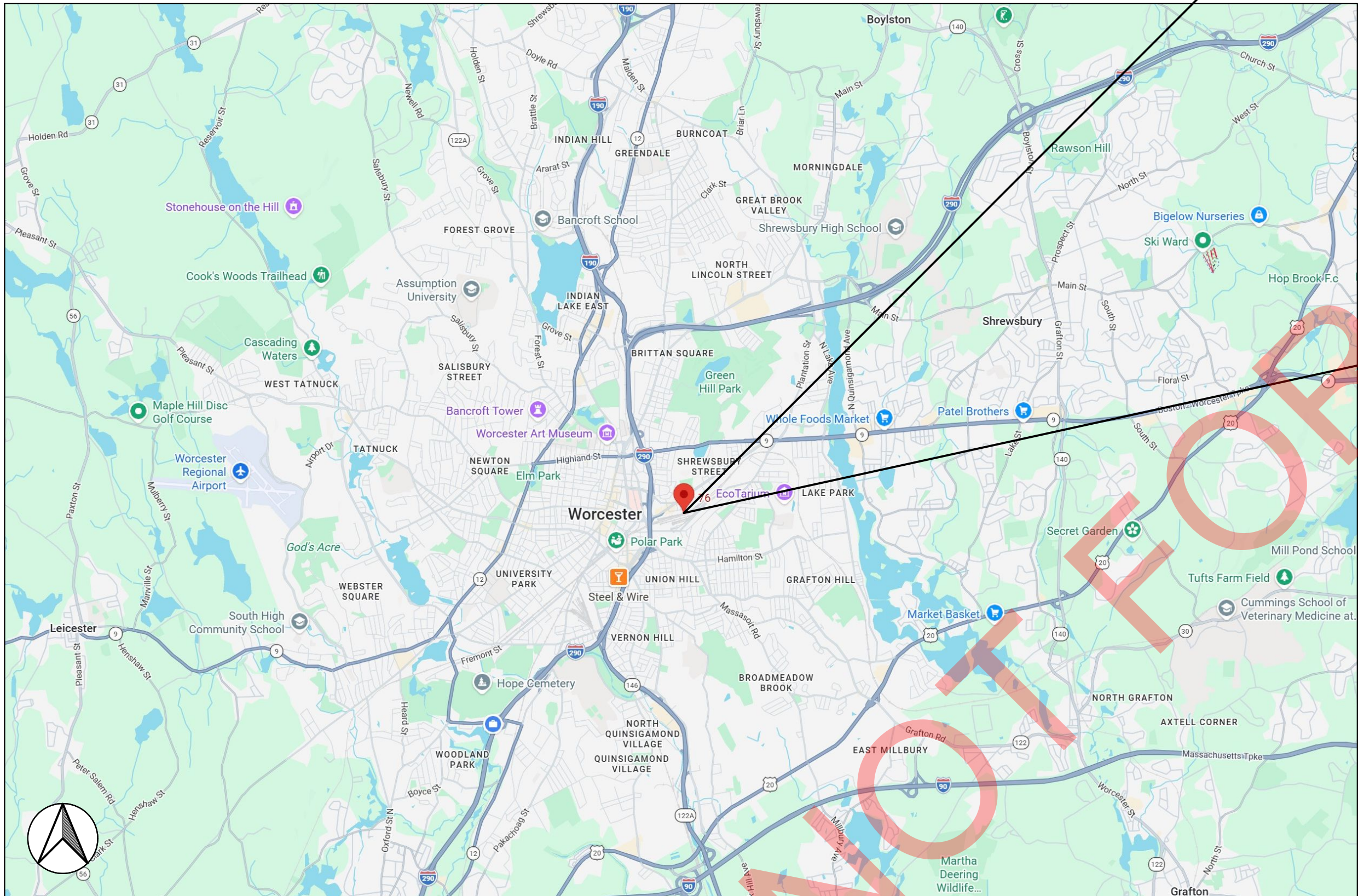


ROOF REPLACEMENT AND REPAIRS
76 EAST WORCESTER ST.

FOR THE
CITY OF WORCESTER
DEPARTMENT OF PUBLIC WORKS AND PARKS

LOCATED AT
20 EAST WORCESTER ST. WORCESTER, MA 01604

BID SET
AUGUST 2026



AREA MAP (N.T.S.)



SATELLITE IMAGE (N.T.S.)

PROJECT ADDRESS:
76 EAST WORCESTER ST.
WORCESTER, MA 01604



STREET VIEW

CODE INFORMATION

SCOPE OF WORK: DEMOLITION AND REPLACEMENT OF EXISTING ROOF AND CLERESTORY WINDOW GLAZING UNITS. WORK ALSO INCLUDES STRUCTURAL REPAIRS, INCLUDING STEEL DECKING AND FRAMING REPLACEMENT, MASONRY BACKUP WALL REPLACEMENT, AND REPOINTING AND REPAIR OF FACE BRICK.

CODE REQUIREMENTS (IBC 2021)

OCCUPANCY CLASSIFICATION: S-1 MOTOR VEHICLE REPAIR GARAGE

CONSTRUCTION TYPE: IIB

HEIGHT (IBC 504.3): 7'5" ALLOWED (WITH SPRINKLER), 24' ACTUAL.

STORIES (IBC 504.4): 4 STORIES ALLOWED, 1 STORY ACTUAL.

AREA (IBC 506): 70,000 S.F. ALLOWED (WITH SPRINKLER), 26,172 S.F. ACTUAL

CHAPTER 7 | ALTERATIONS LEVEL 1 (IEBC 2021)

701 GENERAL

701.1 - SCOPE: LEVEL 1 ALTERATIONS AS DESCRIBED IN SECTION 602 (IEBC 2021) 602.1: LEVEL 1 ALTERATIONS INCLUDE THE REMOVAL AND REPLACEMENT...OF EXISTING MATERIALS, ELEMENTS, ...USING NEW MATERIALS, ELEMENTS...THAT SERVE THE SAME PURPOSE.) SHALL COMPLY WITH THE REQUIREMENTS OF THIS CHAPTER.

701.2 - CONFORMANCE: THE BUILDING OR PORTION THEREOF SHALL NOT BE ALTERED SUCH THAT THE BUILDING BECOMES LESS SAFE THAN ITS EXISTING CONDITION.

701.3 - FLOOD HAZARD AREAS: (NOT APPLICABLE).

702 BUILDING ELEMENTS AND MATERIALS

702.1-6 - (NOT APPLICABLE)

702.7 - MATERIALS AND METHODS: "NEW WORK SHALL COMPLY WITH THE MATERIALS AND METHODS REQUIREMENTS IN THE...INTERNATIONAL ENERGY CONSERVATION CODE, ...AS APPLICABLE. THAT SPECIFY MATERIALS STANDARDS, DETAIL OF INSTALLATION AND CONNECTION...AND CONTINUITY OF ANY ELEMENT, COMPONENT OR SYSTEM IN THE BUILDING." THE NEW GLAZING SYSTEM SHALL COMPLY WITH THE U-VALUE REQUIREMENTS OF THE IECC 2021.

702.8 - ADDITIONS AND REPLACEMENTS OF EXTERIOR WALL COVERINGS AND EXTERIOR WALL ENVELOPES: "WHERE AN EXTERIOR WALL COVERING...IS...REPLACED, COMPLIANCE WITH SECTIONS 805.2 AND 805.3 OF THIS CODE IS REQUIRED." EXISTING EXTERIOR BRICK WALL COVERING WILL BE REPLACED IN KIND WITH NEW MATCHING BRICK, WITH NO INCREASE TO THE DESIGN GRAVITY OR LATERAL LOADS.

703 FIRE PROTECTION

703.1 - GENERAL: ALTERATIONS SHALL BE DONES IN A MANNER THAT MAINTAINS THE LEVEL OF FIRE PROTECTION PROVIDED.

704 MEANS OF EGRESS

(NOT APPLICABLE)

705 REROOFING

705.1 - GENERAL: "MATERIALS AND METHODS OF APPLICATION USED FOR...REPLACING AN EXISTING ROOF COVERING SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 15 OF THE INTERNATIONAL BUILDING CODE". THE EXISTING MAIN ROOF STRUCTURE DOES NOT COMPLY WITH THE CURRENT 35 PSF DESIGN SNOW LOAD. THE NEW ROOF ASSEMBLY SHALL BE PITCHED AT 1/8" VERTICAL UNITS TO 12 HORIZONTAL UNITS TO COMPLY WITH THE STRUCTURAL REQUIREMENT TO KEEP THE NEW INSULATION THICKNESS AS CLOSE TO THE EXISTING AS POSSIBLE. THIS IS TO ALLOW SNOW TO MELT MORE QUICKLY FROM BUILDING HEAT LOSS. TO KEEP SNOW BULK OFF OF THE ROOF AS MUCH AS POSSIBLE TO NOT STRESS THE EXISTING STRUCTURE. ADDITIONAL DRAIN BOWLS ARE ADDED THROUGH THIS PROJECT TO ALLOW FOR POSITIVE ROOF DRAINAGE.

705.2 - ROOF REPLACEMENT: SHALL INCLUDE THE REMOVAL OF ALL EXISTING LAYERS OF ROOF COVERINGS DOWN TO THE ROOF DECK. THIS PROJECT QUALIFIES AS A ROOF REPLACEMENT.

705.3 - ROOF RECOVERING: (NOT APPLICABLE)

705.4 - REINSTALLATION OF MATERIALS: (NOT APPLICABLE)

705.5 - FLASHINGS: ALL EXISTING ROOF FLASHINGS TO BE REPLACED WITH NEW THROUGH THIS PROJECT.

706 STRUCTURAL

706.1 - GENERAL: REROOFING PERMIT IS REQUIRED AND THE PROVISIONS OF THIS SECTION SHALL APPLY.

706.2 - ADDITION OR REPLACEMENT OF ROOFING: THE EXISTING MAIN ROOF STRUCTURE DOES NOT COMPLY WITH THE CURRENT DESIGN SNOW LOAD (35 PSF) INCLUDING APPLICABLE DRIFTED SNOW ADJACENT TO THE UPPER CLERESTORY ROOF. THE WEIGHT OF THE NEW ROOFING CANNOT EXCEED THE WEIGHT OF THE EXISTING BY MORE THAN 5%. THE R-VALUE OF THE NEW ROOF SHALL BE AS LOW AS POSSIBLE TO PROVIDE HEAT LOSS THROUGH THE ROOF TO MELT SNOW.

706.3 - ADDITIONAL REQUIREMENTS: ROOF TO MASONRY WALL TIES ARE NOT REQUIRED DUE TO THE UTMATE DESIGN WIND SPEED OF A GARAGE BUILDING (RISK CATEGORY II) IN WORCESTER, MA BEING LESS THAN 130 MPH.

707 ELECTRICAL

(NOT APPLICABLE)

708 ENERGY CONSERVATION

708.1 - MINIMUM REQUIREMENTS: "LEVEL 1 ALTERATIONS DO NOT REQUIRE THE ENTIRE BUILDING...TO COMPLY WITH THE...INTERNATIONAL ENERGY CONSERVATION CODE...THE ALTERATIONS SHALL CONFORM TO THE ENERGY REQUIREMENTS...AS THEY RELATE TO NEW CONSTRUCTION ONLY." THE NEW ROOF ASSEMBLY INTENTIONALLY DOES NOT MEET THE CURRENT REQUIREMENTS OF THE IECC TO ALLOW FOR MAXIMUM HEAT LOSS THROUGH THE ROOF TO MELT SNOW. PER RECOMMENDATION OF THE STRUCTURAL ENGINEER, REFER TO 705.1 AND 706.2.

LIST OF DRAWINGS

T1 - COVER SHEET

ARCHITECTURAL

A1 - DEMO AND NEW ROOF DETAILS

A2 - ROOF DETAILS

A3 - CLERESTORY DETAILS

STRUCTURAL

S0.1 - TYPICAL ABBREVIATIONS & GENERAL NOTES

S1.1 - ROOF FRAMING PLAN

S1.2 - SECTIONS

S1.3 - TYPICAL DETAILS

DRAWING TITLE

COVER SHEET

JOB NUMBER: 1864

JOB TITLE

ROOF REPLACEMENT & REPAIRS
76 E. WORCESTER ST.
WORCESTER DPW

CONSULTANT

ARCHITECT

NAULT ARCHITECTS, INC.
71 HOPE AVENUE TEL: (508) 755-6134
WORCESTER, MA 01603 ADMIN@NAULTARCHITECTS.COM

SCALE

AS NOTED

DRAWING NO.

T1

DATE

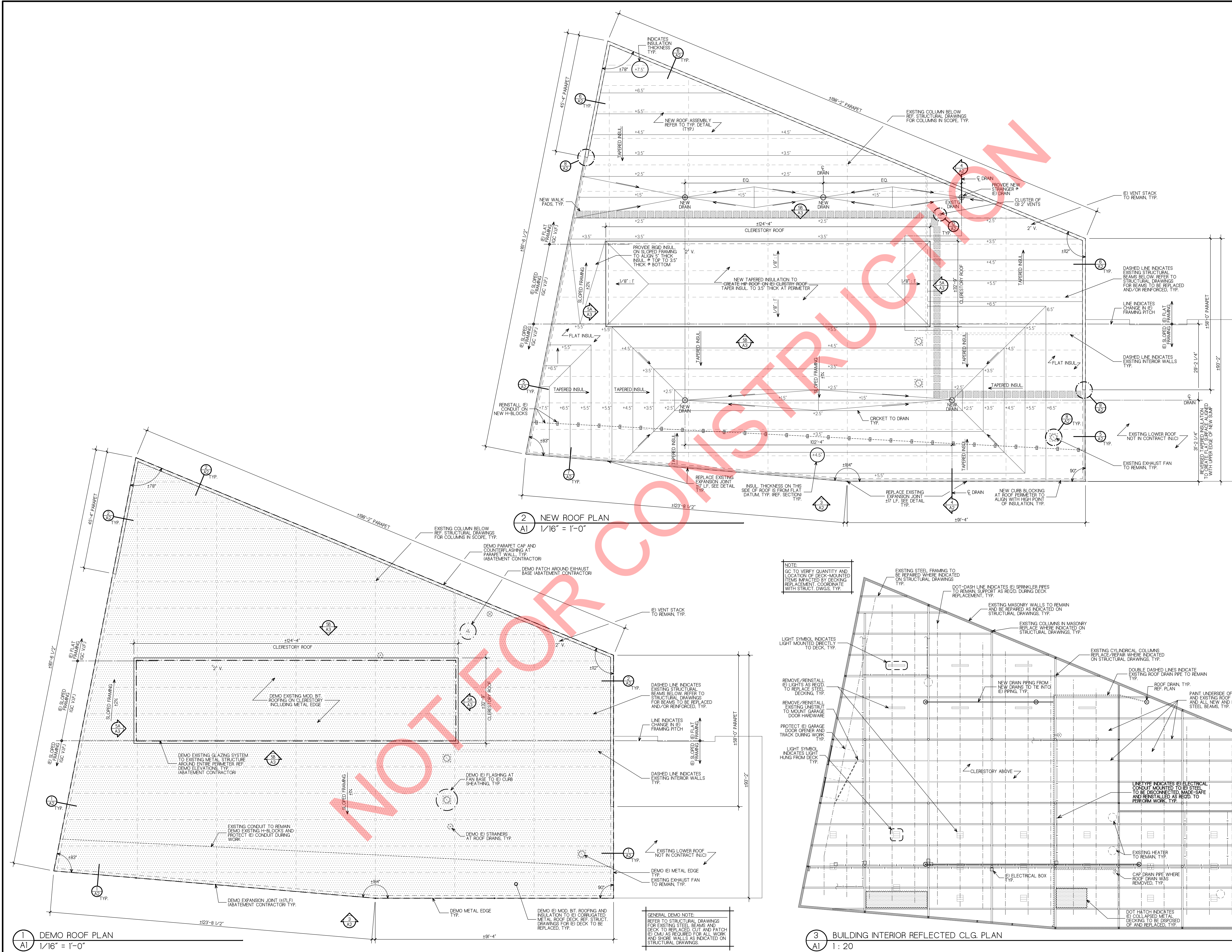
AUGUST 2026

ARCHITECT:

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71 HOPE AVENUE
WORCESTER, MA 01603

TEL: (508) 755-6134
EMAIL: ADMIN@NAULTARCHITECTS.COM



GENERAL NOTES

- GC TO VERIFY EXISTING DIMENSIONS IN FIELD, INDICATED BY (E) SYMBOL.
- REFER TO SECTION 02 08 00 FOR ASBESTOS-CONTAINING MATERIALS.
- EXISTING ROOF IS IN A PARTIAL STATE OF COLLAPSE. EXERCISE EXTREME CAUTION WHEN ON EXISTING ROOF.

KEY PLAN
SCALE | 1 : 100

DRAWING TITLE
DEMO AND NEW ROOF PLANS

JOB NUMBER: 1864
JOB TITLE
**ROOF REPLACEMENT & REPAIRS
76 E. WORCESTER ST.
WORCESTER DPW**

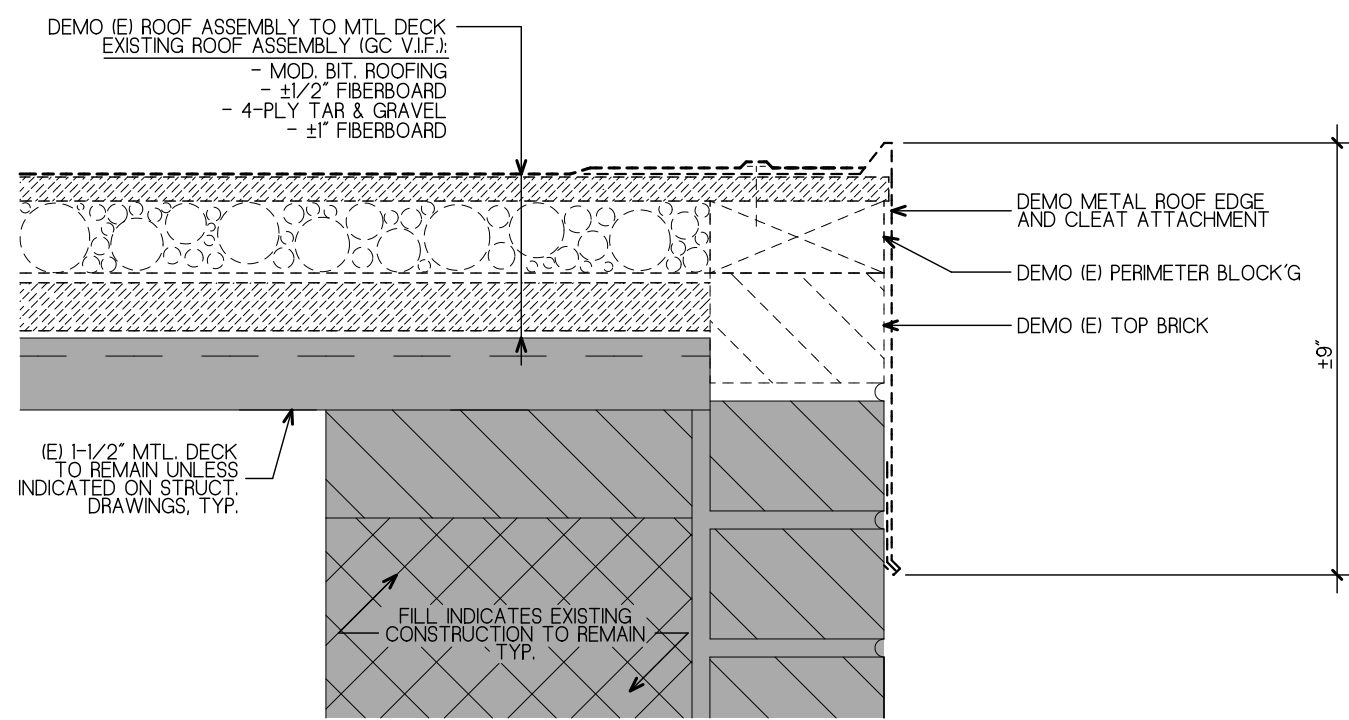
CONSULTANT

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NAULT ARCHITECTS, INC.
111 HOPE AVENUE
WORCESTER, MA 01603
TEL: 508.775.8123
ADMIN@NAULTARCHITECTS.COM

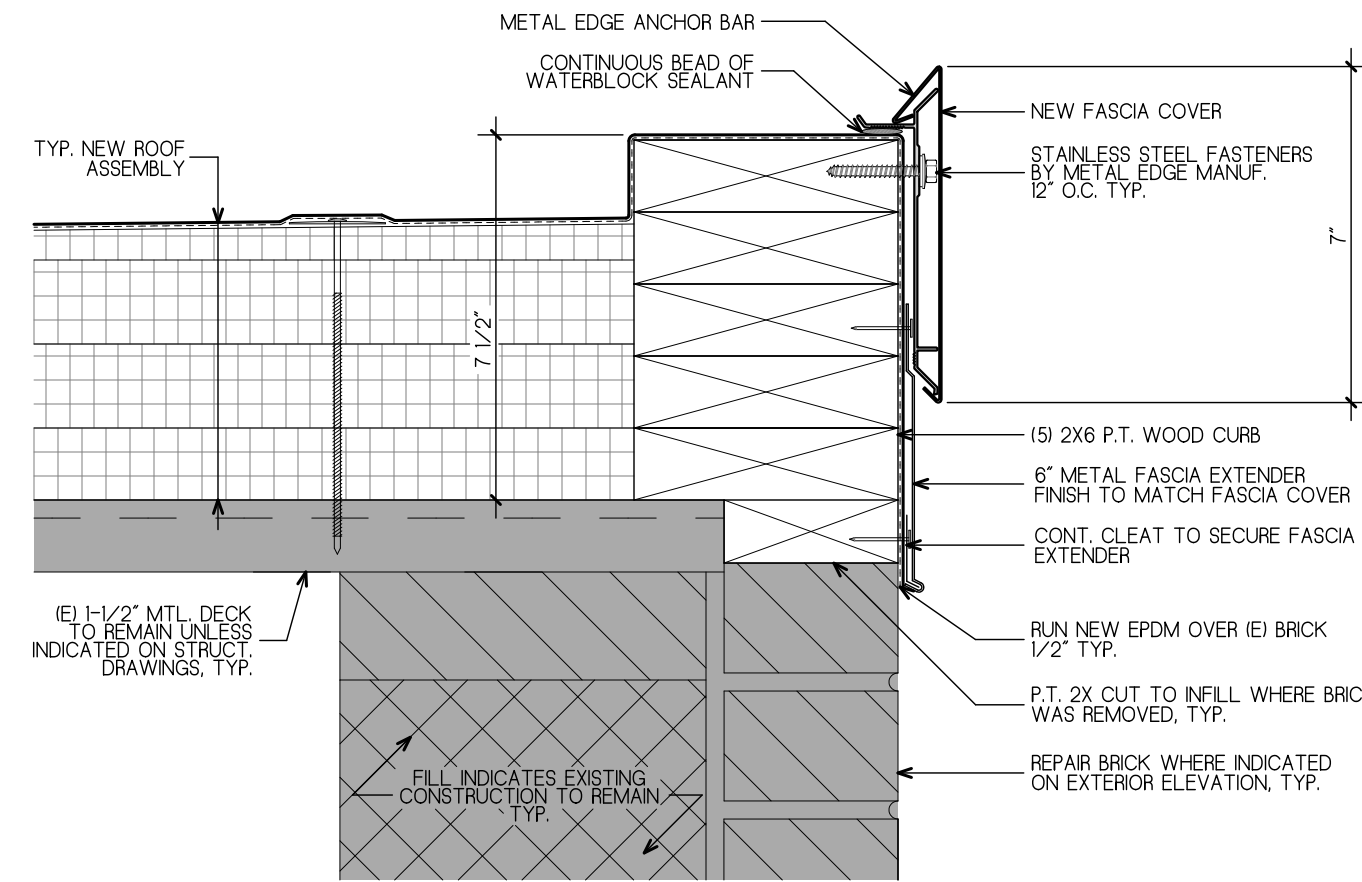
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A1

SCALE
AS NOTED

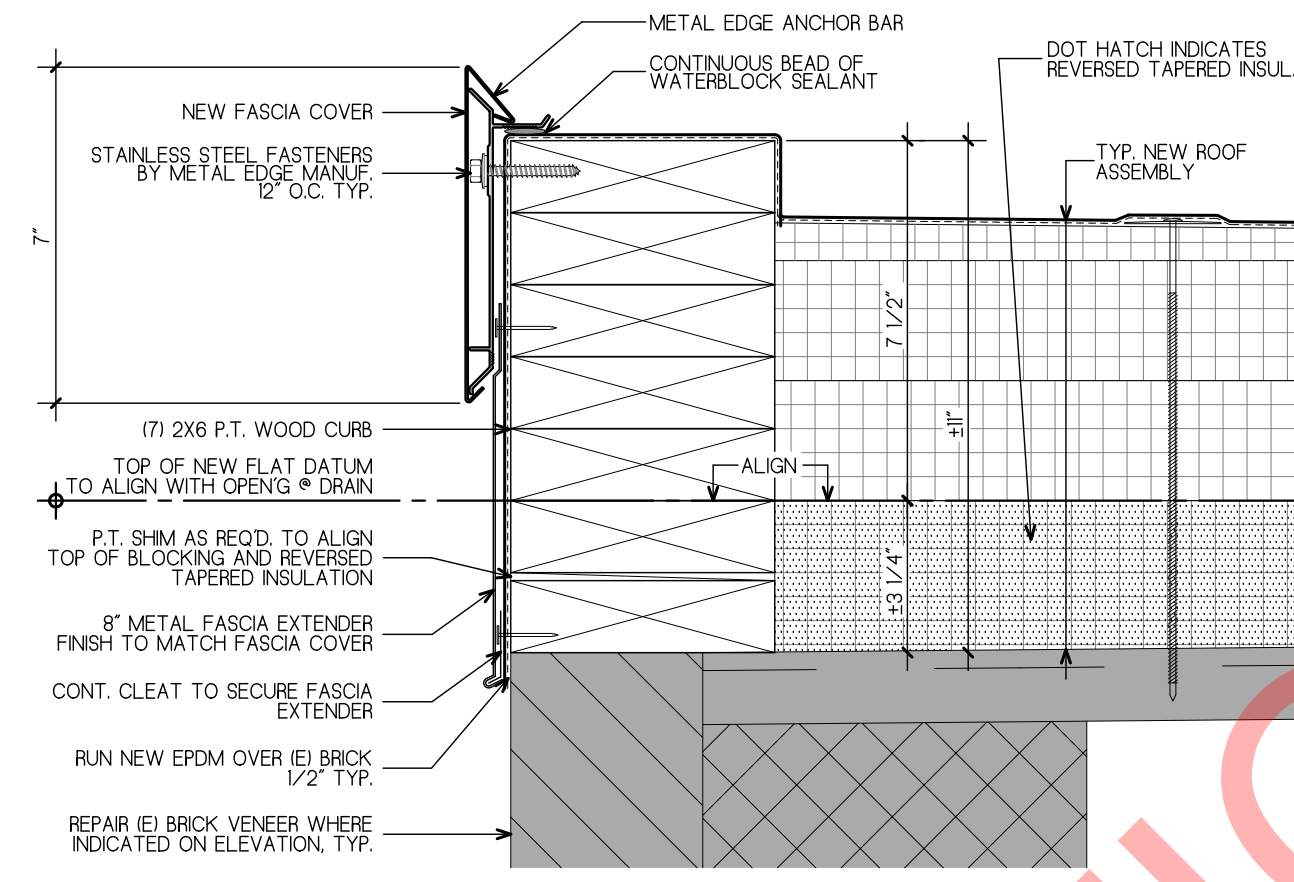
DATE
AUGUST 2026



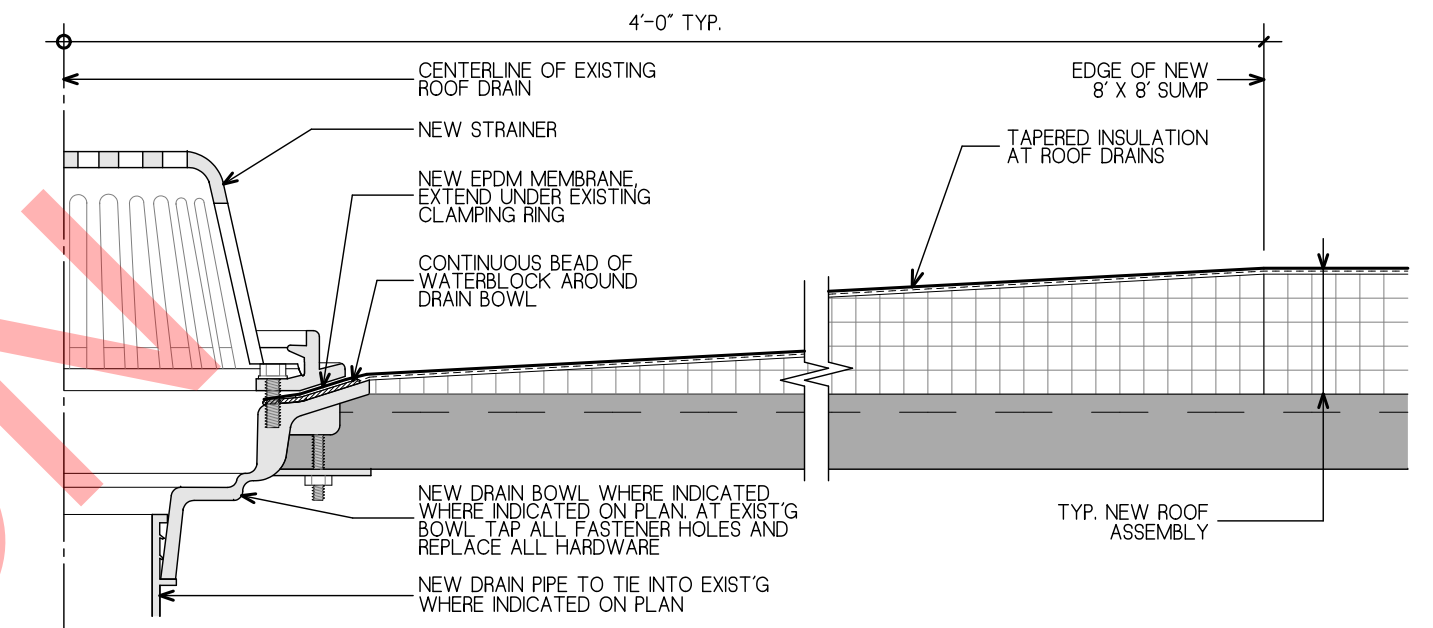
1 DEMO ROOF EDGE DETAIL
3" = 1'-0"



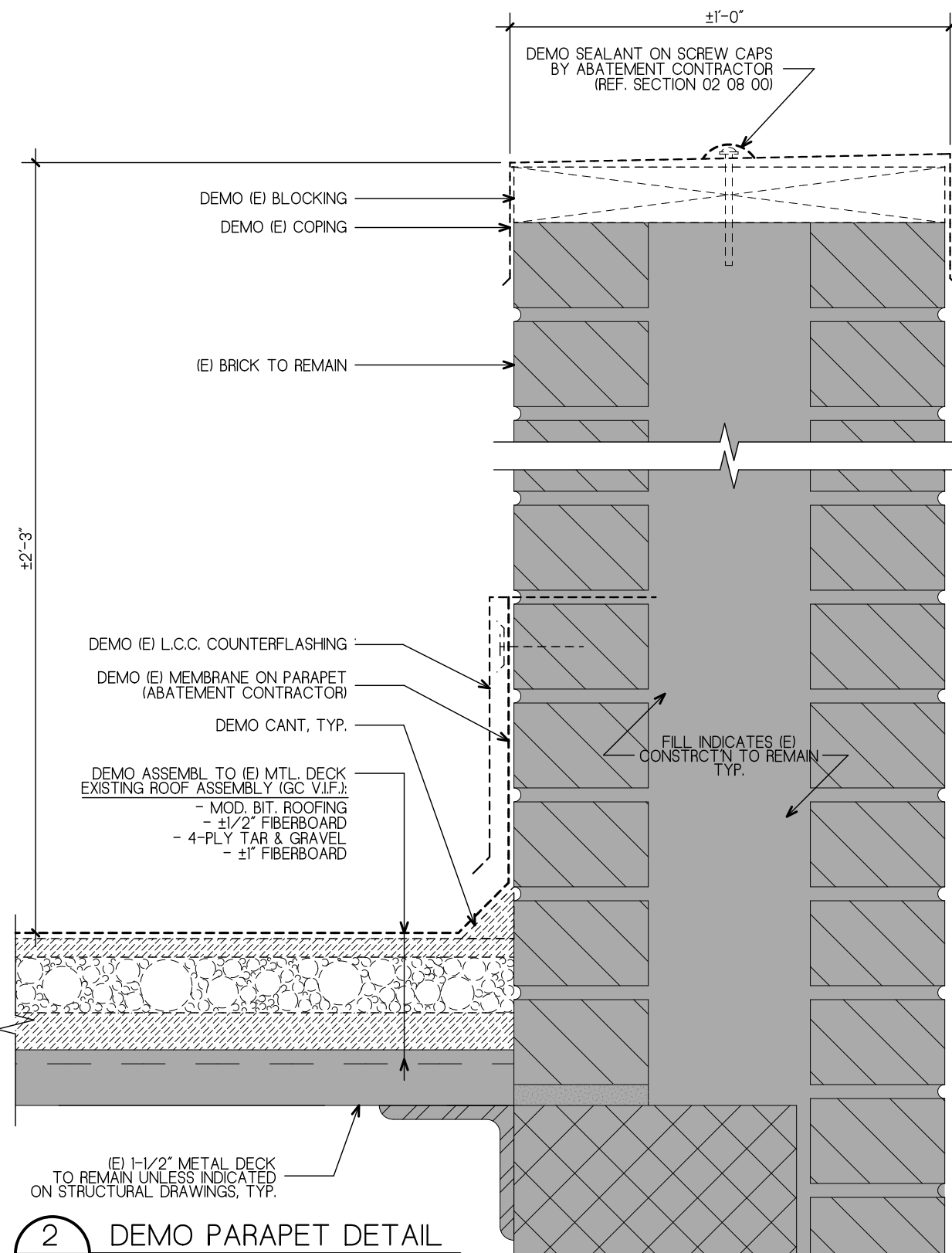
5 TYPICAL NEW ROOF EDGE DETAIL
3" = 1'-0"



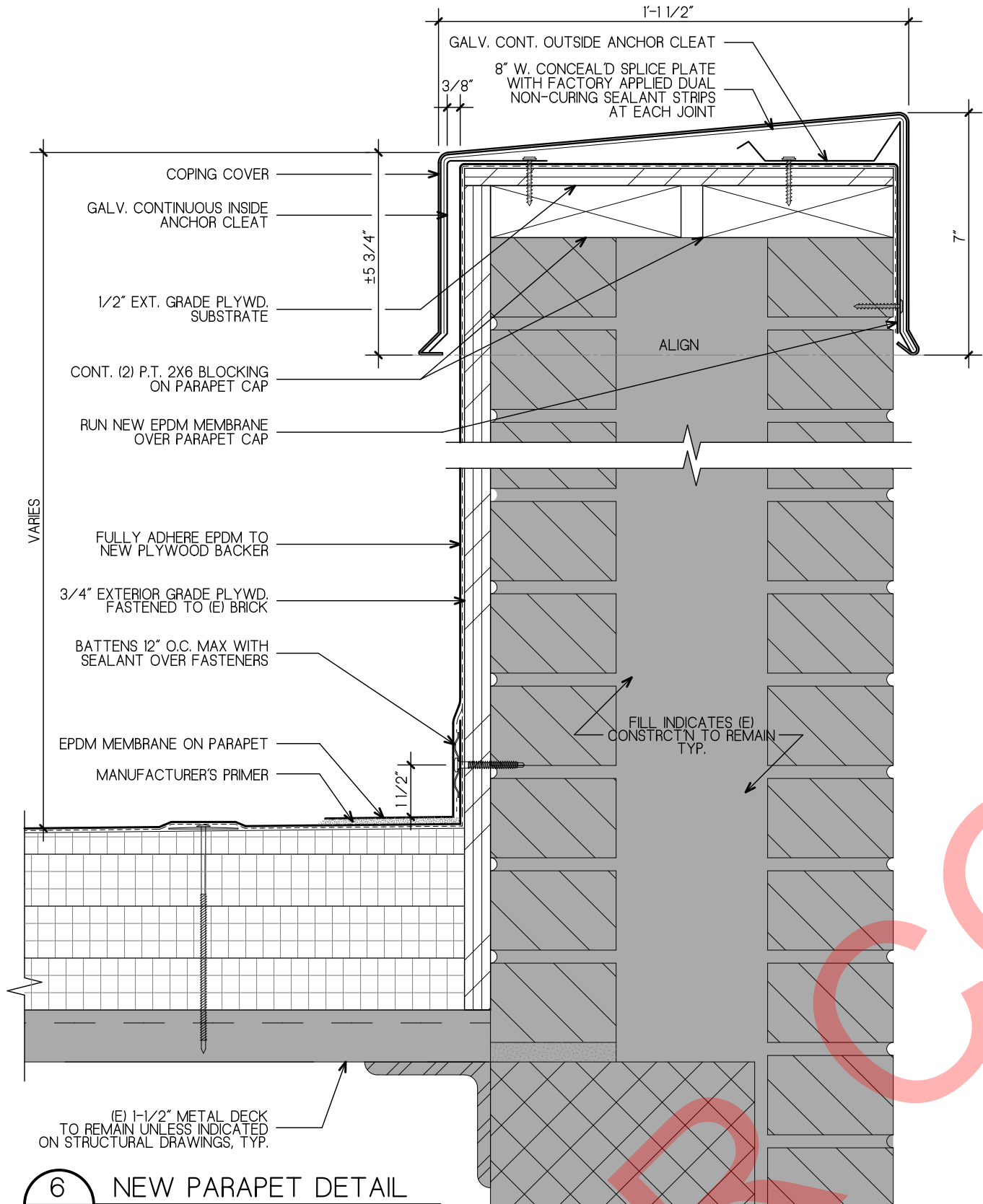
7 TYP. ROOF EDGE AT SLOPING DECK
3" = 1'-0"



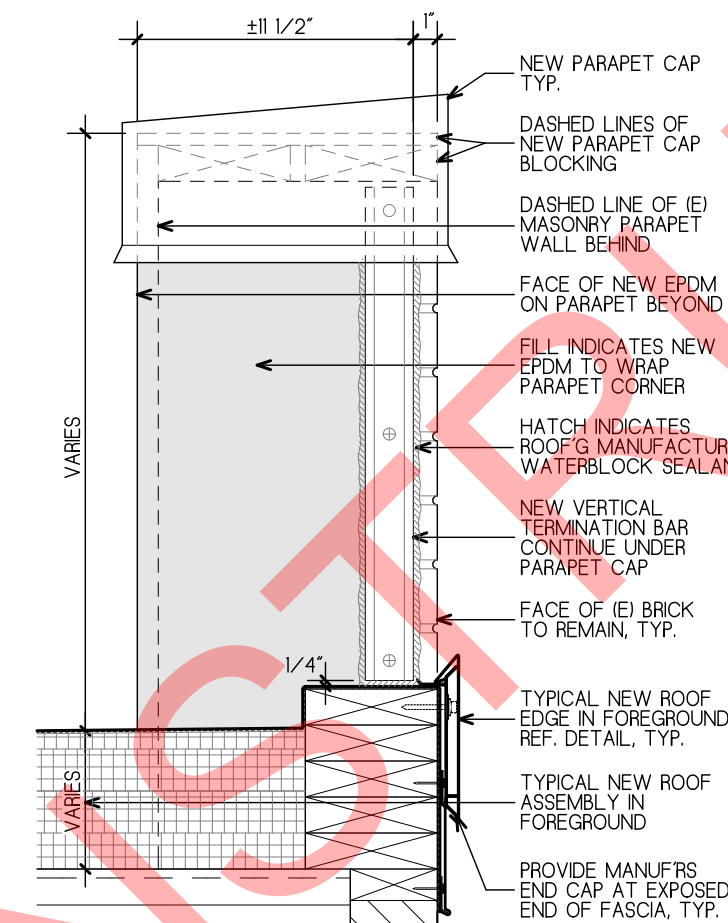
10 TYP. DRAIN DETAIL
3" = 1'-0"



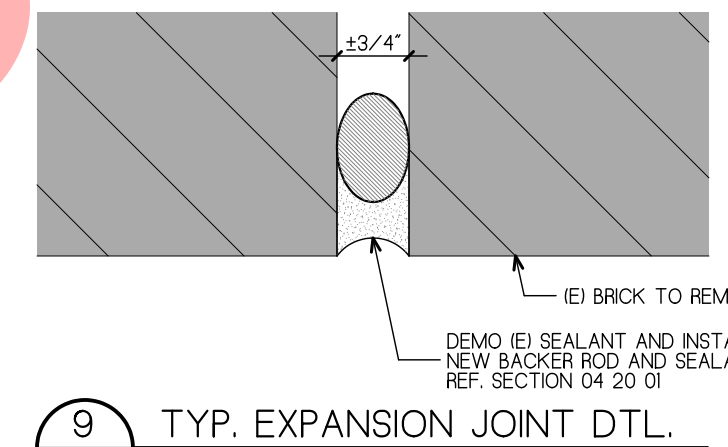
2 DEMO PARAPET DETAIL
3" = 1'-0"



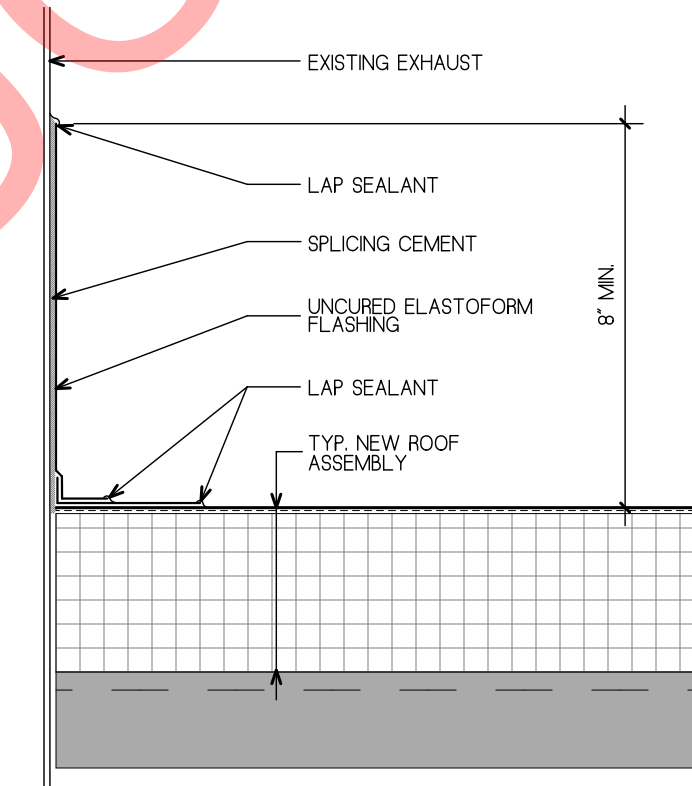
6 NEW PARAPET DETAIL
3" = 1'-0"



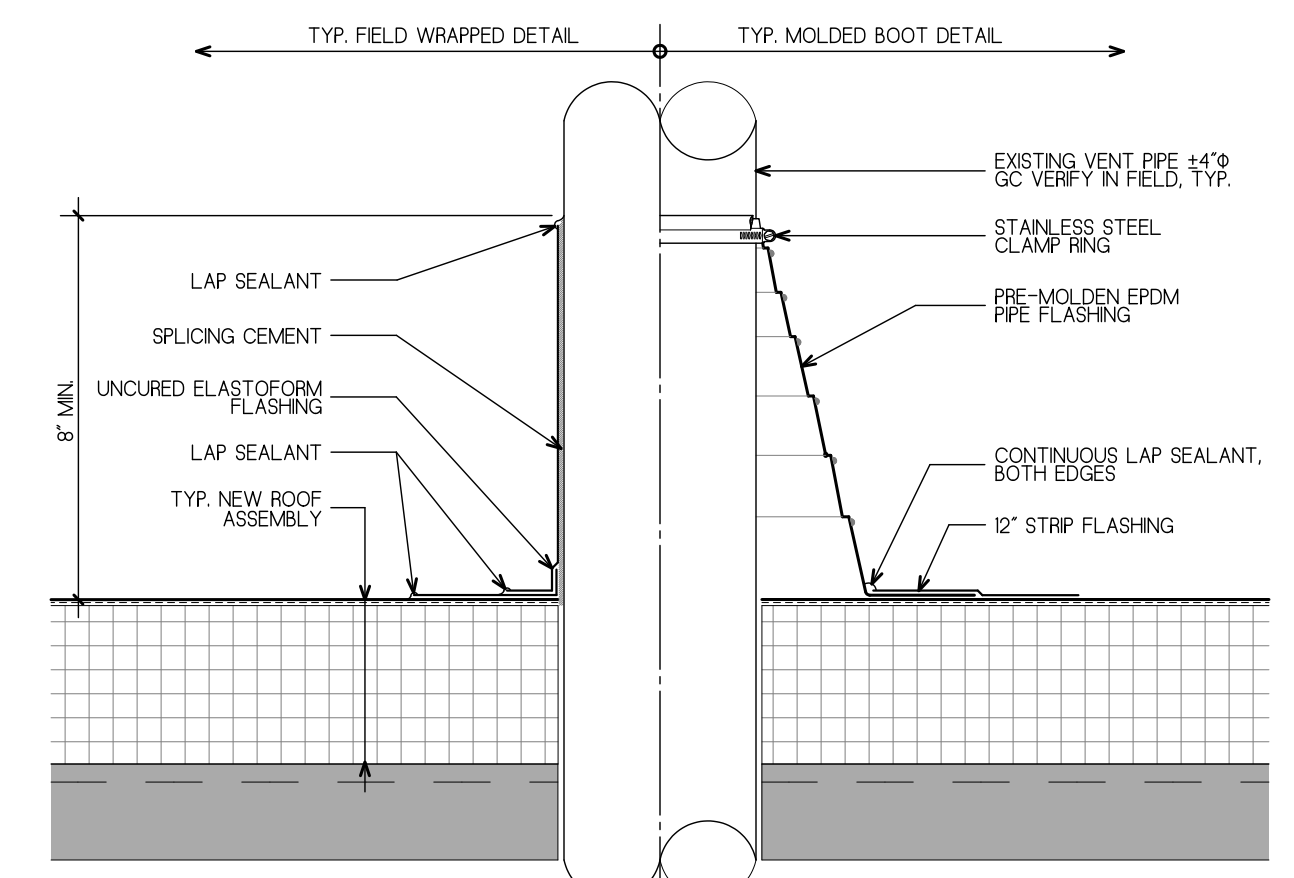
8 TYP. PARAPET END ELEVATION
1 1/2" = 1'-0"



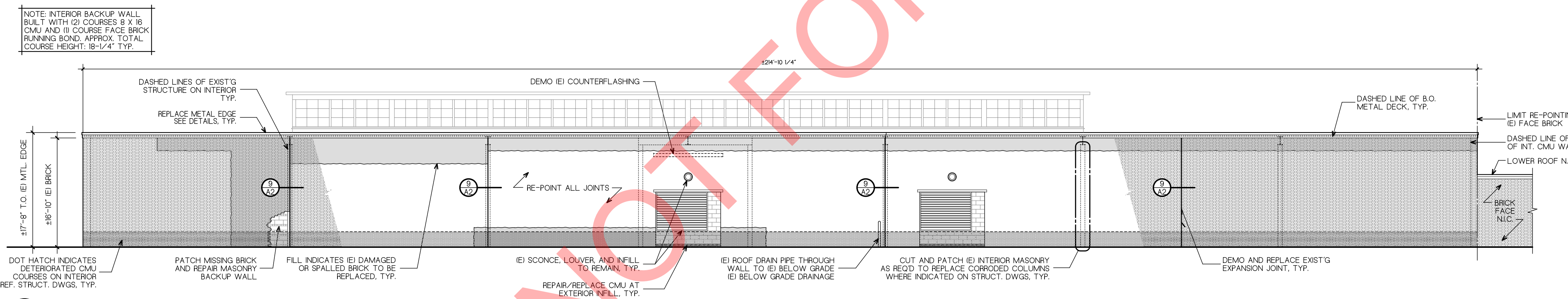
9 TYP. EXPANSION JOINT DTL.
6" = 1'-0"



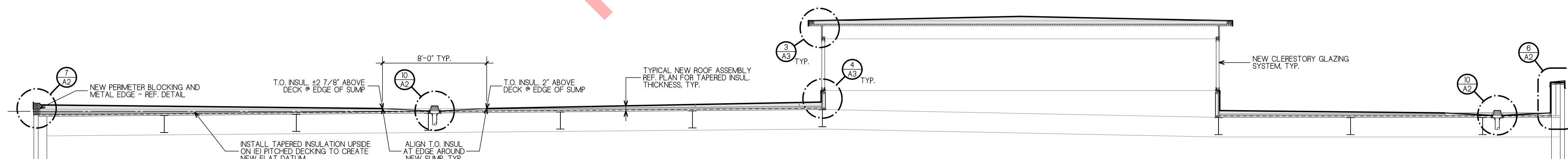
11 TYP. EXHAUST FLASHING DTL.
3" = 1'-0"



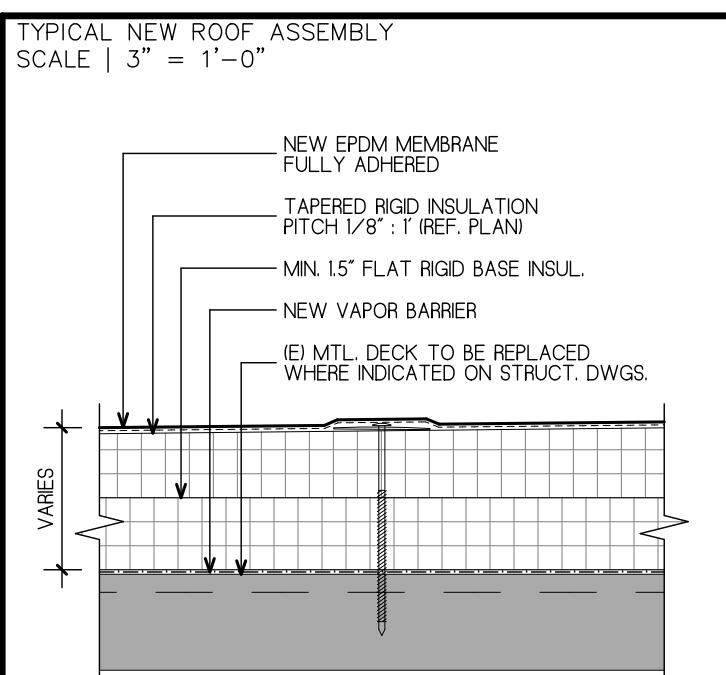
12 TYP. PIPE FLASHING DETAIL
3" = 1'-0"



3 EXTERIOR ELEVATION
3/32" = 1'-0"

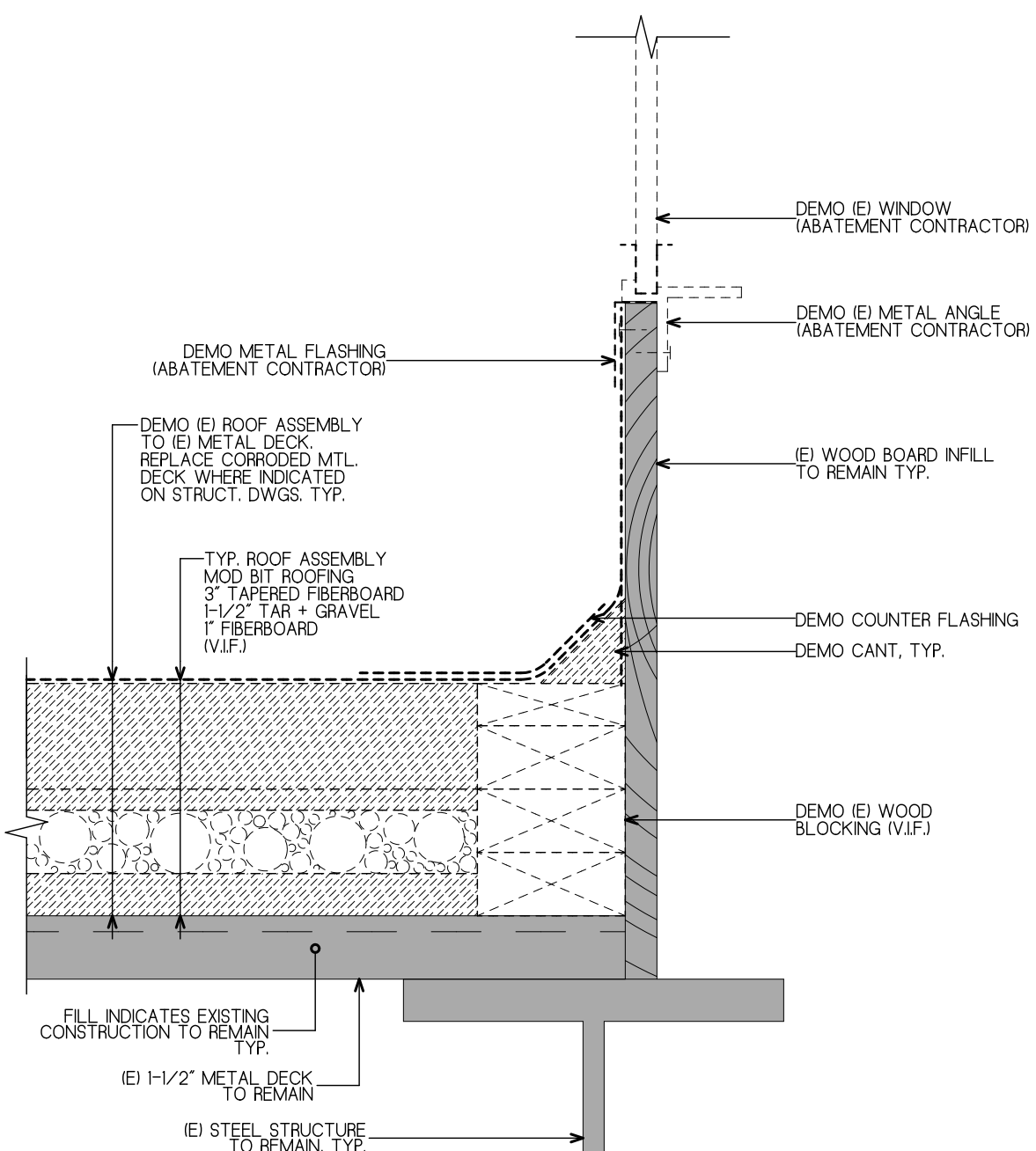


4 NEW FULL ROOF SECTION
3/16" = 1'-0"

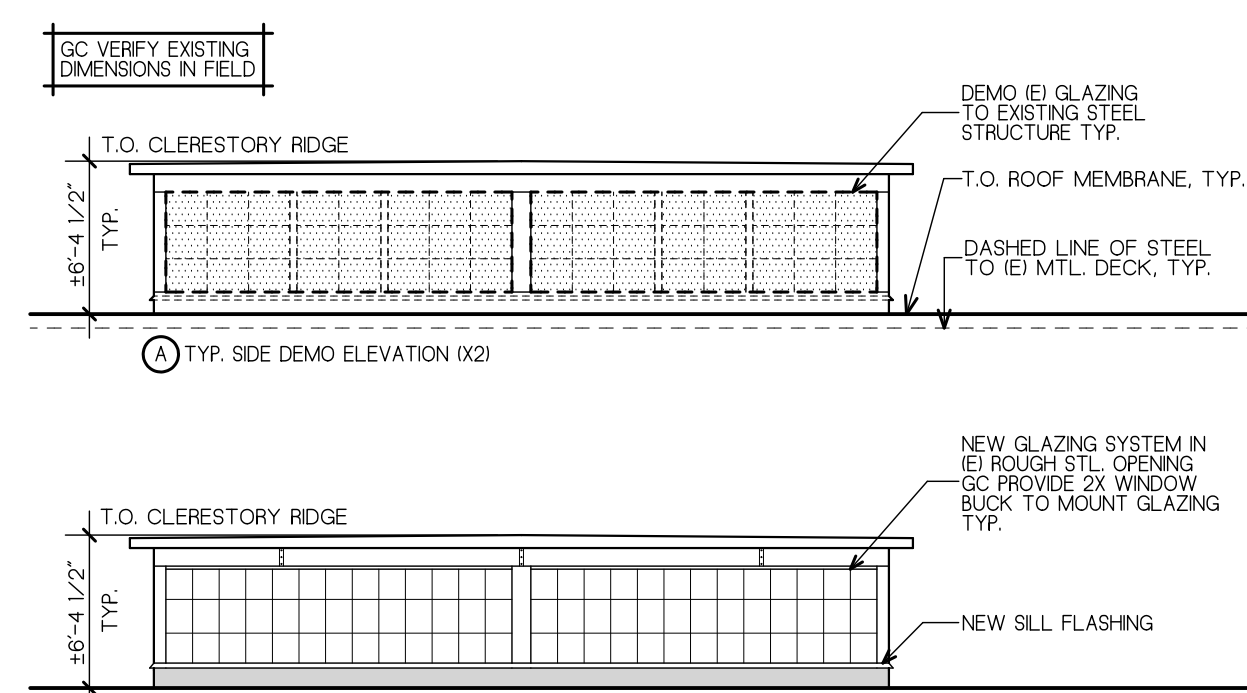


DRAWING TITLE	
ROOF DETAILS	
JOB NUMBER: 1864 JOB TITLE	
ROOF REPLACEMENT & REPAIRS 76 E. WORCESTER ST. WORCESTER DPW	
CONSULTANT	
ARCHITECT	
NAULT ARCHITECTS, INC. 111 HOPE AVENUE TEL: 508.775.8133 WORCESTER, MA 01603 ADDRESS@NAULTARCHITECTS.COM	
DRAWING NO.	A2
SCALE	
AS NOTED	DATE
	AUGUST 2026

1 DEMO HEAD DETAIL
3" = 1'-0"



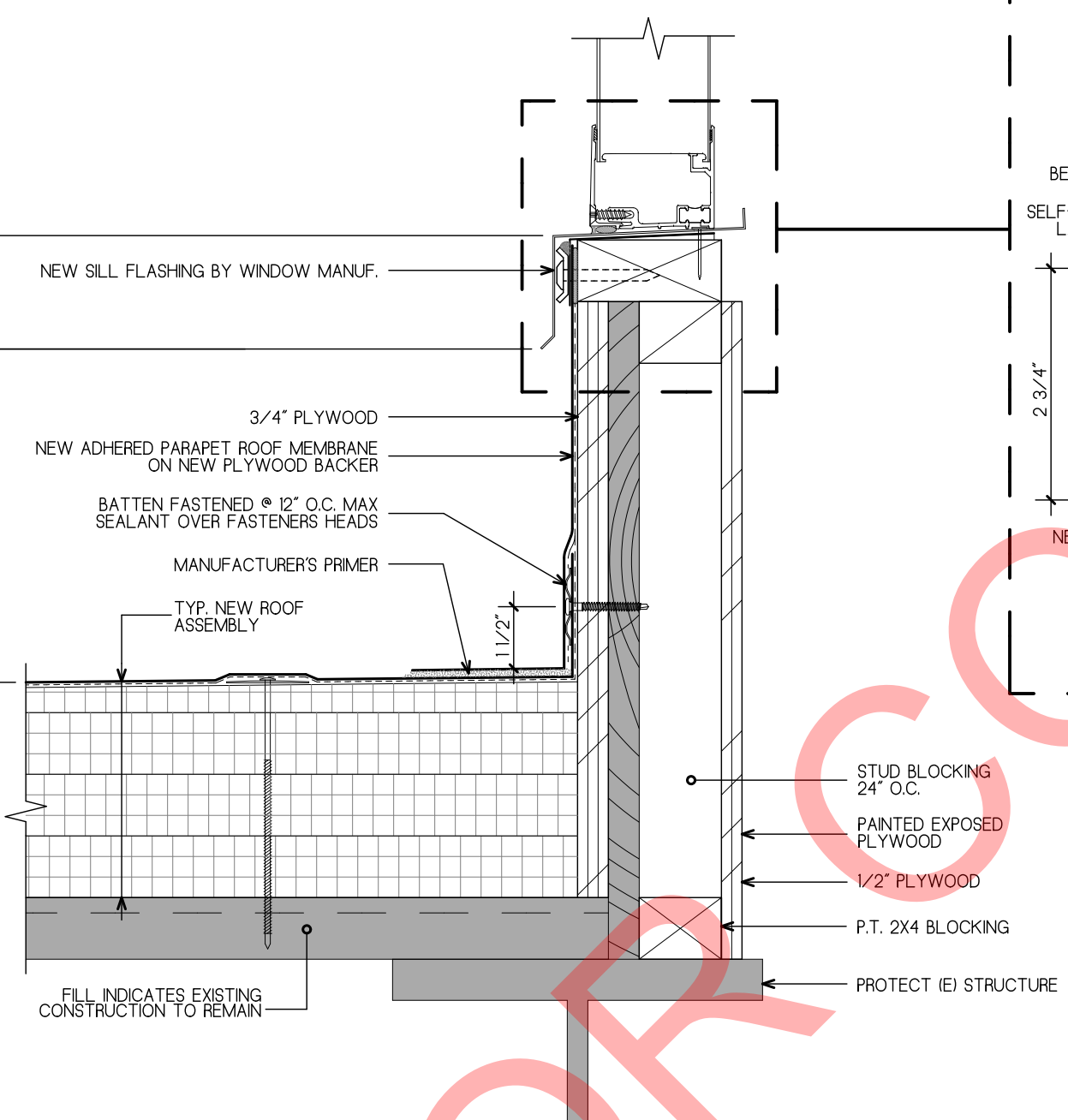
2 DEMO SILL DETAIL
3" = 1'-0"



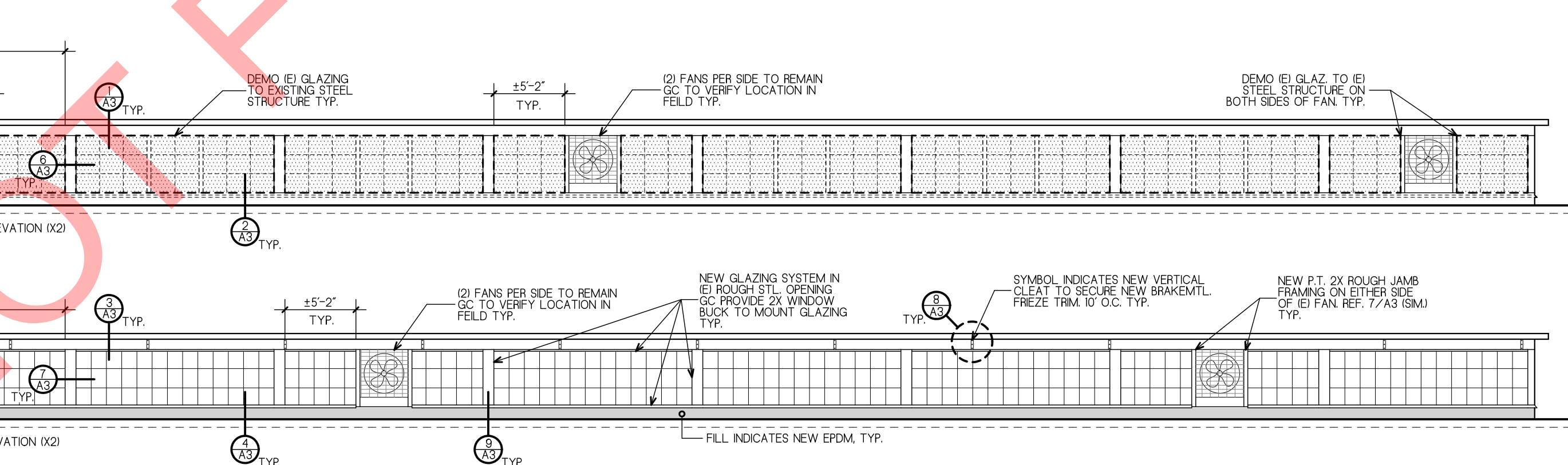
5 CLERESTORY ELEVATIONS
1/8" = 1'-0"



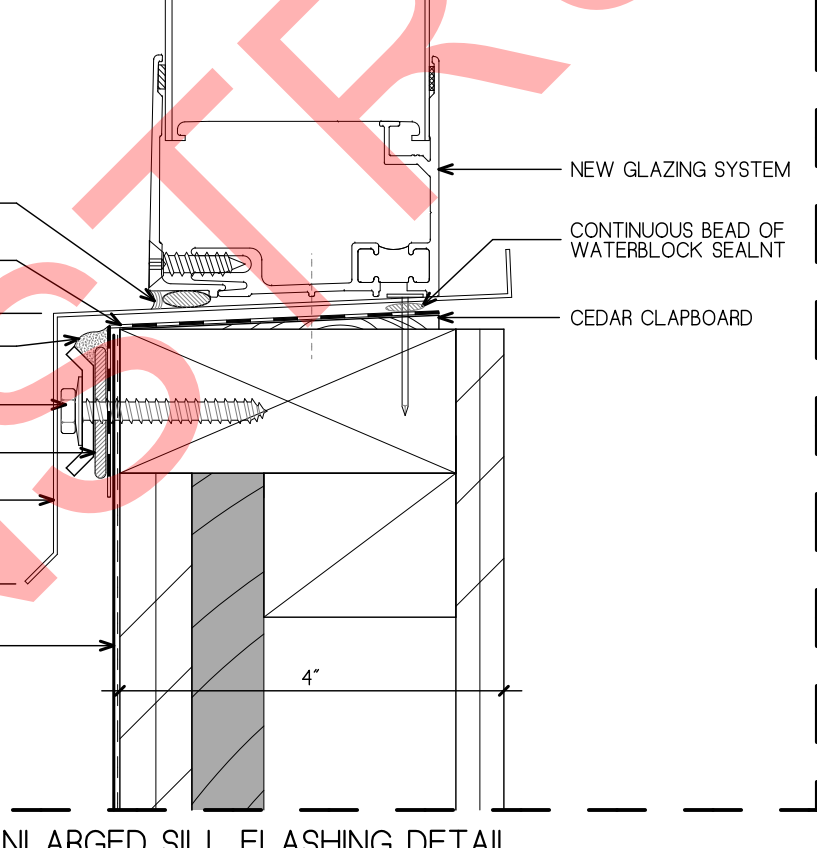
3 NEW HEAD DETAIL
3" = 1'-0"



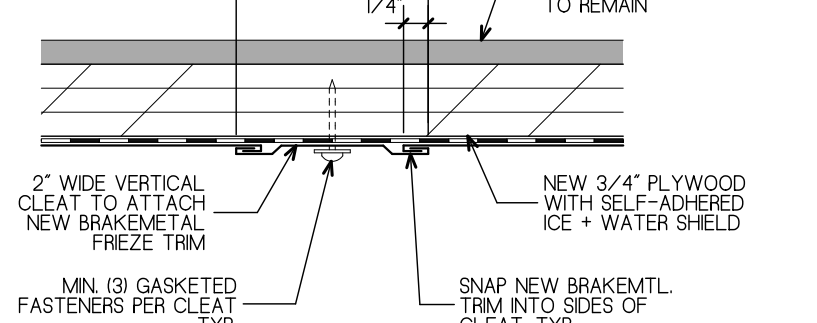
4 NEW SILL DETAIL
3" = 1'-0"



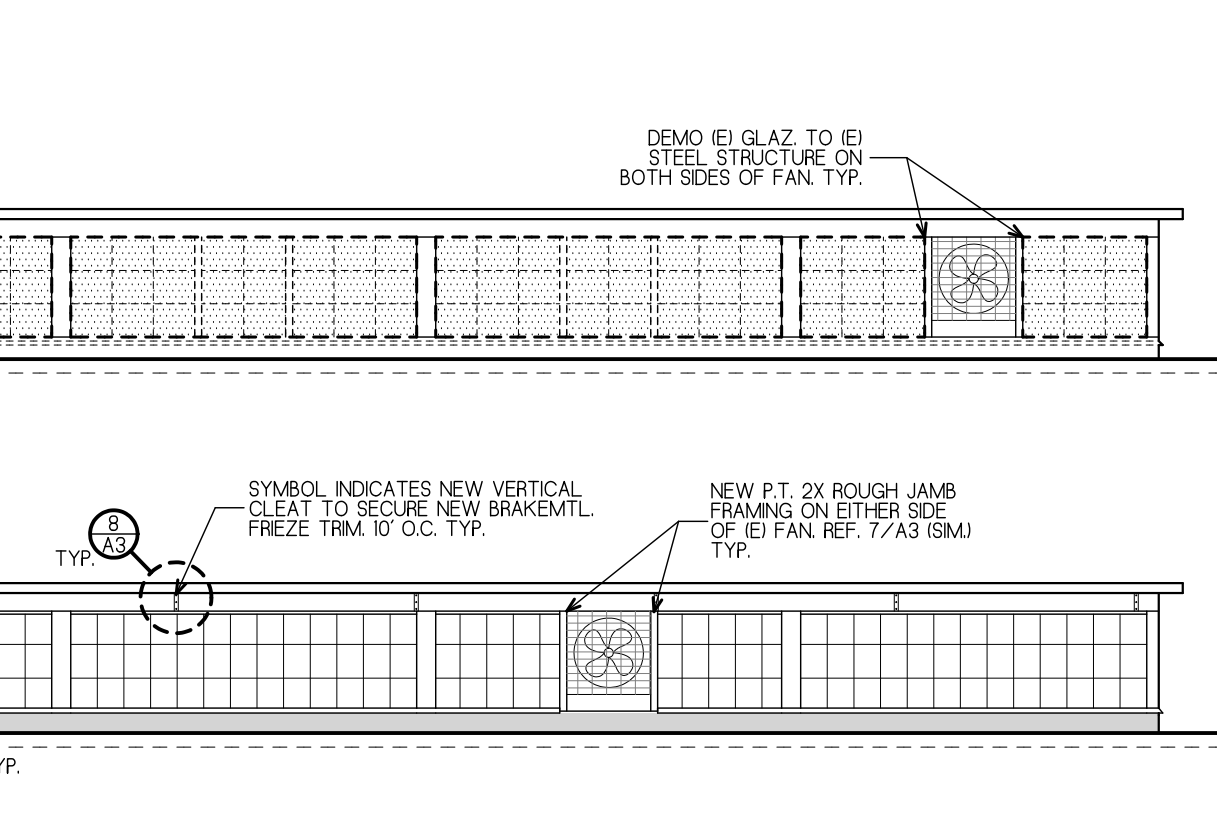
7 NEW JAMB DETAIL
3" = 1'-0"



8 TYP. PLAN DTL. @ VERT. CLEAT
6" = 1'-0"



9 TYP. DETAIL AT STRUCTURE
3" = 1'-0"



TYPICAL NEW ROOF ASSEMBLY
SCALE | 3" = 1'-0"

DRAWING TITLE
CLERESTORY DETAILS

JOB NUMBER: 1864
JOB TITLE
ROOF REPLACEMENT & REPAIRS
76 E. WORCESTER ST.
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A3

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DATE
AUGUST 2026

STRUCTURAL ABBREVIATIONS & SYMBOLS	
ADD'L	ADDITIONAL
ALUM.	ALUMINUM
ARCH.	ARCHITECT(URAL)
BLDG.	BUILDING
B.O.F.	BOTTOM OF FOOTING
B.O.S.	BOTTOM OF STEEL
BOT.	BOTTOM
BP.#	BASE PLATE REFERENCE
CJ	CONTROL JOINT
C.L.	CENTERLINE
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONT.	CONTINUOUS
COORD.	COORDINATE
DWG.	DRAWING
(E)	EXISTING
EA.	EACH
E.F.	EACH FACE
EL.	ELEVATION
EQ.	EQUAL
E.W.	EACH WAY
FDN.	FOUNDATION
FIN.	FINISH(ED)
FL.	FLOOR
F.R.P.	FIBERGLASS REINFORCED PLASTIC
F.R.T.	FIRE RETARDANT TREATED
FTG.	FOOTING
GA. (ga.)	GAUGE
GALV.	GALVANIZED (HOT-DIPPED GALVANIZED)
G.C.	GENERAL CONTRACTOR
GEOTECH	GEOTECHNICAL
GYP.	GYPSUM
HORIZ.	HORIZONTAL
H.S.	HIGH STRENGTH
INFO.	INFORMATION
K	KIP
LB.	POUND
LGMF	LIGHT-GAUGE METAL FRAMING
MAX.	MAXIMUM
MECH.	MECHANICAL
MISC.	MISCELLANEOUS
MIN.	MINIMUM
MFR.	MANUFACTURER
O.C. (o.c.)	ON CENTER
P#	PIER REFERENCE
PEMB	PRE-ENGINEERED METAL BUILDING
PLF (plf)	POUNDS PER LINEAR FOOT
PSF (psf)	POUNDS PER SQUARE FOOT
PSI (psi)	POUNDS PER SQUARE INCH
P.T.	PRESSURE-TREATED
REINF.	REINFORCED
REQ'D	REQUIRED
SCH.	SCHEDULE
SIM.	SIMILAR
SP.	SPACING
S.S.	STAINLESS STEEL
T&B	TOP AND BOTTOM
T.O.P.	TOP OF PIER
T.O.S.	TOP OF STEEL
T.O.SHELF	TOP OF SHELF
T.O.W.	TOP OF WALL
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
VERT.	VERTICAL
W.W.F.	WELDED WIRE FABRIC
@	AT
°	DEGREE
Ø	DIAMETER

GENERAL NOTES

A - CODES:

- 1. 780 CMR (MASSACHUSETTS STATE BUILDING CODE, 10th. EDITION)
- 2. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
- 3. AMERICAN CONCRETE INSTITUTE (ACI)
- 4. CONCRETE REINFORCING STEEL INSTITUTE (CRSI)

B - DESIGN LOADS:

- 1. SNOW LOAD FOR ROOF FRAMING REPLACEMENT:
 - GROUND SNOW LOAD 50 psf
 - EXPOSURE FACTOR 1.0
 - THERMAL FACTOR 1.0
 - RISK CATEGORY II
 - DESIGN SNOW LOAD 35 psf
 - DRIFTING AS PER 780 CMR 1610

C - STRUCTURAL STEEL:

- 1. ALL STRUCTURAL STEEL TO COMPLY WITH ASTM REQUIREMENTS AS FOLLOWS:
 - W-SHAPES A992 fy = 50 ksi
 - HSS TUBES A500 fy = 46 ksi
 - ALL OTHERS A36 fy = 36 ksi
- 2. BOLTED CONNECTIONS TO BE MADE WITH SLIP CRITICAL CONNECTION AS PER ASTM-325.
- 3. MINIMUM THICKNESS OF CONNECTING ANGLES TO BE 3/8".
- 4. ALL EXPOSED WELDING SHALL BE GROUND SMOOTH.
- 5. ALL MISALIGNED BOLT HOLES IN STRUCTURAL STEEL SHALL BE PLUG WELDED SOLID AND REDRILLED FOR SPECIFIED BOLTS.
- 6. G.C. SHALL VERIFY IN WRITING THAT ALL BOLTED CONNECTIONS ARE COMPLETED AS SPECIFIED, AS PER CURRENT AISC STANDARDS AND HAVE BEEN TORQUE-TESTED ACCORDING TO AISC SPECIFICATIONS BEFORE LOADS ARE APPLIED.
- 7. ALL UNUSED BOLT HOLES SHALL BE PLUG WELDED SOLID AND GROUND SMOOTH.
- 8. ALL WELDING (IN SHOP & FIELD) SHALL COMPLY WITH LATEST AWS STANDARDS AND SHALL BE COMPLETED BY AN AWS-CERTIFIED WELDER.
- 9. ALL COLUMNS TO HAVE MASONRY TIES: ASTM 82 (STEEL WIRE 3/16"Ø MINIMUM STANDARD MILL) BEFORE SHOP COAT PAINT IS APPLIED.
- 10. UNLESS OTHERWISE NOTED, ALL STRUCTURAL STEEL SHALL BE PAINTED WITH ONE SHOP COAT OF TNMEC 99G METAL PRIMER OR EQUAL. COLOR TO BE GREY.

D - METAL ROOF DECK:

- 1. METAL ROOF DECK TO BE TYPE "B", 16 GA, 1 1/2" HOT DIPPED GALVANIZED UNLESS OTHERWISE NOTED.
- 2. CLOSURE PLATES TO BE 20 GAUGE GALVANIZED, UNLESS OTHERWISE SHOWN ON PLANS OR SPECIFIED.

E - CONCRETE & MASONRY:

- 1. CONCRETE FOR SLABS-ON-GRADE TO BE 4,000 PSI AT 28 DAYS.
- 2. CONCRETE WORK TO CONFORM TO ACI-318 CODE, LATEST EDITION.
- 3. STEEL COLUMN POCKETS TO BE FILLED WITH CONCRETE AFTER COLUMNS ARE IN PLACE.
- 4. ALL CONCRETE TO BE STONE CONCRETE.
- 5. ISOLATION JOINTS ARE REQUIRED AT EVERY INTERIOR COLUMN (TYPICAL).
- 6. CMU SHALL HAVE MINIMUM ALLOWABLE STRESS OF F'm = 1,900 PSI.
- 7. CMU SUPPLIER SHALL SUBMIT ALL PERTINENT CMU PRODUCT AND DESIGN DATA AND SHALL CERTIFY CMU COMPLIANCE WITH ASTM C 90.
- 8. MASONRY CONTRACTOR TO SUPPLY DUR-O-WALL CLIPS AND LAYOUT TO THE STRUCTURAL STEEL FABRICATOR AND/OR MISCELLANEOUS STEEL FABRICATOR WHERE DUR-O-WALL CLIPS ARE INDICATED TO BE SHOP WELDED TO THE STEEL FRAMING MEMBERS.
- 9. GROUT SHALL BE FIVE STAR EPOXY GROUT BY US GROUT CORP., OR EQUAL.

F - CONCRETE REINFORCING:

- 1. ALL CONCRETE REINFORCING TO COMPLY WITH LATEST EDITION OF CRSI.
- 2. CONCRETE REINFORCING TO BE NEW BILLET STEEL, GRADE 60.
- 3. WELDED WIRE FABRIC TO BE AS PER ASTM-A185.
- 4. REINFORCING STEEL CLEAR COVER TO BE AS FOLLOWS:
 - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
 - FORMED CONCRETE SURFACES IN CONTACT WITH SOIL, WATER 2"
 - SLAB ON GRADE - TOP 3/4"
 - TIES IN CONCRETE PIERS 1-1/2"
- 5. CONDUITS RUN IN FLOOR SLAB-ON-GRADE TO BE CENTERED IN SLAB AND COVERED WITH 6X6-W2.9XW2.9 WELDED WIRE FABRIC.
- 6. 4" OR 6" THICK CONCRETE WALKS AND SLABS-ON-GRADE TO BE REINFORCED WITH 6X6-W2.9XW2.9 WELDED WIRE FABRIC.

G - MISCELLANEOUS:

- 1. FIELD VERIFY ALL EXISTING DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
- 2. G.C. SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER IF THE ACTUAL FIELD CONDITIONS DIFFER FROM THE EXISTING CONDITIONS INDICATED ON THE STRUCTURAL DRAWINGS.
- 3. VERIFY ALL NEW DIMENSIONS AND ELEVATIONS WITH EXISTING CONDITIONS AND THE ARCHITECT.
- 4. NO MATERIAL SHALL BE FABRICATED UNTIL SHOP DRAWINGS ARE APPROVED. SHOP DRAWINGS SHALL BE SAME SIZE AND CLARITY AS CONTRACT DRAWINGS, AND SHALL BE COORDINATED WITH OTHER RELATED SHOP DRAWINGS.
- 5. NO PERMISSION WILL BE GRANTED FOR ANY STRUCTURAL DRAWINGS TO BE REPRODUCED FOR USE AS SHOP DRAWINGS.
- 6. A MINIMUM OF FOUR HARD COPIES ARE REQUIRED FOR EACH SHOP DRAWING SUBMITTAL (ALL MATERIALS).
- 7. G.C. SHALL COORDINATE THE WORK OF ALL TRADES TO PROVIDE FUNCTIONAL AND DIMENSIONAL COMPATIBILITY BETWEEN ALL COMPONENTS.
- 8. G.C. SHALL SUBMIT TEMPORARY SHORING SUBMITTAL TO THE STRUCTURAL ENGINEER-OF-RECORD FOR REVIEW. SUBMITTAL SHALL INCLUDE DESIGN CALCULATIONS AND SHOP DRAWINGS, AND MUST BE STAMPED AND SIGNED BY A MASSACHUSETTS LICENSED STRUCTURAL ENGINEER PRIOR TO SUBMISSION.
- 9. G.C. TO RELOCATE ALL EXISTING CONDUITS, DUCTS, PIPES, ETC. AS REQUIRED TO PERFORM THE WORK INDICATED (NOT SHOWN FOR CLARITY).

DRAWING TITLE

TYPICAL ABBREVIATIONS
& GENERAL NOTES

JOB NUMBER: 1864
JOB TITLE

ROOF REPLACEMENT & REPAIRS
76 E. WORCESTER ST.
WORCESTER DPW

CONSULTANT

JSE

Johnson Structural Engineering, Inc.

101 Hutton Memorial Highway (Rt. 56)
Rochdale, Massachusetts 01542
phone: (508) 892-4884 fax: (508) 892-0477

ARCHITECT

HAULT ARCHITECTS, INC.
71 RUPE AVENUE TEL: (508) 798-6134
WORCESTER, MA 01603 FAX: (508) 798-6851

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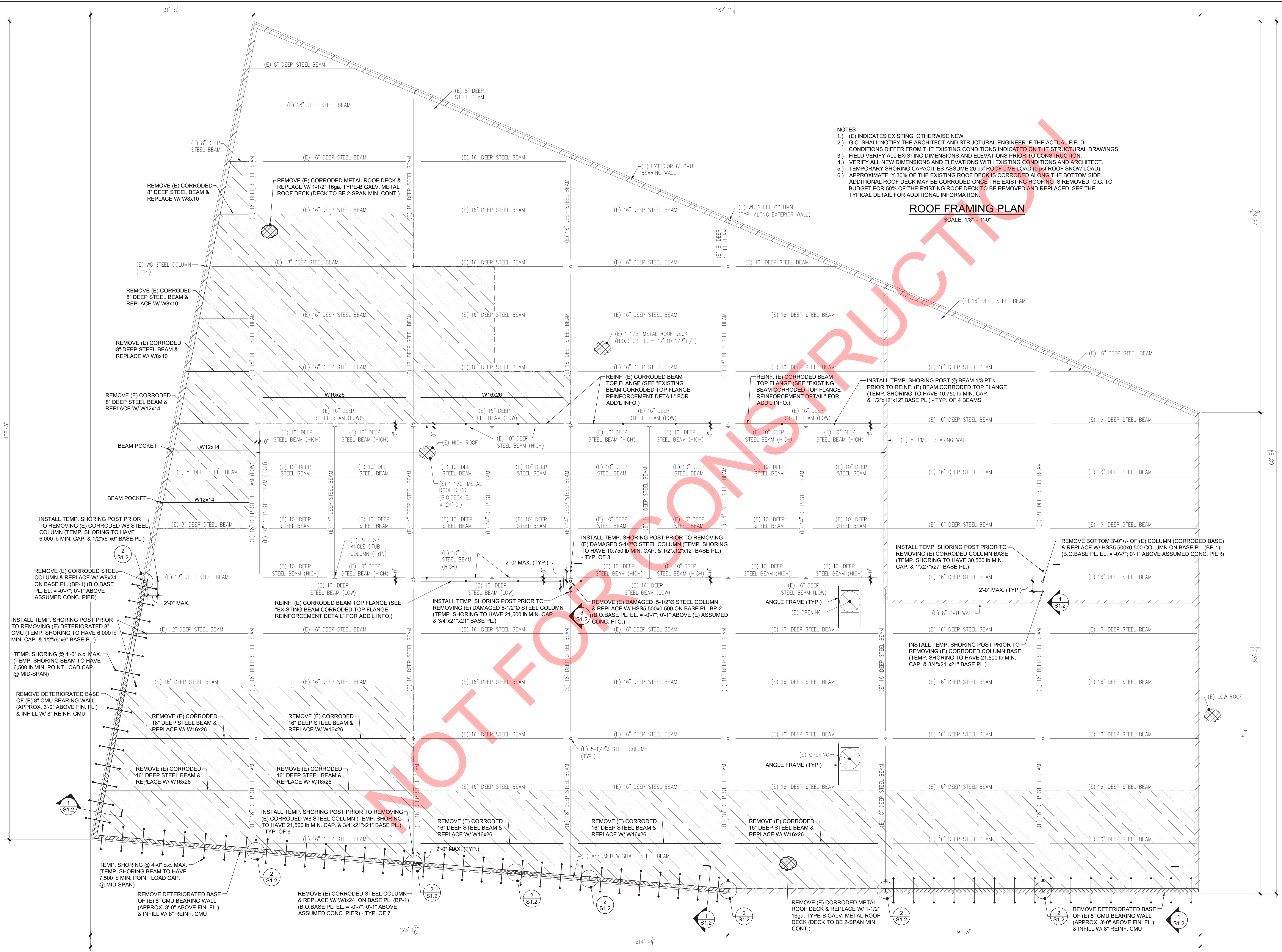
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SCALE

AS NOTED

DATE

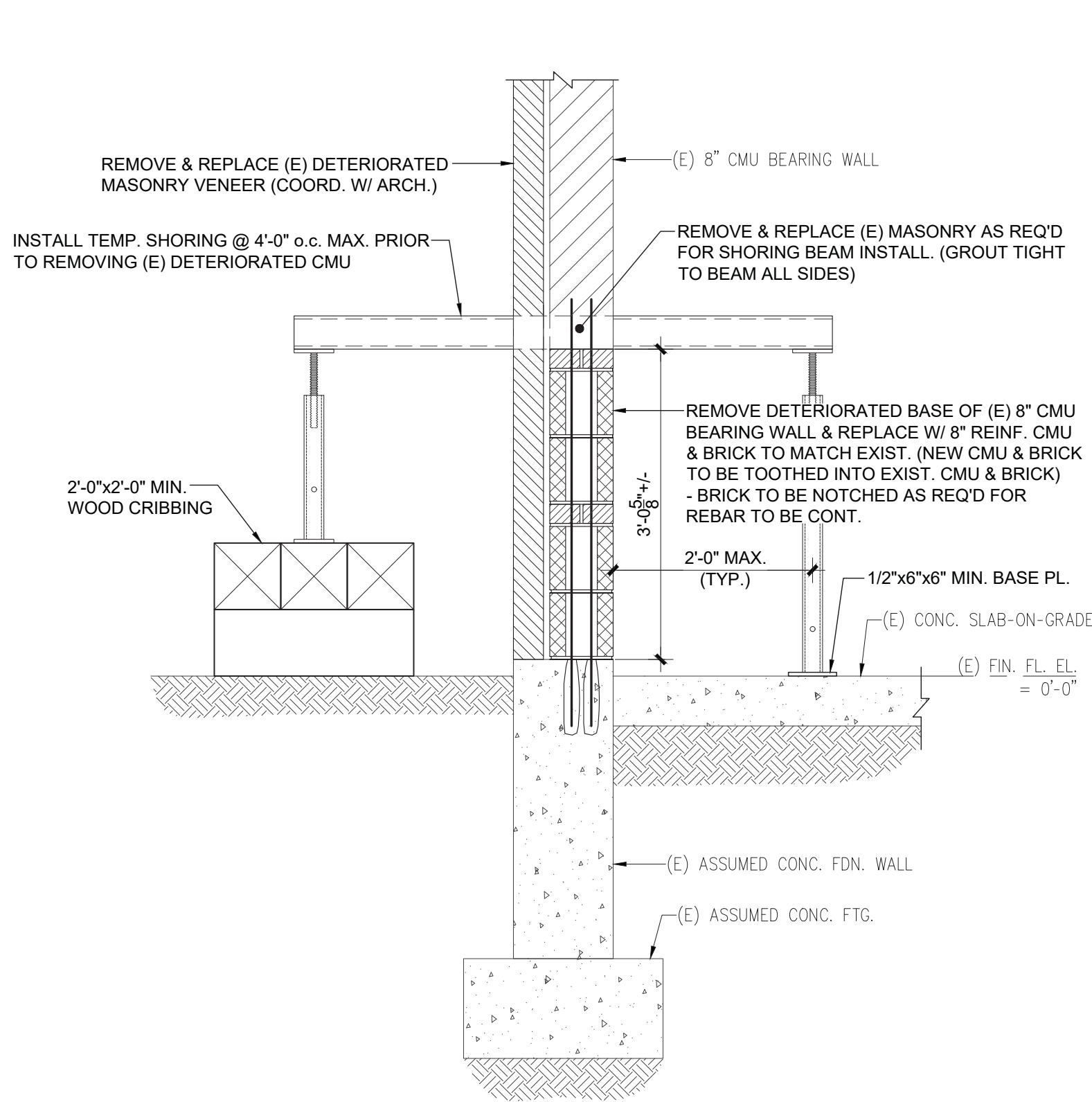
AUGUST 2026



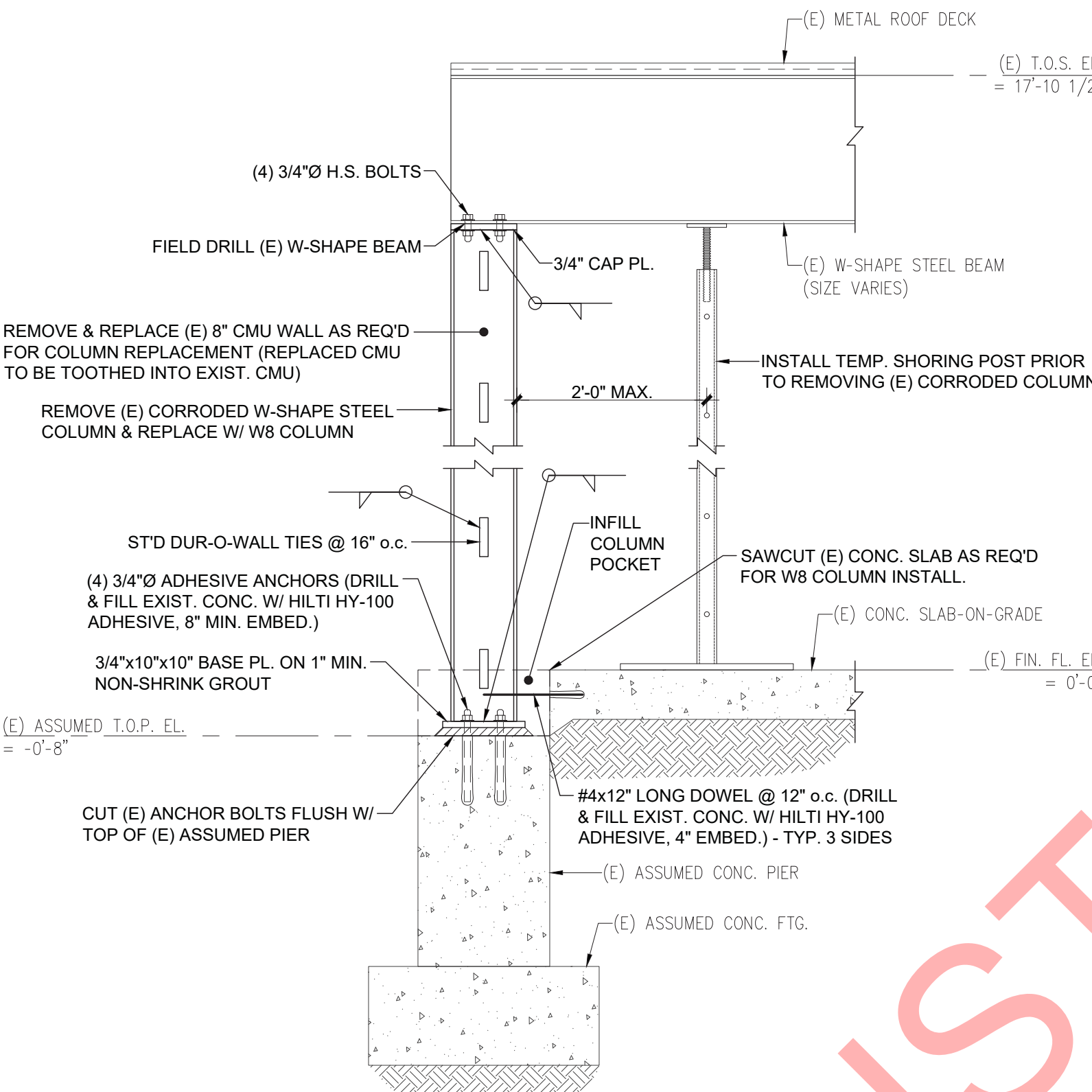
- NOTES:
- 1.) (E) INDICATES EXISTING, OTHERWISE NEW.
 - 2.) G.C. SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER IF THE ACTUAL FIELD CONDITIONS DIFFER FROM THE EXISTING CONDITIONS INDICATED ON THE STRUCTURAL DRAWINGS.
 - 3.) FIELD VERIFY ALL EXISTING DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
 - 4.) VERIFY ALL NEW DIMENSIONS AND ELEVATIONS WITH EXISTING CONDITIONS AND ARCHITECT.
 - 5.) TEMPORARY SHORING CAPACITIES ASSUME 20 psf ROOF LIVE LOAD (0 psf ROOF SNOW LOAD).
 - 6.) APPROXIMATELY 30% OF THE EXISTING ROOF DECK IS CORRODED ALONG THE BOTTOM SIDE. ADDITIONAL ROOF DECK MAY BE CORRODED ONCE THE EXISTING ROOFING IS REMOVED. G.C. TO BUDGET FOR 50% OF THE EXISTING ROOF DECK TO BE REMOVED AND REPLACED. SEE THE TYPICAL DETAIL FOR ADDITIONAL INFORMATION.

ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

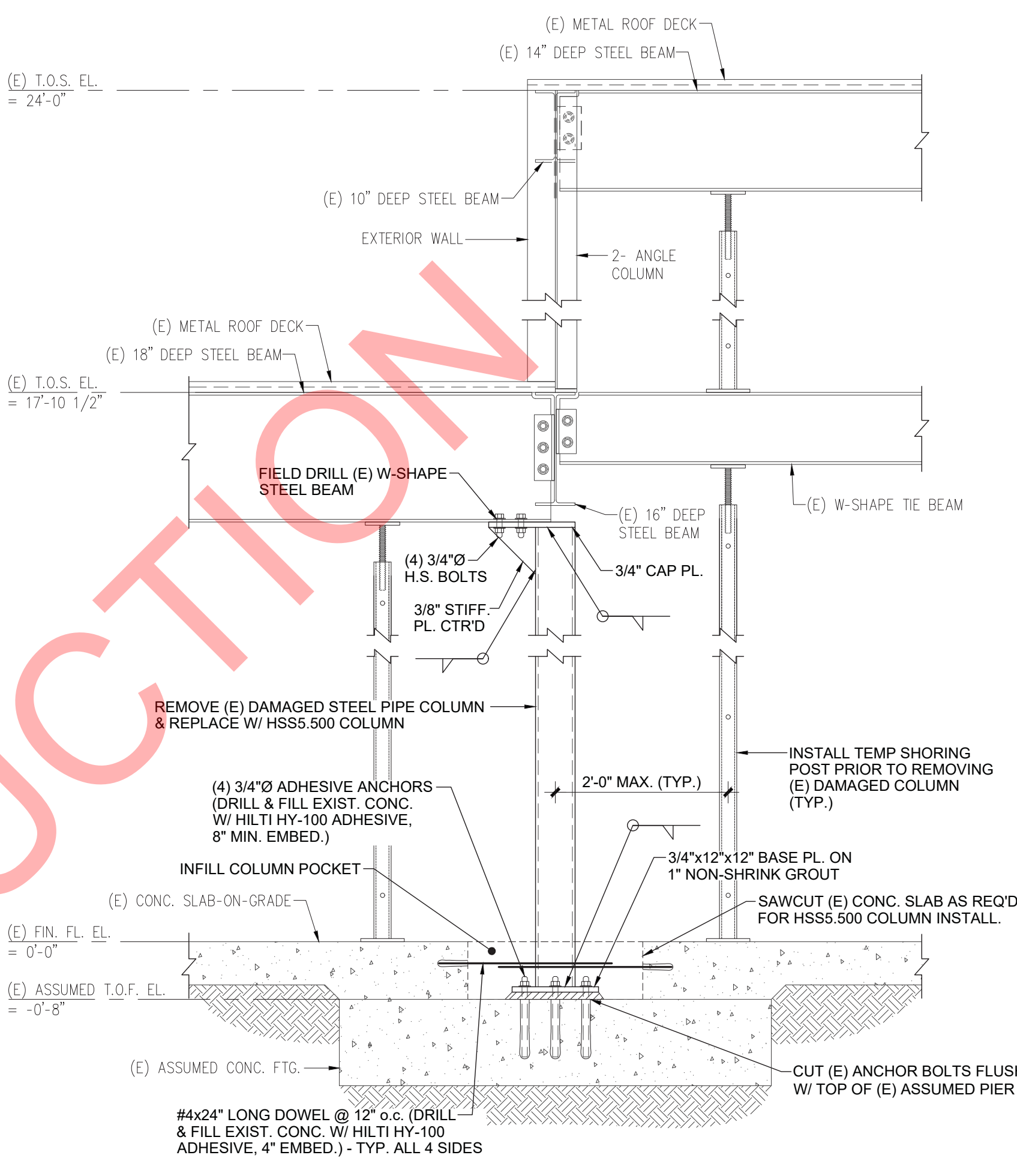
DRAWING TITLE	
ROOF FRAMING PLAN	
JOB NUMBER: 1864	
JOB TITLE	
ROOF REPLACEMENT & REPAIRS 76 E. WORCESTER ST. WORCESTER, MA 01603	
CONSULTANT	
JSE Johnson Structural Engineering, Inc. 101 Hutton Memorial Highway (Rt. 56) Rochdale, Massachusetts 01542 phone: (508) 892-4884 fax: (508) 892-0477	
ARCHITECT	
NAULT ARCHITECTS, INC. 171 RUPE AVENUE WORCESTER, MA 01603 TEL: (508) 798-6134 FAX: (508) 798-6851	
DRAWING NO.	
S1.1	
SCALE	DATE
AS NOTED	AUGUST 2026



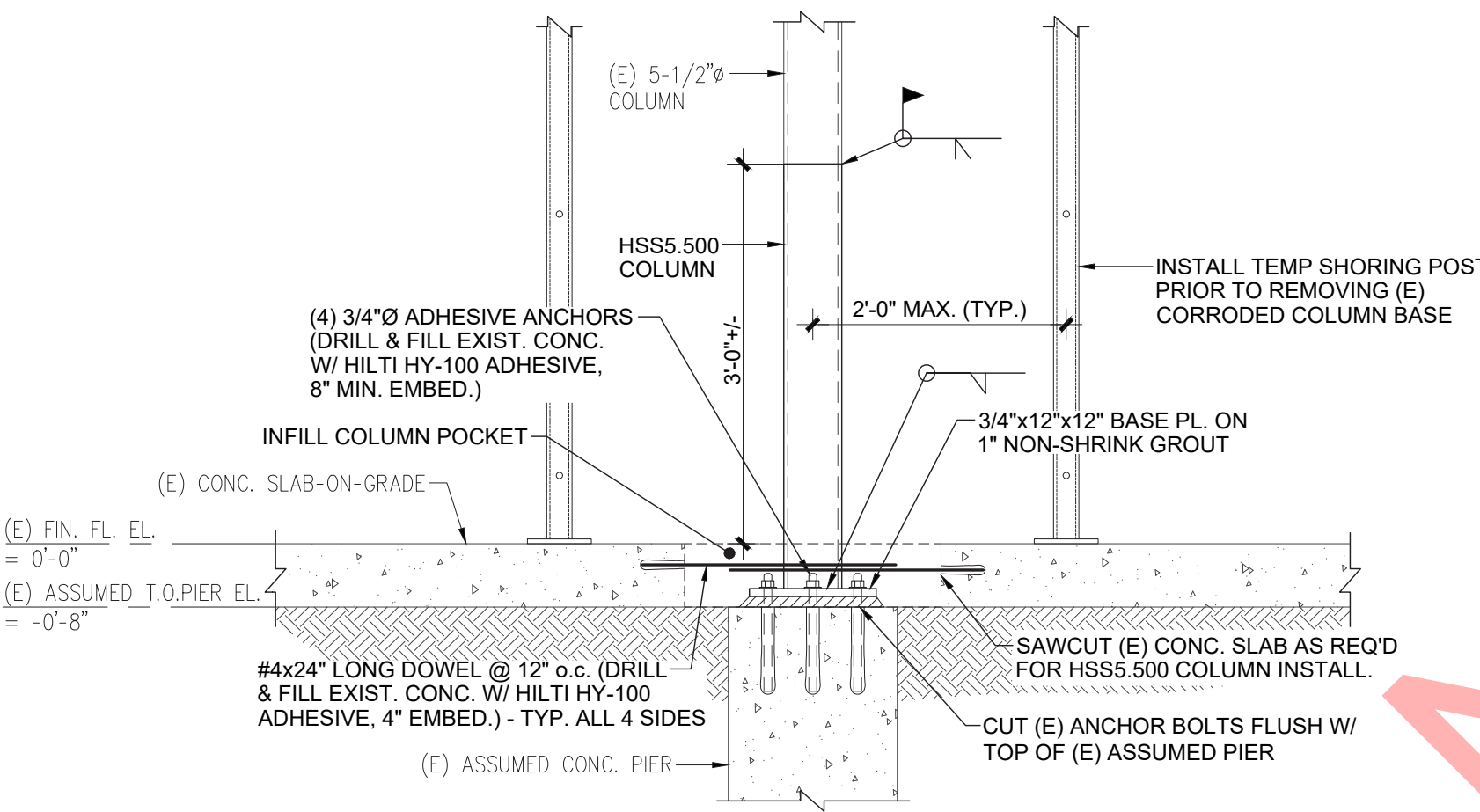
SECTION 1
SCALE: 3/4" = 1'-0"



SECTION 2
SCALE: 3/4" = 1'-0"



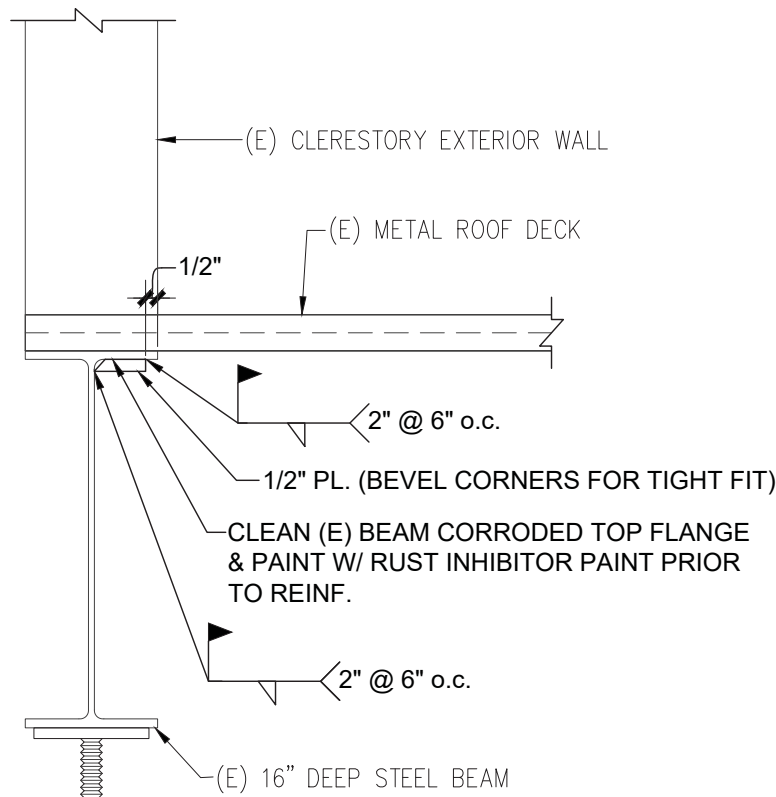
SECTION 3
SCALE: 3/4" = 1'-0"



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

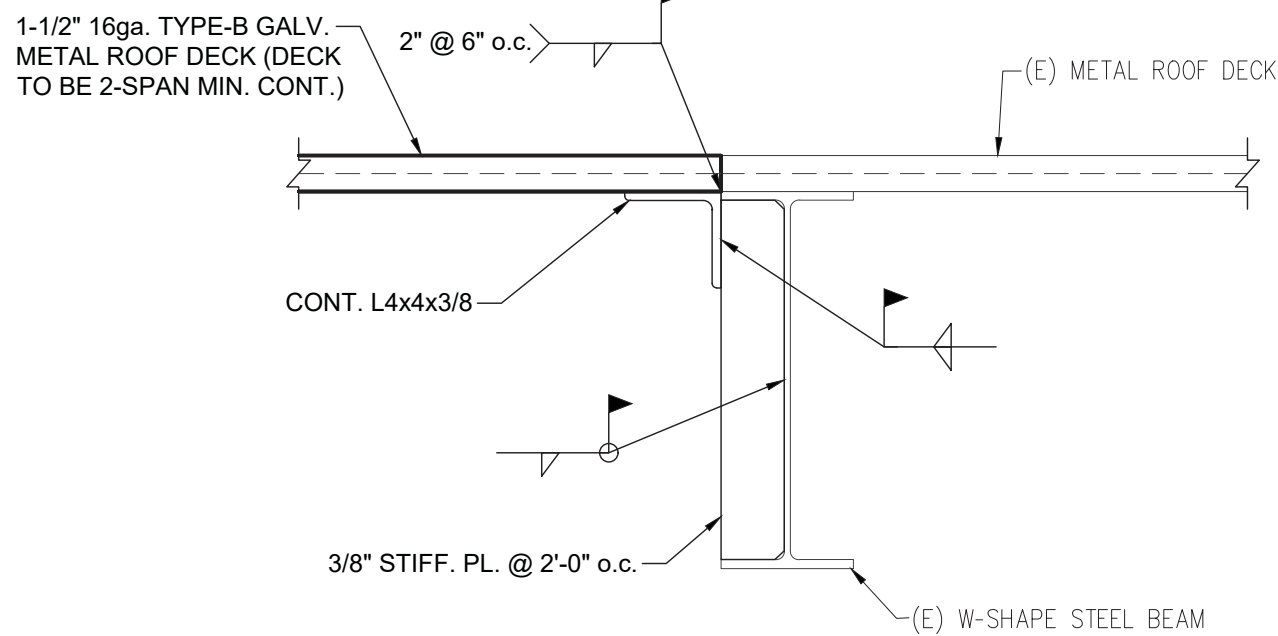
- NOTES:
- 1.) G.C. TO EXPOSE EXISTING ASSUMED CONCRETE PIER FOR THE STRUCTURAL ENGINEER TO DOCUMENT PRIOR TO FABRICATION
 - 2.) G.C. SHALL CLEAN THE CORRODED BASE OF THE STEEL COLUMN FOR THE ARCHITECT AND STRUCTURAL ENGINEER TO INSPECT PRIOR TO ORDERING MATERIALS AND FABRICATING THE NEW COLUMN BASE. IF THE STRUCTURAL ENGINEER DEEMS THAT THE EXISTING COLUMN BASE IS STRUCTURALLY SOUND, THEN A CREDIT SHALL BE PROVIDED TO THE OWNER.

DRAWING TITLE	
SECTIONS	
JOB NUMBER: 1864 JOB TITLE ROOF REPLACEMENT & REPAIRS 76 E. WORCESTER ST. WORCESTER DPW	
CONSULTANT JSE Johnson Structural Engineering, Inc. 101 Huntoon Memorial Highway (Rt. 56) Rochdale, Massachusetts 01542 phone: (508) 892-4884 fax: (508) 892-0477	
ARCHITECT NAULT ARCHITECTS, INC. 71 HOPE AVENUE TEL: (508) 758-6134 WORCESTER, MA 01603 FAX: (508) 758-4881	
SCALE AS NOTED	DRAWING NO. S1.2 DATE AUGUST 2026



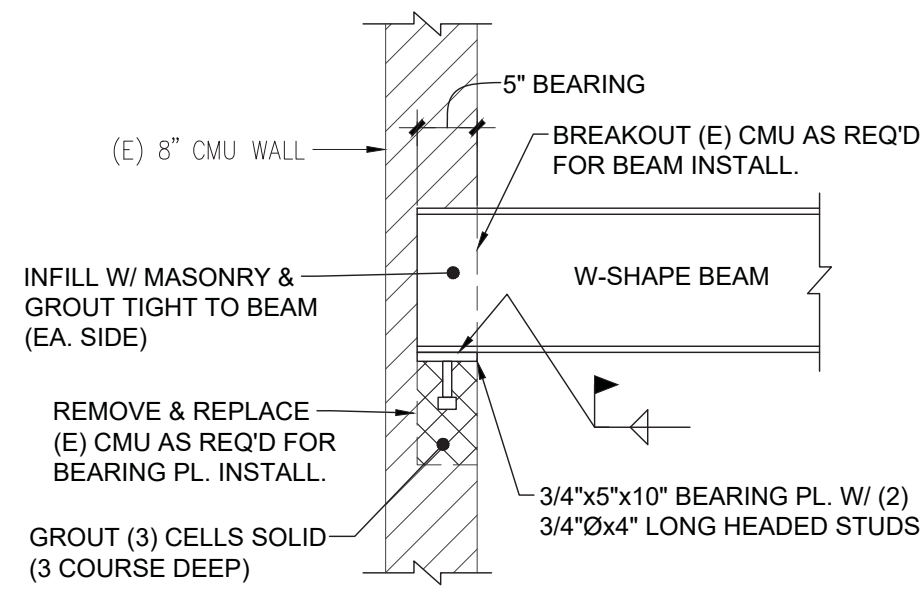
EXISTING BEAM CORRODED TOP FLANGE
REINFORCEMENT DETAIL

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



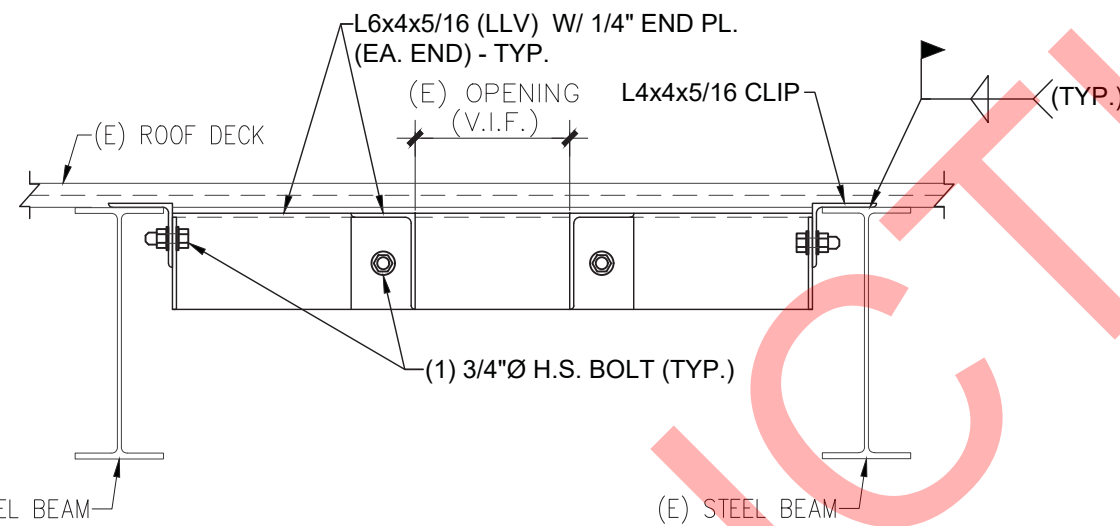
CORRODED METAL ROOF DECK
REPLACEMENT DETAIL

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



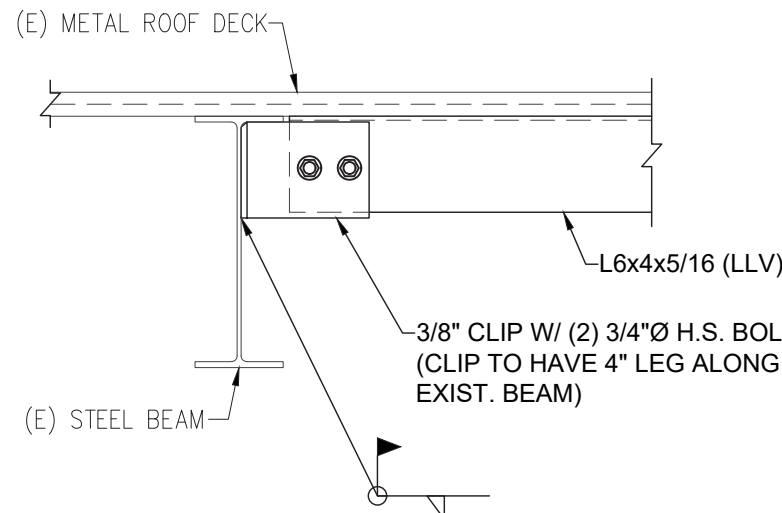
TYPICAL W-SHAPE BEARING DETAIL

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



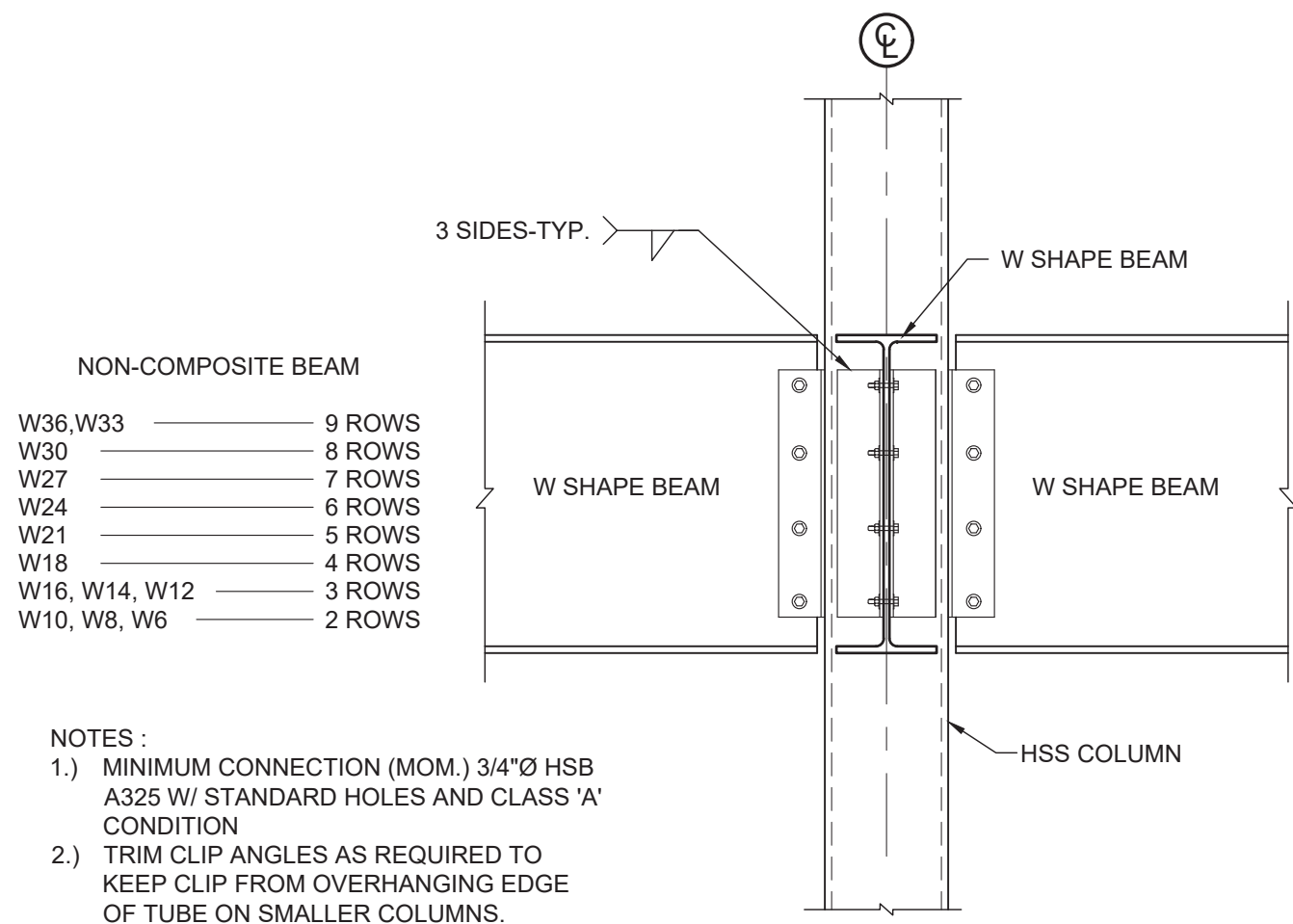
TYPICAL ROOF FRAME OPENING DETAIL

SCALE: 1" = 1'-0"



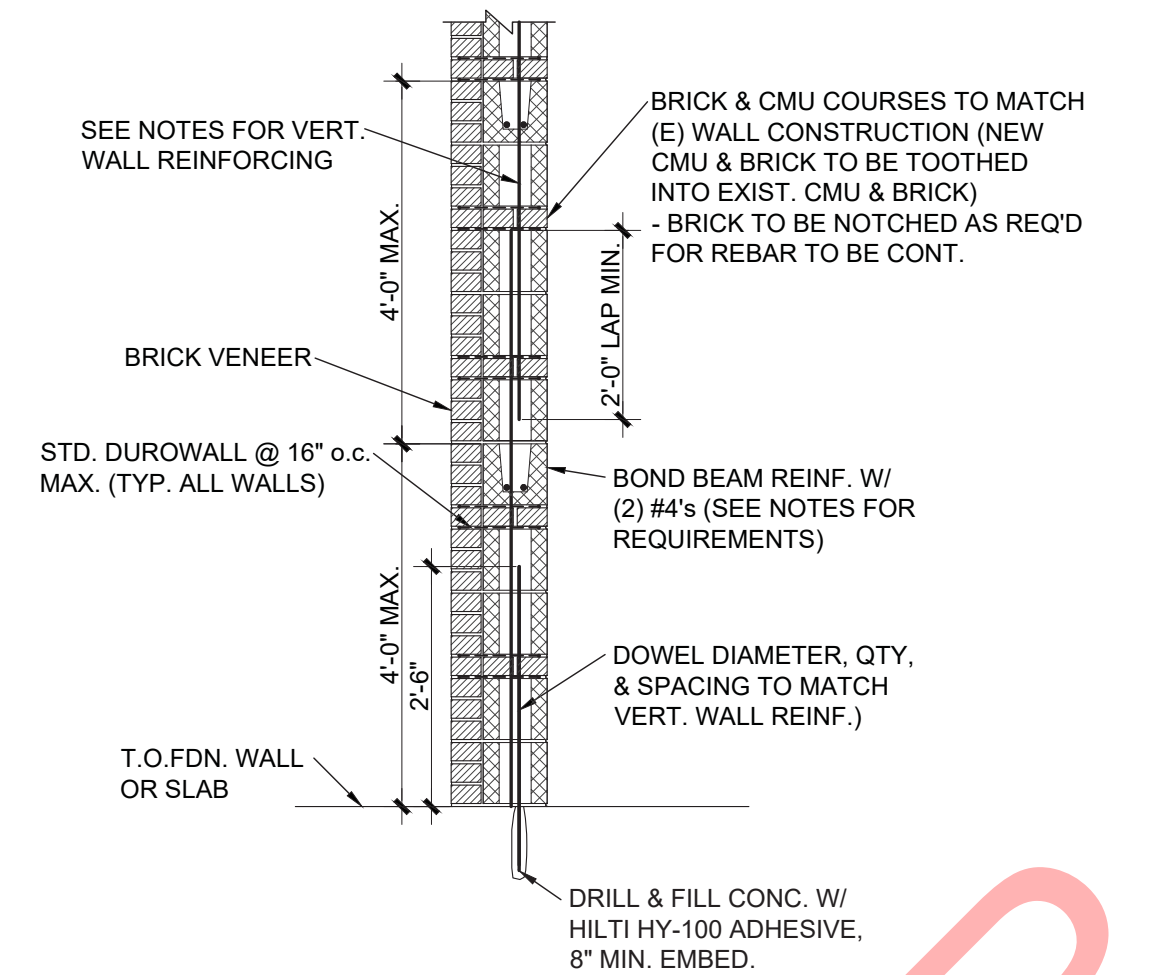
ALTERNATE ANGLE FRAME
CONNECTION DETAIL

SCALE: 1" = 1'-0"



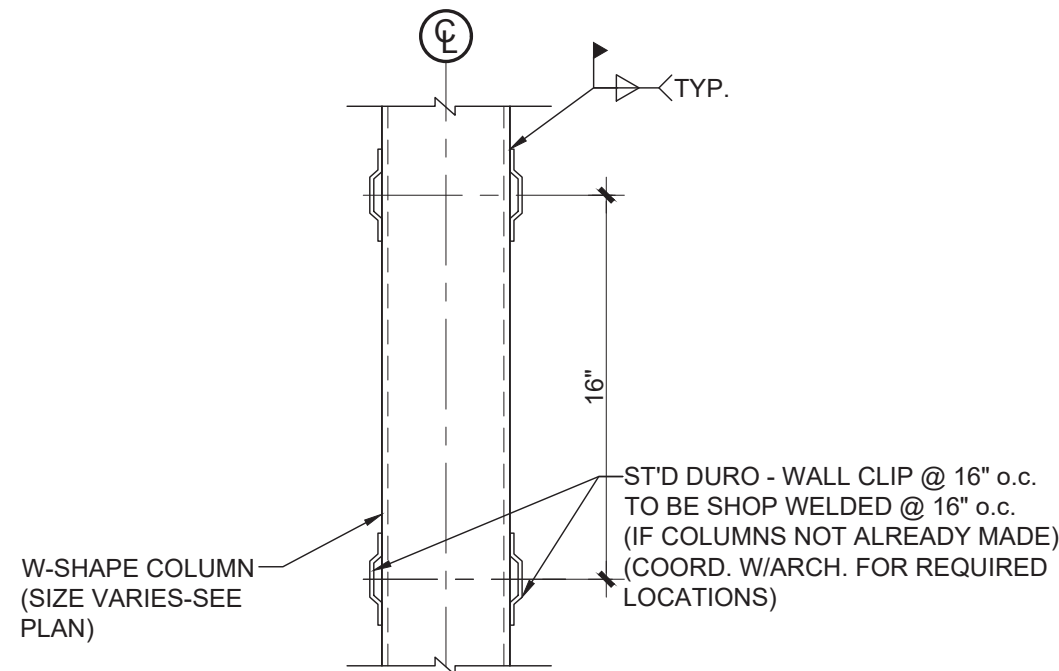
TYPICAL MINIMUM BOLTS REQ'D. FOR
NON-MOMENT CONN. BEAM TO COLUMN
OR BEAM TO BEAM CONNECTIONS DETAIL

SCALE: 1" = 1'-0"



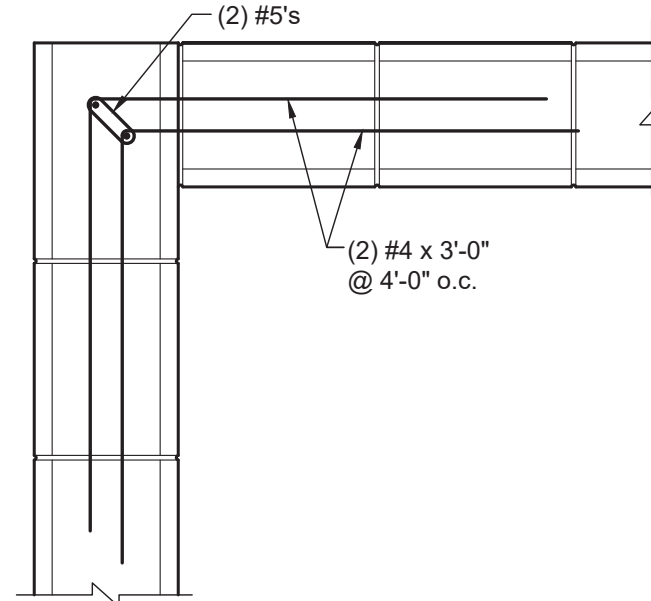
TYPICAL 8" CMU WALL
REINFORCING DETAIL

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



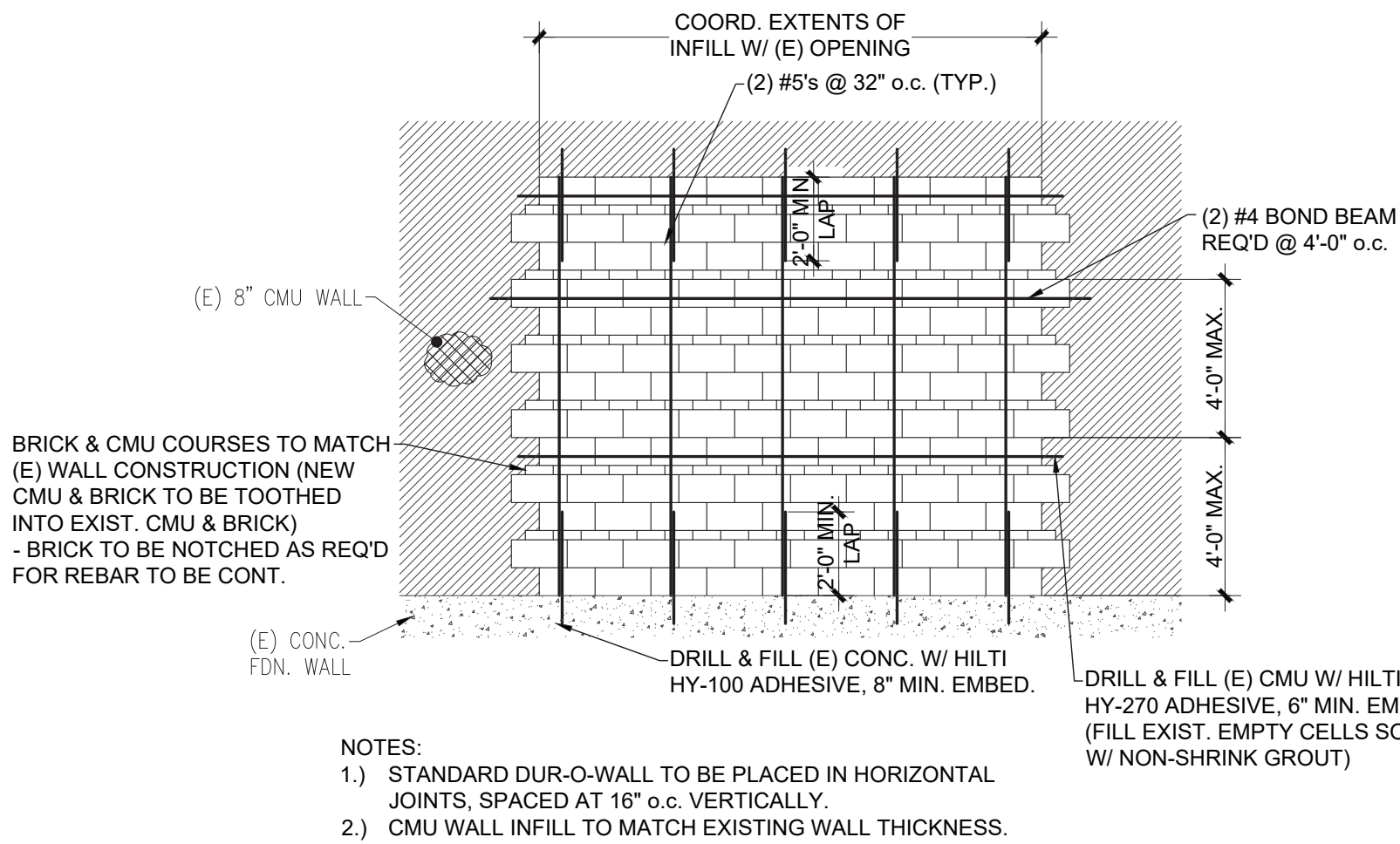
TYPICAL DURO - WALL ELEVATION DETAIL

SCALE 3/4" = 1'-0"



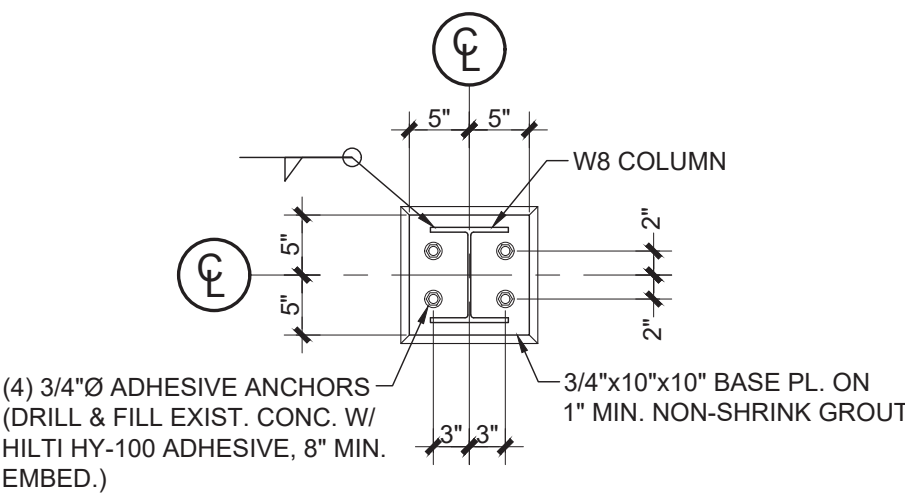
TYPICAL CMU CORNER DETAIL

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



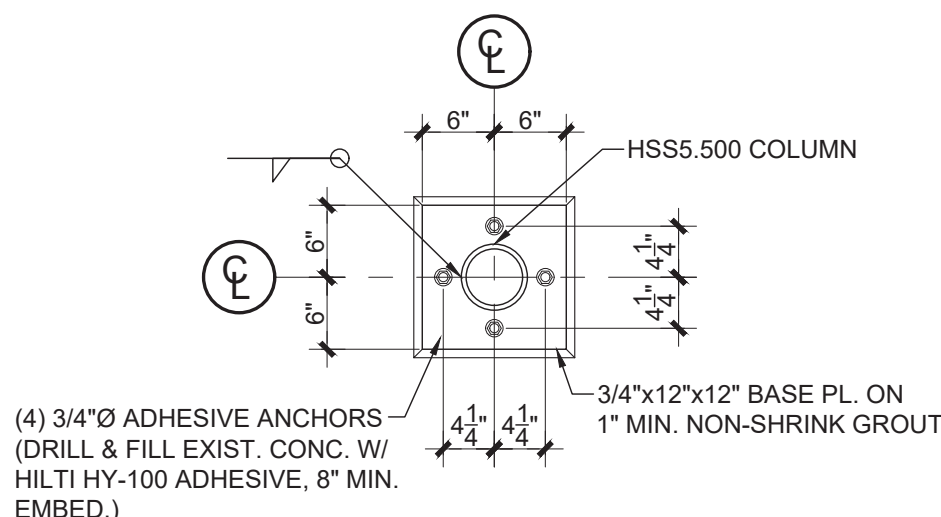
TYPICAL EXISTING MASONRY WALL
OPENING INFILL DETAIL

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



BASE PLATE DETAIL (BP-1)

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



BASE PLATE DETAIL (BP-2)

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

DRAWING TITLE

TYPICAL DETAILS

JOB NUMBER: 1864
JOB TITLE

ROOF REPLACEMENT & REPAIRS
76 E. WORCESTER ST.
WORCESTER, MA 01605

CONSULTANT

JSE

Johnson Structural Engineering, Inc.

101 HUNTON MEMORIAL HIGHWAY (RT. 56)
ROCHESTER, MASSACHUSETTS 01542
PHONE: (508) 852-4884 FAX: (508) 852-0477

ARCHITECT

HAULT ARCHITECTS, INC.
71 HOPE AVENUE TEL: (508) 755-6134
WORCESTER, MA 01605 FAX: (508) 754-4861

SCALE

AS NOTED

DRAWING NO.

S1.3

DATE

AUGUST 2026