

November 18, 2025

Addendum No. 05

File Reference Number: RFP 2025 092

Title: North Bay Car Shop Heating and Ventilation Upgrades

RE: Clarifications/Questions

QUESTIONS / CLARIFICATIONS:

1. **Item 1:** Structural Drawings are referenced in Mechanical Drawings. As these are required for pricing, would ONTC kindly provide?

Answer: Please see Structural Drawings, attached.

2. **Item 2:** Would ONTC please provide the details of the overhead door to be supplied near line 14 of the car shop as shown on Drawing 28994-2379-R08?

Answer: Please see attached Drawing S05. The information on the roll up door can be found on drawing S06 in section 2. It calls out a Clopay Model 157C or approved equivalent.

3. **Item 3:** Detail 2/A02 shows a partition type P1 infill is required beside and above the new door, D120, however partition type P1 does not meet the requirements for a 2hr fire separation. Could ONTC please review and confirm the assembly requirements?

Answer: ONTC advises that Partition Type P1 shall be revised as follows:

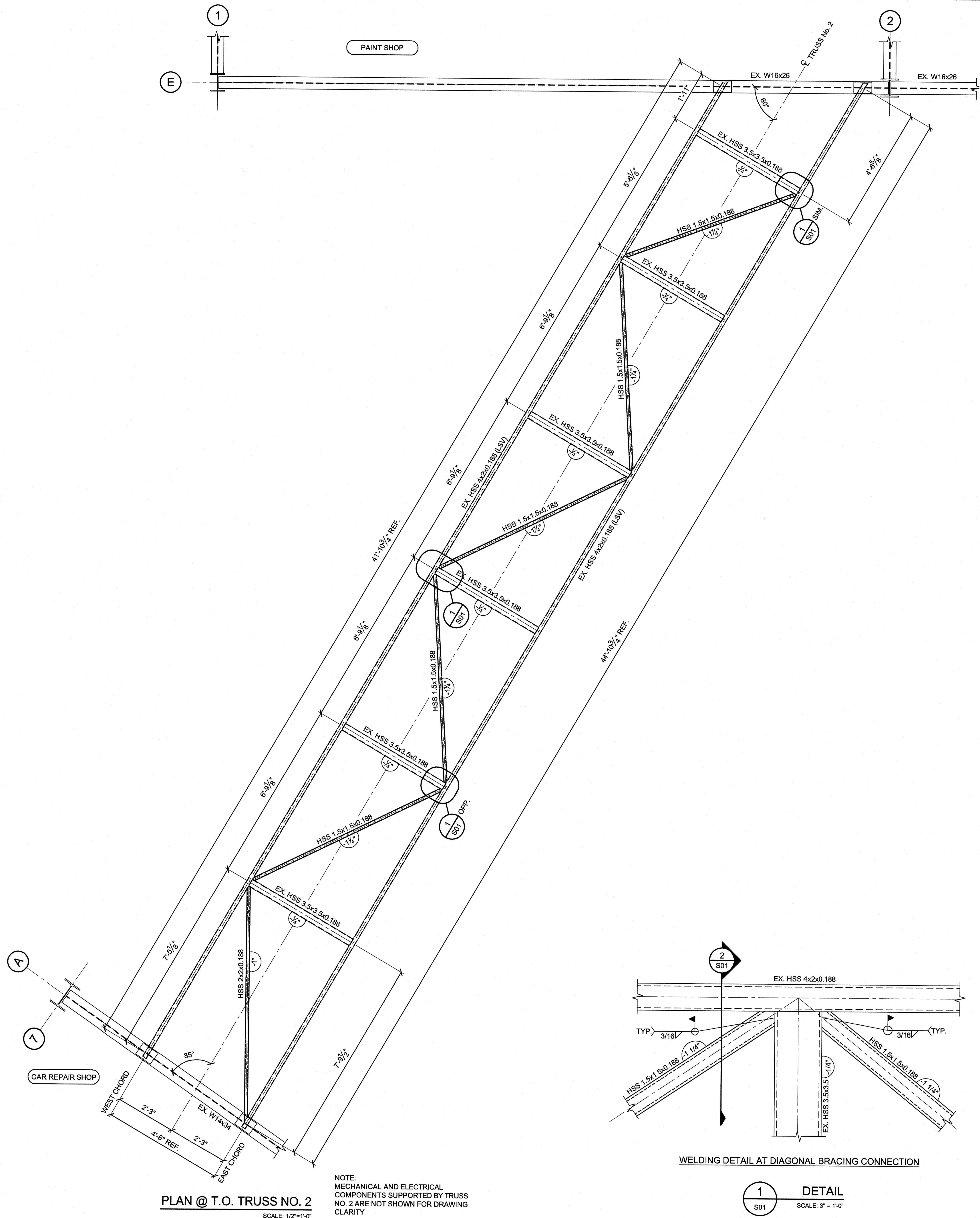
- 5/8" gypsum board type 'x'
- 5/8" gypsum board type 'x'
- resilient channels @ 24" o.c.
- 3-5/8" steel studs @ 16" o.c.
- mineral wool batt insulation
- 5/8" gypsum board type 'x'
- ULC W453 (2 HR FRR)

This Addendum hereby forms part of the RFP.

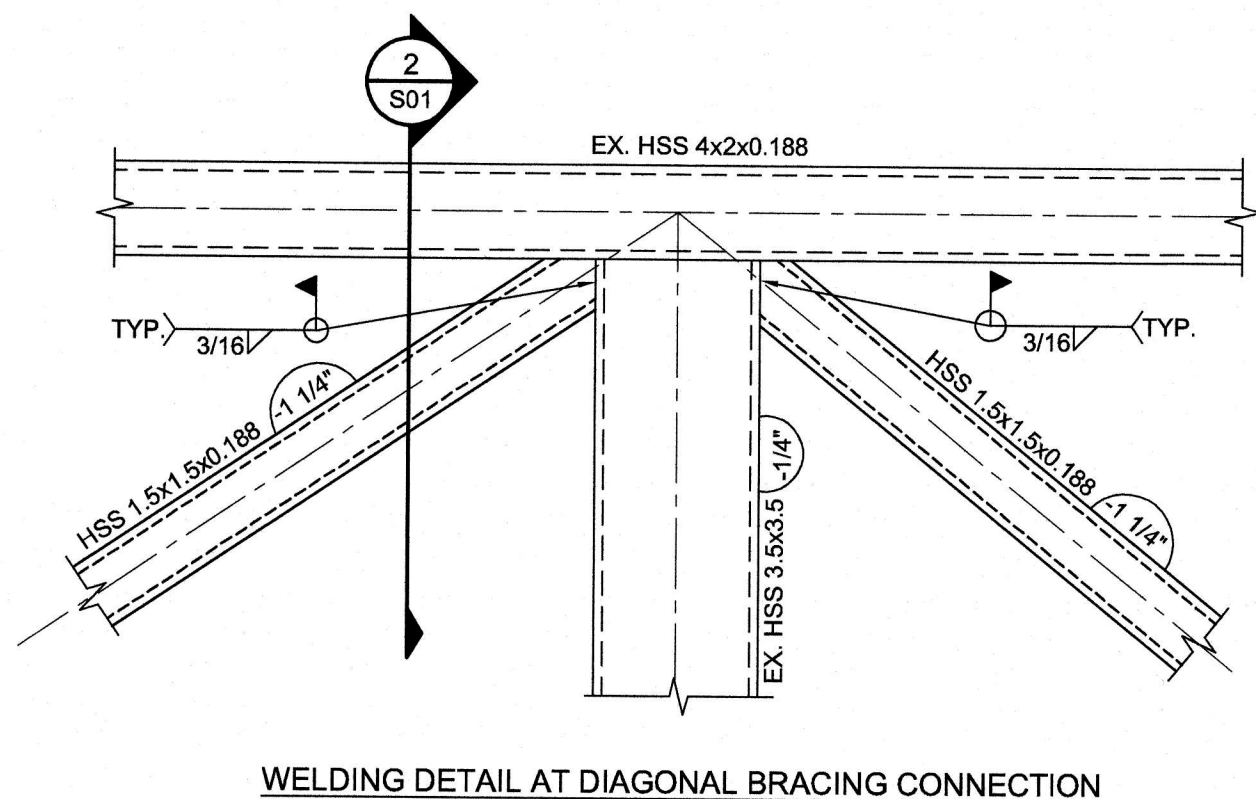
Regards,

Nicole Laplante
Procurement Contracts Specialist
nicole.laplante@ontarionorthland.ca

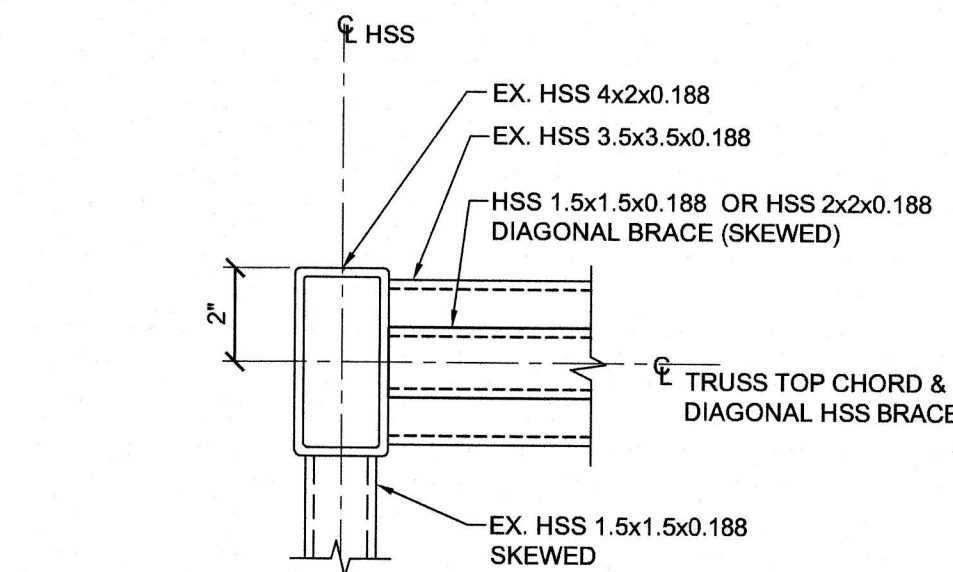
File Location: P:\28994-28994-000- ONTC Heating and Ventilation Upgrades\3-Production\3-Struct\Car Shop\301 Pipe Bridge Repair - Plan Detail & General Notes.dwg



PLAN @ T.O. TRUSS NO. 2
SCALE: 1/2"=1'-0"



1 DETAIL
SCALE: 3"=1'-0"



DIAGONAL BRACING LOCATION ON EX. TOP CHORD

2 SECTION
SCALE: 3"=1'-0"

GENERAL NOTES

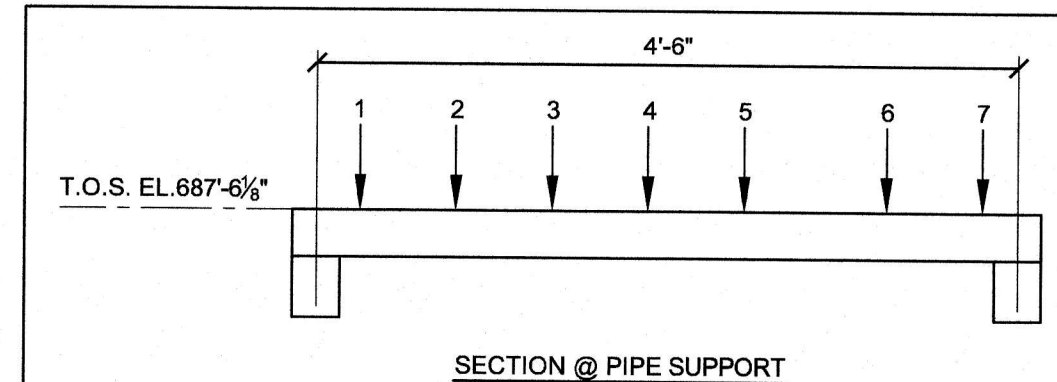
- PERFORM ALL WORK IN ACCORDANCE WITH THE ONTARIO BUILDING CODE 2012 AS MINIMUM STANDARD. OBSERVE ALL LOCAL AND PROVINCIAL REGULATORY REQUIREMENTS AND EXECUTE ALL WORK TO THE REQUIREMENTS OF THE APPLICABLE CSA STANDARDS. ALL WORKMANSHIP TO BE REPRESENTATIVE OF THE HIGHEST INDUSTRY STANDARD.
- COMPLY WITH ALL REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT.
- CONFIRM ALL DIMENSIONS, ELEVATIONS, GRADES AND EXISTING CONDITIONS PRIOR TO COMMENCING THE WORK. REPORT ANY DISCREPANCIES TO THE CONSULTANTS. DIMENSIONS ARE BASED ON AN ORIGINAL DESIGN DRAWING AND MAY NOT ACCURATELY REFLECT ACTUAL FIELD CONDITIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SHORING OR SUPPORT STRUCTURES REQUIRED TO COMPLETE THE WORK. WHEN REQUESTED BY THE CONSULTANT, THE CONTRACTOR IS TO PROVIDE SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO FOR ANY SUCH TEMPORARY STRUCTURES.
- CONTRACTOR TO PROVIDE TEMPORARY SUPPORT FOR THE PIPE TRESTLE TO REMOVE ALL DEFLECTION OF THE STRUCTURE PRIOR TO INSTALLATION OF ADDED MEMBERS.
- DO NOT SCALE THE DRAWINGS.

STRUCTURAL STEEL

- STRUCTURAL STEEL FABRICATION AND ERECTION TO BE IN ACCORDANCE WITH CAN/CSA S16-09 DESIGN OF STEEL STRUCTURES AND THE "CANADIAN INSTITUTE OF STEEL HANDBOOK OF STEEL CONSTRUCTION, TENTH EDITION".
- ALL STRUCTURAL STEEL TO CONFORM TO:
 - HOLLOW STRUCTURAL SECTIONS (HSS) TO CAN/CSA G40.20/G40.21, GRADE 350W, CLASS 'C'
 - ALL WELDING TO BE DONE BY QUALIFIED WELDERS FULLY APPROVED FOR STRUCTURAL WELDING BY THE CANADIAN WELDING BUREAU IN ACCORDANCE WITH CSA SPECIFICATION W47.1-09.
 - WELDING IN ACCORDANCE WITH CSA W59 AND SUITABLE FOR USE INTENDED. ALL ELECTRODES TO BE E49XX TO CAN/CSA, W48 LATEST EDITION.
- PAINT COATING SYSTEM:
 - ALL STRUCTURAL STEEL SURFACES SHALL BE PREPARED IN ACCORDANCE WITH SSPC-SP1 AND SSPC-SP3
 - THE TOTAL DRY FILM THICKNESS (DFT) SHALL NOT BE LESS THAN 8.0 MILS AT ANY POINT. THE PRIME COAT MUST BE TINTED TO EASILY DISTINGUISH IT FROM THE FINISH COAT.
- PRIME COAT - 4.0 MILS DRY FILM THICKNESS
 - AMERLOCK 400 BY AMERON COATINGS
 - BAR - RUST 235 BY DEVCO COATING
 - CARBOGUARD 890 BY CARBOLINE
 - DURA - PLATE 235 BY SHERWIN - WILLIAMS COMPANY
 - INTERSEAK 670 HS BY INTERNATIONAL PROTECTIVE COATINGS
- FINISH COAT - 4.0 MILS DRY FILM THICKNESS
 - AMERLOCK 400 BY AMERON COATINGS
 - BAR - RUST 235 BY DEVCO COATINGS
 - CARBOGUARD 890 BY CARBOLINE
 - DURA - PLATE 235 BY SHERWIN - WILLIAMS COMPANY
 - INTERSEAL 670 HS BY INTERNATIONAL PROTECTIVE COATINGS
- STRUCTURAL STEEL SUPPLIER TO SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION.

DESIGN LOADS

A. LOADS FROM PIPES (UNFACTORED):



PIPE NO.	PIPE SIZE	MEDIA TYPE	DEAD LOAD (LB/FT)	LIVE LOAD (LB/FT)	SNOW LOAD (LB/FT)
1	3"	GAS	7.6	0.4	14.7
2	6"	AIR	19.0	0.4	21.8
3	1"	WATER	1.7	0.3	3.0
4	4"	GAS	10.8	0.7	17.0
5	*12"	WATER	53.5	49.0	37.9
6	*12"	WATER	53.5	49.0	37.9
7	4"	GAS	10.8	0.7	17.0

*PIPING SIZE ASSUMED FOR PROPOSED ADDITIONAL PIPES

B. WIND LOADS ON PIPING:

DESIGN PARAMETERS (NBCC 2010, FIGURE I-24)

$$F_n = C_f \times C_{nt} \times q \times C_g \times C_e \times A \times I_w$$
$$C_f = 1.3$$
$$C_{nt} = 1.0$$
$$q = 0.34 \text{ kPa (FOR NORTH BAY, ONTARIO, 1 IN 50 YEAR RETURN PERIOD)}$$
$$C_e = 2.5$$
$$C_g = (h/10)^{0.20} \text{ (BUT NOT LESS THAN 0.9, OPEN TERRAIN)}$$
$$h = \text{HEIGHT OF PIPE FROM GRADE}$$
$$I_w = 1.0 \text{ (NORMAL UNDER ULS LOADING)}$$
$$I_w = 0.75 \text{ (NORMAL UNDER SLS LOADING)}$$

C. WIND LOADS ON TRESTLE:

DESIGN PARAMETERS (NBCC 2010, FIGURE I-30)

$$F_n = k \times C_{nt} \times q \times C_g \times C_e \times A \times I_w$$
$$k = 1.0$$
$$C_{nt} = \text{VARIES}$$
$$q = 0.34 \text{ kPa (NORTH BAY, ONTARIO, 1 IN 50 YEAR RETURN PERIOD)}$$
$$C_e = 2.0$$
$$C_g = (h/10)^{0.20} \text{ (BUT NOT LESS THAN 0.9, OPEN TERRAIN)}$$
$$A = \text{AREA OF MEMBER VARIES}$$
$$I_w = 1.0 \text{ (NORMAL UNDER ULS LOADING)}$$
$$I_w = 0.75 \text{ (NORMAL UNDER SLS LOADING)}$$

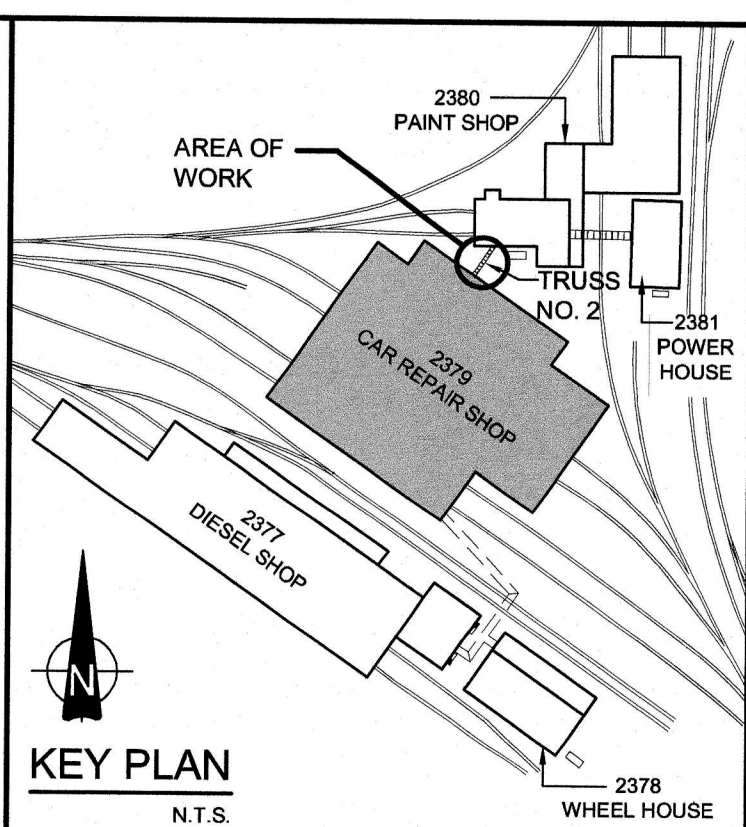
D. SNOW LOADS:

$$S = I_s (S_s + S_r)$$
$$I_s = 1.0 \text{ (NORMAL UNDER ULS LOADING)}$$
$$I_s = 0.9 \text{ (NORMAL UNDER SLS LOADING)}$$
$$S_s = 2.2 \text{ kPa (48.0 psf)}$$
$$S_r = 0.4 \text{ kPa (8.4 psf)}$$
$$\text{ICE ACCRETION} = 0.10 \text{ kPa (2.1 psf)}$$

E. DEAD LOAD:

STRUCTURAL STEEL SELF WEIGHT

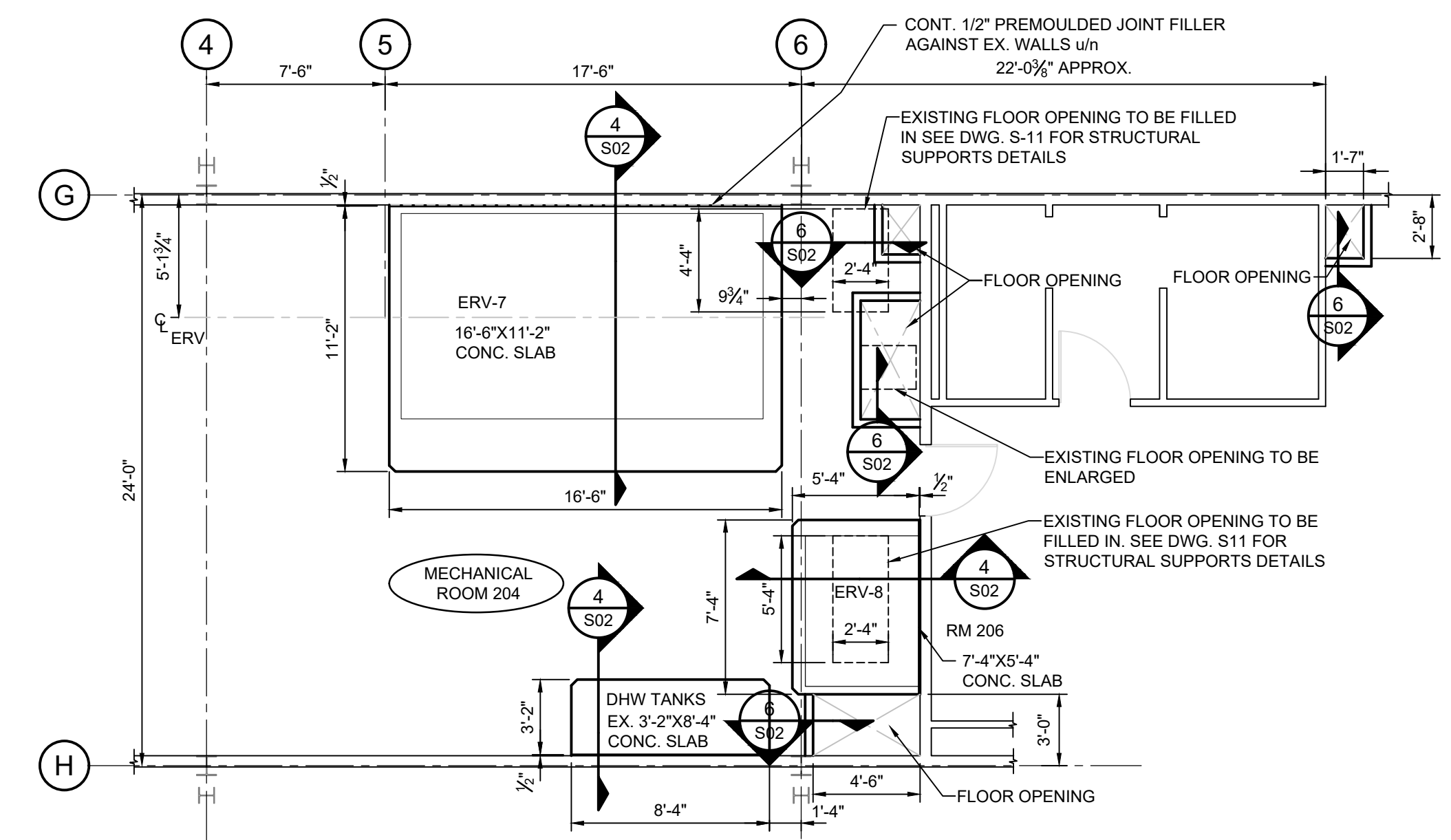
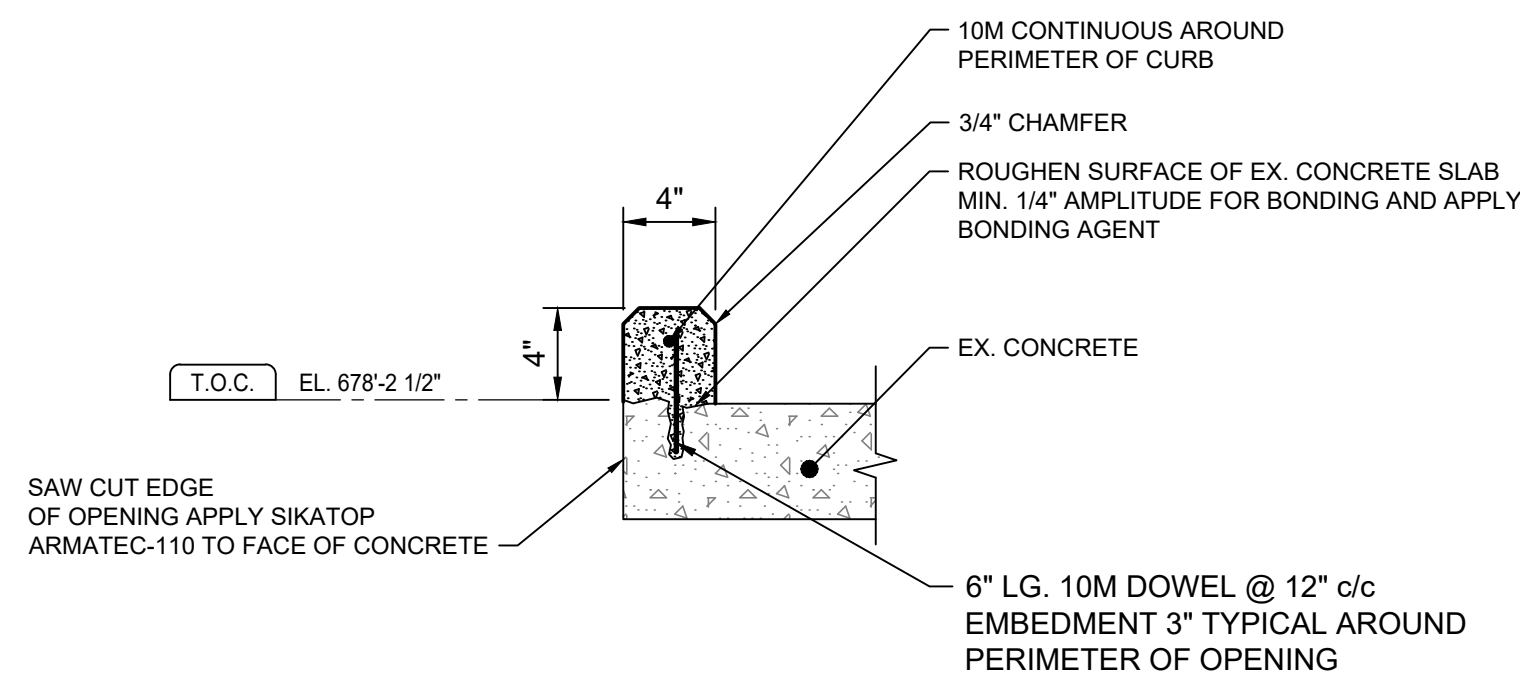
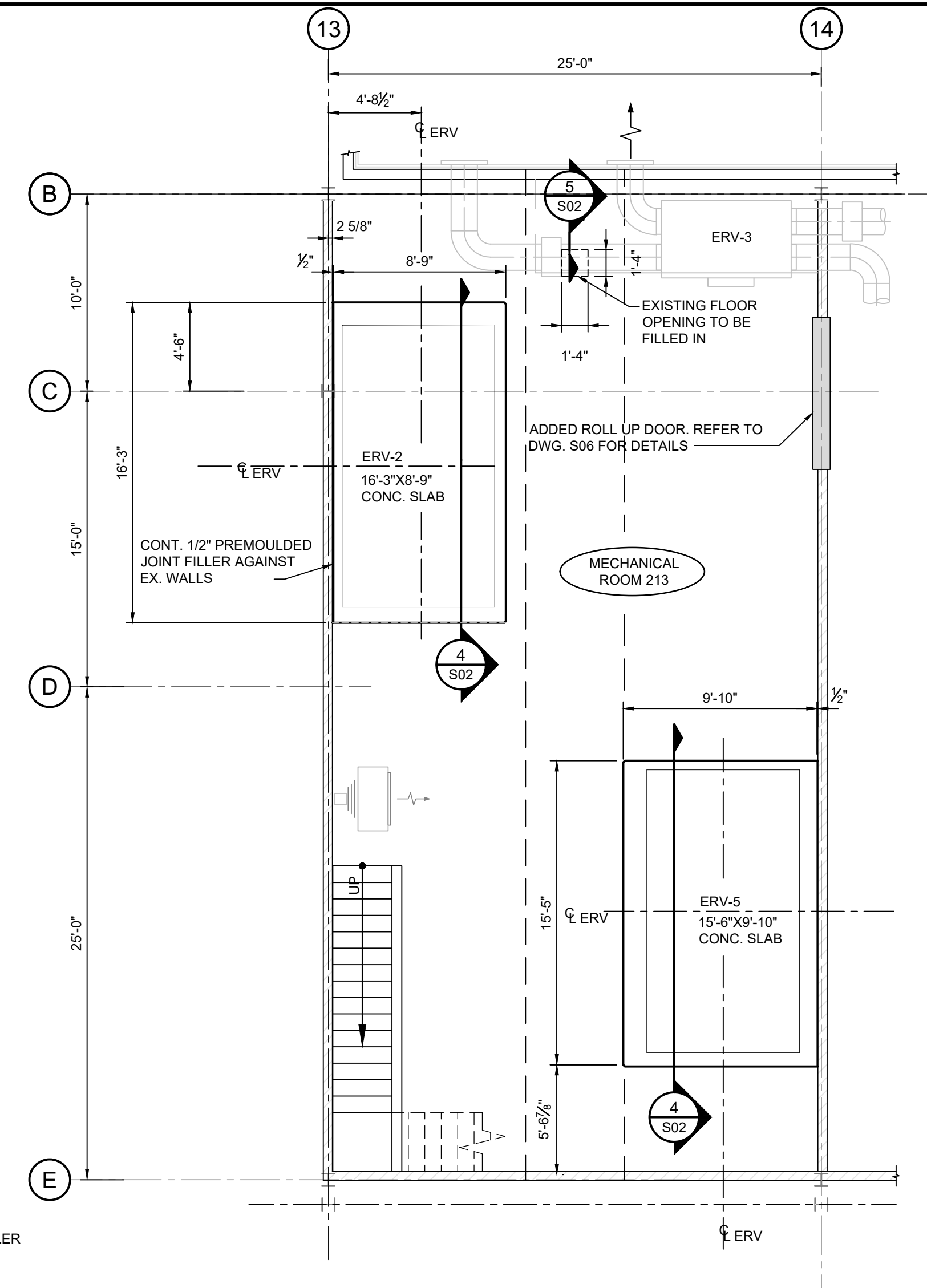
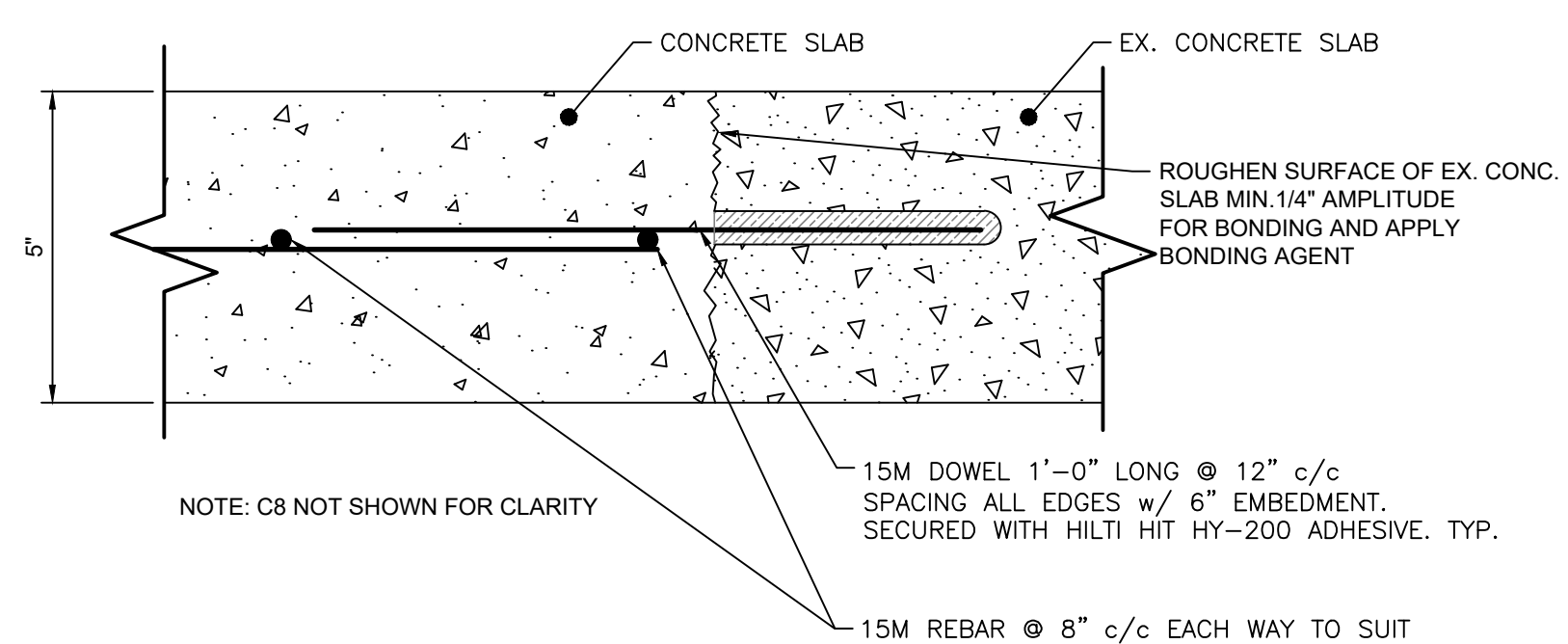
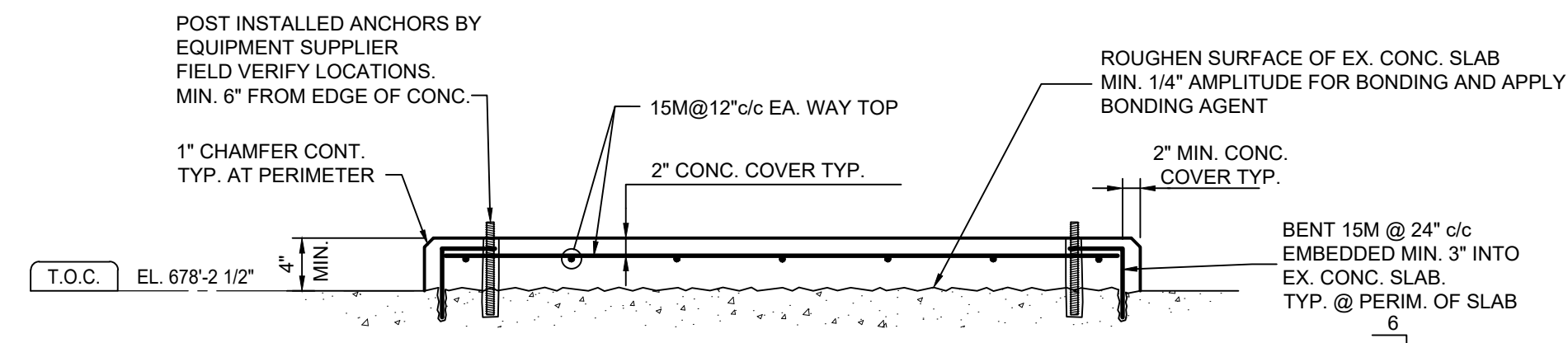
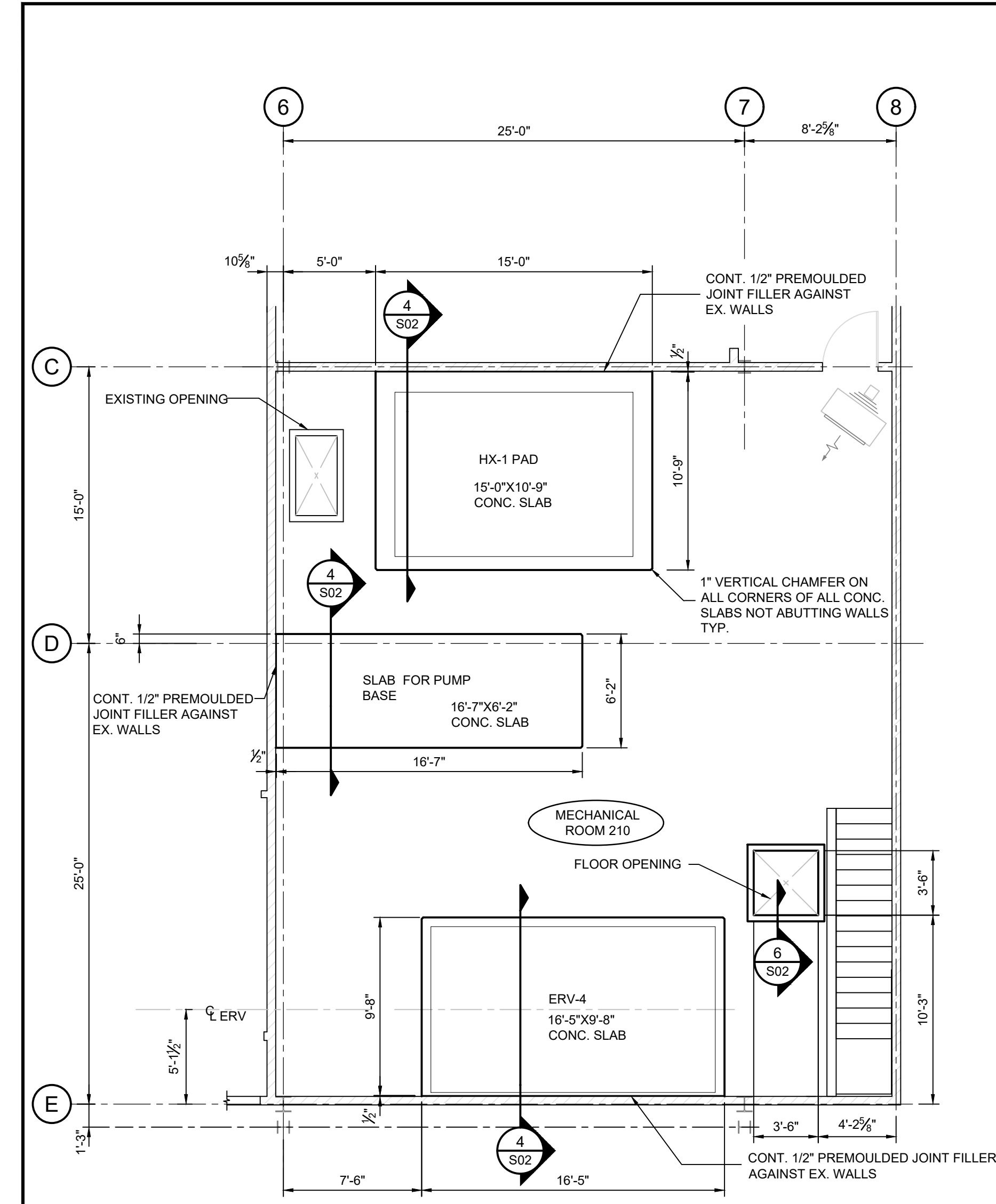
REFERENCE DRAWING NO. 5473-S17 REV. 'F', NOV. 1975 BY COLE, SHERMAN & ASSOCIATES LIMITED.



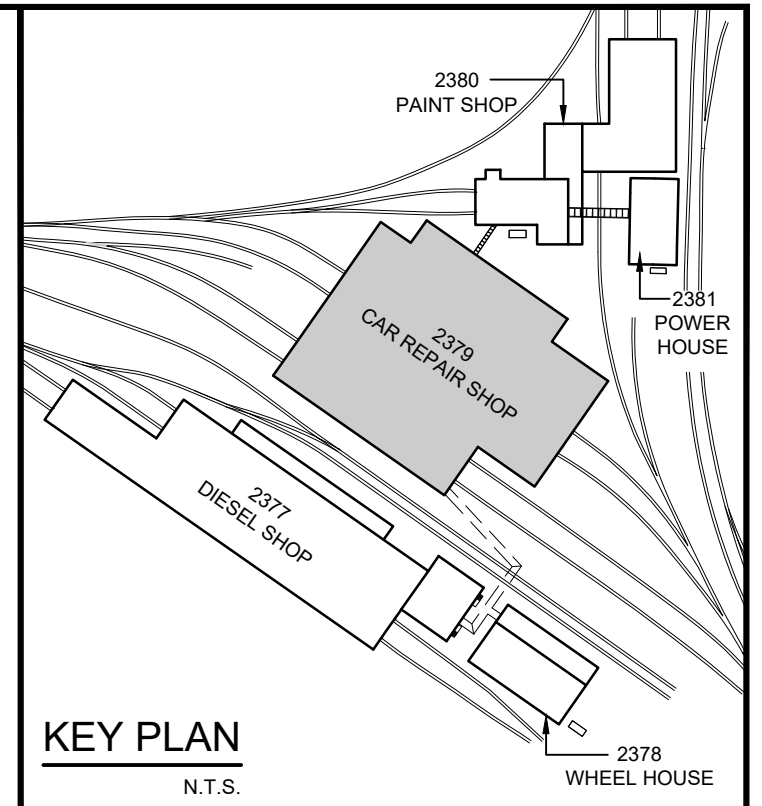
1 ISSUED FOR CONSTRUCTION 04/12/19	
No.	ISSUE / REVISION
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VERIFY SHEET SIZE AND SCALES BAR TO THE RIGHT IS 1" IF THIS IS A FULL SIZE DRAWING.	
SCALE: 0 1'	
CLIENT:	
CONSULTANT: www.jrichards.ca	
PROFESSIONAL STAMP	PROFESSIONAL STAMP
PROFESSIONAL STAMP	PROJECT NORTH
PROJECT: ONTC HEATING AND VENTILATION UPGRADES 2379 - CAR REPAIR SHOP NORTH BAY, ONTARIO	
DRAWING: TRUSS NO. 2 PLAN, DETAIL, SECTION & GENERAL NOTES	
DESIGN: BP/TBL	DRAWING #
DRAWN: MNM	28994-2379-S01
CHECKED: LLG	
JLR #	28994

PLOT DATE: Wednesday, December 4, 2019 2:03:31 PM

File Location: P:\28900\28904\000 - ONTC Heating and Ventilation Upgrades\3-Production\3-Struct\Car Shop\S02 Concrete Pad Plan.dwg



- NOTE:
1. REMOVE EXISTING CONCRETE EQUIPMENT PADS BEFORE INSTALLING REPLACED CONCRETE EQUIPMENT PADS.
 2. DO NOT DAMAGE EX. FLOOR SLAB.
 3. SEE DRAWING 28994-2379-R07 FOR EXISTING CONCRETE PAD LOCATIONS
 4. READ THIS DRAWING IN CONJUNCTION WITH MECHANICAL DWG. M15
 5. VERIFY EQUIPMENT LOCATIONS AND REQUIRED PAD SIZES PRIOR TO PAD INSTALLATION.



REFER TO DWG. 5473-S6 FOR EXISTING CONCRETE PADS FOR REMOVAL

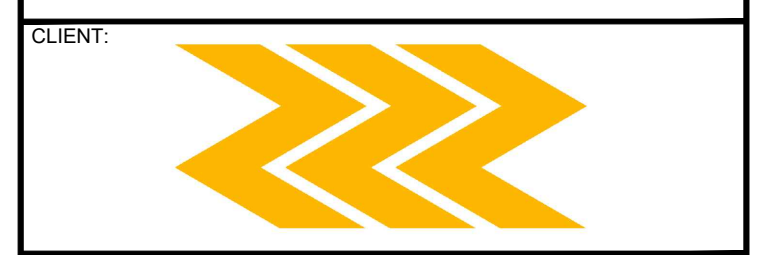
REFER TO DWG. 28994-2379-S00 FOR GENERAL NOTES.

0	ISSUED FOR RFP	26/03/21
No.	ISSUE / REVISION	DDMMYY

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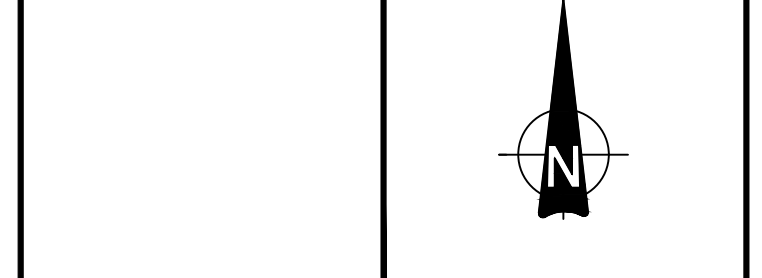


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PROJECT NORTH



PROJECT:

ONTC HEATING AND VENTILATION UPGRADES
2379 - CAR REPAIR SHOP

NORTH BAY, ONTARIO

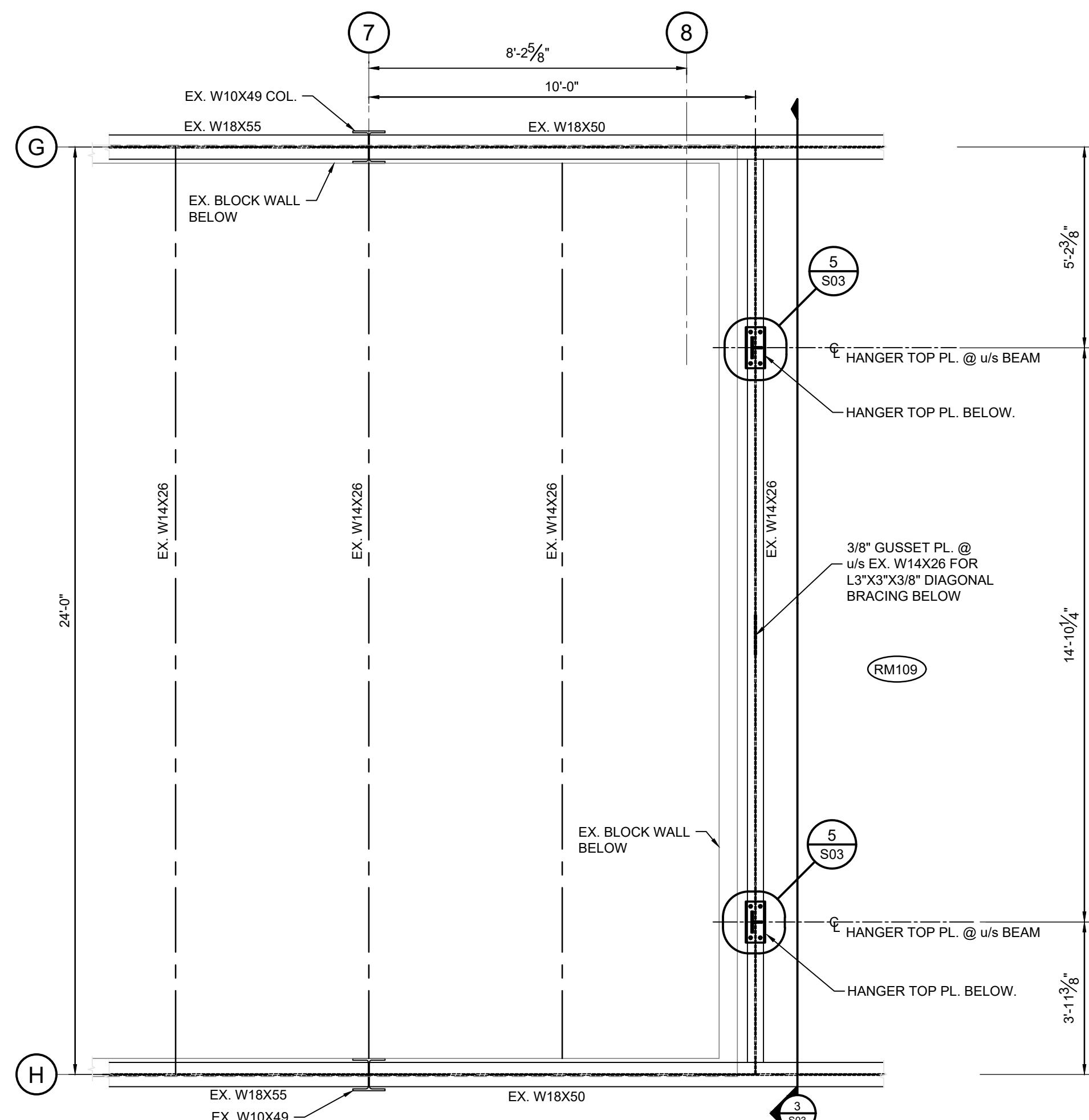
DRAWING:

MECHANICAL EQUIPMENT CONCRETE SECOND FLOOR PLANS AND DETAIL

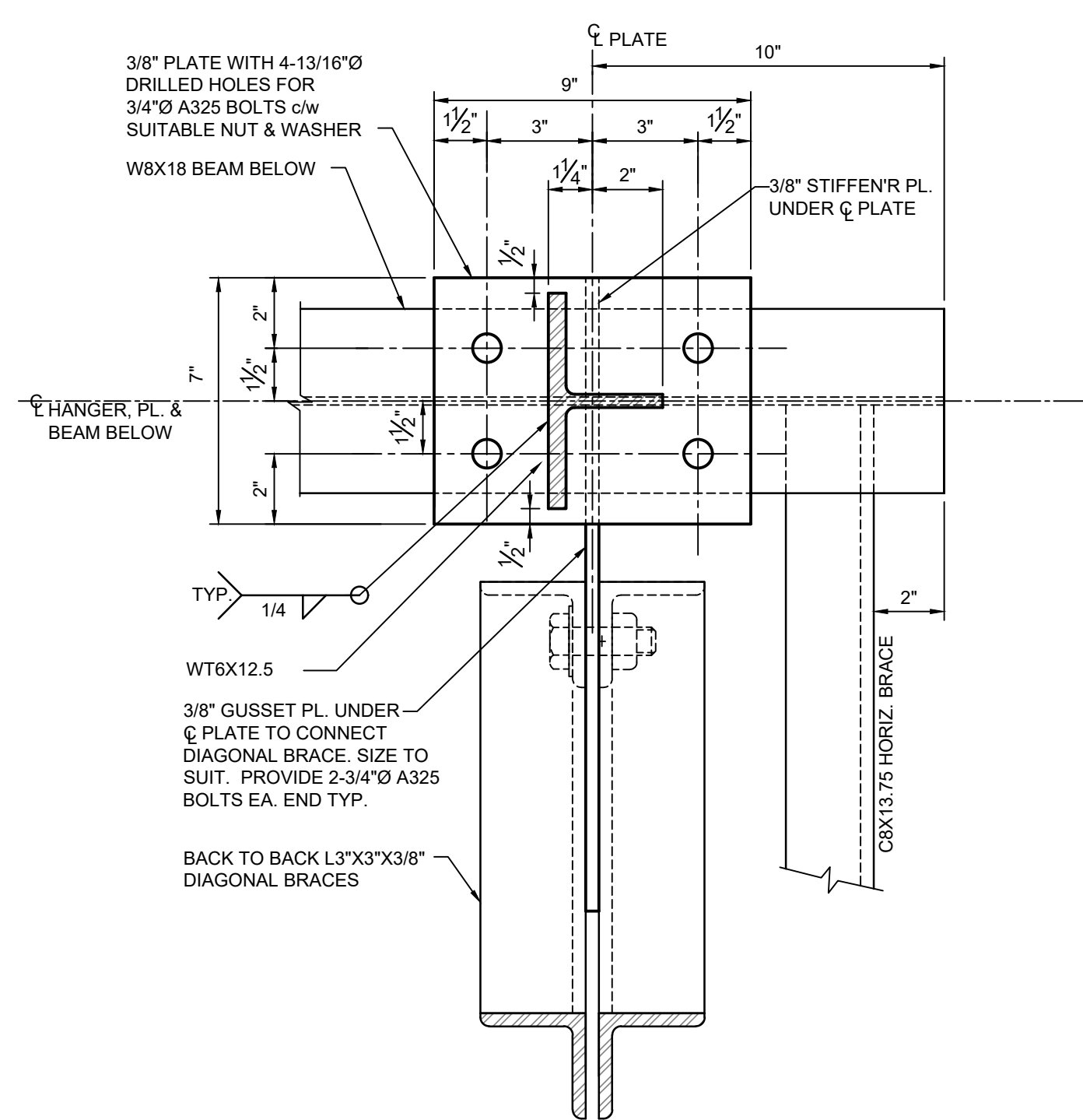
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DRAWN: M.H.	28994-2379-S02
CHECKED: T.L.	
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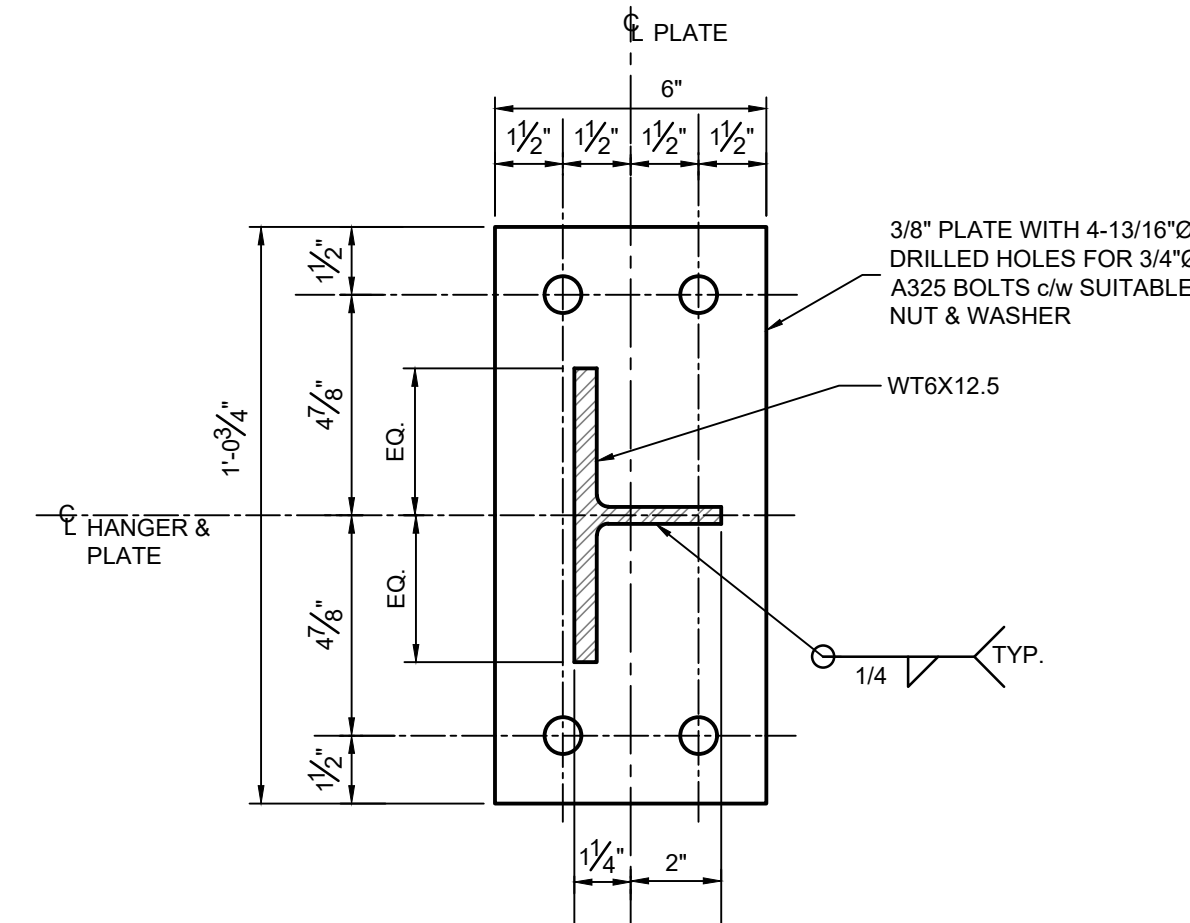
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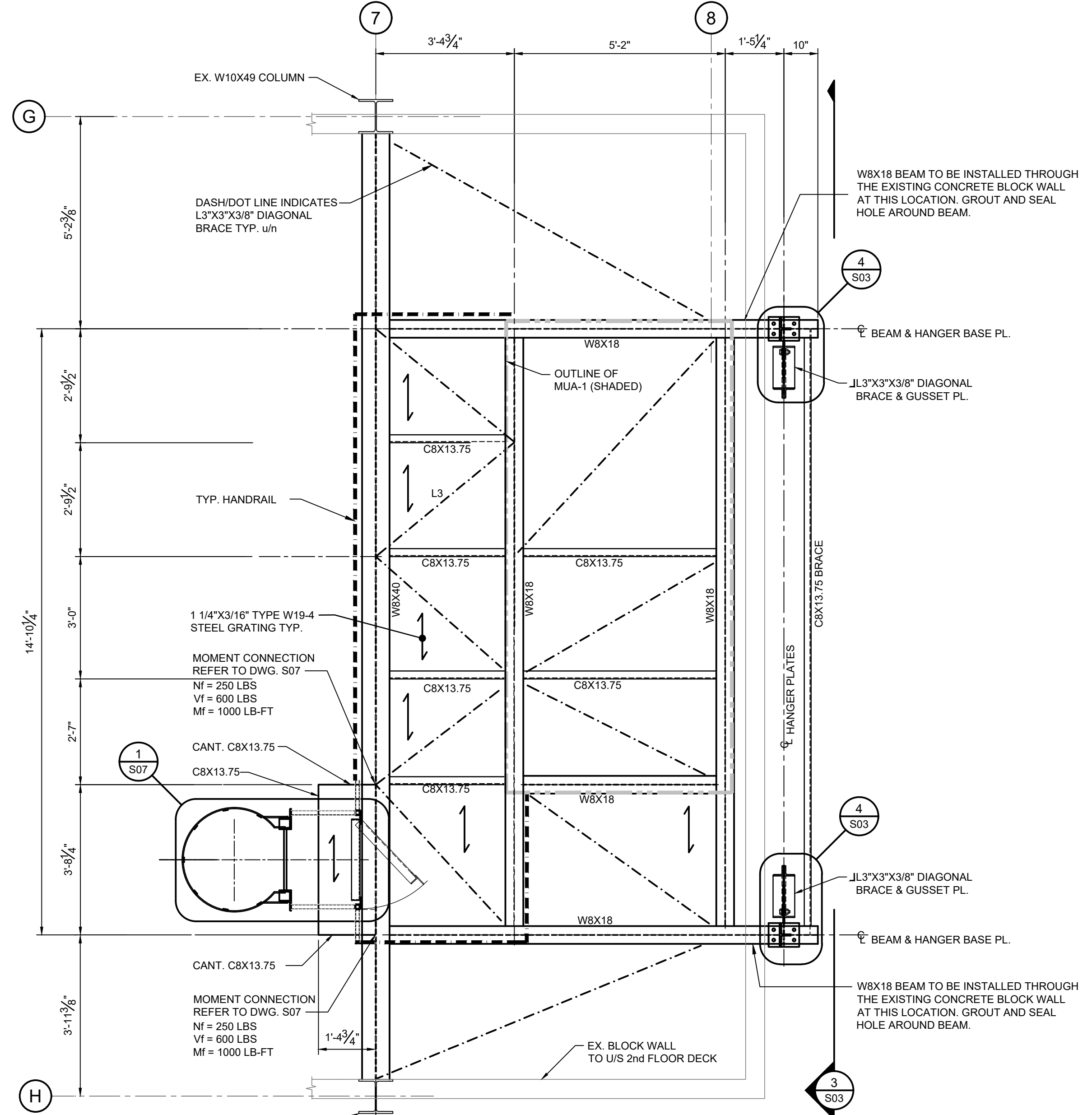
1 PART STEEL FRAMING PLAN @ T.O.S. EL. 677'-9 1/2"
SCALE: 3/8" = 1'-0"



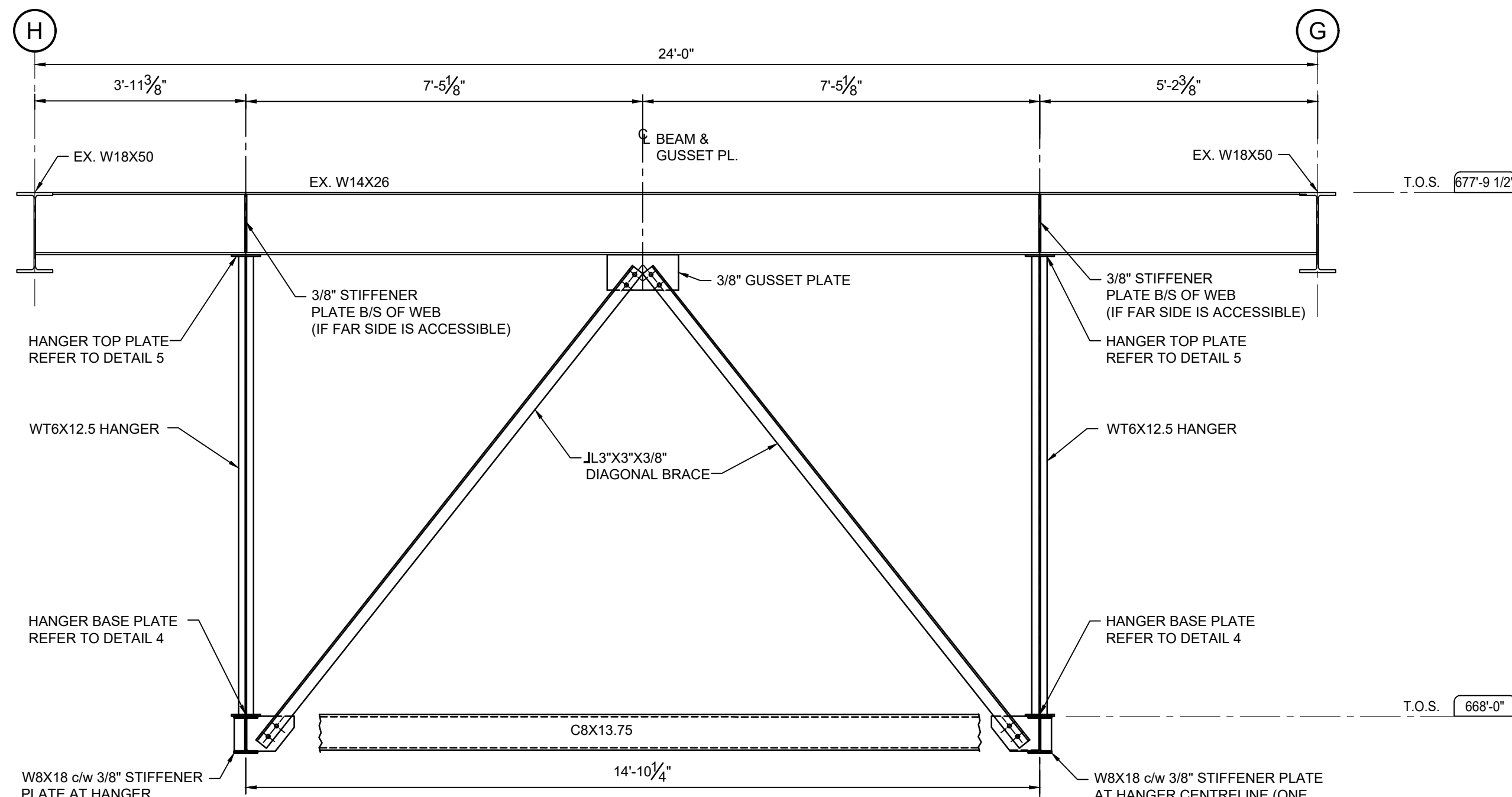
4 TYPICAL HANGER BASE PLATE
SCALE: 3" = 1'-0"



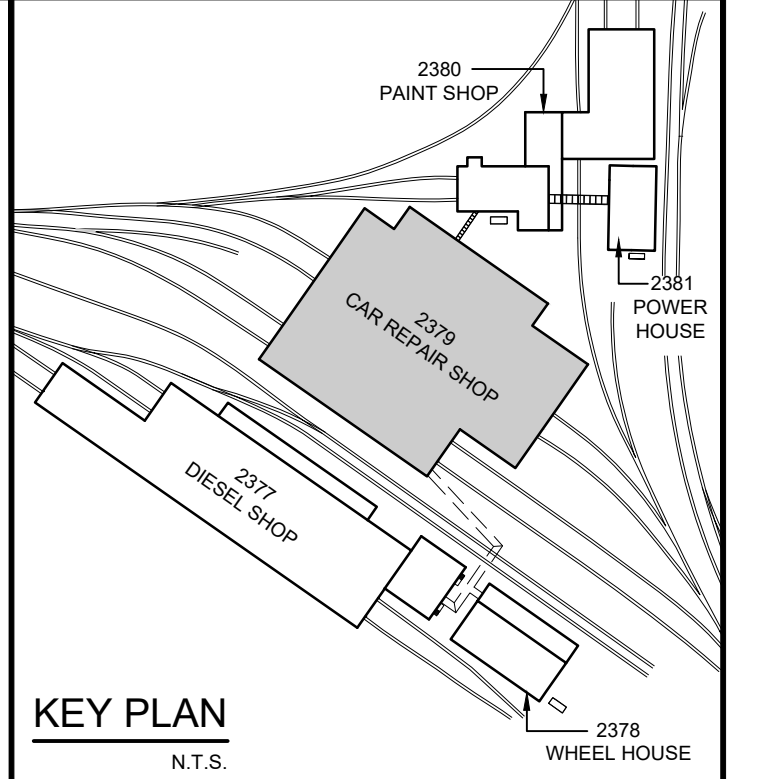
5 TYPICAL HANGER TOP PLATE
SCALE: 3" = 1'-0"



2 PART PLAN @ T.O.S. EL. 668'-0"
SCALE: 1/2" = 1'-0"



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



REFER TO DWG. 28994-2379-S00 FOR GENERAL NOTES.
REFER TO DWG. 5473-S8 FOR 2nd FLOOR STEEL PLAN
REFER TO DWG. 28994-2379-S07 FOR DETAILS

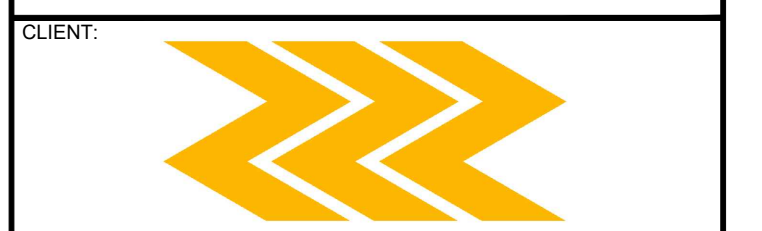
DESIGN LOADS:
DEAD LOADS:
SELF WEIGHT OF STEEL = APPROX. 2500 lbs
SELF WEIGHT OF MUA-1 = 2500lbs
LIVE LOADS:
OCCUPANCY LOAD = 75 psf

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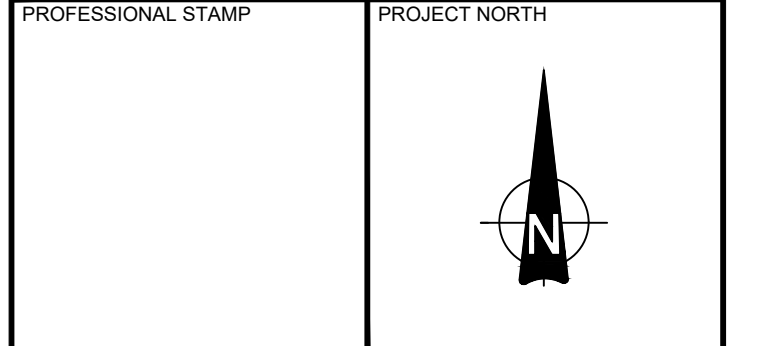


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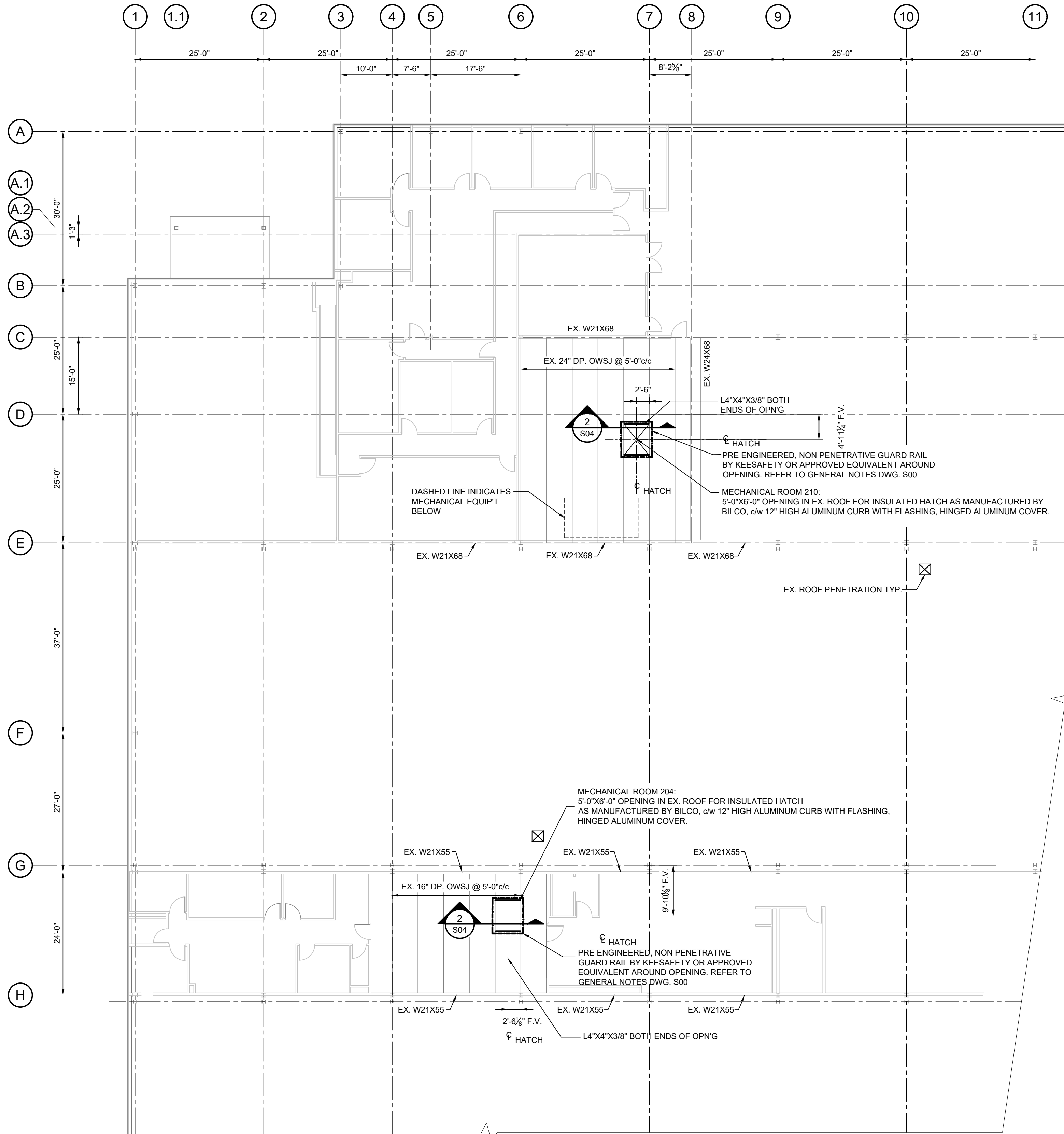
PROJECT:
ONTC HEATING AND VENTILATION UPGRADES
2379 - CAR REPAIR SHOP
NORTH BAY, ONTARIO

DRAWING:
MUA UNIT SUPPORT PLATFORM
PLAN, SECTIONS & DETAILS

DESIGN: B.P.	DRAWING #:
DRAWN: M.M.	28994-2379-S03
CHECKED: T.L.	
JLR #: 28994	

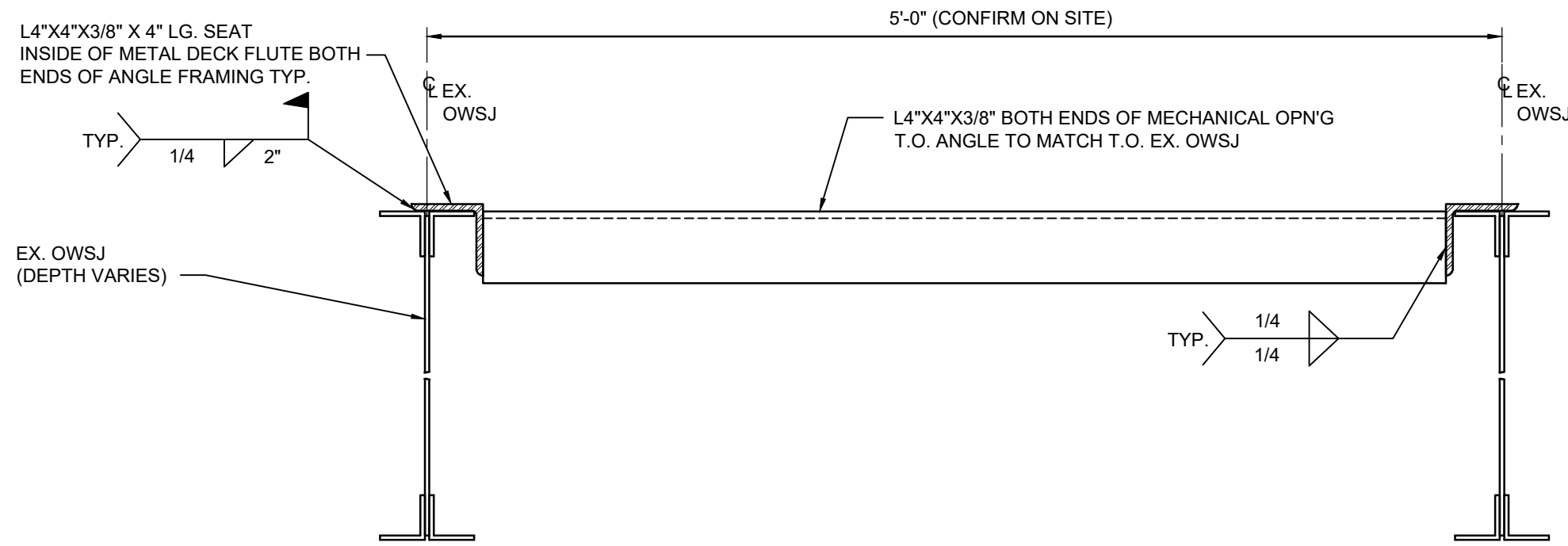
PLOT DATE: March 26, 2021 9:39:44 AM

File Location: P:\2800028994-000 - ONTC Heating and Ventilation Upgrades\Production\3-Struct\Car Shop\S04-EXISTING ROOF FRAMING PLAN SHOWING OPENINGS.dwg



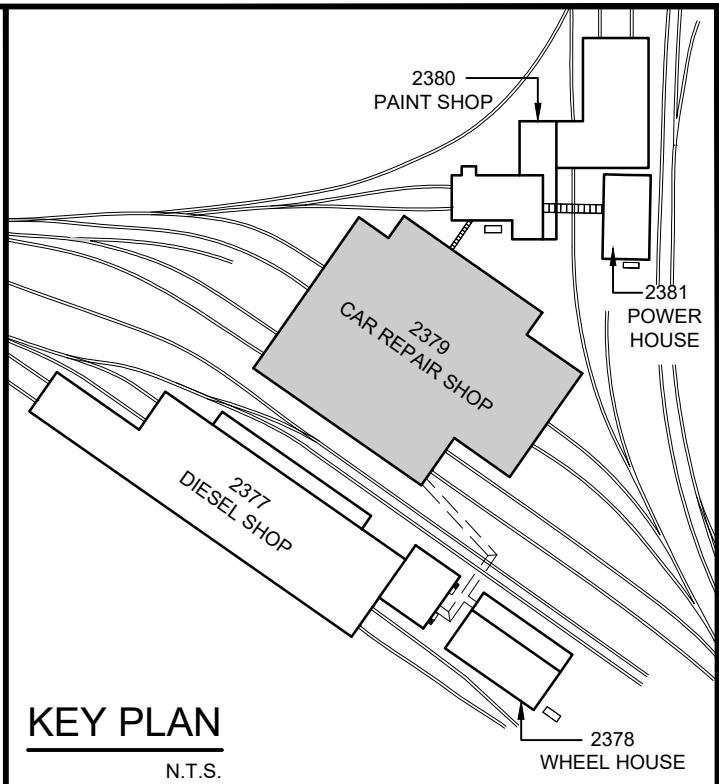
1 ROOF FRAMING PLAN SHOWING HATCH OPENINGS
S04 SCALE: 3/16" = 1'-0"

NOTE:
NOT ALL ROOF FRAMING MEMBERS SHOWN FOR CLARITY.
REFER TO DWG. 5473-S7 FOR EXISTING ROOF FRAMING



2 TYPICAL SECTION - FRAMING AT HATCH OPENING IN ROOF
S04 SCALE: 1 1/2" = 1'-0"

NOTE:
ROOF DECK, ROOFING AND HATCH NOT SHOWN FOR CLARITY.



KEY PLAN
N.T.S.

REFER TO DWG. S00 FOR GENERAL NOTES.
REFER TO DWG. A01 FOR ARCHITECTURAL DETAILS.

0 ISSUED FOR RFP 26/03/2021

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PROJECT:

ONTC HEATING AND
VENTILATION UPGRADES
2379 - CAR REPAIR SHOP
NORTH BAY, ONTARIO

DRAWING:

ROOF OPENINGS FOR HATCHES
PLAN AND SECTION

DESIGN: B.P.

DRAWN: M.M.

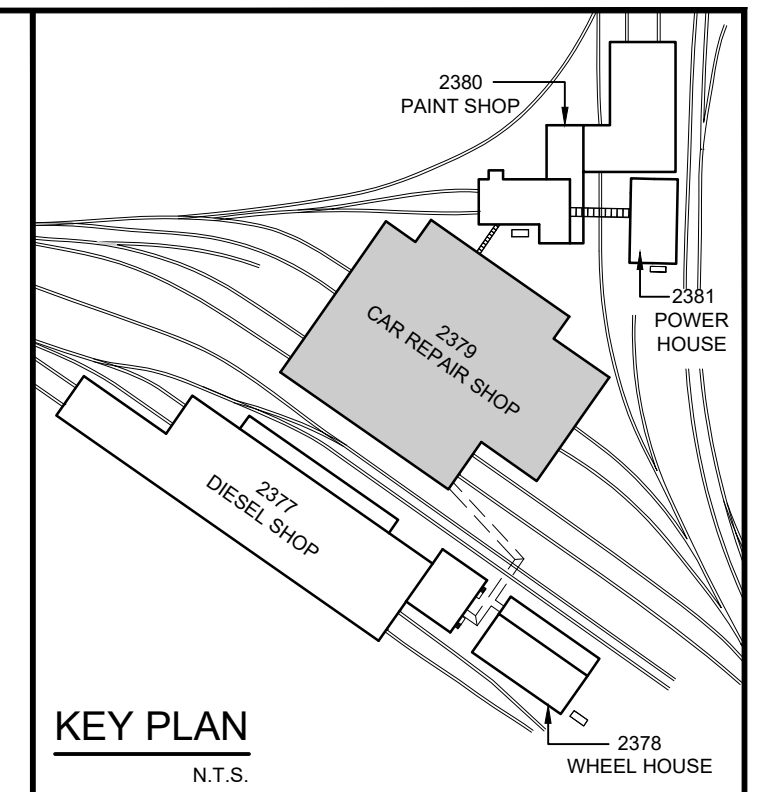
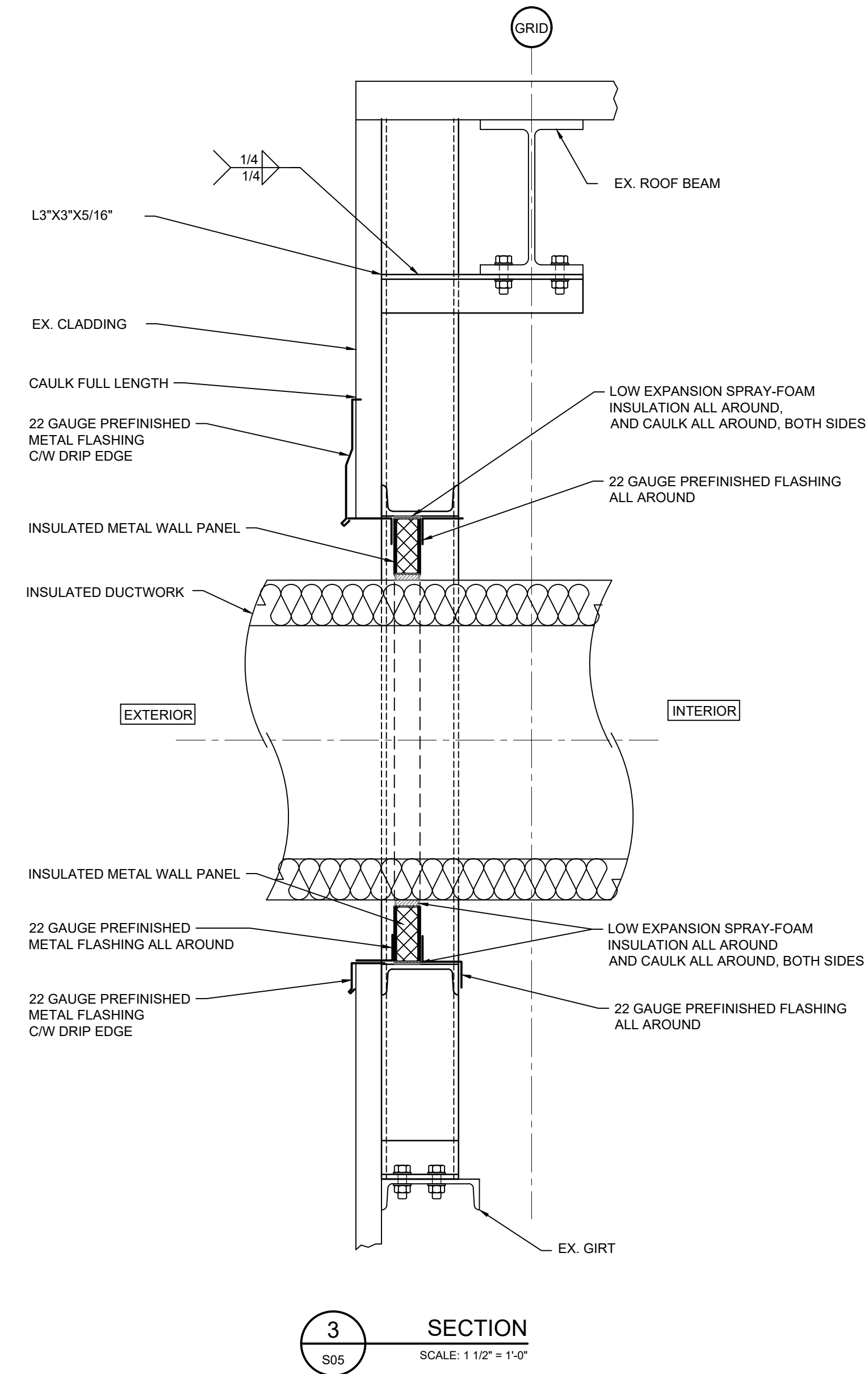
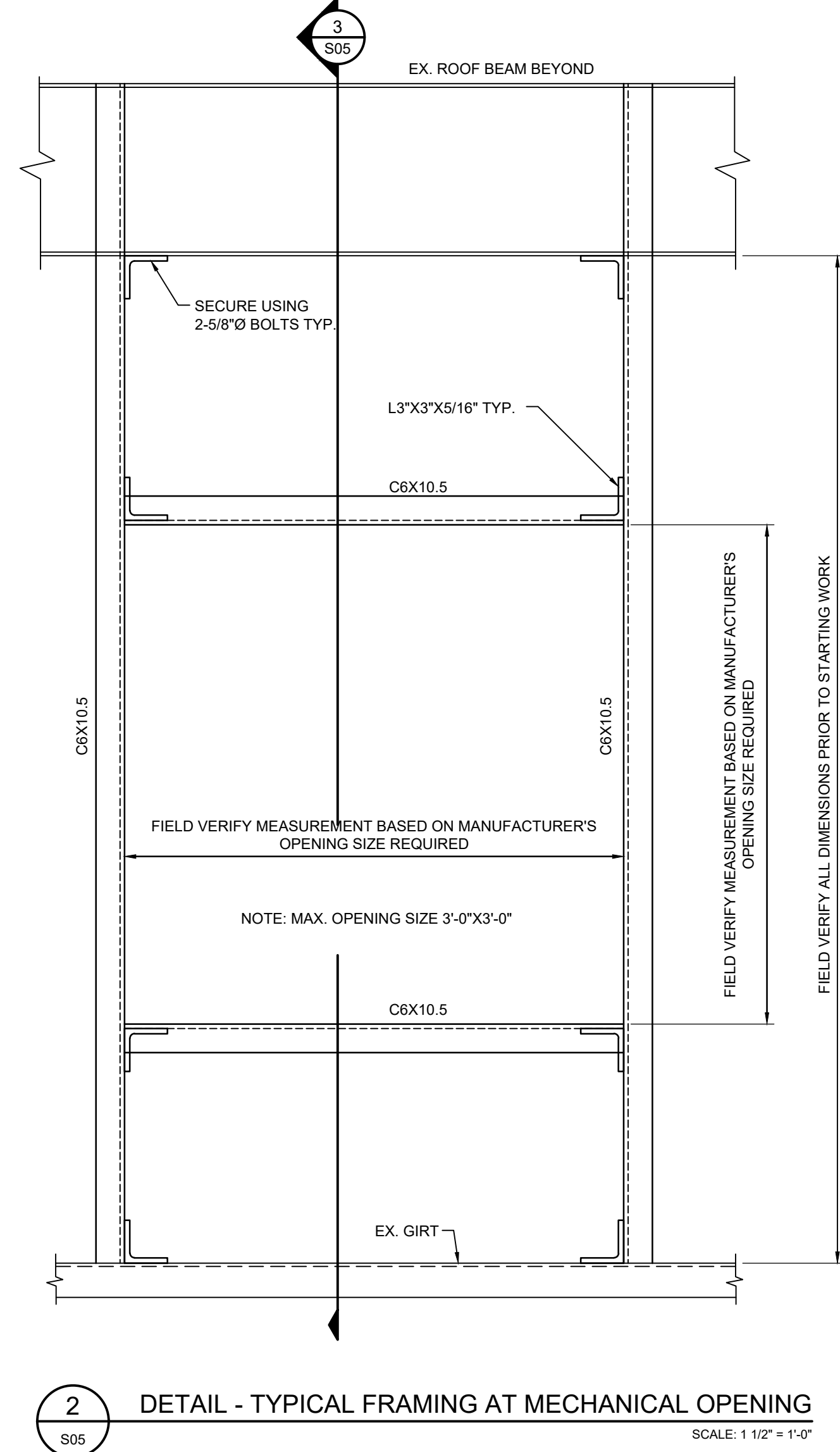
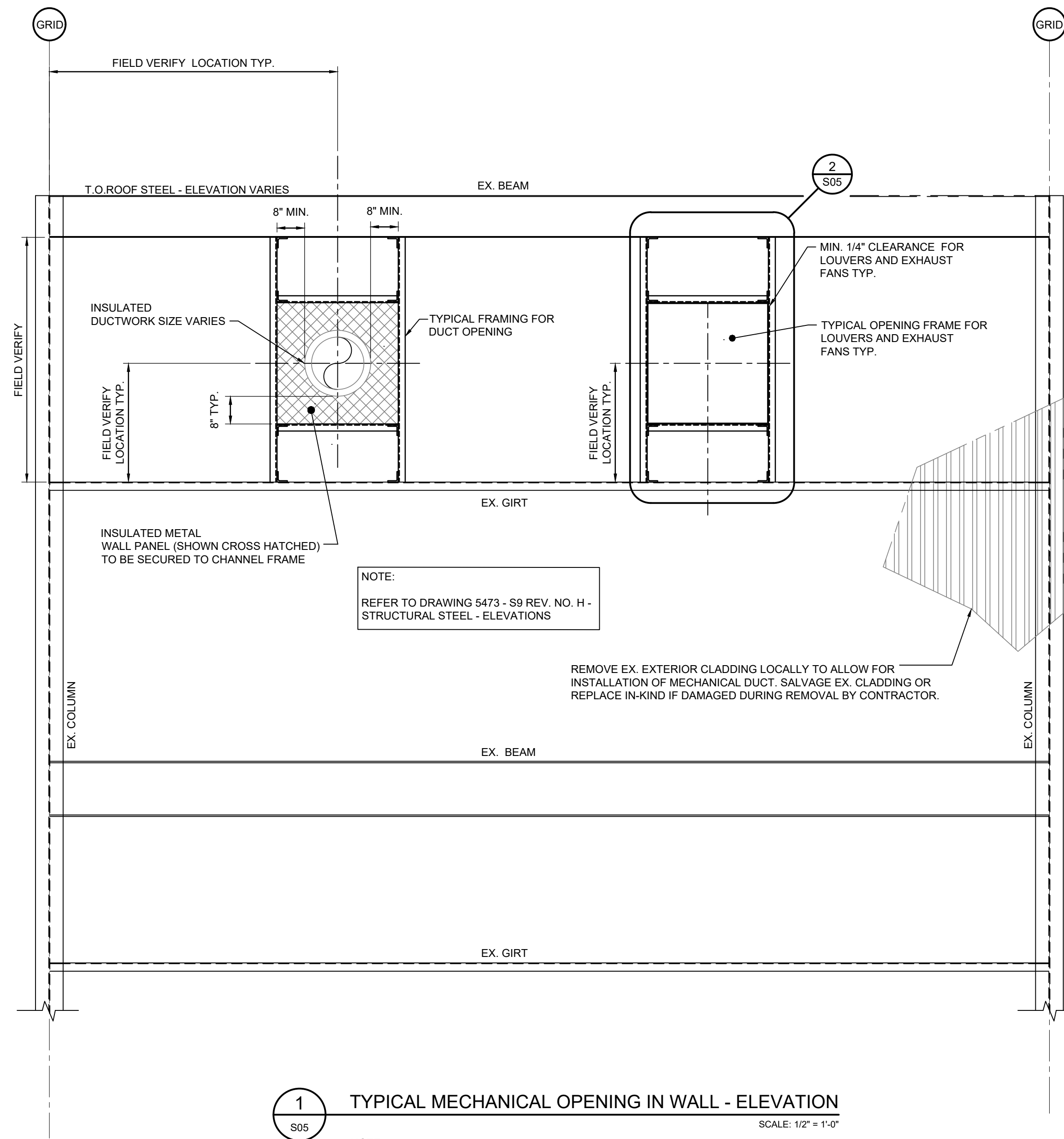
CHECKED: T.L.

JLR #: 28994

DRAWING #:

28994-2379-S04

PLOT DATE: March 26, 2021 12:02:44 PM



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PROJECT:

ONTC HEATING AND
VENTILATION UPGRADES
2379 - CAR REPAIR SHOP

NORTH BAY, ONTARIO

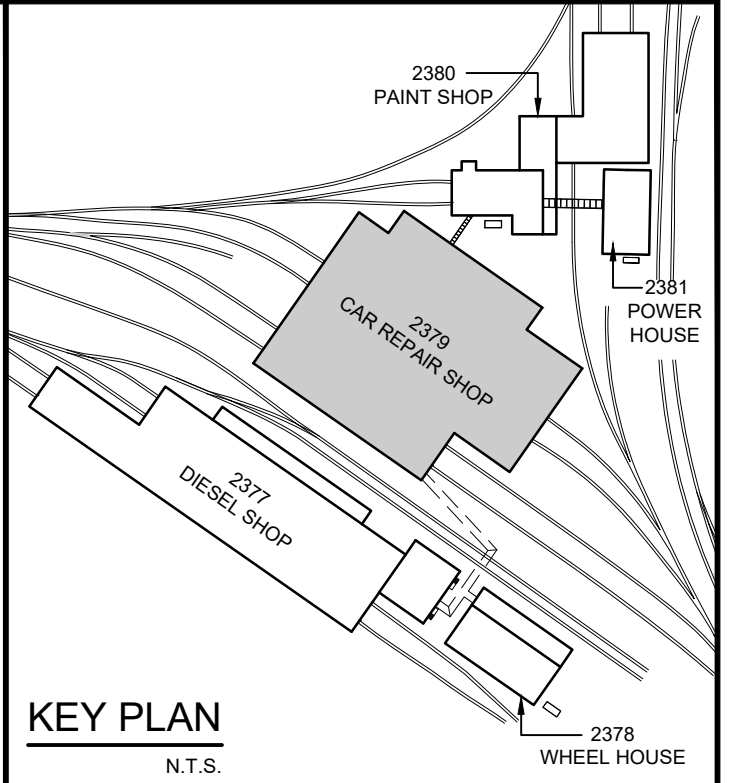
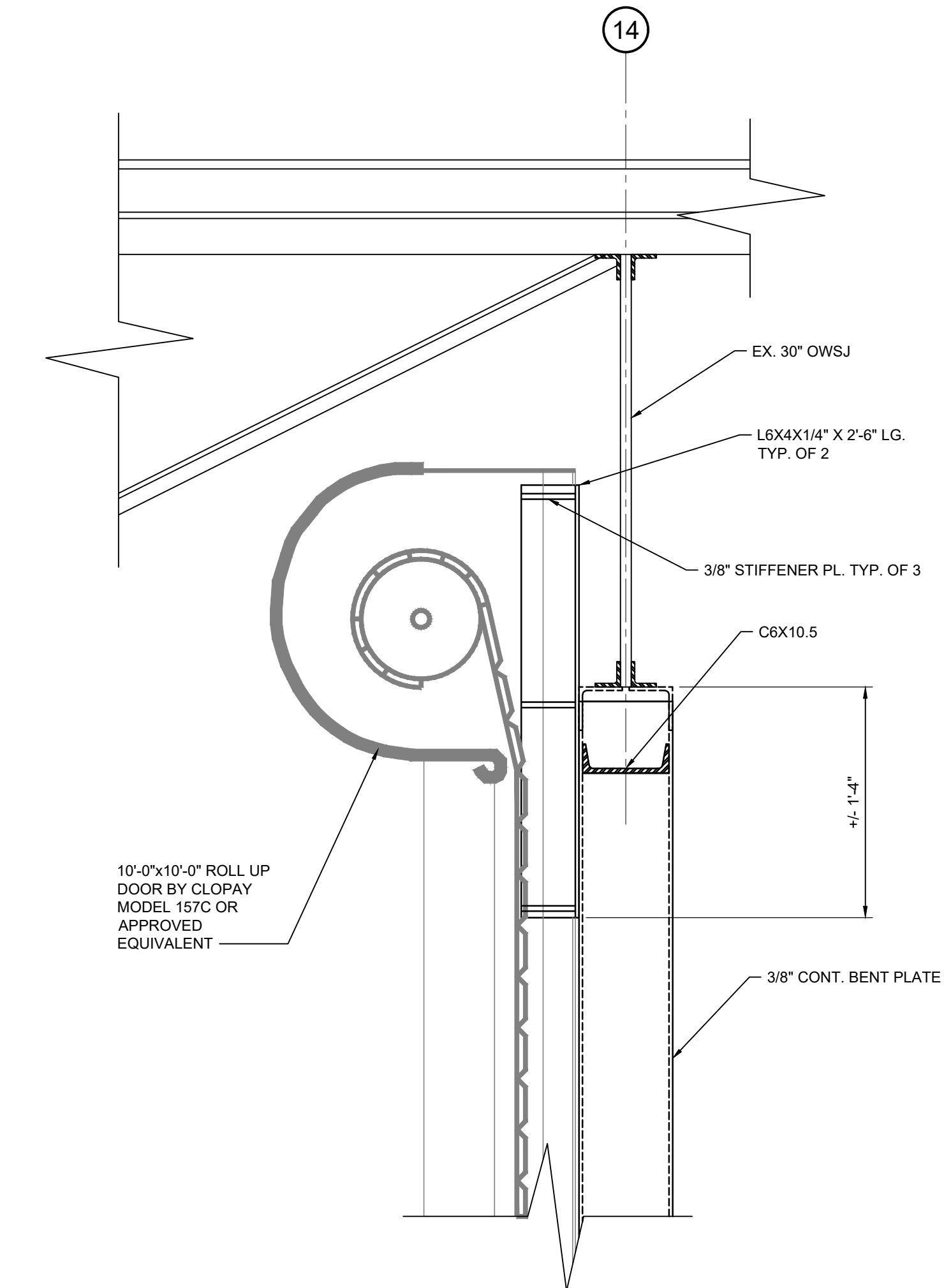
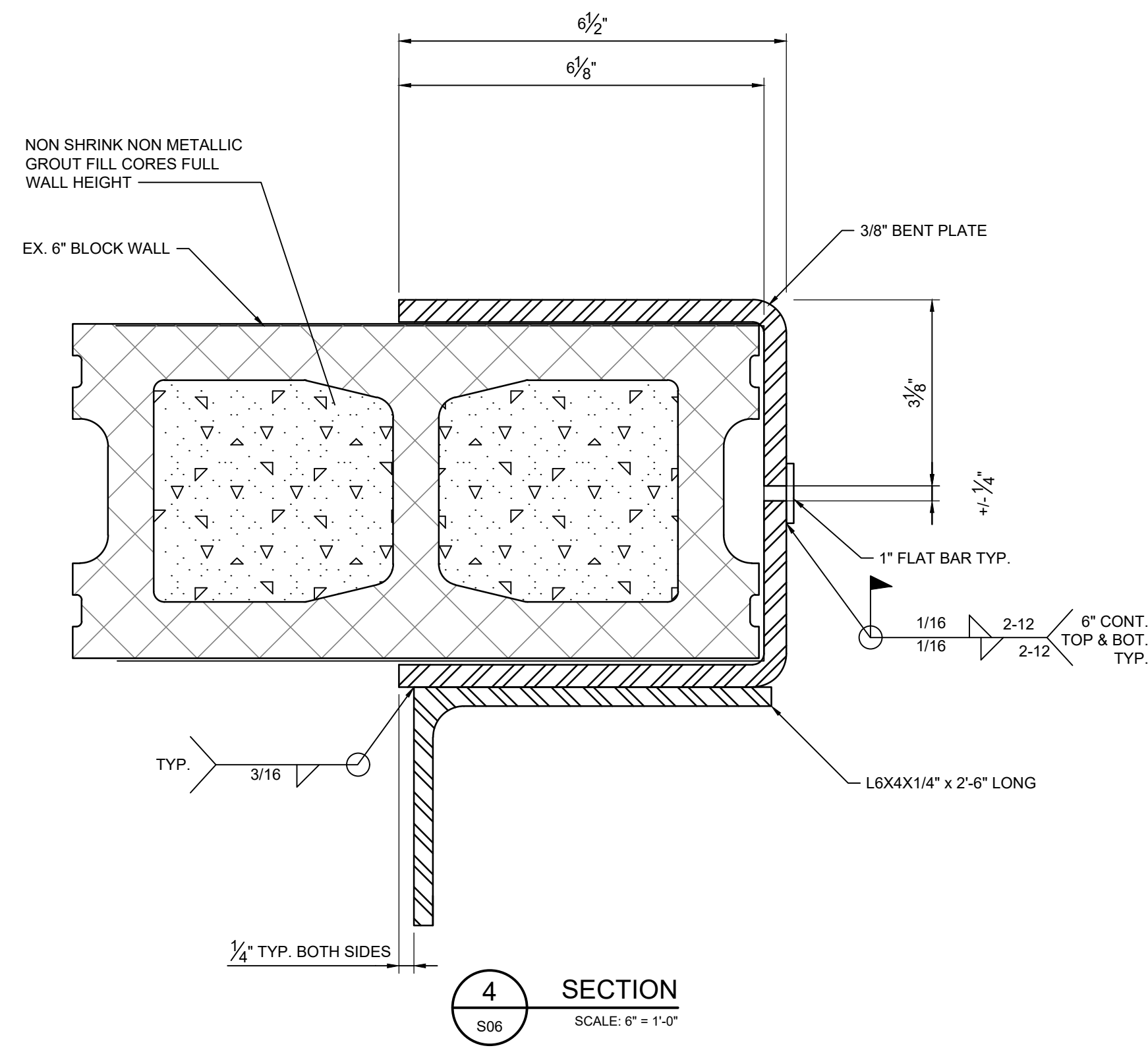
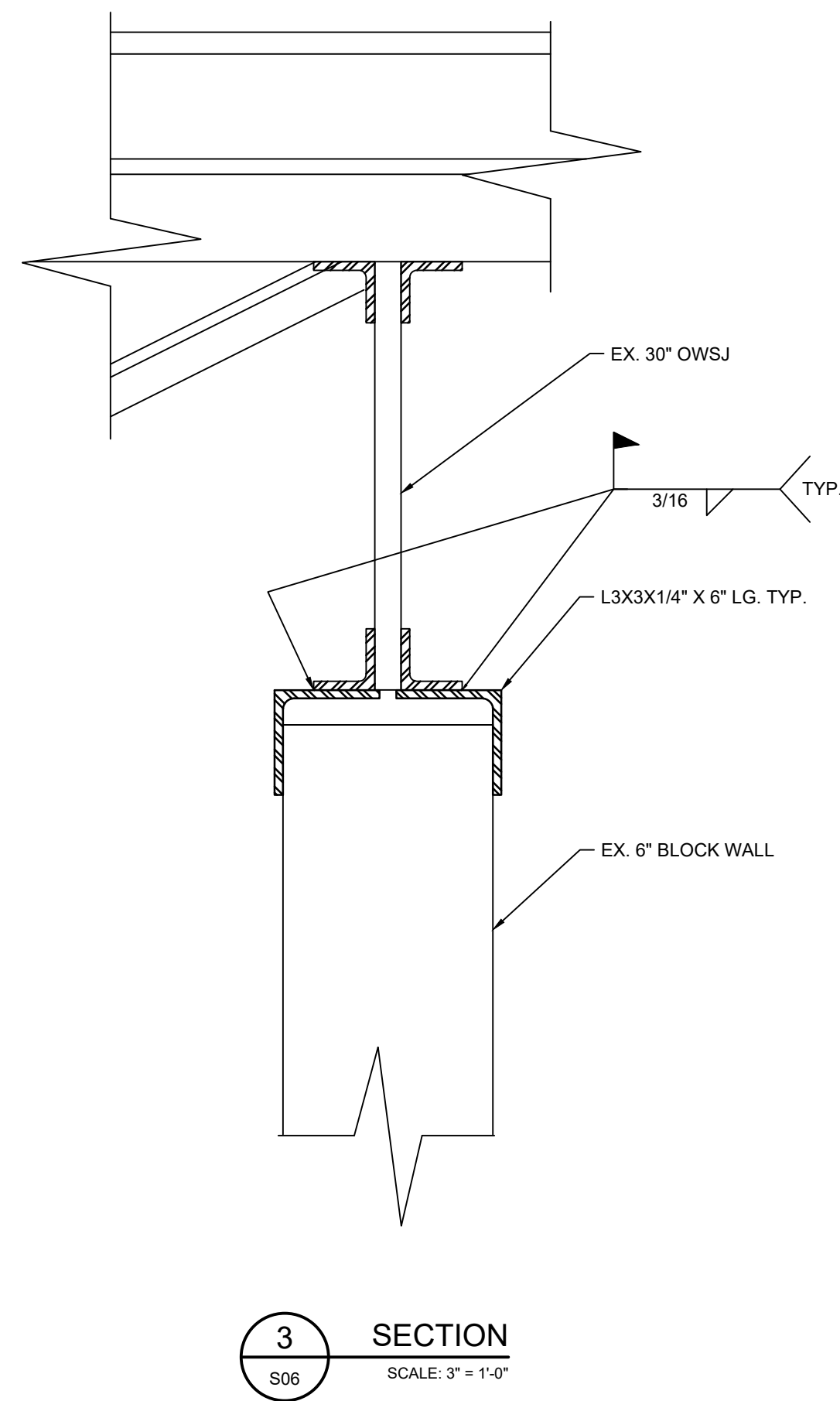
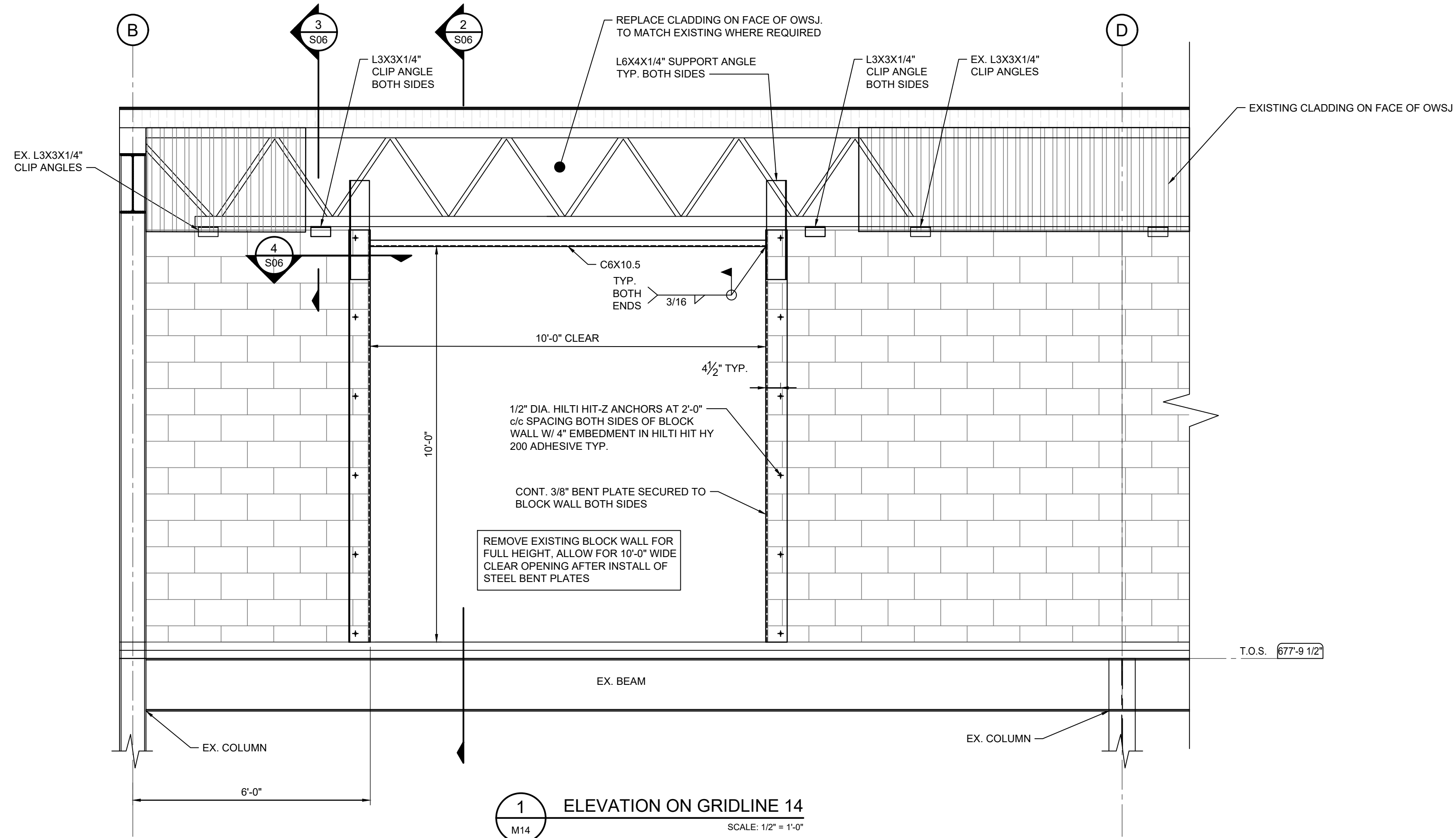
DRAWING:




WALL AND ROOF PENETRATIONS
FOR LOUVERS AND EXHAUST FANS

11 9:36:59 AM

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DRAWN: M.M.	
CHECKED: T.L.	
JLR #: 28994	

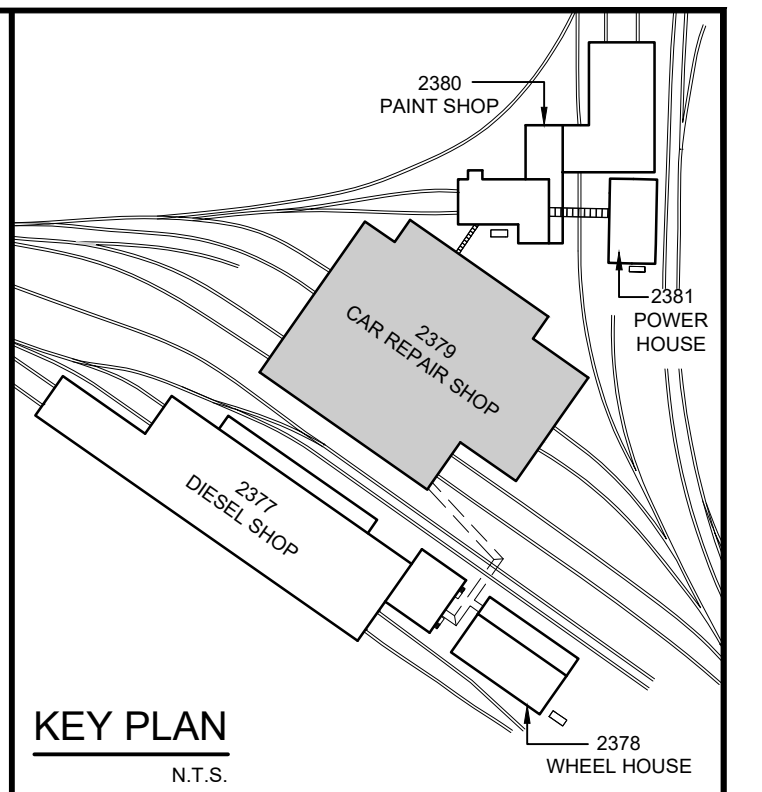
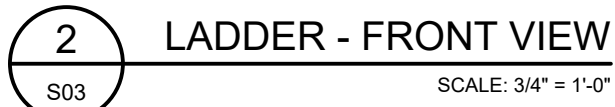
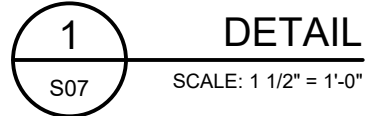
File Location: P:\2800028994-000 - ONTC Heating and Ventilation Upgrades\Production\3-Struct\Car Shop\S06 WALL DOOR OPENINGS.dwg



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VERIFY SHEET SIZE AND SCALES. BAR TO THE RIGHT IS 1" IF THIS IS A FULL SIZE DRAWING.		
SCALE: AS NOTED		<div><div></div><div>01"</div></div>
CLIENT:		
		
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 J.L. Richards ENGINEERS - ARCHITECTS - PLANNERS		
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PROFESSIONAL STAMP	PROJECT NORTH	
		
PROJECT: ONTC HEATING AND VENTILATION UPGRADES 2379 - CAR REPAIR SHOP NORTH BAY, ONTARIO		
DRAWING: MECHANICAL ROOM 213 DOOR OPENING FRAMING ELEVATION & SECTIONS		
DESIGN: B.P.	DRAWING #:	
DRAWN: M.M.	28994-2379-S06	
CHECKED: T.L.		
JLR #: 28994		

March 26, 2021 9:35:42 AM

PLOT DATE: March 28, 2021 9:35:42 AM



KEY PLAN

N.T.S.

REFERENCE DRAWINGS:

- A. ONR - REPAIR FACILITY - FIRST FLOOR PLAN - NORTH
BAY - DWG. No. 5473-A1 - MARCH 1974

NOTE:

- A. REFER TO DRAWING S00 FOR GENERAL NOTES.
B. REFER TO DRAWING S03 FOR LADDER AND
HANDRAIL LOCATIONS.

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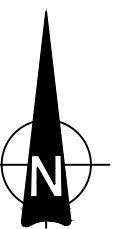


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PROJECT NORTH



PROJECT:

ONTC HEATING AND
VENTILATION UPGRADES
2379 - CAR REPAIR SHOP

NORTH BAY, ONTARIO

DRAWING:

MUA UNIT SUPPORT PLATFORM
LADDER DETAILS AND GUARDRAIL

DESIGN: B.P.

DRAWN: M.M.

CHECKED: T.L.

JLR #: 28994

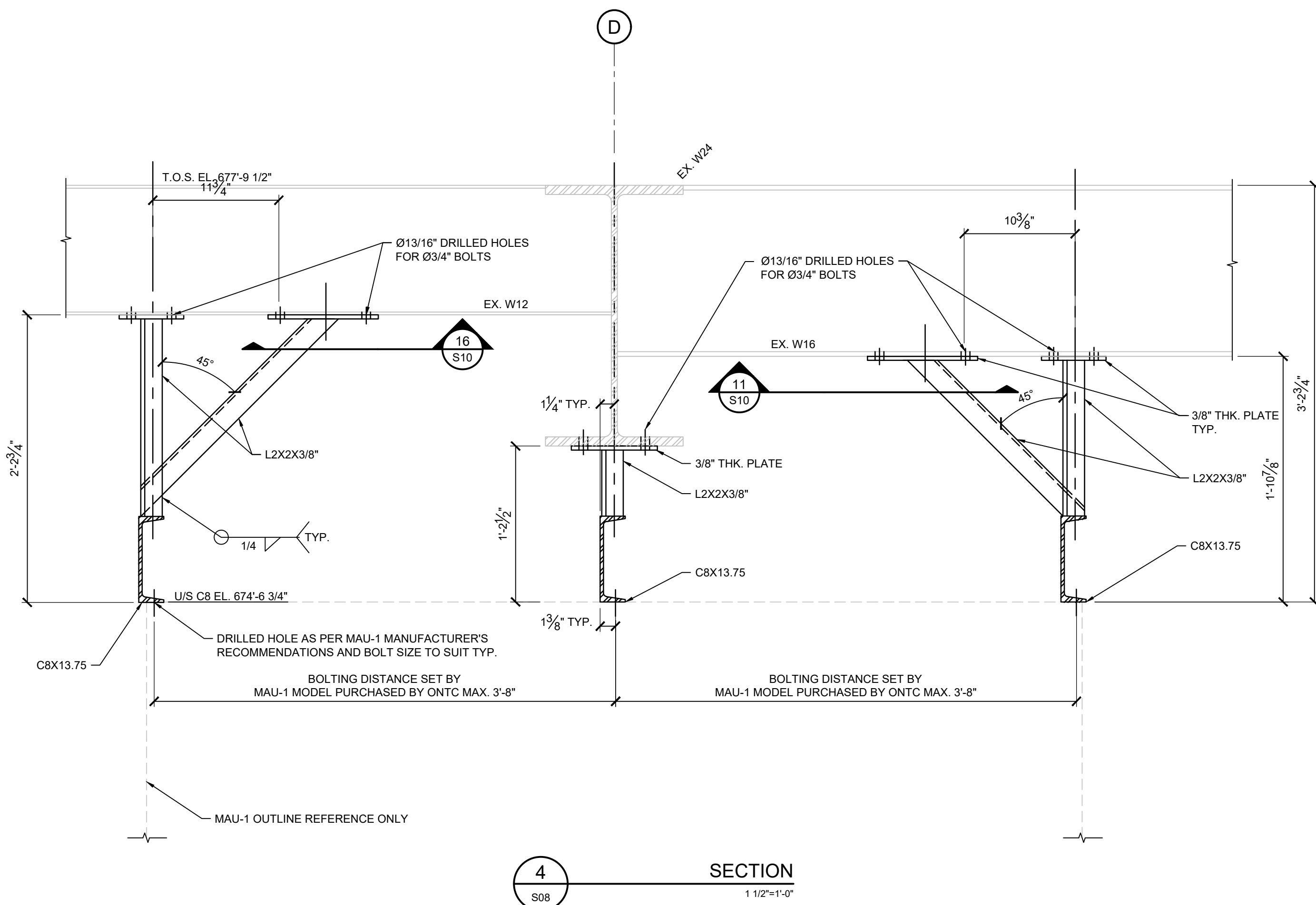
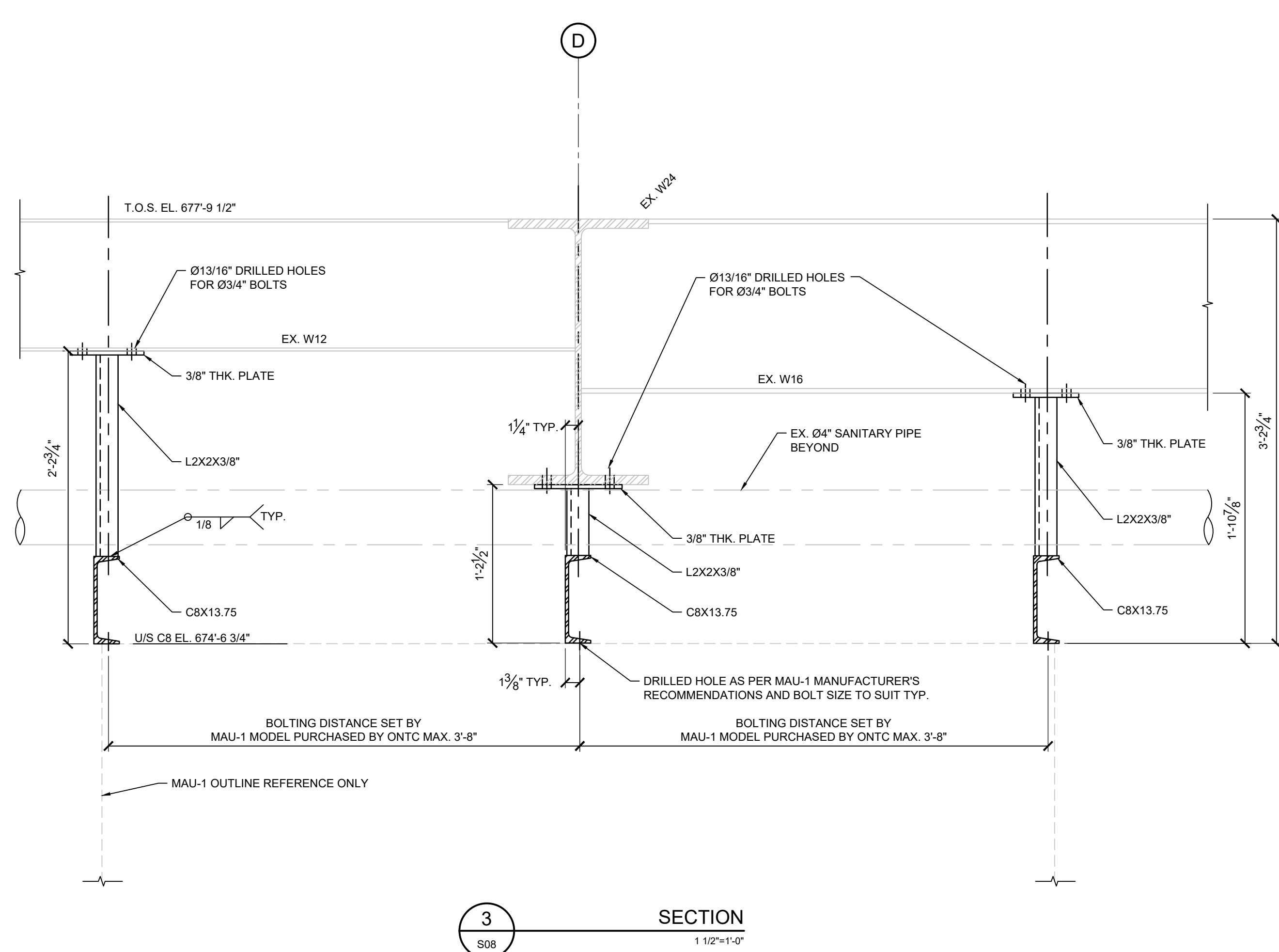
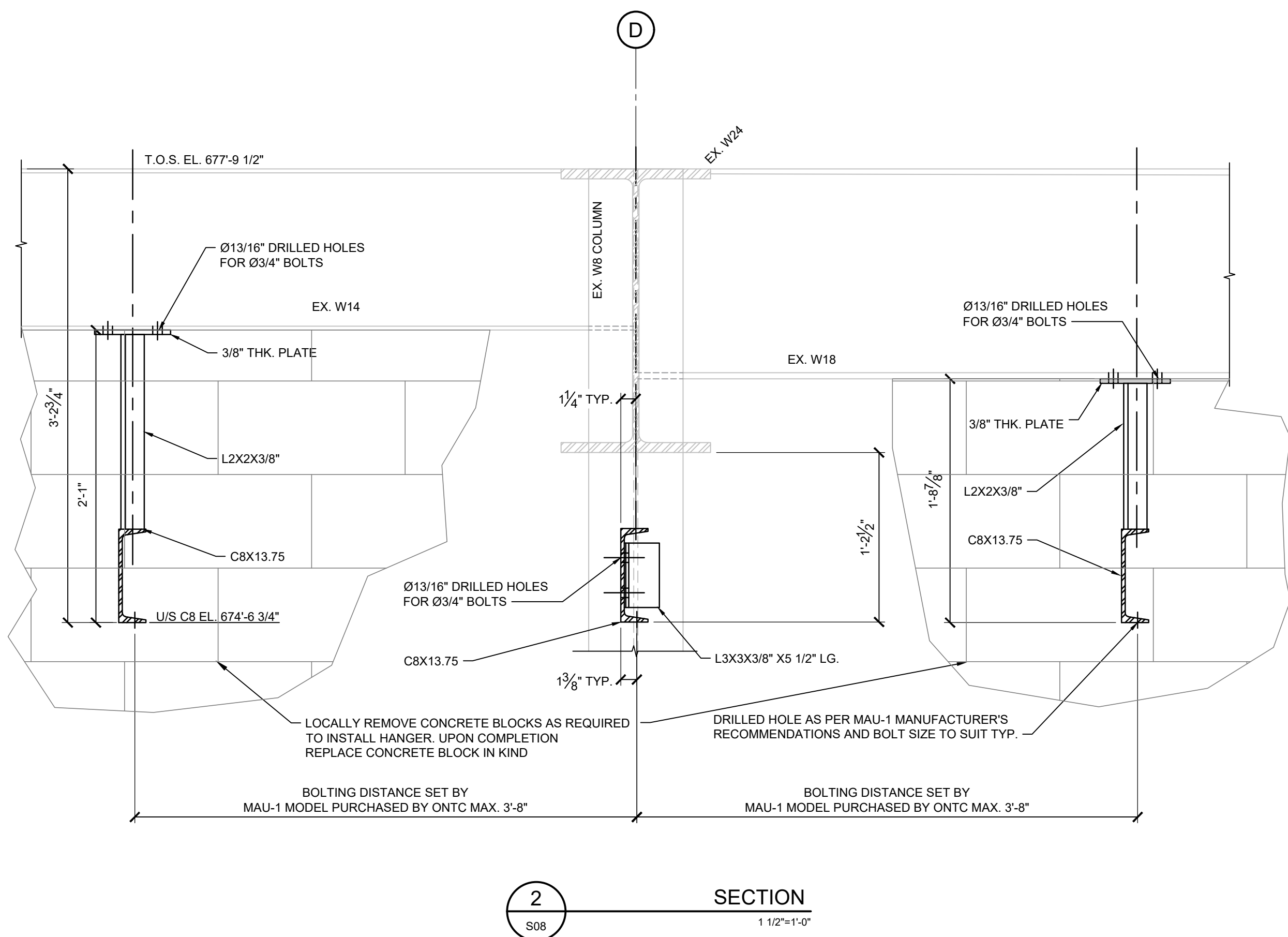
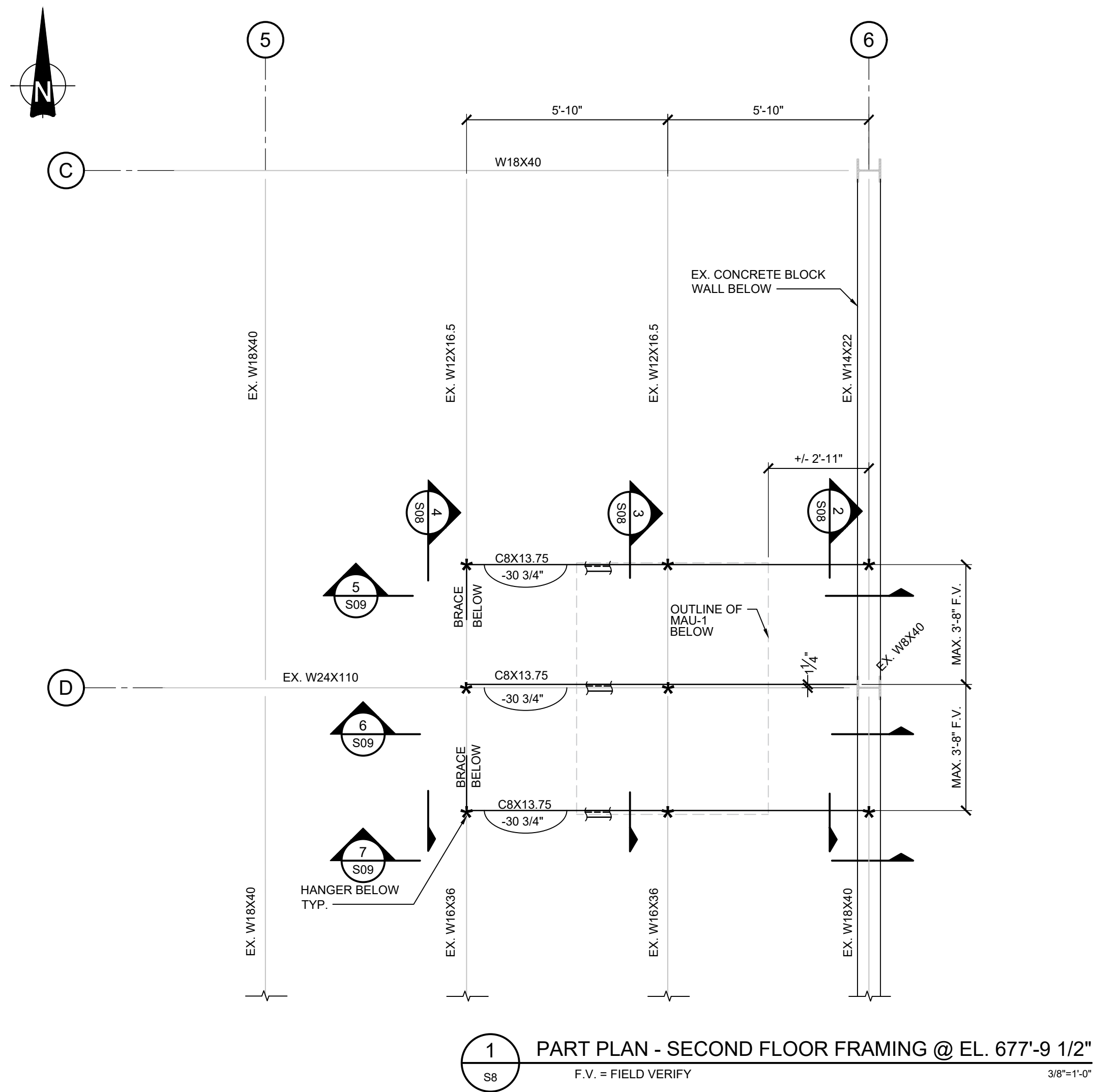
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20994-23

20994-2379-307 LOT

File Location: P:\28000\28994-000 - ONTC Heating and Ventilation Upgrades\Production\3-Struct\Car Shop\S08 MAU-1 PLAN AND SUPPORT STEEL DETAILS.dwg



2380 PAINT SHOP

2379 CAR REPAIR SHOP

2377 DIESEL SHOP

2381 POWER HOUSE

2378 WHEEL HOUSE

KEY PLAN

N.T.S.

REFERENCE DRAWINGS:

- 1) ONTC - REPAIR FACILITY STRUCTURAL STEEL - SECOND FLOOR FRAMING PLAN DWG. 5473-S8 REV. 6
- 2) 28994-2379-M13
- 3) 28994-2379-S00
- 4) 28994-2379-S09
- 5) 28994-2379-S10

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PROJECT NORTH

PROJECT:

ONTC HEATING AND VENTILATION UPGRADES
2379 - CAR REPAIR SHOP

NORTH BAY, ONTARIO

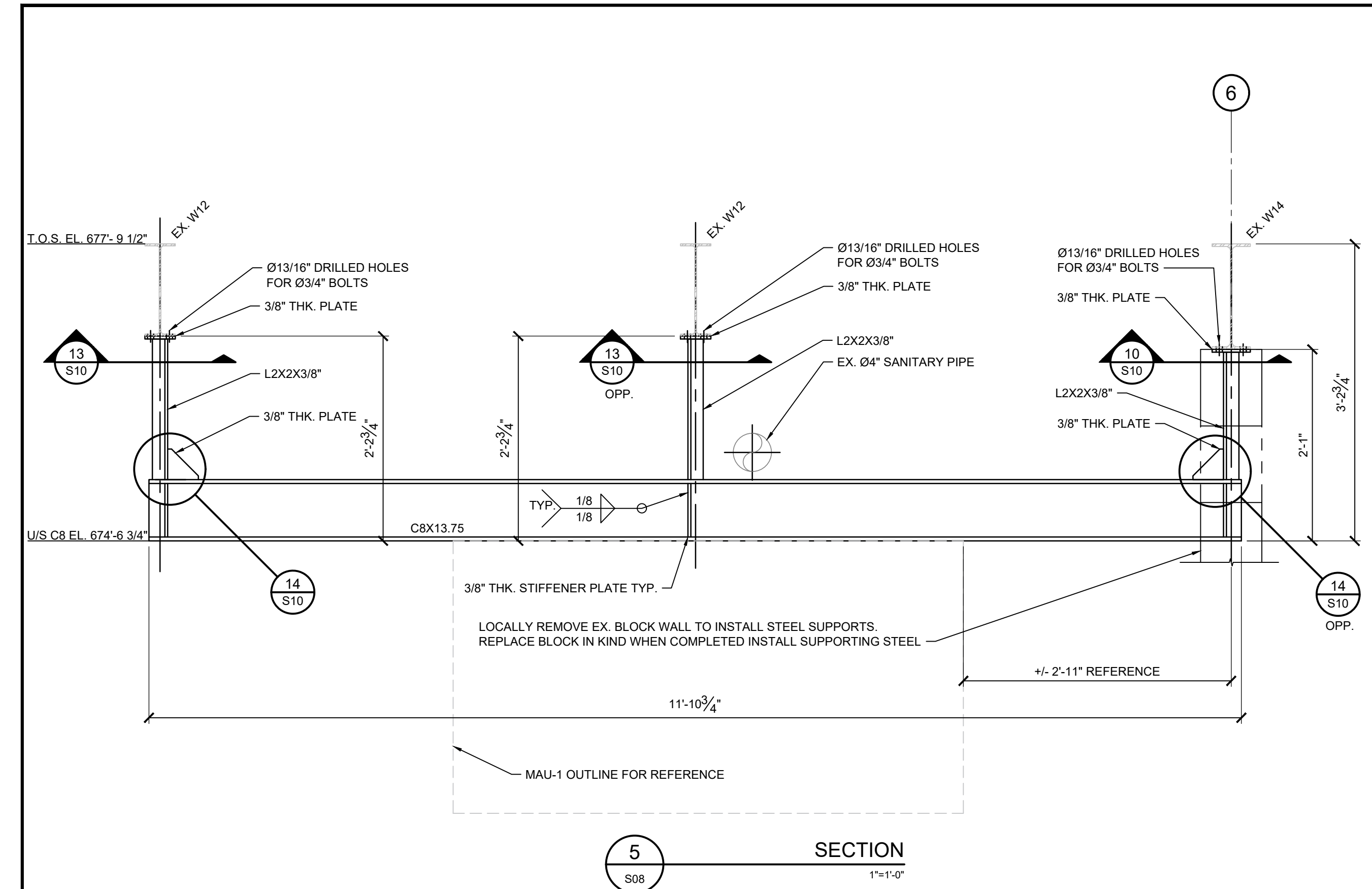
DRAWING:

ERV-1 SUPPORT STEEL
PLAN AND SECTIONS SHEET 1

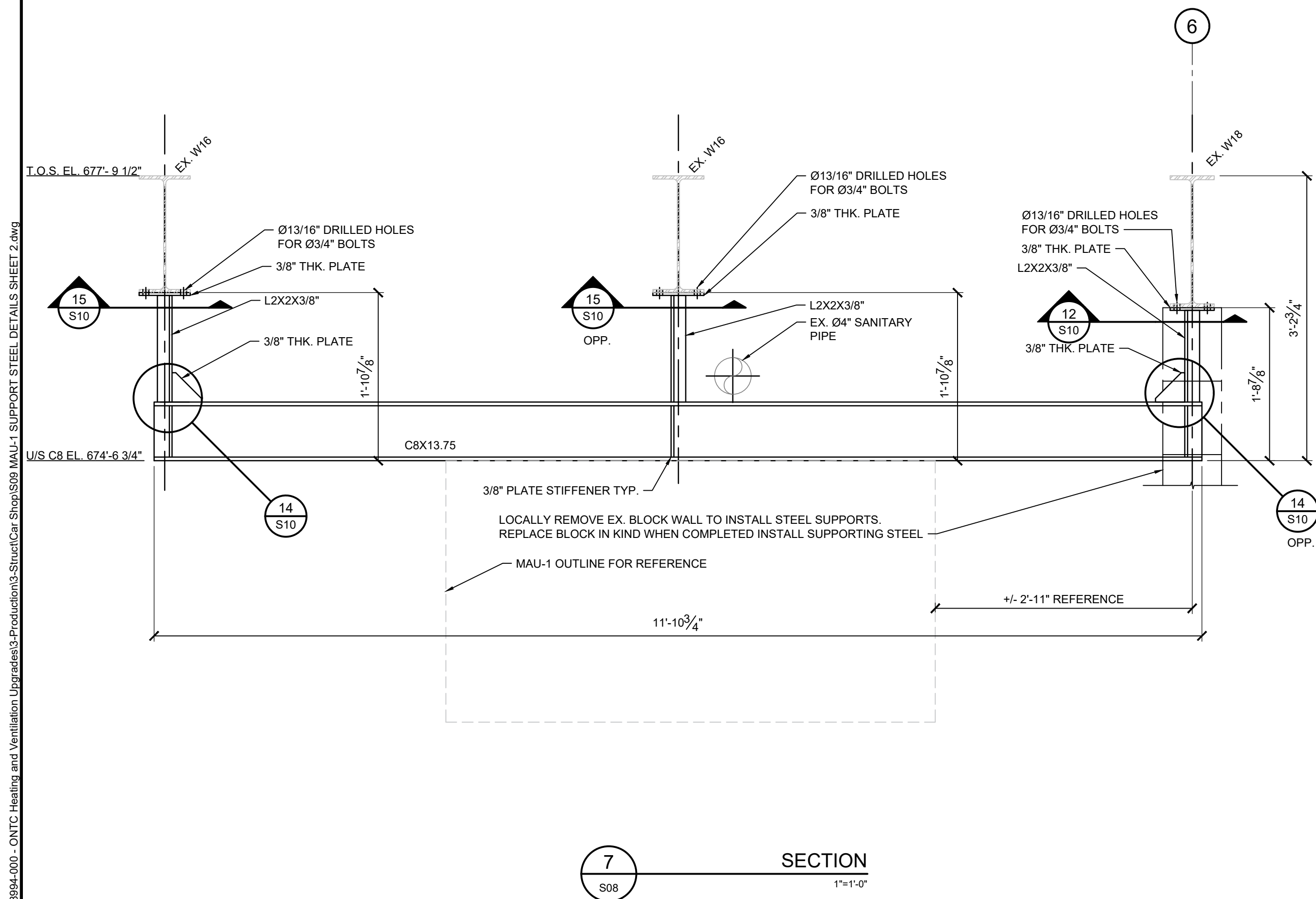
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DRAWN: M.M.	
CHECKED: T.L.	
JLR #: 28994	

PLOT DATE: March 26, 2021 9:31:15 AM

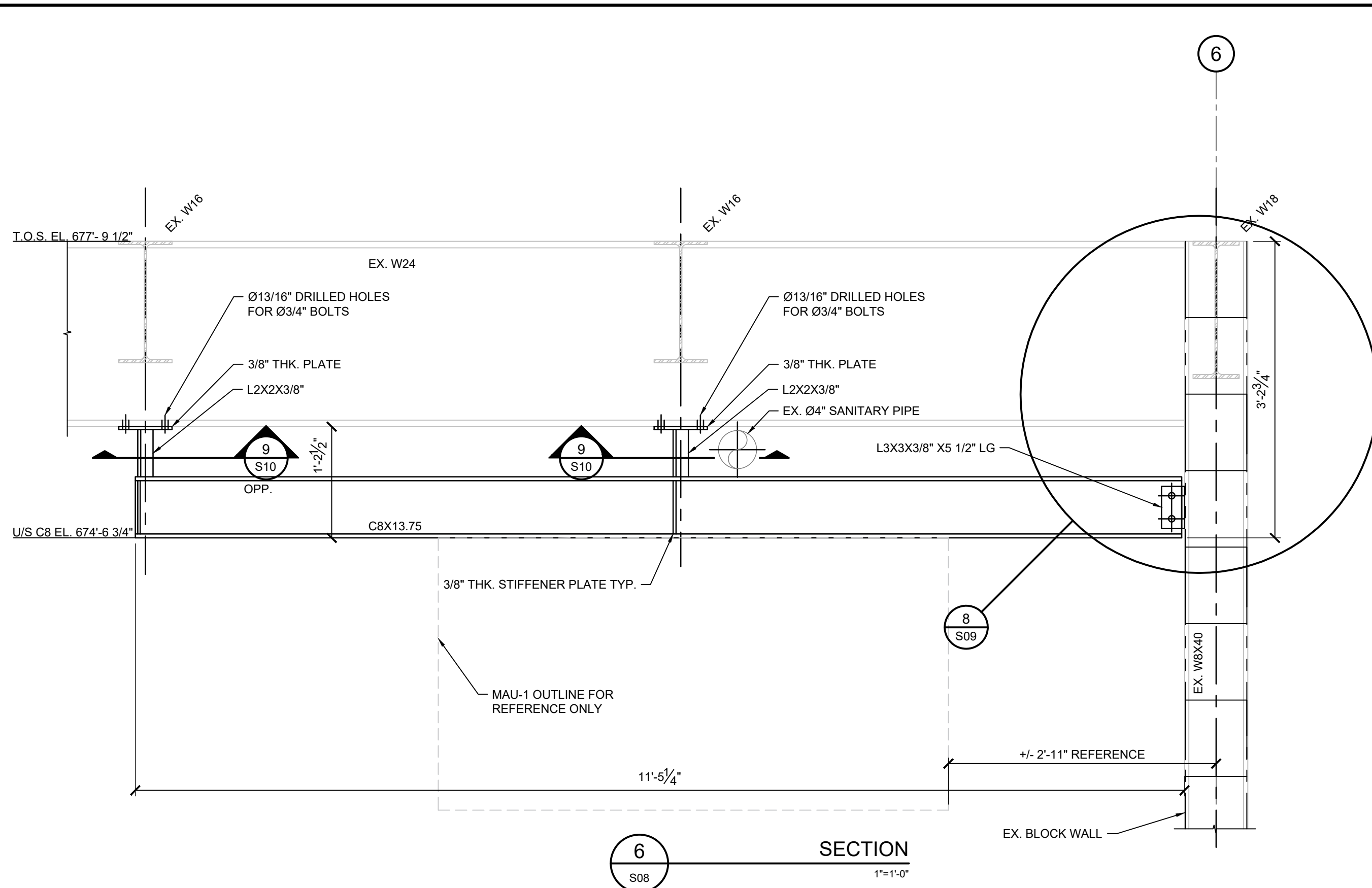
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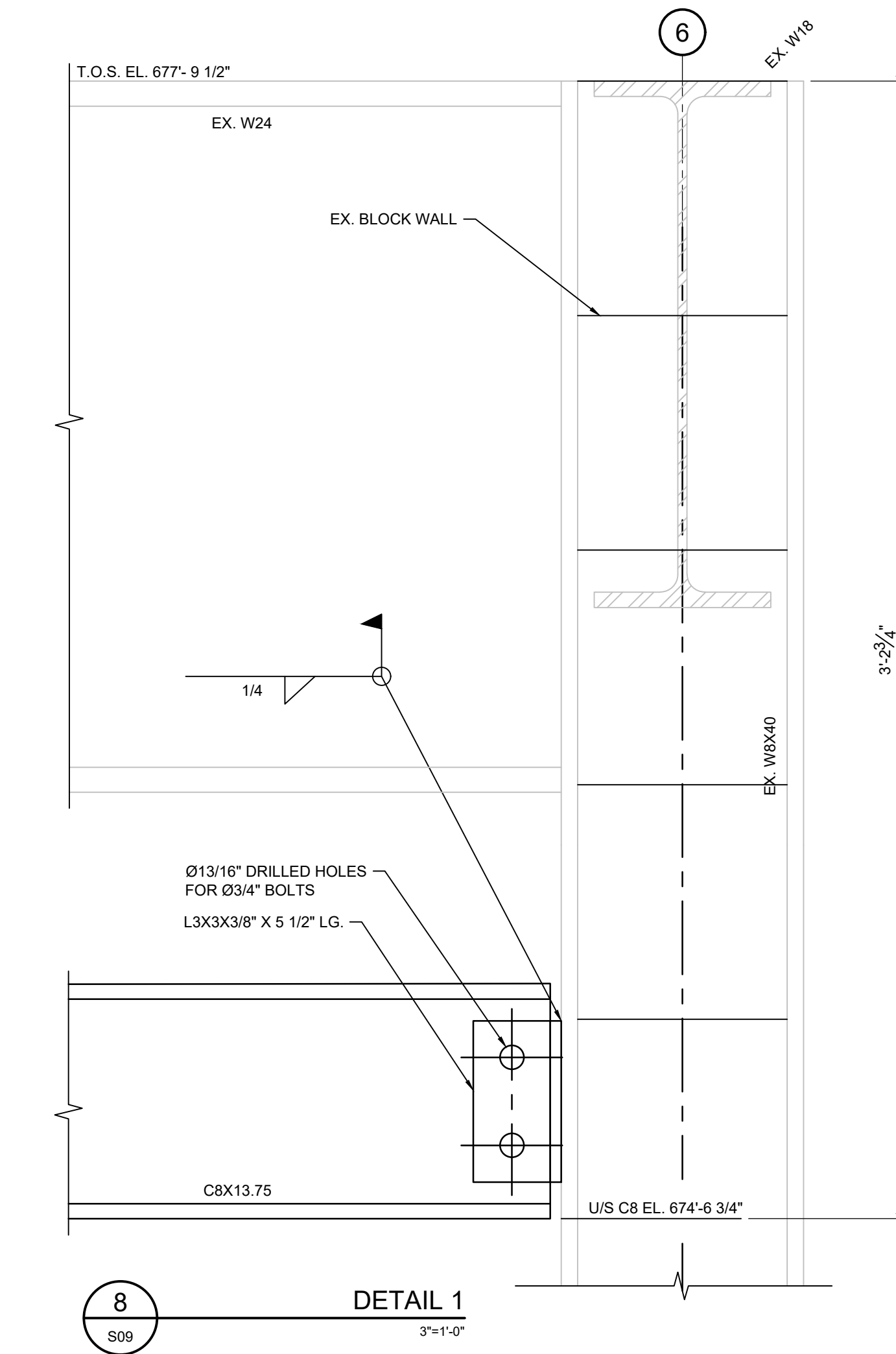
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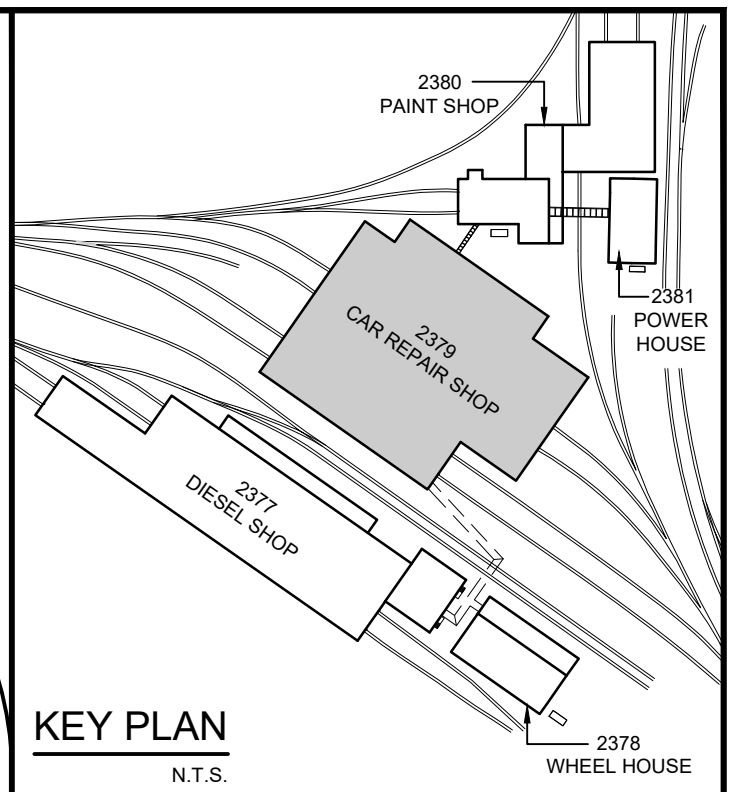
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6 SECTION
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8 DETAIL 1
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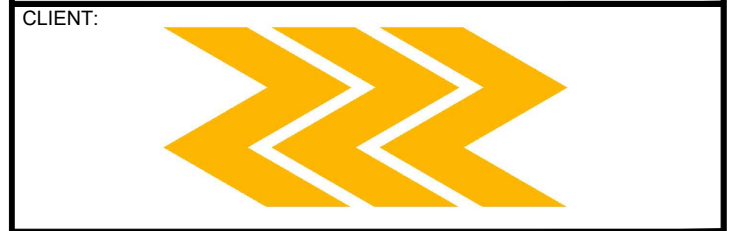
- REFERENCE DRAWINGS:
- 1) ONTC - REPAIR FACILITY STRUCTURAL STEEL - SECOND FLOOR FRAMING PLAN DWG. 5473-S8 REV. 6.
 - 2) 28994-2379-M13
 - 3) 28994-2379-S00
 - 4) 28994-2379-S08
 - 5) 28994-2379-S10

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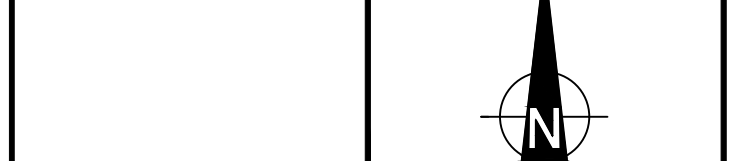
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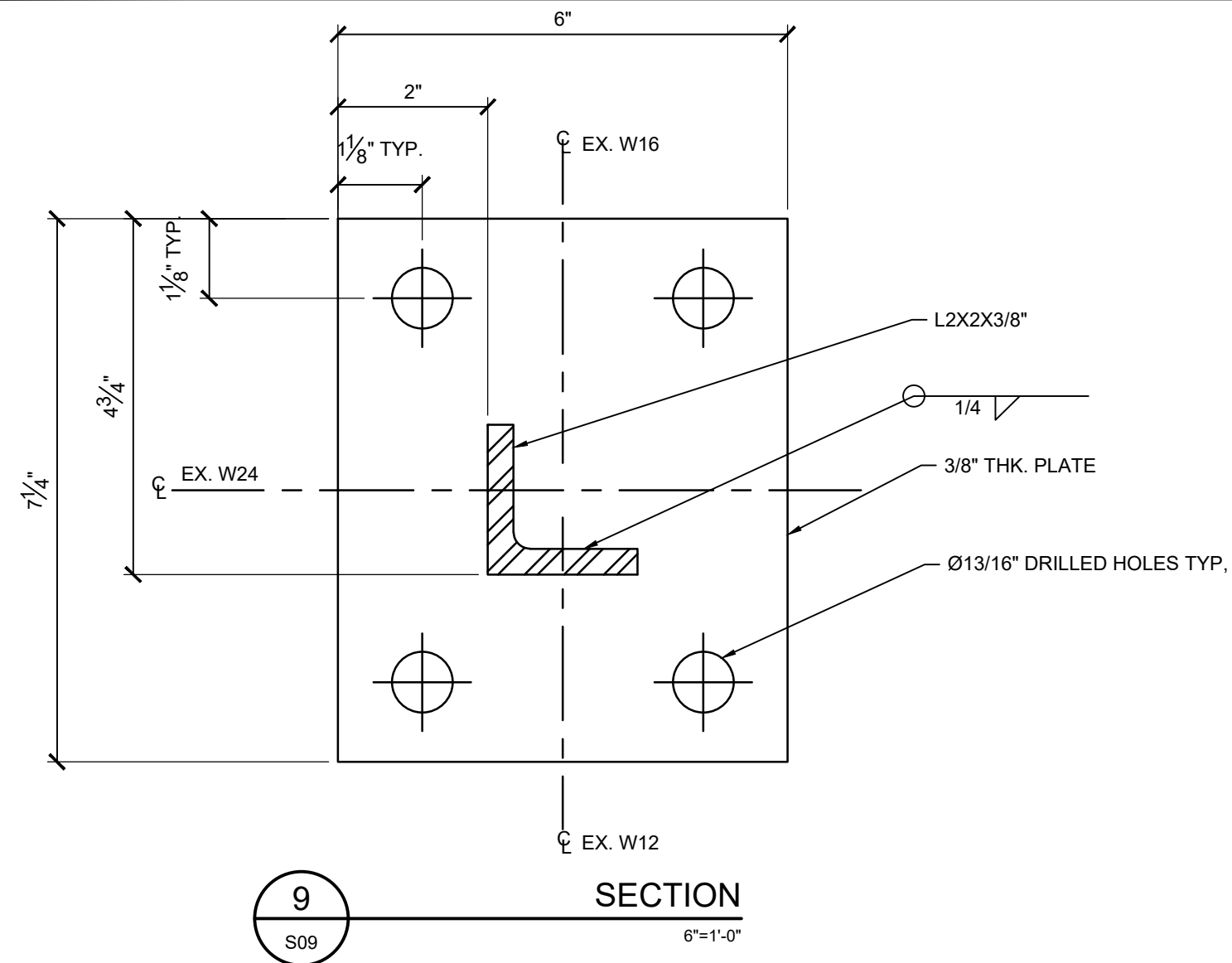
PROJECT: ONTC HEATING AND VENTILATION UPGRADES
2379 - CAR REPAIR SHOP
NORTH BAY, ONTARIO

DRAWING: ERV-1 SUPPORT STEEL
SECTIONS AND DETAILS SHEET 2

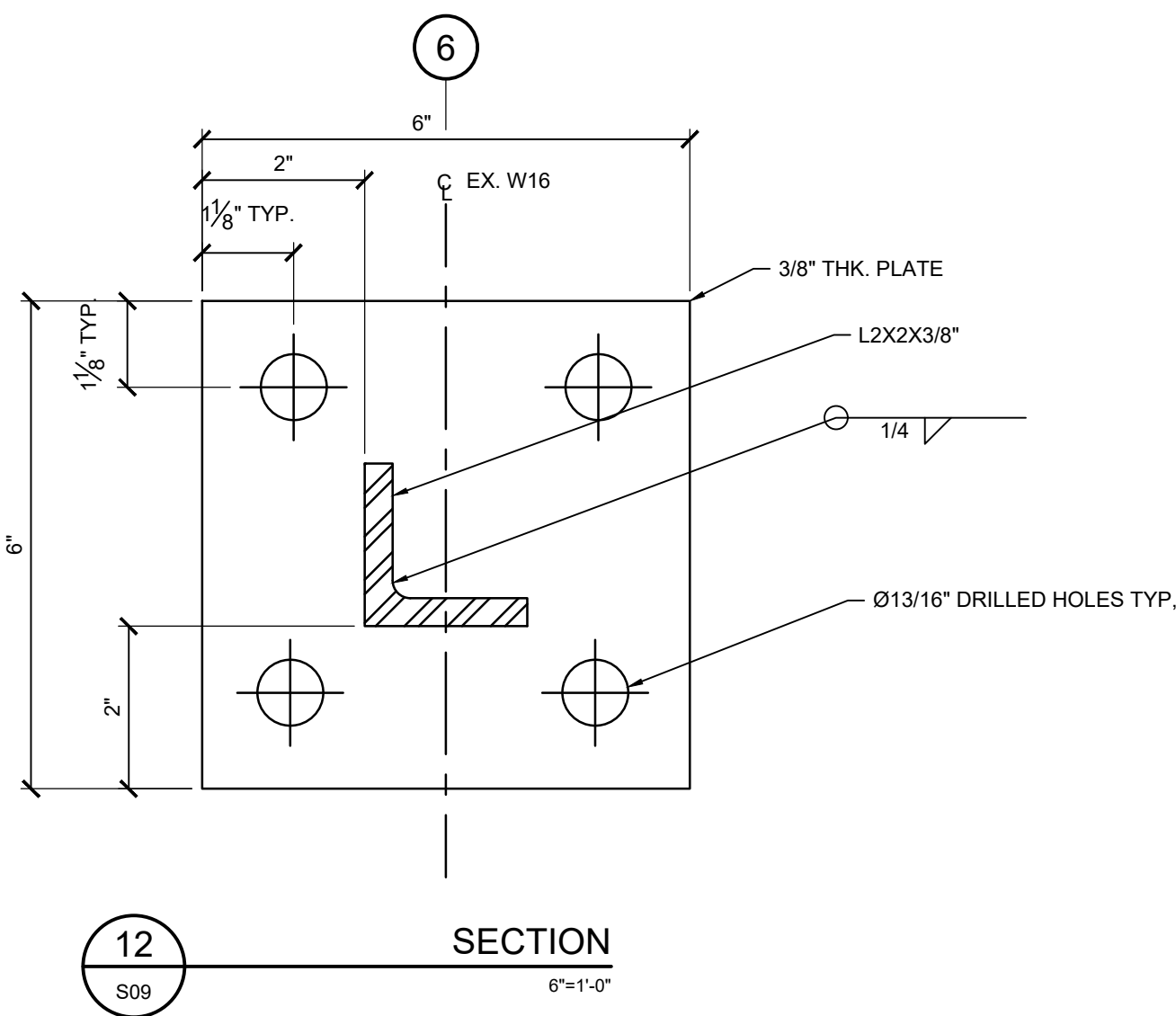
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DRAWN: M.M.	28994-2379-S09
CHECKED: T.L.	
JLR #:	28994

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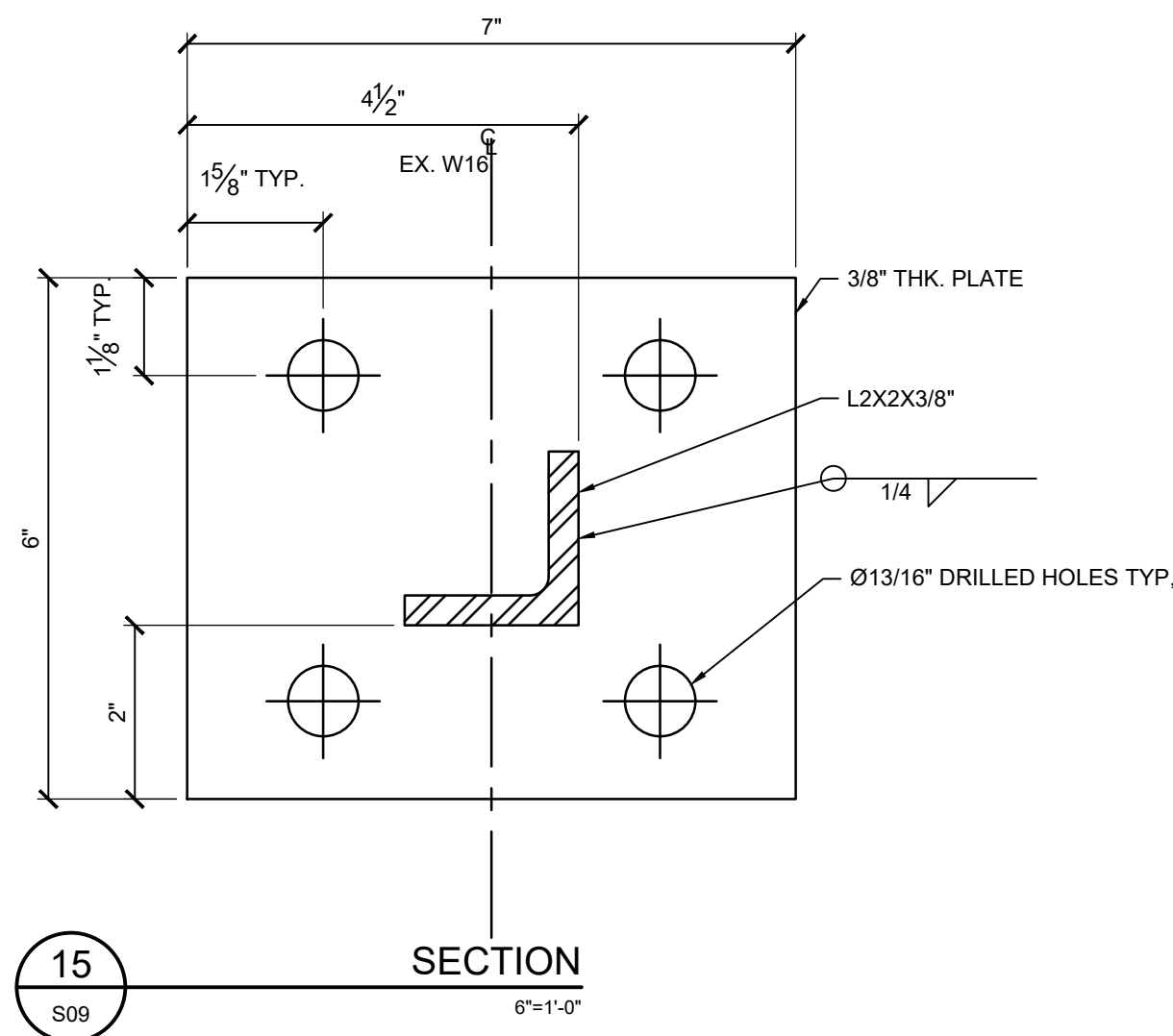
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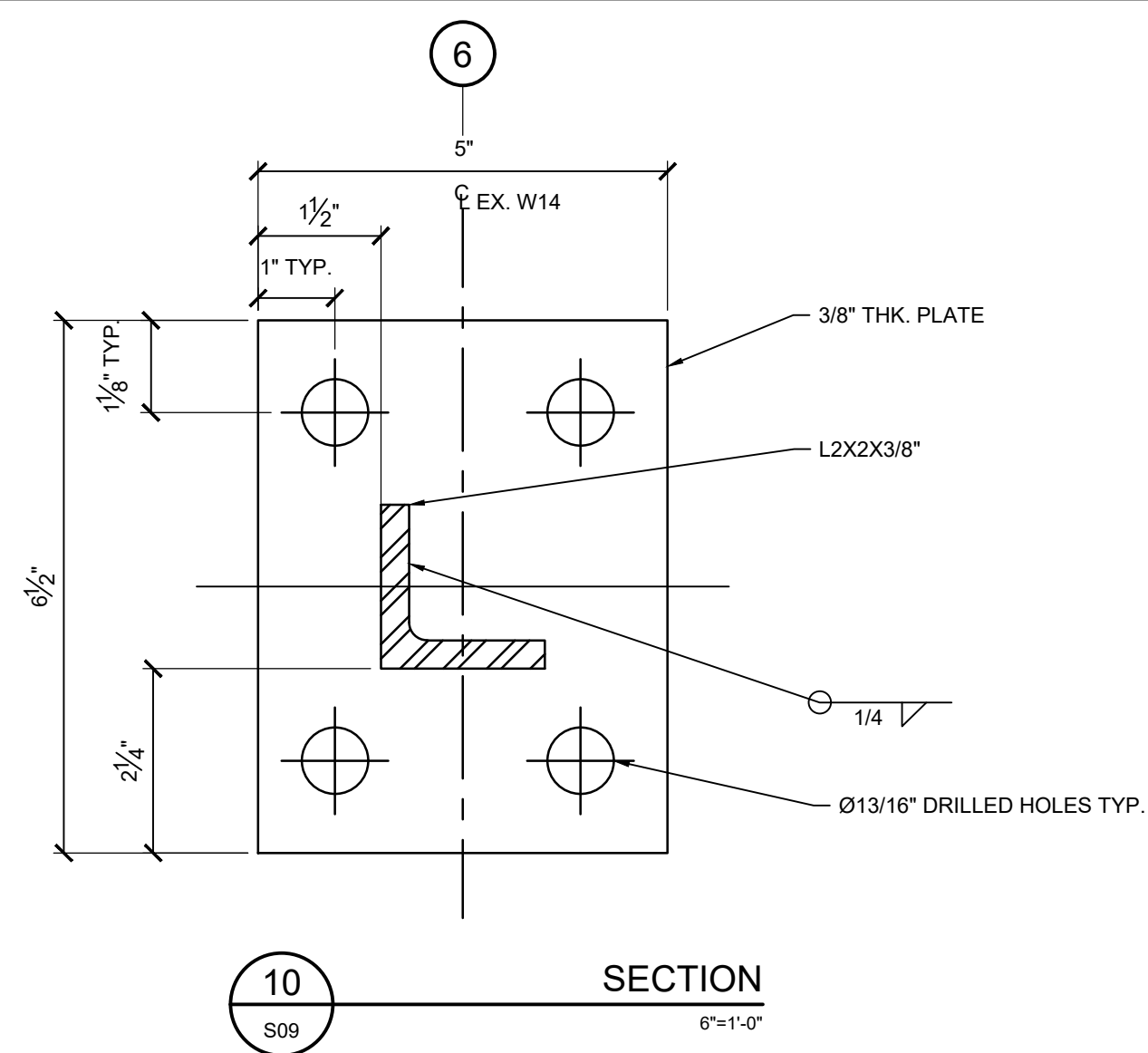
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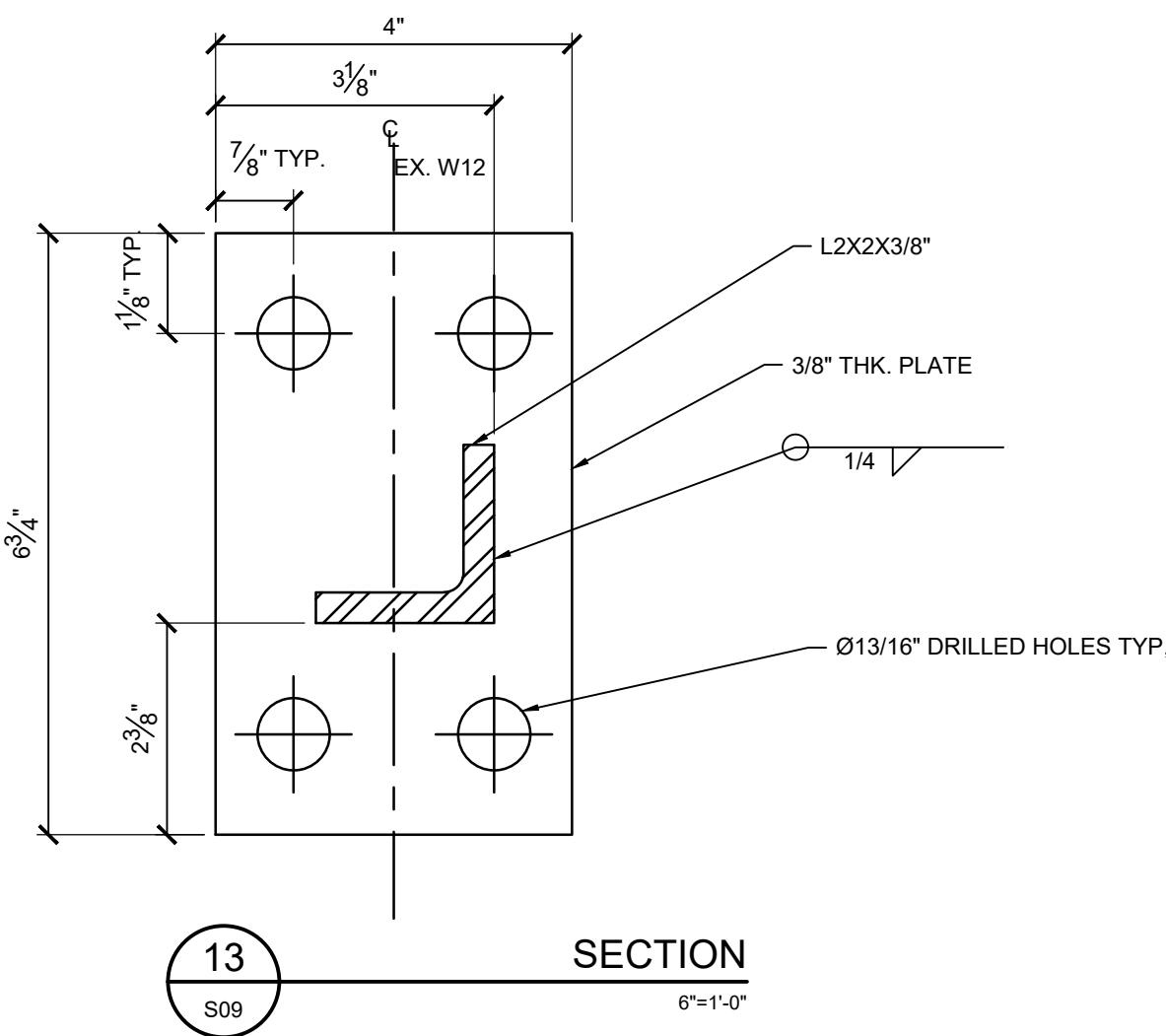
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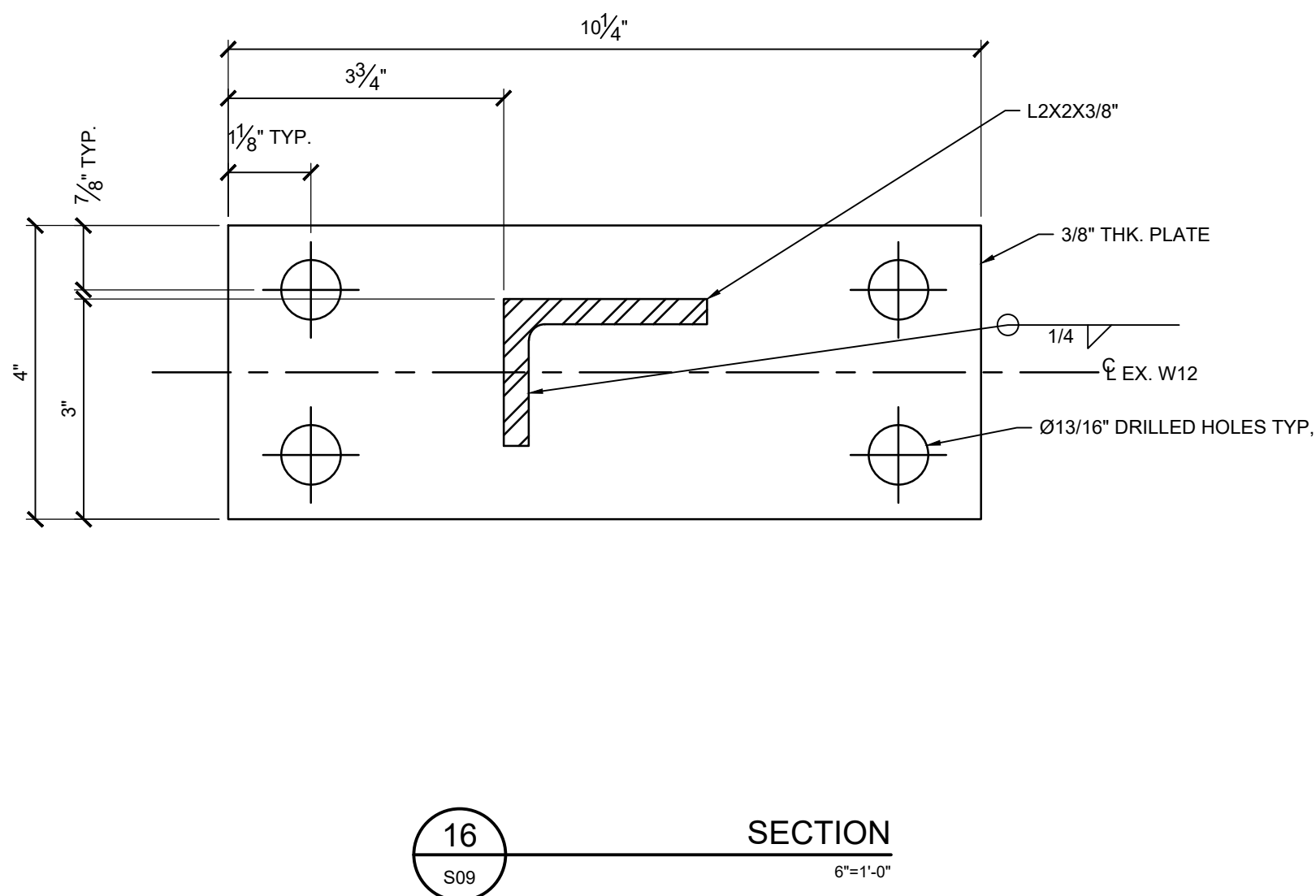
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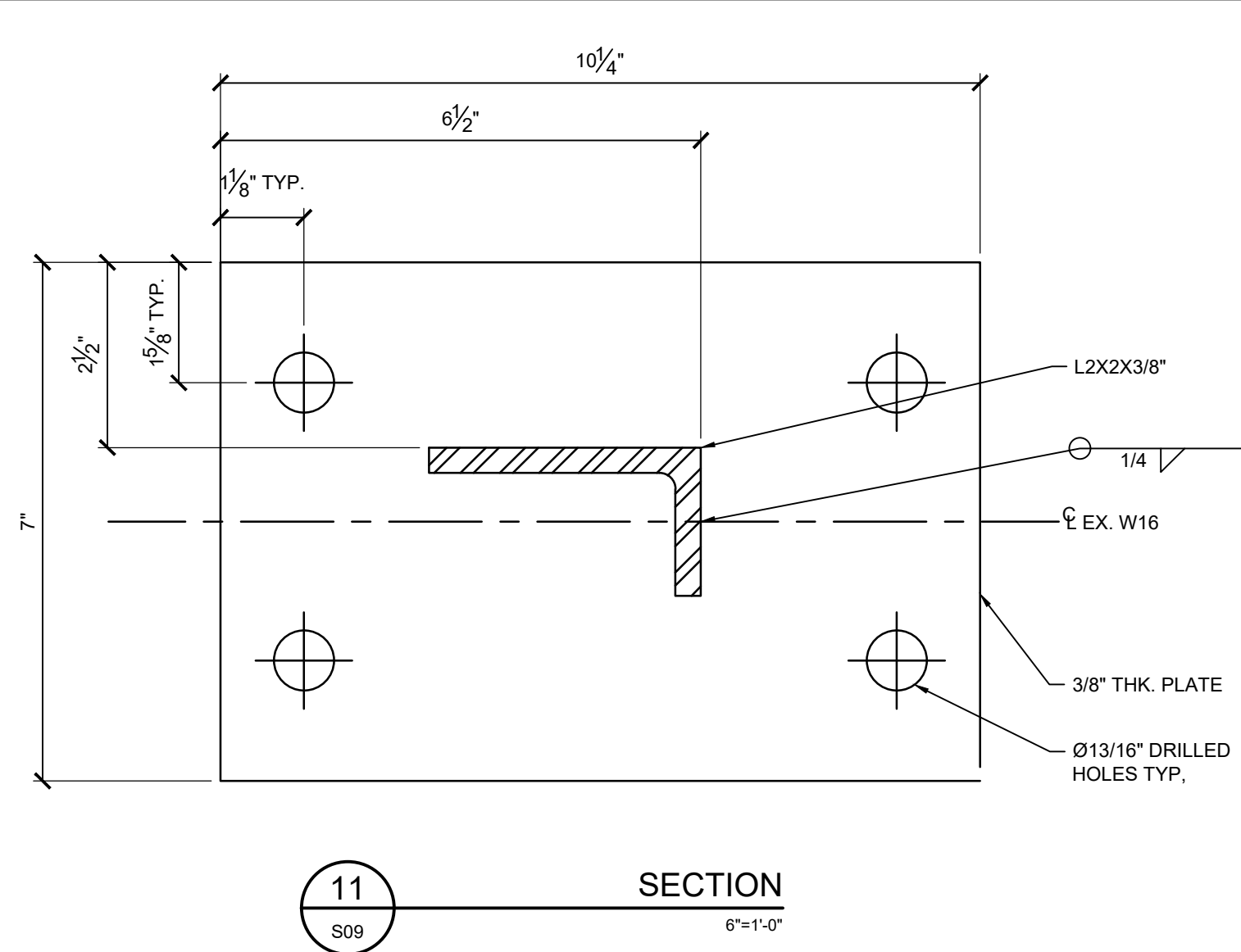
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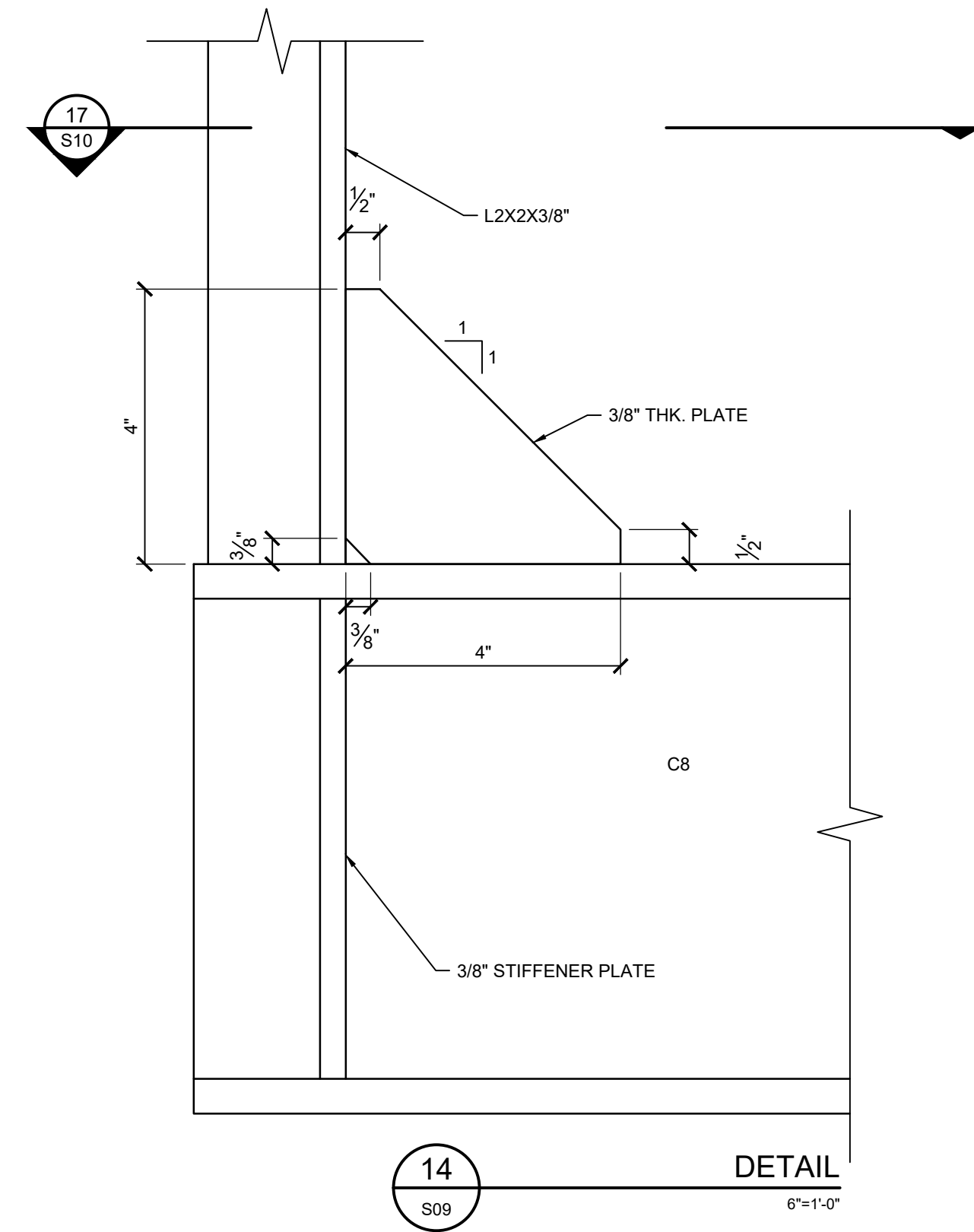
13 SECTION
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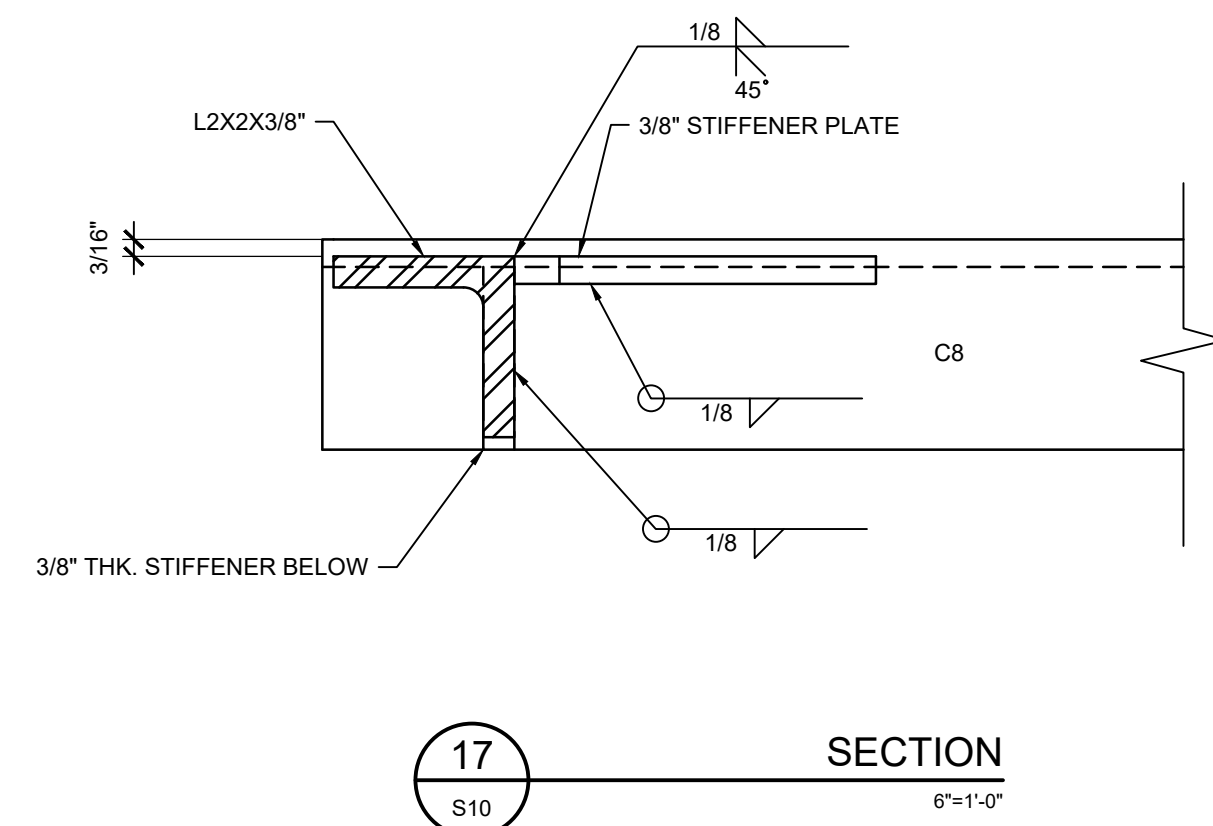
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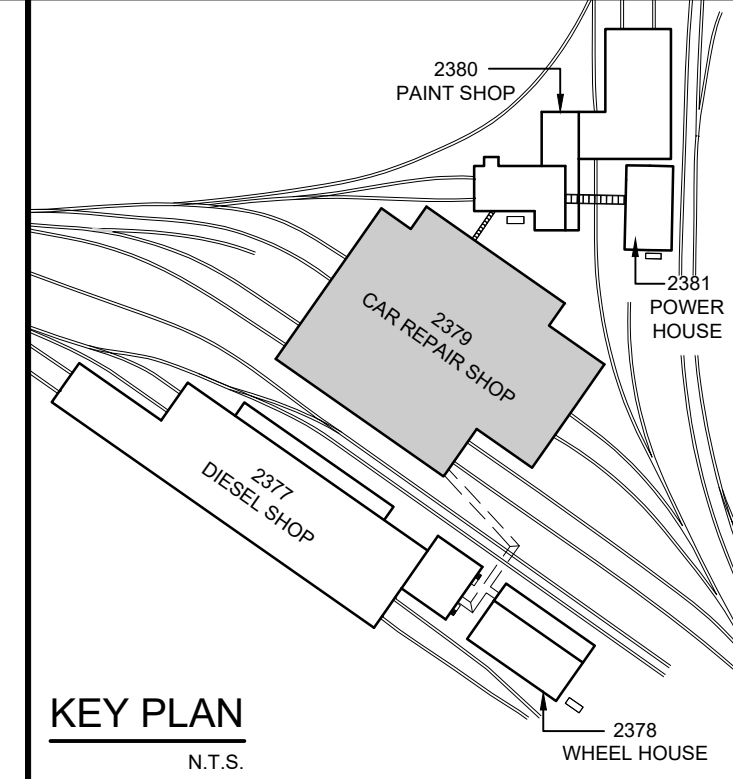
11 SECTION
S09 6"=1'-0"



14 DETAIL
S09 6"=1'-0"



17 SECTION
S10 6"=1'-0"



REFERENCE DRAWINGS:
1) ONTC - REPAIR FACILITY STRUCTURAL
STEEL - SECOND FLOOR FRAMING PLAN
DWG. 5473-S8 REV. 6.
2) 28994-2379-M13
3) 28994-2379-S00
4) 28994-2379-S08
5) 28994-2379-S09

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PROJECT NORTH

PROJECT: ONTC HEATING AND VENTILATION UPGRADES 2379 - CAR REPAIR SHOP NORTH BAY, ONTARIO

DRAWING: ERV-1 SUPPORT STEEL SECTIONS AND DETAILS SHEET 3

DESIGN: B.P.

DRAWN: M.M.

CHECKED: T.L.

JLR #: 28994

DRAWING #: 28994-2379-S10

PLOT DATE: March 26, 2021 9:29:45 AM

