



DAVIS
PARTNERSHIP
ARCHITECTS

ADDENDUM NO: 03

Date Issued: December 9, 2015

**Re: Red Rocks Community College
Student Recreation Center**
Construction Documents, Dated November 9, 2015
Architect's Project No. 15803.00

*This Addendum is part of the construction Documents and contains additions, deletions, changes, and clarifications to **Construction Documents dated November 9, 2015**. Items noted herein shall be included in the Work and all bids submitted. Bidders shall acknowledge receipt of this Addendum in their bid.*

SUBSTITUTION REQUESTS:

- ADD. #3-1. Add the following as an approved manufacturer to Specification 08 4513 – Structured-Polycarbonate-Panel Assemblies
1. **08 4513_2.2_A1 – AIA Industries: AIA Eco-Wall 2560 50 mm – Color: Opal.**
- ADD. #3-2. Add the following as an approved manufacturer to Specification 09 0500 – Floor Preparation:
1. **09 0500 Part 2_2.1_A4 – Concrete Waterproofing Products: Creteseal CS2000**
- ADD. #3-3. Dynamic Sports Construction, Inc for Division 09 6566 – Not Approved.
- ADD. #3-4. Aacer Flooring for Division 09 6566 – Not Approved.
- ADD. #3-5. Dynamic Sports Construction, Inc for Division 09 6468 – Not Approved.
- ADD. #3-6. Aacer Flooring for 09 6468 – Not Approved.
- ADD. #3-7. Add the following as an approved manufacturer to Specification 11 6623 – Gymnasium Equipment:
1. **11 6623_2.2_B (Basketball Equipment): Jaypro Sports**
 2. **11 6623_2.3_A (Volleyball Equipment): Jaypro Sports**
 3. **11 6623_2.4_A (Badminton Equipment): Jaypro Sports**
 4. **11 6623_2.5_A (Pull-up Bar): Jaypro Sports**
 5. **11 6623_2.7_A (Safety Pads): Jaypro Sports**
- ADD. #3-8. Add the following as an approved manufacturer to Specification 11 3100 – Residential Appliances.
1. **11 3100_2.3_A: Alliance Laundry Systems – Speed Queen.**

ADD. #3-9. Add the following as an approved manufacturer to Specification 28 3100 Fire Detection and Alarm.

1. **28 3100 Part 2 2.1 A – Fike Cybercat**

ADD. #3-10. Add the following as approved manufacturer's to Specifications:

1. **23 34 00 2.1 A. – Add Macro Air**
2. **23 81 26 2.1 A. – Add Daikin AC**
3. **23 73 13 2.1 A. – Add Alliance Air Products**
4. **23 82 00 2.1 A. – Add Sigma Products**

ADD. #3-11. The following light fixtures were proposed by MH Lighting, please see table below for acceptance.

A4	Pinnacle Lighting	EX4B-A-O-CL35320-CL35640-4-AC48***-277-1D-S	REJECTED
A4X	Pinnacle Lighting	EX4B-A-O-CL35320-CL35640-4-AC48***-277-1D/1B-S	REJECTED
A8	Pinnacle Lighting	EX4B-A-O-CL35320-CL35640-8AC48***-277-1D-S	REJECTED
A8X	Pinnacle Lighting	EX4B-A-O-CL35320-CL35640-8AC48***-277-1D/1B-S	REJECTED
A12	Pinnacle Lighting	EX4B-A-O-CL35320-CL35640-12AC48***-277-1D-S	REJECTED
A14	Pinnacle Lighting	EX4B-A-O-CL35320-CL35640-14AC48***-277-1D-S	REJECTED
A18	Pinnacle Lighting	EX4B-A-O-CL35320-CL35640-18AC48***-277-1D-S	REJECTED
A18X	Pinnacle Lighting	EX4B-A-O-CL35320-CL35640-18AC48***-277-1D/1B-S	REJECTED
B	Columbia	LLHV-4-35-V-W-ST-E-277-ELL14-CA	REJECTED
C	Columbia	LJT24-35MLG-FSA12125-EU	ACCEPTED
D	Conservation Technology, Inc.	RA4LNC-135K27D2 CTR4322LM-CLR	ACCEPTED
D1	Conservation Technology, Inc.	RA4LNC-135K27D2 CTR4327L-CLR-*	ACCEPTED
G	Columbia	LCR-4-35-ML-ESDU LCLWG4	ACCEPTED
GX	Columbia	LCR-4-35-ML-ESDU-ELL14 LCLWG4	ACCEPTED
H	LiteControl	G-D-LHEL-24-35K-25-CWM-D10-277	ACCEPTED
HX	LiteControl	G-D-LHEL-24-35K-25-CWM-D10-277EF	ACCEPTED
J	Tempo Industries	C6-S-0-0-12-10-12-UNV-E-5-S-35-S-LG	ACCEPTED
KX	Pinnacle Lighting	EX3B-A-0-CL35560-CL35560-4-WA277-1D/1B-W	ACCEPTED
L3	Pinnacle Lighting	EX3B-A-0-CL35560-CL35560-3-WA277-1D-W	ACCEPTED
L4	Pinnacle Lighting	EX3B-A-0-CL35560-CL35560-4-WA277-1D-W	ACCEPTED
L4X	Pinnacle Lighting	EX3B-A-0-CL35560-CL35560-4-WA277-1D/1B-W	ACCEPTED
M3-3	Tempo Industries	C6-R-0-0-12-72-12-UNV-ELV-5-D-35-SLG	REJECTED
M4-4	Tempo Industries	C6-R-0-0-12-72-12-UNV-ELV-5-D-35-SLG	REJECTED
N2	Pinnacle Lighting	E4A-35HO-2-FL-277-1D-W	ACCEPTED
N4	Pinnacle Lighting	E4A-35HO-4-FL-277-1D-W	ACCEPTED
N4X	Pinnacle Lighting	E4A-35HO-4-FL-277-1D/1B-W	ACCEPTED
P	Lumetta	P2448-*-LED3/LED REPLACEMENT LAMPS	REJECTED

Q	Eureka Lighting	4704-LED.10.30-277-DV-WH-WH-CHR	REJECTED
U	Vode Lighting	107-RR-01-**-**-CC-48-4R-AE-2-0-ZSO-35-2-0-AL-0	REJECTED
V	Elliptipar Inc.	S305-R01M-S-00-277M-0-30-*	ACCEPTED
V ALT	Tempo Industries	C6-R-0-0-12-37-12-277-E-10-S-30-SWH ALT	REJECTED
W	LBL Lighting	BA841OYSCLED830277 Denton 48 Bath OY SN LED830277	REJECTED
X	Dual Lite Emergency	LE*****	ACCEPTED
Y	Lumetta	P53414-**-**-LED-277	REJECTED
AAX	LEDS-C4	C4 05-9531-34-T2U	REJECTED
BB	Prescolite	LBSLEDA10L 30K 8 WH 277	ACCEPTED
DD	Prescolite	LD6LED4PW35K8 277 PW Z	REJECTED
DD1	Kurt Versen	L135-10-35-SS-PC(SILVER)-P5	REJECTED
GG	Bruck, A Ledrabrands Company	138531MC/3 138530 138536	REJECTED
HH	Insight Lighting	5SP-15-RGB-HSL-SMS-INT-2-**+ DMX	ACCEPTED
JJ	Bega Lighting	7321LED LED bollard with fully shielded light source	REJECTED
LL	Columbia	LCL2-30HL-EU	ACCEPTED
RP1	Vantage Controls	LCAP44H-2 LCAP-OPT-C-1 COMM PANEL 44 IN HYBRID MAINW/ 2 LVOS & POE NET SWITCH	ACCEPTED
RP1	Vantage Controls	LCAP44 COMM ENCLOSURE 44 IN W/DOOR	ACCEPTED
RP1	Watt Stopper	EM-24D2 DC Low Voltage Photocell	ACCEPTED
RP1	Watt Stopper	BZ-50 Power Pack, 120-277V, 50/60Hz,24VDC, 225mA	ACCEPTED
RP1	Vantage Controls	CIS10-DIN CONTACT INPUT STATION 10 - DIN	ACCEPTED
RP1	Watt Stopper	LS-E8 8inX8inX4in Enclosure for LCOLCD	ACCEPTED
DH-PC	Vantage Controls	EM-LIGHTSENSOR AMBIENT LIGHT LEVEL SENSOR FORENERGY MGMT DIMG SHADE CONT	ACCEPTED
DH-PC	Vantage Controls	LVOS-0-10-PWM-1 LV OUTPUT ST (0-10 & PWM) 120V-277V IN UL RATED ENCL	ACCEPTED
SW-4B	Vantage Controls	KS14TE-**-**YA FINISH=SPECIFY STANDARD FINISH KS - EASYTOUCH II WITH TRIM 1-G 4-BTN ENGRAVED	ACCEPTED

SW-5B	Vantage Controls	KS15TE-***YA FINISH=SPECIFY STANDARD FINISH KS - EASYTOUCH II WITH TRIM 1-G 5-BTN ENGRAVED	ACCEPTED
SW-KP	Vantage Controls	FP1DTE-***NP FINISH=SPECIFY STANDARD FINISH FP - EASYTOUCH II TRIMLINE IIPLA 1-G DECORA	ACCEPTED
SW-KP	Vantage Controls	EQ41TB-TI EQUINOX 4 LCD SINGLE WIDGET BLACK TITANIUM	ACCEPTED
SW-TS	Vantage Controls	EQ73TB-TI-II EQUINOX 73 II LCD TRIPLEWIDGET BLACK TITANIUM	REJECTED
SW-TS	Vantage Controls	EQ73ST-INSTALL EQUINOX 73 LCD STANDARD INSTALL	REJECTED
SW-TS	Vantage Controls	EQ-APP-X EQUINOX APP LICENSE UNLIMITED	REJECTED
MD-CC	Vantage Controls	DMX-DALI-GW MX DALI GATEWAY	REJECTED
MD-CC	Watt Stopper	LS-E8 8inX8inX4in Enclosure for LCOLCD	REJECTED
RC-D1	Watt Stopper	LMRC-211 Digital V.2 Sggle Relay Rm Controller, On/Off/ 0-10v dimm	ACCEPTED
OS-DC	Watt Stopper	LMDC-100 Digital Dual Tech CeilingMount Sensor	ACCEPTED
SW-DM	Watt Stopper	LMDM-101-* FINISH=SPECIFY STANDARD FINISH Digital Dimming Wall Switch,1 paddle, w/ I.R.,	ACCEPTED
MD-IR	Watt Stopper	LMRL-100 Isolated Relay Interface	ACCEPTED
RJ-25	Watt Stopper	LMRJ-P25 RJ45 Cables, 25 feet, plenumrated	ACCEPTED
OS-DW	Watt Stopper	DW-100-24-* FINISH=SPECIFY STANDARD FINISH Dual Tech. Wall Switch Occupancy Sensor, 24V,	ACCEPTED
OS-DC	Watt Stopper	DT-300 Dual Tech Occupancy Sensor 24VDC, center mount 360°	ACCEPTED
OS-PP	Watt Stopper	BZ-50 Power Pack, 120-277V, 50/60Hz,24VDC, 225mA	ACCEPTED
OS-HB	Hubbell Building Automation	WSPSM24V HBA WASP2 Fl. High Bay Sensor with Daylighting, Surface Mnt, 24VDC (Power Pack Required), Form C Relay	ACCEPTED
OS-HB	Hubbell Building Automation	WSPLENS360 HBA WASP2 Fl. High Bay Sensor Lens, 360 Degree Coverage Area, White	ACCEPTED
OS-HB	Hubbell Building Automation	UVPP Universal Voltage Power Pack, 100-277 VAC	ACCEPTED

EM-TD	Functional Devices, Inc	ESRN UL924 Enclosed Relay ESR + BAS input 10 Amp SPDT 120-277 Vac	ACCEPTED
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BID QUESTIONS:

- ADD. #3-12. Need manufacturer and model number for Toilet Room Accessories. marked "As Furnished by owner" in order to match with new TRA's. **RESPONSE: Manufacturer's for Owner Furnished Items has not been selected yet.**
- ADD. #3-13. Where are the two existing ice hockey scoreboards currently located? When can they be removed? **RESPONSE: Language was removed in Addendum 02.**
- ADD. #3-14. Are new scoreboards actual (OFOI) as indicated in the specification? Gym elevations do not indicate if this score board is to be a new (OFOI) or relocated boards from Ice arena **RESPONSE: Clarified in Addendum 02 – Contractor is responsible for furnishing and installing scoreboards.**
- ADD. #3-15. Where in the existing building does the 2 ½" Domestic Water piping tie in at? **RMH RESPONSE: The tie-in is in the crawlspace. It is approximately 400 ft. from the drop at Key Note 3 on Sheet P-101.**
- ADD. #3-16. Please clarify what the existing BAS is, and if the new controls are expected to tie into it. **RMH RESPONSE: The existing system is BACNet compatible Niagara compatible with a tridium platform. Yes, the new controls are expected to tie into the existing to give readout and alarm capabilities on the exiting front end display.**
- ADD. #3-17. Please clarify the location of the building's global controller, as the controls may need to wire BACnet MS/TP to it. **RMH RESPONSE: From our understanding with the building operators there a multiple building controllers in the existing building. The main control is in the Boiler Room (Basement level), by main entry on south.**
- ADD. #3-18. Note 1 on plan page MP-101 referenced a schematic drawing for the heating system. Where is this drawing? **RMH RESPONSE: Detail 1, Sheet M-504. Also see Detail 2, M-402.**
- ADD. #3-19. Please provide a detail for the radiant heating pumps. **RMH RESPONSE: Detail 11 added to M-402 in Addendum 2.**
- ADD. #3-20. The radiant heating pumps seem to be associated with a particular room ie. 165, 103, and 113.

RHP-1	RADIANT SLAB, 165	INLINE	2.0	5.0
RHP-2	RADIANT SLAB, 103	INLINE	1.0	2.5
RHP-2	RADIANT SLAB, 113	INLINE	1.5	4.0

These room numbers do not coincide with the cross hatched areas indicating in slab radiant heating as shown on MP-101. The rooms that are cross hatched are 100, 103, & 104.

Are the areas that are cross hatched on the plan correct or are rooms 103, 165, and 113 the correct location for in slab radiant heating? **RMH RESPONSE: The room numbers on the schedule have been updated in Addendum 2.**

- ADD. #3-21. I see a number of VAV units indicated on the plan but there does not seem to be a schedule for them in the mechanical equipment schedules. Please provide a schedule for the VAV boxes. **RMH RESPONSE: Added to M-601, Addendum 2.**
- ADD. #3-22. There is no reference in the specifications as to the form of contract. Can you please provide? **RESPONSE: Please see Addendum 02 for contract references.**
- ADD. #3-23. Sheet S-100: Please see the foundation wall located close to Grid Line D, between Grid Lines 1 and 2. Please provide a top of foundation wall at this location. **STRUCTURAL RESPONSE: Top of grade beam on grid D between grids 1 and 2 is equal to top of adjacent slab on grade; 102'-0"**
- ADD. #3-24. Sheet A-202: Detail 3: Please see the left side of the west elevation. WS_MAS_03 and WS_MAS_04 are both noted for the same wall. Please provide clarification. **RESPONSE: Please see Wall Section A3/A-313 for similar wall type. The difference in the two wall systems is the structure. There is CMU from Level 1 up to 10'-8" and Metal Stud Framing above the CMU at the Gymnasium.**
- ADD. #3-25. Sheet A-202 No clear distinction between WS_MAS_01 and the gym masonry is discernable. Please provide clarification as to where each masonry wall occurs. Some elevations are not labeled. **RESPONSE: See attached A-202 for clarifications:**
1. **Sheet A-201: On Detail 1 added exterior wall system callouts where elevations were missing labels.**
 2. **Sheet A-202: On Details 1, 2 & 3 added exterior wall system callouts where elevations were missing labels.**
- ADD. #3-26. Sheet A600 - Finish Legend states that SS4 is not applicable (Not shown), but is shown to be used on A-406. Please advise. **RESPONSE: SS4 description as follows:**
1. **Finish Code: SS4**
 2. **Item: Solid Surface**
 3. **Manufacturer: Neolith**
 4. **Series/Pattern: Fusion Collection**
 5. **Number: Not Applicable**
 6. **Color: Beton**

- 7. **Size:** **Not Applicable**
- 8. **Finish Remarks:** **Not Applicable**

ADD. #3-27. In the Specifications under Section 09 3013 Tiling, Letter B – Related Requirements, there is a mention of Specification Section 09 3023 “Glass Tiling”, however, this Specification Section is not included in the Specification Manual Volume I. Will this Specification Section be issued in the future? **RESPONSE: Glass Tiling Specification not used. This text can be deleted in 09 3013.**

ADD. #3-28. In the Specifications under Specification Section 09 6723 – Resinous Flooring, 3.2 Letter E Number 1, The Integral Cove Base is listed as being 4” in height, however in the Drawings, Sheet A-600 Finish Legend and Notes, the Integral Cove Base is listed as 6” in height. Please clarify the correct height of the Integral Cove Base. **RESPONSE: Cove Base to be 6” in all locations.**

- **On B4/A-552, Revise Cove Base Height from 4” to 6”.**
- **In Spec Section 09 6723_3.2_E1, Revise as follows: Integral Cove Base: 6 inches high.**

ADD. #3-29. Is a Waterproofing Membrane to be installed in both Level 1 and Level 2 Restrooms where the Poured Epoxy Floor is to be installed? Please advise. **RESPONSE: Yes, Waterproofing Membrane to be installed over entire substrate including integral cove bases.**

ADD. #3-30. Section 103413 - Defibrillator Cabinet is detailed in specifications, but not shown in drawings. Please specific locations or a quantity. **RESPONSE: Quantity = 1. Location = TBD. Please revise specifications as follows:**

1. **Revise 10 3413_2.2_A1 as follows: “Basis of Design: Subject to compliance with the requirements, provide JL 1415F12 Recessed AED Cabinet or similar product.**
2. **Revise 10 3413_2.2_D as follows: “Recessed Cabinet with 3/8” Flat Trim.**

ADD. #3-31. Section 102800- Vender- Recessed Napkin (TA-09): Please verify location or quantity. **RESPONSE: Provide (1) at Womens Locker Room #135 and (1) Women’s Restroom #208. Location TBD.**

ADD. #3-32. Section 102800- Sanitary-Napkin Disposal (TA-10, TA-11): Please verify location or quantity. **RESPONSE: Provide the following:**

1. **Women’s Room #208:**
 - i **Qty. (1): 4721-15 partition mounted, serves 2 compartments.**
 - ii **Qty. (1): 4722-15 surface mounted, serves an end compartment.**
2. **Women’s Locker Room #135:**
 - i **Qty. (1): 4721-15 partition mounted, serves 2 compartments.**
 - ii **Qty. (2): 4722-15 surface mounted, serves an end compartment.**

- ADD. #3-33. Are there drawings available for the existing building? There are references for communication backbone to tie in to existing building TR 1452 and existing drawings are needed to help determine cable lengths. **SMW RESPONSE: Reference existing as-built drawings for TR 1452.** T2.00, T2.01, T2.02 attached for Reference Only.
- ADD. #3-34. Drawing sheet TT-300 shows (1) 24 Strand OM4 fiber and the project manual specify TE ND&I warranty.
1. Page 27 1323 -8 and 9 specify Systimax 12/12 SM/OM4 fiber, please clarify fiber type. **SMW RESPONSE: (1) 12-Strand SingleMode Fiber, (1) 24-Strand OM4 Fiber, and (1) 25-pair CAT Copper Cable needed for backbone.**
 2. Is armored fiber required or will fiber inside innerduct be sufficient? **SMW RESPONSE: Fiber inside innerduct is sufficient**
 3. Will TE fiber be an approved substitution to keep everything TE and ND&I? **SMW RESPONSE: Fiber should be Corning with no exceptions.**
- ADD. #3-35. Regarding the existing CCTV system and to provide correct pricing for camera licenses:
1. Which version of video management software is currently running, Core, Standard, Enterprise? **RESPONSE: Enterprise (per RRCC).**
 2. Is the software Avigilon Control Center 5 (ACC5) or ACC4? **RESPONSE: Unknown at this time.**
- ADD. #3-36. Regarding all AMX AV equipment:
1. Will Crestron be an approved substitution? **RESPONSE: Crestron equivalent is acceptable to SMW though RRCC IT/AV will need to approve this to ensure compatibility and support for Crestron is in place for their tech support staff.**
- ADD. #3-37. Static Dissipative flooring (Finish Code =SD) is shown on the finish schedule but not on the finish plans. Is this product required? Reference A-600 thru A-602. **RESPONSE: SD is not used on this project. This reference was deleted in Addendum 02.**
- ADD. #3-38. What material is the climbing floor to be? Climbing Wall (Section 116733) references a "playground protective surfacing" section 321816 that is not in the specifications. Please clarify. **RESPONSE: Climbing Flooring is specified in 11 6733_2.3 Item D.**
- ADD. #3-39. Is Koester/Ardex floor preparation at all slab/flooring locations or just at the synthetic and wood flooring areas? Per flooring subcontractors recommendation floating floors are at less risk and will maintain at 4.5lb/1000sf. Is this acceptable at those locations? **RESPONSE: 09 0500 Vapor Retarder/Protection required at Wood Athletic Flooring. Synthetic Athletic Flooring, Resilient Athletic Flooring, Resinous Flooring and Tile Carpeting require Moisture Testing prior to proceeding with installation.**

- ADD. #3-40. On TT 300 Cable Riser Diagram. What is the distance from IT 133 to TR1452? **SMW RESPONSE: Please refer to as-built drawings. T2.00, T2.01, T2.02 attached for Reference Only**
- i Is there a floor layout to figure distance for backbone installation? **SMW RESPONSE: Please refer to as-built drawings. T2.00, T2.01, T2.02 attached for Reference Only.**
- ADD. #3-41. Regarding analog equipment mentioned in Construction Documents 27 1119-10, how many VG224 switches will require the RJ21 Amphenol cables? **SMW RESPONSE: No VG224 switches needed in project.**
- i If more than (1), will you require a 24 port angle panel or a 48 port angled panel for these analog connections? **SMW RESPONSE: No VG224 switches needed in project.**
- ADD. #3-42. What type of supports (cable loops, bridle rings, conduit or tied to “Red Iron”) will be required for cabling in the GYM area for WAP locations? **SMW RESPONSE: Conduit to be tied to “Red Iron” for WAP cabling.**
- ADD. #3-43. Regarding the MDF/IDF. Will these rooms require any backboard plywood? **SMW RESPONSE: Designated wall in Addendum 3 drawing TT-200 to be lined with fire rated plywood.**
- i How many walls will require backboard plywood? **SMW RESPONSE: One Designated wall in Addendum 3 drawing TT-200 to be lined with fire rated plywood.**
- ADD. #3-44. Concerning manual and motor-operated window shades: Sheet EP-101 (Keynote 1) indicates electrical connections to motorized window shades at locations that sheet A-151 (Coded Note 2) specifies as dual manual roller shades. Please clarify where motorized and non-motorized window shades will be located. **RESPONSE: Has been coordinated with the architectural to match sheet A-151. Sheet EP-101 has been revised and provided in Addendum 3.**
- ADD. #3-45. Backbone (riser) cabling – drawing TT-300
1. Please confirm the location of Existing TR 1452 referenced on Technology plans so distance can be figured. **SMW RESPONSE: Reference existing as-built drawings for TR 1452. T2.00, T2.01, T2.02 attached for Reference Only.**
Please confirm that IT Room 203 is just being used as a pass thru and that all cables for the rec center terminate in IT 113? **SMW RESPONSE: IT Room 203 confirmed as pass thru.**
- ADD. #3-46. TT-102 - Note 1 states “ All TV Locations in fitness area shall receive a data drop for IPTV” There are only 2 triangles in this area, but there are approx.. 42 pieces of equipment. Does this area only require 2 data drops for IPTV where the triangle and note indicate or do

all the equipment shown need to have a data drop to them? (How many data drops in this area are needed for IPTV?) **SMW RESPONSE: All pieces of equipment to receive data drop.**

ADD. #3-47. On drawing TT-103/note #1 states to route all data in backfill to closest TR room 1664. Please confirm location of TR Room 1664 including estimated distance. **SMW RESPONSE: Please see As-built drawings. T2.00, T2.01, T2.02 attached for Reference Only.**

ADD. #3-48. There are a couple of places that reference Cat 6 and Cat 6A for various items, please confirm the following:

1. Voice, Data and IPTV are to be Cat 6 **SMW RESPONSE: All data to be CAT 6A.**
2. WAP's and CCTV are to be Cat 6A **SMW RESPONSE: All data to be CAT 6A.**
3. WAP's are to receive a dual Cat 6A (2 cables to each WAP) **SMW RESPONSE: Confirmed as shown on Addendum 3 drawing TT-000.**

ADD. #3-49. Drawing TT-200 Note 1 states - MDF shall tie in to existing 600pr copper running from the South

1. What are we connecting ? (Possibly the 50pr copper cable reference on TT-300?) **SMW RESPONSE: Connect to 25 pr copper referenced on Addendum 3 drawing TT-300.**
2. Where is the existing 600pr currently located? (Possibly in room TR 1452?) **SMW RESPONSE: 600pr does not need to be connected to room. Connect 25 pr as shown on Addendum 3 drawing TT-300.**

ADD. #3-50. Please provide clarification on wall type WS-MET2. Some details show the wall panels backed by masonry and other details show it backed by CMU. (For Example West Elevation between Grids 6 & 7) **RESPONSE: Please see attached sheets A-201 and A-202, elevations have been corrected.**

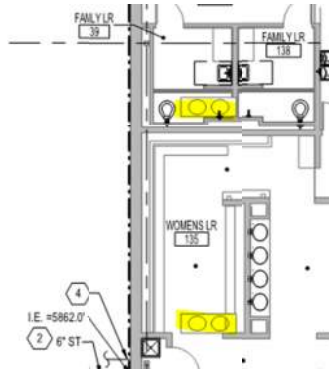
ADD. #3-51. Please confirm note 064023 on 9/A-405 is in fact "not used" or please advise what this material callout should be. **RESPONSE: Revise note to read, "06 4116 INT. ARCHITECTURAL WOODWORK PLASTIC LAMINATE (PL4) OV/ 3/4" MDF ON ALL SURFACES. TYP."**

ADD. #3-52. Is a Signage Schedule available? **RESPONSE: Signage Schedule has been added to Sheet G-101, attached.**

ADD. #3-53. Will any alternative routing of the primary power be considered in lieu of running under the existing building in the crawlspace per E-003? **RMH RESPONSE: Yes, an alternate routing will be considered.**

Provide pricing for both options and advantages/disadvantages and we can review with the owner.

ADD. #3-54. There are several ghost/phantom plumbing fixtures that need to be cleaned up. In Womens LR #135 and Family LR 139. **RESPONSE: Floating double sinks at Women's LR #135 and Family LR # 139 can be deleted.**



ADD. #3-55. The fireplace system from Montigo has a graduated 10 year warranty only. See the attached. Will this be acceptable in lieu of the 30 year specified? **RESPONSE: 10 year warranty is acceptable.**

ADD. #3-56. The drawings show a small exterior vent opening detail. See the attached drawing that approximates the size of the exhaust fan that will be required for this fireplace system. Please confirm that this component is acceptable in this location. **RESPONSE: Please see revised Sheet A-554 included in Addendum 02. Exterior Vent revised from wall discharge to roof discharge.**

ADD. #3-57. The make-up air location and size indicated in the specifications does not identify the source for the air, whether from the exterior of the building or from the interior space. Please provide necessary details. **RESPONSE: Per 10 3116_1.3_C: The Flue and Air Intake Venting are part of a delegated design, and should be included during the Submittal Process.**

ADD. #3-58. There is a large control panel that comes with the fireplace via pre-wired cords. I have attached a drawing representing an approximate size and detail. The location of its' placement will need to be identified. It can be up to 100' away from the fireplace. **RESPONSE: Coordinate final location with Owner/Architect in Field.**

STRUCTURAL:

ADD. #3-59. Revised symbols:

1. S-001: Clarified number of bolts in drag connections.

ADD. #3-60. Revised foundations:

1. S-101: Clarified grade beam step location near grids 2-D.
2. S-101: Extended wider grade beam beyond column at grids 6-E, added note and dimension.

ADD. #3-61. Revised level 2 framing:

1. S-102: Added WF beam and revised framing near grid 3-B and 3C.
2. S-102: Provided top of steel elevation on grid 4.

ADD. #3-62. Revised level 3 framing:

1. S-103: Added detail 20/S-504 on grid 4.
2. S-103: Moved detail 16/S-506.
3. S-103: Clarified alignment note at gym.
4. S-103: Added RTU pad size verification note.
5. S-103: Added opening detail at RTU pad.

ADD. #3-63. Revised high roof framing plan:

1. S-104: Moved detail 16/S-506.
2. S-104: Added diagonal braces west end of grid 4.
3. S-104: Updated extend of roof overhang.

ADD. #3-64. Clarified entry framing:

1. 5/S-105: Added note for deck at top of CMU wall enclosure.

ADD. #3-65. Clarified entry framing:

1. 5/S-253: Replaced base detail with 14/S-507.

ADD. #3-66. Revised foundation details:

1. 18/S-301: Clarified base plate dimensions and added base plate types.
2. 17/S-300: Removed vertical rebar.

ADD. #3-67. Revised steel details:

1. 20/S-504: Added detail.

ADD. #3-68. Revised steel details:

1. 16/S-505: Clarified bolts and geometry.

ADD. #3-69. Revised steel details:

1. 15/S-506: Deleted detail.

2. 16/S-506: Revised/clarified framing.

ADD. #3-70. Revised steel details:

1. 3/S-507: Removed dimension.
2. 8/S-507: Added detail reference for bottom flange connection.
3. 13/S-507: Revised detail.
4. 14/S-507: Revised detail.
5. 17/S-507: Added weld.

ARCHITECTURE:

ADD. #3-71. Add requirements for using Owner's Project Web Site for Project Documentation:

1. Spec Section 01 3100: Revise 01 3100_1.8_A as follows: **“To expedite the electronic review process the contractor shall process all documents through a web-based software service. Use Owner’s Project Web Site for purposes of hosting and managing project communication and documentation until Final Completion. Project Web site shall include the following functions:”** (Items 1-14 remain unchanged)

ADD. #3-72. Revise Exterior Aluminum Finishes from Three-Coat Fluoropolymer to Clear Anodized Finish:

1. Spec Section 07 6200 – Sheet Metal Flashing and Trim.
 - i Delete 07 6200_2.2_B_1a : Exposed Coil-Coated Finish
 - ii Add 07 6200_2.2_B1: **Clear Anodic Finish, Coil Coated: AAMA 611, AA-M12C22A41, Class I, 0.018 mm or thicker.**
2. Spec Section 07 4213.23 – Metal Composite Material Wall Panels
 - i Delete 07 4213.23_2.5_C.1: Two-Coat Fluoropolymer.
 - ii Add 07 4213.23_2.5_C.1: **Exposed Anodized Finish: Clear Anodic Finish: AAMA 611, AA-M12C22A41, Class I, 0.018 mm or thicker.**
3. Spec Section 08 4113 – Aluminum-Framed Entrances and Storefronts:
 - i Revise 08 4113_2.3_A4 as follows: **“Finish: Clear anodic finish”**
 - ii Revise 08 4113_2.4_D as follows: **“Finish: Clear anodic finish”**
 - iii Revise 08 4113_2.11_A as follows: **“Clear Anodic Finish: AAMA 611, AA-M12C22A41, Class I, 0.018 mm or thicker”**
4. Spec Section 08 4413 – Glazed Aluminum Curtain Walls:
 - i Revise 08 4413_2.3_A4 as follows: **“Finish: Clear anodic finish”**
 - ii Revise 08 4413_2.7_A as follows: **“Clear Anodic Finish: AAMA 611, AA-M12C22A41, Class I, 0.018 mm or thicker”**

ADD. #3-73. Add CPI Daylighting to approved manufacturer's for Structured-Polycarbonate-Panel Assemblies:

1. **08 4513_2.2_A1_e: CPI Daylighting: Quadwall System**

ADD. #3-74. LS-101.

1. On Applicable Codes & Standards, revise NFPA 72 and NFPA 13 to comply with 2010 editions.

ADD. #3-75. Clarify Motorized Roller Shades.

1. On 1/A-152, added note for Motorized Roller Shades and clarified locations per attached drawing.

ADD. #3-76. Add Jamb Flashing for all Polycarbonate Jamb Details, typical at all brick and cmu jambs:

1. On B2/A-501, add prefinished flashing and backer rod & sealant, per attached drawings.

ADD. #3-77. Clarified Gymnasium Parapet Walls on South and West Elevation:

1. A-103: Revised Detail Callouts for South and West Gymnasium Parapet per attached drawing.
2. A-530: Revised Parapet Detail A2/A-530 per attached drawing.
3. A-532: Added Parapet Detail C1/A-532 per attached drawing.

MECHANICAL:

ADD. #3-78. Revise specification Section 23 0593 TESTING, ADJUSTING, AND BALANCING FOR HVAC as follows:

1. Revise 23 0593_1.4_A Item 1, as follows: "Test and balance and sound and vibration testing firms for this project **include, but are not limited to the following:**

ELECTRICAL:

ADD. #3-79. New specification section 26 0800 Electrical Testing has been added.

ADD. #3-80. Sheet E002 – short circuit schedule values have been updated and also include the PMH-7 medium voltage switch.

ADD. #3-81. Sheet E004 – the background has been updated on the site lighting plan.

ADD. #3-82. Sheet EP-101 - has been updated to reflect the changes to the motorized shades.

ADD. #3-83. Sheet E603 – panel schedules have been updated.

TECHNOLOGY:

ADD. #3-84. Revise specification Section 27 0526 GROUND AND BONDING FOR COMMUNICATION SYSTEMS as follows.

1. Revise 27 0526_1.8_B Item 2, as follows: **“Telecommunications Contractors must be certified by Systimax Certified Design and Installation (ND&I) Contractor.”**

ADD. #3-85. Revise specification Section 27 4100 AUDIOVISUAL GENERAL REQUIREMENTS as follows.

1. Revise 27 4100_1.13_A Item 2, as follows: **“Audiovisual Contractors for this project include, but are not limited to the following:”**

ADD. #3-86. **Revise to Amp Net Connect Brand and Corning:**

1. **Please Note: All Commscope Systimax and Uniprise Brands in specifications should be changed to the Amp Net Connect Brand.**
2. **Please Note: Fiber, Fiber optic patch panels, and connectors to be Corning manufacturer.**

ADD. #3-87. TT-000 – Updated all cabling to be CAT 6A

ADD. #3-88. TT-151 – Added EZ path Fire Rated Pathway to IDF

ADD. #3-89. TT-152 – Added EZ path Fire Rated Pathway to IDF

ADD. #3-90. TT-200 – Added fire rated plywood to designated wall and removed note referencing 600 pr

ADD. #3-91. TT-300 – Modified Backbone Cabling to IT 133

STRUCTURAL ATTACHMENTS:

SW-001, S-101, S-102, S-103, S-104, S-105, S-253, S-301, S-504, S-505, S-506 and S-507

ARCHITECTURAL ATTACHMENTS:

G-101, A-103, A-152, A-201, A-202, A-501, A-530, A-532, 08 4513 (page 4 only)

ELECTRICAL ATTACHMENTS:

E-002, E-004, E-603, EP-101, 26 0800

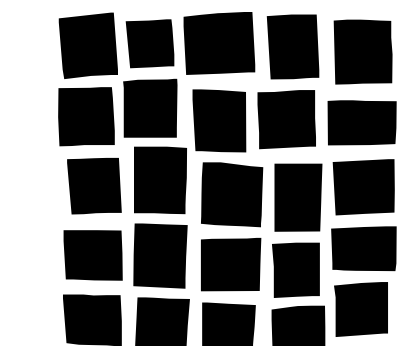
TECHNOLOGY ATTACHMENTS:

TT-000, TT-151, TT-152, TT-200, TT-300

EXISTING TECHNOLOGY DRAWINGS:

T2.00, T2.01, T2.02 attached for Reference Only.

END OF ADDENDUM NO. 03



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Issue/Revisions Date No.

Issue/Revisions	Date	No.
Addendum #2	12-4-2015	1
Addendum #3	12-9-2015	2

Project Information

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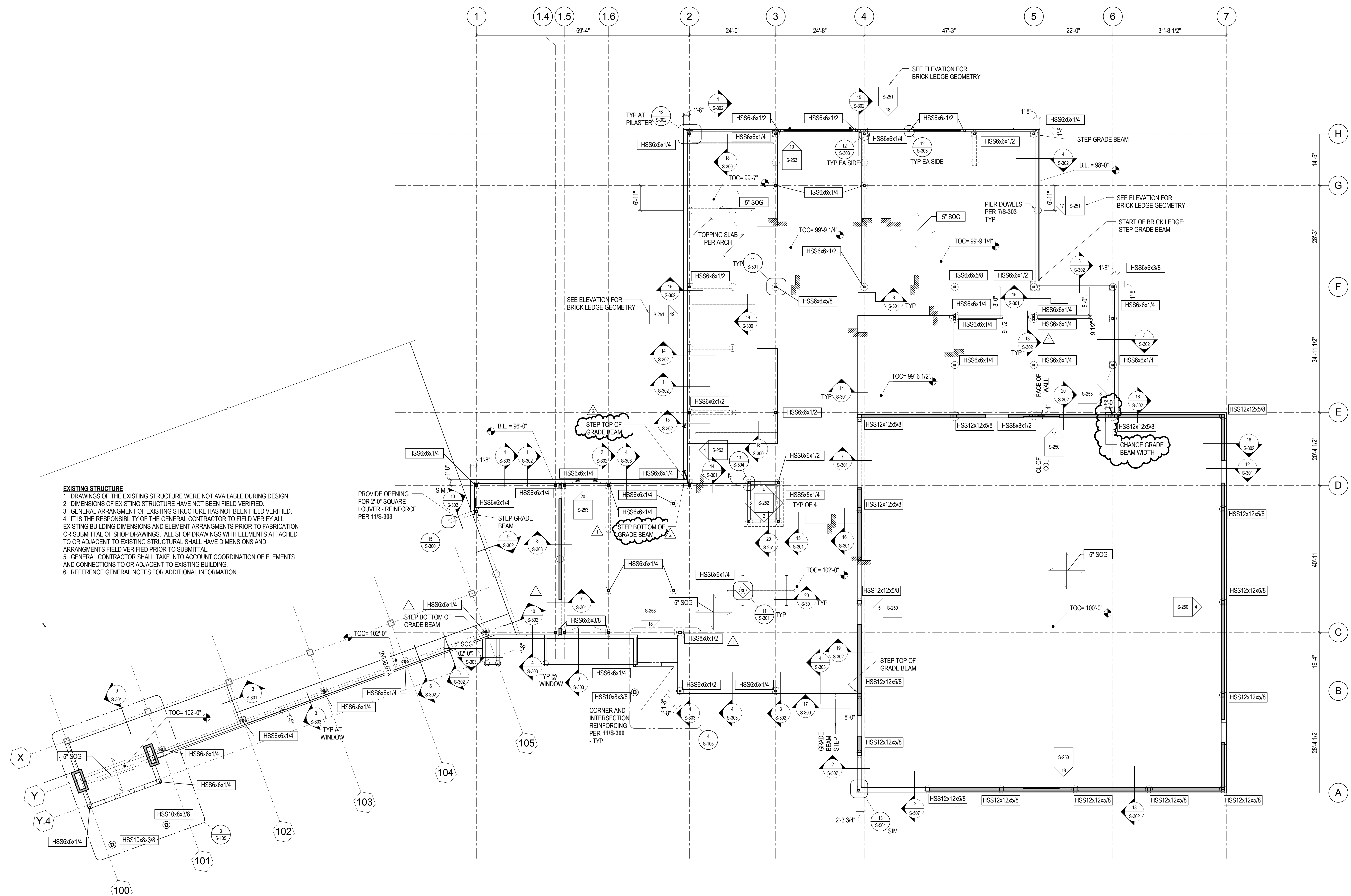
Sheet Information

Sheet Title:
FOUNDATION PLAN

100%
CONSTRUCTION DOCUMENTS
Nov 9, 2015
Sheet Number:

S-101

MM Project: 15.0256.S.01



EXISTING STRUCTURE
1. DRAWINGS OF THE EXISTING STRUCTURE WERE NOT AVAILABLE DURING DESIGN.
2. DIMENSIONS OF EXISTING STRUCTURE HAVE NOT BEEN FIELD VERIFIED.
3. GENERAL ARRANGEMENT OF EXISTING STRUCTURE HAS NOT BEEN FIELD VERIFIED.
4. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO FIELD VERIFY ALL EXISTING BUILDING DIMENSIONS AND ELEMENT ARRANGMENTS PRIOR TO FABRICATION OR SUBMITTAL OF SHOP DRAWINGS. ALL SHOP DRAWINGS WITH ELEMENTS ATTACHED TO OR ADJACENT TO EXISTING STRUCTURAL SHALL HAVE DIMENSIONS AND ARRANGMENTS FIELD VERIFIED PRIOR TO SUBMITTAL.
5. GENERAL CONTRACTOR SHALL TAKE INTO ACCOUNT COORDINATION OF ELEMENTS AND CONNECTIONS TO OR ADJACENT TO EXISTING BUILDING.
6. REFERENCE GENERAL NOTES FOR ADDITIONAL INFORMATION.

LEVEL 1

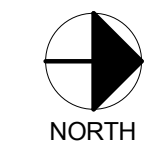
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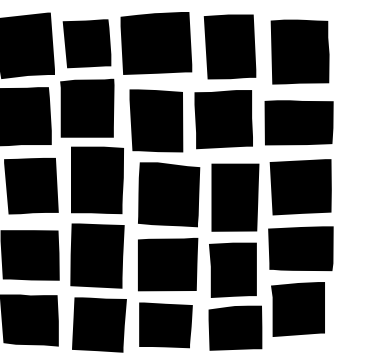
FOUNDATION NOTES

- SEE S0 SERIES SHEETS FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
- SEE S3 SERIES SHEETS FOR TYPICAL CONCRETE DETAILS.
- GRADE BEAMS
 - SEE DETAILS FOR TYPICAL GRADE BEAM REINFORCING.
 - SEE 16/S-300 FOR MAXIMUM GRADE BEAM POUR LENGTHS AND CONSTRUCTION JOINT LOCATIONS.
- SLABS-ON-GRADE
 - SLABS-ON-GRADE SHALL BE 5 INCH THICK NORMAL WEIGHT CONCRETE ON 6 INCH DRAINAGE COURSE ON PROPERLY COMPACTED STRUCTURAL FILL. RE: SPECIFICATIONS FOR REQUIREMENTS.
 - REINFORCE SLABS-ON-GRADE WITH #4 @18 O.C EACH WAY, CENTERED IN SLAB.
 - ELEVATION TOP OF SLABS-ON-GRADE SHALL BE NOTED ON PLAN THUS: TOC = XX'-XX"
 - RE: ARCH DRAWINGS FOR SLAB SLOPES AND DEPRESSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
 - SEE ARCHITECTURAL DRAWINGS FOR VAPOR RETARDER LOCATIONS. CONTRACTOR SHALL INSTALL VAPOR RETARDER PER RECOMMENDATIONS OF PCA AND ACI 302.1R-04.
 - VERIFY ALL FLOOR SLAB RECESS DEPTHS WITH FLOOR SUPPLIER/MANUFACTURER PRIOR TO CONSTRUCTION.
 - REINFORCE SLAB ON GRADE OPENINGS PER 10/S-301.

- COLUMNS/PILASTERS
 - ALL COLUMNS AND PILASTERS ARE CENTERED ON THE INTERSECTION OF GRID LINES UNLESS DIMENSIONED OTHERWISE.
 - REFERENCE 18/S-301 FOR TYPICAL BASE PLATES. REFERENCE DETAILS FOR ADDITIONAL BASE PLATE INFORMATION.
- MASONRY
 - REINFORCE 12 INCH C.M.U. WALLS WITH #5 AT 16 INCHES O.C. CENTER IN WALL UNLESS NOTED OTHERWISE. PROVIDE VERTICAL REINFORCING FOR THE FULL WALL HEIGHT AT EACH SIDE OF ALL WALL OPENINGS AND EACH SIDE OF CONTROL JOINTS. PROVIDE BOND BEAMS WITH (2) #6 AT 8'-0" OC VERTICALLY.
 - SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS OF ALL MASONRY WALLS.

MM JOB #: 15.0256.S.01
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CHECKED BY: CS
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DESIGNERS: LP
PROJECT MANAGER: LP





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Addendum #3	12-9-2015	2

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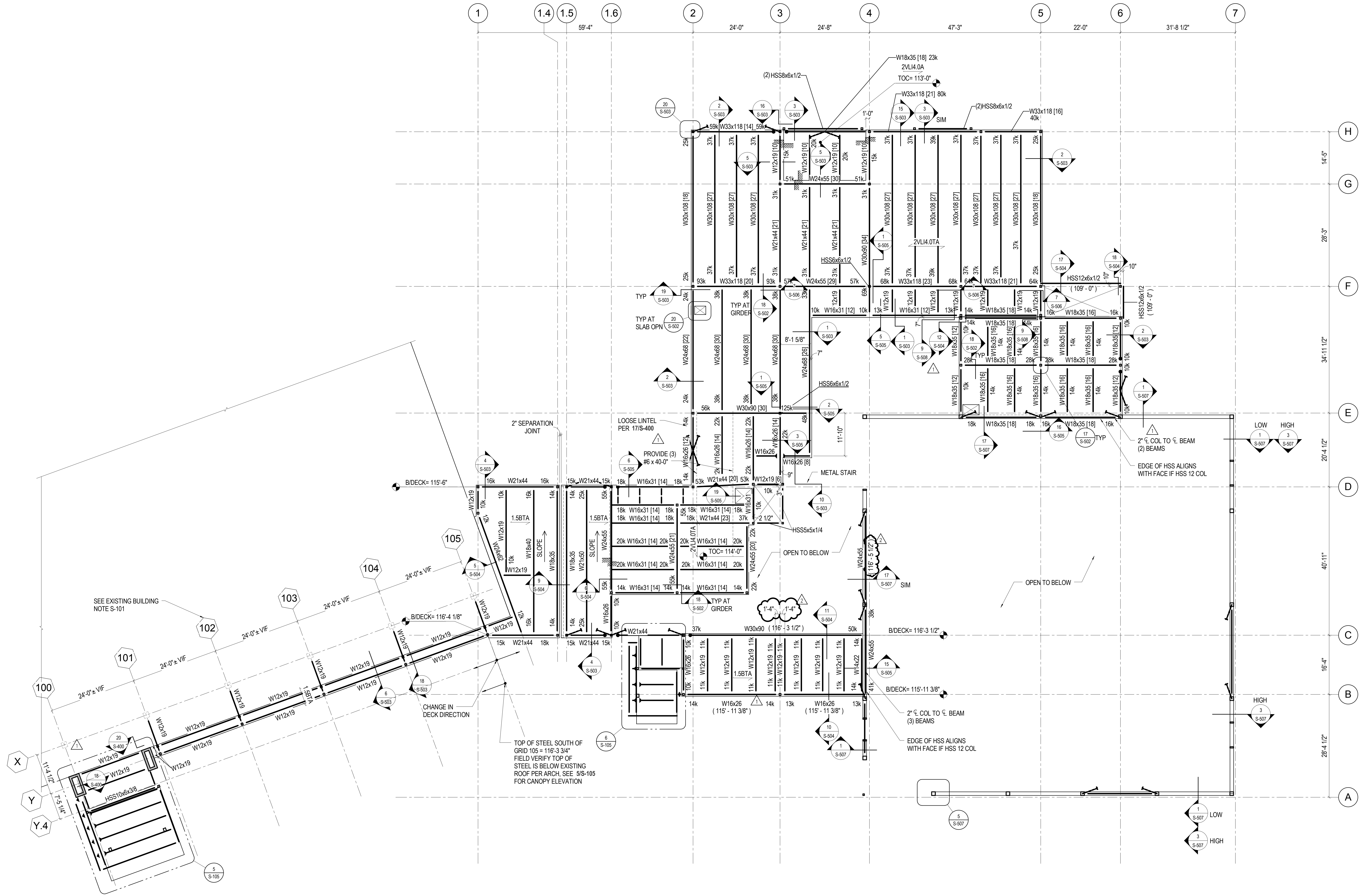
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Sheet Title:
LEVEL 2 FRAMING PLAN

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CONSTRUCTION DOCUMENTS
Nov 9, 2015
Sheet Number:

S-102

MM Project: 15.0256.S.01



LEVEL 2

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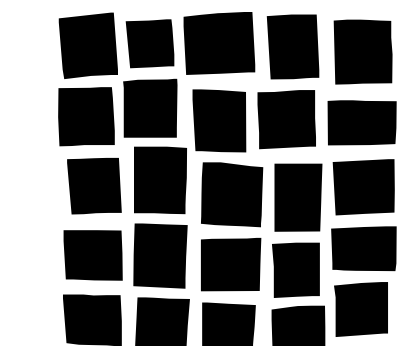
STEEL FRAMING NOTES:

- SEE S0 SERIES SHEETS FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
- SEE S1 SERIES SHEETS FOR STEEL DETAILS.
- SEE S500 TO S501 FOR TYPICAL STEEL CONNECTION DETAILS AND SCHEDULE.
- SEE S502 FOR TYPICAL METAL DECK DETAILS AND SCHEDULE.
- SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SLAB SLOPES, DEPRESSIONS, FILL, PADS AND CURBS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- SPACE BEAMS EQUALLY BETWEEN GRID LINES UNLESS DIMENSIONED OTHERWISE.
- SEE ARCHITECTURAL DRAWINGS FOR EDGE OF SLAB DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS - TYPICAL.
- TOP OF BEAM ELEVATION = BOTTOM OF METAL DECK UNLESS NOTED OTHERWISE ON PLAN.
- REFERENCE 12/S-502 FOR COMPOSITE BEAM STUD LAYOUT REQUIREMENTS.
- REFERENCE 10/S-502 FOR METAL DECK SLAB SCHEDULE.
- REFERENCE 17/S-503 FOR RESTRICTIONS AND REINFORCING FOR CONDUIT IN SLAB ON METAL DECK.
- SUBMIT PROPOSED LAYOUT FOR REVIEW PRIOR TO CONSTRUCTION.
- END REACTION OF W12 AND W14 BEAMS WITHOUT A REACTION NOTED IS 10 KIPS.

DESIGNERS: LP, 09/20/15 09:28:14 AM
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MM JOB #: 15.0256.S.01
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Addendum #3	12-9-2015	2

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Sheet Information

Sheet Title:
ROOF FRAMING PLAN

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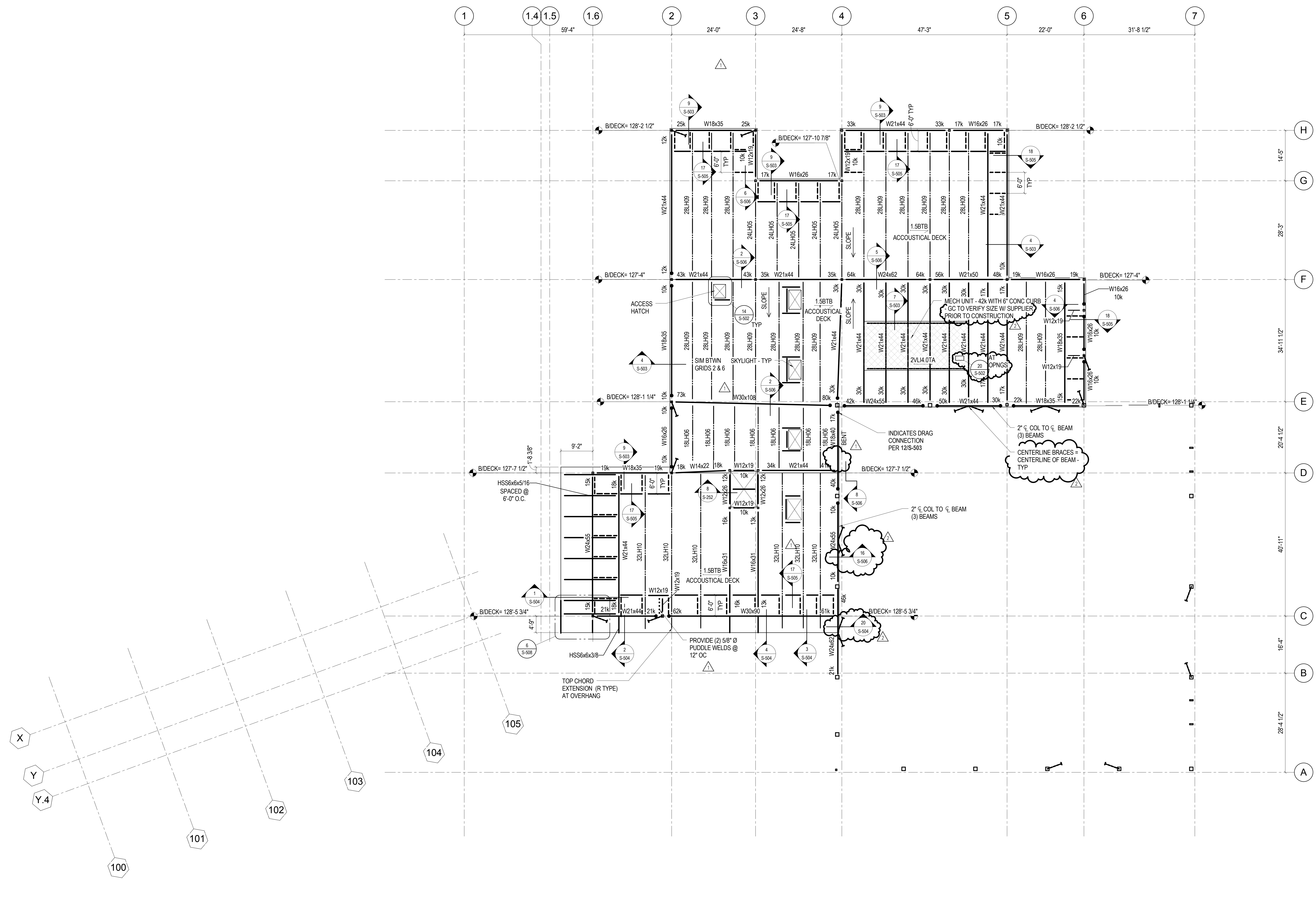
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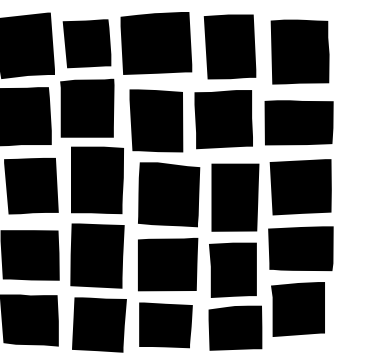
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DRAWN BY: T.L.
ECR: CS
PROJECT MANAGER: LP

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59'-4" 24'-0" 24'-8" 47'-3" 22'-0" 31'-8 1/2"





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Issue/Revisions Date No.

Issue/Revisions	Date	No.
Addendum #2	12-4-2015	1
Addendum #3	12-9-2015	2

Project Information

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Sheet Information

Sheet Title:
**HIGH ROOF
FRAMING PLAN**

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CONSTRUCTION
DOCUMENTS
Nov 9, 2015
Sheet Number:

S-104

MM Project: 15.0256.S.01

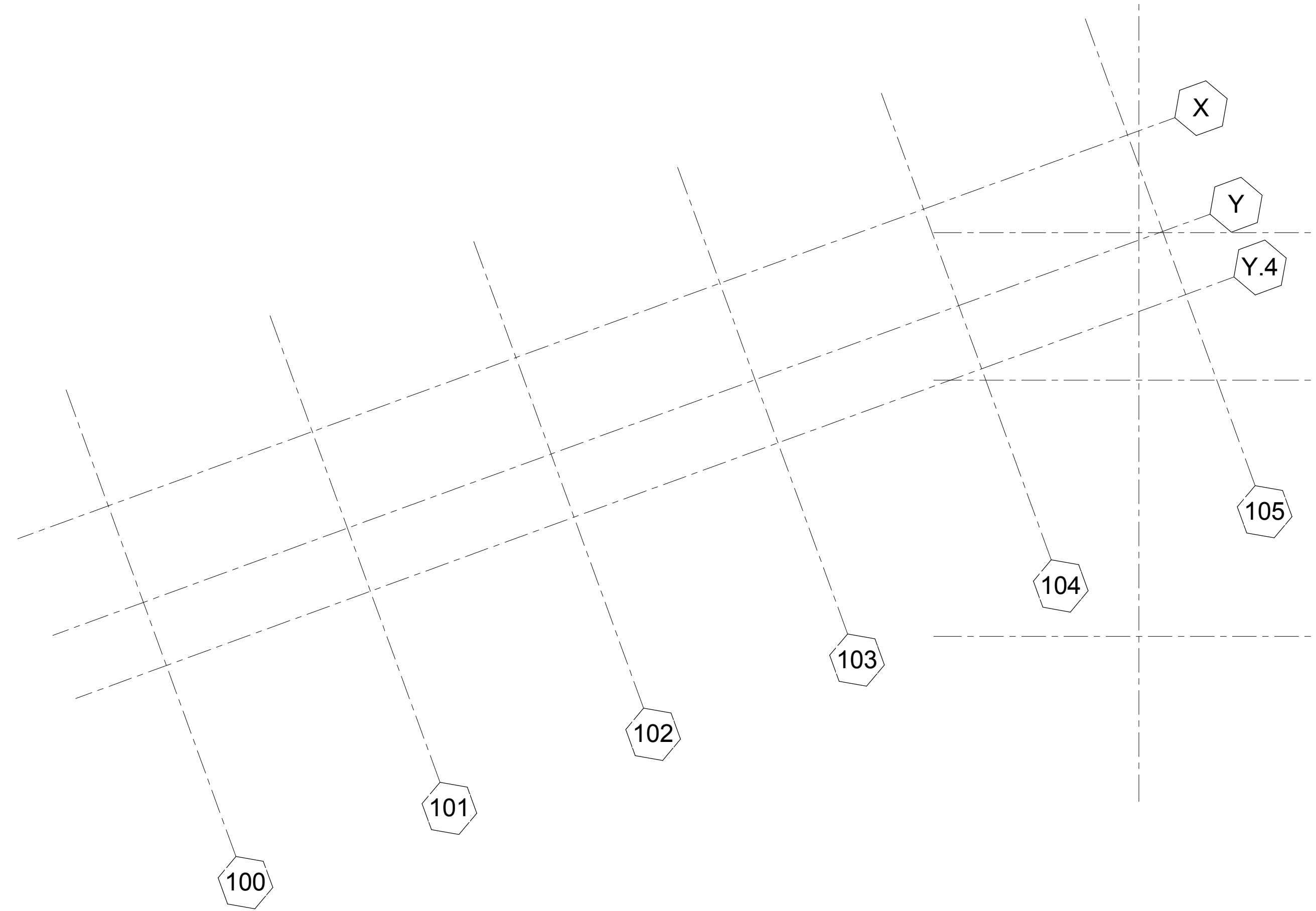
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H
G
F
E
D
C
B
A
14'-5"
28'-3"
34'-11 1/2"
20'-4 1/2"
40'-11"
16'-4"
28'-4 1/2"

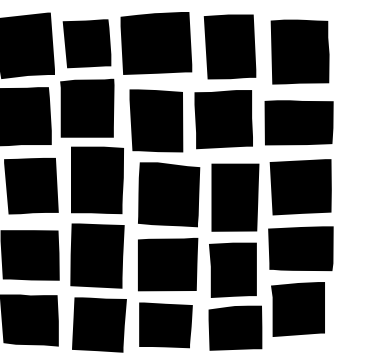


HIGH ROOF

3/32" = 1'-0"



NORTH



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Addendum #3	12-9-2015	2

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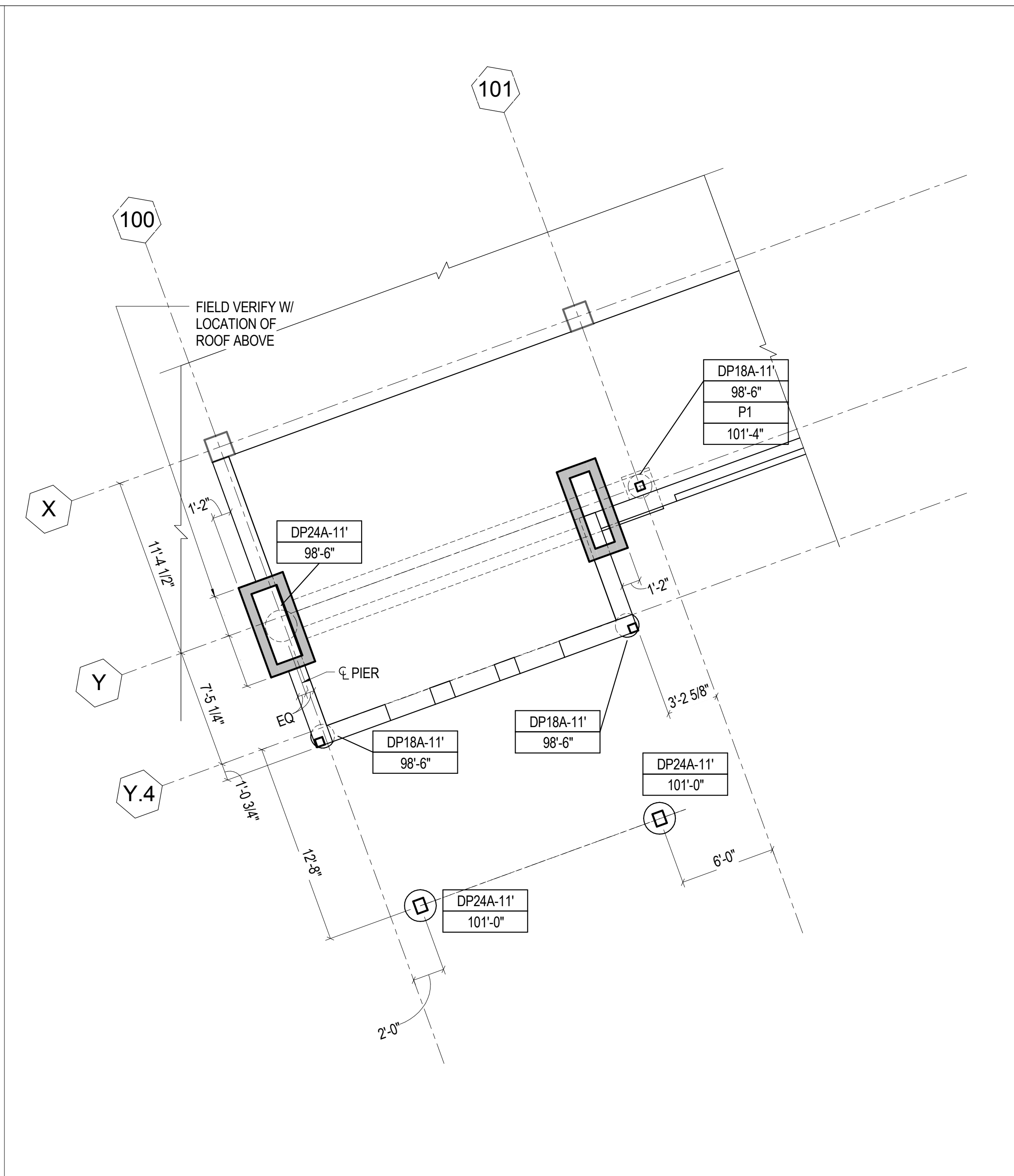
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SOUTH ENTRY PLAN

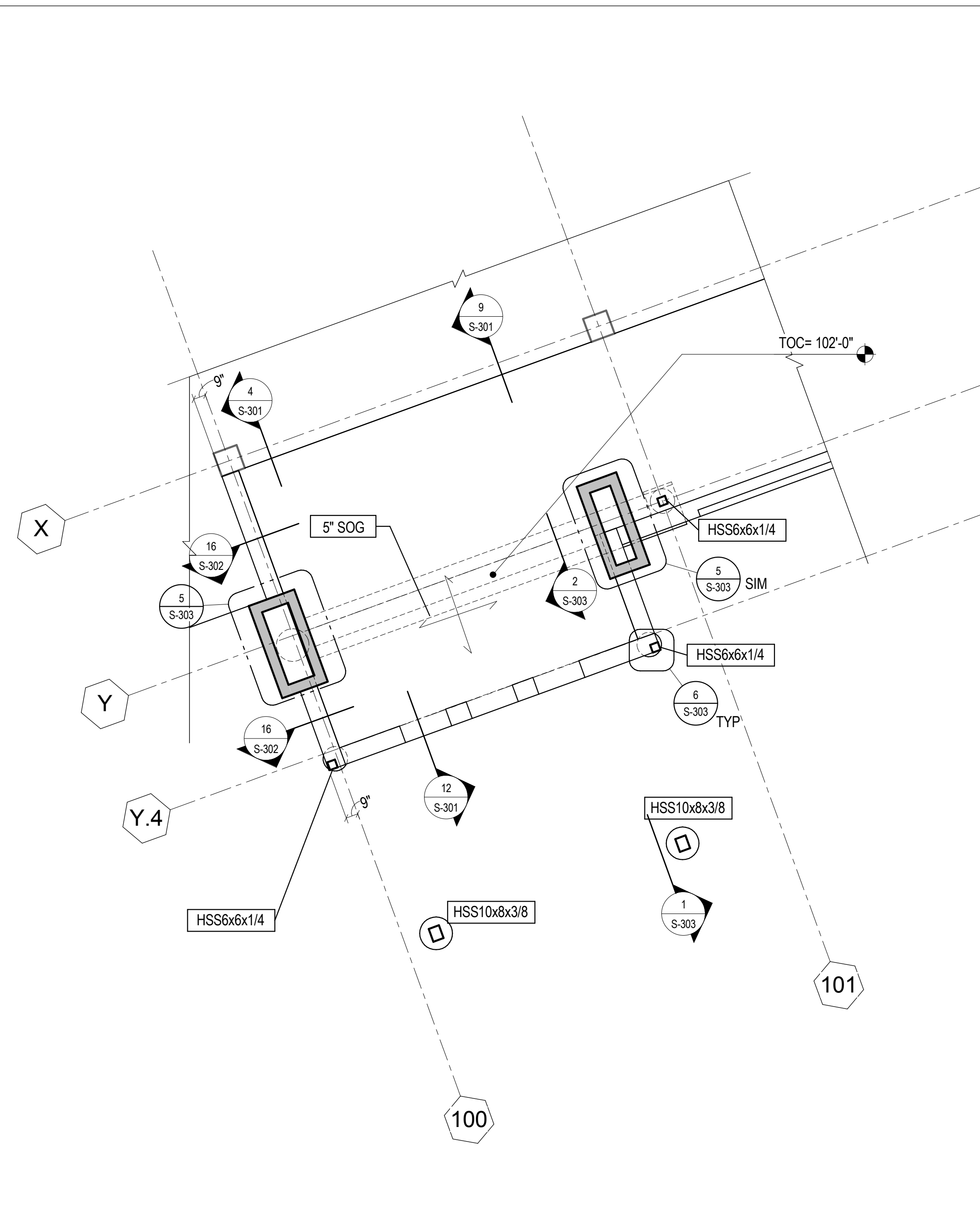
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DOCUMENTS
Nov 9, 2015
Sheet Number:

S-105

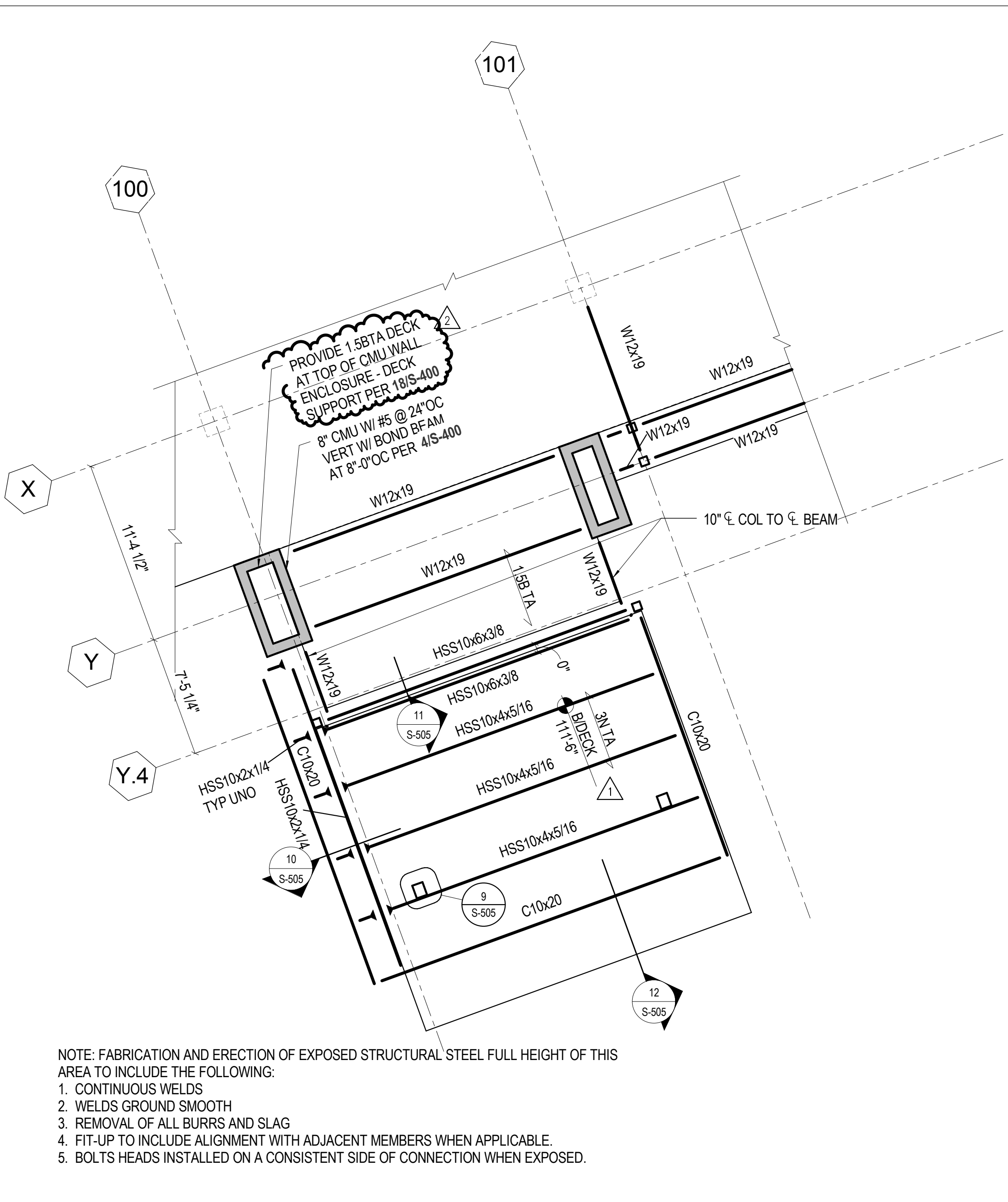
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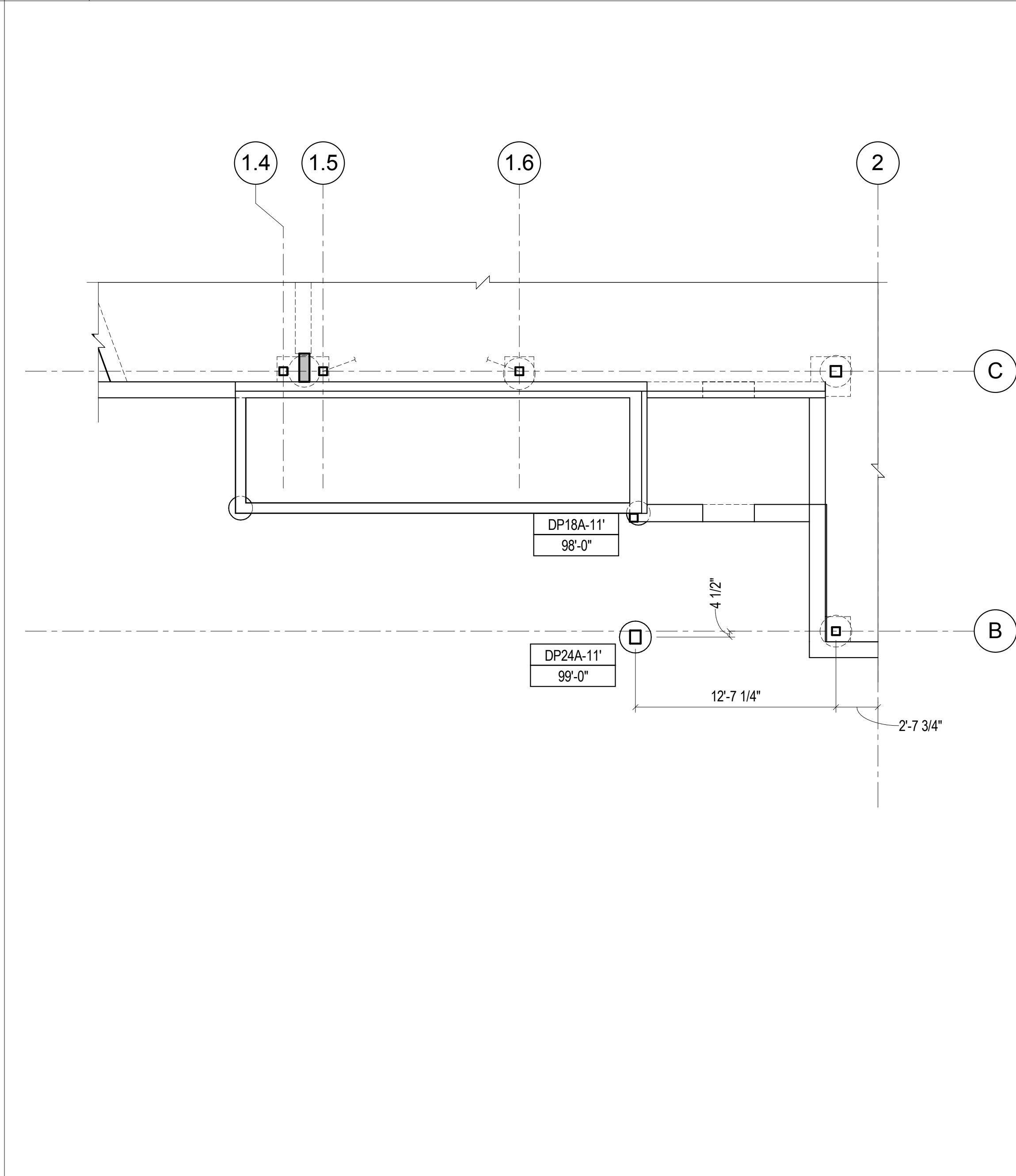
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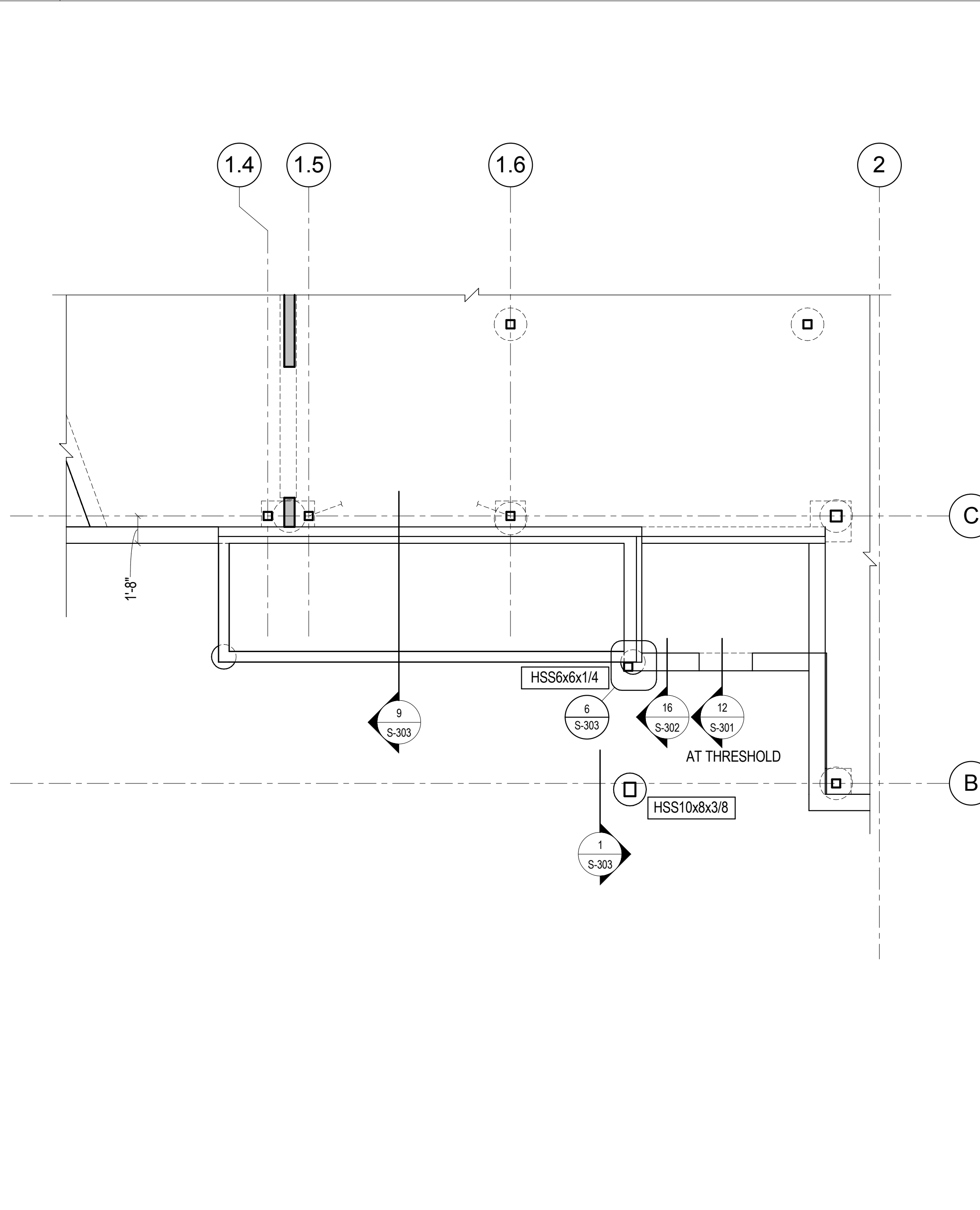
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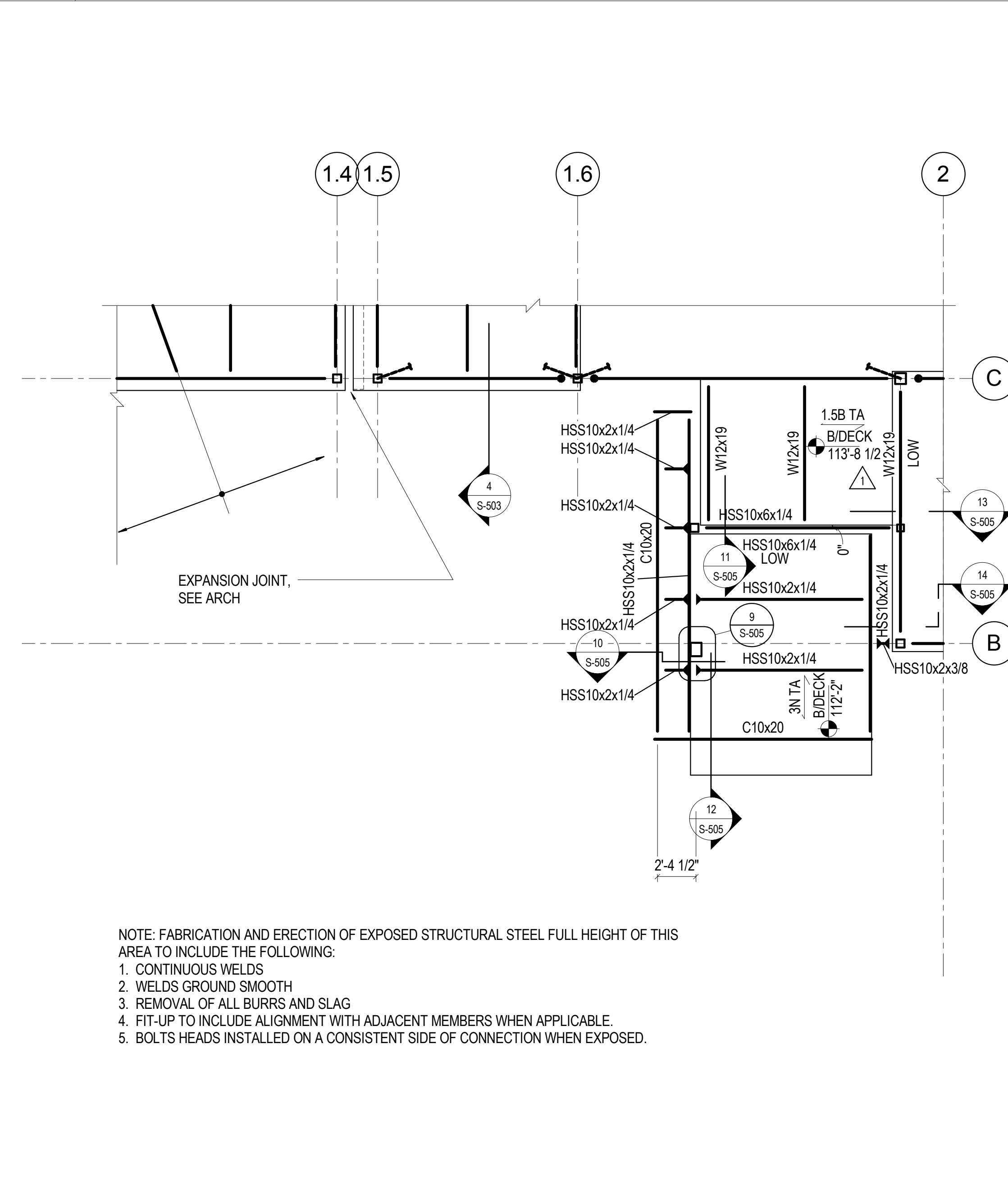
5 3/16" = 1'-0" LEVEL 2 SOUTH ENTRY



2 3/16" = 1'-0" DRILLED PIER PLAN EAST ENTRY



4 3/16" = 1'-0" LEVEL 1 EAST ENTRY



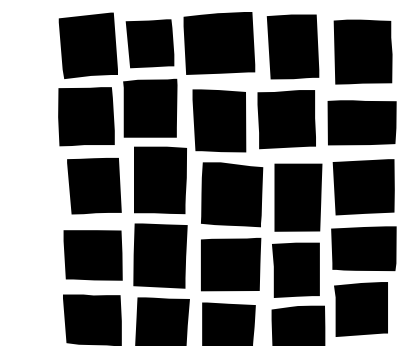
6 3/16" = 1'-0" LEVEL 2 EAST ENTRY

NOTE: FABRICATION AND ERECTION OF EXPOSED STRUCTURAL STEEL FULL HEIGHT OF THIS AREA TO INCLUDE THE FOLLOWING:
1. CONTINUOUS WELDS
2. WELDS GROUND SMOOTH
3. REMOVAL OF ALL BURRS AND SLAG
4. FIT-UP TO INCLUDE ALIGNMENT WITH ADJACENT MEMBERS WHEN APPLICABLE.
5. BOLTS HEADS INSTALLED ON A CONSISTENT SIDE OF CONNECTION WHEN EXPOSED.

NOTE: FABRICATION AND ERECTION OF EXPOSED STRUCTURAL STEEL FULL HEIGHT OF THIS AREA TO INCLUDE THE FOLLOWING:
1. CONTINUOUS WELDS
2. WELDS GROUND SMOOTH
3. REMOVAL OF ALL BURRS AND SLAG
4. FIT-UP TO INCLUDE ALIGNMENT WITH ADJACENT MEMBERS WHEN APPLICABLE.
5. BOLTS HEADS INSTALLED ON A CONSISTENT SIDE OF CONNECTION WHEN EXPOSED.

DESIGNERS: LP, CS
DRAWN: CS
CHECKED: CS
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DRAWN BY: CS
CHECKED BY: CS
PROJECT MANAGER: LP



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Addendum #3 12-9-2015 2

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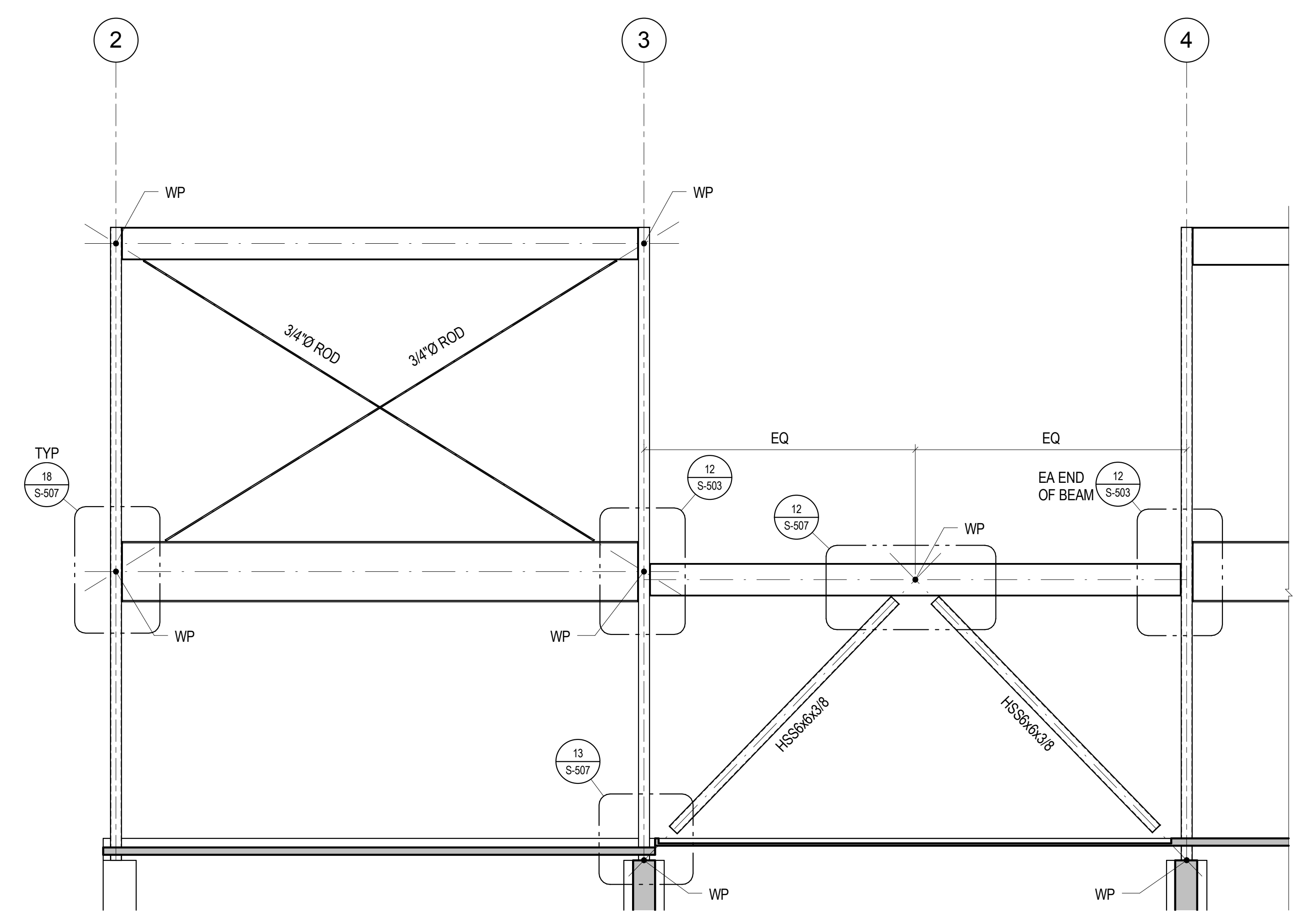
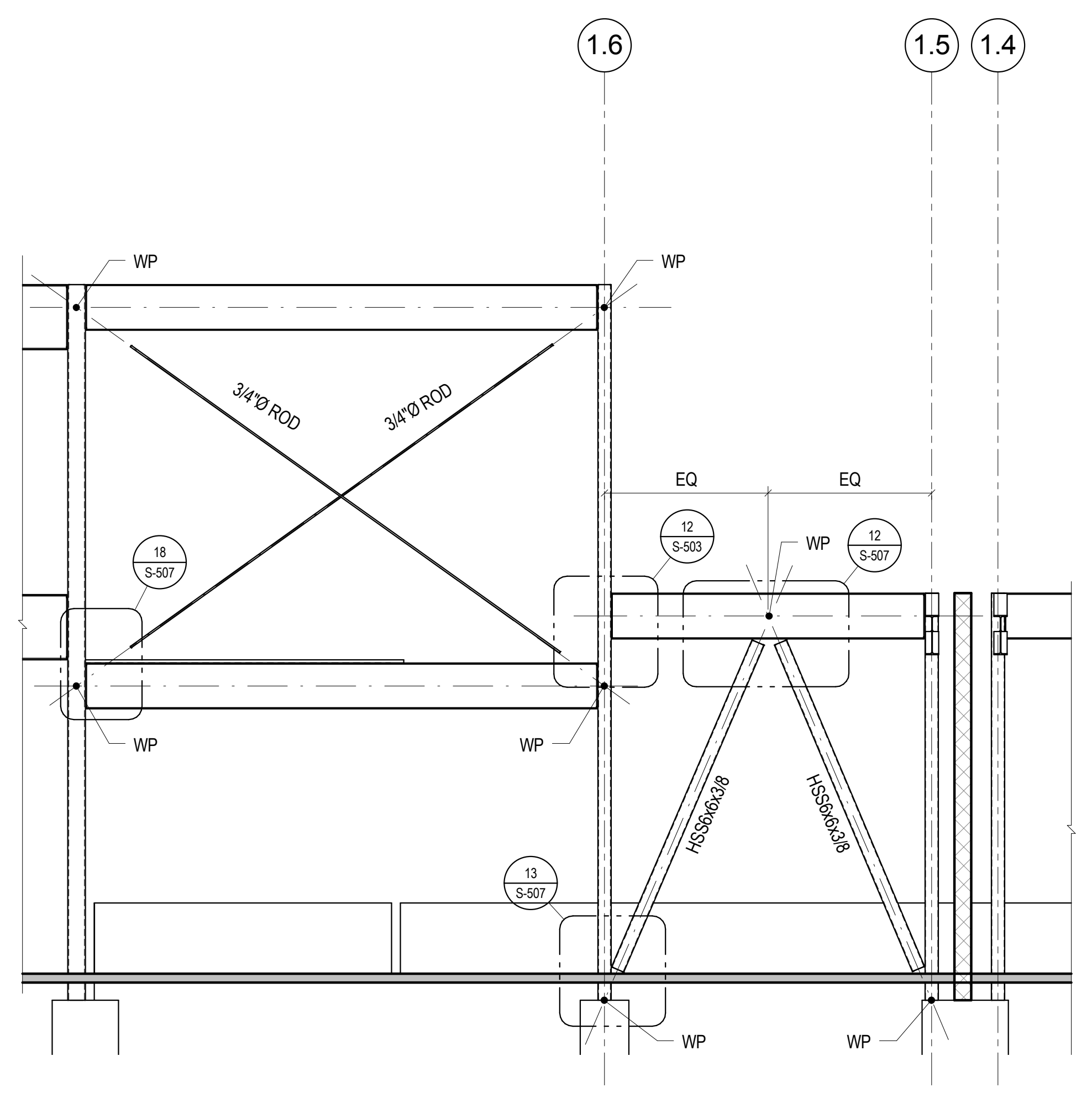
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**BRACE
ELEVATIONS**

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DOCUMENTS
Nov 9, 2015
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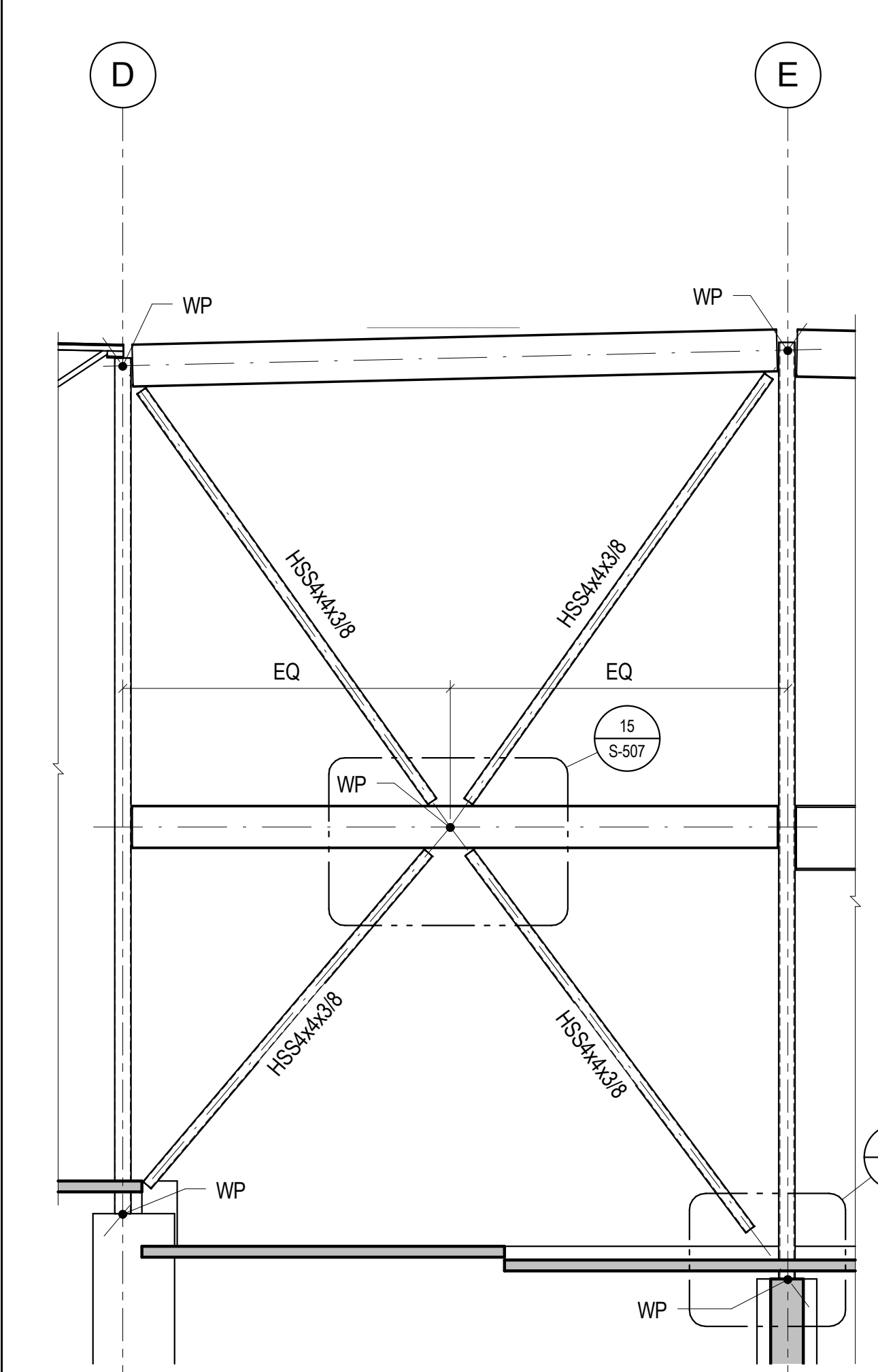
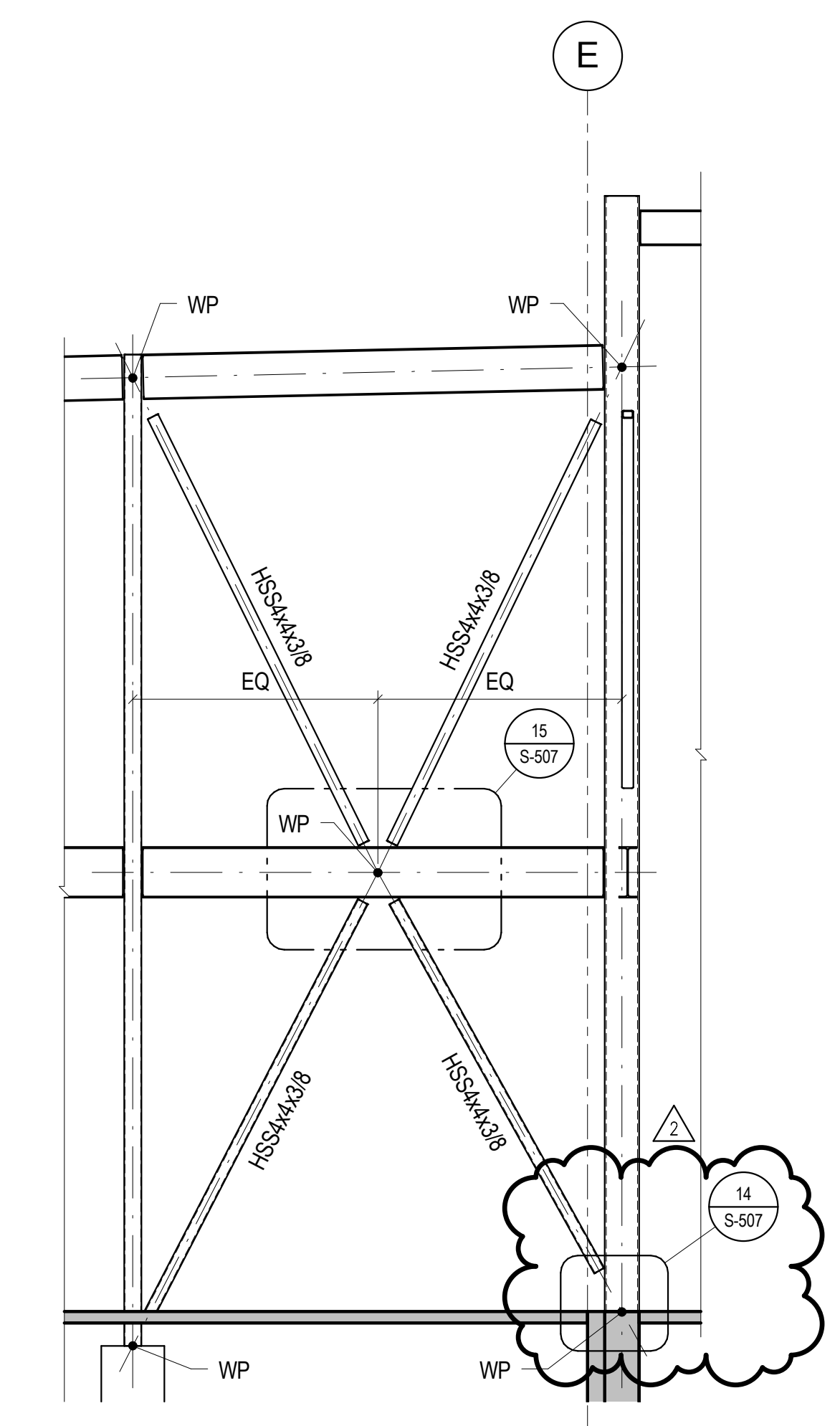
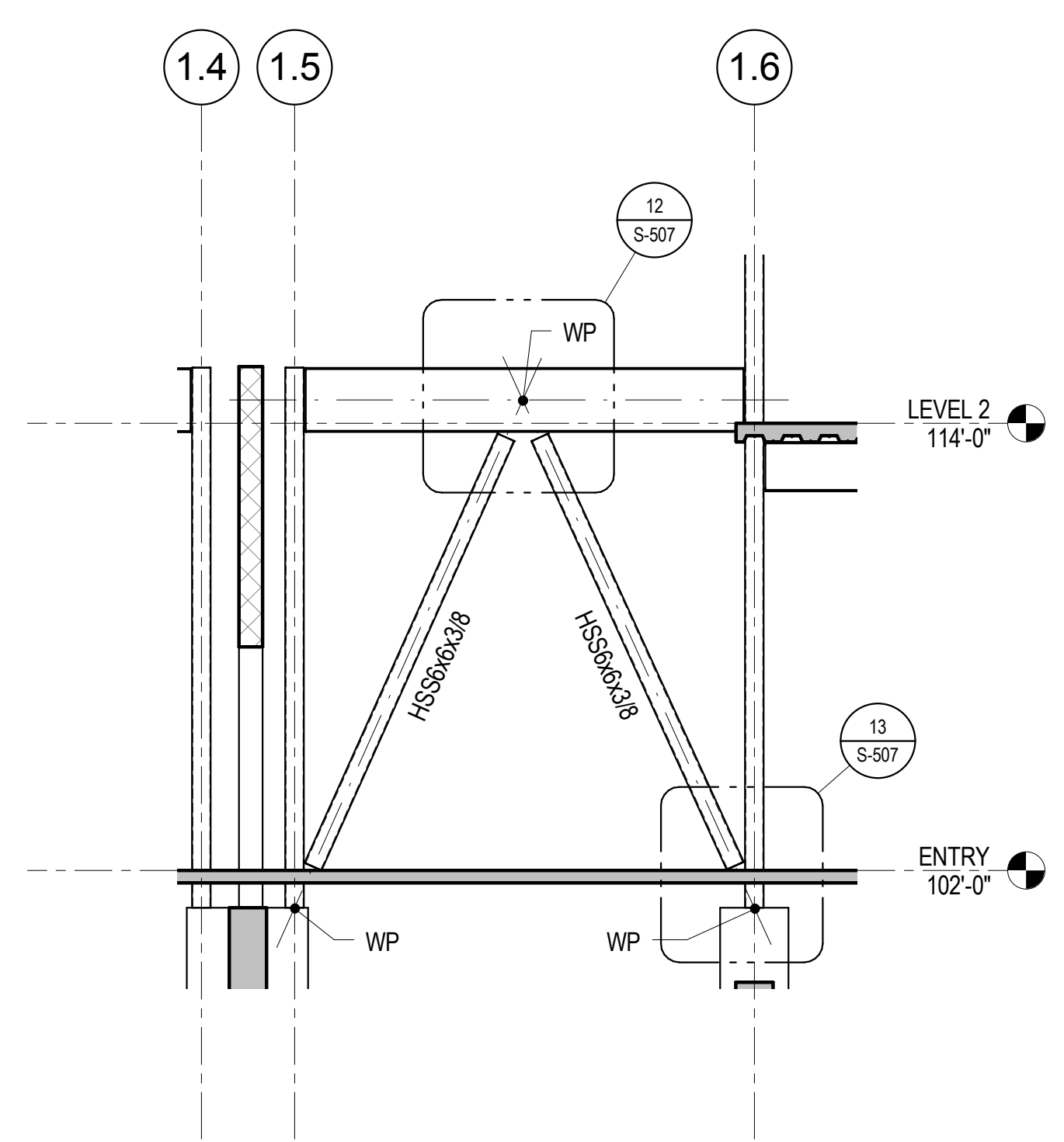
S-253

MM Project: 15.0256.S.01



18 1/4" = 1'-0" BRACE ON GRID C

10 1/4" = 1'-0" BRACE ON GRID H



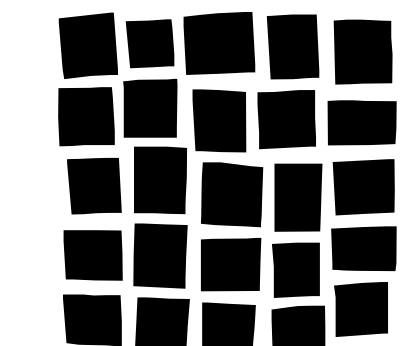
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8 1/4" = 1'-0" BRACE ON GRID 6

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CHECKED BY: CS
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12/09/2015 9:28:18 AM

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Project Information

RRCC REC CENTER
RED ROCKS COMMUNITY COLLEGE
13300 W. 6th Avenue
Lakewood, Colorado 80228

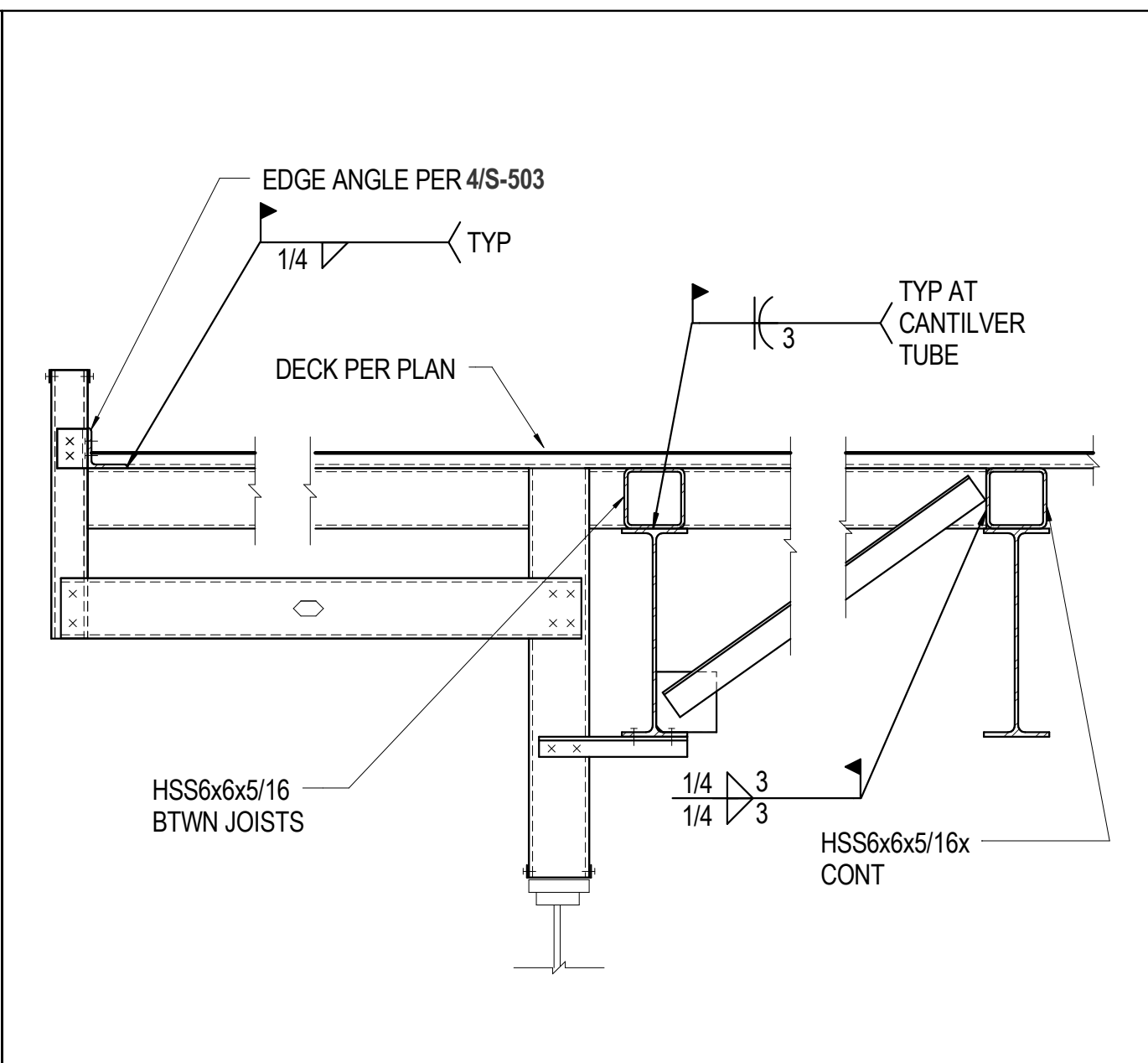
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Sheet Title:
STEEL DETAILS

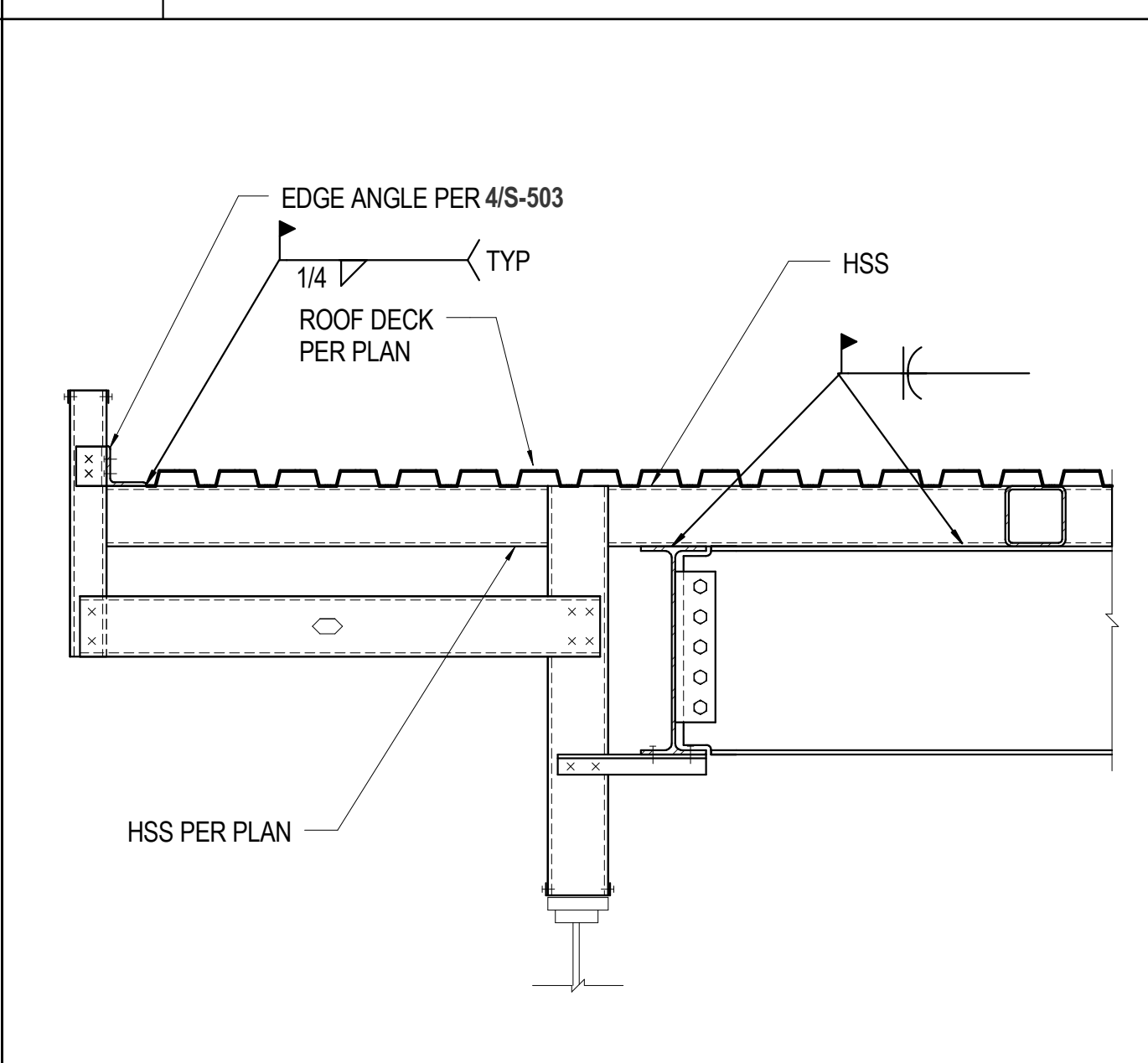
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CONSTRUCTION
DOCUMENTS
Nov 9, 2015
Sheet Number:

S-504

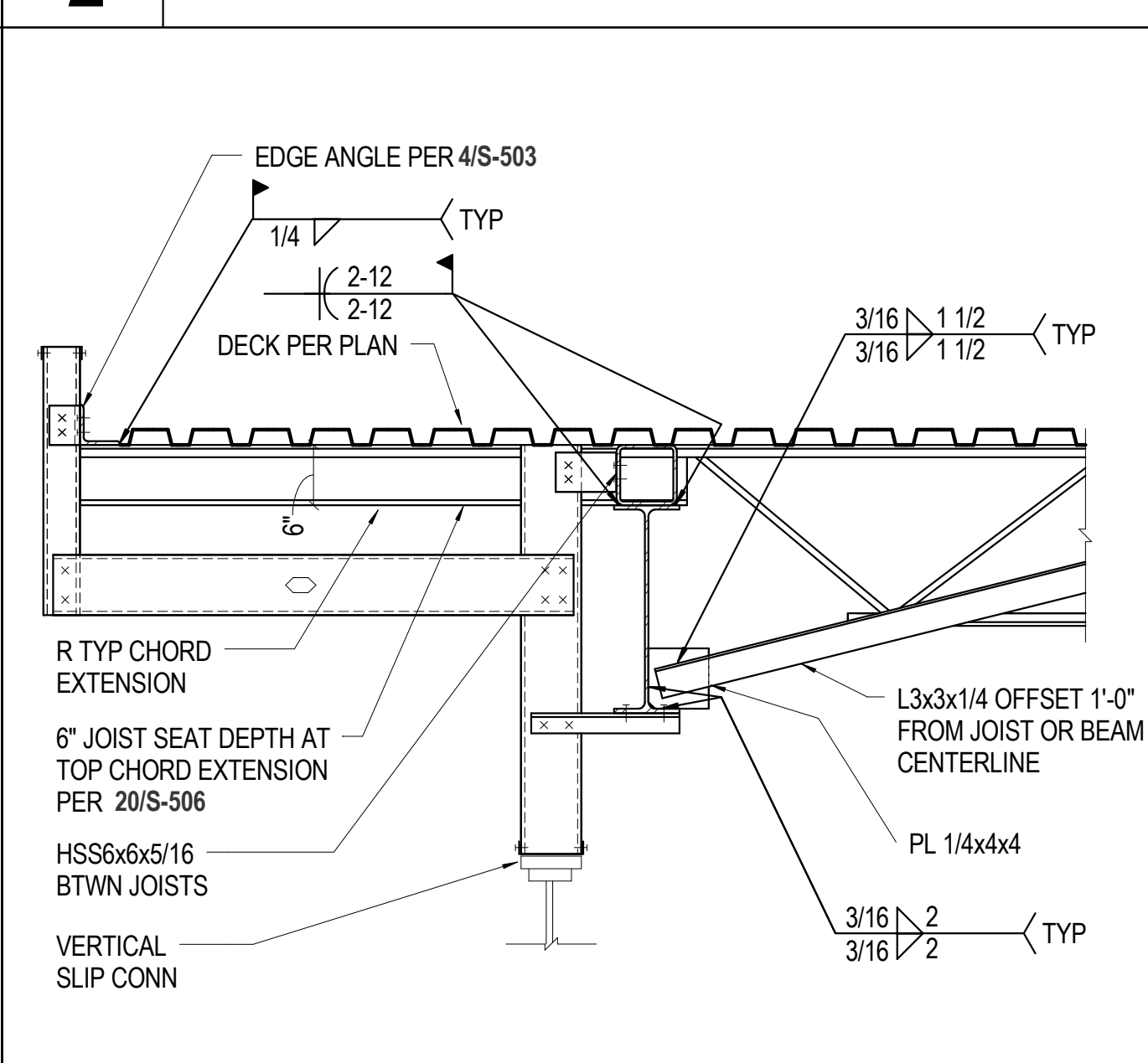
MM Project: 15.0256.S.01



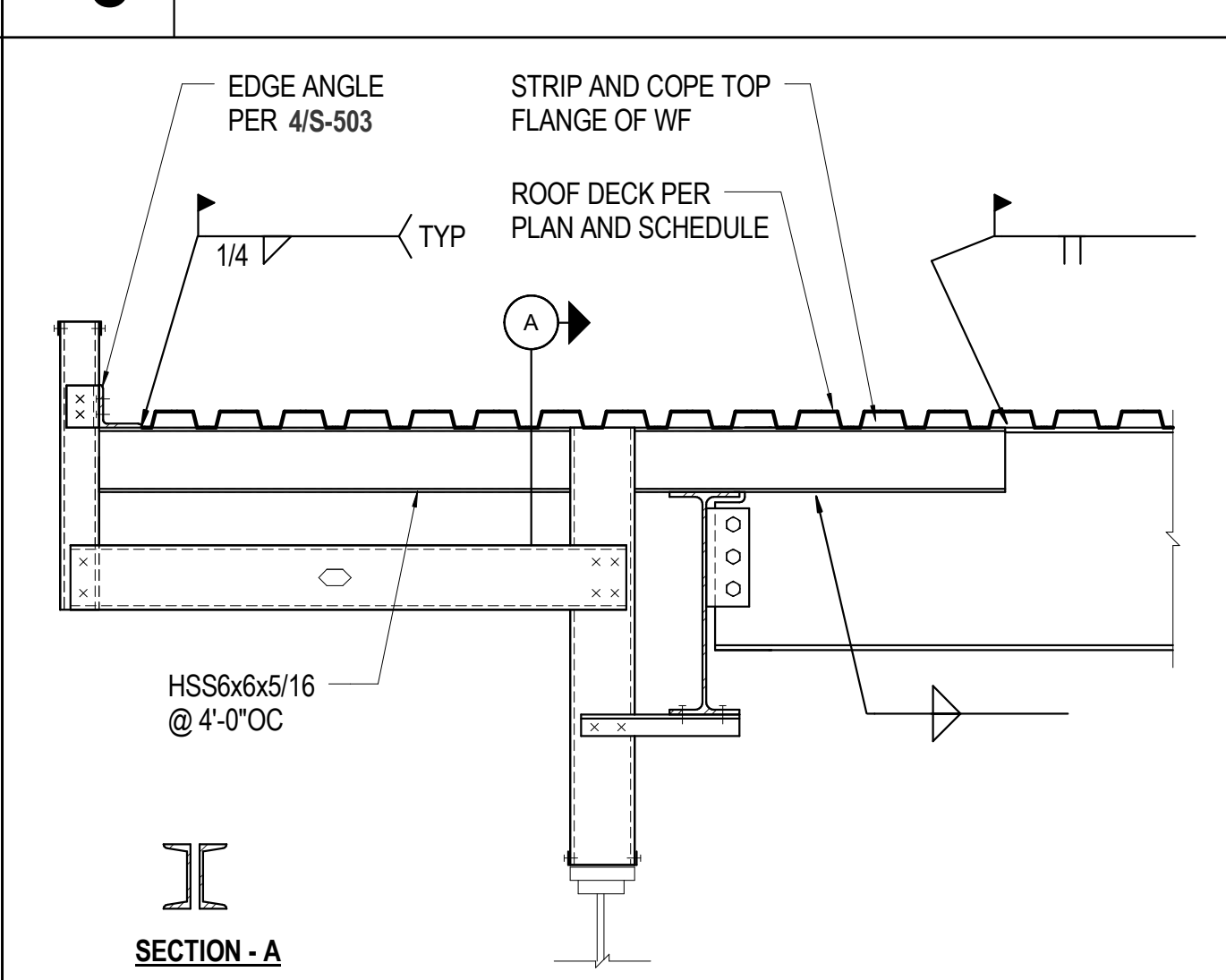
1 3/4" = 1'-0" ROOF OVERHANG - 1



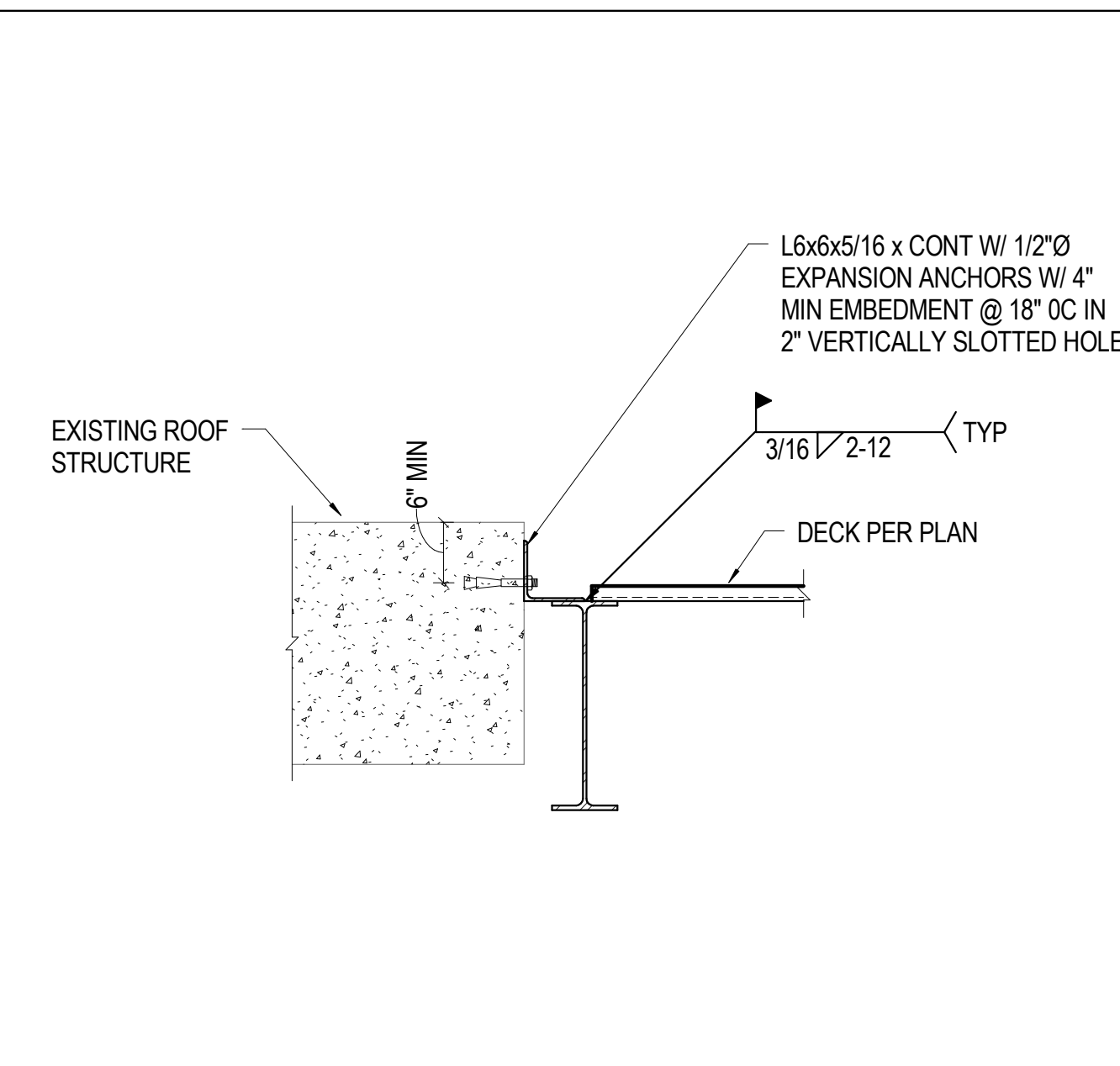
2 3/4" = 1'-0" ROOF OVERHANG - 2



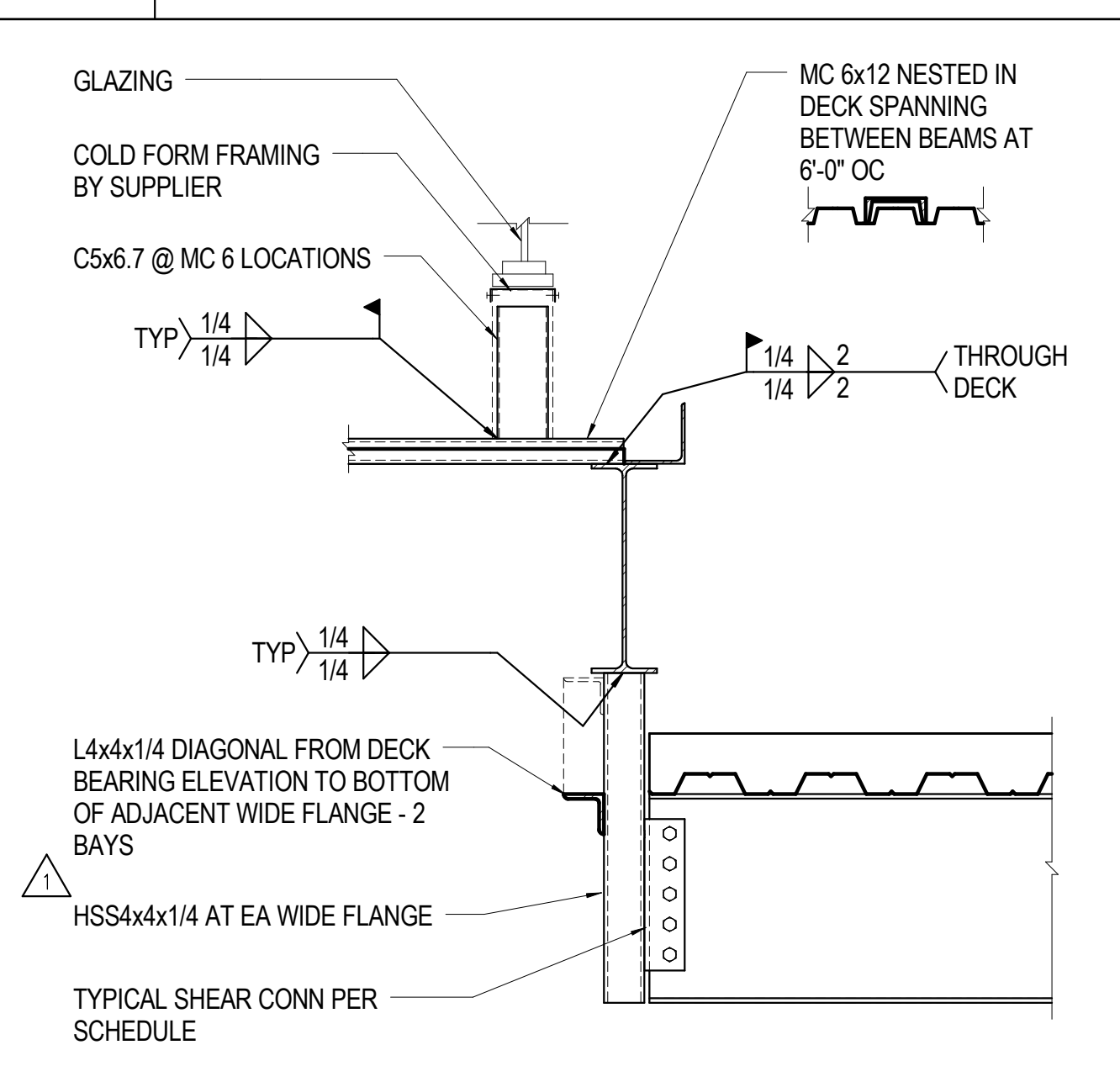
3 3/4" = 1'-0" ROOF OVERHANG - 3



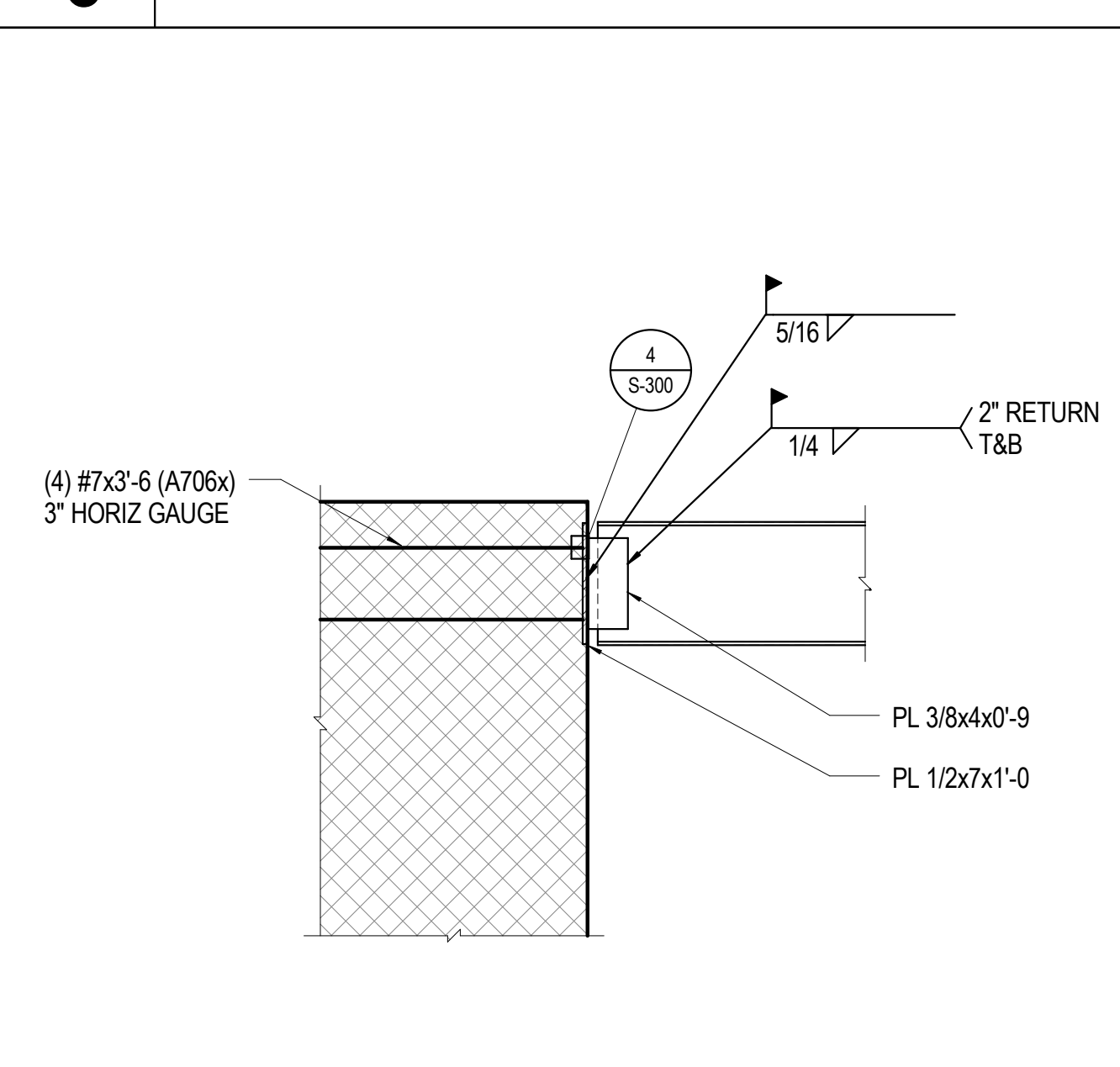
4 3/4" = 1'-0" ROOF OVERHANG - 4



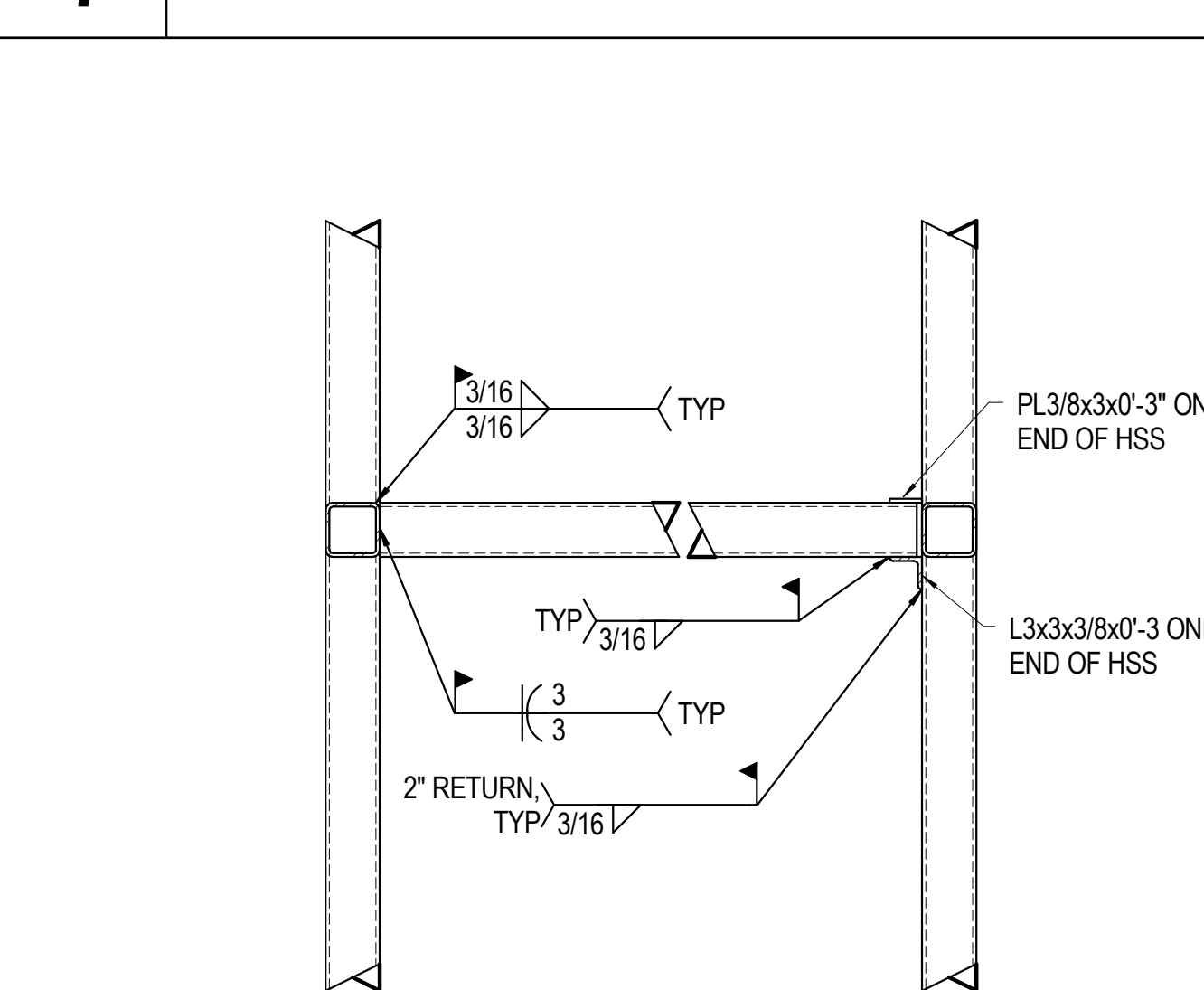
5 3/4" = 1'-0" ROOF AT EXISTING BUILDING



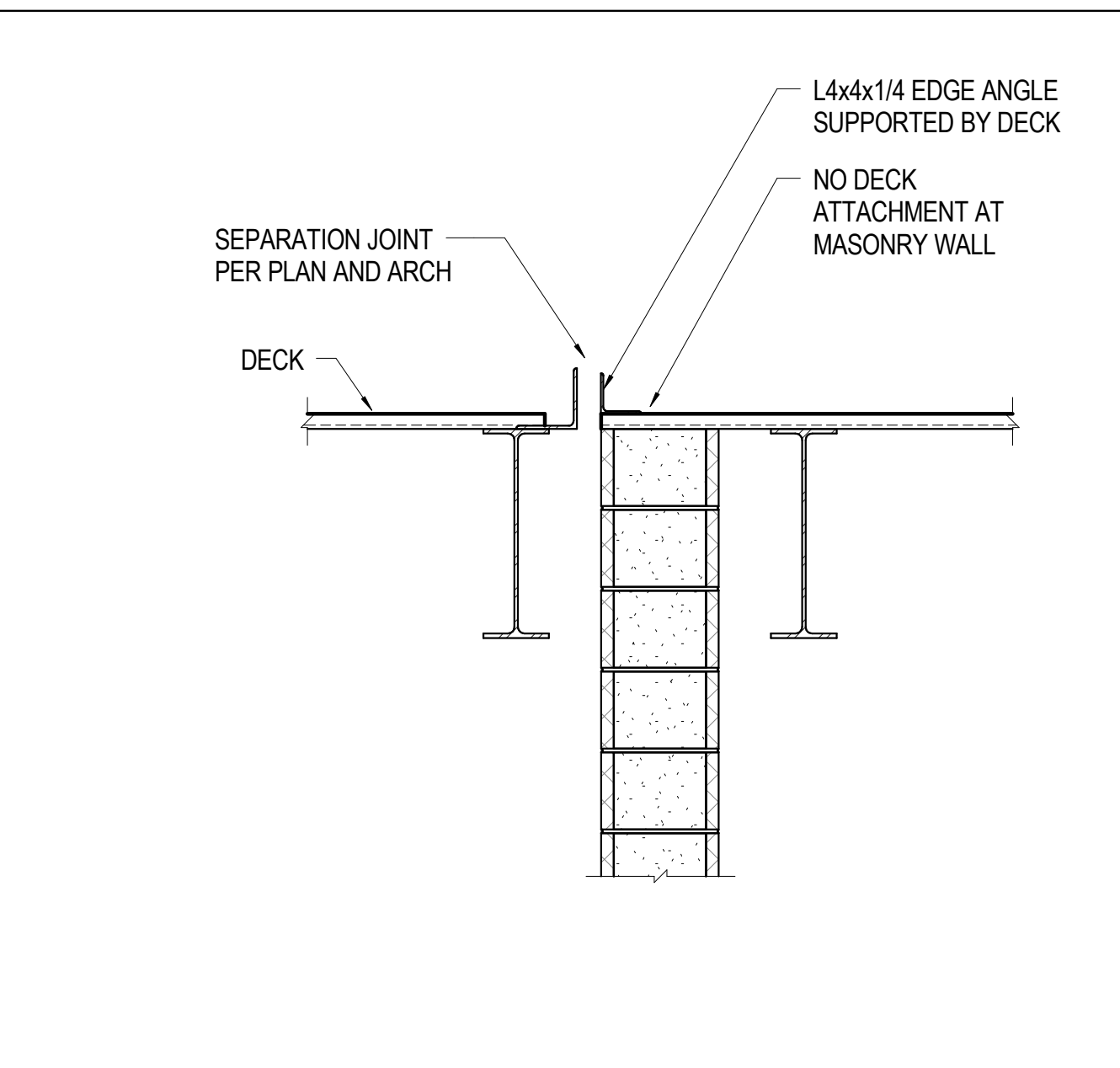
10 3/4" = 1'-0" LOW ROOF AT GLAZING



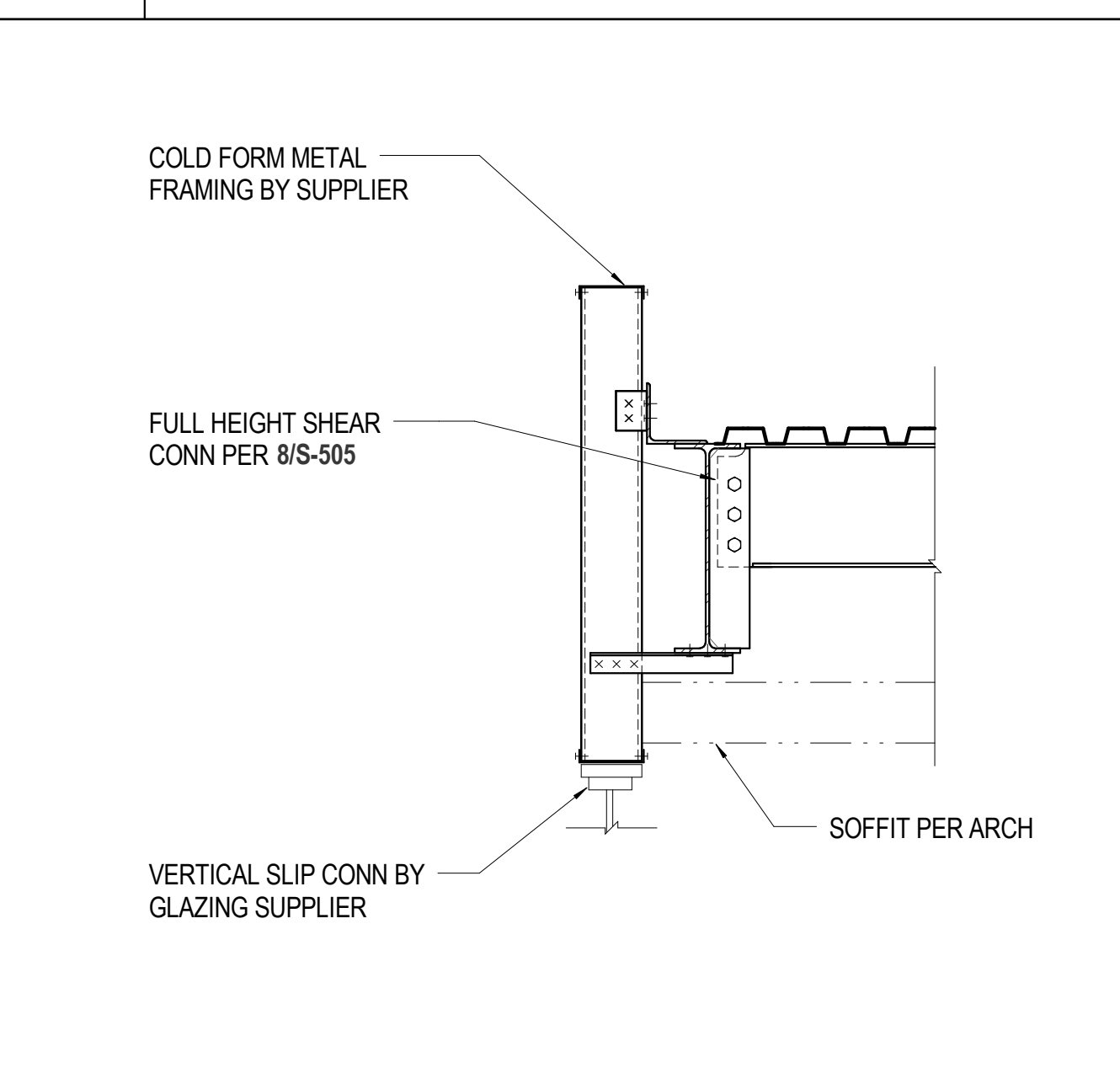
7 3/4" = 1'-0" EMBED PL AT END OF MAS WALL



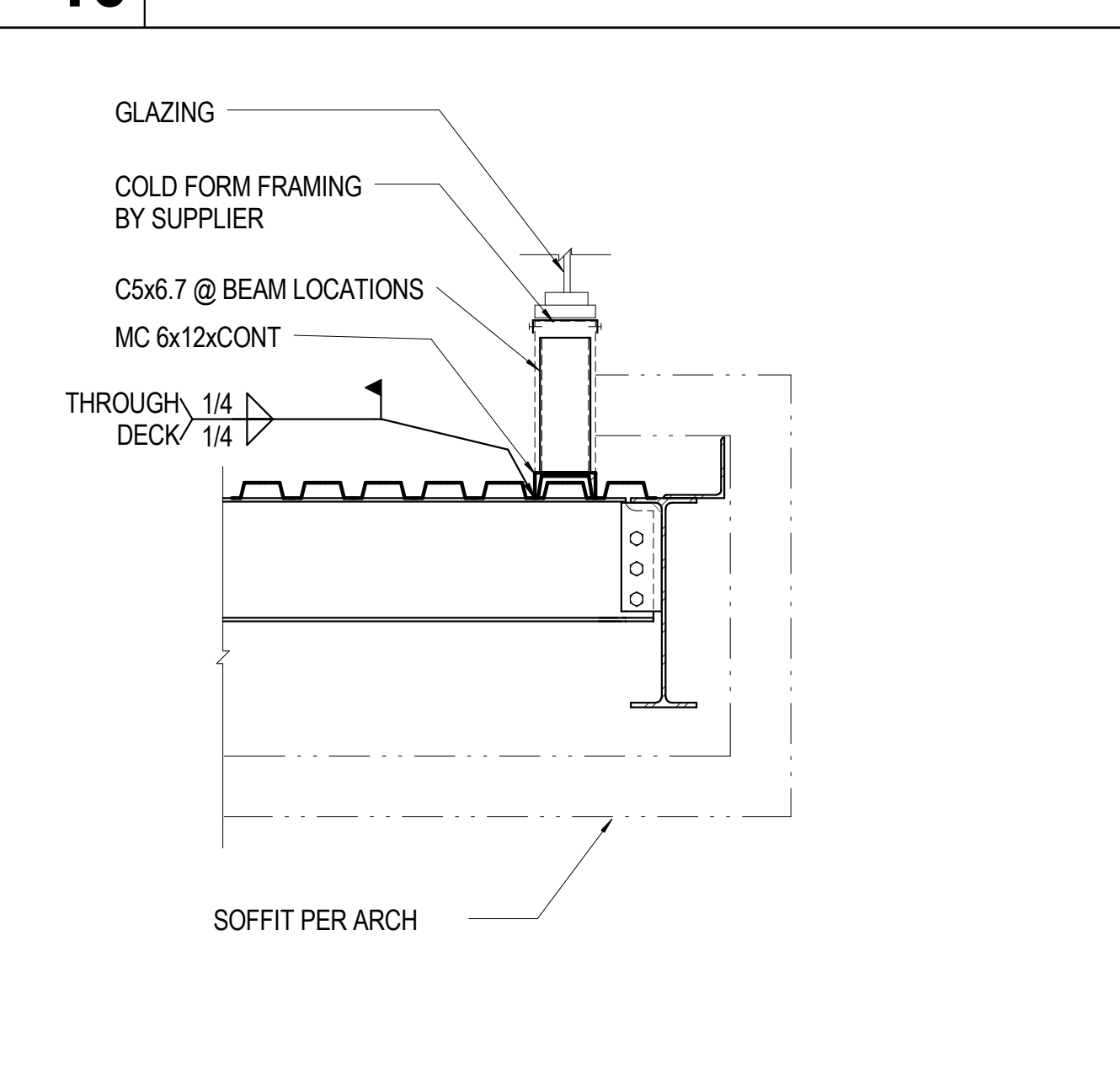
8 3/4" = 1'-0" ELEVATOR RAIL BRACE



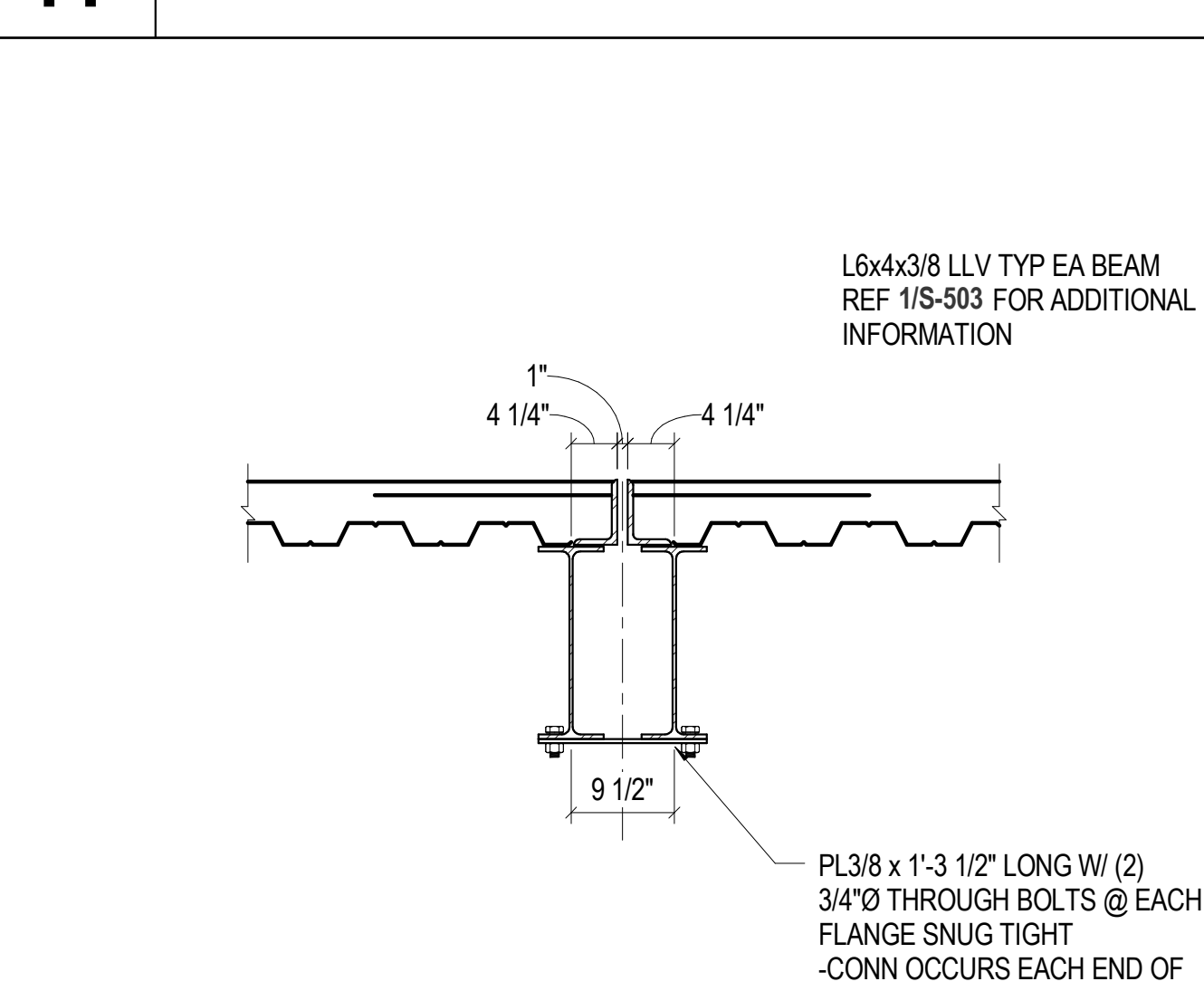
9 3/4" = 1'-0" ROOF AT SEPARATION JOINT



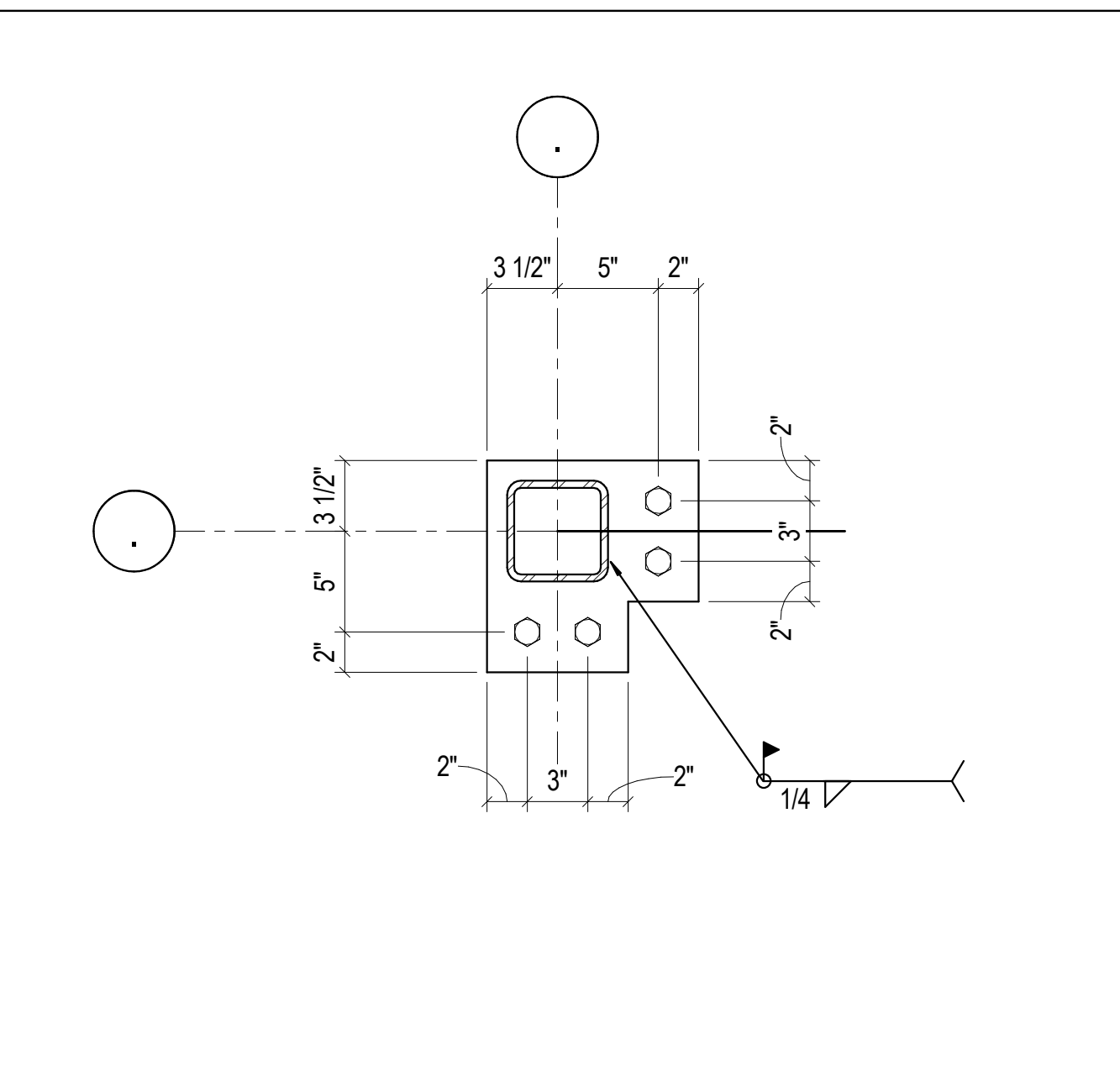
11 3/4" = 1'-0" INTERIOR EDGE OF LOW ROOF



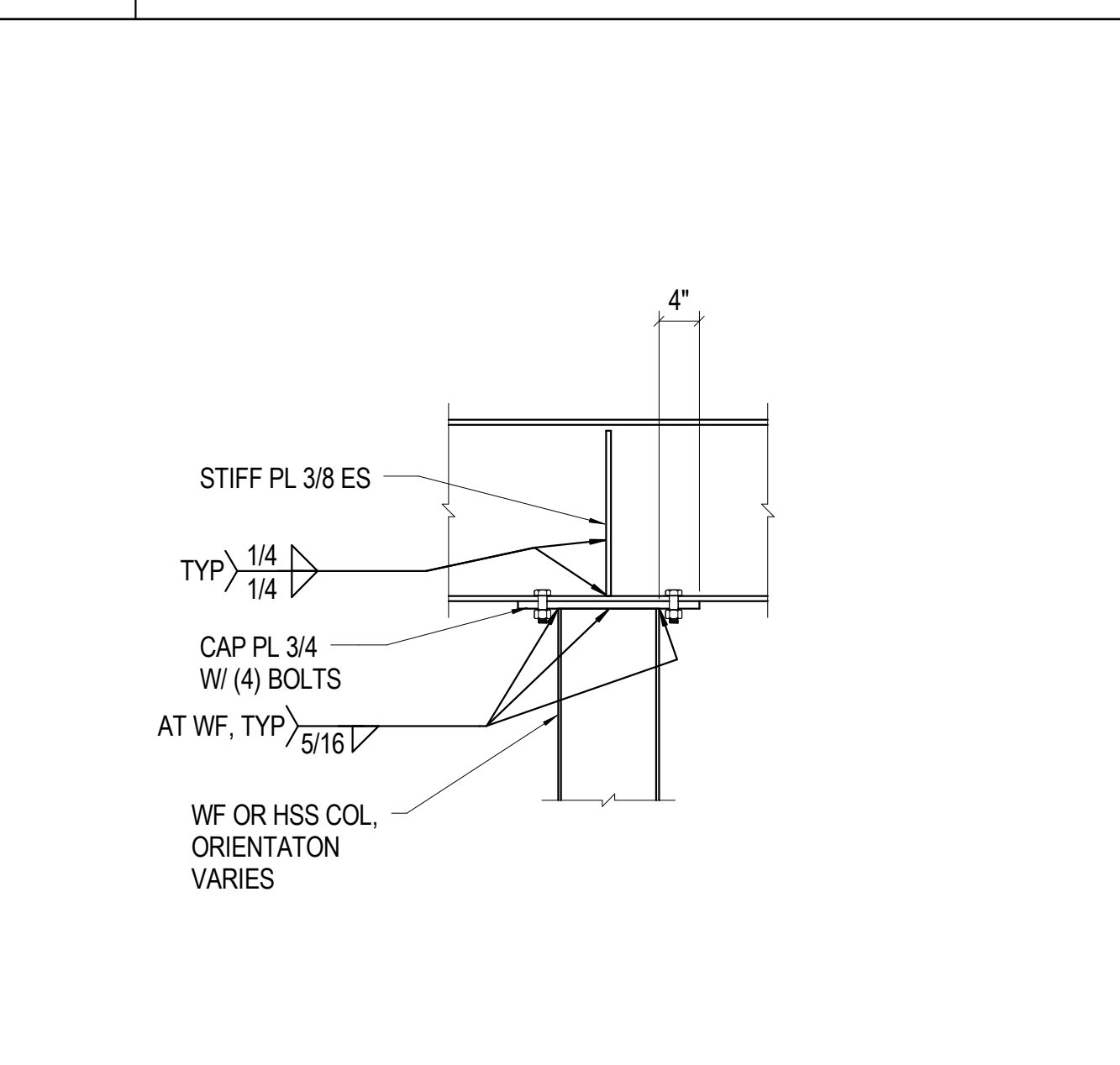
11 3/4" = 1'-0" INTERIOR EDGE OF LOW ROOF



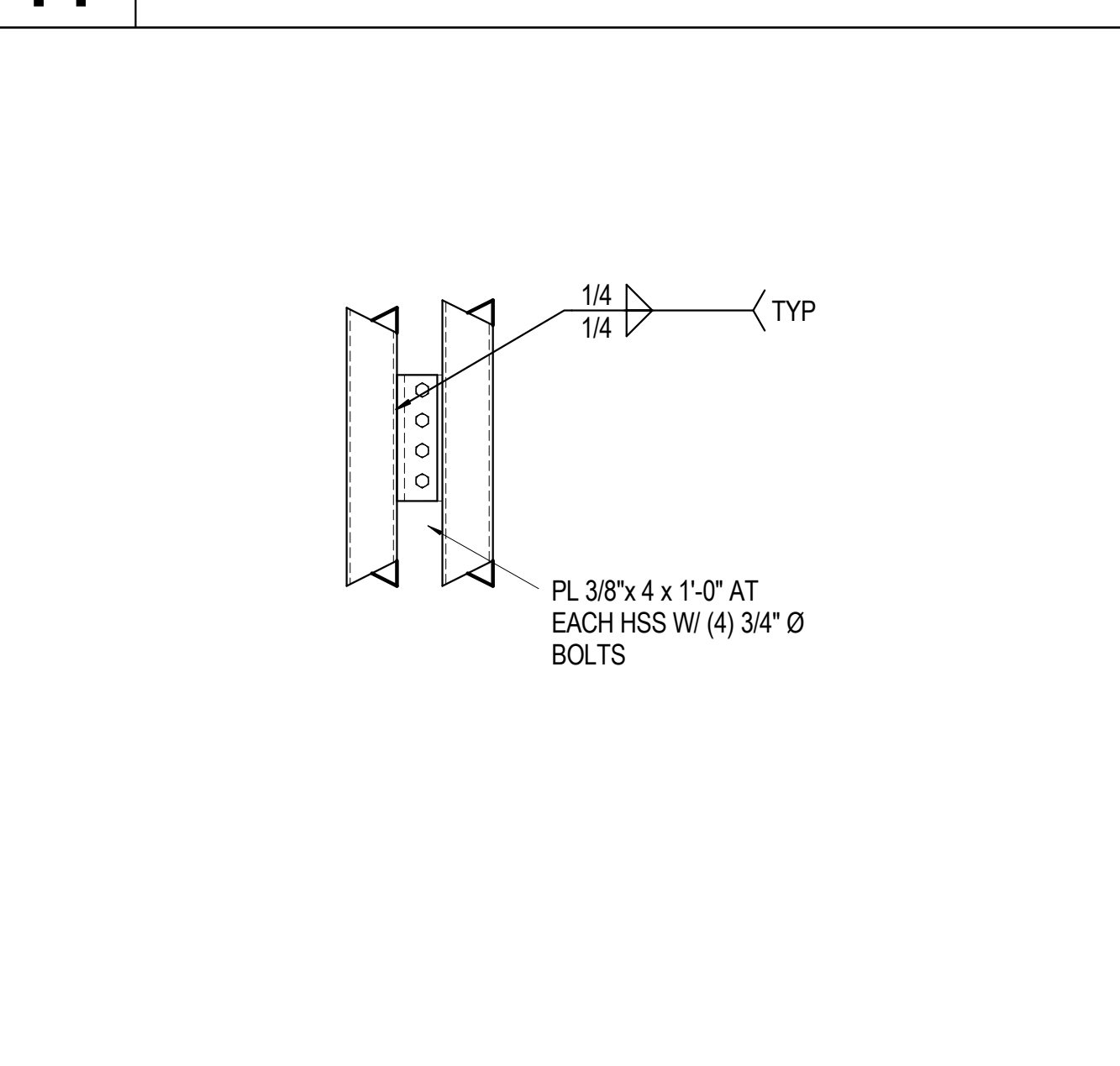
12 3/4" = 1'-0" FLOOR JOINT



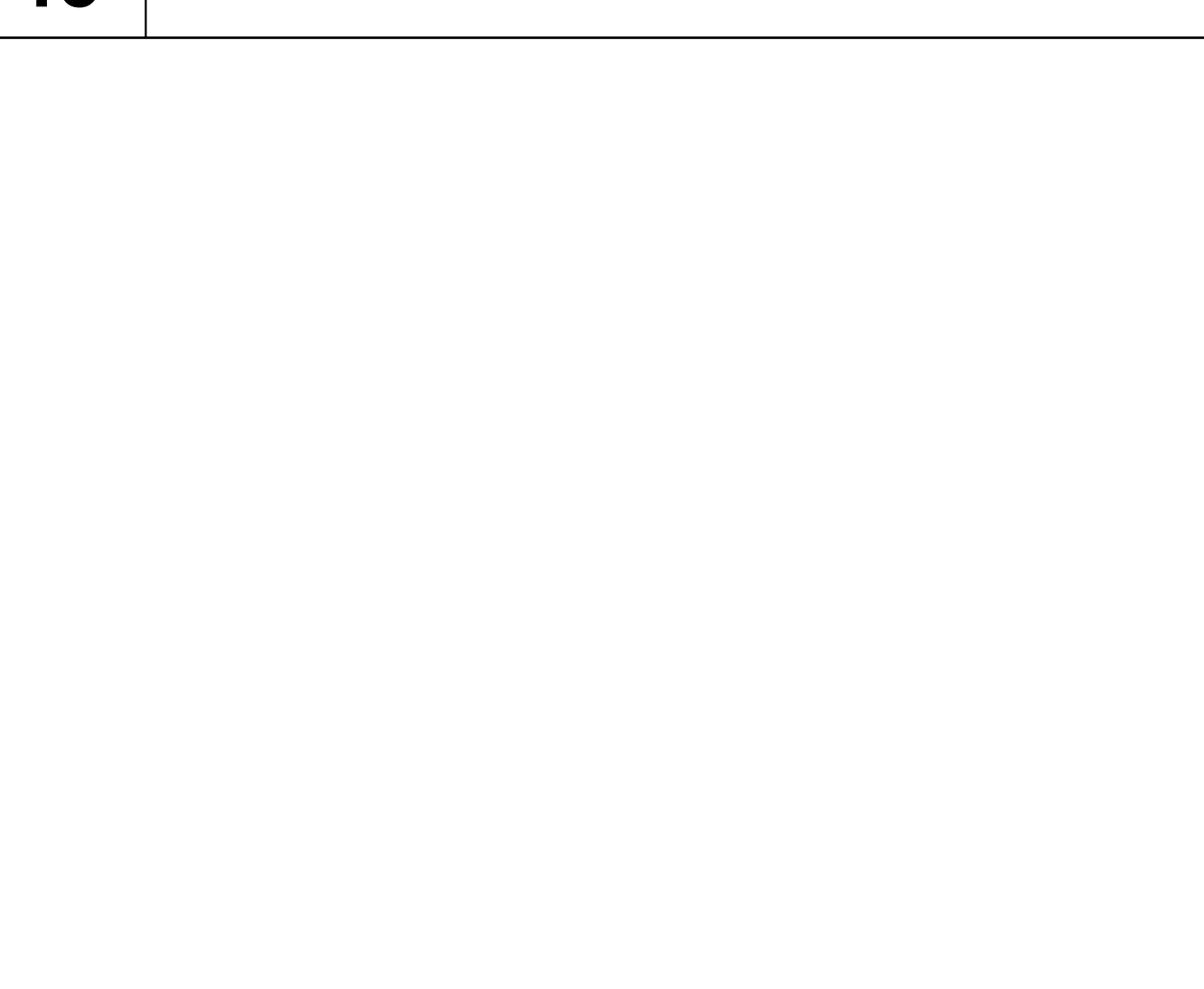
13 1 1/2" = 1'-0" BASE PL AT ELEVATOR



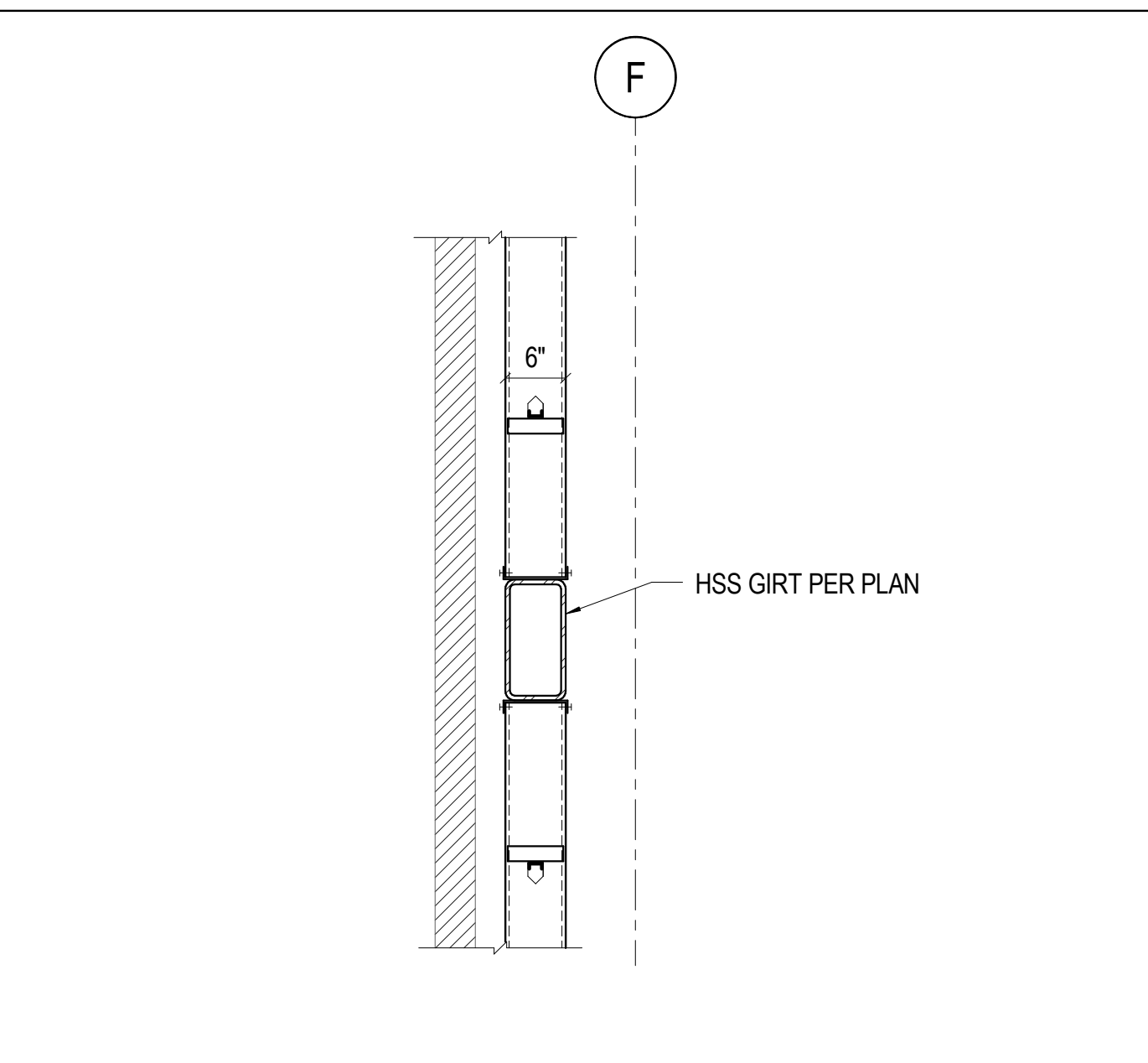
14 3/4" = 1'-0" TYP BM OVER COLUMN



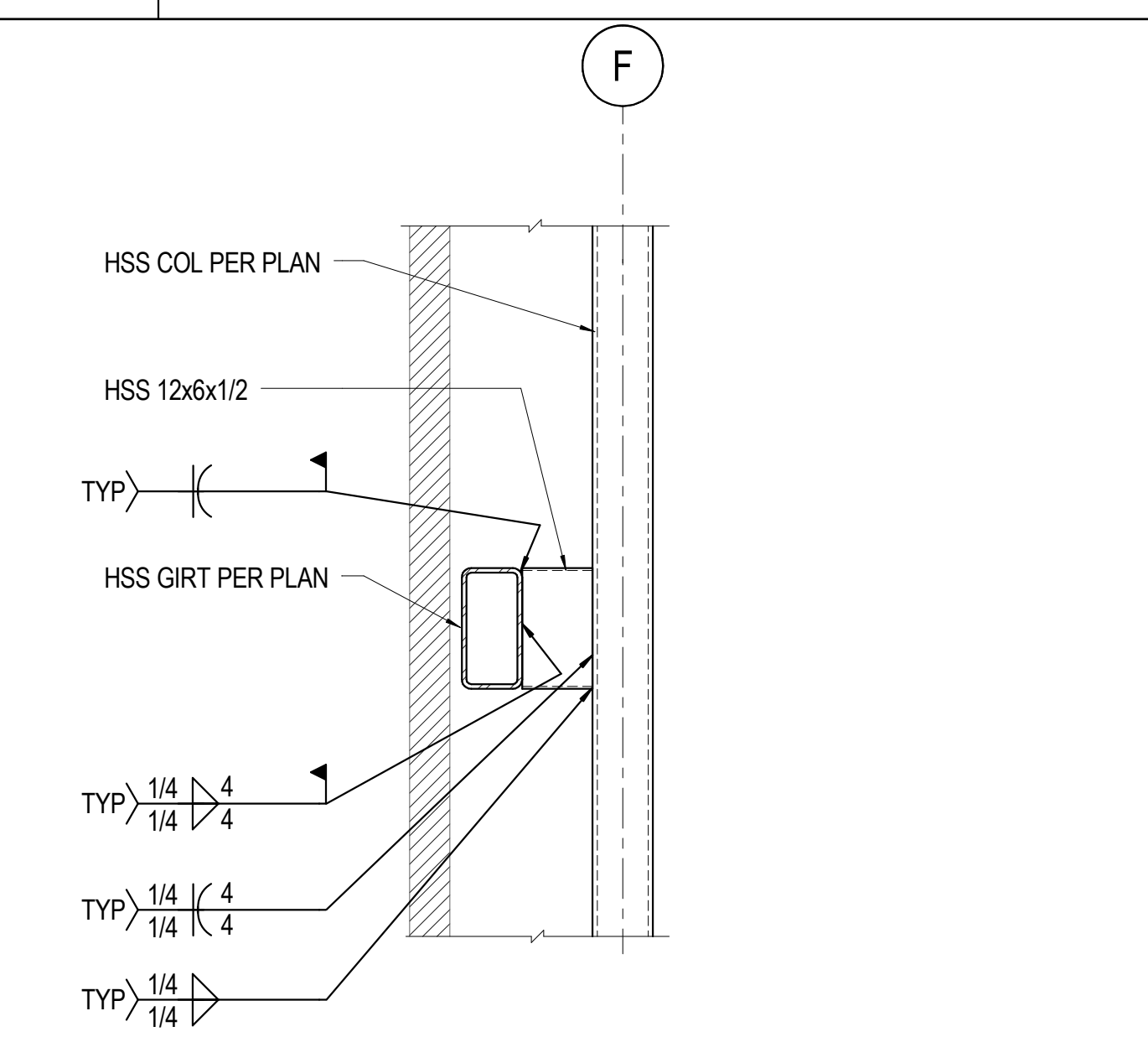
15 3/4" = 1'-0" DRAG CONN AT JOINT



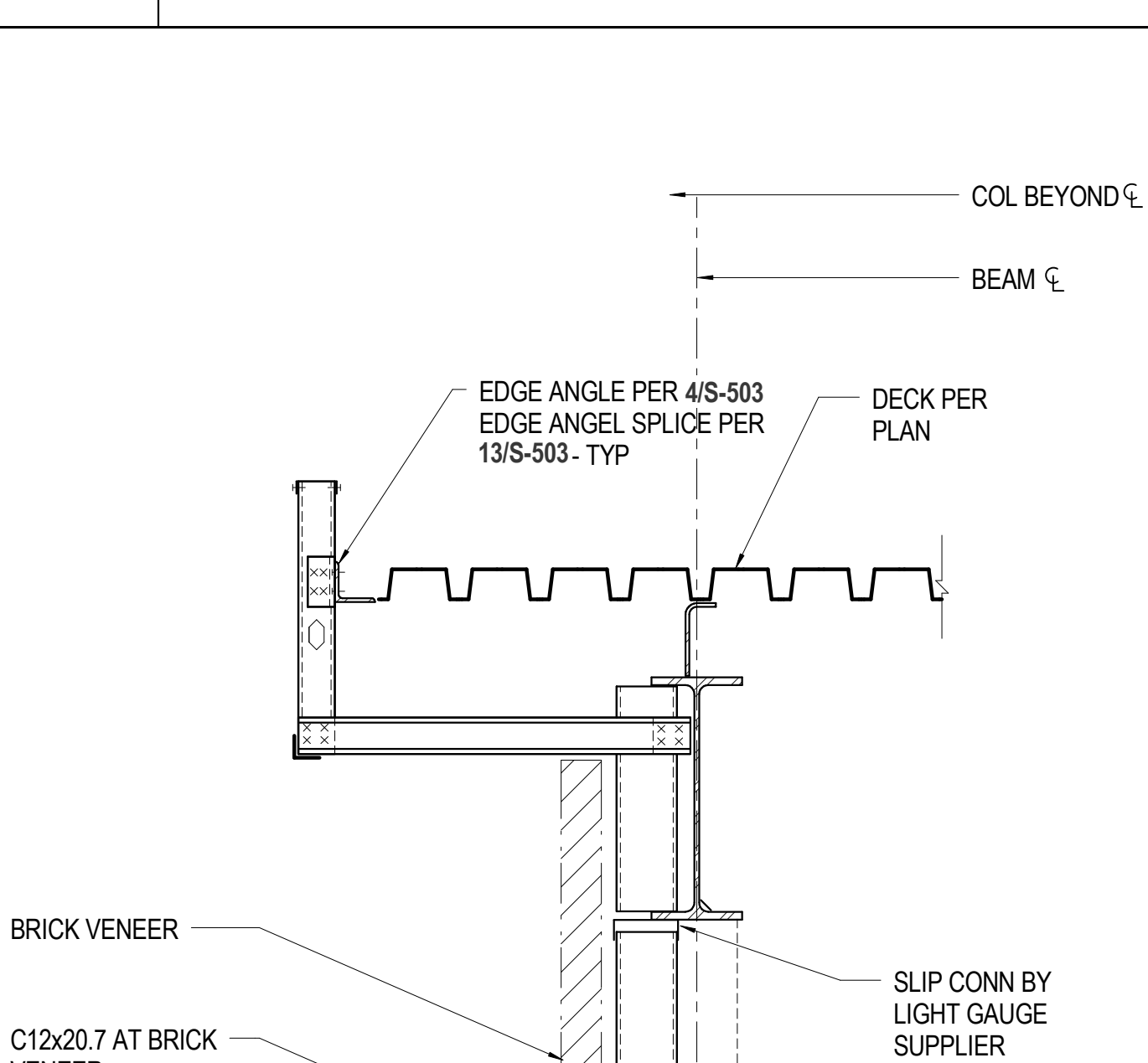
20 3/4" = 1'-0" BRICK AT HIGH ROOF / GYM ROOF



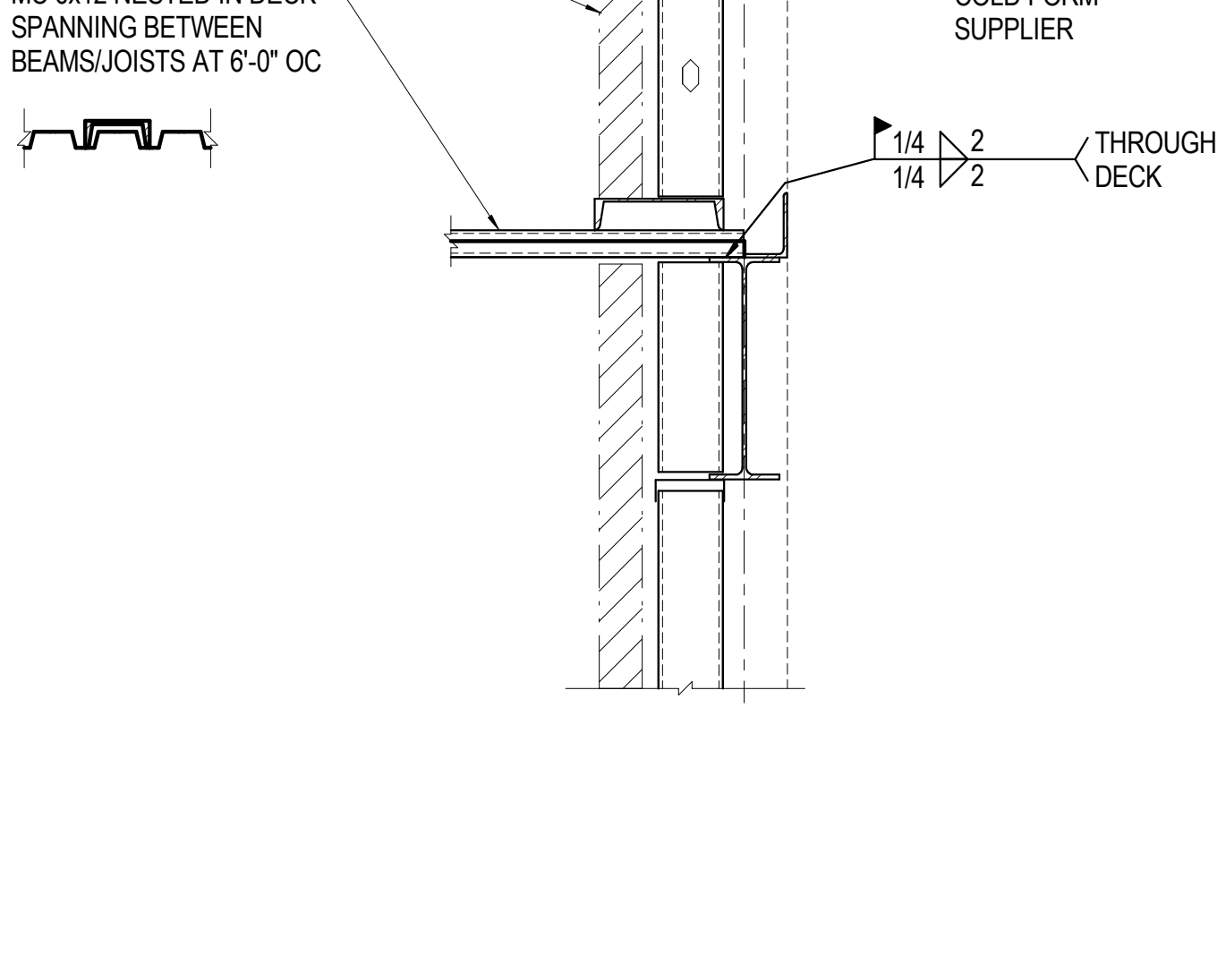
17 3/4" = 1'-0" WIND GIRTS AT STAIR



18 3/4" = 1'-0" WIND GIRTS AT STAIR AT COLUMN

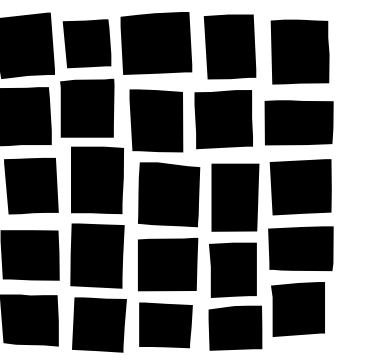


18 3/4" = 1'-0" WIND GIRTS AT STAIR AT COLUMN



18 3/4" = 1'-0" WIND GIRTS AT STAIR AT COLUMN

DESIGNERS: LP, CS
DRAWN BY: TL
CHECKED BY: CS
FILE PATH: C:\Proj\15_0256_RRCC Rec Center_R15_Gain\Sheet
MM JOB #: 15.0256.S.01
REV: 15.0256.S.01
EOR: CS
PROJECT MANAGER: LP



**DAVIS
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Consultant

Issue/Revisions Date No.

Addendum #2	12-4-2015	1
Addendum #3	12-9-2015	2

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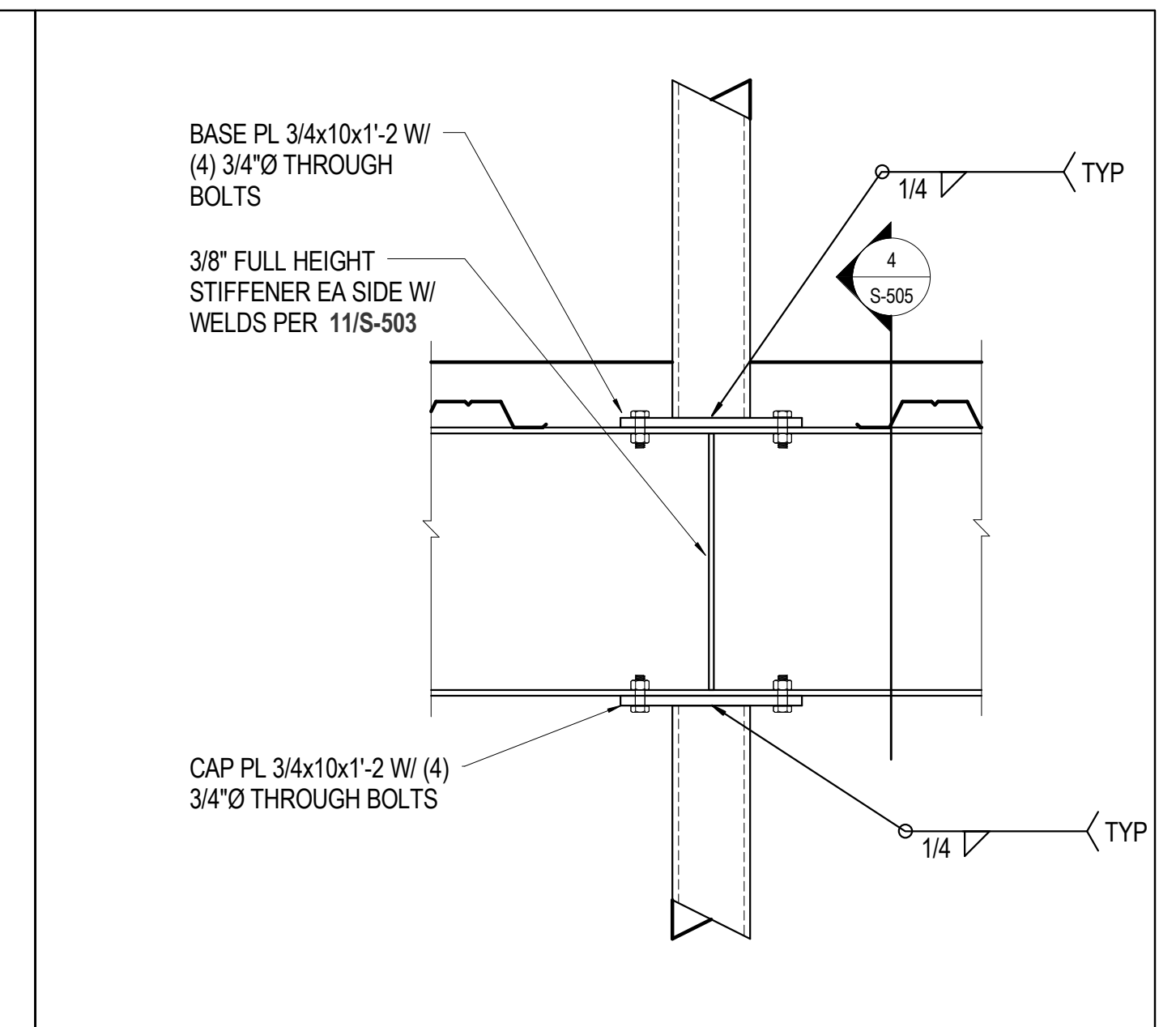
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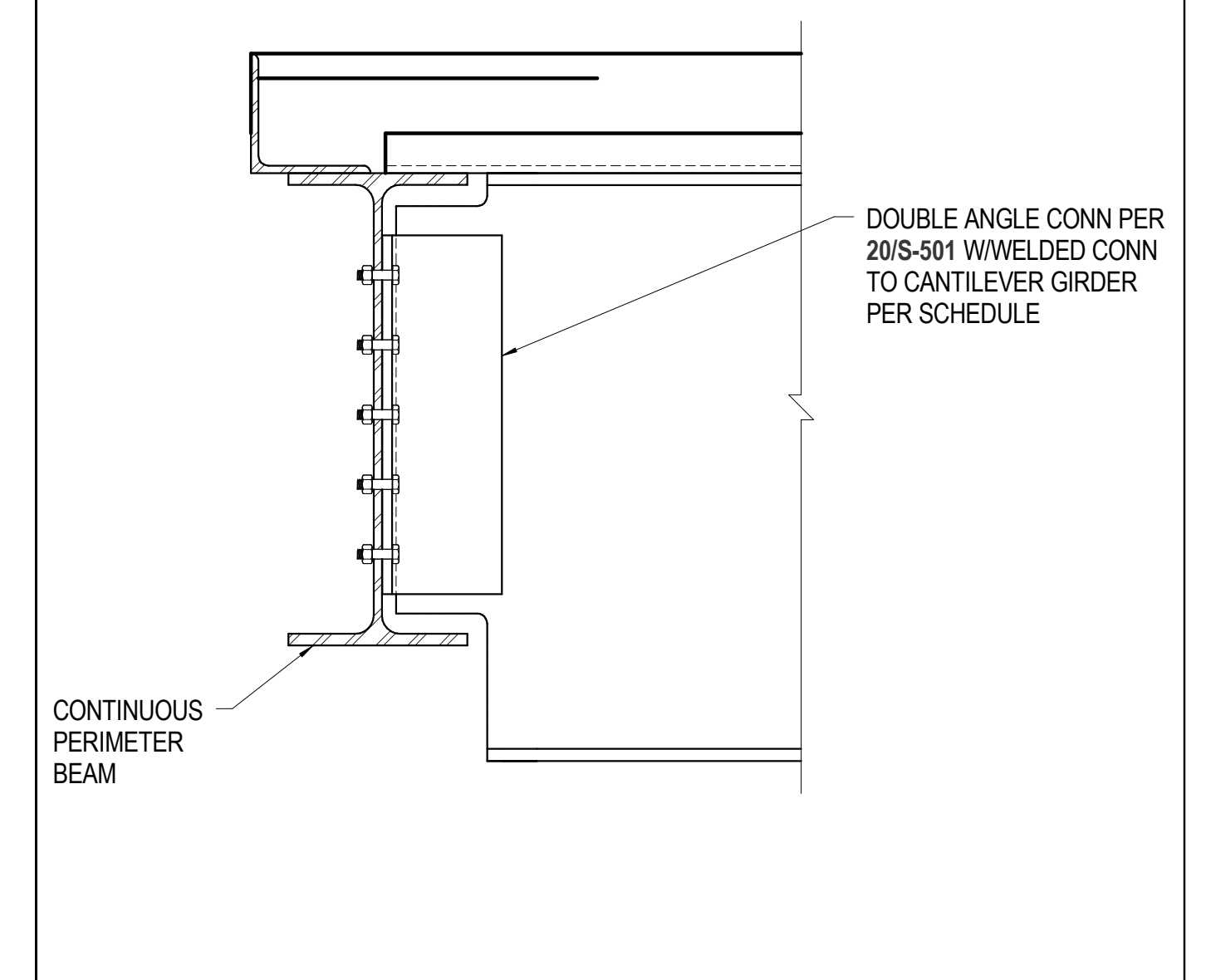
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DOCUMENTS
Sheet Number:

S-505

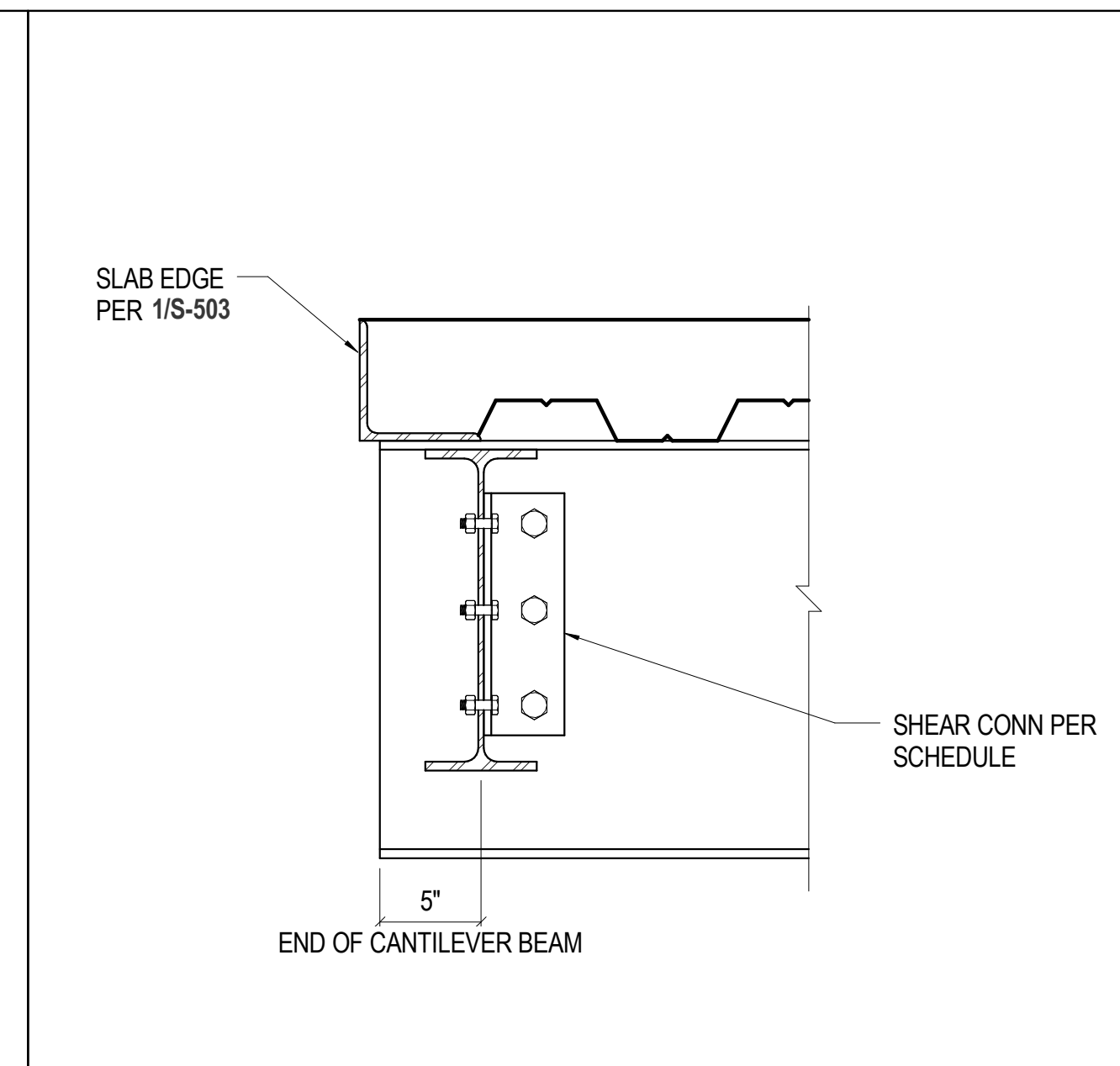
MM Project: 15.0256.S.01



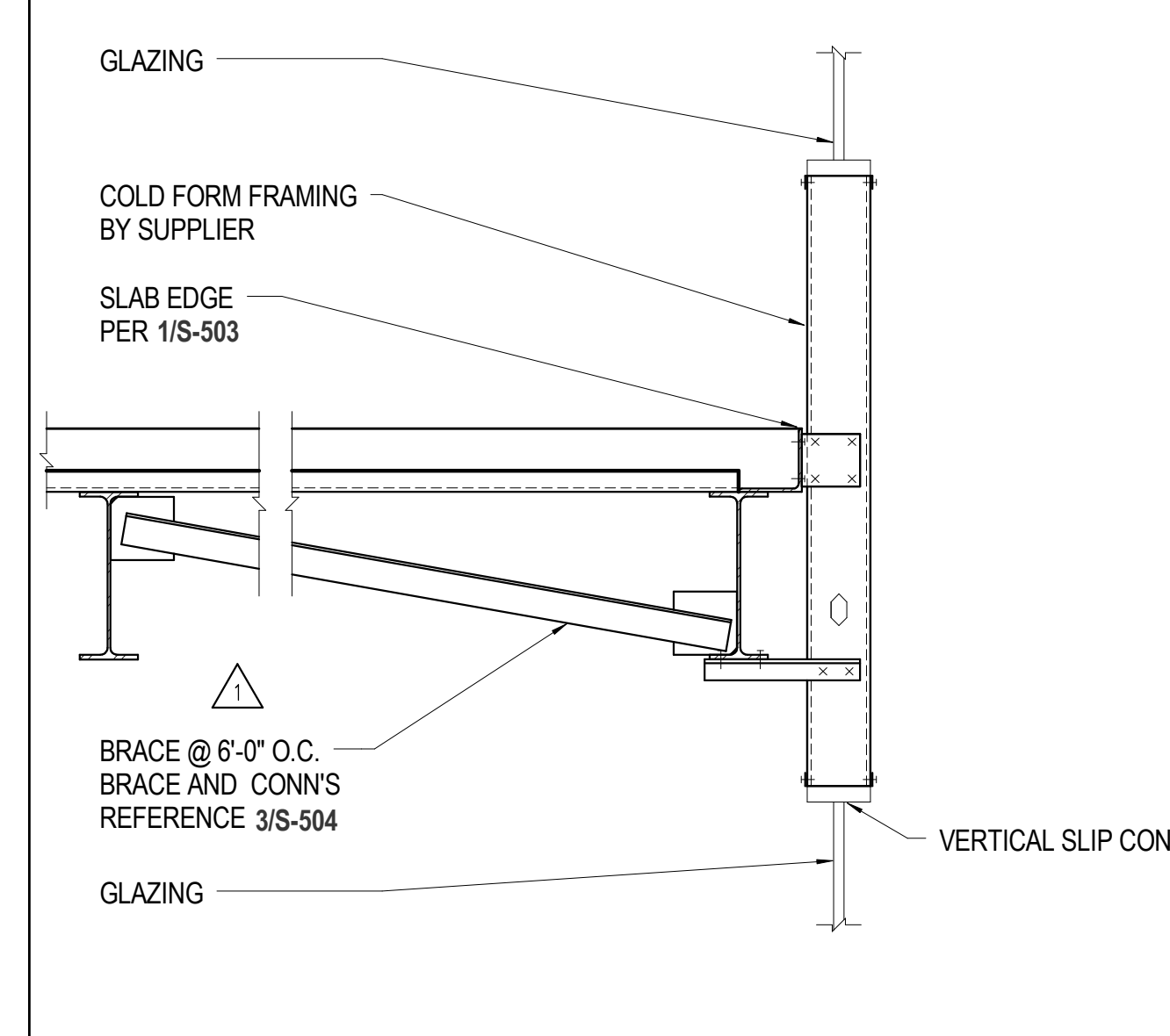
1 1" = 1'-0" HSS COL CONN TO WF



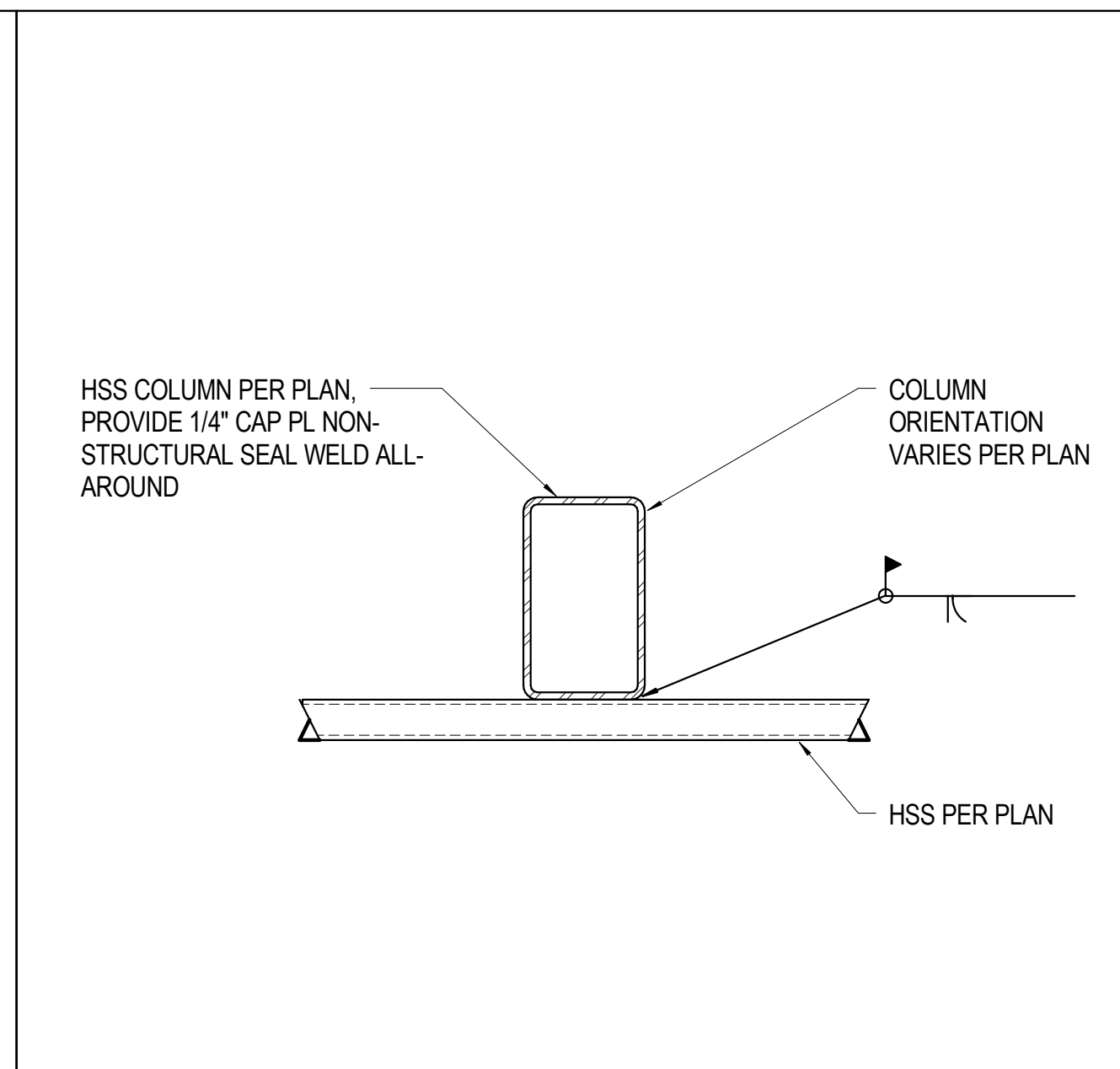
2 1 1/2" = 1'-0" WF CANTILEVER CONN TO WF GIRDER



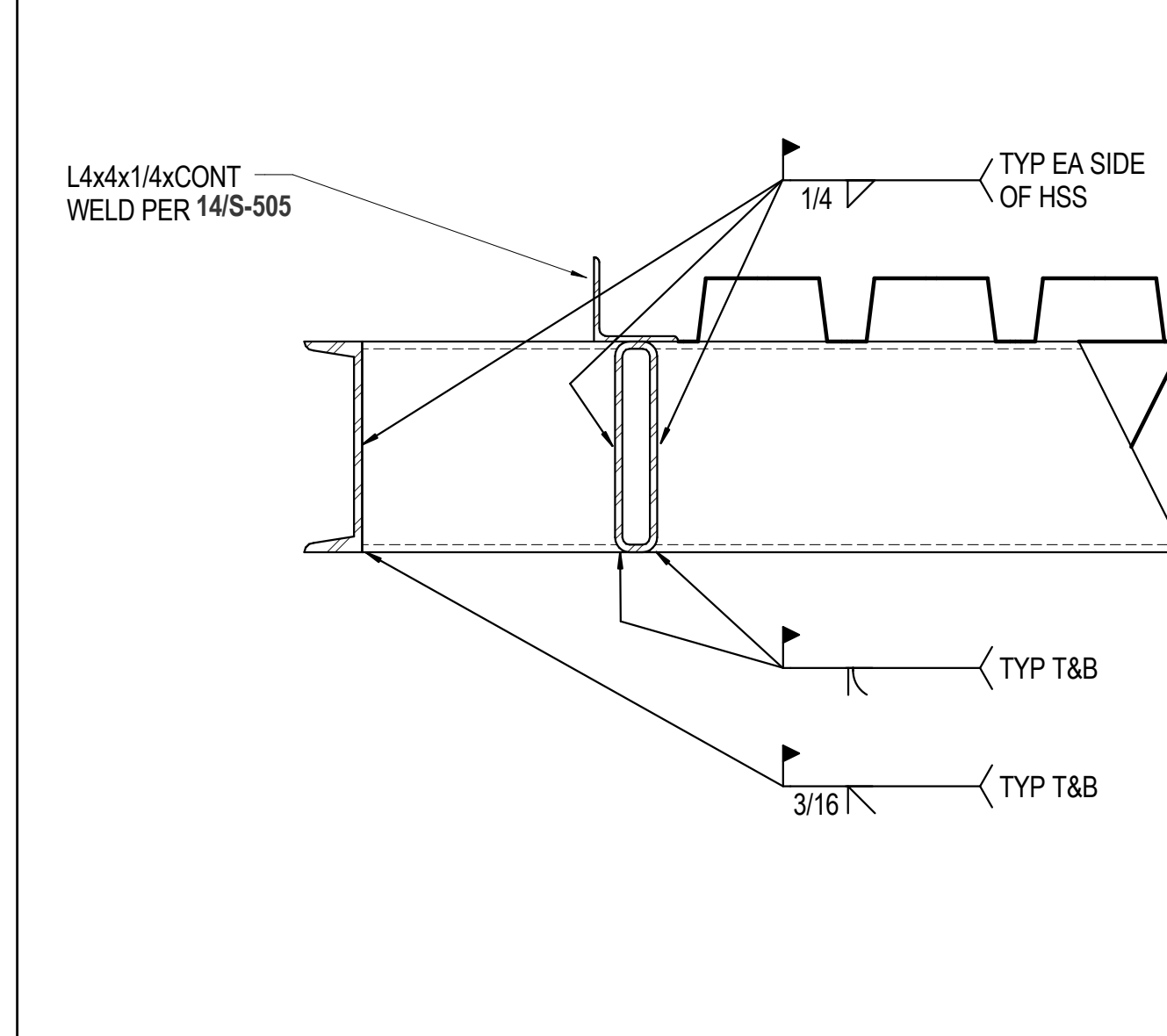
5 1 1/2" = 1'-0" BEAM CONN AT END OF CANTILEVER



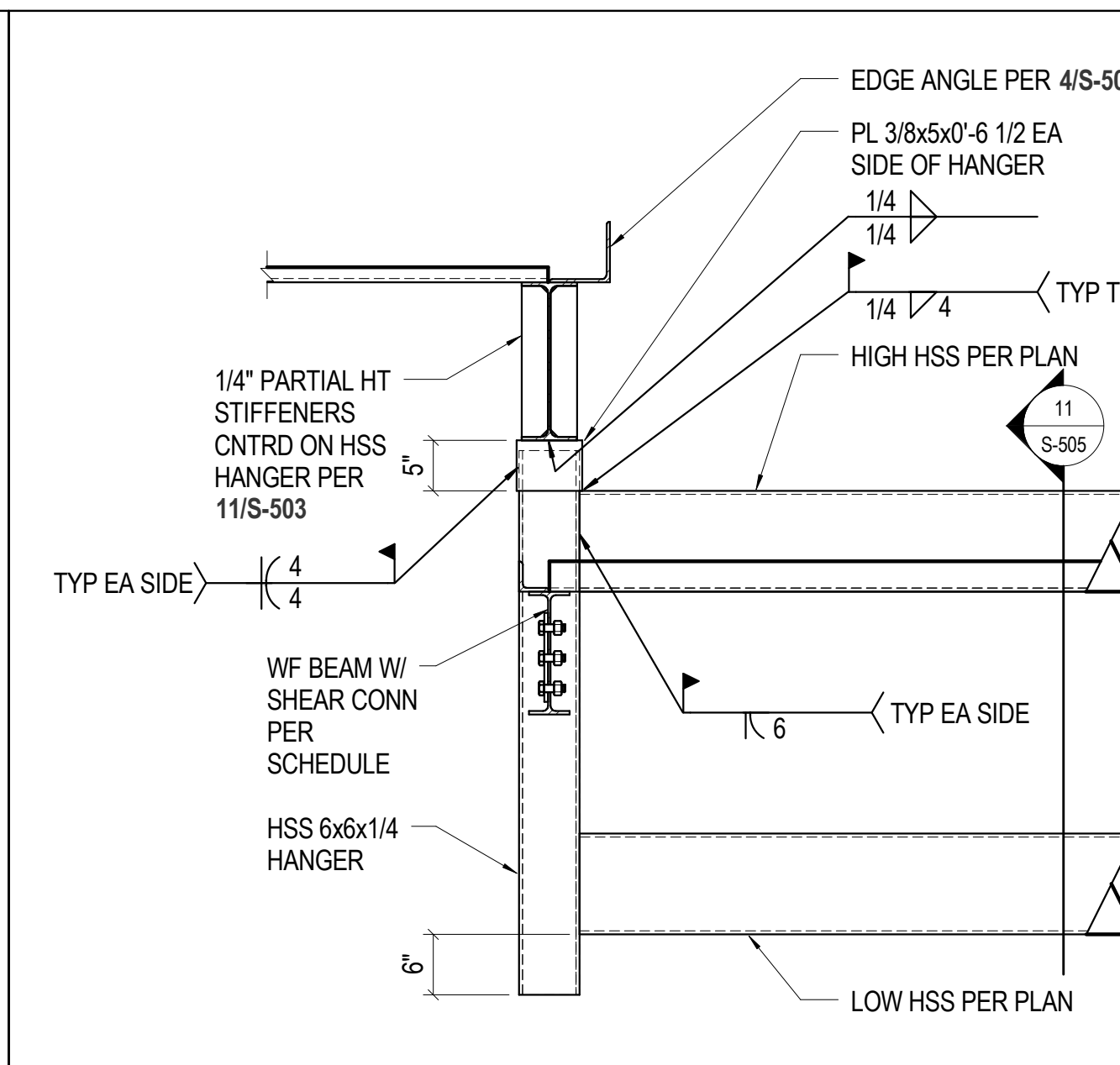
6 3/4" = 1'-0" WALL AT RIBBON WINDOW



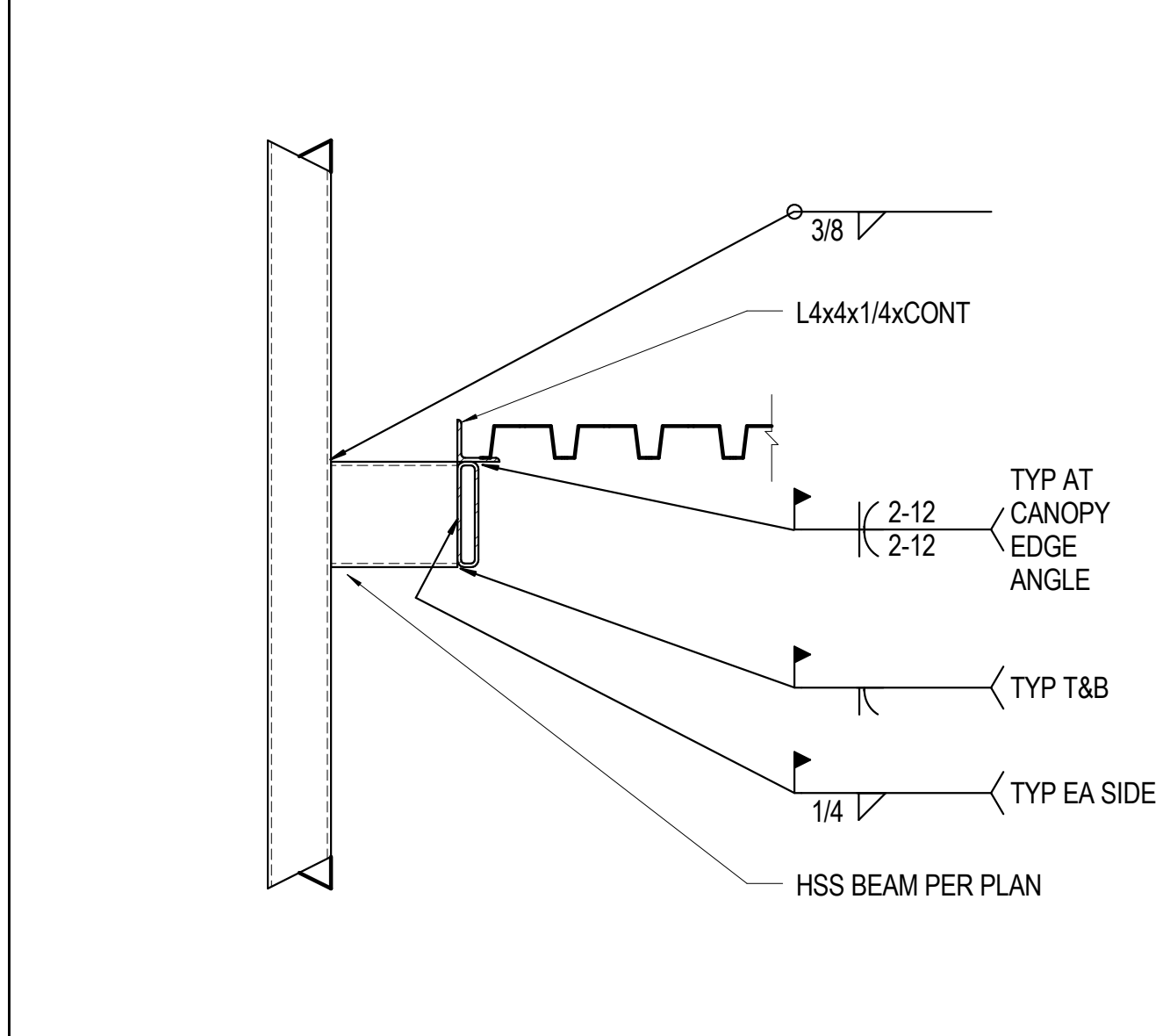
9 1 1/2" = 1'-0" HSS SUPPORT AT COLUMN



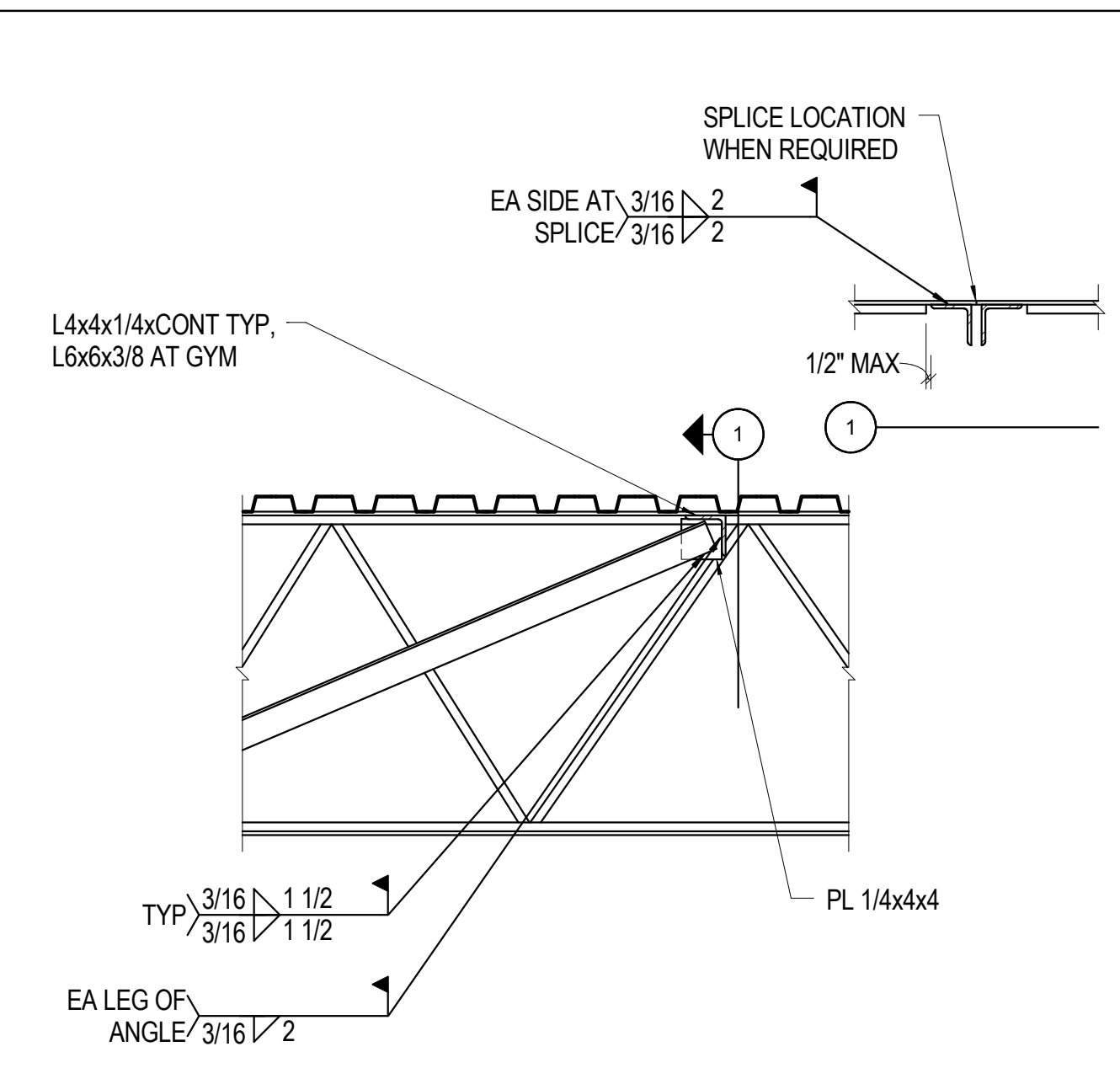
10 1 1/2" = 1'-0" TYP HSS CANTILEVER EDGE



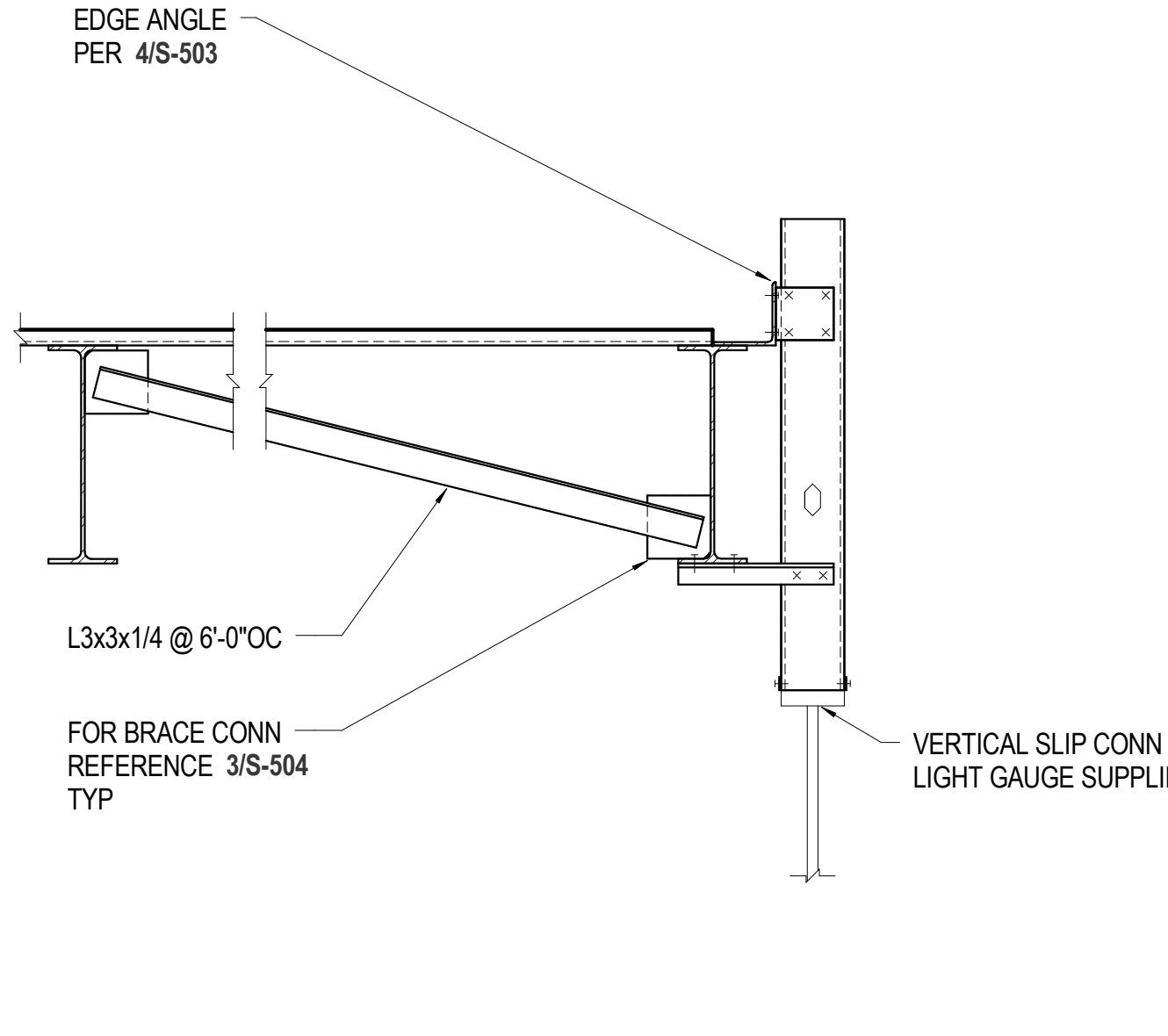
13 3/4" = 1'-0" HANGER AT CANOPY



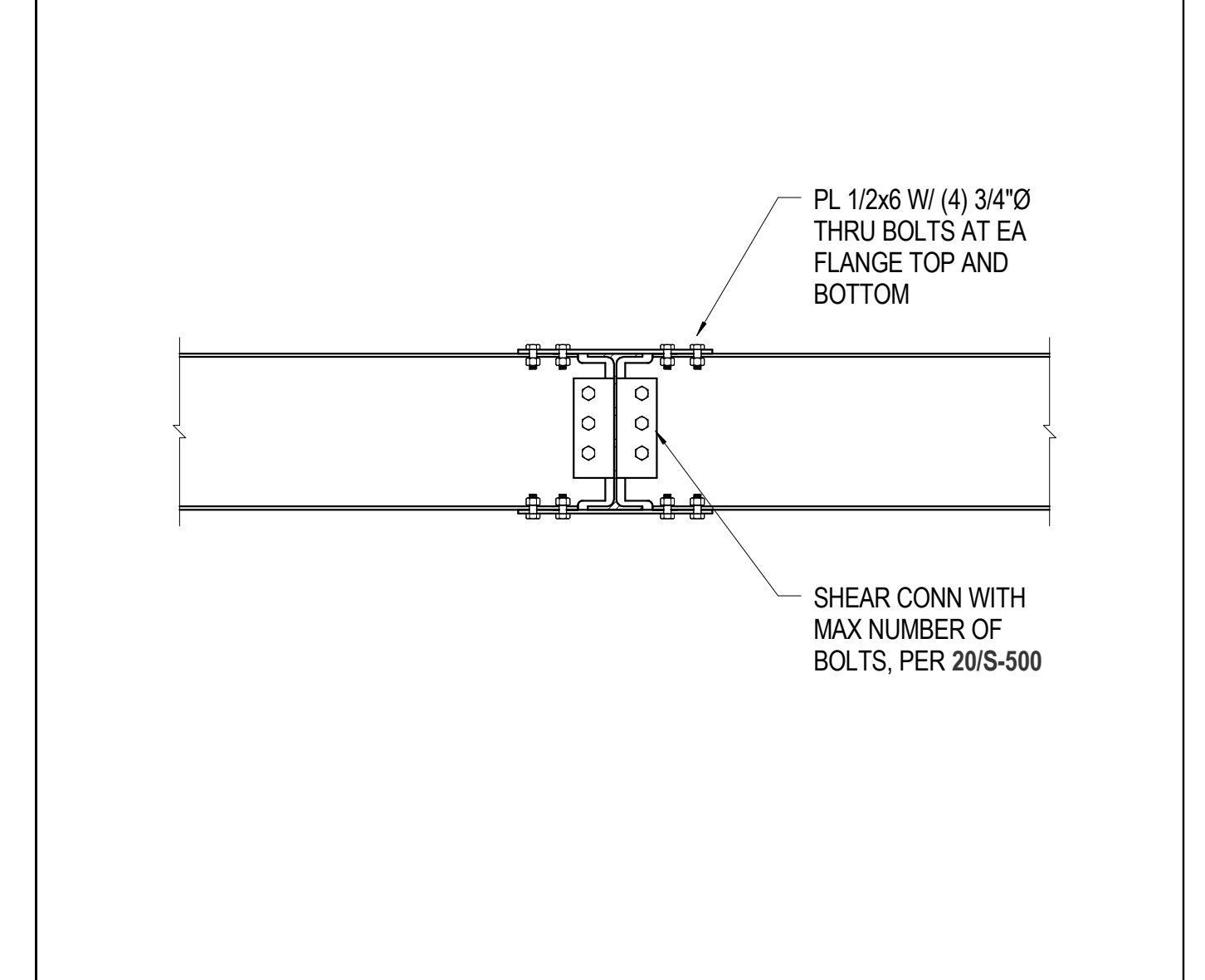
14 3/4" = 1'-0" CANTILEVER CANOPY SUPPORT



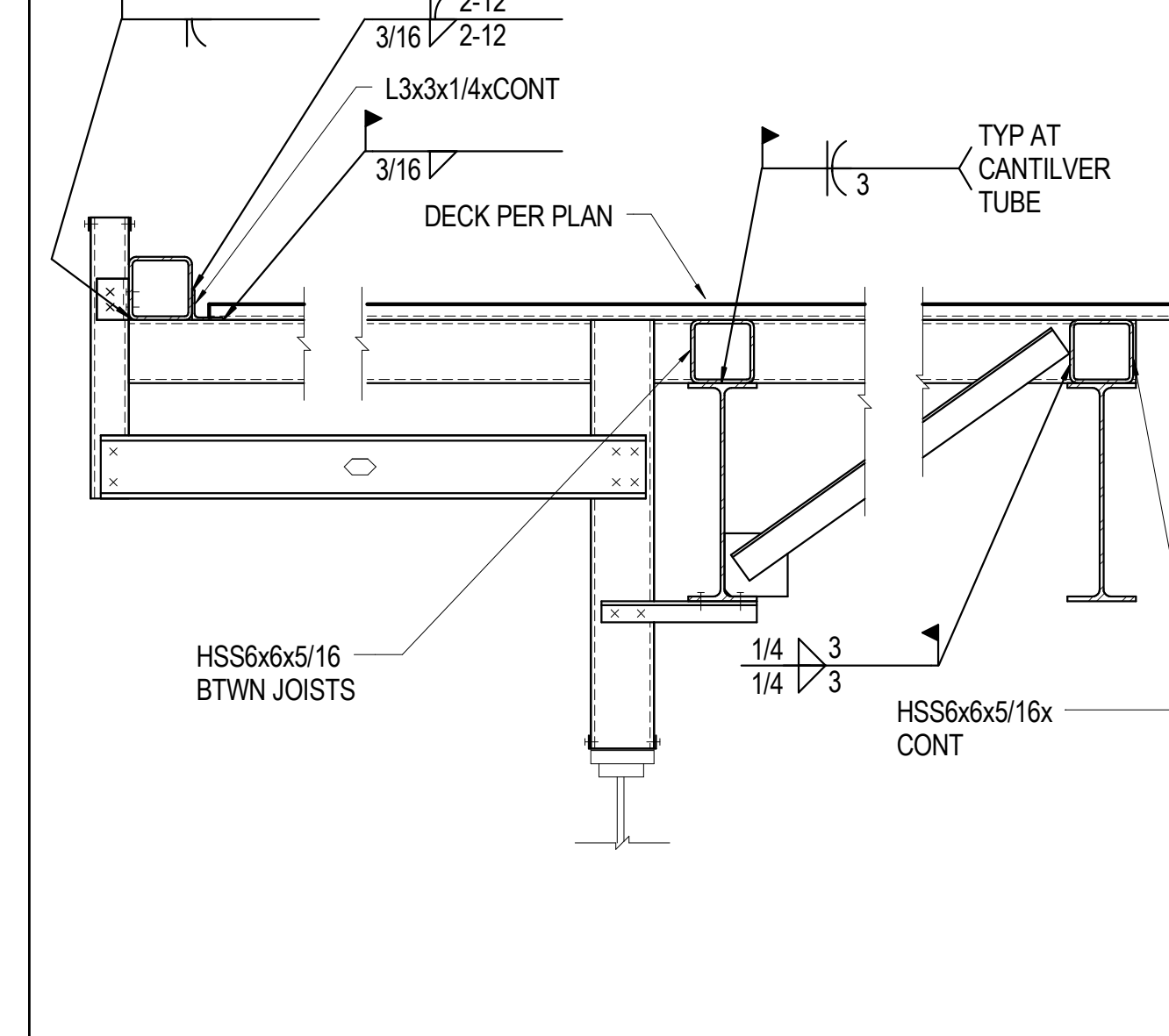
17 3/4" = 1'-0" KICKER TERMINATION



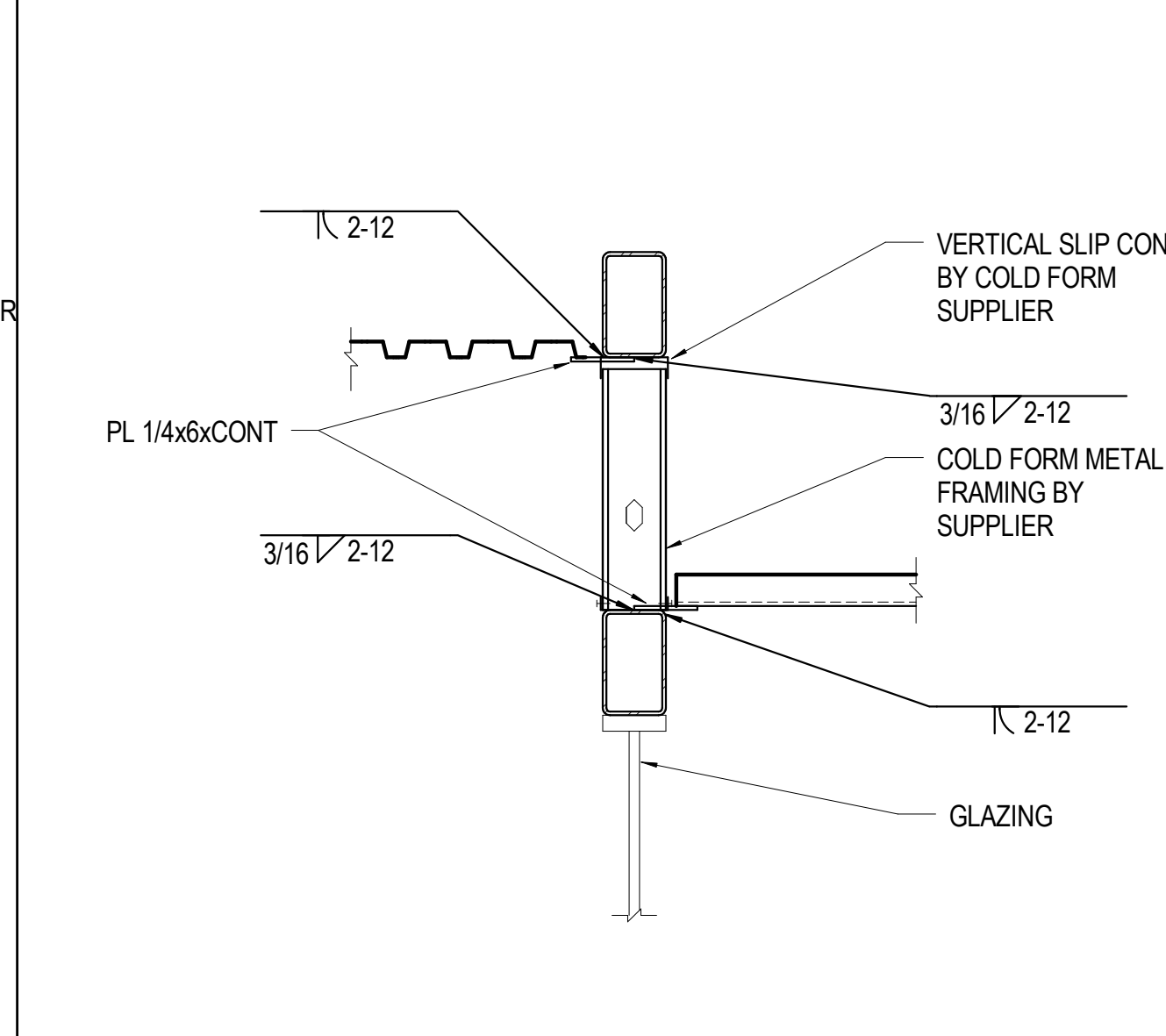
18 3/4" = 1'-0" WALL BRACE AT CONT WINDOW



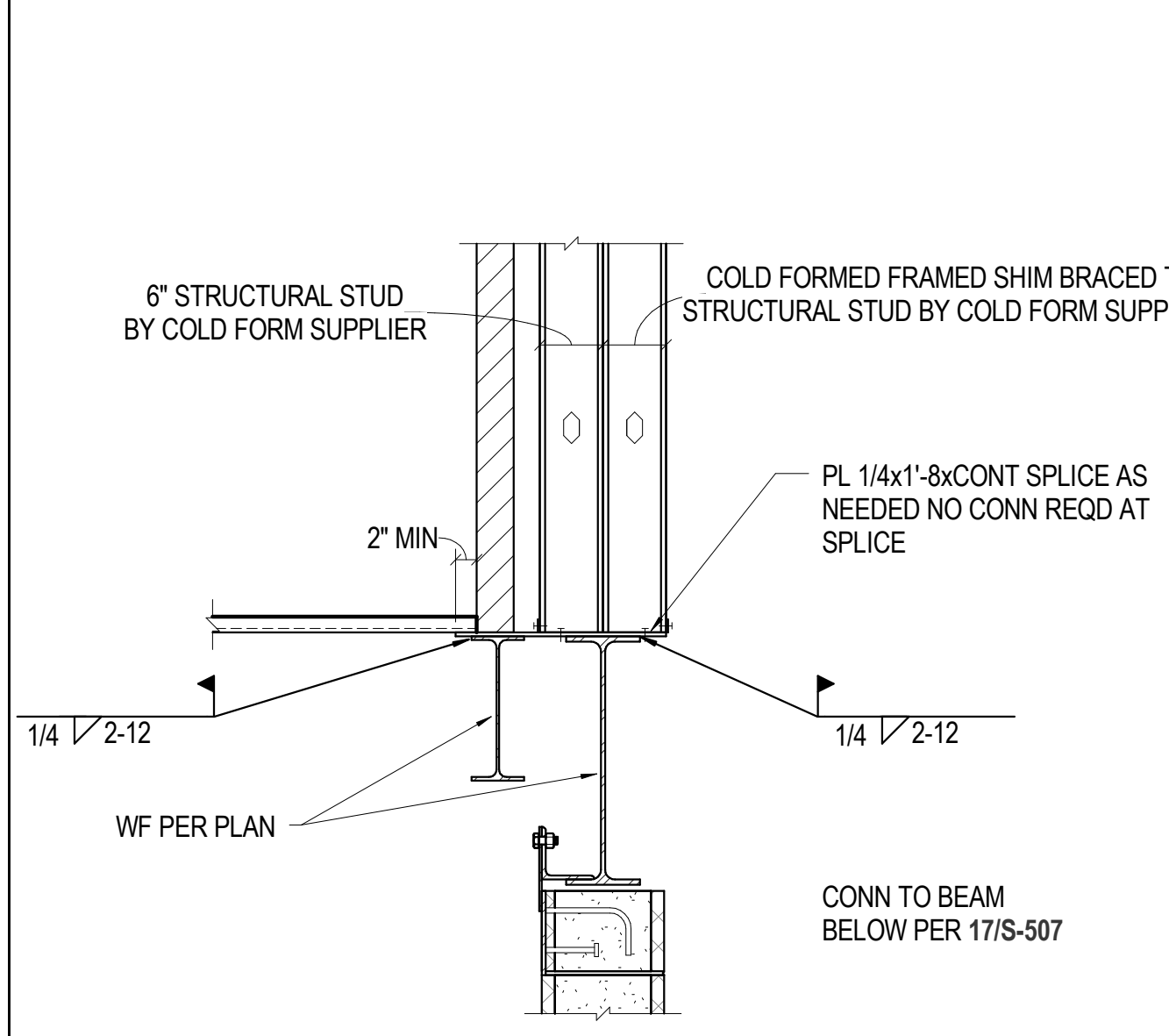
3 3/4" = 1'-0" MOMENT CONNECTION AT METAL STAIR SUPPORT



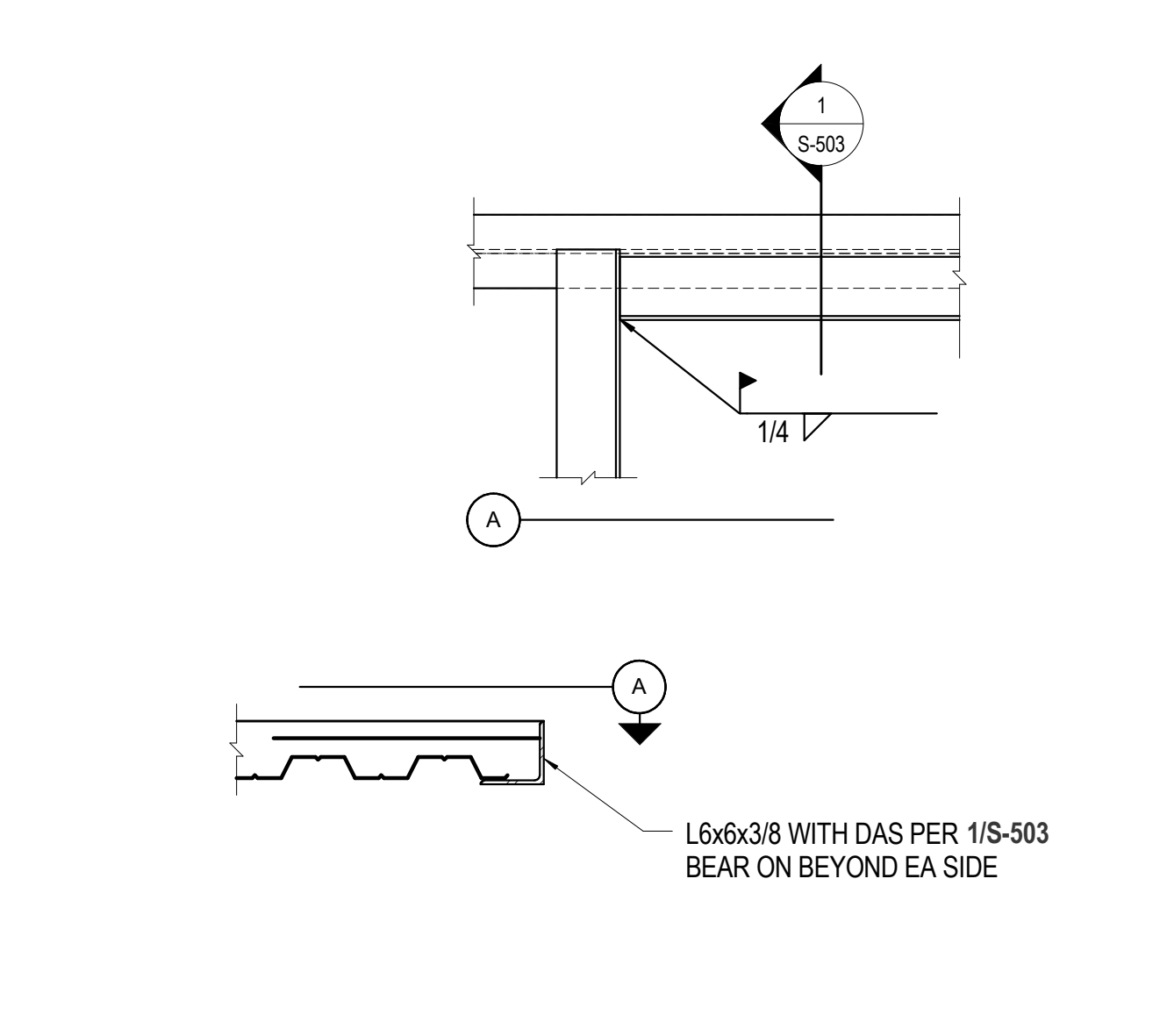
7 3/4" = 1'-0" ROOF OVERHANG - 5



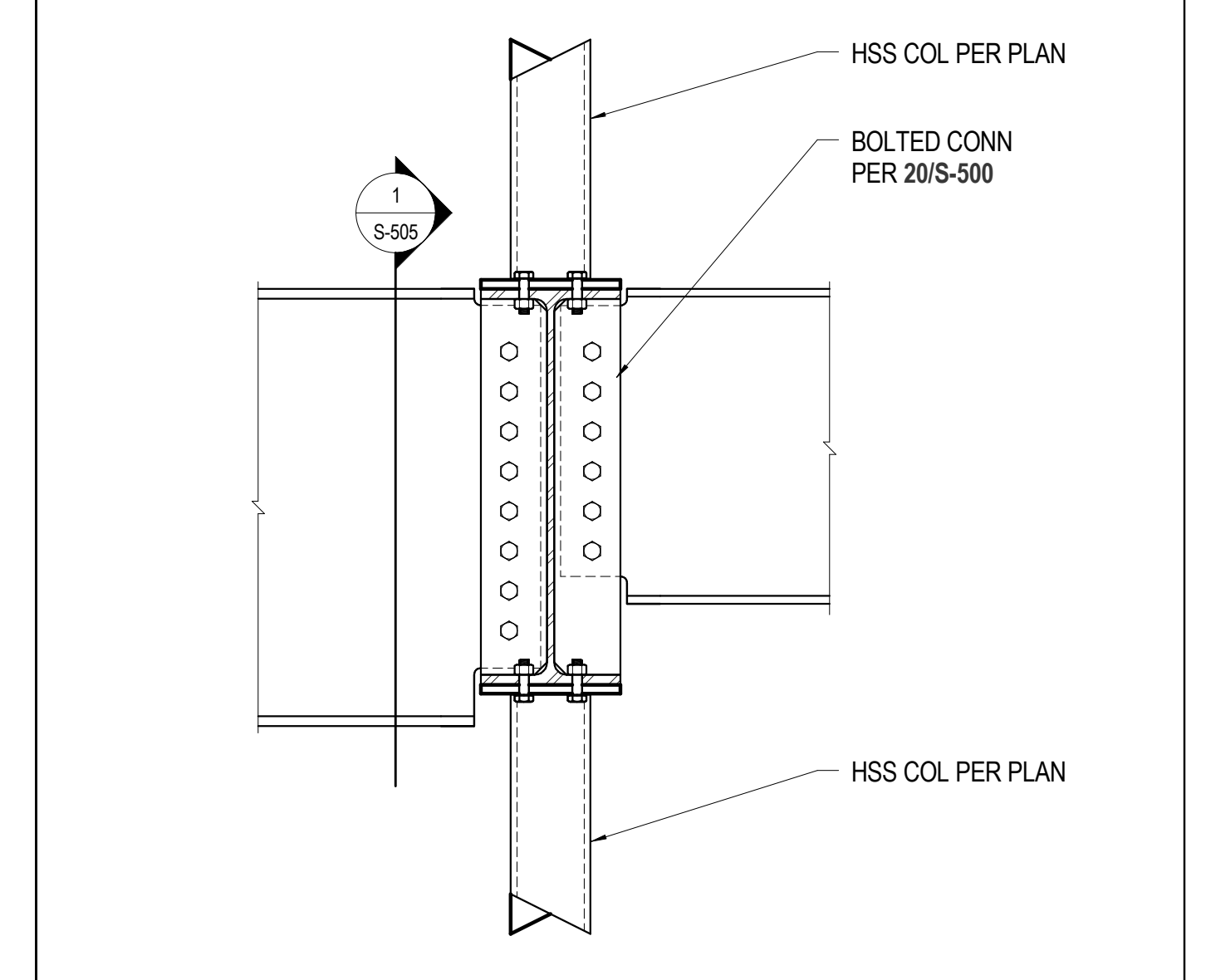
11 3/4" = 1'-0" SECTION AT ENTRY



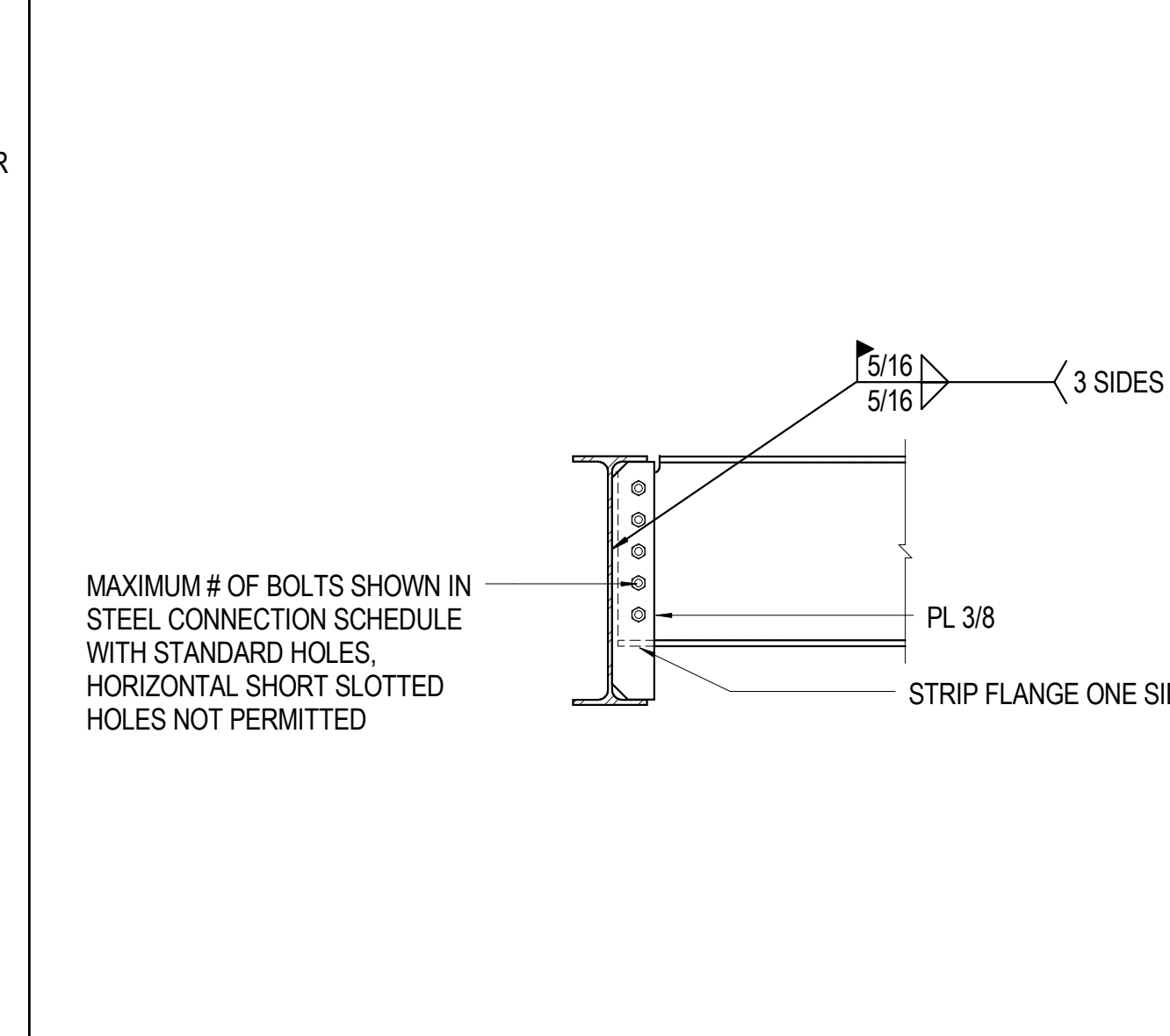
15 3/4" = 1'-0" WALL AT LOW ROOF GRID 4



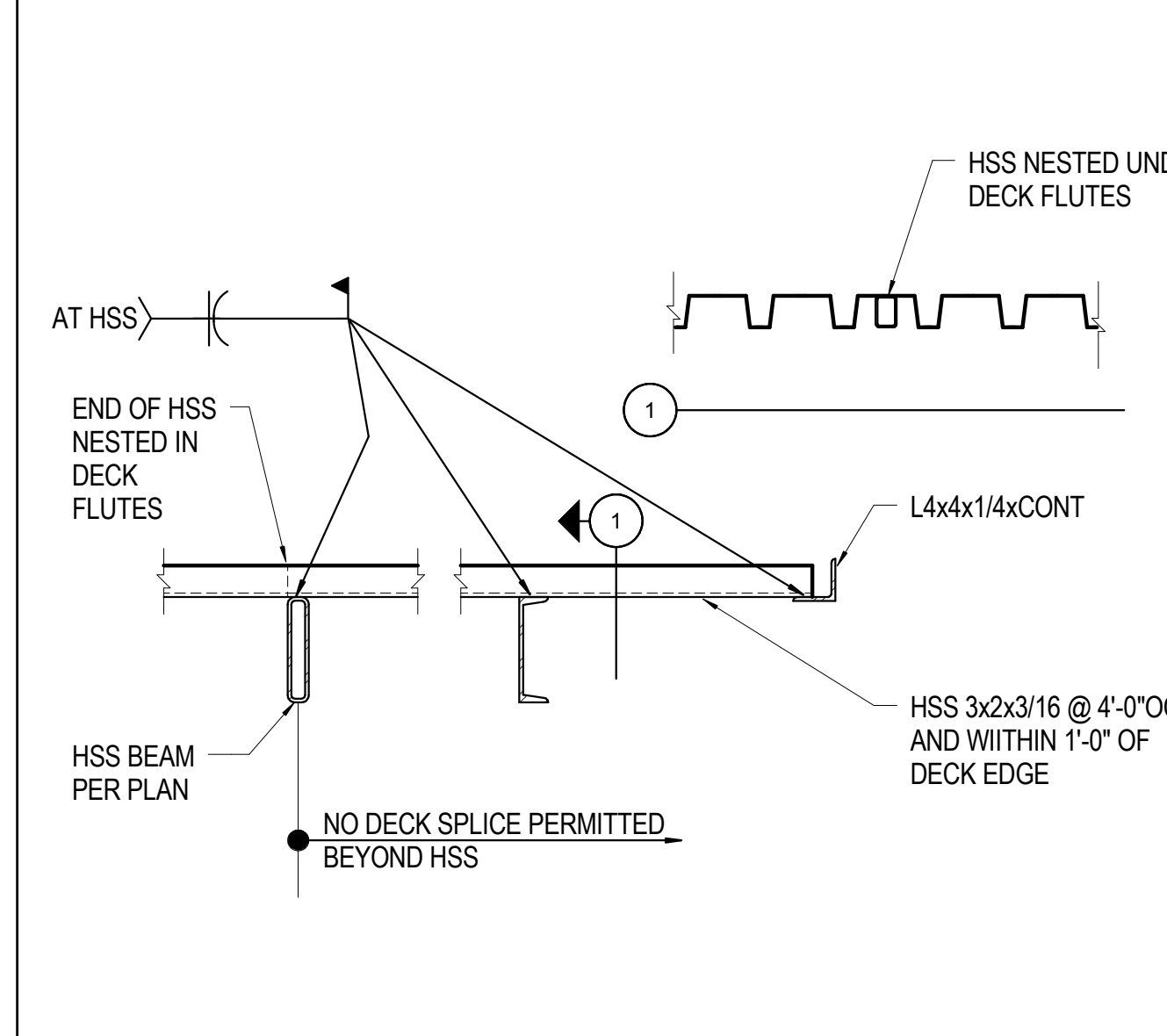
19 3/4" = 1'-0" OPENING AT MECHANICAL



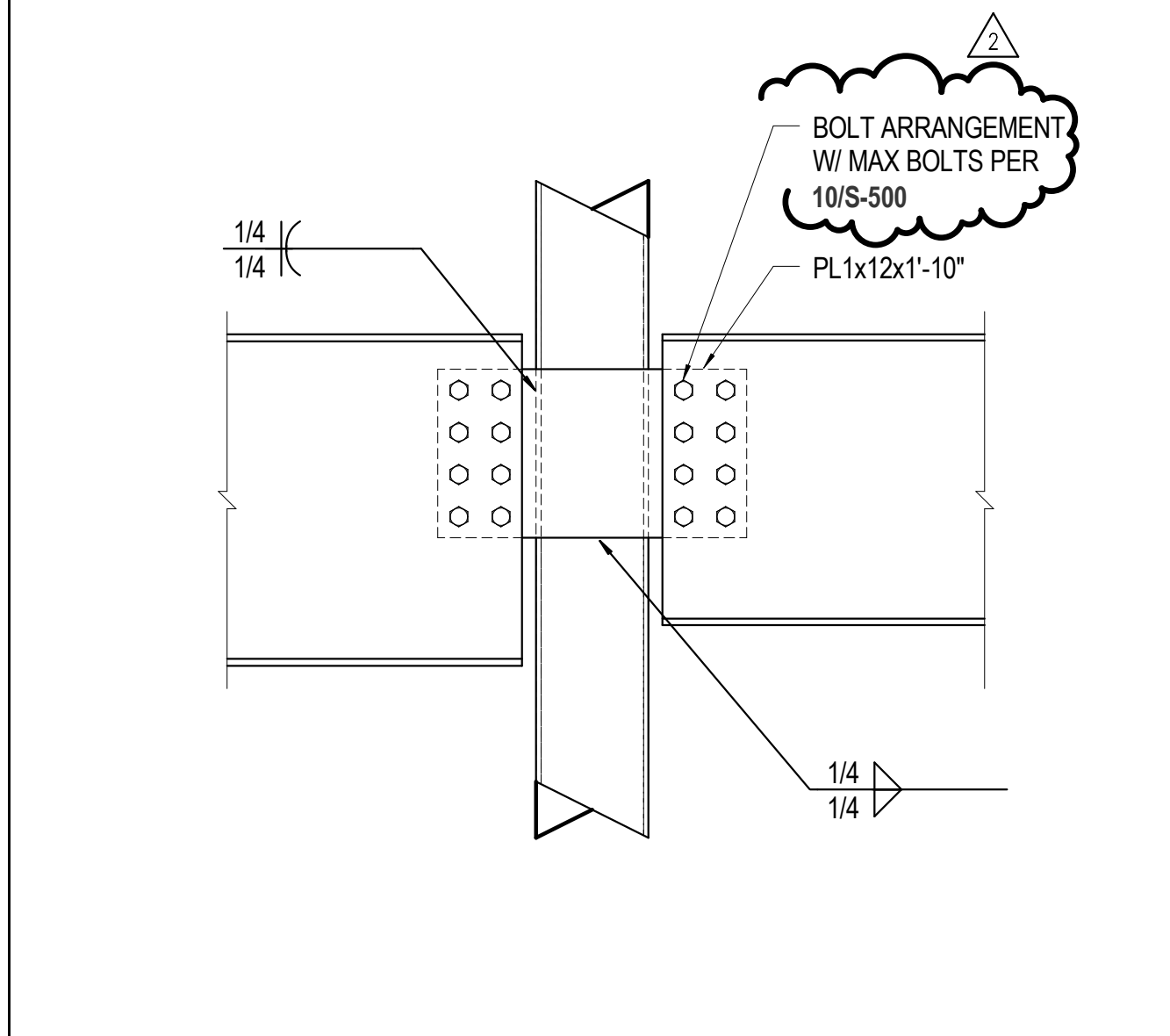
4 1" = 1'-0" WF TO FULL AT STIFFENER PL



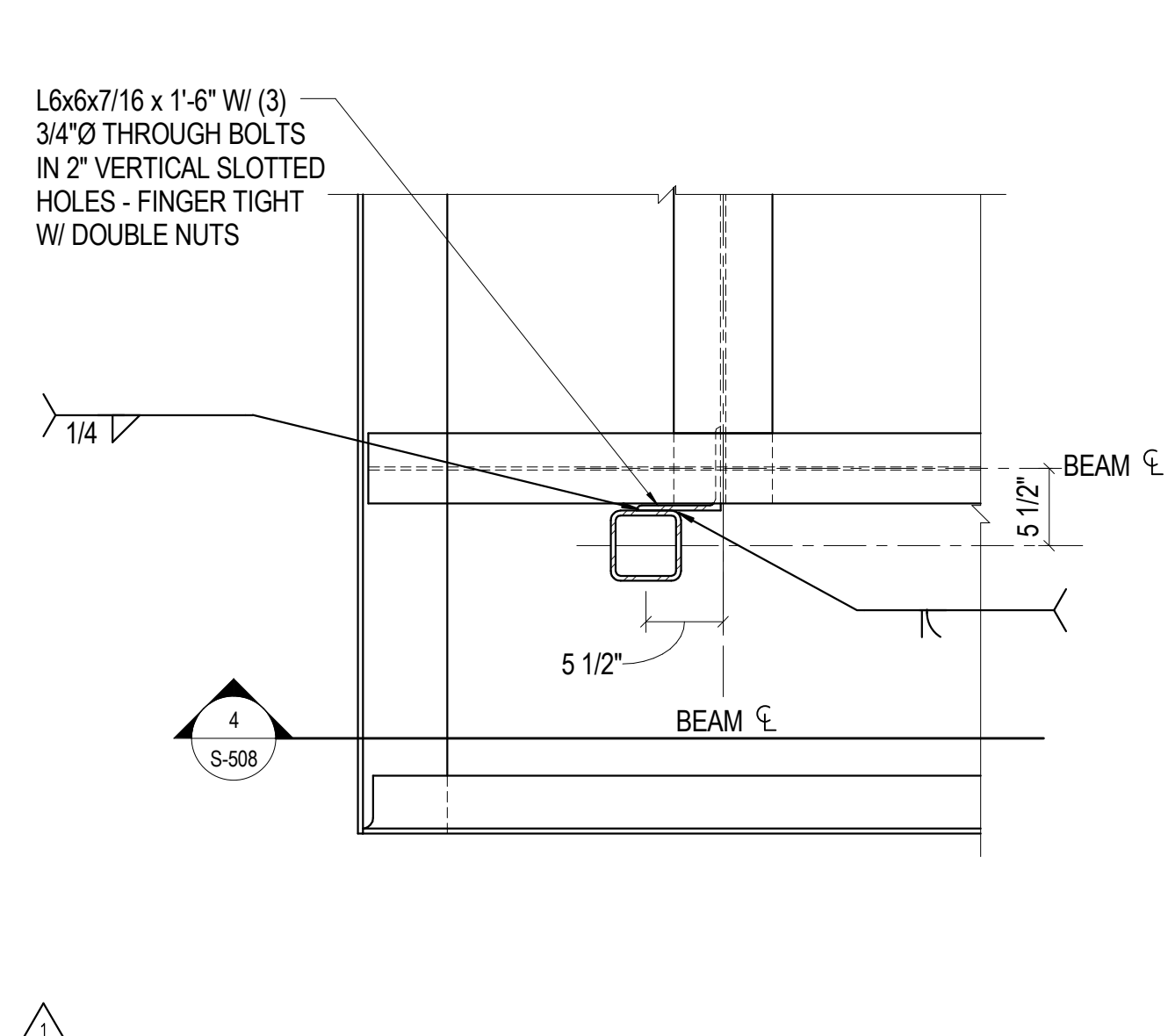
8 NO SCALE TYPICAL FULL HEIGHT SHEAR CONNECTION



12 3/4" = 1'-0" SECTION AT CANOPY FRONT EDGE

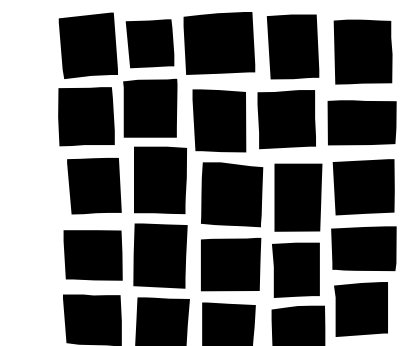


16 1" = 1'-0" WF BM CONN TO HSS COL



20 1" = 1'-0" SLIP CONN AT CORNER COL

DESIGNERS: LP, CS
DATE: 09/20/15 09:28:26 AM
DRAWN BY: TL
FILE PATH: C:\Proj\15_0256_RRCC Rec Center_R15_GainS.dwg
PROJECT MANAGER: LP
15.0256.S.01
Nov 9, 2015



DAVIS PARTNERSHIP ARCHITECTS

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12800 WEST COLUMBIAN AVENUE, LAKEWOOD, COLORADO 80215
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Consultant

Issue/Revisions Date No.

Addendum #2	12-4-2015	1
Addendum #3	12-9-2015	2

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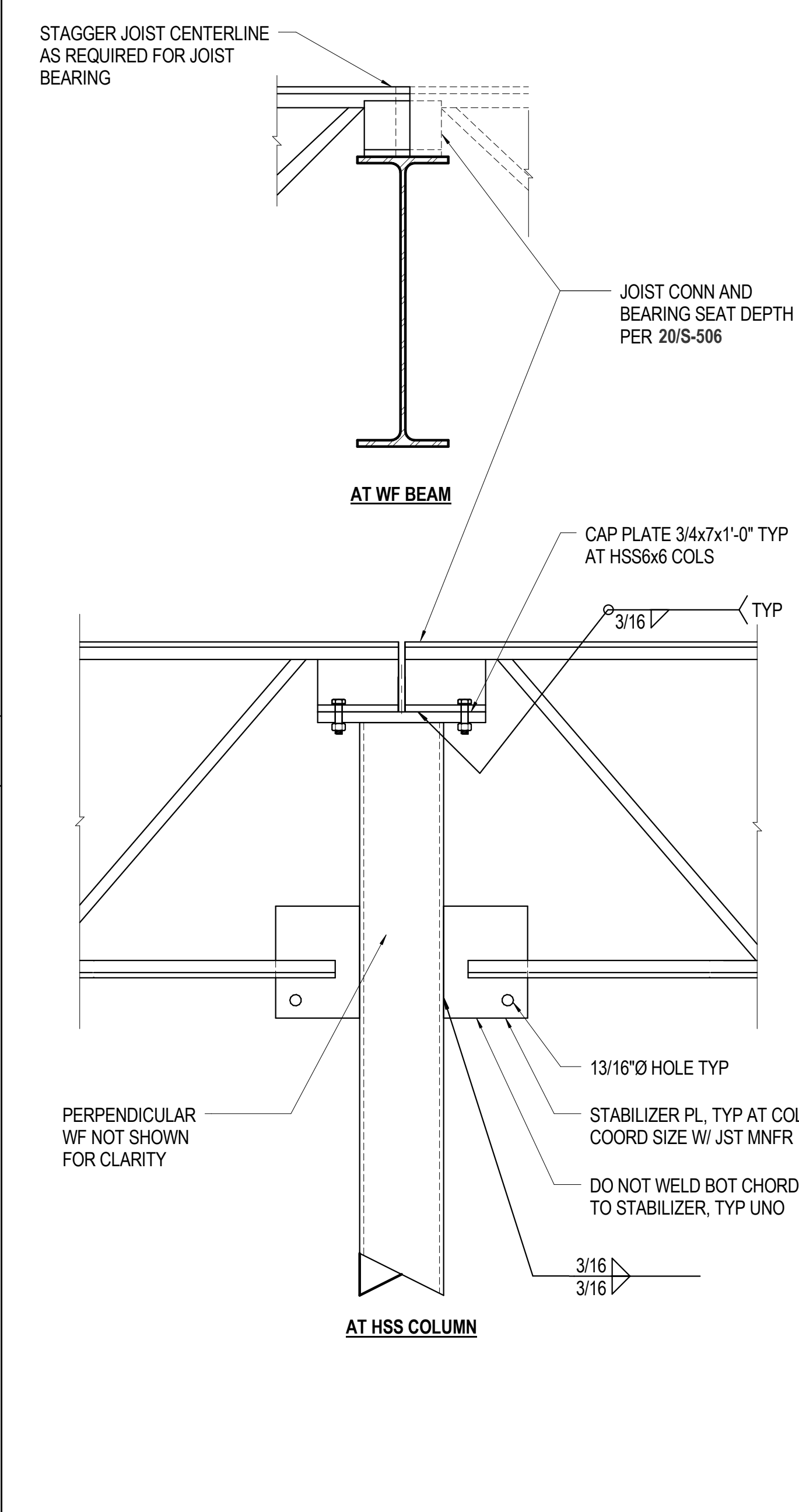
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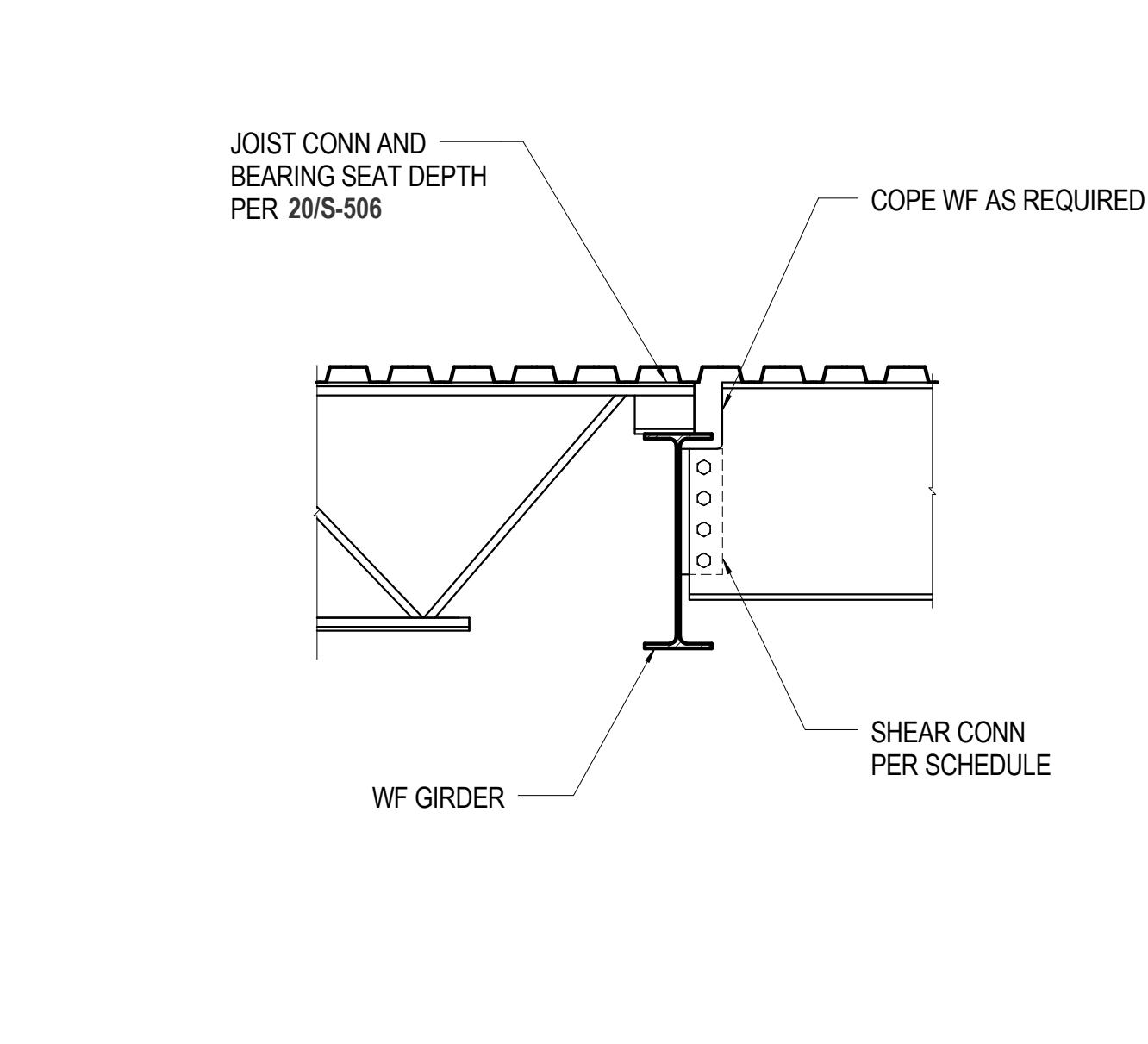
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Nov 9, 2015
Sheet Number:

S-506

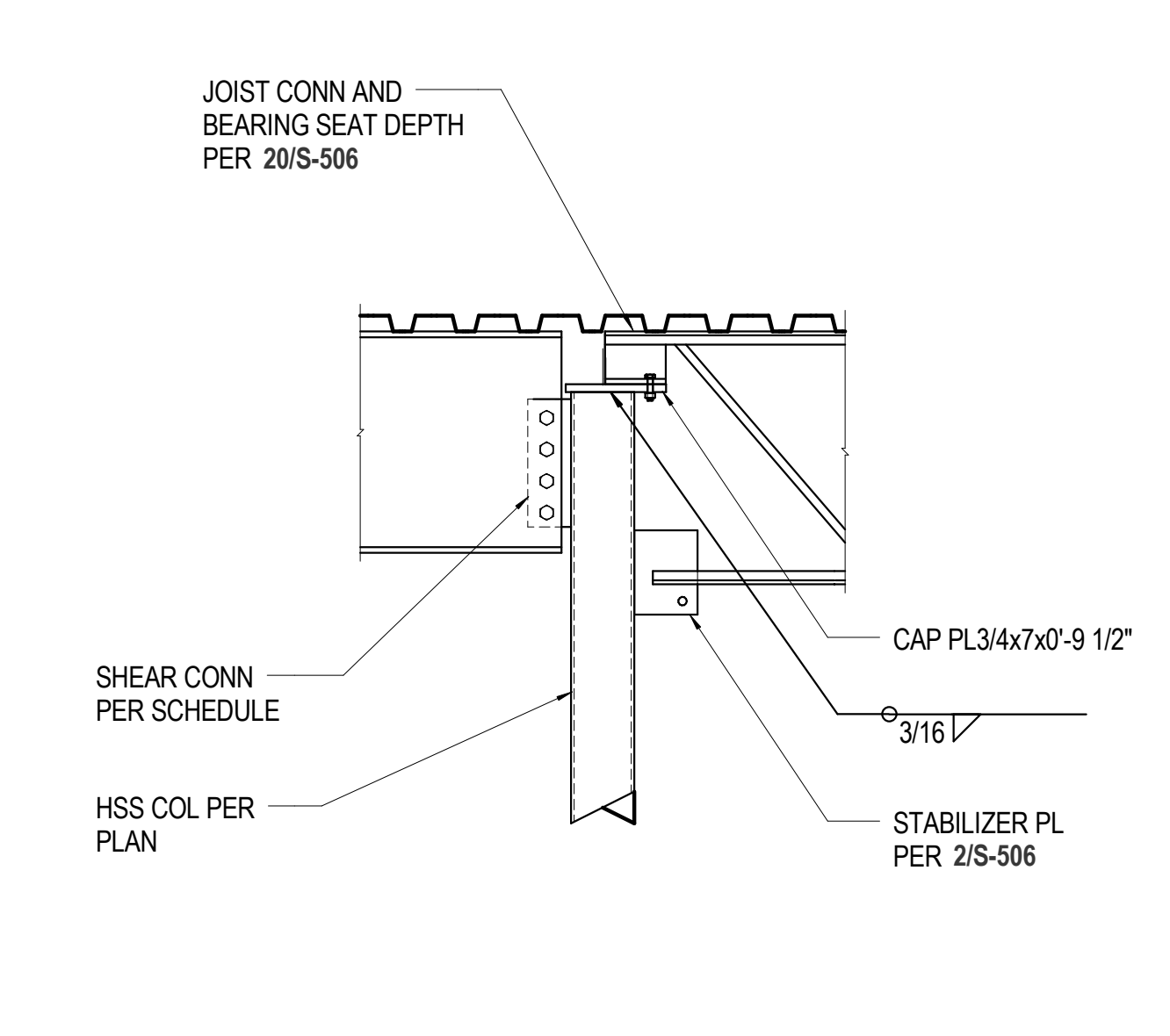
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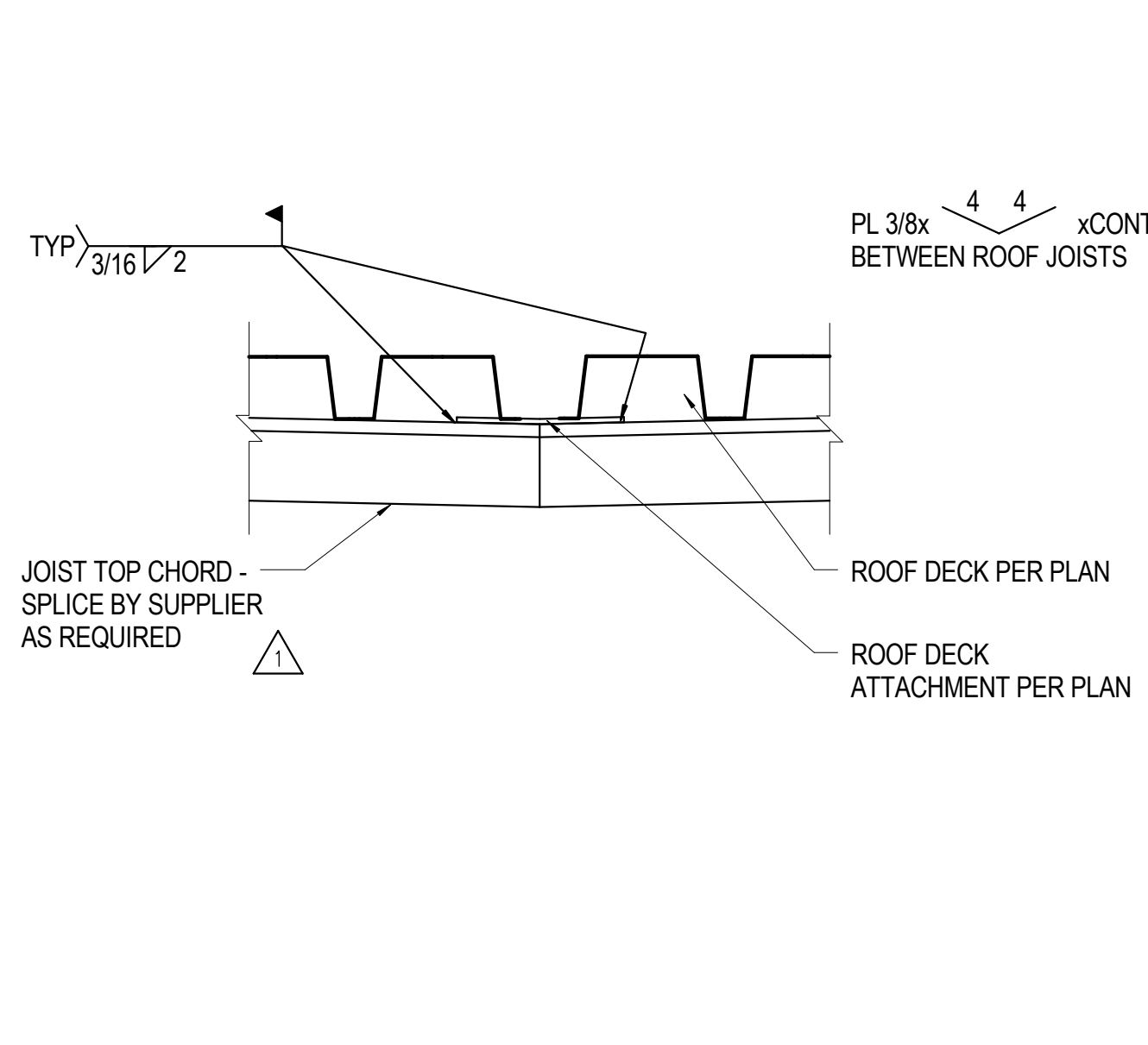
2 1 1/2" = 1'-0" TYP JOIST BEARING



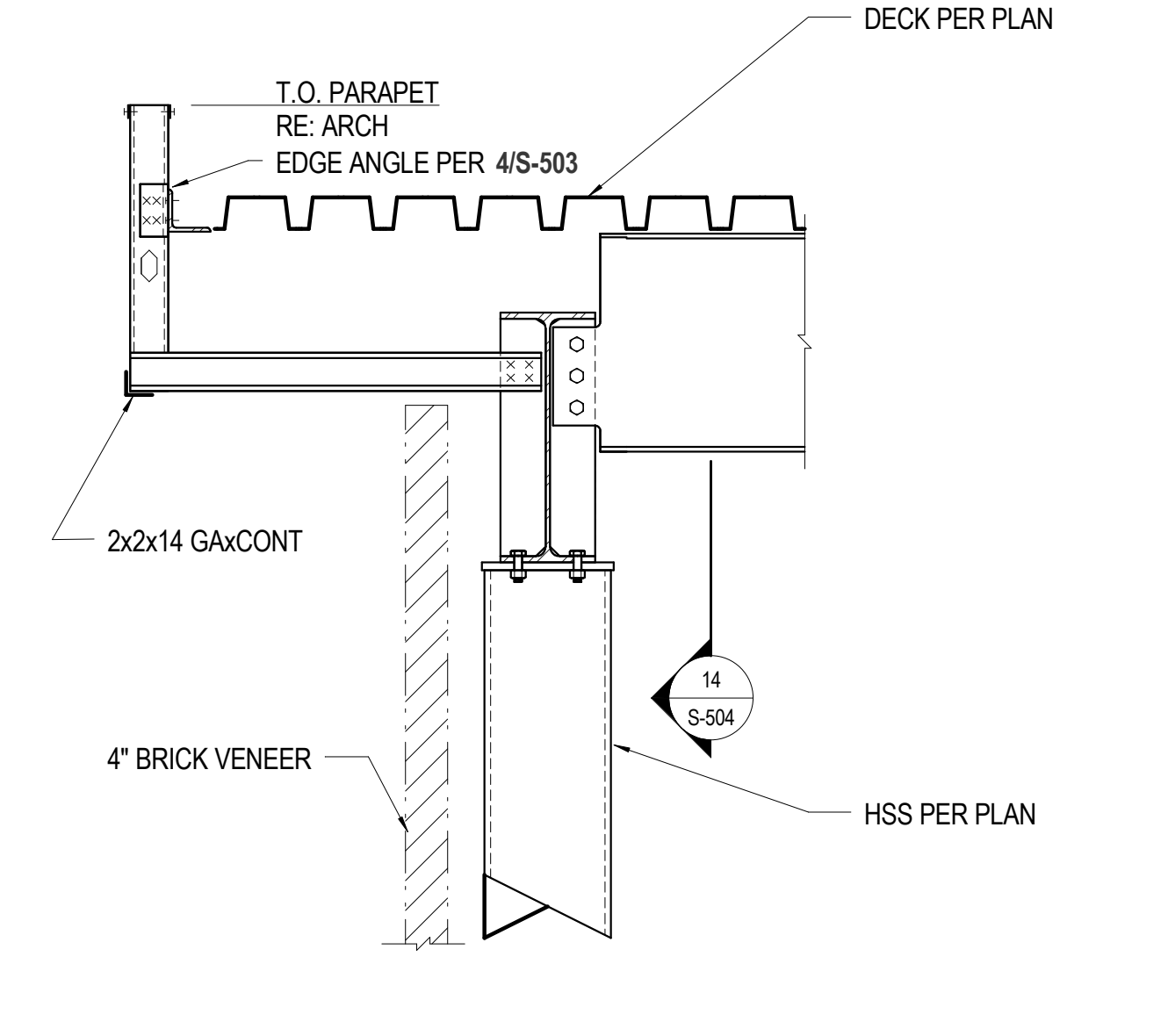
5 3/4" = 1'-0" JOIST BEARING AT COPED BEAM



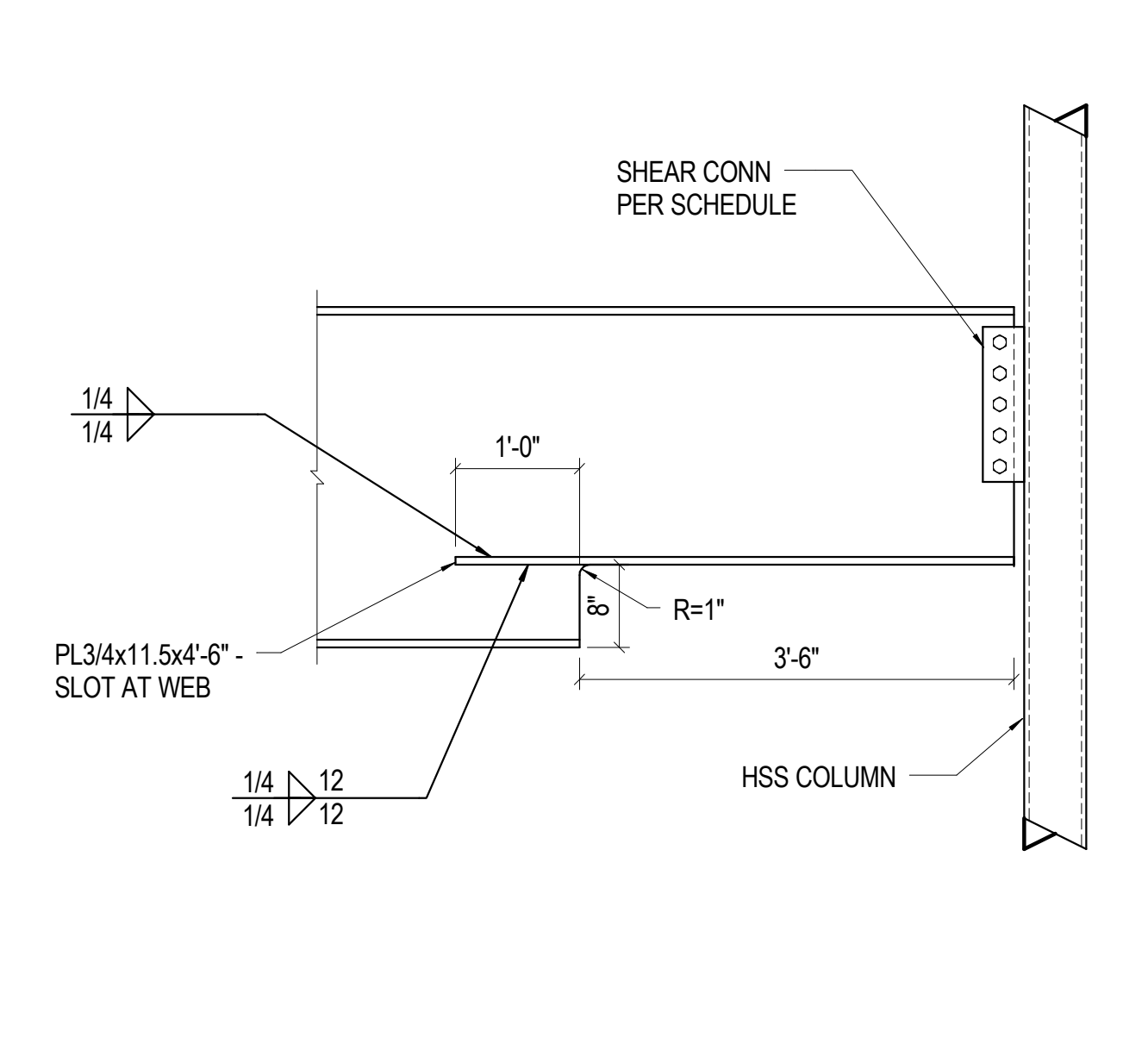
6 3/4" = 1'-0" JOIST/BEAM AT COL



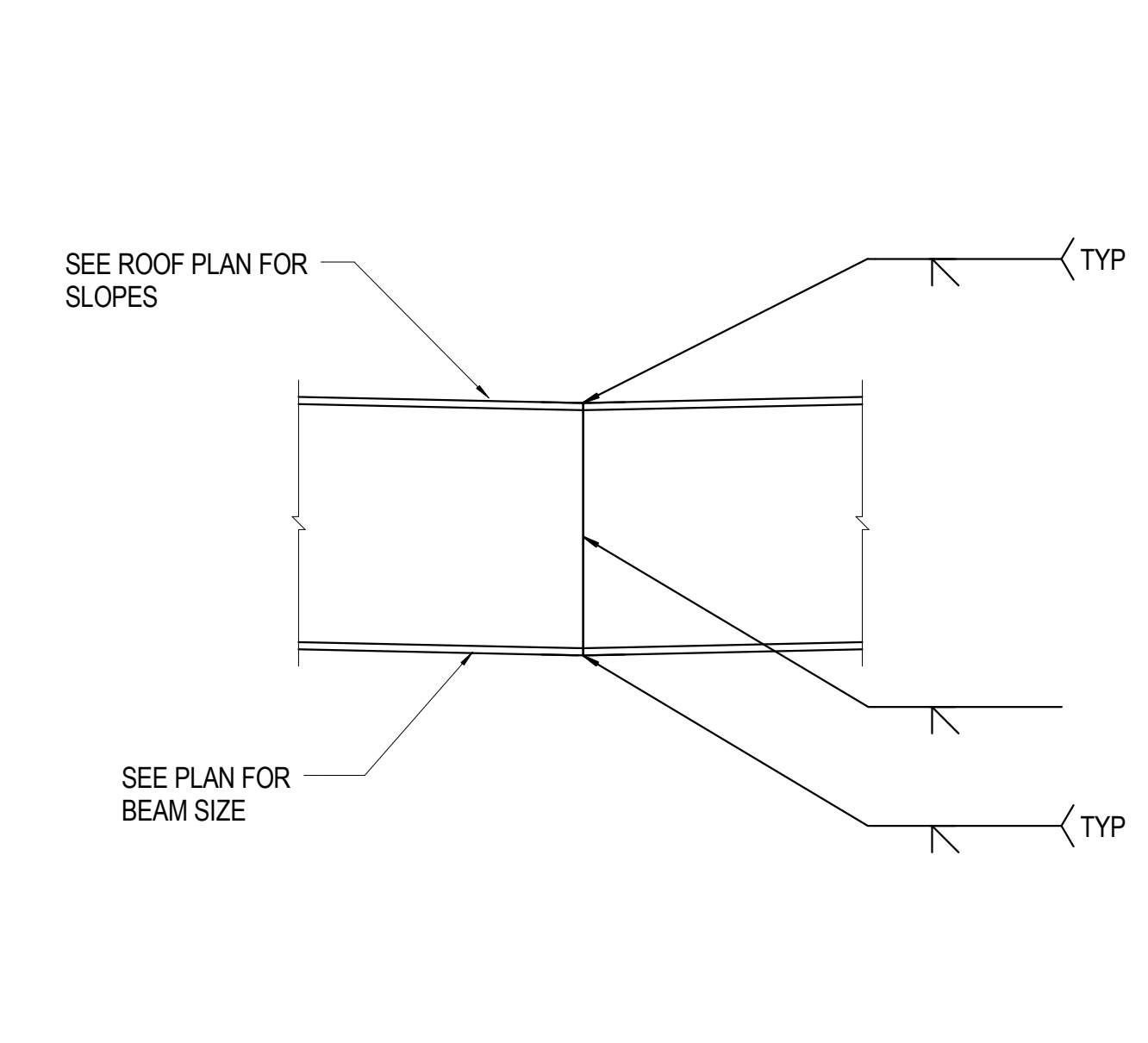
9 1 1/2" = 1'-0" ROOF DECK AT VALLEY



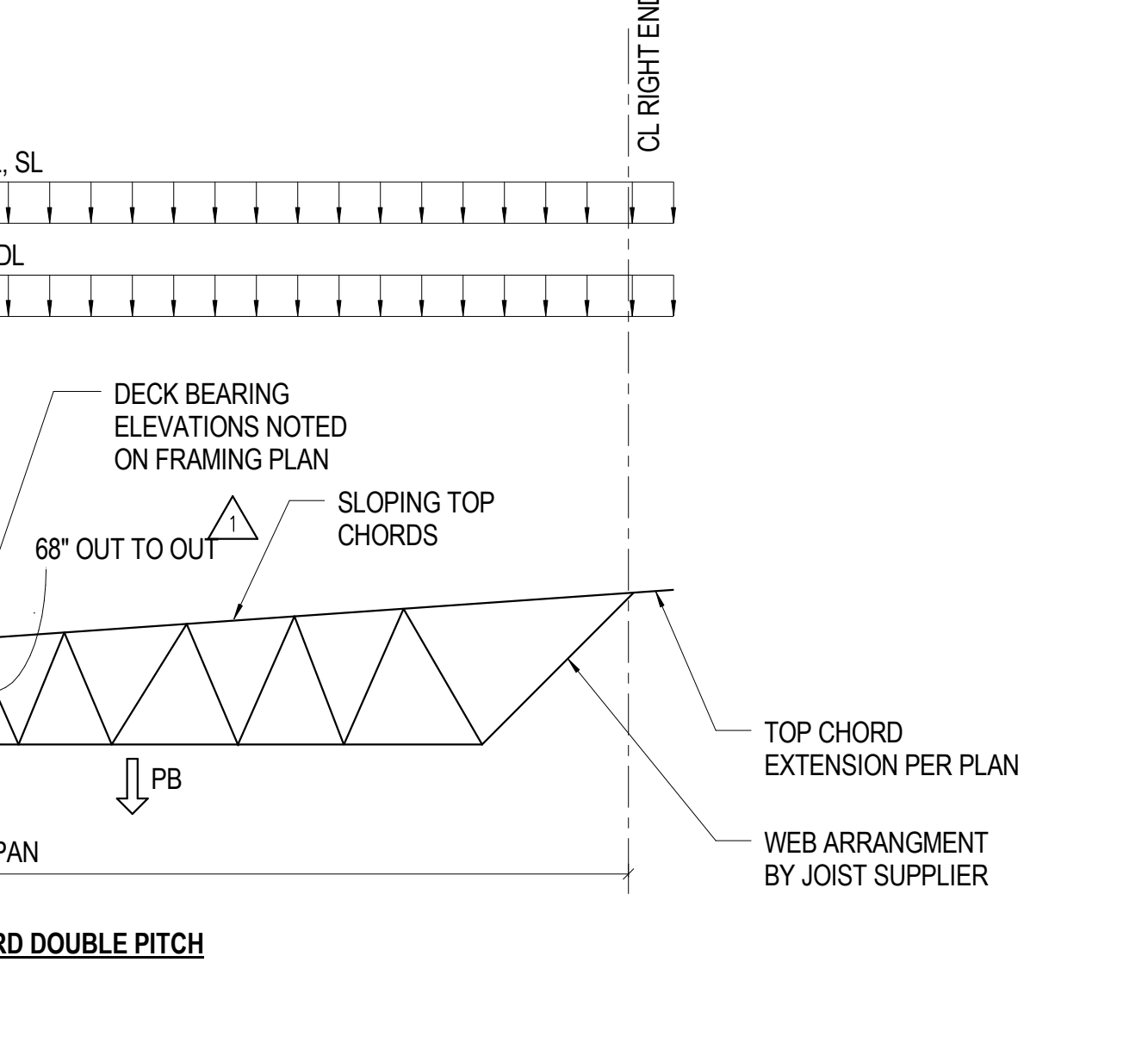
10 3/4" = 1'-0" WF OVER COL AT GYM



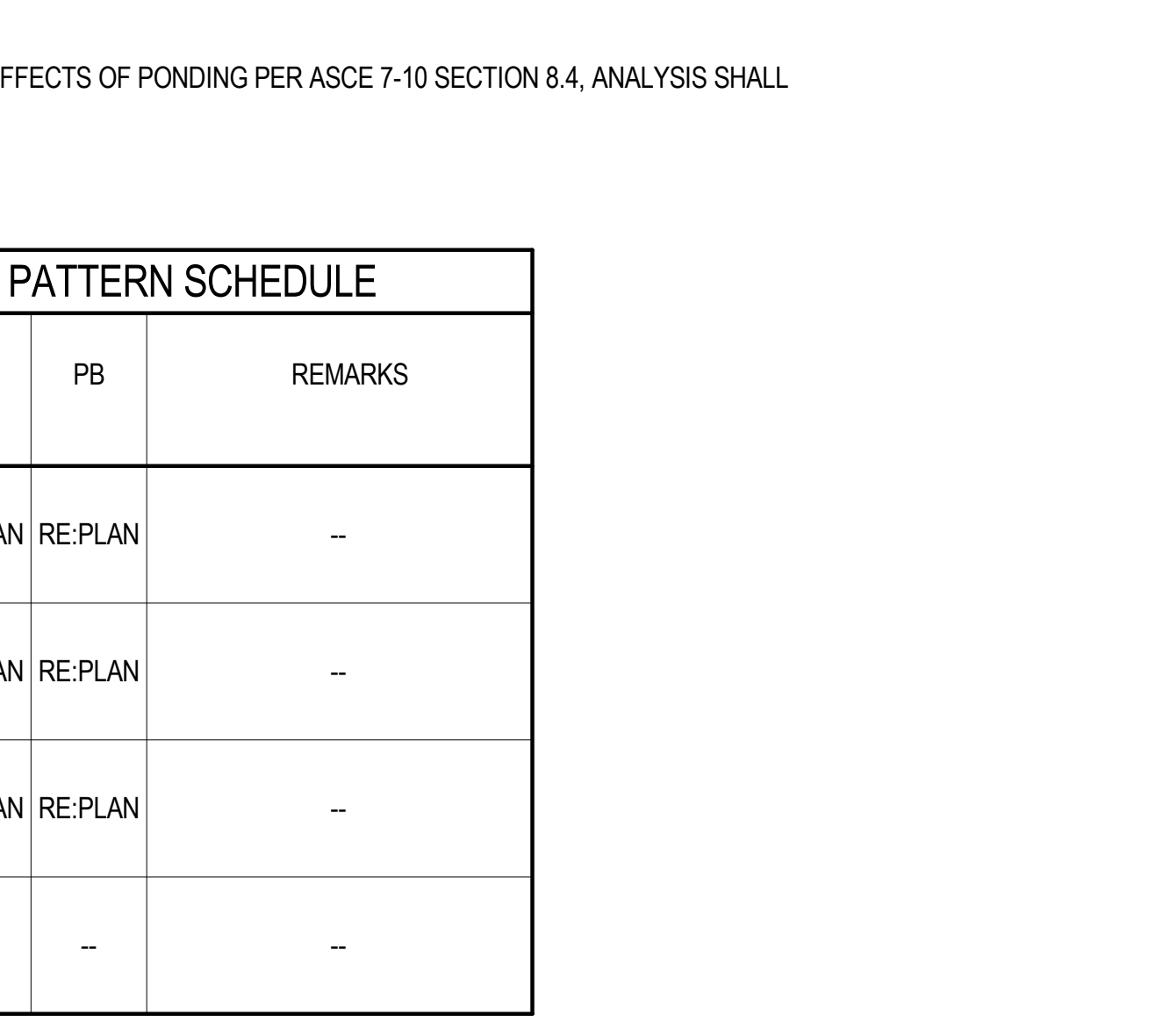
7 3/4" = 1'-0" NOTCHED BEAM



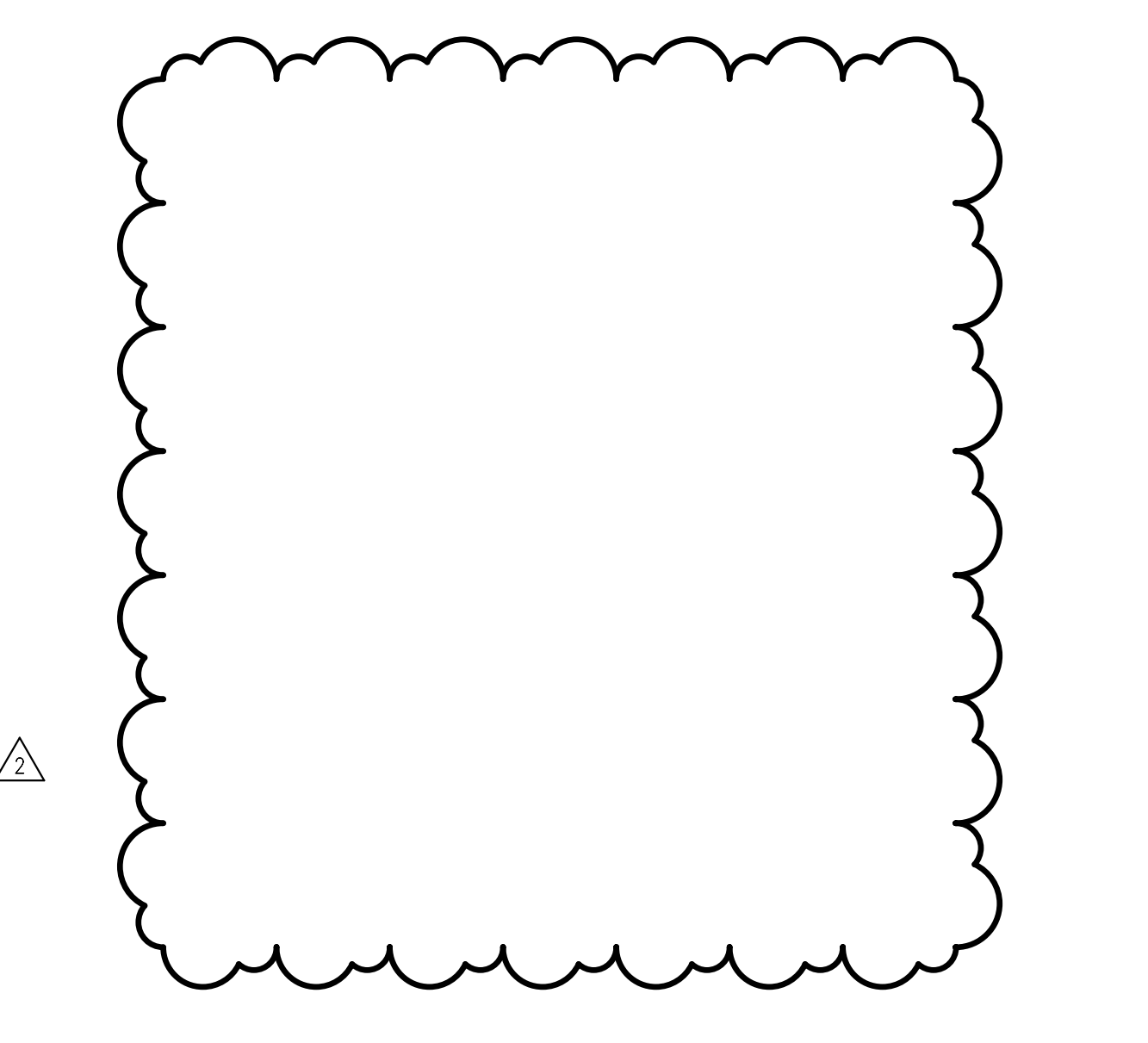
8 1 1/2" = 1'-0" KINKED BEAM



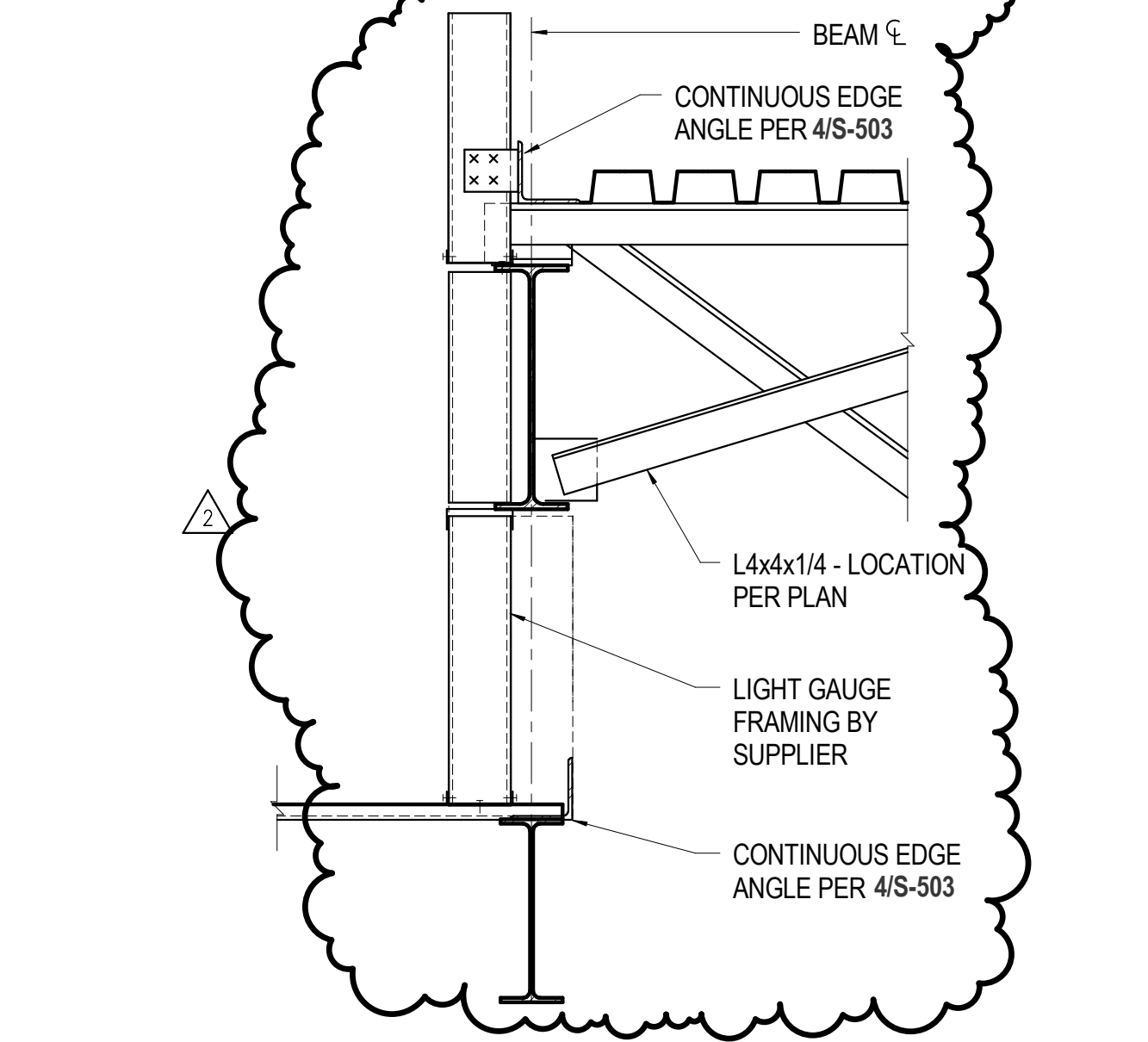
11 3/4" = 1'-0" JOIST CONN TO GIRDER



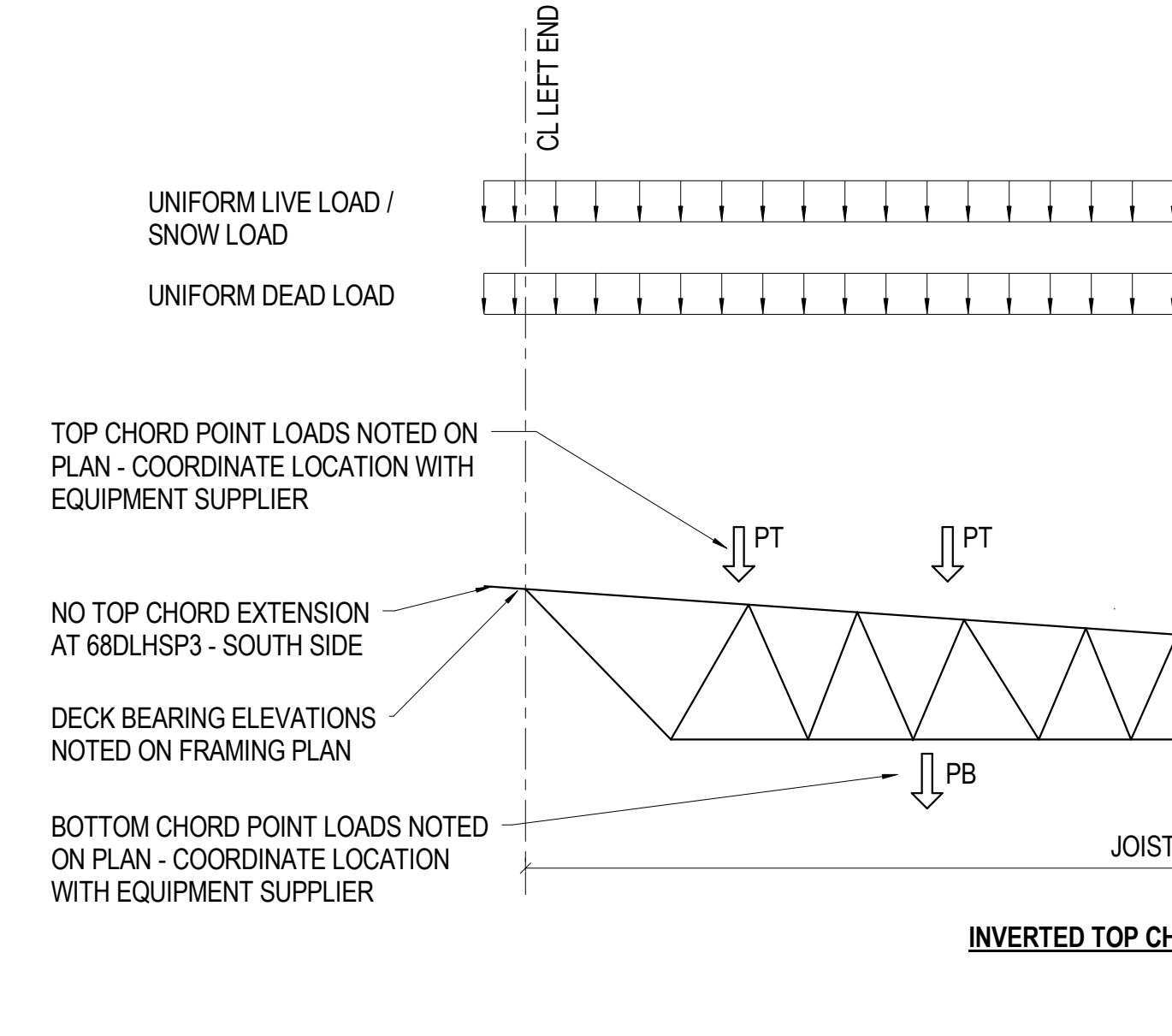
12 3/4" = 1'-0" WF BEAM AT GYM



16 3/4" = 1'-0" CFS CONN BETWEEN LOW AND HIGH ROOF



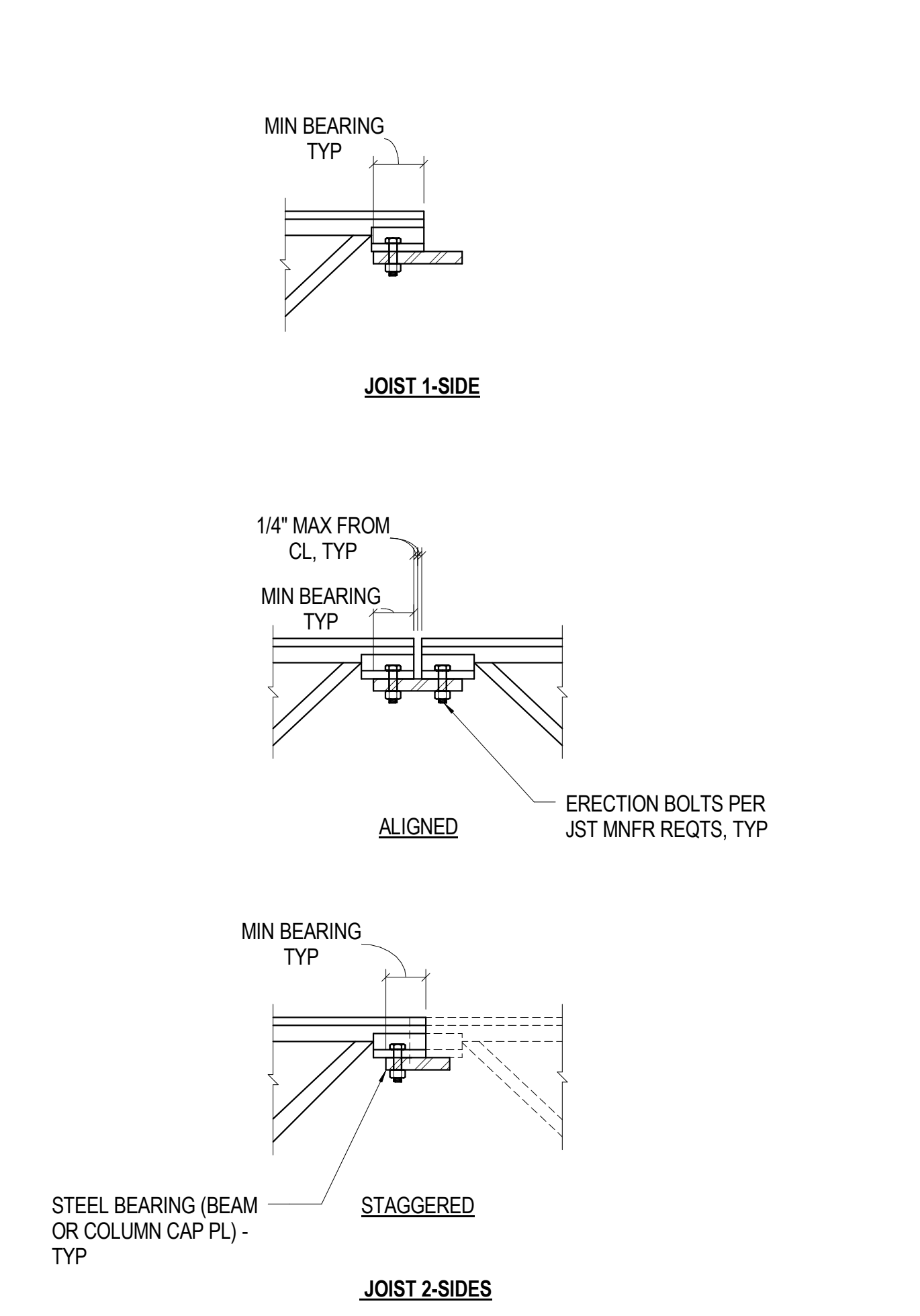
12 3/4" = 1'-0" WF BEAM AT GYM



18 1/4" = 1'-0" SPECIAL JOIST LOADS

- NOTES:**
- APPROXIMATE LOCATION OF EQUIPMENT NOTED ON PLAN. CONTRACTOR SHALL VERIFY WEIGHT AND LOCATION WITH EQUIPMENT FURNISHED. INCLUDE THIS INFORMATION IN SHOP DRAWING SUBMITTAL.
 - DISTRIBUTED LOADS ARE IN LB/FT² AND SHALL BE MULTIPLIED BY JOIST SPACING FOR JOIST DESIGN.
 - JOIST MANUFACTURER SHALL DESIGN TO LOAD COMBINATION PER APPLICABLE BUILDING CODE.
 - DISTRIBUTED LOADS ARE ON JOIST TOP CHORD, UNO.
 - ALL LOADS SPECIFIED ARE SERVICE LEVEL.
 - DESIGN INVERTED TOP CHORD DOUBLE PITCH JOISTS FOR THE EFFECTS OF PONDING PER ASCE 7-10 SECTION 8.4. ANALYSIS SHALL INCLUDE THE SECOND ORDER EFFECTS OF JOIST DEFLECTION.

SPECIAL JOIST LOADING PATTERN SCHEDULE						
PLAN MARK	DL (PSF)	LL (PSF)	SL (PSF)	PT	PB	REMARKS
68DLHSP1	25	20	30	RE-PLAN	RE-PLAN	--
68DLHSP2	25	20	30	RE-PLAN	RE-PLAN	--
68DLHSP3	25	20	30	RE-PLAN	RE-PLAN	--
--	--	--	--	--	--	--

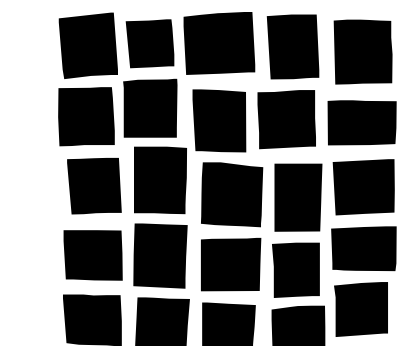


TYP JOIST BEARING AND WELD SCHEDULE					
JOIST SERIES	SEAT DEPTH	MIN BEARING	TYP WELD		COMMENT
			d	l	
LH	5"	4"	3/16	2"	--
LH	6"	4"	3/16	2"	AT TOP CHORD EXTENSION
DLH	7.5"	4"	3/16	2"	--

NOTE: STEEL FABRICATOR TO VERIFY BEARING SEAT DEPTH WITH JOIST SUPPLIER PRIOR TO DETAILING OR FABRICATION. ADJUST SUPPORT ELEVATIONS AS REQUIRED TO MAINTAIN DECK BEARING ELEVATION NOTED ON PLAN.

20 1 1/2" = 1'-0" TYP JOIST BEARING ON STEEL

DESIGNERS: LP, GS
DRAWN: AL, TL
CHECKED: CS
FILE PATH: C:\Proj\15_0256_RRC Rec Center_R15_Gain\1.dwg
PROJECT MANAGER: LP
15.0256.S.01
Nov 9, 2015 9:29 AM



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Consultant

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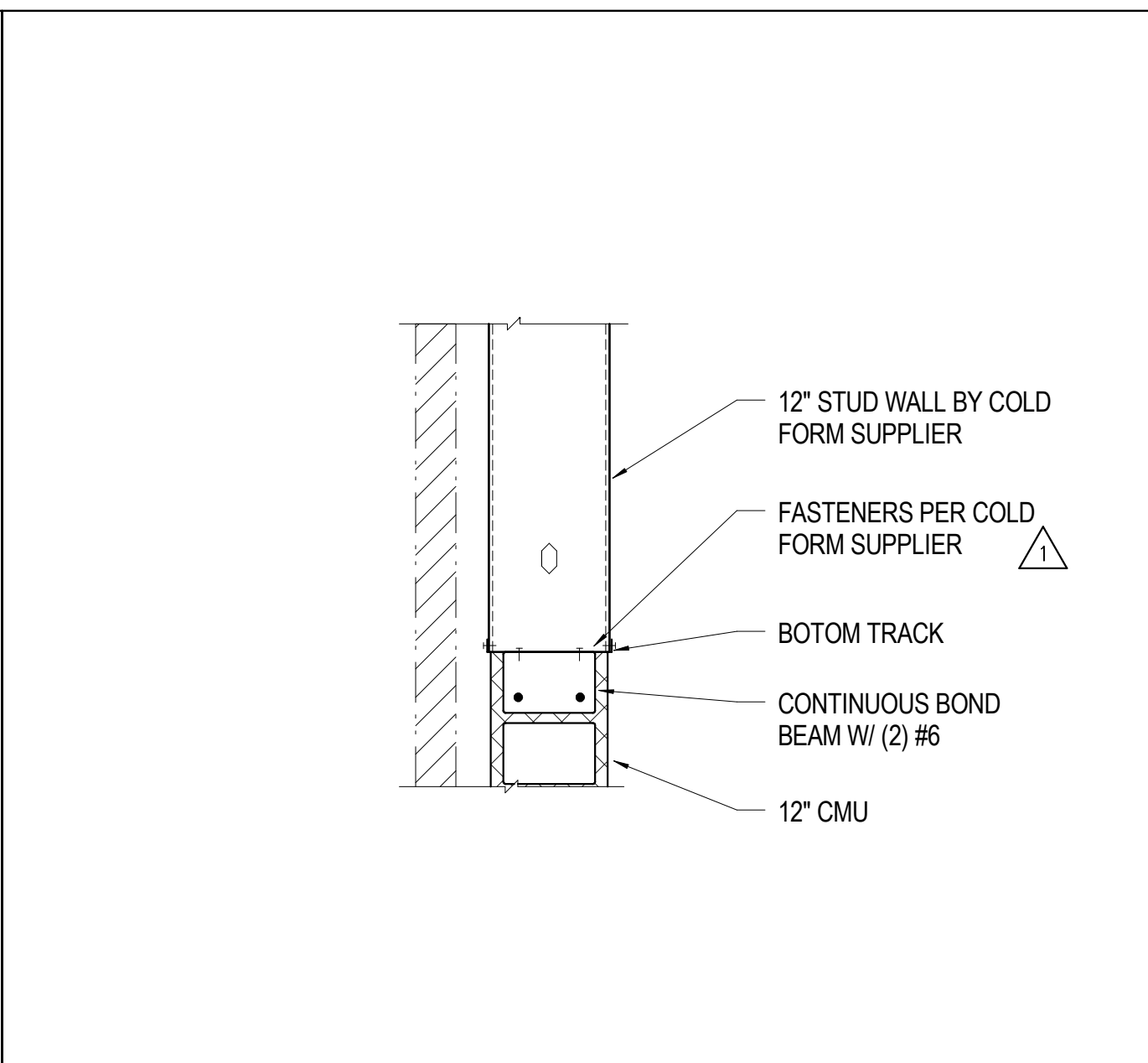
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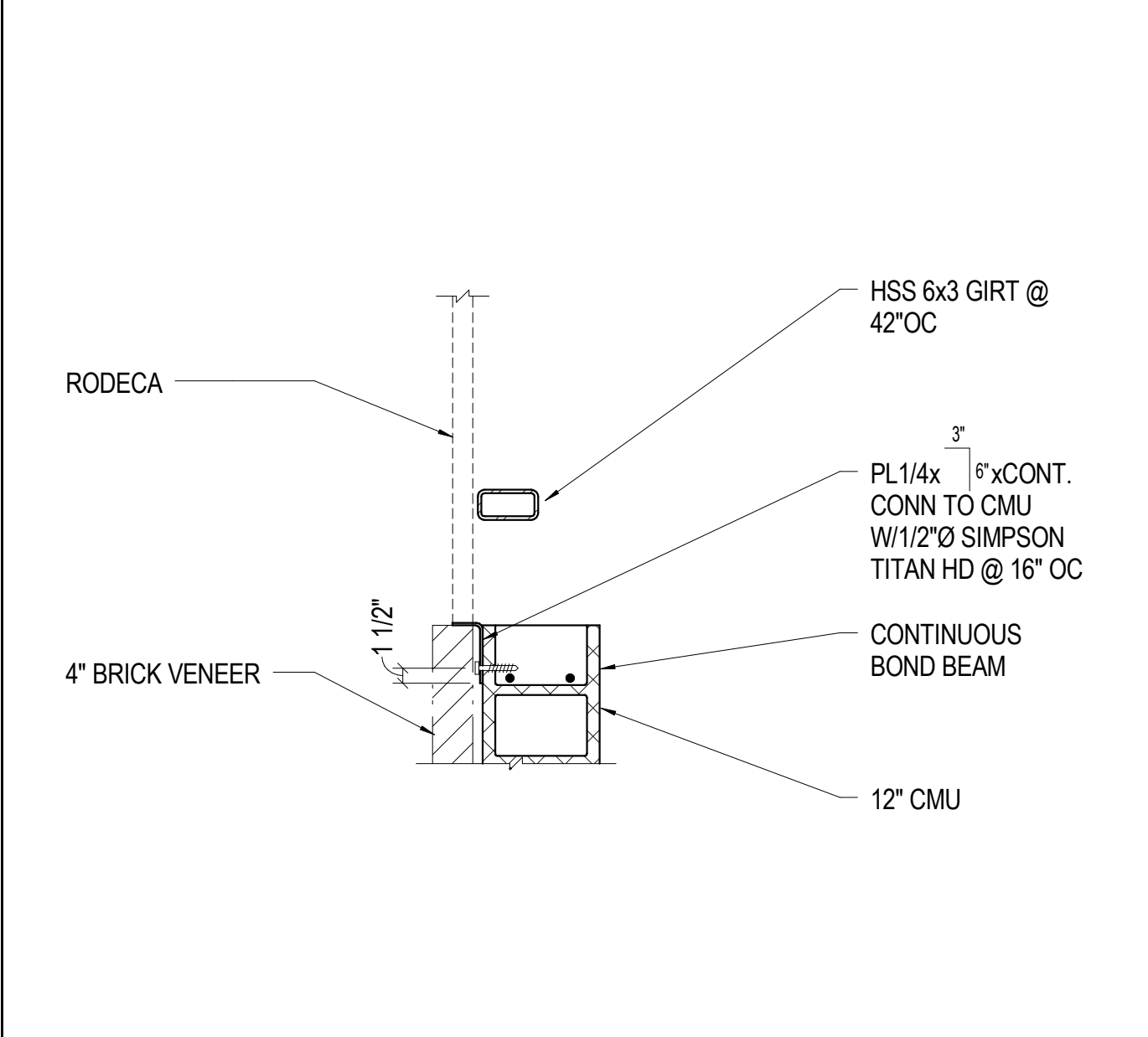
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CONSTRUCTION DOCUMENTS
Nov 9, 2015
Sheet Number:

S-507

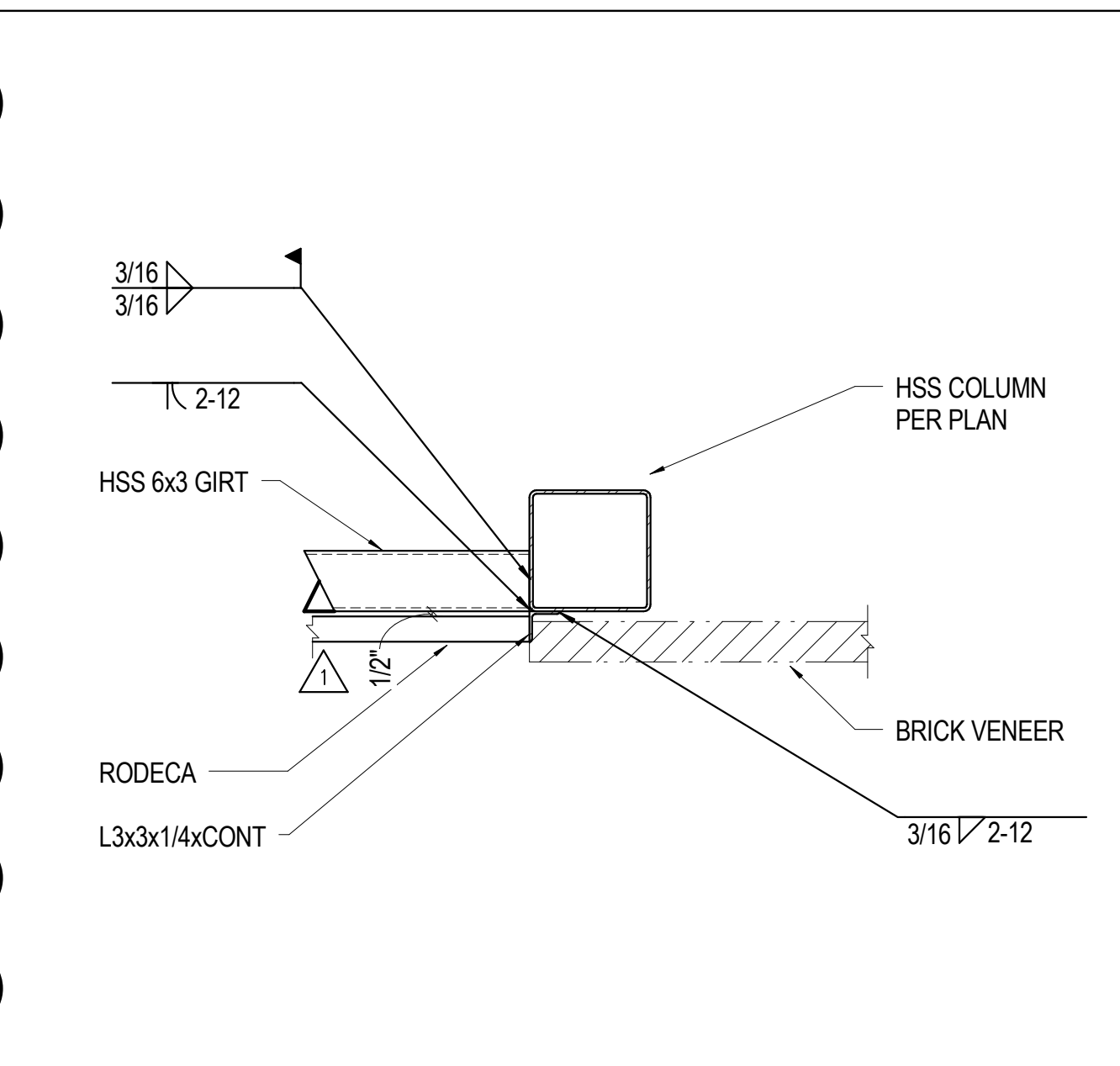
MM Project: 15.0256.S.01



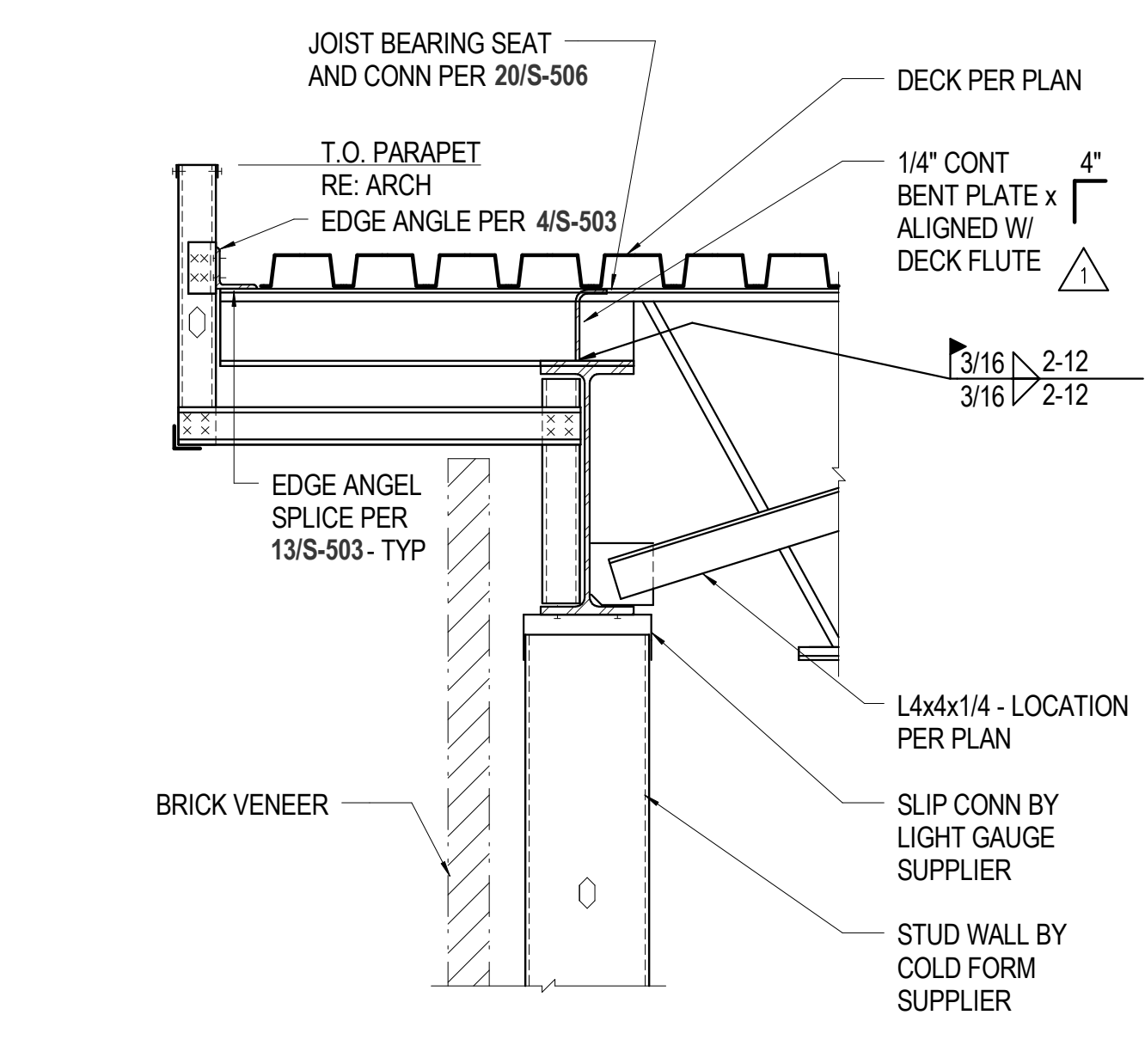
1 3/4" = 1'-0" CMU TO COLD FORMED FRAMING



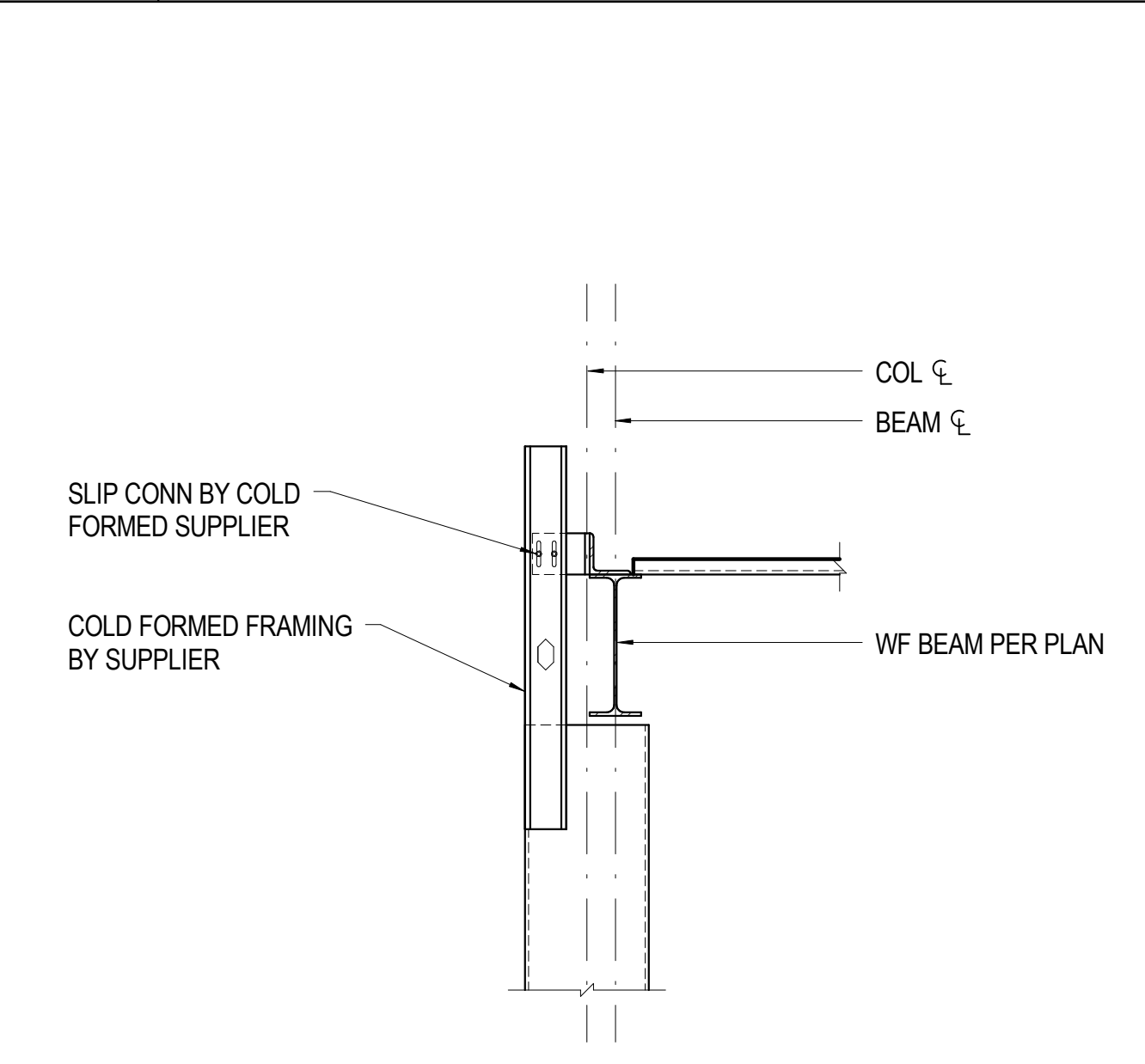
2 3/4" = 1'-0" RODECA AT CMU



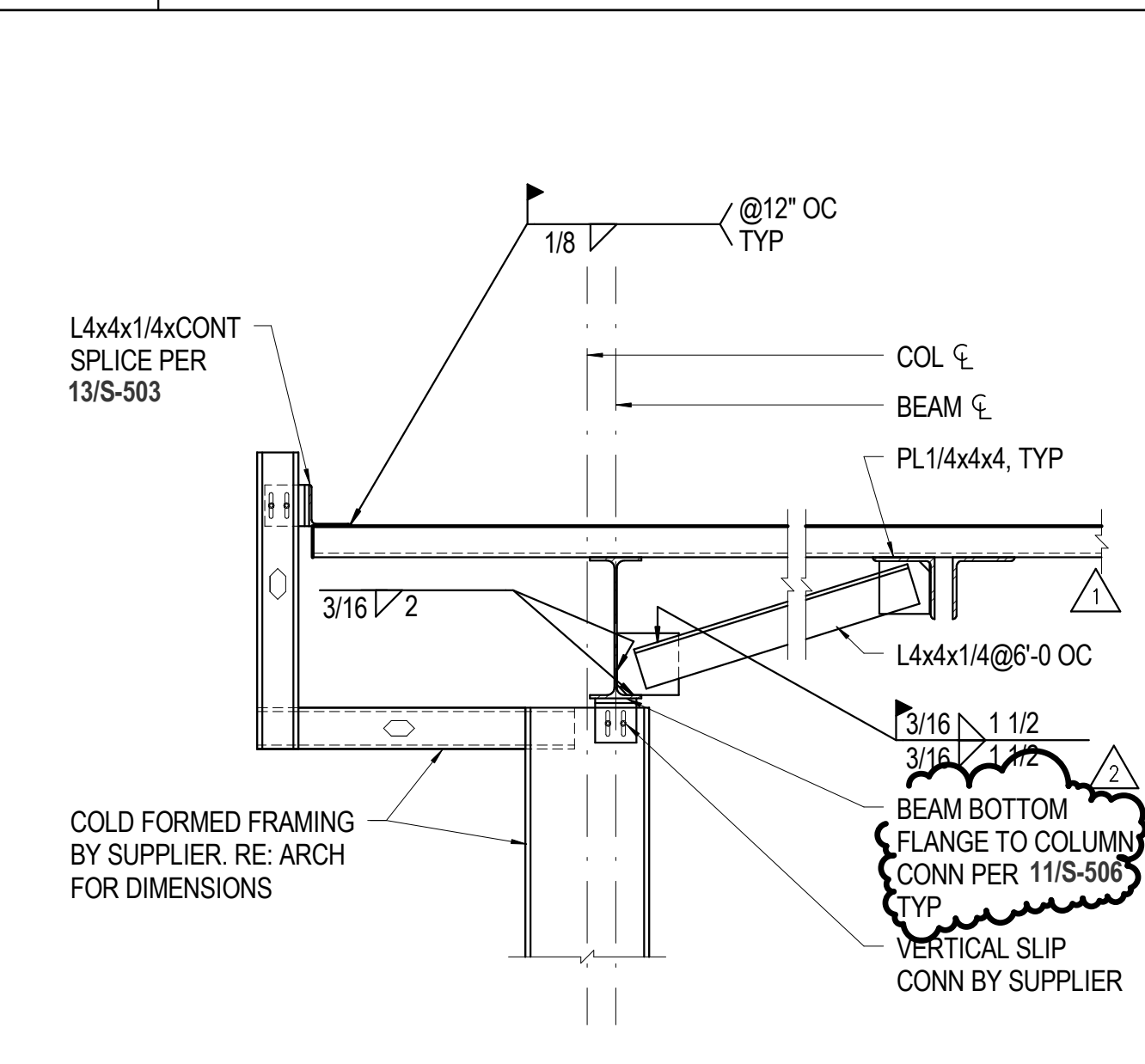
5 3/4" = 1'-0" RODECA GIRTS AT COLUMN



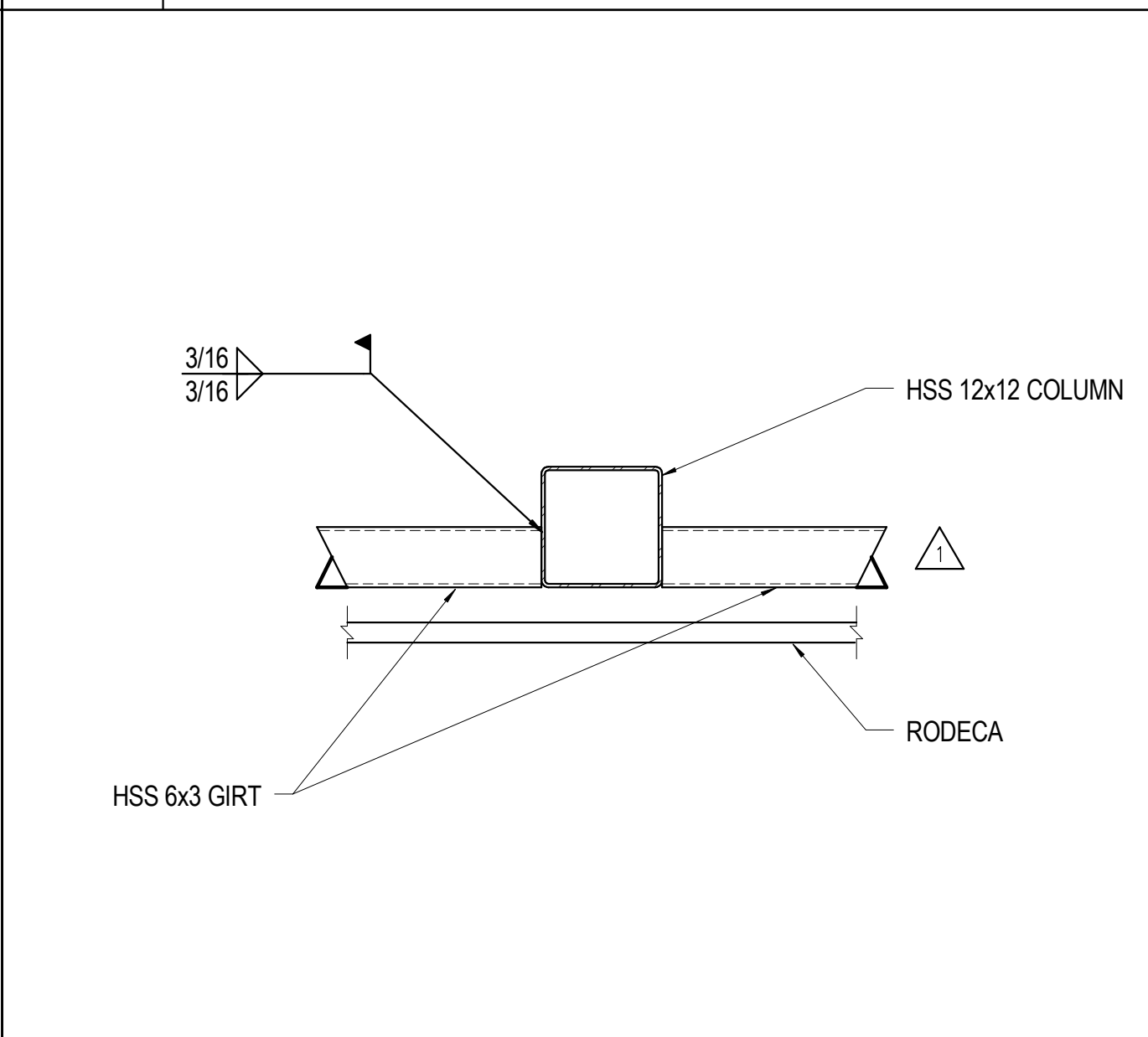
6 3/4" = 1'-0" GYM WALL AT PARAPET



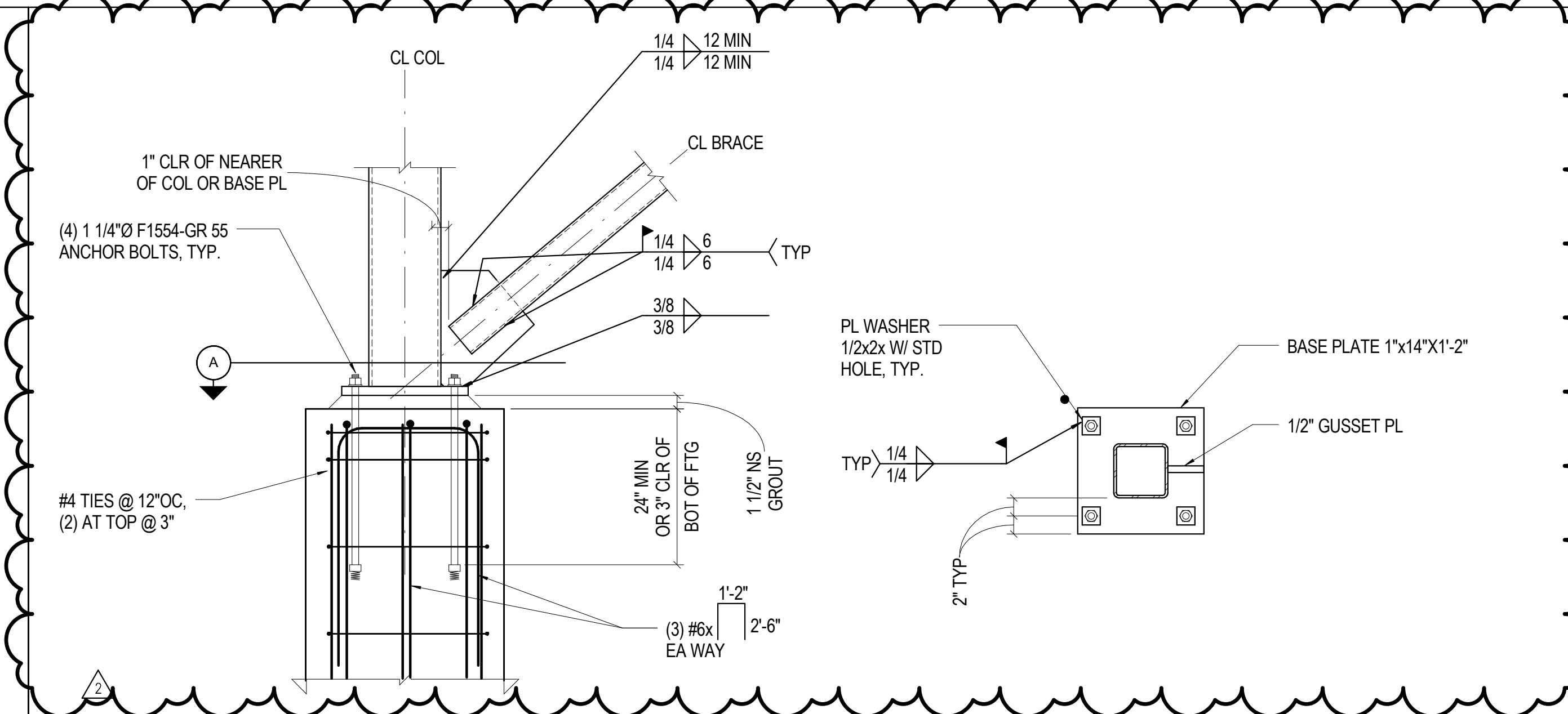
9 3/4" = 1'-0" SLIP CONNECTION AT WIND COLUMN



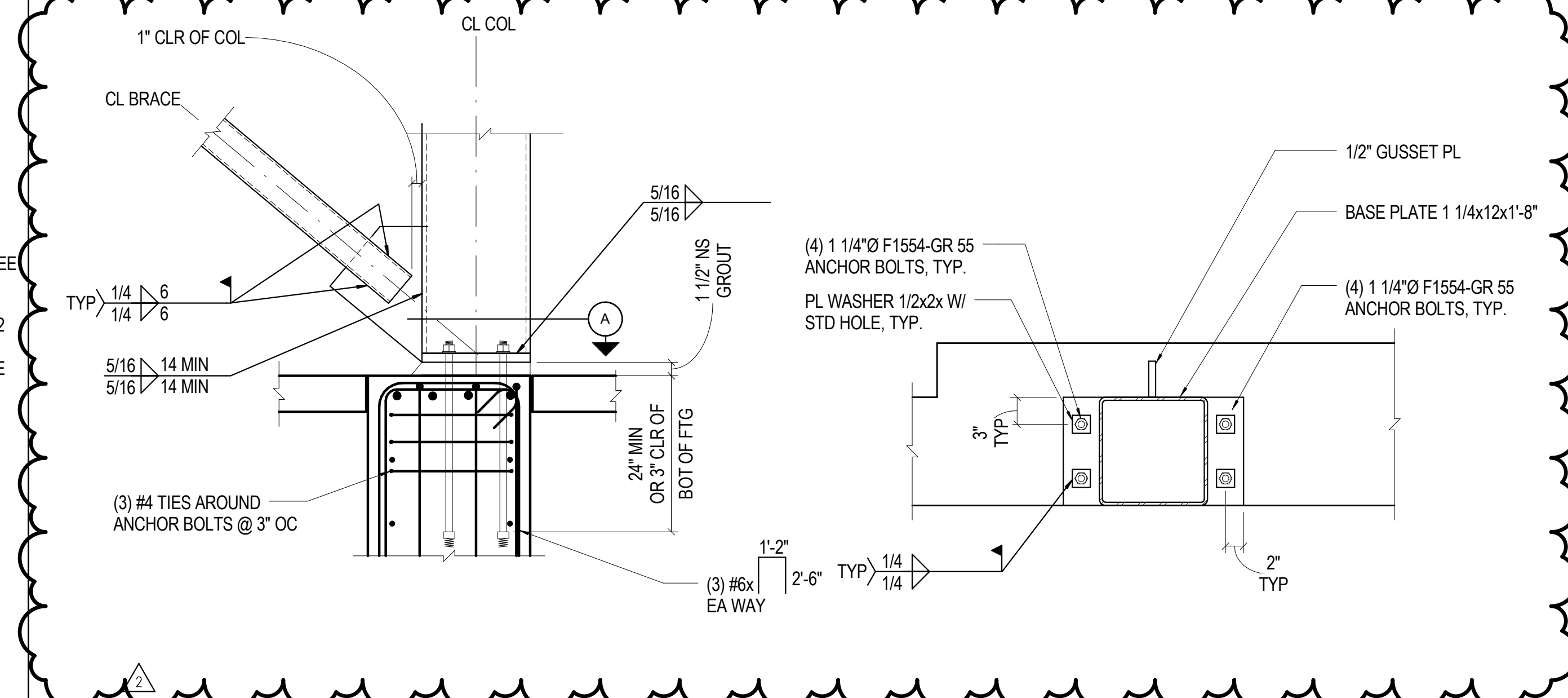
7 3/4" = 1'-0" GYM ROOF SECTION



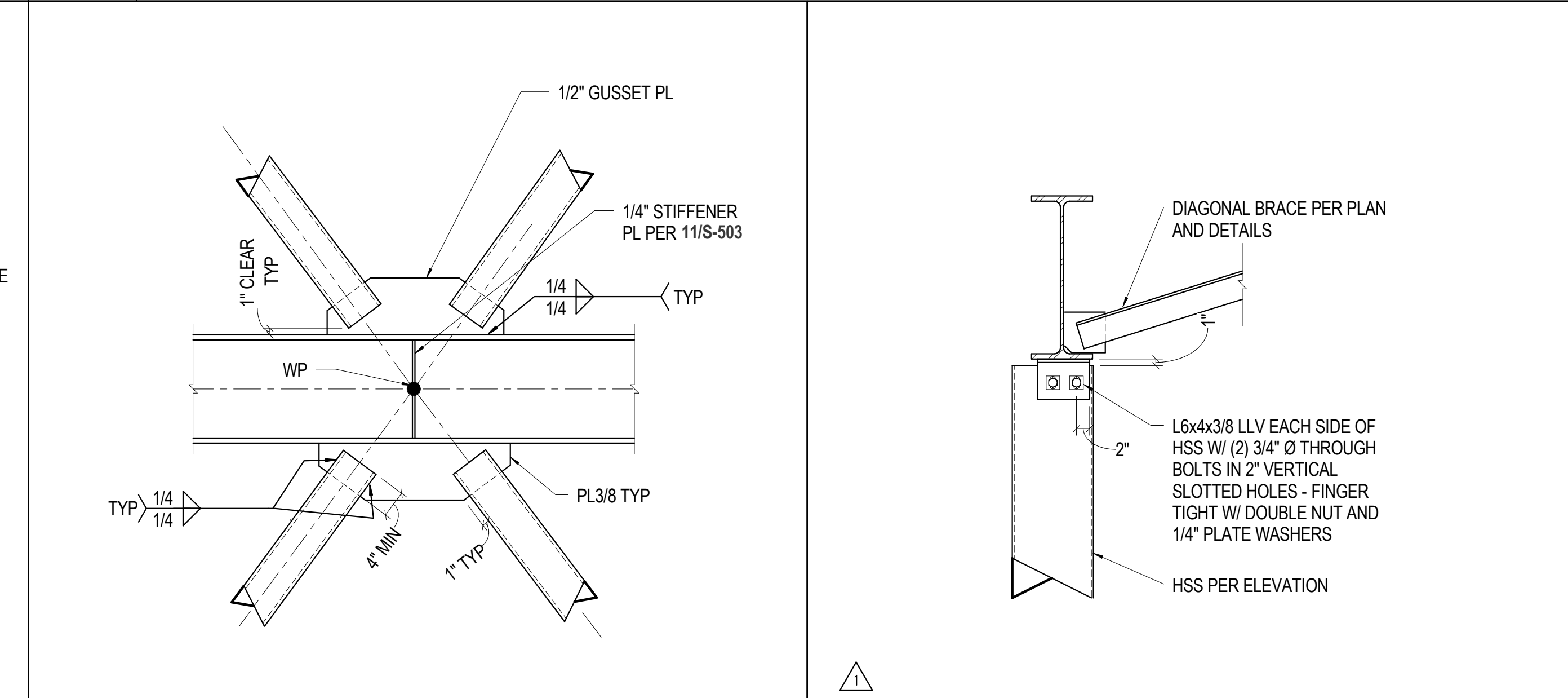
3 3/4" = 1'-0" RODECA AT COLD FORMED FRAMING



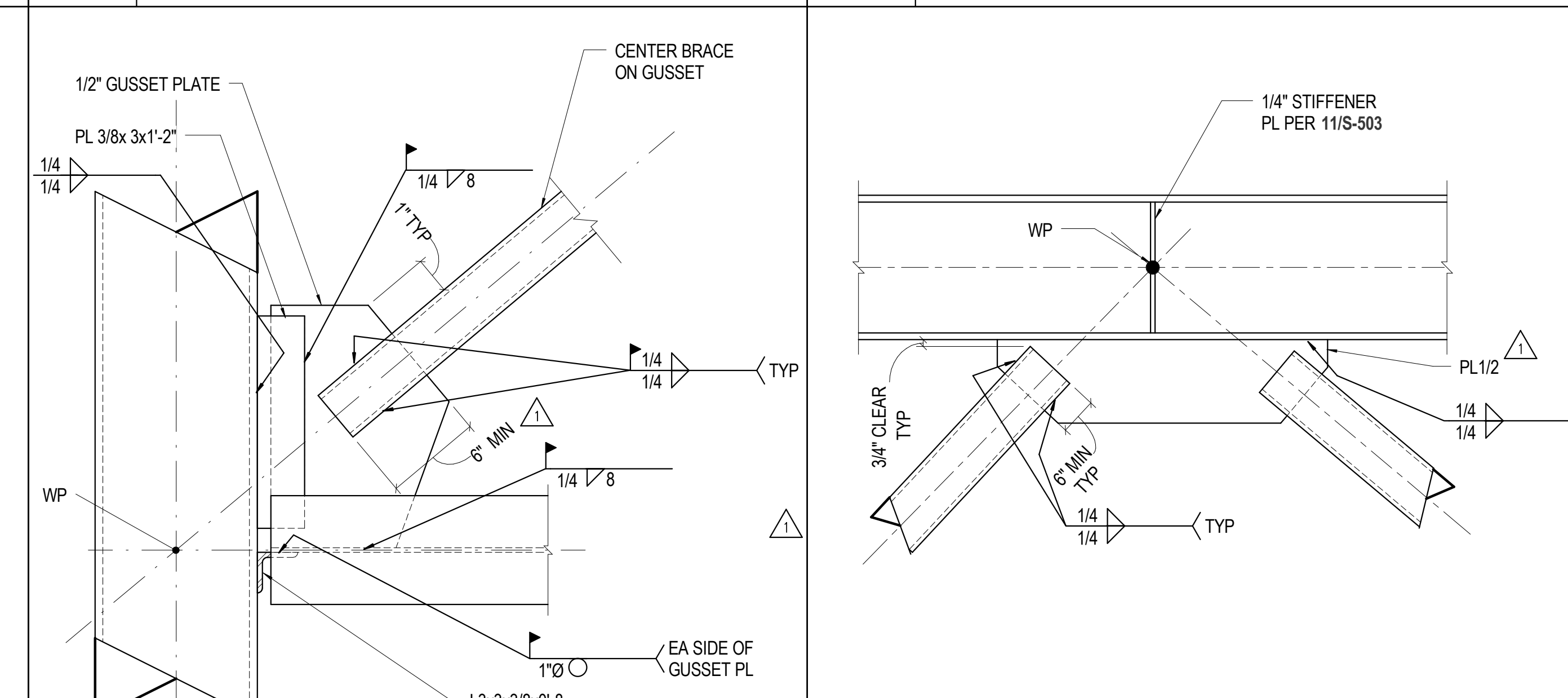
13 1" = 1'-0" BRACED FRAME BASE



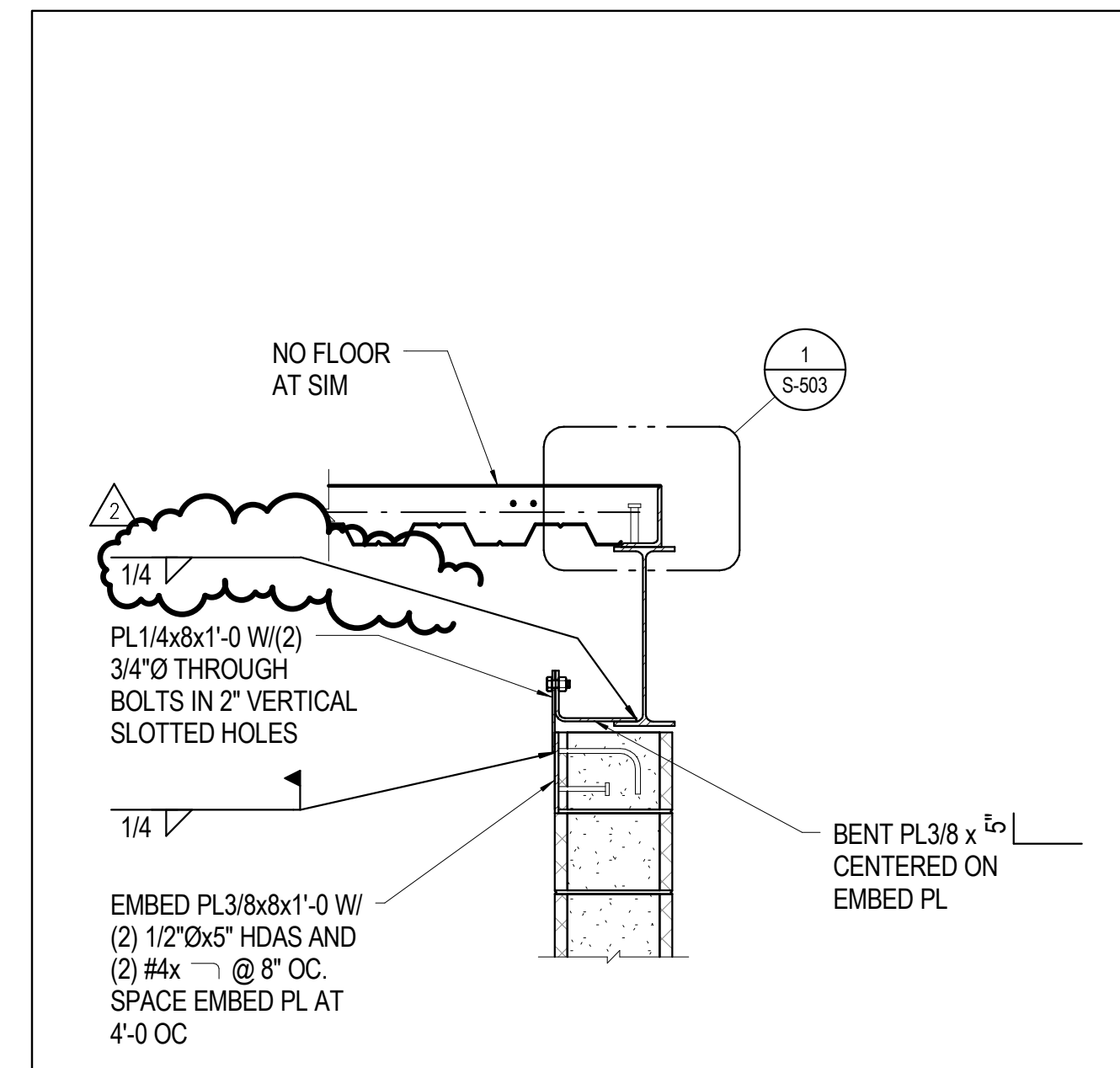
14 1" = 1'-0" BRACED FRAME BASE - 2



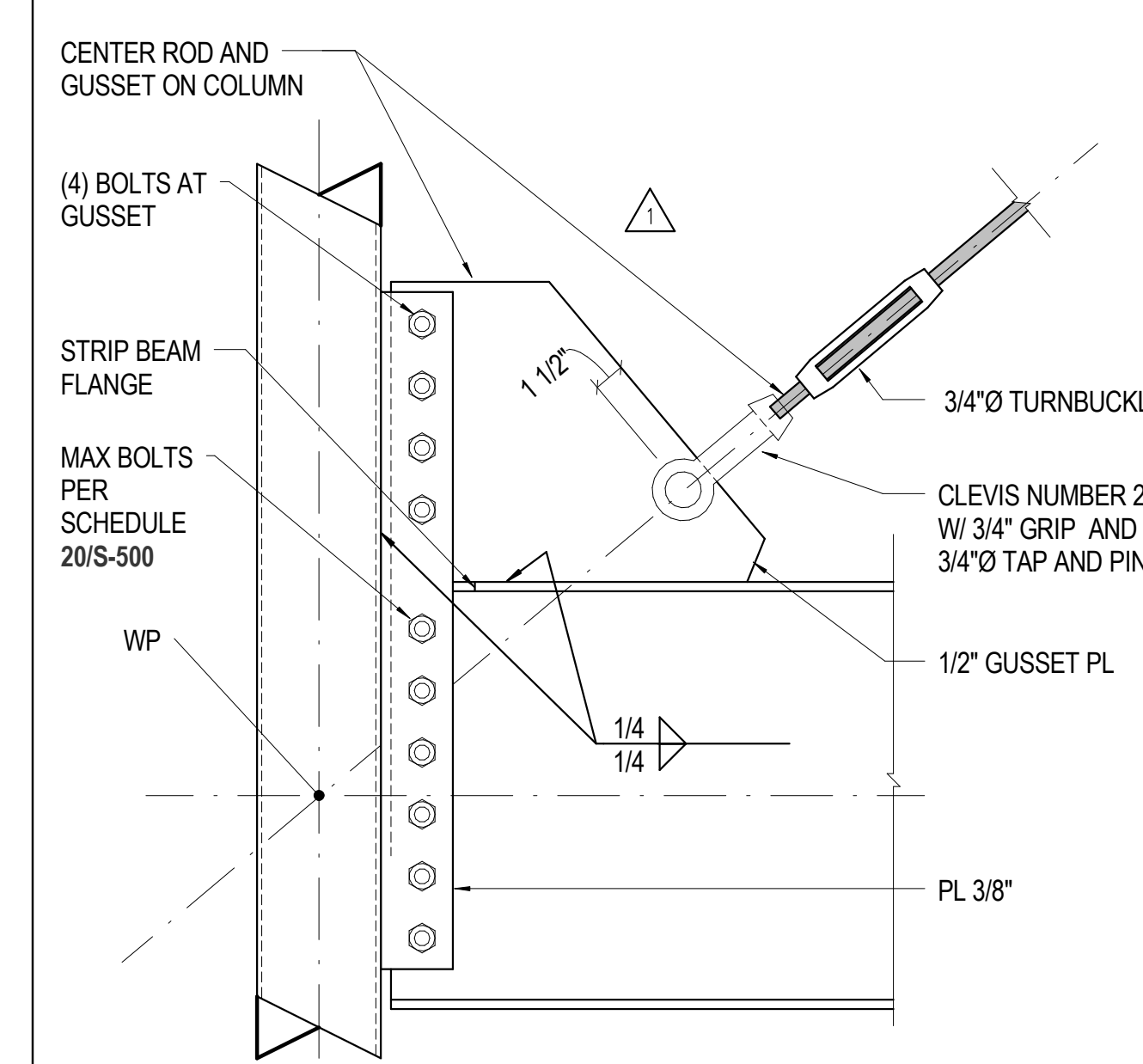
15 3/4" = 1'-0" BRACED FRAME CONNECTION - HSS/HSS



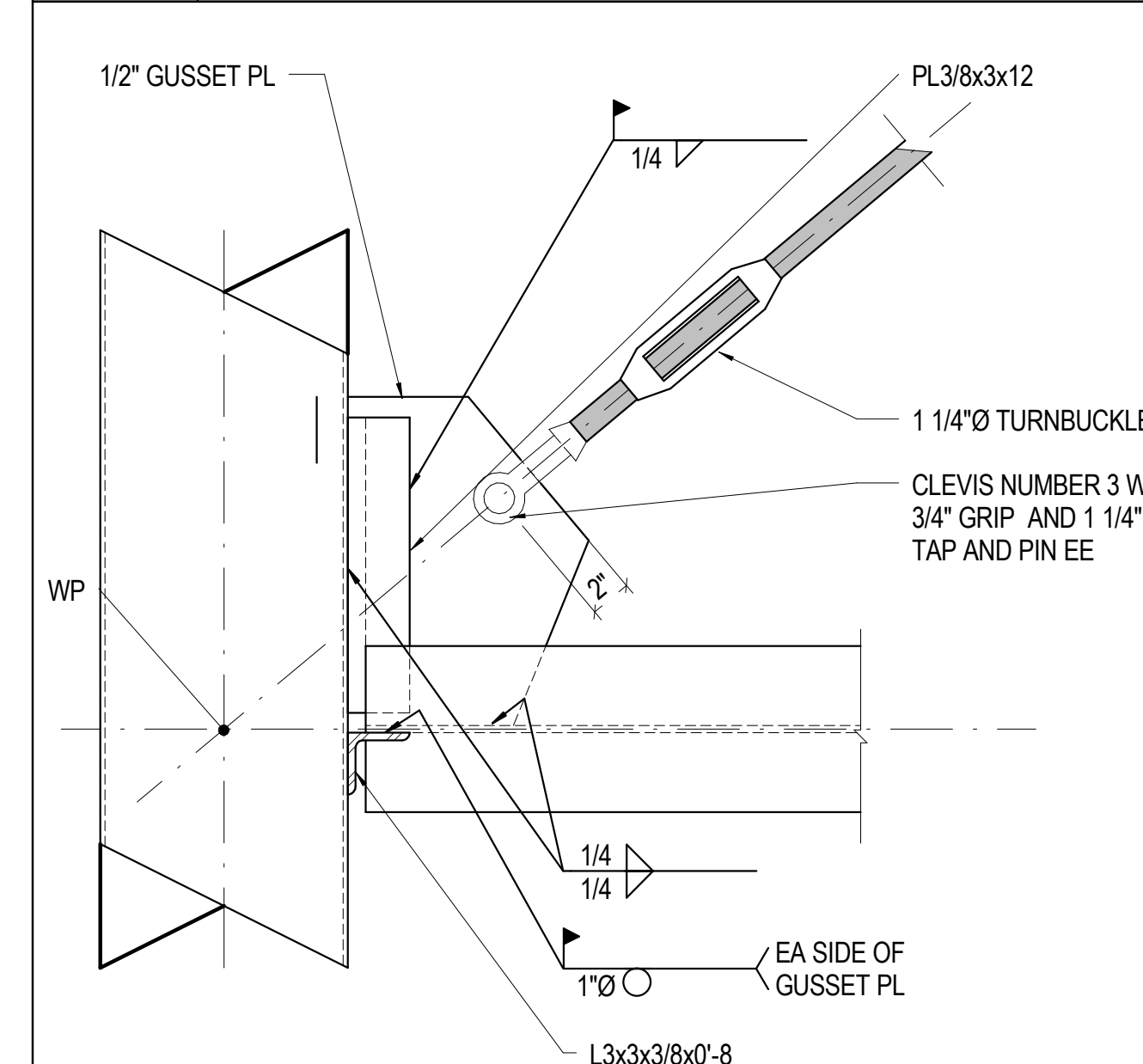
16 1 1/2" = 1'-0" TYP BRACE-TO-GUSSET CONN



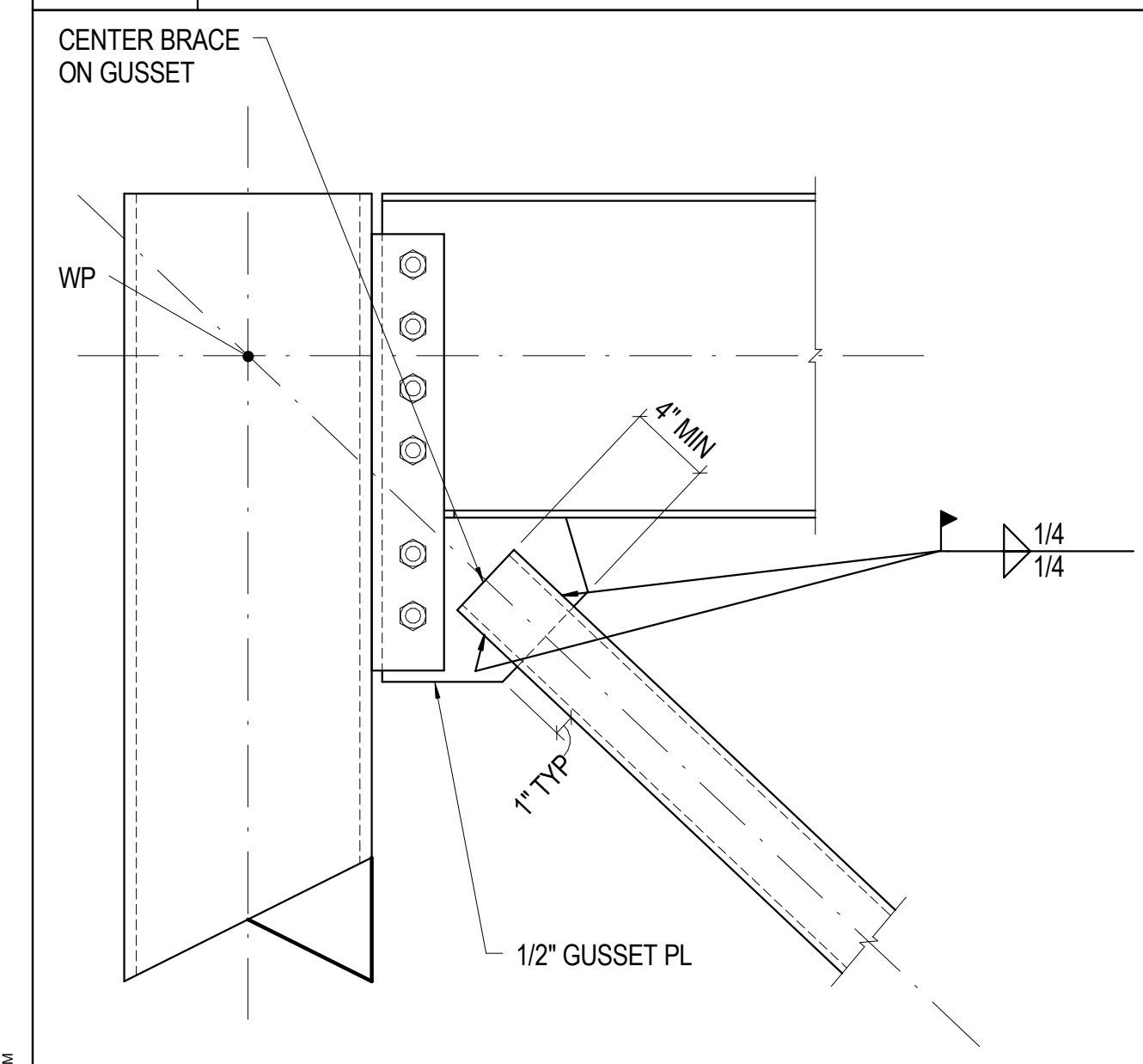
17 3/4" = 1'-0" WEIGHT ROOM FLOOR FRAMING



18 1 1/2" = 1'-0" TYP ROD-TO-GUSSET CONN



19 1 1/2" = 1'-0" LARGE ROD-TO-GUSSET CONN



20 1 1/2" = 1'-0" TYP BRACE-TO-GUSSET CONN - TOP

DESIGNERS: LP, GS
DRAWN BY: LP, GS
CHECKED BY: LP, GS
FILE PATH: C:\Projects\15_0256_RRCC_Rec_Center_R15_GainS.dwg
MM JOB #: 15_0256.S.01
SCALE: 1/4" = 1'-0"
EOR: CS
PROJECT MANAGER: LP
12/09/15 9:30:32 AM

Consultant

Issue/Revisions	Date	No.
ADDENDUM 02	12.04.2015	2
ADDENDUM 03	12.09.2015	3

Project Information

RED ROCKS COMMUNITY COLLEGE
STUDENT RECREATION CENTER
13300 W. 6th Avenue
Lakewood, Colorado 80228

Sheet Information

Sheet Title:
INTERIOR SIGNAGE

CONSTRUCTION DOCUMENTS
Nov 9, 2015
Sheet Number:

G-101

DPA Project: 15803.00

ABBREVIATIONS
CAP. HT. = CAPITAL HEIGHT
U/LC = UPPER & LOWER CASE
UC = UPPER CASE

GENERAL NOTES
ALL PANELS TO HAVE SQUARE CORNERS
FONT TO BE SELECTED IN SUBMITTAL
ALL SIGNS TO BE 1/4" THICK PHOTOPOLYMER
PAINTED FIRST SURFACE
TACTILE COPY, SYMBOLS AND ANY OTHER
GRAPHICS (EXCEPT FOR BRAILLE TIPPED WHITE
BRAILLE COLOR TO BE SELECTED IN SUBMITTAL)

TYPE 1
ROOM NUMBER
ROOM NUMBER (1 1/4" CAP. HT. UNIFORM MEDIUM)
ROOM NUMBER (BRAILLE 0.425")
ACRYLIC MESSAGE WINDOW - INSERTS N.I.C.

TYPE 2
ROOM NAME, OCCUPANT NAME
INSERT HOLDER W/ CLEAR ACRYLIC WINDOW
LOCATED (1) PER OFFICE

TYPE 3
IN CASE OF FIRE -
POST AT EA. ELEV. ENTRANCE
LOCATED (1) PER ELEV. ENTRANCE

TEXT VARIES BY LOCATION
ROOMS TO INCLUDE (REFER TO SIGN SCHEDULE)

TYPE 4A
RESTROOM
HC-ACCESSIBLE RR
(BRAILLE 0.425")

TYPE 4B
WOMEN
WOMEN/HC-ACCESSIBLE RR
(BRAILLE 0.425")

TYPE 4C
MEN
MEN/HC-ACCESSIBLE RR
(BRAILLE 0.425")

TYPE 5
EVACUATION PLAN -
PROVIDE (4) SIGNS
LOCATION TO BE DETERMINED

TYPE 6
ROOM IDENTIFICATION
TEXT TO VARY
PROVIDE AT (1) REFER TO SIGN SCHEDULE

TYPE 7
ROOM OCCUPANCY
PROVIDE AT (1) REFER TO SIGN SCHEDULE

TYPE 8
MISCELLANEOUS MESSAGE
PROVIDE AT (1) REFER TO SIGN SCHEDULE

TYPE 9
DOOR TO REMAIN OPEN
PROVIDE AT MAIN ENTRANCE & EAST ENTRY

TYPE 10
STAIR EXIT
PROVIDE (1) AT ALL STAIR ENTRANCES

TYPE 11
STAIR LANDING SIGNS
PROVIDE AT ALL INTERMEDIATE STAIR LANDINGS IN ALL EXIT STAIR ENCLOSURES.
MESSAGE TO VARY BY LOCATION

TYPE 12
BUILDING SYSTEM ROOMS

TYPE 13
ACCESSIBLE EXIT SIGNAGE
PROVIDE 7 SIGNS TO BE PROVIDED AT ACCESSIBLE EXITS

TYPE 14
DIRECTIONAL ACCESSIBLE EXIT SIGNAGE
PROVIDE 1 SIGN AT DOOR 180A AT NW CORNER OF GYM

TYPE 15
PROVIDE AT ALL FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE
BARRIERS AND SMOKE PARTITIONS ABOVE CEILING.
LOCATE WITHIN 15 FEET OF ENDS OF WALL, AND AT 30 FEET MAX SPACING.

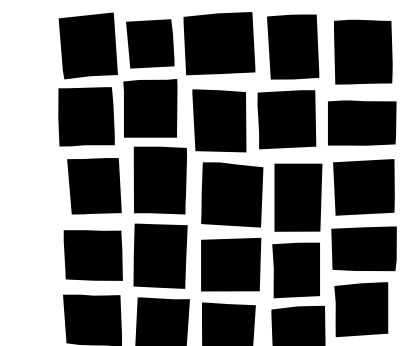
SIGN SCHEDULE					
LEVEL #	Level	Number	Name	SIGN TYPE	SIGN MESSAGE
0	ENTRY	100	ENTRY LOBBY	NONE	
0	ENTRY	101	VESTIBULE	9, 13	
0	ENTRY	102	GROUP RM	6	GROUP ROOM
0	ENTRY	103	TRIP PLANNING	6	TRIP PLANNING
0	ENTRY	104	FREE ZONE LOUNGE	6, 13	FREE ZONE LOUNGE
0	ENTRY	105	ACCESS CONTROL	NONE	
0	ENTRY	106	WORK ROOM	1, 2, 8	WORK ROOM
0	ENTRY	107	OFFICE MGR	1, 2	
0	ENTRY	108	PROGRAM STAFF	1, 2	
0	ENTRY	109	DIRECTOR	1, 2	
0	ENTRY	110	SMALL MTG ROOM	6	SMALL MEETING ROOM
0	ENTRY	111	TOILET	4A	RESTROOM
0	ENTRY	112	TOILET	4A	RESTROOM
0	ENTRY	113	JAN	1, 12	CUSTODIAL
0	ENTRY	114	STORAGE	1, 12	
0	ENTRY	115	LARGE MEETING ROOM	6	LARGE MEETING ROOM
0	ENTRY	120	EAST HALL	1, 5, 12	EAST HALL
0	ENTRY	121	EAST ENTRY	9, 13	
0	ENTRY	122	EAST ENTRY LOUNGE	NONE	

SIGN SCHEDULE					
LEVEL #	Level	Number	Name	SIGN TYPE	SIGN MESSAGE
1	LEVEL 1	130	RECREATION LOUNGE	3	RECREATION LOUNGE
1	LEVEL 1	131	CLIMBING/BOULDERING	6, 8A	CLIMBING & BOULDERING
1	LEVEL 1	132	VENDING	1, 3, 12	VENDING
1	LEVEL 1	133	IT	1, 12	IT
1	LEVEL 1	134	ELEC	1, 12	ELEC
1	LEVEL 1	135	WOMENS LR	4B	WOMEN'S LOCKER ROOM
1	LEVEL 1	136	JAN	1, 12	CUSTODIAL
1	LEVEL 1	137	LOCKERS	6	DAY LOCKERS
1	LEVEL 1	138	FAMILY LR	4A	FAMILY LOCKER ROOM
1	LEVEL 1	139	FAMILY LR	4A	FAMILY LOCKER ROOM
1	LEVEL 1	140	MENS LR	4C	MEN'S LOCKER ROOM
1	LEVEL 1	141	JAN	1, 12	CUSTODIAL
1	LEVEL 1	150	HALLWAY	5	
1	LEVEL 1	151	SMALL FITNESS STUDIO	6, 8B	SMALL FITNESS STUDIO
1	LEVEL 1	152	STUDIO STOR	1, 12	FITNESS STORAGE
1	LEVEL 1	153	MEDIUM GROUP FITNESS	6	MEDIUM GROUP FITNESS
1	LEVEL 1	160	TRASH/STORAGE	1, 12, 8B	MAINTENANCE STORAGE
1	LEVEL 1	161	RISER RM	1, 12	RISER ROOM
1	LEVEL 1	162	MECHANICAL	1, 12	MECHANICAL
1	LEVEL 1	163	LAUNDRY	1, 12	LAUNDRY
1	LEVEL 1	164	GYM STORAGE	1, 12	GYMNASIUM STORAGE
1	LEVEL 1	165	BREAK	1, 12, 8B	BREAK ROOM
1	LEVEL 1	166	CLIMBING STOR	1, 12	CLIMBING STORAGE
1	LEVEL 1	180	GYMNASIUM	6, 7, 8A, 13, 14	GYMNASIUM
1	LEVEL 1	S-2	STAIR 2	10, 11, 13	

SIGN SCHEDULE					
LEVEL #	Level	Number	Name	SIGN TYPE	SIGN MESSAGE
2	LEVEL 2	200	ELEV	3, 5	
2	LEVEL 2	201	CORRIDOR	NONE	
2	LEVEL 2	202	CARDIO / STRETCH	6	CARDIO AREA
2	LEVEL 2	203	IT	1, 12	IT
2	LEVEL 2	204	ELEC	1, 12	IT
2	LEVEL 2	205	CARDIO COORD	1, 12	
2	LEVEL 2	206	JAN	1, 12	CUSTODIAL
2	LEVEL 2	207	MENS	4C	MEN
2	LEVEL 2	208	WOMEN	4B	WOMEN
2	LEVEL 2	209	EQUIP STORAGE	1, 12	EQUIPMENT STORAGE
2	LEVEL 2	210	CORRIDOR	5	
2	LEVEL 2	211	FUNCTIONAL TRAINING	6	FUNCTIONAL TRAINING
2	LEVEL 2	212	SELECTORIZED CIRCUIT	6	SELECTORIZED CIRCUIT
2	LEVEL 2	213	STRETCHING	NONE	
2	LEVEL 2	214	OUTDOOR FITNESS DECK	NONE	
2	LEVEL 2	215	CARDIO EQUIPMENT	6	CARDIO EQUIPMENT
2	LEVEL 2	220	FREE WEIGHTS	6	FREE WEIGHTS
2	LEVEL 2	S-2	STAIR 2	10, 11	

SIGN SCHEDULE					
LEVEL #	Level	Number	Name	SIGN TYPE	SIGN MESSAGE
E	LEVEL 1	1571	MULTIPURPOSE CONF ROOM B	6	MULTIPURPOSE CONF ROOM B
E	LEVEL 1	1572	MULTIPURPOSE CONF ROOM A	6	MULTIPURPOSE CONF ROOM A
E	LEVEL 1	1573	CATERING	1, 12	CATERING
E	LEVEL 1	1574	FURN STORAGE	1, 12	FURNITURE STORAGE
E	LEVEL 1	1576	MEETING ROOM	6	MEETING ROOM
E	LEVEL 1	1582	STORAGE	1, 12	STORAGE

NOTE:
1. SIGN MESSAGE TO BE CONFIRMED WITH OWNER.



DAVIS PARTNERSHIP ARCHITECTS

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303.861.8555

Consultant

Issue/Revisions	Date	No.
ADDENDUM 02	12.04.2015	2
ADDENDUM 03	12.09.2015	3

Project Information

**RED ROCKS COMMUNITY COLLEGE
STUDENT RECREATION CENTER**
13300 W. 6th Avenue
Lakewood, Colorado 80228

Sheet Information

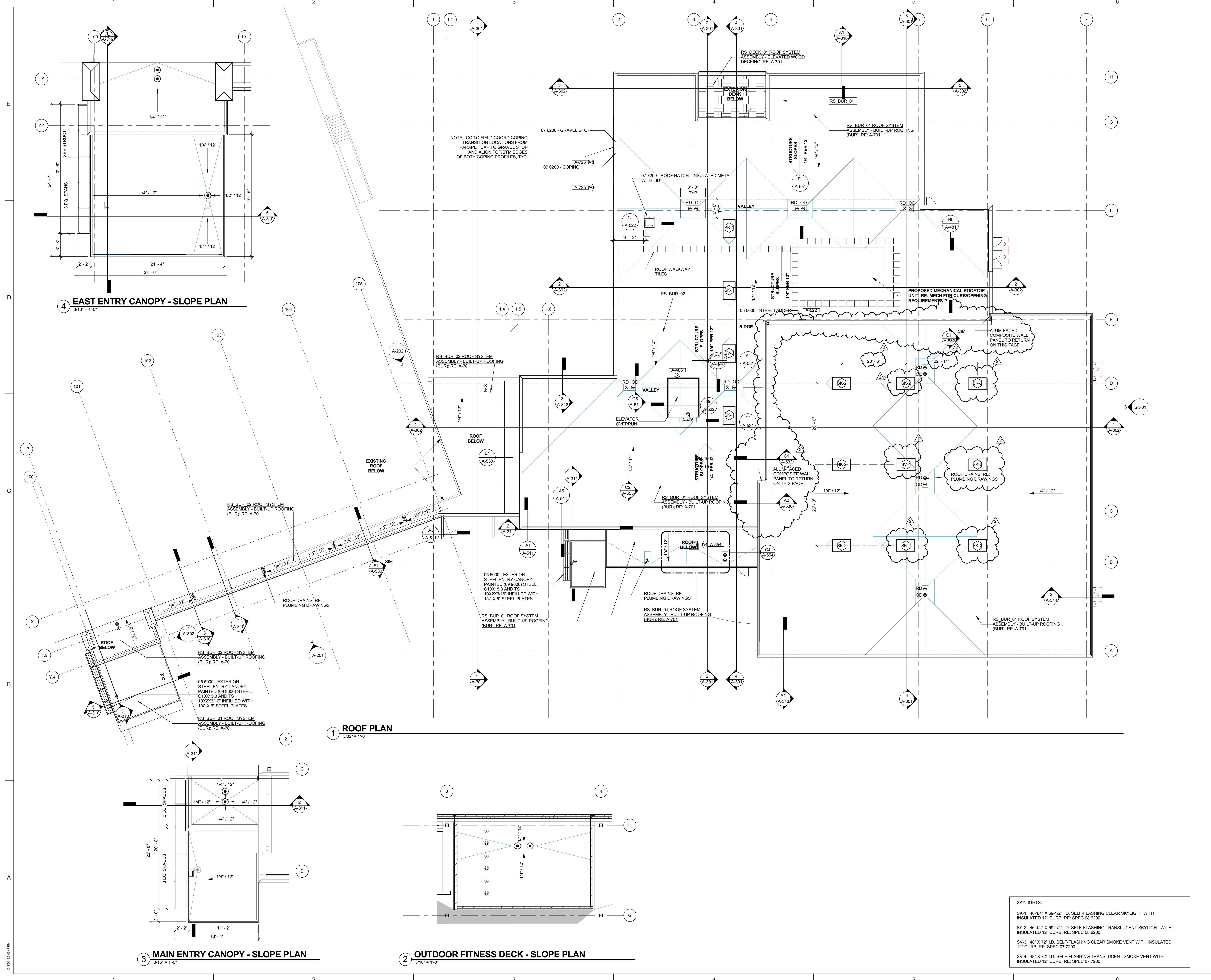
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ROOF PLAN

CONSTRUCTION DOCUMENTS
Nov 9, 2015
Sheet Number:

A-103

DPA Project: 15803.00

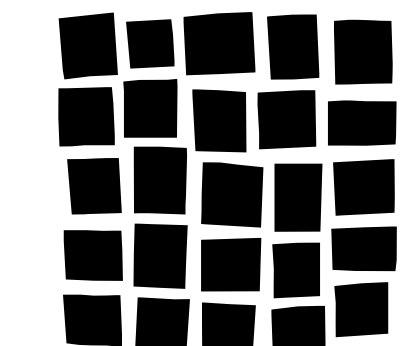


4 EAST ENTRY CANOPY - SLOPE PLAN
3/16" = 1'-0"

1 ROOF PLAN
3/32" = 1'-0"

3 MAIN ENTRY CANOPY - SLOPE PLAN
3/16" = 1'-0"

2 OUTDOOR FITNESS DECK - SLOPE PLAN
3/16" = 1'-0"



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Issue/Revisions Date No.

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Project Information

**RED ROCKS COMMUNITY COLLEGE
STUDENT RECREATION CENTER**

13300 W. 6th Avenue
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Sheet Information

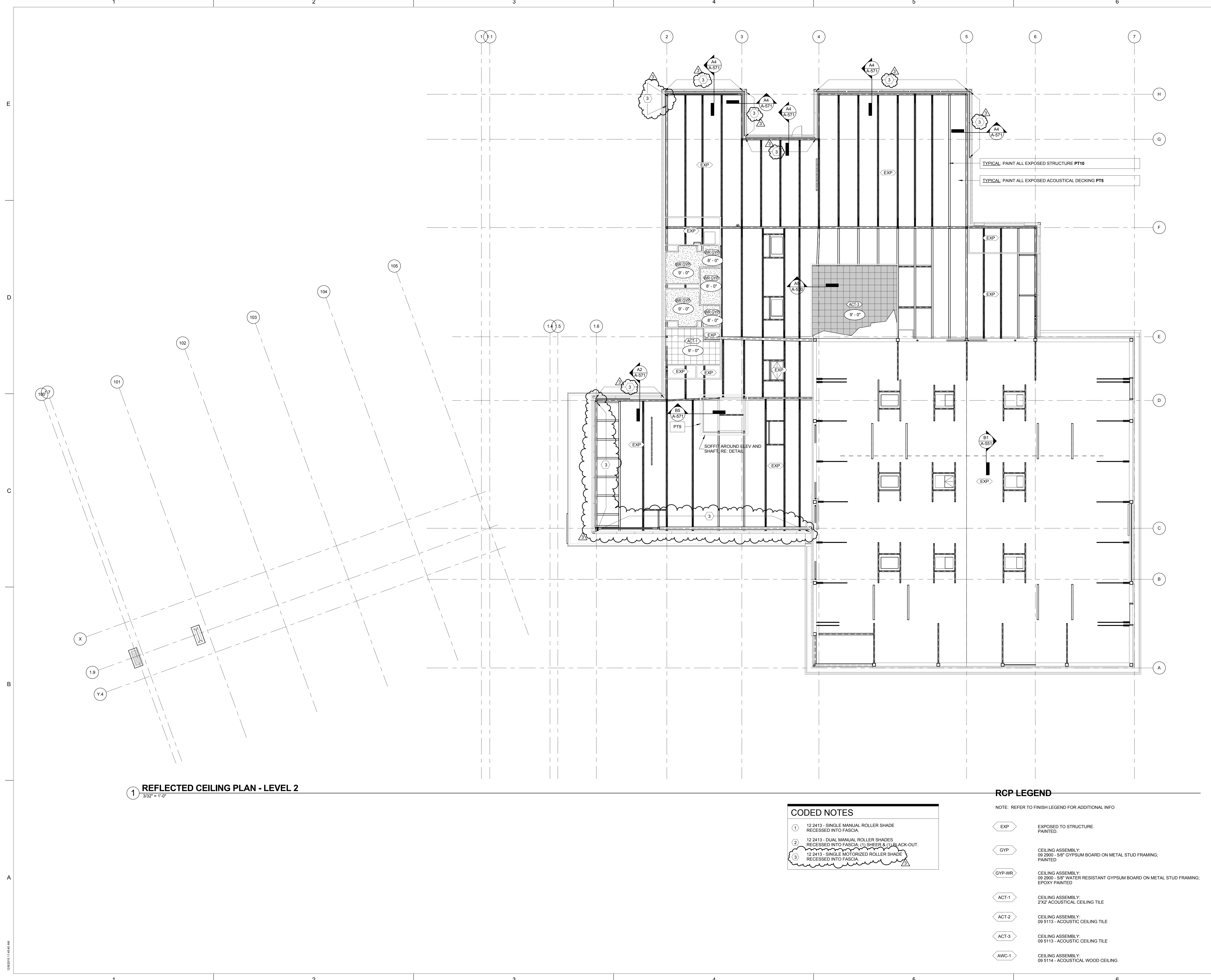
Sheet Title:

**REFLECTED
CEILING PLAN -
LEVEL TWO**

CONSTRUCTION
DOCUMENTS
Nov 9, 2015
Sheet Number:

A-152

DPA Project: 15803.00



1 REFLECTED CEILING PLAN - LEVEL 2
3/32" = 1'-0"

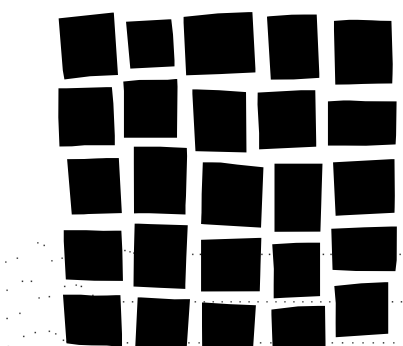
CODED NOTES

- ① 12 2413 - SINGLE MANUAL ROLLER SHADE RECESSED INTO FASCIA.
- ② 12 2413 - DUAL MANUAL ROLLER SHADES RECESSED INTO FASCIA. (1) SHEER & (1) BLACK-OUT.
- ③ 12 2413 - SINGLE MOTORIZED ROLLER SHADE RECESSED INTO FASCIA.

RCP-LEGEND

NOTE: REFER TO FINISH LEGEND FOR ADDITIONAL INFO

- EXP EXPOSED TO STRUCTURE. PAINTED.
- GYP CEILING ASSEMBLY: 09 2900 - 5/8" GYPSUM BOARD ON METAL STUD FRAMING; PAINTED.
- GYP-WR CEILING ASSEMBLY: 09 2900 - 5/8" WATER RESISTANT GYPSUM BOARD ON METAL STUD FRAMING; EPOXY PAINTED.
- ACT-1 CEILING ASSEMBLY: 2'X2' ACOUSTICAL CEILING TILE
- ACT-2 CEILING ASSEMBLY: 09 5113 - ACOUSTIC CEILING TILE
- ACT-3 CEILING ASSEMBLY: 09 5113 - ACOUSTIC CEILING TILE
- AWC-1 CEILING ASSEMBLY: 09 5114 - ACOUSTICAL WOOD CEILING



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ADDENDUM 03	12.09.2015	3

Project Information

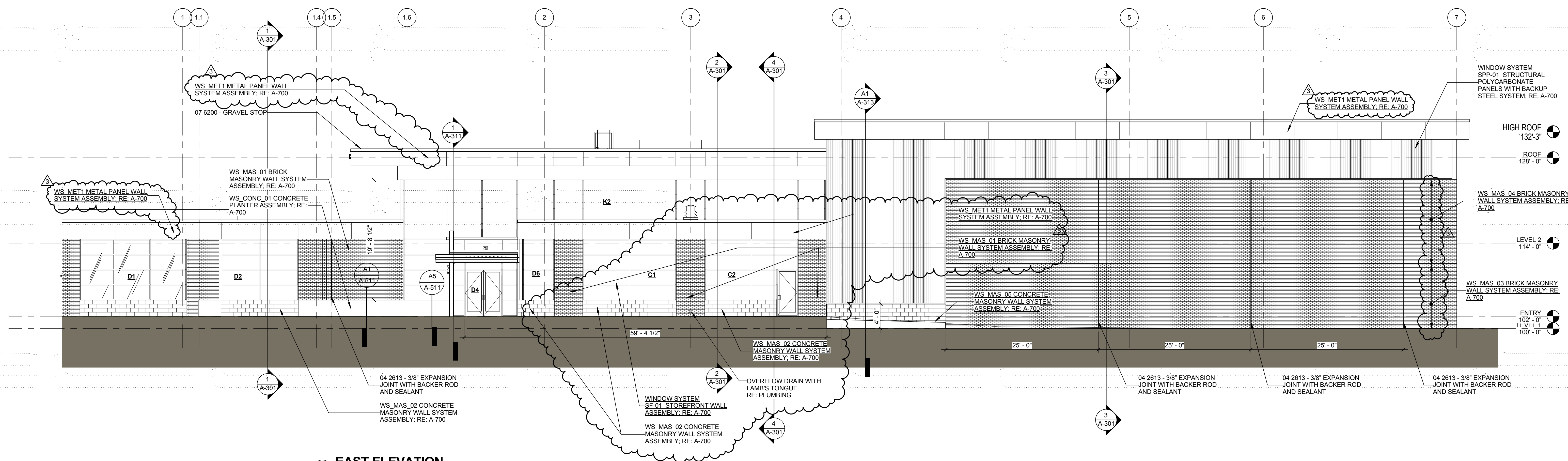
**RED ROCKS COMMUNITY COLLEGE
 STUDENT RECREATION CENTER**
 13300 W. 6th Avenue
 Lakewood, Colorado 80228

Sheet Information
 Sheet Title:
EXTERIOR ELEVATIONS

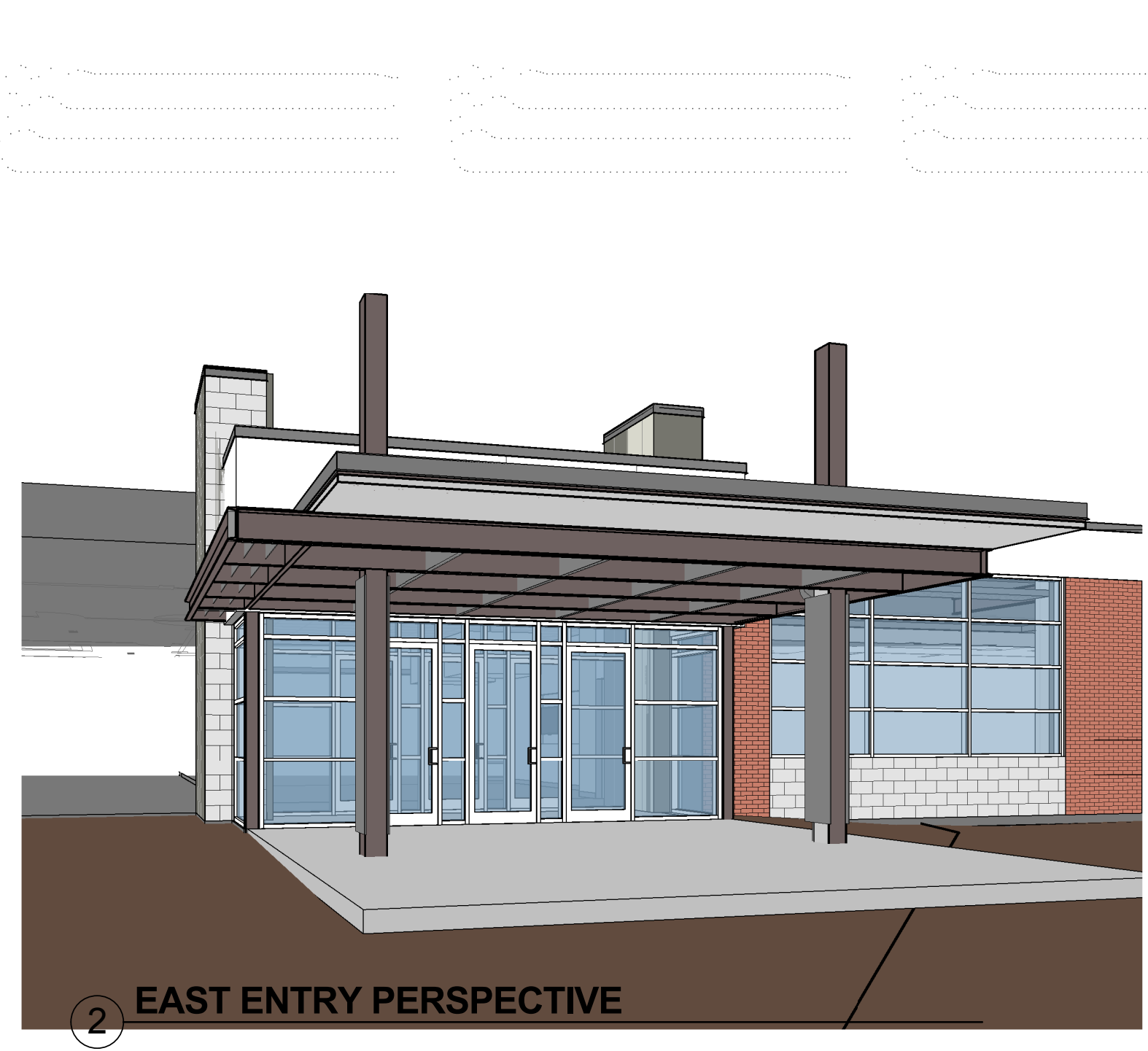
CONSTRUCTION DOCUMENTS
 Nov 9, 2015
 Sheet Number:

A-201

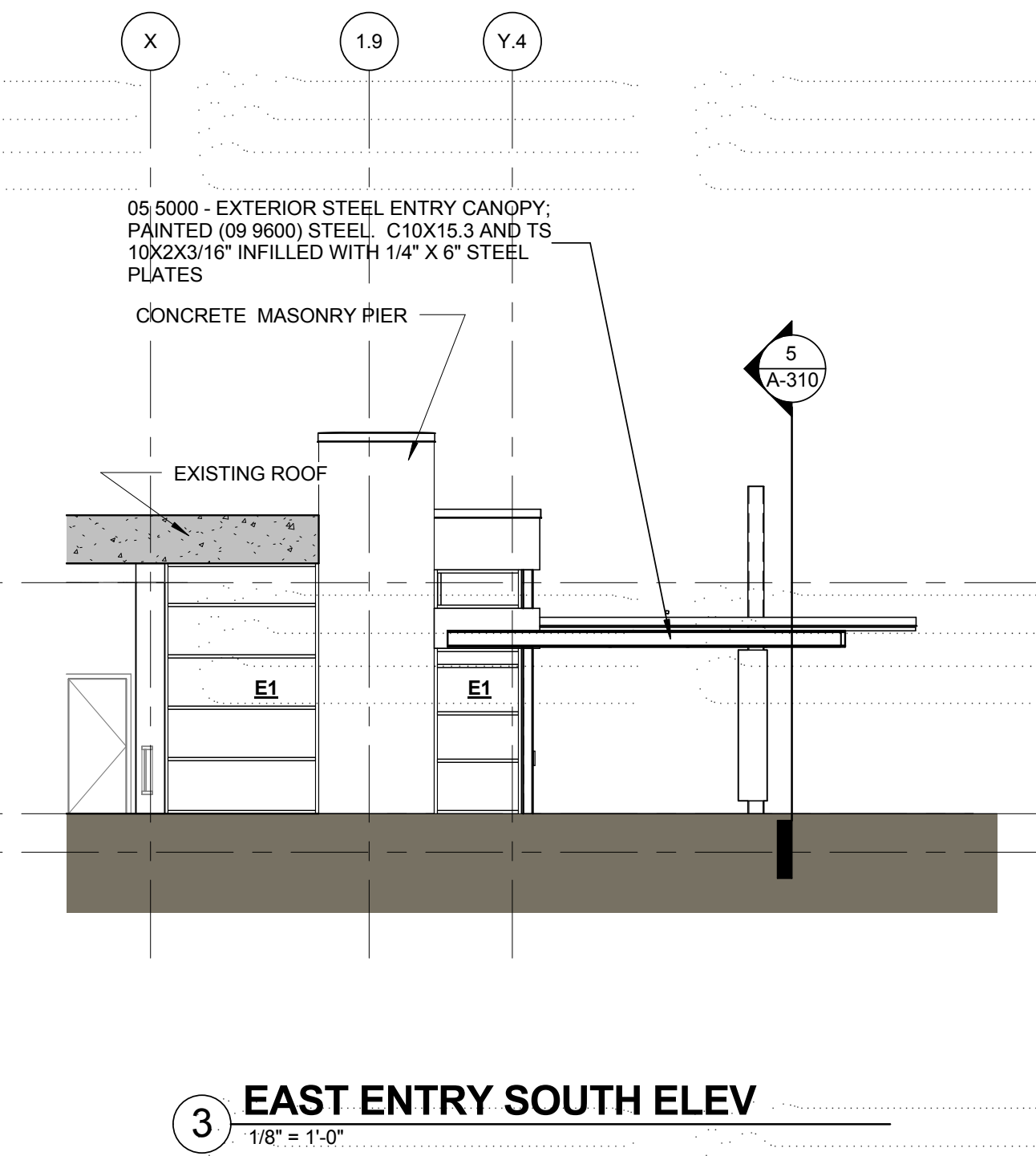
DPA Project: 15803.00



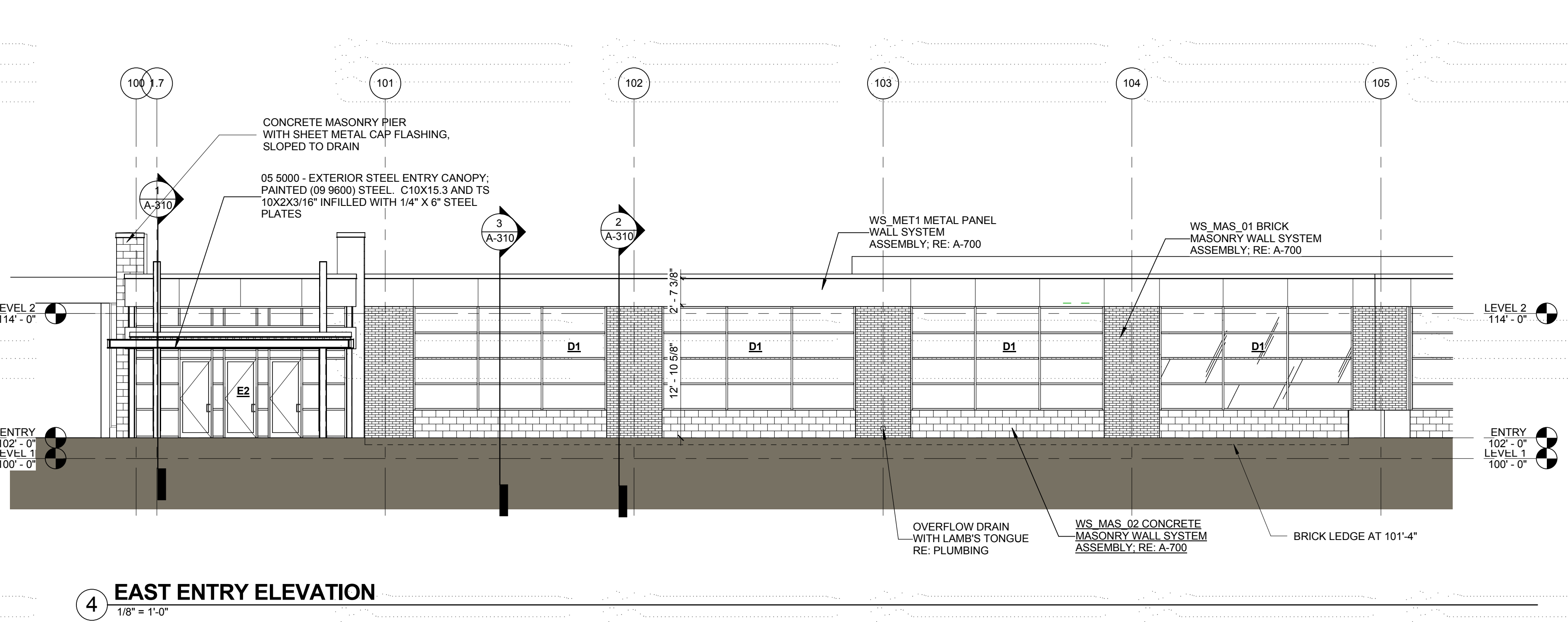
1 EAST ELEVATION
 1/8" = 1'-0"



2 EAST ENTRY PERSPECTIVE



3 EAST ENTRY SOUTH ELEV
 1/8" = 1'-0"



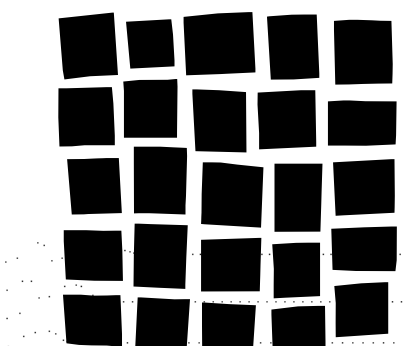
4 EAST ENTRY ELEVATION
 1/8" = 1'-0"



5 MAIN ENTRY PERSPECTIVE

ELEVATION GENERAL NOTES:
 1. REFER TO SHEETS A-725 AND A-726 FOR WINDOW ELEVATIONS, STOREFRONT, CURTAINWALL SYSTEMS, AND GLAZING TYPES

12/20/2015 9:11:29 AM



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Issue/Revisions	Date	No.
ADDENDUM 03	12.09.2015	3

Project Information

RED ROCKS COMMUNITY COLLEGE
STUDENT RECREATION CENTER
13300 W. 6th Avenue
Lakewood, Colorado 80228

Sheet Information

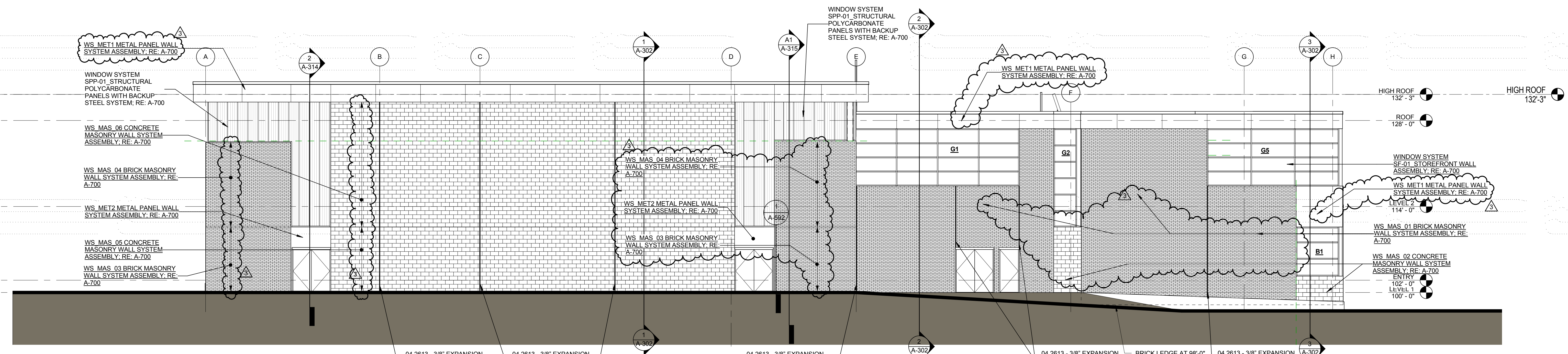
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EXTERIOR
ELEVATIONS

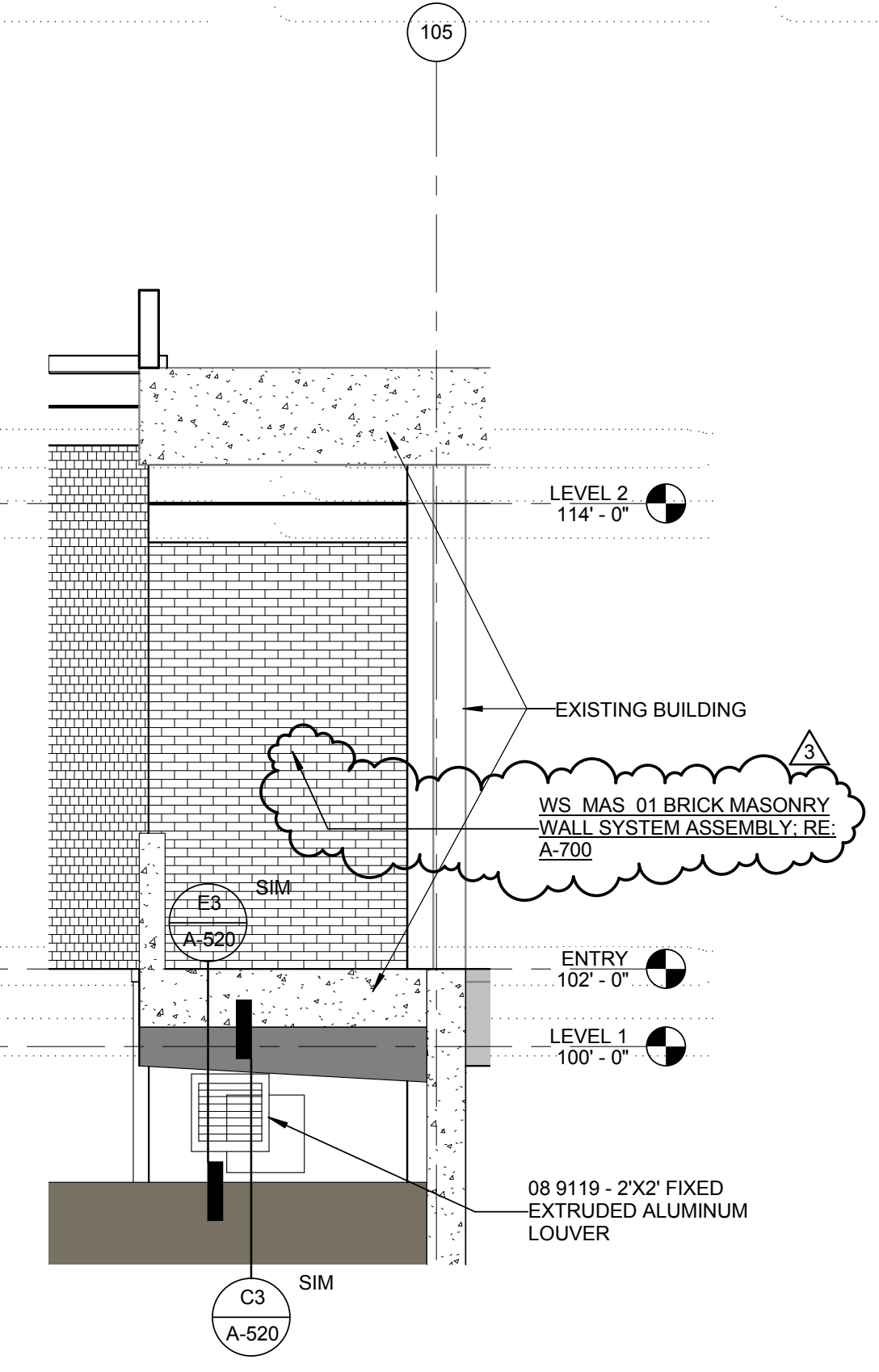
CONSTRUCTION
DOCUMENTS
Nov 9, 2015
Sheet Number:

A-202

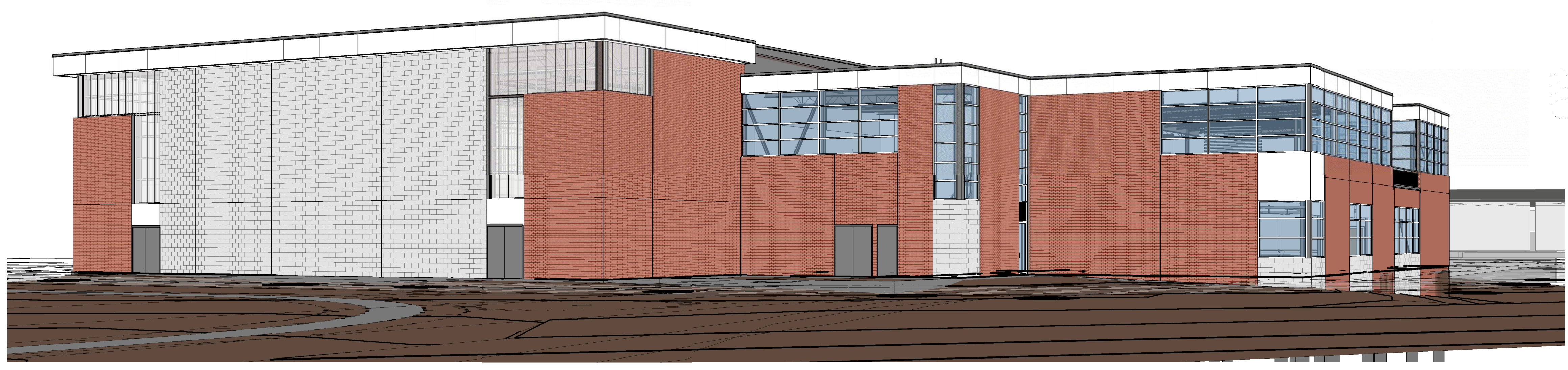
DPA Project: 15803.00



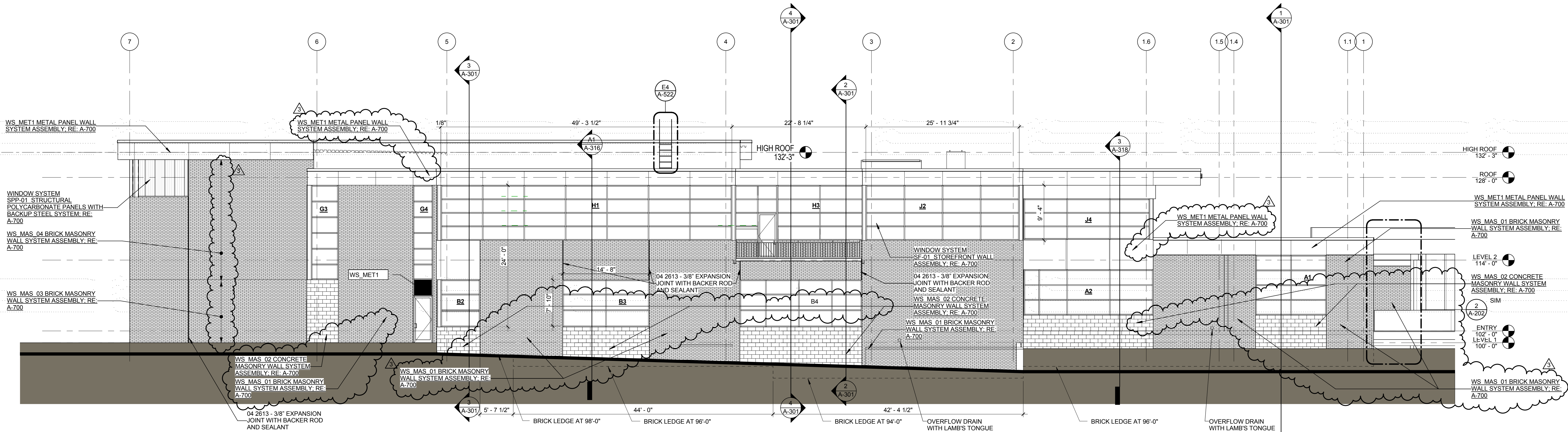
1 NORTH ELEVATION
1/8" = 1'-0"



2 SOUTHWEST ELEVATION
1/4" = 1'-0"

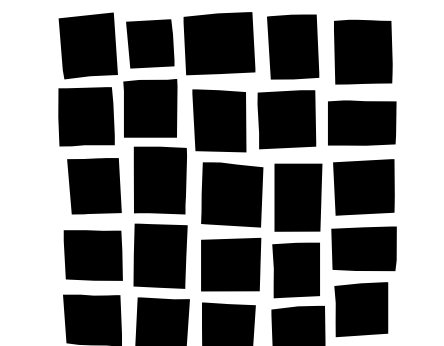


4 PERSPECTIVE FROM NORTHWEST



3 WEST ELEVATION
1/8" = 1'-0"

ELEVATION GENERAL NOTES:
1. REFER TO SHEETS A-725 AND A-726 FOR WINDOW ELEVATIONS, STOREFRONT, CURTAINWALL SYSTEMS, AND GLAZING TYPES



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Project Information

RED ROCKS COMMUNITY COLLEGE
STUDENT RECREATION CENTER
13300 W. 6th Avenue
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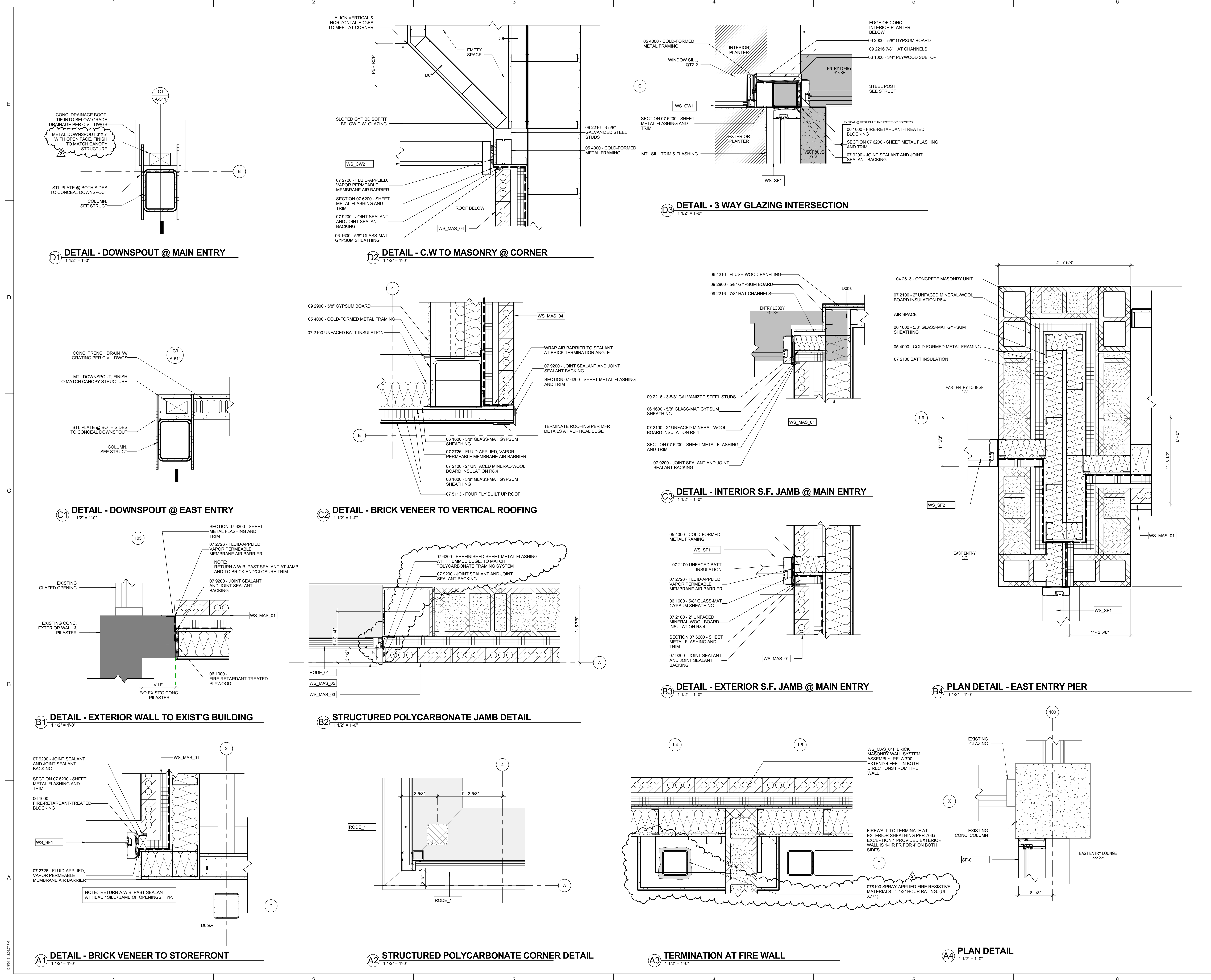
Sheet Information

Sheet Title:
EXTERIOR
DETAILS - PLAN

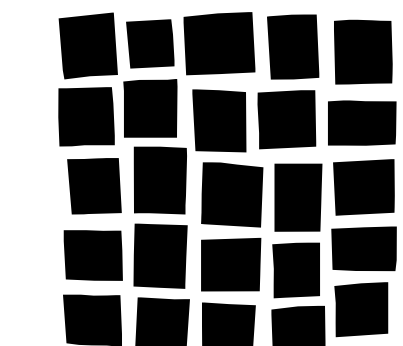
CONSTRUCTION DOCUMENTS
Nov 9, 2015
Sheet Number:

A-501

DPA Project: 15803.00



12/20/15 12:08:07 PM



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Issue/Revisions	Date	No.
ADDENDUM 02	12.04.2015	2
ADDENDUM 03	12.09.2015	3

Project Information

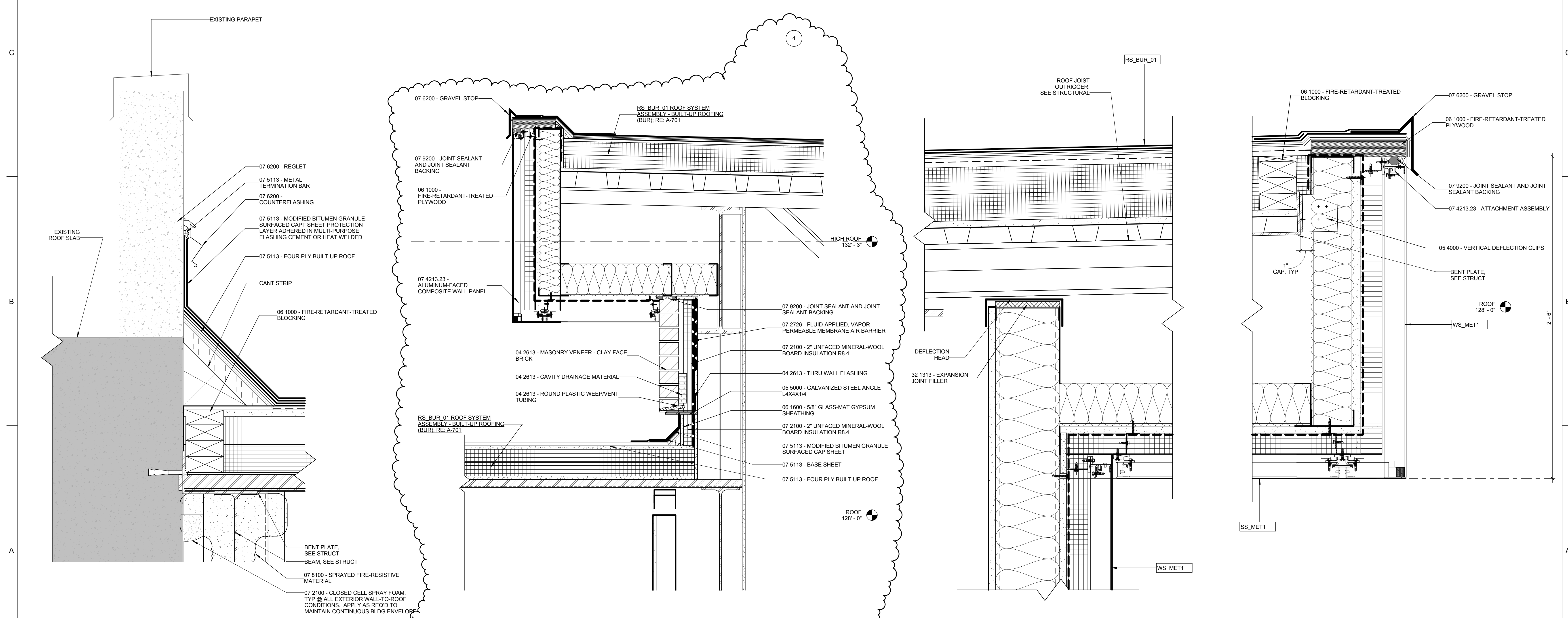
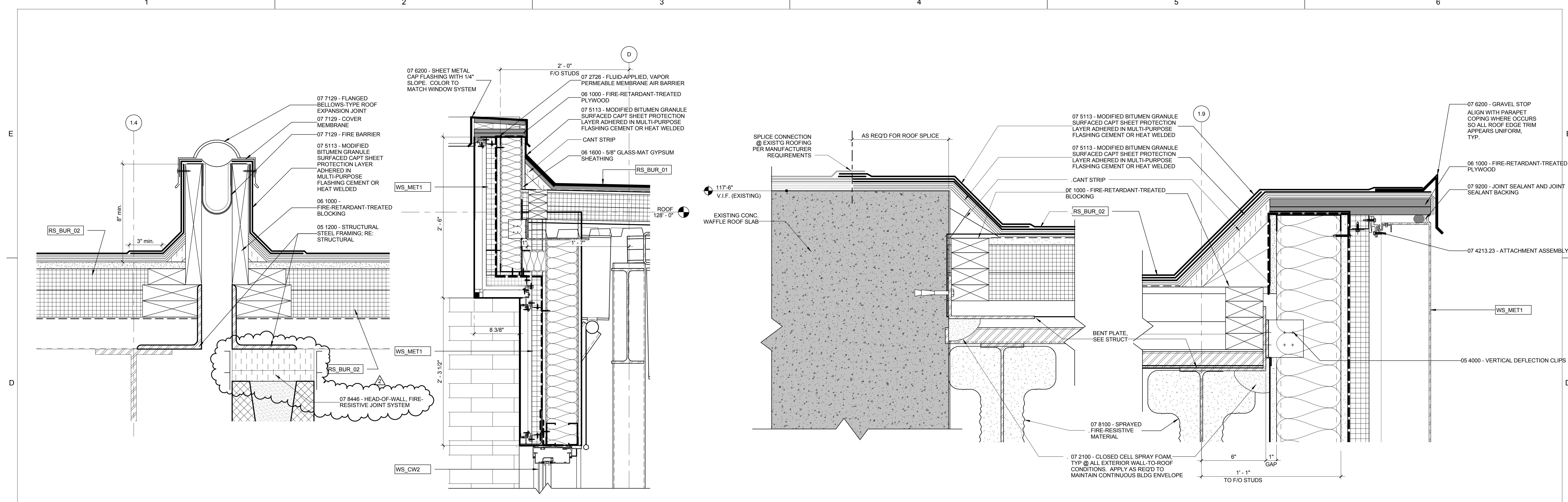
**RED ROCKS COMMUNITY COLLEGE
 STUDENT RECREATION CENTER**
 13300 W. 6th Avenue
 Lakewood, Colorado 80228

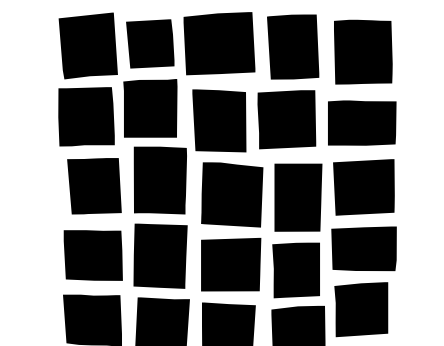
Sheet Information

Sheet Title:
EXTERIOR DETAILS - SECTION, PARAPET
 CONSTRUCTION DOCUMENTS
 Nov 9, 2015
 Sheet Number:

A-530

DPA Project: 15803.00





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Issue/Revisions	Date	No.
ADDENDUM 03	12.09.2015	3

Project Information

**RED ROCKS COMMUNITY COLLEGE
STUDENT RECREATION CENTER**
13300 W. 6th Avenue
Lakewood, Colorado 80228

Sheet Information

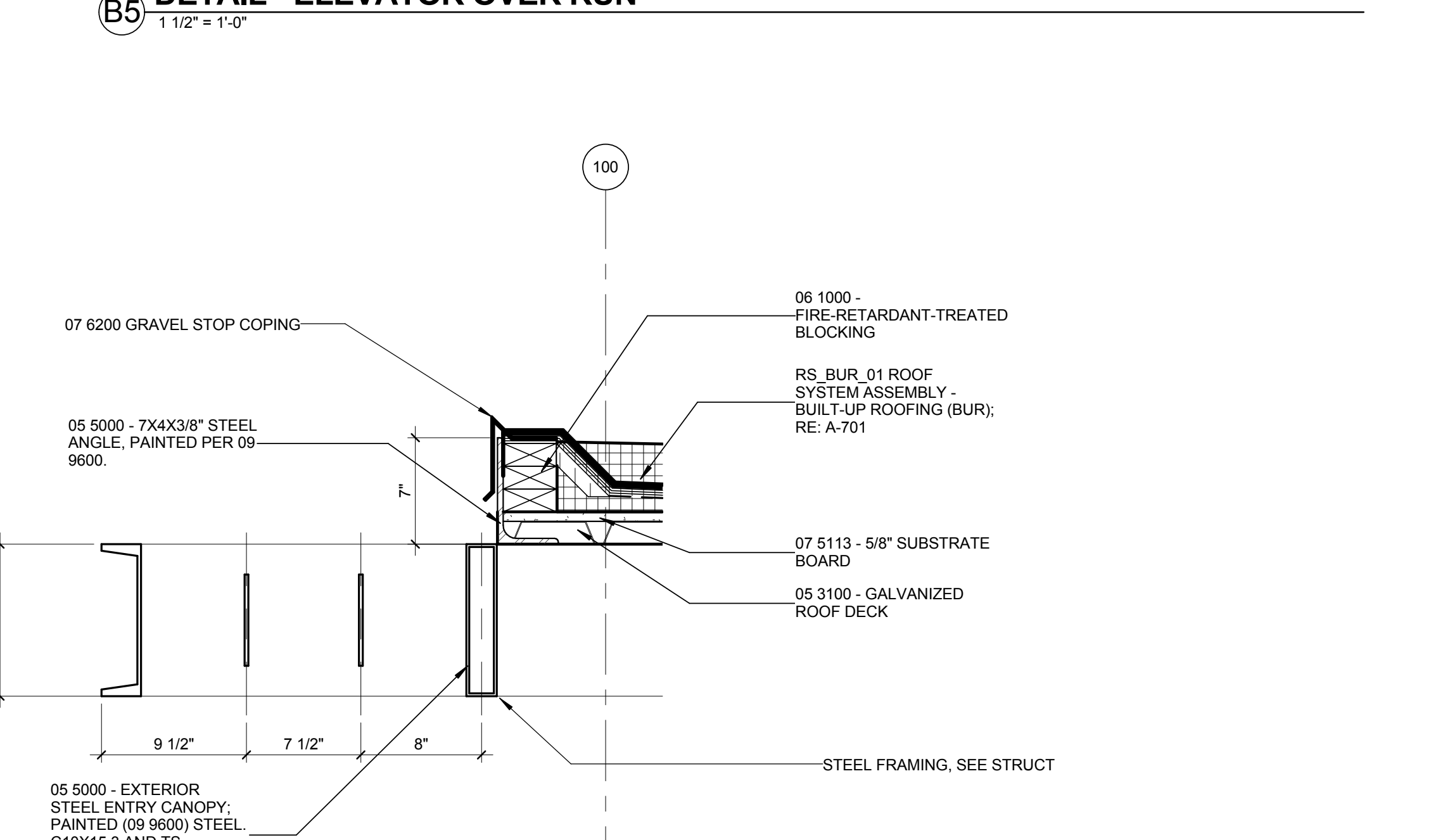
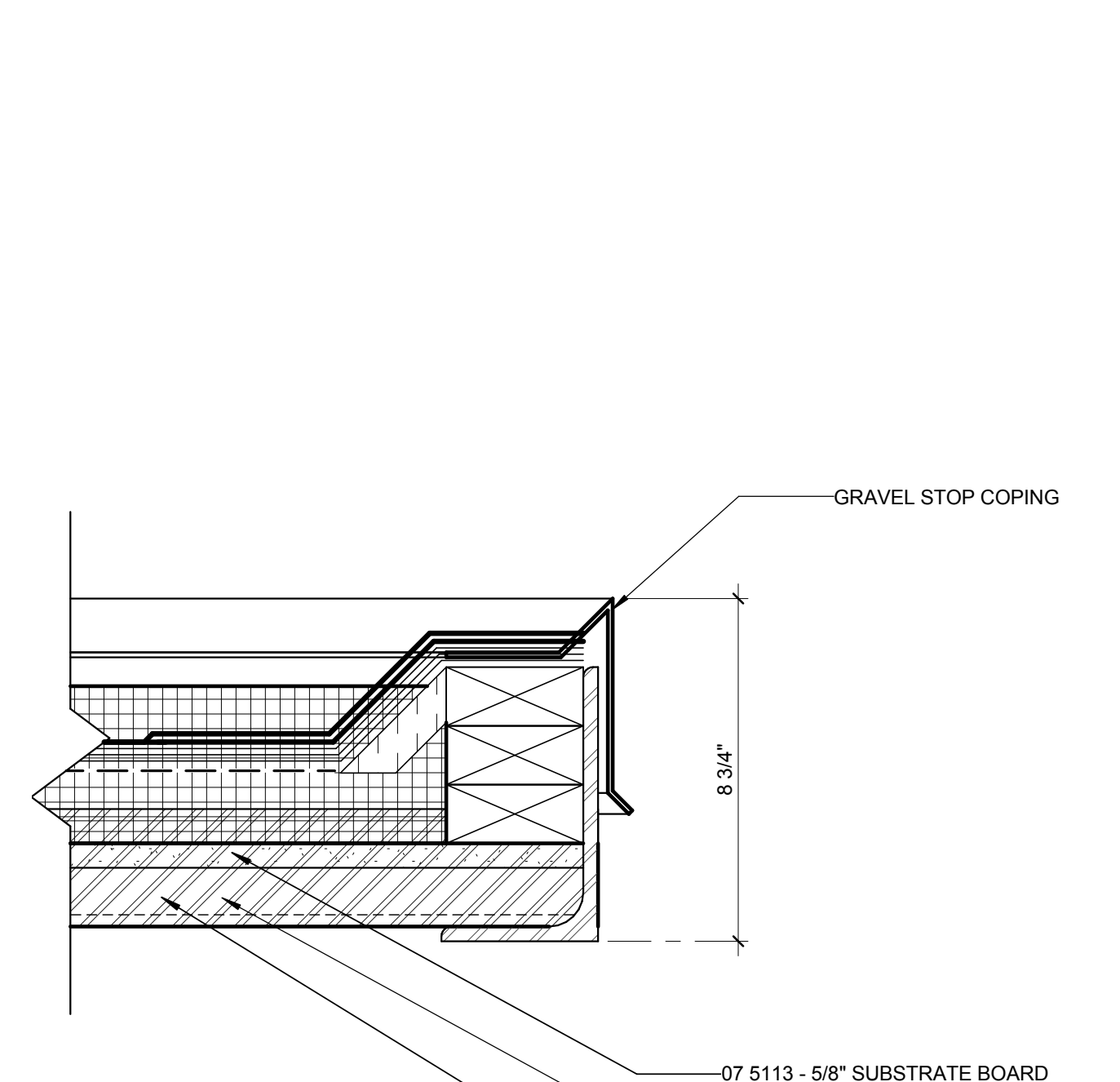
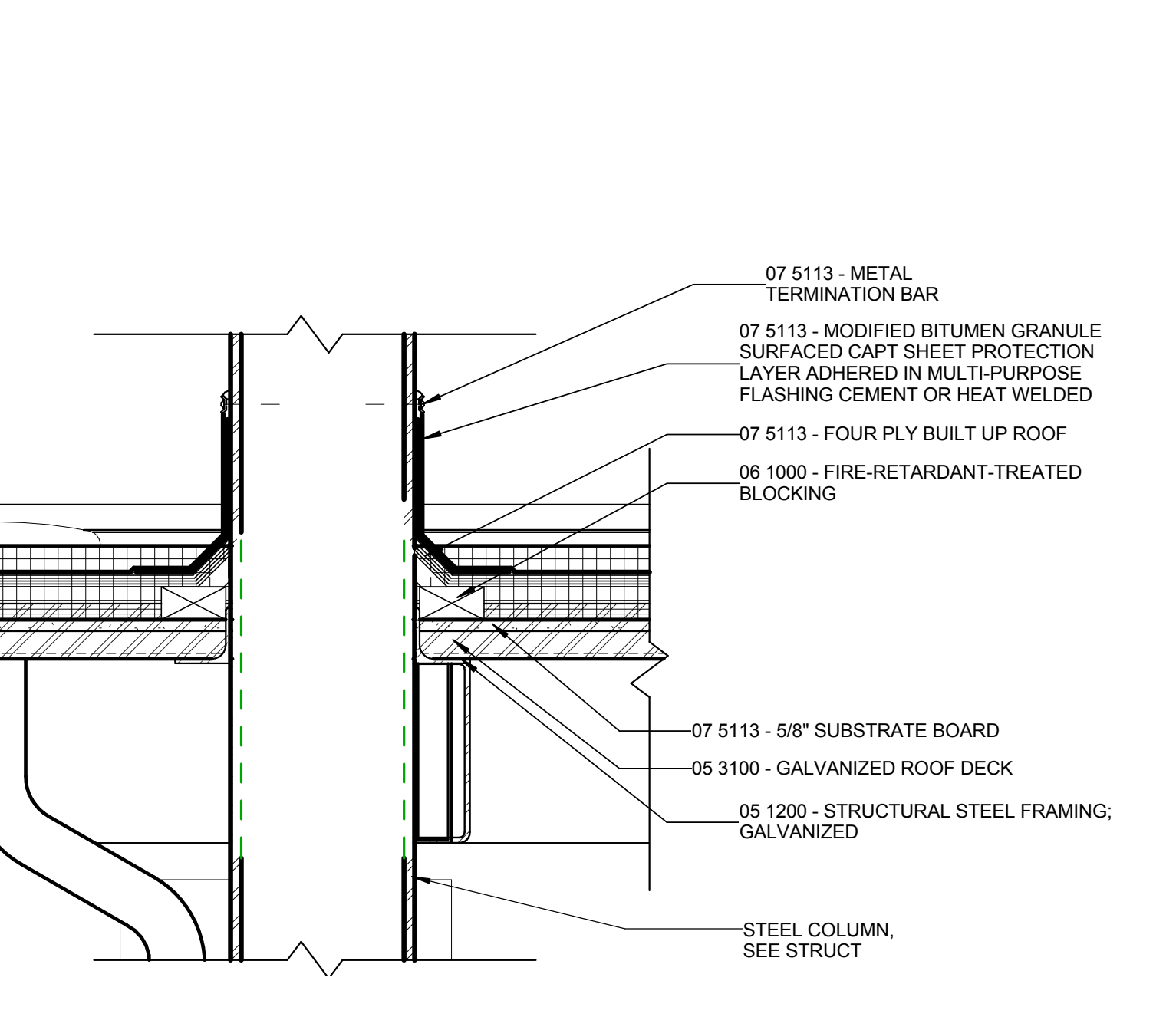
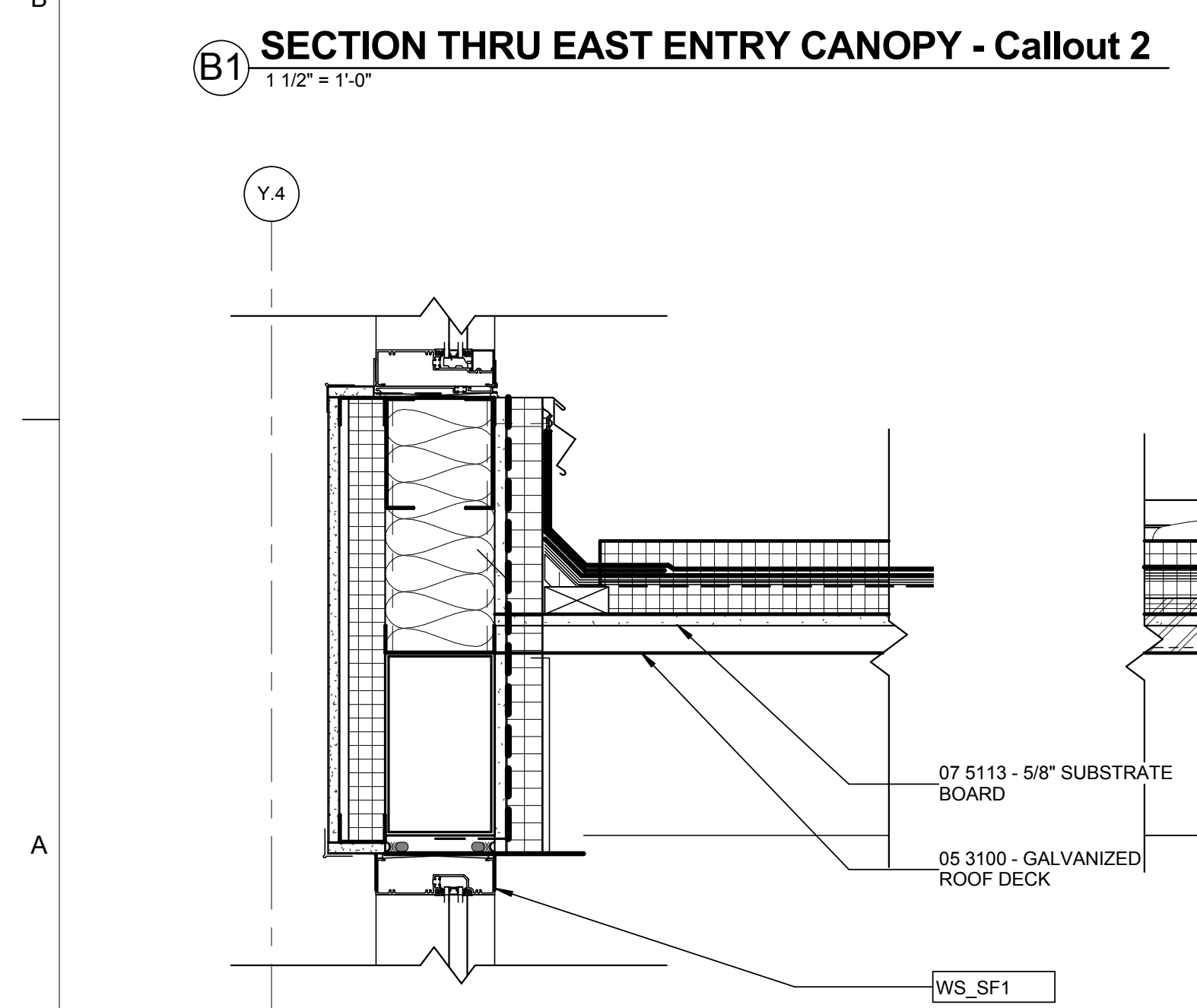
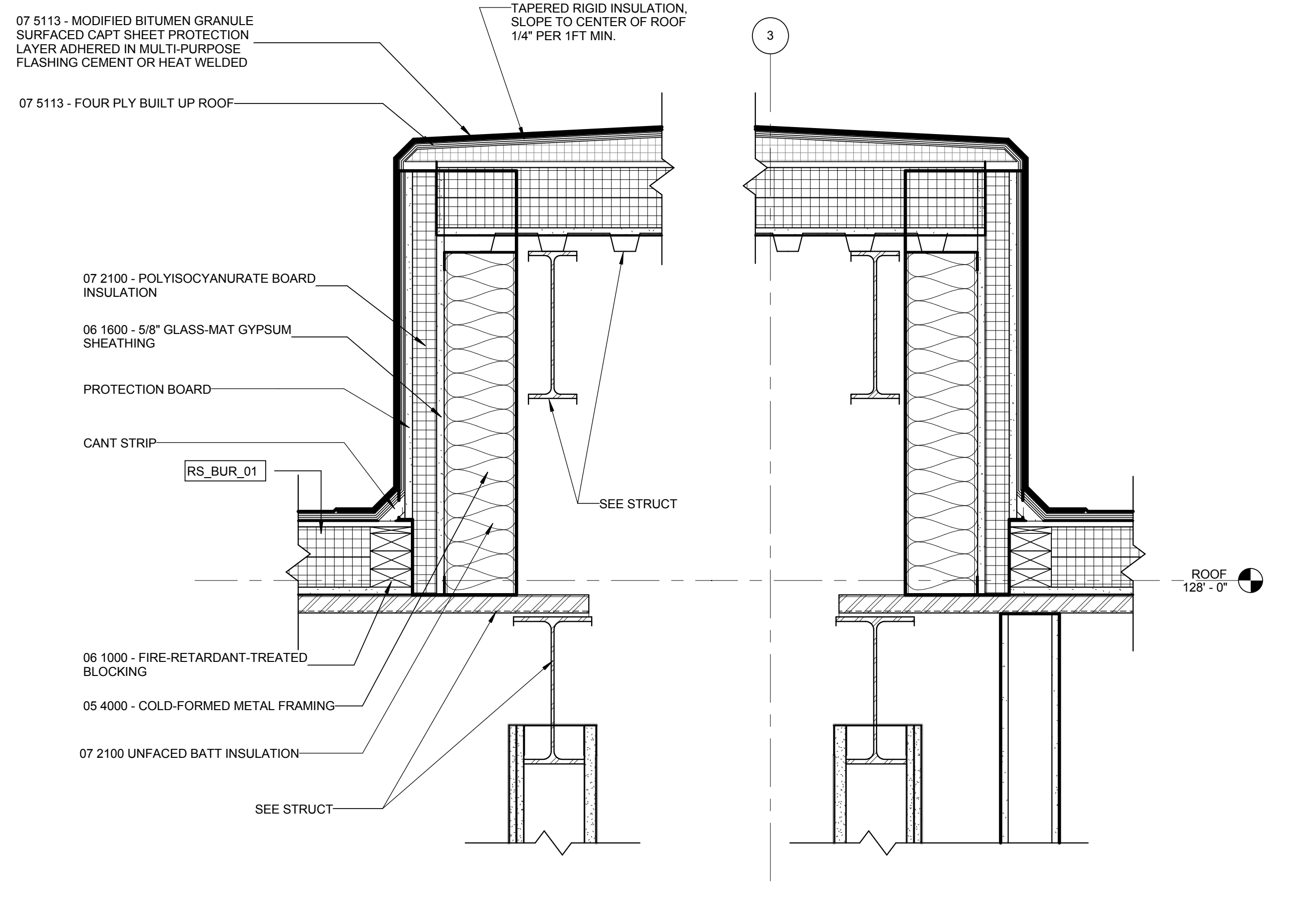
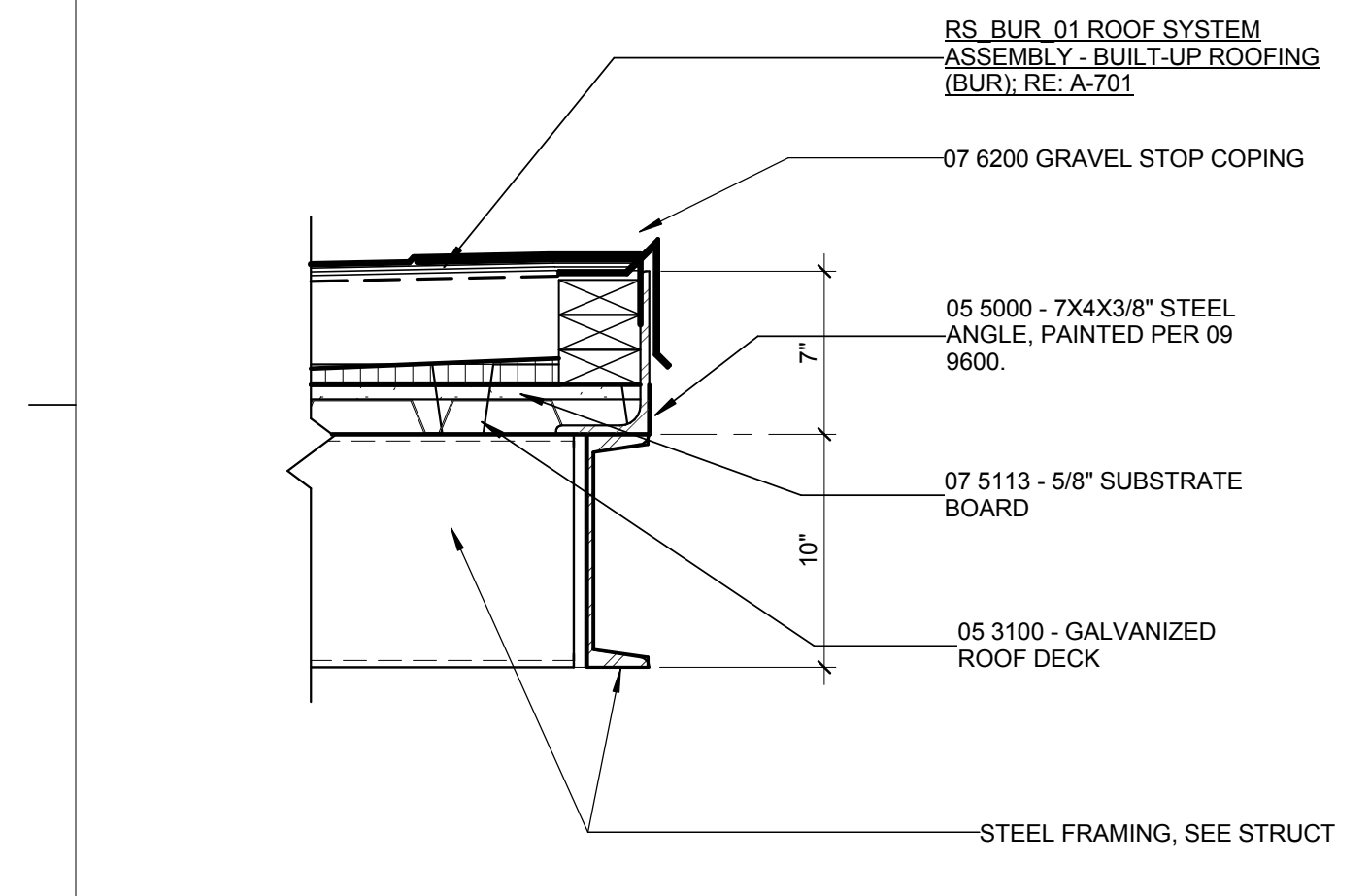
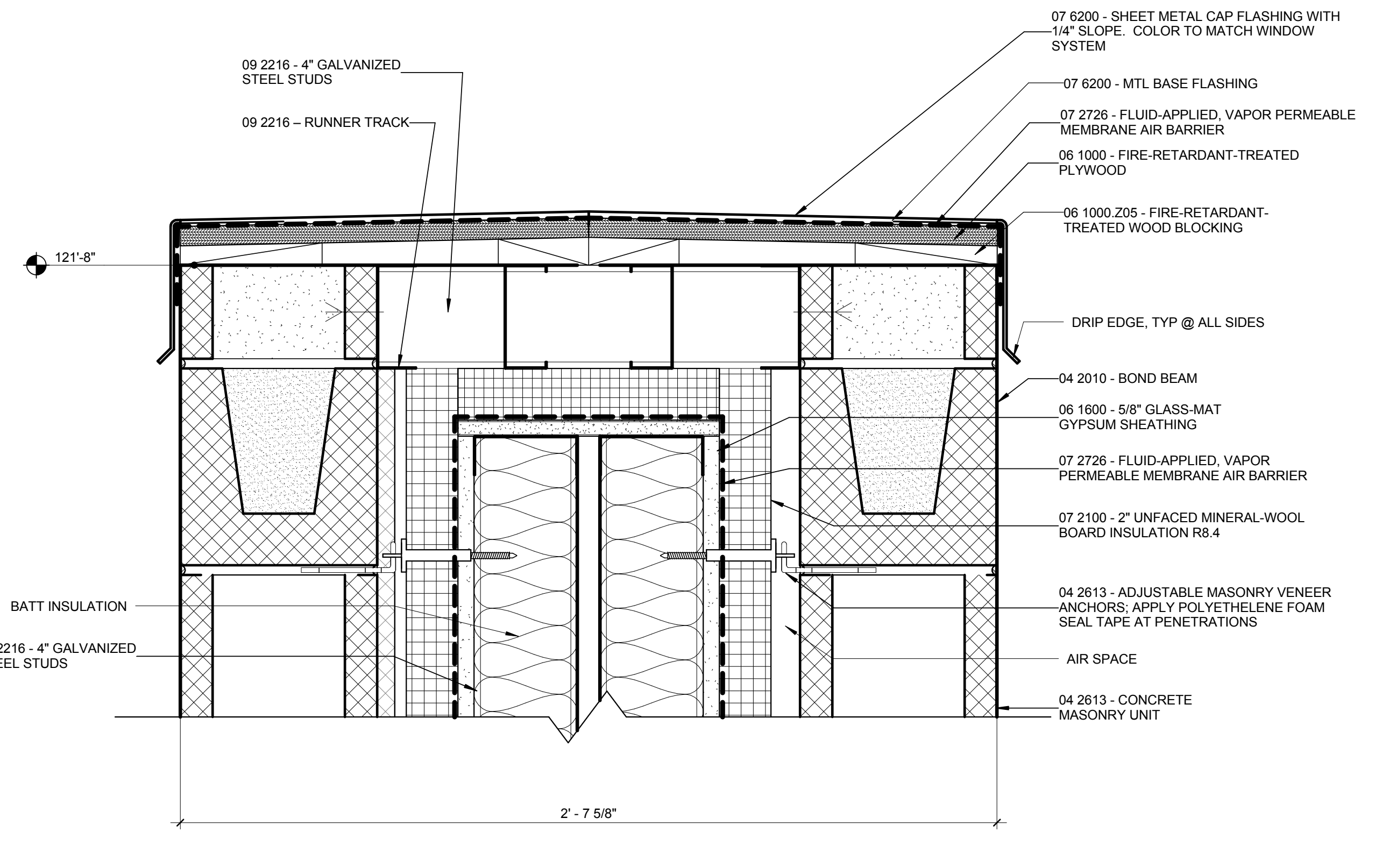
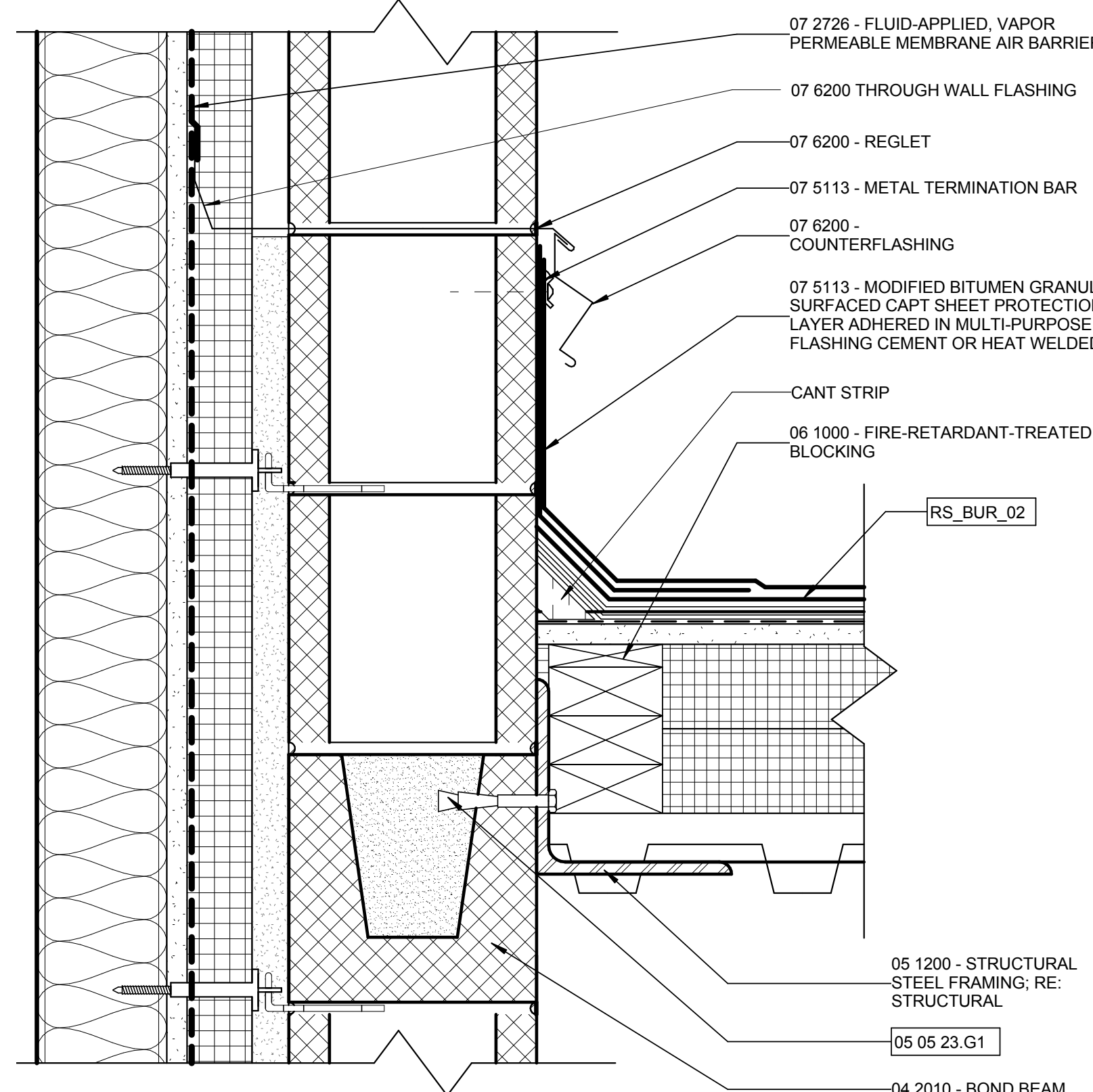
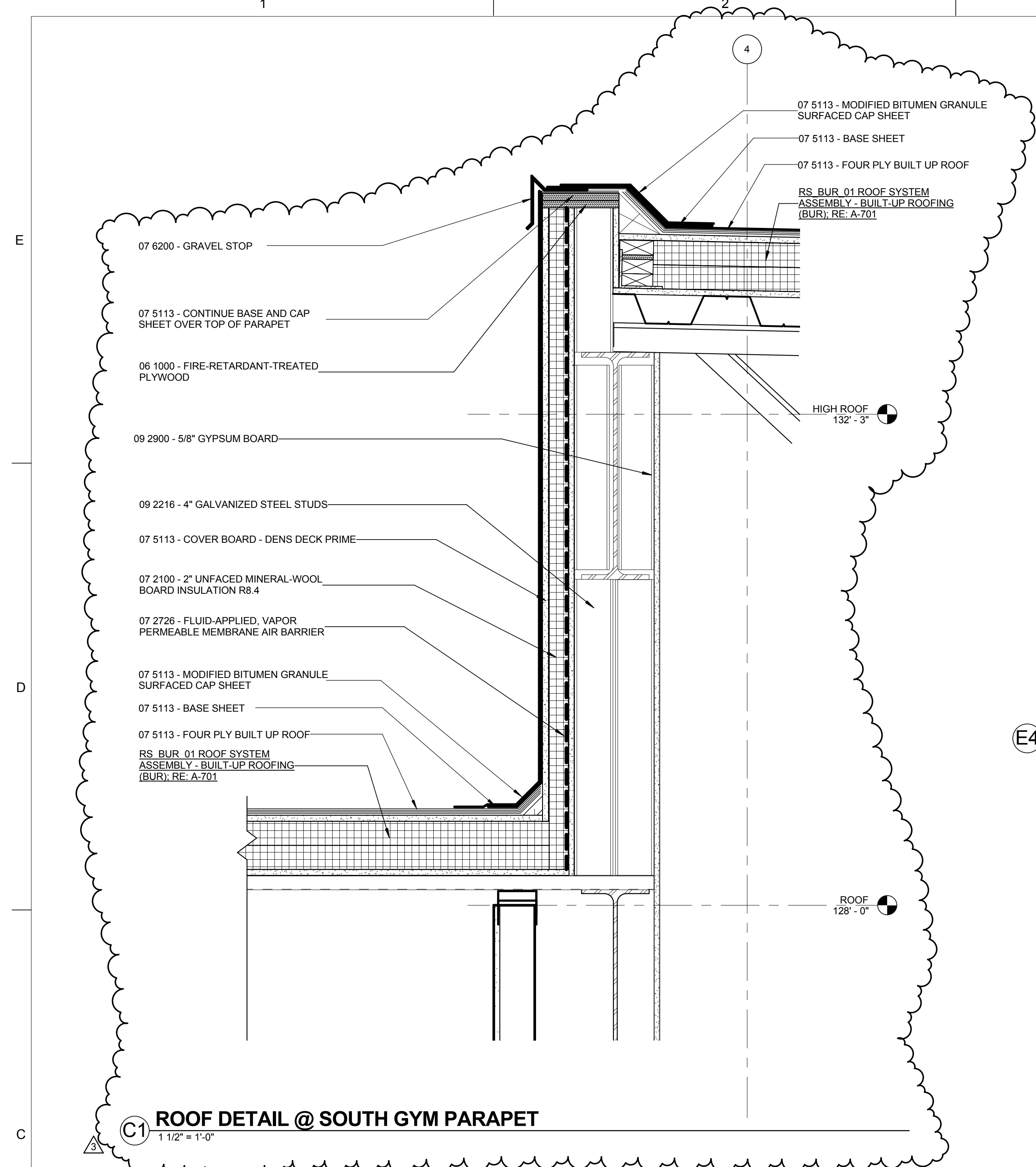
Sheet Title:

**EXTERIOR
DETAILS -
SECTION,
PARAPET**

CONSTRUCTION DOCUMENTS
Nov 9, 2015
Sheet Number:

A-532

DPA Project: 15803.00



A1 WALL SECTION THRU EAST ENTRY - Callout 1
1 1/2" = 1'-0"

A2 WALL SECTION THRU EAST ENTRY - Callout 2
1 1/2" = 1'-0"

A3 WALL SECTION THRU EAST ENTRY - Callout 3
3" = 1'-0"

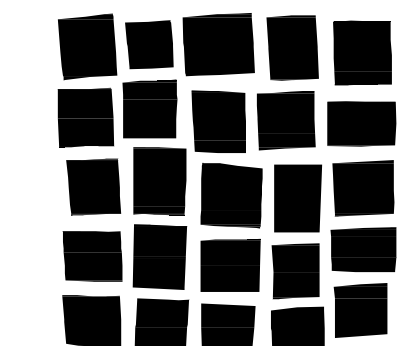
A4 SECTION THRU EAST ENTRY CANOPY - Callout 1
1 1/2" = 1'-0"

2.2 STRUCTURED-POLYCARBONATE-PANEL ASSEMBLIES

- A. Structured-Polycarbonate-Panel Assemblies: Translucent assemblies that are supported by aluminum framing and glazed with structured-polycarbonate panels.
1. Basis-of-Design Product: Subject to compliance with requirements, **provide Rodeca 50 mm Translucent Panel, or equal product by one of the following:**
 - a. Rodeca Translucent Building Elements: 50mm Translucent Panel Product
 - b. **EXTECH/Exterior Technologies, Inc: Interconnecting Polycarbonate Wall System - 40 mm. Model 3440. (Addendum 02)**
 - c. **Gallina USA, LLC / Crystal Structures: Arco Plus 547 40 mm (Addendum 02)**
 - d. **AIA Industries: AIA Eco-Wall 2560 50 mm - Color: Opal. (Addendum 03)**
 - e. **CPI Daylighting: Quadwall System (Addendum 03)**

2.3 STRUCTURED-POLYCARBONATE PANELS

- A. Structured-Polycarbonate Panels: Translucent, extruded-polycarbonate sheet with multiwall cellular cross section that provides isolated airspaces and that is coextruded with a UV-protective layer.
- B. Panel Thickness: Nominal 50 mm.
- C. UV Resistance: On outer surface.
- D. Color: Translucent Ice White.
- E. Panel Performance:
1. Plastic Self-Ignition Temperature: 650 deg F or more according to ASTM D 1929.
 2. Smoke-Developed Index: 450 or less according to ASTM E 84, or 75 or less according to ASTM D 2843.
 3. Combustibility Classification: **Class CC1 based on testing according to ASTM D 635 (Addendum 02).**
 4. Interior Finish Classification: Class A based on testing according to ASTM E 84.
 5. Color Change: Not more than 3.0 units Delta E, when measured according to ASTM D 2244, after outdoor weathering compliant with procedures in ASTM D 1435.
 - a. Outdoor Weathering Conditions: 60 months in Arizona or 120 months in a moderate North American climate.
 6. Impact Resistance: No failure at impact of 200 ft. x lbf according to freefalling-ball impact test using a 3-1/2-inch- diameter, 6.3-lb ball.
 7. Haze Factor: Greater than 90 percent when tested according to ASTM D 1003.



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RMH Group project number 15231

Consultant

SERVICE LOAD ANALYSIS PER SQUARE FOOT									
JOB NAME: RRCC REC CENTER									
NAME: MDP									
VOLTAGE: 120/208 V, 3PH, 4W									
GROSS SQUARE FEET: 35818 SF									
586 AMP REQUIRED CAPACITY = 402 kW @ 83% PF = 487 kVA & 13.6 VA/SF REQUIRED									
800 AMP ACTUAL CAPACITY = 549 kW @ 83% PF = 665 kVA & 18.6 VA/SF ACTUAL									
NEC DEMAND LOAD SUMMARY					VA/SF LOAD SUMMARY				
LOAD TYPE	kW	CONNECTED FACT	DEMAND kVA	CALCULATED FACTOR	LOAD	CONNECTED VA/SF	LOAD	CALCULATED VA/SF	DEMAND LOAD
LIGHTING	0.0	@ 100%	= 0.0	@ 125%	= 0.0 kVA	0.8	VA/SF	0.9	VA/SF
INCANDESCENT	0.0	@ 100%	= 0.0	@ 125%	= 0.0 kVA				
INDUCTIVE LTG	25.7	@ 95%	= 27.0	@ 125%	= 33.8 kVA				
RECEPTACLES	9.5	@ 95%	= 10.0	@ 100%	= 10.0 kVA	0.9	VA/SF	0.6	VA/SF
FIRST 10 kVA	21.7	@ 95%	= 22.8	@ 50%	= 11.4 kVA				
REMAINDER									
MOTORS	173	@ 80%	= 217	@ 125%	= 271 kVA	9.6	VA/SF	11.1	VA/SF
LARGEST									
REMAINDER	101	@ 80%	= 127	@ 100%	= 127 kVA				
APPLIANCES	12.6	@ 80%	= 15.7	@ 100%	= 15.7 kVA	0.4	VA/SF	0.4	VA/SF
HEAT	4.4	@ 100%	= 4.4	@ 125%	= 5.5 kVA	0.1	VA/SF	0.2	VA/SF
COMPUTER	2.4	@ 95%	= 2.5	@ 100%	= 2.5 kVA	0.1	VA/SF	0.1	VA/SF
OTHER	8.9	@ 85%	= 10.5	@ 100%	= 10.5 kVA	0.3	VA/SF	0.3	VA/SF
NONCONCIDENT	0.0	@ 95%	= 0.0	@ 0%	= 0.0 kVA	0.0	VA/SF	-	VA/SF
PEAK LOAD	0.0	@ 90%	= 0.0	@ 125%	= 0.0 kVA	0.0	VA/SF	0.0	VA/SF
0 % SPARE	0.0	@ 90%	= 0.0	@ 100%	= 0.0 kVA	0.0	VA/SF	0.0	VA/SF
TOTAL	360	kW	83%	436	kVA	4.87	VA/SF	13.6	VA/SF

FEEDER SCHEDULE		
KEY	CONDUIT & CONDUCTORS	REMARKS
RIAS	1-1/4" C-5M	NOTE 5
12SA3G	1-1/2" C-3#10, 1#6G	
12SA4G	2" C-4#10, 1#6G	
70A3SM	1-1/4" C-3#4, 1#6G	NOTE 6
22SA3G	2" C-3#10, 1#6G	
22SA4G	2-1/2" C-4#10, 1#6G	
22SA4BJ	2-1/2" C-4#10, 1#6G	NOTE 2
400A4G	2 1/2" C-4#10, 1#6G	
310A3SM	2-1/2" C-3#6, 1#6G	NOTE 6
F800A4BJ	3 1/2" C-4#30, 1#20G	NOTE 2, 7
4G	3/4" C-1#4G	
6G	3/4" C-1#6G	
30G	3/4" C-1#30G	

- SCHEDULE NOTES:**
- THE NOMINAL CONDUCTOR AMPACITIES AND CONDUIT SIZES IN THIS FEEDER SCHEDULE ARE BASED ON COPPER CONDUCTORS, 90 DEGREE CENTIGRADE TERMINATIONS AND TYPE THW CONDUCTORS FOR SIZES #14 TO #1, AND 75 DEGREE CENTIGRADE TERMINATIONS AND TYPE THW CONDUCTORS FOR SIZES #10 AND LARGER. UNLESS NOTED OTHERWISE, CONDUIT IS SIZED BASED ON TYPE EMT CONDUIT. USE OF OTHER CONDUIT AND CONDUCTOR TYPES REQUIRES RE-EVALUATION OF CONDUCTOR AMPACITY AND CONDUIT SIZE EVALUATION AND RESIZING OF CONDUIT.
 - FEEDERS MARKED WITH AN "BJ" HAVE AN EQUIPMENT BONDING JUMPER. PROVIDE PROPERLY SIZED TERMINATIONS.
 - THE NEUTRAL OF THE INDICATED FEEDER CONSISTS OF TWO CONDUCTORS IN EACH RACEWAY TERMINATED TO THE SAME LUG, AND IS 200% OF THE AMPACITY OF THE INDIVIDUAL PHASE CONDUCTORS. MAKE CAREFUL SELECTION OF LUG AMPACITY AND NEUTRAL BUS SIZE DUE TO HARMONIC CURRENTS CARRIED BY THE NEUTRAL. THE FEEDER SIZES ARE BASED ON 75 DEGREE CENTIGRADE TEMPERATURE RATINGS (TYPE THHN CONDUCTORS, AND TERMINATIONS).
 - FEEDERS MARKED WITH AN "G" HAVE AN EQUIPMENT GROUNDING CONDUCTOR AND AN ISOLATED EQUIPMENT GROUNDING CONDUCTOR. PROVIDE PROPERLY SIZED TERMINATIONS.
 - FEEDERS MARKED WITH AN "AS" HAVE A FULL SIZE GROUND CONDUCTOR. PROVIDE PROPERLY SIZED TERMINATIONS.
 - FEEDER KEYS MARKED WITH A "SM" ARE FOR SINGLE MOTOR BRANCH CIRCUITS. FEEDERS SERVING MOTOR CIRCUITS EQUIPPED WITH ADJUSTABLE SPEED DRIVES SHALL BE PROVIDED WITH XHW-2 OR XLP-6 SHIELDED CABLE ASSEMBLIES SUITABLE FOR VFD APPLICATIONS.
 - FEEDER KEYS MARKED WITH A "P" ARE SIZED BASED ON TYPE SCHEDULE 40 PVC CONDUIT. USE OF OTHER CONDUIT TYPES REQUIRES RESIZING OF CONDUIT.

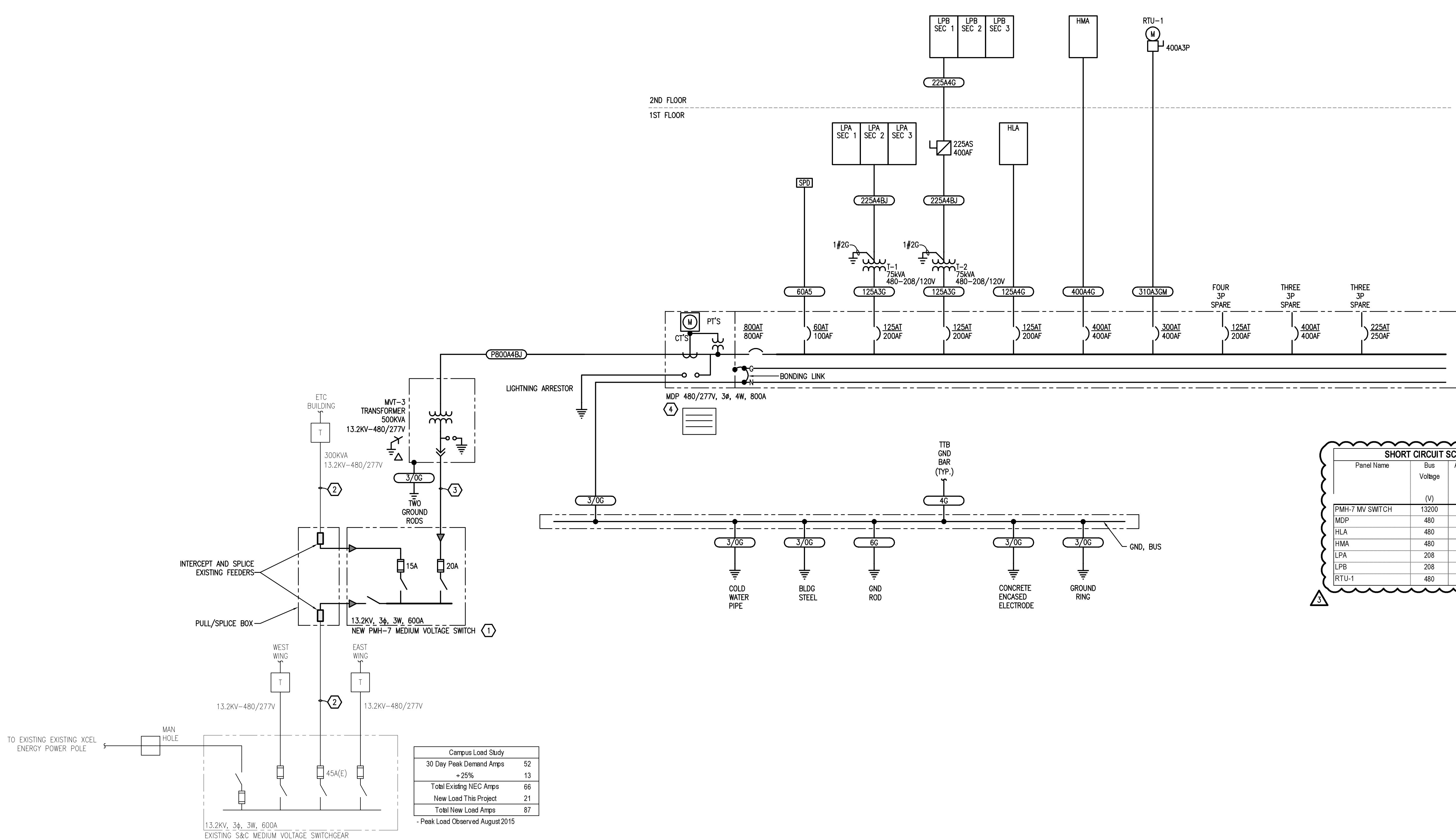
SHORT CIRCUIT SCHEDULE			
Panel Name	Bus Voltage (V)	Available Fault Current (A)	Minimum Short Circuit Bracing Required (AIC)
PMH-7 MV SWITCH	13200	8753	10000
RADP	480	30620	50000
HLA	480	27913	35000
HMA	480	25435	35000
LPA	208	5737	10000
LPB	208	5424	10000
RTU-1	480	33828	50000

SHEET NOTES

- LIGHT LINEWEIGHT INDICATES EXISTING, DARK LINEWEIGHT INDICATES NEW WORK.

KEY NOTES

- INTERCEPT EXISTING UNDERGROUND FEEDER AND PROVIDE NEW S&C 15kV PMH-7 PAD-MOUNTED SWITCH, 600 AMP CONTINUOUS WITH 200 AMP FUSE COMPARTMENTS. CATALOG NUMBER 25132R-C2E3E167 WITH KEY INTERLOCKS FOR FUSE COMPARTMENTS. FUSE STORAGE HOLDER IN COMPARTMENT 1 AND INNER BARRIER PANELS FOR REAR ENTRY. PROVIDE S&C SML-20 STYLE FUSES.
- EXISTING FEEDERS ARE COPPER XLPE ESSEX 4/0 MW-90 CABLE.
- NEW FEEDERS SHALL BE 3#2 15kV, MW-105 SHIELDED, 133% & 1#6 600V THWN GROUND IN 4" CONDUIT.
- PROVIDE PLAQUE DENOTING LOCATION OF ALL SERVICES, FEEDERS, AND BRANCH CIRCUITS SUPPLYING THE BUILDING, PER NEC 225.37 AND 230.2(E).



1 ELECTRICAL ONE-LINE DIAGRAM
SCALE: NONE

Issue/Revisions	Date	No.
ADDENDUM 1	11/20/15	1
ADDENDUM 2	12/4/15	2
ADDENDUM 3	12/8/15	3

Project Information

**STUDENT RECREATION CENTER
RED ROCKS COMMUNITY COLLEGE**
13300 W. 6th Avenue
Lakewood, Colorado 80228

Sheet Information

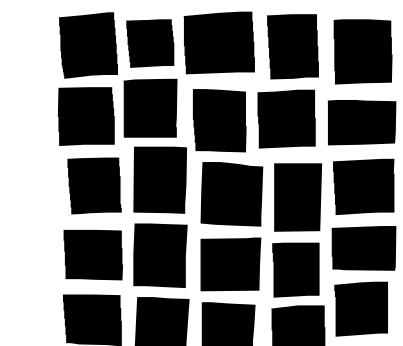
Sheet Title:
**ELECTRICAL ONE-LINE
DIAGRAM**

CONSTRUCTION DOCUMENTS
Nov. 9, 2015
Sheet Number:

E-002

DPA Project: 15803.00

Created on 12/8/2015
File Path: H:\Users\19221\1\000 Files\15031-E002.dwg
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Plotted on 12/9/2015



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1 ELECTRICAL LIGHTING SITE PLAN
SCALE: 1" = 40'-0"

SHEET NOTES

1. LOCATE EXISTING CIRCUITS AND MAINTAIN THEM DURING CONSTRUCTION. ALL SITE LIGHTING IS INTENDED TO BE ON DURING CONSTRUCTION.

KEY NOTES

- 1 REMOVE EXISTING BOLLARD AT THIS LOCATION AND REMOVE EXISTING ANCHOR BOLTS FROM CONCRETE BASE. DRILL HOLES FOR NEW BOLLARD ANCHOR BOLTS INTO EXISTING CONCRETE BASE AND EPOXY THEM INTO PLACE.
- 2 EXISTING LIGHT POLE TO REMAIN.
- 3 PROVIDE NEW CONCRETE BASE FOR BOLLARD AT THIS LOCATION.

Project Information

**STUDENT RECREATION CENTER
RED ROCKS COMMUNITY COLLEGE**
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Lakewood, Colorado 80228

Sheet Information

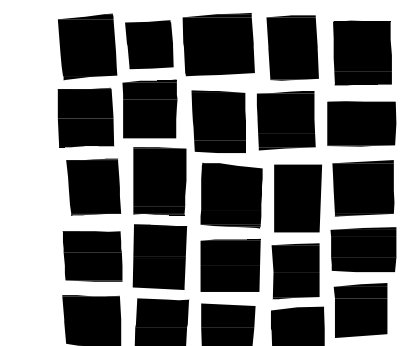
Sheet Title:
SITE LIGHTING PLAN

CONSTRUCTION DOCUMENTS
Nov. 9, 2015
Sheet Number:

E-004

DPA Project: 15803.00

12/20/15 10:02:30 AM



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RMH Group project number 0 015
15231

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Issue/Revisions Date No.

ADDENDUM 1	11/20/15	1
ADDENDUM 2	12/14/15	2
ADDENDUM 3	12/18/15	3

Project Information

STUDENT RECREATION CENTER
RED ROCKS COMMUNITY COLLEGE
13300 W. 6th Avenue
Lakewood, Colorado 80228

Sheet Information

Sheet Title:
ELECTRICAL SCHEDULES

CONSTRUCTION DOCUMENTS
Nov. 9, 2015

Sheet Number:
E-603

DPA Project: 15803.00

PANEL: LPA SEC 1		VOLTAGE: 120/208 V.		TYPE: PANELBOARD	
FED FROM: MDP		3 PH 4 W 60 HZ		MOUNTING: SEE PLAN	
225 AMP MAIN RATED AT 80%		NEUTRAL BUS: YES		ISOLATED GND: NO	
N/A AMP MAIN LUGS		GROUND BUS: YES		NOTE: 1. []	
(SEE SPECIFICATIONS) BUSING		2. []		3. []	
(SEE FAULT SCHEDULE) SYMMETRICAL RMS AMPS		3. []		4. []	
NOTE	DESCRIPTION	CCT BREAKER VA AMP / P	PCTPH CCT AMP / P	DESCRIPTION	NOTE
	RECEPT IT RM 130	1040	20 / 1 A 2	RECEPT TV LOUNGER RM 130	
	RECEPT CLIMBING DESK	500	20 / 1 3 B 4	RECEPT IT RM 203	
	HAIR DRYER WMS LR RM 140	1500	20 / 1 5 C 6	RECEPT HALL AMO 24.205.206	
	HAIR DRYER WMS LR RM 140	1500	20 / 1 7 A 8	RECEPT RESTROOM 207.208	
	HAIR DRYER WMS LR RM 140	1500	20 / 1 9 B 10	RECEPT TV RM 209	
	RECEPT FAMILY LR RM 136.139	360	20 / 1 11 C 12	RECEPT TV RM 209	
	RECEPT WMS LR RM 135	1500	20 / 1 13 A 14	RECEPT TRAINING RM 211	
	HAIR DRYER WMS LR RM 135	1500	20 / 1 15 B 16	RECEPT TRAINING RM 211	
	HAIR DRYER WMS LR RM 135	1500	20 / 1 17 C 18	RECEPT TRAINING RM 211	
	RECEPT WMS LR RM 135	1500	20 / 1 19 A 20	RECEPT TRAINING RM 211	
	RECEPT ELEC RM 134	180	20 / 1 21 B 22	RECEPT TRAINING RM 211	
	RHP-2	1127	20 / 1 23 C 24	RECEPT TRAINING RM 211	
	RHP-3	1127	20 / 1 25 A 26	RECEPT TRAINING RM 211	
	RHP-4	1127	20 / 1 27 B 28	RECEPT TRAINING RM 211	
	RHP-5	1127	20 / 1 29 C 30	RECEPT TRAINING RM 211	
	RHP-6	1127	20 / 1 31 A 32	RECEPT TRAINING RM 211	
	RHP-7	1127	20 / 1 33 B 34	RECEPT TRAINING RM 211	
	RHP-8	1127	20 / 1 35 C 36	RECEPT TRAINING RM 211	
	RHP-9	1127	20 / 1 37 A 38	RECEPT TRAINING RM 211	
	RHP-10	1127	20 / 1 39 B 40	RECEPT TRAINING RM 211	
	RHP-11	1127	20 / 1 41 C 42	RECEPT TRAINING RM 211	
	RHP-12	1127	20 / 1 43 A 44	RECEPT TRAINING RM 211	
	RHP-13	1127	20 / 1 45 B 46	RECEPT TRAINING RM 211	
	RHP-14	1127	20 / 1 47 C 48	RECEPT TRAINING RM 211	
	RHP-15	1127	20 / 1 49 A 50	RECEPT TRAINING RM 211	
	RHP-16	1127	20 / 1 51 B 52	RECEPT TRAINING RM 211	
	RHP-17	1127	20 / 1 53 C 54	RECEPT TRAINING RM 211	
	RHP-18	1127	20 / 1 55 A 56	RECEPT TRAINING RM 211	
	RHP-19	1127	20 / 1 57 B 58	RECEPT TRAINING RM 211	
	RHP-20	1127	20 / 1 59 C 60	RECEPT TRAINING RM 211	
	RHP-21	1127	20 / 1 61 A 62	RECEPT TRAINING RM 211	
	RHP-22	1127	20 / 1 63 B 64	RECEPT TRAINING RM 211	
	RHP-23	1127	20 / 1 65 C 66	RECEPT TRAINING RM 211	
	RHP-24	1127	20 / 1 67 A 68	RECEPT TRAINING RM 211	
	RHP-25	1127	20 / 1 69 B 70	RECEPT TRAINING RM 211	
	RHP-26	1127	20 / 1 71 C 72	RECEPT TRAINING RM 211	
	RHP-27	1127	20 / 1 73 A 74	RECEPT TRAINING RM 211	
	RHP-28	1127	20 / 1 75 B 76	RECEPT TRAINING RM 211	
	RHP-29	1127	20 / 1 77 C 78	RECEPT TRAINING RM 211	
	RHP-30	1127	20 / 1 79 A 80	RECEPT TRAINING RM 211	
	RHP-31	1127	20 / 1 81 B 82	RECEPT TRAINING RM 211	
	RHP-32	1127	20 / 1 83 C 84	RECEPT TRAINING RM 211	

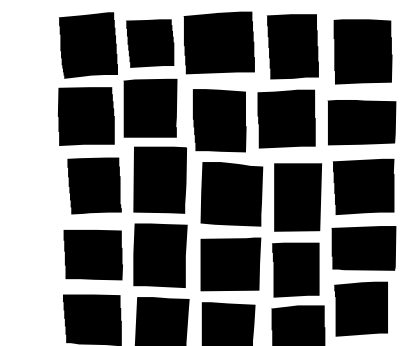
PANEL: LPA SEC 2		VOLTAGE: 120/208 V.		TYPE: PANELBOARD	
FED FROM: MDP		3 PH 4 W 60 HZ		MOUNTING: SEE PLAN	
N/A AMP MAIN RATED AT 80%		NEUTRAL BUS: YES		ISOLATED GND: NO	
MLO AMP MAIN LUGS		GROUND BUS: YES		NOTE: 1. []	
(SEE SPECIFICATIONS) BUSING		2. []		3. []	
(SEE FAULT SCHEDULE) SYMMETRICAL RMS AMPS		3. []		4. []	
NOTE	DESCRIPTION	CCT BREAKER VA AMP / P	PCTPH CCT AMP / P	DESCRIPTION	NOTE
	RECEPT IT RM 133	360	20 / 1 43 A 44	ACCESS CONTROL DESK	
	L6-30 RECEPT RM 133	180	20 / 1 45 B 46	RECEPT PT OFFICE 107	
	L6-30 RECEPT RM 133	180	20 / 1 47 C 48	RECEPT PT OFFICE 107	
	L6-30 RECEPT RM 133	180	20 / 1 49 A 50	RECEPT PT OFFICE 107	
	L6-30 RECEPT RM 133	180	20 / 1 51 B 52	RECEPT PT OFFICE 107	
	VENDING MACHINE	1200	20 / 1 53 C 54	RECEPT RM 102.103	
	VENDING MACHINE	1200	20 / 1 55 A 56	RECEPT RM 102.103	
	SP-1	1127	20 / 1 57 B 58	RECEPT RM 102.103	
	UH-2	1437	20 / 1 59 C 60	RECEPT RM 102.103	
	UH-1	16	15 / 1 61 A 62	RECEPT RM 102.103	
	UH-3	1437	20 / 1 63 B 64	RECEPT RM 102.103	
	CU-1	115	15 / 1 65 C 66	RECEPT RM 102.103	
	BASKETBALL LIFT MOTOR	790	15 / 1 67 A 68	RECEPT RM 102.103	
	BASKETBALL LIFT MOTOR	790	15 / 1 69 B 70	RECEPT RM 102.103	
	BASKETBALL LIFT MOTOR	790	15 / 1 71 C 72	RECEPT RM 102.103	
	BASKETBALL LIFT MOTOR	790	15 / 1 73 A 74	RECEPT RM 102.103	
	BASKETBALL LIFT MOTOR	790	15 / 1 75 B 76	RECEPT RM 102.103	
	BASKETBALL LIFT MOTOR	790	15 / 1 77 C 78	RECEPT RM 102.103	
	BASKETBALL LIFT MOTOR	790	15 / 1 79 A 80	RECEPT RM 102.103	
	BASKETBALL LIFT MOTOR	790	15 / 1 81 B 82	RECEPT RM 102.103	
	BASKETBALL LIFT MOTOR	790	15 / 1 83 C 84	RECEPT RM 102.103	

PANEL: LPA SEC 3		VOLTAGE: 120/208 V.		TYPE: PANELBOARD	
FED FROM: MDP		3 PH 4 W 60 HZ		MOUNTING: SEE PLAN	
N/A AMP MAIN RATED AT 80%		NEUTRAL BUS: YES		ISOLATED GND: NO	
MLO AMP MAIN LUGS		GROUND BUS: YES		NOTE: 1. []	
(SEE SPECIFICATIONS) BUSING		2. []		3. []	
(SEE FAULT SCHEDULE) SYMMETRICAL RMS AMPS		3. []		4. []	
NOTE	DESCRIPTION	CCT BREAKER VA AMP / P	PCTPH CCT AMP / P	DESCRIPTION	NOTE
	RECEPT IT RM 133	360	20 / 1 85 A 86	RECEPT IT RM 133	
	CU-1	2500	20 / 1 87 B 88	RECEPT IT RM 133	
	SP-2	2500	20 / 1 89 C 90	RECEPT IT RM 133	
	SP-2	854	15 / 1 91 A 92	RECEPT IT RM 133	
	SP-2	854	15 / 1 93 B 94	RECEPT IT RM 133	
	SP-2	854	15 / 1 95 C 96	RECEPT IT RM 133	
	SP-2	854	15 / 1 97 A 98	RECEPT IT RM 133	
	SP-2	854	15 / 1 99 B 100	RECEPT IT RM 133	
	SP-2	854	15 / 1 101 C 102	RECEPT IT RM 133	
	SP-2	854	15 / 1 103 A 104	RECEPT IT RM 133	
	SP-2	854	15 / 1 105 B 106	RECEPT IT RM 133	
	SP-2	854	15 / 1 107 C 108	RECEPT IT RM 133	
	SP-2	854	15 / 1 109 A 110	RECEPT IT RM 133	
	SP-2	854	15 / 1 111 B 112	RECEPT IT RM 133	
	SP-2	854	15 / 1 113 C 114	RECEPT IT RM 133	
	SP-2	854	15 / 1 115 A 116	RECEPT IT RM 133	
	SP-2	854	15 / 1 117 B 118	RECEPT IT RM 133	
	SP-2	854	15 / 1 119 C 120	RECEPT IT RM 133	
	SP-2	854	15 / 1 121 A 122	RECEPT IT RM 133	
	SP-2	854	15 / 1 123 B 124	RECEPT IT RM 133	
	SP-2	854	15 / 1 125 C 126	RECEPT IT RM 133	

PANEL: LPB SEC 1		VOLTAGE: 120/208 V.		TYPE: PANELBOARD	
FED FROM: MDP		3 PH 4 W 60 HZ		MOUNTING: SEE PLAN	
225 AMP MAIN RATED AT 80%		NEUTRAL BUS: YES		ISOLATED GND: NO	
N/A AMP MAIN LUGS		GROUND BUS: YES		NOTE: 1. []	
(SEE SPECIFICATIONS) BUSING		2. []		3. []	
(SEE FAULT SCHEDULE) SYMMETRICAL RMS AMPS		3. []		4. []	
NOTE	DESCRIPTION	CCT BREAKER VA AMP / P	PCTPH CCT AMP / P	DESCRIPTION	NOTE
	FITNESS EQUIPMENT	1000	20 / 1 43 A 44	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	1000	20 / 1 45 B 46	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	1000	20 / 1 47 C 48	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	1000	20 / 1 49 A 50	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	1000	20 / 1 51 B 52	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	1000	20 / 1 53 C 54	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	360	20 / 1 55 A 56	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	360	20 / 1 57 B 58	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	360	20 / 1 59 C 60	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	360	20 / 1 61 A 62	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	360	20 / 1 63 B 64	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	360	20 / 1 65 C 66	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	360	20 / 1 67 A 68	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	360	20 / 1 69 B 70	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	360	20 / 1 71 C 72	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	360	20 / 1 73 A 74	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	360	20 / 1 75 B 76	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	360	20 / 1 77 C 78	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	360	20 / 1 79 A 80	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	360	20 / 1 81 B 82	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	360	20 / 1 83 C 84	FITNESS EQUIPMENT	

PANEL: LPB SEC 2		VOLTAGE: 120/208 V.		TYPE: PANELBOARD	
FED FROM: MDP		3 PH 4 W 60 HZ		MOUNTING: SEE PLAN	
225 AMP MAIN RATED AT 80%		NEUTRAL BUS: YES		ISOLATED GND: NO	
N/A AMP MAIN LUGS		GROUND BUS: YES		NOTE: 1. []	
(SEE SPECIFICATIONS) BUSING		2. []		3. []	
(SEE FAULT SCHEDULE) SYMMETRICAL RMS AMPS		3. []		4. []	
NOTE	DESCRIPTION	CCT BREAKER VA AMP / P	PCTPH CCT AMP / P	DESCRIPTION	NOTE
	FITNESS EQUIPMENT	1000	20 / 1 43 A 44	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	1000	20 / 1 45 B 46	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	1000	20 / 1 47 C 48	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	1000	20 / 1 49 A 50	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	1000	20 / 1 51 B 52	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	1000	20 / 1 53 C 54	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	360	20 / 1 55 A 56	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	360	20 / 1 57 B 58	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	360	20 / 1 59 C 60	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	360	20 / 1 61 A 62	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	360	20 / 1 63 B 64	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	360	20 / 1 65 C 66	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	360	20 / 1 67 A 68	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	360	20 / 1 69 B 70	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	360	20 / 1 71 C 72	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	360	20 / 1 73 A 74	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	360	20 / 1 75 B 76	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	360	20 / 1 77 C 78	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	360	20 / 1 79 A 80	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	360	20 / 1 81 B 82	FITNESS EQUIPMENT	
	FITNESS EQUIPMENT	360	20 / 1 83 C 84	FITNESS EQUIPMENT	

PANEL: LVD (E)		VOLTAGE: 120/208 V.		TYPE: PANELBOARD	
FED FROM: xxxx		3 PH 4 W 60 HZ		MOUNTING: SEE PLAN	
N/A AMP MAIN RATED AT 80%		NEUTRAL BUS: YES		ISOLATED GND: NO	
MLO AMP MAIN LUGS		GROUND BUS: YES		NOTE: 1. NEW CIRCUIT ON EXISTING BREAKER	
(SEE SPECIFICATIONS) BUSING		2. []		3. []	
(SEE FAULT SCHEDULE) SYMMETRICAL RMS AMPS		3. []		4. []	
NOTE	DESCRIPTION	CCT BREAKER VA AMP / P	PCTPH CCT AMP / P	DESCRIPTION	NOTE
	RM 1015	540	20 / 1 1 A 2	RECEPT IT RM 1015	
	RM 1015	400	20 / 1		



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Issue/Revisions	Date	No.
ADDENDUM 2	12/4/15	2
ADDENDUM 3	12/9/15	3

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Sheet Information

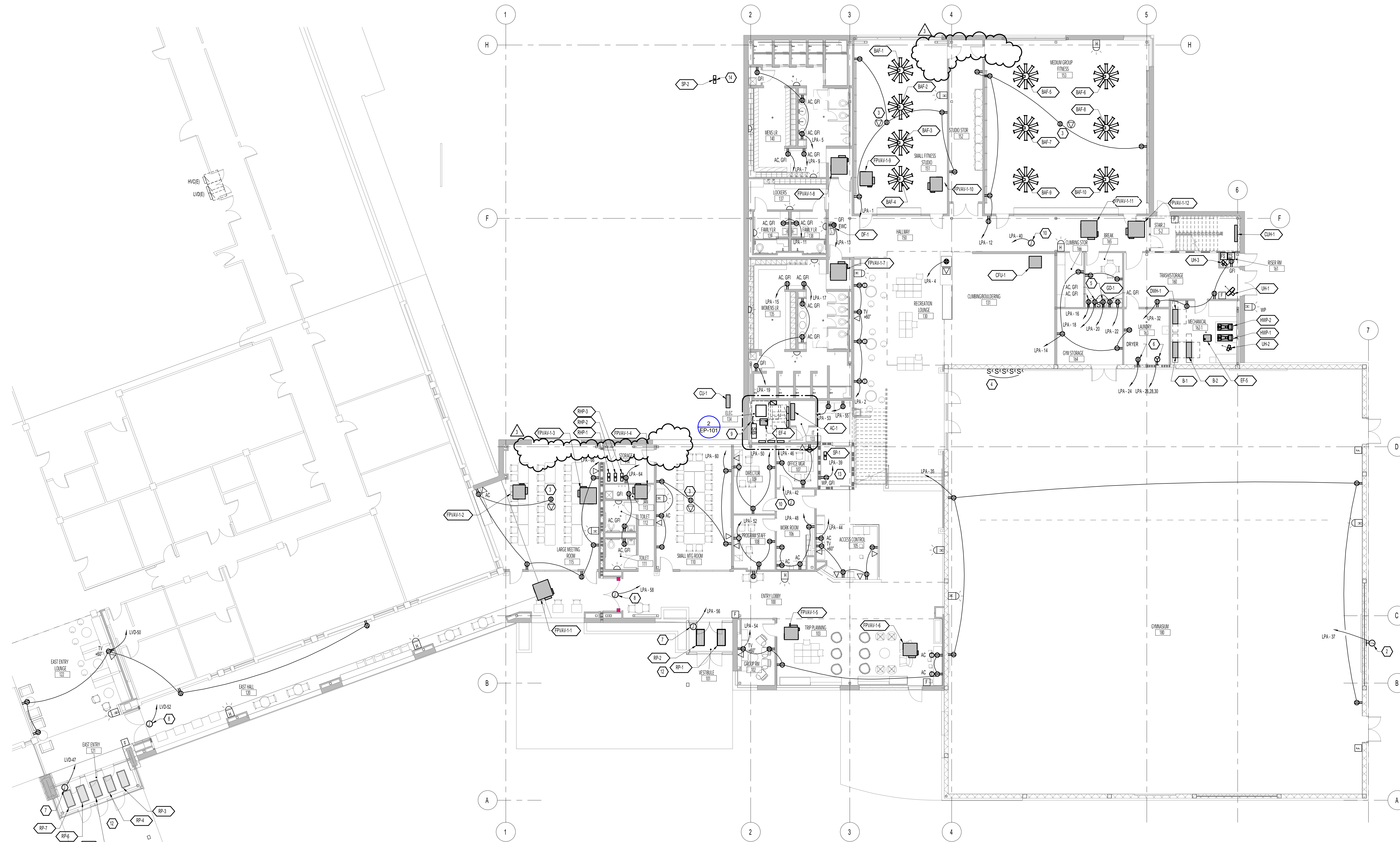
Sheet Title:
**ELECTRICAL
POWER 1ST
FLOOR PLAN**

CONSTRUCTION DOCUMENTS
Nov. 9, 2015
Sheet Number:

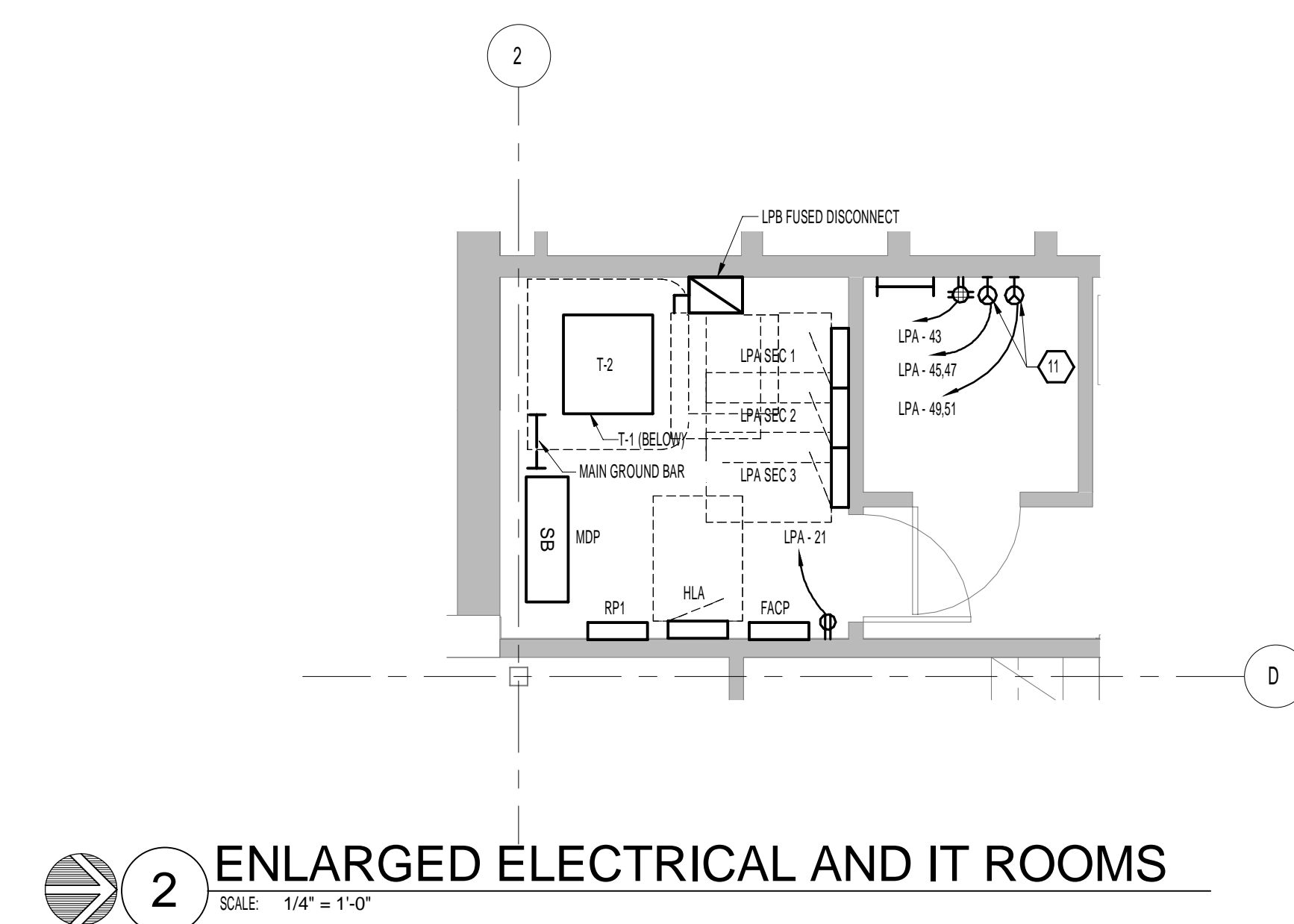
EP-101

DPA Project: 15803.00

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1 ELECTRICAL POWER 1ST FLOOR PLAN
SCALE: 3/32" = 1'-0"



2 ENLARGED ELECTRICAL AND IT ROOMS
SCALE: 1/4" = 1'-0"

SHEET NOTES

- THIS DRAWING DEPICTS ANTICIPATED QUANTITIES AND LOCATIONS OF FIRE ALARM SYSTEM DEVICES FOR A FULLY DETECTED BUILDING AND IS NOT INTENDED TO ILLUSTRATE A COMPLETE DESIGNED SYSTEM. FIRE ALARM SYSTEM CONTRACTOR SHALL FIELD INVESTIGATE, DESIGN, COORDINATE, PROGRAM, TEST, AND COMMISSION THE NEW FIRE ALARM SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES AND AHJ REGULATIONS. FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR ALL DEVICES DEEMED NECESSARY BY AUTHORITY HAVING JURISDICTION. COORDINATE FIRE ALARM SYSTEM MONITORING REQUIREMENTS WITH OWNER.

KEY NOTES

- NOTIFIED
- CONNECTION TO IRRIGATION CONTROLLER. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH IRRIGATION SYSTEM INSTALLER PRIOR TO ROUGH-IN.
- CEILING MOUNTED RECEPTACLE AND DATA OUTLET FOR CONNECTION TO PROJECTOR.
- KEYED SWITCHES TO OPERATE BASKETBALL BACKBOARDS AND OVERHEAD DIVIDER CURTAIN. PROVIDE CONDUIT AND WIRING AS NECESSARY TO INTERLOCK WITH MOTORS ABOVE. SEE SHEET EP-102 FOR ADDITIONAL INFORMATION.
- SWITCHED RECEPTACLE UNDER SINK FOR CONNECTION TO GARBAGE DISPOSAL.
- PROVIDE 208V, 15A, 3P, 3W + G PLUG FOR CONNECTION TO WASHING MACHINE. COORDINATE PLUG CONFIGURATION WITH WASHING MACHINE.
- CONNECTION TO ADA DOOR OPERATOR. COORDINATE CONNECTION AND CONTROLS WITH OPERATOR.
- CONNECTION TO INTEGRATED METAL DOOR ASSEMBLY. COORDINATE REQUIREMENTS WITH DOOR INSTALLER PRIOR TO ROUGH-IN.
- *BRACING AGAINST WALL. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.
- CONNECTION FOR 1ST LEVEL 120V MOTORIZED DAMPERS. CONNECT UP TO TEN MOTORIZED DAMPERS TO CIRCUIT INDICATED. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION.
- PROVIDE DEDICATED 208V SINGLE PHASE 20 AMP CIRCUIT WITH L4-30 RECEPTACLE.
- PROVIDE DISCONNECT FOR CONNECTION TO RADIANT PANELS. SEE MECHANICAL EQUIPMENT SCHEDULE FOR MORE INFORMATION.
- PROVIDE 120V CIRCUIT FOR ELEVATOR PIT GFI AND LIGHTING. REFER TO ELEVATOR DETAIL FOR MORE INFORMATION.
- PROVIDE 208V 3 PHASE CIRCUIT FOR SLUMP PUMP. SLUMP PUMP CONTROL PANEL TO BE LOCATED IN MEN'S LOCKER ROOM 140 MAINTENANCE CLOSET.

12/20/15 9:51:30 AM

SECTION 26 0800 – ELECTRICAL TESTING

PART 1 - GENERAL

1.1 PROVISIONS

- A. The drawings and general provisions of the contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this section.

1.2 TEST REPORT SUBMITTALS

- A. Prior to Testing: The Testing Firm shall develop and provide a detailed “Testing Submittal” for review and approval by the engineer four weeks before any testing is required to be performed. The submittal shall include a complete resume and statement of qualifications from the testing firm detailing the following:
 - 1. Company History
 - 2. Equipment Calibration Program
 - 3. List of Equipment to be tested
 - 4. List of Functional Tests to be performed to verify proper operation of systems.
 - 5. Specific Test Procedures to be utilized on this project, along with the applicable test values to determine pass or fail.
 - 6. Sample test data recording forms that are applicable to this project.
 - 7. NETA Certificate
 - 8. Submit a sample coordination study from a similar project. Submit sub-consultant qualifications if fault analysis and coordination study is not directly performed by Testing Firm.
 - 9. Submit a sample Arc Flash study from a similar project. Submit sub-consultant qualifications if Arc Flash study is not directly performed by Testing Firm.
- B. Final Report:
 - 1. Submit results of testing for each system to the Engineer when complete in accordance with Division 1 and Section 5.4 of NETA ATS-2009.
 - 2. Submit final coordination study and summary of dialed in settings of overcurrent protective devices. Final report, coordination curves and device settings summary to reflect “as installed” conditions.
 - 3. Submit Arc Flash Hazard study including flash hazard boundaries, incident energy and required PPE for all electrical equipment.

4. Include Final Report in Operation & Maintenance Manuals
5. Report shall conform to the requirements of NETA ATS-2009 Section 5.4

1.3 SCOPE/DIVISION OF RESPONSIBILITY

- A. The Contractor shall perform routine insulation resistance, continuity, phase rotation, motor rotation, and bolt/lug torque tests for all distribution and utilization equipment prior to any tests performed by a separate testing contractor.
- B. The Contractor shall test all lighting and utilization equipment, services, and all circuits for proper operating conditions prior to acceptance testing.
- C. The Contractor shall perform visual and mechanical inspections, verifying that the equipment nameplate information meets the intent of the drawings and specifications.
- D. The Contractor shall engage and pay for the services of a recognized corporately and financially independent Testing Firm for the purpose of performing inspections and tests as herein specified. The Testing Firm shall coordinate testing responsibilities and scheduling with equipment manufacturer's site test and startup field technicians where manufacturer's site presence is required in other specification sections.
- E. The protective device coordination study shall be performed by the Testing Firm or their contracted agent. The studies shall include all portions of the electrical distribution system from the normal and alternate sources of power throughout the low-voltage (120/208V, three-phase, four-wire) distribution system. Normal system operating method, alternate operation, and operations which could result in maximum fault conditions shall be thoroughly covered in the study.
- F. The Testing Firm shall be responsible for dialing in all final settings and adjustments on protective devices and transformer tap settings after review and acceptance of the coordination study by the Engineer.
- G. An itemized description of equipment to be inspected and tested by the Testing Firm is as follows:
 1. Main distribution switchgear, and emergency/standby switchgear.
 2. Distribution switchboards rated 800A and larger.
 3. Distribution panelboards rated 400A and larger.
 4. Transformers (225 kVA and larger).
 5. Cables and Wiring: Test all cables and wiring rated to carry 200 amps and above at 480 volts, and 400 amps and above at 208 volts.
 6. Grounding system.
 7. LV Circuit Breakers (applies to all power breakers and molded case breakers 225A and above)

8. Metering

1.4 TEST EQUIPMENT

- A. Test equipment shall comply with Section 5.2 of NETA ATS-2009.
- B. Test instrument calibration shall comply with Section 5.3 of NETA ATS-2009.

1.5 SAFETY AND PRECAUTIONS

- A. Safety practices shall include, but are not limited to, the following requirements:
 - 1. Section 5.1 of NETA ATS-2009.
 - 2. Occupational Safety and Health Act.
 - 3. Accident Prevention Manual for Industrial Operations, National Safety Council
 - 4. Applicable state and local safety operating procedures
 - 5. Owner's safety practices
 - 6. National Fire Protection Association - NFPA 70E
 - 7. American National Standards for Personnel Protection
 - 8. ANSI/IEEE C2, National Electrical Safety Code
- B. All pre-functional tests shall be performed with apparatus de-energized. Exceptions must be thoroughly reviewed to identify safety hazards and devise adequate safeguards.
- C. The Testing Firm shall coordinate with the Contractor's safety representative on the project to supervise the testing operations with respect to safety.

1.6 QUALIFICATIONS OF TESTING FIRM

- A. The Testing Firm shall be a corporately and financially independent testing organization which can function as an unbiased testing authority, professionally independent of the manufacturers, suppliers, and installers of equipment or systems evaluated by the Testing Firm.
- B. The Testing Firm shall be regularly engaged in the testing of electrical equipment devices, installations, and systems.
- C. The Testing organization shall use technicians who are regularly employed for testing services.
- D. An organization having a "Full Membership" classification issued by the International Electrical Testing Association meets the above criteria.

- E. The testing organization shall submit appropriate documentation to demonstrate that it satisfactorily complies with these requirements.
- F. Testing personnel shall comply with the requirements of Section 3.2 of NETA ATS-2009.

1.7 APPLICABLE CODES, STANDARDS, AND REFERENCES

- A. All inspections and tests shall be in accordance with the following codes and standards except as provided otherwise herein:
 - 1. National Electrical Manufacturer's Association - NEMA
 - 2. American Society for Testing and Materials - ASTM
 - 3. Institute of Electrical and Electronic Engineers - IEEE
 - 4. InterNational Electrical Testing Association - NETA Acceptance Testing Specifications - ATS-2009
 - 5. American National Standards Institute - ANSI C2: National Electrical Safety Code
 - 6. Codes and ordinances of the State, County, and City
 - 7. Insulated Cable Engineers Association - ICEA
 - 8. Association of Edison Illuminating Companies - AEIC
 - 9. Occupational Safety and Health Administration - OSHA
 - 10. National Fire Protection Association - NFPA
 - a. ANSI/NFPA 70: National Electrical Code
 - b. ANSI/NFPA 70B: Electrical Equipment Maintenance
 - c. NFPA 70E: Electrical Safety Requirements for Employee Workplaces
 - d. ANSI/NFPA 780: Lightning Protection Code
 - e. ANSI/NFPA 101: Life Safety Code
- B. All inspections and tests shall utilize the following references:
 - 1. Project design specifications
 - 2. Project design drawings
 - 3. Manufacturer's instruction manuals applicable to each particular apparatus

PART 2 – SHORT CIRCUIT AND PROJECTIVE DEVICE COORDINATION STUDY

2.1 SHORT-CIRCUIT STUDY

- A. The study shall be in accordance with applicable ANSI and IEEE Standards and Section 6.1 of NETA ATS-2009 and be performed by the testing firm under the supervision of a professional electrical engineer. If possible, this study shall be performed on the latest version of SKM DAPPER software.
- B. A short circuit study has been performed by the Engineer to determine the AIC ratings of equipment. A more detailed study shall be performed using ratings, data etc of as installed equipment for verification of the preliminary study and for use in the coordination and other studies.

2.4 ARC FLASH HAZARD ANALYSIS

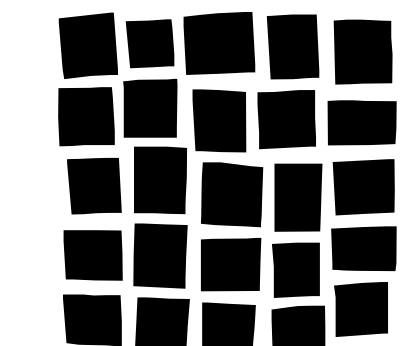
- A. Using the calculated available short circuit, determine the following:
 - 1. Calculate the flash protection boundary.
 - 2. Calculate the arc-flash incident energy.
 - 3. Provide necessary flash protection boundary signage and warning labels for switchgear compartments to comply with NFPA 70E.
 - 4. Determine the required personal protective equipment for personnel working on or near energized conductors or components.
 - 5. Generate Work Permits per the requirements of NFPA 70E for use by the Owner's facility maintenance personnel.

PART 3 - COMPONENT INSPECTION AND TEST PROCEDURES

3.1 ELECTRICAL TESTS

- A. The recommended electrical equipment tests and procedures specified in NETA ATS 2009 shall be performed on electrical equipment within the scope of this project including any exceptions or modifications noted below.
 - 1. Switchgear and Switchboard Assemblies: Per NETA ATS 2009 Section 7.1 2.
 - 2. Transformers, Dry Type, Air Cooled, Low Voltage, Small (225KVA to 500KVA): Per NETA ATS 2009 Section 7.2.1.1
 - 3. Transformers, Liquid Filled: Per NETA ATS 2009 Section 7.2.2
 - 4. Cables, Low Voltage, 600V Maximum: Per NETA ATS 2009 Section 7.3.2
 - 5. Cables, Medium and High Voltage: Per NETA ATS 2009 Section 7.3.3

END OF SECTION 26 08 00



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ADDENDUM 03	12.09.2015	3

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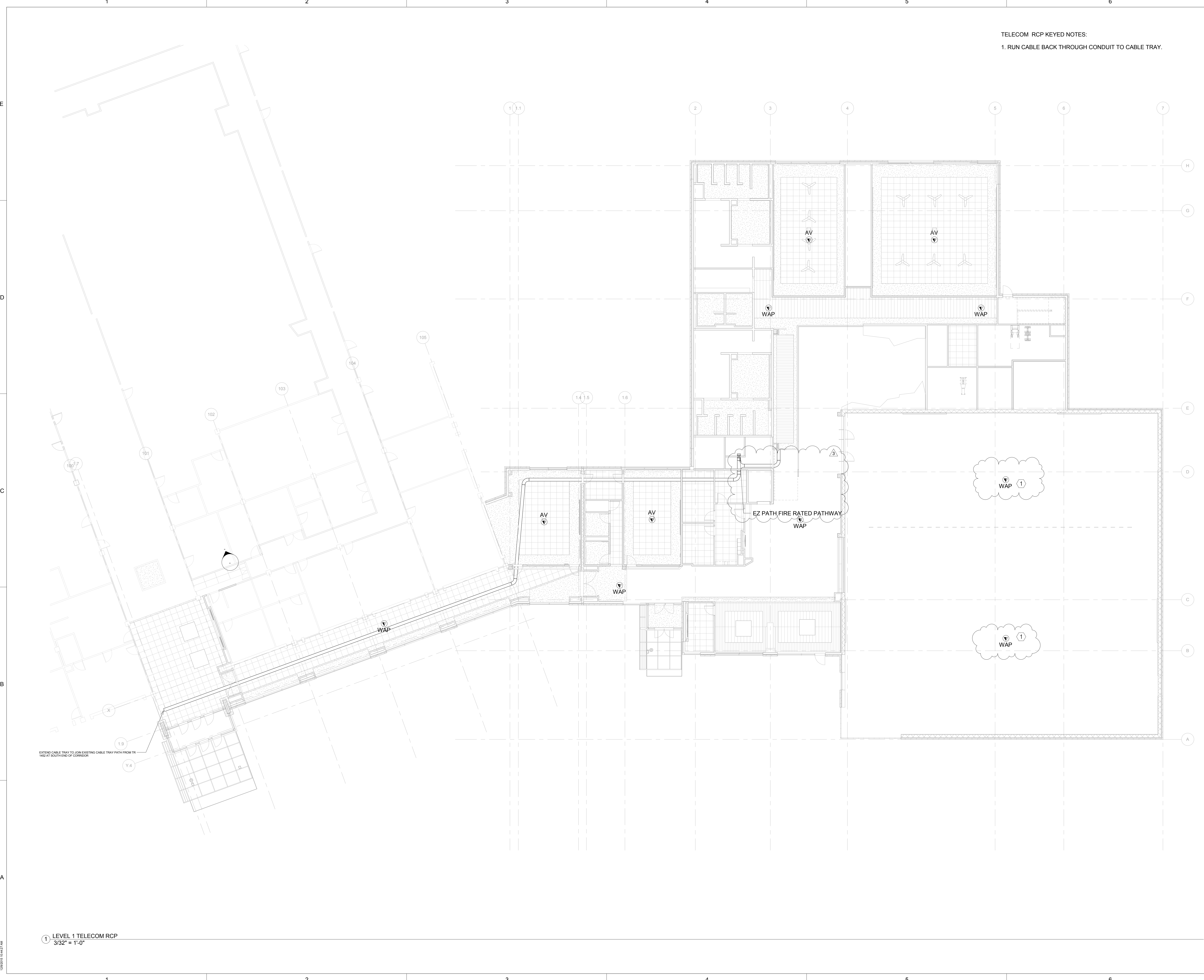
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**TELECOM LEVEL 1
RCP**

CONSTRUCTION
Nov. 9, 2015 DOCUMENTS
Sheet Number:

TT-151

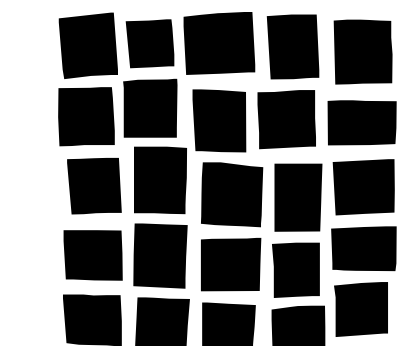
DPA Project: 15803.00

TELECOM RCP KEYED NOTES:
1. RUN CABLE BACK THROUGH CONDUIT TO CABLE TRAY.



1 LEVEL 1 TELECOM RCP
3/32" = 1'-0"

12/09/15 10:44:27 AM



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Sheet Title:
**TELECOM LEVEL 2
RCP**

CONSTRUCTION
Nov. 9, 2015
DOCUMENTS
Sheet Number:

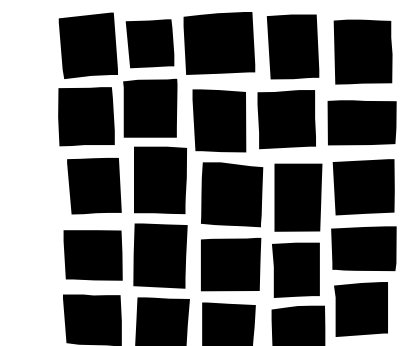
TT-152

DPA Project: 15803.00



1 LEVEL 2 TELECOM RCP
3/32" = 1'-0"

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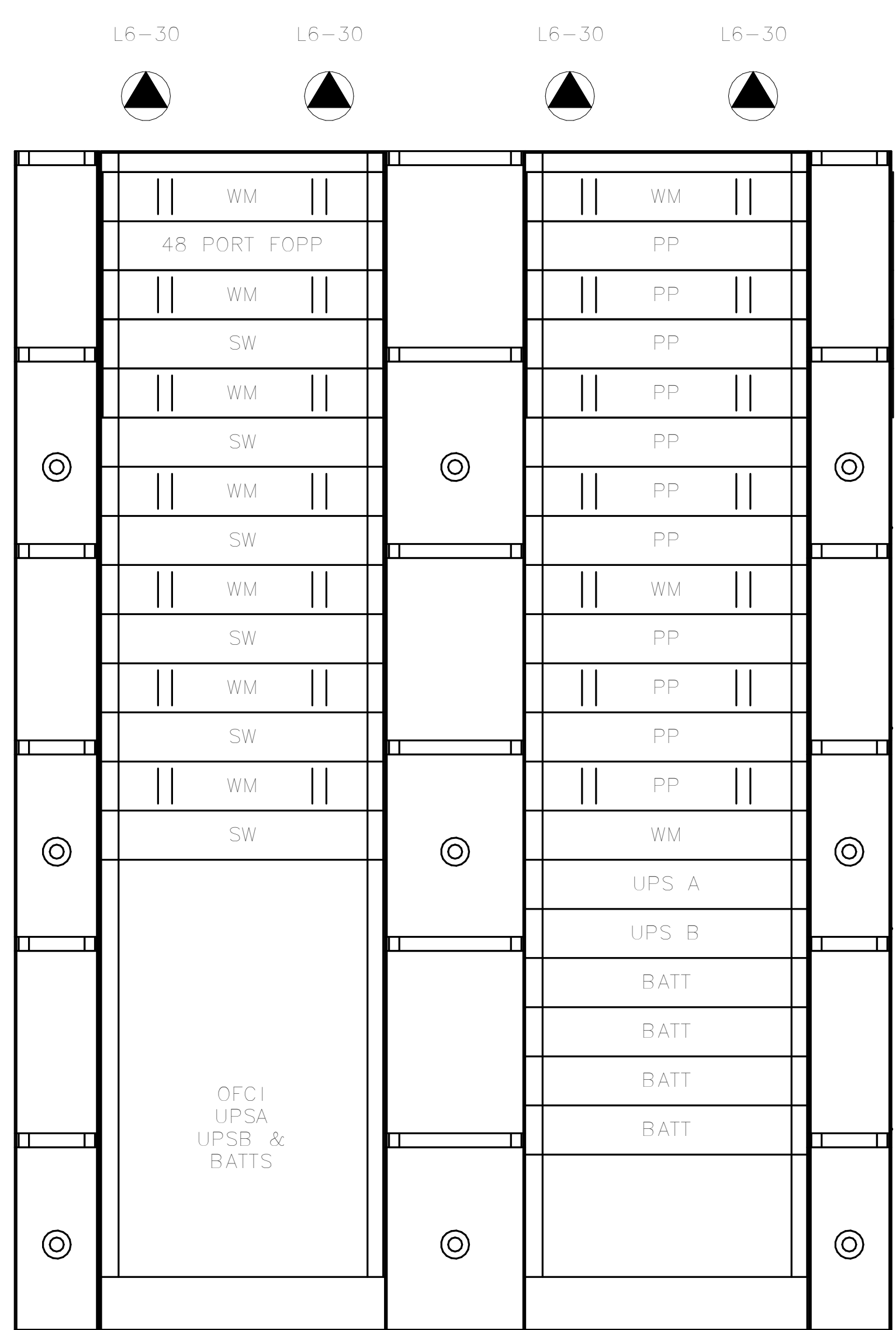
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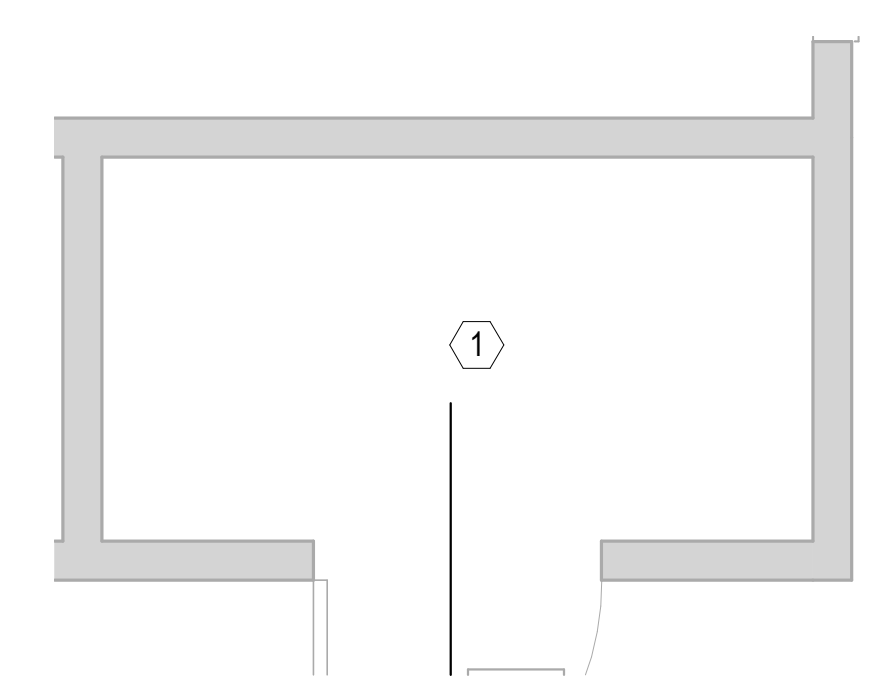
TELECOM ENLARGED PLAN GENERAL NOTES:
1. POWER TO THE EQUIPMENT IN THE MDF WILL REQUIRE TWO SEPERATE REDUNDANT POWER SOURCES

TELECOM ENLARGED KEYNOTES	
1	IDF ROOM SHALL BE USED AS PULL THRU LOCATION FOR CABLING FROM MDF BELOW TO DISTRIBUTE TO SECOND LEVEL

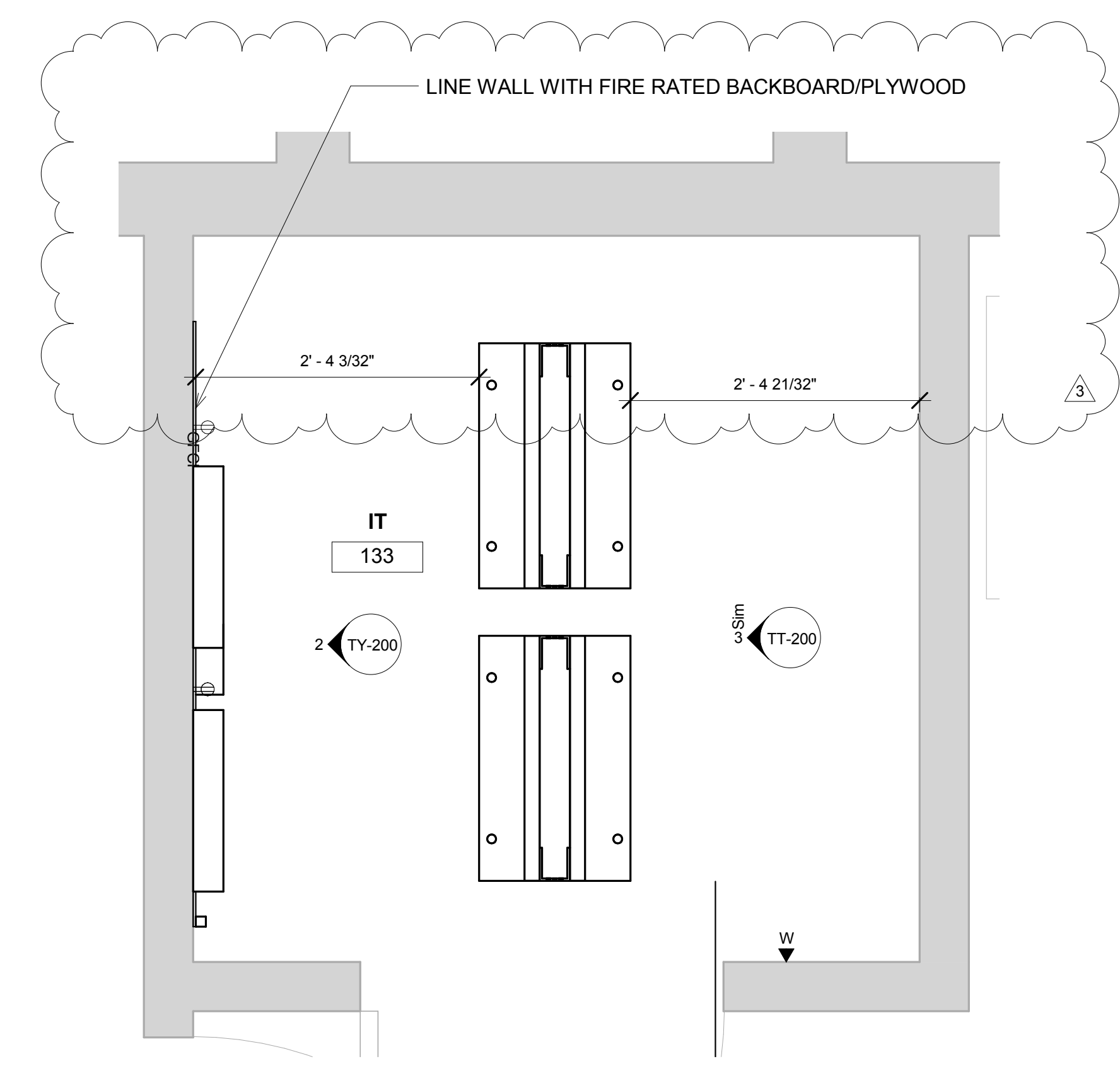
NOTE: FINAL EQUIPMENT LAYOUT SHOULD BE COORDINATED WITH OWNER



③ TELECOM RACK ELEVATION
1 1/2" = 1'-0"



② ENLARGED TELECOM IDF ROOM PLAN
1/2" = 1'-0"



① ENLARGED TELECOM MDF ROOM PLAN
1" = 1'-0"

Issue/Revisions	Date	No.
ADDENDUM 03	12.09.2015	3

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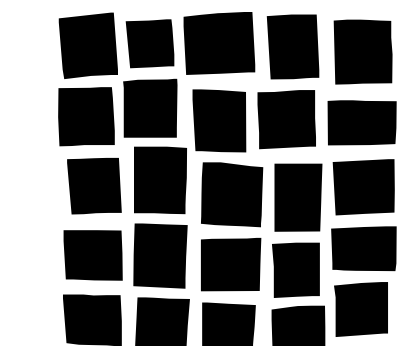
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Sheet Title:
**TELECOM
ENLARGED PLANS**

CONSTRUCTION
Nov. 9, 2015 DOCUMENTS
Sheet Number:

TT-200

DPA Project: 15803.00



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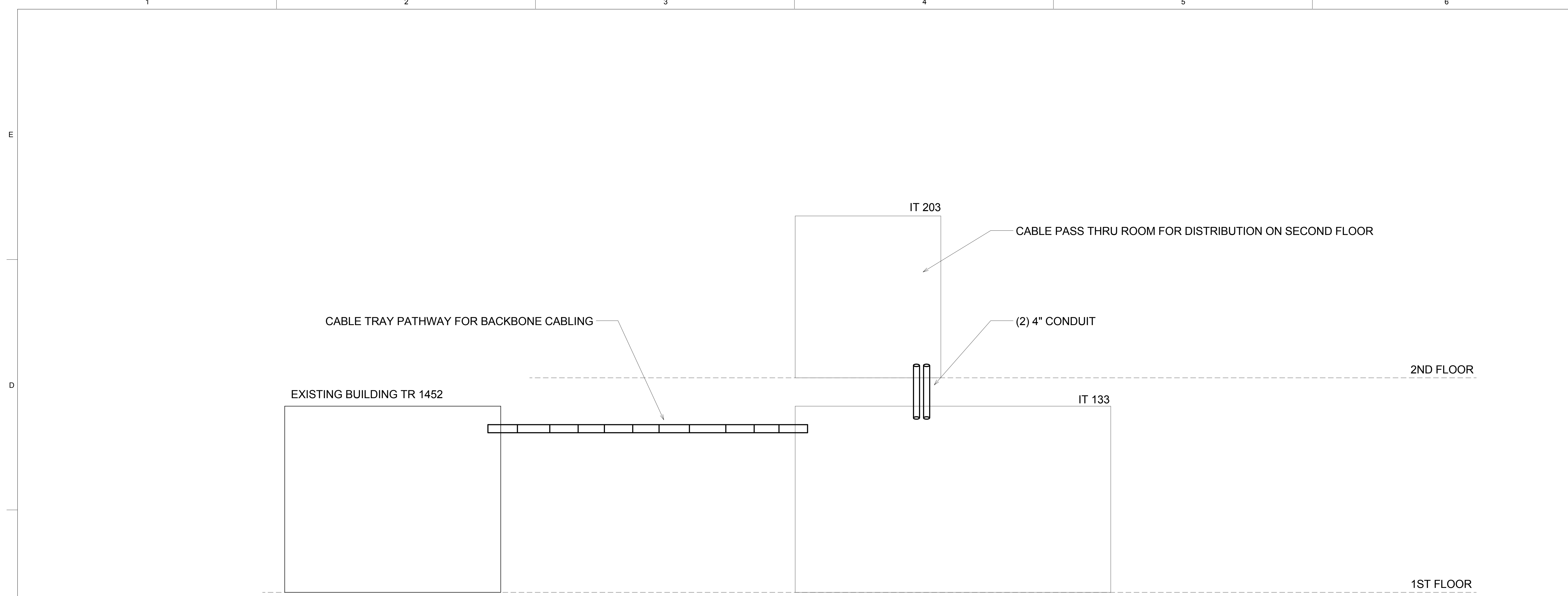
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Sheet Title:
**TELECOM RISERS
DIAGRAM**

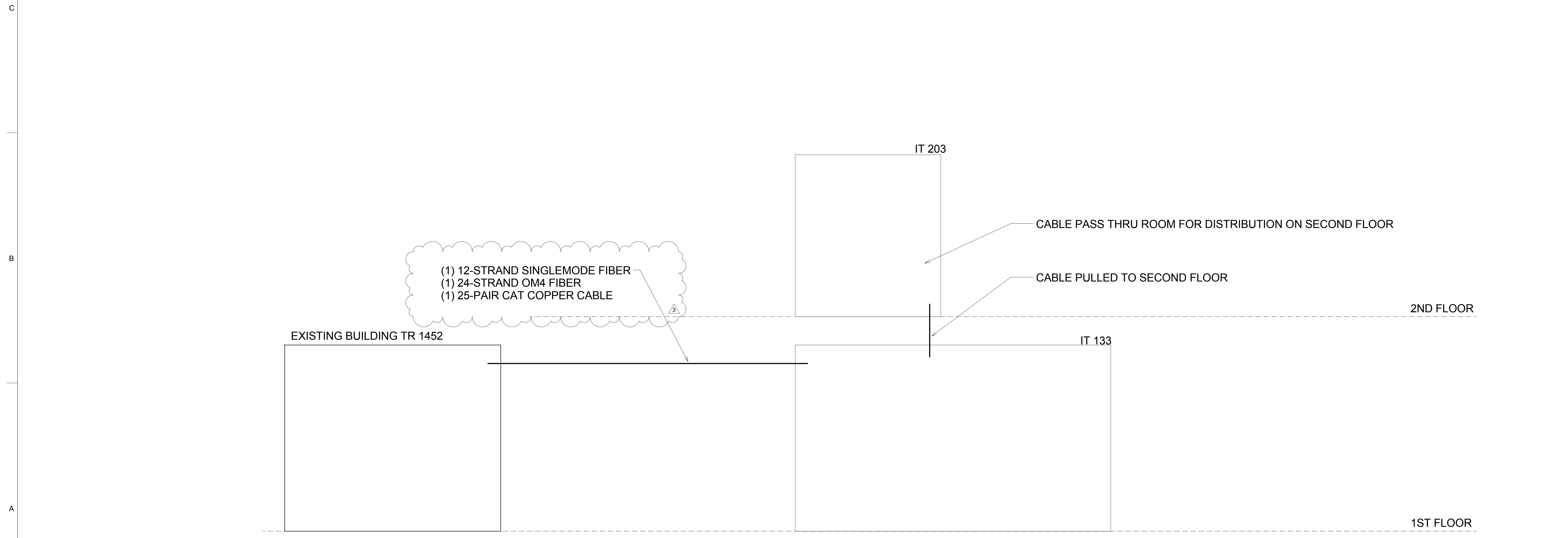
CONSTRUCTION
Nov. 9, 2015 DOCUMENTS
Sheet Number:

TT-300

DPA Project: 15803.00



CONDUIT RISER DIAGRAM



CABLE RISER DIAGRAM

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GENERAL NOTES:

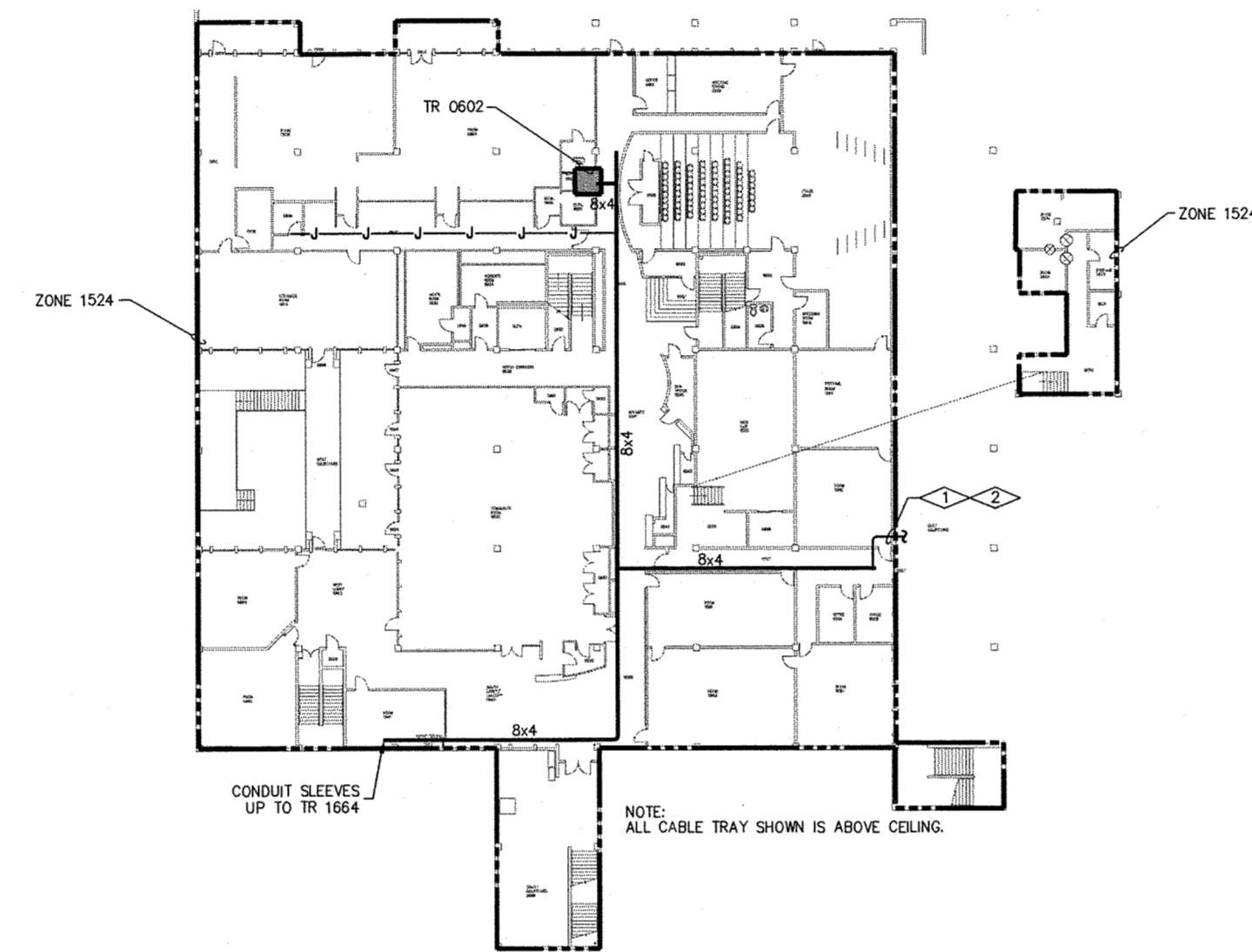
1. WORK INCLUDED IN THE CONTRACT IS DENOTED IN BOLD. EXISTING CONDITIONS TO REMAIN ARE DENOTED LIGHTLY.
2. PROTECT STRUCTURE AND OWNED EQUIPMENT FROM DAMAGE. IMMEDIATELY REPLACE OR REPAIR, TO ORIGINAL CONDITION, DAMAGE CAUSED BY THE CONTRACTOR WHETHER EQUIPMENT APPEARS TO BE CURRENTLY IN USE OR NOT, UNLESS WRITTEN AUTHORIZATION FROM THE OWNER, INDICATED OTHERWISE. PREPARE LISTING OF ALL EXISTING DAMAGED ITEMS AND SUBMIT TO OWNER PRIOR TO BEGINNING WORK.
3. INSTALL CONDUIT CONCEALED IN FINISHED AREAS UNLESS OTHERWISE NOTED. PAINT EXPOSED CONDUIT TO MATCH EXISTING FINISHES WITHIN THE SURROUNDING AREA.
4. DO NOT ROUTE CONDUIT WITHIN STRUCTURAL OR TOPPING SLABS OF FLOORS UNLESS SPECIFICALLY NOTED OTHERWISE AND WRITTEN APPROVAL IS OBTAINED FROM THE STRUCTURAL ENGINEER.
5. FIRE SEAL ALL FIRE RATED WALL AND FLOOR PENETRATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED WALLS.
6. A DETAILED WRITTEN METHOD OF PROCEDURE IS REQUIRED WHEN A CONSTRUCTION ACTIVITY OR AN OUTAGE AFFECTS THE SAFETY OF OCCUPANTS. TELEPHONE/DATA/FIRE ALARM EQUIPMENT OR COMPONENTS OF ANY SYSTEM WHICH SUPPORTS THIS EQUIPMENT OR ESSENTIALLY AFFECTS THE BUILDING MANAGEMENT, OPERATIONS OR SECURITY. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. EXISTING INFORMATION SHOWN ON THE DRAWINGS HAS BEEN TAKEN FROM OWNER FURNISHED DRAWINGS AND/OR LIMITED FIELD OBSERVATIONS. CATOR, RUMA & ASSOCIATES IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY INFORMATION OR THE ADEQUACY, SAFETY AND CONFORMANCE TO CURRENT PREVAILING CODES OF ANY WORK SHOWN AS EXISTING ON THESE DRAWINGS.

TECHNOLOGY PLAN NOTES:

1. USE EXISTING CONDUIT AND BACK BOXES AT ALL LOCATIONS UNLESS DEVICES LOCATION IS NEW.
2. PROVIDE 4" SQUARE OUTLET BOX AND SINGLE GANG MID RING FOR ALL TELE/DATA OUTLETS. ROUTE 1" CONDUIT FROM EACH OUTLET TO ABOVE ACCESSIBLE CEILING UNLESS NOTED OTHERWISE. PROVIDE INSULATED THROAT CONNECTOR ON CONDUIT END. KEEP ALL EXPOSED CONDUITS TIGHT TO STRUCTURE.
3. PROVIDE AN 8' SERVICE LOOP AT STATION END OF ALL CABLE RUNS. PROVIDE 25' SERVICE LOOP AT ALL WIRELESS ACCESS POINT LOCATIONS. TERMINATE CABLE ON A SURFACE MOUNT OUTLET BOX.
4. HOME/RUN ALL VOICE AND DATA CABLES TO DESIGNATED CONTROL PANELS, PATCH PANELS, OR WALL FIELDS IN TELECOMMUNICATIONS ROOM LOCATED IN THE SAME ZONE. PROVIDE S-HOOK TYPE CABLE SUPPORTS IN OPEN OR ACCESSIBLE CEILING SPACE AS REQUIRED TO SUPPORT CABLES IN ROUT TO CABLE TRAY OR CONDUIT PATHWAY TO TELECOMMUNICATIONS ROOM. ROUTE CABLE SUPPORTS SUCH THAT CABLE VISIBILITY WILL BE MINIMIZED IN ANY OPEN CEILING AREAS.
5. COORDINATE AND VERIFY EXACT MOUNTING LOCATIONS OF WALL, CEILING, AND FLOOR DEVICES WITH ARCHITECTURAL ELEVATIONS, AND ANY FURNITURE OR SPECIALTY EQUIPMENT SUPPLIER DRAWINGS PRIOR TO ROUGH-IN.
6. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND NOTIFY ENGINEER OF ANY ADVERSE FIELD CONDITIONS PRIOR TO PERFORMING ANY WORK.

KEY NOTES:

- ◇ PROVIDE (2) 4" CONDUITS FROM IN CRAWLSPACE UNDER DATA CENTER UNDER PEDESTRIAN BRIDGE AND INTO CRAWLSPACE ON WEST END. STUD CONDUITS UP FROM WEST CRAWLSPACE TO ACCESSIBLE CEILING IN BASEMENT TO CABLE TRAY.
- ◇ PROVIDE (2) 4" FLEX CONDUITS ACROSS EXPANSION JOINTS.



BASEMENT AND SUB-BASEMENT LEVELS TECHNOLOGY ZONING AND MAJOR PATHWAY PLANS

SCALE: 1/32" = 1'-0"

DRAWING TITLE

BASEMENT AND SUB-BASEMENT LEVELS TECHNOLOGY ZONING AND MAJOR PATHWAY PLANS

RED ROCKS COMMUNITY COLLEGE DATA CENTER RELOCATE AND TELECOM UPGRADE

TITLE

CATOR, RUMA & ASSOCIATES CO.

896 1480th STREET, LAKEWOOD, COLORADO 80401 PHONE: (303) 232-5200 FAX: (303) 233-3701

REVISIONS:

RECORD DRAWINGS 01/06/14

DATE: 11/28/12

DRAWN BY: JAJ

CHECKED BY: MJM

JOB NO: 2012-120

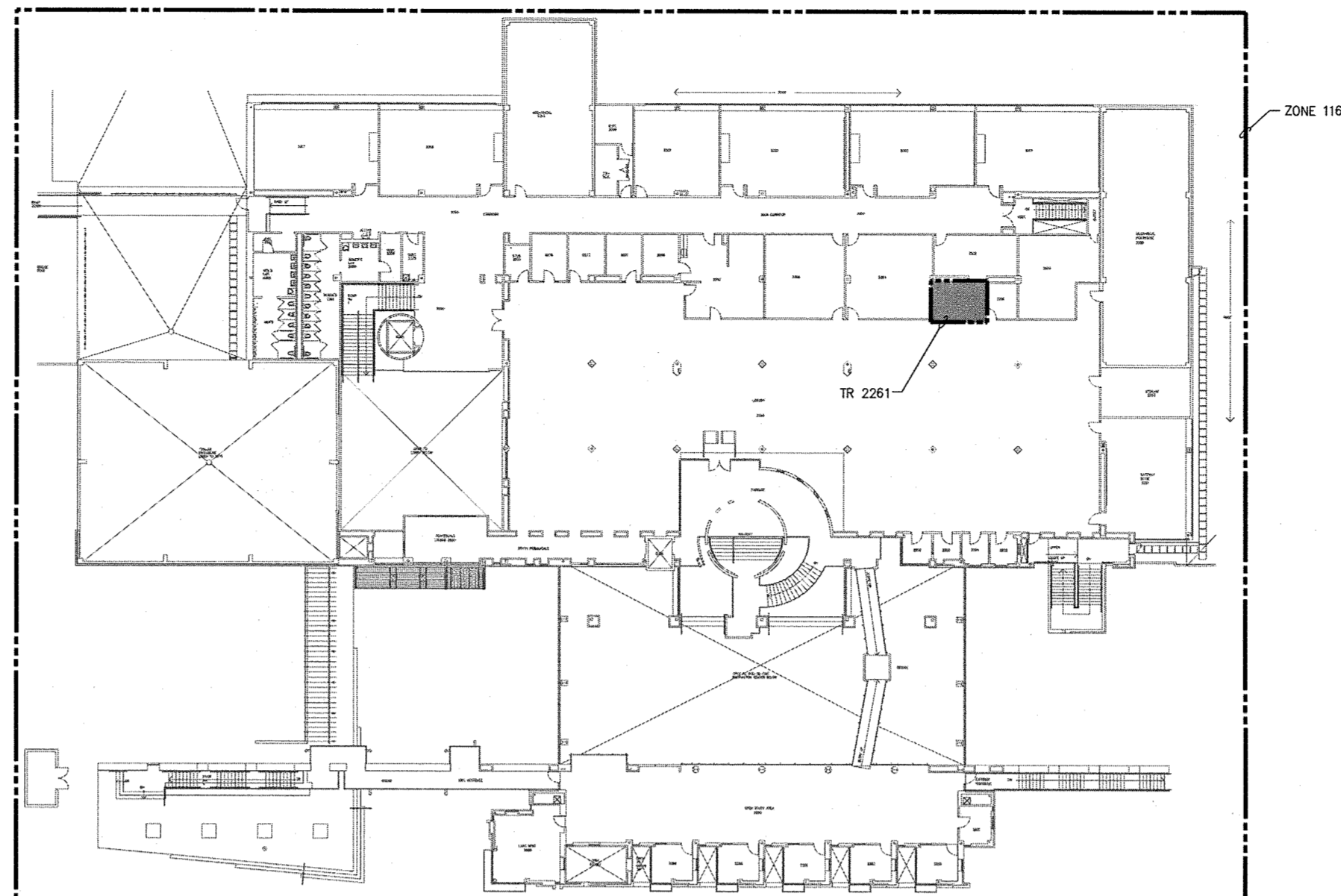
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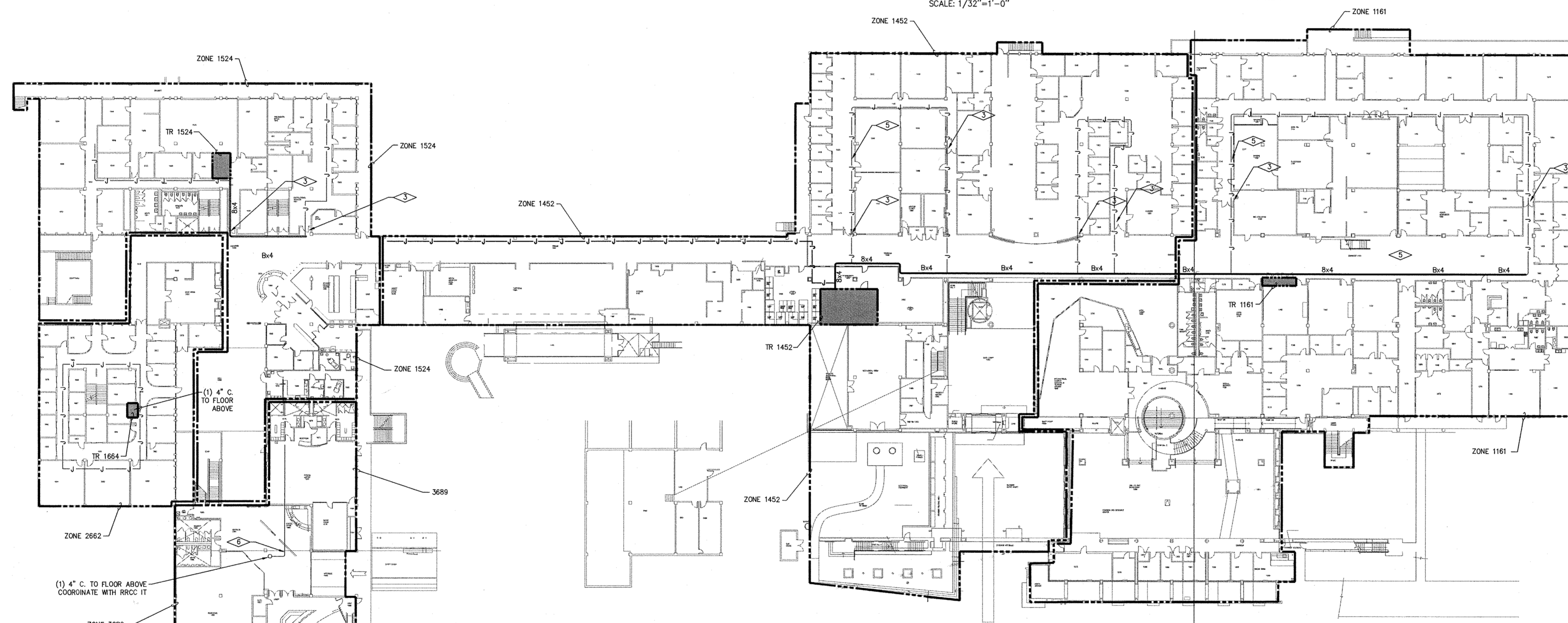
T2.00

REFER TO CABLING CONTRACTOR PROVIDED TELECOM CABLING DRAWINGS FOR TELECOM CABLING REQUIREMENTS AND LABELING

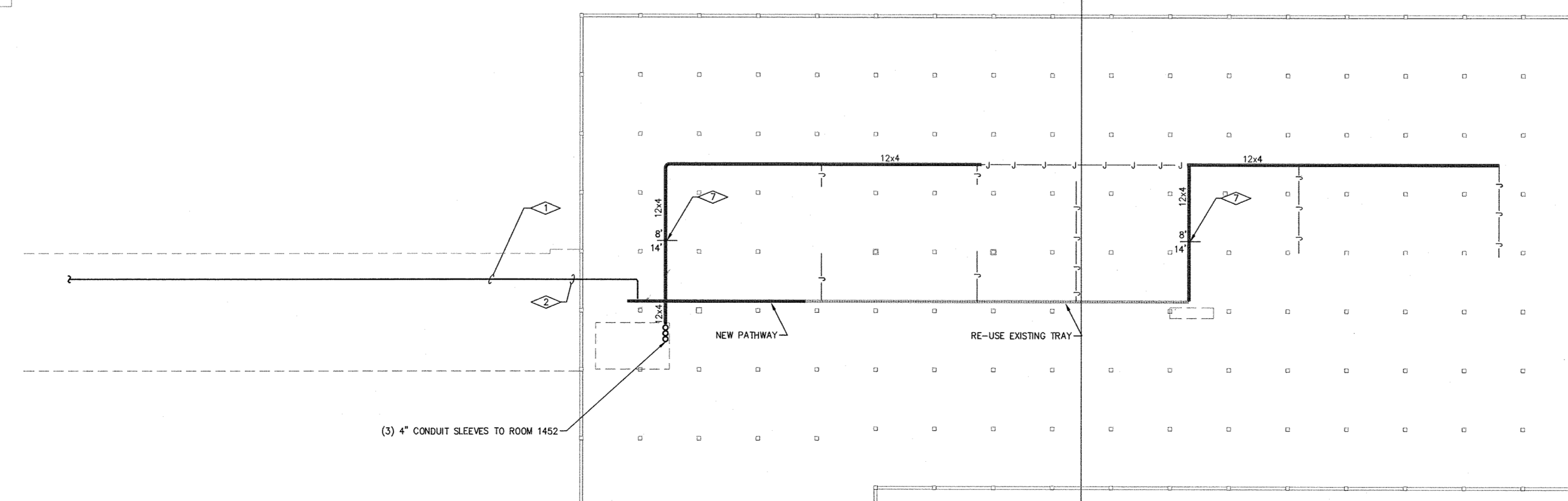
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LEVEL 2 TECHNOLOGY ZONING PLAN
SCALE: 1/32"=1'-0"



LEVEL 1 TECHNOLOGY ZONING AND MAJOR PATHWAY PLAN
SCALE: 1/32"=1'-0"



CRAWLSPACE CABLE TRAY LAYOUT
SCALE: 1/32"=1'-0"

GENERAL NOTES:

1. WORK INCLUDED IN THE CONTRACT IS DENOTED IN BOLD. EXISTING CONDITIONS TO REMAIN ARE DENOTED LIGHTLY.
2. PROTECT STRUCTURE AND OWNER EQUIPMENT FROM DAMAGE. IMMEDIATELY REPLACE OR REPAIR TO ORIGINAL CONDITION DAMAGE CAUSED BY THE CONTRACTOR WHETHER EQUIPMENT APPEARS TO BE CURRENTLY IN USE OR NOT. UNLESS WRITTEN AUTHORIZATION FROM THE OWNER INDICATES OTHERWISE, PREPARE LISTING OF ALL EXISTING DAMAGED ITEMS AND SUBMIT TO OWNER PRIOR TO BEGINNING WORK.
3. INSTALL CONDUIT CONCEALED IN FINISHED AREAS UNLESS OTHERWISE NOTED. PAINT EXPOSED CONDUIT TO MATCH EXISTING FINISHES WITHIN THE SURROUNDING AREA.
4. DO NOT ROUTE CONDUIT WITHIN STRUCTURAL OR TOPPING SLABS OF FLOORS UNLESS SPECIFICALLY NOTED OTHERWISE AND WRITTEN APPROVAL IS OBTAINED FROM THE STRUCTURAL ENGINEER.
5. FIRE SEAL ALL FIRE RATED WALL AND FLOOR PENETRATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED WALLS.
6. A DETAILED WRITTEN METHOD OF PROCEDURE IS REQUIRED WHEN A CONSTRUCTION ACTIVITY OR AN OUTAGE AFFECTS THE SAFETY OF OCCUPANTS, TELEPHONE/DATA/FIRE ALARM EQUIPMENT OR COMPONENTS OF ANY SYSTEM WHICH SUPPORTS THIS EQUIPMENT OR ESSENTIALLY AFFECTS THE BUILDING MANAGEMENT, OPERATIONS OR SECURITY. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. EXISTING INFORMATION SHOWN ON THE DRAWINGS HAS BEEN TAKEN FROM OWNER FURNISHED DRAWINGS AND/OR LIMITED FIELD OBSERVATIONS. CATOR, RUMA & ASSOCIATES IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY INFORMATION OR THE ADEQUACY, SAFETY AND CONFORMANCE TO CURRENT PREVAILING CODES OF ANY WORK SHOWN AS EXISTING ON THESE DRAWINGS.

TECHNOLOGY PLAN NOTES:

1. USE EXISTING CONDUIT AND BACK BOXES AT ALL LOCATIONS UNLESS DEVICES LOCATION IS NEW.
2. PROVIDE 4" SQUARE OUTLET BOX AND SINGLE GANG MUD RING FOR ALL TELE/DATA OUTLETS. ROUTE 1" CONDUIT FROM EACH OUTLET TO ABOVE ACCESSIBLE CEILING UNLESS NOTED OTHERWISE. PROVIDE INSULATED THROAT CONNECTOR ON CONDUIT END. KEEP ALL EXPOSED CONDUITS TIGHT TO STRUCTURE.
3. PROVIDE AN 8" SERVICE LOOP AT STATION END OF ALL CABLE RUNS. PROVIDE 20' SERVICE LOOP AT ALL WIRELESS ACCESS POINT LOCATIONS. TERMINATE CABLE ON A SURFACE MOUNT OUTLET BOX.
4. HOMERUN ALL VOICE AND DATA CABLES TO DESIGNATED CONTROL PANELS, PATCH PANELS, OR WALL FIELDS IN TELECOMMUNICATIONS ROOM LOCATED IN THE SAME ZONE. PROVIDE J-HOOK TYPE CABLE SUPPORTS IN OPEN OR ACCESSIBLE CEILING SPACE AS REQUIRED TO SUPPORT CABLES IN ROUTE TO CABLE TRAY OR CONDUIT PATHWAY TO TELECOMMUNICATIONS ROOM. ROUTE CABLE SUPPORTS SUCH THAT CABLE VISIBILITY WILL BE MINIMIZED IN ANY OPEN CEILING AREAS.
5. COORDINATE AND VERIFY EXACT MOUNTING LOCATIONS OF WALL, CEILING, AND FLOOR DEVICES WITH ARCHITECTURAL ELEVATIONS, AND ANY FURNITURE OR SPECIALTY EQUIPMENT SUPPLIER DRAWINGS PRIOR TO ROUGH-IN.
6. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND NOTIFY ENGINEER OF ANY ADVERSE FIELD CONDITIONS PRIOR TO PERFORMING ANY WORK.

KEY NOTES:

- ◇ PROVIDE (2) 4" CONDUITS IN CRAWLSPACE FROM DATA CENTER UNDER PEDESTRIAN BRIDGE AND INTO CRAWLSPACE ON WEST END. SUB CONDUITS UP FROM WEST CRAWLSPACE TO ACCESSIBLE CEILING IN BASEMENT TO CABLE TRAY.
- ◇ PROVIDE (2) 4" FLEX CONDUITS ACROSS EXPANSION JOINTS.
- ◇ PROVIDE E2 PATHS THROUGH RATED WALL. FIELD VERIFY EXACT LOCATIONS.
- ◇ RE-USE EXISTING CONDUIT TO THE ENVIRONMENTAL TRAINING CENTER FOR FIBER BACKBONE. THE CONDUIT ROUTES UNDER THE PEDESTRIAN BRIDGE NORTH TO A MANHOLE AND FROM THE MANHOLE TO THE ETC. COORDINATE EXACT LOCATION OF CONDUIT AND MANHOLE WITH OWNER.
- ◇ J-HOOKS RUNNING THROUGH THIS CORRIDOR SHALL BE INSTALLED INSIDE THE EXISTING SOFFIT ABOVE THE CEILING. THE SOFFIT CAN BE CUT AS NEEDED WITHOUT REPAIR TO INSTALL J-HOOKS.
- ◇ REUSE EXISTING INNERDUCT FOR CABLES IN FITNESS CENTER.
- ◇ TRANSITION CABLE TRAY ELEVATION FROM 14' DOWN TO 6'.

DRAWING TITLE

LEVELS 1 AND 2 EAST TECHNOLOGY ZONING AND MAJOR PATHWAYS PLAN

TITLE

RED ROCKS COMMUNITY COLLEGE DATA CENTER RELOCATE AND TELECOM UPGRADE

CATOR, RUMA & ASSOCIATES CO.

806 TABOR STREET, LAKEWOOD, COLORADO 80401 PHONE: (303) 332-6200 FAX: (303) 233-3701

REVISIONS:

RECORD DRAWINGS 01/06/14

DATE: 11/28/12
DRAWN BY: JAI
CHECKED BY: MJM
JOB NO: 2012-120
FILE NAME: p-tech-zone.dwg

SHEET NO.

REFER TO CABLING CONTRACTOR PROVIDED TELECOM CABLING DRAWINGS FOR TELECOM CABLING REQUIREMENTS AND LABELING

THESE RECORD DRAWINGS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE ENGINEER HAS NOT VERIFIED THE ACCURACY OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

T2.01

KEY NOTES:

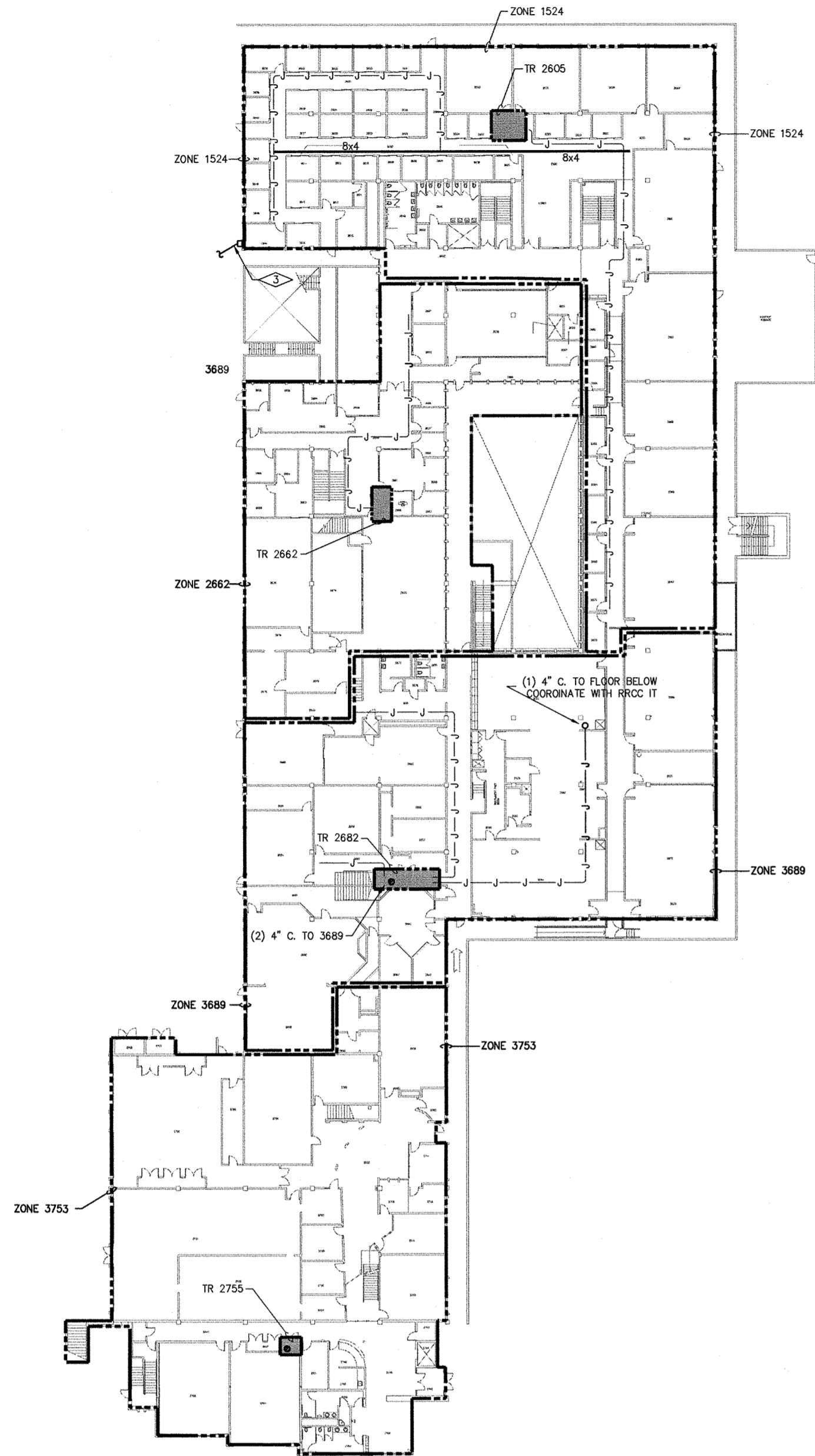
- ◇ PROVIDE (1) 4" CONDUIT WITH INNERDUCT TO CORRIDOR.
- ◇ PROVIDE (2) 4" CONDUITS WITH INNERDUCT IN ONE CONDUIT TO 1664.
- ◇ RE-USE EXISTING (2) 4" CONDUIT TO THE CONSTRUCTION TECH BUILDING.

GENERAL NOTES:

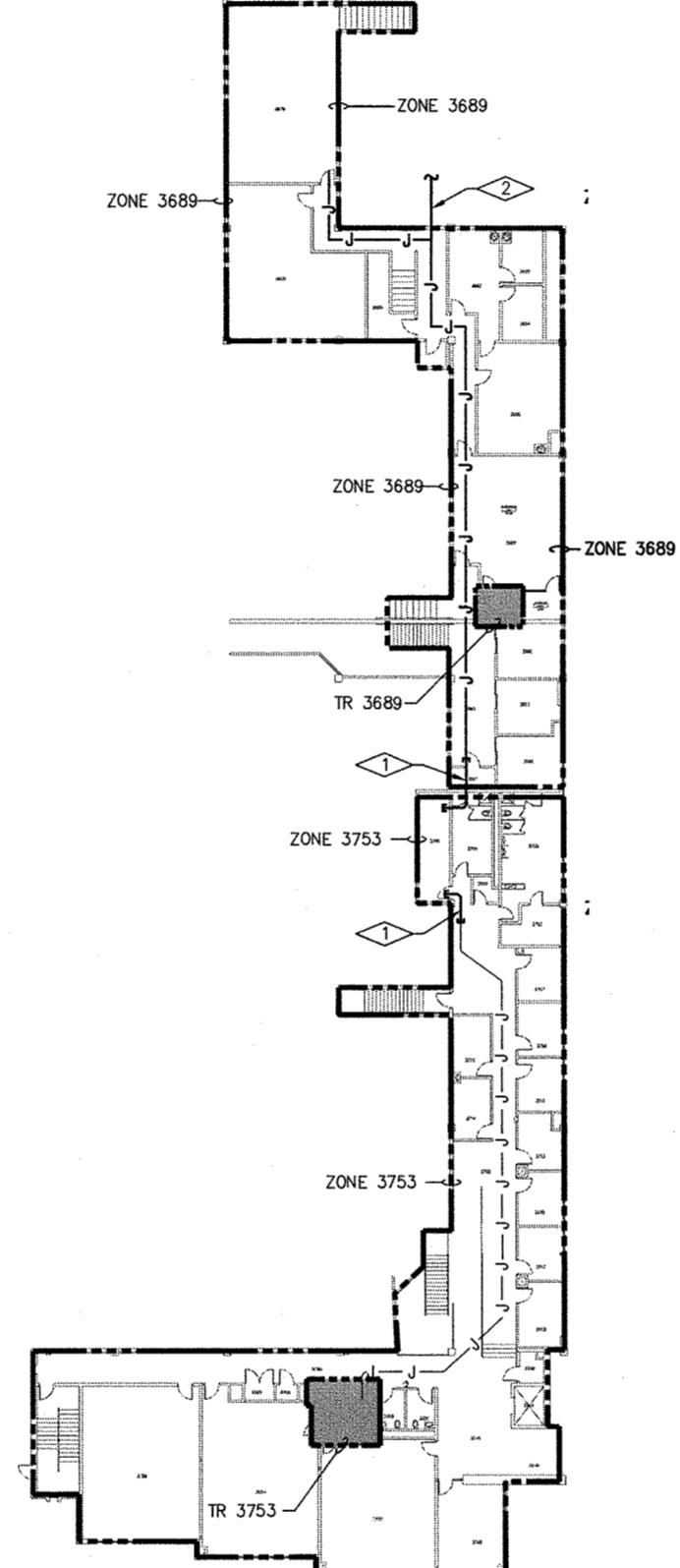
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TECHNOLOGY PLAN NOTES:

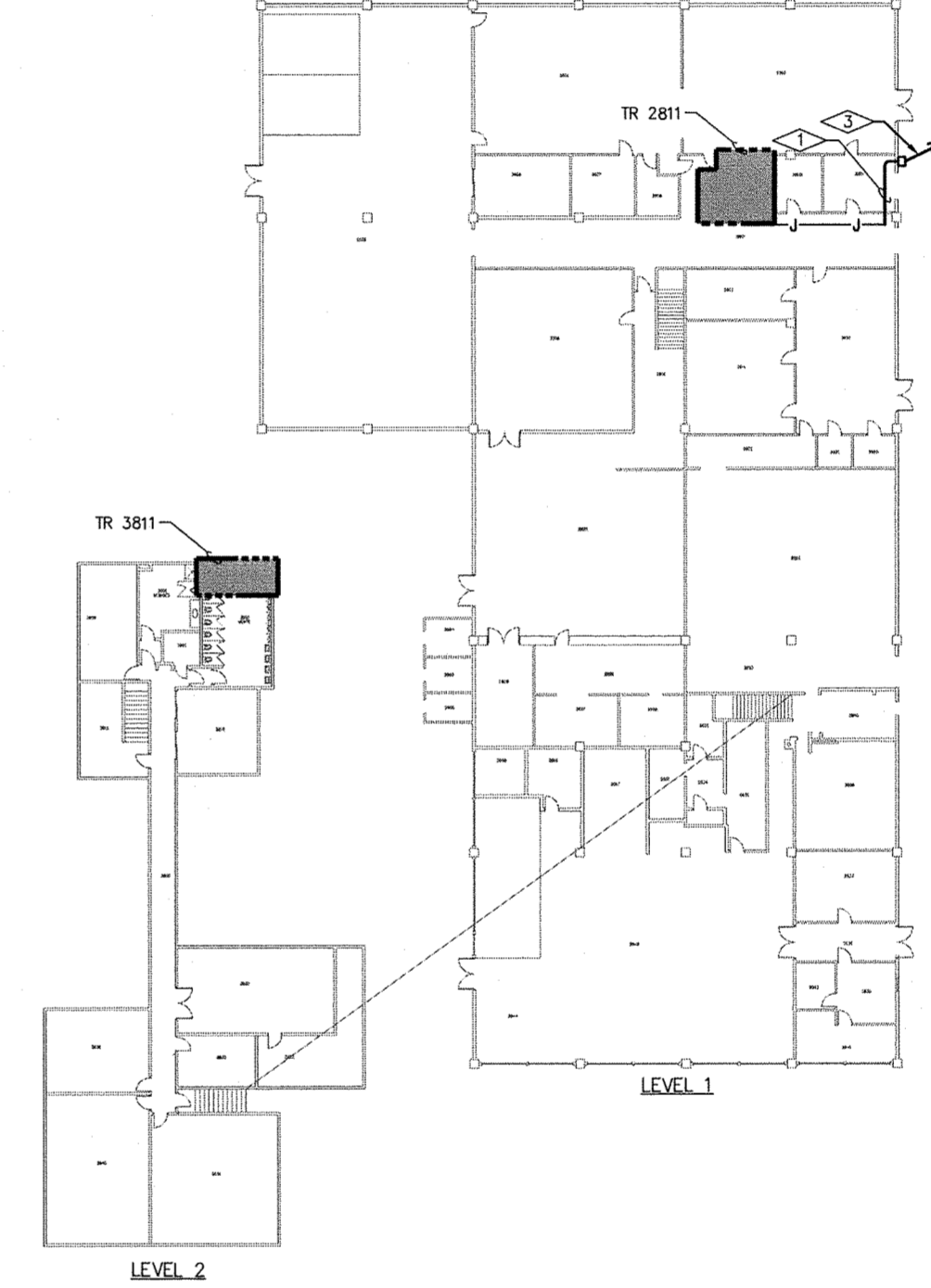
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3. PROVIDE AN 8' SERVICE LOOP AT STATION END OF ALL CABLE RUNS. PROVIDE 25' SERVICE LOOP AT ALL WIRELESS ACCESS POINT LOCATIONS. TERMINATE CABLE ON A SURFACE MOUNT OUTLET BOX.
4. HOMERUN ALL VOICE AND DATA CABLES TO DESIGNATED CONTROL PANELS, PATCH PANELS, OR WALL FIELDS IN TELECOMMUNICATIONS ROOM LOCATED IN THE SAME ZONE. PROVIDE 4-HOOK TYPE CABLE SUPPORTS IN OPEN OR ACCESSIBLE CEILING SPACE AS REQUIRED TO SUPPORT CABLES IN ROUTE TO CABLE TRAY OR CONDUIT PATHWAY TO TELECOMMUNICATIONS ROOM. ROUTE CABLE SUPPORTS SUCH THAT CABLE VISIBILITY WILL BE MINIMIZED IN ANY OPEN CEILING AREAS.
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LEVEL 2 TECHNOLOGY ZONING AND MAJOR PATHWAYS PLAN
SCALE: 1/32"=1'-0"



LEVEL 3 TECHNOLOGY ZONING AND MAJOR PATHWAYS PLAN
SCALE: 1/32"=1'-0"



CONSTRUCTION TECHNOLOGY BUILDING TECHNOLOGY ZONING AND MAJOR PATHWAYS PLAN
SCALE: 1/32"=1'-0"

DRAWING TITLE
LEVELS 2 AND 3 WEST AND CONSTRUCTION TECH ZONING AND MAJOR PATHWAYS PLAN

TITLE
RED ROCKS COMMUNITY COLLEGE DATA CENTER RELOCATE AND TELECOM UPGRADE

CATOR, RUMA & ASSOCIATES CO.
896 TABLER STREET, LAKEWOOD, COLORADO 80401 PHONE: (303) 252-6808 FAX: (303) 233-3701

REVISIONS:
RECORD DRAWINGS 01/06/14

ADDENDUM No.1 12/19/12

DATE: 11/28/12
DRAWN BY: JAI
CHECKED BY: MJM
JOB NO: 2012-120
FILE NAME: p-tech-zone.dwg

SHEET NO.

T2.02

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