

STRUCTURAL NOTES:

GENERAL NOTES:

1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND EXISTING FIELD CONDITIONS. PERFORM SITE OBSERVATIONS & MEASUREMENTS FOR OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.

2. ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.

3. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING (AND ACCOMPANYING FOOTINGS), GUYS OR TIE-DOWNS.

4. ADDITIONAL OBSERVATIONS AS A RESULT OF REJECTION OF WORK COMPLETED AND/OR ADDITIONAL OBSERVATIONS DUE TO THE DEFICIENCIES IN WORK OBSERVED WILL BE AT THE EXPENSE OF THE CONTRACTOR.

5. ALL STRUCTURAL SHOP DRAWINGS TO BE REVIEWED BY JOB SUPERINTENDENT IN ADDITION TO ALL PERSONNEL DEEMED NECESSARY BY CONTRACTOR PRIOR TO SUBMITTAL TO ENGINEER FOR APPROVAL.

6. ALL SHOP DRAWING RESUBMITTALS SHALL INCLUDE A WRITTEN DETAILED LIST OF LOCATIONS AND DESCRIPTIONS OF ALL CHANGES MADE FROM PREVIOUS SUBMITTAL. LIST SHALL BE SPECIFIC AND GENERAL NOTE SUCH AS "DIMENSIONS CORRECTED" ARE NOT ACCEPTABLE.

7. ALL SHOP DRAWINGS TO BE REVIEWED BY ALBERTSON ENGINEERING INC. SHALL HAVE (2) HARD COPIES PROVIDED TO ALBERTSON ENGINEERS INC. FOR REVIEW. ONE MARKED SET OF THOSE DRAWINGS WILL BE RETURNED TO THE CONTRACTOR WHO WILL BE RESPONSIBLE FOR SCANNING IN ELECTRONICALLY AND PROVIDING FULL COLOR PDF ELECTRONIC FILES (OR OTHER APPROVED FILE TYPE) TO ALBERTSON ENGINEERING INC. ALBERTSON ENGINEERING INC. WILL NOT TRANSFER MARKS TO ANY ADDITIONAL COPIES OF THE SHOP DRAWINGS. COPIES OF THE MARKED UP COPIES SHALL BE USED FOR THE REMAINING PORTION OF THE SHOP DRAWING SUBMITTAL AND APPROVAL PROCESS. NO ADDITIONAL HARD COPIES OF THE SHOP DRAWINGS NEED TO BE PROVIDED TO ALBERTSON ENGINEERING INC. ALTHOUGH OTHER PARTIES MAY REQUIRE HARD COPIES OF THE MARKED UP DRAWINGS. THESE REQUIREMENTS ARE IN ADDITION TO THE TYPICAL PROJECT SHOP DRAWING SUBMITTAL REQUIREMENTS STATED IN THE PROJECT SPECIFICATIONS.

8. THE DESIGN OF THE STRUCTURE SHOWN IN THESE CONSTRUCTION DOCUMENTS IS FOR THE ONE-TIME USE AT THE SPECIFIC SITE REFERENCED IN THE DRAWINGS.

DESIGN CODES:

- 2012 INTERNATIONAL BUILDING CODE.

PENETRATIONS:

NO PENETRATIONS SHALL BE MADE IN ANY STRUCTURAL MEMBERS OTHER THAN THOSE LOCATED ON THESE DRAWINGS WITHOUT PREVIOUS APPROVAL OF THE ENGINEER.

STRUCTURAL STEEL:

1. STEEL SHALL CONFORM TO ASTM A992 (Fy=50 KSI) FOR ALL W-SHAPES, AND ASTM A36 (Fy=36 KSI) FOR ALL OTHER MISCELLANEOUS SHAPES AND PLATES. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B (Fy=48 KSI). STRUCTURAL PIPE SHALL CONFORM TO ASTM A53, GRADE B, TYPE "E" OR "S" (Fy=35 KSI).

2. STEEL SHALL CONFORM TO THE LATEST EDITION OF "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDING" BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) AND TO THE AISC CODE OR STANDARD PRACTICE (LATEST EDITION).

3. ALL SHOP CONNECTIONS TO BE WELDED (UTILIZING E70XX ELECTRODES) AND FIELD CONNECTIONS TO BE BOLTED, UNLESS OTHERWISE NOTED. STEEL TO RECEIVE ONE SHOP COAT AND ONE FIELD TOUCH UP COAT OF APPROVED PAINT, EXCEPT WHERE GALVANIZED IS INDICATED ON THE DRAWINGS.

4. WELDS FOR ALL EXPOSED STRUCTURAL STEEL SHALL BE GROUND SMOOTH UNLESS NOTED OTHERWISE.

5. ALL BOLTED CONNECTIONS (UNLESS NOTED OTHERWISE) SHALL CONSIST OF 3/4" DIA. (MIN.) ASTM A325 HIGH STRENGTH BOLTS. ALL 3/4" DIA. BOLTS SHALL HAVE LOAD INDICATING SQUIRTER WASHERS, ADDITIONALLY PROVIDE BEVELED WASHERS AT CONNECTIONS TO CHANNEL FLANGES.

6. CONTRACTOR SHALL COMPLETELY FABRICATE ITEMS AT THEIR FACILITY. BOLTS MAY BE ASOT FOR FIT UP PURPOSES. ANY BOLTS USED IN THIS STAGE SHALL NOT BE USED IN FINAL ASSEMBLY IF THEY ARE TIGHTENED BEYOND SNUG TIGHT OR IN ANY OF THE PAIN FROM THE SQUIRTABLE WASHERS ESCAPES OR IS VISIBLE.

7. OWNER'S REPRESENTATIVES SHALL INSPECT ASSEMBLIES AT FABRICATORS YARD. NO WORK SHALL OCCUR UNTIL OWNER'S REPRESENTATIVES HAVE APPROVED SUCH STAGES.

8. STEEL SHALL BE FABRICATED TO TOLERANCES STATED IN AISC MANUAL OF STANDARD PRACTICE, EXCEPT LENGTHS SHALL BE WITHIN 1/16" OF LENGTH SHOWN.

9. PIECES NOT MADE TO CONFORM TO TOLERANCES SHALL BE DISCARDED. NO SPLICES OR ANY KIND SHALL BE PERMITTED.

10. HANDRAILS, KICK PLATES & LANYARD TIE-OFFS SHALL BE PRIMED & PAINTED WITH A SAFETY YELLOW COLOR PAINT. ALL OTHER STEEL SHALL BE PRIMED.

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8. STEEL SHALL BE FABRICATED TO TOLERANCES STATED IN AISC MANUAL OF STANDARD PRACTICE, EXCEPT LENGTHS SHALL BE WITHIN 1/16" OF LENGTH SHOWN.

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MATERIALS LEGEND

DENOTES EXISTING IN PLAN & SECTION

COMPACTED FILL

GRANULAR FILL

CONCRETE IN SECTION

GROUT IN SECTION

DIMENSION LUMBER

WOOD BLOCKING

PLYWOOD IN SECTION

LAMINATED VENEER LUMBER IN SECTION

I-JOIST IN SECTION

GLU-LAMINATED LUMBER IN SECTION

RIM BOARD VENEER LUMBER IN SECTION

RIGID INSULATION

STEEL IN SECTION (SHAPE VARIES)

STEEL STUDS (SHAPE VARIES) IN SECTION

STUD WALL IN PLAN/SECTION

MASONRY IN SECTION

PAINT ALL STEEL WITH BITUMINOUS PAINT BELOW CONCRETE

AISC 360-10 TABLE N5.4-1
INSPECTION TASKS PRIOR TO WELDING

INSPECTION TASKS PRIOR TO WELDING

INSPECTION INTERVAL

REQUIRED ON THIS PROJECT

WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE

P

YES

MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE

P

YES

MATERIAL IDENTIFICATION (TYPE/GRADE)

O

YES

WELDER IDENTIFICATION SYSTEM

O

YES

FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)

• JOINT PREPARATION

• DIMENSIONS (ALIGNMENT, GAPS AT ROOT)

• CLEANLINESS (CONDITION OF STEEL SURFACES)

• TACKING (TACK WELD QUALITY AND LOCATION)

O

YES

CONFIGURATION AND FINISH OF ACCESS HOLES

O

NO

FIT-UP OF FILLET WELDS

• DIMENSIONS (ALIGNMENT, GAPS AT ROOT)

• CLEANLINESS (CONDITION OF STEEL SURFACES)

• TACKING (TACK WELD QUALITY AND LOCATION)

O

YES

CHECK WELDING EQUIPMENT

O

YES

1 THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.

AISC 360-10 TABLE N5.4-2
INSPECTION TASKS DURING WELDING

INSPECTION TASKS DURING WELDING

INSPECTION INTERVAL

REQUIRED ON THIS PROJECT

USE OF QUALIFIED WELDERS

O

YES

CONTROL AND HANDLING OF WELDING CONSUMABLES

• PACKAGING

• EXPOSURE CONTROL

O

YES

NO WELDING OVER CRACKED TACK WELDS

O

YES

ENVIRONMENTAL CONDITIONS

• WIND SPEED WITHIN LIMITS

• PRECIPITATION AND TEMPERATURE

O

YES

WPS FOLLOWED

• SETTINGS ON WELDING EQUIPMENT

• TRAVEL SPEED

• SELECTED WELDING MATERIALS

• SHIELDING GAS TYPE/FLOW RATE

• PREHEAT APPLIED

• INTERPASS TEMPERATURE MAINTAINED (MIN/MAX)

• PROPER POSITION (F, V, H, OH)

O

YES

WELDING TECHNIQUES

• INTERPASS AND FINAL CLEANING

• EACH PASS WITHIN PROFILE LIMITATIONS

• EACH PASS MEETS QUALITY REQUIREMENTS

O

YES

AISC 360-10 TABLE N5.4-3
INSPECTION TASKS AFTER WELDING

INSPECTION TASKS AFTER WELDING

INSPECTION INTERVAL

REQUIRED ON THIS PROJECT

WELDS CLEANED

O

YES

SIZE, LENGTH AND LOCATION OF WELDS

P

YES

WELDS MEET VISUAL ACCEPTANCE CRITERIA

• CRACK PROHIBITION

• WELD/BASE-METAL FUSION

• CRATER CROSS SECTION

• WELD PROFILES

• WELD SIZE

• UNDERCUT

• POROSITY

P

YES

ARC STRIKES

P

YES

k-AREA²

P

YES

BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)

P

YES

REPAIR ACTIVITIES

P

YES

DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER

P

YES

2 WHEN WELDING OF DOUBLE PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE k-AREA, VISUALLY INSPECT THE WEB k-AREA FOR CRACKS WITHIN 3" (75 mm) OF THE WELD.

ABBREVIATIONS

ADD'L - ADDITIONAL

@ - AT

& - AND

APA - AMERICAN PLYWOOD ASSOCIATION

AB - ANCHOR BOLT

ALT - ALTERNATE

ARCH - ARCHITECTURAL

BSMT - BASEMENT

BM - BEAM

BRG - BEARING

BIT - BITUMINOUS

BLK - BLOCK

BLKG - BLOCKING

BD - BOARD

BD BM - BOND BEAM

BD - BOARD

BOT - BOTTOM

BLDG - BUILDING

CANT - CANTILEVER

CL - CENTER LINE

CC - CENTER TO CENTER

C - CHANNEL

CIP - CAST IN PLACE

CLR - CLEAR

COL - COLUMN

COMP - COMPOSITE

CONC - CONCRETE

CMU - CONCRETE MASONRY UNIT

CONN - CONNECTION

CONST - CONSTRUCTION

CONTR J - CONTROL JOINT

CONT - CONTINUOUS

D BRG - DECK BEARING

DL - DEAD LOAD

° - DEGREE

DEMO - DEMOLITION

DET - DETAIL

DIM - DIAMETER

INSUL - INSULATION

DWL - DOWEL

DWGS - DRAWINGS

D P - DRILLED PIER

EA - EACH

E F - EACH FACE

E W - EACH WAY

E - EAST

ELEC - ELECTRICAL

EL - ELEVATION

ELEV - ELEVATOR

EQ - EQUAL

(E) - EXISTING

EXP JT - EXPANSION JOINT

EXT - EXTERIOR

F FLR - FINISHED FLOOR

FT - FOOT

FTG - FOOTING

FDN - FOUNDATION

GALV - GALVANIZED

GA - GAUGE

G C - GENERAL CONTRACTOR

GLU-LAM - GLUED LAMINATED LUMBER

GYP BD - GYPSUM BOARD

GT - GIRDER TRUSS

HS - HEADED STUD

HP - HIGH POINT

HK - HOOK

H/C - HOLLOW CORE PLANK

HSS - HOLLOW STRUCTURAL SECTION

HORIZ - HORIZONTAL

IN - INCH

INSUL - INSULATION

INT - INTERIOR

JNT - JOINT

JST - JOIST

JST BRG - JOIST BEARING

k - KIPS (1,000 LBS. = 1 KIP)

LVL - LAMINATED VENEER LUMBER

L W - LIGHT WEIGHT

LTL - L-INTEL

LL - LINE LOAD

LLH - LONG LEG HORIZONTAL

LLV - LONG LEG VERTICAL

LONGIT - LONGITUDINAL

M O - MASONRY OPENING

MAX - MAXIMUM

MECH - MECHANICAL

ML - MICRO LAMINATED LUMBER

MIN - MINIMUM

MISC - MISCELLANEOUS

M - MOMENT

MANF - MANUFACTURER

N - NORTH

NEC - NECESSARY

NOM - NOMINAL

NTS - NOT TO SCALE

- NUMBER

OC - ON CENTER

OPNG - OPENING

OPP - OPPOSITE

OH - OVER HEAD

PAF - POWDER ACTUATED FASTENER

/ - PER

PLK - PLANK

P - PLATE

PW - PLYWOOD

PT - POST TENSION

- POUND

PSF - POUNDS PER SQUARE FOOT

PSI - POUNDS PER SQUARE INCH

PRECAS - PRECAST

R - RADIUS

REINF - REINFORCE

REQ'D - REQUIRED

REV - REVERSE

RD - ROOF DRAIN

RS - ROUGH SAWN

SS - STAINLESS STEEL

SCHED - SCHEDULE

SEC - SECTION

SER - STRUCTURAL ENGINEER OF RECORD

SHT - SHEET

SIM - SIMILAR

S - SOUTH

SPEC - SPECIFICATION

SQ - SQUARE

STD - STANDARD

STL - STEEL

TEMP - TEMPERATURE

THRU - THROUGH

T&G - TONGUE AND GROOVE

T&B - TOP AND BOTTOM

T&B - TOP OF BEAM

TOC - TOP OF CONCRETE

TOFT - TOP OF FOOTING

TOM - TOP OF MASONRY

TOP - TOP OF PIER

TOS - TOP OF STEEL

TOW - TOP OF WALL

TRANS - TRANSVERSE

TYP - TYPICAL

UNO - UNLESS NOTED OTHERWISE

VERT - VERTICAL

FV - FIELD VERIFY

WWF - WELDED WIRE FABRIC

W - WEST

W/ - WITH

WD - WOOD

± - PLUS OR MINUS

AISC 360-10 TABLE N5.6-1
INSPECTION TASKS PRIOR TO BOLTING

INSPECTION TASKS PRIOR TO BOLTING

INSPECTION INTERVAL

REQUIRED ON THIS PROJECT

MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS

O

YES

FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS

O

YES

PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TPYE, BOLT LENGTH IF THREADS ARE TO EXCLUDED FROM SHEAR PLANE)

O

YES

PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL

O

YES

CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS

O

YES

PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED

P

YES

PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS

O

YES

AISC 360-10 TABLE N5.6-2
INSPECTION TASKS DURING BOLTING

INSPECTION TASKS DURING BOLTING

INSPECTION INTERVAL

REQUIRED ON THIS PROJECT

FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED

O

YES

JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION

O

YES

FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING

O

YES

FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES

O

YES

AISC 360-10 TABLE N5.6-3
INSPECTION TASKS AFTER BOLTING

INSPECTION TASKS AFTER BOLTING

INSPECTION INTERVAL

REQUIRED ON THIS PROJECT

DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS

P

YES

• O-OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. P-PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER.

• OBSERVATION OF WELDING OPERATIONS AND VISUAL INSPECTION OF IN-PROCESS AND COMPLETED WELDS SHALL BE THE PRIMARY METHOD TO CONFIRM THAT THE MATERIALS, PROCEDURES AND WORKMANSHIP ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS.

• FOR STRUCTURAL STEEL, ALL PROVISIONS OF AWS D1.1/D1.1M SHALL APPLY.

• FOR STRUCTURES IN RISK CATEGORY II/IV (ASCE/SEI 7, TABLE 1.5-1), ULTRASONIC TESTING SHALL BE PERFORMED ON ALL COMPLETE-JOINT-PENETRATION GROOVE WELDS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING IN BUTT, T- AND CORNER JOINTS, IN MATERIALS $\frac{3}{8}$ " (8 mm) THICK OR GREATER.

• FOR STRUCTURES IN RISK CATEGORY I/II (ASCE/SEI 7, TABLE 1.5-1), ULTRASONIC TESTING SHALL BE PERFORMED ON 10% OF COMPLETE-JOINT-PENETRATION GROOVE WELDS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING IN BUTT, T- AND CORNER JOINTS, IN MATERIALS $\frac{3}{8}$ " (8 mm) THICK OR GREATER.

• THERMALLY CUT SURFACES OF ACCESS HOLES SHALL BE TESTED USING MAGNETIC PARTICLE TESTING OR PENETRANT TESTING WHEN THE FLANGE THICKNESS EXCEEDS 2" (50 mm) FOR ROLLED SHAPES, OR WHEN THE WEB THICKNESS EXCEEDS 2" (50mm) FOR BUILT-UP SHAPES. ANY CRACK SHALL BE DEEMED UNACCEPTABLE REGARDLESS OF SIZE OR LOCATION.

• ALL NONDESTRUCTIVE TESTING OF WELDED JOINTS SHALL BE DOCUMENTED.

• SEE AISC360-10 CHAPTER N FOR ADDITIONAL WELD INSPECTION REQUIREMENTS.

• SEE AISC360-10 CHAPTER N FOR ADDITIONAL BOLT INSPECTION REQUIREMENTS.

• INSPECTION SHALL OCCUR DURING THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS, INCLUDING DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE.

• FABRICATED STEEL AND ERECTED STEEL FRAMES, AS APPROPRIATE, SHALL BE INSPECTED FOR COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS, INCLUDING BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER JOINT DETAIL APPLICATION.

Sanford Underground Research Facility

Yates Skip Modifications

Lead, South Dakota

SHEET TITLE:

STRUCTURAL NOTES, IBC TABLES, MATERIALS LEGEND & ABBREVIATIONS

DRAWN BY:

CA

DATE:

6.16.2015

PROJECT NO:

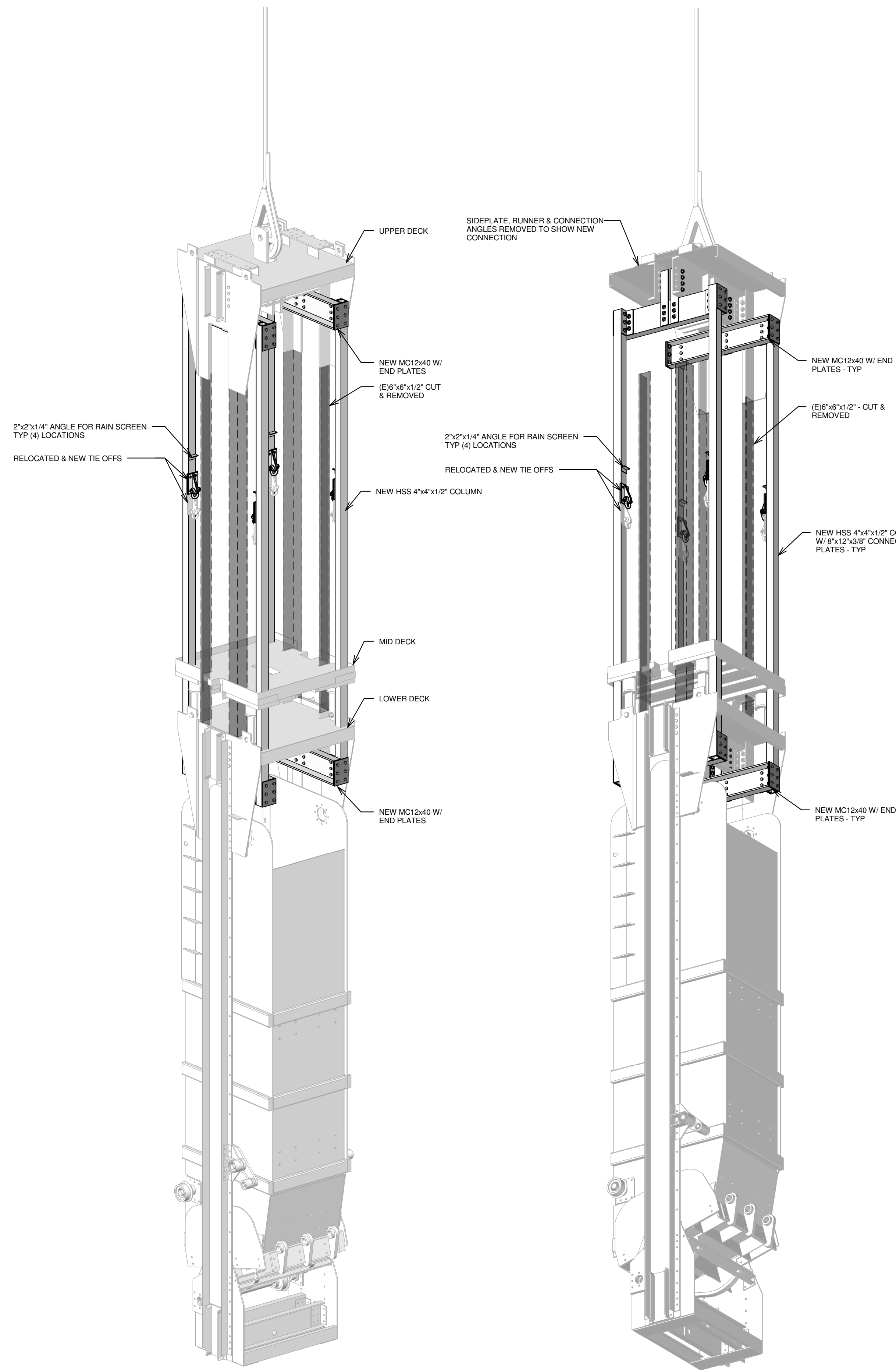
2015-065

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Albertson Engineering Inc.

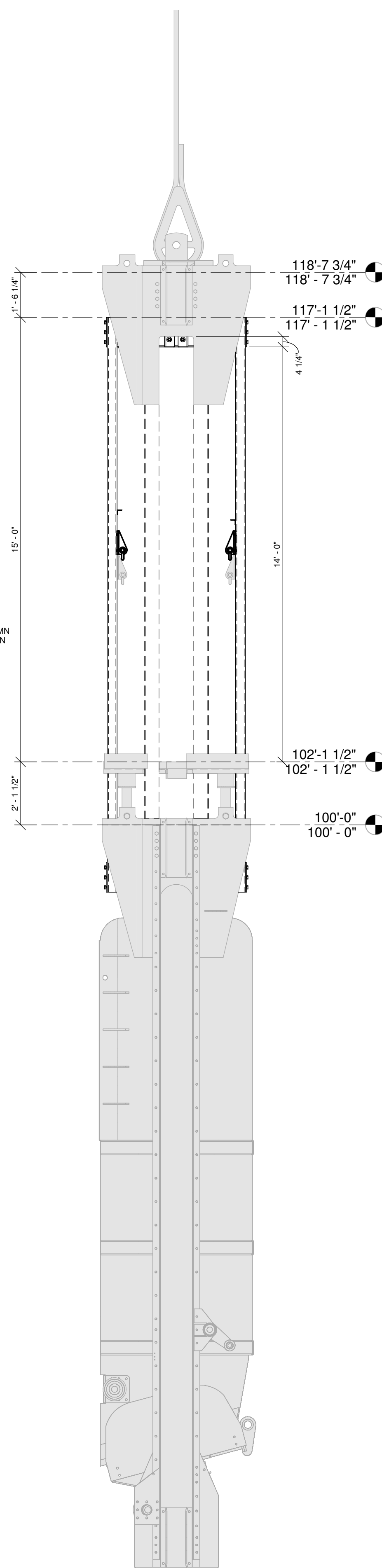
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(E) SKIP MODIFICATIONS

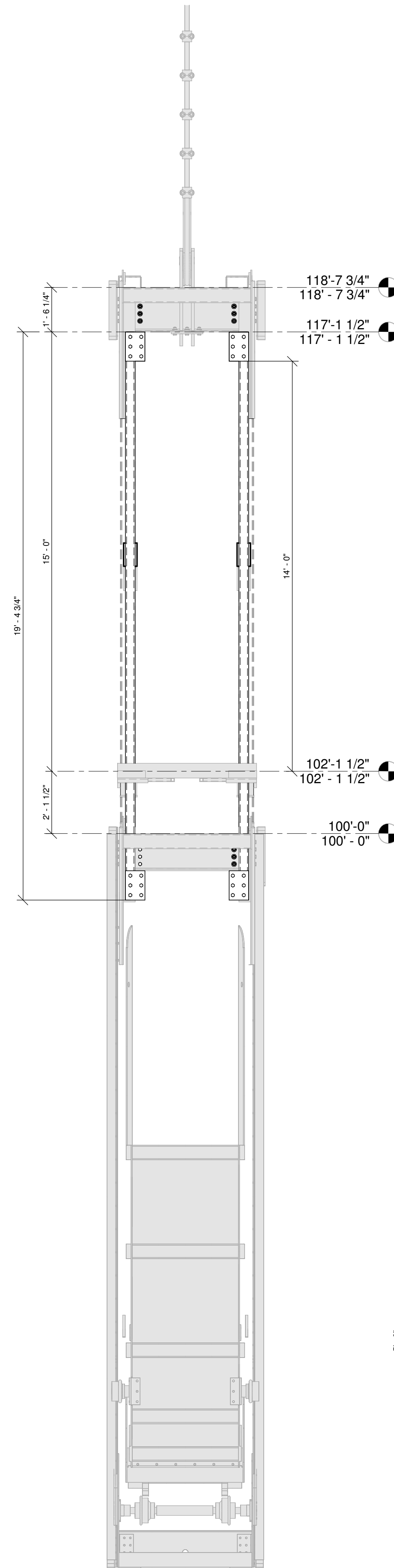


ISOMETRIC 1

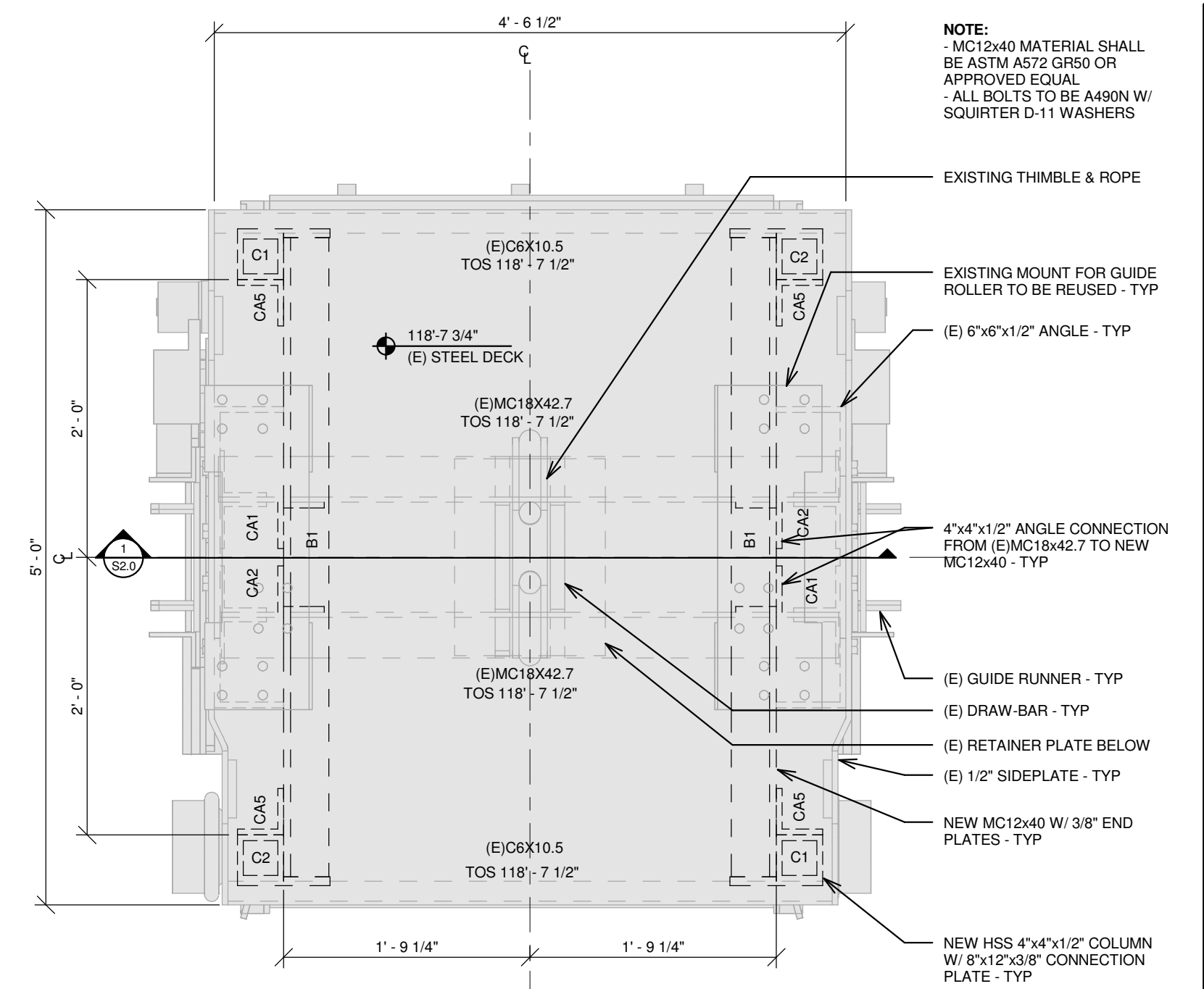
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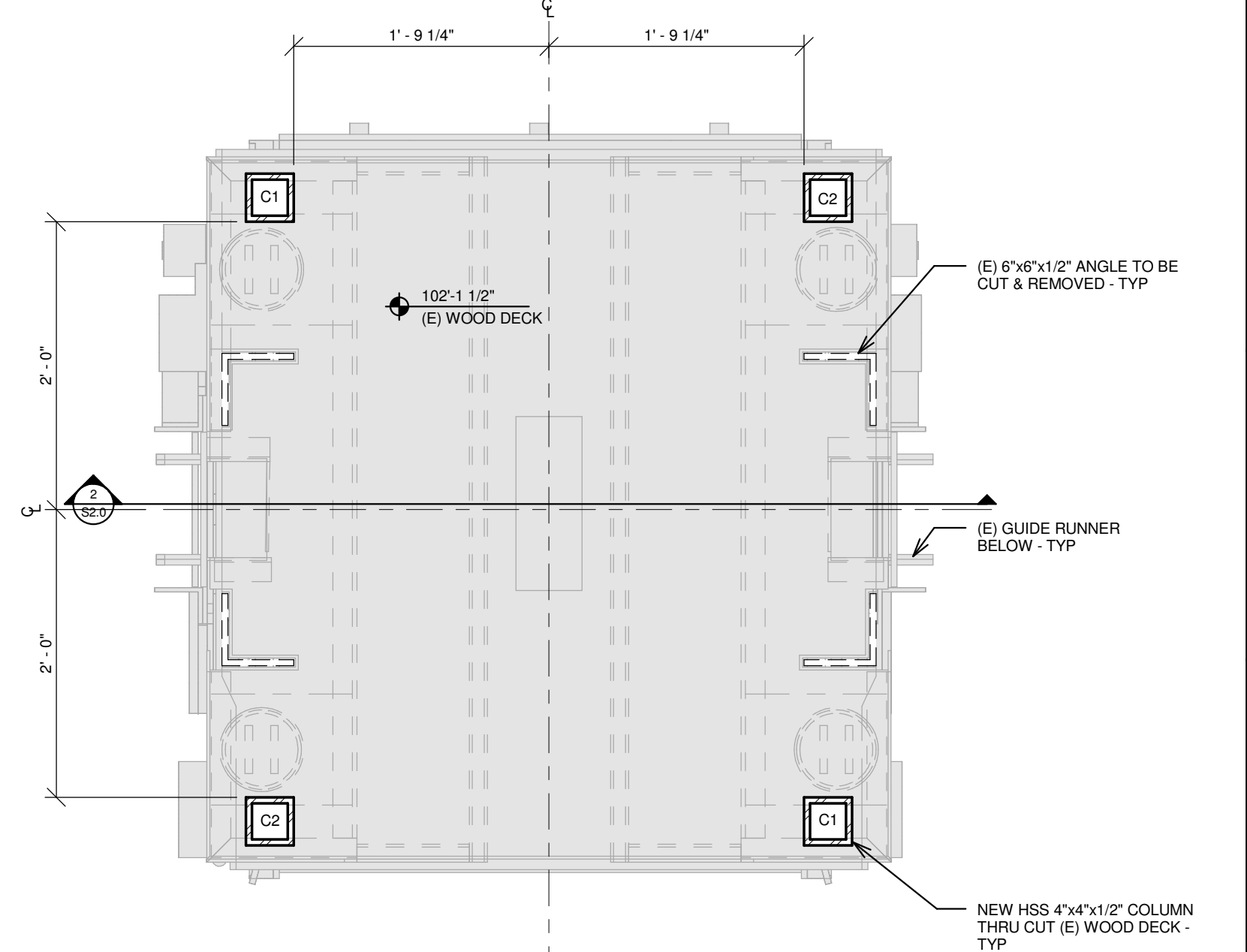
South
3/8" = 1'-0"



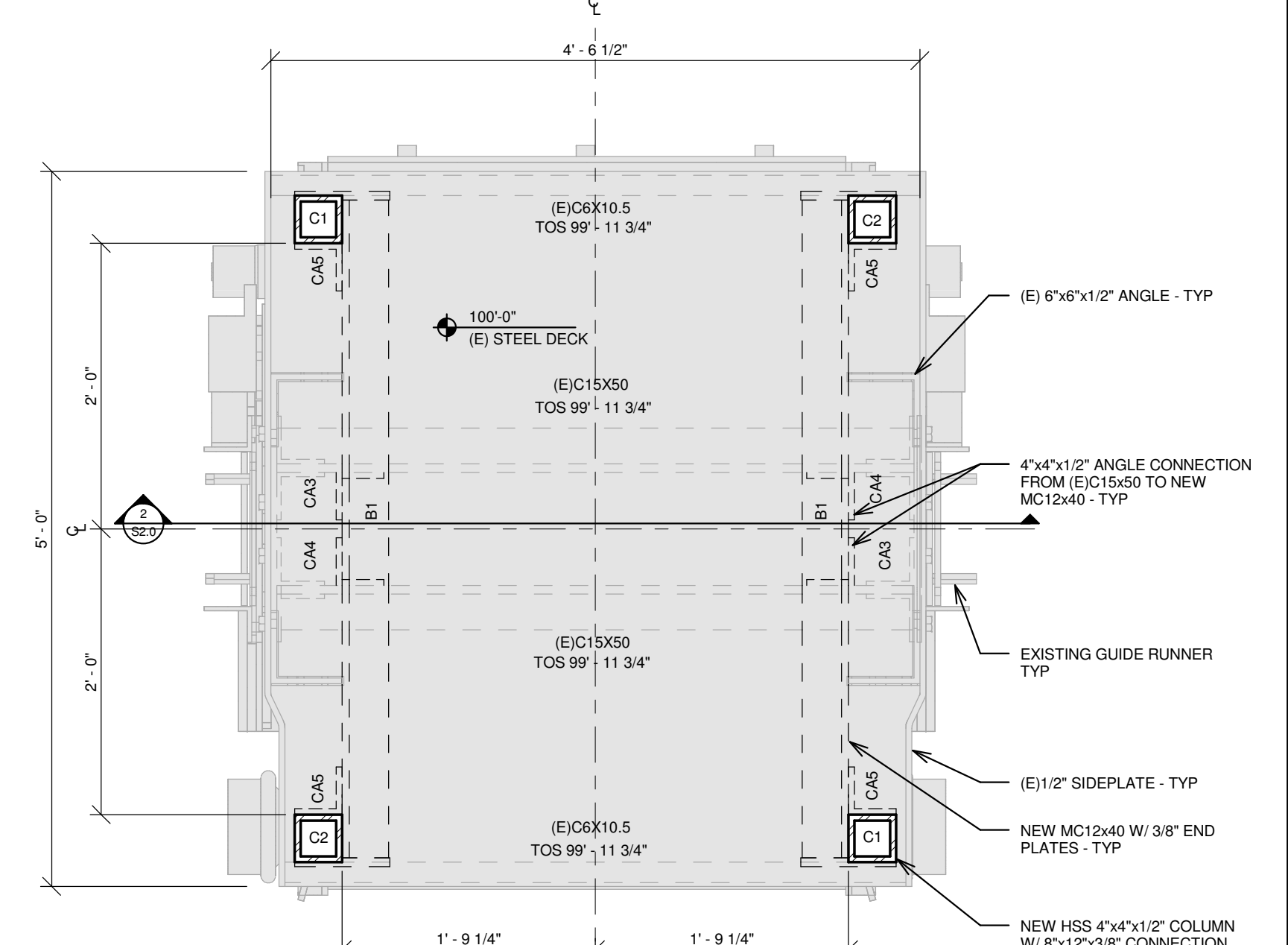
West
3/8" = 1'-0"



UPPER DECK FRAMING PLAN
1" = 1'-0"

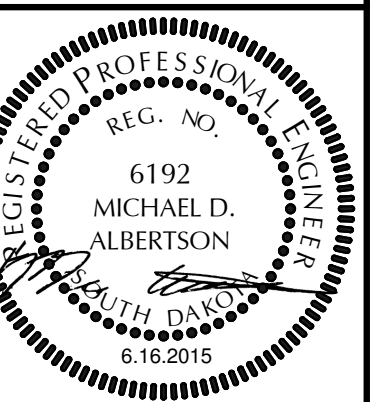


MID DECK FRAMING PLAN
1" = 1'-0"

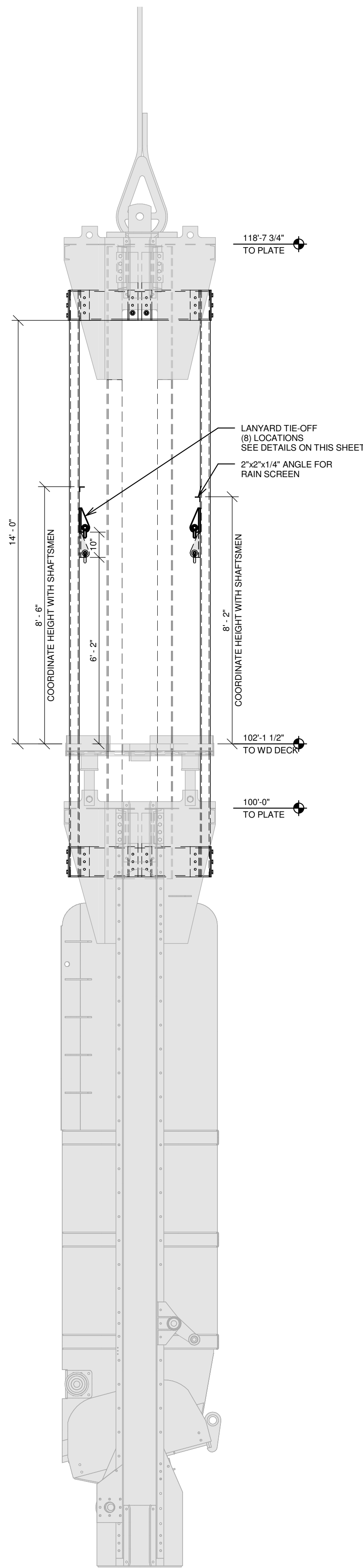


LOWER DECK FRAMING PLAN
1" = 1'-0"

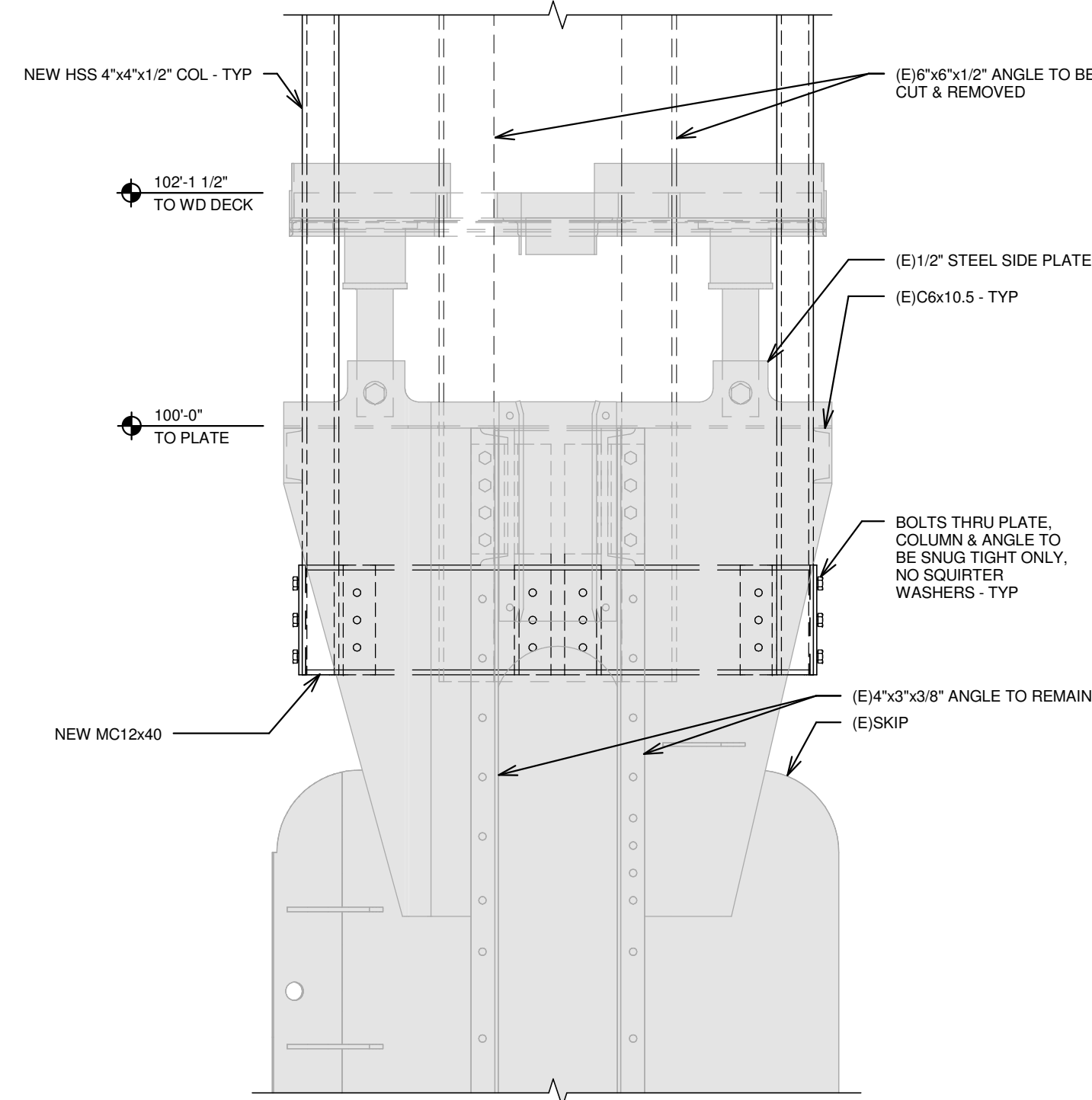
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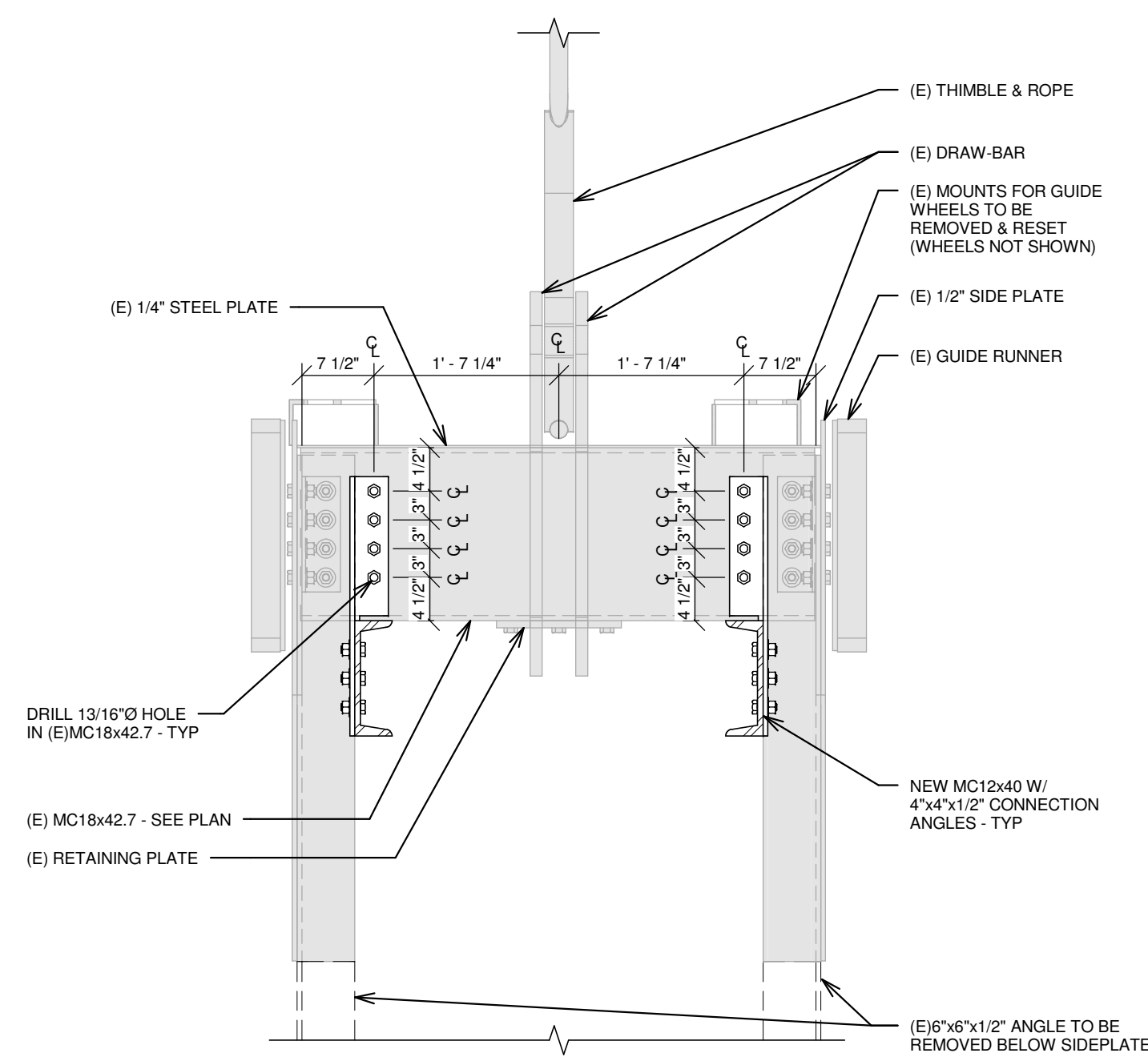
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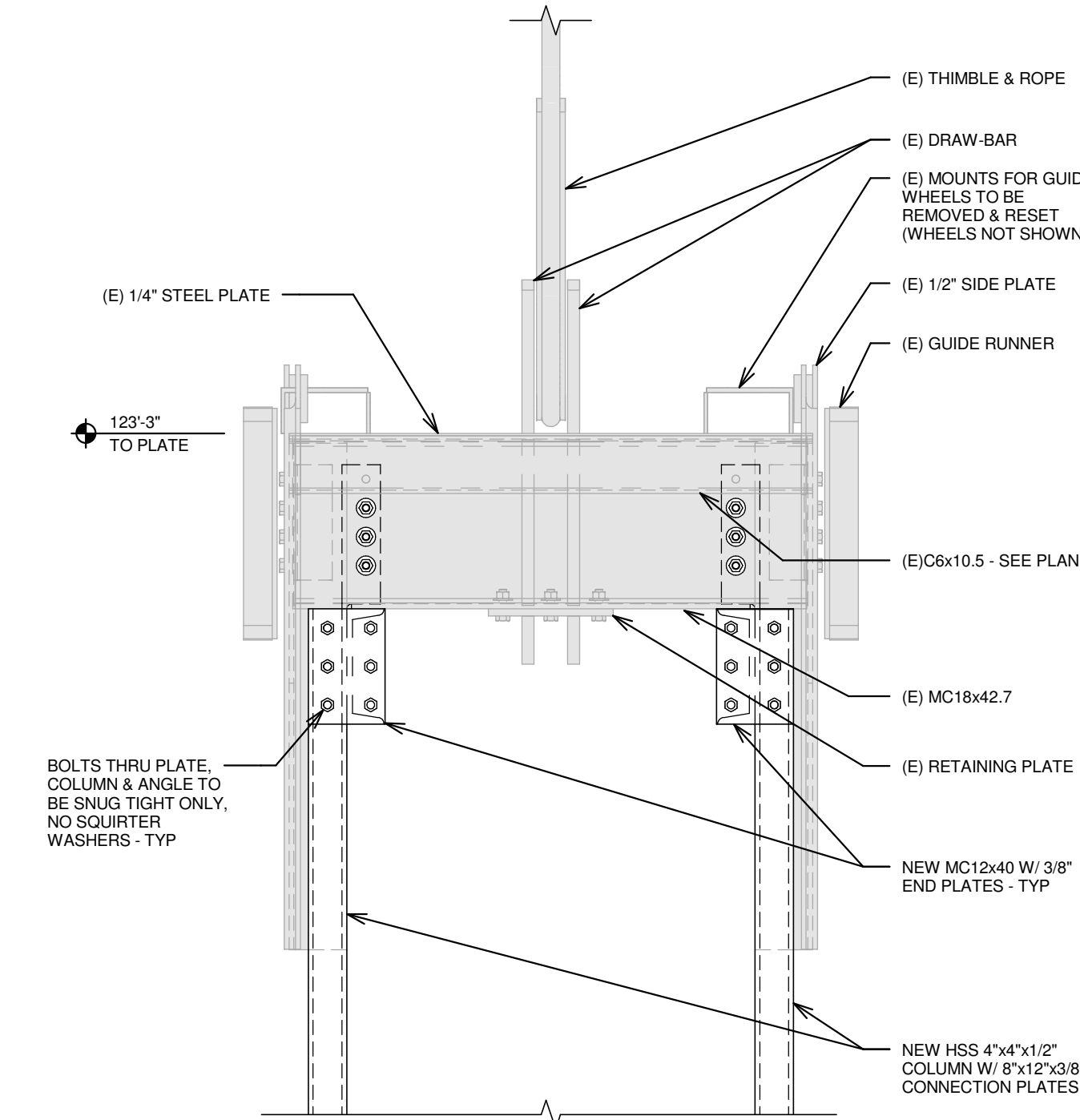
OVERALL SKIP ELEVATION
3/8" = 1'-0"



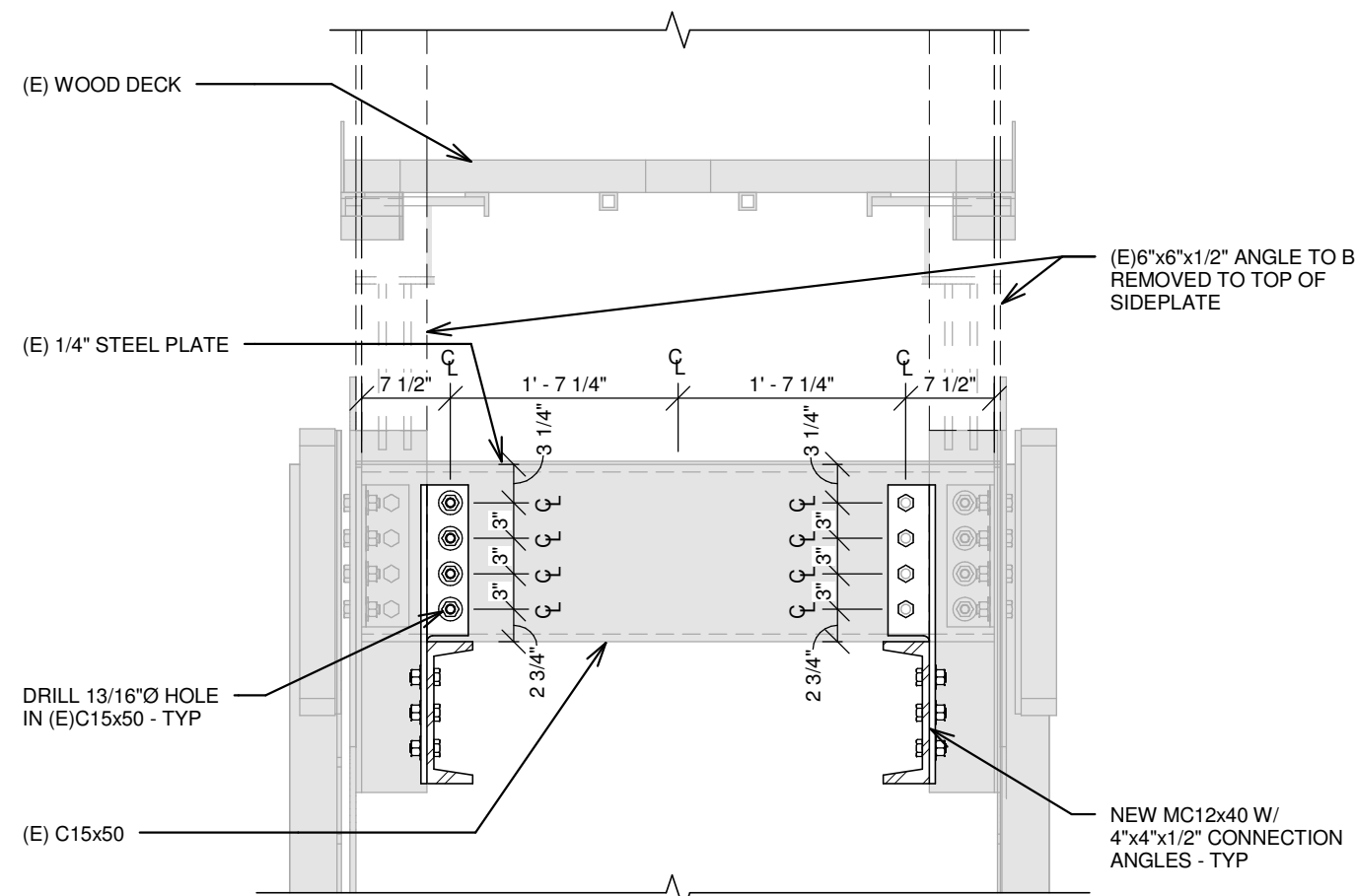
SIDE ELEVATION - YATES SKIP - LOWER DECK
3/4" = 1'-0"



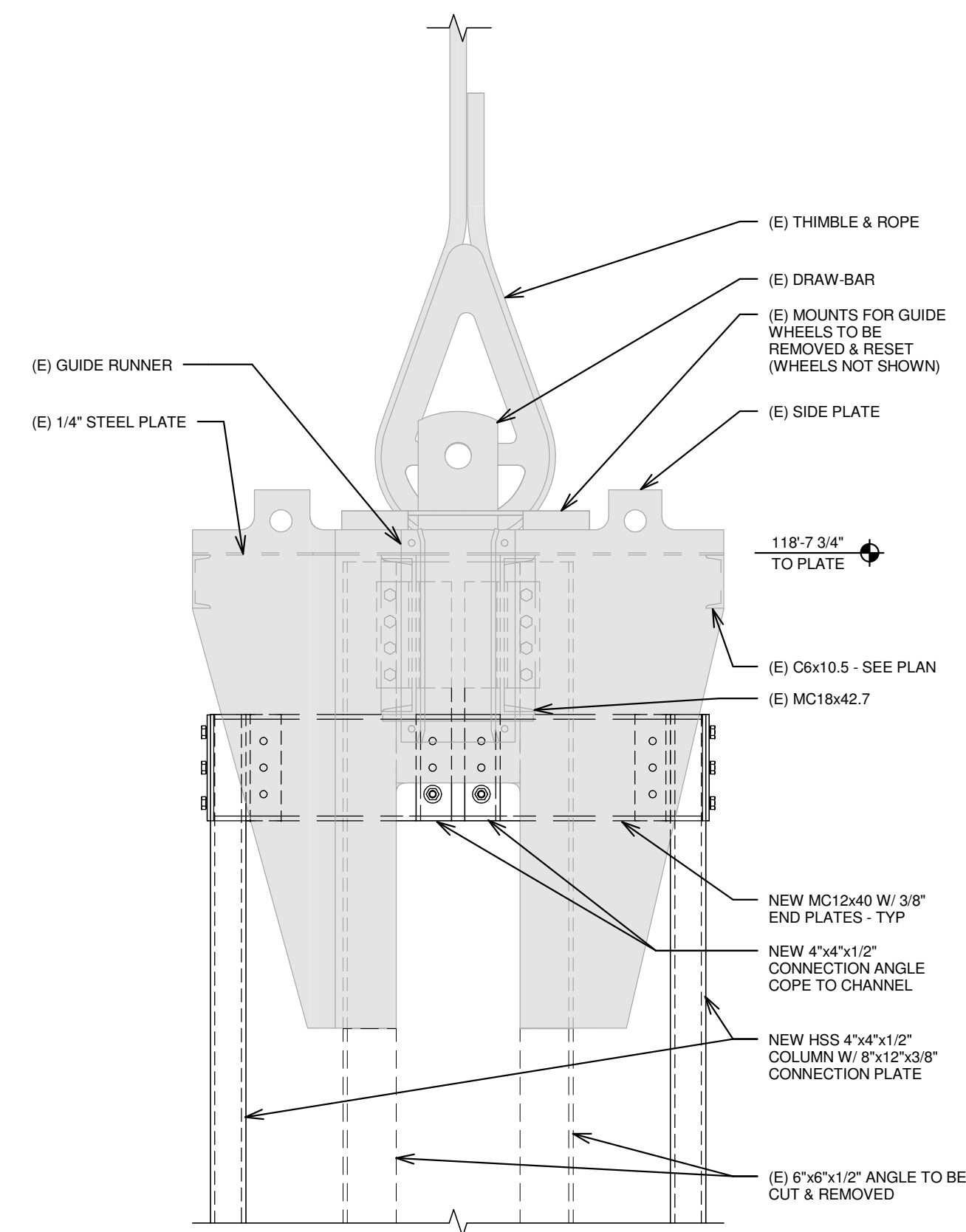
Section 1
3/4" = 1'-0"



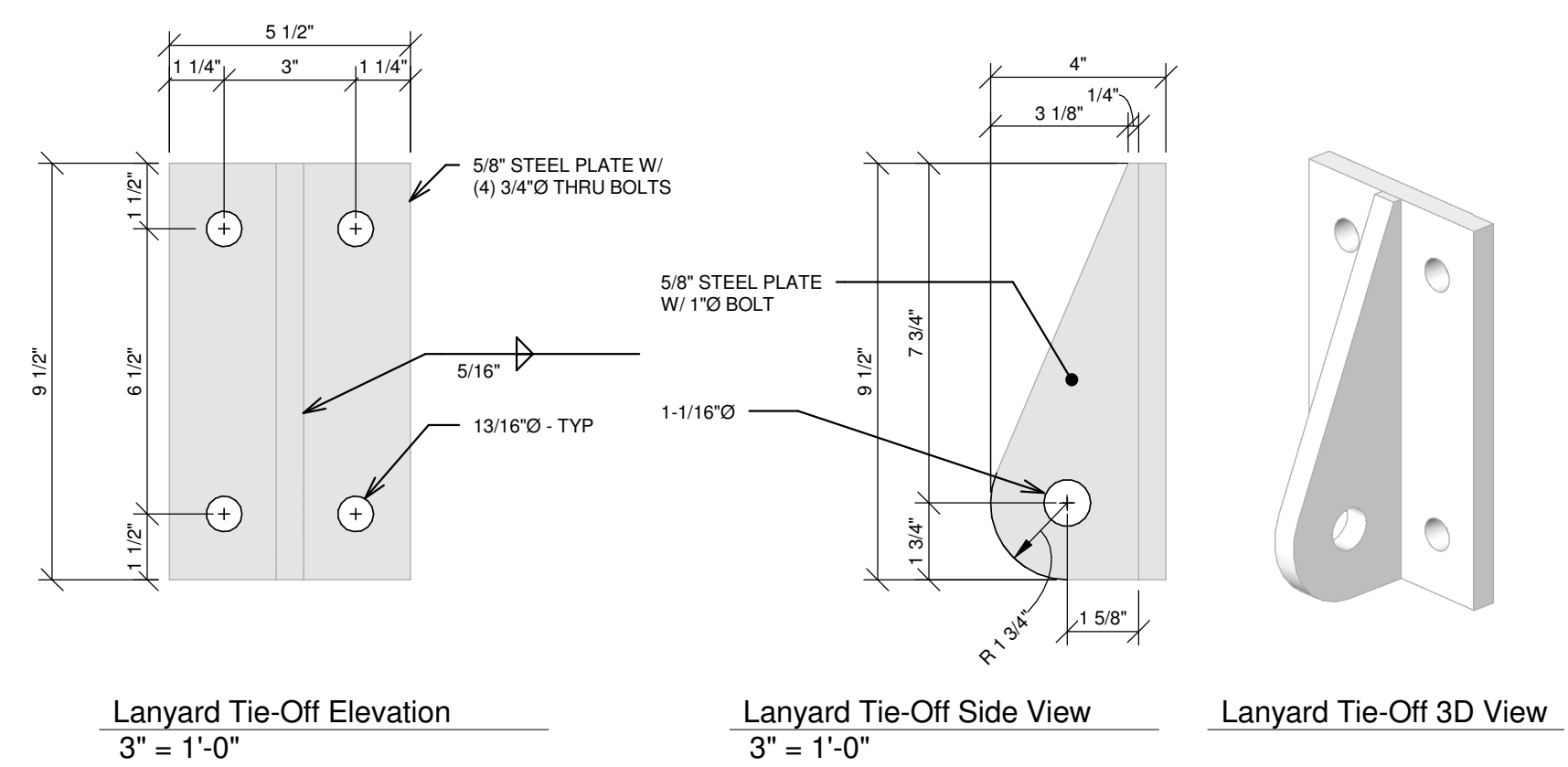
FRONT ELEVATION - YATES SKIP - UPPER DECK
3/4" = 1'-0"



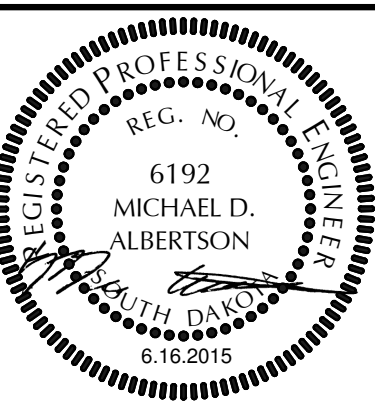
Section 2
3/4" = 1'-0"



SIDE ELEVATION - YATES SKIP - UPPER DECK
3/4" = 1'-0"



(E) SKIP MODIFICATIONS



NO.	DATE	REVISIONS	DATE

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