



ADDENDUM NO. 5
POTTAWATTAMIE COUNTY, IOWA
COURTHOUSE – Chiller Improvements
Council Bluffs, Iowa

HGM PROJECT # 107419D

DATE OF ISSUE: November 8, 2019

DATE OF BID OPENING: Tuesday, November 12, 2019 @ 2:00 p.m.
(Date and time changed by Addendum #4)

NOTE TO PLANHOLDERS: Please insert this addendum into your copy of the Project Contract Documents. The following additions or changes to the Contract Documents for the above-named project are issued by the Architect and have the same force and effect as though part of the original issued.

CHANGES TO ADDENDUM NO. 2

Refer to AD2-2, lines 10-11, in reference to DRAWINGS – MECHANICAL for SHEET M1.6 and attachments M1 and M2. Delete these lines and attachments in their entirety.

Refer to AD2-2, lines 22-23, in reference to CHANGES TO ELECTRICAL DRAWINGS for SHEET E2.6. Delete these lines in their entirety.

CHANGES TO ADDENDUM NO. 4

Refer to AD4-1, lines 28-44, in reference to CHANGES TO DRAWINGS for SHEETS S1.1 and S5.1. Delete these lines in their entirety.

CHANGES TO PROJECT MANUAL

TABLE OF CONTENTS

Add the following to Division 01 – GENERAL REQUIREMENTS:

01 23 00 Alternates 01 23 00-1 to 2

BID PROPOSAL

Delete Bid Proposal in its entirety. Replace with REVISED BID PROPOSAL, attached. Changes include an added alternate.

01 23 00 – ALTERNATES

Add this section in its entirety. See attached.

CHANGES TO DRAWINGS

SHEET A1.1 – ROOF PLAN

Strike and remove “Note 2: Install redundant layer of roofing membrane at location of concrete mechanical equipment base supports. Extend 6” beyond all sides. Set in bed of splice adhesive.” This note is no longer needed.

SHEET A1.2 – FIFTH FLOOR PLAN

New Fire Proofing at new steel removed from project. See attachments SD22 and SD 23.

SHEET S1.1 – ROOF FRAMING PLAN

Delete all new construction and notes as shown and substitute attached SD2 and SD21.

SHEET S5.1 – DETAILS

Flashing Details added at new mechanical unit structural framing supports. See attachments SD24 and SD25.

Delete Details 5, 10, and 19 in their entirety, and substitute the following attached Supplemental Drawings: SD3, SD4, SD5, SD6, SD7, SD8, SD9, SD10, SD11, SD12, SD13, SD14, SD15, SD16, SD17, SD18, SD19, SD20.

MECHANICAL ITEMS

GENERAL ITEMS – MECHANICAL

Deductive Alternate: Contractor shall provide deductive alternate pricing to provide glass fiber insulation with vapor barrier and PVC jacket on chilled water piping.

SPECIFICATIONS – MECHANICAL

SECTION 22 07 19 – PLUMBING PIPING INSULATION

Reference to “canvas jacket” on page 5 in line 2 shall be changed to “PVC jacket.”

SECTION 23 07 19 – HVAC PIPING INSULATION

Reference to “canvas jacket” on page 5 in line 8 shall be changed to “PVC jacket.”

DRAWINGS – MECHANICAL

SHEET M1.6 – ROOF MECHANICAL PLAN

Revised chiller locations and pipe routing. Refer to sketch M1.

ELECTRICAL ITEMS

DRAWINGS – ELECTRICAL

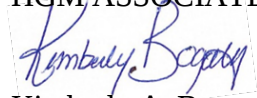
SHEET E2.6 – ELECTRICAL ROOF PLAN

Coordinate electrical connections with new chiller locations. Refer to sketch E1.

1 If a substitute material, product or manufacturer has been requested to be allowed, it will appear in
2 an addendum only if approved. If not in the addenda, the alternate method, product or
3 manufacturer is not approved.

4
5 All other stipulations and requirements of the plans and specifications remain in effect. This
6 addendum shall be attached to and made part of the Contract Documents and shall be
7 acknowledged with the bidders proposal.

8
9 Respectfully Submitted:
10 HGM ASSOCIATES INC.

11 

12
13 Kimberly A. Bogatz, AIA LEED AP BD+C
14 Project Manager

15
16 Attachments: REVISED BID PROPOSAL
17 Spec Section 01 23 00 – ALTERNATES
18 SD2-SD25
19 M1
20 E1

REVISED BID PROPOSAL – ADDENDUM #3

TO: **Jason Slack**
Pottawattamie County Board of Supervisors
Council Bluffs, Iowa

PROJECT: Pottawattamie County Courthouse Chiller Improvements

I, or we, the Undersigned hereby propose to complete the above work, furnishing all materials, labor and service therefore, and all according to the DRAWINGS and PROJECT MANUAL as prepared by HGM ASSOCIATES INC., 640 5th Avenue, Council Bluffs, IA 51501, dated October 2019, for the sum set forth below, subject to all addenda officially issued by the Architect prior to bidding.

The Undersigned acknowledges that the following Addenda were received and considered in the preparation of this proposal, and their receipt and inclusion as a part of this proposal is hereby acknowledged.

ADDENDA NO.

DATED

The Undersigned agrees, upon receipt of written notice of intent to award the Contract that he will execute, AIA Document 101 "Agreement Between Contractor and Owner" on the standard form issued by the American Institute of Architects in accordance with his bid proposal.

Within 48 hours from when bids are opened the undersigned agrees to submit a list of sub-contractors that they intend to use for the work.

The Undersigned further agrees that if awarded the Contract he can commence work as soon as the Contract is approved and "Written Notice to Proceed" is issued.

Reasonable allowance will be made for delay in progress of work if cause by any act or neglect of the Owner or by any authorized agent of the Owner, by changes ordered in the work, by fire, by unavoidable casualties or causes beyond the Contractor's control

The undersigned agrees that withdrawal of this Bid Proposal, or failure to sign the Agreement or furnish a satisfactory Performance Bond and Payment Bond within time hereinabove set forth shall automatically bar Undersigned from any further consideration and terminate any and all rights Undersigned may have acquired in, by, or through this Bid or Proposal.

No bidder may withdraw their proposal within 60 days after the bid opening.

The earliest completion date is very important to the Owner. The Undersigned agrees that the work can begin immediately and that the project be complete by **May 15, 2020**. If the Contractor shall fail to do so, the Contractor agrees to pay the Owner as liquidated damages and not as a penalty, the sum of **\$500.00** for each and every calendar day that the Contractor is in default of substantial completion of the work under this Contract.

TOTAL LUMP SUM BASE BID:

Dollars
(\$ _____)

(The Bidder shall make no additional stipulations on the bid form nor qualify the Bid in any other manner.)

ALTERNATES

Refer to Section 01 23 00 – ALTERNATES, for expanded description of Alternates.

Alternate No. 1

Deductive Alternate: Provide glass fiber insulation with vapor barrier and PVC jacket on chilled water piping.

Deduct _____ Dollars
(\$ _____)

VOLUNTARY SUBSTITUTIONS

<u>Products</u>	<u>Manufacturer</u>	<u>Adjustment In Bid</u>
_____	_____	add / deduct \$ _____
_____	_____	add / deduct \$ _____
_____	_____	add / deduct \$ _____

IN WITNESS WHEREOF THE Undersigned Bidder has caused (his, her, their) signature to be affixed by a duly authorized (Officer, Partner, Owner), this ____ day of _____, 2019.

FIRM NAME: _____

MAILING ADDRESS: _____

TELEPHONE: _____

BY: _____

(Printed name)

(Title)

SECTION 01 23 00 - ALTERNATES

PART 1 - GENERAL

RELATED DOCUMENTS

Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

SUMMARY

This Section includes administrative and procedural requirements for alternates.

DEFINITIONS

Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the Bidding Requirements that may be added to or deducted from the Base Bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.

The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

PROCEDURES

Coordination: Modify or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.

Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.

Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.

Execute accepted alternates under the same conditions as other work of the Contract.

Schedule: A Schedule of Alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

SCHEDULE OF ALTERNATES

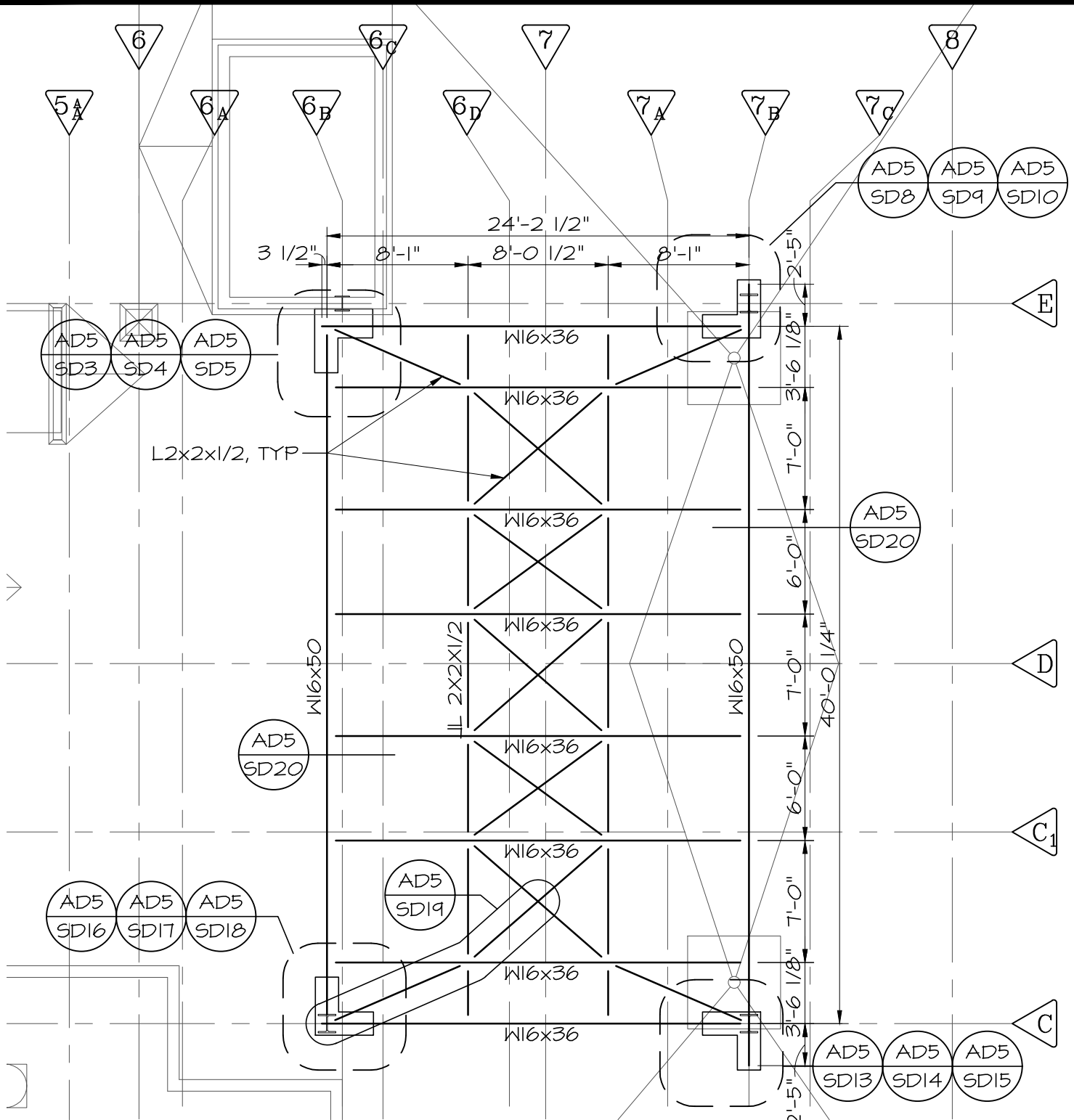
Alternate No. One; Change Insulation to Glass Fiber:

Deductive Alternate: Contractor shall provide deductive alternate pricing to provide glass fiber insulation with vapor barrier and PVC jacket on chilled water piping.

END OF SECTION 01 23 00

ADDENDUM DRAWING

PROJECT: **POTTAWATTAMIE CO COURTHOUSE** PROJECT #: **107419D**
CHILLER IMPROVEMENTS
DATE: **11-08-19**



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



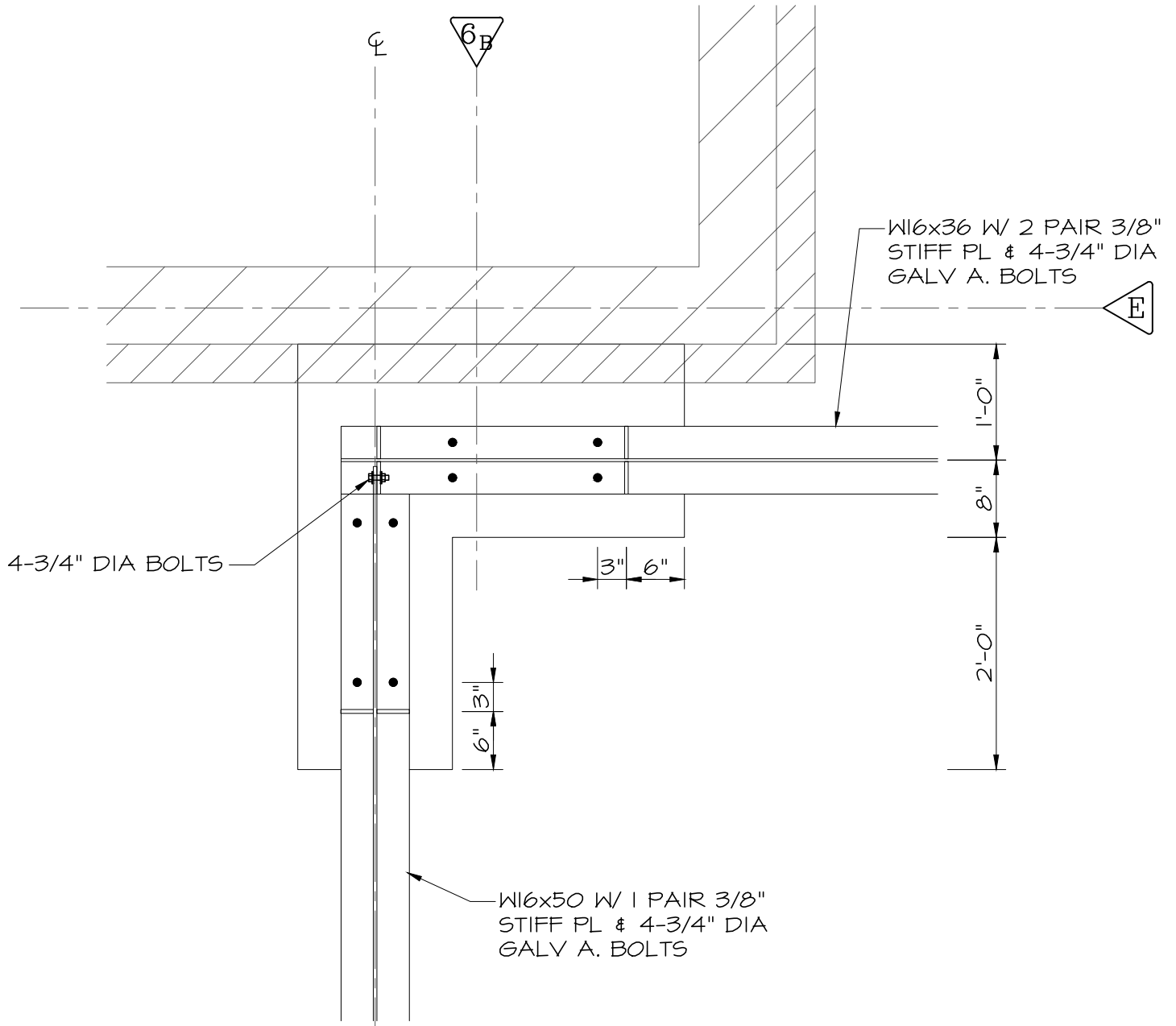
NORTH

ADDENDUM 5
SHEET NO.

SD2

ADDENDUM DRAWING

PROJECT: **POTTAWATTAMIE CO COURTHOUSE** PROJECT # : **107419D**
CHILLER IMPROVEMENTS DATE: **11-08-19**



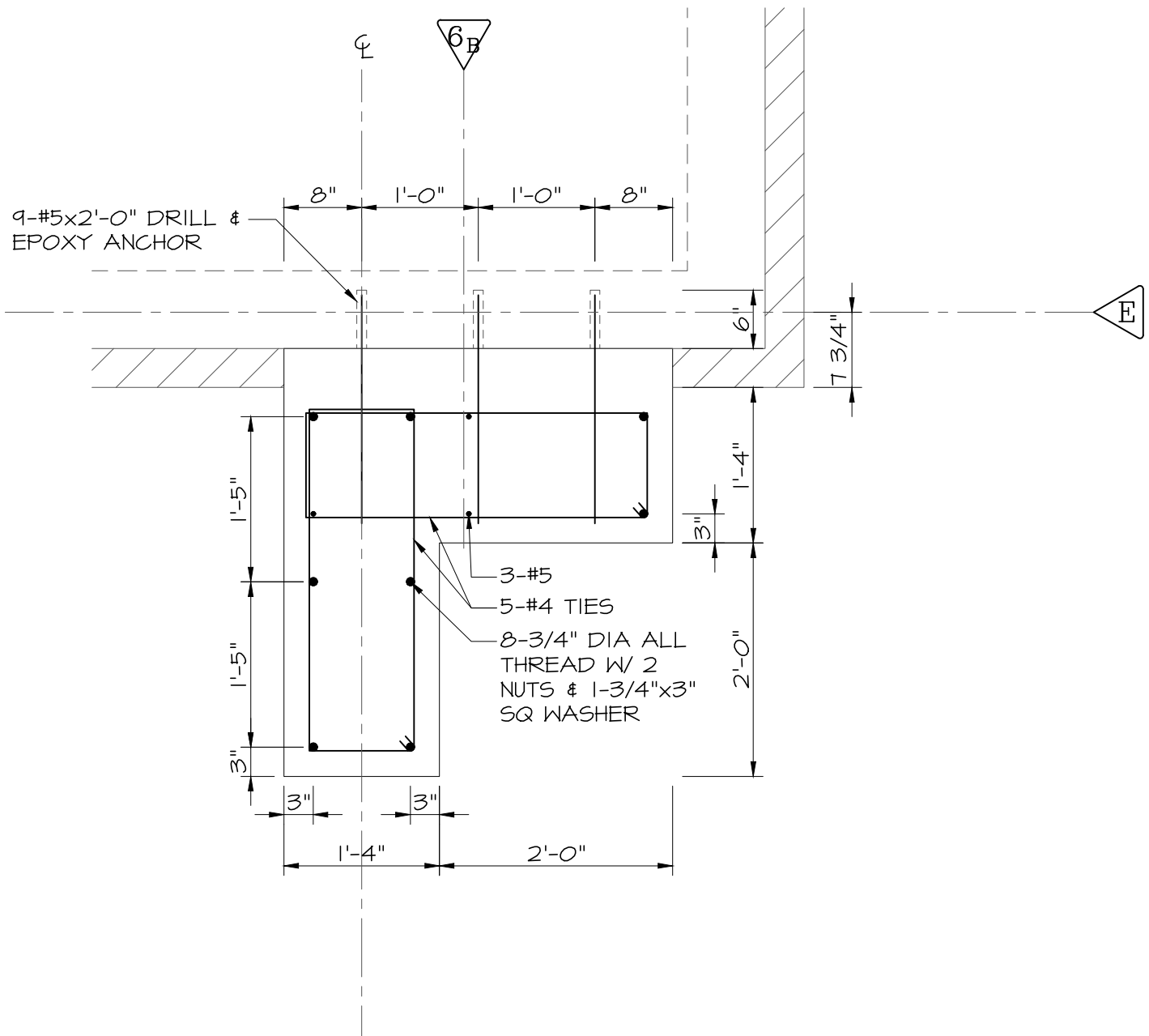
1 DETAIL
SCALE: $\frac{3}{4}'' = 1'-0''$

ADDENDUM 5
SHEET NO.

SD3

ADDENDUM DRAWING

PROJECT: **POTTAWATTAMIE CO COURTHOUSE** PROJECT # : **107419D**
CHILLER IMPROVEMENTS DATE: **11-08-19**



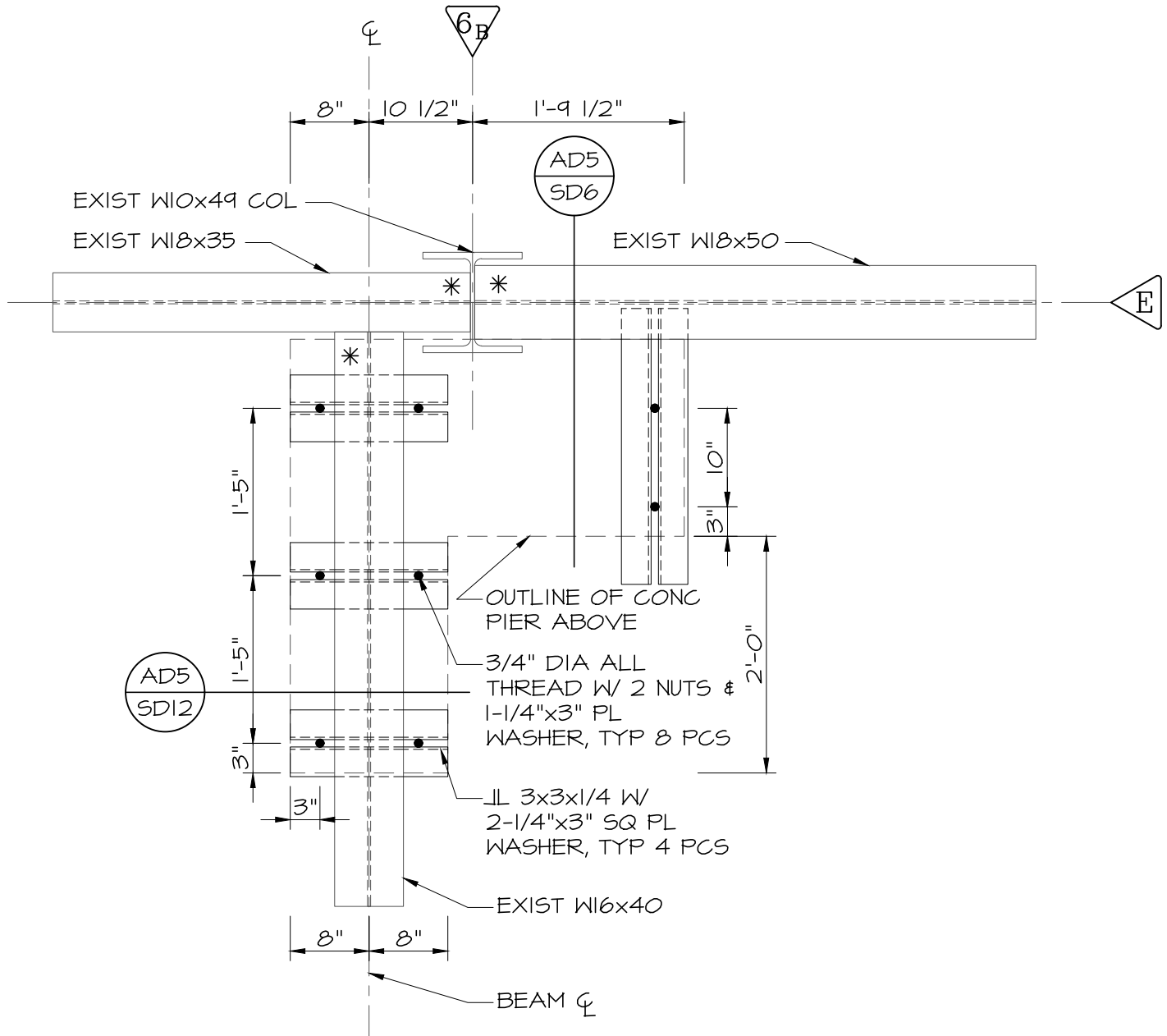
1 **DETAIL**
SCALE: 3/4"=1'-0"

ADDENDUM 5
SHEET NO.

SD4

ADDENDUM DRAWING

PROJECT: **POTTAWATTAMIE CO COURTHOUSE** PROJECT # : **107419D**
CHILLER IMPROVEMENTS DATE: **11-08-19**



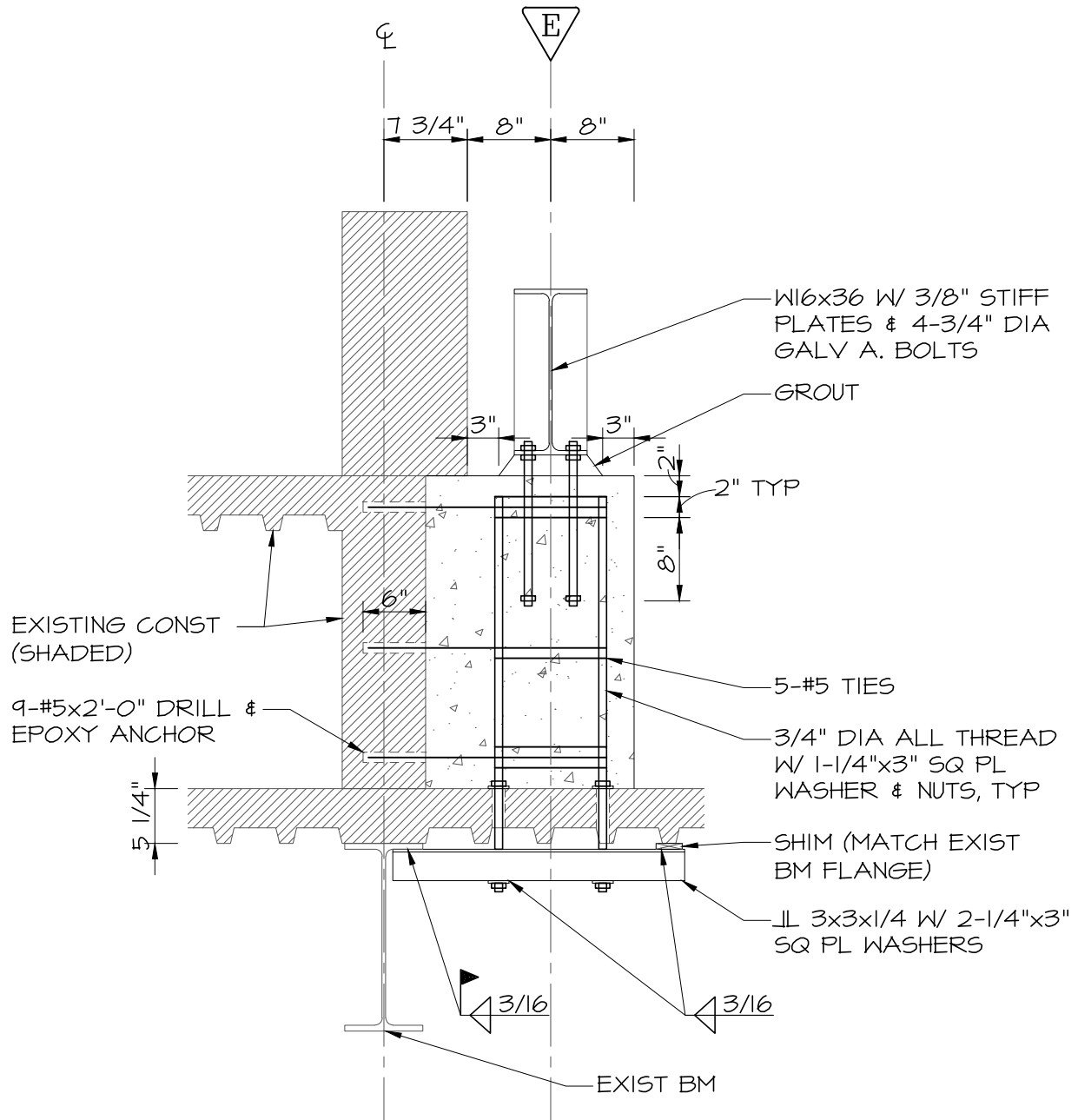
1 **DETAIL**
SCALE: 3/4"=1'-0"

ADDENDUM 5
SHEET NO.

SD5

ADDENDUM DRAWING

PROJECT: **POTTAWATTAMIE CO COURTHOUSE** PROJECT # : **107419D**
CHILLER IMPROVEMENTS
DATE: **11-08-19**



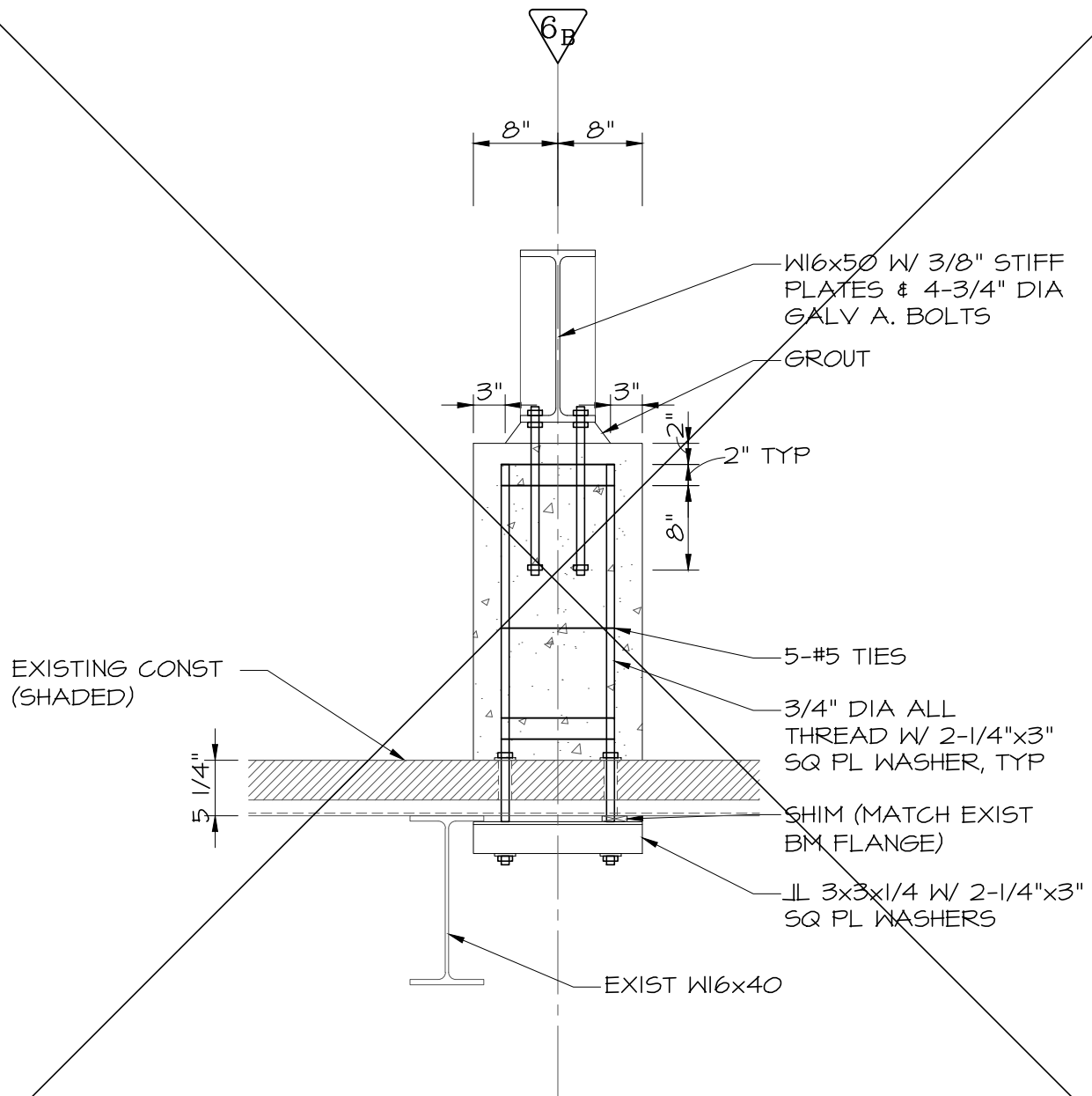
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ADDENDUM 5
SHEET NO.

SD6

ADDENDUM DRAWING

PROJECT: **POTTAWATTAMIE CO COURTHOUSE** PROJECT #: **107419D**
CHILLER IMPROVEMENTS DATE: **11-08-19**



VOID - NOT USED

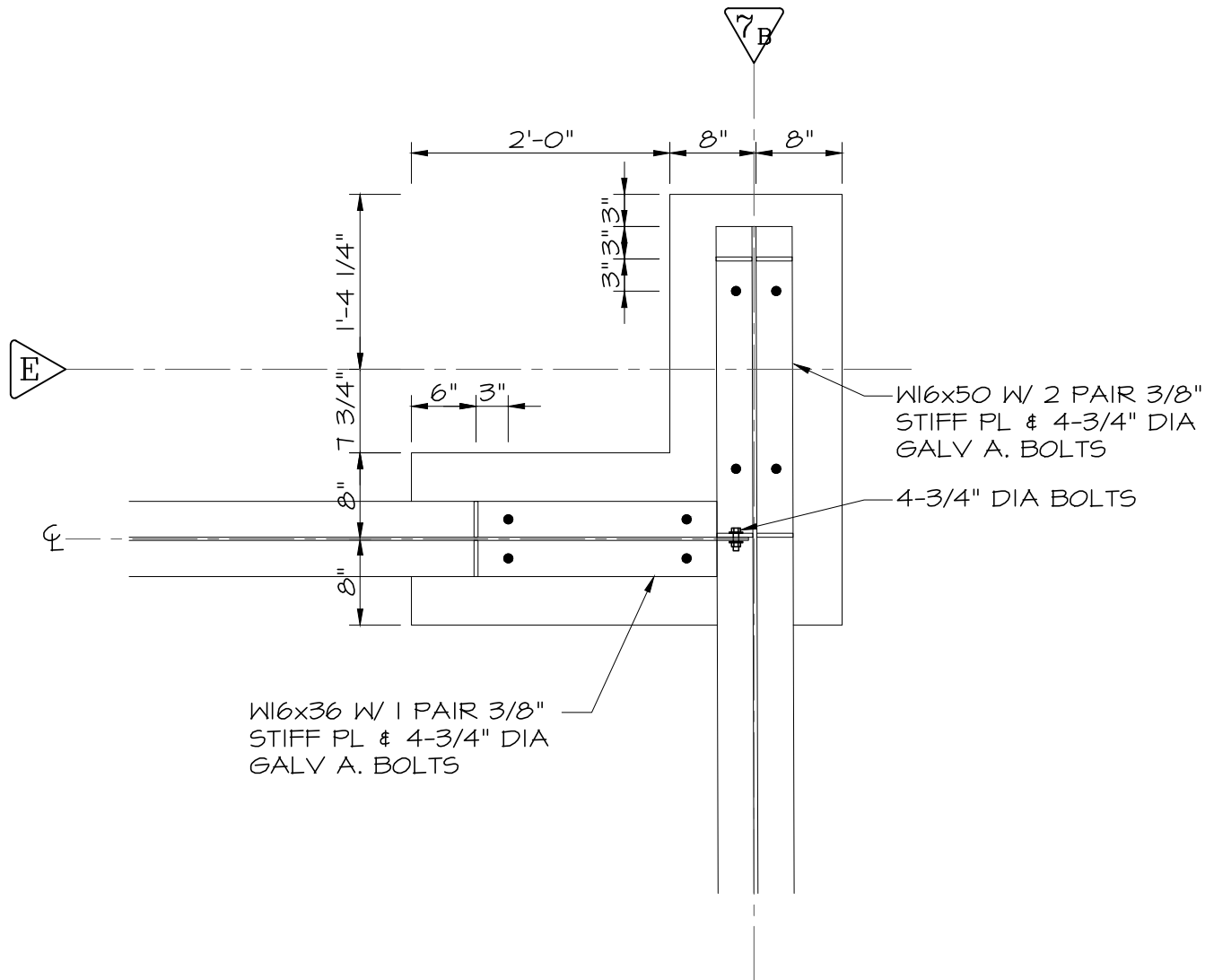
1 **DETAIL**
SCALE: 3/4"=1'-0"

ADDENDUM 5
SHEET NO.

SD7

ADDENDUM DRAWING

PROJECT: **POTTAWATTAMIE CO COURTHOUSE** PROJECT # : **107419D**
CHILLER IMPROVEMENTS DATE: **11-08-19**



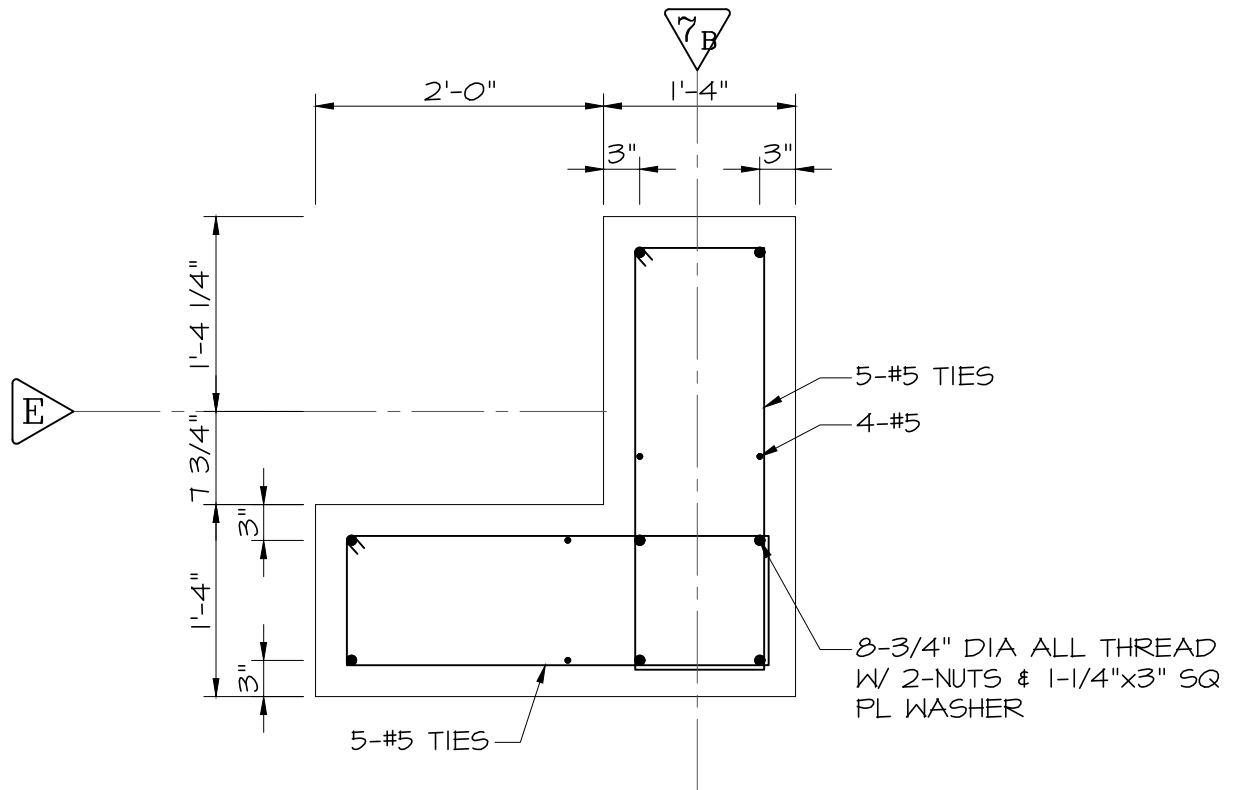
1 DETAIL
SCALE: 3/4"=1'-0"

ADDENDUM 5
SHEET NO.

SD8

ADDENDUM DRAWING

PROJECT: **POTTAWATTAMIE CO COURTHOUSE** PROJECT # : **107419D**
CHILLER IMPROVEMENTS DATE: **11-08-19**



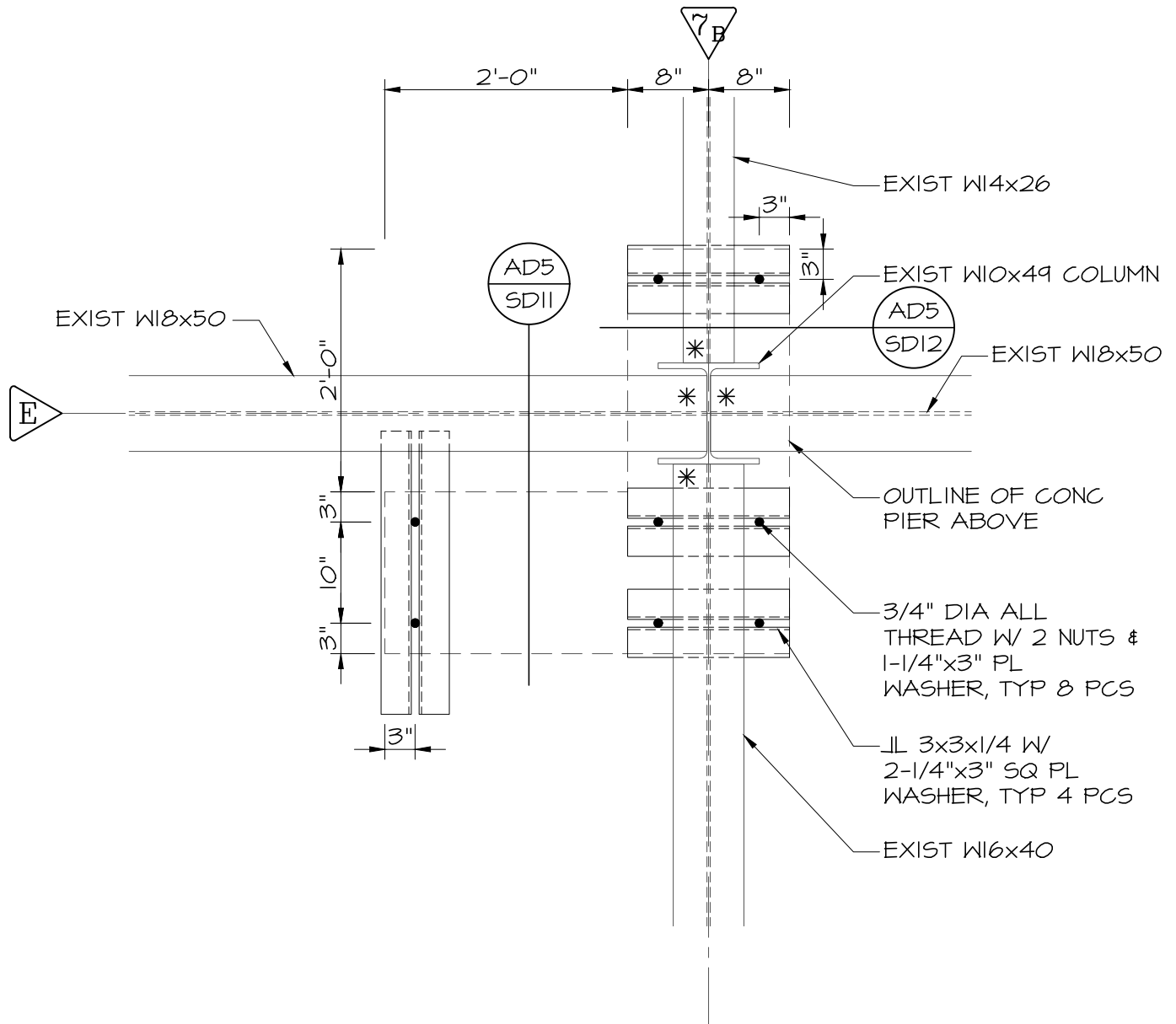
1 DETAIL
SCALE: 3/4"=1'-0"

ADDENDUM 5
SHEET NO.

SD9

ADDENDUM DRAWING

PROJECT: **POTTAWATTAMIE CO COURTHOUSE** PROJECT # : **107419D**
CHILLER IMPROVEMENTS DATE: **11-08-19**



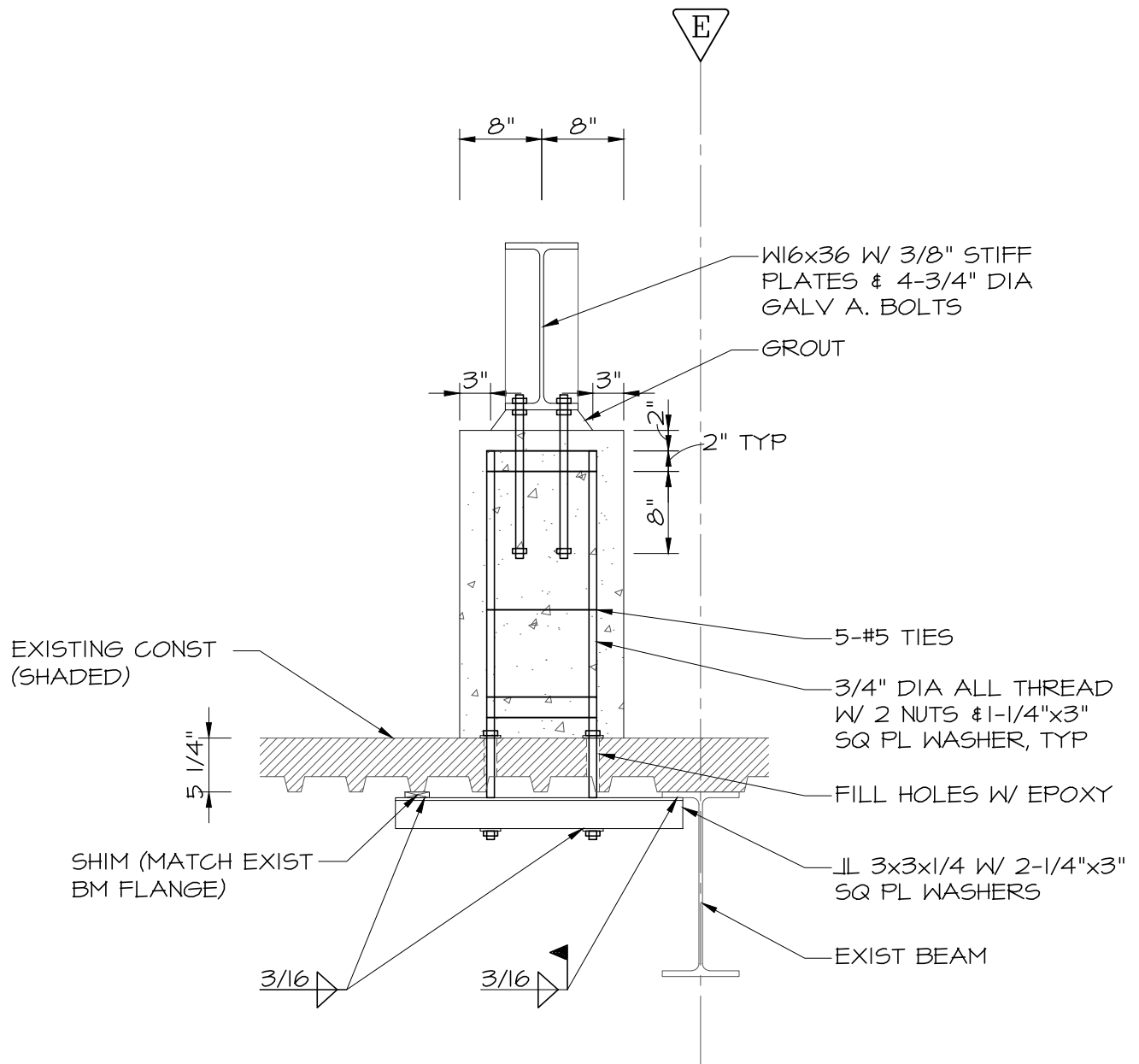
1 **DETAIL**
SCALE: 3/4"=1'-0"

ADDENDUM 5
SHEET NO.

SD10

ADDENDUM DRAWING

PROJECT: **POTTAWATTAMIE CO COURTHOUSE** PROJECT # : **107419D**
CHILLER IMPROVEMENTS
DATE: **11-08-19**



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

ADDENDUM 5
SHEET NO.

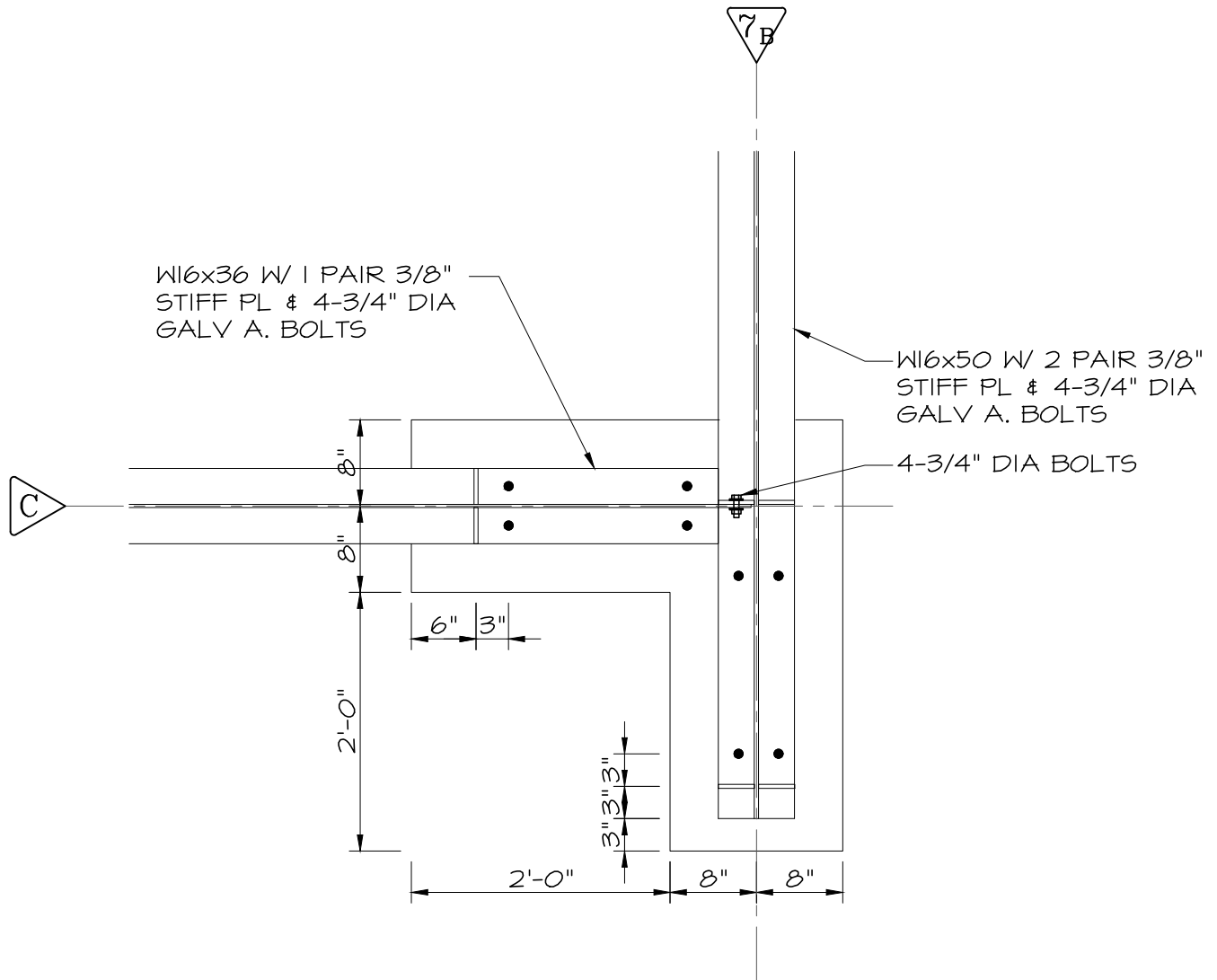
SD11

1 DETAIL

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

ADDENDUM DRAWING

PROJECT: **POTTAWATTAMIE CO COURTHOUSE** PROJECT # : **107419D**
CHILLER IMPROVEMENTS DATE: **11-08-19**



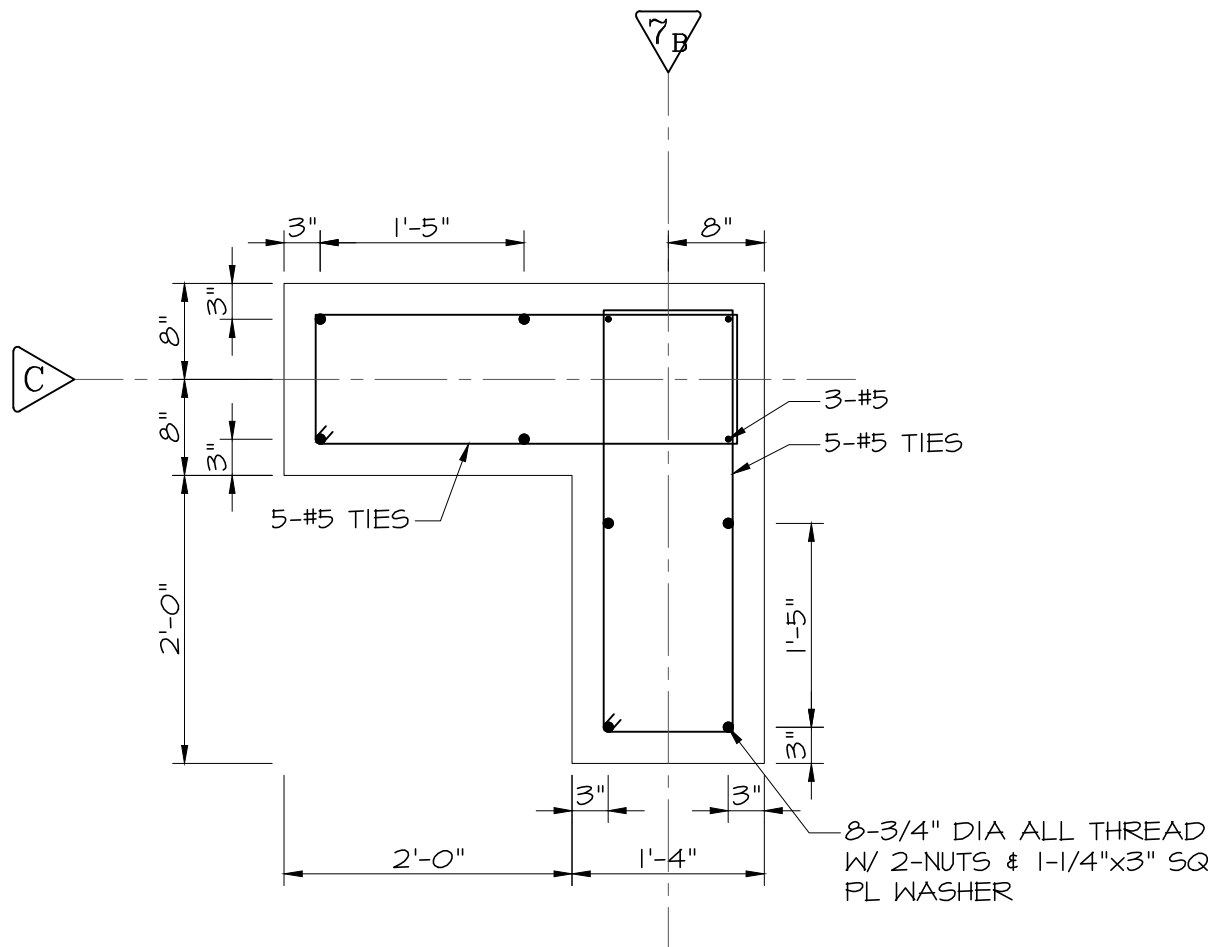
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SCALE: 3/4"=1'-0"

ADDENDUM 5
SHEET NO.

SD13

ADDENDUM DRAWING

PROJECT: **POTTAWATTAMIE CO COURTHOUSE** PROJECT # : **107419D**
CHILLER IMPROVEMENTS DATE: **11-08-19**



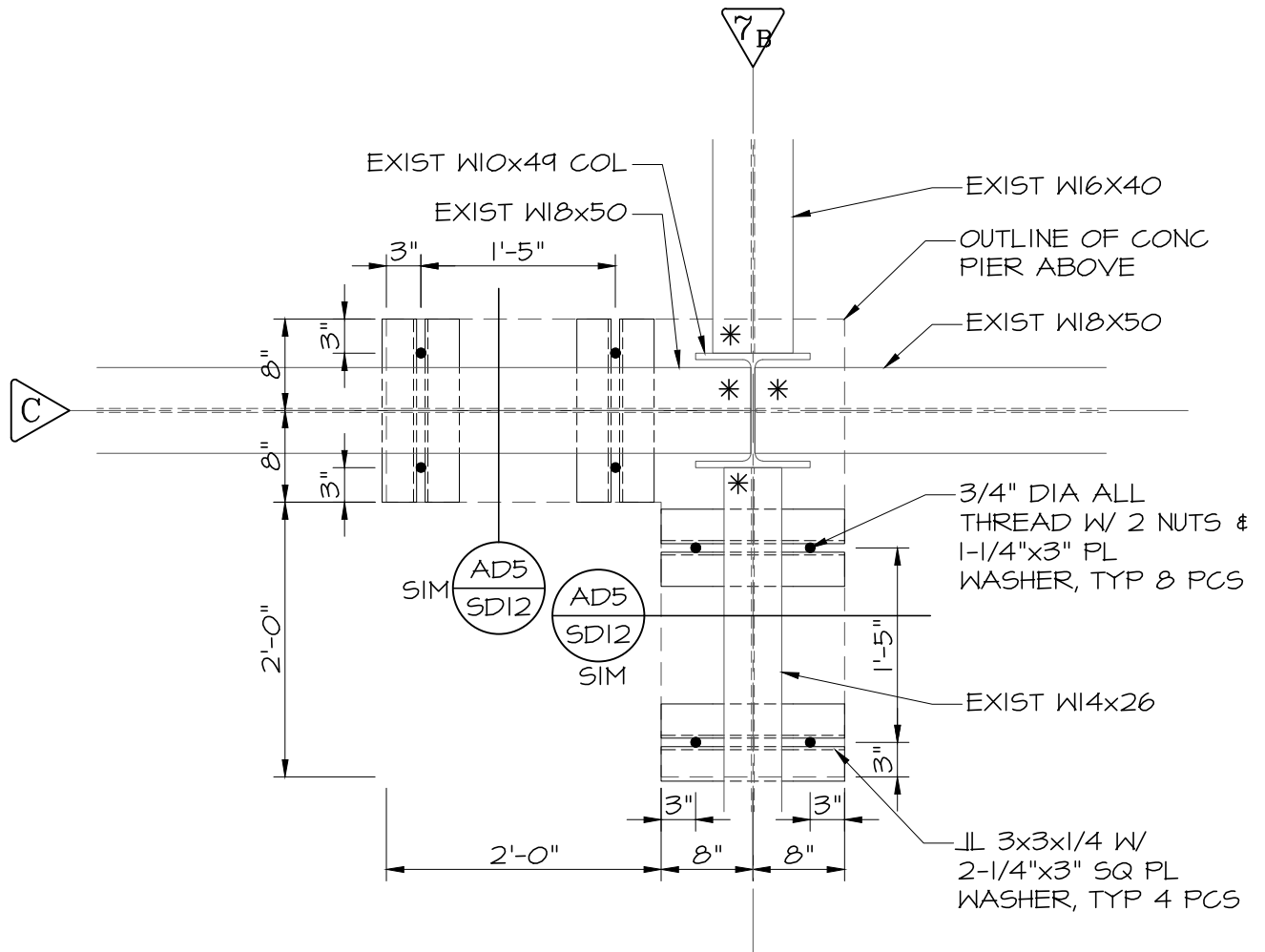
1 DETAIL
SCALE: 3/4"=1'-0"

ADDENDUM 5
SHEET NO.

SD14

ADDENDUM DRAWING

PROJECT: **POTTAWATTAMIE CO COURTHOUSE** PROJECT #: **107419D**
CHILLER IMPROVEMENTS
DATE: **11-08-19**



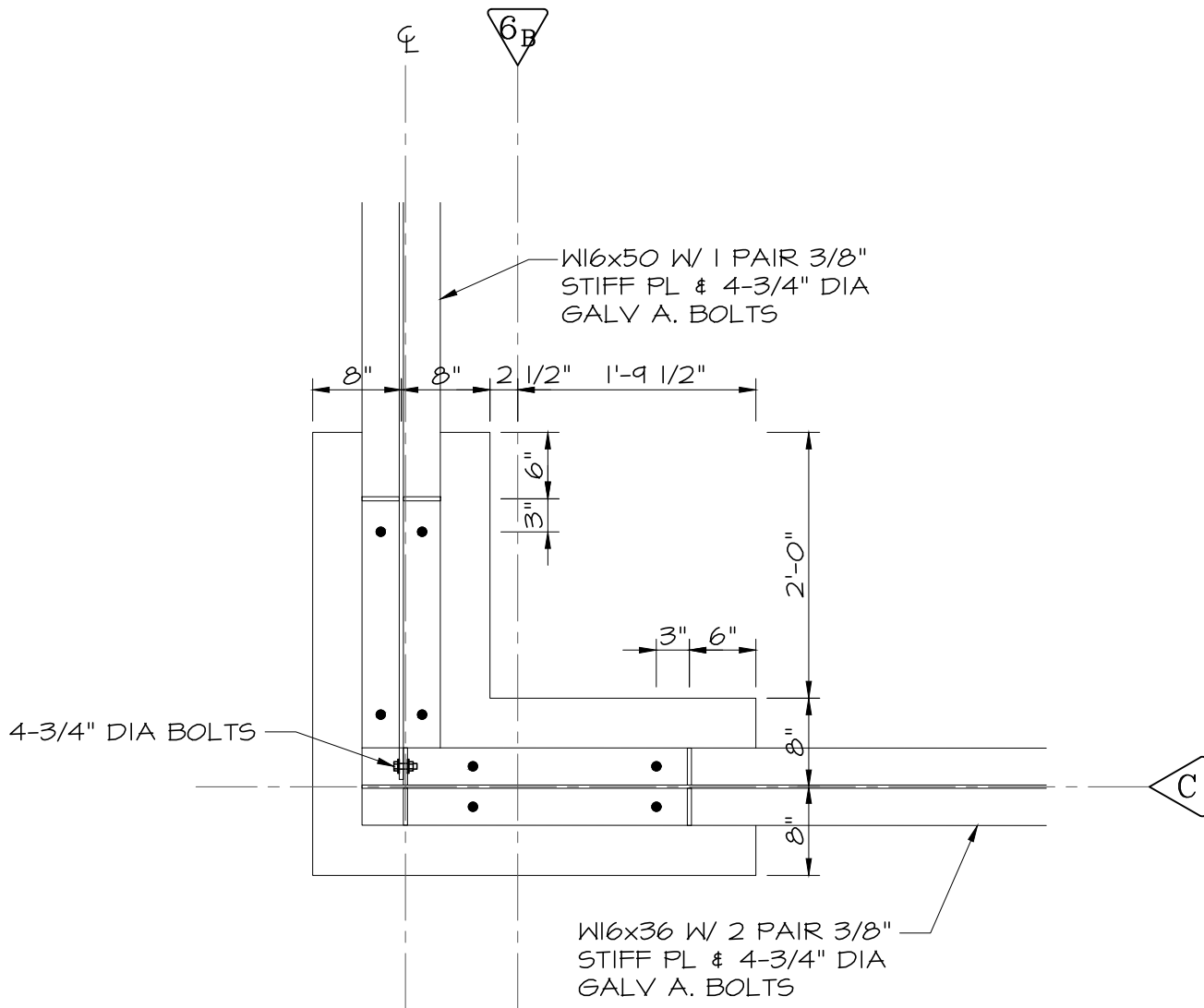
1 **DETAIL**
SCALE: 3/4"=1'-0"

ADDENDUM 5
SHEET NO.

SD15

ADDENDUM DRAWING

PROJECT: **POTTAWATTAMIE CO COURTHOUSE** PROJECT # : **107419D**
CHILLER IMPROVEMENTS DATE: **11-08-19**



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

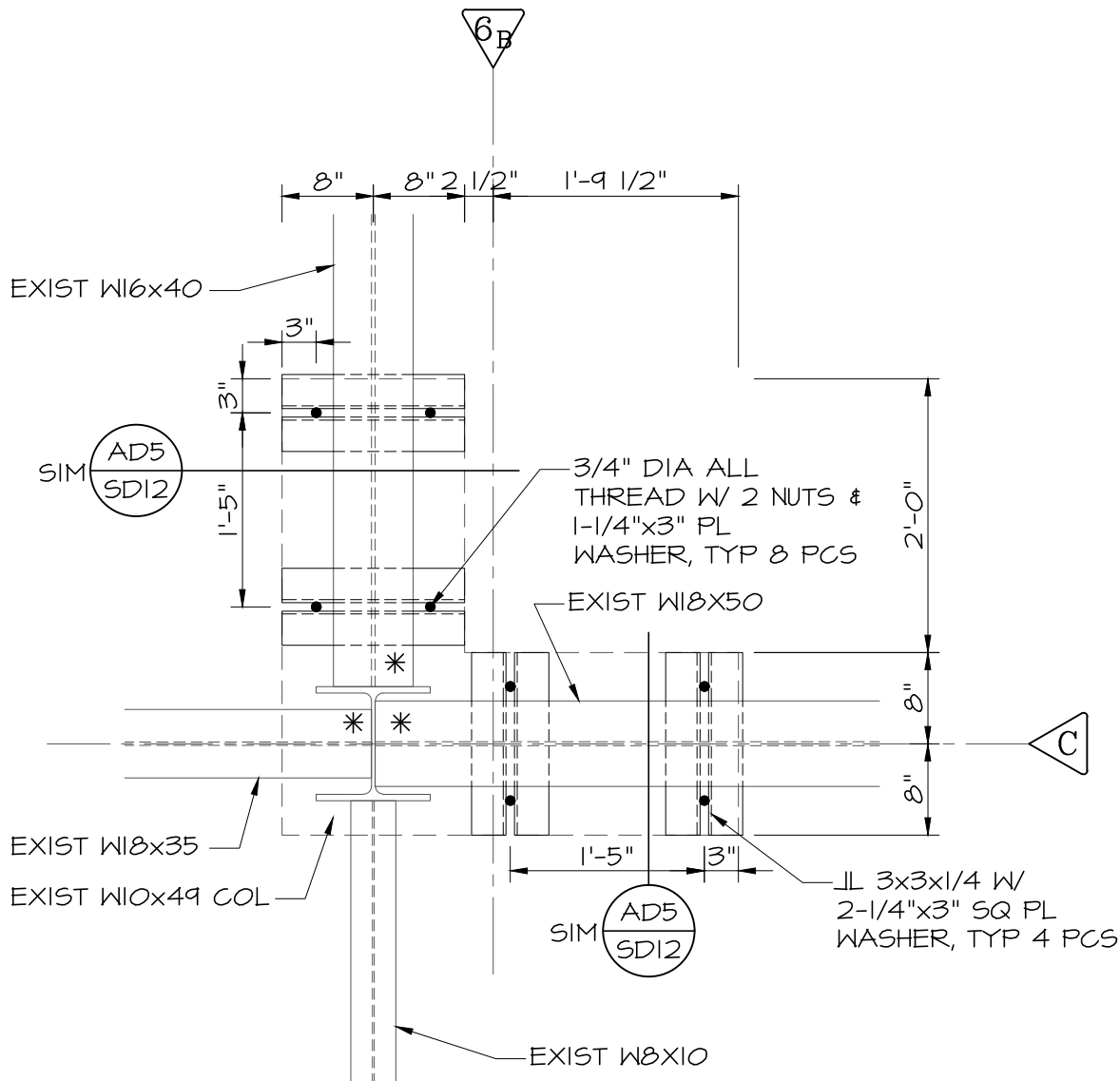
ADDENDUM 5
SHEET NO.

SD16

SD17

ADDENDUM DRAWING

PROJECT: **POTTAWATTAMIE CO COURTHOUSE** PROJECT # : **107419D**
CHILLER IMPROVEMENTS
DATE: **11-08-19**



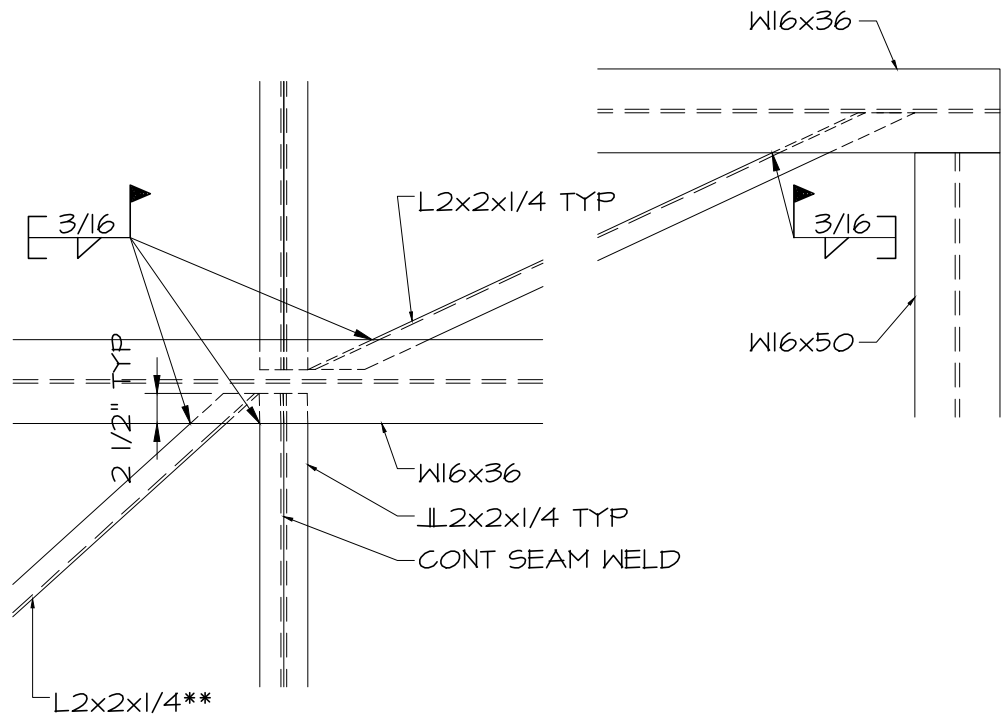
1 **DETAIL**
SCALE: 3/4"=1'-0"

ADDENDUM 5
SHEET NO.

SD18

ADDENDUM DRAWING

PROJECT: **POTTAWATTAMIE CO COURTHOUSE** PROJECT # : **107419D**
CHILLER IMPROVEMENTS DATE: **11-08-19**



**ALIGN VERT LEG W/
INTERSECTION OF W16 & L2

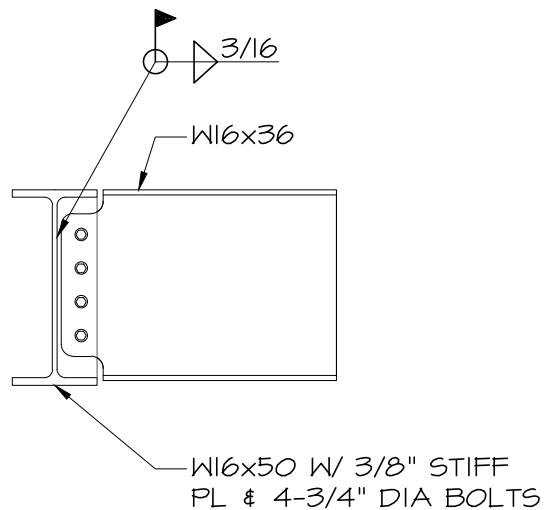
1 **DETAIL**
SCALE: 3/4"=1'-0"

ADDENDUM 5
SHEET NO.

SD19

ADDENDUM DRAWING

PROJECT: **POTTAWATTAMIE CO COURTHOUSE** PROJECT # : **107419D**
CHILLER IMPROVEMENTS DATE: **11-08-19**



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

ADDENDUM 5
SHEET NO.

SD20

ADDENDUM DRAWING

PROJECT: **POTTAWATTAMIE CO COURTHOUSE** PROJECT #: **107419D**
CHILLER IMPROVEMENTS DATE: **11-08-19**

STRUCTURAL ROOF FRAMING NOTES (CHILLER UNITS)

1. STRUCTURAL DESIGN IS BASED UPON CHILLER MODEL NUMBER AGZ-E (UNIT TAG: 150-TON) AS MANUFACTURED BY DAIKIN. MODIFICATIONS (TIME AND ALL ASSOCIATED COSTS) TO THE DESIGN, CAUSED BY THE CONTRACTOR'S SELECTION OF ANOTHER MODEL AND/OR MANUFACTURER, SHALL BE BORNE BY THE CONTRACTOR.
2. ALL WORK SHOWN ON THE STRUCTURAL DRAWINGS (PLANS, SECTIONS, AND DETAILS) SHALL BE COMPLETE PRIOR TO INSTALLATION OF THE CHILLERS.
3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS PRIOR TO ORDERING ANY MATERIALS.
4. MATERIAL REQUIREMENTS:
 - 4.1 CONCRETE (28-DAY COMP. STRENGTH)
 - 4.2 REINFORCING STEEL - ASTM A615, GR. 60
 - 4.3 STRUCTURAL STEEL BEAMS - ASTM A992
 - 4.4 MISCELLANEOUS STEEL - ASTM A36

F _c	=	4,000 PSI
F _y	=	60,000 PSI
F _y	=	50,000 PSI
F _y	=	36 KSI

PLATES
ANGLES
THREADED RODS

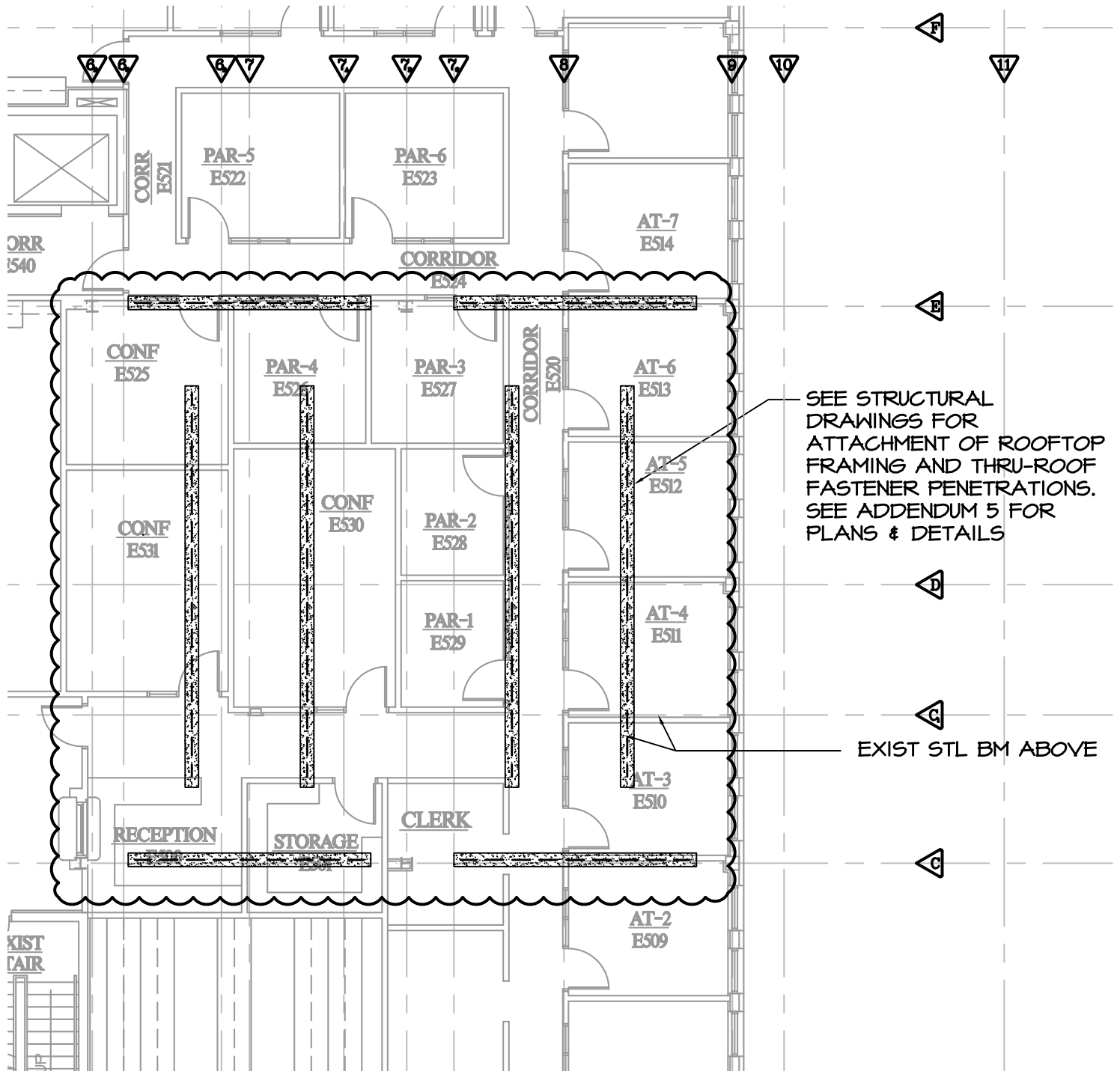
 - 4.5 STRUCTURAL BOLTS - ASTM A325
 - 4.6 WELDING ELECTRODE - AWS E70
 - 4.7 EPOXY - SIMPSON STRONG-TIE (SET-XP)
 - 4.8 GROUT SHALL BE AN EXPANSIVE, NON-METALLIC, NON-GYPSUM MATERIAL RECOMMENDED BY THE MANUFACTURER FOR EXTERIOR (WEATHER EXPOSED) APPLICATIONS.
5. TOP OF ALL CONCRETE PIERS SHALL MATCH THE FINISHED FLOOR ELEVATION WITHIN THE ELEVATOR MACHINE ROOM.
 - 5.1 REMOVE EXISTING ELEVATOR MACHINE ROOM BRICK TO INSTALL THE CONCRETE PIER LOCATED AT GRID INTERSECTION E-6B, TUCKPOINT TO FINISH BRICK TO BE TIGHT TO THE PIER. RAKE-BACK THE JOINTS, WHERE BRICK AND PIER INTERSECT (BOTH HORIZONTAL AND VERTICAL), AND APPLY SEALANT TO MAKE JOINTS WATERTIGHT.
6. WELD (3/16" CONTINUOUS FILLET) ALL AROUND EACH CONNECTION ANGLE AT THE EXISTING BEAM AND GIRDER ENDS NOTED WITH AN ASTERISK. NOTIFY ARCHITECT/ENGINEER IF NON-STANDARD, DOUBLE ANGLE, BOLTED ONLY SHEAR CONNECTIONS EXIST.
7. REPAIR FIREPROOFING DAMAGED OR REMOVED, TO PERFORM THE WORK INDICATED, TO ACHIEVE A 3-HOUR, RESTRAINED ASSEMBLY, UL APPROVED, FIRE RATING.
8. PRIOR TO INSTALLATION OF THE CHILLERS, THE TOP ELEVATION OF ALL W16x36 AND W16x50 BEAMS SHALL MATCH AND SHALL BE LEVEL.
9. ANGLE BRACING SHALL BE WELDED TO THE UNDERSIDE OF THE W16x36 TOP FLANGE.
10. UNLESS NOTED OTHERWISE ALL WELDS SHALL BE CONTINUOUS 3/16" FILLET WELDS. STIFFENER PLATES SHALL BE WELDED ALL-AROUND BOTH SIDES.
11. GROUT BELOW ALL BEAMS SUPPORTED ON PIERS FOR THE FULL LENGTH OF BEARING. FINISH WITH A 45° TAPER AT THE TOES OF THE FLANGES.
12. PROVIDE AND INSTALL CONNECTION HARDWARE TO SECURE EACH CHILLER UNIT TO THE W16x36 BEAMS. CONNECTIONS SHALL BE AS RECOMMENDED BY DAIKIN. CAPACITY OF EACH CONNECTION (BOTH SHEAR AND TENSION ACTING SIMULTANEOUSLY) SHALL BE 10.0 KIP. ALL EXPOSED HARDWARE SHALL BE HOT-DIP GALVANIZED.
13. CHILLERS UNITS SHALL BE INSTALLED SYMMETRICALLY ON THE W16x36 BEAMS SPACED 7'-0" O.C. AFTER ALL CHILLERS ARE IN-PLACE, SHIM CHILLERS (USING TECHNIQUES AND MATERIALS AS RECOMMENDED BY THE CHILLER MANUFACTURE FOR EXTERIOR APPLICATION) SO ALL UNITS ARE LEVEL.

ADDENDUM 5
SHEET NO.

SD21

ADDENDUM DRAWING

PROJECT: **POTTAWATTAMIE CO COURTHOUSE** PROJECT # : **107419D**
CHILLER IMPROVEMENTS
DATE: **11-08-19**



1 FIFTH FLOOR PLAN
SCALE: 3/32" = 1'-0"

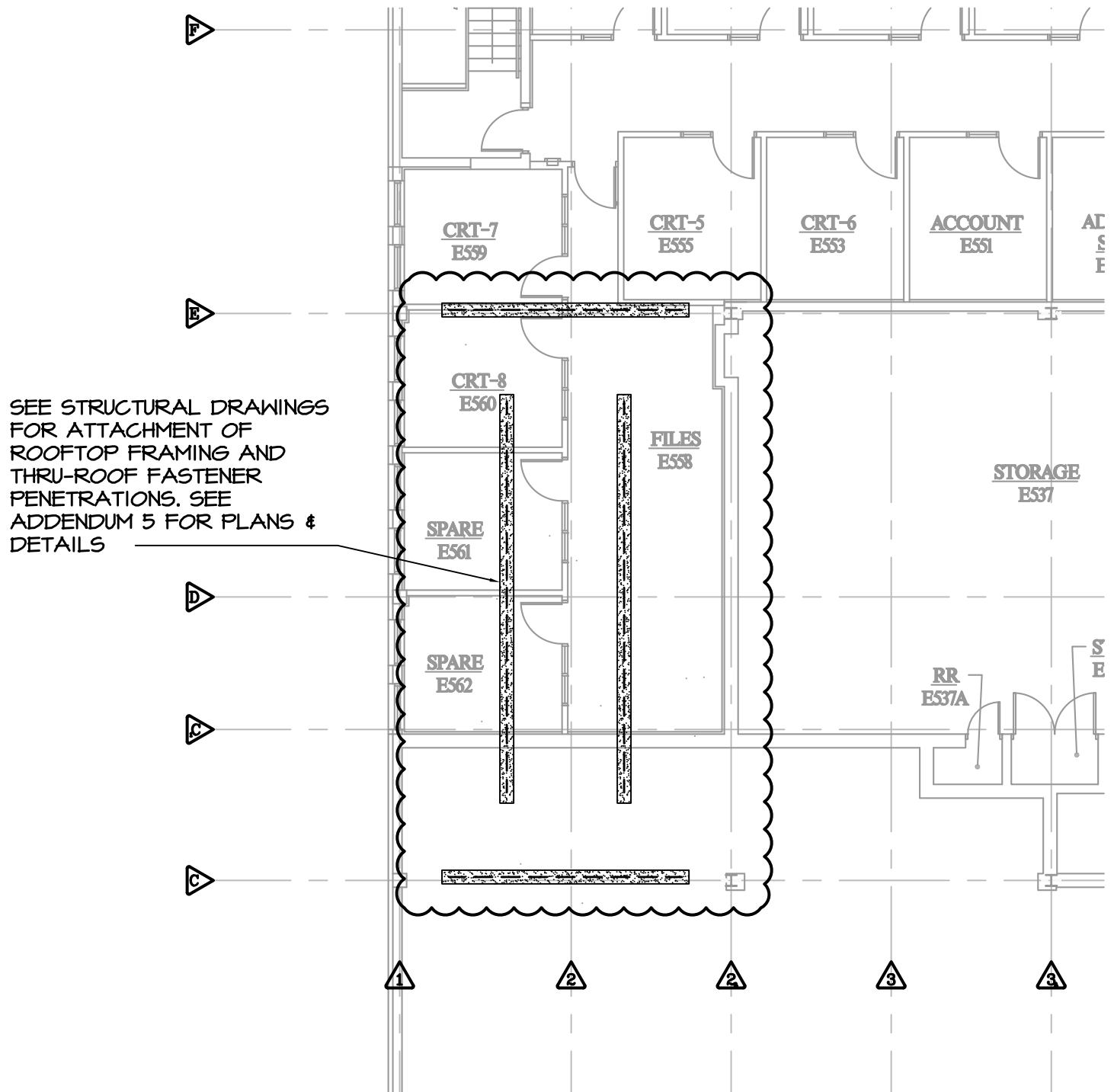


ADDENDUM 5
SHEET NO.

SD22

ADDENDUM DRAWING

PROJECT: **POTTAWATTAMIE CO COURTHOUSE** PROJECT # : **107419D**
CHILLER IMPROVEMENTS DATE: **11-08-19**



1 FIFTH FLOOR PLAN
SCALE: 3/32" = 1'-0"

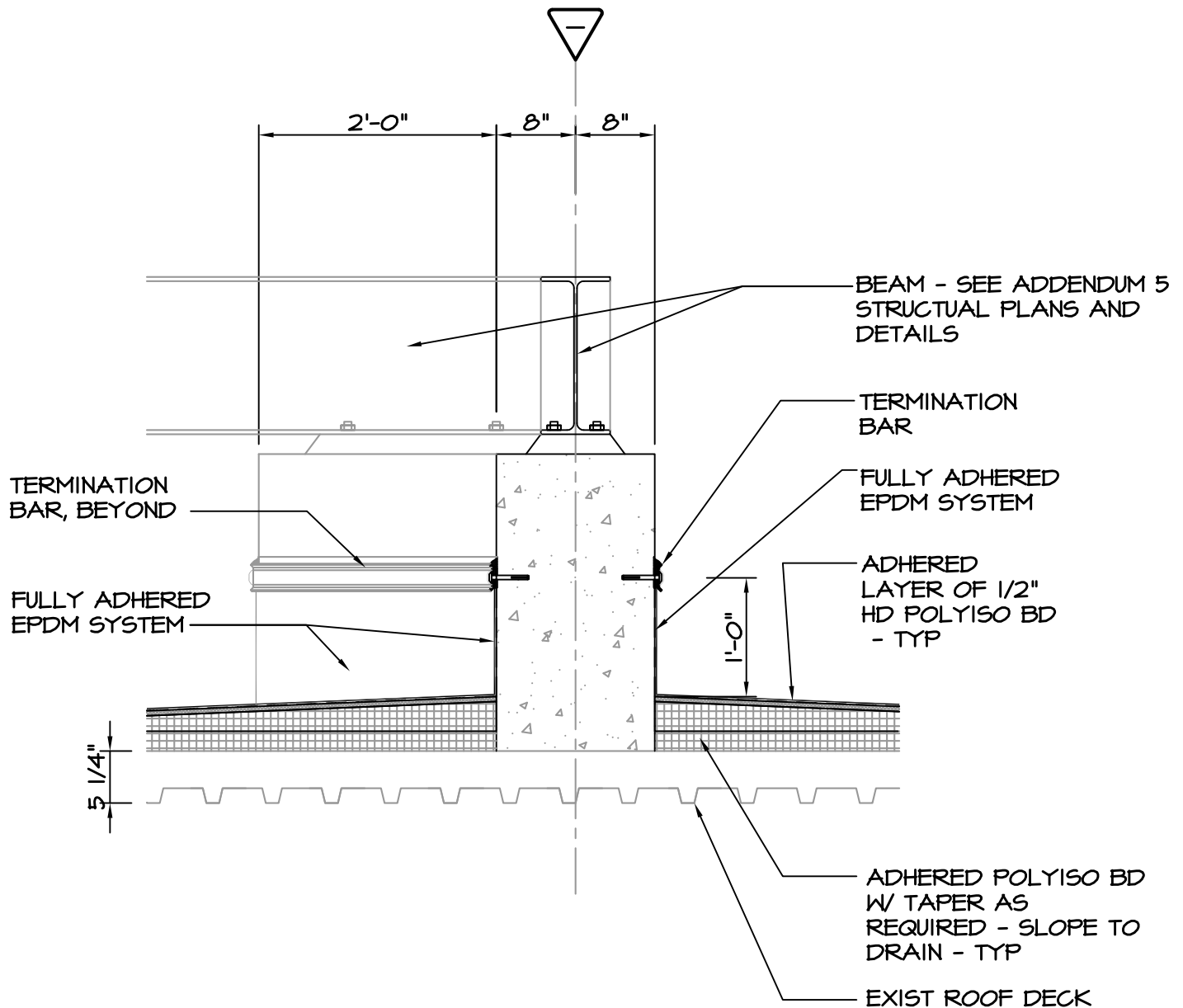


ADDENDUM 5
SHEET NO.

SD23

ADDENDUM DRAWING

PROJECT: **POTTAWATTAMIE CO COURTHOUSE** PROJECT # : **107419D**
CHILLER IMPROVEMENTS
DATE: **11-08-19**



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

ADDENDUM 5
SHEET NO.

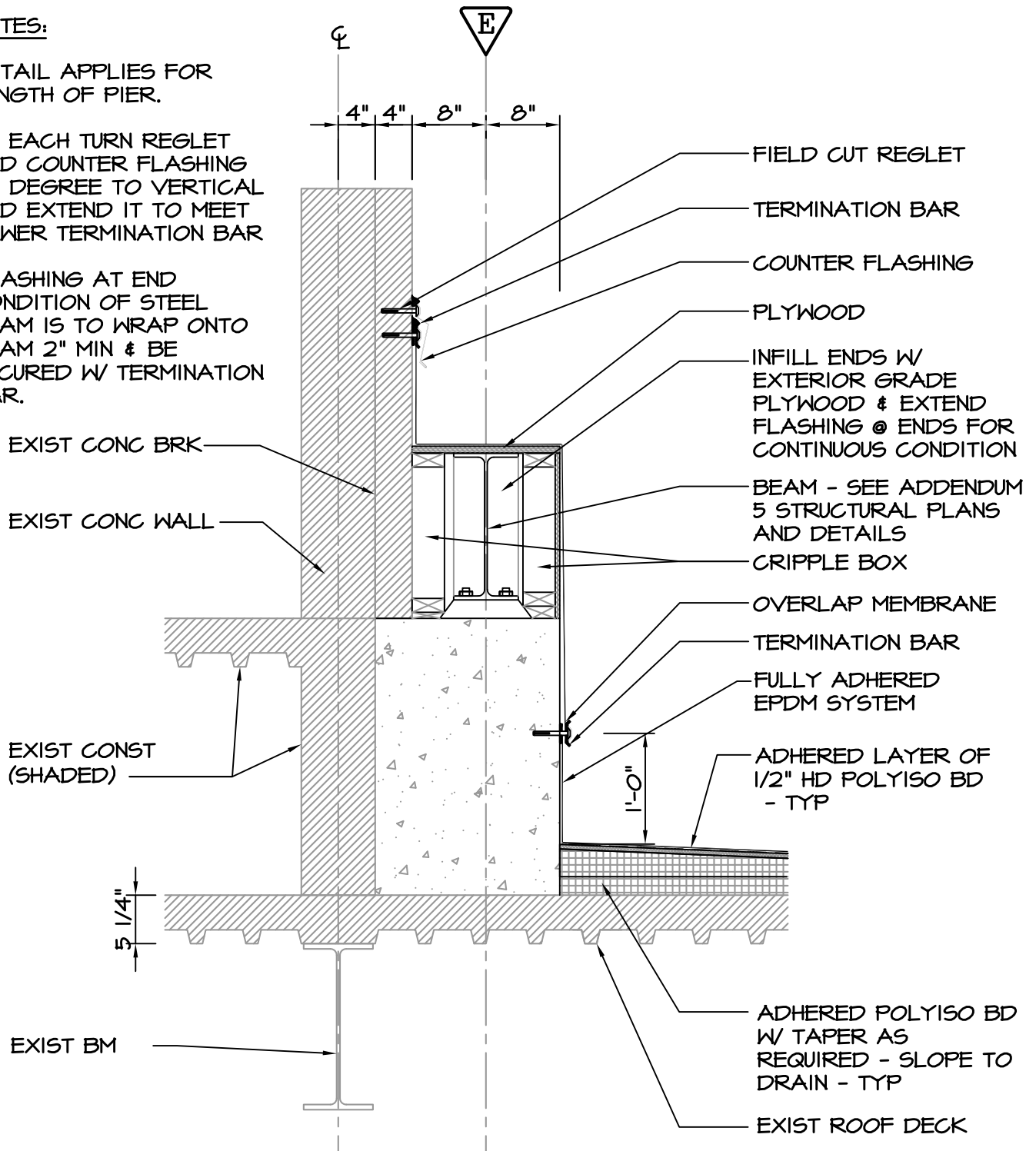
SD24

ADDENDUM DRAWING

PROJECT: **POTTAWATTAMIE CO COURTHOUSE** PROJECT # : **107419D**
CHILLER IMPROVEMENTS
DATE: **11-08-19**

NOTES:

1. DETAIL APPLIES FOR LENGTH OF PIER.
2. AT EACH TURN REGLET AND COUNTER FLASHING 90 DEGREE TO VERTICAL AND EXTEND IT TO MEET LOWER TERMINATION BAR
3. FLASHING AT END CONDITION OF STEEL BEAM IS TO WRAP ONTO BEAM 2" MIN & BE SECURED W/ TERMINATION BAR.

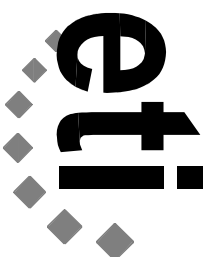
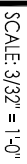


1 SECTION AT PENTHOUSE
SCALE: 3/4"=1'-0"

ADDENDUM 5
SHEET NO.

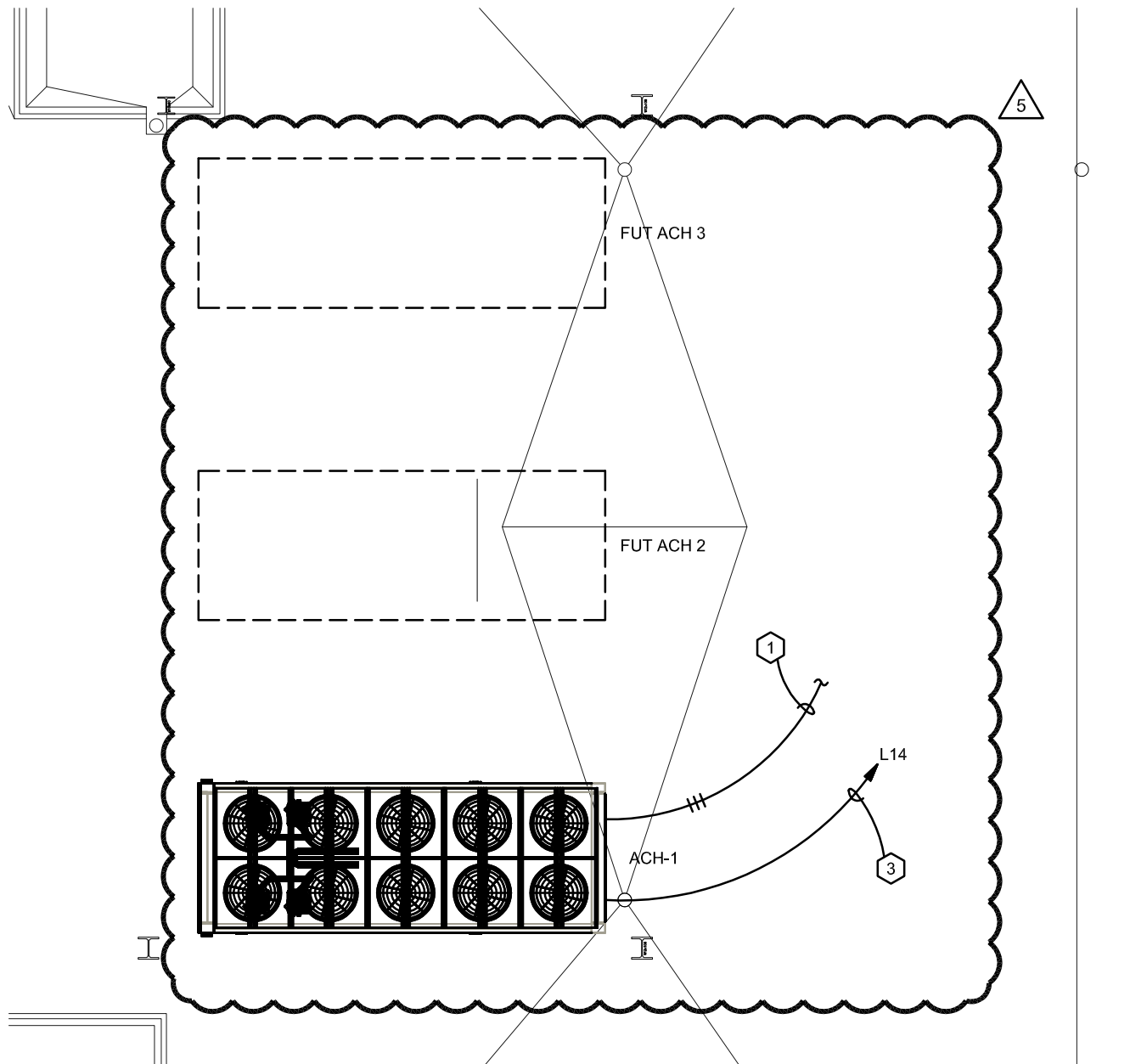
SD25

1. REMOVE BOILER EXHAUST AND INTAKE FLUES AS SHOWN BY HATCH. COORDINATE ROOF PATCH AND REPAIR WITH GENERAL CONTRACTOR.
2. NEW LIQUID AND SUCTION LINES FOR AIR-COOLED CHILLER ACH-1.
3. FUTURE ROUTING FOR REFRIGERANT LIQUID AND SUCTION LINES FOR FUTURE CHILLERS ACH-2 AND ACH-3.
4. NOT USED.
5. PROVIDE ROOF CURB PER DETAIL 4/M/5.1.
6. AIR-COOLED CHILLER ACH-1 AND FUTURE CHILLERS MOUNTED STRUCTURAL MEMBERS.
7. MINIMUM MANUFACTURER CLEARANCES SHALL BE MAINTAINED.



ETI Project No: (2019-155)

11/08/2019

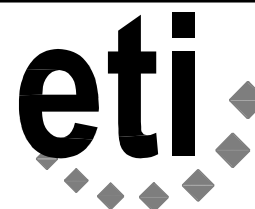


POTTAWATTAMIE COUNTY COURTHOUSE:
CHILLER PLANT PACKAGE
ELECTRICAL ROOF PLAN

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



JMM



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ETI Project No: (2019-155)

ADD #5

SHEET
E2.6

ATTACHMENT NO.

E1

11/08/2019