

ADDENDUM

December 21, 2023

ADDENDUM #1

24C3, Warehouse Walk-in Freezer and Refrigerator

DUE DATE: Prior to and no later than 10:00 A.M., Thursday, December 28, 2023 at
<https://secure.procurenow.com/portal/fcps>

This addendum is being issued to provide additions, corrections, clarifications and answers to certain questions raised referencing the original proposal package and any resultant contract for the above bid.

- 1) Page 24, Section I, 2. Turnkey Scope of Service, #c. is changed to read as follows:
 - c. The bidder shall furnish two (2) evaporators and two (2) condenser units for the refrigerator. The bidder shall furnish three (3) condensers with two (2) evaporators per condenser for the freezer. The bidder will shall provide technical information on the size and weight of any units to be installed on the roof. The bidder shall also provide the type and size and number of penetrations needed through the roof necessary for the connection and operation of their equipment.
- 2) Page 25, Section I, 2. Turnkey Scope of Service, #g. is changed to read as follows:
 - g. The proposed walk-in refrigerators and walk-in freezers will have a total of (2) 96"X120" ~~sliding~~ high speed electric roll up doors. The contractor shall furnish plastic curtains for the two 96x"x120" doors that to keep cold from escaping. One door on the front of the cooler and one on the end of the freezer box facing overhead doors in the warehouse. There will be a total of (2) 36"X84" walk in doors, one each on the front side of the cooler and freezer units.
- 3) Page 25, Section I, 2. Turnkey Scope of Service, #h. is changed to read as follows:
 - h. The proposed walk-in refrigerator will be 39'X 30'. The freezer is 39' X 100'. The proposed flooring in the Freezer box will support shelves 18' high holding frozen product at approximately 800-1000 pounds per skid. The proposed equipment shall consist of continues panels.
- 4) Page 25, Section I, 2. Turnkey Scope of Service, #h. is changed to read as follows:
 - j. The proposed walk-in freezer and walk-in refrigerator will need to shall be built on a raised insulated self-contained floor as part of the Walk-in Refrigerator and Walk-in Freezer assembly. The floor shall have 12" of stone and minimum 5" of concrete. The bidder shall be responsible for the excavation of the floor to meet these specifications. provide appropriate access ramps on all raised floor doors in the freezer sections.
- 5) Page 1, Cover Page, is changed to read as follows:

Bonds Required: ~~NO~~ YES
- 6) This Addendum includes the following attachments:
 - a) Pre-Bid Attendance Roster (1 page)
 - b) Pre-Bid Meeting Minutes (2 Pages)

- c) Warehouse Sketch (1 page)
- d) Complete Structural Drawings (20 pages)

Thank you for your interest in bidding with Frederick County Public Schools.

Sincerely,

David Guzman

David Guzman
Purchasing Agent

DG/sg

cc: RFP File

**Frederick County Public Schools
Purchasing Department
PRE-BID MEETING ATTENDANCE ROSTER**

BID: 24C3, Warehouse Walk-in Freezer and Refrigerator

MEETING DATE/TIME: December 14, 2023 @ 10:00 A.M.

[illegible]

PAGE ____ OF ____

Pre-Bid - 24C3 Warehouse Walk-in Freezer Refrigerator

Meeting Time 10 AM

- Attendance – name and representing company

Meeting format

- 1) Purchasing (hold questions until complete)
- 2) Scope of Work - Contract Admin

Cover Page:

- Contract Manager: David Guzman
- Contract Admin: Gary Barkdoll (Project Manager) and Paul Lebo (Chief Operational Officer)
- Questions due on 12/22/2023
- Bid due on 12/28/2023
- Tentative Award date is: 1/24/2024

Taxes – FCPS does pay federal, state, sale, and/or municipal taxes from which the board of education of Frederick County is exempt from.

Section I:

SCOPE:

The intent of this solicitation is to establish a contract with a qualified contractor(s) to furnish all labor, supervision, materials, and any incidentals necessary for one (1) walk-in freezer and one (1) walk-in refrigerator for a complete and finished project for Frederick County Public Schools. This bid will be for an installation at the new FCPS Warehouse which never had an existing unit. The qualified contractor will also furnish labor and parts for the warranty life of the units and cooler boxes.

For information pertinent to the bidding process, the attention of all contractors, subcontractors and material supply bidders are directed to the:

- Invitation to Bid (Page 3)
- Instruction to Bidders (AIA Document A701) (Pages 14 -23)
- Supplemental Instructions to Bidders (Supplement to AIA A701) (Pages 24 - 42)
- AIA Document A101 - 2017 Standard Form of Agreement Between Owner and Contractor (Pages 55- 76)
- AIA Document A201 - 2007 General Conditions of the Contract for Construction (Pages 77 -142)
- Bid Bond - AIA Document A310 – 2010 (Pages 45-48)

Bonding:

Performance and Payment Bonds

Prevailing wages:

Davis Beacon wage scale included in bid

The proposal will include the following forms completed:

- Signature Page
- Statutory Affidavit and Non-Collusion Certification (Pages 49 – 50)
- Certification of Compliance (Pages 51-52)
- Current W-9
- Vendor Conflict of Interest Disclosure Form (Page 53)
- Proprietary Information Form (Page 54)

- Schedule of Values
- Supporting documents
- Form of proposal (Page 43-44)
- Bid Bond
- Technical drawings for equipment

Inclement Weather:

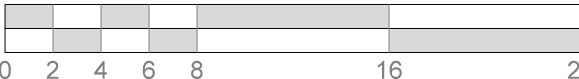
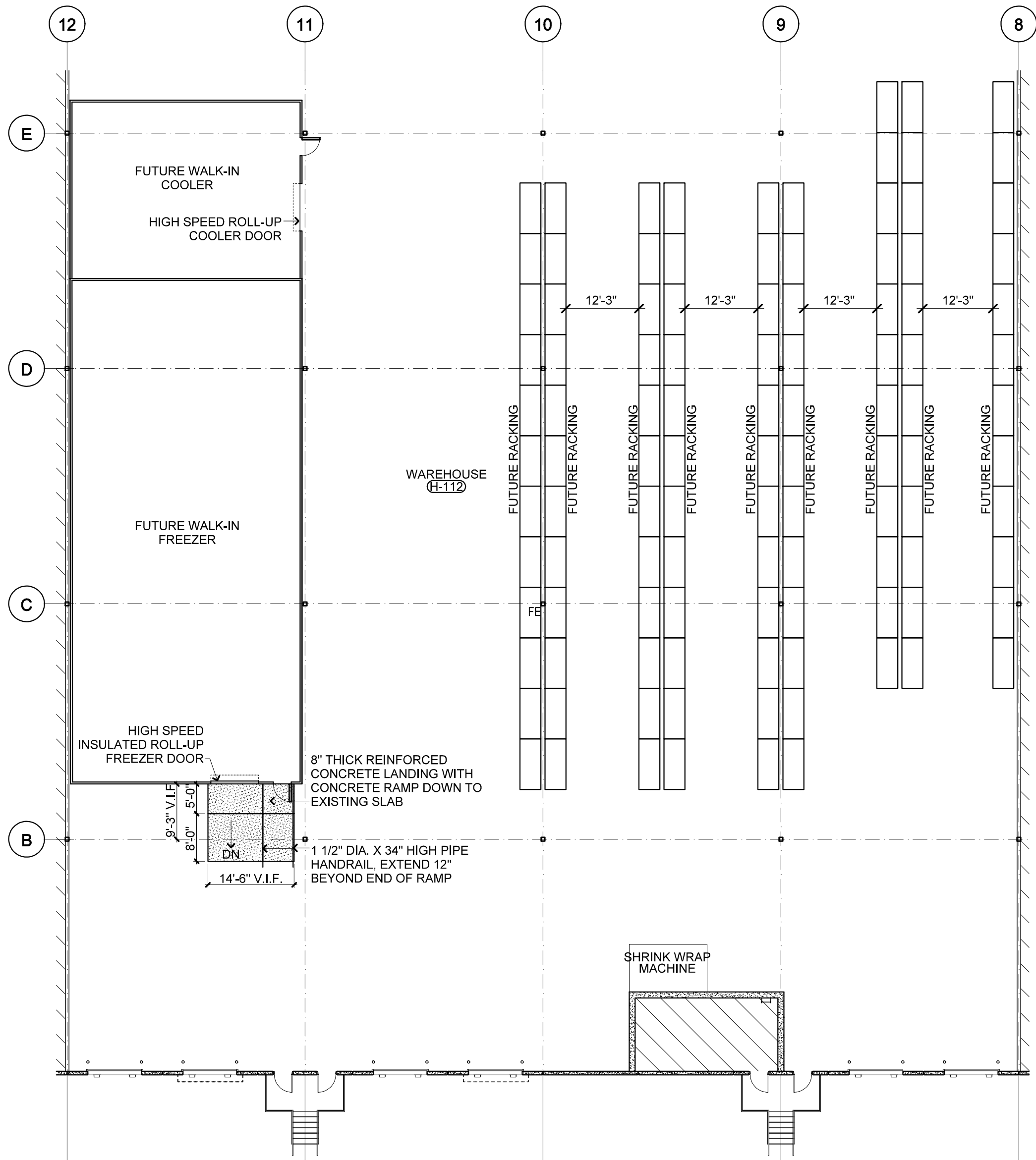
In the event of inclement weather on the date when the bids are scheduled to be opened and the FCPS administrative offices are closed, bids will be opened on the next business day at the same time as previously scheduled. Often when schools are closed the administrative offices are open – when in doubt please call the purchasing department.

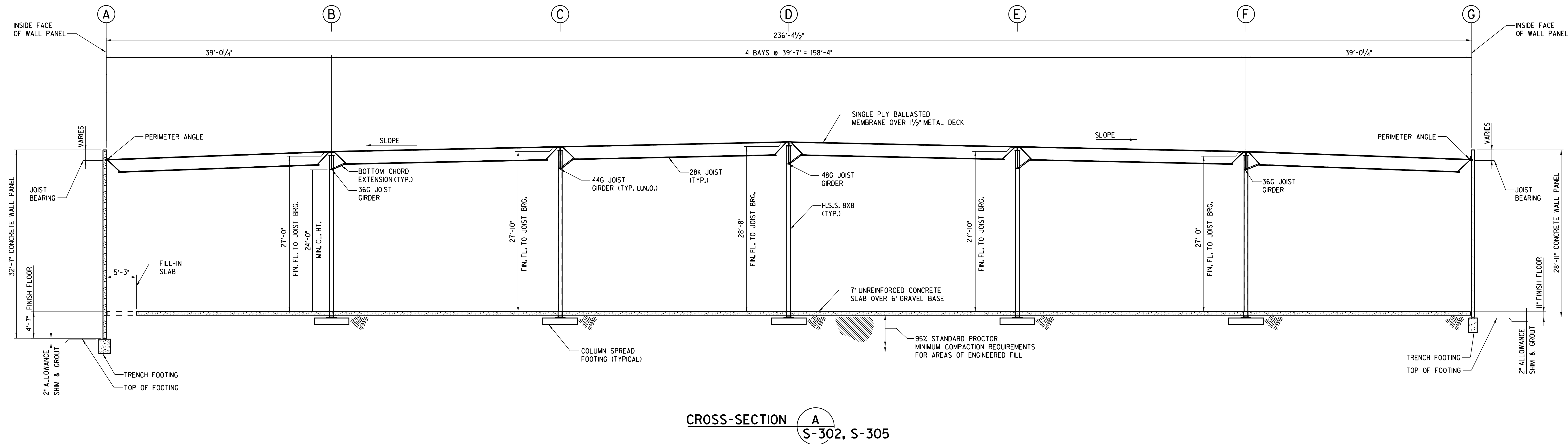
Laws and Regulations:

The vendor will comply with all Federal, State, and local laws, ordinances and regulations pertaining to work under their charge. If the vendor performs any work which it knows or should know to be contrary to such laws, ordinance, and regulations and without such notices to FCPS they shall bear all costs arising therefrom.

Vendor performance Evaluation:

The contract administrator will confer periodically to discuss status of the contract. Any Issues of noncompliance will be brought to the attention of the contract manager as they occur.





GENERAL NOTES

ELEVATION DATUM

SEE ARCHITECTURAL DRAWINGS OR SITE PLAN FOR FINISH FLOOR ELEVATIONS.

DESIGN SPECIFICATIONS

2000 INTERNATIONAL BUILDING CODE WITH 2001 SUPPLEMENT.

EARTHWORK

EARTHWORK OPERATIONS SHALL BE PERFORMED UNDER THE DIRECTION OF A PROFESSIONAL TESTING AGENCY TO ASSURE COMPLIANCE WITH THE RECOMMENDATIONS OF THE SOILS REPORT BY SPECIALIZED ENGINEERING, DATED APRIL 2003.

FOOTINGS

1. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR ENGINEERED FILL.
2. HORIZONTAL REINFORCING IN FOOTINGS SHALL BE CONTINUOUS AT CORNERS AND INTERSECTIONS. CORNER BARS SHALL BE PROVIDED TO MATCH HORIZONTAL STEEL. REINFORCING STEEL SHALL BE LAPPED AS FOLLOWS WHERE SPLICES ARE REQUIRED:

BAR SIZE	LAP DIMENSION
#4	1'-6"
#5	1'-9"
#6	2'-0"

CONCRETE

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 305 SPECIFICATIONS FOR HOT WEATHER CONCRETE, AND ACI 306 SPECIFICATIONS FOR COLD WEATHER CONCRETE, WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:

- CONCRETE SHALL DEVELOP THE FOLLOWING 28-DAY MINIMUM COMPRESSIVE STRENGTH:

FOUNDATION	3,000 PSI
FLOOR SLAB	3,500 PSI
WALL PANELS	3,500 PSI U.N.O.
- AIR CONTENT FOR WALL PANELS SHALL BE NATURAL AMOUNTS NOT TO EXCEED 4%.
- CHLORIDE-BASED ADMIXTURES ARE PROHIBITED IN ALL REINFORCED CONCRETE.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, A616, OR A617, GRADE 60.
- CONCRETE EXPANSION ANCHORS, SIZE AS PER PLAN, SHALL DEVELOP THE FOLLOWING MINIMUM WORKING LOAD CAPACITIES IN 4,000 PSI CONCRETE:

DIA.	TENSION	SHEAR
1/2"	1,450*	1,787*
3/8"	2,091*	2,973*
1/2"	2,670*	3,765*

FASTENERS THAT MEET THESE REQUIREMENTS ARE "POWER-STUD" BY THE POWERS RAWL DIVISION OF POWER FASTENING, INC. AND "KWIK-BOLT II" BY HILTI, INC. ANCHORS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS WITH PARTICULAR ATTENTION TO PROPER TORQUE.
IF SPECIFIC ANCHORS ARE SHOWN ON DRAWINGS, THEY MUST BE USED UNLESS AN ALTERNATE IS APPROVED BY THE ENGINEER.

ROOF DRAINAGE

PROVISION SHALL BE MADE FOR SECONDARY ROOF DRAINAGE BY MEANS OF OVERFLOW SCUPPERS IN WALLS OR ADDITIONAL INTERIOR DRAINS. (SEE MECHANICAL DRAWINGS.) HEIGHT OF SECONDARY DRAINS ABOVE PRIMARY DRAINS SHALL BE SUCH THAT THE WEIGHT OF PONDED WATER ON THE ROOF DOES NOT EXCEED THE DESIGN LIVE LOAD.

STRUCTURAL STEEL

- FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AND CURRENT OSHA STANDARDS.
- WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992. STRUCTURAL TUBES SHALL CONFORM TO ASTM A500 GRADE B. ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A36.
- BOLTS, UNLESS OTHERWISE SHOWN, SHALL CONFORM TO ASTM A325-N, SIZE AS PER PLAN.
- ANCHOR BOLTS, UNLESS OTHERWISE SHOWN, SHALL CONFORM TO ASTM F1554 GRADE 36.
- SPLICING OF STRUCTURAL STEEL IS PROHIBITED EXCEPT AS DETAILED.
- ALL STRUCTURAL AND MISCELLANEOUS STEEL ITEMS SHALL RECEIVE ONE COAT OF "IRONCLAD RETARDANT RUST INHIBITIVE PAINT 163" (BENJAMIN MOORE) OR APPROVED EQUAL UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS. ALL STEEL SURFACES EMBEDDED IN CONCRETE SHALL NOT BE PAINTED. PREPARATION OF STEEL SURFACES SHALL MEET THE REQUIREMENTS OF THE STEEL STRUCTURES PAINTING COUNCIL (SSPC). THESE INCLUDE THE REMOVAL OF GREASE AND OIL BY SOLVENT CLEANING (SSPC-SP1) AND THE REMOVAL OF MILL SCALE, RUST, WELD FLUX AND SLAG BY HAND TOOL CLEANING (SSPC-SP2). PRIMER SHALL BE APPLIED AT THE MANUFACTURER'S RECOMMENDED RATE BUT NOT LESS THAN ONE GALLON PER 400 SQ. FT. THEREBY DEPOSITING A DRY FILM THICKNESS OF NOT LESS THAN 1.5 MILS. ANY SCARRED AREAS SHALL BE TOUCHED UP WITH THE SAME PAINT AFTER ERECTION.
- ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS IN ACCORDANCE WITH THE CURRENT EDITION OF THE AWS STRUCTURAL WELDING CODE. WELDING ELECTRODES SHALL BE E70XX.
- ALL ROOF OPENINGS SHALL BE FRAMED WITH STRUCTURAL STEEL, SIZED AS REQUIRED. THE LOCATION AND SIZE OF ROOF OPENINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
- TEMPORARY VERTICAL CROSS BRACING PER AISC (1/2" Ø CABLES) IS REQUIRED ALONG EVERY COLUMN LINE AT EVERY 150' MAX. IF STRUCTURAL STEEL IS ERECTED PRIOR TO PANELS, BRACING IS REQUIRED IN EACH DIRECTION AND SHALL REMAIN IN PLACE UNTIL THE STRUCTURAL STEEL IS CONNECTED TO THE WALL PANELS.

STEEL JOISTS AND JOIST GIRDERS

- THE DESIGN, FABRICATION AND ERECTION OF STEEL JOISTS AND JOIST GIRDERS SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS AND RECOMMENDED CODE OF STANDARD PRACTICE FOR OPEN WEB JOISTS AND JOIST GIRDERS ADOPTED BY THE STEEL JOIST INSTITUTE, AND CURRENT OSHA STANDARDS.
- NO CONSTRUCTION LOADS SHALL BE PLACED ON JOISTS OR JOIST GIRDERS UNTIL BRIDGING IS INSTALLED AND BEARING CONNECTIONS HAVE BEEN BOLTED OR WELDED.
- JOIST BRIDGING BUNDLES SHALL NOT EXCEED 1,000 LBS.

STEEL ROOF DECK

- THE DESIGN, FABRICATION AND ERECTION OF THE STEEL ROOF DECK SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE SDI SPECIFICATIONS AND COMMENTARY FOR STEEL ROOF DECK AND THE SDI DIAPHRAGM DESIGN MANUAL.
- MINIMUM END LAP SHALL BE 3".
- THE STEEL ROOF DECK FUNCTIONS AS A STRUCTURAL ELEMENT IN RESISTING LATERAL LOADS AND PROVIDES OVERALL STABILITY FOR THE BUILDING. THEREFORE THE WALL PANEL ERECTION BRACES SHALL NOT BE REMOVED UNTIL ALL STEEL DECK IS COMPLETELY FASTENED IN PLACE.
- ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS IN ACCORDANCE WITH THE CURRENT EDITION OF THE AWS SPECIFICATIONS FOR WELDED SHEET STEEL AND ITS COMMENTARY. WELDING ELECTRODES SHALL BE E6022, HOBART #1133, 1/2" DIA. WELDING ELECTRODES MEET THIS REQUIREMENT.
- ROOF DECK SHALL RECEIVE ONE COAT OF MANUFACTURER'S STANDARD PRIMER. ALL DECK WELDS SHALL BE PAINTED WITH RUST PROHIBITIVE METAL PRIMER PRIOR TO ROOFING.
- ROOF DECK SHALL BE CONTINUOUS OVER A MINIMUM OF THREE SPANS.
- ROOF DECK BUNDLES SHALL BE PLACED ON JOISTS WITH EXTREME CAUTION. FOLLOWING THE JOIST MANUFACTURER'S RECOMMENDATIONS FOR PROPER PLACEMENT.
- DECKING OR DECK ACCESSORY BUNDLES SHALL NOT EXCEED 4,000 LBS.

DESIGN DATA

ROOF LOAD

LIVE LOAD	30
1 PLY MEMB. (BALLASTED), INSULATION & DECK	16
MECHANICAL ALLOWANCE	5
BAR JOISTS	2
TOTAL TO JOISTS	53 LBS./FT. ²
BEAMS OR JOIST GIRDERS	2
TOTAL TO BEAMS OR JOIST GIRDERS	55 LBS./FT. ²

BUILDING CATEGORY

1 (DRIFTING SNOW IN ADDITION TO UNIFORM LOAD WHERE APPLICABLE)

ROOF SNOW LOAD

P _g = 30 LBS./FT.
P _f = 30 LBS./FT. ² (PER LOCAL AMENDMENT)
C _e = 1.0
I = 1.0
C _t = 1.0

BASIC DESIGN WIND LOAD

V = 90 M.P.H. (3-SECOND GUST)
I _w = 1.0
EXPOSURE C
INTERNAL PRESSURE COEFFICIENT = (+/-) 0.18
COMPONENTS AND CLADDING SHALL BE DESIGNED FOR:
+ = 18.02 LBS./FT.
- = 22.87 LBS./FT.

ALLOWABLE SOIL BEARING

3,000 LBS./FT.²

EARTHQUAKE DESIGN DATA

SEISMIC USE GROUP I
S _{ds} = 0.1984
S _{d1} = 0.1008
SITE CLASS D (UNKNOWN)
BASIC STRUCTURAL SYSTEM - LOADEDBEARING CONCRETE SHEAR WALL
I _b = 1.0
V = 0.0441W
ANALYSIS PROCEDURE - EQUIVALENT LATERAL FORCE PROCEDURE

CLEAR HEIGHT

FINISH FLOOR TO JOIST GIRDER	24'-0" (MIN.)
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BUILDING FLOOR AREA

SLAB ON GRADE	144,041 SQ. FT.
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3	8-22-03	RELEASED FOR CONSTRUCTION
2	7-25-03	RELEASED FOR PERMIT
1	4-17-03	RELEASED FOR SITE IMPROVEMENT

REVISIONS	
	MORGAN-KELLER, INC.
	Design / Build Construction Services
	70 Thomas Johnson Drive • Frederick, Maryland 21702
	301-663-0626

Architect:	NuTec Design associates, inc.
Structural:	CON/STEEL TILT-UP SYSTEMS
	LJB Inc. • 3100 Research Blvd. • P.O. Box 20246
	Dayton, OH 45420-0246
	(937) 259-5000 tel • (937) 259-5100 fax • ljb@ljb.com

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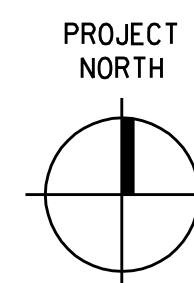
FREDERICK COUNTY, MARYLAND

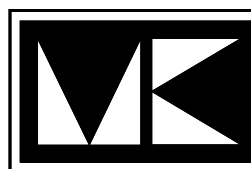



BUILDING THREE GENERAL STRUCTURAL DATA

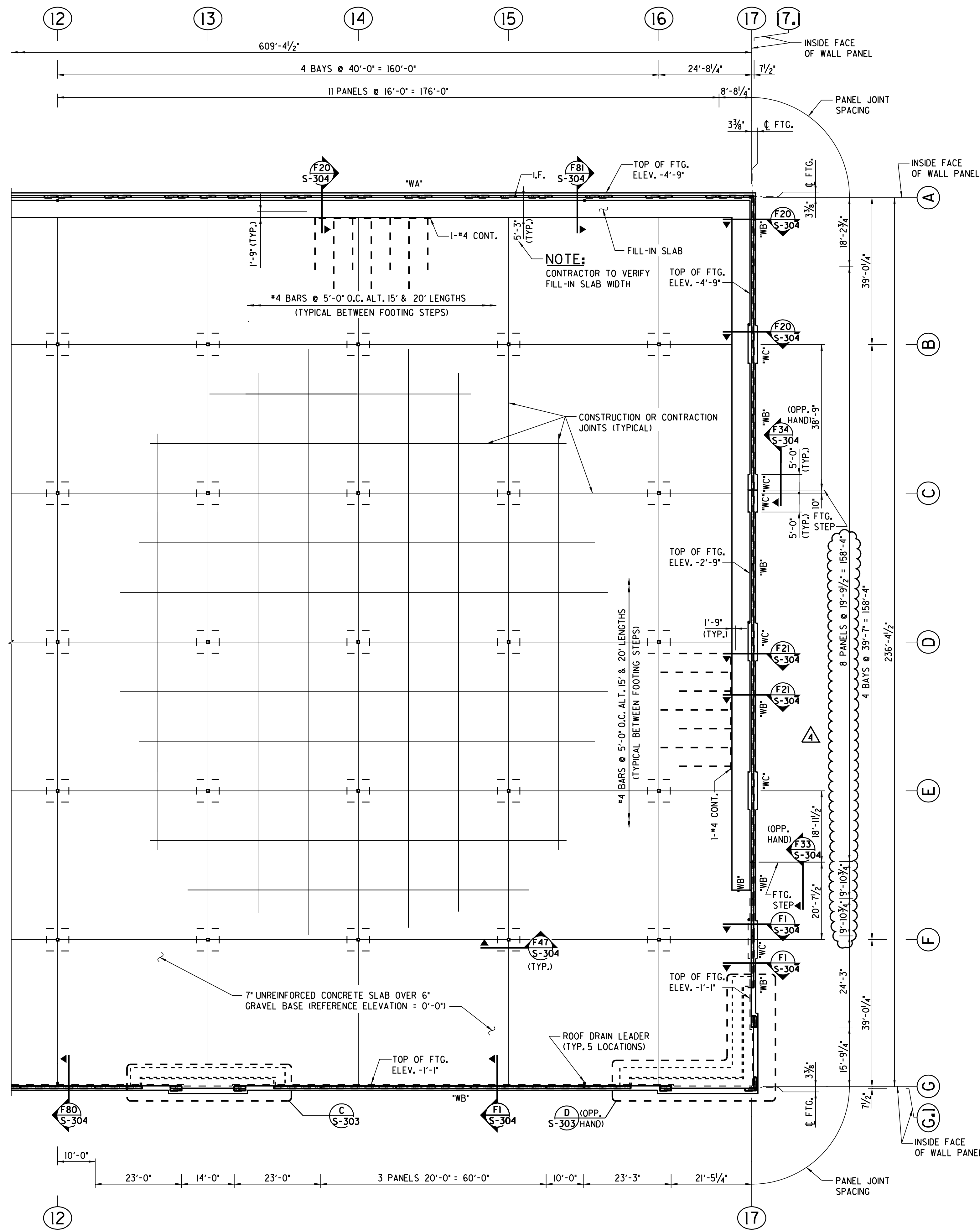
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CHECKED BY JJS	20499
CONTACT	SHEET NO.
DATE APR. 03	S-301

BUILDING THREE FOUNDATION PLAN

NOTE: MAXIMUM CONTROL JOINT SPACING FOR SLAB-ON GRADE IS 17'-6"

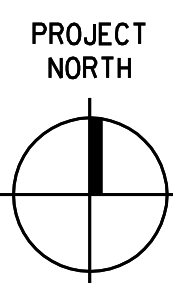
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1	4-17-03	RELEASED FOR SITE IMPROVEMENT										
REVISIONS												
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Architect:	 NuTex Design associates, inc.											
Structural:	 CON/STEEL® TILT-UP SYSTEMS											
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<div>WEDGEWOOD IV BUSINESS CENTER</div>												
FREDERICK COUNTY,		MARYLAND										
<div>BUILDING THREE FOUNDATION PLAN</div>												
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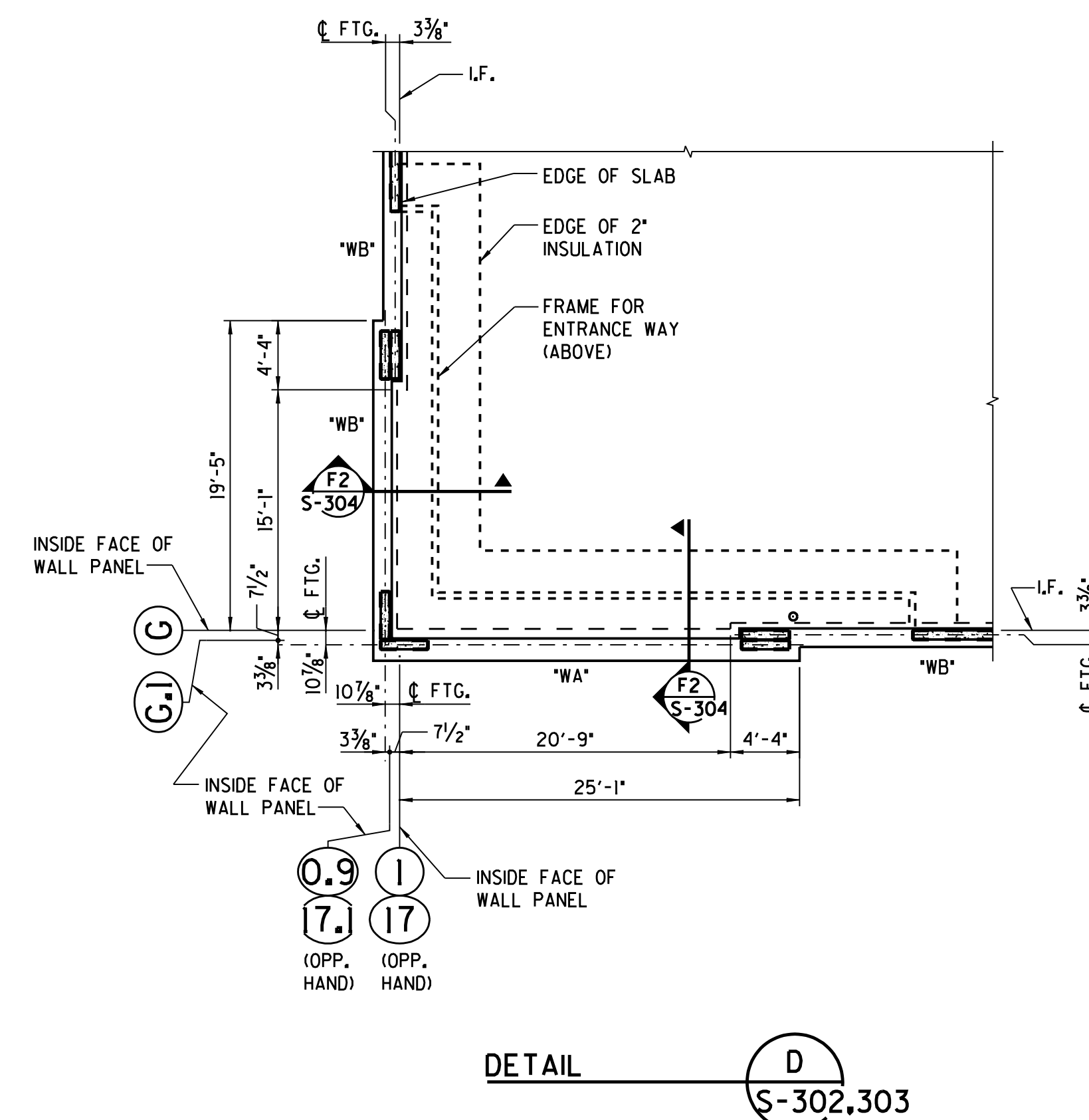
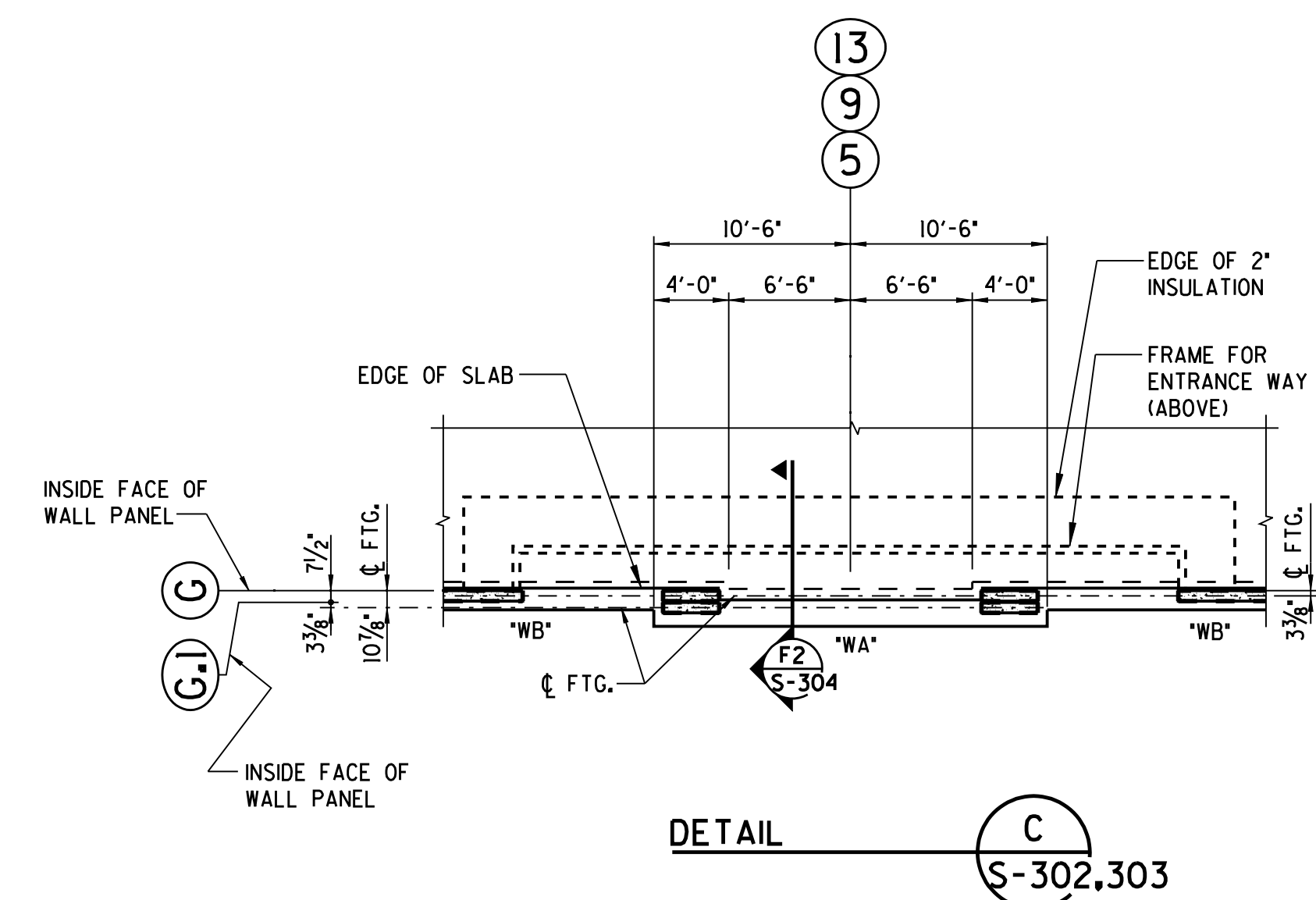


BUILDING THREE FOUNDATION PLAN

NOTE: MAXIMUM CONTROL JOINT SPACING FOR SLAB-ON GRADE IS 17'-6"



FOOTING SCHEDULE				
MARK	WIDTH (W)	LENGTH (L)	DEPTH (D)	REINFORCING
A	6'-6" SO.	1'-3"	7'-5"	7-#5 EACH WAY
B	6'-0" SO.	1'-2"	7'-5"	7-#5 EACH WAY
WA	2'-0"	CONT.	2'-6"	3-#5 CONTINUOUS TOP & BOTTOM
WB	1'-6"	CONT.	2'-6"	2-#5 CONTINUOUS TOP & BOTTOM
WC	2'-6"	10'-0"	2'-6"	2-#5 CONTINUOUS TOP & BOTTOM W/2-#5x9'-6" ADDITIONAL TOP & BOTTOM



4	11-13-03	REVISED PANEL E10
3	8-22-03	RELEASED FOR CONSTRUCTION
2	7-25-03	RELEASED FOR PERMIT
1	4-17-03	RELEASED FOR SITE IMPROVEMENT

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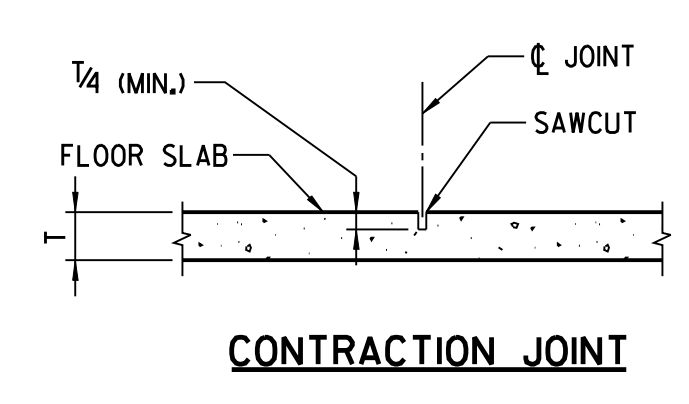
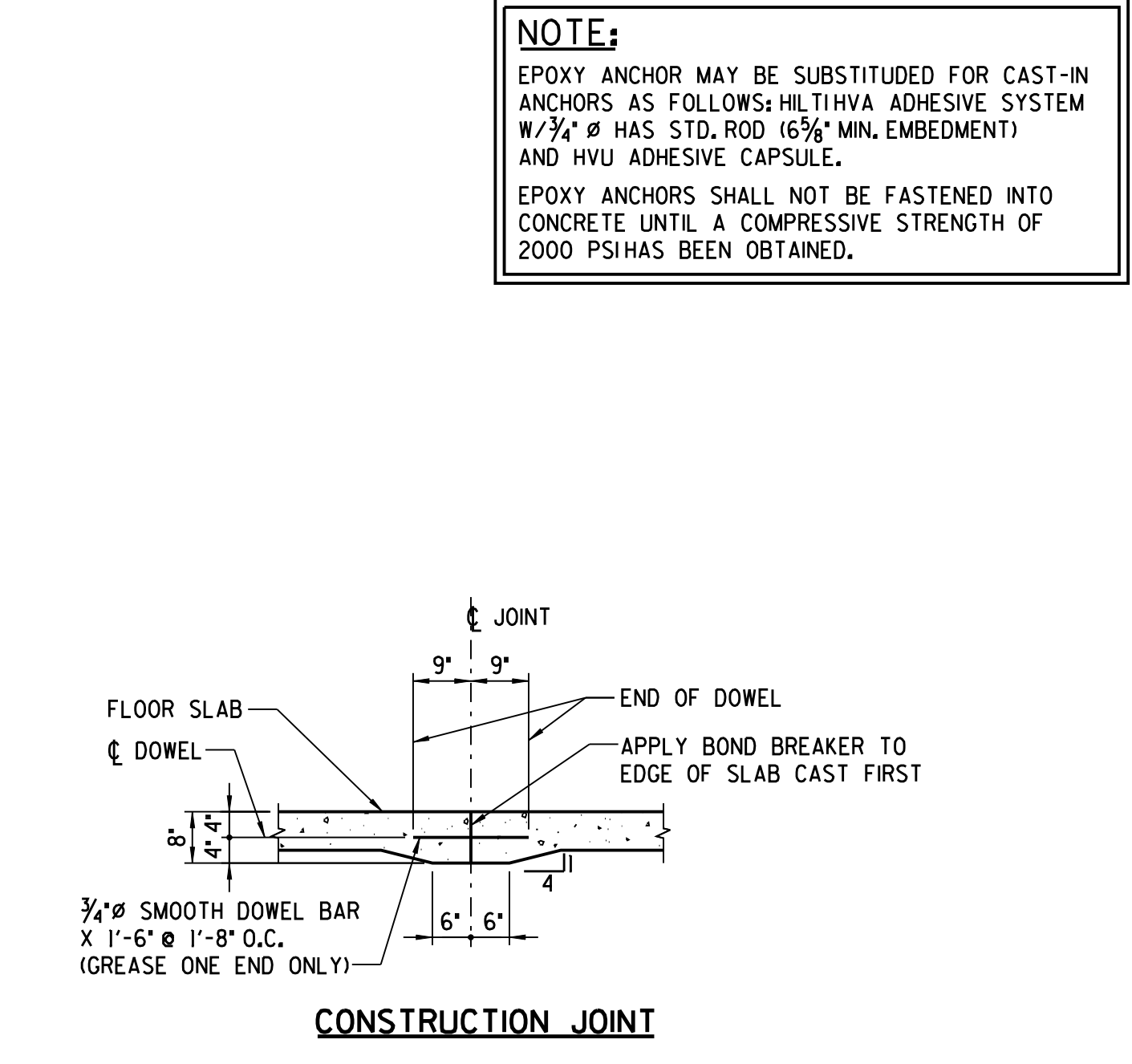
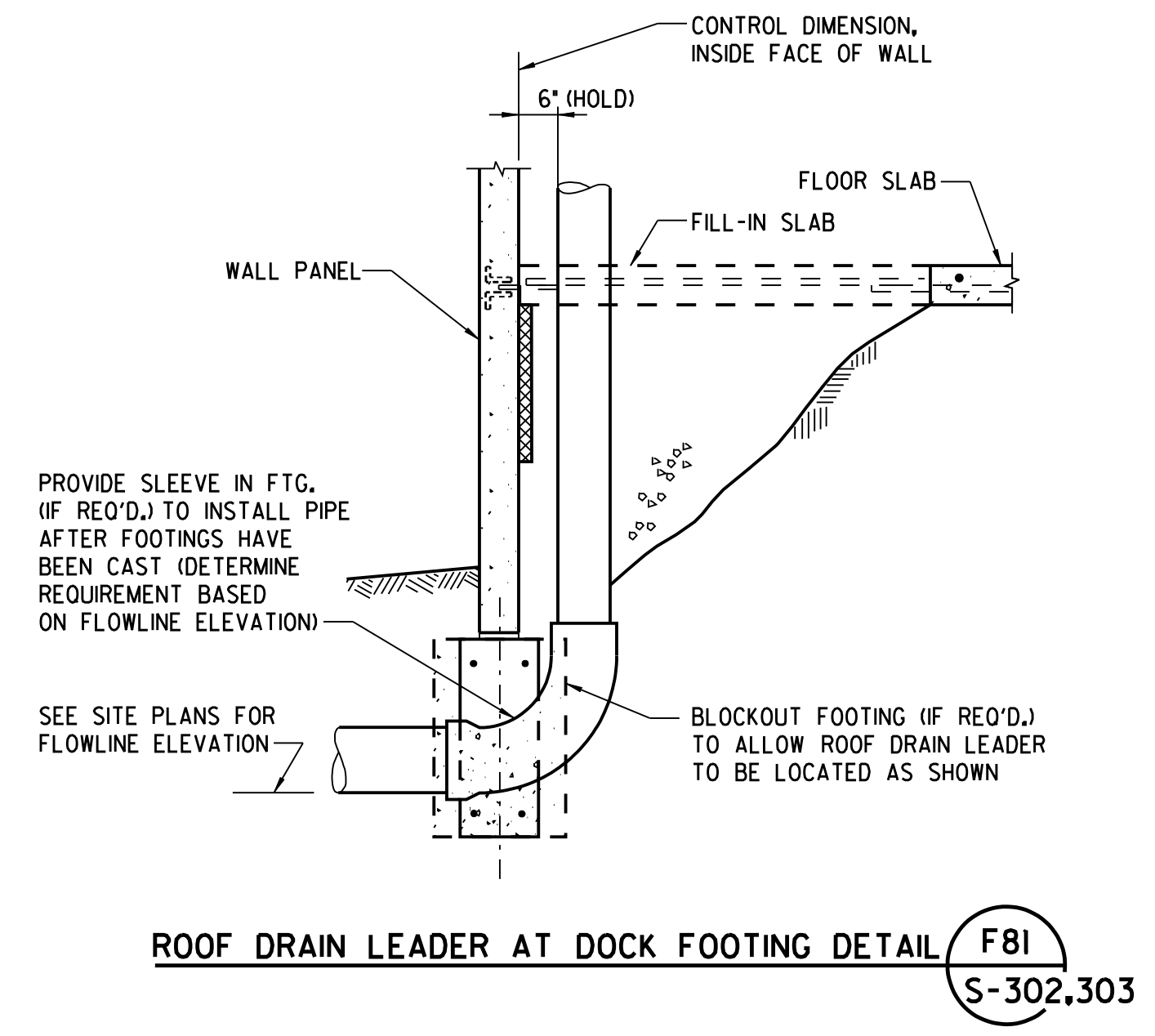
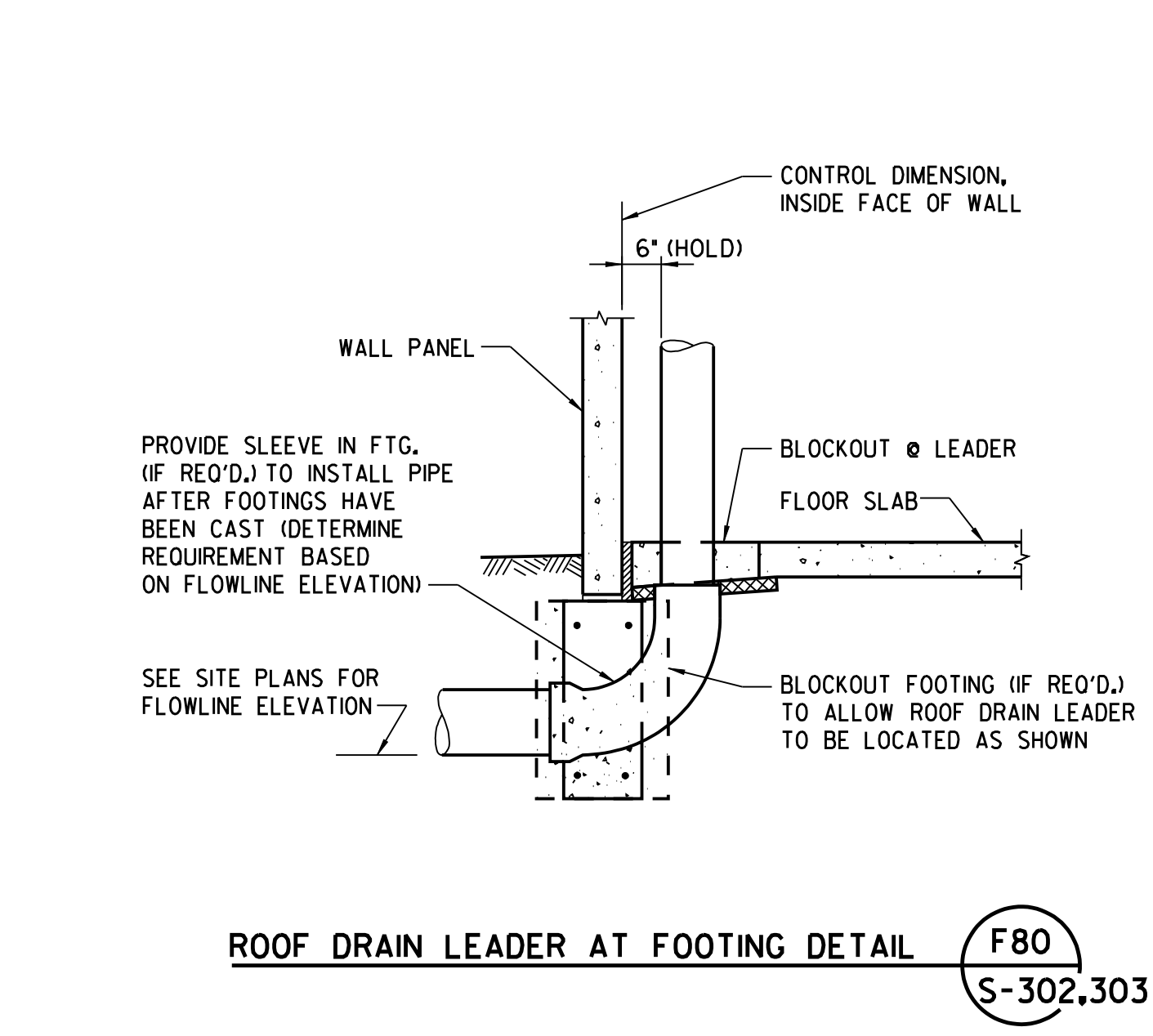
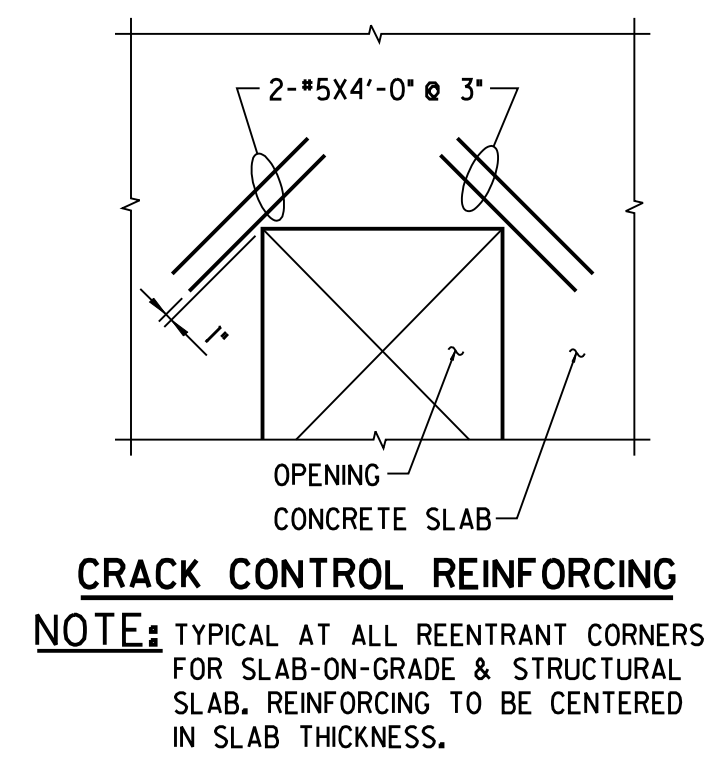
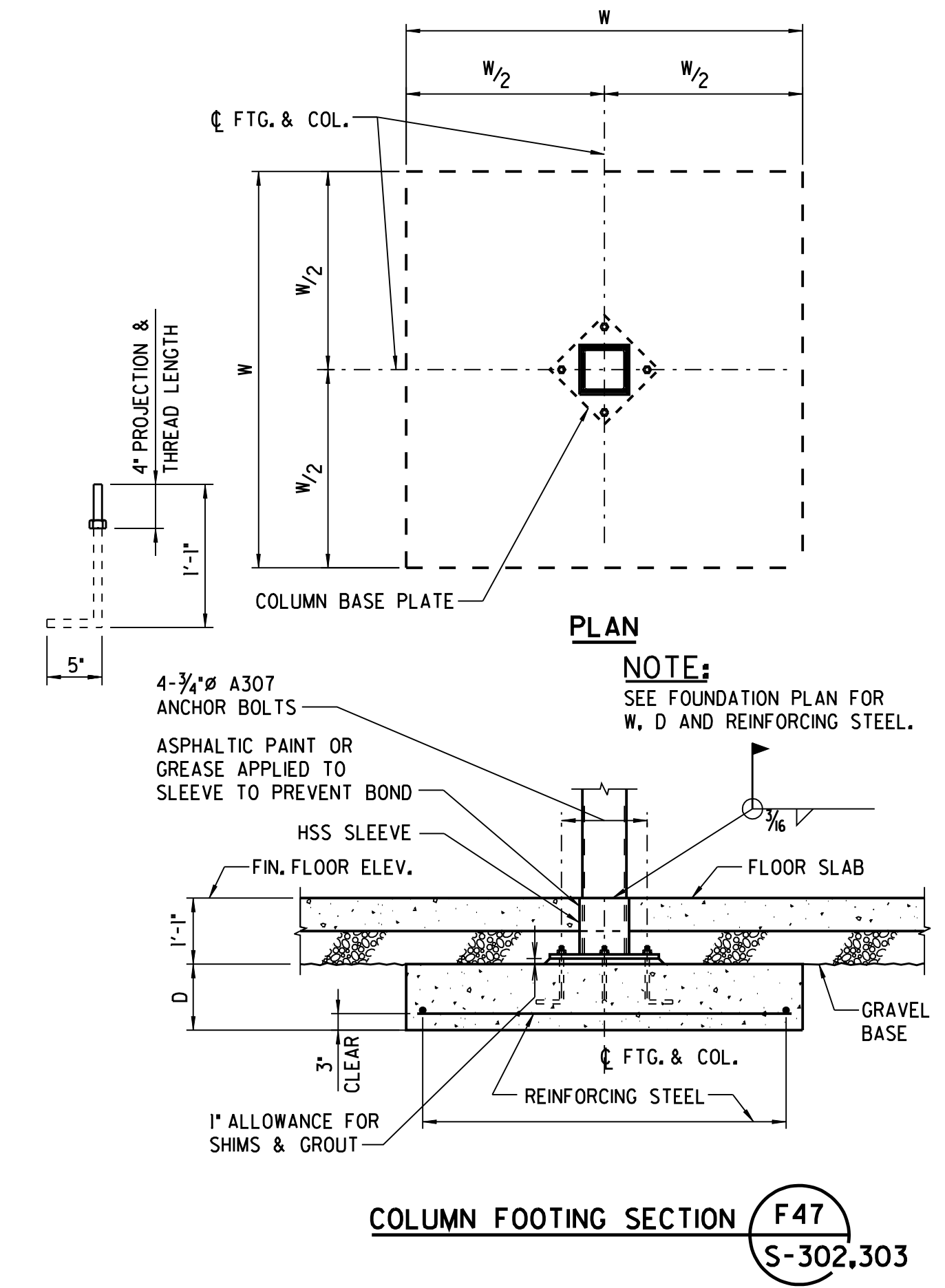
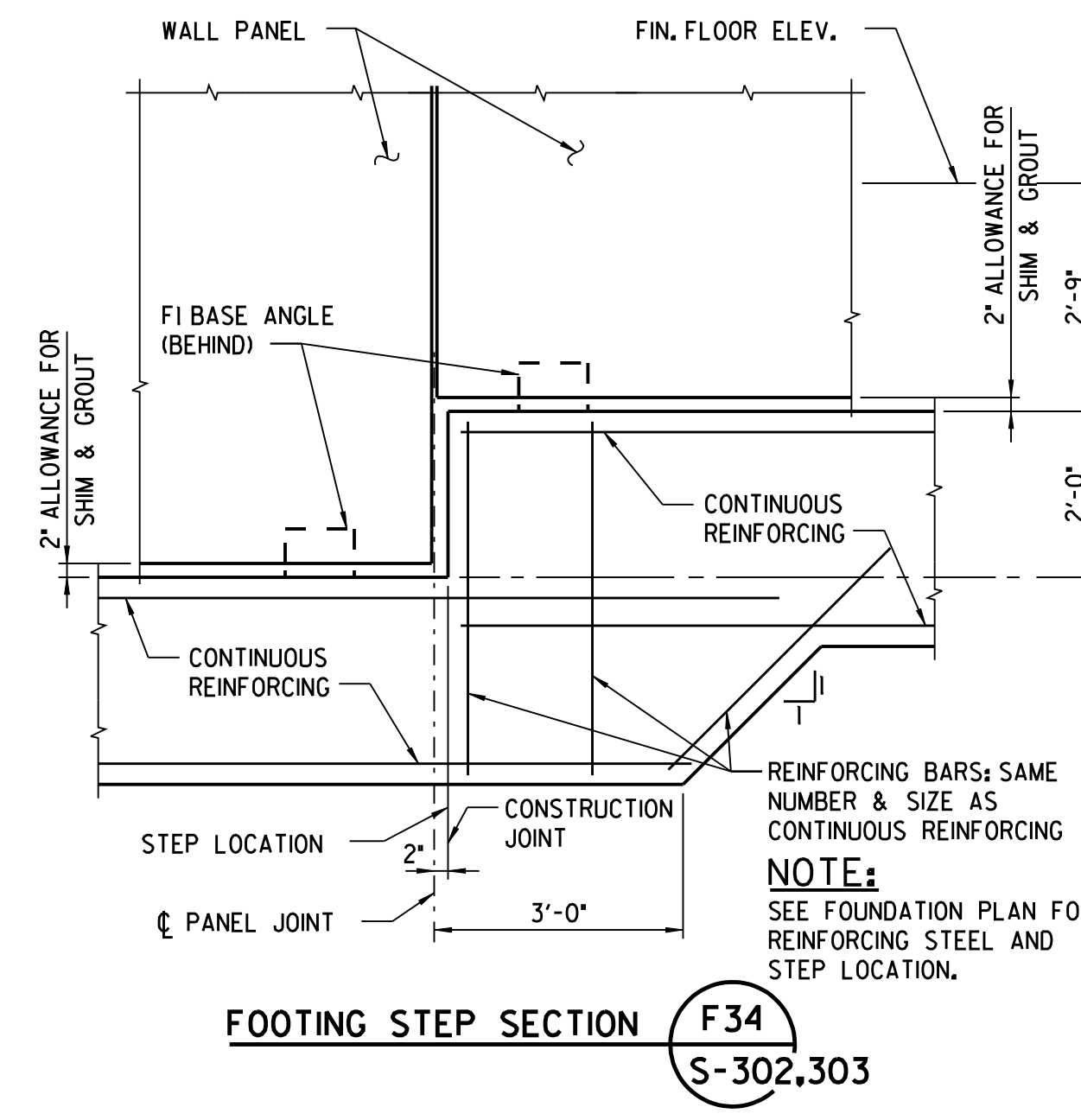
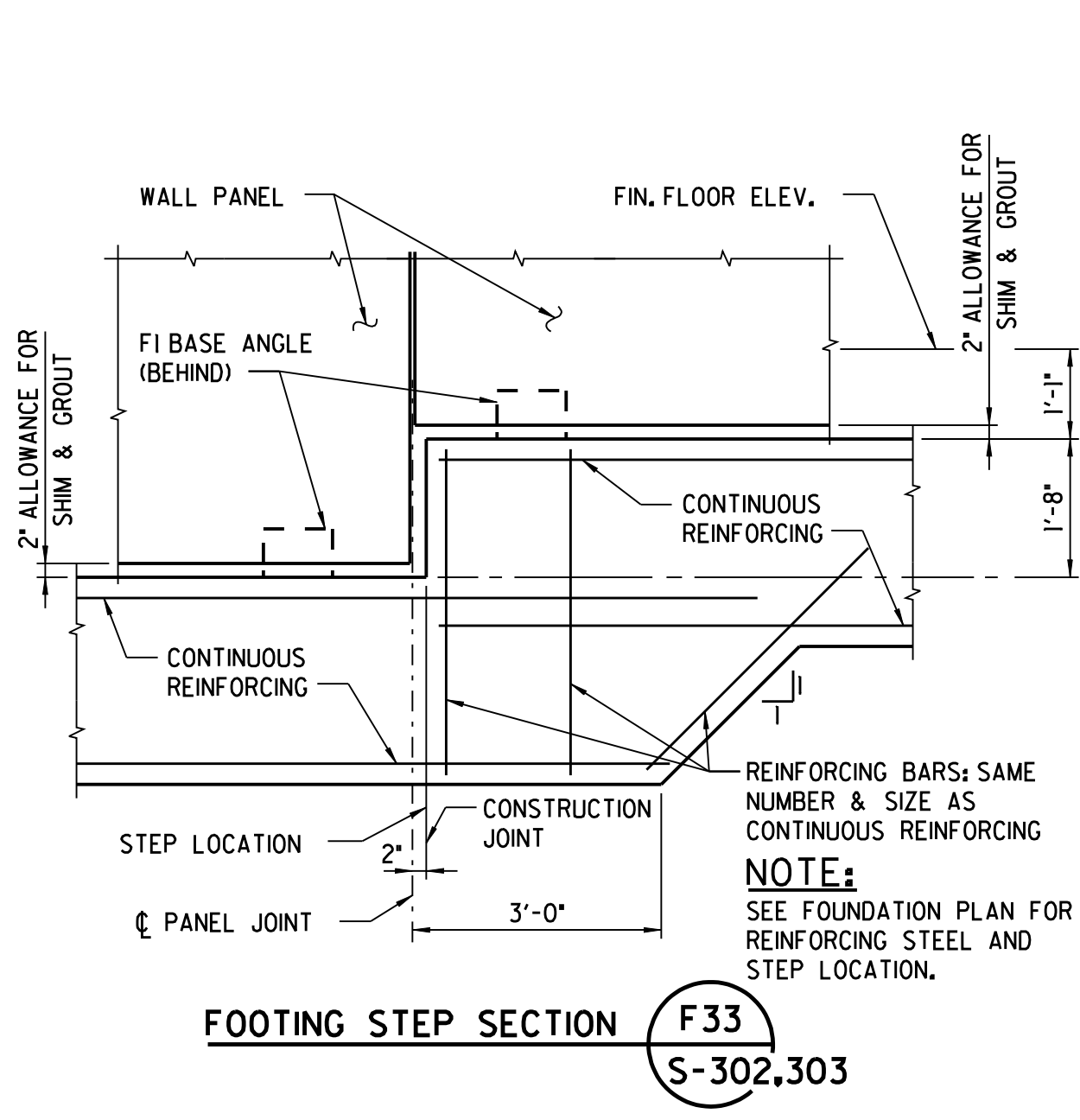
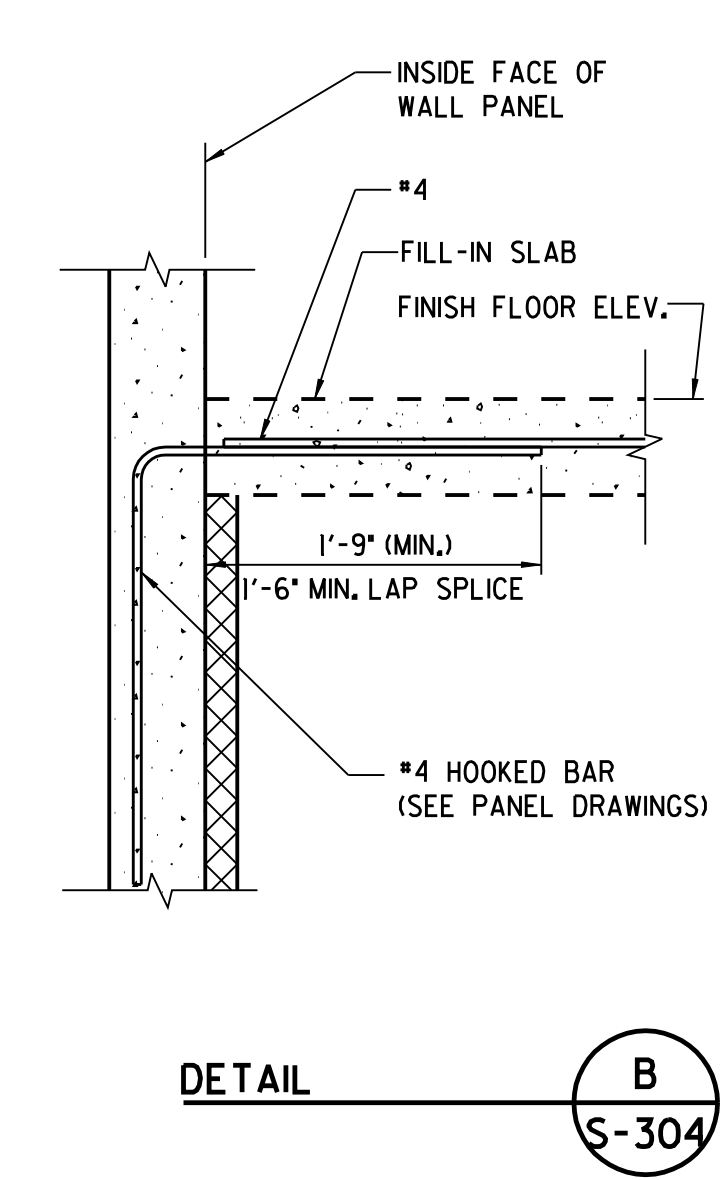
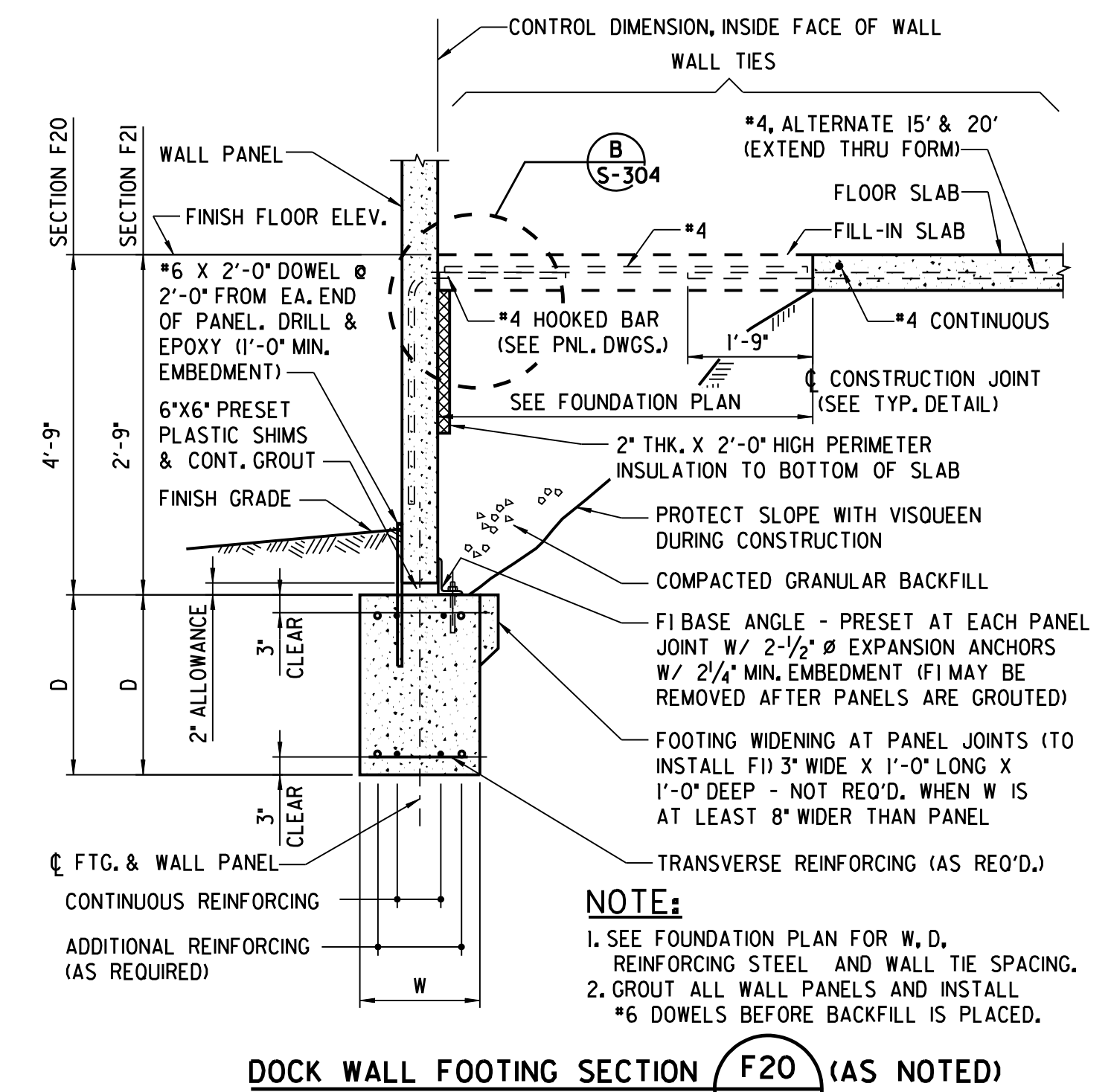
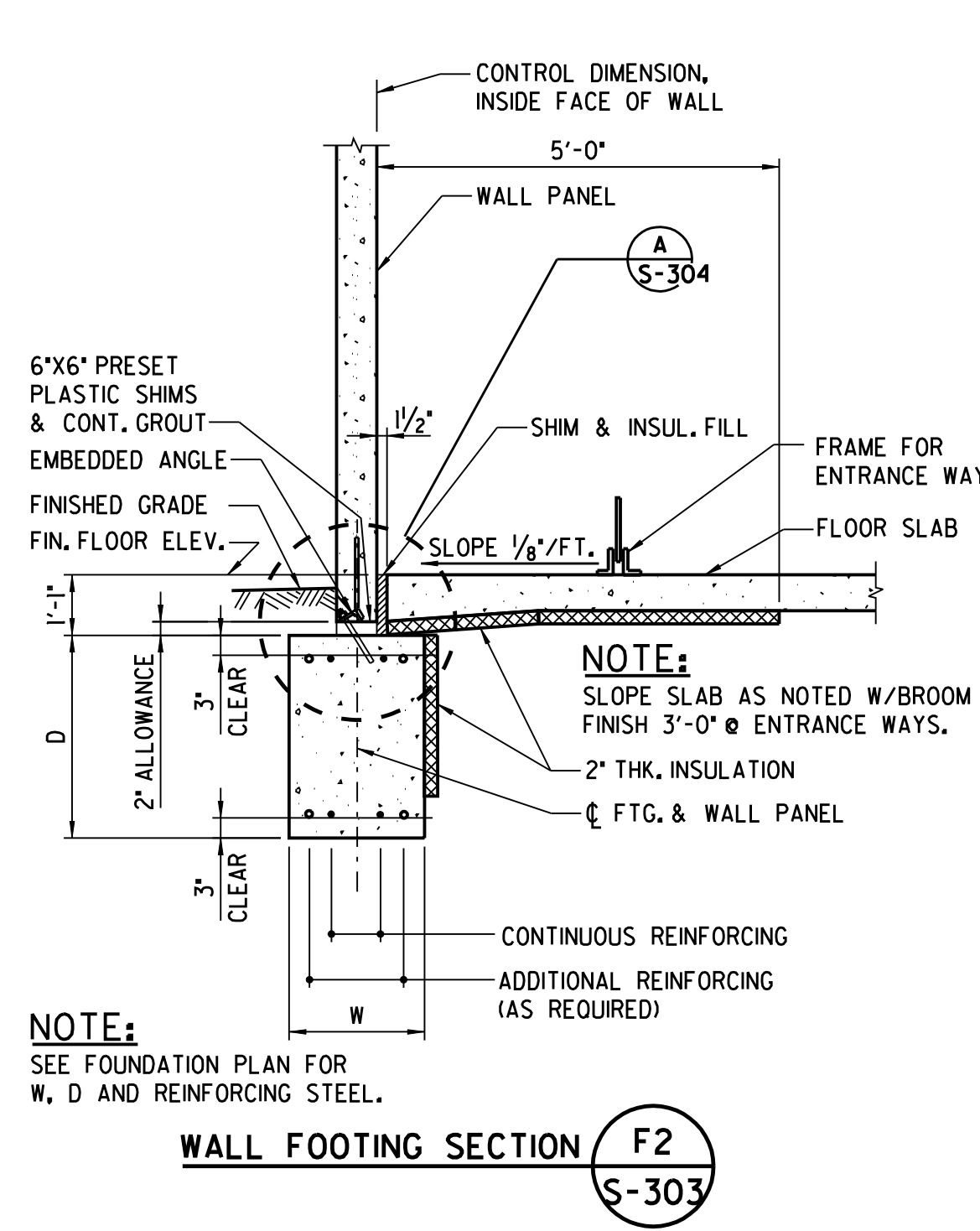
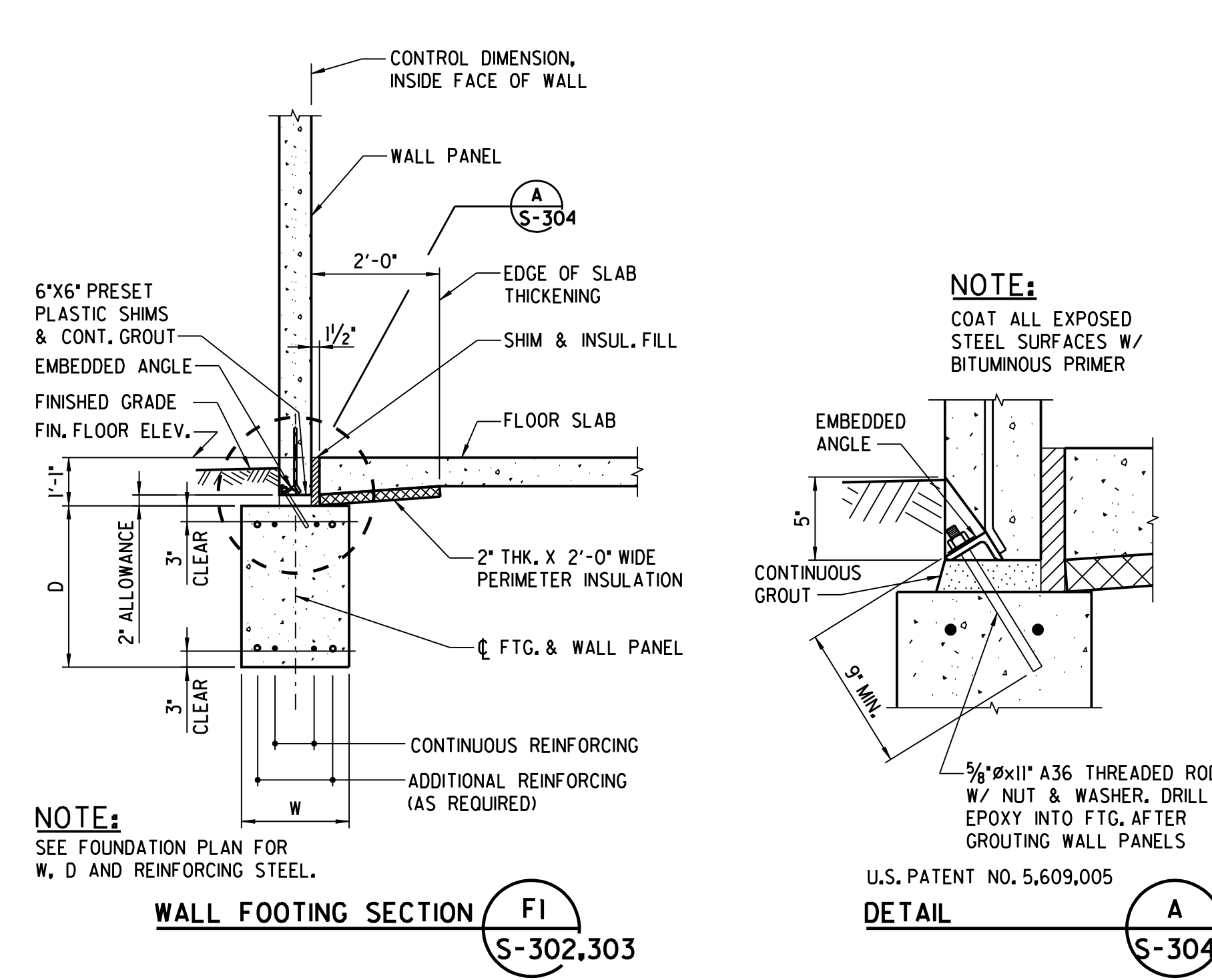
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WEDGEWOOD IV BUSINESS CENTER

FREDERICK COUNTY, MARYLAND

BUILDING THREE FOUNDATION PLAN

SCALE	FILE NAME
DRAWN BY: JJS	JOB NO. 20499
CHECKED BY: JJS	SHEET NO. S-303
DATE: APR. 03	REV.



PROCEDURE FOR PLACING DOWELS IN CONSTRUCTION JOINT

1. GREASE HALF OF DOWEL PROTRUDING THROUGH THE EDGE OF FORMS INTO THE FIRST SLAB POUR.
2. AFTER CONCRETE HAS REACHED INITIAL SET, TWIST DOWELS IN SLAB SEVERAL TURNS TO ENSURE EASE OF REMOVAL, REMOVE DOWELS AFTER 3 TO 4 HOURS.
3. STRIP FORMS AND IMMEDIATELY REINSERT DOWELS INTO SLAB.

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3	8-22-03	RELEASED FOR CONSTRUCTION
2	7-25-03	RELEASED FOR PERMIT
1	4-17-03	RELEASED FOR SITE IMPROVEMENT

REVISIONS

MORGAN-KELLER, INC.
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301-663-0626

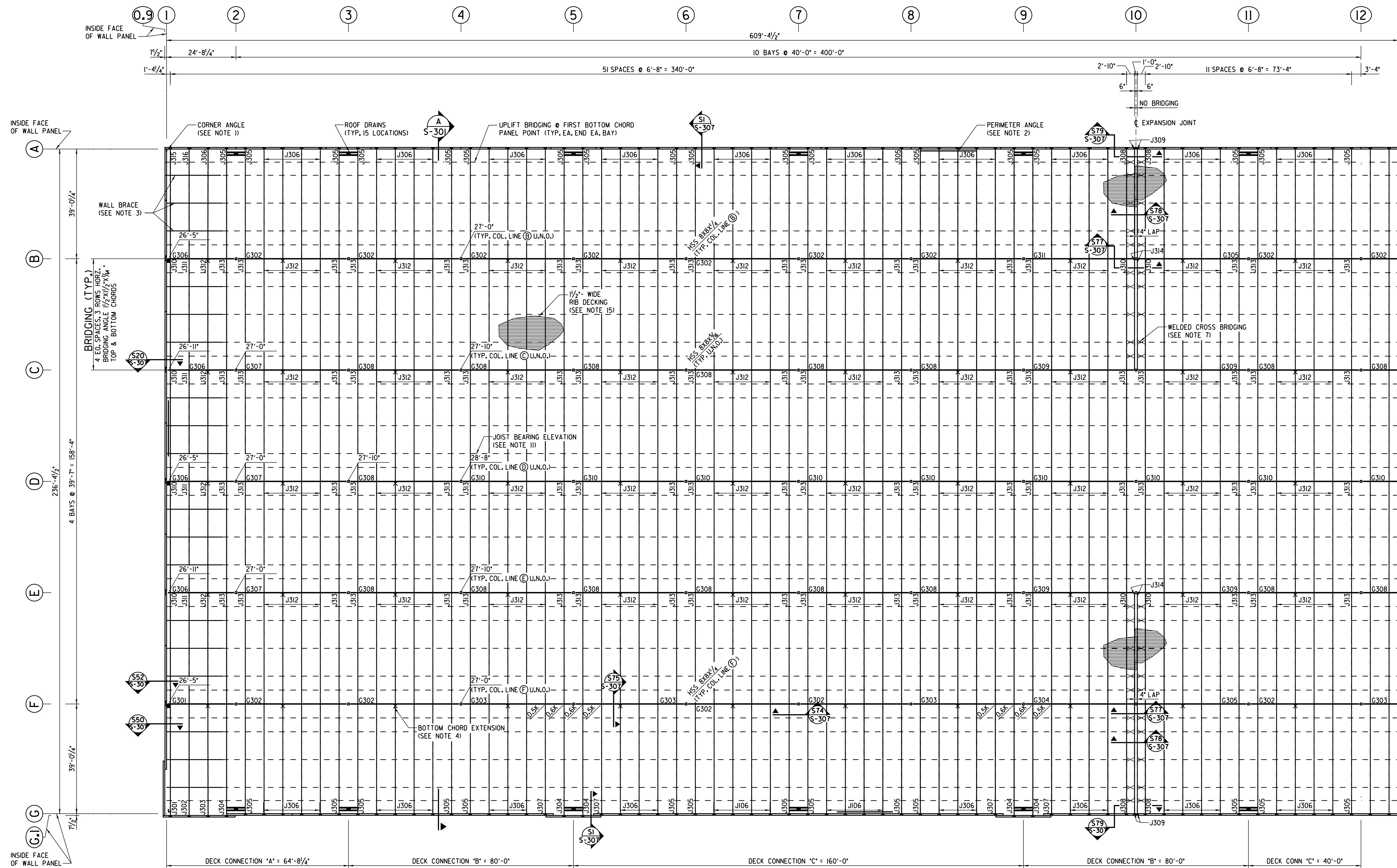
Architect: **NJec** Design associates, inc.
Structural: **CON/STEEL** TILT-UP SYSTEMS
LJB Inc. • 3100 Research Blvd. • P.O. Box 20246
Dayton, OH 45420-0246
(937) 259-5000 tel • (937) 259-5100 fax • ljbinc.com

**WEDGEWOOD IV
BUSINESS CENTER**

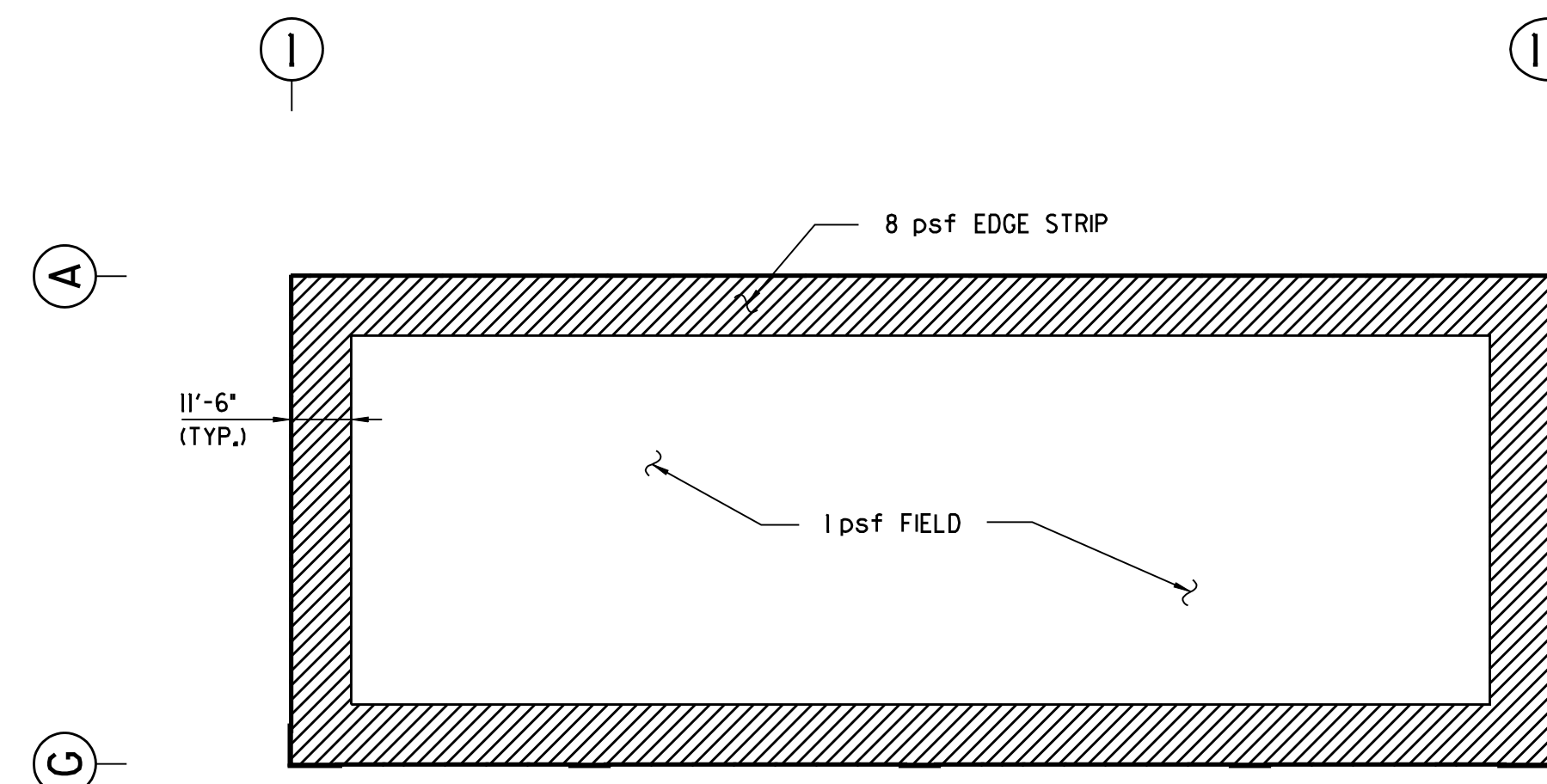
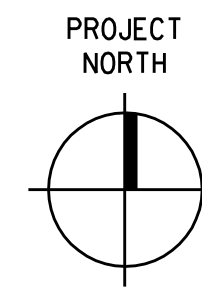
FREDERICK COUNTY, MARYLAND

**BUILDING THREE
FOUNDATION DETAILS**

SCALE	FILE NAME
DRAWN BY: JJS	JOB NO.: 20499
CHECKED BY: JJS	SHEET NO.: S-304
DATE: APR. 03	

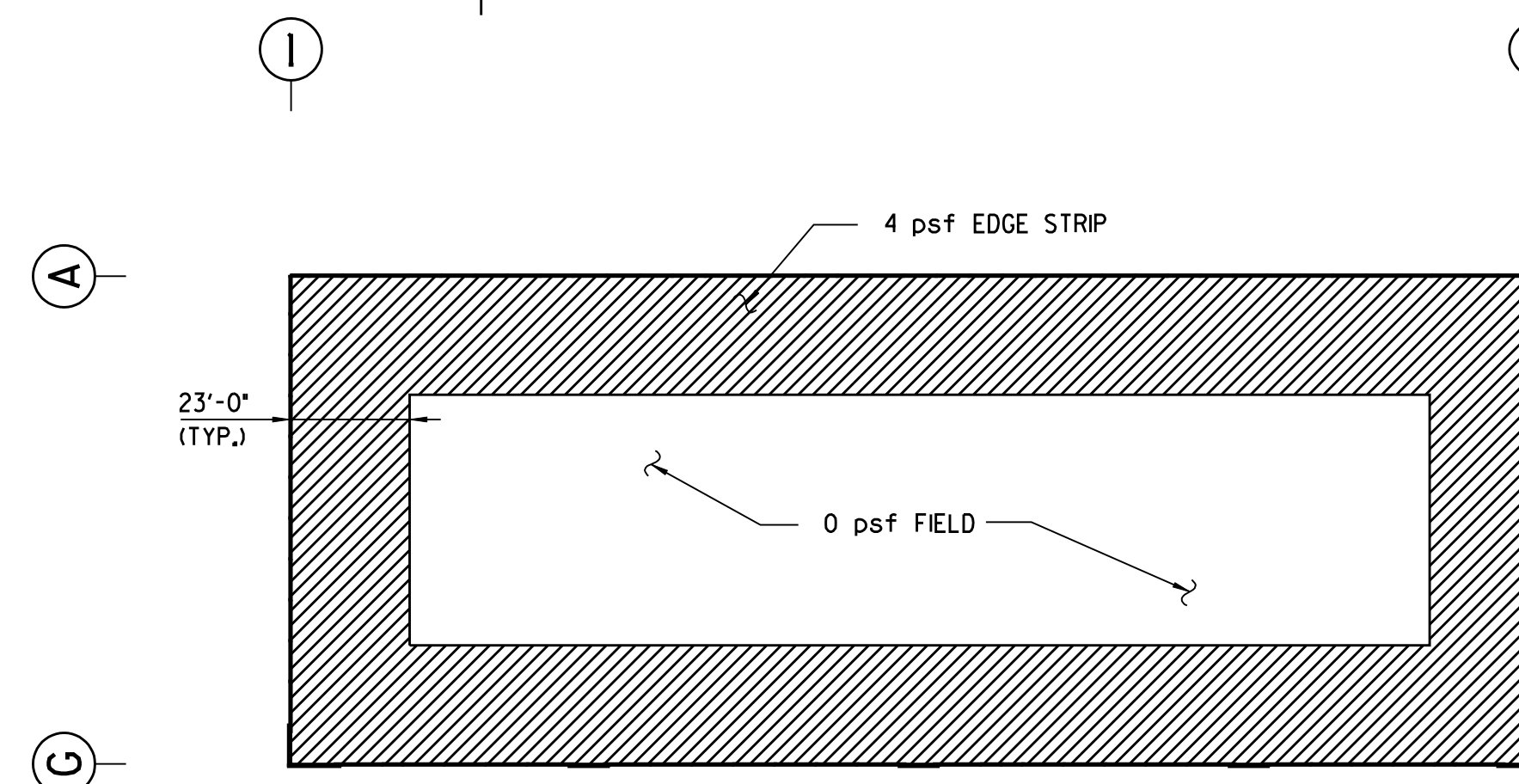


BUILDING THREE ROOF FRAMING PLAN



JOIST NET UPLIFT DIAGRAM

NOTE: ALLOWABLE MATERIAL STRESS INCREASES ARE NOT PERMITTED PER IBC SECTION 1605.3.1




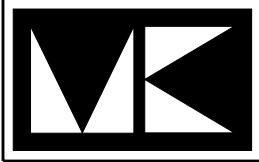



JOIST GIRDER NET UPLIFT DIAGRAM

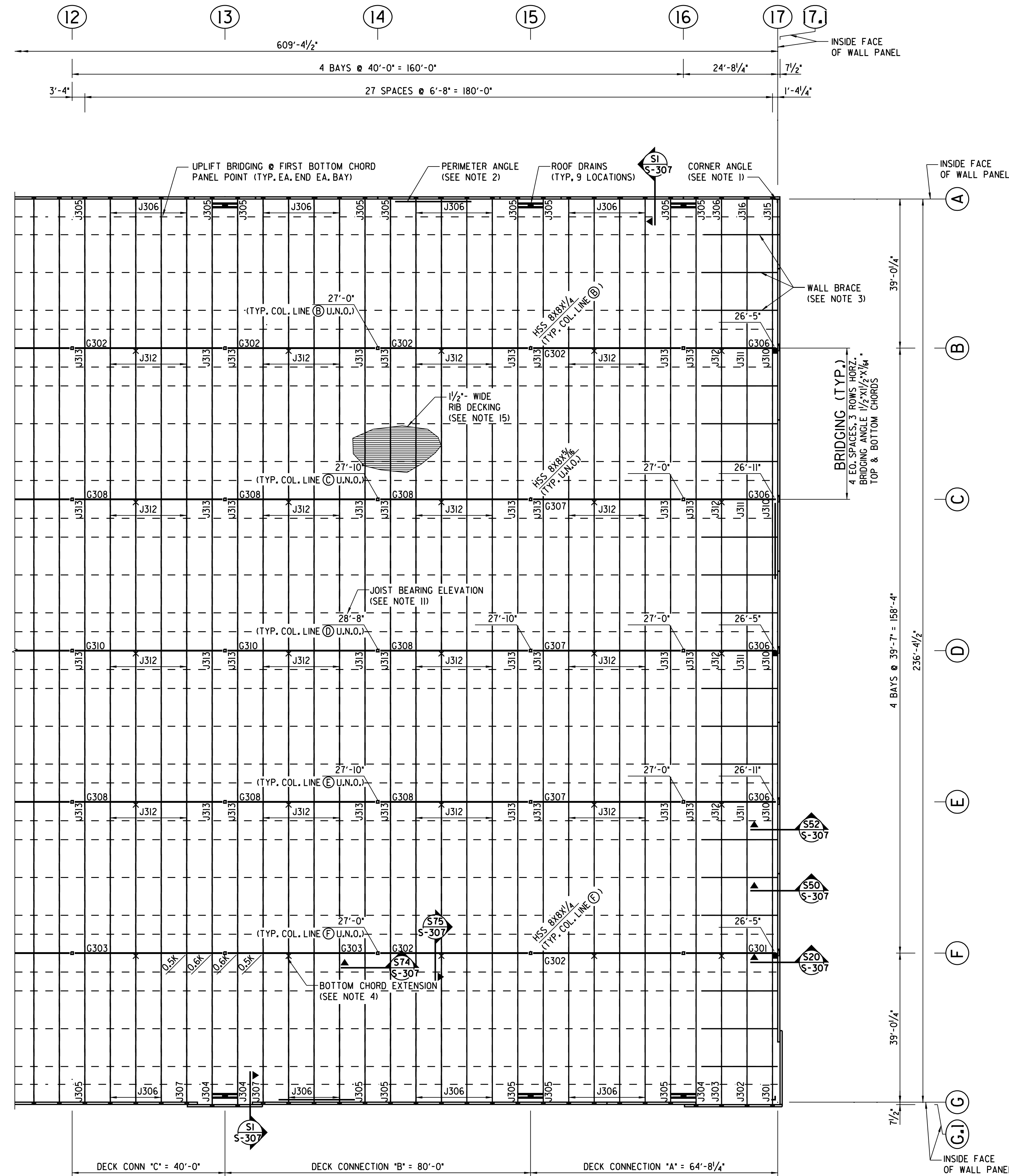
NOTE: ALLOWABLE MATERIAL STRESS INCREASES ARE NOT PERMITTED PER IBC SECTION 1605.3.1

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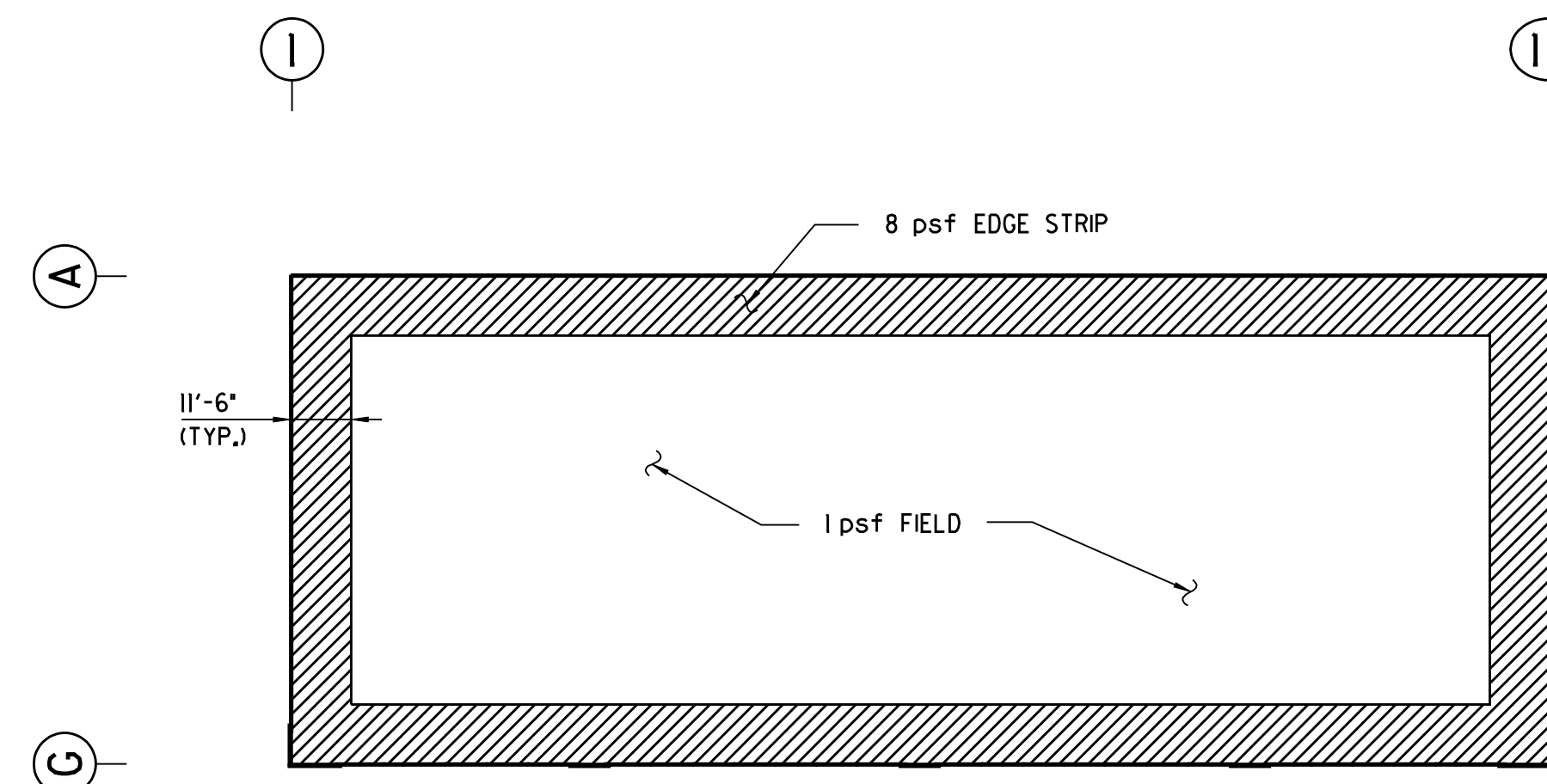
NOTES:

1. INSTALL CORNER ANGLE "L" WITH 4-3/8"X4-1/2" CONCRETE ANCHORS JUST BELOW ROOF DECK AND AT MID-HEIGHT OF PANELS. TYPICAL ALL 90° CORNERS AS SHOWN.
2. PERIMETER ANGLE 2-1/2"X2-1/2"X3/8" VERTICAL LEG UP AT JOIST BEARING WALLS AND VERTICAL LEG DOWN AT JOIST GIRDER BEARING WALLS. WELD CORNERS AND BUTT WELD SPLICES TO MAKE CONTINUOUS.
3. WALL BRACE ANGLE 2-1/2"X2-1/2"X3/8" TYPICAL EACH END EACH BAY.
4. "X" DENOTES LOCATION OF BOTTOM CHORD EXTENSIONS.
5. JOISTS SHALL BE DESIGNED FOR A NET UPLIFT AS SHOWN IN DIAGRAM.
6. JOISTS GIRDER SHALL BE DESIGNED FOR A NET UPLIFT AS SHOWN IN DIAGRAM.
7. WELDED CROSS BRIDGING IN ADDITION TO HORIZONTAL BRIDGING IS REQUIRED WHERE SHOWN BY .
8. DESIGN OF UPLIFT BRIDGING AND ADDITIONAL BOTTOM CHORD EXTENSIONS IS THE RESPONSIBILITY OF THE JOIST MANUFACTURER.
9. VERIFICATION OF EXACT BRIDGING REQUIREMENTS IS THE RESPONSIBILITY OF THE JOIST MANUFACTURER.
10. ALL JOIST SHOES ARE 2-1/2" DEEP. ALL JOIST GIRDER SHOES ARE 7-1/2" DEEP.
11. ALL ELEVATIONS ARE TO JOIST BEARING UNLESS NOTED OTHERWISE, REFERENCED FROM TOP OF FINISHED FLOOR.
12. FRAMES REQUIRED FOR ROOF DRAINS.
13. DO NOT WELD ACROSS EXPANSION JOINTS.
14. TEMPORARY VERTICAL CROSS BRACING (1/2" Ø CABLES) IS REQUIRED ALONG EVERY COLUMN LINE AT 150'-ft MAX. IF STRUCTURAL STEEL IS ERECTED PRIOR TO PANELS, BRACING IS REQUIRED IN EACH DIRECTION AND SHALL REMAIN IN PLACE UNTIL THE STRUCTURAL STEEL IS CONNECTED TO THE WALL PANELS.
15. ROOF DECK GAGE AND LAYOUT ARE ILLUSTRATED ON SHEET S-308.

2	8-22-03	RELEASED FOR CONSTRUCTION	
1	7-25-03	RELEASED FOR PERMIT	
REVISIONS			
		MORGAN-KELLER, INC.	
		Design / Build Construction Services	
70 Thomas Johnson Drive • Frederick, Maryland 21702 301-663-0626			
Architect:		NuTec Design associates, inc.	
Structural:		CON/STEEL TILT-UP SYSTEMS	
		JTB Inc. • 3100 Research Blvd. • P.O. Box 20246 Dayton, OH 45420-0246 (937) 259-5000 tel • (937) 259-5100 fax • jtbinc.com	
WEDGEWOOD IV BUSINESS CENTER			
FREDERICK COUNTY,		MARYLAND	
BUILDING THREE FRAMING PLAN			
SCALE		FILE NAME	
DRAWN BY JJS		JOB NO. 20499	
CHECKED BY JJS		SHEET NO. S-305	
CONTACT		REL.	
DATE JULY 03			

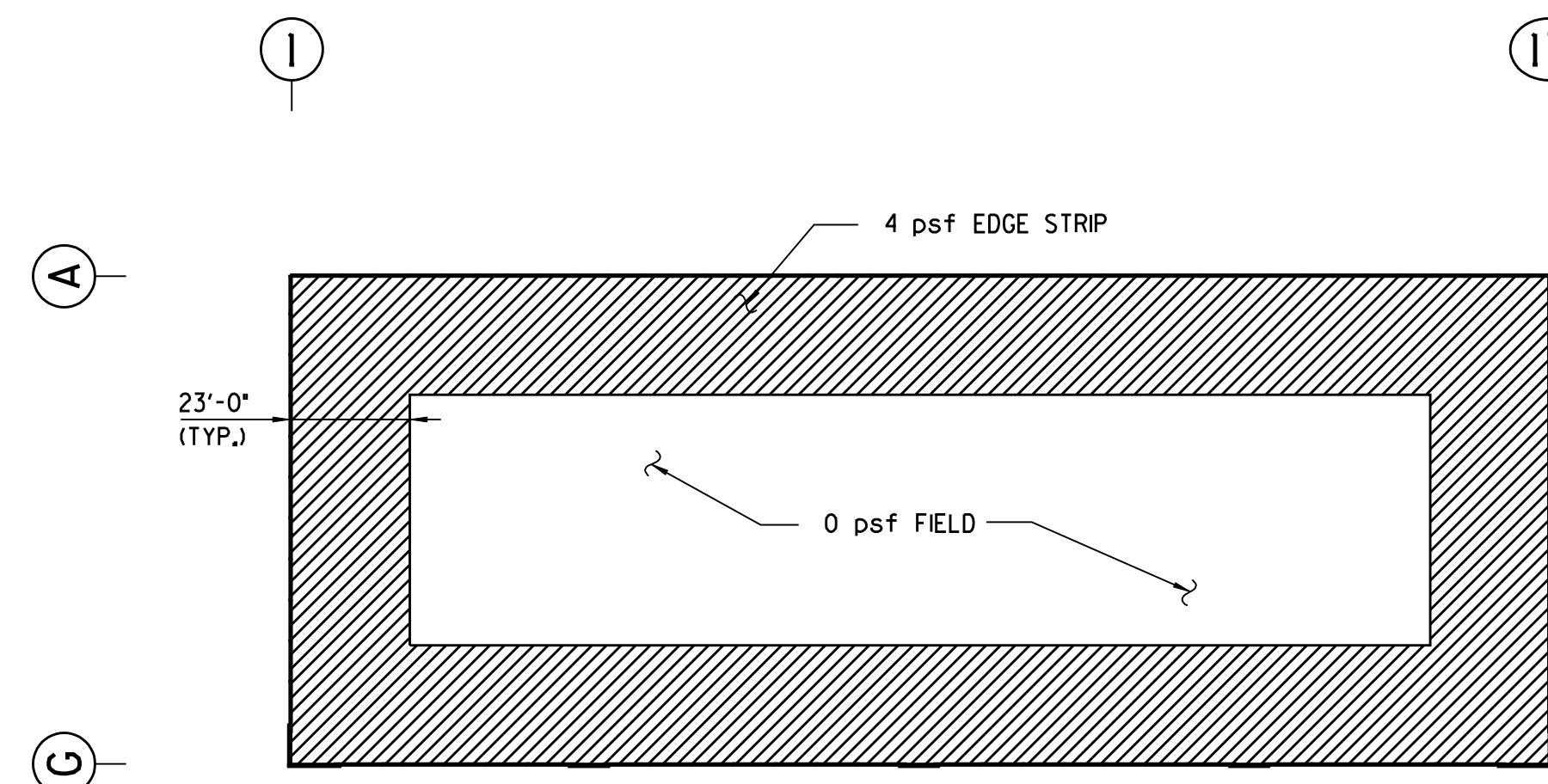


BUILDING THREE ROOF FRAMING PLAN



JOIST NET UPLIFT DIAGRAM

NOTE: ALLOWABLE MATERIAL STRESS INCREASES ARE NOT PERMITTED PER IBC SECTION 1605.3.1



JOIST GIRDER NET UPLIFT DIAGRAM

NOTE: ALLOWABLE MATERIAL STRESS INCREASES ARE NOT PERMITTED PER IBC SECTION 1605.3.1

NOTES:

1. INSTALL CORNER ANGLE 'L1' WITH 4-3/8\"/>
2. PERIMETER ANGLE 2 1/2\"/>
3. WALL BRACE ANGLE 2 1/2\"/>
4. 'x' DENOTES LOCATION OF BOTTOM CHORD EXTENSIONS.
5. JOISTS SHALL BE DESIGNED FOR A NET UPLIFT AS SHOWN IN DIAGRAM.
6. JOISTS GIRDERS SHALL BE DESIGNED FOR A NET UPLIFT AS SHOWN IN DIAGRAM.
7. WELDED CROSS BRIDGING IN ADDITION TO HORIZONTAL BRIDGING IS REQUIRED WHERE SHOWN BY <- - ->.
8. DESIGN OF UPLIFT BRIDGING AND ADDITIONAL BOTTOM CHORD EXTENSIONS IS THE RESPONSIBILITY OF THE JOIST MANUFACTURER.
9. VERIFICATION OF EXACT BRIDGING REQUIREMENTS IS THE RESPONSIBILITY OF THE JOIST MANUFACTURER.
10. ALL JOIST SHOES ARE 2 1/2\"/>
11. ALL ELEVATIONS ARE TO JOIST BEARING UNLESS NOTED OTHERWISE, REFERENCED FROM TOP OF FINISHED FLOOR.
12. FRAMES REQUIRED FOR ROOF DRAINS.
13. DO NOT WELD ACROSS EXPANSION JOINTS.
14. TEMPORARY VERTICAL CROSS BRACING (1/2\"/>
15. ROOF DECK GAGE AND LAYOUT ARE ILLUSTRATED ON SHEET S-308.

REV	DATE	DESCRIPTION
2	8-22-03	RELEASED FOR CONSTRUCTION
1	7-25-03	RELEASED FOR PERMIT

REVISIONS

MORGAN-KELLER, INC.
Design / Build
Construction Services

70 Thomas Johnson Drive • Frederick, Maryland 21702
301-663-0626

Architect: **NJtec** Design associates, inc.

Structural: **CON/STEEL** TILT-UP SYSTEMS

LJB Inc. • 3100 Research Blvd. • P.O. Box 20246
Dayton, OH 45420-0246
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**WEDGEWOOD IV
BUSINESS CENTER**

FREDERICK COUNTY, MARYLAND

**BUILDING THREE
FRAMING PLAN**

SCALE	FILE NAME
DRAWN BY: JJS	JOB NO.: 20499
CHECKED BY: JJS	SHEET NO.: S-306
DATE: JULY 03	REV.

BAR JOIST SCHEDULE

Overall Length (O.A.L.)

Tagged End (Labelled End On Plan)

HL

HR

BDL

BDR

*BRG.L

*BRG.R

CXL

CXR

(\varnothing 2" Long x $\frac{3}{16}$ " Slots @ 3/4" Ga. K Series)
(\varnothing 2" Long x $\frac{1}{8}$ " Slots @ 4" Ga. LH Series)

NOTE: *NEAR COLUMN* JOISTS ARE DENOTED BY "*" ON JOIST MARK.

* 4" Min. (K Series)
6" Min. (LH Series)

Horizontal Dim. Detailing			Qty.	Mark	Type	O.A.L.	CXL	CXR	BRG.L	BRG.R	BDL	BDR	HL	HR	Net Uplift (SEE NOTE 3)
(t)	C / C	(t)													
+2 1/8"	39'-7 1/4"	-1/8"	2	J301	28K7	39'-10 1/2"	-	-	4"	4"	2 1/2"	2 1/2"	-	-	35 PLF
+2 1/8"	39'-7 1/4"	-1/8"	2	J302	28KC55	39'-10 1/2"	-	-	4"	4"	2 1/2"	2 1/2"	-	-	54 PLF
+2 1/8"	39'-7 1/4"	-1/8"	2	J303	28KCS5	39'-10 1/2"	-	-	4"	4"	2 1/2"	2 1/2"	-	-	SEE NOTE 4
+2 1/8"	39'-7 1/4"	-1/8"	8	J304*	28KSP01	39'-10 1/2"	-	-	4"	4"	2 1/2"	2 1/2"	-	2 1/8"	SEE NOTE 5
+2 1/8"	39'-0' 1/4"	-1/8"	48	J305*	28K9	39'-3'	-	-	4"	4"	2 1/2"	2 1/2"	-	2 1/8"	SEE NOTE 5
+2 1/8"	39'-0' 1/4"	-1/8"	108	J306	28K9	39'-3'	-	-	4"	4"	2 1/2"	2 1/2"	-	-	SEE NOTE 5
+2 1/8"	39'-0' 1/4"	-1/8"	6	J307	28KSP01	39'-3'	-	-	4"	4"	2 1/2"	2 1/2"	-	-	SEE NOTE 5
+2 1/8"	39'-0' 1/4"	-1/8"	4	J308	26K7	39'-3'	-	-	4"	4"	2 1/2"	2 1/2"	-	-	SEE NOTE 5
+2 1/8"	39'-0' 1/4"	-1/8"	4	J309*	26K7	39'-3'	-	-	4"	4"	2 1/2"	2 1/2"	-	2 1/8"	SEE NOTE 6
-1/8"	39'-7"	-1/8"	12	J310	26K7	39'-6 3/4"	-	-	4"	4"	2 1/2"	2 1/2"	-	-	33 PLF
-1/8"	39'-7"	-1/8"	8	J311	28K9	39'-6 3/4"	-	-	4"	4"	2 1/2"	2 1/2"	-	-	54 PLF
-1/8"	39'-7"	-1/8"	232	J312	28K9	39'-6 3/4"	-	-	4"	4"	2 1/2"	2 1/2"	-	-	8 PLF
-1/8"	39'-7"	-1/8"	116	J313*	28K9	39'-6 3/4"	-	-	4"	4"	2 1/2"	2 1/2"	2 1/8"	2 1/8"	7 PLF
-1/8"	39'-7"	-1/8"	4	J314*	26K7	39'-6 3/4"	-	-	4"	4"	2 1/2"	2 1/2"	2 1/8"	2 1/8"	2 PLF
+2 1/8"	39'-0' 1/4"	-1/8"	2	J315	26K7	39'-3'	-	-	4"	4"	2 1/2"	2 1/2"	-	-	33 PLF
+2 1/8"	39'-0' 1/4"	-1/8"	2	J316	28K9	39'-3'	-	-	4"	4"	2 1/2"	2 1/2"	-	-	54 PLF

JOIST GIRDER SCHEDULE

JOIST Spacing

Mark	Joist Spacing		Horizontal Dim. Detailing				
			(ft)	C / C	(ft)		
G301	1'-8 1/2"	3 SPACES @ 6'-8" = 20'-0"	3'-3 3/4"	+4 1/4"	24'-8 1/4"	-1 1/4"	
G302	3'-3 3/4"	5 SPACES @ 6'-8" = 33'-4"	3'-3 3/4"	-1 1/4"	40'-0"	-1 1/4"	
G303	3'-3 3/4"	5 SPACES @ 6'-8" = 33'-4"	3'-3 3/4"	-1 1/4"	40'-0"	-1 1/4"	
G304	3'-3 3/4"	5 SPACES @ 6'-8" = 33'-4"	2'-10"	5 3/4"	-1 1/4"	40'-0"	
G305	3'-3 3/4"	5 SPACES @ 6'-8" = 33'-4"	2'-10"	4 1/4"	-1 1/4"	40'-0"	
G306	1'-8 1/2"	3 SPACES @ 6'-8" = 20'-0"	3'-3 3/4"	+4 1/4"	24'-8 1/4"	-1 1/4"	
G307	3'-3 3/4"	5 SPACES @ 6'-8" = 33'-4"	3'-3 3/4"	-1 1/4"	40'-0"	-1 1/4"	
G308	3'-3 3/4"	5 SPACES @ 6'-8" = 33'-4"	3'-3 3/4"	-1 1/4"	40'-0"	-1 1/4"	
G309	3'-3 3/4"	5 SPACES @ 6'-8" = 33'-4"	2'-10"	5 3/4"	-1 1/4"	40'-0"	
G310	3'-3 3/4"	5 SPACES @ 6'-8" = 33'-4"	3'-3 3/4"	-1 1/4"	40'-0"	-1 1/4"	
G311	3'-3 3/4"	5 SPACES @ 6'-8" = 33'-4"	2'-10"	5 3/4"	-1 1/4"	40'-0"	

Overall Length (O.A.L.)

NOTE: HOLE CONDITION ON TOP CHORD

NOTE: ALLOWABLE MATERIAL STRESS INCREASES ARE NOT PERMITTED PER IBC SECTION I605.3.I

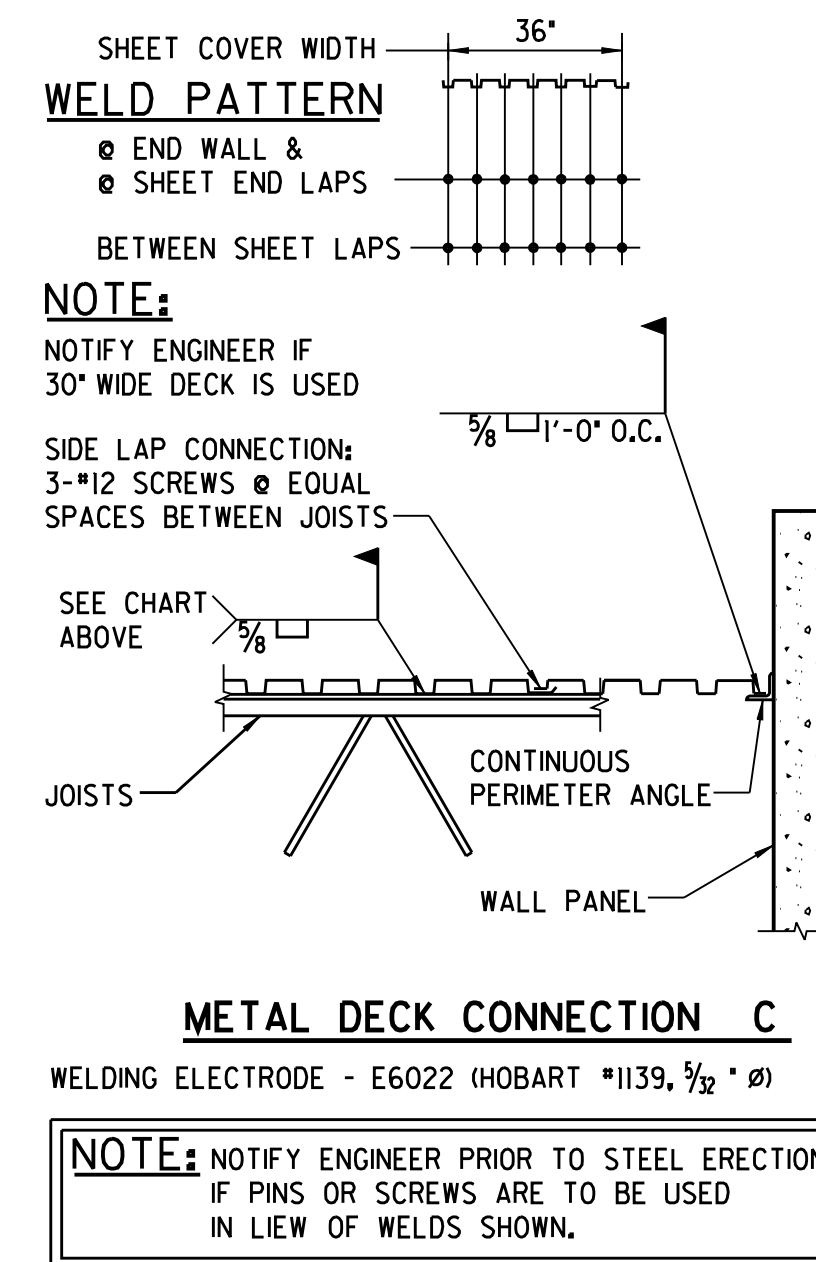
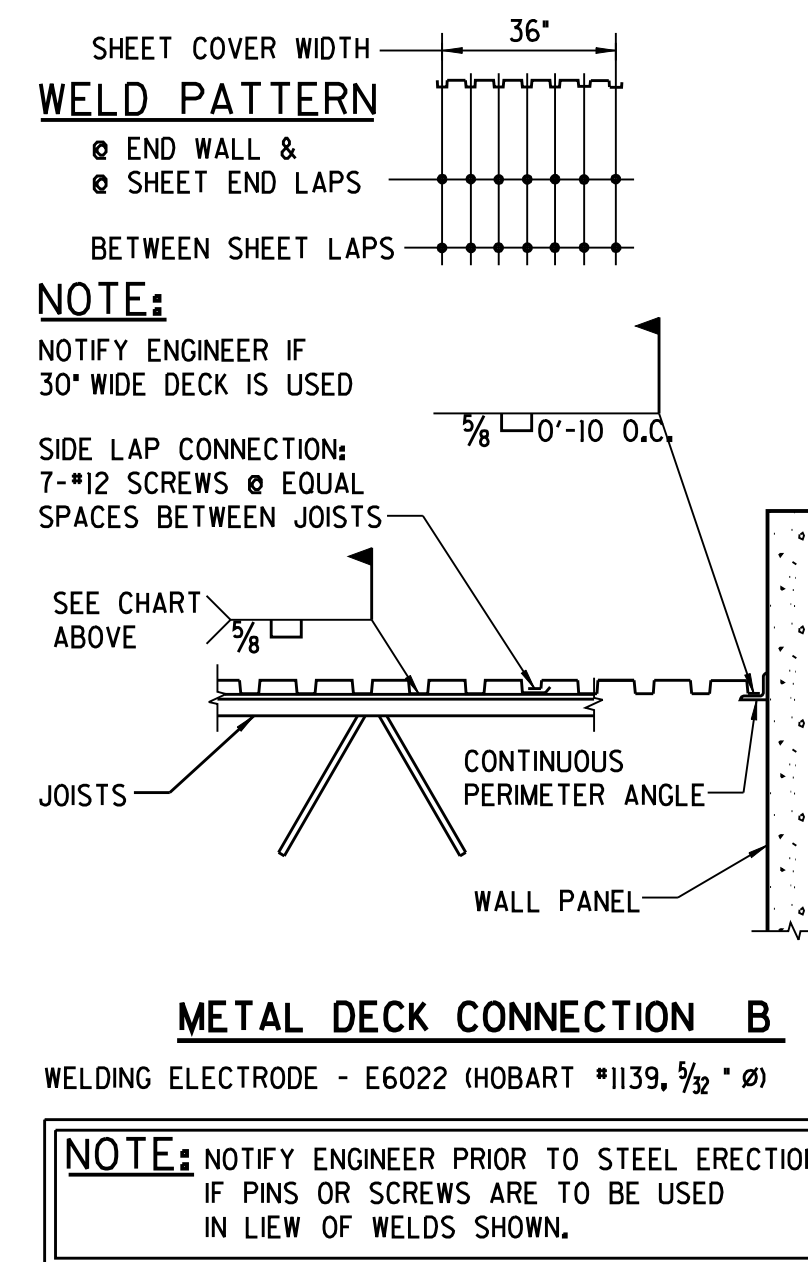
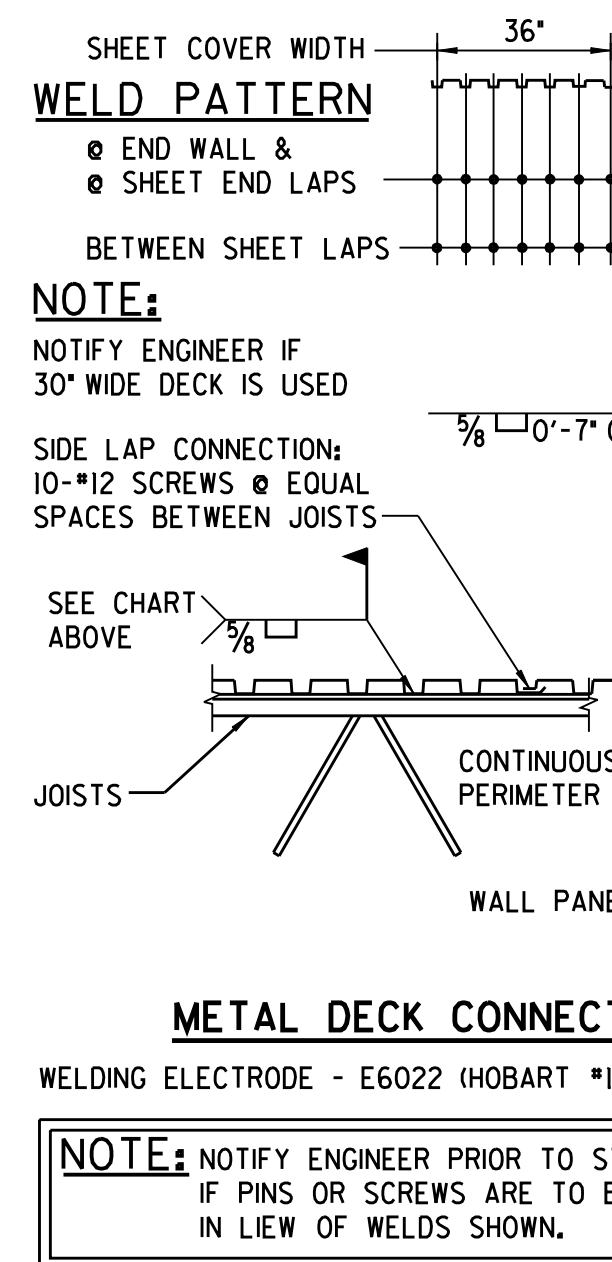
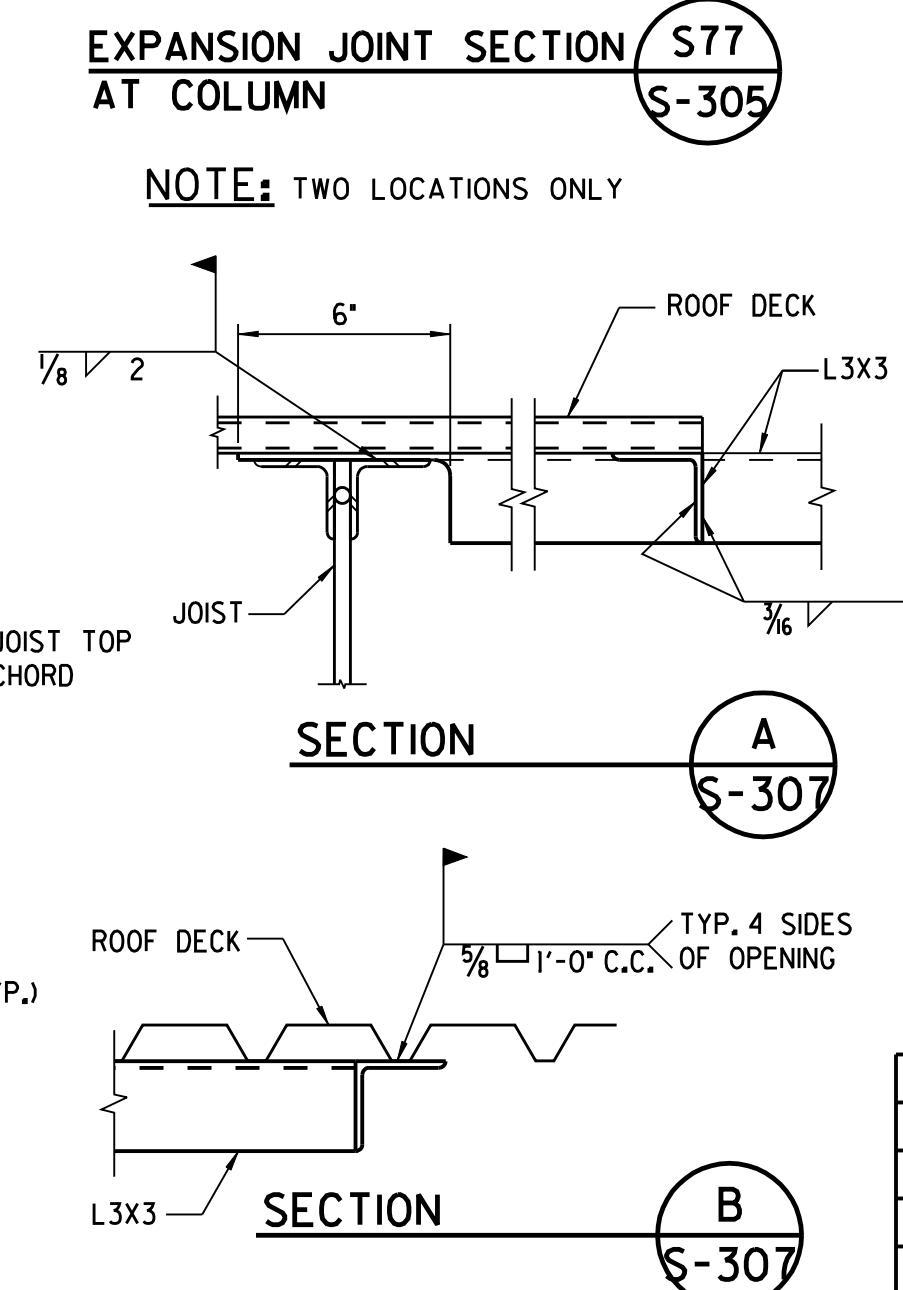
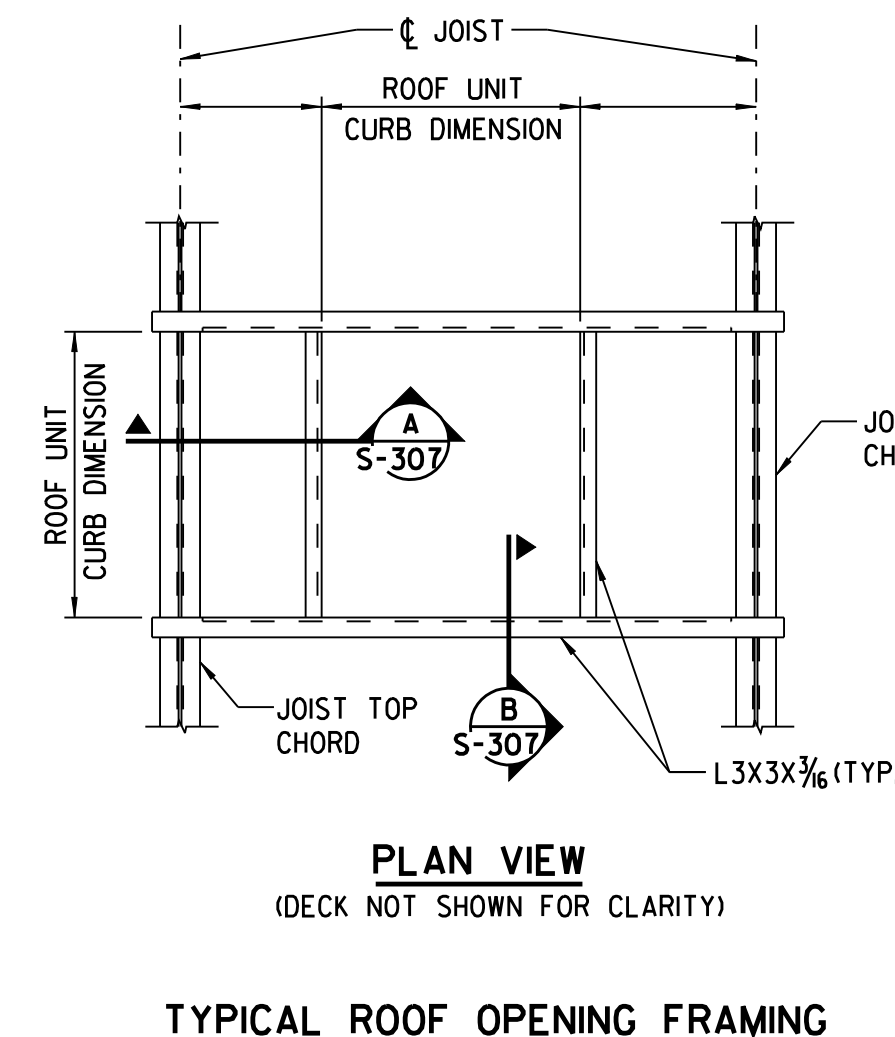
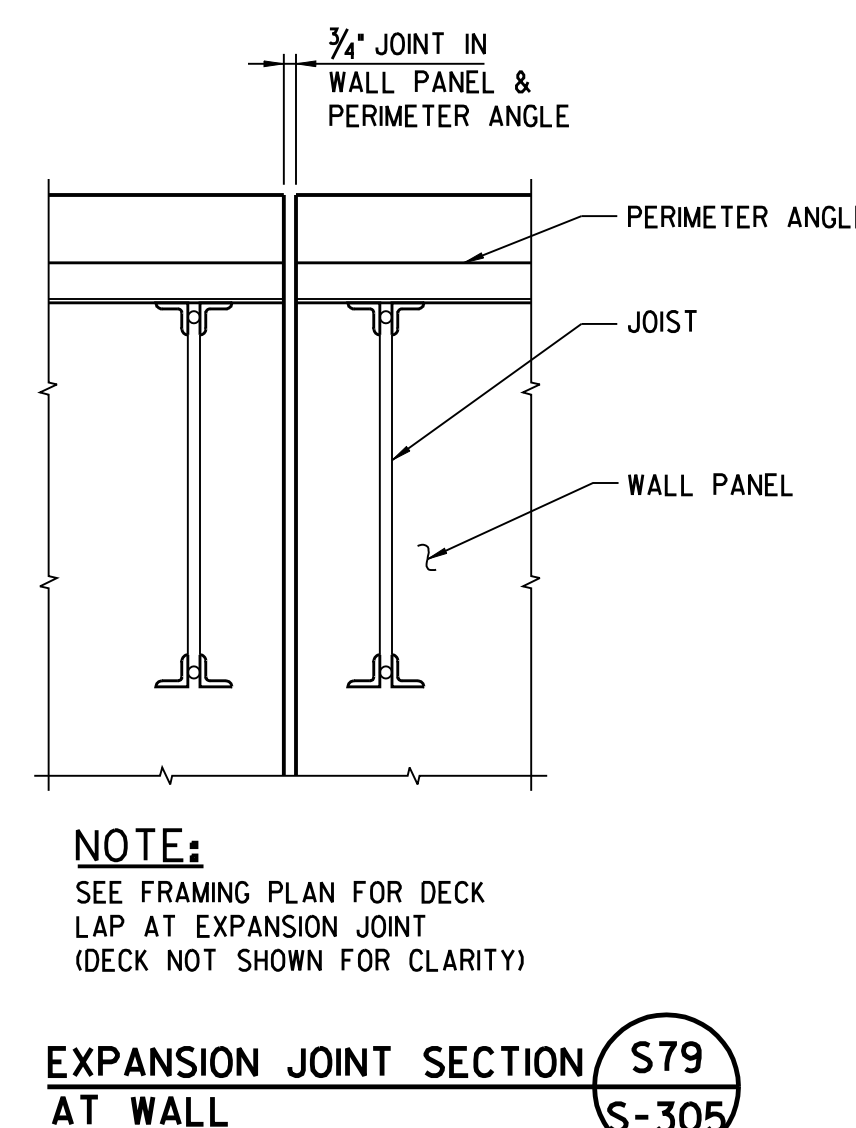
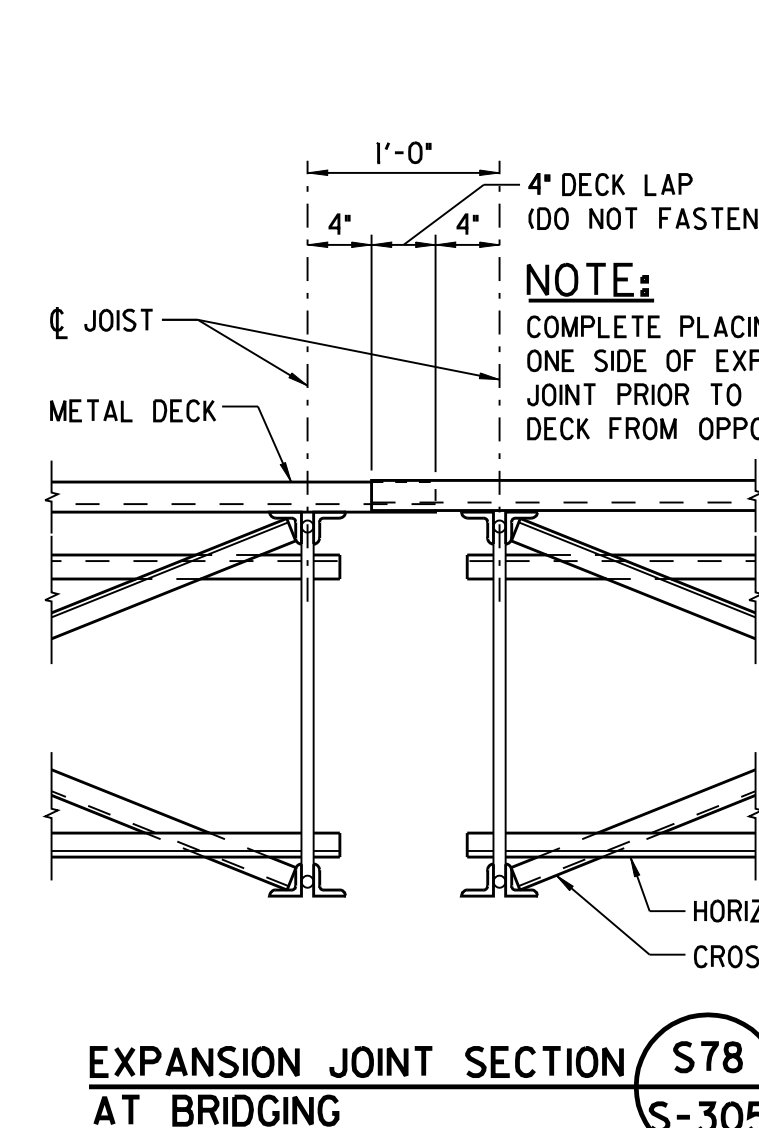
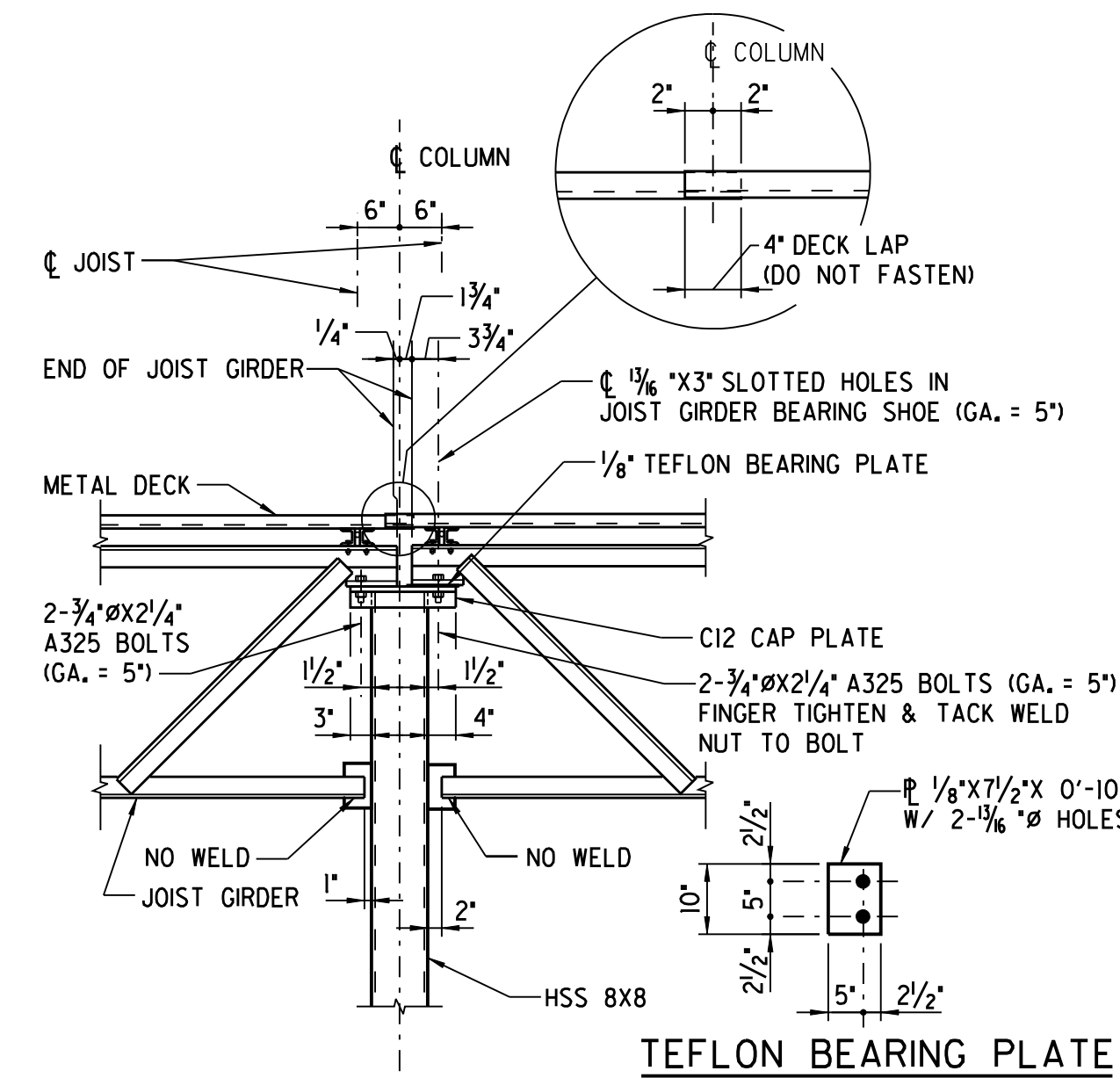
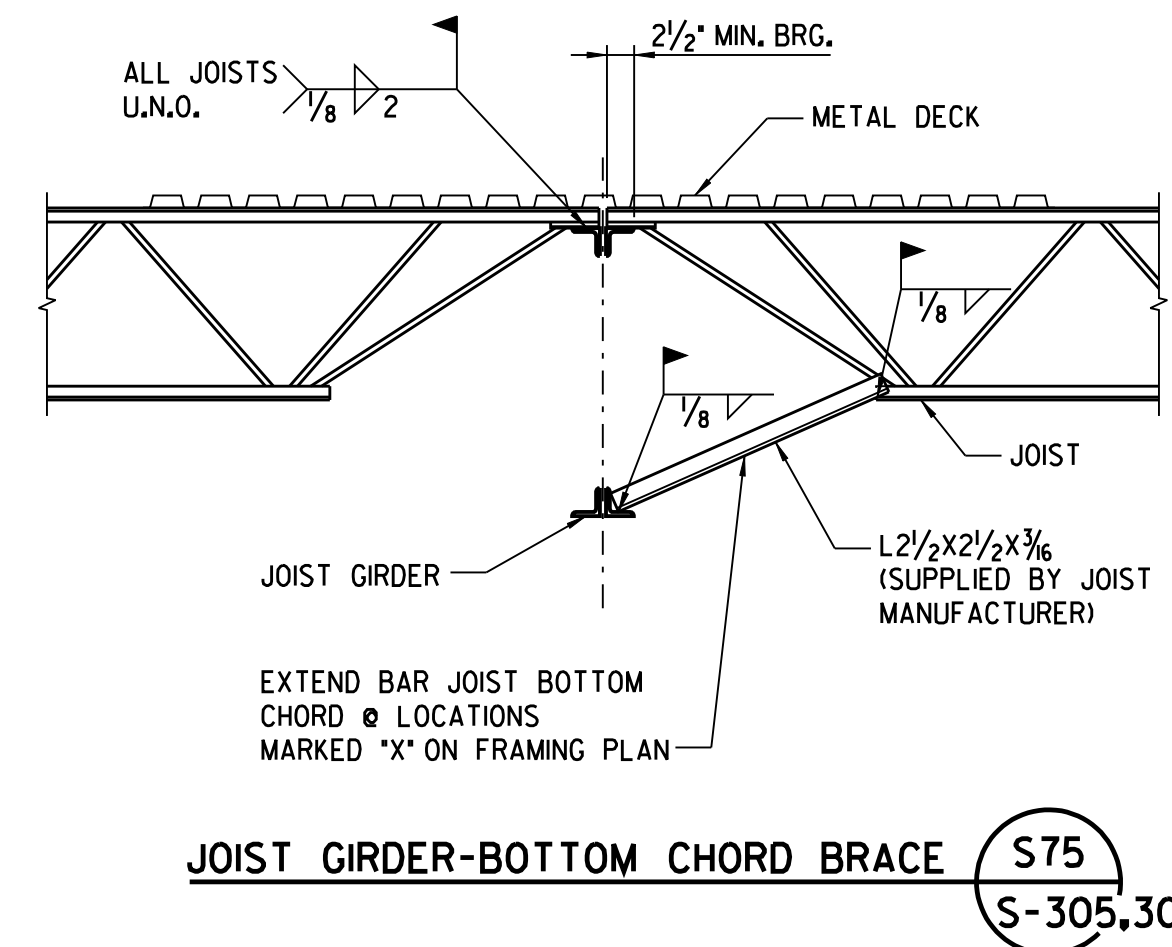
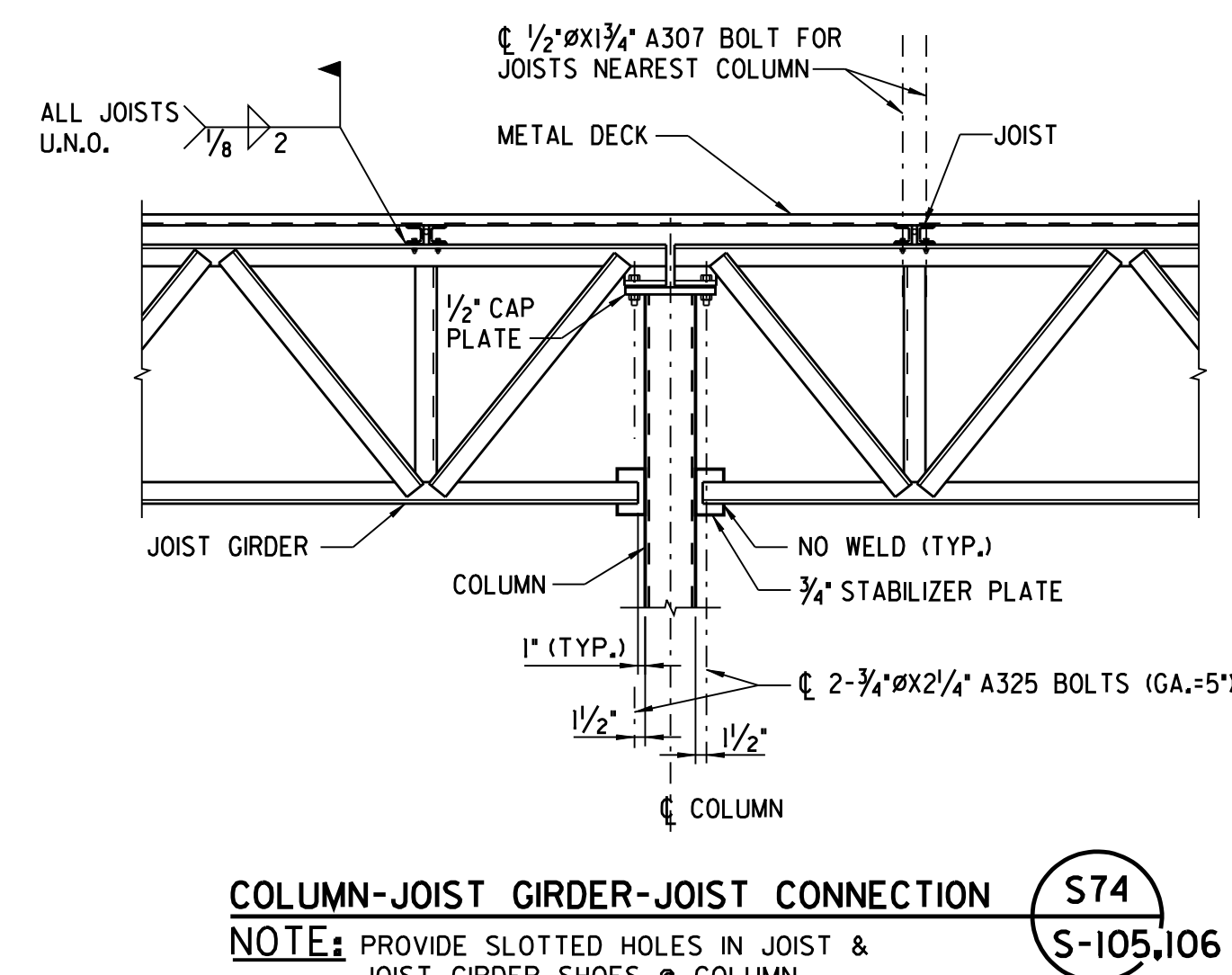
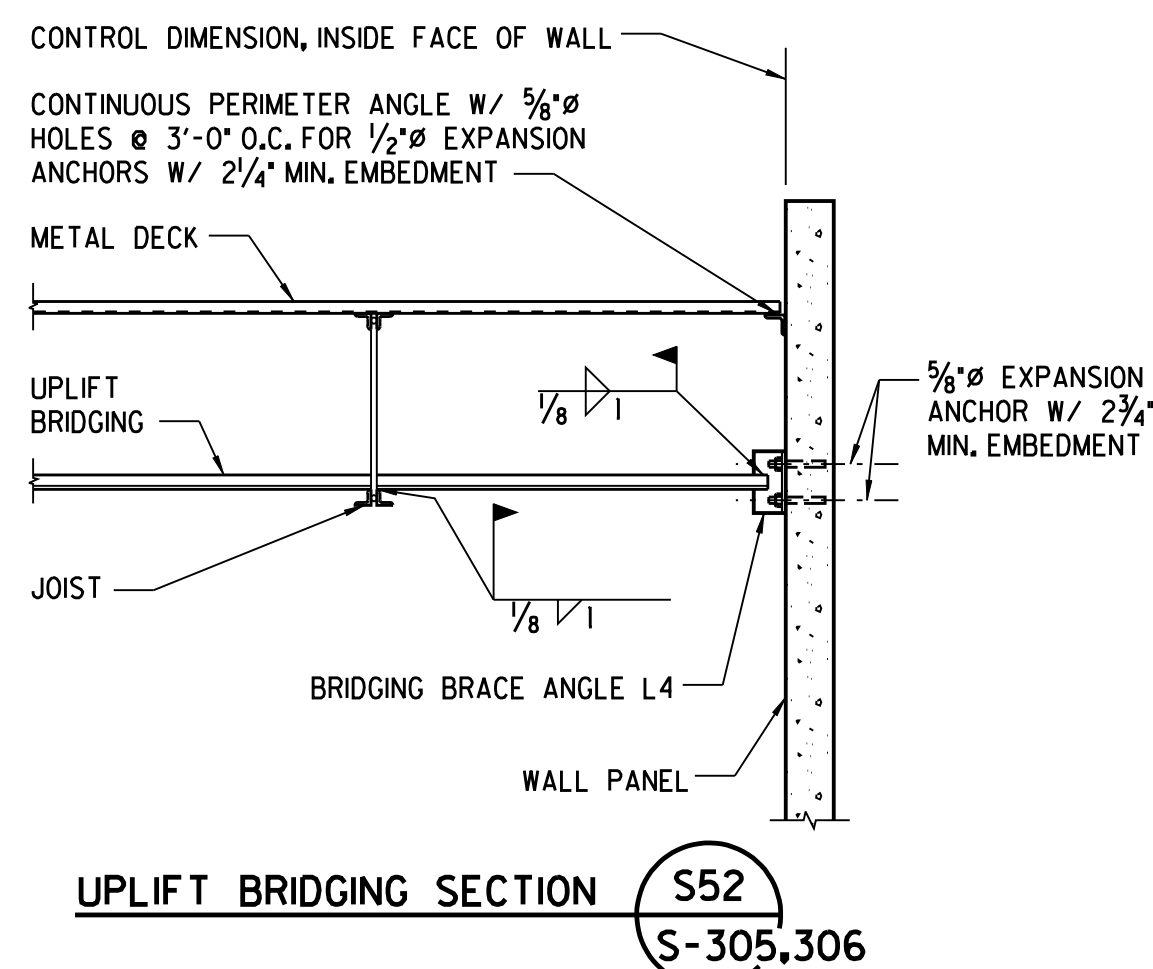
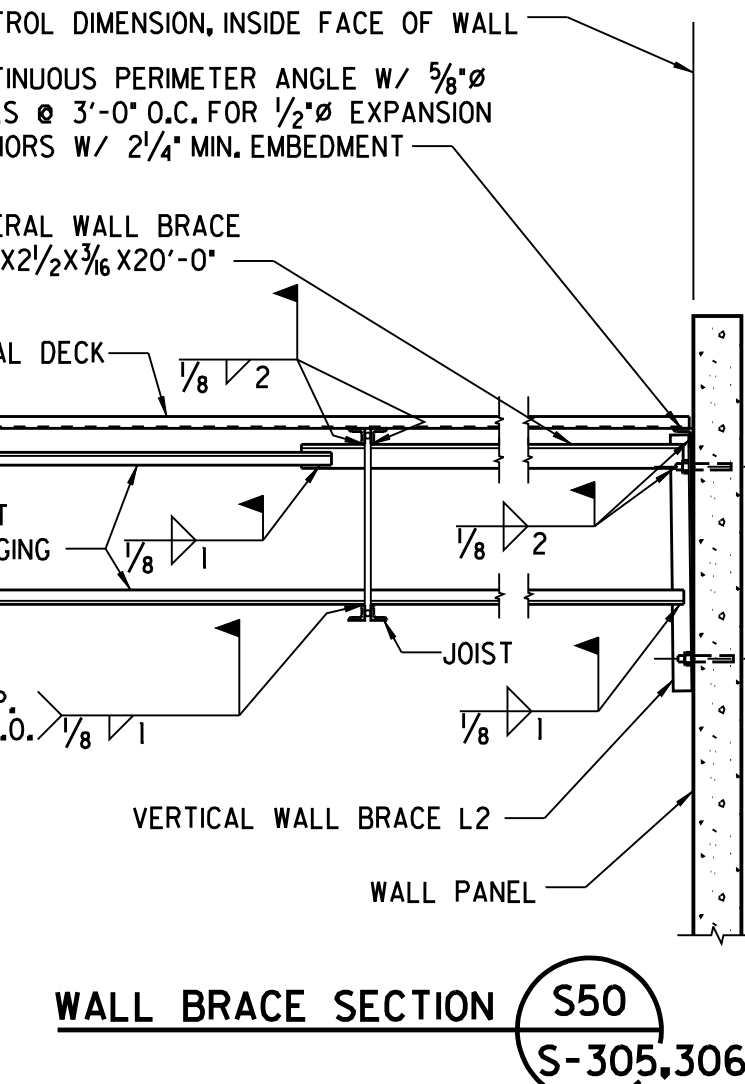
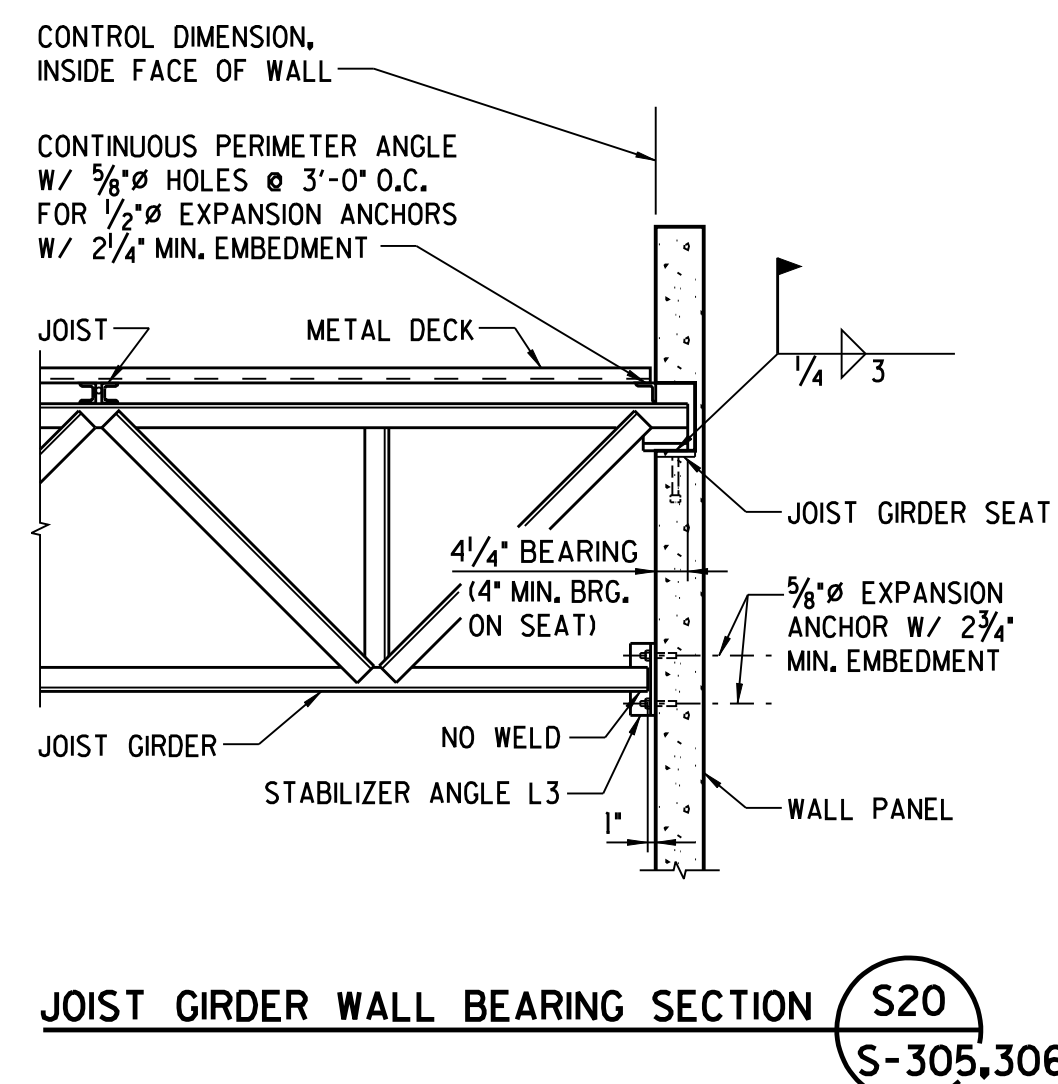
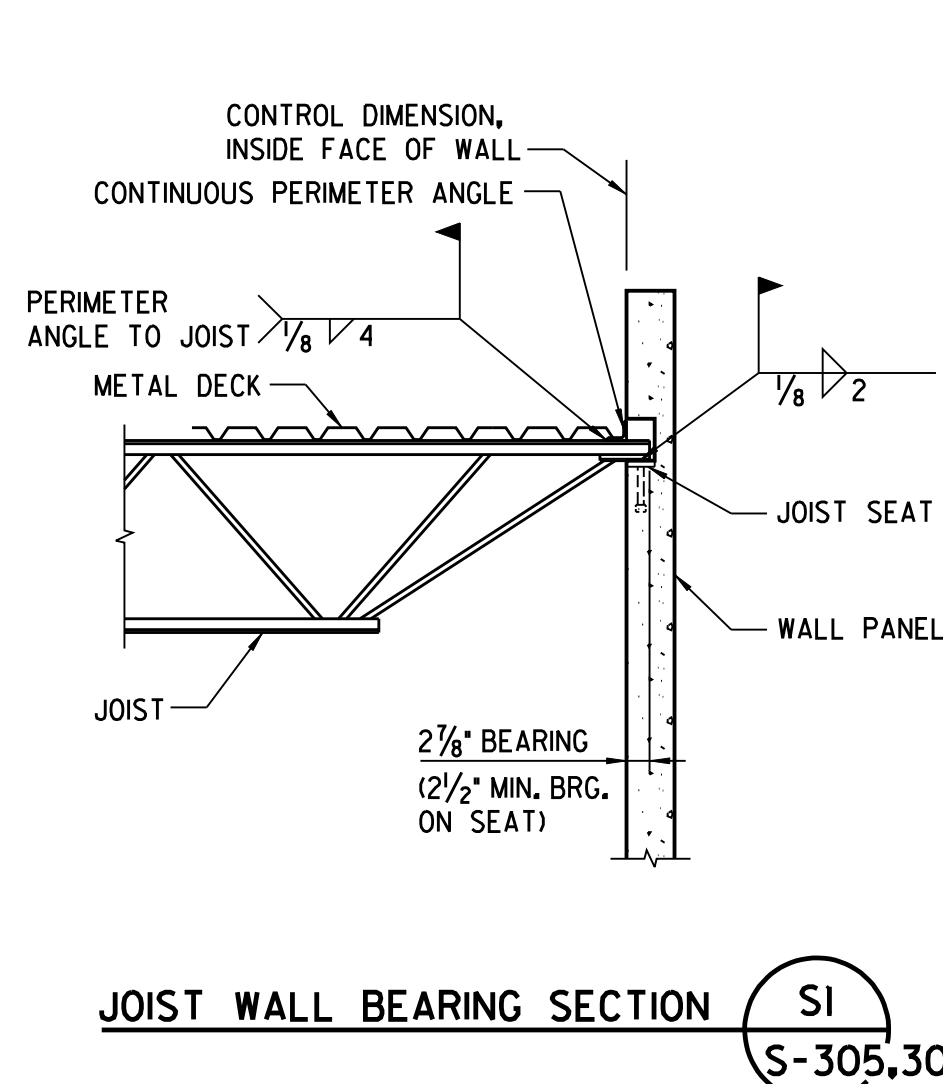
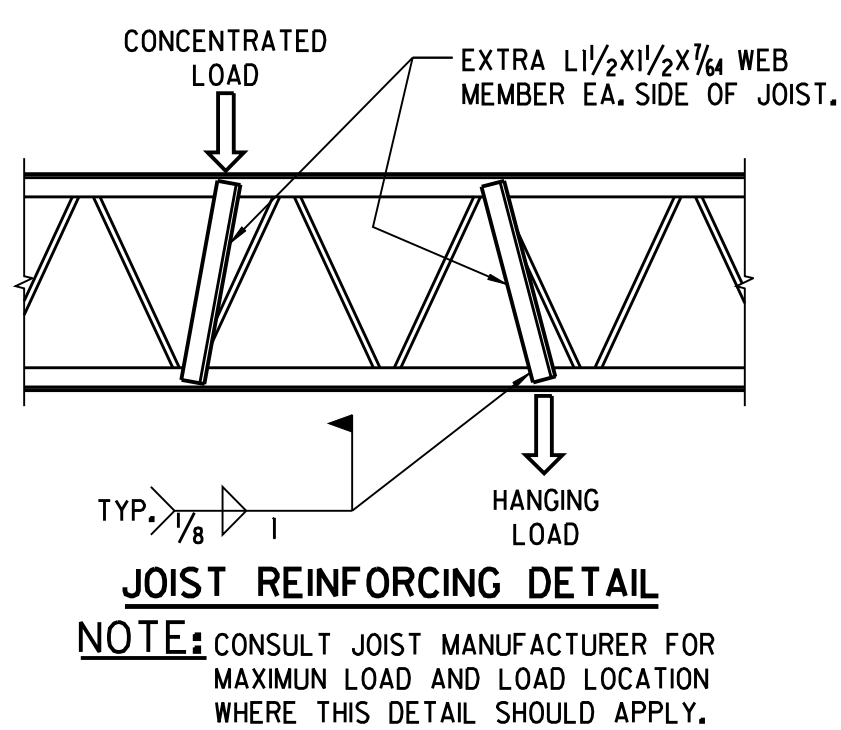
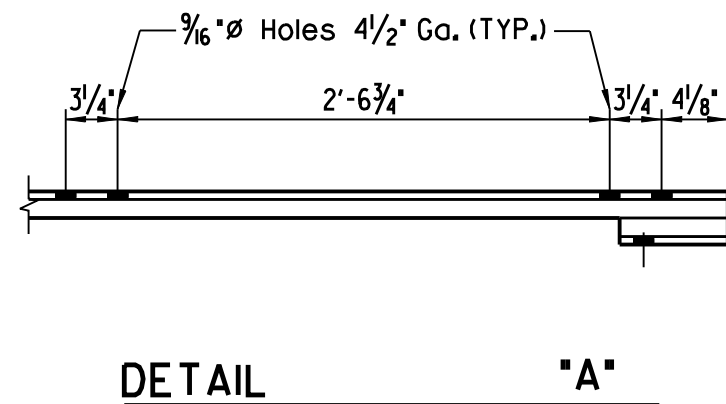
O.t.y.	Mark	Type	O.A.L.	CXL	CXR	BRG.L	BRG.R	BDL	BDR	HL	HR	THL	THR	*	Remarks
2	G301	28G5N15.4K	25'-0 1/4"	5 1/4"	4 3/4"	6"	6 3/4"	7 1/2"	7 1/2"	-	5 1/4"	-	3'-2 1/4"	✓	159 PLF NET UPLIFT
19	G302	36G7N14.5K	39'-11 1/2"	4 3/4"	4 3/4"	6 3/4"	6 3/4"	7 1/2"	7 1/2"	5 1/4"	5 1/4"	3'-2 1/8"	3'-2 1/8"	✓	28 PLF NET UPLIFT
5	G303	36G7N14.5K	39'-11 1/2"	4 3/4"	4 3/4"	6 3/4"	6 3/4"	7 1/2"	7 1/2"	5 1/4"	5 1/4"	3'-2 1/8"	3'-2 1/8"	✓	28 PLF NET UPLIFT W/ADD'L PANEL POINT LOADS
1	G304	36G8N14.5K	39'-11 1/2"	4 3/4"	4 3/4"	6 3/4"	6 3/4"	7 1/2"	7 1/2"	5 1/4"	5 1/4"	3'-2 1/8"	4 1/8"	✓	28 PLF NET UPLIFT W/ADD'L PANEL POINT LOADS
2	G305	36G8N14.5K	39'-10"	4 3/4"	4 1/2"	6 3/4"	7 1/2"	7 1/2"	7 1/2"	5 1/4"	3 3/4"	3'-2 1/8"	2 3/8"	✓	28 PLF NET UPLIFT
8	G306	28G5N14.6K	25'-0 1/4"	5 1/4"	4 3/4"	6"	6 3/4"	7 1/2"	7 1/2"	-	5 1/4"	-	3'-2 1/8"	✓	159 PLF NET UPLIFT
6	G307	36G7N14.6K	39'-11 1/2"	4 3/4"	4 3/4"	6 3/4"	6 3/4"	7 1/2"	7 1/2"	5 1/4"	5 1/4"	3'-2 1/8"	3'-2 1/8"	✓	0 PLF NET UPLIFT
22	G308	44G7N14.6K	39'-11 1/2"	4 3/4"	4 3/4"	6 3/4"	6 3/4"	7 1/2"	7 1/2"	5 1/4"	5 1/4"	3'-2 1/8"	3'-2 1/8"	✓	0 PLF NET UPLIFT
4	G309	44G8N14.6K	39'-11 1/2"	4 3/4"	4 3/4"	6 3/4"	6 3/4"	7 1/2"	7 1/2"	5 1/4"	5 1/4"	3'-2 1/8"	DET. A	✓	0 PLF NET UPLIFT
10	G310	48G7N14.6K	39'-11 1/2"	4 3/4"	4 3/4"	6 3/4"	6 3/4"	7 1/2"	7 1/2"	5 1/4"	5 1/4"	3'-2 1/8"	3'-2 1/8"	✓	0 PLF NET UPLIFT
1	G311	36G8N14.5K	39'-11 1/2"	4 3/4"	4 3/4"	6 3/4"	6 3/4"	7 1/2"	7 1/2"	5 1/4"	5 1/4"	3'-2 1/8"	4 1/8"	✓	28 PLF NET UPLIFT

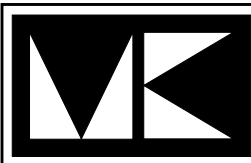



Suggested Remarks

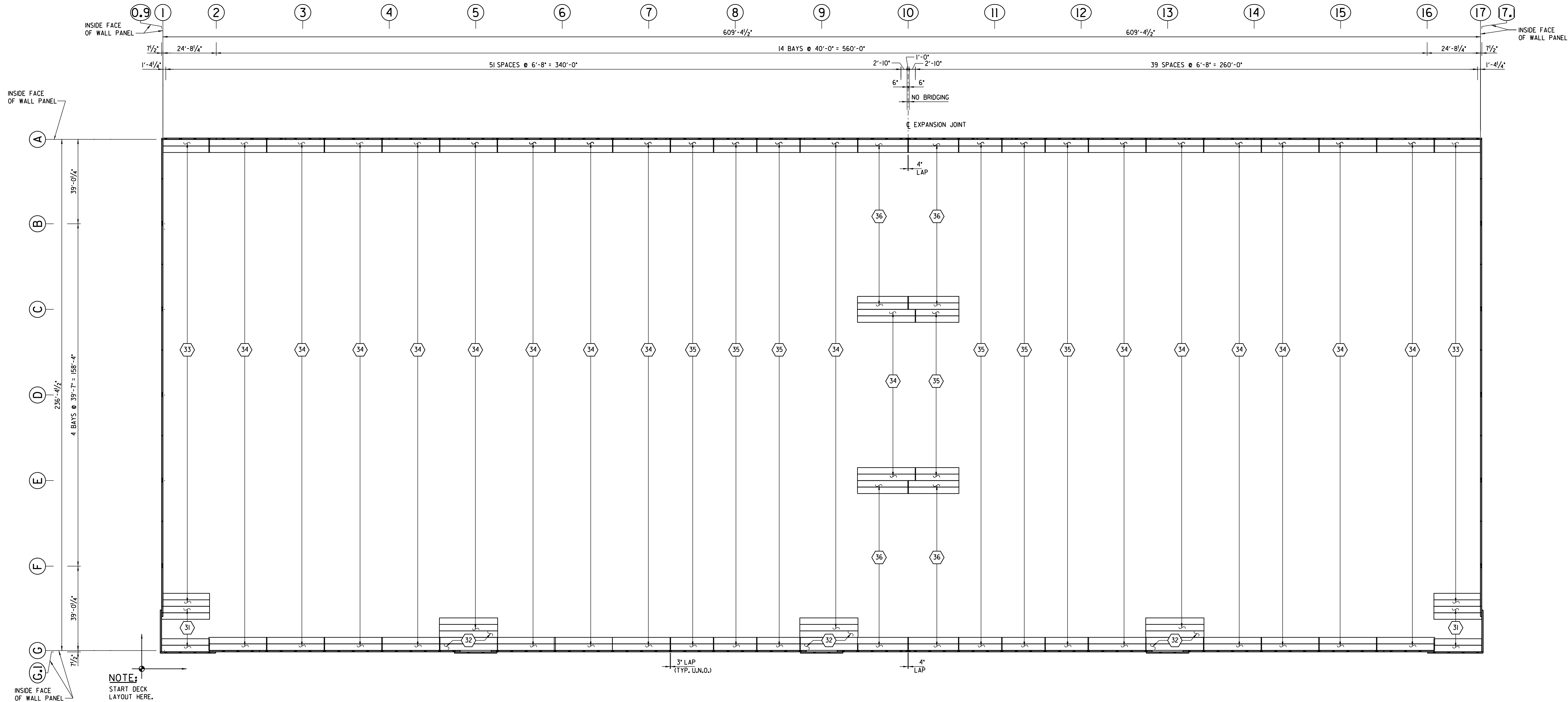
- Net Uplift (PLF)
- Live Load End Moments (Ft.,Kips)
- Slope Of Girder (Indicate Low End)

- Double Pitched (Indicate Slope & Ridge Location)
- Single Pitched (Indicate Slope)
- Wind End Moments (Ft.,Kips)

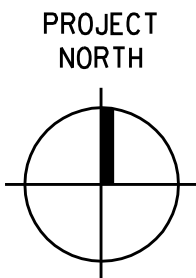
***Check This Box If Weight Of Girder Has Been Added To Kip Load**



2	8-22-03	RELEASED FOR CONSTRUCTION
1	7-25-03	RELEASED FOR PERMIT
REVISIONS		
 MORGAN-KELLER, INC. Design / Build Construction Services		
70 Thomas Johnson Drive • Frederick, Maryland 21702 301-663-0626		
Architect:  NuTec Design associates, inc.		
Structural:  CON/STEEL® TILT-UP SYSTEMS		
 JJJB Inc. • 3100 Rockwood Blvd., P.O. Box 20246 Dayton, OH 45420-0246 (937) 259-5000 tel • (937) 259-5100 fax • jjjb.com		
<div style="text-align: center;"> <h1>WEDGEWOOD IV</h1> <h1>BUSINESS CENTER</h1> </div>		
FREDERICK COUNTY,		MARYLAND
BUILDING THREE		
FRAMING DETAILS		
SCALE		FILE NAME
DRAWN BY	JJS	AR NO.
CHECKED BY	JUG	20499
CONTACT		SHEET NO.
DATE	JULY 03	S-307
		REV.



BUILDING THREE ROOF DECK LAYOUT



MATERIAL LIST					
1/2" TYPE B ROOF DECK 20 GA. 36" COVERAGE CONTRACTOR VERIFY PAINT COLOR			1/2" TYPE B ROOF DECK 22 GA. 36" COVERAGE CONTRACTOR VERIFY PAINT COLOR		
MARK	NO. PIECES	LENGTH	MARK	NO. PIECES	LENGTH
31	12	22'-11/4"	33	146	21'-5 3/4"
32	9	26'-11"	34	1203	26'-11"
			35	501	20'-3"
			36	108	23'-7 1/2"

MORGAN-KELLER, INC.
Design / Build
Construction Services
70 Thomas Johnson Drive • Frederick, Maryland 21702
301-663-0626

Architect: **NJ** NuTec Design associates, inc.

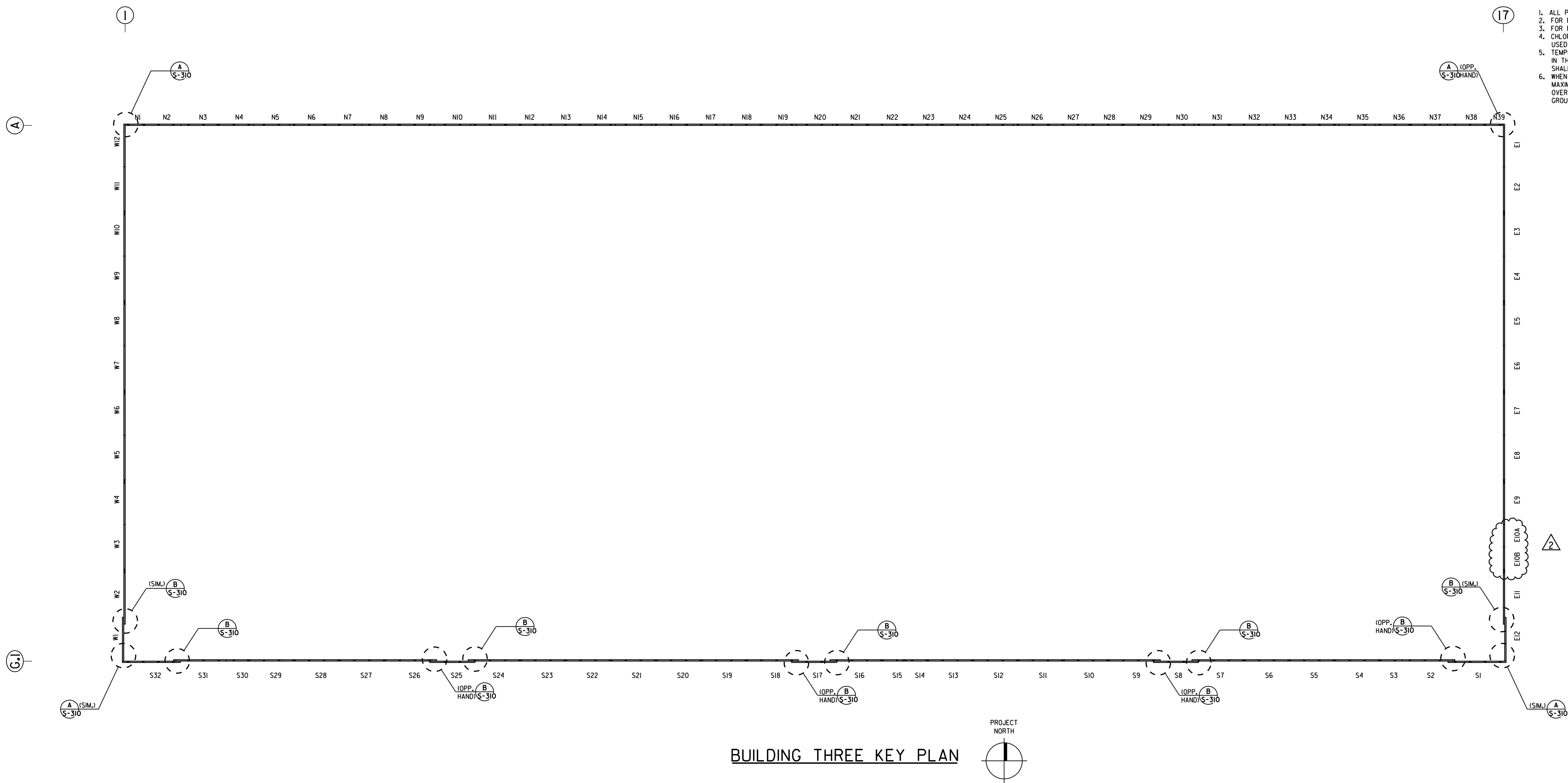
Structural: **CON/STEEL** TILT-UP SYSTEMS
LTB LTB Inc. • 3100 Research Blvd. • P.O. Box 20246
Dayton, OH 45420-0246
(937) 259-5000 tel • (937) 259-5100 fax • [lbt@lbt.com](mailto:ltb@lbt.com)

**WEDGEWOOD IV
BUSINESS CENTER**

FREDERICK COUNTY, MARYLAND

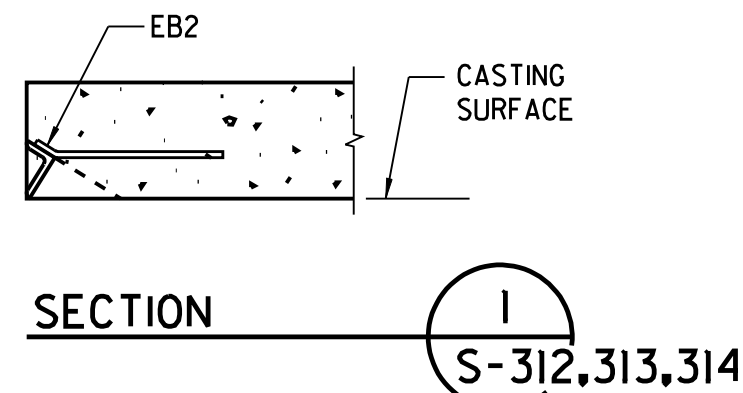
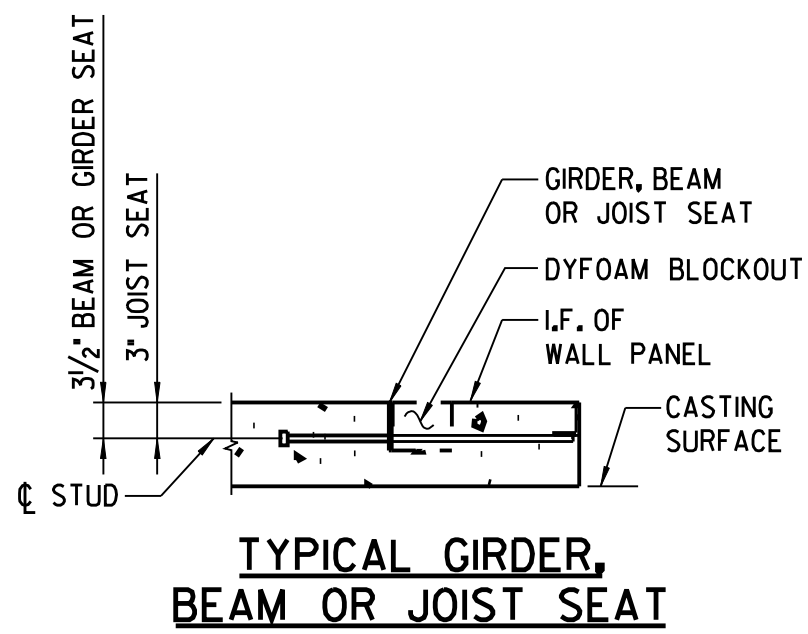
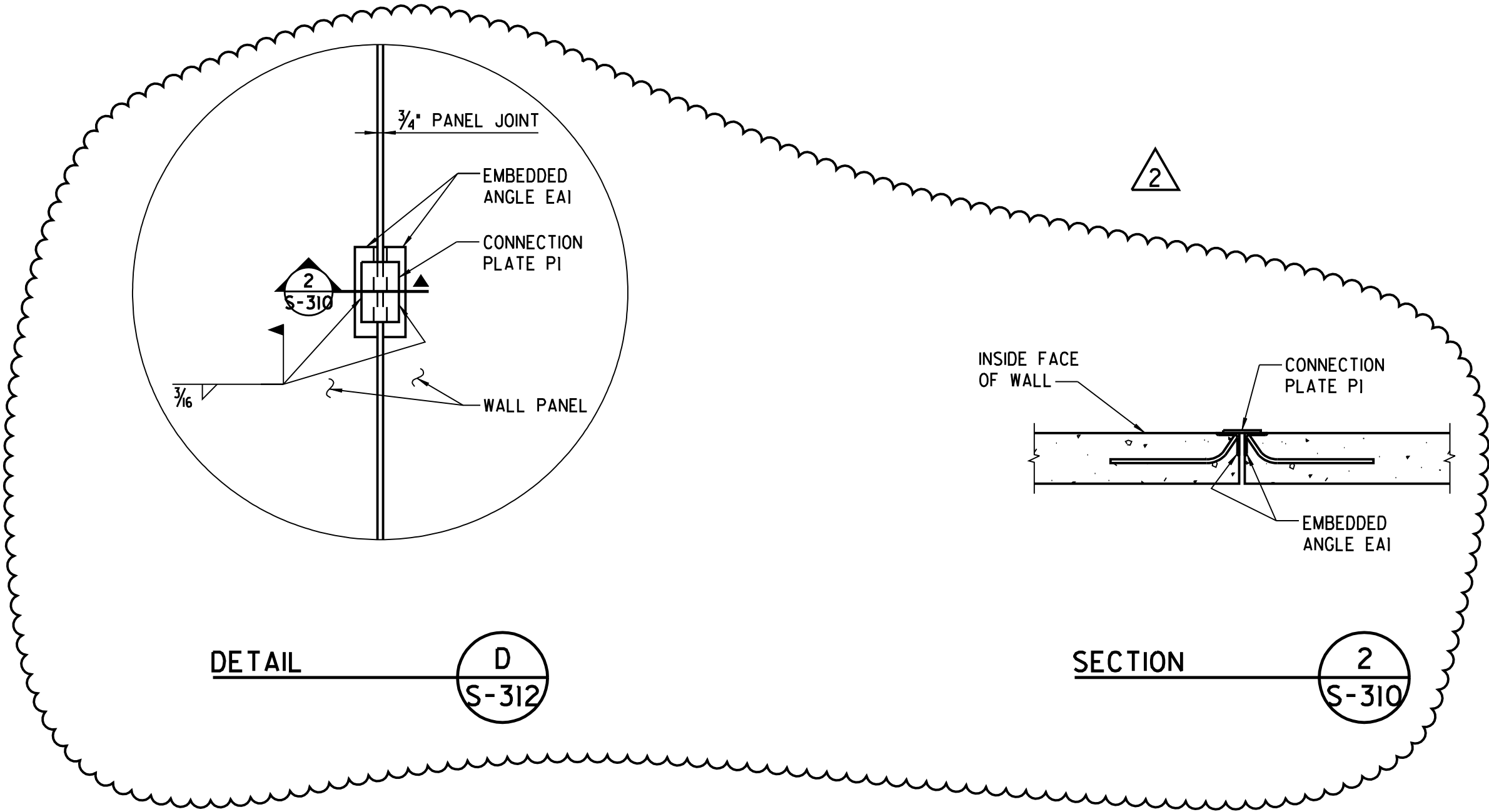
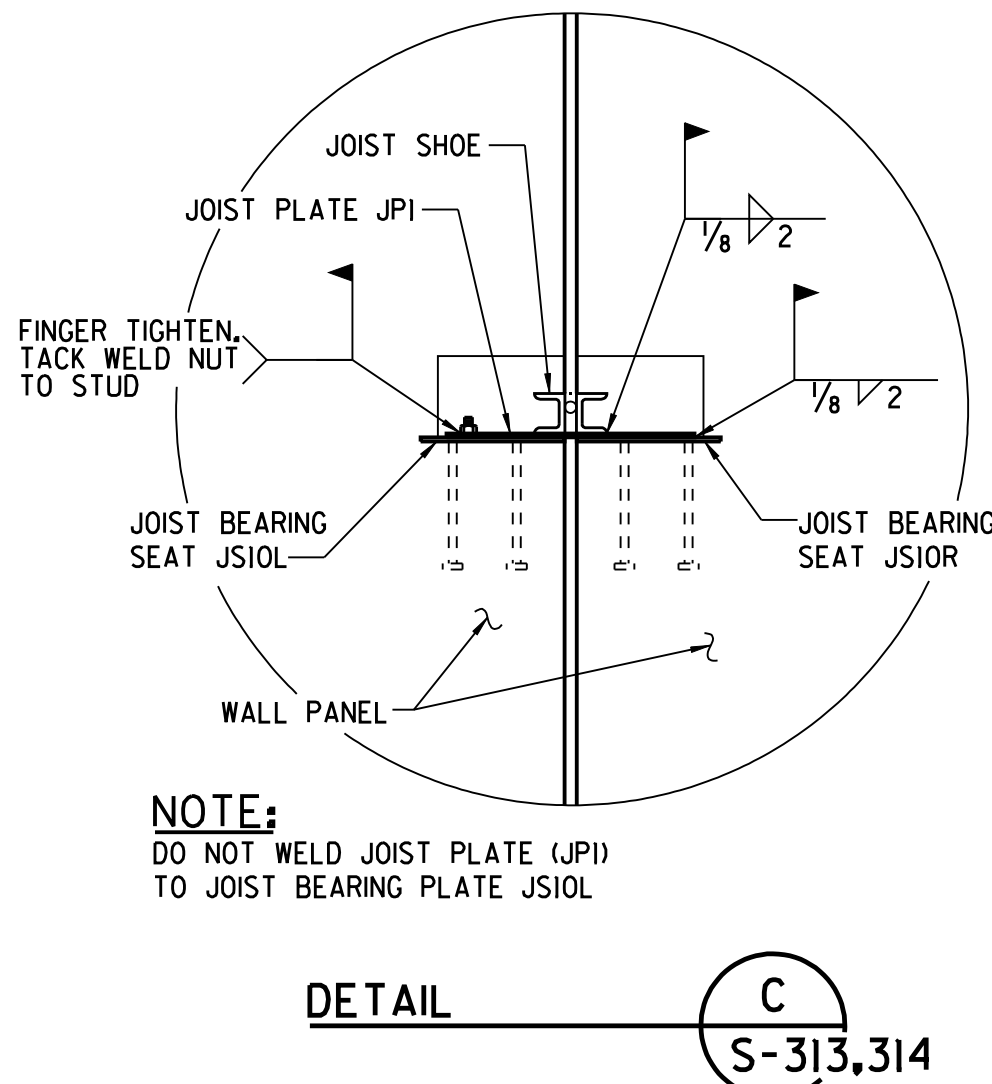
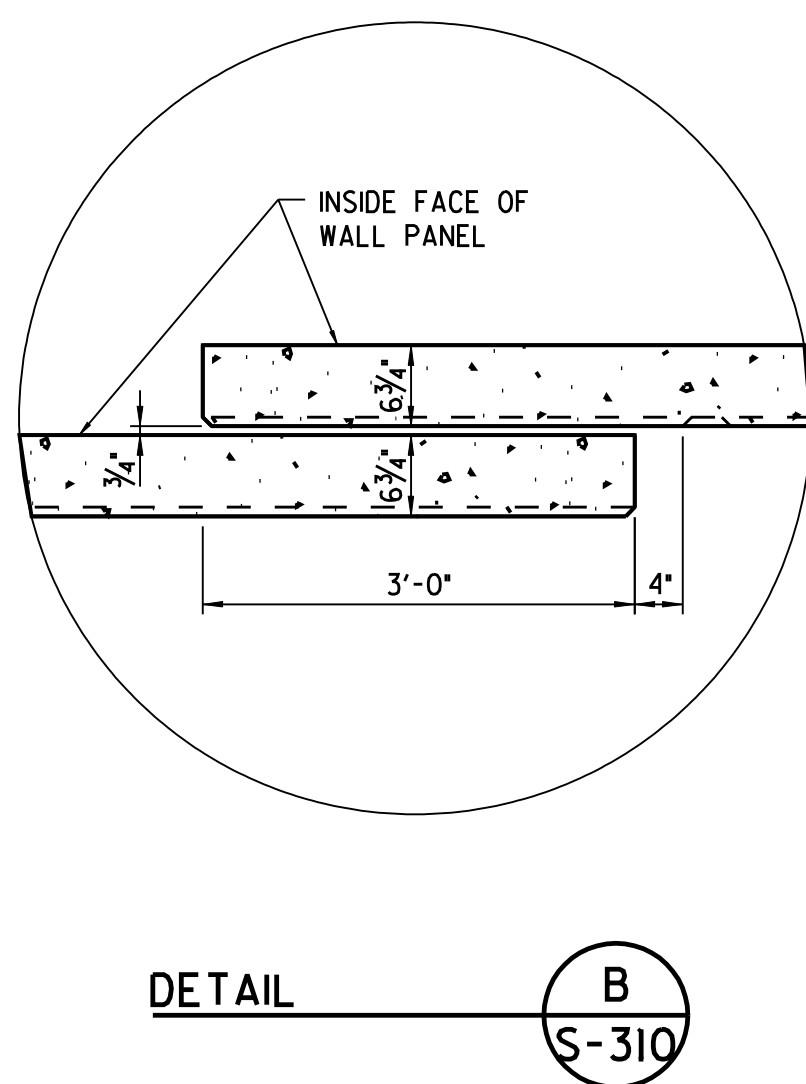
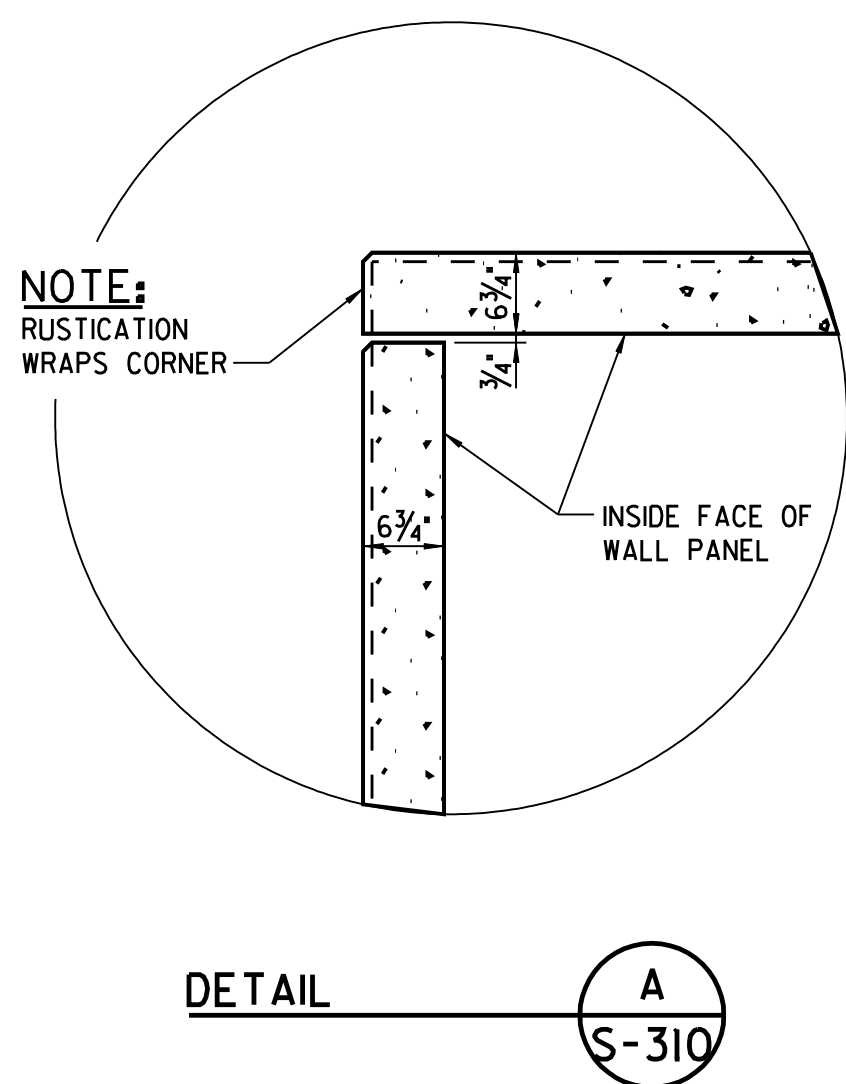
**BUILDING THREE
ROOF DECK LAYOUT**

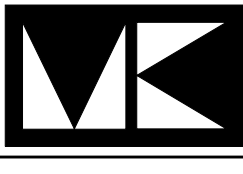



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CHECKED BY JJS	SHEET NO. S-308
DATE JULY 03	REV.

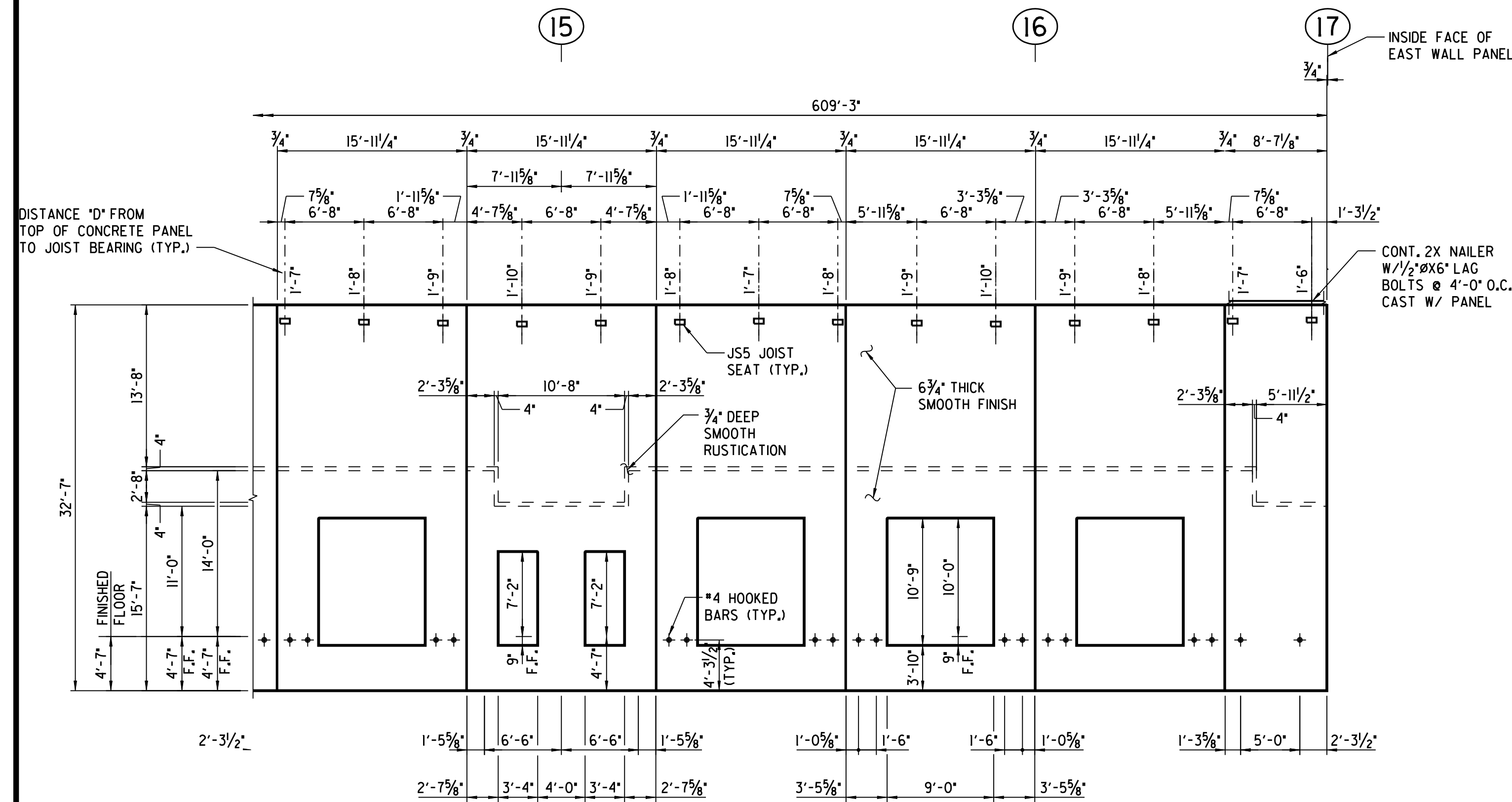


PANEL LAYOUT NOTES

1. ALL PANELS SHOWN OUTSIDE FACE DOWN.
2. FOR REINFORCING STEEL PLACEMENT SEE PANEL REINFORCING SHEET(S).
3. FOR PANEL LIFTING INSERT LOCATIONS SEE LIFTING INSERT SHEET(S).
4. CHLORIDE BASED ADMIXTURES ARE PROHIBITED IN CONCRETE USED FOR WALL PANELS.
5. TEMPORARY BRACING SHALL BE PROVIDED FOR WALL PANELS IN THE ERECTED POSITION. INSTALLATION OF WALL BRACES SHALL MEET ALL REQUIREMENTS OF THE BRACE SUPPLIER.
6. WHEN CUTTING FUTURE OPENINGS AT THE LOCATIONS SHOWN, THE MAXIMUM OVERCUT PERMITTED AT THE CORNERS IS 5". THESE OVERCUTS SHALL BE GROUTED SOLID WITH NON-SHRINK, NON-METALLIC GROUT UPON THE REMOVAL OF THE CUT OUT SECTION.

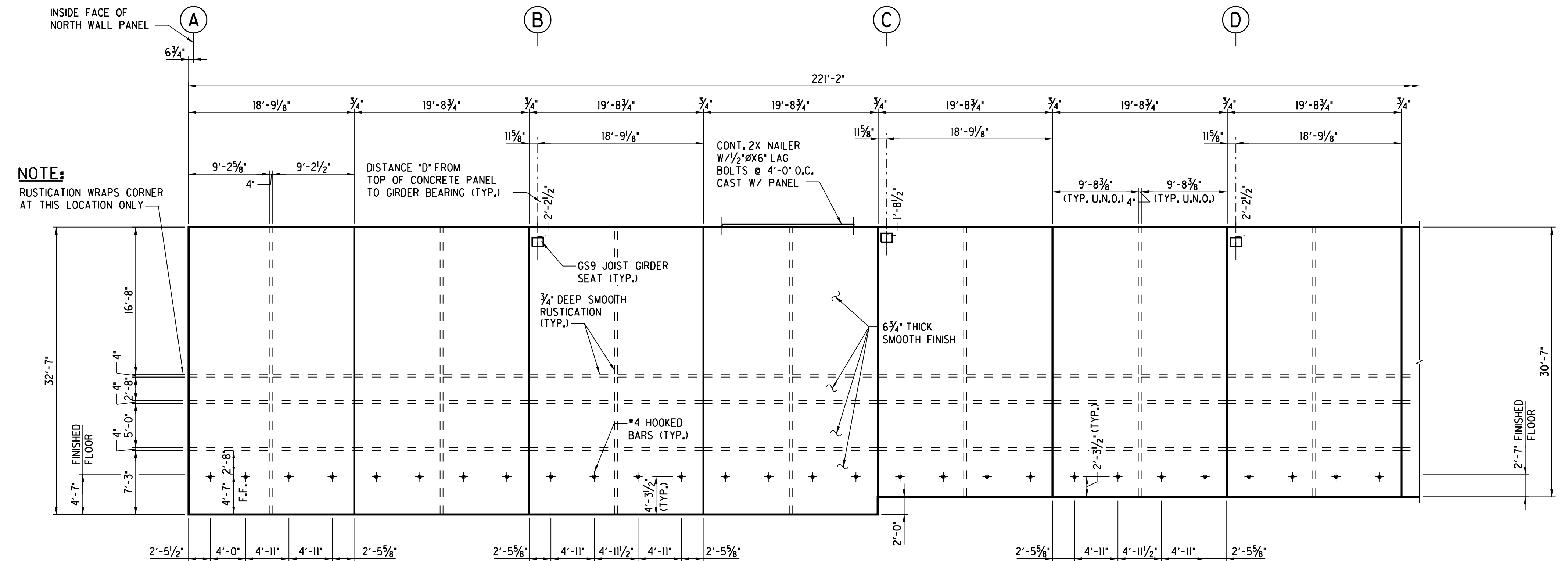


2		11-13-03	REVISED PANEL E10
1		8-22-03	RELEASED FOR CONSTRUCTION
REVISIONS			
 MORGAN-KELLER, INC. Design / Build Construction Services 70 Thomas Johnson Drive • Frederick, Maryland 21702 301-663-0626			
Architect:  NJTec Design associates, inc.			
Structural:  CON/STEEL TILT-UP SYSTEMS			
 LJB Inc. • 3100 Research Blvd. • P.O. Box 20246 Dayton, OH 45420-0246 (937) 259-5000 tel • (937) 259-5100 fax • ljbinc.com			
WEDGEWOOD IV BUSINESS CENTER			
FREDERICK COUNTY, MARYLAND			
BUILDING THREE WALL PANEL KEY PLAN			
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CHECKED BY JJS		SHEET NO. S-310	
DATE JULY 03		REV.	



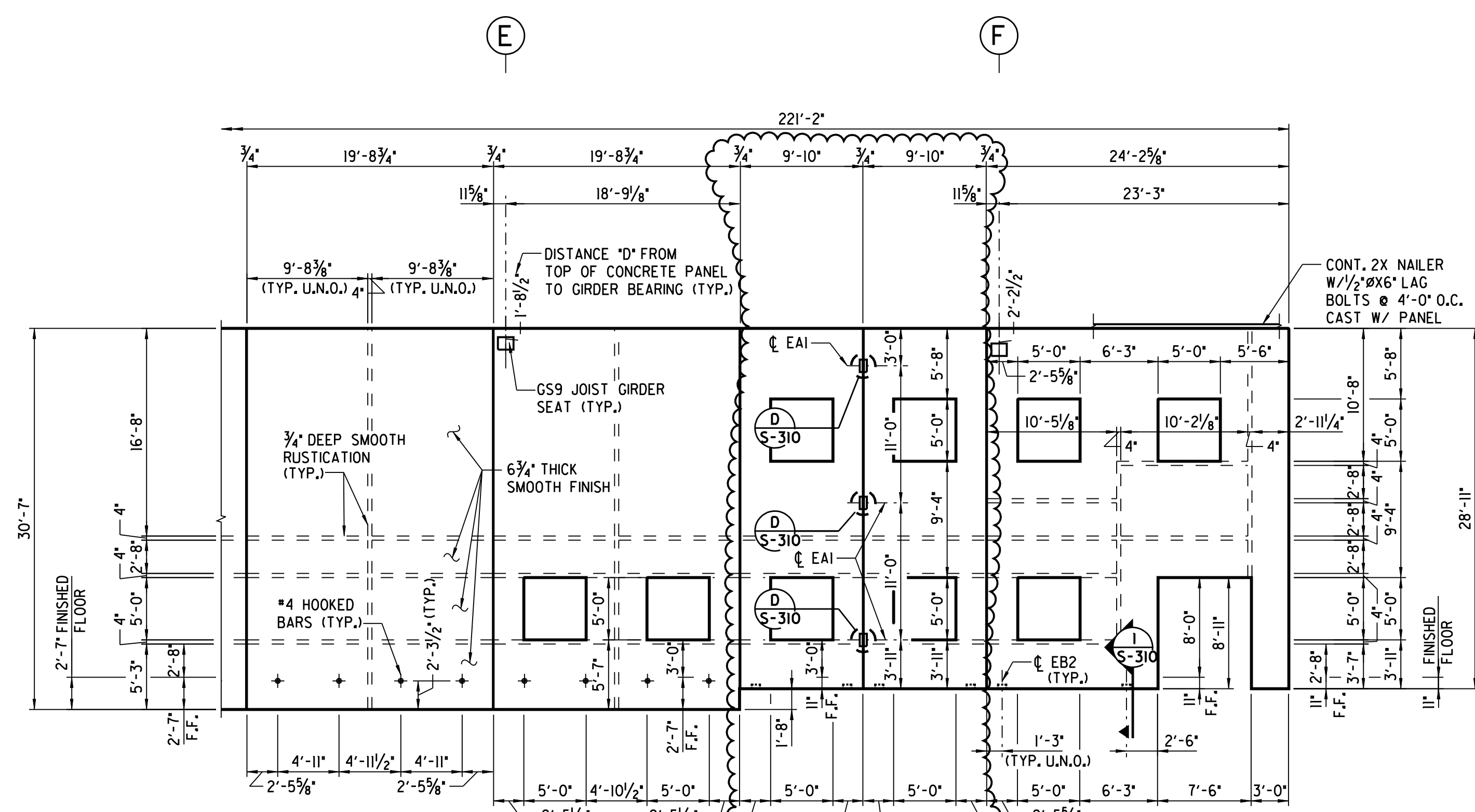
N34 (N37) N35 N36 (N37) N37 N38 (N37) N39

REFERENCE PANEL FOR #4 HOOKED BAR LOCATIONS (TYP.)
NORTH WALL
6 3/4" THICK SMOOTH FINISH
3/4" DEEP SMOOTH RUSTICATION



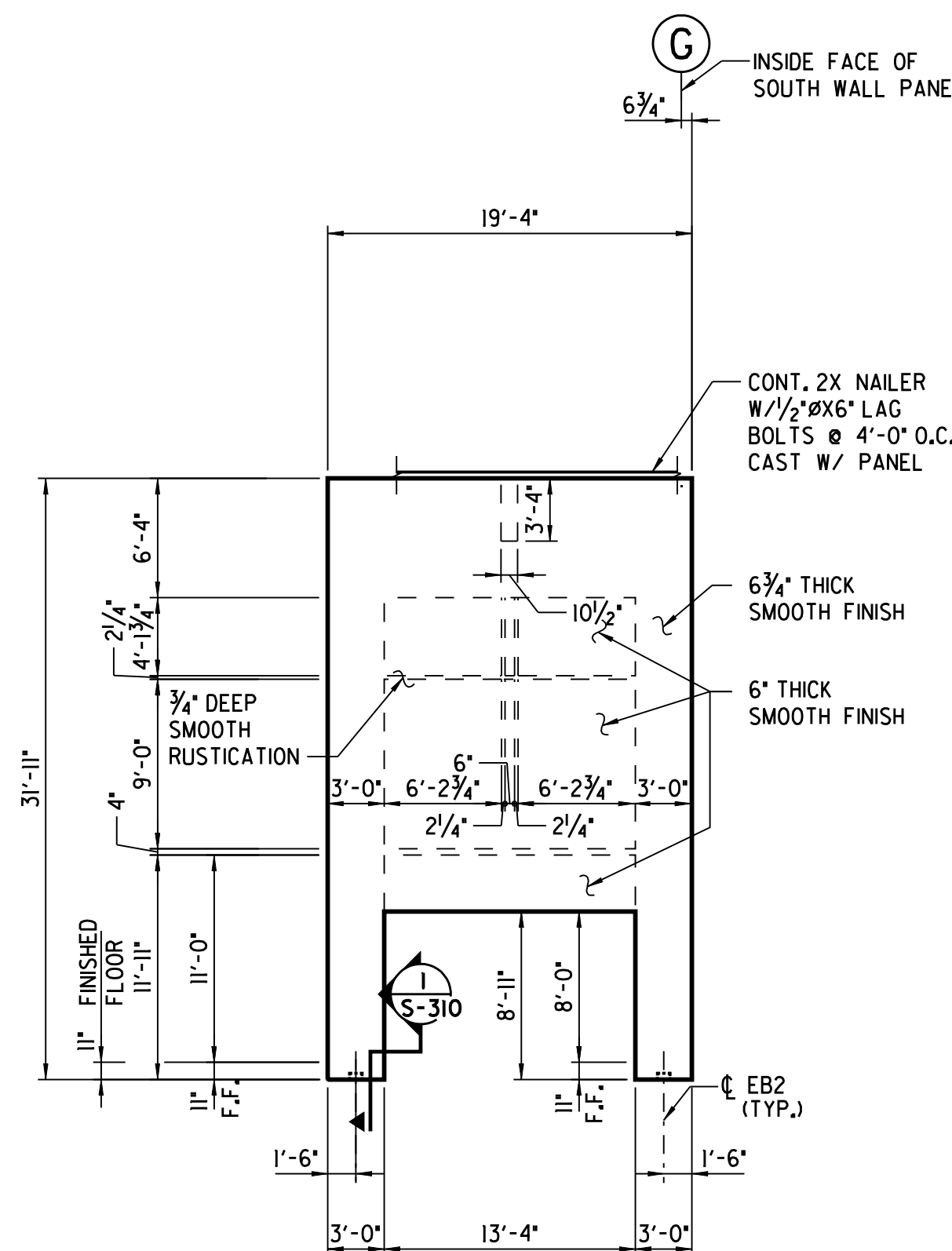
E1 E2 (E3) E3 E4 (E3) E5 (E6) E6 E7 (E6)

REFERENCE PANEL FOR #4 HOOKED BAR LOCATIONS (TYP.)
EAST WALL
6 3/4" THICK SMOOTH FINISH
3/4" DEEP SMOOTH RUSTICATION



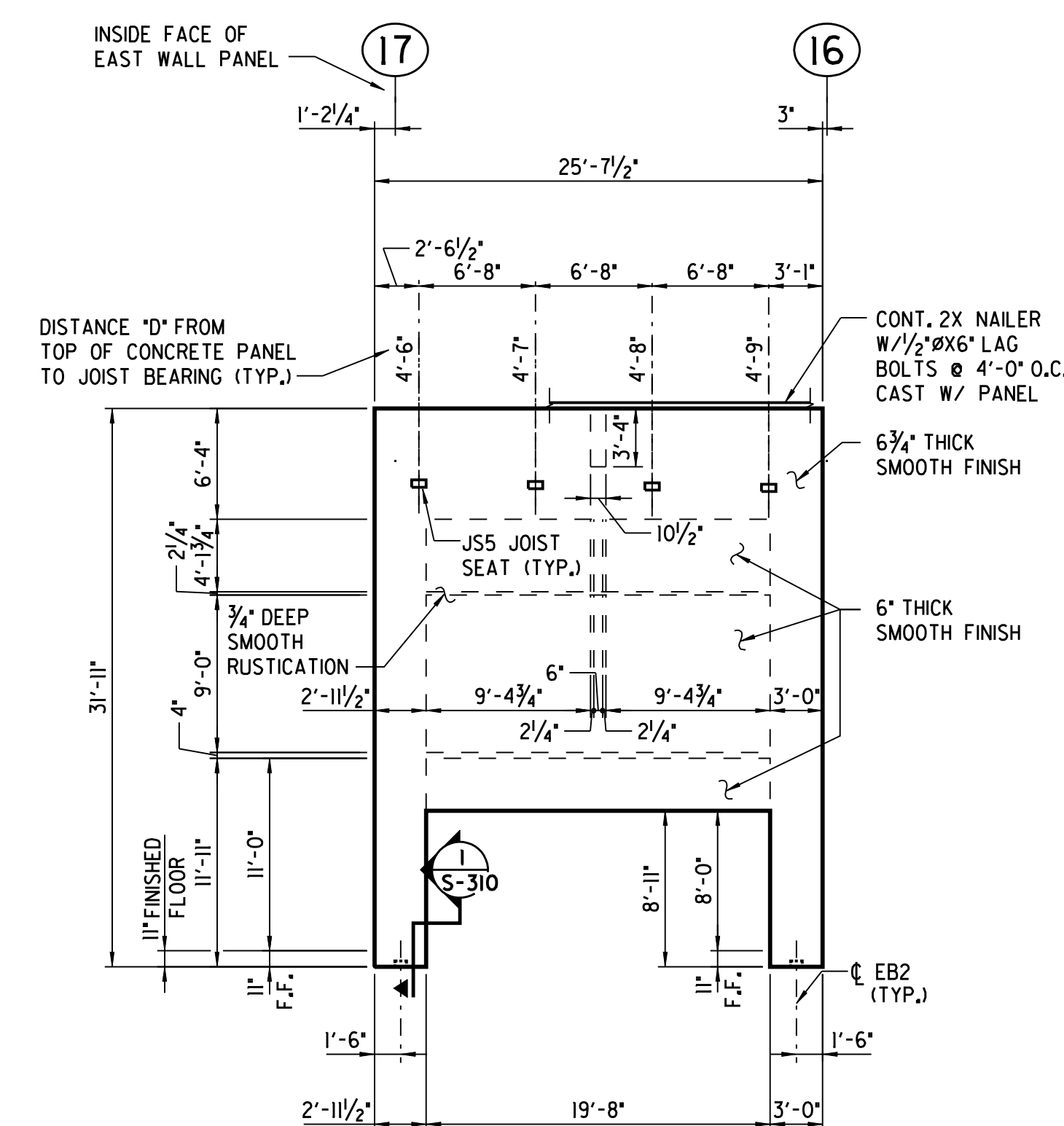
E8 E9 (E8) E10A E10B E11

REFERENCE PANEL FOR #4 HOOKED BAR LOCATIONS (TYP.)
EAST WALL
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3/4" DEEP SMOOTH RUSTICATION



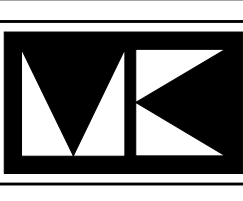

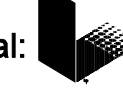

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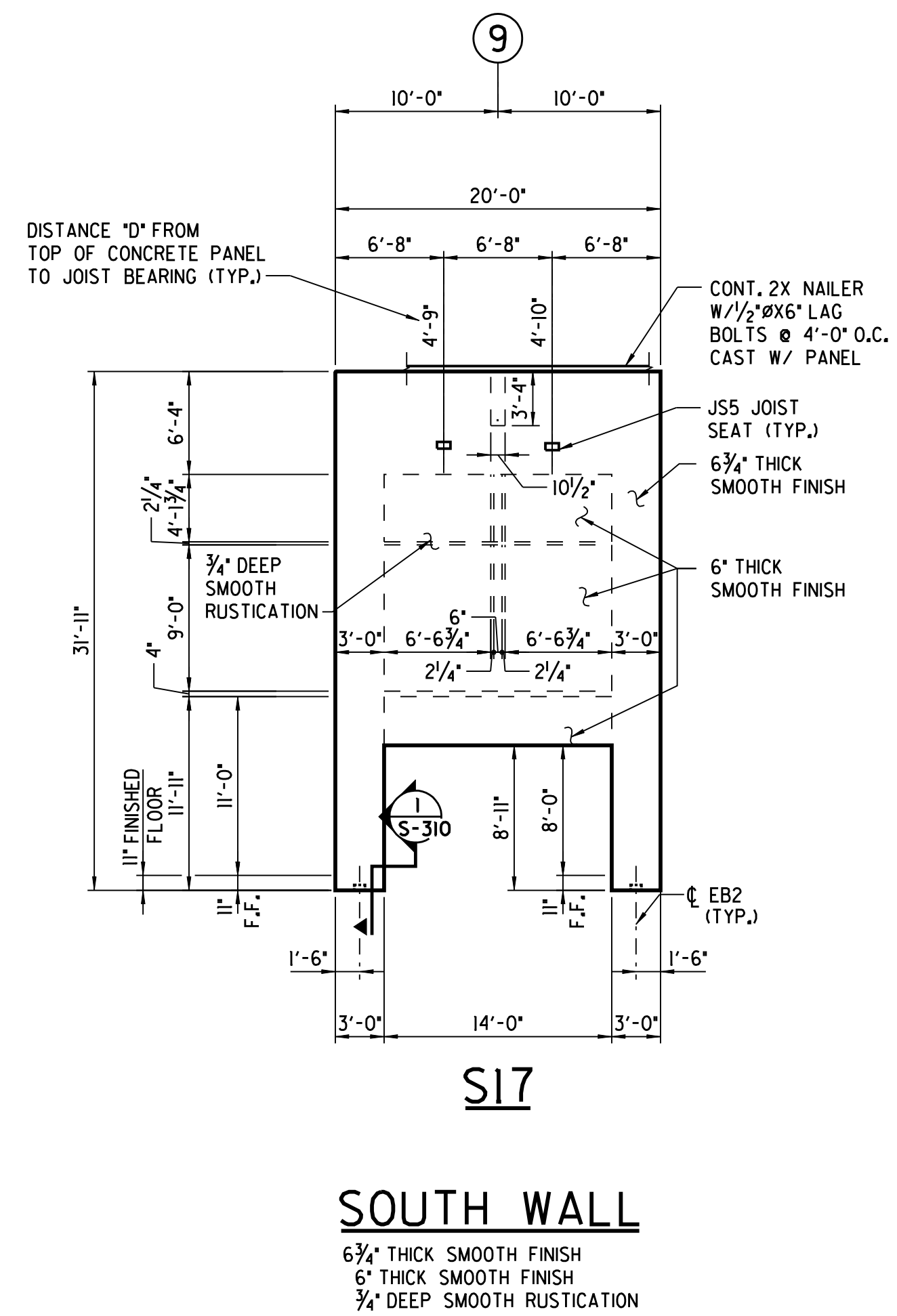
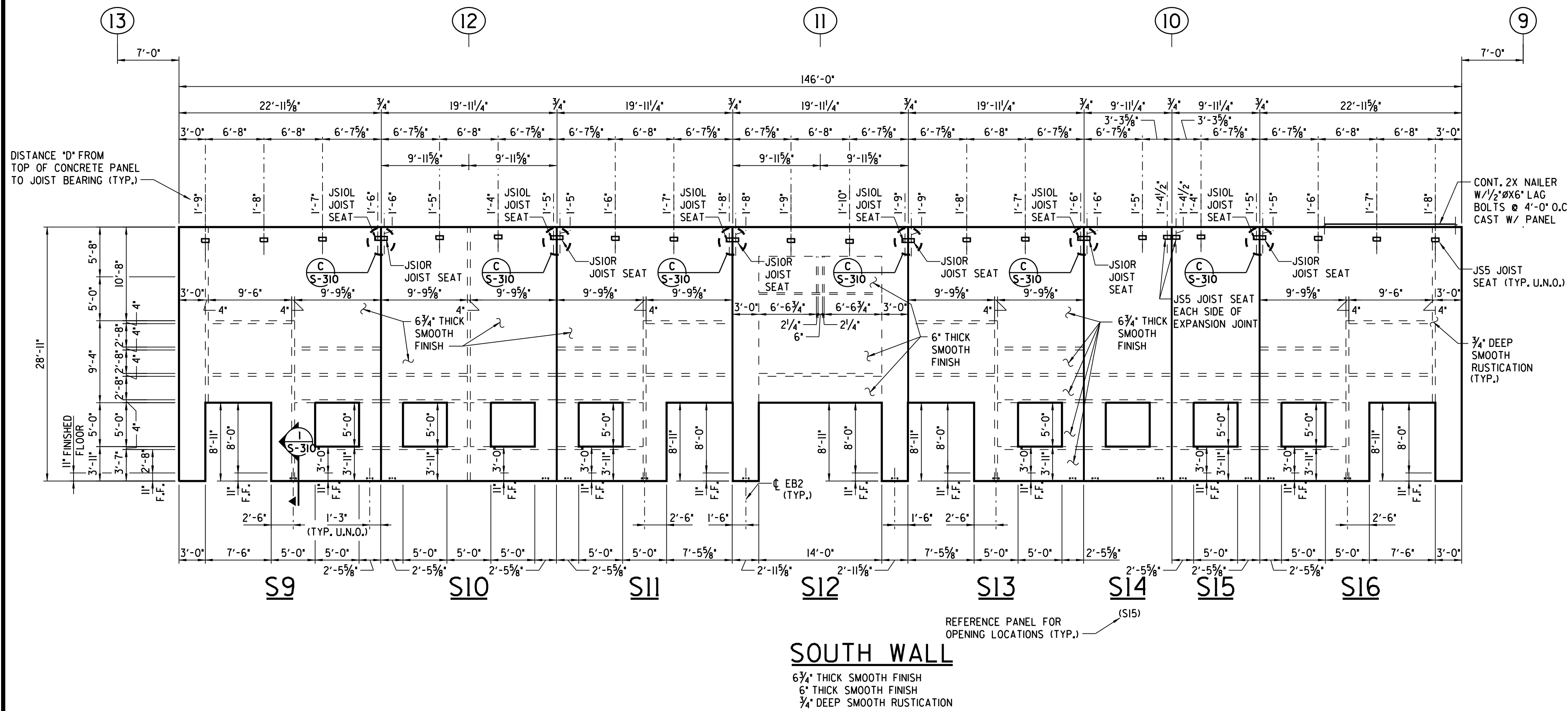
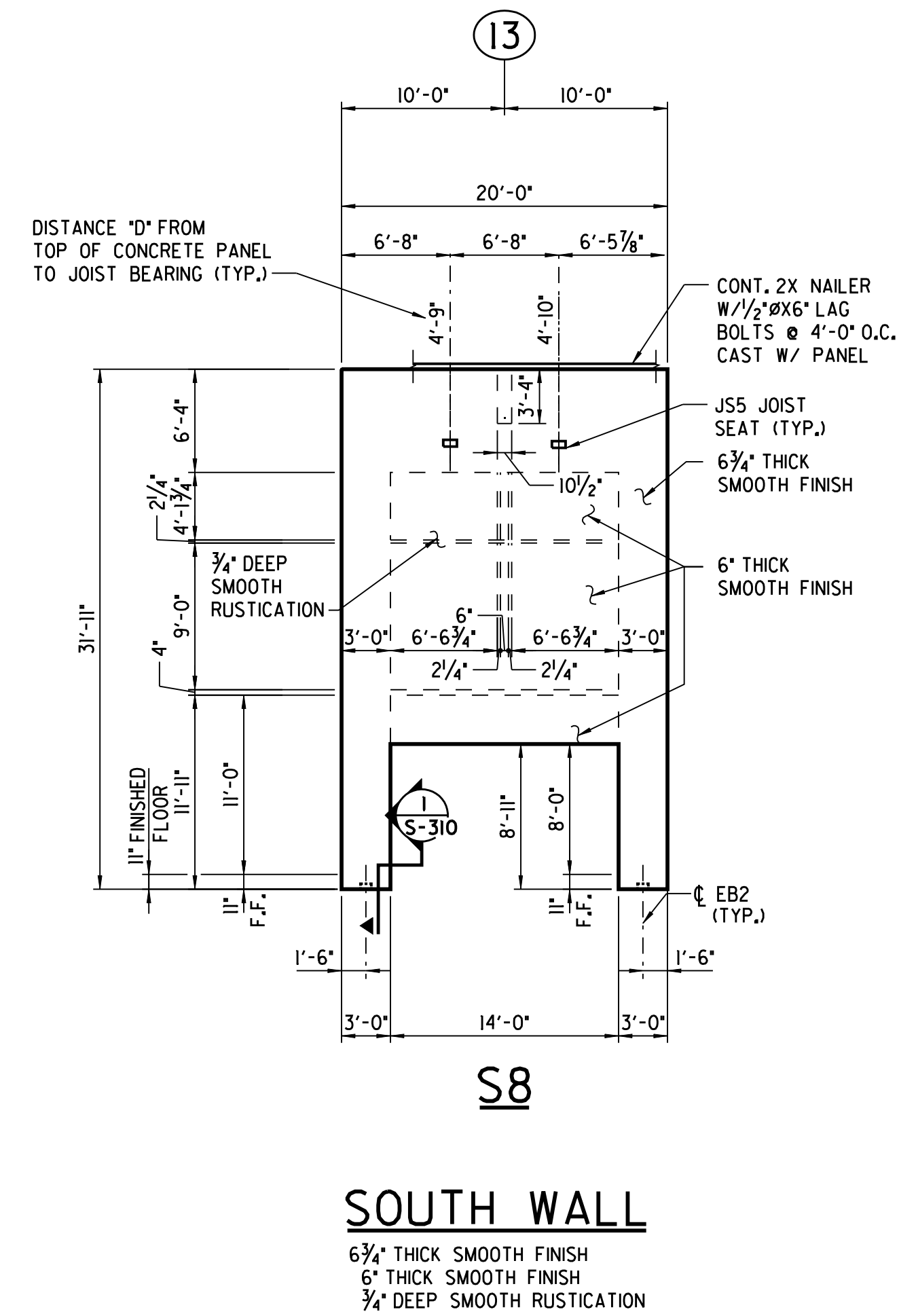
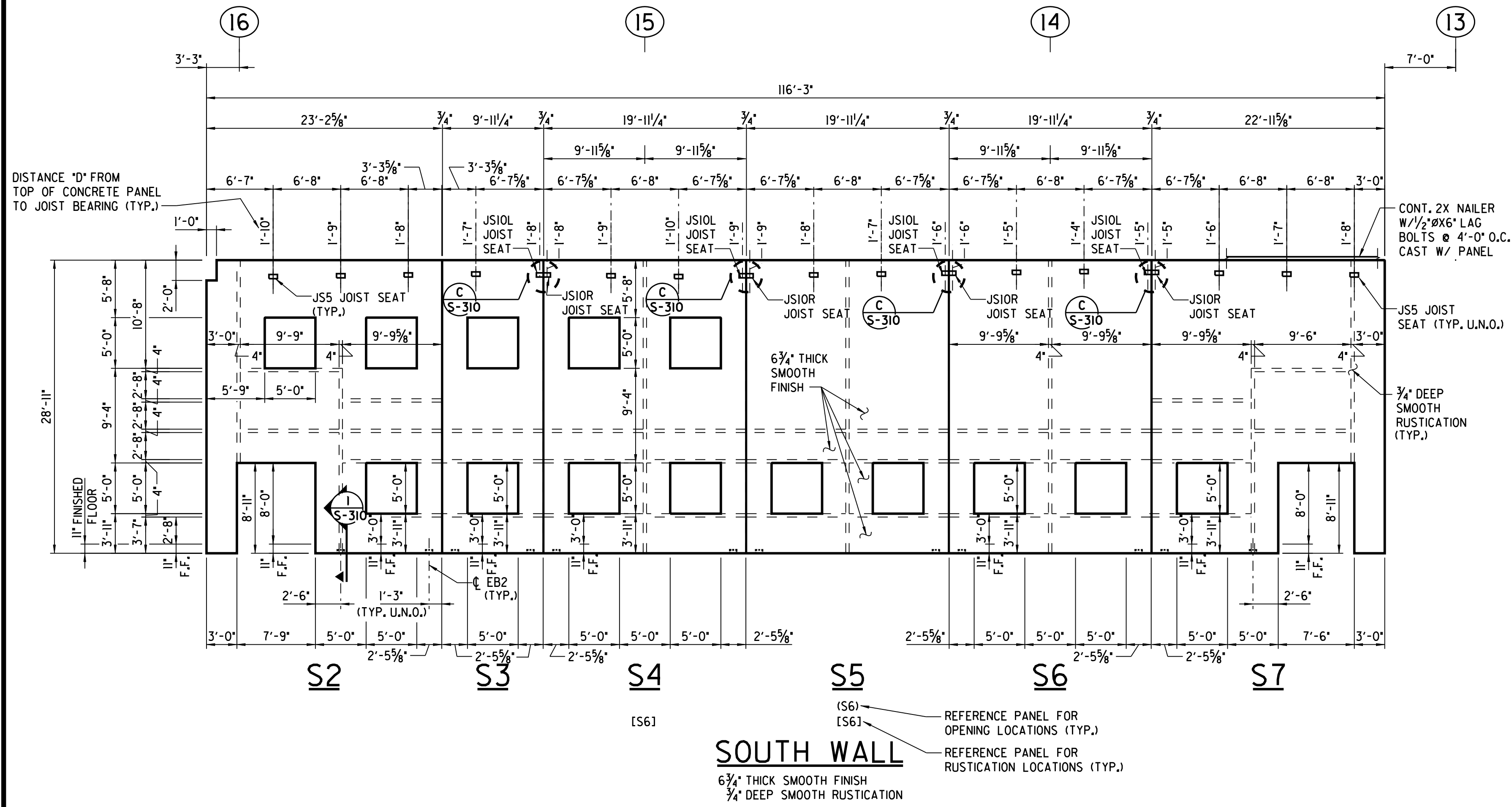
EAST WALL
6 3/4" THICK SMOOTH FINISH
6" THICK SMOOTH FINISH
3/4" DEEP SMOOTH RUSTICATION

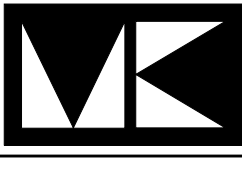





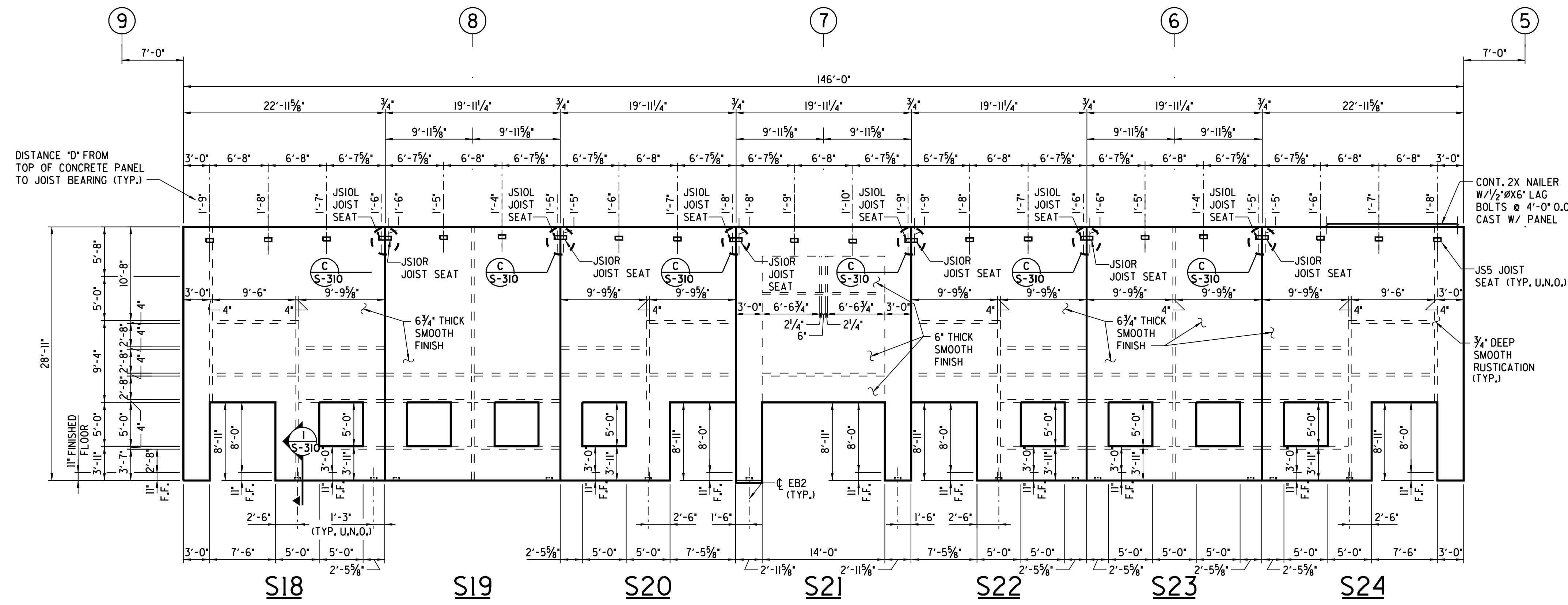
S1

SOUTH WALL
6 3/4" THICK SMOOTH FINISH
6" THICK SMOOTH FINISH
3/4" DEEP SMOOTH RUSTICATION

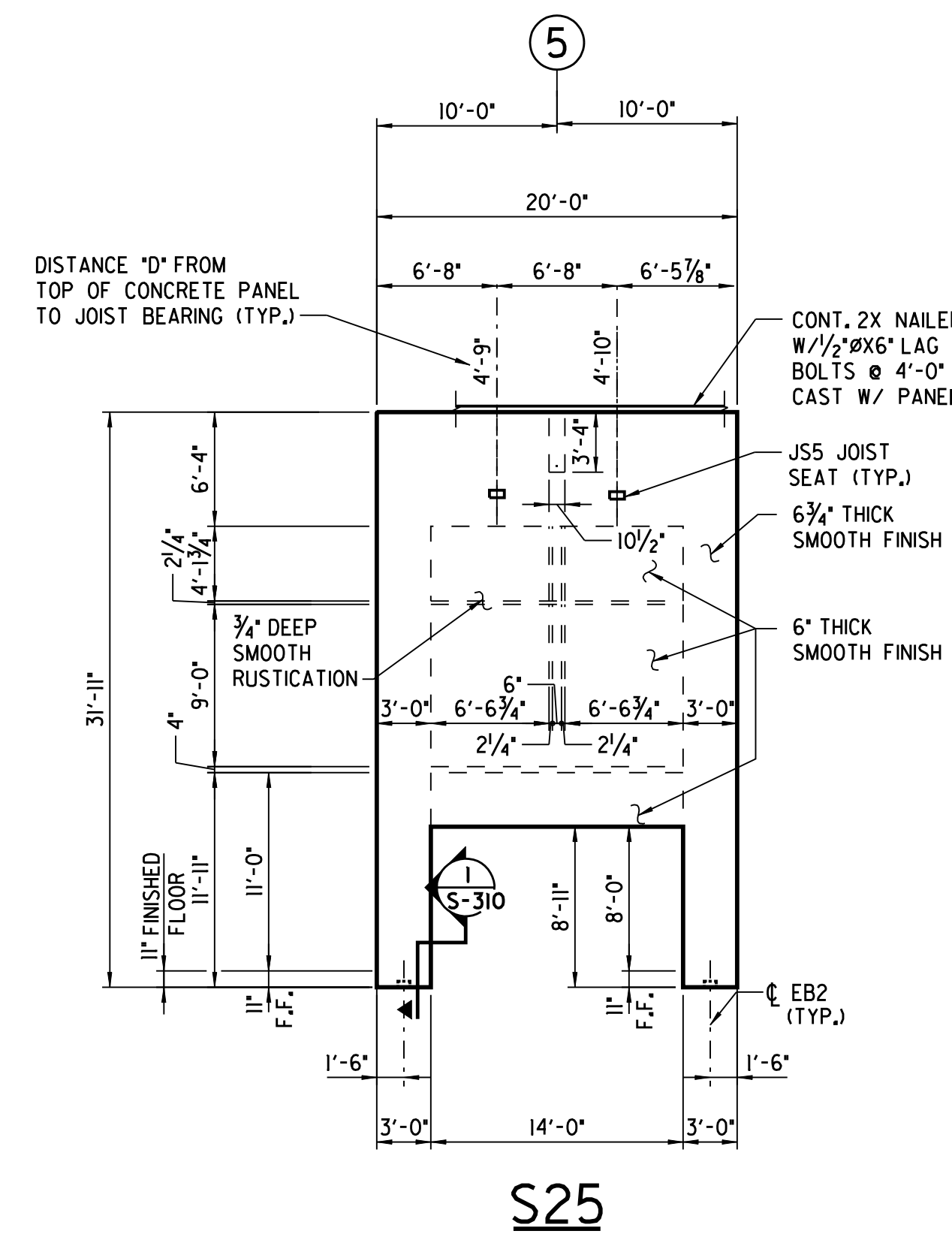
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1		8-22-03	RELEASED FOR CONSTRUCTION
REVISIONS			
 MORGAN-KELLER, INC. Design / Build Construction Services 70 Thomas Johnson Drive • Frederick, Maryland 21702 301-663-0626			
Architect:  NJTec Design associates, inc.			
Structural:  CON/STEEL TILT-UP SYSTEMS  LJB Inc. • 3100 Research Blvd. • P.O. Box 2046 Dayton, OH 45420-0246 (937) 259-5000 tel • (937) 259-5100 fax • ljb@ljb.com			
WEDGEWOOD IV BUSINESS CENTER			
FREDERICK COUNTY, MARYLAND			
BUILDING THREE WALL PANEL LAYOUT			
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CHECKED BY: JJS		SHEET NO.: S-312	
DATE: JULY 03		REV.	



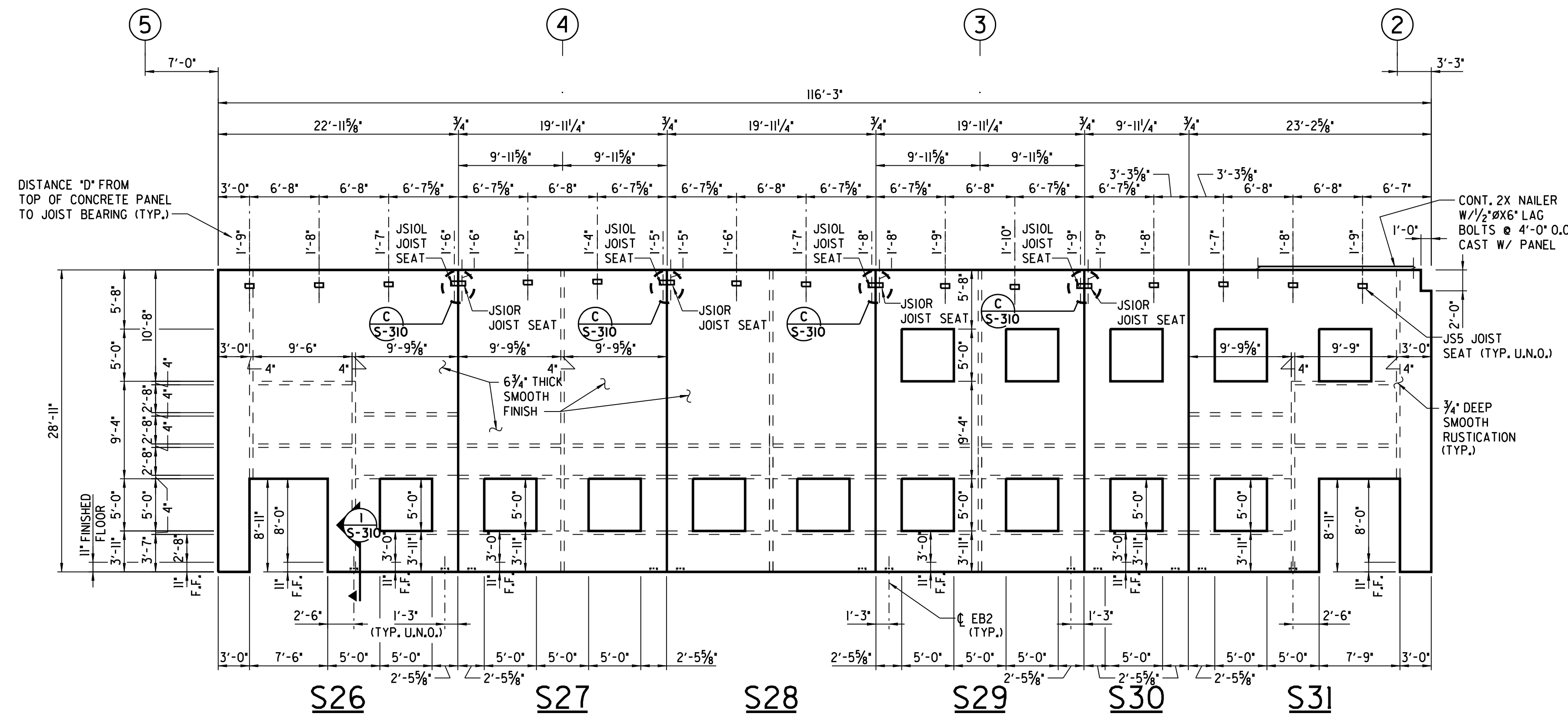
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REVISIONS			
 MORGAN-KELLER, INC. Design / Build Construction Services 70 Thomas Johnson Drive • Frederick, Maryland 21702 301-663-0626			
Architect:		NJTec Design associates, inc.	
Structural:		CON/STEEL TILT-UP SYSTEMS	
 LJB Inc. • 3100 Research Blvd. • P.O. Box 20246 Dayton, OH 45420-0246 (937) 259-5000 tel • (937) 259-5100 fax • ljbinc.com			
WEDGEWOOD IV BUSINESS CENTER			
FREDERICK COUNTY,		MARYLAND	
BUILDING THREE WALL PANEL LAYOUT			
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DATE JULY 03	REV.		



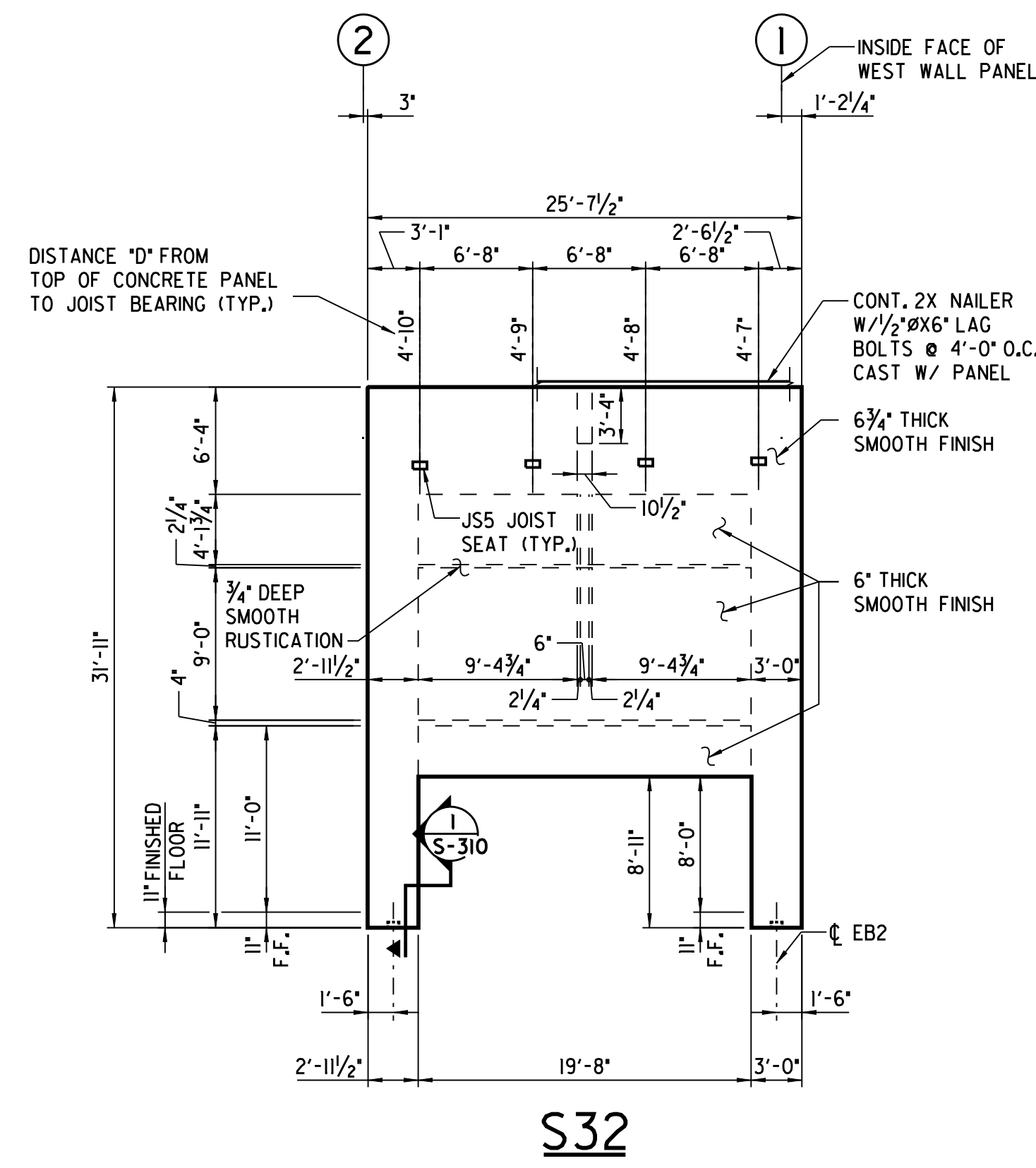
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6 3/4\"/>



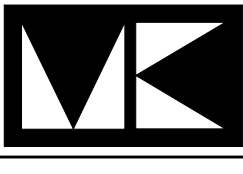



SOUTH WALL
6 3/4\"/>

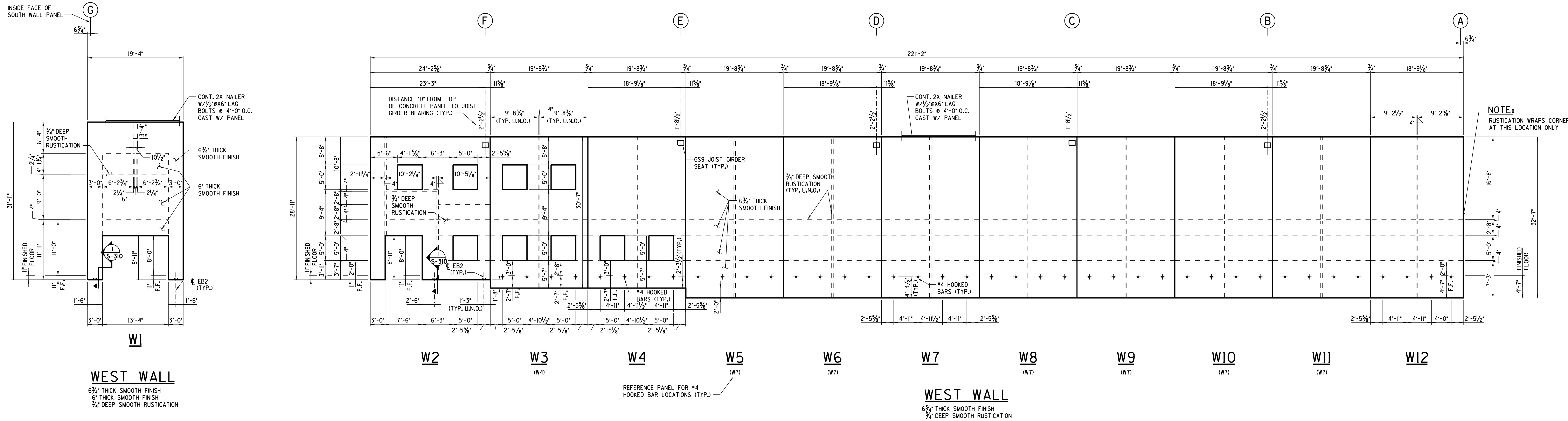


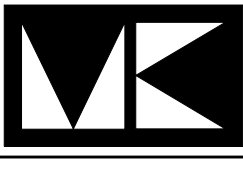

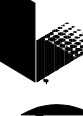

SOUTH WALL
6 3/4\"/>

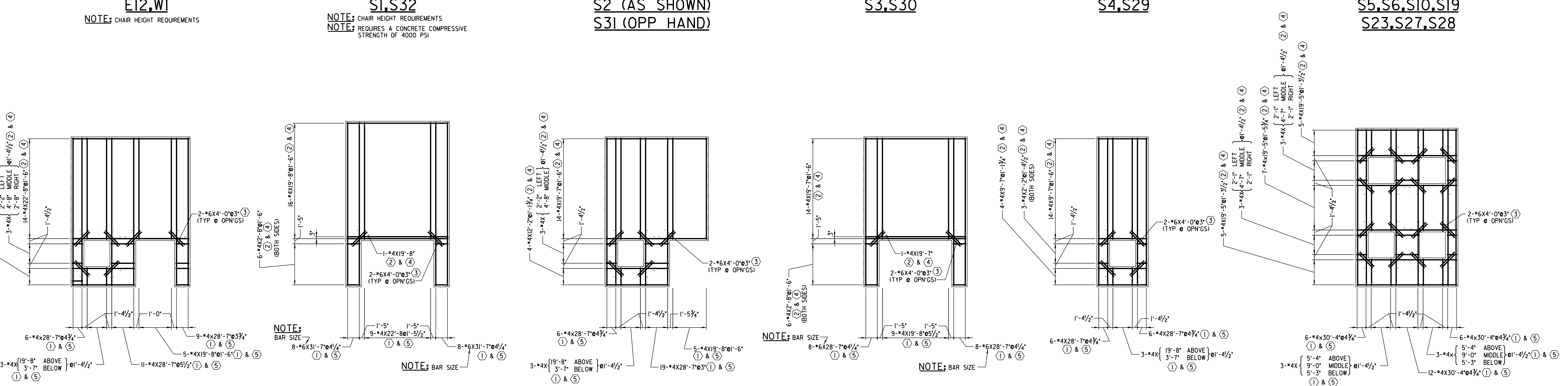
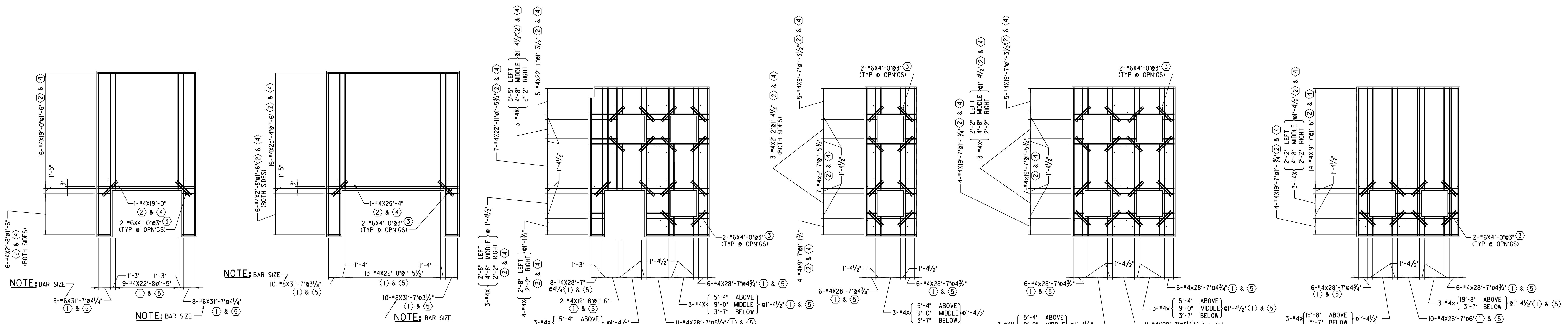


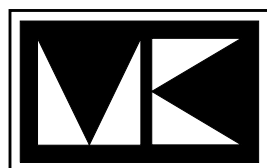



SOUTH WALL
6 3/4\"/>

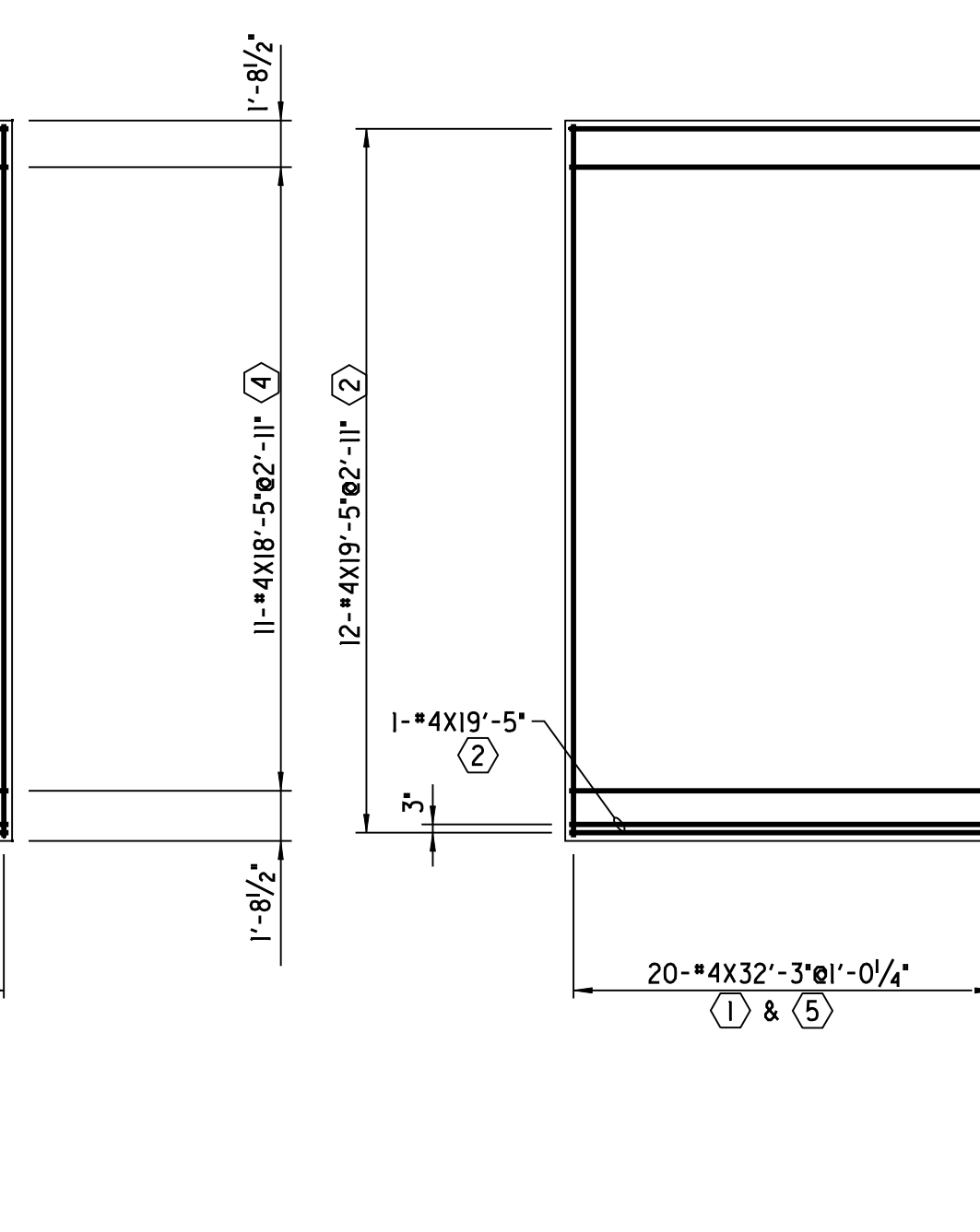
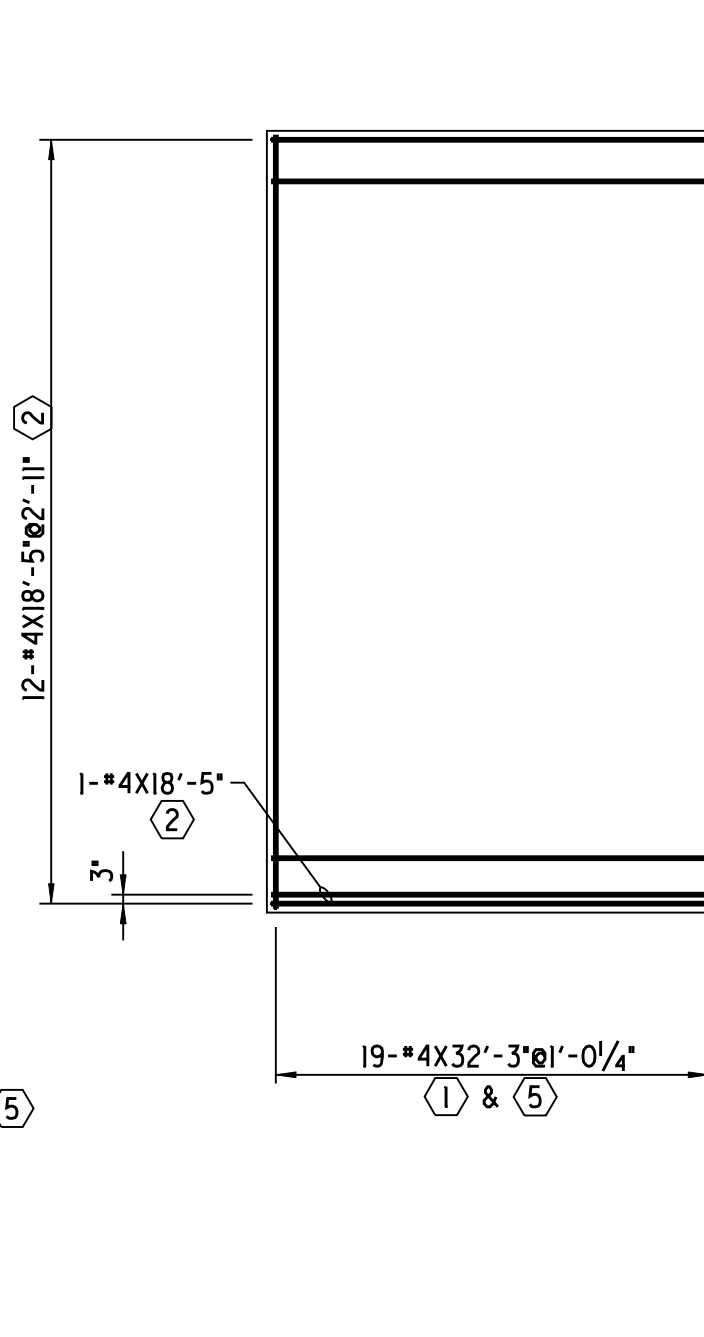
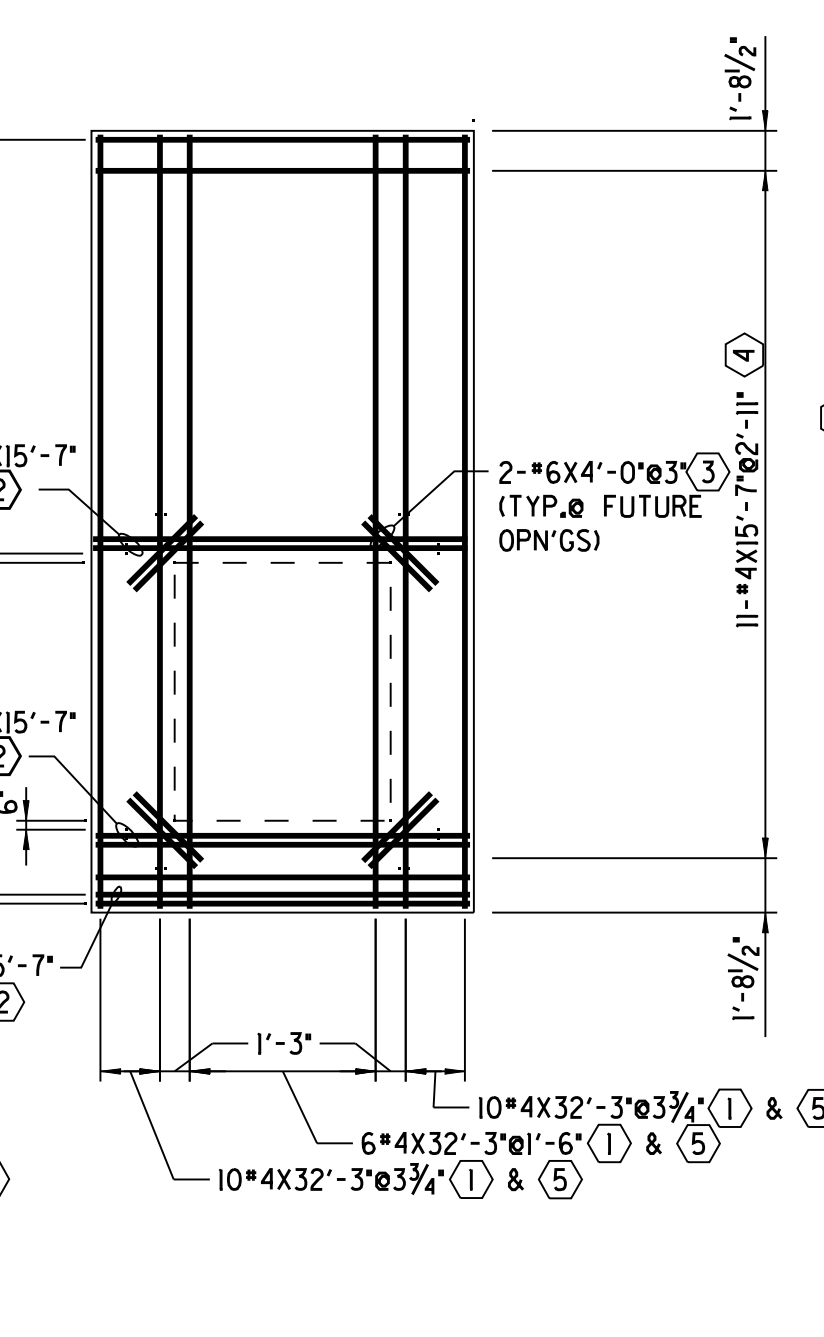
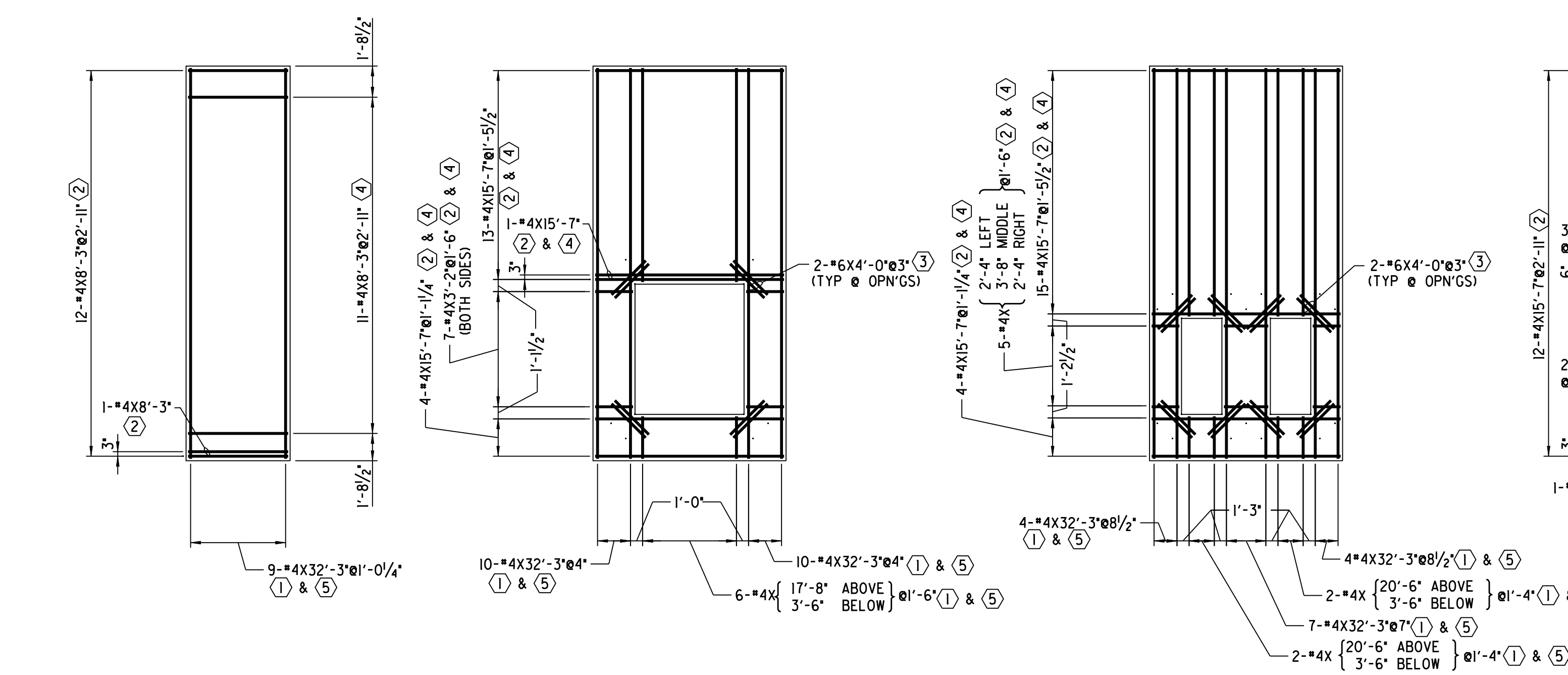
8-22-03		RELEASED FOR CONSTRUCTION	
REVISIONS			
 MORGAN-KELLER, INC. Design / Build Construction Services 70 Thomas Johnson Drive • Frederick, Maryland 21702 301-663-0626			
Architect:	 NJTec	Design associates, inc.	
Structural:	 CON/STEEL	TILT-UP SYSTEMS	
 JTB Inc. • 3100 Research Blvd. • P.O. Box 2046 Dayton, OH 45420-0246 (937) 259-5000 tel • (937) 259-5100 fax • jtbinc.com			
WEDGEWOOD IV BUSINESS CENTER			
FREDERICK COUNTY,		MARYLAND	
BUILDING THREE WALL PANEL LAYOUT			
SCALE	FILE NAME		
DRAWN BY JJS	JOB NO. 20499		
CHECKED BY JJS	SHEET NO. S-314		
DATE JULY 03	REV.		



1	8-22-03	RELEASED FOR CONSTRUCTION
REVISIONS		
 MORGAN-KELLER, INC. Design / Build Construction Services 70 Thomas Johnson Drive • Frederick, Maryland 21702 301-663-0626		
Architect:	 NJTec Design associates, inc.	
Structural:	 CON/STEEL TILT-UP SYSTEMS	
	 LJB Inc. • 3100 Research Blvd. • P.O. Box 20246 Dayton, OH 45420-0246 (937) 259-5000 tel • (937) 259-5100 fax • ljbinc.com	
WEDGEWOOD IV BUSINESS CENTER		
FREDERICK COUNTY, MARYLAND		
BUILDING THREE WALL PANEL LAYOUT		
SCALE	FILE NAME	
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DATE JULY 03		

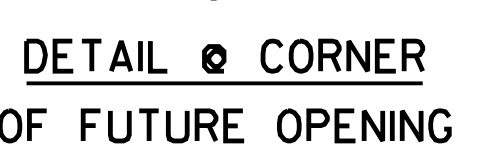
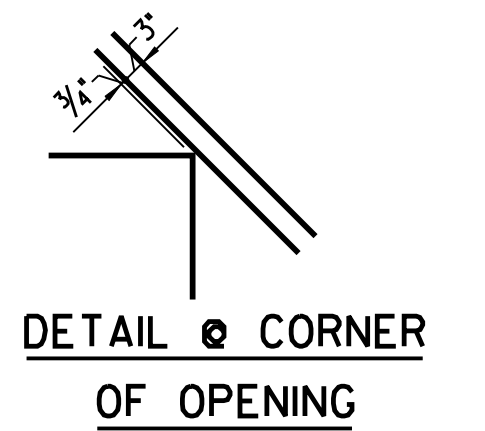


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REVISIONS		
	MORGAN-KELLER, INC. Design / Build Construction Services	
70 Thomas Johnson Drive • Frederick, Maryland 21702 301-663-0626		
Architect:		Nutek Design associates, inc.
Structural:		CON/STEEL TILT-UP SYSTEMS
		LJB Inc. • 3100 Research Blvd. • P.O. Box 20246 Dayton, OH 45420-0246 (937) 259-5000 tel • (937) 259-5100 fax • ljbinc.com
WEDGEWOOD IV BUSINESS CENTER		
FREDERICK COUNTY,		MARYLAND
BUILDING THREE		
WALL PANEL REINFORCING		
SCALE		FILE NAME
DRAWN BY JJS	JOB NO. 20499	
CHECKED BY JJS	SHEET NO. S-317	
DATE AUG. 03	REV.	



PANEL REINFORCING NOTES

1. MAINTAIN 3" CLEAR FOR ALL REINFORCING BARS PARALLEL TO FORMED EDGES OR PANEL JOINTS AND 6" CLEAR FOR ALL BARS PARALLEL TO FUTURE OPENINGS UNLESS SHOWN OTHERWISE. ADDITIONAL REINFORCING BARS AT FORMED OR FUTURE OPENING SHALL BE LOCATED AS SHOWN.
2. MAINTAIN 2" CLEAR BETWEEN ENDS OF ALL BARS AND FORMED EDGES.
3. THE CLEAR DISTANCE BETWEEN PARALLEL BARS IN A LEVEL SHALL NOT BE LESS THAN 2".
4. THE SYMBOL \odot DENOTES LEVEL OF REINFORCING BARS.
5. WHERE THE VERTICAL REINFORCING BARS ARE REQUIRED IN LEVELS \odot AND \odot , BARS SHALL BE PLACED DIRECTLY ABOVE LEVEL \odot BARS, LEVEL \odot OR LEVEL \odot BY A MINIMUM OF 2" HORIZONTALLY.
6. BARS SHALL NOT BE SPLICED UNLESS ENGINEER IS NOTIFIED.
7. REINFORCING BARS MAY BE FIELD CUT TO MAINTAIN MINIMUM CLEARANCE OF ALL JOIST SEATS.
8. LEVEL \odot REINFORCING BARS SHALL BE SUPPORTED BY CHAIRS 4'-0" C/C MAXIMUM EACH WAY. ALL OTHER LEVELS SHALL BE SUPPORTED BY AND TIED TO LEVEL \odot BARS UNLESS NOTED.
9. HORIZONTAL AND VERTICAL REINFORCING BARS SHALL BE SECURELY TIED AT 50% OF THEIR INTERSECTIONS. TIES ARE TO BE DISTRIBUTED UNIFORMLY THROUGHOUT REINFORCING MAT.
10. ALL VERTICAL BARS FOR WHICH THE SPACING IS NOT GIVEN SHALL BE EQUALLY SPACED.
11. BARS LISTED TOGETHER IN MULTIPLE LEVELS ARE THE NUMBER OF BARS IN EACH LEVEL. (E.G. 4-#5 \odot & \odot = 8-#5 TOTAL.)



N1,N39
NOTE: LEVEL \odot & \odot BARS ARE STAGGERED.

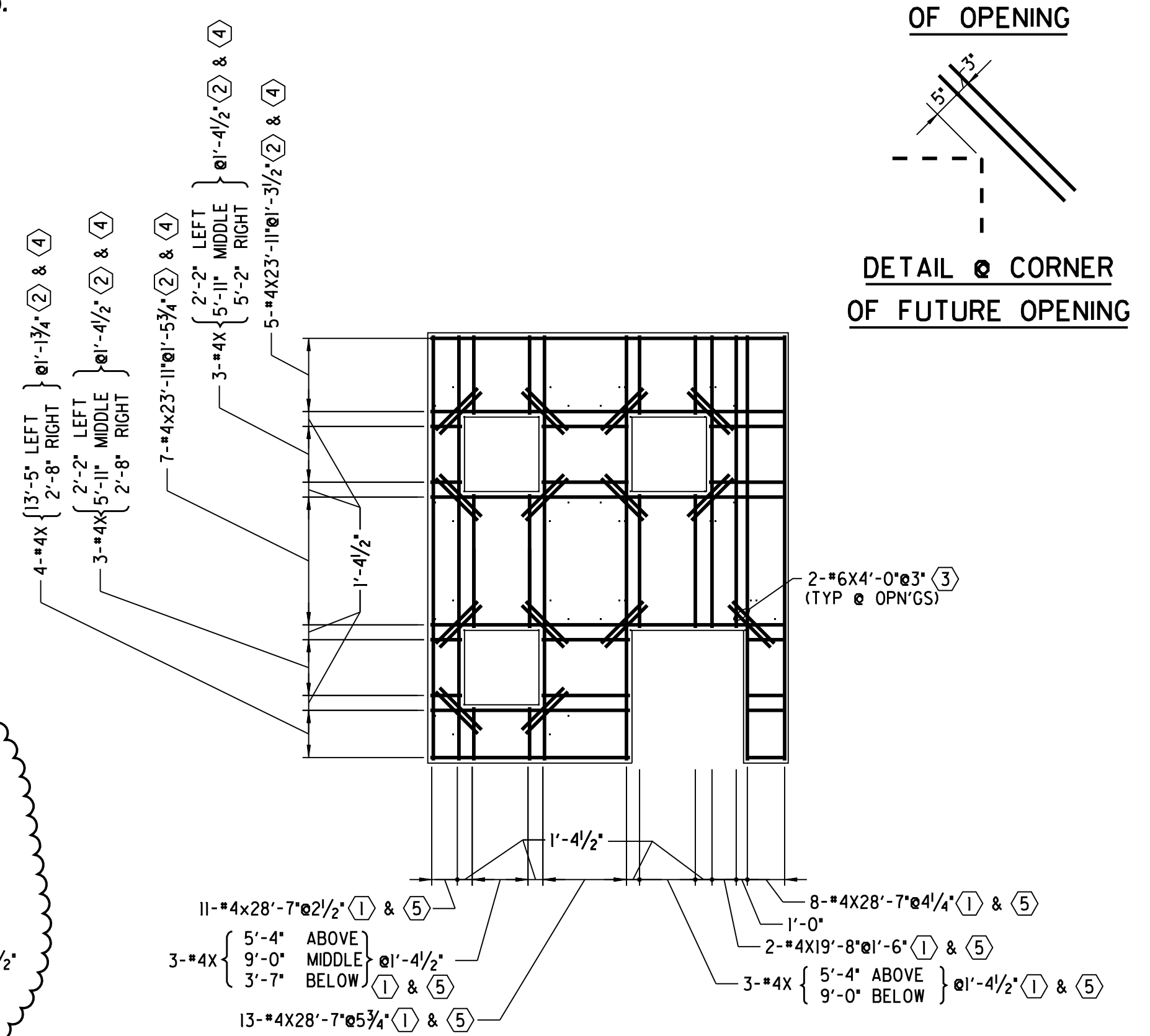
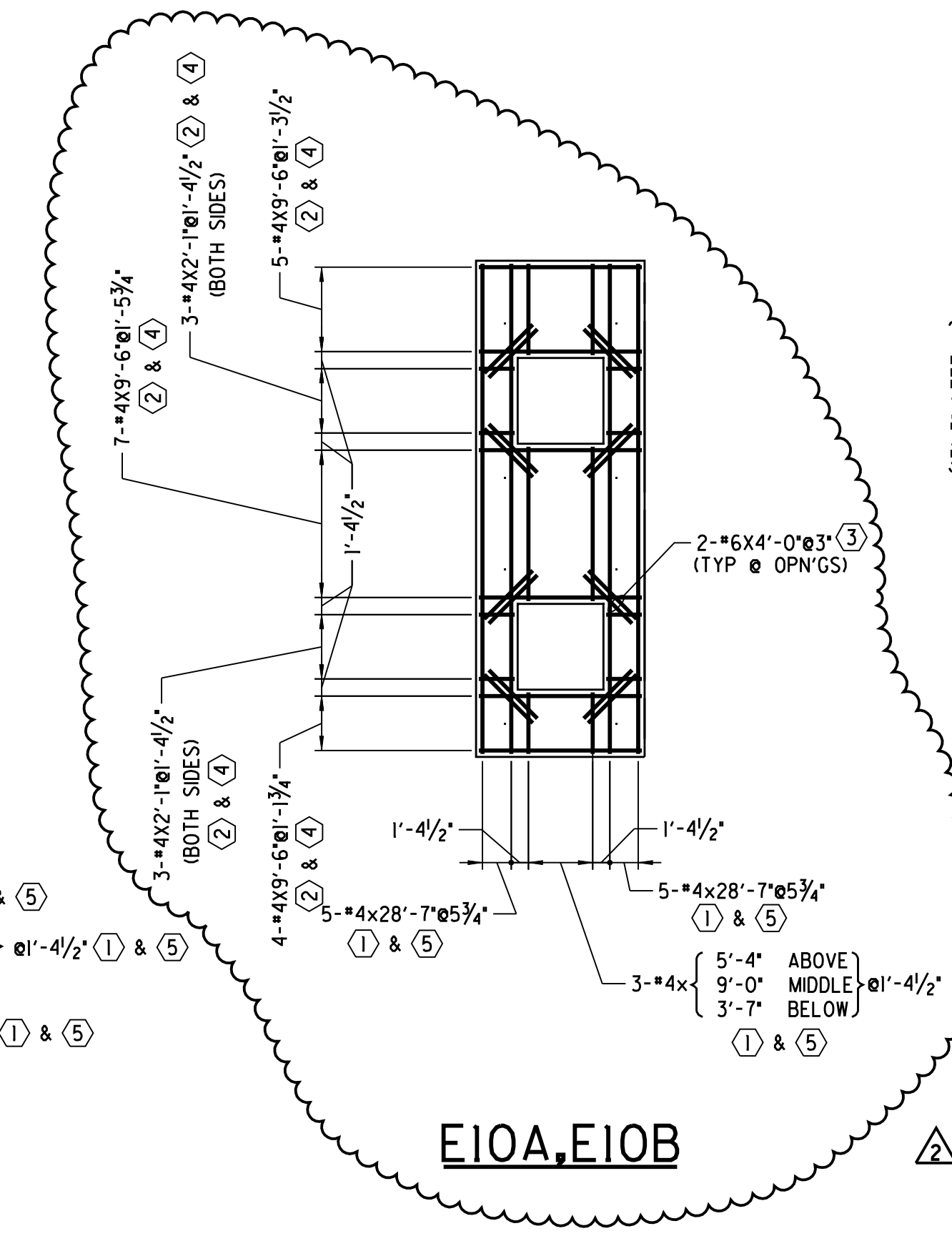
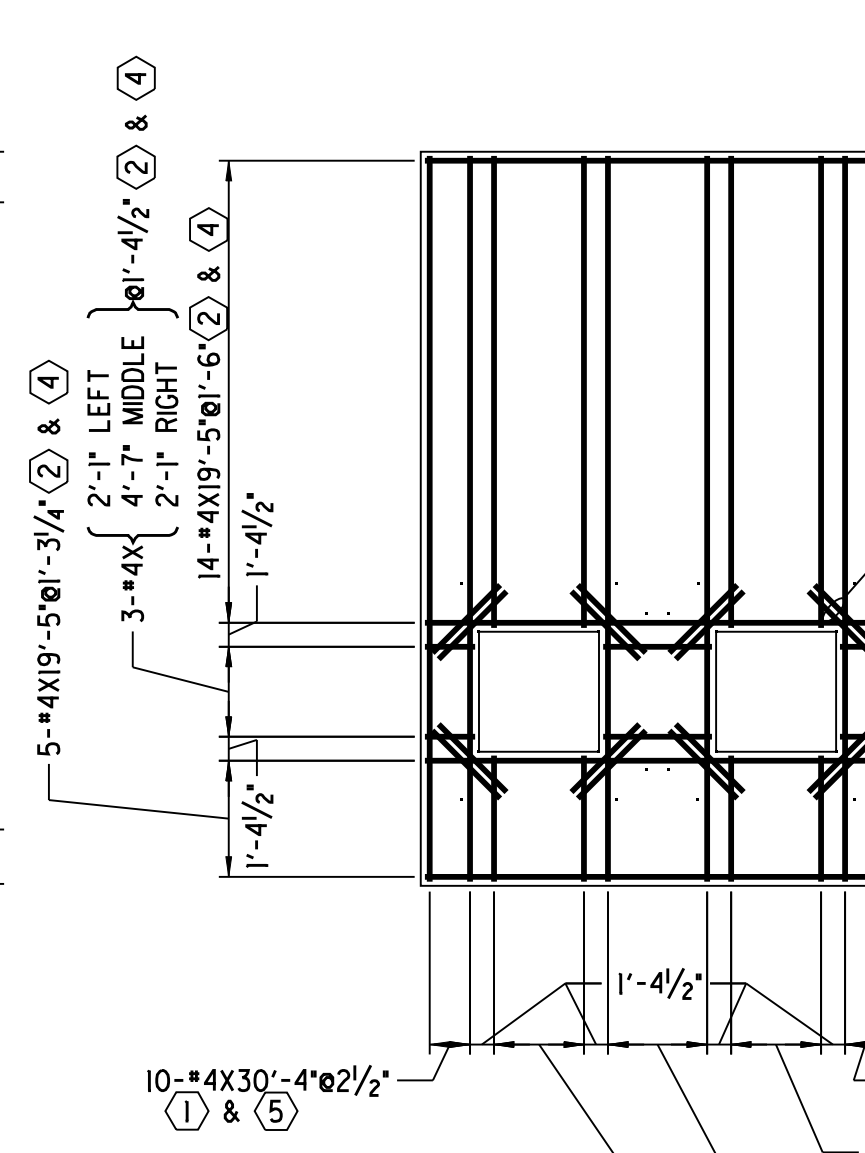
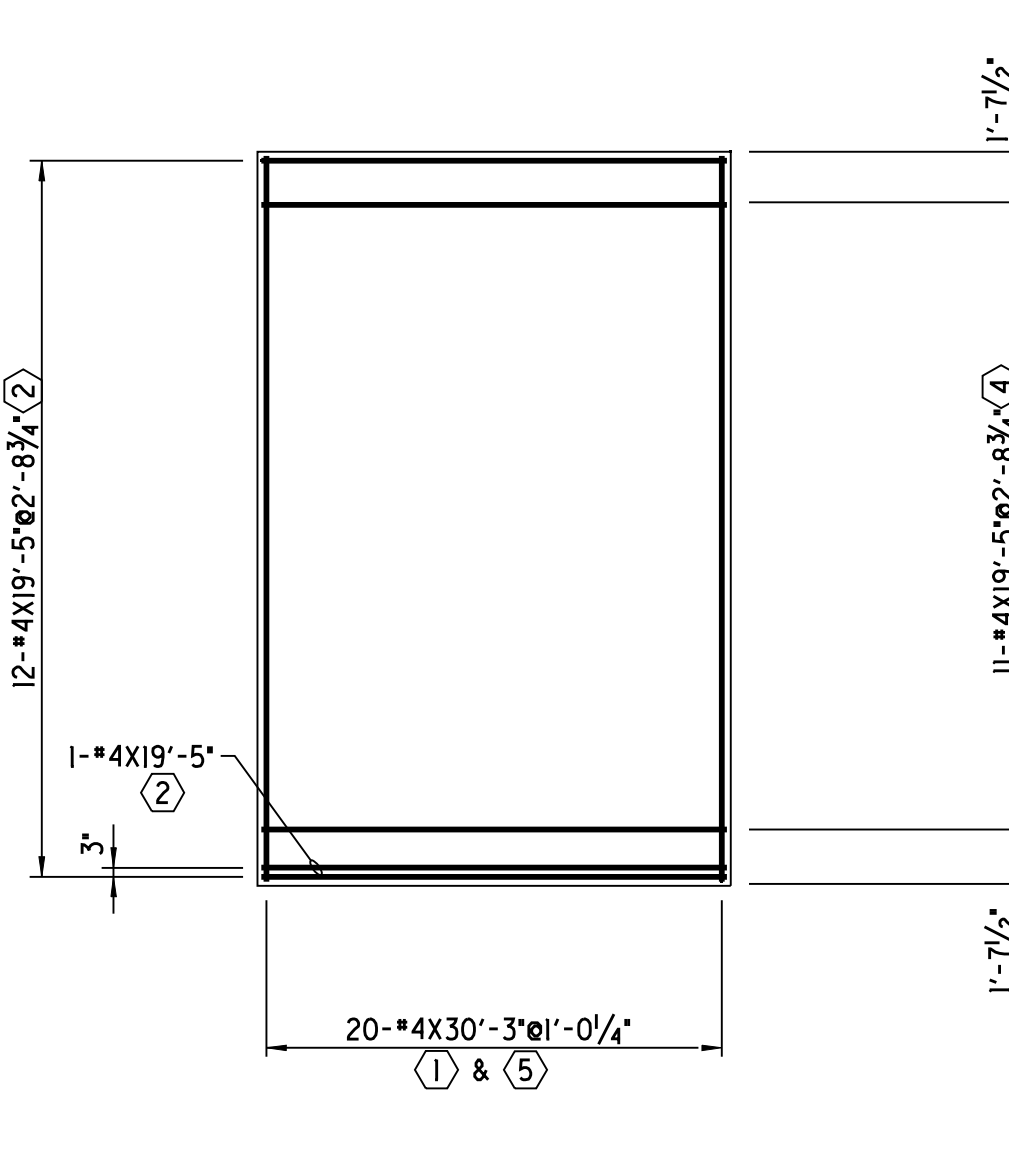
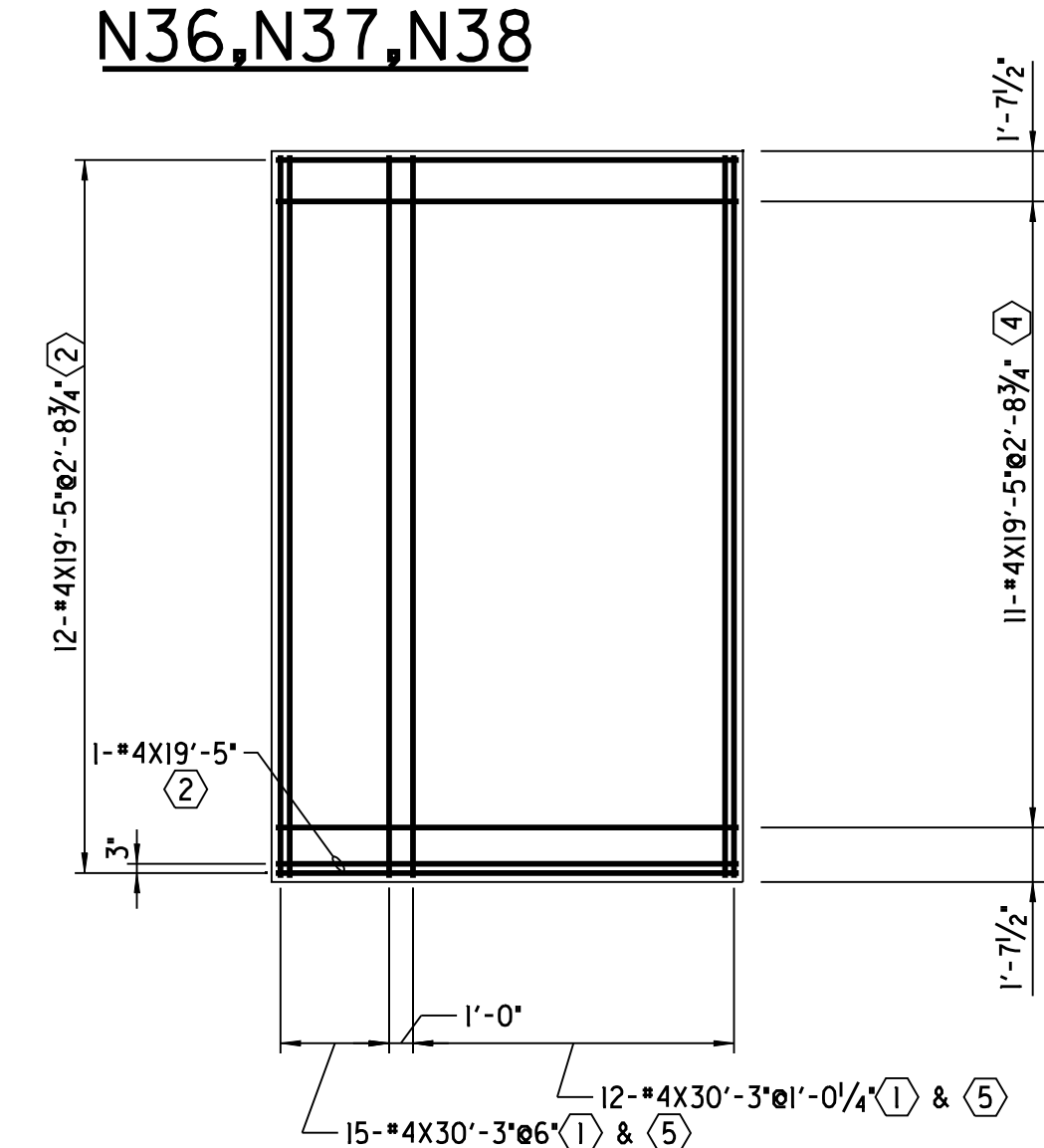
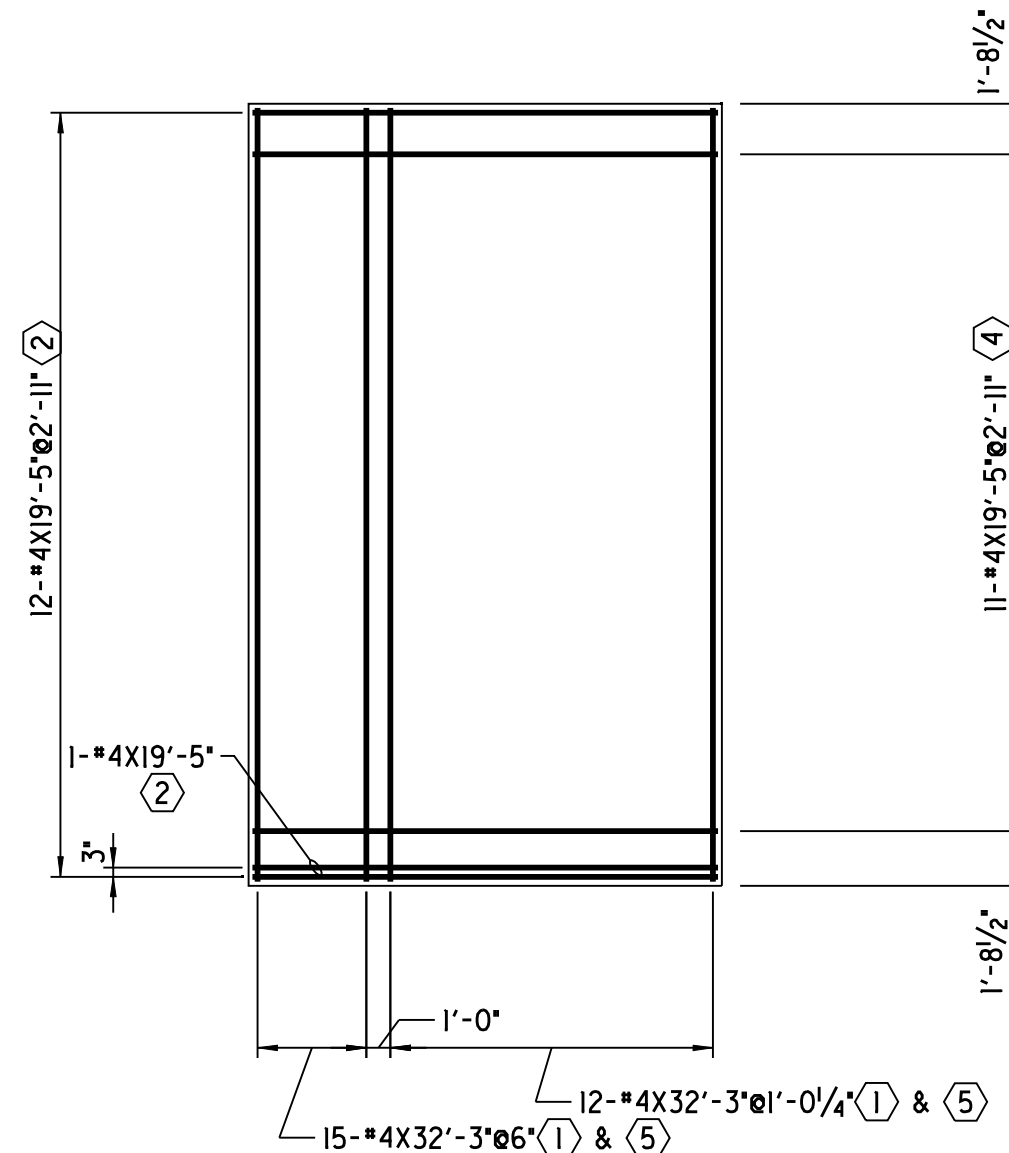
N2,N3,N4, N6 THRU N9, N11 THRU N14, N16 THRU N19, N22,N23,N24, N26 THRU N29, N31 THRU N34, N36,N37,N38

N5,N10,N15, N20,N25,N30,N35

N21
NOTE: LEVEL \odot & \odot BARS ARE STAGGERED.

E1,W12
NOTE: LEVEL \odot & \odot BARS ARE STAGGERED.

E2,E4, W5,W7,W9,W11
NOTE: LEVEL \odot & \odot BARS ARE STAGGERED.



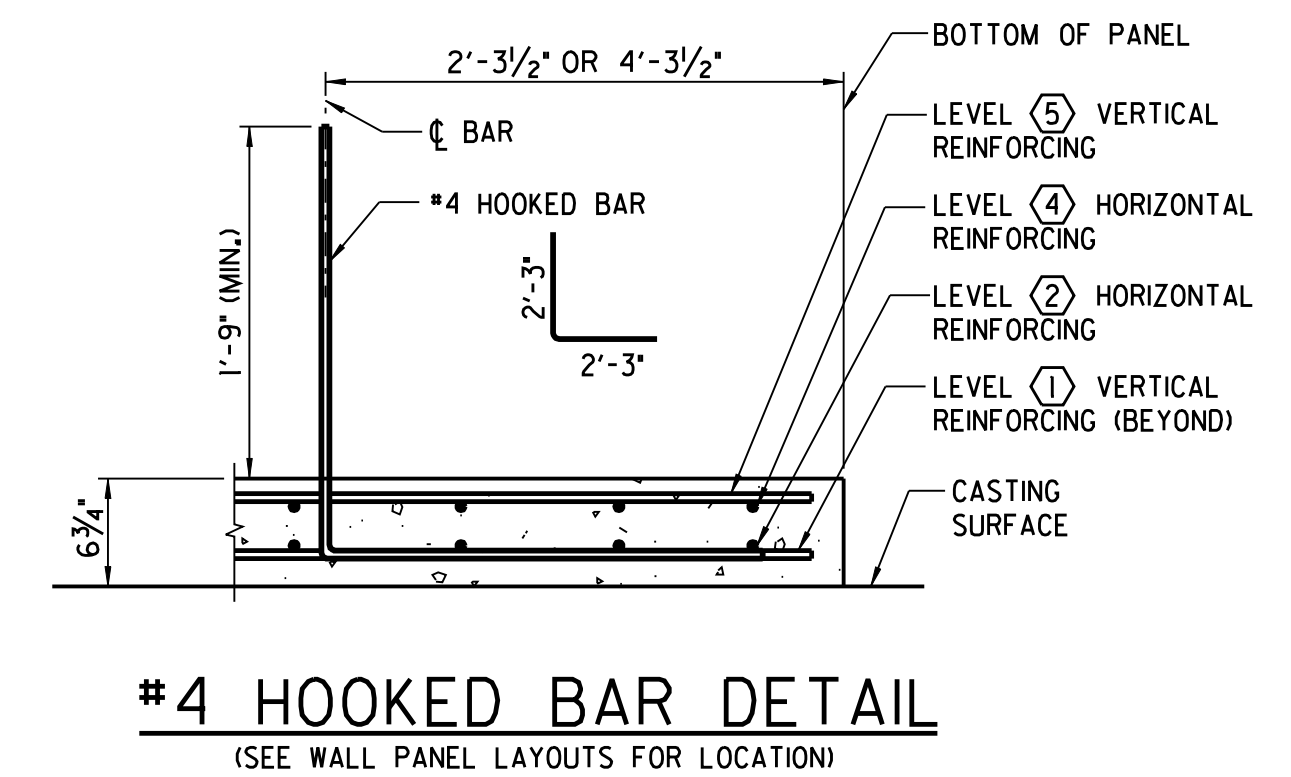
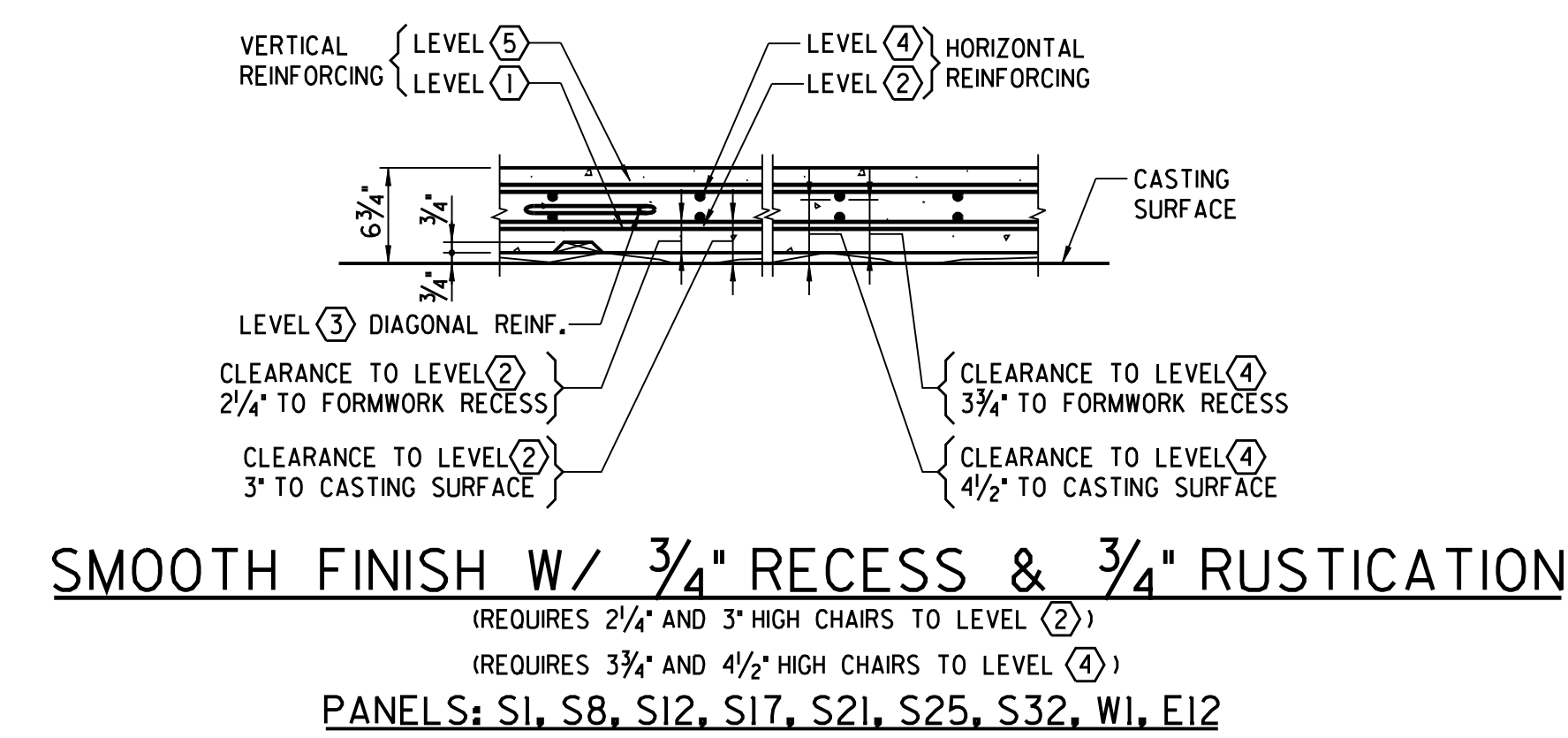
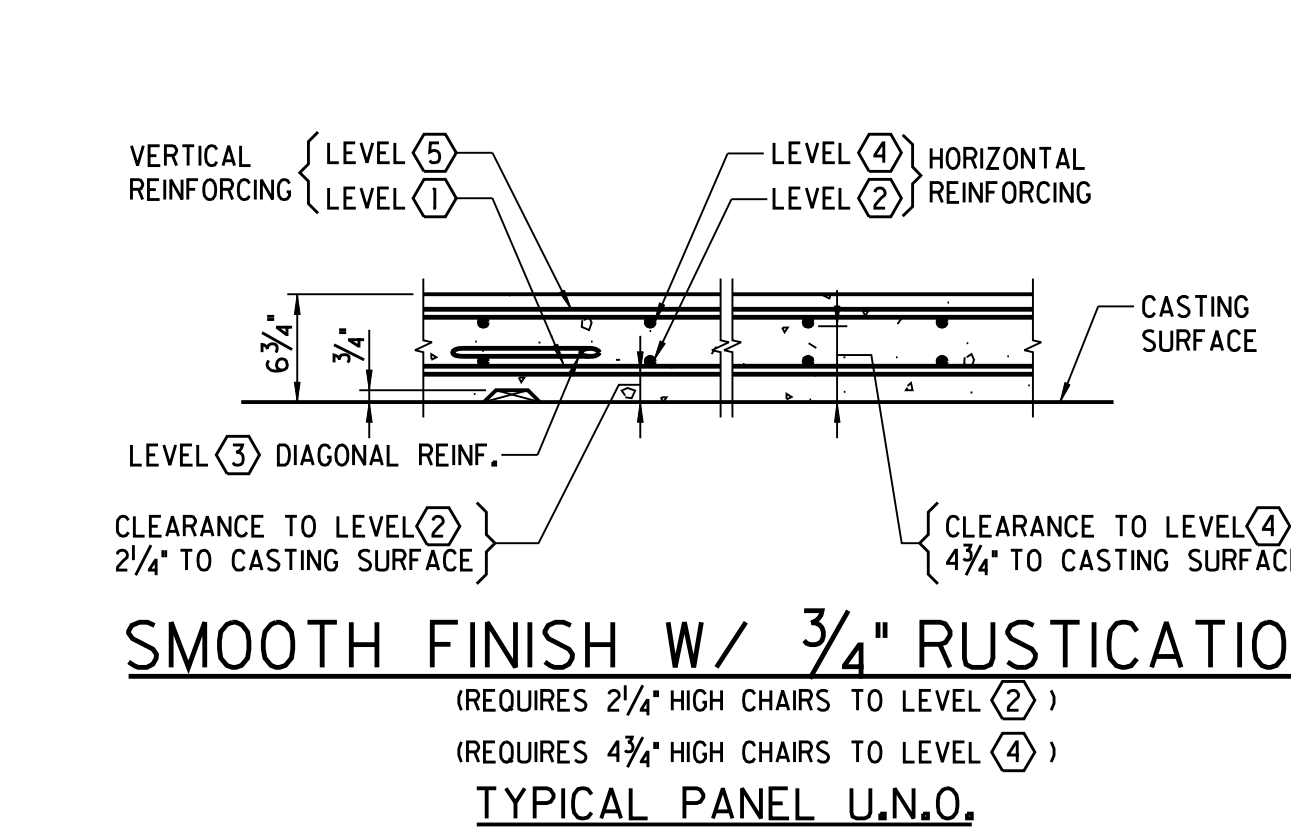
E3 (AS SHOWN), W6,W8,W10 (OPP HAND)
NOTE: LEVEL \odot & \odot BARS ARE STAGGERED.

E5,E7
NOTE: LEVEL \odot & \odot BARS ARE STAGGERED.

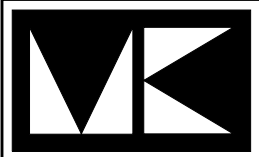
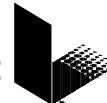

E6,E8
NOTE: LEVEL \odot & \odot BARS ARE STAGGERED.

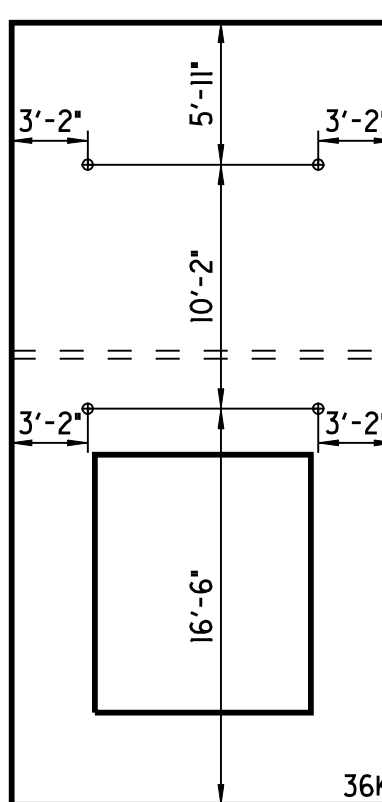
E9 (AS SHOWN), W4 (OPP HAND)

E11 (AS SHOWN), W2 (OPP HAND)

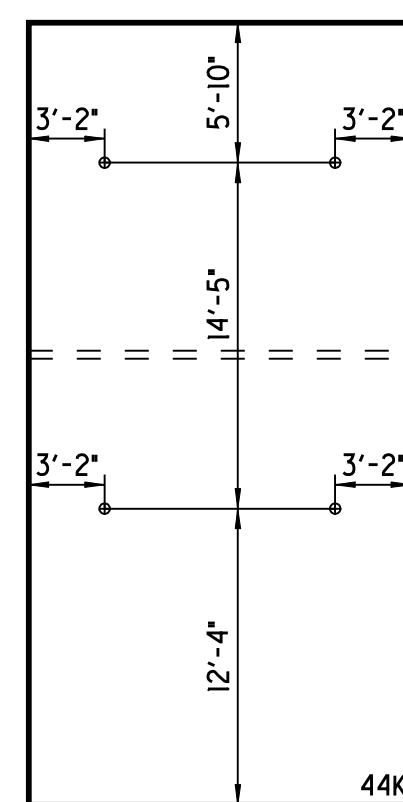
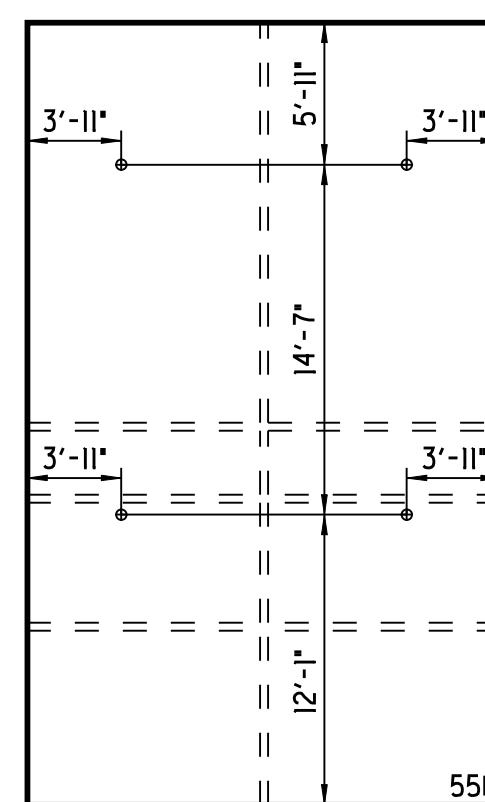


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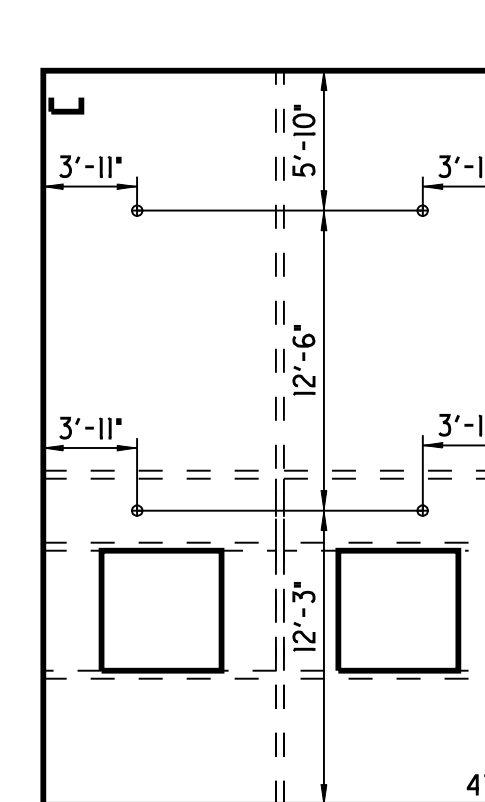
2	11-13-03	REVISED PANEL E10
1	8-25-03	RELEASED FOR CONSTRUCTION
REVISIONS		
<div><div>MORGAN-KELLER, INC. Design / Build Construction Services 70 Thomas Johnson Drive • Frederick, Maryland 21702 301-663-0626</div></div>		
Architect:	 NJec Design associates, inc.	
Structural:	 CON/STEEL® TILT-UP SYSTEMS	
	<div><div>LJB Inc. • 3100 Research Blvd. • P.O. Box 2046 Dayton, OH 45420-0246 (937) 259-5000 tel • (937) 259-5100 fax • ljbinc.com</div></div>	
<div>WEDGEWOOD IV BUSINESS CENTER FREDERICK COUNTY, MARYLAND BUILDING THREE WALL PANEL REINFORCING</div>		
SCALE		
FILE NAME		
DRAWN BY	JJS	JOB NO.
CHECKED BY	JJS	20499
DATE	AUG. 03	SHEET NO.
		S-316
		REV.



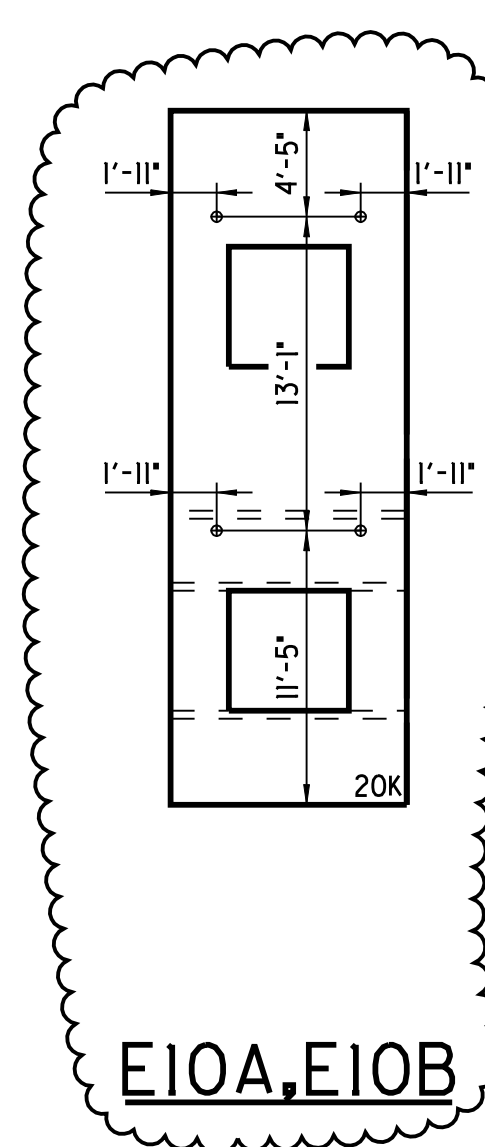
N2,N3,N4
N6 THRU N


$$\frac{N5, N10, N15, N20}{N25, N30, N35}$$


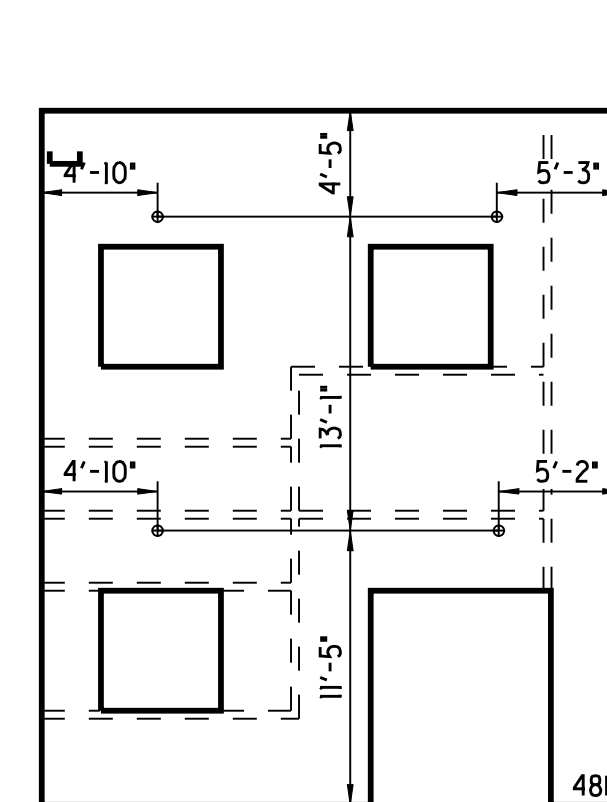
E2,E3,E4
W5 THRU W11



E9.W4



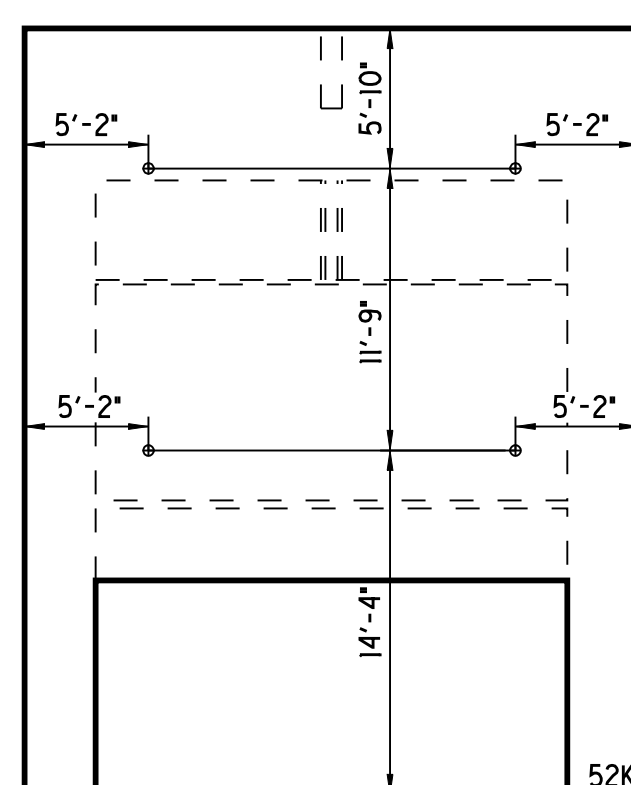
E10A, E10B



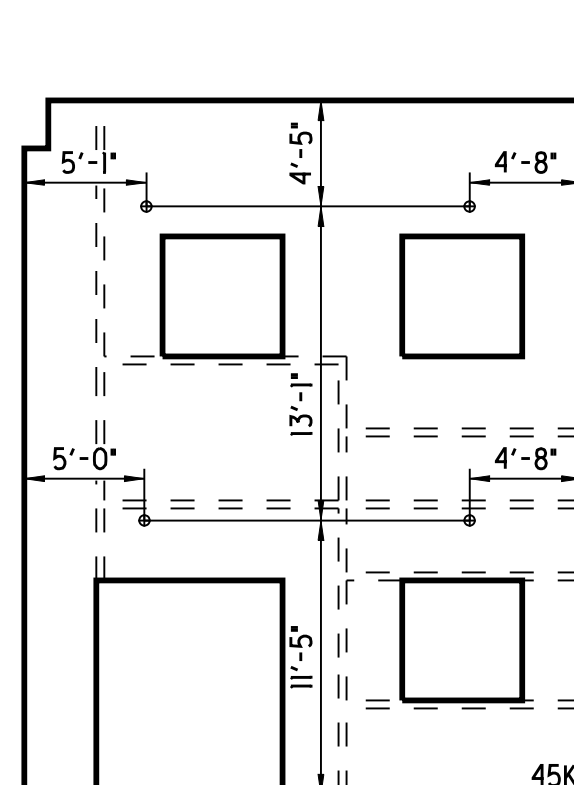
E11

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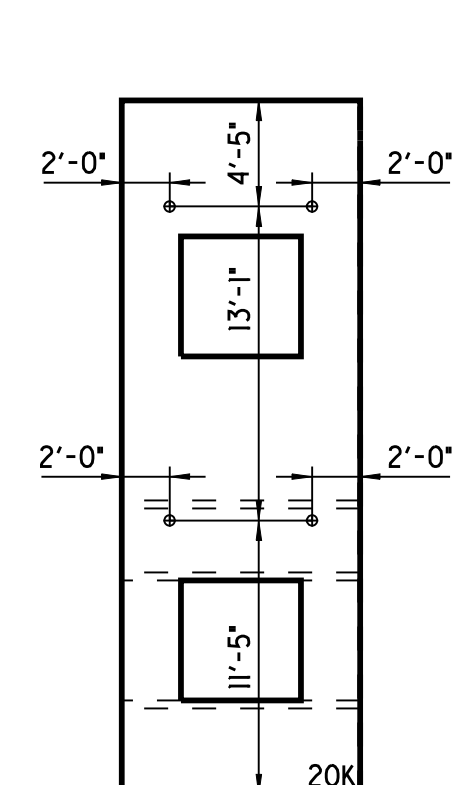
TYPICAL REINFORCING
AT LIFTING INSERT



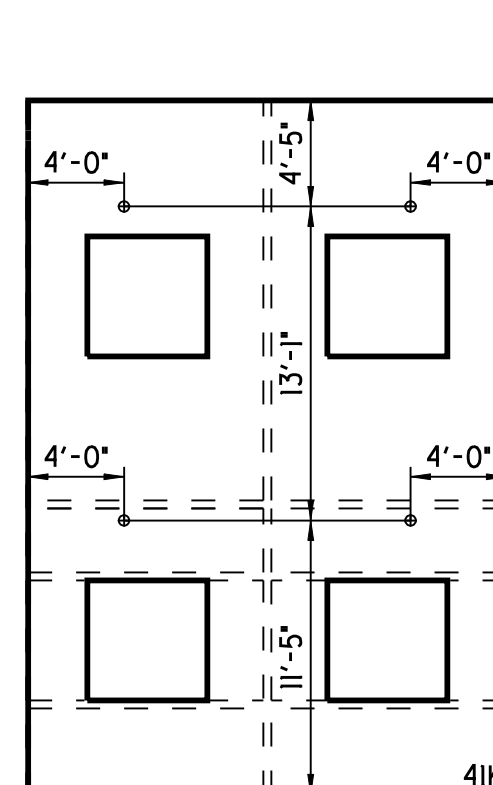
E12.W1



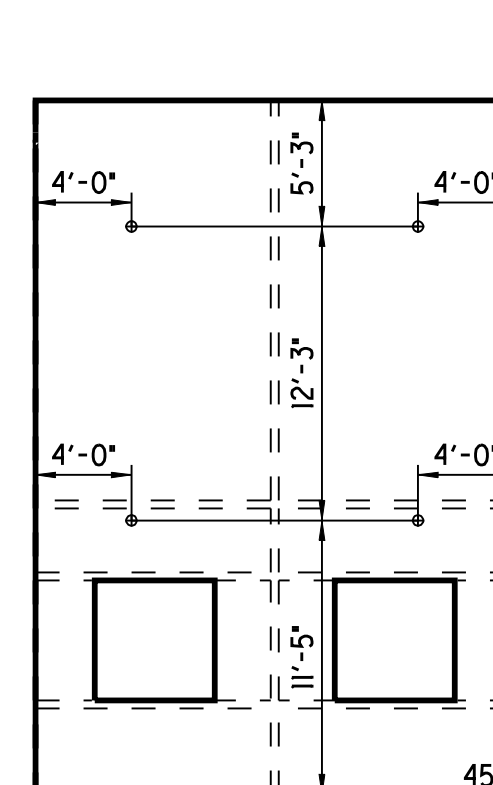
S2



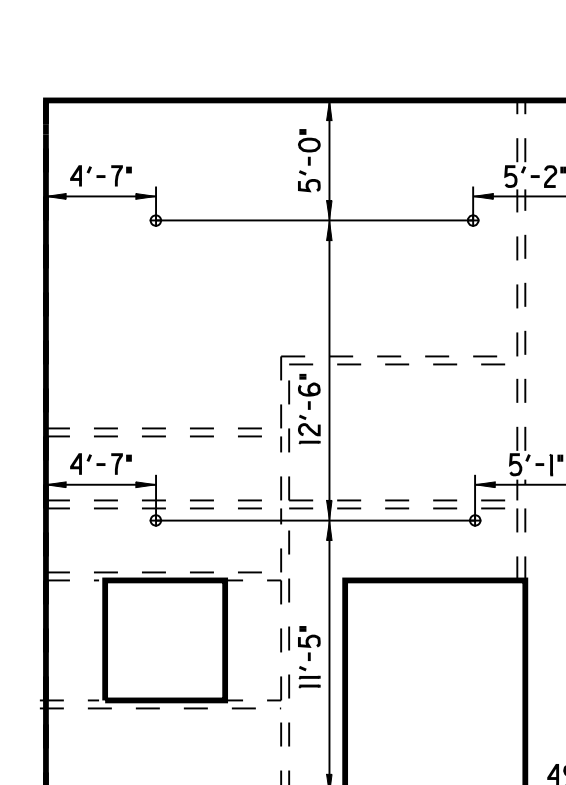
S3,S30



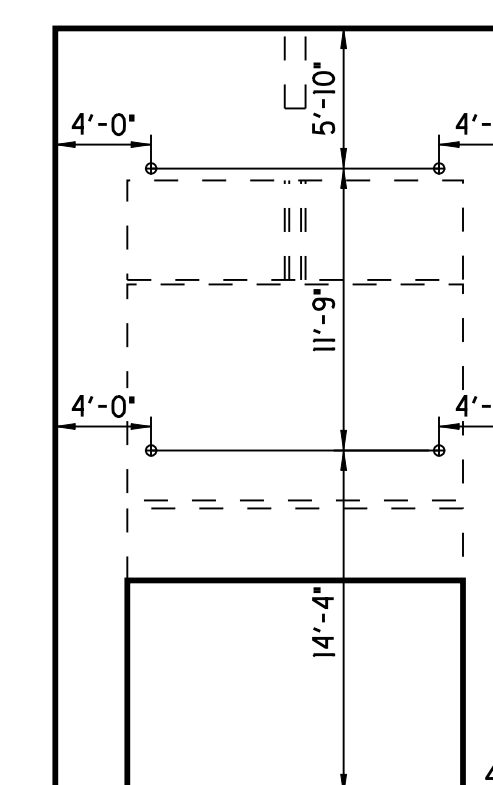
S4,S29



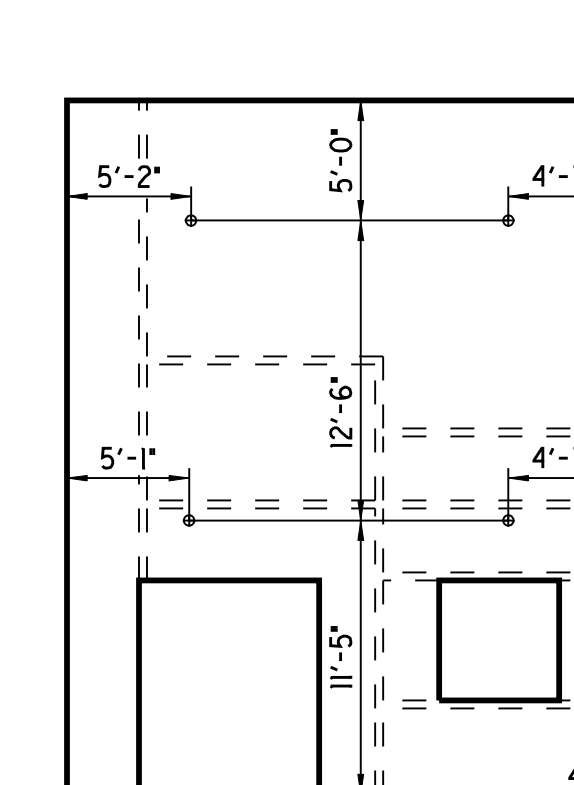
S5,S6,S10,S19
S23,S27,S28



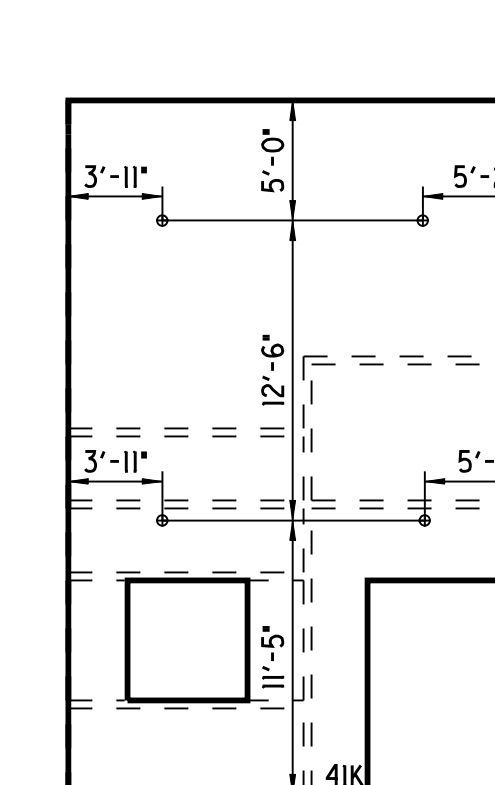
S7,S16,S24



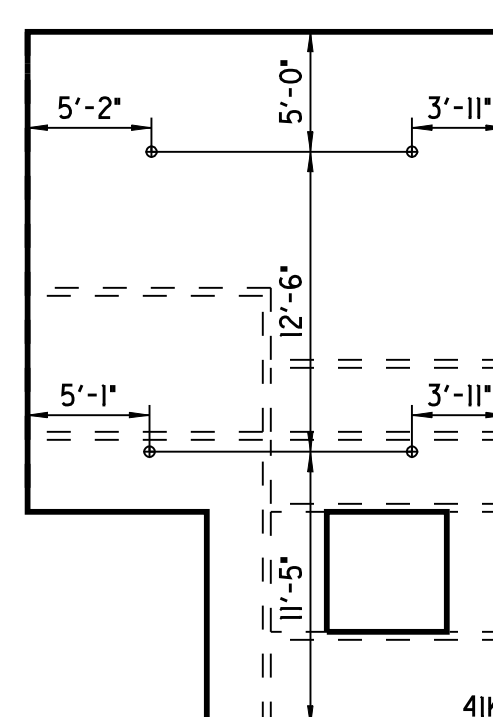
S8,S17,S25



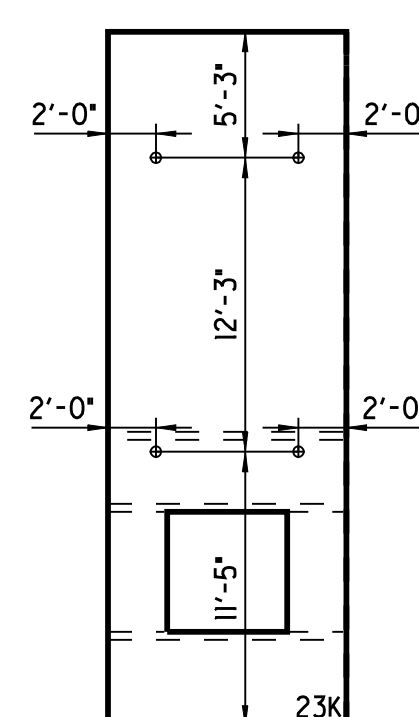
S9,S18,S26



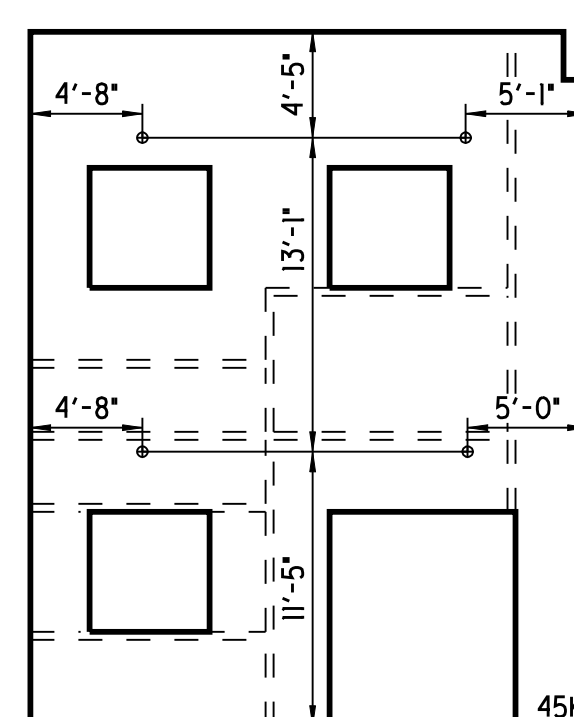
S11,S20



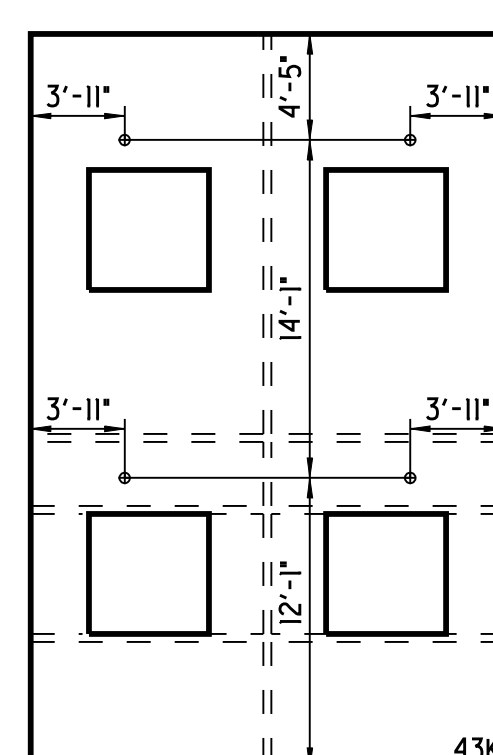
S12.S21



S14.S15



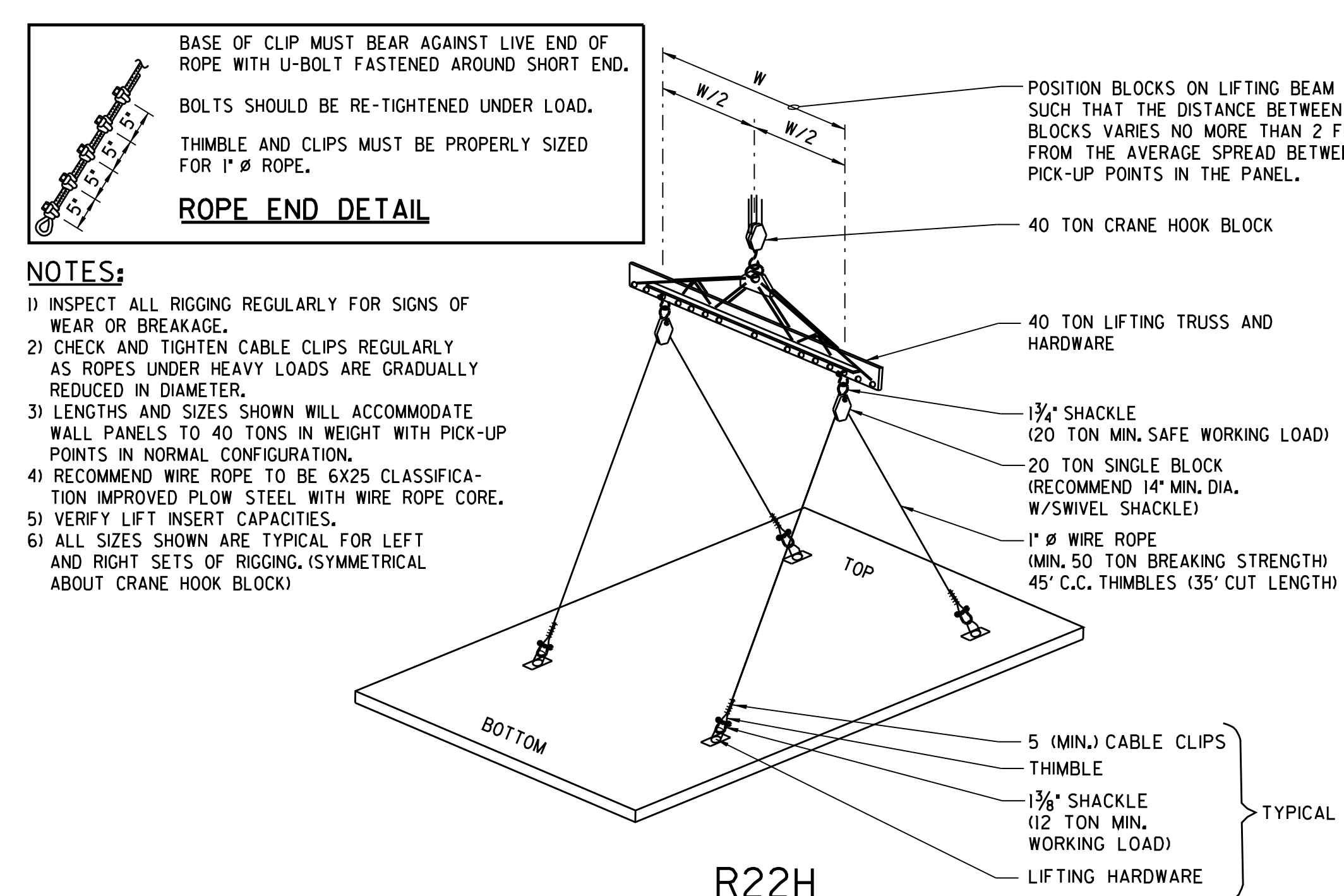
S31

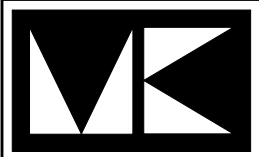





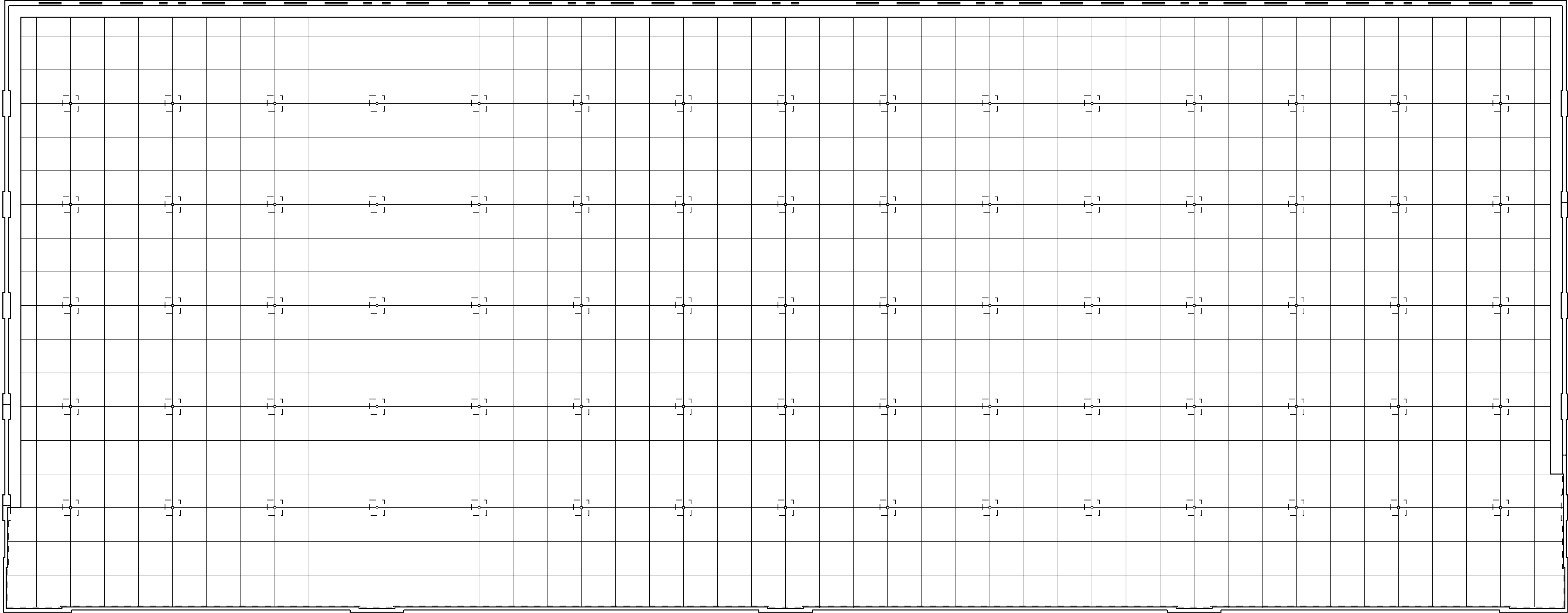
W2

W3

NOTE: VOLUME IS IN CUBIC YARDS



2	11-13-03	REVISED PANEL EIO	
1	8-22-03	RELEASED FOR CONSTRUCTION	
REVISIONS			
		MORGAN-KELLER, INC.	
		Design / Build Construction Services	
70 Thomas Johnson Drive • Frederick, Maryland 21702 301-663-0626			
Architect:		NuTec Design associates, inc.	
Structural:		TILT-UP SYSTEM	
		LJB Inc. • 3100 Rockwood Blvd. • P.O. Box 20246 Dayton, OH 45420-0246 (937) 259-5900 ext • (937) 259-5100 fax • jlb@inc.com	
WEDGEWOOD IV BUSINESS CENTER			
FREDERICK COUNTY,		MARYLAND	
BUILDING THREE			
WALL PANEL INSERTS			
SCALE		FILE NAME	
DRAWN BY JMH		JOB NO.	
CHECKED BY JYG		20499	
CONTACT		PROJECT NO.	
DATE FEB 05		S-318	

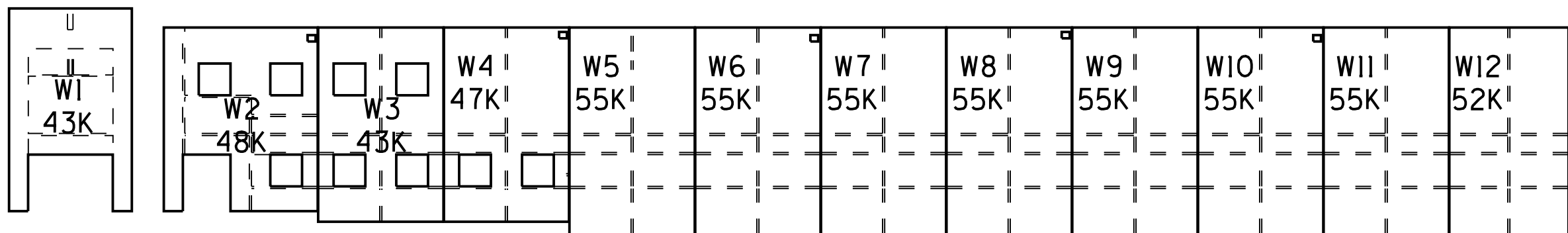
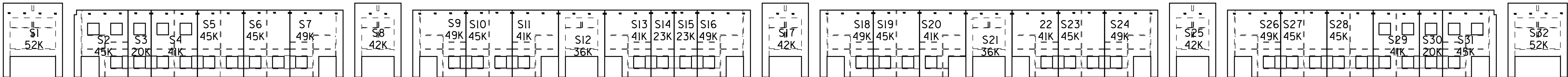
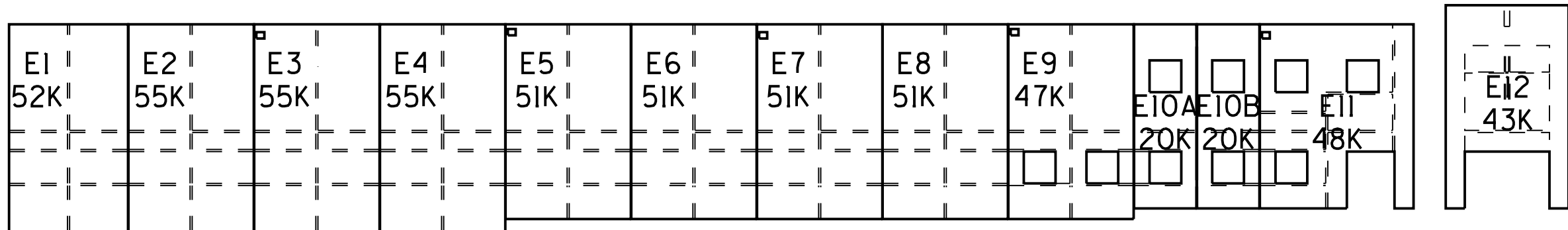
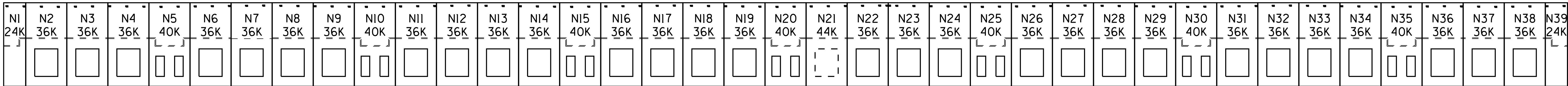


BUILDING THREE FOUNDATION



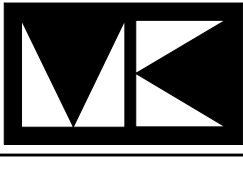
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REVISIONS	
MORGAN-KELLER, INC. Design / Build Construction Services 70 Thomas Johnson Drive • Frederick, Maryland 21702 301-663-0626	
Architect:	NuTec Design associates, inc.
Structural:	CON/STEEL* TILT-UP SYSTEMS LJB Inc. • 3100 Research Blvd. • P.O. Box 20246 Dayton, OH 45420-0246 (937) 259-5000 tel • (937) 259-5100 fax • ljb@ljb.com
WEDGEWOOD IV BUSINESS CENTER	
FREDERICK COUNTY, MARYLAND	
BUILDING THREE PANEL FORMING PLAN	
SCALE	FILE NAME
DRAWN BY JJS	JOB NO. 20499
CHECKED BY JJS	SHEET NO. PF3-1
DATE OCT. 03	REV.



NOTE:
PANEL WEIGHTS SHOWN ARE FOR PANEL ONLY.
NO ALLOWANCE HAS BEEN MADE FOR RIGGING WEIGHT.

REVISIONS	

**MORGAN-KELLER, INC.**
Design / Build
Construction Services
70 Thomas Johnson Drive • Frederick, Maryland 21702
301-663-0626

Architect:  NuTec Design associates, inc.
Structural:  **CON/STEEL® TILT-UP SYSTEMS**
 LJB Inc. • 3100 Research Blvd. • P.O. Box 20246
Dayton, OH 45420-0246
(937) 259-5000 tel • (937) 259-5100 fax • ljbinc.com

**WEDGEWOOD IV
BUSINESS CENTER**

FREDERICK COUNTY, MARYLAND

**BUILDING THREE
PANEL FORMING PLAN**

SCALE	FILE NAME
DRAWN BY: JJS	
CHECKED BY: JJS	20499
DATE: OCT. 03	SHEET NO. PF3-2