

CROSS-SECTION A
S-2,S-4

GENERAL NOTES

- ELEVATION DATUM**
SEE ARCHITECTURAL DRAWINGS OR SITE PLAN FOR FINISH FLOOR ELEVATIONS.
- DESIGN SPECIFICATIONS**
2000 INTERNATIONAL BUILDING CODE WITH 2002 WISCONSIN AMMENDMENTS.
- 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 CGC, INC. DATED JULY 23, 2003 (PROJECT NO. C03164).

FOOTINGS

- ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR ENGINEERED FILL.
 - 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 308 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:
- | | |
|------------------|--------------------|
| FOUNDATIONS | - 3,000 PSI |
| FOUNDATION WALLS | - 4,000 PSI |
| FLOOR SLAB | - 4,000 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 4000 PSI CONCRETE:
- | DIA. | TENSION | SHEAR |
|------|---------|--------|
| 1/2" | 1,450* | 1,781* |
| 3/8" | 2,091* | 2,973* |
| 3/4" | 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.

STRUCTURAL STEEL

- FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE AISC SPECIFICATIONS FOR STRUCTURAL 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 RETARDER 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" # 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.

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.

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 #119, 5/8" 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.

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DESIGN DATA

ROOF LOAD

LIVE LOAD	30
1 PLY MEMB. (BALLASTED), INSULATION & DECK	16
MECHANICAL ALLOWANCE	5
BAR JOISTS	3
TOTAL TO JOISTS	54 LBS./FT. ²
BEAMS OR JOIST GIRDERS	2
TOTAL TO BEAMS OR JOIST GIRDERS	56 LBS./FT. ²

BUILDING CATEGORY I

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

P_g = 35 LBS./FT.²
P_f = 27 LBS./FT.²
C_e = 1.1
I_s = 1.0
C_t = 1.0

BASIC DESIGN WIND LOAD

BASIC WIND SPEED (3-SECOND GUST) V = 90 M.P.H.
WIND IMPORTANCE FACTOR I_w = 1.0
BUILDING CATEGORY I
WIND EXPOSURE C
INTERNAL PRESSURE COEFFICIENT 0.18

ALLOWABLE SOIL BEARING 3,500 LBS./FT.²

EARTHQUAKE DESIGN DATA

S_{ps} = 0.122
S_m = 0.074
SEISMIC USE GROUP I
SITE CLASS "D" (ASSUMED)
BASIC STRUCTURAL SYSTEM - LOADBEARING WALL SYSTEM
SEISMIC-FORCE RESISTING SYSTEM - REINFORCED CONCRETE SHEAR WALLS
DESIGN BASE SHEAR = 0.025W
ANALYSIS PROCEDURE - EQUIVALENT LATERAL FORCE PROCEDURE

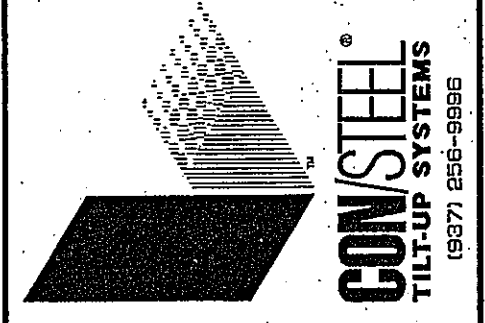
CLEAR HEIGHT

MIN. CLR. HT. TO JOIST (WAREHOUSE)	24'-6 1/2"
MIN. CLR. HT. TO GIRDER (WAREHOUSE)	23'-6"
MIN. CLR. HT. TO JOIST (OFFICE)	12'-0"
MIN. CLR. HT. TO GIRDER (OFFICE)	10'-1 1/2"

BUILDING FLOOR AREA

SLAB ON GRADE 112,600 SQ. FT.

NO.	DATE	DESCRIPTION	BY
6	11-7-03	RELEASED FOR PERMIT/CONSTRUCTION	STR
5	10-23-03	RELEASED FOR CONSTRUCTION PERMIT	STR
4	10-07-03	RELEASED FOR REVIEW	STR
3	10-04-03	RELEASED FOR REVIEW	STR
2	7-16-03	RELEASED BUILDING DIMENSIONS	STR
1	3-10-03	RELEASED FOR REVIEW	STR



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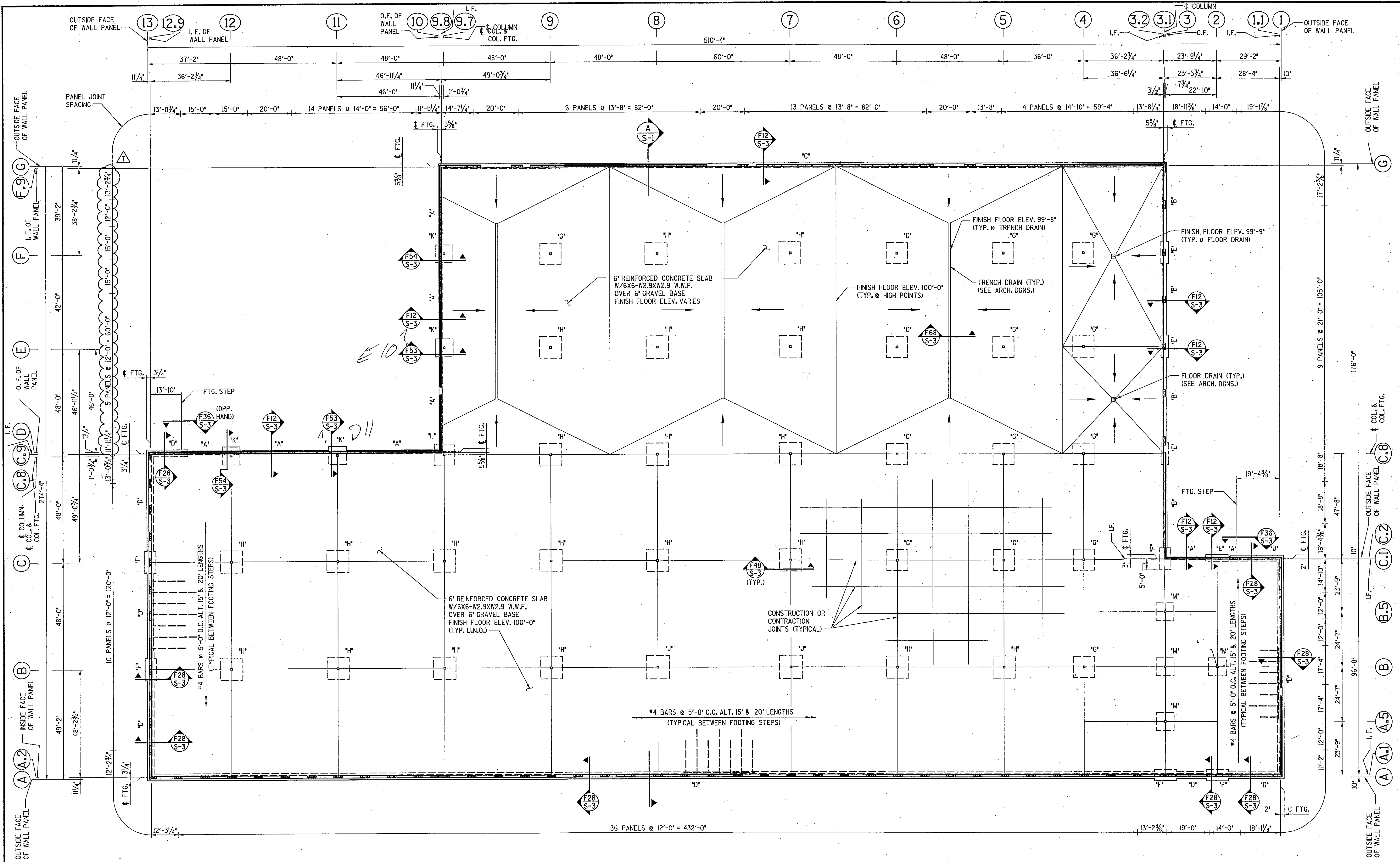
AS BUILT



SHEET TITLE: GENERAL STRUCTURAL DATA

DESIGNED	STR	JOB NO.	20442
DRAWN	WLP	CHECKED	
DATE	MAR. 03	SHEET NO.	S-1

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WALL FOOTING SCHEDULE				
MARK	WIDTH (W)	LENGTH (L)	DEPTH (D)	REINFORCING
A	1'-6"	CONT.	3'-6"	3-#5 TOP & BOTTOM
B	1'-9"	CONT.	3'-6"	3-#5 TOP & BOTTOM
C	2'-0"	CONT.	3'-6"	3-#5 TOP & BOTTOM
D	3'-0"	CONT.	3'-6"	5-#5 TOP & BOTTOM
E	3'-6"	10'-0"	3'-6"	3-#5 CONT. & 3-#5X9'-8" ADDL. TOP & BOTTOM
F	5'-0"	10'-0"	3'-6"	5-#5 CONT. & 3-#5X9'-8" ADDL. TOP & BOTTOM

COLUMN FOOTING SCHEDULE				
MARK	WIDTH (W)	LENGTH (L)	DEPTH (D)	REINFORCING
G	9'-6"	9'-6"	2'-0"	13-#6 EACH WAY
H	10'-0"	10'-0"	2'-0"	14-#6 EACH WAY
J	10'-6"	10'-6"	2'-0"	15-#6 EACH WAY
K	8'-0"	8'-0"	3'-6"	13-#5 EACH WAY TOP & BOTTOM
L	9'-0"	9'-0"	3'-6"	14-#5 EACH WAY TOP & BOTTOM
M	8'-0"	8'-0"	1'-9"	12-#6 EACH WAY

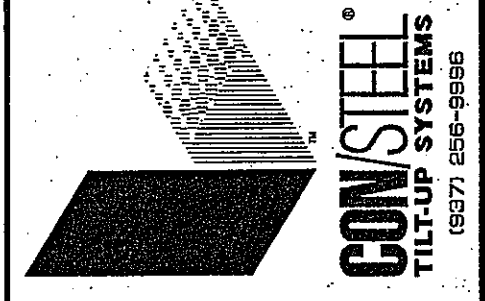
FOUNDATION PLAN

AS BUILT



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REVISIONS			
NO.	DATE	DESCRIPTION	BY
7	11-7-03	RELEASED FOR PERMIT CONSTRUCTION	STR
6	10-23-03	RELEASED FOR CONSTRUCTION	STR
5	10-07-03	RELEASED FOR FOUNDATION PERMIT.	STR
4	10-04-03	RELEASED FOR REVIEW	STR
3	7-16-03	REVISED BUILDING DIMENSIONS	STR
2	3-13-03	RELEASED FOR REVIEW	STR
1	3-10-03	RELEASED FOR REVIEW	STR

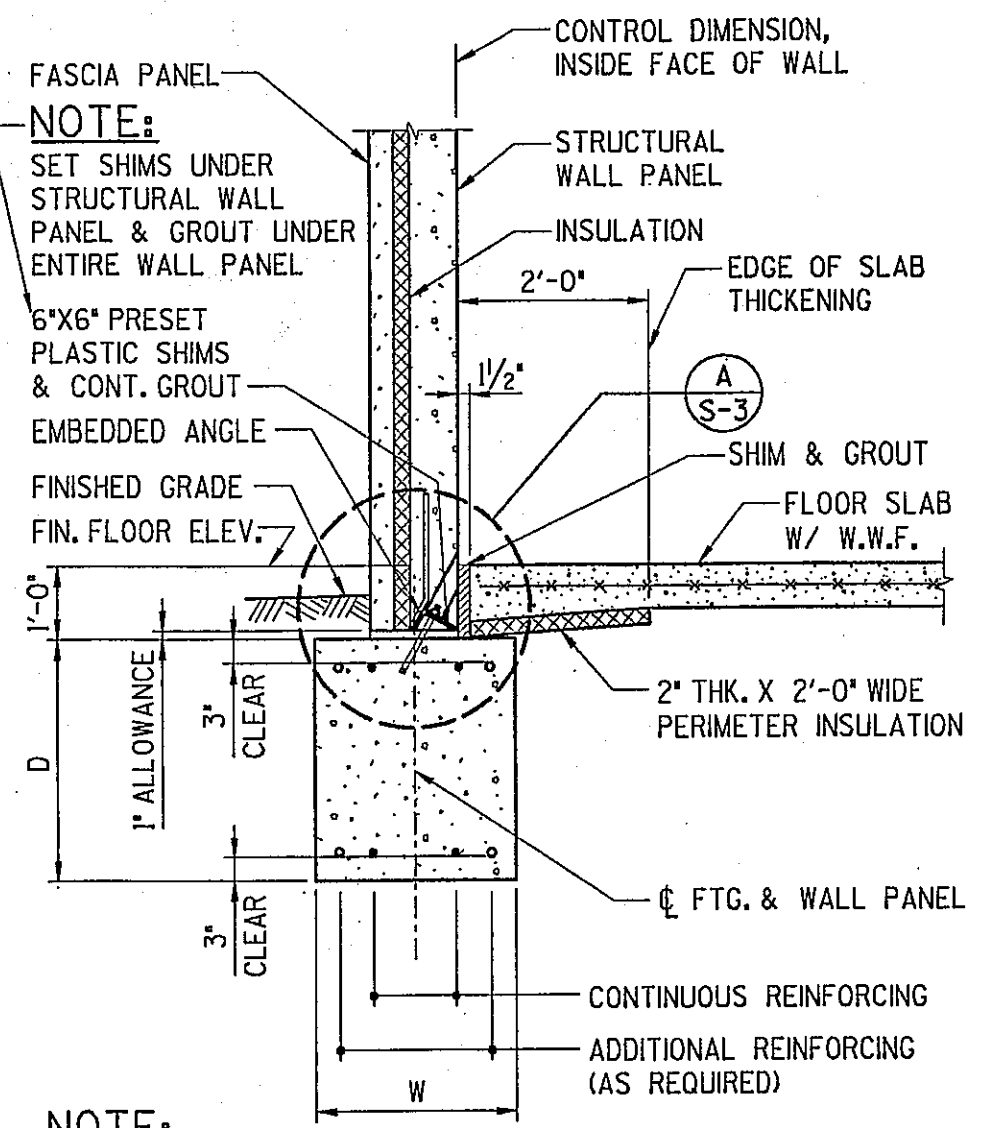


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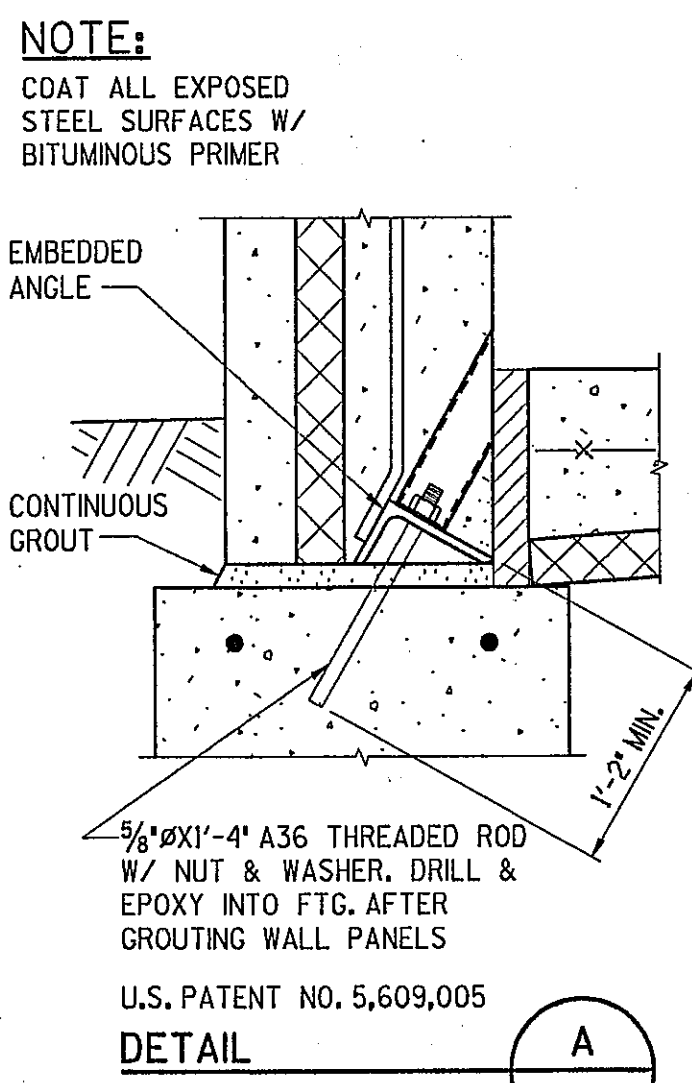
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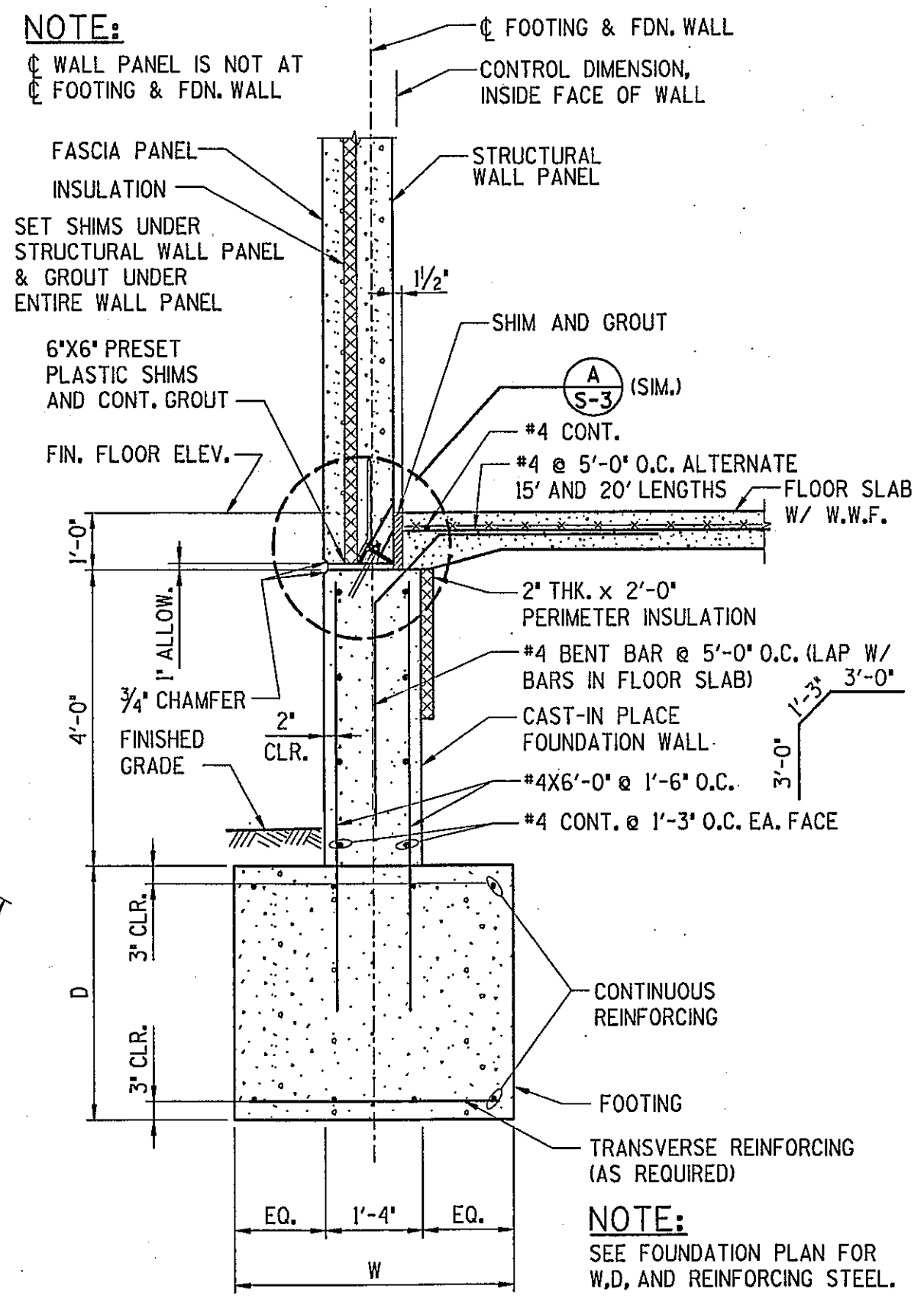
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DESIGNED	STR
DRAWN	JJS
CHECKED	
DATE	MAR. 03
JOB NO.	20442
SHEET NO.	S-2



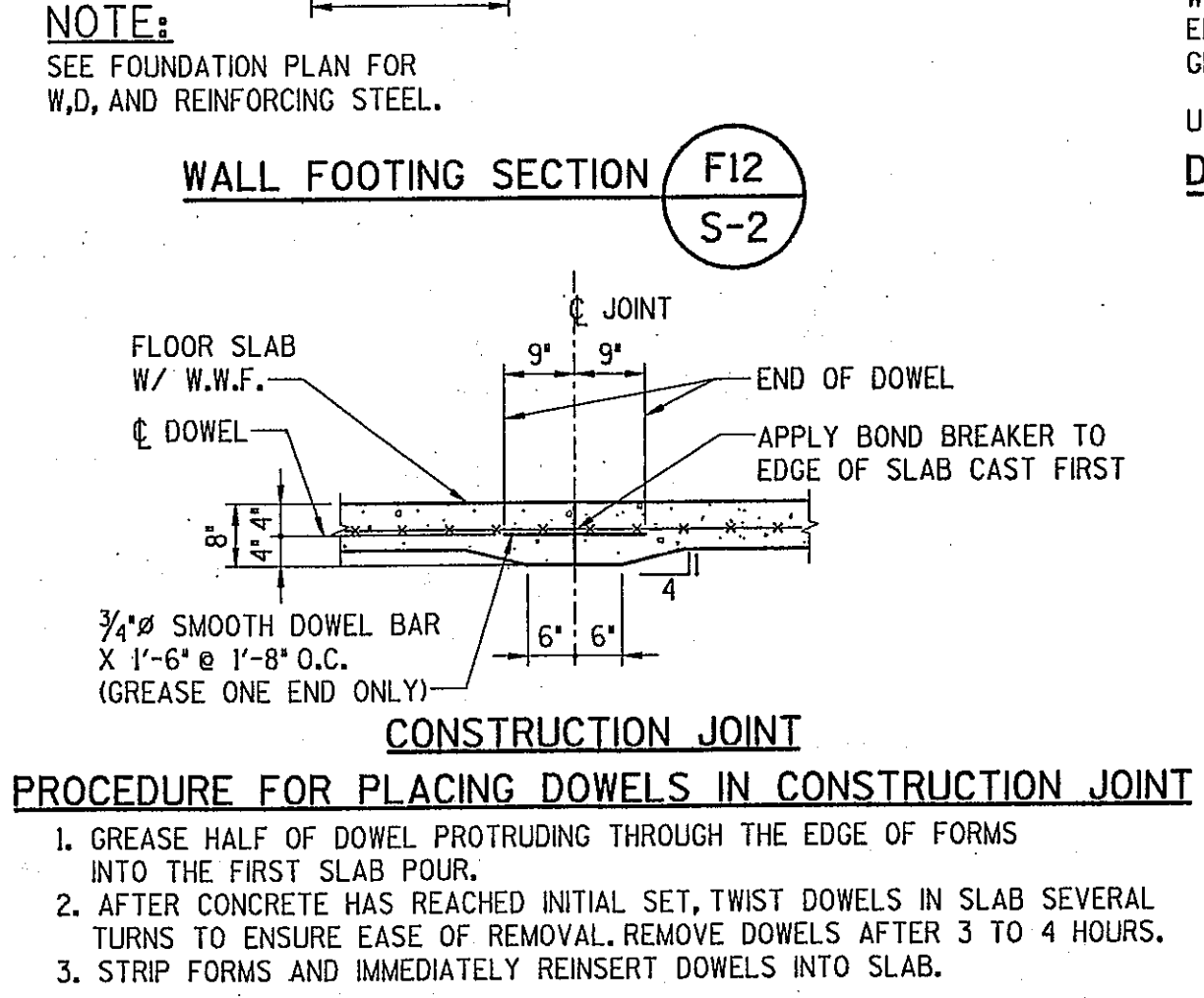
WALL FOOTING SECTION (F12 S-2)



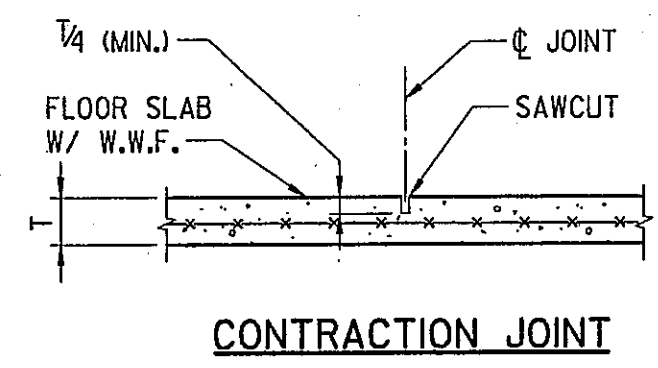
DETAIL (A S-3)



WALL FOOTING SECTION (F28 S-2)

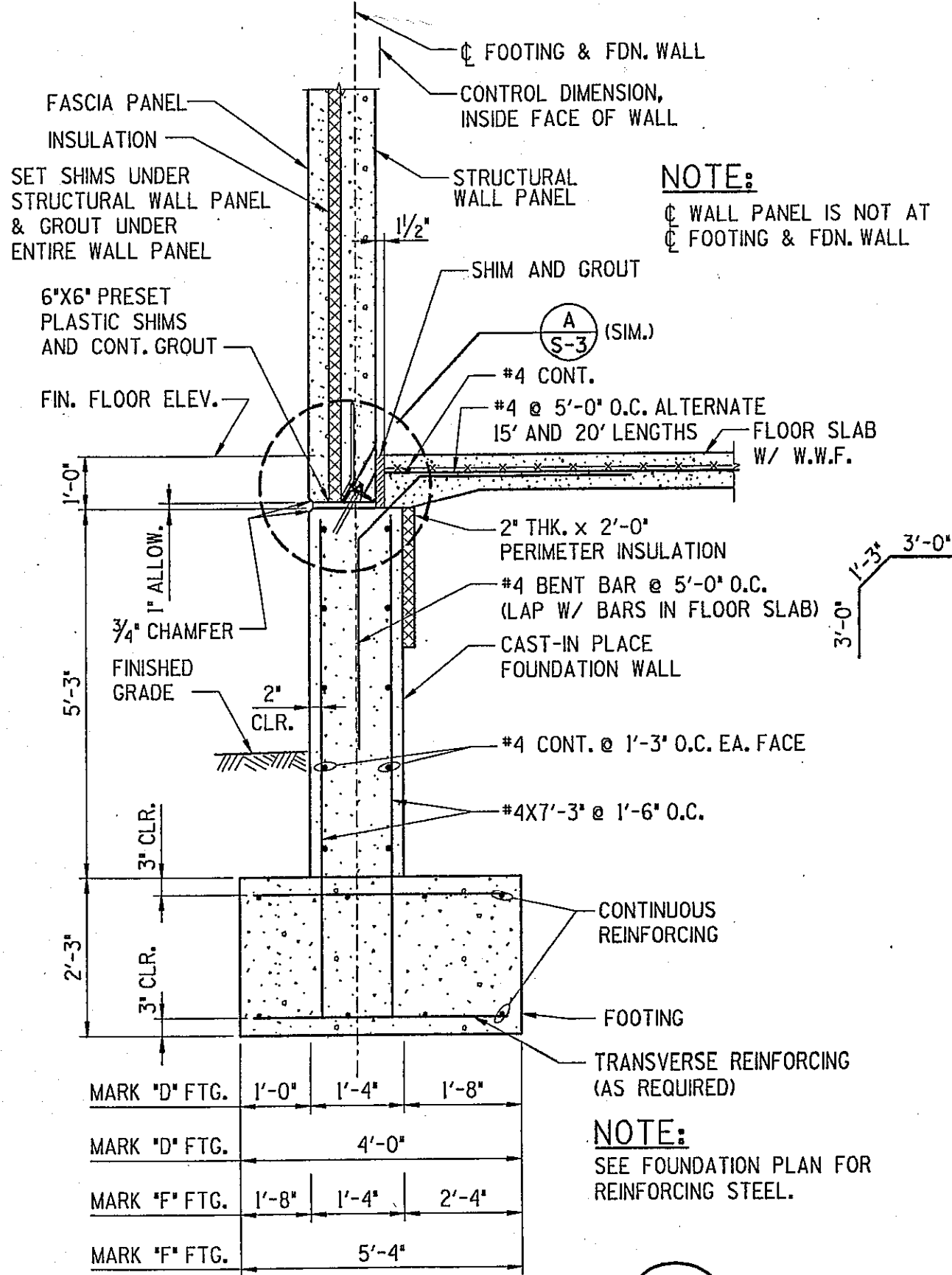


CONSTRUCTION JOINT PROCEDURE FOR PLACING DOWELS IN CONSTRUCTION JOINT

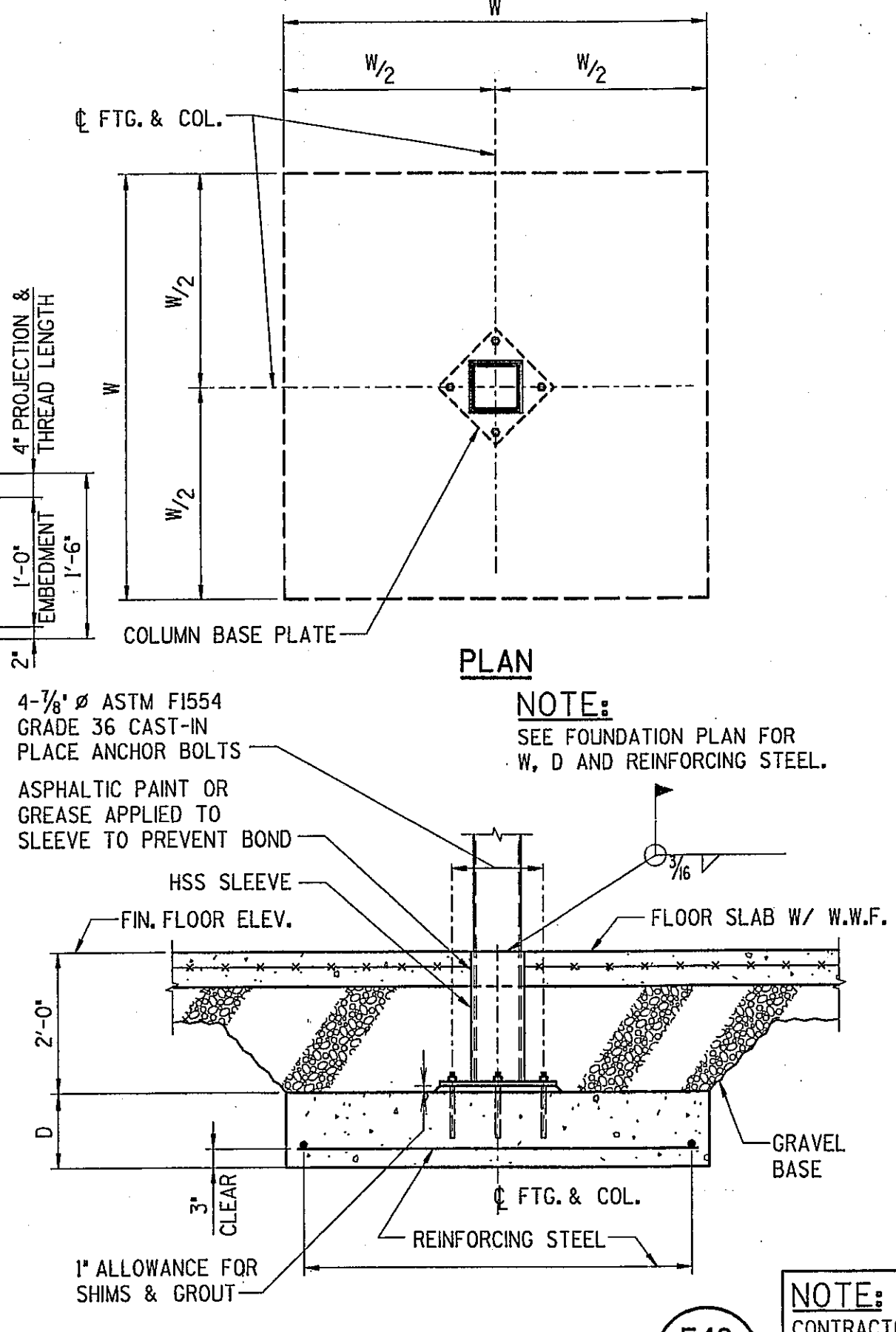


CONTRACTION JOINT

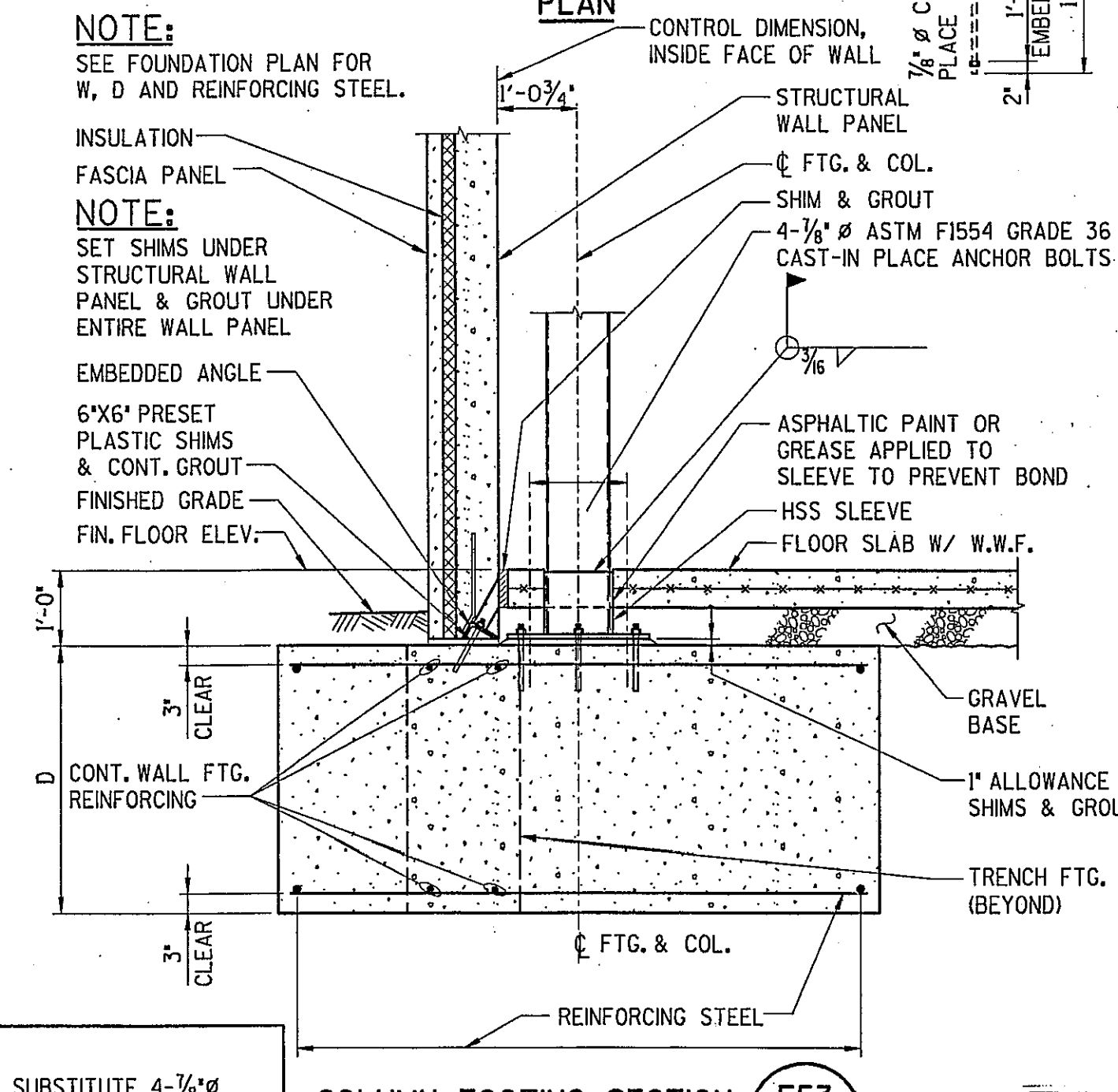
NOTE: CONCRETE ANCHORS SHALL NOT BE FASTENED INTO CONCRETE UNTIL A COMPRESSIVE STRENGTH OF 2000 PSI HAS BEEN OBTAINED.



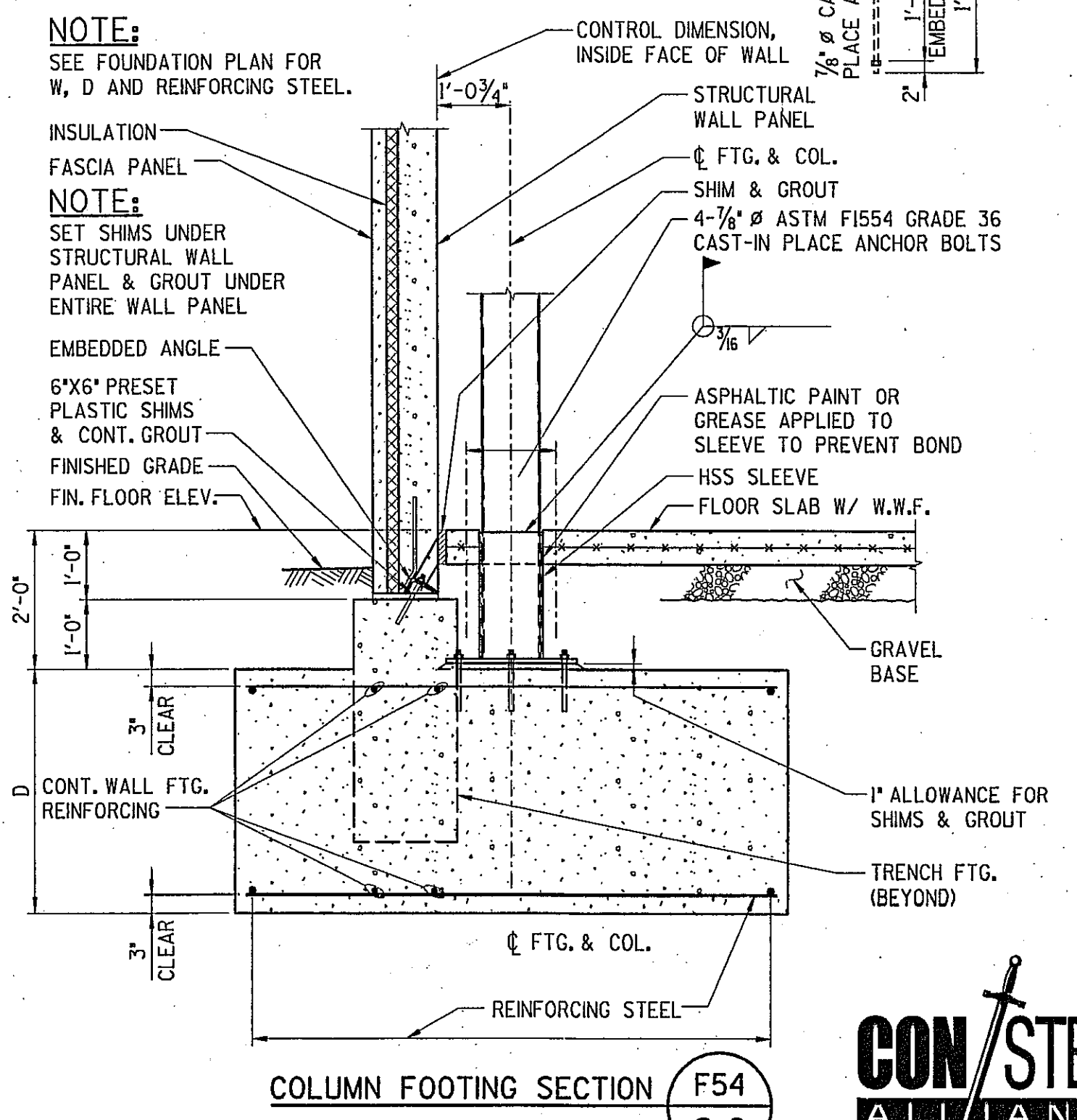
ALTERNATE WALL FOOTING SECTION (F28 S-2)



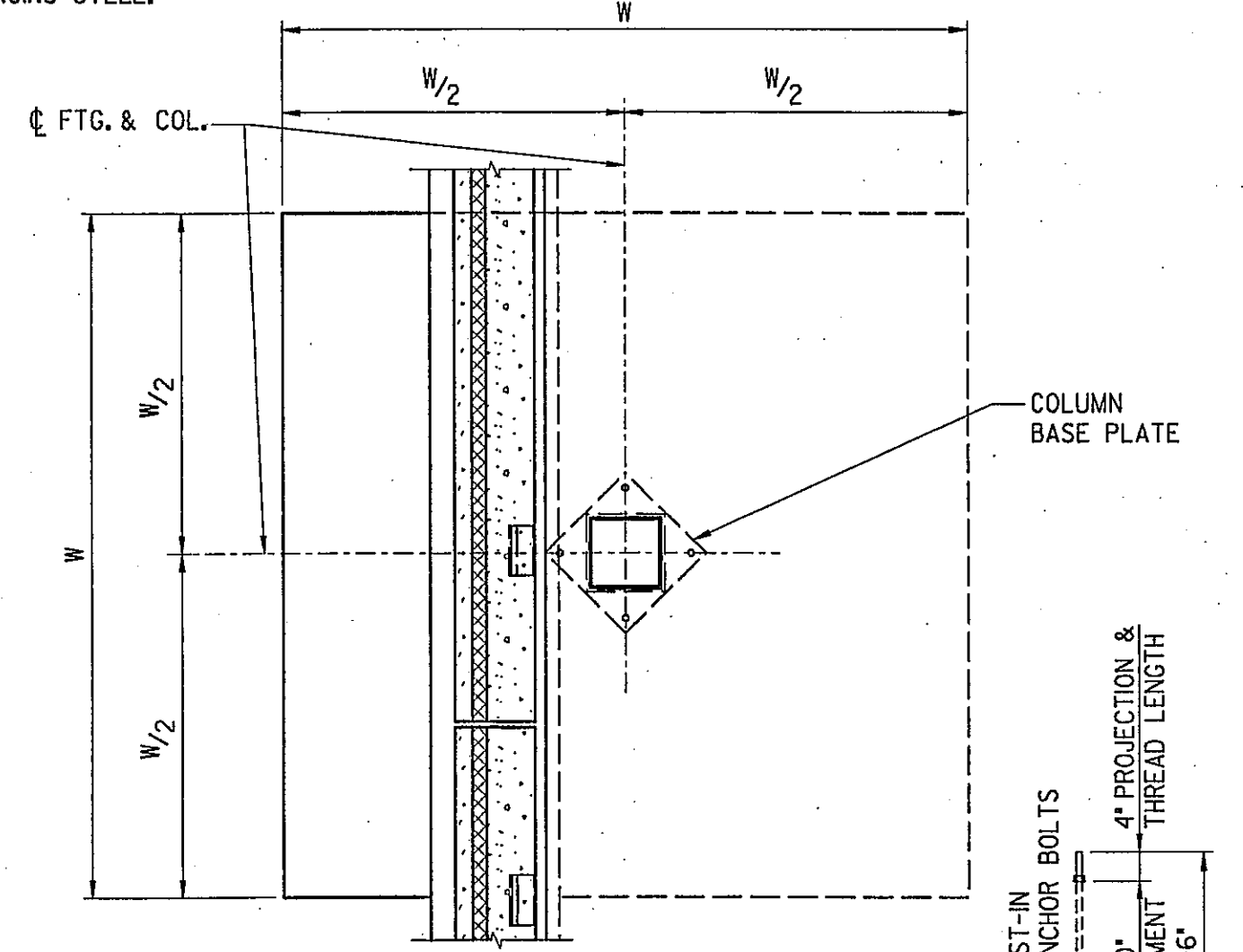
COLUMN FOOTING SECTION (F48 S-2)



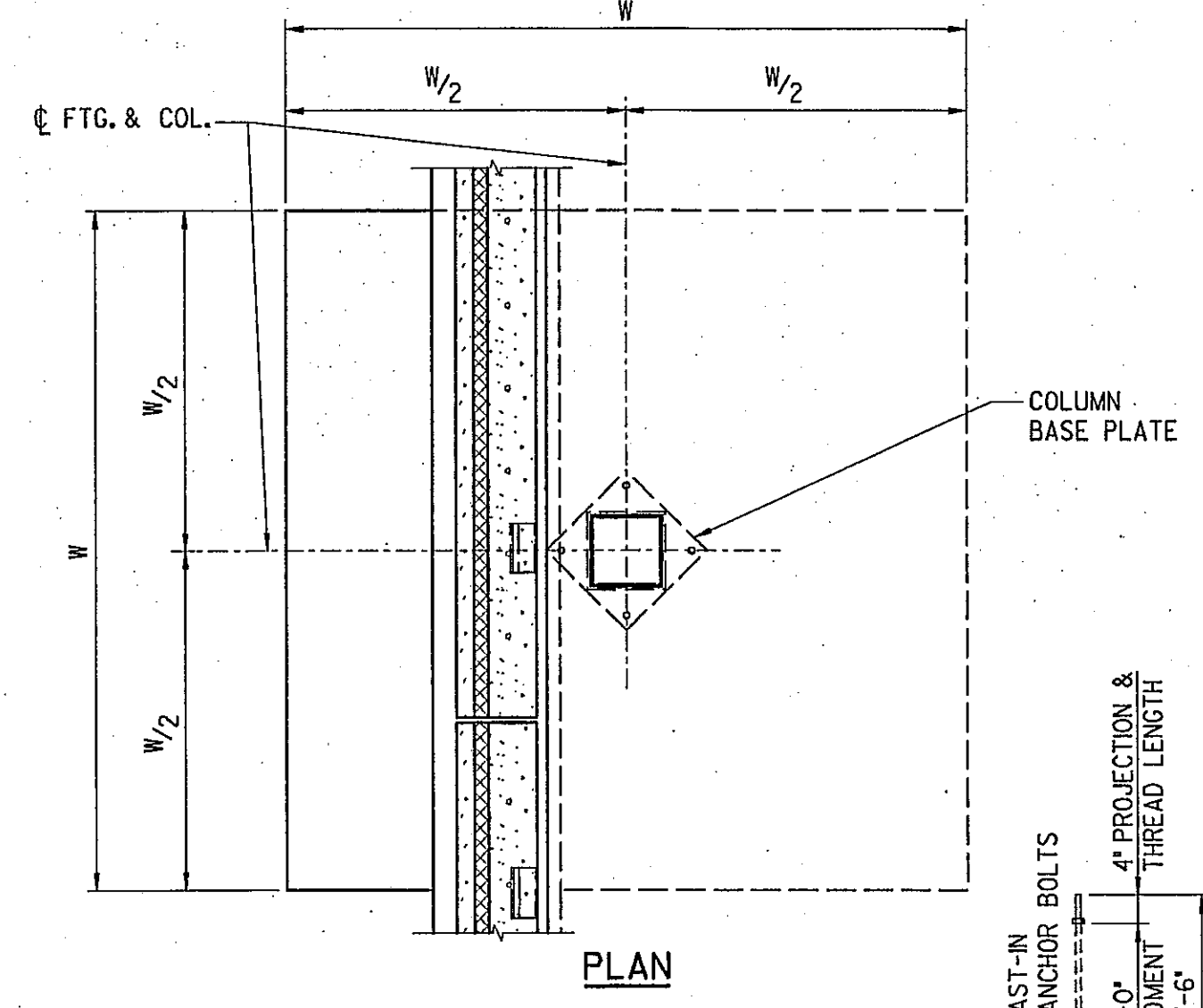
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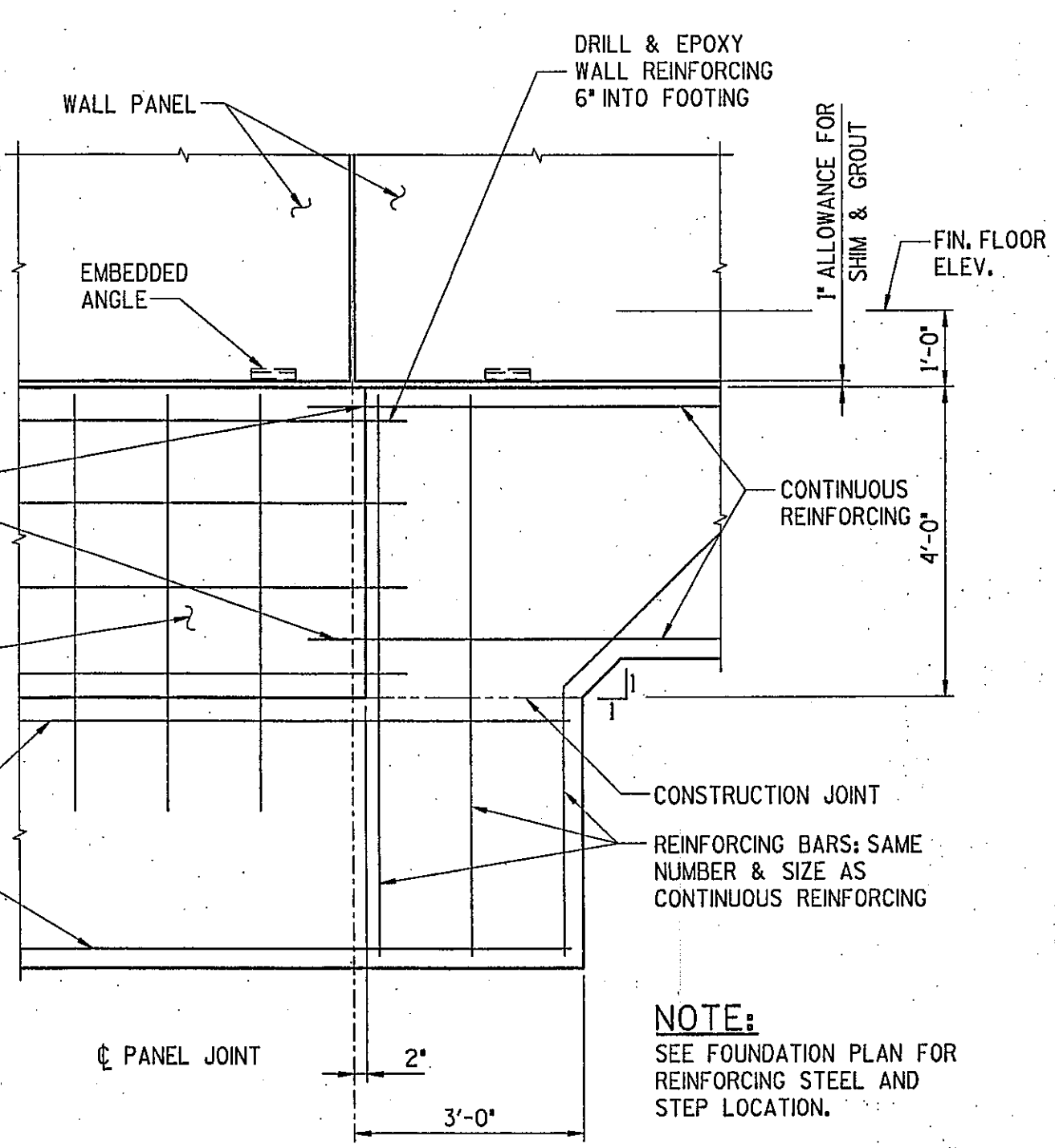
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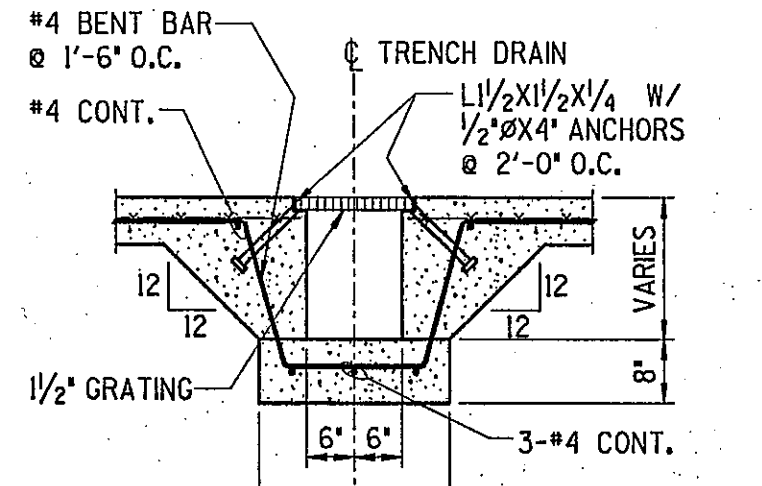
PLAN



PLAN



FOOTING STEP SECTION (F36 S-2)



TRENCH DRAIN SECTION (F68 S-2)

NOTE: CONTRACTOR OPTION TO USE PREFABRICATED TRENCH DRAIN PER ARCHITECT & OWNER REQUIREMENTS

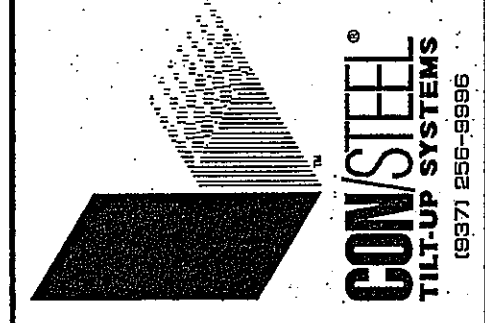
NOTE: SEE FOUNDATION PLAN FOR REINFORCING STEEL AND STEP LOCATION.

NOTE: CONTRACTOR MAY SUBSTITUTE 4-1/8 inch THREADED RODS EPOXY INTO FOOTING W/ MIN. 10 inch EMBEDMENT FOR ANCHOR BOLTS

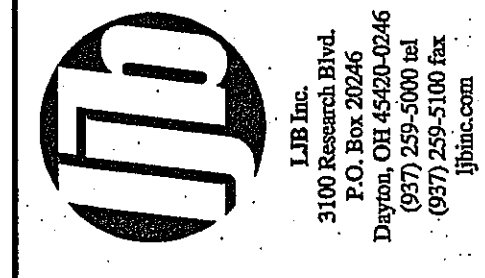
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CON/STEEL ALLIANCE

NO.	DATE	DESCRIPTION	BY
1	3-10-03	RELEASED FOR REVIEW	
2	7-16-03	REVISED BUILDING DIMENSIONS	
3	10-04-03	RELEASED FOR PERMIT	
4	10-07-03	RELEASED FOR FOUNDATION PERMIT	
5	10-23-03	RELEASED FOR CONSTRUCTION	
6	11-7-03	RELEASED FOR PERMIT/CONSTRUCTION	



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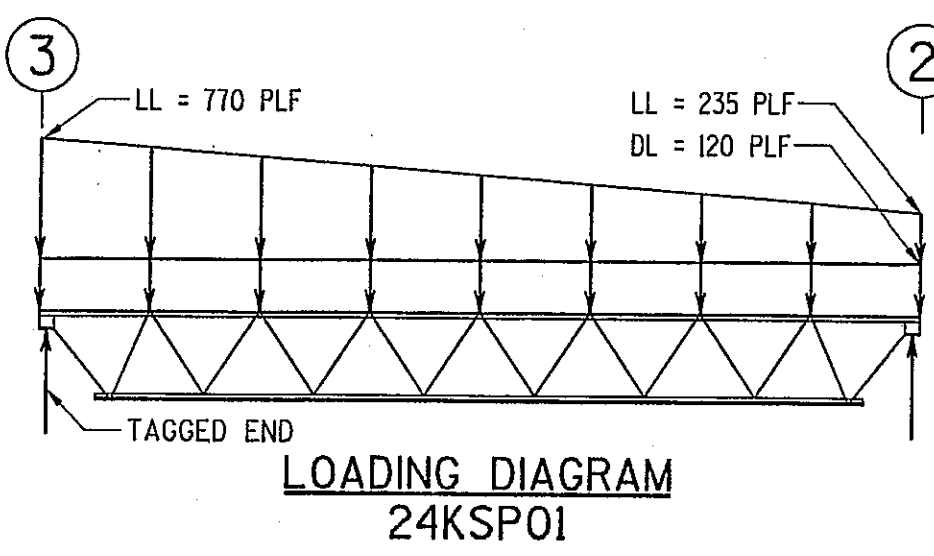
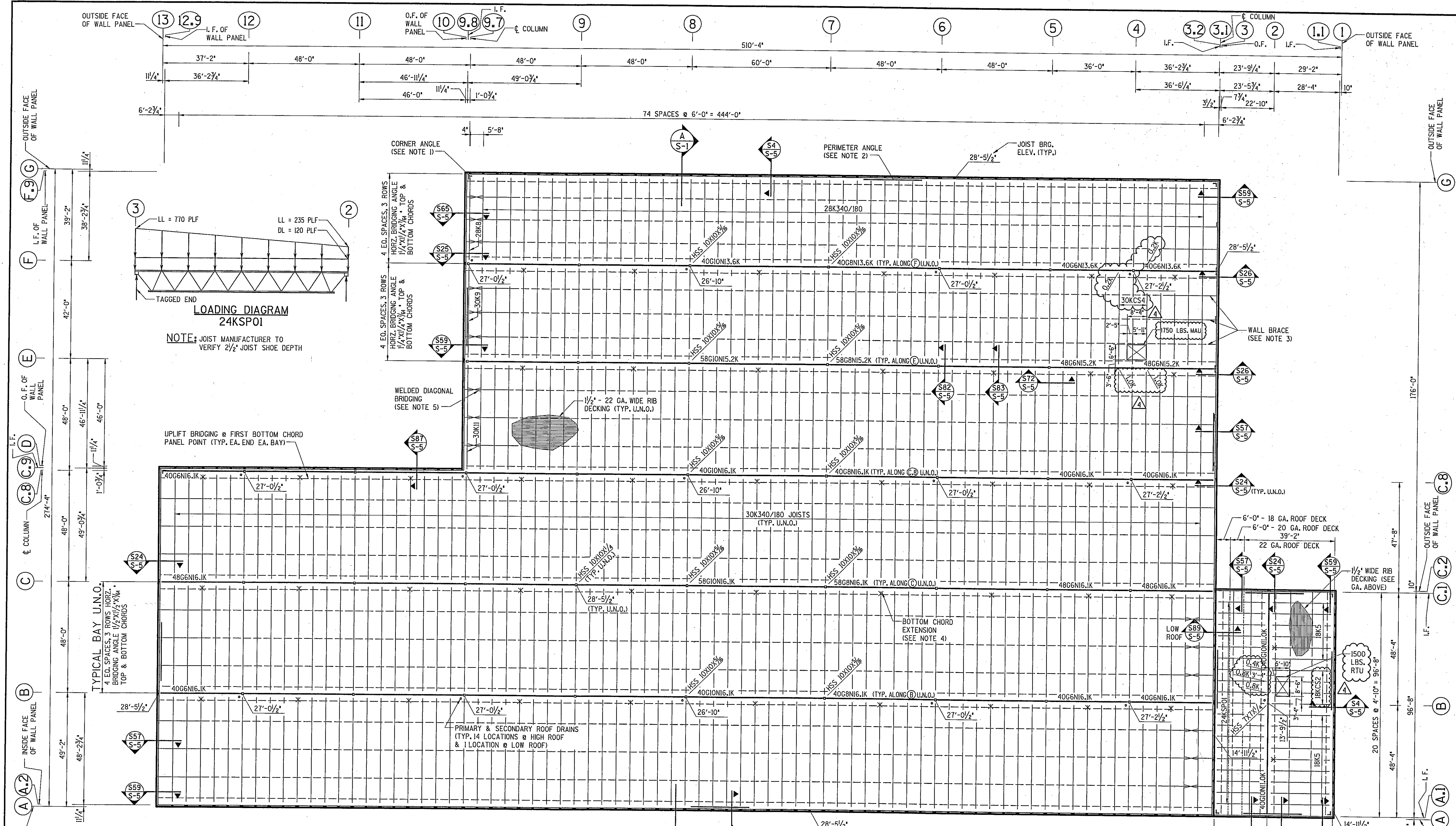
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SHEET TITLE: FOUNDATION DETAILS

DESIGNED	STR	JOB NO.
DRAWN	JJS	20442
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DATE	MAR. 03	S-3

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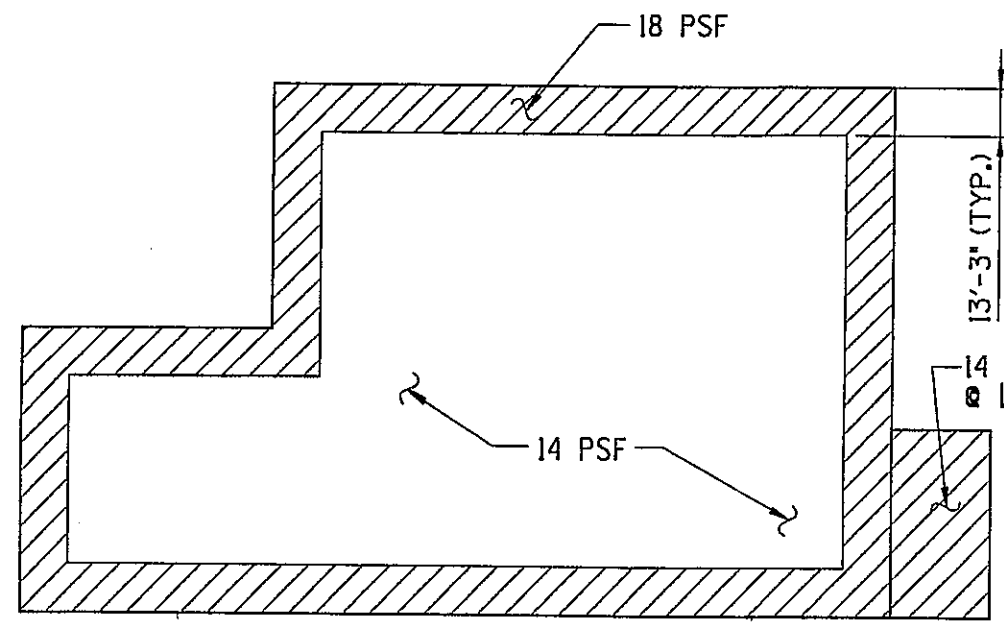
NOTE: JOIST MANUFACTURER TO VERIFY 2 1/2" JOIST SHOE DEPTH

UPLIFT BRIDGING @ FIRST BOTTOM CHORD PANEL POINT (TYP. EA. END EA. BAY)

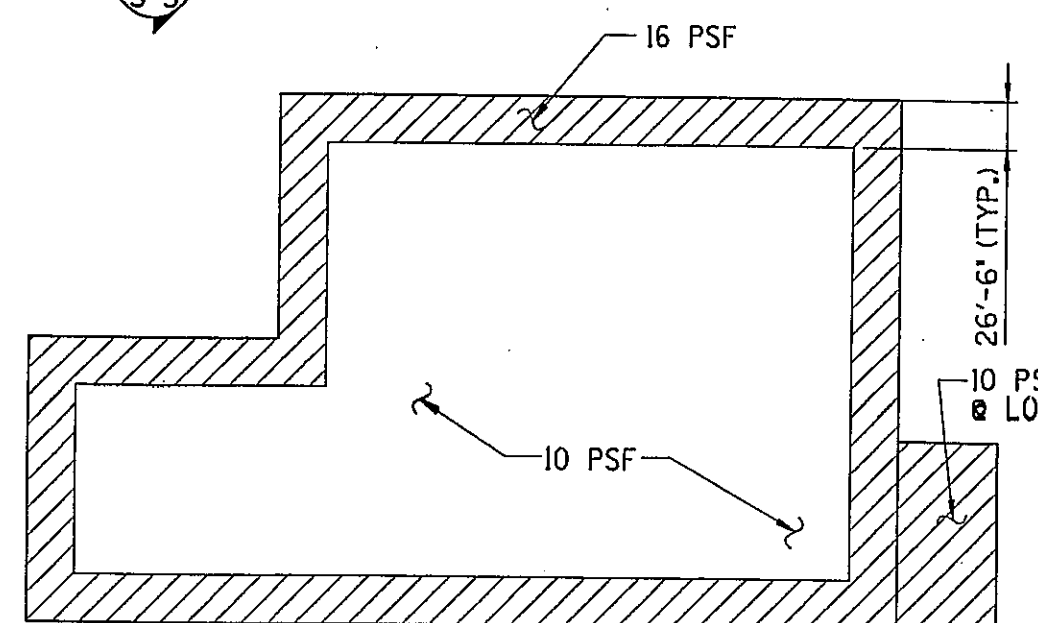
TYPICAL BAY U.N.O.
4 EQ. SPACES, 3 ROWS HORIZ. BRIDGING ANGLE 1/2"x1/4"x3/8" TOP & BOTTOM CHORDS

NOTES:

- INSTALL CORNER ANGLE OR BENT PLATE AT EMBED LOCATIONS ILLUSTRATED ON WALL PANEL LAYOUT (JUST BELOW ROOF AND AT MID-HEIGHT OF PANEL). TYPICAL ALL 90° CORNERS AS SHOWN.
- PERIMETER ANGLE 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. SEE SECTIONS FOR SIZES.
- WALL BRACE ANGLE 2 1/2"x2 1/2"x3/8"x20'-0" TYPICAL EACH END EACH BAY.
- "x" DENOTES LOCATION OF BOTTOM CHORD EXTENSIONS.
- WELDED DIAGONAL BRIDGING IN ADDITION TO HORIZONTAL BRIDGING IS REQUIRED WHERE SHOWN BY X-X-X.
- DESIGN JOIST GIRDERS FOR ADDITIONAL PANEL POINT LOADS SHOWN ON ROOF FRAMING PLAN BY X-X-X.
- JOISTS AND JOIST GIRDERS SHALL BE DESIGNED FOR A NET UPLIFT AS SHOWN IN DIAGRAM.
- DESIGN OF UPLIFT BRIDGING AND ADDITIONAL BOTTOM CHORD EXTENSIONS IS THE RESPONSIBILITY OF THE JOIST AND JOIST GIRDER MANUFACTURER.
- VERIFICATION OF BRIDGING AS SHOWN IS THE RESPONSIBILITY OF JOIST MANUFACTURER.
- ALL JOIST SHOES ARE 2 1/2" DEEP. ALL JOIST GIRDER SHOES ARE 7 1/2" DEEP. NOTIFY ENGINEER IF REQUIRED SHOE DEPTH IS DIFFERENT.
- ALL ELEVATIONS ARE TO JOIST BEARING A.F.F. UNLESS NOTED OTHERWISE.
- FRAMES ARE REQUIRED FOR ALL ROOF OPENINGS UNLESS APPROVED BY ENGINEER.

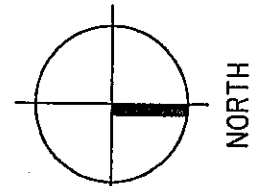


JOIST NET UPLIFT DIAGRAM



GIRDER NET UPLIFT DIAGRAM

ROOF FRAMING PLAN

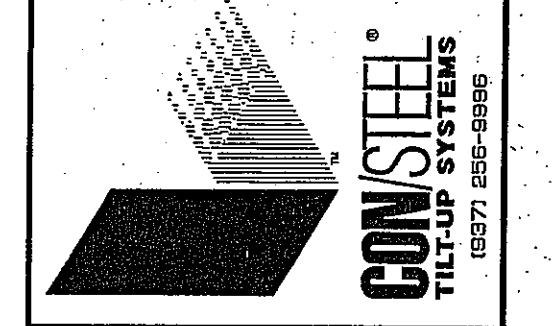


AS BUILT

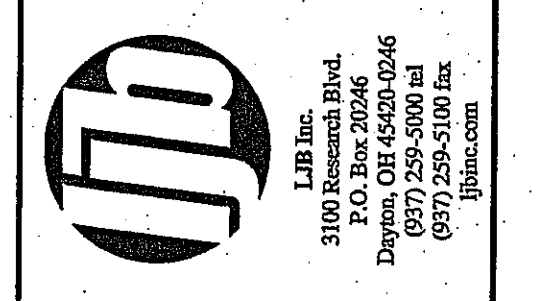


Handwritten notes and signatures in the top right corner.

NO.	DATE	DESCRIPTION	REVISIONS
1	3-11-03	RELEASED FOR REVIEW	
2	7-16-03	REVISED BUILDING DIMENSIONS	
3	10-24-03	RELEASED FOR CONSTRUCTION	
4	11-7-03	RELEASED FOR PERMIT CONSTRUCTION	



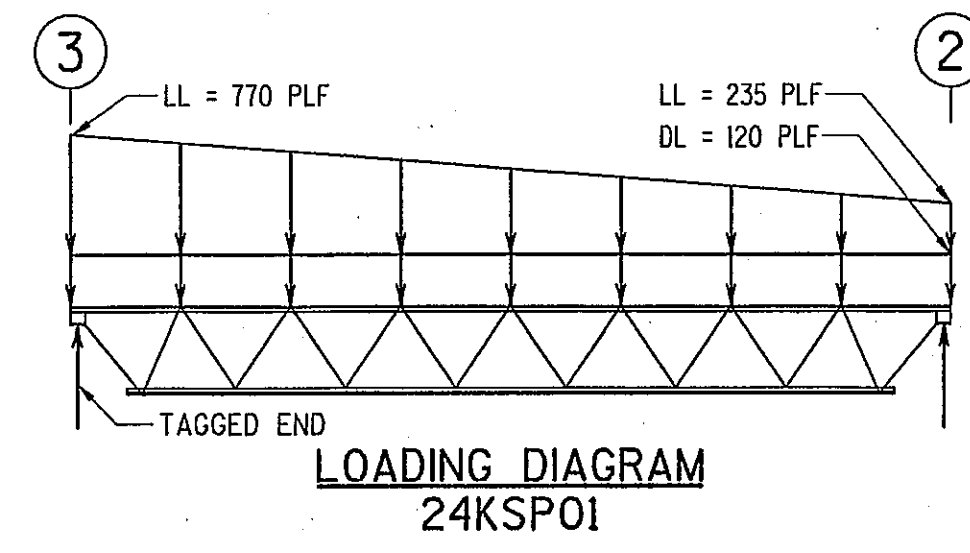
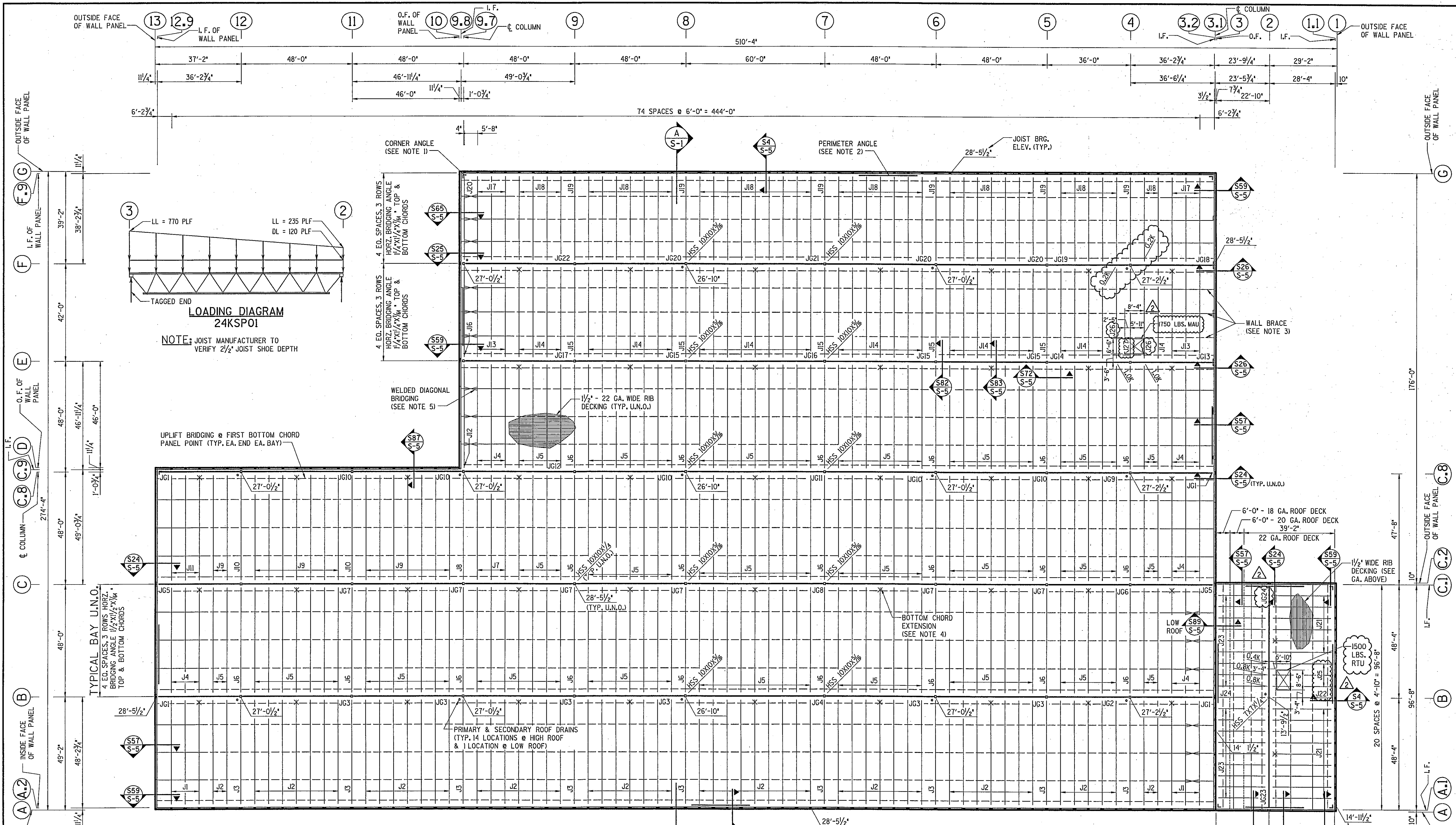
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SHEET TITLE		ROOF FRAMING PLAN	
DESIGNED	STR	JOB NO.	
DRAWN	JJS		20442
CHECKED		SHEET NO.	
DATE	MAR. 03		S-4

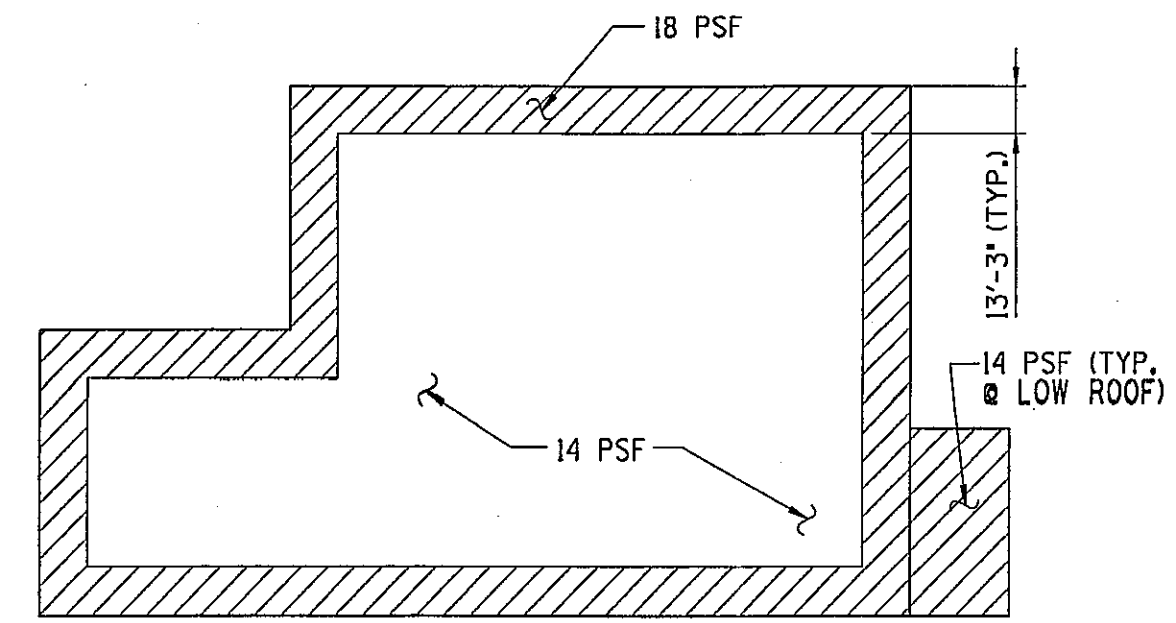
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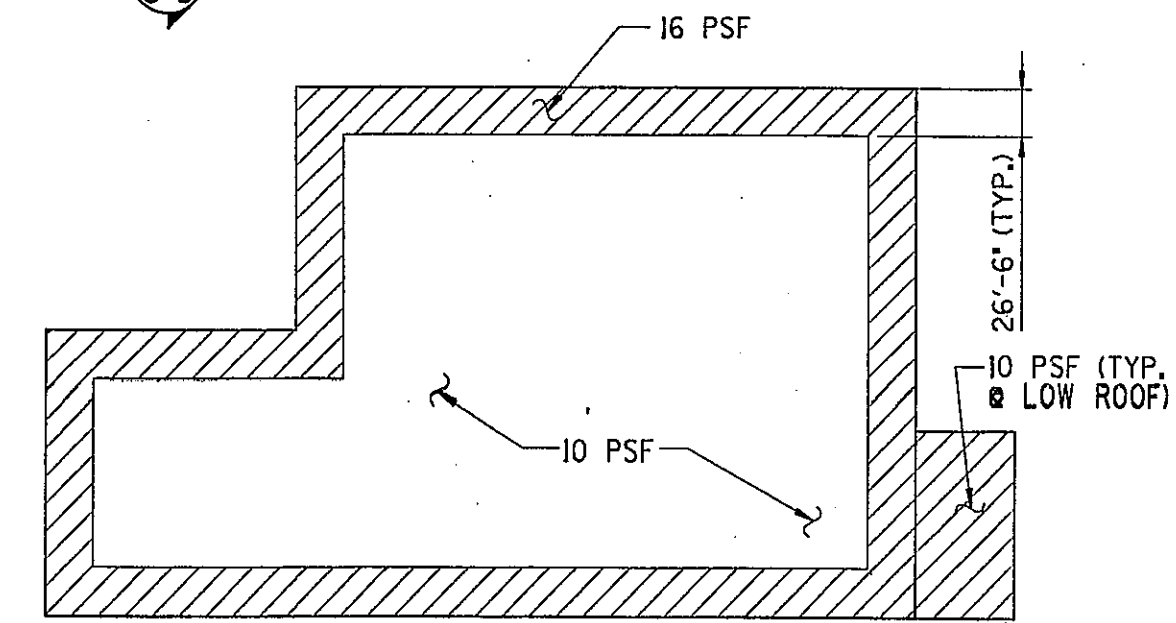
NOTE: JOIST MANUFACTURER TO VERIFY 2 1/2" JOIST SHOE DEPTH

UPLIFT BRIDGING @ FIRST BOTTOM CHORD PANEL POINT (TYP. EA. END EA. BAY)

- NOTES:**
- INSTALL CORNER ANGLE OR BENT PLATE AT EMBED LOCATIONS ILLUSTRATED ON WALL PANEL LAYOUT (JUST BELOW ROOF AND AT MID-HEIGHT OF PANEL). TYPICAL ALL 90° CORNERS AS SHOWN.
 - PERIMETER ANGLE 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. SEE SECTIONS FOR SIZES.
 - WALL BRACE ANGLE 2 1/2" X 2 1/2" X 3/8" X 20'-0" TYPICAL EACH END EACH BAY.
 - "x" DENOTES LOCATION OF BOTTOM CHORD EXTENSIONS.
 - WELDED DIAGONAL BRIDGING IN ADDITION TO HORIZONTAL BRIDGING IS REQUIRED WHERE SHOWN BY \times .
 - DESIGN JOIST GIRDERS FOR ADDITIONAL PANEL POINT LOADS SHOWN ON ROOF FRAMING PLAN BY \times .
 - JOISTS AND JOIST GIRDERS SHALL BE DESIGNED FOR A NET UPLIFT AS SHOWN IN DIAGRAM.
 - DESIGN OF UPLIFT BRIDGING AND ADDITIONAL BOTTOM CHORD EXTENSIONS IS THE RESPONSIBILITY OF THE JOIST AND JOIST GIRDER MANUFACTURER.
 - VERIFICATION OF BRIDGING AS SHOWN IS THE RESPONSIBILITY OF JOIST MANUFACTURER.
 - ALL JOIST SHOES ARE 2 1/2" DEEP. ALL JOIST GIRDER SHOES ARE 7 1/2" DEEP. NOTIFY ENGINEER IF REQUIRED SHOE DEPTH IS DIFFERENT.
 - ALL ELEVATIONS ARE TO JOIST BEARING A.F.F. UNLESS NOTED OTHERWISE.
 - FRAMES ARE REQUIRED FOR ALL ROOF OPENINGS UNLESS APPROVED BY ENGINEER.

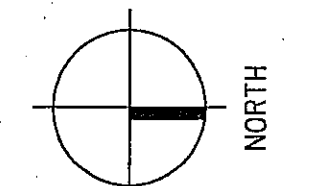


JOIST NET UPLIFT DIAGRAM



GIRDER NET UPLIFT DIAGRAM

ROOF FRAMING PLAN

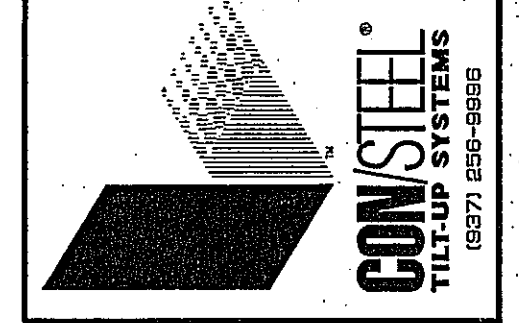


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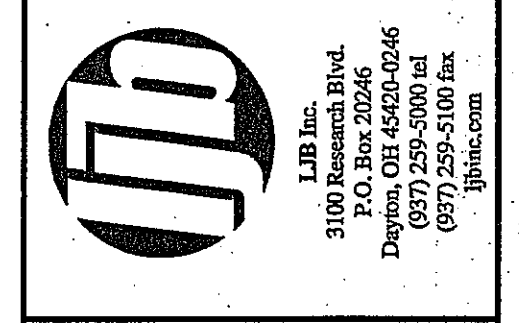


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2	11-7-03	RELEASED FOR PERMIT CONSTRUCTION	STR

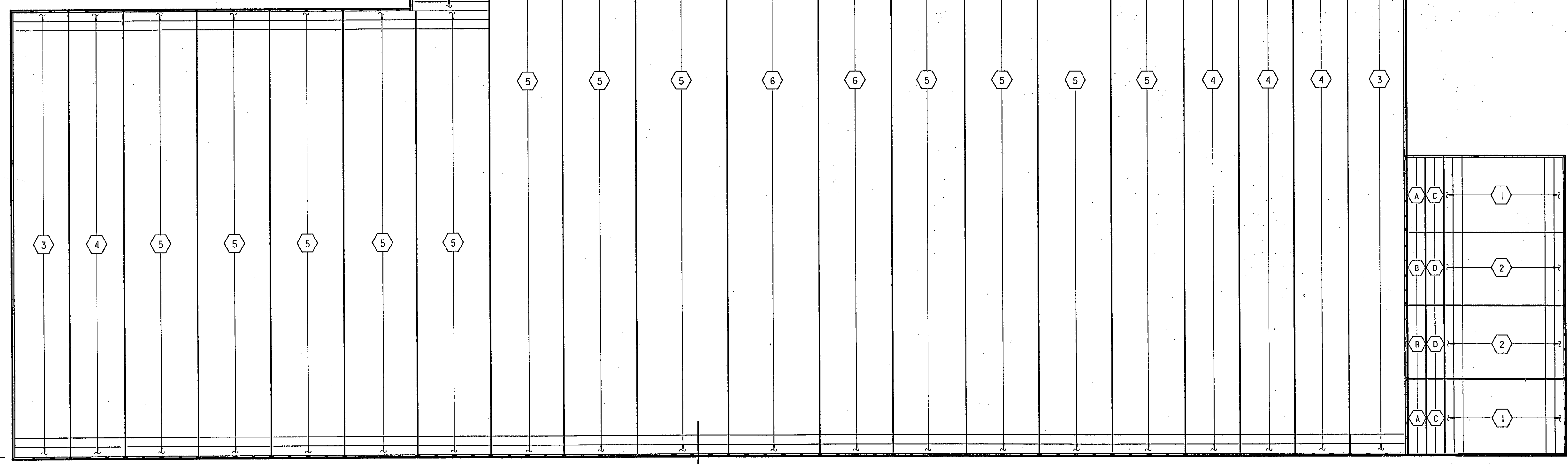
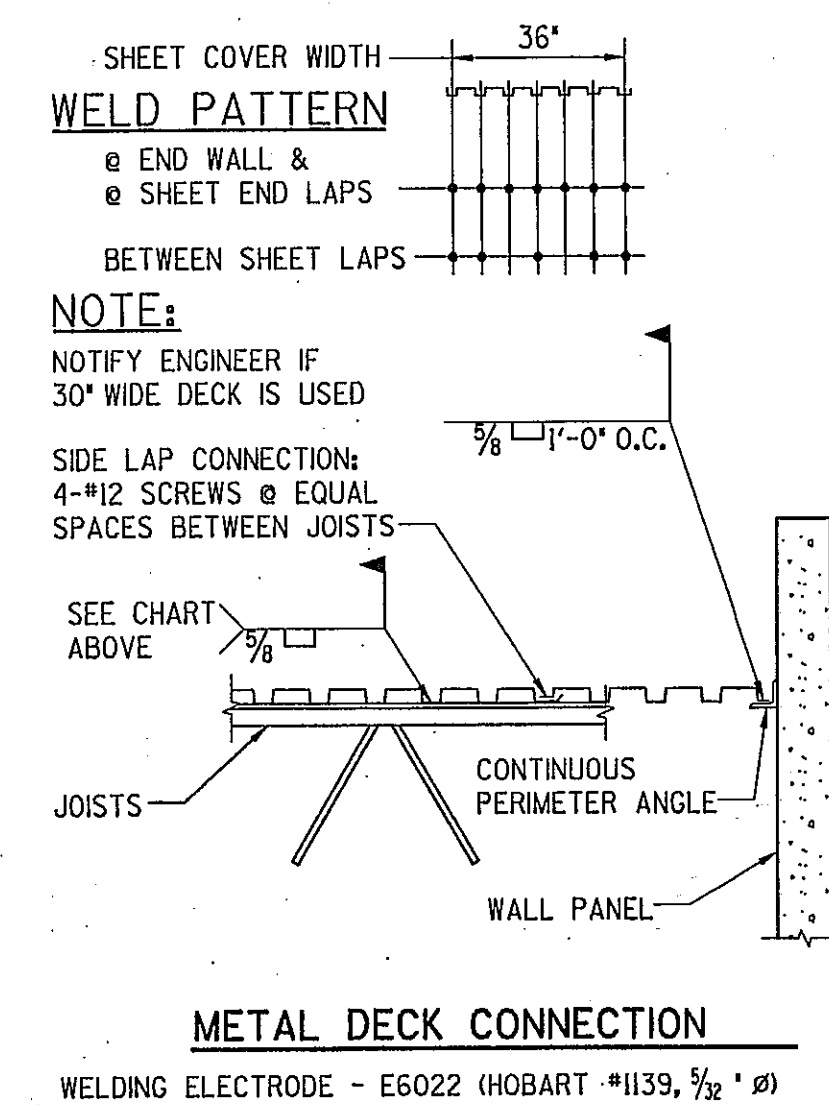
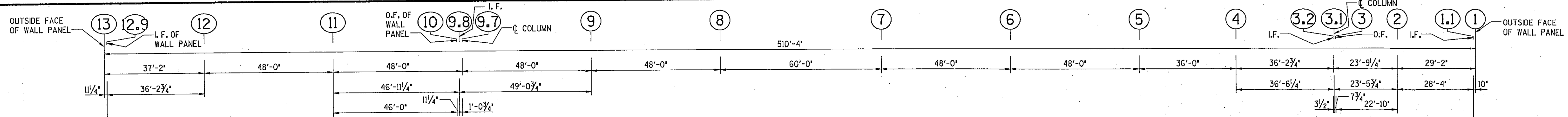


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SHEET TITLE		ROOF FRAMING PLAN	
DESIGNED	STR	JOB NO.	
DRAWN	JCL		20442
CHECKED		SHEET NO.	
DATE	OCT. 03		S-4A

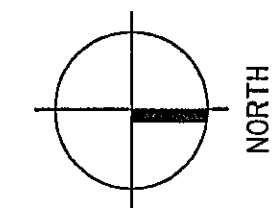


MATERIAL LIST					
1/2" TYPE B (WIDE RIB) ROOF DECK					
22 GA. 36" COVERAGE PAINTED GREY (CONTRACTOR VERIFY)					
MARK	NO. PIECES	LENGTH	MARK	NO. PIECES	LENGTH
1	28	24'-3 1/2"			
2	28	24'-5"			
3	140	18'-4 1/2"			
4	322	18'-3"			
5	882	24'-3"			
6	182	30'-3"			
7	43	25'-2 1/2"			

MATERIAL LIST					
1/2" TYPE B (WIDE RIB) ROOF DECK					
18 GA. 36" COVERAGE PAINTED GREY (CONTRACTOR VERIFY)					
MARK	NO. PIECES	LENGTH	MARK	NO. PIECES	LENGTH
A	4	24'-3 1/2"			
B	4	24'-5"			

MATERIAL LIST					
1/2" TYPE B (WIDE RIB) ROOF DECK					
20 GA. 36" COVERAGE PAINTED GREY (CONTRACTOR VERIFY)					
MARK	NO. PIECES	LENGTH	MARK	NO. PIECES	LENGTH
C	4	24'-3 1/2"			
D	4	24'-5"			

ROOF DECK LAYOUT



AS BUILT



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2	11-7-03	RELEASED FOR PERMIT CONSTRUCTION	STR
1	10-29-03	RELEASED FOR CONSTRUCTION	STR



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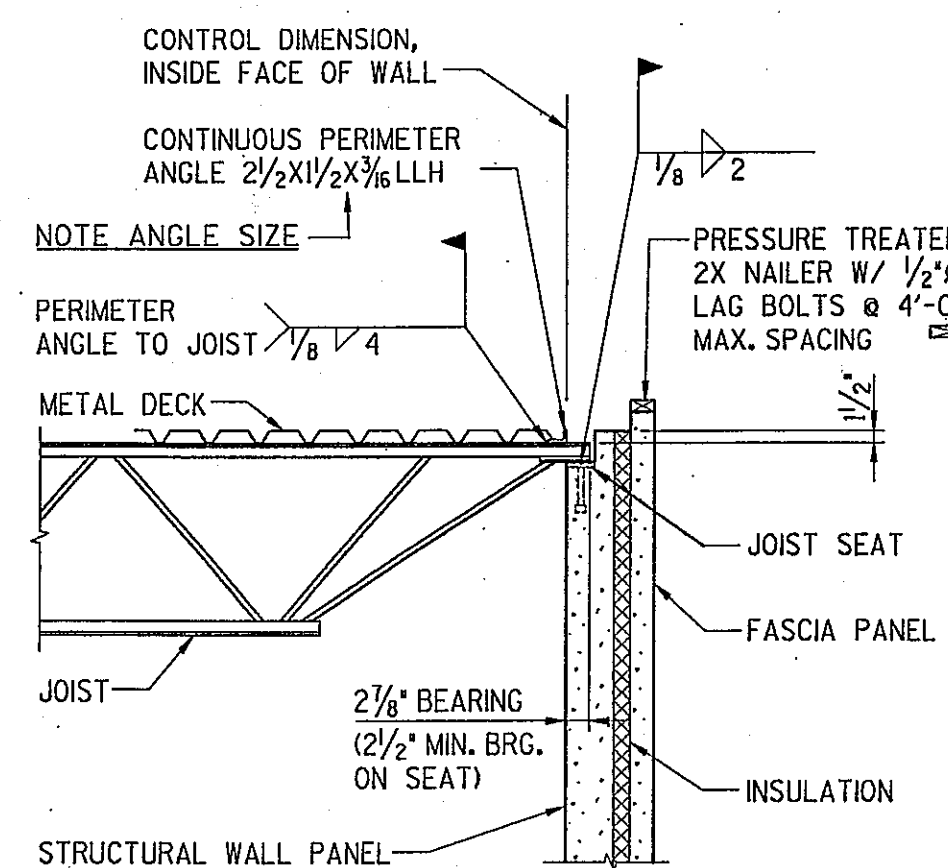


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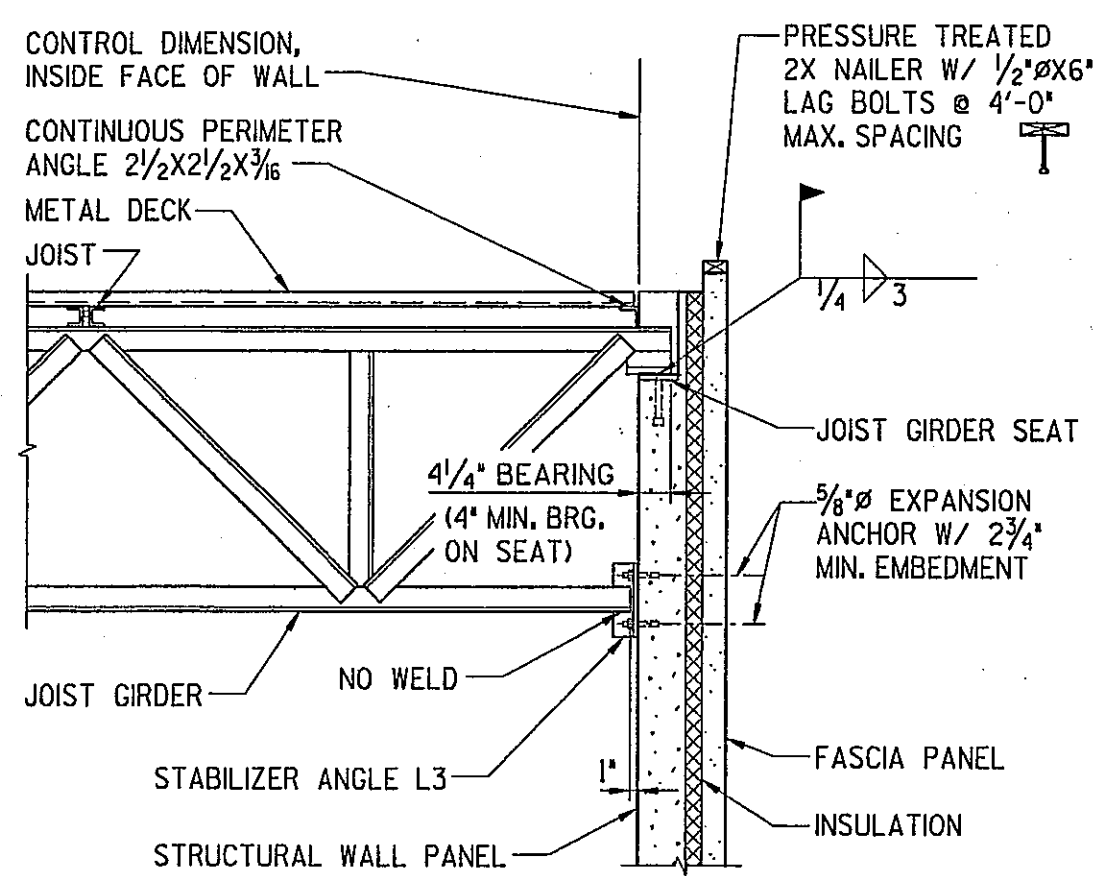


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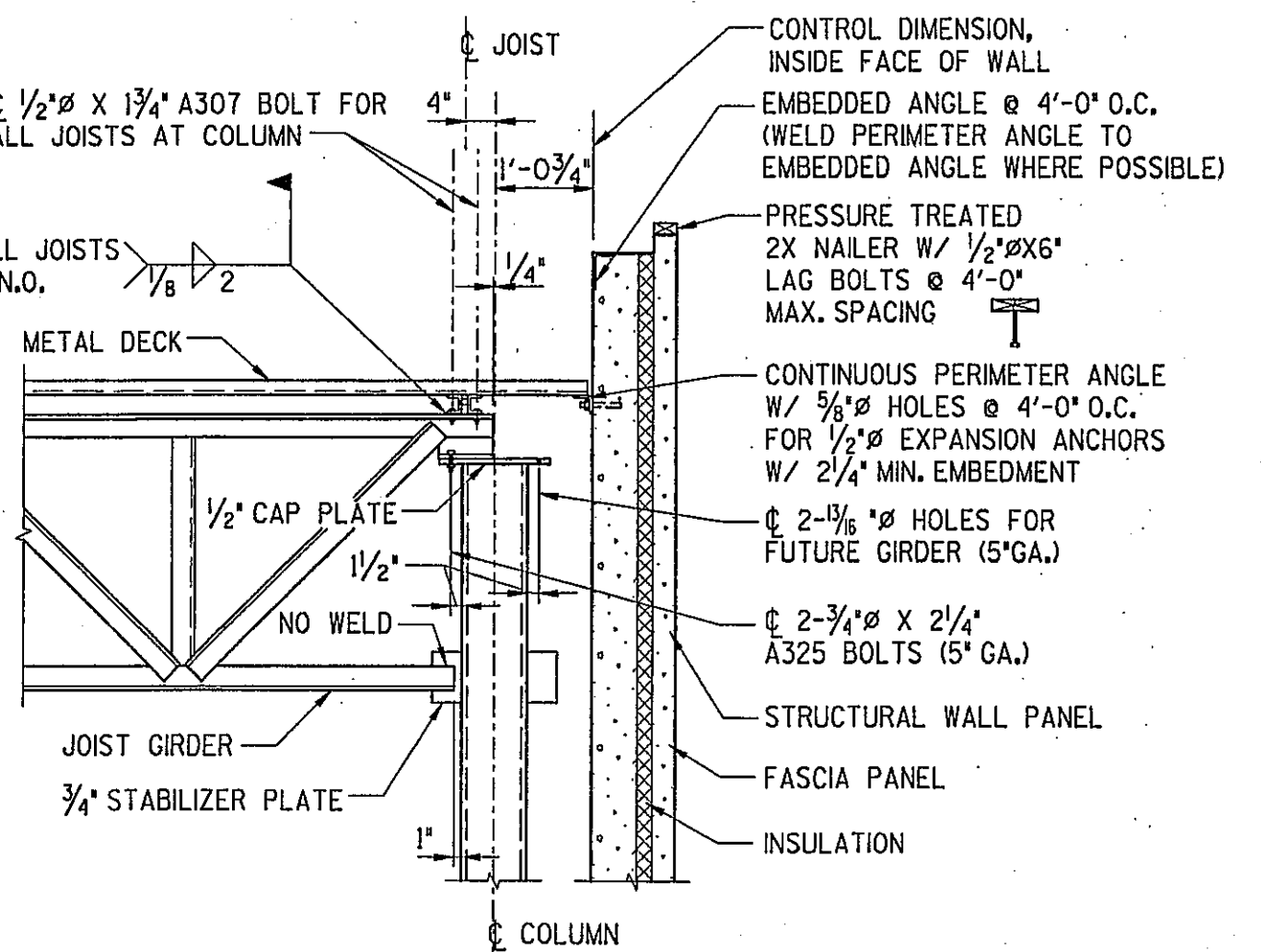
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DESIGNED	STR	JOB NO.
DRAWN	JCL	20442
CHECKED		SHEET NO.
DATE	OCT. 03	S-4C



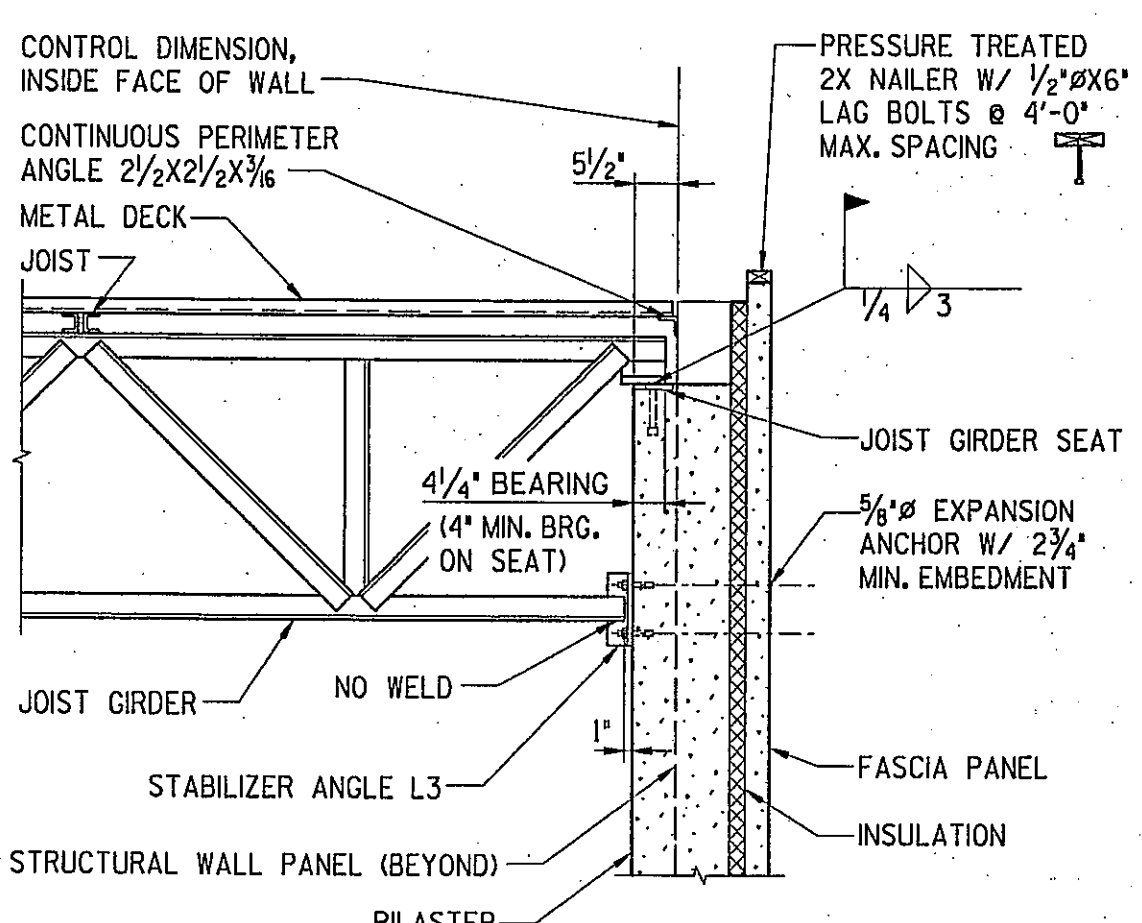
JOIST WALL BEARING SECTION S4
S-4



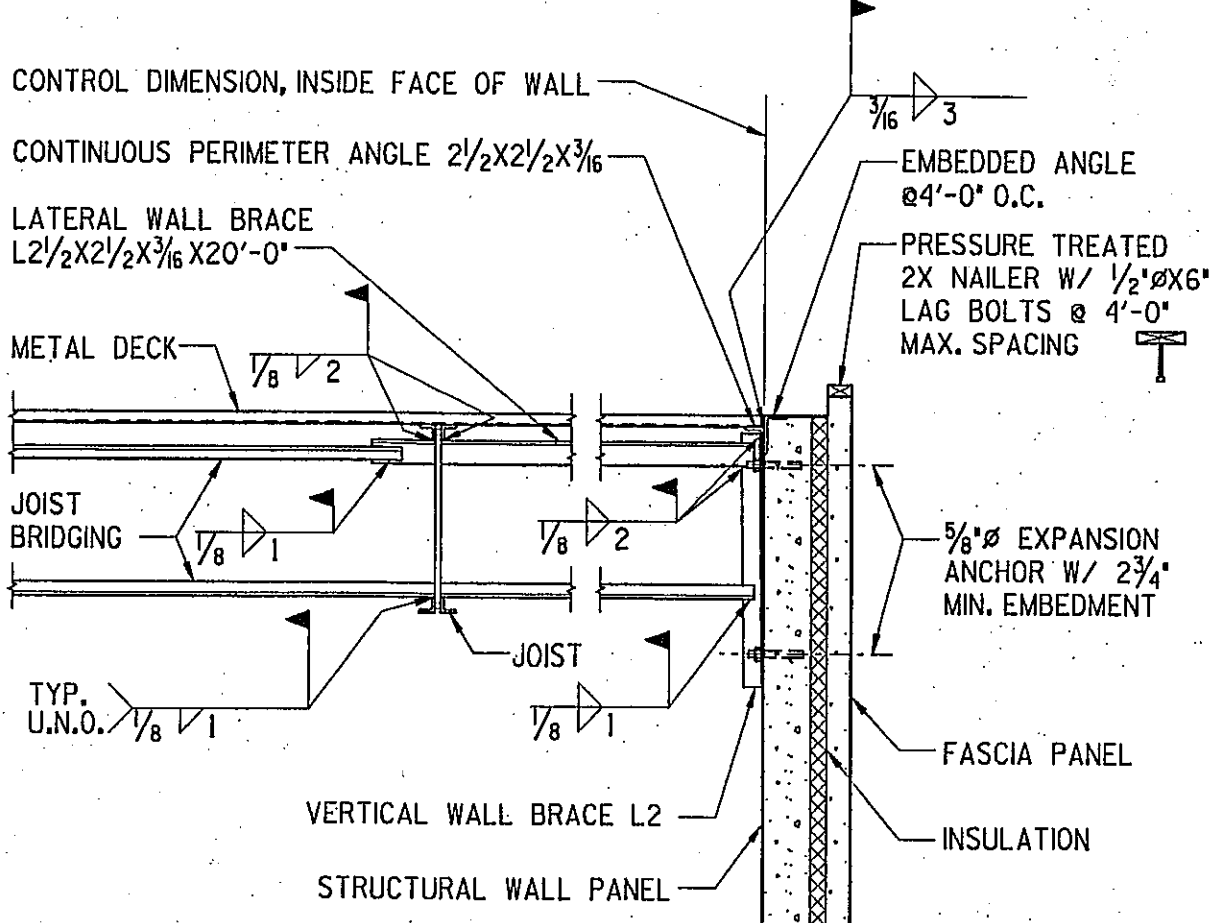
JOIST GIRDER WALL BEARING SECTION S24
S-4



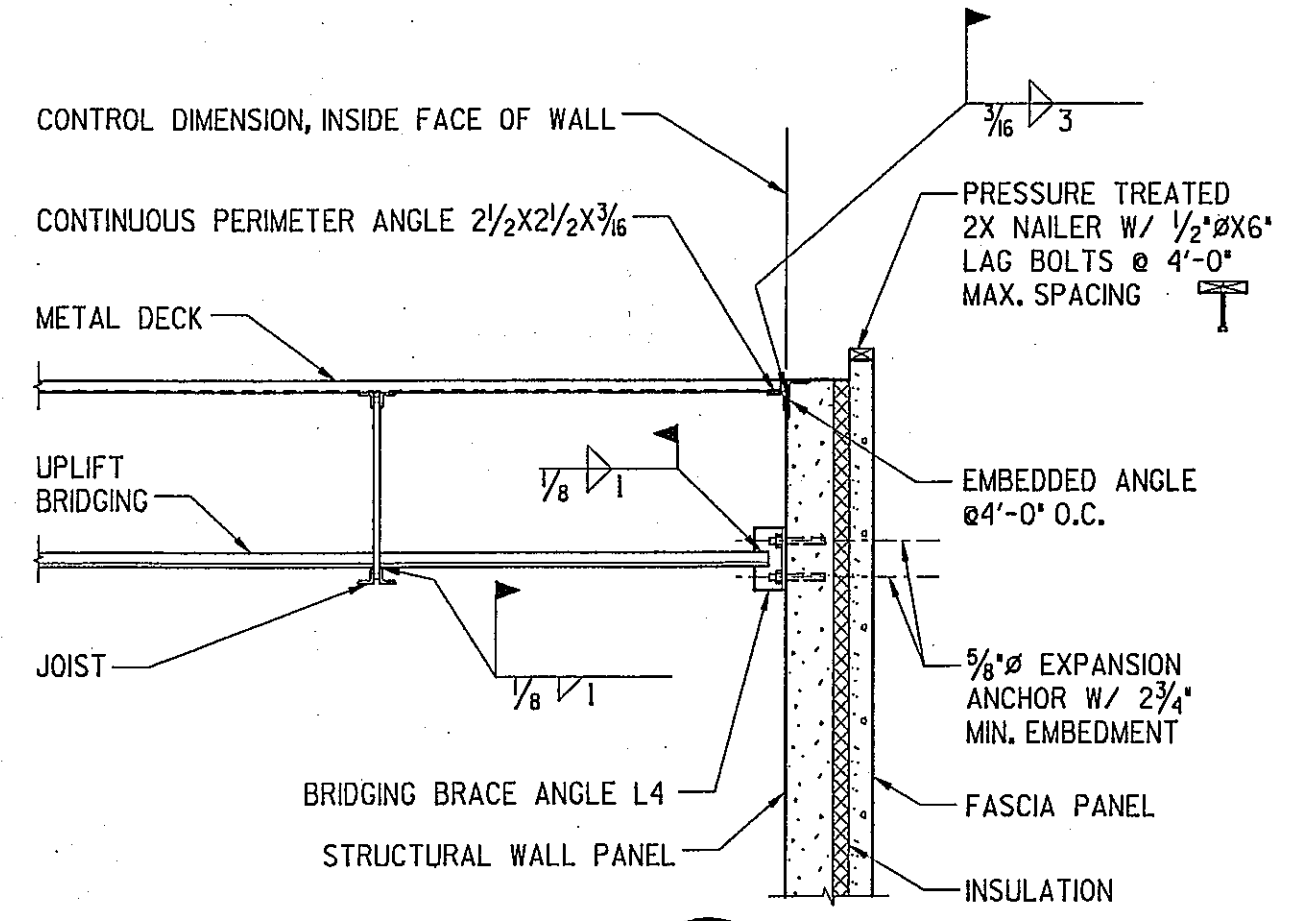
COLUMN-JOIST GIRDER-JOIST CONNECTION S25
S-4
NOTE: PROVIDE SLOTTED HOLES IN JOIST AND JOIST GIRDER SHOES AT COLUMN



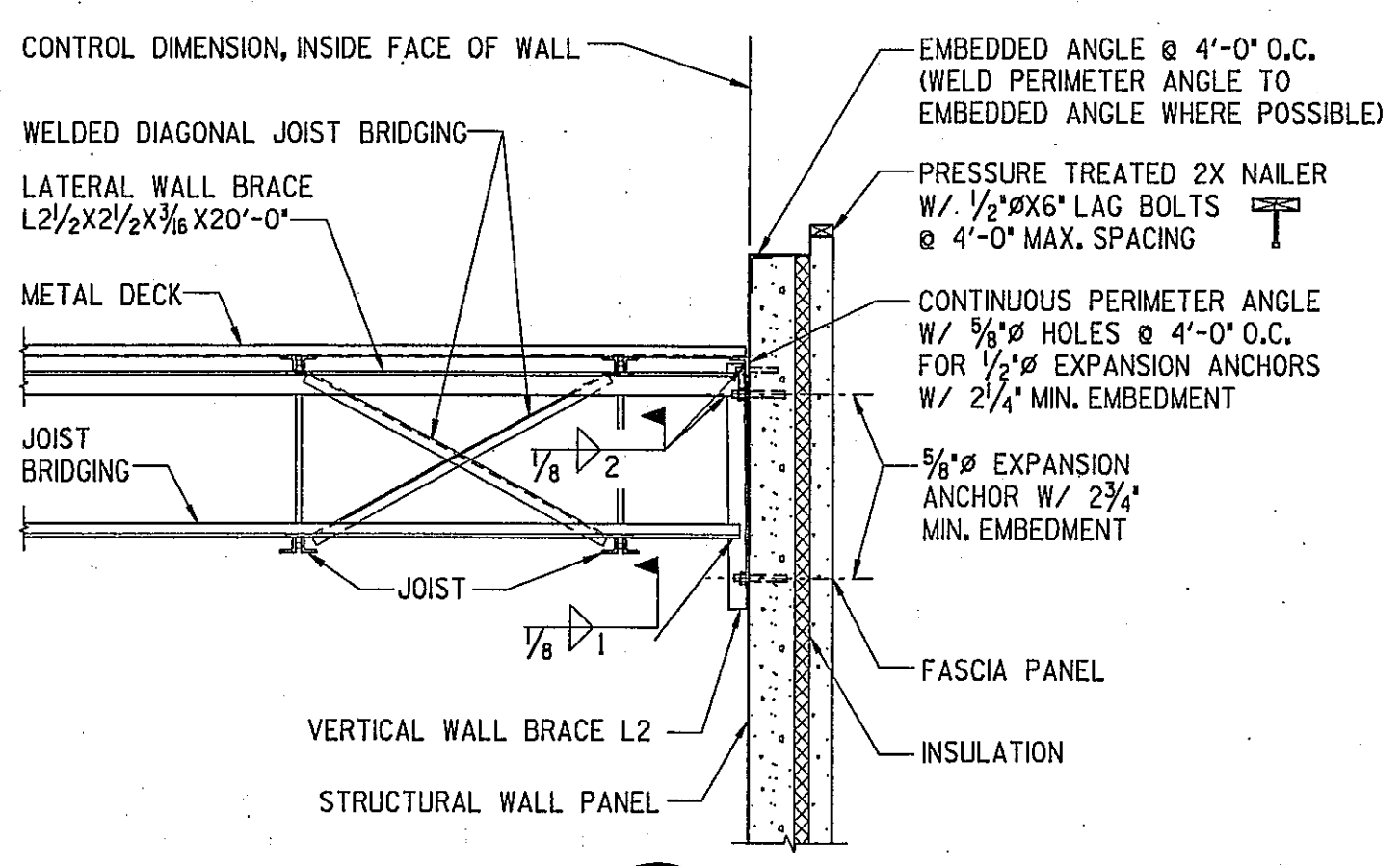
JOIST GIRDER WALL BEARING SECTION S26
S-4



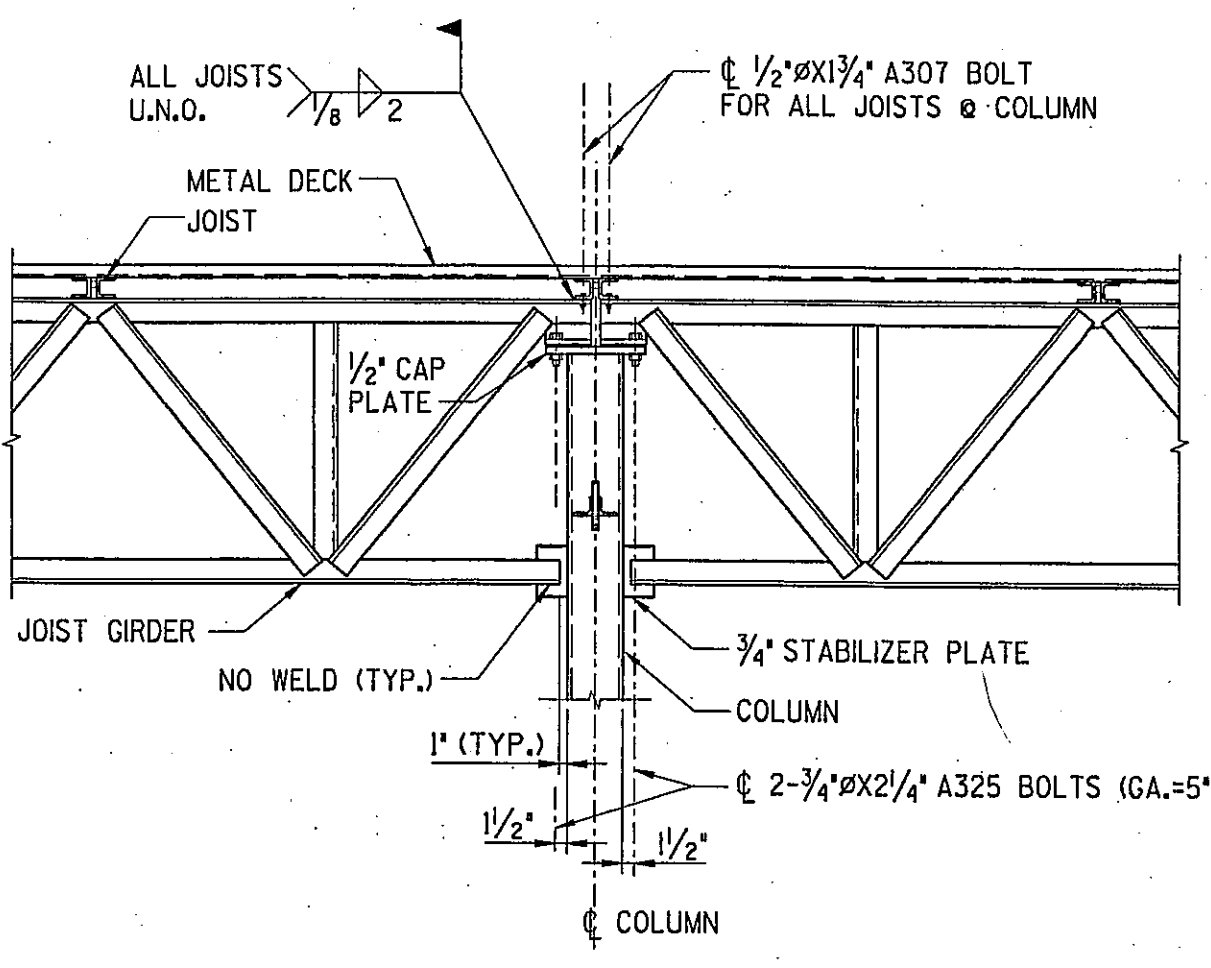
WALL BRACE SECTION S57
S-4



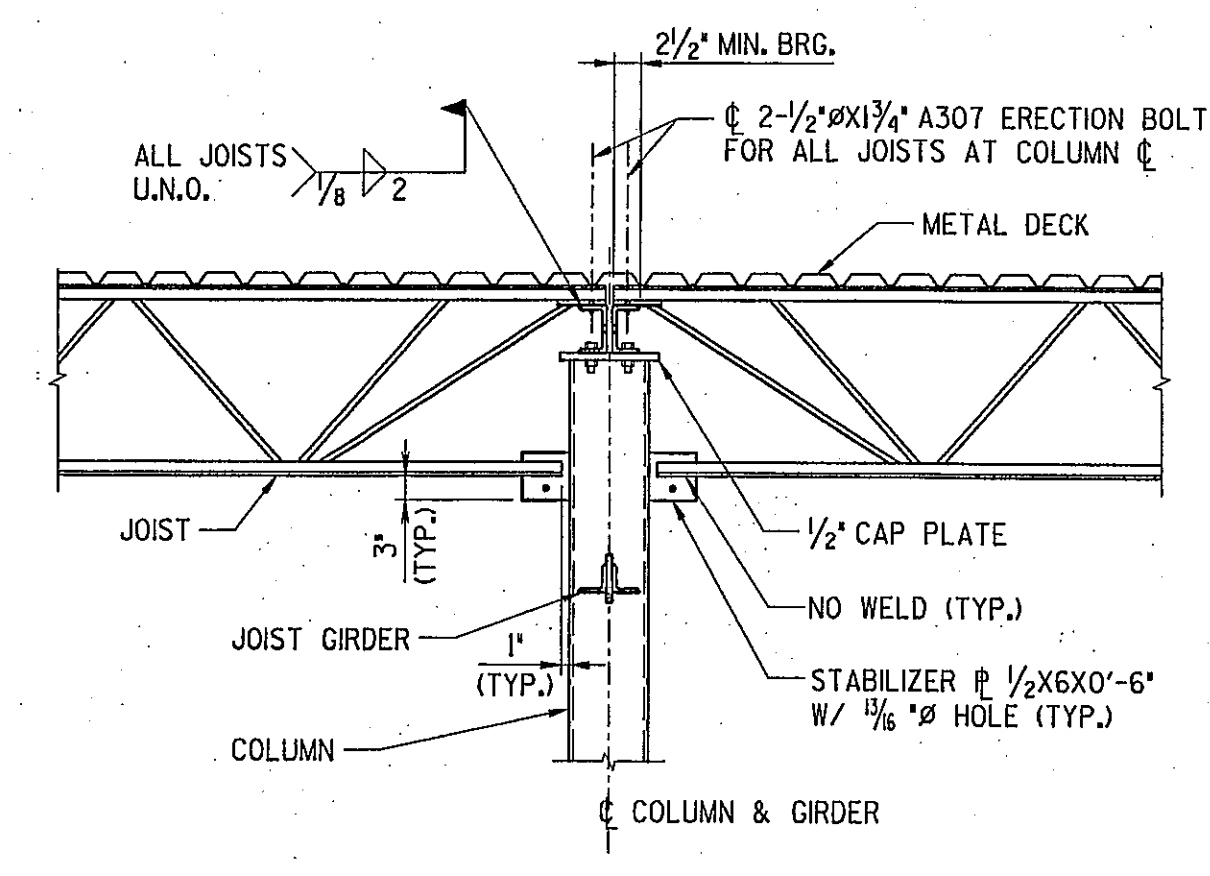
UPLIFT BRIDGING SECTION S59
S-4



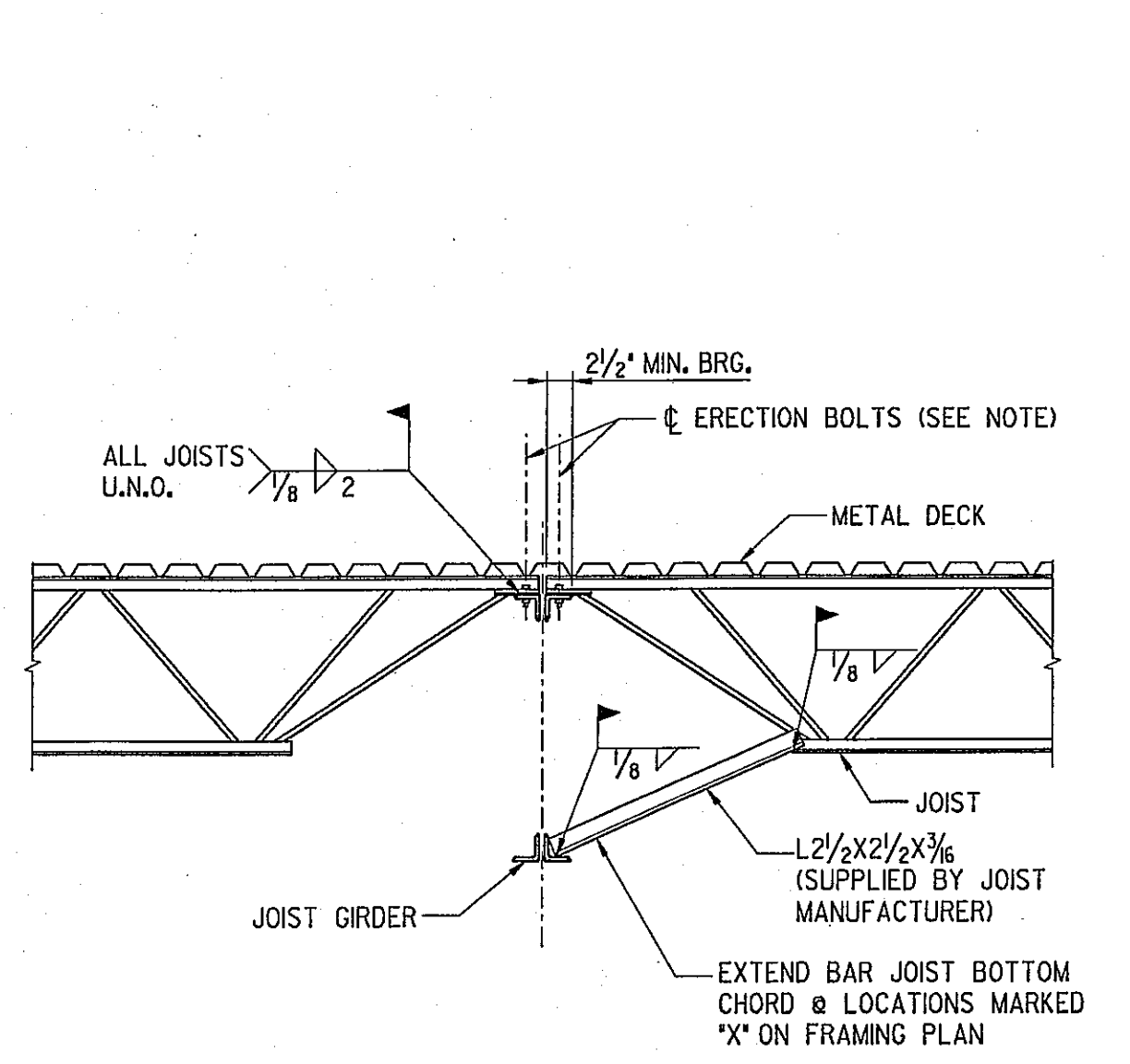
WALL BRACE SECTION S65
S-4



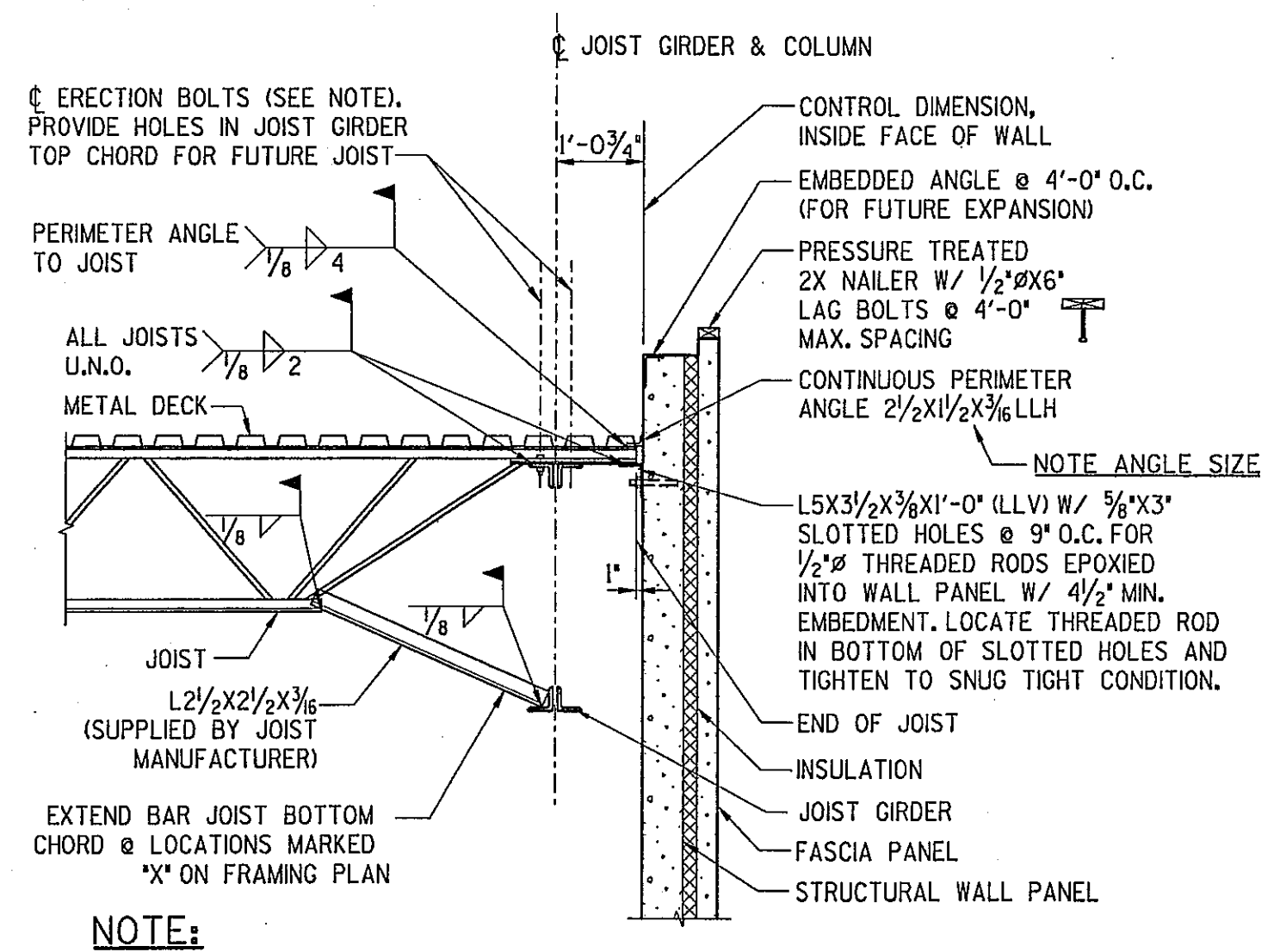
COLUMN-JOIST GIRDER-JOIST CONNECTION S72
S-4
NOTE: PROVIDE SLOTTED HOLES IN JOIST & JOIST GIRDER SHOES @ COLUMN



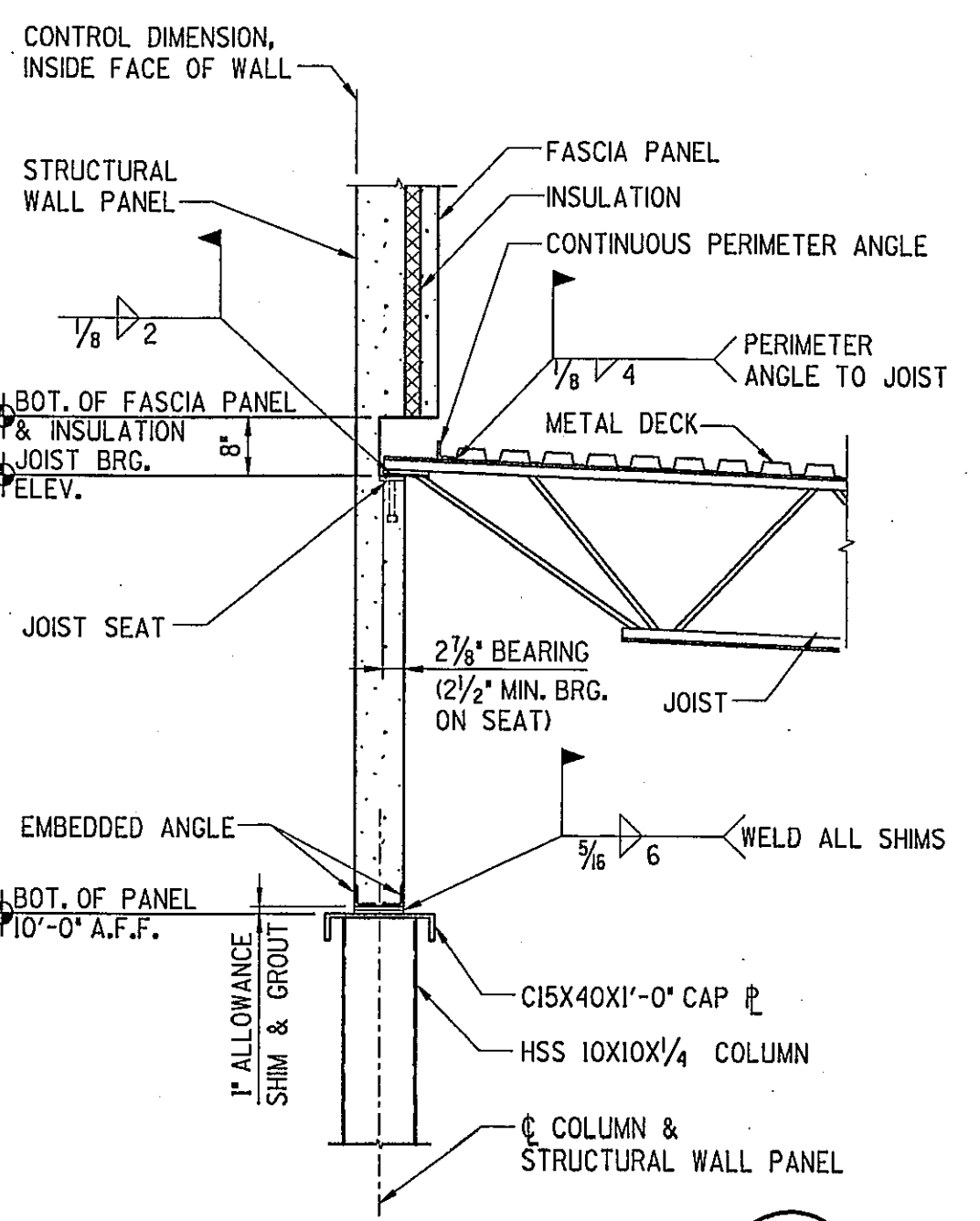
COLUMN-JOIST-JOIST GIRDER CONNECTION S82
S-4



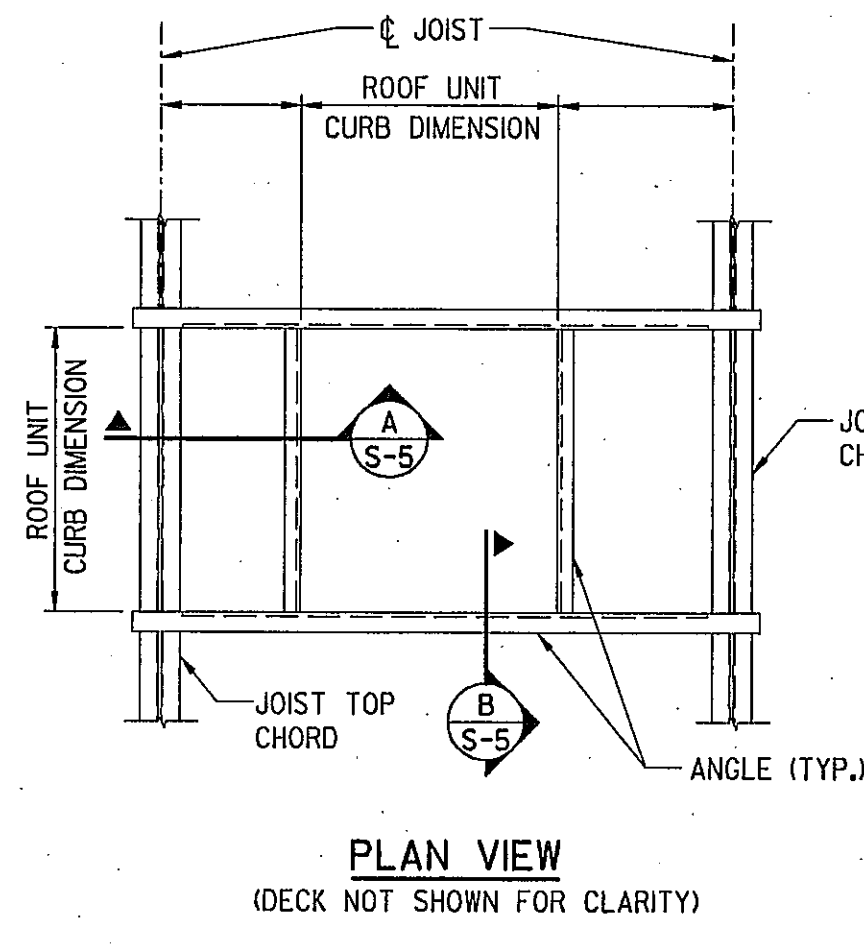
JOIST GIRDER-BOTTOM CHORD BRACE S83
S-4
NOTE: PROVIDE 1/2" x 1 1/2" A307 ERECTION BOLTS FOR ALL JOISTS IN BAYS 40 FEET OR MORE. GIRDER DESIGN SHALL ACCOUNT FOR BOLT HOLES ASSUMING BOLTS WILL NOT BE INSTALLED.



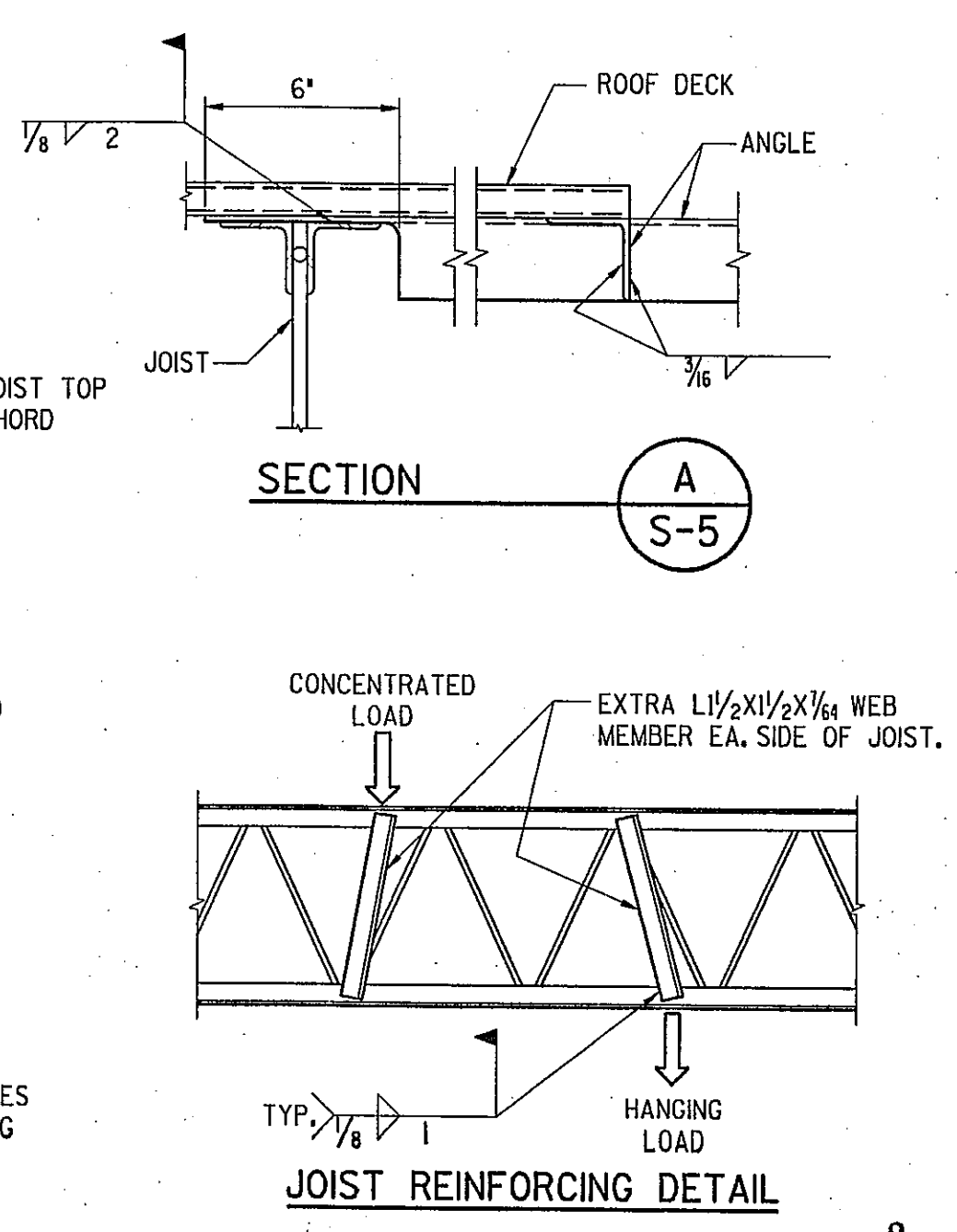
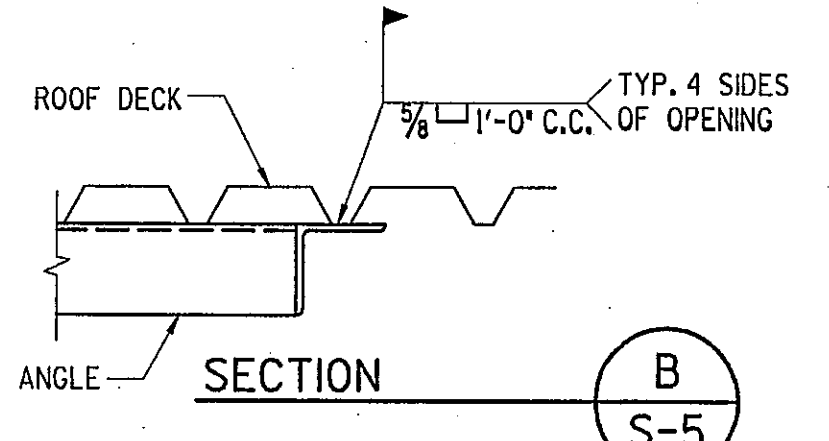
JOIST GIRDER-BOTTOM CHORD BRACE S87
S-4
NOTE: PROVIDE 1/2" x 1 1/2" A307 ERECTION BOLTS FOR ALL JOISTS IN BAYS 40 FEET OR MORE.



JOIST WALL BEARING SECTION S89
S-4



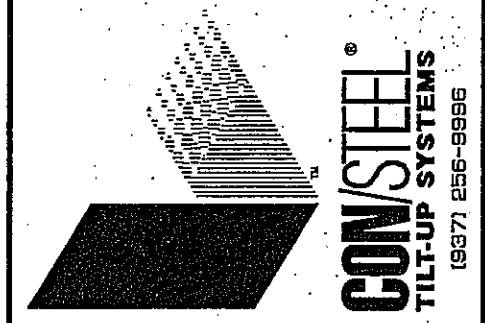
TYPICAL ROOF OPENING FRAMING



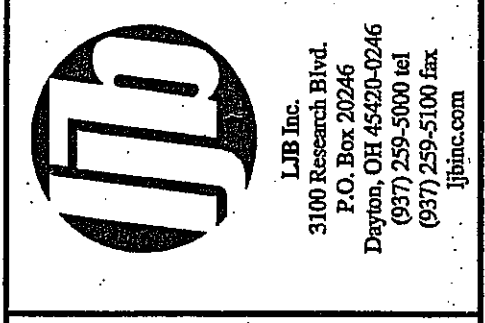
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NO.	DATE	DESCRIPTION	BY
4	11-7-03	RELEASED FOR PERMIT/CONSTRUCTION	STR
3	10-24-03	RELEASED FOR CONSTRUCTION	STR
2	7-16-03	REVISED BUILDING DIMENSIONS	STR
1	3-11-03	RELEASED FOR REVIEW	STR



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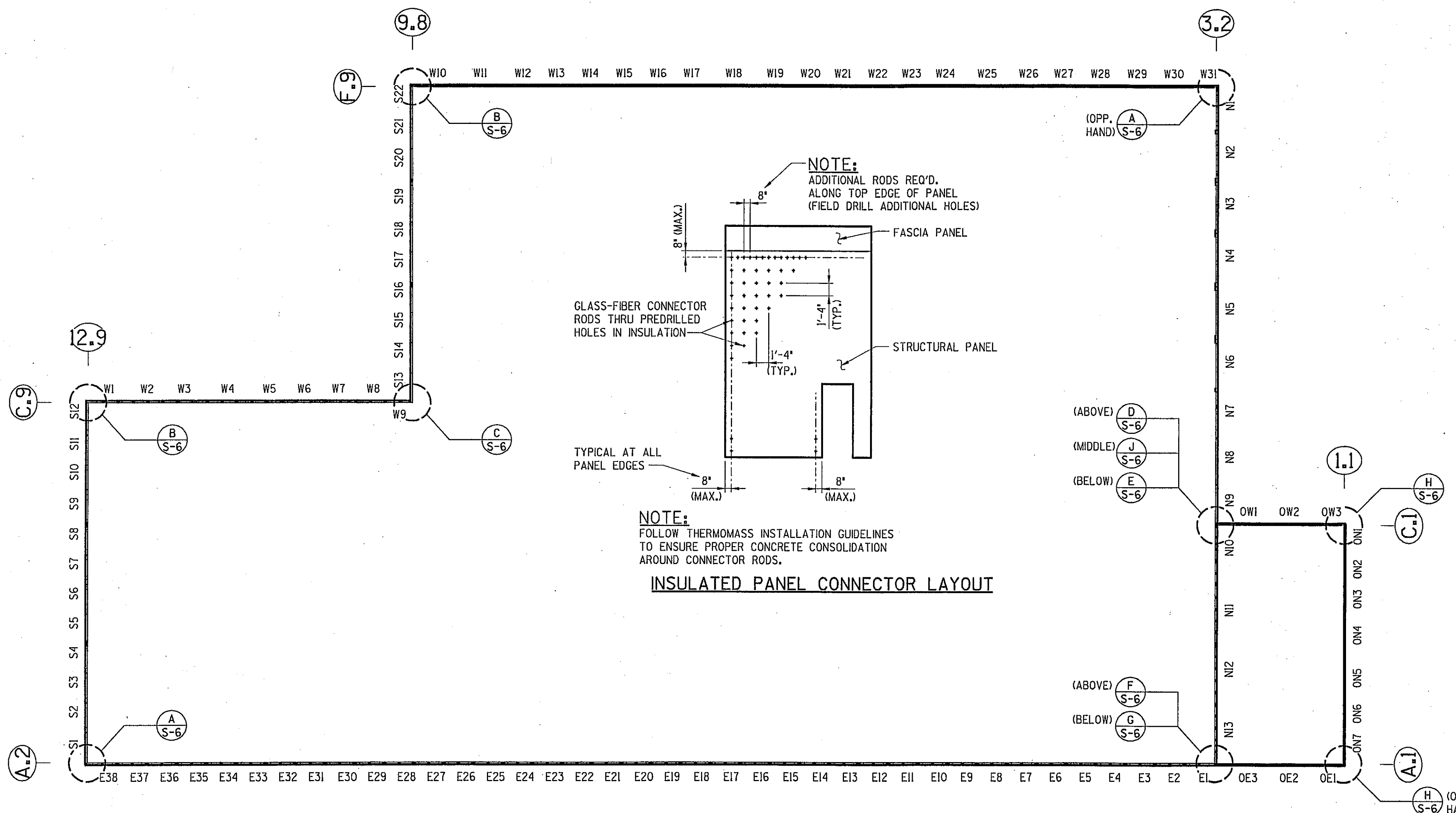


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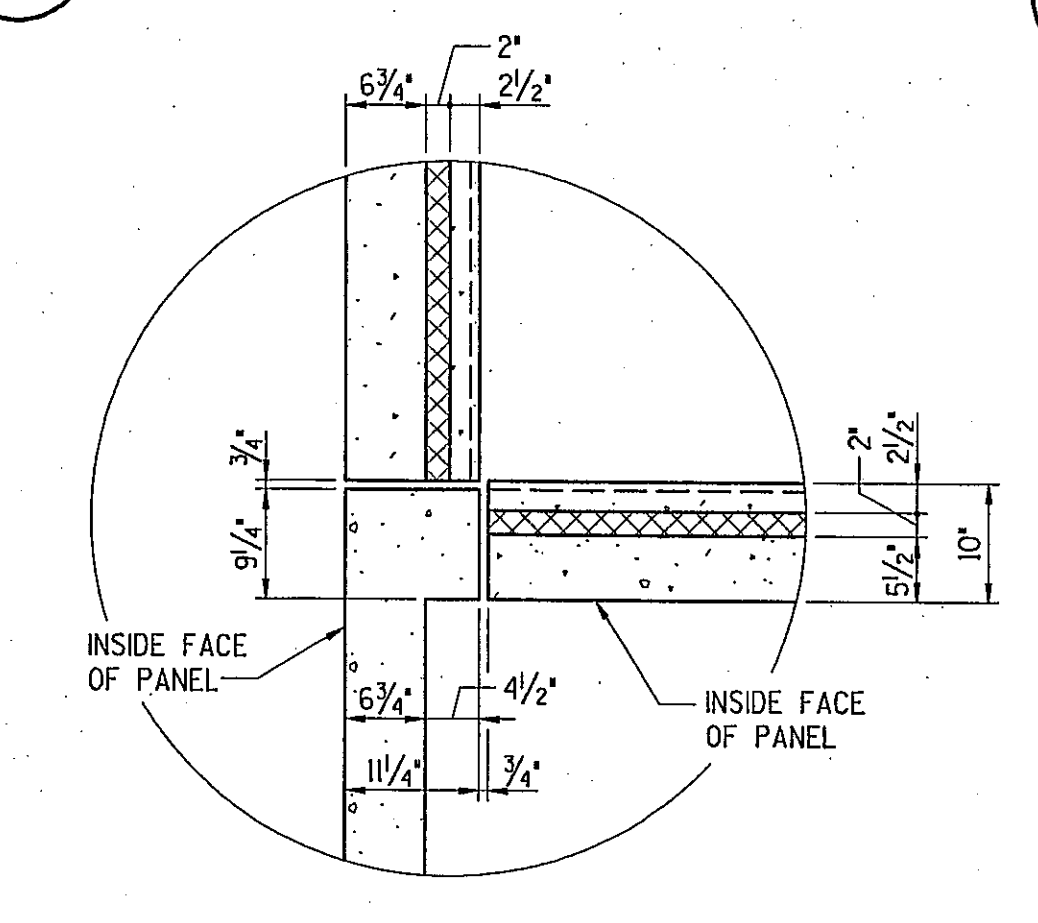
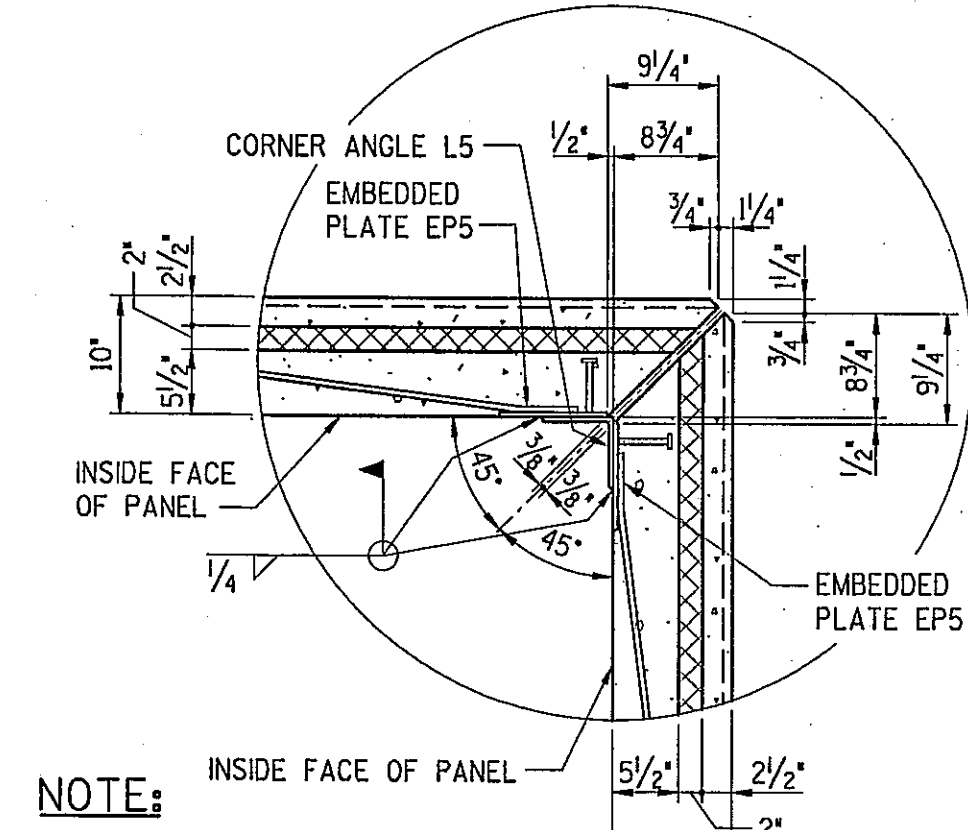
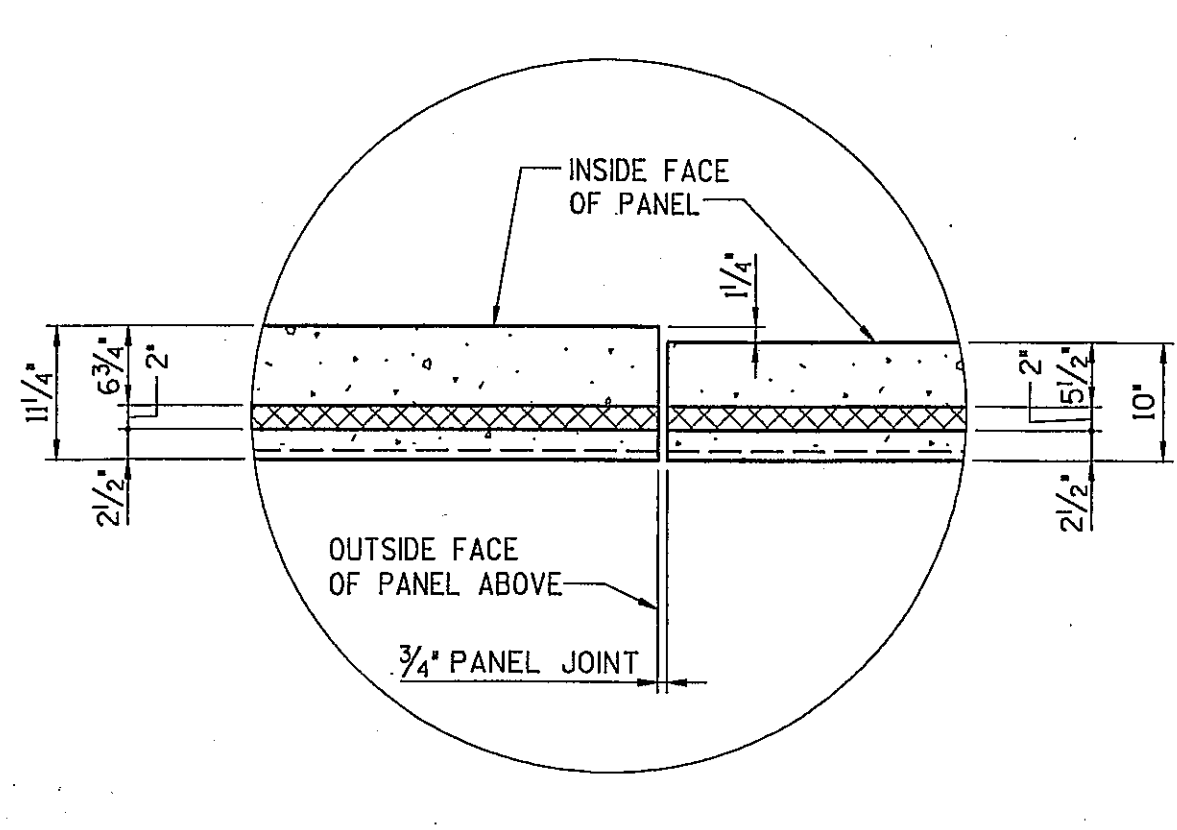
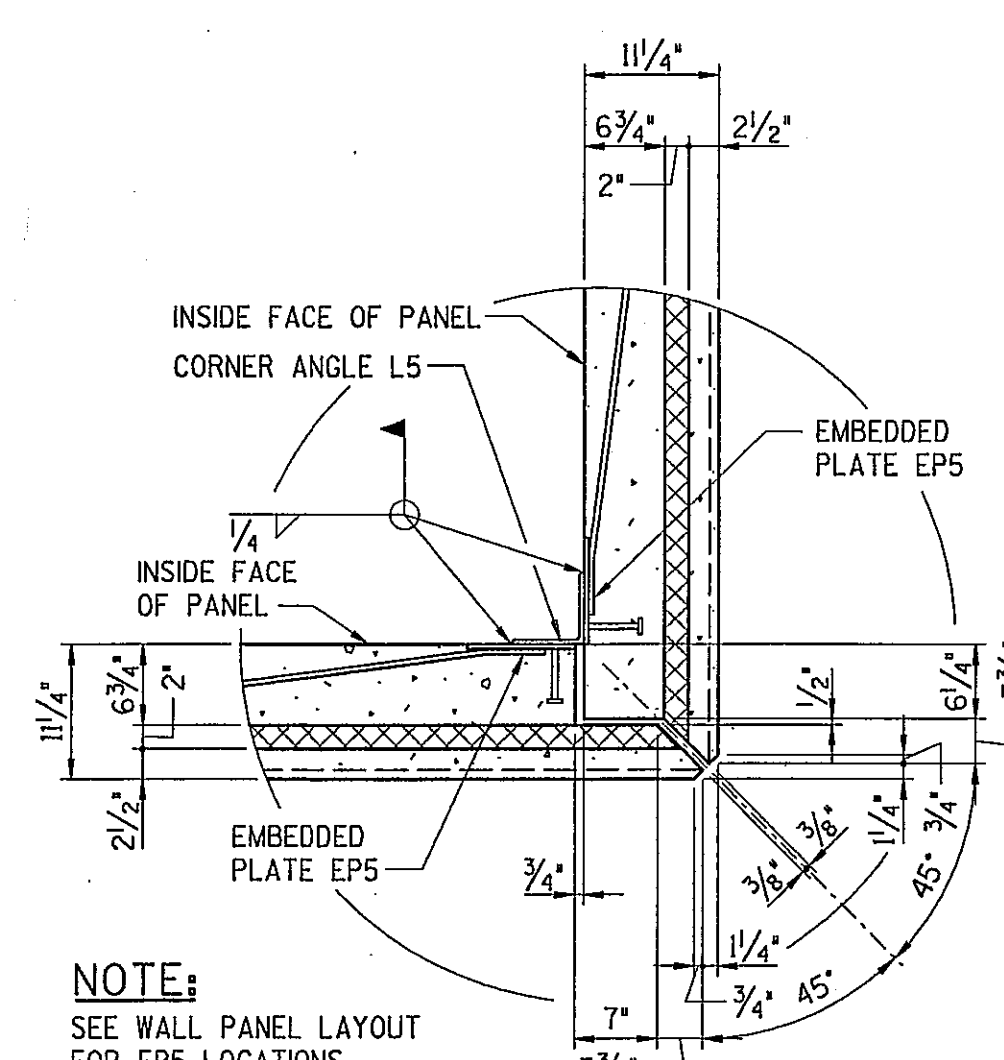
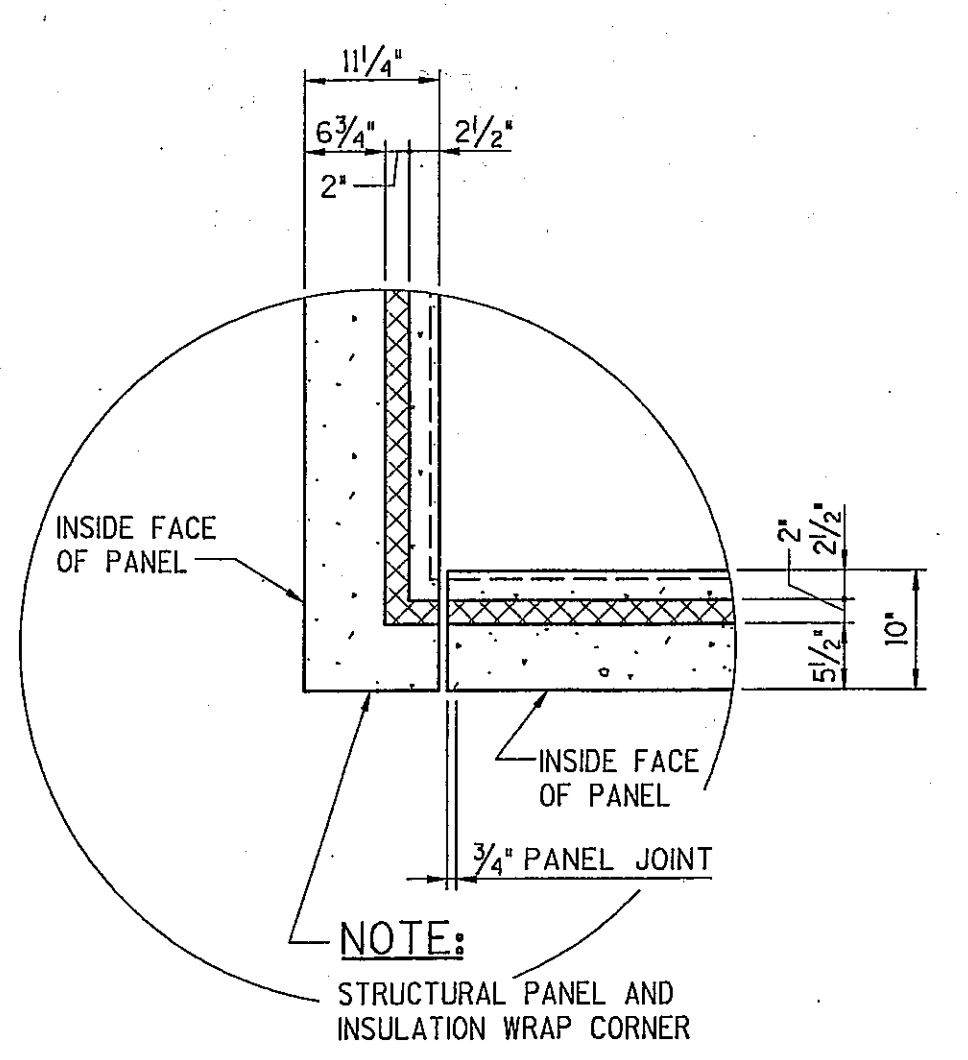
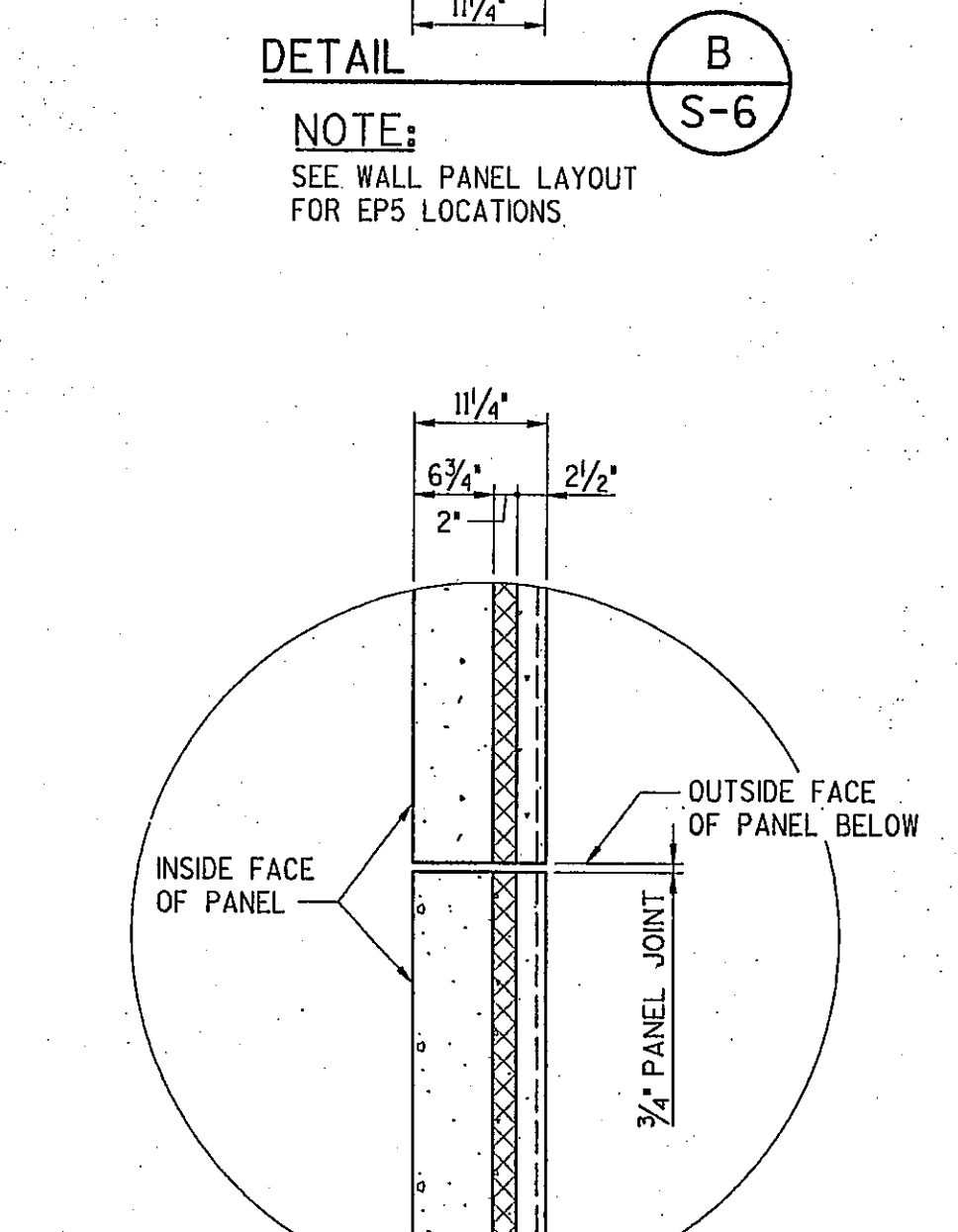
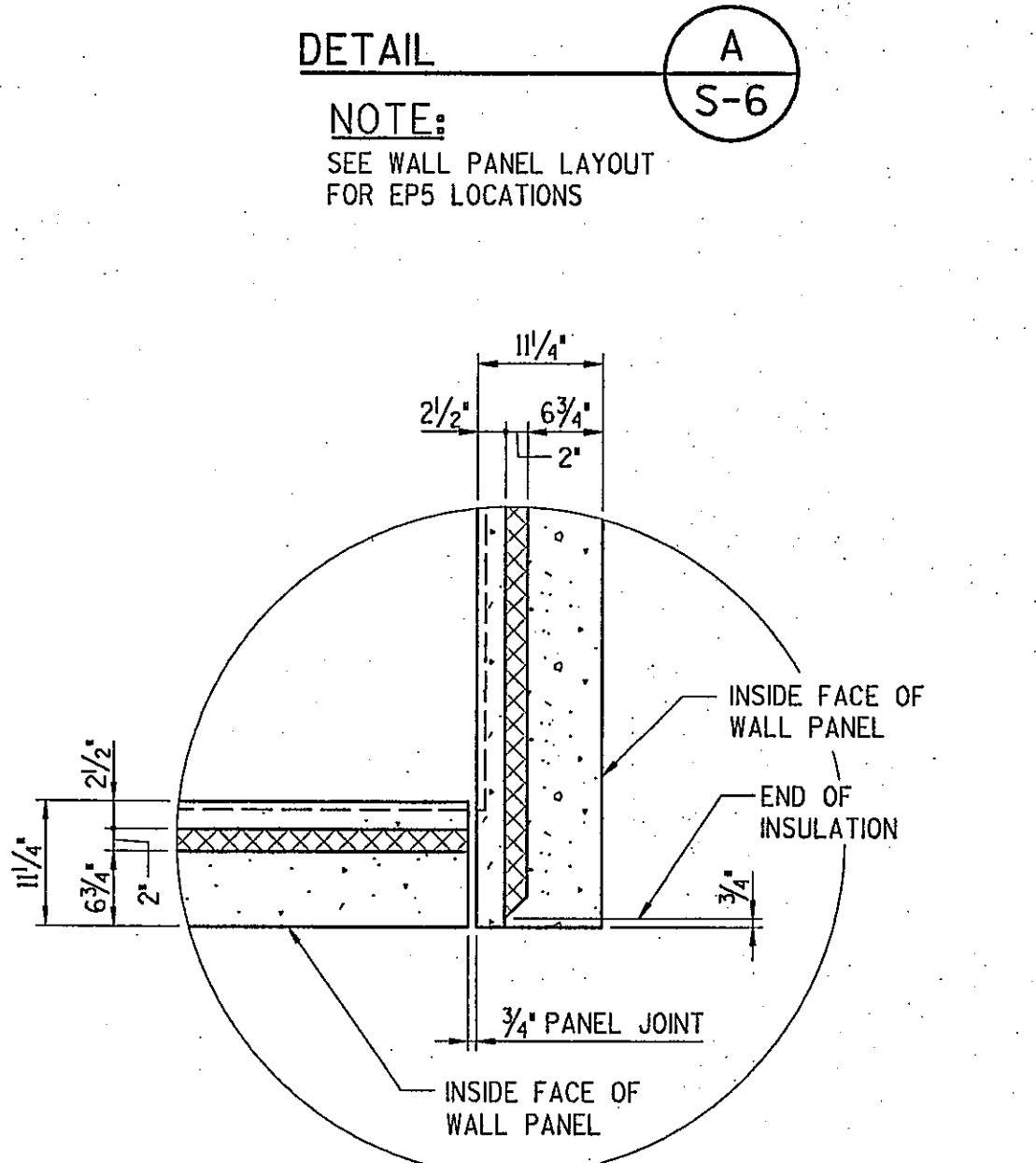
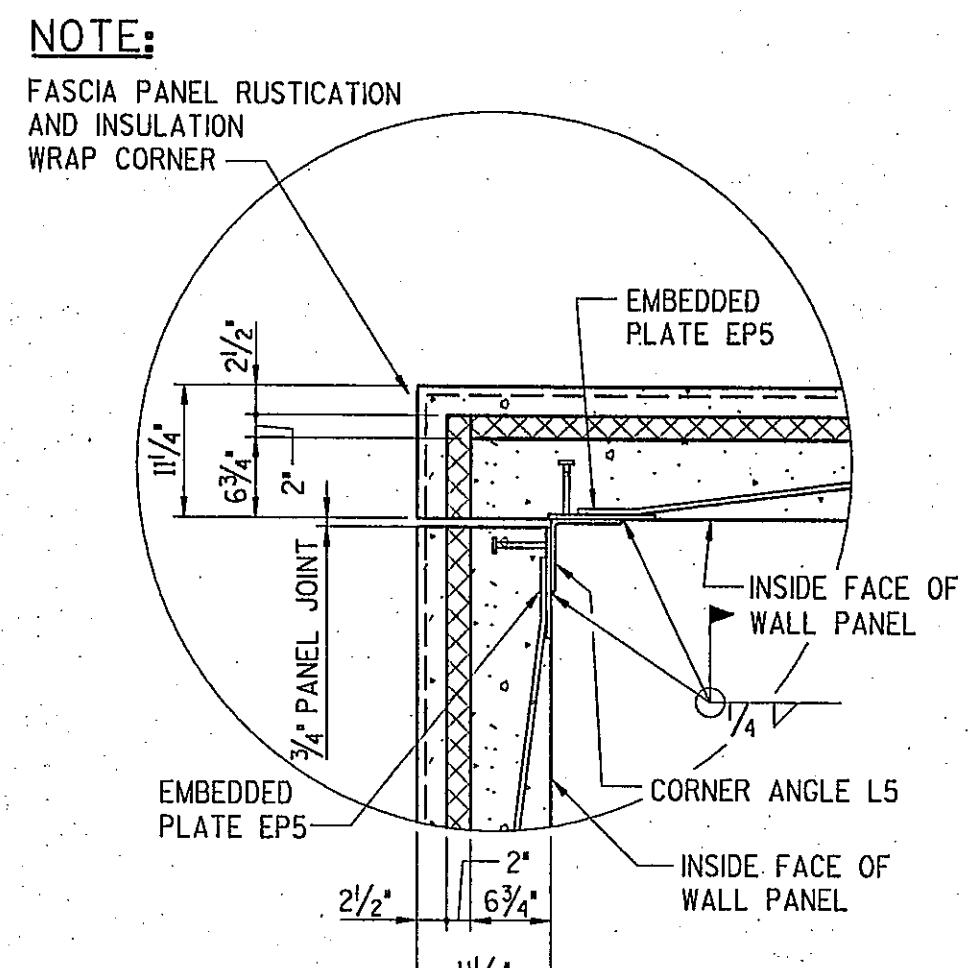
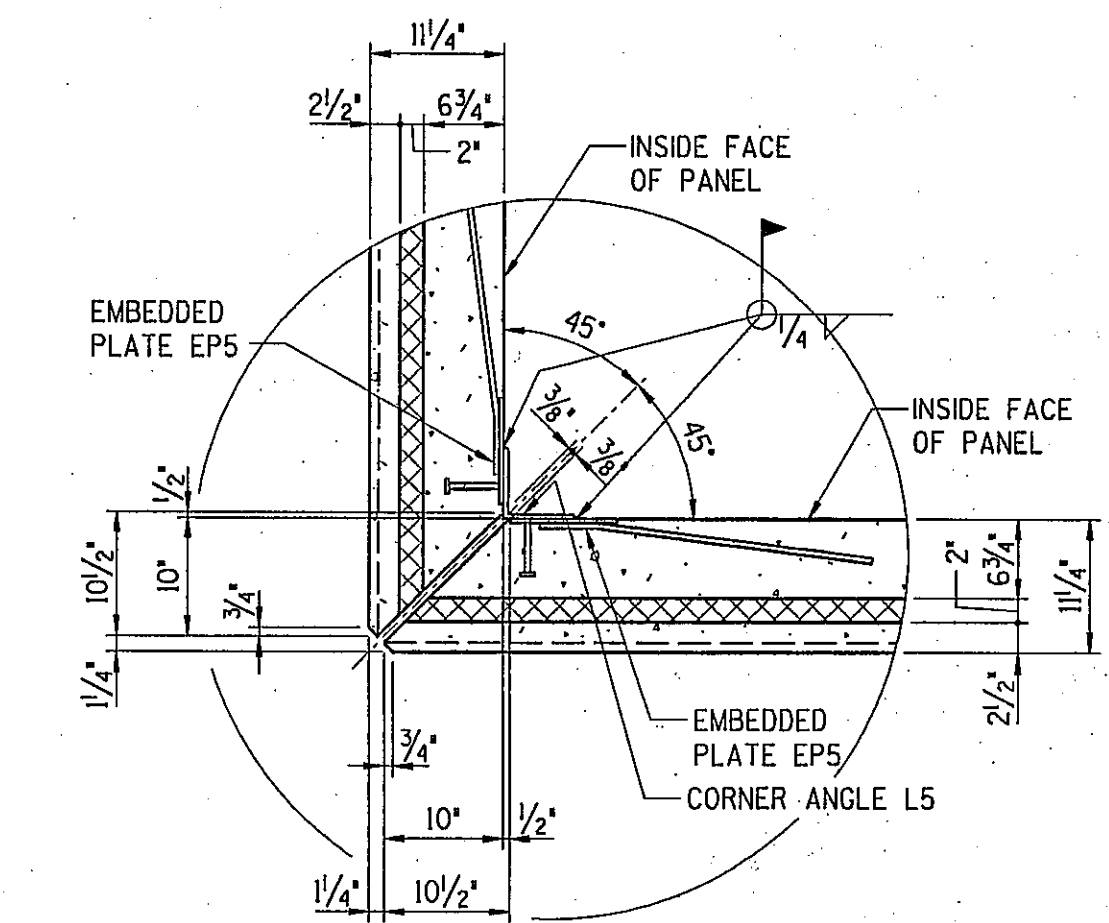
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SHEET TITLE		JOB NO.	
FRAMING DETAILS		20442	
DESIGNED	STR	CHECKED	STR
DRAWN	JJS	DATE	MAR. 03
SHEET NO.		S-5	

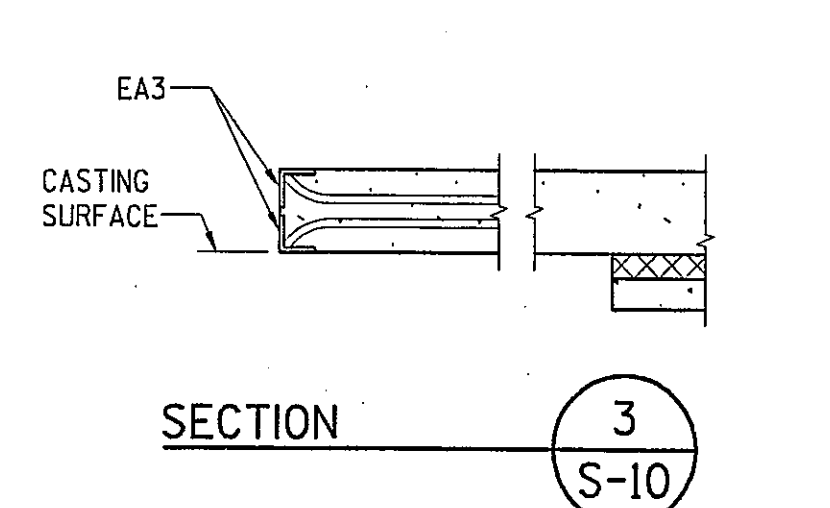
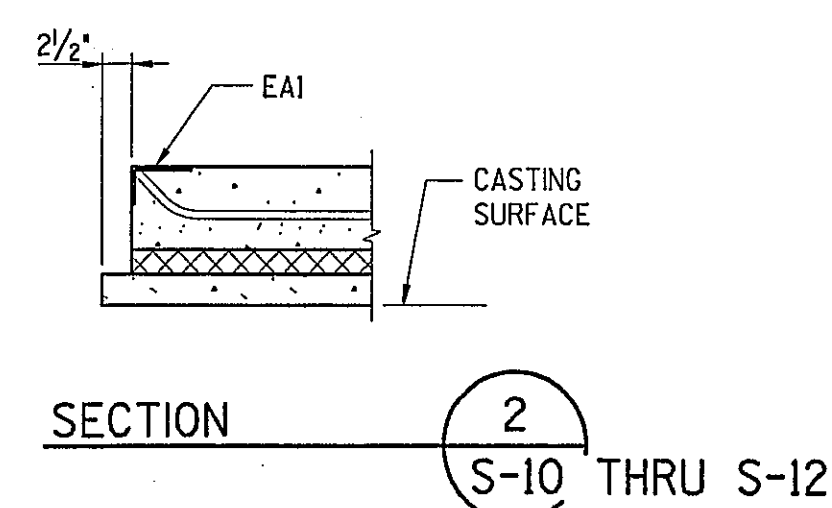
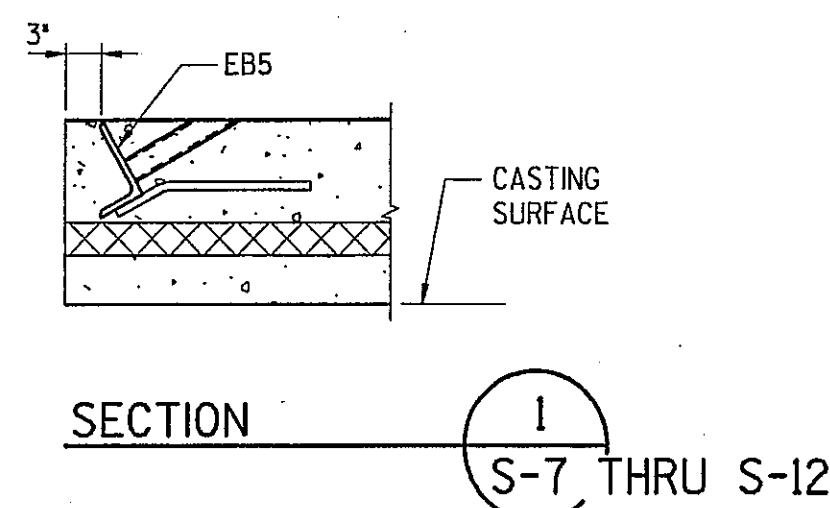
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WALL PANEL KEY PLAN



- PANEL LAYOUT NOTES**
- ALL PANELS SHOWN OUTSIDE FACE DOWN.
 - FOR REINFORCING STEEL PLACEMENT SEE PANEL REINFORCING SHEET(S).
 - FOR PANEL LIFTING INSERT LOCATIONS SEE LIFTING INSERT SHEET(S).
 - CHLORIDE BASED ADMIXTURES ARE PROHIBITED IN CONCRETE USED FOR WALL PANELS.
 - TEMPORARY BRACING SHALL BE PROVIDED FOR WALL PANELS IN THE ERECTED POSITION. INSTALLATION OF WALL BRACES SHALL MEET ALL REQUIREMENTS OF THE BRACE SUPPLIER.
 - 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.



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1	10-31-03	RELEASED FOR REVIEW	STR
2	11-7-03	RELEASED FOR PERMIT CONSTRUCTION	STR

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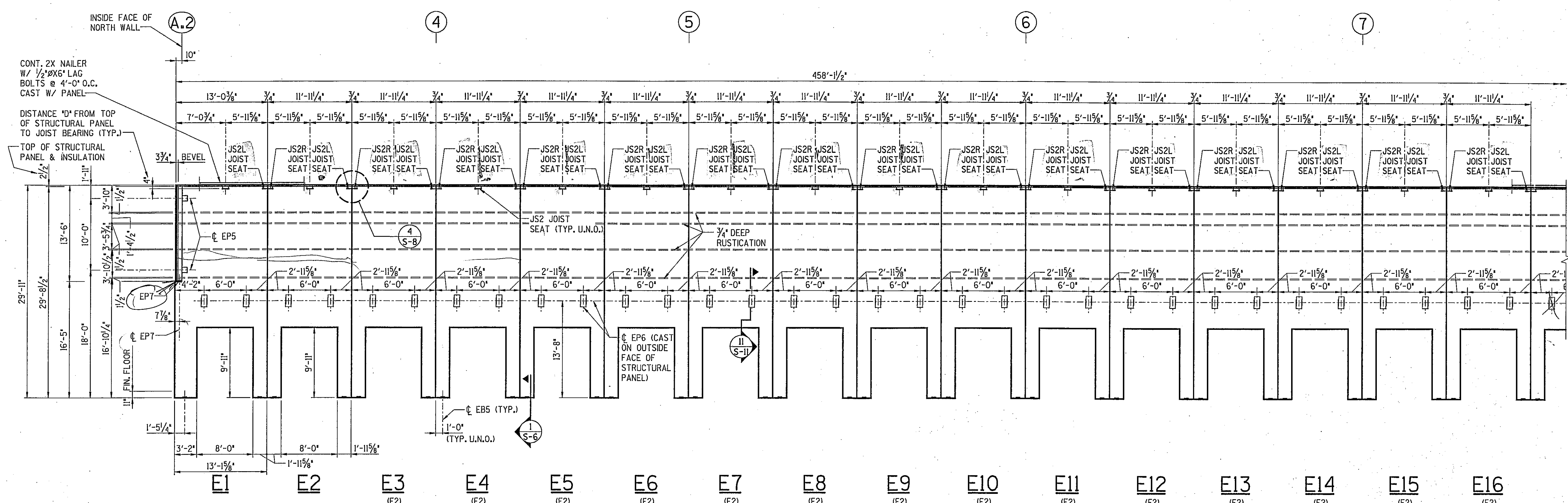
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4665 DOWELL DR. PHONE (608) 245-0112 FAX (608) 245-0116

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(937) 259-5100 fax
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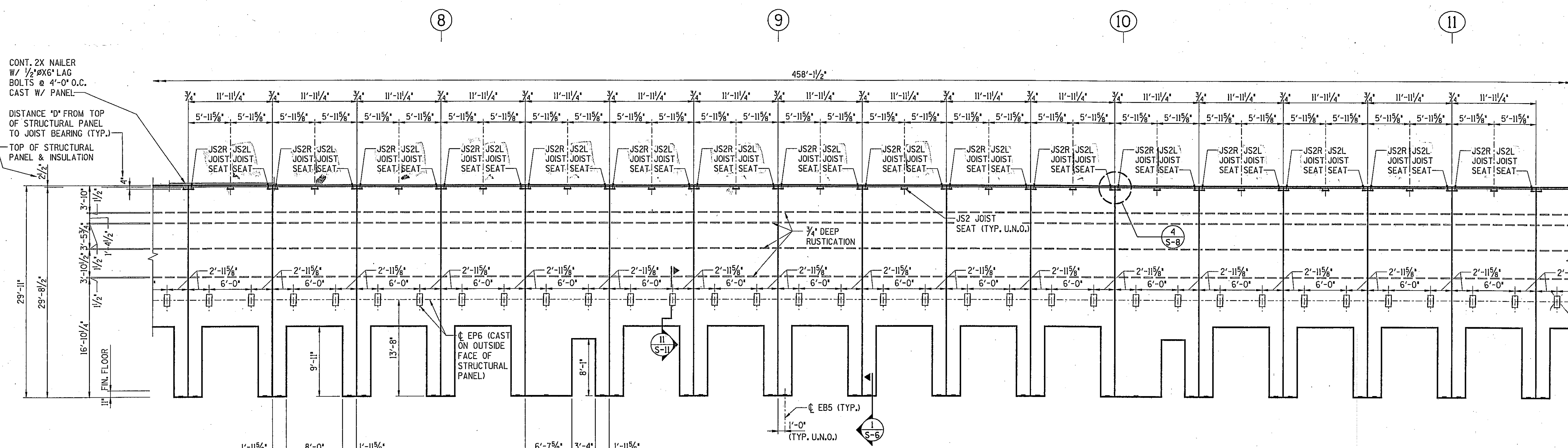
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SHEET TITLE: **KEY PLAN & DETAILS**

DESIGNED	STR	JOB NO.	
DRAWN	JJS		20442
CHECKED		SHEET NO.	
DATE	OCT. 03		S-6



EAST WALL
 6 3/4" THICK STRUCTURAL PANEL
 2" THICK INSULATION
 2 1/2" THICK FASCIA PANEL
 3/4" DEEP RUSTICATION

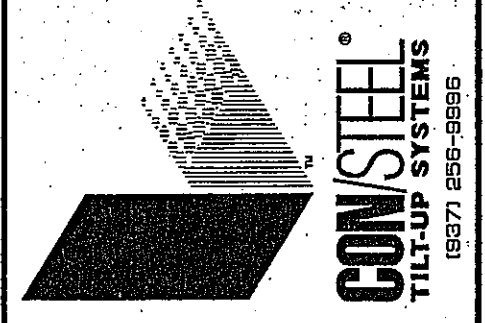


EAST WALL
 6 3/4" THICK STRUCTURAL PANEL
 2" THICK INSULATION
 2 1/2" THICK FASCIA PANEL
 3/4" DEEP RUSTICATION

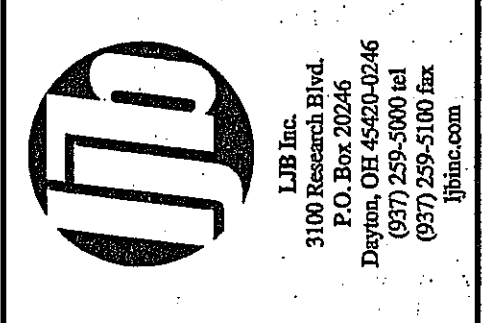
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NO.	DATE	DESCRIPTION	REVISIONS
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2	10-31-03	RELEASED FOR REVIEW	STR
1	10-28-03	RELEASED FOR REVIEW	STR



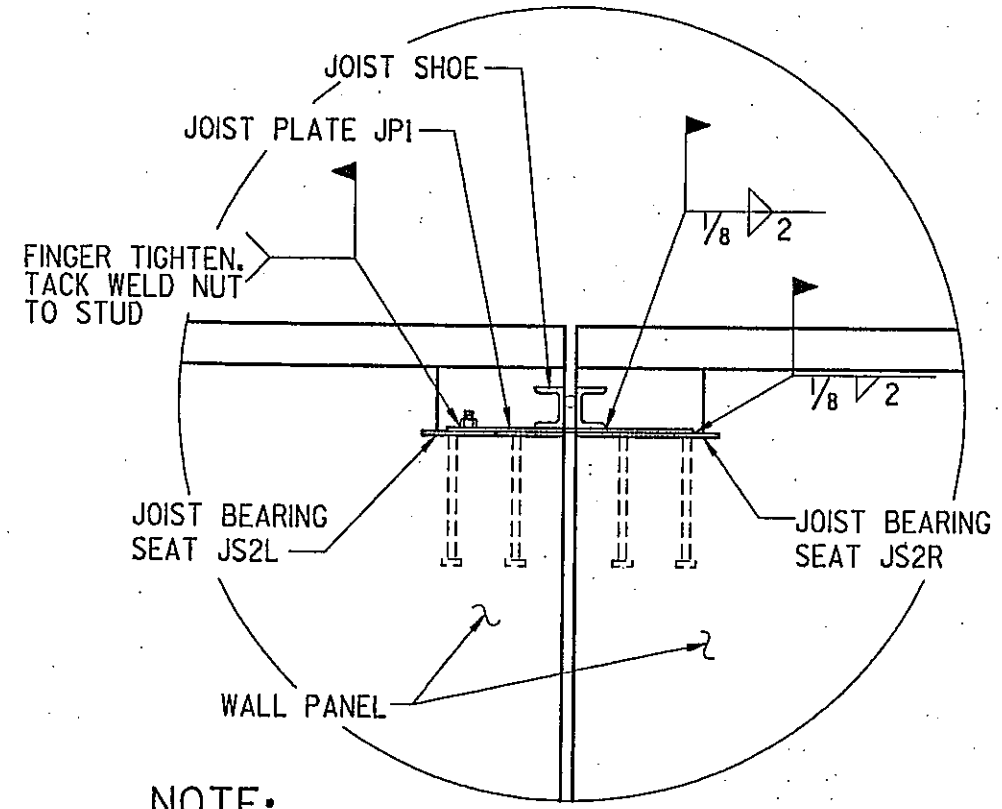
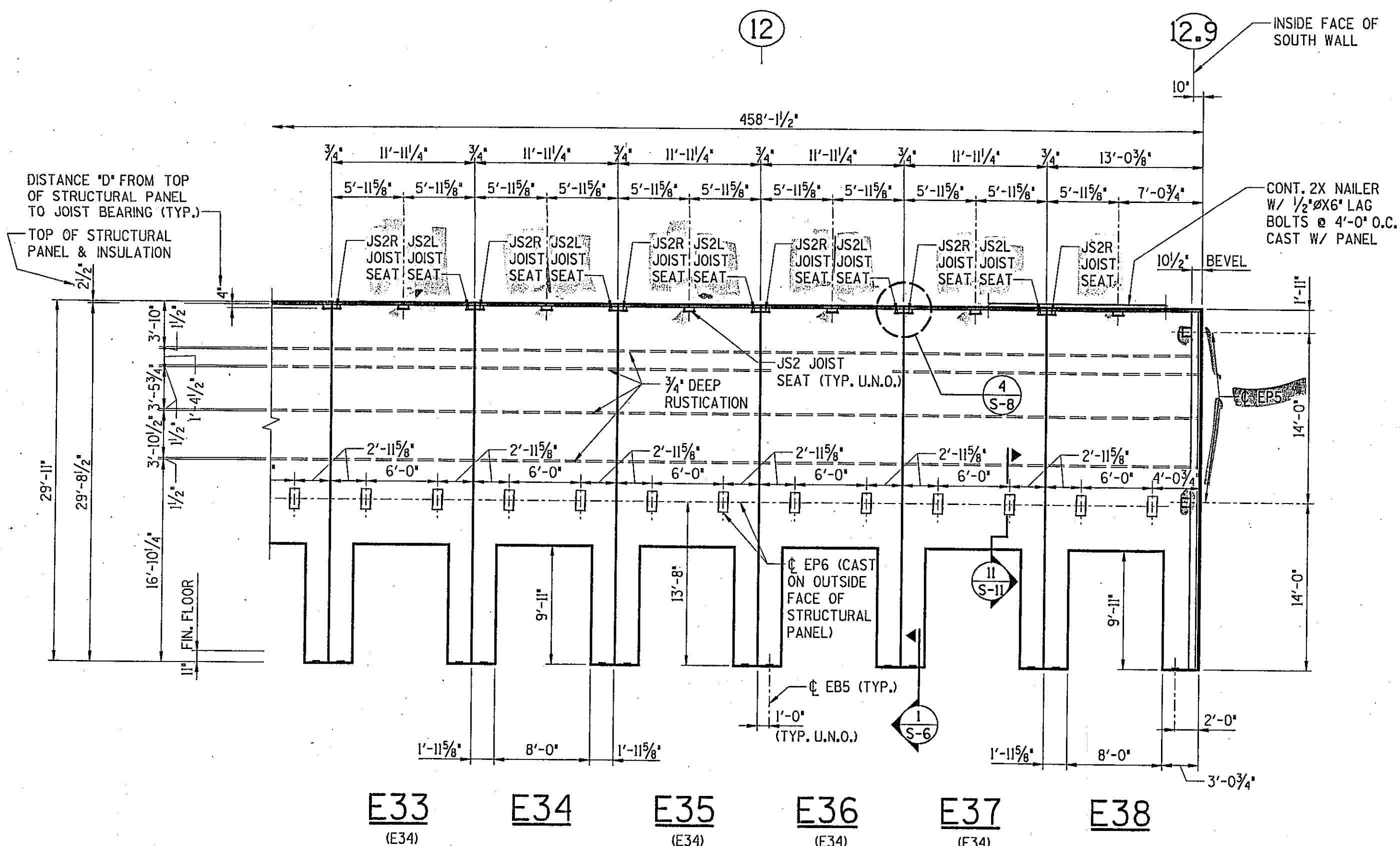
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SHEET TITLE WALL PANEL LAYOUT	
DESIGNED STR	JOB NO. 20442
DRAWN JUS	SHEET NO. S-7
CHECKED	DATE OCT. 03

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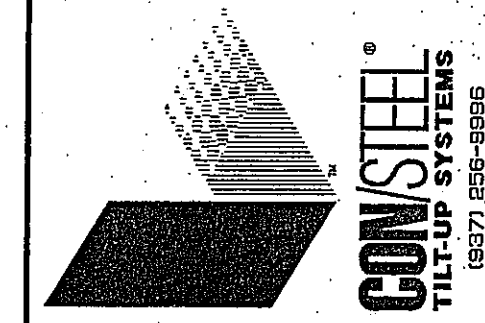
DETAIL 4
S-7,8,9,12

EAST WALL
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2" THICK INSULATION
2 1/2" THICK FASCIA PANEL
3/4" DEEP RUSTICATION

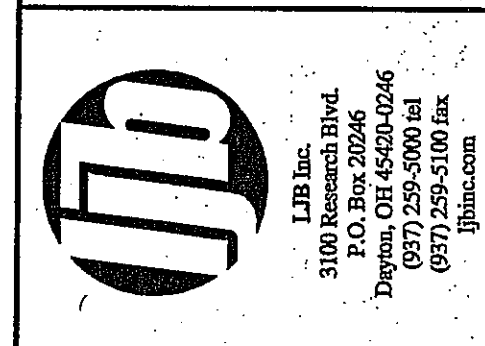
WEST WALL
6 3/4" THICK STRUCTURAL PANEL
2" THICK INSULATION
2 1/2" THICK FASCIA PANEL
3/4" DEEP RUSTICATION

Approved for Construction

NO.	DATE	DESCRIPTION	BY
3	11-7-03	RELEASED FOR PERMIT CONSTRUCTION	STR
2	10-31-03	RELEASED FOR REVIEW	STR
1	10-28-03	RELEASED FOR REVIEW	STR



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4605 DOUGLASS DR. MADISON, WISCONSIN 53704
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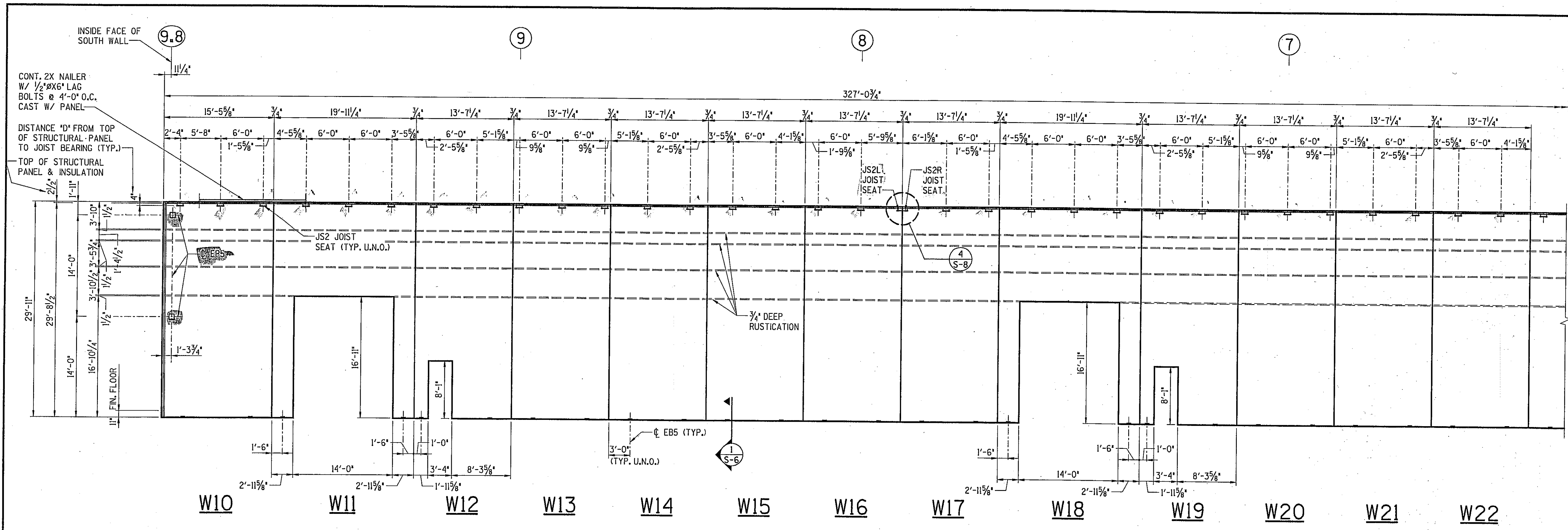
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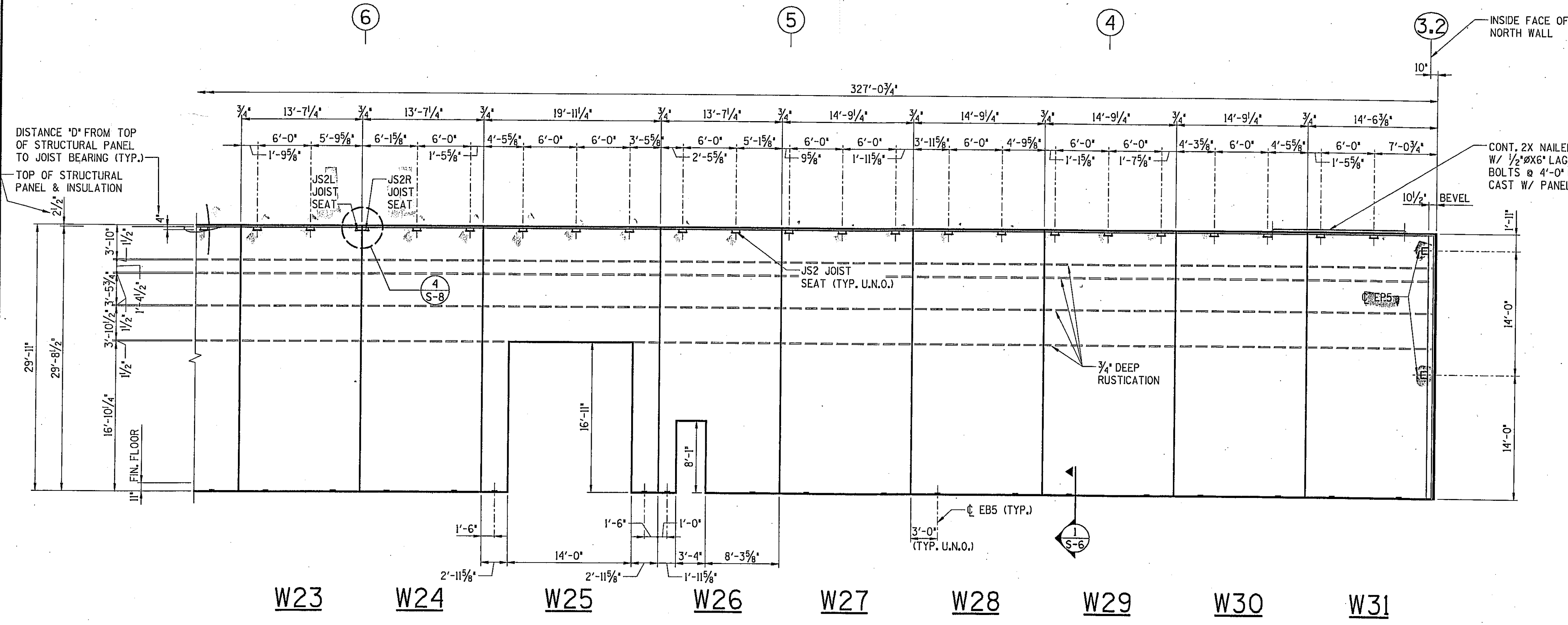


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SHEET TITLE		WALL PANEL LAYOUT	
DESIGNED	STR	JOB NO.	20442
DRAWN	JUS	CHECKED	SHEET NO.
DATE	OCT. 03	DATE	S-8



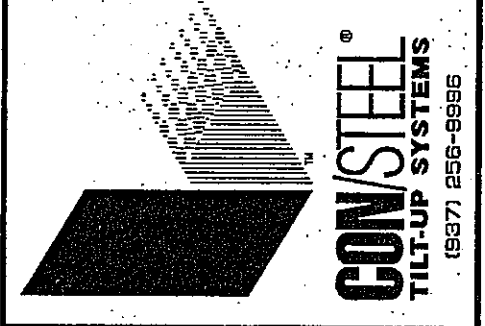
WEST WALL
 6 3/4" THICK STRUCTURAL PANEL
 2" THICK INSULATION
 2 1/2" THICK FASCIA PANEL
 3/4" DEEP RUSTICATION



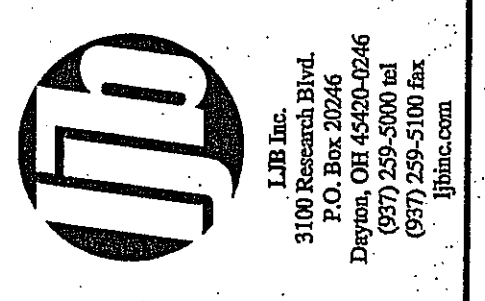
WEST WALL
 6 3/4" THICK STRUCTURAL PANEL
 2" THICK INSULATION
 2 1/2" THICK FASCIA PANEL
 3/4" DEEP RUSTICATION

Handwritten signature

NO.	DATE	DESCRIPTION	BY
3	11-7-03	RELEASED FOR PERMIT CONSTRUCTION	STR
2	10-31-03	RELEASED FOR REVIEW	STR
1	10-28-03	RELEASED FOR REVIEW	STR



RUEDEBUSCH & CONSTRUCTION
 DEVELOPMENT & CONSTRUCTION
 4665 DOUGLASS DR. MADISON, WISCONSIN 53704
 PHONE (608) 248-2912 FAX (608) 248-2023



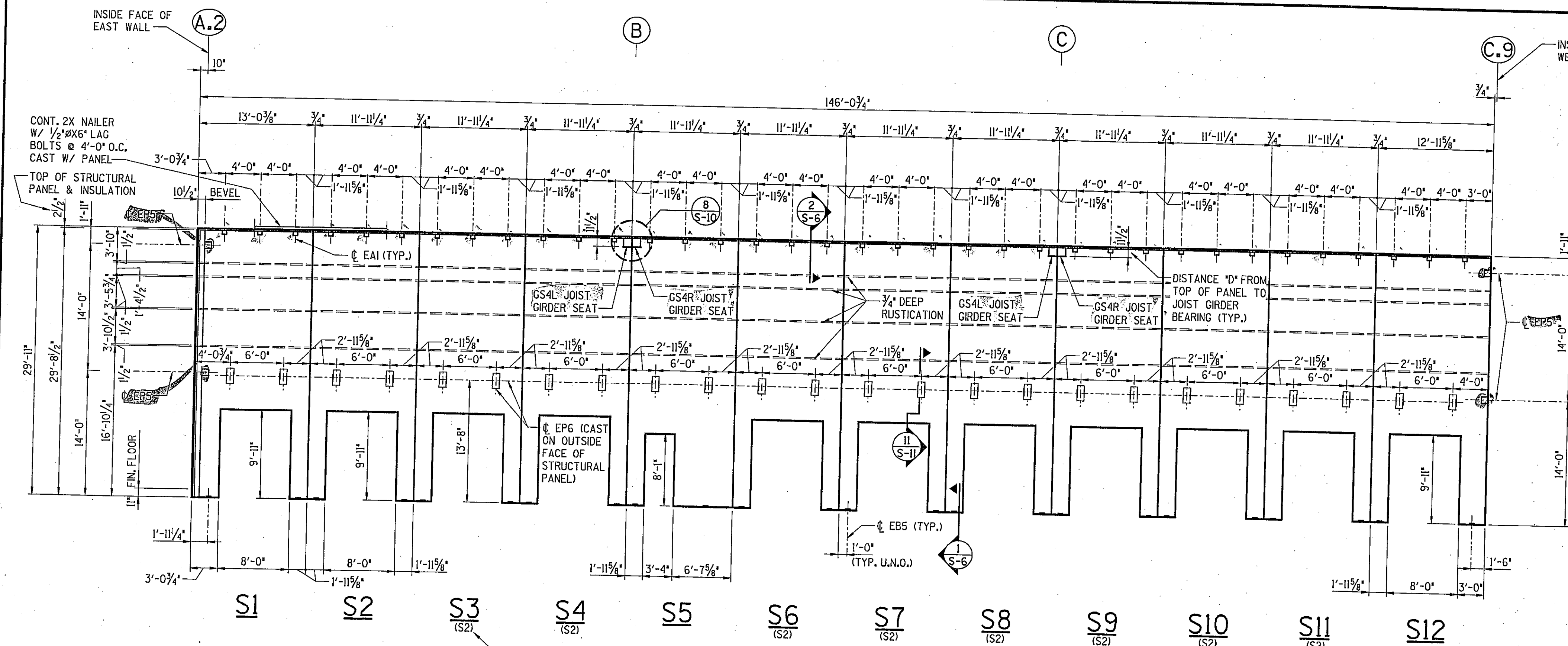
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 MADISON, WISCONSIN

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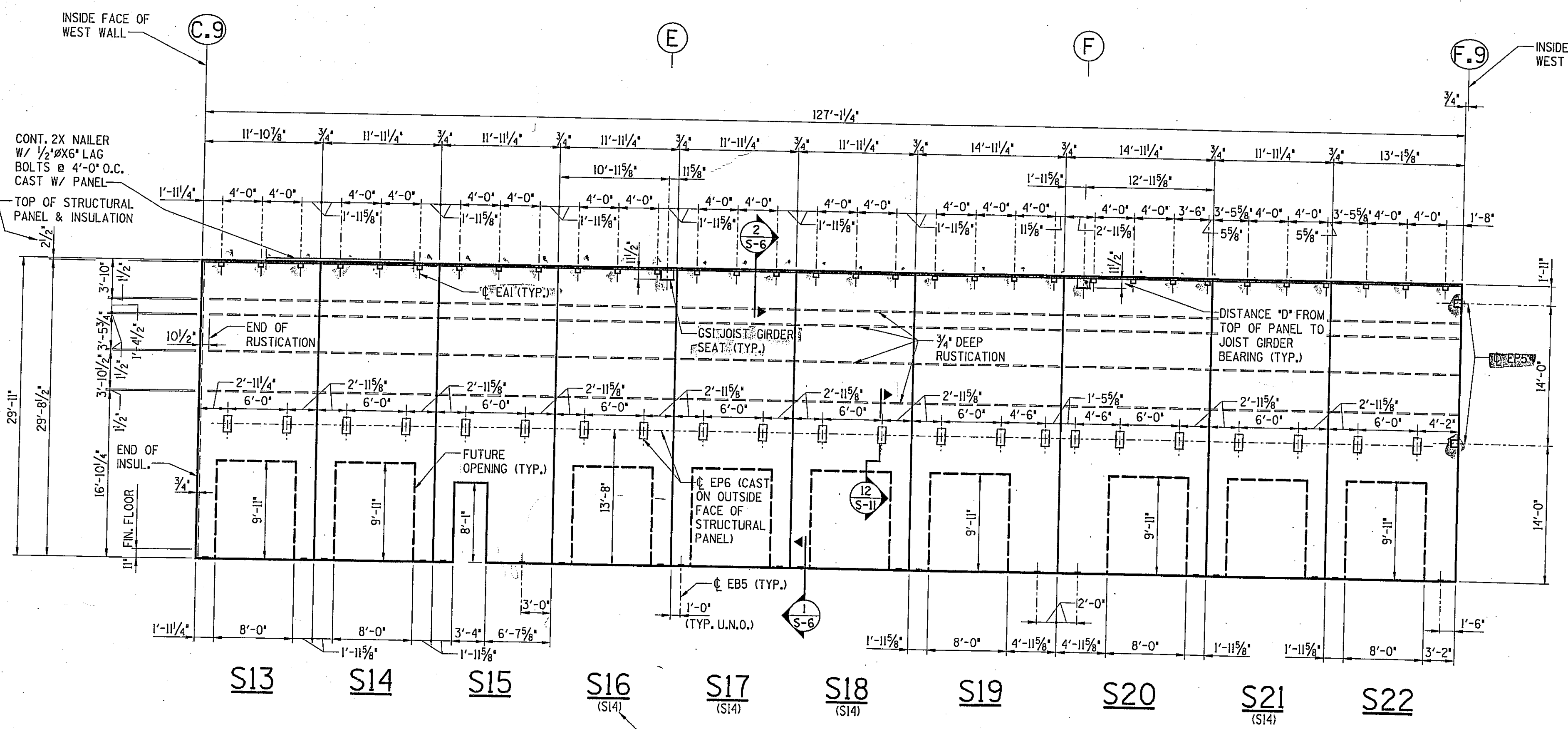


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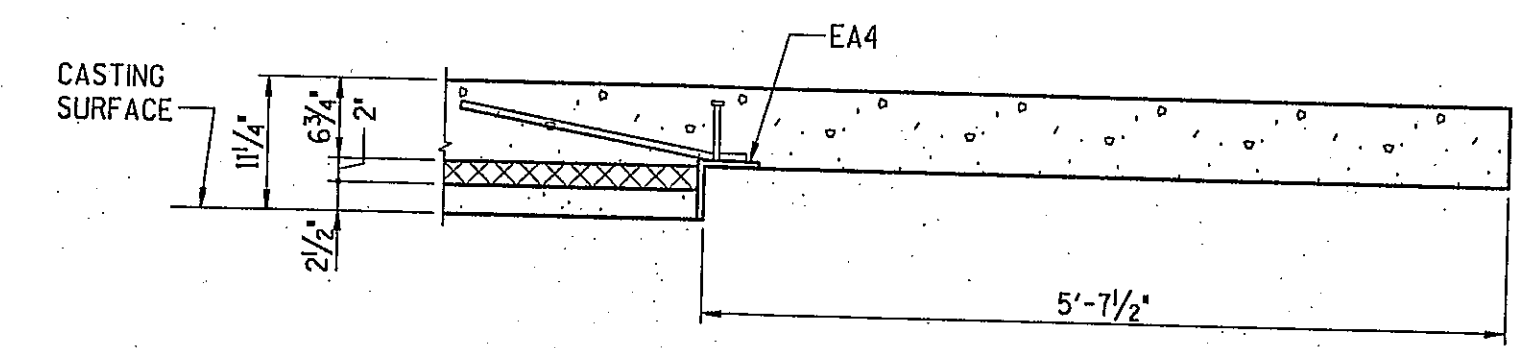
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WALL PANEL LAYOUT		20442	
DESIGNED	STR	DRAWN	JJS
CHECKED		SHEET NO.	S-9
DATE	OCT. 03		



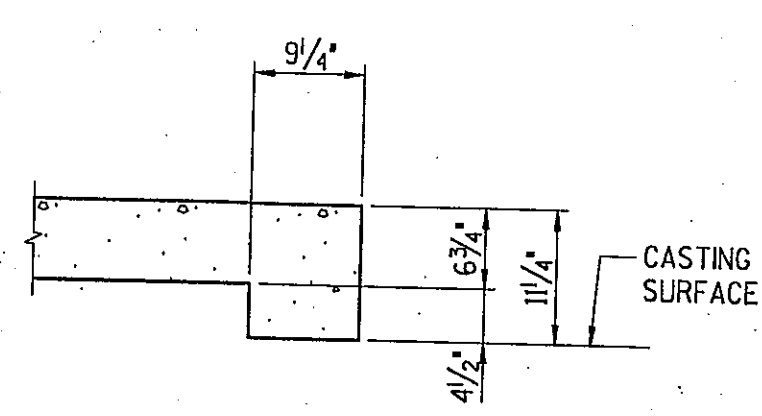
SOUTH WALL
 6 3/4" THICK STRUCTURAL PANEL
 2" THICK INSULATION
 2 1/2" THICK FASCIA PANEL
 3/4" DEEP RUSTICATION



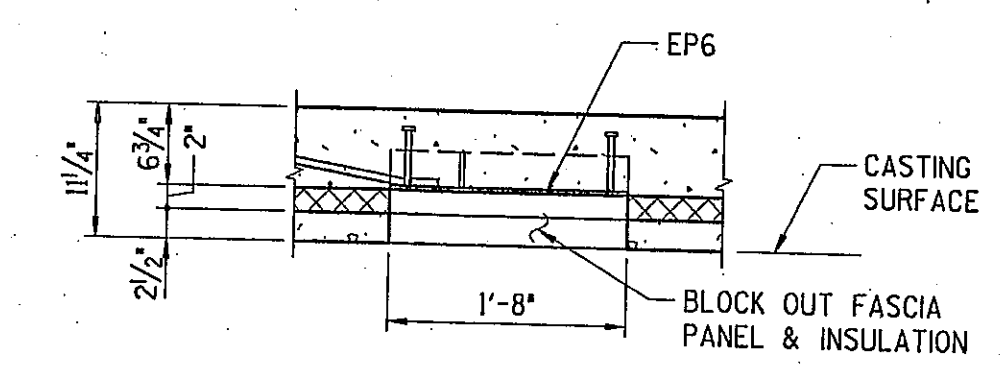
SOUTH WALL
 6 3/4" THICK STRUCTURAL PANEL
 2" THICK INSULATION
 2 1/2" THICK FASCIA PANEL
 3/4" DEEP RUSTICATION



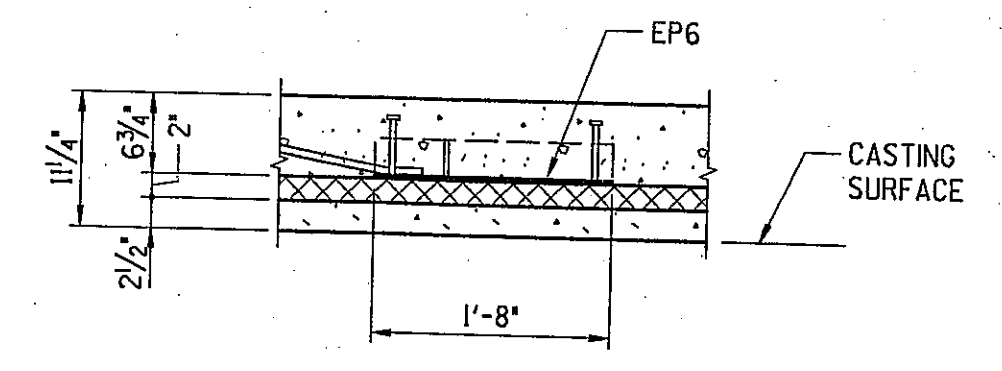
SECTION 9 S-10



SECTION 10 S-10



SECTION 11 S-7,8,11

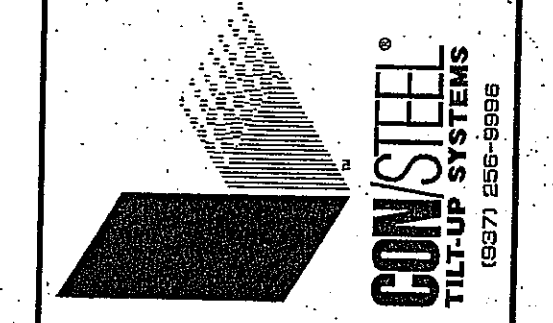


SECTION 12 S-11

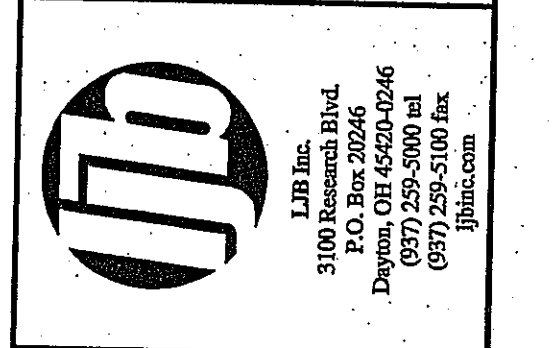
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NO.	DATE	DESCRIPTION	BY
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2	10-31-03	RELEASED FOR REVIEW	STR
1	10-29-03	RELEASED FOR REVIEW	STR



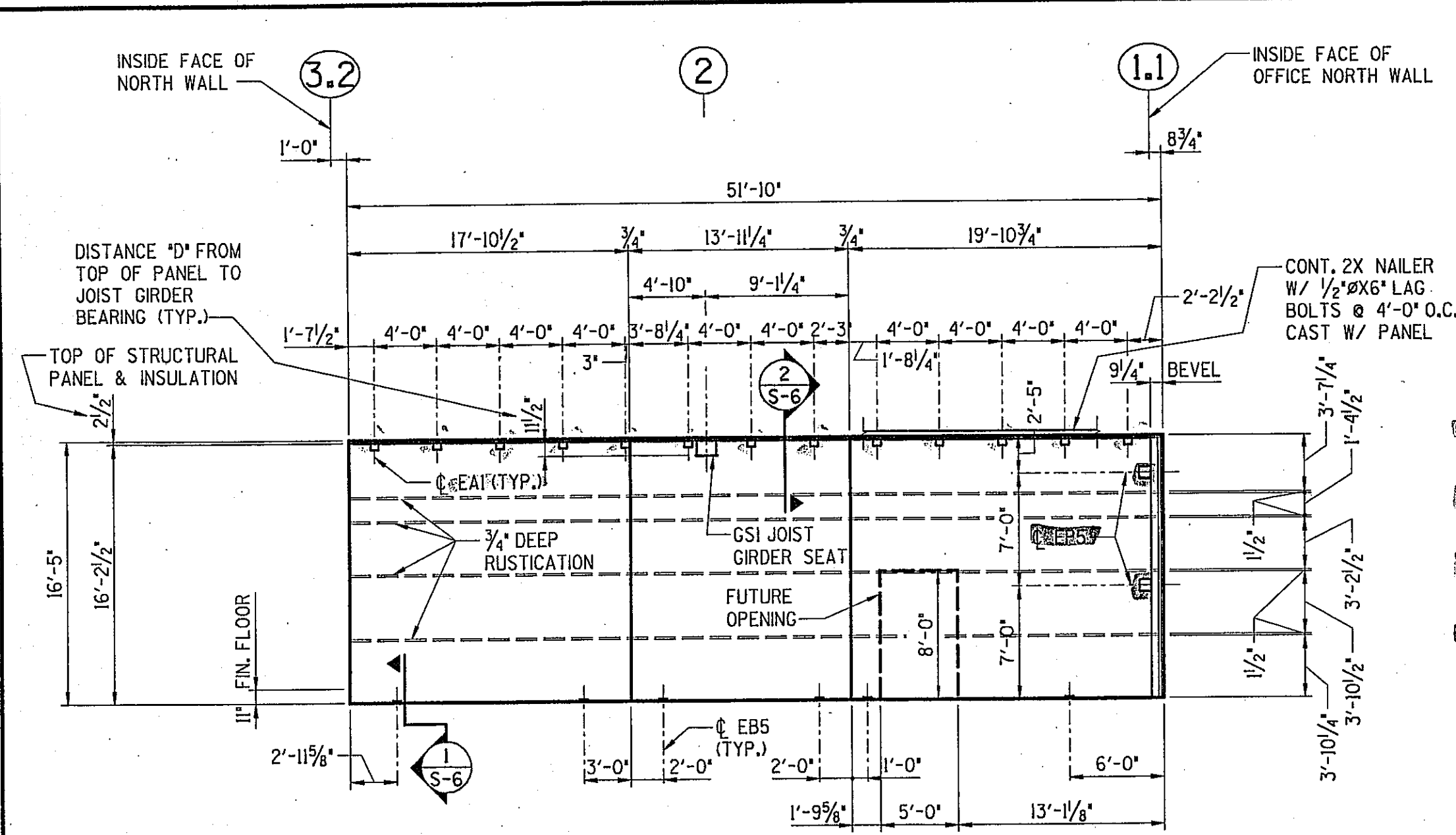
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 4635 DOVETAIL DR.
 PHONE (608) 248-2012 FAX (608) 248-2032



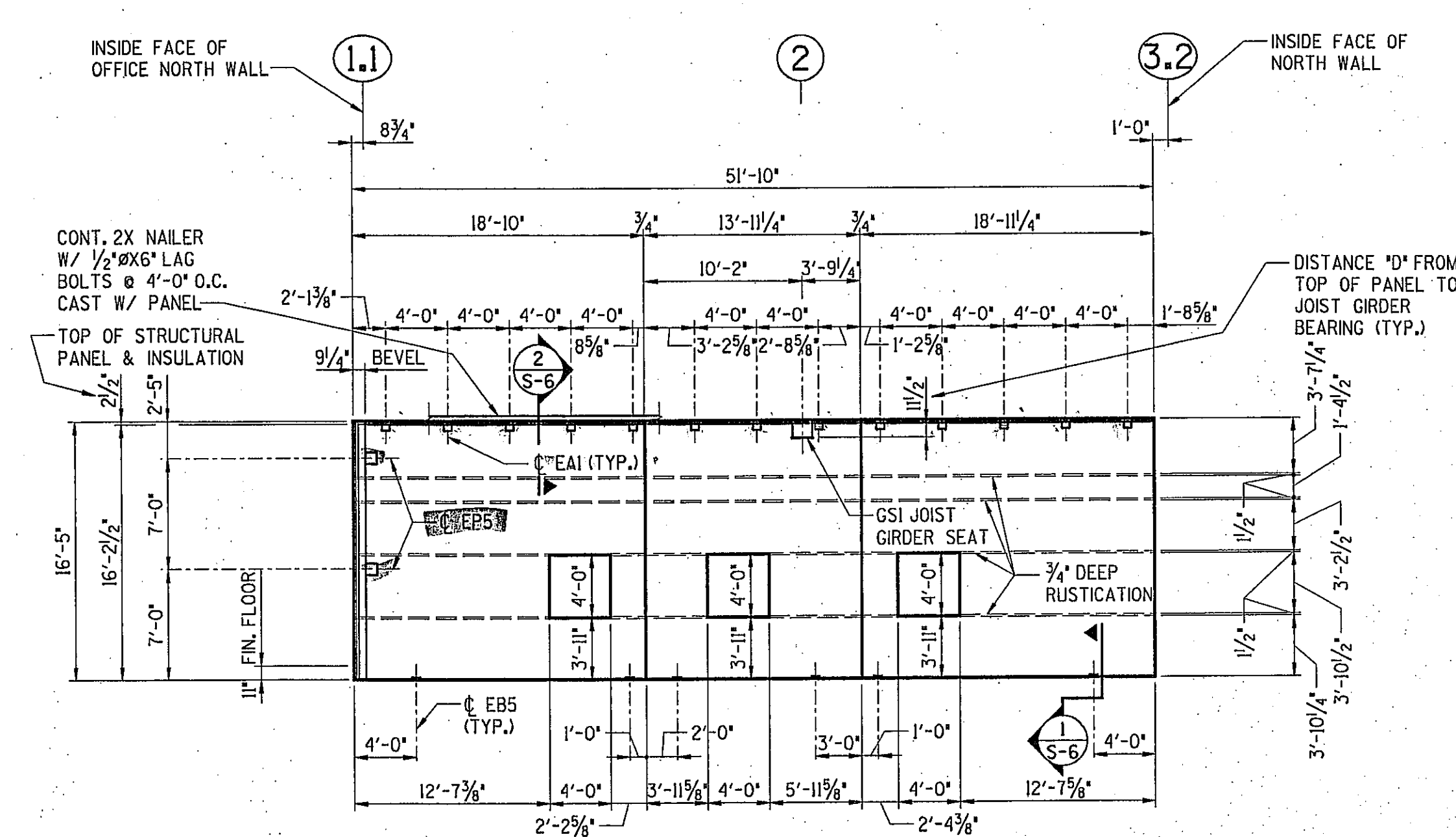
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SHEET TITLE		WALL PANEL LAYOUT	
DESIGNED	STR	JOB NO.	
DRAWN	JJS	20442	
CHECKED		SHEET NO.	
DATE	SEPT. 03	S-11	

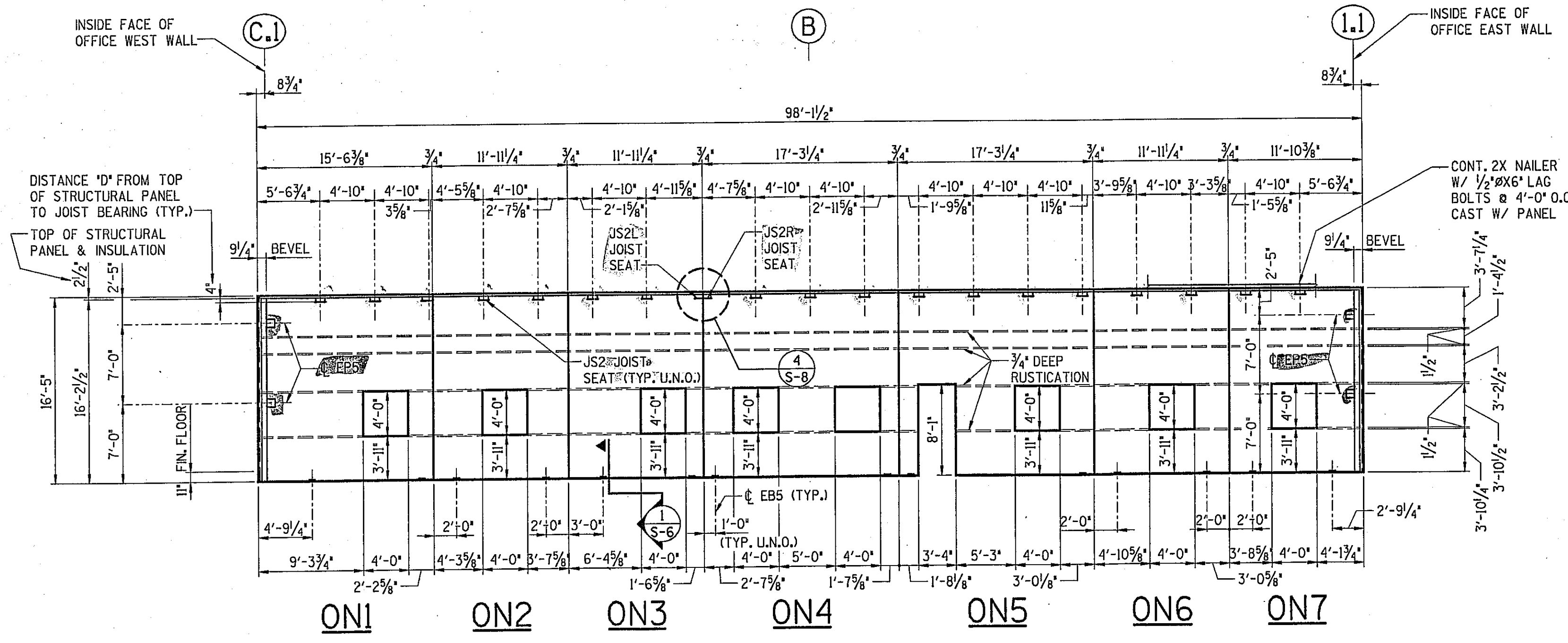
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OFFICE WEST WALL
5 1/2" THICK STRUCTURAL PANEL
2" THICK INSULATION
2 1/2" THICK FASCIA PANEL
3/4" DEEP RUSTICATION



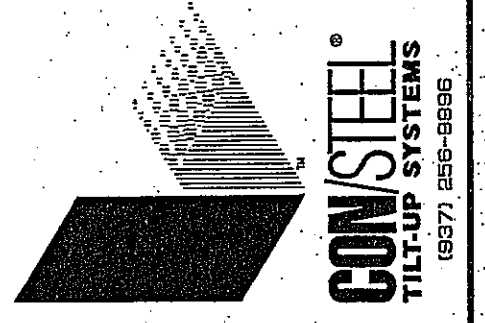
OFFICE EAST WALL
5 1/2" THICK STRUCTURAL PANEL
2" THICK INSULATION
2 1/2" THICK FASCIA PANEL
3/4" DEEP RUSTICATION



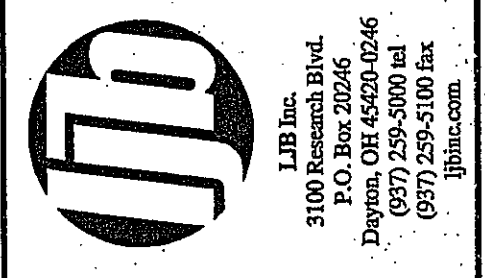
OFFICE NORTH WALL
5 1/2" THICK STRUCTURAL PANEL
2" THICK INSULATION
2 1/2" THICK FASCIA PANEL
3/4" DEEP RUSTICATION

Handwritten signature

NO.	DATE	DESCRIPTION	BY
3	11-7-03	RELEASED FOR PERMIT CONSTRUCTION	STR
2	10-31-03	RELEASED FOR REVIEW	STR
1	10-28-03	RELEASED FOR REVIEW	STR



RUEDEBUSCH DEVELOPMENT & CONSTRUCTION
466 S. CENTRAL DR.
MADISON, WISCONSIN 53704
PHONE (608) 262-2012 FAX (608) 262-2022



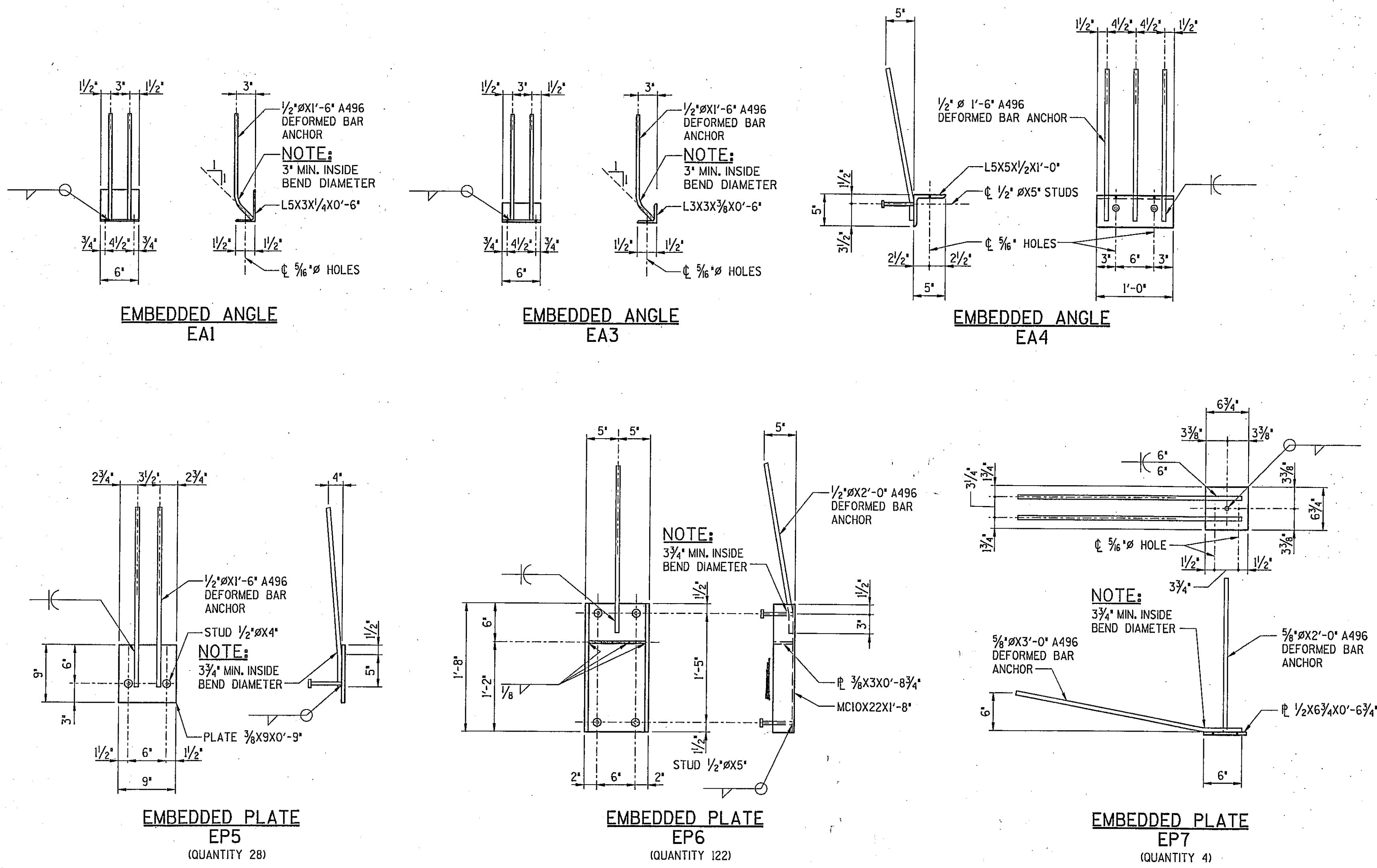
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SHEET TITLE		JOB NO.	
WALL PANEL LAYOUT		20442	
DESIGNED	STR	CHECKED	STR
DRAWN	JJS	DATE	SEPT. 03
SHEET NO.		S-12	



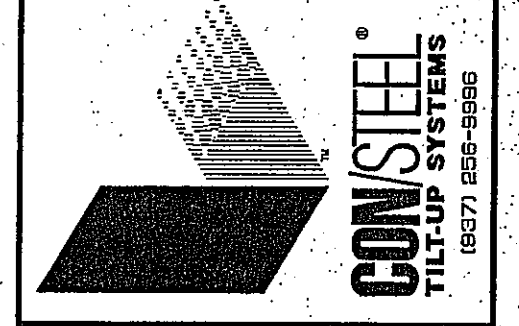
MISCELLANEOUS MATERIALS LIST		
DESCRIPTION	QUANTITY	MARK
PERIMETER ANGLE (SIDE WALL) L2 1/2 x 1 1/2 x 3/8	1,008 L.F.	
PERIMETER ANGLE (END WALL) L2 1/2 x 2 1/2 x 3/8 W/ 3/8" HOLES @ 4'-0" O.C.	648 L.F.	
BOTTOM CHORD EXTENSION L2 1/2 x 2 1/2 x 3/8 (FIELD MEASURE)	46 PCS.	
WALL BRACE L2 1/2 x 2 1/2 x 3/8 x 20'-0"	44 PCS.	

NOTE: VERIFICATION OF QUANTITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.

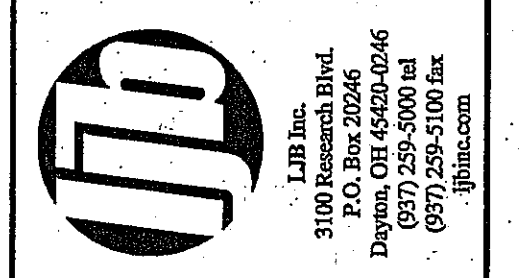
Check M. B. Smith

NO.	DATE	DESCRIPTION	BY
2	11-7-03	RELEASED FOR PERMIT CONSTRUCTION	STR
1	10-31-03	RELEASED FOR REVIEW	STR

REVISIONS



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 MADISON, WISCONSIN 53704
 4845 FORTALIA DR.
 MADISON, WI 53704
 PHONE (608) 246-5252 FAX (608) 246-2322



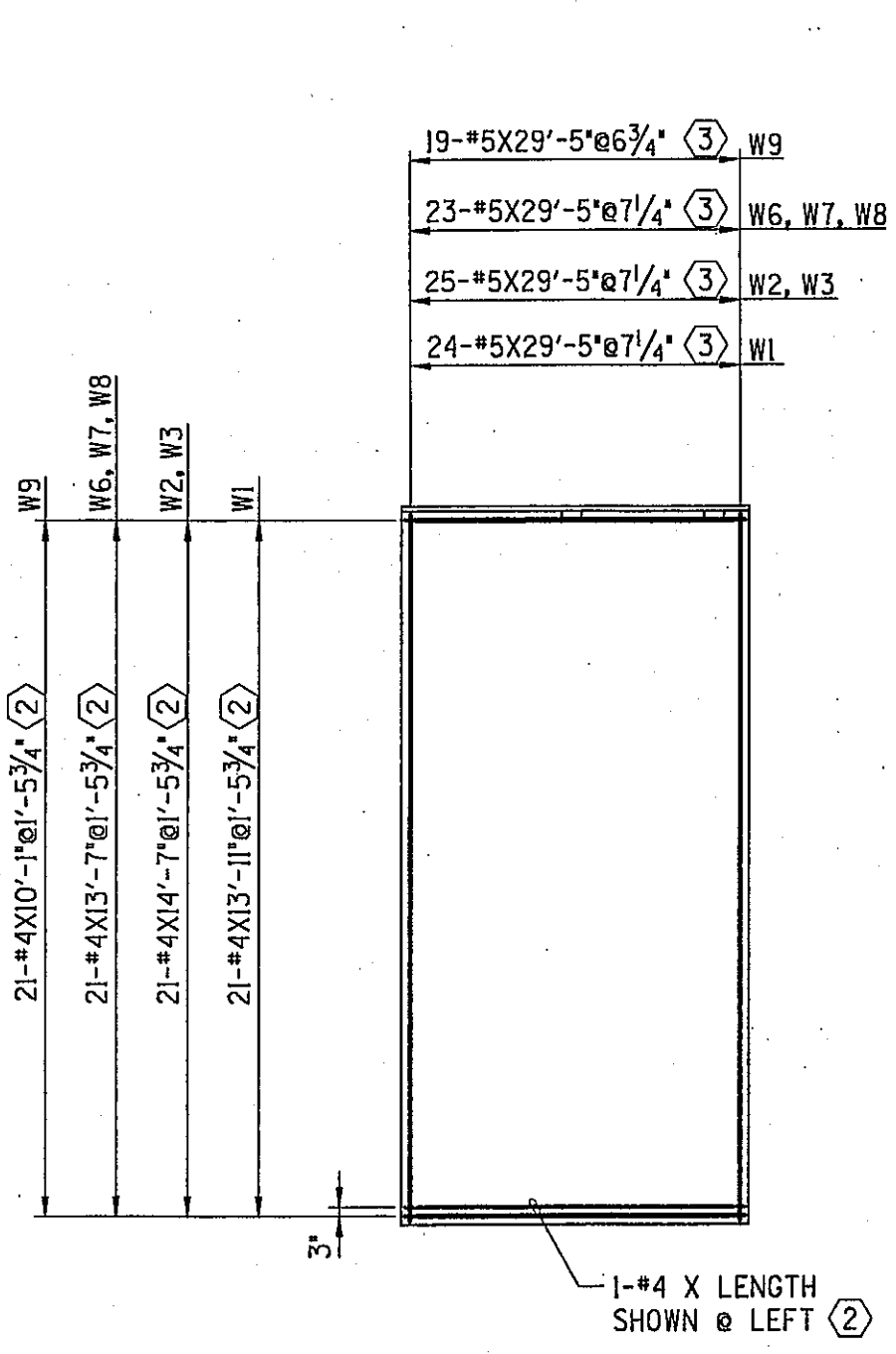
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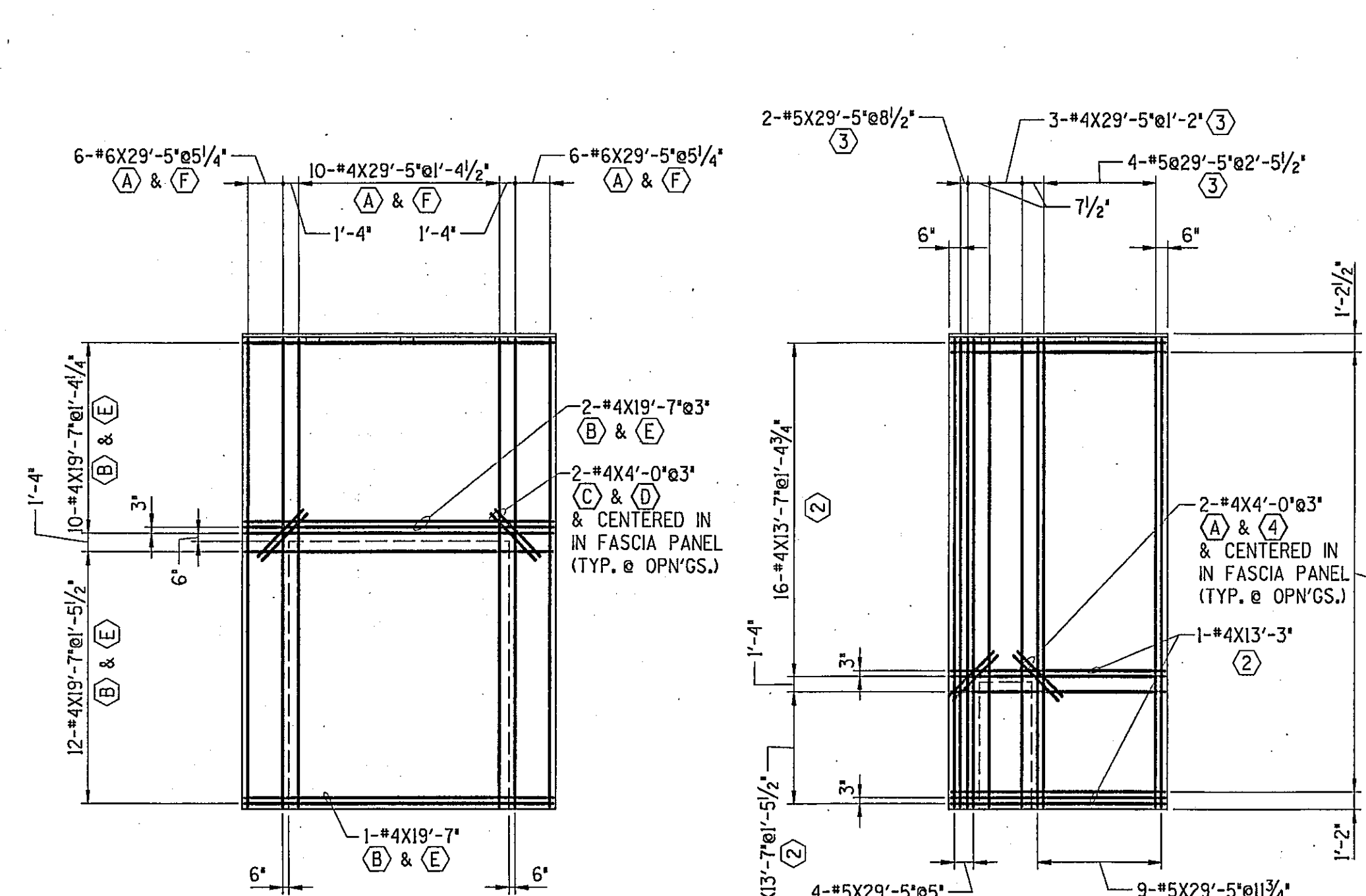


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SHEET TITLE	STANDARD FABRICATION DETAILS
DESIGNED	STR
DRAWN	JMH
CHECKED	
DATE	OCT. 03
JOB NO.	20442
SHEET NO.	S-13A

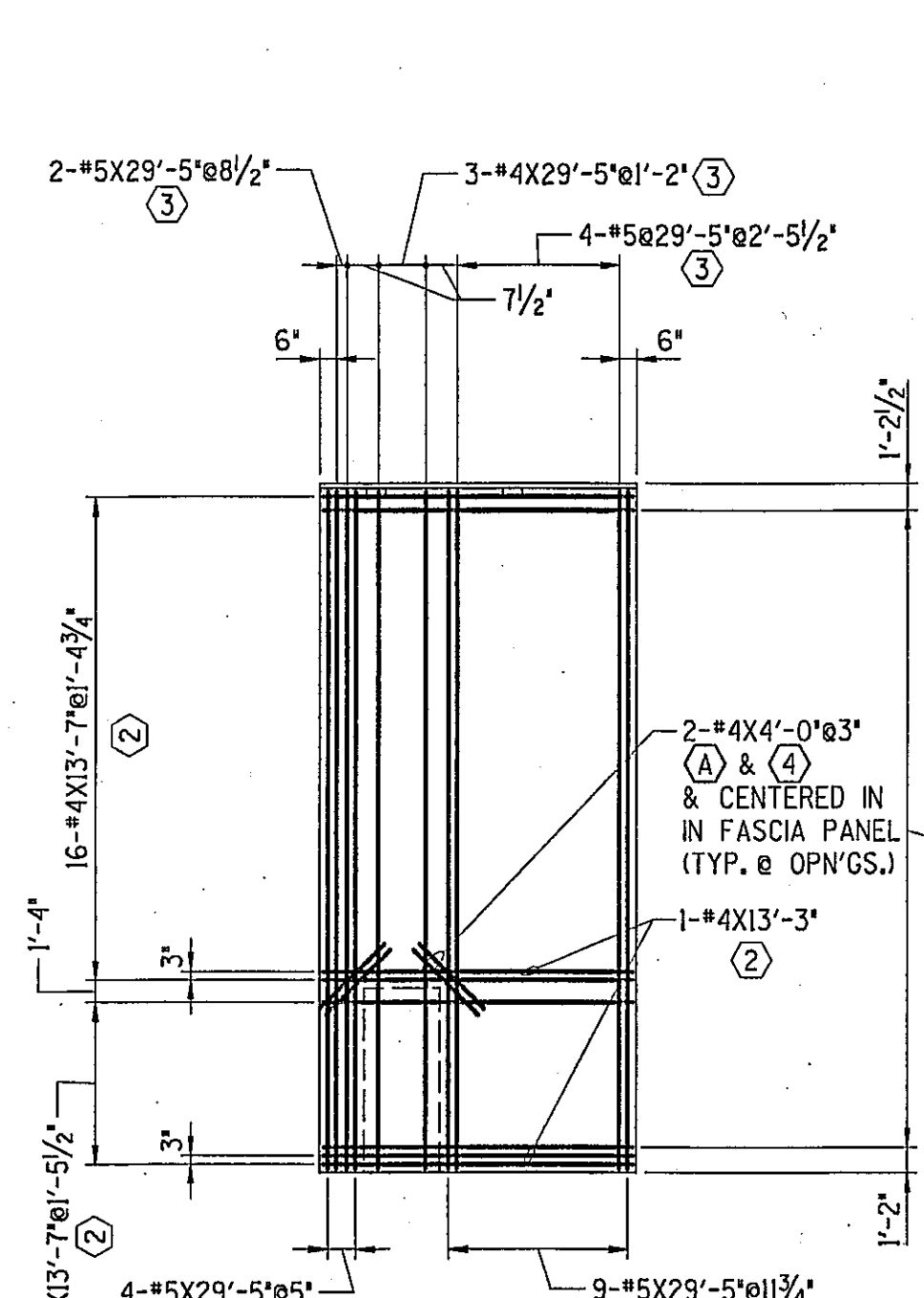


**W1, W2, W3, W6
W7, W8, W9**

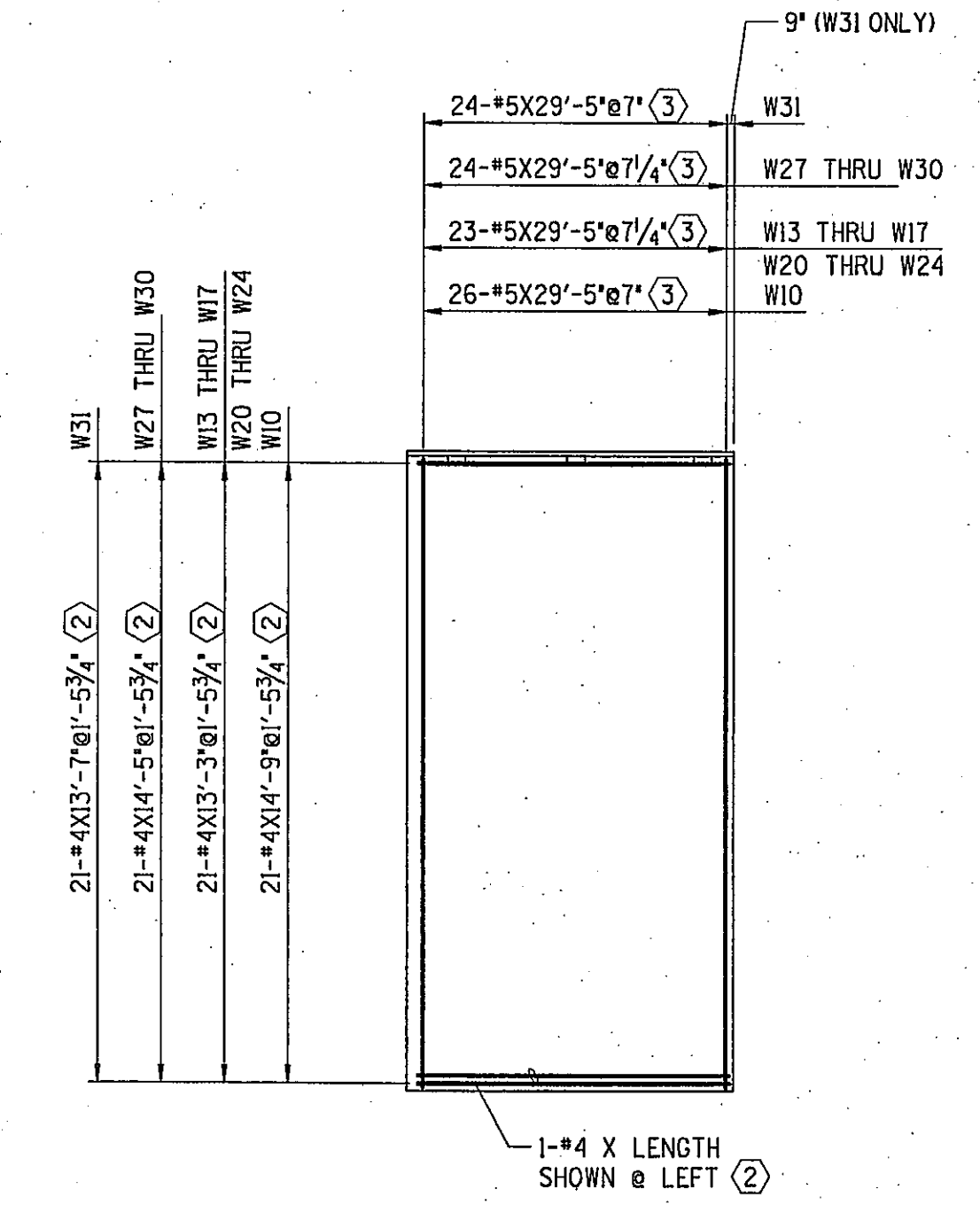


W4

NOTE: BAR SIZE FOR LEVELS (A) & (F)



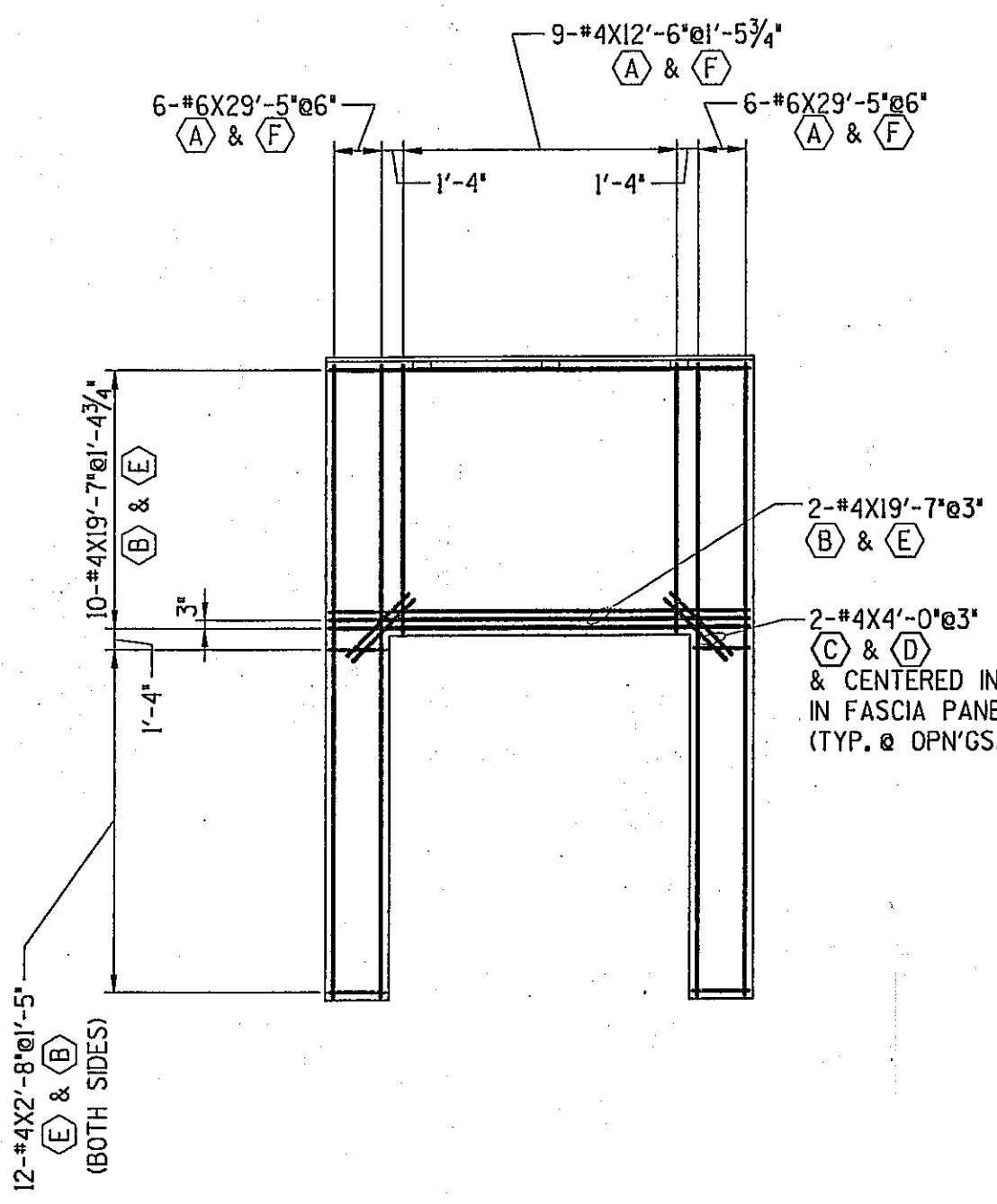
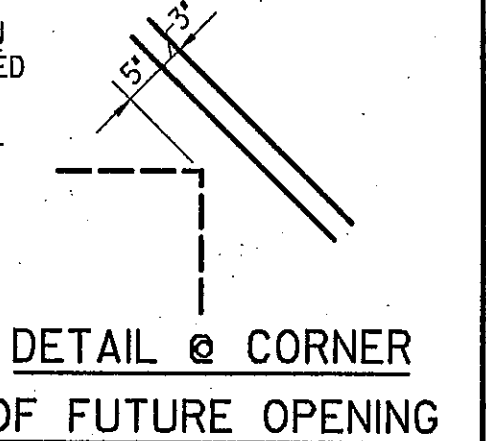
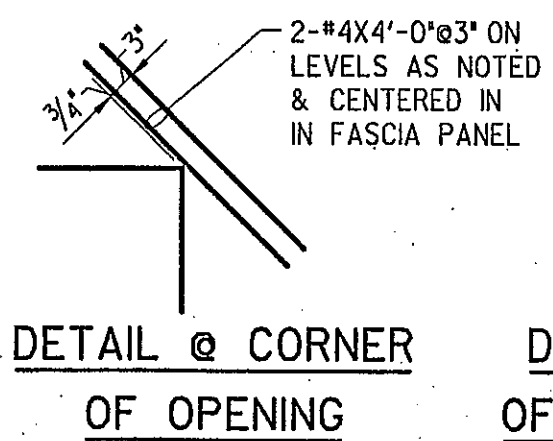
W5



**W10, W13 THRU W17
W20 THRU 24, W27 THRU W31**

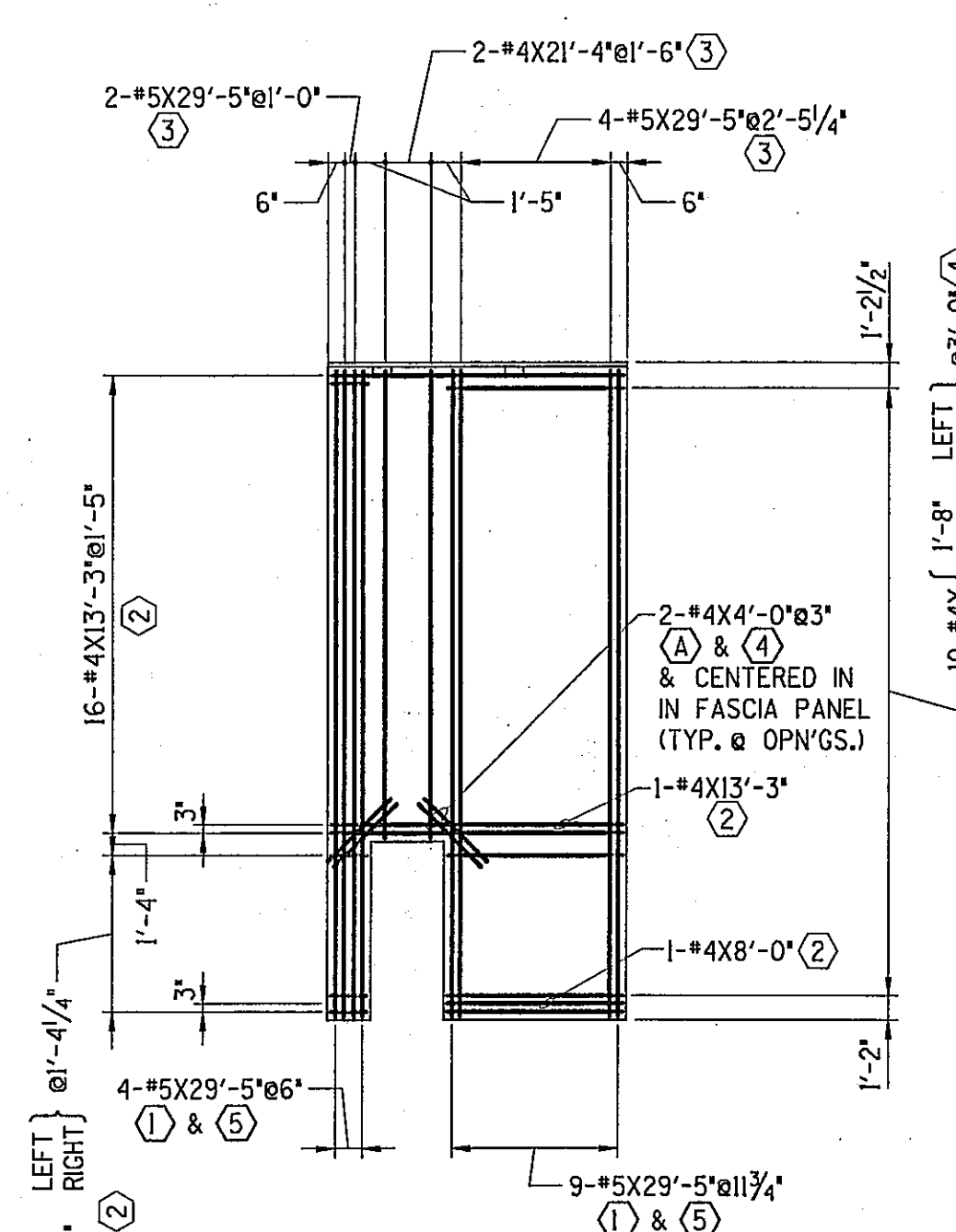
PANEL REINFORCING NOTES

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 (C) DENOTES LEVEL OF REINFORCING BARS.
5. WHERE THE VERTICAL REINFORCING BARS ARE REQUIRED IN LEVELS (1), (3) AND (5), LEVEL (5) BARS SHALL BE PLACED DIRECTLY ABOVE LEVEL (1) BARS. LEVEL (3) BARS SHALL BE PLACED TO CLEAR BARS ON LEVEL (1) OR LEVEL (5) 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 (2) 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 (2) 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. (I.E. 4-#5 (1) & (5) = 8-#5 TOTAL.)

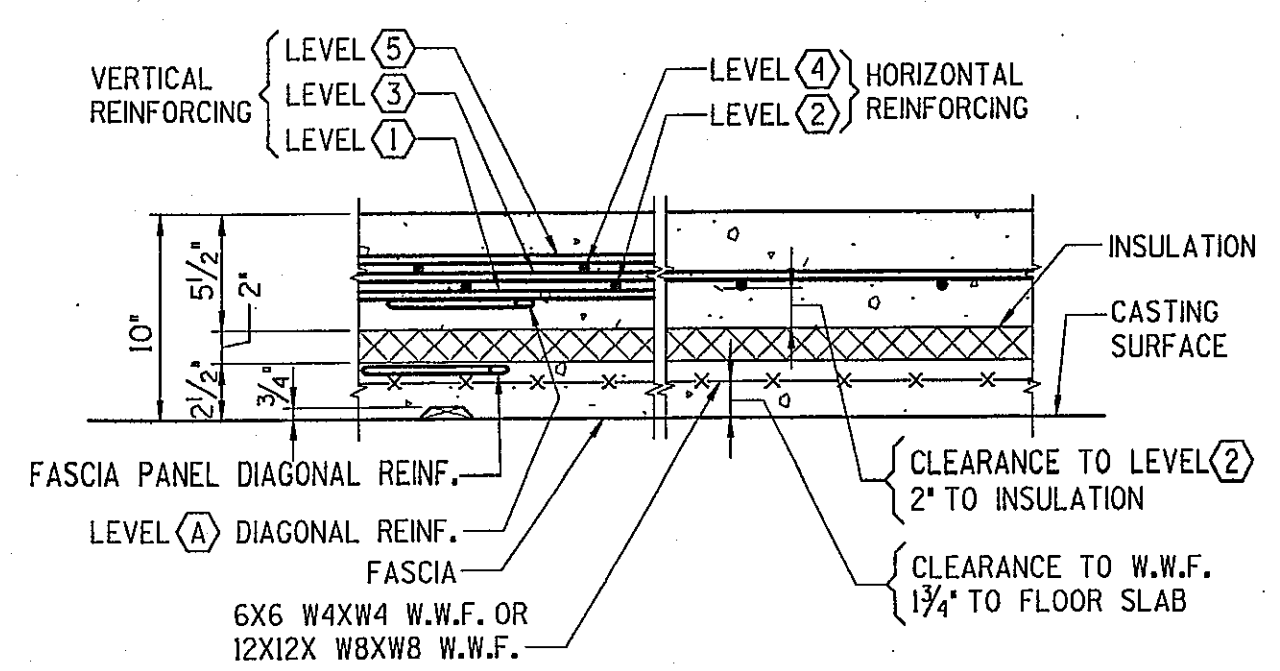


W11, W18, W25

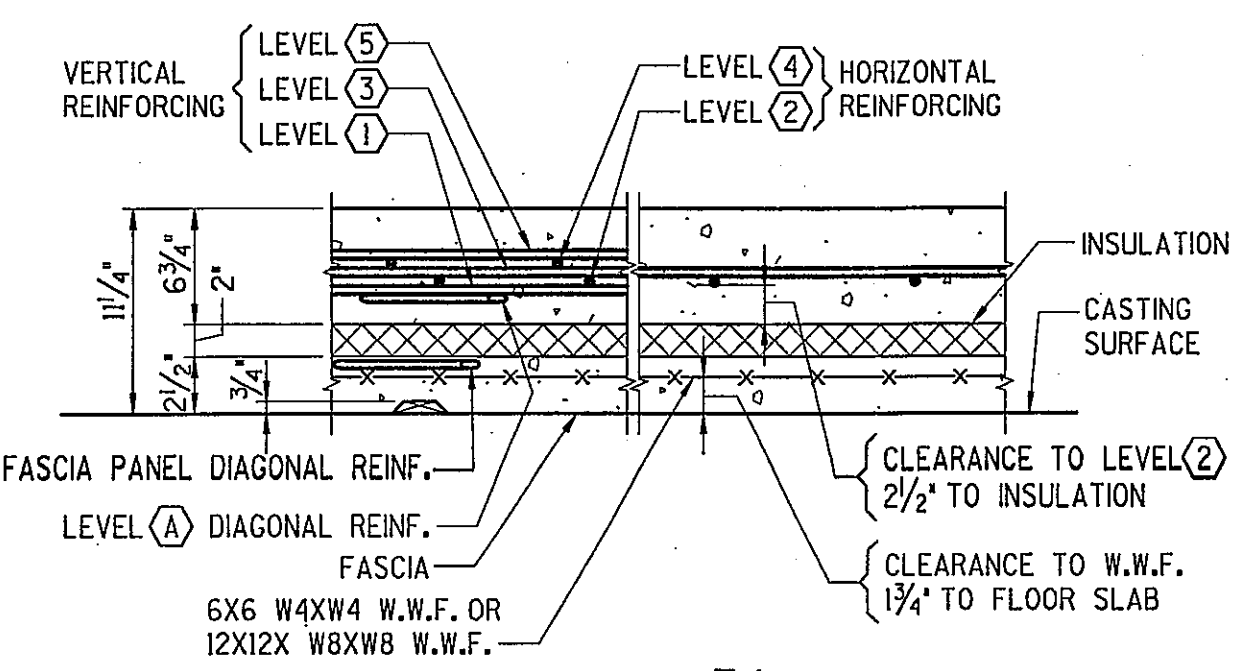
NOTE: BAR SIZE FOR LEVELS (A) & (F)



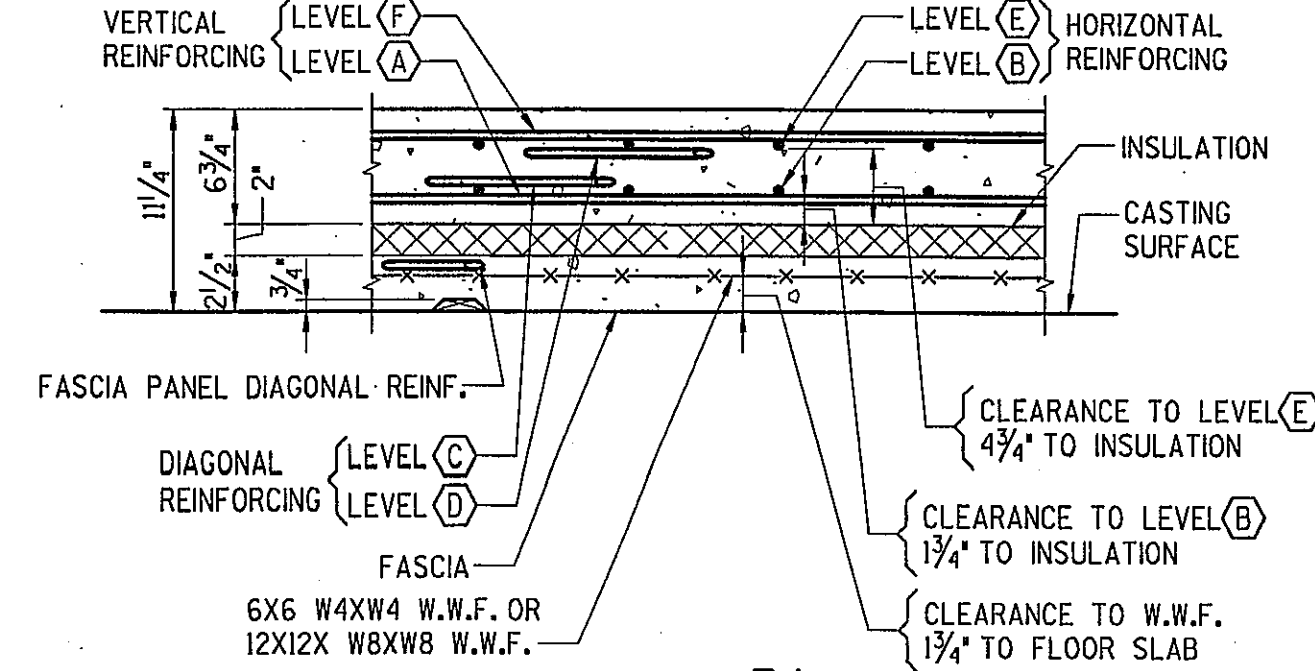
W12, W19, W26



SMOOTH FINISH W/ 3/4" RUSTICATION
(REQUIRES 2" HIGH CHAIRS TO LEVEL (2))
(REQUIRES 1 3/4" HIGH CHAIRS TO W.W.F.)
TYPICAL FOR OFFICE PANELS



SMOOTH FINISH W/ 3/4" RUSTICATION
(REQUIRES 2 1/4" HIGH CHAIRS TO LEVEL (2))
(REQUIRES 1 3/4" HIGH CHAIRS TO W.W.F.)
TYPICAL FOR WAREHOUSE PANELS U.N.O.



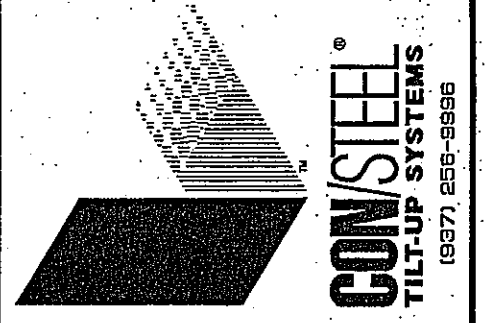
SMOOTH FINISH W/ 3/4" RUSTICATION
(REQUIRES 1 1/2" HIGH CHAIRS TO LEVEL (B))
(REQUIRES 4 3/4" HIGH CHAIRS TO LEVEL (E))
(REQUIRES 1 3/4" HIGH CHAIRS TO W.W.F.)
TYPICAL FOR WAREHOUSE PANELS AS NOTED

AS BUILT

CON/STEEL ALLIANCE

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NO.	DESCRIPTION
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1	RELEASED FOR CONSTRUCTION

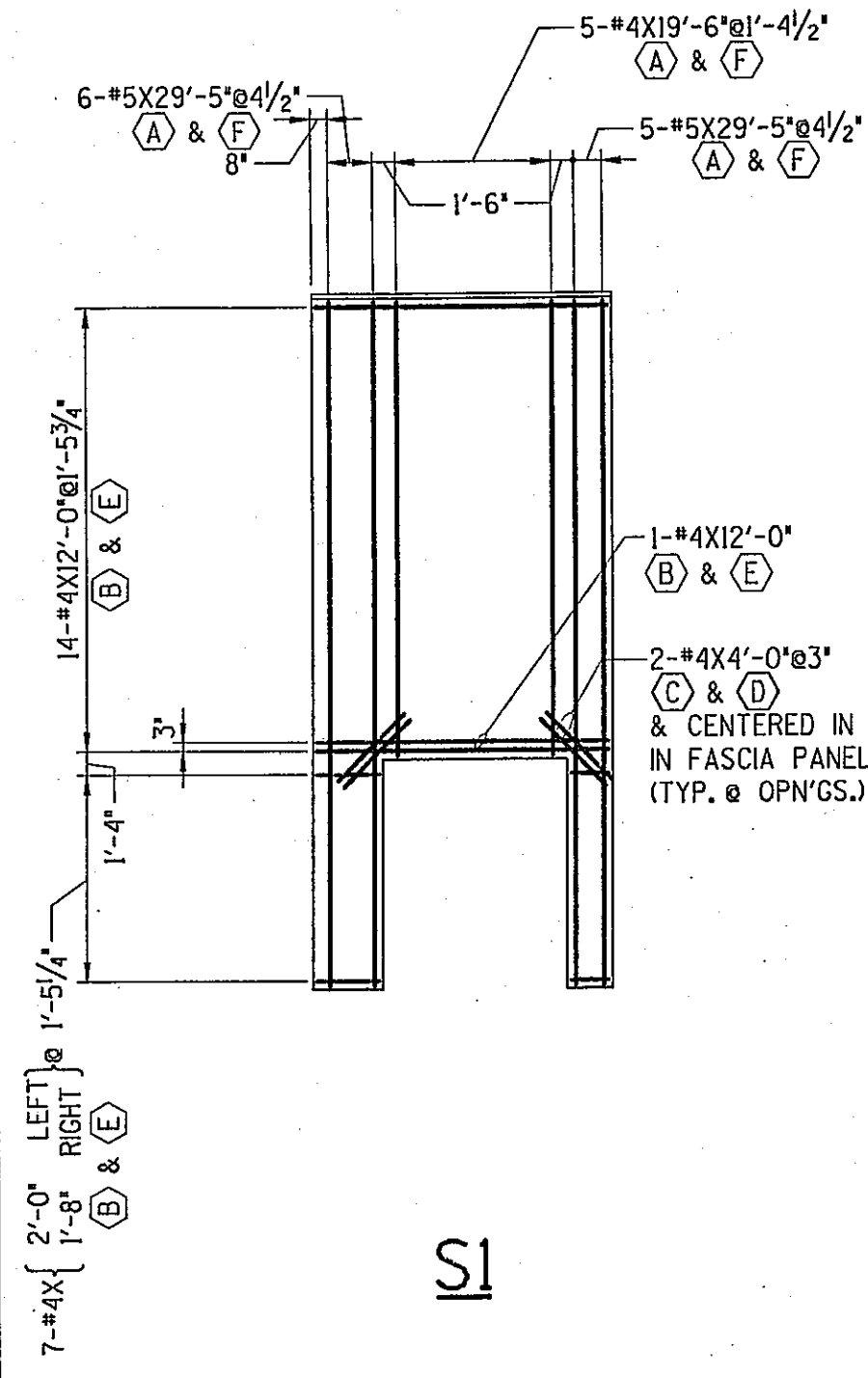


RUEDEBUSCH DEVELOPMENT & CONSTRUCTION
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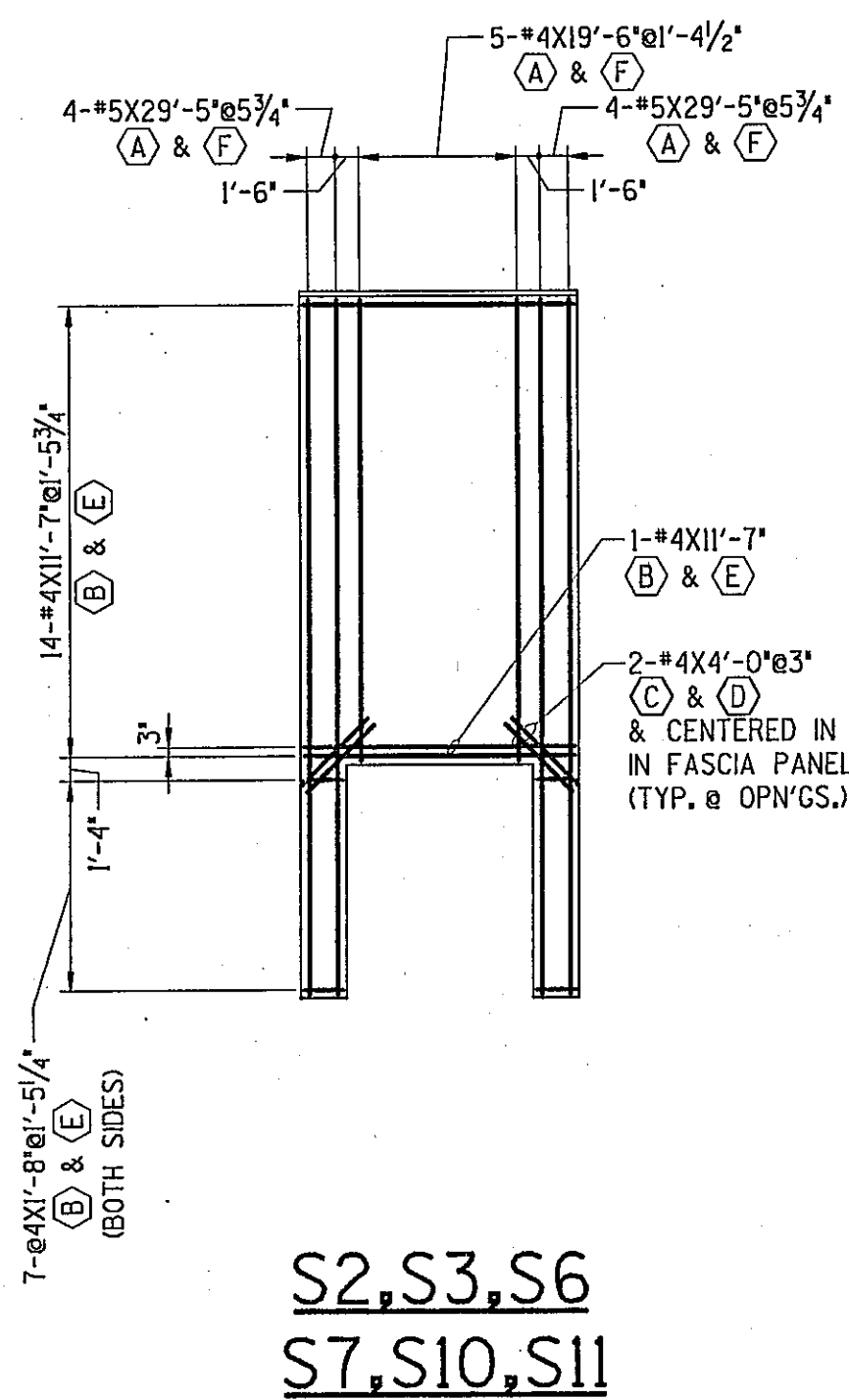
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(977) 259-5100 fax
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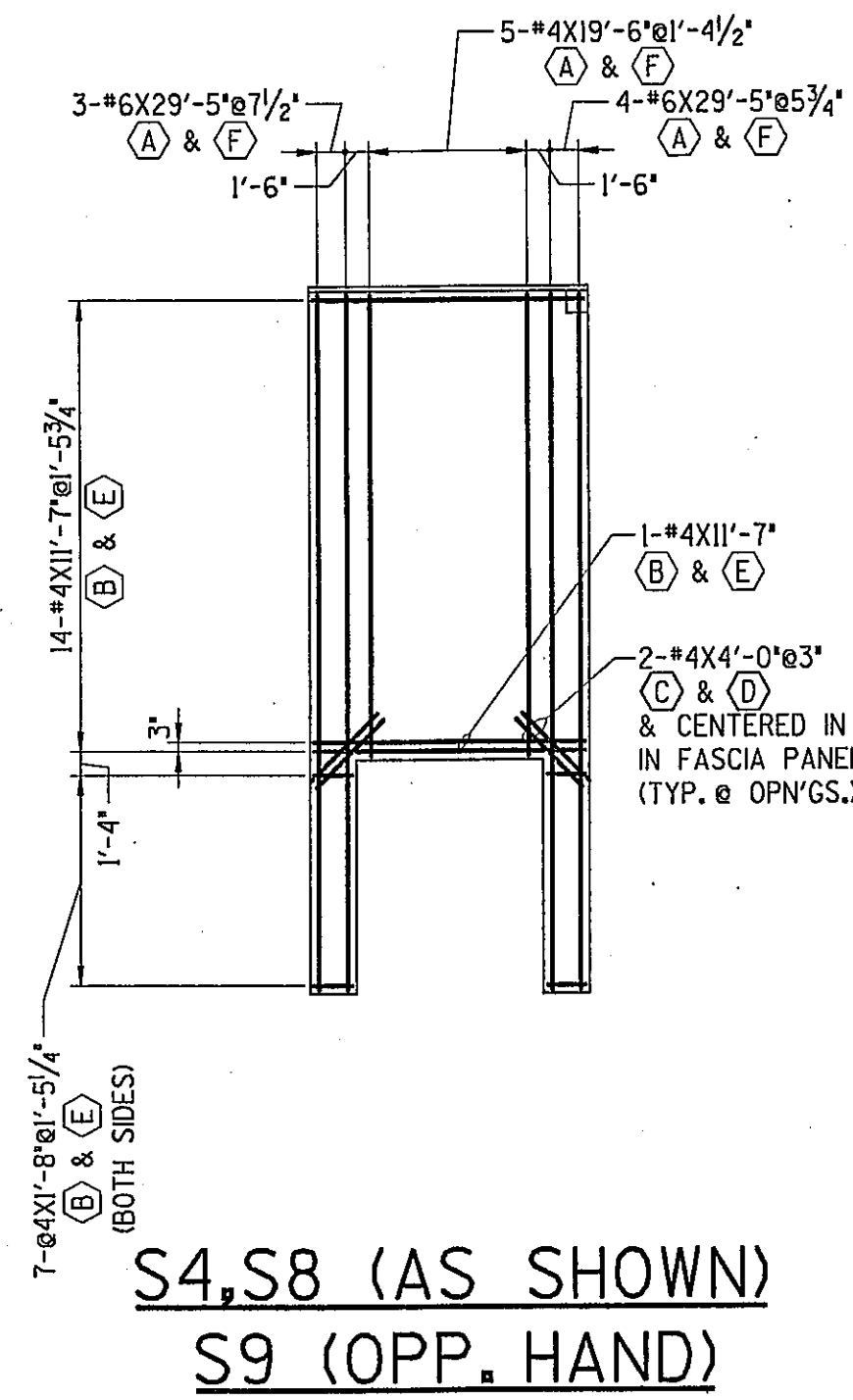
SHEET TITLE	PANEL REINFORCING	
DESIGNED	RK	JOB NO.
DRAWN	JMH	20442
CHECKED	STR	SHEET NO.
DATE	OCT 03	S-14



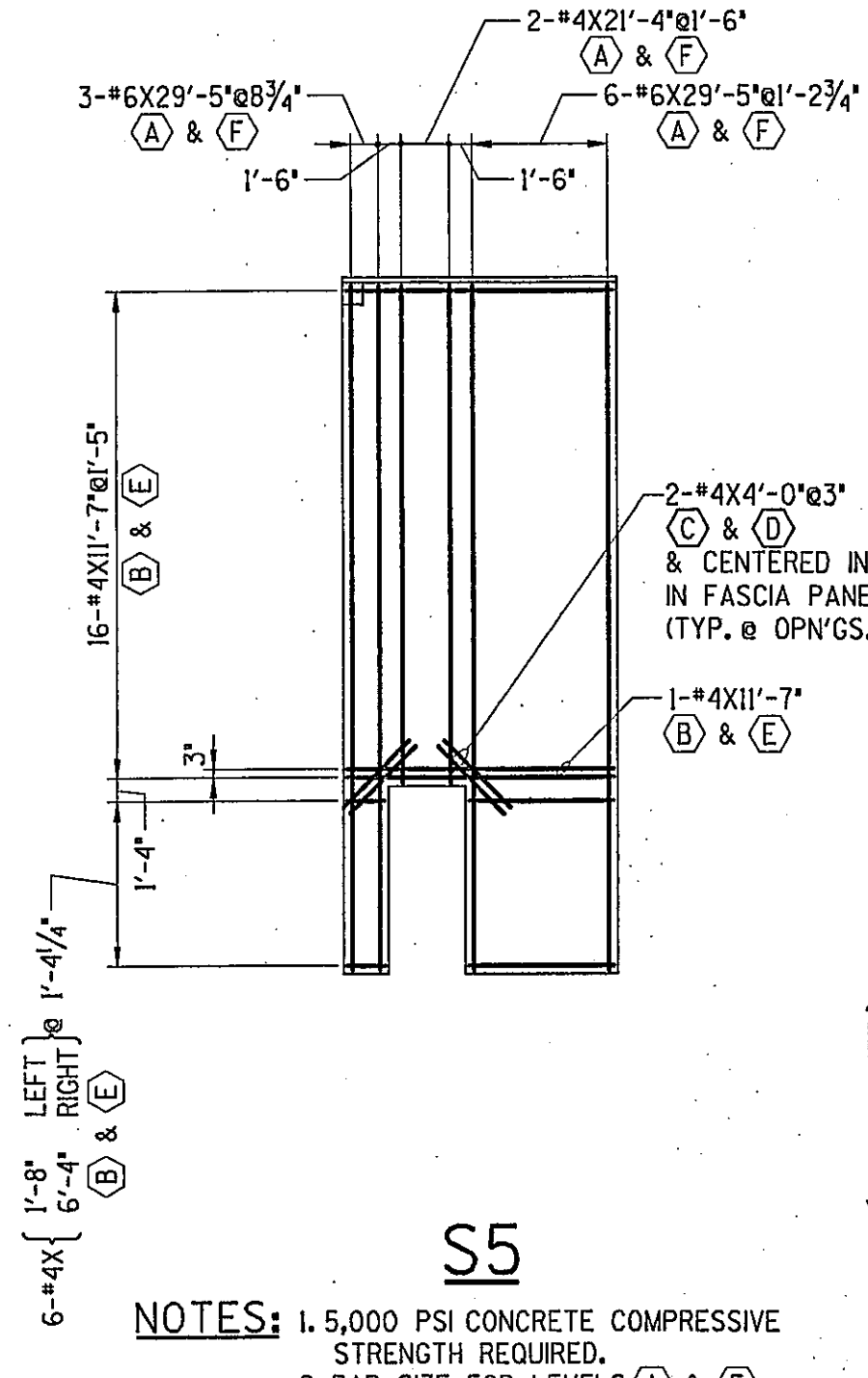
S1



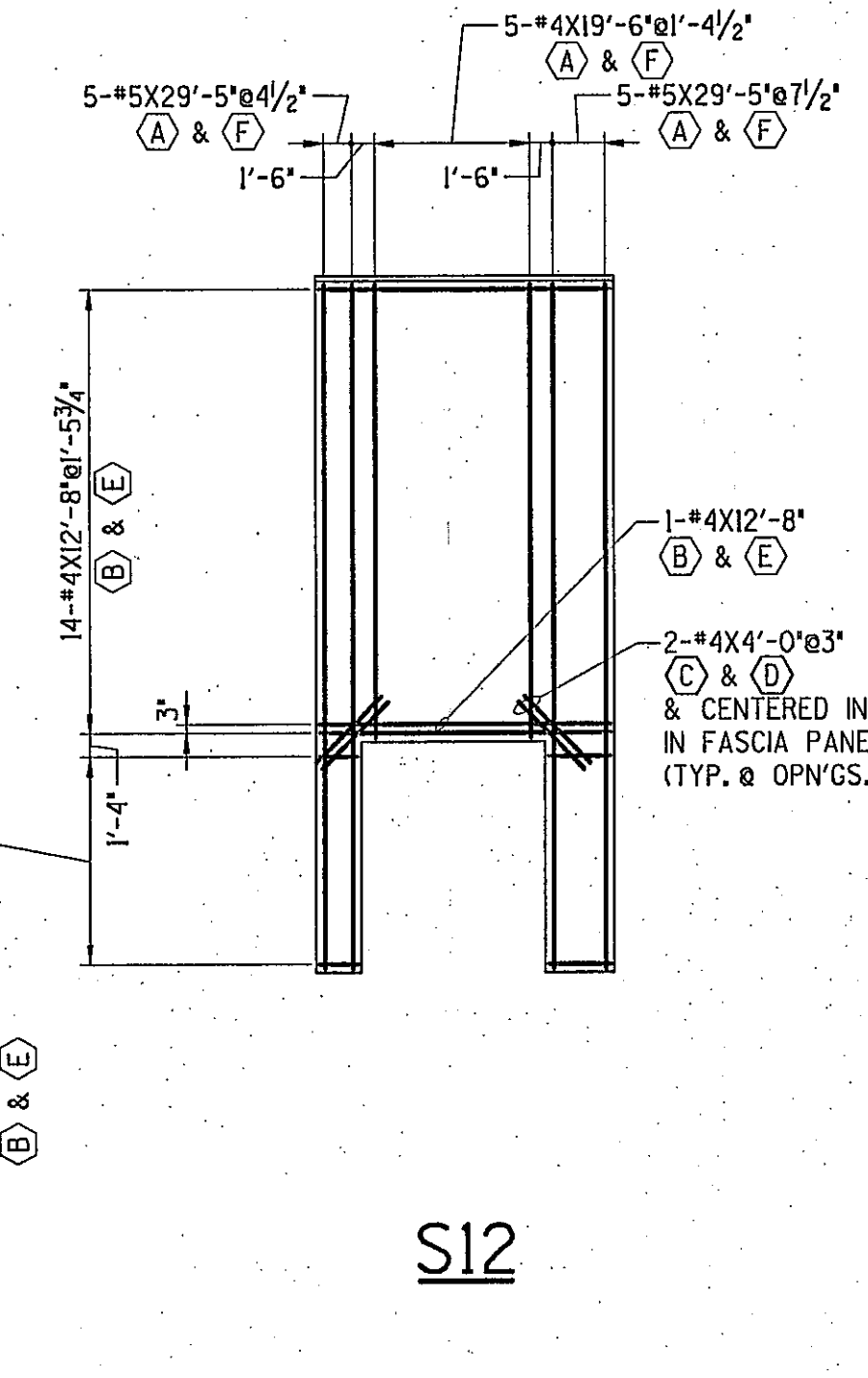
**S2,S3,S6
S7,S10,S11**



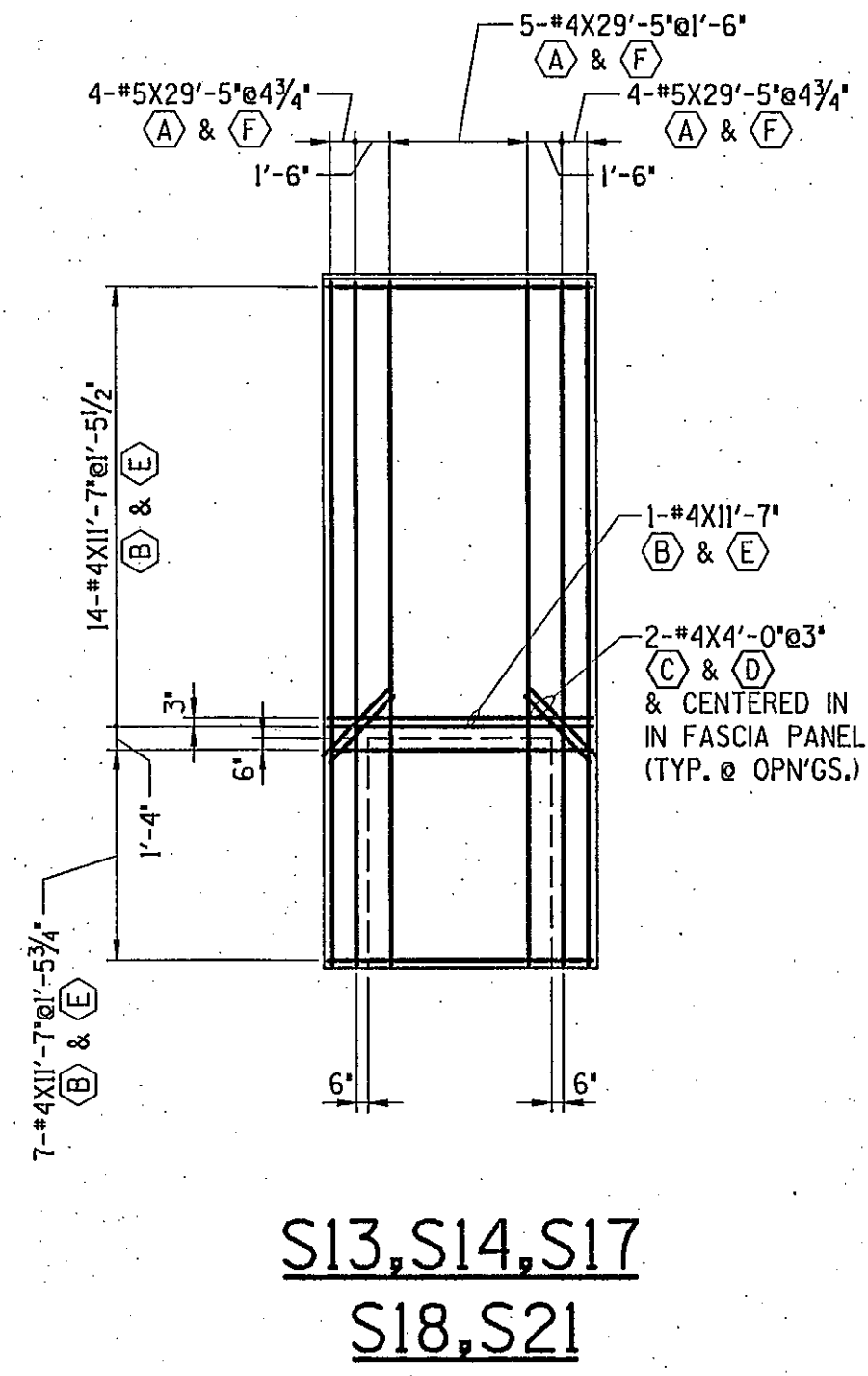
**S4,S8 (AS SHOWN)
S9 (OPP. HAND)**



S5

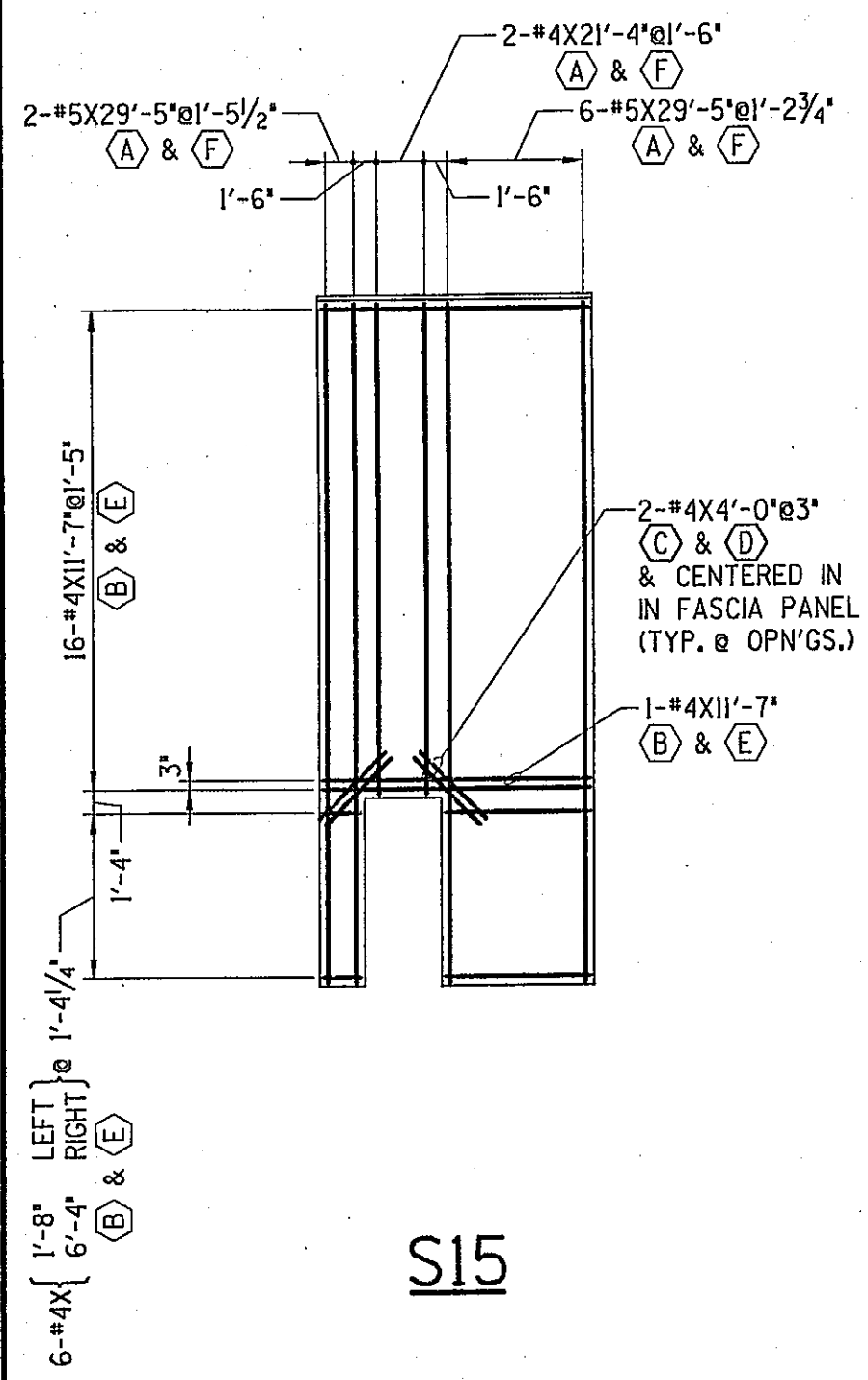


S12

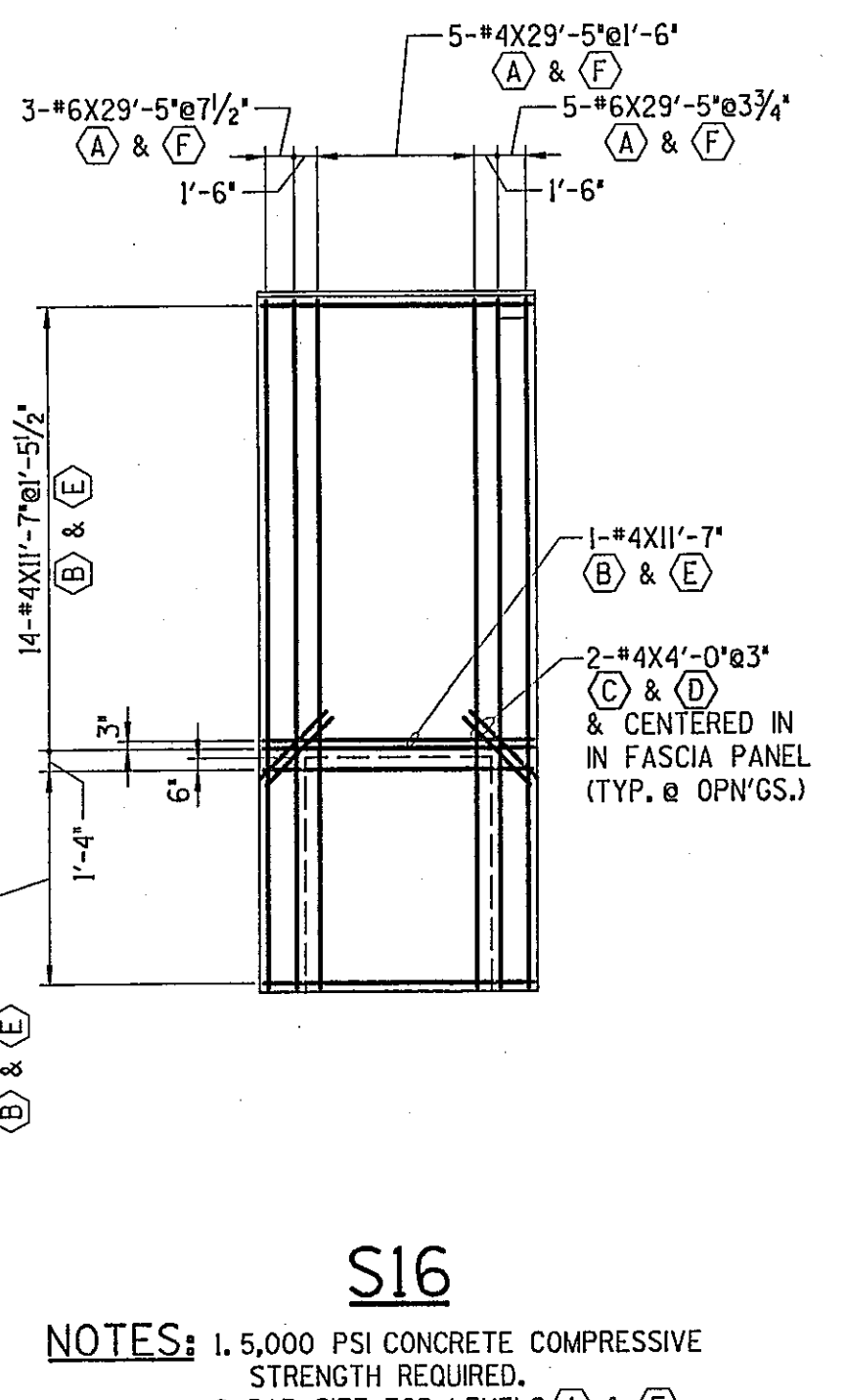


**S13,S14,S17
S18,S21**

NOTES: 1. 5,000 PSI CONCRETE COMPRESSIVE STRENGTH REQUIRED.
2. BAR SIZE FOR LEVELS (A) & (F)

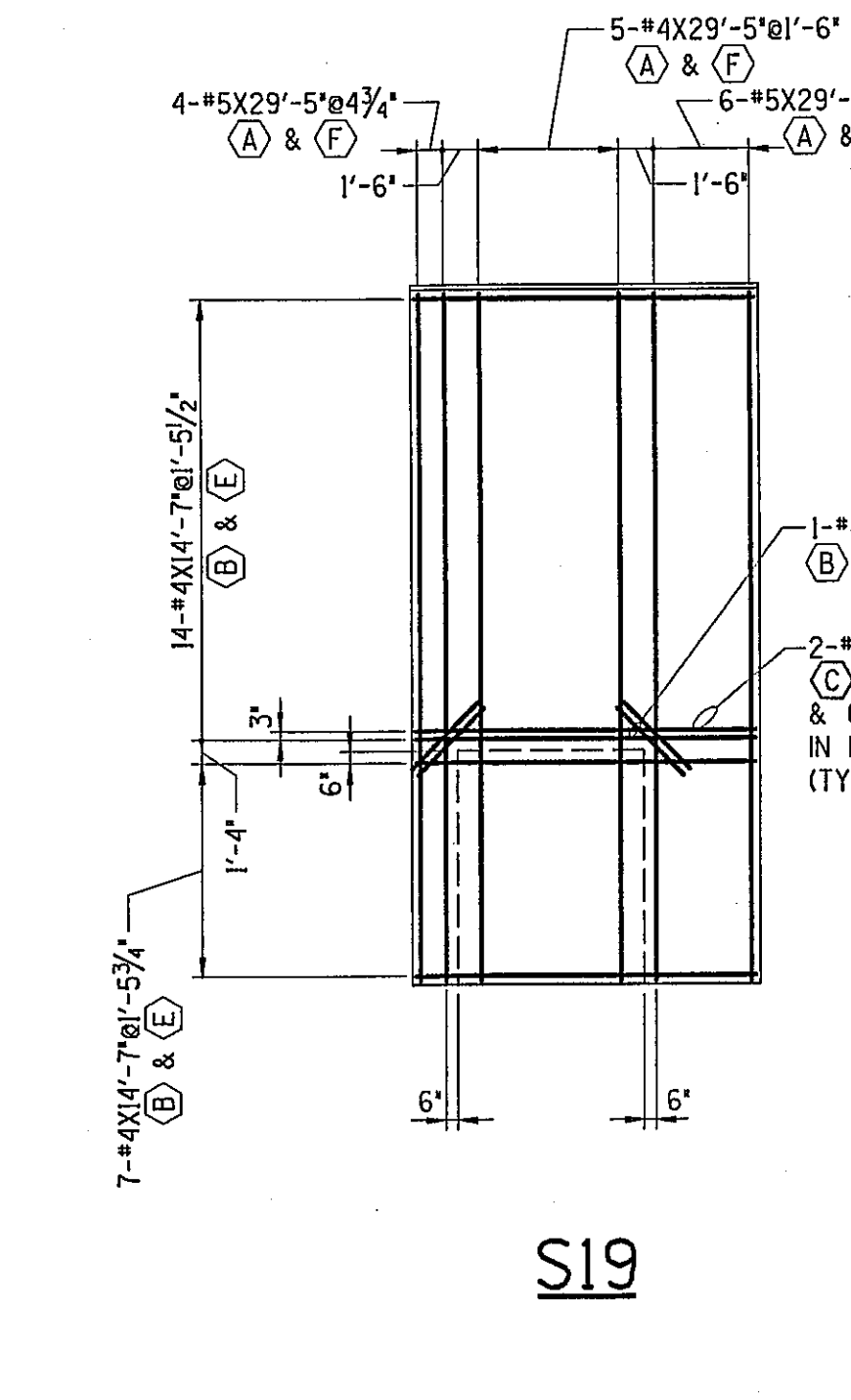


S15

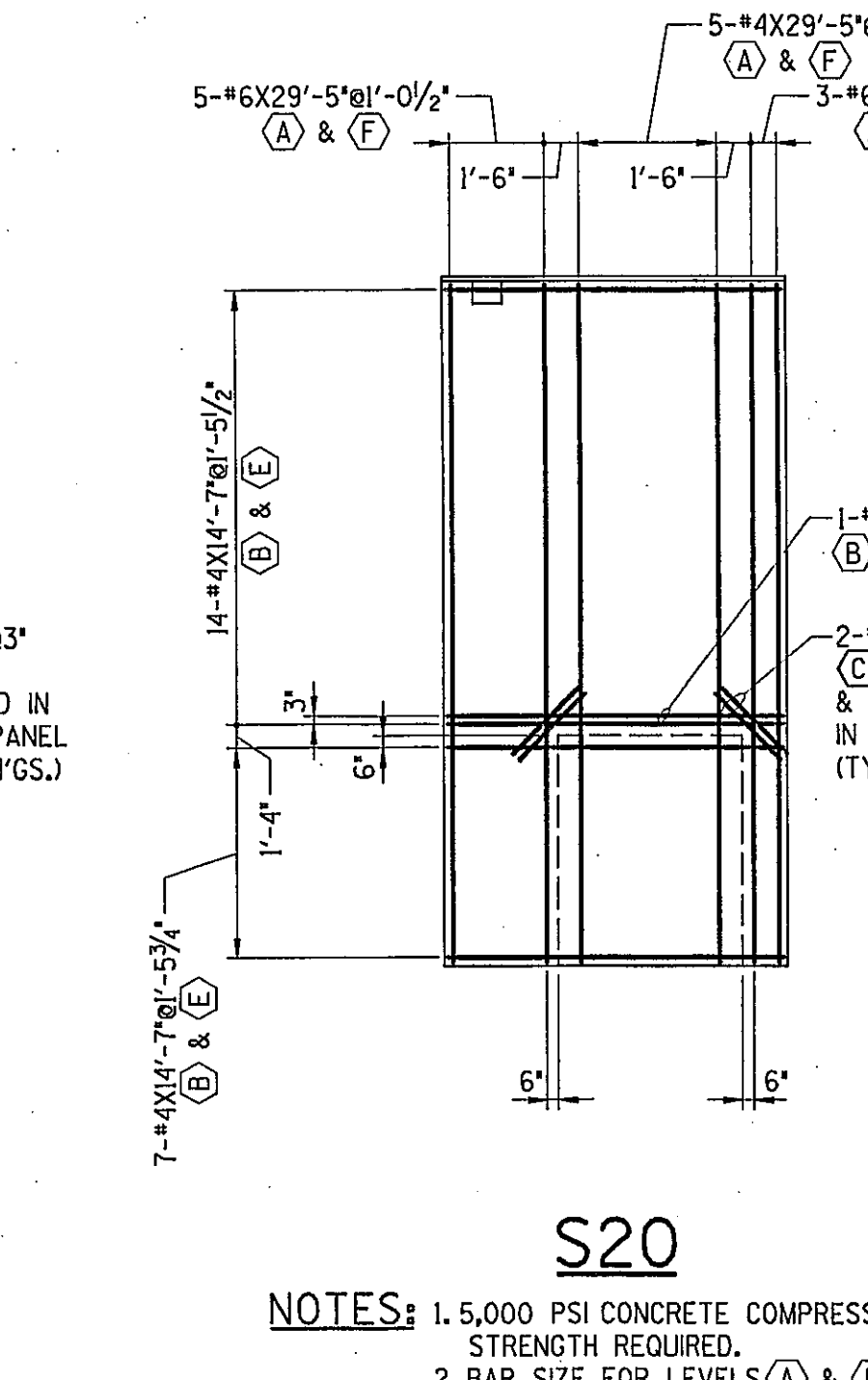


S16

NOTES: 1. 5,000 PSI CONCRETE COMPRESSIVE STRENGTH REQUIRED.
2. BAR SIZE FOR LEVELS (A) & (F)

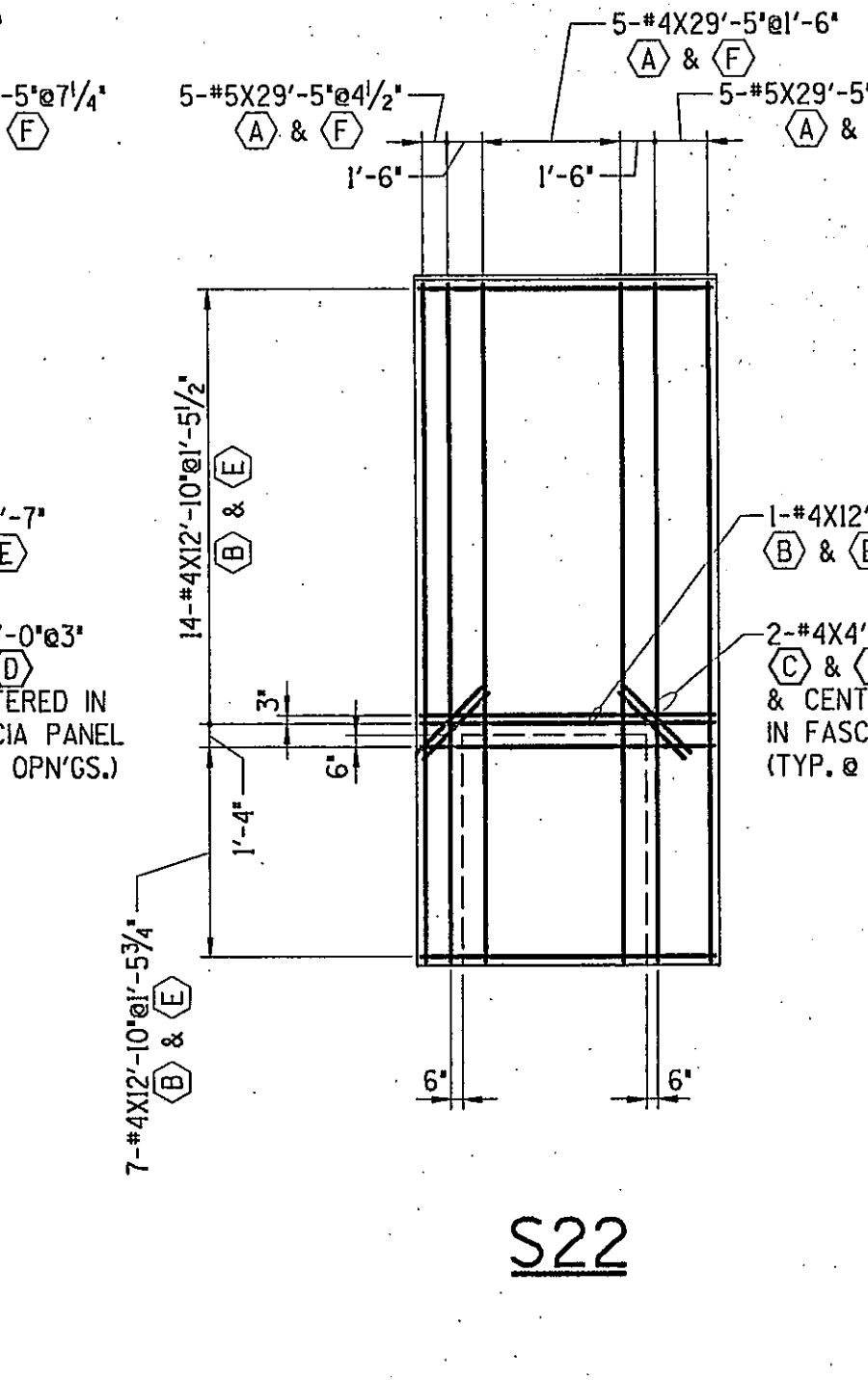


S19



S20

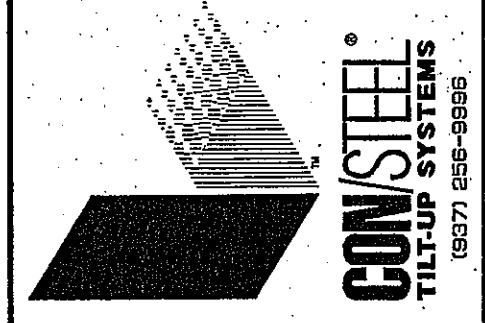
NOTES: 1. 5,000 PSI CONCRETE COMPRESSIVE STRENGTH REQUIRED.
2. BAR SIZE FOR LEVELS (A) & (F)



S22

Handwritten signature

REVISIONS	
NO.	DESCRIPTION
1	RELEASED FOR PERMIT CONSTRUCTION
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RUEDEBUSCH & DEVELOPMENT CONSTRUCTION
MADISON, WISCONSIN 53704
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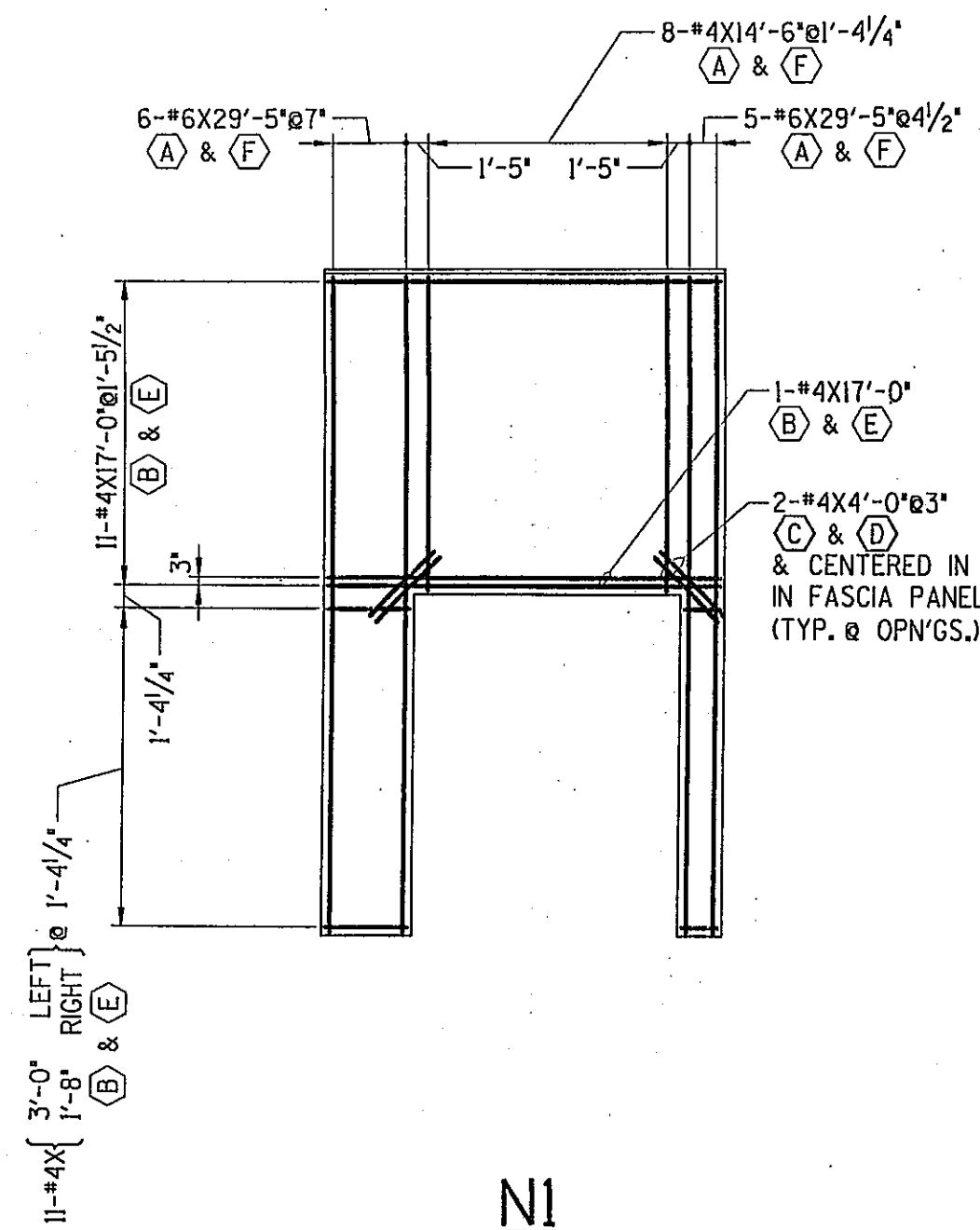
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MADISON, WISCONSIN

AS BUILT



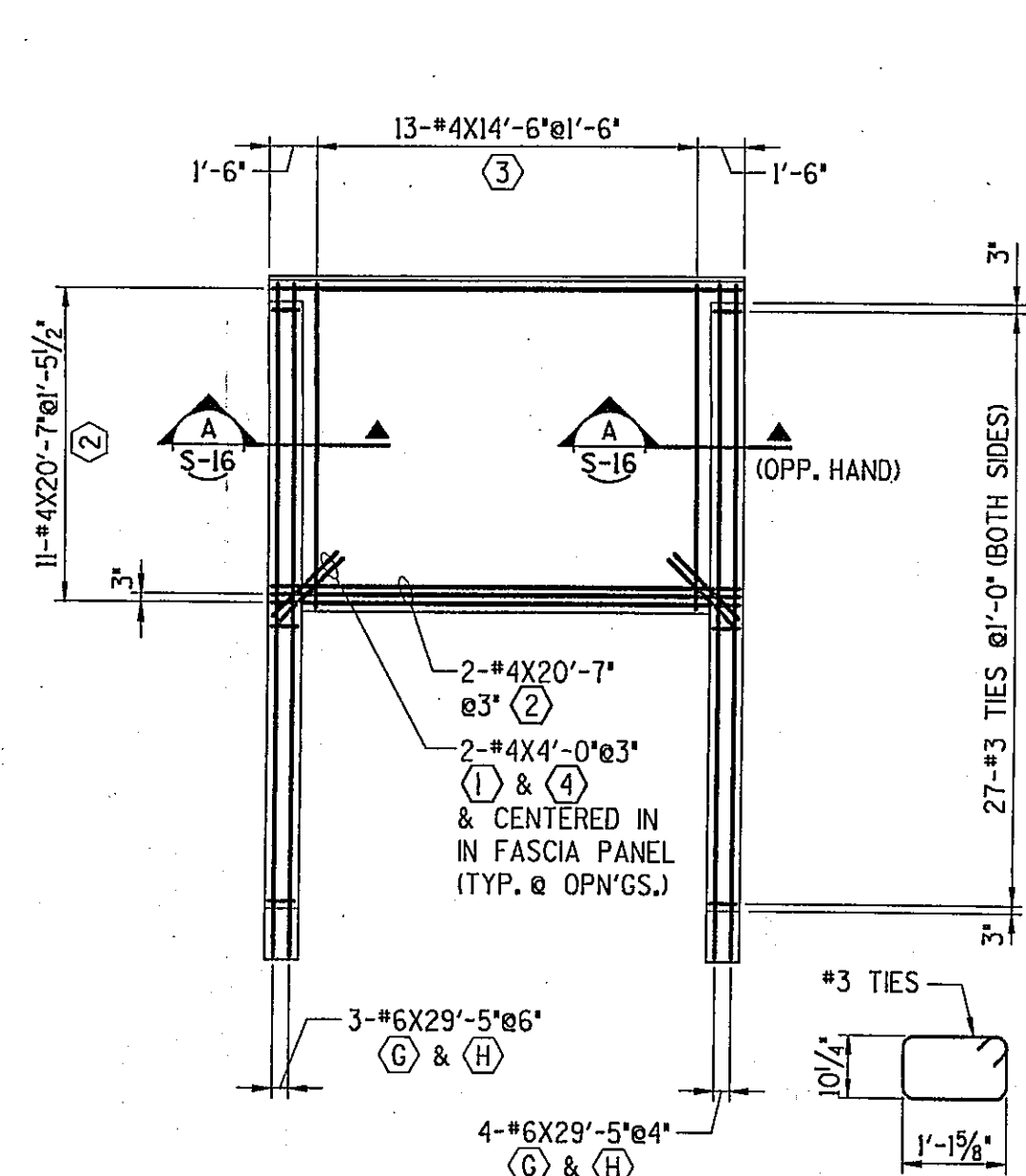
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SHEET TITLE		PANEL REINFORCING	
DESIGNED	RK	JOB NO.	20442
DRAWN	JMH	CHECKED	STR
CHECKED	STR	SHEET NO.	S-15
DATE	OCT 03		



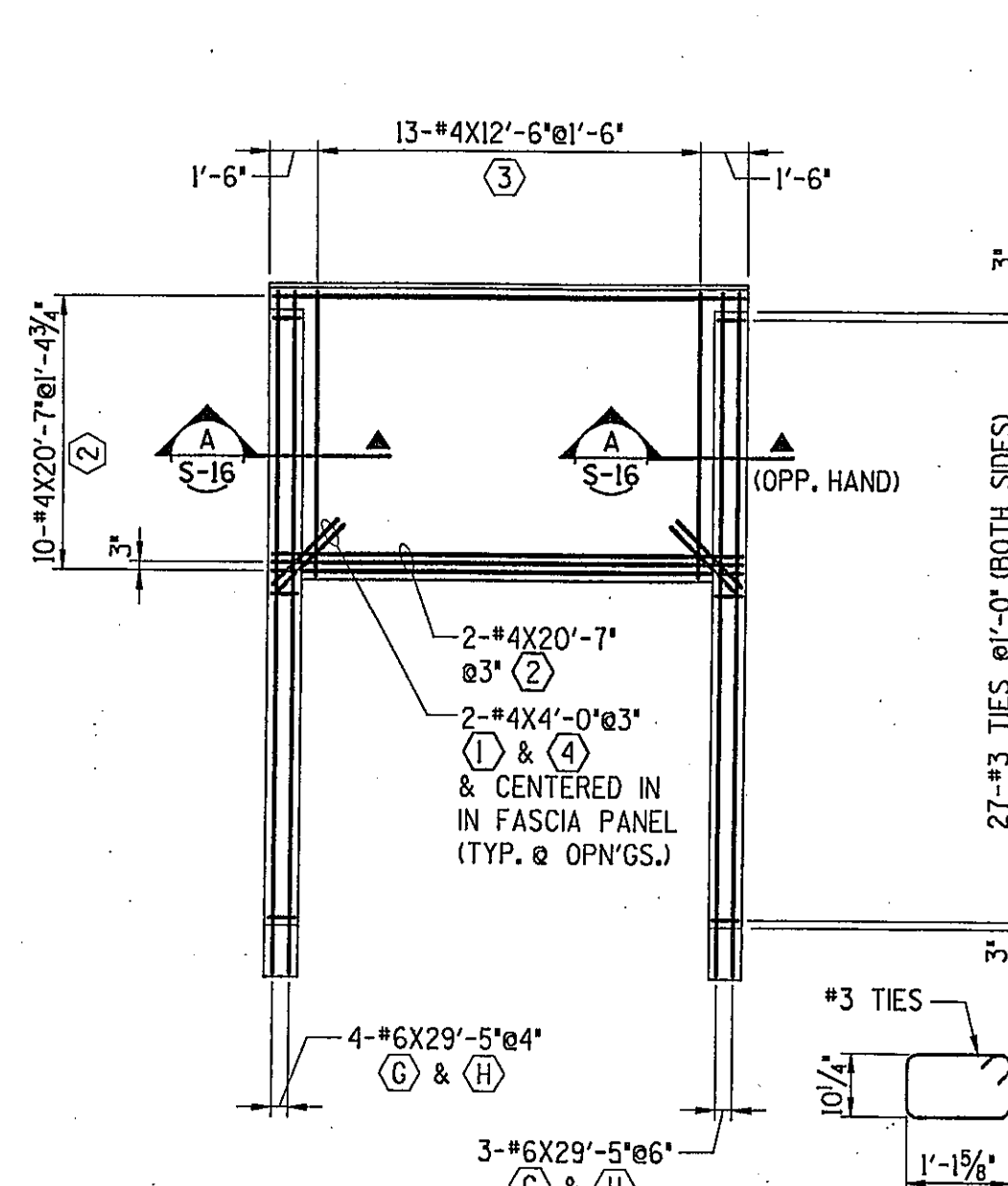
N1

NOTES: 1. 5,000 PSI CONCRETE COMPRESSIVE STRENGTH REQUIRED.
2. BAR SIZE FOR LEVELS (A) & (F)



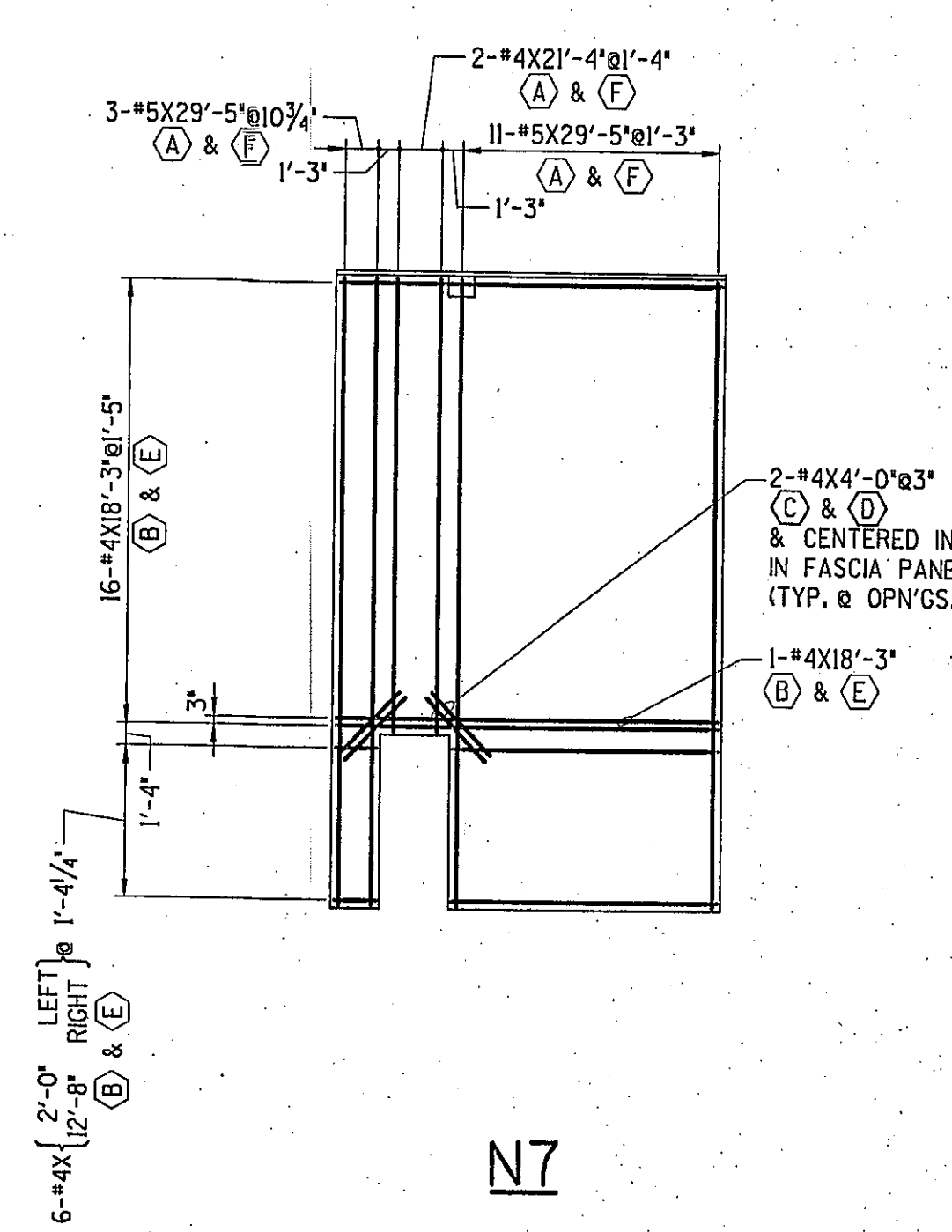
**N2, N4 (AS SHOWN)
N3 (OPP. HAND)**

NOTE: BAR SIZE FOR LEVELS (G) & (H)

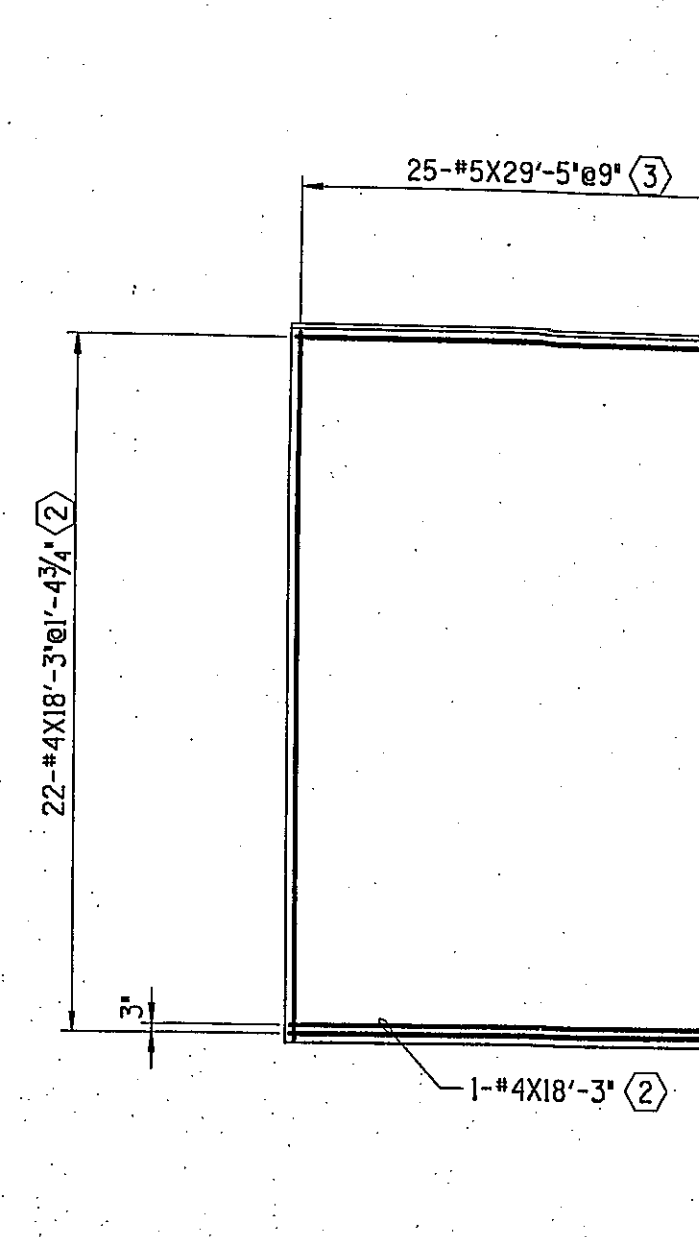


**N5 (AS SHOWN)
N6 (OPP. HAND)**

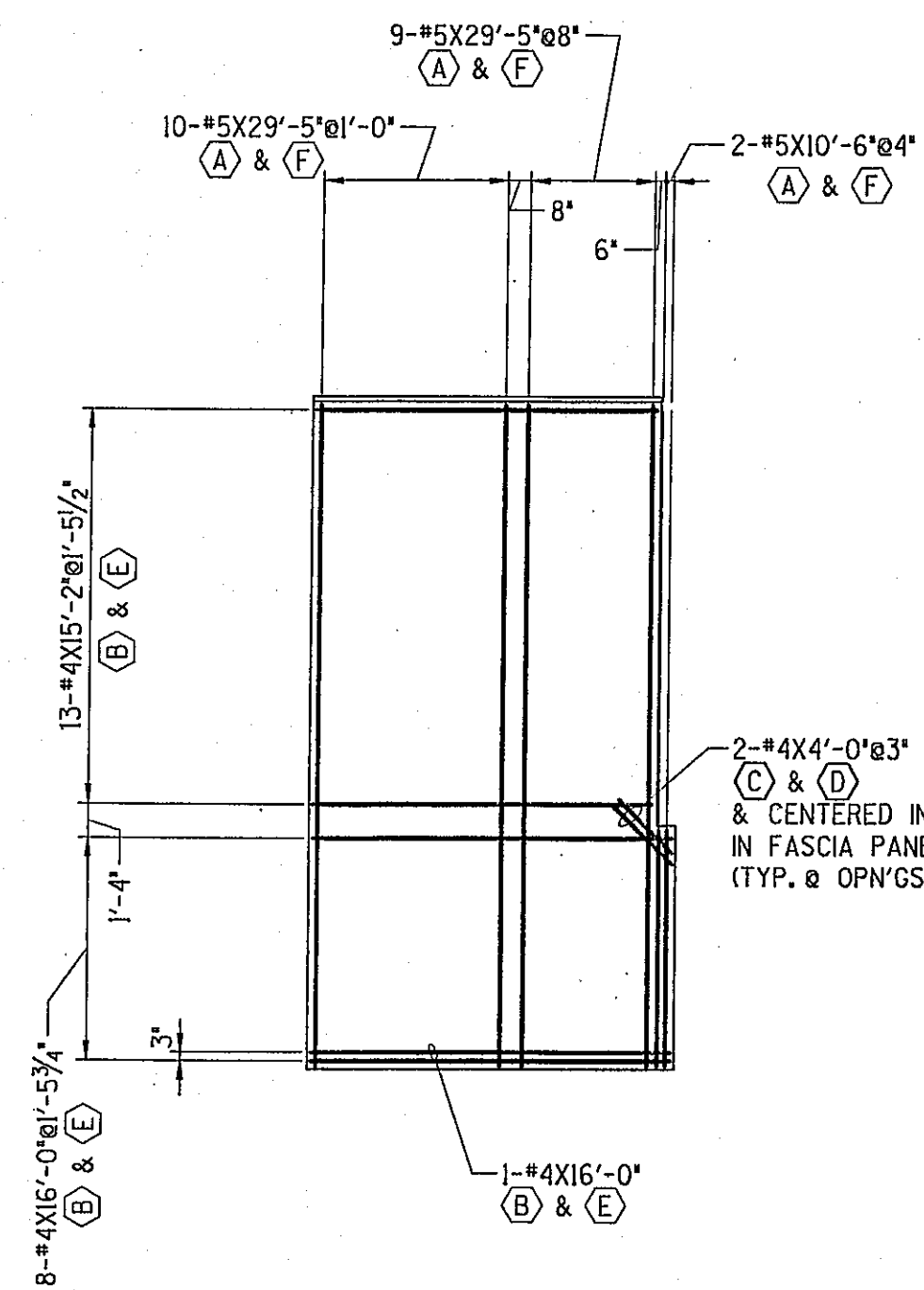
NOTE: BAR SIZE FOR LEVELS (G) & (H)



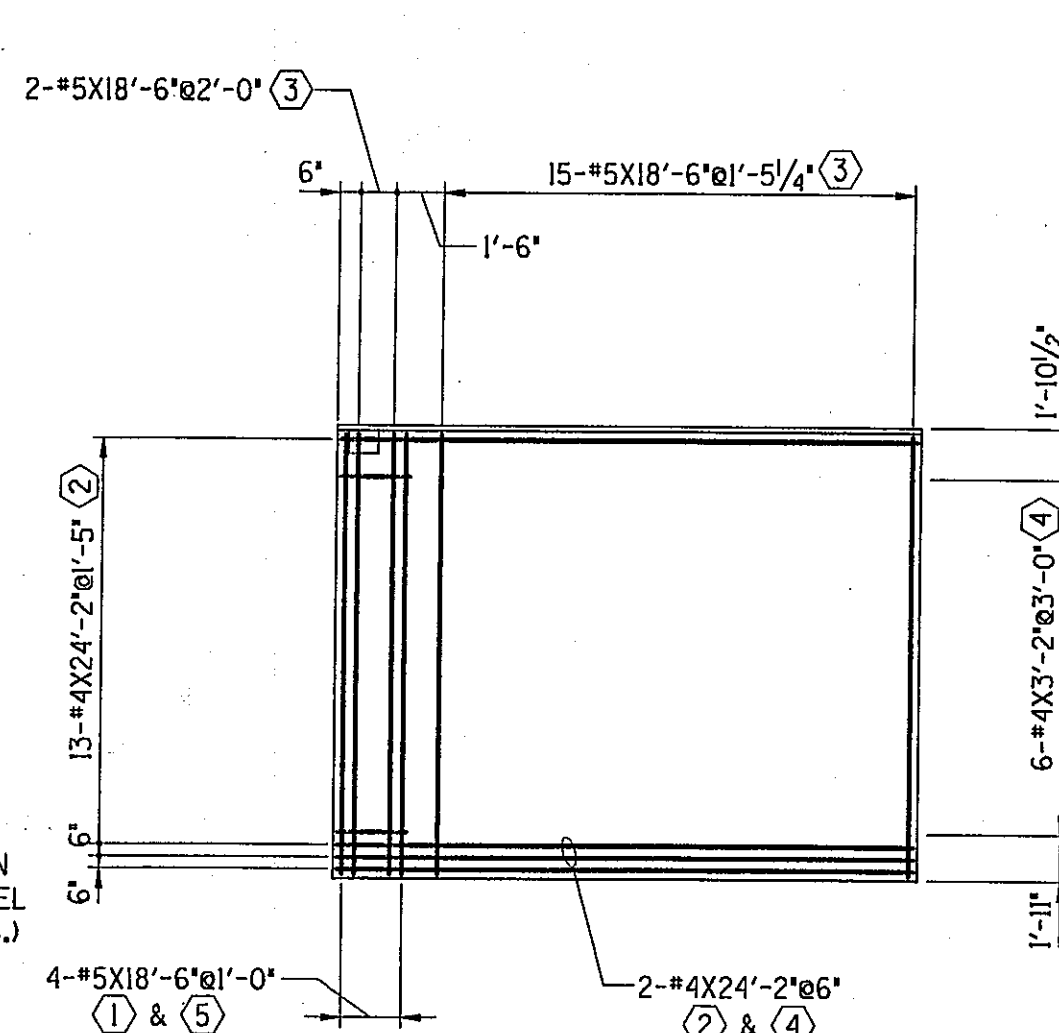
N7



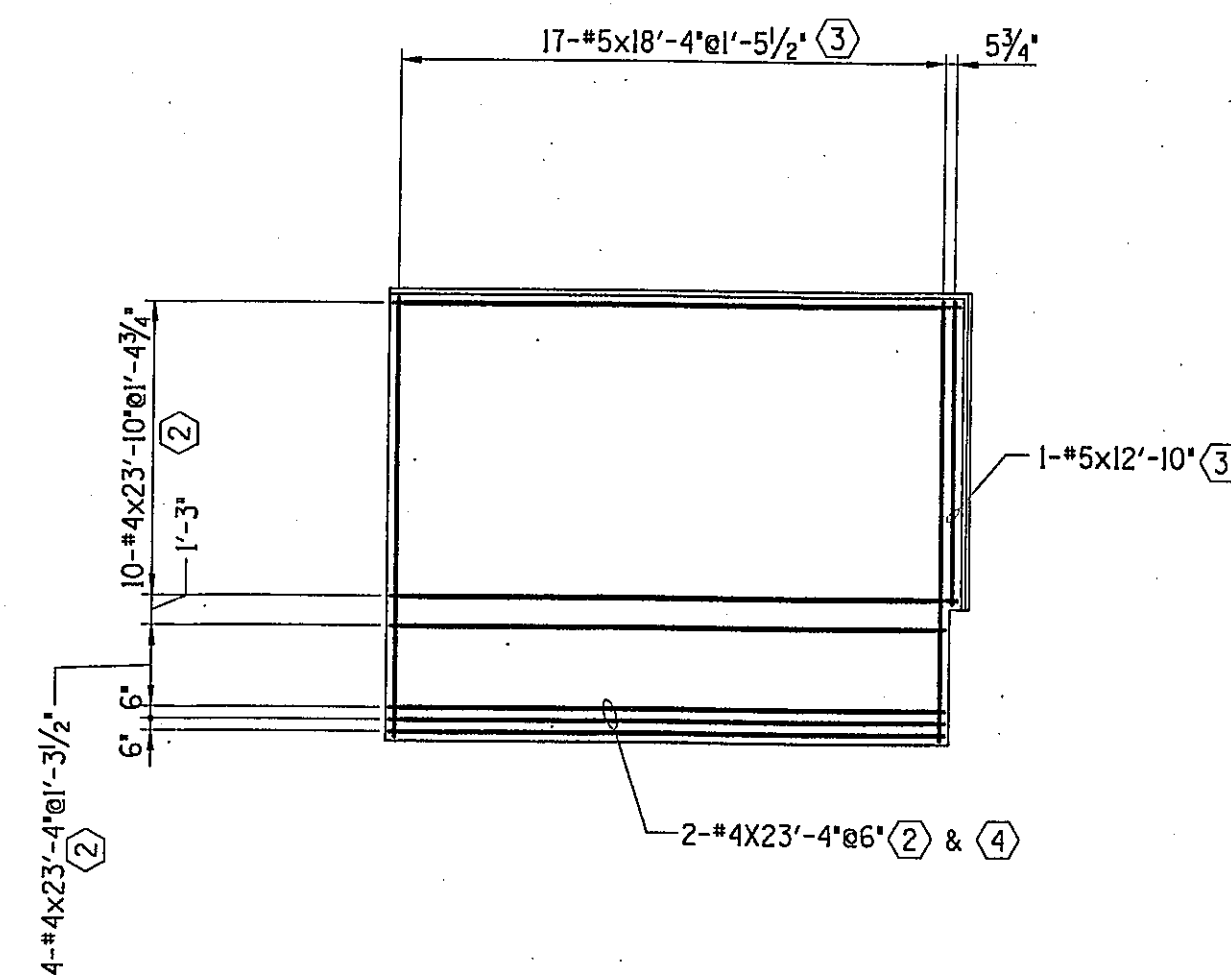
N8



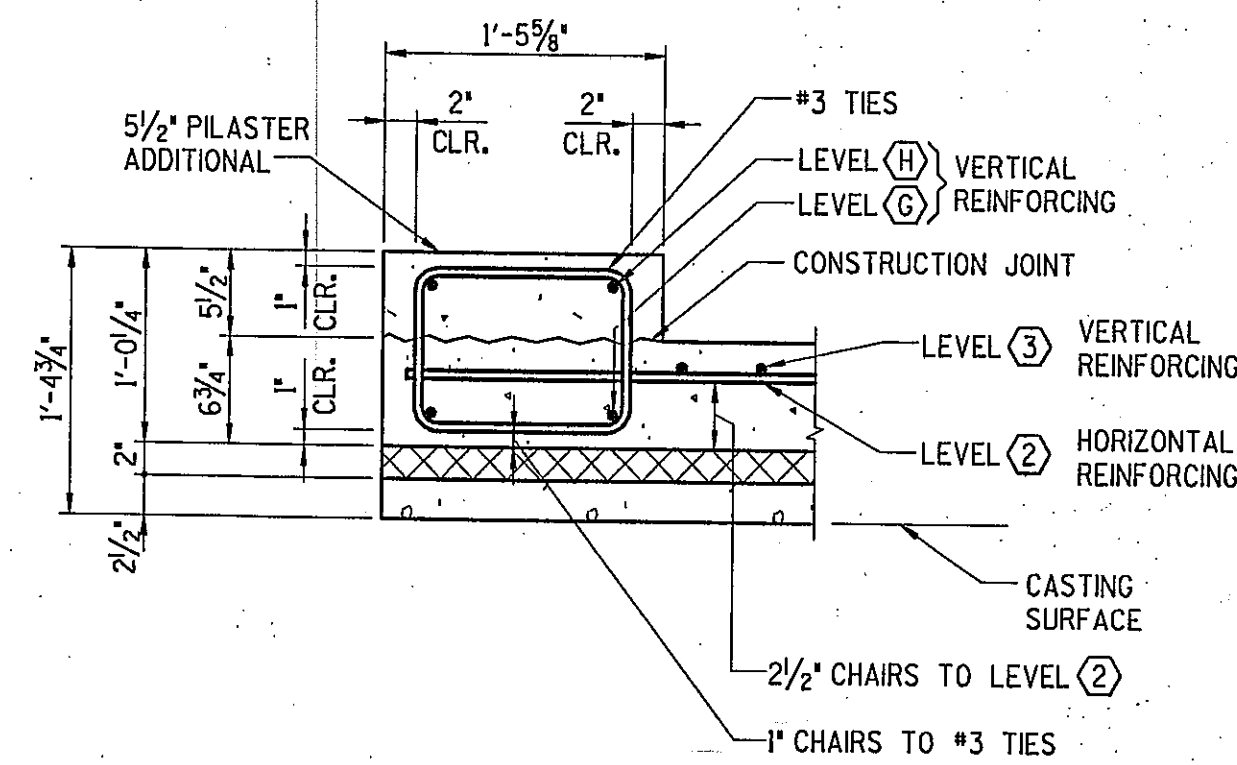
N9



**N10, N12 (AS SHOWN)
N11 (OPP. HAND)**



N13



SECTION **A**
S-16

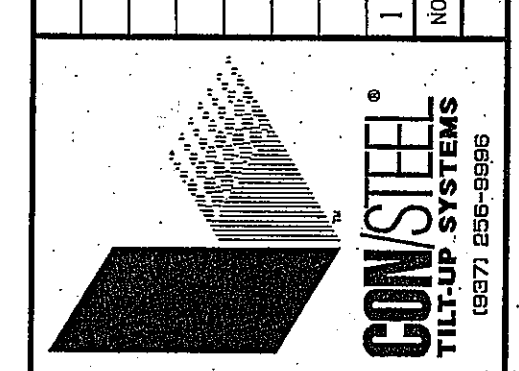
NOTE: SEE PANEL LAYOUT THIS SHEET FOR REQUIRED REINFORCING IN LEVELS (G) & (H)

AS BUILT



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REVISIONS	
NO.	DATE
1	11-7-03

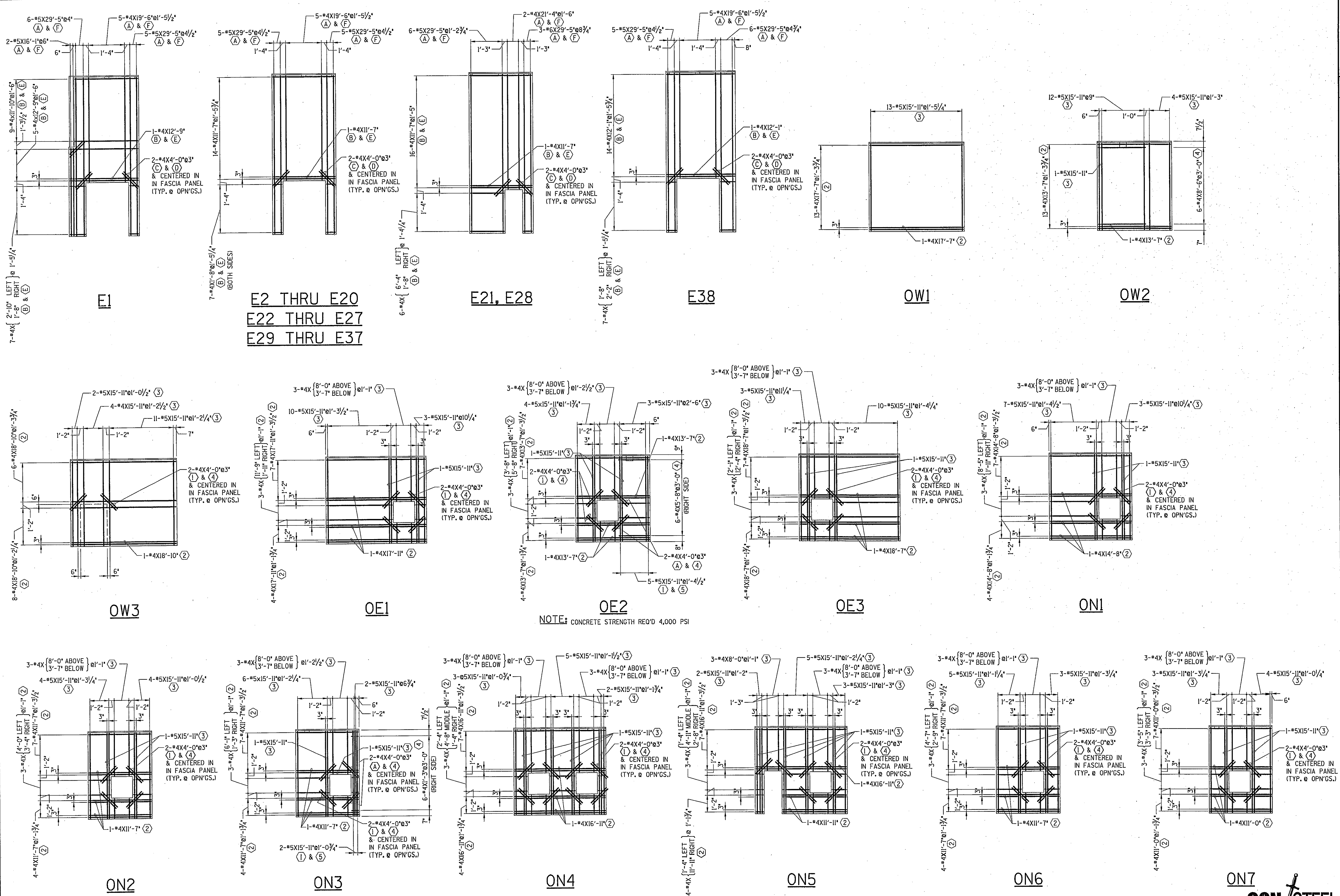


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Dayton, OH 45420-0246
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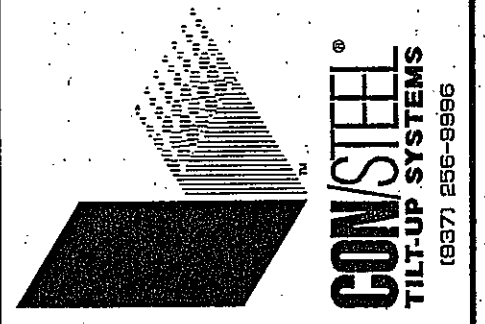
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3901 HANSON ROAD
MADISON, WISCONSIN

SHEET TITLE	
PANEL REINFORCING	
DESIGNED	RK
DRAWN	JMH
CHECKED	STR
DATE	OCT 03
JOB NO.	20442
SHEET NO.	S-16

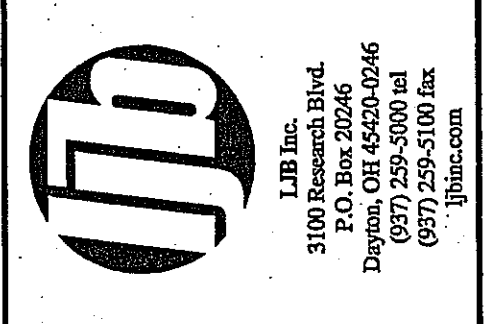


David M. Schmitt

NO.	DATE	DESCRIPTION	STR	BY
1	11-7-03	RELEASED FOR PERMIT CONSTRUCTION	STR	



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 4650 METCAL BLVD. MADISON, WISCONSIN 53704
 PHONE (608) 242-2012 FAX (608) 242-2022

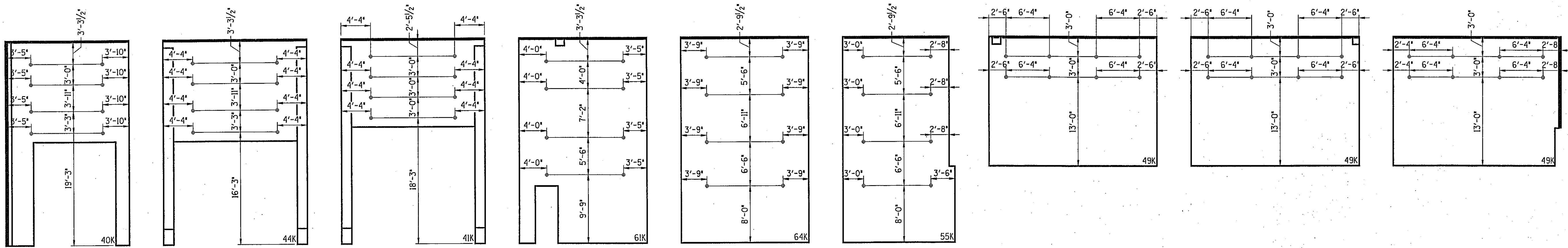


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SHEET TITLE		PANEL REINFORCING	
DESIGNED	JK	JOB NO.	
DRAWN	JMH		20442
CHECKED	STR	SHEET NO.	
DATE	OCT 03		S-17

AS BUILT

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N1

N2,N3,N4

N5,N6

N7

N8

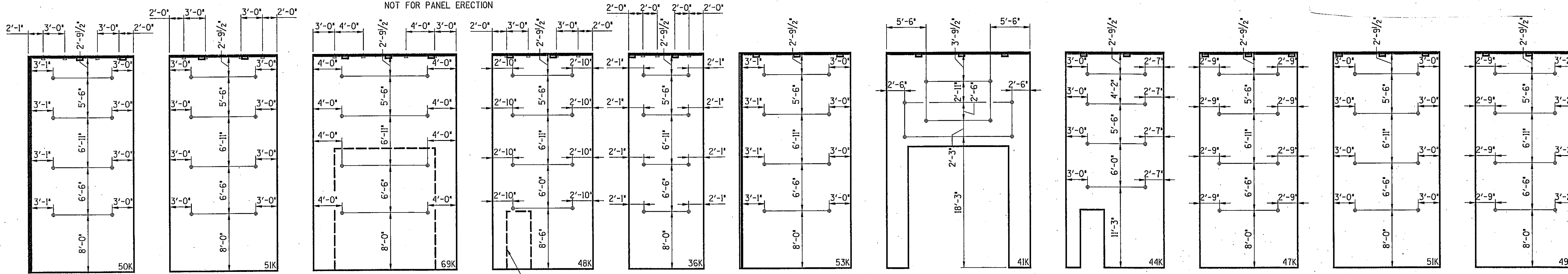
N9

N10

N11,N12

N13

NOTE: EDGE LIFT INSERTS ARE TO BE USED ONLY TO MOVE PANEL IN FUTURE NOT FOR PANEL ERECTION



W1

W2,W3

W4

W5 THRU W8

W9

W10

W11,W18,W25

W12,W19

W13 THRU W17

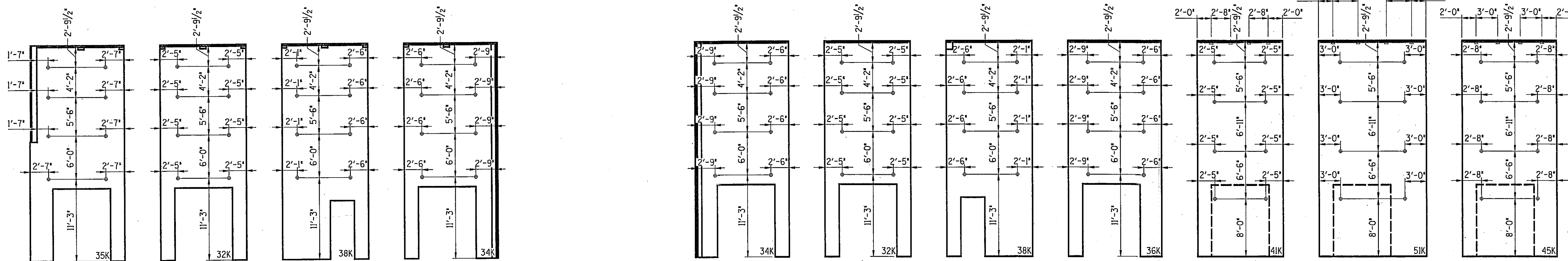
W27,W28

W31

W26 W20 THRU W24 W29,W30

FUTURE OPENING W5 ONLY

NOTE: EDGE LIFT INSERTS ARE TO BE USED ONLY TO MOVE PANEL IN FUTURE NOT FOR PANEL ERECTION



E1

E2 THRU E20

E21

E38

E22 THRU E27

E28

E29 THRU E37

S1

S2,S3,S4

S5,S15

S12

S13,S14,S16

S19,S20

S22

S6 THRU S11

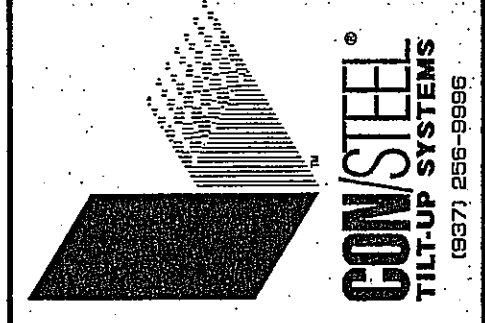
S17,S18,S21

AS BUILT

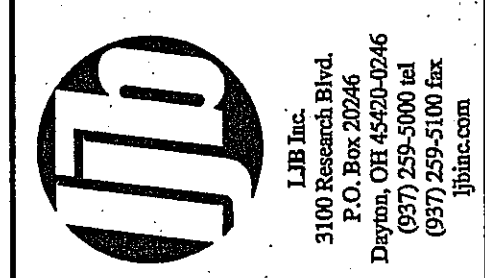


Handwritten notes and signatures at the top right of the sheet.

REVISIONS	
NO.	DATE
1	11-7-03



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SHEET TITLE		20442
WALL PANEL INSERTS		
DESIGNED	STR	
DRAWN	JMH	
CHECKED	STR	
DATE	NOV, 03	

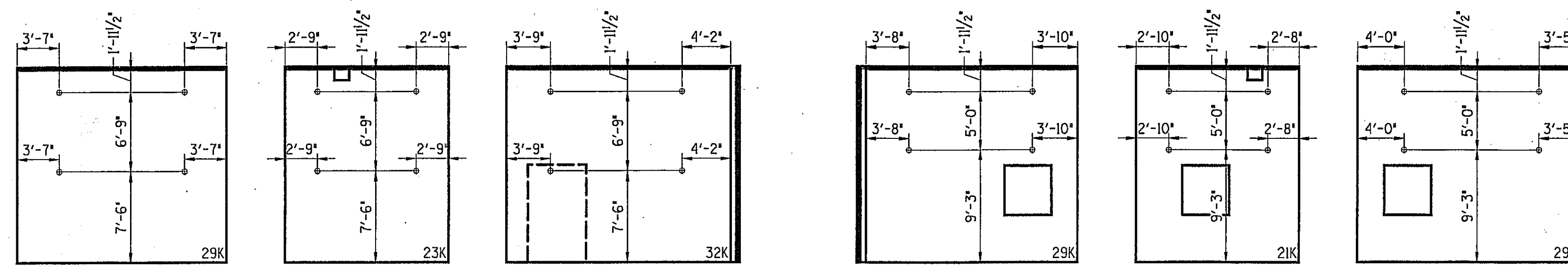
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LIFT INSERT NOTES

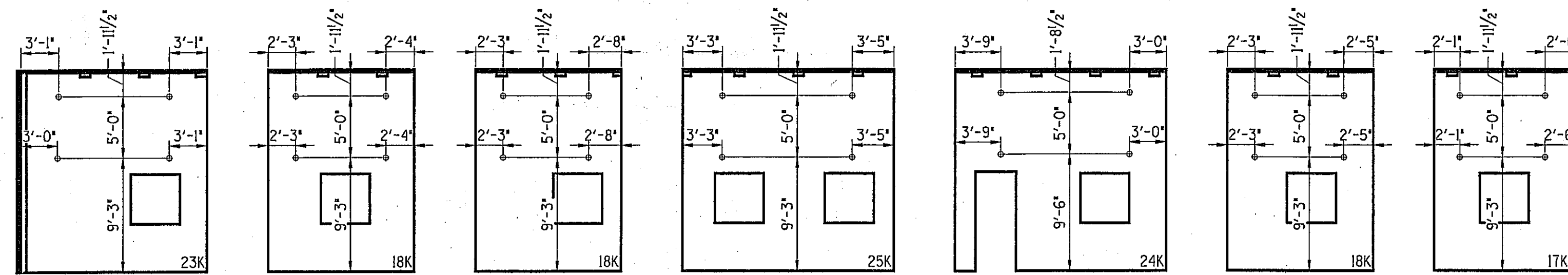
- SYMBOLS:
 - ⊕ INDICATES 1/2" COIL INSERT
 - ⊙ INDICATES PANEL LIFTING INSERT.
 - △ INDICATES PANEL EDGE LIFT INSERT SUPER-LIFT III
- MAXIMUM APPLIED STATIC WORKING LOADS TO LIFT INSERTS:

INSERTS	SHEAR (LBS.)	TENSION (LBS.)
6 3/4"	8,600	7,500
5 1/2"	8,000	6,000
EDGE LIFTS		17,500

LIFTING INSERT CAPACITIES MUST MEET OR EXCEED THESE LOADS AND MUST HAVE A FACTOR OF SAFETY SUFFICIENT TO ALLOW FOR NORMAL DYNAMIC LOADS IMPOSED DURING LIFT.
- LIFTING INSERT HEIGHT SHALL EQUAL STRUCTURAL PANEL THICKNESS, UNLESS NOTED. NO LIFTING INSERT SHALL BE PLACED CLOSER THAN 15" TO ANY PANEL EDGE, BLOCKOUT OR OPENING.
- WALL PANELS SHALL NOT BE LIFTED UNTIL THE CONCRETE HAS ATTAINED A COMPRESSIVE STRENGTH OF 2,500 PSI AND A MINIMUM FLEXURAL STRENGTH OF 500 PSIA DETERMINED BY STANDARD BEAMS FIELD CURED AND BROKEN IN ACCORDANCE WITH ASTM C78.
- PANEL WEIGHTS SHOWN ARE FOR PANEL ONLY. NO ALLOWANCE HAS BEEN MADE FOR RIGGING WEIGHT.



OW1 OW2 OW3 OE1 OE2 OE3



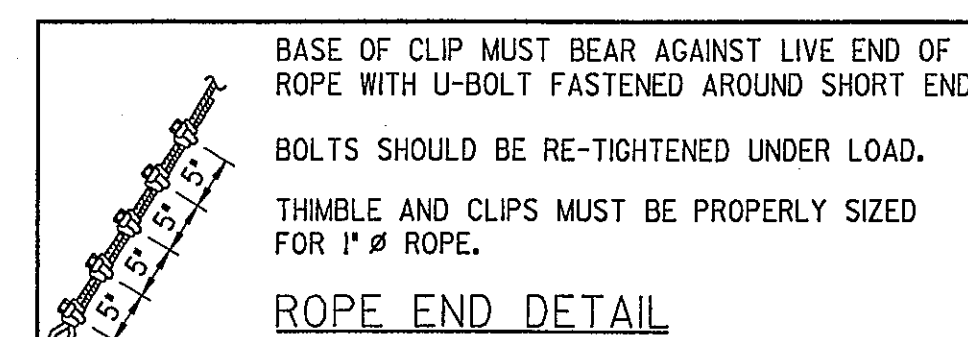
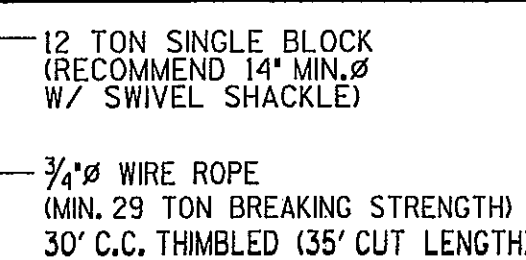
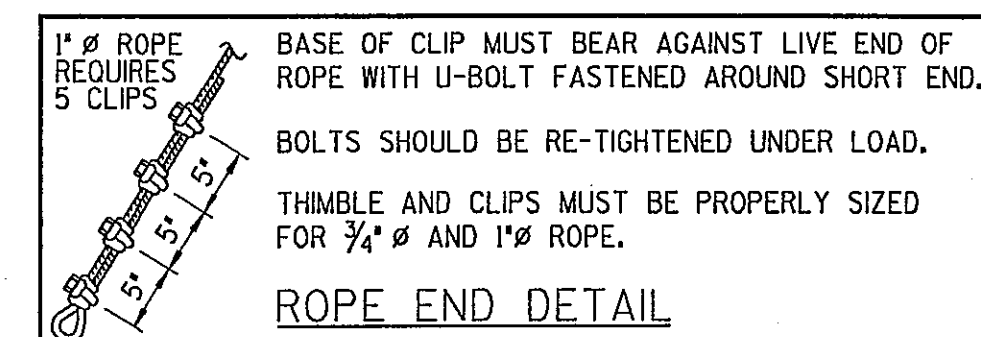
ON1 ON2 ON3 ON4 ON5 ON6 ON7

WALL PANEL CONCRETE VOLUME SCHEDULE					
WALL PANEL(S)	NUMBER PANELS	FASCIA		STRUCTURAL	
		I PNL	TOTAL	I PNL	TOTAL
N1	1	2.65	2.65	7.15	7.15
N2, N3, N4	3	2.76	8.28	8.80	26.40
N5, N6	2	2.48	4.96	8.05	16.10
N7	1	4.06	4.06	10.96	10.96
N8	1	4.27	4.27	11.54	11.54
N9	1	3.63	3.63	9.81	9.81
N10, N11, N12	3	3.27	9.81	8.82	26.46
N13	1	3.21	3.21	8.67	8.67
W1	1	3.34	3.34	9.02	9.02
W2, W3	2	3.45	6.90	9.25	18.50
W4	1	4.60	4.60	12.34	12.34
W5, W6, W7, W8	4	3.22	12.88	8.63	34.52
W9	1	2.40	2.40	6.44	6.44
W10	1	3.53	3.53	9.54	9.54
W11, W18, W25	3	2.77	8.31	7.41	22.23
W12, W19, W26	3	2.93	8.79	7.86	23.58
W13 THRU W17, W20 THRU W24	10	3.14	31.40	8.42	84.20
W27, W28, W29, W30	4	3.41	13.64	9.14	36.56
W31	1	3.23	3.23	8.73	8.73
E1	1	2.32	2.32	6.27	6.27
E2 THRU E20	19	2.14	40.66	5.74	109.06
E22 THRU E27	6	2.14	12.84	5.74	34.44
E29 THRU E37	9	2.14	19.26	5.74	51.66
E21, E28	2	2.55	5.10	6.83	13.66
E38, S1	2	2.28	4.56	6.15	12.30
S2, S3, S4	3	2.14	6.42	5.74	17.22
S5, S15	2	2.55	5.10	6.83	13.66
S6, S7, S8, S9, S10, S11	6	2.14	12.84	5.74	34.44
S12	1	2.38	2.38	6.37	6.37
S13	1	2.73	2.73	7.38	7.38
S14, S16, S17, S18, S21	5	2.76	13.80	7.39	36.95
S19, S20	2	3.45	6.90	9.25	18.50
S22	1	3.03	3.03	8.13	8.13
ON1	1	1.77	1.77	3.90	3.90
ON2, ON3, ON6	3	1.39	4.17	3.01	9.03
ON4	1	1.94	1.94	4.21	4.21
ON5	1	1.86	1.86	4.02	4.02
ON7	1	1.32	1.32	2.89	2.89
OW1	1	2.26	2.26	4.92	4.92
OW2	1	1.77	1.77	3.83	3.83
OW3	1	2.45	2.45	5.39	5.39
OE1	1	2.19	2.19	4.82	4.82
OE2	1	1.64	1.64	3.56	3.56
OE3	1	2.28	2.28	4.94	4.94
TOTAL VOLUME			795.7	310.0	1105.8

NOTE: VOLUME IS IN CUBIC YARDS.

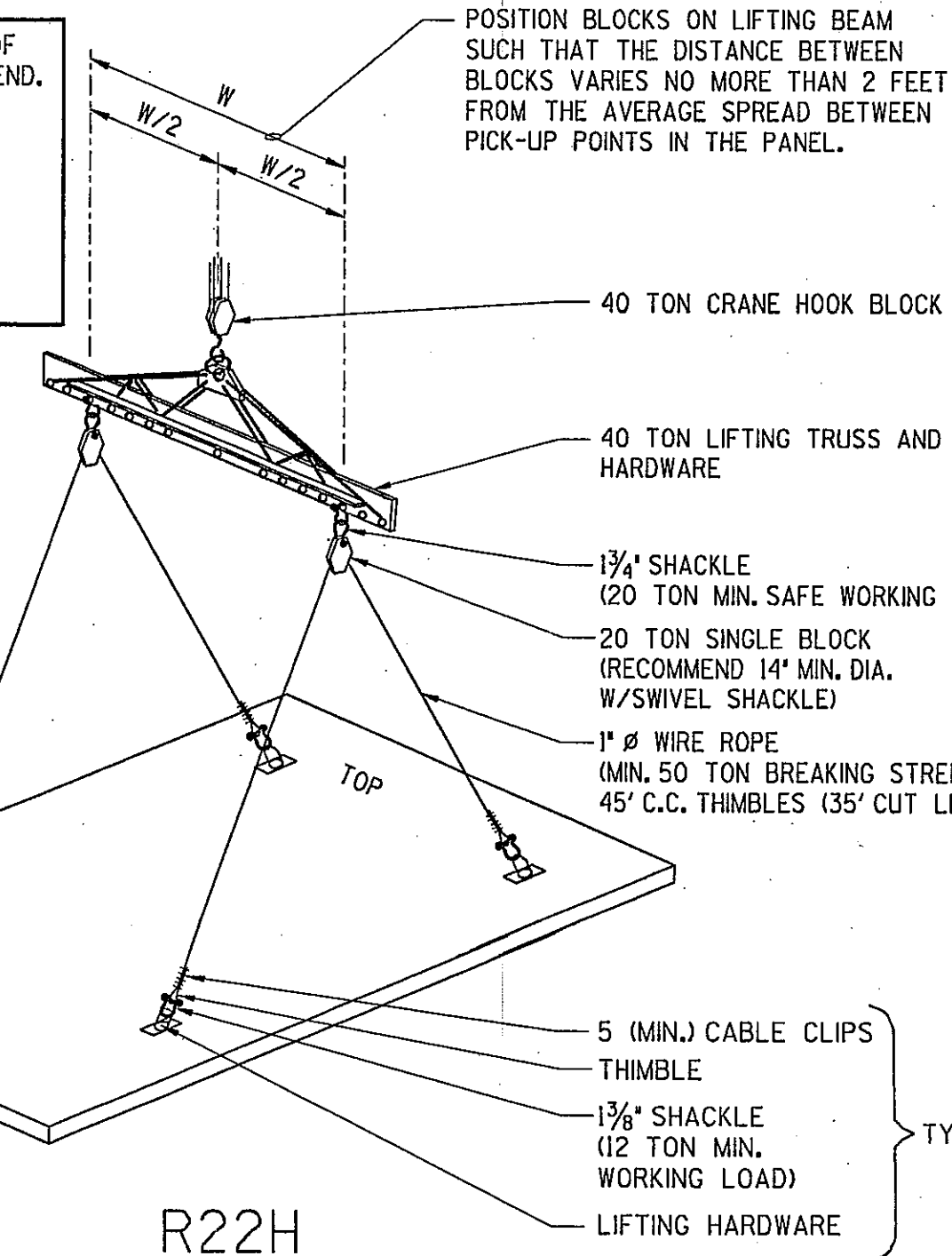
NOTES:

- INSPECT ALL RIGGING REGULARLY FOR SIGNS OF WEAR OR BREAKAGE.
- CHECK AND TIGHTEN CABLE CLIPS REGULARLY AS ROPES UNDER HEAVY LOADS ARE GRADUALLY REDUCED IN DIAMETER.
- LENGTHS AND SIZES SHOWN WILL ACCOMMODATE WALL PANELS TO 40 TONS IN WEIGHT WITH PICK-UP POINTS IN NORMAL CONFIGURATION.
- RECOMMEND WIRE ROPE TO BE 6X25 CLASSIFICATION IMPROVED PLOW STEEL WITH WIRE ROPE CORE.
- VERIFY LIFT INSERT CAPACITIES.
- ALL SIZES SHOWN ARE TYPICAL FOR LEFT AND RIGHT SETS OF RIGGING. (SYMMETRICAL ABOUT CRANE HOOK BLOCK)



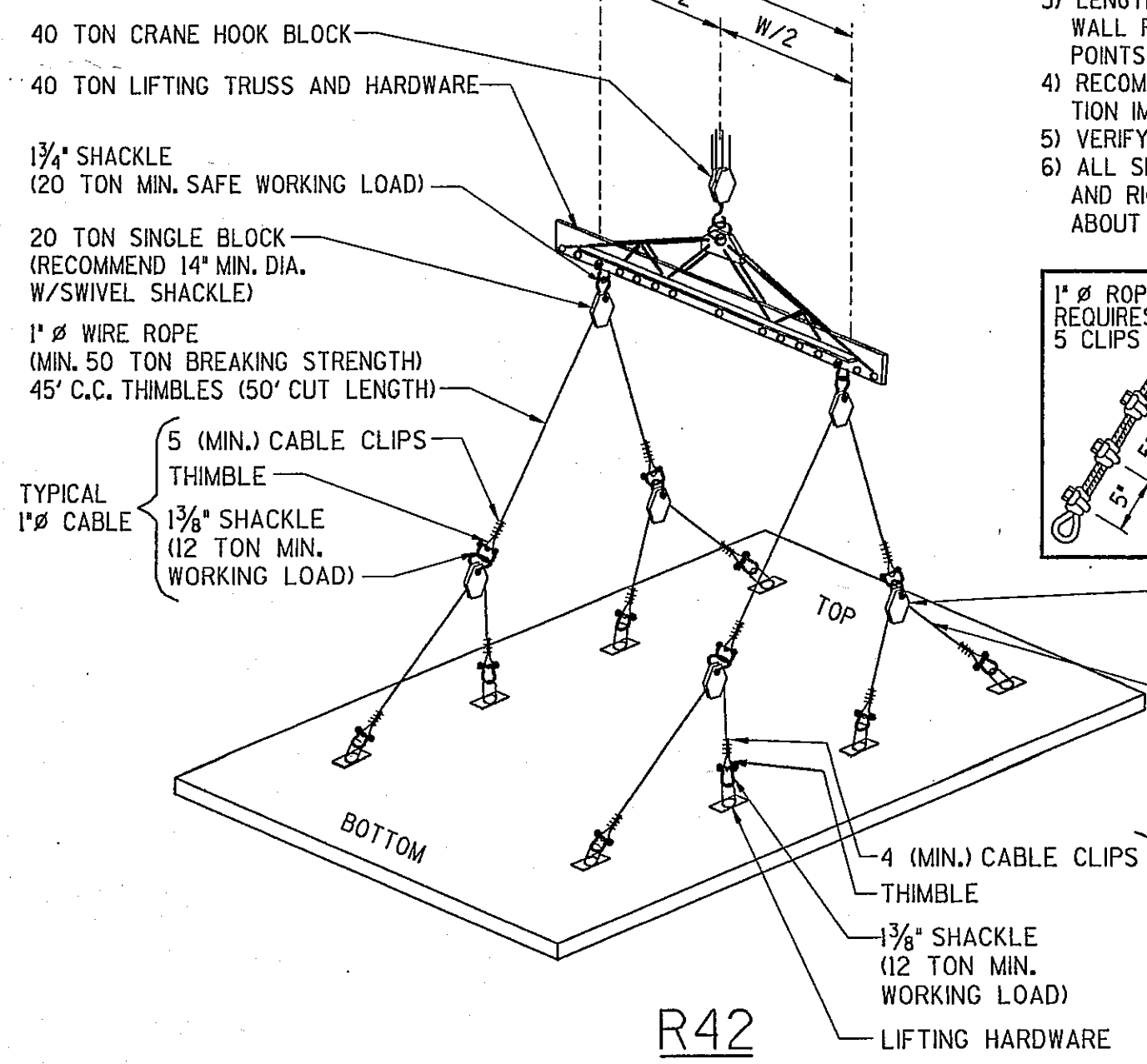
NOTES:

- INSPECT ALL RIGGING REGULARLY FOR SIGNS OF WEAR OR BREAKAGE.
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- ALL SIZES SHOWN ARE TYPICAL FOR LEFT AND RIGHT SETS OF RIGGING. (SYMMETRICAL ABOUT CRANE HOOK BLOCK)



R22H

POSITION BLOCKS ON LIFTING BEAM SUCH THAT THE DISTANCE BETWEEN BLOCKS VARIES NO MORE THAN 2 FEET FROM THE AVERAGE SPREAD BETWEEN PICK-UP POINTS IN THE PANEL.



R42

AS BUILT

CON/STEEL ALLIANCE

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SHEET TITLE	WALL PANEL INSERTS
DESIGNED	STR
DRAWN	JMH
CHECKED	STR
DATE	NOV. 03
JOB NO.	20
SHEET NO.	S-19