

# 2018 Renovations & Addition Clarksville Branch Library

1312 Eastern Boulevard  
Clarksville, Indiana 47129



## Jeffersonville Township Public Library

Library Director  
LIBBY POLLARD

Branch Manager  
BECKY KELIEN

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Clarksville Branch Library / 2018 Renovations & Addition / #201723.02

KovertHawkins  
architects





**Provisions for Rated Walls:**

- FIRE WALLS:** (IBC - SECTION 706) NONE REQUIRED.
- FIRE BARRIERS:** (IBC - SECTION 707) REQUIRED SEE PLAN
- FIRE PARTITIONS:** (IBC - SECTION 708) CORRIDORS ARE REQUIRED TO BE RATED. (IBC - 708.1.4 AND 1018.1)
- SMOKE BARRIERS:** (IBC - SECTION 709) NONE REQUIRED.
- SMOKE PARTITIONS:** (IBC - SECTION 710) NONE REQUIRED.
- SHAFT ENCLOSURES:** (IBC - SECTION 713) NONE REQUIRED
- INCIDENTAL USE SEPARATIONS:** (IBC - SECTION 509) NONE REQUIRED.
- VERTICAL EXIT ENCLOSURES:** (IBC - SECTION 1022) NONE REQUIRED.

**Provisions for Use and Occupancy:**

- THE BUILDING IS CLASSIFIED AS AN "A-3" SINGLE OCCUPANCY. THE AGGREGATE ACCESSORY OCCUPANCIES DO NOT OCCUPY MORE THAN 10 PERCENT OF THE AREA OF THE STORY IN WHICH THEY ARE LOCATED AND DO NOT EXCEED THE TABULAR VALUES IN TABLE 503. (IBC - 508.2.1)

**Provisions for Height and Area:**

- THE TABULATED AREA = "A-3" = 9,500 S.F. (IBC - TABLE 503)
- THE BUILDING IS PERMITTED TO BE THE FOLLOWING: (IBC - TABLE 503)

**Provisions for Fire Protection:**

- THE CLARKSVILLE BRANCH LIBRARY HAS AN EXISTING FIRE ALARM SYSTEM.
- NO SPRINKLER SYSTEM IS REQUIRED.

**Code Summary**

BUILDING OCCUPANCY	A-3 Occupancy	Code References
USE OCCUPANCY:	A-3	IBC, 303.4
CONSTRUCTION TYPE:	II - B	IBC, 602
AUTOMATIC SPRINKLER:	NONE	IBC, 903.2.1.3
MAX. ALLOWABLE TRAVEL DISTANCE	200'	(42' ACTUAL) IBC, TABLE 1016.2
COMMON PATH OF EGRESS DISTANCE (MAX)	75'	(34' ACTUAL) IBC, 1014.3
MAX DEAD END CORRIDOR LENGTH	NO DEAD END CORRIDORS	IBC, 1018.4
TABULAR BUILDING AREA PER STORY: ALLOWABLE BUILDING AREA PER STORY	9,500 S.F. 16, 625 S.F.	IBC, 503
AREA MODIFICATION CALCULATIONS A <sub>a</sub> = (A <sub>t</sub> + [A <sub>t</sub> x I]) + [A <sub>t</sub> x I <sub>f</sub> ]	A <sub>a</sub> = (9500 + [9500 x .75]) + [9500 x 0] A <sub>a</sub> = (9500 + [7125]) + [0] A <sub>a</sub> = 16,625 ALLOWABLE BUILDING AREA PER STORY (S.F.)	IBC EQUATION, 5-1
I <sub>f</sub> = [1 - 0.25] x 1	I <sub>f</sub> = [1 - 0.25] x 1 I <sub>f</sub> = .75 AREA INCREASE FACTOR	IBC EQUATION, 5-2
MAX. ALLOWABLE TRAVEL DISTANCE	LESS THAN 300	IBC, TABLE 903.2.1.3
FIRE AREA "A": FIRE AREA "B":	1,723 S.F. (MAX ALLOWABLE 12,000 S.F.) 10,995 S.F. (MAX ALLOWABLE 12,000 S.F.)	IBC, 903.2.1.3
EXISTING BUILDING (SQUARE FEET): NEW ADDITION (SQUARE FEET):	10,283 S.F. 2,435 S.F.	
TOTAL COMBINED AREA:	12,718 S.F.	
BUILDING HEIGHT:	1 STORY	IBC, TABLE 503

**Applicable Codes (Indiana) - 2017**

**Life Safety**

GENERAL ADMINISTRATIVE RULES (675 IAC 12)  
(EFFECTIVE DATE: 2001 WITH 2006 AMENDMENTS)  
2014 - INDIANA BUILDING CODE (675 IAC 13)  
(MODEL CODE: INTERNATIONAL BUILDING CODE, 2012 EDITION)

2014 - INDIANA FIRE CODE (675 IAC 22)  
(MODEL CODE: INTERNATIONAL FIRE CODE, 2012 EDITION)

**Accessibility**

CHAPTER 11 - ACCESSIBILITY  
(INDIANA BUILDING CODE)

ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES  
(ICC A117.1, 2009 EDITION)

**Plumbing**

2012 - INDIANA PLUMBING CODE (675 IAC 16)  
(MODEL CODE: INTERNATIONAL PLUMBING CODE, 2006 EDITION)

**Fuel Gas**

2014 - INDIANA FUEL GAS CODE (675 IAC 25)  
(MODEL CODE: INTERNATIONAL FUEL GAS CODE, 2012 EDITION)

**Mechanical**

2014 - INDIANA MECHANICAL CODE (675 IAC 18)  
(MODEL CODE: INTERNATIONAL MECHANICAL CODE, 2012 EDITION)

**Electrical**

2009 - INDIANA ELECTRICAL CODE (675 IAC 17)  
(MODEL CODE: NFPA 70: NATIONAL ELECTRICAL CODE, 2008 EDITION)

**Energy**

2010 - INDIANA ENERGY CONSERVATION CODE (675 IAC 19)  
(MODEL CODE: ANSI/ASHRAE STANDARD 90.1, 2007 EDITION)

**General Notes:**

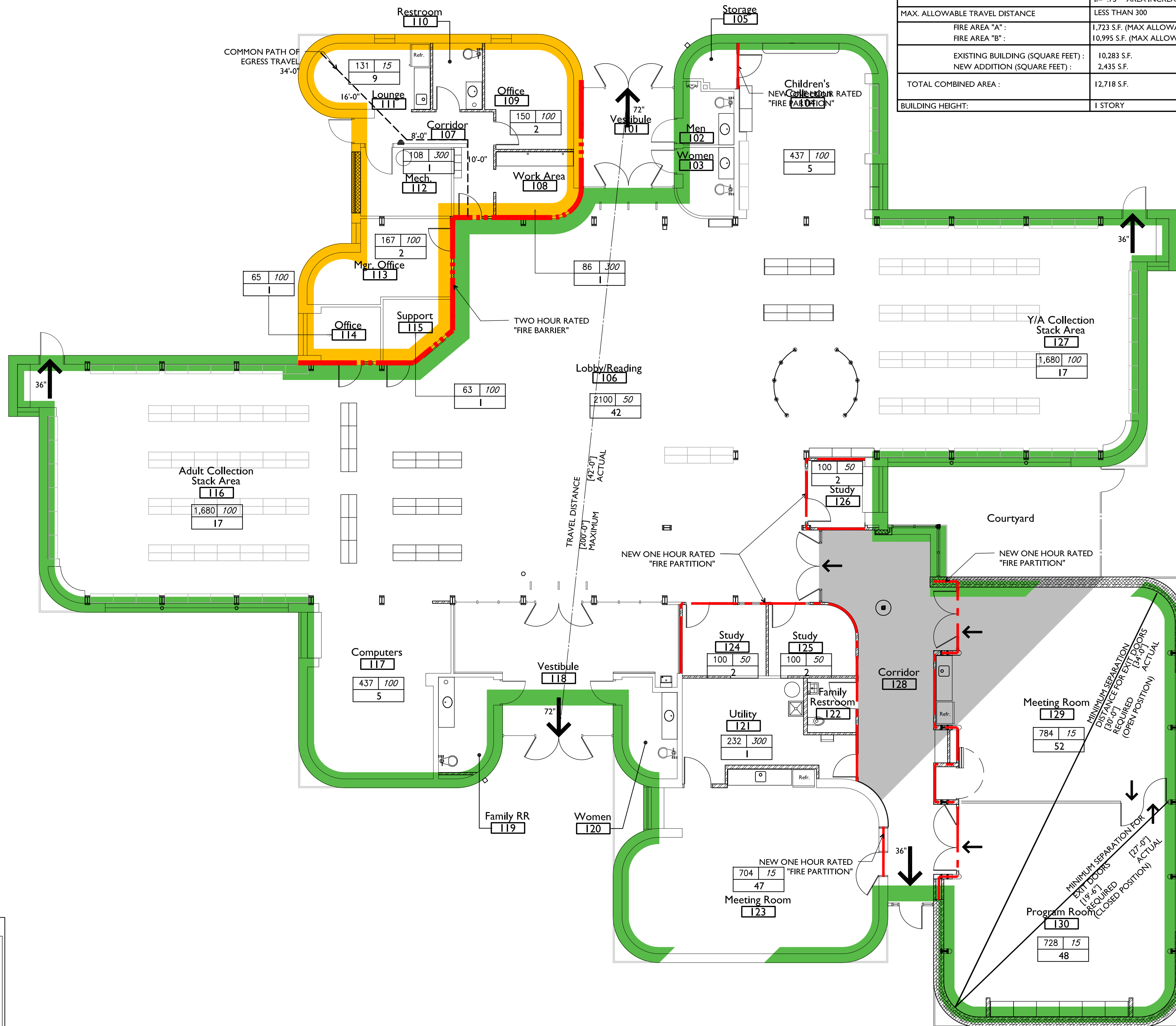
- REFER TO OTHER "GENERAL DRAWINGS" IN THE CONSTRUCTION DOCUMENT SET FOR OTHER INFORMATION IN REFERENCE TO CODE ISSUES.
- IN ANY AND ALL RATED WALL ASSEMBLIES, THE WALL IS TO CONTINUE TO THE UNDERSIDE OF THE FLOOR OR ROOF DECK ABOVE, UNLESS OTHERWISE NOTED, FIRESTOP TOP OF WALL TO DECK.
- IN ANY AND ALL RATED WALL ASSEMBLIES, ANY AND ALL PENETRATIONS SHALL MAINTAIN THE REQUIRED RATED PROTECTION BY FIRESTOPPING ALL MATERIALS, AT ALL EDGES AND OPENINGS THROUGH THE WALL, SO THAT THERE IS NO OPEN PASSAGE THROUGH THE WALL OR BREACH IN THE RATED ASSEMBLY.
- IN ANY AND ALL RATED WALL ASSEMBLIES, THE REQUIRED RATING OF THE OPENINGS IS AS INDICATED ON THE PLAN FOR EACH WALL.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE PROTECTION AT RATED WALLS AS REQUIRED FOR ALL TRADES AND ALL COMPONENTS, WHETHER OR NOT ITEMS ARE SPECIFICALLY INDICATED ON OTHER DRAWING SHEETS.

**Plan Legend:**

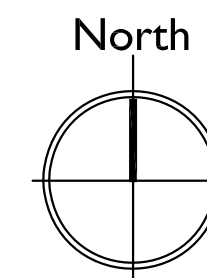
- 1-HOUR RATED "FIRE PARTITION"
- 2-HOUR RATED "FIRE BARRIER"
- COMMON PATH OF EGRESS TRAVEL
- EXIT ACCESS TRAVEL DISTANCE
- DIRECTION OF EGRESS TRAVEL
- EXIT / EXIT ACCESS (NUMBER INDICATES CLEAR WIDTH)
- OCCUPANT LOAD CALCULATION  
AREA / LOAD FACTOR  
OCCUPANT LOAD
- FIRE AREA "A"  
(1,723 S.F.) MAXIMUM FIRE AREA 12,000 S.F.
- FIRE AREA "B"  
(10,995 S.F.) MAXIMUM FIRE AREA 12,000 S.F.
- ADDITION  
(2,435 S.F.)

**Code Review:**

PREPARED BY:  
LAWRENCE J. TIPPERMAN, AIA  
KOVERT HAWKINS ARCHITECTS  
812-282-9554

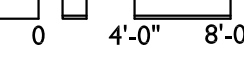


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**Life Safety Plan  
And Code Information**

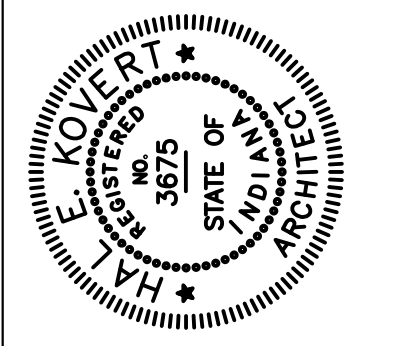
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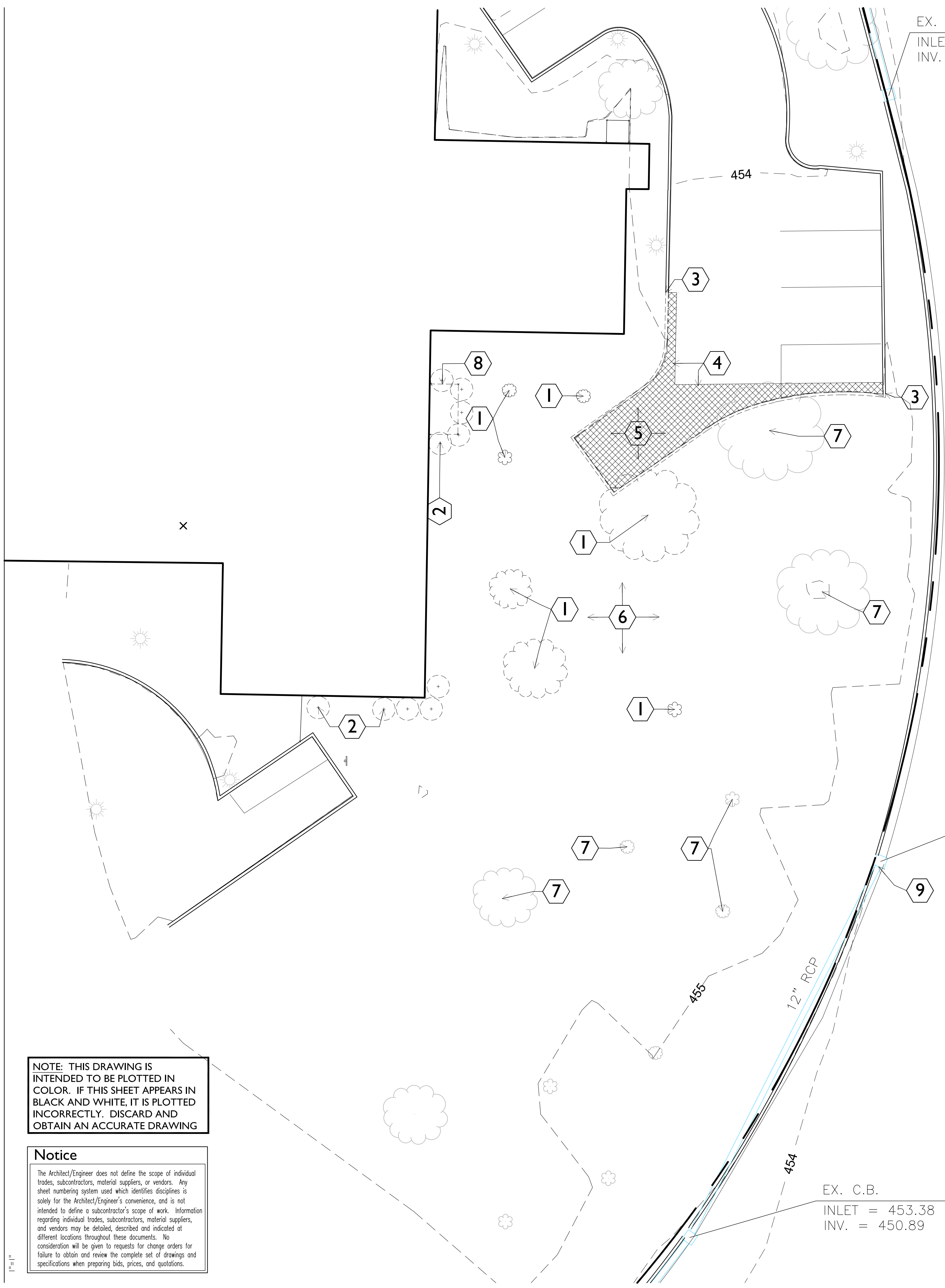
Drawn: ZW  
Checked By: HK  
Project No.: 1723.02  
Date: 12/07/2017



**2018 Renovation & Addition  
Clarksville Branch Library**  
Jeffersonville Township Public Library  
1312 Eastern Boulevard  
Clarksville, Indiana 47129

Sheet  
**G-101**





EX. C.B.  
 INLET = 453.92  
 INV. = 451.80

EX. C.B.  
 INLET = 454.05  
 INV. = 451.25

EX. C.B.  
 INLET = 453.38  
 INV. = 450.89

**Legend**

REMOVED ASPHALT 

**Keynotes**

- 1 EXISTING TREE TO BE REMOVED.
- 2 EXISTING FOUNDATION PLANTINGS TO BE REMOVED.
- 3 START/ STOP OF WHERE EXISTING CURB TO BE REMOVED. REFER TO CONSTRUCTION PLANS FOR DETAILS ON NEW CURBING.
- 4 SAWCUT LINE OF WHERE EXISTING ASPHALT IS TO BE REMOVED. REFER TO 3/C-401 FOR SAWCUT DETAIL.
- 5 ALL EXISTING ASPHALT, AS SHOWN IN HATCH, TO BE REMOVED. ASPHALT AND BASE MATERIAL TO BE COMPLETELY REMOVED. REFER TO CONSTRUCTION PLANS FOR NEW PARKING LOT LAYOUT.
- 6 GRADES TO BE ALTERED TO ALLOW THE SAME FLOOR ELEVATION FOR THE ADDITION AS EXISTING LIBRARY AND TO CAPTURE ADDITIONAL STORMWATER RUNOFF. REFER TO SOIL NOTES BELOW FOR ADDITIONAL INFORMATION.
- 7 EXISTING TREE TO BE SAVED AND PRESERVED DURING THE CONSTRUCTION PROCESS. REFER TO LANDSCAPE PLANS FOR TREE PRESERVATION DETAILS.
- 8 CONCRETE SLAB TO BE COMPLETELY REMOVED.
- 9 EXISTING CATCH BASIN TO BE ALTERED FOR NEW STORM LINE. REFER TO GRADING AND DRAINAGE PLANS FOR DETAILS.

**Soil Notes**

- 1. THE TOP 6" OF TOPSOIL SHOULD BE REMOVED IN ALL CONSTRUCTION AREAS. ANY ADDITIONAL SOIL STILL IN PLACE (WET, SOFT SOILS, UNCONTROLLED FILL, ETC.) SHOULD BE REMOVED.
- 2. TOP SOIL MAY BE STOCKPILED AND REUSED FOR LANDSCAPE AREAS. ANY ADDITIONAL SOIL REMAINING SHALL BE REMOVED FROM THE SITE.

**General Notes**

- 1. ALL EFFORTS SHOULD BE TAKEN TO NOT DISTURB AREAS BEYOND THE CONSTRUCTION LIMITS. FENCING SHOULD BE USED TO SECURE THE CONSTRUCTION SITE SO NO DAMAGE IS DONE TO EXISTING SITE FEATURES IN PLACE OR ANY NEW CONSTRUCTION.

**NOTE:** THIS DRAWING IS INTENDED TO BE PLOTTED IN COLOR. IF THIS SHEET APPEARS IN BLACK AND WHITE, IT IS PLOTTED INCORRECTLY. DISCARD AND OBTAIN AN ACCURATE DRAWING

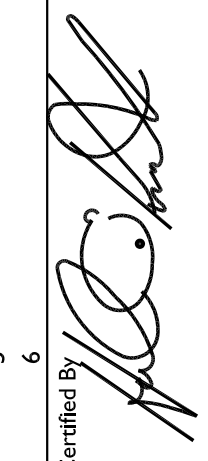
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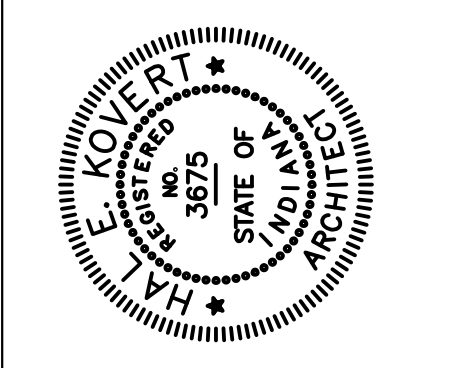
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 architects

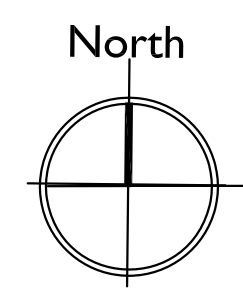
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 Checked By: MCG  
 Project No.: 1723.02  
 Date: 12/07/2017

Revisions:  
 1  
 2  
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 Certified By: 



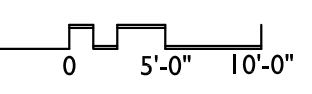
**2018 Renovation & Addition**  
**Clarksville Branch Library**  
 Jeffersonville Township Public Library  
 1312 Eastern Boulevard  
 Clarksville, Indiana 47129

Sheet  
**C-001**



**Demolition Plan**

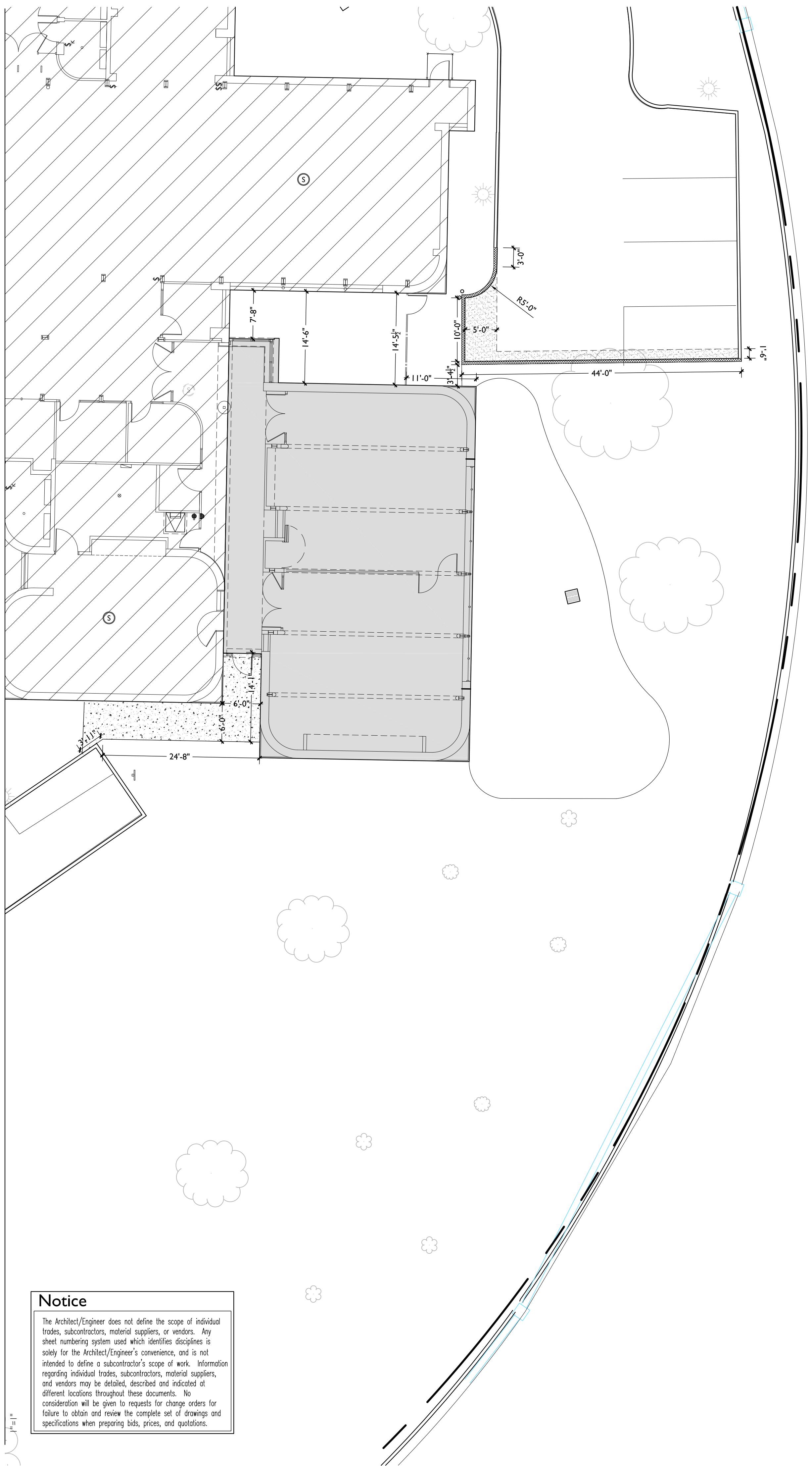
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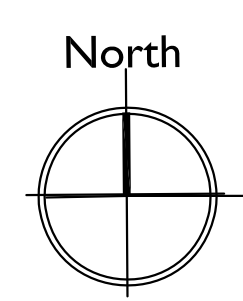
**Legend**

- New Asphalt Pavement
- New Concrete Walk
- New Curbing
- Existing Library
- Library Addition

**Dimension Notes**

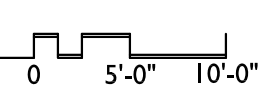
1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS THROUGHOUT SITE.
2. ANY DIMENSION QUESTIONS IN THE FIELD MUST BE CONFIRMED BY PROJECT ARCHITECT. IT IS THE ROLE OF THE CONTRACTOR TO VERIFY AND PLACE ALL SITE ELEMENTS ACCORDING TO THESE PLANS.

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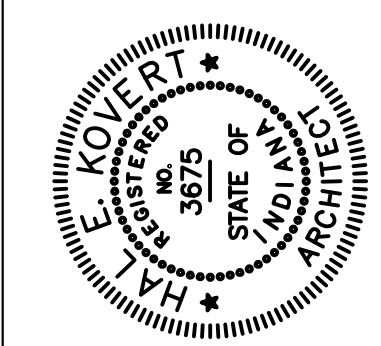
**Site Dimension Plan**

full size plot scale: 1"=10'-0"

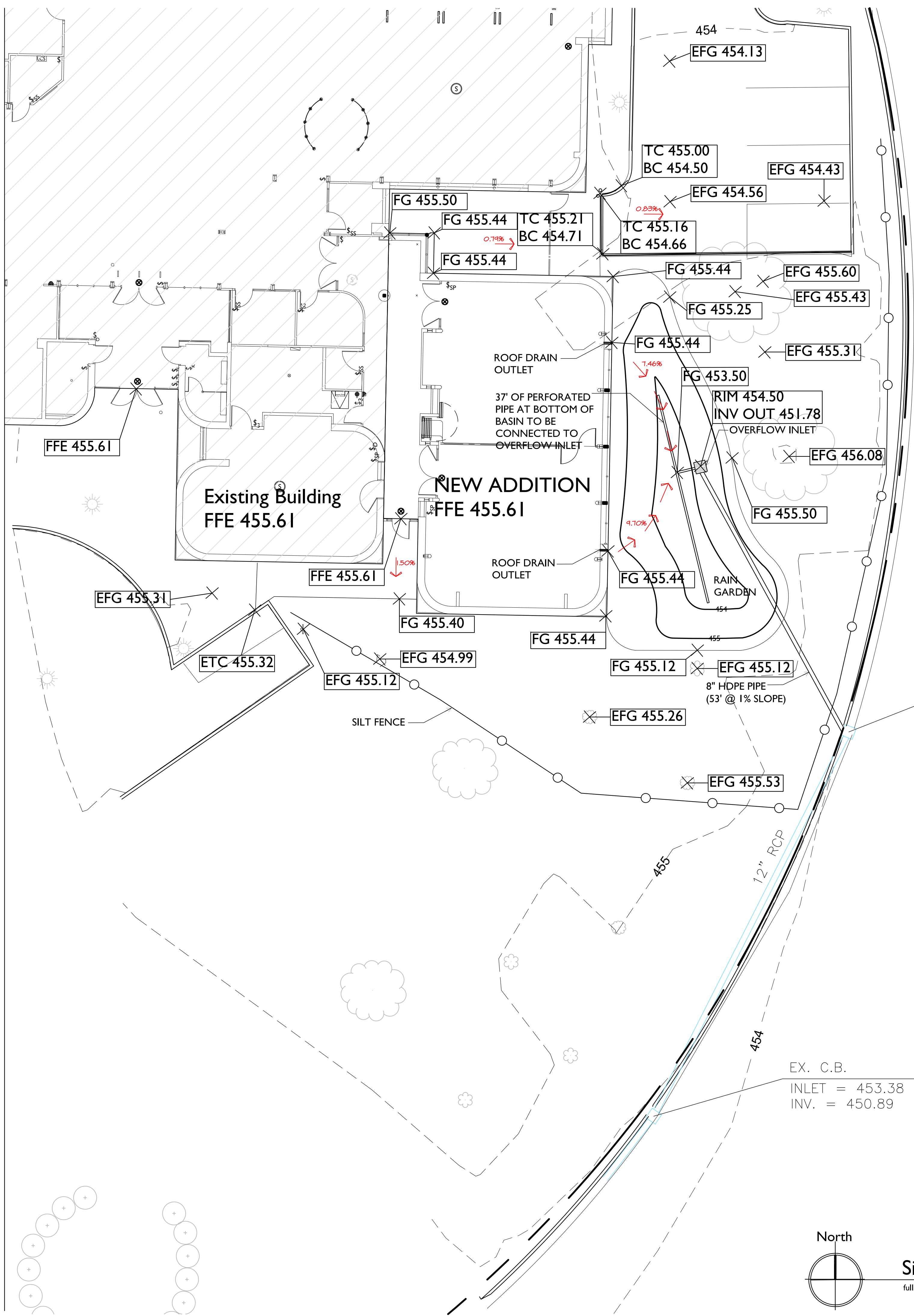


Drawn	MG
Checked By	MG
Project No.	1723.02
Date	12/07/2017

Revisions	1	
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	3	
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	6	







**Legend**

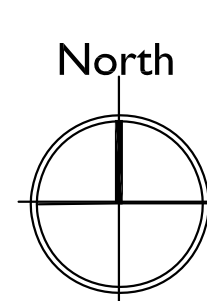
Existing Contours	--- 680 ---	Silt Fence	—○—○—
Newly Graded Contours	— 680 —	Flow Arrows	←
Curb: Top Elevation	TC xxx.xx	Existing Storm Sewer	—●—●—
Curb: Bottom Elevation	BC xxx.xx	New Stormwater Pipe	—●—●—
Finished Grade	FG xxx.xx	Existing Light Pole	☀
Finished Floor Elevation	FFE xxx.xx	Existing Tree/Landscape	☁
Ex. Curb: Top Elevation	ETC xxx.xx	Property Line	— — — —
Ex. Curb: Bottom Elevation	EBC xxx.xx		
Ex. Finished Grade	EFG xxx.xx		
Inlet: RIM Elevation	RIM xxx.xx		
Pipe: Invert Elevation	INV xxx.xx		

**General Notes**

1. A MAXIMUM OF 20:1 GRADE ALONG ALL SIDEWALK AREAS, IF THERE IS A CONFLICT IN THE FIELD CONTACT THE PROJECT ARCHITECT IMMEDIATELY.
2. MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS AND ENTRANCES.
3. CONTRACTOR SHOULD CONTACT ARCHITECT IMMEDIATELY IF CONFLICTS ARISE IN THE FIELD THAT PREVENT GRADES FROM BEING MAINTAINED.
4. NEW FINISHED GRADES TO MATCH UP WITH EXISTING GRADE WITH EVEN TRANSITION.
5. THE ROOF DRAINS ON THE EXISTING BUILDING ARE CURRENTLY ALL DIRECTED TO A STORM DRAIN ALONG EASTERN BLVD. NO ADDITIONAL STORMWATER WILL BE DIRECT TO THIS DRAIN AS PART OF THIS PROJECT.
6. THE NEW ADDITION ROOF DRAINS WILL OUTLET DIRECTLY INTO THE NEW RAIN GARDEN / DETENTION BASIN ON SITE BEFORE ENTERING A CATCH BASIN OFF OF TRIANGLE DRIVE.
7. REFER TO I/C-402 FOR RAIN GARDEN DESIGN AND LANDSCAPING PLANS FOR MATERIAL DETAILS.

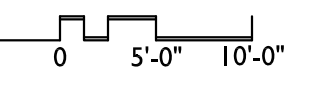
EX. C.B.  
INLET = 454.05  
INV. = 451.25

EX. C.B.  
INLET = 453.38  
INV. = 450.89



**Site Grading Plan**

full size plot scale: 1"=10'-0"

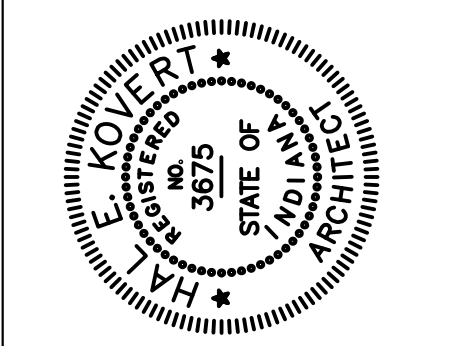


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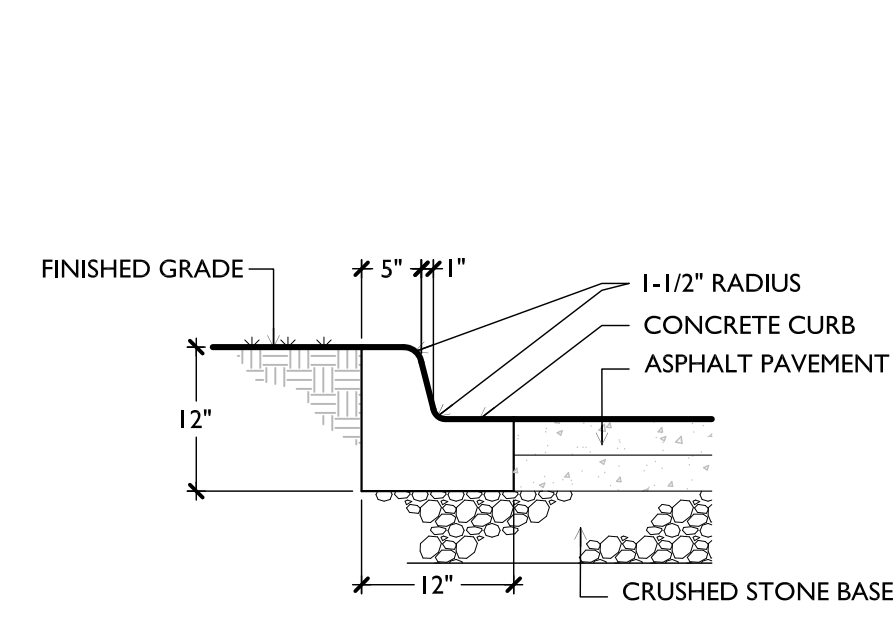
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architects

Drawn	OB	12/07/2017
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Project No.	1723.02	
Date	12/07/2017	

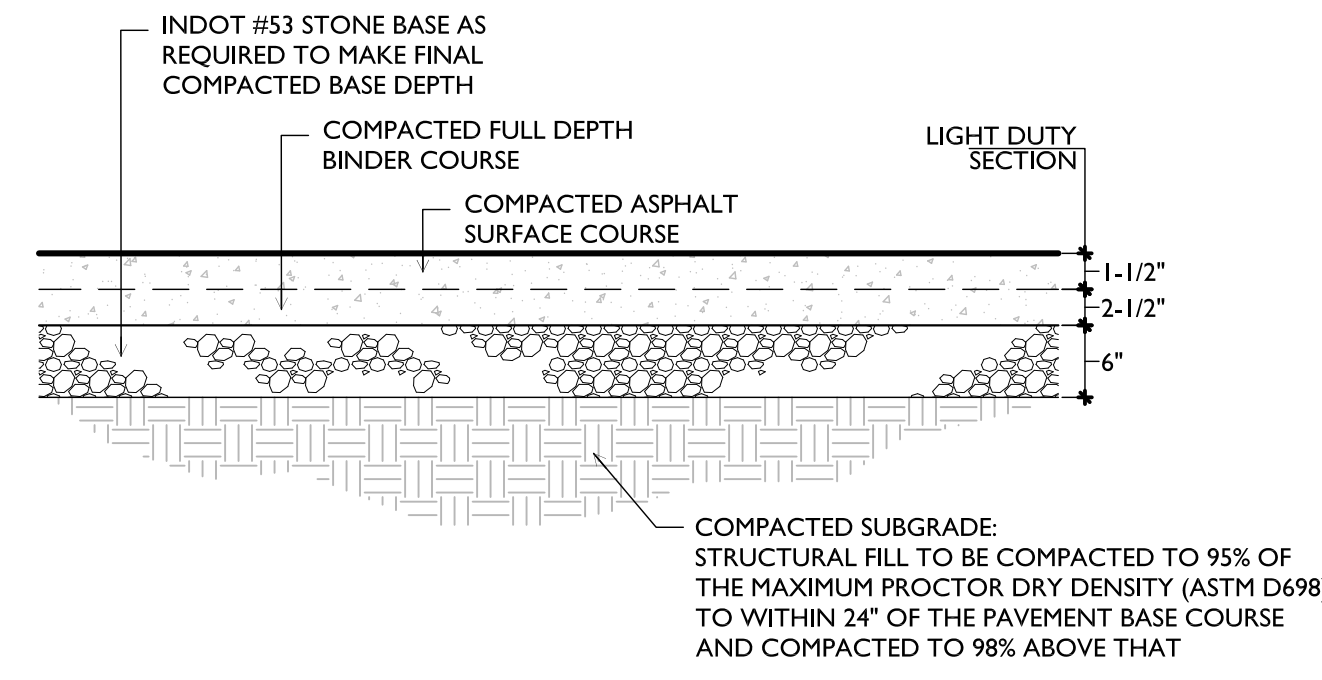


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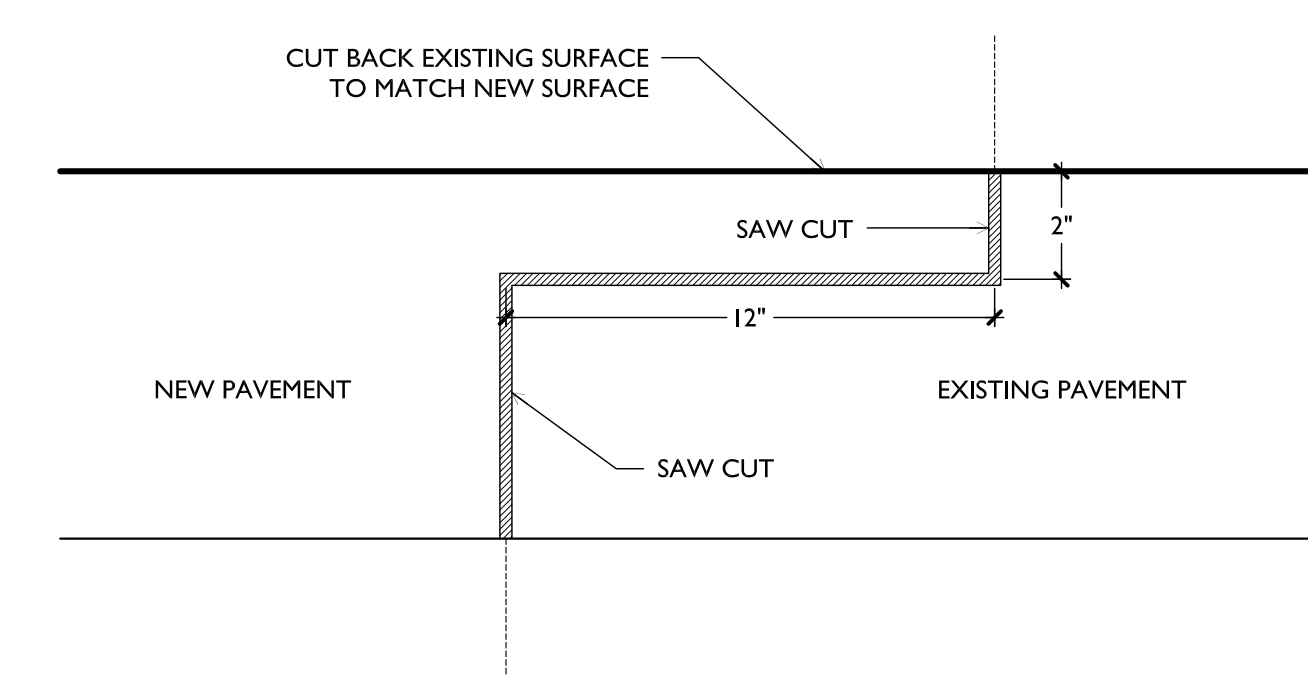




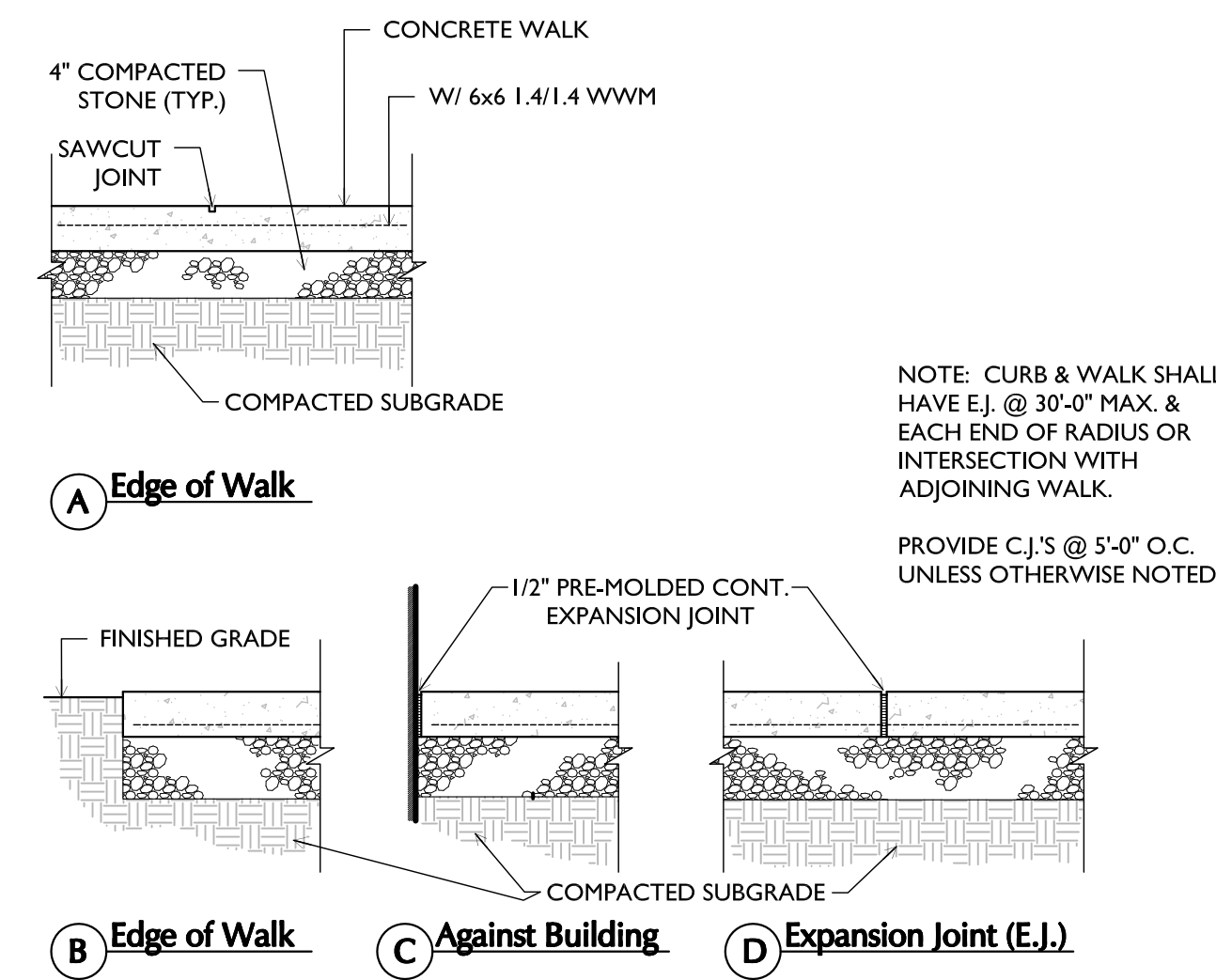
**1 Slip-Form Curb Detail**  
C-401 NOT TO SCALE



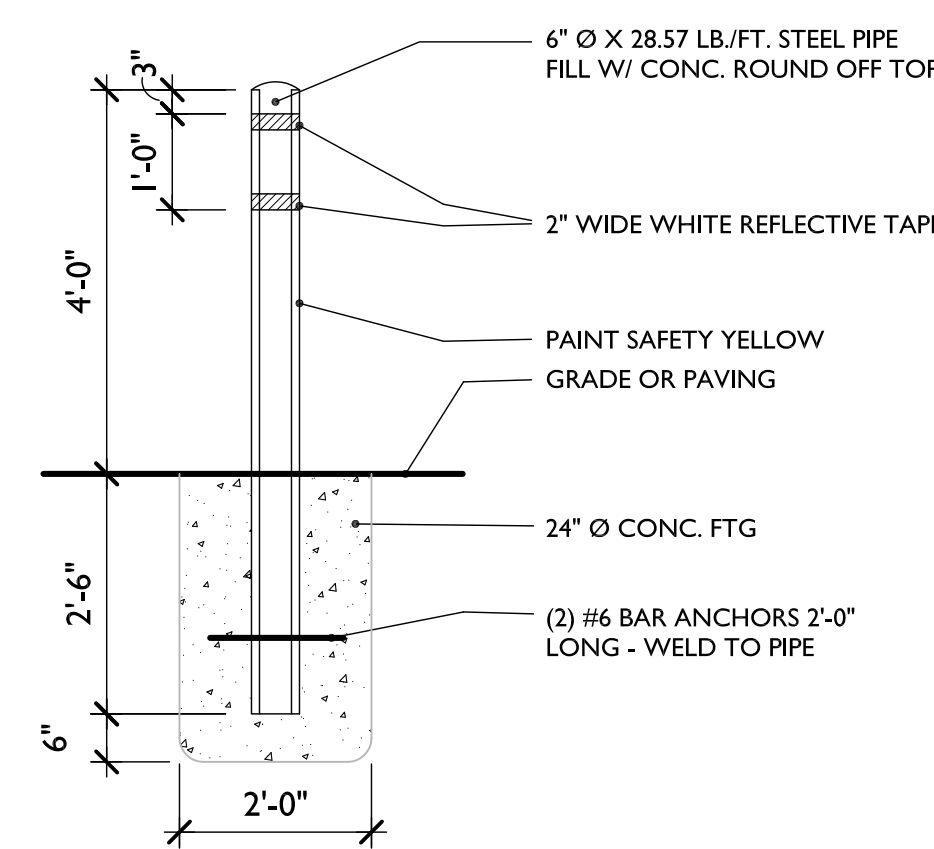
**2 Asphalt Pavement Detail**  
C-401 NOT TO SCALE



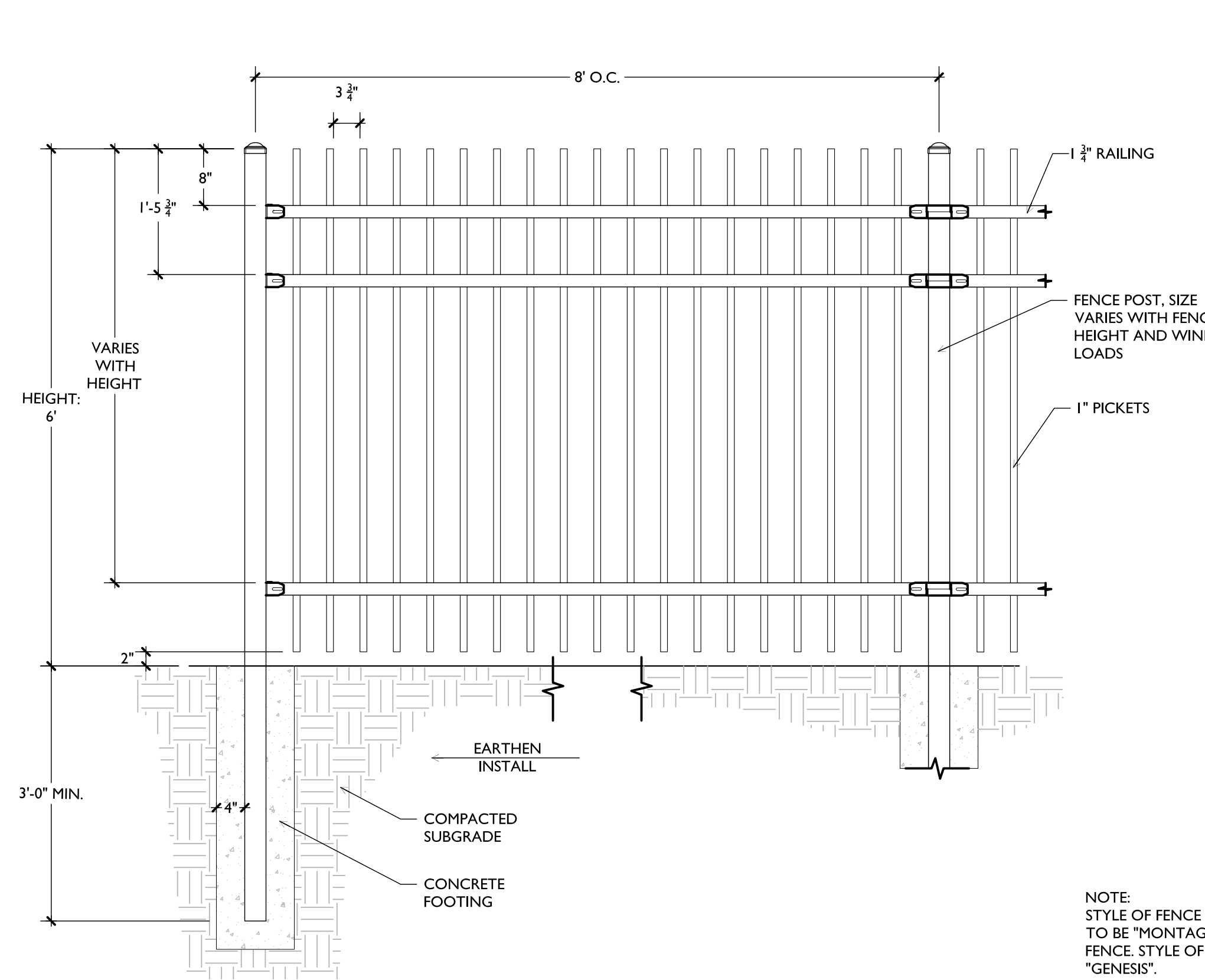
**3 Sawcut Detail**  
C-401 NOT TO SCALE



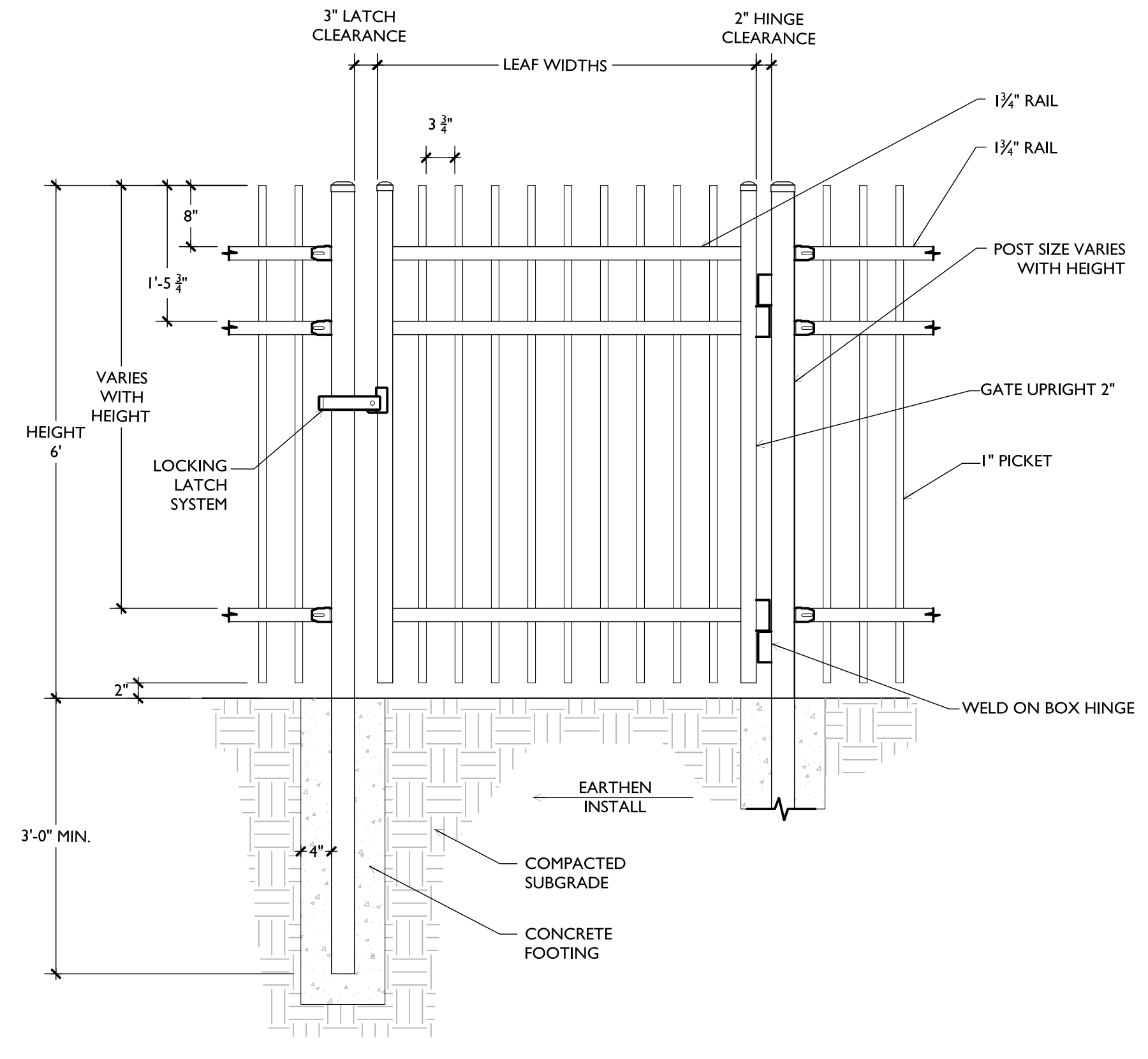
**4 Concrete Walk Detail**  
C-401 NOT TO SCALE



**5 Bollard Detail**  
C-401 SCALE: 1/2" = 1'-0"



**6 6'-0" Decorative Steel Fence Detail**  
C-401 NOT TO SCALE

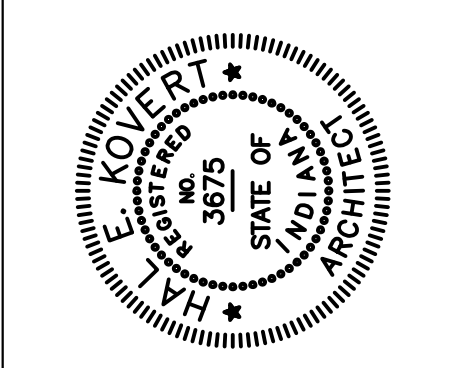


**7 6'-0" Decorative Steel Gate Detail**  
C-401 NOT TO SCALE

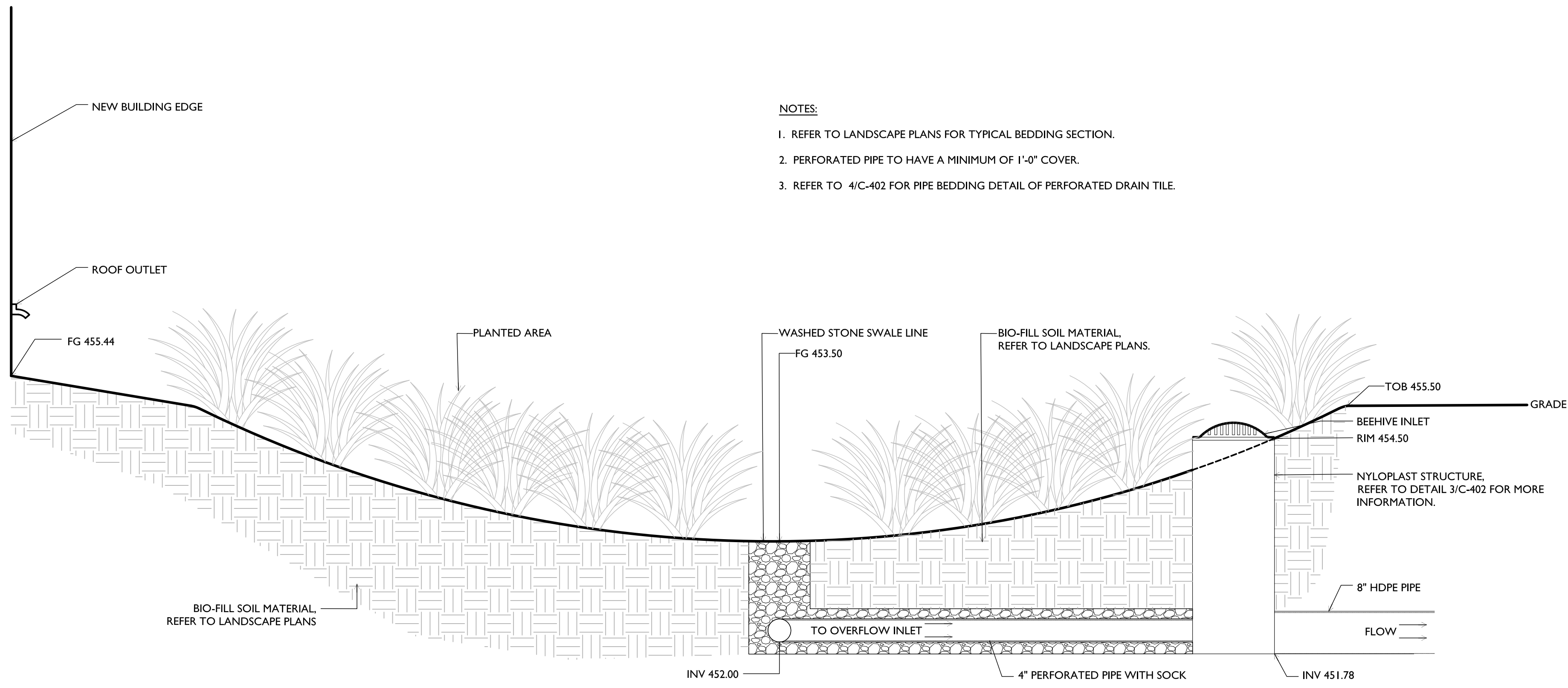
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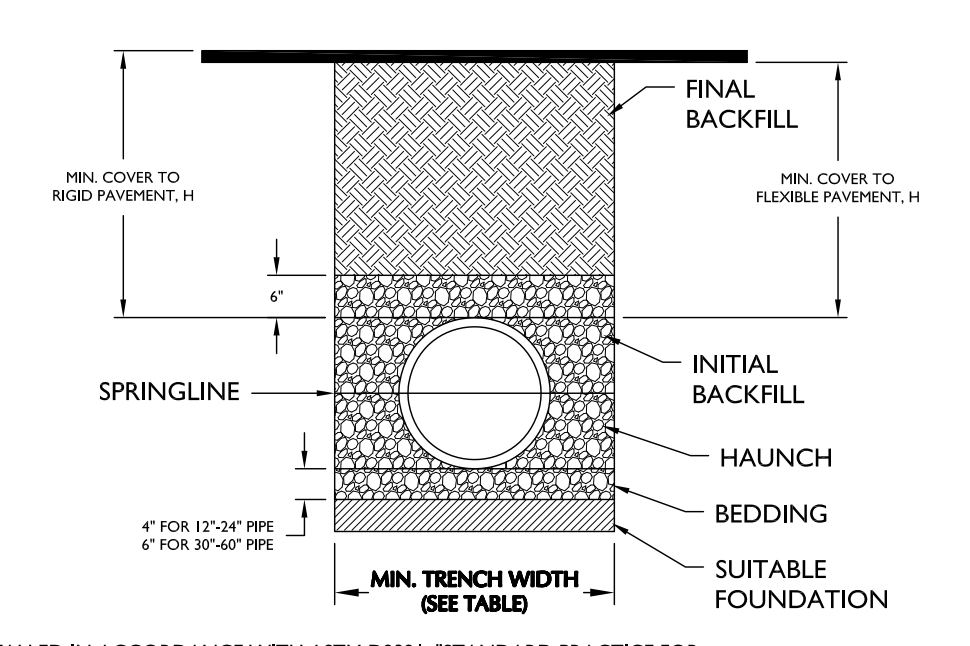
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Drawn	Project No. 1723.02
Checked By	Date 12/07/17
Revisions	
1	
2	
3	
4	
5	
6	







- NOTES:**
- REFER TO LANDSCAPE PLANS FOR TYPICAL BEDDING SECTION.
  - PERFORATED PIPE TO HAVE A MINIMUM OF 1'-0" COVER.
  - REFER TO 4/C-402 FOR PIPE BEDDING DETAIL OF PERFORATED DRAIN TILE.



**RECOMMENDED MINIMUM TRENCH WIDTHS**

PIPE DIA.	MIN. TRENCH WIDTH
4"	21"
6"	23"
8"	24"
10"	28"
12"	30"
15"	34"
18"	39"
24"	48"
30"	56"
36"	64"
42"	72"
48"	80"
54"	88"
60"	96"

- NOTES:**
- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
  - MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL WHEN REQUIRED.
  - FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER, AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER, AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
  - BEDDING: SUITABLE MATERIAL SHALL BE CLASS II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER, UNLESS OTHERWISE NOTED BY THE ENGINEER. MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-900mm).
  - INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
  - MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

**MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS**

PIPE DIA.	SURFACE LIVE LOADING CONDITION	
	H-25	HEAVY CONSTRUCTION (75T AXLE LOAD) **
12"-48"	12"	48"
54"-60"	24"	60"

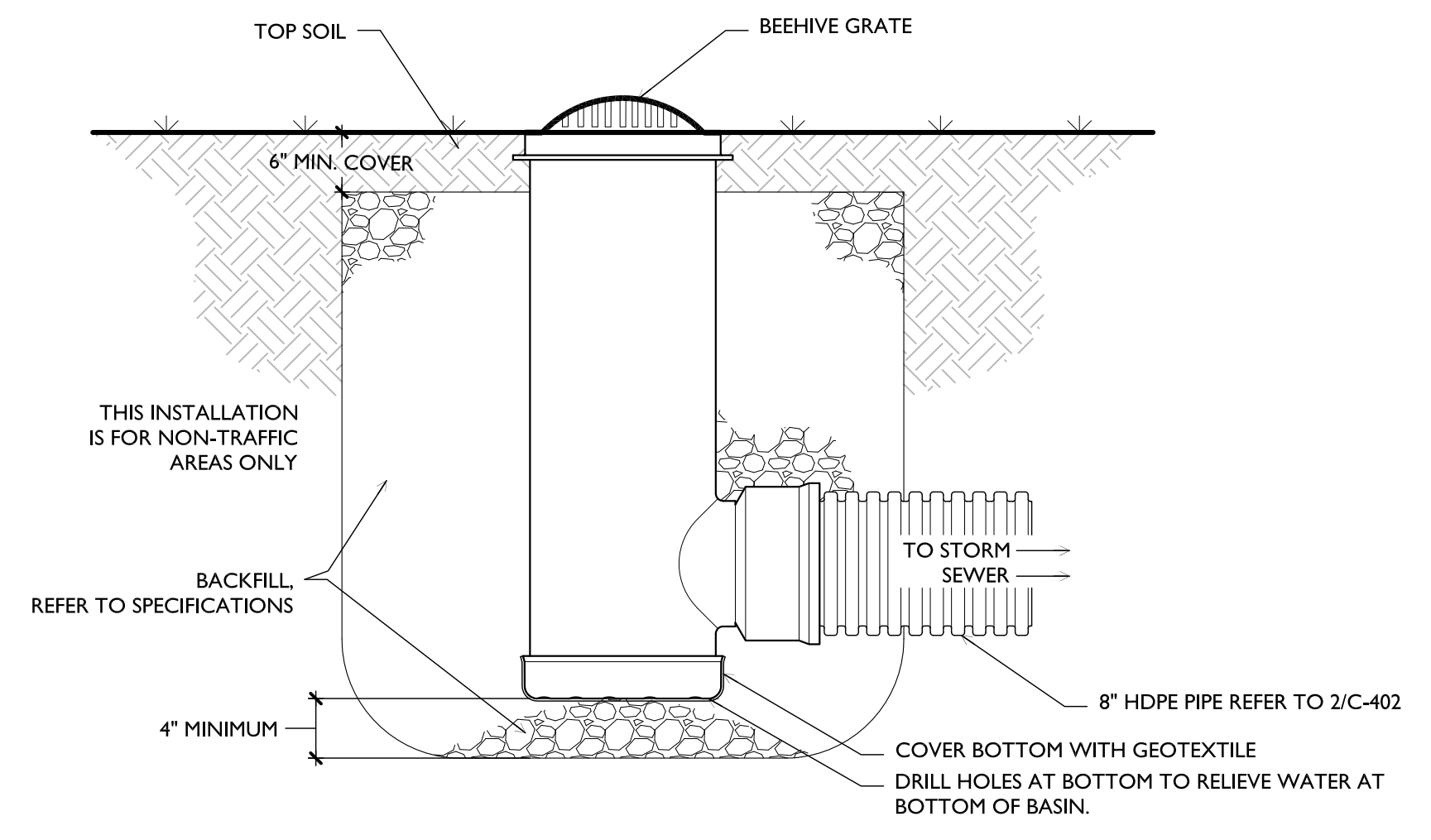
**MINIMUM RECOMMENDED COVER BASED ON RAILWAY LOADING CONDITIONS**

PIPE DIA.	COOPER E-80**	
	UP TO 24"	24"
30"-36"	36"	
42"-60"	48"	

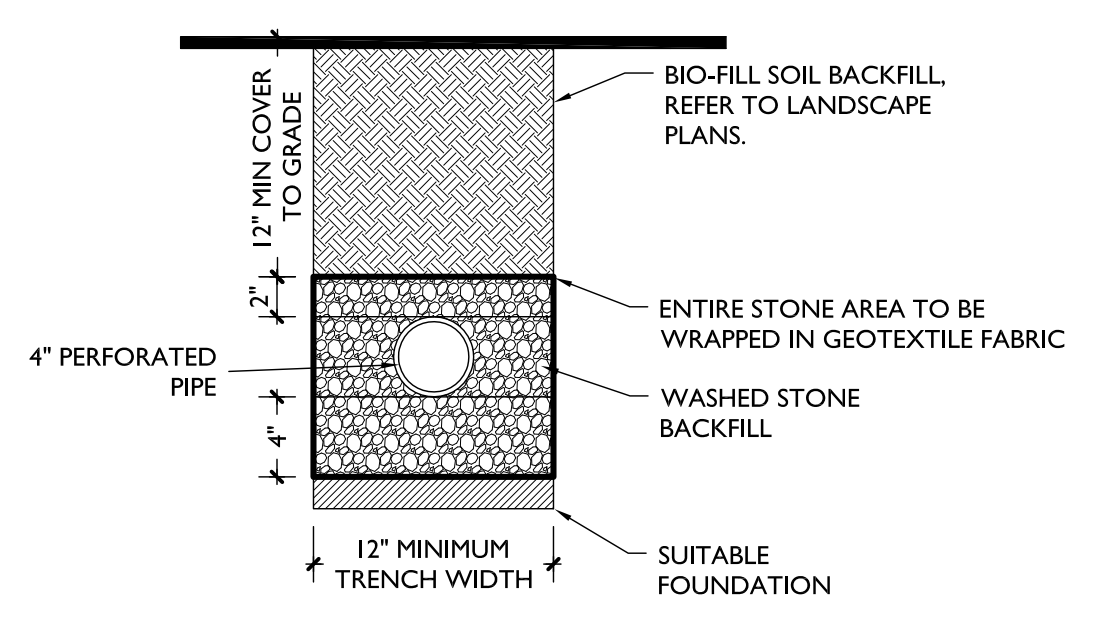
\*\* COVER IS MEASURED FROM TOP OF PIPE TO BOTTOM OF RAILWAY TIE.  
 \*\*\* E-80 COVER REQUIREMENTS, ARE ONLY APPLICABLE TO ASTM F 2306 PIPE.

**2 HDPE Storm Pipe Installation**  
 SCALE: NTS

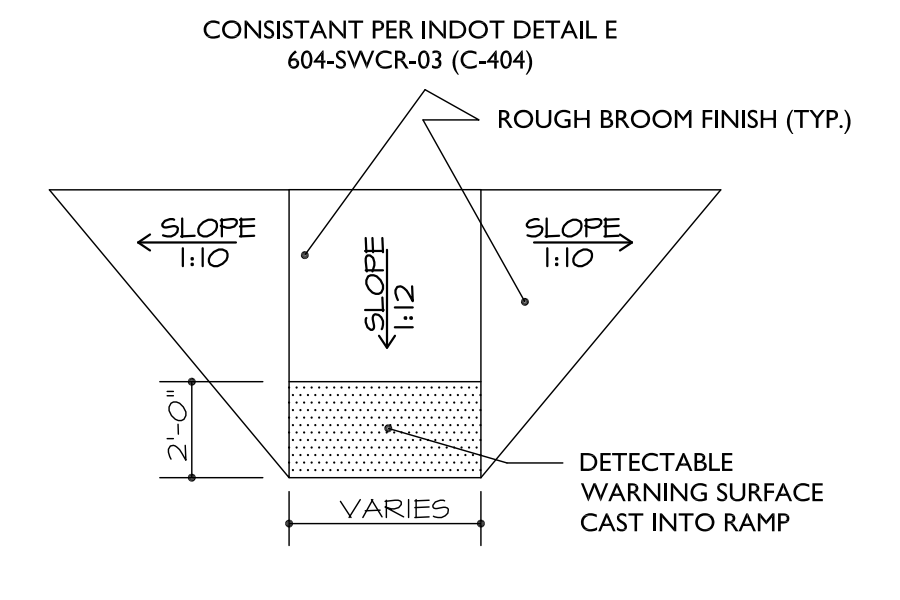
**1 Typical Rain Garden Section**  
 NOT TO SCALE



**3 Nyloplast Drain Basin Detail**  
 NOT TO SCALE



**4 Pervious Pipe Detail**  
 SCALE: NTS



**5 Handicap Ramp**  
 NOT TO SCALE

**NOTE:** THIS DRAWING IS INTENDED TO BE PLOTTED IN COLOR. IF THIS SHEET APPEARS IN BLACK AND WHITE, IT IS PLOTTED INCORRECTLY. DISCARD AND OBTAIN AN ACCURATE DRAWING

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**KovertHawkins**  
 architects

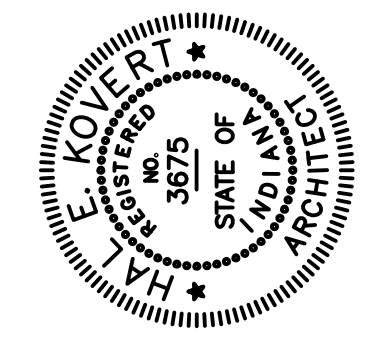
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Checked By	MG
Project No.	1723.02
Date	12/07/17

Revisions

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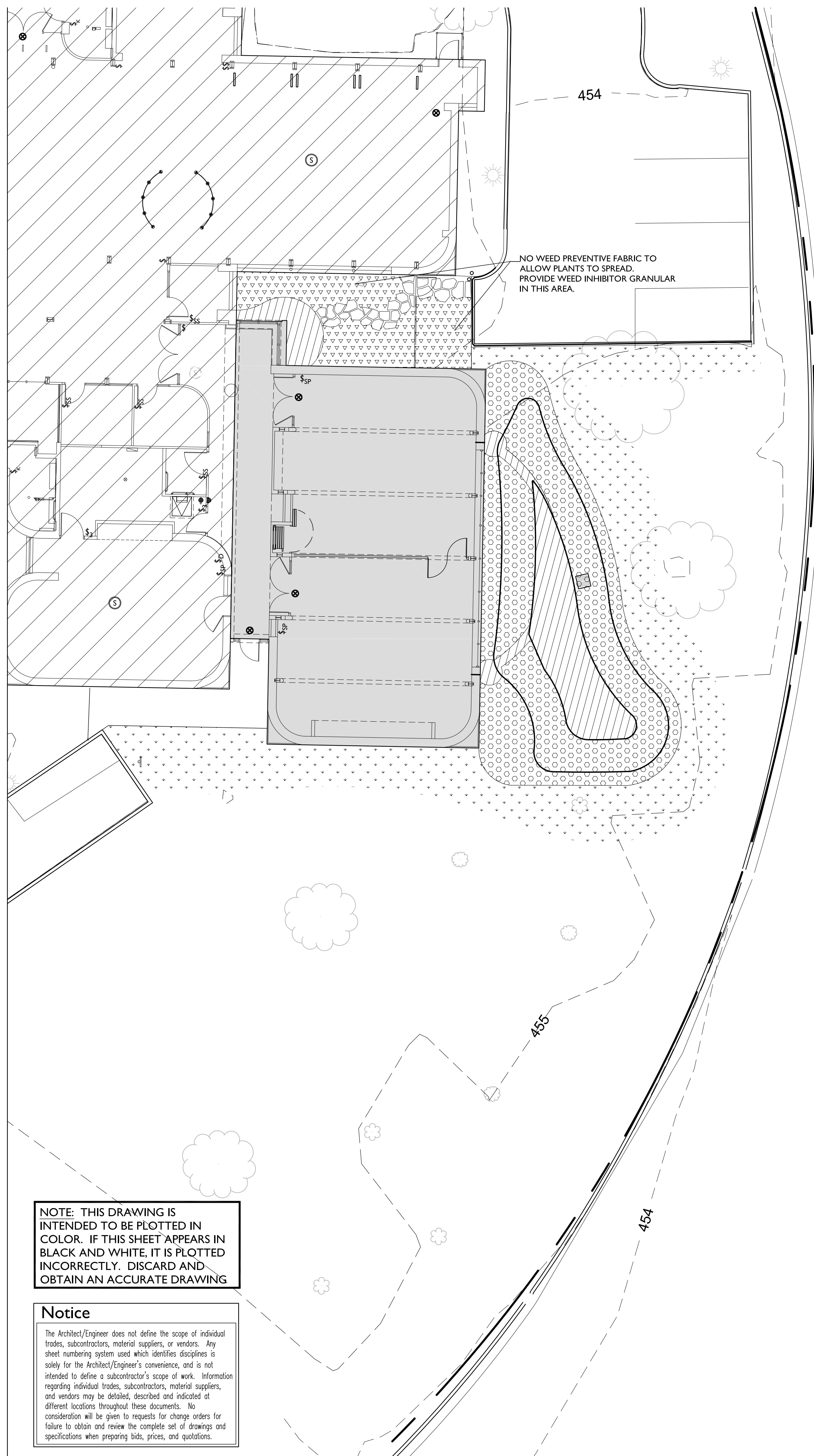


**2018 Renovation & Addition**  
**Clarksville Branch Library**  
 Jeffersonville Township Public Library  
 Clarksville, Indiana 47129  
 1312 Eastern Boulevard

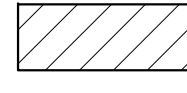
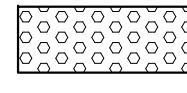










**Legend**

- New River Gravel Groundcover 
- New Hardwood Mulch 
- New Grass Seed 
- Cocoa Bean Shells 

**Seed/Mulch Notes**


1. All seeded areas with slopes greater than 5:1 should use seed mat with stakes to prevent seed from washing out. Seed to be fertilized at proper intervals to ensure thick tuft of grass. Refer to specifications for details on seed mat and fertilization.
2. Weed preventive fabric to be placed below all hardwood mulched and stone areas. Fabric to be staked in place before spreading.
3. All seeded areas to be crimped with straw according to specifications.

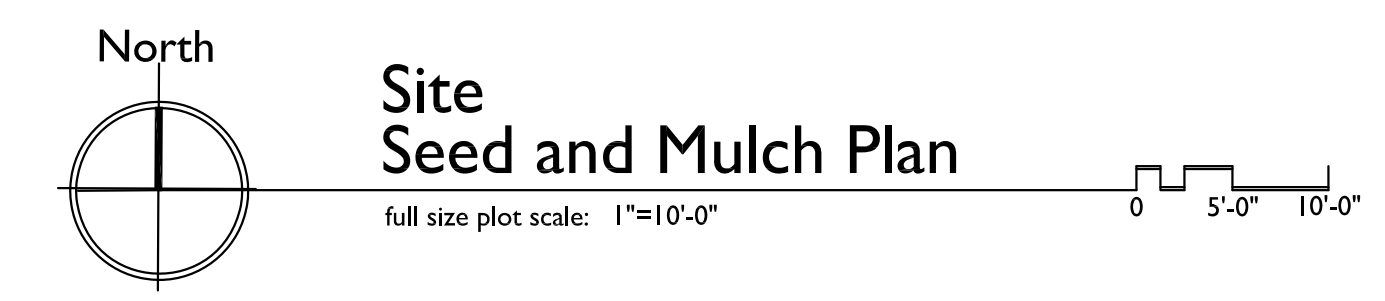
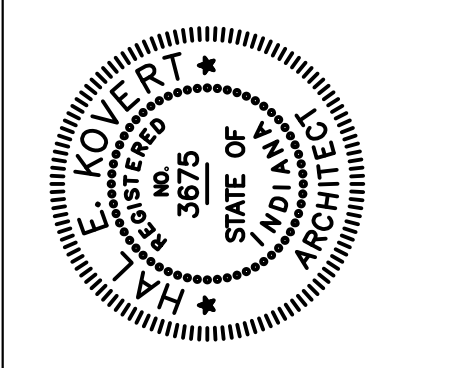


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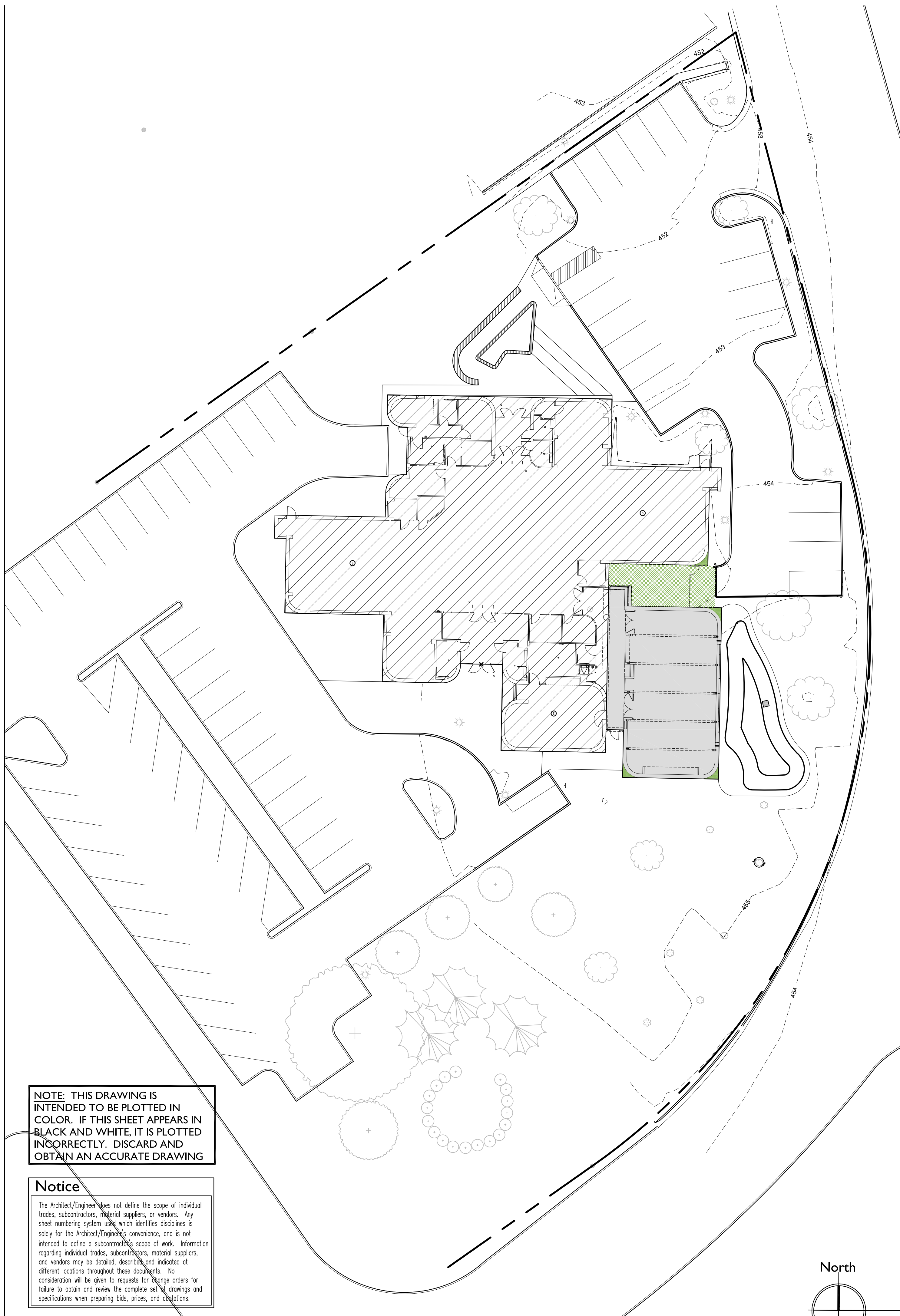
  

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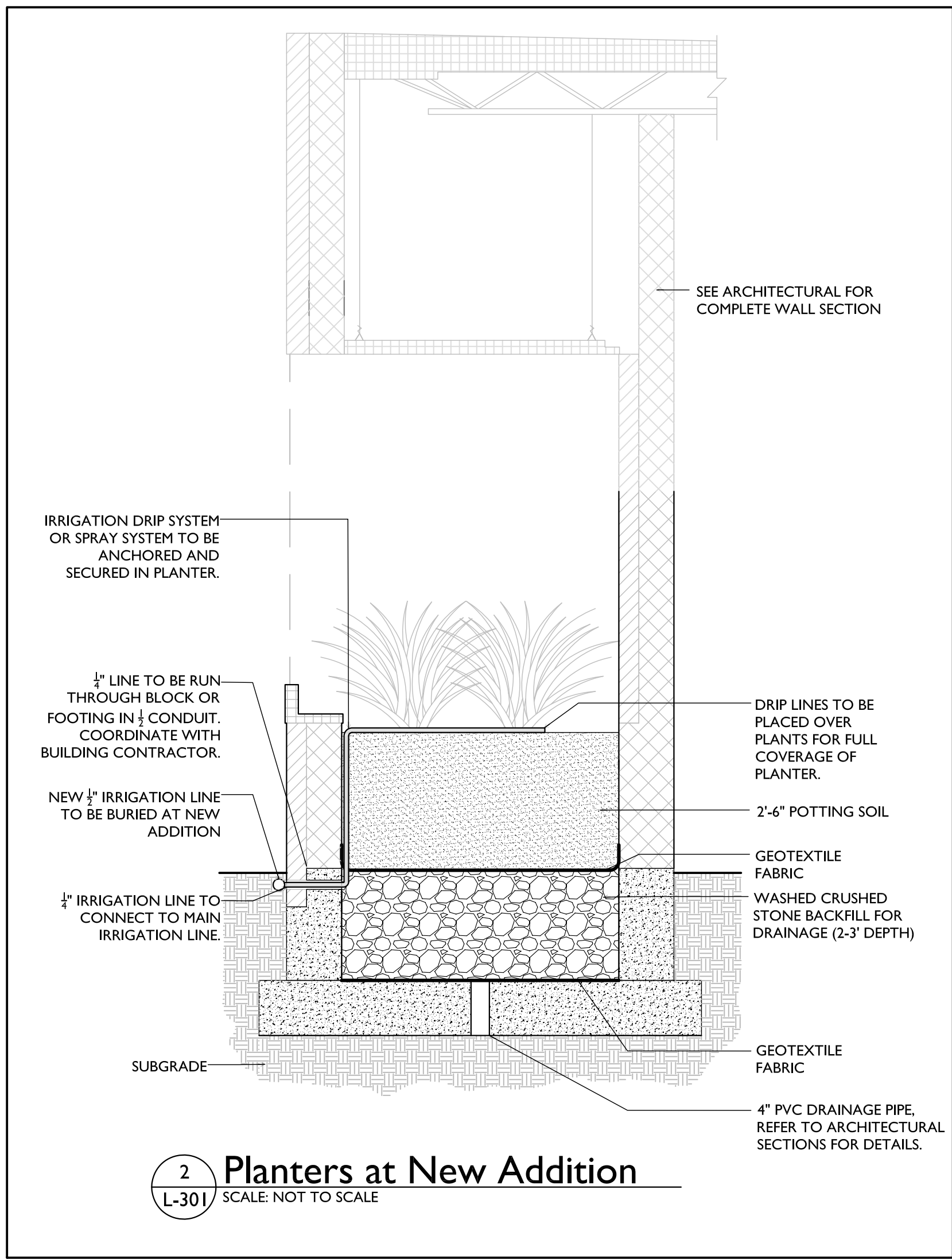


**Legend**

- Landscape Bed Irrigation Zone
- Container Drip Irrigation System

**Irrigation Notes**

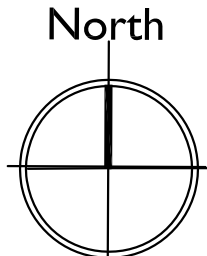
1. CONTRACTOR TO PROVIDE COMPLETE IRRIGATION SYSTEM, PROPERLY ZONED AND ACCEPTABLE TO LOCAL JURISDICTION REGULATIONS. SYSTEM COMPONENTS TO BE ACCORDING TO SPECIFICATIONS WITH 12 MONTH WARRANTY.
2. THIS PLAN IS A DIAGRAMMATIC DRAWING AND IS TO BE USED FOR IRRIGATION LOCATION AND PRICING PURPOSES ONLY.
3. ALL WATER VALVES TO BE SUBGRADE ON A GRAVEL BASE WITH A WEATHERPROOF VALVE BOX WITH REMOVABLE LID AT FINISH GRADE.
4. VALVES TO BE PLACED IN AN AREA WHICH CAN BE REACHED WITHOUT STANDING IN WATER ZONE FOR MAINTENANCE.
5. IRRIGATION CONTROLLER FUNCTION TO BE EXPLAINED TO OWNER BY INSTALLING CONTRACTOR. ALL VALVES TO BE POINTED OUT TO OWNER AND FLAGGED. TESTING OF SYSTEM TO BE WITH OWNER PRESENT.
6. INSTALLING CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND AREAS BEFORE START OF JOB AND NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.
7. IRRIGATION CONTROL BOX LOCATION TO BE DETERMINED IN THE FIELD, COORDINATE WITH THE PROJECT ARCHITECT / OWNER.
8. IRRIGATION SYSTEM POWER TO BE COORDINATED WITH ELECTRICIAN AS PART OF THIS PROJECT.
9. IRRIGATION SYSTEM WATER SUPPLY TO BE COORDINATED WITH PLUMBER AS PART OF THIS PROJECT.
10. CONCRETE/ASPHALT MAY NEED TO BE REMOVED/REPLACED TO INSTALL NEW IRRIGATION SYSTEM IN LARGE LANDSCAPE ISLANDS.
11. CONTAINER IRRIGATION SYSTEM MAY BE CONCEALED ALONG THE BASE OF THE BUILDING AND NOT BE ROUTED UNDER EXISTING CONCRETE. IF WATER LINES ARE ROUTED ALONG THE BUILDING, CONTRACTOR MAY ANCHOR LINES ON BUILDING TO PROTECT THEM AND PREVENT TRIPPING HAZARDS.
12. CONTRACTOR TO SUPPLY DRIP IRRIGATION SYSTEM AT ALL CONTAINER UNITS ATTACHED AT THE CORNERS OF THE BUILDING. DRIP IRRIGATION SYSTEMS TO BE SET ON TIMER AND BE COORDINATED WITH OWNER.
13. DRIP IRRIGATION SYSTEM TO BE ROUTED UP SIDE OF BUILDING AND BE ANCHORED AND CONCEALED AS BEST AS POSSIBLE. DRIP SYSTEM MUST BE ANCHORED INSIDE THE BUILDING PLANTER.



**2 Planters at New Addition**  
L-301 SCALE: NOT TO SCALE

**NOTE: THIS DRAWING IS INTENDED TO BE PLOTTED IN COLOR. IF THIS SHEET APPEARS IN BLACK AND WHITE, IT IS PLOTTED INCORRECTLY. DISCARD AND OBTAIN AN ACCURATE DRAWING**

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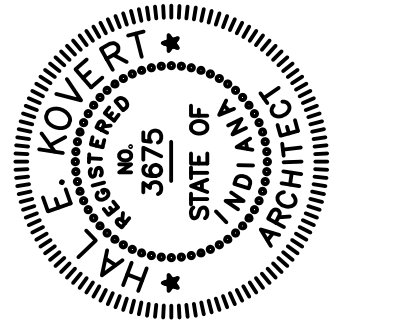


**Site Irrigation Plan**

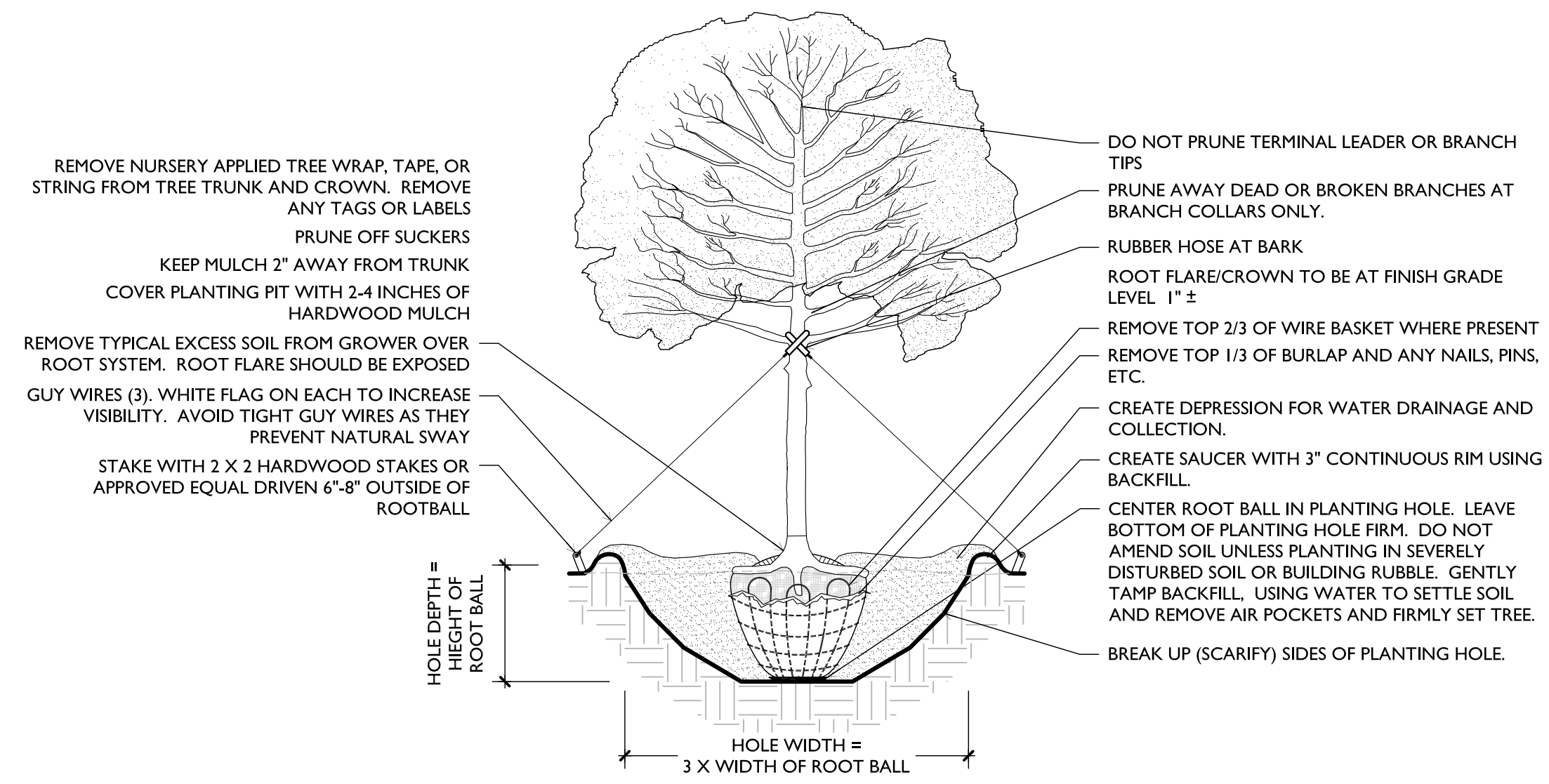
full size plot scale: 1"=20'-0"



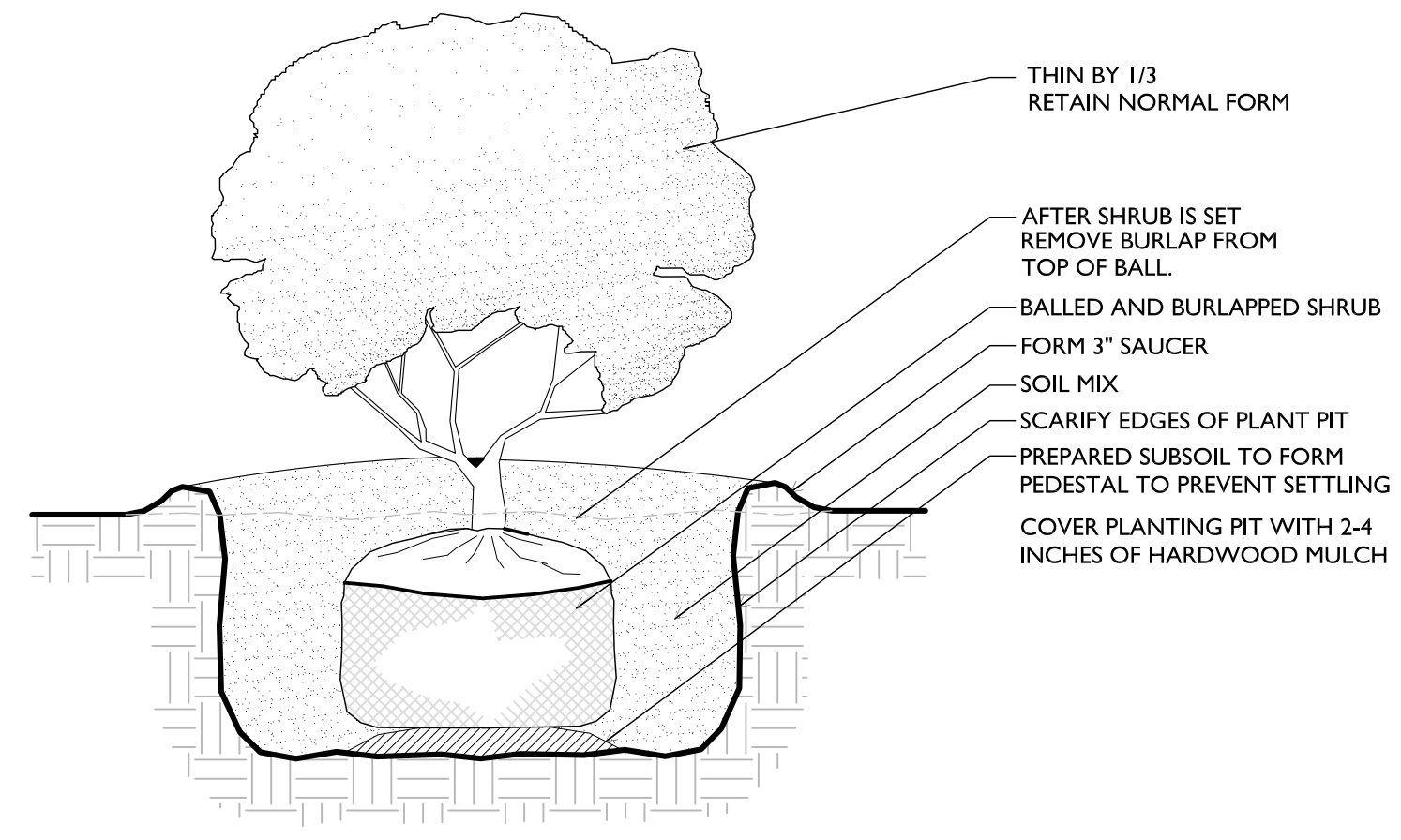
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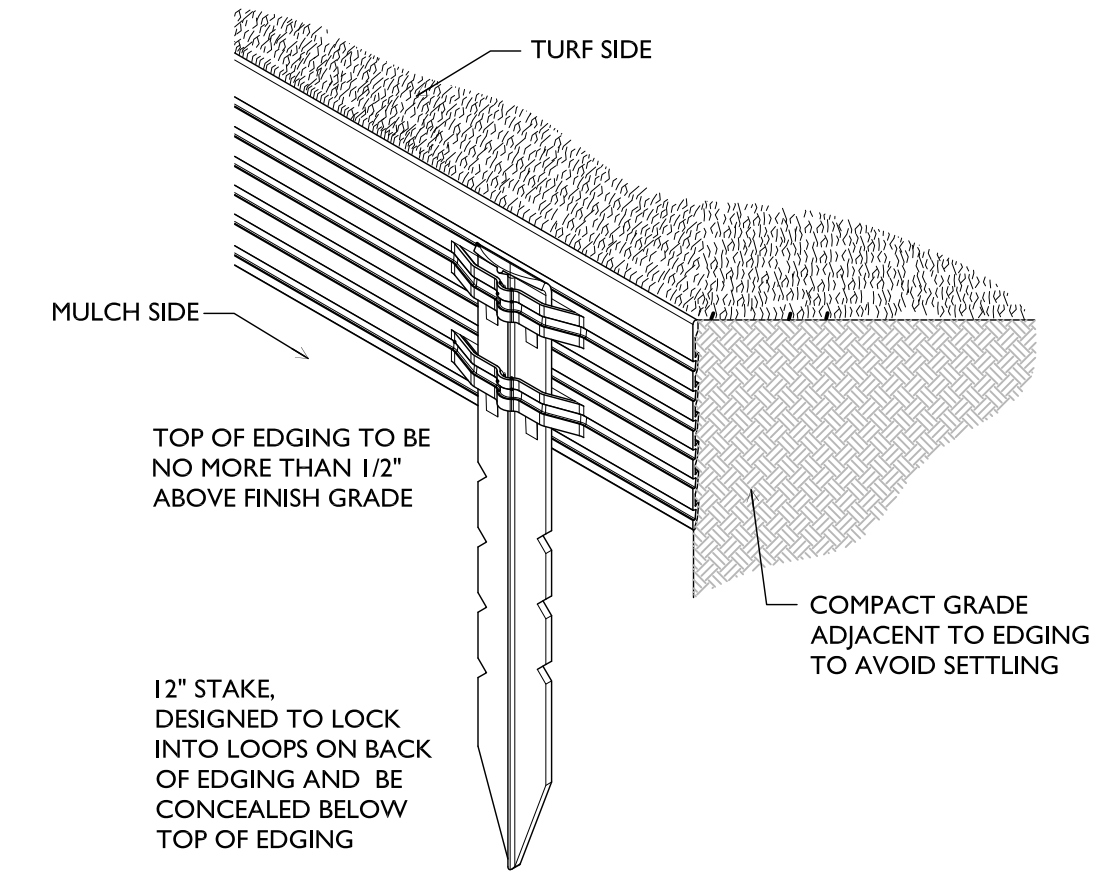




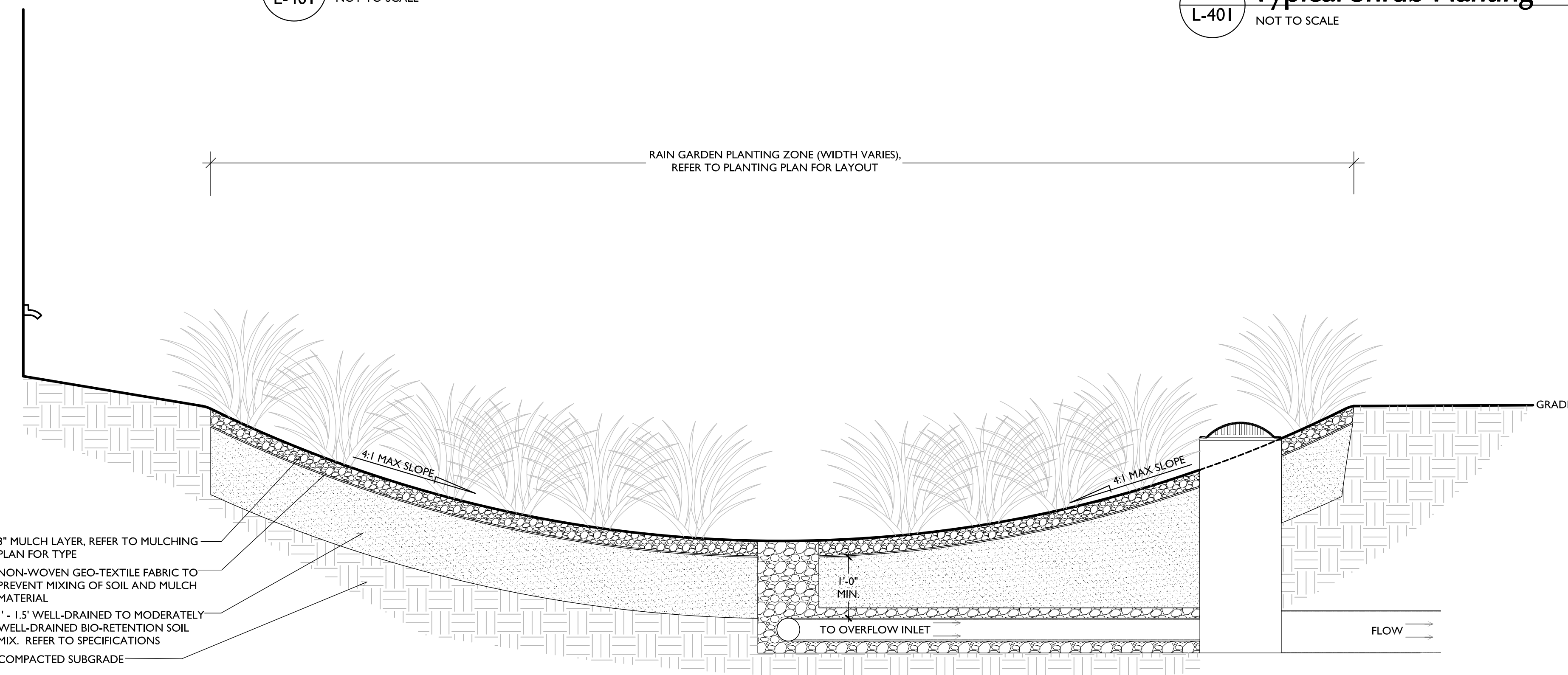
1 Typical Tree Planting  
L-401 NOT TO SCALE



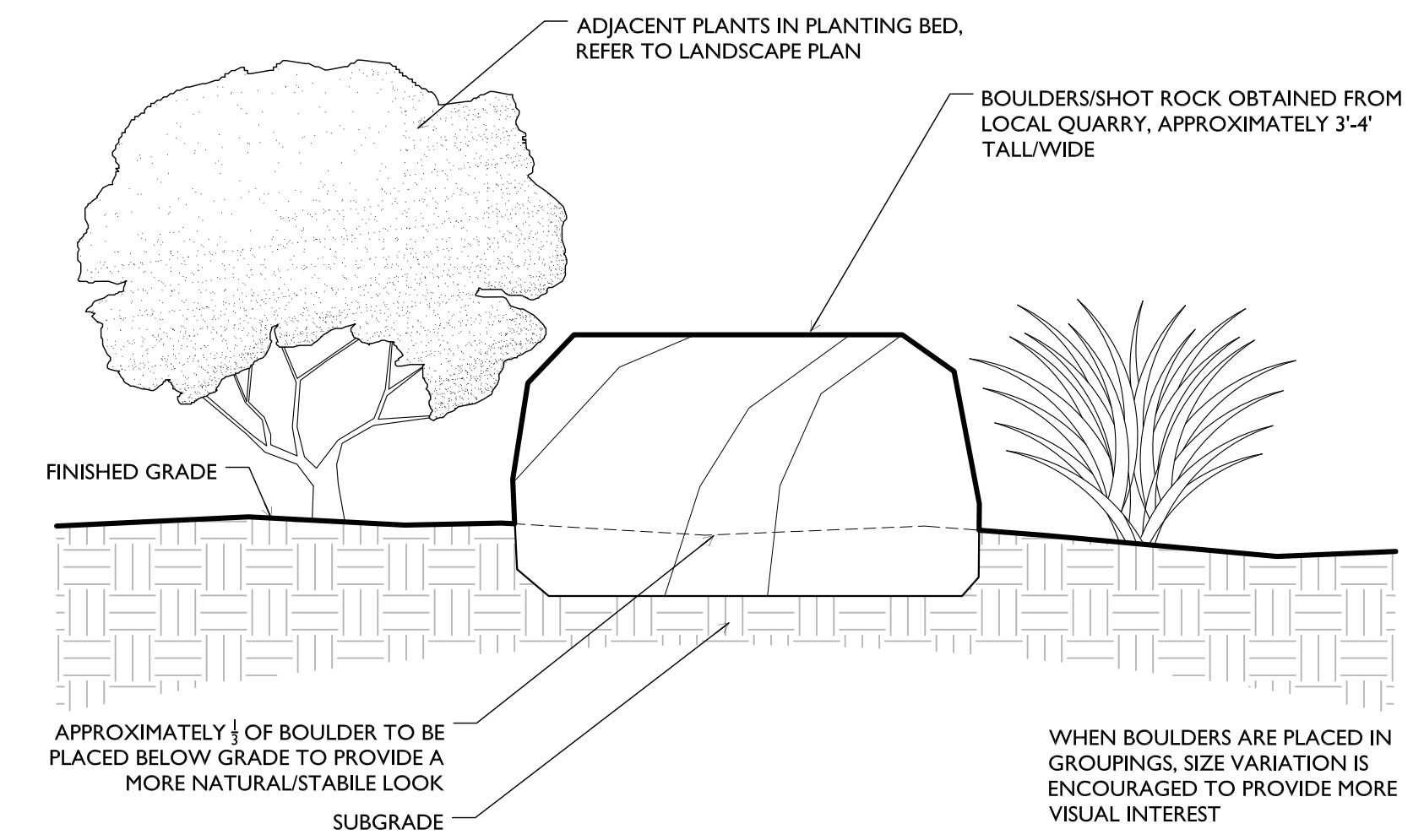
2 Typical Shrub Planting  
L-401 NOT TO SCALE



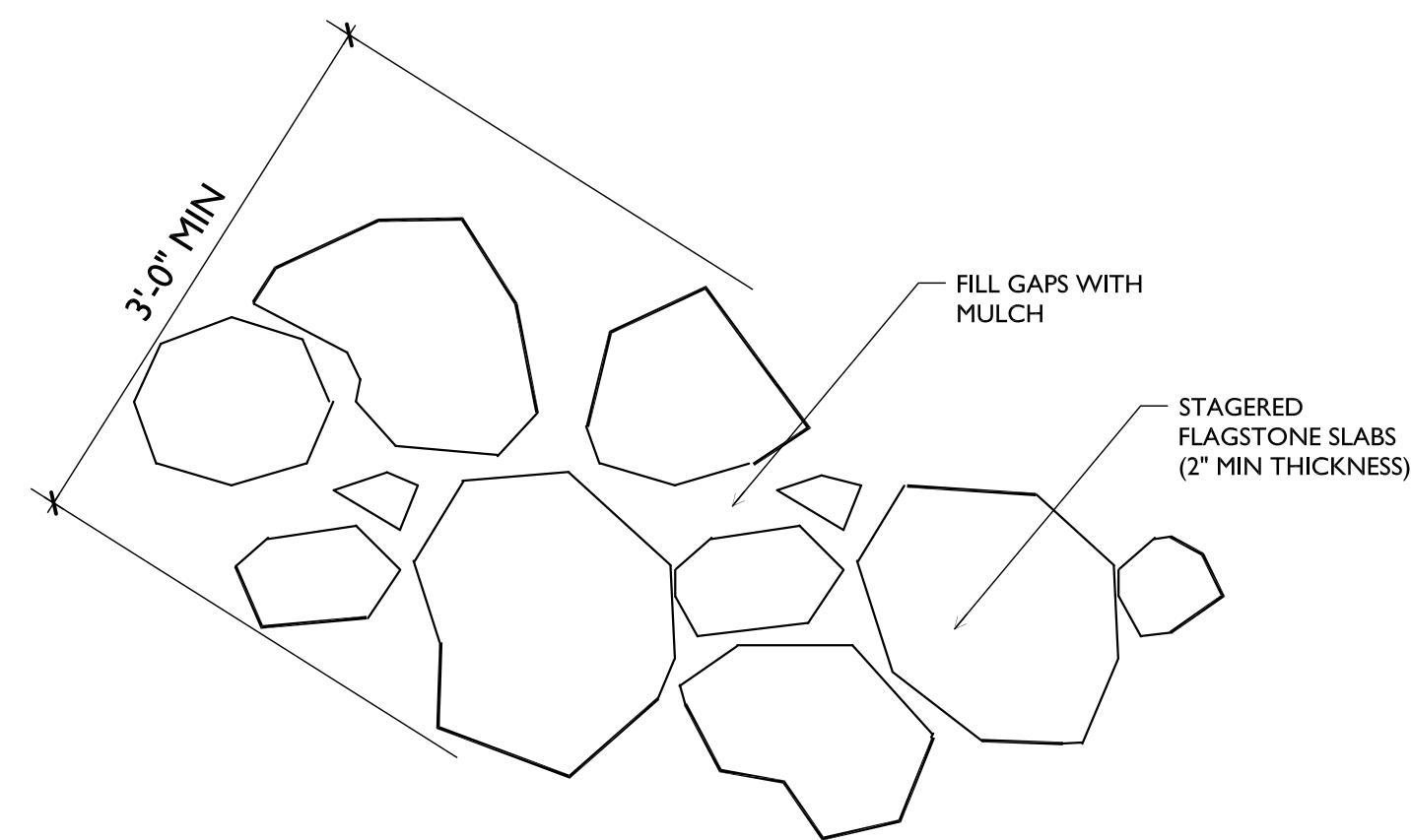
3 Aluminum Landscape Edging  
L-401 NOT TO SCALE



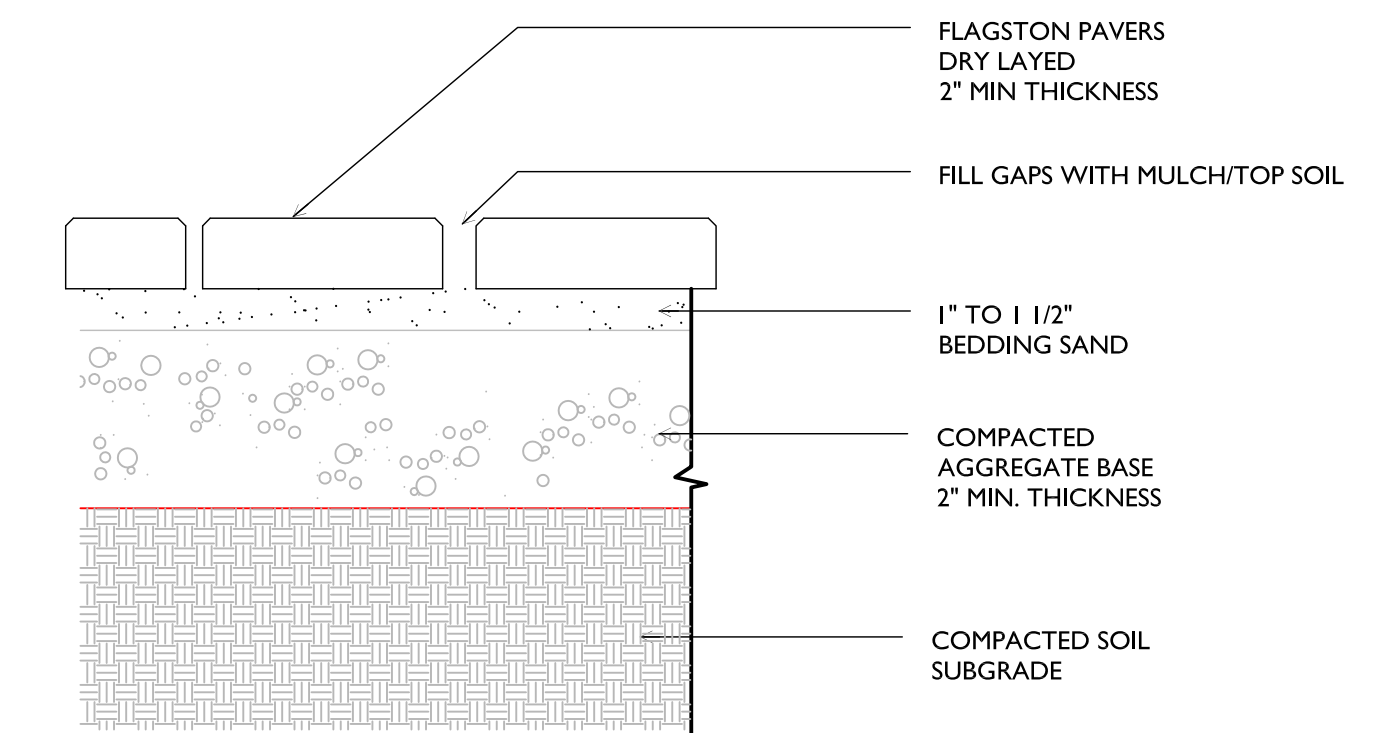
4 Typical Rain Garden Materials Section  
L-401 NOT TO SCALE



5 Boulder Placement  
L-401 NOT TO SCALE



6 Hand Laid Flagstone Path (Plan)  
L-401 NOT TO SCALE



7 Hand Laid Flagstone Path (Section)  
L-401 NOT TO SCALE

NOTE: THIS DRAWING IS INTENDED TO BE PLOTTED IN COLOR. IF THIS SHEET APPEARS IN BLACK AND WHITE, IT IS PLOTTED INCORRECTLY. DISCARD AND OBTAIN AN ACCURATE DRAWING

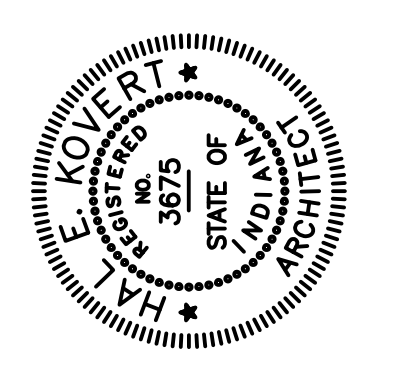
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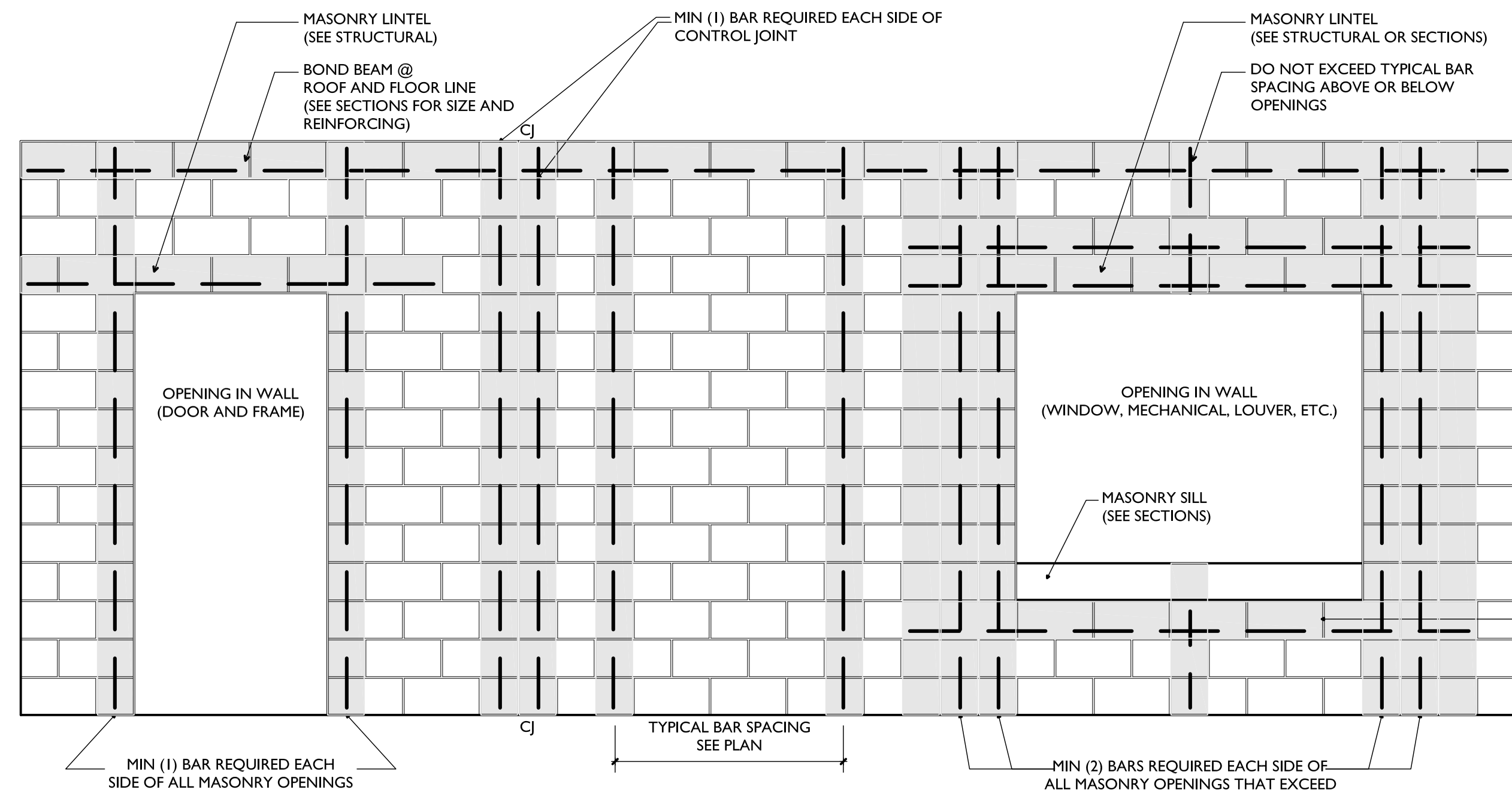
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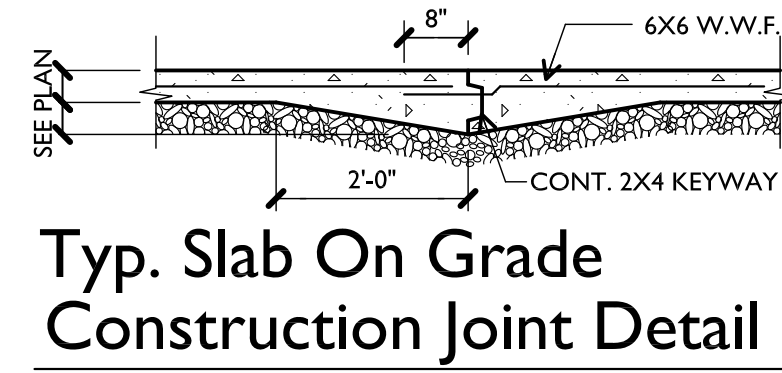




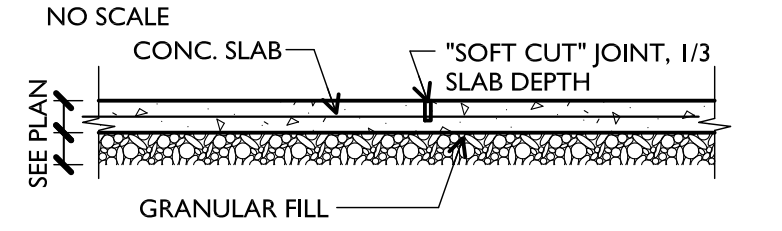
**Typ. Masonry Wall Reinforcing Detail**

SCALE: 1/2"=1'-0"

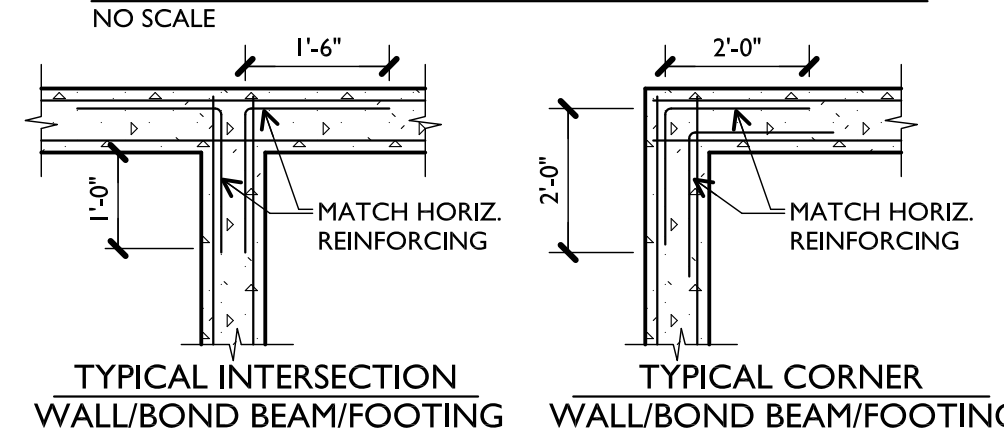
SEE SECTIONS FOR BOND BEAM; IF NOT SHOWN, PROVIDE 8" BOND BEAM WITH (2) #5 BARS BELOW ALL OPENINGS; BOND BEAM SHALL EXTEND 2'-0" BEYOND EACH SIDE OF OPENING



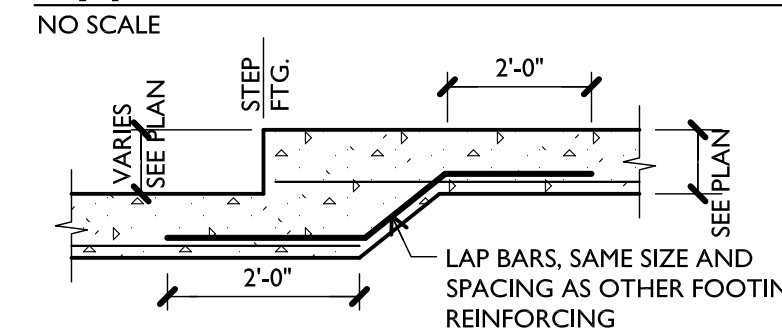
**Typ. Slab On Grade Construction Joint Detail**



**Typ. Slab On Grade Control Joint Detail**

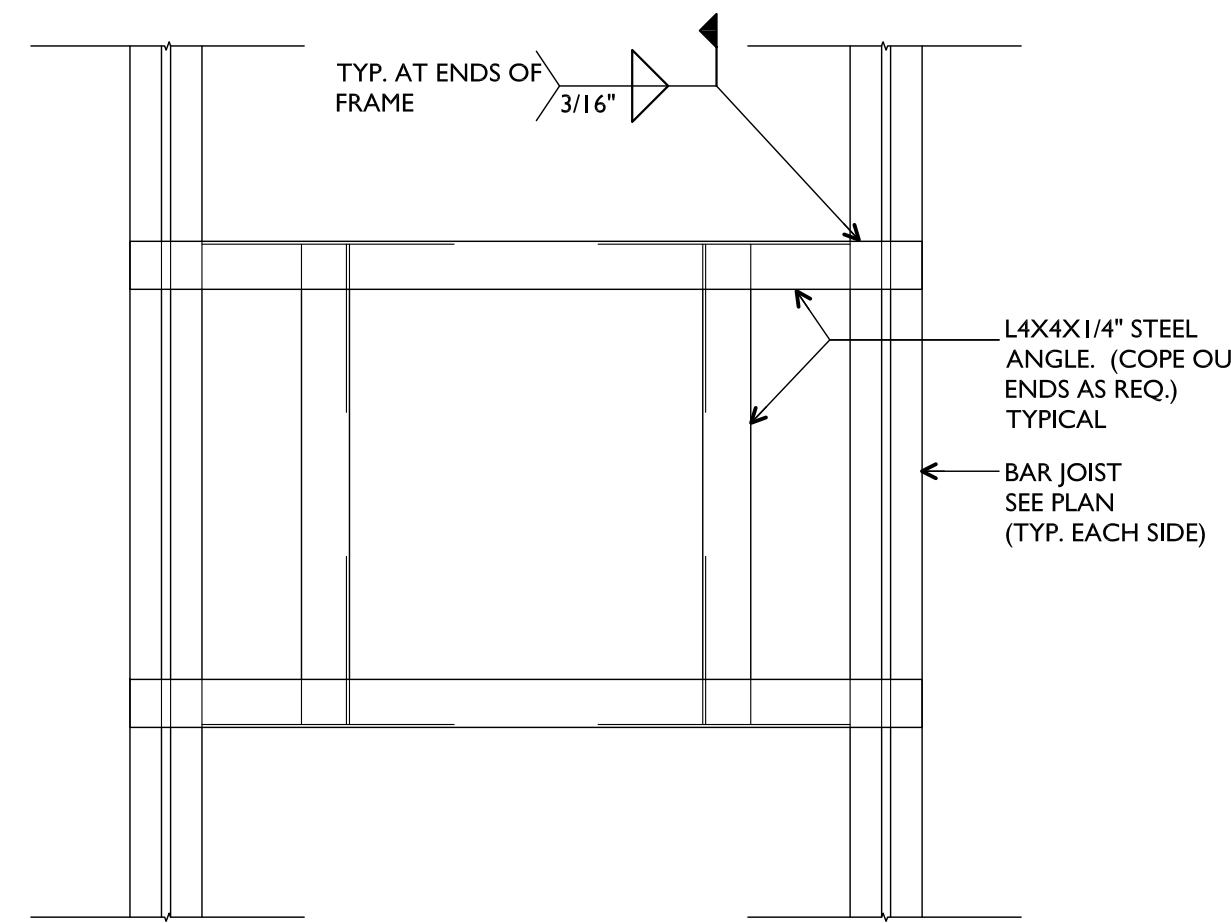


**Typ. Corner Bar Details**



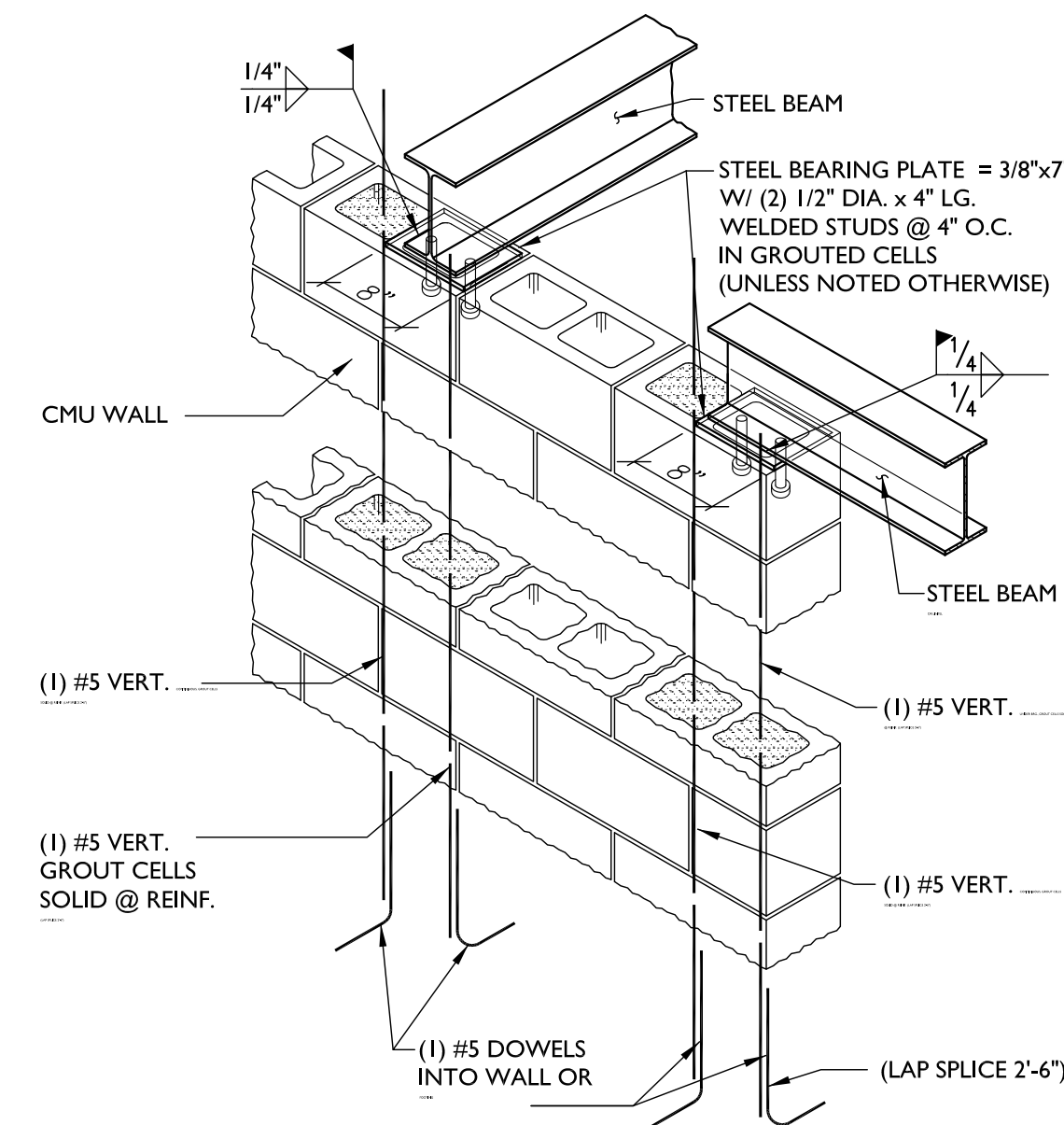
**Typ. Step Ftn. Detail**

NO SCALE



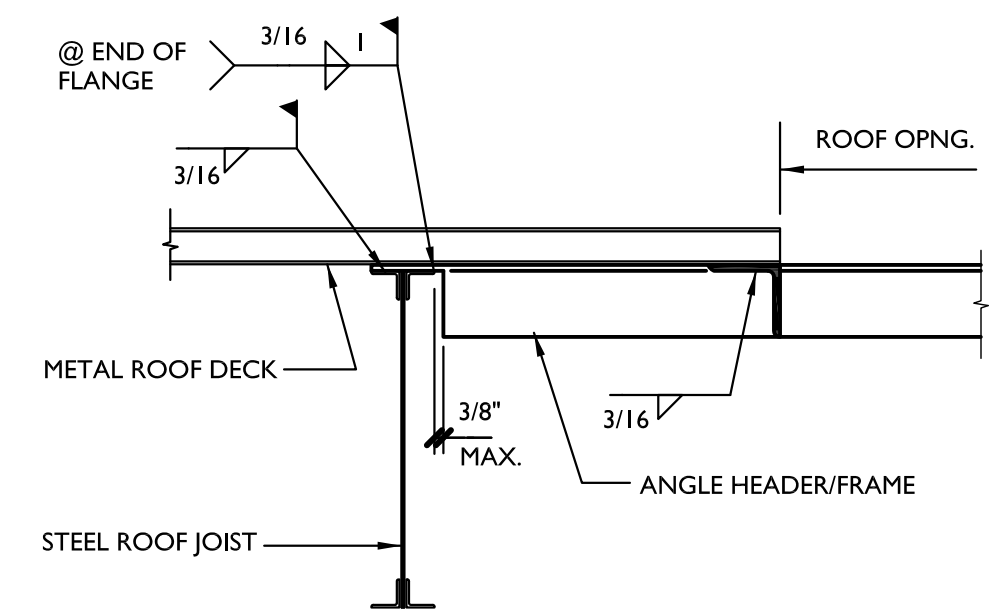
**Typical Framing Under RTU & At Roof Opening Plan**

SCALE: 3/4" = 1'-0"



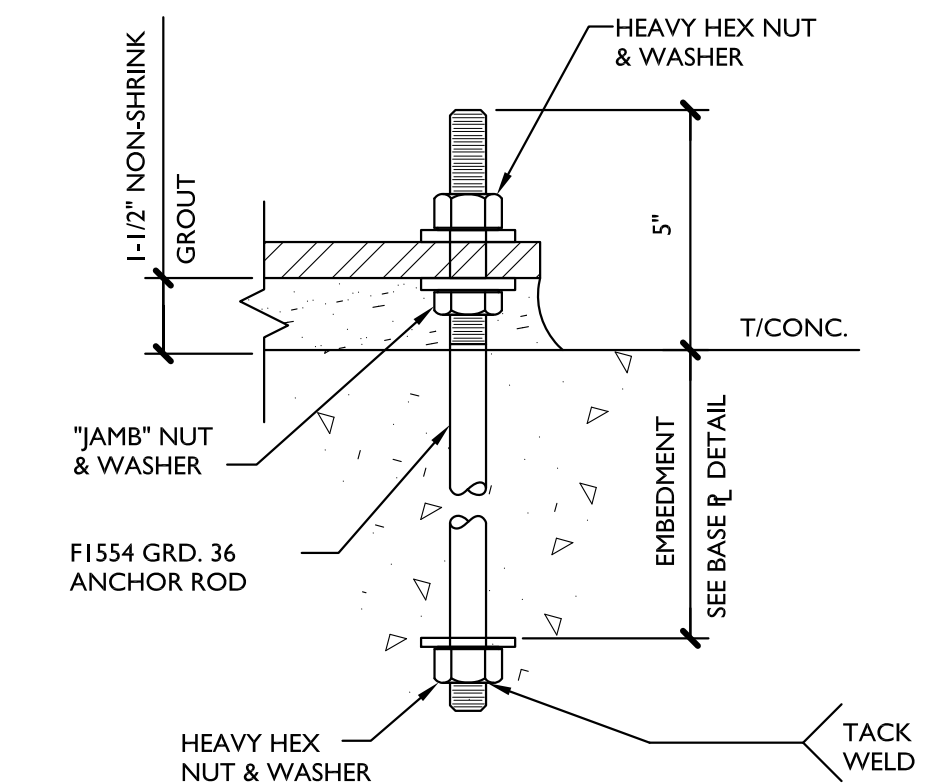
**Typ. Beam Bearing Detail**

SCALE: 3/4"=1'-0"



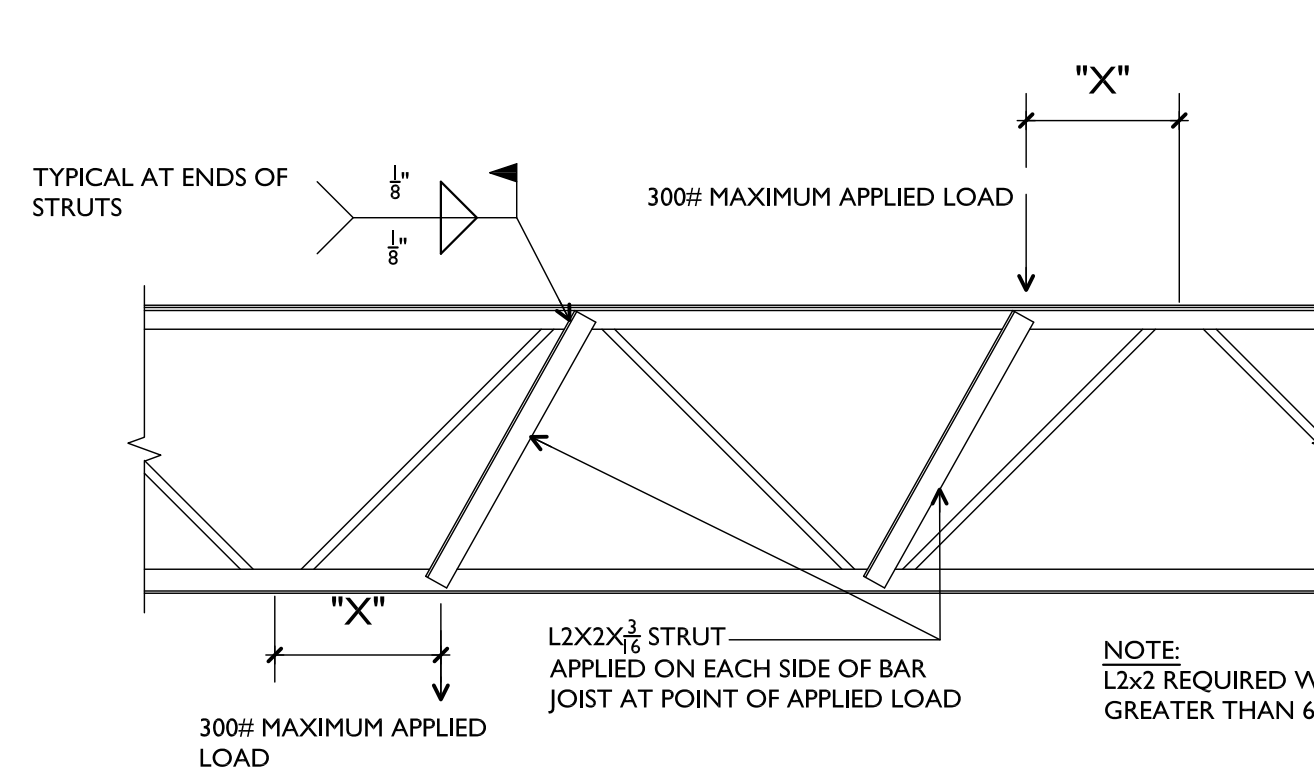
**Typical Frame Under RTU & At Roof Opening**

N.T.S.



**TYPICAL ANCHOR ROD DETAIL**

SCALE: 3" = 1'-0"



**Typical Joist Strut at Applied Load**

SCALE: NONE

**REINFORCEMENT LAP SPLICE LENGTH (GRADE 60 REINFORCEMENT)**

THE FOLLOWING LAP SPLICE SHALL BE PROVIDED FOR REINFORCEMENT; UNLESS NOTED OTHERWISE

	4000 PSI CONCRETE		MASONRY
	TOP BARS	OTHERS	
#3	24"	19"	18"
#4	32"	25"	24"
#5	40"	31"	30"
#6	48"	37"	36"
#7	70"	54"	42"
#8	80"	62"	48"
#9	91"	70"	55"
#10	102"	79"	--
#11	113"	87"	--

(TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 IN. OF CONCRETE CAST BELOW THE BARS)

NOTE: ALL WELDED WIRE FABRIC LAP SPLICES SHALL BE ONE SPACE PLUS 2" (i.e. W.W.F. 6x6 = 8" SPLICE)

**CONCRETE PROTECTION FOR REINFORCEMENT IN CAST-IN-PLACE CONCRETE**

THE FOLLOWING CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT; UNLESS NOTED OTHERWISE

	COVER	INCHES
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH		3
CONCRETE EXPOSED TO EARTH OR WEATHER		
#6 THROUGH #18 BARS		2
#5 BAR, W31 OR D31 WIRE, AND SMALLER		1-1/2
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND		
SLABS, WALLS, JOIST:		
#14 AND #18 BARS		1-1/2
#11 BAR AND SMALLER		3/4
BEAMS AND COLUMNS:		
PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS		1-1/2

**MISCELLANEOUS LINTEL (ML) SCHEDULE (FOR LINTELS NOT OTHERWISE SHOWN OR NOTED)**

**BLOCK LINTELS - 8" BEARING EACH END**

3'-0" SPAN AND LESS: 8" DEEP BOND BEAM WITH (2) #5 BARS AT BOTTOM  
 3'-1" SPAN TO 7'-0" SPAN: 16" DEEP BOND BEAM WITH (2) #5 BARS TOP & BOTTOM  
 7'-1" SPAN TO 11'-0" SPAN: 16" DEEP BOND BEAM WITH (2) #6 BARS TOP & BOTTOM

**STEEL LINTELS**

PROVIDE ONE ANGLE FOR EVERY FOUR INCHES OF WALL THICKNESS

8" WALL = 2 ANGLES  
 12" WALL = 3 ANGLES  
 16" WALL = 4 ANGLES

4'-0" WIDE AND LESS USE ANGLE: 4 x 3-1/2 x 5/16 8" BEARING EACH END  
 4'-1" WIDE TO 6'-0" USE ANGLE: 5 x 3-1/2 x 5/16 8" BEARING EACH END  
 6'-1" WIDE TO 9'-0" USE ANGLE: 6 x 3-1/2 x 5/16 8" BEARING EACH END  
 9'-1" WIDE TO 11'-0" USE ANGLE: 6 x 3-1/2 x 3/8 12" BEARING EACH END

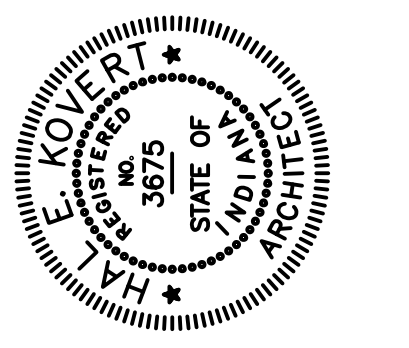
PROVIDE STAINLESS OR GALVANIZED STEEL WHERE LINTELS ARE EXPOSED TO WEATHER, COORDINATE WITH ARCHITECTURAL DRAWINGS AND DETAILS

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Structural Design Notes  
STRUCTURAL DESIGN CRITERIA

- APPLICABLE BUILDING CODES:
  - 2014 INDIANA BUILDING CODE
  - 2012 INTERNATIONAL BUILDING CODE
  - ASCE STANDARD: ASCE 7-10
- PROJECT LOCATION: CLARKSVILLE, INDIANA (CLARK COUNTY)
- DESIGN LOADS:
  - FLOOR LIVE LOADS  
SLABS ON GRADE ..... 150 PSF
  - ROOF LOAD ..... 20 PSF
  - SNOW LOADS
- GROUND SNOW LOAD:  $P_g = 20$  PSF  
FLAT-ROOF SNOW LOAD:  $P_f = 15$  PSF  
SNOW EXPOSURE FACTOR:  $C_e = 1.0$   
THERMAL FACTOR:  $C_t = 1.0$   
SNOW LOAD IMPORTANCE FACTOR:  $I_s = 1.0$
- WIND LOADS:
  - BASIC WIND SPEED (ULTIMATE) = 115 MPH (3-SECOND GUSTS)
  - WIND IMPORTANCE FACTOR:  $I_w = 1.0$
  - EXPOSURE CATEGORY: B
  - DESIGN WIND PRESSURE (WORKING STRESS) FOR COMPONENTS AND CLADDING:  $P = 11.63$  PSF (INTERIOR ZONE) & 21.22 PSF (EDGE STRIP)
  - DESIGN WIND PRESSURE (WORKING STRESS) FOR MAIN WINDFORCE RESISTING SYSTEM:  $P = 15$  PSF
- EARTHQUAKE LOADS:
  - OCCUPANCY CATEGORY: II
  - MAPPED SPECTRAL RESPONSE ACCELERATION:  $S_a = 0.273$ ,  $S_1 = 0.11$ ,  $0.05$
  - SEISMIC DESIGN CATEGORY C
  - SITE CLASS D
  - RESPONSE MODIFICATION FACTOR,  $R = 2.0$
  - SYSTEM OVER STRENGTH FACTOR = 2.5
  - DEFLECTION AMPLIFICATION FACTOR  $C_d = 2.0$
  - SEISMIC IMPORTANCE FACTOR = 1.00
  - ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
  - SPECTRAL RESPONSE COEFFICIENTS  $S_D = 0.291$ ,  $S_1 = 0.176$
  - $C_s = 0.145$
  - DESIGN BASE SHEAR =  $C_s \times W$
  - BASIC STRUCTURAL SYSTEM: ORDINARY REINFORCED MASONRY SHEAR WALLS.

FOUNDATIONS

- ASSUMED ALLOWABLE SOIL BEARING PRESSURE:
  - CONTINUOUS WALL FOOTINGS ..... 1,500 PSF
  - ISOLATED COLUMNS FOOTINGS ..... 1,500 PSF
- FOUNDATIONS HAVE BEEN SIZED IN ACCORDANCE WITH THE ASSUMED BEARING PRESSURES STATED ABOVE. THE CONTRACTOR SHALL EMPLOY A QUALIFIED GEOTECHNICAL ENGINEER TO VERIFY THAT THE SOIL IS CAPABLE OF PROVIDING THE ASSUMED BEARING PRESSURE. IF THE SOIL IS FOUND TO NOT PROVIDE THE ASSUMED BEARING PRESSURE, THE ARCHITECT/ENGINEER SHALL BE NOTIFIED FOR RE-EVALUATION OF THE FOOTING DESIGN.
- THE CONTRACTOR SHALL PERFORM ALL EARTHWORK OPERATIONS AND FOUNDATION INSTALLATION OPERATIONS IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
- PRIOR TO CONSTRUCTION OF ANY PERMANENT STRUCTURE, ALL EXISTING SURFACE FILL, ALL TOPSOIL AND ORGANIC MATERIAL, ALL WET, SOFT, LOOSE, OR UNDESIRABLE SOIL, AND ALL OLD ABANDONED CONCRETE SHALL BE REMOVED TO THE EXTENT RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
- CONCRETE FOR FOOTINGS SHALL BE PLACED THE SAME DAY EXCAVATIONS ARE OPENED. IF THIS IS IMPOSSIBLE, STEPS SHALL BE TAKEN TO ADEQUATELY PROTECT THE OPEN EXCAVATION.
- FOOTINGS AND SLABS ON GRADE SHALL BEAR ON FIRM NATURAL SOIL, OR ON PROPERLY COMPACTED ENGINEERED FILL AS RECOMMENDED IN THE GEOTECHNICAL ENGINEER.
- ENGINEERED FILL & BACKFILL SHALL BE PLACED AND COMPACTED ACCORDING TO THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
- THE GEOTECHNICAL ENGINEER SHALL INSPECT ALL BEARING SURFACES AND EARTHWORK OPERATIONS.
- ALL FOOTING INSTALLATION SHALL BE OBSERVED AND DOCUMENTED BY THE GEOTECHNICAL ENGINEER (INSPECTOR) TO ASSURE THAT THE DESIGN CRITERIA ARE BEING OBTAINED. ALL GEOTECHNICAL FIELD REPORTS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER.
- PROVIDE CONTROL JOINTS IN SLAB ON GRADE AT MAXIMUM 20 FEET SPACING EACH DIRECTION, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL SUBMIT A SLAB JOINT PLAN FOR APPROVAL PRIOR TO PLACING CONCRETE FOR FLOOR SLAB (SEE CONCRETE GENERAL NOTE NO. 12).

CONCRETE

- ALL CONCRETE FOR GENERAL USE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
- REINFORCING STEEL SHALL BE AS FOLLOWS:  
STIRRUPS AND TIES ..... ASTM A615 GRADE 60  
ALL OTHER REINFORCING ..... ASTM A615 GRADE 60  
WELDED WIRE FABRIC ..... ASTM A183
- PROVIDE BAR SUPPORTS AND SPACERS IN ACCORDANCE WITH ACI DETAILING MANUAL. ALL BAR SUPPORTS, IN AREAS WHERE CONCRETE WILL BE EXPOSED, SHALL HAVE PLASTIC FEET. PRECAST CONCRETE (4"=3000psi) BLOCKS 3"x3"x3" SHALL BE USED TO SUPPORT REINFORCING OFF OF THE GROUND. AT ALL OTHER LOCATIONS, CHAIRS OR STANDEES SHALL BE USED.
- DETAILING, FABRICATION AND PLACING OF REINFORCING SHALL CONFORM TO APPLICABLE PROVISIONS OF ACI 315 AND ACI 318.
- SLABS, FOUNDATION WALLS, AND FOOTINGS SHALL HAVE NO HORIZONTAL JOINTS. ANY STOP IN CONCRETE WORK MUST BE MADE WITH VERTICAL KEYS BULKHEADS. ALL REINFORCEMENT SHALL CONTINUE THROUGH JOINTS.
- BEFORE PLACING CONCRETE, THE CONTRACTOR SHALL NOTIFY ALL SUBCONTRACTORS TO BE SURE ALL SLEEVES, CONDUIT, CHASES, ETC. ARE PROPERLY INSTALLED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AS SOON AS PRACTICAL, BUT AT LEAST 24 HOURS PRIOR TO PLACING CONCRETE TO ALLOW FOR INSPECTION OF REINFORCING AND EMBEDDED ITEMS.
- MATERIALS SHALL COMPLY WITH REQUIREMENTS OF DESIGNATED SPECIFICATIONS OF AMERICAN SOCIETY FOR TESTING AND MATERIALS, 1916 RACE STREET, PHILADELPHIA, PENNSYLVANIA.
- CONSTRUCTION PROCEDURES SHALL COMPLY WITH RECOMMENDATIONS SET FORTH IN DESIGNATED STANDARDS OF AMERICAN CONCRETE INSTITUTE, P.O. BOX 9094, FARMINGTON HILLS, MICHIGAN 48333.
- ADMIXTURE OTHER THAN AIR-ENTRAINING SHALL NOT BE USED WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER. AIR-ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C260.
- CURING COMPOUND SHALL CONFORM TO FEDERAL SPECIFICATION TT-C800A, AND A.S.T.M. C309. THE MATERIAL SHALL BE EQUAL TO SONNEBORN KUR-N-SEAL, MASTERSSEAL, BY MASTER BUILDERS, OR CLEAR SEAL, BY W.R. GRACE.
- ALL VERTICAL CONCRETE SURFACES SHALL BE FORMED. HOWEVER, VERTICAL SURFACES OF FOOTINGS MAY BE EARTH-FORMED IF THE SOIL IS SUFFICIENTLY STIFF TO PREVENT CAVE-INS.
- ALL CONCRETE SLABS SUPPORTED BY SOIL OR GRANULAR SUB-BASE SHALL CONTAIN CONTROL JOINTS AND CONSTRUCTION JOINTS AS SPECIFIED BY THE ARCHITECT, AT SPACINGS NOT TO EXCEED 20 FEET ON CENTER IN BOTH DIRECTIONS. SAW-CUT JOINTS SHALL BE INSTALLED AS SOON AS THE CONCRETE IS HARD ENOUGH TO WITHSTAND SAWING WITHOUT RAVELING JOINT EDGES OR DISLODGING COARSE AGGREGATE PARTICLES. LIGHTWEIGHT EARLY-CUT SAWS SHALL BE USED. CONTRACTOR SHALL SUBMIT CONSTRUCTION AND CONTROL JOINT LAYOUT TO THE ARCHITECT FOR APPROVAL PRIOR TO PLACING CONCRETE SLABS.

REINFORCED MASONRY

- COMPRESSIVE STRENGTH OF CONCRETE MASONRY SHALL BE  $F_m = 1500$  PSI.
- GROUT FOR BOND BEAMS AND GROUTED CELLS IN CONCRETE MASONRY UNITS SHALL BE PEA GRAVEL CONCRETE WITH A 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI.
- MORTAR FOR CONCRETE MASONRY SHALL BE TYPE S.
- PROVIDE CONTINUOUS HORIZONTAL JOINT REINFORCING IN ALL REINFORCED MASONRY WALLS AT 16 INCHES ON CENTER UNLESS NOTED OTHERWISE.
- SPICES IN VERTICAL REINFORCEMENT SHALL BE LAPPED A MINIMUM OF 48 BAR DIAMETERS, UNLESS NOTED OTHERWISE.
- ALL MASONRY WALLS SHALL BE LATERALLY BRACED BY THE CONTRACTOR UNTIL ALL STRUCTURAL FRAMING AND DECKING HAVE BEEN INSTALLED IN UNITS OF CONSTRUCTION ADJACENT TO THE WALLS.
- A BOND BEAM WITH (2) #5 BARS SHALL BE PROVIDED AT THE TOP OF ALL WALLS. AT THE BEARING ELEVATION OF BAR JOISTS, AND AT LOCATIONS AS INDICATED ON THE PLANS, UNLESS NOTED OTHERWISE.
- ALL CMU UNITS LOCATED BELOW GRADE SHALL BE GROUTED SOLID.
- ALL CMU UNITS LOCATED AT EXPANSION ANCHORS AND ADHESIVE ANCHORS SHALL BE GROUTED SOLID A MINIMUM 16 INCHES EACH SIDE OF THE ANCHOR.
- AT BEAMS OR LINTELS BEARING ON MASONRY WALLS, UNLESS DETAILED OR NOTED OTHERWISE, FILL TWO BLOCK CORES SOLID WITH GROUT AND REINFORCE EACH CORE WITH ONE #5 VERTICAL REBAR FULL HEIGHT OF WALL.
- UNLESS OTHERWISE SHOWN OR NOTED, PROVIDE A 7-1/2 INCH x 12 INCH x 3/8 INCH BEARING PLATE WITH (2) 1/2 INCH DIAMETER X 4 INCH LONG HEADED STUDS EMBEDDED INTO GROUTED CORES AT ALL BEAMS BEARING ON MASONRY WALLS.
- UNLESS OTHERWISE SHOWN OR NOTED, PROVIDE A 7-1/2 INCH x 7-1/2 INCH x 3/8 INCH BEARING PLATE WITH (2) 1/2 INCH DIAMETER X 4 INCH LONG HEADED STUDS EMBEDDED INTO GROUTED BOND BEAM AT ALL JOISTS BEARING ON MASONRY WALLS.
- UNLESS OTHERWISE SHOWN OR NOTED, PLACE (1) #5 FULL-HEIGHT VERTICAL REINFORCING BAR AT ALL WALL CORNERS, ENDS OF WALLS, SIDES OF OPENINGS, AND WALL INTERSECTIONS. (PLACE 2) #5 BARS AT SIDES OF OPENINGS 10 FEET WIDE AND GREATER.
- PROVIDE VERTICAL CONTROL JOINTS IN ALL REINFORCED MASONRY WALLS AT SPACINGS APPROXIMATELY EQUAL TO THE HEIGHT OF THE WALL. LOCATIONS OF JOINTS SHALL BE COORDINATED WITH AND APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.
- ALL VERTICAL REINFORCING STEEL IN CMU WALLS SHALL BE SECURED IN PLACE WITH DUR-O-WALL REBAR POSITIONERS (OR APPROVED EQUAL).

STRUCTURAL STEEL

- ALL ROLLED STEEL PLATES, SHAPES (EXCLUDING WIDE FLANGE SHAPES), BARS AND MISCELLANEOUS ITEMS SHALL BE STRUCTURAL QUALITY CARBON STEEL COMPLYING WITH ASTM A36 (MINIMUM YIELD 36,000 PSI). WIDE FLANGE SHAPES SHALL BE STRUCTURAL QUALITY CARBON STEEL COMPLYING WITH ASTM A992 (MINIMUM YIELD 50,000 PSI).
- HOLLOW STRUCTURAL SECTIONS (HSS) SHALL COMPLY WITH ASTM A500, GRADE B (MINIMUM YIELD 46 KSI FOR SQUARE AND RECTANGULAR SECTIONS AND 42 KSI FOR ROUND SECTIONS).
- ALL BOLTED CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER ASTM F1552, TYPE 1 TWIST-OFF-TYPE TENSION-CONTROL BOLTS IN BEARING-TYPE CONNECTIONS.
- ANCHOR RODS SHALL COMPLY WITH ASTM F1554, GRADE 36.
- EXPANSION ANCHORS IN GROUTED CMU SHALL BE HILTI CARBON STEEL KWIK BOLT 3 (K83) ANCHOR MANUFACTURED BY HILTI FASTENING SYSTEMS, OR APPROVED EQUAL.
- ADHESIVE ANCHORS SHALL CONSIST OF HILTI HAS-E STEEL ANCHOR RODS EMBEDDED IN HILTI HIT HY 200 ADHESIVE IN CONCRETE AND EMBEDDED IN HILTI HIT-HY70 IN GROUTED CMU SUPPLIED BY HILTI FASTENING SYSTEMS, OR APPROVED EQUAL. INSTALL IN ACCORDANCE WITH THE SUPPLIER'S RECOMMENDATIONS.
- ALL WELDING SHALL BE PERFORMED BY WELDERS CERTIFIED TO PERFORM EACH TYPE OF WELD REQUIRED. ALL WELDS AND WELDING PROCEDURES SHALL COMPLY WITH AWS D1.1, USING E70XX ELECTRODES UNLESS NOTED OTHERWISE. ALL WELDS SHALL BE INSPECTED.
- WELD SIZES NOT SHOWN ON DESIGN DRAWINGS SHALL BE MINIMUM SIZE REQUIRED BY AWS D1.1 (LATEST EDITION) ACCORDING TO THE MATERIAL THICKNESS BEING WELDED. ALL WELDS SHALL BE PRE-QUALIFIED PER AWS D1.1 (LATEST EDITION).
- STEEL FRAMEWORK SHALL NOT BE ASSUMED STRUCTURALLY STABLE UNTIL ALL MEMBERS ARE IN PLACE AND CONNECTIONS ARE INSTALLED. ANY USE OF THE PARTIALLY ERECTED FRAMEWORK FOR TEMPORARY SUPPORT OF ANY KIND SHALL BE DONE ONLY AT THE CONTRACTOR'S RISK.
- COMPLY WITH THE PROVISIONS OF THE LATEST EDITIONS OF THE FOLLOWING CODES, SPECIFICATIONS AND STANDARDS, EXCEPT AS OTHERWISE SHOWN OR SPECIFIED HEREIN:
  - A.I.S.C. "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"
  - A.I.S.C. "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS"
  - A.I.S.C. "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS"
  - AWS "STRUCTURAL WELDING CODE"
- THE CONTRACTOR SHALL BE LIABLE FOR DIMENSIONS, FIT, TOLERANCES, FABRICATION, AND ERECTION OF ALL STRUCTURAL STEEL ELEMENTS.
- SIMPLE SPAN CONNECTIONS FOR BEAMS SHALL CONSIST OF STANDARD DOUBLE-ANGLE BOLTED AND/OR WELDED CONNECTIONS, AND SHALL BE DESIGNED FOR ONE-HALF THE BEAM LOAD CAPACITY AS GIVEN IN AISC TABLE 3-6 "MAXIMUM TOTAL UNIFORM LOAD" (AISC MANUAL, 13TH EDITION).
- LENGTH OF CONNECTION ANGLES FOR BEAM-TO-COLUMN OR BEAM-TO-BEAM CONNECTIONS SHALL BE THE LARGEST STANDARD LENGTH LESS THAN OR EQUAL TO THE "T" DIMENSION OF THE BEAM. STANDARD LENGTHS AND AVAILABLE STRENGTH OF CONNECTION ANGLES ARE FOUND IN "A.I.S.C. MANUAL OF STEEL CONSTRUCTION" (13TH EDITION), TABLES I0-1 THROUGH I0-3.
- PROVIDE VERTICAL WEB STIFFENERS ON EACH SIDE OF WEB OF BEAM AT ALL POINTS SUBJECT TO CONCENTRATED LOADS, SUCH AS COLUMN RESTING ON BEAM AND BEAM FRAMING INTO A BEAM. THE STIFFENERS SHALL EXTEND TO FULL DEPTH OF BEAM AND THE BOUNDARY OF FLANGE WITH MINIMUM THICKNESS OF 3/8".
- NATURAL MILL CAMBER EXISTING IN BEAMS SHALL BE TURNED POSITIVE UPWARD.
- BURNING OF HOLES IN STRUCTURAL STEEL IS NOT PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER OF RECORD.
- MAINTAIN WORK IN A SAFE AND STABLE CONDITION DURING ERECTION. PROVIDE TEMPORARY SHORING AND BRACING MEMBERS AS REQUIRED, WITH CONNECTIONS OF SUFFICIENT STRENGTH TO BEAR IMPOSED LOADS. REMOVE TEMPORARY MEMBERS AND CONNECTIONS WHEN PERMANENT MEMBERS ARE IN PLACE AND FINAL CONNECTIONS ARE MADE. PROVIDE TEMPORARY GUY LINES TO ACHIEVE PROPER ALIGNMENT AND STABILITY OF THE STRUCTURE AS ERECTION PROCEEDS.
- HIGH STRENGTH BOLTED CONNECTIONS AND WELDED CONNECTIONS SHALL BE INSPECTED BY AN INDEPENDENT TESTING LABORATORY. ALL COMPLETE-PENETRATION WELDS SHALL BE ULTRASONICALLY TESTED BY A QUALIFIED INSPECTOR. INSPECTION AND TESTING WILL BE PAID FOR BY THE OWNER.
- SHOP PRIME ALL STRUCTURAL STEEL (EXCEPT STEEL THAT IS TO RECEIVE FIREPROOFING) WITH STANDARD RED OXIDE PRIMER TO A MINIMUM OF 2 MIL DRY FILM THICKNESS, UNLESS NOTED OTHERWISE. ALL EXTERIOR EXPOSED STRUCTURAL STEEL SHALL BE HOT-DIPPED GALVANIZED. TOUCH-UP ANY DAMAGED GALVANIZING ON EXTERIOR EXPOSED STRUCTURAL STEEL WITH ZINC CHROMATE PAINT CONTAINING A MINIMUM 6% ZINC CHROMATE SOLIDS.

STEEL JOISTS

- STEEL JOISTS SHALL MEET ALL REQUIREMENTS OF THE S.J.I. AND A.I.S.C. STANDARD SPECIFICATIONS FOR THE TYPE AND SERIES SHOWN.
- STEEL JOISTS SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH LATEST S.J.I. AND A.I.S.C. SPECIFICATIONS. JOIST DESIGN SHALL BE PERFORMED BY A LICENSED STRUCTURAL ENGINEER.
- DESIGN OF STEEL JOISTS AND THEIR CONNECTIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. SUBMIT SHOP DRAWINGS SEALED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE WHERE THE JOISTS ARE TO BE ERECTED INDICATING THE MANUFACTURER'S NAME, JOIST LAYOUT, AND DETAILS. REVIEW OF SHOP DRAWINGS SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS REGARDING ARRANGEMENT AND SIZES OF MEMBERS AND THE CONTRACTOR'S INTERPRETATION OF THE DESIGN LOADS AND CONTRACT DOCUMENT DETAILS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR THE DESIGN OF THE STEEL JOISTS AND THEIR CONNECTIONS.
- STEEL JOIST MANUFACTURER SHALL DESIGN ROOF JOISTS FOR A NET UPLIFT (DUE TO WIND LOADING) OF 15 PSF. DIAGONAL BRIDGING OR BRACING TO LATERALLY BRACE THE BOTTOM CHORD SHALL BE PROVIDED AS REQUIRED.
- STEEL JOISTS DESIGNATED "SPECIAL" (SPECIAL, NON-STANDARD) SHALL BE DESIGNED BY THE MANUFACTURER FOR THE LOADS INDICATED ON THE DRAWINGS. DESIGN SHALL CONFORM TO AISC AND SJI STANDARD SPECIFICATIONS AND SHALL BE PERFORMED BY A REGISTERED PROFESSIONAL STRUCTURAL ENGINEER.
- BRIDGING SHALL BE FURNISHED AND INSTALLED AS REQUIRED BY THE A.I.S.C. AND SJI STANDARD SPECIFICATIONS AND/OR AS INDICATED ON PLANS. BRIDGE JOIST IMMEDIATELY AFTER ERECTION AND BEFORE CONSTRUCTION LOADS ARE APPLIED.
- THE ENDS OF BRIDGING LINES TERMINATING AT MASONRY WALLS SHALL BE ANCHORED BY STRAP ANCHORS ATTACHED TO THE WALL UNLESS OTHERWISE SHOWN OR NOTED.
- FURNISH AND INSTALL BOTTOM AND TOP CHORD LATERAL BRACING AS REQUIRED FOR STRENGTH AND STABILITY OF JOISTS AND JOIST GRIDERS.
- ENDS OF STEEL JOISTS SHALL BE ANCHORED TO THE STEEL SUPPORTS BY WELDING.
- EXTEND BOTTOM CHORD OF ALL JOISTS ON COLUMN LINES. WELD TO COLUMN AFTER ALL ROOF DEAD LOADS HAVE BEEN APPLIED.
- PROVIDE ADDITIONAL L2X2X1/6 DIAGONALS AND FIELD WELD AT ALL POINTS WHERE EQUIPMENT IS HUNG FROM THE CHORDS OF THE JOISTS. THE ANGLE SHALL EXTEND FROM THE POINT OF LOAD APPLICATION TO THE CLOSEST PANEL POINT IN THE OPPOSITE CHORD MEMBER. SEE TYPICAL DETAIL ON DRAWINGS.
- PROVIDE MISCELLANEOUS ANGLE FRAMING BETWEEN JOISTS AS REQUIRED AT ALL ROOF DRAINS AND MISCELLANEOUS ROOF PENETRATIONS. SEE TYPICAL DETAIL ON DRAWINGS.
- PRIOR TO FABRICATION, SHOP DRAWINGS SHALL BE CHECKED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR REVIEW. SHOP DRAWINGS SHALL INCLUDE JOIST LAYOUT, ERECTION DETAILS, CONNECTION DETAILS, BRIDGING DETAILS, MARK, TYPE AND LOCATION.
- ALL STEEL JOISTS SHALL BE PRODUCED BY AN SJI MEMBER, OR, IF PRODUCER IS NOT AN SJI MEMBER, THEN SHOP DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER LICENSED IN THE STATE WHERE THE JOISTS WILL BE ERECTED, WHO SHALL CERTIFY THAT THE JOISTS ARE DESIGNED AND FABRICATED IN ACCORDANCE WITH THE A.I.S.C. AND SJI SPECIFICATIONS.

METAL ROOF DECK

- METAL ROOF DECK SHALL BE 26 GAUGE GALVANIZED (GR) WITH A FABRICATED DEPTH OF 1 1/2 INCHES AND A VALLEY SPACING OF 4 INCHES. DECKING SHALL BE FACTORY GALVANIZED. DECKING SHALL CONFORM TO ASTM A653-94 STRUCTURAL QUALITY GRADE 33 OR HIGHER. DECKING SHALL BE FASTENED TO STEEL SUPPORTING MEMBERS AT 12 INCHES ON CENTER, MAXIMUM SPACING, WITH NO. 12 SELF-TAPPING METAL SCREWS. SIDE LAP OF ADJACENT UNITS SHALL BE FASTENED WITH NO. 10 METAL SCREWS, AT 12 INCHES ON CENTER, MAXIMUM SPACING. SHEETS SHALL BE CONTINUOUS FOR AT LEAST THREE SPANS WHERE POSSIBLE.
  - COMPLY WITH THE PROVISIONS OF THE LATEST EDITIONS OF THE FOLLOWING CODES, SPECIFICATIONS AND STANDARDS, EXCEPT AS OTHERWISE SHOWN OR SPECIFIED:
    - A.I.S.C. "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS"
    - AWS "STRUCTURAL WELDING CODE"
    - SDI "STEEL DECK DESIGN MANUAL"
  - ACCESSORIES SHALL BE STANDARD WITH THE MANUFACTURER AND SHALL BE FURNISHED AS NECESSARY TO COMPLETE THE ROOF DECK INSTALLATION.
  - PROVIDE MANUFACTURER'S STANDARD 14 GA. GALVANIZED SUMP PANS FOR EACH ROOF DRAIN. COORDINATE TYPE AND LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS.
  - ATTENTION IS CALLED TO THE FACT THAT THE METAL ROOF DECK IS DESIGNED FOR DIAPHRAGM ACTION. THEREFORE, ADDED CARE MUST BE TAKEN TO ASSURE PROPER INSTALLATION PROCEDURES ARE FOLLOWED.
  - A TESTING COMPANY WILL BE RETAINED BY THE OWNER TO ENSURE THAT THE DECK IS FASTENED PROPERLY PRIOR TO PLACEMENT OF COVER MATERIALS. WRITTEN APPROVAL OF DECK INSTALLATION MUST BE SUBMITTED TO THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- CONTRACTOR RESPONSIBILITIES
- MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE.
  - COORDINATE STRUCTURAL DOCUMENTS WITH THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DOCUMENTS. ARCHITECT/STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION.
  - VERIFY THE DIMENSIONS, ELEVATIONS AND SITE CONDITIONS BEFORE STARTING WORK. ANY DISCREPANCY BETWEEN SUCH DETAILS AND DIMENSIONS AS MAY OCCUR SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
  - NOTIFY, IN WRITING, THE STRUCTURAL ENGINEER OF CONDITIONS ENCOUNTERED IN THE FIELD CONTRADICTORY TO THOSE SHOWN IN THE STRUCTURAL DOCUMENTS.
  - CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
  - CONTRACTOR HAS SOLE RESPONSIBILITY FOR THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC.
  - CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA SAFETY REGULATIONS.
  - THE CONTRACTOR SHALL BE AWARE THAT THE WORK INVOLVES ADDITIONS TO AN EXISTING FACILITY THAT WILL IN ANY WAY AFFECT THE NORMAL OPERATION OF THE FACILITY BE COORDINATED WITH THE OWNER.
  - SUBMITTALS

FURNISH ONE SET OF PRINTS AND ONE ELECTRONIC SET OF SHOP DRAWINGS FOR REVIEW. FURNISH THREE COPIES OF OTHER STRUCTURAL SUBMITTALS.

REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTALS AND SHOP DRAWINGS BEFORE SUBMITTING TO THE STRUCTURAL ENGINEER. CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.

MISCELLANEOUS

- SHRINKAGE-RESISTING GROUT FOR USE BENEATH COLUMN BASEPLATES AND BEAM BEARINGS SHALL BE PREMIXED, FACTORY PACKAGED, NON-STAINING, NON-METALLIC, NON-GASING MORTAR GROUTING COMPOUND, COMPLYING WITH THE REQUIREMENTS OF A.S.T.M. C1107. GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 6,000 PSI.
- MATERIAL FOR USE AS VAPOR BARRIER BENEATH CONCRETE SLABS ON GRADE SHALL BE 15 MIL POLYETHYLENE SHEETS, COMPLYING WITH ASTM D-2103. SHEETS SHALL BE LAPPED A MINIMUM OF 6" AT ALL EDGES. SPECIAL CARE SHALL BE TAKEN TO PREVENT PUNCTURING SHEETS PRIOR TO PLACEMENT OF SLABS.
- NO CHANGE IN SIZE OF STRUCTURAL ELEMENTS OR MODIFICATION THEREOF SHALL BE MADE, NOR ARE ANY OPENINGS OR SLEEVES THROUGH ANY STRUCTURAL ELEMENTS PERMITTED, UNLESS DETAILED ON THE DRAWINGS.
- CONSULT ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION, SIZES AND EXTENT OF CHASES, INSERTS, RECESSES, REGELTS, FINISHES, DEPRESSIONS, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- ALL WELDED WIRE FABRIC IN SLABS ON GRADE SHALL BE SUPPORTED BY CHAIRS, BOLTERS, OR OTHER APPROVED SUPPORTING DEVICES SUPPLEMENTAL "PULLING-UP" OF MESH AFTER CONCRETE HAS BEEN PLACED IS REQUIRED TO MAINTAIN MESH AT LOCATION INDICATED ON DRAWINGS.

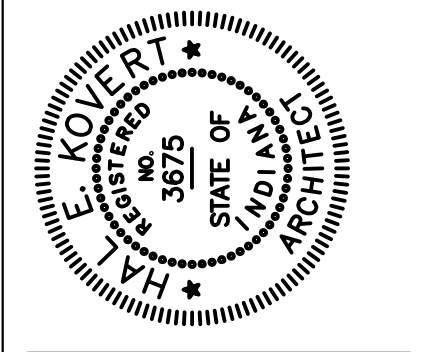
Notice

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Project No: 1723.02  
Date: 12/07/2017

Revisions: 1  
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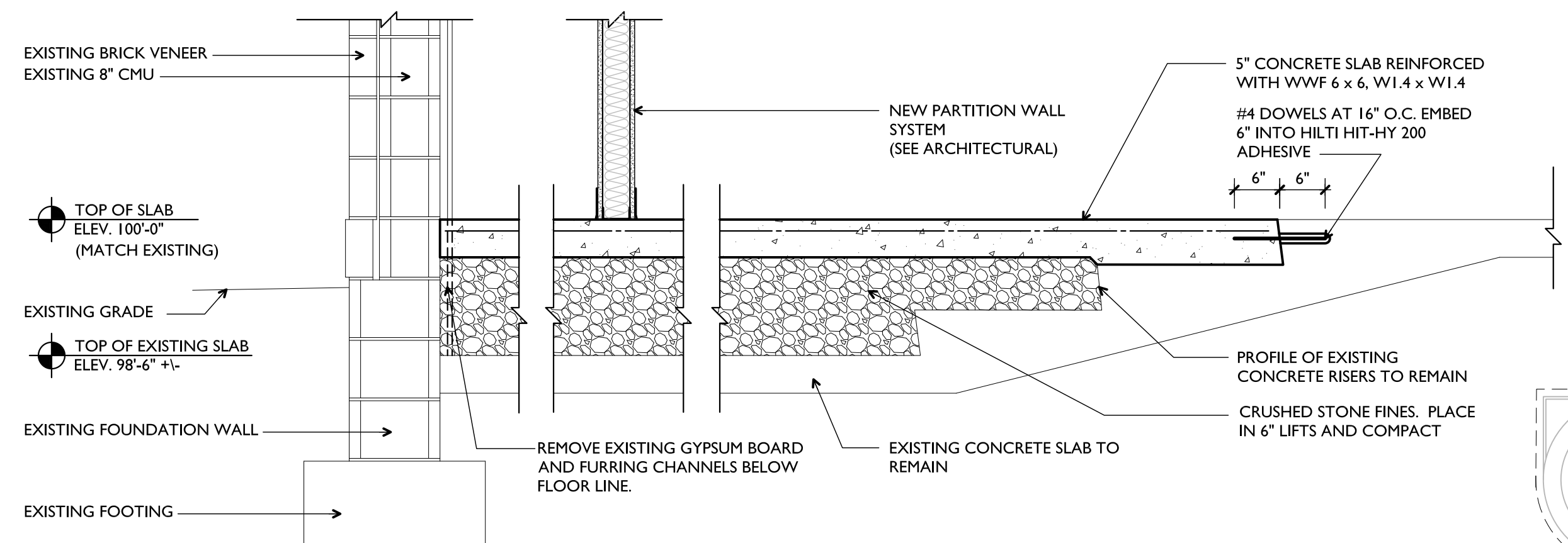


2018 Renovation & Addition  
Clarksville Branch Library  
Jeffersonville Township Public Library  
1312 Eastern Boulevard  
Clarksville, Indiana 47129

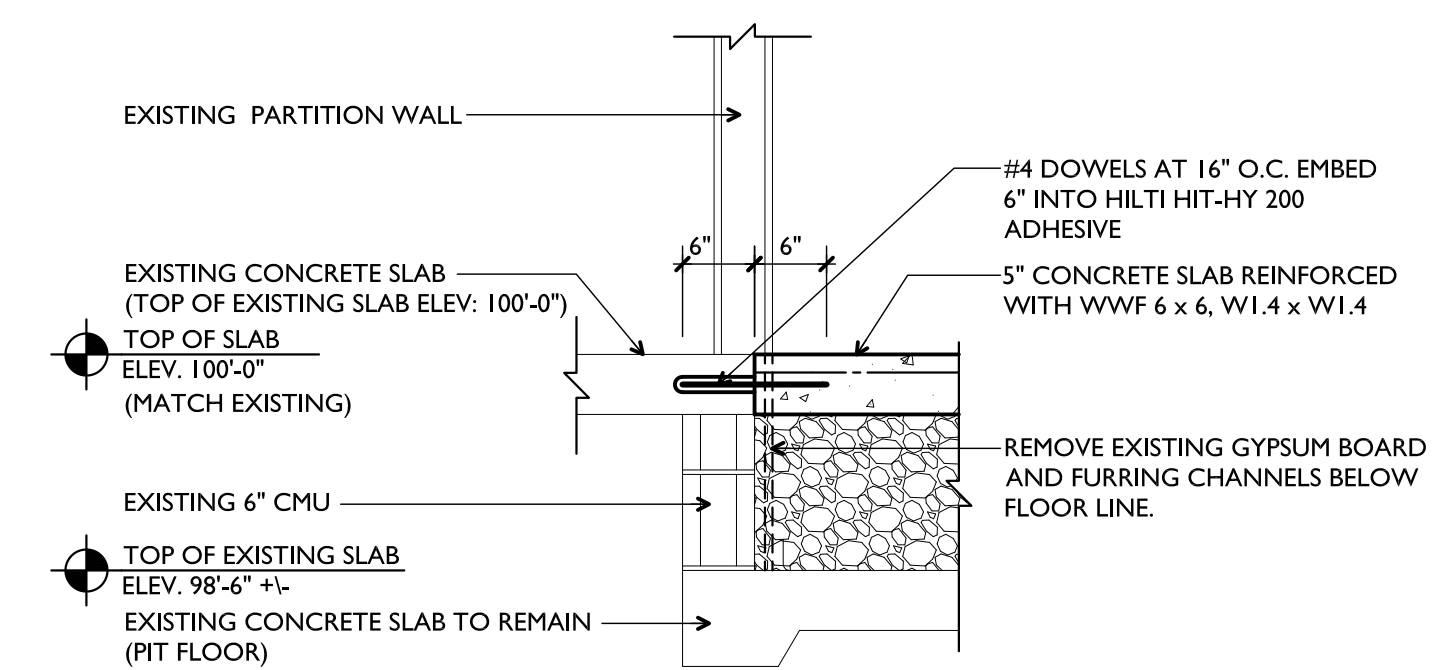
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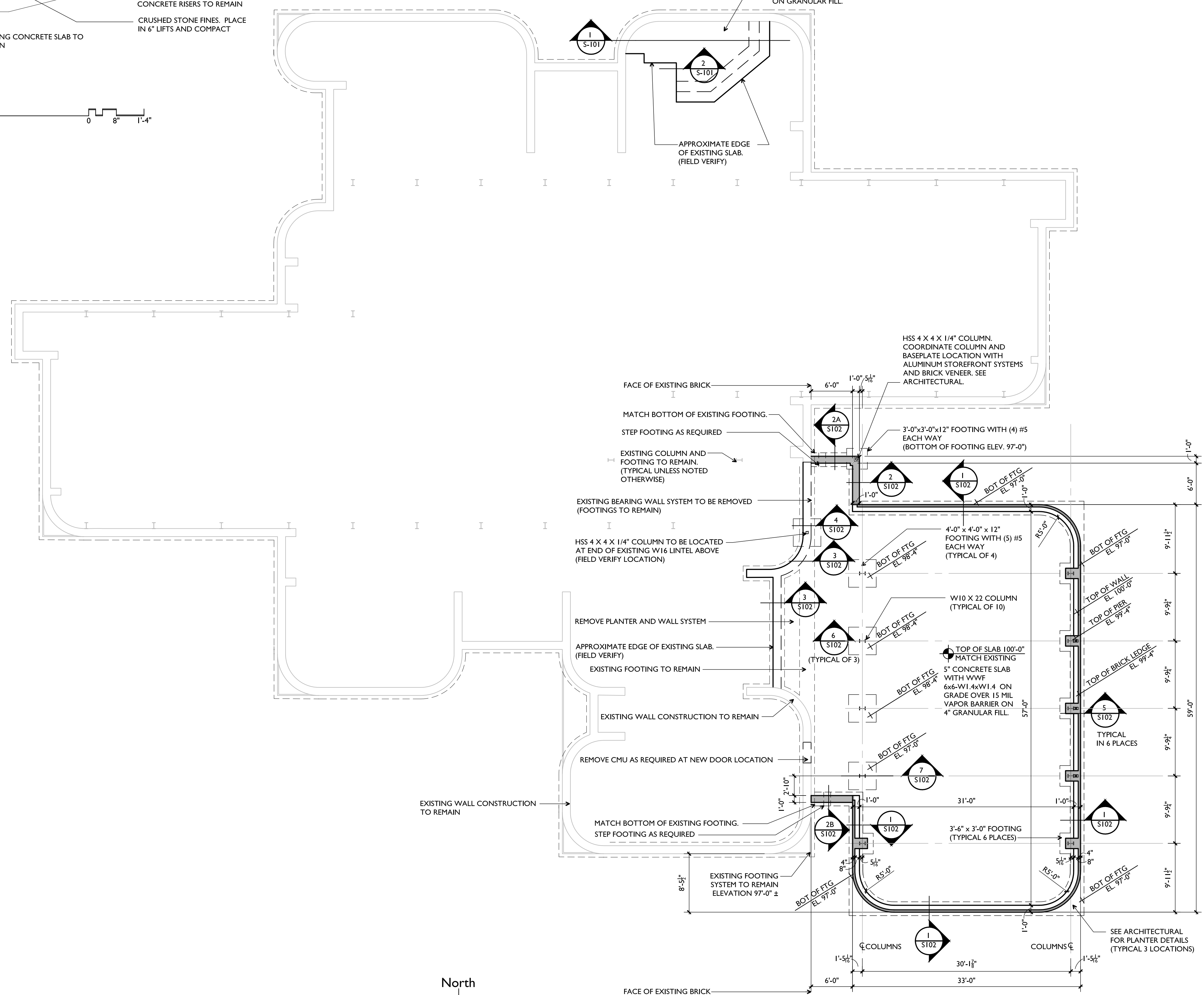




**1 Pit Infill Detail**  
 S-101 full size plot scale: 3/4"=1'-0"



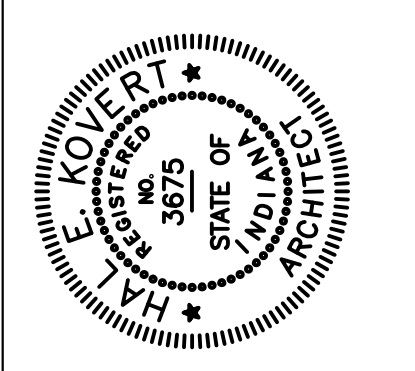
**2 Pit Infill Detail**  
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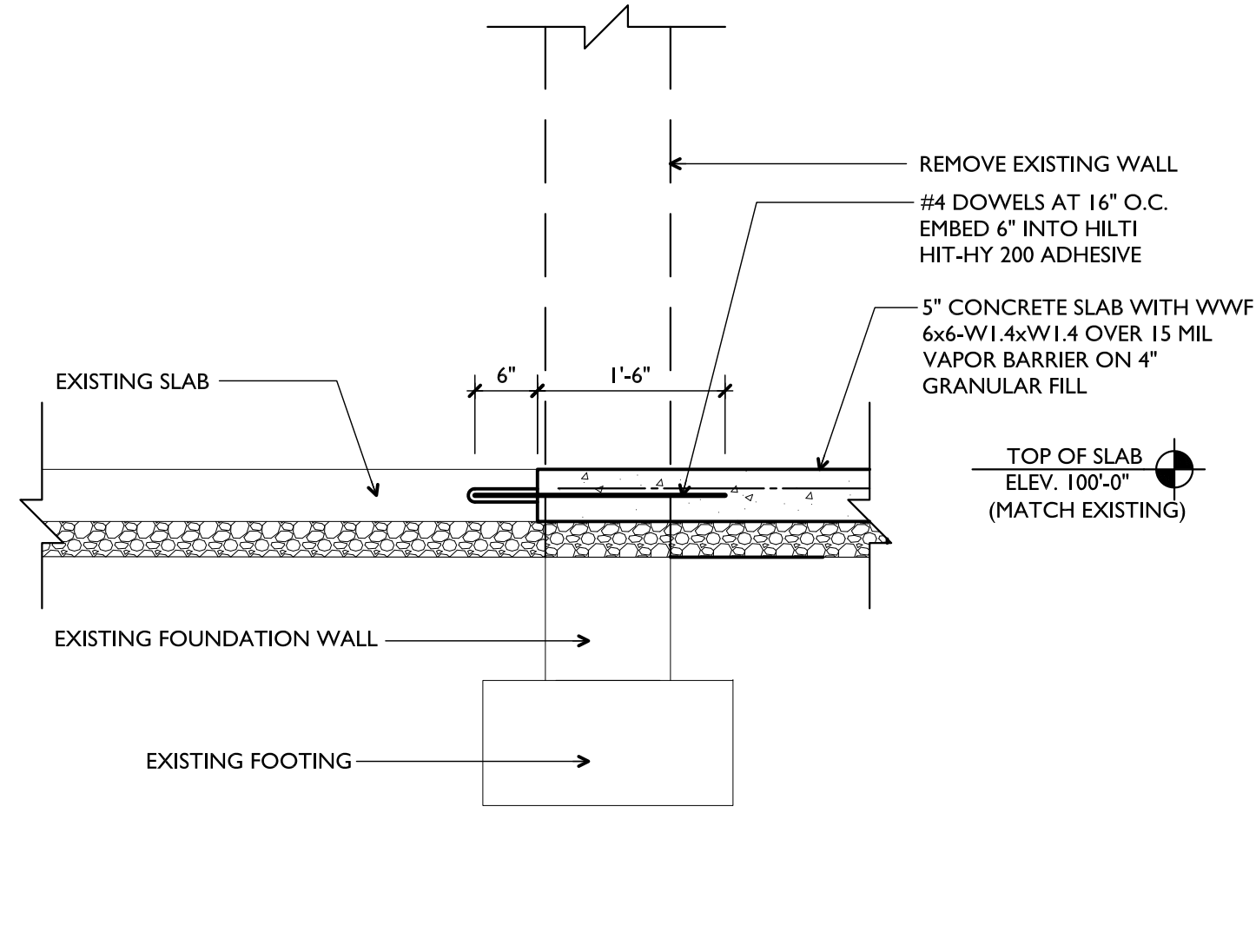
North  
**Foundation Plan**  
 full size plot scale: 1/8"=1'-0"

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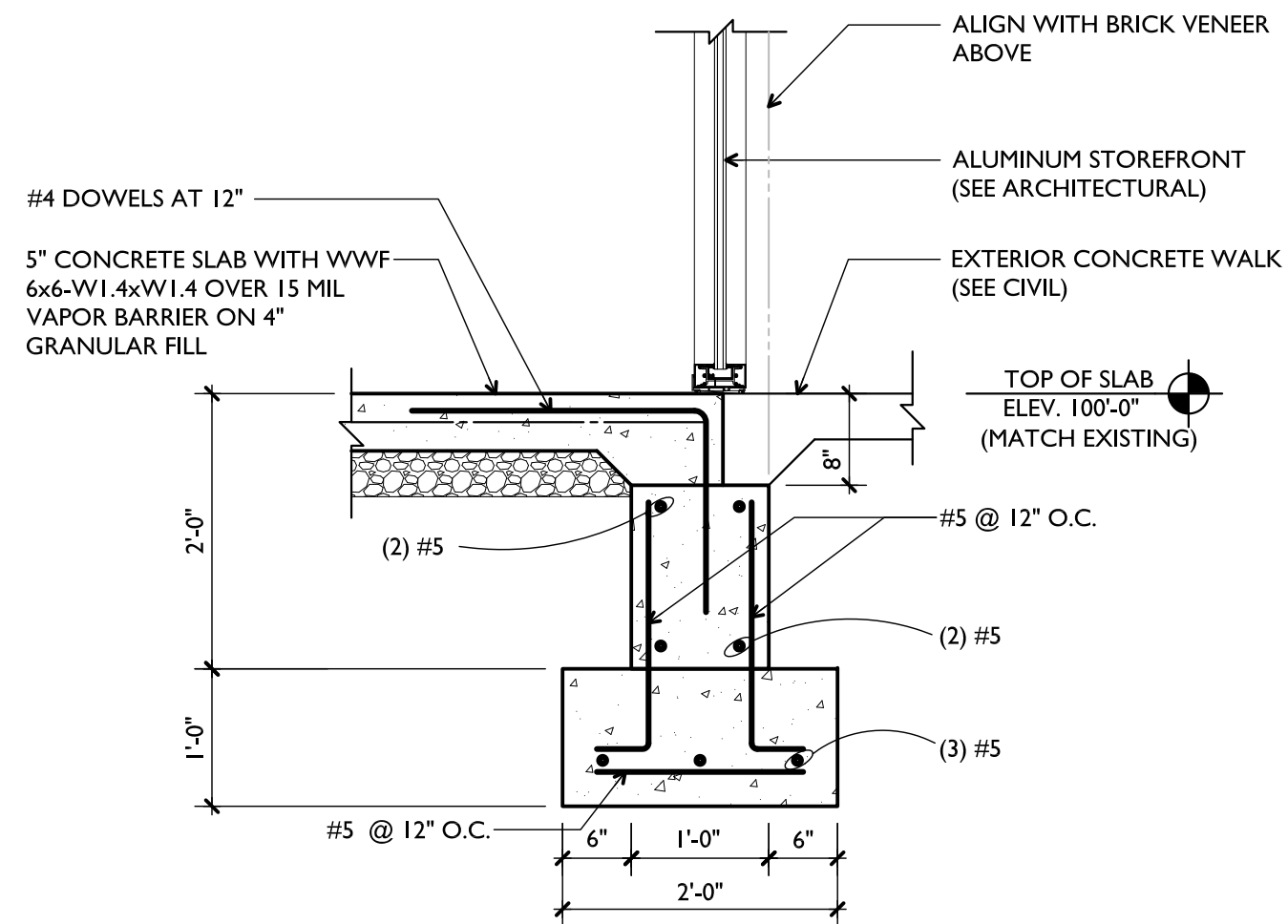
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Project No.	1723.02
Date	12/07/2017



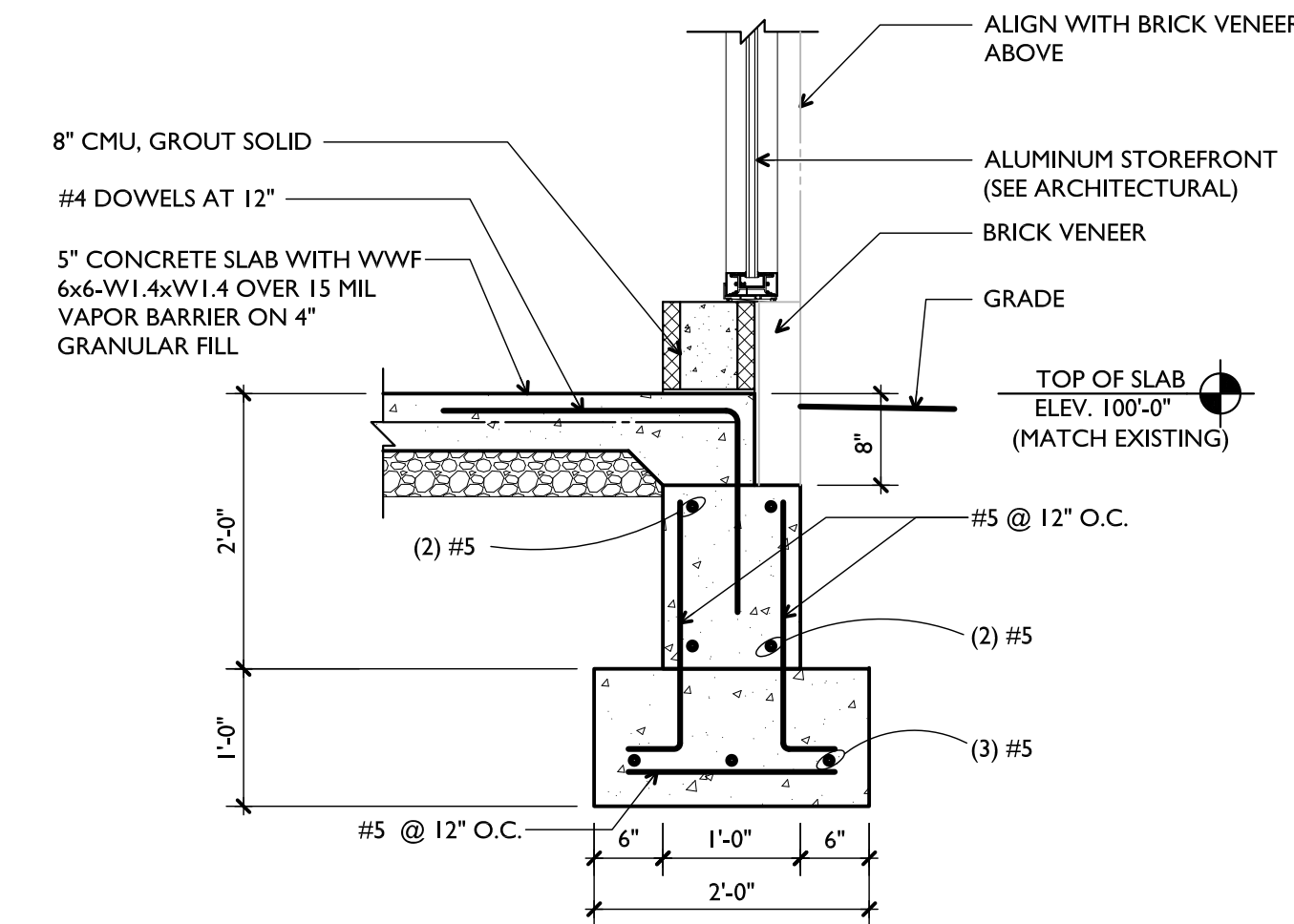




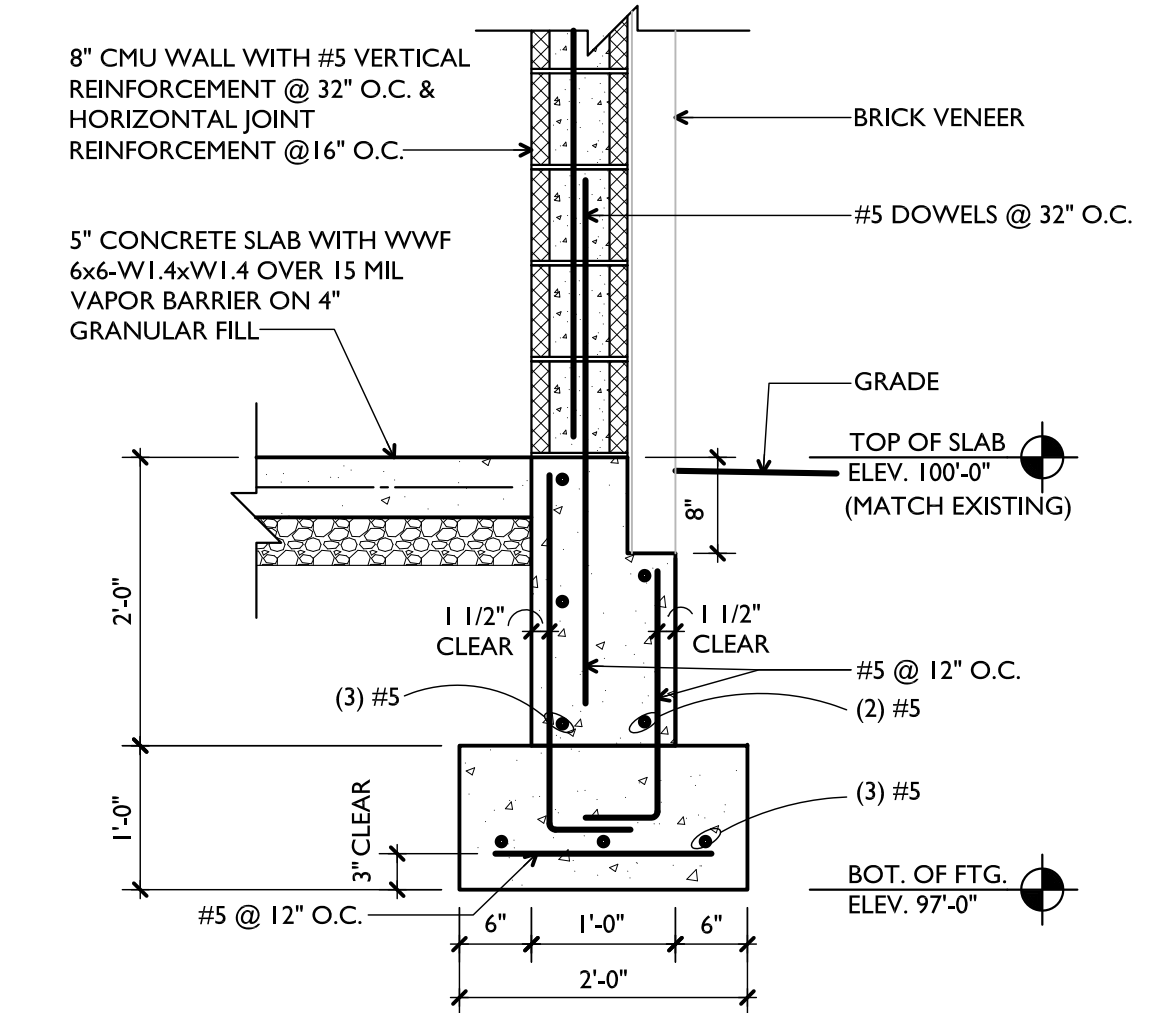
**3 Footing Section**  
S-102 full size plot scale: 3/4"=1'-0"



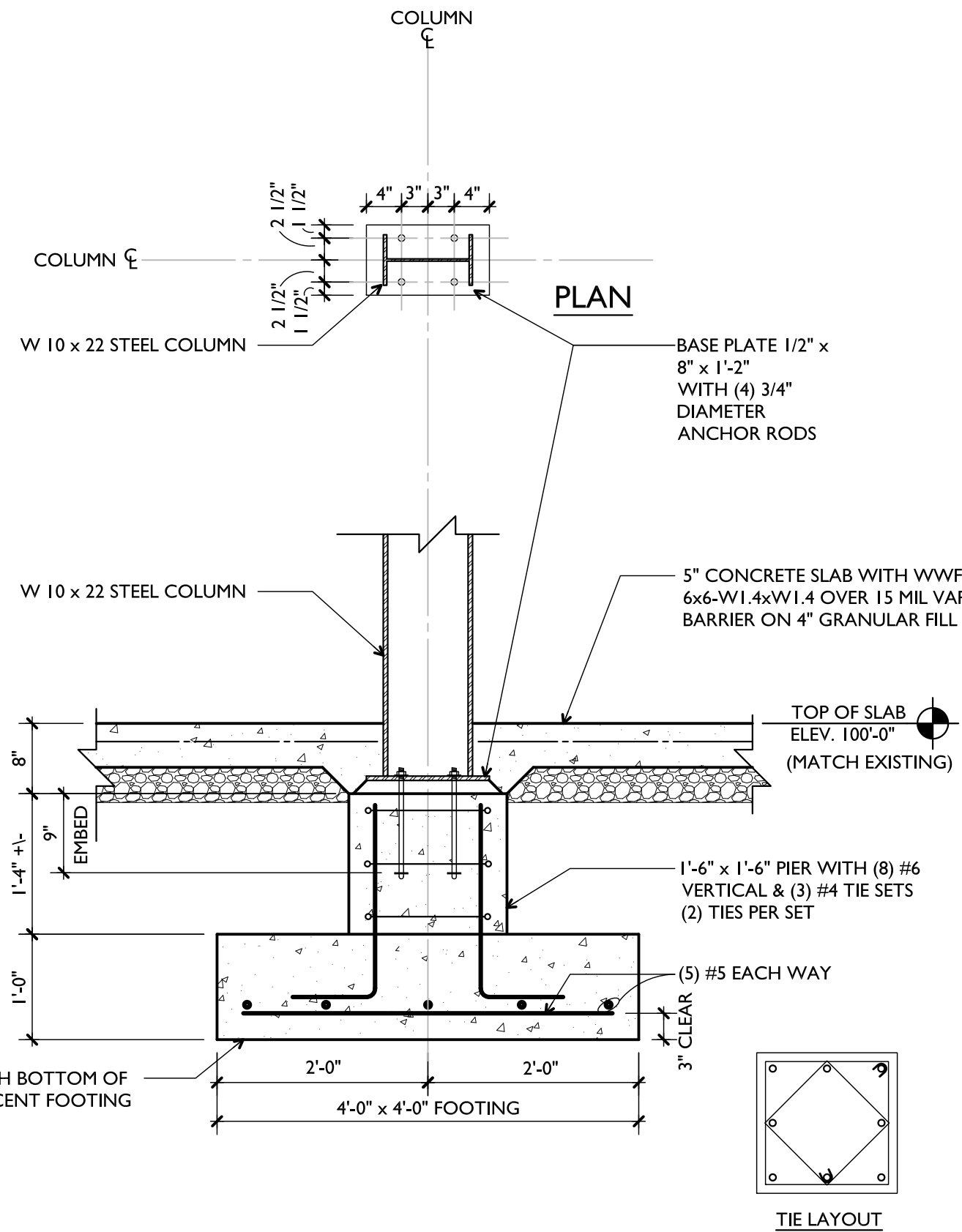
**2B Footing Section**  
S-102 full size plot scale: 3/4"=1'-0"



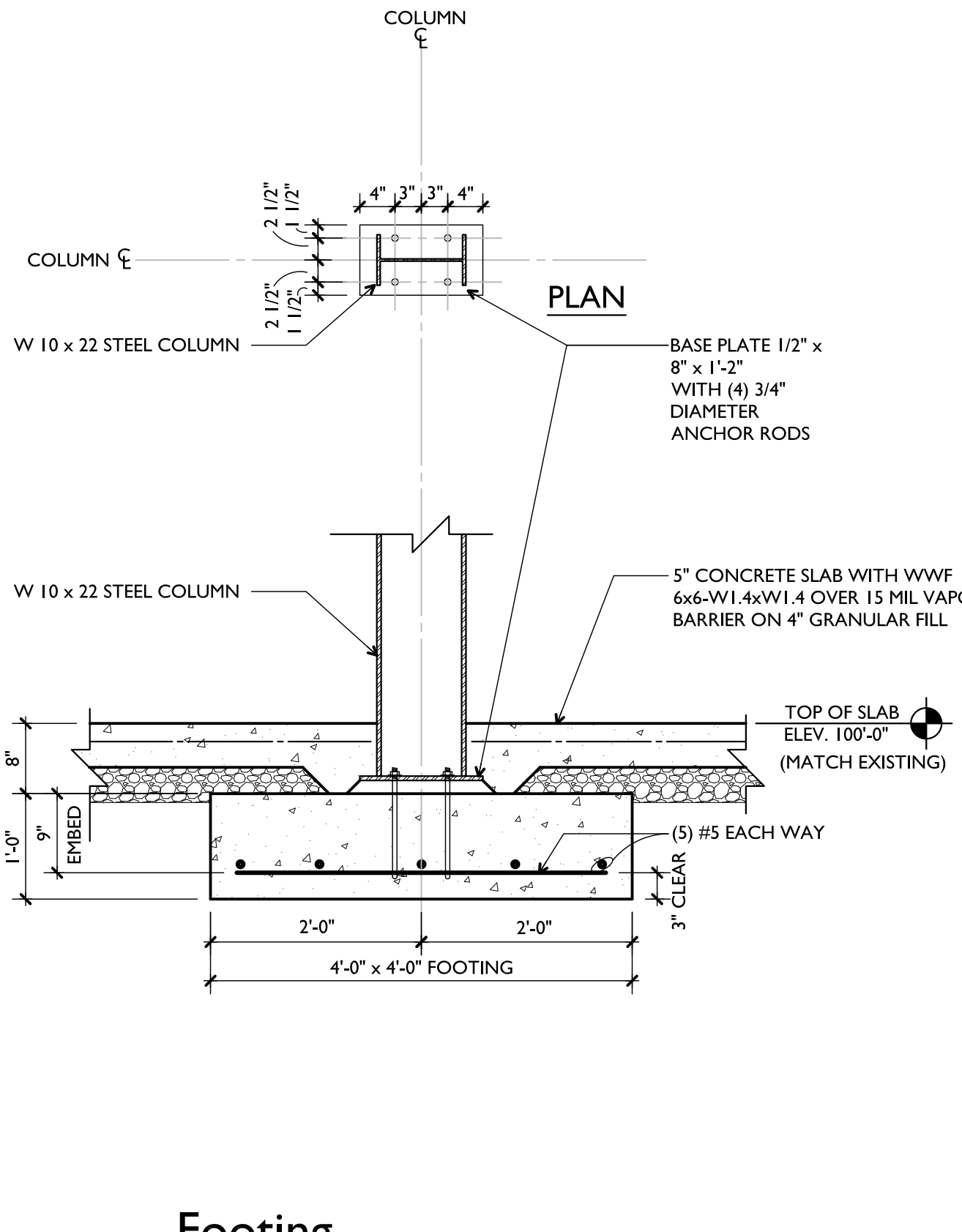
**2A Footing Section**  
S-102 full size plot scale: 3/4"=1'-0"



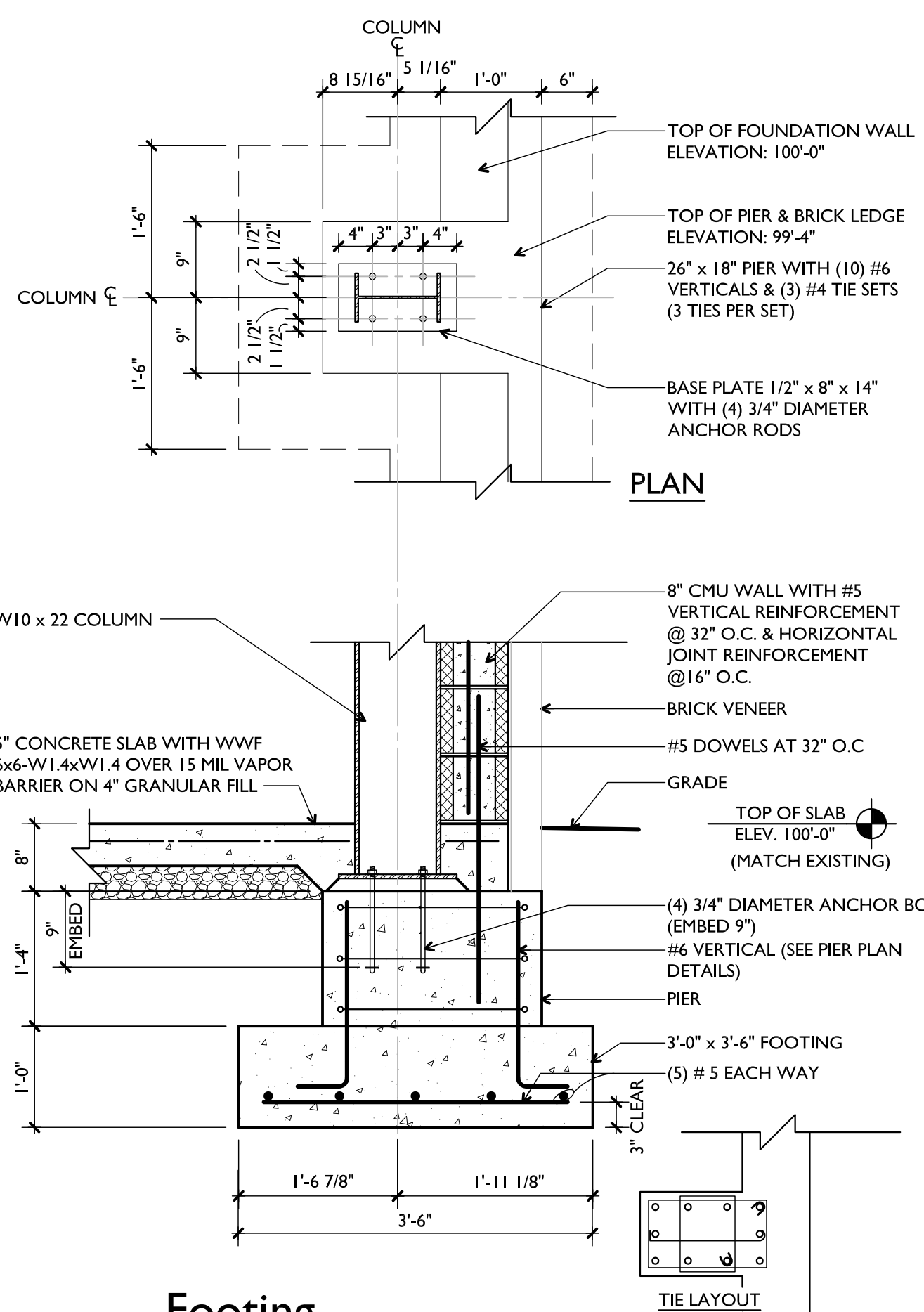
**1 Footing Section**  
S-102 full size plot scale: 3/4"=1'-0"



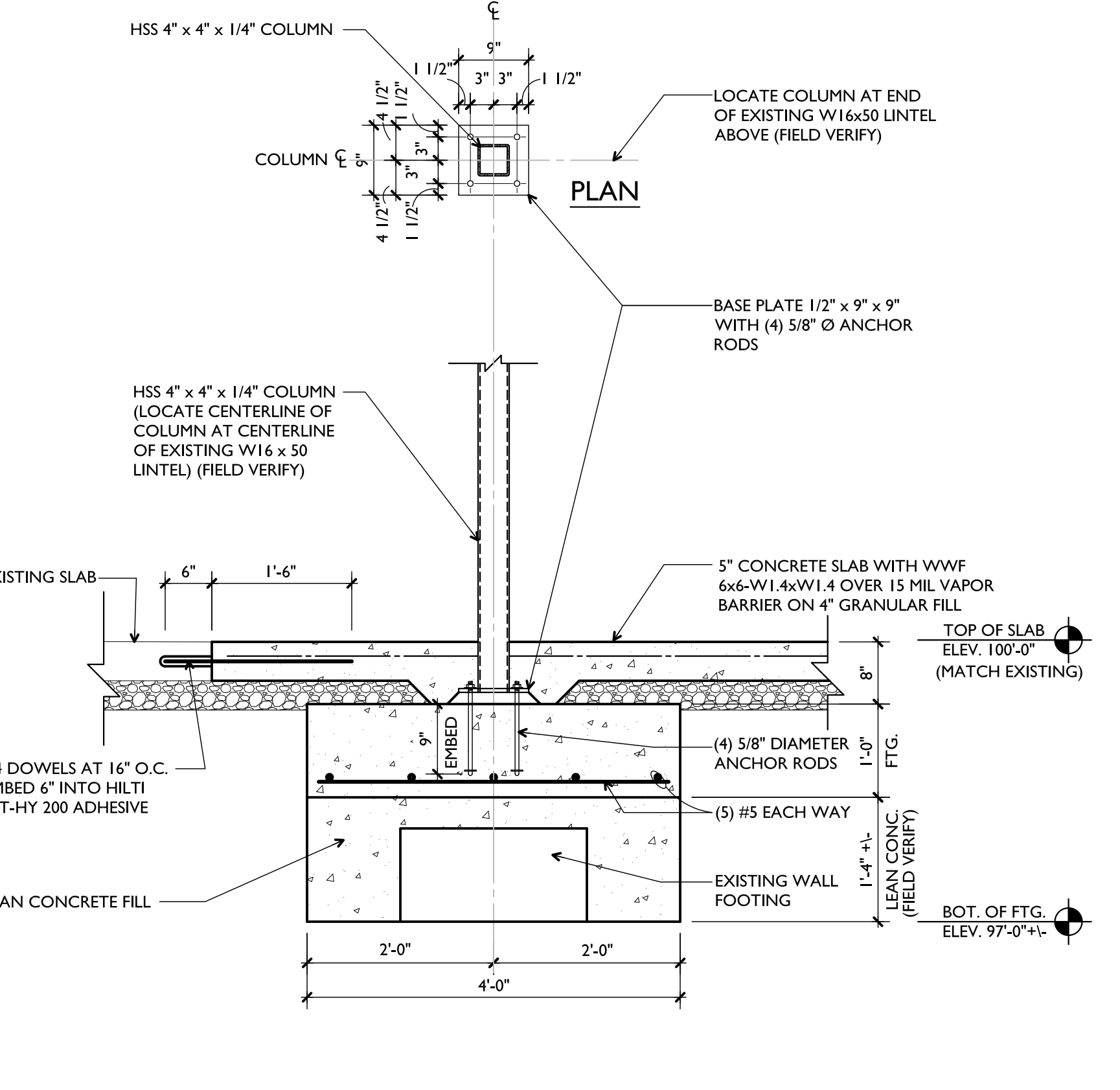
**7 Footing Interior Column**  
S-102 full size plot scale: 3/4"=1'-0"



**6 Footing Typical Interior Column**  
S-102 full size plot scale: 3/4"=1'-0"



**5 Footing Typical Exterior Column**  
S-102 full size plot scale: 3/4"=1'-0"



**4 Footing Interior Column**  
S-102 full size plot scale: 3/4"=1'-0"

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12/07/2017

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2018 Renovation & Addition  
**Clarksville Branch Library**  
Jeffersonville Township Public Library  
1312 Eastern Boulevard  
Clarksville, Indiana 47129

Sheet  
**S-102**



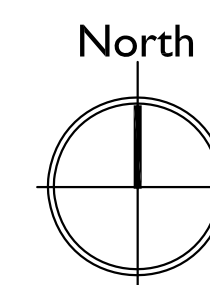
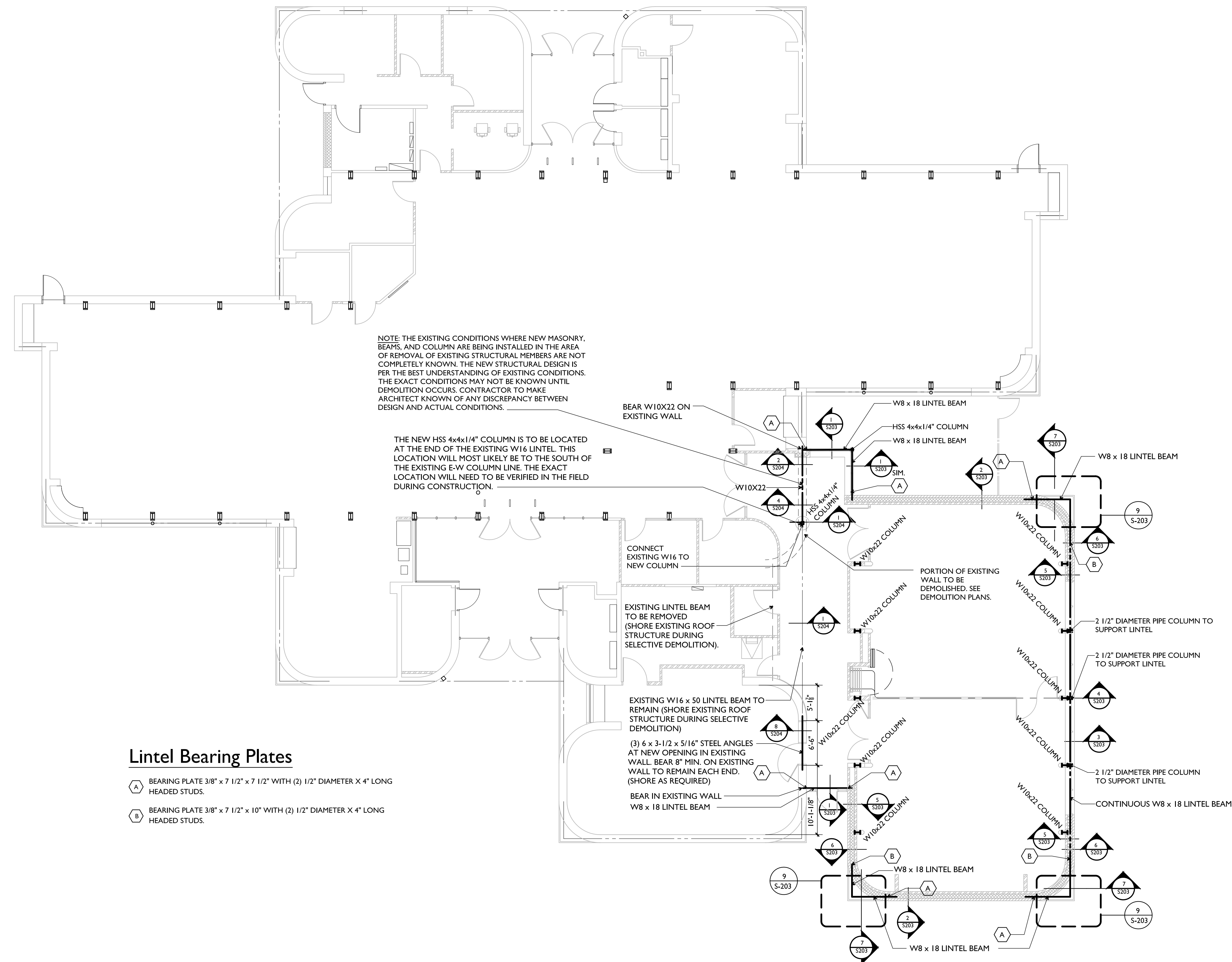
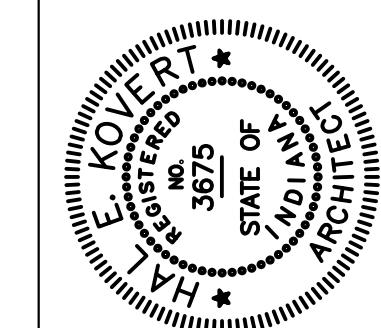






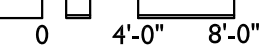
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Lintel Plan

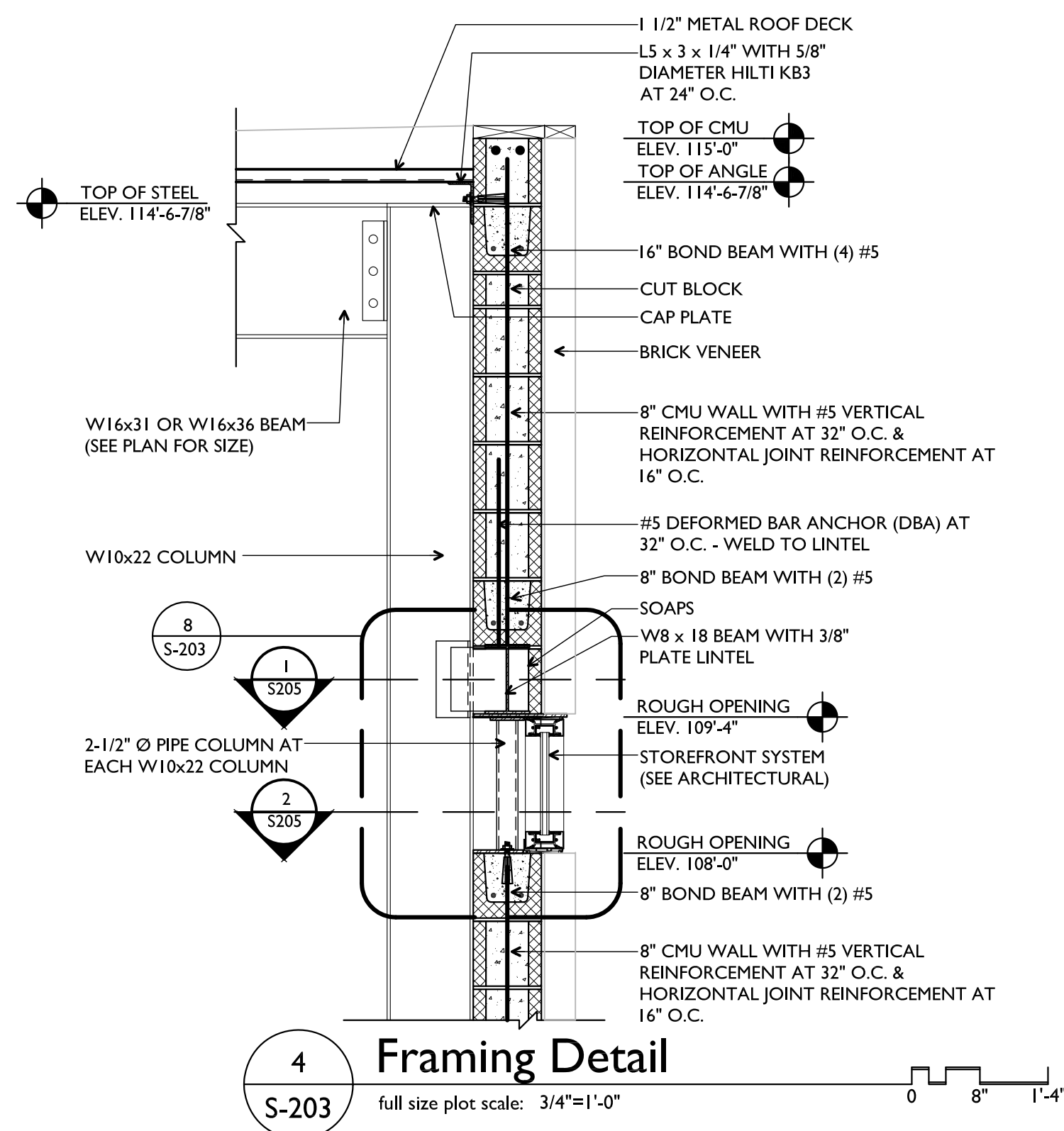
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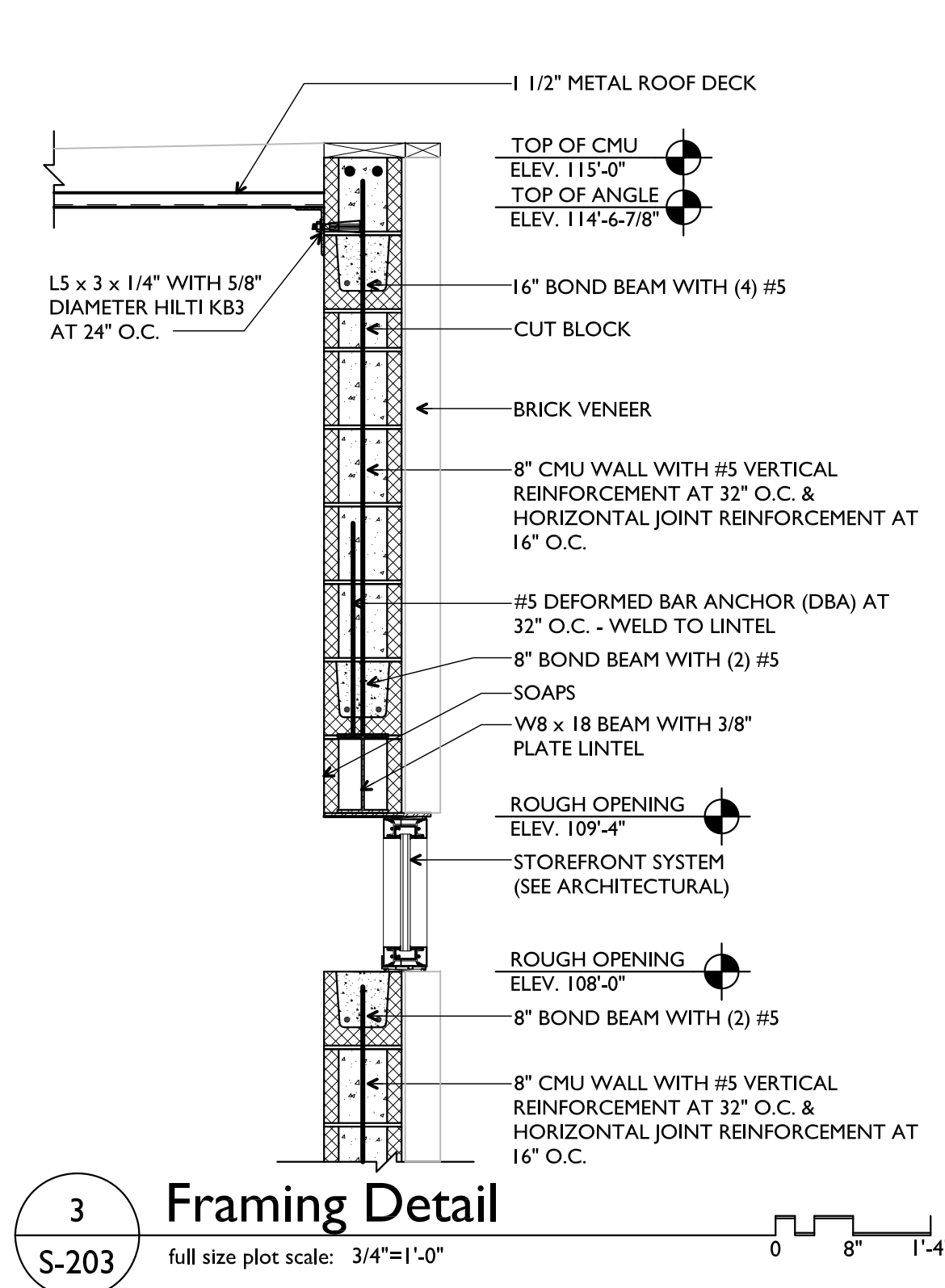
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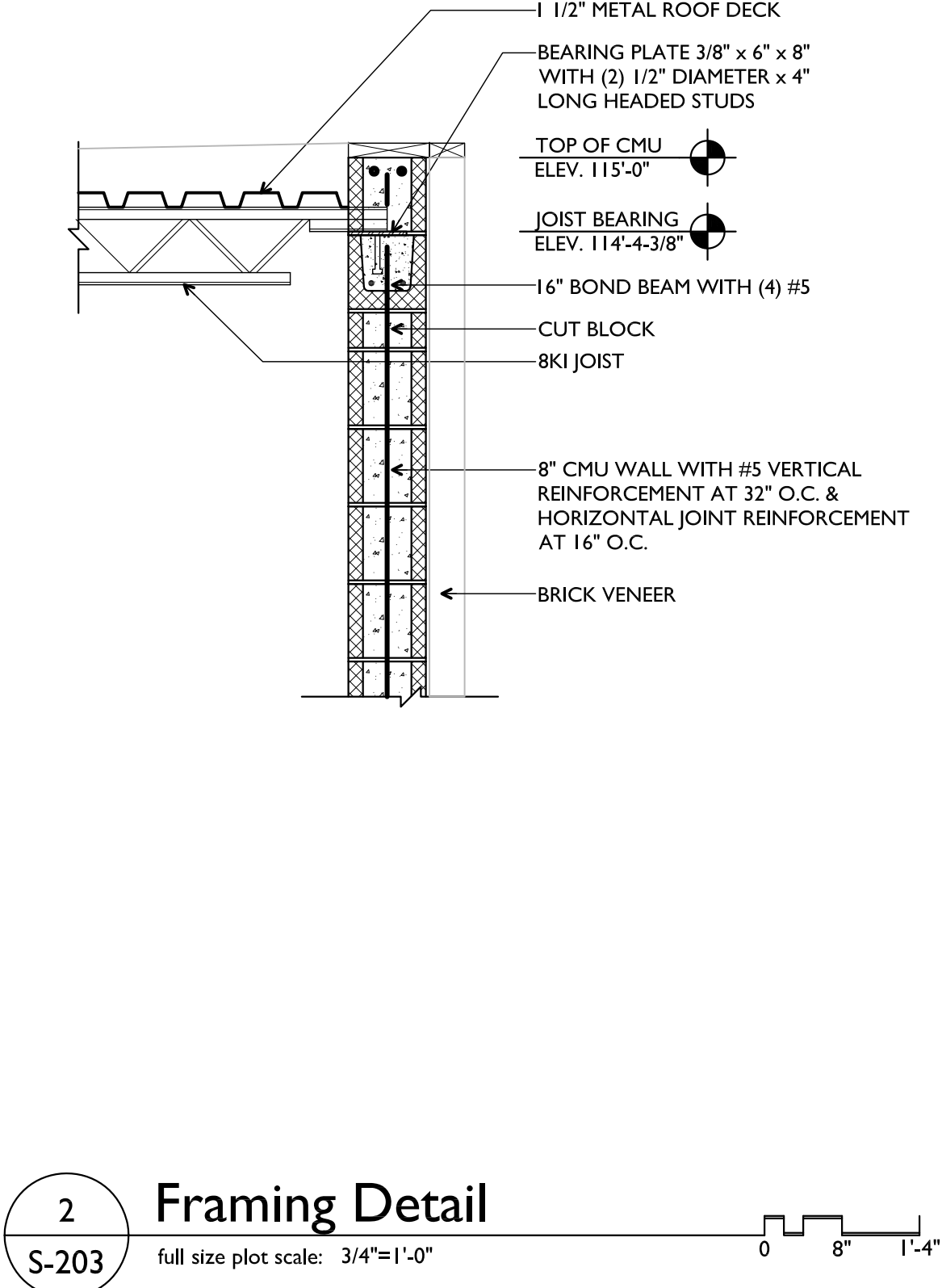




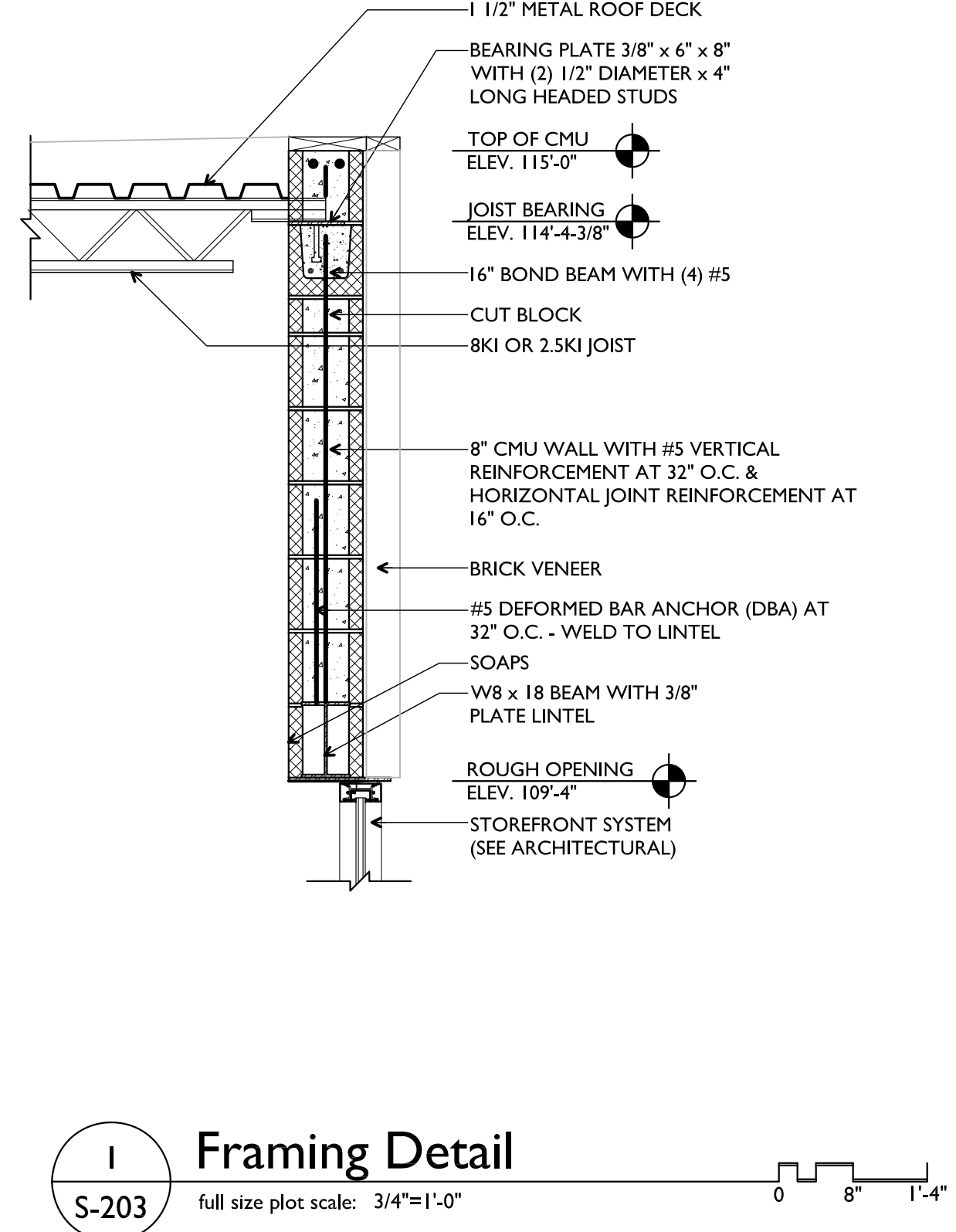
**4 Framing Detail**  
 S-203 full size plot scale: 3/4"=1'-0"



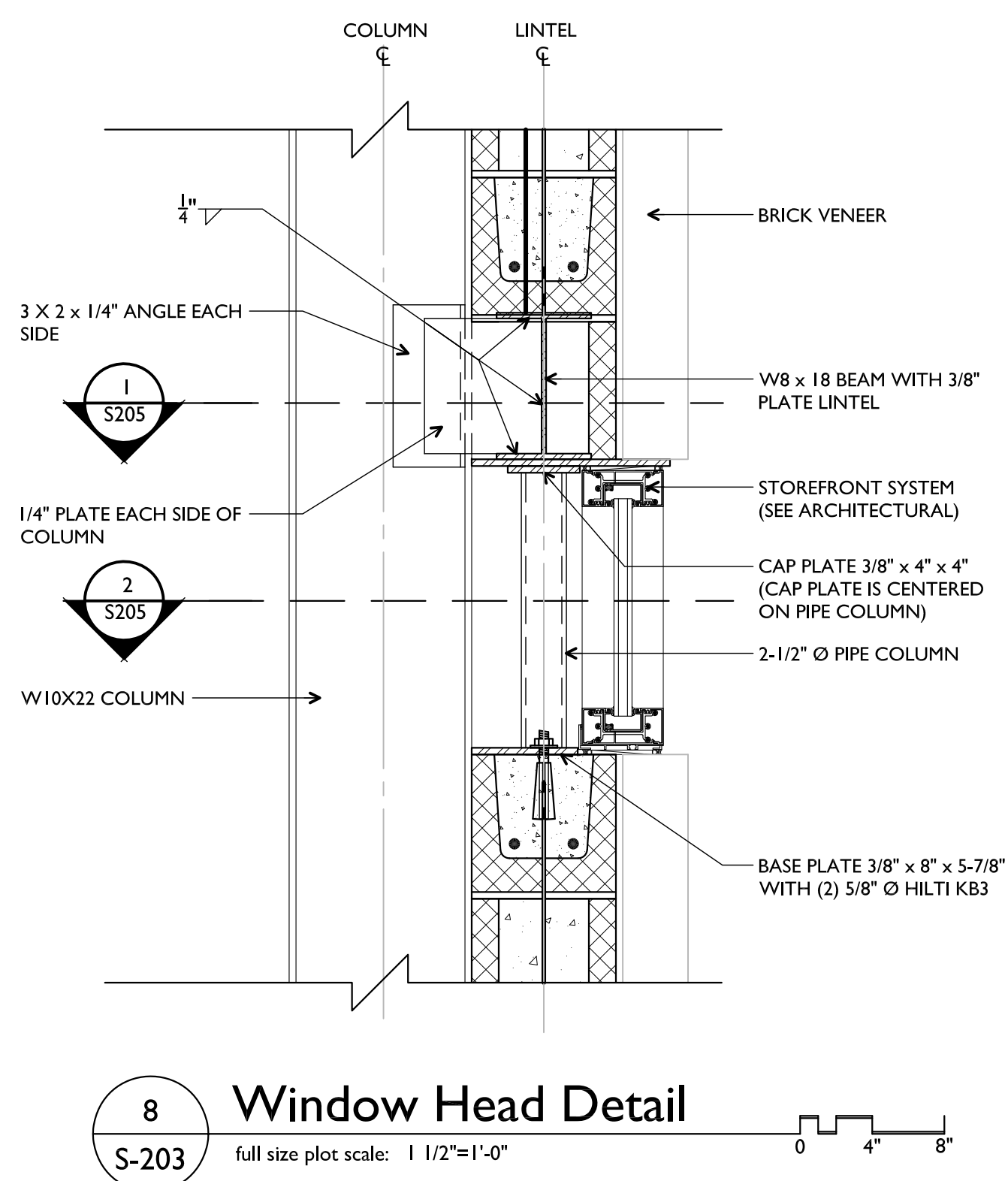
**3 Framing Detail**  
 S-203 full size plot scale: 3/4"=1'-0"



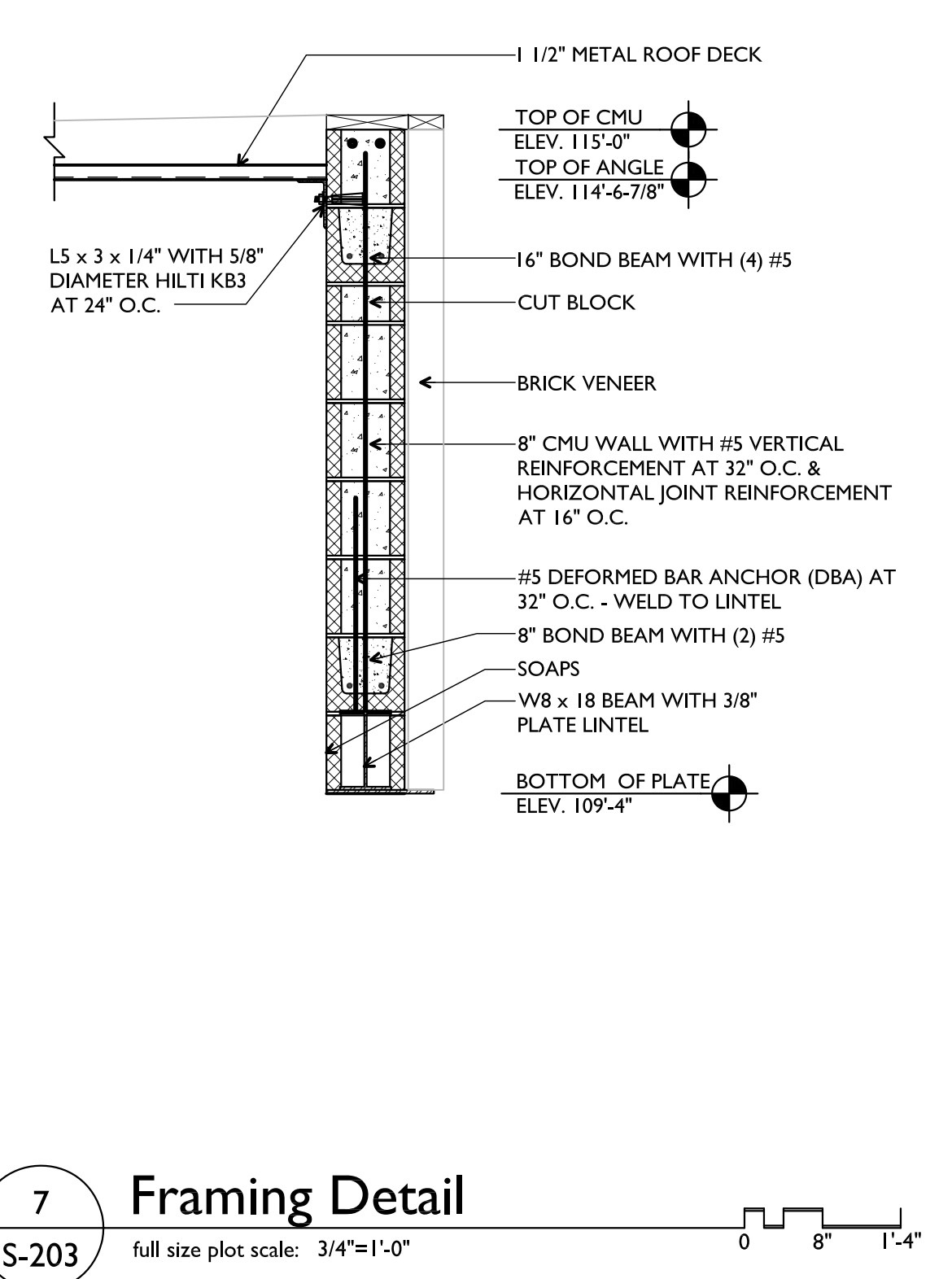
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 S-203 full size plot scale: 3/4"=1'-0"



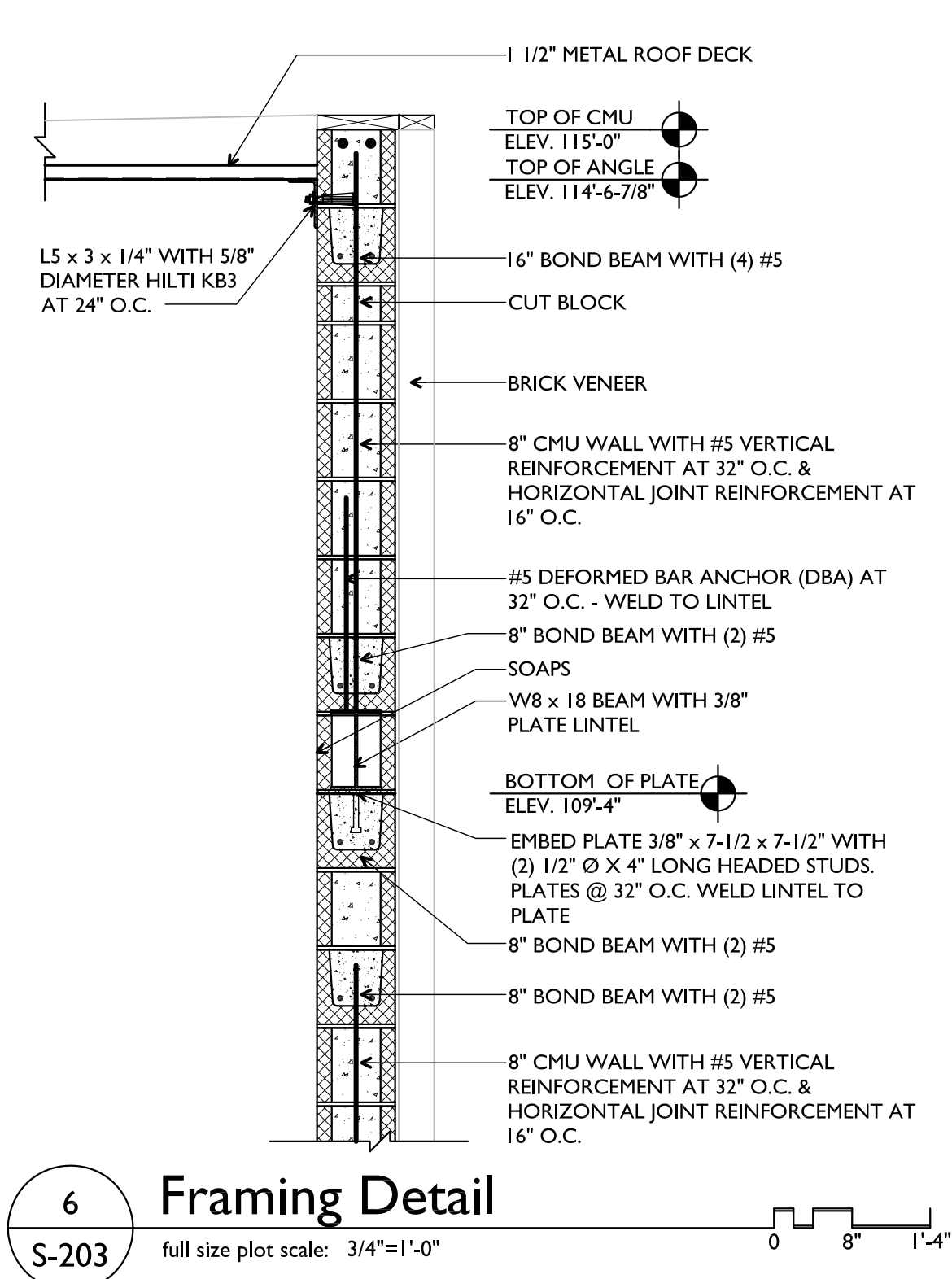
**1 Framing Detail**  
 S-203 full size plot scale: 3/4"=1'-0"



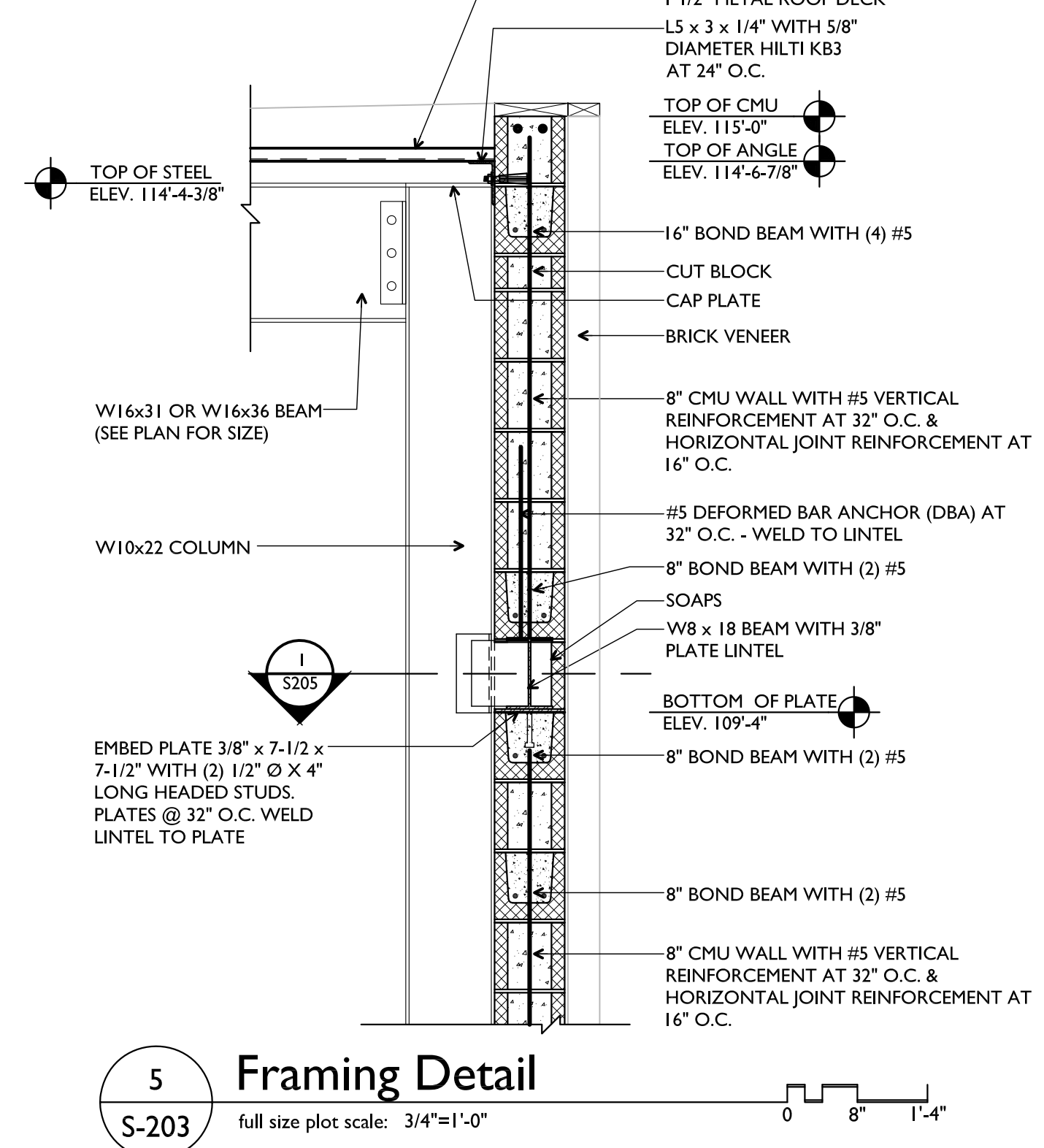
**8 Window Head Detail**  
 S-203 full size plot scale: 1 1/2"=1'-0"



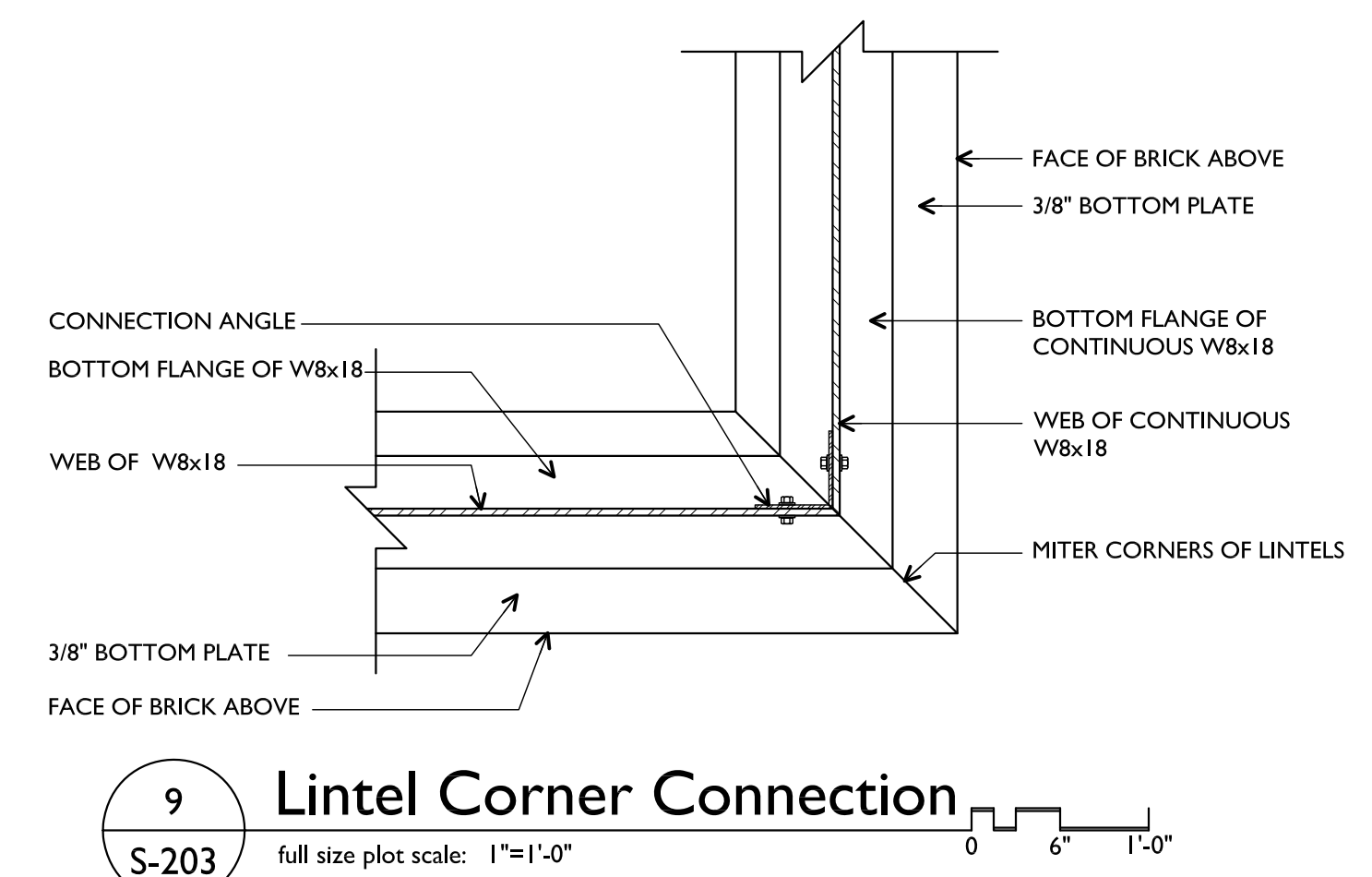
**7 Framing Detail**  
 S-203 full size plot scale: 3/4"=1'-0"



**6 Framing Detail**  
 S-203 full size plot scale: 3/4"=1'-0"



**5 Framing Detail**  
 S-203 full size plot scale: 3/4"=1'-0"



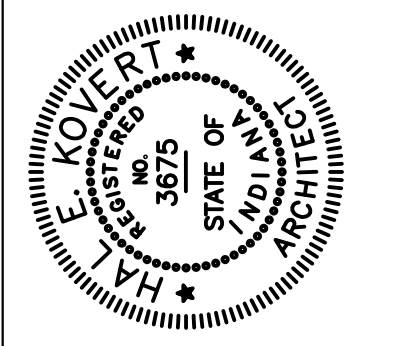
**9 Lintel Corner Connection**  
 S-203 full size plot scale: 1"=1'-0"

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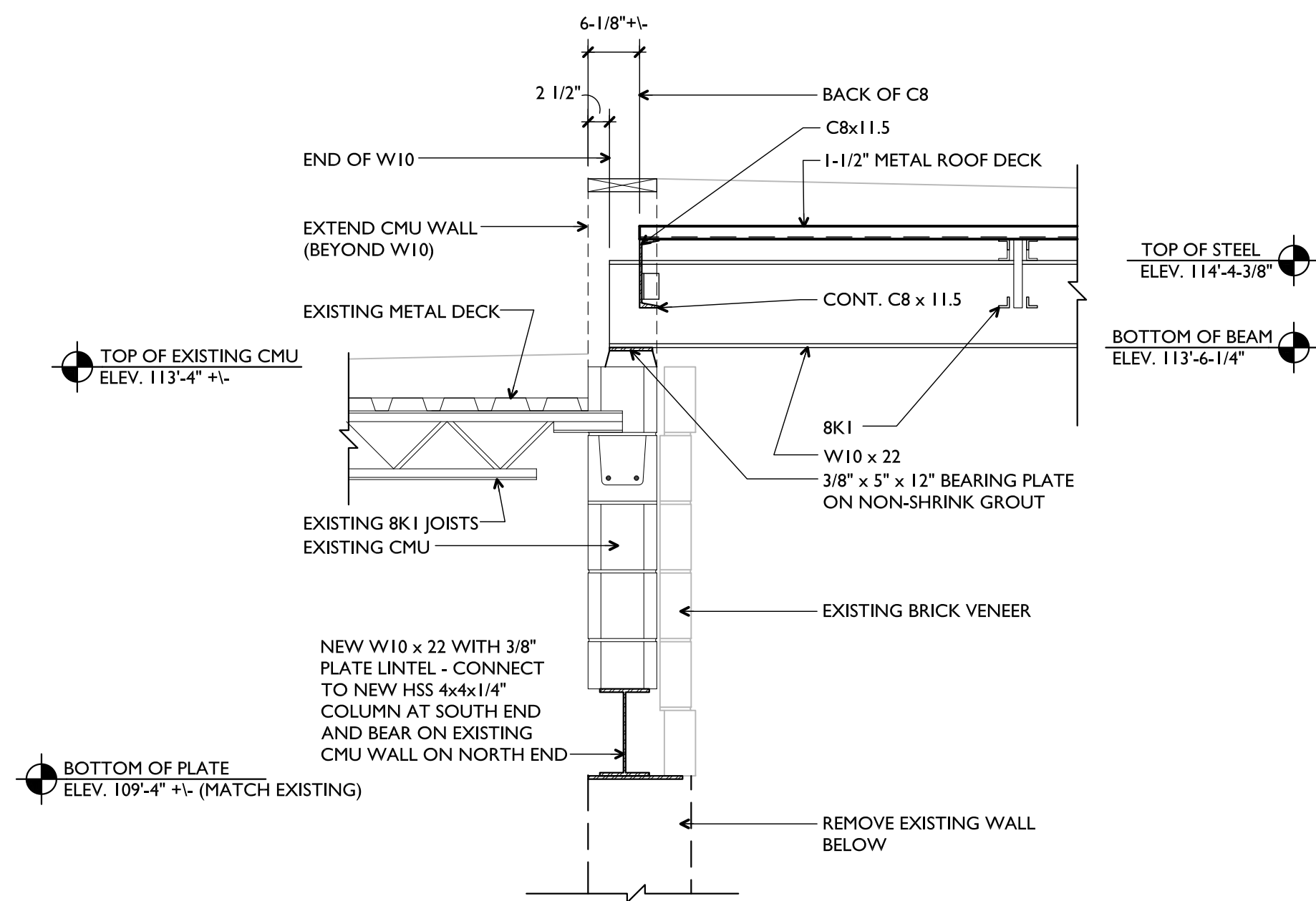


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Date	12/07/2017

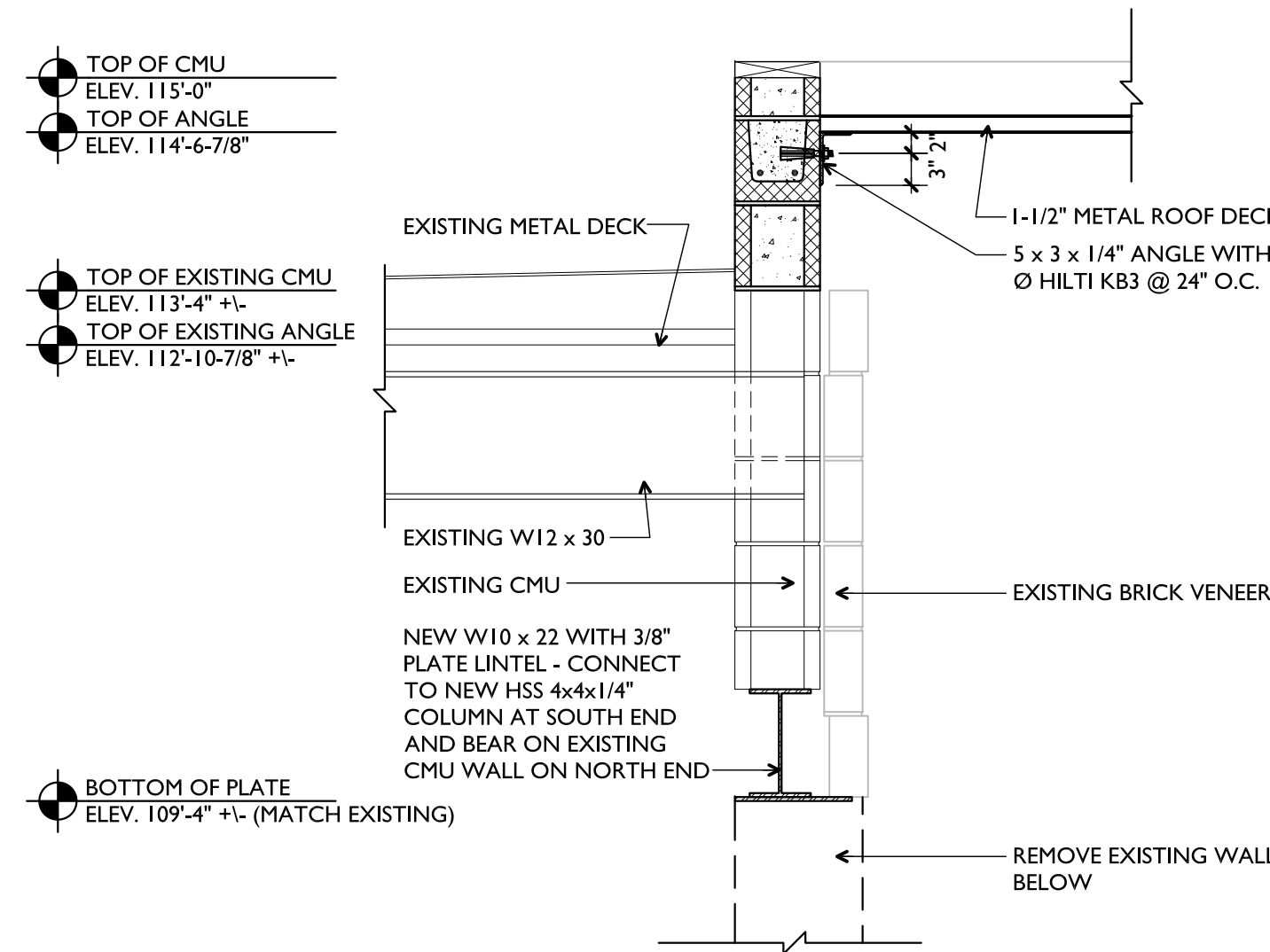
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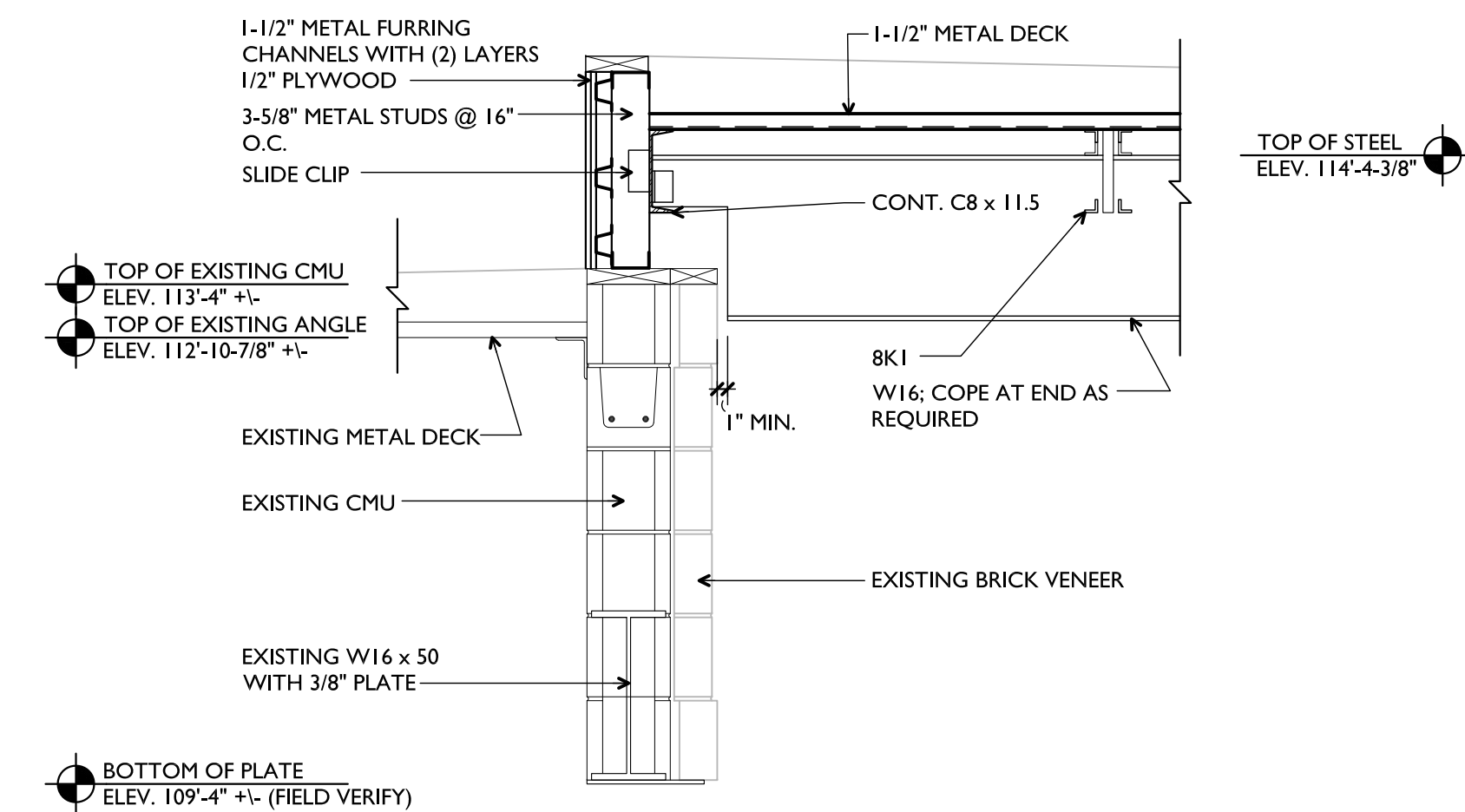




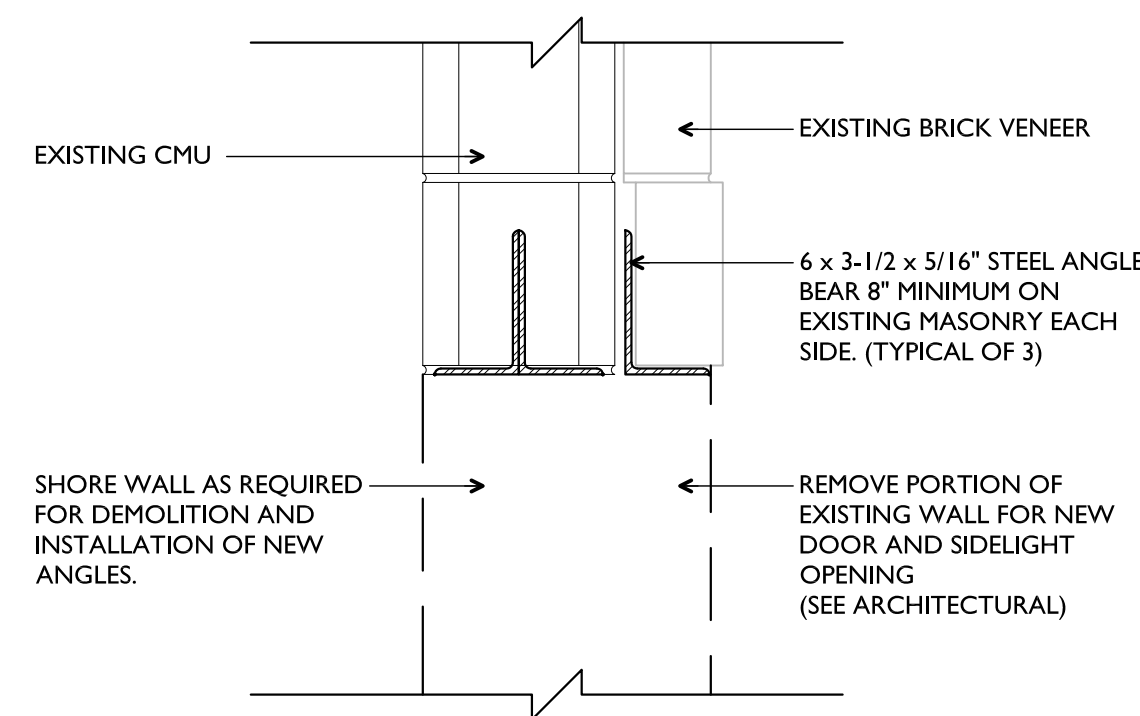
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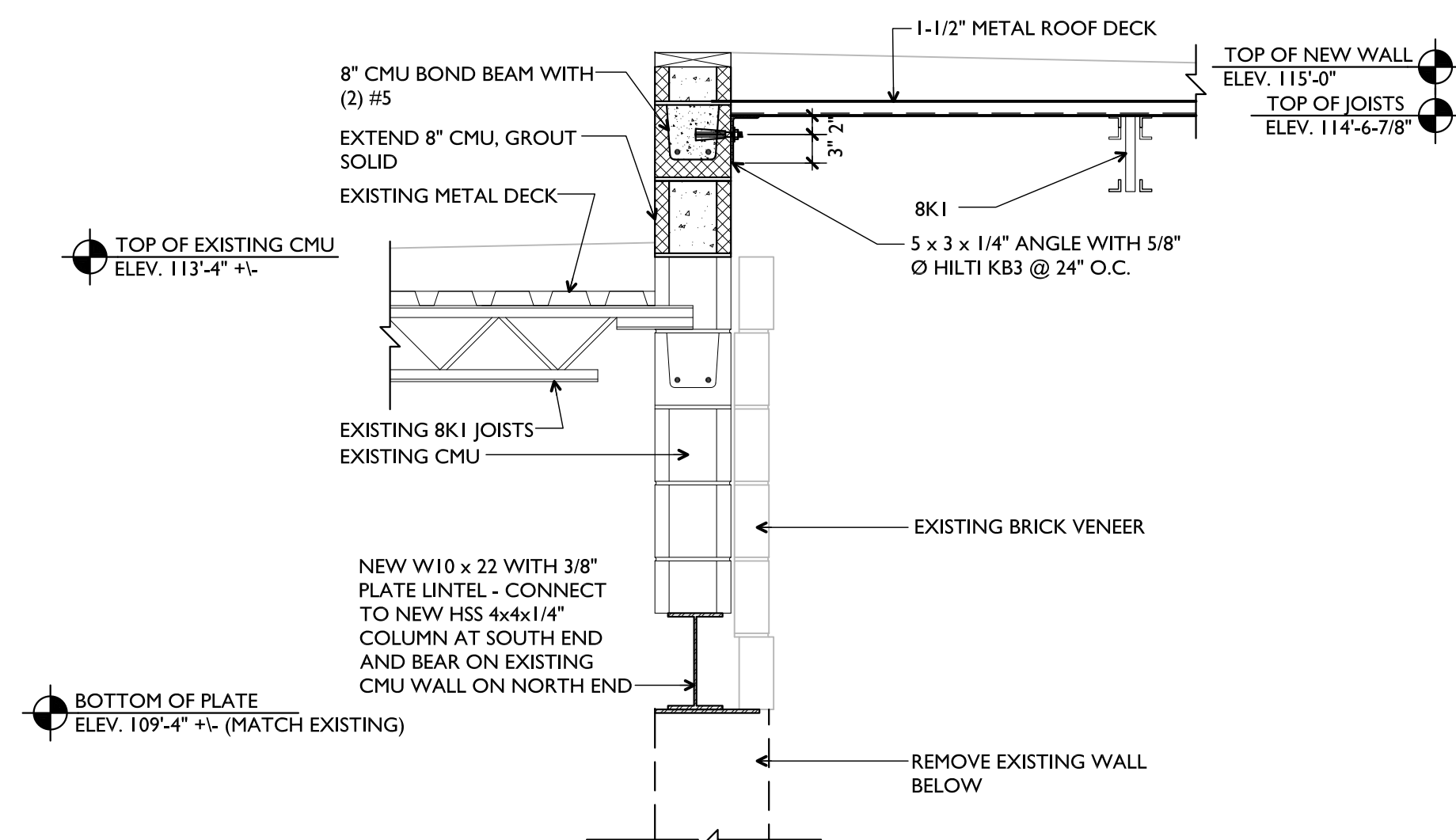
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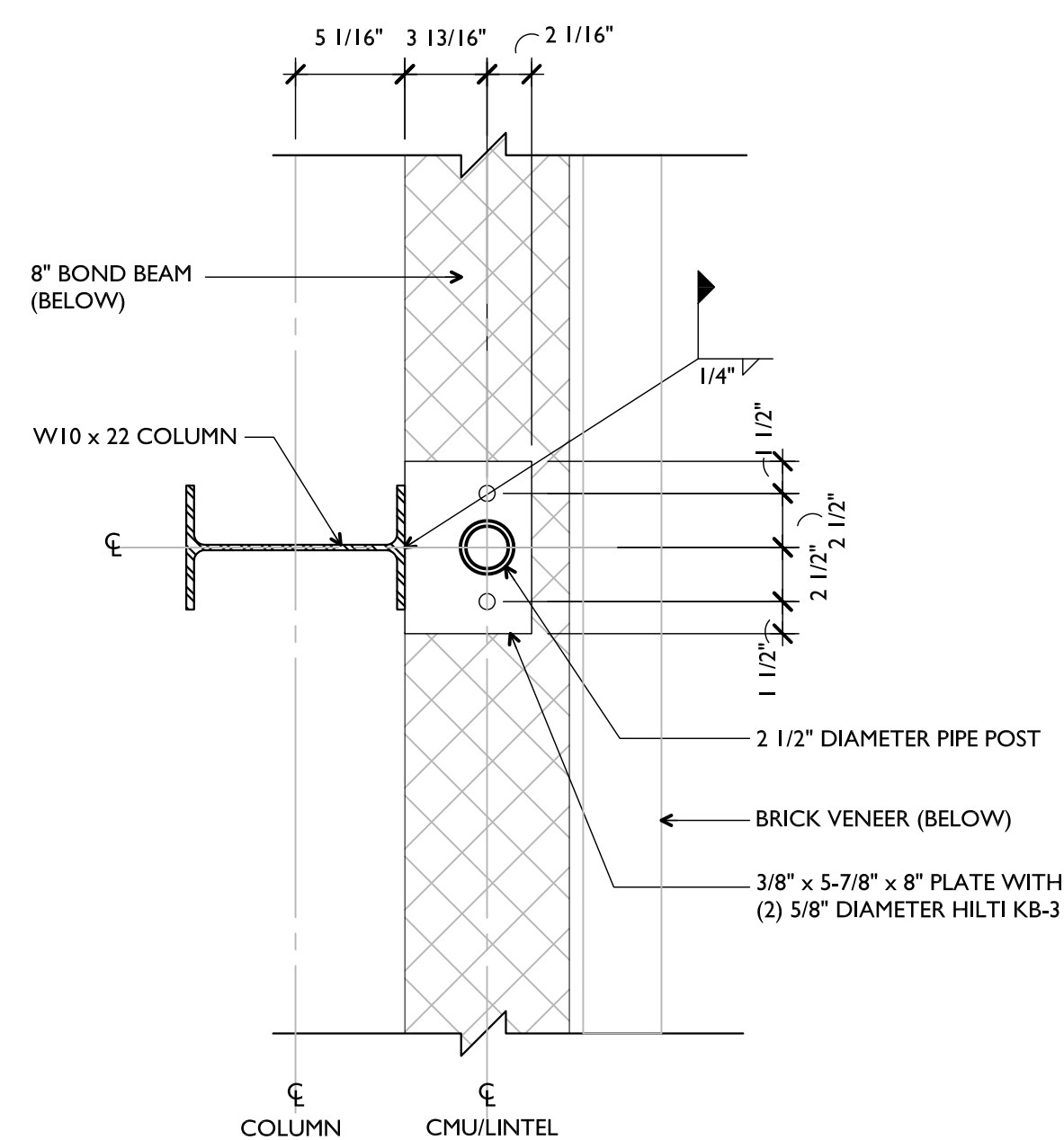
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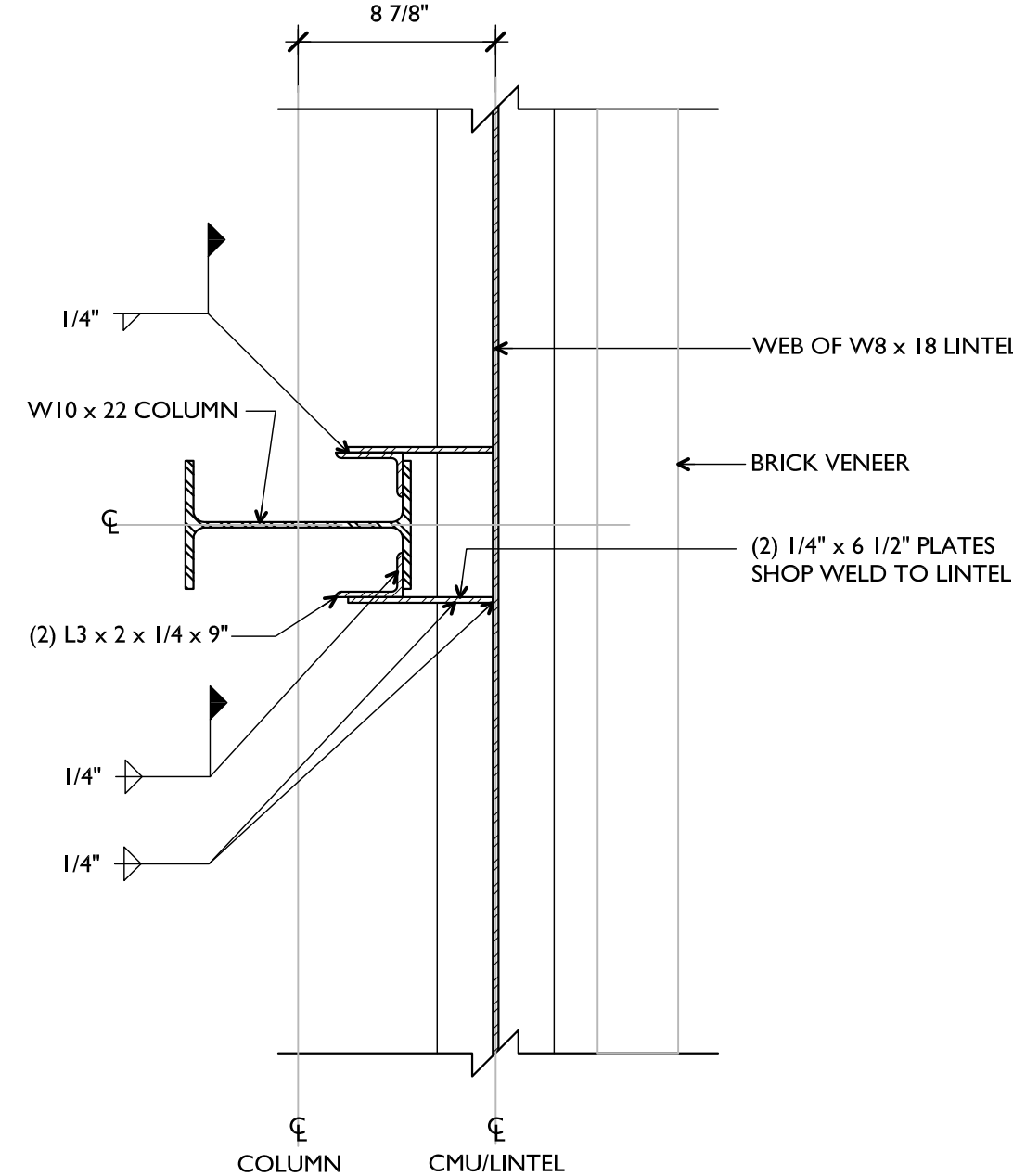
**8 Lintel Detail**  
 S-204 full size plot scale: 1-1/2"=1'-0"



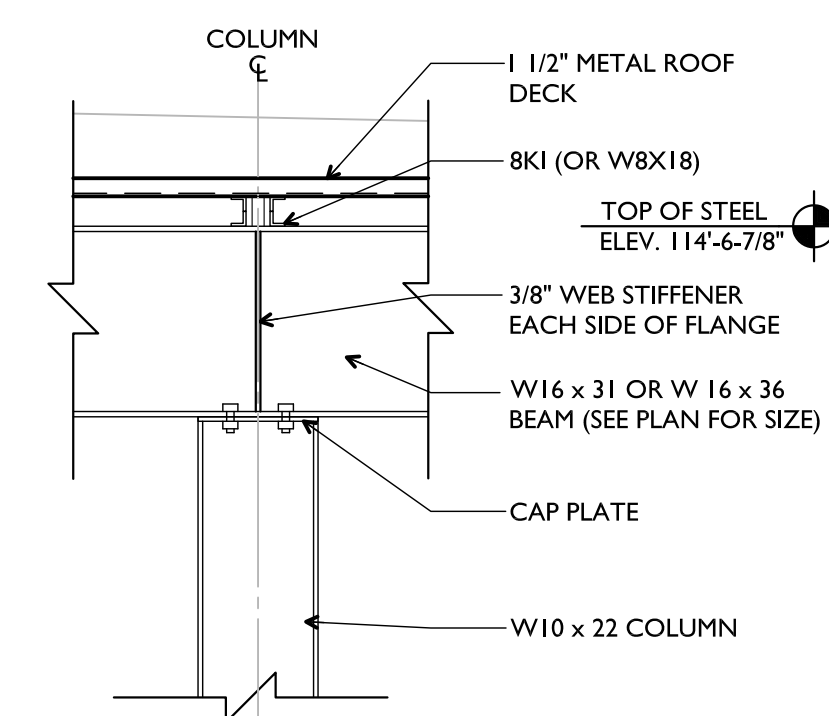
**4 Framing Detail**  
 S-204 full size plot scale: 3/4"=1'-0"



**7 Column / Post Detail**  
 S-204 full size plot scale: 1-1/2"=1'-0"



**6 Lintel to Column Detail**  
 S-204 full size plot scale: 1-1/2"=1'-0"



**5 Column to Beam Detail**  
 S-204 full size plot scale: 3/4"=1'-0"

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Checked By	HK
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Revisions

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STATE OF INDIANA ARCHITECTS  
 No. 3675

**2018 Renovation & Addition  
 Clarksville Branch Library**  
 Jeffersonville Township Public Library  
 1312 Eastern Boulevard  
 Clarksville, Indiana 47129

Sheet  
**S-204**

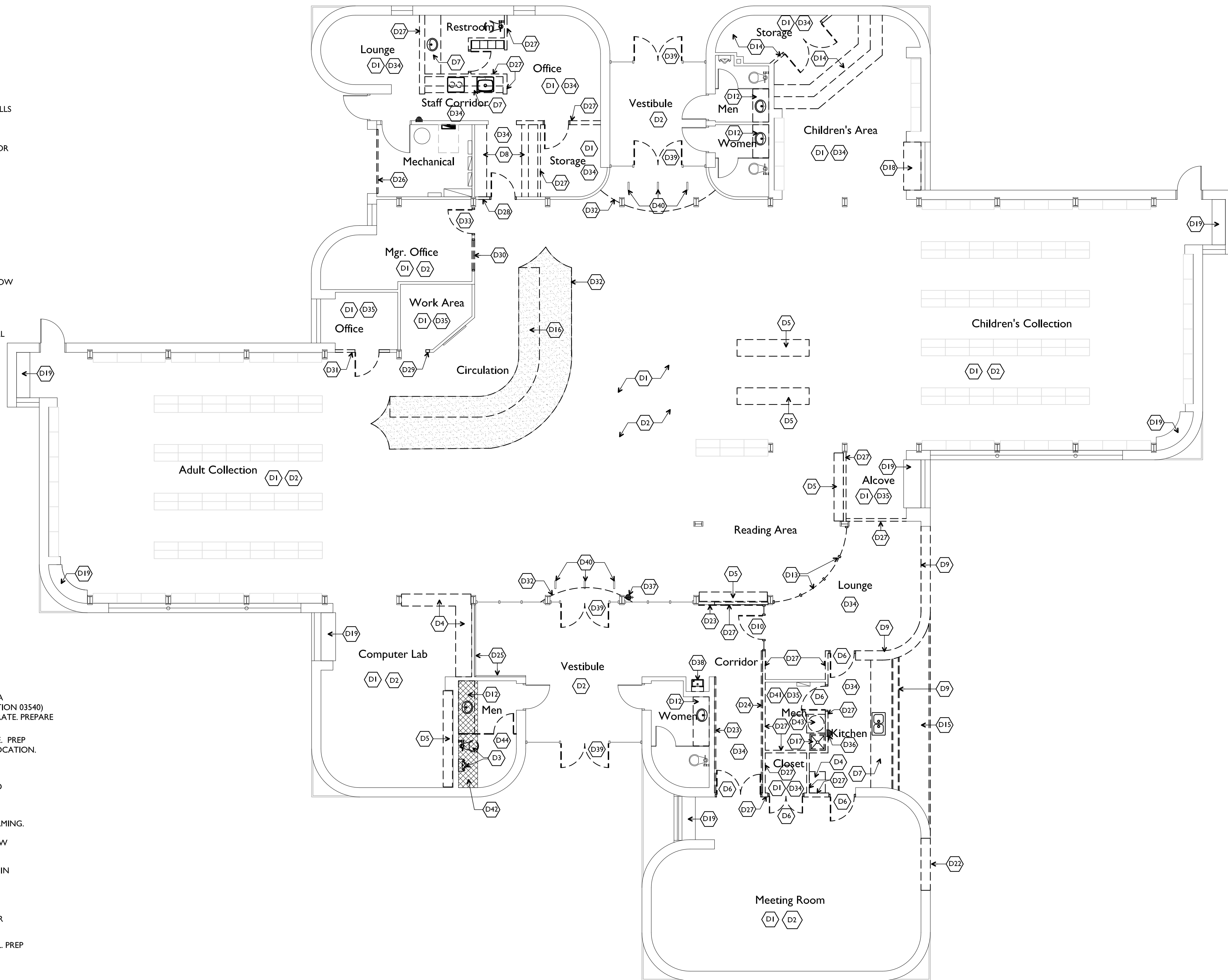


## Demolition Plan Keynotes

- D1 COMPLETELY REMOVE CARPET TILES, MASTIC AND WALL BASE FROM ENTIRE ROOM. PREPARE SUBSTRATE AS REQUIRED FOR NEW FLOORING AND BASE (SEE GENERAL NOTES).
- D2 COMPLETELY REMOVE ALL EXISTING CEILING PANELS. (MAINTAIN EXISTING GRID SYSTEM). PREP FOR INSTALLATION OF NEW CEILING PANELS.
- D3 REMOVE EXISTING FLOOR MOUNTED WATER CLOSET AND URINAL. PREP FOR NEW CONSTRUCTION. SEE PLUMBING.
- D4 COMPLETELY REMOVE PLASTIC LAMINATE CASEWORK SYSTEM AND BACKSPLASH IN ITS ENTIRETY. PREPARE FOR NEW FINISHES.
- D5 REMOVE STEEL LIBRARY SHELVING AND WOOD END PANELS AND RETURN TO OWNER. PATCH ALL FLOORS AND WALLS WHERE ANCHORS WERE REMOVED.
- D6 COMPLETELY REMOVE DOOR, HARDWARE AND FRAME SYSTEM IN ITS ENTIRETY. PREPARE OPENING FOR NEW CONSTRUCTION.
- D7 REMOVE BASE AND WALL CABINETS, SINKS AND ASSOCIATED PLUMBING PIPING IN ITS ENTIRETY. CAP OFF AND SEAL EXISTING WATER AND WASTE LINES. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. PATCH ALL WALLS AND FLOORS WHERE ANCHORS AND PIPING WERE REMOVED.
- D8 COMPLETELY REMOVE BASE AND WALL CABINETS. PATCH ALL WALLS AND FLOORS WHERE ANCHORS WERE REMOVED. PREP FOR NEW CONSTRUCTION.
- D9 SELECTIVELY SHORE AND REMOVE PORTION OF EXISTING LOAD BEARING MASONRY WALL SYSTEM AND PREPARE FOR INSTALLATION OF NEW COLUMN AND SUPPORT SYSTEMS. SEE STRUCTURAL DRAWINGS. SALVAGE BRICK FOR RE-USE IN OTHER LOCATIONS AS REQUIRED. SEE ARCHITECTURAL DRAWINGS.
- D10 REMOVE ALUMINUM STOREFRONT SYSTEM IN ITS ENTIRETY. PREP FOR NEW CONSTRUCTION.
- D11 REMOVE EXISTING DOOR AND WALL SYSTEMS WHERE INDICATED. PATCH FLOOR AND WALLS WHERE EXISTING WALLS WERE REMOVED.
- D12 COMPLETELY REMOVE PLASTIC LAMINATE COUNTERTOP AND SPLASHES, SINK, FAUCET, COUNTERTOP SYSTEM AND SURFACE-MOUNTED SOAP DISPENSER. PREP FOR NEW CONSTRUCTION. PROTECT EXISTING CERAMIC WALL TILE AND TOILET PARTITIONS TO REMAIN DURING CONSTRUCTION.
- D13 REMOVE EXISTING INTERIOR WINDOW WALL IN ITS ENTIRETY. PATCH FLOOR AND WALLS WHERE EXISTING WALL SYSTEM WAS REMOVED. PREPARE EXISTING SURFACE FOR APPLICATION OF NEW FINISHES.
- D14 REMOVE EXISTING WALLS, DOOR AND FINISHES FROM EXISTING PIT IN PREPARATION FOR NEW WALLS, DOORS AND FINISH SYSTEMS.
- D15 COMPLETELY REMOVE PLANTER SYSTEM IN ITS ENTIRETY. SEE STRUCTURAL.
- D16 REMOVE EXISTING BUILT-IN CIRCULATION DESK IN ITS ENTIRETY. PREPARE FOR NEW CONSTRUCTION. SEE ELECTRICAL.
- D17 REMOVE PLUMBING FIXTURE. CUT AND CAP ALL PIPING TO BE CONCEALED ABOVE CEILING, IN WALL OR BELOW FLOOR SLAB AS REQUIRED. PREP FOR NEW CONSTRUCTION.
- D18 REMOVE BUILT-IN WINDOW SEAT AND CUSHIONS. PATCH FLOORS AND WALLS WHERE ANCHORS AND BLOCKING WERE REMOVED. PREP FOR NEW CONSTRUCTION.
- D19 CAREFULLY REMOVE WOVEN UPHOLSTERY AND FOAM FROM EXISTING BUILT-IN WINDOW SEAT AND BACK CUSHION. PREP FOR NEW FOAM AND UPHOLSTERY.
- D20 SEE PLUMBING FOR WORK REQUIRED TO FIXTURES IN THIS ROOM/CORRIDOR.
- D21 SEE PLUMBING, MECHANICAL, AND ELECTRICAL FOR DEMOLITION WITHIN MECHANICAL ROOM FOR ALL UTILITIES AND EQUIPMENT AS REQUIRED.
- D22 COMPLETELY REMOVE PORTION OF EXISTING WALL FOR INSTALLATION OF NEW DOOR AND FRAME ASSEMBLY. SHORE AS REQUIRED. PREP DOOR OPENING FOR NEW LINTEL AND CMU INFILL. SEE STRUCTURAL DRAWINGS.
- D23 REMOVE FABRIC-WRAPPED WALL DISPLAY SYSTEM AND ALL ASSOCIATED HARDWARE. PREP FOR NEW WALL FINISH.
- D24 CAREFULLY REMOVE FABRIC-WRAPPED WALL DISPLAY SYSTEM AND ALL ASSOCIATED HARDWARE. SALVAGE AND STORE FOR RE-INSTALLATION IN NEW LOCATION. SEE EQUIPMENT PLAN.
- D25 CAREFULLY REMOVE FABRIC ON EXISTING WALL DISPLAY SYSTEM. PREP FOR INSTALLATION OF NEW FABRIC WALLCOVERING.
- D26 COMPLETELY REMOVE OVERHEAD COILING DOOR AND ALL ASSOCIATED HARDWARE. PREP FOR NEW CONSTRUCTION.
- D27 COMPLETELY REMOVE STUD PARTITION WALL IN ITS ENTIRETY (INCLUDING, BUT NOT LIMITED TO: DOORS, FRAMES, HARDWARE, WINDOWS, WALL BASE, CASEWORK AND ALL SURFACE MOUNTED ITEMS). SEE PLUMBING, MECHANICAL, AND ELECTRICAL FOR ADDITIONAL WORK. PREP FOR NEW CONSTRUCTION.
- D28 COMPLETELY REMOVE PORTION OF WALL AS SHOWN (INCLUDING, BUT NOT LIMITED TO: DOORS, FRAMES, HARDWARE, WINDOWS, WALL BASE, AND ALL SURFACE MOUNTED ITEMS). SEE PLUMBING, MECHANICAL, AND ELECTRICAL FOR ADDITIONAL WORK/PREP FOR NEW CONSTRUCTION.
- D29 COMPLETELY REMOVE PORTION OF WALL AS REQUIRED FOR INSTALLATION OF NEW DOOR AND FRAME ASSEMBLY.
- D30 COMPLETELY REMOVE HOLLOW METAL WINDOW AND FRAME ASSEMBLY. PREP FOR NEW CONSTRUCTION.
- D31 COMPLETELY REMOVE MODULAR FURNITURE SYSTEM PARTITION AND DOOR. PREP FOR NEW CONSTRUCTION.
- D32 COMPLETELY REMOVE EPOXY TERRAZZO FROM SHADED AREA. UPON REMOVAL, APPLY A SELF-LEVELING CONCRETE FLOOR UNDERLAYMENT (IN ACCORDANCE WITH SPECIFICATION 03540) WITHIN AREA INDICATED ON PLANS. UTILIZE UNDERLAYMENT TO LEVEL FLOOR SUBSTRATE. PREPARE FOR NEW FLOOR FINISHES.
- D33 COMPLETELY REMOVE DOOR AND FRAME ASSEMBLY, AND ALL ASSOCIATED HARDWARE. PREP OPENING AND ADJACENT AREAS AS REQUIRED FOR NEW DOOR AND FRAME IN THIS LOCATION.
- D34 COMPLETELY REMOVE CEILING PANELS AND GRID SYSTEM FROM THE ENTIRE ROOM. EXISTING HVAC EQUIPMENT (DIFFUSERS, EXHAUST FANS, ETC.) TO REMAIN AND BE RE-WORKED INTO NEW CEILING SYSTEM. TEMPORARILY SUPPORT HVAC EQUIPMENT TO REMAIN AS REQUIRED. SEE ELECTRICAL, MECHANICAL, AND PLUMBING FOR ADDITIONAL WORK. PREP FOR NEW CEILING INSTALLATION.
- D35 REMOVE PLASTER OR GYP. BD. CEILING IN ITS ENTIRETY, INCLUDING INTERMEDIATE FRAMING.
- D36 REMOVE SEMI-RECESSED FIRE EXTINGUISHER AND CABINET FOR REINSTALLATION IN NEW LOCATION. SEE EQUIPMENT PLANS.
- D37 REMOVE SURFACE-MOUNTED FIRE EXTINGUISHER AND BRACKET FOR REINSTALLATION IN NEW LOCATION. SEE EQUIPMENT PLANS.
- D38 REMOVE ELECTRIC WATER COOLER. SEE PLUMBING.
- D39 REMOVE ALUMINUM STOREFRONT DOORS AND ALL ASSOCIATED HARDWARE. PREP FOR INSTALLATION OF NEW DOORS AND HARDWARE.
- D40 REMOVE EXISTING SECURITY GATES AND ALL ASSOCIATED HARDWARE. SEE ELECTRICAL. PREP FOR NEW CONSTRUCTION.

## Demolition Plan Keynotes Cont'd

- D41 COMPLETELY REMOVE RESILIENT TILE FLOORING, MASTIC AND WALL BASE FROM ENTIRE ROOM. PREPARE SUBSTRATE AS REQUIRED FOR NEW FLOORING AND BASE (SEE GENERAL NOTES).
- D42 SAWCUT EXISTING CONCRETE SLAB FOR INSTALLATION OF NEW PIPING. PATCH FLOOR WITH NEW CONCRETE. RECESS CONCRETE SURFACE FOR INSTALLATION OF NEW TERRAZZO FLUSH WITH EXISTING ADJACENT SURFACES. PREPARE SUBSTRATE FOR NEW FINISHES.
- D43 REMOVE WATER HEATER. CUT AND CAP ALL PIPING TO BE CONCEALED ABOVE CEILING, IN WALL OR BELOW FLOOR SLAB AS REQUIRED. REMOVE EXISTING CONCRETE HOUSEKEEPING PAD. INFILL WITH SELF-LEVELING CONCRETE FLOOR UNDERLAYMENT. PREP FOR NEW CONSTRUCTION.
- ALT. NO. 5 D44 REMOVE CERAMIC WALL TILE, TOILET PARTITION, AND TOILET ACCESSORIES EXCEPT PAPER TOWEL DISPENSER/ WASTE RECEPTACLE TO REMAIN. EXISTING ELECTRIC WALL HEATER TO REMAIN. PREP FOR NEW CONSTRUCTION.



## General Demolition Notes

1. SEE SPECIFICATIONS SECTION 01738-SELECTIVE DEMOLITION FOR FURTHER REQUIREMENTS OF DEMOLITION WITHIN SCOPE OF WORK.
2. OTHER SHEETS WITHIN THIS DRAWING SET REFER TO ITEMS PERTAINING TO SPECIFIC AREAS OF WORK WHICH NEED TO BE REMOVED AND ARE TO BE INCLUDED WITHIN THE ENTIRE SCOPE OF DEMOLITION ON THE PROJECT. (INCLUDING BUT NOT LIMITED TO STRUCTURAL, PLUMBING, HVAC, ELECTRICAL AND TECHNOLOGY). CONTRACTOR IS NOT RELIEVED OF HIS/HER RESPONSIBILITY FOR ALL WORK INTENDED FOR FAILURE TO REVIEW ENTIRE DOCUMENT SET FOR WORK REQUIRED.
3. COORDINATE ALL DEMOLITION WITH PHASING, ARCHITECT, AND OWNER'S REPRESENTATIVE.
4. WHERE WALLS, FINISHES, EQUIPMENT, MATERIALS, OR CONSTRUCTION OF ANY TYPE IS INDICATED TO BE REMOVED, THE CONTRACTOR IS TO PATCH AND REPAIR ALL SURFACES TO REMAIN TO MATCH EXISTING ADJACENT SURFACES IN ALL ASPECTS. REPAIRED AREAS ARE TO BLEND INTO THE ADJACENT SURFACES AND NOT APPEAR TO BE A PATCH.
5. FOUNDATION WALLS, FOOTINGS, AND CONCRETE SLABS THAT ARE TO BE REMOVED, ARE TO BE REMOVED IN THEIR ENTIRETY.
6. CLEAN AND PREP ALL EXISTING WALL SURFACES TO RECEIVE NEW FINISHES. PATCH AND FILL ANY AREAS AS NEEDED DUE TO RENOVATION WORK OR EXISTING CONDITIONS FOR A LIKE-NEW, SMOOTH, FINISHED SURFACE SEE INTERIOR DRAWINGS FOR ADDITIONAL INFORMATION REGARDING AREAS TO RECEIVE NEW FINISHES.
7. PROVIDE OPENINGS IN WALLS AS REQUIRED TO INSTALL NEW PLUMBING, MECHANICAL, ELECTRICAL, AND TECHNOLOGY THROUGHOUT THE PROJECT AS REQUIRED TO ACCOMPLISH THE ENTIRE SCOPE OF WORK. SEE PLUMBING, HVAC, ELECTRICAL, AND TECHNOLOGY.
8. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS.
9. CONTRACTOR SHALL PROTECT ALL ITEMS AND SURFACES TO REMAIN OR THAT ARE NOT INCLUDED IN RENOVATION SCOPE OF WORK, INCLUDING ALL ITEMS INTERIOR AND EXTERIOR TO THE BUILDING. PROTECT ALL SURFACES AND FINISHES TO REMAIN ADJACENT TO RENOVATION WORK.
10. DEMOLITION DRAWING IS INTENDED TO ASSIST THE CONTRACTOR IN UNDERSTANDING THE GENERAL DEMOLITION REQUIRED THROUGHOUT. CONTRACTOR SHALL REMOVE ANY/ALL ITEMS OR COMPONENTS AS REQUIRED TO COMPLETE THE RENOVATION SCOPE OF WORK, WHETHER OR NOT SPECIFICALLY INDICATED OR NOT.
11. SEE MECHANICAL DRAWINGS FOR FURTHER INFORMATION AND REQUIREMENTS REGARDING DEMOLITION WORK RELATED TO HVAC EQUIPMENT, DUCT WORK, HYDRONIC PIPING, AND TEMPERATURE CONTROLS.
12. SEE PLUMBING DRAWINGS FOR FURTHER INFORMATION AND REQUIREMENTS REGARDING DEMOLITION WORK RELATED TO FIXTURES, SANITARY PIPING, DOMESTIC WATER PIPING, AND GAS PIPING.
13. SEE ELECTRICAL DRAWINGS FOR FURTHER INFORMATION AND REQUIREMENTS REGARDING DEMOLITION WORK RELATED TO LIGHTING, POWER, AND TECHNOLOGY.
14. CONTRACTOR TO PROVIDE AND INSTALL LINTELS AS REQUIRED FOR ALL OPENINGS IN NEW AND EXISTING BUILDING WALLS. REFER TO OTHER SHEETS WITHIN THIS DRAWING SET WHERE OPENINGS MAY BE REQUIRED FOR ANY/ALL TRADES. (SEE LINTEL SCHEDULE)
15. CONTRACTOR IS RESPONSIBLE FOR PATCHING AND REPAIRING ALL INTERIOR AND EXTERIOR SURFACES DISTURBED BY DEMOLITION OR RENOVATION WORK. ALL ADJACENT SURFACES IN ALL ASPECTS TO LIKE-NEW CONDITION, WHETHER PATCHING IS SPECIFICALLY INDICATED OR NOT.
16. CONTRACTOR TO PROTECT ALL HISTORICAL ELEMENTS OF BUILDING DURING CONSTRUCTION WITH THE GREATEST CARE.
17. LIBRARY SHELVING TO BE COMPLETELY REMOVED FOR INSTALLATION OF NEW CARPET BY FURNITURE/ SHELVING CONTRACTOR AS PART OF CASH ALLOWANCE PRIME. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND COORDINATION.

**NOTE:**  
EXISTING EPOXY TERRAZZO FLOORING IS LOCATED IN VARIOUS LOCATIONS THROUGHOUT THE EXISTING LIBRARY (SEE LIST OF ROOMS BELOW). THE INTENT OF THE PROJECT IS TO MAINTAIN THE EXISTING EPOXY TERRAZZO FLOORING EXCEPT IN AREAS OF NEW CONSTRUCTION OR WHERE THE EPOXY TERRAZZO IS BEING SAWCUT FOR NEW PLUMBING OR ELECTRICAL WORK. REFER TO FINISH PLAN FOR LOCATIONS WHERE TERRAZZO WILL REMAIN AS FINISHED FLOOR. IN AREAS OF NEW CONSTRUCTION, IF UPON REALIGNMENT OF ROOMS, EXISTING FLOOR SLAB IS EXPOSED ADJACENT TO THE EXISTING EPOXY TERRAZZO, UNDERLAYMENT SHALL BE APPLIED TO LEVEL FLOOR SUBSTRATE FOR NEW SPECIFIED FLOOR FINISH.

**ROOMS WITH EXISTING EPOXY TERRAZZO**  
NORTH VESTIBULE  
MEN'S RESTROOM (BOTH SETS)  
WOMEN'S RESTROOM (BOTH SETS)  
STAFF CORRIDOR  
SOUTH VESTIBULE  
CORRIDOR TO EXISTING MEETING ROOM  
LOUNGE  
KITCHEN

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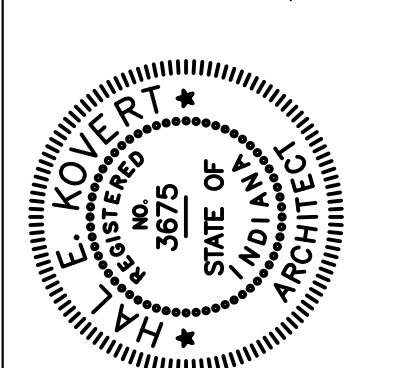
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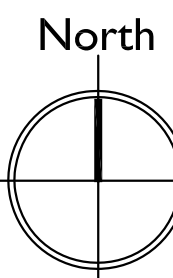
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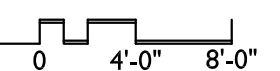
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Sheet  
**A-001**



Demolition Plan

full size plot scale: 1/8"=1'-0"



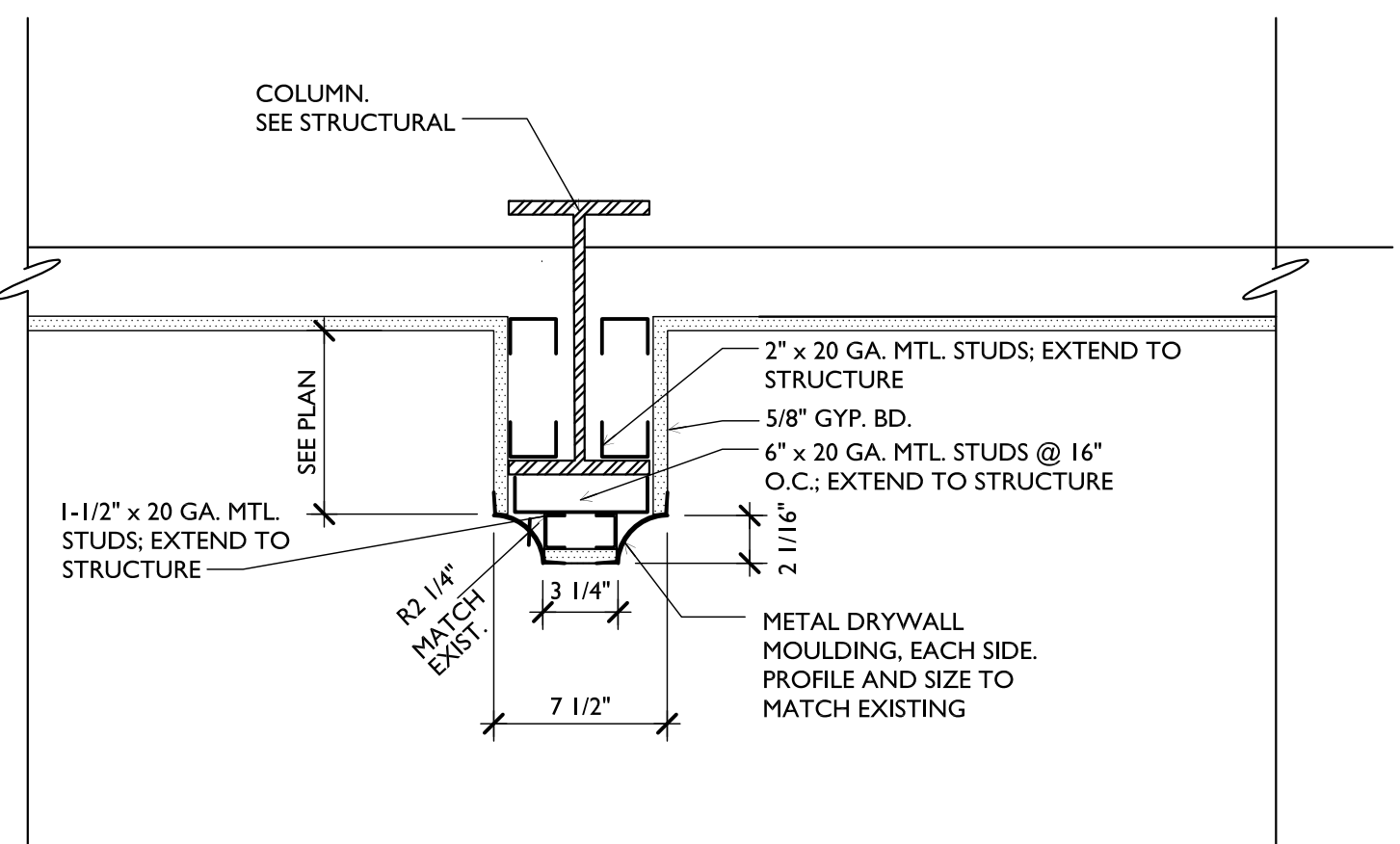
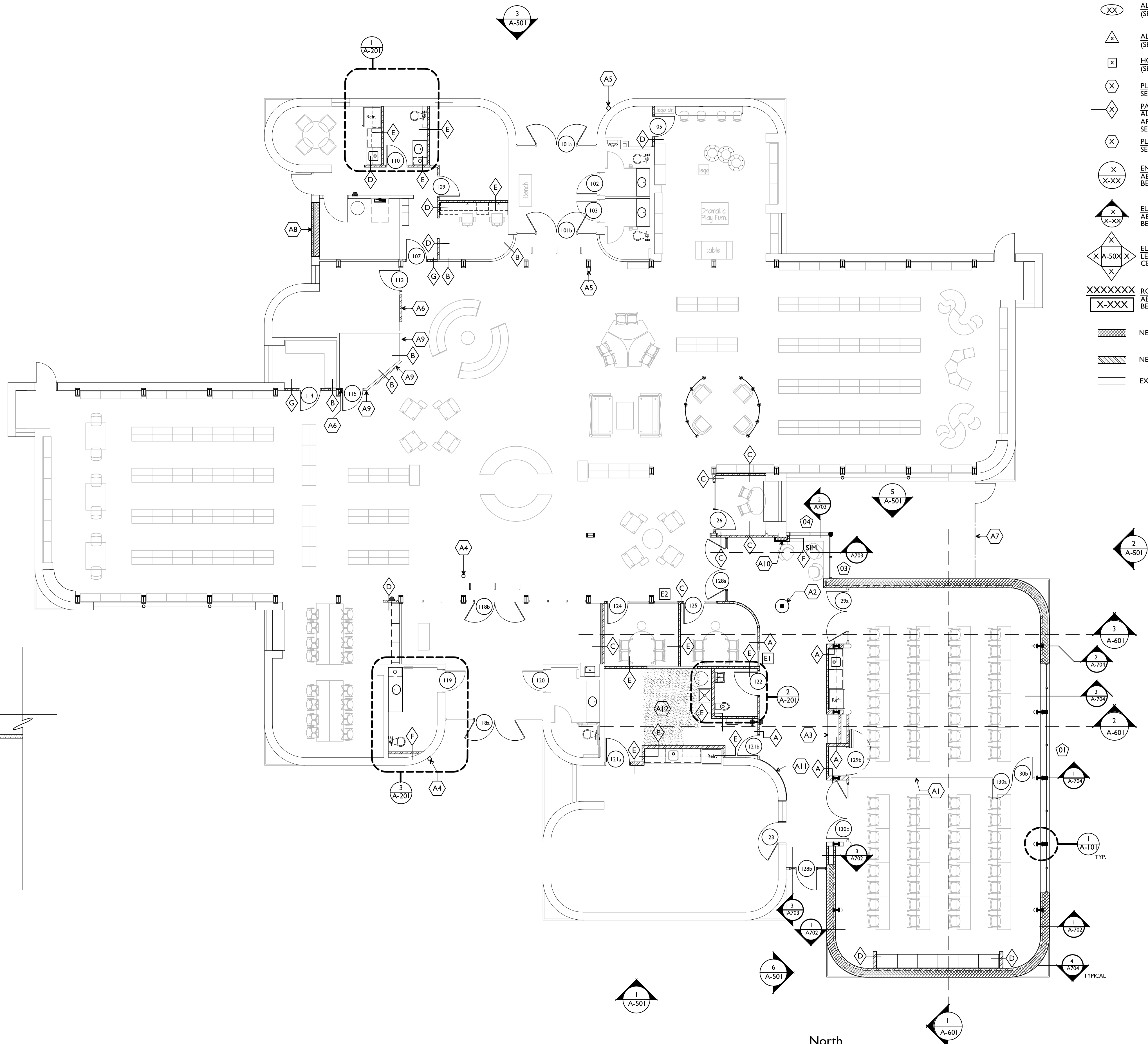


## General Plan Notes

- AT ALL EXISTING BUILDING AREA TO RECEIVE MAJOR FINISHES UPGRADES AND REPLACEMENTS. SAND AND PREP SMOOTH ALL EXISTING WALL SURFACES WITHIN ROOM TO RECEIVE NEW FINISH PAINT. SAND, GRIND, BUFF, BEAD BLAST, ETC. ALL FLOOR SURFACES ARE REQUIRED TO REMOVE GLUES, MASTICS, CURINGS, ETC.; FILL ALL VOIDS, HOLES, OPENINGS, REMOVE ALL TEXTURES, BUMPS, DEPRESSIONS, ETC. IN ALL SURFACES TO BE LIKE NEW FINISHED SURFACES (SEE FINISH PLANS)
- PROTECT EXISTING SURFACES AND FINISHES TO REMAIN ADJACENT TO AREA OF RENOVATION SO THAT NEW FINISHES AND SURFACES OF NEW CONSTRUCTION MAY BLEND INTO EXISTING SURFACES; EXTEND NEW FINISHES AND SURFACES TO CORNER OR EDGE OF WALL OR FLOOR SO THAT NEW AND EXISTING MAY BLEND WITHOUT TRUE VISIBLE DIFFERENCES

## Architectural Plan Keynotes

- A1 OPERABLE PARTITION WALL SYSTEM. SEE A-902
- A2 COLUMN ENCLOSURE TO BE INSTALLED BY CONTRACTOR. SEE I/A901.
- A3 BUILT-IN BENCH. SEE DETAIL 2/A-901
- A4 POLE MOUNTED ADA PUSH BUTTON FOR AUTOMATIC DOORS. (SEE SPECIFICATION SECTION 08740)
- A5 SURFACE-MOUNTED ADA PUSH BUTTON FOR AUTOMATIC DOORS. SEE SPECIFICATION SECTION 08740 AND ELECTRICAL
- A6 INFILL EXISTING OPENING WITH 20 GAUGE METAL STUDS AT 16" O.C. AND 2 LAYERS OF 5/8" GYP. BD. ON EACH SIDE. CONTRACTOR TO FIELD VERIFY STUD DEPTH; MATCH EXISTING.
- A7 FENCE. SEE CIVIL.
- A8 INFILL EXISTING OPENING WITH 8" CMU AND SALVAGED BRICK VENEER. INSTALL 1-1/2" RIGID INSULATION OVER CMU IN WALL CAVITY.
- A9 INFILL EXISTING OPENING ABOVE PARTIAL HEIGHT STUD WALL WITH 20 GAUGE METAL STUDS AT 16" O.C. AND 2 LAYERS OF 5/8" GYP. BD. ON EACH SIDE. EXTEND PARTITION TO GYP. BD. CEILING. CONTRACTOR TO FIELD VERIFY STUD DEPTH; MATCH EXISTING.
- A10 FURR OUT CMU PILASTER WITH 20 GAUGE X 1-1/2" FURRING CHANNELS AND 5/8" GYP. BD.
- A11 FURR OUT EXISTING CMU PILASTER WITH 20 GAUGE X 7/8" FURRING CHANNELS AND 1/2" GYP. BD. FROM FINISHED FLOOR UP TO 3'-4" A.F.F. PROVIDE "FLEX TRIM" BY "CARTER MILLWORK" POLYURETHANE FLEXIBLE BASE CAP "MS287" OR APPROVED EQUAL AT TOP EDGE TO CONCEAL TRANSITION BETWEEN DIFFERING MATERIALS
- A12 INFILL SHADED AREA WITH SELF-LEVELING CONCRETE FLOOR UNDERLAYMENT. NEW SURFACES SHALL BE FLUSH WITH EXISTING ADJACENT SURFACES. PREP FOR NEW FLOOR FINISH.



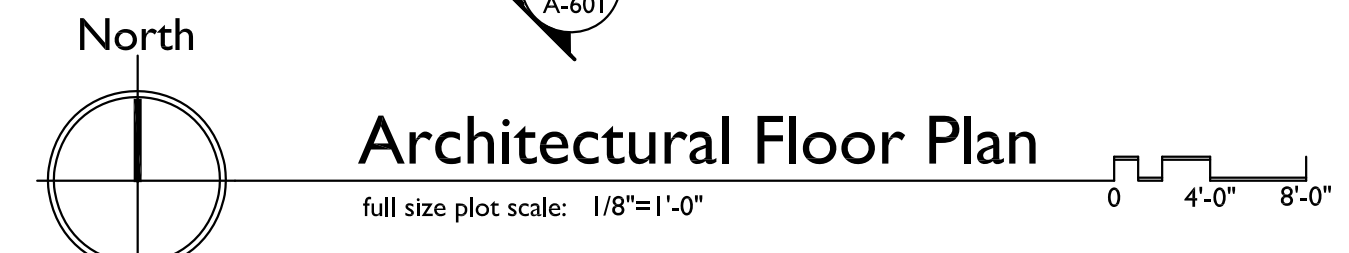
**Column Enclosure Plan Detail**

I/A-101 full size plot scale: 1-1/2"=1'-0"

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## Symbol Legend

- ⊗ DOOR IDENTIFICATION. (SEE DOOR SCHEDULE ON SHEET A-801)
- ⊗ ALUMINUM STOREFRONT FRAME IDENTIFICATION. (SEE ELEVATIONS ON SHEET A-801)
- ⊗ ALUMINUM CURTAIN WALL FRAME IDENTIFICATION. (SEE ELEVATIONS ON SHEET A-801)
- △ ALUMINUM WINDOW FRAME IDENTIFICATION. (SEE ELEVATIONS ON SHEET A-801)
- ⊗ HOLLOW METAL FRAME IDENTIFICATION. (SEE ELEVATIONS ON SHEET A-801)
- ⊗ PLAN KEYNOTE. SEE NOTES INDICATED ON EACH SHEET
- ◇ PARTITION WALL TYPE. ALL WALLS NOT INDICATED AS PARTITIONS ARE FULL HEIGHT BEARING WALLS. SEE SECTIONS FOR CONDITIONS
- ⊗ PLAN KEYNOTE. SEE NOTES INDICATED ON EACH SHEET
- ⊗ ENLARGED PLAN MARKER. ABOVE - DETAIL NUMBER BELOW - SHEET REFERENCE
- ⊗ ELEVATION MARKER. ABOVE - DETAIL NUMBER BELOW - SHEET REFERENCE
- ⊗ ELEVATION MARKER. LETTER - DETAIL REFERENCE CENTER - SHEET REFERENCE
- XXXXXXXX ROOM IDENTIFICATION. ABOVE - ROOM NAME BELOW - ARCHITECTURAL ROOM NUMBER
- X-XXX
- ▨ NEW CMU PARTITION. SEE A901
- ▨ NEW METAL STUD PARTITION. SEE A901
- EXISTING WALL TO REMAIN



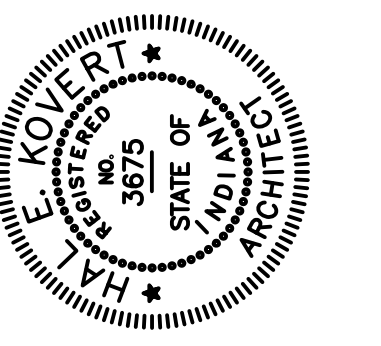
**Architectural Floor Plan**

full size plot scale: 1/8"=1'-0"



**KovertHawkins**  
 architects

Drawn	AH
Checked By	HK
Project No.	1723.02
Date	12/07/2017



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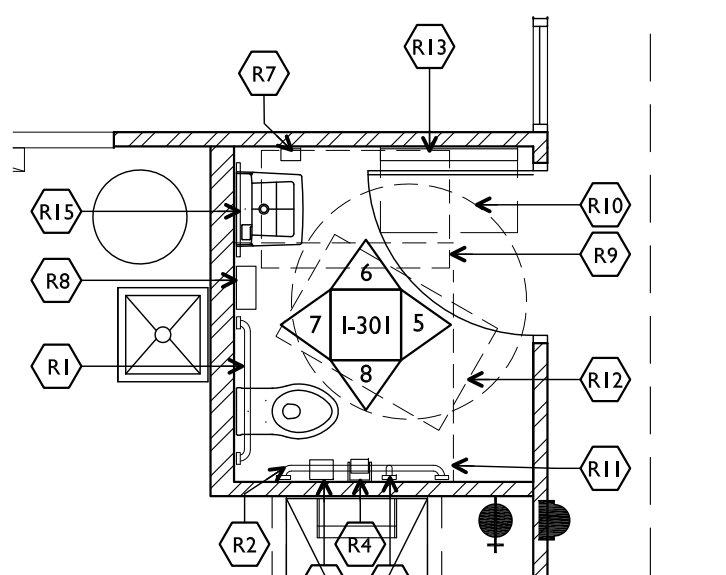


**Restroom Keynotes**

- R1 REAR WALL GRAB BAR (36" HORIZ.)- SURFACE-MOUNTED, MOUNT PER ADA
- R2 SIDE WALL GRAB BAR (42" HORIZ.)- SURFACE-MOUNTED, MOUNT PER ADA
- R3 SIDE WALL GRAB BAR (18" VERT.)- SURFACE-MOUNTED, MOUNT PER ADA
- R4 TOILET PAPER DISPENSER- OWNER-FURNISHED, CONTRACTOR INSTALLED SURFACE-MOUNTED, MOUNT PER ADA COORDINATE WITH GRAB BARS AND SANITARY NAPKIN DISPOSAL IF APPLICABLE
- R5 SANITARY NAPKIN DISPOSAL- SURFACE-MOUNTED, MOUNT PER ADA COORDINATE WITH GRAB BARS AND TOILET PAPER DISPENSER IF APPLICABLE
- R6 40"X36" MIRROR- SURFACE-MOUNTED, MOUNT PER ADA COORDINATE WITH LAVATORY AND FAUCET
- R7 SOAP DISPENSER- OWNER-FURNISHED, CONTRACTOR-INSTALLED SURFACE-MOUNTED, MOUNT PER ADA COORDINATE WITH PAPER TOWEL DISPENSER
- R8 PAPER TOWEL DISPENSER- SURFACE-MOUNTED, MOUNT PER ADA COORDINATE WITH SOAP DISPENSER
- R9 CLEAR FLOOR SPACE- 30"x48" SPACE AT LAVATORY
- R10 CLEAR FLOOR SPACE- 60" DIAMETER WHEELCHAIR TURNING SPACE
- R11 CLEAR FLOOR SPACE- 36" x 60" SPACE AT WATER CLOSET
- R12 CLEAR FLOOR SPACE- 30" x 48" SPACE ALLOWED IN SINGLE OCCUPANCY ROOM BEYOND DOOR SWING
- R13 DIAPER CHANGING STATION- SURFACE-MOUNTED, MOUNT PER ADA
- R14 EXISTING SEMI-RECESSED PAPER TOWEL DISPENSER/ WASTE RECEPTACLE- TO REMAIN IN PLACE, COORDINATE NEW FINISHES ACCORDINGLY
- R15 24"X36" MIRROR- SURFACE-MOUNTED, MOUNT PER ADA COORDINATE WITH LAVATORY AND FAUCET

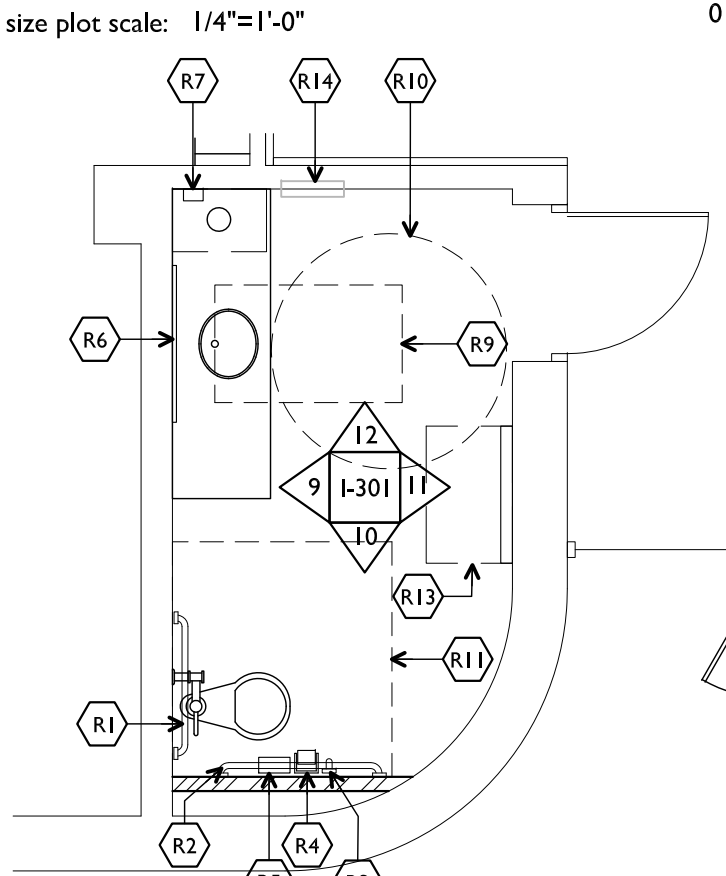
**Staff Restroom 110 Enlarged Plan**

1 A-201 full size plot scale: 1/4"=1'-0"



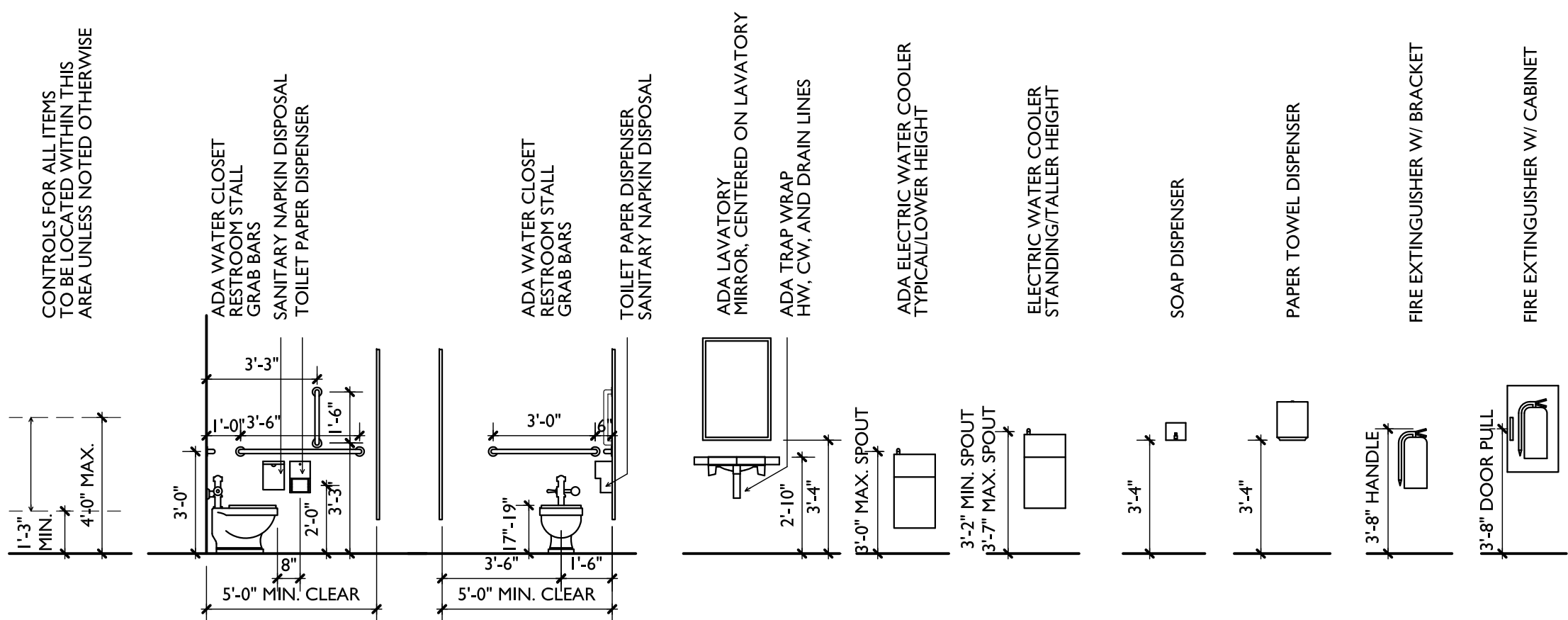
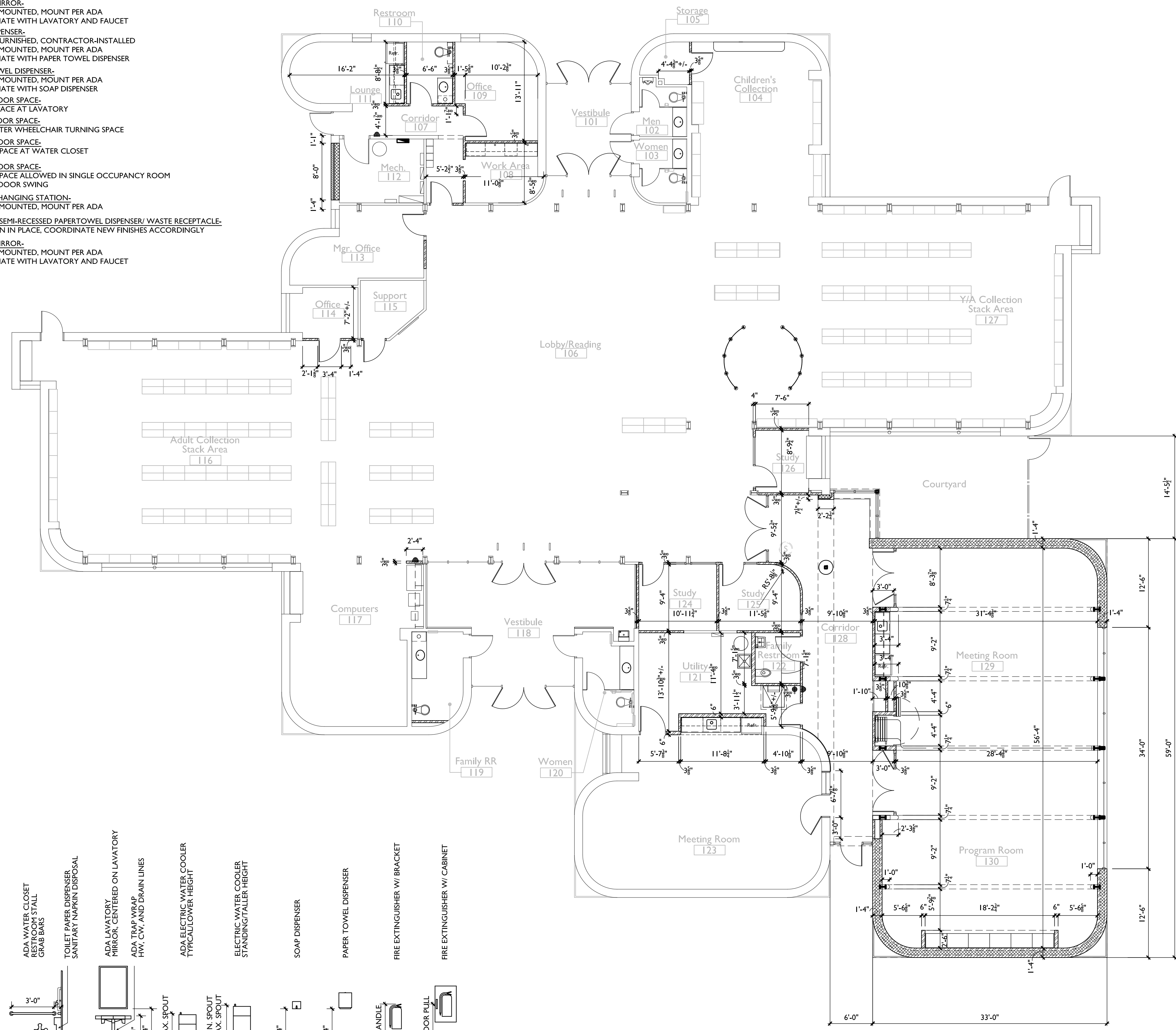
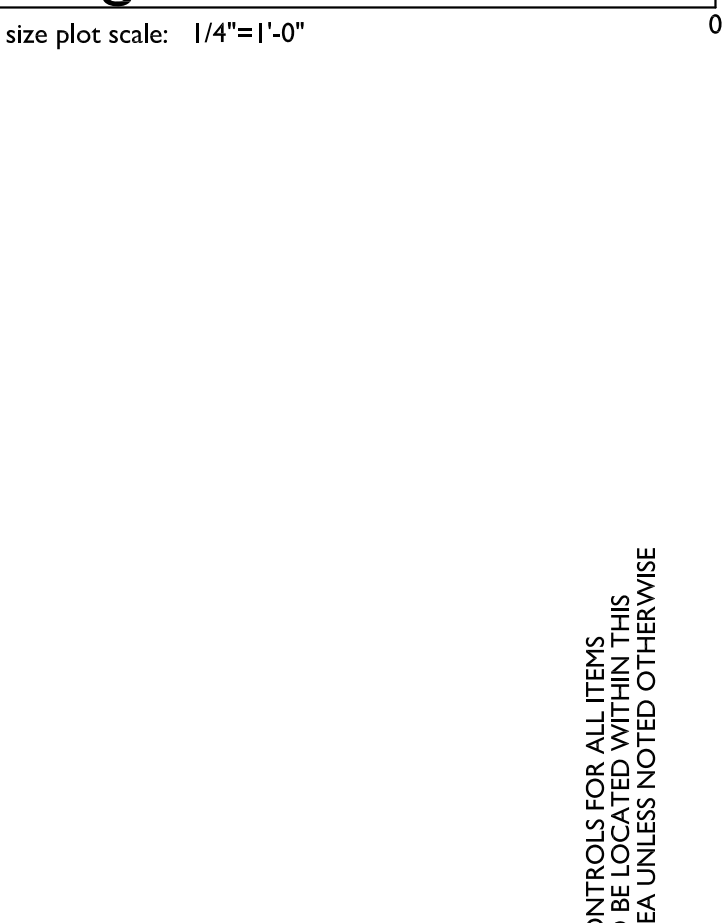
**Existing Family R/R 122 Enlarged Plan - Alt. No 4**

2 A-201 full size plot scale: 1/4"=1'-0"



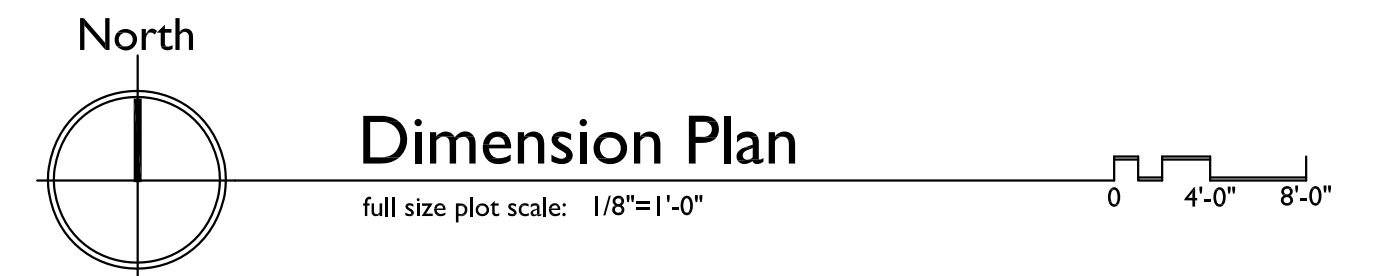
**Existing Family R/R 119 Enlarged Plan - Alt. No. 5**

3 A-201 full size plot scale: 1/4"=1'-0"



**Mounting Heights - Typical Height**  
SCALE: 1/4"=1'-0"

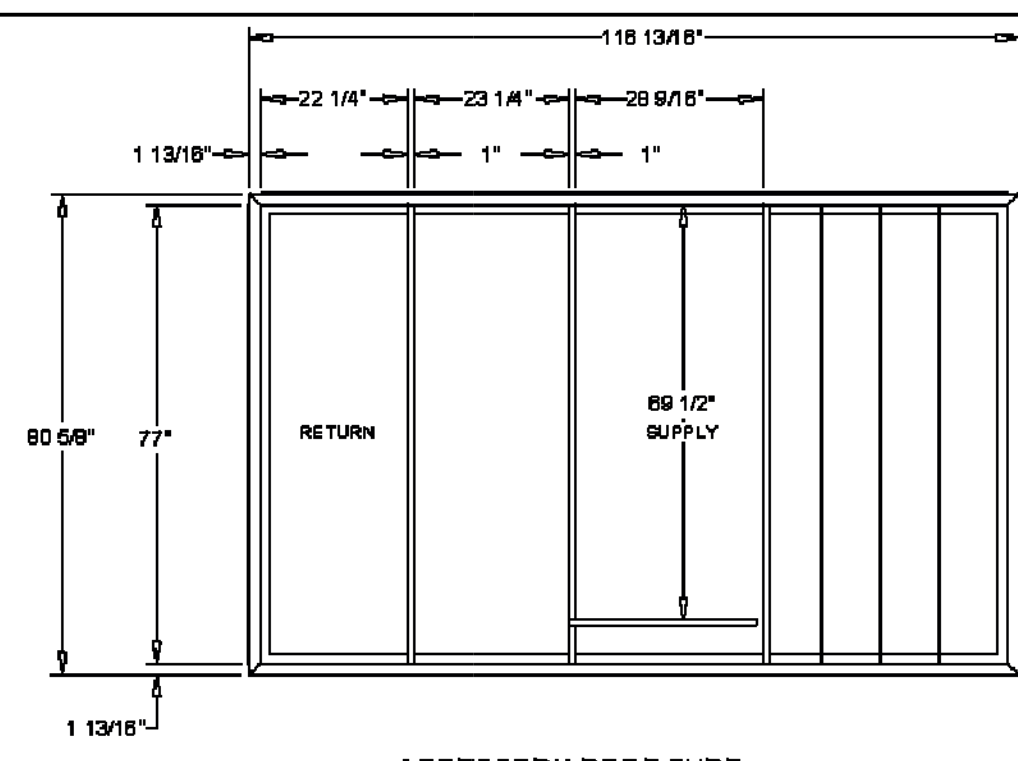
NOTE: INSTALLATIONS SHALL COMPLY WITH ALL CURRENT GOVERNING CODES AND ADA REQUIREMENTS FOR MOUNTING HEIGHTS



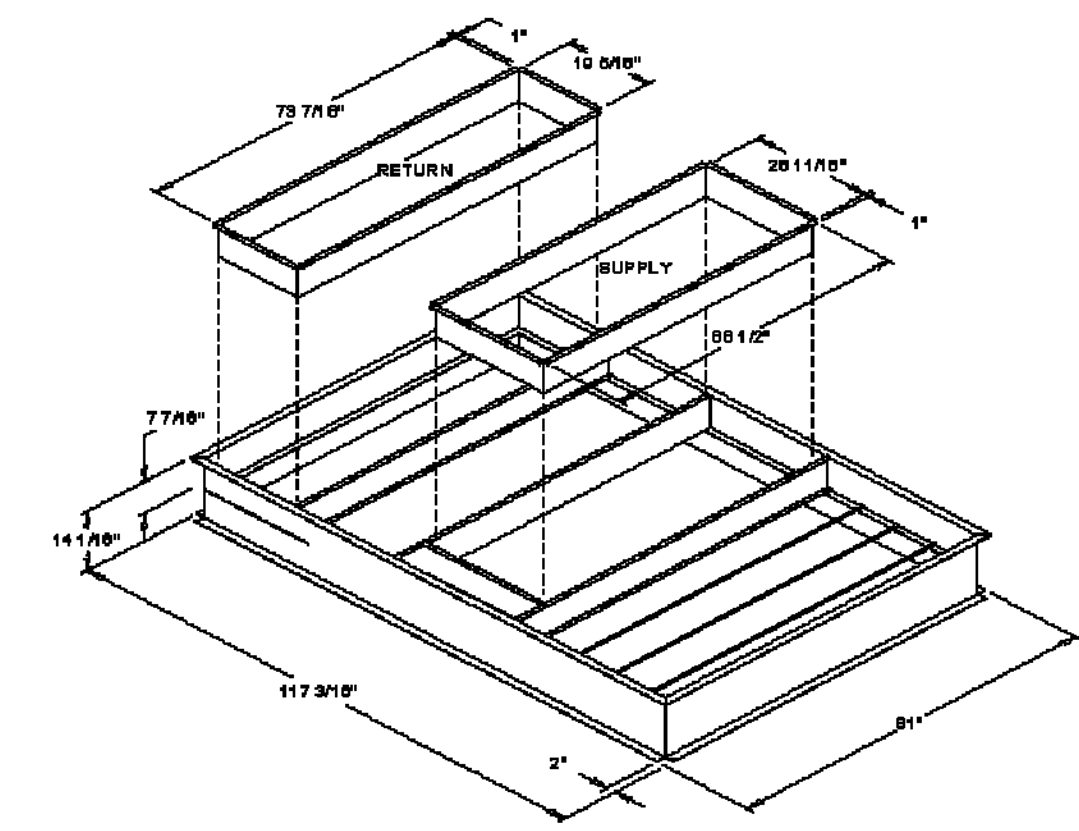
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1/8" = 1'





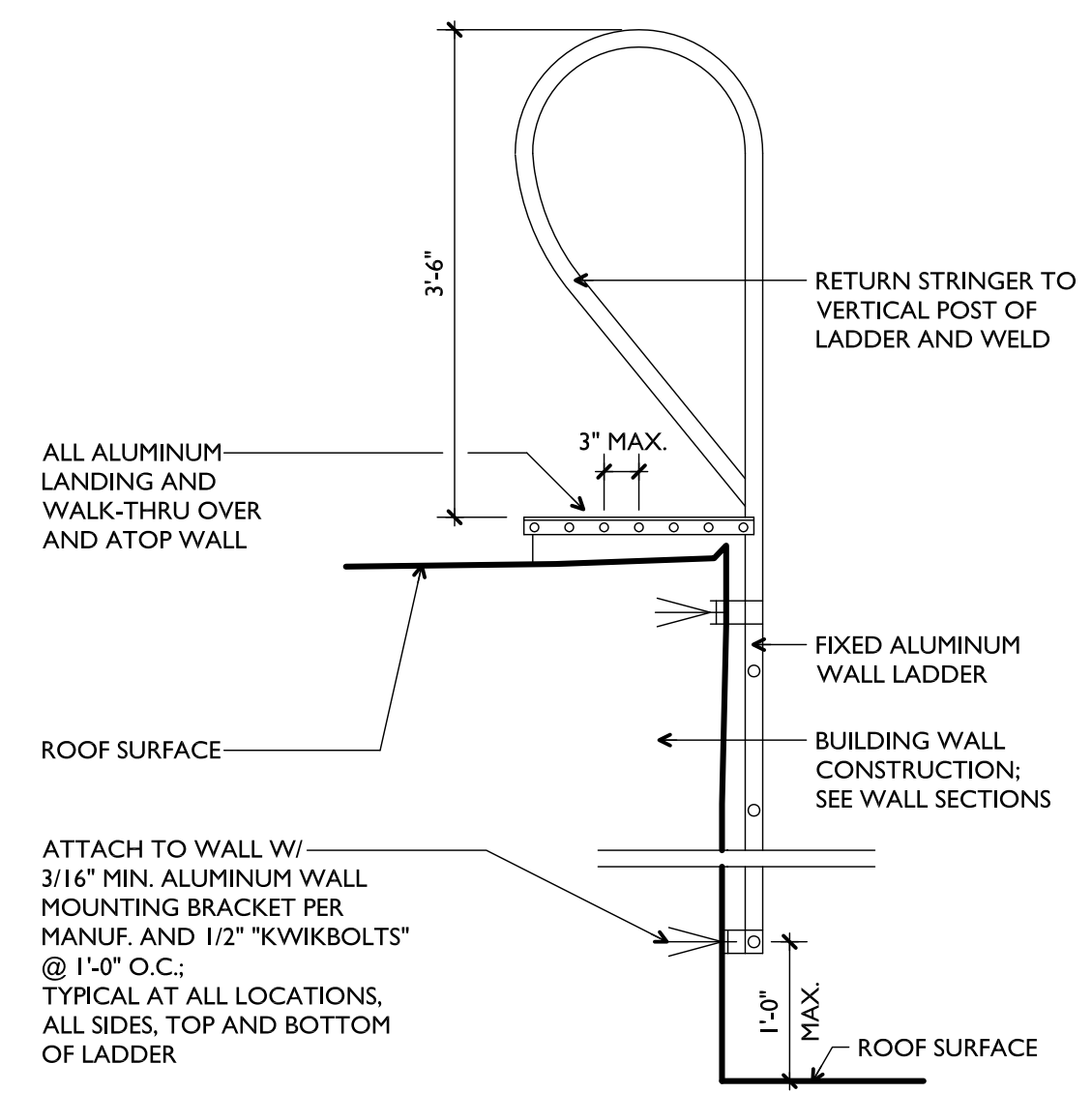
ACCESSORY-ROOF CURB



ACCESSORY-DOWNFLOW DUCT CONNECTIONS

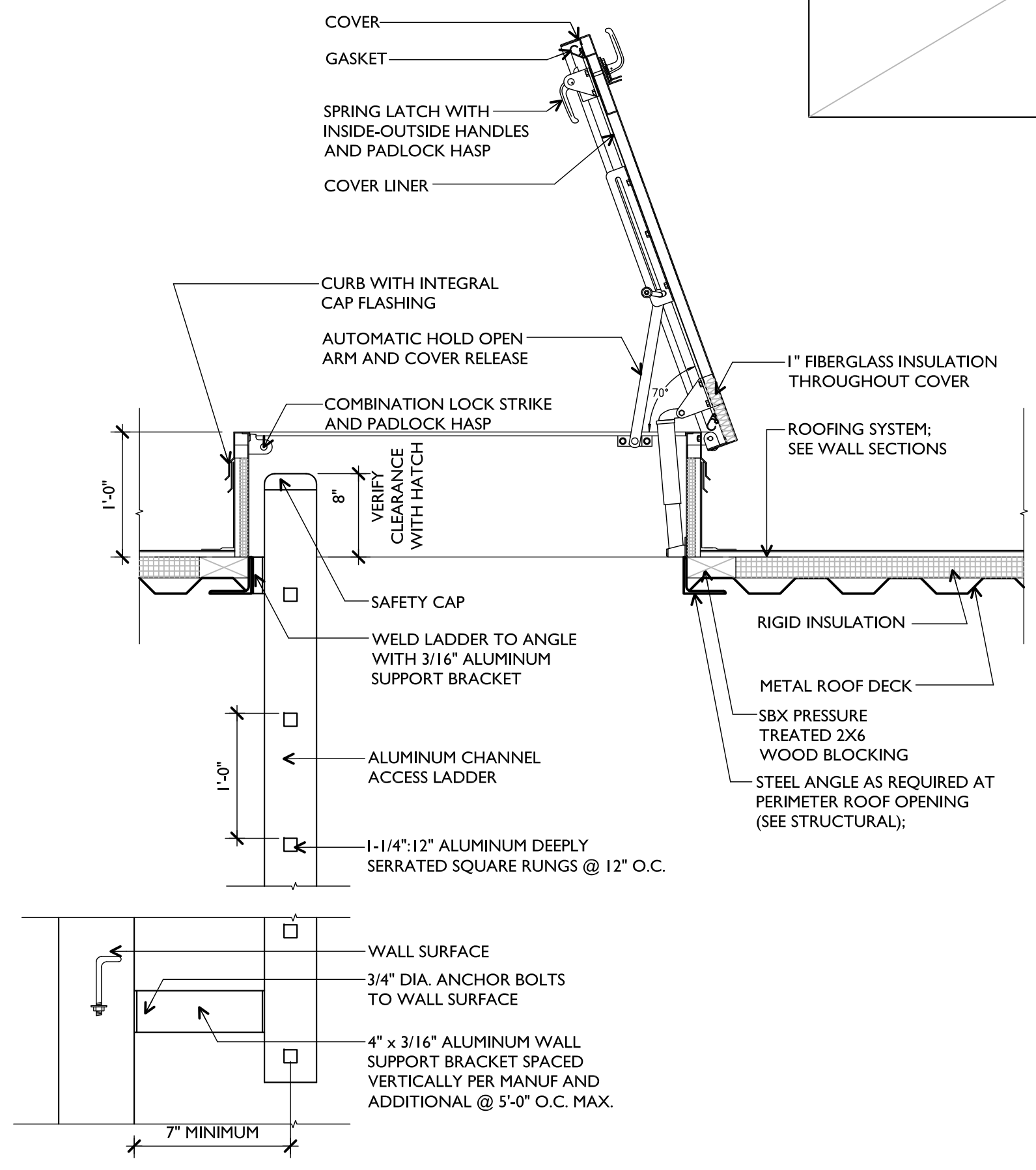
**1**  
A-301  
**Rooftop Unit Support System**

full size plot scale: NOT TO SCALE  
NOTE: SEE MECHANICAL DRAWINGS FOR SPECIFIC LOCATION AND SIZE. 1/A-301 IS PROVIDED FOR INFORMATION ONLY.



**2**  
A-301  
**Fixed Alum. Wall Ladder**

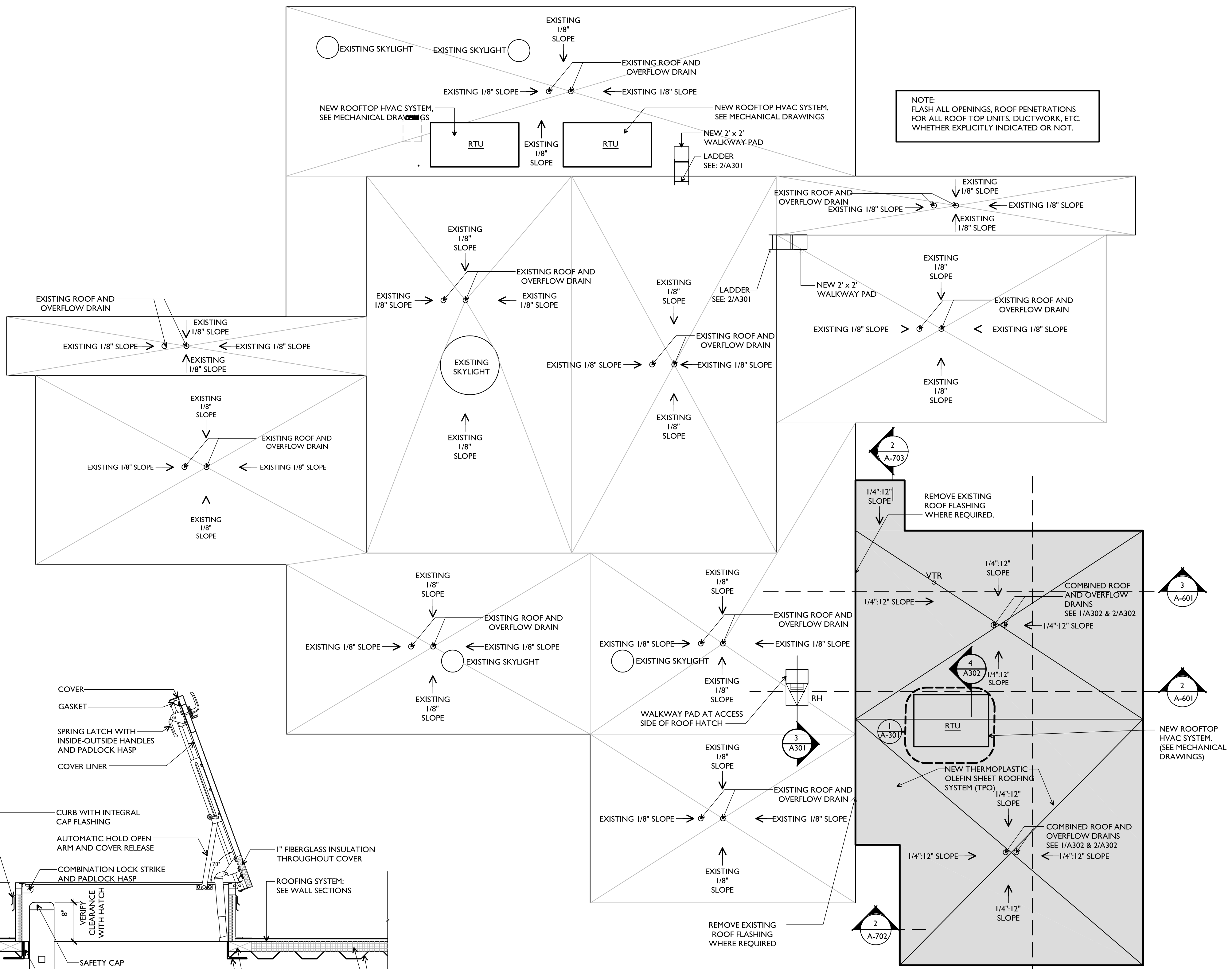
full size plot scale: NOT TO SCALE



**3**  
A-301  
**Roof Hatch (RH) Scuttle and Access Ladder**

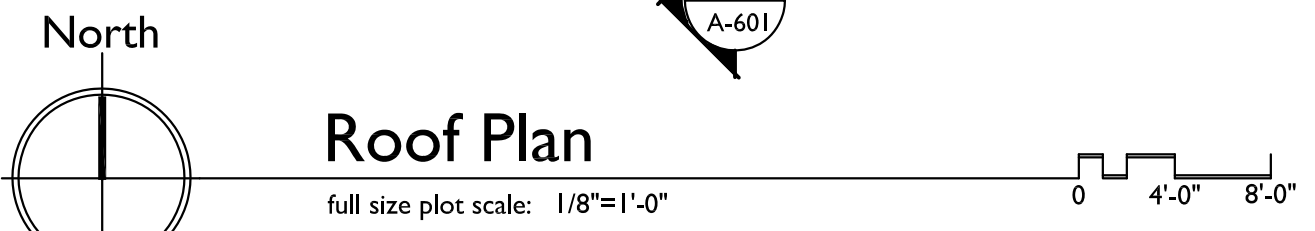
full size plot scale: 1" = 1'-0"

NOTE: SEE SPEC. SECTION 07725 FOR HATCH TYPE, SIZE AND RELATED COMPONENTS AND ACCESSORIES



**Roof Plan Legend**

	TAPERED INSULATION ON FLAT/LEVEL STRUCTURE MIN SLOPE 1/4":12"
	VTR SANITARY VENT THRU ROOF (SEE DETAIL 3 / A-302)
	RD/OD COMBINED ROOF DRAIN AND OVERFLOW DRAIN (SEE DETAILS 1, 2, & 5 / A-302)
	PLUMBING VENT PIPE
	EF MECHANICAL EXHAUST FAN
	RTU ROOF TOP UNIT (SEE DETAIL 4/A-302, FOR CURB) PROVIDE WALKWAY PADS. SEE NOTE 4.
	EX EXISTING
	TPO ROOF SYSTEM OVER NEW CONSTRUCTION



**Roof Plan Notes**

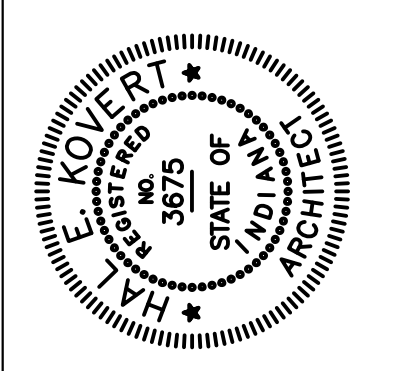
- REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING ITEMS SHOWN ON THE ROOF PLAN.
- REFER TO BUILDING AND WALL SECTIONS FOR ADDITIONAL INFORMATION AND COORDINATION.
- PROVIDE TAPERED INSULATION CRICKET AT HIGH SIDE OF ALL ROOF CURBS THROUGHOUT.
- PROVIDE WALK PADS AT TOP AND BOTTOM OF LADDERS, SERVICE SIDES OF MECH EQUIP AND WHERE INDICATED GRAPHICALLY ON PLAN.
- SERVICE SIDES OF ALL ROOFTOP EQUIPMENT TO BE LOCATED 10'-0" MINIMUM FROM ALL ROOF EDGES.
- SEE ALTERNATE NO. 2 FOR WORK ASSOCIATED WITH THE RE-FINISHING OF THE EXTERIOR INSULATION AND FINISH SYSTEM.

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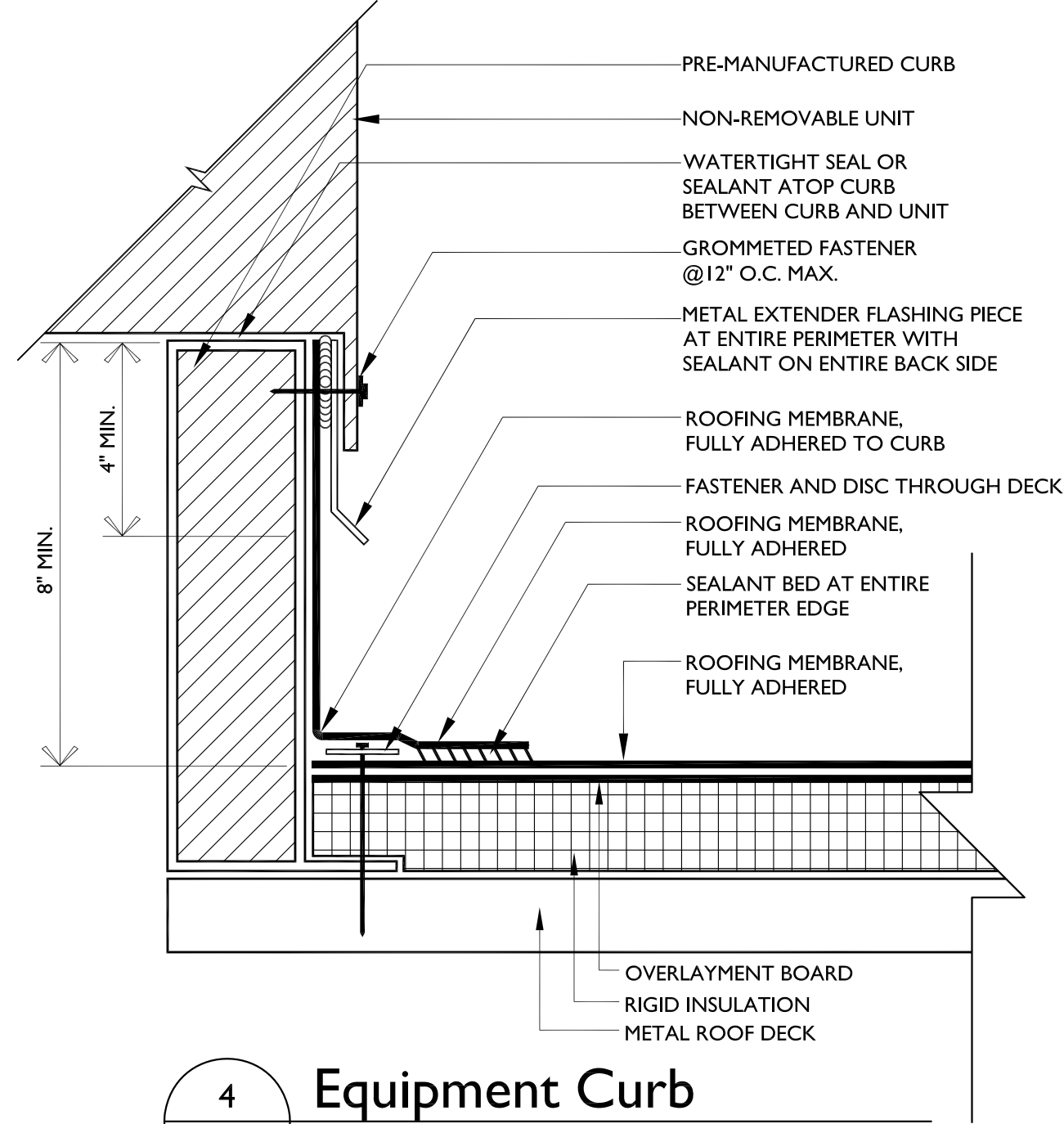
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1723.02  
Project No.  
12/07/2017  
Date



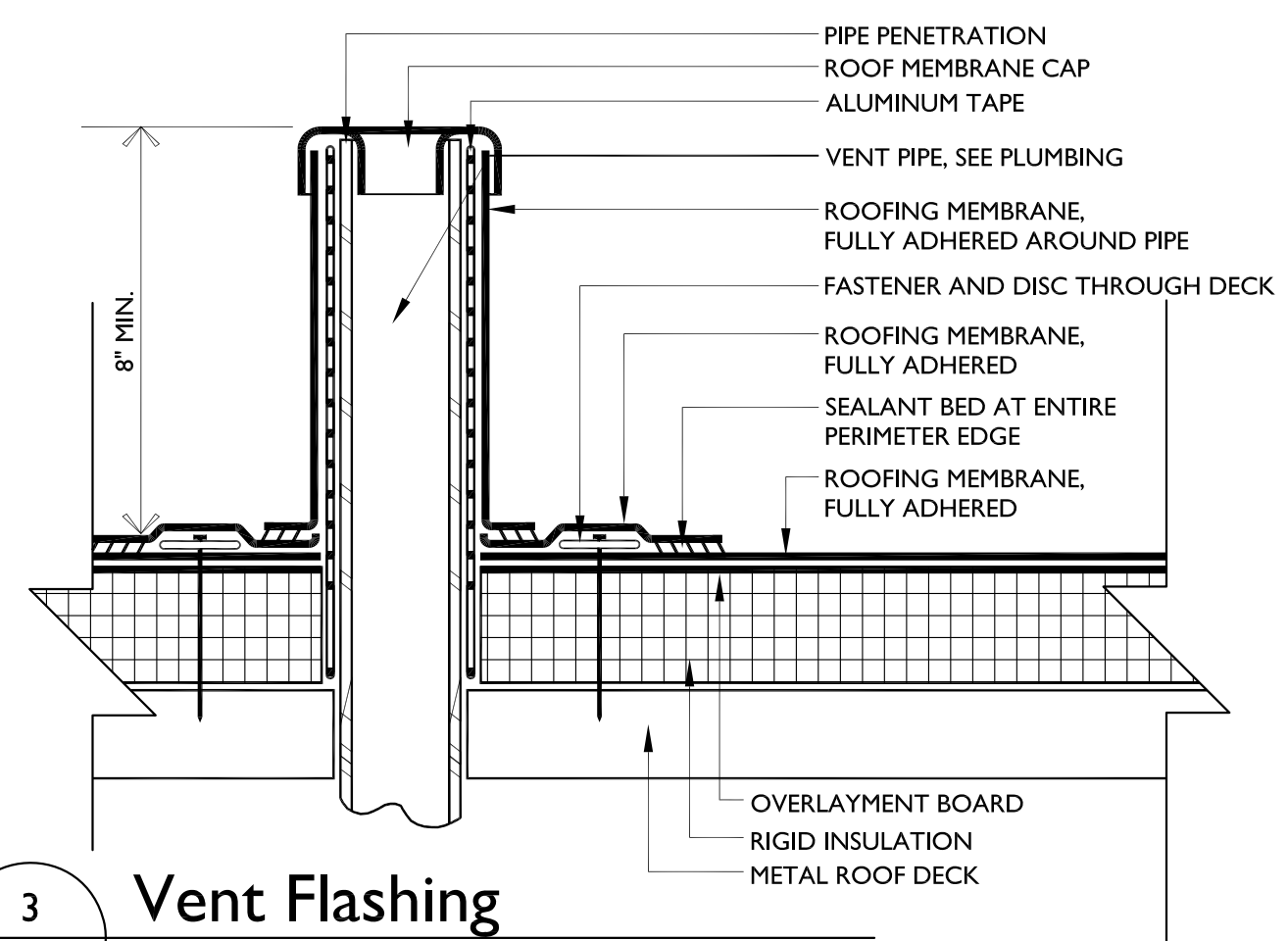
**2018 Renovation & Addition**  
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Sheet  
**A-301**





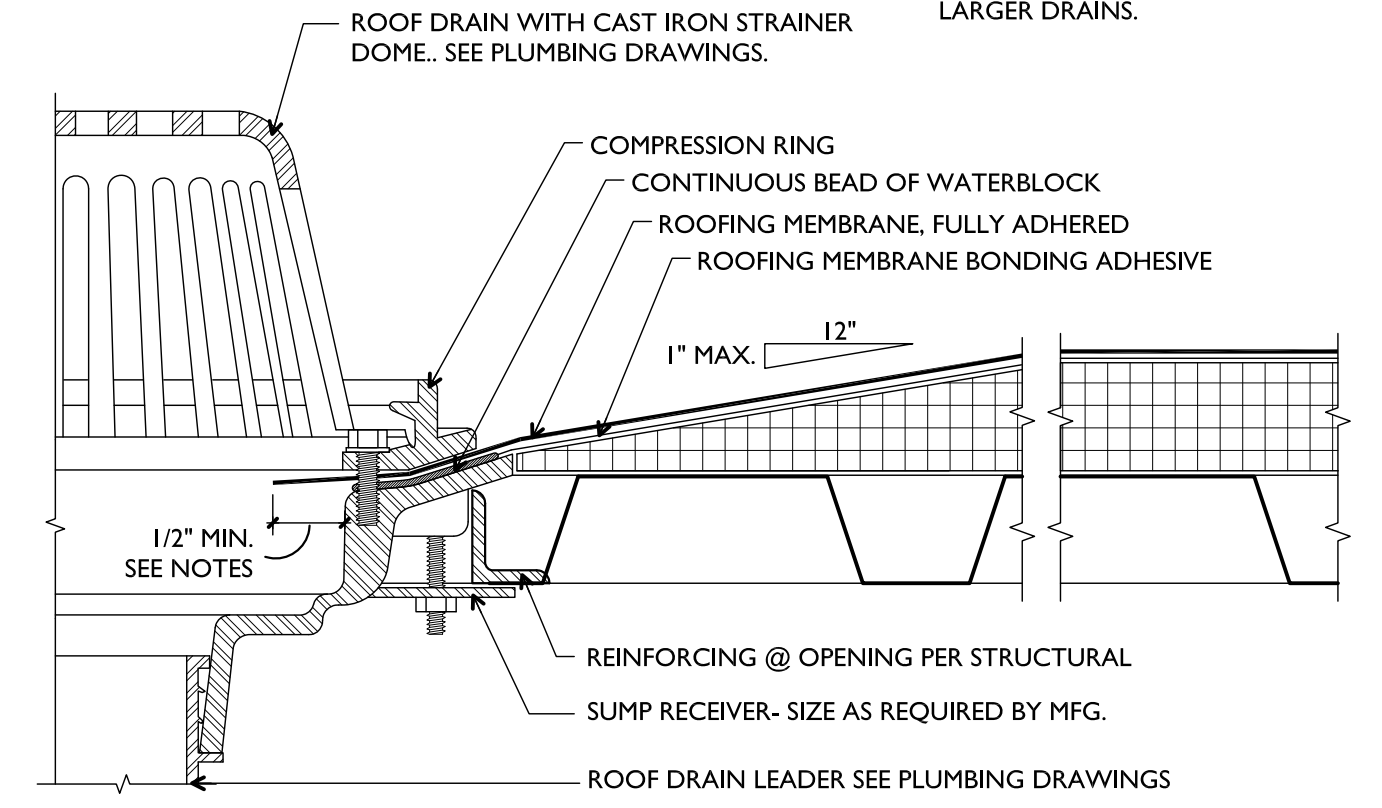
**4 Equipment Curb**  
A-302 full size plot scale: NOT TO SCALE



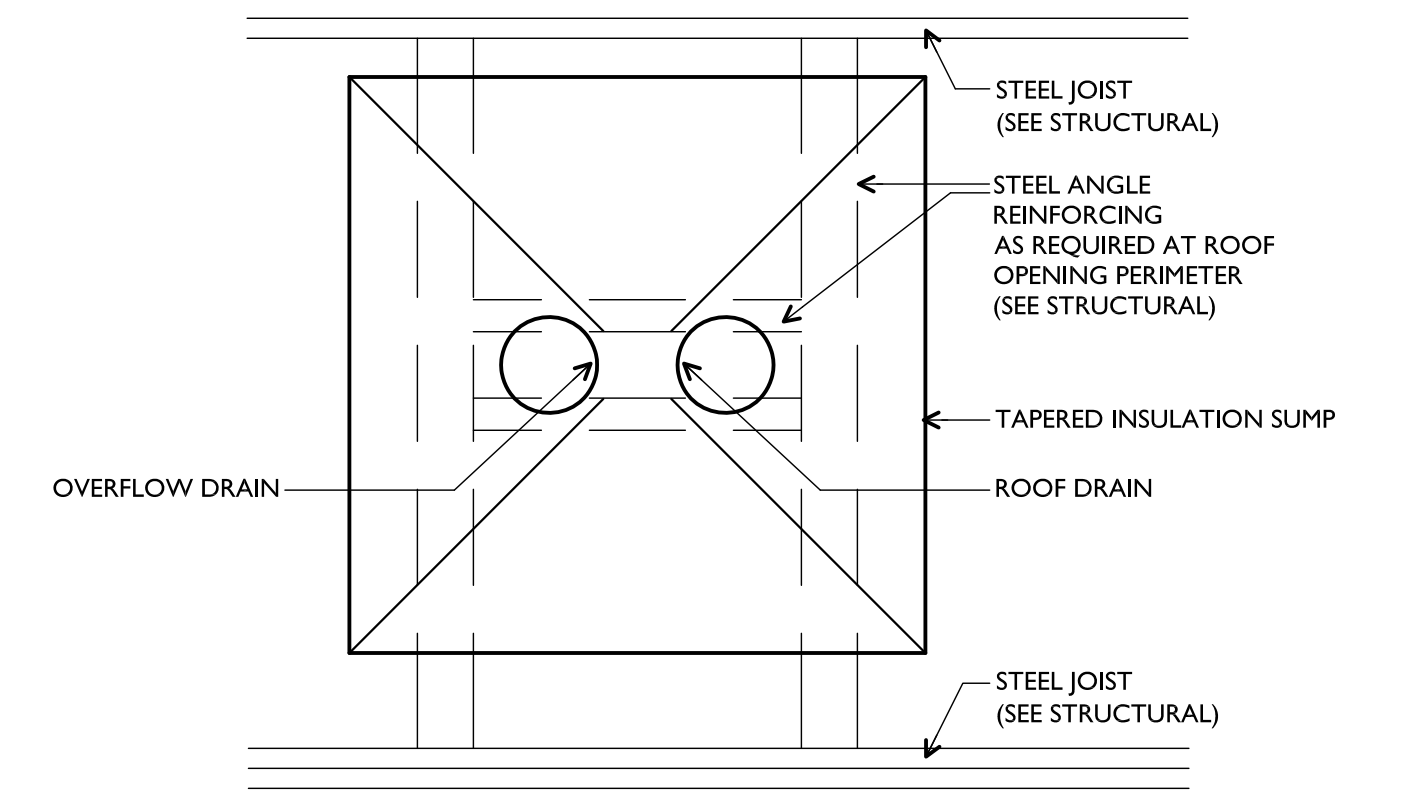
**3 Vent Flashing**  
A-302 full size plot scale: NOT TO SCALE

NOTE: PROVIDE WHERE REQUIRED BY MECHANICAL DRAWINGS ON BOTH NEW AND EXISTING ROOF SYSTEMS

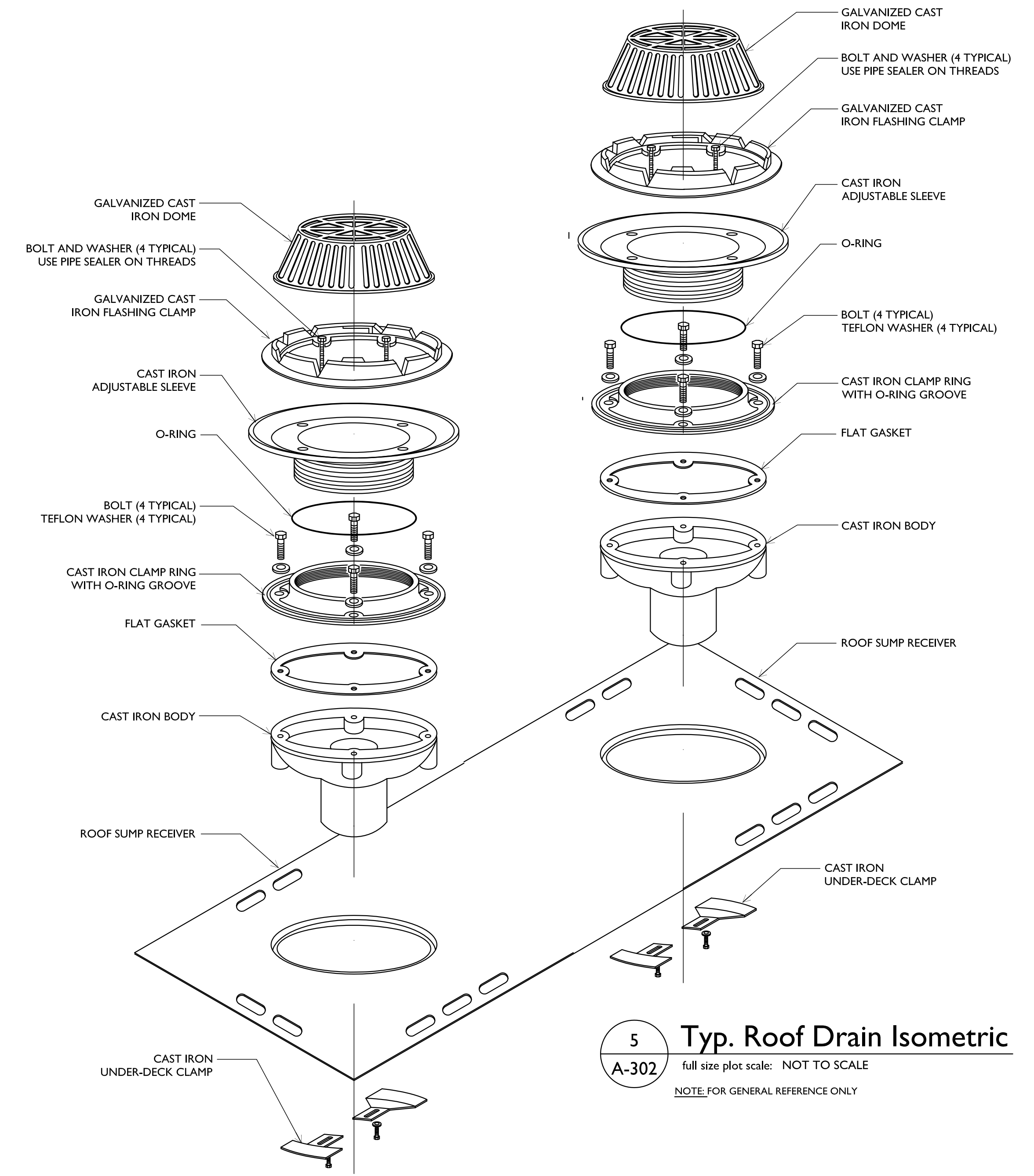
- SUMP AREA FIELD SEAM REQUIREMENTS:**
- IF FIELD SEAM EDGE IS WITHIN 9" OF DRAIN COMPRESSION RING, TPO TARGET PATCH REQUIRED.
  - IF FIELD SEAM EDGE IS WITHIN 9" TO 18" OF DRAIN COMPRESSION RING, FULLY ADHERE A LAYER OF ROOFING MEMBRANE FLASHING OR MEMBRANE CENTERED OVER SEAM EDGE. FLASHING MUST EXTEND 3" MIN. BEYOND EDGE OF SUMP.
- ROOF DRAIN NOTES:**
- HOLE IN MEMBRANE SHOULD EXTEND A MINIMUM OF 1/2" BEYOND CLAMPING RINGS AND SHOULD NOT BE SMALLER THAN THE DIAMETER OF THE LEADER PIPE.
  - INSULATION ADJACENT TO DRAIN TO HAVE APPROPRIATE BONDING SURFACE.
  - USE ROOF MFR. WATERBLOCK SEALANT, MINIMUM OF 5 OZ PER 4" DRAIN. USE ADDITIONAL WATERBLOCK FOR LARGER DRAINS.



**2 Roof Drain Detail**  
A-302 full size plot scale: NOT TO SCALE



**1 Combination Roof Drain & Overflow Plan**  
A-302 full size plot scale: NOT TO SCALE



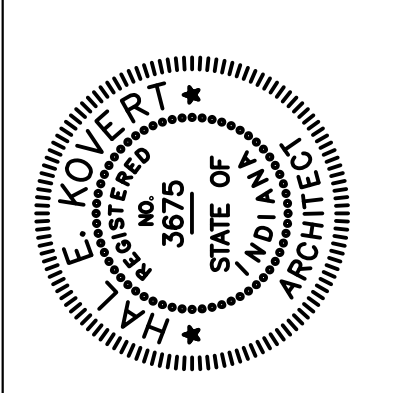
**5 Typ. Roof Drain Isometric**  
A-302 full size plot scale: NOT TO SCALE  
NOTE: FOR GENERAL REFERENCE ONLY

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Date	12/07/2017



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## Reflected Ceiling Notes

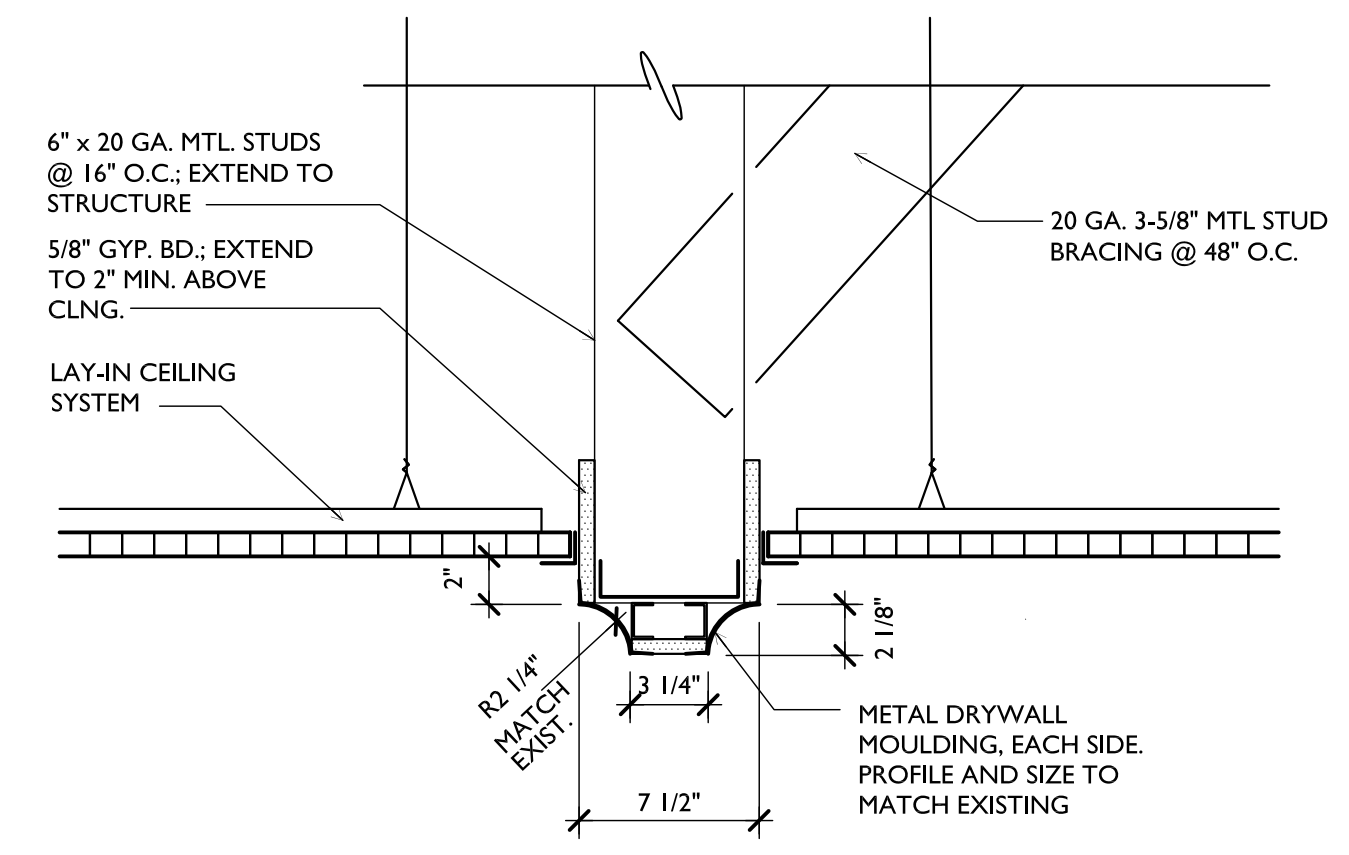
- REFER TO MECHANICAL, ELECTRICAL AND EQUIPMENT DRAWINGS FOR CLARIFICATION OF SYMBOLS USED ON THE REFLECTED CEILING PLAN TO ILLUSTRATE LAYOUT OF ITEMS WITHIN CEILING SYSTEM.
- ALL CEILING HEIGHTS ARE TO BE AS NOTED. COORDINATE THIS FINISHED CEILING HEIGHT WITH ALL OTHER TRADES, AND WITH ALL MECHANICAL, ELECTRICAL AND OTHER EQUIPMENT AND ITEMS ABOVE CEILING.
- UNLESS SPECIFICALLY DIRECTED OTHERWISE, LOCATE ALL GRILLES, REGISTERS, DIFFUSERS, FIXTURES, OR OTHER SUCH EQUIPMENT FLUSH WITH CEILING SURFACE AND CENTERED ON TILE.
- SEE FINISH PLAN FOR TYPE AND STYLE OF CEILING SYSTEMS.
- COORDINATE NEW CEILING GRID AND PANEL INSTALLATION AS REQUIRED WITH EXISTING ITEMS RECESSED IN OR SURFACE MOUNTED TO EXISTING CEILING. WHERE EXISTING ITEMS TO REMAIN IN PLACE (U.O.N) PROVIDE TEMPORARY SUPPORTS AS REQUIRED & REINSTALL SURFACE MOUNTED ITEMS ON NEW CEILING PANELS. NOTE: NOT ALL EXISTING ITEMS ARE SHOWN.

## Plan Legend:

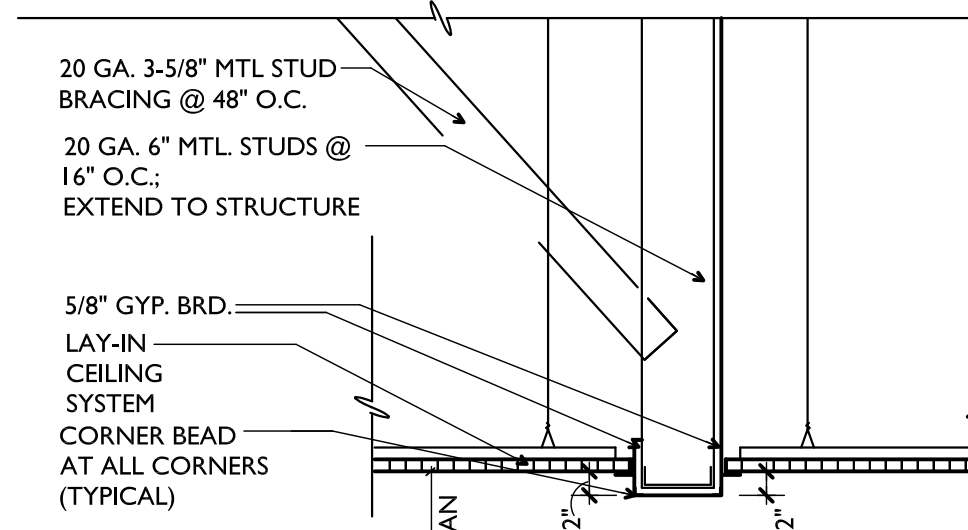
- (X-X) Height Above Finished Floor FOR CEILING SYSTEMS: TO FINISHED CEILING HEIGHT.
- FOR BULKHEADS AND SOFFITS: TO BOTTOM OF FINISHED SURFACE.
- FOR OPENINGS THROUGH WALLS: TO BOTTOM OF FINISHED OPENING.
- Gypsum Board Ceiling / Soffit
- E.I.F.S. Soffit
- New 2'X2' Ceiling Grid With New Ceiling Panels (U.O.N)
- Existing 2'X2' Ceiling Grid To Remain with New Ceiling Panels (U.O.N)

## Reflected Ceiling Keynotes

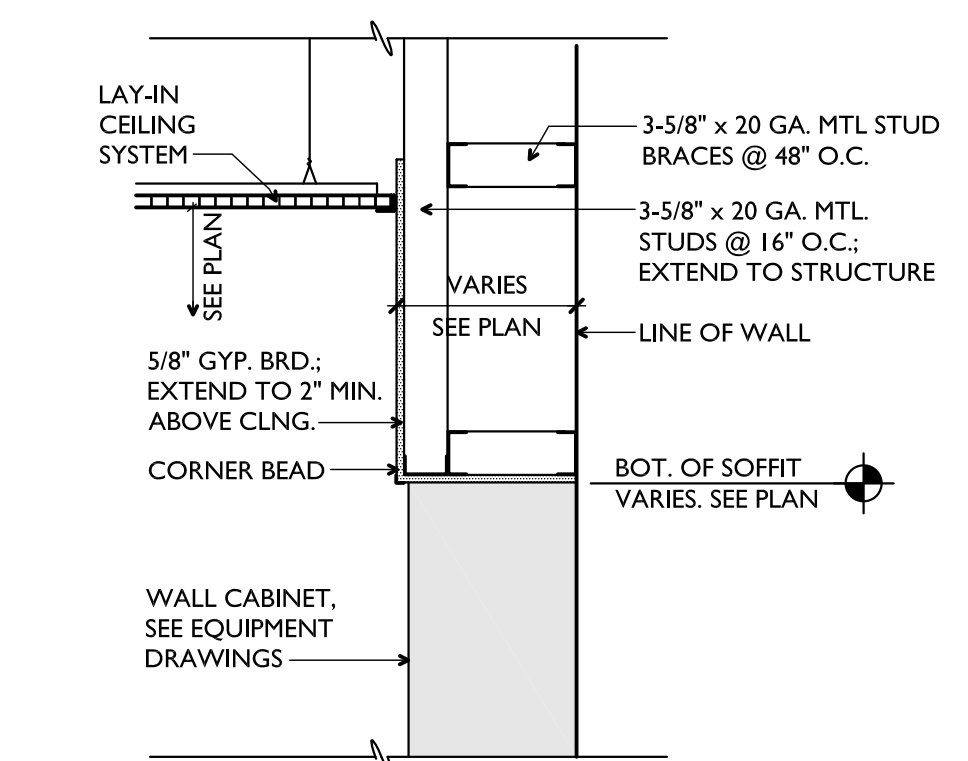
- RC1 EXISTING CEILING GRID WITH NEW CEILING PANELS AS SHOWN IN ROOM. SEE FINISH PLAN FOR TYPE.
- RC2 EXISTING GYP. BD. SOFFIT TO REMAIN.
- RC3 EXISTING CURVED PLASTER VENEER CEILING TO REMAIN
- RC4 EXISTING GYP. BD. CEILING TO REMAIN.
- RC5 EXISTING CEMENT PLASTER SOFFIT TO REMAIN
- RC6 AREA OF NEW GYP. BD. SOFFIT. PROVIDE NEW 3-5/8" X 20 GAUGE METAL STUDS AT 16" O.C. TO DECK WITH 5/8" GYP. BD. NEW SURFACES TO BE FLUSH WITH EXISTING GYP. BD. SOFFIT
- RC7 AREA OF EXISTING ACOUSTICAL LAY-IN CEILING SYSTEM TO REMAIN. PROVIDE NEW SUSPENSION SYSTEM AND EDGE MOLDING AS REQUIRED



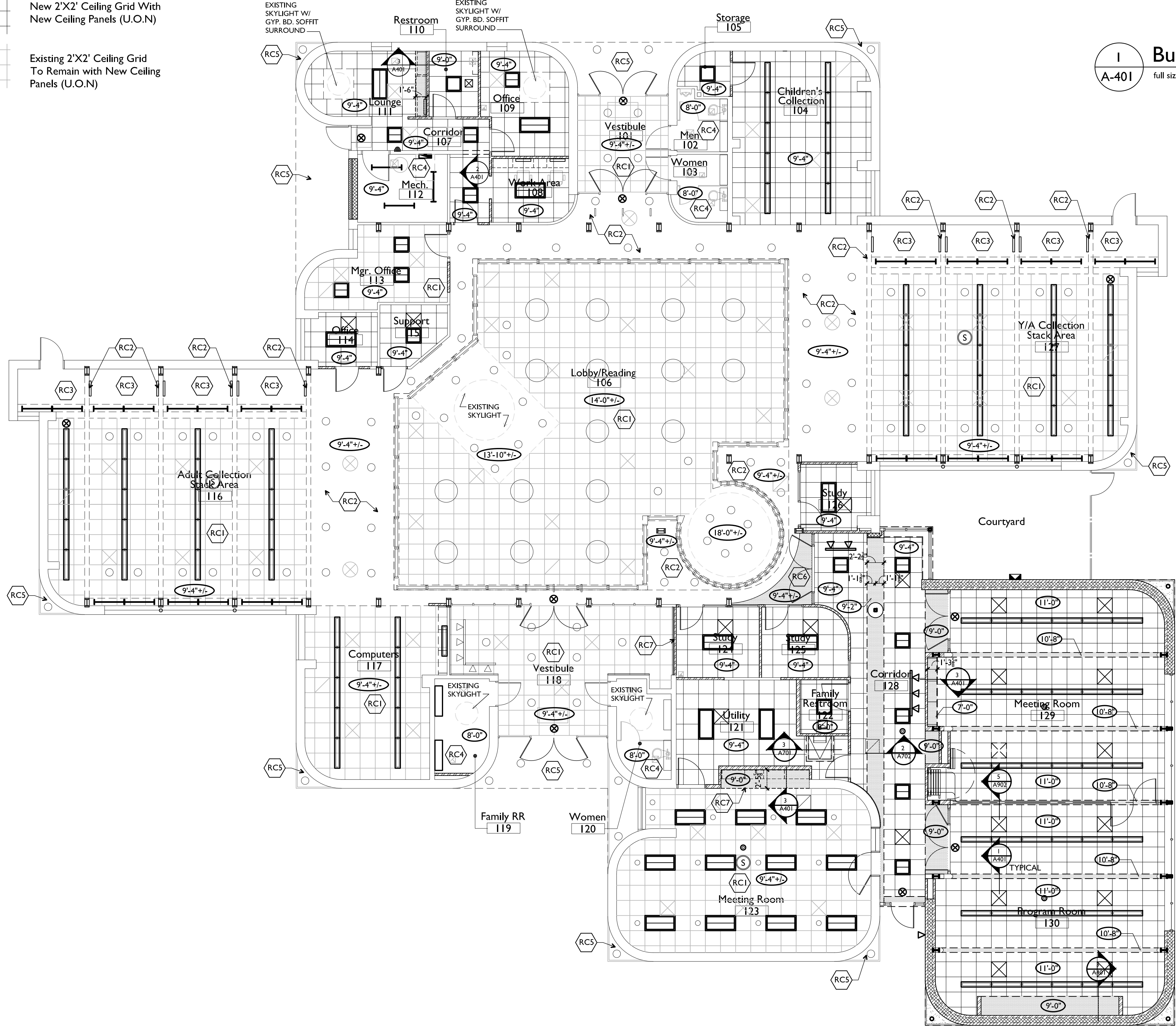
I Bulkhead Detail  
A-401 full size plot scale: 1-1/2"=1'-0"



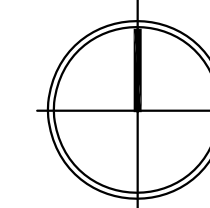
2 Gyp. Bd. Soffit Detail  
A-401 full size plot scale: 3/4"=1'-0"



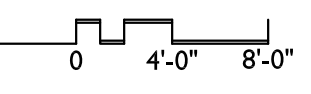
3 Gyp. Brd. Soffit Detail  
A-401 full size plot scale: 3/4"=1'-0"



North



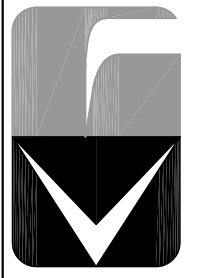
Reflected Ceiling Plan  
full size plot scale: 1/8"=1'-0"



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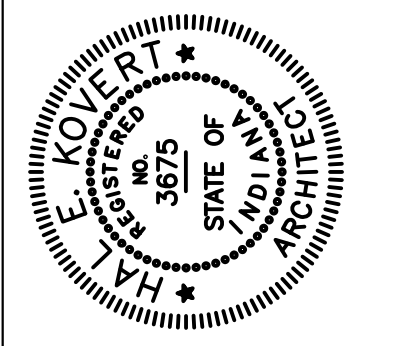
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architects

Drawn: AH  
Checked By: HK  
Project No.: 1723.02  
Date: 12/07/2017

Revisions:  
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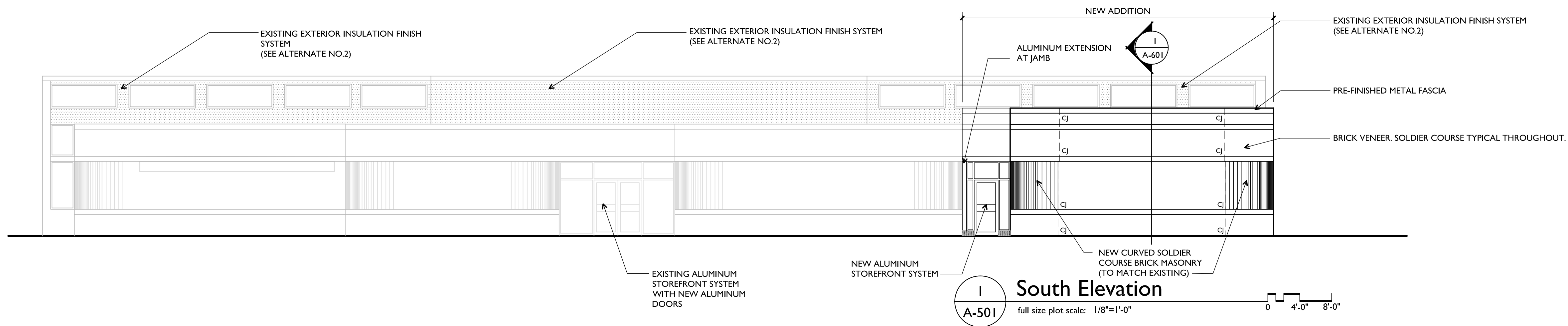


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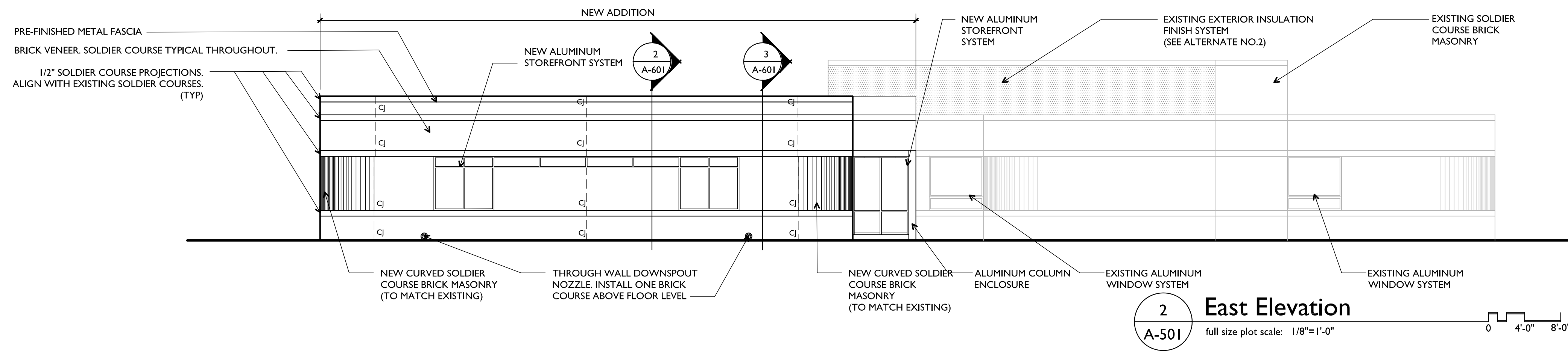
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**A-401**

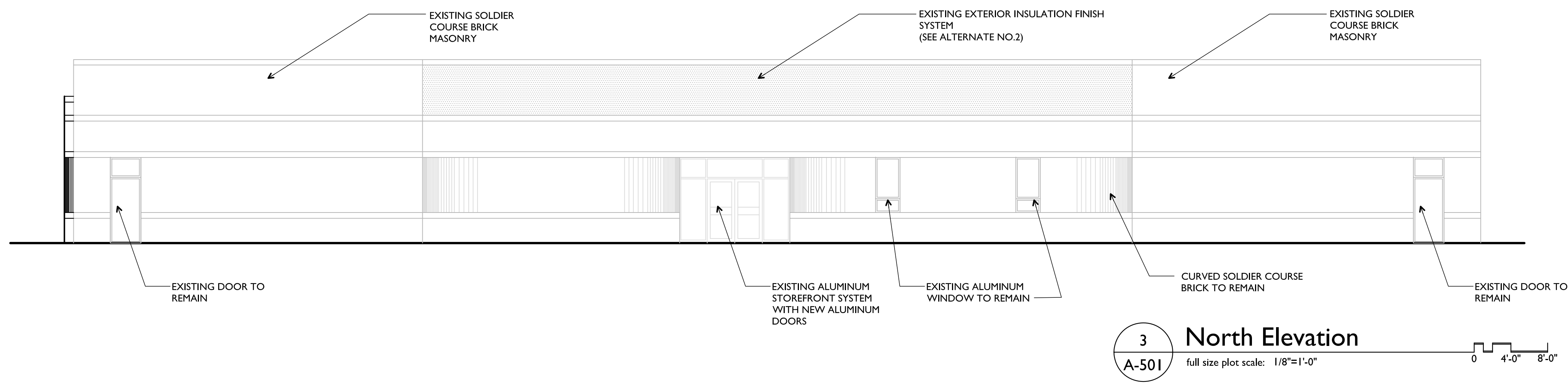




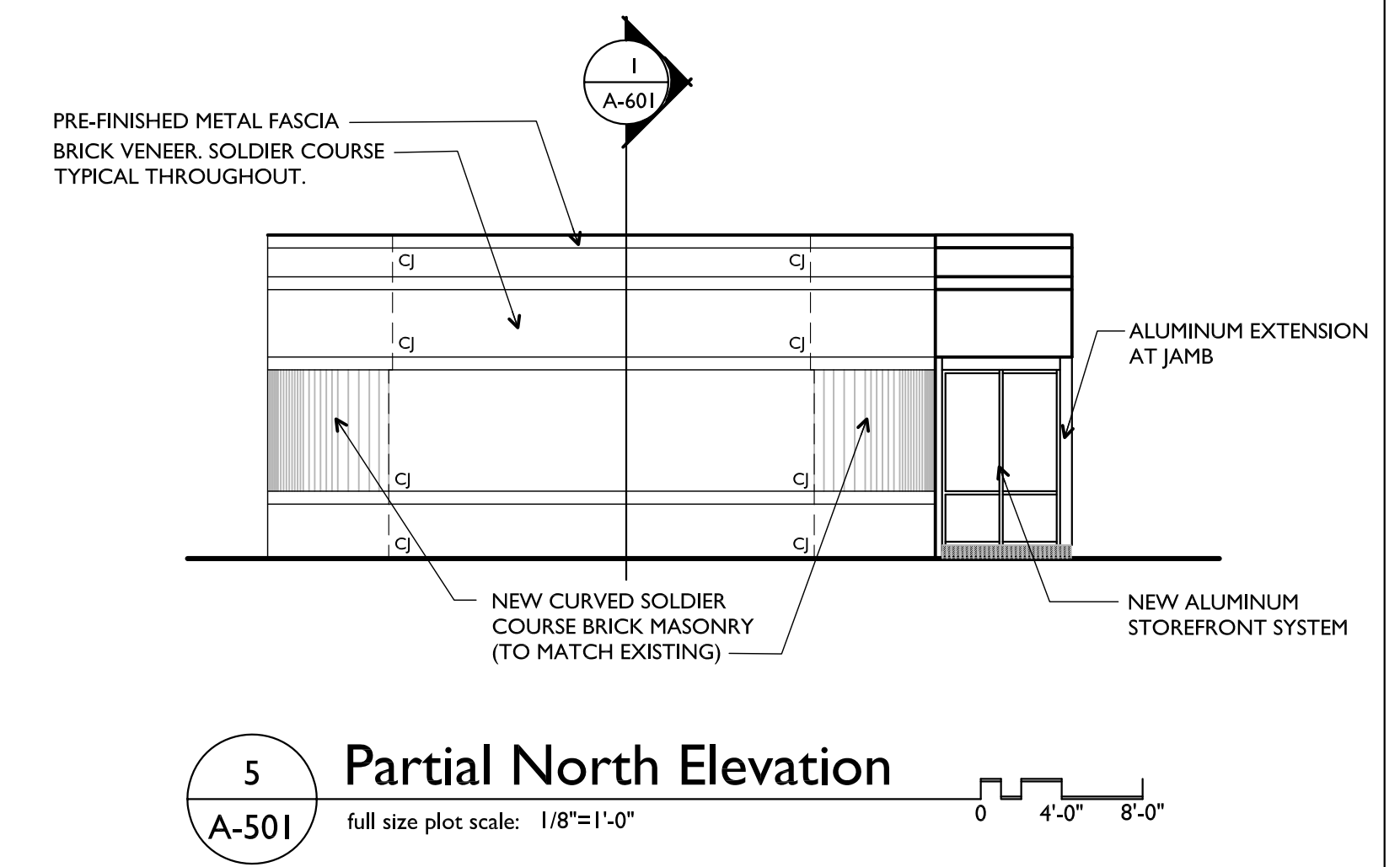
**1 South Elevation**  
A-501 full size plot scale: 1/8"=1'-0"



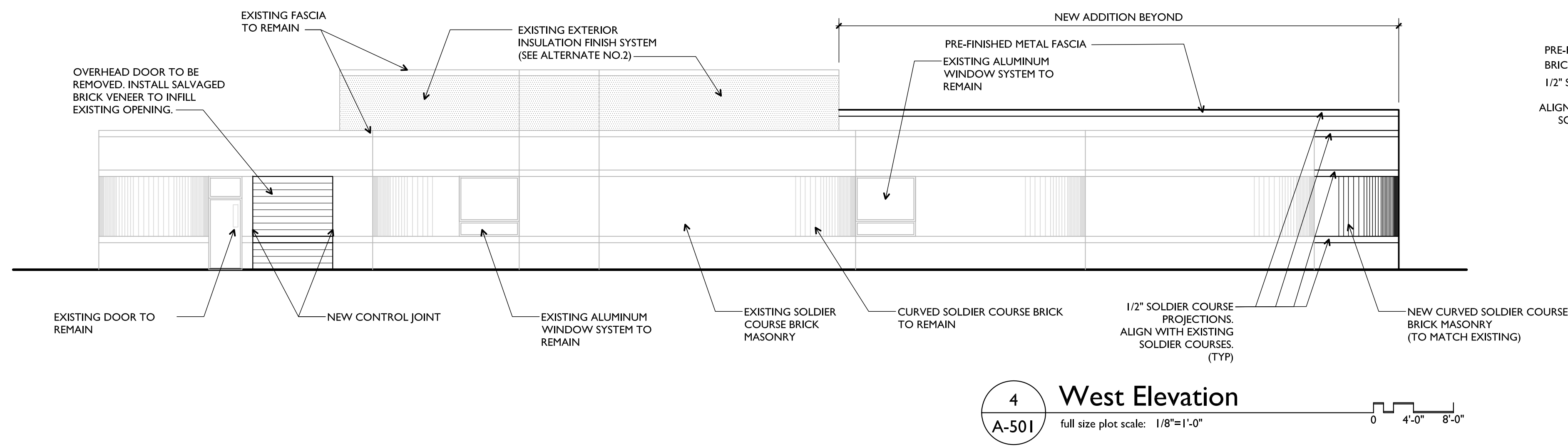
**2 East Elevation**  
A-501 full size plot scale: 1/8"=1'-0"



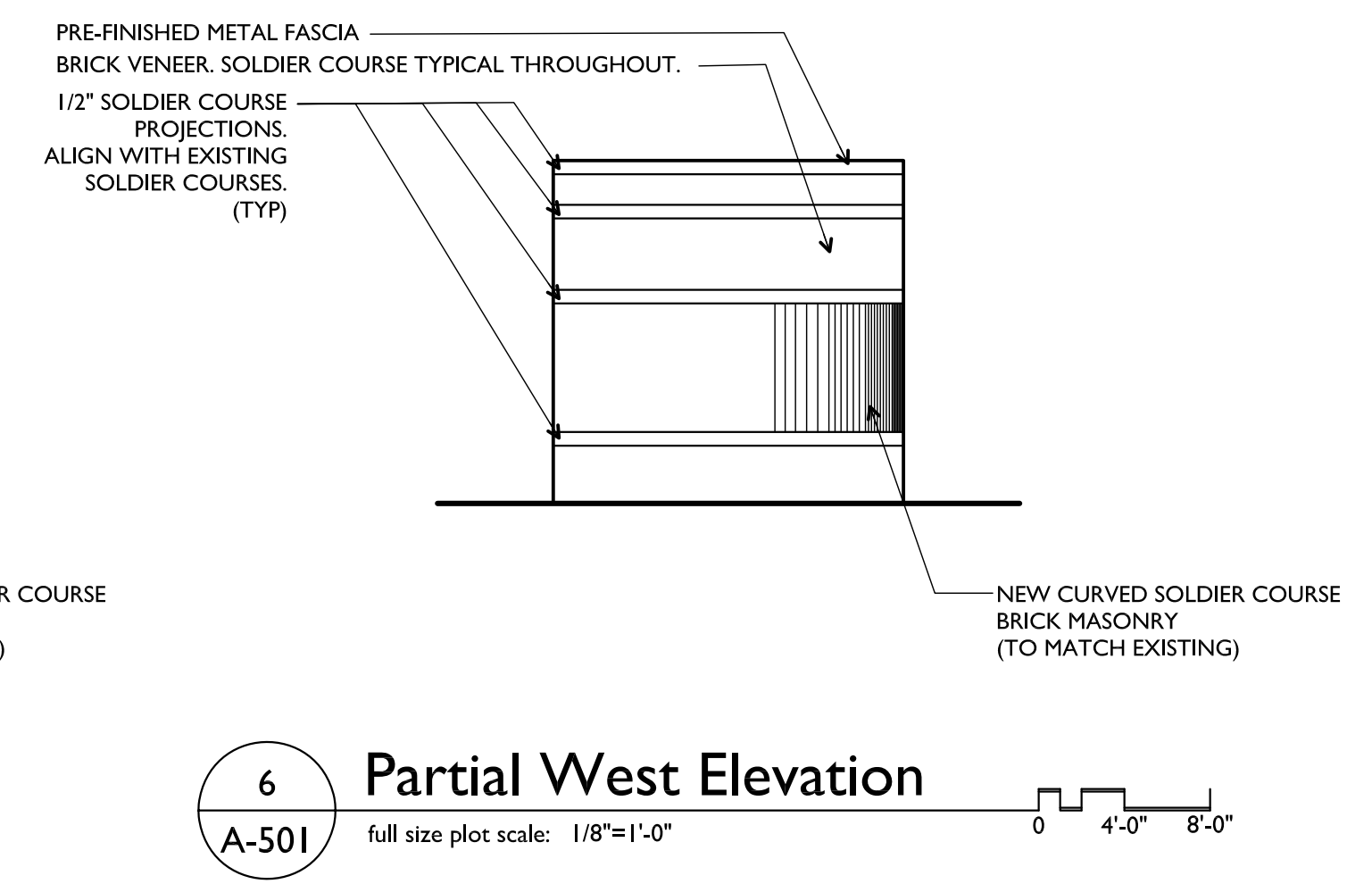
**3 North Elevation**  
A-501 full size plot scale: 1/8"=1'-0"



**5 Partial North Elevation**  
A-501 full size plot scale: 1/8"=1'-0"



**4 West Elevation**  
A-501 full size plot scale: 1/8"=1'-0"



**6 Partial West Elevation**  
A-501 full size plot scale: 1/8"=1'-0"

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**KovertHawkins**  
architects

Drawn: ZW  
Checked By: HK  
Project No.: 1723.02  
Date: 12/07/2017

Revisions:  
1  
2  
3  
4  
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2018 Renovation & Addition  
**Clarksville Branch Library**  
Jeffersonville Township Public Library  
1312 Eastern Boulevard  
Clarksville, Indiana 47129

Sheet  
**A-501**

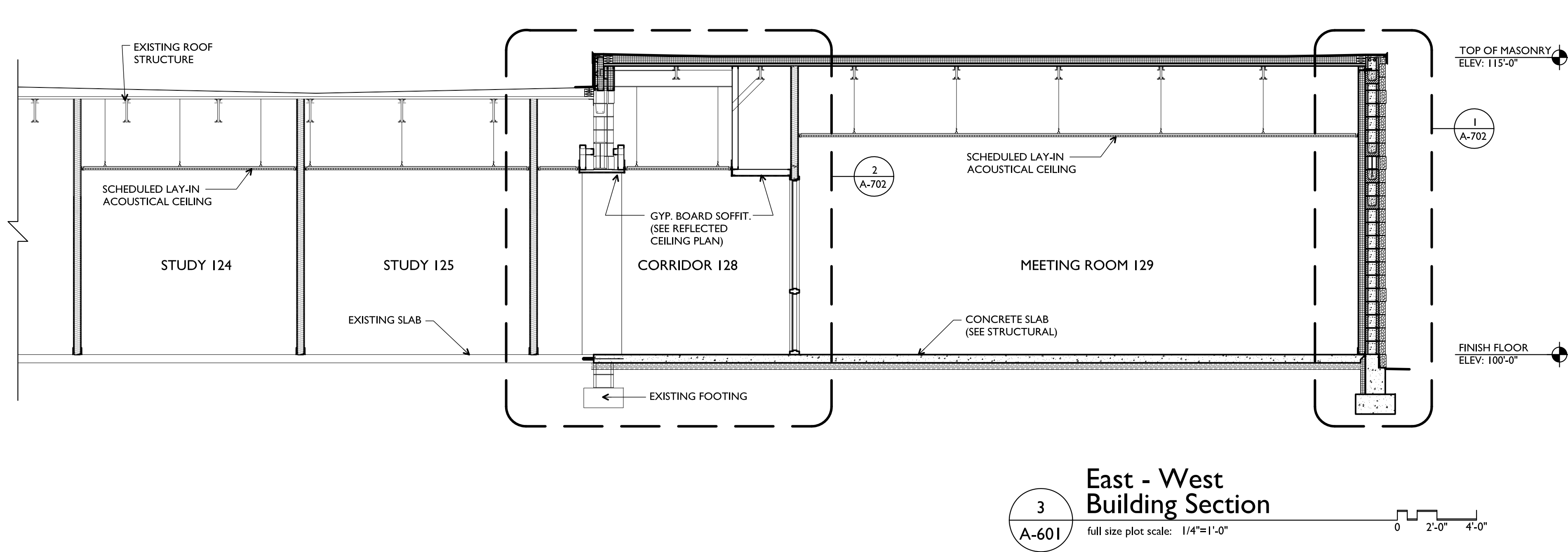
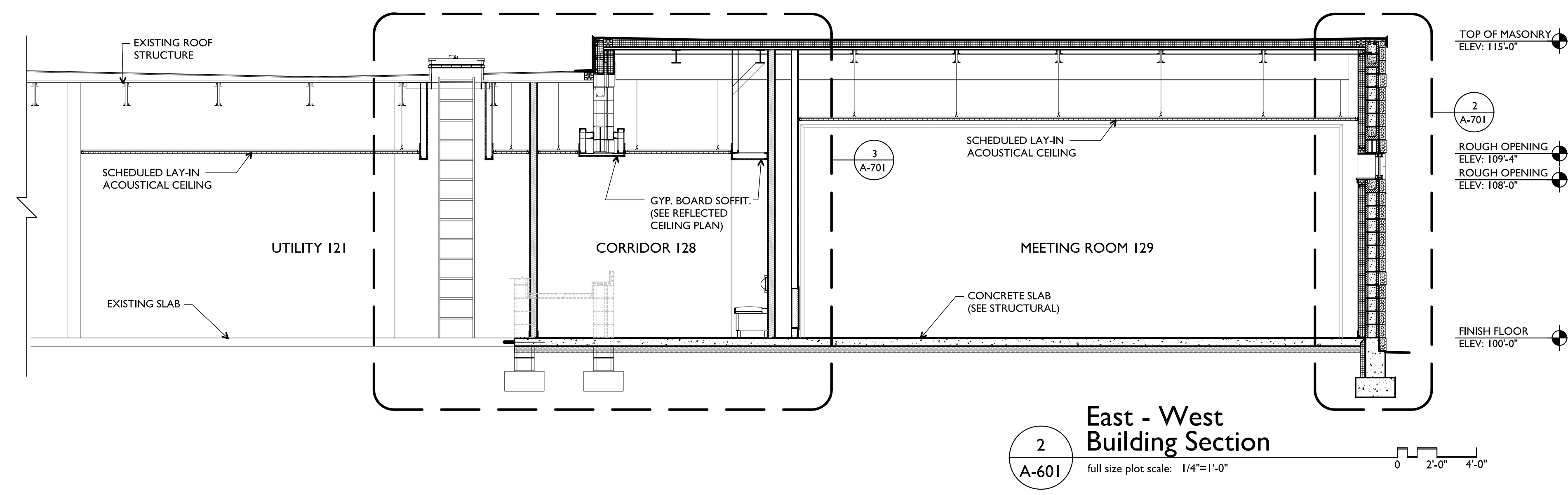
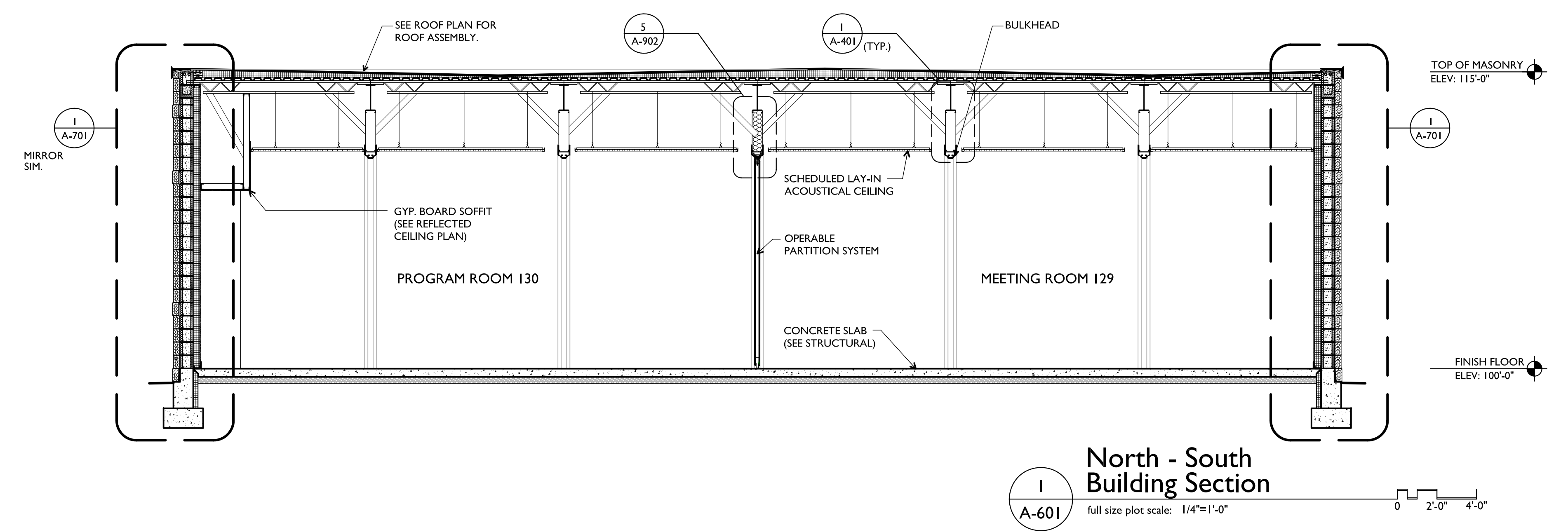
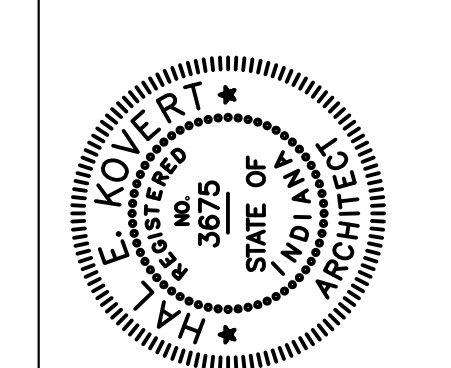


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Project No.	1723.02
Date	12/07/2017

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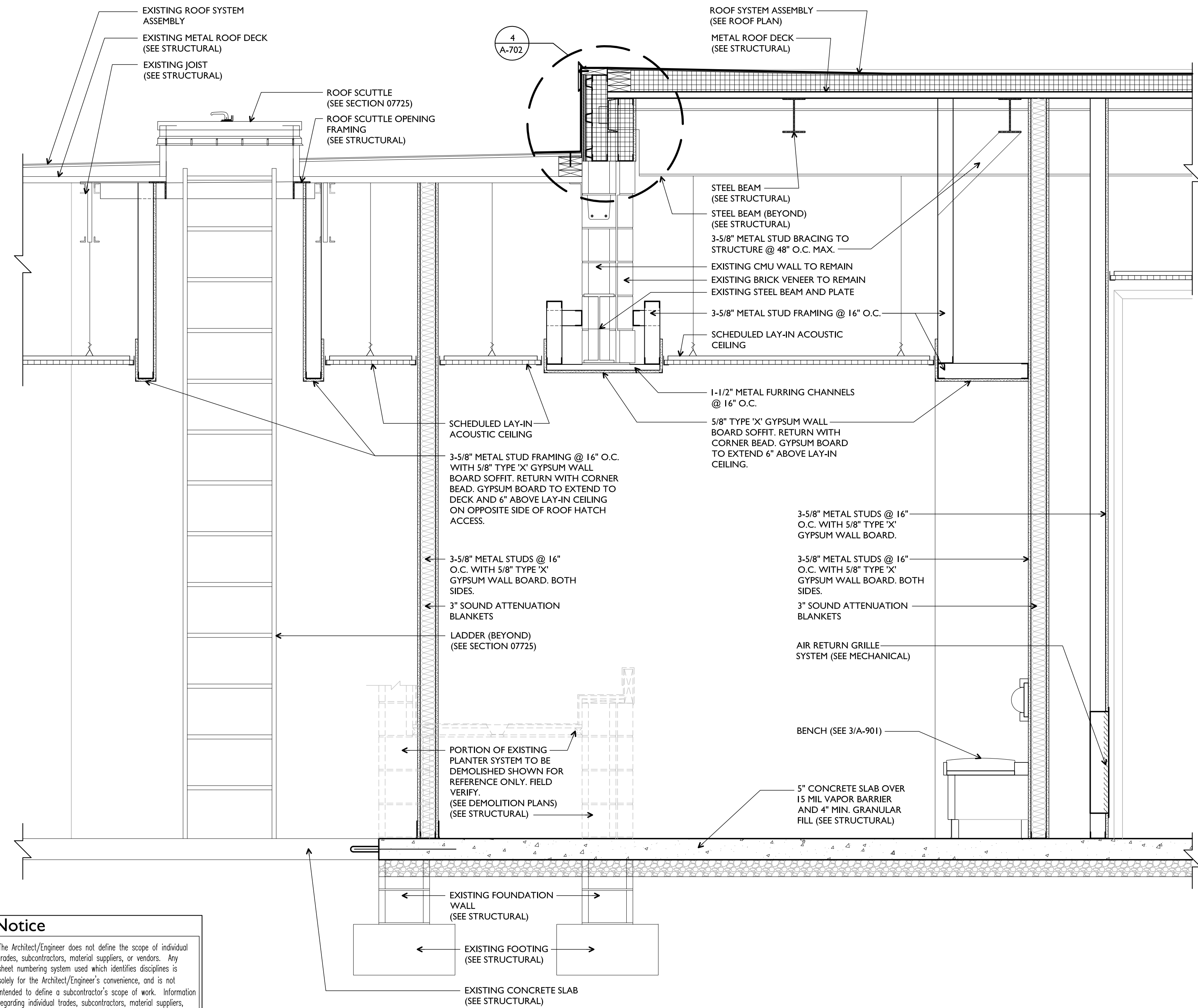
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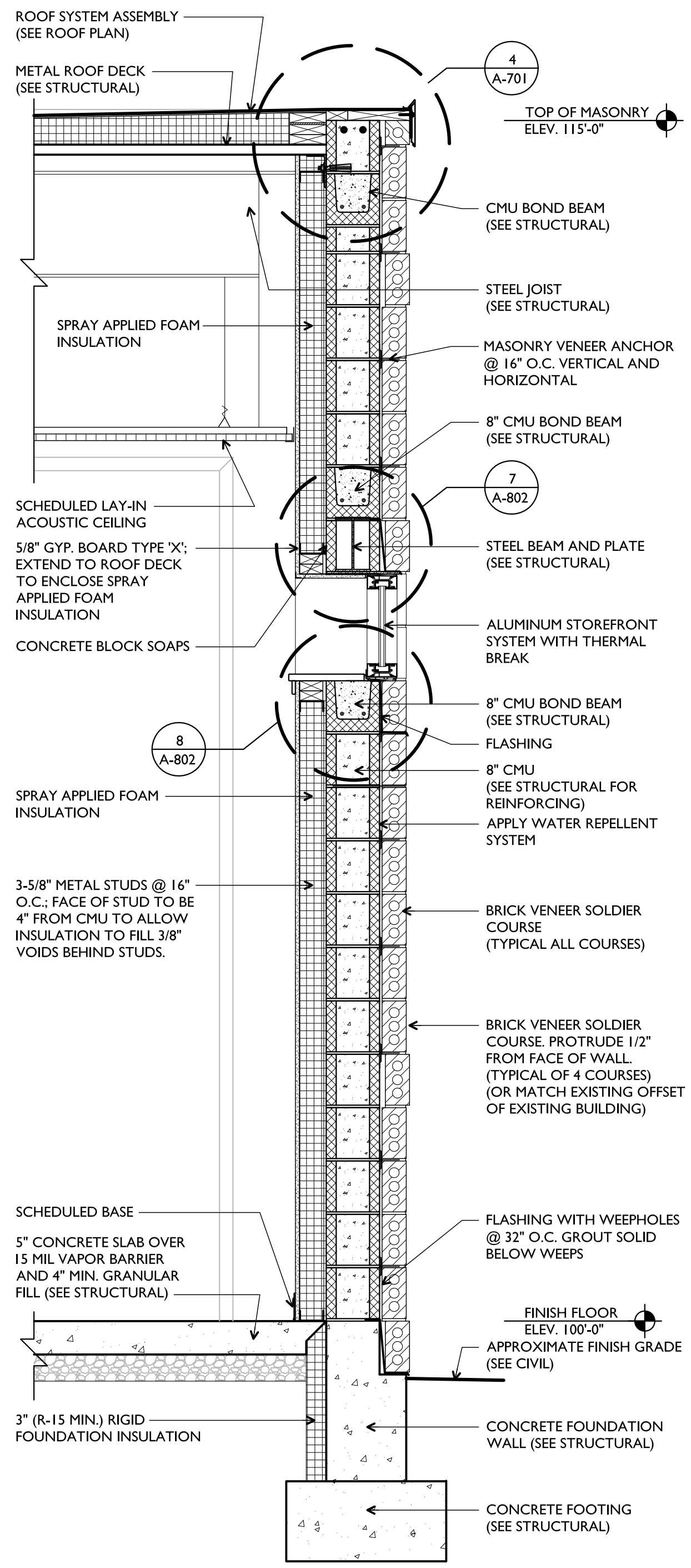
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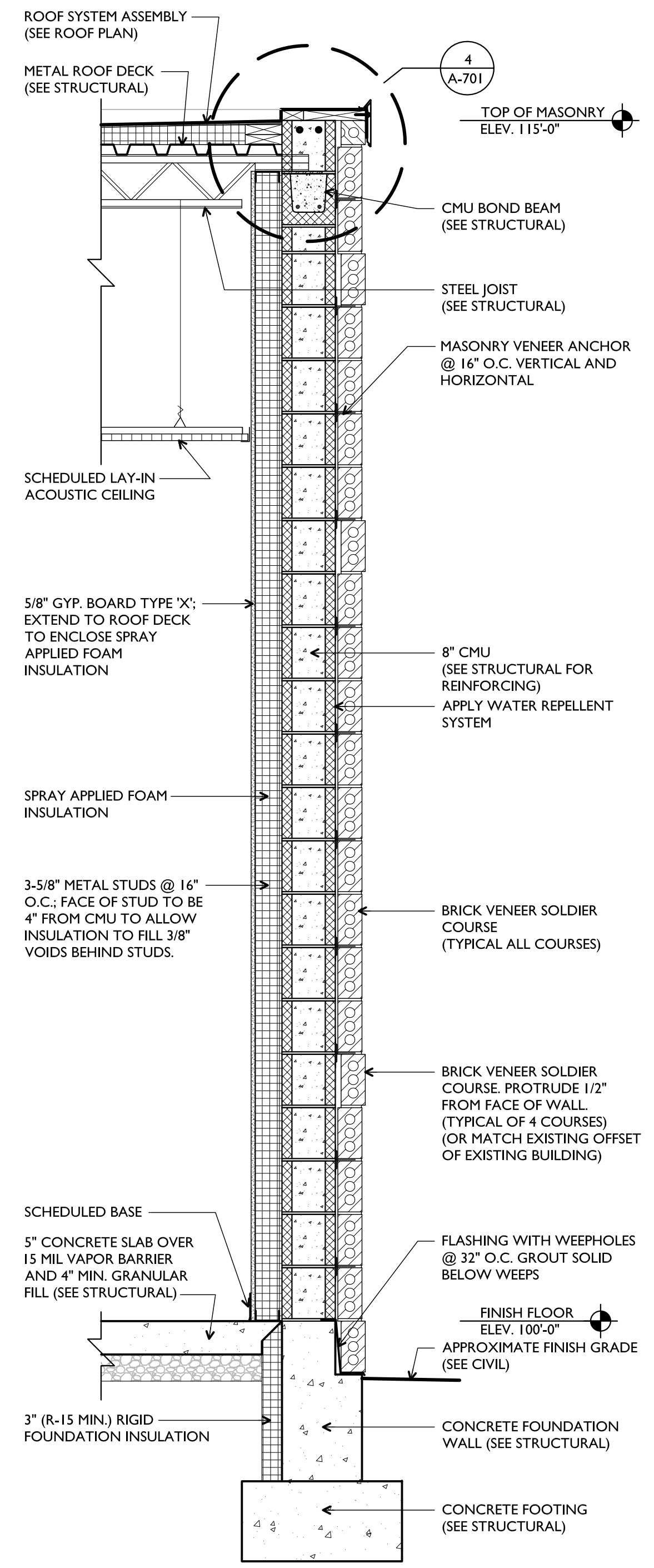




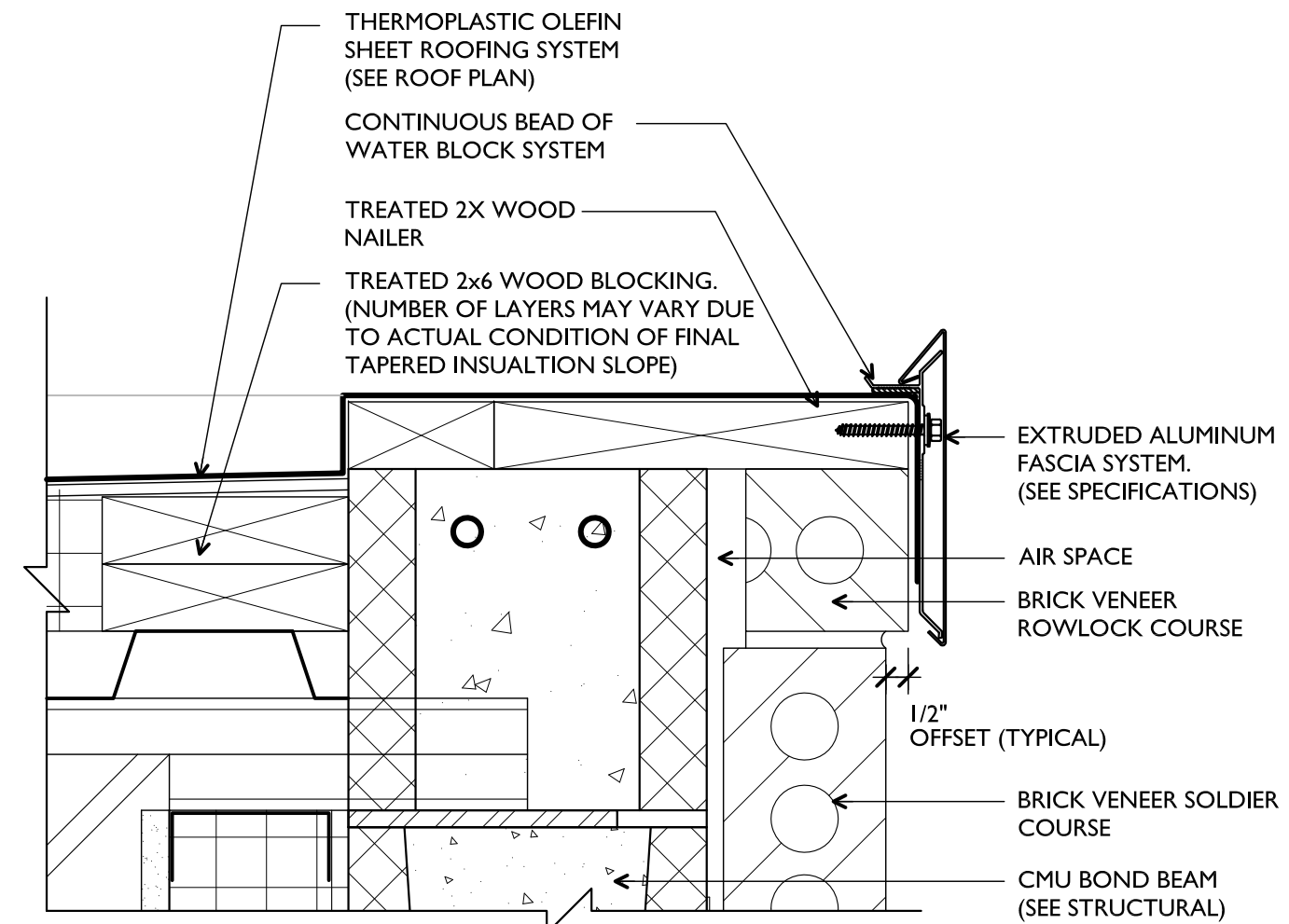
**3 Wall Section**  
 A-701 full size plot scale: 3/4"=1'-0" 0 8" 1'-4"



**2 Wall Section**  
 A-701 full size plot scale: 3/4"=1'-0" 0 8" 1'-4"

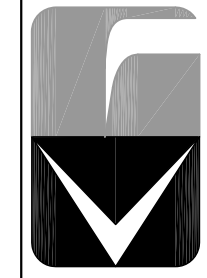


**1 Wall Section**  
 A-701 full size plot scale: 3/4"=1'-0" 0 8" 1'-4"



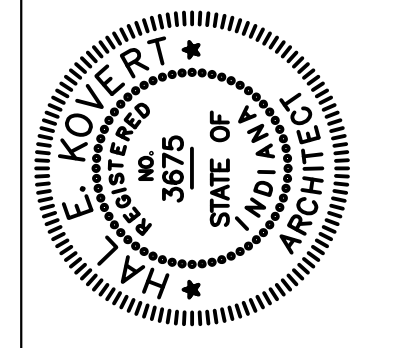
**4 Fascia Detail**  
 A-701 full size plot scale: 3"=1'-0" 0 2" 4"

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Project No.	1723.02
Date	12/07/2017

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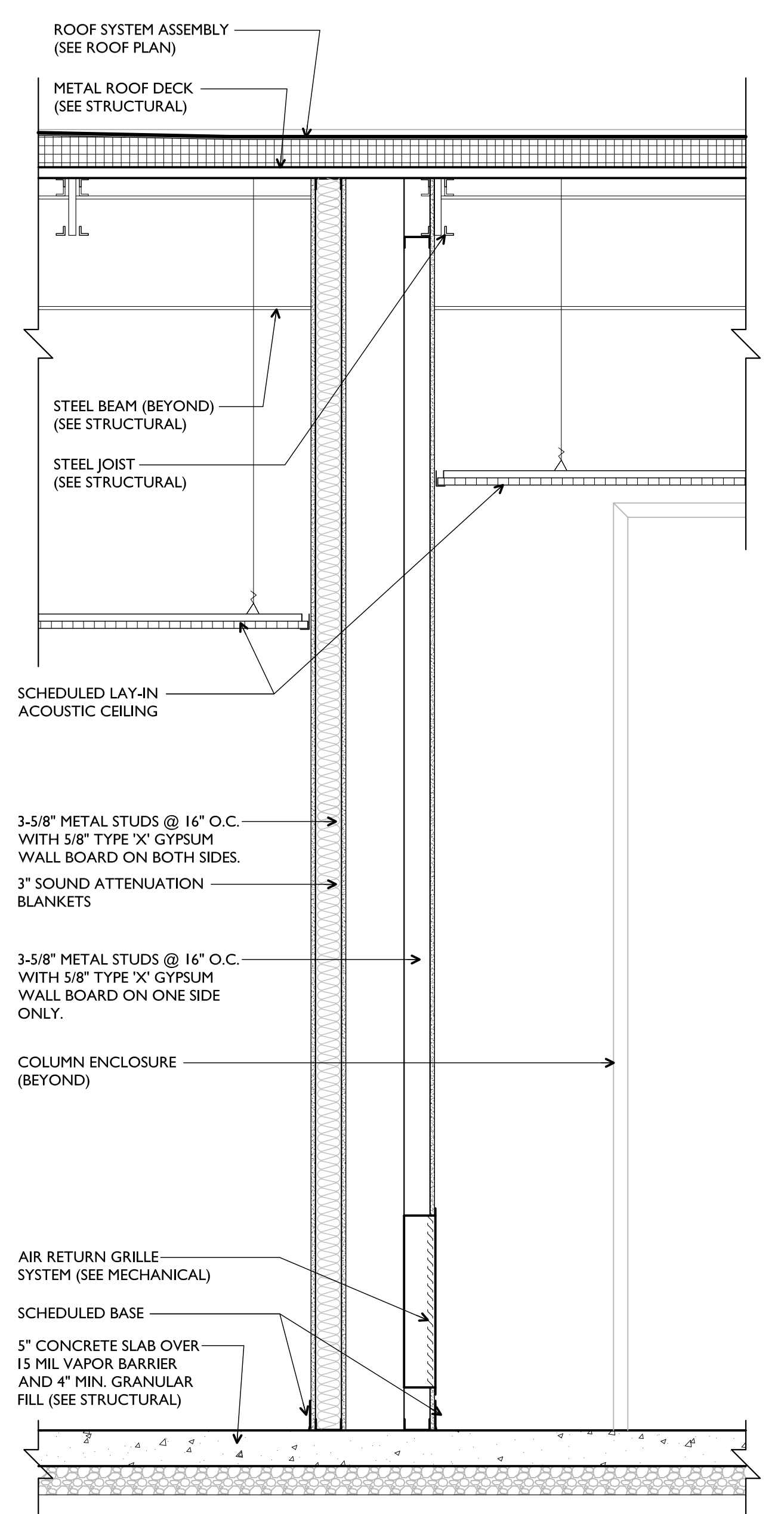


**2018 Renovation & Addition**  
**Clarksville Branch Library**  
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 1312 Eastern Boulevard  
 Clarksville, Indiana 47129

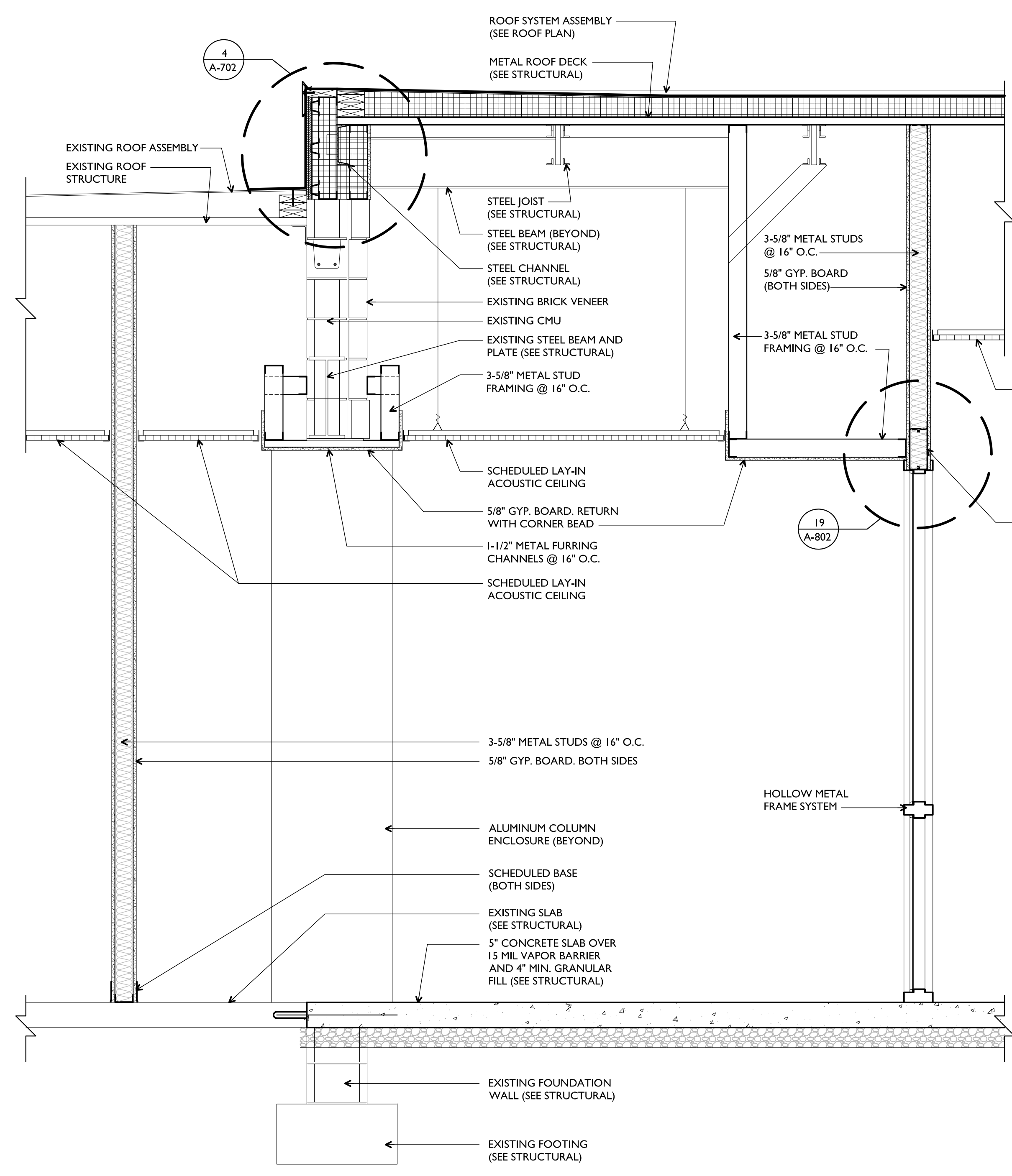


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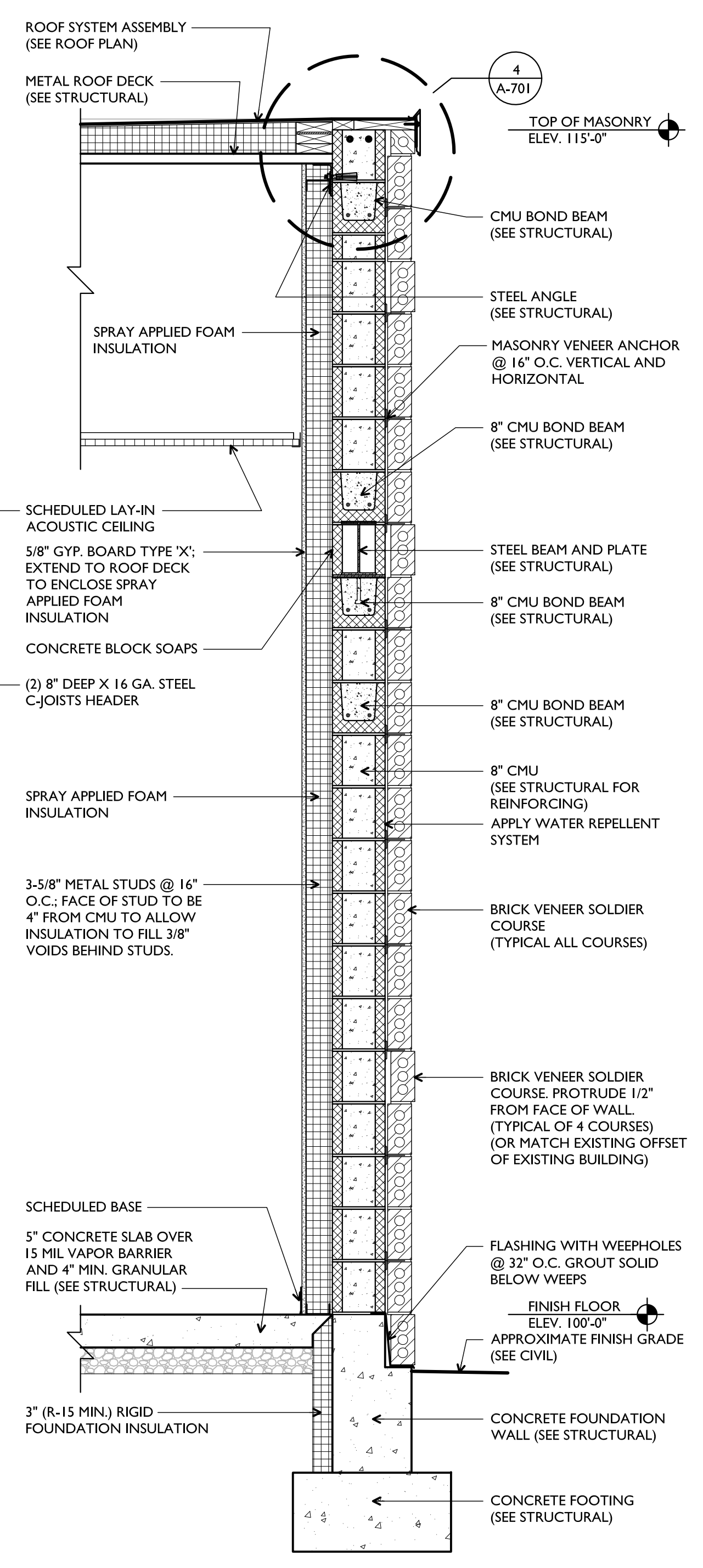
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**3 Wall Section**  
 A-702 full size plot scale: 3/4"=1'-0"  
 0 8" 1'-4"

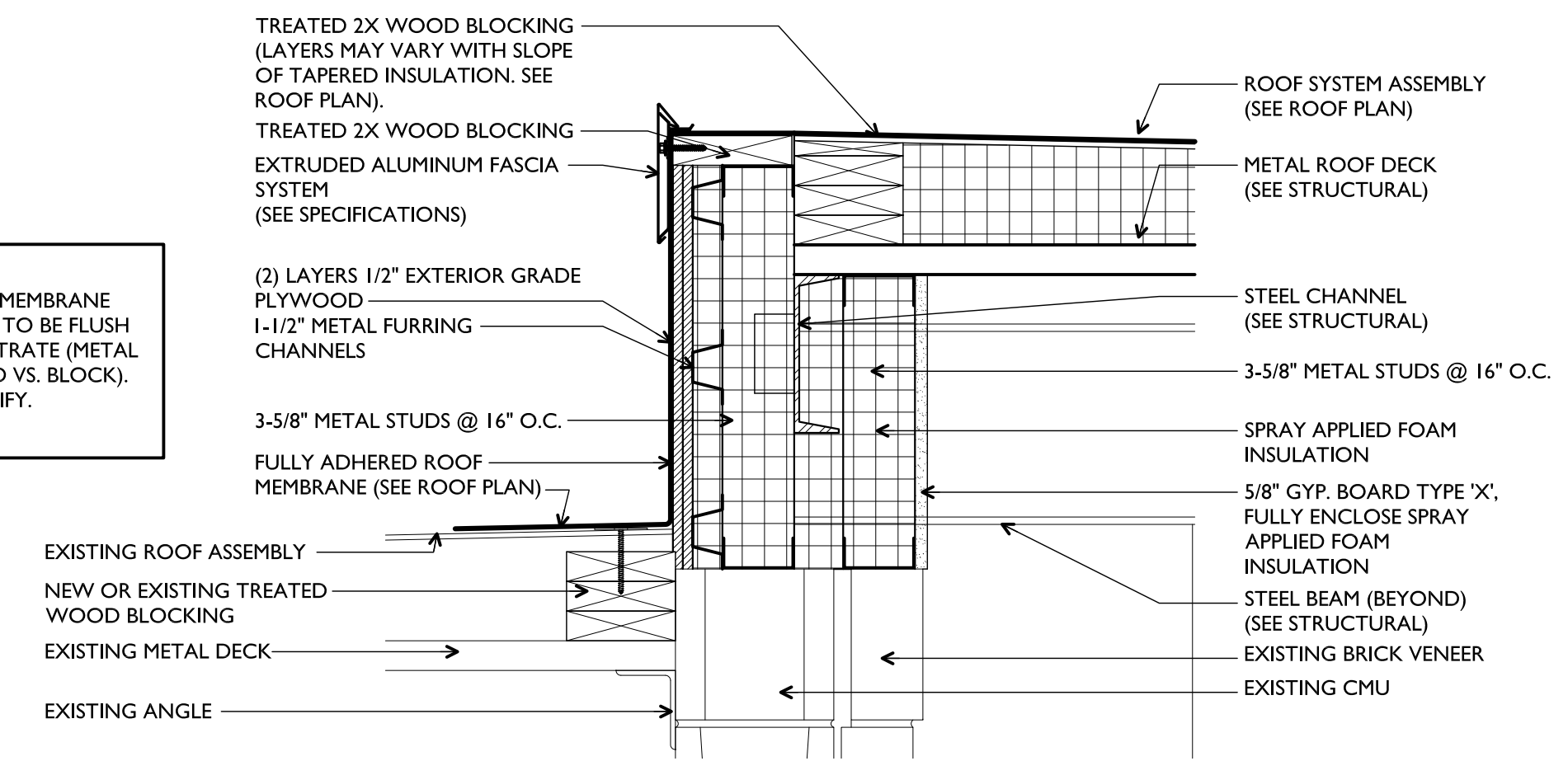


**2 Wall Section**  
 A-702 full size plot scale: 3/4"=1'-0"  
 0 8" 1'-4"



**1 Wall Section**  
 A-702 full size plot scale: 3/4"=1'-0"  
 0 8" 1'-4"

**NOTE**  
 INTENT IS FOR ROOF MEMBRANE OVER PARAPET WALL TO BE FLUSH REGARDLESS OF SUBSTRATE (METAL STUD AND PLYWOOD VS. BLOCK). SEE 4/A-703. FIELD VERIFY.

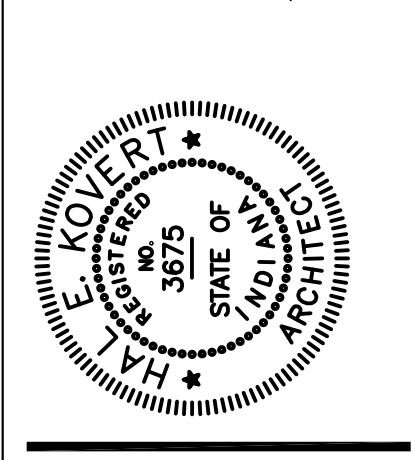


**4 Parapet Detail**  
 A-702 full size plot scale: 1-1/2"=1'-0"  
 0 4" 8"

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**2018 Renovation & Addition**  
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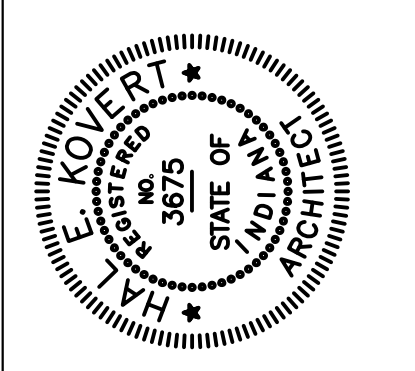
Sheet  
**A-702**



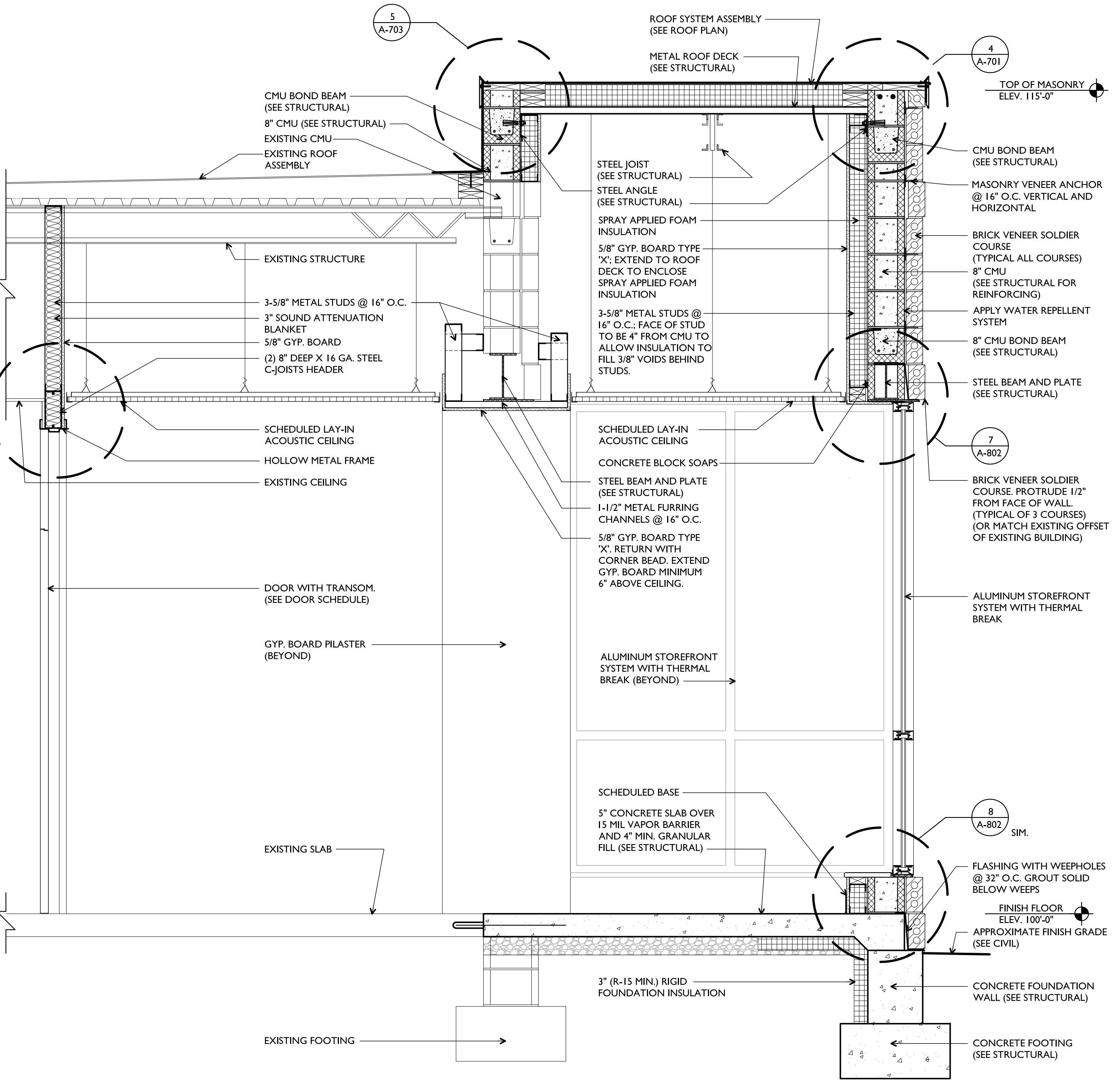
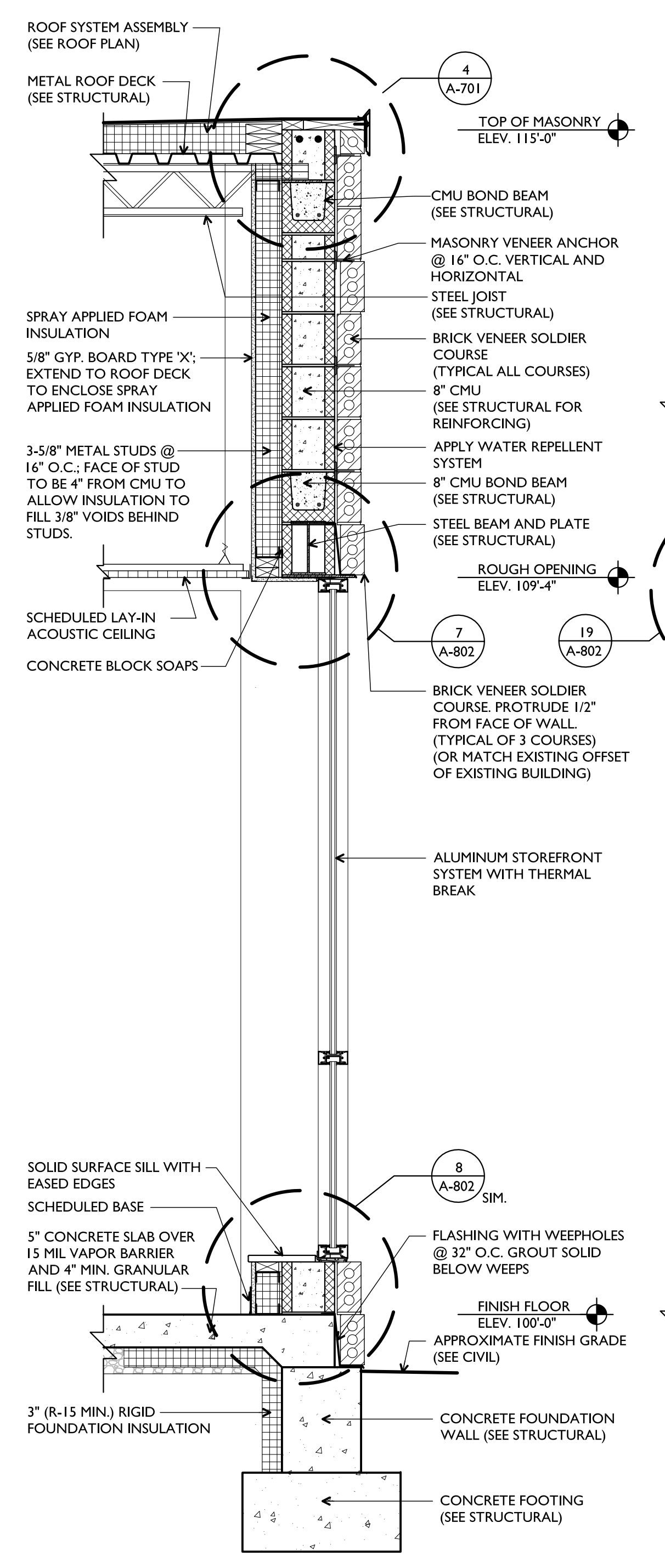
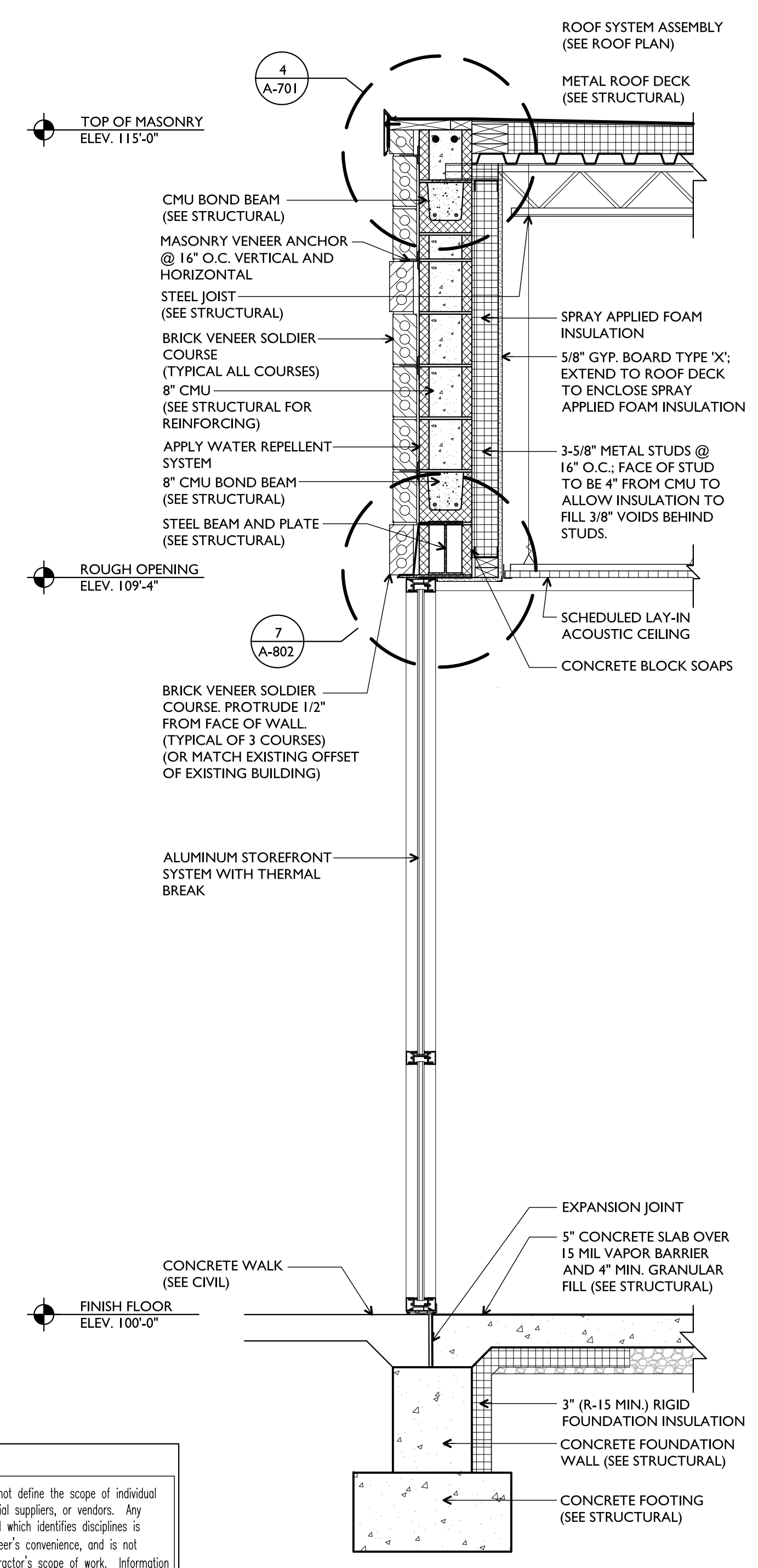
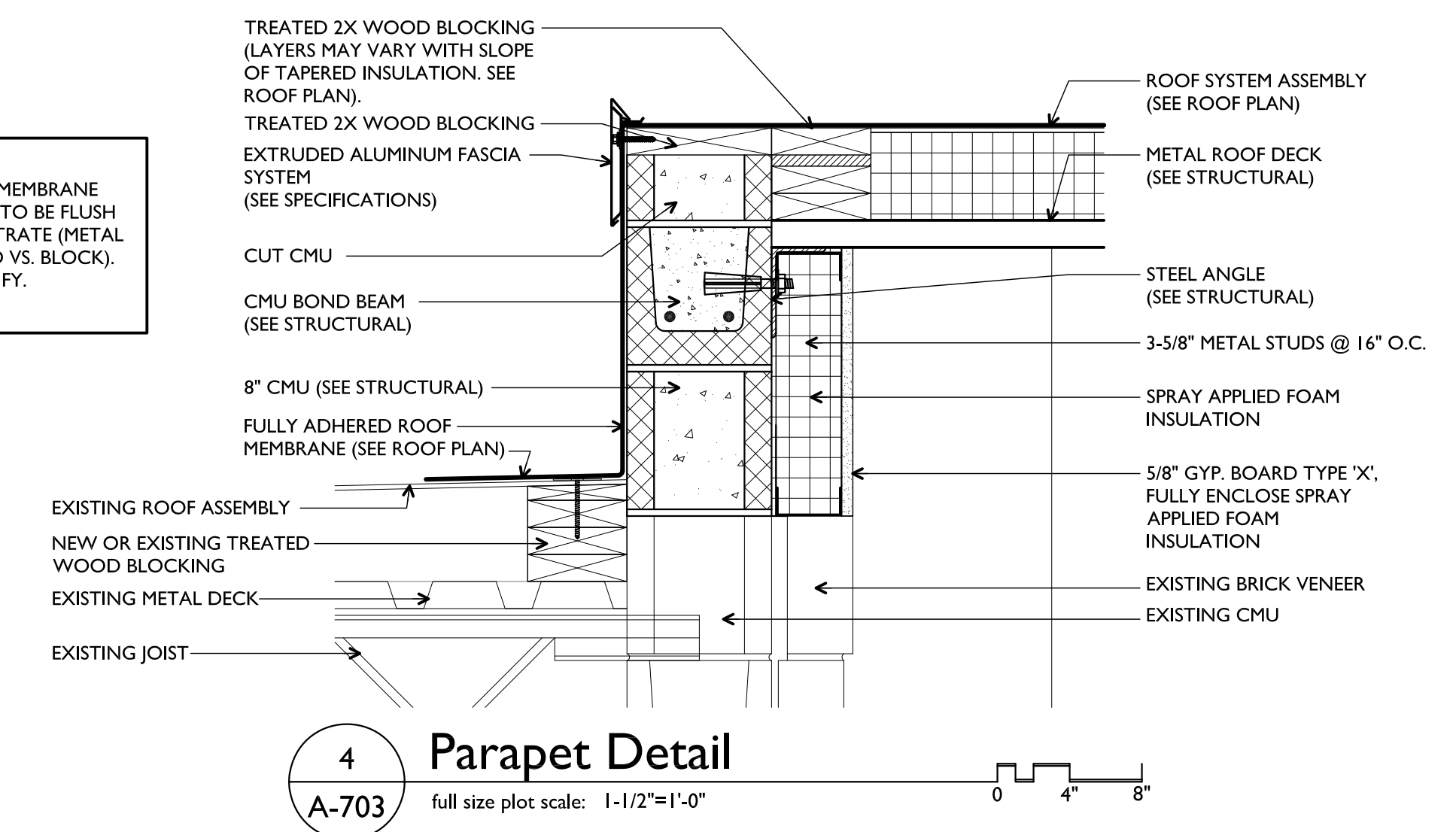


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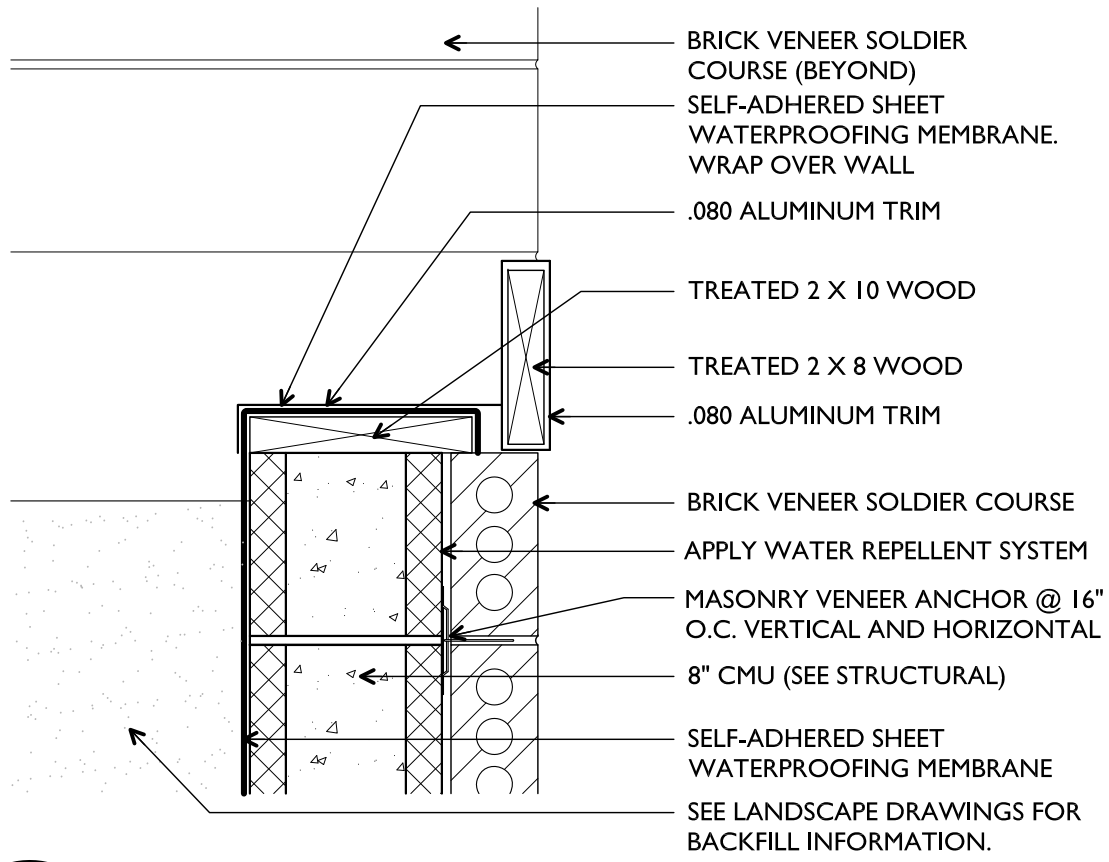
1	2	3	4	5	6
Revisions					



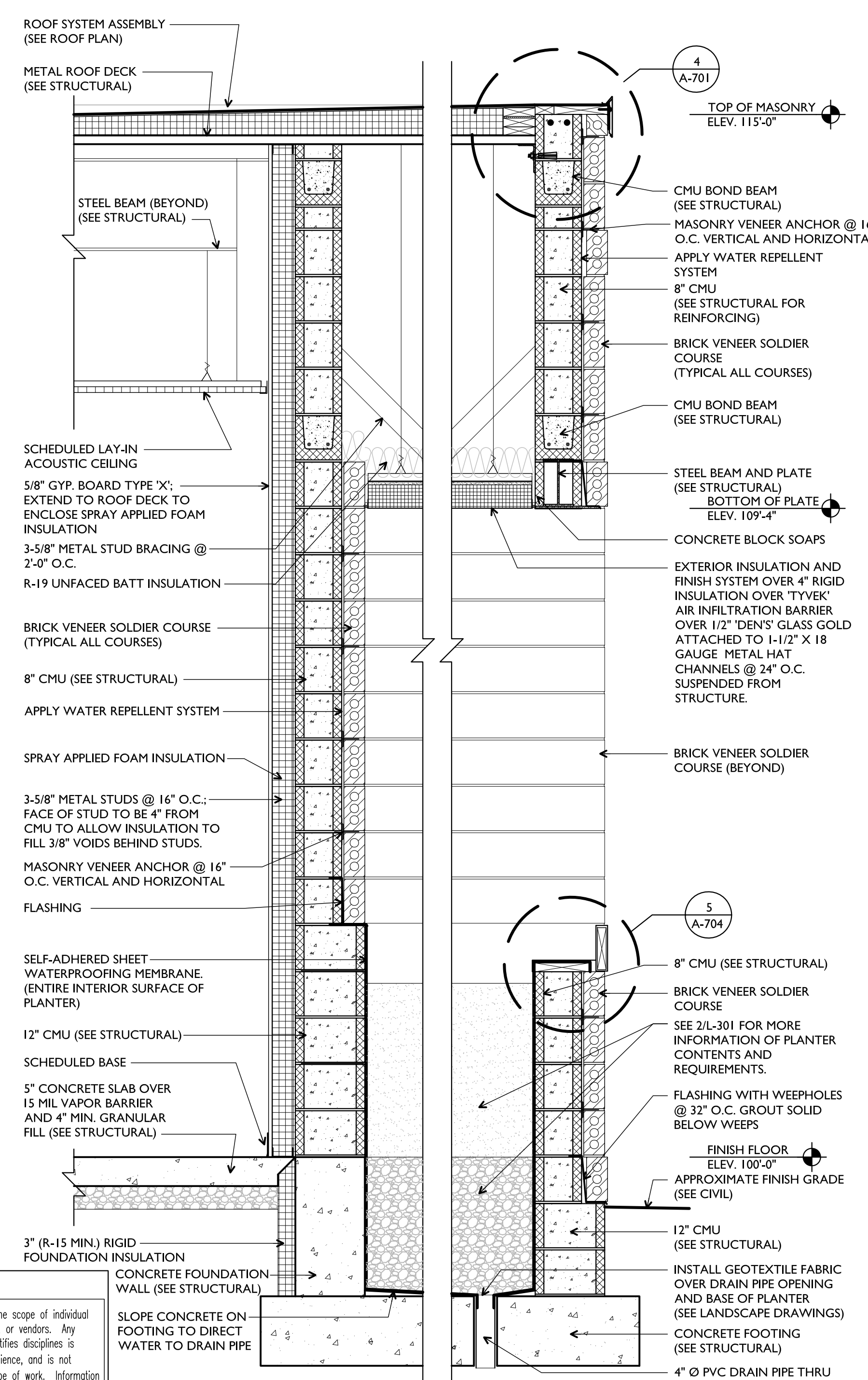
NOTE:  
INTENT IS FOR ROOF MEMBRANE  
OVER PARAPET WALL TO BE FLUSH  
REGARDLESS OF SUBSTRATE (METAL  
STUD AND PLYWOOD VS. BLOCK).  
SEE 4/A-702, FIELD VERIFY.



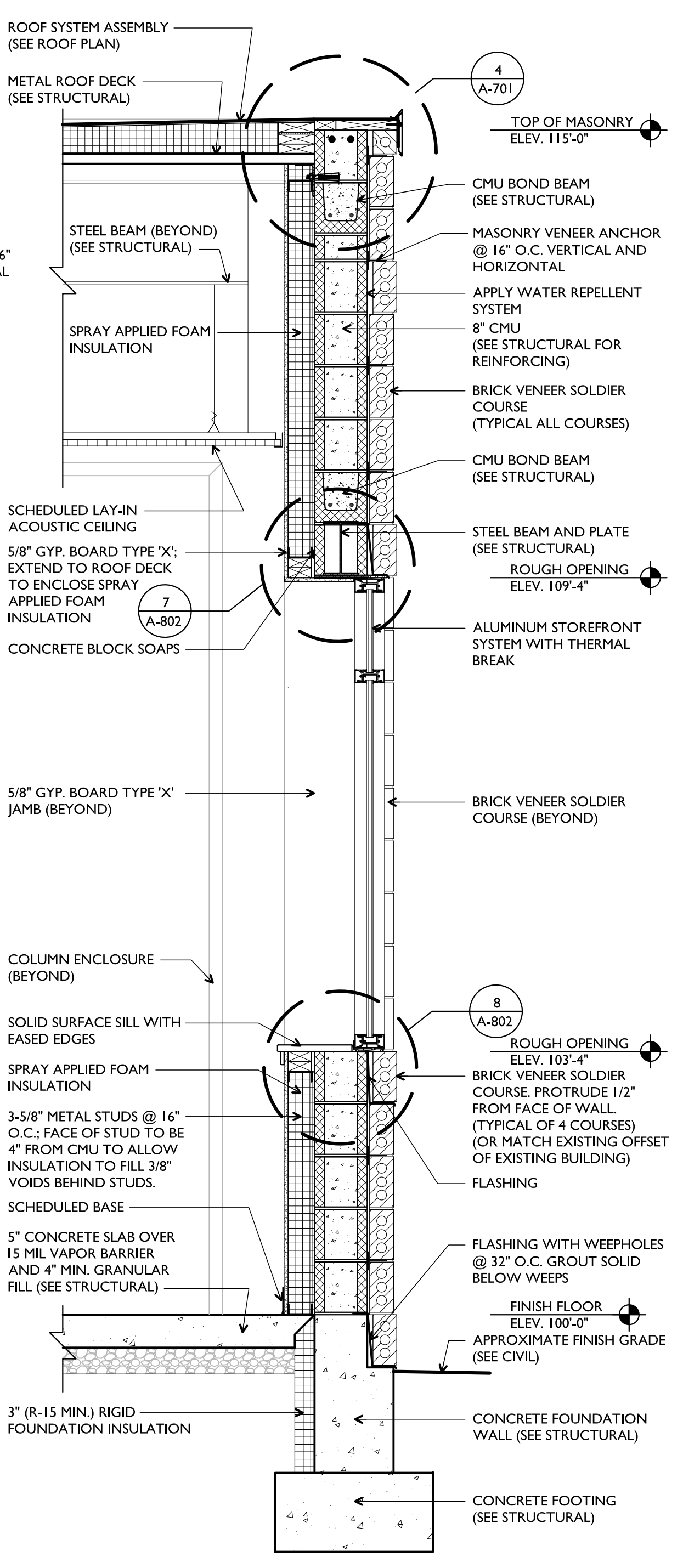
**Notice**  
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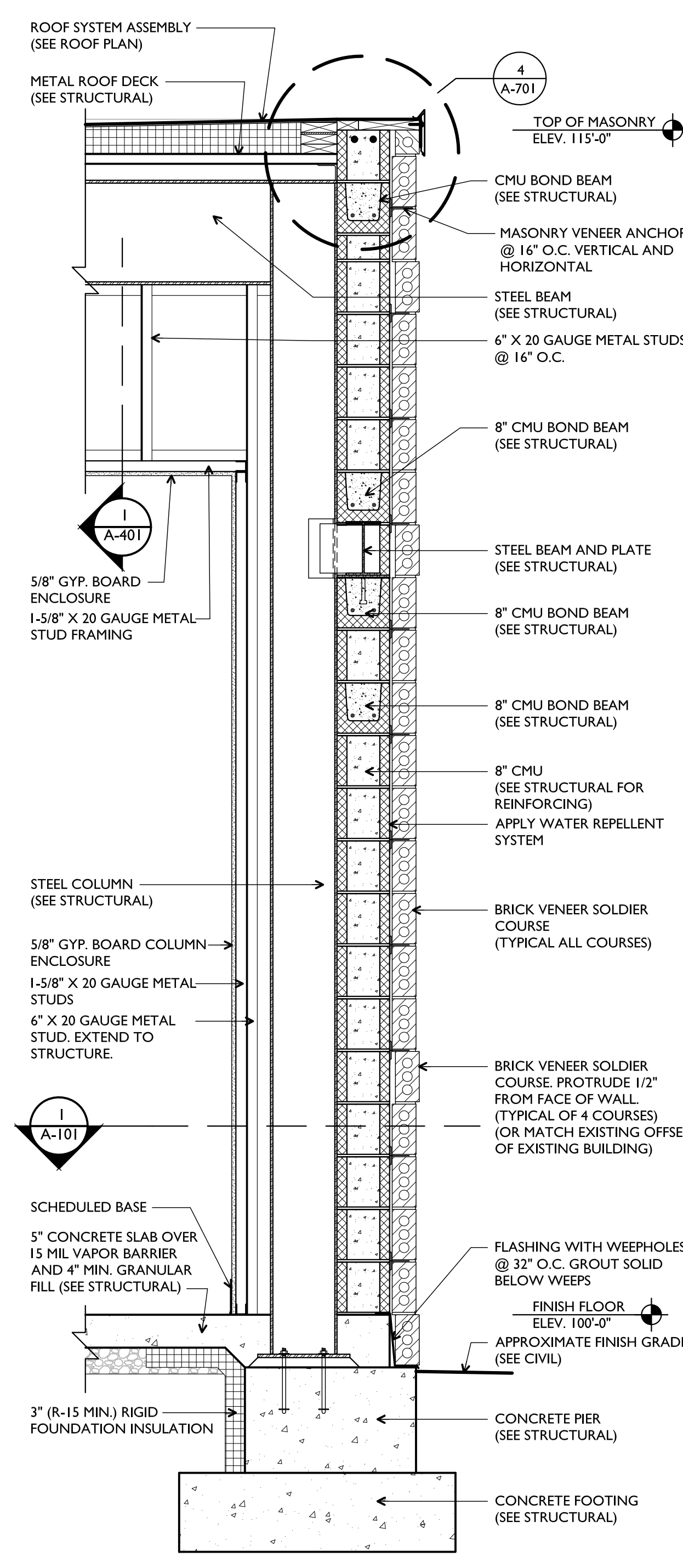
**5 Planter Detail**  
 A-704 full size plot scale: 1-1/2"=1'-0"



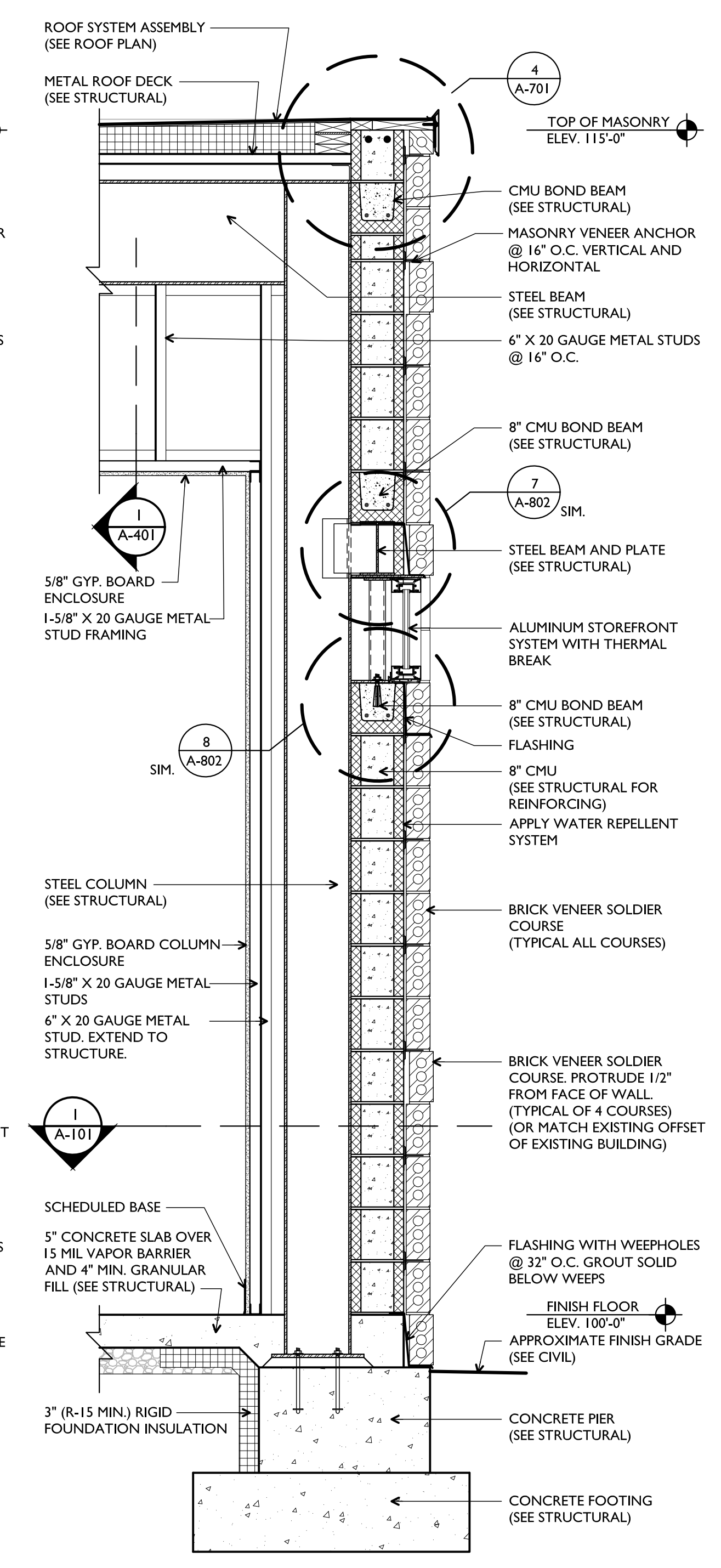
**4 Wall Section @ Planter**  
 A-704 full size plot scale: 3/4"=1'-0"



**3 Wall Section**  
 A-704 full size plot scale: 3/4"=1'-0"



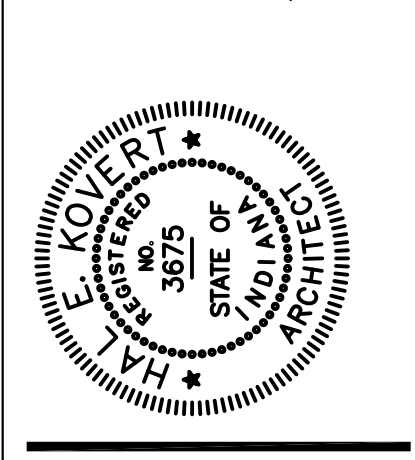
**2 Wall Section**  
 A-704 full size plot scale: 3/4"=1'-0"  
 (CUT THROUGH CENTER LINE OF COLUMN)



**1 Wall Section**  
 A-704 full size plot scale: 3/4"=1'-0"  
 (CUT THROUGH CENTER LINE OF COLUMN @ CONTINUOUS STOREFRONT SYSTEM)

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**Door/Frame Notes:**

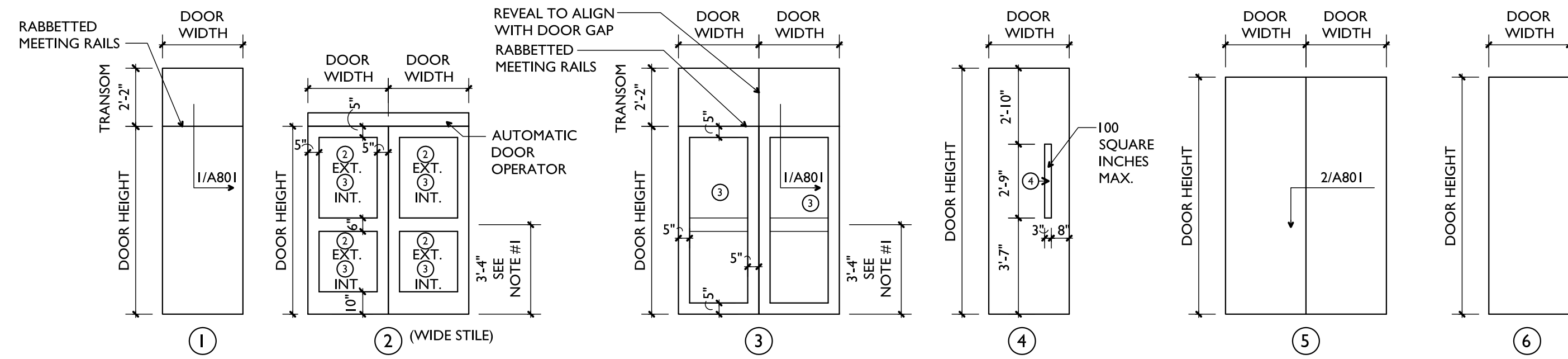
NOTE #1:  
CENTER PANIC DEVICE ON CENTER STILE.  
NO SHIM PERMITTED OVER OR VISIBLE  
THRU GLASS PANE.

**Door/Frame Glass Types**  
SEE SPECIFICATIONS SECTION 08800

- ① 1" THICK INSULATING GLASS  
TINTED, LOW-E
- ② 1" THICK INSULATING GLASS;  
TINTED, LOW-E SAFETY GLASS
- ③ 1/4" THICK SAFETY GLASS;  
CLEAR
- ④ 3/8" THICK FIRE AND IMPACT  
RATED SAFETY GLASS; CLEAR  
(60 MIN.)  
MAX. SHEET SIZE: 43" X 77"

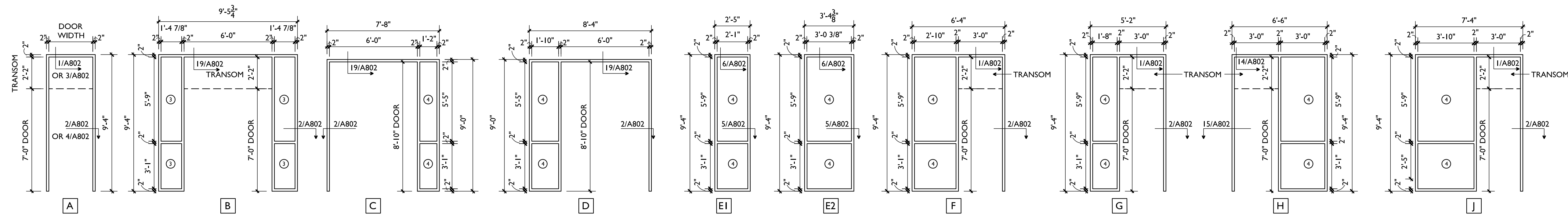
**Door and Frame Schedule**

IDEN.	DOORS				FRAMES				HDWR SET #	REMARKS			
	SIZE (W X H X T)	MATERIAL	RATED	ELEV.	MATERIAL	HEAD	JAMB	THRESHOLD			LABEL	ELEV.	
101a	PAIR 3'-0" X 7'-0" X 1-3/4" +/-	ALUMINUM		2	EXIST. ALUM	12/A802	13/A802	11/A802		05	1	EXISTING FRAMES TO REMAIN, MATCH EXISTING DOOR SIZES	
101b	PAIR 3'-0" X 7'-0" X 1-3/4" +/-	ALUMINUM		2	EXIST. ALUM	12/A802	13/A802			05	2	EXISTING FRAMES TO REMAIN, MATCH EXISTING DOOR SIZES	
102	REPLACING LOCKSET ONLY-LEVER TYPE										9	MAINTAIN EXISTING DOOR	
103	REPLACING LOCKSET ONLY-LEVER TYPE										9	MAINTAIN EXISTING DOOR	
105	3'-0" X 7'-0" X 1-3/4"	S.C. WOOD	20 MIN	1	H. METAL	1/A802	2/A802			20 MIN	A	3	WITH 20 MIN. RABBETED TRANSOM
107	3'-0" X 9'-2" X 1-3/4"	S.C. WOOD	90 MIN	4	H. METAL	3/A802	4/A802			90 MIN	A	3	
109	3'-0" X 7'-0" X 1-3/4"	S.C. WOOD		1	H. METAL	1/A802	2/A802				A	4	WITH RABBETED TRANSOM
110	3'-0" X 7'-0" X 1-3/4"	S.C. WOOD		1	H. METAL	1/A802	2/A802				A	3	WITH RABBETED TRANSOM
113	3'-0" X 9'-2" X 1-3/4"	S.C. WOOD	90 MIN	4	H. METAL	3/A802	4/A802			90 MIN	A	3	WITH RABBETED TRANSOM, PROVIDE WITH MAGNETIC HOLD OPEN
114	3'-0" X 9'-2" X 1-3/4"	S.C. WOOD	90 MIN	6	H. METAL	3/A802	4/A802			90 MIN	A	3	
115	3'-0" X 9'-2" X 1-3/4"	S.C. WOOD	90 MIN	6	H. METAL	3/A802	4/A802			90 MIN	A	3	
118a	PAIR 3'-0" X 7'-0" X 1-3/4" +/-	ALUMINUM		2	EXIST. ALUM	12/A802	13/A802	11/A802		05	1	EXISTING FRAMES TO REMAIN, MATCH EXISTING DOOR SIZES	
118b	PAIR 3'-0" X 7'-0" X 1-3/4" +/-	ALUMINUM		2	EXIST. ALUM	12/A802	13/A802			05	2	EXISTING FRAMES TO REMAIN, MATCH EXISTING DOOR SIZES	
119	REPLACING LOCKSET ONLY-LEVER TYPE										9	MAINTAIN EXISTING DOOR	
120	REPLACING LOCKSET ONLY-LEVER TYPE										9	MAINTAIN EXISTING DOOR	
121a	3'-6" X 7'-0" X 1-3/4"	S.C. WOOD		1	H. METAL	1/A802	2/A802				A	4	WITH RABBETED TRANSOM
121b	3'-0" X 7'-0" X 1-3/4"	S.C. WOOD	20 MIN	1	H. METAL	1/A802	2/A802			20 MIN	A	3	WITH 20 MIN. RABBETED TRANSOM
122	3'-6" X 7'-0" X 1-3/4"	S.C. WOOD	20 MIN	1	H. METAL	1/A802	2/A802			20 MIN	A	3	WITH 20 MIN. RABBETED TRANSOM
123	3'-0" X 7'-0" X 1-3/4"	S.C. WOOD	20 MIN	1	H. METAL	14/A802	15/A802			20 MIN	H	3	WITH 20 MIN. RABBETED TRANSOM
124	3'-0" X 7'-0" X 1-3/4"	S.C. WOOD	20 MIN	1	H. METAL	1/A802	2/A802			20 MIN	F	3	WITH 20 MIN. RABBETED TRANSOM
125	3'-0" X 7'-0" X 1-3/4"	S.C. WOOD	20 MIN	1	H. METAL	1/A802	2/A802			20 MIN	G	3	WITH 20 MIN. RABBETED TRANSOM
126	3'-0" X 7'-0" X 1-3/4"	S.C. WOOD	20 MIN	1	H. METAL	1/A802	2/A802			20 MIN	J	3	WITH 20 MIN. RABBETED TRANSOM
128a	PAIR 3'-0" X 7'-0" X 1-3/4"	S.C. WOOD		3	H. METAL	19/A802	2/A802				B	5	WITH RABBETED TRANSOM
128b	3'-0" X 7'-0" X 1-3/4"	ALUMINUM		2	ALUMINUM	16/A802	17/A802	10/A802			02	7	PROVIDE SPLIT ASTRAGAL, PROVIDE WITH MAGNETIC HOLD OPEN
129a	PAIR 3'-0" X 8'-10" X 1-3/4"	S.C. WOOD	20 MIN	5	H. METAL	19/A802	2/A802			20 MIN	C	6	PROVIDE SPLIT ASTRAGAL, PROVIDE WITH MAGNETIC HOLD OPEN
129b	BY OPERABLE PANEL MANUFACTURER										8	POCKET DOOR	
130a	BY OPERABLE PANEL MANUFACTURER										8	EGRESS DOOR	
130b	BY OPERABLE PANEL MANUFACTURER										8	EGRESS DOOR	
130c	PAIR 3'-0" X 8'-10" X 1-3/4"	S.C. WOOD	20 MIN	5	H. METAL	19/A802	2/A802			20 MIN	D	6	PROVIDE SPLIT ASTRAGAL, PROVIDE WITH MAGNETIC HOLD OPEN



**Door Elevations**

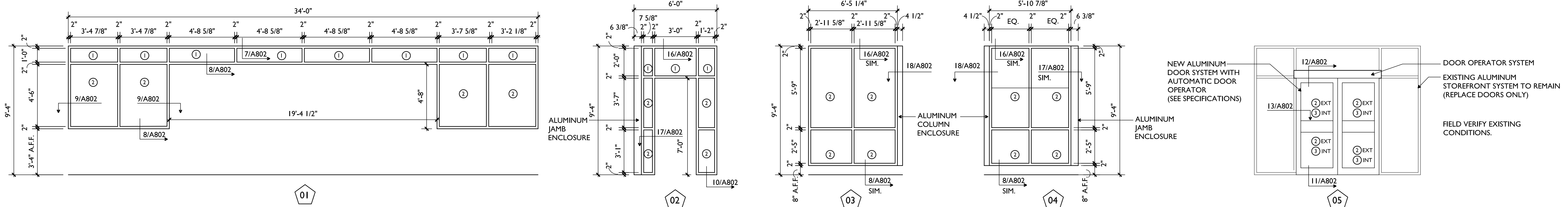
SCALE: 1/4"=1'-0"



**Hollow Metal Frame Elevations**

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

NOTE: SEE DOOR SCHEDULE FOR RATING REQUIREMENTS.

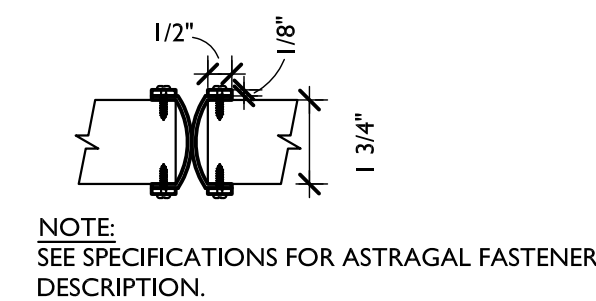


**Aluminum Storefront Frame Elevations**

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

**Notice**

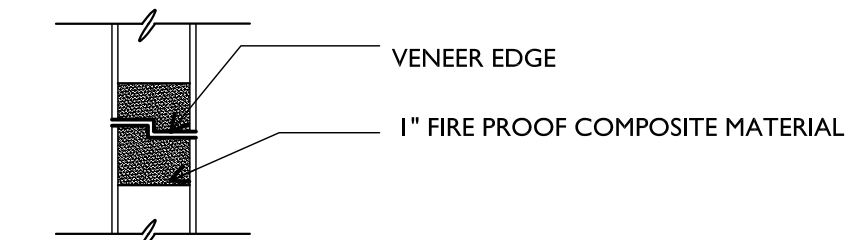
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NOTE: SEE SPECIFICATIONS FOR ASTRAGAL FASTENER DESCRIPTION.

**Split Astragal At Rated Doors**

2 A-801 SCALE: 3" = 1'-0"



**20 Min. Rabbeted Meeting Rails**

1 A-801 SCALE: 3" = 1'-0"

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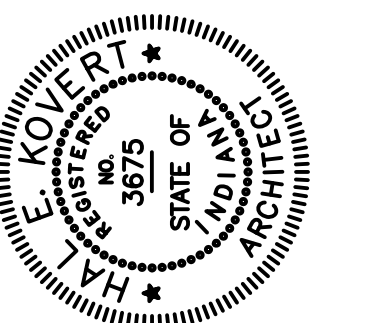


**KovertHawkins**  
architects

Drawn: ZW / BB  
Checked By: HK  
Project No.: 1723.02  
Date: 12/07/2017

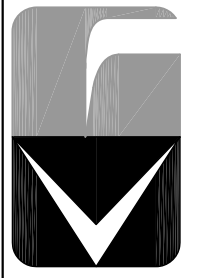
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Certified By: *[Signature]*

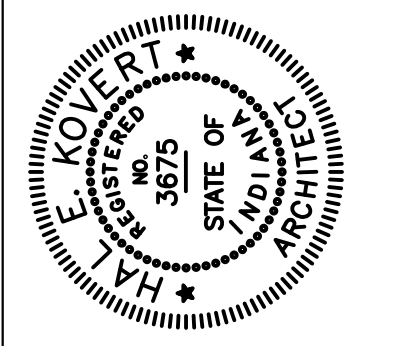


**2018 Renovation & Addition**  
**Clarksville Branch Library**  
Jeffersonville Township Public Library  
Clarksville, Indiana 47129  
1312 Eastern Boulevard

Sheet  
**A-801**

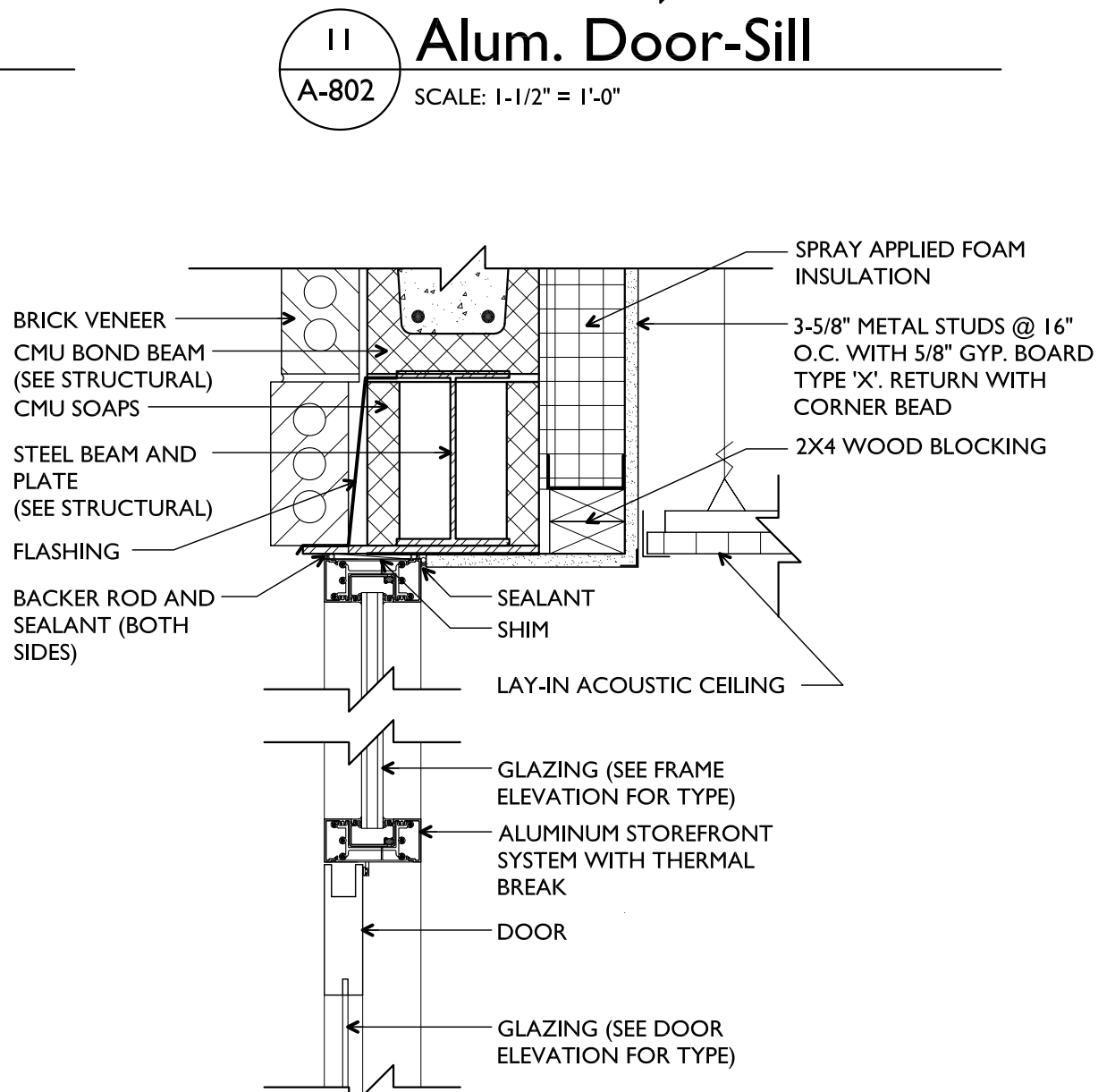
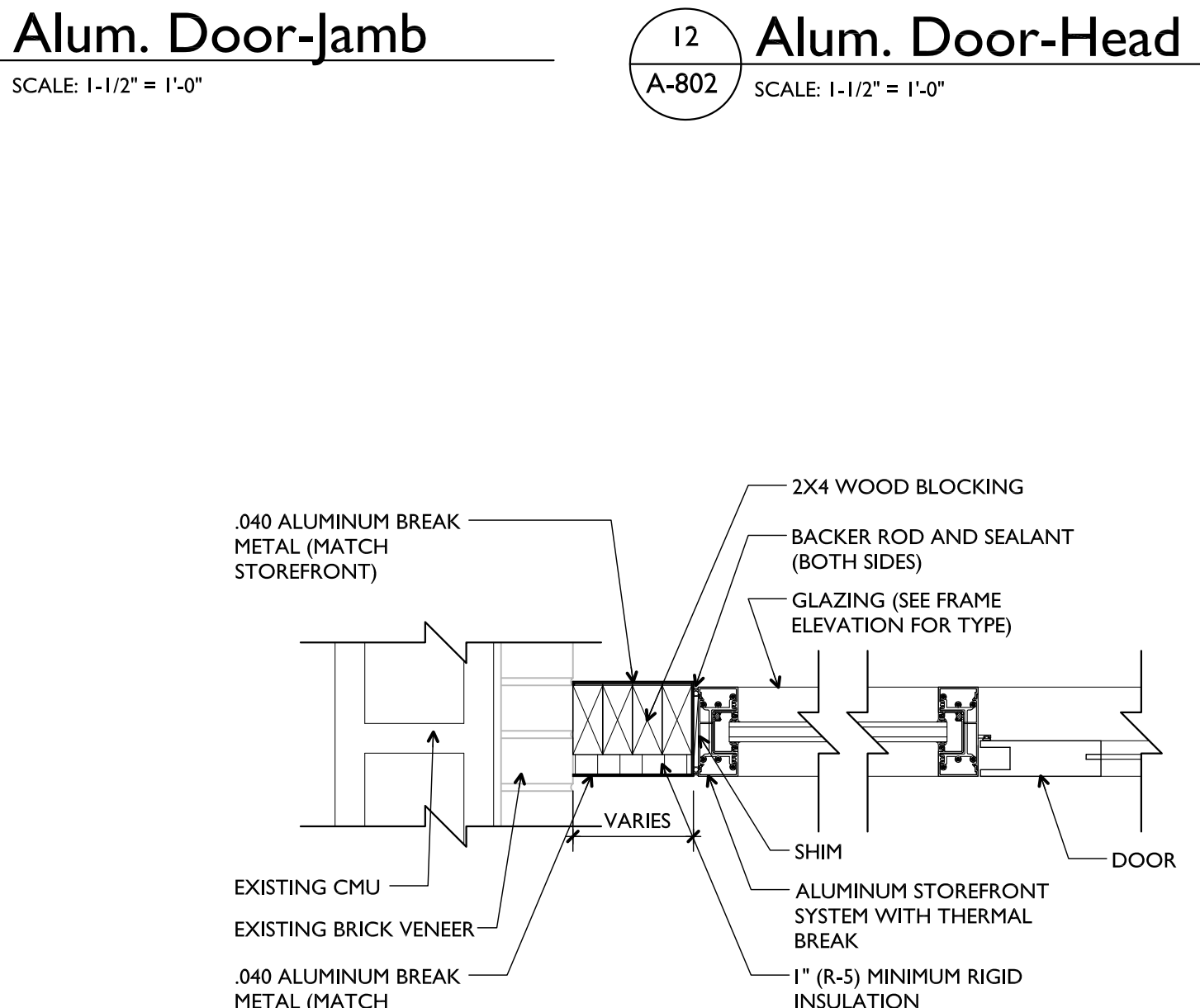
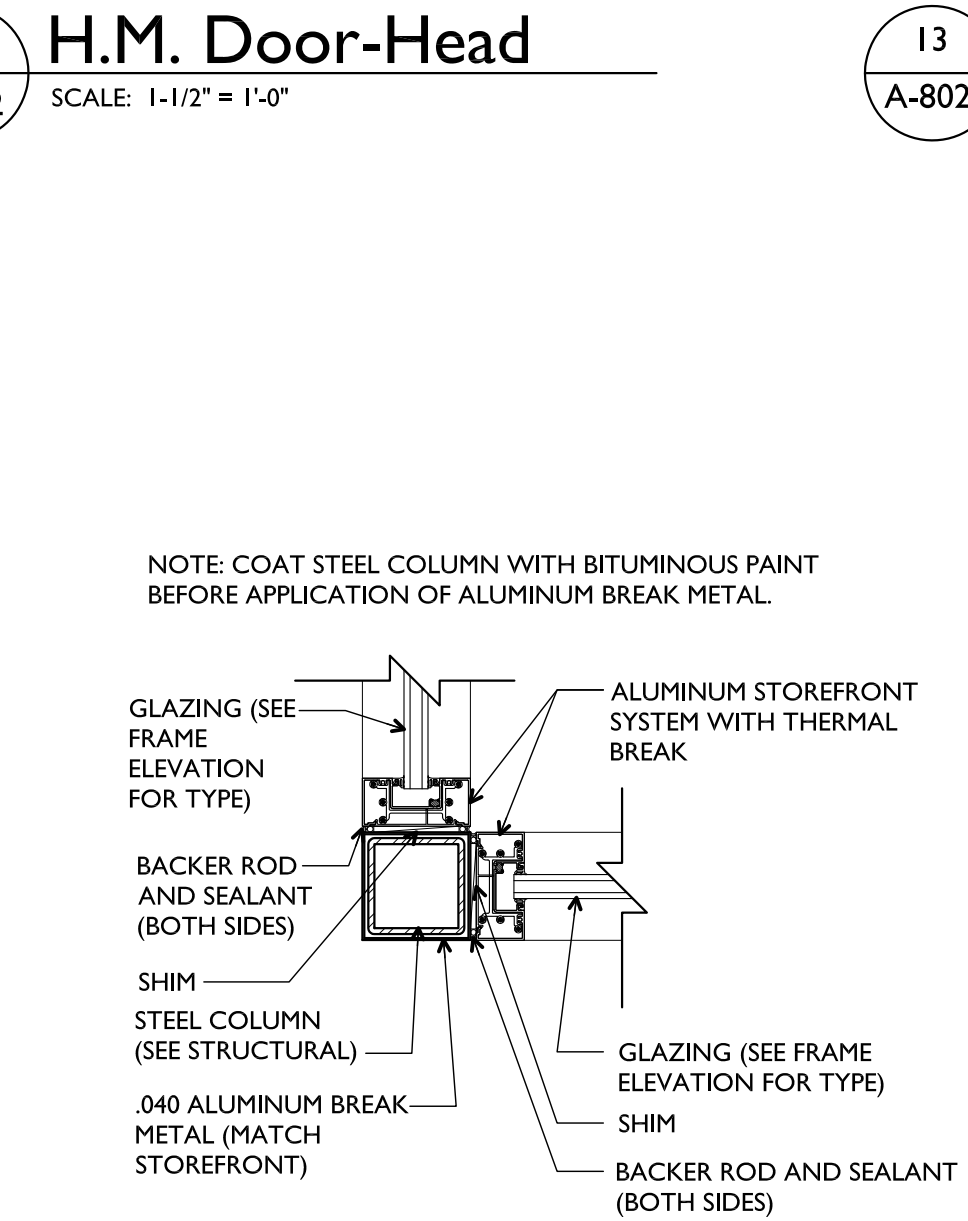
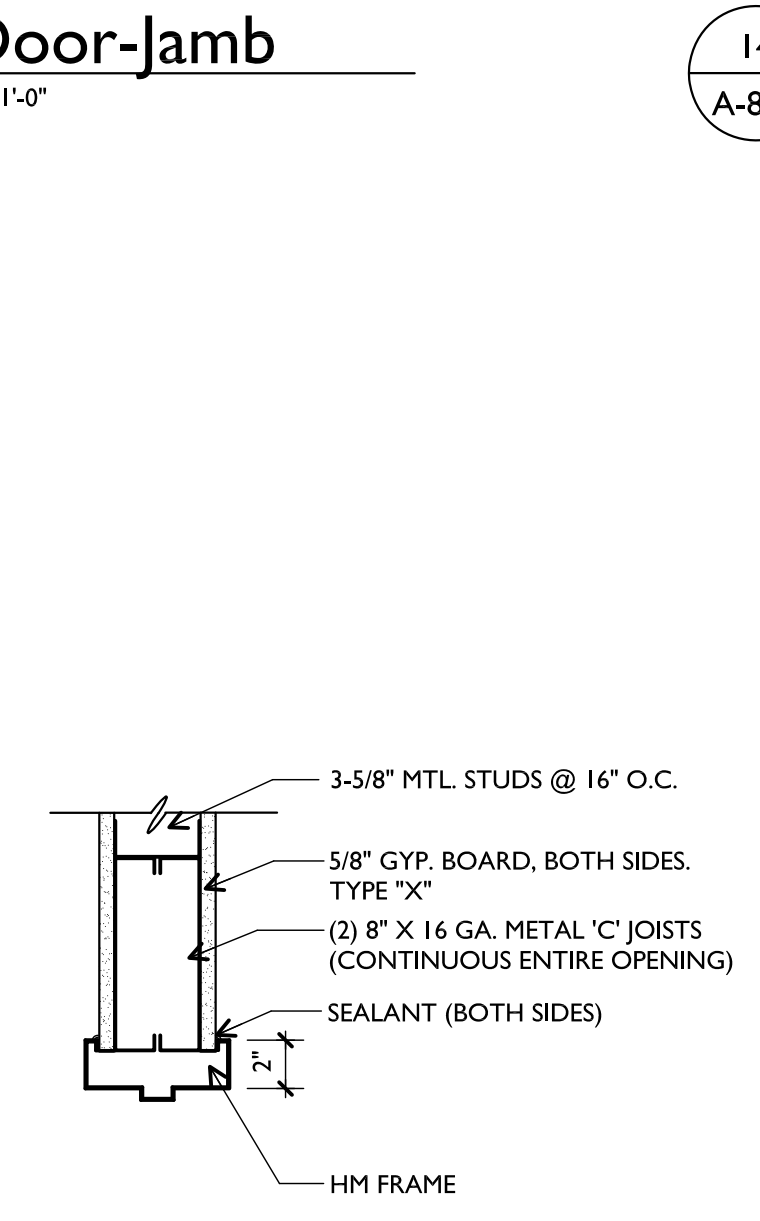
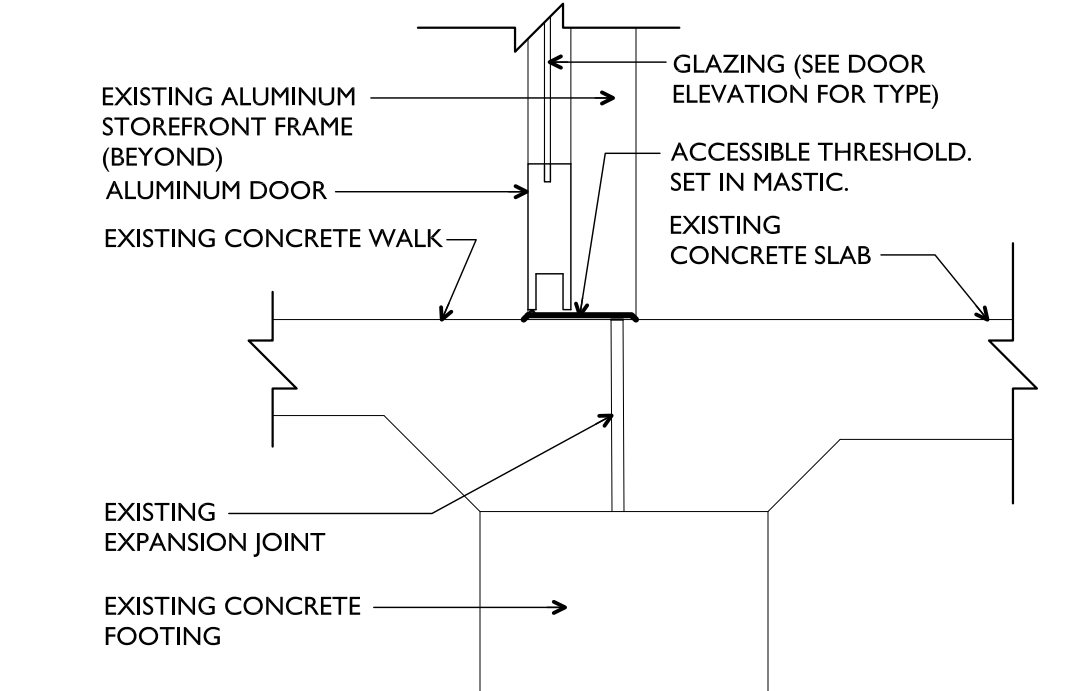
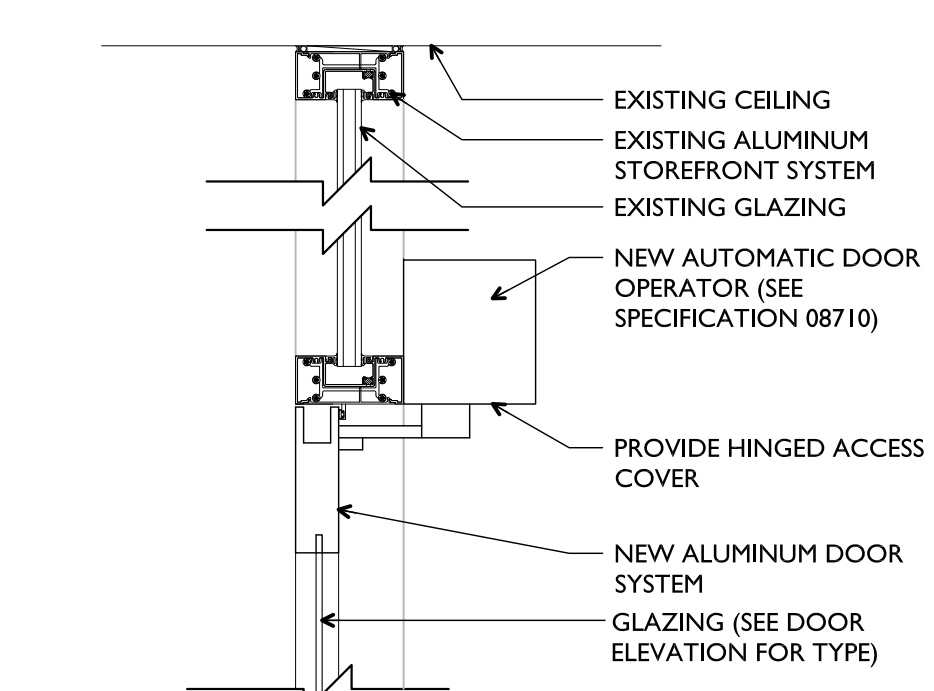
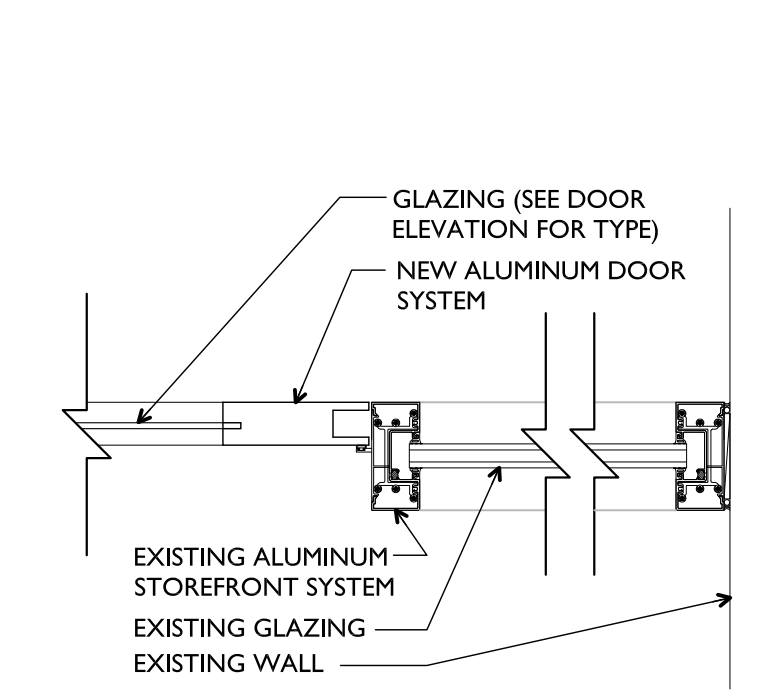
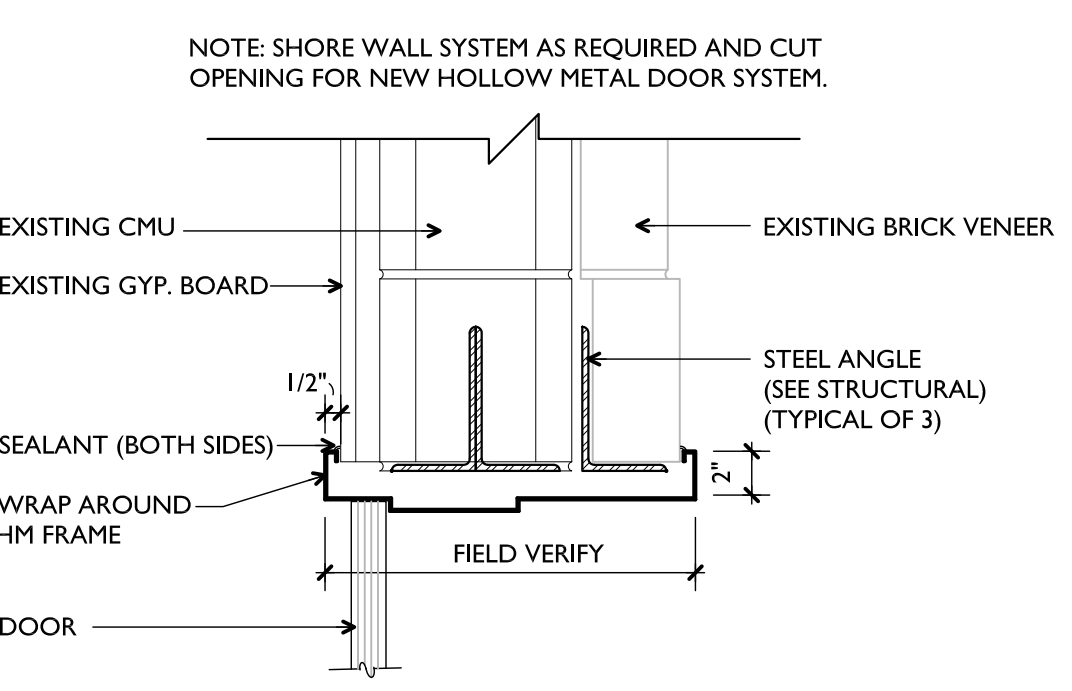
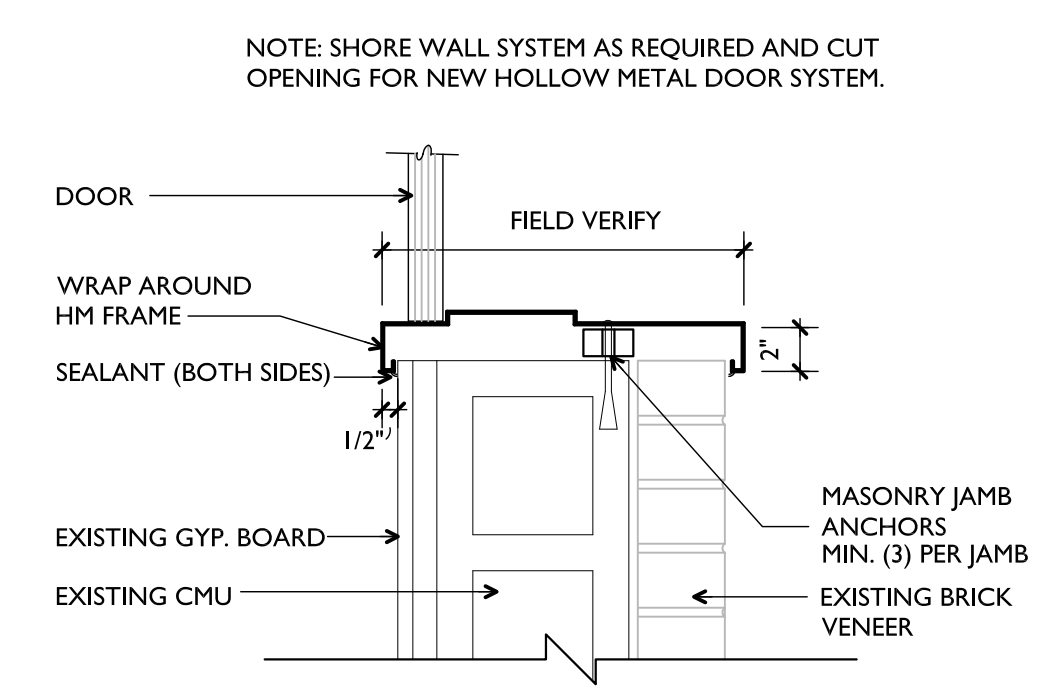
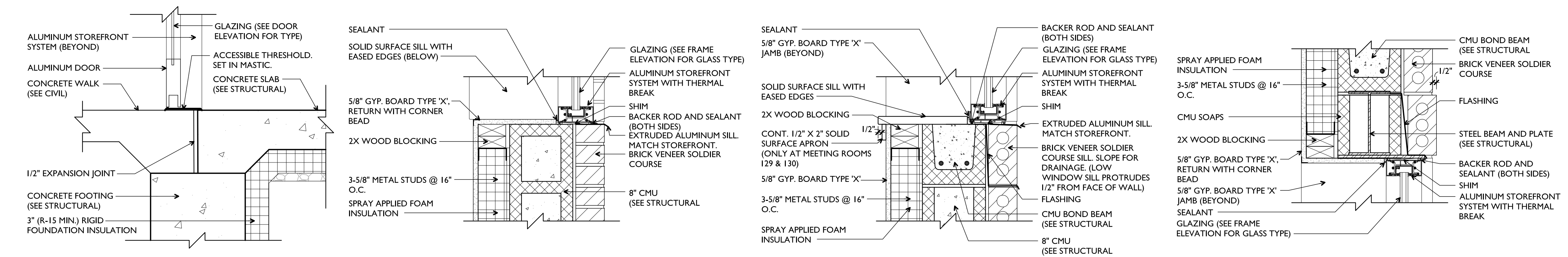
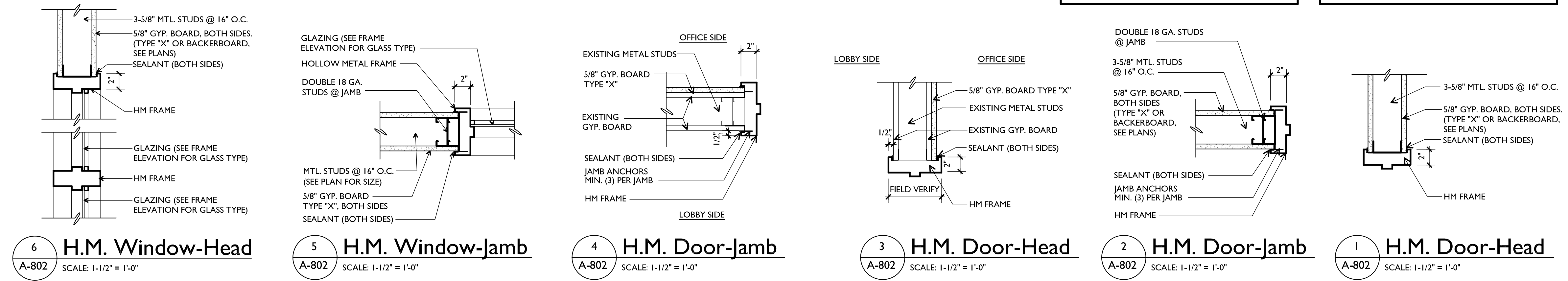


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1723.02	Project No.	3
12/07/2017	Date	4
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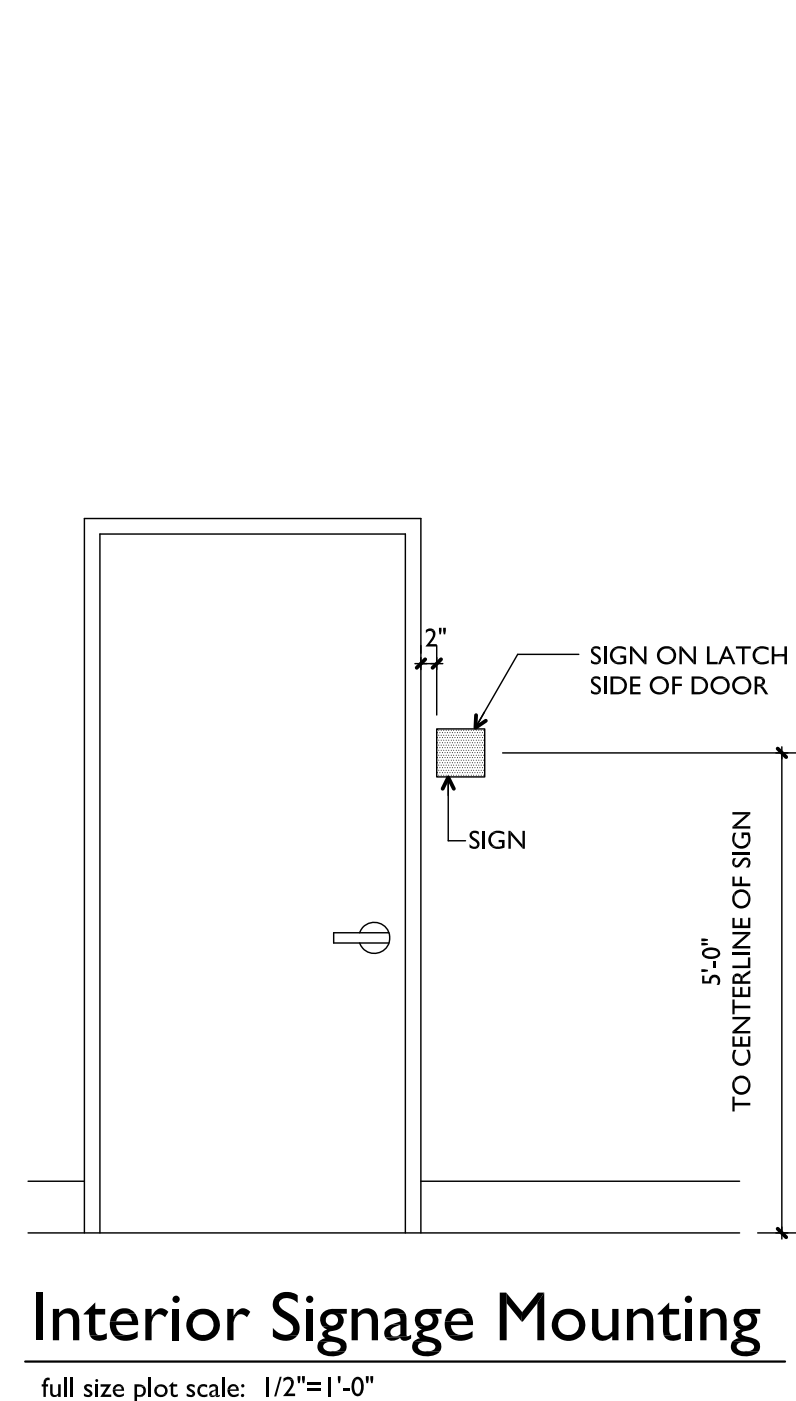
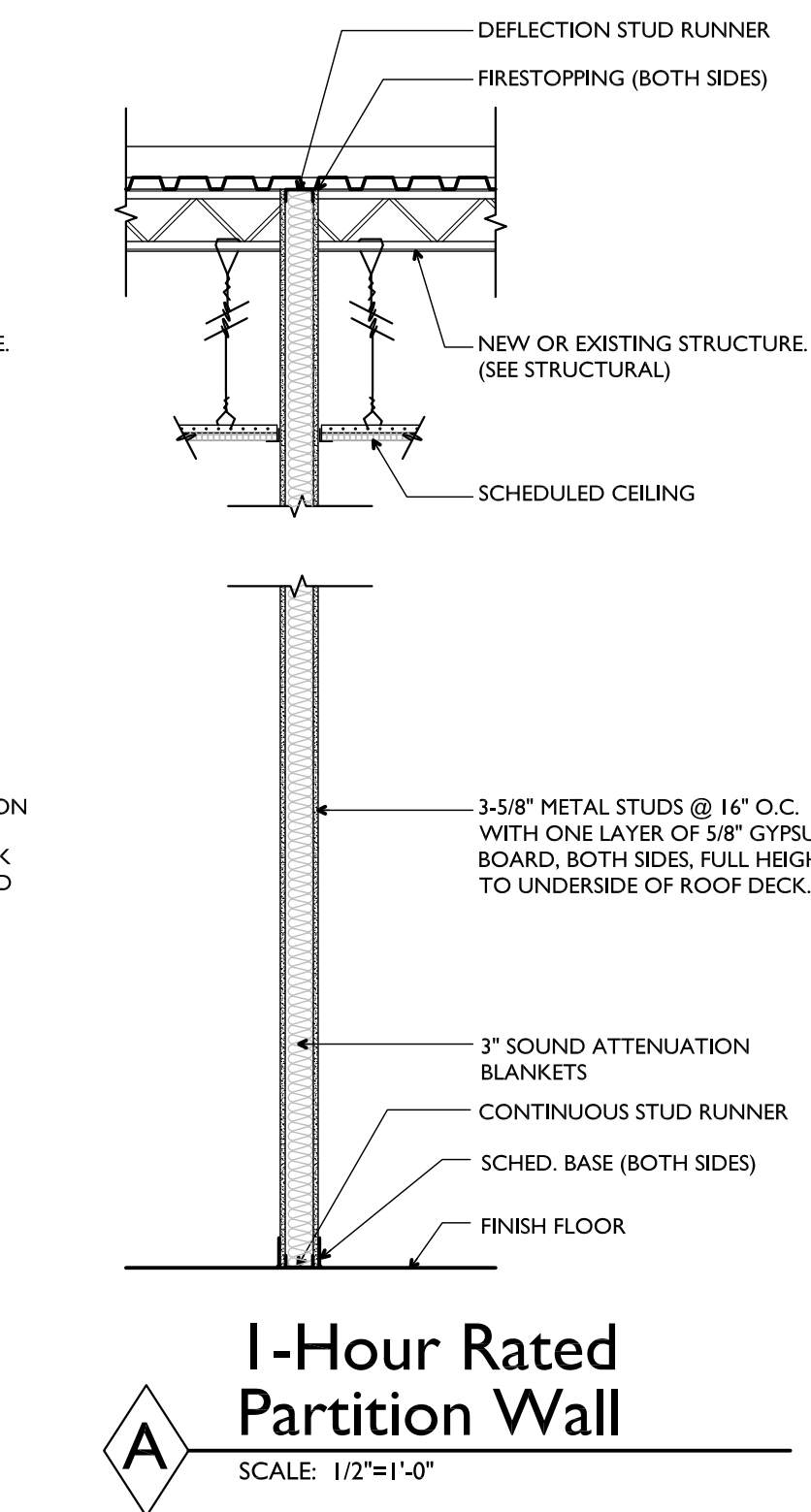
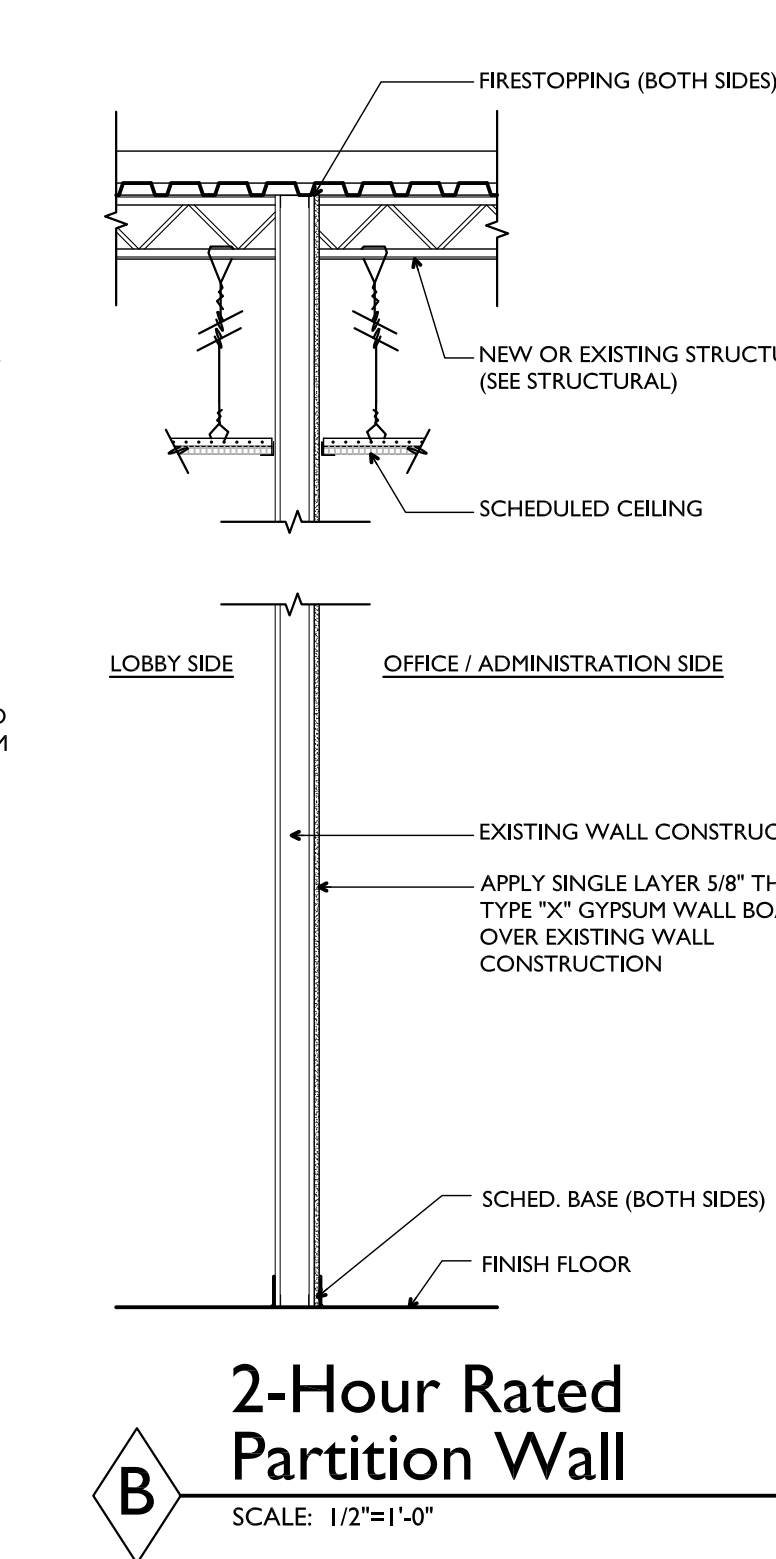
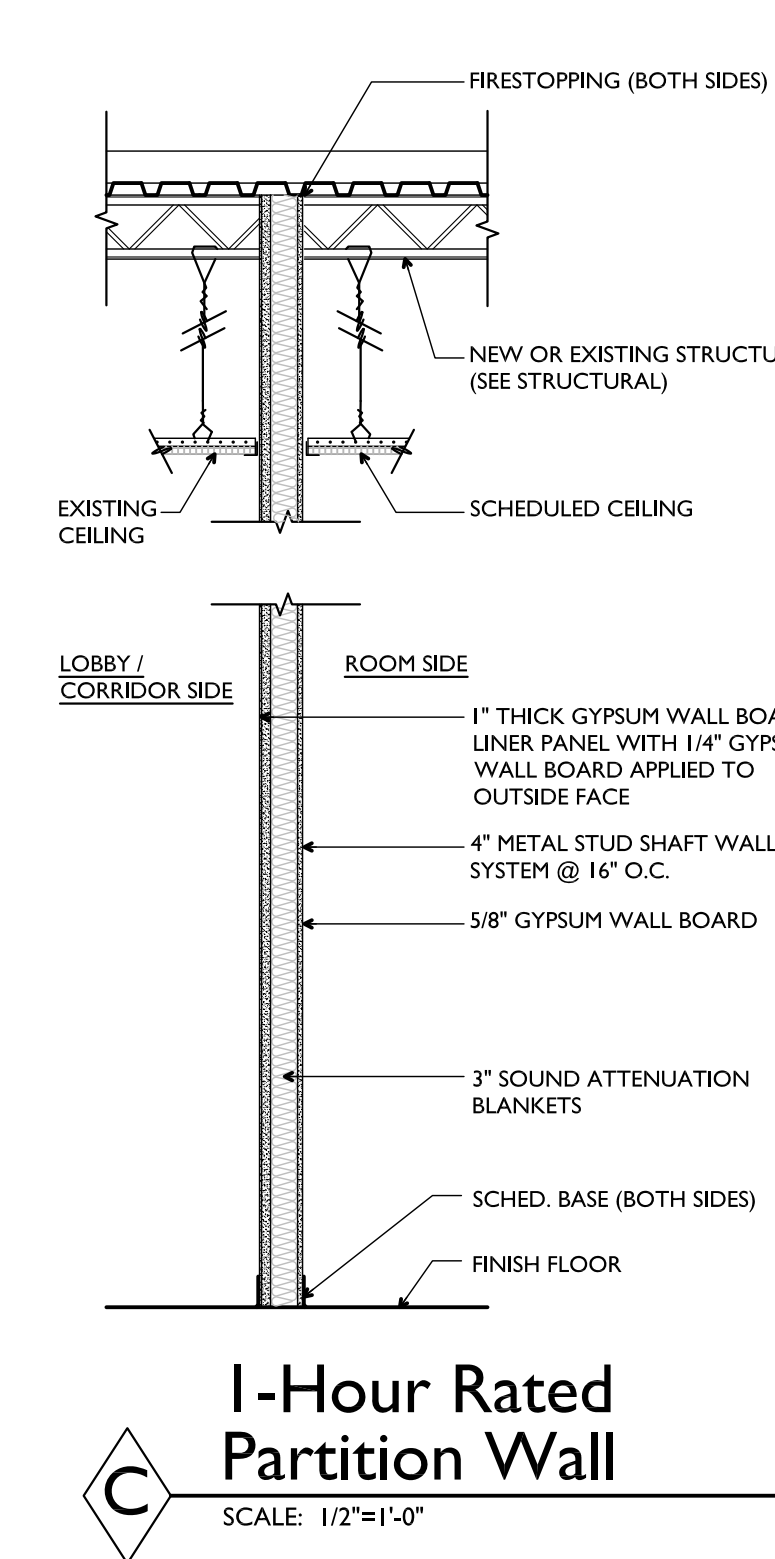
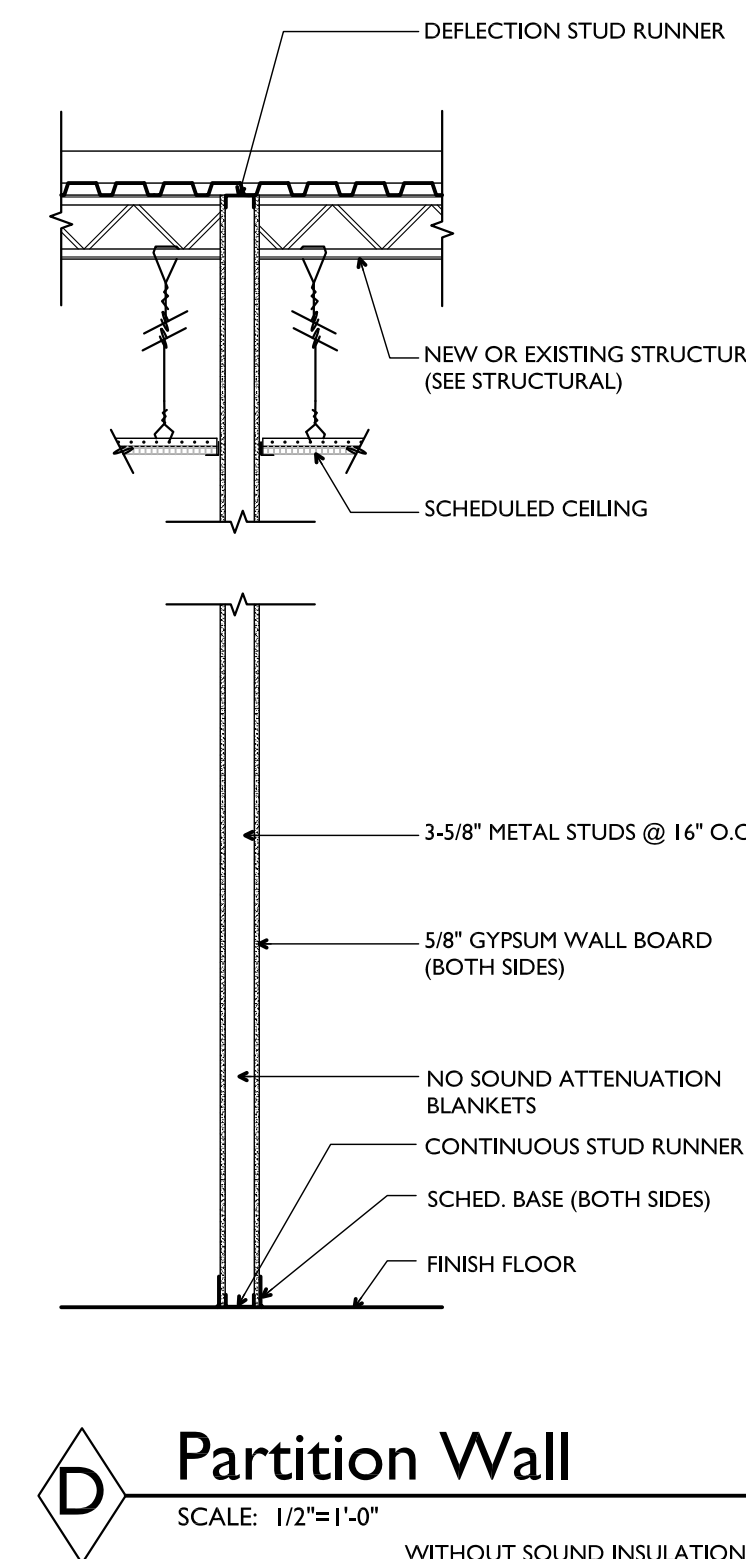
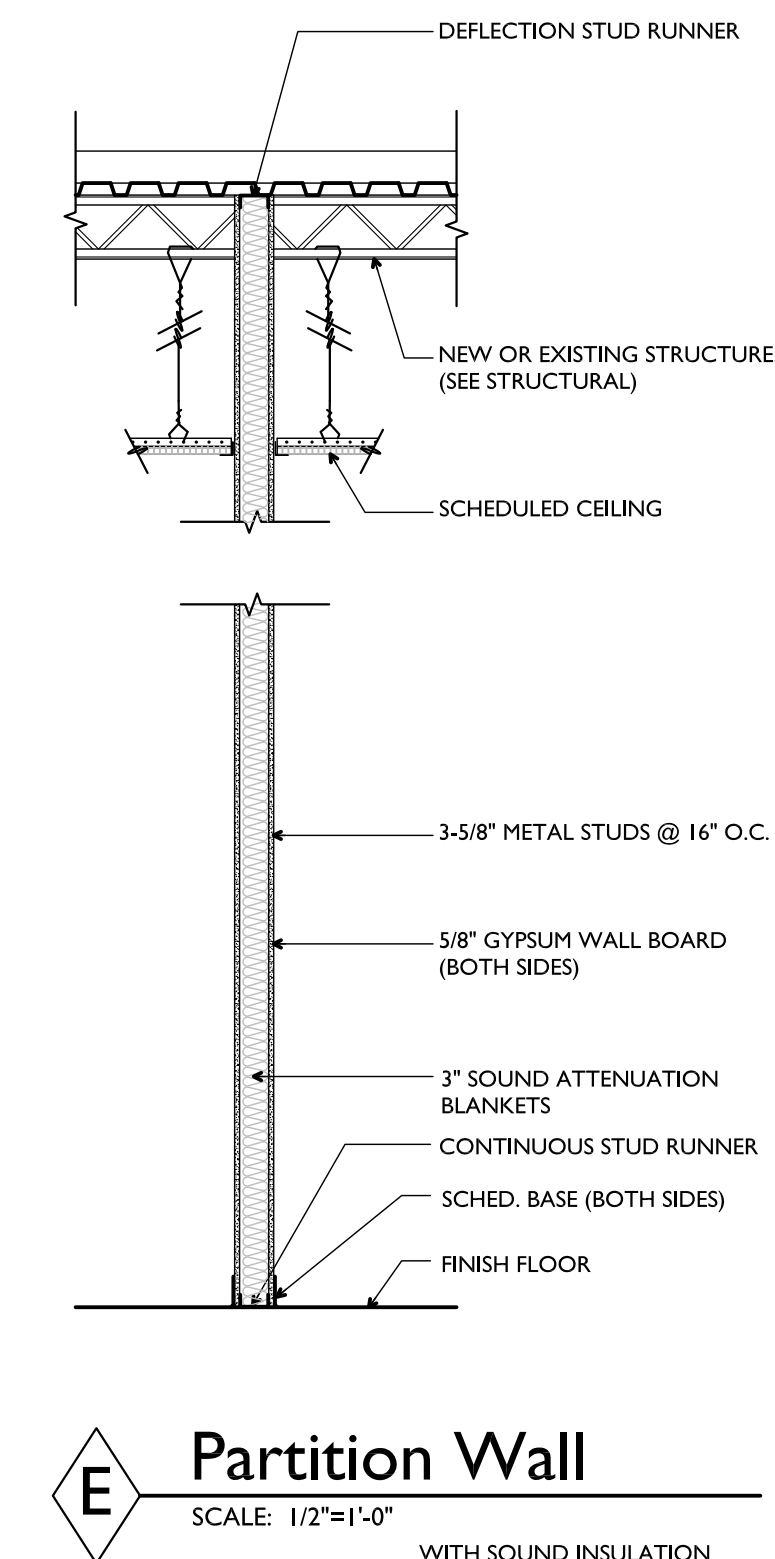
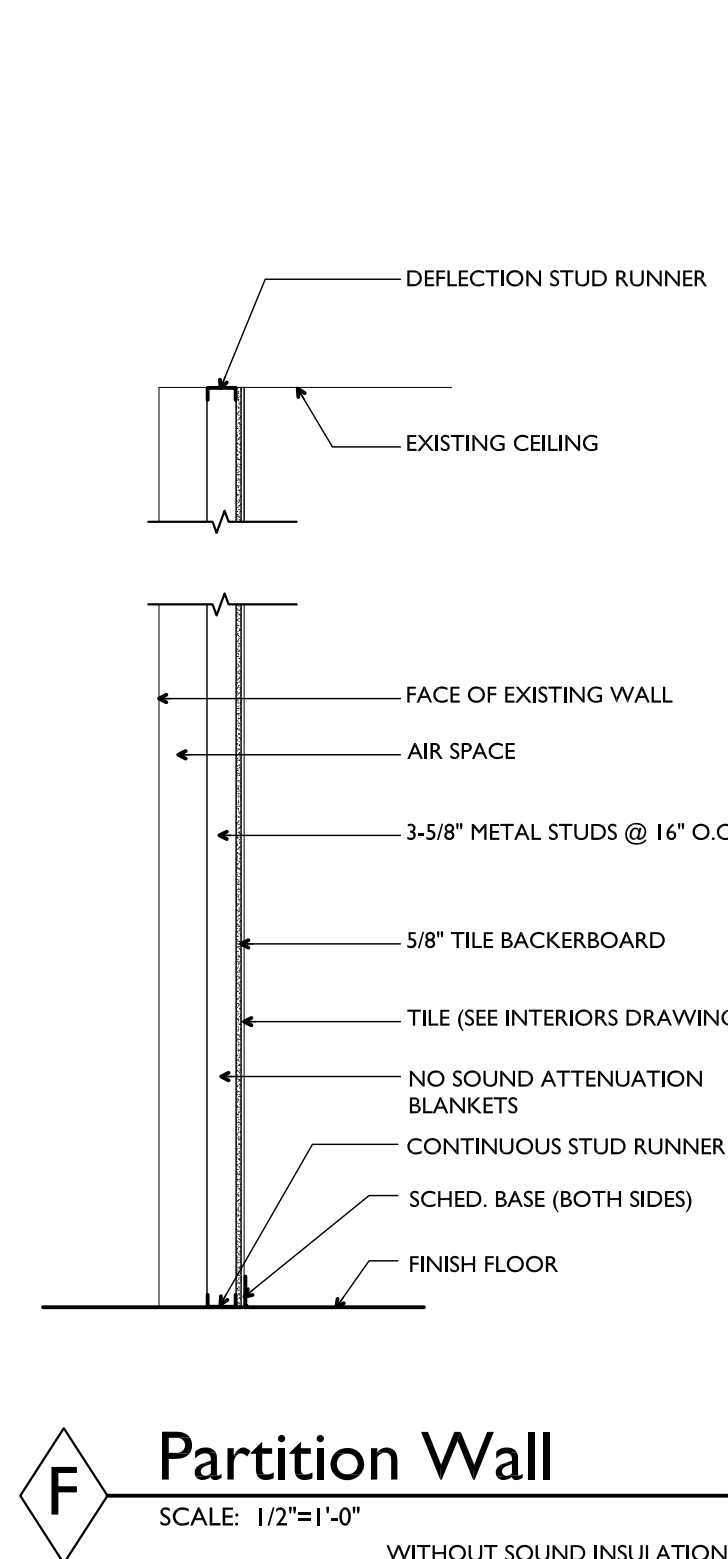
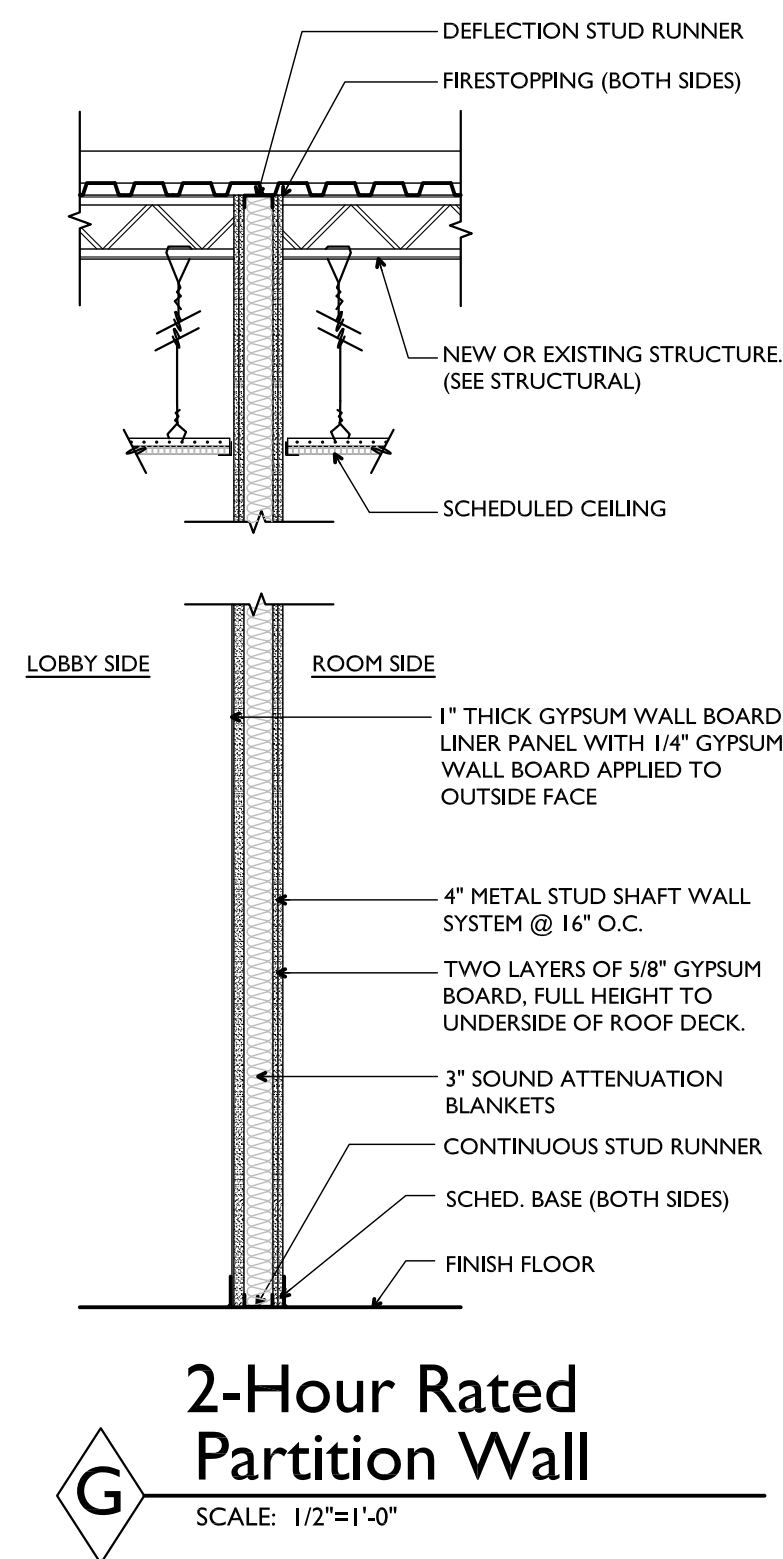
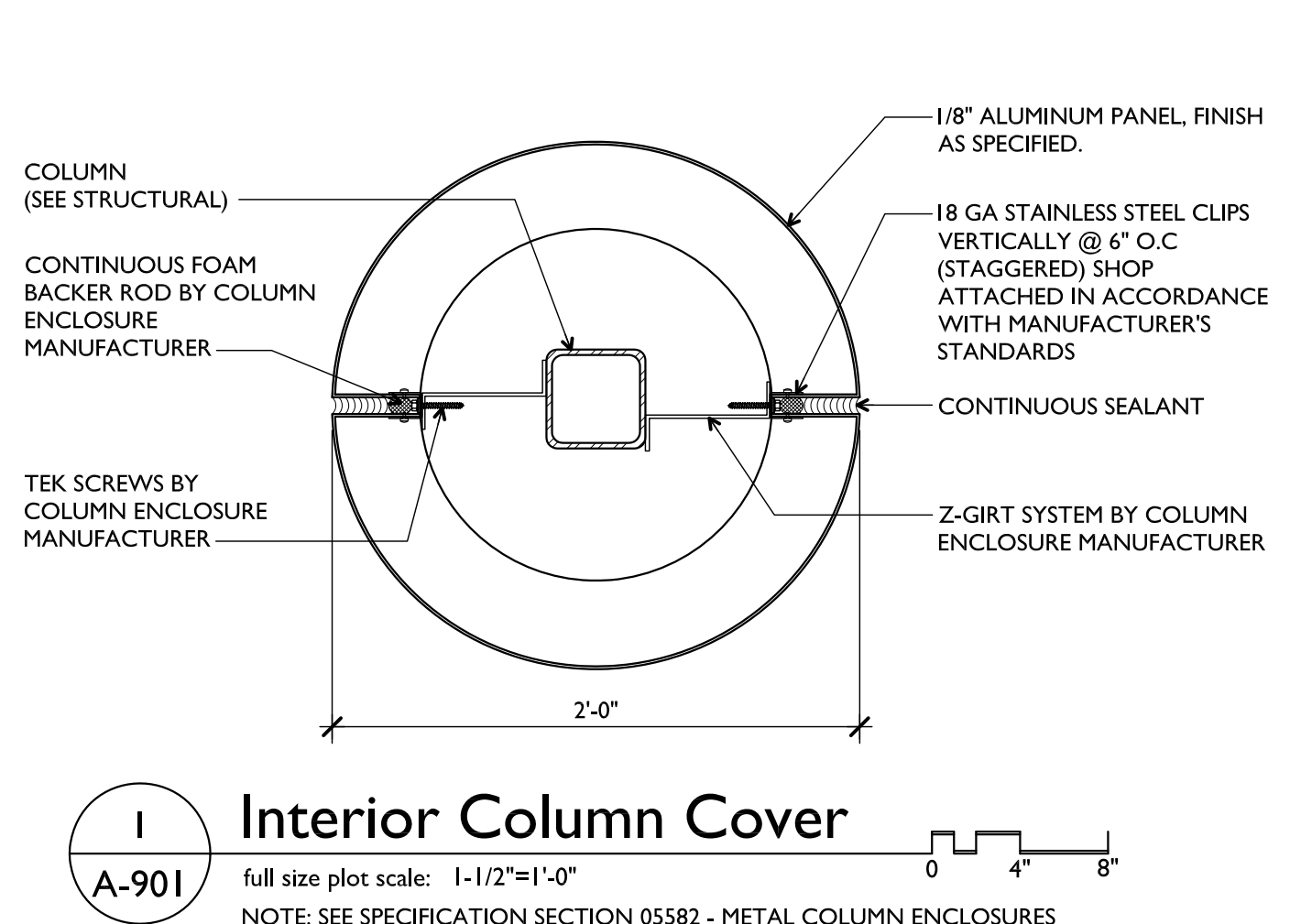
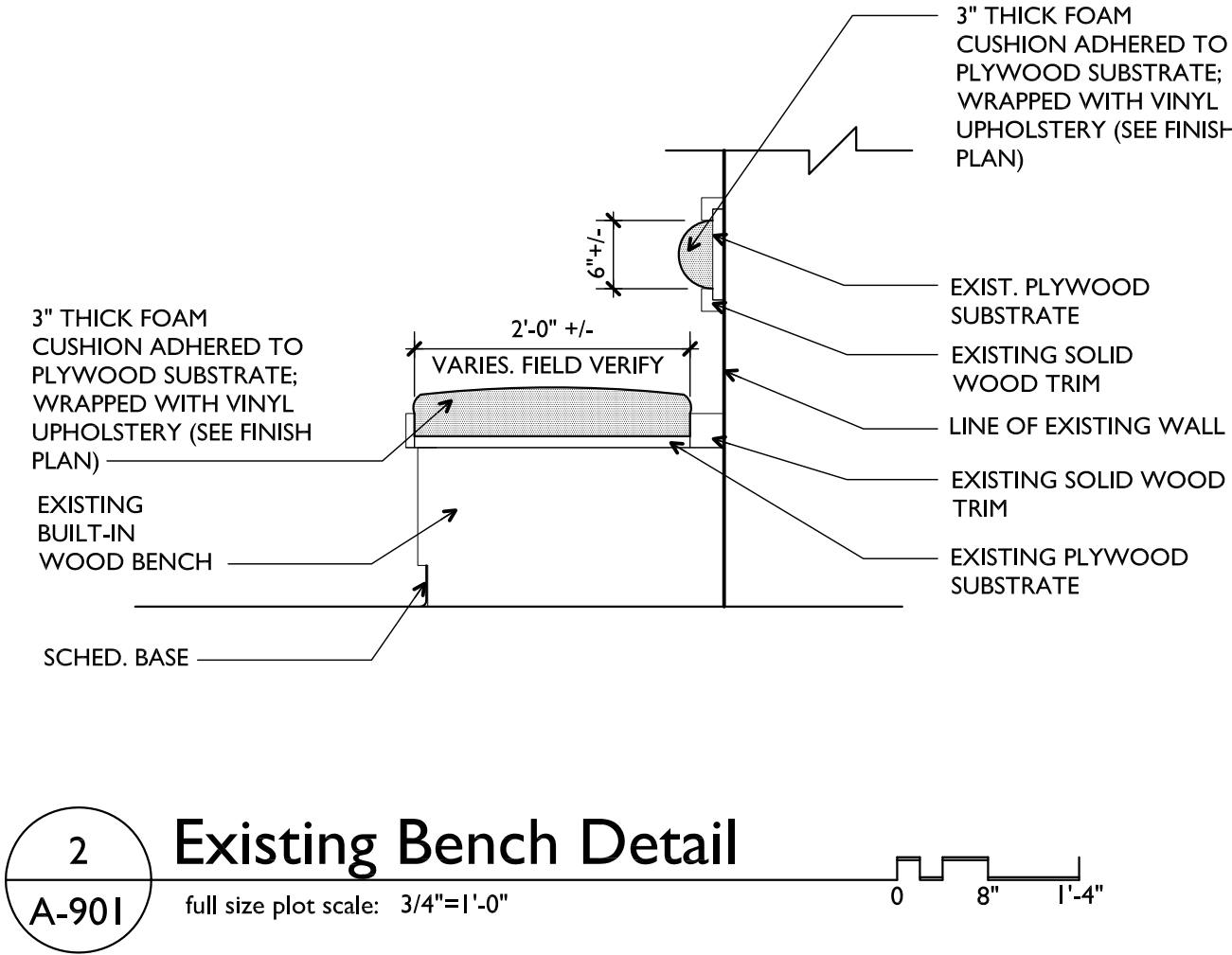
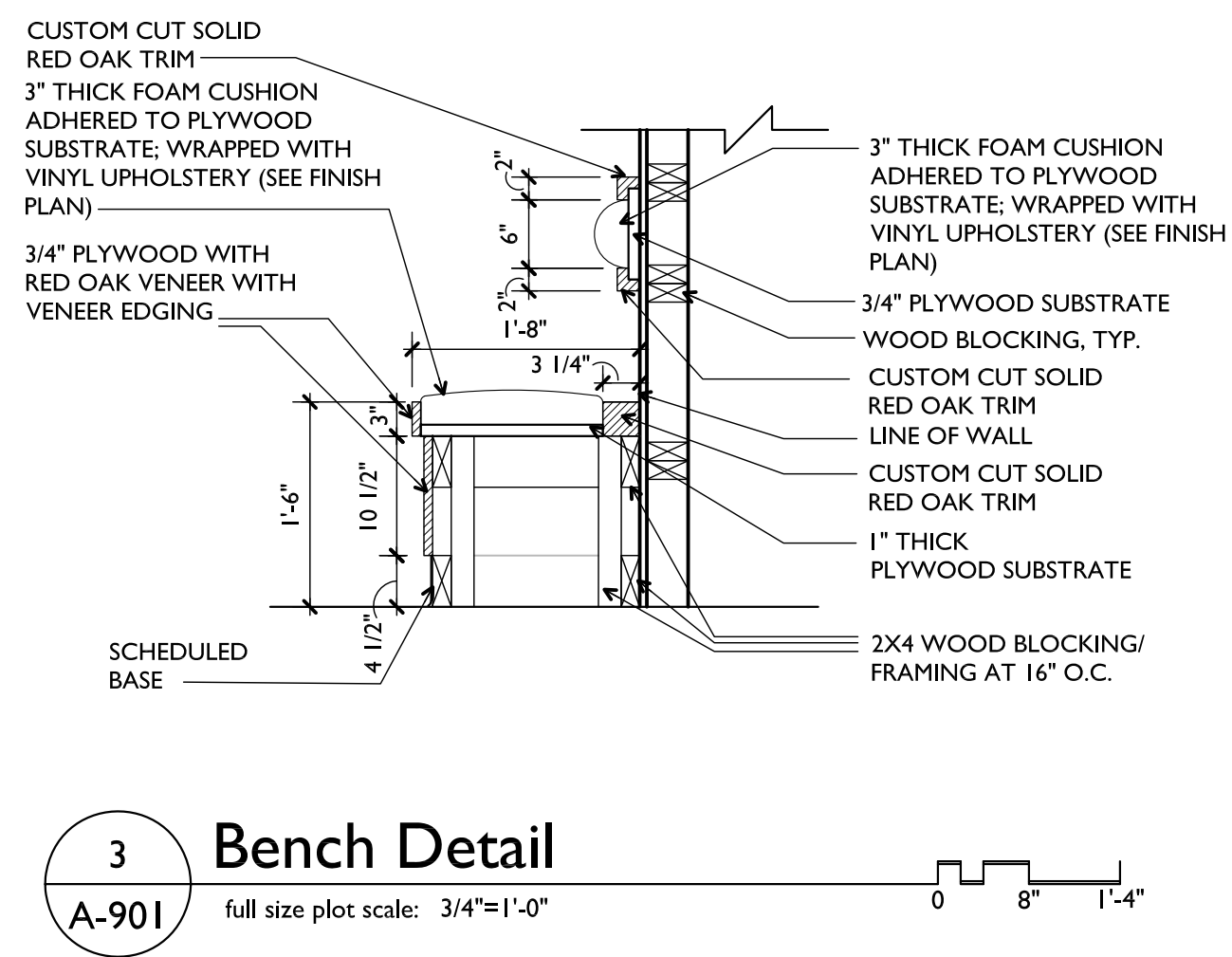
NOTE:  
SEE DOOR SCHEDULE AND LIFE SAFETY PLAN FOR  
RATING REQUIREMENTS.

NOTE:  
SEE WALL PARTITION TYPES AND SECTIONS FOR  
LOCATIONS OF SOUND ATTENUATION BLANKETS.

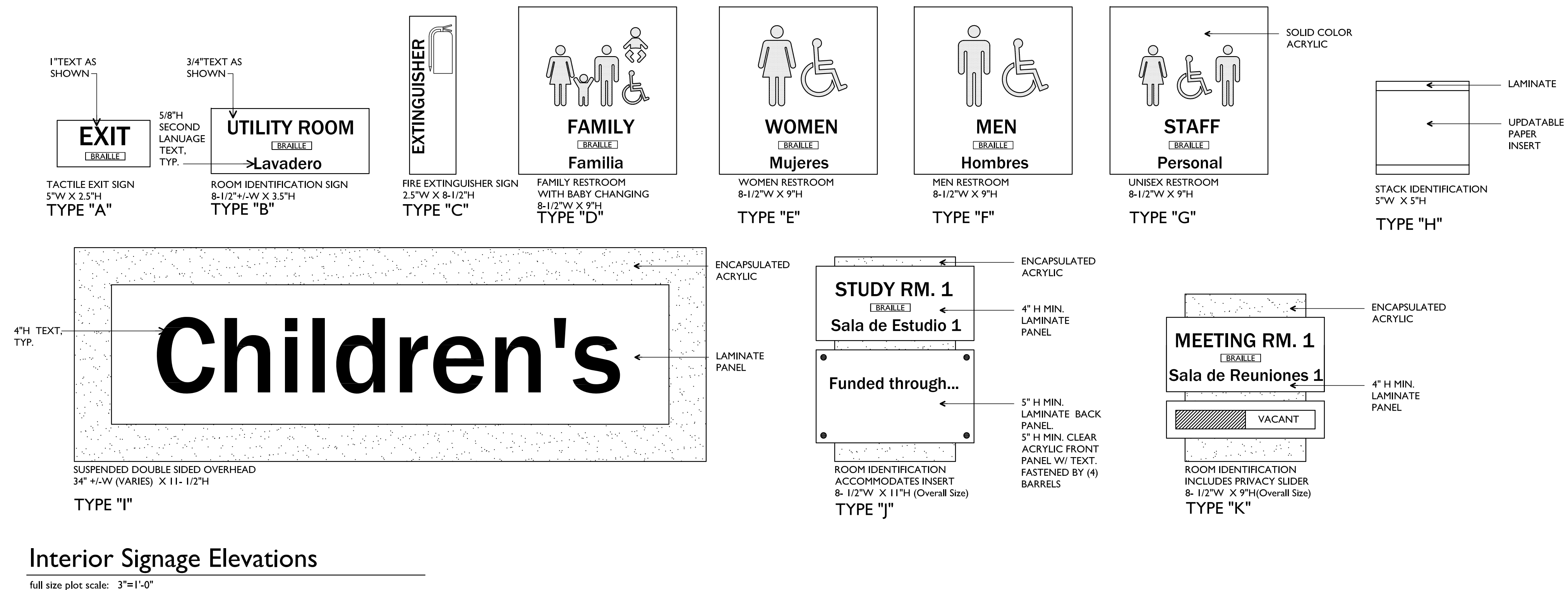


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**KovertHawkins**  
 architects

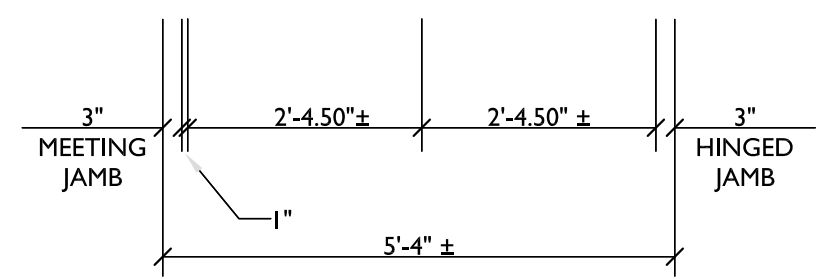
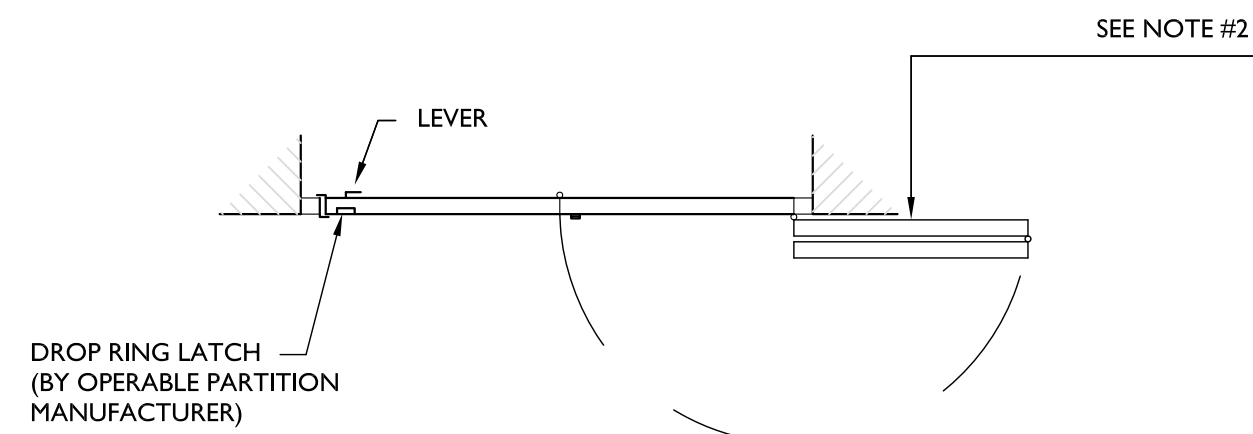
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 Project No.: 1723.02  
 Date: 12/07/2017

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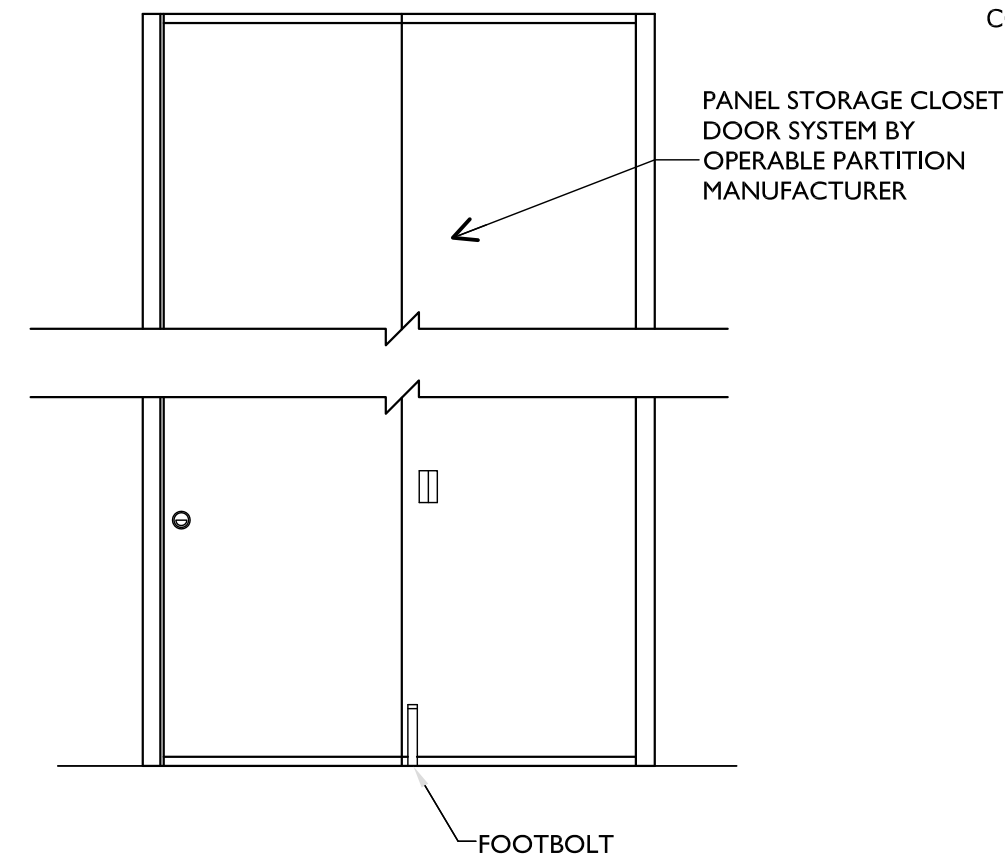
HALLOWELL, ME  
 KOVERT, RT. 4  
 W. 3675  
 STATE OF  
 INDIANA  
 ARCHITECT

2018 Renovation & Addition  
**Clarksville Branch Library**  
 Jeffersonville Township Public Library  
 1312 Eastern Boulevard  
 Clarksville, Indiana 47129

Sheet  
**A-901**

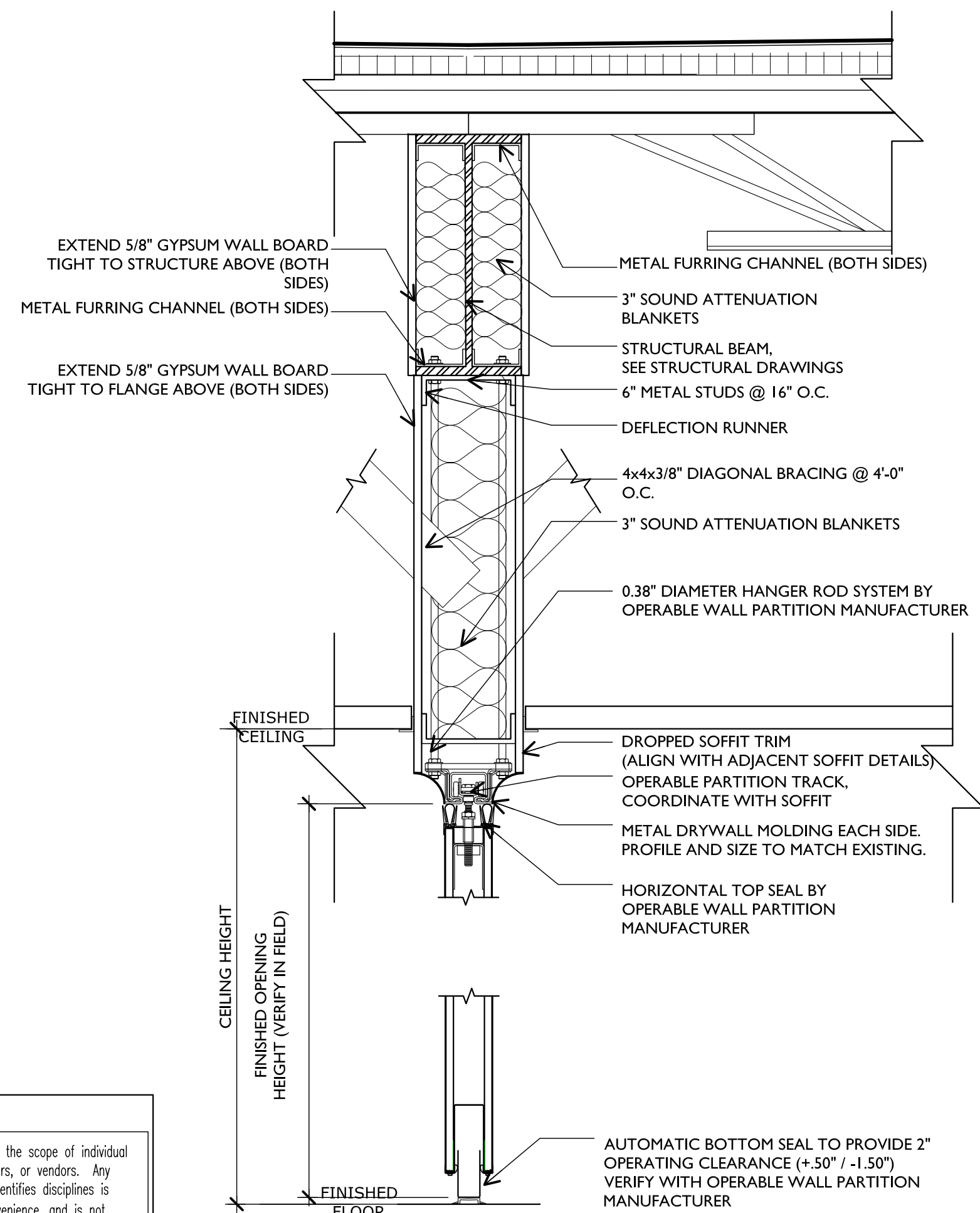


**PLAN VIEW**



**Panel Storage Closet Elevation**

3  
A-902 full size plot scale: 1/2"=1'-0"



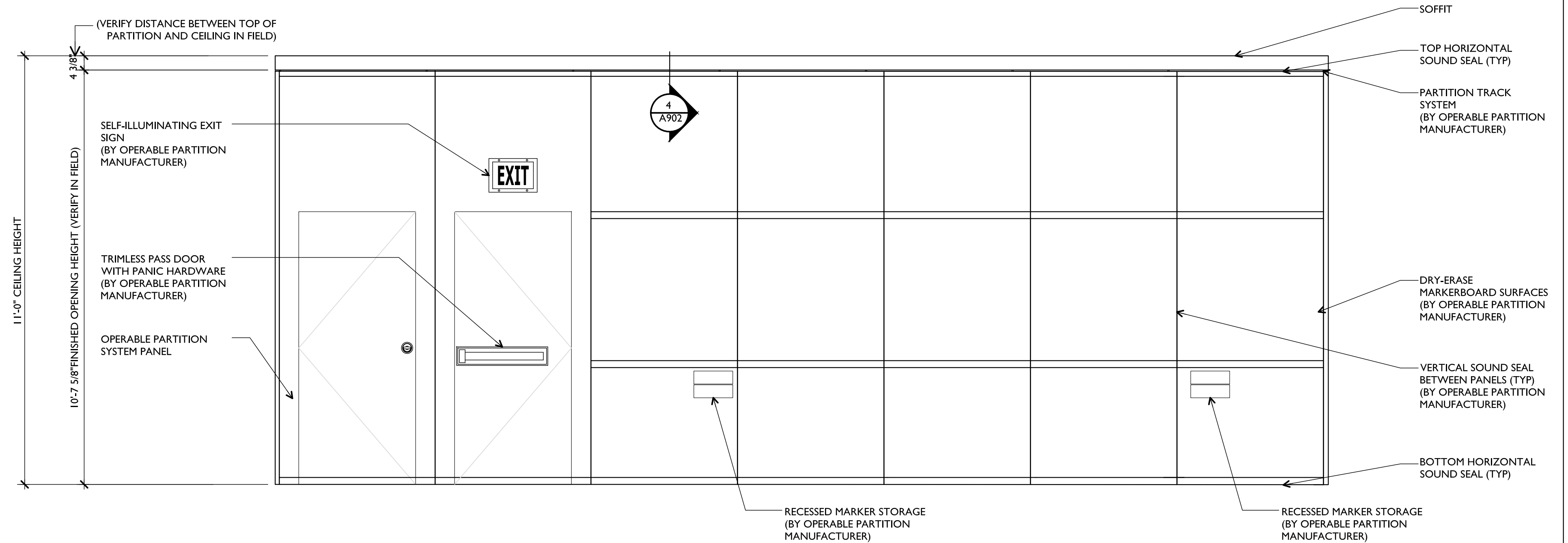
**Operable Partition Track Detail**

4  
A-902 full size plot scale: 1-1/2"=1'-0"

SEE NOTE #2

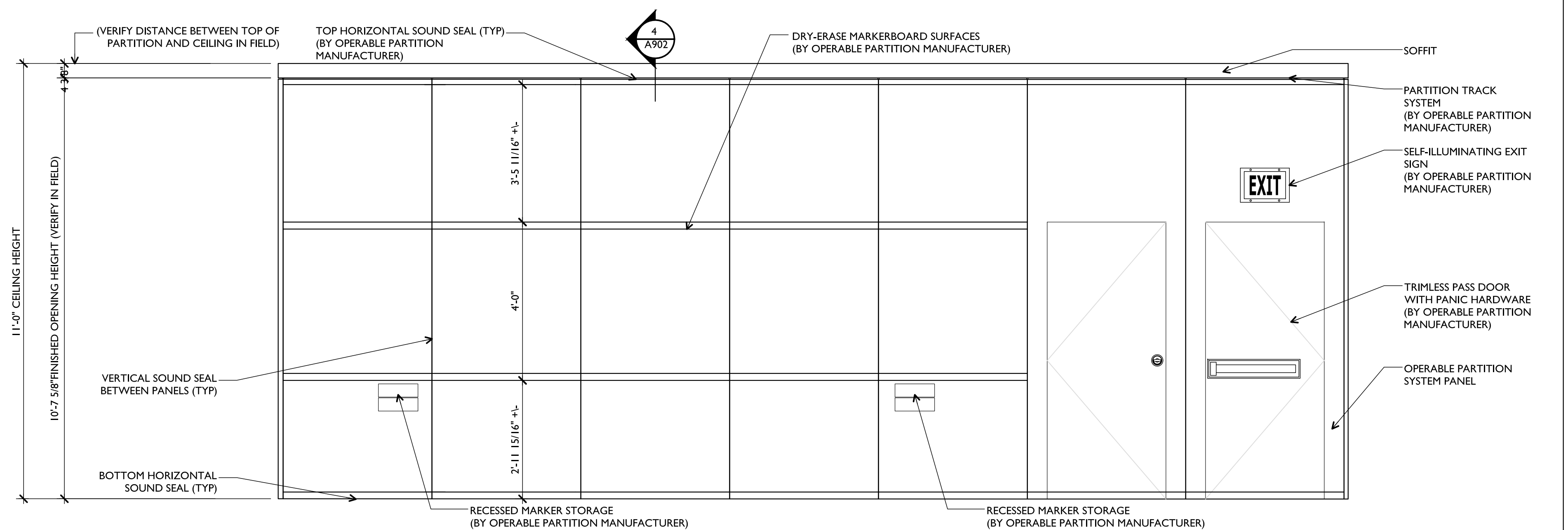
NOTES:

1. WALL CONSTRUCTION AT JAMBS MUST BE ADEQUATE FOR SECURING JAMBS AND/OR SUPPORT OF HINGED PANELS.
2. WALLS MUST BE FREE OF OBSTRUCTIONS TO PERMIT DOORS TO SWING 180°- TYP. BOTH DOORS
3. HINGE POINT IS SHOWN FOR DIAGRAMMATIC PURPOSE ONLY.
4. UTILIZE MANUFACTURER'S STANDARD SINGLE PANEL TRACK STACKING SYSTEM, VERIFY PANEL STORAGE CLOSET DIMENSIONS BEFORE CONSTRUCTION OF CLOSET.



**1 Panel Elevation**

A-902 full size plot scale: 1/2"=1'-0"



**2 Panel Elevation**

A-902 full size plot scale: 1/2"=1'-0"

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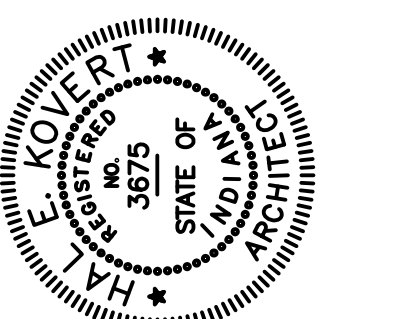


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Project No.	1723.02
Date	12/07/2017

Revisions

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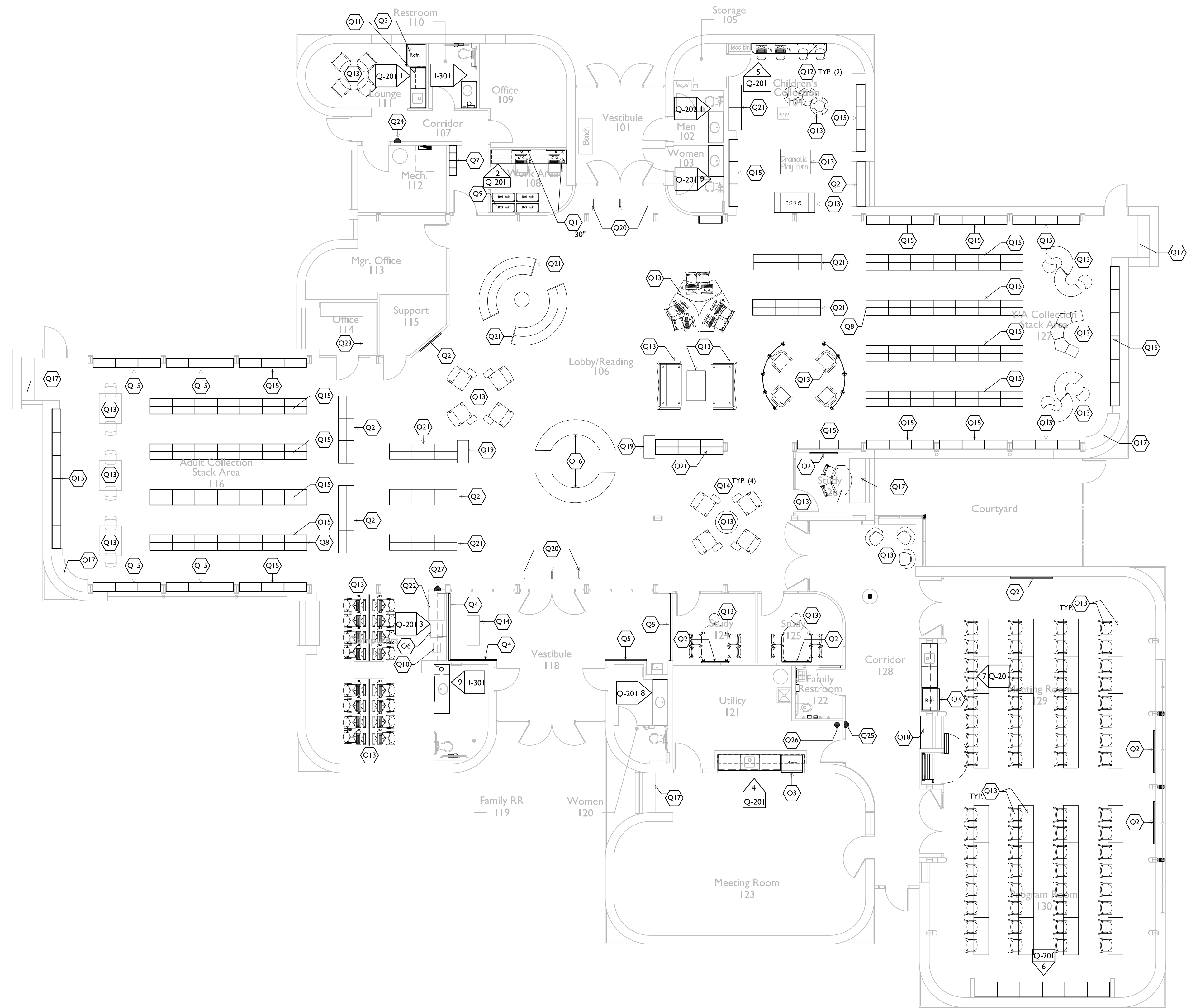
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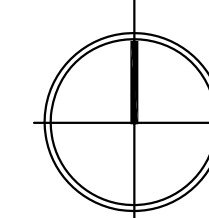


## Equipment Plan Keynotes

- Q1 VISUAL DISPLAY BOARD, TACKBOARD-  
18" HIGH UNIT SURFACE-MOUNTED TO WALL;  
NUMBER XX INDICATES LENGTH
- Q2 WALL-MOUNTED TELEVISION-  
O.F.C.I.  
COORDINATE EXACT LOCATION WITH ARCHITECT
- Q3 REFRIGERATOR-  
OWNER-FURNISHED, OWNER-INSTALLED (OFOI)
- Q4 EXISTING FABRIC-WRAPPED ART DISPLAY PANEL-  
RECOVER EXISTING PANELS WITH NEW TEXTILE  
WALLCOVERING;  
SEE FINISH PLAN; SEE SPECIFICATION SECTION 09722
- Q5 EXISTING RELOCATED FABRIC-WRAPPED ART DISPLAY PANEL-  
RECOVER EXISTING PANELS WITH NEW TEXTILE  
WALLCOVERING;  
SEE FINISH PLAN; SEE SPECIFICATION SECTION 09722
- Q6 FAX MACHINE-  
OWNER-FURNISHED, OWNER-INSTALLED
- Q7 LOCKERS-  
2-TIER, METAL LOCKERS
- Q8 SURFACE-MOUNTED TABLET-  
OWNER-FURNISHED, OWNER-INSTALLED
- Q9 BOOK TRUCKS-  
OWNER-FURNISHED, OWNER-INSTALLED
- Q10 CHANGE MACHINE-  
OWNER-FURNISHED, OWNER-INSTALLED
- Q11 MICROWAVE-  
OWNER-FURNISHED, OWNER-INSTALLED (OFOI)
- Q12 WALL-MOUNTED INTERACTIVE DISPLAY-  
OWNER-FURNISHED, OWNER-INSTALLED (OFOI)
- Q13 FREESTANDING FURNITURE-  
FURNISHED WITHIN CASH ALLOWANCE (FURNITURE)
- Q14 FREESTANDING FURNITURE-  
OWNER'S EXISTING FURNITURE
- Q15 EXISTING LIBRARY SHELVING-  
DISASSEMBLE, STORE AND REINSTALL IN EXISTING LOCATION  
FOLLOWING INSTALLATION OF NEW FINISHES
- Q16 CIRCULATION DESK-  
FURNISHED WITHIN CASH ALLOWANCE (SHELVING)
- Q17 EXISTING BUILT-IN BENCH & BACK CUSHION-  
REUPHOLSTER PER DETAIL ON A-901;  
SEE FINISH PLANS FOR UPHOLSTERY DETAILS
- Q18 NEW BUILT-IN BENCH & BACK CUSHION-  
UPHOLSTER PER DETAIL ON A-901;  
SEE FINISH PLANS FOR UPHOLSTERY DETAILS
- Q19 SELF-CHECK OUT STATION-  
OWNER-FURNISHED, OWNER-INSTALLED;  
COORDINATION AS REQUIRED WITH OWNER'S SEPARATE  
CONTRACTOR
- Q20 RADIO FREQUENCY IDENTIFICATION SECURITY SYSTEM  
(RFID)-  
COORDINATION AS REQUIRED WITH OWNER'S SEPARATE  
CONTRACTOR
- Q21 NEW LIBRARY SHELVING-  
FURNISHED WITHIN CASH ALLOWANCE (SHELVING)
- Q22 COPY MACHINE-  
OWNER-FURNISHED, OWNER-INSTALLED
- Q23 EXISTING MODULAR WALL-HUNG FURNITURE SYSTEM-  
REMOVE AND REINSTALL AS REQUIRED FOR NEW FINISHES
- Q24 EXISTING FIRE EXTINGUISHER-  
SEMI-RECESSED  
EXISTING TO REMAIN
- Q25 FIRE EXTINGUISHER-  
DRY CHEMICAL EXTINGUISHER;  
SEMI-RECESSED MOUNTED CABINET
- Q26 EXISTING FIRE EXTINGUISHER IN NEW LOCATION-  
DRY CHEMICAL EXTINGUISHER;  
WALL MOUNTED BRACKET
- Q27 EXISTING FIRE EXTINGUISHER IN NEW LOCATION-  
DRY CHEMICAL EXTINGUISHER;  
SEMI-RECESSED MOUNTED CABINET



North



### Equipment Plan

full size plot scale: 1/8"=1'-0"

0 4'-0" 8'-0"

### Notice

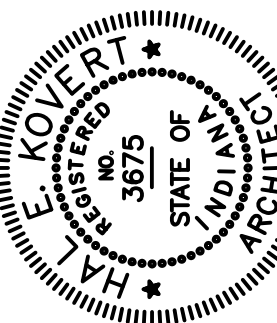
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architects

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Date: 12/07/2017

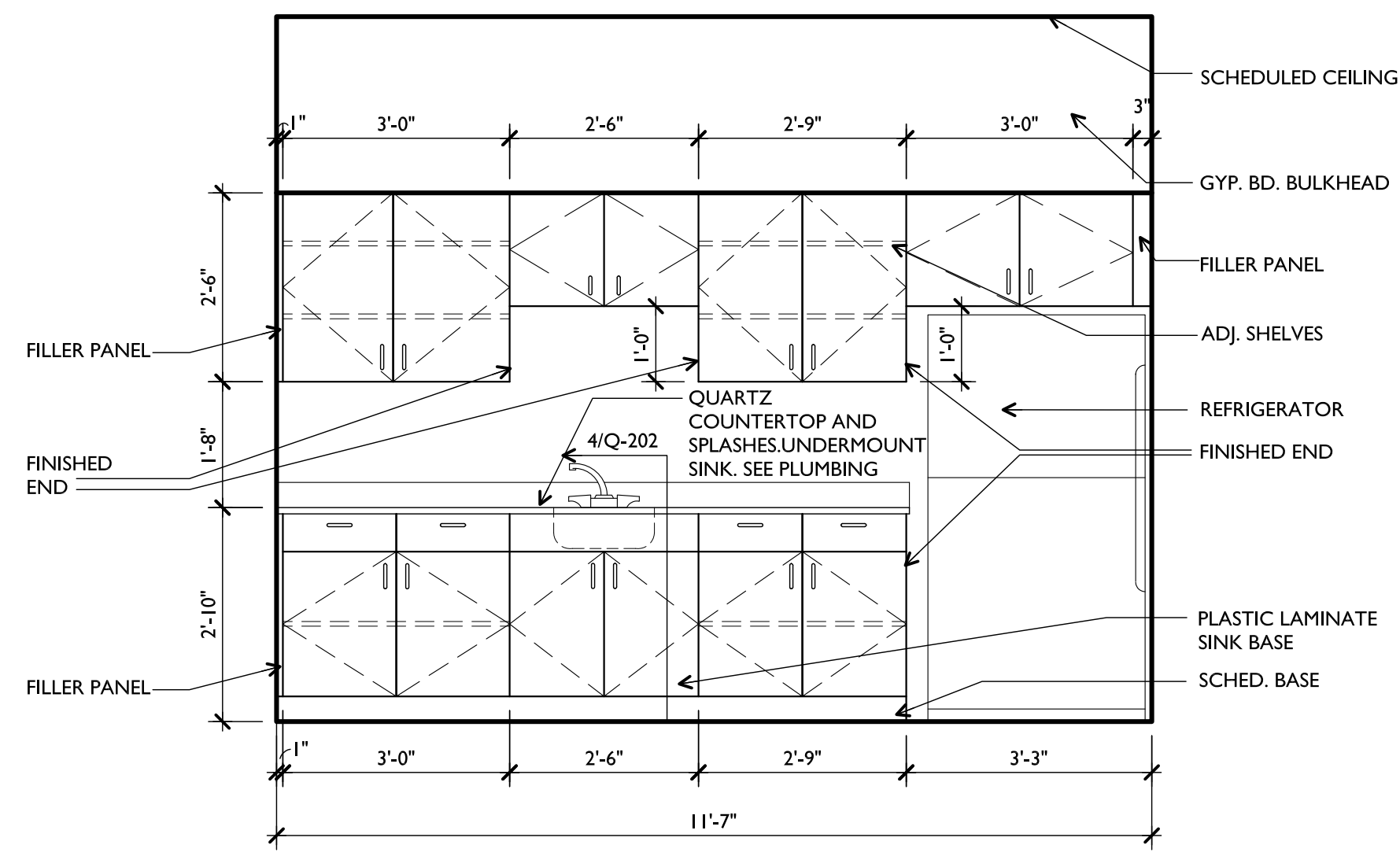
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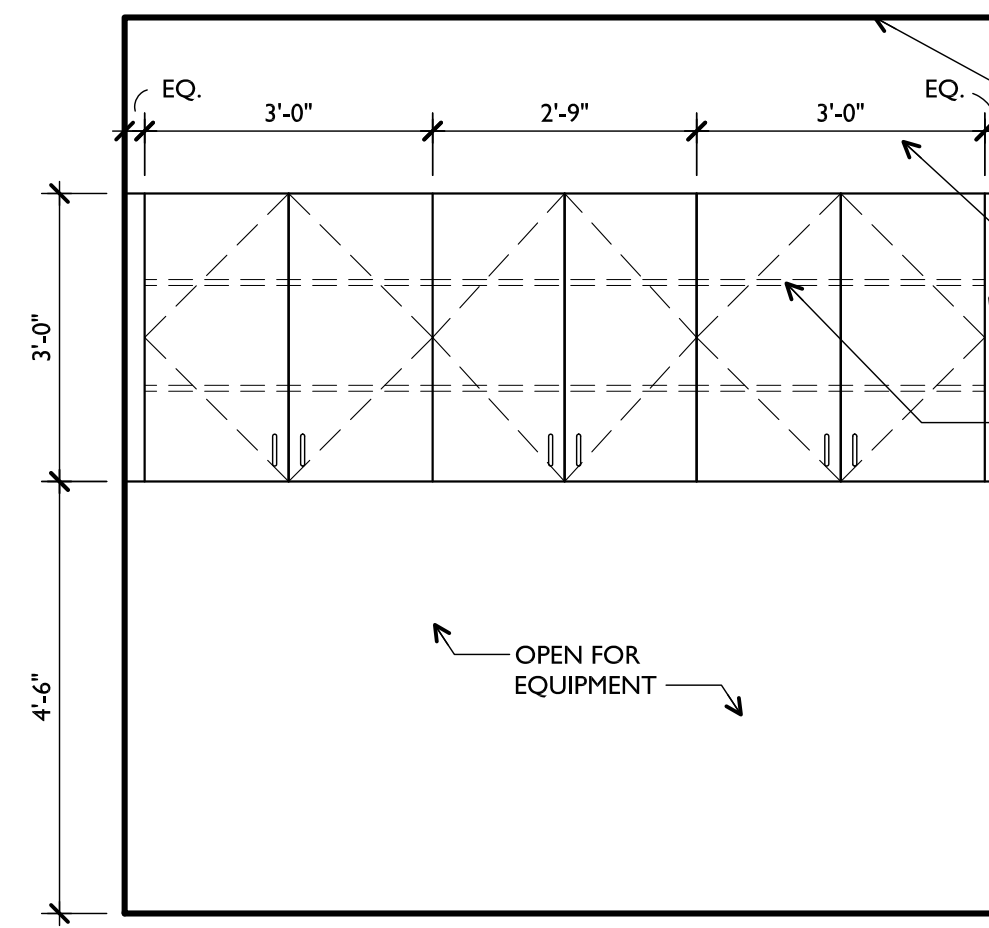
2018 Renovation & Addition  
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1312 Eastern Boulevard

Sheet

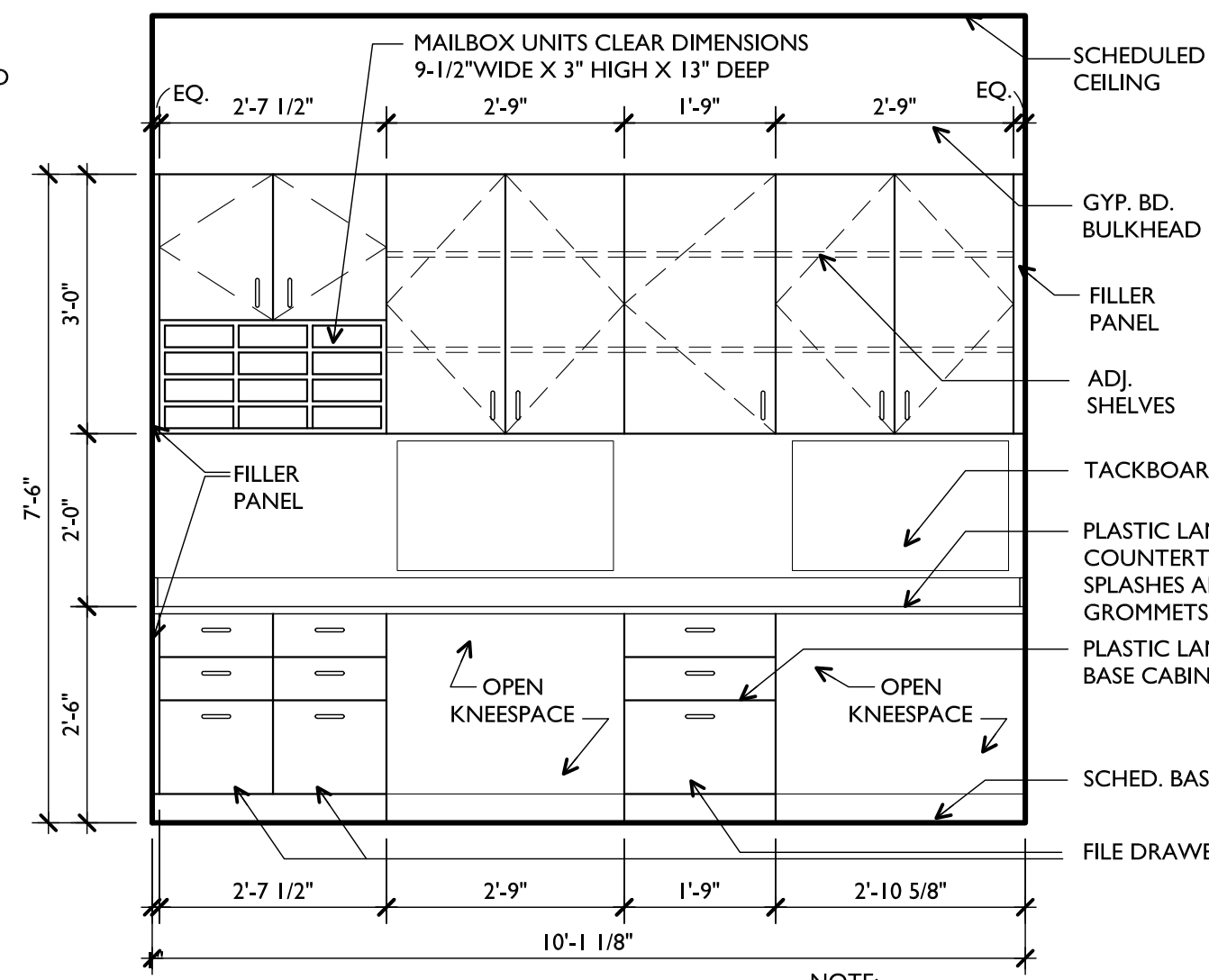
**Q-101**



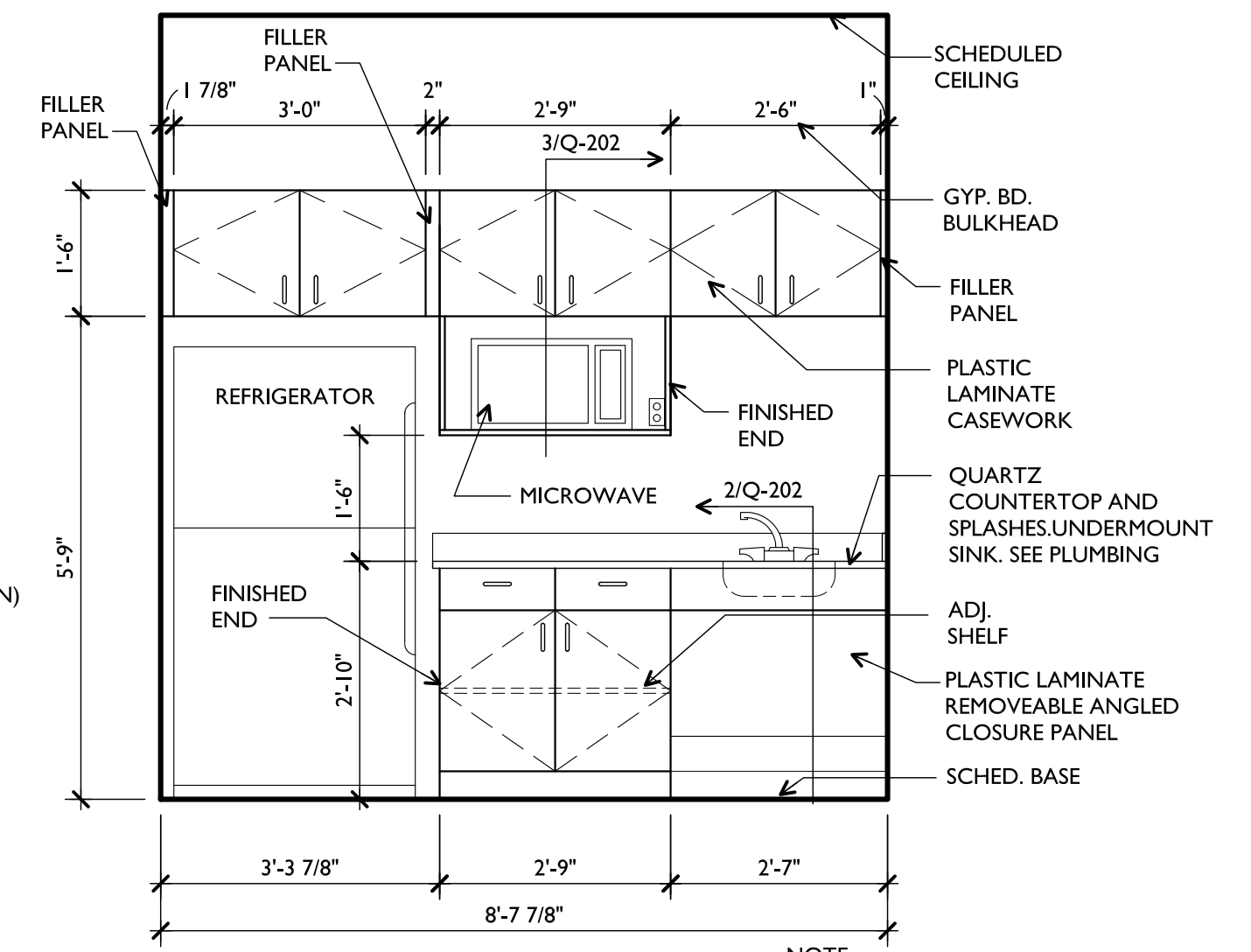
**4 Exist. Meeting Room**  
Q-201 full size plot scale: 1/2"=1'-0"



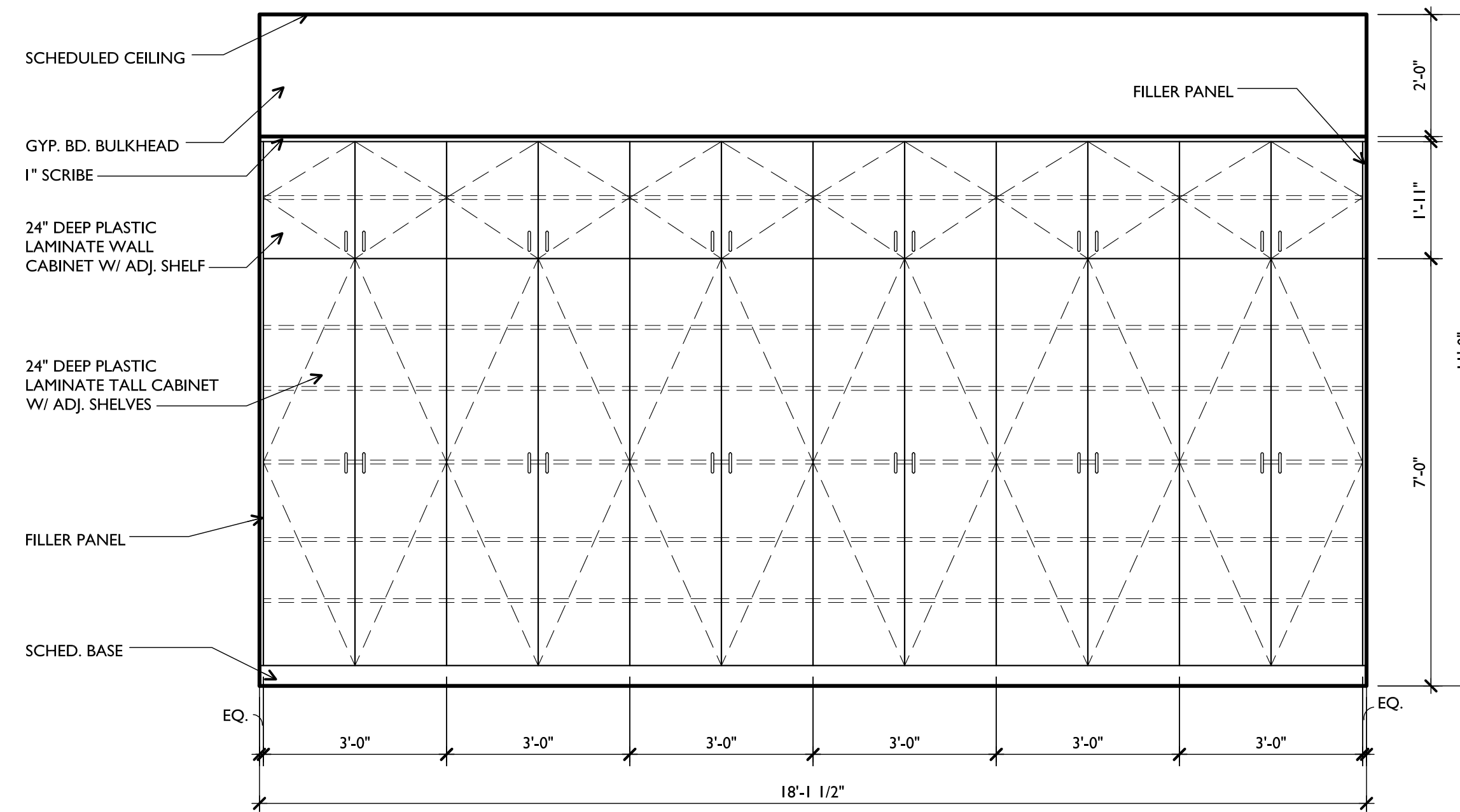
**3 Computer Area**  
Q-201 full size plot scale: 1/2"=1'-0"



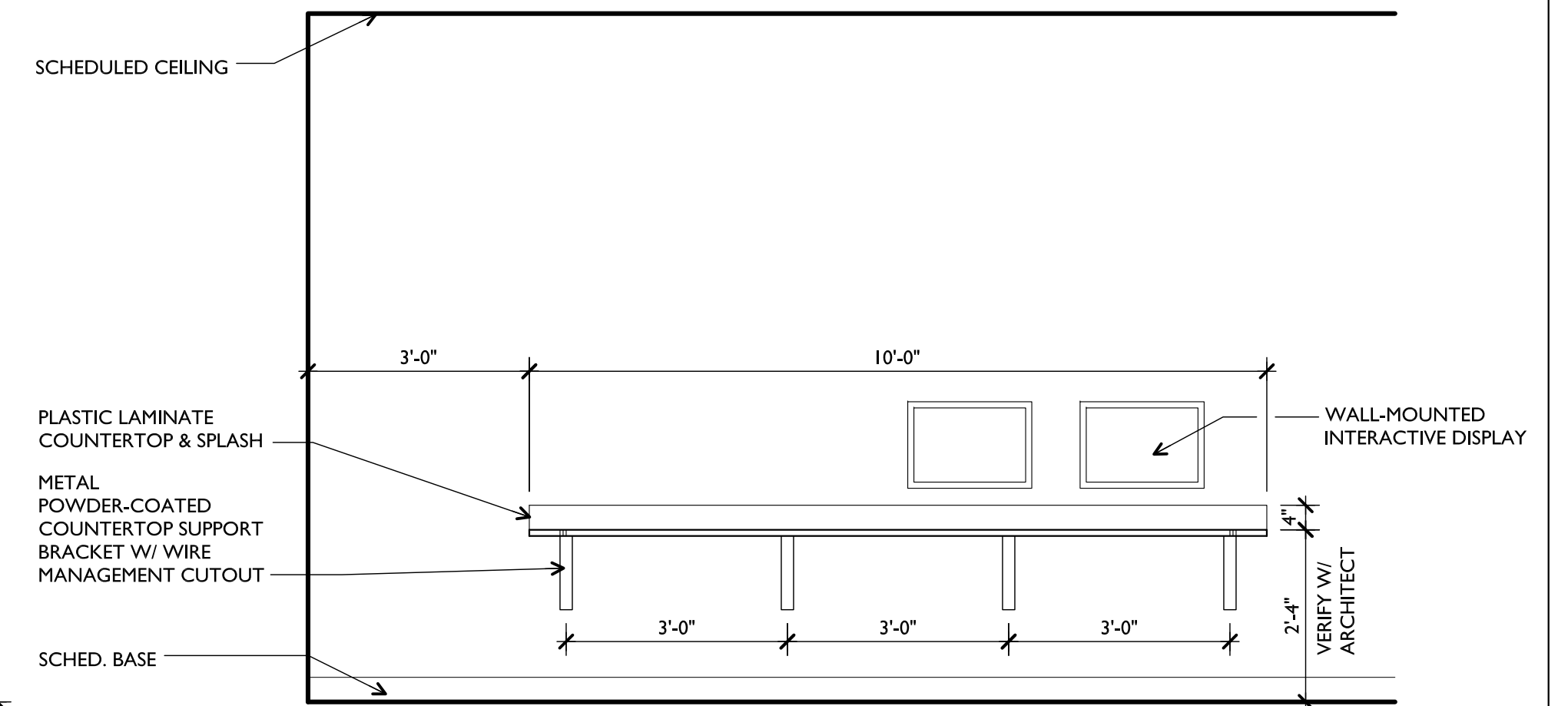
**2 Work Area**  
Q-201 full size plot scale: 1/2"=1'-0"



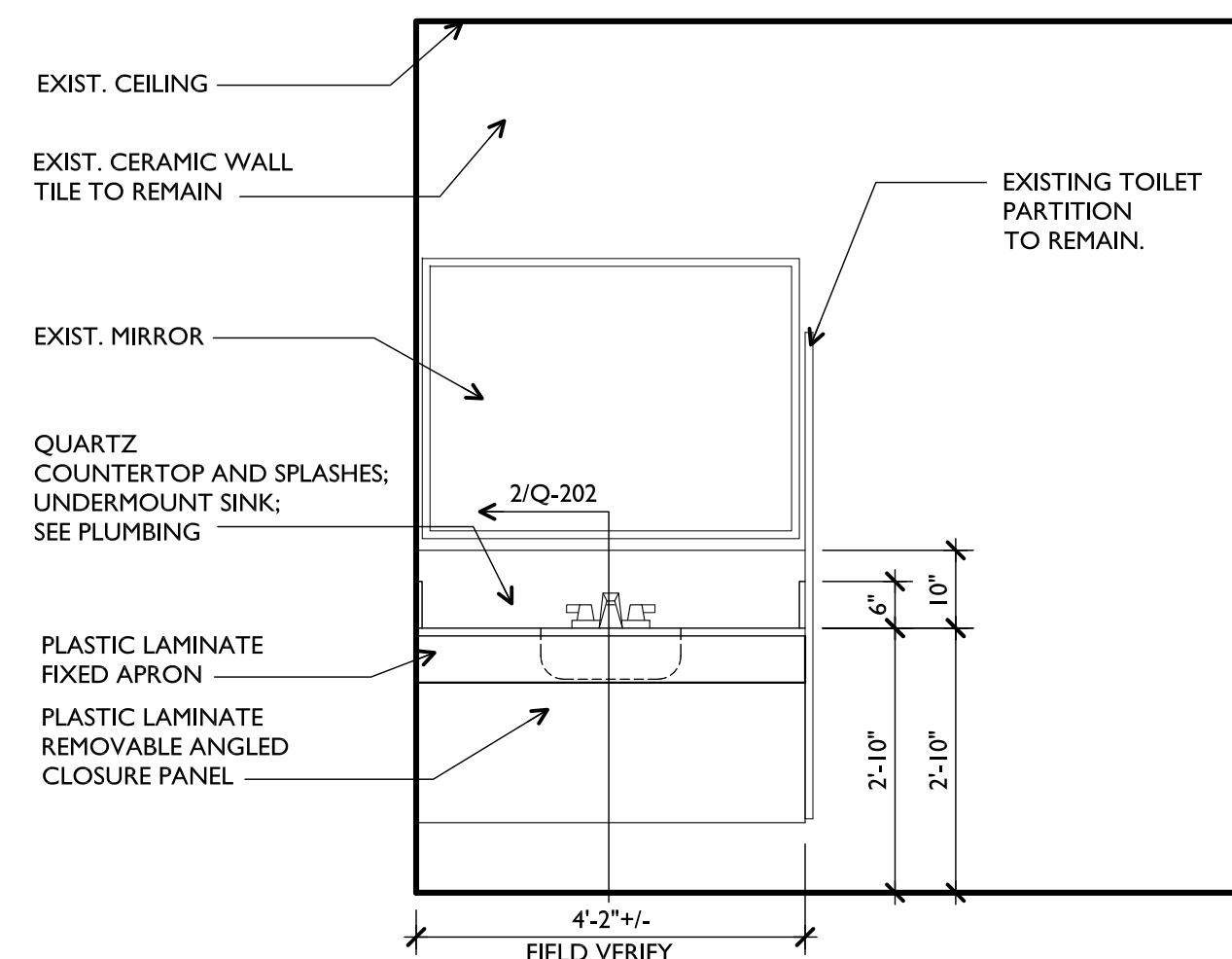
**1 Lounge Elevation**  
Q-201 full size plot scale: 1/2"=1'-0"



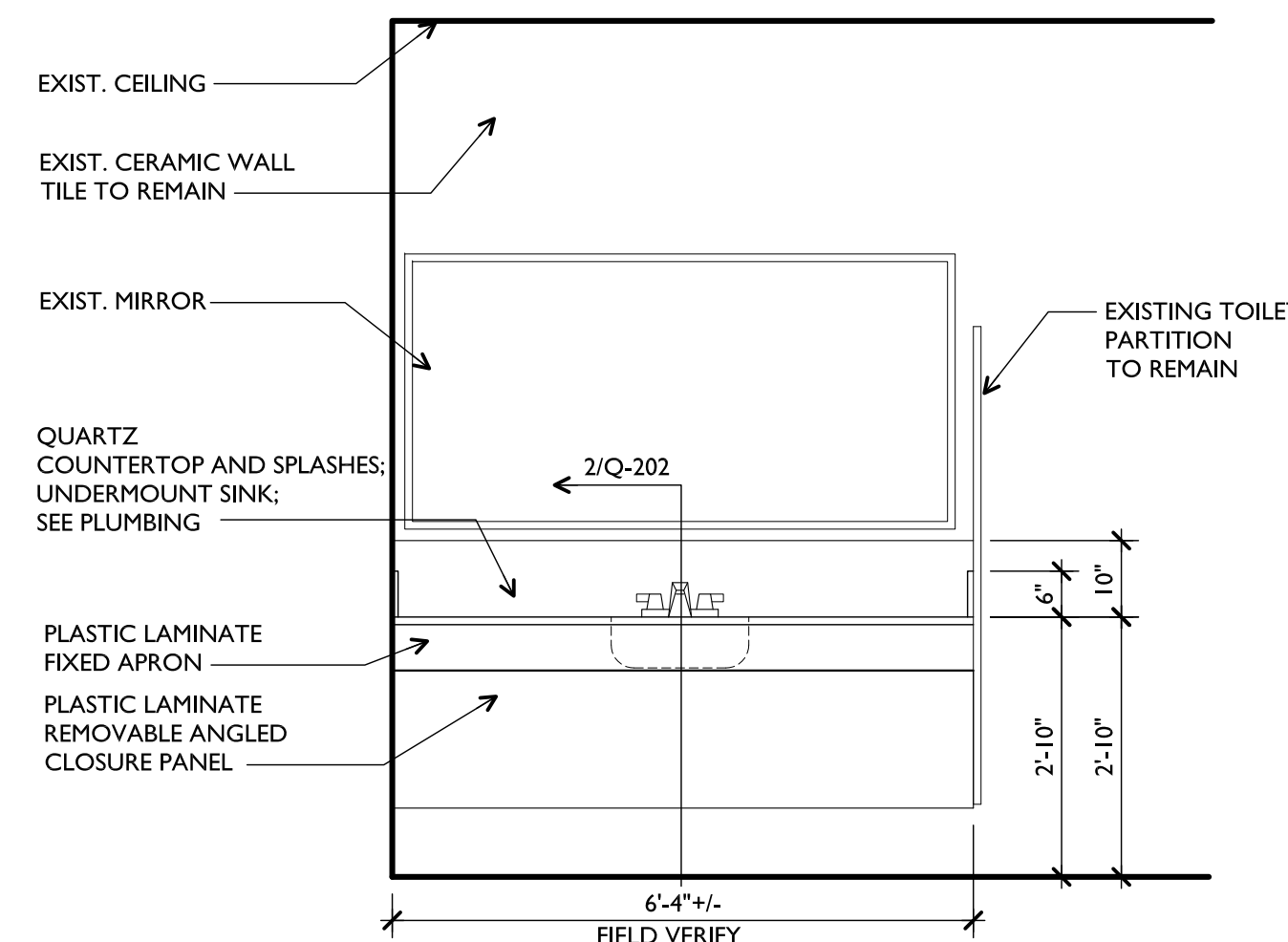
**6 Program Room**  
Q-201 full size plot scale: 1/2"=1'-0"



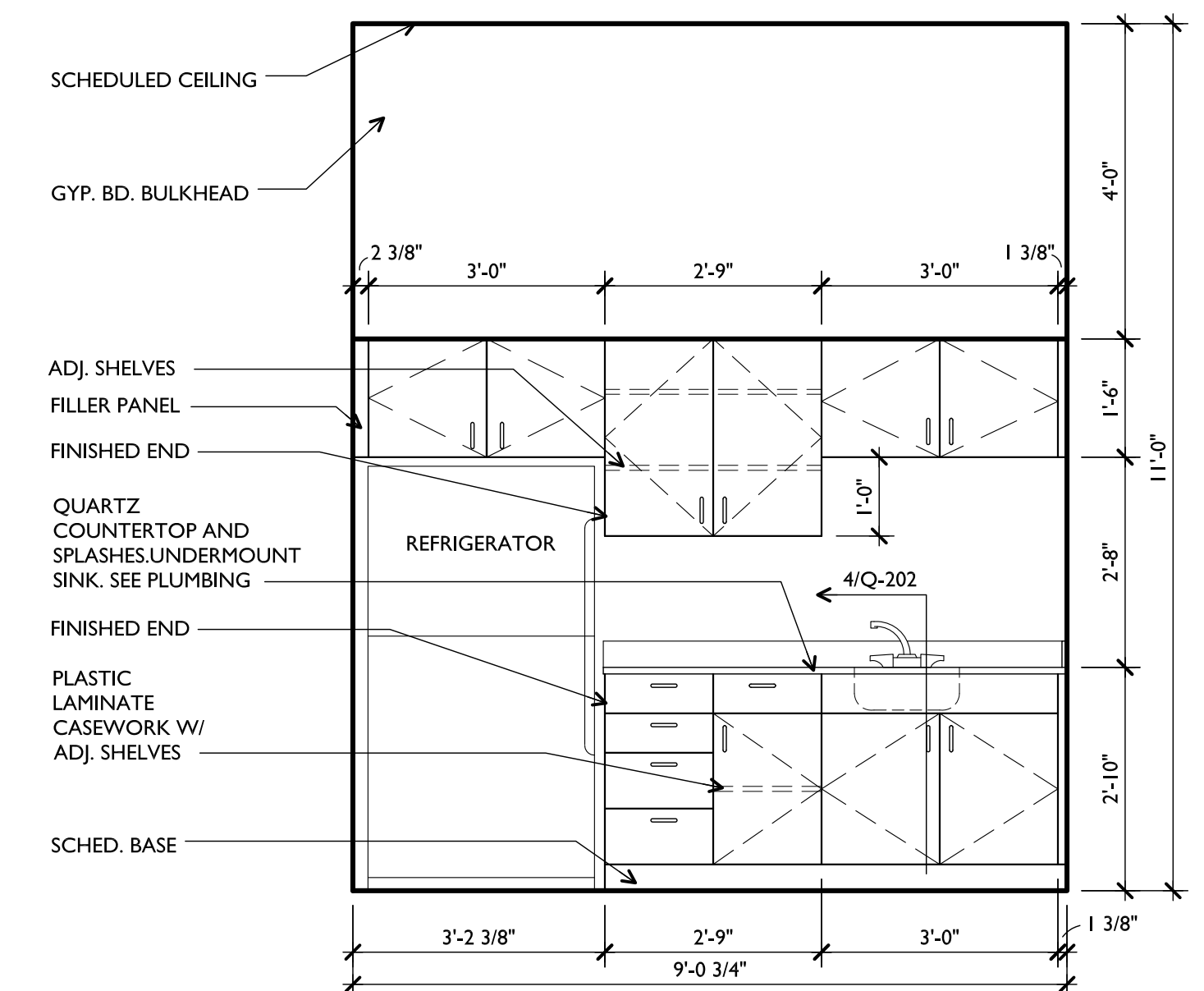
**5 Children's Computer Station Elevation**  
Q-201 full size plot scale: 1/2"=1'-0"



**9 Women I03**  
Q-201 full size plot scale: 1/2"=1'-0"



**8 Women A120**  
Q-201 full size plot scale: 1/2"=1'-0"



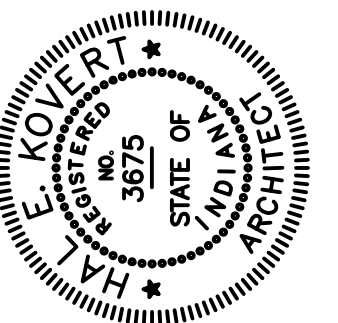
**7 Meeting Room**  
Q-201 full size plot scale: 1/2"=1'-0"

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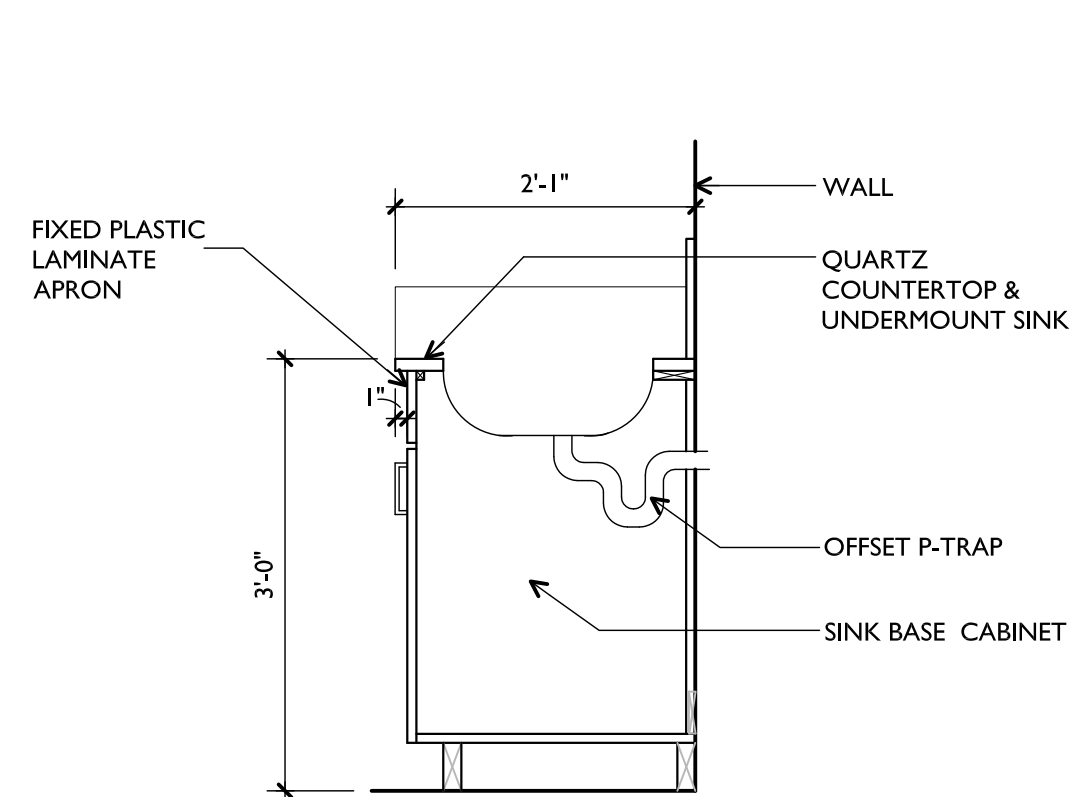


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Project No.	1723.02
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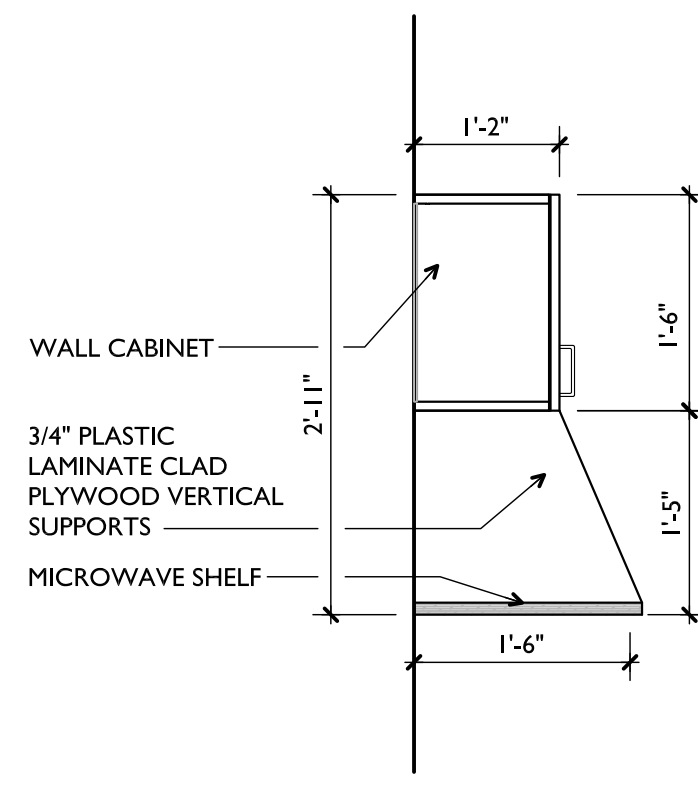
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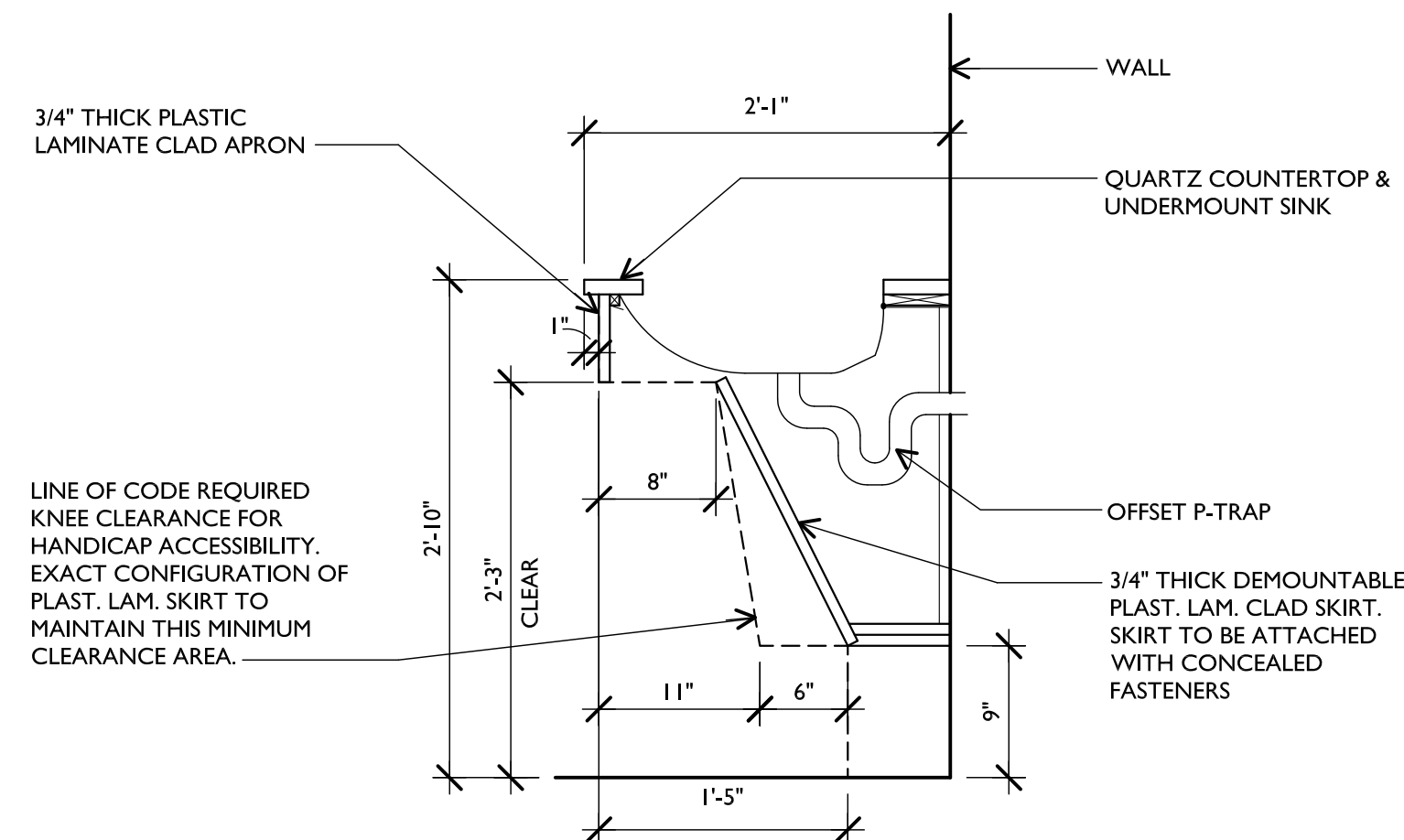




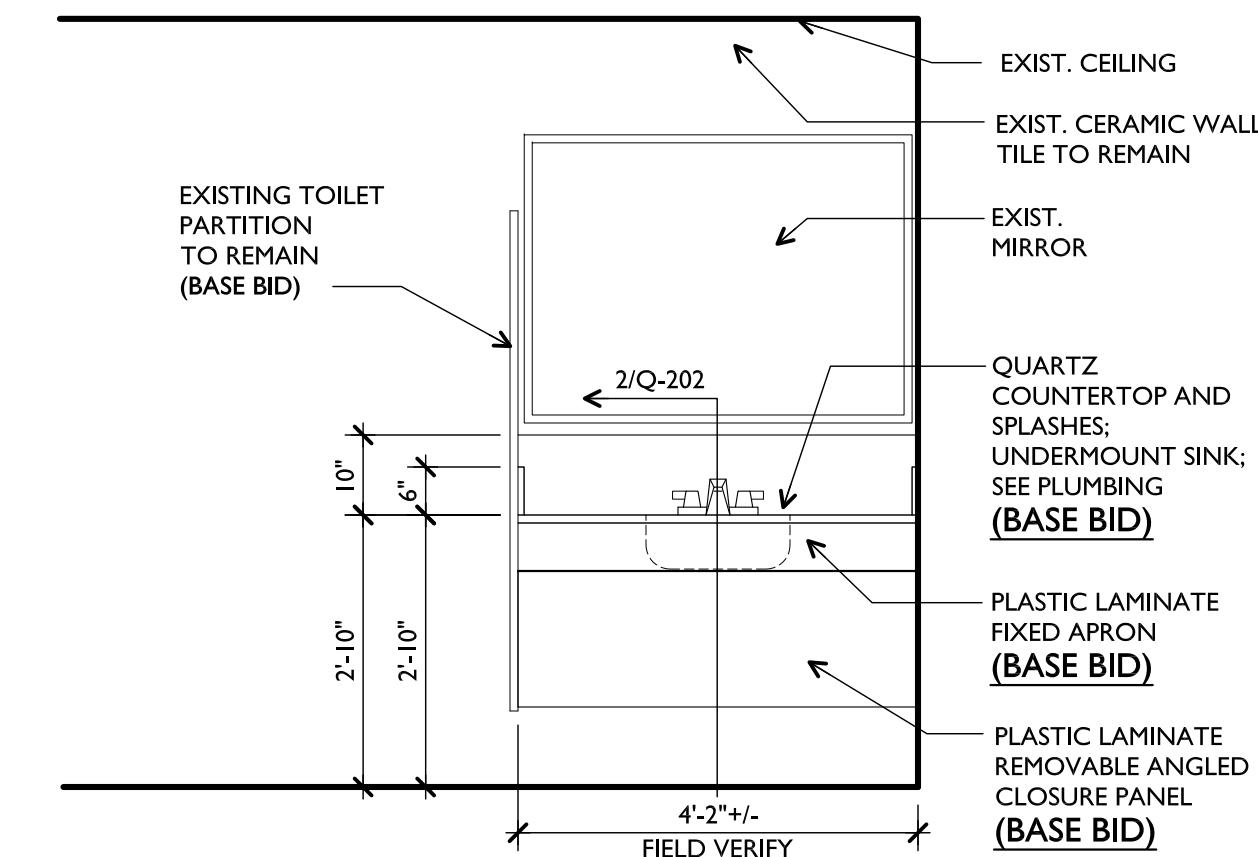
4 Sink Base Detail  
Q-202 full size plot scale: 3/4"=1'-0"



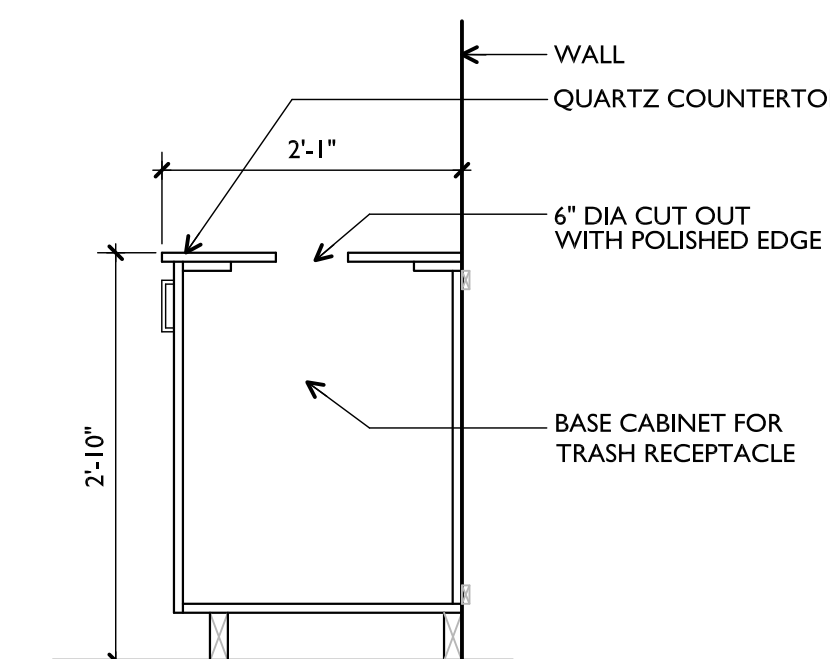
3 Microwave Shelf Detail  
Q-202 full size plot scale: 3/4"=1'-0"



2 Lavatory Detail  
Q-202 full size plot scale: 1"=1'-0"



1 Men 102 Elevation  
Q-202 full size plot scale: 1/2"=1'-0"



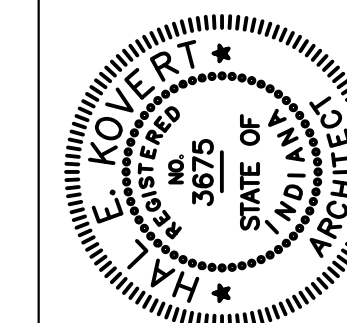
5 Trash Receptacle Cabinet Detail  
Q-202 full size plot scale: 3/4"=1'-0"

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Revisions	1
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# FINISH SCHEDULE

## Flooring

- C1** MODULAR CARPET TILE--  
"SHAW CONTRACT" MODULAR CARPET TILE  
24.9"H x 28.8"DIA. x 14.4" SIDE  
PATTERN-- BEVEL HEXAGON TILE ST057  
COLOR-- TWEED 55530  
INSTALLATION METHOD-- RANDOM  
SEE 1-200 SHEETS FOR PATTERN
- C2** MODULAR CARPET TILE--  
"SHAW CONTRACT" MODULAR CARPET TILE  
24.9"H x 28.8"DIA. x 14.4" SIDE  
PATTERN/COLOR 1--BEVEL HEXAGON 5T057/  
PEWTER 55518  
PATTERN/COLOR 2--BASE HEXAGON 5T159/  
CONNECT 59581  
PATTERN/COLOR 3--BASE HEXAGON 5T159/  
PROGRESSION 59580  
PATTERN/COLOR 4--CONTACT HEXAGON 5T160/  
BRILLIANT PROPORTION 59518  
PATTERN/COLOR 5--CONTACT HEXAGON 5T160/  
SUBLIME SHIFT 59104  
PATTERN/COLOR 6--CONTACT HEXAGON 5T160/  
AERIAL PROGRESSION 59580  
INSTALLATION METHOD-- RANDOM  
SEE 1-200 SHEETS FOR PATTERN
- C3** MODULAR CARPET TILE--  
"SHAW CONTRACT" MODULAR CARPET TILE  
24.9"H x 28.8"DIA. x 14.4" SIDE  
PATTERN-- COLOR SHIFT HEXAGON 5T161  
COLOR-- SUBLIME 59325  
INSTALLATION METHOD--RANDOM
- C4** MODULAR CARPET TILE--  
"SHAW CONTRACT" MODULAR CARPET TILE  
24.9"H x 28.8"DIA. x 14.4" SIDE  
PATTERN-- COLOR SHIFT HEXAGON 5T161  
COLOR-- BRILLIANT 59991  
INSTALLATION METHOD--RANDOM
- C5** MODULAR CARPET TILE--  
"SHAW CONTRACT" MODULAR CARPET TILE  
24.9"H x 28.8"DIA. x 14.4" SIDE  
PATTERN-- AERIAL SHIFT HEXAGON 5T161  
COLOR-- AERIAL 59327  
INSTALLATION METHOD--RANDOM
- C6** MODULAR CARPET TILE--  
"INTERFACE" MODULAR CARPET TILE  
50CM X 50CM  
PATTERN/COLOR 1--STONE COURSE/GREYSTONE  
1286302500-105569  
PATTERN/COLOR 2--SETT IN STONE/SLATE  
1286202500-105565  
PATTERN/COLOR 3--MOSS IN STONE/ SLATE EDGE  
1286102500-105561  
INSTALLATION METHOD-- NON-DIRECTIONAL  
SEE 1-200 SHEETS FOR PATTERN
- V1** LUXURY VINYL TILE--  
"INTERFACE" MODULAR RESILIENT FLOORING  
50CM X 50 CM  
PATTERN -- TEXTURED STONES  
COLOR -- EMPERADOR GRAY A00304  
INSTALLATION METHOD--QUARTER--TURN
- V2** VINYL COMPOSITION TILE--  
"ARMSTRONG" STANDARD EXCELON IMPERIAL TEXTURE;  
12"x12"; COLOR TO BE SELECTED BY ARCHITECT
- PT** GLAZED PORCELAIN TILE--  
"EMSER" TERRANE 12"x24"  
COLOR-- IVORY  
GROUT COLOR TO BE SELECTED BY ARCHITECT  
INSTALL--STACKED BOND
- EF** EXISTING FLOOR --  
NO FINISH WORK REQUIRED UNLESS OTHERWISE NOTED
- ET** EXISTING TERRAZZO --  
NO FINISH WORK REQUIRED UNLESS OTHERWISE NOTED
- TZ** EPOXY TERRAZZO --  
COLOR TO MATCH EXISTING  
SEE SPECIFICATION 09575

## Base

- B1** 4-1/2" RUBBER COVE BASE--  
"FLEXCO" BASE 2000;  
COLOR-- 014 MEDIUM GRAY
- B2** GLAZED PORCELAIN TILE BASE--  
"EMSER", TERRANE  
6"x24" (CUT DOWN 12"x24" TILE FOR SIZE)  
COLOR-- IVORY
- B3** NO BASE--  
WALL TILE EXTENDS TO FINISHED FLOOR;  
NO SEPARATE WALL BASE REQUIRED
- EB** EXISTING TO REMAIN--  
NO FINISH WORK REQUIRED UNLESS NOTED OTHERWISE

## Walls

- P1** PAINT--  
"SHERWIN WILLIAMS"  
COLOR-- NEBULOUS WHITE SW7063
- P2** PAINT--  
"SHERWIN WILLIAMS"  
COLOR-- GRAY CLOUDS SW7658
- P3** PAINT--  
"SHERWIN WILLIAMS"  
COLOR-- RAINDROP SW6485
- PA** PAINT--  
"SHERWIN WILLIAMS"  
COLOR-- PEACOCK PLUME SW0020
- PS** PAINT--  
"SHERWIN WILLIAMS"  
COLOR -- GLEEFUL SW6709
- PA** PAINT--  
"SHERWIN WILLIAMS"  
COLOR -- AQUARIUM SW6767
- PA** PAINT--  
"SHERWIN WILLIAMS"  
COLOR 1 -- MATURE GRAPE SW6286  
COLOR 2 -- DEMURE SW6295  
COLOR 3 -- FRAMBOISE SW6566  
COLOR 4 -- EXUBERANT PINK SW6840  
SEE ELEVATION ON I-302
- PA** PAINT--  
"SHERWIN WILLIAMS"  
COLOR 1 -- OCEANSIDE SW6496  
COLOR 2 -- ATMOSPHERIC SW6505  
COLOR 3 -- GREAT FALLS SW6495  
COLOR 4 -- AQUARIUM SW6767  
SEE ELEVATION ON I-302
- PA** PAINT--  
"SHERWIN WILLIAMS"  
COLOR 1 -- TAILPOT PALM SW6726  
COLOR 2 -- LIME GRANITA SW6715  
COLOR 3 -- OVERT GREEN SW6718  
COLOR 4 -- LIMON FRESCO SW9030  
SEE ELEVATION ON I-302
- PA** PAINT--  
"SHERWIN WILLIAMS"  
COLOR 1 -- AQUARIUM SW6767  
COLOR 2 -- EXUBERANT PINK SW6840  
COLOR 3 -- GLEEFUL SW6709  
COLOR 4 -- GRAY CLOUD SW7658  
COLOR 5 -- OCEANSIDE SW6496  
COLOR 6 -- NEBULOUS WHITE SW7063  
SEE ELEVATION ON I-302
- PA** PAINT--  
"SHERWIN WILLIAMS"  
COLOR 1 --OCEANSIDE SW6496  
COLOR 2 --CALYPSO SW6950  
COLOR 3 --ATMOSPHERIC SW6505  
COLOR 4 --NEBULOUS WHITE SW7063  
SEE ELEVATION ON I-301
- WT** TEXTILE WALLCOVERING--  
"KOROSEAL" INSPIRATIONS  
PATTERN-- NIGHTLIFE  
COLOR-- MILAN 137-07  
SEE DEMOLITION & EQUIPMENT PLANS  
SEE SPECIFICATION SECTION 09722
- WA** EXISTING WALL FINISH--  
NO FINISH WORK REQUIRED UNLESS OTHERWISE NOTED

## Ceilings

- AC1** ACOUSTICAL CEILING--  
TYPE "A"  
SEE SPECIFICATION SECTION 09510
- AC2** ACOUSTICAL --  
TYPE "B"  
SEE SPECIFICATION SECTION 09510
- GB1** GYP. BOARD CEILING--  
FINISH PAINT, ALL EXPOSED SURFACES;  
"SHERWIN WILLIAMS"  
COLOR-- SW6485 RAINDROP
- GB2** GYP. BOARD CEILING--  
FINISH PAINT, ALL EXPOSED SURFACES;  
"SHERWIN WILLIAMS"  
COLOR-- CEILING WHITE
- GS** GYP. BOARD SOFFIT--  
FINISH PAINT, ALL EXPOSED SURFACES;  
"SHERWIN WILLIAMS"  
COLOR-- SW7658 GRAY CLOUDS
- GS2** GYP. BOARD SOFFIT--  
FINISH PAINT, ALL EXPOSED SURFACES;  
"SHERWIN WILLIAMS"  
COLOR TO BE SELECTED BY ARCHITECT
- CX** EXISTING CEILING--  
NO FINISH WORK REQUIRED UNLESS NOTED.

## Specialties

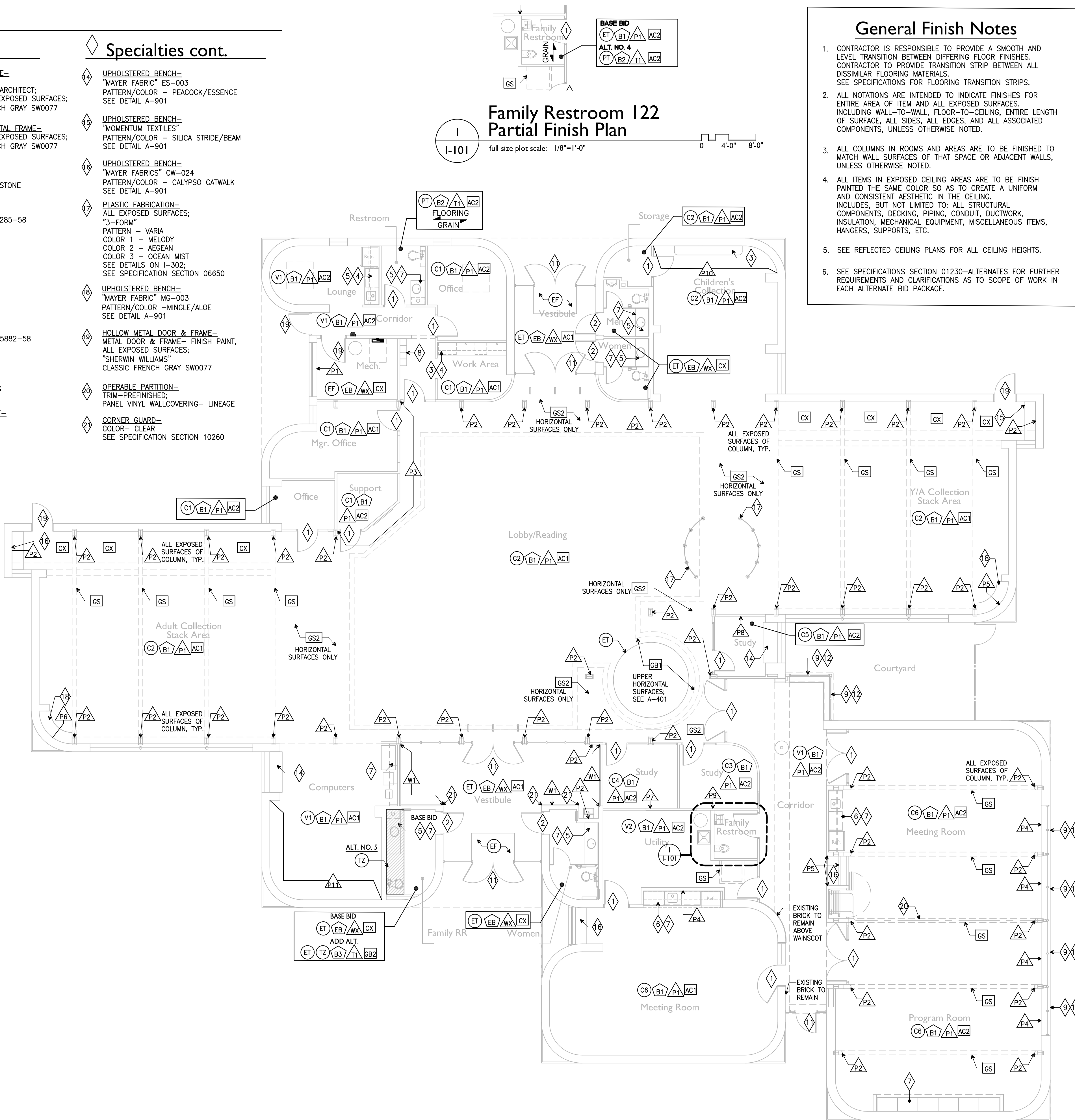
- D** WOOD DOOR / HOLLOW METAL FRAME--  
WOOD SPECIES -- RED OAK;  
STAIN COLOR TO BE SELECTED BY ARCHITECT;  
METAL FRAME-- FINISH PAINT, ALL EXPOSED SURFACES;  
"SHERWIN WILLIAMS" CLASSIC FRENCH GRAY SW0077
- D** EXISTING WOOD DOOR / HOLLOW METAL FRAME--  
METAL FRAME-- FINISH PAINT, ALL EXPOSED SURFACES;  
"SHERWIN WILLIAMS" CLASSIC FRENCH GRAY SW0077
- D** PLASTIC LAMINATE COUNTERTOP--  
ALL EXPOSED SURFACES;  
"WILSONART" COLOR -- PEARL SOAPSTONE  
4888-38
- D** PLASTIC LAMINATE CASEWORK--  
ALL EXPOSED SURFACES;  
"FORMICA" COLOR -- WHITE TWILL 9285-58
- D** QUARTZ COUNTERTOP--  
ALL EXPOSED SURFACES;  
"CAMBRIA"  
COLOR -- SNOWDEN WHITE
- D** QUARTZ COUNTERTOP--  
ALL EXPOSED SURFACES;  
"LG" VIATARA  
COLOR -- CASTLE
- D** PLASTIC LAMINATE CASEWORK--  
ALL EXPOSED SURFACES;  
"FORMICA" COLOR -- CITADEL WARP 5882-58
- D** METAL LOCKERS--  
PRE-FINISHED
- D** DUAL WINDOW SHADES--  
SEE WINDOW ELEVATIONS FOR SIZES;  
SEE SPECIFICATION SECTION 12502
- D** ALUMINUM STOREFRONT WINDOW UNIT--  
PRE-FINISHED
- D** ALUMINUM STOREFRONT--  
PRE-FINISHED
- D** SOLID SURFACE WINDOW SILL--  
"LIVING STONE"  
COLOR-- L721 AVALANCE  
SEE WINDOW ELEVATIONS
- D** DUAL ROLLER WINDOW SHADES--  
SEE WINDOW ELEVATIONS SIZES;  
SEE SPECIFICATION SECTION 12502

## Specialties cont.

- D** UPHOLSTERED BENCH--  
"MAYER FABRIC" ES-003  
PATTERN/COLOR -- PEACOCK/ESSENCE  
SEE DETAIL A-901
- D** UPHOLSTERED BENCH--  
"MOMENTUM TEXTILES"  
PATTERN/COLOR -- SILICA STRIDE/BEAM  
SEE DETAIL A-901
- D** UPHOLSTERED BENCH--  
"MAYER FABRICS" CW-024  
PATTERN/COLOR -- CALYPSO CATWALK  
SEE DETAIL A-901
- D** PLASTIC FABRICATION--  
ALL EXPOSED SURFACES;  
"3-FORM"  
PATTERN -- VARIA  
COLOR 1 -- MELODY  
COLOR 2 -- AEGEAN  
COLOR 3 -- OCEAN MIST  
SEE DETAILS ON I-302;  
SEE SPECIFICATION SECTION 06650
- D** UPHOLSTERED BENCH--  
"MAYER FABRIC" MG-003  
PATTERN/COLOR -- MINGLE/ALOE  
SEE DETAIL A-901
- D** HOLLOW METAL DOOR & FRAME--  
METAL DOOR & FRAME-- FINISH PAINT,  
ALL EXPOSED SURFACES;  
"SHERWIN WILLIAMS"  
CLASSIC FRENCH GRAY SW0077
- D** OPERABLE PARTITION--  
TRIM--PREFINISHED;  
PANEL VINYL WALLCOVERING-- LINEAGE
- D** CORNER GUARD--  
COLOR-- CLEAR  
SEE SPECIFICATION SECTION 10260

### Family Restroom 122 Partial Finish Plan

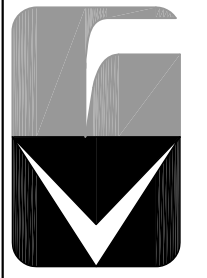
full size plot scale: 1/8"=1'-0"



- ### General Finish Notes
- CONTRACTOR IS RESPONSIBLE TO PROVIDE A SMOOTH AND LEVEL TRANSITION BETWEEN DIFFERING FLOOR FINISHES. CONTRACTOR TO PROVIDE TRANSITION STRIP BETWEEN ALL DISSIMILAR FLOORING MATERIALS. SEE SPECIFICATIONS FOR FLOORING TRANSITION STRIPS.
  - ALL NOTATIONS ARE INTENDED TO INDICATE FINISHES FOR ENTIRE AREA OF ITEM AND ALL EXPOSED SURFACES. INCLUDING WALL-TO-WALL, FLOOR-TO-CEILING, ENTIRE LENGTH OF SURFACE, ALL SIDES, ALL EDGES, AND ALL ASSOCIATED COMPONENTS, UNLESS OTHERWISE NOTED.
  - ALL COLUMNS IN ROOMS AND AREAS ARE TO BE FINISHED TO MATCH WALL SURFACES OF THAT SPACE OR ADJACENT WALLS, UNLESS OTHERWISE NOTED.
  - ALL ITEMS IN EXPOSED CEILING AREAS ARE TO BE FINISH PAINTED THE SAME COLOR SO AS TO CREATE A UNIFORM AND CONSISTENT AESTHETIC IN THE CEILING. INCLUDES, BUT NOT LIMITED TO: ALL STRUCTURAL COMPONENTS, DECKING, PIPING, CONDUIT, DUCTWORK, INSULATION, MECHANICAL EQUIPMENT, MISCELLANEOUS ITEMS, HANGERS, SUPPORTS, ETC.
  - SEE REFLECTED CEILING PLANS FOR ALL CEILING HEIGHTS.
  - SEE SPECIFICATIONS SECTION 01230--ALTERNATES FOR FURTHER REQUIREMENTS AND CLARIFICATIONS AS TO SCOPE OF WORK IN EACH ALTERNATE BID PACKAGE.

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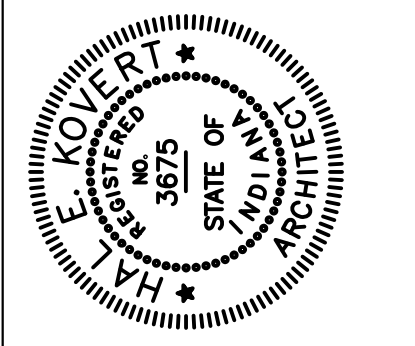


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Drawn: AH/BAB  
Checked By: HK  
Project No.: 1723.02  
Date: 12/07/2017

Revisions:  
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2018 Renovation & Addition  
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Sheet  
**I-101**

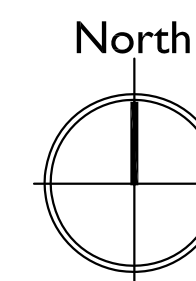


### Hexagon Carpet Tile Pattern Legend

-  C2, COLOR 1
-  C2, COLOR 2
-  C2, COLOR 3
-  C2, COLOR 4
-  C2, COLOR 5
-  C2, COLOR 6
-  C2, COLOR 7
-  C3
-  C4
-  C5

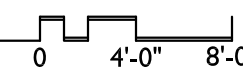
### Square Carpet Tile Pattern Legend

-  C6, COLOR 1
-  C6, COLOR 2
-  C6, COLOR 3
-  C6, COLOR 4



**Floor Pattern Plan**

full size plot scale: 1/8"=1'-0"



#### Notice

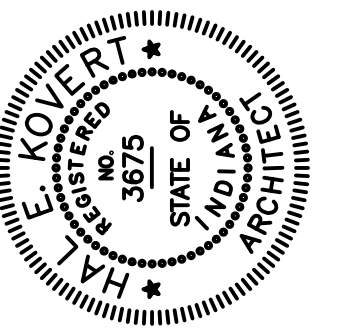
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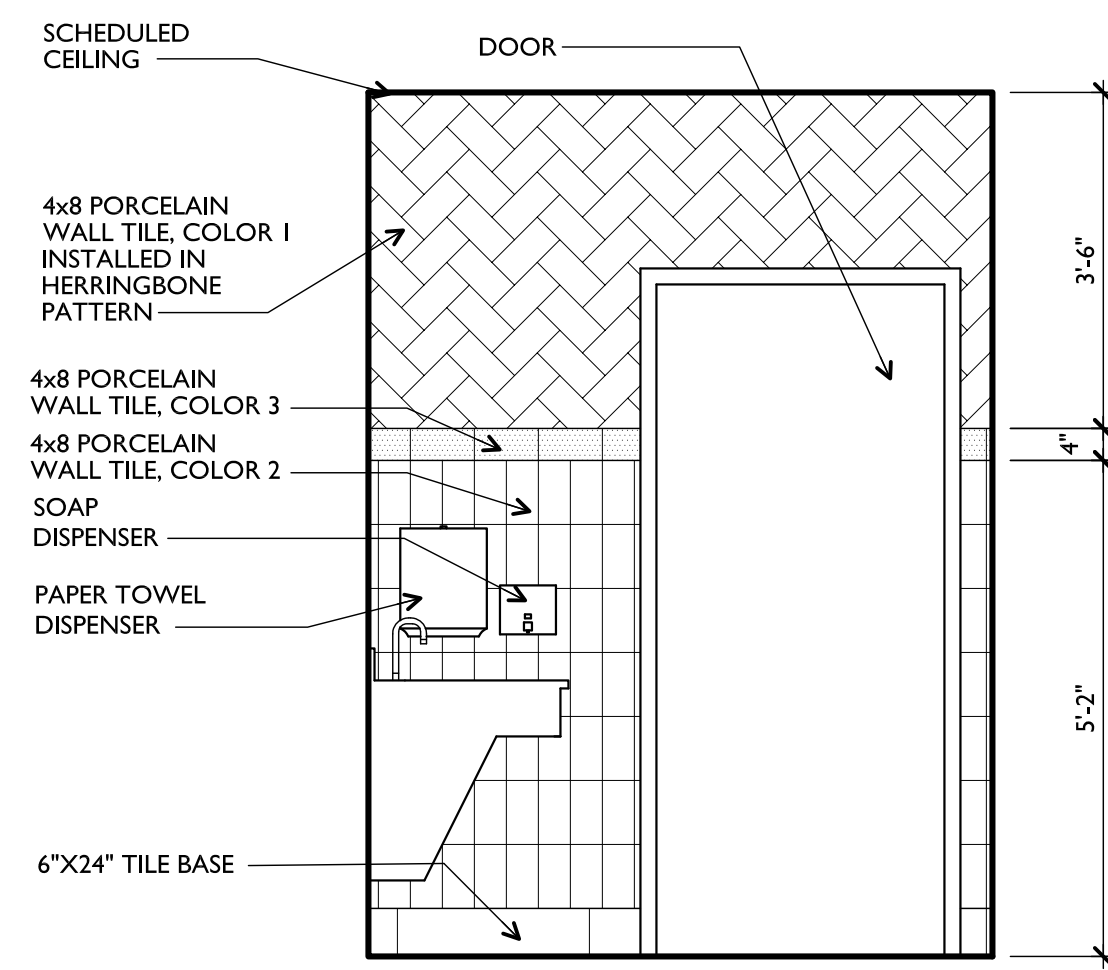
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architects

Drawn: BAB  
Checked By: HK  
Project No.: 1723.02  
Date: 12/07/2017

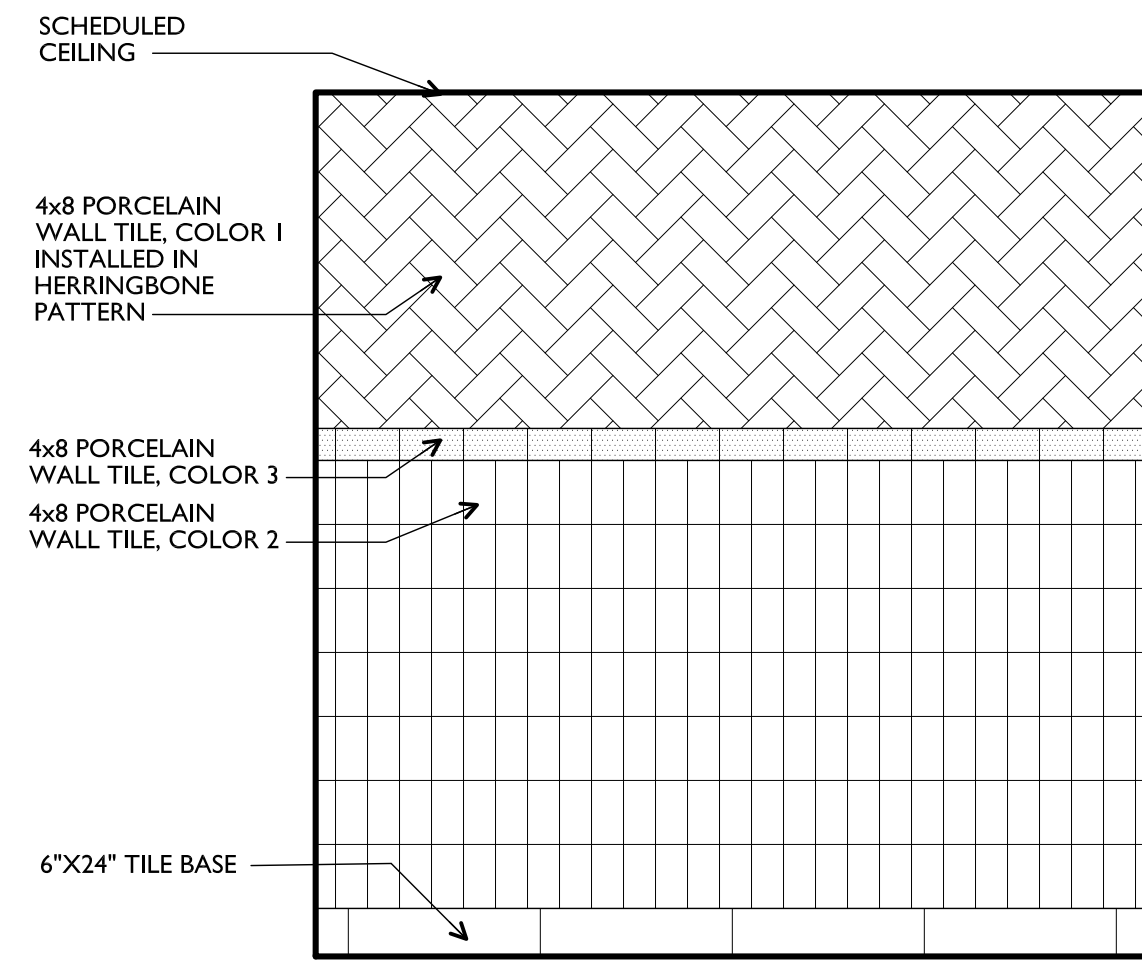
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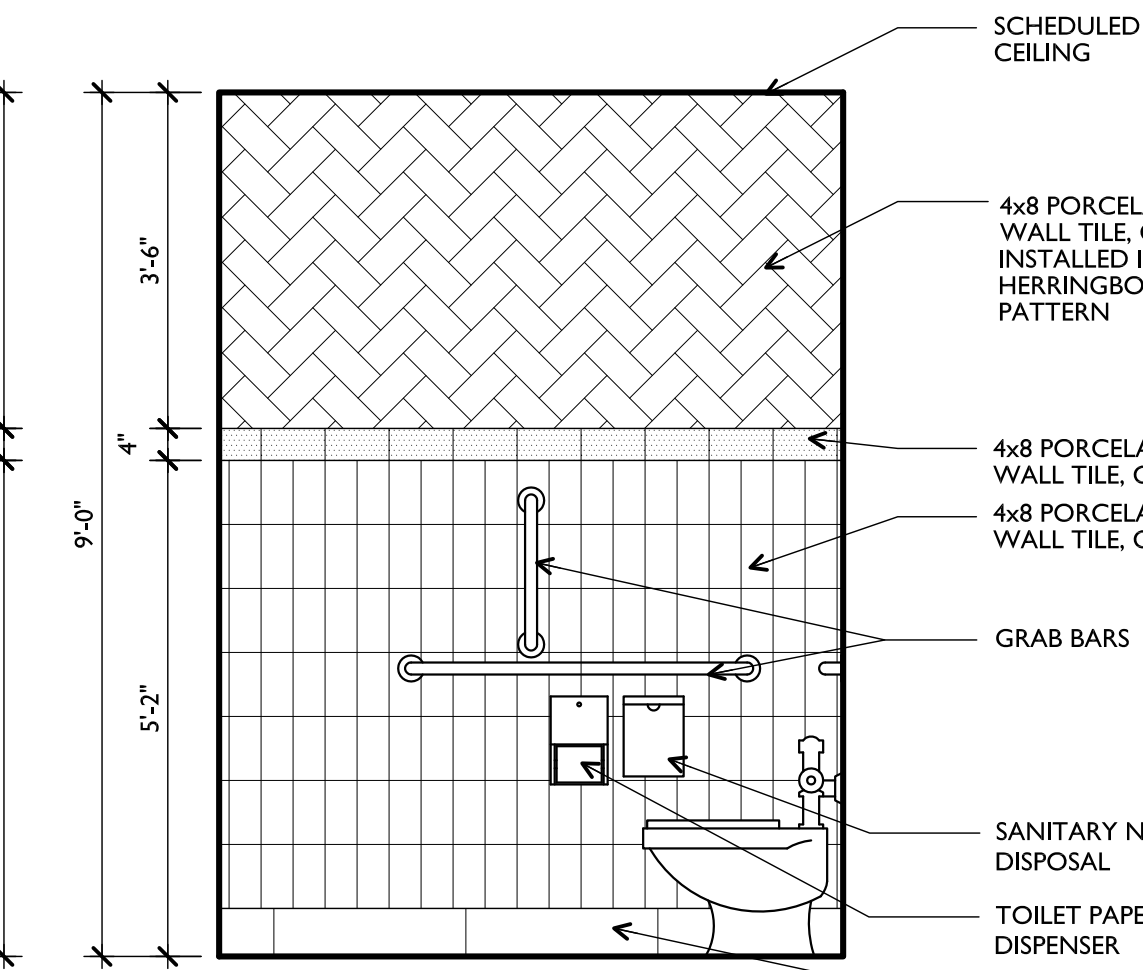
**2018 Renovation & Addition  
Clarksville Branch Library**  
Jeffersonville Township Public Library  
Clarksville, Indiana 47129  
1312 Eastern Boulevard



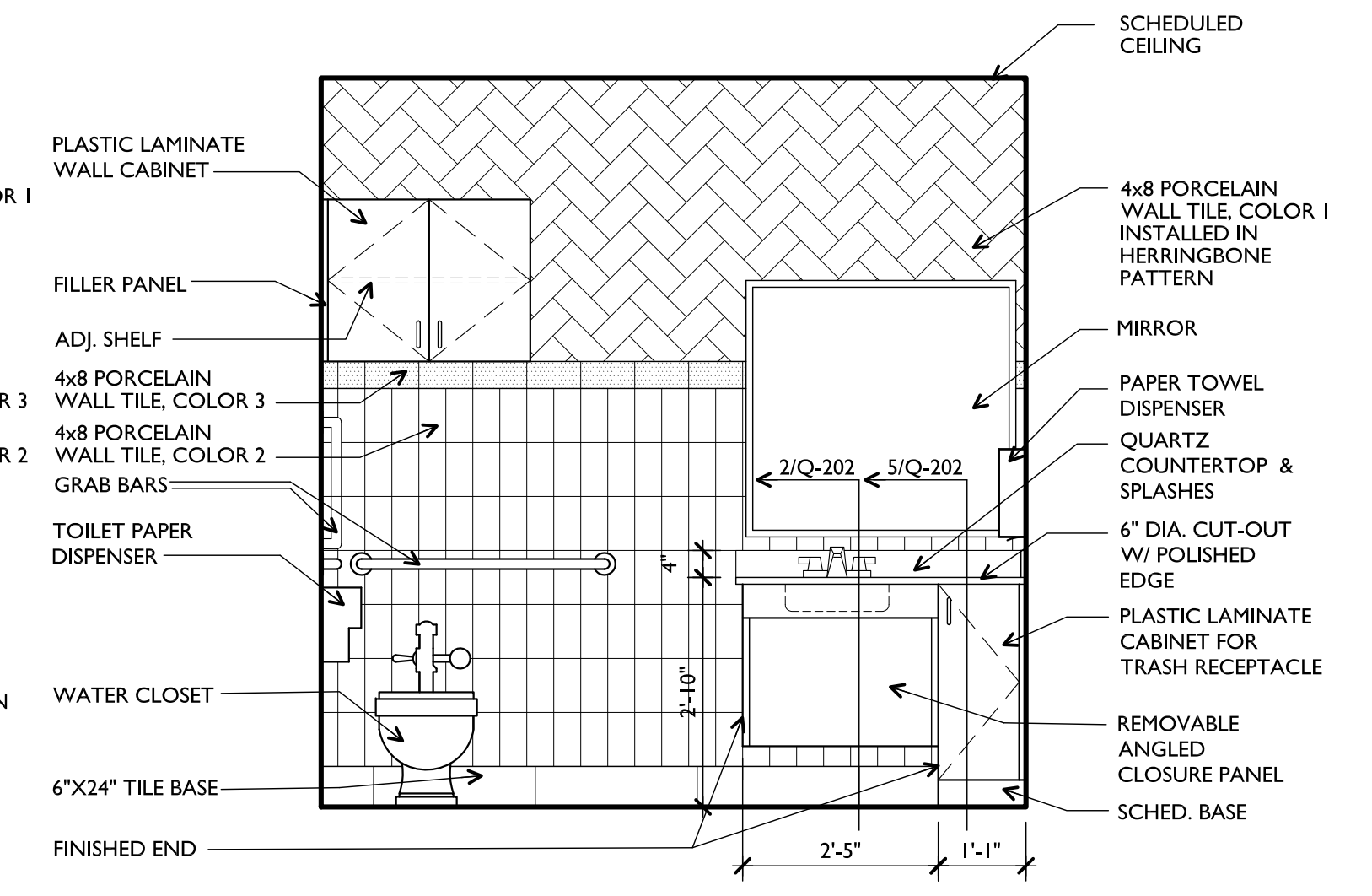
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I-301 full size plot scale: 1/2"=1'-0"



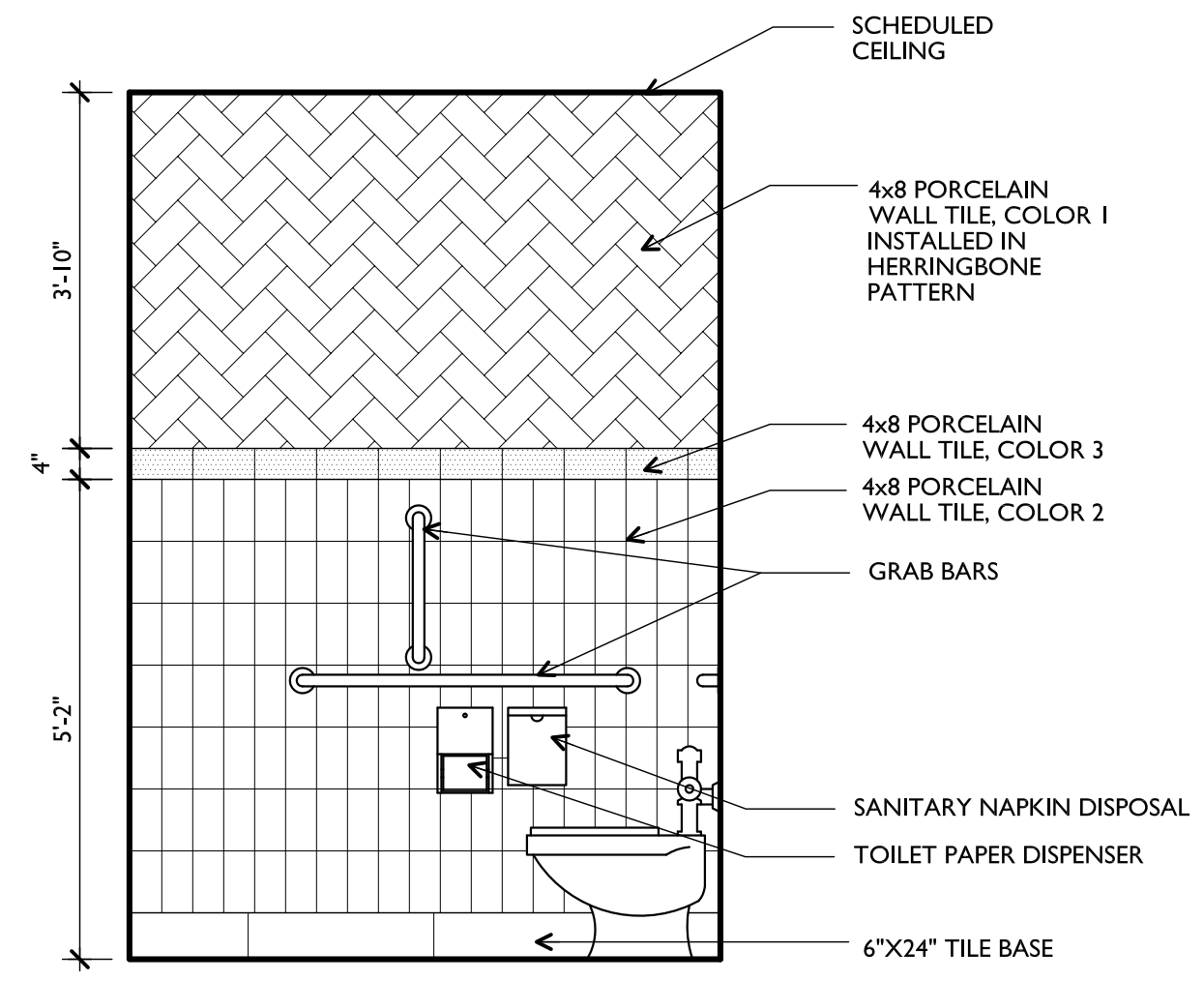
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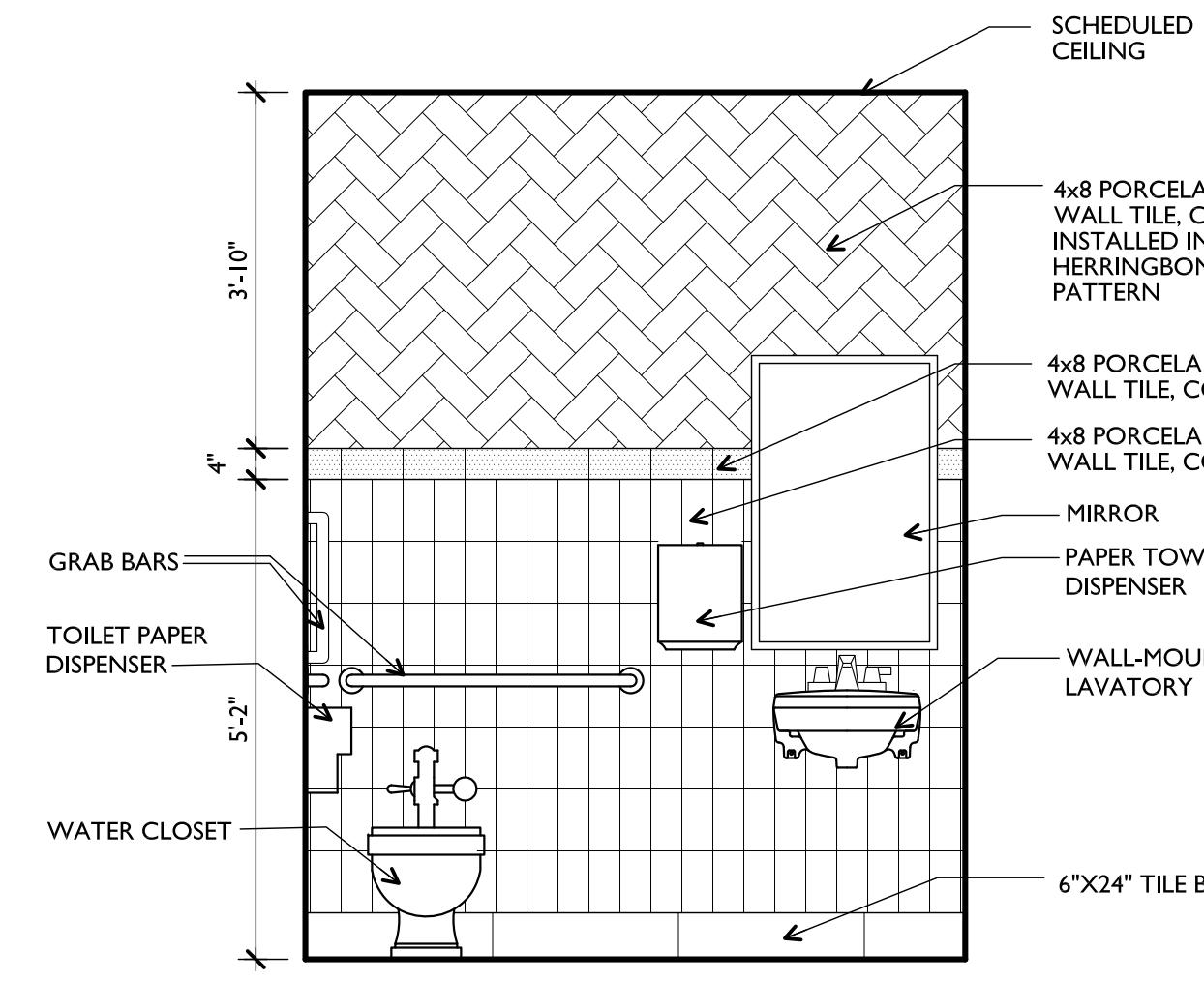
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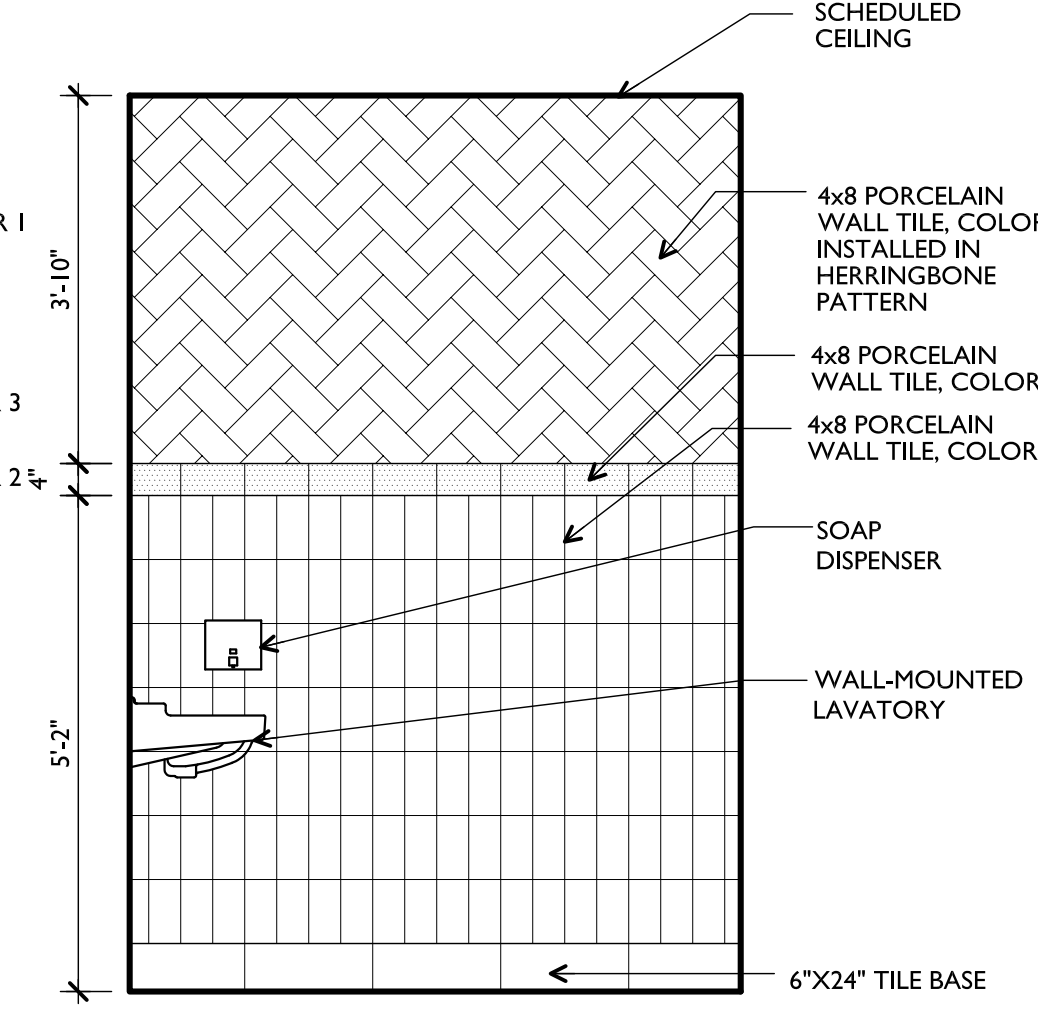
**1 Restroom 110**  
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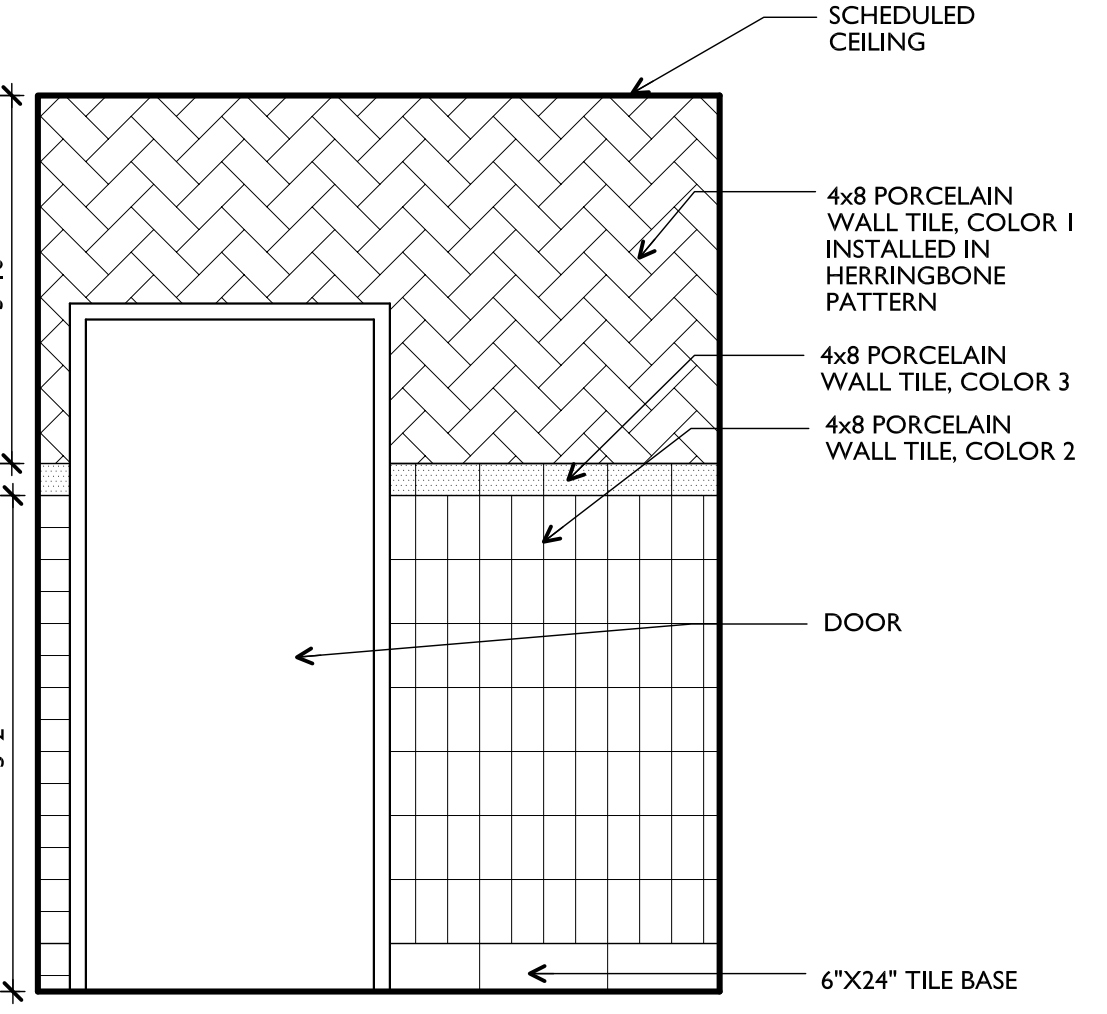
**8 Family R/R A122 Alt. No. 4**  
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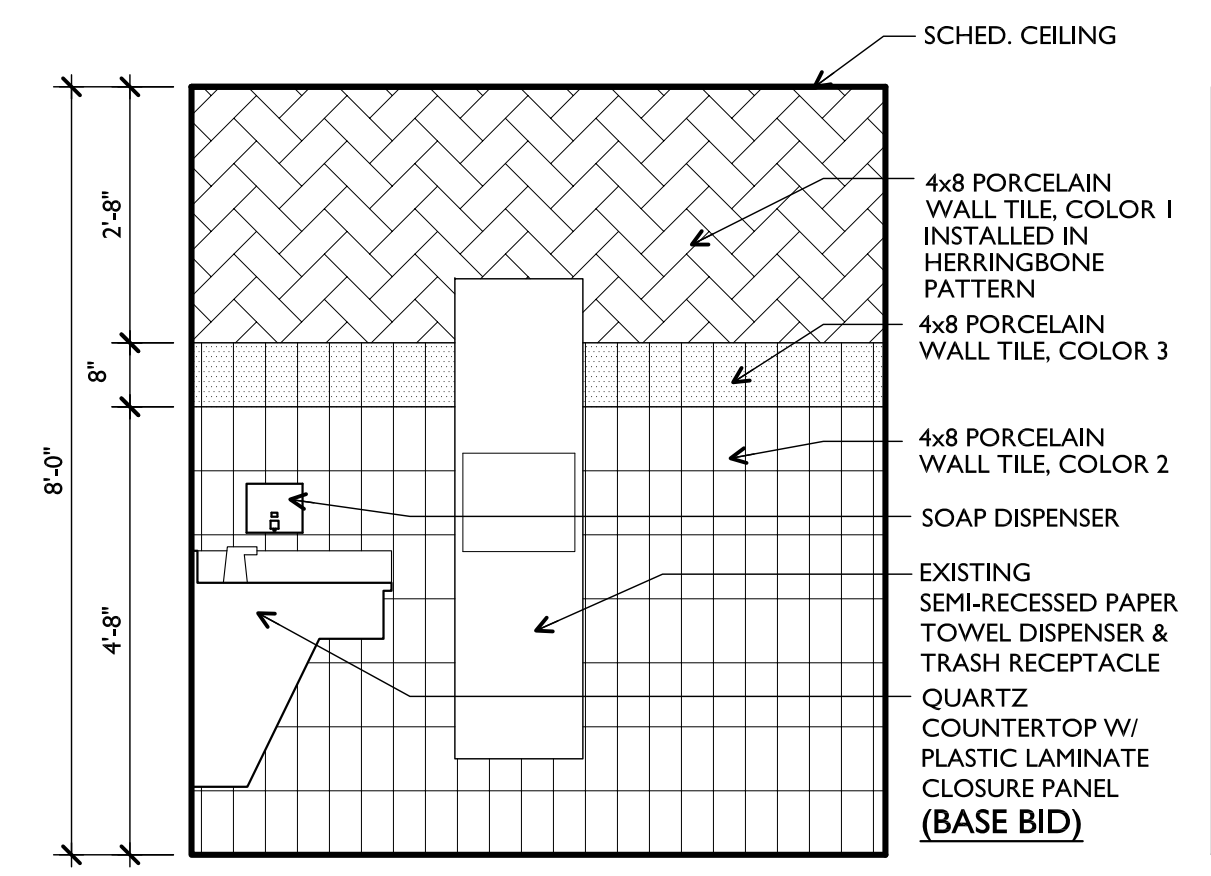
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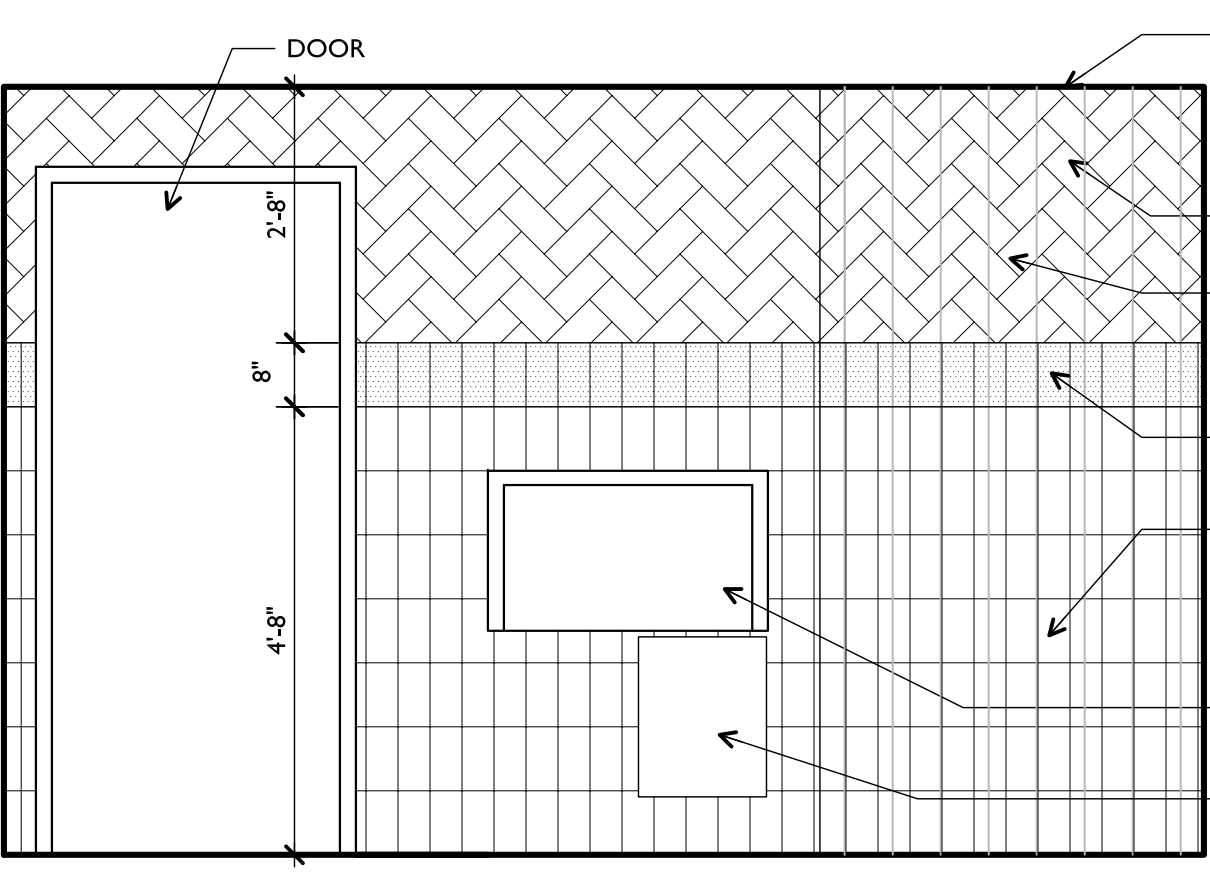
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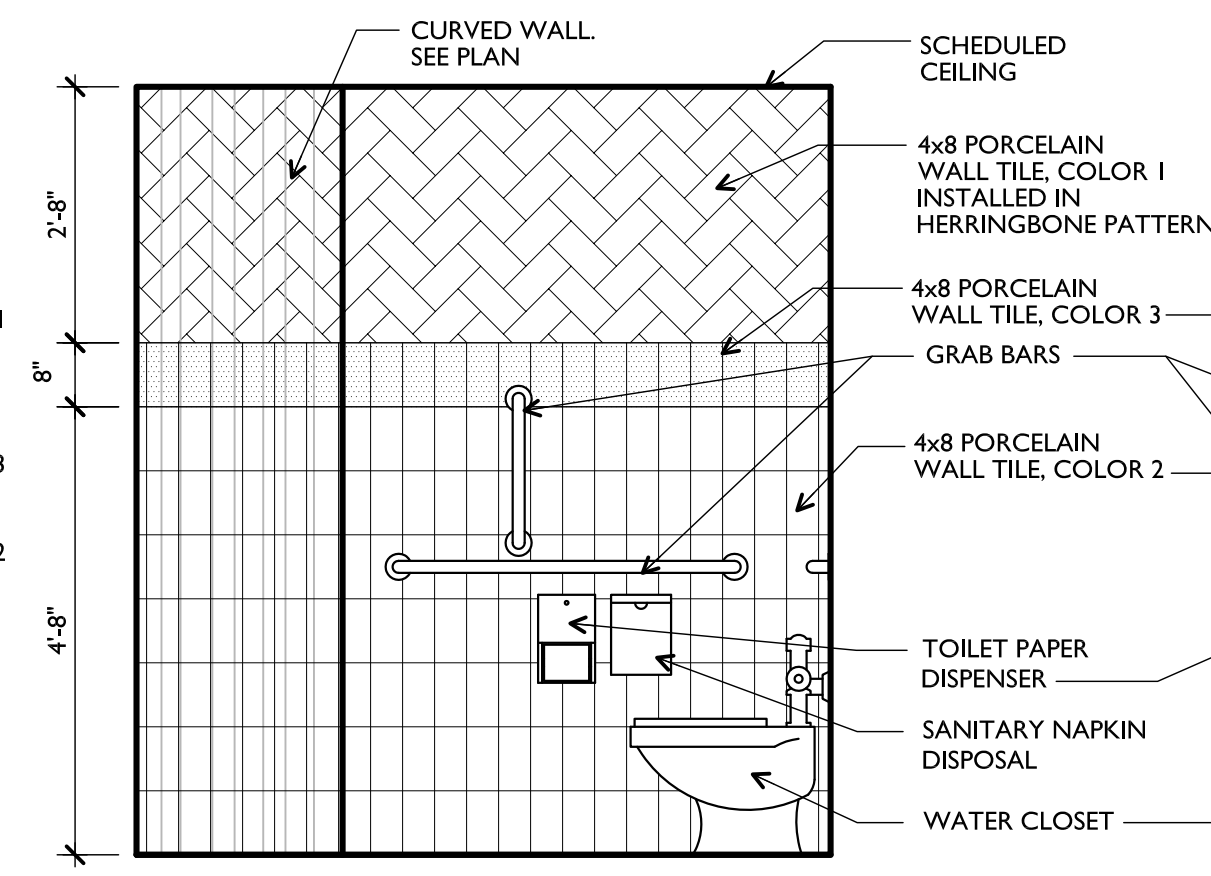
**5 Family R/R A122 Alt. No. 4**  
I-301 full size plot scale: 1/2"=1'-0"



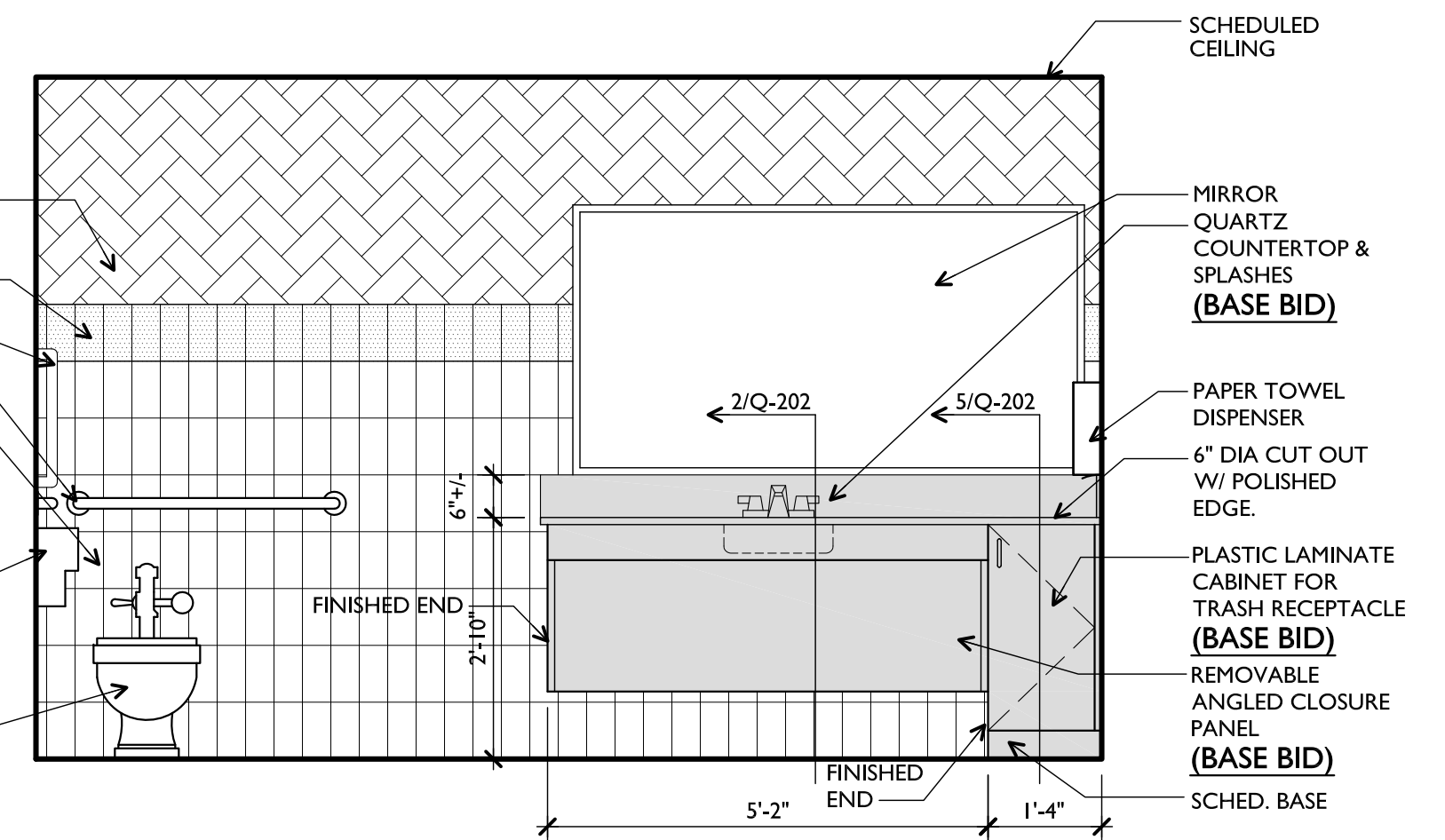
**12 Existing Family R/R A119 Alt. No. 5**  
I-301 full size plot scale: 1/2"=1'-0"



**11 Existing Family R/R A119 Alt. No. 5**  
I-301 full size plot scale: 1/2"=1'-0"



**10 Existing Family R/R A119 Alt. No. 5**  
I-301 full size plot scale: 1/2"=1'-0"



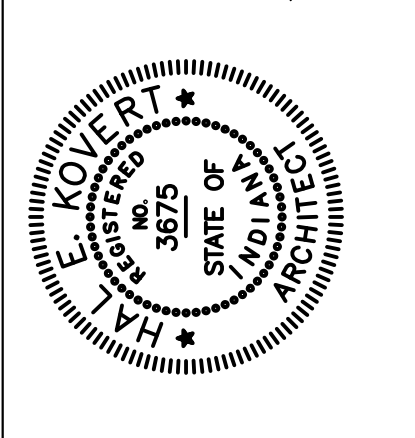
**9 Existing Family R/R A119 Alt. No. 5**  
I-301 full size plot scale: 1/2"=1'-0"

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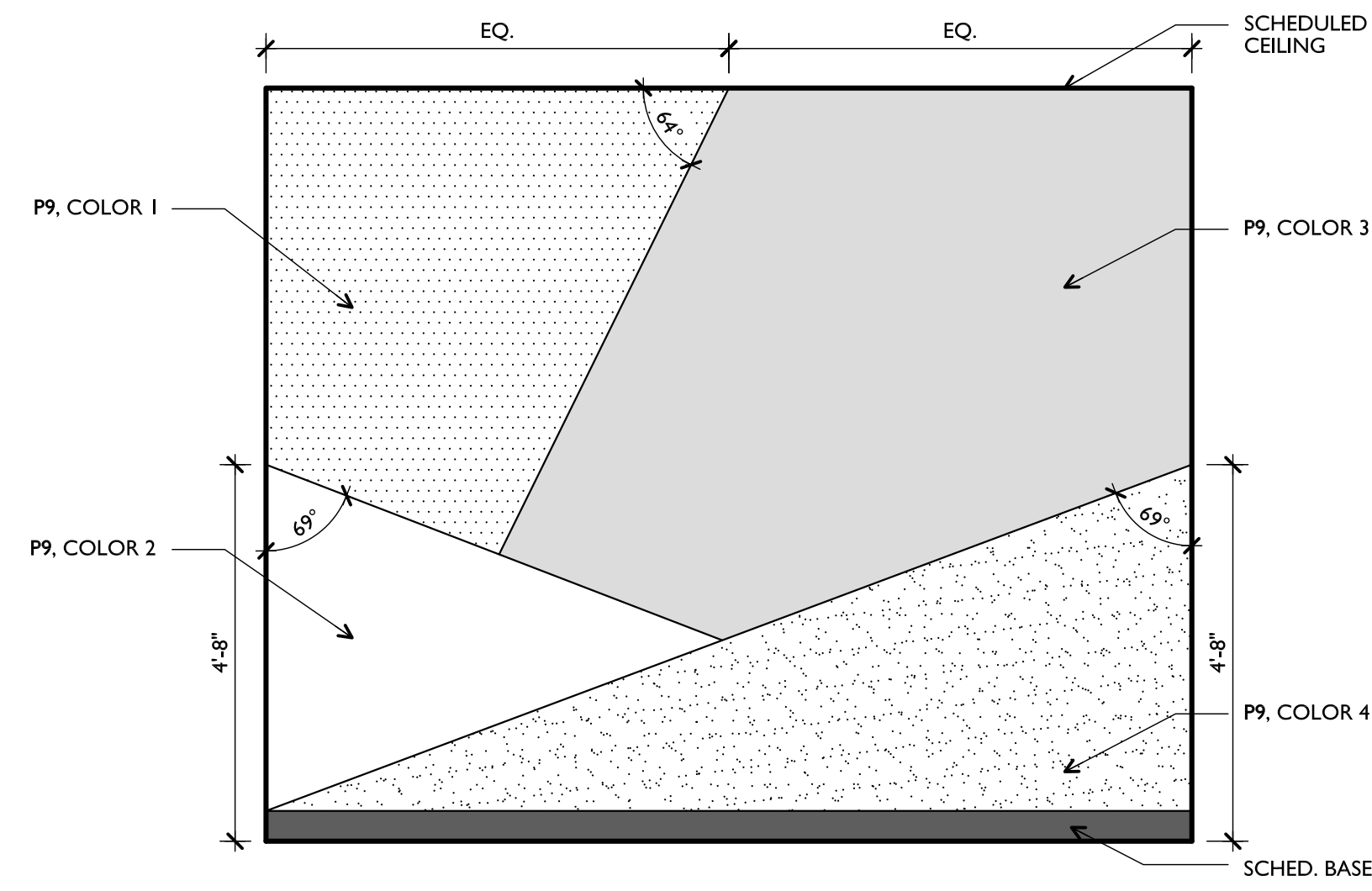
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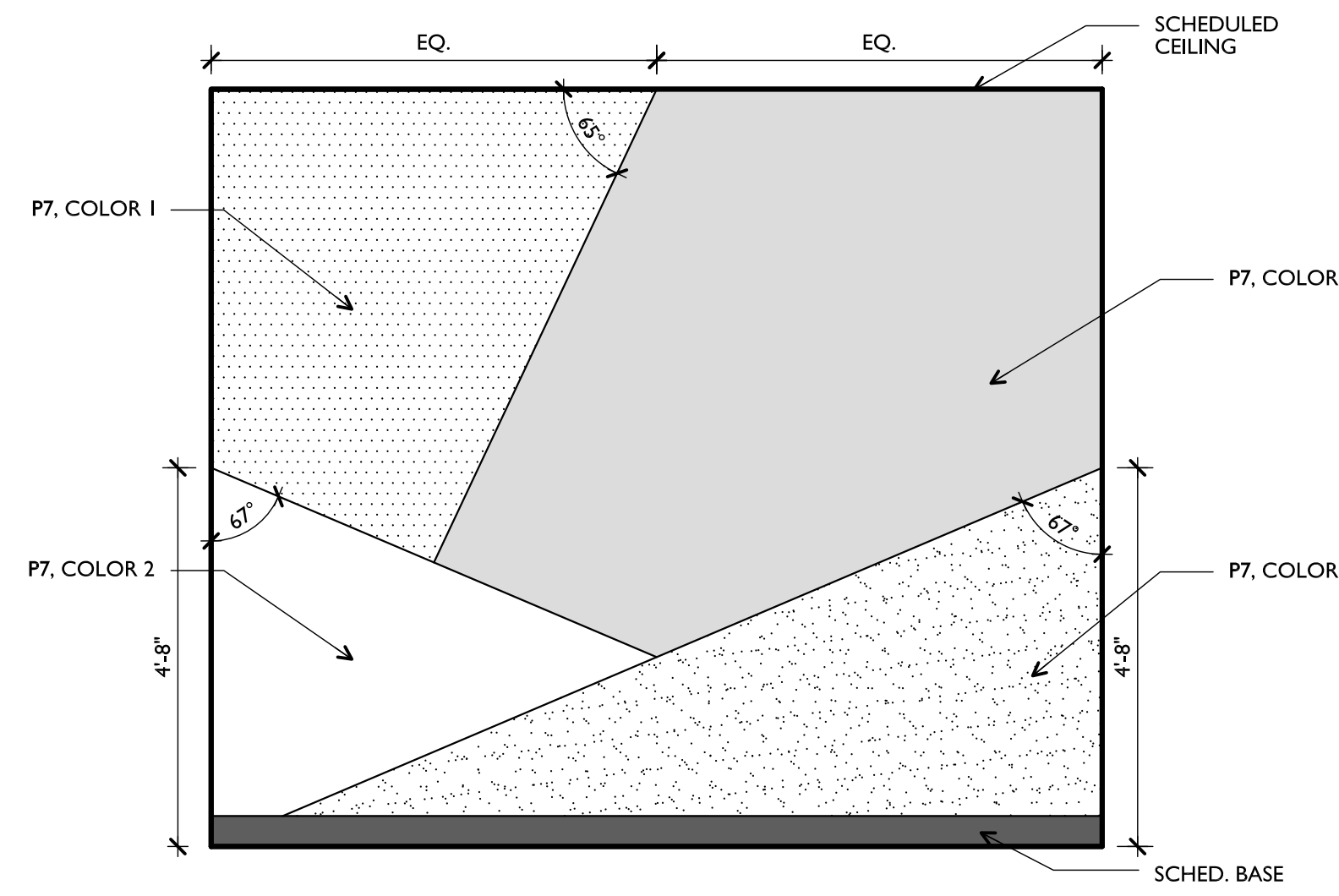
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Sheet  
**I-301**

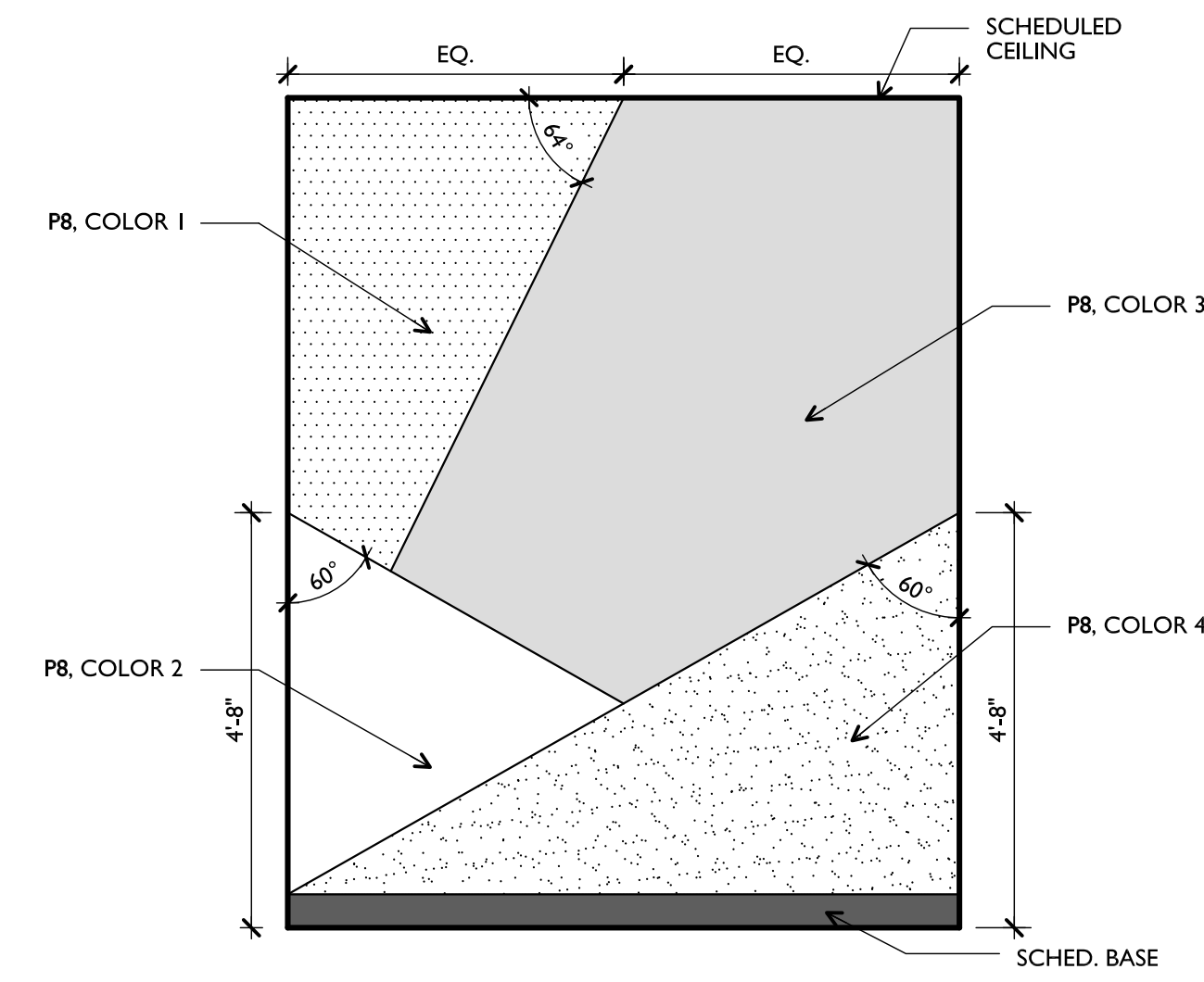




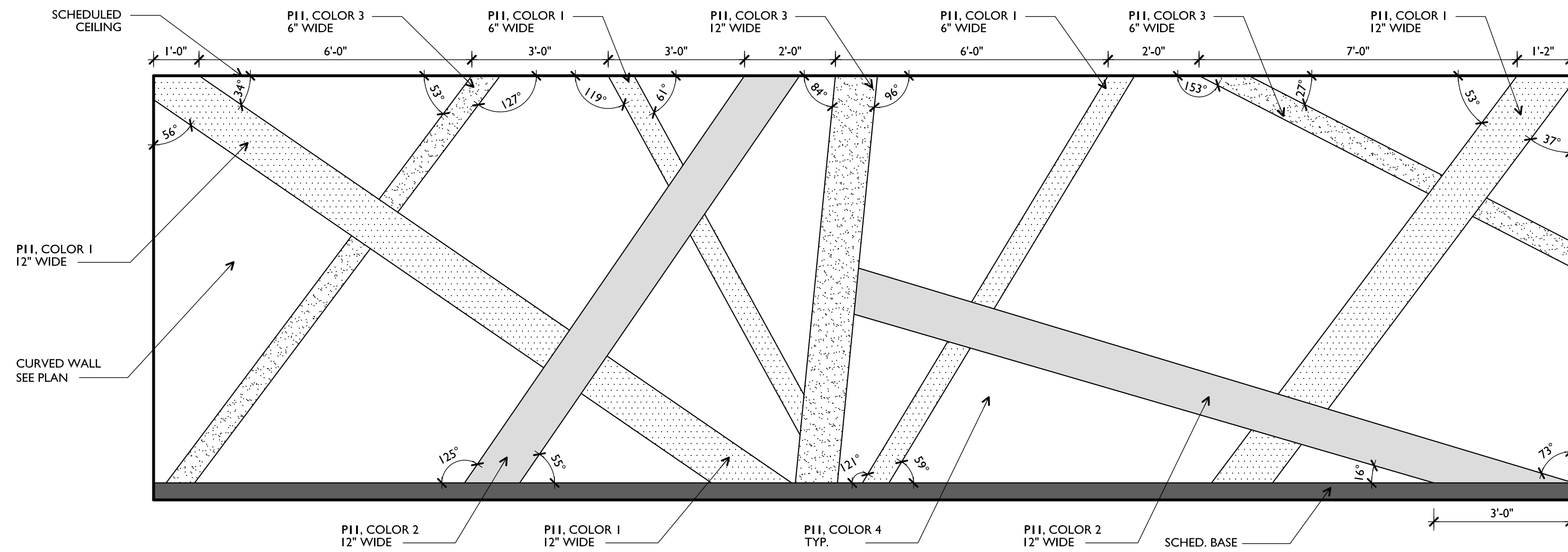
**3 Study Room 125**  
I-302 full size plot scale: 1/2"=1'-0"



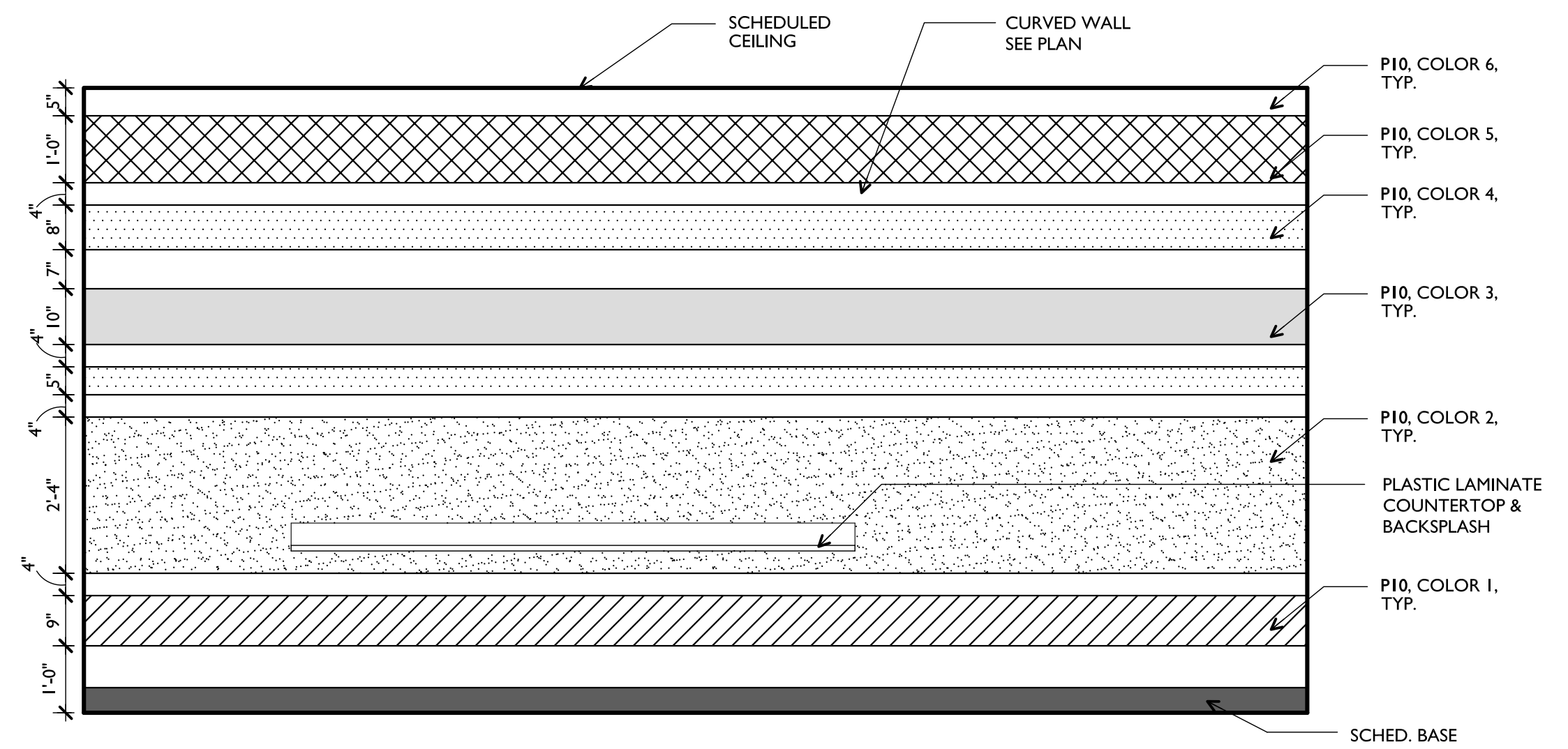
**2 Study Room 124**  
I-302 full size plot scale: 1/2"=1'-0"



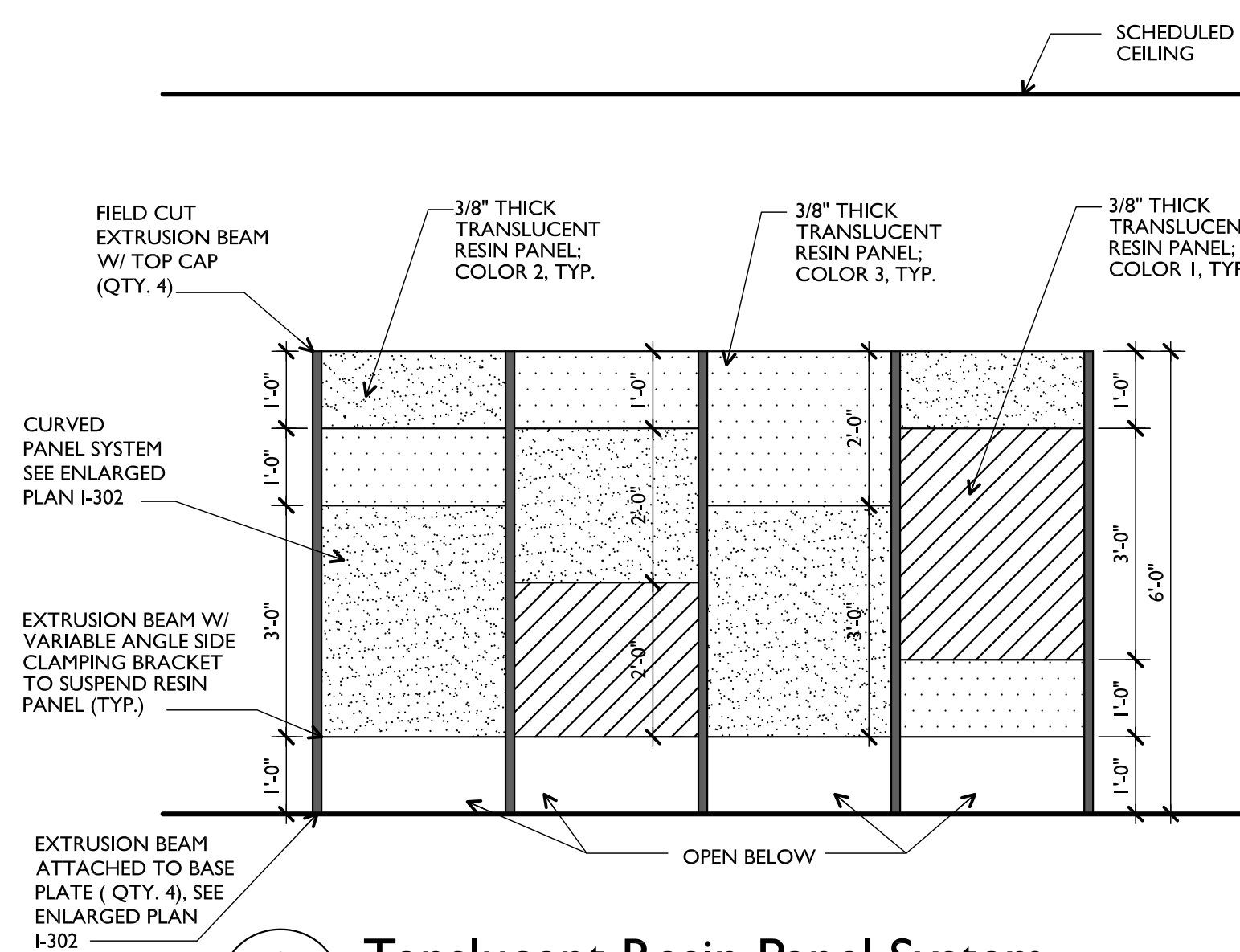
**1 Study Room 126**  
I-302 full size plot scale: 1/2"=1'-0"



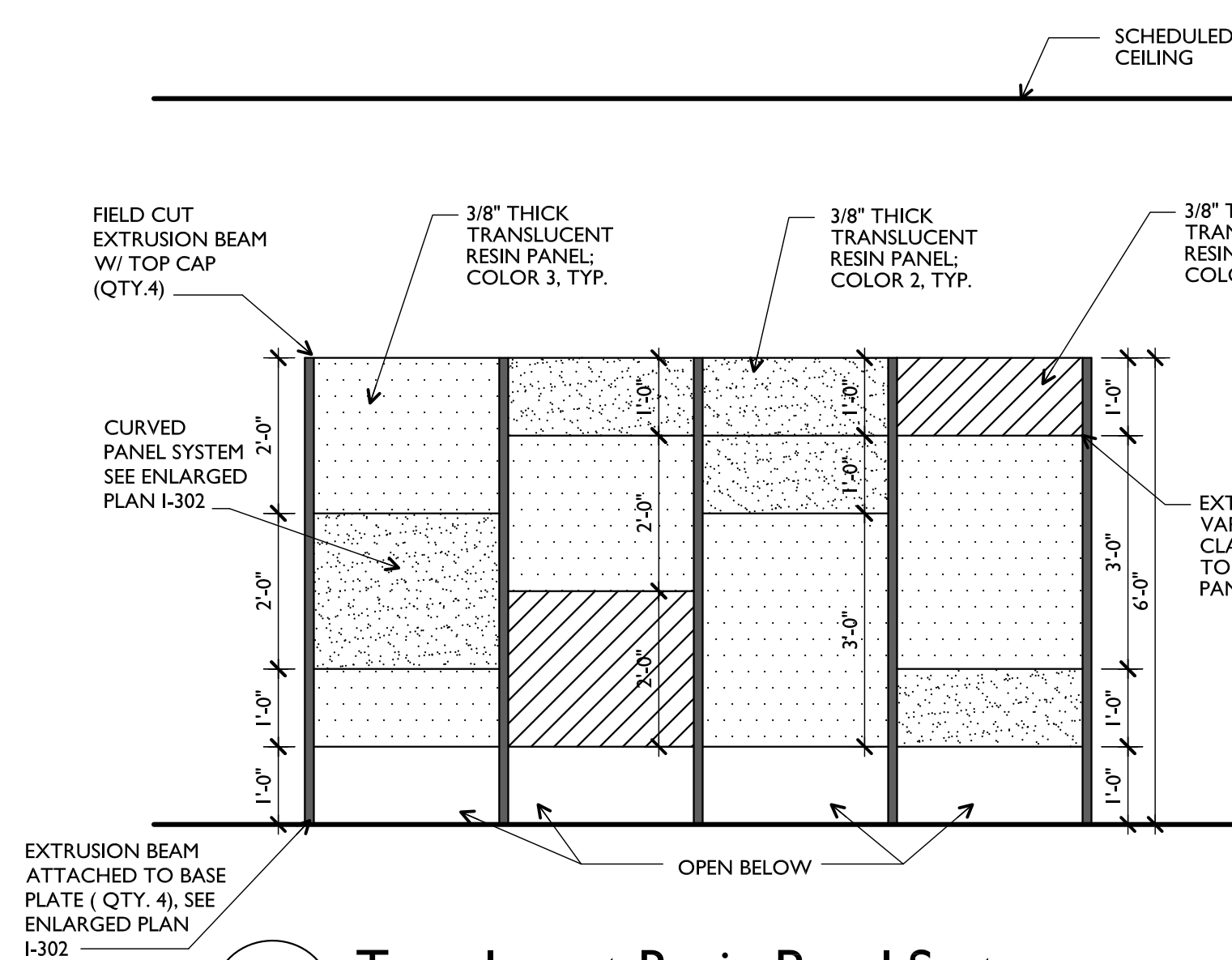
**5 Computer 117**  
I-302 full size plot scale: 1/2"=1'-0"



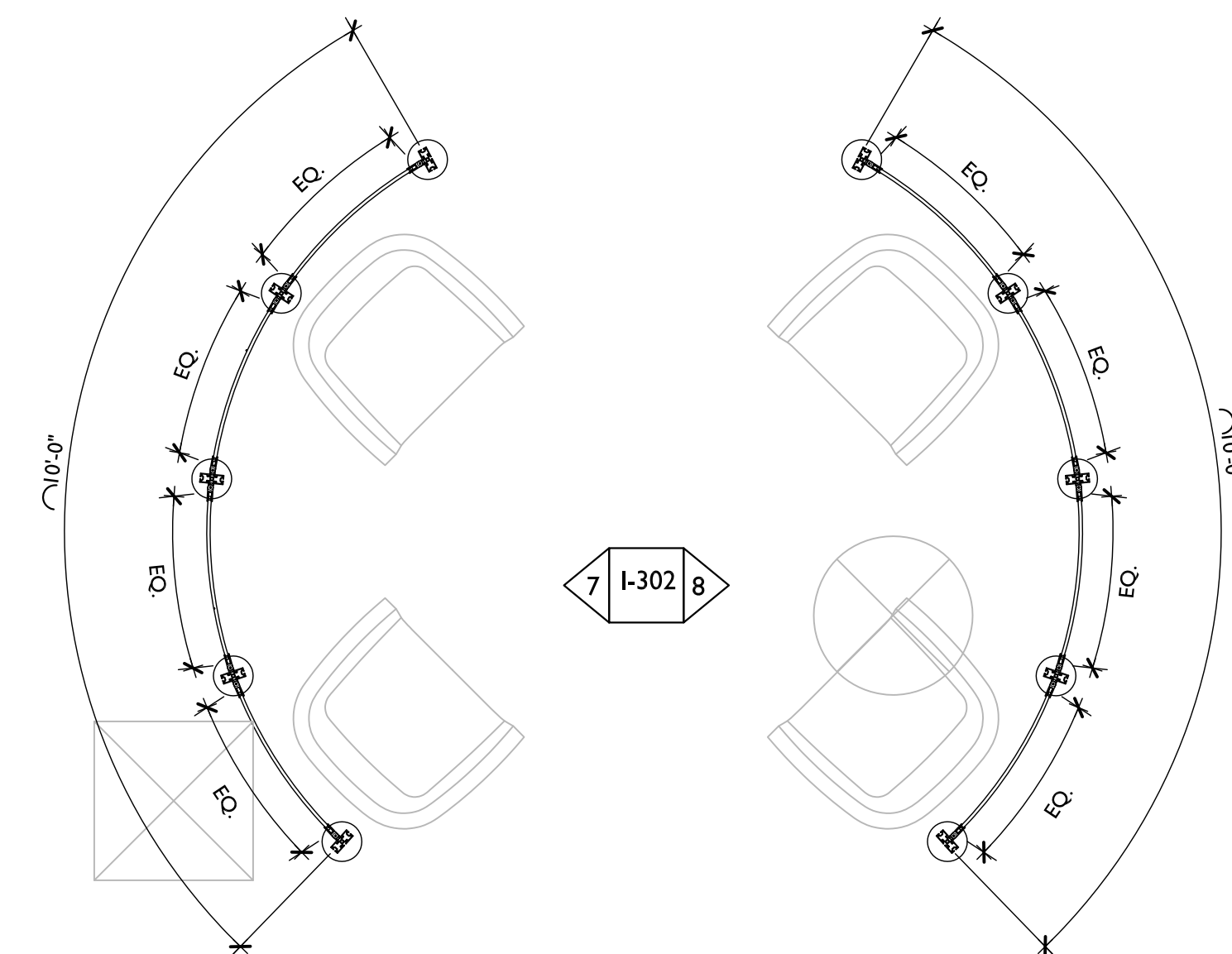
**4 Children's Collection 104**  
I-302 full size plot scale: 1/2"=1'-0"



**8 Translucent Resin Panel System**  
I-302 full size plot scale: 1/2"=1'-0"



**7 Translucent Resin Panel System**  
I-302 full size plot scale: 1/2"=1'-0"



**6 Enlarged Resin Panel Plan**  
I-302 full size plot scale: 1/2"=1'-0"

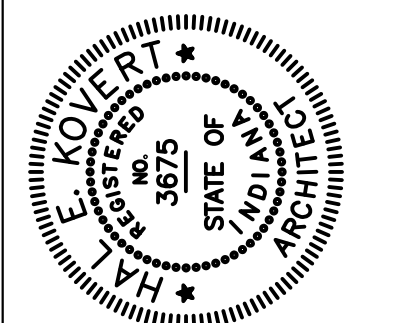
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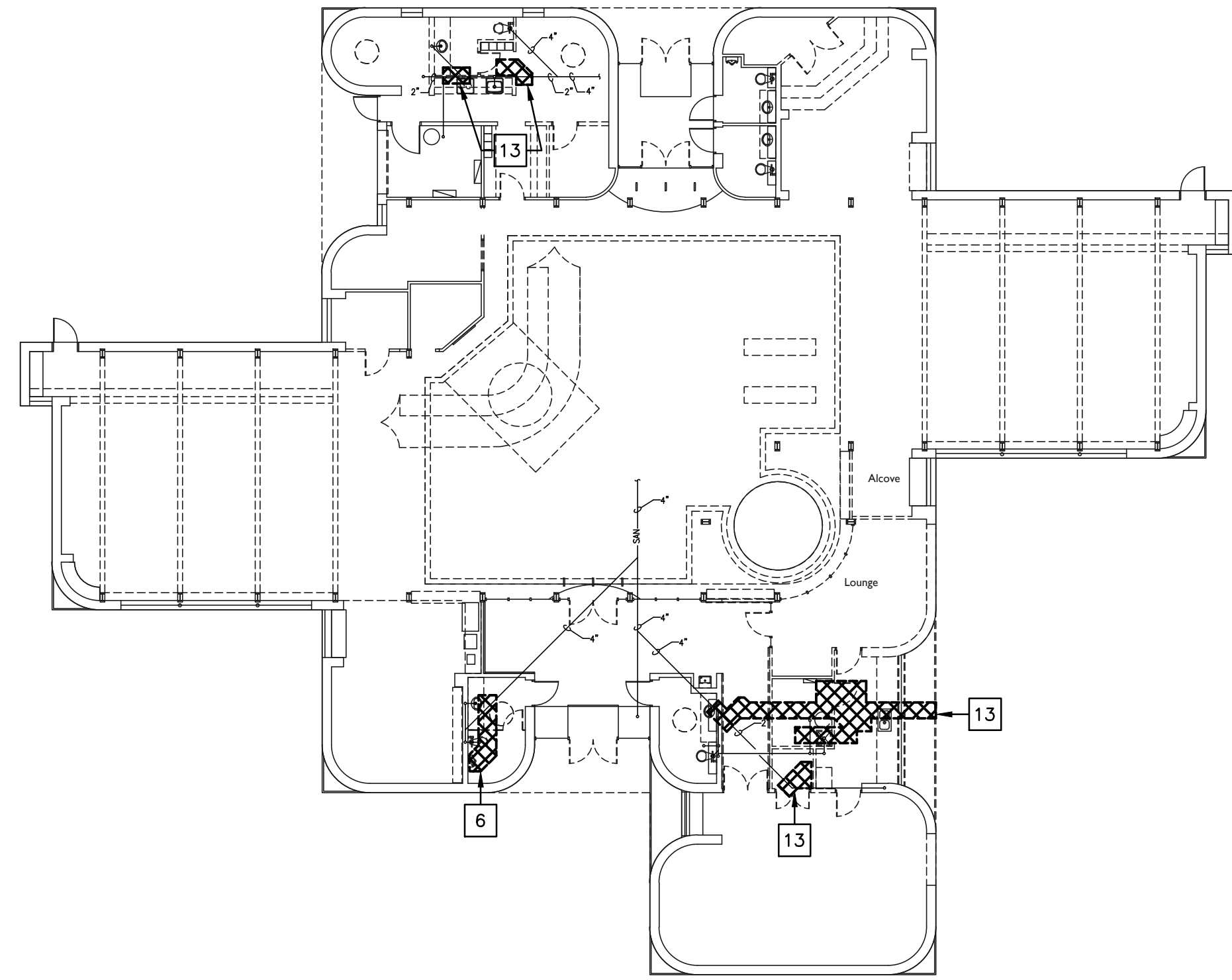
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Date	12/07/2017

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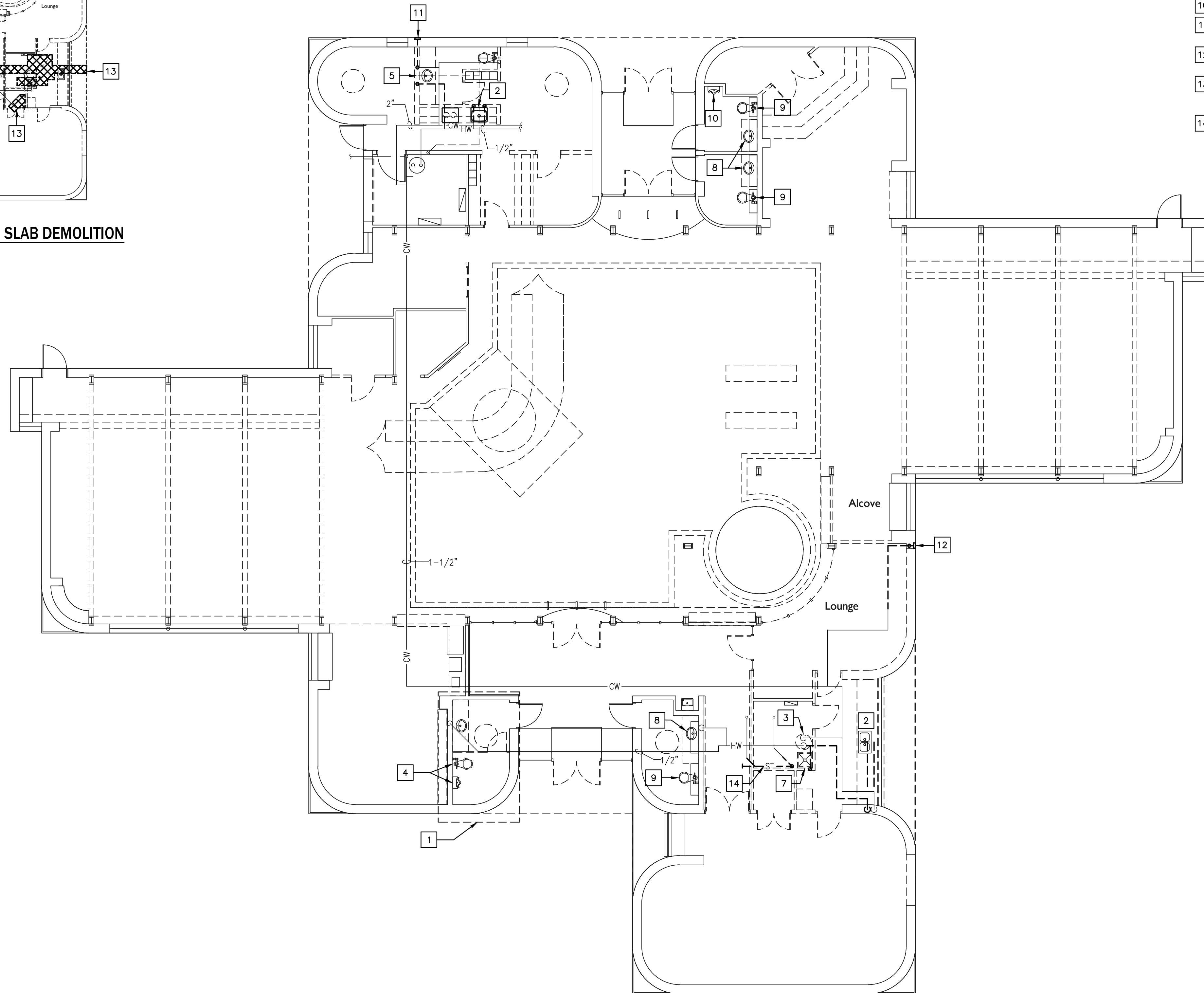
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**2 PLUMBING FLOOR SLAB DEMOLITION**  
 PD-101 SCALE: 1/16" = 1'-0"



**1 PLUMBING DEMOLITION WORK**  
 PD-101 SCALE: 1/8" = 1'-0"

**DEMOLITION PLAN NOTES:**

- 1 WORK SHALL BE COMPLETED ONLY IF ALTERNATE #5 IS ACCEPTED.
- 2 REMOVE SINK, PLUG WASTE BELOW FLOOR AND CAP WATER ABOVE CEILING.
- 3 EXISTING WATER HEATER SHALL BE RELOCATED. DEMOLISH AS LITTLE ASSOCIATED PIPING AS POSSIBLE. SEE NEW WORK. V.I.F.
- 4 PLUG EXISTING WASTE LINES TO TOILET FIXTURES TO BE REMOVED.
- 5 REMOVE LAV. CAP PIPING ABOVE CEILING AS SHOWN ON NEW WORK PLAN. PLUG WASTE BELOW FLOOR. PATCH FLOOR TO MATCH ADJACENT SURFACE.
- 6 SAW CUT AND REMOVE PORTION OF FLOOR SLAB AS REQUIRED FOR THE INSTALLATION OF NEW PIPING. BACKFILL, COMPACT, AND INSTALL NEW CONCRETE SLAB TO MATCH EXISTING. THIS WORK ONLY TO BE COMPLETED IF ALTERNATE #5 IS ACCEPTED.
- 7 REMOVE MOP BASIN, AND REPLACE WITH NEW MOP BASIN. USE EXISTING WASTE, WATER AND VENT CONNECTION FOR NEW WORK.
- 8 REMOVE LAV AND REPLACE WITH NEW LAV. USE EXISTING WASTE, WATER AND VENT CONNECTION FOR NEW WORK.
- 9 EXISTING WATER CLOSET TO REMAIN.
- 10 EXISTING URINAL TO REMAIN.
- 11 REMOVE WALL HYDRANT AND PATCH WALL TO MATCH ADJACENT SURFACE.
- 12 REMOVE WALL HYDRANT AND CAP PIPING AS INDICATED ON NEW WORK PLAN.
- 13 SAW CUT AND REMOVE PORTION OF FLOOR SLAB AS REQUIRED FOR THE INSTALLATION OF NEW PIPING. BACKFILL, COMPACT, AND INSTALL NEW CONCRETE SLAB TO MATCH EXISTING.
- 14 REMOVE STORM PIPING AS INDICATED. SEE NEW WORK FOR RELOCATION OF STORM RISER.

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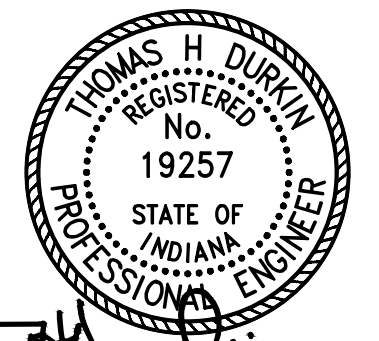


**KovertHawkins**  
 architects

Drawn: SDA  
 Checked By: SDA  
 Project No.: 1723.02  
 Date: 12/29/2017

Revisions	1	2	3	4	5	6

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**2018 Renovation & Addition**  
**Clarksville Branch Library**  
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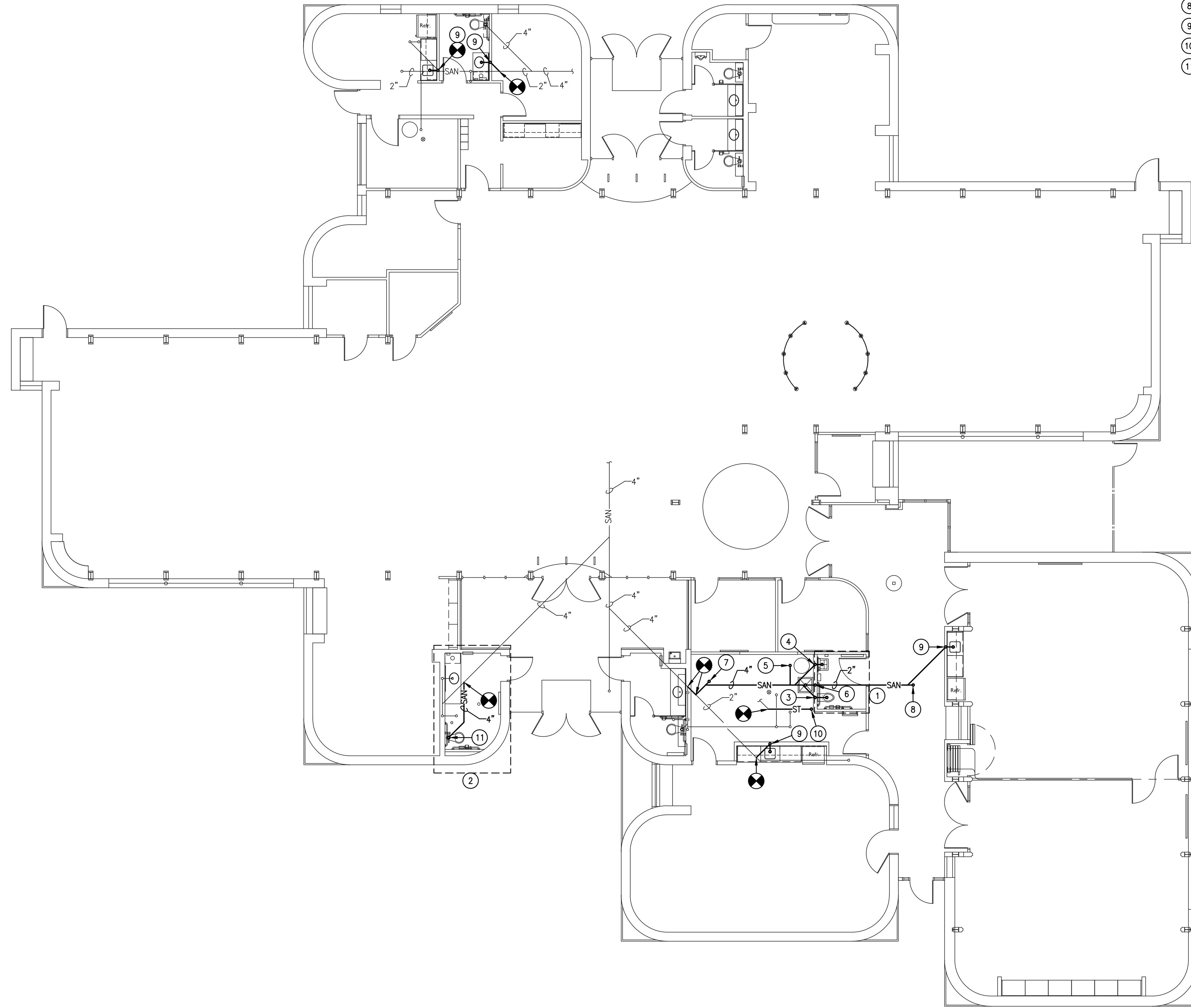
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**PD-101**



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1 PLUMBING FOUNDATION PLAN  
P-101 SCALE: 1/8" = 1'-0"

**REFERENCE PLAN NOTES:**

- ① WORK SHALL BE COMPLETED ONLY IF ALTERNATE #4 IS ACCEPTED.
- ② WORK SHALL BE COMPLETED ONLY IF ALTERNATE #5 IS ACCEPTED.
- ③ 4" WASTE RISER TO WATER CLOSET. THIS PORTION OF WORK IS ONLY REQUIRED IF ALTERNATE #4 IS ACCEPTED.
- ④ 2" WASTE RISER IN WALL. THIS PORTION OF WORK IS ONLY REQUIRED IF ALTERNATE #4 IS ACCEPTED.
- ⑤ 2" WASTE RISER TO FLOOR DRAIN.
- ⑥ 3" WASTE RISER TO MOP BASIN. THIS PORTION OF WORK IS BASE BID.
- ⑦ 4" WASTE RISER TO FLOOR CLEANOUT.
- ⑧ 2" WASTE RISER TO FLOOR CLEANOUT.
- ⑨ 2" WASTE RISER IN WALL.
- ⑩ 3" STORM RISER.
- ⑪ 4" WASTE RISER TO WATER CLOSET.

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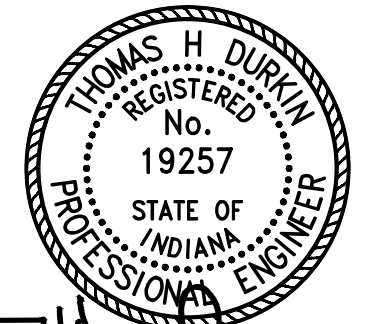


**KovertHawkins**  
architects

Drawn SDA  
Checked By SDA  
Project No. 1723.02  
Date 12/8/2017

Revisions  
1  
2  
3  
4  
5  
6

Certified By



*Thomas H. Durkin*

2018 Renovation & Addition  
**Clarksville Branch Library**  
Jeffersonville Township Public Library  
1312 Eastern Boulevard  
Clarksville, Indiana 47129

Sheet

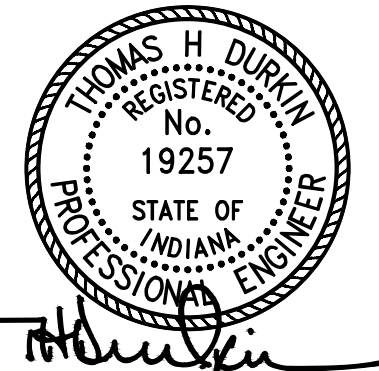
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Drawn	SDA
Checked By	SDA
Project No.	1723.02
Date	12/29/2017

Revisions	1
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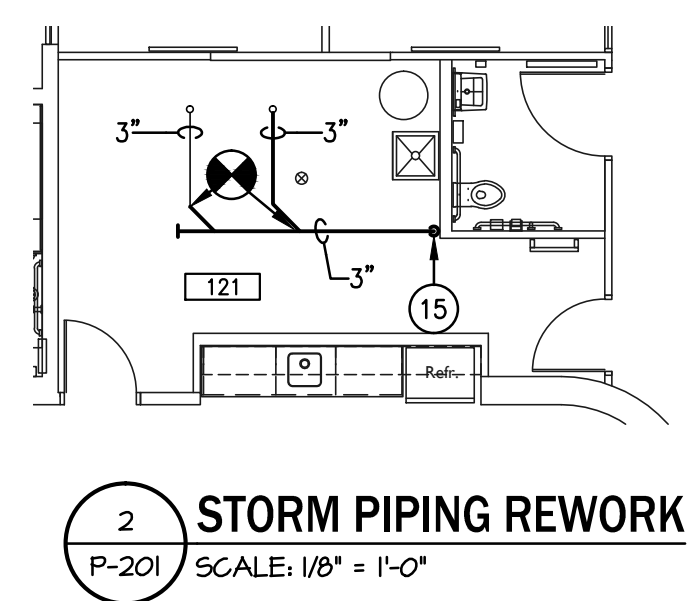
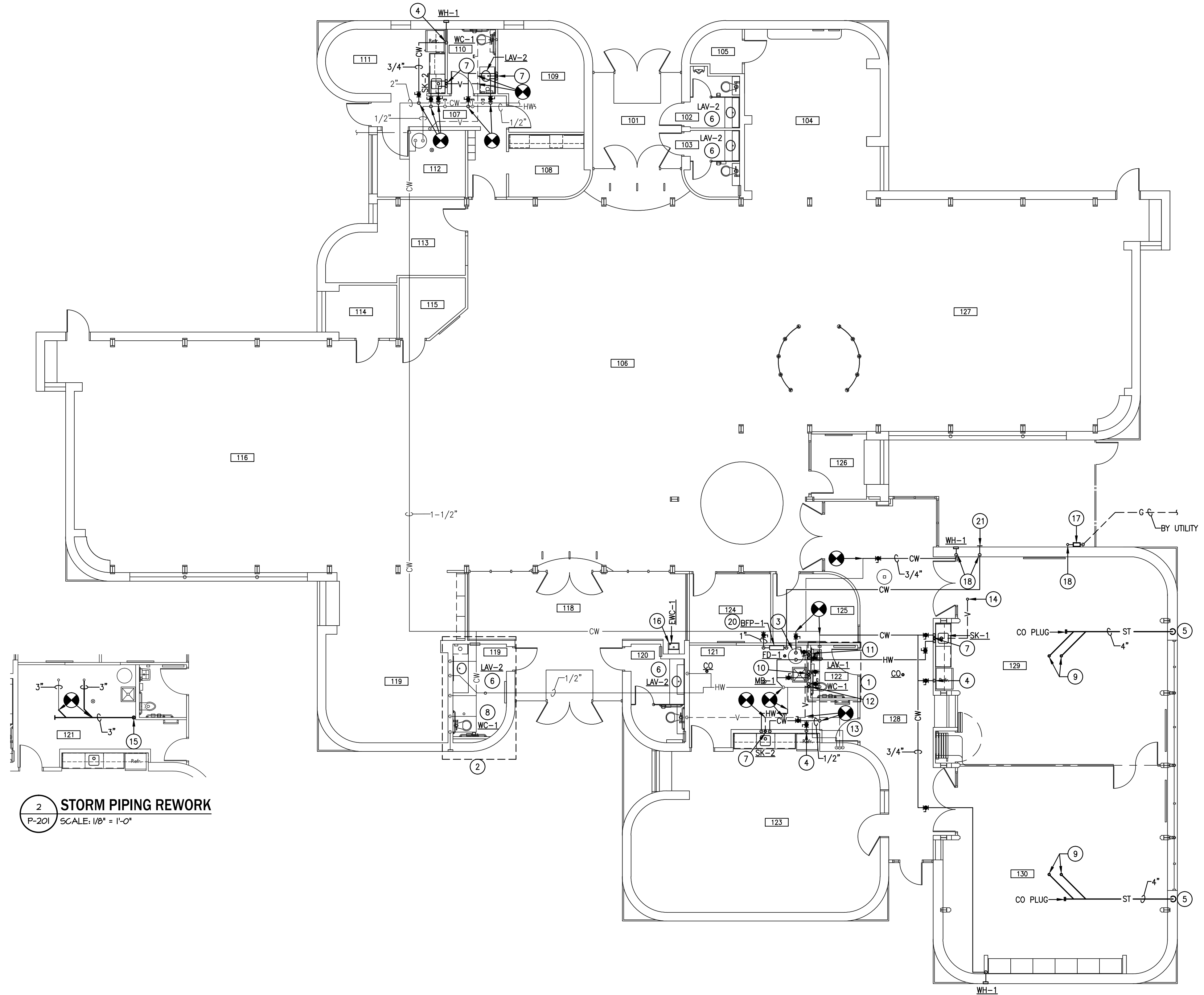
Certified By



**2018 Renovation & Addition**  
**Clarksville Branch Library**  
Jeffersonville Township Public Library  
1312 Eastern Boulevard  
Clarksville, Indiana 47129

**REFERENCE PLAN NOTES:**

- 1 WORK SHALL BE COMPLETED ONLY IF ALTERNATE #4 IS ACCEPTED.
- 2 WORK SHALL BE COMPLETED ONLY IF ALTERNATE #5 IS ACCEPTED.
- 3 RELOCATED EXISTING WATER HEATER. RECONNECT TO EXISTING PIPING LINES; MATCH SIZES; V.I.F.; SEE SCHEDULE FOR INFO.
- 4 1/2" CW UP TO GUY GRAY MODEL BIM 875 ICE MAKER BOX RECESSED IN WALL. INSTALL BOTTOM OF BOX AT 48" AFF. FURNISH A MINIMUM OF 5 FT OF METAL BRAIDED HOSE FOR CONNECTING TO REFRIGERATOR ICE MAKER. PAINT BOX FLANGE TO MATCH WALL.
- 5 4" DOWN TO DOWNSPOUT NOZZLE DSN-1.
- 6 RECONNECT TO EXISTING CW, HW, WASTE AND VENT PIPING.
- 7 1/2" HW AND CW DROP IN WALL. 2" WASTE DROP AND 1-1/2" VENT RISER.
- 8 USE EXISTING CW WATER LINE AND REROUTE AS NECESSARY FOR CONNECTION TO NEW WATER CLOSET.
- 9 4" STORM UP TO RD-1.
- 10 3/4" HW AND CW DROP IN WALL TO MOP BASIN. 3" WASTE DROP AND 1-1/2" VENT RISER. THIS WORK IS BASE BID.
- 11 1/2" HW AND CW DROP IN WALL 2" WASTE DROP AND 1-1/2" VENT RISER. THIS WORK IS ONLY REQUIRED IF ALTERNATE #4 IS ACCEPTED.
- 12 1" CW DROP IN WALL TO WATER CLOSET. THIS WORK IS ONLY REQUIRED IF ALTERNATE #4 IS ACCEPTED.
- 13 REWORK ANY DOMESTIC, STORM, SANITARY AND VENT PIPING IN THIS LOCATION TO AVOID NEW ROOF HATCH. THIS WORK IS ONLY REQUIRED IF ALTERNATE #6 IS ACCEPTED.
- 14 3" VTR.
- 15 3" STORM DROP.
- 16 REWORK EXISTING CW, WASTE AND VENT CONNECTIONS FOR NEW ELECTRIC WATER COOLER.
- 17 GAS METER BY GAS UTILITY. TOTAL LOAD = 950 CFH. SEE DETAIL 2 ON SHEET P-301.
- 18 2-1/2" GAS RISER. 1/2" FLEXIBLE ELASTOMERIC INSULATION ON PIPING IN EXTERIOR WALL.
- 19 1/2" FLEXIBLE ELASTOMERIC INSULATION ON PIPING IN EXTERIOR WALL.
- 20 1" FOR IRRIGATION. THIS WORK IS REQUIRED ONLY IF ALTERNATE #1 IS ACCEPTED.
- 21 SEE SITE FOR CONTINUATION.



**1 PLUMBING NEW WORK**  
P-201 SCALE: 1/8" = 1'-0"

**Notice**  
The Architect/Engineer does not define the scope of individual trades, subcontractors, material suppliers, or vendors. Any sheet numbering system used which identifies disciplines is solely for the Architect/Engineer's convenience, and is not intended to define a subcontractor's scope of work. Information regarding individual trades, subcontractors, material suppliers, and vendors may be detailed, described and indicated at different locations throughout these documents. No consideration will be given to requests for change orders for failure to obtain and review the complete set of drawings and specifications when preparing bids, prices, and quotations.



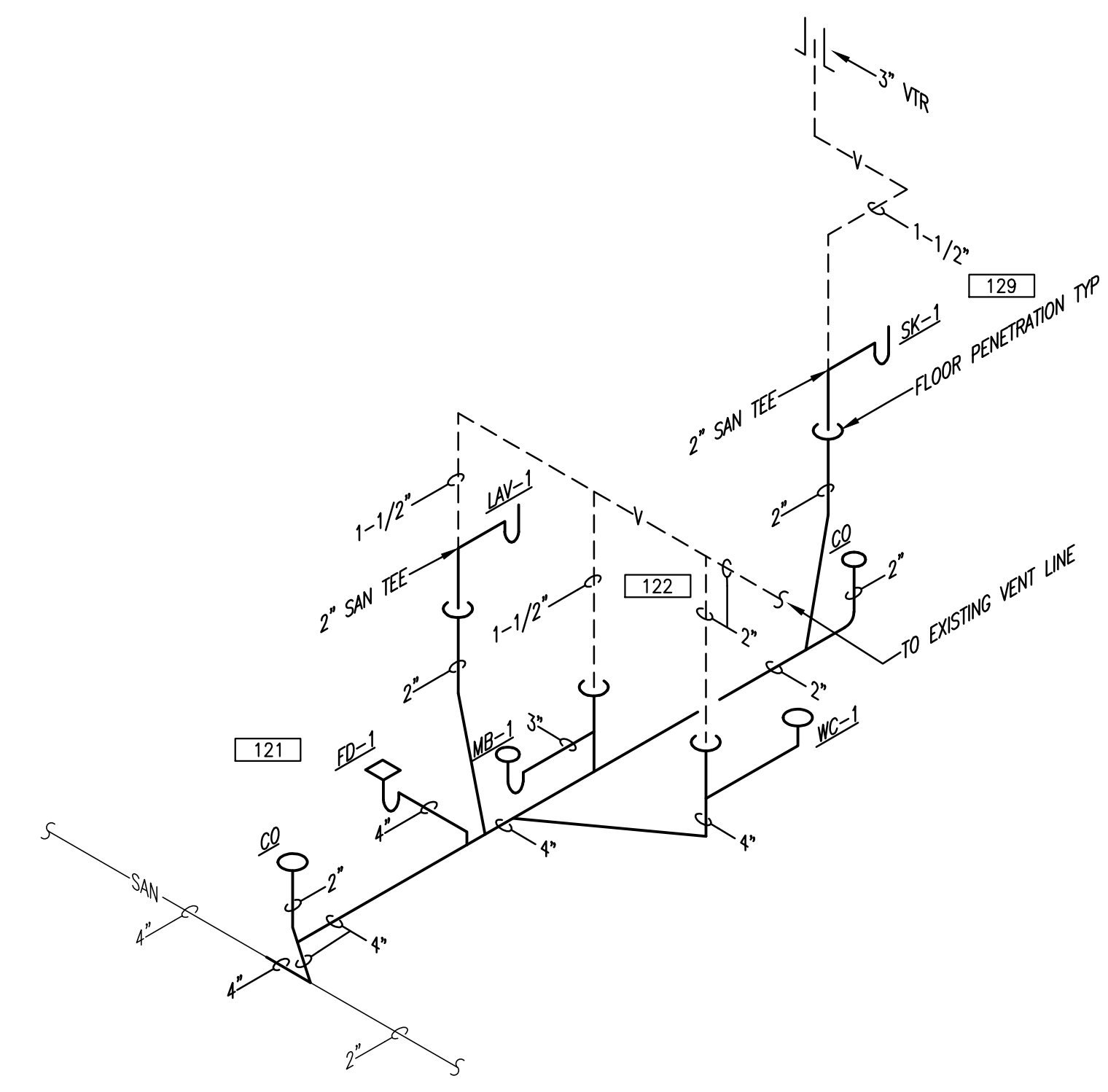


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Project No.: 1723.02  
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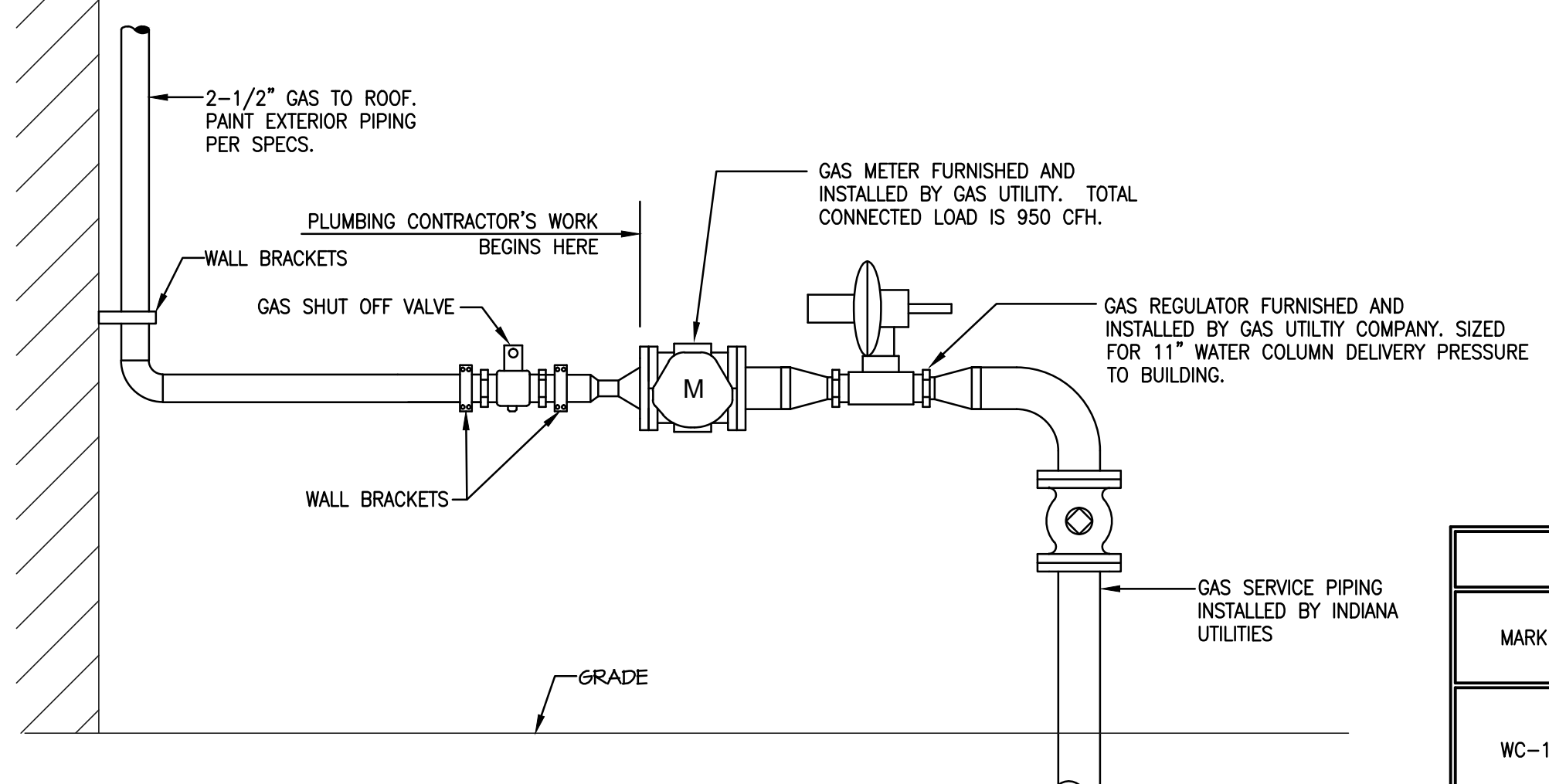
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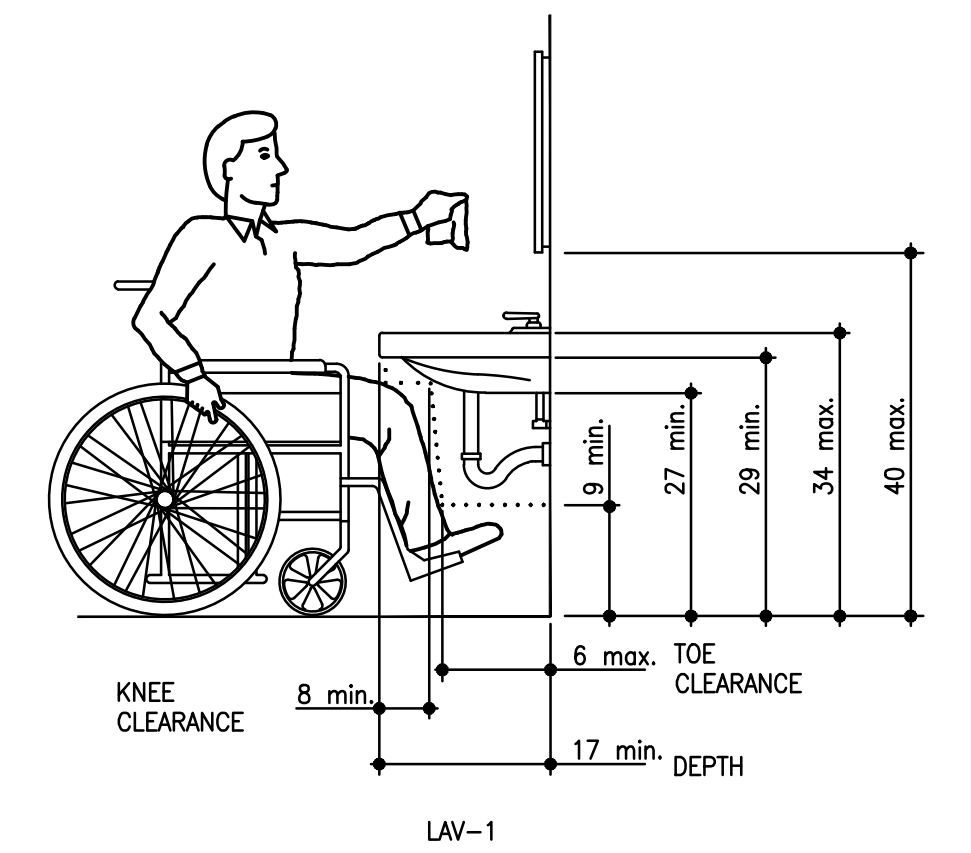
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**3 SOIL, WASTE AND VENT RISER DIAGRAM**  
P-201 SCALE: NONE



**2 GAS METER DETAIL**  
P-201 SCALE: NONE



**1 ADULT ADA LAVATORY CLEARANCE**  
P-201 SCALE: NONE

**4 SOIL, WASTE AND VENT RISER DIAGRAM FOR TYPICAL SINK/LAV**  
P-201 SCALE: NONE

DRAIN AND MISCELLANEOUS SCHEDULE				
MARK	MANUFACTURER / MODEL NUMBER	DESCRIPTION	REMARKS	MARK
DSN-1	ZURN Z199 DOWNSPOUT NOZZLE OR JAY R. SMITH MFG., CO. 1770	ALL NICKEL BRONZE BODY; THREADED INLET	CONTRACTOR SHALL SELECT ONE OF TWO OPTIONS LISTED	DSN-1
RD	ZURN ZC163-EA-VP	15" DIAMETER COMBINATION MAIN ROOF AND OVERFLOW DRAIN WITH CAST-IRON LOCKABLE DOMES, ADJUSTABLE EXTENSION AND VANDAL-PROOF SECURED TOP.	VERIFY EXACT EXTENSION HEIGHT WITH ROOFING CONTRACTOR.	RD
WH-1	WOODFORD MODEL B67	FREEZELESS WALL HYDRANT WITH ASSE 1052 NIDEL 50HA DOUBLE CHECK BACKFLOW PREVENTER, 3/4" HOSE THREAD NOZZLE, LOOSE KEY AND STAINLESS STEEL RECTANGULAR BOX.	LOCATE WHERE SHOWN ON DRAWINGS. APPROXIMATELY 30" ABOVE GRADE.	WH-1
FD-1	ZURN Z566	12" SQUARE OPEN TOP DRAIN WITH CAST-IRON BODY, BOTTOM OUTLET AND LOOSE SET CAST-IRON SECONDARY STRAINER.	"HIGH-FLOW" FLOOR DRAIN. INSTALL TRAP SEAL DEVICE EQUAL TO "SURESEAL". INSTALL UNDER BACKFLOW PREVENTER.	FD-1
CO	ZURN ZN1400-BZ	ADJUSTABLE ON-GRADE CLEANOUT WITH CAST-IRON BODY. ROUND SCORIATED TOP WITH ADDITIONAL LEVELING ADJUSTMENT TO FINISH FLOOR. FRAME AND COVER FINISH: NICKEL BRONZE.	FOR CLEANOUTS ON FINISHED FLOOR.	CO
BFP-1	WATTS 009	1" REDUCED PRESSURE ZONE BACKFLOW PREVENTER.	ALTERNATE #1	BFP-1

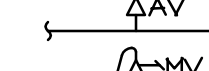
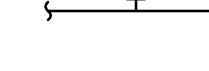
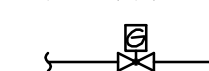

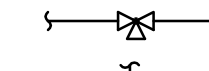
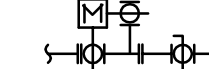
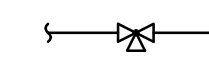

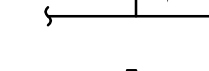

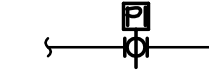
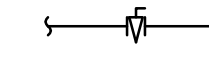
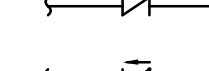
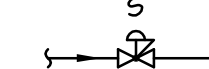
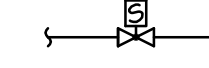
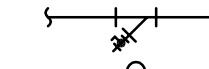

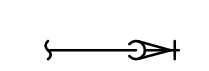
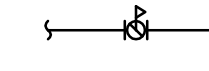

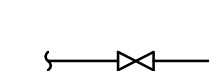
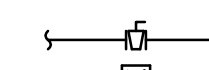
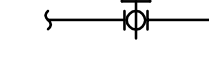

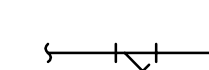


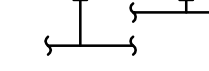






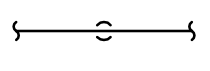
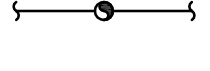



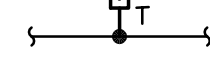
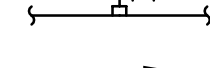


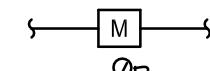
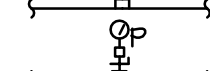
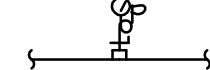
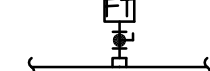



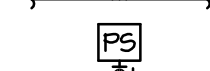
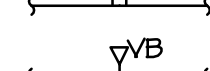




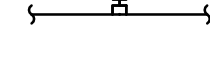

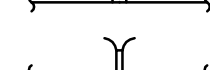
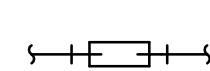

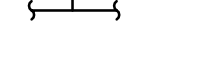

PLUMBING FIXTURE SCHEDULE									
MARK	MANUFACTURER / MODEL NUMBER	TRIM	ROUGH-IN				MOUNTING HEIGHT	REMARKS	MARK
			CW	HW	WASTE	VENT			
WC-1	ZURN Z5665-BWL1 1.6 GPF, TOP-SPUD ELONGATED RIM, SIPHON JET FLOOR MOUNTED WATER CLOSET	ZURN MODEL Z6000-WSI-YB-YC WITH 1.6 GPF FLUSH VALVE. MODEL Z5955SS-EL WHITE ELONGATED OPEN FRONT SEAT LESS COVER	1"	---	4"	2"	16 3/4" TO RIM	ADULT ADA WATER CLOSET	WC-1
LAV-1	KOHLER K-2032 GREENWICH 20-3/4" x 18-1/4" 4" CENTERS, WALL MOUNTED LAVATORY	ELKAY MODEL LKB737C BATTERY POWERED DECK MOUNTED FAUCET WITH CAST FIXED SPOUT CHROME, 17 GA. 2 PIECE ADJUSTABLE P-TRAP W/GRID DRAIN ASSEMBLY & ESCUTCHEON, 1/2" IPS x 3/8" O.D. ANGLE SUPPLY STOPS W/FLEXIBLE RISERS & 1/2" C.P. NIPPLES & S.S. ESCUTCHEONS	1/2"	1/2"	1 1/2"	1 1/2"	SEE DETAIL 1 THIS SHEET	J.R. SMITH FIG #0700-Z-16 LAVATORY CARRIER CONCEALED ARM SUPPORT. PROVIDE INSULATION ON WATER AND DRAIN PIPE. ALTERNATE: SLOAN MODEL SF-2150-4-BDM FAUCET.	LAV-1
LAV-2	AMERICAN STANDARD 9482.00 OVAYLN 19-1/4" x 15-3/4" ADA UNDERCOUNTER MOUNTED LAVATORY.	ELKAY MODEL LKB737C BATTERY POWERED DECK MOUNTED FAUCET WITH CAST FIXED SPOUT CHROME, 17 GA. 2 PIECE ADJUSTABLE P-TRAP WITH GRID ASSEMBLY, TAILPIECE AND ESCUTCHEON 1/2" IPS x 3/8" O.D. ANGLE SUPPLY STOPS WITH FLEXIBLE RISERS WITH 1/2" C.P. NIPPLES AND S.S. ESCUTCHEONS.	1/2"	1/2"	1-1/2"	1-1/2"	SEE DETAIL 1 THIS SHEET	PROVIDE INSULATION ON WATER AND DRAIN PIPE EQUAL TO PLUMBEREX TRAP GEAR MODEL #396.	LAV-2
SK-1	JUST MODEL US-1818-A, SINGLE COMPARTMENT SINK 18 GAUGE STAINLESS STEEL UNDERMOUNT THREE HOLE LEDGE WITH 7-1/2" DEEP BOWL.	CHICAGO FAUCETS MODEL 786-KKCP FAUCET WITH CERAMIC COMPONENTS, WRIST BLADE HANDLES; J-35 SS CUP STRAINER WITH TAILPIECE, 17 GAUGE P-TRAP AND BOX ESCUTCHEON, 1/2" ANGLE STOPS WITH RISERS.	1/2"	1/2"	2"	1-1/2"	SEE ARCH. DWGS		SK-1
SK-2	JUST MODEL USN-ADA-1818-A, SINGLE COMPARTMENT SINK 18 GAUGE STAINLESS STEEL UNDERMOUNT THREE HOLE LEDGE WITH 5" DEEP BOWL.	CHICAGO FAUCETS MODEL 786-KKCP FAUCET WITH CERAMIC COMPONENTS, WRIST BLADE HANDLES; J-35 SS CUP STRAINER WITH TAILPIECE, 17 GAUGE P-TRAP AND BOX ESCUTCHEON, 1/2" ANGLE STOPS WITH RISERS.	1/2"	1/2"	2"	1-1/2"	SEE ARCH. DWGS		SK-2
MB-1	MOP SERVICE BASIN FIAT MODEL MSB 2424 24"x24" MOLDED STONE, RECEPTOR WITH BRASS DRAIN BODY, STAINLESS STEEL STRAINER.	T&S BRASS MODEL B-0665-BSTR FAUCET WITH INTEGRAL VACUUM BREAKER, BUCKET HOOK, WALL BRACE AND 3/4" HOSE THREAD ON SPOUT. FIAT MODEL 832-AA HOSE 5/8" x 30" LONG HEAVY-DUTY CLOTH REINFORCED RUBBER HOSE WITH STAINLESS STEEL HOSE BRACKET WITH 3/4" HOSE COUPLING, FIAT MODEL 899-CC STAINLESS STEEL MOP HANGER WITH 3 TOOL GRIPS. SILICONE SEALANT	1/2"	1/2"	3"	1-1/2"	36" TO FAUCET		MB-1
EWC-1	HALSEY TAYLOR HACG8SS-NF ADA COOLER ELECTRIC WATER COOLER	STAINLESS STEEL CABINET WITH FRON AND SIDE PUSHBAR DOUBLE BUBBLERS; 8.0 GPH CAPACITY COOLED TO 50°F WHEN AMBIENT AIR TEMPERATURE IS 90°F, 120 V.	1/2"	---	2"	1-1/2"	ADULT ADA HEIGHT	INCLUDE GLASS FILLER KIT - 96852CA	EWC-1

**NOTES:** COMPRESSION FIT DESIGN.  
 1. BASIS OF DESIGN IS SHOWN. SEE SPECIFICATIONS FOR ALTERNATE MANUFACTURERS.  
 2. ALL P-TRAPS SHALL BE 17 GAUGE CHROME PLATED WITH CLEANOUT AND CHROME PLATED BOX ESCUTCHEON.  
 3. SINK AND LAVATORY SUPPLIES SHALL BE 1/2" IPS x 1/2" O.D. (SINK) AND 1/2" IPS x 3/8" O.D. (LAV) LOOSE KEY QUARTER TURN BALL VALVE ANGLE STOPS WITH FLEXIBLE RISERS AND 1/2" IPS CHROME PLATED NIPPLES AND STAINLESS STEEL ESCUTCHEONS. KEY STOPS AND STOP COCKS SHALL NOT BE  
 4. ALL VITREOUS CHINA FIXTURES SHALL BE WHITE.  
 5. SINK FAUCETS TO HAVE HOT & COLD WATER INDEX AND HAVE VANDAL RESISTANT FEATURE, UNLESS NOTED OTHERWISE.  
 6. VISIBLE PARTS OF BRASS FIXTURES AND ACCESSORIES SHALL BE HEAVILY CHROME PLATED.


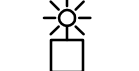



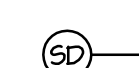

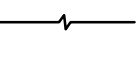




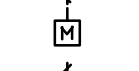




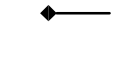






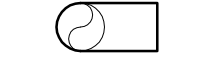

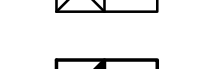


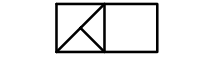




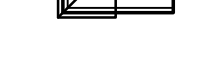
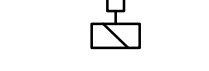



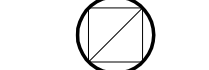

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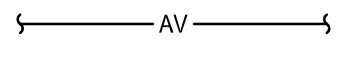
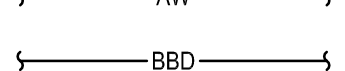
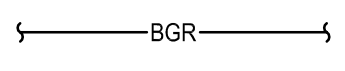
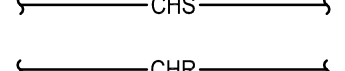
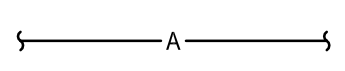
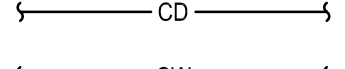
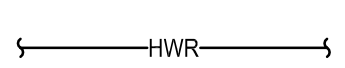
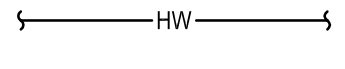
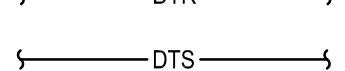
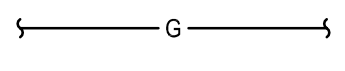

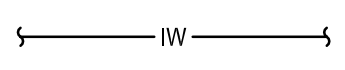
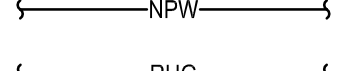
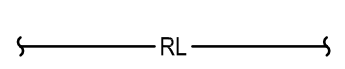
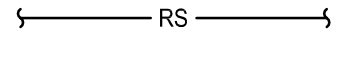
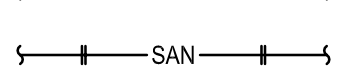
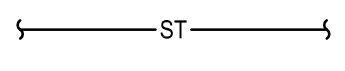
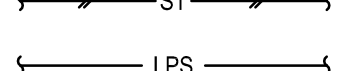
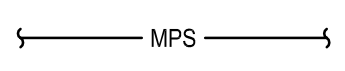
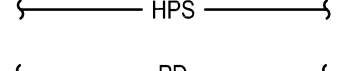

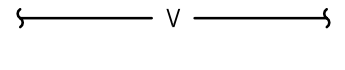
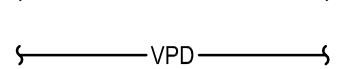
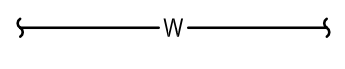






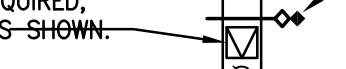


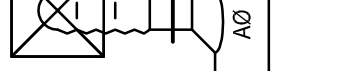

## PIPING SYMBOLS

 AUTOMATIC AIR VENT  MANUAL AIR VENT  MANUAL BALANCE VALVE  2-WAY GEAR DRIVE VALVE  2-WAY MOTORIZED VALVE  3-WAY BLINDER VALVE (PLUMBING)  3-WAY MOTORIZED VALVE (MECHANICAL)  3-WAY BY-PASS VALVE (PLUMBING)  BALL VALVE  PRESSURE RELIEF VALVE  BUTTERFLY VALVE  PNEUMATIC MODULATING BUTTERFLY VALVE  PRESSURE INDEPENDENT CONTROL VALVE  GAS COCK  CHECK VALVE  SPRING LOAD CHECK VALVE  PRESSURE REGULATING VALVE W/ FLOW DIRECTION  SOLENOID VALVE  STRAINER WITH BLOW DOWN  2-WAY VALVE (PNEUMATIC)  AUTOMATIC FLOW LIMITING VALVE  VALVE IN RISER  GAS PRESSURE REGULATING VALVE  DOMESTIC HWR FLOW CONTROL VALVE  GLOBE VALVE  GATE VALVE  BALANCE PLUG VALVE  MOTORIZED BUTTERFLY VALVE  HOSE BIBB / WALL HYDRANT  PIPING REDUCER  STRAINER  UNION  FLEX CONNECTION  DIFFERENTIAL PRESSURE TRANSMITTER	 PIPING TEE DOWN  PIPING TURN UP  PIPING TURN DOWN  PIPE CAP  TEMPERATURE TRANSMITTER W/ THERMO-WELL  TEMPERATURE GAUGE W/ THERMO-WELL  PT PORT  SLOPE ARROW  FLOOR DRAIN  FLANGE  WATER/GAS METER  PRESSURE GAGE, WITH SHUTOFF COCK  PRESSURE GAGE, WITH SNUBBER AND SHUTOFF COCK  PRESSURE GAGE, WITH PIGTAIL AND SHUTOFF COCK  FLOW TRANSMITTER W/ FULL PORTED BALL VALVE FOR EXTRACTION  PRESSURE TRANSDUCER WITH SHUT-OFF COCK  TOTAL DISSOLVED SOLIDS SENSOR  PH SENSOR  PRESSURE SWITCH  VACUUM BREAKER  FLOAT SWITCH  FLOW METER  LEVEL CONTROLLER  LEVEL SWITCH  STRAP-ON/OUTSIDE AIR TEMPERATURE SENSOR  FLOW SWITCH  PITOT DEVICE  EXPANSION JOINT  DIFFERENTIAL PRESSURE SWITCH
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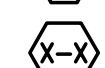



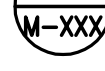


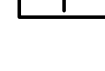


## HVAC SYMBOLS

 AIRFLOW ARROW.  ALARM.  CO2 SENSOR.  HUMIDISTAT.  THERMOSTAT.  STATIC PRESSURE SENSOR.  SMOKE DETECTOR.  ACCESS DOOR.  SINGLE OR DOUBLE LINE RECTANGULAR DUCT CONTINUATION.  SINGLE LINE ROUND DUCT CONTINUATION.  CFM TAG.  DOUBLE LINE ROUND DUCT CONTINUATION.  MOTORIZED DAMPER (ELEVATION).  MOTORIZED DAMPER.  BACKDRAFT DAMPER.  VOLUME DAMPER.  FIRE DAMPER (VERTICAL).  SMOKE DAMPER (VERTICAL).  FIRE-SMOKE DAMPER (VERTICAL).  FIRE DAMPER (HORIZONTAL).  SMOKE DAMPER (HORIZONTAL).  FIRE-SMOKE DAMPER (HORIZONTAL).  SOUND ATTENUATOR.	 LONG 90° ROUND ELBOW (UP).  LONG 90° ROUND ELBOW (DOWN).  S/A LONG 90° RECTANGULAR ELBOW (UP).  S/A LONG 90° RECTANGULAR ELBOW (DOWN).  R/A LONG 90° RECTANGULAR ELBOW (UP).  R/A LONG 90° RECTANGULAR ELBOW (DOWN).  E/A LONG 90° RECTANGULAR ELBOW (UP).  E/A LONG 90° RECTANGULAR ELBOW (DOWN).  S/A SLOT DIFFUSER.  S/A DIFFUSER W/ FLEX DUCT.  24x24 R/A GRILLE.  24x24 R/A GRILLE W/ RECTANGULAR INTERNALLY INSULATED BOOT.  VVT.  EXHAUST FAN HOOD.  EXHAUST FAN IN FLOOR PLAN (SHOWING EXHAUST FAN HOOD ON ROOF ABOVE).  EXHAUST FAN ON ROOF PLAN (SHOWING EXHAUST DUCT IN FLOOR SPACE BELOW).  O/A INTAKE DUCT IN FLOOR PLAN.  O/A ROOF PLAN (SHOWING EXHAUST DUCT IN FLOOR SPACE BELOW).
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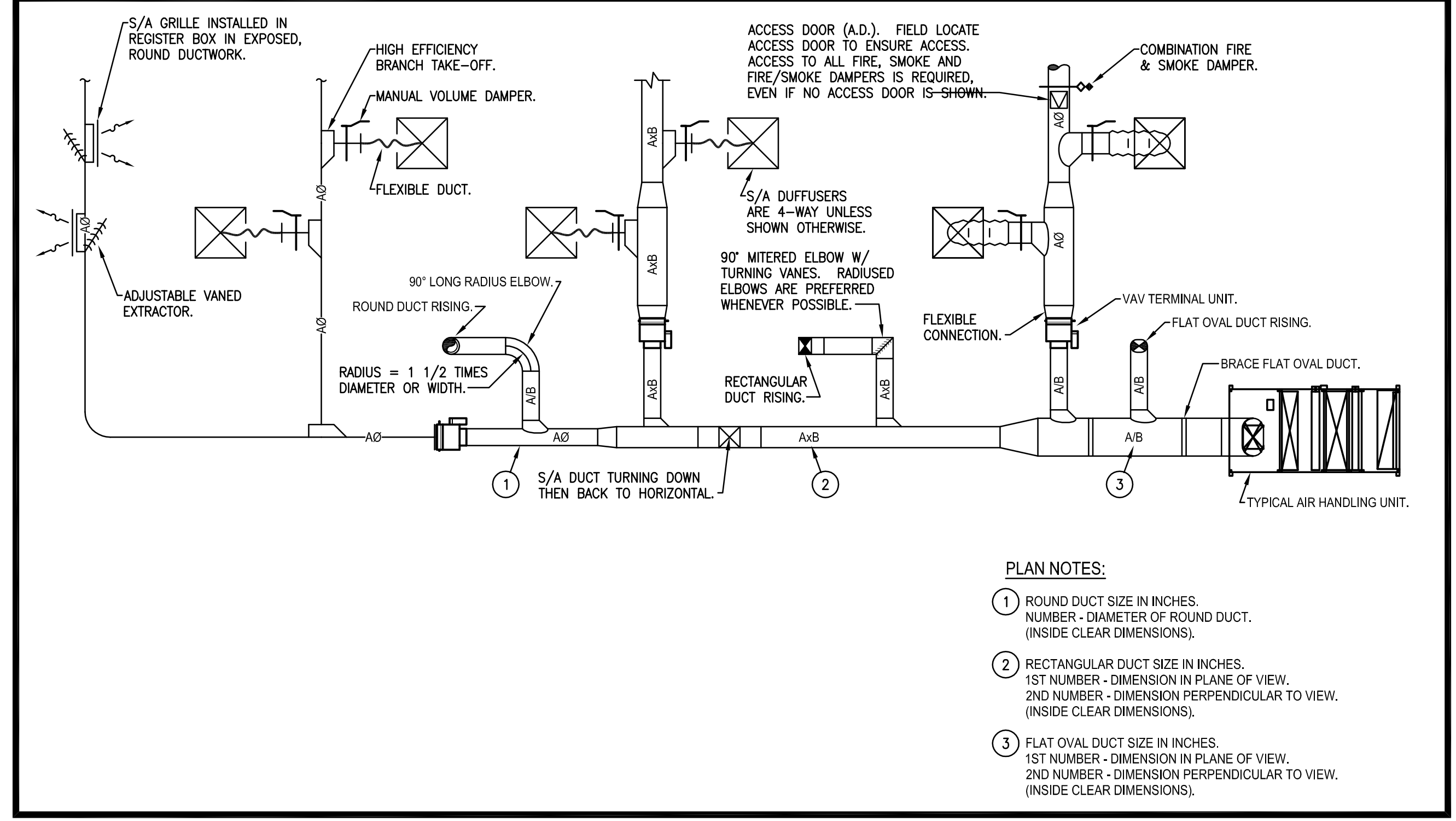
## LINE TYPES

 AV  AW  BBD  BGR  CHS  CHR  A  CD  CW  HWR  HW  DTR  DTS  G  HWS  HWR  IW  NPW  RHG  RL  RS  SAN  SAN  ST  ST  LPS  MPS  HPS  PD  STMR  V  VAC  VPD  W  GW	ACID VENT ACID WASTE BOILER BLOW DOWN BOILER GRAVITY RETURN CHILLED WATER SUPPLY CHILLED WATER RETURN COMPRESSED AIR CONDENSATE DRAIN DOMESTIC COLD WATER SUPPLY DOMESTIC HOT WATER RETURN DOMESTIC HOT WATER SUPPLY DUAL TEMPERATURE RETURN DUAL TEMPERATURE SUPPLY GAS HEATING HOT WATER SUPPLY HEATING HOT WATER RETURN INDIRECT WASTE NON-POTABLE WATER REFRIGERANT HOT GAS LINE REFRIGERANT LIQUID LINE REFRIGERANT SUCTION LINE SANITARY SOIL ABOVE GRADE SANITARY SOIL BELOW GRADE STORM SEWER ABOVE GRADE STORM SEWER BELOW GRADE LOW PRESSURE STEAM MEDIUM PRESSURE STEAM HIGH PRESSURE STEAM PUMPED DISCHARGE STEAM RETURN VENT VACUUM SERVICE VACUUM PUMP DISCHARGE WASTE GREASE WASTE
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## NOTE SYMBOLS

	NEW WORK PLAN NOTE
	DEMOLITION PLAN NOTE
	LOUVER DESIGNATION
	VALVE DESIGNATION
	CONTROLS NOTE
	REVISION PLAN NOTE
	EQUIPMENT TAG
	DETAIL NOTE DESIGNATION
	POINT OF NEW CONNECTION
	POINT OF DISCONNECTION (SHADED PORTION INDICATES EXISTING TO REMAIN)
	ROOM NAME AND NUMBER DESIGNATION
	DETAIL TITLE DESIGNATION

## SHEET METAL CONNECTION STANDARDS

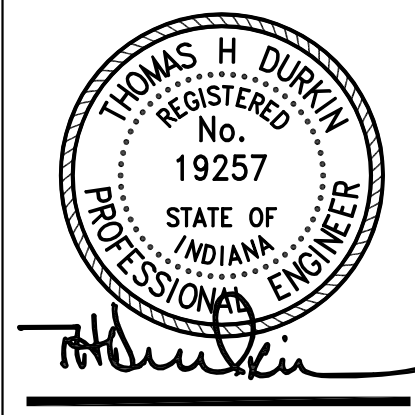


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Drawn	SDA
Checked By	SDA
Project No.	1723.02
Date	12/8/17

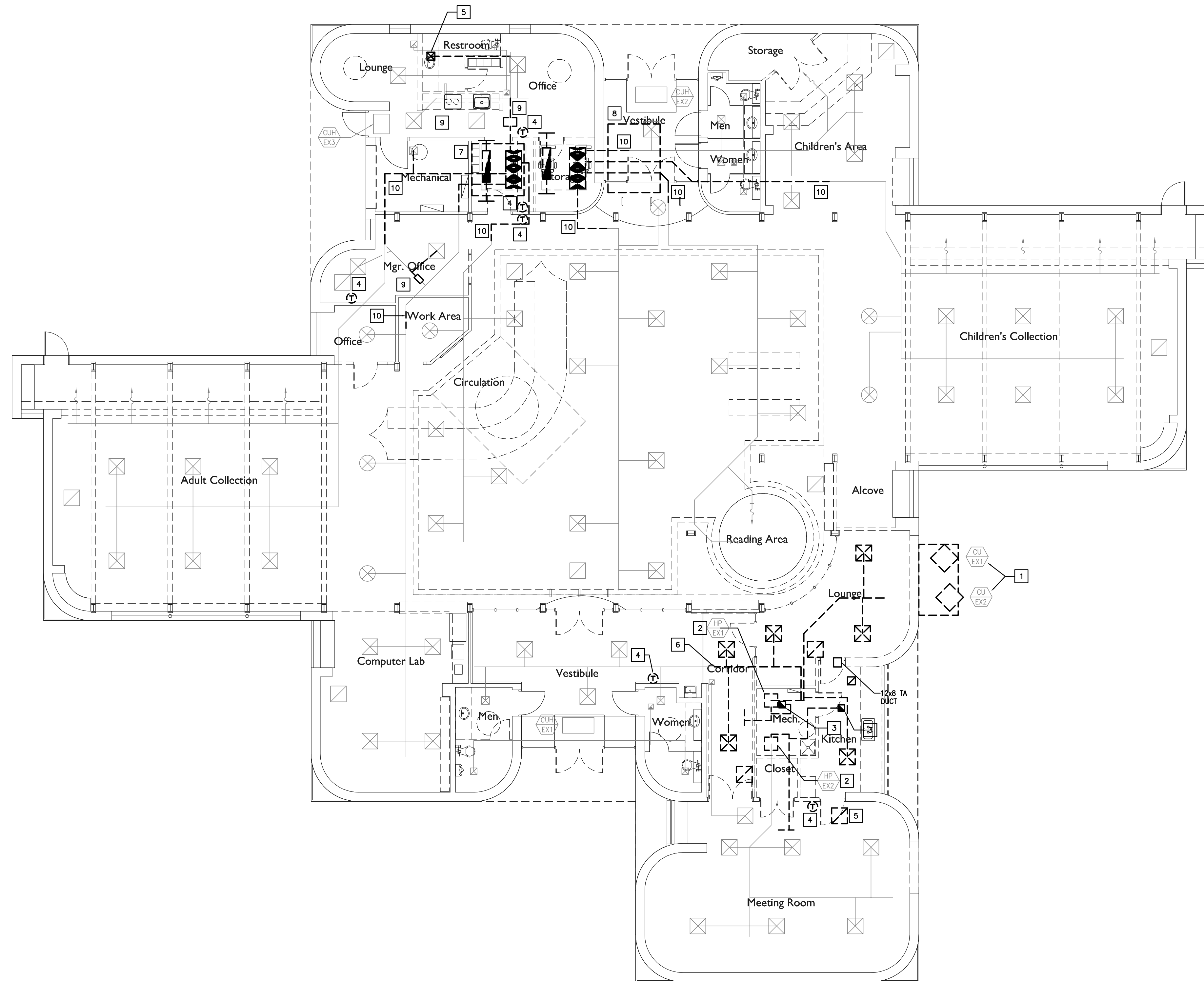


**DEMOLITION GENERAL NOTES:**

- ALL EXISTING WALLS TO REMAIN THAT ARE AFFECTED BY MECHANICAL DEMOLITION WORK SHALL BE PATCHED AND PAINTED TO MATCH SURROUNDINGS.
- CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES.
- PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE JOB SITE TO VERIFY EXISTING CONDITIONS, AND PRICE WORK ACCORDINGLY.
- ALL GRILLES, REGISTERS, AND DIFFUSERS THAT ARE EXISTING TO REMAIN THROUGHOUT THE BUILDING SHALL BE REMOVED, CLEANED, AND REINSTALLED. WHERE SHOWN ON NEW WORK, THEY SHALL BE BALANCED TO CFM'S INDICATED ON PLANS.
- BRING ALL EXISTING CONDITIONS THAT DIFFER FROM THAT SHOWN ON THE PLANS TO THE ENGINEER'S ATTENTION PRIOR TO WORK IN THE ASSOCIATED AREA.
- ON DEMOLITION DRAWINGS, LINEWORK SHOWN BOLD AND DARK IS MECHANICAL EQUIPMENT/PIPING TO BE REMOVED. LINEWORK SHOWN "SCREENED" BACK GROUND INDICATES EXISTING CONDITIONS TO REMAIN AND SHOULD BE USED FOR REFERENCE ONLY. AND MAY INDICATE NONEXISTENT OR INACCURATE CONDITIONS.
- EXISTING DUCTWORK ROUTINGS SHOWN ON PLANS MAY VARY FROM ACTUAL CONDITIONS. FIELD VERIFY AS REQUIRED.

**DEMOLITION PLAN NOTES:**

- DEMOLISH EXISTING CONDENSING UNITS (TWO), ASSOCIATED CONTROLS, ASSOCIATED PIPING, AND CONCRETE PAD.
- DEMOLISH EXISTING HP AND ASSOCIATED CONTROLS. DEMOLISH ASSOCIATED DUCTWORK TO POINTS SHOWN ON DRAWINGS.
- DEMOLISH EXISTING OUTSIDE AIR HOOD ON ROOF AND ASSOCIATED DUCTWORK AND CONTROLS. CAP EXISTING ROOF CURB; SEE DETAIL 5-M201.
- REMOVE THERMOSTAT AND ASSOCIATED WIRING. FURNISH AND INSTALL A STAINLESS STEEL COVER PLATE AT ALL ABANDONED THERMOSTAT LOCATIONS.
- REMOVE EXISTING DIFFUSER. CLEAN, REINSTALL, AND REBALANCE WHERE INDICATED ON NEW WORK PLANS.
- DEMOLISH DUCTWORK UPSTREAM FROM THIS POINT. REMAINDER OF DUCTWORK DOWNSTREAM SHALL REMAIN FOR RECONNECTION IN NEW WORK.
- BASE BID OR ALTERNATE #8B: DEMOLISH EXISTING ROOFTOP UNIT AND ASSOCIATED PIPING AND CONTROLS. EXISTING ROOF CURB SHALL BE REUSED. IF ALTERNATE #8B IS NOT ACCEPTED, DO NOT DEMOLISH ASSOCIATED DUCTWORK DOWNSTREAM OF DUCT DROP FROM EXISTING UNIT. SEE NEW WORK.
- ALTERNATE #8A OR #8C: DEMOLISH EXISTING ROOFTOP UNIT AND ASSOCIATED PIPING AND CONTROLS. EXISTING ROOF CURB AND UNIT SUPPORT RAILS SHALL BE REUSED. SEE NEW WORK. IF NEITHER ALTERNATE IS ACCEPTED, THIS UNIT AND ALL ASSOCIATED DUCTWORK AND CONTROLS SHALL BE LEFT AS IS. IF ALTERNATE #8A IS ACCEPTED, DO NOT DEMOLISH ASSOCIATED DUCTWORK DOWNSTREAM OF DUCT DROP FROM EXISTING UNIT. SEE NEW WORK. NOTE: EXISTING UNIT HAS HORIZONTAL DUCT ON THE ROOF FROM UNIT TO EXISTING ROOF PENETRATION.
- ALTERNATE #8B: DEMOLISH EXISTING DUCT HEATER AND ASSOCIATED CONTROLS AND WIRING.
- DEMOLISH DUCT AS NEEDED TO INSTALL NEW VAV BOX. SEE NEW WORK SHEET. SEE ALSO NOTES 7 AND 8 THIS SHEET.



**MECHANICAL DEMOLITION WORK**  
MD-101 SCALE 1/8" = 1'-0"

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PLOTSCALE: 1/8" = 1'-0"

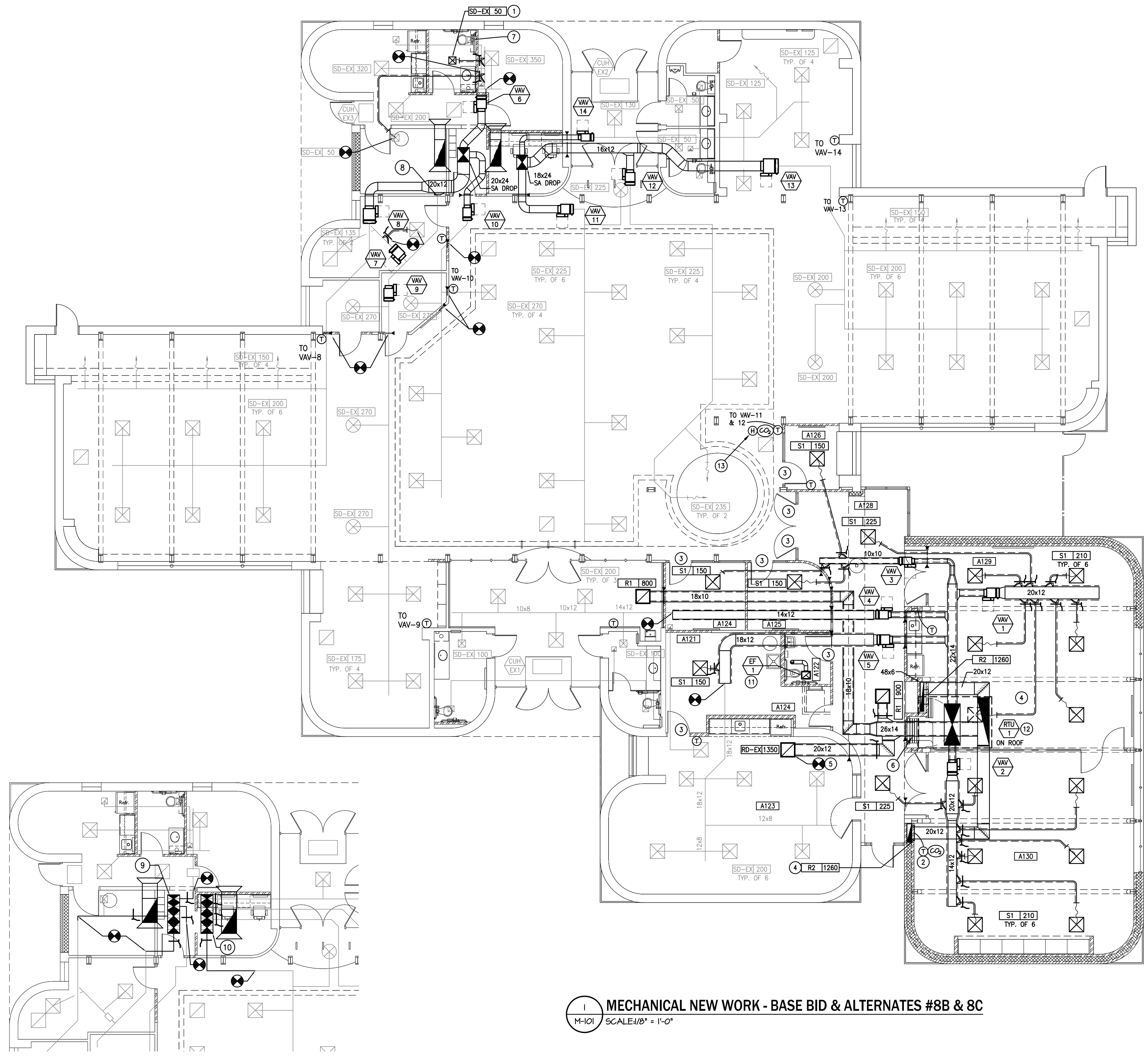


**NEW WORK GENERAL NOTES:**

- CONTRACTOR'S BID SHALL PROVIDE A COMPLETE AND WORKABLE SYSTEM.
- THIS CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES.
- NEW WORK IS SHOWN BY DARK LINE WORK. EXISTING TO REMAIN IS SHOWN "SCREENED" AND SHOULD BE USED FOR REFERENCE ONLY, AND MAY INDICATE NONEXISTENT OR INACCURATE CONDITIONS.
- DUCTWORK BRANCHES LEADING TO DIFFUSERS SHALL BE SIZED ACCORDING TO ASSOCIATED DIFFUSER NECK SIZE. REFER TO AIR INLET & OUTLET SCHEDULE ON MECHANICAL SCHEDULES SHEET FOR ALL DIFFUSER NECK SIZES.
- WORK SCOPE INCLUDES BALANCING OF AIR SYSTEMS TO CFM'S INDICATED ON PLANS.
- LOCATE ALL UNITS TO ENSURE ACCESS TO FILTER.
- PATCH AND PAINT ANY WALL AFFECTED BY NEW WORK TO MATCH EXISTING SURROUNDINGS.
- r/D = 1.5 DUCT ELBOWS ARE PREFERRED ON SUPPLY DUCT AND SHALL BE INSTALLED WHEREVER SPACE PERMITS.
- ALL GRILLES, REGISTERS, AND DIFFUSERS THAT ARE EXISTING TO REMAIN THROUGHOUT THE BUILDING SHALL BE REMOVED, CLEANED, AND REINSTALLED. WHERE SHOWN ON NEW WORK, THEY SHALL BE BALANCED TO CFM'S INDICATED ON PLANS. REPLACE ALL FLEX DUCT CONNECTIONS, MATCH EXISTING SIZES.
- EXISTING DUCTWORK TO REMAIN SHALL BE CLEANED. SEE SPECIFICATIONS.
- VAV'S 6-14 TYPICAL: VAV'S SHALL BE CONNECTED TO EXISTING DUCTWORK AT THE INLET AND/OR THE OUTLET (SEE NEW WORK PLANS). PROVIDE TRANSITIONS AS REQUIRED.

**REFERENCE PLAN NOTES:**

- 1 CLEAN AND REBALANCE EXISTING DIFFUSER. RELOCATE AS SHOWN. RECONNECT TO EXISTING DUCTWORK. FIELD VERIFY AND REUSE ALL EXISTING DUCTWORK IF POSSIBLE. PROVIDE NEW DUCTWORK IF NECESSARY.
- 2 INSTALL T-STAT AND CO2 SENSOR AT 40" AFF.
- 3 UNDERCUT INDICATED DOOR 3/4".
- 4 BOTTOM OF RETURN GRILLE SHALL BE 8" AFF.
- 5 REBALANCE EXISTING RETURN GRILLE TO 1350 CFM. INSTALL PLENUM ON TOP OF GRILLE AND CONNECT NEW DUCTWORK AS INDICATED.
- 6 COORDINATE DUCT WITH MOVABLE WALL PARTITION; SEE SHEET A-902.
- 7 CLEAN AND REINSTALL EXISTING EXHAUST GRILLE.
- 8 CONNECT NEW DUCT TAP TO EXISTING DUCT BRANCH. MATCH EXISTING SIZE.
- 9 BASE BID: CONNECT EXISTING MULTIZONE DUCT BRANCHES TO NEW DUCT DROP FROM RTU-2B. V.I.F. AMOUNT OF DUCTWORK REQUIRED TO BE DEMOLISHED AND NEW DUCTWORK TO BE ADDED TO ACCOMPLISH THIS.
- 10 ALTERNATE #8A: CONNECT EXISTING MULTIZONE DUCT BRANCHES TO NEW DUCT DROP FROM RTU-3B. V.I.F. AMOUNT OF DUCTWORK REQUIRED TO BE DEMOLISHED AND NEW DUCTWORK TO BE ADDED TO ACCOMPLISH THIS.
- 11 ALTERNATE #4: INSTALL EF-1 AND ASSOCIATED CONTROLS AND DUCTWORK.
- 12 BASE BID: RTU-1 AND ALL ASSOCIATED DUCTWORK, TERMINAL UNITS, AND CONTROLS SHALL BE INSTALLED.
- 13 HUMIDISTAT SHALL BE INCLUDED ONLY IF MULTIZONE RTU OPTION(S) ARE SELECTED (I.E. RTU-2B AND/OR RTU-3B).



1 MECHANICAL NEW WORK - BASE BID & ALTERNATES #8B & 8C  
SCALE: 1/8" = 1'-0"

2 PARTIAL MECHANICAL NEW WORK - BASE BID & ALTERNATE #8A  
SCALE: 1/8" = 1'-0"

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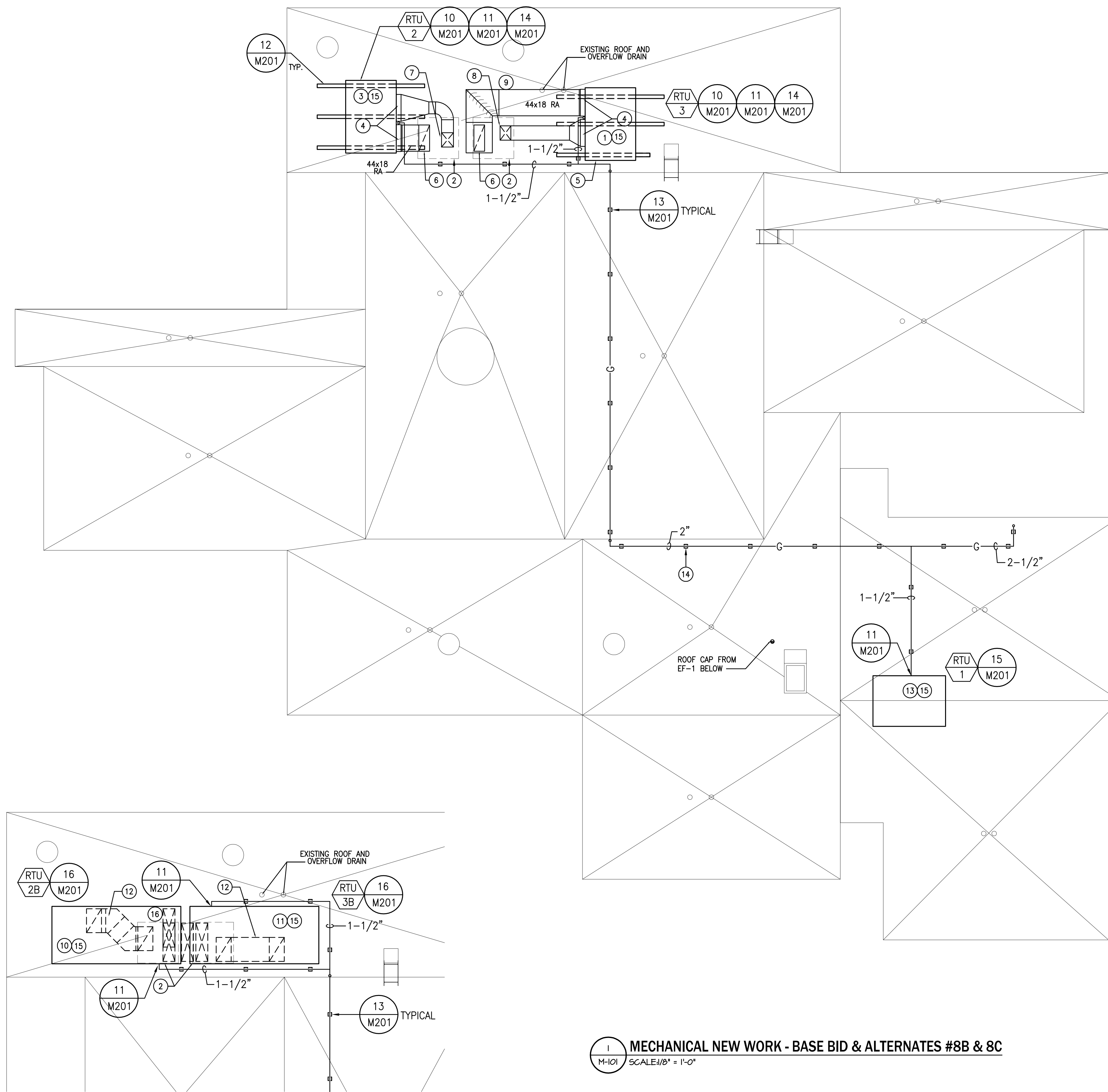


PLOTSCALE:1"=1'

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**2 PARTIAL MECHANICAL NEW WORK - BASE BID & ALTERNATE #8A**  
M-101 SCALE:1/8" = 1'-0"



**1 MECHANICAL NEW WORK - BASE BID & ALTERNATES #8B & 8C**  
M-101 SCALE:1/8" = 1'-0"

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- DUCTWORK BRANCHES LEADING TO DIFFUSERS SHALL BE SIZED ACCORDING TO ASSOCIATED DIFFUSER NECK SIZE; REFER TO AIR INLET & OUTLET SCHEDULE ON MECHANICAL SCHEDULES SHEET FOR ALL DIFFUSER NECK SIZES.
- WORK SCOPE INCLUDES BALANCING OF AIR SYSTEMS TO CFM'S INDICATED ON PLANS.
- LOCATE ALL UNITS TO ENSURE ACCESS TO FILTER.
- PATCH AND PAINT ANY WALL AFFECTED BY NEW WORK TO MATCH EXISTING SURROUNDINGS.
- r/D = 1.5 DUCT ELBOWS ARE PREFERRED ON SUPPLY DUCT AND SHALL BE INSTALLED WHEREVER SPACE PERMITS.
- ALL GRILLES, REGISTERS, AND DIFFUSERS THAT ARE EXISTING TO REMAIN THROUGHOUT THE BUILDING SHALL BE REMOVED, CLEANED, AND REINSTALLED. WHERE SHOWN ON NEW WORK, THEY SHALL BE BALANCED TO CFM'S INDICATED ON PLANS.
- EXISTING DUCTWORK TO REMAIN SHALL BE CLEANED. SEE SPECIFICATIONS.
- PAINT EXPOSED GAS PIPING AT METER AND GAS PIPING ON ROOF PER SPEC SECTION 15194.

**REFERENCE PLAN NOTES:**

- 1 RTU-3 AND ASSOCIATED WORK SHALL ONLY BE INSTALLED IF ALTERNATE #8C IS ACCEPTED. RTU-3 SHALL REUSE EXISTING SUPPORT RAILS FOR RTU IN THIS LOCATION. V.I.F. EXACT SIZE AND LOCATION. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO MATCH EXISTING SIZE AND SPACING OF RAILS.
- 2 LOCATION OF EXISTING CHASES; 68.5"x68.5". VERIFY EXACT SIZE AND LOCATION IN FIELD.
- 3 RTU-2 AND ASSOCIATED WORK SHALL ONLY BE INSTALLED IF ALTERNATE #8B IS ACCEPTED. PROVIDE RTU-2 WITH SUPPORT RAILS, LENGTH AS REQ'D TO EXCEED UNIT WIDTH, AT 5' SPACING. V.I.F. NUMBER OF SUPPORT RAILS REQUIRED. RAIL DIMENSIONS SHALL MATCH DIMENSIONS OF EXISTING RAILS OF ADJACENT NORTHEAST RTU. MAINTAIN MINIMUM 10' CLEARANCE FROM ROOF EDGES.
- 4 MATCH INLET/OUTLET SIZE ON INSULATED HORIZONTAL DISCHARGE CURB.
- 5 ENSURE MINIMUM 2'6" CLEARANCE FROM WALL. ADJUST UNIT LOCATION AND TRANSITION DUCT AS REQUIRED. V.I.F.
- 6 44x18 RA DOWN THROUGH EXISTING ROOF CURB.
- 7 18x24 SA DUCT DOWN THROUGH EXISTING ROOF CURB.
- 8 24x18 SA DUCT DOWN THROUGH EXISTING ROOF CURB.
- 9 BOTTOM OF RA DUCTWORK SHALL NOT BE BELOW SNOW LINE OF ROOF.
- 10 RTU-2B AND ASSOCIATED WORK SHALL BE INSTALLED UNDER BASE BID CONDITIONS. PROVIDE CURB ADAPTOR. RETURN AND SUPPLY DUCTWORK SHALL OFFSET INSIDE CURB AS NECESSARY TO DROP THROUGH EXISTING ROOF PENETRATION WHERE INDICATED. SEE MAIN FLOOR PLAN.
- 11 RTU-3B AND ASSOCIATED WORK SHALL BE INSTALLED ONLY IF ALTERNATE #8A IS ACCEPTED. PROVIDE CURB ADAPTOR. RETURN AND SUPPLY DUCTWORK SHALL OFFSET INSIDE CURB AS NECESSARY TO DROP THROUGH EXISTING ROOF PENETRATION WHERE INDICATED. SEE MAIN FLOOR PLAN.
- 12 OFFSET RETURN DUCTWORK INSIDE CURB AS NECESSARY TO REACH EXISTING ROOF PENETRATION.
- 13 RTU-1 AND ALL ASSOCIATED WORK SHALL BE COMPLETED UNDER BASE BID.
- 14 LOCATE SUPPORTS PER SPEC SECTION "HANGERS AND SUPPORTS."
- 15 ROUTE CONDENSATE TO NEAREST ROOF DRAIN.
- 16 OFFSET SUPPLY DUCTWORK INSIDE NEW ROOF CURB TO EXISTING ROOF PENETRATION.

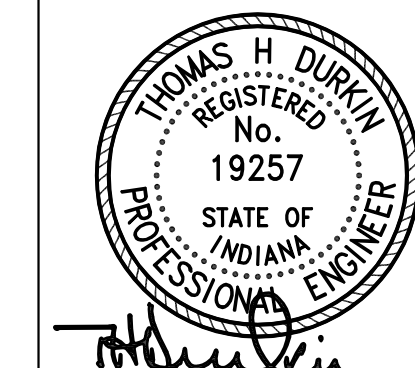
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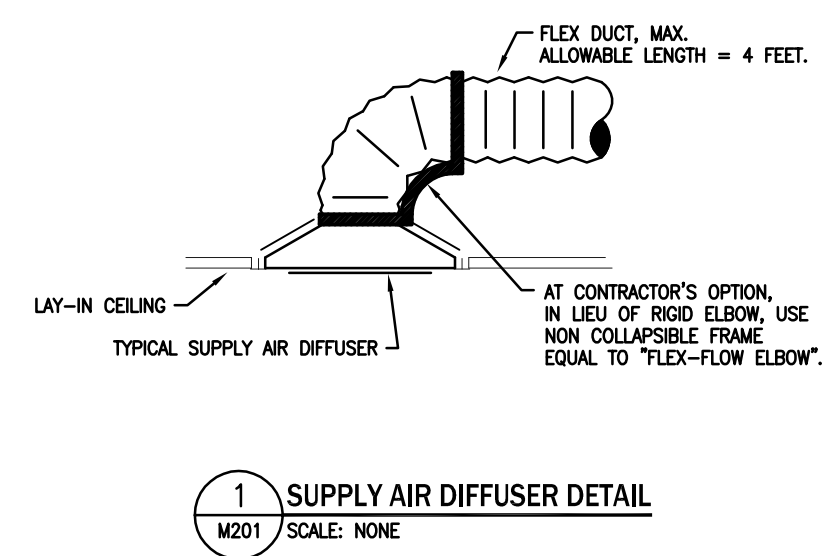
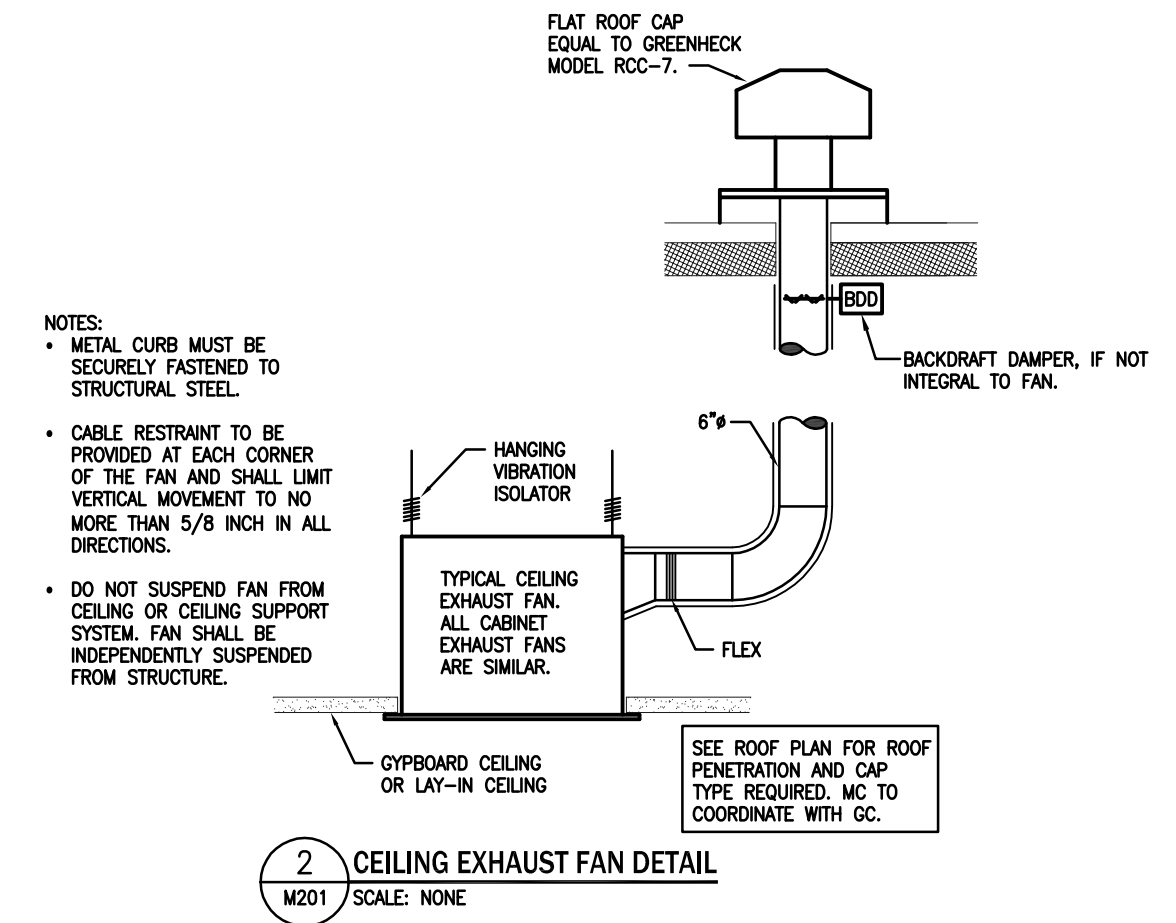
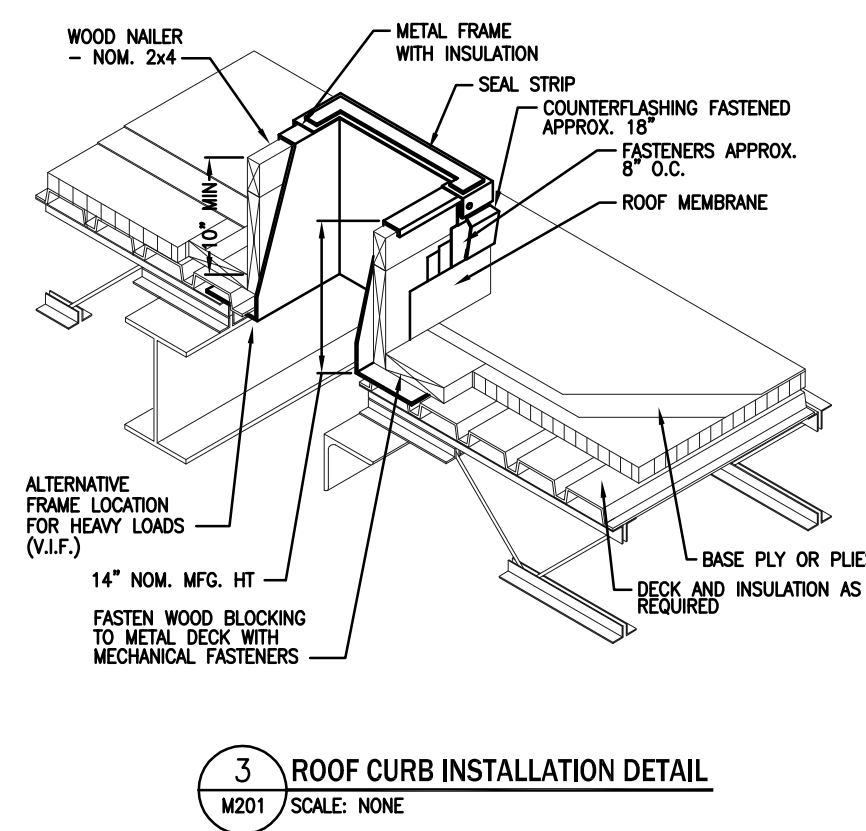
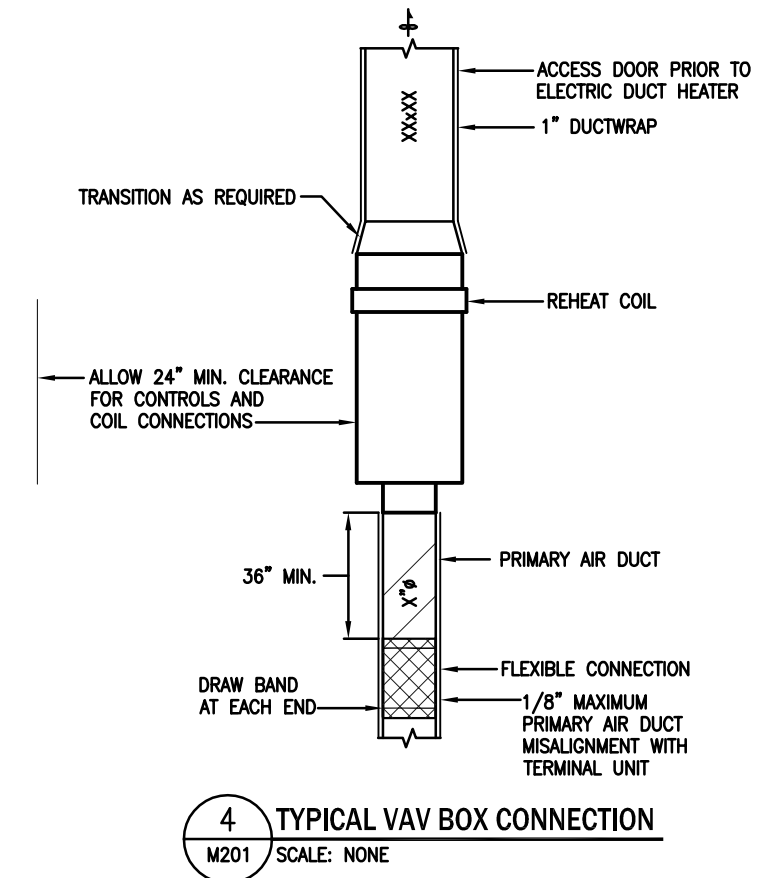
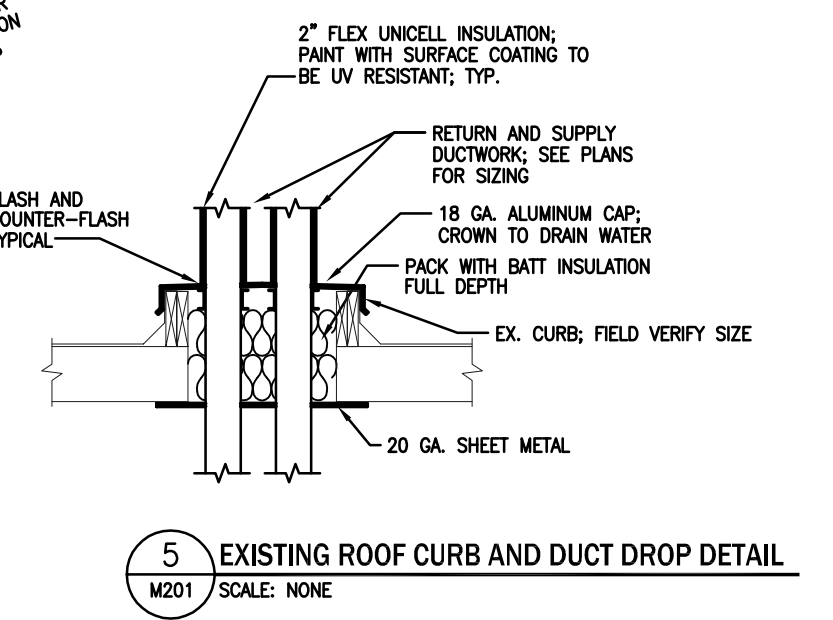
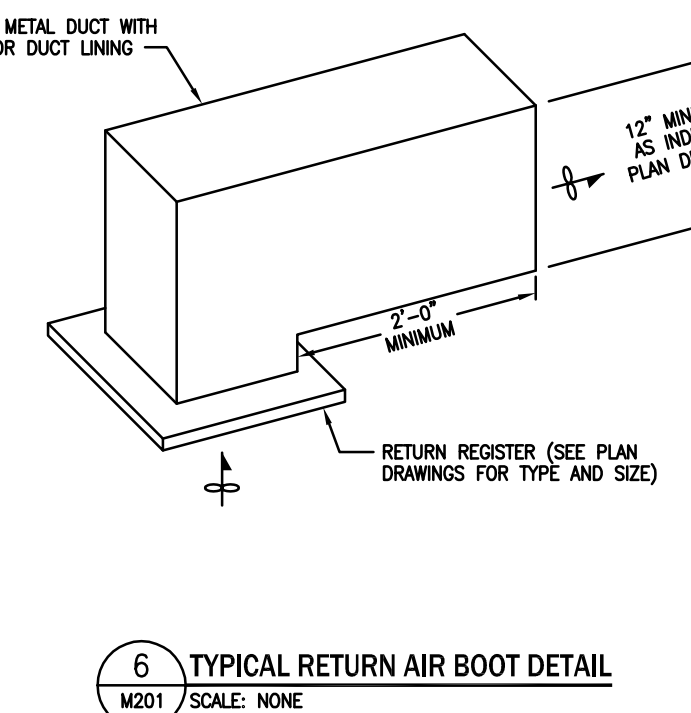
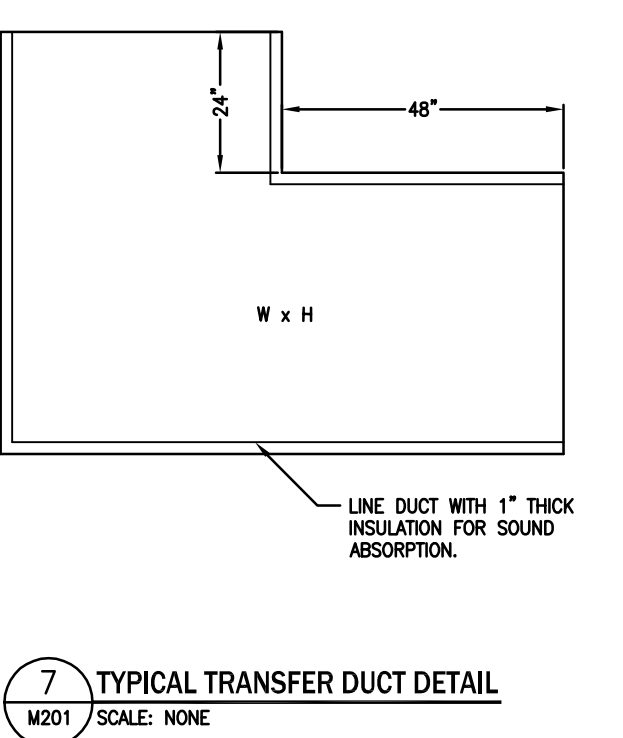
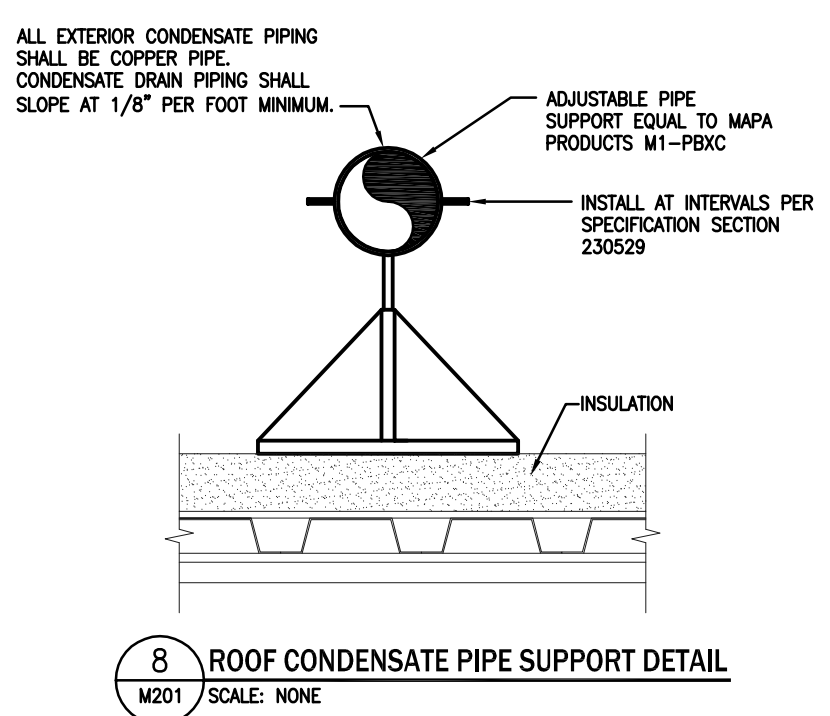
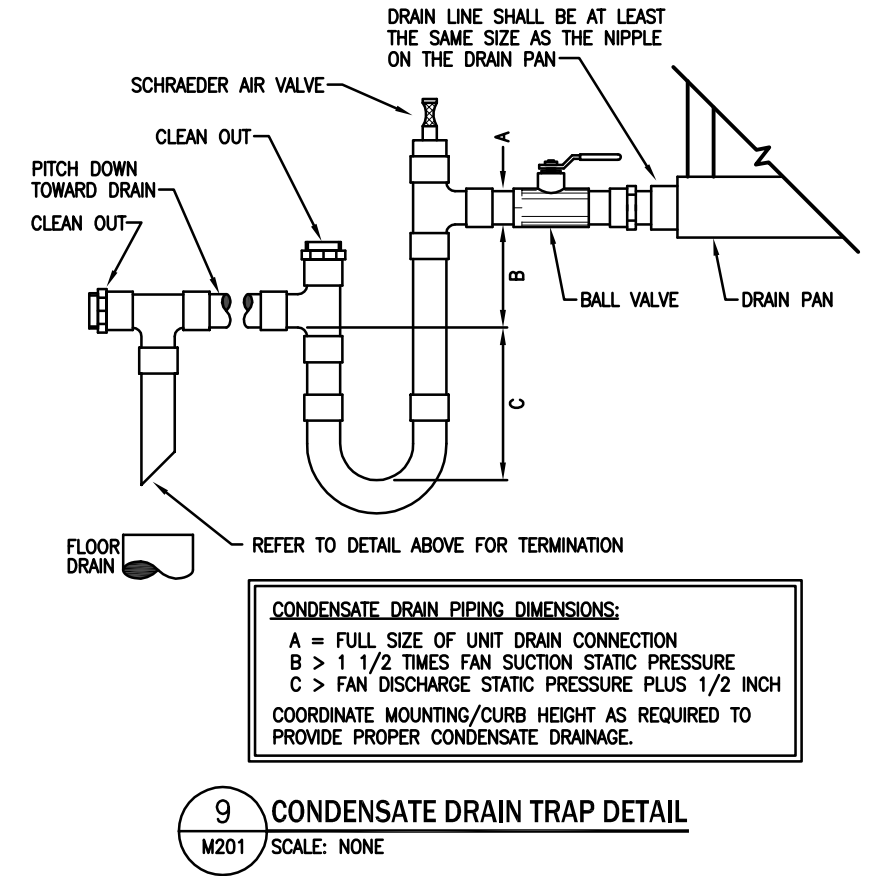
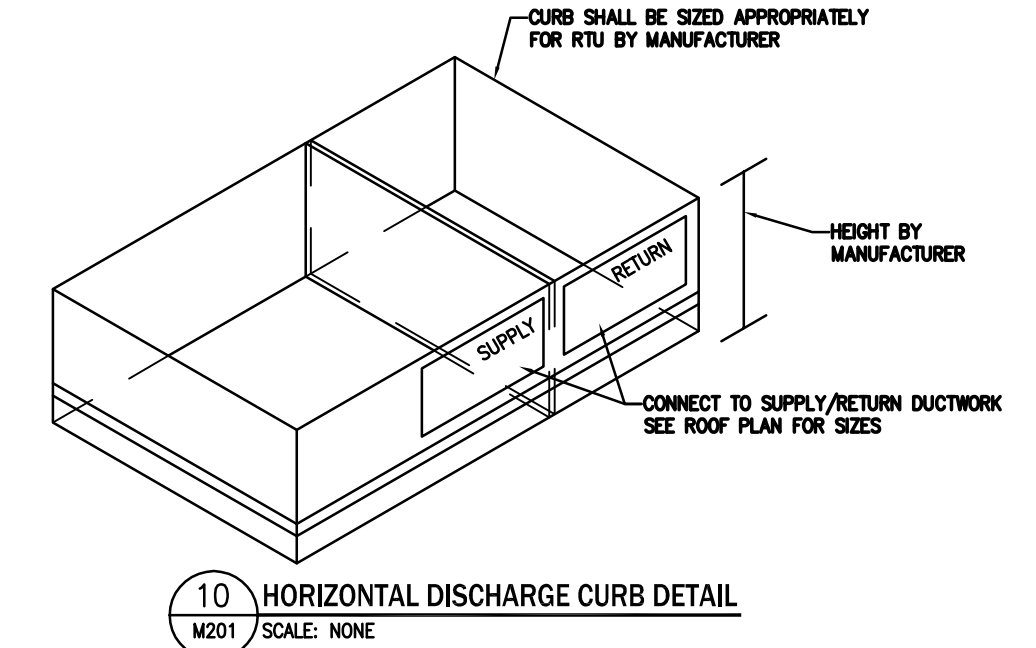
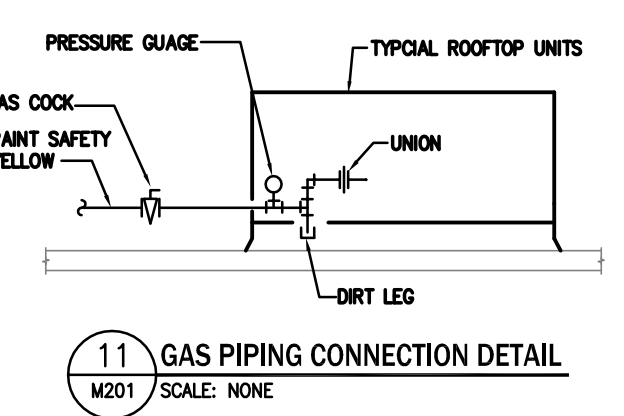
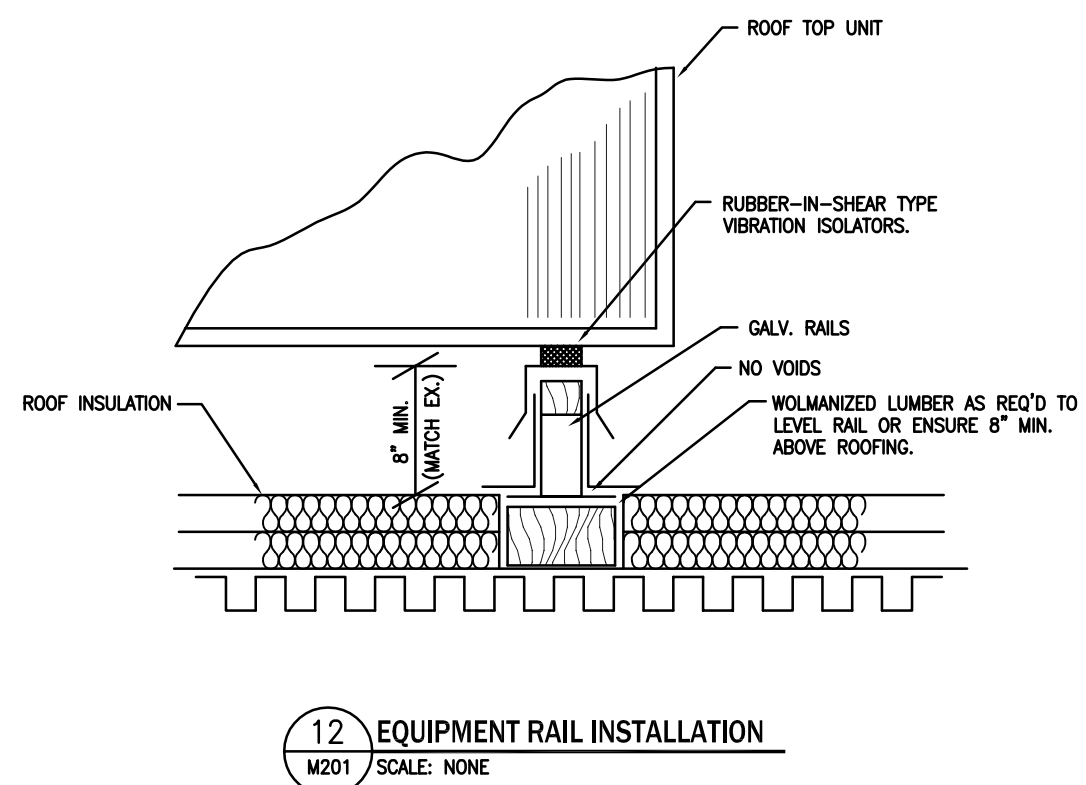
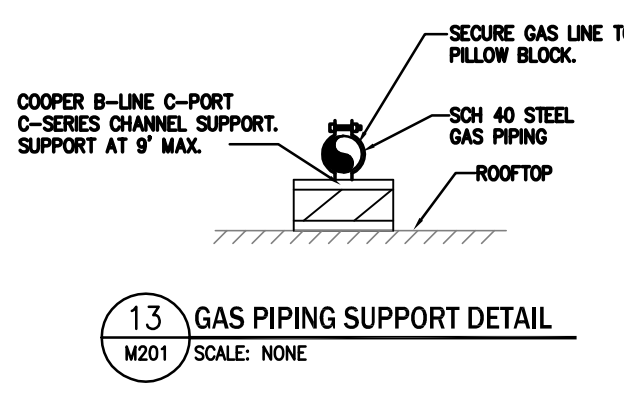
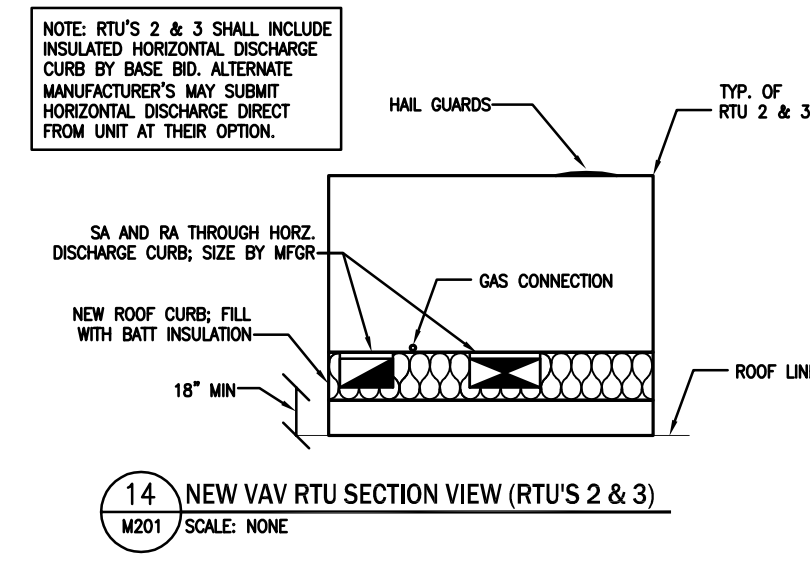
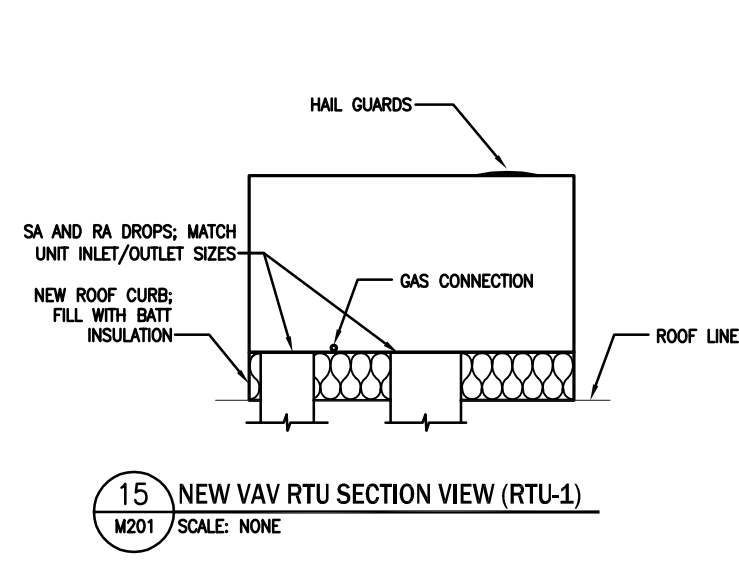
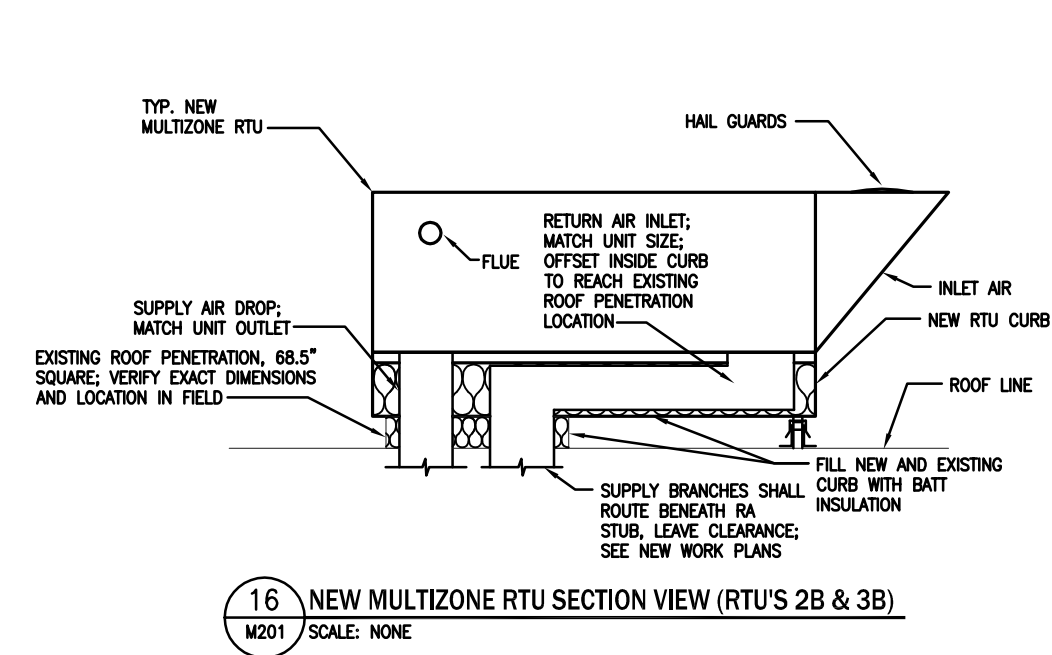
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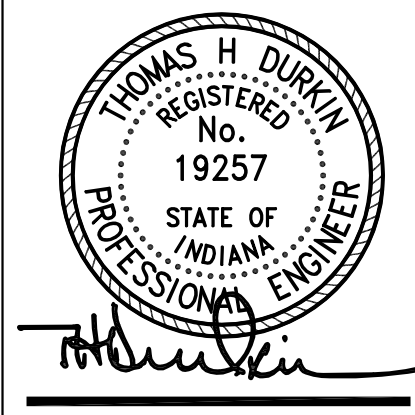
**2018 Renovation & Addition  
Clarksville Branch Library**  
Jeffersonville Township Public Library  
1312 Eastern Boulevard  
Clarksville, Indiana 47129



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VARIABLE AIR VOLUME BOX SCHEDULE														
MARK	MODEL NUMBER	INLET/UNIT SIZE	SERVING	MAX PRIMARY CFM	MIN PRIMARY CFM	REHEAT AIRFLOW CFM	INLET SP. (IN. WC)	EAT (°F)	LAT (°F)	COIL CAPACITY (KW)	VOLTS/PH	MOP	MCA	TYPE
VAV-1	SDV5	12	A130	1485	-	490	1"	55	100	7.0	208/3	30	26.5	ELECTRIC REHEAT
VAV-2	SDV5	12	A131	1485	-	520	1"	55	100	7.4	208/3	30	28.0	ELECTRIC REHEAT
VAV-3	SDV5	12	STUDY ROOMS	450	-	105	1"	55	100	1.5	208/1	15	9.8	ELECTRIC REHEAT
VAV-4	SDV5	12	LOBBY	800	-	260	1"	55	100	3.7	208/1	25	24.2	ELECTRIC REHEAT
VAV-5	SDV5	12	MEETING	1350	-	300	1"	55	93	3.6	208/1	25	23.6	ELECTRIC REHEAT
VAV-6	SDV5	12	LOUNGE/OFFICE	1520	-	355	1"	55	98	4.8	208/3	20	18.1	ELECTRIC REHEAT
VAV-7	SDV5	6	MGR OFFICE	270	-	105	1"	55	100	1.5	208/1	15	9.8	ELECTRIC REHEAT
VAV-8	SDV5	14	ADULT STACKS	1800	-	485	1"	55	100	6.9	208/3	30	26.1	ELECTRIC REHEAT
VAV-9	SDV5	12	COMPUTERS	1510	-	315	1"	55	100	4.5	208/3	20	17.0	ELECTRIC REHEAT
VAV-10	SDV5	10	COMPUTERS	1350	-	210	1"	55	88	2.2	208/1	15	14.4	ELECTRIC REHEAT
VAV-11	SDV5	12	COMPUTERS	1575	-	300	1"	55	89	3.2	208/1	25	21.0	ELECTRIC REHEAT
VAV-12	SDV5	12	COMPUTERS	1370	-	210	1"	55	100	3.0	208/1	20	19.6	ELECTRIC REHEAT
VAV-13	SDV5	16	COMPUTERS	2200	-	575	1"	55	98	7.8	208/3	30	29.5	ELECTRIC REHEAT
VAV-14	SDV5	8	COMPUTERS	855	-	485	1"	55	100	6.9	208/3	30	26.1	ELECTRIC REHEAT

NOTES: 1. BASIS OF DESIGN: TRANE. 2. CAPACITIES SHOWN ARE MINIMUM. 3. PROVIDE UNIT MOUNTED DISCONNECTS. 4. VAV'S 1, 2, 3, 4, AND 5 SHALL BE INCLUDED AS PART OF BASE BID. 5. VAV'S 6, 7, 8, 9, AND 10 SHALL BE INCLUDED ONLY IF ALTERNATE #8B IS ACCEPTED. 6. VAV'S 11, 12, 13, AND 14 SHALL BE INCLUDED ONLY IF ALTERNATE #8C IS ACCEPTED.

AIR INLET & OUTLET SCHEDULE									
MARK	DESCRIPTION								
S1	4-WAY PLAQUE SUPPLY DIFFUSER. FRAME TYPE 31 WITH INSULATED BACKPAN. ALUMINUM.								
	AIRFLOW RANGE (CFM)	NECK SIZE (INCHES)	FACE SIZE (INCHES)	THROW (FEET)	S.P. (IN.)	MOUNTING	MANUFACTURER	MODEL	
	0 - 200	6"	24 x 24	4	0.003	LAY-IN/SURFACE	PRICE	ASPD	
	201 - 350	8"	24 x 24	6	0.053	LAY-IN/SURFACE	PRICE	ASPD	
	351 - 500	10"	24 x 24	7	0.06	LAY-IN/SURFACE	PRICE	ASPD	
	501 - 650	12"	24 x 24	8	0.045	LAY-IN/SURFACE	PRICE	ASPD	
651 - 850	14"	24 x 24	10	0.04	LAY-IN/SURFACE	PRICE	ASPD		
851 - 900	15"	24 x 24	10	0.038	LAY-IN/SURFACE	PRICE	ASPD		
R1	PERFORATED RETURN GRILLE. ALUMINUM CONSTRUCTION.								
	AIRFLOW RANGE (CFM)	NECK SIZE (INCHES)	FACE SIZE (INCHES)	S.P. (IN.)	MOUNTING	MANUFACTURER	MODEL		
	0 - 285	10 x 10	12 x 12	0.07	SURFACE	PRICE	PDR		
286 - 1500	22 x 22	24 x 24	0.07	LAY-IN	PRICE	PDR			
R2	LOUVERED RETURN GRILLE EXTRUDED ALUMINUM CONSTRUCTION 3/4" BLADE SPACING, 45° DEFLECTION								
	AIRFLOW RANGE (CFM)	NECK SIZE (INCHES)	FACE SIZE (INCHES)	S.P. (IN.)	MOUNTING	MANUFACTURER	MODEL		
	1260	24 x 22	26 x 24	0.03	SURFACE	PRICE	630		

NOTES:  
1. AIR DISTRIBUTION DEVICES LOCATED WITHIN ACOUSTICAL TILE CEILINGS SHALL BE PROVIDED WITH A 24"x24" FACE AND A BORDER FOR LAY-IN MOUNTING. AIR DISTRIBUTION DEVICES LOCATED WITHIN GYPSUM BOARD CEILINGS OR WALLS SHALL BE PROVIDED WITH BORDER FOR SURFACE MOUNTING. REFER TO ARCHITECTURAL DOCUMENTS FOR CEILING TYPES.  
2. AIR DISTRIBUTION DEVICES LOCATED IN SMALL ROOMS WHERE FULL 24"x24" GRIDS ARE NOT AVAILABLE SHALL BE PROVIDED WITH SURFACE MOUNTING BORDERS IN LIEU OF LAY-IN. SECURE EACH DEVICE TO CEILING GRID WITH FIELD FABRICATED SUPPORTS.  
3. ALL CEILING SUPPLY DIFFUSERS SHALL HAVE 4-WAY THROW, U.N. ON PLANS. PROVIDE FACTORY INSTALLED BLANK OFFS FOR 1, 2, OR 3-WAY THROWS AS INDICATED ON PLANS.  
4. DIFFUSER THROWS BASED ON 100 FPM TERMINAL VELOCITY.

FAN SCHEDULE																			
MARK	MODEL NUMBER	LOCATION	SERVING	DESIGN AIRFLOW (CFM)	FAN RPM	E.S.P. (IN. H2O)	SOUND (SONES)	DRIVE TYPE	ELECTRICAL DATA					CONTROL	ACCESSORIES	MARK			
									MOTOR			STARTER/VFD	DISCONNECT						
									HP	VOLTS	PHASE								
EF-1	SP-B110	RR'S	RR'S	100	950	0.25	2.0	DIRECT	80 W	115	1	RELAY BY DIV. 26	BY MFR.	4	1	EF-1			

CONTROL:  
1. SWITCH  
2. EMS  
3. SPACE THERMOSTAT  
4. OCCUPANCY SENSOR  
5. CO SENSOR  
6. PRESSURE SENSOR

ACCESSORIES / OPTIONS:  
9. CURB MOUNT ROOF JACK  
10. WALL COLLAR  
11. WALL SHUTTER  
12. WALL SHUTTER - MOTORIZED  
13. WALL CAP  
14. MOTORIZED DAMPER  
15. SPEED CONTROLLER  
16. 2 SPEED / 1 WINDING  
17. FAN GUARD / SCREEN  
18. FILTERS  
19. COMPANION FLANGES  
20. HINGED FRAMES  
21. INSULATED HOUSING FOR SOUND CONTROL  
22. SPARK / EXPLOSION PROOF (SEE SPEC. 15838)  
23. CHEMICAL RESISTANCE (SEE SPEC. 15838)  
24. HIGH TEMPERATURE (SEE SPEC. 15838)  
25. CURB ADAPTOR

NOTES: 1. BASIS OF DESIGN: GREENHECK 2. EXHAUST FAN SHALL BE INSTALLED ONLY IF ALTERNATE #4 IS ACCEPTED.

ROOF TOP UNIT SCHEDULE																				
MARK	MANUFACTURER/ MODEL	LOCATION	SERVING	APPROX. WEIGHT	CFM	MIN. O.A. CFM	ESP	DX COOLING					GAS HEAT			ELECTRIC				BASE BID OR ALTERNATE #
								EAT °F DB/WB	LAT °F DB/WB	NET SENS MBH	NET TOTAL MBH	MIN. EER	INPUT/OUTPUT MBH	GAS PRESS. IN. W.C. (MIN/MAX)	GAS CONN.	VOLTS	PHASE	AMPACITY	MOCP	
RTU-1	TRANE / YZD210F	ROOF	S.E. RENOVATION AREA	2636	5700	525	2.0	81/67	58/57	142.75	186.36	12.2	250/203	2.5 - 14	1-1/2"	208	3	91	100	BASE BID
RTU-2	TRANE / YHD210G	ROOF	EXISTING BLDG	2663	6000	600	2.0	78/65	57/56	127.12	165.28	11.8	350/283	2.5 - 14	1-1/2"	208	3	84	110	ALT. #8B
RTU-2B	ENG. AIR / FWE163	ROOF	EXISTING BLDG	5500	6000	600	1.5	80/67	57/56	148.7	206.8	11.0	350/283	2.5 - 14	1-1/2"	208	3	121	125	BASE BID
RTU-3	TRANE / YHD180G	ROOF	EXISTING BLDG	2663	6000	600	2.0	78/65	55/56	114.74	163.87	12.0	350/283	2.5 - 14	1-1/2"	208	3	73	90	ALT. #8C
RTU-3B	ENG. AIR / FWE163	ROOF	EXISTING BLDG	5500	6000	600	1.5	80/67	57/56	148.7	206.8	11.0	350/283	2.5 - 14	1-1/2"	208	3	121	125	ALT. #8A

1. BASIS OF DESIGN: RTU-1, 2, 3 - TRANE. RTU-2B, 3B - ENGINEERED AIR.  
2. FACTORY MOUNTED NON-FUSED DISCONNECT.  
3. HEATING CAPACITY DOES NOT INCLUDE HEAT ADDED BY FAN MOTOR.  
4. RTU'S TO BE EQUIPPED WITH ECONOMIZER CONTROLS (DRY BULB) WITH BAROMETRIC RELIEF DAMPER.  
5. UNITS SHALL BE EQUIPPED WITH CONDENSOR HAIL GUARDS.  
6. ROOFTOP UNIT CAPACITY BASED UPON 95 °F CONDENSER ENTERING AIR TEMPERATURE.  
7. RTU-1 TO BE FURNISHED AND INSTALLED WITH 18" INSULATED FULL-PERIMETER CURB.  
8. UNIT SHALL INCLUDE 120 V, GFCI CONVENIENCE RECEPTACLE. (POWERED BY DIV. 16)  
9. LABEL UNITS WITH ENGRAVED PLASTIC TAG.  
10. ALL ROOFTOP UNITS SHALL USE R-410A REFRIGERANT.  
11. RTU-3 SHALL BE INCLUDED ONLY IF ALTERNATE #8 IS ACCEPTED.  
12. RTU'S 2 AND 3 SHALL INCLUDE INSULATED HORIZONTAL DISCHARGE CURB AS THEIR BASE DESIGN (HORIZONTAL DISCHARGE FROM UNITS ALSO ACCEPTABLE).  
13. RTU'S 2B & 3B TO BE FURNISHED AND INSTALLED WITH INSULATED FULL-PERIMETER CURB. HEIGHT SHALL BE AS REQUIRED TO ALLOW DUCT OFFSETS WITHIN CURB. NOMINALLY 18" TALL; V.I.F.  
14. RTU'S 2B & 3B SHALL BE MULTI ZONE UNITS.

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PLOTS/SCALE: 1/16"



**MULTIZONE AIR HANDLING UNITS (RTU-2B, RTU-3B) - SEQUENCE OF OPERATIONS:**

- CONSTANT SPEED SUPPLY FAN START/STOP: THE SUPPLY FAN WILL BE STARTED ACCORDING TO THE DAY/NIGHT AND OCCUPIED/UNOCCUPIED SCHEDULES.
  - O/A DAMPER SHALL OPEN TO MINIMUM POSITION WHEN "OCCUPIED MODE IS ENABLED.
- COLD DECK CONTROL: DX COOLING WILL BE LOCKED OUT AT OAT BELOW 58F. OA DAMPER AND DX COOLING WILL MODULATE TO MAINTAIN THE COLD DECK TEMPERATURE AT SETPOINT (58F).
- HOT DECK CONTROL: THE GAS FURNACE WILL MODULATE TO MAINTAIN THE HOT DECK TEMPERATURE AT SETPOINT (INITIALLY SET AT 90F).
- HUMIDITY LEVELS ABOVE 55% SHALL ACTIVATE THE HOT DECK TO A 90F LAT. HOT DECK SHALL BE OFF AFTER SPACE HUMIDITY HAS DROPPED TO 50%. HUMIDITY SHALL BE DISABLED WHEN OAT IS BELOW 55F.
- CO2 CONTROL: CLOSE OA DAMPER BELOW MINIMUM POSITION IF SPACE CO2 IS BELOW 600 PPM. OA DAMPER SHALL MODULATE OPEN TO MAINTAIN SPACE CO2 AT 900 PPM.
- ZONE DAMPERS SHALL MODULATE IN RESPONSE TO SPACE TEMPERATURES.
- NIGHT SETBACK/NIGHT SETUP: WHEN IN "UNOCCUPIED" MODE, THE UNIT WILL CYCLE AS NECESSARY TO MAINTAIN THE AVERAGE OF ALL SPACES AT 65F (HEATING) OR 78F (COOLING). OA DAMPER SHALL BE CLOSED.

**SEQUENCE OF OPERATIONS: RTU-1 , RTU-2, & RTU-3**

**BUILDING AUTOMATION SYSTEM INTERFACE:**  
 THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE CONTROLLER OCCUPIED BYPASS, MORNING WARM-UP/PRE-COOL, OCCUPIED/UNOCCUPIED AND HEAT/COOL MODES. IF A BAS IS NOT PRESENT OR COMMUNICATIONS IS LOST WITH THE BAS, THE CONTROLLER SHALL OPERATE USING DEFAULT MODES AND SETPOINTS.

**OCCUPIED MODE:**  
 DURING OCCUPIED PERIODS, THE SUPPLY FAN SHALL RUN CONTINUOUSLY AND THE OUTSIDE AIR DAMPER SHALL OPEN TO MAINTAIN MINIMUM VENTILATION REQUIREMENTS. THE UNIT CONTROLLER SHALL CONTROL THE SUPPLY FAN SPEED TO MAINTAIN THE CURRENT DUCT STATIC PRESSURE SETPOINT (ADJ.). THE DX COOLING SHALL STAGE AND GAS HEAT SHALL MODULATE TO MAINTAIN THE CURRENT DISCHARGE AIR TEMPERATURE SETPOINT. IF ECONOMIZING IS ENABLED, THE OUTSIDE AIR DAMPER SHALL MODULATE TO MAINTAIN THE CURRENT DISCHARGE AIR TEMPERATURE.

**UNOCCUPIED MODE:**  
 WHEN THE SPACE TEMPERATURE IS BELOW THE UNOCCUPIED HEATING SETPOINT OF 60.0F (ADJ.) THE SUPPLY FAN SHALL START, THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED, AND THE GAS HEAT SHALL BE ENABLED. WHEN THE SPACE TEMPERATURE RISES ABOVE THE UNOCCUPIED HEATING SETPOINT OF 60.0F (ADJ.) PLUS THE UNOCCUPIED DIFFERENTIAL OF 4.0F (ADJ.) THE SUPPLY FAN SHALL STOP AND THE GAS HEAT SHALL BE DISABLED. WHEN THE SPACE TEMPERATURE IS ABOVE THE UNOCCUPIED COOLING SETPOINT OF 80.0F (ADJ.) THE SUPPLY FAN SHALL START, THE OUTSIDE AIR DAMPER SHALL OPEN IF ECONOMIZING IS ENABLED AND REMAIN CLOSED IF ECONOMIZING IS DISABLED AND THE DX COOLING SHALL BE ENABLED. WHEN THE SPACE TEMPERATURE FALLS BELOW THE UNOCCUPIED COOLING SETPOINT OF 80.0F (ADJ.) MINUS THE UNOCCUPIED DIFFERENTIAL OF 4.0F (ADJ.) THE SUPPLY FAN SHALL STOP, THE DX COOLING SHALL BE DISABLED, AND THE OUTSIDE AIR DAMPER SHALL CLOSE.

**OPTIMAL START:**  
 THE BAS SHALL MONITOR THE SCHEDULED OCCUPIED TIME, OCCUPIED SPACE SETPOINTS, AND SPACE TEMPERATURE TO CALCULATE WHEN THE OPTIMAL START OCCURS.

**MORNING WARM-UP MODE:**  
 DURING OPTIMAL START, IF THE AVERAGE SPACE TEMPERATURE IS BELOW THE OCCUPIED HEATING SETPOINT, A MORNING WARM-UP MODE SHALL BE ACTIVATED. WHEN MORNING WARM-UP IS INITIATED THE UNIT SHALL ENABLE THE HEATING AND SUPPLY FAN. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED. WHEN THE AVERAGE SPACE TEMPERATURE REACHES THE OCCUPIED HEATING SETPOINT (ADJ.), THE UNIT SHALL TRANSITION TO THE OCCUPIED MODE.

**PRE-COOL MODE:**  
 DURING OPTIMAL START, IF THE AVERAGE SPACE TEMPERATURE IS ABOVE THE OCCUPIED COOLING SETPOINT, PRE-COOL MODE SHALL BE ACTIVATED. WHEN PRE-COOL IS INITIATED THE UNIT SHALL ENABLE THE FAN AND COOLING OR ECONOMIZER. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED UNLESS ECONOMIZING. WHEN THE AVERAGE SPACE TEMPERATURE REACHES OCCUPIED COOLING SETPOINT (ADJ.), THE UNIT SHALL TRANSITION TO THE OCCUPIED MODE.

**OPTIMAL STOP:**  
 THE BAS SHALL MONITOR THE SCHEDULED UNOCCUPIED TIME, OCCUPIED SETPOINTS, AND SPACE TEMPERATURE TO CALCULATE WHEN THE OPTIMAL STOP OCCURS. WHEN THE OPTIMAL STOP MODE IS ACTIVE THE UNIT CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE TO THE SPACE TEMPERATURE OFFSET SETPOINT.

**OCCUPIED BYPASS:**  
 THE BAS SHALL MONITOR THE STATUS OF THE "ON" AND "CANCEL" BUTTONS OF THE SPACE TEMPERATURE SENSORS. WHEN AN OCCUPIED BYPASS REQUEST IS RECEIVED FROM A SPACE SENSOR, THE UNIT SHALL TRANSITION FROM ITS CURRENT OCCUPANCY MODE TO OCCUPIED BYPASS MODE AND THE UNIT SHALL MAINTAIN THE SPACE TEMPERATURE TO THE OCCUPIED SETPOINTS (ADJ.).

**ECONOMIZER:**  
 THE SUPPLY AIR SENSOR SHALL MEASURE THE DRY BULB TEMPERATURE OF THE AIR LEAVING THE EVAPORATOR COIL WHILE ECONOMIZING. WHEN ECONOMIZING IS ENABLED AND THE UNIT IS OPERATING IN THE COOLING MODE, THE ECONOMIZER DAMPER SHALL BE MODULATED BETWEEN ITS MINIMUM POSITION AND 100% TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT. THE ECONOMIZER DAMPER SHALL MODULATE TOWARD MINIMUM POSITION IN THE EVENT THE MIXED AIR TEMPERATURE FALLS BELOW THE LOW LIMIT TEMPERATURE SETTING. COMPRESSORS SHALL BE DELAYED FROM OPERATING UNTIL THE ECONOMIZER HAS OPENED TO 100%.

**REFERENCE DRY BULB:**  
 OUTSIDE AIR (OA) TEMPERATURE SHALL BE COMPARED WITH A REFERENCE DRY BULB SETPOINT. THE ECONOMIZER SHALL ENABLE WHEN THE OA TEMPERATURE IS LESS THAN REFERENCE DRY BULB SETPOINT. THE ECONOMIZER SHALL BE DISABLED WHEN OA TEMPERATURE IS GREATER THAN REFERENCE DRY BULB SETPOINT +5.0F

**SUPPLY FAN:**  
 THE SUPPLY FAN SHALL BE ENABLED WHILE IN THE OCCUPIED MODE AND CYCLED ON DURING THE UNOCCUPIED MODE. A DIFFERENTIAL PRESSURE SWITCH SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FAN. IF THE SWITCH DOES NOT OPEN WITHIN 40 SECONDS AFTER A REQUEST FOR FAN OPERATION, A FAN FAILURE ALARM SHALL BE ANNUNCIATED AT THE BAS AND THE UNIT SHALL STOP, REQUIRING A MANUAL RESET.

**SUPPLY DUCT STATIC PRESSURE CONTROL:**  
 THE UNIT CONTROLLER SHALL MODULATE THE SUPPLY FAN OUTPUT AS REQUIRED TO MAINTAIN THE DUCT STATIC PRESSURE SETPOINT. IF THE DUCT STATIC PRESSURE FALLS BELOW THE SUPPLY AIR STATIC SETPOINT + DEADBAND, THE UNIT CONTROLLER SHALL INCREASE THE OUTPUT TO THE SUPPLY FAN TO MAINTAIN SETPOINT. IF THE DUCT STATIC PRESSURE RISES ABOVE THE SUPPLY AIR STATIC SETPOINT + DEADBAND, THE UNIT CONTROLLER SHALL DECREASE THE OUTPUT TO THE SUPPLY FAN TO MAINTAIN SETPOINT.

IF FOR ANY REASON THE SUPPLY AIR PRESSURE EXCEEDS THE FIXED SUPPLY AIR PRESSURE LIMIT OF 3.5 INCHES OF W.C. THE SUPPLY FAN SHALL SHUT DOWN. THE UNIT SHALL BE ALLOWED TO RESTART THREE TIMES. IF THE OVERPRESSURIZATION CONDITION OCCURS ON THE FOURTH RESTART, THE UNIT SHALL SHUT DOWN AND A MANUAL RESET DIAGNOSTIC IS DISPLAYED AT THE REMOTE PANEL AND/OR THE BAS SYSTEM.

**FILTER STATUS:**  
 A DIFFERENTIAL PRESSURE SWITCH SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FILTER WHEN THE FAN IS RUNNING. IF THE SWITCH CLOSSES FOR 2 MINUTES AFTER A REQUEST FOR FAN OPERATION A DIRTY FILTER ALARM SHALL BE ANNUNCIATED AT THE BAS.

**SEQUENCE OF OPERATIONS: ELECTRIC HEAT VAV'S**

**BUILDING AUTOMATION SYSTEM INTERFACE:**  
 THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE CONTROLLER OCCUPIED AND UNOCCUPIED COMMANDS. THE BAS MAY ALSO SEND A HEAT/COOL MODE, PRIORITY SHUTDOWN COMMANDS, SPACE TEMPERATURE AND/OR SPACE TEMPERATURE SETPOINT. IF COMMUNICATION IS LOST WITH THE BAS, THE VAV CONTROLLER SHALL OPERATE USING ITS LOCAL SETPOINTS.

**OCCUPANCY MODE:**  
 THE OCCUPANCY MODE SHALL BE COMMUNICATED OR HARDWIRED TO THE VAV VIA A BINARY INPUT. VALID OCCUPANCY MODES FOR THE VAV SHALL BE:

**OCCUPIED:**  
 NORMAL OPERATING MODE FOR OCCUPIED SPACES OR DAYTIME OPERATION. WHEN THE UNIT IS IN THE OCCUPIED MODE THE VAV SHALL MAINTAIN THE SPACE TEMPERATURE AT THE ACTIVE OCCUPIED HEATING OR COOLING SETPOINT. APPLICABLE VENTILATION AND AIRFLOW SETPOINTS SHALL BE ENFORCED. THE OCCUPIED MODE SHALL BE THE DEFAULT MODE OF THE VAV.

**OCCUPIED STANDBY:**  
 THE OCCUPANCY SENSOR SHALL BE USED TO INDICATE THAT THE SPACE IS UNOCCUPIED, EVEN THOUGH THE BAS HAS SCHEDULED THE SPACE AS OCCUPIED. IN THE OCCUPIED STANDBY MODE, THE ACTIVE COOLING AND HEATING SETPOINTS SHALL BE RELAXED (SEE COOLING AND HEATING MODE) AND BOTH THE VENTILATION AIRFLOW AND MINIMUM AIRFLOW SETPOINTS SHALL BE LOWERED (SEE VAV SCHEDULE).

**UNOCCUPIED:**  
 NORMAL OPERATING MODE FOR UNOCCUPIED SPACES OR NIGHTTIME OPERATION. WHEN THE UNIT IS IN UNOCCUPIED MODE, THE VAV CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE AT THE STORED UNOCCUPIED HEATING OR COOLING SETPOINT REGARDLESS OF THE PRESENCE OF A HARDWIRED OR COMMUNICATED SETPOINT. WHEN THE SPACE TEMPERATURE EXCEEDS THE ACTIVE UNOCCUPIED SETPOINT, THE VAV SHALL MODULATE FULLY CLOSED.

**OCCUPIED BYPASS:**  
 MODE USED TO TEMPORARILY PLACE THE UNIT INTO THE OCCUPIED OPERATION. TENANTS SHALL BE ABLE TO OVERRIDE THE UNOCCUPIED MODE FROM THE SPACE SENSOR. THE OVERRIDE SHALL LAST FOR A MAXIMUM OF 4 HOURS (ADJ.). THE TENANTS SHALL BE ABLE TO CANCEL THE OVERRIDE FROM THE SPACE SENSOR AT ANY TIME. DURING THE OVERRIDE, THE UNIT SHALL OPERATE IN OCCUPIED MODE.

**HEAT/COOL MODE:**  
 THE HEAT/COOL MODE SHALL BE SET BY A COMMUNICATED VALUE OR AUTOMATICALLY BY THE VAV. IN STANDALONE OR AUTO MODE, THE VAV SHALL COMPARE THE PRIMARY AIR TEMPERATURE WITH THE CONFIGURED AUTO CHANGEOVER SETPOINT TO DETERMINE IF THE AIR IS "HOT" OR "COLD". HEATING MODE IMPLIES THE PRIMARY AIR TEMPERATURE IS HOT. COOLING MODE IMPLIES THE PRIMARY AIR TEMPERATURE IS COLD.

**UNOCCUPIED:**  
 NORMAL OPERATING MODE FOR UNOCCUPIED SPACES OR NIGHTTIME OPERATION. WHEN THE UNIT IS IN UNOCCUPIED MODE, THE VAV CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE AT THE STORED UNOCCUPIED HEATING OR COOLING SETPOINT REGARDLESS OF THE PRESENCE OF A HARDWIRED OR COMMUNICATED SETPOINT. WHEN THE SPACE TEMPERATURE EXCEEDS THE ACTIVE UNOCCUPIED SETPOINT, THE VAV SHALL MODULATE FULLY CLOSED.

**HEAT/COOL SETPOINT:**  
 THE SPACE TEMPERATURE SETPOINT SHALL BE DETERMINED EITHER BY A LOCAL (E.G., THUMBWHEEL) SETPOINT, THE VAV DEFAULT SETPOINT OR A COMMUNICATED VALUE. THE VAV SHALL USE THE LOCALLY STORED DEFAULT SETPOINTS WHEN NEITHER A LOCAL SETPOINT NOR COMMUNICATED SETPOINT IS PRESENT. IF BOTH A LOCAL SETPOINT AND COMMUNICATED SETPOINT EXIST, THE VAV SHALL USE THE COMMUNICATED VALUE.

**COOLING MODE:**  
 WHEN THE UNIT IS IN COOLING MODE, THE VAV CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE AT THE ACTIVE COOLING SETPOINT BY MODULATING THE AIRFLOW BETWEEN THE ACTIVE COOLING MINIMUM AIRFLOW SETPOINT TO THE MAXIMUM COOLING AIRFLOW SETPOINT. BASED ON THE VAV CONTROLLER OCCUPANCY MODE, THE ACTIVE COOLING SETPOINT SHALL BE ONE OF THE FOLLOWING:

SETPOINT	DEFAULT VALUE
OCCUPIED COOLING SETPOINT	74.0 °F
UNOCCUPIED COOLING SETPOINT	85.0 °F
OCCUPIED STANDBY COOLING SETPOINT	78.0 °F
OCCUPIED MIN COOLING AIRFLOW SETPOINT	SEE VAV SCHEDULE
OCCUPIED MAX COOLING AIRFLOW SETPOINT	SEE VAV SCHEDULE

THE VAV SHALL USE THE MEASURED SPACE TEMPERATURE AND THE ACTIVE COOLING SETPOINT TO DETERMINE THE REQUESTED COOLING CAPACITY OF THE UNIT. THE OUTPUTS WILL BE CONTROLLED BASED ON THE UNIT CONFIGURATION AND THE REQUESTED COOLING CAPACITY.

**REHEAT CONTROL:**  
 REHEAT WILL ONLY BE ALLOWED WHEN THE PRIMARY AIR TEMPERATURE IS 5.0 °F BELOW THE CONFIGURED REHEAT ENABLE SETPOINT OF 70.0 °F (ADJ.). THE REHEAT SHALL BE ENABLED WHEN THE SPACE TEMPERATURE DROPS BELOW THE ACTIVE HEATING SETPOINT AND THE MINIMUM AIRFLOW REQUIREMENTS ARE MET. DURING REHEAT THE VAV SHALL OPERATE AS FOLLOWS:

**SILICON CONTROLLED RECTIFIER (SCR):**  
 IF THE SPACE TEMPERATURE IS AT THE HEATING SETPOINT, THE ELECTRIC HEATER SHALL MODULATE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AT THE ACTIVE HEATING SETPOINT WHILE THE VAV OPERATES AT ITS MINIMUM HEATING AIRFLOW SETPOINT. IF THE DISCHARGE AIR TEMPERATURE REACHES THE DESIGN HEATING DISCHARGE AIR TEMPERATURE SETPOINT (ADJ.), THE VAV SHALL MODULATE AIRFLOW BETWEEN THE MINIMUM HEATING AIRFLOW SETPOINT AND THE MAXIMUM HEATING AIRFLOW SETPOINT AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AT THE ACTIVE HEATING SETPOINT. WHILE THE ELECTRIC HEATER MODULATES TO MAINTAIN DISCHARGE AIR TEMPERATURE AT THE DESIGN HEATING DISCHARGE AIR TEMPERATURE SETPOINT. IF THE AIRFLOW REACHES THE MAXIMUM HEATING AIRFLOW SETPOINT, THE VAV SHALL MODULATE THE ELECTRIC HEATER AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AT THE ACTIVE HEATING SETPOINT. WHILE THE VAV OPERATES AT ITS MAXIMUM HEATING AIRFLOW SETPOINT.

**SPACE SENSOR FAILURE:**  
 IF THERE IS A FAULT WITH THE OPERATION OF THE ZONE SENSOR, AN ALARM SHALL BE ANNUNCIATED AT THE BAS. SPACE SENSOR FAILURE SHALL CAUSE THE VAV TO DRIVE THE DAMPER TO MINIMUM AIR FLOW IF THE VAV IS IN THE OCCUPIED MODE, OR DRIVE IT CLOSED IF THE VAV IS IN THE UNOCCUPIED MODE.

PLOTSCALE:1"=1'

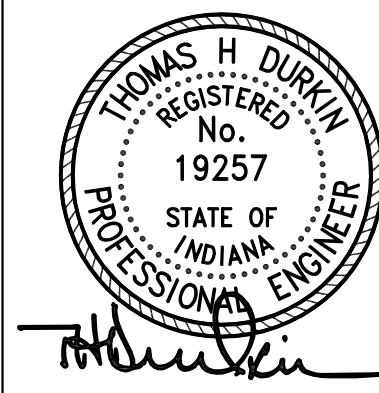
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**KovertHawkins**  
 architects

Drawn	SDA
Checked By	SDA
Project No.	1723.02
Date	12/8/17



2018 Renovation & Addition  
**Clarksville Branch Library**  
 Jeffersonville Township Public Library  
 1312 Eastern Boulevard  
 Clarksville, Indiana 47129

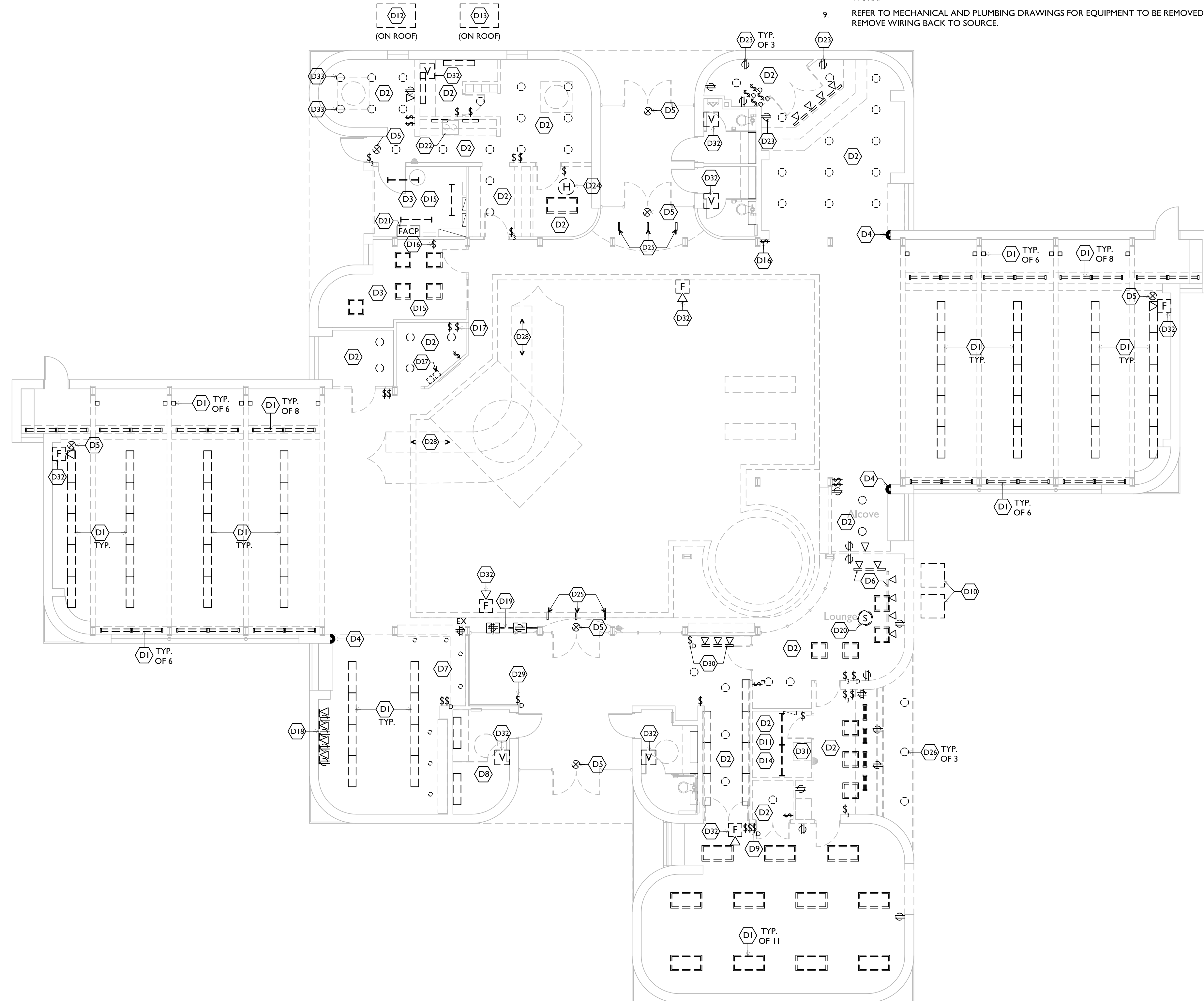
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**M-302**



## Electrical Demolition Plan Keynotes

- D1 REMOVE INDICATED LIGHT FIXTURE(S), EXISTING SWITCHING AND LIGHTING CIRCUIT TO REMAIN TO FEED NEW LIGHT FIXTURES. PREP FOR INSTALLATION OF NEW LIGHT FIXTURES IN SAME LOCATIONS (U.O.N.); SEE E-100 DRAWINGS FOR ADDITIONAL INFORMATION.
- D2 REMOVE LIGHT FIXTURES AND EXISTING SWITCH(ES) FROM ENTIRE ROOM / CORRIDOR. EXISTING LIGHTING CIRCUIT TO REMAIN TO FEED NEW LIGHT FIXTURES. PREP FOR INSTALLATION OF NEW LIGHT FIXTURES AND LIGHT SWITCH IN NEW LOCATIONS; SEE E-100 DRAWINGS FOR ADDITIONAL INFORMATION.
- D3 REMOVE LIGHT FIXTURES FROM ENTIRE ROOM / CORRIDOR. EXISTING SWITCHING AND LIGHTING CIRCUIT TO REMAIN TO FEED NEW LIGHT FIXTURES. PREP FOR INSTALLATION OF NEW LIGHT FIXTURES IN NEW LOCATIONS; SEE E-100 DRAWINGS FOR ADDITIONAL INFORMATION.
- D4 REMOVE INDICATED LIGHT FIXTURE AND ASSOCIATED WIRING BACK TO SOURCE.
- D5 REMOVE EXIT LIGHT. EXISTING LIGHTING CIRCUIT TO REMAIN TO FEED NEW EXIT LIGHT; SEE E-100 DRAWINGS FOR ADDITIONAL INFORMATION.
- D6 REMOVE TRACK LIGHTING AND SALVAGE FOR RE-INSTALLATION AT NEW LOCATION. REMOVE ASSOCIATED DIMMER SWITCH AND WIRING BACK TO SOURCE.
- D7 REMOVE CAN LIGHTS FROM ROOM, ASSOCIATED SWITCHES, AND WIRING BACK TO SOURCE.
- D8 ALTERNATE NO. 5 - REMOVE AND RE-INSTALL WALL MOUNTED LIGHT FIXTURES IN ROOM AS REQUIRED FOR INSTALLATION OF NEW PORCELAIN WALL TILE.
- D9 REMOVE EXISTING SWITCH(ES) IN ITS ENTIRETY AND ASSOCIATED WIRING; SEE E-100 DRAWINGS FOR NEW SWITCHING INFORMATION.
- D10 DISCONNECT ELECTRICAL CIRCUIT FOR CONDENSING UNITS TO BE REMOVED. EXISTING CIRCUIT TO REMAIN TO FEED NEW ROOF TOP UNIT. SEE DRAWING MD-101 AND E-201 FOR ADDITIONAL INFORMATION.
- D11 DISCONNECT ELECTRICAL CIRCUIT AND REMOVE WIRING BACK TO SOURCE FOR HEAT PUMPS TO BE REMOVED. SEE DRAWING MD-101 FOR ADDITIONAL INFORMATION.
- D12 BASE BID OR ALTERNATE #8B: DISCONNECT ELECTRICAL CIRCUIT AND REMOVE WIRING BACK TO SOURCE FOR ROOF TOP UNIT TO BE REMOVED. SEE DRAWING MD-101 FOR ADDITIONAL INFORMATION.
- D12 ALTERNATES #8A OR #8C: DISCONNECT ELECTRICAL CIRCUIT AND REMOVE WIRING BACK TO SOURCE FOR ROOF TOP UNIT TO BE REMOVED. SEE DRAWING MD-101 FOR ADDITIONAL INFORMATION.
- D14 DISCONNECT ELECTRICAL CIRCUIT AND REMOVE WIRING BACK TO SOURCE FOR AIR HOOD (ON ROOF) TO BE REMOVED. SEE DRAWING MD-101 FOR ADDITIONAL INFORMATION.
- D15 ALTERNATE #8B: DISCONNECT ELECTRICAL CIRCUIT AND REMOVE WIRING BACK TO SOURCE FOR DUCT HEATER TO BE REMOVED. SEE DRAWING MD-101 FOR ADDITIONAL INFORMATION.
- D16 REMOVE (1) LIGHT SWITCH AND ASSOCIATED WIRING; (1) EXISTING LIGHT SWITCH TO REMAIN. PROVIDE NEW COVER PLATE W/ BLANK OVER REMOVED SWITCH LOCATION.
- D17 CONTRACTOR TO VERIFY LIGHT SWITCHES DO NOT CONTROL ANY ITEMS PRIOR TO REMOVAL. PROVIDE NEW COVER PLATES W/ BLANK OVER REMOVED SWITCH LOCATIONS.
- D18 REMOVE EXISTING SURFACE MOUNTED WIREMOLD FROM WALL AND ALL ASSOCIATED DEVICES; REMOVE ASSOCIATED WIRING BACK TO SOURCE.
- D19 REMOVE EXISTING SURFACE MOUNTED WIREMOLD FROM FLOOR AND ALL ASSOCIATED DEVICES; REMOVE ASSOCIATED WIRING BACK TO SOURCE.
- D20 REMOVE EXISTING RECESSED CEILING SPEAKER; SALVAGE FOR RE-INSTALLATION AT NEW LOCATION. SEE DRAWING E-201 FOR ADDITIONAL INFORMATION.
- D21 REMOVE EXISTING FIRE ALARM CONTROL PANEL; EXISTING WIRING TO REMAIN.
- D22 DISCONNECT ELECTRICAL CIRCUIT AND REMOVE EXISTING ELECTRIC RANGE AND RANGE HOOD. REMOVE ALL ASSOCIATED WIRING BACK TO SOURCE.
- D23 REMOVE ELECTRICAL RECEPTACLES AT LOWER PIT LEVEL IN THEIR ENTIRETY (DEVICE, ROUGH-IN BOX, AND ALL ASSOCIATED WIRING). PATCH OPENING WITH GYP. BD. TO MATCH EXISTING ADJACENT SURFACES.
- D24 REMOVE EXISTING CEILING MOUNTED HEAT DETECTOR; SALVAGE FOR RE-INSTALLATION IN STOR. 105. SEE DRAWING E-201 FOR ADDITIONAL INFORMATION.
- D25 DISCONNECT ELECTRICAL CIRCUIT TO EXISTING SECURITY GATES. EXISTING ELECTRICAL CIRCUIT TO REMAIN TO FEED NEW RHID SECURITY GATES. SEE DRAWING E-201 FOR ADDITIONAL INFORMATION.
- D26 REMOVE INDICATED EXISTING LIGHTS IN EXTERIOR SOFFIT AND ALL ASSOCIATED WIRING. CONTRACTOR TO RE-WIRE AS REQUIRED TO MAINTAIN EXISTING EXTERIOR LIGHTING CIRCUIT.
- D27 DISCONNECT AND REMOVE POWER SUPPLIES FOR EXISTING SECURITY GATES. EXISTING ELECTRICAL CIRCUIT TO REMAIN TO FEED NEW RHID SECURITY GATES. SEE DRAWING E-201 FOR ADDITIONAL INFORMATION.
- D28 DISCONNECT ELECTRICAL CIRCUITS AND REMOVE WIRING BACK TO SOURCE FOR ALL EXISTING ELECTRICAL DEVICES LOCATED IN EXISTING CIRCULATION DESK TO BE DEMOLISHED. CUT CONDUITS DOWN TO BELOW FLOOR SLAB.
- D29 REMOVE EXISTING DIMMER SWITCH AND SWITCH COVER PLATE. EXISTING SWITCH ROUGH-IN BOX AND LIGHTING CIRCUIT TO REMAIN. PREP FOR INSTALLATION OF NEW LIGHT SWITCH IN SAME LOCATION; SEE DRAWING E-100 FOR ADDITIONAL INFORMATION.
- D30 REMOVE TRACK LIGHTING IN ITS ENTIRETY. REMOVE EXISTING ASSOCIATED DIMMER SWITCH AND SWITCH COVER PLATE. EXISTING SWITCH ROUGH-IN BOX AND LIGHTING CIRCUIT TO REMAIN. PREP FOR INSTALLATION OF NEW LIGHT SWITCH IN SAME LOCATION; SEE DRAWING E-100 FOR ADDITIONAL INFORMATION.
- D31 DISCONNECT ELECTRICAL CIRCUIT FROM WATER HEATER TO BE RELOCATED. EXISTING ELECTRICAL CIRCUIT TO REMAIN. SEE PLUMBING DRAWINGS AND DRAWING E-201 FOR ADDITIONAL INFORMATION.
- D32 REMOVE EXISTING FIRE ALARM DEVICE; EXISTING WIRING TO REMAIN.
- D33 REMOVE EXISTING INDICATED CAN LIGHT; SALVAGE FOR RE-INSTALLATION IN SAME ROOM.

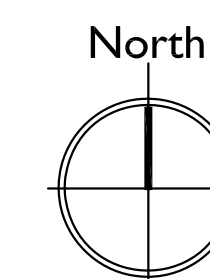


## General Electrical Demolition Notes

1. CONTRACTOR SHALL REMOVE LIGHT FIXTURES, SWITCHES, DEVICES, CONDUIT, WIRING, ETC. AS INDICATED ON THE DRAWINGS.
2. REMOVE ALL ELECTRIC, LIGHTING, DEVICES, CONDUIT, WIRING, ETC. NECESSARY FOR ARCHITECTURAL DEMOLITION AND NEW CONSTRUCTION (WHETHER SPECIFICALLY INDICATED OR NOT ON THE DRAWINGS).
3. EXISTING SWITCHING AND LIGHTING CIRCUITS TO REMAIN TO FEED NEW LIGHT FIXTURES, U.O.N. PREP FOR INSTALLATION OF NEW LIGHT FIXTURES; SEE E-100 DRAWINGS FOR ADDITIONAL INFORMATION.
4. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL REMOVED MATERIAL (LIGHT FIXTURES, SWITCHES, CONDUIT, WIRING, ETC.) OFF SITE. PROVIDE PAPERWORK TO ARCHITECT SHOWING THAT LAMPS AND BALLASTS WERE PROPERLY DISPOSED OF.
5. OWNER SHALL BE NOTIFIED IN ADVANCE OF ALL POWER SHUT DOWNS AND/OR CHANGE OVERS. COORDINATE EXACT SCHEDULING WITH OWNER AS REQUIRED. SHUT DOWNS WILL NEED TO OCCUR DURING SECOND SHIFT OR WEEKENDS.
6. ALL EXISTING SYSTEMS IE: FIRE ALARM, INTERCOM, SECURITY, DATA, AND TELEPHONE SHALL REMAIN IN GOOD WORKING CONDITION IN ALL OCCUPIED AREAS.
7. BLANK OFF ALL UNUSED OUTLETS, SWITCHES, ETC. REMAINING IN EXISTING WALLS (TYPICAL).
8. RE-FEED ALL ELECTRICAL DEVICES, LIGHTS, ETC. DISTURBED DOWNSTREAM BY RENOVATION AND/OR DEMOLITION WORK.
9. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EQUIPMENT TO BE REMOVED. DISCONNECT AND REMOVE WIRING BACK TO SOURCE.

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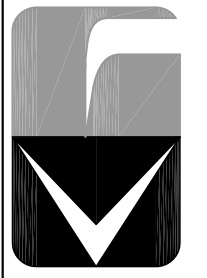
**Electrical Demolition Plan**

full size plot scale: 1/8"=1'-0"

0 4'-0" 8'-0"

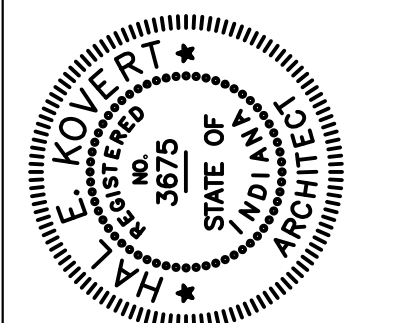
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Drawn	HG
Checked By	HK
Project No.	1723.02
Date	12/07/2017



**2018 Renovation & Addition**  
**Clarksville Branch Library**  
Jeffersonville Township Public Library  
1312 Eastern Boulevard  
Clarksville, Indiana 47129

Sheet  
**E-001**

Light Fixture Schedule					
Iden	Description	Mounting	Lamps	Fix. Watts	Finish
<b>BUILDING INTERIOR LIGHTING</b>					
A1	2'x4' LED VOLUMETRIC RECESSED: "LITHONIA", BLT; 2BLT4-48L-ADSM-MVOLT-EZI-LP840	RECESSED CEILING	LED	45 WATTS	WHITE FRAME; WHITE LENS
A2	2'x4' LED VOLUMETRIC RECESSED: "LITHONIA", BLT; 2BLT4-60L-ADSM-MVOLT-EZI-LP840	RECESSED CEILING	LED	53 WATTS	WHITE FRAME; WHITE LENS
B1	2'x2' LED VOLUMETRIC RECESSED: "LITHONIA", 2BLT; 2BLT2-33L-ADSM-MVOLT-EZI-LP840	RECESSED CEILING	LED	30 WATTS	WHITE FRAME; WHITE LENS
B2	2'x2' LED VOLUMETRIC RECESSED: "LITHONIA", 2BLT; 2BLT2-40L-ADSM-MVOLT-EZI-LP840	RECESSED CEILING	LED	39 WATTS	WHITE FRAME; WHITE LENS
C1	LED SUSPENDED INDIRECT/DIRECT: "PEELSS", STAPLE LED; SPM9L-LSL-20FT-MSL4-80CRI-40K-ID800LMF-60/40-DARK-ZT-120V-SCT-FI-24A-C111	SUSPENDED CEILING	LED	29 WATTS	PAINTED FRAME; ACRYLIC LENS
C2	LED SUSPENDED INDIRECT/DIRECT: "PEELSS", STAPLE LED; SPM9L-LSL-20FT-MSL4-80CRI-40K-ID1100LMF-60/40-DARK-ZT-120V-SCT-FI-24A-C111	SUSPENDED CEILING	LED	41 WATTS	PAINTED FRAME; ACRYLIC LENS
C3	LED SUSPENDED INDIRECT/DIRECT: "PEELSS", STAPLE LED; SPM9L-LSL-20FT-MSL4-80CRI-40K-ID1100LMF-20/80-DARK-ZT-120V-SCT-FI-24A-C111	SUSPENDED CEILING	LED	41 WATTS	PAINTED FRAME; ACRYLIC LENS
D	2'x4' LED TROFFER: "LITHONIA", GTL LED; 2GTL4-5000LM-LP840	RECESSED CEILING	LED	41 WATTS	WHITE FRAME; PATTERNED #12 ACRYLIC LENS
E	2'x2' LED TROFFER: "LITHONIA", GTL LED; 2GTL2-3700LM-LP840	RECESSED CEILING	LED	35 WATTS	WHITE FRAME; PATTERNED #12 ACRYLIC LENS
F	LED UNDERCABINET LIGHT: "LITHONIA", UCLED LED; UCLED-24IN-30K-90CRI-SWR-VH	SURFACE WALL CABINET	LED	12.5 WATTS	WHITE HOUSING
G1	LED STRIP LIGHT: "LITHONIA", CLX; CLX-L48-5000LM-SEF-LLENS-MVOLTGZ10-40K-80CRI-VH	SURFACE IN COVE (CONCEALED)	LED	35.4 WATTS	WHITE HOUSING
G2	LED STRIP LIGHT: "LITHONIA", CLX; CLX-L48-4000LM-SEF-WDL-MVOLTGZ10-40K-80CRI-VH	SURFACE CEILING	LED	32 WATTS	WHITE HOUSING
H	LED LINEAR LIGHT: "PRINACLE", EDGE EX2; EX2-A-6040H-2-WA-J-OL1-I-W	SURFACE WALL	LED	17 WATTS	WHITE HOUSING
J	LED TRACK LIGHTING: "JUNO", QUICK JACK DIRECTIONALS HEADS & MONOLINE TRACK; HEAD: SP992-G2-40K-90CRI-FL-STN-CHR-M, QUANTITY PER DRAWINGS. TRACK: MLFT-XFT-STN; LENGTH PER DRAWINGS, STEM SUPPORT: MLSST-SIN-STN, LONG STEM POWER FEED: MLP1-SIN-STN, QUICK JACK TRANSFORMER: MLTA-QJ-LED-60W-STN.	SURFACE CEILING	LED	6.4 WATTS PER HEAD	SATIN NICKEL
K	LED SUSPENDED INDIRECT/DIRECT: "PEELSS", STAPLE LED; SPM9L-LSL-4FT-MSL4-80CRI-40K-ID600LMF-DARK-ZT-120V-SCT-C111-DU	SURFACE WALL	LED	22 WATTS	PAINTED FRAME; ACRYLIC LENS
X	LED EXIT: "LITHONIA", EDG-I-R-EL; PROVIDE DIRECTIONAL ARROWS PER PLAN	SURFACE CEILING	LED RED	2.5 WATTS	BRUSHED ALUMINUM HOUSING
EX-1	EXISTING PENDANT FIXTURE: EXISTING FIXTURE TO REMAIN. REMOVE (4) EXISTING 39W BLAX LAMPS AND REPLACE WITH (4) LUMEN EQUIVALENT LED LAMPS. CONTRACTOR TO REMOVE EXISTING BALLAST AND RE-WIRE FIXTURE AS REQUIRED.		LED		
EX-2	EXISTING RECESSED CAN FIXTURE: EXISTING FIXTURE TO REMAIN. REMOVE (1) EXISTING 150W PAR LAMP AND REPLACE WITH (1) LUMEN EQUIVALENT LED LAMP.		LED		
EX-3	EXISTING COVE STAGGERED STRIP FIXTURE: EXISTING FIXTURE TO REMAIN. REMOVE (2) EXISTING T-12 LAMPS AND TOMBSTONES. INSTALL NEW TOMBSTONES AND (2) HYPERIKON LED TUBE LAMPS. MODEL HYPERBY-4F-40. CONTRACTOR TO REMOVE EXISTING BALLAST AND RE-WIRE FIXTURE AS REQUIRED.		LED	18 WATTS PER LAMP	
EX-4	EXISTING TRACK HEADS: EXISTING FIXTURES TO REMAIN. REMOVE (1) EXISTING MR16 50W WIDE FLOOD LAMP PER HEAD AND REPLACE WITH (1) LUMEN EQUIVALENT LED LAMP.		LED		
EX-5	EXISTING 4' LONG LINEAR VANITY: EXISTING FIXTURE TO REMAIN. REMOVE (2) EXISTING T-12 LAMPS AND TOMBSTONES. INSTALL NEW TOMBSTONES AND (2) HYPERIKON LED TUBE LAMPS. MODEL HYPERBY-4F-40. CONTRACTOR TO REMOVE EXISTING BALLAST AND RE-WIRE FIXTURE AS REQUIRED.		LED	18 WATTS PER LAMP	
EX-6	EXISTING 3' LONG LINEAR VANITY: EXISTING FIXTURE TO REMAIN. REMOVE (2) EXISTING T-12 LAMPS AND TOMBSTONES. INSTALL NEW TOMBSTONES AND (2) HYPERIKON LED TUBE LAMPS. MODEL HYPERBY-3F-40. CONTRACTOR TO REMOVE EXISTING BALLAST AND RE-WIRE FIXTURE AS REQUIRED.		LED	14 WATTS PER LAMP	
EX-7	EXISTING RECESSED CAN FIXTURE: EXISTING FIXTURE TO REMAIN. REMOVE (2) EXISTING 18W QUAD TUBE CFL LAMPS AND REPLACE WITH (2) LUMEN EQUIVALENT LED LAMPS. CONTRACTOR TO REMOVE EXISTING BALLAST AND RE-WIRE FIXTURE AS REQUIRED.		LED		
EX-8	EXISTING RECESSED CAN FIXTURE: EXISTING FIXTURE TO REMAIN. REMOVE (2) EXISTING 13W TWIN TUBE CFL LAMPS AND REPLACE WITH (2) LUMEN EQUIVALENT LED LAMPS. CONTRACTOR TO REMOVE EXISTING BALLAST AND RE-WIRE FIXTURE AS REQUIRED.		LED		
EX-9	EXISTING RECESSED CAN FIXTURE: EXISTING FIXTURE TO REMAIN. REMOVE (1) EXISTING 100W A-9 INCANDESCENT LAMP AND REPLACE WITH (1) LUMEN EQUIVALENT LED LAMP.		LED		
<b>BUILDING EXTERIOR LIGHTING</b>					
OLF-1	6" LED OPEN AND WALLWASH CIRCULAR DOWNLIGHT: "LITHONIA", LDN6; LDN6-40/20-L06-AR-120	RECESSED SOFFIT	LED	35 WATTS	WHITE REFLECTOR; WHITE TRIM
OLF-2	EXTERIOR LED WALL PACK: "LITHONIA", CSXW LED; CSXW LED-30C-1000-40K-TFTM-MVOLT-DOBXD	SURFACE WALL	LED	104 WATTS	DARK BRONZE HOUSING; CLEAR LENS
OLF-E	LED EXTERIOR EMERGENCY LIGHT: "LITHONIA", AFN; AFN-DB-EXT	SURFACE WALL	LED	12 WATTS	DARK BRONZE HOUSING; CLEAR LENS
<b>GENERAL LIGHTING ITEMS</b>					
EM	EMERGENCY FIXTURE: PROVIDE EMERGENCY BATTERY PACK OR LED EMERGENCY MODULE BACKUP ON SPECIFIED FIXTURE; STANDARD BATTERY PACK UNIT PER MANUFACTURER, U.O.N.				

- LIGHT FIXTURE NOTES:**
- GENERAL INTENT OF ALL LIGHT FIXTURES SPECIFIED IS TO PROVIDE HIGH-PERFORMANCE FIXTURES, LAMPS, AND BALLASTS FOR IMPROVED ENERGY EFFICIENCY AND TO QUALIFY FOR UTILITY INCENTIVES, WHEN AVAILABLE. CONTRACTOR SHALL PROVIDE PRODUCT INVOICES AND BILL OF MATERIALS FOR USE IN OBTAINING UTILITY INCENTIVES. INCENTIVES WILL BE PREPARED BY THE ARCHITECT FOR PAYMENT DIRECTLY TO THE OWNER.
  - PRODUCTS LISTED ON THE FIXTURE SCHEDULE ARE DONE SO AS A BASIS OF SPECIFICATION AND DESIRED QUALITY. PRODUCTS MAY ALSO HAVE BEEN SELECTED IN COMPLIANCE WITH UTILITY INCENTIVE PROGRAMS AND REQUIREMENTS. PRODUCTS MEETING ALL DESIRED REQUIREMENTS MAY BE SUBMITTED AS SUBSTITUTIONS, PENDING FINAL APPROVAL OF ANY AND ALL PRODUCTS, OPTIONS, AND COMPONENTS AS DETERMINED BY THE ARCHITECT.
  - GENERALLY, SUBMIT PRODUCTS FROM THE FOLLOWING FAMILIES OF MANUFACTURED COMMERCIAL PRODUCTS:
    - COOPER.
    - HUBBELL.
    - LIGHTOLIER.
    - LITHONIA.
  - ALL LED FIXTURES SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:
    - MEET THE HIGH-PERFORMANCE REQUIREMENTS OF EITHER ENERGY STAR OR DESIGN LIGHTS CONSORTIUM, AND OBTAIN THEIR APPROVAL AND LISTING.
    - SYSTEM LIFE RATED TO RETAIN A MINIMUM OF 70% LIGHT OUTPUT AT 50,000 HOURS OF USE. (L70 AT 50,000 HOURS).
    - 80 CRI MIN.
  - ALL EXIT AND EMERGENCY LIGHTING SHALL BE WIRED WITH A CONSTANT HOT WIRE AHEAD OF THE SWITCHING SERVING THAT AREA. AT NO TIME SHALL THIS LIGHTING BE SWITCHED.
  - PROVIDE ADAPTERS AS REQUIRED FOR DEPTHS OF CONSTRUCTION AT EACH LOCATION.
  - PROVIDE PROPER TRIM AND MOUNTING AS REQUIRED FOR EACH CONSTRUCTION TYPE, LOCATION, AND CONDITION.

## Lighting Plan Keynotes

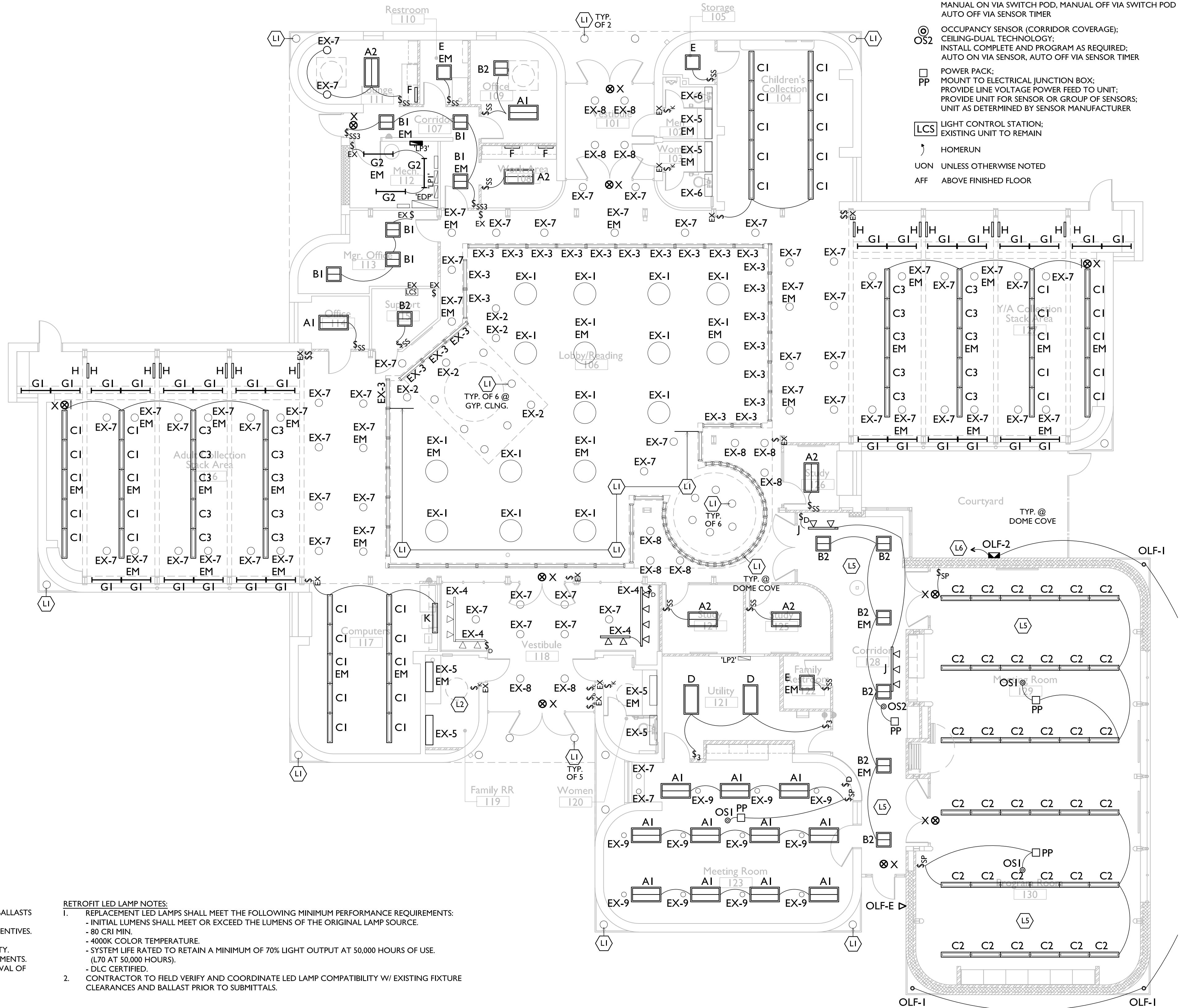
- EXISTING LIGHT FIXTURE PREVIOUSLY CONVERTED TO LED LAMP. NO WORK REQUIRED.
- ALTERNATE NO. 5: PORCELAIN WALL TILE TO BE REPLACED ON WALLS THROUGHOUT ROOM. CONTRACTOR TO PREP EXISTING LIGHT SWITCH TO ACCOMMODATE TILE REMOVAL AND INSTALLATION. RE-INSTALL EXISTING WALL MOUNTED LIGHT FIXTURES AT SAME LOCATIONS TO AFTER NEW TILE INSTALLATION.
- RE-INSTALL EXISTING TRACK LIGHTING AT INDICATED LOCATION; CONNECT LIGHT FIXTURE TO EXISTING ADJACENT LIGHTING CIRCUIT.
- ALL TYPE EX-9 CAN LIGHTS IN ROOM TO BE OPERATED BY NEW DIMMER SWITCH.
- LIGHTING IN THIS AREA TO BE FED FROM EXISTING SUBPANEL 'LP2'. USE EXISTING 20A, 120V BREAKER MADE AVAILABLE FROM DEMOLITION.
- TIE NEW EXTERIOR LIGHTS INTO EXISTING EXTERIOR LIGHTING CIRCUIT.

## General Lighting Replacement Notes

- CONTRACTOR SHALL RE-LAMP AND/OR RETROFIT AND RE-WIRE EXISTING LIGHT FIXTURES TO CONVERT TO LED AS INDICATED ON LIGHT FIXTURE SCHEDULE.
- EXISTING LIGHT SWITCHES, SWITCHING CONFIGURATIONS, AND CIRCUITS ARE TO REMAIN, U.O.N. SEE DRAWING E-001 FOR SPECIFIC DEMOLITION WORK.
- CONTRACTOR TO CONNECT NEW LIGHT FIXTURES WITHIN EXISTING BUILDING TO EXISTING ADJACENT LIGHTING CIRCUIT; EXTEND EXISTING CIRCUIT AS REQUIRED TO NEW LIGHT FIXTURE AND/OR SWITCH LOCATIONS. SEE DRAWING E-001 EXISTING LAYOUT.
- CONTRACTOR TO FIELD VERIFY AND MAINTAIN NIGHT LITE LOCATIONS THROUGHOUT BUILDING.
- PROVIDE NEW COVER PLATES AS REQUIRED FOR NEW LIGHT SWITCH CONFIGURATIONS SHOWN.
- EXTERIOR LIGHT FIXTURES ON THE EXISTING BUILDING AND EXISTING SITE LIGHT FIXTURES ARE TO REMAIN; NO SCOPE OF WORK FOR THIS PROJECT.
- PROVIDE NEW NEUTRAL WIRE AT WALL SENSOR SWITCHES IF REQUIRED BY SENSOR MANUFACTURER.

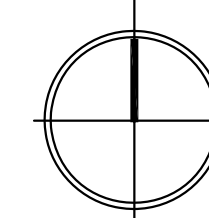
## Lighting Plan Legend

- \$ 20A 120V SINGLE POLE SWITCH; 48" AFF TO BOTTOM OF BOX, U.O.N.
- \$ D 120V DIMMER SWITCH; 48" AFF TO BOTTOM OF BOX, U.O.N.
- \$ SS 120V WALL SENSOR SWITCH; WALL-DUAL TECHNOLOGY; 48" AFF TO BOTTOM OF BOX, U.O.N. MANUAL ON VIA SWITCH, MANUAL OFF VIA SWITCH; AUTO OFF VIA SENSOR TIMER
- \$ SS3 3-WAY 120V WALL SENSOR SWITCH; WALL-DUAL TECHNOLOGY; 48" AFF TO BOTTOM OF BOX, U.O.N. AUTO ON VIA SENSOR, AUTO OFF VIA SENSOR TIMER.
- \$ SP 120V WALL SWITCH POD; 48" AFF TO BOTTOM OF BOX, U.O.N. MANUAL ON VIA SWITCH POD, MANUAL OFF VIA SWITCH POD; AUTO OFF VIA OCCUPANCY SENSOR TIMER
- \$ OS1 OCCUPANCY SENSOR (STANDARD RANGE); CEILING-DUAL TECHNOLOGY; INSTALL COMPLETE AND PROGRAM AS REQUIRED; MANUAL ON VIA SWITCH POD, MANUAL OFF VIA SWITCH POD; AUTO OFF VIA SENSOR TIMER
- \$ OS2 OCCUPANCY SENSOR (CORRIDOR COVERAGE); CEILING-DUAL TECHNOLOGY; INSTALL COMPLETE AND PROGRAM AS REQUIRED; AUTO ON VIA SENSOR, AUTO OFF VIA SENSOR TIMER
- \$ PP POWER PACK; MOUNT TO ELECTRICAL JUNCTION BOX; PROVIDE LINE VOLTAGE POWER FEED TO UNIT; PROVIDE UNIT FOR SENSOR OR GROUP OF SENSORS; UNIT AS DETERMINED BY SENSOR MANUFACTURER
- \$ LCS LIGHT CONTROL STATION; EXISTING UNIT TO REMAIN
- \$ HOMERUN
- \$ UN UNLESS OTHERWISE NOTED
- \$ AFF ABOVE FINISHED FLOOR



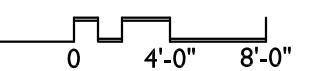
- RETROFIT LED LAMP NOTES:**
- REPLACEMENT LED LAMPS SHALL MEET THE FOLLOWING MINIMUM PERFORMANCE REQUIREMENTS:
    - INITIAL LUMENS SHALL MEET OR EXCEED THE LUMENS OF THE ORIGINAL LAMP SOURCE.
    - 80 CRI MIN.
    - 4000K COLOR TEMPERATURE.
    - SYSTEM LIFE RATED TO RETAIN A MINIMUM OF 70% LIGHT OUTPUT AT 50,000 HOURS OF USE. (L70 AT 50,000 HOURS).
    - DLC CERTIFIED.
  - CONTRACTOR TO FIELD VERIFY AND COORDINATE LED LAMP COMPATIBILITY W/ EXISTING FIXTURE CLEARANCES AND BALLAST PRIOR TO SUBMITTALS.

North



## Lighting Plan

full size plot scale: 1/8"=1'-0"



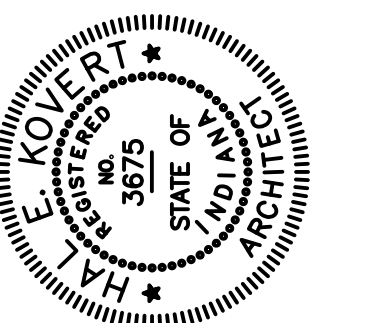
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Drawn: HG  
Checked By: HK  
Project No.: 1723.02  
Date: 12/07/2017

Revisions: 1  
2  
3  
4  
5  
6



**2018 Renovation & Addition**  
**Clarksville Branch Library**  
Jeffersonville Township Public Library  
1312 Eastern Boulevard  
Clarksville, Indiana 47129

Sheet  
**E-101**



# Electrical Power Legend

- 20A 120VOLT DUPLEX RECEPTACLE  
24" AFF TO BOTTOM U.O.N. (@ EXIST. BLDG.)  
16" AFF TO BOTTOM U.O.N. (@ ADDITION)
- 20A 120VOLT DUPLEX RECEPTACLE  
MOUNT ABOVE COUNTER - AVOID BACKSPASH
- 20A 120VOLT QUADPLEX RECEPTACLE  
24" AFF TO BOTTOM U.O.N. (@ EXIST. BLDG.)  
16" AFF TO BOTTOM U.O.N. (@ ADDITION)
- EXISTING DATA DEVICE
- PHONE / DATA DEVICE  
EMPTY SINGLE GANG BOX W/ PLASTER RING  
24" AFF TO BOTTOM U.O.N. (@ EXIST. BLDG.)  
16" AFF TO BOTTOM U.O.N. (@ ADDITION)  
PROVIDE 1" CONDUIT WITH PULLSTRING TO NEAREST ACCESSIBLE CEILING;  
DEVICE AND WIRING BY OWNER'S SEPARATE TECHNOLOGY CONTRACTOR
- VIDEO DISPLAY DEVICE  
EMPTY SINGLE GANG BOX W/ PLASTER RING  
24" AFF TO BOTTOM U.O.N. (@ EXIST. BLDG.)  
16" AFF TO BOTTOM U.O.N. (@ ADDITION)  
SEE DETAIL I/E-201 FOR ADDITIONAL INFORMATION;  
DEVICE AND WIRING BY OWNER'S SEPARATE TECHNOLOGY CONTRACTOR
- EXISTING ELECTRICAL PANEL
- NEW ELECTRICAL PANEL
- JUNCTION BOX
- DOOR OPERATOR; PROVIDE 120V POWER AND  
1/2" CONDUIT TO ADJACENT PUSH PLATES.
- PUSH PLATE WALL SWITCH; PROVIDE (1) 4 SQUARE BOX  
WITH (1) 1/2" CONDUIT TO DOOR OPERATOR
- SPEAKER VOLUME CONTROLLER;  
SEE SPECIFICATION SECTION 16199
- RECESSED CEILING SPEAKER;  
SEE SPECIFICATION SECTION 16199
- UNDERFLOOR CONDUITS; SAWCUT FLOOR SLAB AS REQUIRED.  
CONDUITS TO TURN UP CONCEALED IN EXISTING  
CONSTRUCTION; PATCH AND REPAIR GYP. BD. AS REQUIRED.
- HEAVY DUTY FUSED DISCONNECT SWITCH  
FUSE PER NAMEPLATE
- 2-GANG RECESSED FLOOR BOX  
EQUAL TO: "HUBBELL" #CFB2G25CR;  
PROVIDE RECTANGULAR COVER (ALUMINUM FINISH) WITH FLOORING INSERT;  
PROVIDE (1) DUPLEX RECEPTACLE;  
PROVIDE (1) SINGLE GANG BOX FOR FUTURE WITH 1" CONDUIT AND PULL STRING  
TO ABOVE ACCESSIBLE CEILING.
- 2-GANG RECESSED FLOOR BOX  
EQUAL TO: "HUBBELL" #CFB2G25CR;  
PROVIDE RECTANGULAR COVER (ALUMINUM FINISH) WITH FLOORING INSERT;  
PROVIDE (1) DUPLEX RECEPTACLE;  
PROVIDE (1) SINGLE GANG BOX FOR VIDEO DISPLAY DEVICE WITH 1" CONDUIT  
AND PULL STRING TO ADJACENT VIDEO DISPLAY DEVICE IN WALL THEN UP TO  
ABOVE ACCESSIBLE CEILING
- 4-GANG RECESSED FLOOR BOX  
EQUAL TO: "HUBBELL" #CFB4G25CR;  
PROVIDE RECTANGULAR COVER (ALUMINUM FINISH) WITH FLOORING INSERT;  
PROVIDE (2) DUPLEX RECEPTACLES;  
PROVIDE (1) SINGLE GANG BOX FOR DATA WITH 1" CONDUIT AND PULL  
STRING TO ABOVE ACCESSIBLE CEILING
- 4-GANG RECESSED FLOOR BOX  
EQUAL TO: "HUBBELL" #CFB4G25CR;  
PROVIDE RECTANGULAR COVER (ALUMINUM FINISH) WITH FLOORING INSERT;  
PROVIDE (3) DUPLEX RECEPTACLES;  
PROVIDE (1) SINGLE GANG BOX FOR DATA WITH 1" CONDUIT AND PULL  
STRING TO ABOVE ACCESSIBLE CEILING
- EX EXISTING TO REMAIN

# General Fire Alarm Notes

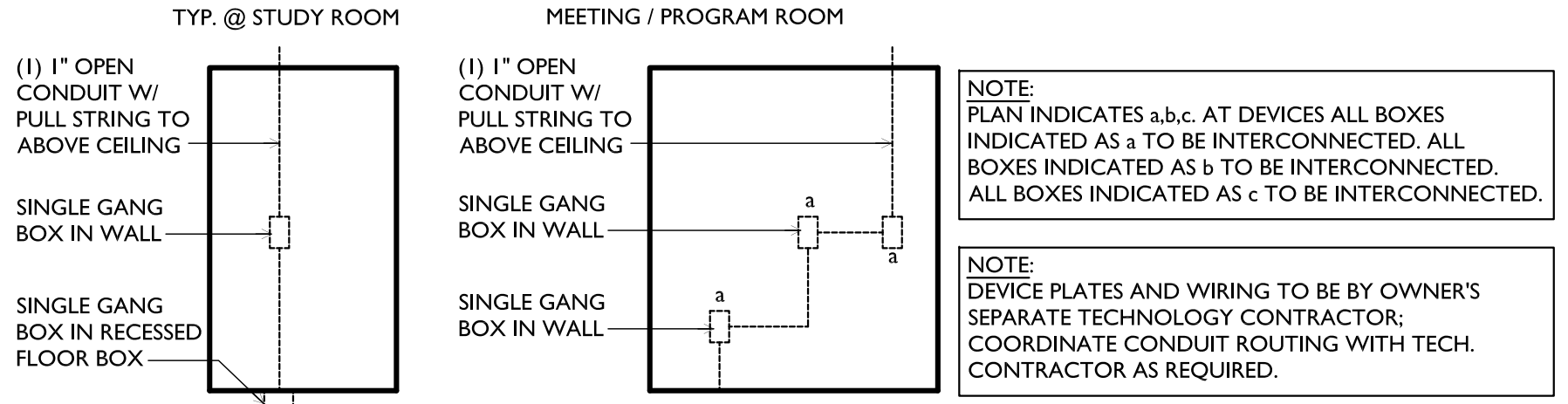
1. REPLACE EXISTING FIRE ALARM CONTROL PANEL.
2. REPLACE ALL VISUAL AND AUDIO/VISUAL UNITS WITH MULTI-CANDELA XENON STROBES.
3. ADD NEW DEVICES AS SHOWN ON DRAWINGS. TIE INTO NEW FIRE ALARM CONTROL PANEL.
4. EXISTING DEVICES (OTHER THAN VISUAL AND AUDIO/VISUAL UNITS) CAN BE RE-USED IF CAPABLE WITH NEW FIRE ALARM CONTROL PANEL.
5. EXISTING WIRING CAN BE RE-USED IF CAPABLE WITH NEW FIRE ALARM CONTROL PANEL.
6. NEW DOOR HOLDERS SHALL BE 120V AND CONTROLLED BY NEW FIRE ALARM CONTROL PANEL.
7. FIRE ALARM SYSTEM SHALL BE TESTED AND CERTIFIED PRIOR TO CERTIFICATE OF OCCUPANCY.
8. A FULLY FUNCTIONAL FIRE ALARM SYSTEM MUST BE MAINTAINED AT ALL TIMES THE BUILDING IS OCCUPIED.
9. IN GENERAL, DEVICES ARE TO BE RECESSED IN NEW OR EXISTING CONSTRUCTION. NOTIFY ARCHITECT OF ANY SPECIFIC DEVICES WHERE THIS CONDITION IS NOT PERMITTED.
10. CONTRACTOR/SUPPLIER RESPONSIBLE FOR A COMPLETE WORKING AND OPERABLE FIRE ALARM SYSTEM. PROVIDE ALL DEVICES AND WIRING (WITH ALLOWABLE VOLTAGE DROP) WHETHER SHOWN OR NOT AS PER N.F.P.A.

PANEL	200 AMPERES	M.L.O.	MAIN CONNECTION	2" CONDUIT WITH 4-#3/0 CU. & 1-#6 CU. GROUND	FEEDER							
LP3	120/208 VOLTS	THREE PHASE	SURFACE MOUNTING	COPPER BUS								
	WIRE	22 KAIC	NO	S.E.L.								
CIRC. NO.	ITEM FED	WATTS	WIRE SIZE	AMPS	POLE	CU. BUS	POLE	AMPS	WIRE SIZE	WATTS	ITEM FED	CIRC. NO.
1	VAV-6	1600	12	20	3	A	2	15	12	1100	VAV-10	2
3	---	1600	---	---	---	B	---	---	---	1100	---	4
5	---	1600	---	---	---	C	2	25	10	1600	VAV-11	6
7	VAV-7	750	12	15	2	A	---	---	---	1600	---	8
9	---	750	---	---	---	B	2	20	12	1500	VAV-12	10
11	VAV-8	2300	10	30	3	C	---	---	---	2300	---	12
13	---	2300	---	---	---	A	3	30	10	2600	VAV-13	14
15	---	2300	---	---	---	B	---	---	---	2600	---	16
17	VAV-8	1500	12	20	3	C	---	---	---	2600	---	18
19	---	1500	---	---	---	A	3	30	10	2300	VAV-14	20
21	---	1500	---	---	---	B	---	---	---	2300	---	22
23	---	1500	---	---	---	C	---	---	---	2300	---	24
25	---	---	---	---	---	A	---	---	---	---	---	26
27	---	---	---	---	---	B	---	---	---	---	---	28
29	---	---	---	---	---	C	---	---	---	---	---	30
31	---	---	---	---	---	A	---	---	---	---	---	32
33	---	---	---	---	---	B	---	---	---	---	---	34
35	---	---	---	---	---	C	---	---	---	---	---	36
37	---	---	---	---	---	A	---	---	---	---	---	38
39	---	---	---	---	---	B	---	---	---	---	---	40
41	---	---	---	---	---	C	---	---	---	---	---	42

\* SUBPANEL 'LP3' TO BE FED FROM EXISTING MAIN PANEL 'EDP'. INSTALL NEW BREAKER AS REQUIRED.  
\* SUPANEL 'LP3' ONLY REQUIRED IF ALTERNATE #8B OR ALTERNATE #8C IS ACCEPTED.

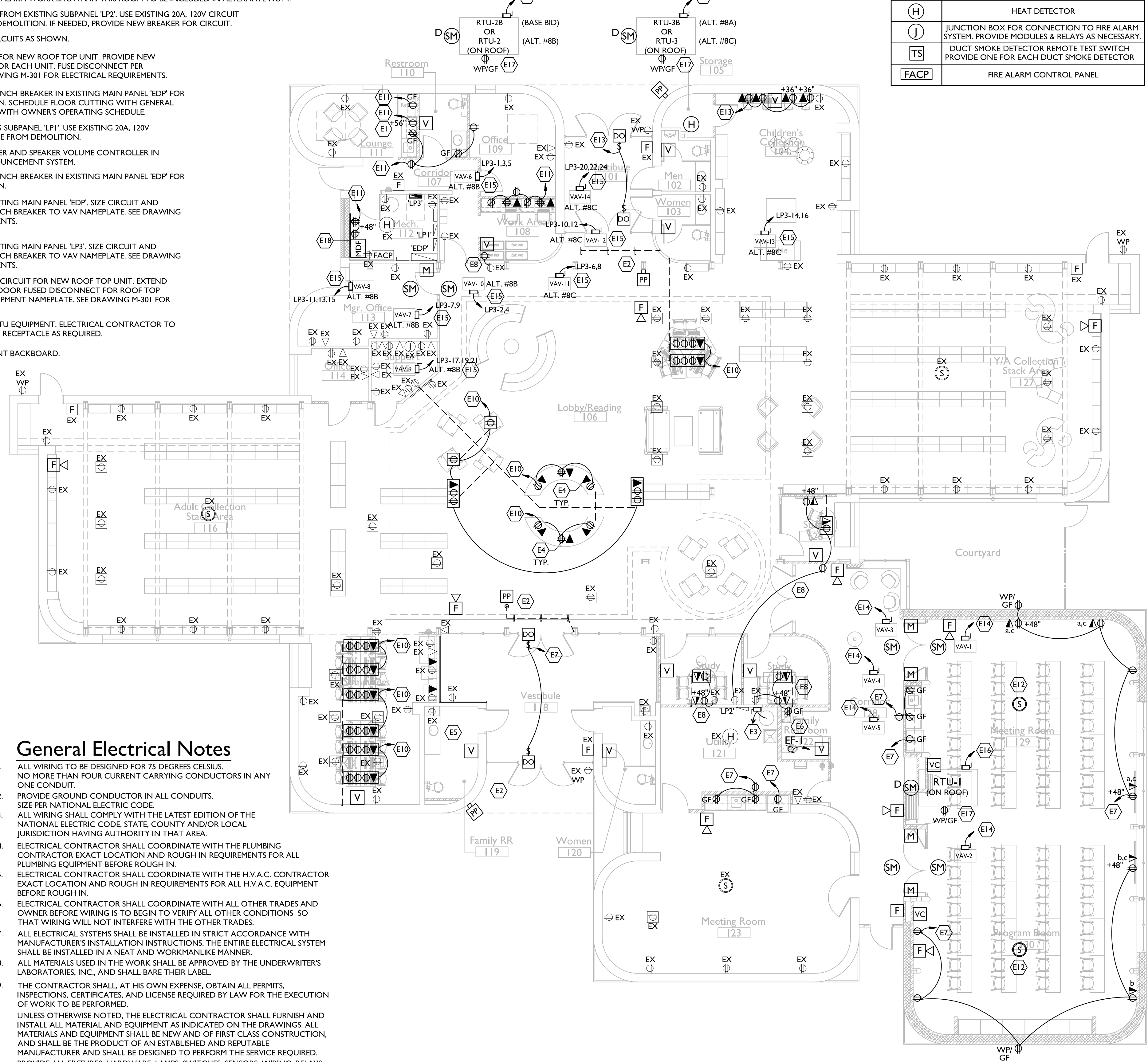
# Electrical Power Plan Keynotes

- RECEPTACLE FOR MICROWAVE. VERIFY EXACT HEIGHT AND LOCATION WITH EQUIPMENT DRAWINGS PRIOR TO ROUGH-IN.
- PROVIDE ALL CONNECTIONS REQUIRED BETWEEN DOOR OPERATORS AND PUSH PLATES FOR A COMPLETE AND OPERABLE SYSTEM. ALL WIRING TO BE FISHED AND CONCEALED IN EXISTING CONSTRUCTION.
- EXTEND 208V, SINGLE PHASE POWER CIRCUIT FOR RELOCATED WATER HEATER AS REQUIRED. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- DEVICES TO BE INSTALLED IN NEW CIRCULATION DESK; COORDINATE ROUGH-IN REQUIREMENTS WITH FURNITURE SUPPLIER/INSTALLER.
- ALTERNATE NO. 5- PORCELAIN WALL TILE TO BE REPLACED ON WALLS THROUGHOUT ROOM. CONTRACTOR TO PREP EXISTING DEVICES TO ACCOMMODATE TILE REMOVAL AND INSTALLATION.
- ALTERNATE NO. 4- ALL ELECTRICAL POWER AND FIRE ALARM WORK SHOWN IN THIS ROOM TO BE INCLUDED IN ALTERNATE NO. 4.
- CIRCUITS IN THIS AREA TO BE FED FROM EXISTING SUBPANEL 'LP2'. USE EXISTING 20A, 120V CIRCUIT BREAKER MADE AVAILABLE FROM DEMOLITION. IF NEEDED, PROVIDE NEW BREAKER FOR CIRCUIT.
- TIE NEW DEVICES TO EXISTING CIRCUITS AS SHOWN.
- USE EXISTING ROOF TOP CIRCUIT FOR NEW ROOF TOP UNIT. PROVIDE NEW OUTDOOR FUSED DISCONNECT FOR EACH UNIT. FUSE DISCONNECT PER EQUIPMENT NAMEPLATE. SEE DRAWING M-301 FOR ELECTRICAL REQUIREMENTS.
- USE EXISTING SPARE 20A, 120V BRANCH BREAKER IN EXISTING MAIN PANEL 'EDP' FOR NEW OUTLETS. CIRCUIT AS SHOWN. SCHEDULE FLOOR CUTTING WITH GENERAL CONTRACTOR TO COORDINATE WITH OWNER'S OPERATING SCHEDULE.
- FEED THIS CIRCUIT FROM EXISTING SUBPANEL 'LP1'. USE EXISTING 20A, 120V BRANCH BREAKER MADE AVAILABLE FROM DEMOLITION.
- TIE NEW RECESSED CEILING SPEAKER AND SPEAKER VOLUME CONTROLLER IN ROOM TO EXISTING PUBLIC ANNOUNCEMENT SYSTEM.
- USE EXISTING SPARE 20A, 120V BRANCH BREAKER IN EXISTING MAIN PANEL 'EDP' FOR NEW OUTLETS. CIRCUIT AS SHOWN.
- ROUTE NEW VAV CIRCUIT TO EXISTING MAIN PANEL 'EDP'. SIZE CIRCUIT AND FURNISH AND INSTALL NEW BRANCH BREAKER TO VAV NAMEPLATE. SEE DRAWING M-301 FOR ELECTRICAL REQUIREMENTS.
- ALTERNATES NO. 8B & 8C- ROUTE NEW VAV CIRCUIT TO EXISTING MAIN PANEL 'LP3'. SIZE CIRCUIT AND FURNISH AND INSTALL NEW BRANCH BREAKER TO VAV NAMEPLATE. SEE DRAWING M-301 FOR ELECTRICAL REQUIREMENTS.
- USE EXISTING CONDENSING UNIT CIRCUIT FOR NEW ROOF TOP UNIT. EXTEND CIRCUIT AND PROVIDE NEW OUTDOOR FUSED DISCONNECT FOR ROOF TOP UNIT. FUSE DISCONNECT PER EQUIPMENT NAMEPLATE. SEE DRAWING M-301 FOR ELECTRICAL REQUIREMENTS.
- GFCI RECEPTACLE PROVIDED W/ RTU EQUIPMENT. ELECTRICAL CONTRACTOR TO PROVIDE CIRCUIT TO POWER GFCI RECEPTACLE AS REQUIRED.
- 4"x6" Wx3/4" FIRE RATED EQUIPMENT BACKBOARD.

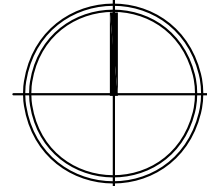


# Video Display Device

E-201 full size plot scale: No Scale

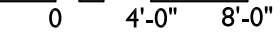


North



# Power Plan

full size plot scale: 1/8"=1'-0"



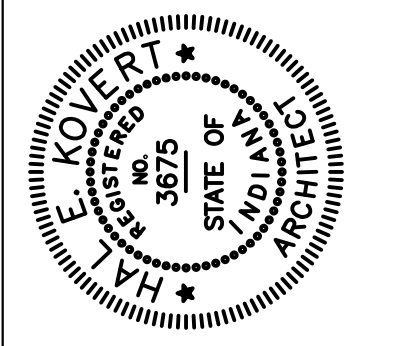
# Fire Alarm Symbol Legend

SYM.	DESCRIPTION
	PULL STATION
	WALL MOUNTED AUDIO/VISUAL UNIT
	WALL MOUNTED VISUAL UNIT
	MAGNETIC DOOR HOLDER
	CEILING SMOKE DETECTOR
	DUCT MOUNTED SMOKE DETECTOR
	HEAT DETECTOR
	JUNCTION BOX FOR CONNECTION TO FIRE ALARM SYSTEM. PROVIDE MODULES & RELAYS AS NECESSARY.
	DUCT SMOKE DETECTOR REMOTE TEST SWITCH PROVIDE ONE FOR EACH DUCT SMOKE DETECTOR
	FIRE ALARM CONTROL PANEL

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Drawn	HG
Checked By	HK
Project No.	1723.02
Date	12/07/2017



2018 Renovation & Addition  
**Clarksville Branch Library**  
Jeffersonville Township Public Library  
1312 Eastern Boulevard  
Clarksville, Indiana 47129

## Security Camera System General Notes

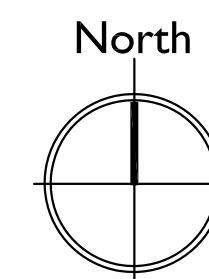
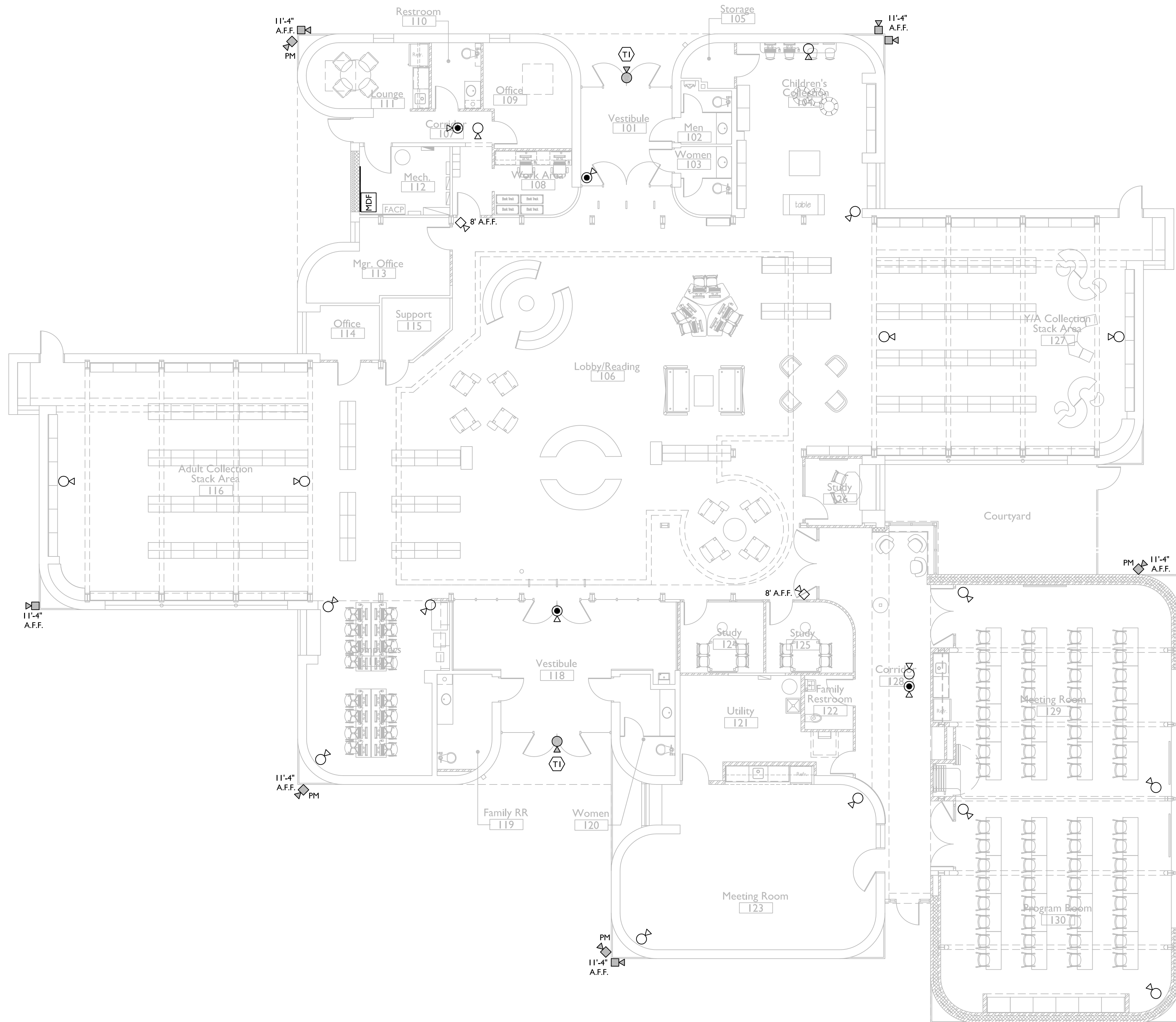
- CAMERA LOCATIONS SHOWN ARE DIAGRAMMATIC. CONTRACTOR TO FIELD COORDINATE EXACT CAMERA LOCATIONS TO PROVIDE OPTIMAL SIGHT LINES AND COVERAGE.
- REFER TO REFLECTED CEILING PLAN FOR CEILING AND SOFFIT LAYOUT AND HEIGHTS.
- ELECTRICAL CONTRACTOR AND OWNER'S SEPARATE TECHNOLOGY CONTRACTOR ARE TO WORK TOGETHER AND IN CONJUNCTION WITH THE OWNER AND ARCHITECT TO COORDINATE CAT CABLE TERMINATIONS AND CABLE LABELLING.
- ITEMS ON THESE DRAWINGS ARE REFERRED TO IN A GENERIC FORM FOR TYPE OF PRODUCT TO BE USED (I.E., CAT CABLE, COAX CABLE, PHONE, ETC.). SEE SPECIFICATIONS FOR EXPLICIT PRODUCT SELECTIONS.
- DISTANCE FOR RUNS OF TECHNOLOGY CABLE FROM THE TERMINATION TO THE ULTIMATE DEVICE LOCATION, INCLUDING UPS AND DOWNS, SHALL BE NO LONGER THAN 300'. IF ANY RUN APPEARS TO BE OUTSIDE THIS THRESHOLD, CONSULT THE ARCHITECT DURING BIDDING FOR DISCUSSION ON POSSIBLE ALTERNATE ROUTING OR OTHER POSSIBLE ALTERNATIVES AND SOLUTIONS.
- IN GENERAL, ALL CAT CABLE NOT PLACED WITHIN CONDUIT SHALL BE RUN IN CABLE TRAYS OR SUPPORTED BY WIRING RINGS.
- IN GENERAL, ALL CABLING SHALL BE INSTALLED CONCEALED FROM VIEW (WITHIN WALLS, ABOVE CEILINGS, ETC.).
- SEE PLAN LEGEND FOR SYMBOLS INDICATING LOCATIONS OF SPECIFIC ITEMS.
- THE INTENT IS TO TERMINATE ALL CAT CABLES FOR SECURITY CAMERAS AT PATCH PANELS PROVIDED BY OWNER'S SEPARATE TECHNOLOGY CONTRACTOR AT MDF IN MECH. 112. INSTALL SERVER AND DVR IN MDF RACK.

## Security Camera Legend

- INTERIOR CAMERA (LAY-IN CEILING TYPE); CENTER WITHIN LAY-IN CEILING TILE; PROVIDE AND TERMINATE (1) CAT CABLE TO CAMERA; TERMINATE CABLE AT COMPUTER RACK INTO PATCH PANEL
- INTERIOR CAMERA (LAY-IN CEILING TYPE - POINT OF ENTRY); CENTER WITHIN LAY-IN CEILING TILE; PROVIDE AND TERMINATE (1) CAT CABLE TO CAMERA; TERMINATE CABLE AT COMPUTER RACK INTO PATCH PANEL
- INTERIOR CAMERA (SURFACE-MOUNT TYPE); PROVIDE AND TERMINATE (1) CAT CABLE TO CAMERA; TERMINATE CABLE AT COMPUTER RACK INTO PATCH PANEL
- EXTERIOR CAMERA (SURFACE-MOUNT TYPE); SURFACE MOUNT TO BUILDING WALL AND POKE-THRU WIRING TO CAMERA; PROVIDE AND TERMINATE (1) CAT CABLE TO CAMERA; TERMINATE CABLE AT COMPUTER RACK INTO PATCH PANEL
- EXTERIOR CAMERA (POST-MOUNT TYPE); POST MOUNT TO BUILDING WALL AND POKE-THRU WIRING TO CAMERA; PROVIDE AND TERMINATE (1) CAT CABLE TO CAMERA; TERMINATE CABLE AT COMPUTER RACK INTO PATCH PANEL
- EXTERIOR CAMERA (SURFACE-MOUNT TYPE); SURFACE MOUNT TO BUILDING SOFFIT AND POKE-THRU WIRING TO CAMERA; PROVIDE AND TERMINATE (1) CAT CABLE TO CAMERA; TERMINATE CABLE AT COMPUTER RACK INTO PATCH PANEL
- NEW WALL MOUNTED MDF RACK IN MECH. 112. RACK AND PATCH PANELS FURNISHED AND INSTALLED BY OWNER'S SEPARATE TECHNOLOGY CONTRACTOR. VERIFY EXACT INSTALLED LOCATION AND REQUIREMENTS FOR CONNECTIONS.
- DENOTES DETAIL TO REFERENCE;  
X ABOVE - DETAIL NUMBER  
X-xxx BELOW - SHEET REFERENCE

## Security Camera Keynotes

- CUT AND PATCH GYP. BD. ABOVE CEILING IN VESTIBULE AS REQUIRED TO FISH WIRING TO INSTALL NEW EXTERIOR CAMERA MOUNTED ON EXISTING SOFFIT. CUT AND PATCH EXISTING SOFFIT AS REQUIRED FOR CAMERA INSTALLATION.



## Security Surveillance System - Camera Plan

full size plot scale: 1/8"=1'-0"

0 4'-0" 8'-0"

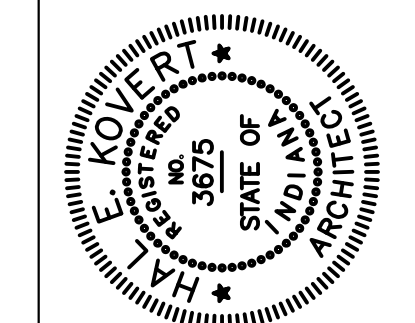
### Notice

The Architect/Engineer does not define the scope of individual trades, subcontractors, material suppliers, or vendors. Any sheet numbering system used which identifies disciplines is solely for the Architect/Engineer's convenience, and is not intended to define a subcontractor's scope of work. Information regarding individual trades, subcontractors, material suppliers, and vendors may be detailed, described and indicated at different locations throughout these documents. No consideration will be given to requests for change orders for failure to obtain and review the complete set of drawings and specifications when preparing bids, prices, and quotations.



Drawn	HG
Checked By	HK
Project No.	1723.02
Date	12/07/2017

Revisions	1
	2
	3
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2018 Renovation & Addition  
**Clarksville Branch Library**  
Jeffersonville Township Public Library  
1312 Eastern Boulevard  
Clarksville, Indiana 47129

Sheet

T-101