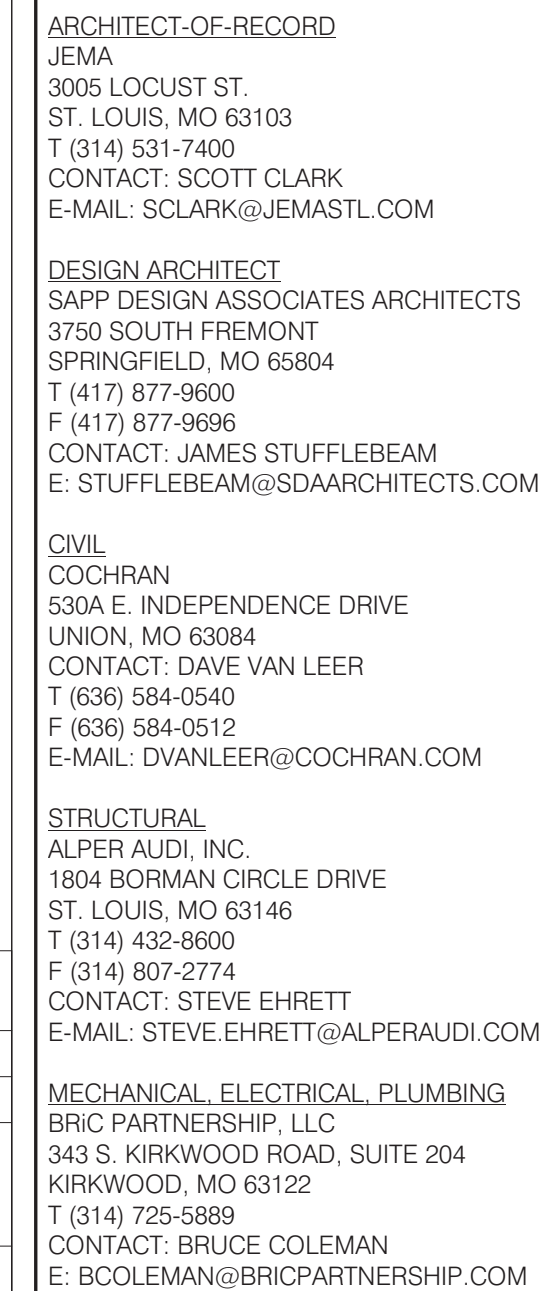
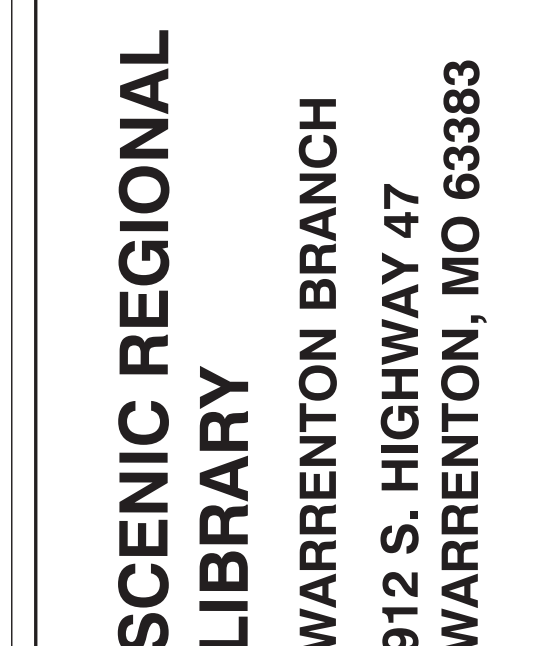
5 TRANSITION - RESILIENT FLOOR TO CARPET
A-502 3" = 1'-0"



8 TRANSITION - TILE TO CONC.
A-502 12" = 1'-0"



6 TRANSITION - RESILIENT FLOOR TO CONC.
A-502 3" = 1'-0"



A-601

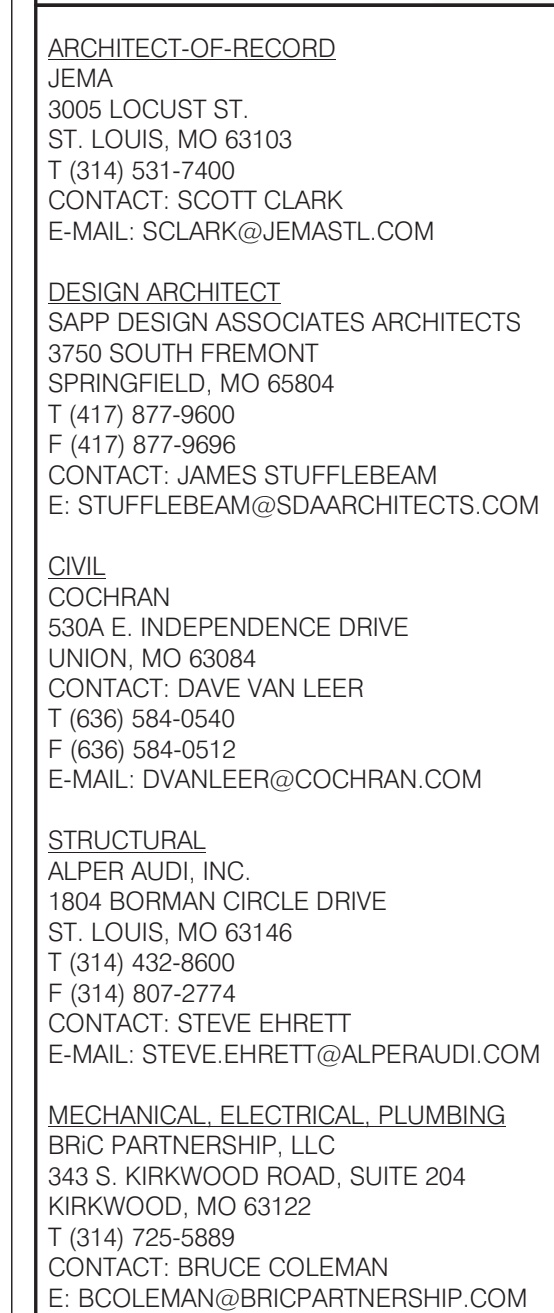
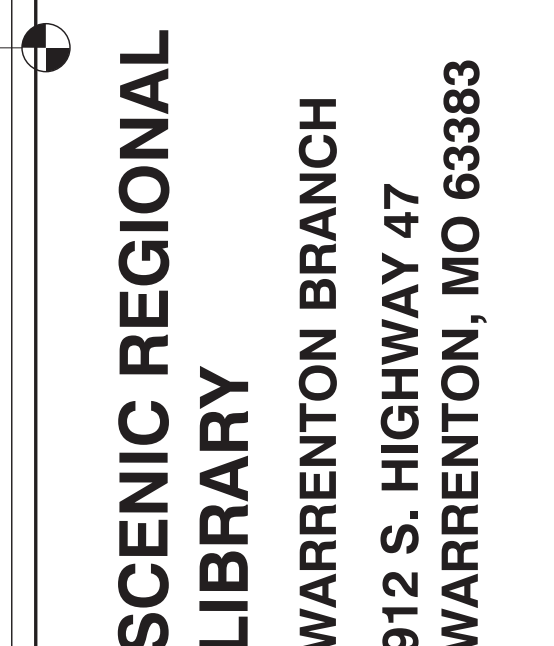


9
A-601

BRANCH WALL SIGNAGE

1/2" = 1'-0"

KEYED NOTES - EXTERIOR ELEVATIONS	
01	PRE-FINISHED METAL COPING
02	HORIZONTAL HARDI-PANEL CEMENT FIBER BOARD PANEL W/ 1/3 OFFSET LAYOUT AND TRIM EXTRUSIONS, TYP. PANEL SIZE 18" X 72"- REFER TO SPECIFICATIONS.
03	PRE-FINISHED EXTRUDED ALUMINUM SIDING - REFER TO SPECIFICATIONS
04	HORIZONTAL HARDI-PANEL CEMENT FIBER BOARD PANEL W/ STACK BOND LAYOUT AND TRIM EXTRUSIONS, TYP. PANEL SIZE 24" X 60"- REFER TO SPECIFICATIONS.
05	BUILDING SIGNAGE - REFER TO SPECS. FOR MORE INFORMATION
06	PRE-FINISHED ALUM. STOREFRONT - REFER TO SPECIFICATIONS FOR MORE INFORMATION
07	VERTICAL CONTR JOINT - REFER TO SPECIFICATIONS FOR MORE INFORMATION
08	NOT USED
09	EXISTING BRICK TO REMAIN.
10	3-5/8" BRICK VENEER - REFER TO SPECIFICATIONS
11	THROUGH-WALL BOOK RETURN UNIT - REFER TO ALTERNATES AND SPECIFICATIONS.
12	COMPOSITE METAL PANEL WRAPPED CANOPY - REFER TO SPECIFICATIONS
13	EXISTING METAL WALL COPING TO REMAIN.
14	EXISTING CANOPY TO REMAIN.
15	EXISTING WINDOW UNITS, TRIM AND ALL FLASHING TO REMAIN.
16	EXISTING GUTTER TO REMAIN.
17	EXISTING STANDING SEAM ROOFING TO REMAIN.
18	EXISTING MECHANICAL UNIT TO REMAIN.
19	EXISTING DOWN SPOUT TO REMAIN.
20	EXISTING FRAME, DOOR AND HARDWARE TO REMAIN.
21	EXISTING ROOFING TO REMAIN.
22	HORIZONTAL CEMENT FIBER BOARD PANEL W/ 1/3 OFFSET LAYOUT OVER EXISTING WALL SHEATHING - REFER TO DETAILS AND SPECIFICATIONS
23	PREFINISHED WALL COPING/FLASHING - REFER TO SPECIFICATIONS
24	OVER FLOW DRAIN NOZZLE - REFER TO SPECIFICATIONS
25	EXISTING METAL WALL PANEL TO REMAIN.
26	METAL PANEL TO MATCH STOREFRONT.
27	WALL SCUPPER, COLLECTOR HEAD AND DOWN SPOUT, REFER TO ENLARGED ROOF PLAN FOR MORE INFORMATION.

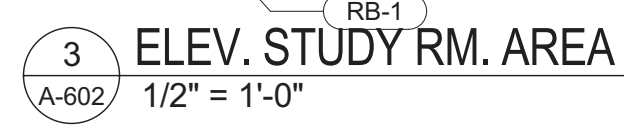
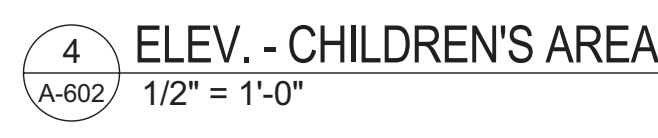


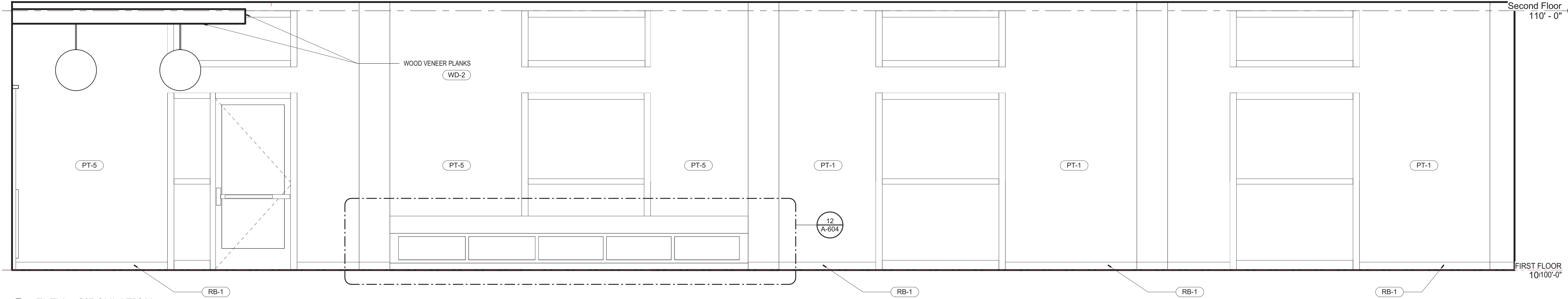
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PROJECT NUMBER: **16-1161.06**

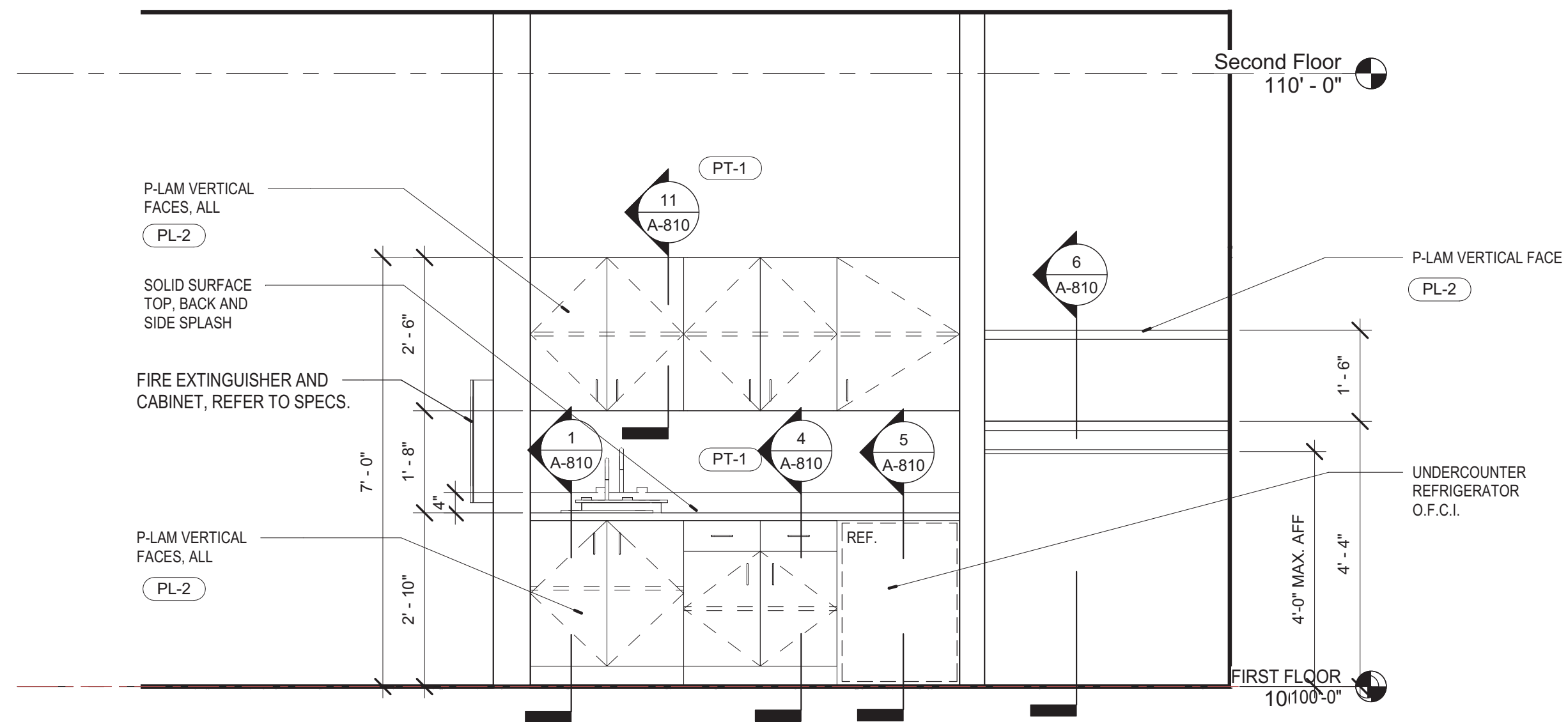
SHEET TITLE:
INTERIOR ELEVATIONS

A-602

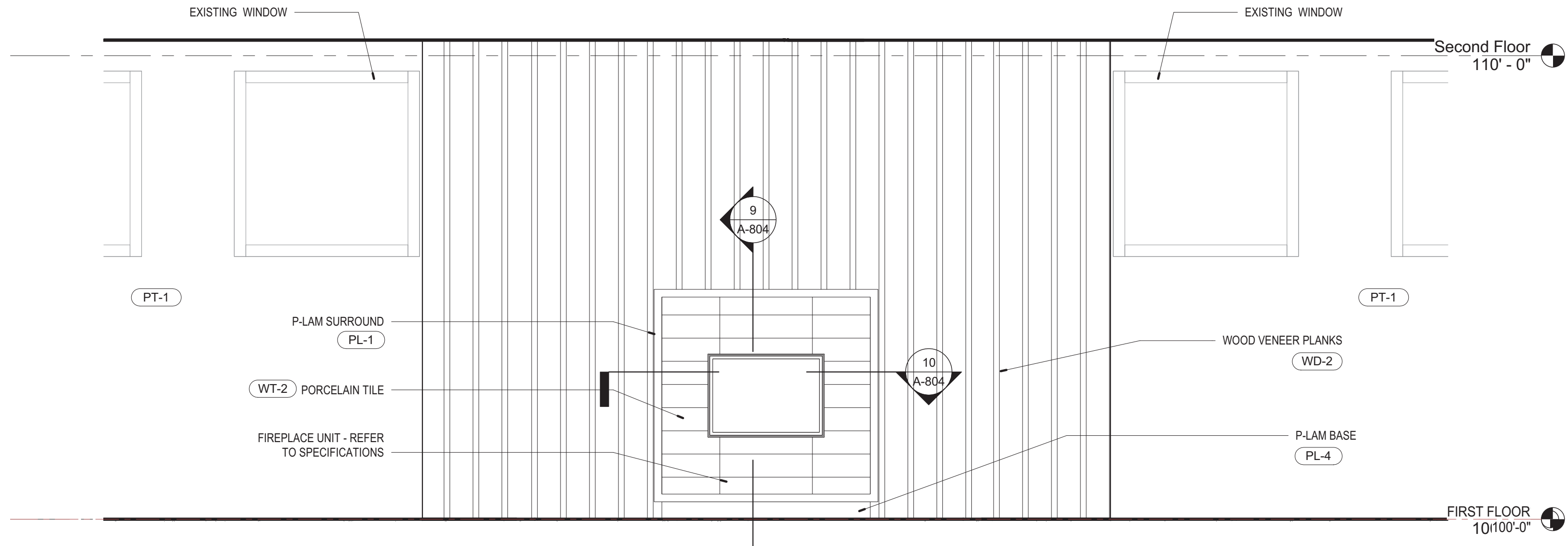




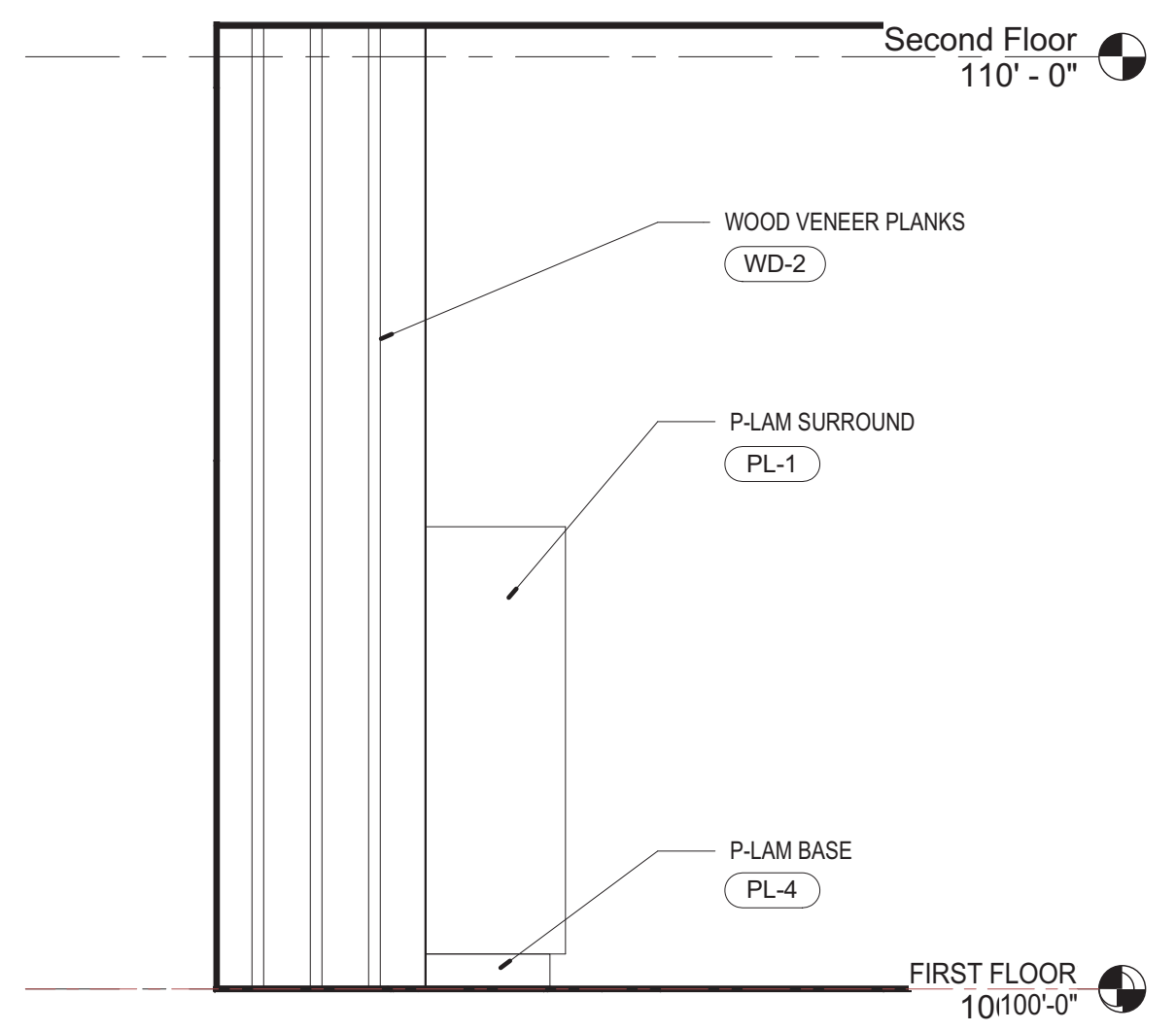
1 ELEV. - CIRCULATION
1/2" = 1'-0"



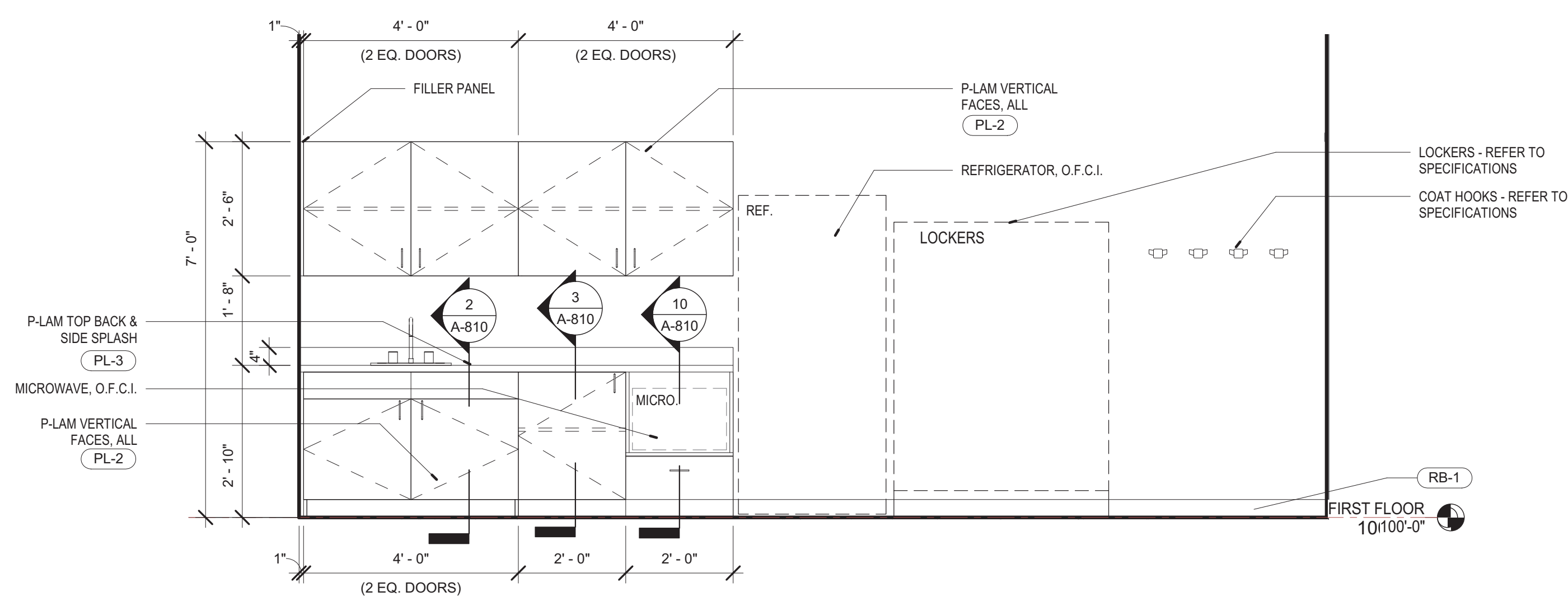
2 ELEV. MTG. RM. MILLWORK
1/2" = 1'-0"



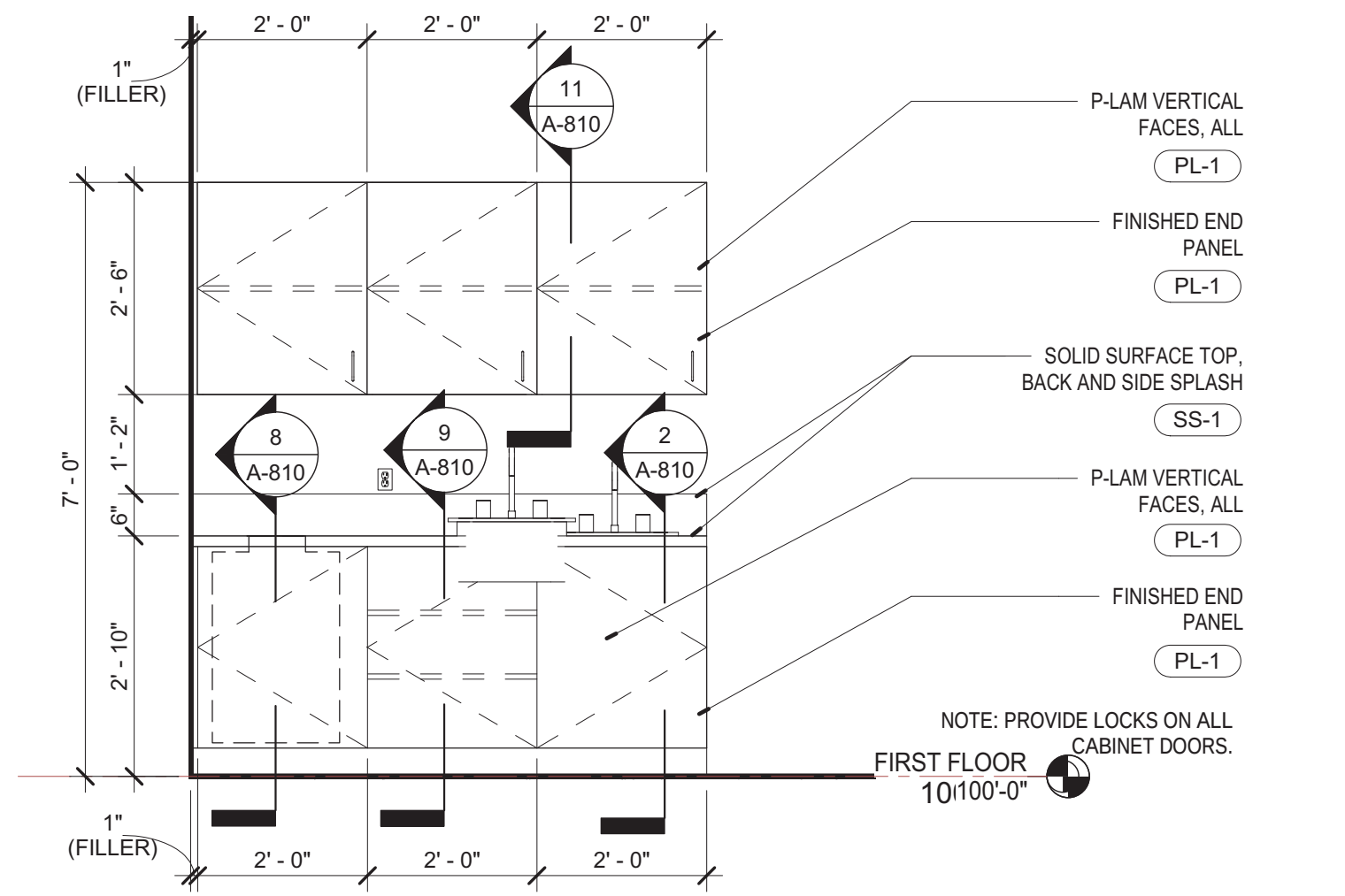
3 ELEV. - ADULTS AREA
1/2" = 1'-0"



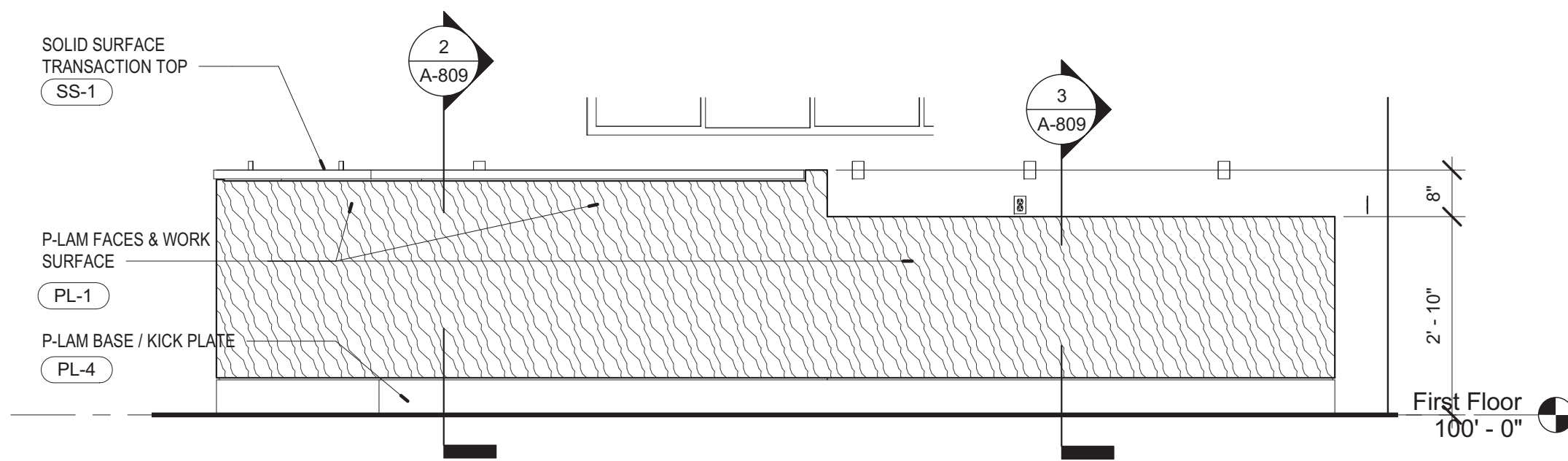
4 ELEV. - ADULT AREA SIDE VIEW
1/2" = 1'-0"



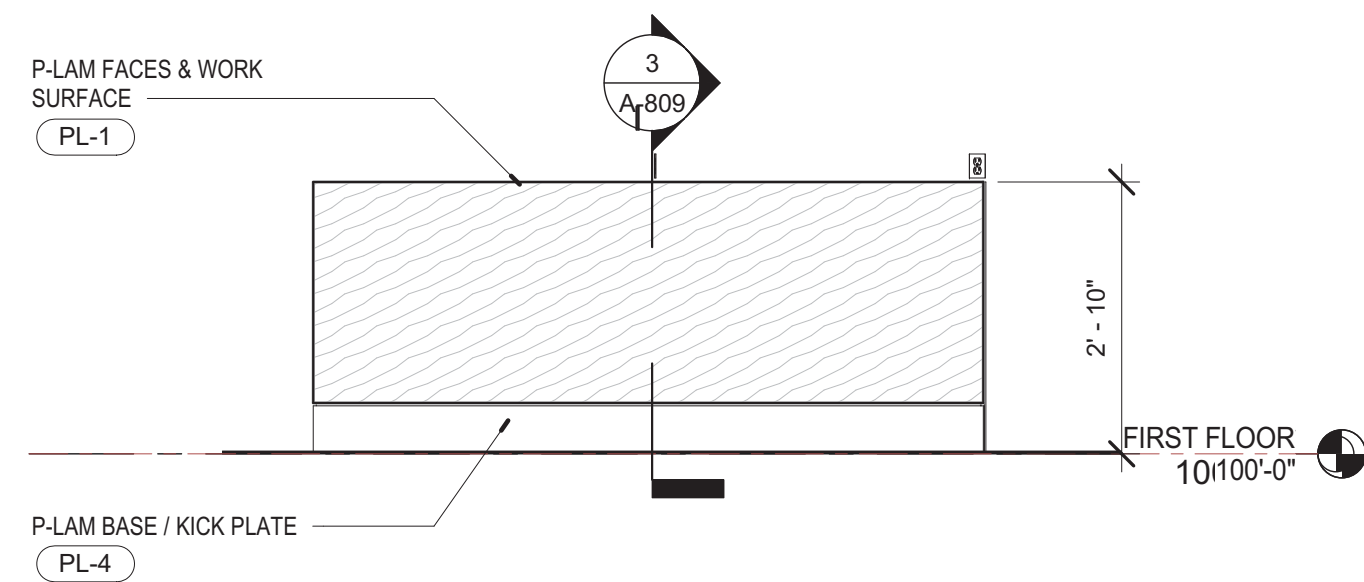
5 ELEV. - BREAK ROOM
1/2" = 1'-0"



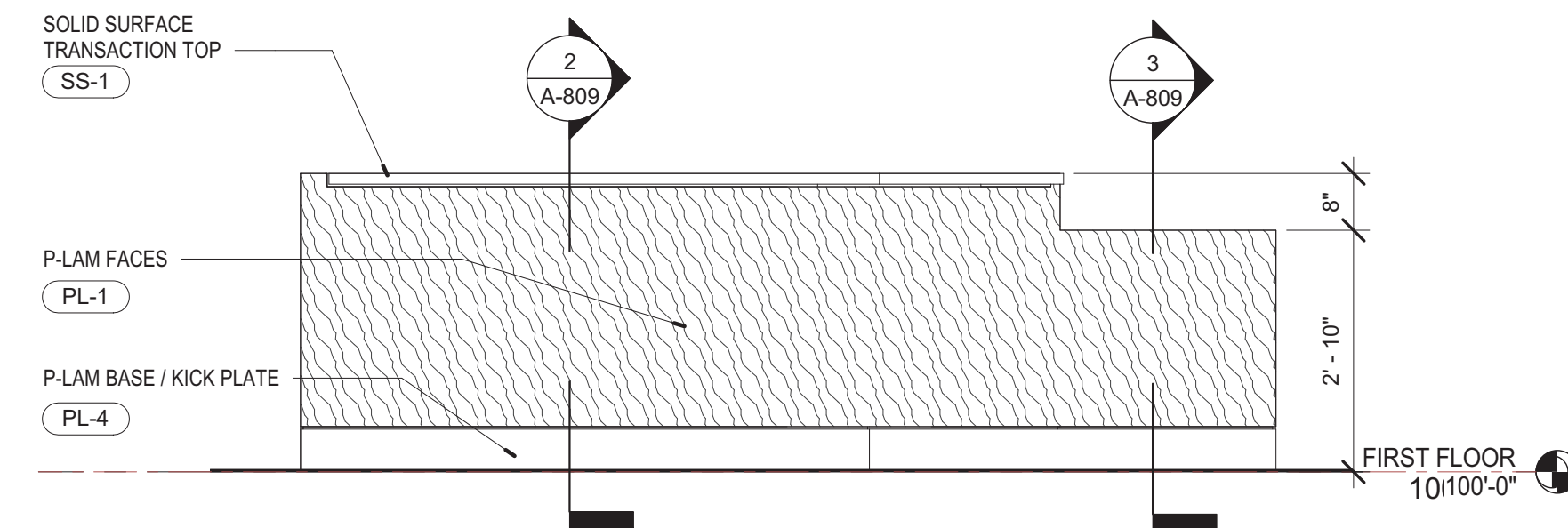
6 ELEV. - CAFE MILKWORK
1/2" = 1'-0"



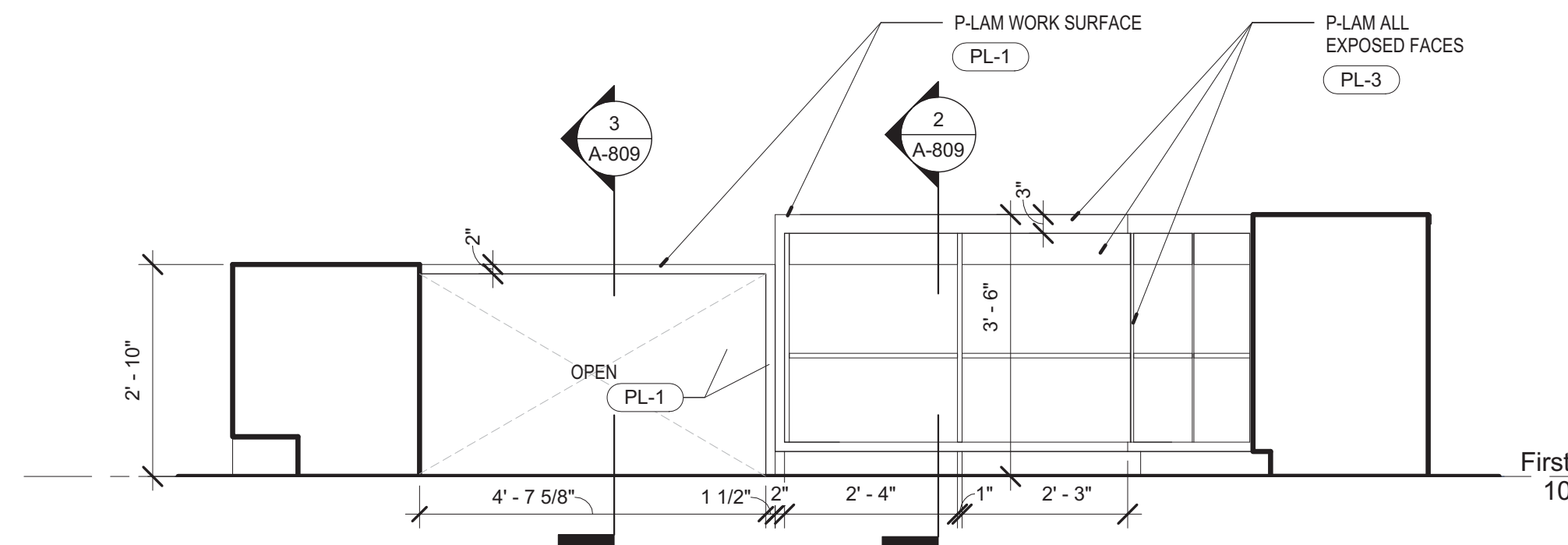
1 ELEV - CIRCULATION DESK FRONT
A-604 1/2" = 1'-0"



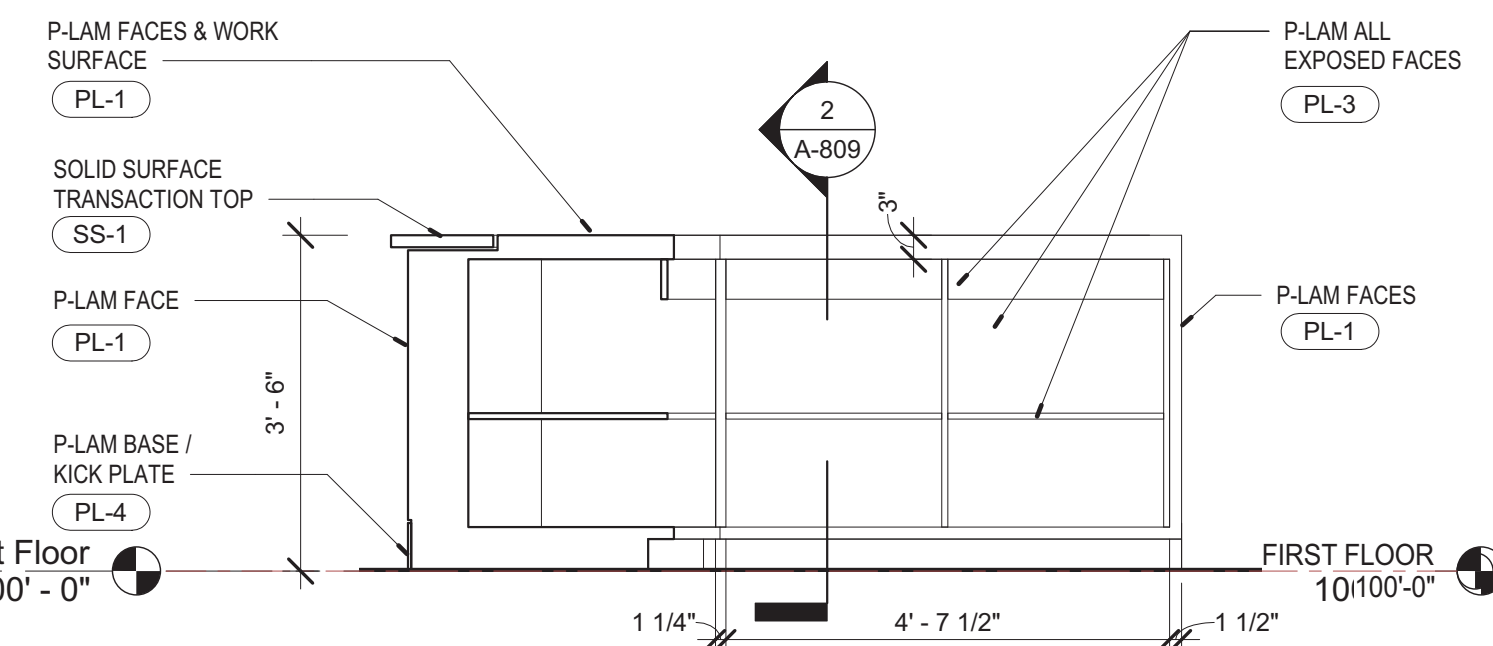
2 ELEV - CIRCULATION DESK SIDE-1
A-604 1/2" = 1'-0"



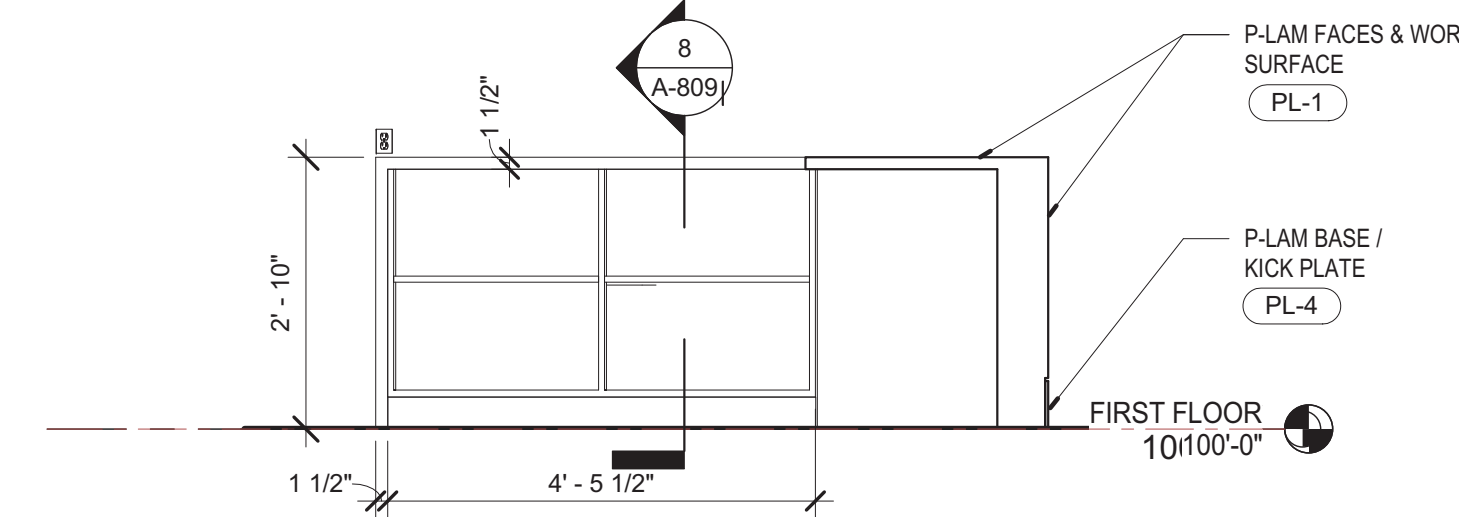
3 ELEV - CIRCULATION DESK SIDE-2
A-604 1/2" = 1'-0"



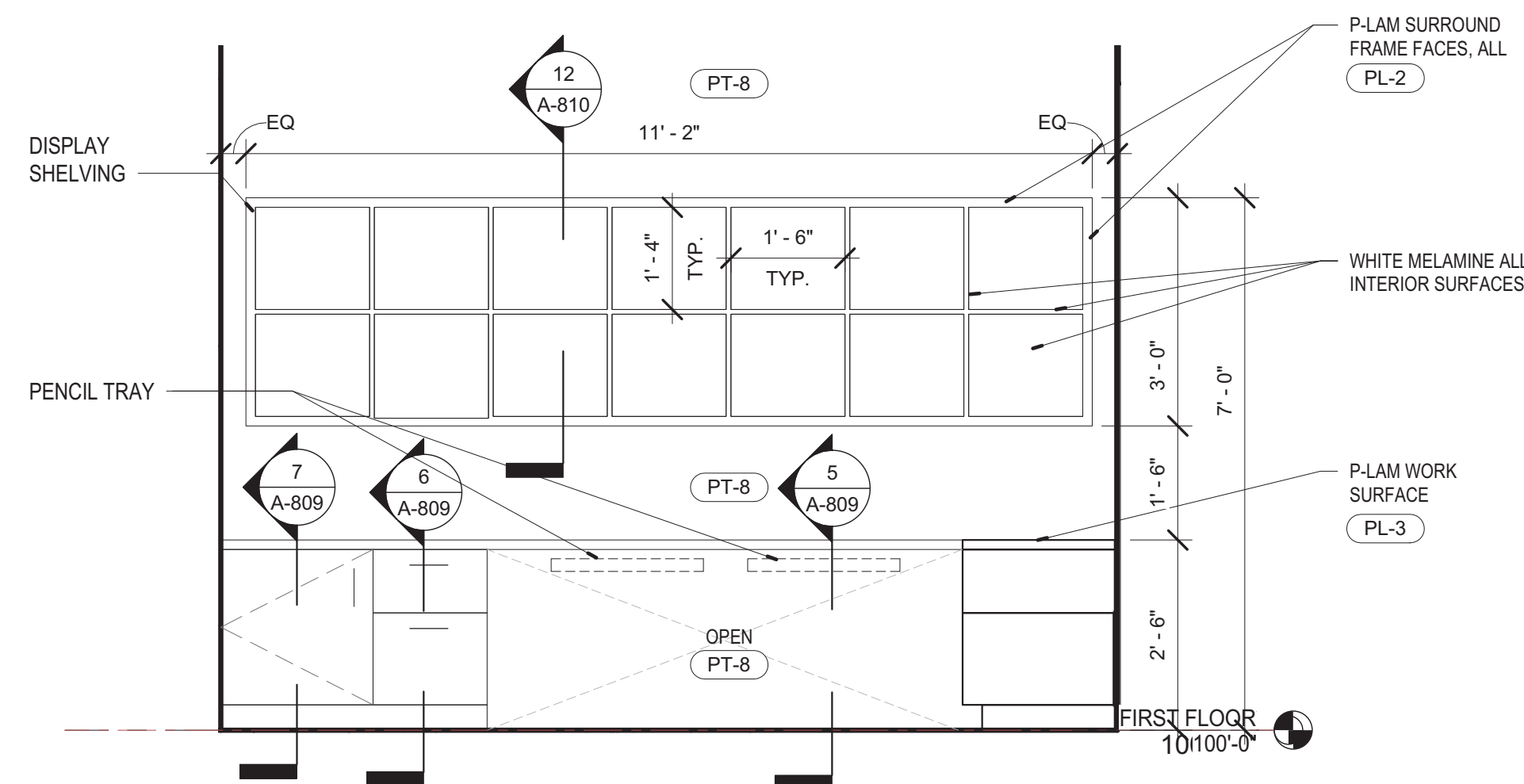
4 ELEV - CIRCULATION BACK-1
A-604 1/2" = 1'-0"



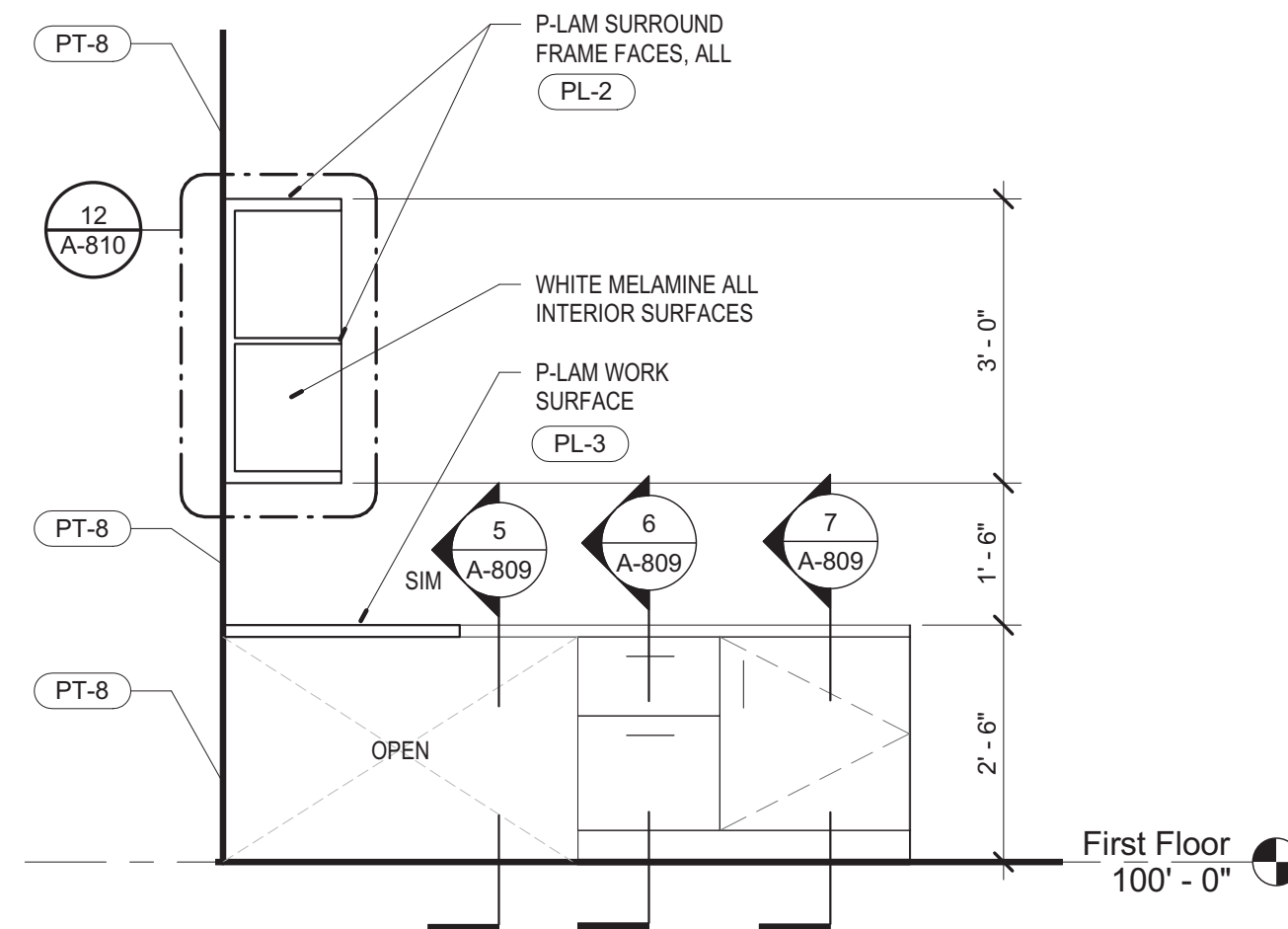
5 ELEV - CIRCULATION BACK-2
A-604 1/2" = 1'-0"



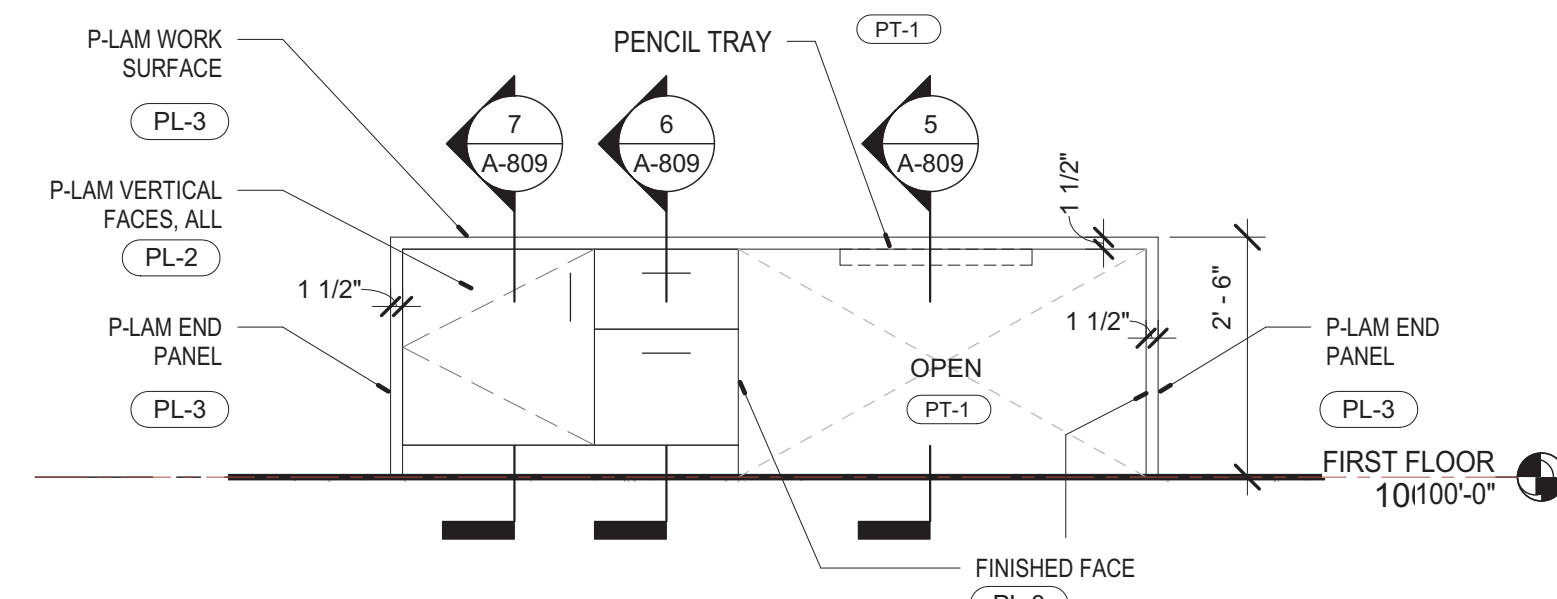
6 ELEV - CIRCULATION BACK-3
A-604 1/2" = 1'-0"



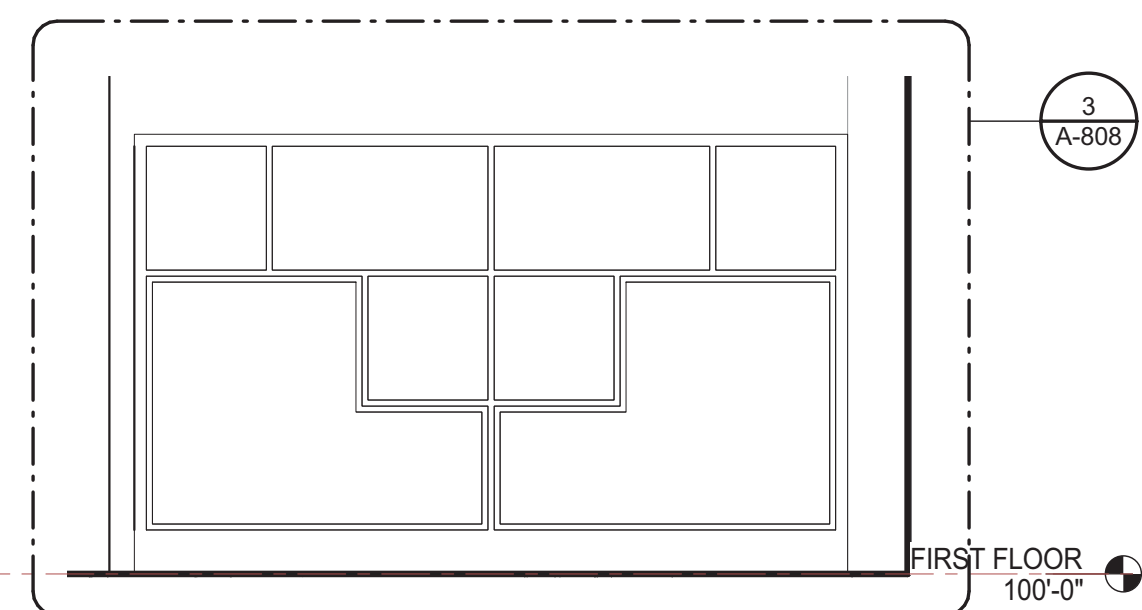
7 ELEV. - WORK RM.
A-604 1/2" = 1'-0"



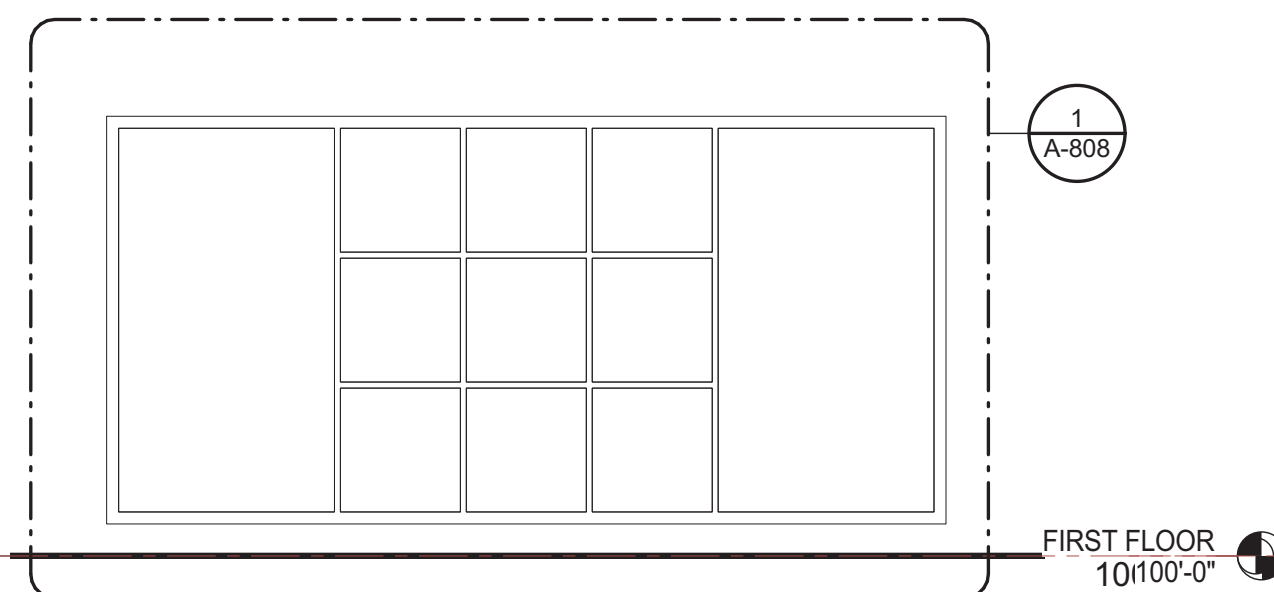
8 ELEV. - WORK ROOM SIDE
A-604 1/2" = 1'-0"



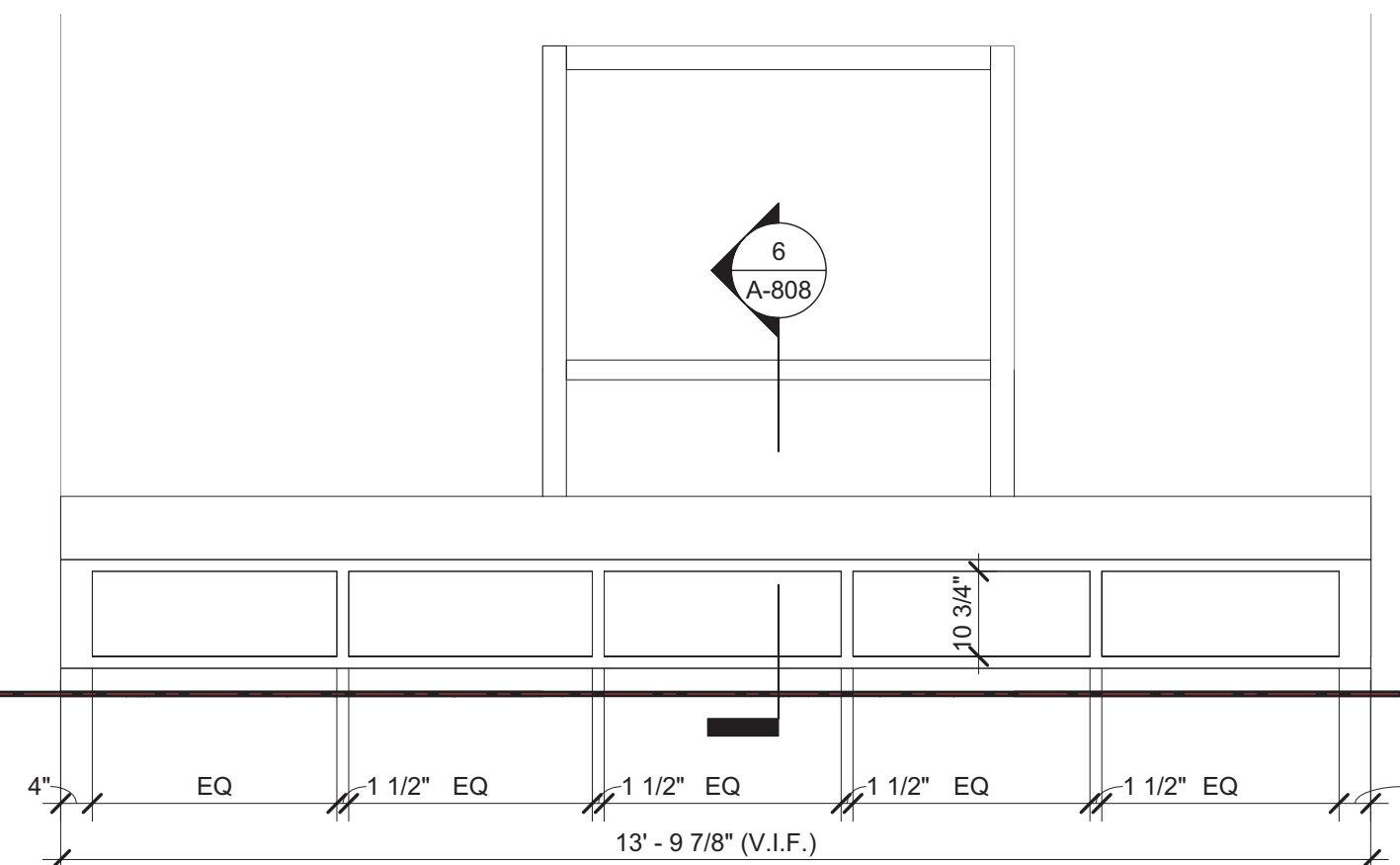
9 ELEV - BACK WORK COUNTER
A-604 1/2" = 1'-0"



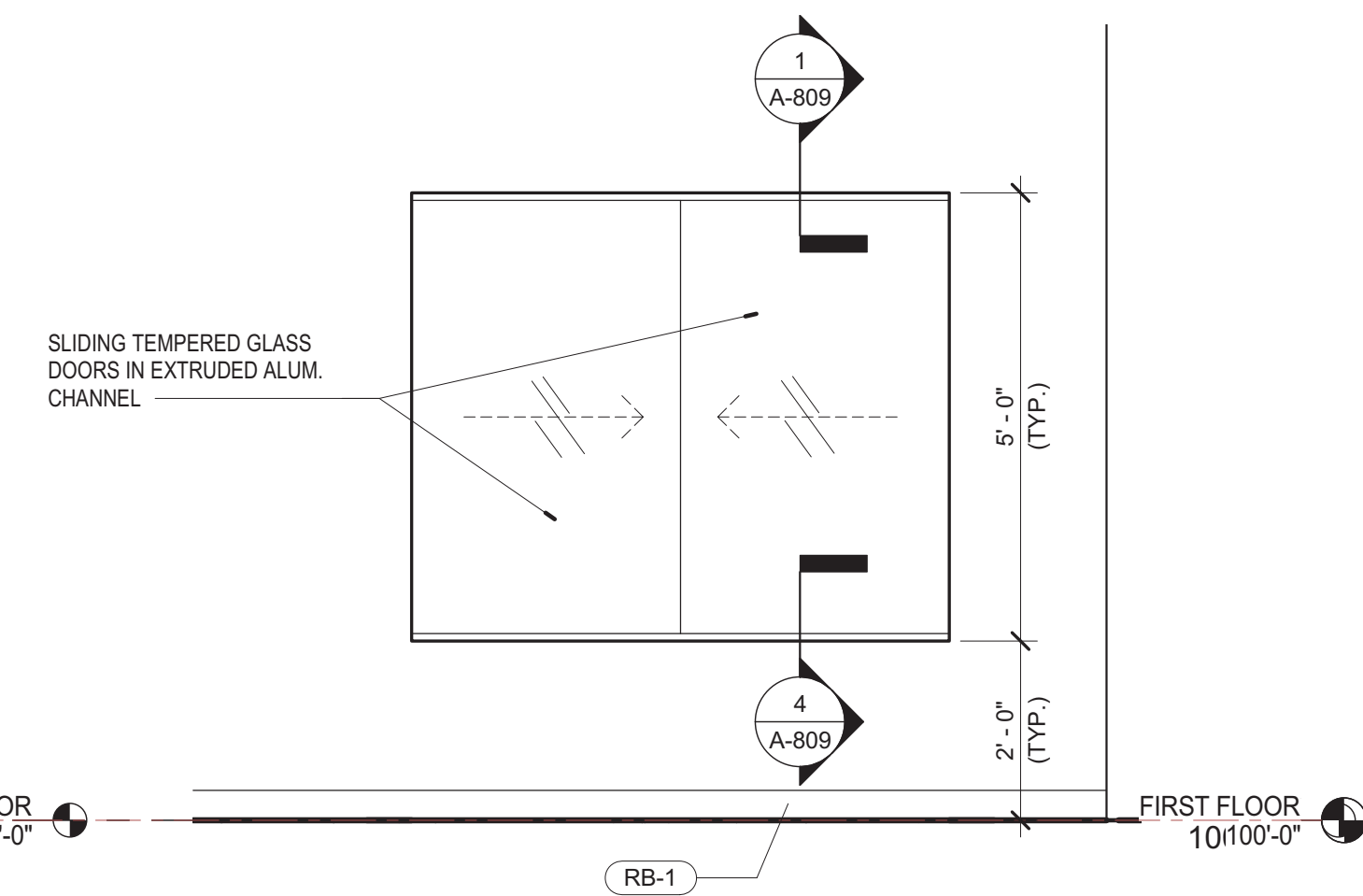
10 ELEV. - CHILDREN'S CUBBIES
A-604 1/2" = 1'-0"



11 ELEV. - CHILDREN'S ACTIVITY WALL
A-604 1/2" = 1'-0"



12 ELEV - CHILDREN'S WINDOW SEAT
A-604 1/2" = 1'-0"



13 ELEV - ENTRY DISPLAY
A-604 1/2" = 1'-0"

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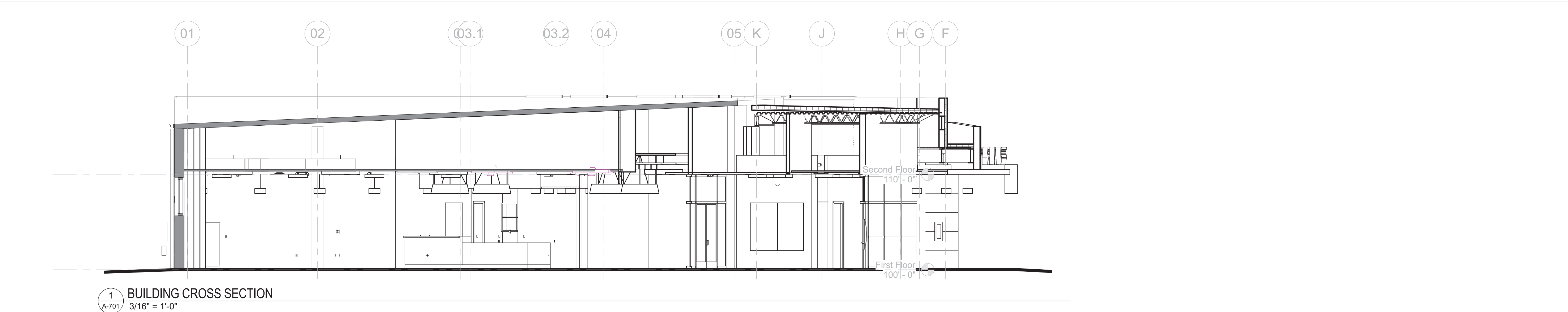
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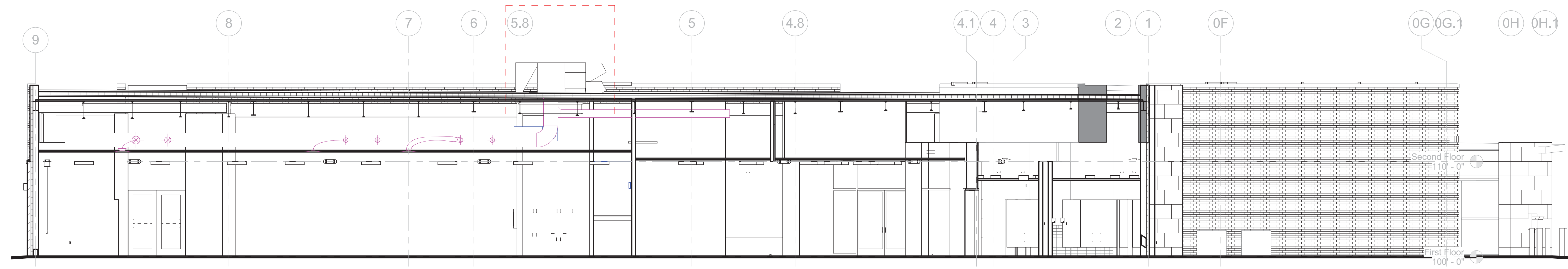
PROJECT NUMBER: **16-1161.06**

SHEET TITLE:
SECTIONS - BUILDING

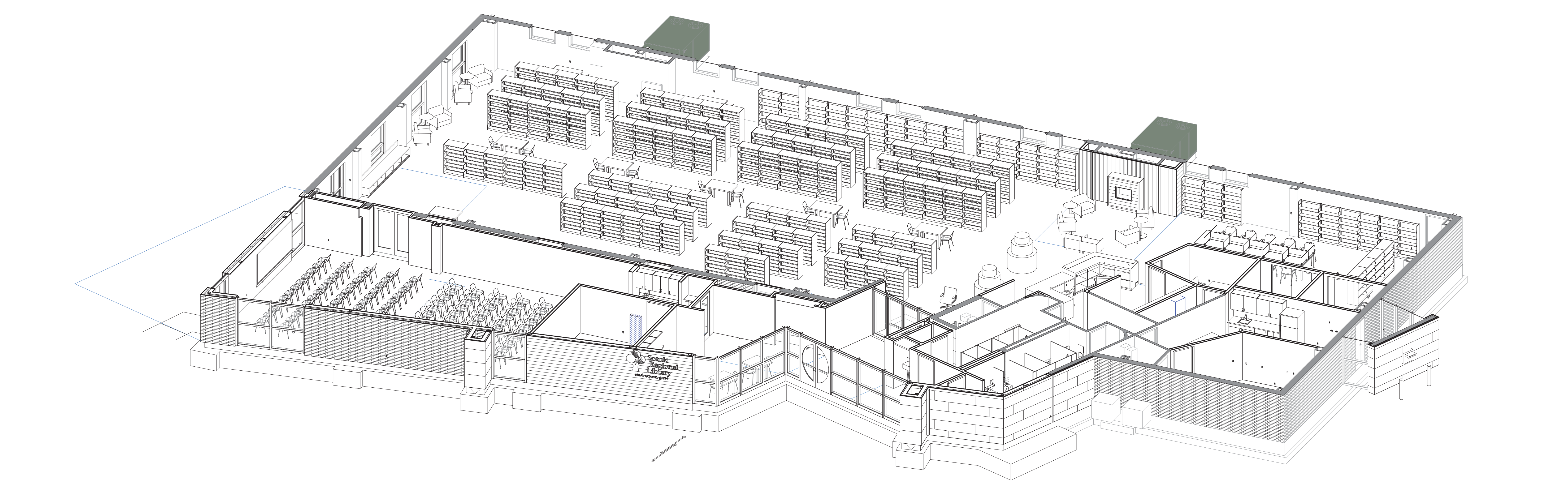
A-701



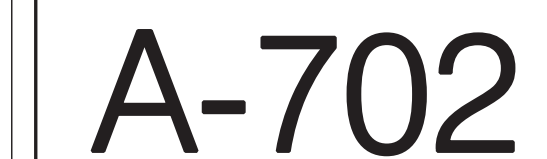
1 BUILDING CROSS SECTION
A-701 3/16" = 1'-0"



2 BUILDING CROSS SECTION
A-701 3/16" = 1'-0"



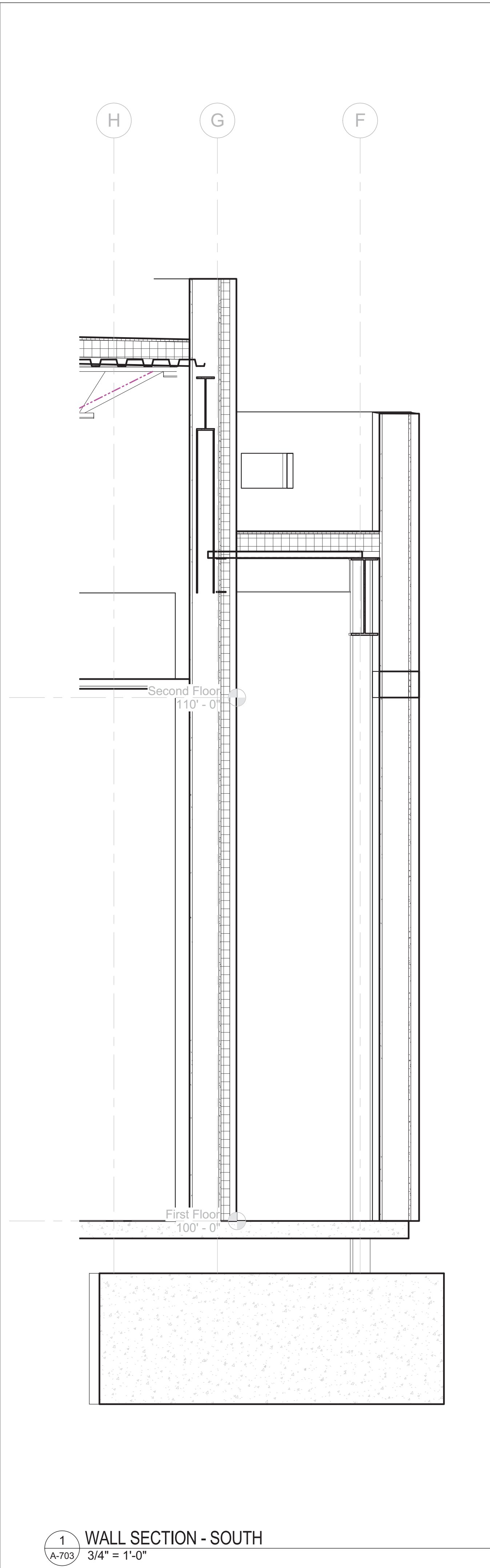
3 BIRDS EYE SECTION CUT
A-701



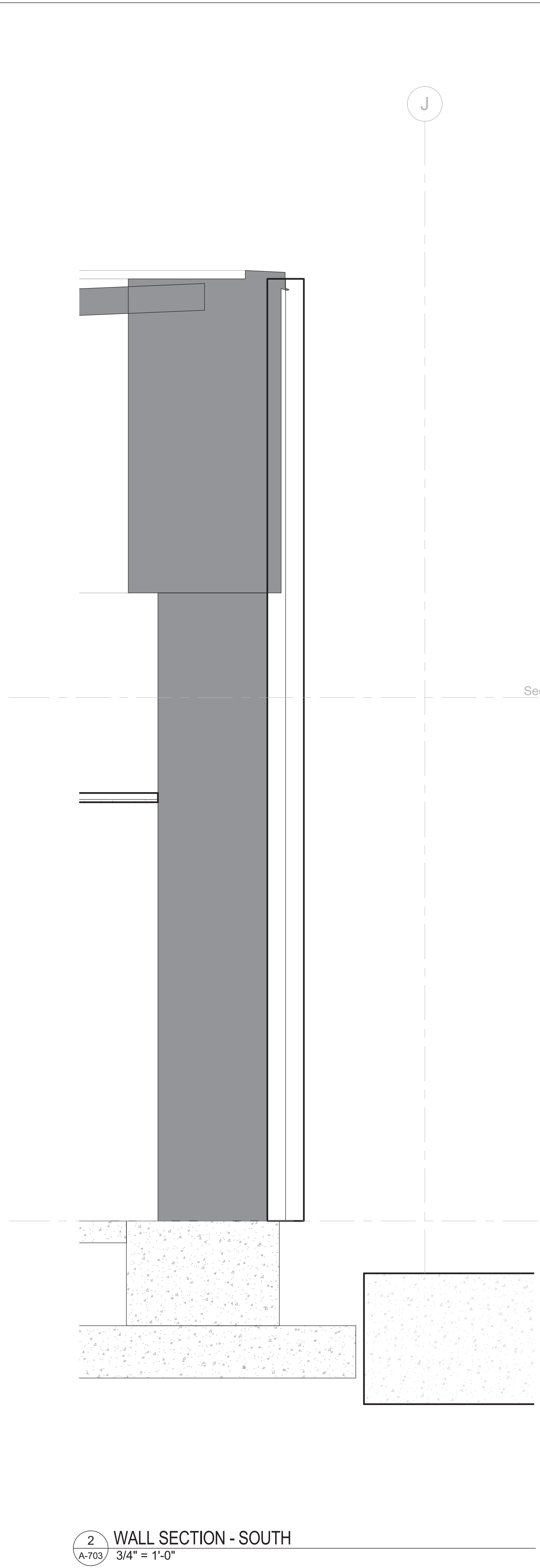
1 WALL SECTION - SOUTH
A-702 3/4" = 1'-0"

2 WALL SECTION - SOUTH
A-702 3/4" = 1'-0"

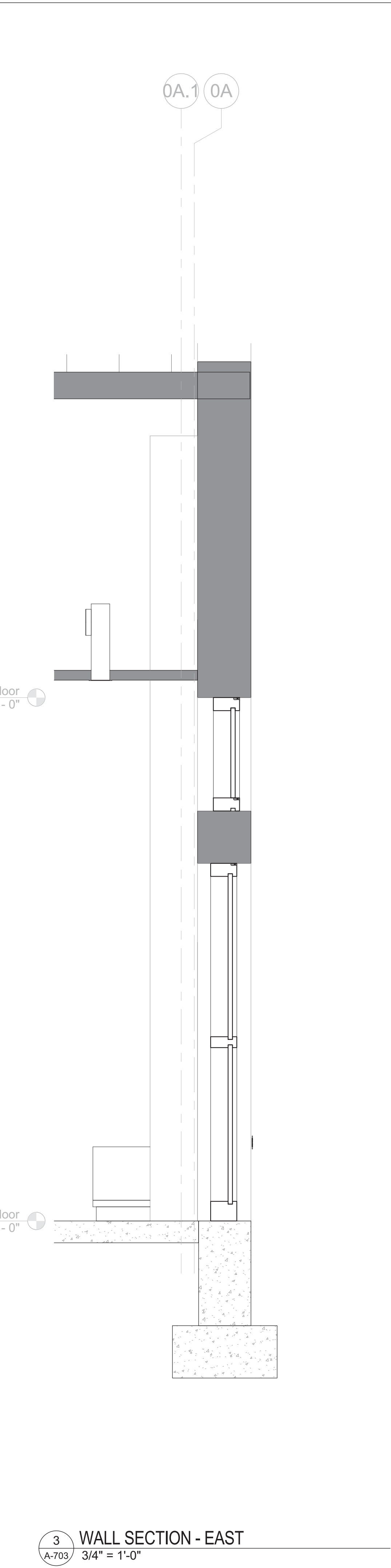
3 WALL SECTION - SOUTH
A-702 3/4" = 1'-0"



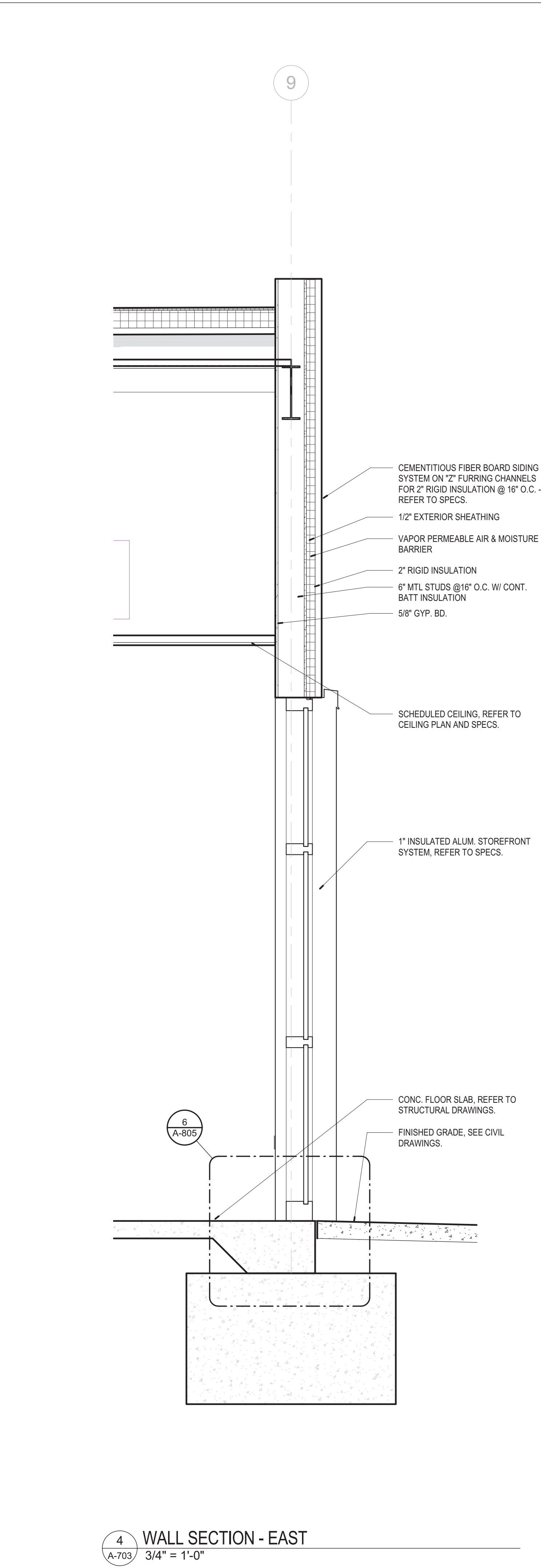
1 WALL SECTION - SOUTH
3/4" = 1'-0"



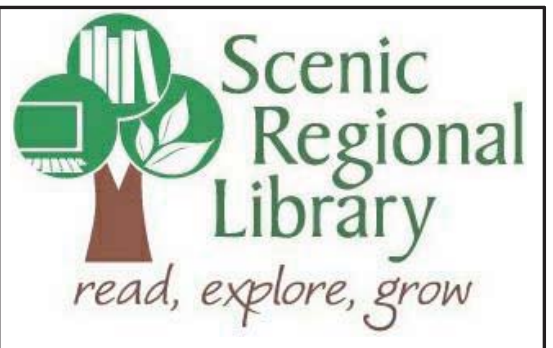
2 WALL SECTION - SOUTH
3/4" = 1'-0"



3 WALL SECTION - EAST
3/4" = 1'-0"



4 WALL SECTION - EAST
3/4" = 1'-0"



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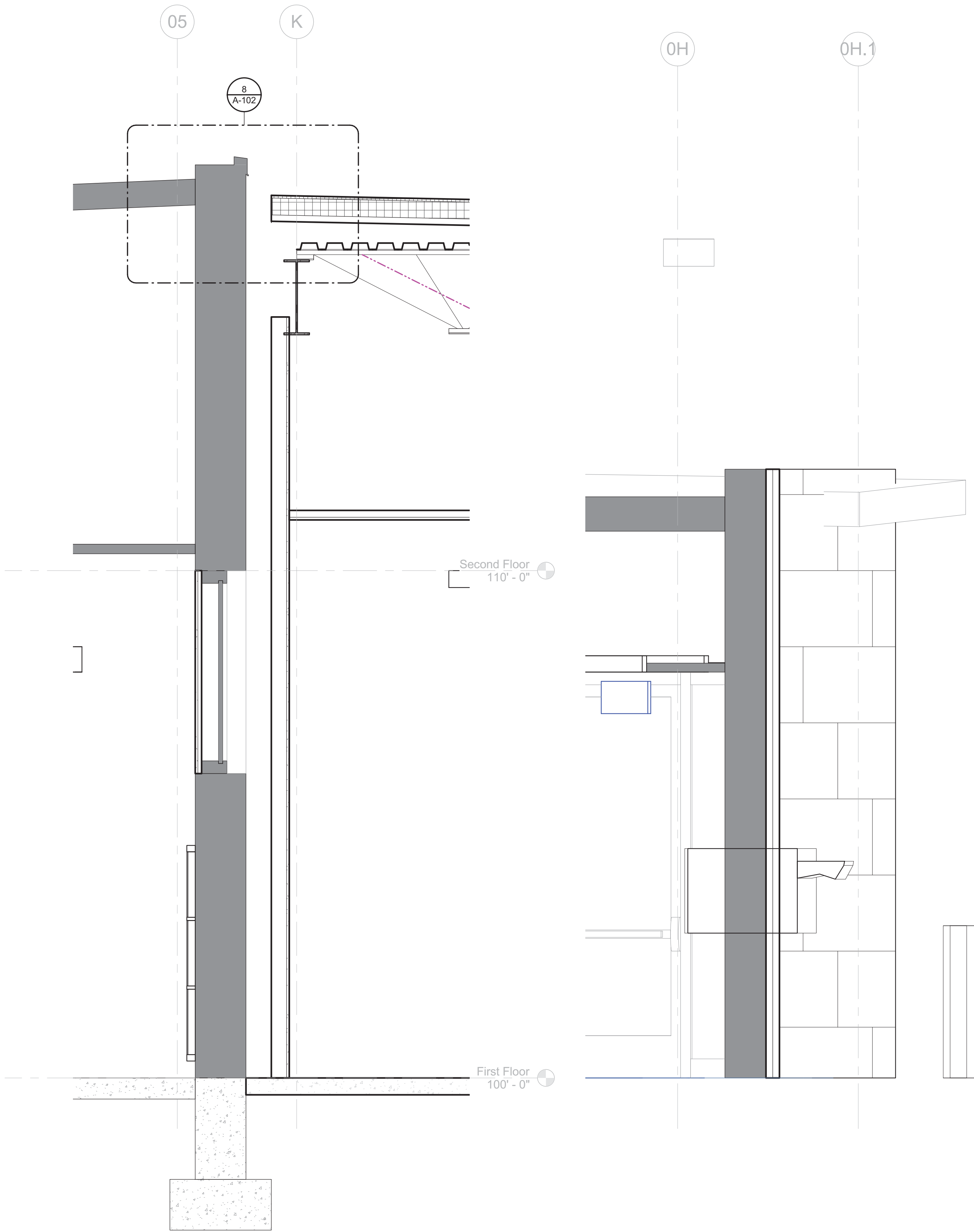
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SHEET TITLE:
WALL SECTIONS
A-703



1 WALL SECTION AT EXISTING
A-704 / 3/4" = 1'-0"

2 WALL SECTION - WEST
A-704 / 3/4" = 1'-0"

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E: BCOLEMAN@BRICPARTNERSHIP.COM

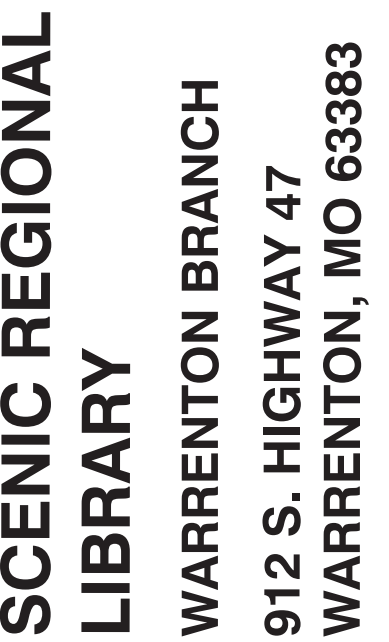
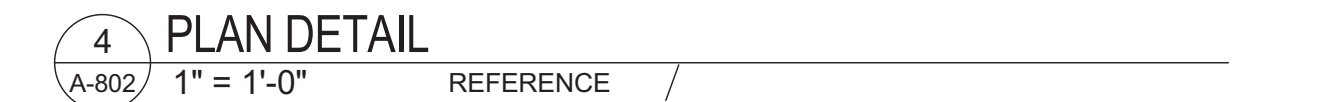
ARCHITECT OF RECORD:		
JOHN EDWARD MUELLER MO ARCHITECTURAL LICENSE A2010039554 MO CERTIFICATE OF AUTHORITY A2014008380		
No.	Date	Description
	06/13/17	ISSUED FOR RE-BID

DRAWN BY: SC/SH
PROJECT NUMBER: 16-1161.06

SHEET TITLE:
WALL SECTIONS

A-704





DESIGN ARCHITECT
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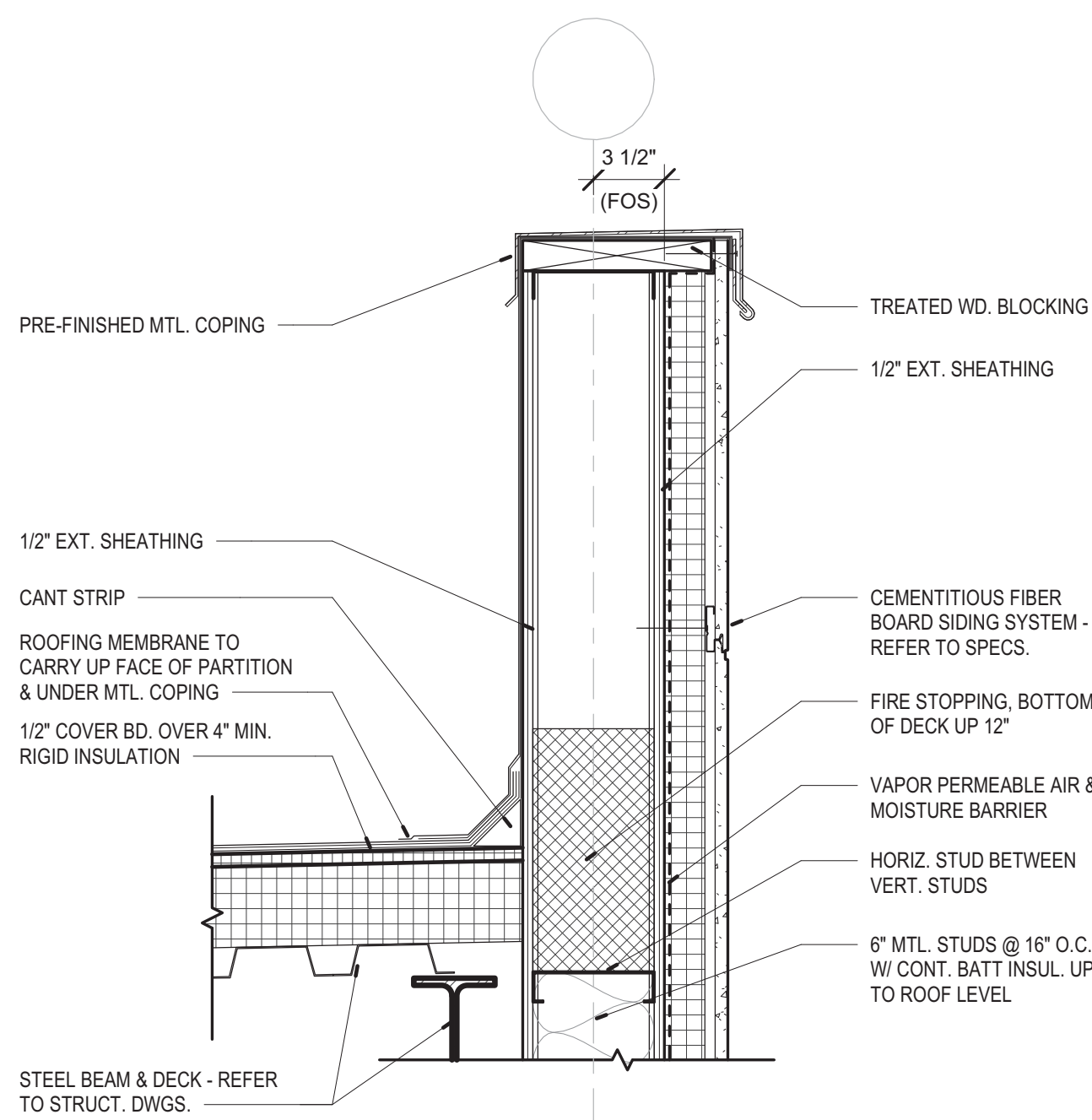
ARCHITECT OF RECORD:

JOHN EDWARD MUELLER
MO ARCHITECTURAL LICENSE A2010039554
MO CERTIFICATE OF AUTHORITY A2014008380

DRAWN BY: **SC/SH**

PROJECT NUMBER: **16-1161.06**

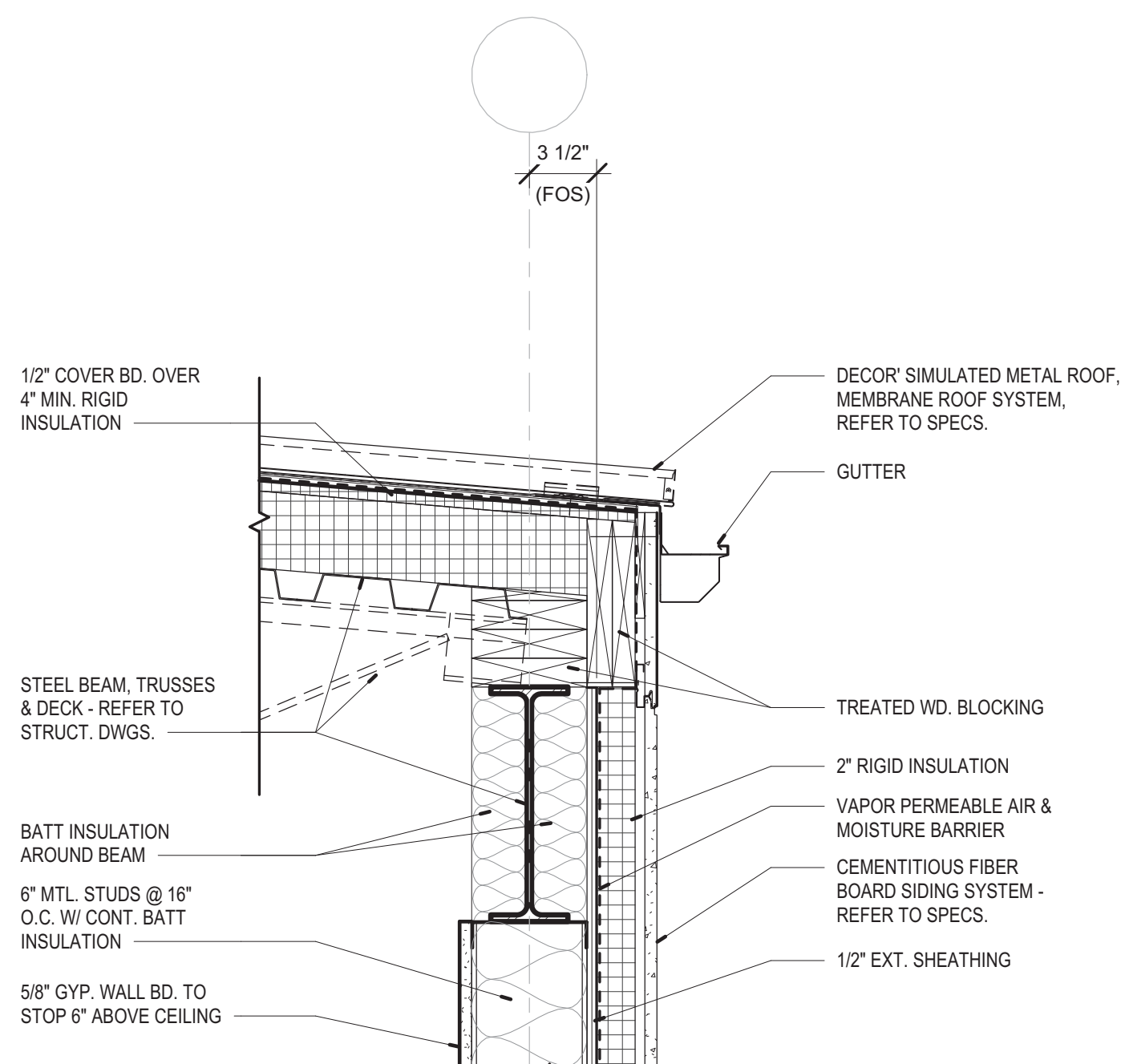
A-802



1 WALL DETAIL

A-803 1 1/2" = 1'-0"

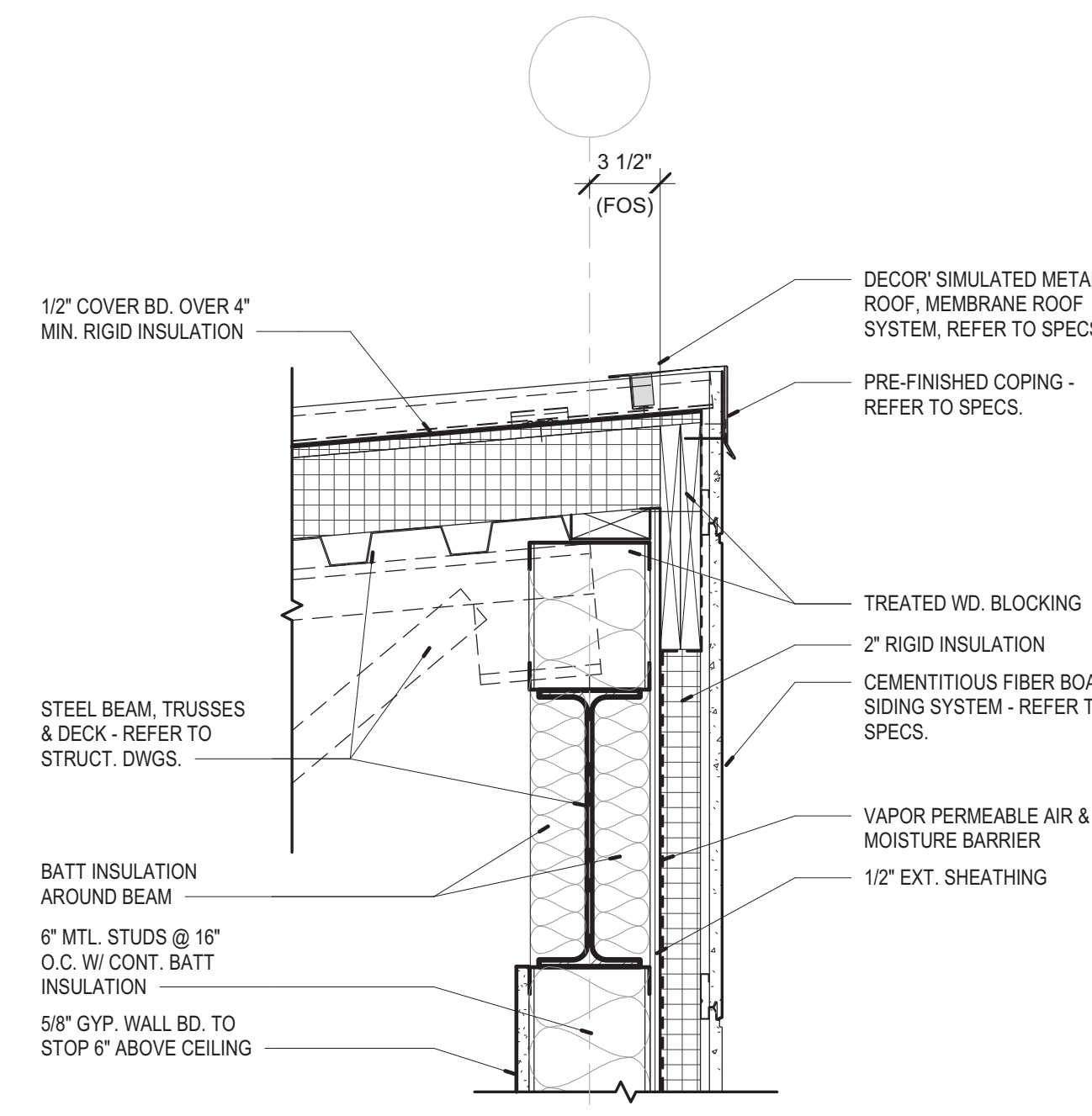
REFERENCE /



2 WALL DETAIL

A-803 1 1/2" = 1'-0"

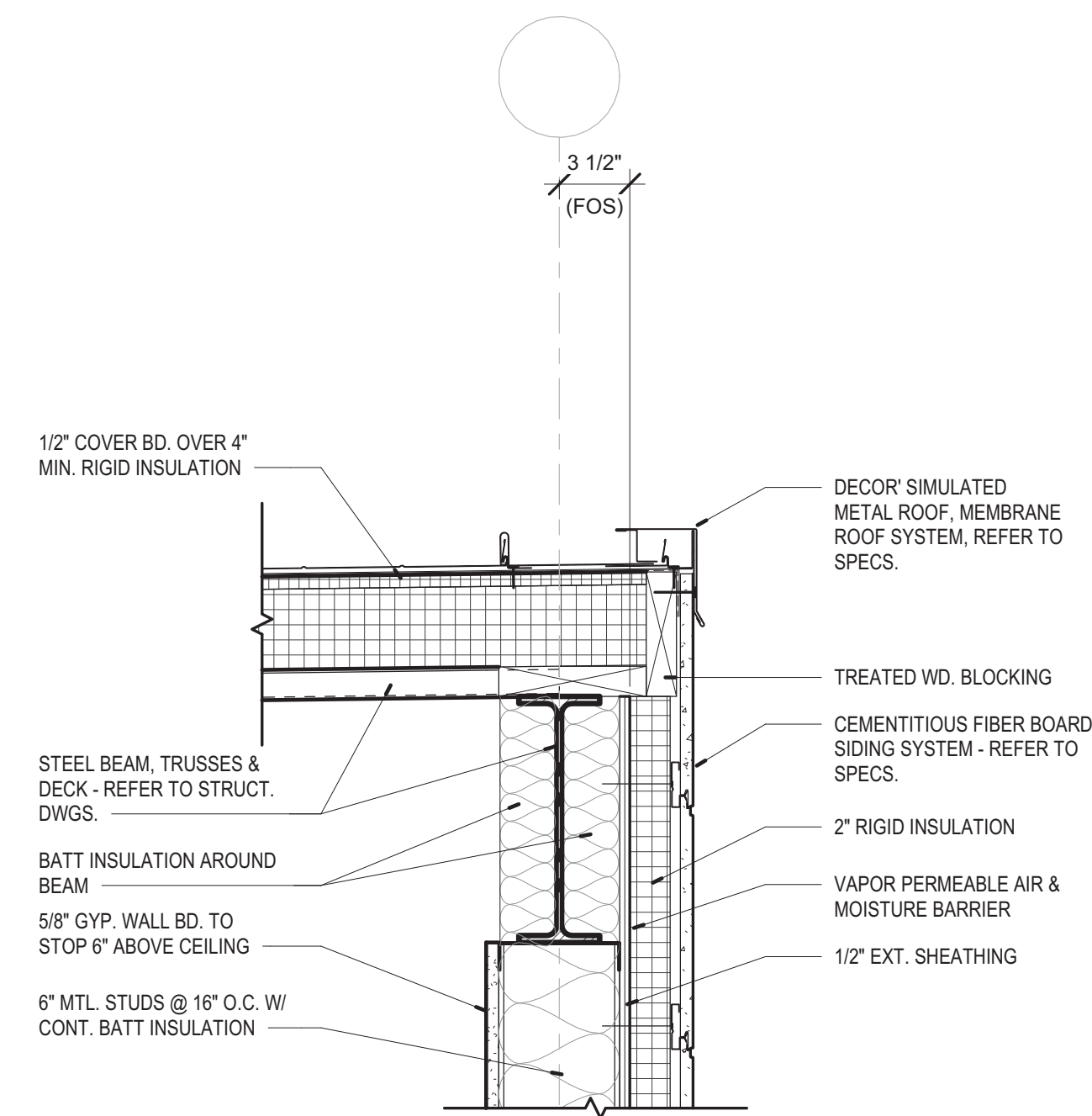
REFERENCE /



3 WALL DETAIL

A-803 1 1/2" = 1'-0"

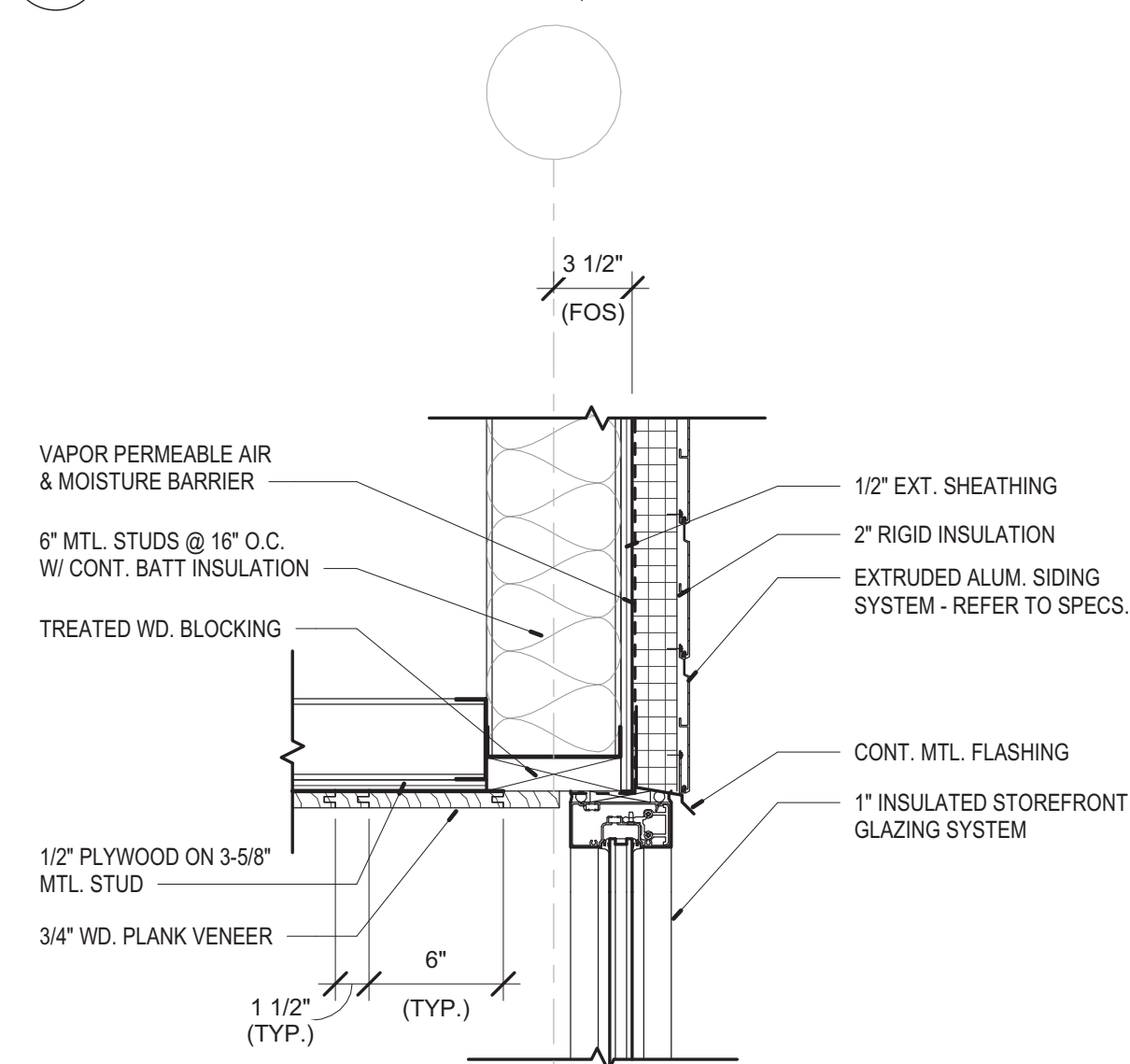
REFERENCE /



4 WALL DETAIL

A-803 1 1/2" = 1'-0"

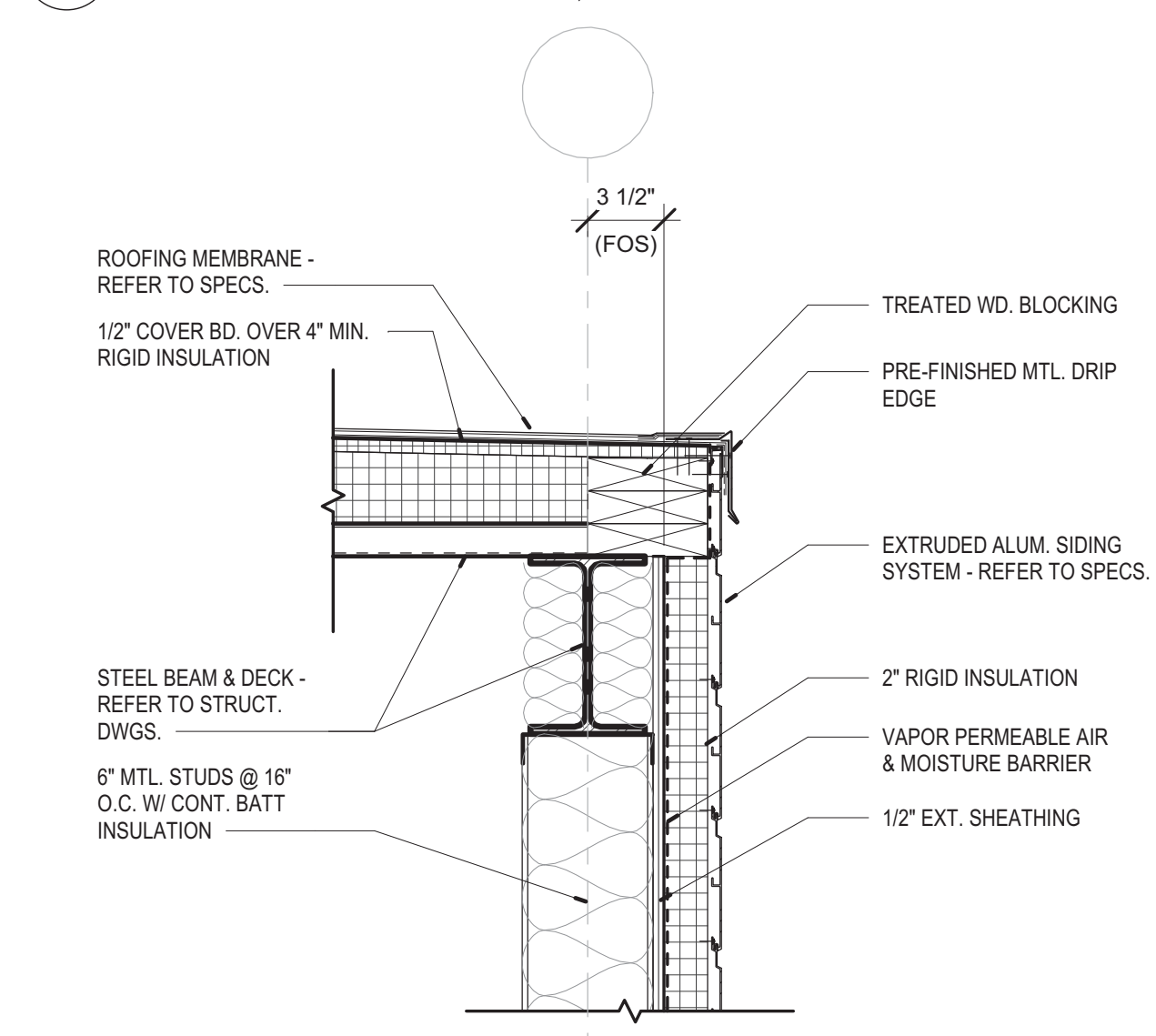
REFERENCE /



5 WALL DETAIL

A-803 1 1/2" = 1'-0"

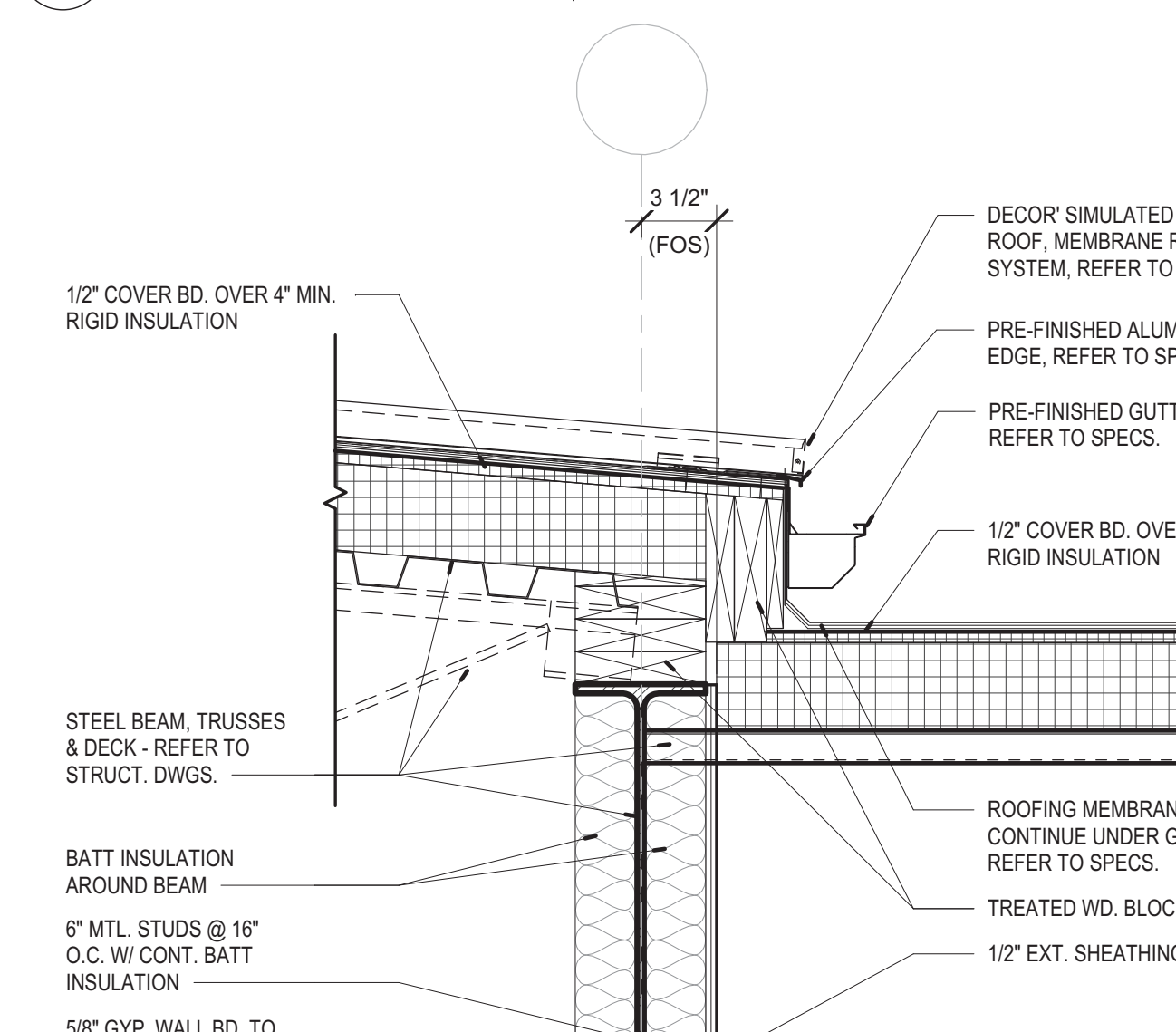
REFERENCE /



6 WALL DETAIL

A-803 1 1/2" = 1'-0"

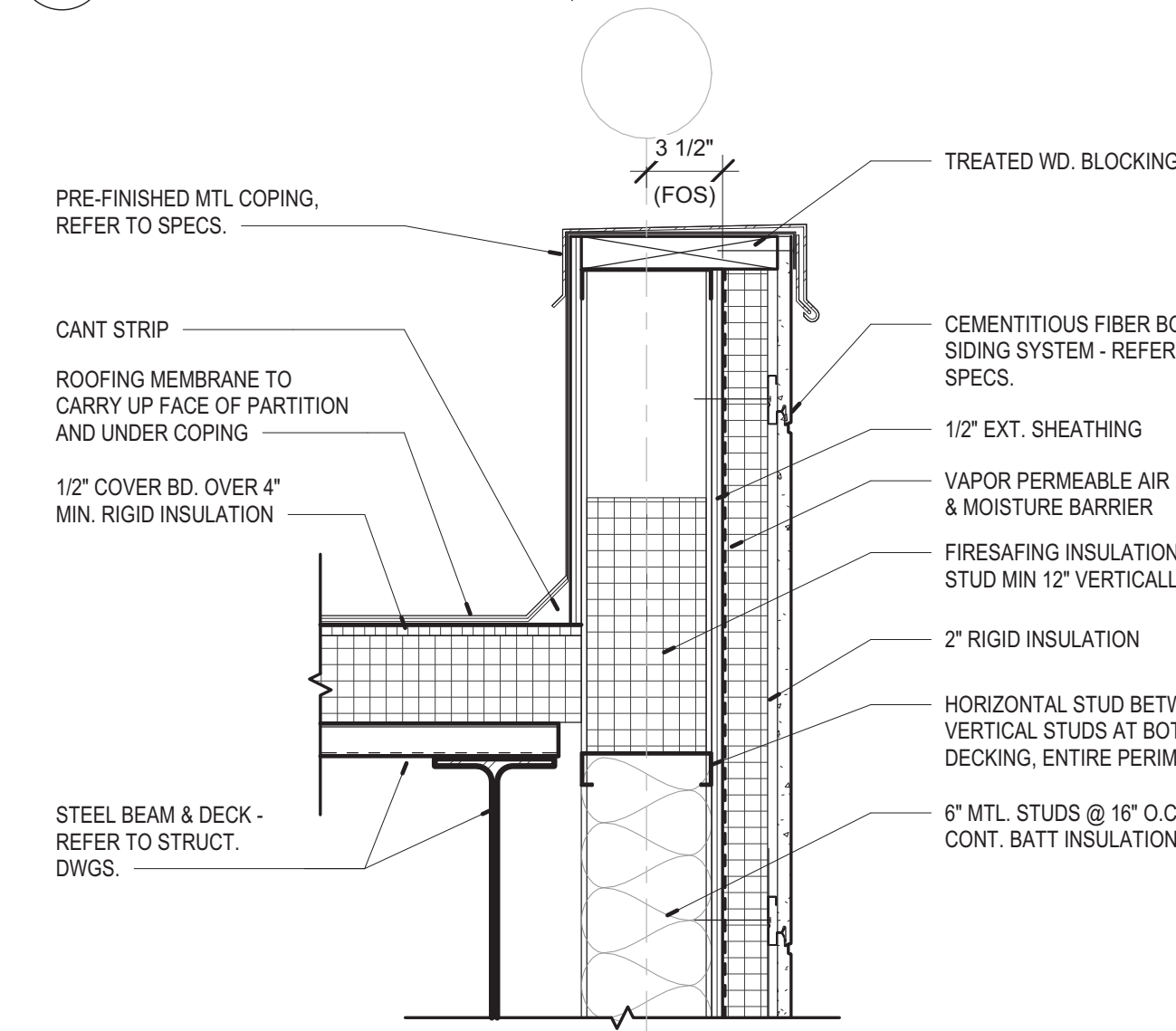
REFERENCE /



7 WALL DETAIL

A-803 1 1/2" = 1'-0"

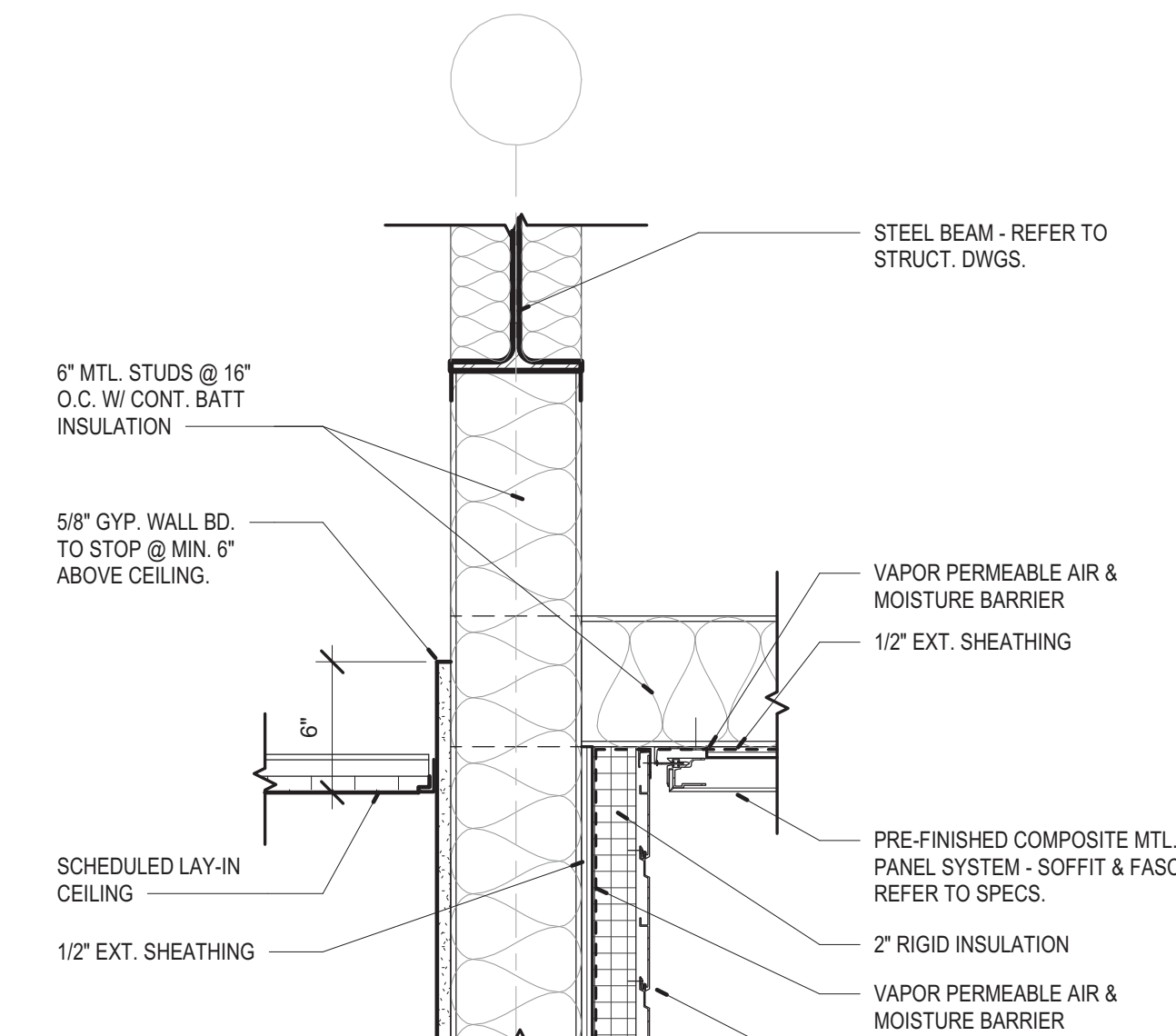
REFERENCE /



8 WALL DETAIL

A-803 1 1/2" = 1'-0"

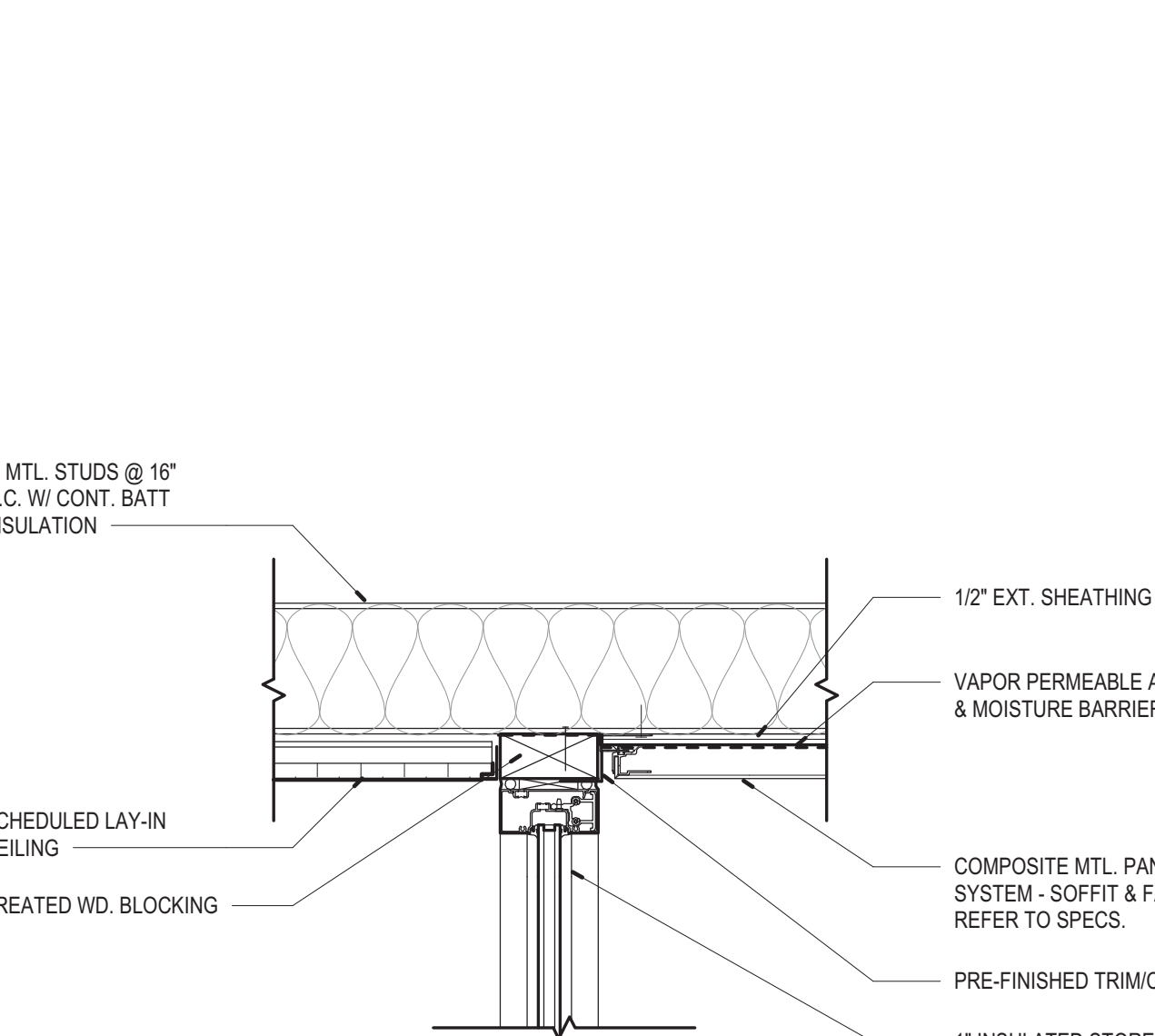
REFERENCE 1 /A-702



9 CANOPY DETAIL

A-803 1 1/2" = 1'-0"

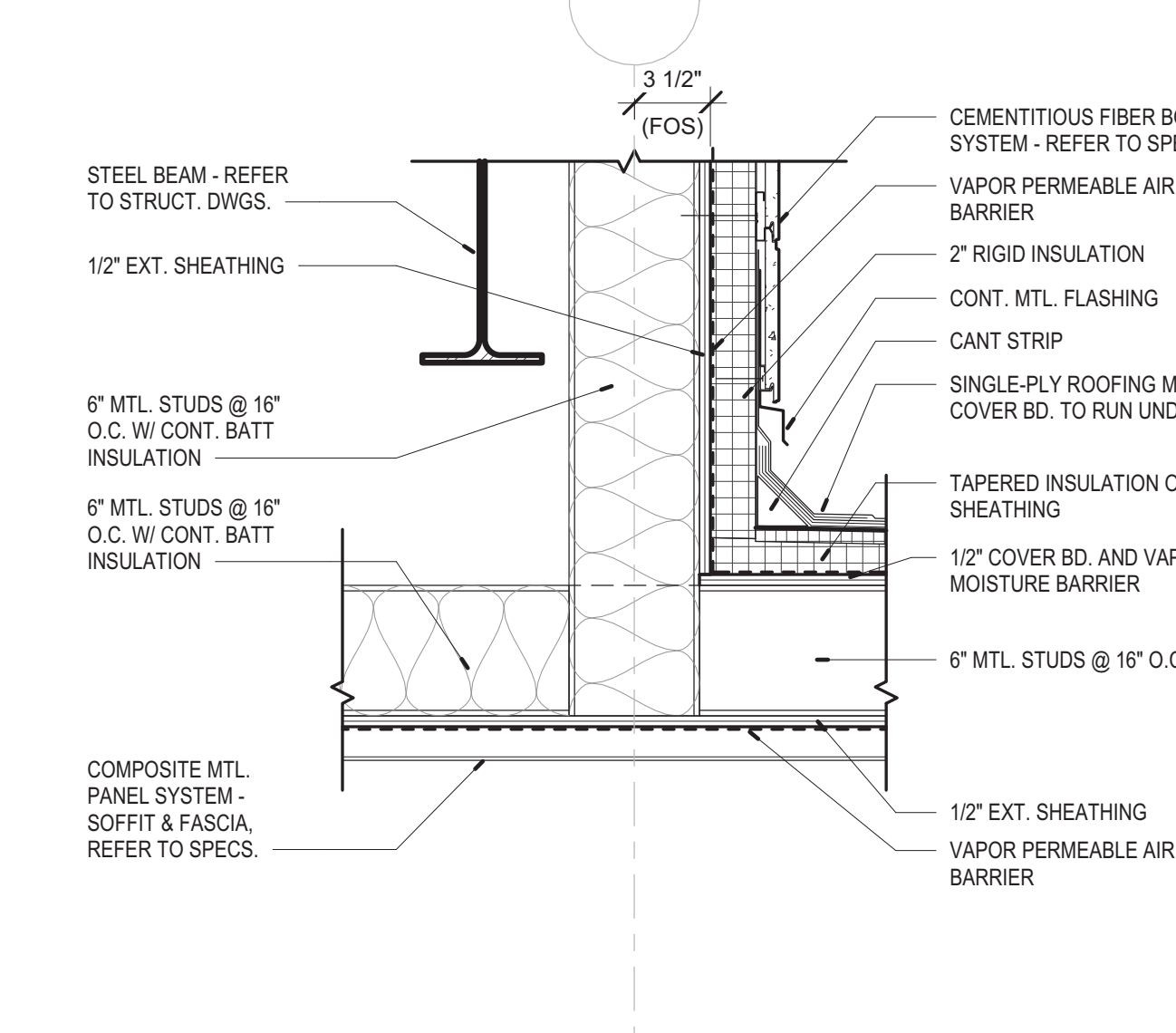
REFERENCE 2 /A-702



10 CANOPY DETAIL

A-803 1 1/2" = 1'-0"

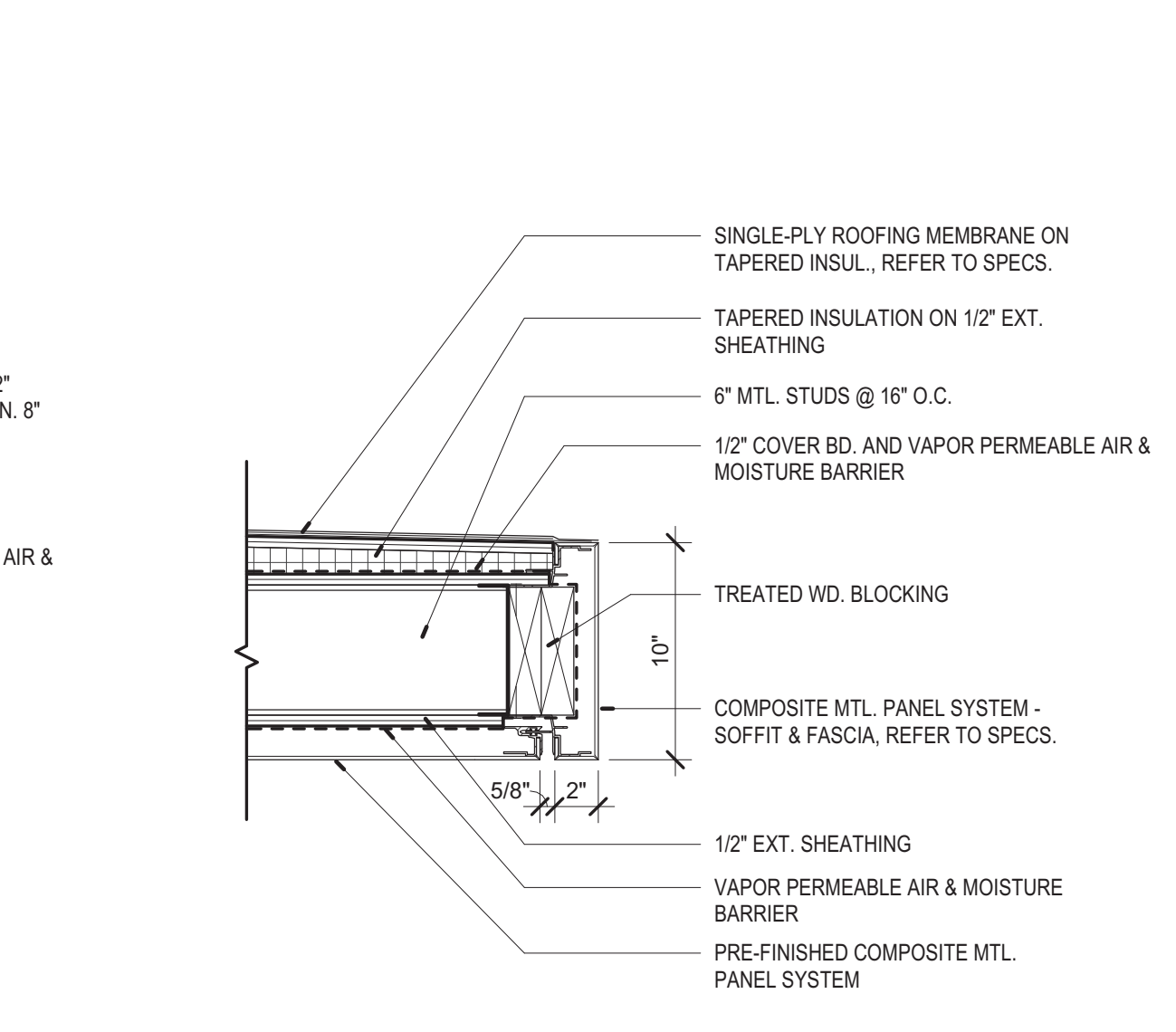
REFERENCE 3 /A-702



11 CANOPY DETAIL

A-803 1 1/2" = 1'-0"

REFERENCE 2 /A-702

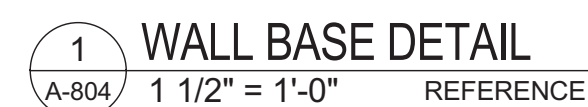


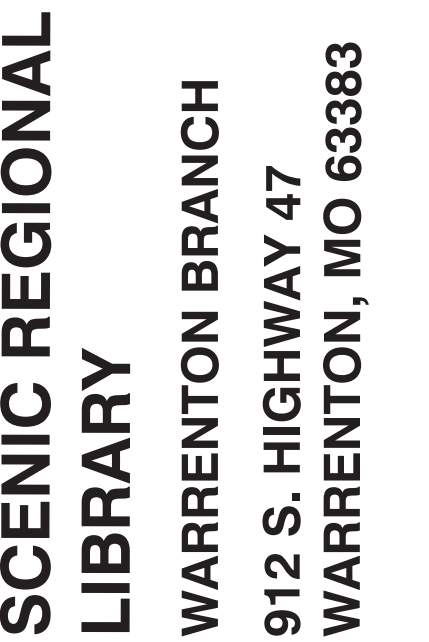
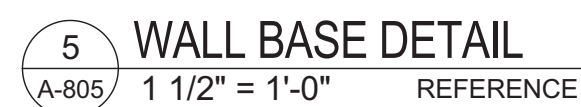
12 CANOPY DETAIL

A-803 1 1/2" = 1'-0"

REFERENCE 2 /A-702

No.	Date	Description
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ARCHITECT OF RECORD:

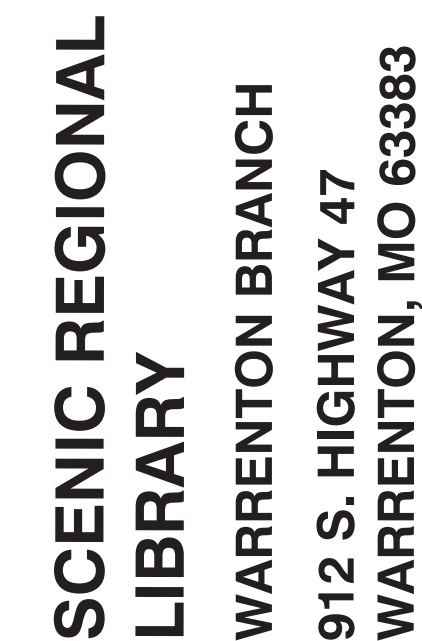
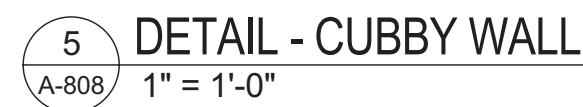
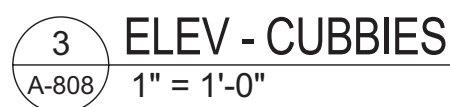
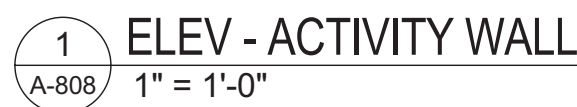
JOHN EDWARD MUELLER
MO ARCHITECTURAL LICENSE A2010039554
MO CERTIFICATE OF AUTHORITY A2014008380

DRAWN BY: **SC/SH**

PROJECT NUMBER: **16-1161.06**

SHEET TITLE:
DETAILS - BUILDING

A-805



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DRAWN BY: **SC/SH**

PROJECT NUMBER: 16-1161.06

SHEET TITLE:
DETAILS - MILLWORK

A-808

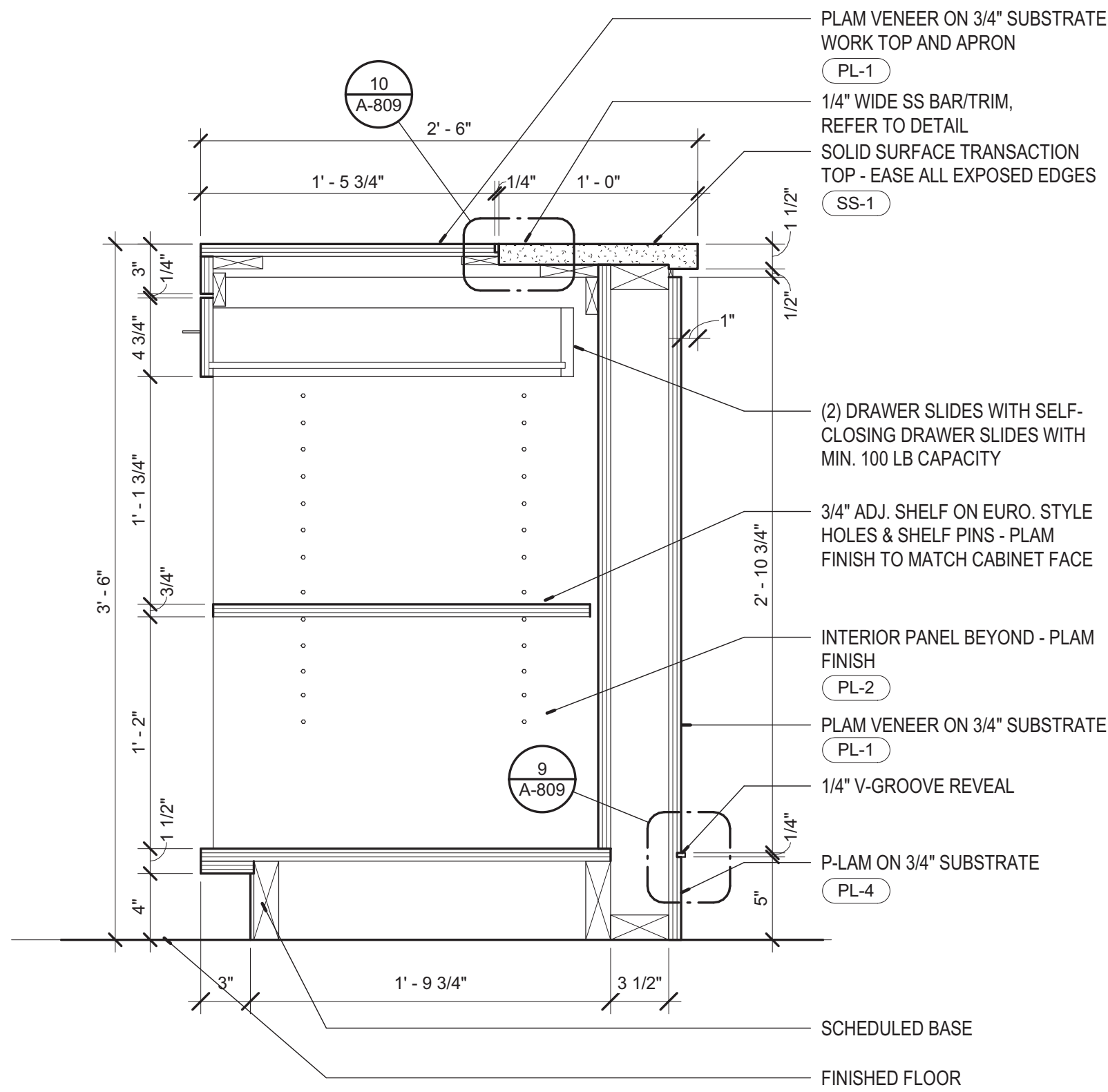
No.	Date	Description
	06/13/17	ISSUED FOR RE-BID

DRAWN BY: SC/SH

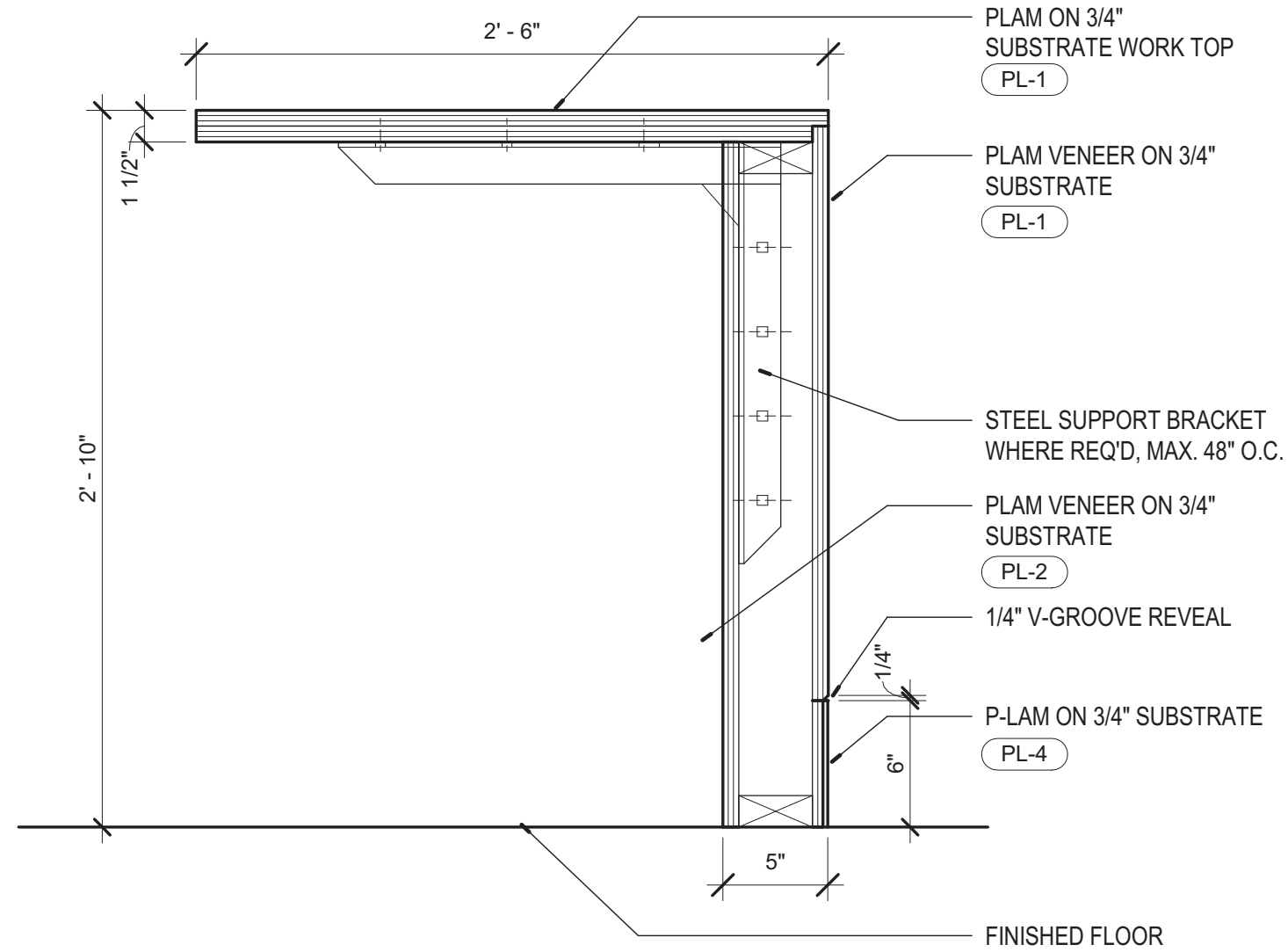
PROJECT NUMBER: 16-1161.06

SHEET TITLE:
DETAILS - MILLWORK

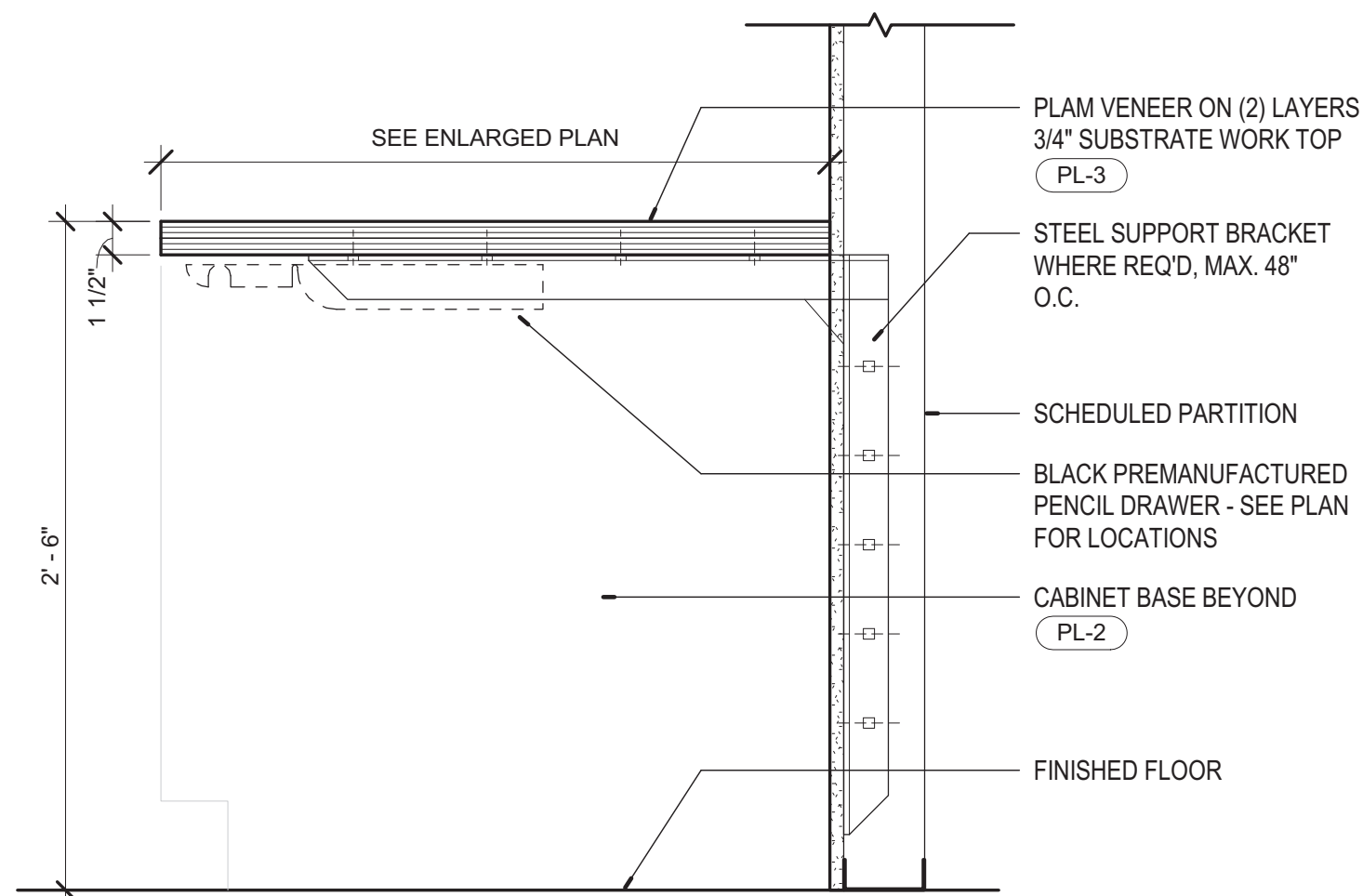
A-809



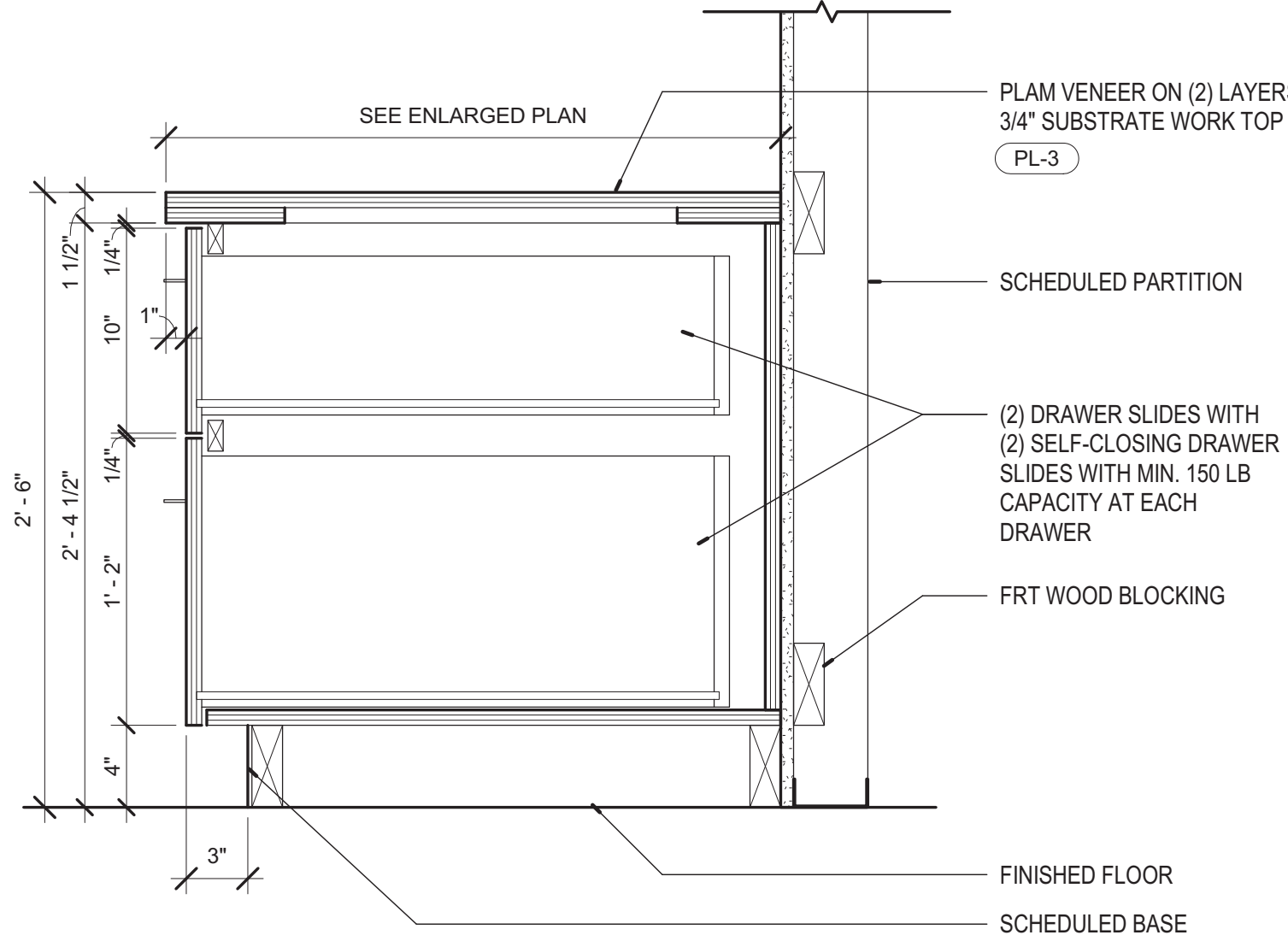
2 DETAIL - CIRCULATION DESK
A-809 1 1/2" = 1'-0" REFERENCE 1 /A-604



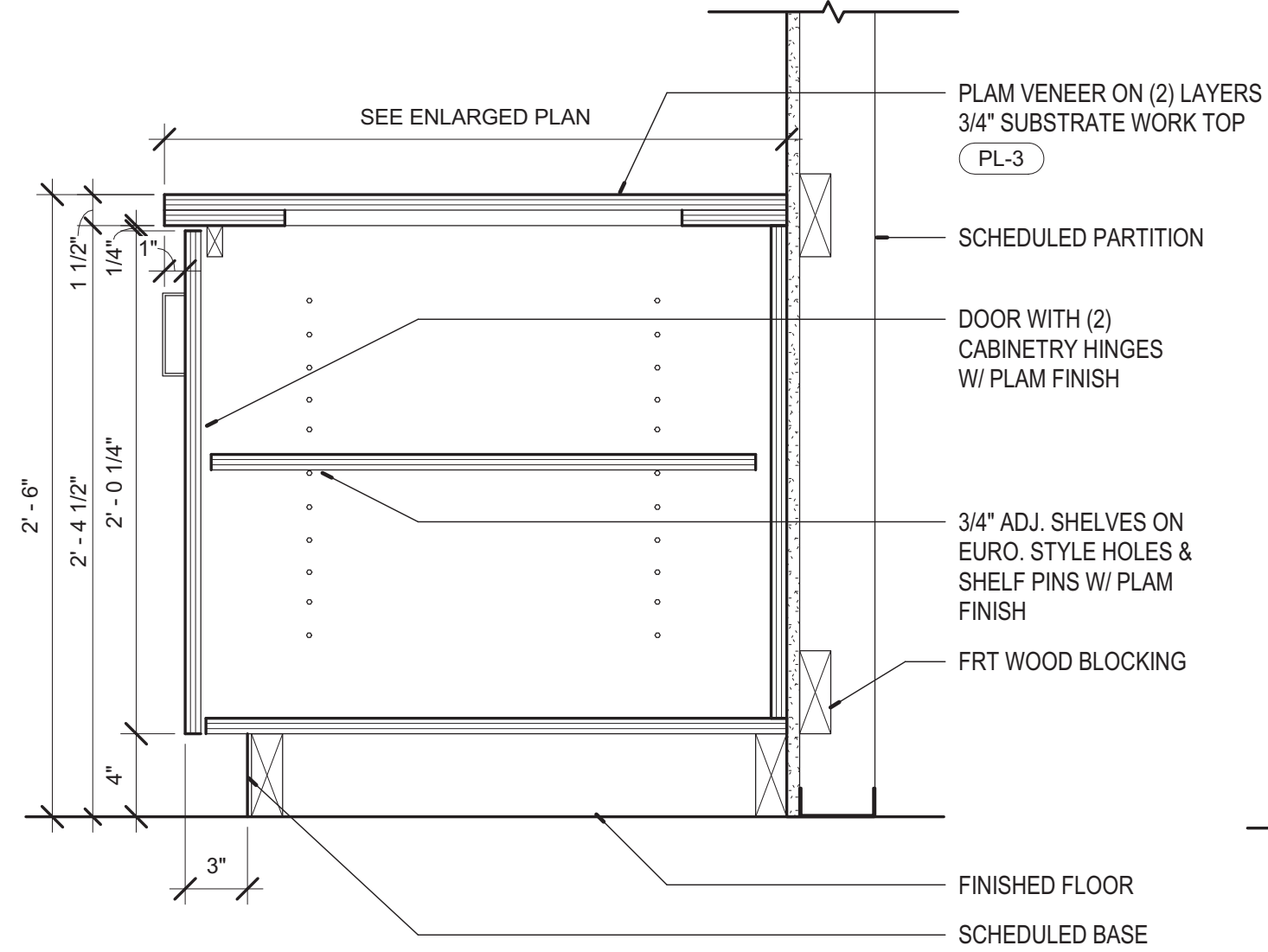
3 DETAIL - CIRCULATION DESK
A-809 1 1/2" = 1'-0" REFERENCE 1 /A-604



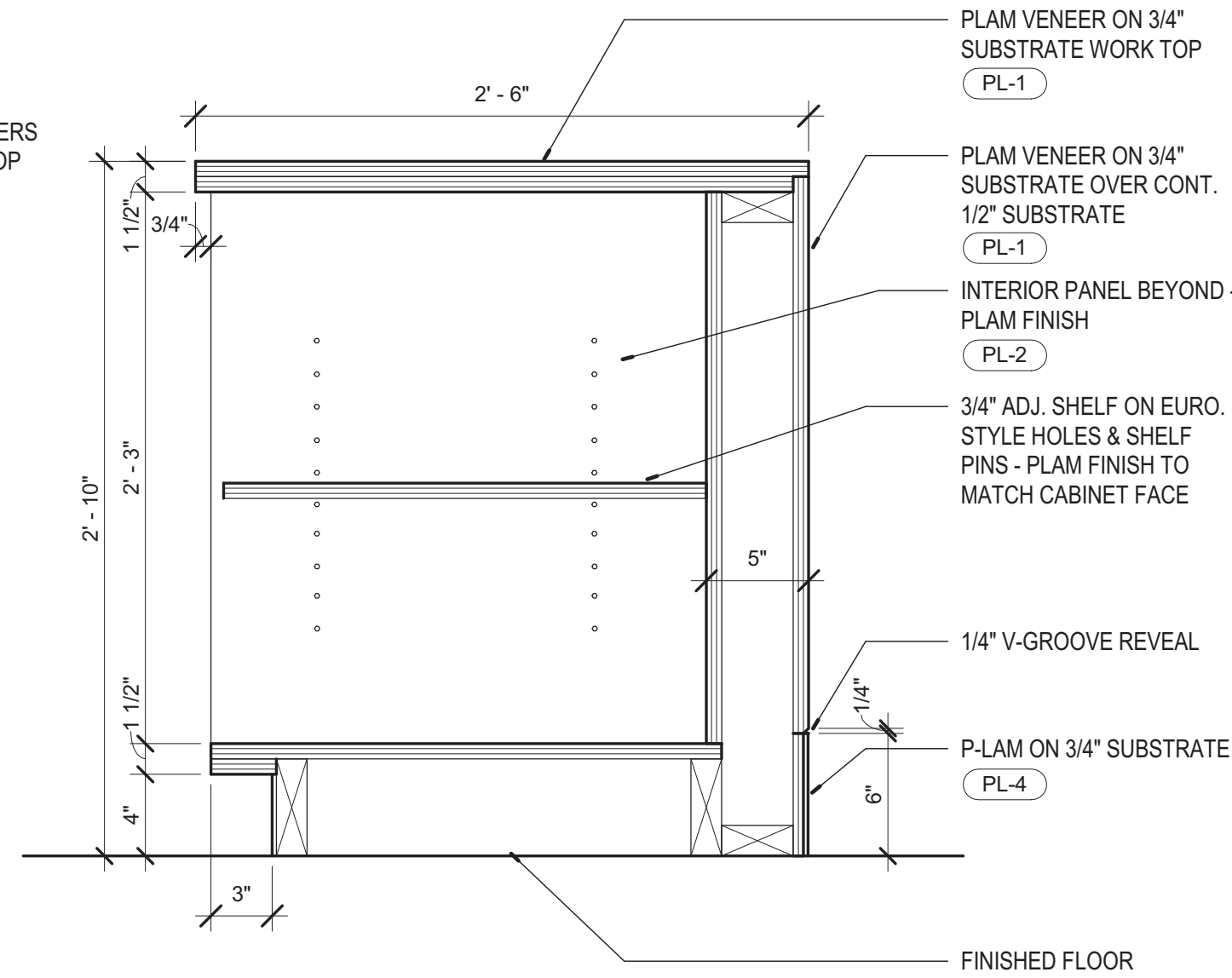
5 DETAIL - CIRCULATION DESK
A-809 1 1/2" = 1'-0" REFERENCE 7 /A-604



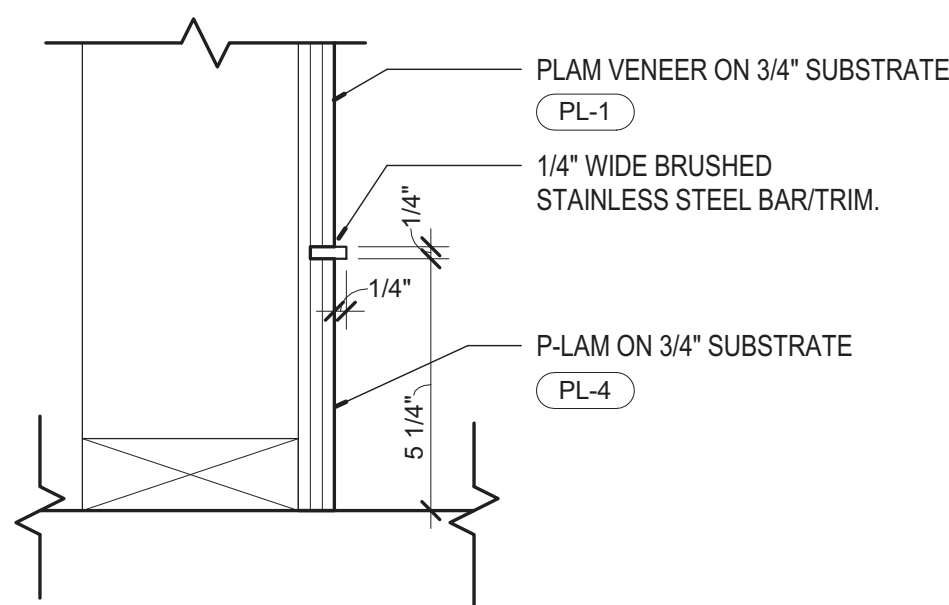
6 DETAIL - CIRCULATION DESK
A-809 1 1/2" = 1'-0" REFERENCE 7 /A-604



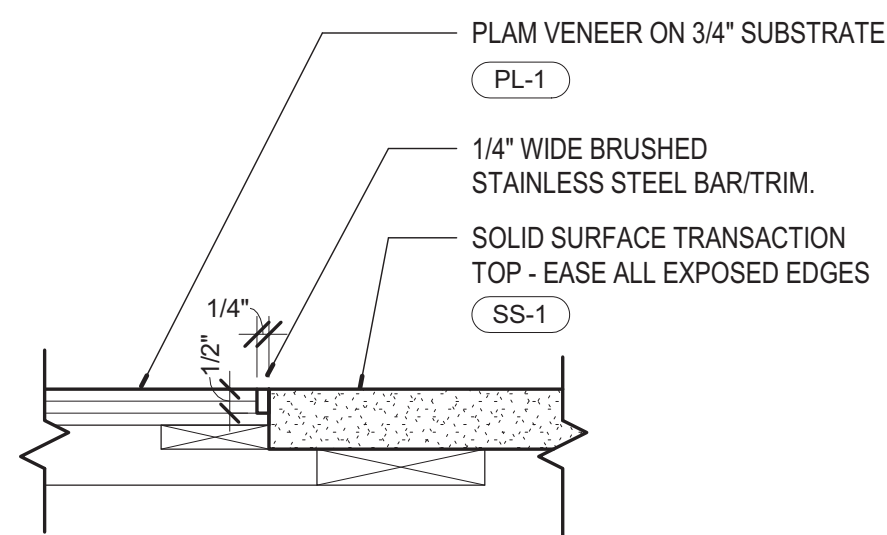
7 DETAIL - CIRCULATION DESK
A-809 1 1/2" = 1'-0" REFERENCE 7 /A-604



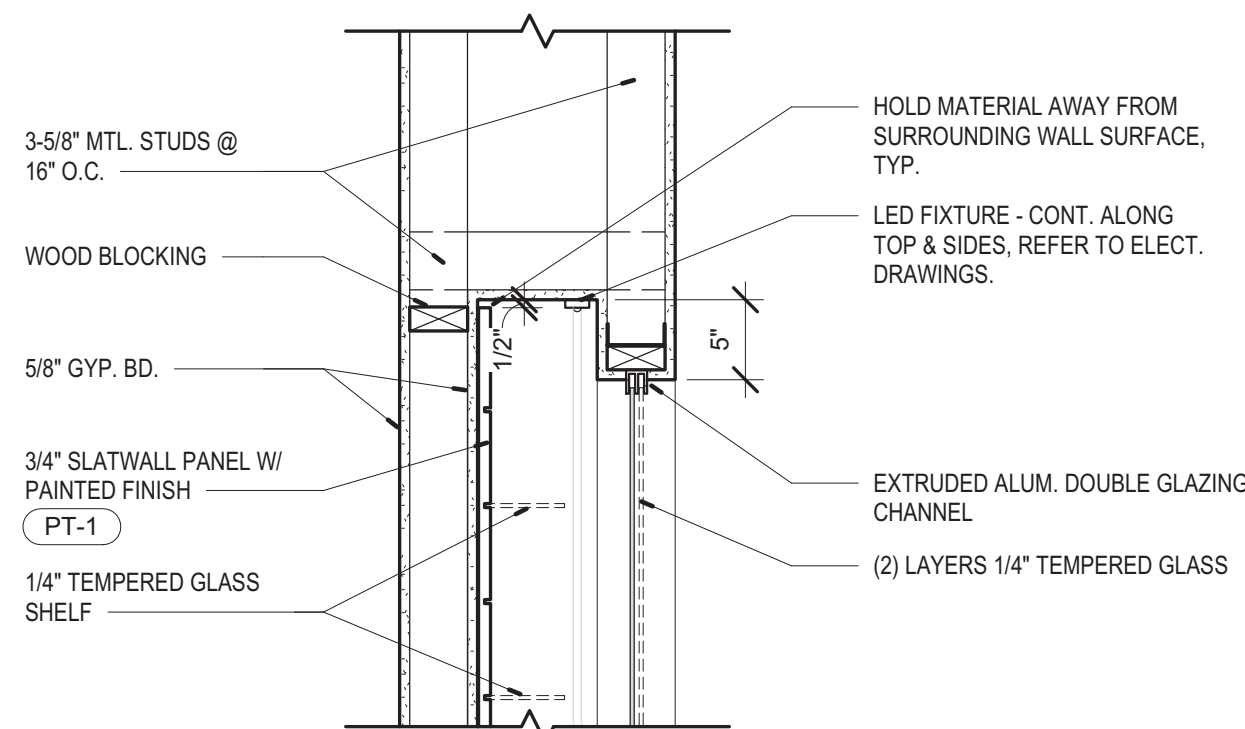
8 DETAIL - CIRCULATION DESK
A-809 1 1/2" = 1'-0" REFERENCE 6 /A-604



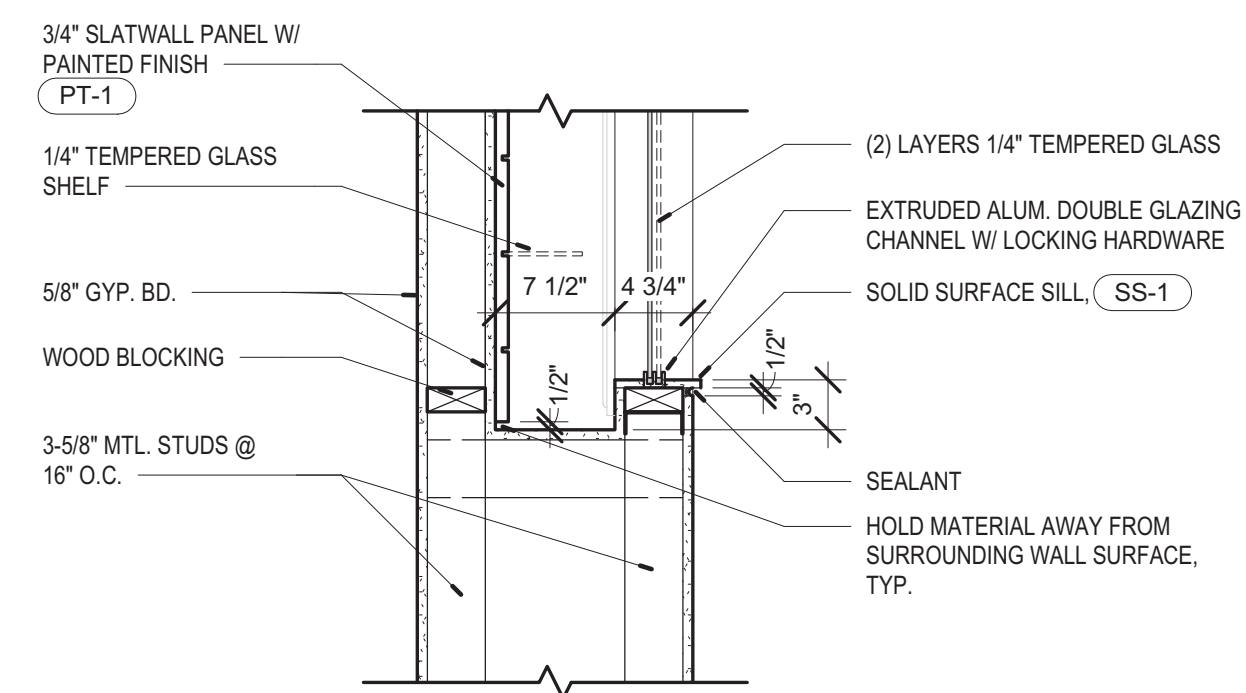
9 DETAIL - CIRCULATION DESK BASE TRIM
A-809 3" = 1'-0" REFERENCE 2 /A-809



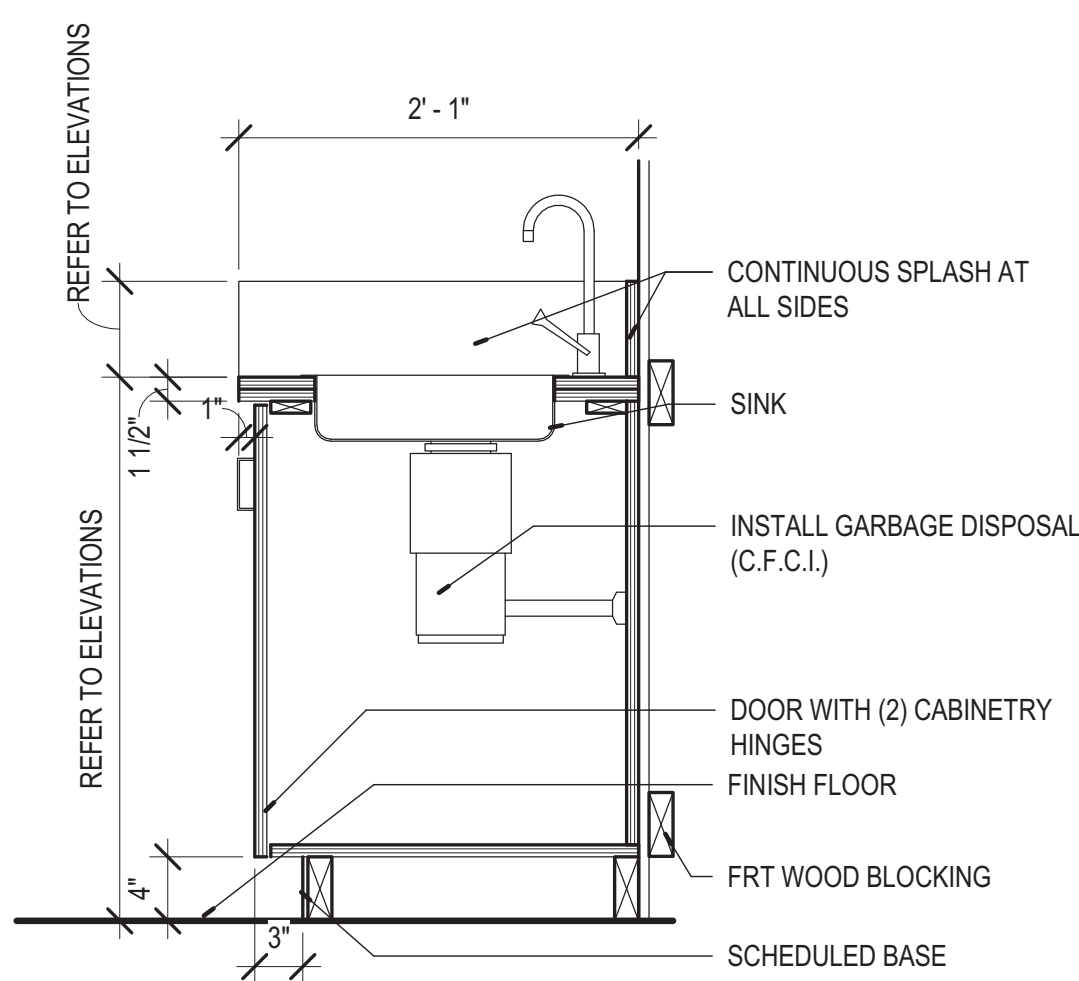
10 DETAIL - CIRCULATION DESK TOP
A-809 3" = 1'-0" REFERENCE 2 /A-809



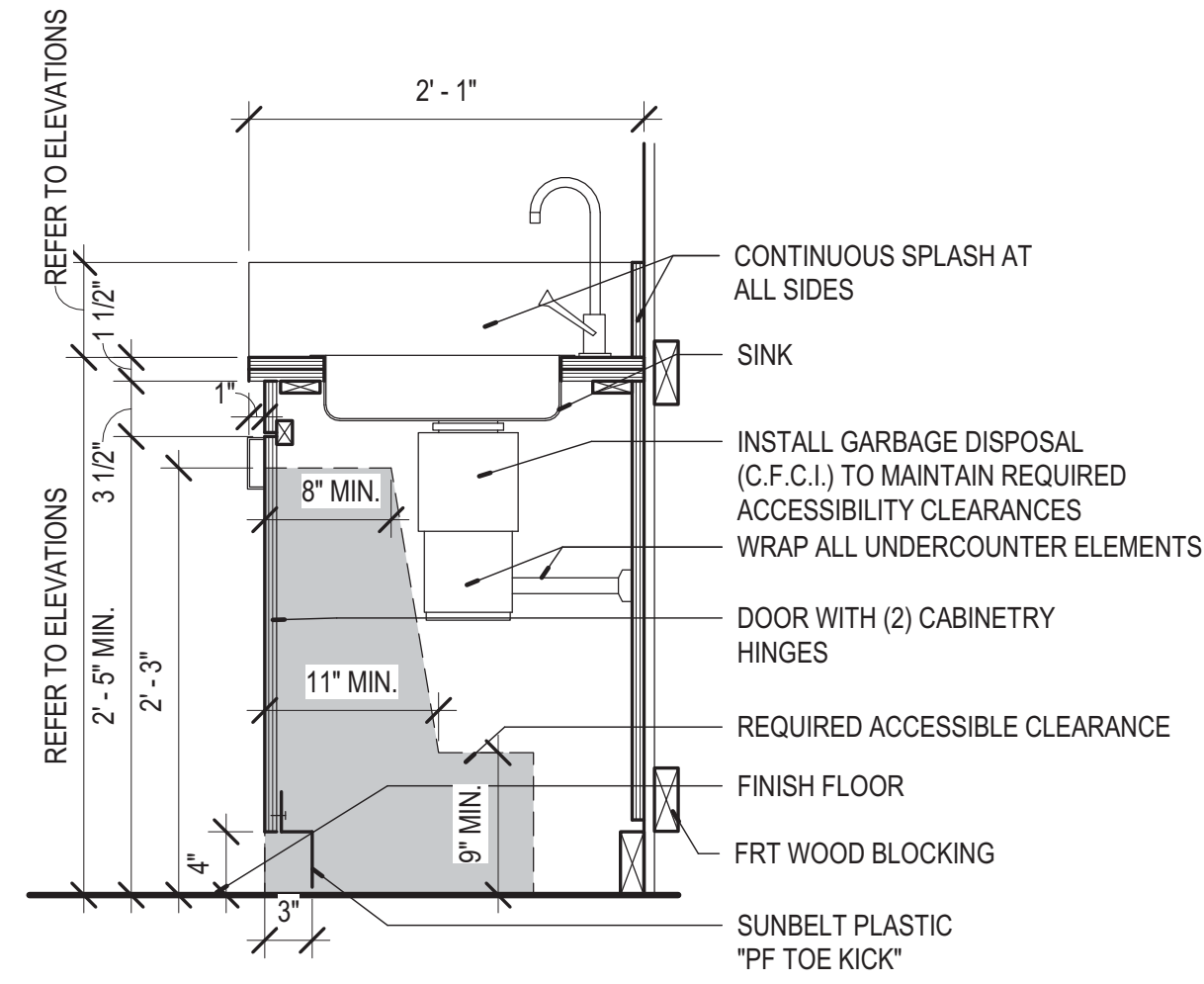
1 DETAIL @ DISPLAY CABINET
A-809 1" = 1'-0"



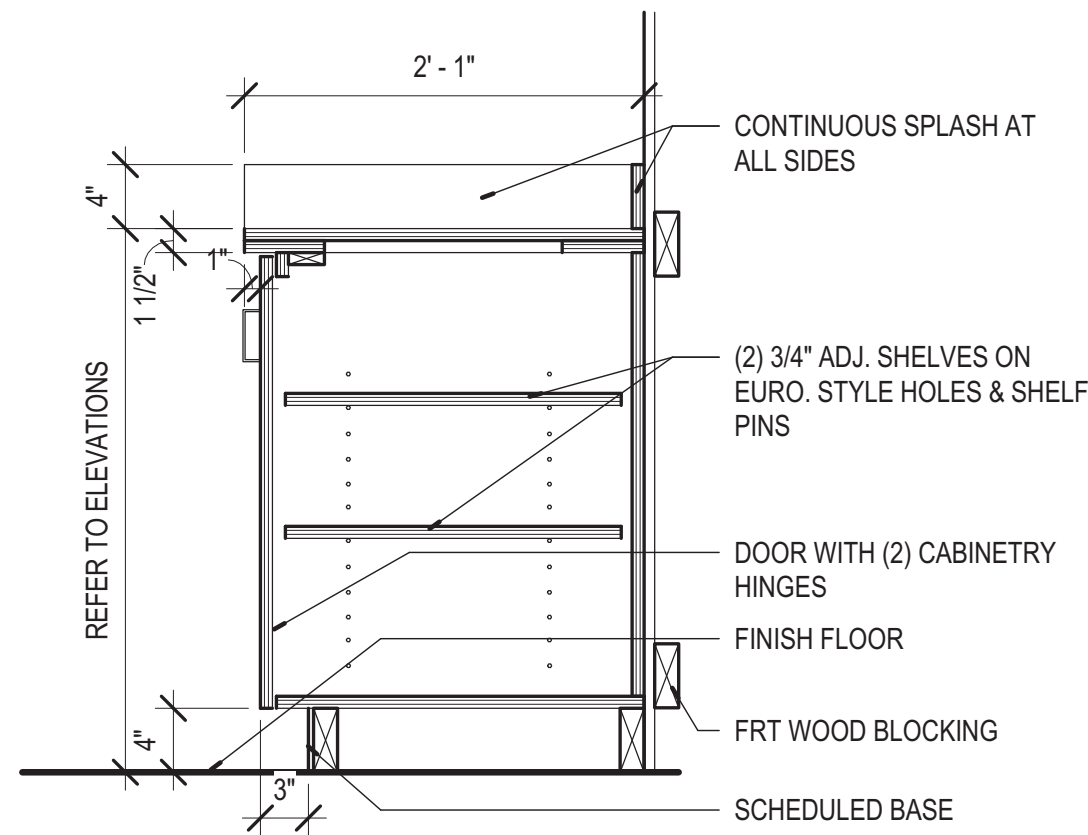
4 DETAIL @ DISPLAY CABINET
A-809 1" = 1'-0"



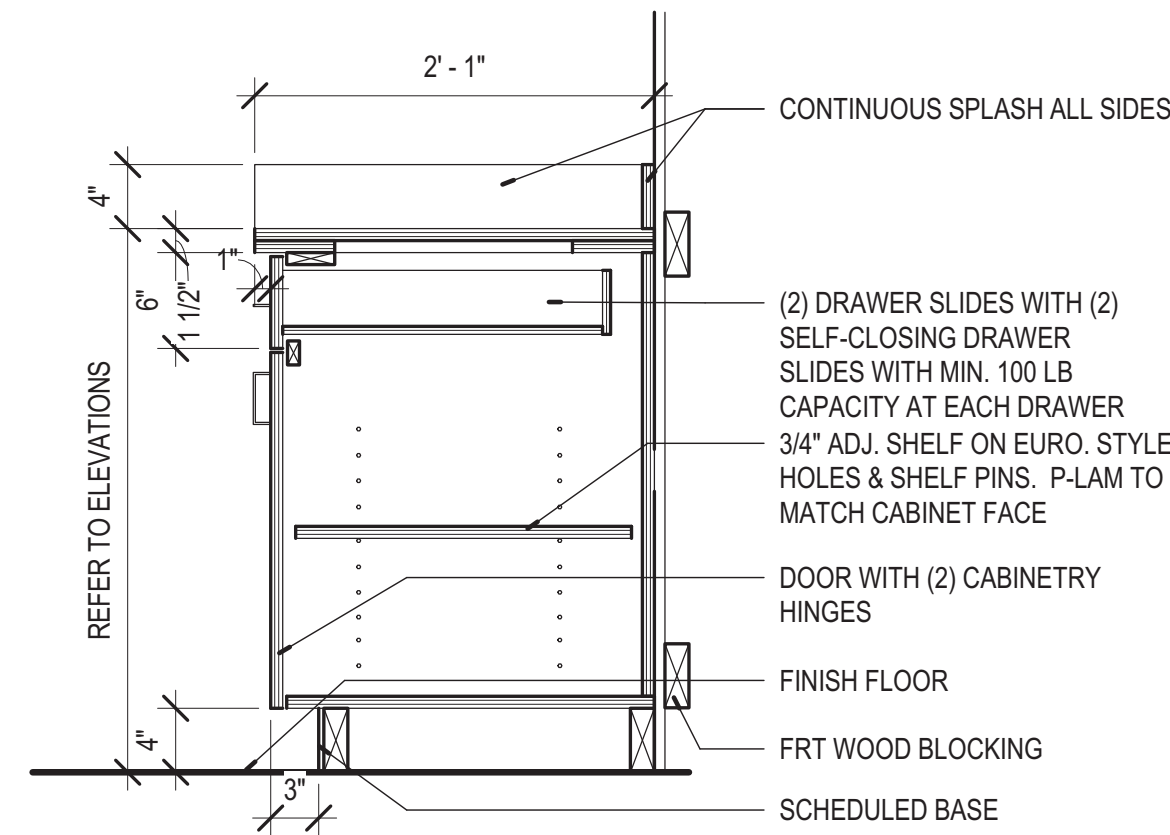
1 DETAIL - BASE CABINET W/NON-COMPLIANT SINK
A-810 1" = 1'-0" REFERENCE 2 /A-603



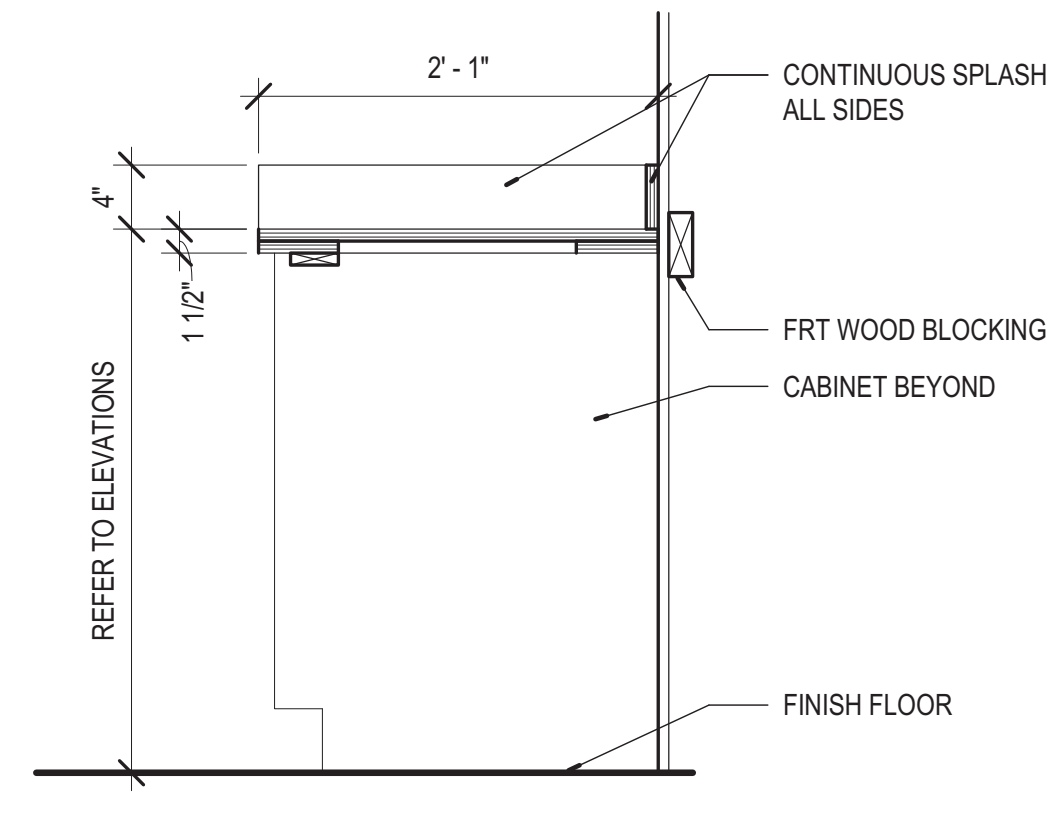
2 DETAIL - BASE CABINET WITH SINK & DISPOSAL
A-810 1" = 1'-0" REFERENCE 5 /A-603



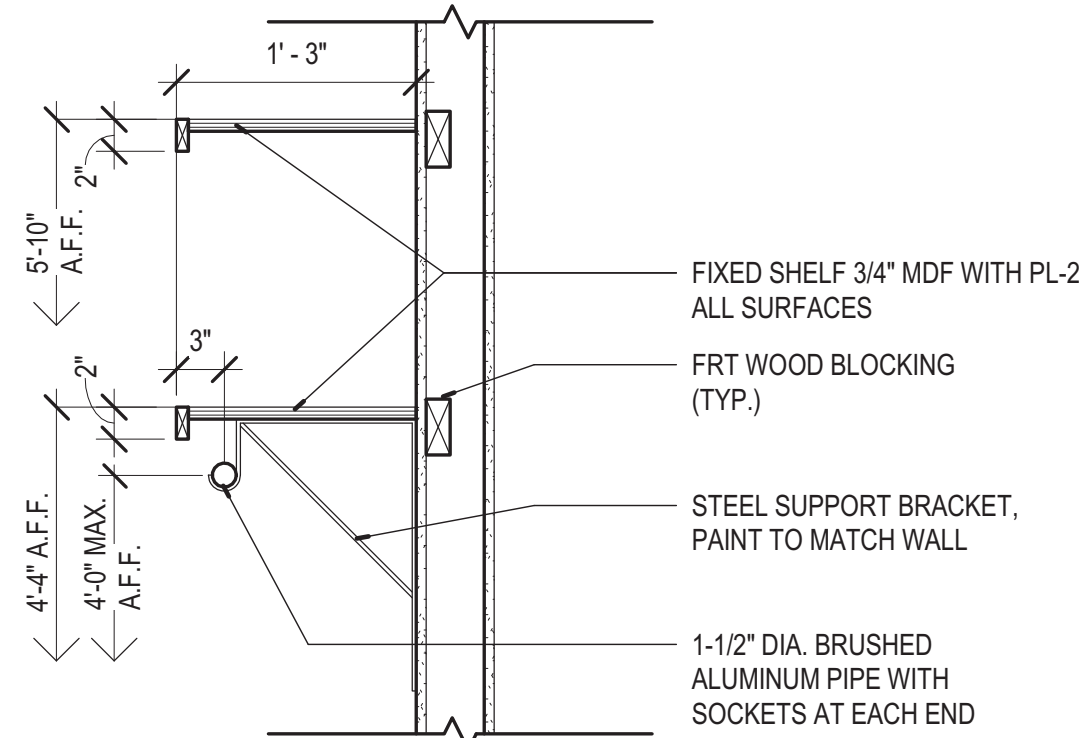
3 DETAIL - BASE CABINET
A-810 1" = 1'-0" REFERENCE 5 /A-603



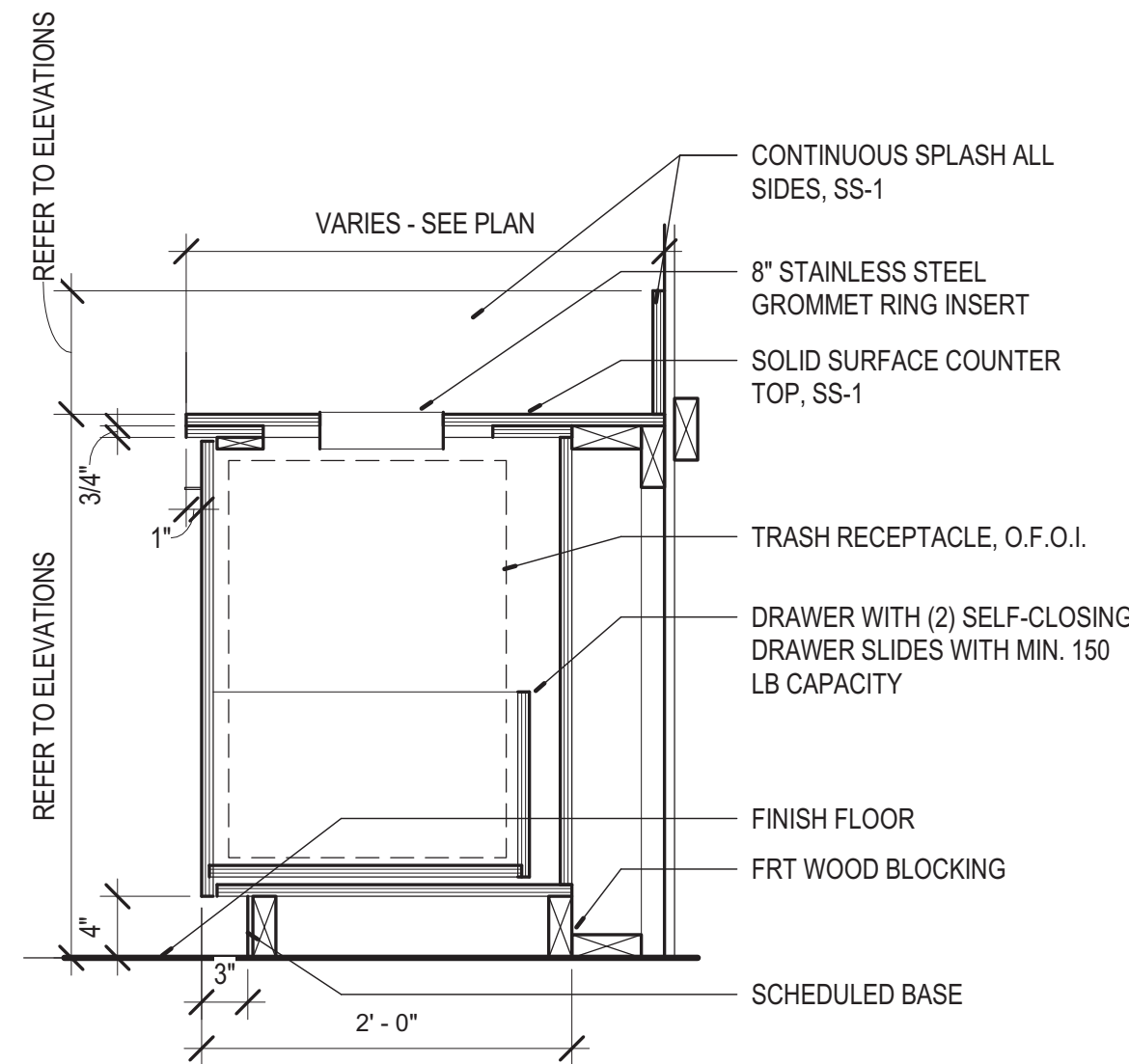
4 DETAIL - BASE CABINET WITH DRAWER (1)
A-810 1" = 1'-0" REFERENCE 2 /A-603



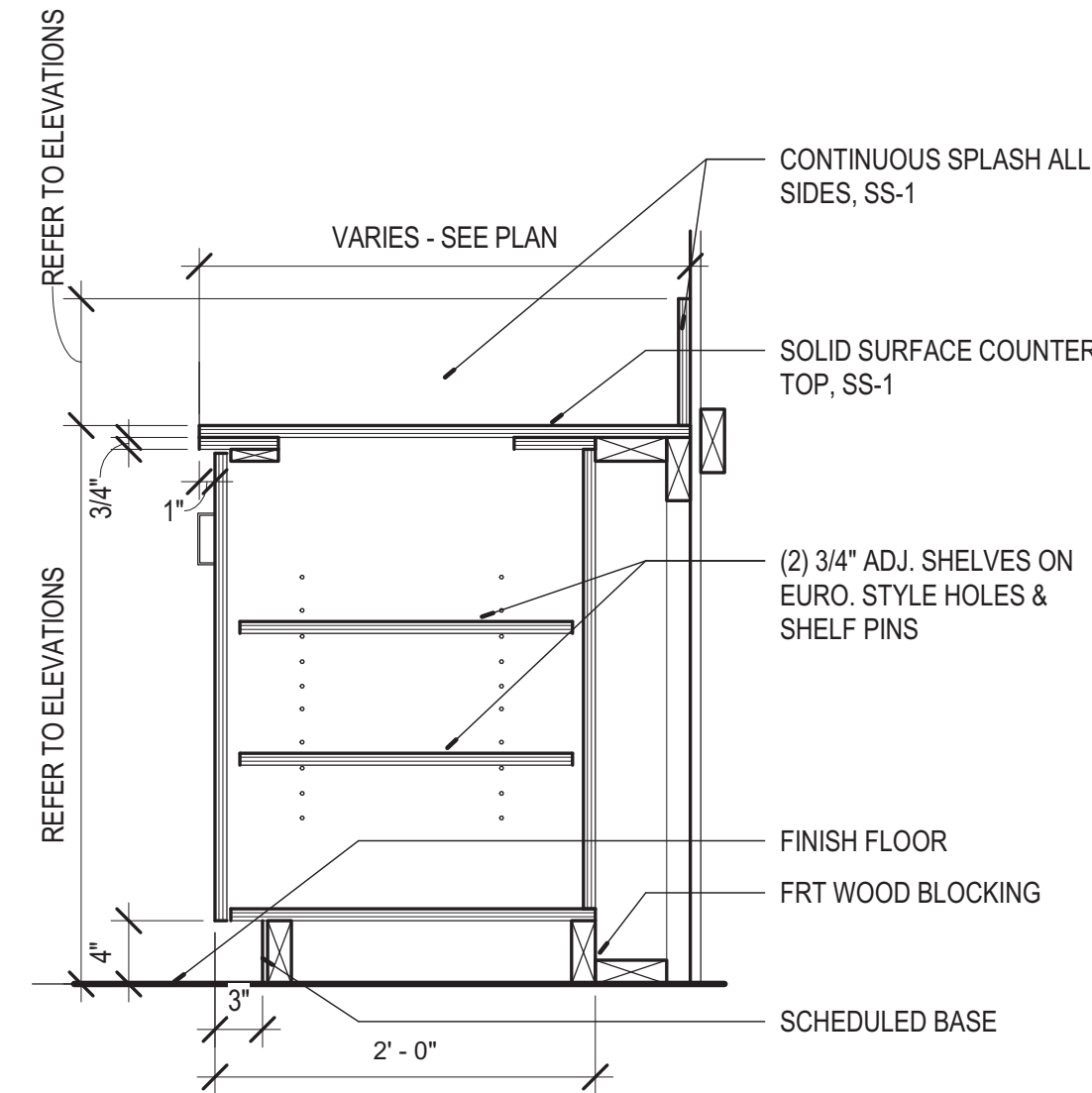
5 DETAIL - BASE CABINET - OPEN
A-810 1" = 1'-0" REFERENCE 2 /A-603



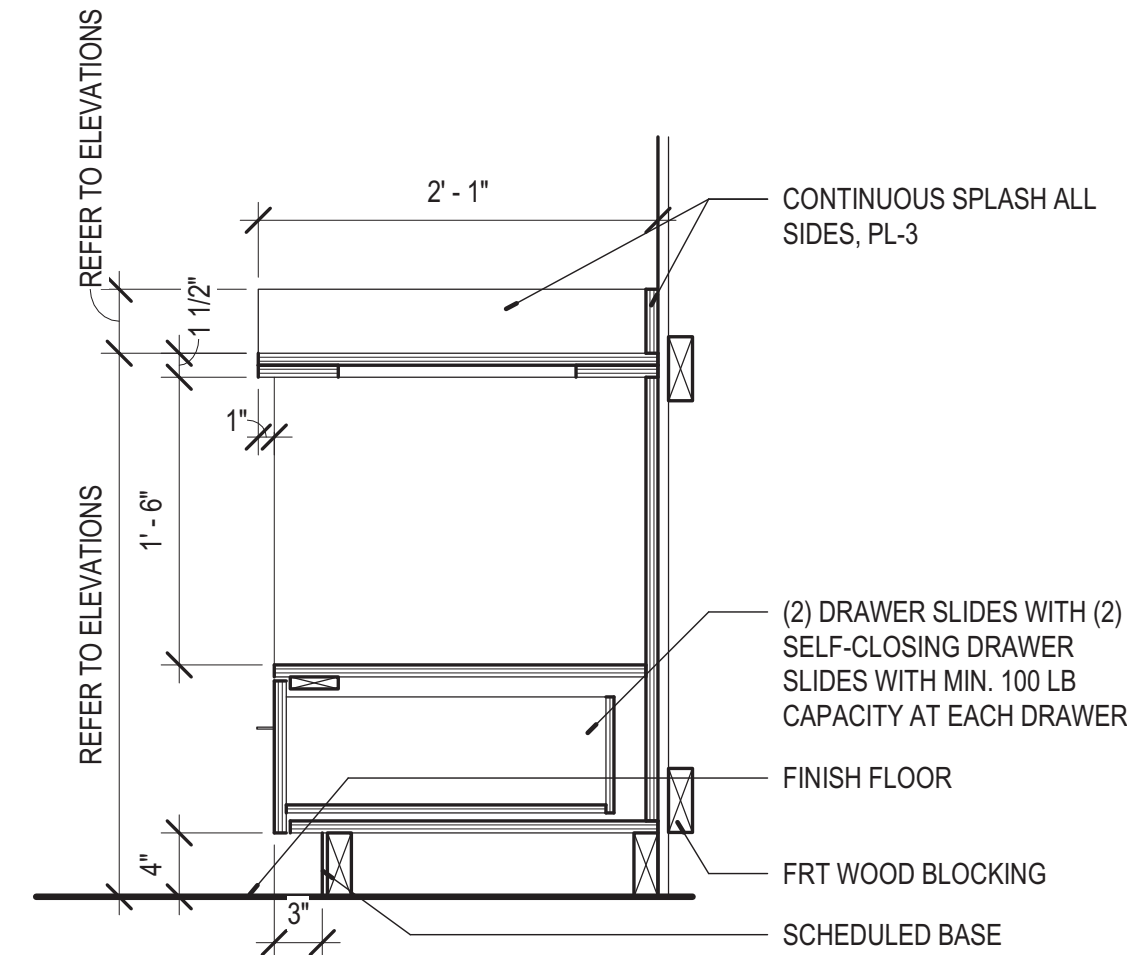
6 DETAIL - COAT ROD & SHELF
A-810 1" = 1'-0" REFERENCE 2 /A-603



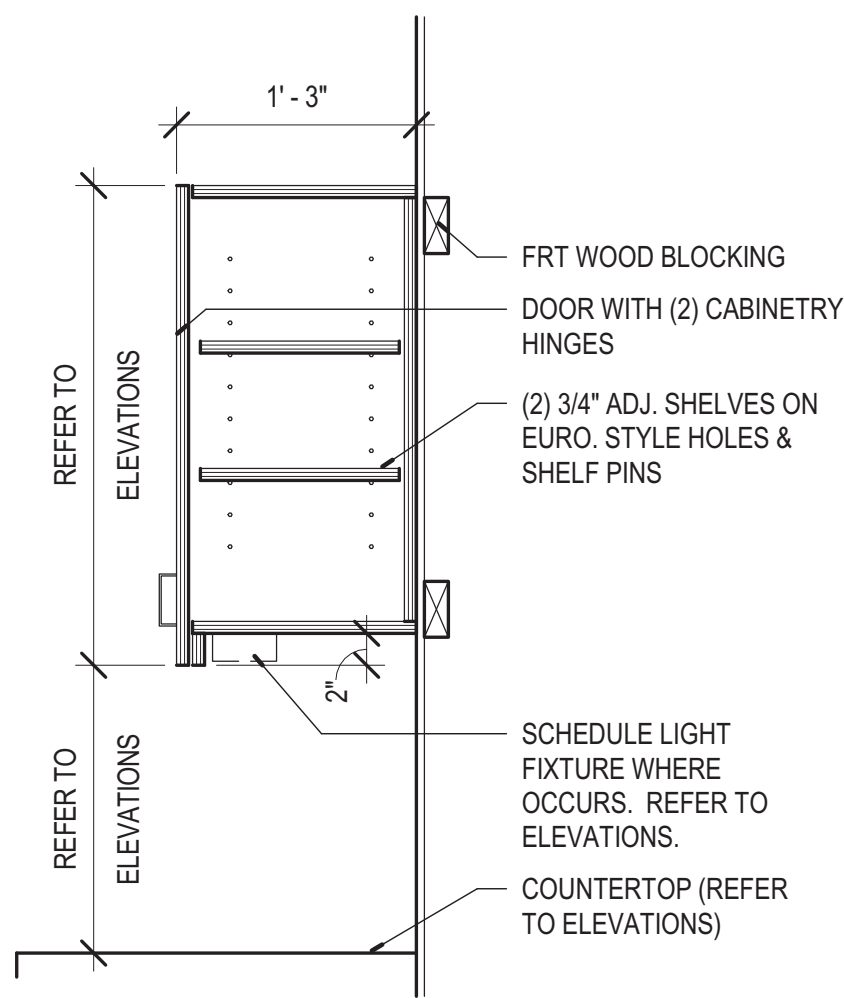
8 DETAIL - BASE CABINET
A-810 1" = 1'-0" REFERENCE 6 /A-603



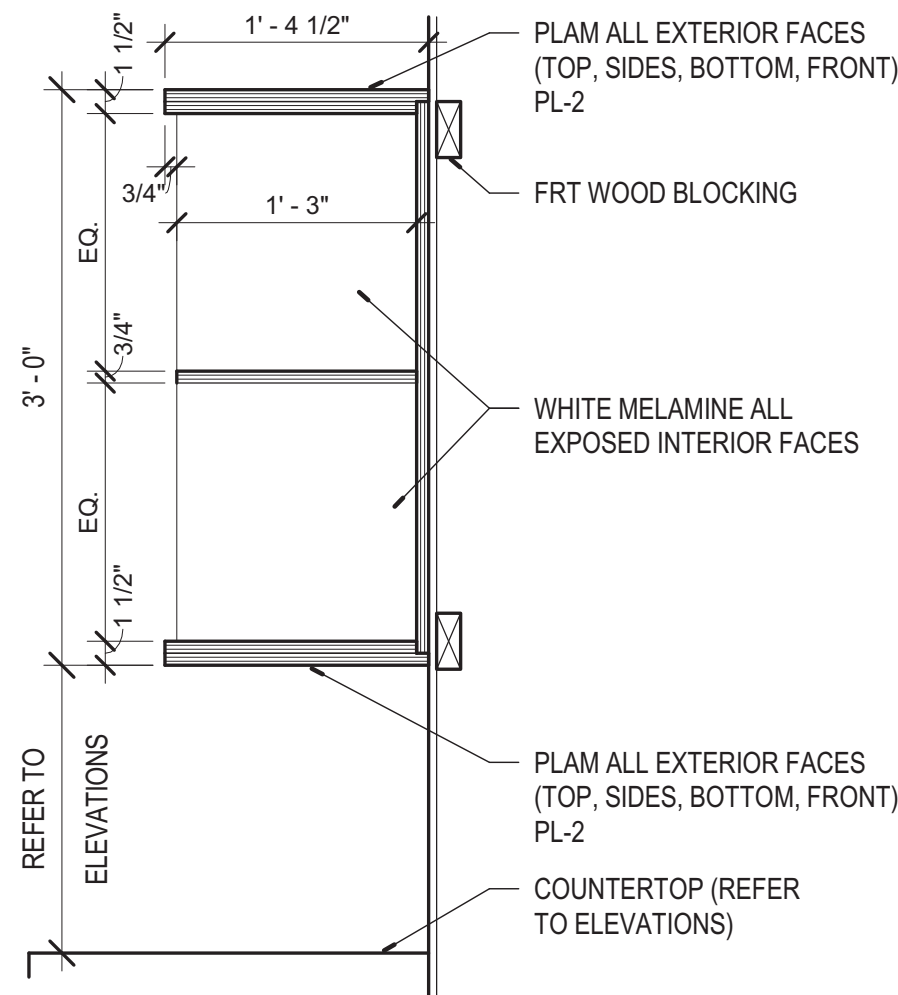
9 DETAIL - BASE CABINET
A-810 1" = 1'-0" REFERENCE 6 /A-603



10 DETAIL - BASE CABINET WITH OPEN SHELF & DRAWER
A-810 1" = 1'-0" REFERENCE 5 /A-603

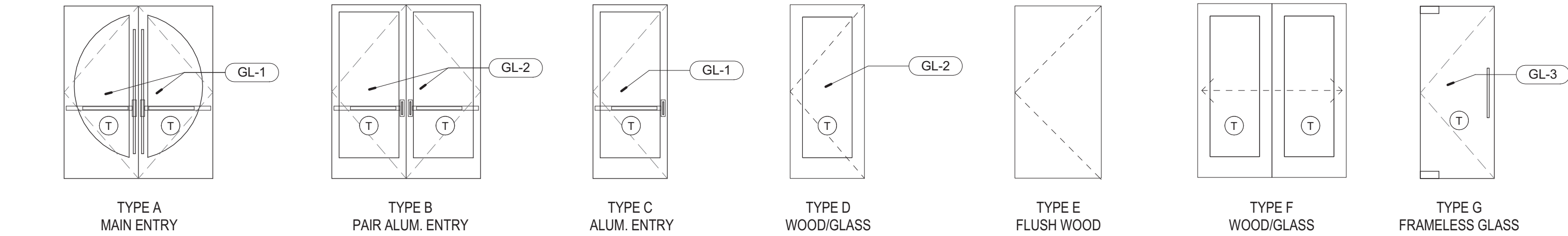


11 DETAIL - UPPER CABINET
A-810 1" = 1'-0" REFERENCE 2 /A-603

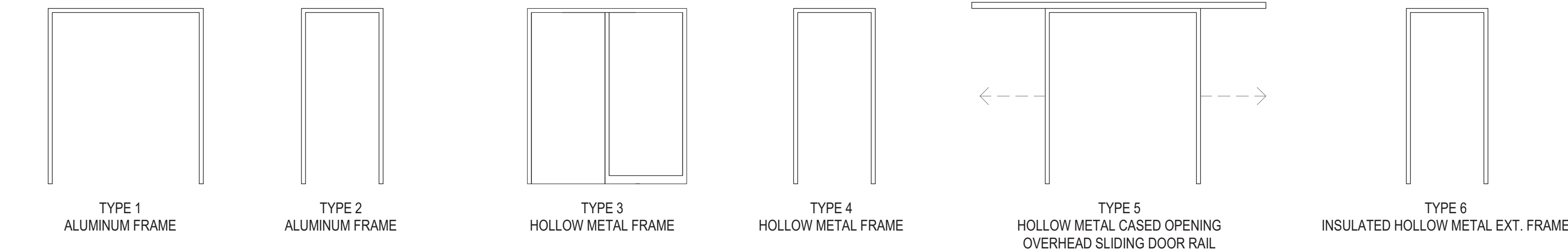


12 DETAIL - UPPER CABINET
A-810 1" = 1'-0" REFERENCE 7 /A-604

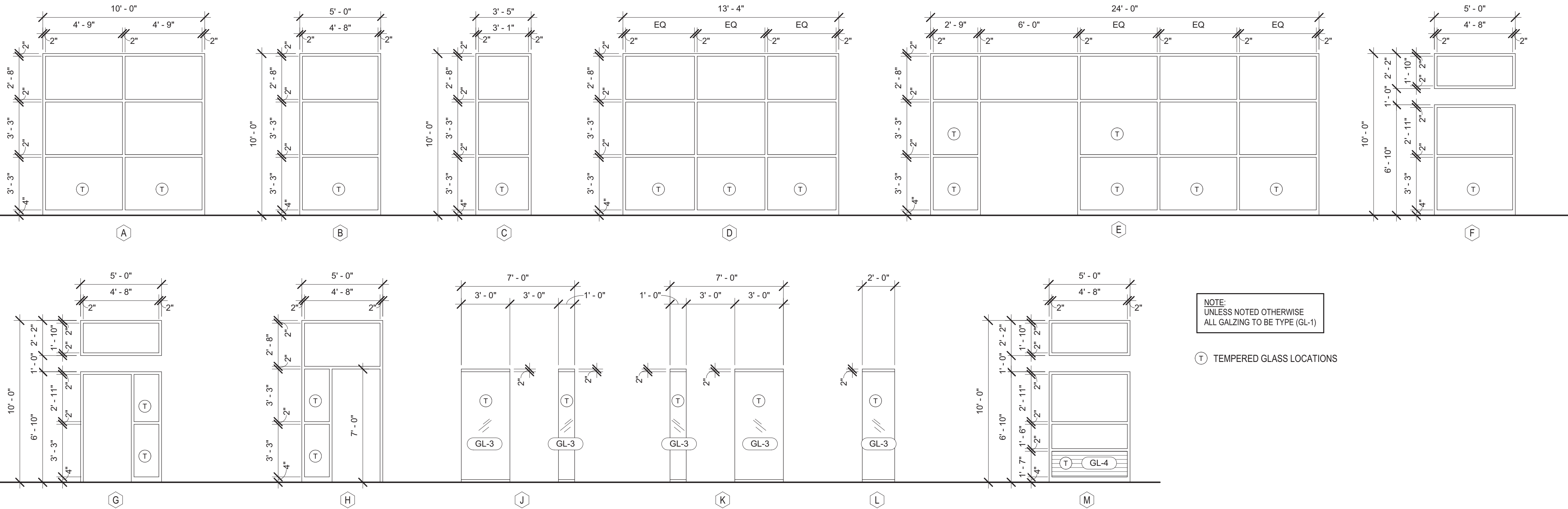
No.	Date	Description
	06/13/17	ISSUED FOR RE-BID



DOOR TYPES
1/4" = 1'-0"



FRAME TYPES
1/4" = 1'-0"



WINDOW TYPES
1/4" = 1'-0"

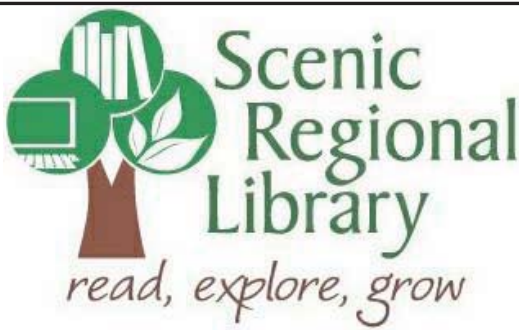
DOOR SCHEDULE										
DOOR NUMBER	WIDTH	HEIGHT	DOOR THICKNESS	DOOR TYPE	DOOR MATERIAL	FRAME		HDWR. GROUPS	FIRE RATING	REMARKS
						TYPE	FINISH			
600A	PR 3' - 0"	7' - 0"	1 3/4"	A	ALUM	1	PRE-FINISHED	1.0 AO		CUSTOM COLOR TO MATCH SAMPLE, SEE SPECS.
600B	PR 3' - 0"	7' - 0"	1 3/4"	B	ALUM	1	PRE-FINISHED	4.0 AO		
601	3' - 0"	7' - 0"	1 3/4"	D	WD-1/GL	3	PT-3	6.0		
603	3' - 6"	7' - 0"	1 3/4"	E	WD-1	4	PT-3	10.0	45 MINUTE	
606A	3' - 0"	7' - 0"	1 3/4"	C	ALUM	2	PRE-FINISHED	2.0		
606B	PR 3' - 0"	7' - 0"	1 3/4"	F	WD-1	5	PT-3	5.0		PAIR OF SLIDERS ON RAIL.
607	3' - 0"	6' - 8"	1 3/4"	C	ALUM	2	PRE-FINISHED	2.0		
611	EXIST.	EXIST.	1 3/4"	EXIST.	EXIST.	EXIST.	PT-3	N/A		EXISTING FRAME, DOOR AND HARDWARE TO REMAIN.
612	3' - 0"	7' - 0"	1/2"	G	GL	N/A	N/A	14.0		FLOOR AND HEAD PIVOTS, SEE SPECS.
613	3' - 0"	7' - 0"	1/2"	G	GL	N/A	N/A	14.0		FLOOR AND HEAD PIVOTS, SEE SPECS.
614	3' - 0"	7' - 0"	1 3/4"	E	WD-1	4	PT-3	11.0		
617	3' - 0"	7' - 0"	1 3/4"	E	WD-1	4	PT-3	7.0		NEW DOOR AND HARDWARE IN EXISTING FRAME.
618	3' - 0"	7' - 0"	1 3/4"	E	WD-1	4	PT-3	7.0		NEW DOOR AND HARDWARE IN EXISTING FRAME.
619	3' - 0"	7' - 0"	1 3/4"	E	WD-1	4	PT-3	9.0		SEE NOTE 1 BELOW, INSTALL RESTROOM SIDE.
621A	3' - 0"	7' - 0"	1 3/4"	E	WD-1	4	PT-3	13.0		
621B	3' - 0"	7' - 0"	1 3/4"	E	WD-1	4	PT-3	13.0		NEW DOOR AND HARDWARE IN EXISTING FRAME.
622A	3' - 0"	7' - 0"	1 3/4"	E	WD-1	4	PT-3	13.0		SEE NOTE 1 BELOW, INSTALL RESTROOM SIDE.
622B	3' - 0"	7' - 0"	1 3/4"	E	WD-1	4	PT-3	13		NEW DOOR AND HARDWARE IN EXISTING FRAME.
623	EXIST.	EXIST.	1 3/4"	EXIST.	EXIST.	EXIST.	PT-3	N/A		EXISTING FRAME, DOOR AND HARDWARE TO REMAIN.
625	3' - 0"	7' - 0"	1 3/4"	E	WD-1	4	PT-3	10.0	45 MINUTE	
626	EXIST.	EXIST.	1 3/4"	EXIST.	EXIST.	EXIST.	PT-3	N/A		EXISTING FRAME, DOOR AND HARDWARE TO REMAIN.
627	3' - 0"	7' - 0"	1 3/4"	E	WD-1	4	PT-3	9.0		
628	EXIST.	EXIST.	1 3/4"	EXIST.	EXIST.	EXIST.	PT-3	N/A		EXISTING FRAME, DOOR AND HARDWARE TO REMAIN.

DOOR HARDWARE NOTES:

- PROVIDE FOOT OPERATED DOOR OPENER, STEPnPULL, IN SILVER FINISH FOR THIS DOOR.

NOTE:
UNLESS NOTED OTHERWISE
ALL GALZING TO BE TYPE (GL-1)

Ⓙ TEMPERED GLASS LOCATIONS



SCENIC REGIONAL
LIBRARY
WARRENTON BRANCH
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WARRENTON, MO 63383



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MO CERTIFICATE OF AUTHORITY A2014008380

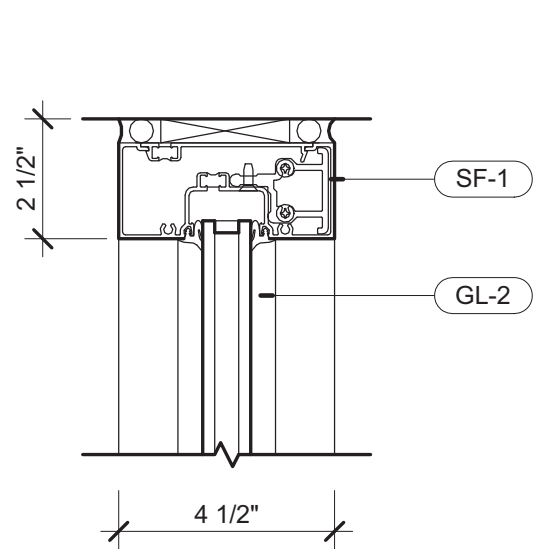
No.	Date	Description
	06/13/17	ISSUED FOR RE-BID

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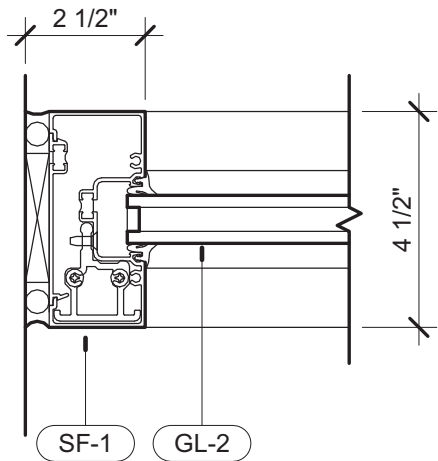
PROJECT NUMBER: 16-1161.06

SHEET TITLE:
DOOR SCHEDULE / DOOR,
FRAME AND WINDOW TYPES

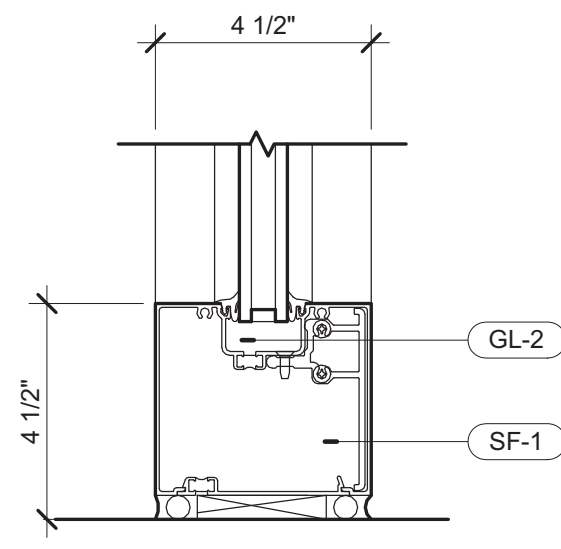
A-901



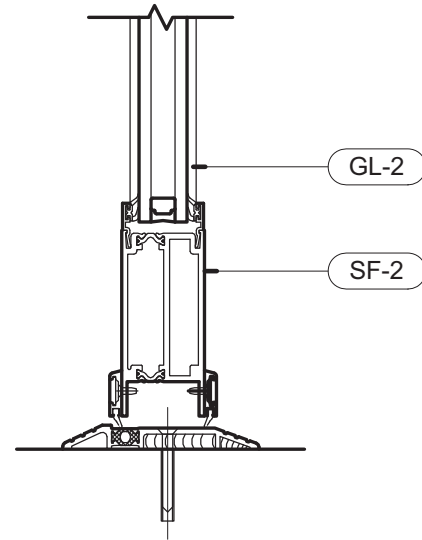
1 HEAD MULLION
A-902 3" = 1'-0"



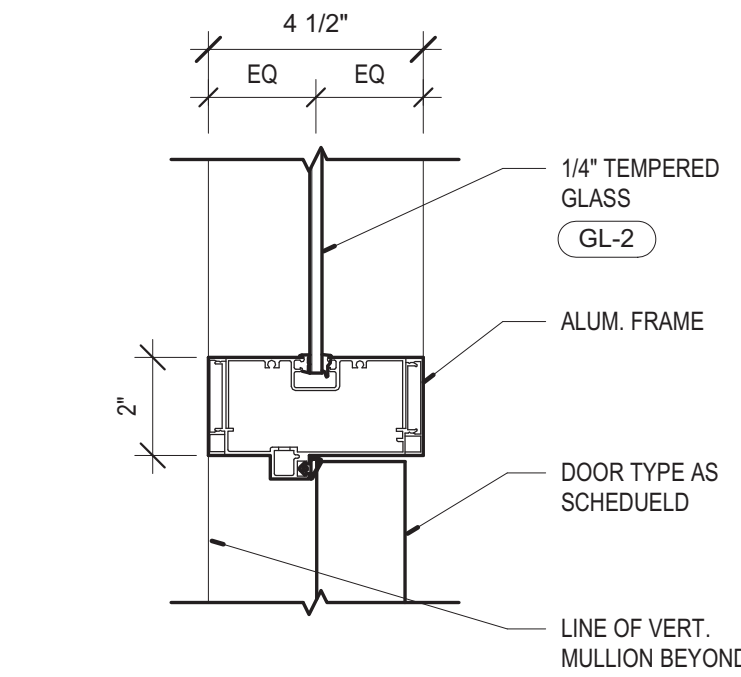
2 JAMB MULLION
A-902 3" = 1'-0"



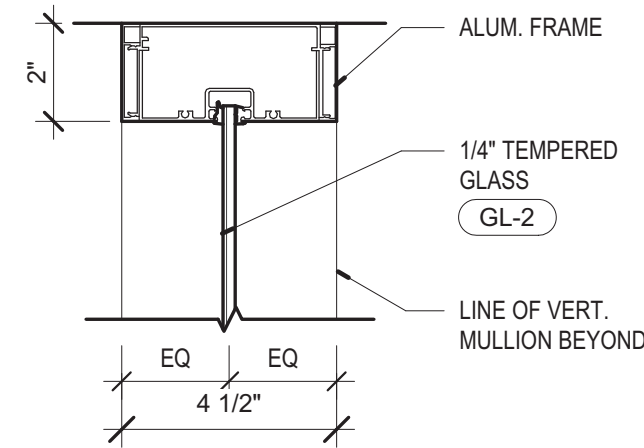
3 SILL MULLION
A-902 3" = 1'-0"



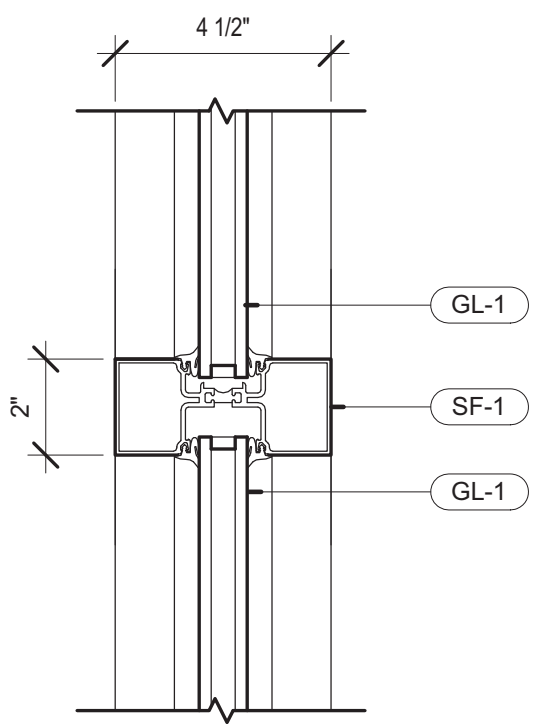
4 DOOR SILL
A-902 3" = 1'-0"



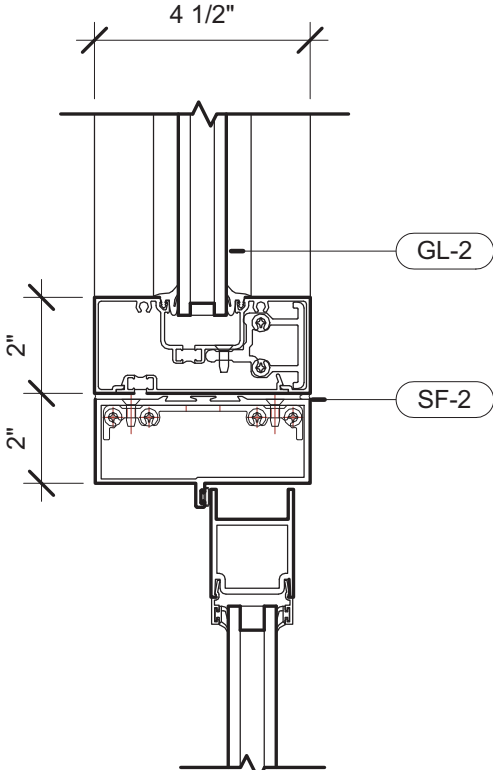
5 MULLION / DOOR JAMB
A-902 3" = 1'-0"



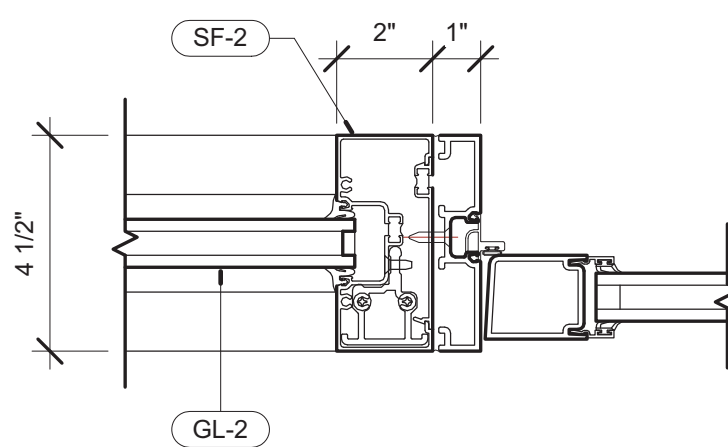
6 MULLION / DOOR JAMB
A-902 3" = 1'-0"



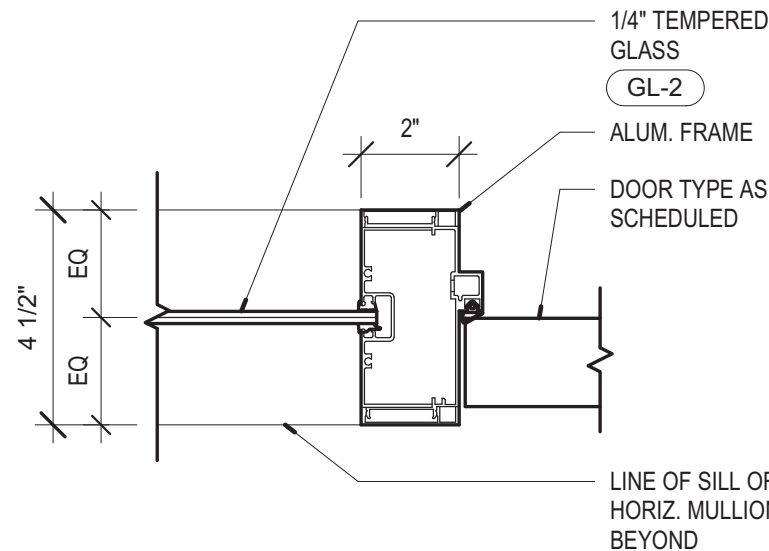
7 INNER MULLION
A-902 3" = 1'-0"



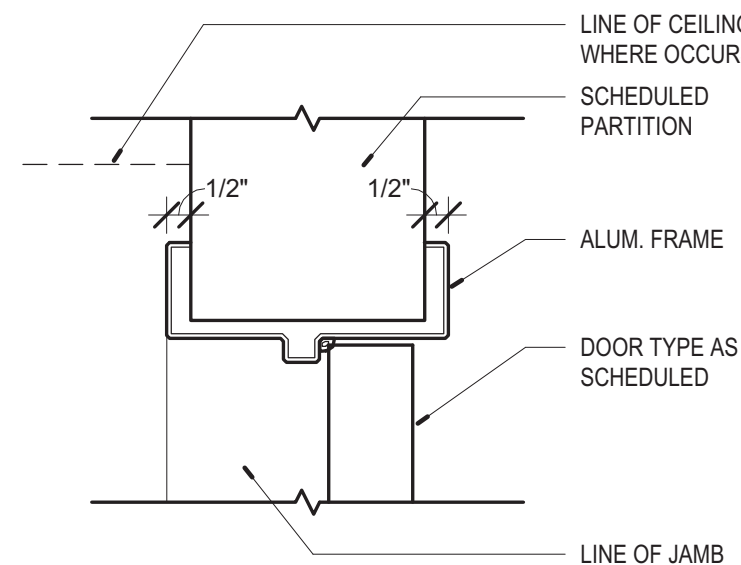
8 INNER MULLION / DOOR HEAD
A-902 3" = 1'-0"



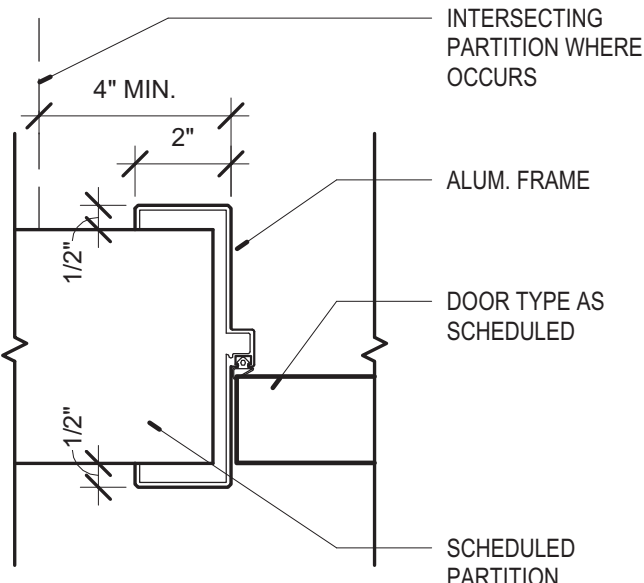
9 INNER MULLION / DOOR JAMB
A-902 3" = 1'-0"



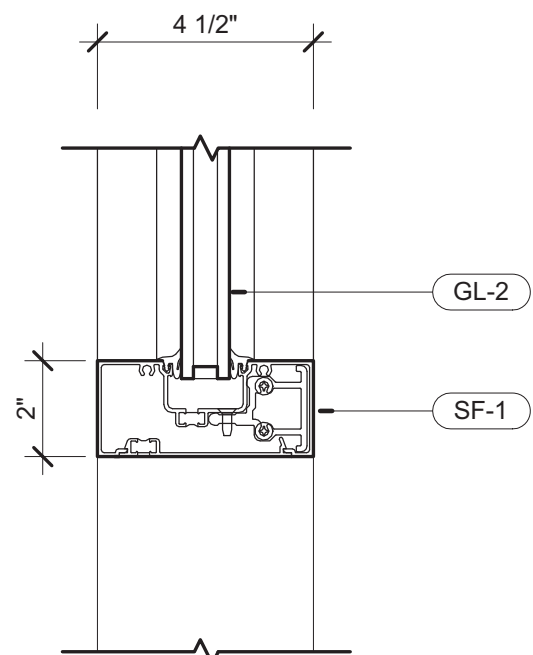
10 MULLION / DOOR JAMB
A-902 3" = 1'-0"



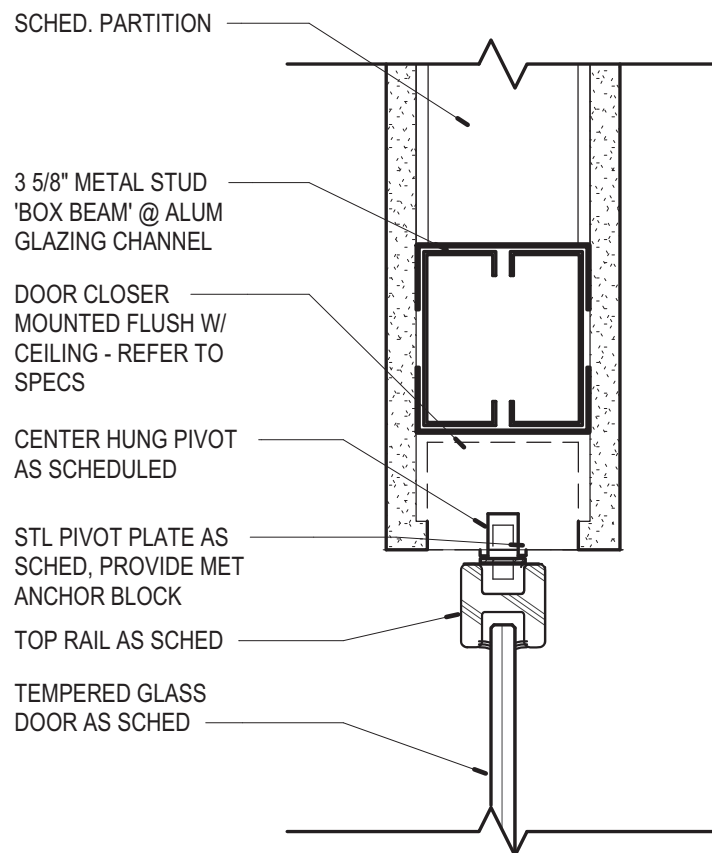
11 DOOR HEAD (TYP)
A-902 3" = 1'-0"



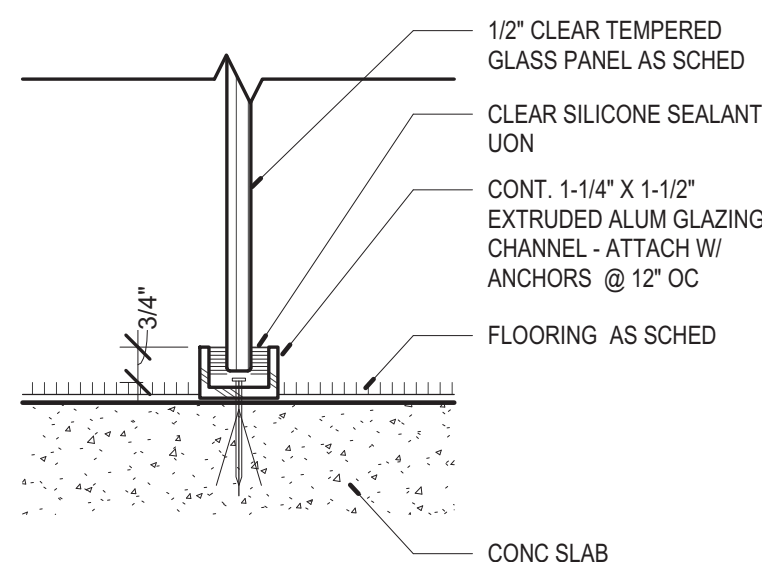
12 DOOR JAMB (TYP)
A-902 3" = 1'-0"



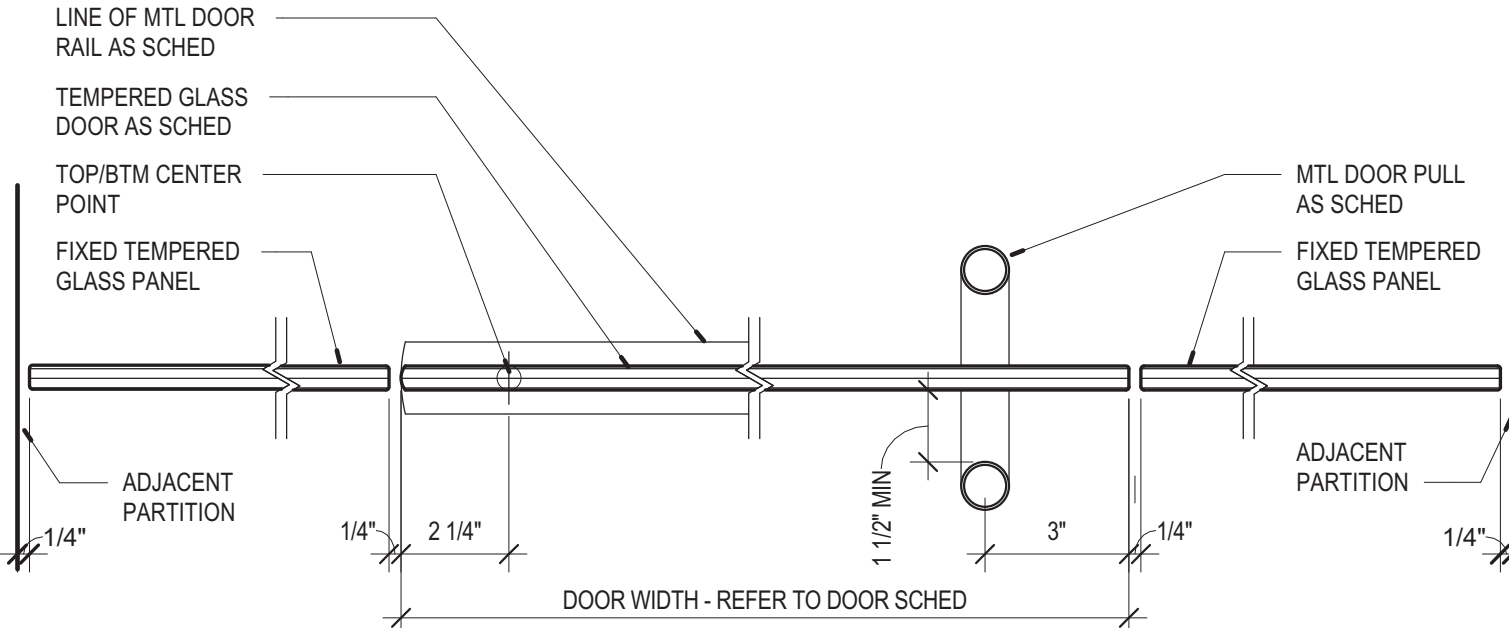
13 INNER MULLION
A-902 3" = 1'-0"



15 DETAIL @ GLASS DOOR HEAD
A-902 3" = 1'-0"

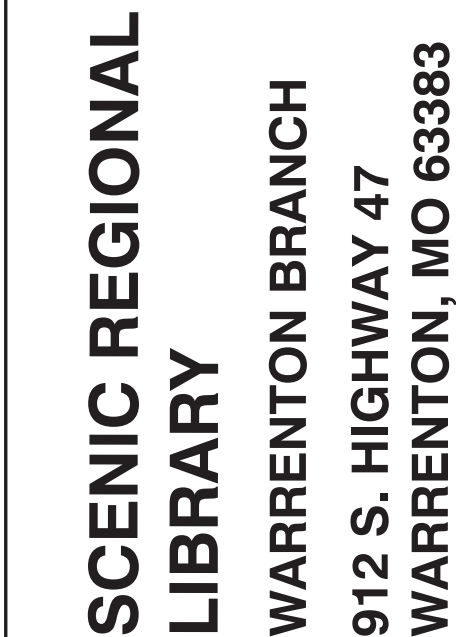


16 DETAIL @ GLASS PANEL SILL
A-902 3" = 1'-0"



17 JAMB DETAIL @ TEMPERED GLASS DOOR
A-902 3" = 1'-0"

No.	Date	Description
	06/13/17	ISSUED FOR RE-BID



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PROJECT NUMBER: 16-1161.06

A-903

GENERAL NOTES:

DESIGN CRITERIA:

A. CODES AND STANDARDS:

2009 INTERNATIONAL BUILDING CODE (I.B.C.)
BUILDING OCCUPANCY CATEGORY: II

B. DESIGN LOADS:

ROOF:
SUPERIMPOSED DEAD LOADS:

ROOFING: 3 PSF
INSULATION: 4 PSF
METAL DECK: 3 PSF
CEILINGS: 2 PSF
MEP: 4 PSF
SPRINKLER LIVE LOADS: 4 PSF

LIVE LOADS:

MINIMUM LIVE LOAD: 23 PSF

SNOW LOADS:

SNOW LOAD IMPORTANCE FACTOR: I = 1.0
GROUND SNOW LOAD: Pg = 20 PSF
FLAT ROOF SNOW LOAD: Pf = 14 PSF
SNOW EXPOSURE FACTOR: Ce = 1.0
THERMAL FACTOR: Ct = 1.0

WIND DESIGN DATA:

WIND LOAD IMPORTANCE FACTOR: I = 1.0
BASIC WIND SPEED: 90 MPH
WIND EXPOSURE: D
INTERNAL PRESSURE COEFFICIENT: +/- 0.18
COMPONENTS AND CLADDING: (0.10 SF):
ZONE 1: -19.9 PSF / +10 PSF
ZONE 2: -23.0 PSF / +10 PSF
ZONE 3: -30.8 PSF / +10 PSF
ZONE 4: -18.2 PSF / +16.8 PSF
ZONE 5: -22.4 PSF / +16.8 PSF

SEISMIC DESIGN DATA:

SEISMIC IMPORTANCE FACTOR: I = 1.0
MAPPED SPECTRAL RESPONSE ACCELERATIONS: Ss = 32.9 / S1 = 12.1%
SITE CLASS: D
SPECTRAL RESPONSE COEFFICIENTS: Sds = 33.7% / Sd1 = 18.6%
SEISMIC DESIGN CATEGORY: C
BASIC STRUCTURAL SYSTEM: STRUCTURAL STEEL SYSTEM
BASIC SEISMIC FORCE-RESISTING SYSTEM(S):
STRUCTURAL STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE.
RESPONSE MODIFICATION FACTOR: R = 3
SEISMIC RESPONSE COEFFICIENT: Cs = 0.112
DESIGN BASE SHEAR: V = 15K
ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE

FOUNDATIONS:

DESIGN:

1. THE FOUNDATION HAS BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS MADE IN THE "SOILS AND FOUNDATION INVESTIGATION" BY COCHRAN. DATED NOVEMBER 2016.

2. BACKFILLING:

A. DO NOT BACKFILL BASEMENT WALLS AND GRADE BEAMS UNTIL BRACING FLOORS ARE IN PLACE OR ADEQUATE TEMPORARY BRACING IS INSTALLED.

B. BACKFILL UNDER FOUNDATIONS WITH CONCRETE OR AS APPROVED BY GEOTECHNICAL ENGINEER.

SPREAD FOOTINGS:

1. FOOTINGS SHALL BEAR ON ENGINEERED FILL CAPABLE OF SUSTAINING A NET BEARING PRESSURE OF 1250 PSF, UNDER FULL SERVICE LIVE AND DEAD LOADS.

2. TOP OF FOOTING (T/F) ELEVATIONS ARE SHOWN ON THE PLANS.

3. FOOTINGS SHALL BE POURED INTO AN EARTH-FORMED TRENCH U.N.O.. CONTRACTOR TO PROVIDE ADDITIONAL CONCRETE REQUIRED DUE TO SOIL CHARACTERISTICS OR SLOPE OF EXCAVATIONS.

4. ALL BEARING MATERIAL SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO CONCRETE PLACEMENT. THE GEOTECHNICAL ENGINEER SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL. FOOTING ELEVATIONS SHALL BE ADJUSTED AS REQUIRED.

5. BOTTOM OF EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 30" BELOW FINAL GRADE FOR FROST PROTECTION.

FOUNDATION / RETAINING WALLS:

1. ACTIVE DESIGN PRESSURE IS EQUAL TO AN EQUIVALENT FLUID PRESSURE OF 50 PCF

2. AT-REST DESIGN PRESSURE IS EQUAL TO AN EQUIVALENT FLUID PRESSURE OF 70 PCF

3. PASSIVE DESIGN PRESSURE IS EQUAL TO AN EQUIVALENT FLUID PRESSURE OF 250 PCF

4. SURCHARGE LOADS ARE 100 PSF AT THE SURFACE.

5. COEFFICIENT OF SLIDING FRICTION:

CONCRETE/SOIL = 0.35 (ASSUMED)

6. FOUNDATION WALLS THAT RETAIN EARTH SHALL BE BRACED AGAINST BACKFILLING PRESSURES UNTIL FLOOR SLABS AT TOP AND BOTTOM ARE IN PLACE.

7. WHERE FOUNDATION WALLS ARE TO HAVE EARTH PLACED ON EACH SIDE, PLACE FILL SIMULTANEOUSLY SO AS TO MAINTAIN A COMMON ELEVATION ON EACH SIDE OF THE WALL.

8. DO NOT BACKFILL UNTIL CONCRETE HAS REACHED ITS 28 DAY STRENGTH.

CONCRETE:

1. CONCRETE SHALL CONFORM WITH THE REQUIREMENTS SET FORTH IN A.C.I. 301 AND SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH AND DENSITY, IN ACCORDANCE WITH THE FOLLOWING:

INTENDED USE	28 DAY STRENGTH f_c (K.S.I.)	CONCRETE DENSITY	MAXIMUM W/C (INCLUDING FLY ASH)	MINIMUM CEMENT MATERIAL (#CY INCLUDING FLY ASH)	MAXIMUM AGGREGATE (IN.)	SUMP LIMITS (IN.) (+0", -2")	TOTAL AIR LIMITS (%) (B)	REQUIRED ADMIXTURES (C)
FOOTINGS	4	145	0.48	564	1	4	-	-
FOUNDATION WALLS	4	145	0.48	564	3/4	4	-	-
CONCRETE EXPOSED TO DEICERS	4	145	0.40	564	3/4	4	6	AE, WR
INTERIOR SLABS ON GRADE	4	145	0.50	564	1	4	N	-
ALL CONCRETE NOT OTHERWISE SPECIFIED	4	145	0.40	564	3/4	4	6	-

NOTES:

A. FOR MAXIMUM COARSE AGGREGATE SIZE INDICATED, USE THE FOLLOWING AGGREGATE SIZE NUMBERS PER A.S.T.M. C33:

3/8" - #8 AGGREGATE
3/4" - #67 AGGREGATE
1" - #57 AGGREGATE
1 1/2" - #467 AGGREGATE

B. TOTAL AIR CONTENT LIMITS INCLUDE BOTH ENTRAINED AND ENTRAPPED AIR +/- 1 1/2%. "N" IN COLUMN INDICATES ADDITION OF ENTRAINED AIR IS NOT PERMITTED.

C. ABBREVIATIONS FOR REQUIRED ADMIXTURES AS FOLLOWS: AE - AIR-ENTRAINING ADMIXTURE, WR - WATER REDUCING ADMIXTURE

D. MAXIMUM SHRINKAGE FOR SLAB ON GRADE SHALL BE LIMITED TO 5/8" PER 100 FOOT.

2. REINFORCING SHALL CONFORM TO A.S.T.M. A615, GR. 60, INCLUDING TIES AND STIRRUPS. BARS REQUIRING WELDING OR FIELD BENDING SHALL BE A.S.T.M. A706, GRADE 60.

3. WELDED WIRE FABRIC SHALL CONFORM TO A.S.T.M. A185.

4. LAP SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE, UNLESS NOTED OTHERWISE. WHERE CLASSES ARE NOT CALLED OUT ON DRAWINGS, USE CLASS "B" SPLICES.

SPLICES f_c = 4000 P.S.I., f_y = 60,000 P.S.I.

STANDARD TENSION LAP SPlice, GRADE 60													
CLASS A and B LAP SPlice LENGTH (INCHES)													
BAR SIZE	CLASS CASE	f_c = 3,000 P.S.I.				f_c = 4,000 P.S.I.				f_c = 5,000 P.S.I.			
		A	B	A	B	A	B	A	B	A	B	A	B
#3		16	25	21	32	14	21	18	28	13	19	17	25
#4		22	33	28	43	19	28	25	37	17	25	22	33
#5		27	41	36	53	24	36	31	46	21	32	28	41
#6		33	49	43	64	28	43	37	55	25	38	33	50
#7		48	72	62	93	42	62	54	81	37	56	48	72
#8		55	82	71	107	47	71	62	92	42	64	55	83
#9		62	93	80	120	54	80	70	104	48	72	62	93
#10		70	104	90	136	60	90	78	117	54	81	70	105
#11		77	116	100	151	67	100	87	130	60	90	78	117

TOP BARS ARE DEFINED AS ANY BAR WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR, SEE NOTE 4 IN TABLE NOTES.

COMPRESSION LAP SCHEDULE	
LAP LENGTH (INCHES)	
f_c = 3,000 P.S.I. OR GREATER	
BAR SIZE	30 BAR DIA.
#3	12
#4	15
#5	19
#6	22
#7	26
#8	29
#9	33
#10	37
#11	41

TABLE NOTES:

1. TABLES ARE BASED A.C.I. 318. WHERE CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED IS AT LEAST 2 BAR DIAMETERS AND THE CLEAR COVER AT LEAST 1 BAR DIAMETER, USE CASE 1. USE CASE 2 FOR OTHER BAR ARRANGEMENTS.

2. ALL SPLICES TO BE CLASS "B" TENSION SPlice UNLESS OTHERWISE NOTED.

3. SPlice PLAIN WELDED WIRE FABRIC BY LAPPING ONE FULL MESH SPACE PLUS 2 INCHES.

4. FOR TOP BARS, MULTIPLY LENGTHS IN TABLE BY 1.3.

5. FOR EPOXY COATED REINFORCEMENT, MULTIPLY LENGTHS IN TABLE BY 1.5 FOR COVER LESS THAN 3db OR CLEAR SPACING LESS THAN 6db, MULTIPLY LENGTHS BY 1.2 FOR ALL OTHER EPOXY COATED REINFORCEMENT.

6. FOR LIGHT WEIGHT CONCRETE, MULTIPLY LENGTHS IN TABLE BY 1.3.

7. COMPRESSION DOWEL EMBEDMENT: 22 BAR DIAMETERS

5. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED, IN ACCORDANCE WITH THE LATEST EDITION OF THE A.C.I. DETAILING MANUAL.

6. ALL REINFORCING SHALL BE SUPPORTED IN FORMS, SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER, IN ACCORDANCE WITH C.R.S.I. "REINFORCING BAR DETAILING", LATEST EDITION.

7. MINIMUM CONCRETE COVER, UNLESS NOTED OTHERWISE:

A. UNFORMED SURFACE IN CONTACT WITH THE GROUND: 3 IN.

B. FORMED SURFACES EXPOSED TO EARTH OR WEATHER: 1 1/2 IN. FOR #5 BAR OR SMALLER, 2 IN. FOR #6 BAR OR LARGER

C. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER: WALLS, SLABS: 3/4 IN., BEAMS, GIRDERS AND COLUMNS (TO TIES OR STIRRUPS): 1 1/2 IN.

CONCRETE NOTES (CONT):

8. ALL CONSTRUCTION JOINTS SHOWN ON DRAWINGS SHALL BE INCORPORATED INTO THE STRUCTURE, UNLESS THEIR ELIMINATION IS APPROVED BY THE ENGINEER. ADDITIONAL CONSTRUCTION JOINTS, REQUIRED TO FACILITATE CONSTRUCTION, SHALL BE LOCATED AT POINTS OF MINIMUM SHEAR AND SHALL BE DETAILED ON SHOP DRAWINGS WITH LOCATIONS SUBJECT TO APPROVAL BY ENGINEER. REINFORCEMENT SHALL PASS CONTINUOUSLY THROUGH THE JOINT.

9. ALL ABUTTING CONCRETE MEMBERS SHALL BE DOWELED TOGETHER, UNLESS POURED MONOLITHICALLY. DOWELS SHALL BE EQUAL IN SIZE AND SPACING TO THE REINFORCING IN THE ADJACENT MEMBER.

10. UNLESS OTHERWISE SHOWN IN THE ARCHITECTURAL DRAWINGS, PROVIDE 3/4" CHAMFERS AT ALL EDGES THAT ARE EXPOSED TO VIEW IN THE FINISHED STRUCTURE.

11. SEE ARCHITECTURAL DRAWINGS FOR DOOR AND WINDOW OPENINGS, DRIP SLOTS, REGLETs, MASONRY ANCHORS, PRECAST BEARING LEDGES, BRICK LEDGE ELEVATIONS AND FOR MISCELLANEOUS EMBEDDED PLATES, BOLTS, ANCHORS, ANGLES, ETC.

12. REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES. WHERE FINISH IS NOT SPECIFIED, CONFORM TO REQUIREMENTS OF A.C.I. 301.

13. MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS SHALL BE REFERRED TO FOR DRAINS, SLEEVES, OUTLET BOXES, CONDUIT, ANCHORS, ETC. THE VARIOUS TRADES ARE RESPONSIBLE FOR PLACING THEIR ITEMS.

14. REFER TO MECHANICAL DRAWINGS FOR HOUSEKEEPING PADS AND INERTIA BASES AT MECHANICAL EQUIPMENT.

15. PROVIDE CONCRETE EQUIPMENT PADS, INERTIA BASES AND CURBS AS NOTED ELSEWHERE IN CONTRACT DOCUMENTS. UNLESS NOTED, DOWEL PADS WITH HOOKED #4 x 0'-6" PROJECTING 3" FROM CONCRETE BELOW AT 18"O.C. EACH WAY. REINFORCE PADS WITH #4@18 EACH WAY, TOP AND BOTTOM, UNLESS OTHERWISE REQUIRED BY EQUIPMENT ANCHORAGE DESIGN.

16. REFER TO MECHANICAL DRAWINGS FOR UNDERFLOOR AND PERIMETER FOUNDATION DRAINS.
17. BASE PLATES, ANCHOR BOLTS, SUPPORT ANGLES, ETC., BELOW GRADE SHALL BE COVERED WITH A MINIMUM OF 3" CONCRETE.

18. PROVIDE CONTINUOUS WATERSTOP AT HORIZONTAL AND VERTICAL JOINTS BELOW GRADE.

19. SHORING OF COMPOSITE BEAMS AND GIRDERS IS THE RESPONSIBILITY OF THE CONCRETE CONTRACTOR. SEE COMPOSITE BEAM AND DECK NOTES FOR SHORING REQUIREMENTS.

20. FILL SLABS INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE REINFORCED WITH 6x6-W14xW1.4 W.W.F., UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR PLAN DIMENSIONS, THICKNESSES, SLOPES TO DRAIN, ETC.

21. WHERE REINFORCING IS NOT INDICATED OR DEFINED, INCLUDE FOR BID PURPOSES ONLY:

A. WALLS: #5 EACH WAY EACH FACE. SPACING IN INCHES = 140 / (WALL THICKNESS IN INCHES) BUT NOT OVER 18"O.C.

B. BEAMS: 1-#9 CONTINUOUS TOP AND BOTTOM FOR EACH 100 SQUARE INCHES OF BEAM CROSS SECTIONAL AREA AND #4 STIRRUPS SPACED AT 1/4 OF BEAM DEPTH FULL LENGTH OF BEAM.

C. COLUMNS: 1-#9 VERTICAL PER 50 SQUARE INCHES OF CROSS SECTIONAL AREA AND #3 TIES @ 9"O.C.

D. SLABS: #5 EACH WAY TOP AND BOTTOM. SPACING IN INCHES = 100/(SLAB THICKNESS IN INCHES) BUT NOT OVER 18"O.C.

ON SHOP DRAWINGS, INDICATE ABOVE REINFORCING AS "PER GENERAL NOTES". SUCH REINFORCING MAY BE REVISED OR RELOCATED BY STRUCTURAL ENGINEER DURING SHOP DRAWING REVIEW.

22. MASONRY DOWELS: PROVIDE, PLACE, AND SPACE TO MATCH MASONRY REINFORCING.

23. PROVIDE STANDARD HOOKS ON BARS TERMINATING AT A CONCRETE FACE UNLESS NOTED (E.G.: EDGES OF OPENINGS, SLAB EDGES, EXPANSION JOINTS, ENDS OF BEAMS, AND AT: TOP, BOTTOM AND ENDS OF WALLS, ETC.,).

24. PROVIDE (2)#5 (MINIMUM) @ EACH SIDE OF OPENING. EXTEND 2'-0" BEYOND OPENINGS.

STRUCTURAL STEEL:

1. STEEL SHALL CONFORM TO THE FOLLOWING GRADES:

ALL WIDE FLANGE (U.N.O.): A992 GRADE 50 (F_y =50)
ALL CHANNEL, ANGLE, BASE PLATES, CONNECTION PLATES (U.N.O.): A36 (F_y =36)
STRUCTURAL PIPE: A53 (F_y =35)
STRUCTURAL HSS RECTANGULAR TUBE: A500 GRADE B (F_y =46)
STRUCTURAL HSS ROUND TUBE: A500 GRADE B (F_y =42)

2. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE A.I.S.C. CODE OF STANDARD PRACTICE, EXCEPT AS MODIFIED IN THESE NOTES AND THE PROJECT SPECIFICATIONS.

3. CONNECTIONS MAY BE BOLTED OR WELDED. THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF CONNECTIONS NOT DESIGNED ON THE DRAWINGS. GENERALLY, CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED. ANY CONNECTION THAT IS NOT SHOWN OR IS NOT COMPLETELY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF THE PROJECT, RETAINED BY THE FABRICATOR. COMPLETELY DETAILED MEANS THE FOLLOWING INFORMATION IS SHOWN ON THE DETAIL:

A. ALL PLATE DIMENSIONS AND GRADES.

B. ALL WELD SIZES, LENGTHS, PITCHES, AND RETURNS.

C. ALL HOLE SIZES AND SPACINGS.

D. NUMBER AND TYPES OF BOLTS: WHERE BOLTS ARE SHOWN BUT NO NUMBER IS GIVEN, THE CONNECTION HAS NOT BEEN COMPLETELY DETAILED.

E. WHERE PARTIAL INFORMATION IS GIVEN, IT SHALL BE THE MINIMUM REQUIREMENT FOR THE CONNECTION.

PRIOR TO FABRICATION, PROVIDE (FOR RECORD COPY) DESIGN CALCULATIONS FOR TYPICAL BEAM CONNECTIONS, ALL PRIMARY BRACING AND HANGER CONNECTIONS, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT SHALL BE SUBMITTED TO THE ENGINEER.

STRUCTURAL STEEL (CONT):

4. CONNECTION DESIGN FORCES:

A. UNLESS REACTIONS ARE SHOWN, FACTORED BEAM CONNECTIONS SHALL BE DESIGNED FOR THE GREATER OF:

55% OF MAXIMUM TOTAL UNIFORM LOAD FROM A.I.S.C. 13TH EDITION MAXIMUM TOTAL UNIFORM LOAD TABLES

15 KIPS

B. MOMENT CONNECTIONS INDICATED ON THE DRAWINGS THUS: ---<H>--- DESIGN FOR MOMENT SHOWN OR, IF NOT SHOWN, DEVELOP THE FULL PLASTIC MOMENT CAPACITY OF MEMBER.

C. MAINTAIN TENSION CAPACITY OF COLUMNS, DIAGONALS AND MEMBERS SUBJECT TO TENSION AT BOLT HOLES, NOTCHES, OR COPES.

D. CONNECTION FORCE NOTATION:

P = AXIAL FORCE IN KIPS: (+) TENSION, (-) COMPRESSION
V OR [] = SHEAR IN KIPS
M = MOMENT IN FOOT KIPS
T = TORSION IN FOOT KIPS

E. LOADS SHOWN INCLUDE COMPENSATION FOR CODE PERMITTED STRESS INCREASES AND LOAD REDUCTIONS FOR CONNECTION DESIGN.

5. THE MINIMUM PLATE THICKNESS SHALL BE 3/8".

6. BOLTED CONNECTIONS:

A. MINIMUM BOLT DIAMETER = 3/4"

B. SLIP CRITICAL CONNECTIONS OF A325SC OR A490SC BOLTS SHALL BE USED FOR ALL BOLTED CONNECTIONS OF BRACING MEMBERS, MOMENT CONNECTIONS, CANTILEVERS, AND AS SHOWN ON THE DRAWINGS. OVERSIZED AND LONG-SLOTTED HOLES ARE ALLOWED FOR SLIP CRITICAL CONNECTIONS.

C. ALL OTHER BOLTED CONNECTIONS SHALL BE BEARING TYPE USING A325N OR A490N BOLTS. OVERSIZED HOLES AND LONG-SLOTTED HOLES ARE NOT ALLOWED UNLESS SHOWN ON THE DRAWINGS.

D. A307 BOLTS MAY BE USED WHERE INDICATED ON THE DRAWINGS.

E. PROTRUDING BOLT HEADS, SHAFTS OR NUTS SHALL NOT EXTEND INTO NOR PROHIBIT THE APPLICATION OF ARCHITECTURAL FINISHES AND THEY SHALL NOT EXTEND INTO NOR PROHIBIT THE PLACEMENT OF STEEL DECKING TO THE CORRECT LINE AND ELEVATION.

F. THE FABRICATOR IS RESPONSIBLE FOR VERIFYING THE TENSION CAPACITY OF AXIALLY LOADED MEMBERS AFTER A SECTION IS REDUCED FOR BOLT HEADS. MEMBER SIZE MAY BE INCREASED OR CONNECTION PLATES ADDED AS REQUIRED.

G. SHOP DRAWINGS SHALL INDICATE THE TYPE OF BOLT USED IN EACH CONNECTION AND THE ALLOWABLE VALUES USED FOR THE VARIOUS BOLT TYPES.

7. WELDED CONNECTIONS:

A. WELDS ARE CONTINUOUS UNLESS NOTED.

B. ALL FILLET WELDS: A.I.S.C. MINIMUM BUT NOT LESS THAN 1/4" UNLESS NOTED OTHERWISE.

C. ALL WELDING SHALL BE IN ACCORDANCE WITH THE CURRENT "STRUCTURAL WELDING CODE" (A.W.S. D1.1) PUBLISHED BY THE AMERICAN WELDING SOCIETY. ELECTRODES FOR WELDING SHALL COMPLY WITH THE REQUIREMENTS OF TABLE 4.1.1 OF (A.W.S. D1.1).

D. ALL GROOVE WELDS SHALL BE COMPLETE PENETRATION UNLESS NOTED OTHERWISE.

8. SPlicing OF STEEL MEMBERS, UNLESS SHOWN ON THE DRAWINGS, IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.

9. NO CHANGE IN SIZE OR POSITION OF THE STRUCTURAL ELEMENTS SHALL BE MADE AND HOLES, SLOTS, CUTS, ETC., ARE NOT PERMITTED THROUGH ANY MEMBER UNLESS THEY ARE DETAILED ON THE APPROVED SHOP DRAWINGS.

10. NO FINAL BOLTING OR WELDING SHALL BE MADE UNTIL AS MUCH OF THE STRUCTURE AS WILL BE STIFFENED THEREBY HAS BEEN PROPERLY ALIGNED.

11. UNLESS NOTED OTHERWISE, BEAMS SHALL BEAR 8" MINIMUM ON CONCRETE OR MASONRY. ANCHOR BEAMS TO MASONRY OR CONCRETE WITH 2-3/4" DIA. ANCHOR BOLTS OR WELDED TO EMBED PLATE.

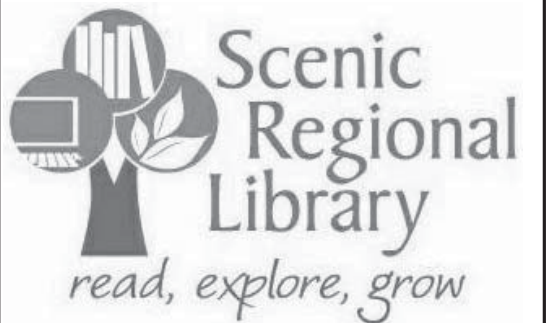
12. FABRICATE ALL BEAMS WITH THE MILL CAMBER UP.

13. SHEAR STUDS: CONFORM TO A.W.S. D1.1-98, SHOP WELD EXCEPT WHERE APPLIED THROUGH METAL DECK.

14. HEADED STUDS SHALL CONFORM TO A.S.T.M. A108, GRADE 1015, WELDABLE (F_y = 65 K.S.I.).

15. WHERE FIREPROOFING IS REQUIRED, ADJUST FIREPROOFING THICKNESS BASED ON MEMBER SIZES. SEE ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS AND THICKNESS.

16. THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN AND DETAILING OF STEEL STAIRS. STAIRS SHOWN ON THE STRUCTURAL DRAWINGS ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED. STAIRS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT, RETAINED BY THE FABRICATOR.



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ENGINEER OF RECORD:

STEVEN J. EHRETT MO STRUCTURAL LICENSE E-29025 MO CERTIFICATE OF AUTHORITY 000287		
No.	Date	Description
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METAL ROOF DECK:

1. METAL ROOF DECK SHALL COMPLY WITH THE REQUIREMENTS OF THE STEEL DECK INSTITUTE PROJECT SPECIFICATIONS SEE PLANS FOR DECK TYPES AND GAUGES.
2. METAL ROOF DECK HAS BEEN DESIGNED TO FUNCTION AS A DIAPHRAGM FOR THE TRANSMISSION OF LATERAL LOADS.
3. LAP DECK 4" MINIMUM AT SPLICES CENTERED ON SUPPORT.
4. DO NOT SUSPEND POINT LOADS FROM DECK INCLUDING HANGERS FOR: CEILINGS, PIPES, DUCTS, EQUIPMENT, ETC., CONTRACTOR INSTALLING SUCH POINT LOADS SHALL PROVIDE SUB-FRAMING TO TRANSFER LOAD TO STRUCTURE SUPPORTING DECK.
5. FABRICATE DECK UNITS IN LENGTHS TO SPAN THREE OR MORE SUPPORT SPACINGS.
6. MINIMUM YIELD STRENGTH = 33 K.S.I.
7. METAL DECK SHALL BE ROLLED OF STEEL SHEETS CONFORMING TO A.S.T.M. A1008 GRADE A. NO METAL ROOF DECK SHALL HAVE SECTION PROPERTIES PER FOOT OF WIDTH NOT LESS THAN THAT PROVIDED BY VULCRAFT FOR THE TYPE OF DECK INDICATED.
8. DECKING MANUFACTURER SHALL COORDINATE SIZE AND LOCATION OF ROOF OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. PROVIDE FRAMING FOR OPENINGS PER TYPICAL DETAILS.

STEEL JOISTS:

1. STEEL JOISTS SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH "S.J.I." SPECIFICATIONS (LATEST EDITION).
2. BRIDGING SHALL BE SPACED IN ACCORDANCE WITH S.J.I. SPECIFICATIONS AND THE ERECTION DRAWINGS OF THE JOIST SUPPLIER. STEEL JOIST BRIDGING SHALL BE PLACED AND JOIST ENDS FIXED PRIOR TO THE APPLICATION OF ANY LOADS. JOIST SUPPLIER SHALL PROVIDE ALL BRIDGING NECESSARY TO ADEQUATELY BRACE THE JOIST TOP CHORD WHERE ROOF CONSTRUCTION IS INSUFFICIENT.
3. MINIMUM BEARING REQUIREMENTS, UNLESS NOTED OTHERWISE:

K SERIES: 2 1/2" ON STRUCTURAL STEEL
LH & DLH SERIES: 4" ON STRUCTURAL STEEL
4. UNLESS NOTED OTHERWISE, JOISTS SHALL BE ATTACHED TO SUPPORTING STEEL WORK AS FOLLOWS:

K SERIES: TWO 1/8" FILLET WELDS (ONE EACH SIDE) 2" LONG OR EQUIVALENT.
LH & DLH SERIES: TWO 1/4" FILLET WELDS (ONE EACH SIDE) 2" LONG OR EQUIVALENT.
5. JOISTS, AT COLUMN CENTERLINES, SHALL BE BOLTED TO STRUCTURAL STEEL BEAMS PER S.J.I. REQUIREMENTS.
6. SEE DETAILS FOR ATTACHMENT OF JOISTS TO CONCRETE AND MASONRY.
7. BRIDGING THAT TERMINATES AT, OR IS INTERRUPTED BY, STRUCTURAL STEEL BEAMS, SHALL BE ATTACHED THERETO BY FIELD WELDING OR BOLTING. SEE DRAWINGS FOR DETAIL OF ATTACHMENT OF BRIDGING TO CONCRETE OR MASONRY.
8. JOISTS SHALL BE STOCKPILED AT THE JOBSITE IN A VERTICAL POSITION, RESTING ON THEIR TOP OR BOTTOM CHORDS, AND SHALL BE ADEQUATELY SUPPORTED WITH WOOD BLOCKING. KEEP JOISTS FREE OF MUD AND DIRT.
9. IT SHALL BE THE ERECTOR'S RESPONSIBILITY TO SEE THAT JOISTS WHICH ARE DAMAGED, KINKED, BENT, OR WITH BROKEN WELDS, ARE NOT PLACED IN THE STRUCTURE.
10. JOIST SUPPLIER SHALL DESIGN JOISTS AND SUBMIT CALCULATIONS, STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER IN THE STATE OF THE PROJECT FOR RECORD COPY TO BUILDING DEPARTMENT AND ENGINEER OF RECORD PRIOR TO FABRICATION OF JOISTS. THE ABOVE CALCULATIONS TO INCLUDE ALL LOADING CONDITIONS SHOWN ON THE DRAWINGS AND DETAILS.
11. JOIST ENDS, AT ROOF DIAPHRAGM BOUNDARIES, SHALL BE CAPABLE OF TRANSMITTING THE BOUNDARY SHEAR TO THE SUPPORTING STRUCTURE. SEE DETAILS.
12. THE JOIST DESIGN AND BRIDGING PLACEMENT SHALL BE CHECKED BY THE JOIST MANUFACTURER USING THE NET UPLIFT SPECIFIED ON THE DRAWINGS. CHANGES IN JOIST SIZE AND/OR BRIDGING PLACEMENT WILL SHOW UP ON THE SHOP DRAWINGS.
13. LOCATE PIPE AND EQUIPMENT HANGERS AND OTHER CONCENTRATED LOADS ONLY WHERE LOADS ARE SHOWN ON JOIST SHOP DRAWINGS. ATTACHMENT METHOD AS APPROVED BY JOIST MANUFACTURER.
14. ALL HOLES IN SUPPORTING STEEL PROVIDED FOR JOIST ERECTION SHALL BE "FILLED" WITH APPROPRIATE DIAMETER BOLT OR PLUG WELDED. HOLES IN SUPPORTING STEEL SHALL NOT BE SLOTTED.

POST-INSTALLED MECHANICAL ANCHORS:

1. POST-INSTALLED MECHANICAL ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER OF RECORD PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN ANCHORS. CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED PER THE MANUFACTURER'S INSTRUCTIONS. DO NOT CUT EXISTING REINFORCING.
2. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OR RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.
3. UNLESS SPECIFIED OTHERWISE, ANCHORS SHALL BE EMBEDDED IN THE APPROPRIATE SUBSTRATE WITH A MINIMUM EMBEDMENT OF 8 TIMES THE NOMINAL ANCHOR DIAMETER OR THE EMBEDMENT DEPTH REQUIRED TO SUPPORT THE INTENDED LOAD. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE LISTED BELOW, SHALL BE SUBMITTED TO THE ENGINEER WITH CALCULATIONS THAT ARE PREPARED AND SEALED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE WHERE PROJECT IS LOCATED, SHOWING THAT THE SUBSTITUTED PRODUCTS WILL ACHIEVE AN EQUIVALENT CAPACITY.
4. UNLESS OTHERWISE NOTED IN THE DETAILS, ANCHORS SHALL BE:

A. CONCRETE EXPANSION ANCHORS:

ALL CONCRETE EXPANSION ANCHORS SHALL MEET THE REQUIREMENTS OF A.C.I. 318, APPENDIX D AND SHALL BE ACCEPTABLE FOR BOTH CRACKED AND UN-CRACKED CONCRETE.

"STRONG-BOLT" BY SIMPSON STRONG-TIE CO. (ICC-ES ESR-1771)
"KWIK BOLT TZ" BY HILTI, INC. (ICC-ES ESR-1917)
"HSL HEAVY DUTY SLEEVE ANCHOR" BY HILTI, INC. (ICC-ES ESR-1545)
"HDA UNDERCUT ANCHOR" BY HILTI, INC. (ICC-ES ESR-1546)
"KWIK BOLT 3" BY HILTI, INC. UNCRACKED ONLY (ICC-ES ESR-2302)

B. GROUTED MASONRY EXPANSION ANCHORS:

"WEDGE-ALL" BY SIMPSON STRONG-TIE CO. (ICC-ES ESR-1396)
"KWIK BOLT 3" BY HILTI, INC. (ICC-ES ESR-1385)
ADHERE TO MANUFACTURES REQUIREMENTS FOR ANCHOR SPACING AND LOCATIONS.

C. CONCRETE SCREW ANCHORS:

ALL SCREW ANCHORS SHALL BE INSTALLED IN DRY, INTERIOR NON-CORROSIVE ENVIRONMENTS OR FOR TEMPORARY OUTDOOR APPLICATIONS.

"TITEN HD" BY SIMPSON STRONG-TIE CO. (ICC-ES ESR-2713) CRACKED AND UN-CRACKED CONCRETE.
"KWIK HUS EZ AND EZ-1" BY HILTI, INC. (ICC-ES ESR-3027)

D. MASONRY SCREW ANCHORS:

ALL SCREW ANCHORS SHALL BE INSTALLED IN DRY, INTERIOR NON-CORROSIVE ENVIRONMENTS OR FOR TEMPORARY OUTDOOR APPLICATIONS.

"TITEN HD" BY SIMPSON STRONG-TIE CO. (ICC-ES ESR-2713)
"HUS-H SCREW ANCHOR" BY HILTI, INC. (ICC-ES ESR-2369)

E. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE ICC-ES REPORT AND AS PRESCRIBED BY THE APPLICABLE BUILDING CODE.

POST-INSTALLED ADHESIVE ANCHORS:

1. POST-INSTALLED ADHESIVE ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER OF RECORD PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN ANCHORS. CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED PER THE MANUFACTURER'S INSTRUCTIONS. DO NOT CUT EXISTING REINFORCING.
2. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.
3. ADHESIVE ANCHOR SYSTEMS IN CONCRETE MUST COMPLY WITH THE LATEST REVISION OF ICC-ES ACCEPTANCE CRITERIA AC308 AND HAVE A VALID ICC-ES REPORT IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE. ACCEPTABLE ADHESIVE ANCHOR SYSTEMS IN CONCRETE ARE LISTED BELOW:

"HIT-HY 200SAFE SET" BY HILTI, INC. (ICC-ES ESR-3187)
"HIT RE 500-SD" BY HILTI, INC. (ICC-ES ESR-2322) CRACKED AND UN-CRACKED CONCRETE
"SET-XP EPOXY" BY SIMPSON STRONG-TIE CO. (ICC-ES ESR-2508) CRACKED AND UN-CRACKED CONCRETE

ADHESIVE ANCHORS SHALL CONSIST OF AN INSERT AND AN ADHESIVE FORMULA. INSERTS SHALL MEET THE REQUIREMENTS OF A.S.T.M. A307, A36, A193-B7, OR F1554 FOR THREADED RODS OR A.S.T.M. A615 OR A706 FOR REBAR UNLESS NOTED OTHERWISE.

ALL ADHESIVE ANCHORS SHALL BE ACCEPTABLE FOR LONG TERM LOADING ONLY. NON-EPOXY BASED ADHESIVES SHALL BE USED WHEN BASE MATERIAL TEMPERATURES ARE BELOW 40 DEG F.

4. ADHESIVE ANCHOR SYSTEMS IN GROUTED MASONRY MUST COMPLY WITH THE LATEST REVISION OF ICC-ES AND HAVE A VALID ICC-ES REPORT IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE. ACCEPTABLE ADHESIVE ANCHOR SYSTEMS ARE LISTED BELOW:

"HIT-HY 70" BY HILTI, INC. (ICC-ES ESR-PENDING)
"SET EPOXY" BY SIMPSON STRONG-TIE CO. (ICC-ES ESR-1772)
ADHERE TO MANUFACTURES REQUIREMENTS FOR ANCHOR SPACING AND LOCATIONS.

5. DRILLING SHALL BE PERFORMED WITH A ROTARY HAMMER DRILL AND CARBIDE TIPPED DRILL BIT IN ACCORDANCE WITH INSTRUCTIONS ACCOMPANYING ADHESIVE CARTRIDGES AND APPLICABLE ICC-ESR.

6. BORE HOLE CLEANING PROCEDURES MUST COMPLY WITH INSTRUCTIONS ACCOMPANYING THE ADHESIVE CARTRIDGE AND APPLICABLE ICC-ESR IN ORDER TO PRODUCE A DRY, DUST-FREE HOLE.

7. INJECTION OF ADHESIVE SHALL BE PREFORMED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS ACCOMPANYING PRODUCT AND APPLICABLE ICC-ESR TO PRODUCE AN AIR-VOID FREE INJECTION.

8. ALTERNATE DRILLING METHODS, SUCH AS DIAMOND CORING, MUST BE APPROVED BY THE ENGINEER OF RECORD AND COMPLY WITH THE APPLICABLE ICC-ES REPORT.

9. SPECIAL CONDITIONS SUCH AS WATER SATURATED CONCRETE, WATER-FILLED HOLES, UNDERWATER AND OVERHEAD INSTALLATIONS MUST BE APPROVED BY THE ENGINEER OF RECORD AND COMPLY WITH THE APPLICABLE ICC-ES REPORT.

10. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE ICC-ES REPORT AND AS PRESCRIBED BY THE APPLICABLE BUILDING CODE.

11. FASTENING ELEMENTS (THREADED RODS, REBAR AND INTERNALLY THREADED INSERTS) MUST BE CLEAN, DRY AND FREE OF ANY OIL OR CONTAMINANTS.

12. OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING HILTI PROFI SYSTEM.

DEFERRED SUBMITTALS:

1. THE FOLLOWING PROJECT COMPONENTS REQUIRE DESIGN TO BE PROVIDED BY A QUALIFIED PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF THE PROJECT:

A. CONNECTION DESIGN FOR BRACED FRAMES, MOMENT FRAMES, COLLECTOR BEAMS AND TYPICAL SHEAR CONNECTIONS.

B. STRUCTURAL LIGHT GAUGE STEEL FRAMING CALCULATIONS AND DETAILS.

EXISTING CONSTRUCTION:

1. ALL DIMENSIONS AND ELEVATIONS TO EXISTING CONSTRUCTION ARE FOR REFERENCE ONLY. FIELD VERIFY DIMENSIONS AND ELEVATIONS PRIOR TO PREPARING SHOP DRAWINGS, FABRICATING MEMBERS (STRUCTURAL ITEMS), AND INSTALLATION.

2. DO NOT CUT ANY REINFORCING STEEL WHILE DRILLING INTO EXISTING CONCRETE.

3. PRIOR TO SUBMITTING ANY SHOP DRAWINGS, PROVIDE CERTIFICATION FROM LAND SURVEYOR REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED THAT DIMENSIONS BETWEEN NEW CONSTRUCTION AND EXISTING CONSTRUCTION HAVE BEEN SURVEYED AND FORWARDED TO SHOP DRAWING DETAILERS.

4. PRIOR TO PREPARING SHOP DRAWINGS, EXPOSE ALL FOUNDATIONS AND BUILDING FRAMING IN THE VICINITY OF NEW CONSTRUCTION AND SUBMIT LAYOUT TO ENGINEER OF RECORD.

5. NOTIFY STRUCTURAL ENGINEER OF ANY DISCREPANCIES OF EXISTING CONDITIONS WITH THE STRUCTURAL DRAWINGS.

MISCELLANEOUS:

1. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.

2. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.

3. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.

4. OPENINGS 1'-4" AND LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.

5. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.

6. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.

7. UNLESS OTHERWISE NOTED, FIRE PROOFING METHODS AND MATERIALS FOR STRUCTURAL MEMBERS ARE NOT SHOWN ON STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIRE RATING REQUIREMENTS, FIRE PROOFING METHODS AND MATERIALS.

8. DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS.

9. CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD. EXPANSION JOINTS SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED TO ACCOMMODATE ANTICIPATED THERMAL MOVEMENT AFTER THE BUILDING IS COMPLETE.

10. THE CONTRACTOR SHALL INFORM THE ARCHITECT IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR SUCH DEVIATION BY THE ARCHITECT'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS HE HAS SPECIFICALLY INFORMED THE ARCHITECT OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE ARCHITECT HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.

11. ALL THINGS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS, OR AMBIGUITIES, IN THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. PLANS AND/OR SPECIFICATIONS WILL BE CORRECTED, OR WRITTEN INTERPRETATION OF THE ALLEGED DEFICIENCY, OMISSION, CONTRADICTION OR AMBIGUITY WILL BE MADE BY THE ARCHITECT BEFORE THE AFFECTED WORK PROCEEDS.

12. CHECK ALL DIMENSIONS AGAINST REQUIREMENTS OF OTHER CONTRACT DOCUMENTS. FIELD VERIFY DIMENSIONS RELATING TO EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS AND FABRICATION.

13. WHERE DIMENSIONS OR WEIGHTS OF EQUIPMENT OR SYSTEMS ARE VARIABLE FROM MANUFACTURER TO MANUFACTURER, VERIFY DIMENSIONS AND WEIGHTS SHOWN ON DRAWINGS WITH SELECTED MANUFACTURER PRIOR TO ORDERING MATERIALS. NOTIFY STRUCTURAL ENGINEER OF DISCREPANCIES.

14. DO NOT PLACE EQUIPMENT WHEN SHIPPING OR OPERATING WEIGHT EXCEEDS WEIGHT INDICATED ON STRUCTURAL DRAWINGS.

15. NO MODIFICATION, ALTERATION OR REPAIR SHALL BE MADE WITHOUT PRIOR REVIEW BY STRUCTURAL ENGINEER. SUBMIT DETAILS AND CALCULATIONS PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN STATE WHERE PROJECT IS LOCATED AND EMPLOYED BY CONTRACTORS.

16. VERIFY ELEVATOR AND ESCALATOR PIT DIMENSIONS, LOCATIONS, LOADINGS AND DETAILS WITH SUPPLIERS PRIOR TO THE FABRICATION AND/OR INSTALLATION OF ANY MATERIAL.

SPECIAL INSPECTION:

THE FOLLOWING STRUCTURAL ELEMENTS OF CONSTRUCTION SHALL REQUIRE SPECIAL INSPECTION PER I.B.C. SECTION 1704. CONTRACTOR TO FURNISH INSPECTION UNLESS INSTRUCTED OTHERWISE BY THE CONSTRUCTION CONTRACT.

TYPE OF CONSTRUCTION	IBC SECTION	IBC TABLE
INSPECTION OF FABRICATOR	1704.2	-
STEEL CONSTRUCTION	1704.3	1704.3
CONCRETE	1704.4	1704.4
SOILS	1704.7	1704.7
ADHESIVE ANCHORS SHALL BE INSPECTED PER THE REQUIREMENTS IN THEIR ICC-ES REPORTS		
MECHANICAL ANCHORS SHALL BE INSPECTED PER THE REQUIREMENTS IN THEIR ICC-ES REPORTS		

NOTES:

1. SPECIAL INSPECTION IS NOT A SUBSTITUTE FOR INSPECTION BY A CITY INSPECTOR. SPECIALLY INSPECTED WORK WHICH IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE CITY INSPECTOR IS SUBJECT TO REMOVAL OR EXPOSURE.

2. THE SPECIAL INSPECTORS MUST BE CERTIFIED BY THE CITY TO PERFORM THE TYPES OF INSPECTION SPECIFIED.

3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE SPECIAL INSPECTOR OR INSPECTION AGENCY AT LEAST ONE WORKING DAY PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION. ANY WORK PERFORMED WITHOUT REQUIRED SPECIAL INSPECTION IS SUBJECT TO REMOVAL.

4. SUBMIT WRITTEN REPORTS WITHIN TWO DAYS OF TESTING TO ENGINEER OF RECORD.



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ENGINEER OF RECORD:

STEVEN J. EHRETT
MO STRUCTURAL LICENSE E-29025
MO CERTIFICATE OF AUTHORITY 000287

No.	Date	Description
	04/14/17	ISSUED FOR BID

DRAWN BY: **TRN**

PROJECT NUMBER: **16023**

SHEET TITLE:
GENERAL NOTES

S-101



-
- Diagram illustrating a column base plate connection. The base plate is diamond-shaped, and the column is centered within it. The connection is labeled with the following components:
- BASE PLATE - SEE SCHED
 - COLUMN PER SCHED
 - ISOLATION JOINT (CIRCULAR OR SQUARE)
 - 3" CLR MIN (Minimum clearance dimension)
 - CJ (Center Joint)



NOTES:

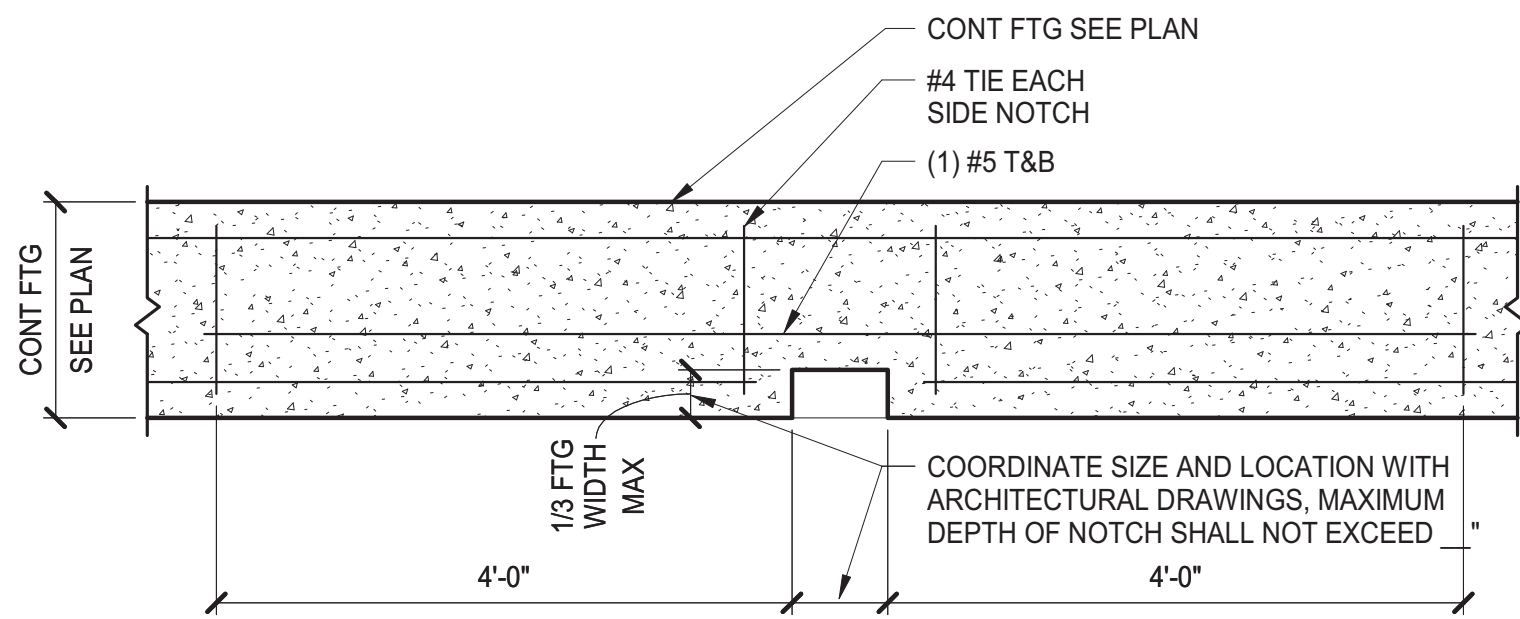
1. TABLE INDICATES MINIMUM VALUES. CONNECTION ENGINEER TO PROVIDE CALCULATIONS FOR ALL SHEAR CONNECTIONS.



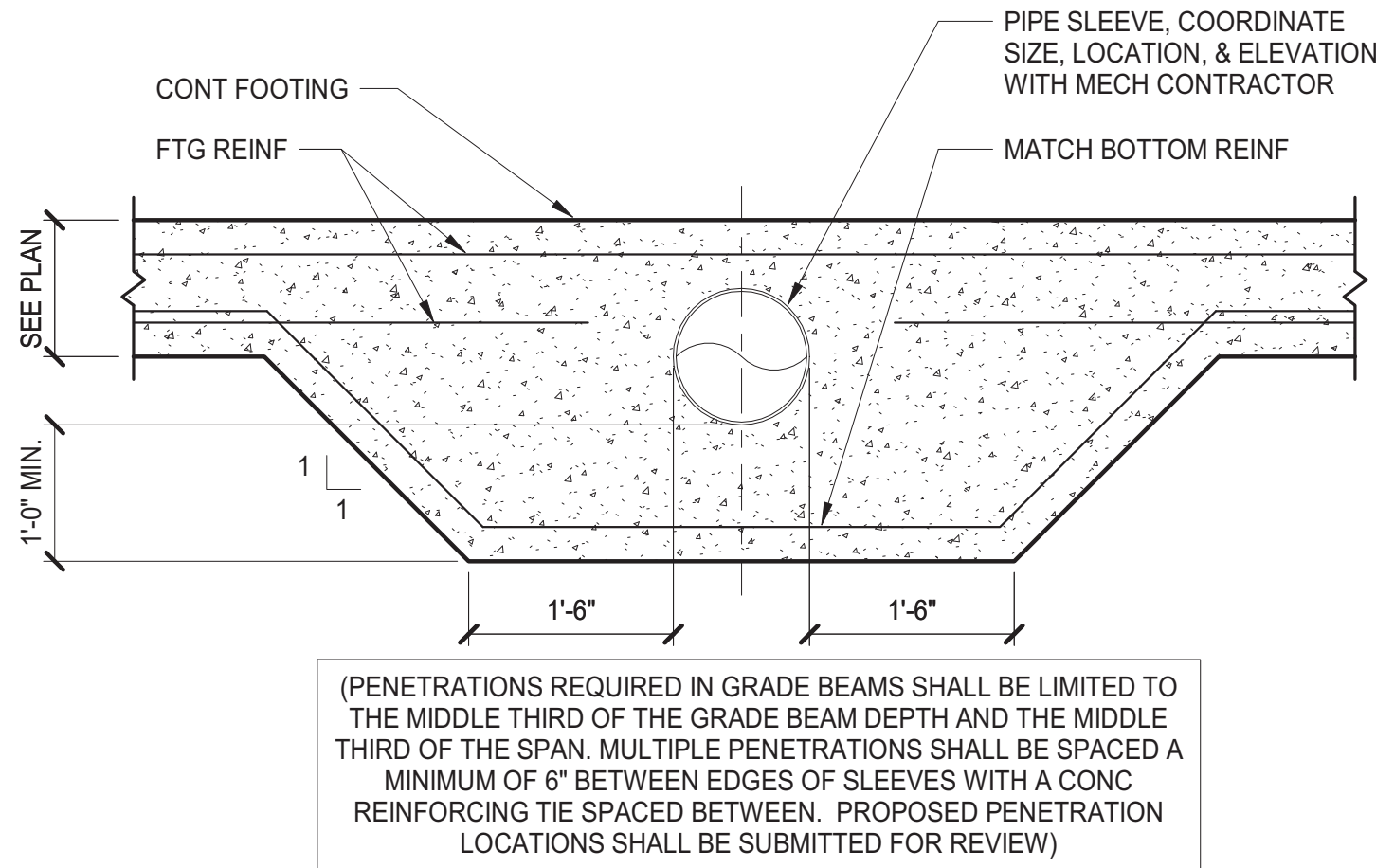
NOTES:

1. TABLE INDICATES MINIMUM VALUES. CONNECTION ENGINEER TO PROVIDE CALCULATIONS FOR ALL SHEAR CONNECTIONS.

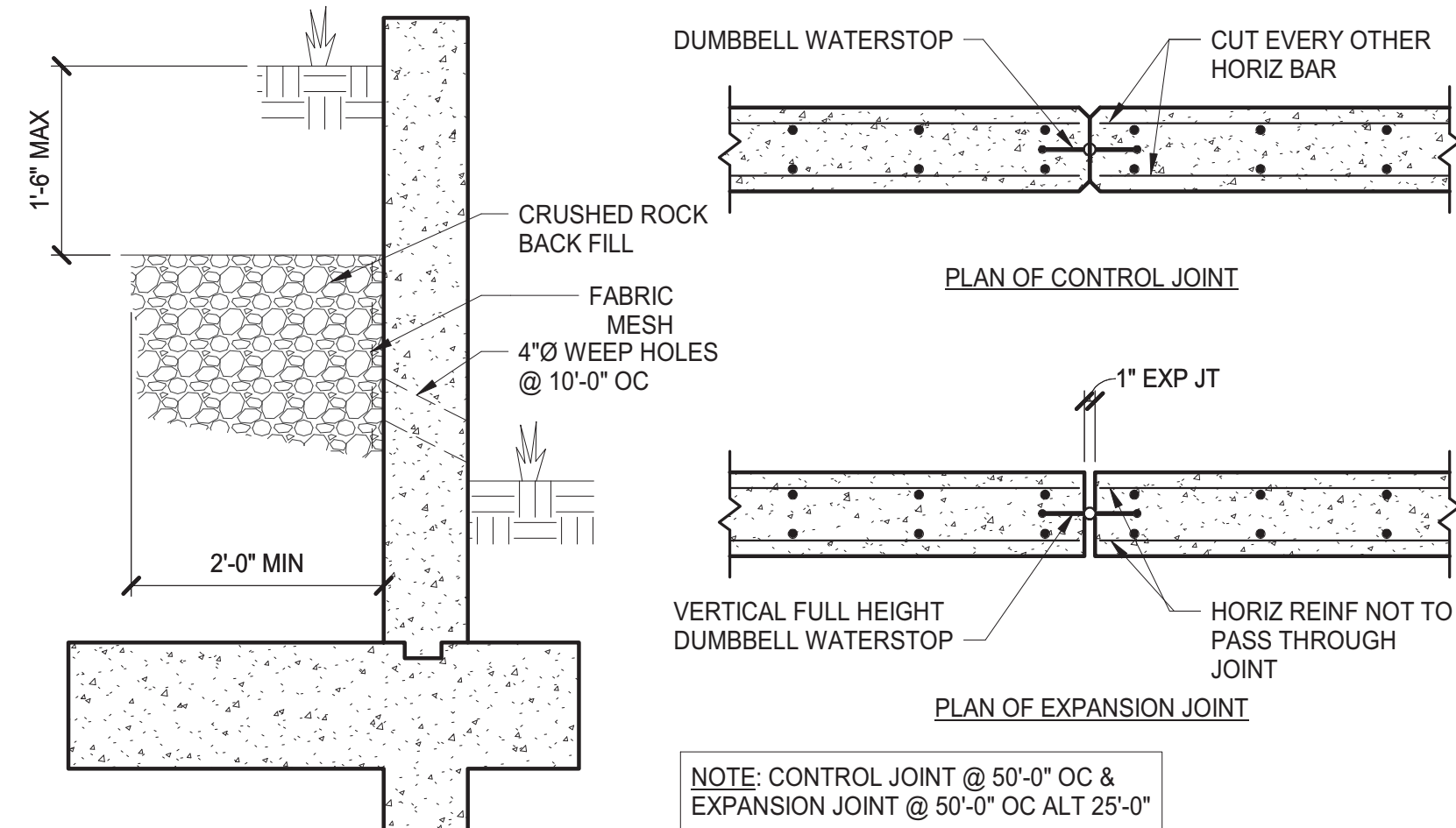




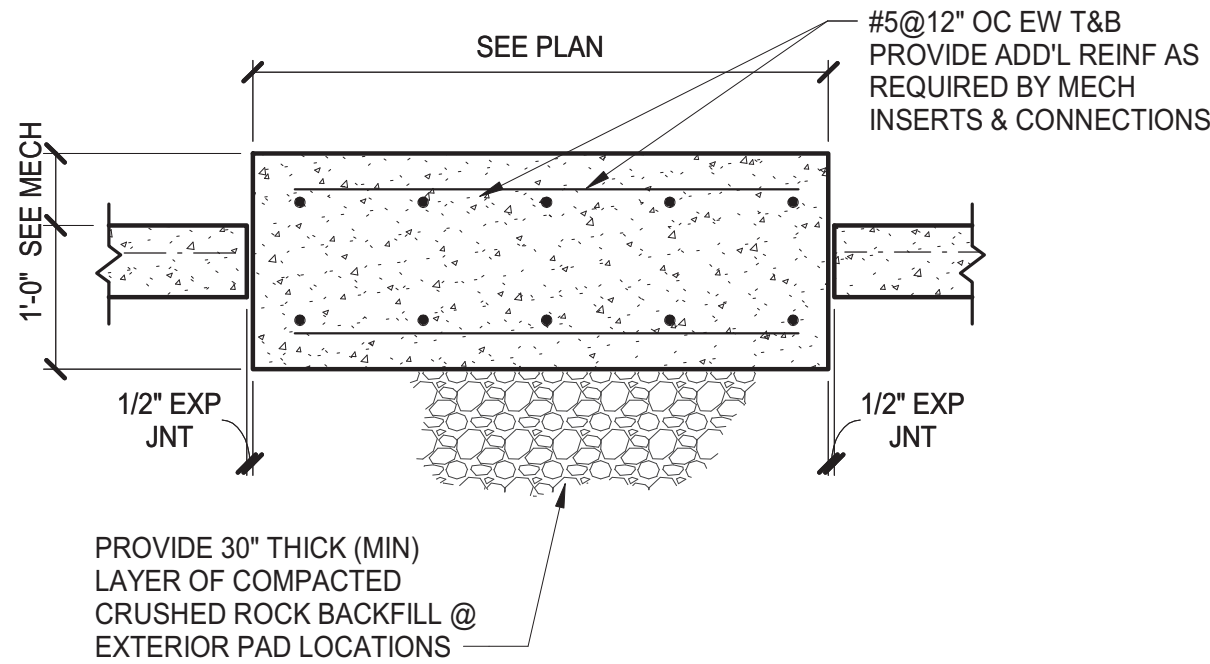
1
S-103 / N.T.S. TYPICAL DOWN SPOUT NOTCH AT CONTINUOUS FOOTING DETAIL



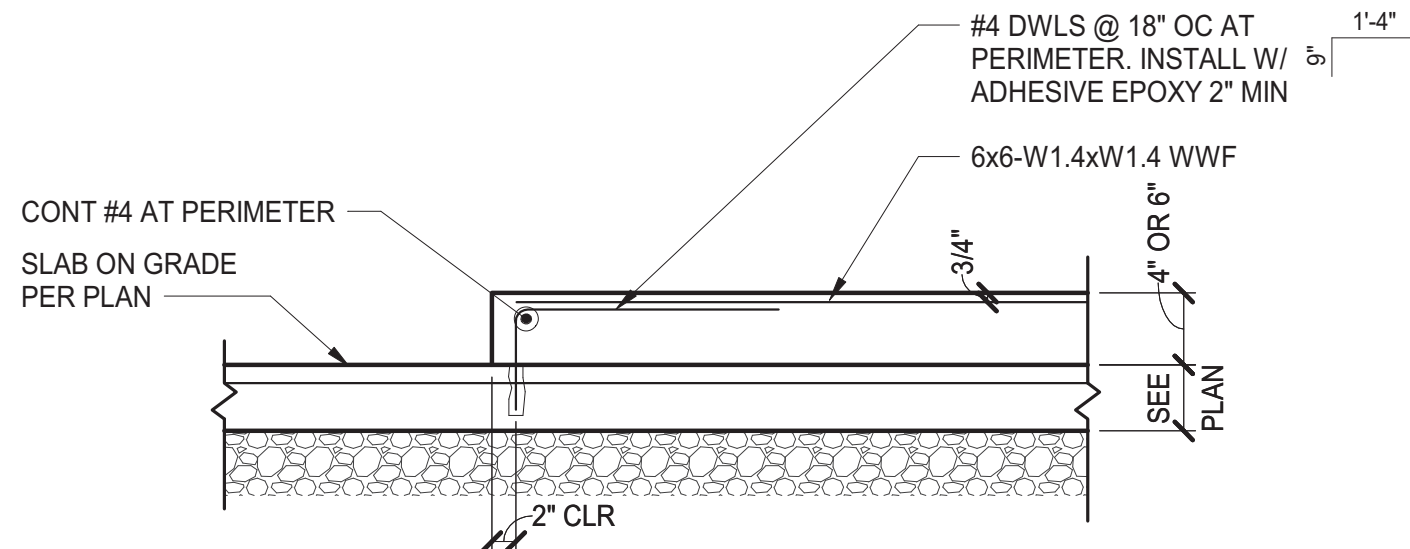
2
S-103 / N.T.S. TYPICAL PIPE SLEEVE THRU CONTINUOUS FOOTING DETAIL



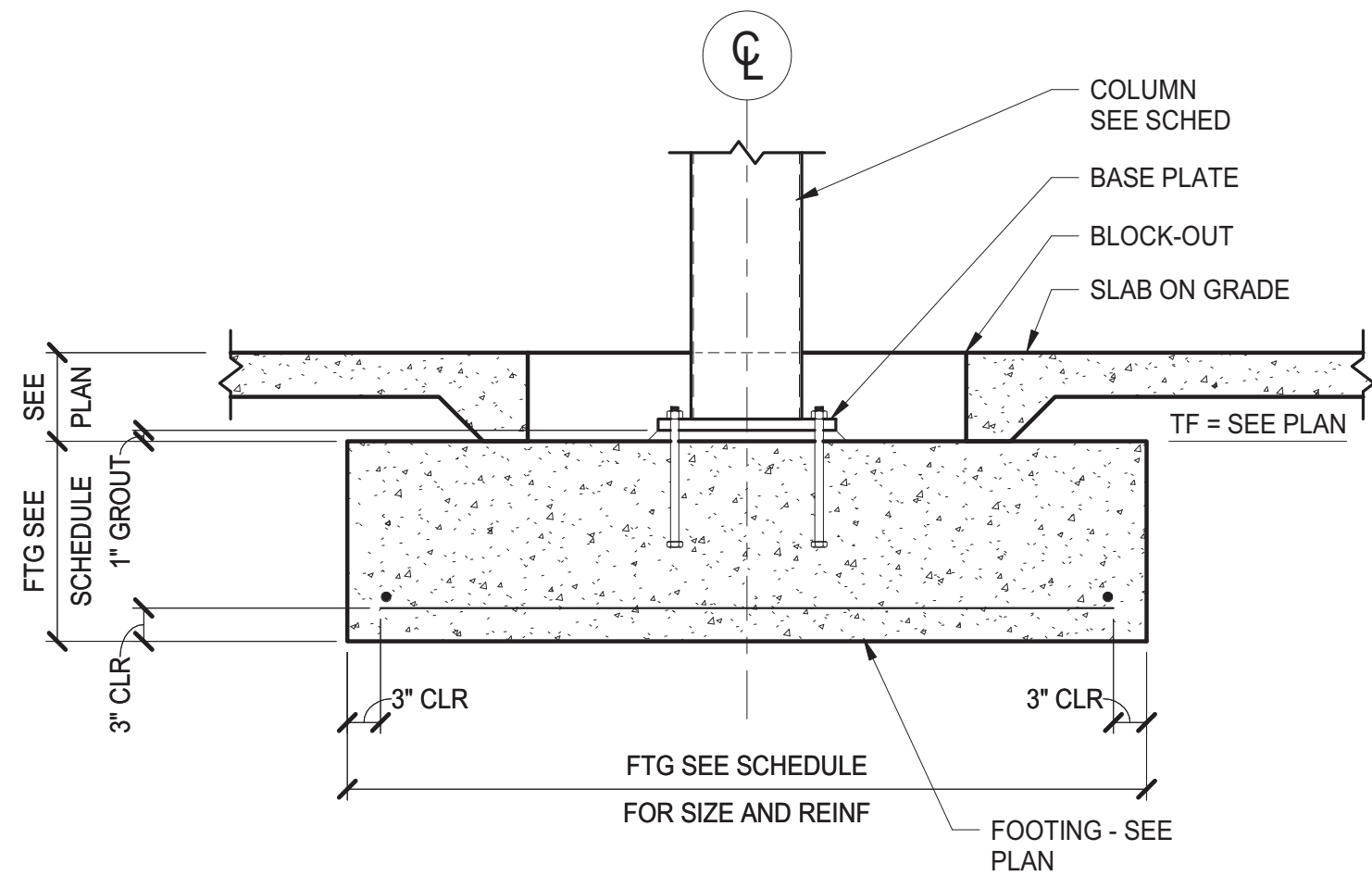
3
S-103 / N.T.S. TYPICAL RETAINING WALL DETAILS



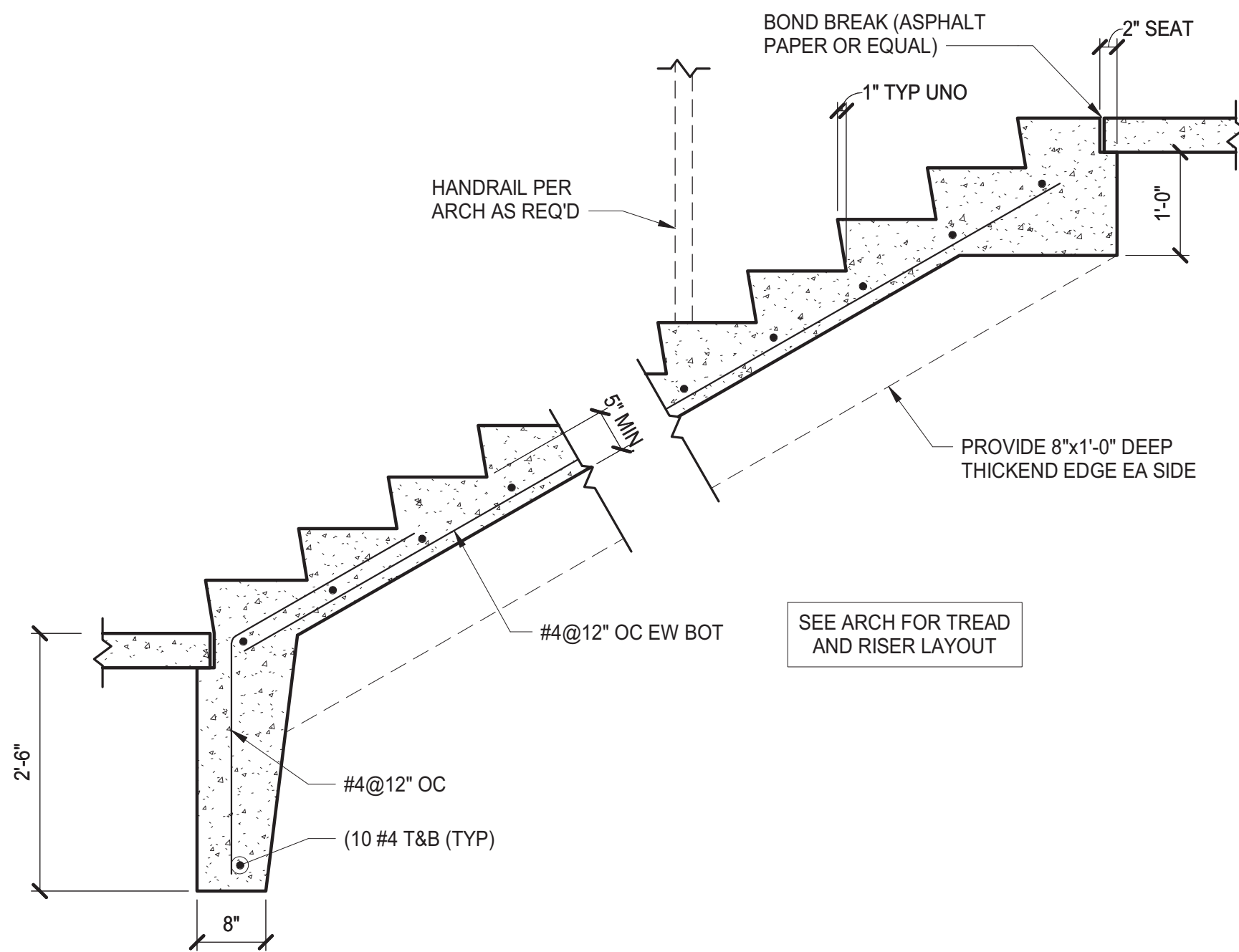
4
S-103 / N.T.S. TYPICAL MECHANICAL PAD ON GRADE DETAIL



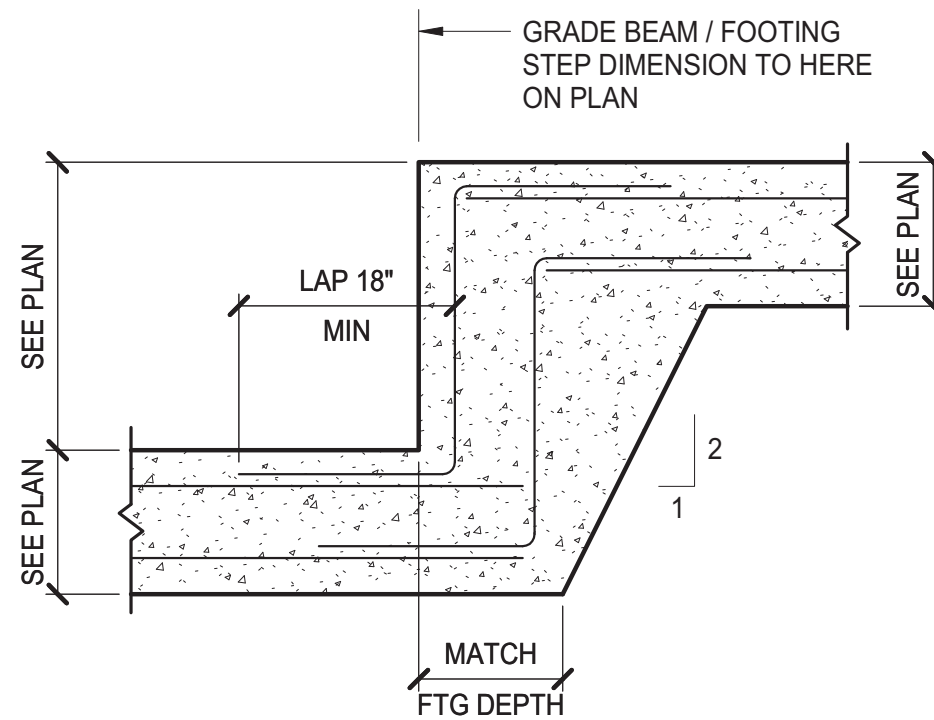
5
S-103 / N.T.S. TYPICAL HOUSEKEEPING PAD ON CONCRETE SLAB ON GRADE



6
S-103 / N.T.S. TYPICAL INTERIOR COLUMN AT SPREAD FOOTING DETAIL



7
S-103 / N.T.S. TYPICAL INTERIOR OR EXTERIOR CONCRETE STAIR ON GRADE

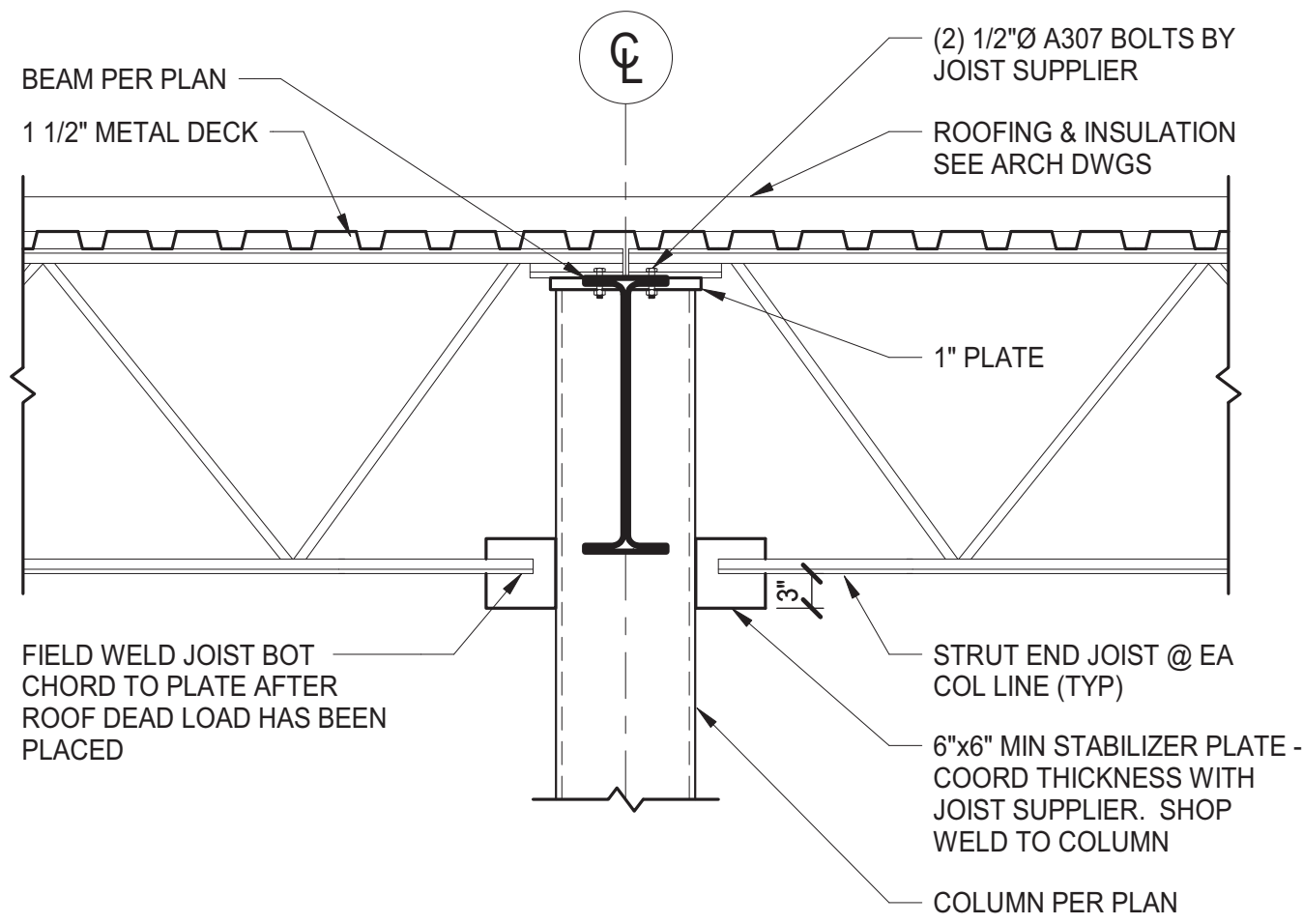


8
S-103 / N.T.S. TYPICAL STEP GRADE BEAM OR FOOTING DETAIL

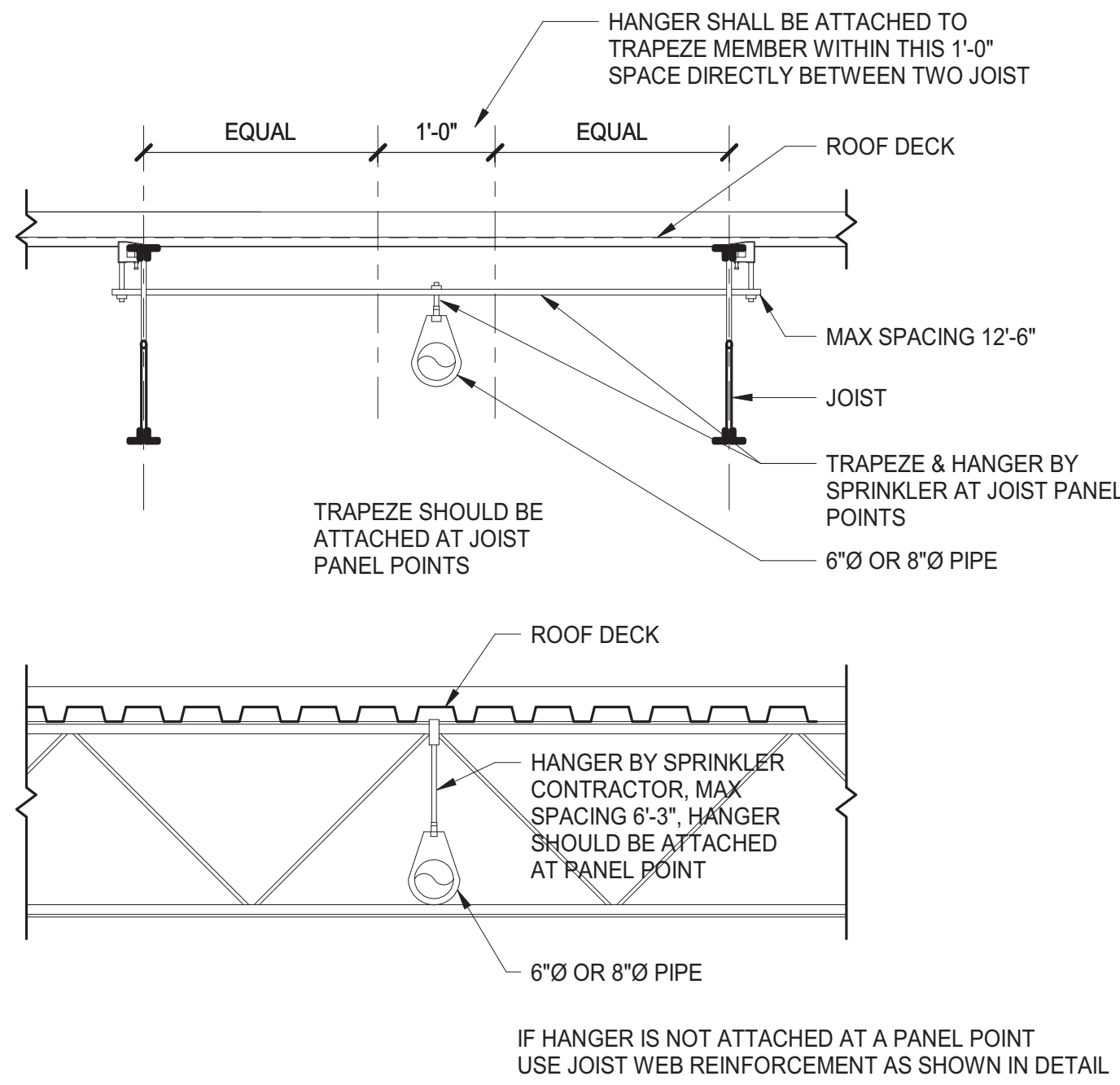
ENGINEER OF RECORD:		
STEVEN J. EHRETT MO STRUCTURAL LICENSE E-29025 MO CERTIFICATE OF AUTHORITY 000287		
No.	Date	Description
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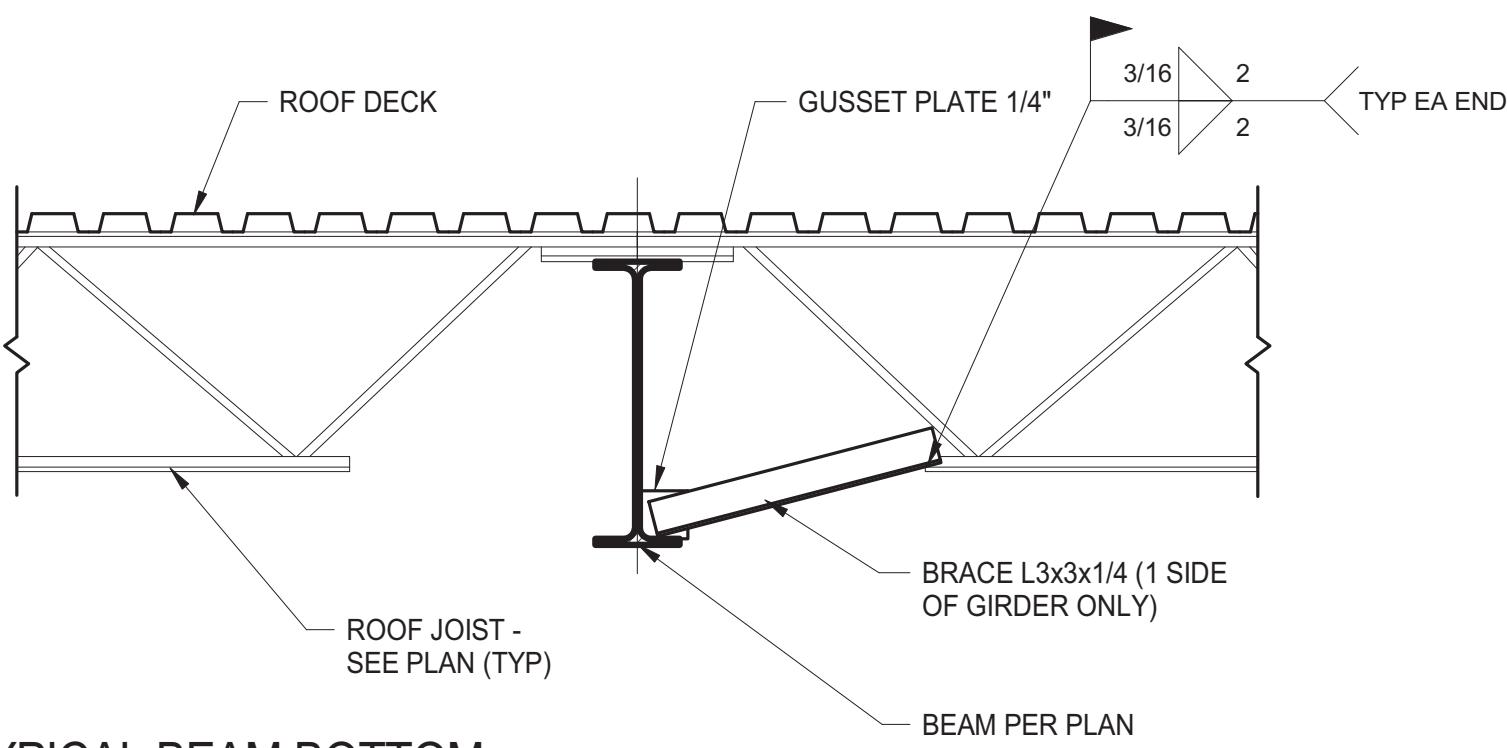
SHEET TITLE:
TYPICAL DETAILS



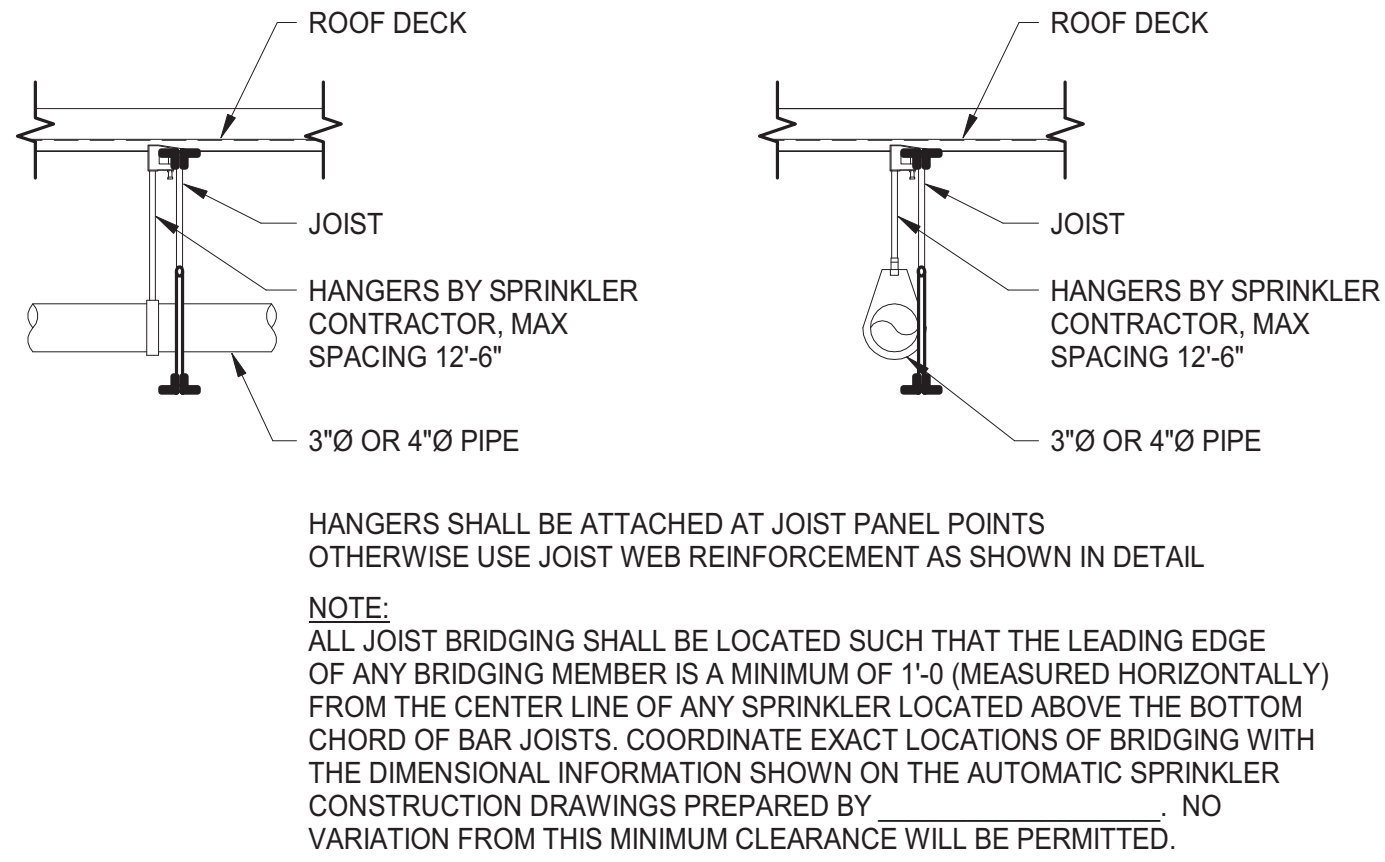
1
S-104
TYPICAL STRUT END JOIST DETAIL AT HSS COLUMN DETAIL
N.T.S.



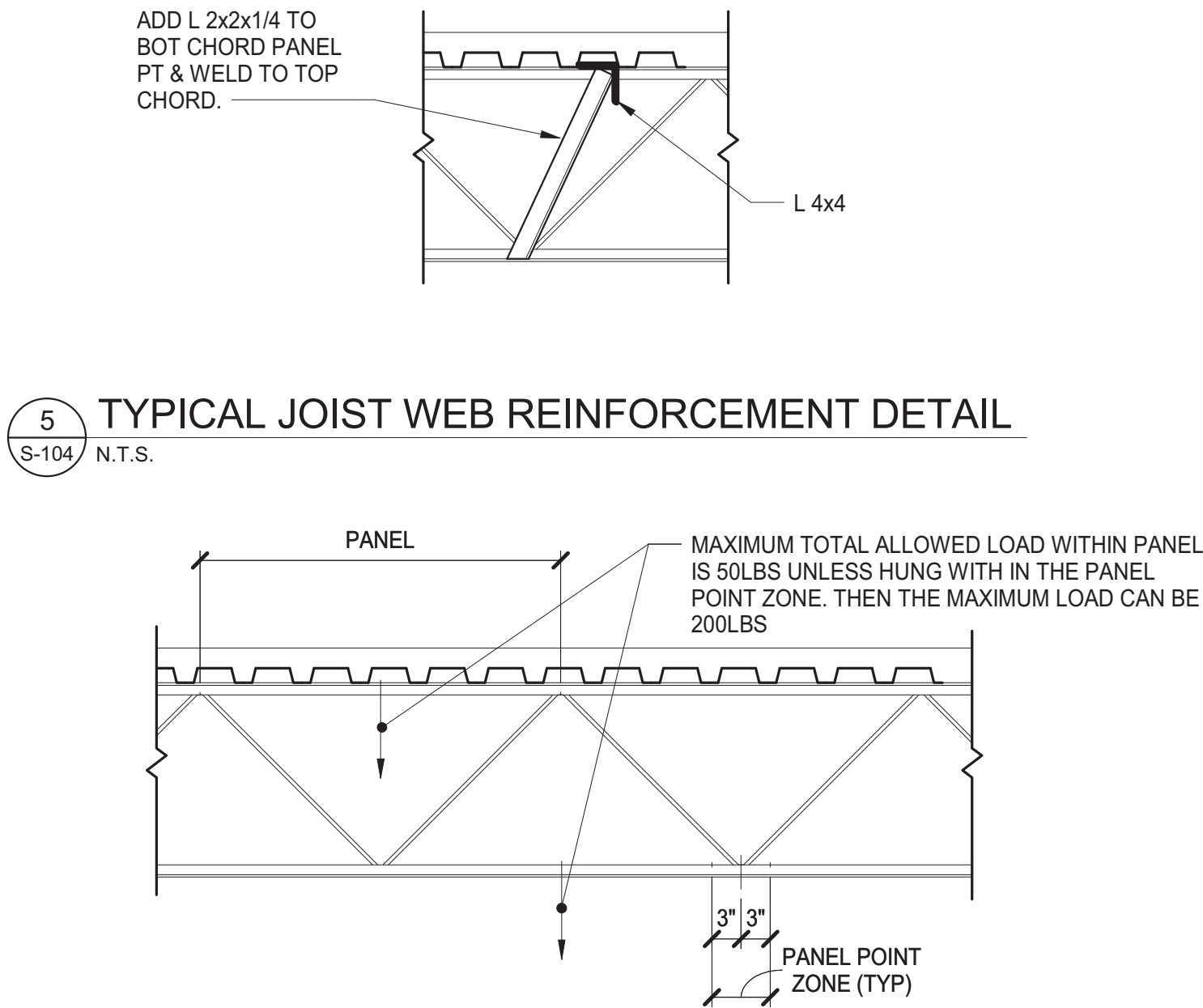
4
S-104
TYPICAL 6" DIA or 8" DIA SPRINKLER PIPES HANGER DETAIL
N.T.S.



8
S-104
TYPICAL BEAM BOTTOM FLANGE BRACING AT ROOF GIRDERS
3/4" = 1'-0"

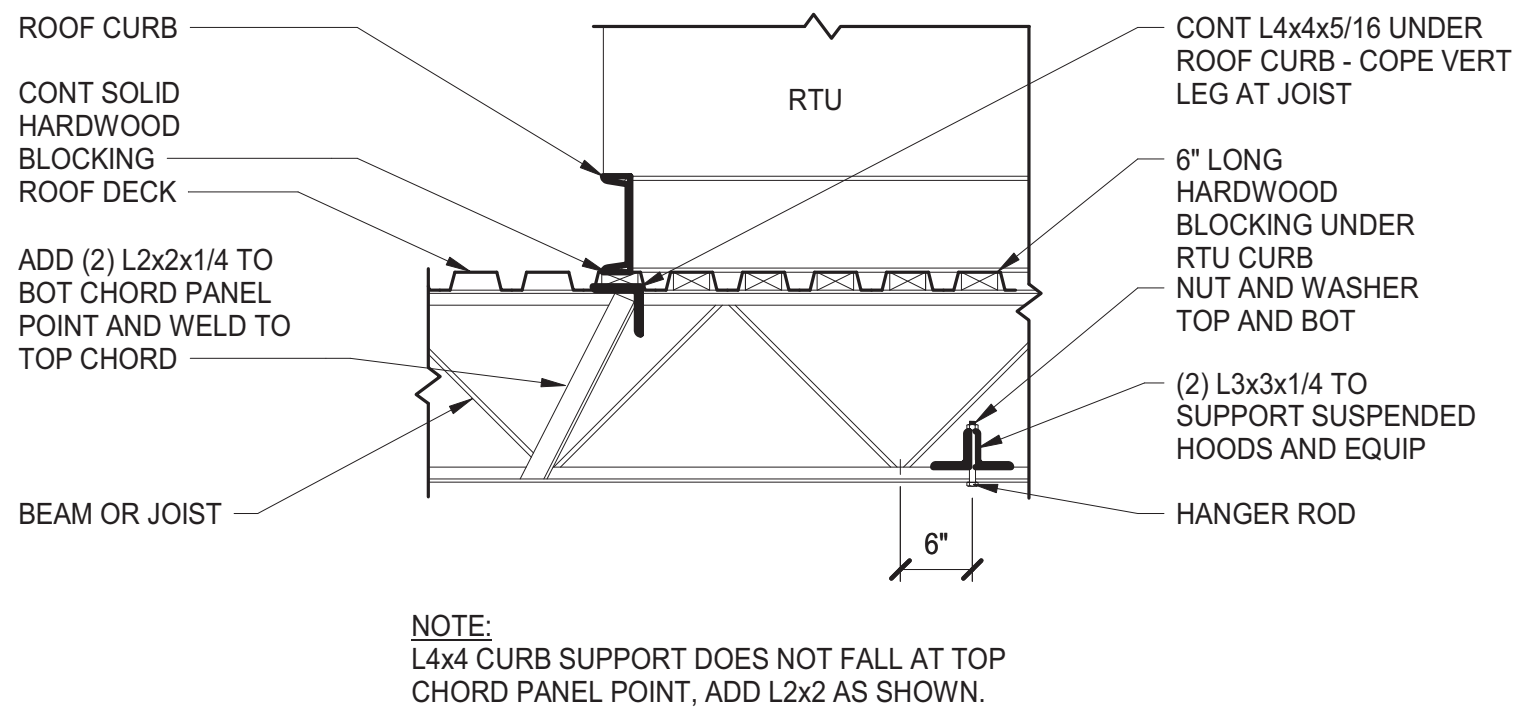


2
S-104
TYPICAL 3" DIA OR 4" DIA SPRINKLER PIPES HANGER DETAIL
N.T.S.

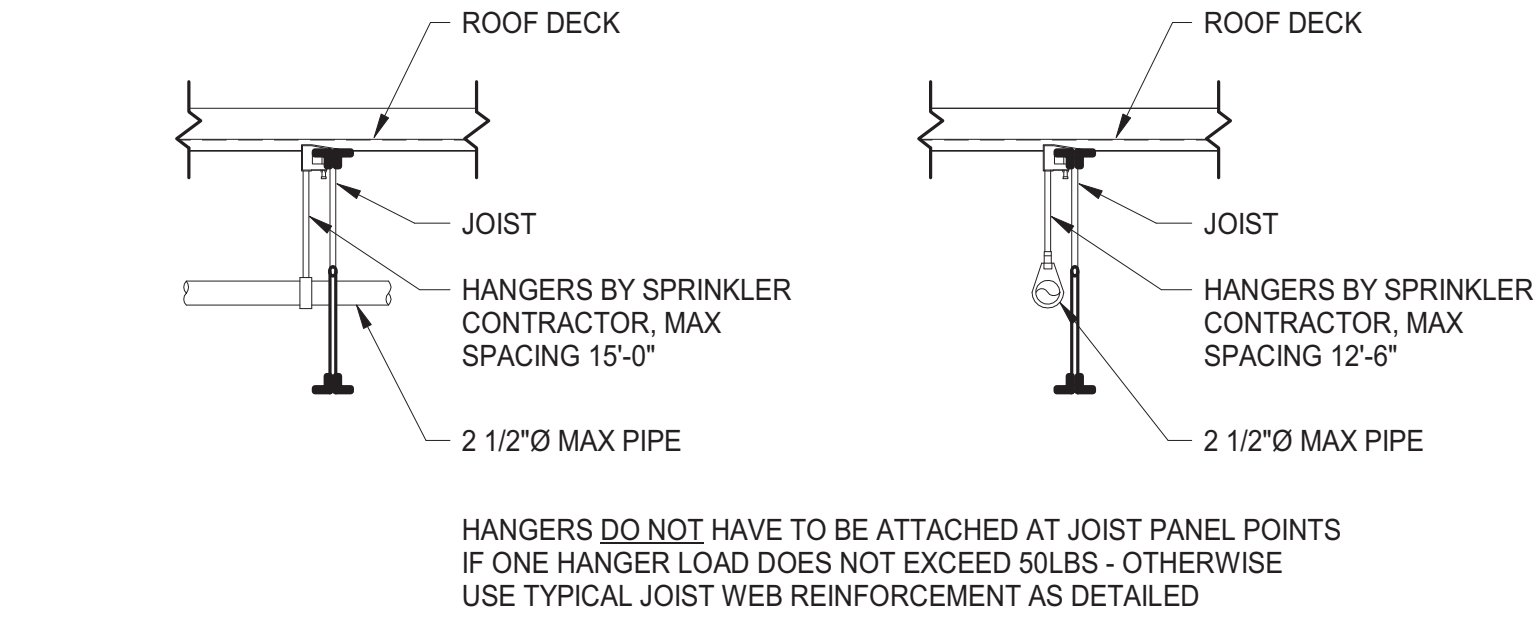


5
S-104
TYPICAL JOIST WEB REINFORCEMENT DETAIL
N.T.S.

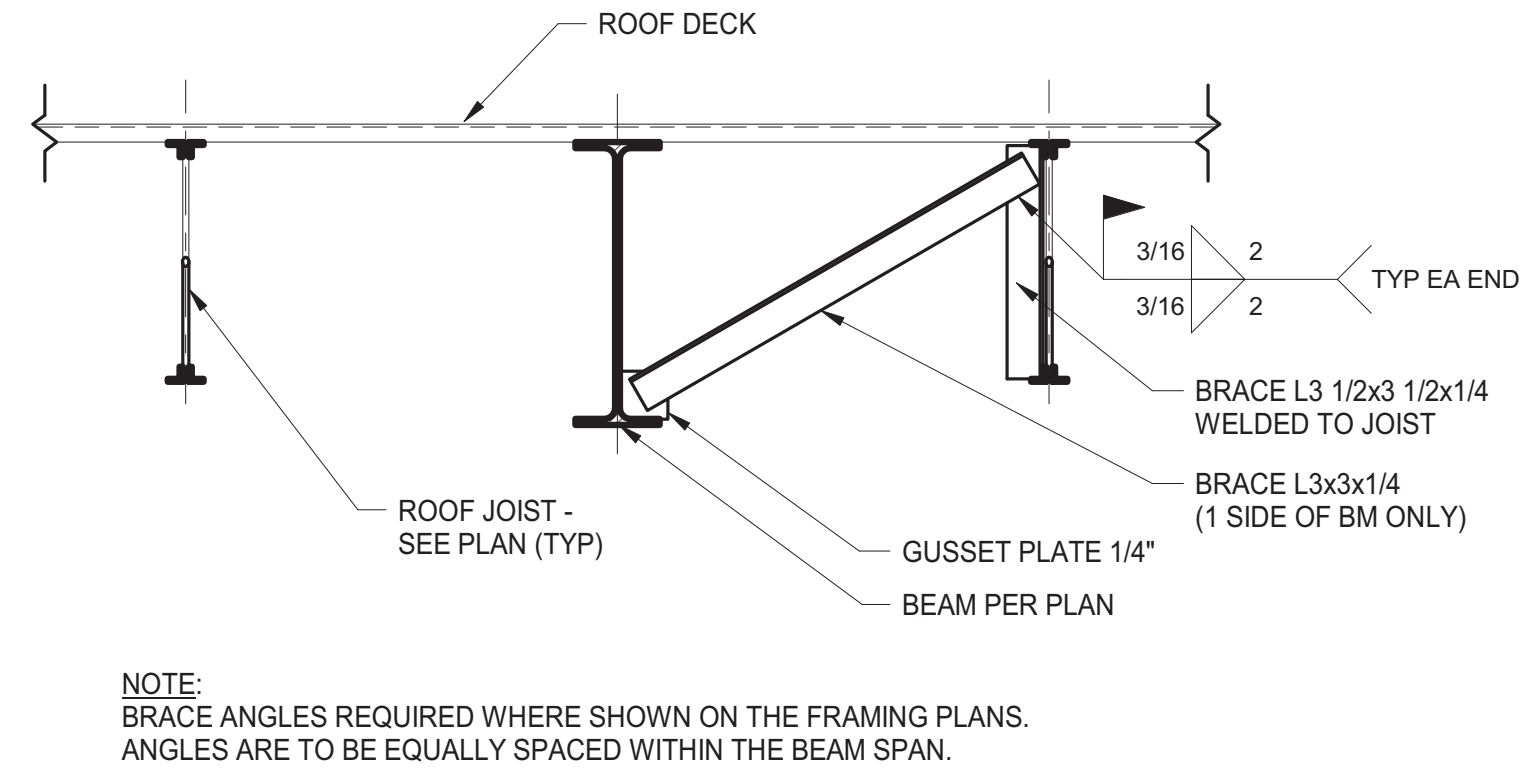
6
S-104
TYPICAL MISCELLANEOUS HANGERS DETAIL
N.T.S.



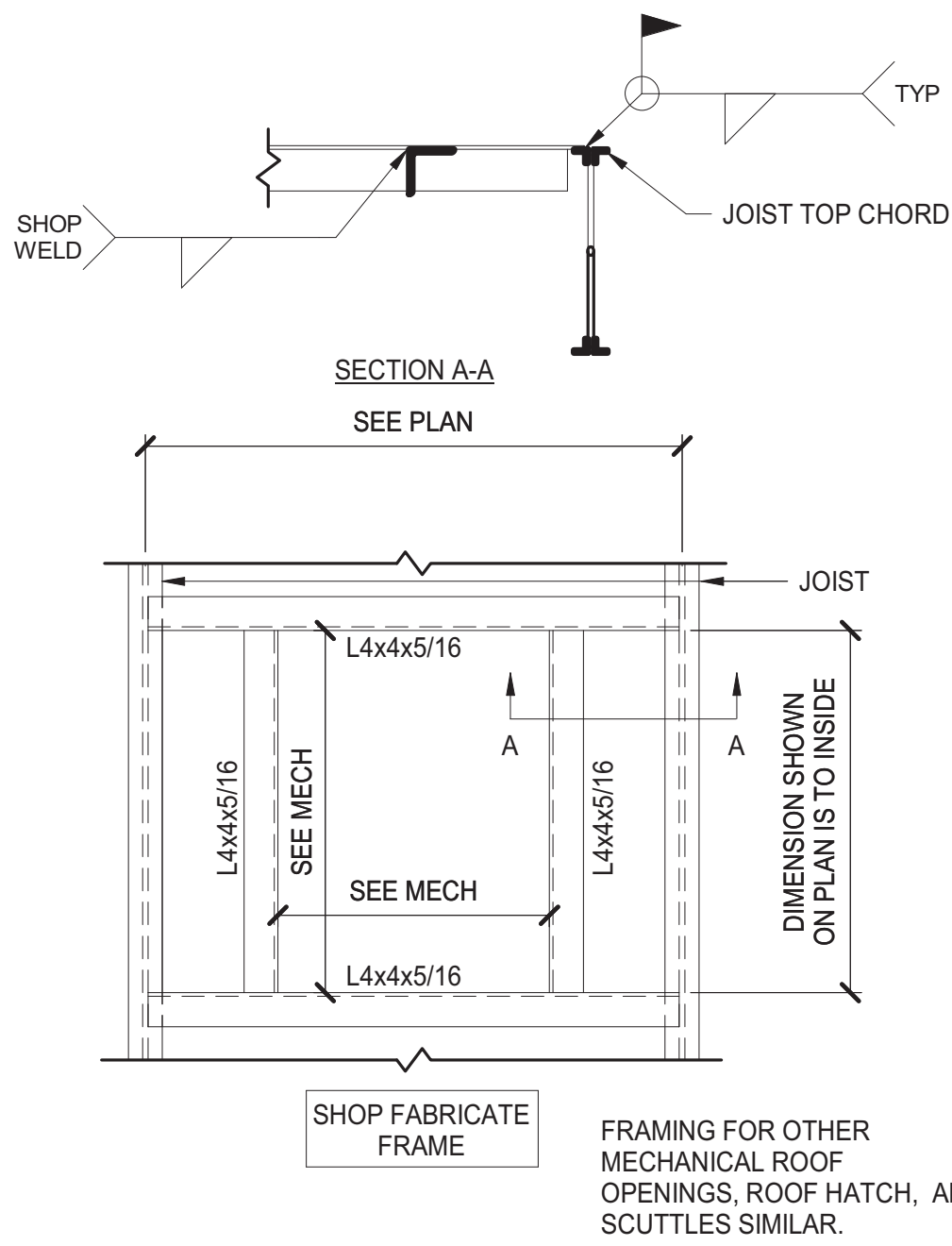
9
S-104
TYPICAL ROOF TOP UNITS DETAIL
3/4" = 1'-0"



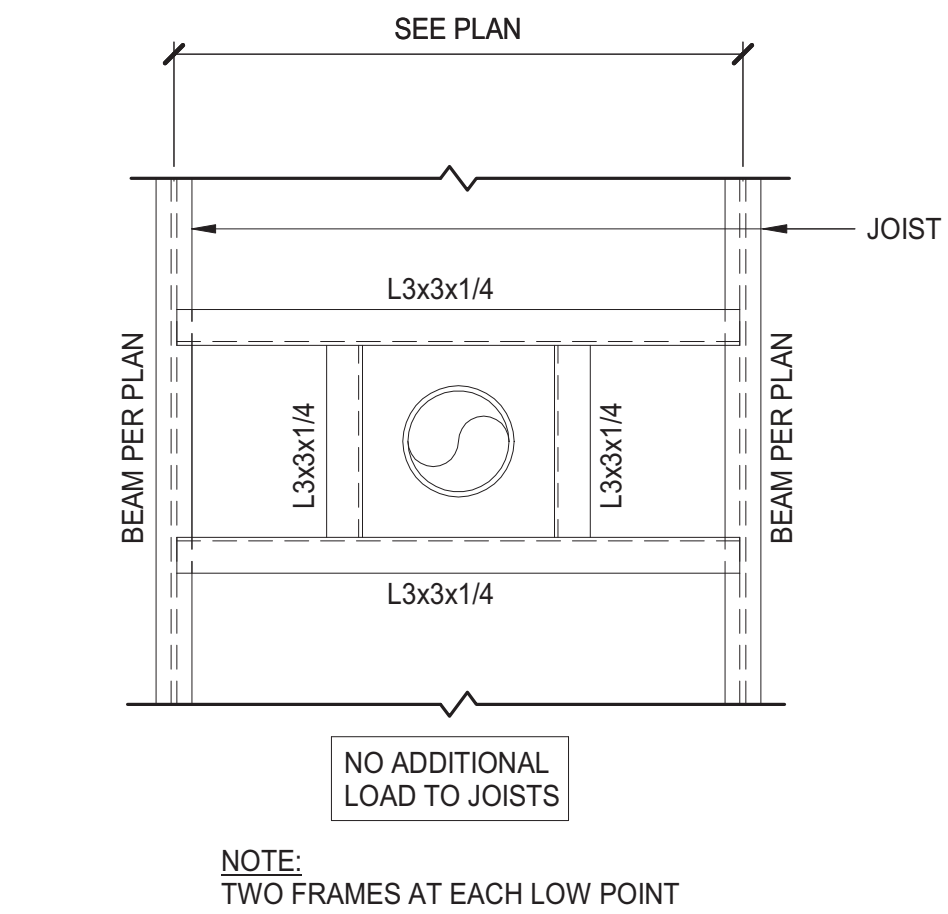
3
S-104
TYPICAL 2 1/2" DIA MAX SPRINKLER PIPES HANGER DETAIL
N.T.S.



7
S-104
TYPICAL BEAM BOTTOM FLANGE BRACING AT ROOF BEAMS
3/4" = 1'-0"

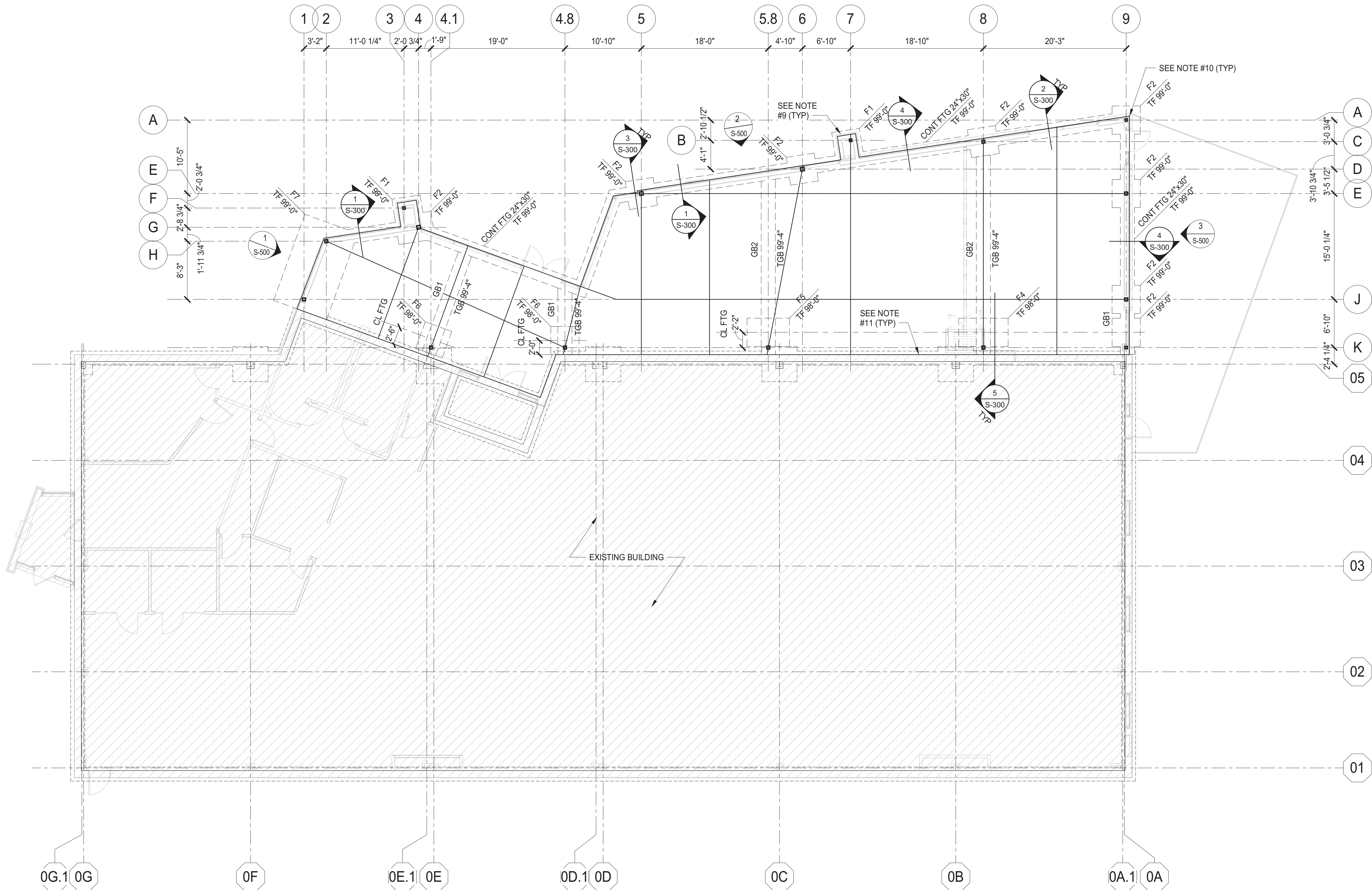


10
S-104
TYPICAL RTU ROOF FRAMING DETAIL
3/4" = 1'-0"



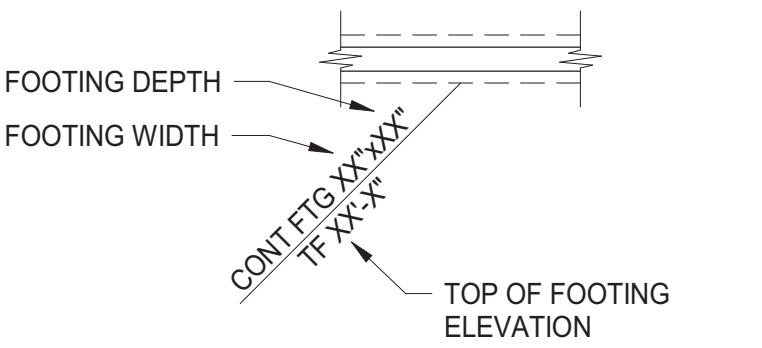
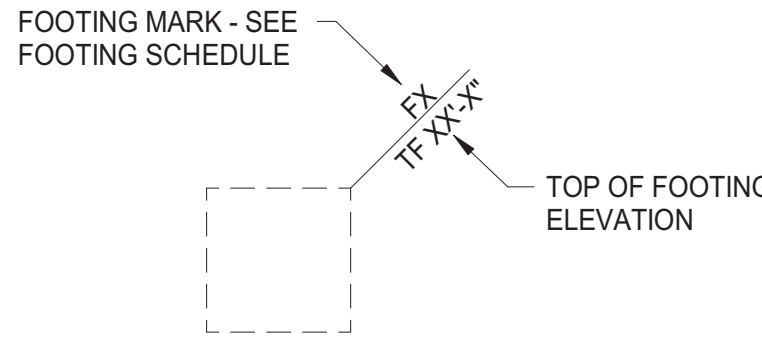
11
S-104
TYPICAL FRAME FOR ROOF DRAIN AND OVERFLOW DETAIL
(OTHER OPENINGS SIMILAR)
3/4" = 1'-0"

No.	Date	Description
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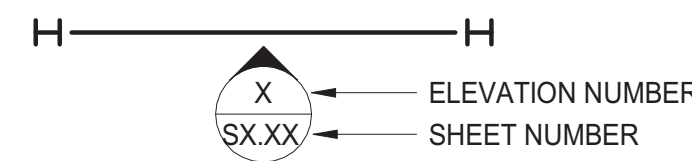


FOUNDATION NOTES:

- SEE SHEET SERIES S-100 FOR GENERAL NOTES AND TYPICAL DETAILS.
- SEE SHEET SERIES S-500 FOR VERTICAL BRACING ELEVATIONS AND DETAILS.
- SEE SHEET SERIES S-600 FOR COLUMN SCHEDULE AND BASE PLATE DETAILS.
- FINISH FLOOR ELEVATION = 100'-0" (U.S.G.S. DATUM = 876.79).
- SLAB CONSTRUCTION: 4" NORMAL WEIGHT CONCRETE SLAB ON GRADE ON 10 MIL VAPOR RETARDER ON 6" MINIMUM COMPACTED GRANULAR FILL. REINFORCE SLAB WITH ONE LAYER 6x6-W2.1xW2.1 WWF CENTERED IN SLAB.
- "TF" NOTED ON PLAN INDICATES TOP OF FOOTING ELEVATION.
- "TC" NOTED ON PLAN INDICATES TOP OF CONCRETE ELEVATION.
- "TW" NOTED ON PLAN INDICATES TOP OF WALL ELEVATION.
- EXTEND FOOTING AND SLAB FOR WALL FRAMING. REINF EXTENSION W/ #5@12" OC T&B.
- PROVIDE CORNER BARS TO MATCH SLAB AND FOOTING REINFORCEMENT. LAP CONTINUOUS #4 SLAB BAR @ OUTSIDE CORNER OF COLUMN. PROVIDE ASPHALTIC COATING TO ALL EXPOSED BASE PLATES BELOW GRADE.
- DOWEL SLAB TO EXISTING W/ #4 x 2'-6" @ 12" OC. ANCHOR W/ HILTI HY200 (6" EMBED)



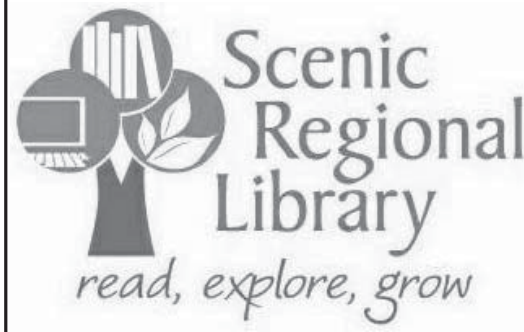
TYPICAL FOOTING DESIGNATION



TYPICAL BRACING DESIGNATION

FOOTING SCHEDULE			
MARK	SIZE	REINFORCING EACH WAY TOP & BOTTOM UNO	REMARKS
F1	3'-0"x3'-0"x2'-6"	(4) #5 EW	
F2	4'-0"x4'-0"x2'-6"	(5) #5 EW	
F4	4'-0"x7'-0"x1'-4"	#5@8" OC EW	
F5	4'-0"x6'-0"x1'-4"	#5@8" OC EW	
F6	4'-0"x4'-0"x1'-4"	#5@8" OC EW	
F7	8'-0"x13'-0"x2'-6"	#5@8" OC EW	

GRADE BEAM SCHEDULE				
MARK	SIZE	REINFORCING T&B, UNO	TIES	REMARKS
GB1	24"x30"	(4) #5 CONT T&B	#4 TIES @ 12" OC (SPA 12@6" FROM EXIST)	
GB2	24"x16"	(4) #6 CONT T&B	#4 TIES @ 12" OC (SPA 12@6" FROM EXIST)	



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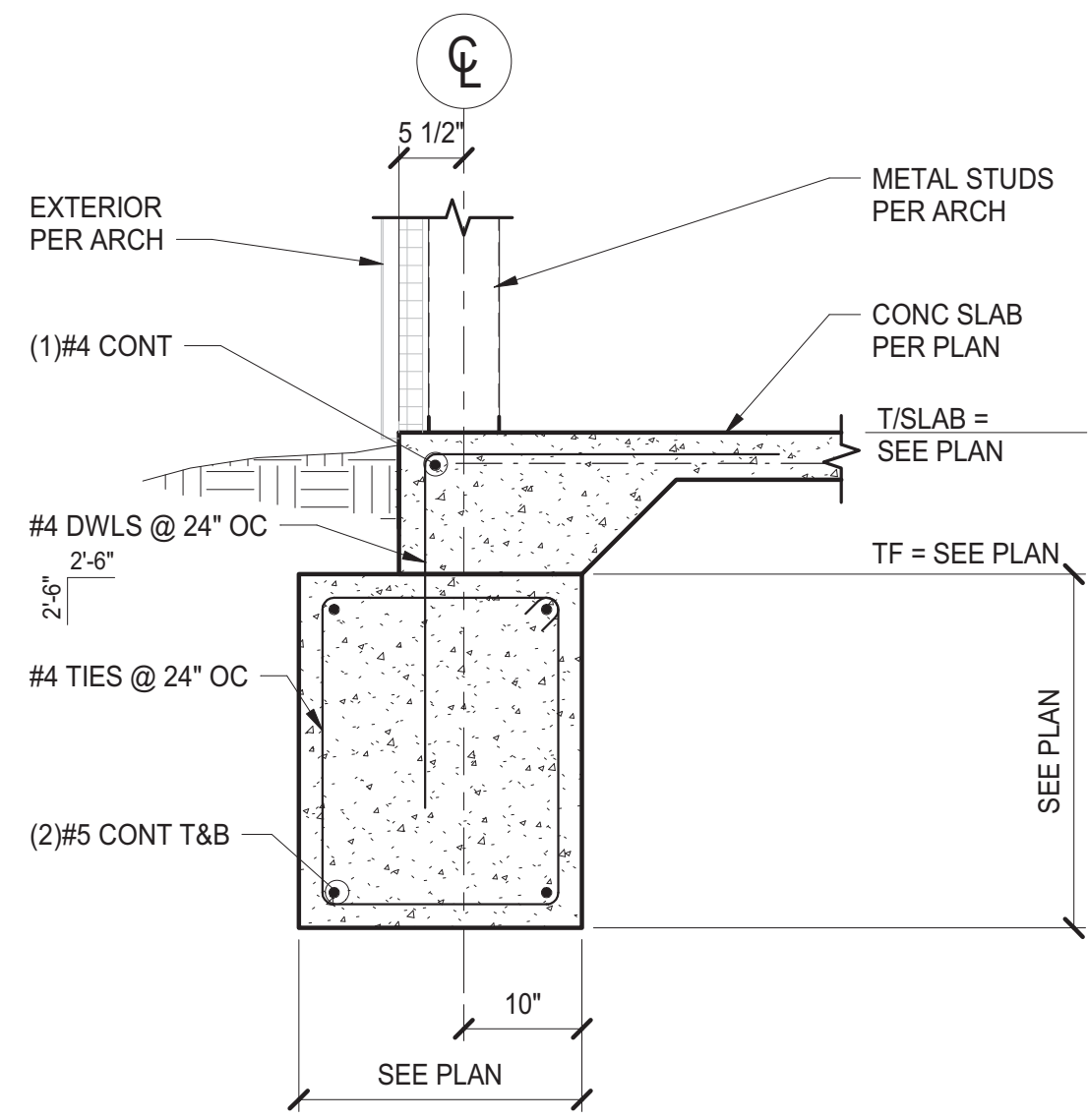
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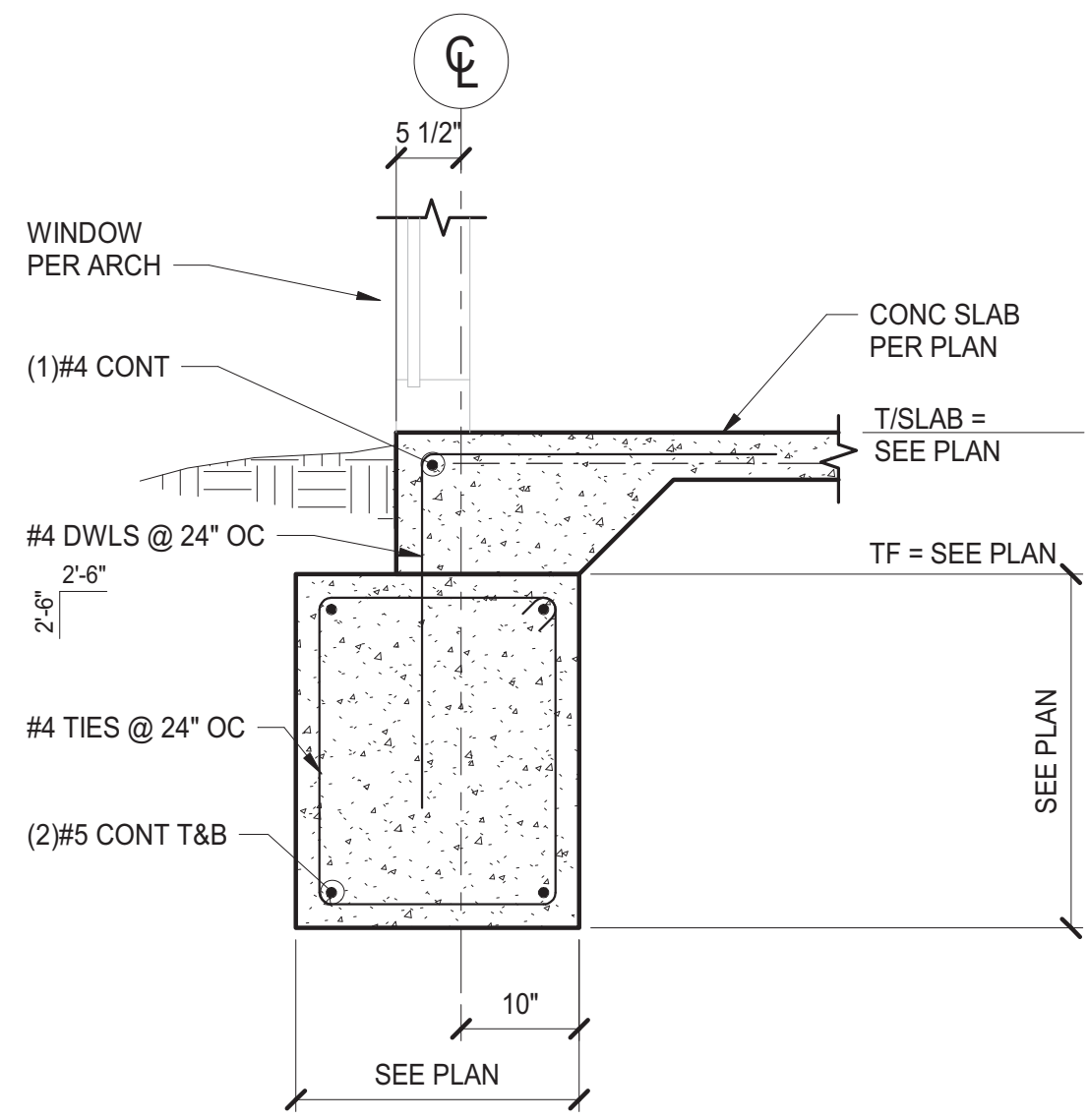
SHEET TITLE:
FIRST FLOOR FOUNDATION PLAN

S-201

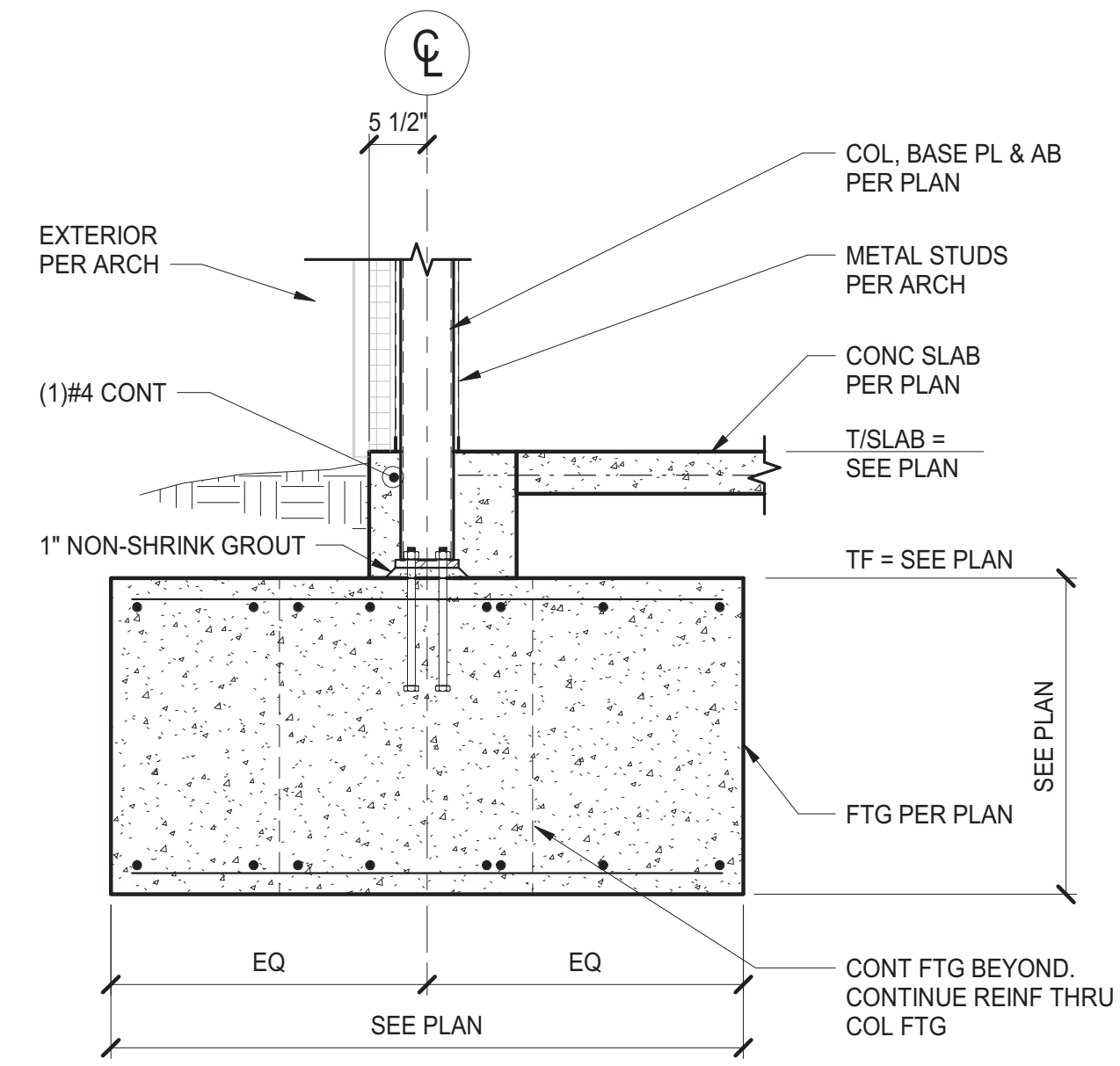
1 FIRST FLOOR FOUNDATION PLAN
S-201 1/8" = 1'-0"



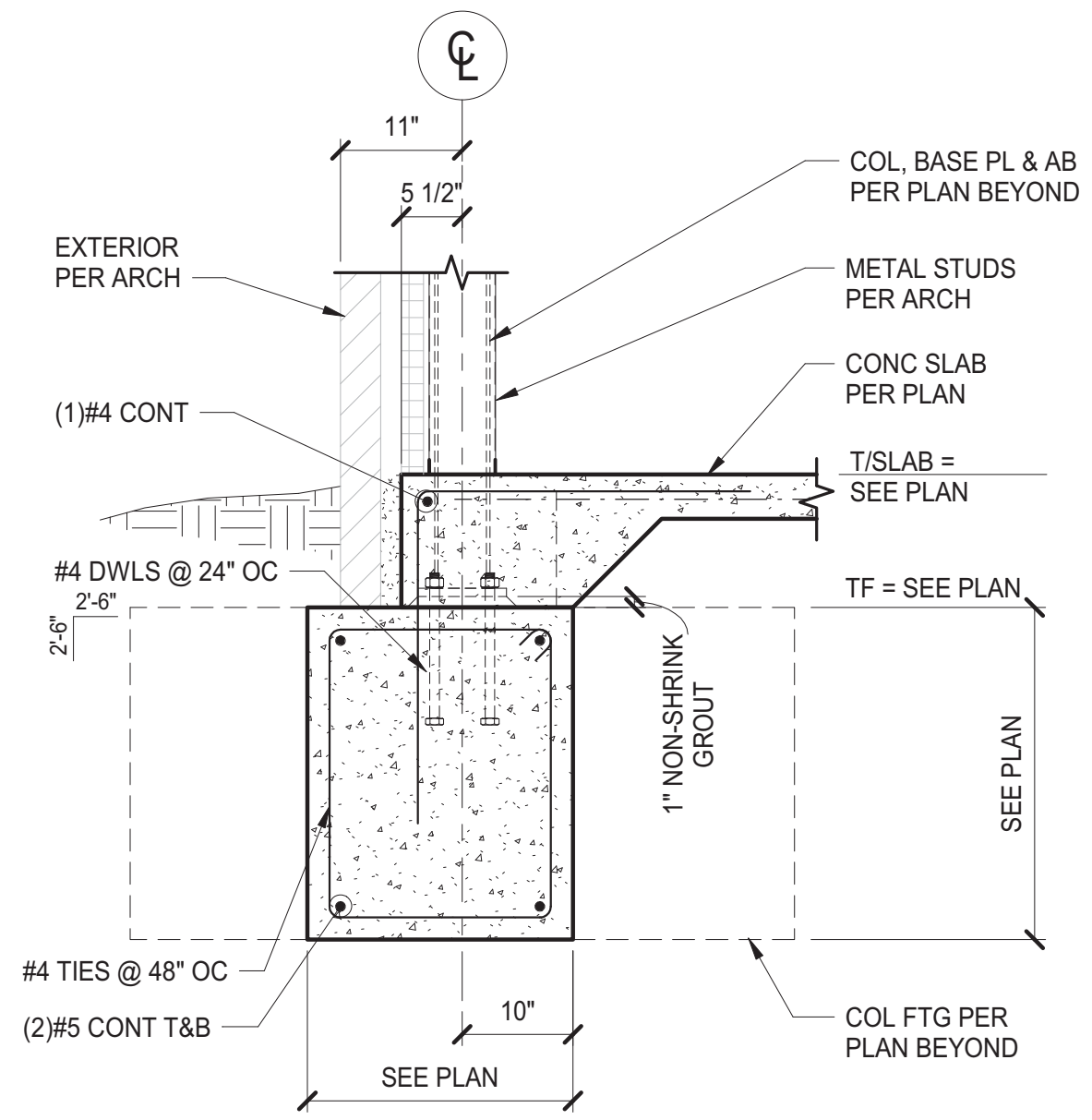
1 SECTION
S-300 3/4" = 1'-0"



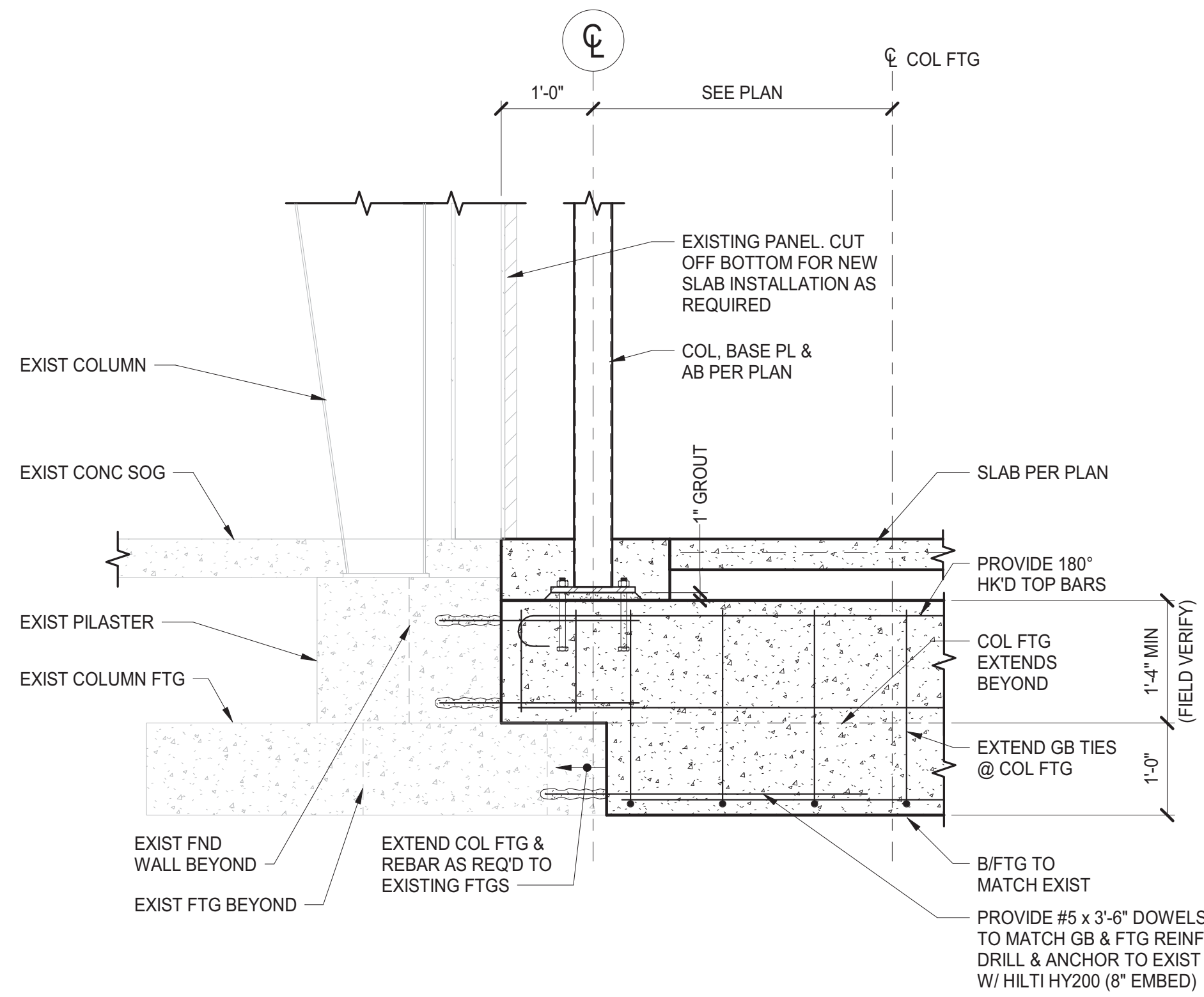
2 SECTION
S-300 3/4" = 1'-0"



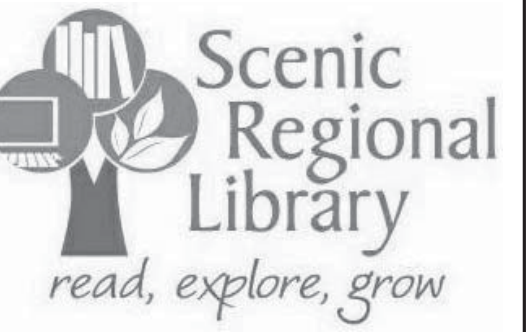
3 SECTION
S-300 3/4" = 1'-0"



4 SECTION
S-300 3/4" = 1'-0"



5 SECTION
S-300 3/4" = 1'-0"



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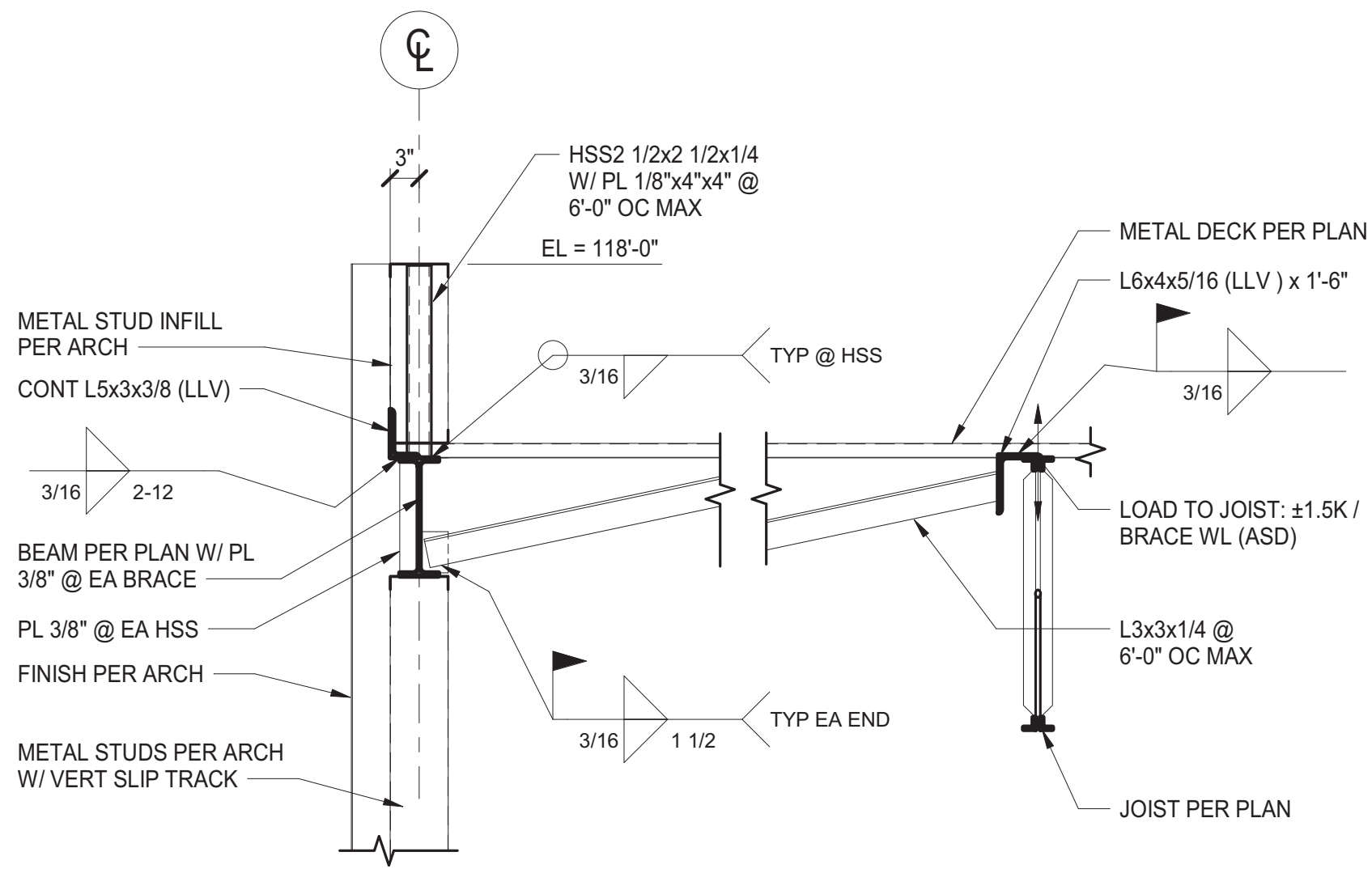
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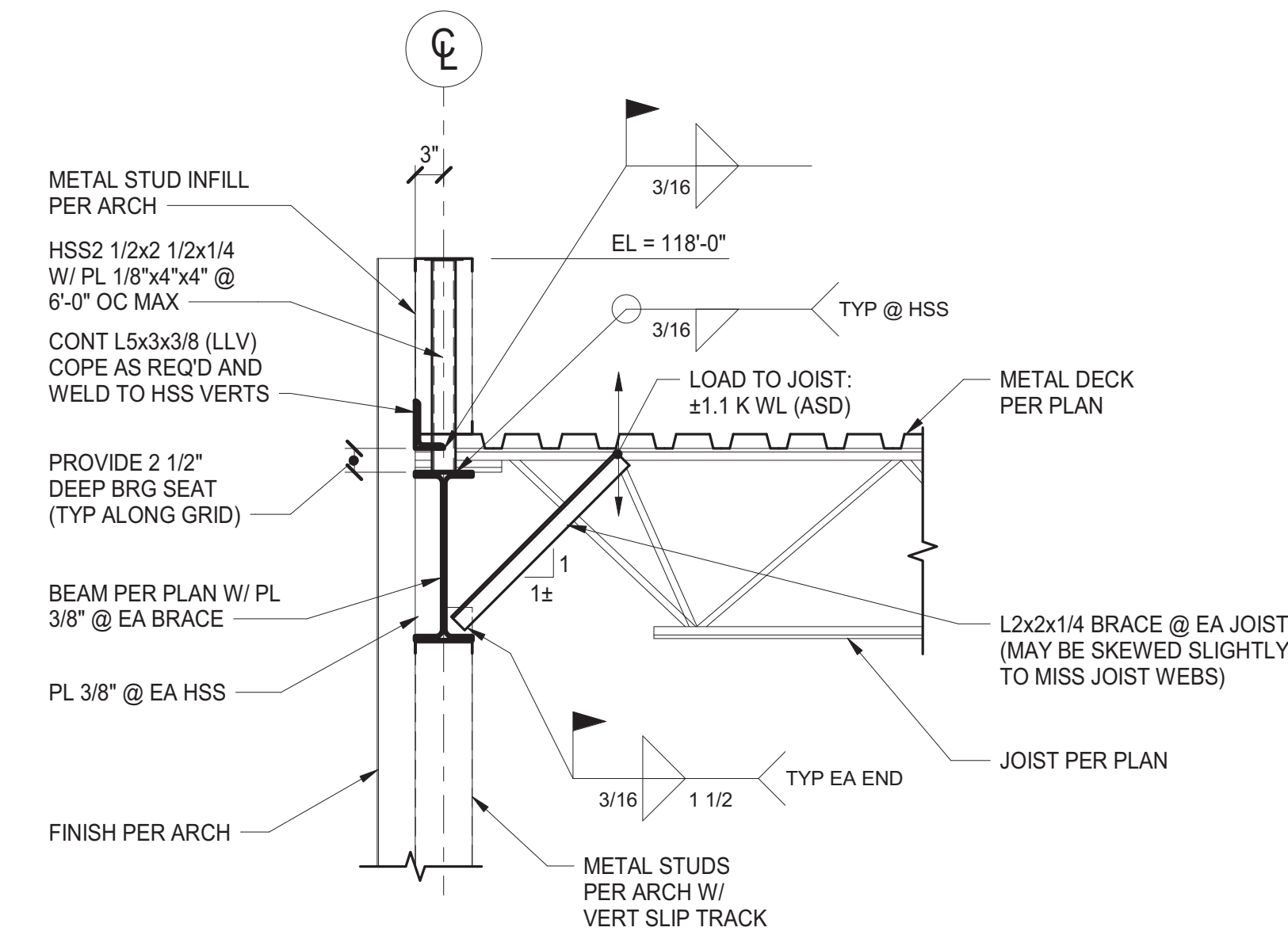
PROJECT NUMBER: **16023**

SHEET TITLE:
FOUNDATION SECTIONS

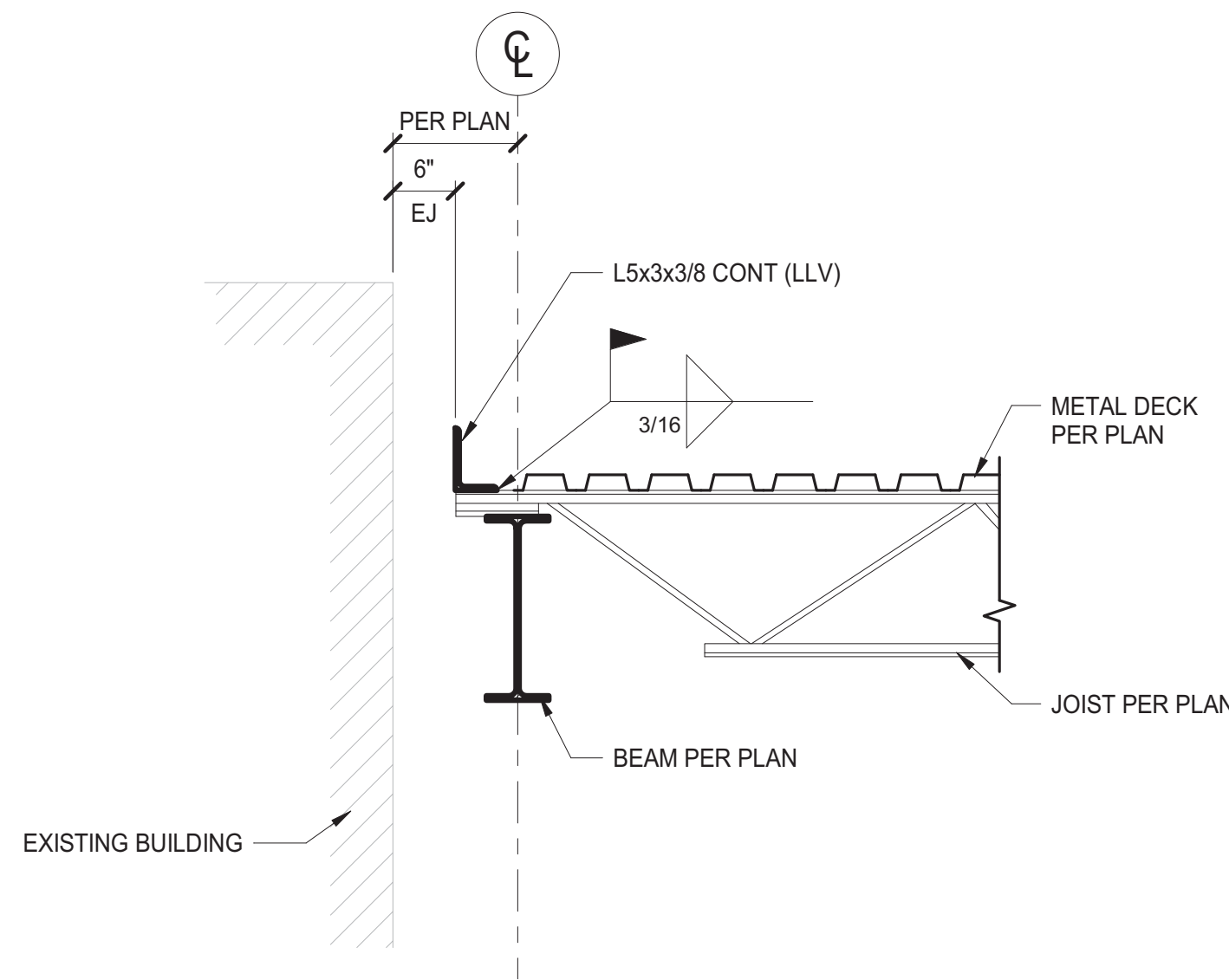
S-300



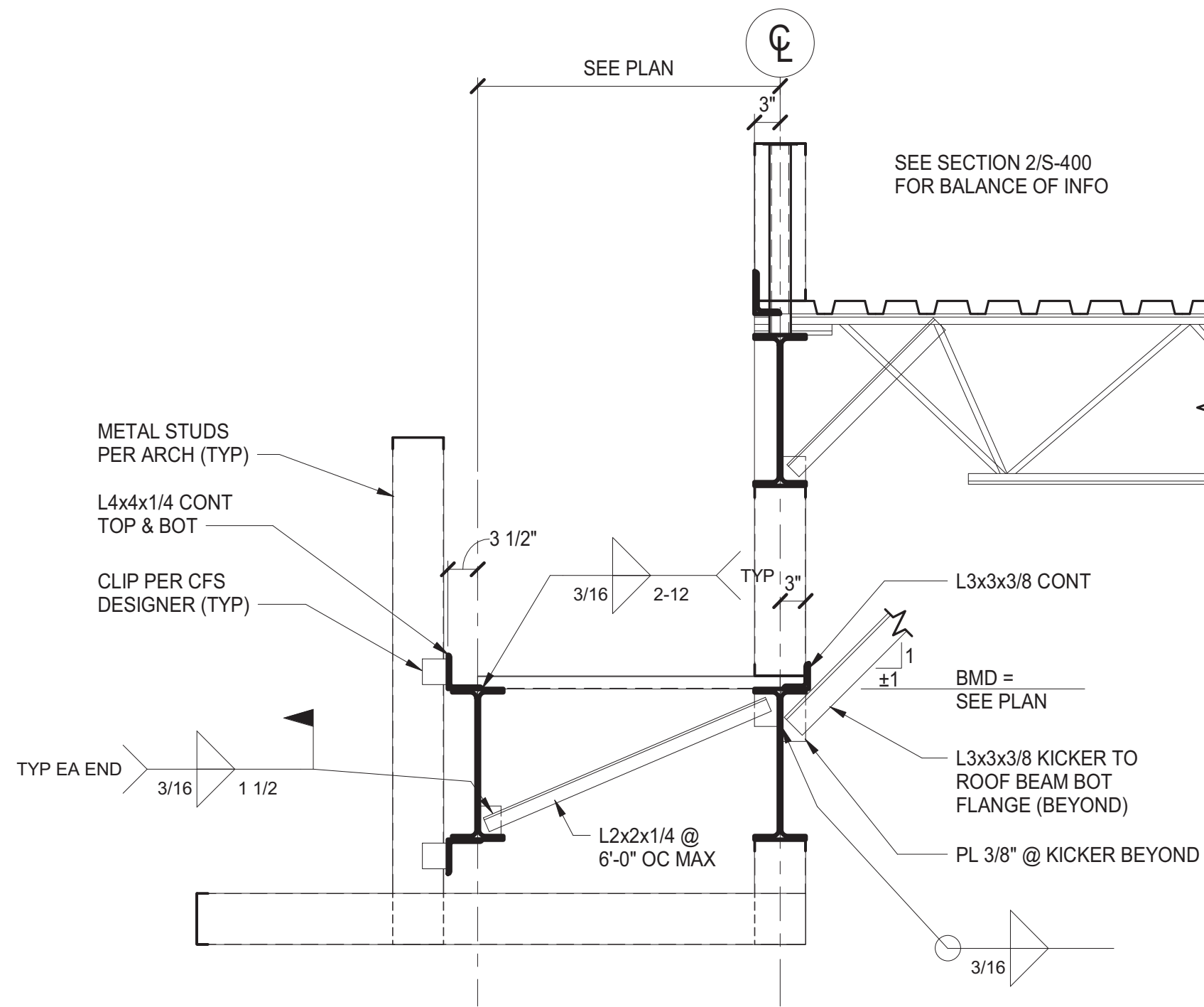
1 SECTION
S-400 3/4" = 1'-0"



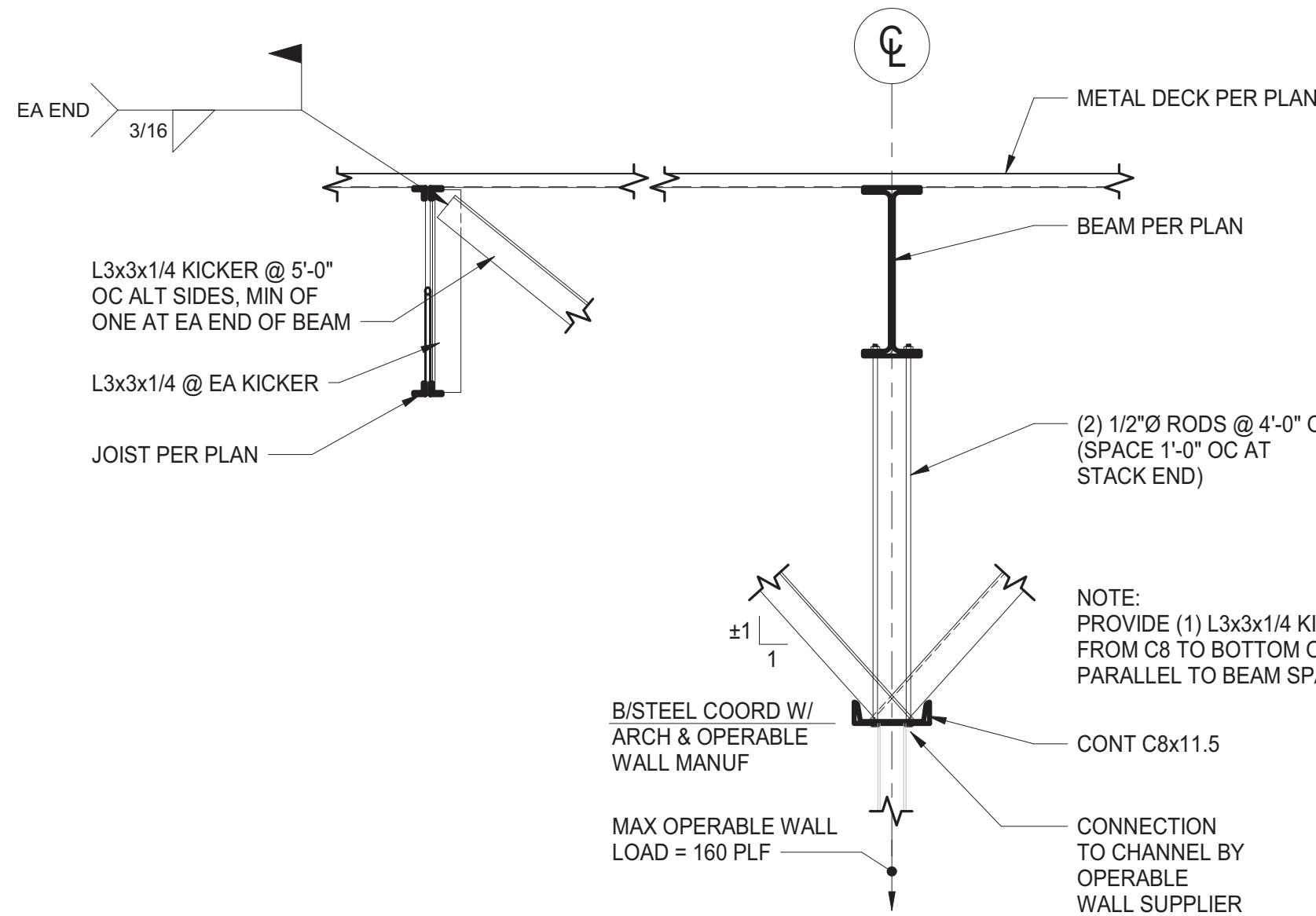
2 SECTION
S-400 3/4" = 1'-0"



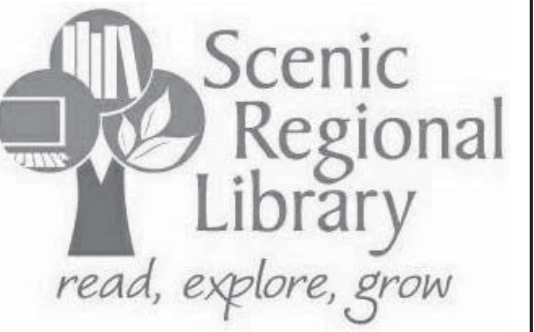
3 SECTION
S-400 3/4" = 1'-0"



4 SECTION
S-400 3/4" = 1'-0"



5 SECTION
S-400 3/4" = 1'-0"



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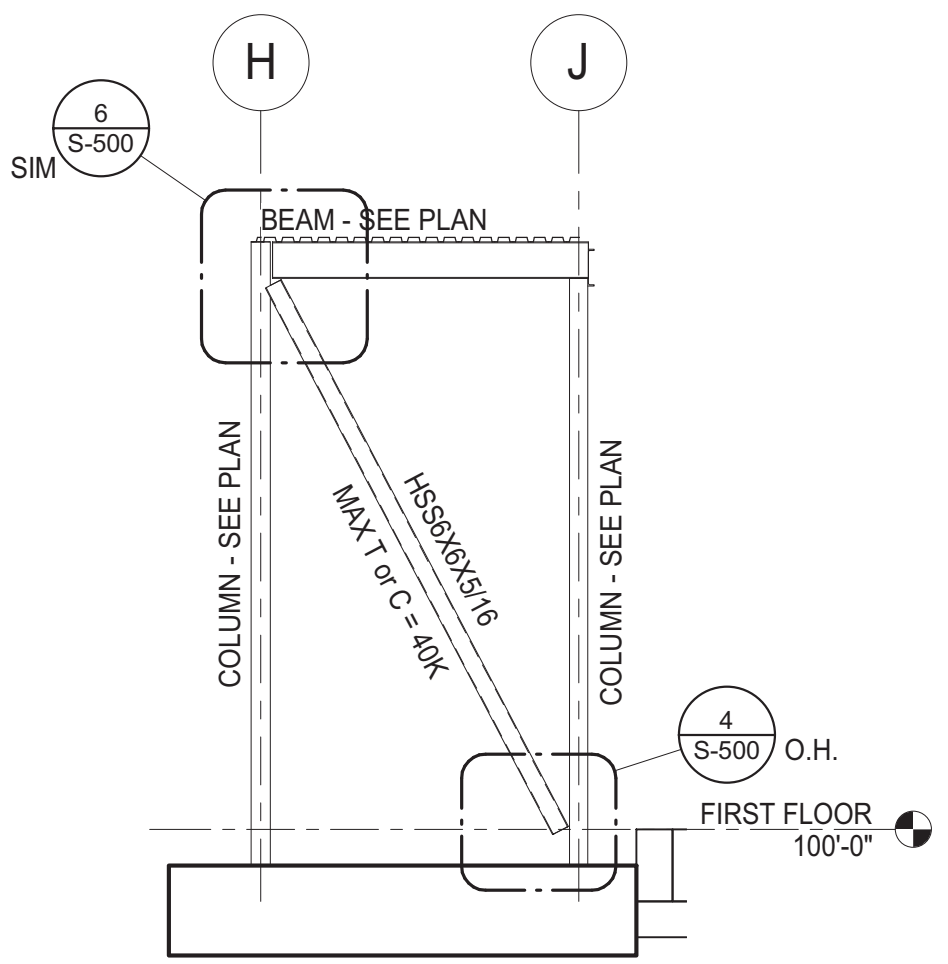
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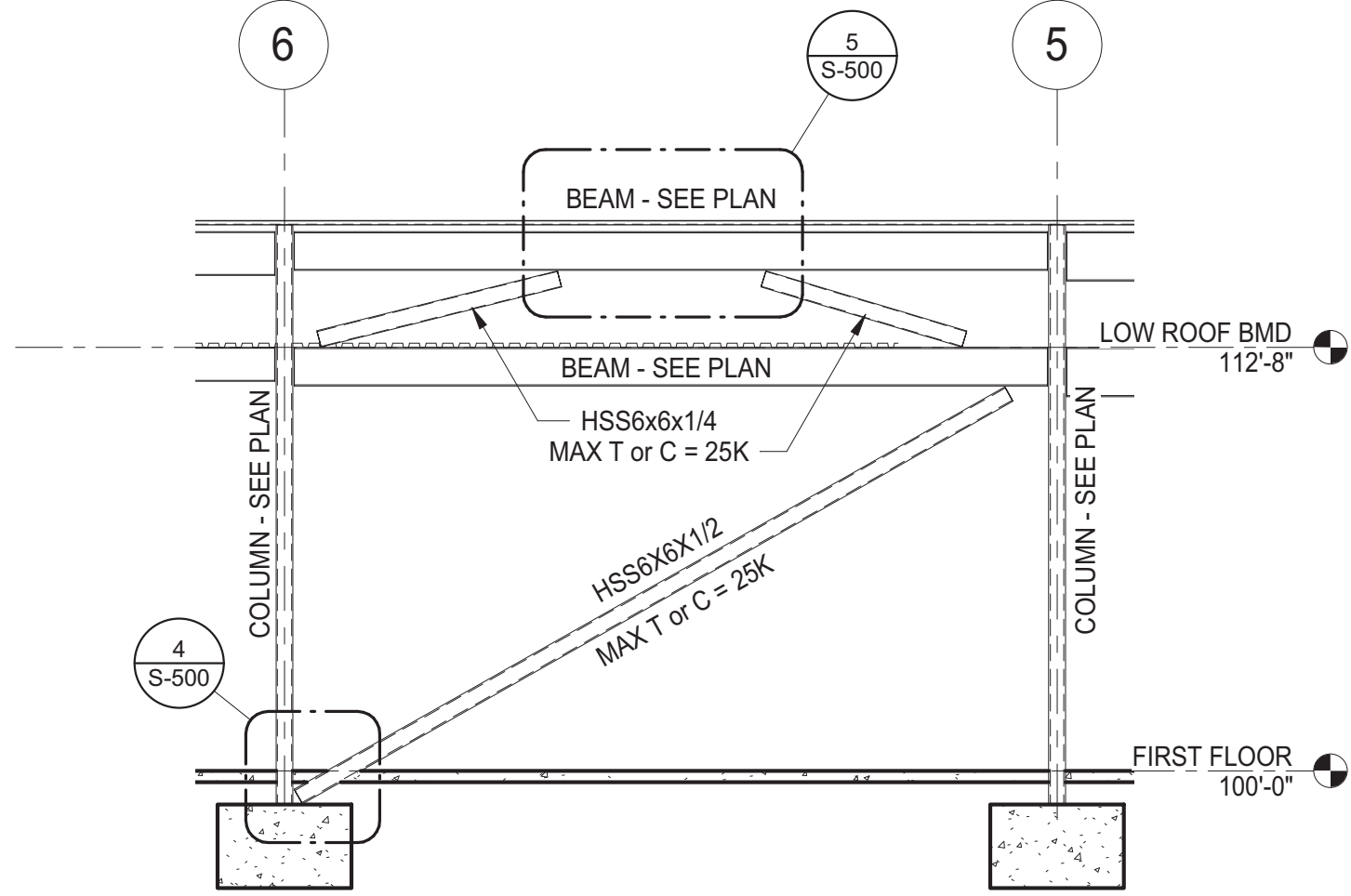
SHEET TITLE:
FRAMING SECTIONS

S-400



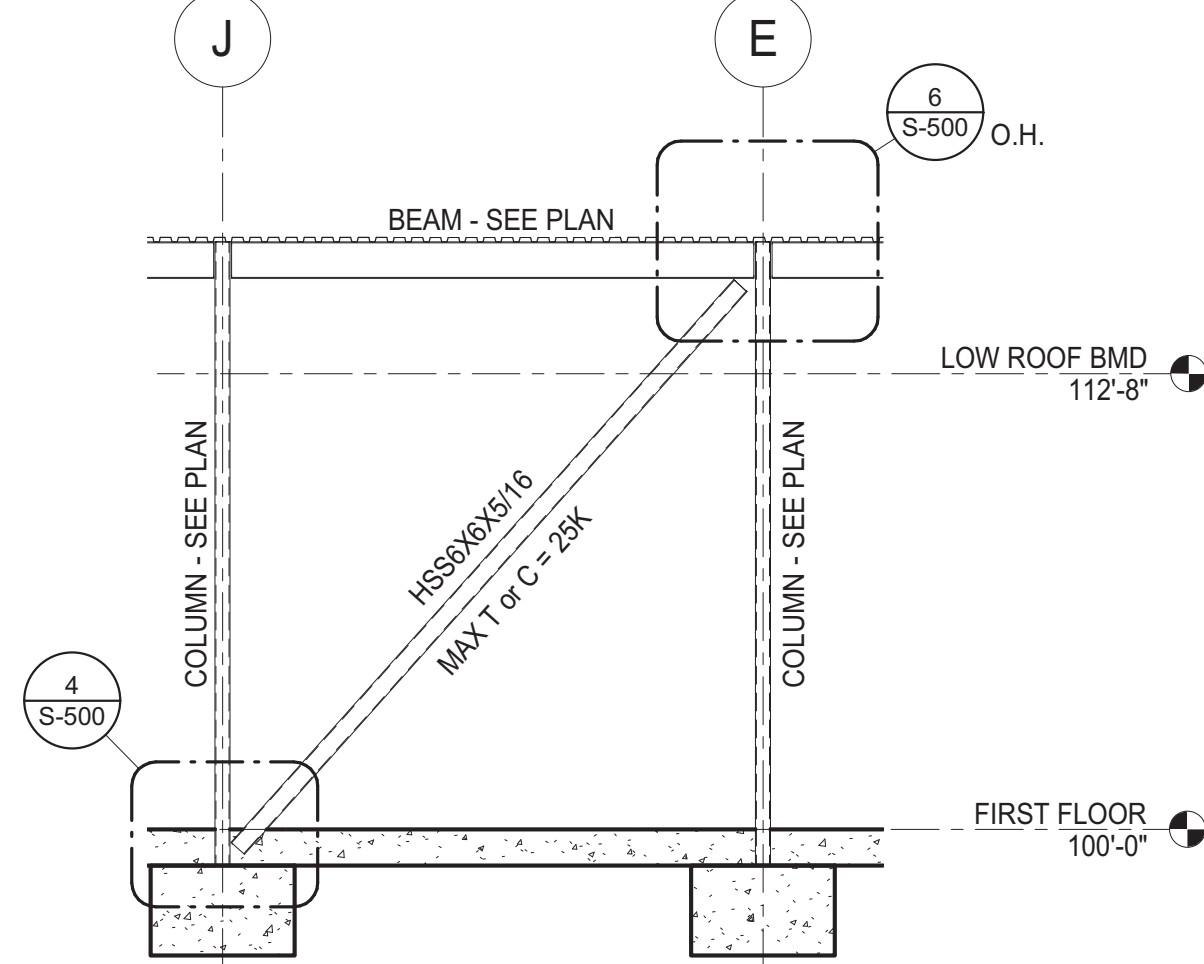
1
S-500
3/16" = 1'-0"

BRACE FRAME ELEVATION



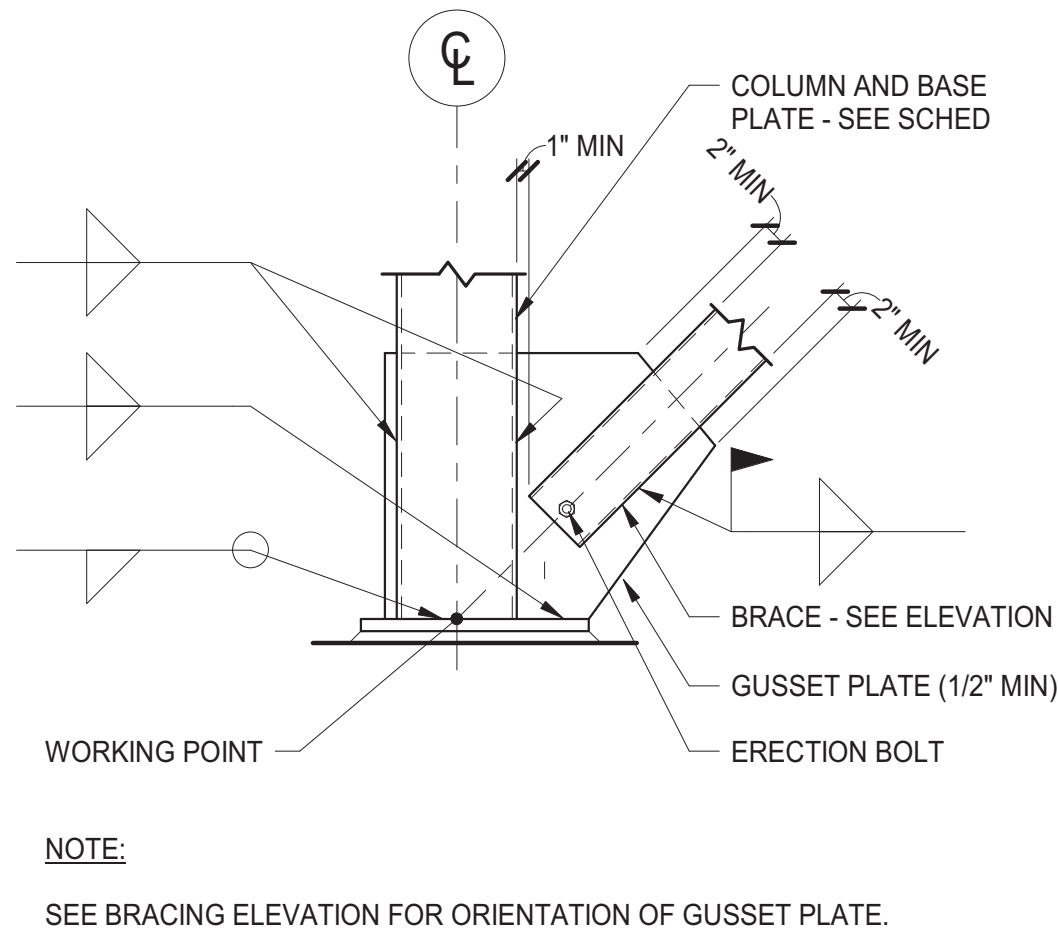
2
S-500
3/16" = 1'-0"

BRACE FRAME ELEVATION



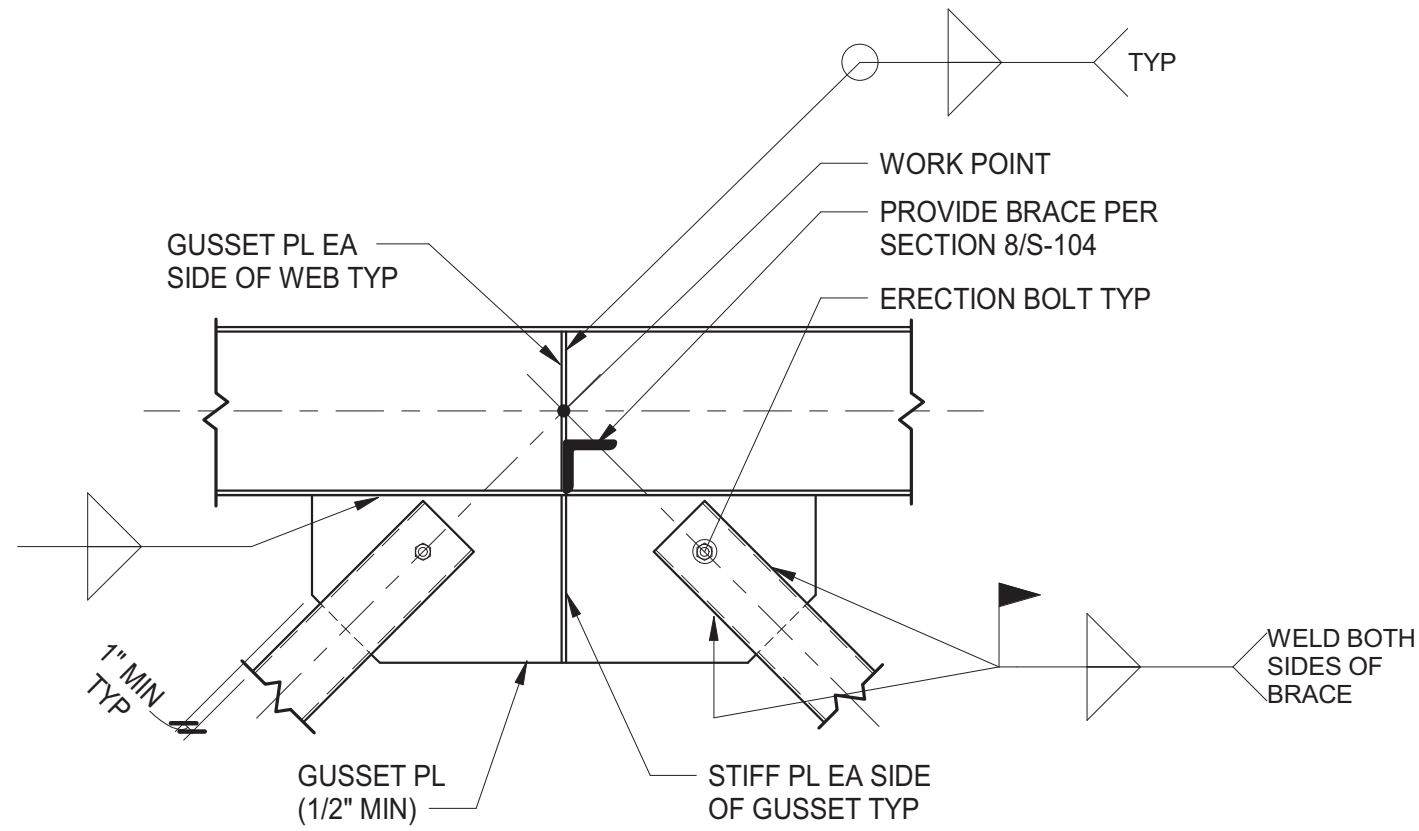
3
S-500
3/16" = 1'-0"

BRACE FRAME ELEVATION



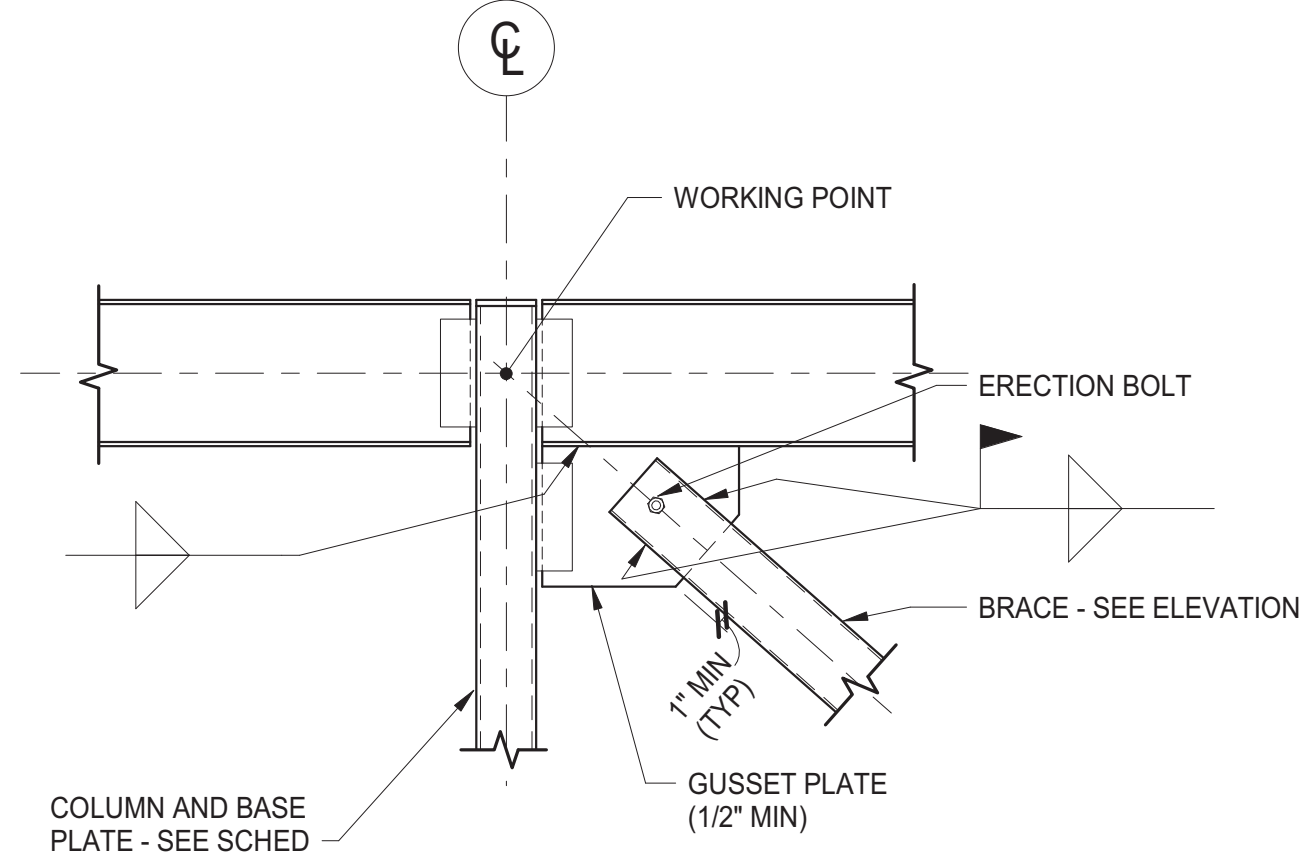
4
S-500
3/4" = 1'-0"

BRACE DETAIL



5
S-500
3/4" = 1'-0"

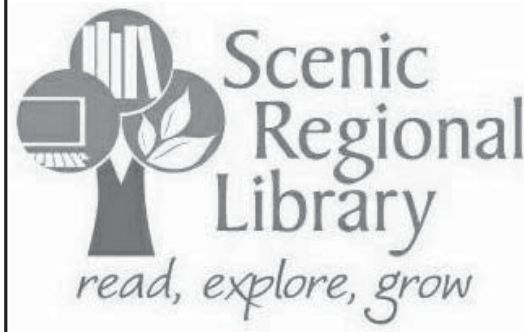
BRACE DETAIL



6
S-500
3/4" = 1'-0"

BRACE DETAIL

NOTE:
SEE BRACING ELEVATION FOR ORIENTATION OF GUSSET PLATE.



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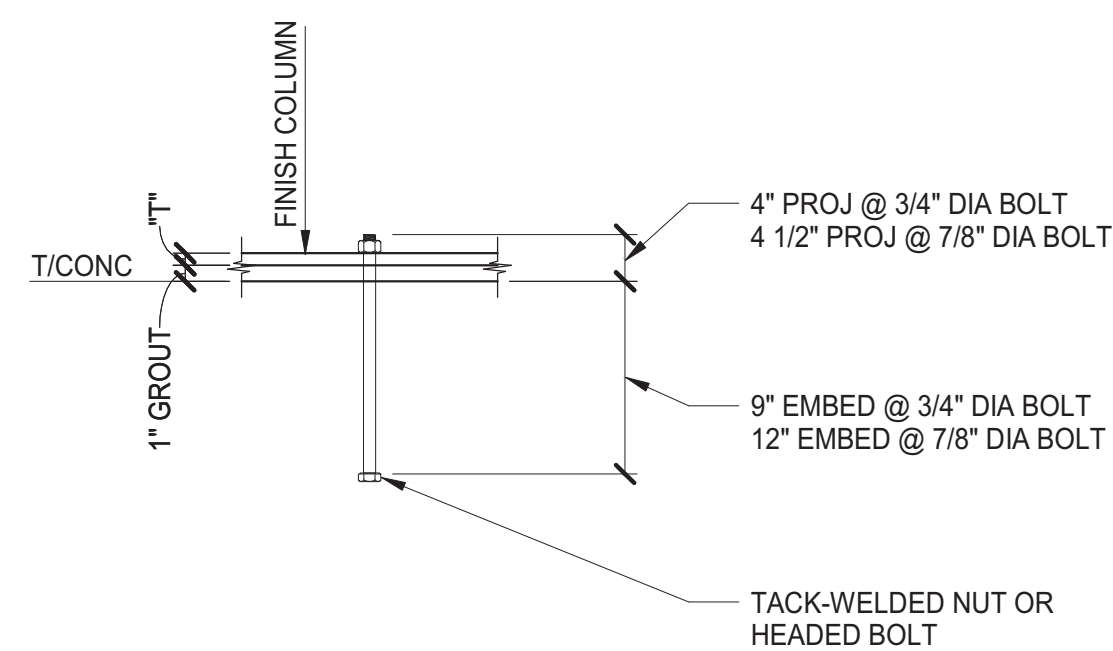
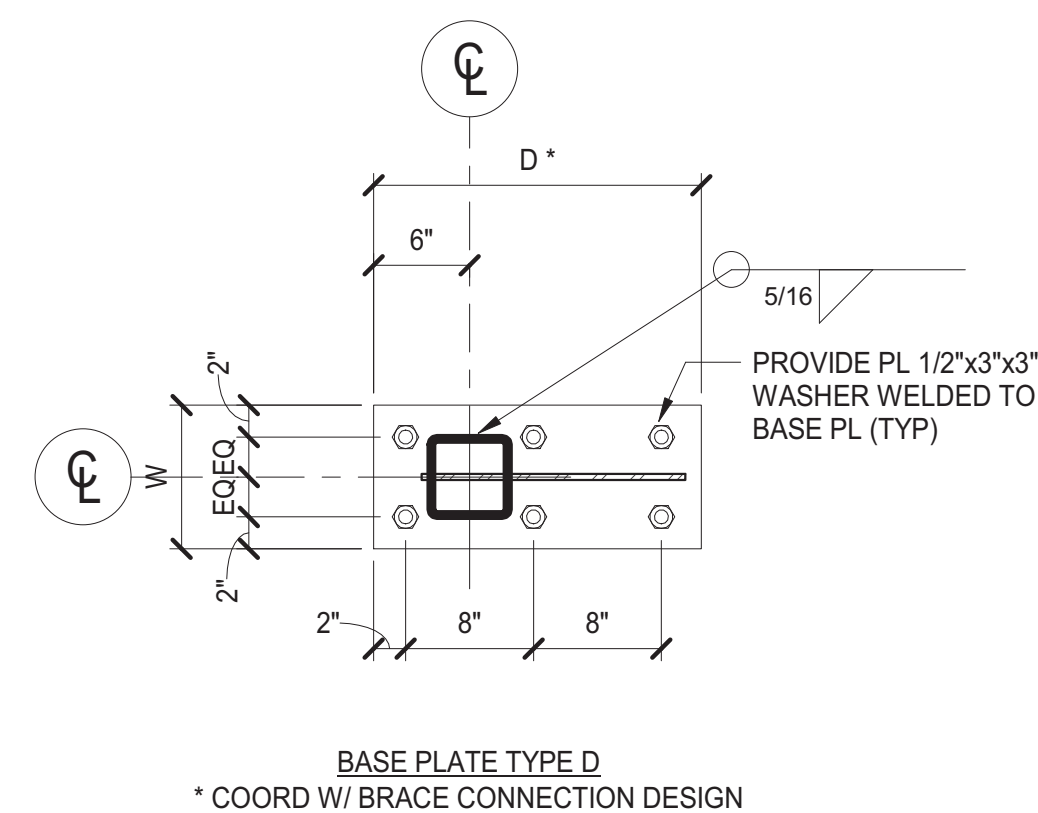
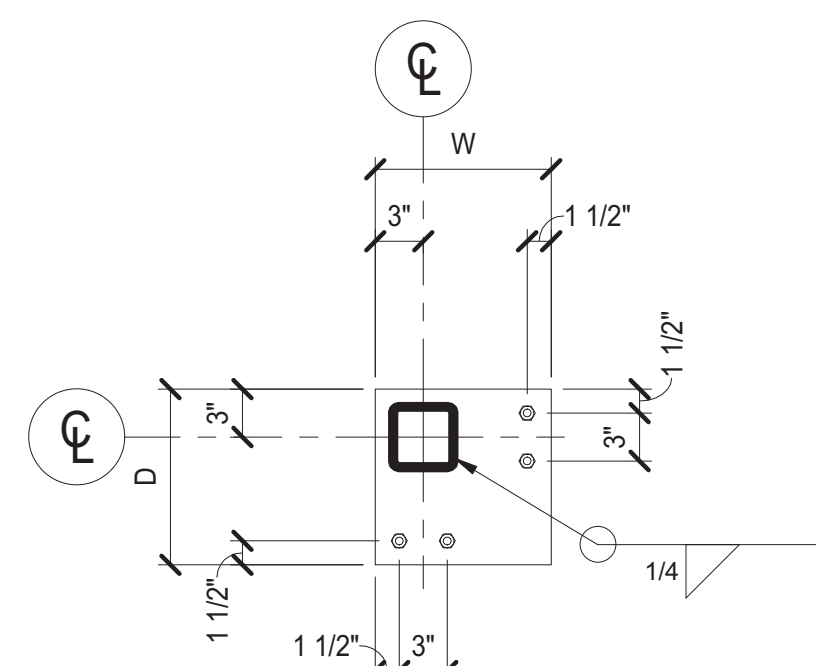
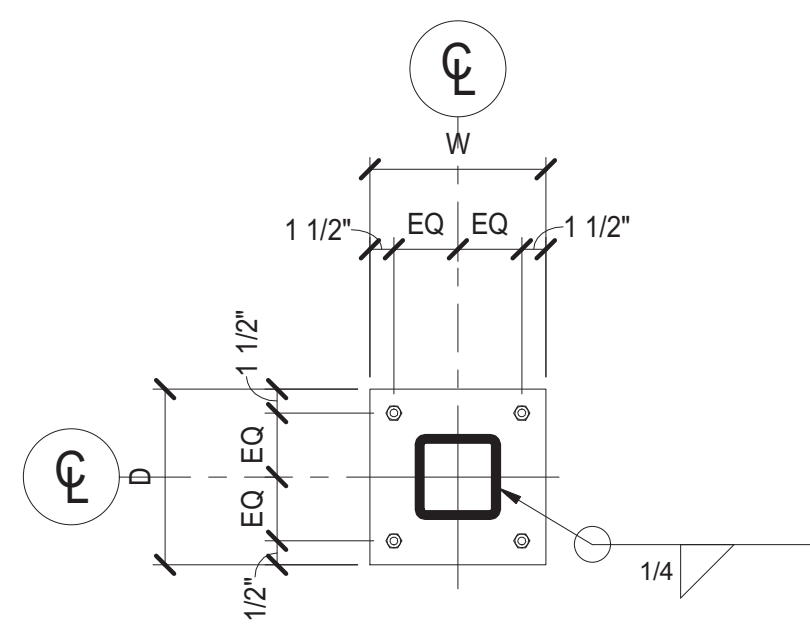
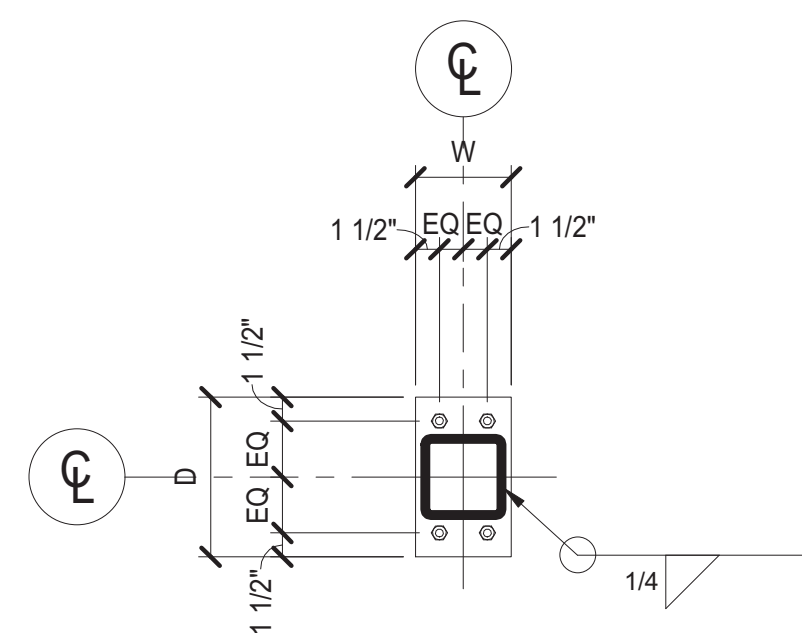
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SHEET TITLE:
BRACE FRAME ELEVATIONS

S-500

STEEL COLUMN SCHEDULE												
ROOF BMD												ROOF BMD
116'-4"												116'-4"
LOW ROOF BMD												LOW ROOF BMD
112'-8"												112'-8"
	HSS4x4x5/16	HSS4x4x5/16	HSS5x5x1/4	HSS6x6x1/2	HSS6x6x5/8	HSS5x5x5/16	HSS6x6x1/2	HSS5x5x5/16	HSS5x5x5/16	HSS5x5x1/4	HSS4x4x5/16	
FIRST FLOOR												FIRST FLOOR
100'-0"												100'-0"
BASE PLATE TYPE PLATE DIM I" x W" x D" ANCHOR BOLTS	C 3/4"x6"x8" (4) 3/4"Ø	C 3/4"x6"x8" (4) 3/4"Ø	A 3/4"x6"x11" (4) 3/4"Ø	D 3/4"x6"x20" (6) 7/8"Ø	B 3/4"x6"x12" (4) 7/8"Ø	B 3/4"x11"x11" (4) 7/8"Ø	A 3/4"x11"x12" (4) 3/4"Ø	D 3/4"x8"x20" (6) 7/8"Ø	D 3/4"x8"x20" (6) 7/8"Ø	B 3/4"x6"x11" (4) 3/4"Ø	A 3/4"x6"x11" (4) 3/4"Ø	
Column Locations	A-9	B-7, F-3	C-8	D-6	E-5	E-9, H-2	G-4	J-1	J-9	K-4.1, K-4.8, K-5.8, K-8	K-9	



TYPICAL BASE PLATE DETAILS



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No.	Date	Description
	04/14/17	ISSUED FOR BID

DRAWN BY: **TRN**

PROJECT NUMBER: 16023

SHEET TITLE:
COLUMN SCHEDULE & DETAILS

S-600

GENERAL NOTES

- THESE PLANS ARE DIAGRAMMATIC IN NATURE SINCE THEY REFLECT ONLY THE AVAILABLE INFORMATION OBTAINED FROM EXISTING PLANS, SPECIFICATIONS, AND FIELD SURVEYS. THE EXACT LOCATION OF EXISTING DUCTWORK, PIPING, AND EQUIPMENT MAY DEVIATE FROM THE LOCATION INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL BE PREPARED TO MAKE SOME ALTERATIONS TO NEW AND/OR EXISTING SERVICES TO FIT ACTUAL JOB CONDITIONS.
- THE SPACE ALLOWED FOR MECHANICAL (HVAC, PLUMBING, FIRE PROTECTION) AND ELECTRICAL WORK ABOVE THE SUSPENDED CEILING IS CRITICAL AND REQUIRES COORDINATION BETWEEN TRADES. CONTRACTORS SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS PRIOR TO FABRICATION OR INSTALLATION OF ANY MATERIALS. DUCTWORK SHALL BE HUNG AS CLOSE AS POSSIBLE TO THE STRUCTURE ABOVE UNLESS INDICATED OTHERWISE. REWORK OF PIPING, DUCTWORK, EQUIPMENT LOCATION, CONDUIT, ETC. AS A RESULT OF POOR PLANNING, COORDINATION, OR SCHEDULING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ANY HOLES LEFT IN EXISTING WALL CONSTRUCTION DUE TO DEMOLITION OR NEW WORK SHALL BE PATCHED TO MATCH EXISTING CONDITIONS.
- PIPES/DUCTS/ETC. PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE SEALED WEATHER PROOF.
- CONTRACTOR TO FIRESTOP ALL PENETRATIONS THROUGH FIRE-RATED FLOORS AND WALLS CREATED BY DEMOLITION OR NEW WORK WITH "SPECSEAL SSS" OR EQUAL.
- PROVIDE OPENING IN DRY WALL ABOVE CEILING TO ALLOW SUPPLY AIR TO RETURN TO HEAT PUMPS OR AIR HANDLERS.
- REFRIGERANT PIPING TO BE SIZED BY EQUIPMENT MANUFACTURER AND INSTALLED PER THE MANUFACTURER'S INSTALLER'S GUIDE. CONTRACTOR TO SUBMIT DRAWINGS SHOWING ROUTING. SEE SPECIFICATIONS.
- THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE MOUNTED AT 48" A.F.F. TO THE TOP OF THERMOSTAT UNLESS NOTED OTHERWISE. DO NOT MOUNT IN DIRECT SUNLIGHT OR NEAR HEAT PRODUCING EQUIPMENT.
- INSTALL H.V.A.C. SYSTEM IN ACCORDANCE WITH ALL STATE AND LOCAL CODES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ANY FRAMING REVISIONS, EQUIPMENT LOCATIONS, ADDITION OF CONTROLS, ELECTRICAL CIRCUITING REVISIONS, ETC. THAT RESULT FROM USING EQUIPMENT OTHER THAN INDICATED ON THE DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER WILL NOT WAIVE THE CONTRACTOR OF THIS RESPONSIBILITY.
- THE CONTRACTOR SHALL HAVE THE FINAL RESPONSIBILITY FOR SYSTEM START UP AND TURN OVER TO THE OWNER.
- ALL ITEMS INCLUDED ON THESE DRAWINGS AND THE SPECIFICATIONS SHALL BE INCLUDED IN THE CONTRACTOR'S BID. IF THE CONTRACTOR DOES NOT CLEARLY UNDERSTAND THESE PLANS OR IS NOT SURE OF THEIR MEANING, THE CONTRACTOR SHOULD OBTAIN THE ENGINEER'S WRITTEN EXPLANATION AND INTERPRETATION PRIOR TO BID TIME. THE CONTRACTOR WILL BE HELD TO THE INTERPRETATION OF THE ENGINEER.
- FIRE CAULK ALL PENETRATIONS THRU FIRE RATED PARTITIONS TO MAINTAIN FIRE RATING OF PARTITION.
- CAULK ALL PENETRATIONS THRU WALLS TO MINIMIZE SOUND PENETRATION THRU WALLS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL TEMPERATURE CONTROL SYSTEM REQUIREMENTS.
- ROUTE LINE SIZE PVC CONDENSATE DRAIN PIPING FROM AIR HANDLING UNIT TO NEAREST FLOOR DRAIN. PROVIDE TRAP AT CONNECTION TO AIR HANDLING UNIT.
- ANY DAMAGE TO THE SITE (SIDEWALKS, CURBS, ETC) OR TO THE BUILDING AS A RESULT OF WORK PERFORMED UNDER THIS CONTRACT SHALL BE FIXED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR WILL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF ROOFS/WALLS/FLOORS AND CORE DRILLS REQUIRED TO COMPLETE THEIR RESPECTIVE WORK.
- THE OWNER SHALL HAVE FIRST SALVAGE RIGHTS OF EQUIPMENT AND MATERIALS REMOVED. ALL EQUIPMENT AND MATERIALS NOT CLAIMED BY THE OWNER SHALL BE REMOVED FROM THE PREMISES BY THE CONTRACTORS.
- REMOVE AND DISPOSE OF REFRIGERANT IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY TEMPORARY FENCING AROUND THE LIFT SITE DURING LIFTS.
- ALL EXISTING MECHANICAL EQUIPMENT, DUCTWORK, ETC. THAT SERVES SPACES ON OTHER FLOORS SHALL REMAIN AS IS. DO NOT DISCONNECT OR REMOVE ANY EQUIPMENT NOT SHOWN IN THESE PLANS.
- REMOVE AND RE-INSTALL EXISTING LAY-IN CEILING AS REQUIRED TO COMPLETE ALL DEMOLITION AND NEW WORK. REPLACE CEILING TILES DAMAGED DURING CONSTRUCTION WITH NEW TILES MATCHING EXISTING.

GENERAL NOTES (AIR SIDE)

- NOTE. ALL DUCTWORK OFFSETS ARE NOT SHOWN. THE CONTRACTOR SHALL MODIFY DUCTS AND OFFSETS TO COORDINATE WITH THE BUILDING STRUCTURE AND ALL TRADE REQUIREMENTS.
- ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED PER THE LATEST VERSION OF THE S.M.A.C.N.A. H.V.A.C. DUCT CONSTRUCTION STANDARDS, UNLESS SPECIFIED MORE STRINGENTLY IN THESE CONSTRUCTION DOCUMENTS. MINIMUM DUCT GAUGE SHALL BE 24.
- 90° DUCT ELBOWS SHALL BE EQUIPPED WITH SINGLE THICKNESS TURNING VANES MOUNTED TO A PREFABRICATED VANE RAIL.
- ALL ELBOWS SHALL BE SUPPLIED WITH TURNING VANES, WHETHER SHOWN ON DOCUMENTS OR NOT.
- ALL 90° AND 45° RECTANGULAR RADIUS ELBOWS TO BE FABRICATED WITH AN INSIDE RADIUS NO LESS THAN 1/2 OF THE WIDTH OF THE DUCT - WHERE THE WIDTH OF THE DUCT IS DEFINED AS THE DIMENSION OF THE DUCT IN THE PLANE IN WHICH THE DUCT IS TURNING.
- RECTANGULAR DUCTWORK SHALL BE SUPPORTED PER THE S.M.A.C.N.A. STANDARDS AND AT EACH CHANGE IN DIRECTION.
- PROVIDE MANUAL, SINGLE BLADE, BALANCING DAMPERS WITH LOCKING QUADRANT AND INTEGRAL POSITION INDICATOR ON ALL RUNOUTS TO SUPPLY AND EXHAUST AIR DEVICES - EXCEPT THOSE LOCATED IN AREAS WITH PLASTER CEILINGS AND ARE NOT ACCESSIBLE (DAMPER SHALL BE INTEGRAL WITH THE AIR DEVICE IN THESE CASES.)
- PROVIDE MANUAL OPPOSED BLADE DAMPERS WITH LOCKING QUADRANT AND INTEGRAL POSITION INDICATOR ON ALL RECTANGULAR BRANCH DUCTS AND AIR DEVICE RUNOUTS THAT EXCEED 12" IN HEIGHT.
- MANUAL SPLITTER DAMPERS ARE NOT ACCEPTABLE.
- NOT ALL OF THE ACCESS DOORS IN THE DUCT SYSTEMS OR PLENUMS ARE SHOWN. PROVIDE ACCESS DOORS IN ALL DUCT SYSTEMS OR PLENUMS WHERE REQUIRED TO ACCESS AND MAINTAIN MOTORIZED OR AUTOMATIC DAMPER BLADES AND LINKAGES.
- ALL DUCTWORK SHALL BE SUPPORTED FROM ROOF OR FLOOR STRUCTURE ABOVE. DUCTWORK SHALL NOT LAY ON TOP OF CEILING OR LIGHT FIXTURES.
- FLEXIBLE DUCT RUNOUTS TO AIR DEVICES SHALL NOT EXCEED 5'-0" IN LENGTH. FLEXIBLE RUNOUTS SHALL BE TRIMMED TO THE MINIMUM LENGTH NECESSARY TO MAKE THE CONNECTION.
- WHERE DAMPER ACTUATORS ARE MOUNTED TO DUCTWORK OR PLENUMS PROVIDE A HEAVY GAGE BASE PLATE, ANGLE STIFFENERS, OR MOUNTING AS REQUIRED TO ELIMINATE DEFLECTION OF DUCTWORK DURING ACTUATOR OPERATION.
- FLEXIBLE DUCT CONNECTIONS TO EQUIPMENT ARE NOT SHOWN ON THE DRAWINGS. PROVIDE EXTRA WIDE FLEXIBLE CONNECTIONS ON THE SUPPLY DUCT AND THE RETURN DUCT OF EACH MAKE-UP AIR UNIT, ROOFTOP UNIT, AND EACH AIR HANDLING UNIT. PROVIDE STANDARD FLEXIBLE CONNECTIONS ON ALL BLOWER COILS, EXHAUST FANS, SUPPLY FANS, AND DUST COLLECTOR.
- PROVIDE 45° FLARED TAKEOFFS FOR ALL RECTANGULAR BRANCH CONNECTIONS TO THE MAIN DUCT.
- ALL DAMPER ACTUATORS FOR DUCT SYSTEMS OR EQUIPMENT THAT COMMUNICATES DIRECTLY WITH THE OUTDOORS SHALL BE SPRING RETURN TYPE TO CLOSE IN THE EVENT OF A POWER FAILURE.
- PROVIDE 1-1/2 HOUR RATED FIRE DAMPERS IN THE DUCTWORK WHERE INDICATED ON THE PLANS AND REQUIRED BY CODE. FIRE DAMPERS SHALL BE PROVIDED WITH AN ACCESS PANEL LARGE ENOUGH TO PERMIT INSPECTION AND MAINTENANCE OF THE DAMPER. ACCESS PANELS TO FIRE DAMPERS SHALL BE PERMANENTLY IDENTIFIED ON THE EXTERIOR BY A NAMEPLATE WITH THE WORDS "FIRE DAMPER". THE LETTERS ON THE FIRE DAMPER LABELS SHALL NOT BE LESS THAN 1/2 INCH IN HEIGHT.
- THE SPACE ABOVE THE SUSPENDED CEILINGS SHALL BE USED AS A RETURN AIR PLENUM. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE THE WORK OF OTHER TRADES TO PROVIDE ADEQUATE SPACE FOR THE FLOW OF RETURN AIR (250 FPM MAXIMUM VELOCITY). WHERE PARTITIONS EXTEND TO THE CONSTRUCTION ABOVE, OPENINGS SHALL BE PROVIDED IN THE PARTITION ABOVE THE CEILING.
- DUCT DIMENSIONS NOTED ON THE DRAWINGS ARE NET FREE AREA. WHERE ACOUSTIC LINER IS INDICATED OR SPECIFIED THE SHEET METAL SIZE MUST BE INCREASED TO ACCOMMODATE THE LINER.
- AREAS ABOVE THE CEILING SERVE AS A RETURN AIR PLENUM. ALL MATERIALS EXPOSED IN THE PLENUM SHALL HAVE A 25/50 SMOKE/FLAME SPREAD RATING.
- ALL DUCT RUNOUTS TO AIR DEVICES ARE TO BE THE SAME SIZE AS THE NECK OF THE AIR DEVICE UNLESS NOTED OTHERWISE.
- DIRECTIONAL ARROWS ON AIR DEVICES INDICATE THROWS FOR AIR DEVICE. VERIFY PROPER ADJUSTMENT OF THROW DEFLECTION VANES OF ALL AIR DEVICES PRIOR TO BEGINNING BALANCING. WHERE NO ARROW SHOWS, THROW SHALL BE 4-WAY.
- CONTRACTOR SHALL BALANCE EACH AREA OF COMPLETED WORK. THE CONTRACTOR SHALL BALANCE SUPPLY, RETURN, AND EXHAUST AIR FLOWS AT EACH AIR DEVICE AFFECTED BY RENOVATION TO QUANTITY INDICATED ON THE DRAWINGS.
- ALL NEW DUCT CONNECTIONS TO EXISTING DUCTWORK SHALL BE SEALED AIRTIGHT.
- ALL BATHROOM EXHAUST DUCTWORK SHALL BE EXTERNALLY INSULATED.
- EXPOSED GALVANIZED DUCTWORK SHALL BE PAINTABLE. GENERAL CONTRACTOR TO PAINT ALL EXPOSED DUCTWORK. FINAL COLOR TO BE APPROVED BY THE ARCHITECT.

HEATING AND VENTILATION SYMBOLS			
	SA	SOUND ATTENUATOR	
	FC	FLEXIBLE CONNECTION	
	DTS	DUAL TEMPERATURE SUPPLY	
	DTR	DUAL TEMPERATURE RETURN	
	FOR	FUEL OIL RETURN	
	FOV	FUEL OIL VENT	
	D	DRAIN LINE (OTHER THAN PLUMBING)	
	RD	REFRIGERANT DISCHARGE	
	RS	REFRIGERANT LIQUID	
	G	GAS	
	CWS	CHILLED WATER SUPPLY	
	CA	COMPRESSED AIR	
	LPS	LOW PRESSURE STEAM	
	MPC	MEDIUM PRESSURE STEAM	
	HPS	HIGH PRESSURE STEAM	
	HPC	HIGH PRESSURE CONDENSATE	
	HWS	CONDENSATE PUMP DISCHARGE	
	HWR	HEATING WATER SUPPLY	
	HWR	HEATING WATER RETURN	
	T	THERMOSTAT / TEMPERATURE SENSOR	
	S	TEMPERATURE SENSOR	
	CO	CARBON MONOXIDE SENSOR	
	H	HUMIDISTAT	
	FXD	FLEXIBLE DUCT	
		CEILING AIR DEVICE	
		AIR DEVICE THROW DESIGNATION: (HATCHING DESIGNATES ZERO THROW)	
		SIDEWALL AIR DEVICE	
		DAMPED SHOE DUCT TAP FROM RECT. MAIN	
		SHOE DUCT TAP FROM RECT. MAIN	
		45° DAMPERED DUCT TAP	
		45° DUCT TAP	
		SADDLE TAP	
		STRAIGHT RECT. DUCT TAP FROM RECT. MAIN	
		STRAIGHT RECT. DUCT TAP FROM ROUND MAIN	
	S-1	(AIR DEVICE TYPE) - (SCHEDULE NUMBER)	
	1000	(AIR FLOW IN CFM)	
		DUCT SIZE DESIGNATION: 1ST FIGURE SIDE SHOWN, (SIZE SHOWN IS FREE AREA SIZE, ALLOWANCE HAS NOT BEEN MADE FOR INTERIOR INSULATION WHERE SPECIFIED.)	
	24" x 12" RA		
	24" x 12"	FLAT OVAL DUCT	
NOTE: NOT ALL SYMBOLS OR ABBREVIATIONS MAY BE USED.			

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PIPING SPECIALTIES

	GV	GATE VALVE		CV	CHECK VALVE
	GLV	GLOBE VALVE		BLV	BALL VALVE
	STR	STRAINER		U	UNION
	BC	BALANCING COCK		SOC	SHUT-OFF COCK
	SLV	SOLENOID VALVE		BFV	BUTTERFLY VALVE
	FS	FLOW SWITCH		FCV	FLOW CONTROL VALVE (GPM INDICATED)
	T&PR	TEMPERATURE AND PRESSURE RELIEF VALVE		PG	PRESSURE GAUGE
	TH	THERMOMETER (TUBE OR DIAL AS INDICATED)		PRV	PRESSURE REDUCING VALVE
		DIRECTION OF FLOW			PIPE GUIDES
	MV	MOTORIZED VALVE		DV	DIAPHRAGM VALVE
	LPV	LUBRICATED VALVE		HEV	HOSE END VALVE
	SWV	STOP AND WASTE VALVE		TWV	3-WAY VALVE (MIXING OR BY-PASS AS INDICATED)
		PETES PLUG		RV	RELIEF VALVE
	FC	FLEXIBLE PIPE CONNECTION		AVM	AIR VENT (MANUAL)
	AVA	AIR VENT (AUTOMATIC)		EX	EXPANSION JOINT
	CCR	CONCENTRIC REDUCER			TEE (SIDE OUTLET UP)
		TEE (SIDE OUTLET DOWN)			ELBOW (TURNED UP)
		ELBOW (TURNED DOWN)		BMD	COMBINATION BALANCING & MEASURING DEVICE
	ECR	ECCENTRIC REDUCER		FMD	FLOW MEASURING DEVICE
		STEAM TRAP			BALANCING VALVE
		FLEXIBLE CONNECTION			ELBOW
		TEE			

ABBREVIATIONS

FFE	FINISH FLOOR ELEVATION
AFF	ABOVE FINISH FLOOR
TE	TOP ELEVATION
BE	BOTTOM ELEVATION
FL	FLOW LINE
INV	INVERT ELEVATION
CL	CENTER LINE
GC	GENERAL CONSTRUCTION CONTRACTOR
HAC	HEATING & AIR CONDITIONING CONTRACTOR
PC	PLUMBING CONTRACTOR
EC	ELECTRICAL CONTRACTOR
ACS	AUTOMATIC CONTROL SUB-CONTRACTOR
FPC	FIRE PROTECTION CONTRACTOR
HSC	HALON SUB-CONTRACTOR
KEC	KITCHEN EQUIPMENT CONTRACTOR
MC	MECHANICAL CONTRACTOR
TCC	TEMPERATURE CONTROL CONTRACTOR

MISCELLANEOUS SYMBOLS

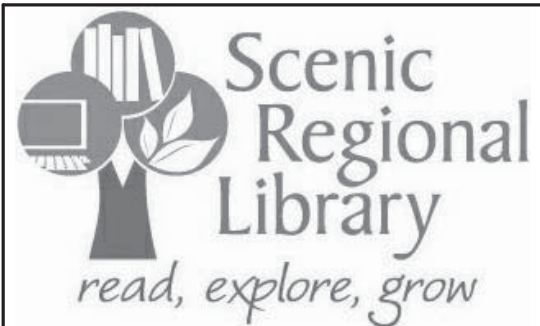
	EQUIPMENT OR PLUMBING FIXTURE DESIGNATION
	(RISER INDICATION P=PLUMBING KP =KITCHEN P =ACID)
	RISER DESIGNATION (RISER NUMBER)
	(DETAIL NUMBER) DETAIL DESIGNATION (SHEET NUMBER WHERE DETAIL IS FOUND)
	(SECTION NUMBER) SECTION DESIGNATION (SHEET NUMBER WHERE SECTION IS FOUND)
	KEYED NOTES
	REVISIONS
	AP ACCESS PANEL
	NEW CONNECTION
	AIR FLOW MEASURING STATION
	CONSTANT VOLUME REGULATOR

GENERAL NOTES (DEMOLITION)

- THESE PLANS ARE DIAGRAMMATIC IN NATURE. SINCE THEY REFLECT ONLY THE AVAILABLE INFORMATION OBTAINED FROM EXISTING PLANS, SPECIFICATIONS, AND FIELD SURVEYS. THE EXACT LOCATION OF EXISTING DUCTWORK, PIPING, AND EQUIPMENT MAY DEVIATE FROM THE LOCATION INDICATED ON THESE DRAWINGS. THE CONTRACTOR SHALL BE PREPARED TO MAKE SOME ALTERATIONS TO NEW AND/OR EXISTING SERVICES TO FIT ACTUAL JOB CONDITIONS.
- ITEMS SHOWN BOLD AND/OR DASHED ON THE DEMOLITION SHEETS INDICATE ITEMS TO BE REMOVED.
- CROSS HATCHING INDICATES ITEMS TO BE REMOVED.
- OWNER HAS FIRST RIGHT OF REFUSAL FOR ALL EQUIPMENT BEING REMOVED. CONTRACTOR TO DISPOSE OF EQUIPMENT BEING REMOVED BUT NOT RETAINED BY OWNER.

GENERAL NOTES (ROOF PROTECTION)

- THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE A MINIMUM OF SEVEN DAYS PRIOR TO THE BEGINNING OF WORK THAT INVOLVES ACTIVITY ON THE ROOF.
- TRAFFIC OVER THE EXISTING ROOF SURFACES SHALL BE KEPT TO AN ABSOLUTE MINIMUM.
- THE CONTRACTOR AND THE OWNER'S REPRESENTATIVE SHALL INSPECT THE EXPOSED ROOFING MEMBRANE SYSTEM PRIOR TO THE START OF CONSTRUCTION. ANY PREVIOUS DAMAGE OR DEFECTS OF THE ROOFING SYSTEM SHALL BE DOCUMENTED BY WRITING AND/OR PHOTOGRAPHS.
- THE CONTRACTOR SHALL PLACE MINIMUM OF 48" WIDE, 1/2" THICK APPROVED PROTECTION BOARDS (1 LAYER) MADE OF CONSTRUCTION GRADE PLYWOOD (ORIENTED STRAND BOARD WILL BE ACCEPTABLE) OVER ALL MEMBRANE ROOFING THAT WILL HAVE CONSTRUCTION TRAFFIC. THIS ROOF PROTECTION SHALL BE PROVIDED FOR THE ENTIRE AREA WITHIN THE LIMITS OF THE WORK (SEE DRAWINGS THIS SHEET). SUCH PROTECTION SHALL ALSO BE PROVIDED IN THE FORM OF A WALKWAY FROM THE ROOF ACCESS DOOR TO THE PROTECTED CONSTRUCTION AREA.
- STORAGE OF MATERIALS ON EXISTING ROOF WILL NOT BE ALLOWED.
- THE CONTRACTOR SHALL REMOVED DAILY ALL PROJECT DEBRIS FROM ALL ROOFING SURFACES.
- THE CONTRACTOR SHALL ADVISE THE OWNER'S REPRESENTATIVE WHEN WORK ON THE ROOF IS COMPLETE AND THE PROTECTION BOARDS HAVE BEEN REMOVED. THE CONTRACTOR AND THE OWNER'S REPRESENTATIVE SHALL EXAMINE ALL ROOF SURFACES WHERE WORK HAS OCCURRED AND WILL REPAIR ALL DEFECTS NOT PREVIOUSLY DOCUMENTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE BUILDING, ROOF, STRUCTURAL FRAMING, ETC. INCURRED DURING CONSTRUCTION.
- CONTRACTOR SHALL UTILIZED A LICENSED APPLICATOR OF THE EXISTING ROOFING SYSTEM TO REPAIR ANY AND ALL DAMAGE INCURRED DURING THE COURSE OF CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY WARRANTY OF THE EXISTING MEMBRANE ROOFING SYSTEM. THE CONTRACTOR SHALL UTILIZE A LICENSED APPLICATOR OF THE EXISTING ROOFING SYSTEM TO PERFORM ALL ROOFING WORK AND TO REPAIR ANY AND ALL DAMAGE. UPON COMPLETION, THE CONTRACTOR SHALL OBTAIN A LETTER FROM THE ROOF MANUFACTURER STATING THAT THE EXISTING WARRANTY REMAINS IN FULL FORCE AND EFFECT.



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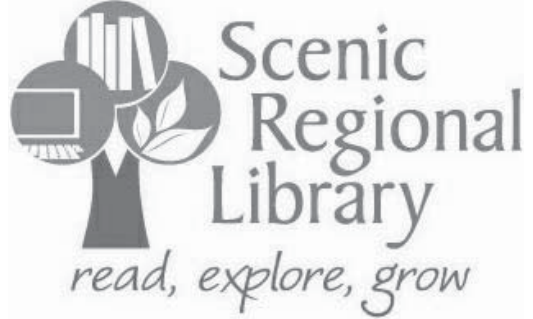
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PROJECT NUMBER: **16-1161.06**

SHEET TITLE:
**LEGEND, SYMBOLS, NOTES, &
ABBREVIATIONS - MECHANICAL**

M-001

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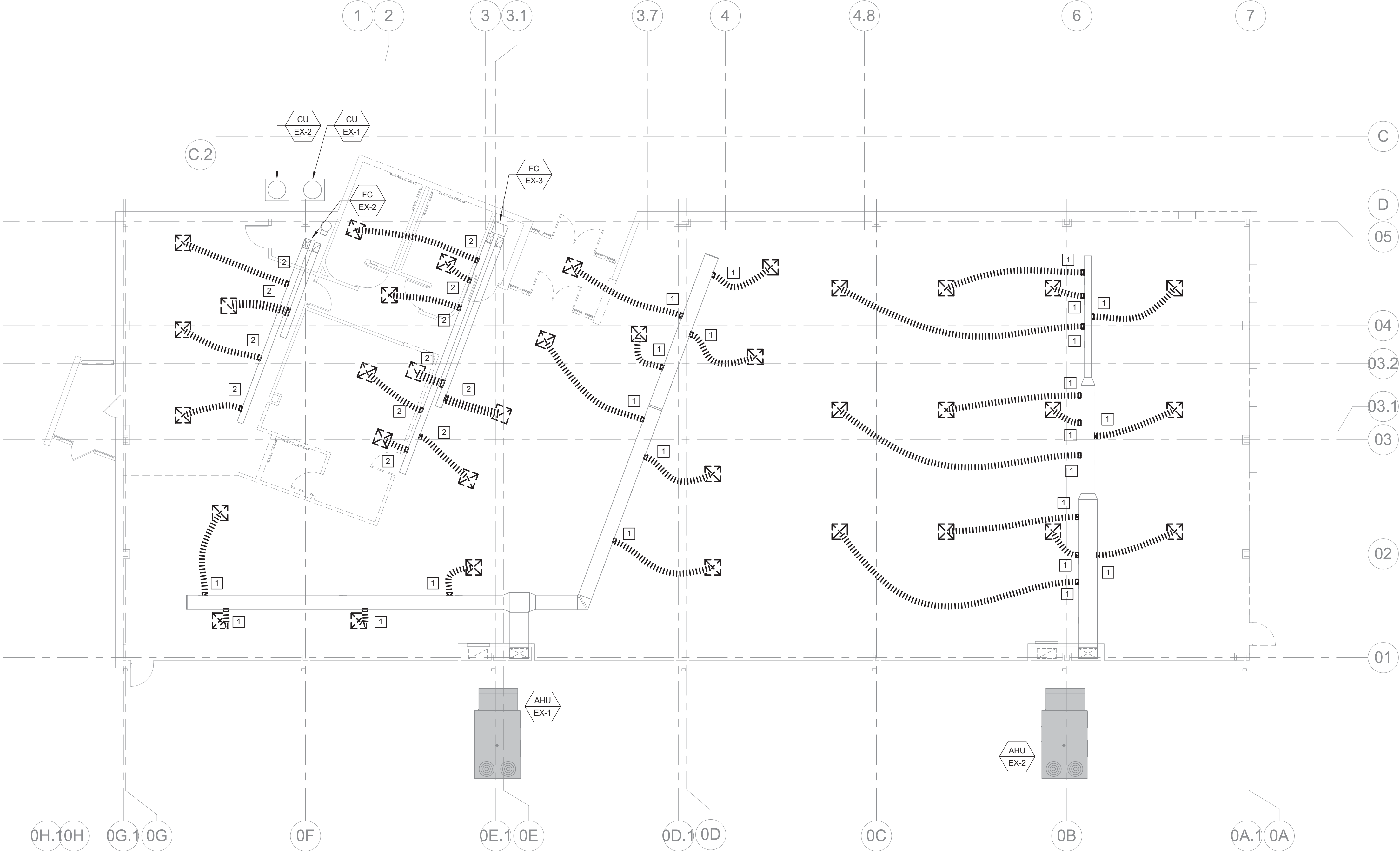
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No.	Date	Description
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DRAWN BY: **DEV**

PROJECT NUMBER: **16-1161.06**

SHEET TITLE:
**DEMO PLAN - FIRST FLOOR -
MECHANICAL**

MD-201

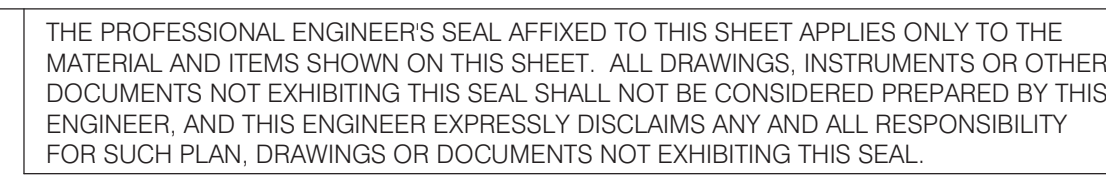


GENERAL NOTES

- 1 SEE SHEET M-001 FOR GENERAL NOTES THAT APPLY TO THIS SHEET.

KEYED NOTES

- #
- 1 DEMOLISH EXISTING FLEX DUCT, TAP AND SUPPLY DIFFUSER. SEE SHEET M-201 FOR NEW CONNECTION TO EXISTING PENETRATION.
- 2 DEMOLISH EXISTING FLEX DUCT, TAP AND SUPPLY DIFFUSER. PATCH DUCT WITH LIKE MATERIAL AND SEAL AIR TIGHT.



1 SEE SHEET M-001 FOR GENERAL NOTES THAT APPLY TO THIS SHEET.

- 1 ROUTE 4" Ø FLUE FROM FIREPLACE UP THROUGH ROOF. SEE DETAIL FOR FURTHER REQUIREMENTS.
- 2 CONNECT NEW SUPPLY DUCT TO EXISTING DUCT PENETRATION.
- 3 CONNECT TO EXISTING MAIN.
- 4 8"Ø EXHAUST DUCT UP THROUGH ROOF. TERMINATE WITH GOOSENECK. SEE DETAIL FOR ADDITIONAL REQUIREMENTS.
- 5 SUPPLY AND RETURN DUCT DOWN FROM RTU-1.
- 6 PROVIDE 45°, 6" LONG BELLMOUTH FITTING AT INLET OF RETURN AIR DUCT.
- 7 PROVIDE RETURN AIR BOOT. SEE DETAIL FOR ADDITIONAL REQUIREMENTS.

Number	Name
600	VESTIBULE
601	CORRIDOR
602	CAFE/VENDING
603	STORAGE
604	COATS
605	MEETING ROOM A
606	MEETING ROOM B
607	CHILDRENS AREA
608	TEEN AREA
609	CIRCULATION
610	ADULTS AREA
611	CIRCULATION
612	STUDY
613	STUDY
614	OFFICE
616	WORK ROOM
617	CORRIDOR
618	JANITOR'S CLOSET
619	ELECT.
620	CORRIDOR
621	WOMENS
622	MENS
623	MECH / ELEC
624	WORK AREA
625	STORAGE
626	BREAK ROOM
627	ELEC.
628	BOOK DROP
629	CORRIDOR

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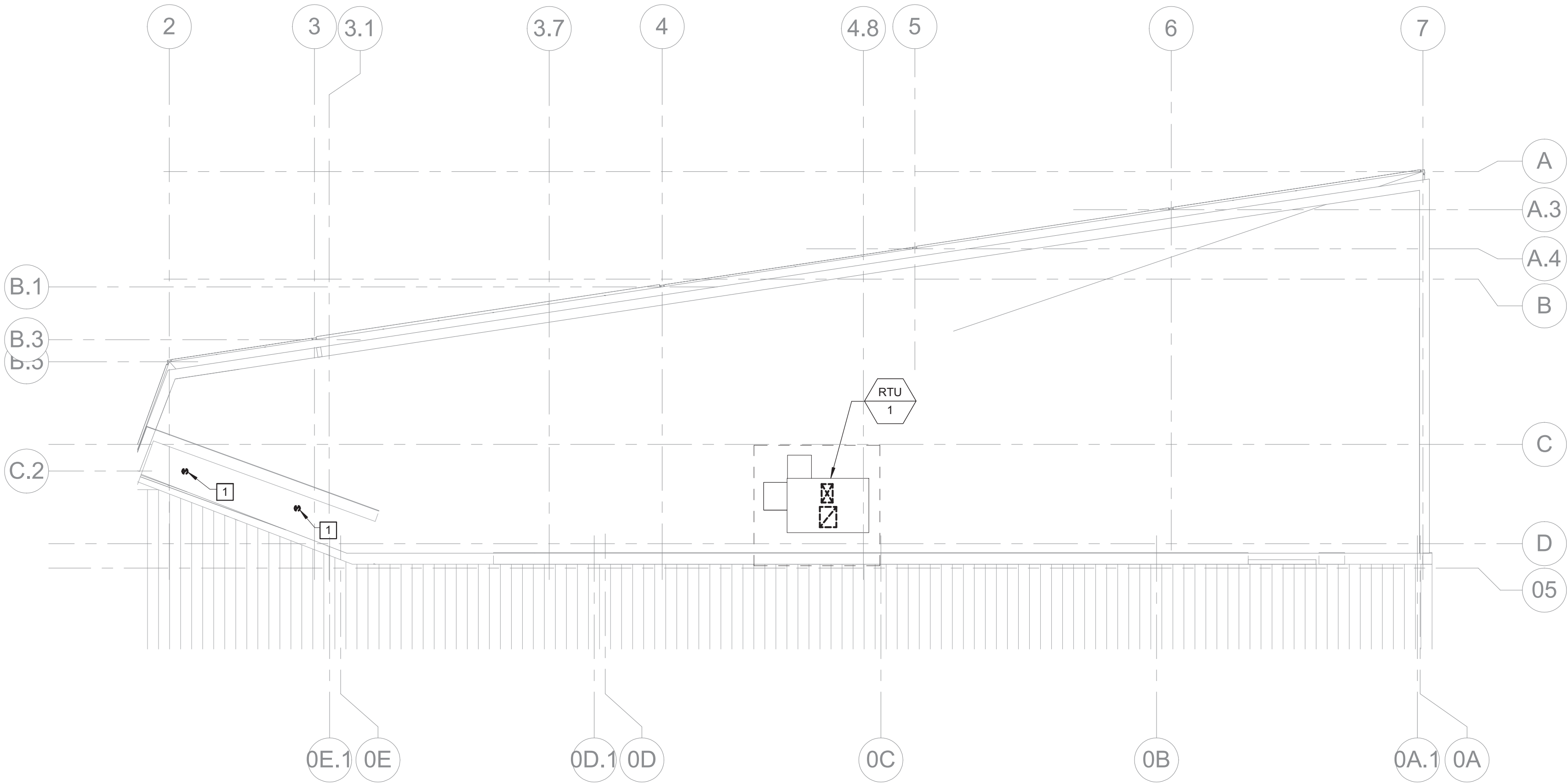
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PROJECT NUMBER: 16-1161.06

SHEET TITLE:
**FLOOR PLAN - FIRST FLOOR -
MECHANICAL**

M-201

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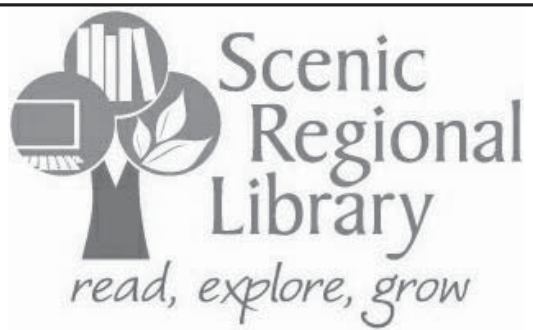
1 FLOOR PLAN - ROOF - MECHANICAL
M-202 1/8" = 1'-0"

GENERAL NOTES

1 SEE SHEET M-001 FOR GENERAL NOTES THAT APPLY TO THIS SHEET.

KEYED NOTES

1 8"Ø EXHAUST DUCT UP THROUGH ROOF FROM EXHAUST FAN. TERMINATE WITH GOOSENECK. SEE DETAIL FOR ADDITIONAL REQUIREMENTS.



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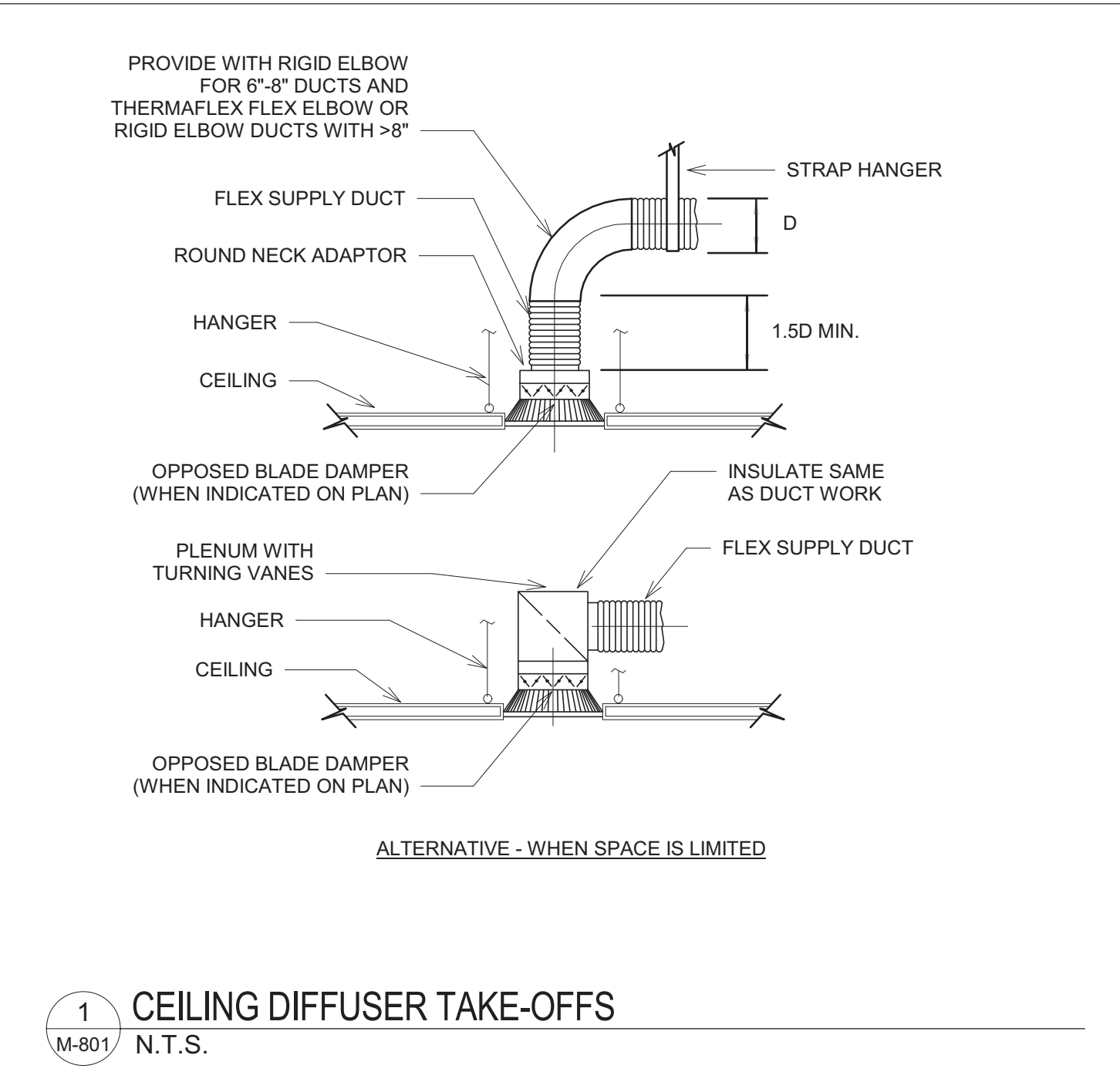
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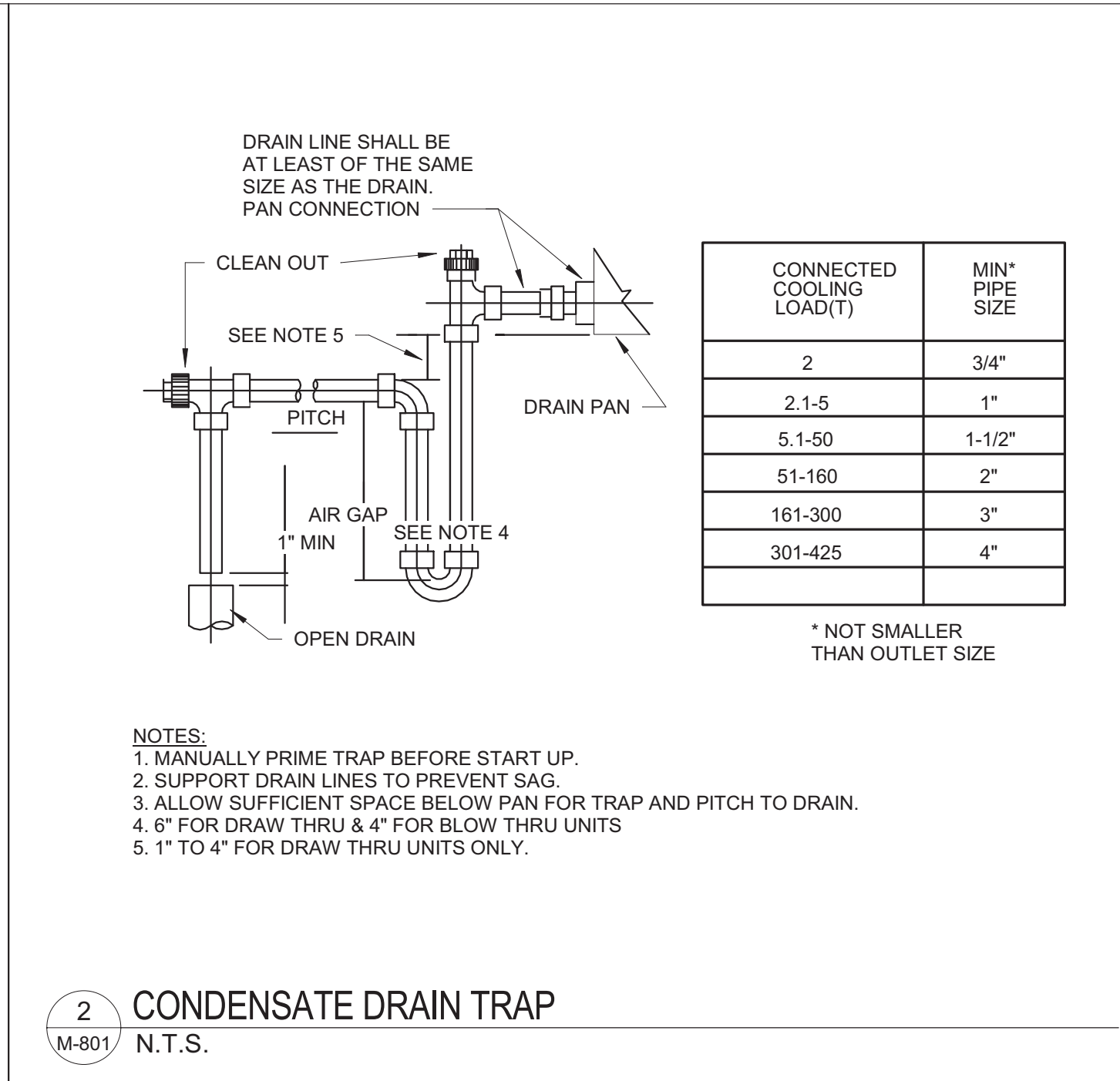
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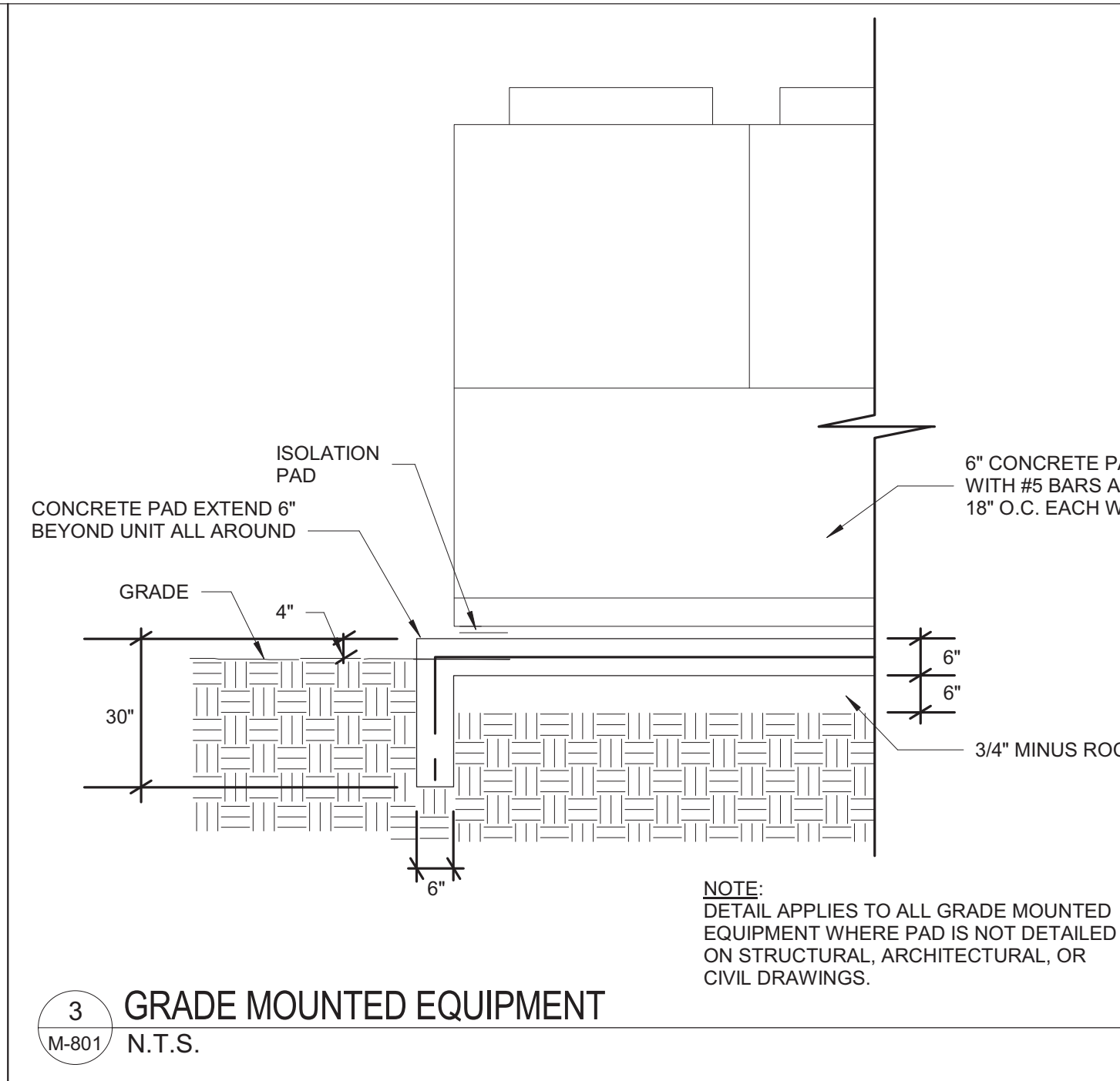
SHEET TITLE:
**FLOOR PLAN - ROOF -
MECHANICAL**
M-202



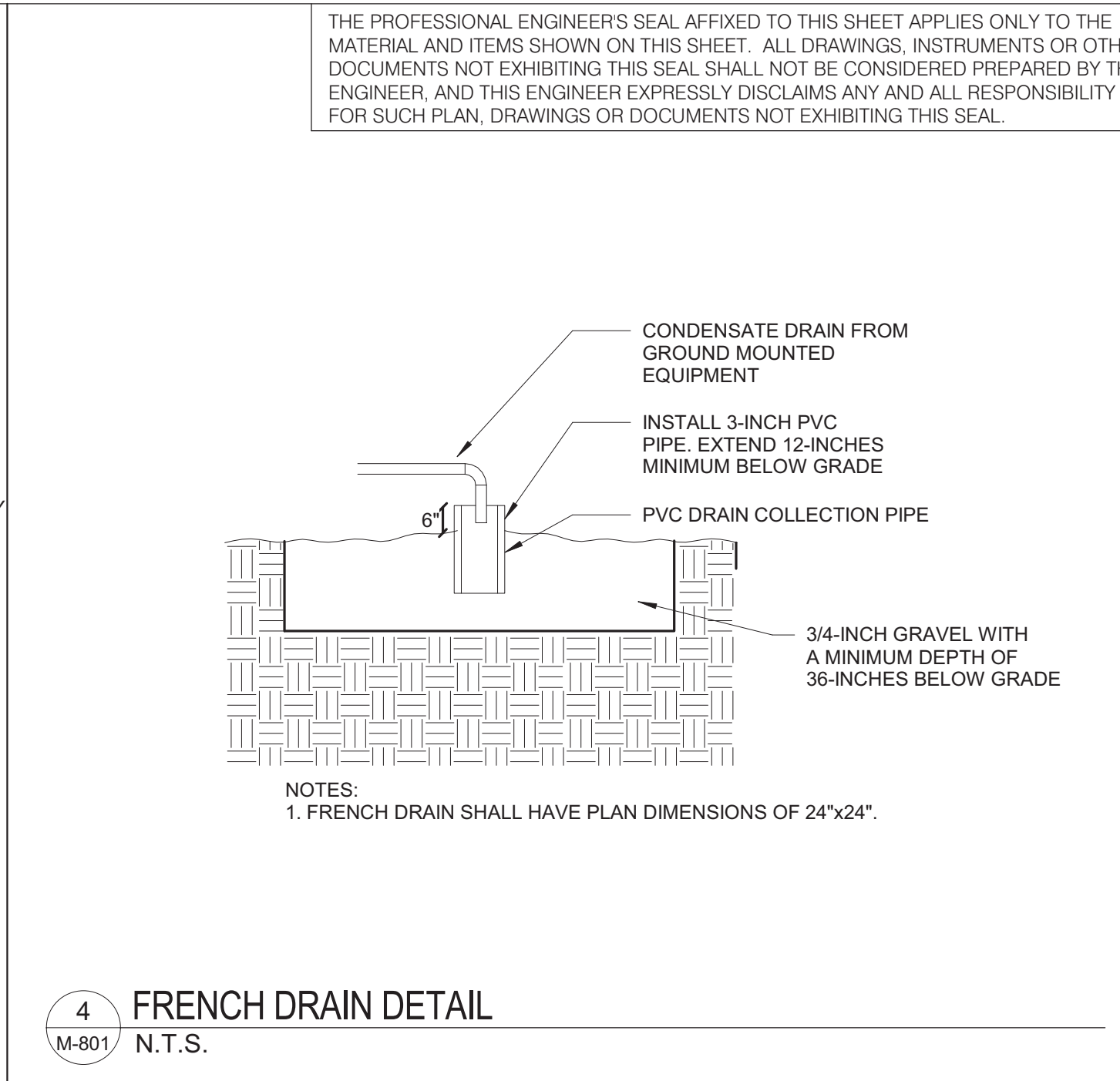
1 CEILING DIFFUSER TAKE-OFFS
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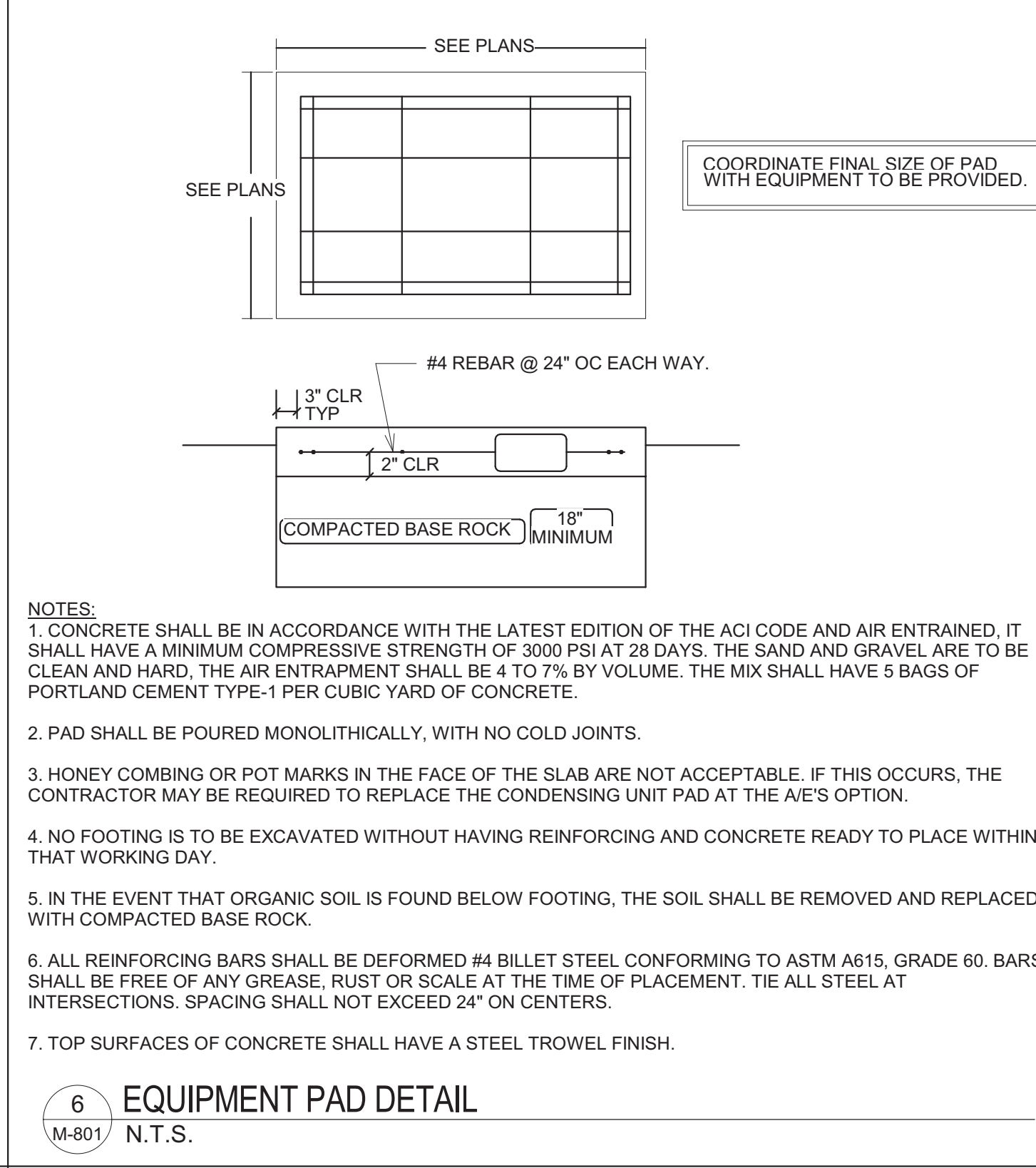
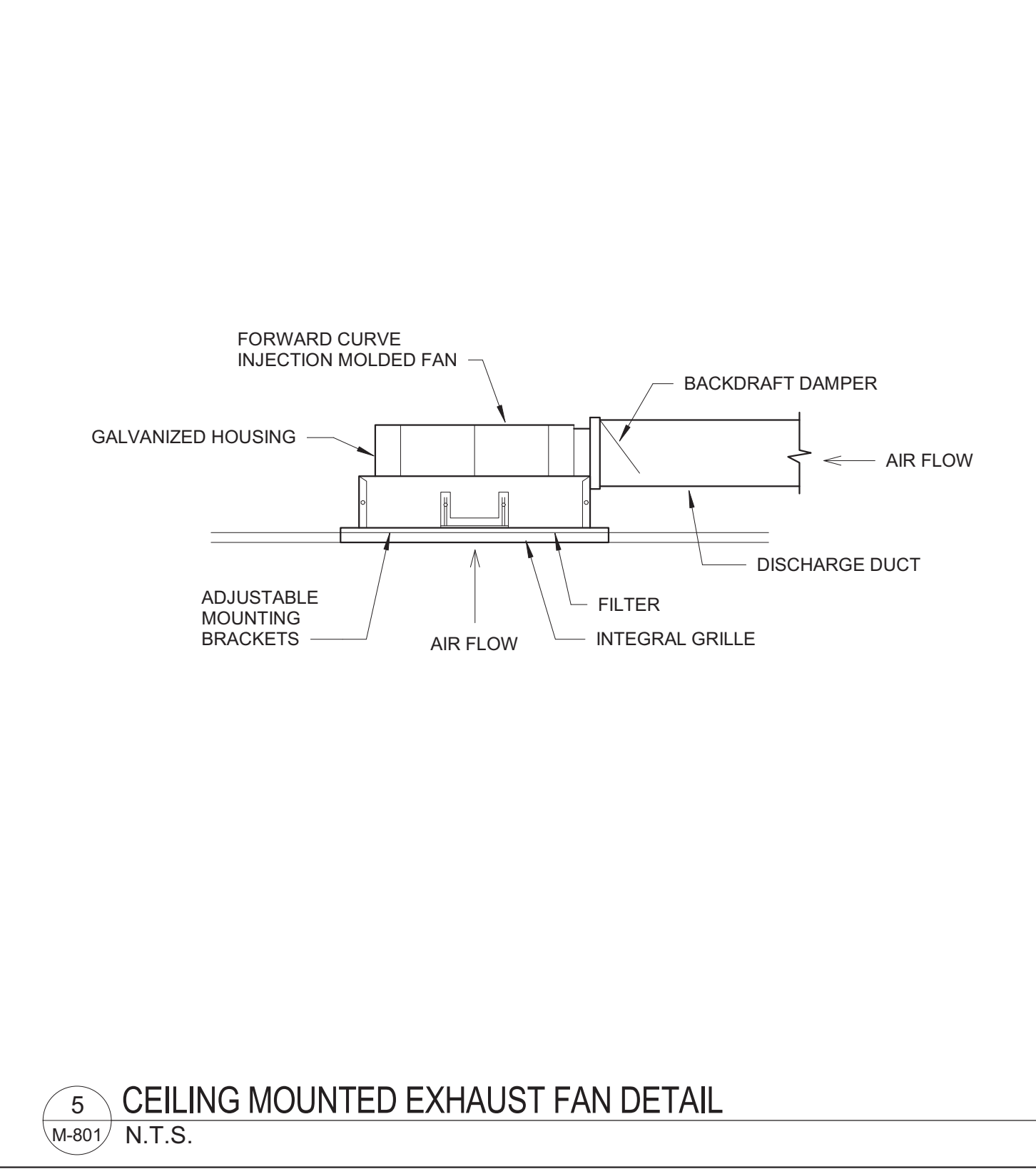
2 CONDENSATE DRAIN TRAP
N.T.S.



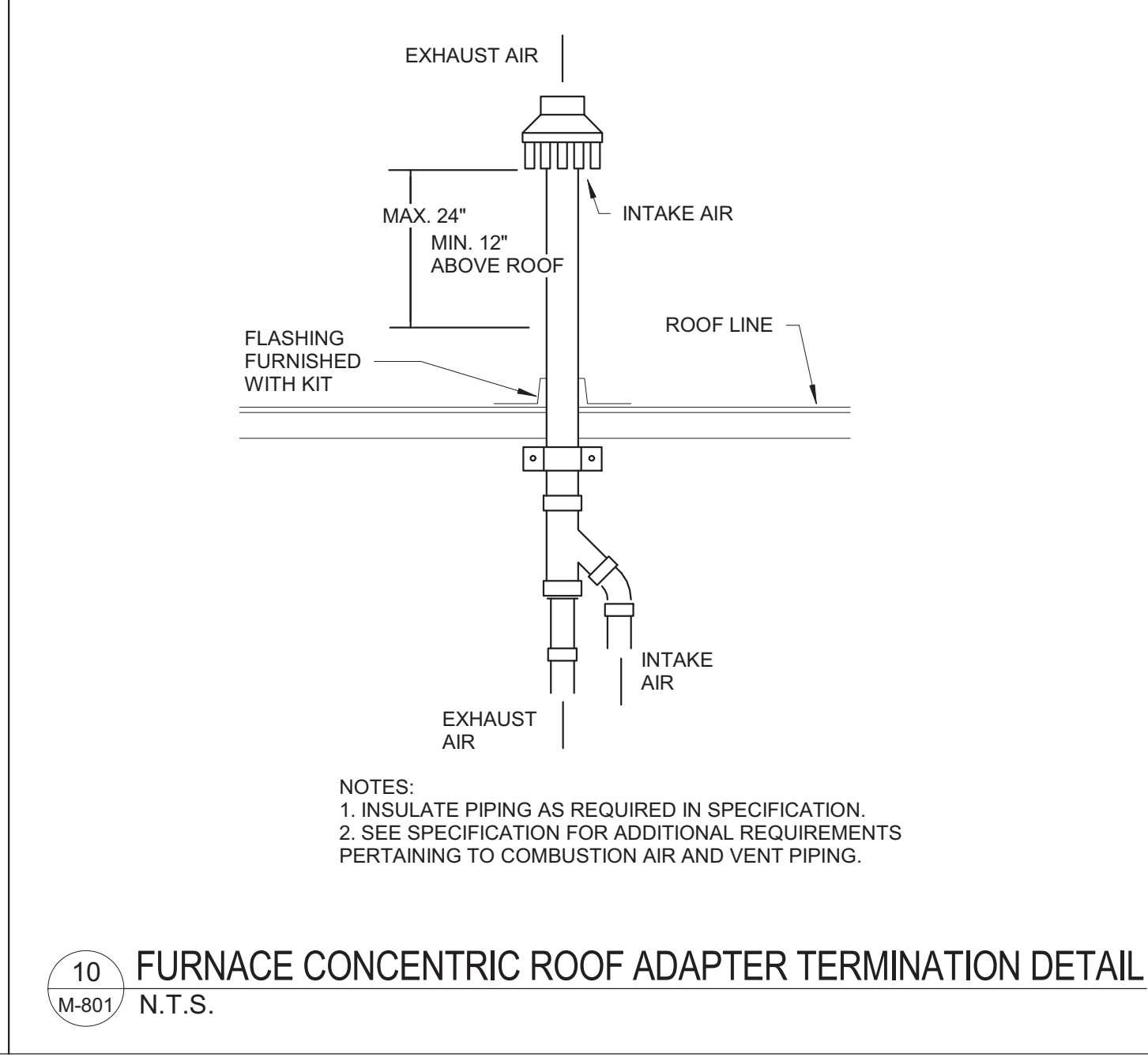
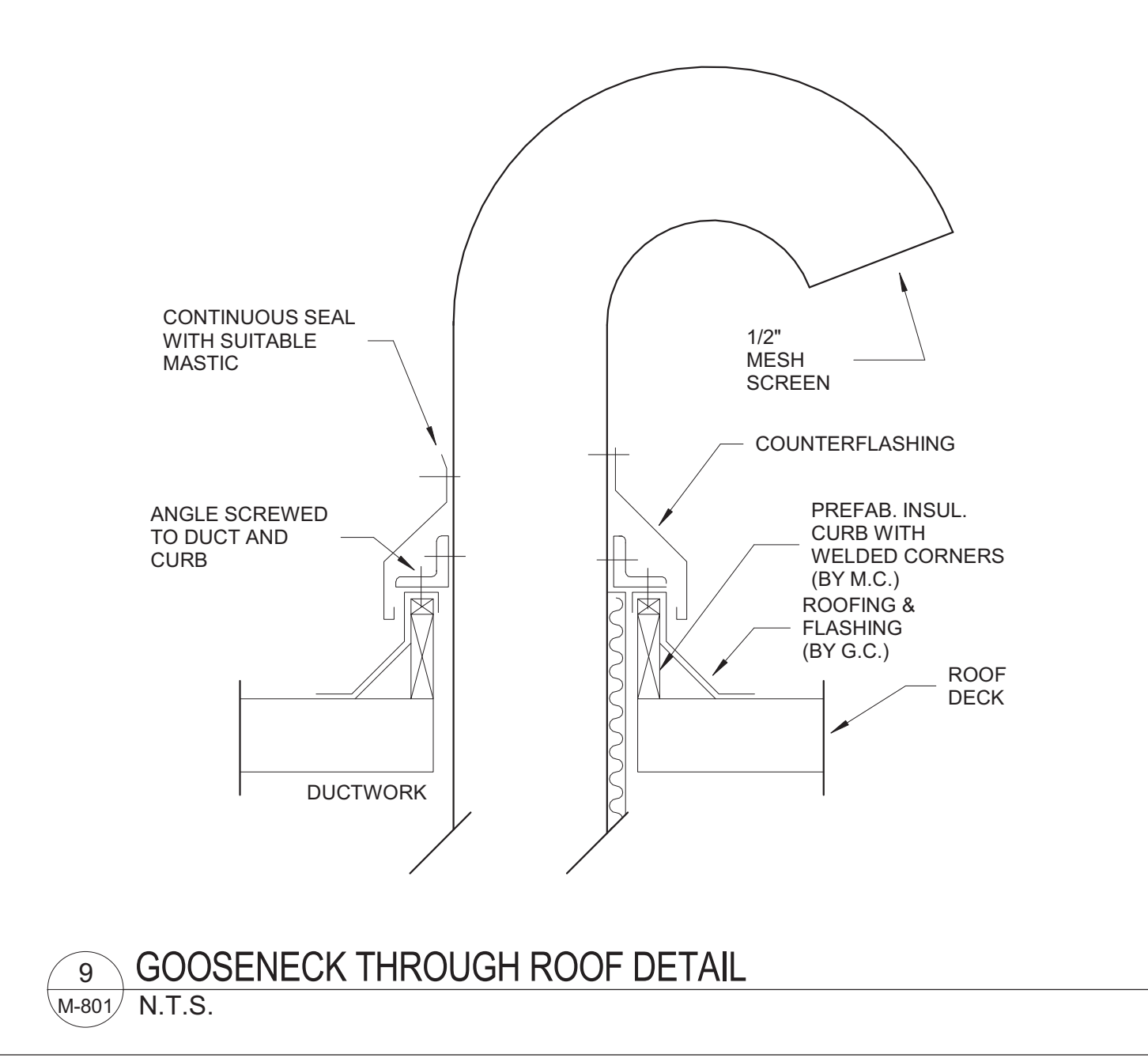
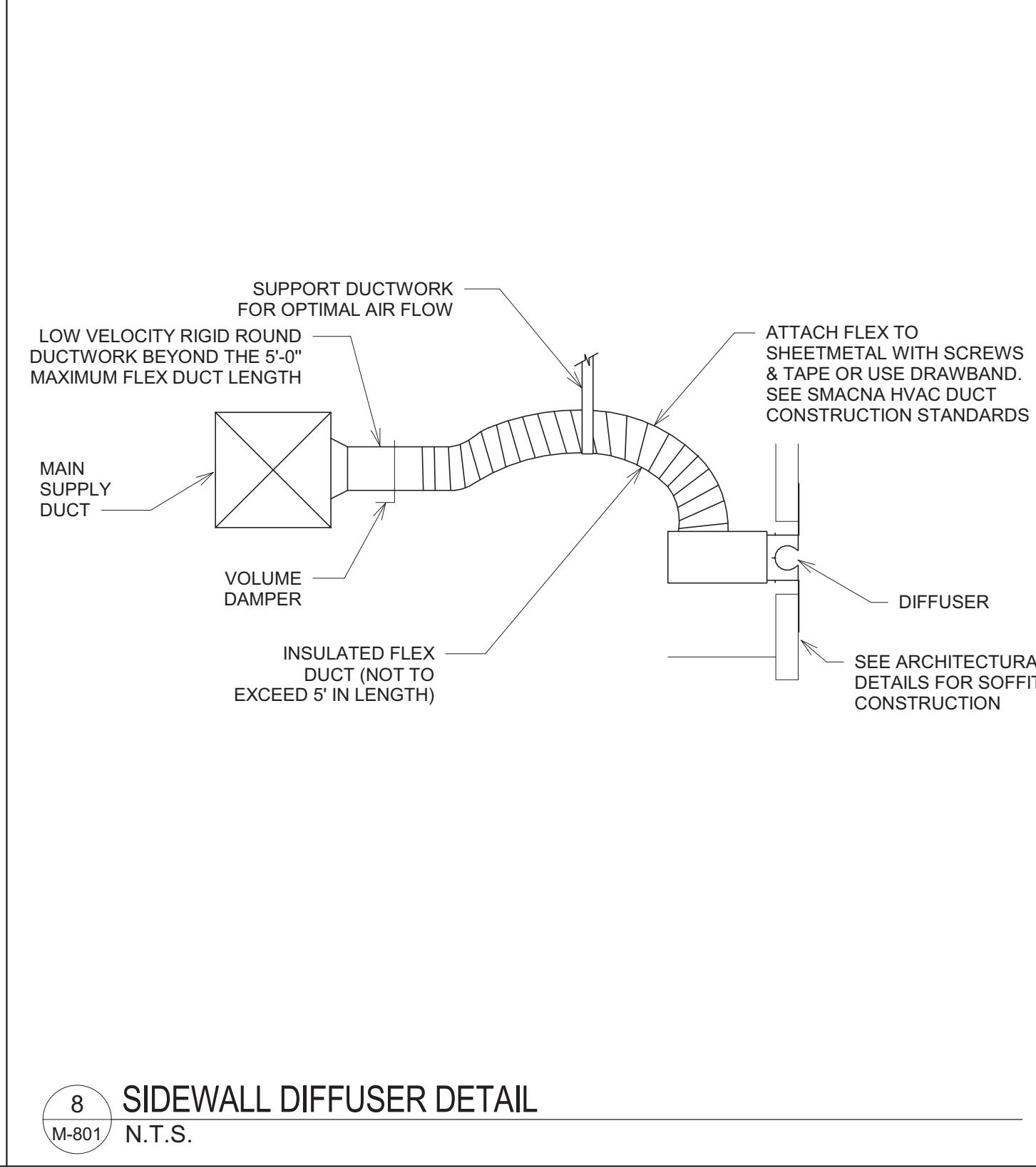
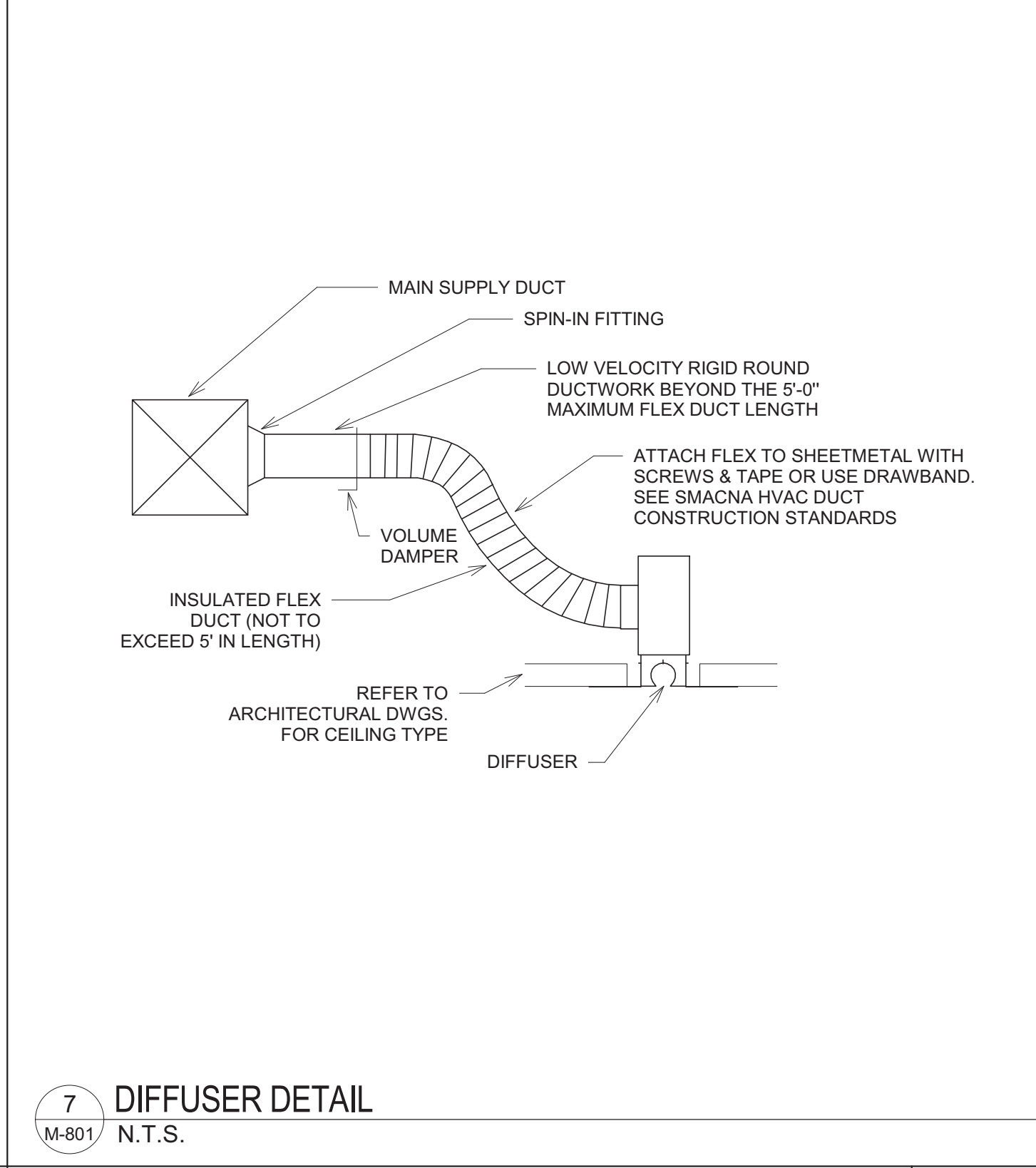
3 GRADE MOUNTED EQUIPMENT
N.T.S.



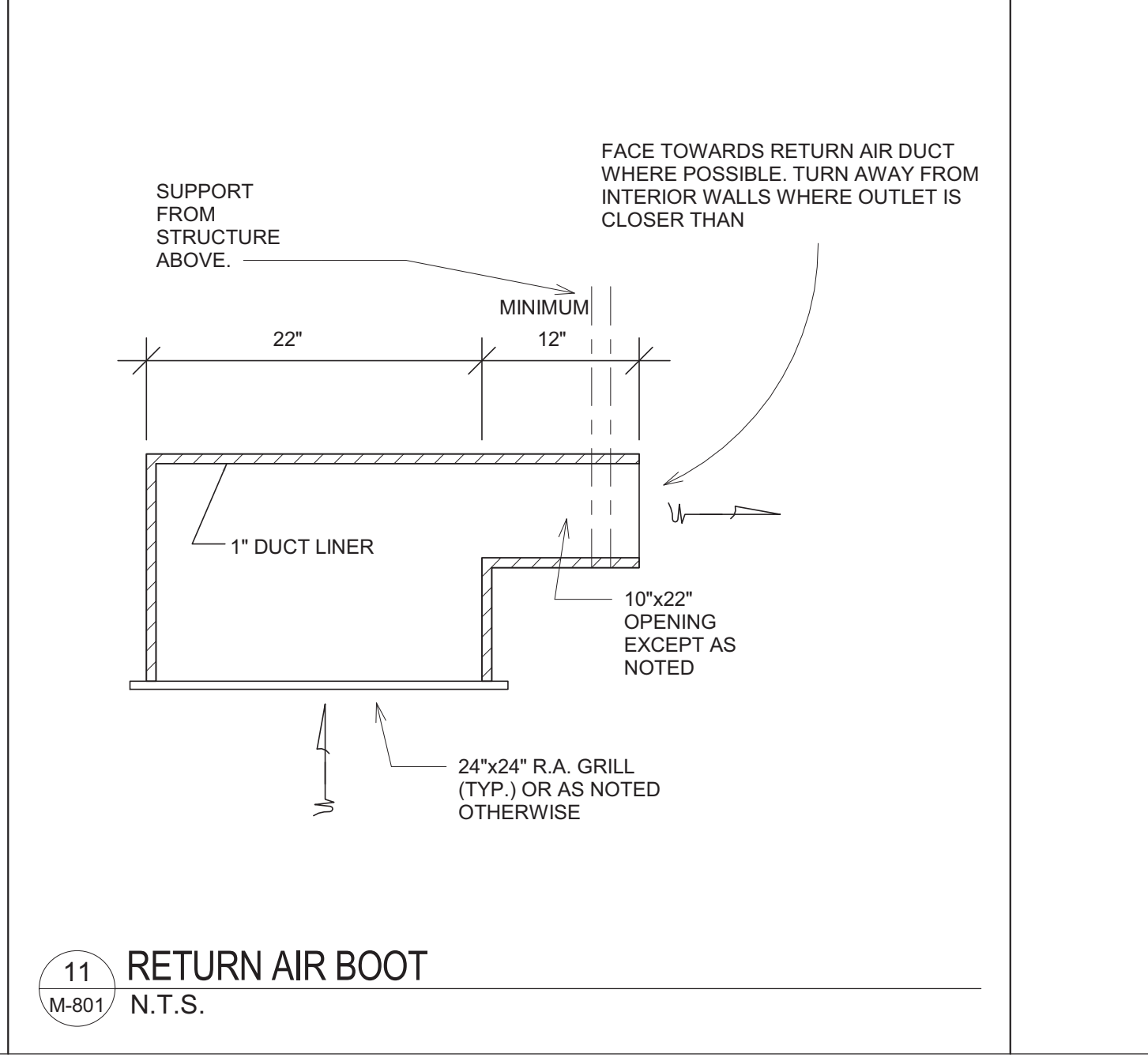
4 FRENCH DRAIN DETAIL
N.T.S.



6 EQUIPMENT PAD DETAIL
N.T.S.



10 FURNACE CONCENTRIC ROOF ADAPTER TERMINATION DETAIL
N.T.S.



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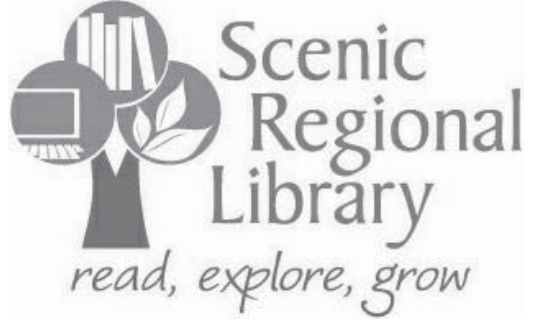
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PROJECT NUMBER: **16-1161.06**

SHEET TITLE:
DETAILS - MECHANICAL

M-801

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PROJECT NUMBER: **16-1161.06**

SHEET TITLE:
SCHEDULES - MECHANICAL

M-901

ROOFTOP UNIT SCHEDULE																				
PLAN MARK		MANUFACTURER	MODEL	SUPPLY AIRFLOW CFM	MINIMUM OUTSIDE AIR FLOW CFM	MINIMUM HEATING CFM	External Static Pressure	COOLING PERFORMANCE					HEATING PERFORMANCE				REFRIGERANT USED	MAX OPERATING WEIGHT (LBS)	NOTES	
								EDB (F°)	EWB (F°)	AMBIENT (F°)	LDB (F°)	DWB (F°)	TOTAL CAPACITY (MBh)	EDB (F°)	LDB (F°)	INPUT (MBh)				OUTPUT CAP. (MBh)
RTU	1	JOHNSON CONTROLS	ZST08N12	3200	750	965	1.00	80	66	95	58	56	96.8	40	68	120.0	96.0	R-410A	1102	1, 2, 3, 4, 5, 6, 7, 8, 9

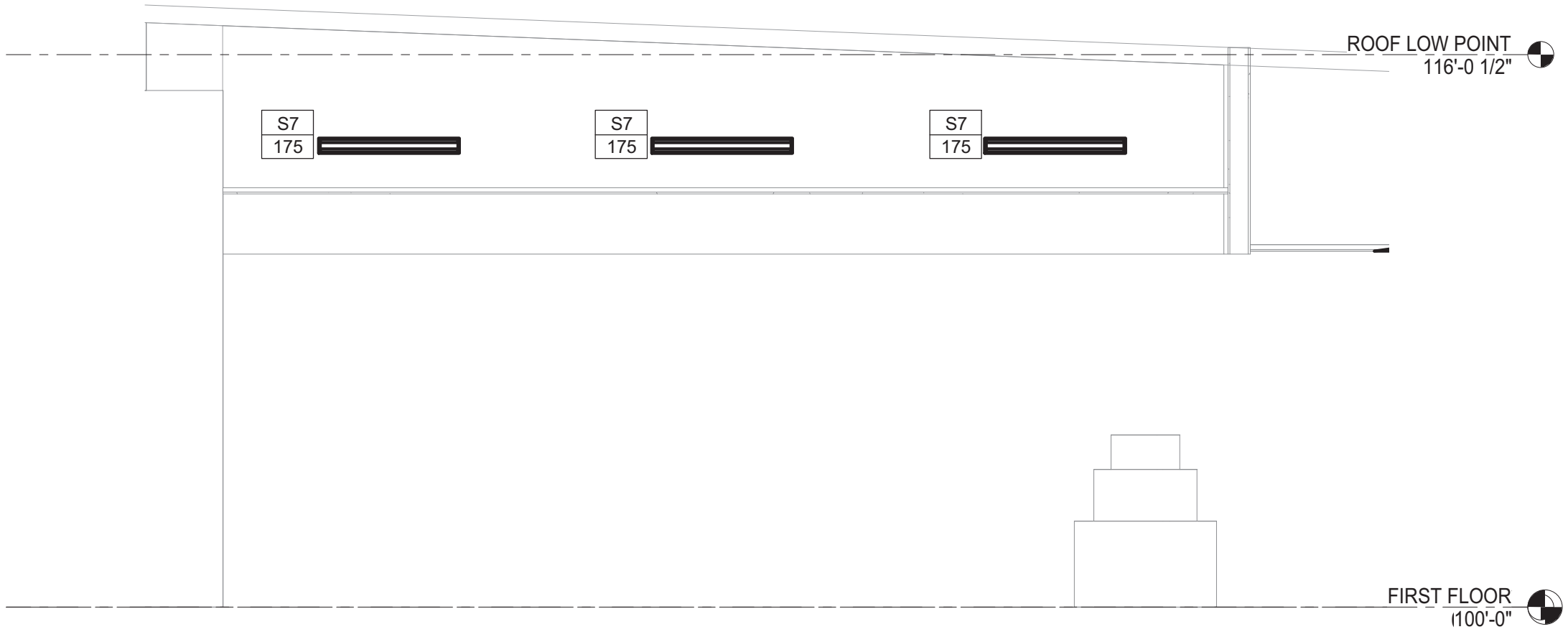
- NOTES:
1. SEE SHEET E-901 FOR ELECTRICAL REQUIREMENTS.
2. HEATING PERFORMANCE BASED ON FULL FLOW AND MINIMUM OUTSIDE AIRFLOW.
3. PROVIDE WITH INTEGRAL CONTROLS TO PROVIDE SINGLE ZONE VAV FAN OPERATION AS DEFINED BY ASHRAE 90.1 SECTION 6.4.3.10 TO MAINTAIN SPACE TEMPERATURE AND SPACE CO2 SET POINT. SPACE SENSOR SHALL BE 7 DAY PROGRAMMABLE TYPE WITH PASSWORD PROTECTION.
4. PROVIDE STAINLESS STEEL OR COMPOSITE DRAIN PAIN TO MEET ASHRAE 62.1.
5. PROVIDE WITH 14" SEISMIC CURB FOR GRADE MOUNTING OF UNIT.
6. PROVIDE WITH 100% ECONOMIZER WITH POWER EXHAUST AND BAROMETRIC RELIEF KIT.
7. UNIT SHALL BE CONFIGURED FOR HORIZONTAL SUPPLY AND RETURN.
8. PROVIDE WITH SINGLE POINT POWER CONNECTION, DISCONNECT SWITCH, AND CONVIENCE OUTLET.
9. PROVIDE WITH STAINLESS STEEL OR ALUMINIZED STEEL BURNER.

AIR DEVICE SCHEDULE														
TYPE MARK	MANUFACTURER	MODEL	STYLE	CONNECTION SIZE	FACE		MAXIMUM AIRFLOW (CFM)	THROW (FT)	MAX NC LEVEL	AIR TERMINAL STATIC PRESSURE (IN-WG)	MATERIAL	FINISH	MOUNTING TYPE	NOTES
					LENGTH	WIDTH								
S1	TITUS	OMNI	SQUARE PLAQUE	6"ø	12"	12"	100	5	30	0.10	STEEL	BWE	LAY-IN	1
S2	TITUS	OMNI	SQUARE PLAQUE	6"ø	24"	24"	160	5	30	0.10	STEEL	BWE	LAY-IN	1
S3	TITUS	OMNI	SQUARE PLAQUE	8"ø	24"	24"	280	12	30	0.10	STEEL	BWE	LAY-IN	1
S4	TITUS	OMNI	SQUARE PLAQUE	10"ø	24"	24"	410	13	30	0.10	STEEL	BWE	LAY-IN	1
S5	TITUS	OMNI	SQUARE PLAQUE	12"ø	24"	24"	550	16	30	0.10	STEEL	BWE	LAY-IN	1
S6	TITUS	FL-10	ONE 1" SLOT HIGHTHROW	6"ø	48"	3 3/4"	150	25	30	0.10	STEEL	BWE	LAY-IN	1
S7	TITUS	FL-10	TWO 1" SLOT HIGHTHROW	8"ø	48"	5 5/16"	300	16	30	0.10	STEEL	BWE	SURFACE MOUNT	
S8	TITUS	300RL	GRILL	12"x12"	12"	12"	530	19	30	0.10	STEEL	BWE	LAY-IN	1
R1	TITUS	350RL	GRILL		6"ø	24"	160	-	30	0.10	STEEL	BWE	LAY-IN	1
R2	TITUS	350RL	GRILL		8"ø	24"	280	-	30	0.10	STEEL	BWE	LAY-IN	1
R3	TITUS	350RL	GRILL		10"ø	24"	410	-	30	0.10	STEEL	BWE	LAY-IN	1
R4	TITUS	350RL	GRILL		12"x12"	12"	530	-	30	0.10	STEEL	BWE	LAY-IN	1
R5	TITUS	350RL	GRILL		22"x22"	24"	1500	-	30	0.10	STEEL	BWE	LAY-IN	1

- NOTES:
1. PROVIDE WITH EARTHQUAKE CLIPS.

EXHAUST FAN SCHEDULE									
PLAN MARK		MANUFACTURER	MODEL	AIRFLOW (CFM)	EXTERNAL STATIC PRESSURE (IN-WC)	FAN RPM	INLET SONES	MOTOR POWER WATTS	NOTES
EF	1	LOREN COOK	GC-182	210	0.12	1400	6.8	175	1
EF	2	LOREN COOK	GC-182	210	0.12	1400	6.8	98	1

- NOTES:
1. SEE SHEET E-901 FOR ELECTRICAL REQUIREMENTS.



1
M-901
SIDEWALL DIFFUSERS IN 609 CIRCULATION
1/4" = 1'-0"

PLUMBING GENERAL NOTES - PLUMBING SHEETS ONLY

1. THESE PLANS ARE DIAGRAMMATIC IN NATURE SINCE THEY REFLECT ONLY THE AVAILABLE INFORMATION OBTAINED FROM SPECIFICATIONS AND FIELD SURVEYS. THE EXACT LOCATION OF EXISTING PIPING, AND EQUIPMENT MAY DEVIATE FROM THE LOCATION INDICATED ON THESE DRAWINGS. THE CONTRACTOR SHALL BE PREPARED TO MAKE SOME ALTERATIONS TO SERVICES TO FIT ACTUAL JOB CONDITIONS.

2. PIPING DRAWINGS ARE TO BE CONSIDERED SCHEMATIC AND ARE NOT INTENDED TO INDICATE ALL CHANGES IN DIRECTION. ALL NECESSARY FITTINGS TO BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. PIPE AND FITTINGS MUST BE INSTALLED SO THAT ALL PIPE AND/OR INSULATION COMPLETELY CLEARS ALL NEARBY STRUCTURES, PIPING AND ITEMS BY OTHER CONTRACTORS.

3. CONTRACTOR SHALL VERIFY EXACT LOCATION, CONDITION, ELEVATION AND SIZES OF UTILITIES AT SITE BEFORE PROCEEDING WITH WORK.

4. PLUMBING CONTRACTOR TO COORDINATE THE INSTALLATION OF ALL PIPING, VALVES, AND EQUIPMENT WITH GENERAL CONTRACTOR AND RELATED STRUCTURAL, MECHANICAL, ELECTRICAL, AND FIRE PROTECTION CONTRACTORS.

5. ALL FIXTURES AND PIPING SHALL BE SIZED, VENTED, TRAPPED AND INSTALLED IN ACCORDANCE WITH UNIFORM PLUMBING CODE 2009 EDITION AND INTERNATIONAL BUILDING CODE 2009 EDITION.

6. CONTRACTOR SHALL PROTECT ALL ADJACENT AREAS DURING ALL PHASES OF CONSTRUCTION.

7. ANY HOLES LEFT IN WALL CONSTRUCTION DUE TO WORK SHALL BE PATCHED AND PAINTED BY THIS CONTRACTOR TO MATCH CONSTRUCTED CONDITIONS. COORDINATE FINISH AND MATERIALS WITH ARCHITECT.

8. PLUMBING CONTRACTOR TO FURNISH AND INSTALL SUPPLY STOP SHUT-OFF VALVES ON ALL FIXTURE WATER SUPPLY LINES. FURNISH AND INSTALL WATER HAMMER ARRESTORS AS INDICATED ON PLANS. INSTALL VALVES IN ACCESSIBLE LOCATION. IF LOCATION IS NOT READILY ACCESSIBLE, COORDINATE ACCESS PANEL REQUIREMENTS WITH GENERAL CONTRACTOR.

9. PLUMBING CONTRACTOR TO FURNISH AND INSTALL SHUT-OFF VALVES AND ACCESS PANELS AT THE BASE OF ALL WATER SUPPLY PIPING RISERS.

10. PLUMBING CONTRACTOR TO PROVIDE CLEANOUT AT THE BASE OR NO MORE THAN 4 FT ABOVE FLOOR OF ALL WASTE, AND SANITARY STACKS.

11. PLUMBING CONTRACTOR SHALL VERIFY THAT ALL VALVES IN THE COLD AND HOT WATER SUPPLY PIPING ARE IN THE FULLY OPEN POSITION. CONTRACTOR TO VERIFY ALL BALANCING VALVES ON HOT WATER CIRCULATING PIPING ARE OPEN AND ADJUSTED AS NOTED TO ASSURE PROPER CIRCULATION.

12. PLUMBING CONTRACTOR TO FURNISH AND INSTALL EQUIPMENT DRAINS FOR ALL APPLIANCES (AIR HANDLERS, WATER HEATERS, KITCHEN EQUIPMENT, ETC.) AND ROUTE TO THE NEAREST FLOOR DRAIN. PROVIDE INDIRECT CONNECTION AT DRAIN AS REQUIRED. FINAL CONNECTION TO EQUIPMENT SHOULD BE MADE BY CONTRACTOR PROVIDING EQUIPMENT UNLESS OTHERWISE NOTED.

13. WATER TEMPERATURE SETTING FOR WATER HEATER AND THERMOSTATIC MIXING VALVES SHALL BE AS FOLLOWS:
WATER HEATER - 140 DEG F
THERMOSTATIC MIXING VALVE - 110 DEG F

14. ALL PIPING SHALL BE CONCEALED IN CHASE, WALLS, CEILING, FLOORING, ETC. UNLESS OTHERWISE NOTED. PIPING SHOWN OUTSIDE OF WALL FOR CLARITY ONLY.
15. REFER TO PLUMBING FIXTURE SCHEDULE FOR WASTE, VENT AND SUPPLY SIZES TO INDIVIDUAL FIXTURES.

16. EQUIPMENT AND FIXTURE SYMBOLOGY MAY NOT REFLECT ACTUAL TYPE. REFER TO SPECIFICATIONS AND SCHEDULES FOR FIXTURE OR EQUIPMENT TYPE.

17. FIRE CAULK ALL PIPING PENETRATIONS THROUGH FIRE RATED PARTITIONS TO MAINTAIN FIRE RATING OF PARTITION. CONTRACTOR TO FIRESTOP ALL PENETRATIONS THROUGH FIRE-RATED FLOORS AND WALLS CREATED BY NEW WORK WITH "SPECSEAL SSS" OR EQUAL.

18. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL CONCRETE EQUIPMENT PAD FOR ALL EQUIPMENT SUPPLIED BY THIS CONTRACTOR. PAD SHOULD BE A MINIMUM OF 4" THICK.

19. ALL ITEMS INCLUDED ON THESE DRAWINGS AND THE SPECIFICATIONS SHALL BE INCLUDED IN THE CONTRACTOR'S BID. ANY ITEMS THAT ARE UNCLEAR OR FOUND TO BE INCORRECT BY THE CONTRACTOR SHALL BE BROUGHT, IN WRITING, TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO THE BID DUE DATE.

20. CAULK ALL PIPING PENETRATIONS THROUGH WALLS TO MINIMIZE SOUND PENETRATION THROUGH WALLS.

21. INVERT ELEVATIONS ARE BASED ON FIRST FLOOR LEVEL BEING SET AT 100'-0".

22. LOCATIONS OF ROOF DRAINS, FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. INDICATED ON THESE DRAWINGS ARE CONSIDERED APPROXIMATE. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF FINAL AND EXACT LOCATIONS WITH ALL OTHER TRADES AND EQUIPMENT SUPPLIERS PRIOR TO INSTALLATION. DRAINS, ETC., NOT CORRECTLY LOCATED AS DETERMINED BY THE ARCHITECT/ENGINEER/OWNER SHALL BE REMOVED AND RELOCATED AT THIS CONTRACTOR'S EXPENSE.

23. ALL VTR'S SHALL BE LOCATED A MINIMUM OF 12'-0" FROM AIR INTAKES ON MECHANICAL ROOFTOP EQUIPMENT. COORDINATE WITH ALL TRADES PRIOR TO INSTALLATION.

24. AREA ABOVE CEILINGS SERVE AS A RETURN AIR PLENUM. ALL MATERIALS EXPOSED IN THE PLENUM SHALL HAVE A 25/50 SMOKE/FLAME SPREAD RATING. NO PVC PIPING ALLOWED ABOVE CEILING. ALL SANITARY AND VENT PIPING TO BE CAST IRON ABOVE CEILING. ALL GAS PIPING ABOVE CEILING TO BE STEEL WITH WELDED JOINTS. ALL POLYPROPYLENE WATER PIPING ABOVE CEILING SHALL BE WRAPPED TO ACHIEVE 25/50 SMOKE/FLAME SPREAD RATING.

25. MAKE ALL FINAL PLUMBING CONNECTIONS TO PLUMBING FIXTURES AND EQUIPMENT SHOWN ON PLANS.

26. EXCAVATION, BEDDING AND BACKFILL ASSOCIATED WITH BELOW SLAB PIPING INSTALLATION SHALL BE CONSIDERED PART OF THE PLUMBING CONTRACTOR'S WORK.

27. STARTING ELEVATION FOR SANITARY SEWER PIPING TO BE NOT LESS THAN 1'-6" BELOW FINISHED FLOOR UNLESS NOTED OTHERWISE.

28. ALL PLUMBING PIPING IN FINISHED ROOMS, OPEN TO STRUCTURE SHALL BE PAINTED TO MATCH STRUCTURE. DOMESTIC WATER PIPING SHALL BE PAINTED WITH PAINT THAT HAS ELASTOMERIC PROPERTIES, SUITABLE FOR PAINTING PLASTIC MATERIALS. FOLLOW PAINT MANUFACTURER'S INSTRUCTIONS FOR PIPE SURFACE PREPARATION AND PAINT APPLICATION.

29. OWNER HAS FIRST SALVAGE RIGHT TO ALL FIXTURES TO BE REMOVED. DISPOSE OF REMAINDER OF DEMOLISHED MATERIALS IN AN ENVIRONMENTALLY ACCEPTABLE MANNER.

PLUMBING FIXTURE SCHEDULE (BASIS OF DESIGN)

MARK	DESCRIPTION	MANUFACTURER	MODEL NUMBER	WASTE	VENT	COLD WATER	HOT WATER	NOTES
WC-1	WATER CLOSET, FLOOR MOUNT	KOHLER	K-4405	4"	2"	-	-	ADA COMPLIANT, FLOOR MOUNT, FLOOR DISCHARGE
	FLUSH VALVE	SLOAN	WES-111-W	-	-	1-1/4"	-	1.1 TO 1.6 gpf DUAL FLUSH MANUAL FLUSHOMETER
LA-1	LAVATORY (WALL HUNG)	KOHLER	K-2005	1-1/2"	1-1/2"	-	-	WALL HUNG, ADA COMPLIANT, PROVIDE CARRIER
	FAUCET	CHICAGO FAUCETS	895-317GP	-	-	1/2"	1/2"	ADA COMPLIANT LEVER HANDLES
SK-1	SINK	ELKAY	LR1919	1-1/2"	1-1/2"	-	-	SINGLE BASIN, SS SINK
	FAUCET	CHICAGO FAUCETS	895-317GN8AE29VPCP	-	-	1/2"	1/2"	2.2 GPM, WRIST BLADE PADDLES, 8" GOOSENECK
WH-1	HOSE BIBB	WOODFORD	24	-	-	1/2"	-	INTERIOR, ANTI-SIPHON WALL HYDRANT
OB-1	OUTLET BOX	OATEY	39140	-	-	1/2"	-	
TMV-1	THERMOSTATIC MIXING VALVE	LEONARD	TM-420 B-LF-DT	-	-	3/4"	3/4"	SET TO 110 DEGREE OUTLET TEMP.
MSB-1	MOP SINK BASIN	FIAT	TSB3003	2"	1-1/2"	-	-	24" X 36" FLOOR SET, SS CAPS
	MOP SINK FAUCET	FIAT	830-AA	-	-	1/2"	1/2"	-
EW-1	ELECTRIC WATER COOLER	ELKAY	EZH20	1-1/2"	1"	1/2"	-	ADA COOLER WITH BOTTLE FILLER
GD-1	GARBAGE DISPOSAL	INSINKERATOR	EVOLUTION	-	-	-	-	INSTALL BELOW COUNTER
OB-1	OUTLET BOX	SIOUX CHEIF	696-G1010MF	-	-	-	-	REFRIGERATOR/ICEMAKER OUTLET BOX; WITH ARRESTORS
NOTES								

DRAIN SCHEDULE (BASIS OF DESIGN)

MARK	MANUFACTURER	MODEL #	GRATE	BODY	STRAINER	REMARKS
FD-1	JAY R. SMITH	2110	NB	CI	SS	PROVIDE WITH TRAP GUARD TRAP SEAL, SURESEAL OR ENGINEER APPROVED EQUAL.
FCO	SIOUX CHIEF	834-64DNR	N/A	DUCTILE IRON	N/A	NICKLE BRONZE ROUND COVER PLATE.
REMARKS: NB NICKEL BRONZE SS STAINLESS STEEL CI CAST IRON - INDICATES NOT APPLICABLE						

DRAIN NOZZLE SCHEDULE

MARK	MANUFACTURER	MODEL #	SIZE	FINISH	REMARKS
DS-1	J.R. SMITH	1771	PER PIPE SIZE	NICKEL BRONZE	COORDINATE CUSTOM COLOR WITH ARCHITECT.

ELECTRIC WATER HEATER SCHEDULE

MARK	MANUFACTURER	MODEL NO.	STORAGE	OUTLET TEMPRATURE	RECOVERY AT 100° F RISE	INPUT	COMMENTS
EW-1	A.O. SMITH	DEL-10D-4.5	10 GAL	140	18 GAL	4.5 KW	

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PLUMBING SYMBOLS AND ABBREVIATIONS

SYMBOL	DESCRIPTION
	DIRECTION OF FLOW OR SLOPE
	DOMESTIC COLD WATER (CW)
	DOMESTIC HOT WATER (HW)
	HOT WATER CIRCULATING (HWC)
	SANITARY SEWER (S)
	SANITARY SEWER BELOW SLAB (S)
	VENT (V)
	STORM SEWER BELOW SLAB (ST)
	NATURAL GAS (G)
	RISE OR UP
	DROP OR DOWN
	BRANCH CONNECTION - TOP
	BRANCH CONNECTION - BOTTOM
	CLEANOUT
	CAP / PLUG
	FIXTURE TRAP
	VALVE
	CHECK VALVE
	STRAINER
	UNION
	GAS VALVE
	PRESSURE REGULATOR - GAS
	METER
	DOMESTIC CIRCULATING PUMP (DCP)
	PRESSURE/TEMPERATURE RELIEF VALVE
	DOUBLE CHECK BACKFLOW PREVENTER (BFP)
	FLOOR DRAIN (FD)
	FLOOR CLEANOUT (FCO)
	KEYED NOTE
	MISCELLANEOUS EQUIPMENT TAG
ADA	AMERICANS WITH DISABILITIES ACT
BTC	BRANCH TO CONNECTION
CFH	CUBIC FEET PER HOUR
CI	CAST IRON
CO	CLEANOUT
DN	DOWN
DP	DROP
DS	DOWNSPOUT
DWV	DRAIN WASTE VENT
EWC	ELECTRIC WATER COOLER
EXIST.	EXISTING
FCO	FLOOR CLEANOUT
FLA	FULL LOAD AMPS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
I.E. OR INV. ELEV.	INVERT ELEVATION
LA	LAVATORY
MB	MOP BASIN
M.C.	MECHANICAL CONTRACTOR
N.C.	NORMALLY CLOSED
ODN	OVERFLOW DOWN SPOUT NOZZLE
ODS	OVERFLOW DOWN SPOUT
P.C.	PLUMBING CONTRACTOR
SK	SINK
SQ. FT.	SQUARE FEET
SS	SANITARY STACK
TMV	THERMOSTATIC MIXING VALVE
TYP	TYPICAL
UR	URINAL
VS	VENT STACK
VTR	VENT THRU ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
YCO	YARD CLEAN OUT
*NOTE: NOT ALL SYMBOLS/ABBREVIATIONS USED FOR THIS PROJECT.	

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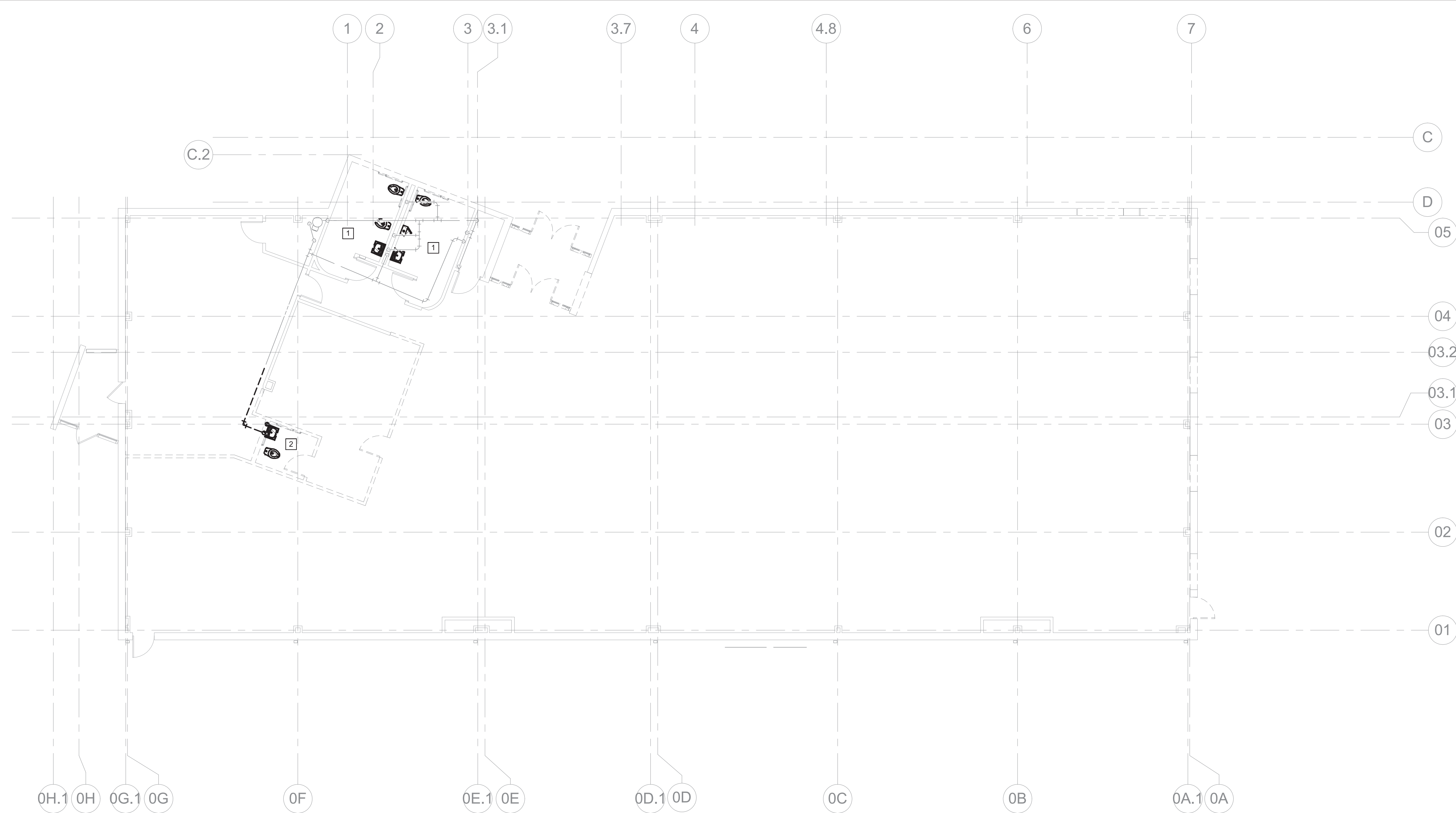
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PROJECT NUMBER: **16-1161.06**

SHEET TITLE:
**LEGEND, SYMBOLS, NOTES,
ABBREVIATIONS, & SCHEDULES -
PLUMBING**

P-001



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GENERAL NOTES

1 SEE SHEET P-001 FOR GENERAL NOTES THAT APPLY TO THIS SHEET.

KEYED NOTES

#

1 REMOVE EXISTING PLUMBING FIXTURES. TEMPORARILY CAP PIPES SERVING FIXTURES FOR FUTURE USE.

2 REMOVE EXISTING PLUMBING FIXTURES.

1 DEMO PLAN - FIRST FLOOR - PLUMBING
PD-201 1/8" = 1'-0"



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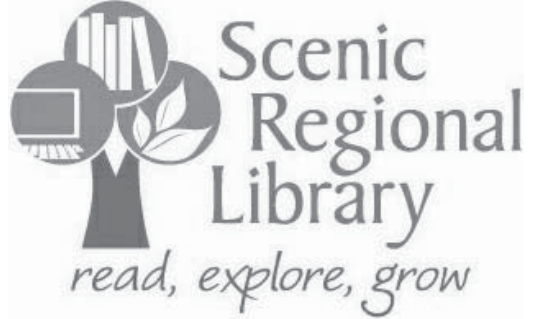
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PROJECT NUMBER: **16-1161.06**

SHEET TITLE:
**DEMO PLAN - FIRST FLOOR -
PLUMBING**

PD-201

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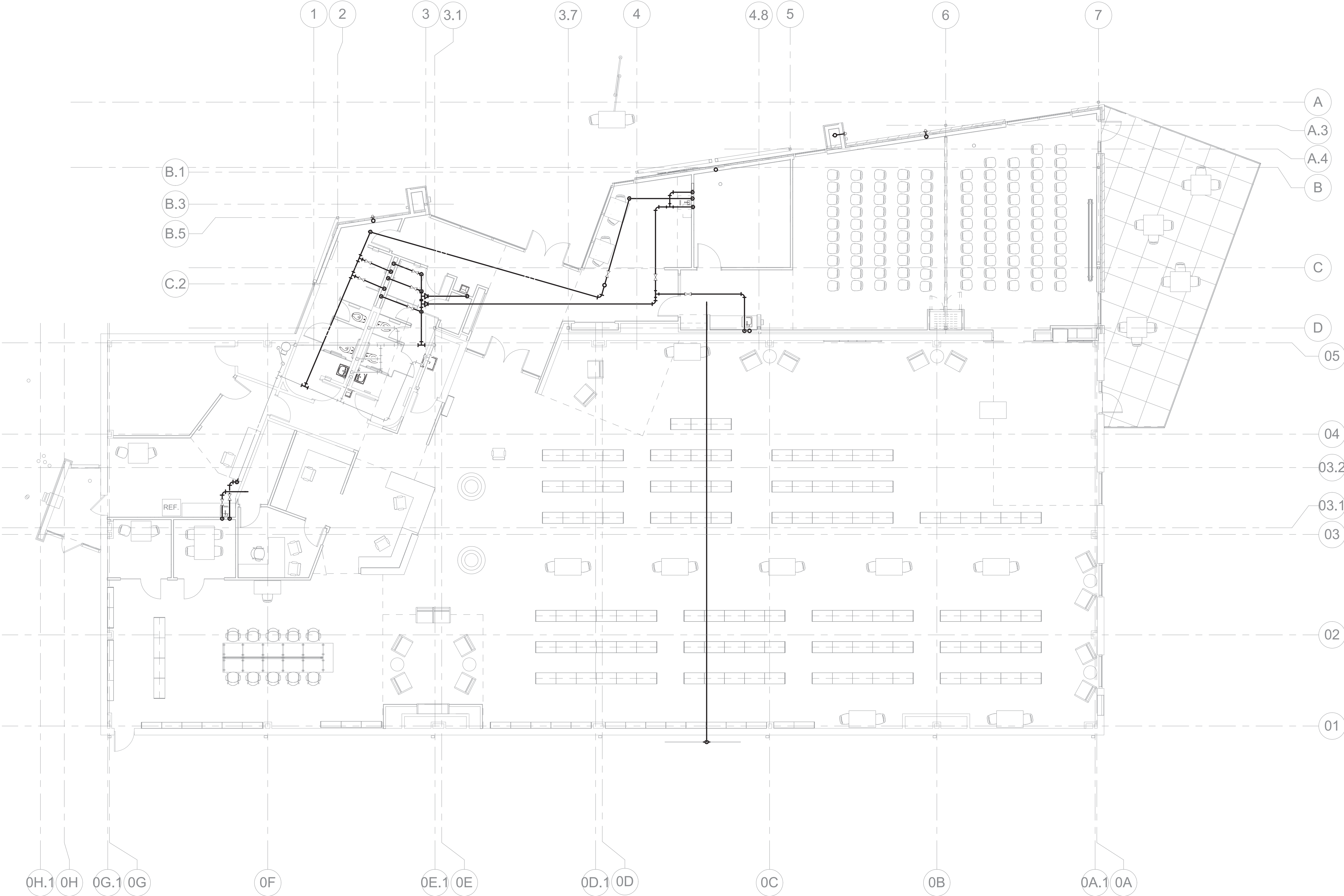
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PROJECT NUMBER: **16-1161.06**

SHEET TITLE:
**FLOOR PLAN - FOUNDATION -
PLUMBING**

P-200

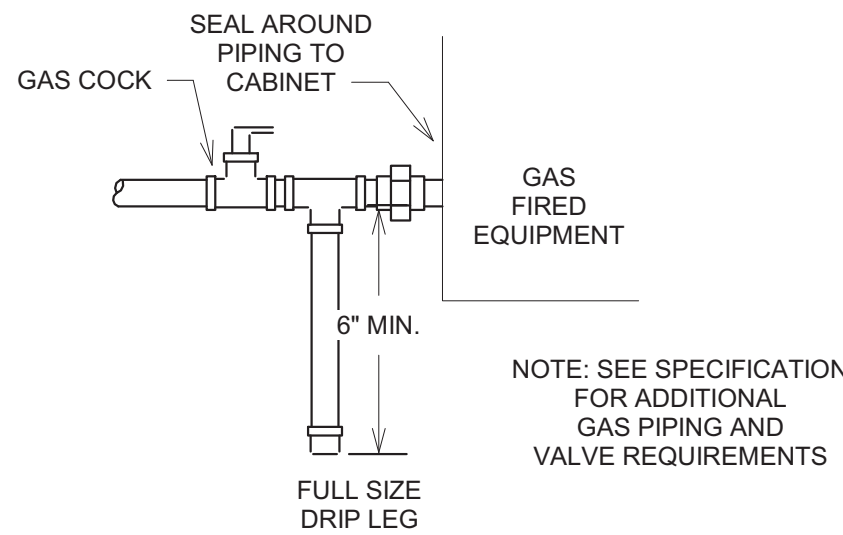


1 FLOOR PLAN - FOUNDATION - PLUMBING
P-200 1/8" = 1'-0"

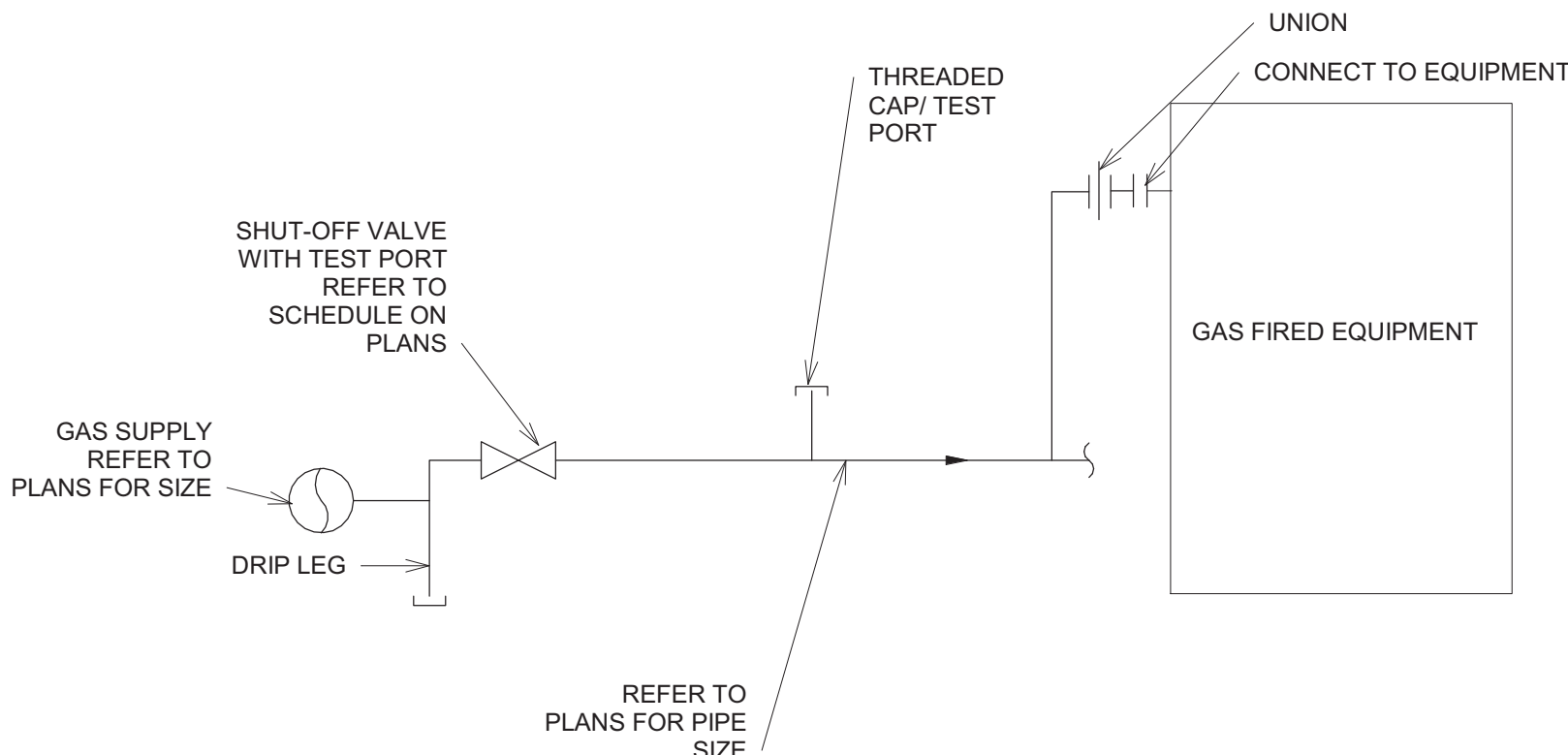


P-201

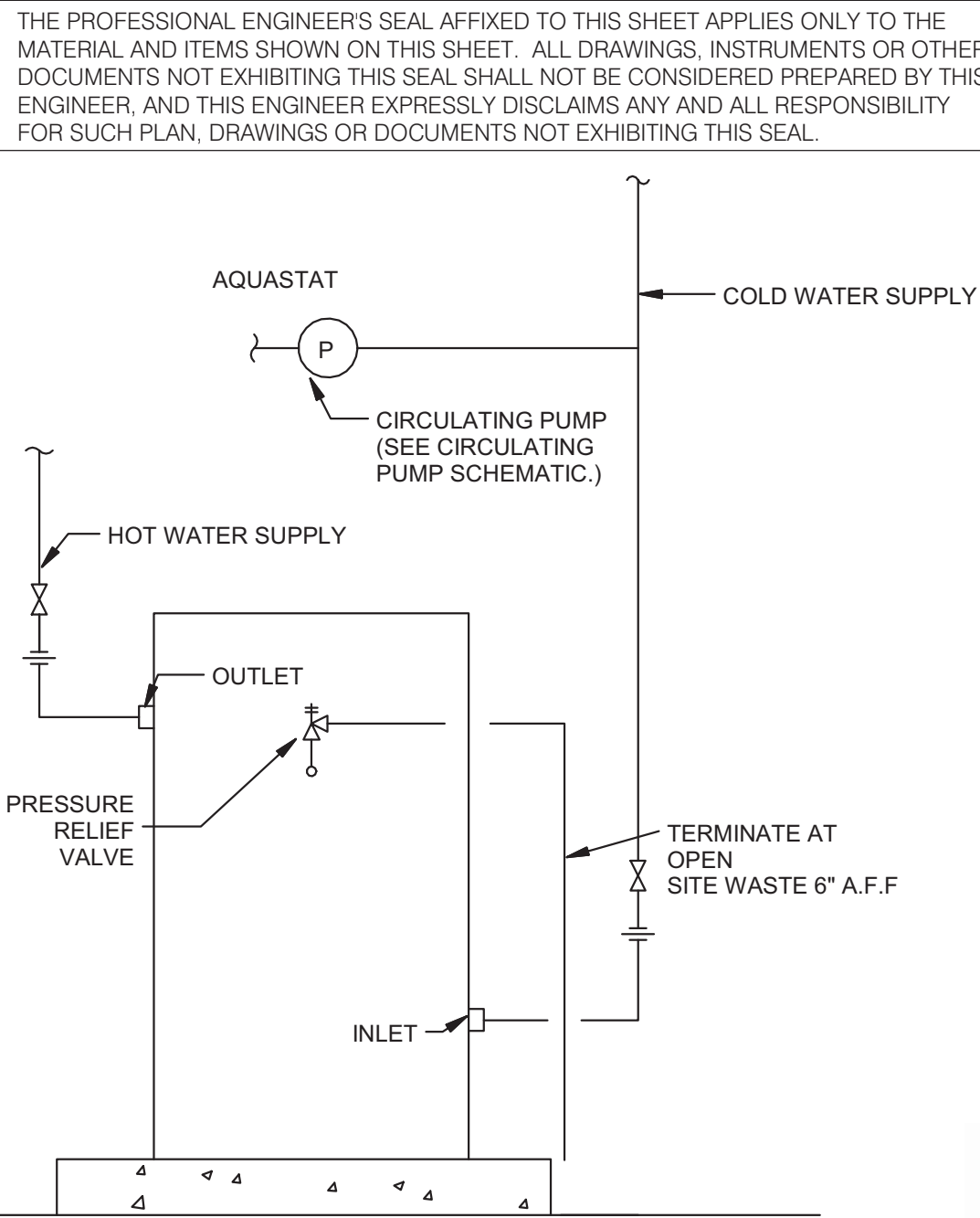
Number	Name
600	VESTIBULE
601	CORRIDOR
602	CAFE/VENDING
603	STORAGE
604	COATS
605	MEETING ROOM A
606	MEETING ROOM B
607	CHILDRENS AREA
608	TEEN AREA
609	CIRCULATION
610	ADULTS AREA
611	CIRCULATION
612	STUDY
613	STUDY
614	OFFICE
616	WORK ROOM
617	CORRIDOR
618	JANITOR'S CLOSET
619	ELECT.
620	CORRIDOR
621	WOMENS
622	MENS
623	MECH / ELEC
624	WORK AREA
625	STORAGE
626	BREAK ROOM
627	ELEC.
628	BOOK DROP
629	CORRIDOR



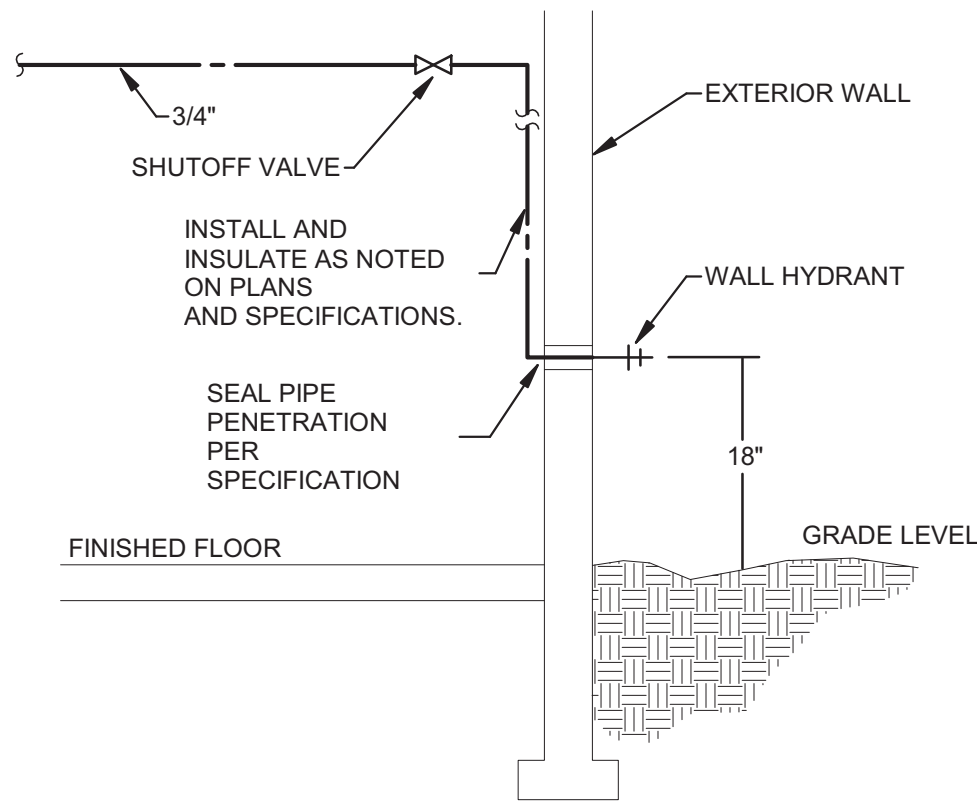
1 GAS PIPING DETAIL
P-801 N.T.S.



2 TYPICAL GAS CONNECTION TO EQUIPMENT SCHEMATIC
P-801 N.T.S.

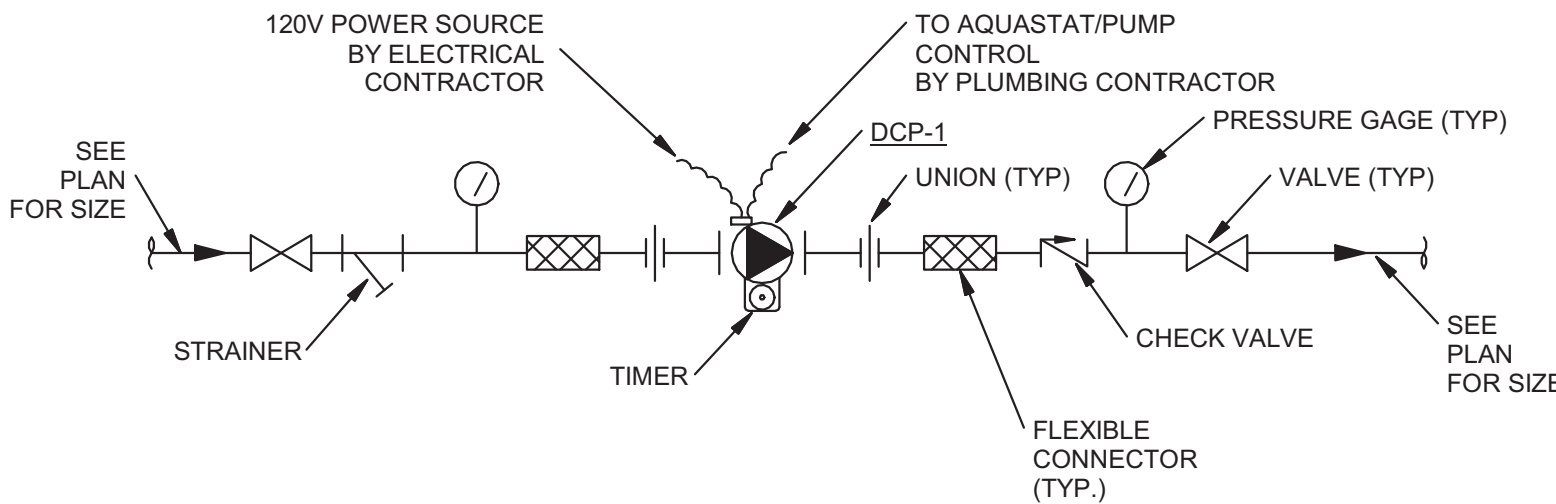


3 ELECTRIC WATER HEATER SCHEMATIC
P-801 N.T.S.

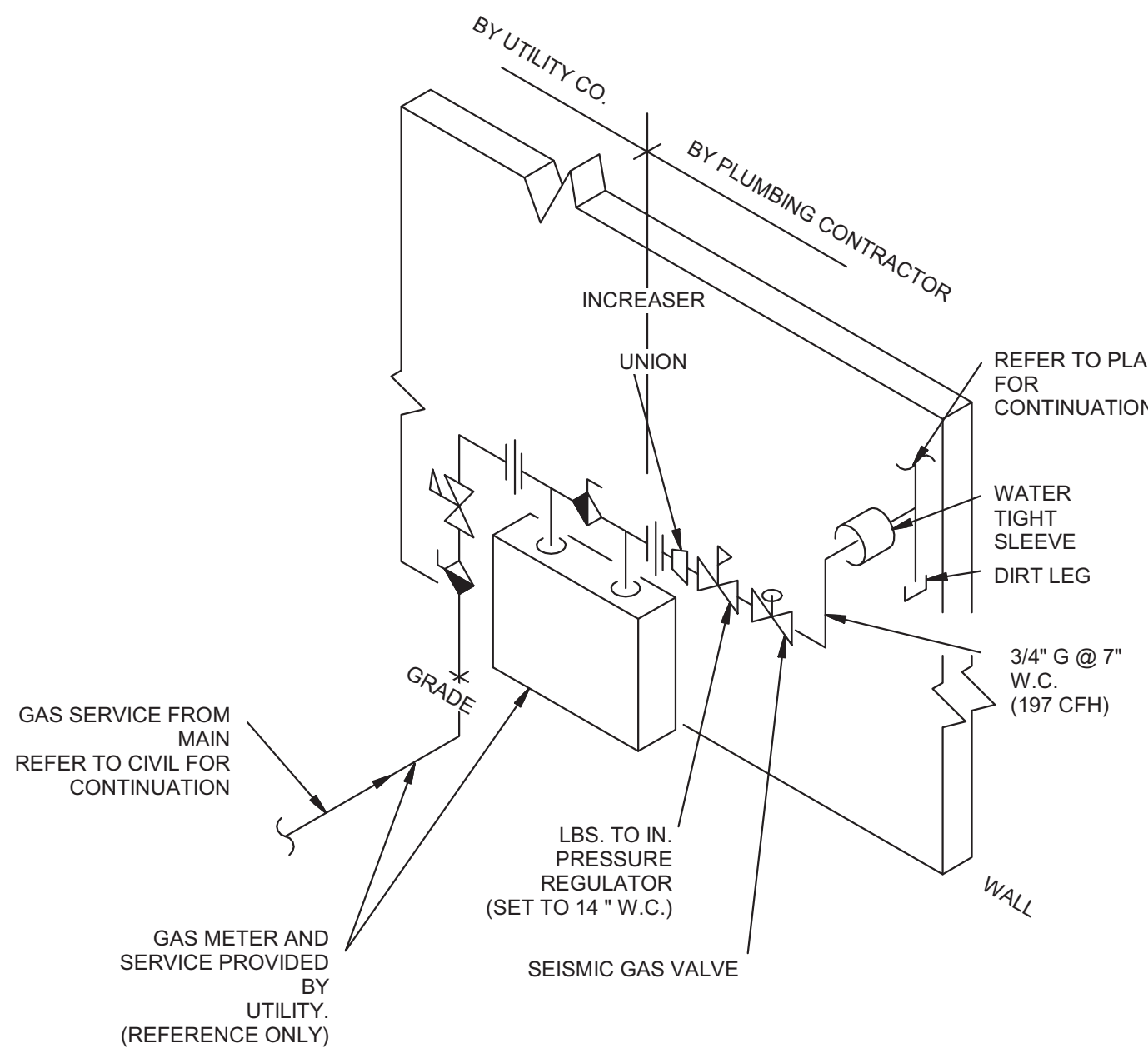


GENERAL NOTES:
1. CONTRACTORS SHALL COORDINATE LOCATION OF SHUT-OFF VALVE TO ENSURE ACCESSIBILITY.

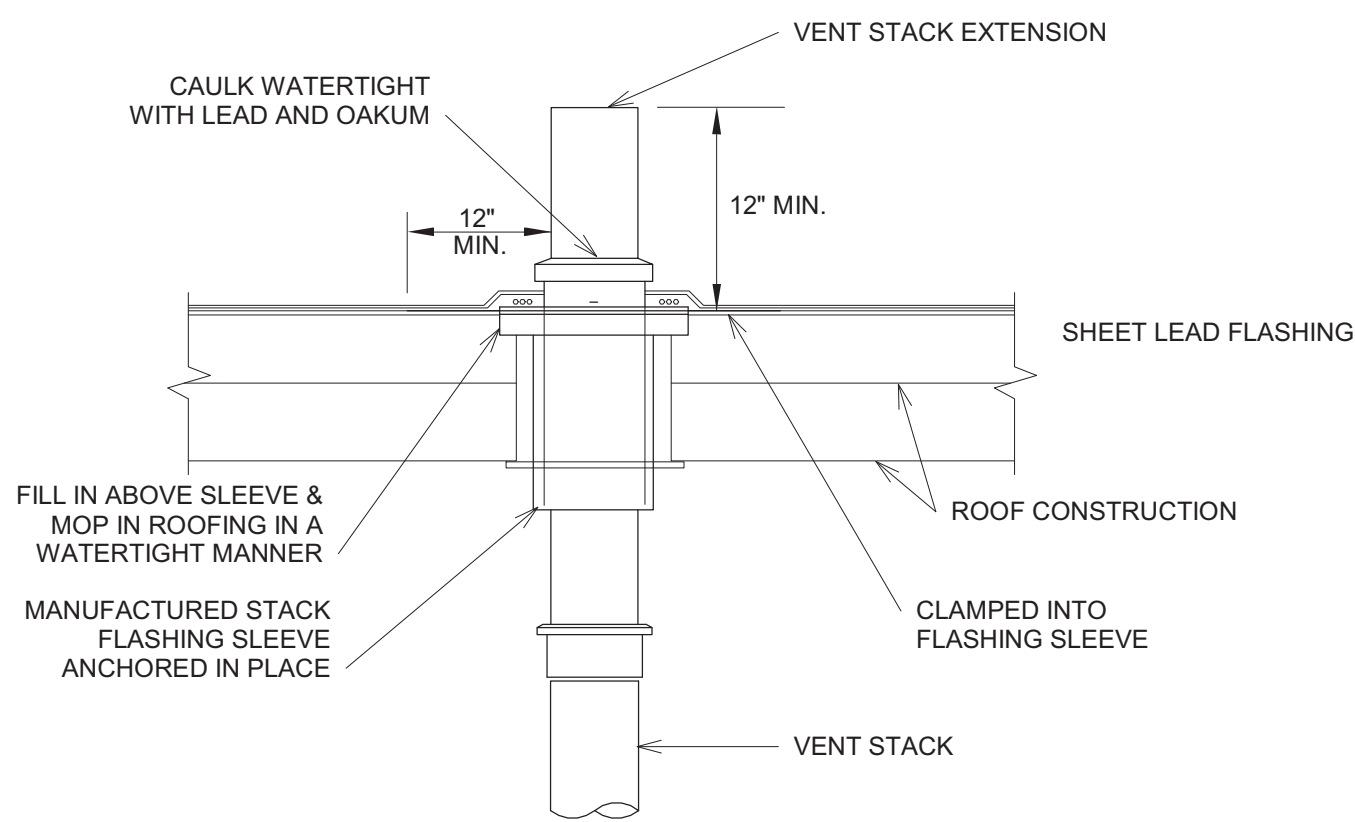
4 WALL HYDRANT
P-801 N.T.S.



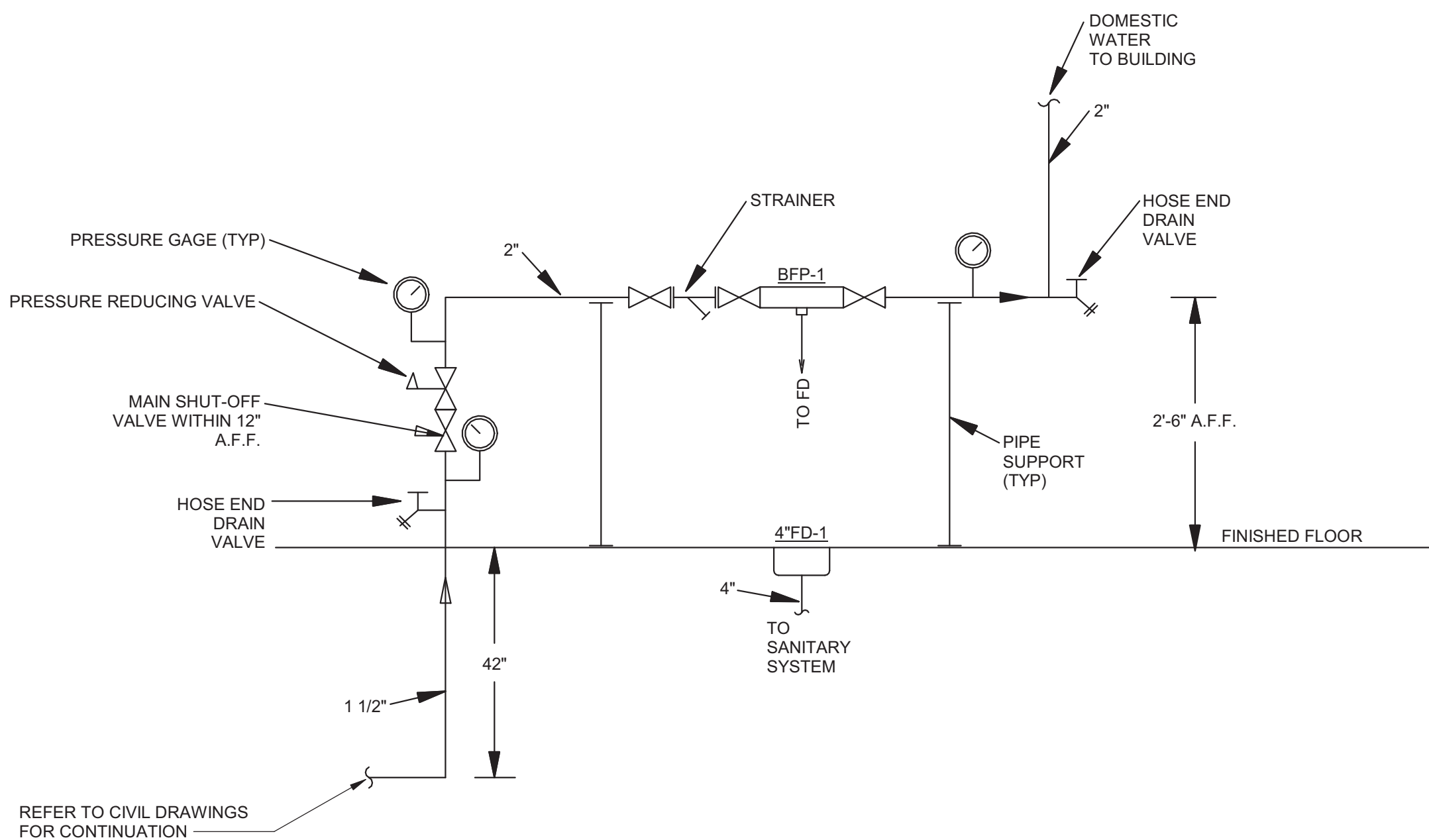
5 DOMESTIC CIRCULATING PUMP SCHEMATIC
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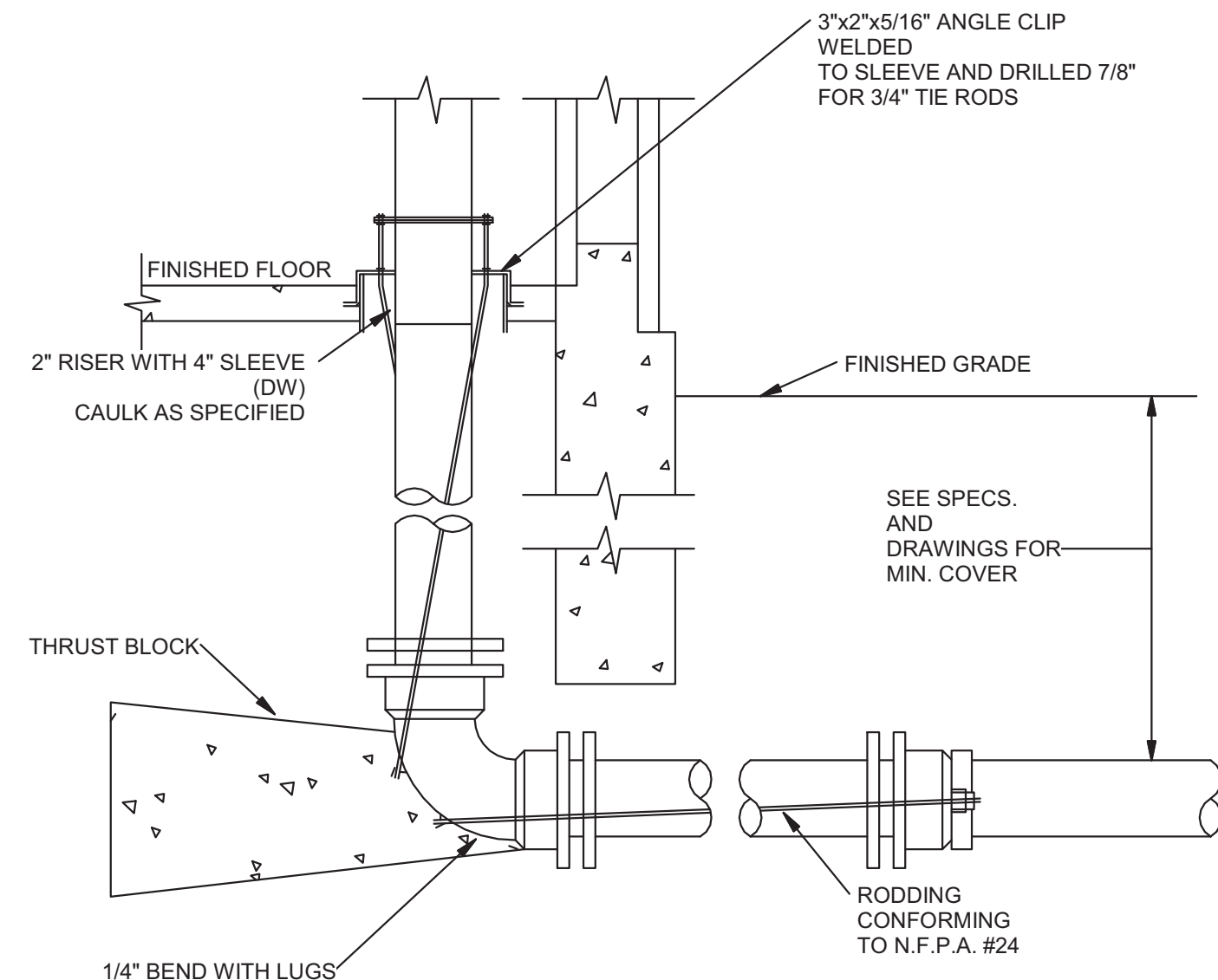
6 GAS SERVICE ENTRANCE SCHEMATIC
P-801 N.T.S.



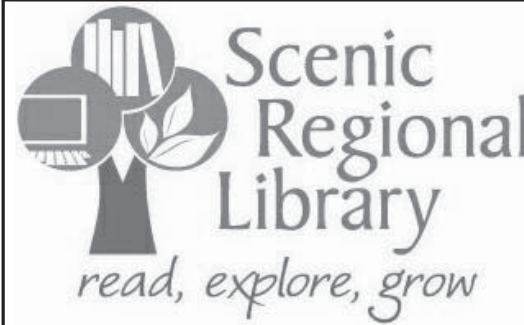
7 VENT THROUGH ROOF SCHEMATIC
P-801 N.T.S.



8 BACKFLOW PREVENTER/WATER SERVICE SCHEMATIC
P-801 N.T.S.



9 WATER SERVICE ENTRANCE SCHEMATIC
P-801 N.T.S.



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SHEET TITLE:
DETAILS - PLUMBING

P-801

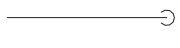
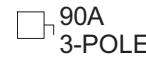
ELECTRICAL ABBREVIATIONS:

A.F.	AMP FUSE. USED IN CONJUNCTION WITH "A.S."
A.F.F.	ABOVE FINISHED FLOOR.
A.S.	AMP SWITCH USED IN CONJUNCTION WITH "A.F." OR "N.F."
C	IN STATEMENT IS ABBREVIATION FOR "CONDUIT."
CAFCI	COMBINATION ARC FAULT CIRCUIT INTERRUPTER BREAKER.
CKT	CIRCUIT.
CLG	INSTALL DEVICE EITHER AT OR 12" BELOW FINISHED CEILING.
E.C.	ELECTRICAL CONTRACTOR (DIVISION 16)
E.M.	EQUIPMENT MANUFACTURER.
ETR	EXISTING TO REMAIN.
EX	INDICATES DEVICE IS EXISTING.
F.B.O.	FURNISHED BY OTHERS
FS	FUSIBLE SWITCH.
GD	GARAGE DOOR INSTALLER.
GFI	GROUND FAULT INTERRUPT PROTECTION.
HP	HORSEPOWER
IG	ISOLATED / INSOLATED GROUND DEVICE.
LVC	LOW VOLTAGE CONTRACTOR
M.C.	MECHANICAL CONTRACTOR (DIVISION 15).
NF	NOT FUSED / NON-FUSIBLE SWITCH.
NIC	NOT IN CONTRACT.
OC	6" OVER (ABOVE) COUNTER LEVEL.
P.C.	PLUMBING CONTRACTOR (DIVISION 15).
REL	RELAY.
TV	TELEVISION
U.N.O.	UNLESS NOTED OTHERWISE.
UCR	UNDER COUNTER REFRIGERATOR.
UPS	UNINTERRUPTIBLE POWER SUPPLY.
VFD	VARIABLE FREQUENCY DRIVE.
W	WALL MOUNTED DEVICE (48" A.F.F.)
WP	WEATHERPROOF IN-USE COVER.

ELECTRICAL INSTALLATION NOTES:

- THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADAAG (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES).
- CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY [NOT] BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
- CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, AND IN FLOOR SLAB, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS, AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON BUILDING STRUCTURE.
- BOXES LOCATED ON OPPOSITE SIDE OF NON-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT / ENGINEER.
- CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL DETECTORS AND . OR SPEAKERS WITH LUMINARIES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.
- CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS AND REVIEW SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND / OR EQUIPMENT.
- WALL MOUNTED DEVICES (STROBES, PULL STATIONS, SPEAKERS, SENSORS, RECEPTACLES, LIGHT SWITCHES, ETC.) THAT ARE LOCATED WITHIN +/- 2' HORIZONTALLY OFF A LOWER DEVICE(S), ALL DEVICES SHALL BE ALIGNED VERTICALLY AND RACEWAYS ROUTED AS REQUIRED TO ALLOW THE DEVICES TO BE MOUNTED VERTICALLY.
- ELECTRICAL EQUIPMENT SHALL BE MOUNTED TO AVOID THE IMPEDANCE OF OPERATION AND / OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL GEAR ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
- TELECOMMUNICATIONS EQUIPMENT SHALL BE MOUNTED TO ALLOW ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF TELECOMMUNICATION DEVICES ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
- ALL FINAL ELECTRICAL CONNECTIONS TO MOTORS SHALL BE MADE WITH FLEXIBLE METAL CONDUIT. USE LIQUIDTIGHT CONDUIT AND FITTING WHERE SUBJECT TO MOISTURE. ROUTE GROUND WIRE FROM CIRCUIT GROUND TO MOTOR GROUND THROUGH FLEXIBLE CONDUIT. FLEXIBLE CONDUIT SHALL NOT EXCEED 6' IN LENGTH.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
- ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOOR SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOP.
- CONTRACTOR SHALL INSTALL AT EACH SERVICE ENTRANCE A PERMANENT DIRECTORY ACCORDING TO ARTICLE 230 OF THE NATIONAL ELECTRIC CODE.
- CONTRACTOR SHALL REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF ELECTRICAL WORK THAT IS OUTSIDE THE CONTRACT LIMITS OF CONSTRUCTION. CONTRACTOR SHALL REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR.
- UNLESS OTHERWISE STATED, THE MINIMUM CIRCUIT SHALL BE (2) #12 AND (1) #12 GND IN 3/4" CONDUIT. FOR IN DOORS OR IN 1" CONDUIT FOR EXTERIOR APPLICATIONS.

ELECTRICAL SYMBOLS:

	ALL CIRCUITS SHALL BE (2) #12's WITH (1) #12 GND MINIMUM U.N.O.
	CEILING-MOUNTED JUNCTION BOX (4"x4"x1-1/2" MIN.)
	WALL-MOUNTED JUNCTION BOX (4"x4"x1-1/2" MIN.)
	FLOORBOX FB# INDICATES FLOOR BOX REQUIREMENTS
	FB1 - FLOOR BOX POWER: (1) 5-20 DUPLEX RECEPTACLES.
	COMMUNICATIONS: (1) DATA OUTLETS (RJ-45).
	FB2 - FLOOR BOX POWER: (2) 5-20 DUPLEX RECEPTACLES.
	COMMUNICATIONS: (2) DATA OUTLETS (RJ-45).
	FB3 - FLOOR BOX POWER: (2) 5-20 DUPLEX RECEPTACLES.
	FB4 - FLOOR BOX POWER: (1) 208V/2P WHIP (2) #12, (1) #12 GND, 1" C WITH SHARED NEUTRAL.
	COMMUNICATIONS: PROVIDE (1) CAT6 DATA CONNECTION.
	PANELBOARD LOCATION ON PLANS. "LNL1" INDICATES DESIGNATION.
	FEEDER SCHEDULE NOTE. "A" INDICATES FEEDER IN SCHEDULE.
	MECHANICAL EQUIPMENT DESIGNATION. "CU-1" INDICATES ITEM IN MECHANICAL EQUIPMENT DATA SCHEDULE. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR ADDITION REQUIREMENTS.
	CIRCUIT CONDUIT ROUTING. "1" INDICATES ONE (1) GROUND CONDUCTOR, ONE (1) NEUTRAL CONDUCTOR AND TWO (2) PHASE CONDUCTORS RESPECTIVELY. "I" INDICATES ISOLATED GROUND CONDUCTOR. ALL CONDUCTORS SHALL BE #12 AWG MINIMUM U.N.O.
	CIRCUIT/CONDUIT "HOMERUN".
	CONDUIT ROUTED UNDER SLAB.
	CONDUIT ROUTED IN CEILING SPACE OF LEVEL BELOW.
	CONDUIT ROUTED EXPOSED AS SHOWN.
	CONDUIT TURNING UP.
	CONDUIT TURNING DOWN.
	GROUND CONNECTION OR LIGHTNING PROTECTION GROUND ROD LOCATION.
	MOTOR STARTING SWITCH. MOUNT AT 48" A.F.F. U.N.O. "M" INDICATES MOTOR. "P" INDICATES WITH PILOT LIGHT.
	MOTOR CONNECTION. "1" INDICATES HORSEPOWER.
	POWER POKE-THRU DEVICE. PROVIDE ADAPTER PLATE FOR FLEXIBLE CONDUIT CONNECTION.
	ELECTRICAL DISCONNECT, SUBTEXT DENOTES DISC. AMP RATING AND NUMBER OF CONDUCTORS.
	PUSHBUTTON.

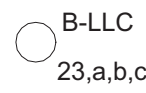
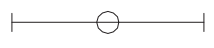
COMMUNICATION SYMBOLS:

	COMMUNICATION ROUGH-IN ONLY WALL BOX. PROVIDE MINIMUM 4" x 4" x 2-3/4" DEEP BOX MOUNTED 18" ABOVE FLOOR. UNLESS NOTED OTHERWISE PROVIDE SINGLE GANG MUD RING AND 3/4" CONDUIT WITH BUSHING ROUTED INTO AN ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING AND BLANK FACEPLATE.
	COMMUNICATION OUTLET IN RECESSED WALL BOX. PROVIDE MINIMUM 4" x 4" x 2-3/4" DEEP BOX MOUNTED 18" ABOVE FLOOR. UNLESS NOTED OTHERWISE PROVIDE SINGLE GANG MUD RING AND 3/4" CONDUIT WITH BUSHING ROUTED INTO AN ACCESSIBLE CEILING SPACE. PROVIDE CABLENG AND JACKS AS DENOTED (SEE BELOW), "HA" (TYPICAL) INDICATES CABLENG AND CONECTIVITY REQUIREMENTS.
	CABLING REQUIREMENTS
"#A" -	TELEPHONE CABLE (CAT 5e)
"WA" -	WALL PHONE, MOUNT 48" A.F.F. FACEPLATE SHALL HAVE BASE UNIT MOUNTING STUDS
"#D" -	DATA CABLE (CAT 6).
"WAP" -	WIRELESS ACCESS POINT. PROVIDE CAT6 WITH MALE RJ45
	NOTE: NUMBER (#) BEFORE CABLE TYPE INDICATES QUANTITY
"TV"-	

RECEPTACLE SYMBOLS:

	TYPE DESIGNATION:
	"SW"- NEMA 5-20R GROUND TYPE DUPLEX RECEPTACLE CIRCUIT THROUGH LOCAL OCCUPANCY SENSOR CONTACTOR LOCATED ABOVE CEILING. REFER TO LIGHTING PLAN FOR LOCATION OF CONTACTOR.
	"TVSS"-NEMA 5-20R SURGE SUPPRESSION TYPE DUPLEX RECEPTACLE.
	"MW"- MICROWAVE RECEPTACLE.
	"TV"- TV RECEPTACLE. MOUNT ADJACENT TO TV OUTLET. REFER TO COMMUNICATIONS FLOOR PLANS FOR TV OUTLET LOCATIONS.
	"EWC"- ELECTRIC WATER COOLER RECEPTACLE; CONCEALED BEHIND WATER COOLER ACCESS PLATE OR DIRECTLY BELOW AND CENTER ON EWC. CONTRACTOR SHALL VERIFY TYPE OF EWC TO BE INSTALLED.
	"H"- MOUNT OUTLET HORIZONTALLY.
	"G"- INDICATES A 5-20 RECEPTACLE (NON-GFCI) PROTECTED BY GFCI PROTECT CIRCUIT BREAKER. PROVIDE PERMANENT LABEL.
	"A"- INDICATES A 5-20 RECEPTACLE (NON-AFCI) PROTECTED BY AFCI PROTECT CIRCUIT BREAKER. PROVIDE PERMANENT LABEL.
	NEMA 5-20R GROUND TYPE DUPLEX RECEPTACLE. SUBSCRIPT INDICATES TYPE. MOUNT AT 18" A.F.F. UNLESS NOTED OTHERWISE.
	NEMA 5-20R G.F.I. DUPLEX RECEPTACLE. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
	NEMA 5-20R DOUBLE DUPLEX RECEPTACLE. SUBSCRIPT INDICATES TYPE. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE.
	NEMA 5-20R G.F.I. DOUBLE DUPLEX RECEPTACLE. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE.
	NEMA 5-20R GROUND TYPE SIMPLEX RECEPTACLE. SUBSCRIPT INDICATES TYPE. MOUNT AT 18" A.F.F. U.N.O.
	SPECIAL PURPOSE RECEPTACLE AS INDICATED ON DRAWINGS SUBSCRIPT INDICATES TYPE. MOUNT AT 18" A.F.F. U.N.O.
	CORD REEL RECEPTACLE. REFER TO DETAIL ON FLOOR PLAN.

LIGHTING SYMBOLS:

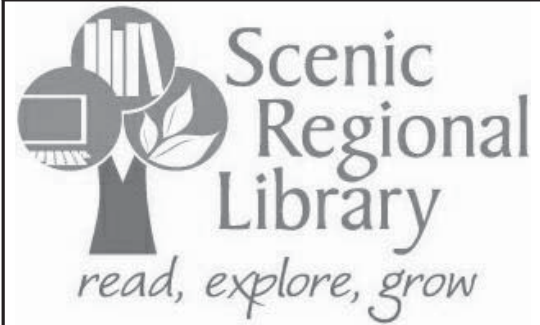
	"I" INDICATES FOR DEVICE TO BE WALL-MOUNTED
	ALL CIRCUITS SHALL BE (2) #12's WITH (1) #12 GND MINIMUM U.N.O.
	DOWNLIGHT.
	SYMBOL NOMENCLATURE:
"B"-	INDICATES FIXTURE TYPE.
"23"-	NUMBER DESIGNATES FIXTURE CIRCUIT.
"LLC"-	FIXTURE CONTROLLED BY LIGHTING CONTROL SYSTEM REFER TO LIGHTING CONTROL DIAGRAM FOR DEVICES AND CONTROLS.
"a,b,c"-	FIXTURE CONTROLLED BY LOCAL SWITCH REFER TO LIGHTING CONTROL SYMBOL FOR CONTROL METHOD
	TYPICAL OF ALL LIGHT FIXTURES. SEE LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION.
	WALL MOUNTED DOWNLIGHT.
	LIGHT FIXTURE. SIZE AS INDICATED.
	WALL MOUNTED LIGHT FIXTURE.
	STRIP LIGHT FIXTURE.
	EMERGENCY STRIP LIGHT FIXTURE.
	EMERGENCY DOWNLIGHT.
	CEILING MOUNTED EMERGENCY LIGHT FIXTURE.
	EXIT LIGHT FIXTURE. PROVIDE WITH ARROWS AS INDICATED.
	DECORATIVE POST TOP SITE LIGHTING FIXTURE.
	POLE MOUNTED SITE LIGHTING FIXTURE.
	CEILING FAN - REFER TO LIGHT FIXTURE SCHEDULE FOR TYPE.

OTHER:

	KNOCK BOX, PROVIDED BY OTHERS. PROVIDE MONITOR MODULE AS INDICATED ON PLANS.
	DETAIL REFERENCE. "4" INDICATES DETAIL # "E301" INDICATES SHEET. REFER TO DETAIL FOR ADDITIONAL REQUIREMENTS.
	SHEET KEYED NOTE "1" INDICATES NOTE #.

LIGHTING CONTROL SYMBOLS:

	WALL SWITCH. MOUNT AT 48" A.F.F. U.N.O. UPPER CASE SUBSCRIPT INDICATES TYPE LOWER CASE SUBSCRIPT INDICATES SWITCH LEG. SUBSCRIPTS 3, 4 INDICATE THREE WAY AND FOUR WAY RESPECTIVELY.
	TYPE DESIGNATION
	"DM"- DIMMER CONTROL.
	"LV"- INDICATES 0-10V AND TO PROVIDE POWER PACK FOR SWITCH AND OCCUPANCY SENSOR.
	"NL"- NIGHT LIGHT FIXTURE CIRCUIT TO PANELBOARD "MAIN" WITH NO LOCAL CONTROL.
	"OS"- DUAL (PIR AND ULTRASONIC) OCCUPANCY SENSOR WALL SWITCH.
	PHOTO CELL DEVICE.
	CONTACTOR.
	LIGHTING CONTROL POWER STATION. MOUNT ON 4" x 4" BOX ABOVE CEILING.
	LIGHTING CONTROL PANEL. INCLUDES SYSTEM CONTROLLER. CONTAINS RELAYS.
	LOCAL LIGHTING CONTROLLER. REFER TO DETAIL 1/E8.0.0
	NETWORK INTERFACE
	OCCUPANCY SENSOR, CEILING MOUNTED. WIDE ANGLE LENS. MOUNT AT 96" A.F.F. SUBSCRIPT DENOTES SENSOR TYPE. "IR"- PASSIVE INFRARED TECHNOLOGY. "DT"- DUAL (PIR + ULTRASONIC) TECHNOLOGY.
	OCCUPANCY SENSOR RELAY PACK 20A CONTACTOR MOUNTED ON J-BOX ABOVE ACCESSIBLE CEILING FOR SWITCHING LOCAL RECEPTACLE. REFER TO POWER PLANS FOR RECEPTACLE LOCATIONS.



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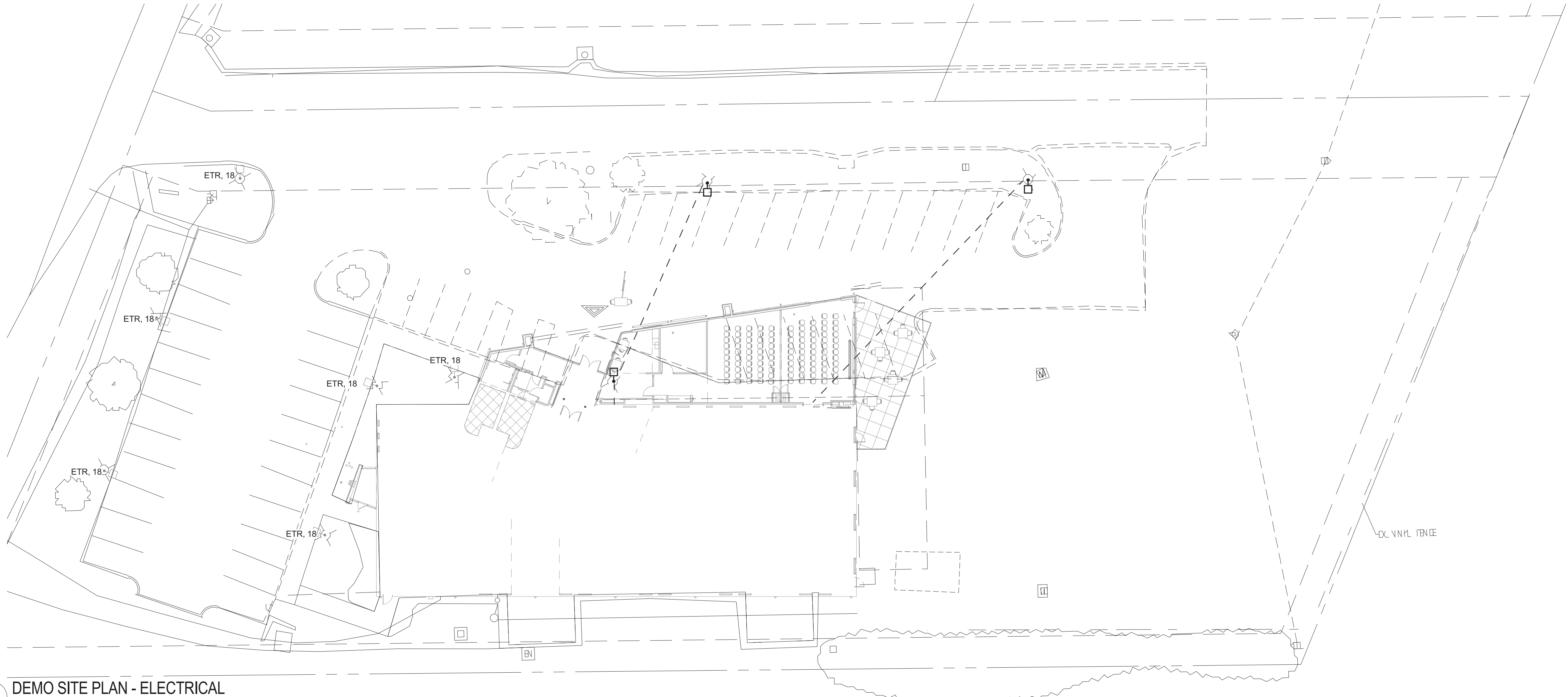
DRAWN BY: **TLK**

PROJECT NUMBER: **16-1161.06**

SHEET TITLE:
**LEGEND, SYMBOLS, NOTES, &
ABBREVIATIONS - ELECTRICAL**

E-001

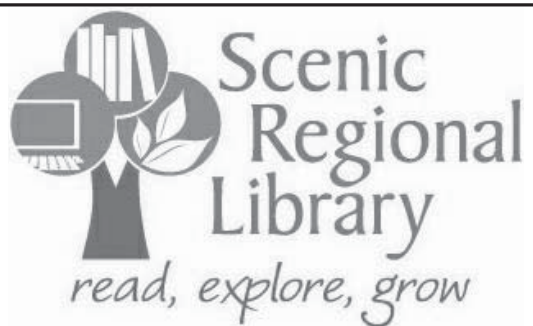
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1 DEMO SITE PLAN - ELECTRICAL
ED-100 1" = 20'-0"

GENERAL NOTES

1 THE DEVICES SHOWN AS DARK DASHED SHALL BE DEMO. REMOVE ALL CONDUIT AND CONDUCTORS BACK TO PANEL.



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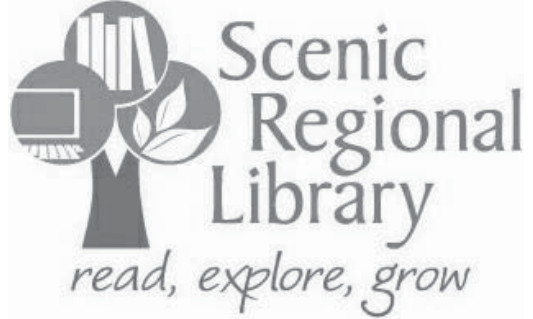
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SHEET TITLE:
DEMO SITE PLAN - ELECTRICAL

ED-100

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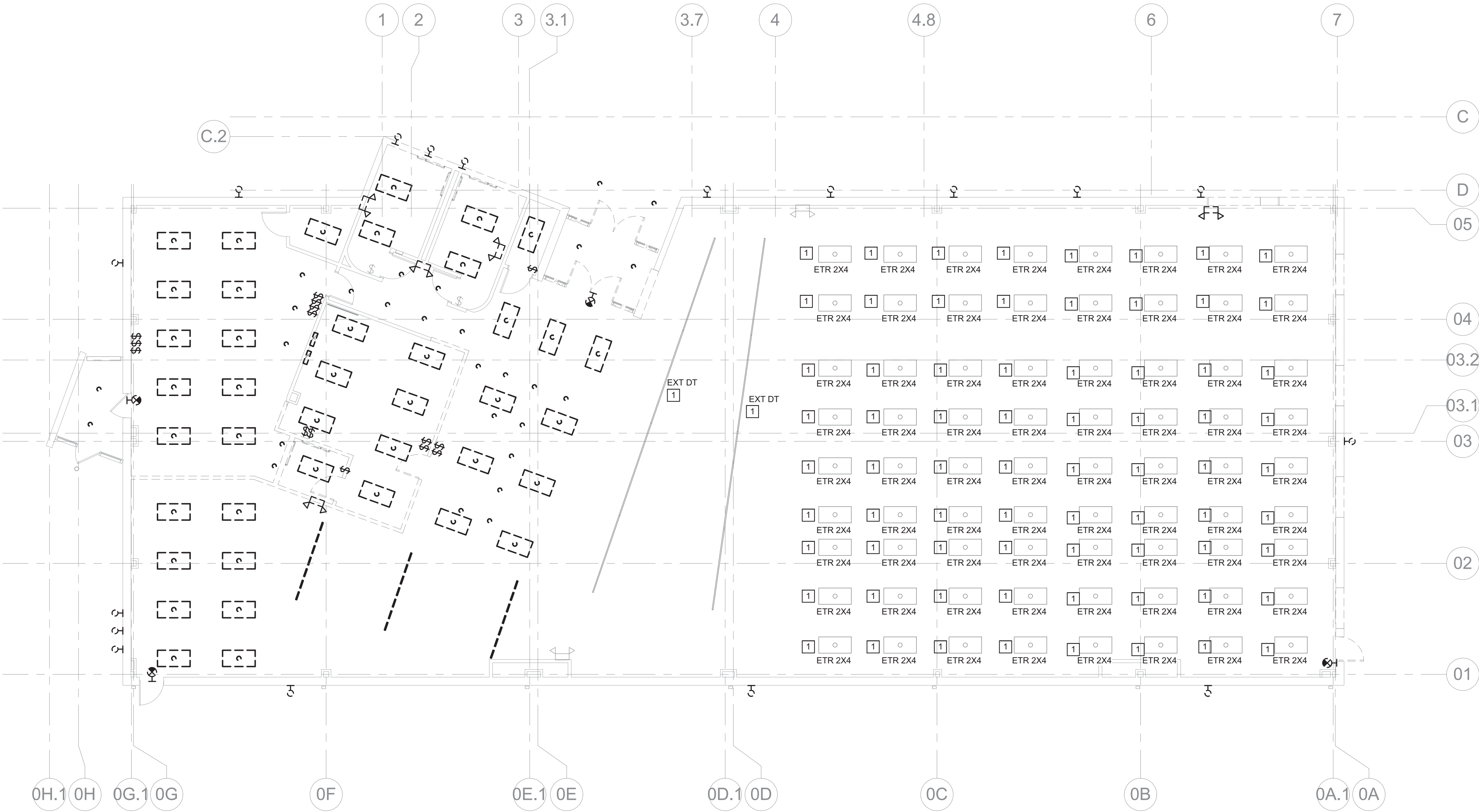
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DRAWN BY: **TLK**
PROJECT NUMBER: **16-1161.06**

SHEET TITLE:
**DEMO FLOOR PLAN - FIRST
FLOOR - ELECTRICAL LIGHTING**
ED-201



1 DEMO FLOOR PLAN - FIRST FLOOR - ELECTRICAL LIGHTING
ED-201 1/8" = 1'-0"

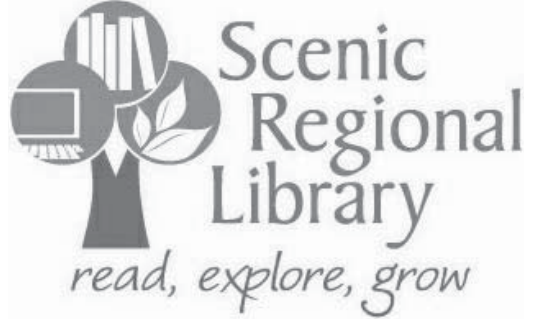
GENERAL NOTES

1 THE DEVICES SHOWN AS DARK DASHED SHALL BE DEMO. REMOVE ALL CONDUIT AND CONDUCTORS BACK TO PANEL.

KEYED NOTES

1 FIXTURES SHALL REMAIN UNDER BASE BID. THE FIXTURES SHALL BE DEMO UNDER ALTERNATE BID.

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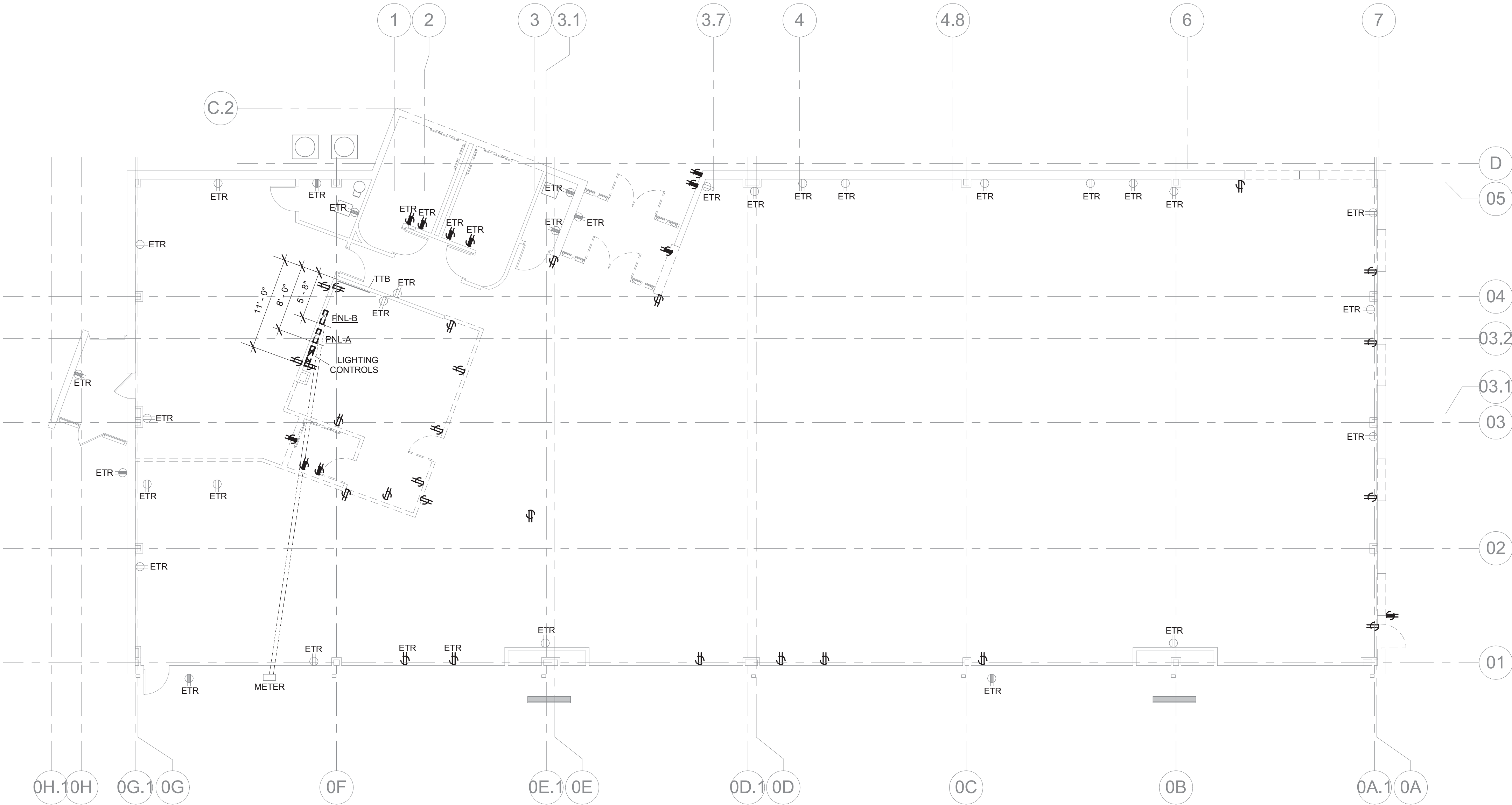
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DRAWN BY: **TLK**

PROJECT NUMBER: **16-1161.06**

SHEET TITLE:
**DEMO FLOOR PLAN - FIRST
FLOOR - ELECTRICAL POWER**

ED-301

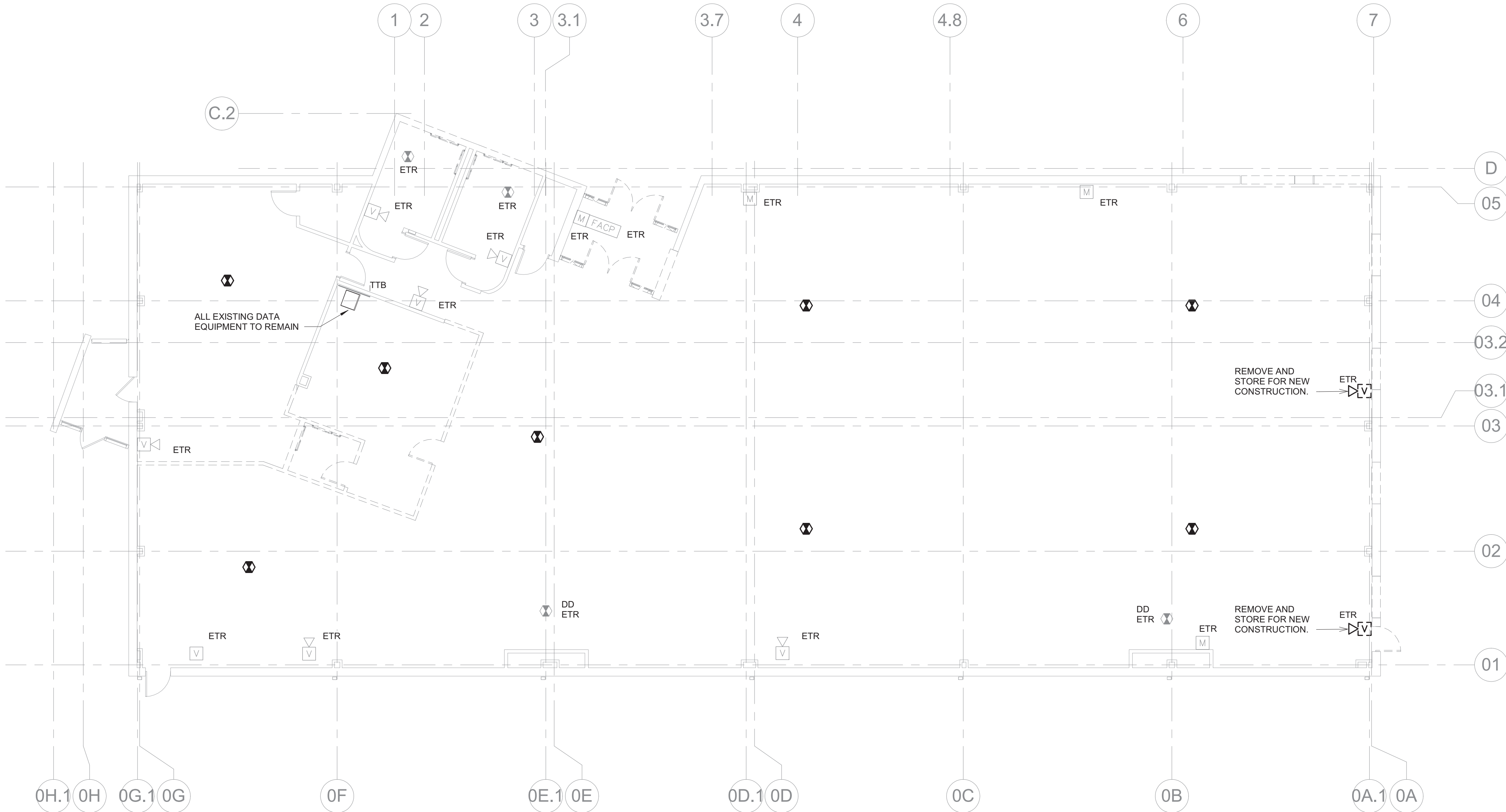


1 DEMO FLOOR PLAN - FIRST FLOOR - ELECTRICAL POWER
ED-301 1/8" = 1'-0"

GENERAL NOTES

- 1 THE DEVICES SHOWN AS DARK DASHED SHALL BE DEMO. REMOVE ALL CONDUIT AND CONDUCTORS BACK TO PANEL.

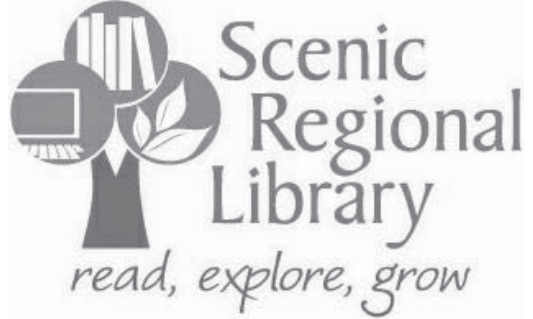
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GENERAL NOTES

1 THE DEVICES SHOWN AS DARK DASHED SHALL BE DEMO. REMOVE ALL CONDUIT AND CONDUCTORS BACK TO PANEL.

1 DEMO FLOOR PLAN - FIRST FLOOR - ELECTRICAL DATA & FIRE ALARM
ED-401 1/8" = 1'-0"



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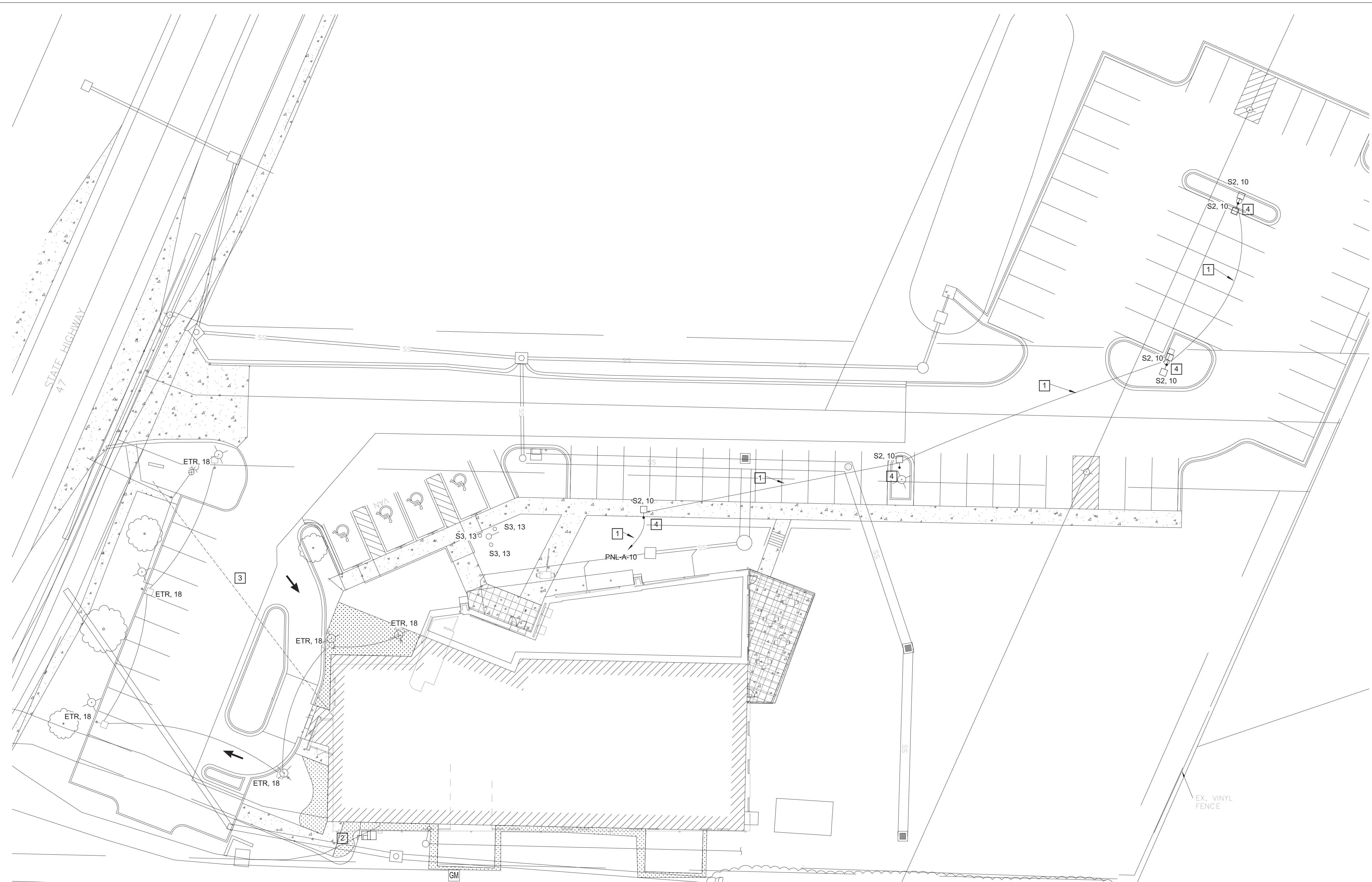
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TODD L. KUNO, PE MO. LICENSE NO. 2015017018 BRIC MO CERTIFICATE OF AUTHORITY 2002028690		
No.	Date	Description
	04/14/17	ISSUED FOR BID

DRAWN BY: **TLK**

PROJECT NUMBER: **16-1161.06**

SHEET TITLE:
**DEMO FLOOR PLAN - FIRST
FLOOR - ELECTRICAL DATA &
FIRE ALARM**
ED-401



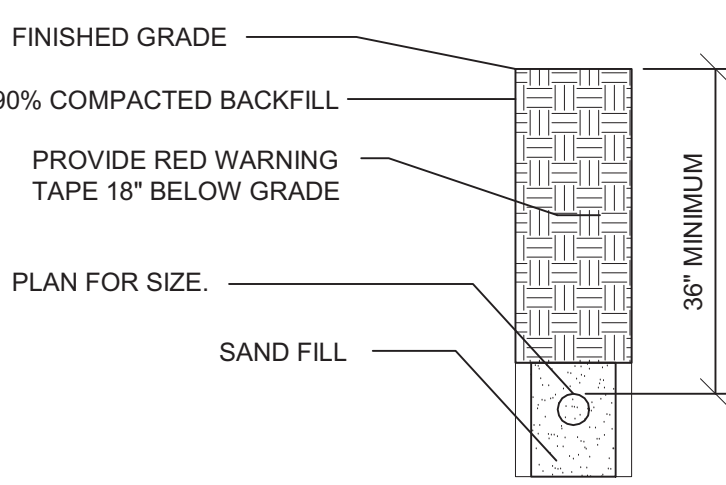
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KEYED NOTES

- 1 PROVIDE (2) #10, (1) #10 GND, IN 1" CONDUIT POWER TO SITE LIGHTING FIXTURES.
- 2 UNDERGROUND DUCTS FOR COMMUNICATIONS SERVICES. TWO (2) 2" PVC. SEE SHEET E-401 FOR CONTINUATION INTO BUILDING. COORDINATE WITH SERVICE PROVIDERS AND ROUTE TO POLE OF MANHOLE AS REQUIRED.
- 3 ELECTRICAL CONTRACTOR SHALL PROVIDE 1" CONDUIT FROM BUILDING ELECTRICAL ROOM TO THE LOCATION INDICATED. PROVIDE PULL STRING, CAP AND LABEL CONDUIT ON EACH END. CONTRACTOR SHALL PROVIDE EXACT LOCATION OF END OF CONDUIT ON AS BUILDS.
- 4 PROVIDE 20' RTS POLE, AND POLE BASE. SEE DETAIL ON THIS SHEET FOR GROUNDING, WIRING, AND BASE DETAILS.

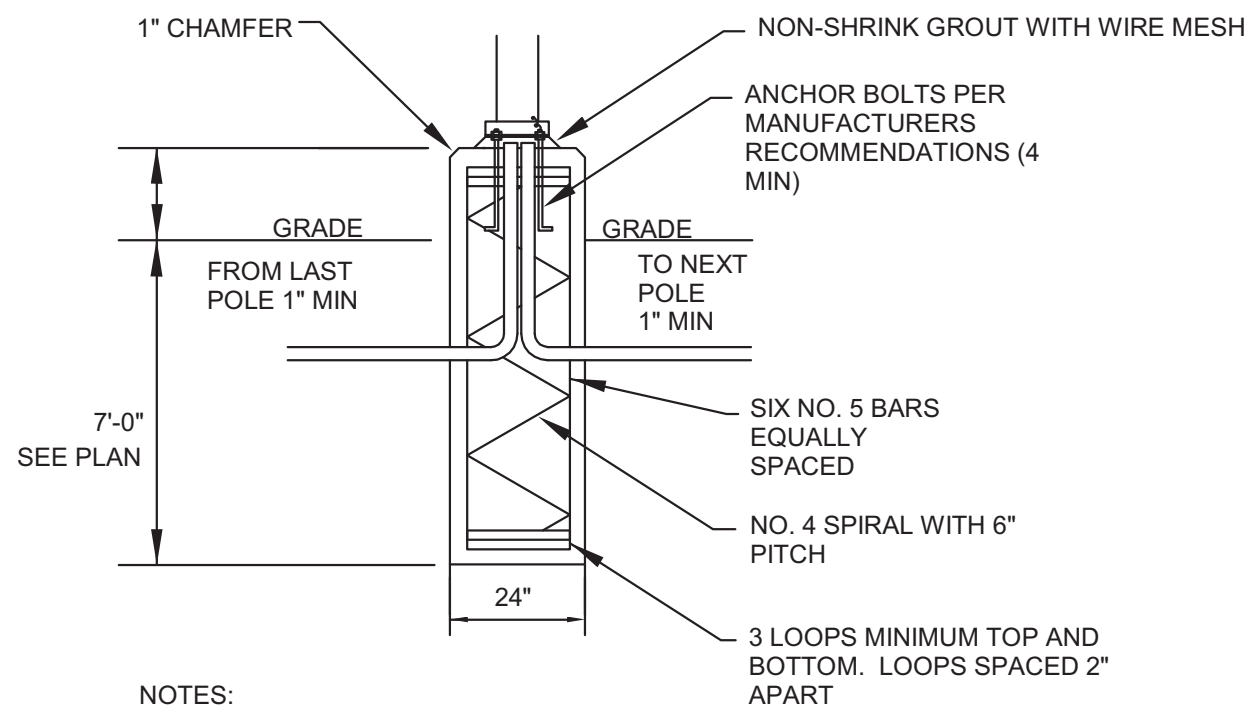
GENERAL NOTES

- 1 PROVIDE LIGHTING CONTACTOR FOR BUILDING MOUNTED LIGHTS AND POLE SITE FIXTURES SEE DETAIL ON THIS SHEET FOR CONTACTOR. CONTACTOR SHALL BE LOCATED IN ELECTRICAL ROOM NEAR PANEL.
- 2 SEE LIGHTING PLAN FOR BUILDING MOUNTED FIXTURES.
- 3 ELECTRICAL CONTRACTOR SHALL CORRIDNATE SITE LIGHTING FIXTURES PRIOR TO INSTALLING BASE WITH CIVIL CONTRACTOR.
- 4 FLAG POLE FLOOD LIGHTS (S3 FIXTURE) SHALL BE EVENLY SPACED AROUND THE FLAG POLE APPROXIMATELY 4' AWAY FROM THE FLAG POLE.



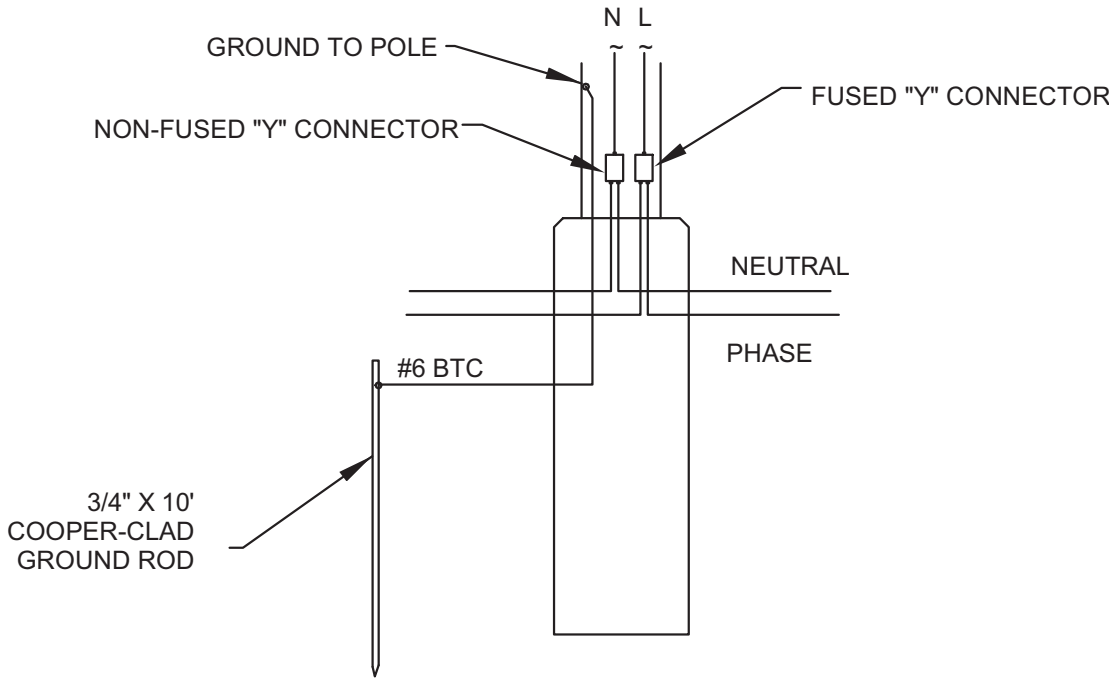
5 TRENCHING DETAIL
E-100 N.T.S.

1 SITE PLAN - ELECTRICAL
E-100 1" = 20'-0"



- NOTES:
- 1. ALL CONCRETE ABOVE GRADE SHALL BE HAND RUBBED TO A SMOOTH FINISH.
 - 2. CONCRETE POLE BASE BY E.C. CONCRETE TO HAVE 3500 PSI MIN COMPRESSIVE STRENGTH AT 28 DAYS AND USE ASTM A615 GRADE 60 REINFORCING STEEL.

2 SITE LIGHTING POLE BASE DETAIL
E-100 3/8" = 1'-0"

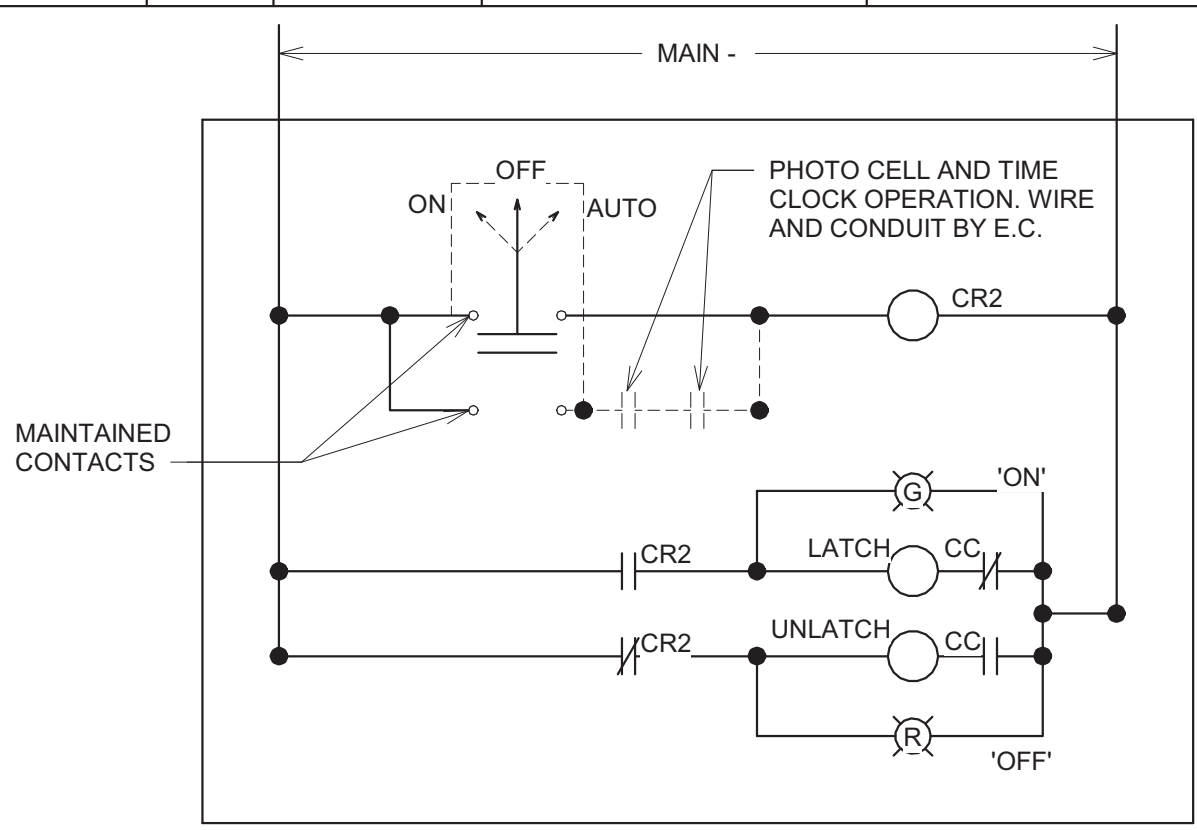


- NOTES:
- 1. FUSED "Y" CONNECTOR TO BE FUSED AT 10 AMPS AND RATED FOR 600 VOLTS.
 - 2. GROUND POLE AND NEUTRAL TO GROUND ROD USING CONDUCTOR INDICATED.

3 SITE LIGHTING POLE WIRING DETAIL
E-100 3/8" = 1'-0"

SITE LIGHTING CONTACTOR SCHEDULE

CONTACTOR NAME	POLES / AMPS	CIRCUITS	REMARKS	CONTROL CIRCUIT
LC-A	3/30	MAIN - 10/13/18	BUILDING LIGHTS EXTERIOR	PC-ON/ TC-OFF/ SWITCH - OVERRIDE ON



ALL WIRING SHALL BE #10 U.N.O. MECHANICALLY HELD LIGHTING CONTACTOR

4 SITE LIGHTING CONTACTOR
E-100 N.T.S.

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SHEET TITLE:
SITE PLAN - ELECTRICAL

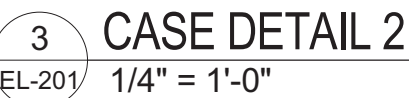
E-100



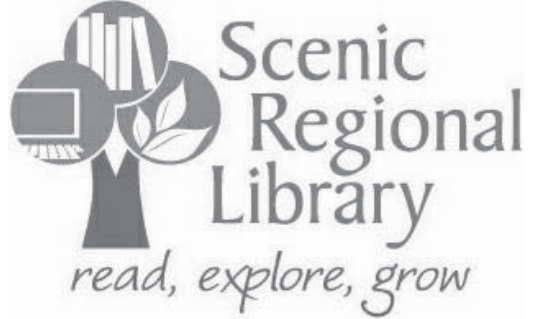
1 FLOOR PLAN SCHEDULE - FIRST FLOOR - ELECTRICAL LIGHTING
EL-201 1/8" = 1'-0"

- 1 ALL LIGHTING SHALL BE CONTROLLED BY A TIME CLOCK UNLESS NOTED TO BE CONTROLLED BY AN OCCUPANCY SENSOR. REFER TO LEGEND SHEET FOR PROVIDED DETAILS, A TIME CLOCK OVERRIDE SWITCH SHALL BE PROVIDED IN THE AREA.
- 2 ALL LIGHTING IN STORAGE, OFFICES, STUDIES, MECHANICAL/ELECTRICAL, MEETING ROOM AND BATHROOMS ARE CONTROLLED BY OCCUPANCY OR MOTION SENSORS.
- 3 EGRESS LIGHTING WILL HAVE DEDICATED POWER. WHEN NO POWER IS DETECTED, EGRESS LIGHTING WILL TURN ON.
- 4 EGRESS LIGHTING WILL HAVE DEDICATED POWER. WHEN NO POWER IS DETECTED, EGRESS LIGHTING WILL TURN ON.

- 1 ALL SITE AND BUILDING LIGHTING WILL BE CONTROLLED BY A PHOTO CELL LOCATED ON THE EXTERIOR EAST AND WEST WALLS OF THE BUILDING. PROVIDE WIRE AND CONDUIT TO THE PHOTO CELL. IN SHOWN LOCATION.
- 2 PROVIDE LINE VOLTAGE LIGHT FIXTURES IN DISPLAY CASE. SEE DETAIL ON THIS SHEET FOR DISPLAY CASE LIGHTING. PROVIDE LED DRIVER ABOVE THE CEILING OR AS HIGH AS POSSIBLE. DISPLAY CASE LIGHTS SHALL BE CONTROLLED BY A DIMMING CONTROLLER AND LOW VOLTAGE DIMMING SWITCH LOCATED AT THE SERVICE DESK. LABEL SWITCH AS CASE LIGHTS.
- 3 EXHAUST FAN IN THE RESTROOM SHALL BE CONTROLLED BY THE LIGHTING CONTROL IN THE SPACE.
- 4 PROVIDE UNDER CABINET LIGHTING. PROVIDE LINE VOLTAGE SWITCH TO CONTROL THE LIGHT FIXTURE. UNDER CABINET LIGHT FIXTURE DRIVER SHALL BE LOCATED IN THE BACK CORNER UNDER THE CABINET.

[illegible][illegible]

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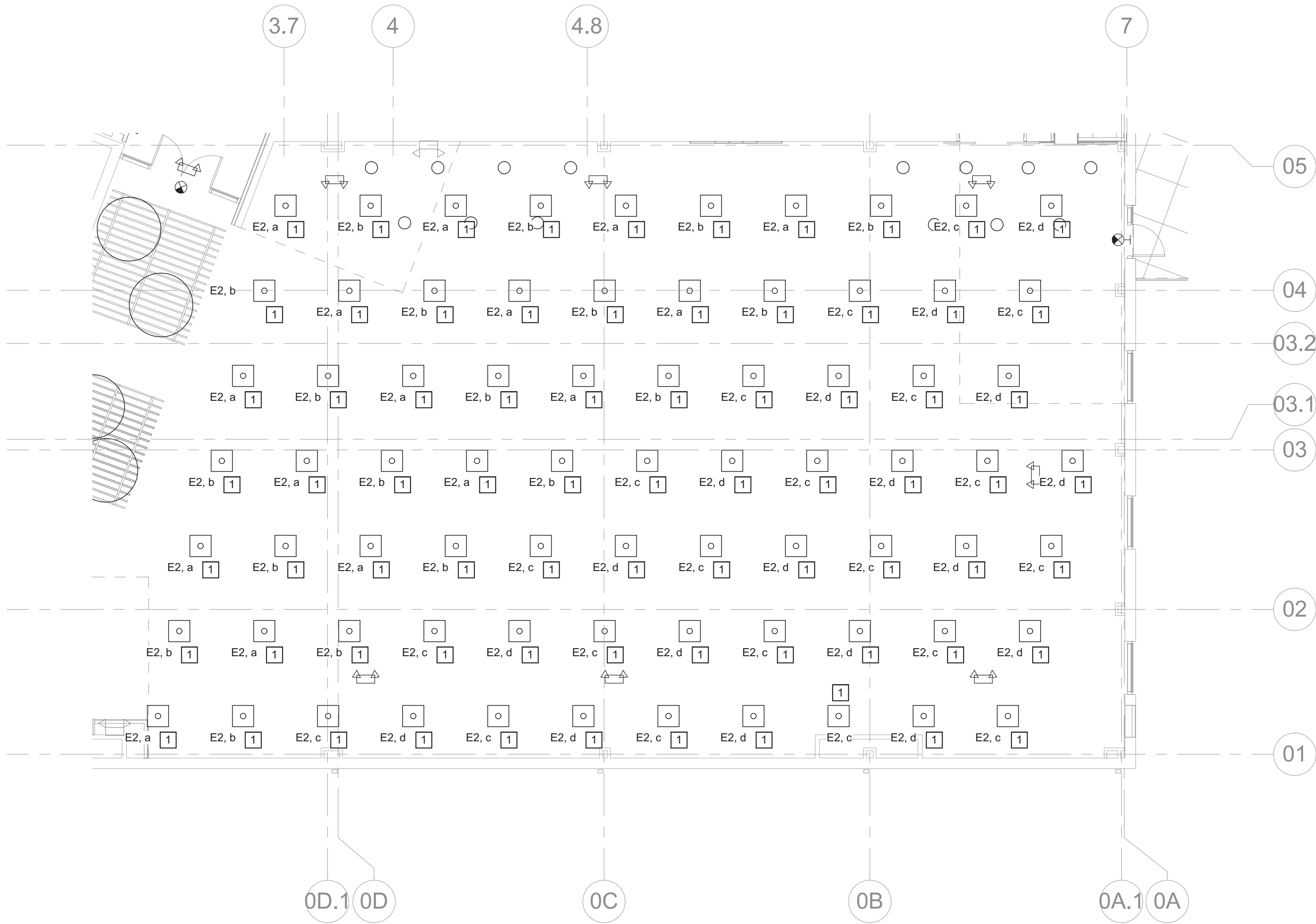
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SHEET TITLE:
LIGHTING ALTERNATE

EL-202

#	KEYED NOTES
1	THE E2 LIGHT FIXTURES SHOWN ON THIS PLAN SHALL BE PROVIDED UNDER ALTERNATE BID. THE FIXTURE SHALL USE THE EXISTING LIGHT FIXTURE CIRCUITS IN THE SPACE.



1 FLOOR PLAN SCHEDULE - FIRST FLOOR - ELECTRICAL LIGHTING ALT BID
EL-202 1/8" = 1'-0"



E-401

ROOM SCHEDULE	
Number	Name
600	VESTIBULE
601	CORRIDOR
602	CAFE/VENDING
603	STORAGE
604	COATS
605	MEETING ROOM A
606	MEETING ROOM B
607	CHILDRENS AREA
608	TEEN AREA
609	CIRCULATION
610	ADULTS AREA
611	CIRCULATION
612	STUDY
613	STUDY
614	OFFICE
616	WORK ROOM
617	CORRIDOR
618	JANITOR'S CLOSET
619	ELECT.
620	CORRIDOR
621	WOMENS
622	MENS
623	MECH / ELEC
624	WORK AREA
625	STORAGE
626	BREAK ROOM
627	ELEC.
628	BOOK DROP
629	CORRIDOR



MECHANICAL EQUIPMENT ELECTRICAL DATA SCHEDULE																										
PLAN MARK		DISCRIPTION / LOCATION	HORSEPOWER	APPARENT LOAD	VOLTAGE	PHASE	NEMA ENCL. TYPE	STARTER					DISCONNECT					CONTROL DEVICE		PANEL	FEEDER SIZE / RACEWAY	REMARKS				
								FURNISHED BY	INSTALLED BY	TYPE	NEMA TYPE	AUXILIARY CONTACTS	LOCATION	FURNISHED BY	INSTALLED BY	TYPE	SWITCH SIZE	FUSE SIZE	LOCATION				FURNISHED BY	WIRE BY		
RTU	1	ROOF TOP UNIT		14508 VA	208 V	3	3R	EM	EM	-	-	-	IN UNIT	EM	EM	-	60	-	IN UNIT	MC	MC	PNL-C	(3)#4,(1)#10G,1" C			

EC - ELECTRICAL CONTRACTOR
EM - EQUIPMENT MANUFACTURER
FVNR - FULL VOLTAGE NON REVERSING
MC - MECHANICAL CONTRACTOR
NF - NON FUSED
NI - NON INTERRUPTING
NO/NC - NORMALLY OPEN/NORMALLY CLOSED
TS - TOGGLE SWITCH

PANEL:	PNL-A	OC DEVICE TYPE: BREAKER	ENCLOSURE: NEMA 1	MAINS: 225 MCB		CONTINUOUS: 225 A							
LOCATION:	RECEPTION 123	DEVICE FAMILY: BOLT ON	MOUNTING: SURFACE	WIRING: 3 PHASE 4 WIRE	BUS SC RATING: EXISTING	Fault Current: 26700A							
FED FROM:			VOLTAGE: 120/208 Vye		FAULT CURRENT: 25672 AIC CALC								
CKT	DESCRIPTION	NOTES	OC	P	A	B	C	P	OC	NOTES	DESCRIPTION	CKT	
1	LTS SUSP. CIRCULAR CIRCULATION...		20 A	1	831 VA	8160 VA		3	100 A	furance		2	
3	LTS PENDANT NORTH WALL		20 A	1			840 VA	8160 VA	--	--	--	4	
5	LTS ADMIN SPACE		20 A	1					--	--	--	6	
7	LTS MEETING ROOM 118		20 A	1	125 VA	0 VA			1	20 A	LTS MEETING ROOM 118	8	
9	REC CIRCULATION 100 FLOOR BOXES		20 A	1			360 VA	451 VA	1	20 A	LTS	10	
11	LTS Restroom 111, 110, 100		20 A	1					1	20 A	REC CIRCULATION 100 FLOOR BOXES	12	
13	LTS BUILDING		20 A	1	209 VA	180 VA			1	20 A	REC CIRCULATION 100 FLOOR BOXES/ TV	14	
15	PML-C	NEW BREAKER	100 A	3			8196 VA	720 VA	1	20 A	REC BATHROOM/ ST	16	
17	--		--	--					1	20 A	LTS SITE LIGHTING	18	
19	--		--	--	6936 VA	540 VA			1	20 A	east wall outlets	20	
21	SPARE		20 A	1			0 VA	0 VA	1	20 A	used	22	
23	SPARE		20 A	1				0 VA	0 VA	1	20 A	used	24
25	SPARE		20 A	1	0 VA	720 VA			1	20 A	REC BATHROOM 110 AND 111	26	
27	SPARE		20 A	1			0 VA	0 VA	1	20 A	alarm	28	
29	indoor and outdoor ltng controls		20 A	1					1	20 A	used	30	
31	EMERGENCY EGRESS LIGHTING		20 A	1	75 VA	0 VA		0 VA	0 VA	1	20 A	space used	32
33	used		20 A	1			0 VA	0 VA	--	--	--	34	
35	north wall computers		20 A	1					1	20 A	REC ST 112/ VESTIBULE	36	
37	emergency above micro print		20 A	1	0 VA	0 VA			1	20 A	pump	38	
39	used		20 A	1			0 VA	0 VA	1	20 A	used	40	
41	used		20 A	1					1	20 A	used	42	
					17776 VA 148 A	18727 VA 157 A	19983 VA 168 A						
TOTAL CONNECTED LOAD:			56486 VA						TOTAL CONNECTED AMPS:	157 A			
TOTAL DEMAND LOAD:			56266 VA						TOTAL DEMAND AMPS:	156 A			

PANEL:	PNL-B	OC DEVICE TYPE: BREAKER	ENCLOSURE: NEMA 1	MAINS: 225 AMP	CONTINUOUS: 225 A
LOCATION:	RECEPTION 123	DEVICE FAMILY: BOLT ON	MOUNTING:	WIRING: 3 PHASE 4 WIRE	BUS SC RATING: EXISTING
FED FROM:			VOLTAGE: 120/208 Wye		FAULT CURRENT: 25672 AIC CALC

CKT	DESCRIPTION	NOTES	OC	P	A	B	C	P	OC	NOTES	DESCRIPTION	CKT
1	furnace		100 A	3	8160 VA	0 VA		3	30 A		a-c	2
3	--		--	--		8160 VA	0 VA	--	--		--	4
5	--		--	--			8160 VA	0 VA	--	--	--	6
7	septic		20 A	2	0 VA	0 VA		3	30 A		a-c	8
9	--		--	--		0 VA	0 VA	--	--		--	10
11	REC CIRCULATION 100 FLOOR BOXES		20 A	1			360 VA	0 VA	--	--	--	12
13	REC STUDY 127		20 A	1	540 VA	0 VA		1	20 A		used	14
15	REC STUDY 126		20 A	1		720 VA	360 VA	2	20 A		REC CIRCULATION 100 FLOOR BOXES	16
17	REC BREAK ROOM 104 REFRIGERATOR		20 A	1			180 VA	360 VA	--	--	--	18
19	REC BREAK ROOM 109		20 A	1	540 VA	720 VA		1	20 A		REC OFFICE 105	20
21	parking		30 A	1		0 VA	360 VA	1	20 A		REC WORK ROOM 106	22
23	used		20 A	1			0 VA	360 VA	1	20 A	REC	24
25	used		20 A	1	0 VA	0 VA		1	20 A		used	26
27	south wall computers		20 A	1		540 VA	0 VA	1	20 A		used	28
29	used		20 A	1			0 VA	0 VA	1	20 A	used	30
31	used		20 A	1	0 VA	0 VA		1	20 A		fax and counter copier	32
33	used		20 A	1		0 VA	0 VA	1	20 A		used	34
35	used		20 A	1			0 VA	720 VA	1	20 A	counter and island computer	36
37	used		20 A	1	0 VA	540 VA		1	20 A		REC ST 108	38
39	used		20 A	1		0 VA	0 VA	1	20 A		used	40
41	telephone systems		20 A	1			0 VA	720 VA	1	20 A	REC ELECTRICAL ROOM	42
					10500 VA 88 A	10140 VA 85 A	10860 VA 91 A					
TOTAL CONNECTED LOAD:			31500 VA						TOTAL CONNECTED AMPS: 87 A			
TOTAL DEMAND LOAD:			31500 VA						TOTAL DEMAND AMPS: 87 A			

PANEL: PNL-C		OC DEVICE TYPE: BREAKER		ENCLOSURE: NEMA 1		MAINS: MLO		CONTINUOUS: 100 A	
LOCATION: ST. 131		DEVICE FAMILY: BOLT ON		MOUNTING: SURFACE		WIRING: 3 PHASE 4 WIRE		BUS SC RATING: NEXT ABOVE CALC	
FED FROM: PNL-A				VOLTAGE: 120/208 Vye				FAULT CURRENT: 11680 AIC CALC	

CKT	DESCRIPTION	NOTES	OC	P	A	B	C	P	OC	NOTES	DESCRIPTION	CKT	
1	REC CAFE FLOOR BOXES		20 A	1	540 VA	540 VA			1	20 A	REC CAFE OVER COUNTER	2	
3	REC MEETING ROOM 118 OVER COUNTER		20 A	1			720 VA	720 VA	1	20 A	REC MEETING ROOM 118	4	
5	REC MEETING ROOM 118		20 A	1					1	20 A	REC MEETING ROOM 118 FLOOR BOXES	6	
7	REC MEETING ROOM 118 FLOOR BOXES		20 A	1	360 VA	720 VA			1	20 A	REC BUILDING POWER	8	
9	REC BUILDING POWER		20 A	1			720 VA	180 VA	1	20 A	REC RECEPTION 123	10	
11	RTU-1		50 A	3					1	20 A	ADA DOOR POWER	12	
13	--		--	--	4836 VA	1200 VA			1	20 A	ADA DOOR POWER	14	
15	--		--	--			4836 VA	0 VA	1	20 A	SPARE	16	
17	SPARE		20 A	1				0 VA	0 VA	1	20 A	SPARE	18
19	SPARE		20 A	1	0 VA	0 VA			1	20 A	SPARE	20	
21	SPARE		20 A	1			0 VA	0 VA	1	20 A	SPARE	22	
23	SPARE		20 A	1					1	20 A	SPARE	24	
25	SPARE		20 A	1	0 VA	0 VA			1	20 A	SPARE	26	
27	SPARE		20 A	1			0 VA	0 VA	1	20 A	SPARE	28	
29	SPARE		20 A	1				0 VA	0 VA	1	20 A	SPARE	30
31	SPARE		20 A	1	0 VA	0 VA			1	20 A	SPARE	32	
33	SPARE		20 A	1			0 VA	0 VA	1	20 A	SPARE	34	
35	SPARE		20 A	1				0 VA	0 VA	1	20 A	SPARE	36
37	SPARE		20 A	1	0 VA	0 VA			1	20 A	SPARE	38	
39	SPARE		20 A	1			0 VA	0 VA	1	20 A	SPARE	40	
41	SPARE		20 A	1					1	20 A	SPARE	42	
					8196 VA 69 A	7176 VA 60 A	6936 VA 58 A						
TOTAL CONNECTED LOAD:		22308 VA					TOTAL CONNECTED AMPS:		62 A				
TOTAL DEMAND LOAD:		22308 VA					TOTAL DEMAND AMPS:		62 A				

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