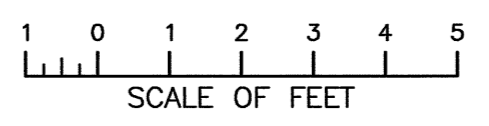


GUARD POST LAYOUT PLAN

NOTES

- 1. FOR GENERAL PLAN, SEE DRAWING 423-D-698.
- 2. FOR DOOR AND LOUVER SCHEDULES, SEE DRAWING 423-D-814.
- 3. FOR ELECTRICAL EQUIPMENT SEE DRAWING 423-D-826.
- 4. FOR REINFORCED CONCRETE BUILDING FOUNDATION AND REFERENCE DRAWINGS, SEE 423-D-815.

FLOOR PLAN - EL.162.00



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BUREAU OF RECLAMATION
COLORADO RIVER FRONT WORK AND LEVEE SYSTEM - CALIFORNIA
DROP 2 STORAGE RESERVOIR
CANAL AND STRUCTURES
ARCHITECTURAL
CONTROL BUILDING
FLOOR PLAN

DESIGNED: *[Signature]* CHECKED: *Paul M. Rucke*
DRAWN: *[Signature]* TECH. APPR: *Paul M. Rucke, P.E.*
APPROVED: *[Signature]* P.E.
PLAN STRUCTURES GROUP

DENVER, COLORADO SHEET 1 OF 1 2008-04-17 **423-D-809**

DATE AND TIME PLOTTED: APR 15, 2008 10:15
 PLOTTED BY: Not Plotted
 CAL SYSTEM 16.08
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D
C
B
A

D

C

B

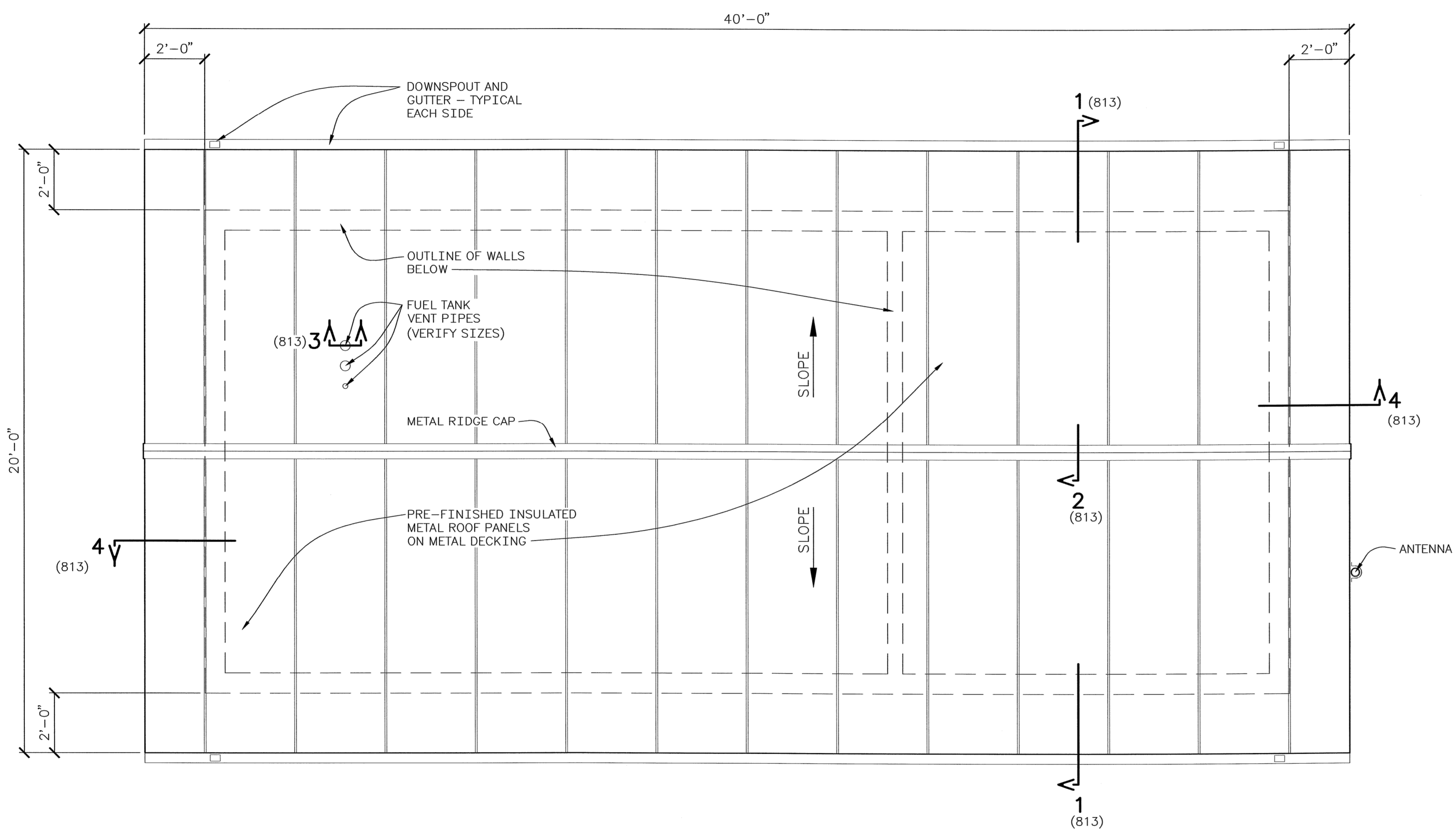
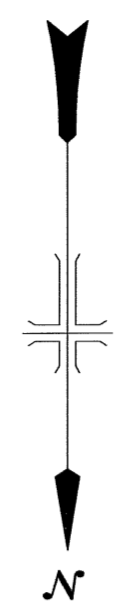
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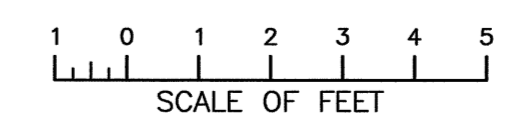
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A



NOTE
 1. FOR FLOOR PLAN SEE 423-D-809.

ROOF PLAN



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 BUREAU OF RECLAMATION

COLORADO RIVER FRONT WORK AND LEVEE SYSTEM - CALIFORNIA
DROP 2 STORAGE RESERVOIR
CANAL AND STRUCTURES
 ARCHITECTURAL
CONTROL BUILDING
ROOF PLAN

DESIGNED J. NEWARK CHECKED Paul M. Rube
 DRAWN J. NEWARK TECH. APPR. Paul M. Rube P.E.
 APPROVED [Signature] P.E.
 PLAN STRUCTURES GROUP

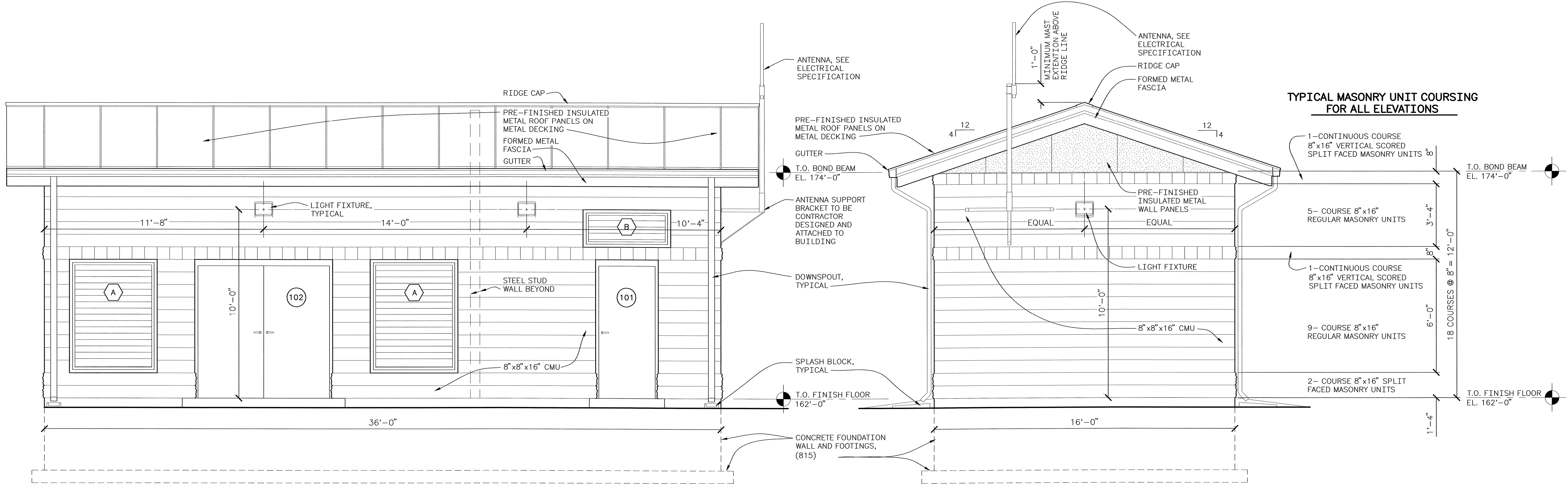
DENVER, COLORADO 2008-04-17
 SHEET 1 OF 1 **423-D-810**

DATE AND TIME PLOTTED
 APRIL 15, 2008 10:15
 PLOTTED BY
 Not Plotted

CAD SYSTEM
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 CAD FILENAME
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D

C

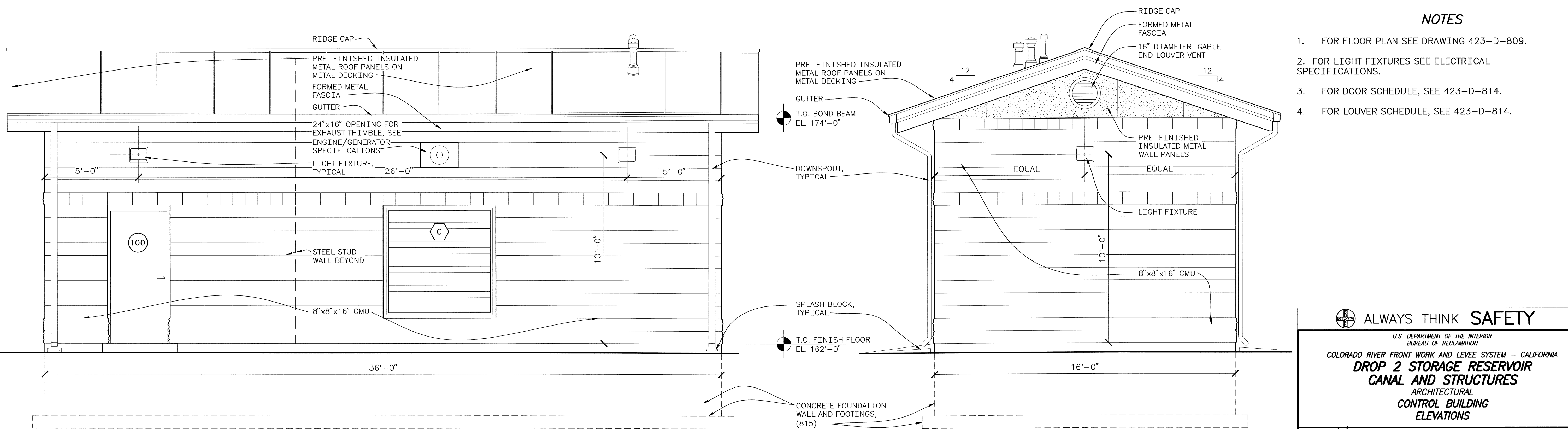


NORTH ELEVATION

WEST ELEVATION

B

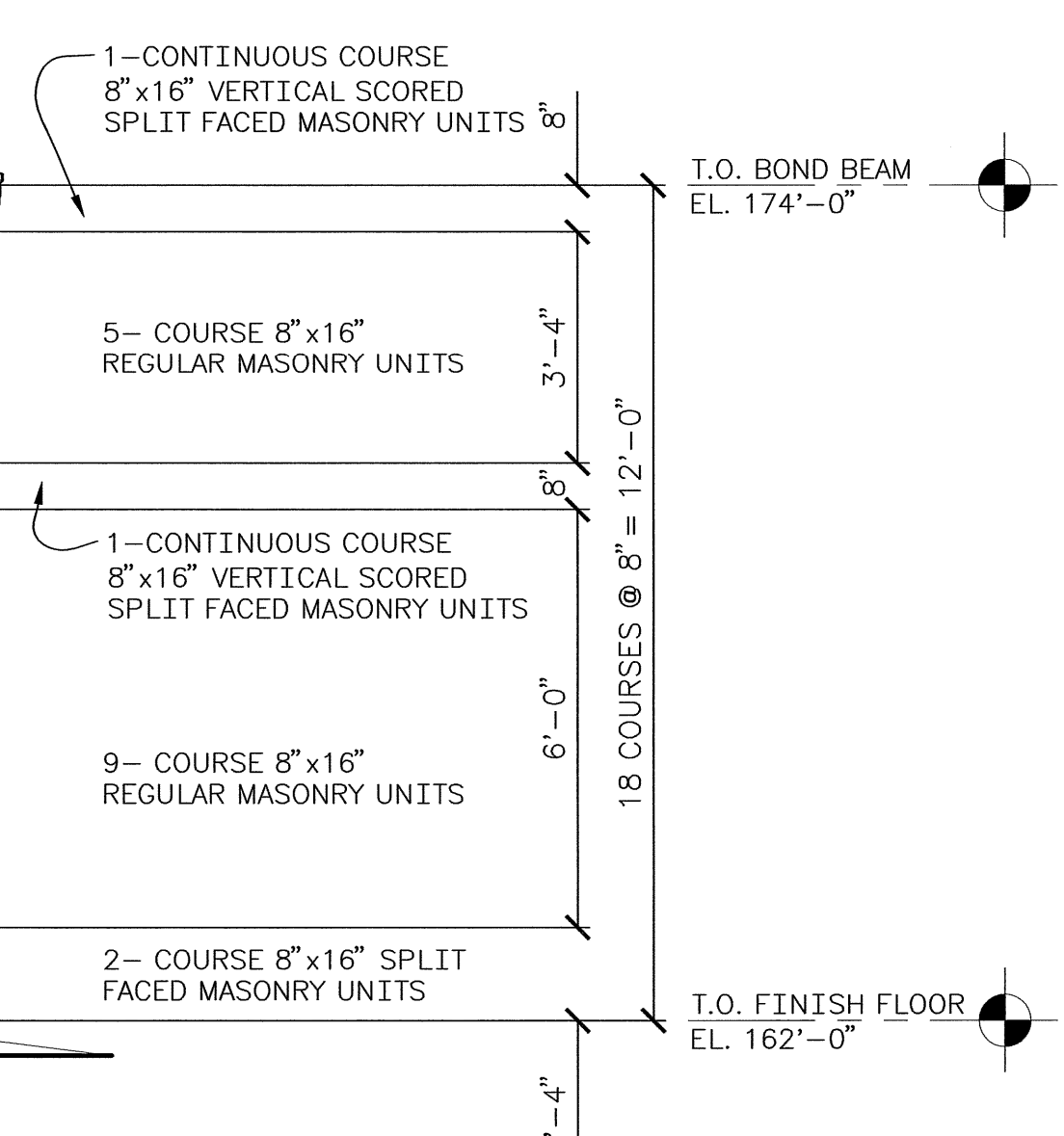
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SOUTH ELEVATION

EAST ELEVATION

TYPICAL MASONRY UNIT COURSING FOR ALL ELEVATIONS



NOTES

1. FOR FLOOR PLAN SEE DRAWING 423-D-809.
2. FOR LIGHT FIXTURES SEE ELECTRICAL SPECIFICATIONS.
3. FOR DOOR SCHEDULE, SEE 423-D-814.
4. FOR LOUVER SCHEDULE, SEE 423-D-814.

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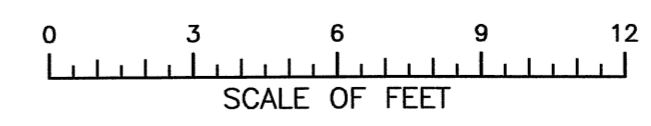
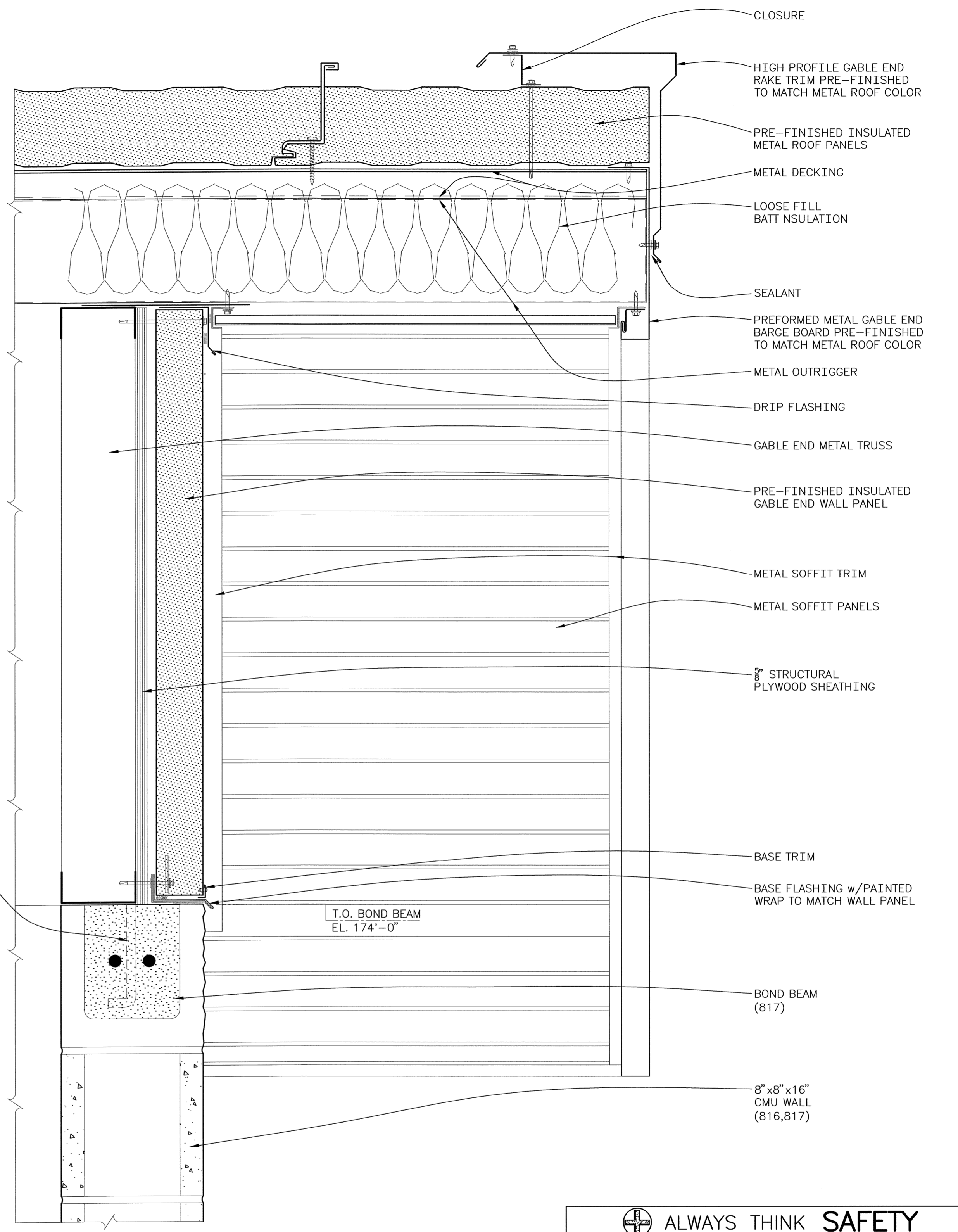
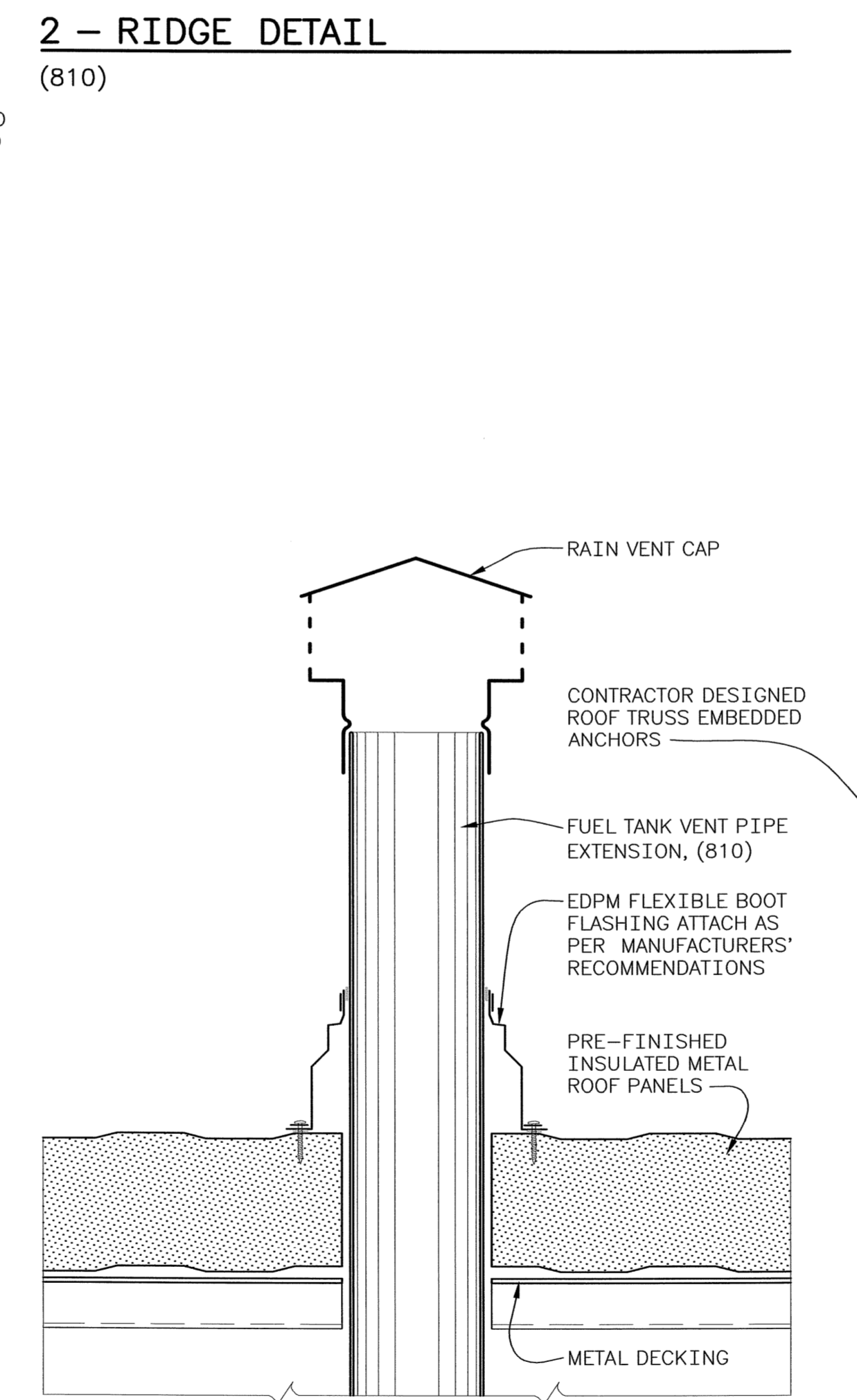
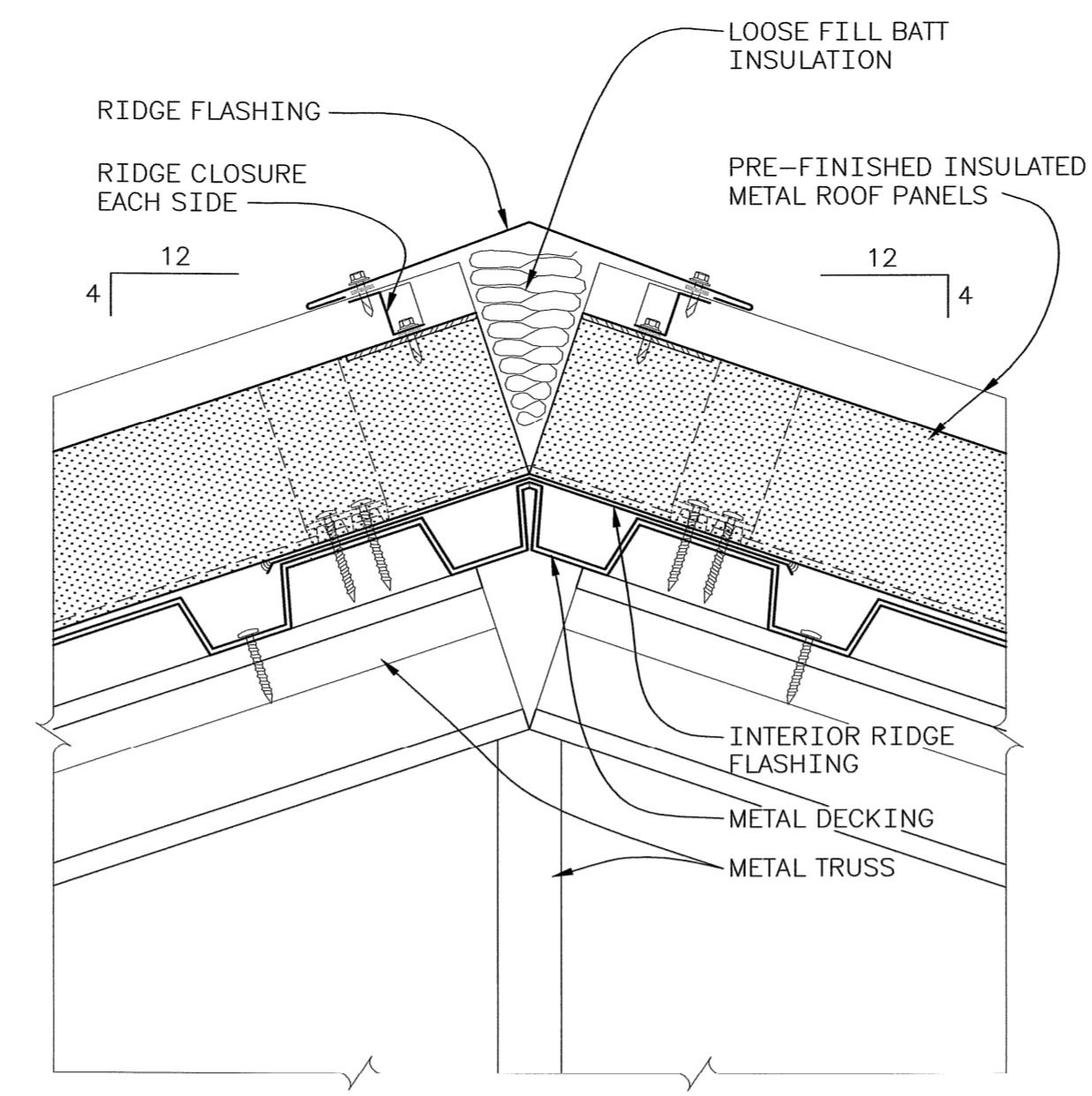
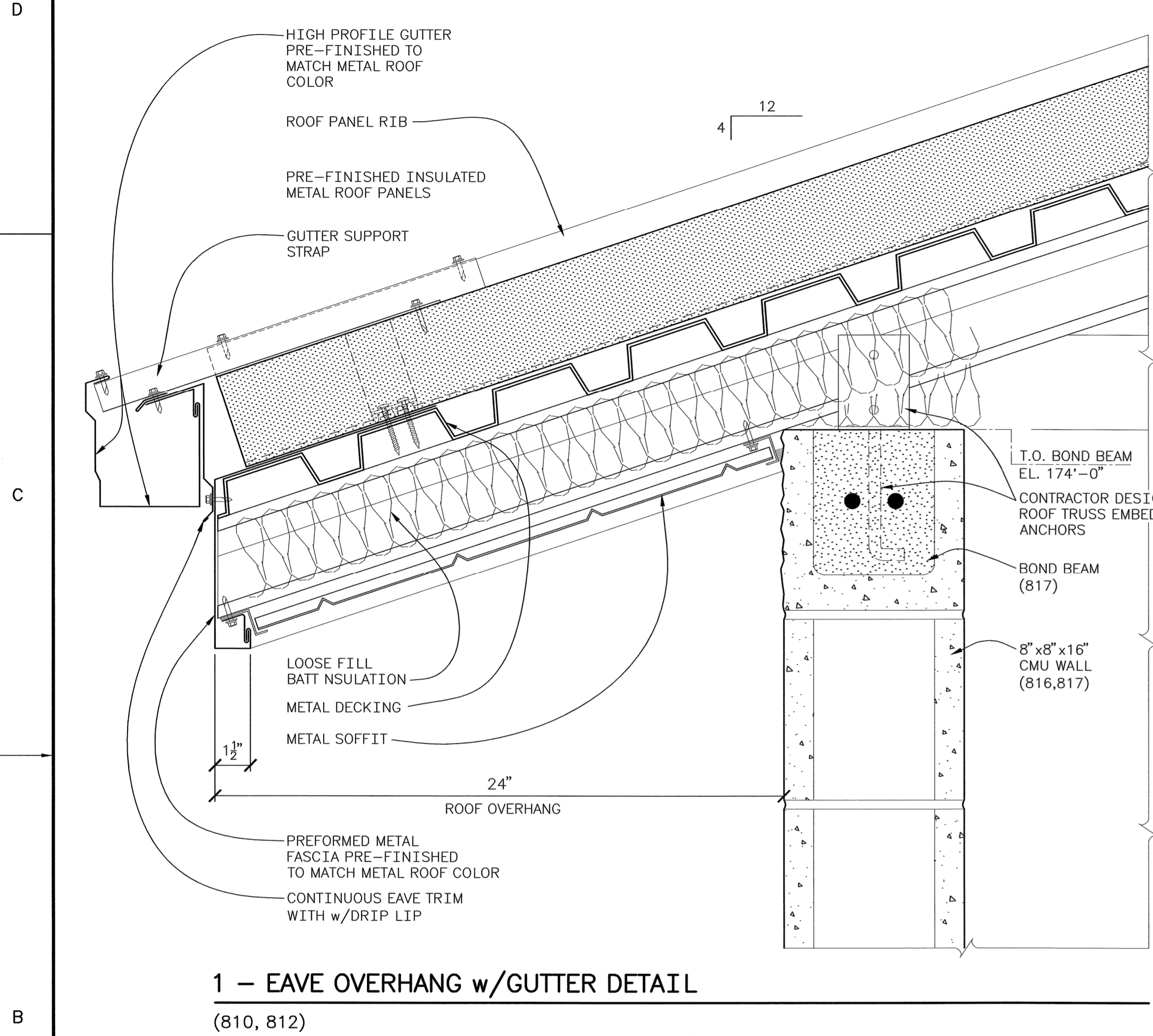
U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION

COLORADO RIVER FRONT WORK AND LEVEE SYSTEM - CALIFORNIA
**DROP 2 STORAGE RESERVOIR
CANAL AND STRUCTURES**
ARCHITECTURAL
**CONTROL BUILDING
ELEVATIONS**

DESIGNED: *[Signature]* CHECKED: *Paul M. Ruckey*
DRAWN: *[Signature]* TECH. APPR: *Paul M. Ruckey, P.E.*
APPROVED: *[Signature]* P.E.
PLANT STRUCTURES GROUP

DENVER, COLORADO 2008-04-17
SHEET 1 OF 1 **423-D-811**

CAD SYSTEM: AutoCAD Rev. 16.0s
 DATE AND TIME PLOTTED: APRIL 15, 2008 10:15
 PLOTTED BY: Not Plotted
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DATE AND TIME PLOTTED: APRIL 15, 2008 10:15
 PLOTTED BY: Not Plotted
 CAD SYSTEM: AutoCAD Ver. 16.0s
 CAD FILENAME: 423-D-809 THRU 814_ARCHITECTURAL_CONTROL_BLDG.1-9-08.DWG

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COLORADO RIVER FRONT WORK AND LEVEE SYSTEM - CALIFORNIA
**DROP 2 STORAGE RESERVOIR
CANAL AND STRUCTURES**
ARCHITECTURAL
CONTROL BUILDING
DETAILS

DESIGNED: *[Signature]* CHECKED: *Paul M. Ruckelshaus*
DRAWN: *[Signature]* TECH. APPR.: *Paul M. Ruckelshaus, P.E.*
APPROVED: *[Signature]* P.E.
PLANT STRUCTURES GROUP

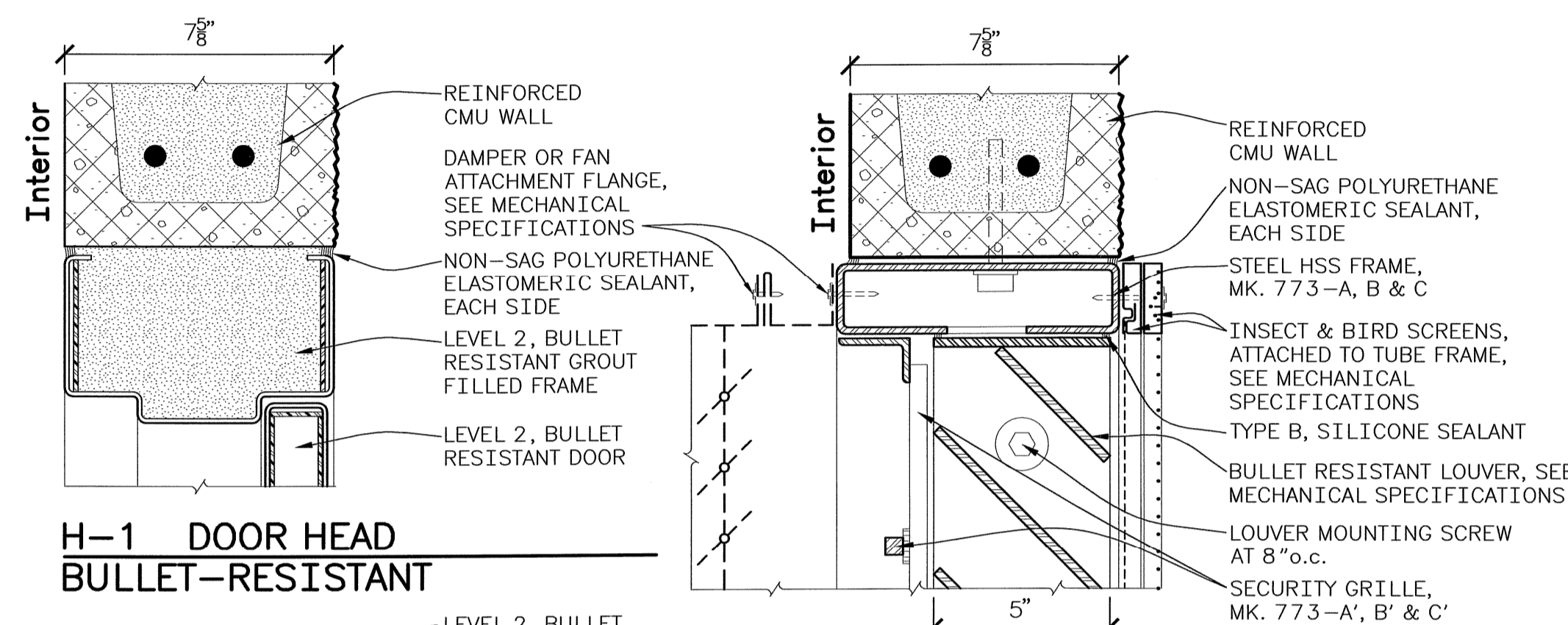
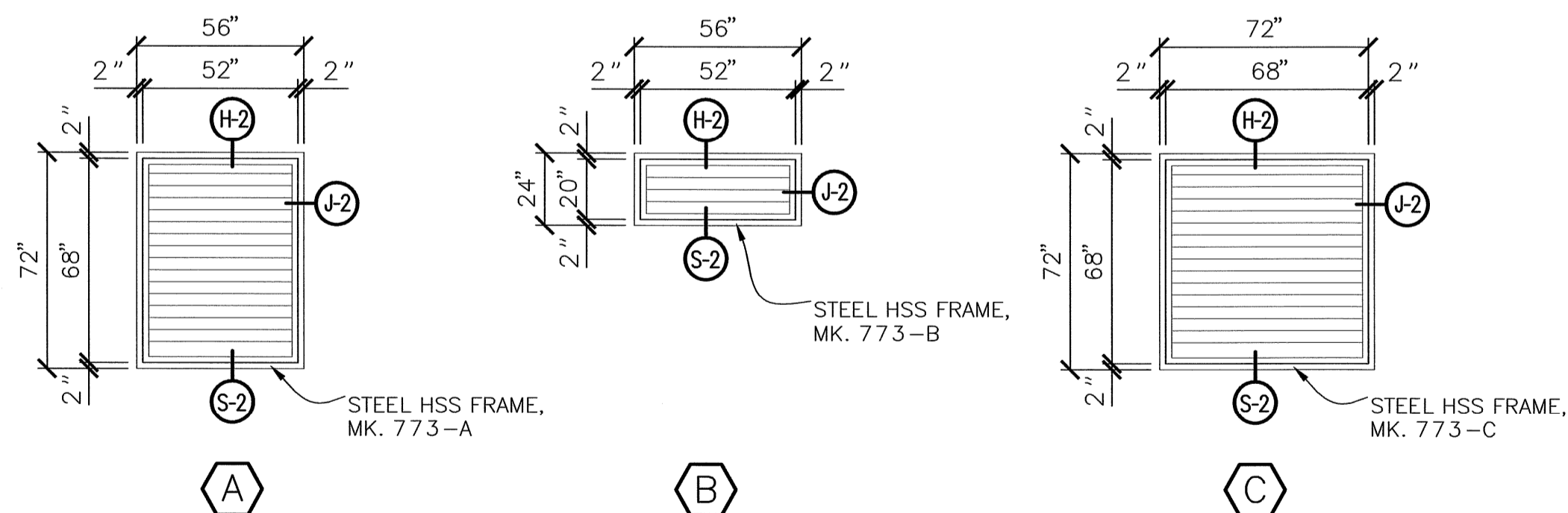
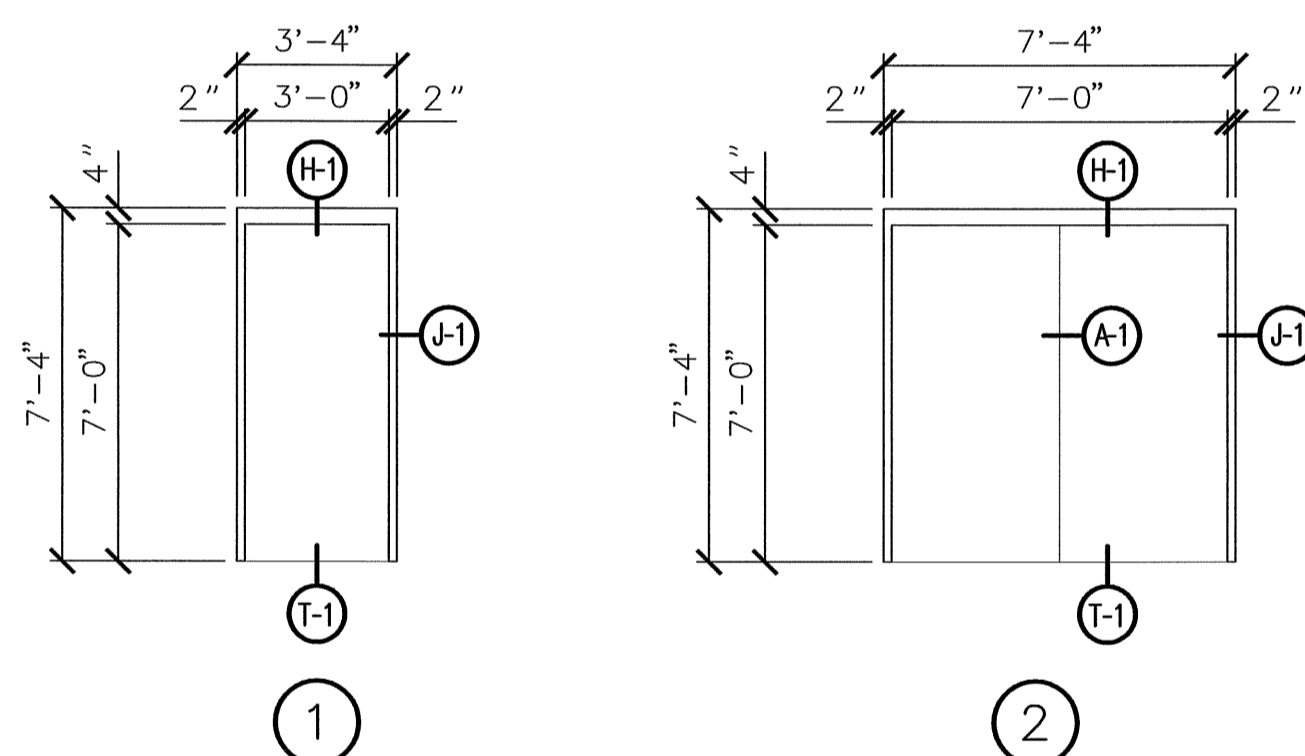
DENVER, COLORADO 2008-04-17
SHEET 1 OF 1 **423-D-813**

DOOR SCHEDULE

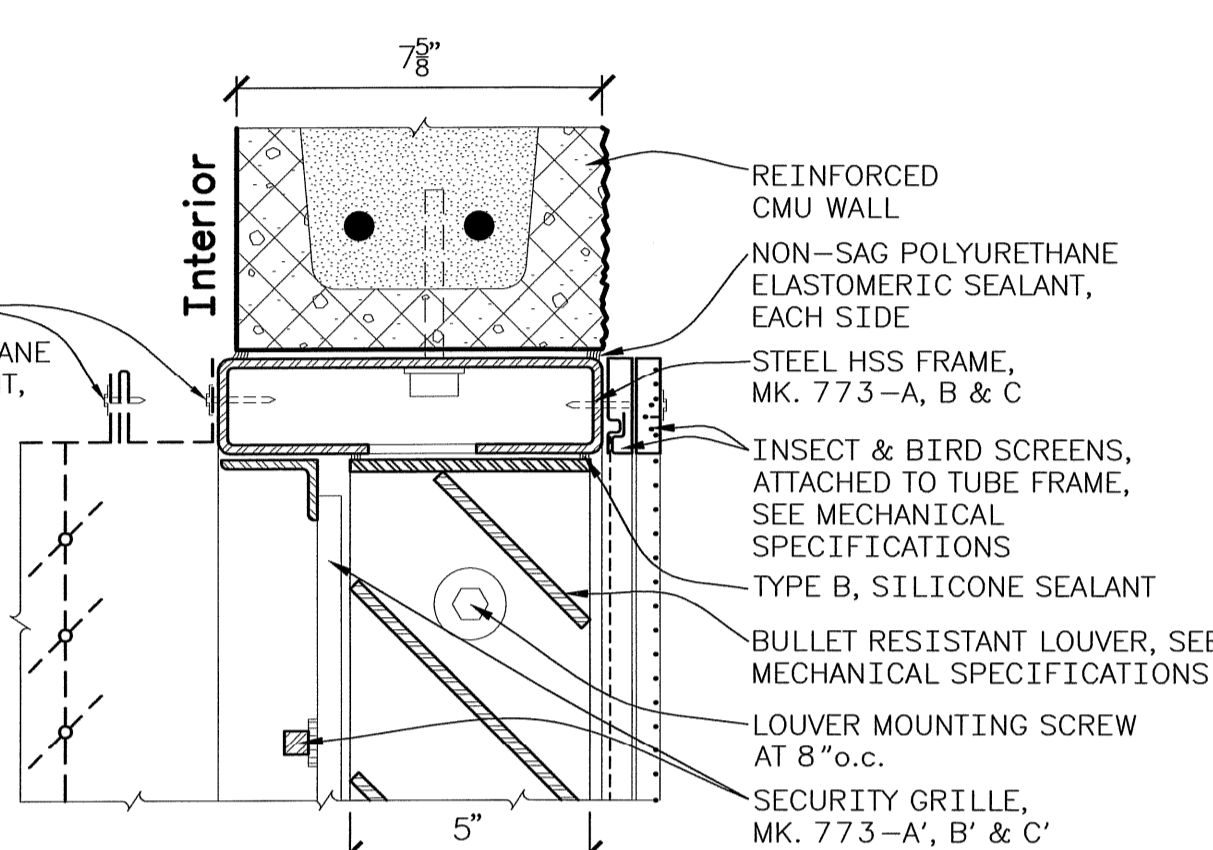
DOOR NUMBER	SIZE	OPENING	MATERIAL	DOOR TYPE	FRAME MATERIAL	FRAME TYPE	DETAILS			REMARKS	LOCATION DRAWING
							HEAD	JAMB	THRHLD		
100	3'-0" x 7'-0" x 1 3/4"	3'-4" x 7'-4"	STEEL	FLUSH	STEEL	1	H1	J1	T1	LEVEL 2 - BULLET RESISTANT DOOR & FRAME	423-D-809 423-D-811
101	3'-0" x 7'-0" x 1 3/4"	3'-4" x 7'-4"	STEEL	FLUSH	STEEL	1	H1	J1	T1	LEVEL 2 - BULLET RESISTANT DOOR & FRAME	423-D-809 423-D-811
102	7'-0" x 7'-0" x 1 3/4"	7'-4" x 7'-4"	STEEL	FLUSH	STEEL	2	H1	J1 A1	T1	LEVEL 2 - BULLET RESISTANT DOOR & FRAME	423-D-809 423-D-811

LOUVER SCHEDULE

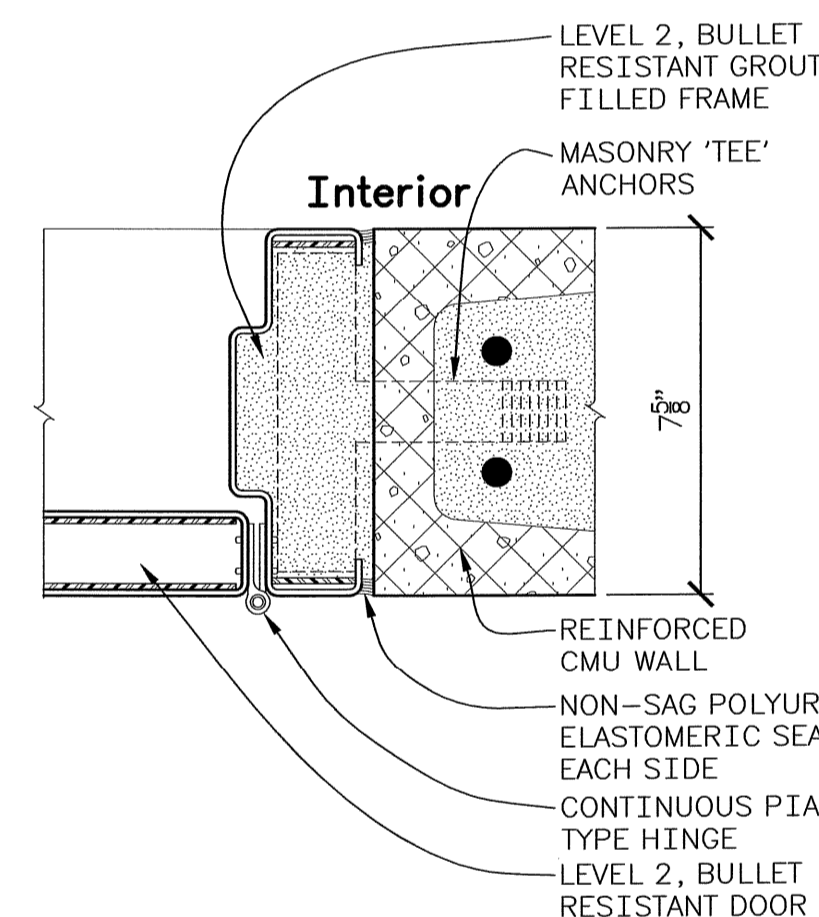
LOUVER NUMBER	LOUVER SIZE	QTY	TYPE	DETAILS			REMARKS	LOCATION DRAWING
				HEAD	JAMB	SILL		
A	52" x 68"	2	BULLET RESISTANT/ STATIONARY	H2	J2	S2	SEE MK. 773-A & A', DRAWING 423-D-773 AND MECHANICAL SPECIFICATIONS	423-D-809 423-D-811
B	52" x 20"	1	BULLET RESISTANT/ STATIONARY	H2	J2	S2	SEE MK. 773-B & B', DRAWING 423-D-773 AND MECHANICAL SPECIFICATIONS	423-D-809 423-D-811
C	68" x 68"	1	BULLET RESISTANT/ STATIONARY	H2	J2	S2	SEE MK. 773-C & C', DRAWING 423-D-773 AND MECHANICAL SPECIFICATIONS	423-D-809 423-D-811



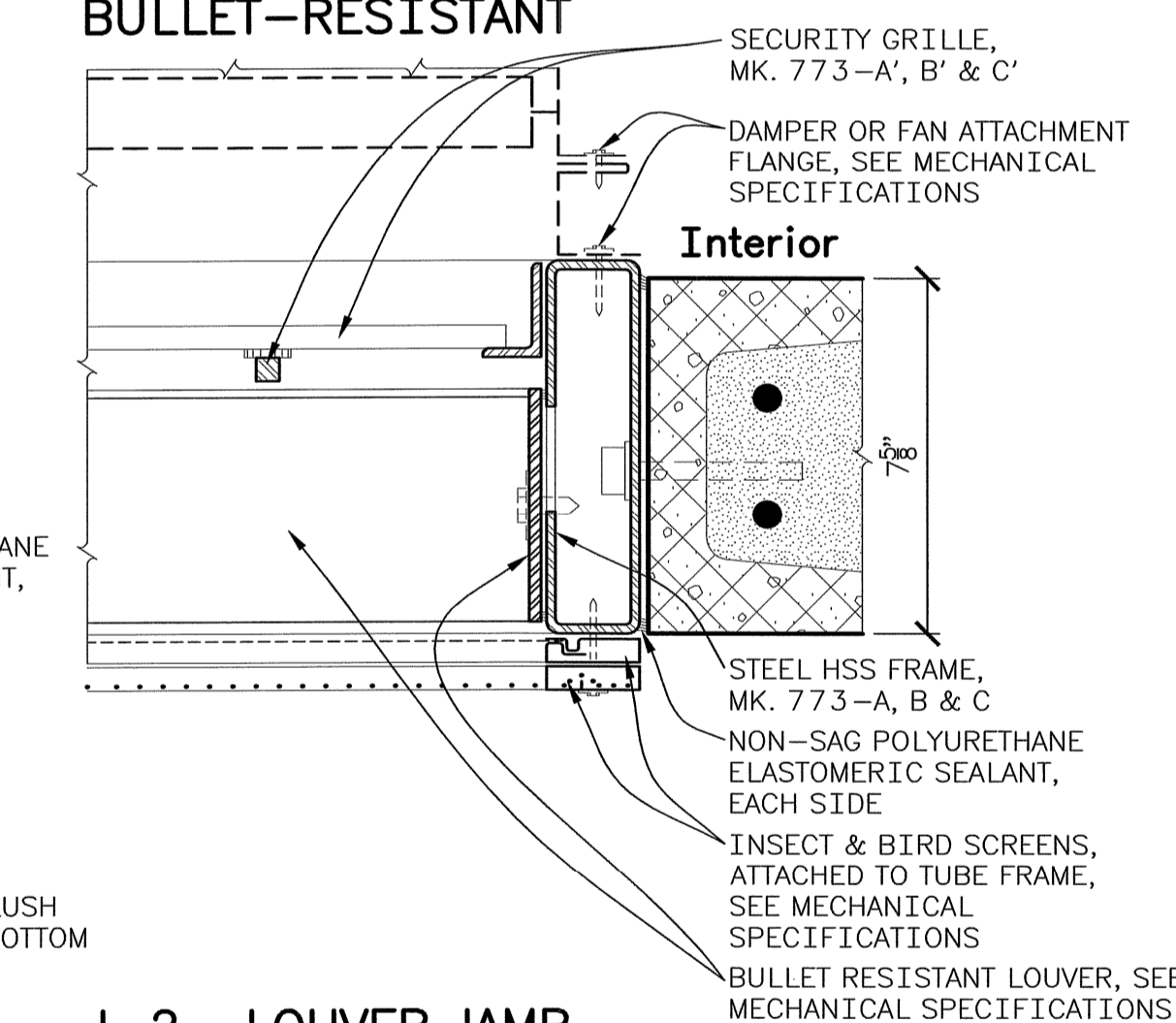
H-1 DOOR HEAD BULLET-RESISTANT



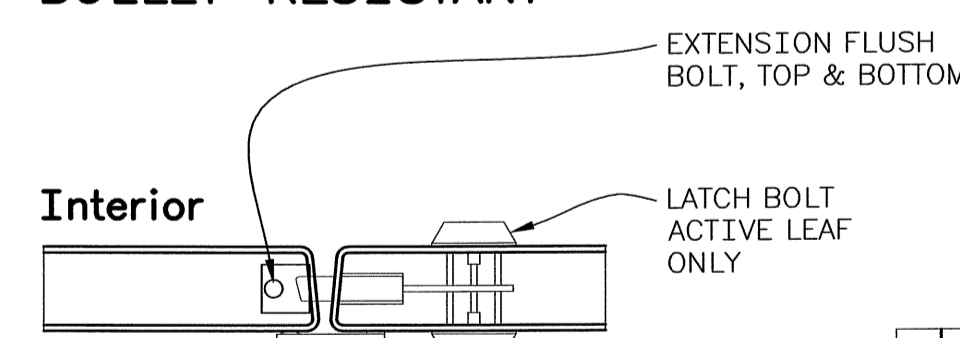
H-2 LOUVER HEAD BULLET-RESISTANT



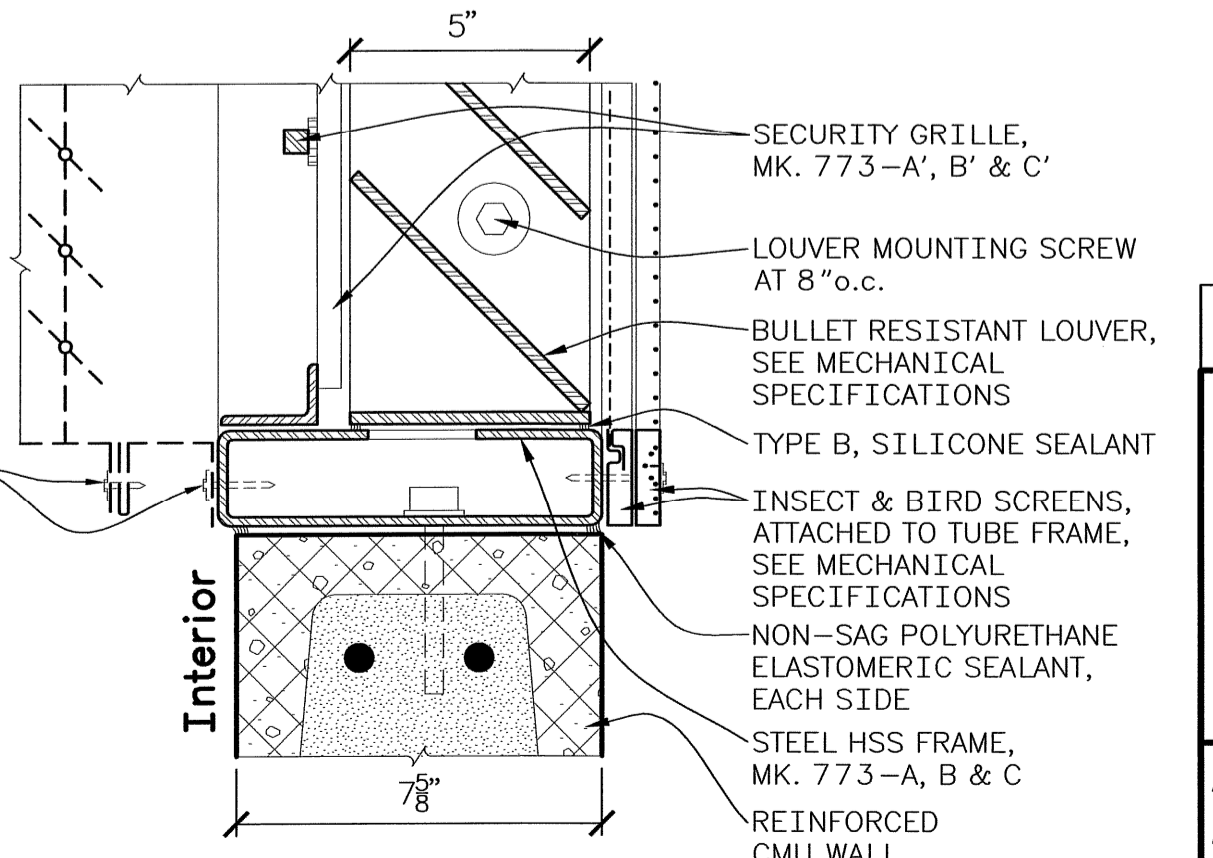
J-1 DOOR JAMB HINGE SIDE BULLET-RESISTANT



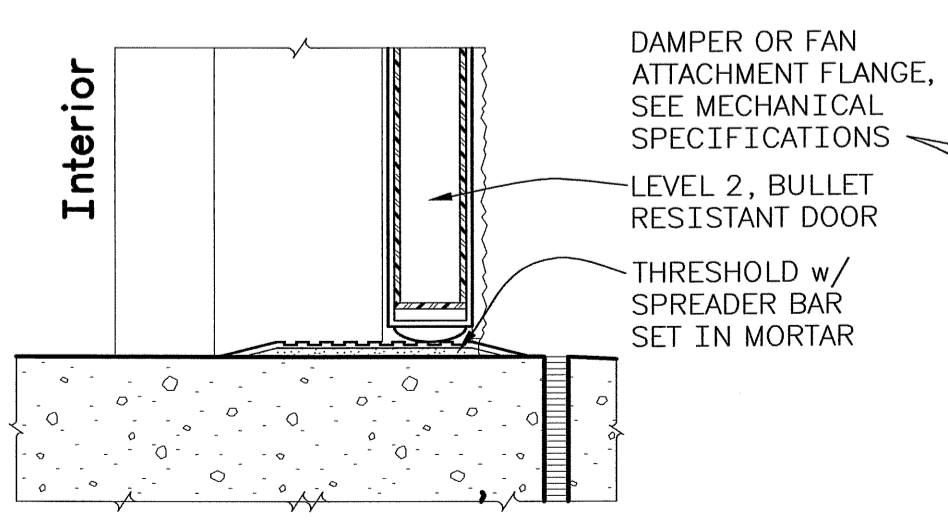
J-2 LOUVER JAMB BULLET-RESISTANT



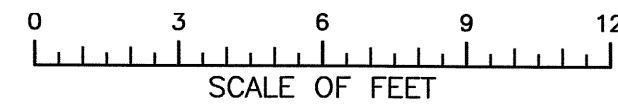
A-1 DOOR ASTRAGAL



S-2 LOUVER SILL BULLET-RESISTANT



T-1 DOOR THRESHOLD



CAD SYSTEM: AutoCAD Rev. 16.06
 DATE AND TIME PLOTTED: APRIL 15, 2008 10:15
 PLOTTED BY: Not Plotted
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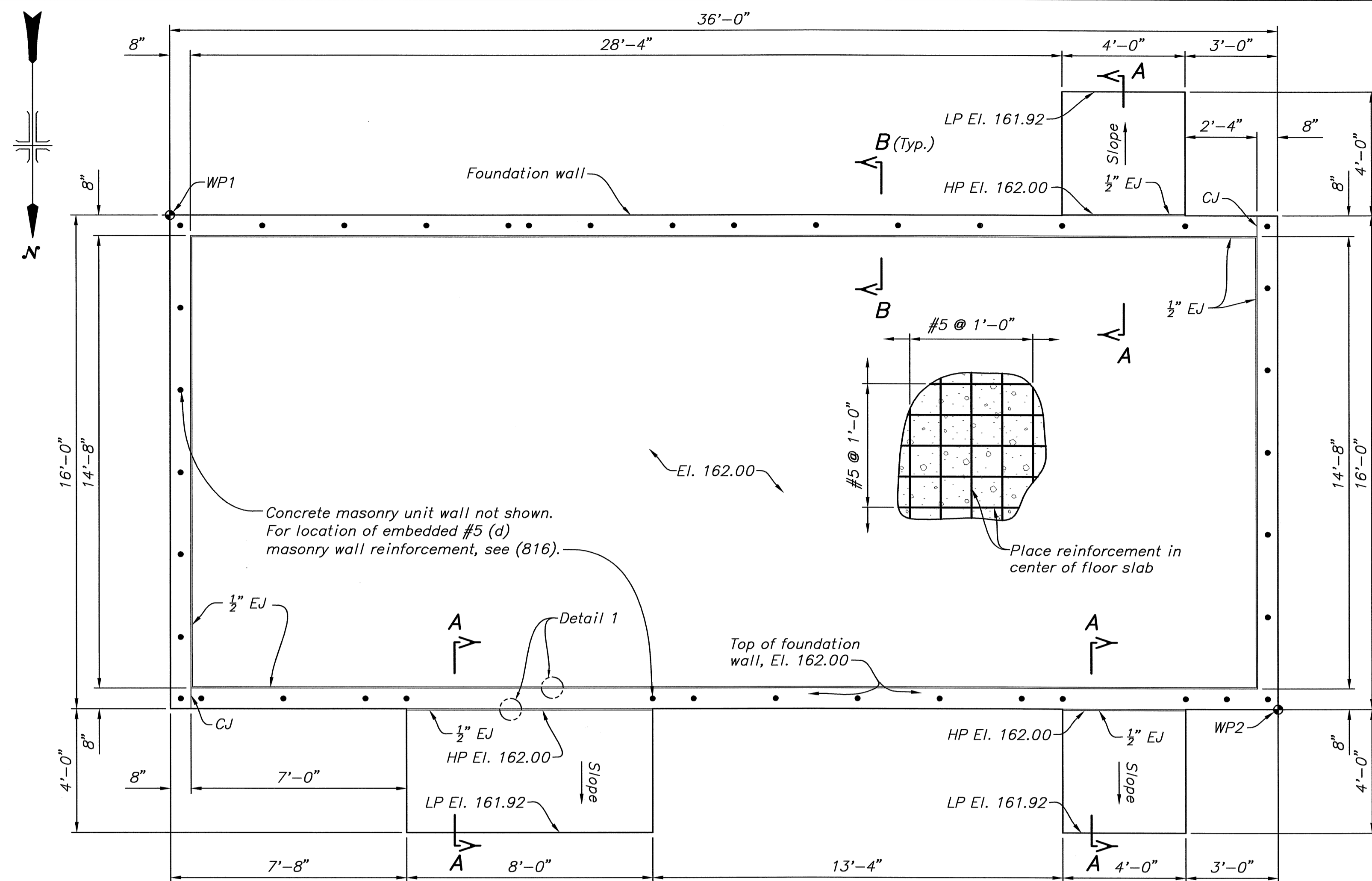
ALWAYS THINK SAFETY

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION

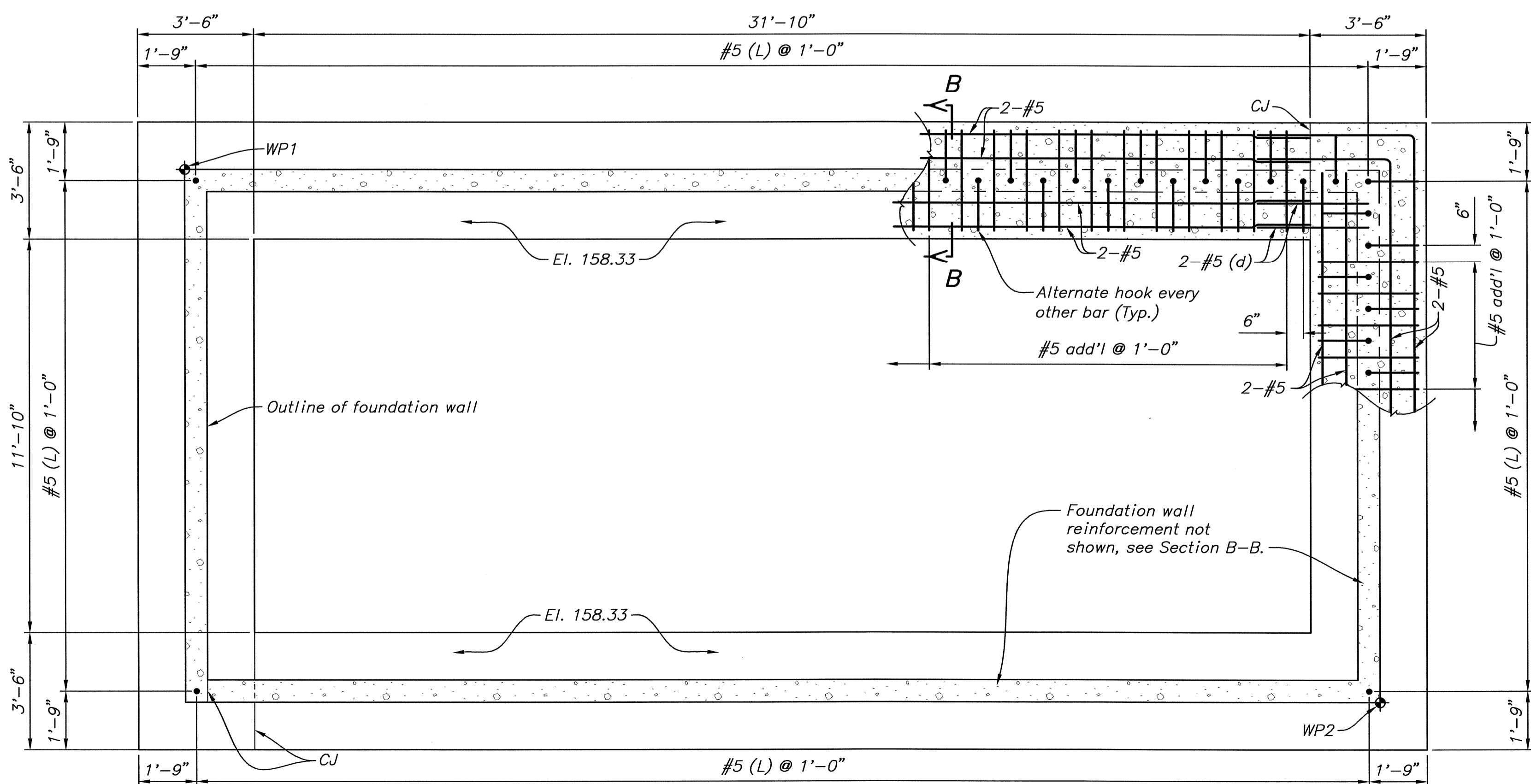
COLORADO RIVER FRONT WORK AND LEVEE SYSTEM - CALIFORNIA
**DROP 2 STORAGE RESERVOIR
CANAL AND STRUCTURES**
ARCHITECTURAL
CONTROL BUILDING
DOOR/LOUVER SCHEDULES AND DETAILS

DESIGNED: *J. Newbauer* CHECKED: *Paul M. Rude*
 DRAWN: *J. Newbauer* TECH. APPR.: *Paul M. Rude, P.E.*
 APPROVED: *W. J. P. P.E.*
 PLANT STRUCTURES GROUP

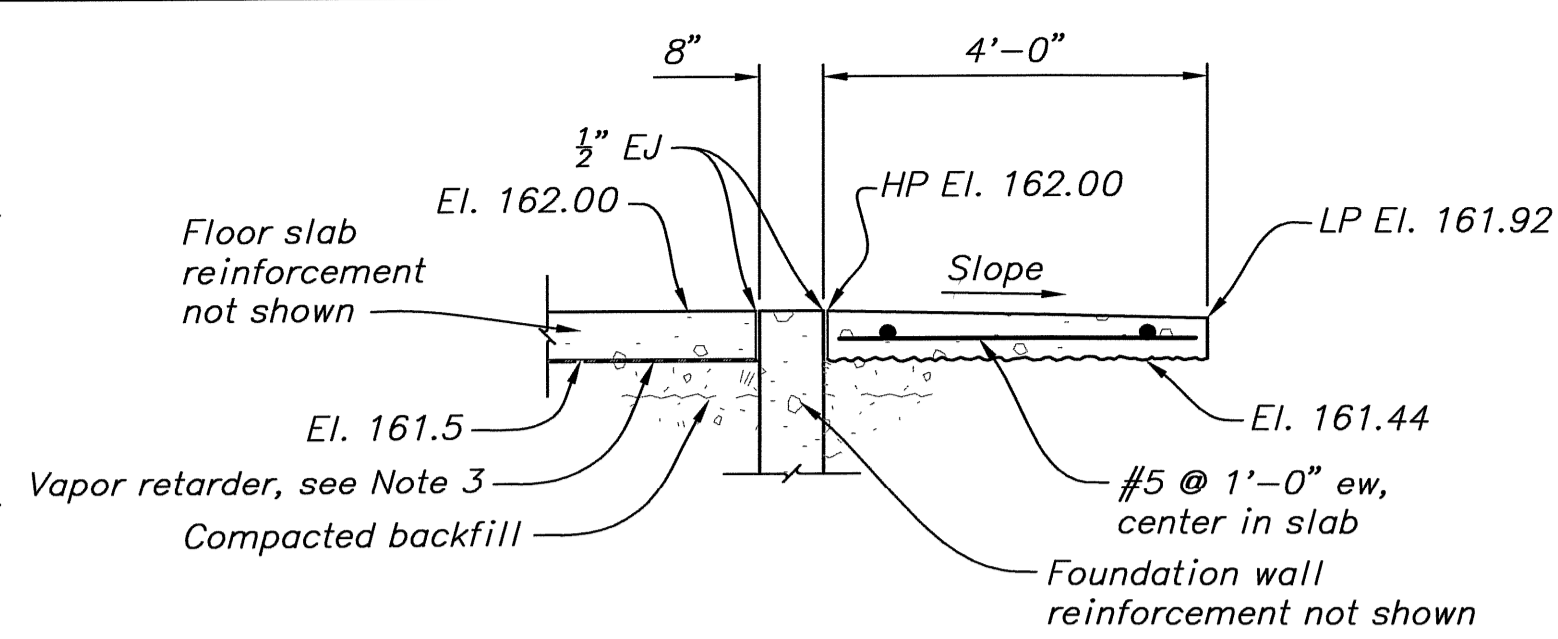
DENVER, COLORADO SHEET 1 OF 1 2008-04-17 **423-D-814**



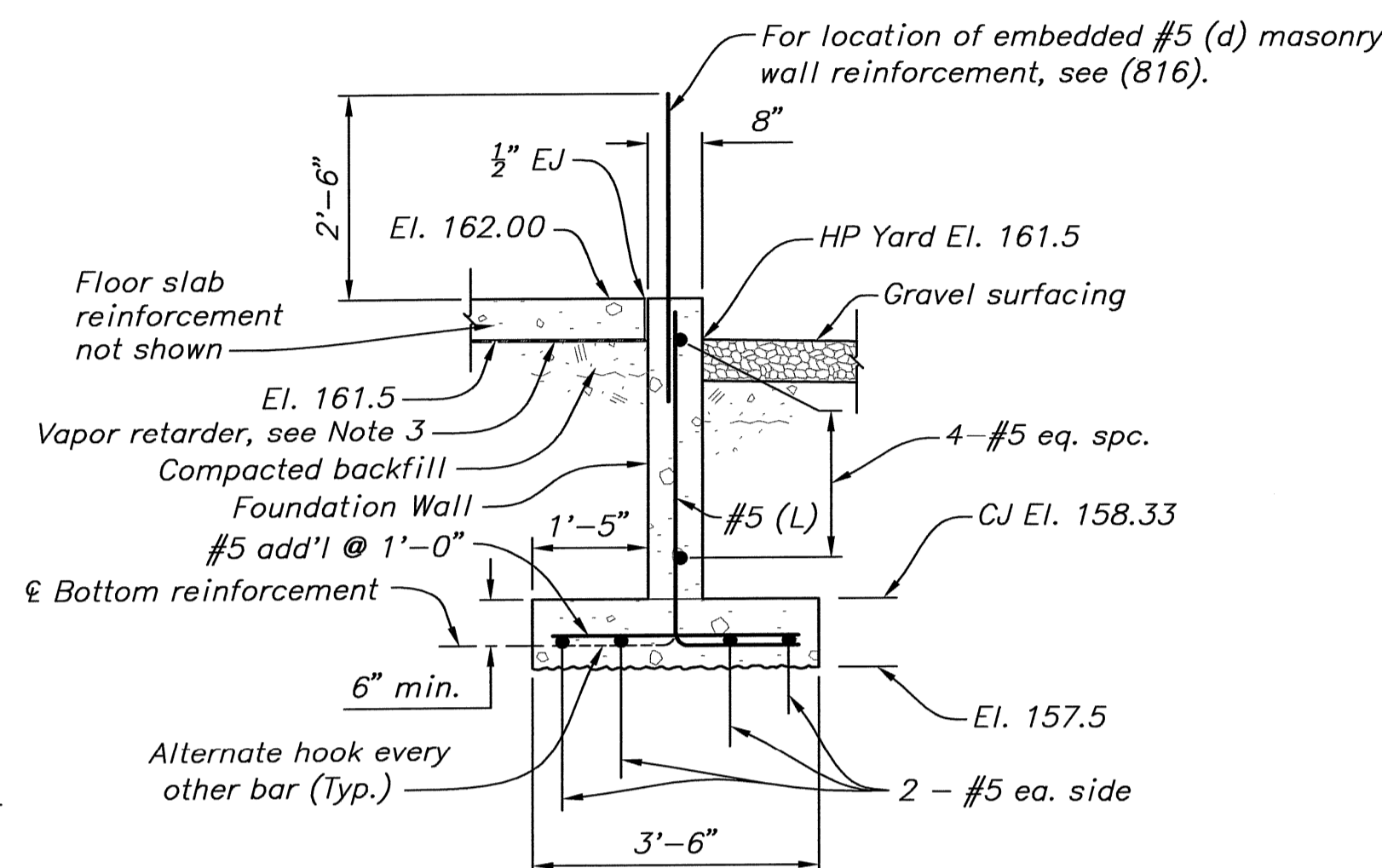
PLAN - EL. 162.00



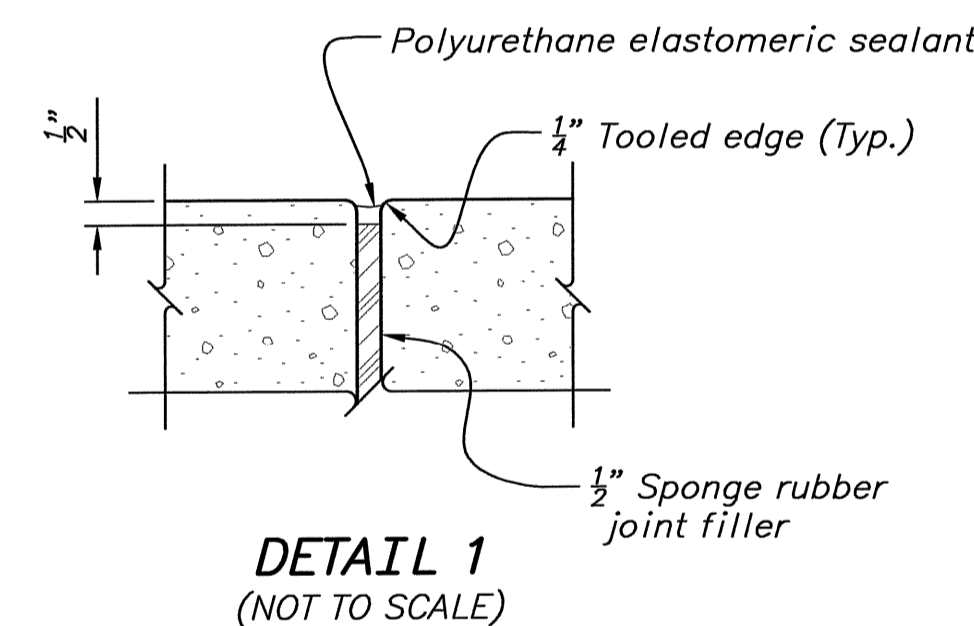
PLAN - EL. 158.33



SECTION A-A



SECTION B-B

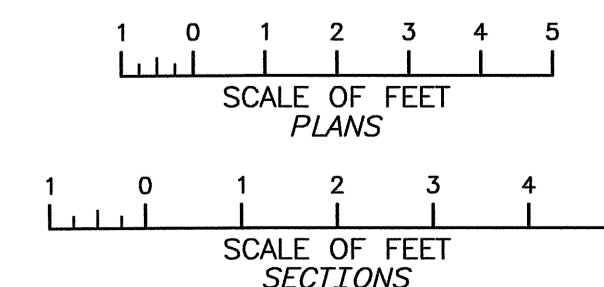


DETAIL 1 (NOT TO SCALE)

NOTES

1. For reinforced masonry walls, see (816 and 817).
2. For Structural Design Data, see (816).
3. Provide and install a vapor retarder under entire floor slab. Refer to Specifications Section 03300 - Cast-In-Place Concrete.

WORKING POINT COORDINATES		
POINT	NORTHING	EASTING
WP1	1,840,330.40	6,936,414.89
WP2	1,840,346.00	6,936,378.72



GENERAL NOTES

Concrete design is in accordance with the requirements of ACI 318-05 Building Code Requirements for Structural Concrete and 2006 International Building Code.

For general concrete outline notes, see 40-D-7012.

Structural design for cast-in-place concrete is based on concrete with a compressive strength of 4,000 pounds per square inch at 28 days and reinforcement with a minimum yield strength of 60,000 pounds per square inch.

Dimensions not shown are the same dimensions for identical details shown elsewhere on the drawings.

Where concrete with varying thickness is shown on the drawings, vary thickness of concrete uniformly between dimensions and elevations shown.

Pipe sleeves and embedded piping 12 inches in diameter and larger are shown on the drawings. Smaller diameter pipe sleeves or piping may or may not be shown.

Not all embedded items are shown on the outline drawings.

Before placing concrete on grade, verify that all buried material below the concrete is in place.

All horizontal construction joints shall be thoroughly cleaned and roughened to a full amplitude of approximately 1/4 inch.

Backfill shall not be placed against the walls until concrete has attained a compressive strength of 4,000 pounds per square inch.

Chamfer edges of permanently exposed concrete surfaces, except slabs, with a 45° bevel 3/4" x 3/4", unless otherwise shown on the drawings.

Tool exposed edges of slabs and top edges of curbs to a radius of 1/4", unless otherwise shown on the drawings.

Construction joints may be added, omitted, or relocated, if approved by the Contracting Officer's Representative.

For details of construction and contraction joints, see 40-D-5247.

Permanently exposed control building interior floor slabs shall receive an application of concrete floor hardener. Refer to the specifications paragraphs for type of hardener to use and application requirements.

REINFORCEMENT DESIGN GENERAL NOTES

For general notes and minimum requirements for detailing reinforcement, see 40-D-6263.

All horizontal wall splices and development lengths are "other bar" unless otherwise noted.

Unless shown otherwise, only the first and last bars are shown in a line of bars cut in cross section.

REFERENCE DRAWINGS

- ARCHITECTURAL DRAWINGS --- 423-D-809 THRU 814.
- GENERAL PLAN DRAWING --- 423-D-698.
- ELECTRICAL DRAWINGS --- 423-D-821 THRU 827.
- MISC. METALWORK DRAWING --- 423-D-773.
- MECHANICAL DRAWING --- 423-D-782.

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BUREAU OF RECLAMATION

COLORADO RIVER FRONT WORK AND LEVEE SYSTEM - CALIFORNIA

DROP 2 STORAGE RESERVOIR

CANAL AND STRUCTURES

CONTROL BUILDING

**CONCRETE OUTLINE AND REINFORCEMENT DESIGN
PLANS, SECTIONS AND DETAIL**

DESIGNED *Bradley D. Van Otterloo* CHECKED *[Signature]*
 DRAWN *Bradley D. Van Otterloo* TECH. APPR. *Paul H. Ruhl* P.E.
 APPROVED *[Signature]* P.E.
 PLANT STRUCTURES GROUP

DENVER, COLORADO 2008-04-04
 SHEET 1 OF 1 **423-D-815**

DATE AND TIME PLOTTED: APRIL 3, 2008 11:15
 PLOTTED BY: BRANDT/ROLO
 CAD FILENAME: 423-D-815 CONCRETE OUTLINE AND REINFORCEMENT DESIGN
 CAD SYSTEM: AutoCAD Rev. 16.15

STRUCTURAL DESIGN DATA

Dead Loads
 Concrete 150 PCF
 Structural Steel 490 PCF
 Masonry 52 PSF

Roof Live Loads
 Uniformly Distributed 20 PSF
 Concentrated 300 LB

Floor Live Loads
 Uniformly Distributed 200 PSF

Seismic Loads
 Site Class D
 Occupancy Category II
 Importance Factor, $I = 1.0$
 Mapped Spectral Response Acceleration Parameters
 $S_s = 1.053g @ 0.2 \text{ second}$
 $S_1 = 0.424g @ 1 \text{ second}$
 Design Spectral Response Acceleration Parameters
 $SD_s = 0.76g @ 0.2 \text{ second}$
 $SD_1 = 0.45g @ 1 \text{ second}$
 Seismic Design Category D
 Seismic Response Coefficient, $C_s = 0.151g$
 Response Modification Factor, $R=5.0$
 Basic Seismic-Force Resisting System
 Special Reinforced Masonry Shear Walls
 Equivalent Lateral Force Base Shear
 North-to-South = 4.2 Kips*
 East-to-West = 2.9 Kips*
 * Parallel walls not included in seismic weight.

Snow Loads
 State of California, Imperial County - For elevations below 1,000 feet there is no snow load requirement.

Wind Loads
 Method 2 - Analytical Procedure
 Basic Wind Speed (3-second gust) - 85 MPH
 Occupancy Category II
 Importance Factor, $I = 1.0$
 Exposure Category C

MASONRY DESIGN GENERAL NOTES

Masonry design is based on a 28 day compressive strength of $f'm = 1,500$ pounds per square inch.

Masonry reinforcement design is based on a minimum yield strength $f_y = 60,000$ pounds per square inch and allowable tension stress $f_s = 24,000$ pounds per square inch for reinforcing bars.

Masonry design is in accordance with the requirements of ACI 530-05 Building Code Requirements for Masonry Structures and 2006 International Building Code.

Design Procedure: Allowable Stress Design.

Reinforcing bars standard hooks and minimum bend diameters shall be in accordance with ACI 530-05.

Thoroughly roughen and clean concrete surfaces on which masonry units are to be placed.

Provide $\frac{5}{8}$ " minimum cover for longitudinal wires of horizontal joint reinforcement at exposed faces.

Number and location of splices to be determined by contractor.

All cells of the masonry wall containing reinforcement bars shall be grouted.

Not all penetrations through concrete masonry walls have been shown. Details shown are typical unless noted otherwise.

Dimensions of concrete masonry units are nominal block dimensions.

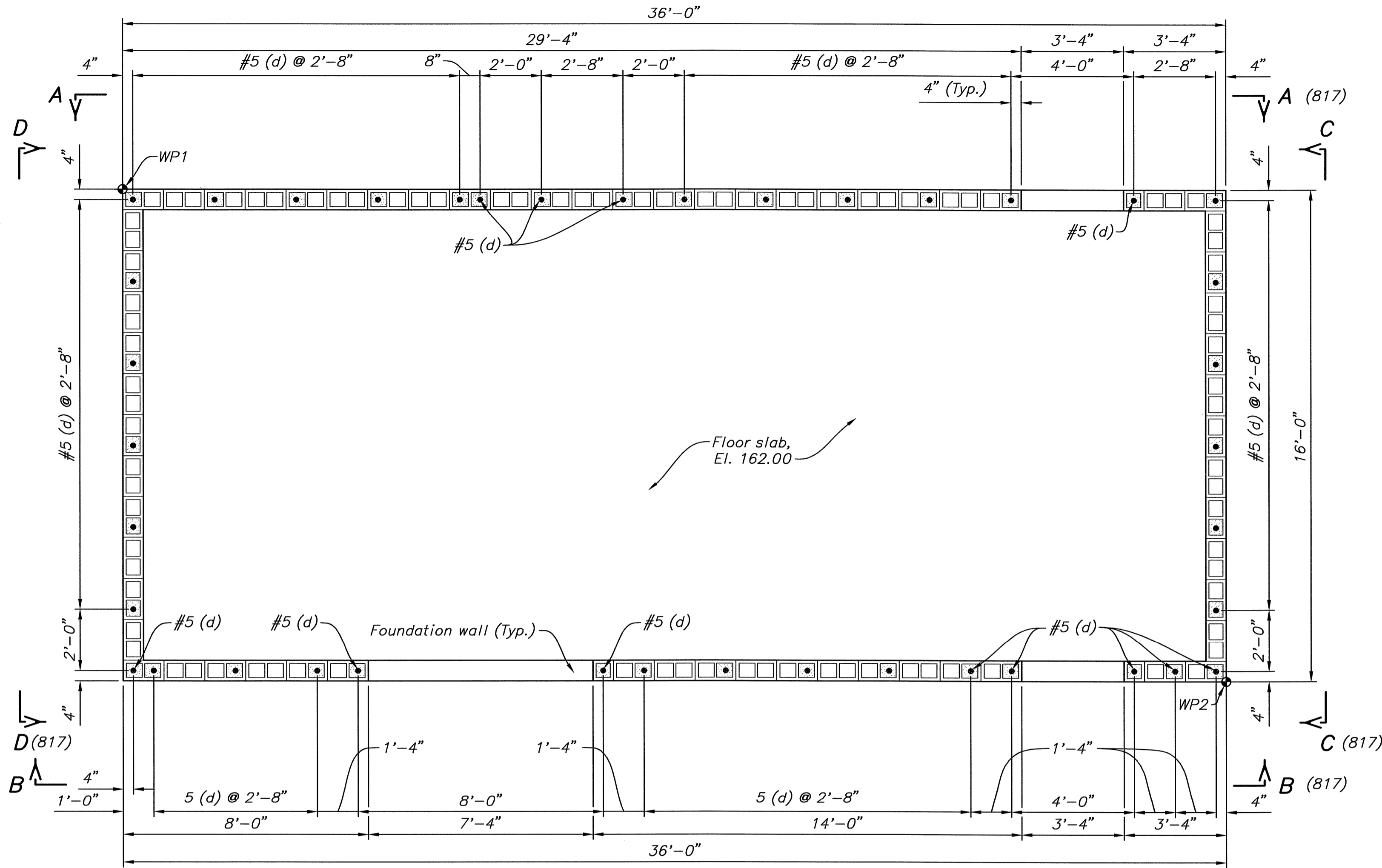
Special inspections and testing of masonry construction shall be conducted in accordance with the 2006 International Building Code Sections 1704, 1705, 1706, 1707, and 1708.

ABBREVIATIONS

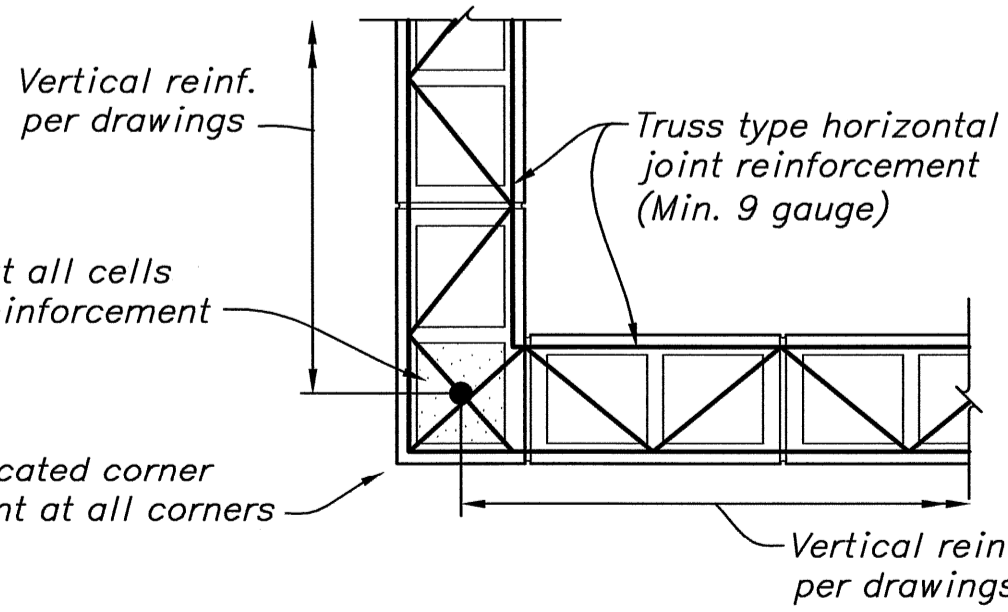
LB Pounds
 PCF Pounds per cubic foot
 PSI Pounds per square inch
 PSF Pounds per square foot
 MPH Miles per hour
 HP High point
 LP Low point

NOTES

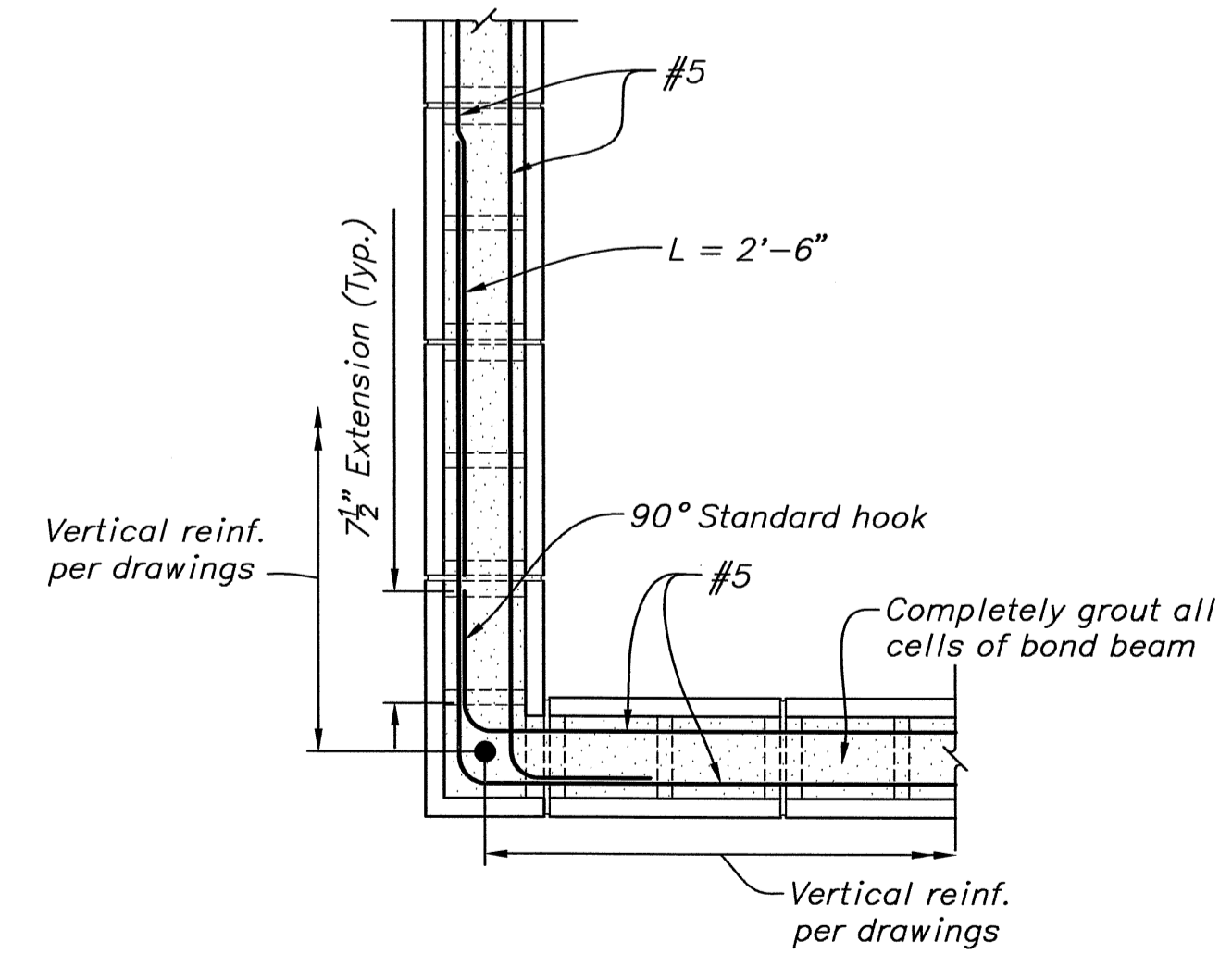
- For reinforced concrete building foundation and reference drawings, see (815).
- For coordinates of Working Points WP1 and WP2, see (815).
- For metal frames and guard posts, see (773).



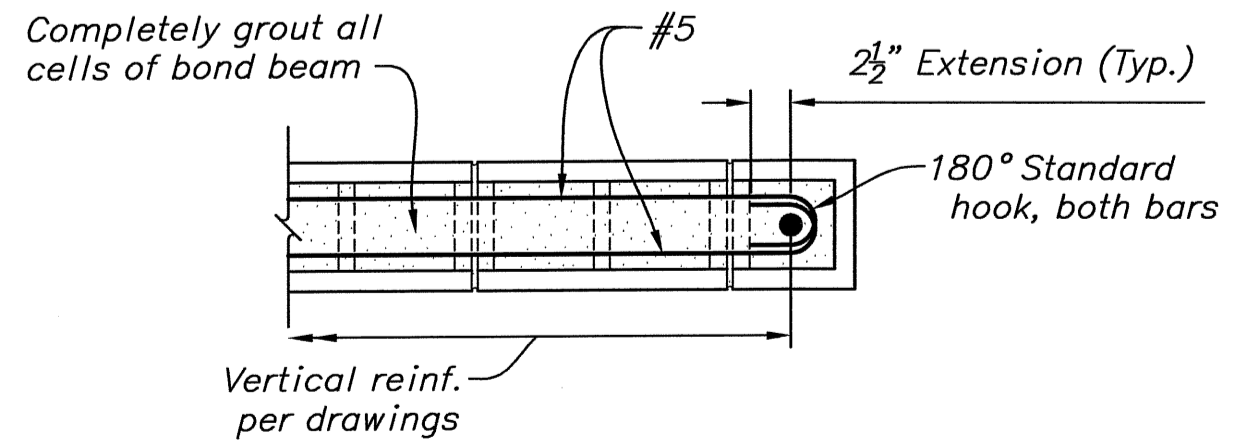
PLAN - EL. 162.00



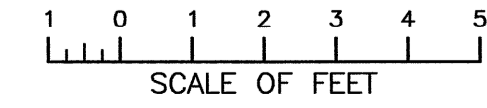
TYPICAL CORNER DETAIL AT HORIZONTAL JOINT REINFORCEMENT (NOT TO SCALE)



TYPICAL CORNER DETAIL AT BOND BEAM (NOT TO SCALE)



TYPICAL END DETAIL AT BOND BEAM (NOT TO SCALE)



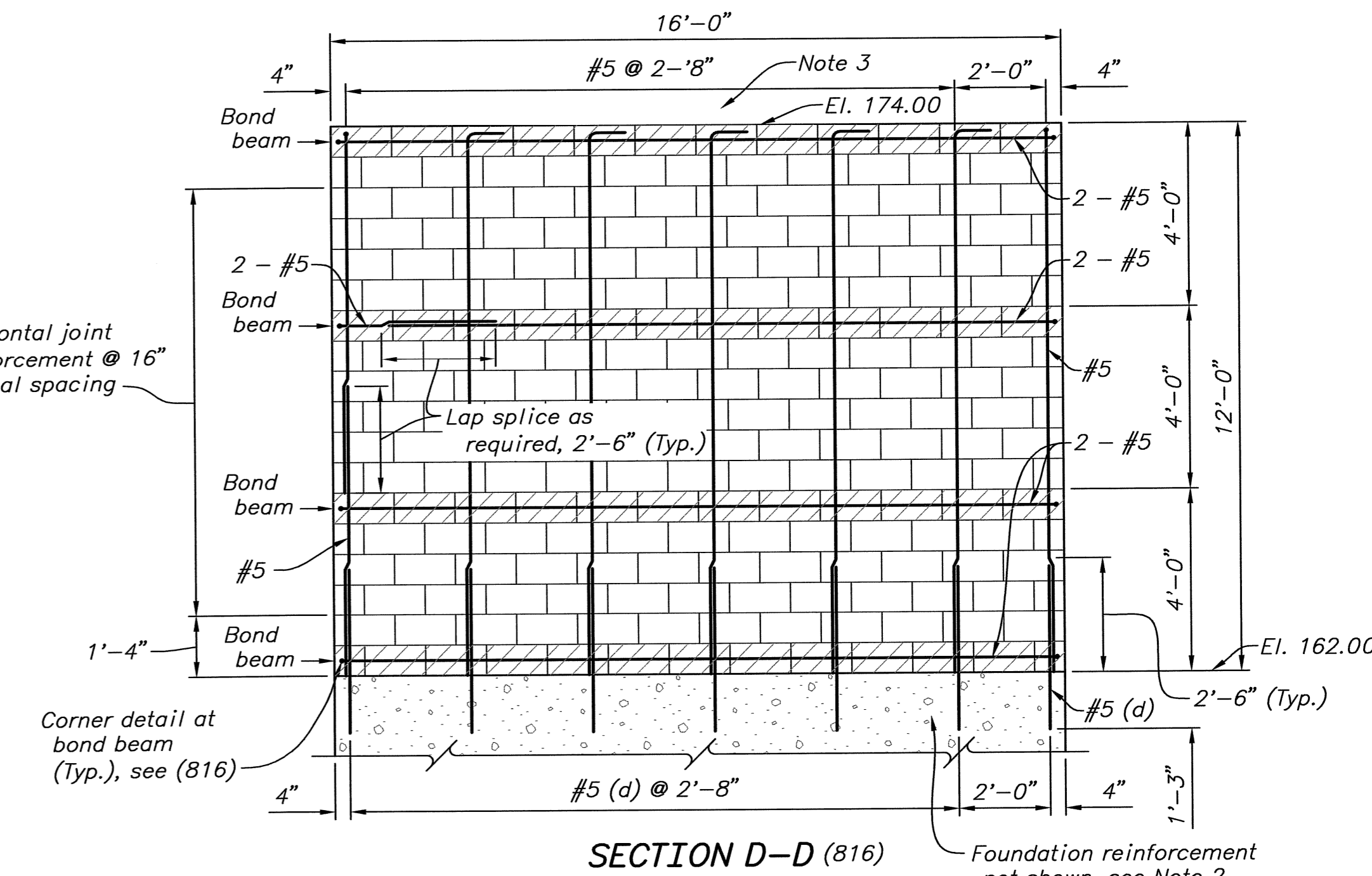
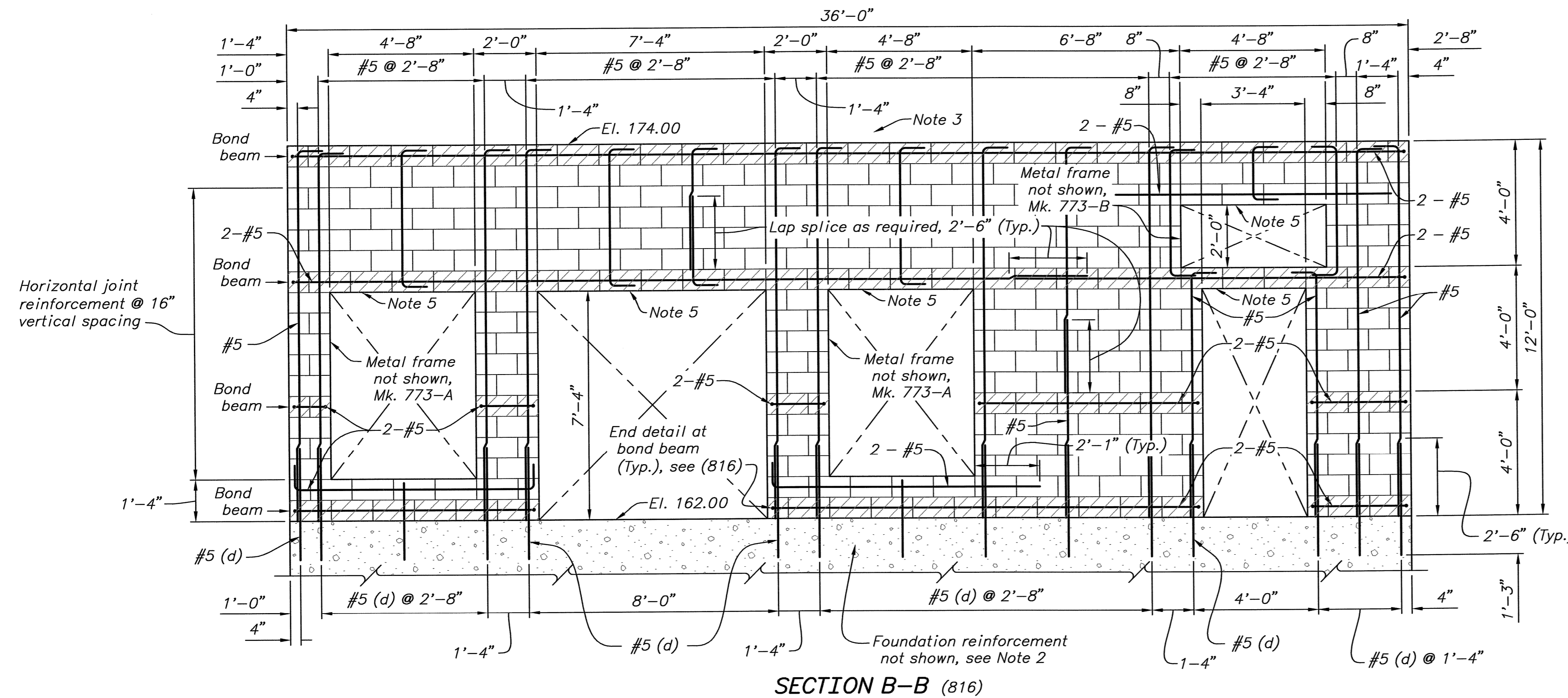
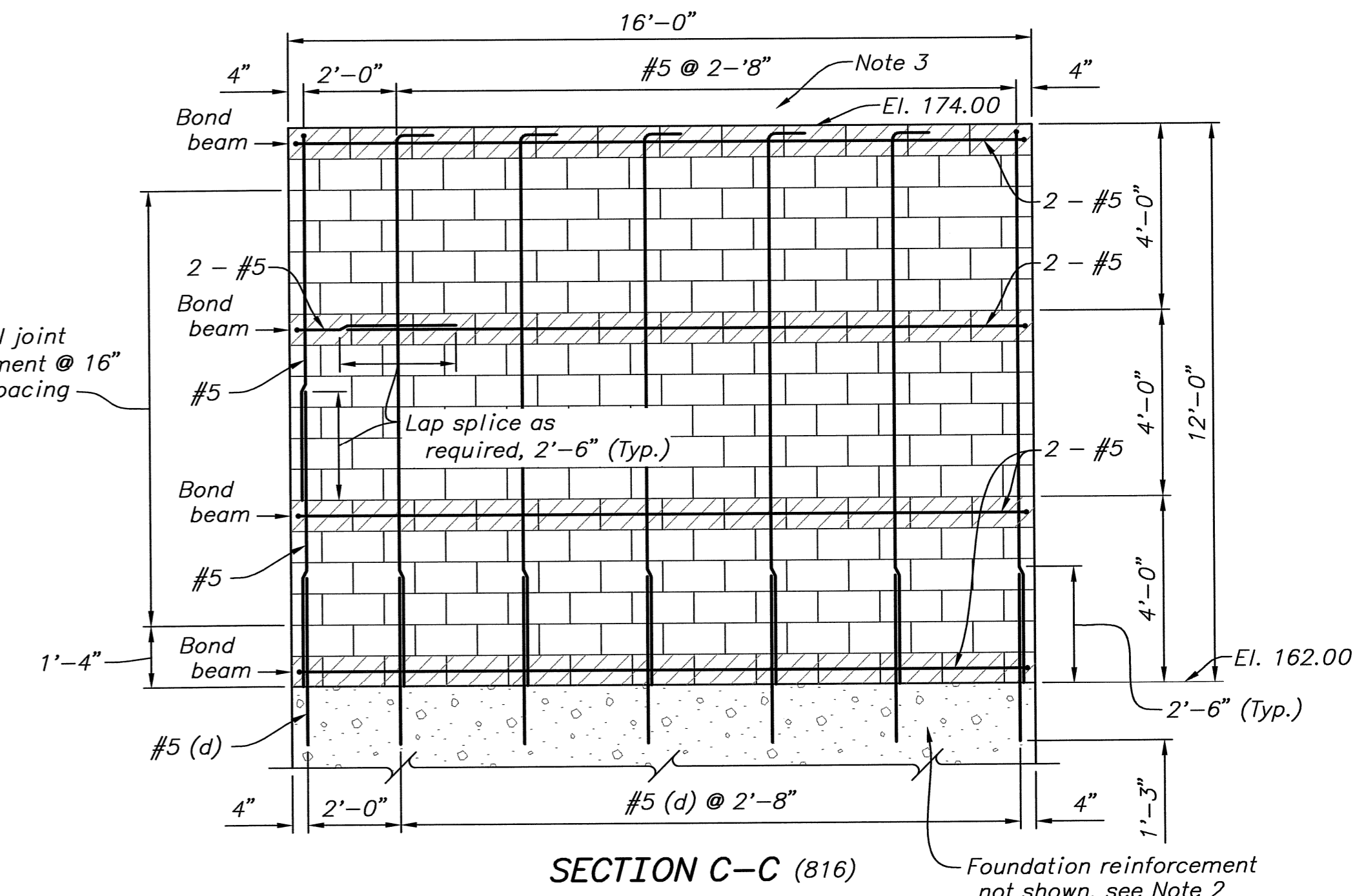
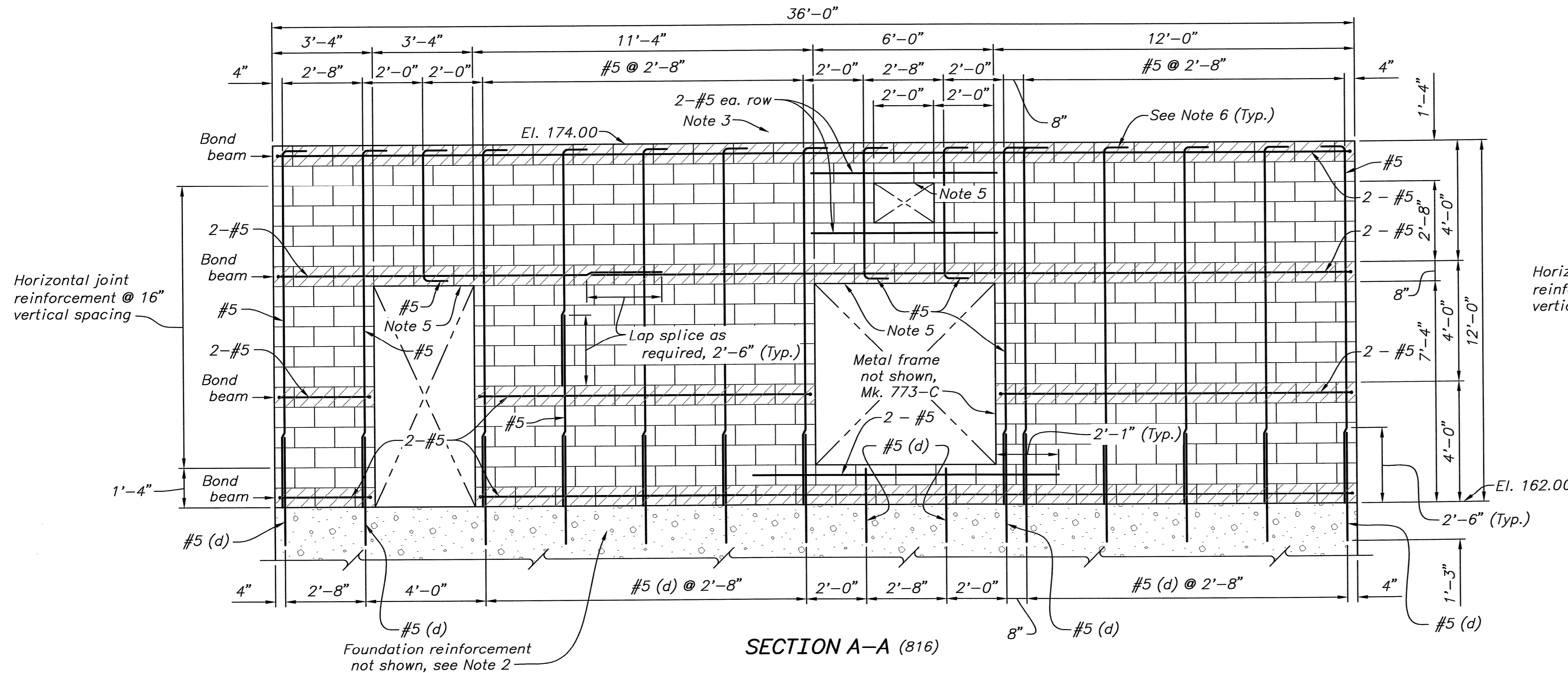
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 PLOTTED BY: BMANOTERLO
 CAD SYSTEM: AutoCAD PLOT
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 16.1s
 2008-04-04
 SHEET 1 OF 1

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 BUREAU OF RECLAMATION
 COLORADO RIVER FRONT WORK AND LEVEE SYSTEM - CALIFORNIA
**DROP 2 STORAGE RESERVOIR
 CANAL AND STRUCTURES
 CONTROL BUILDING
 MASONRY DESIGN**
 PLAN - EL. 162.00 AND DETAILS

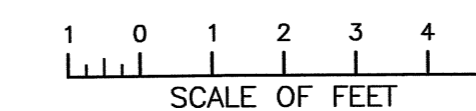
DESIGNED: Brendley D. Van Otterlo CHECKED: [Signature]
 DRAWN: Brendley D. Van Otterlo TECH. APPR: Paul M. Pucher, P.E.
 APPROVED: [Signature] P.E.
 PLANT STRUCTURES GROUP

DENVER, COLORADO 2008-04-04 **423-D-816**



NOTES

1. For Masonry Design General Notes, see (816).
2. For reinforced concrete building foundation, see (815).
3. Roof system not shown, to be designed by Contractor.
4. For Structural Design Data, see (816).
5. Use lintel block over openings.
6. Extension for a 90° standard hook shall not be less than 7 1/2".



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COLORADO RIVER FRONT WORK AND LEVEE SYSTEM - CALIFORNIA

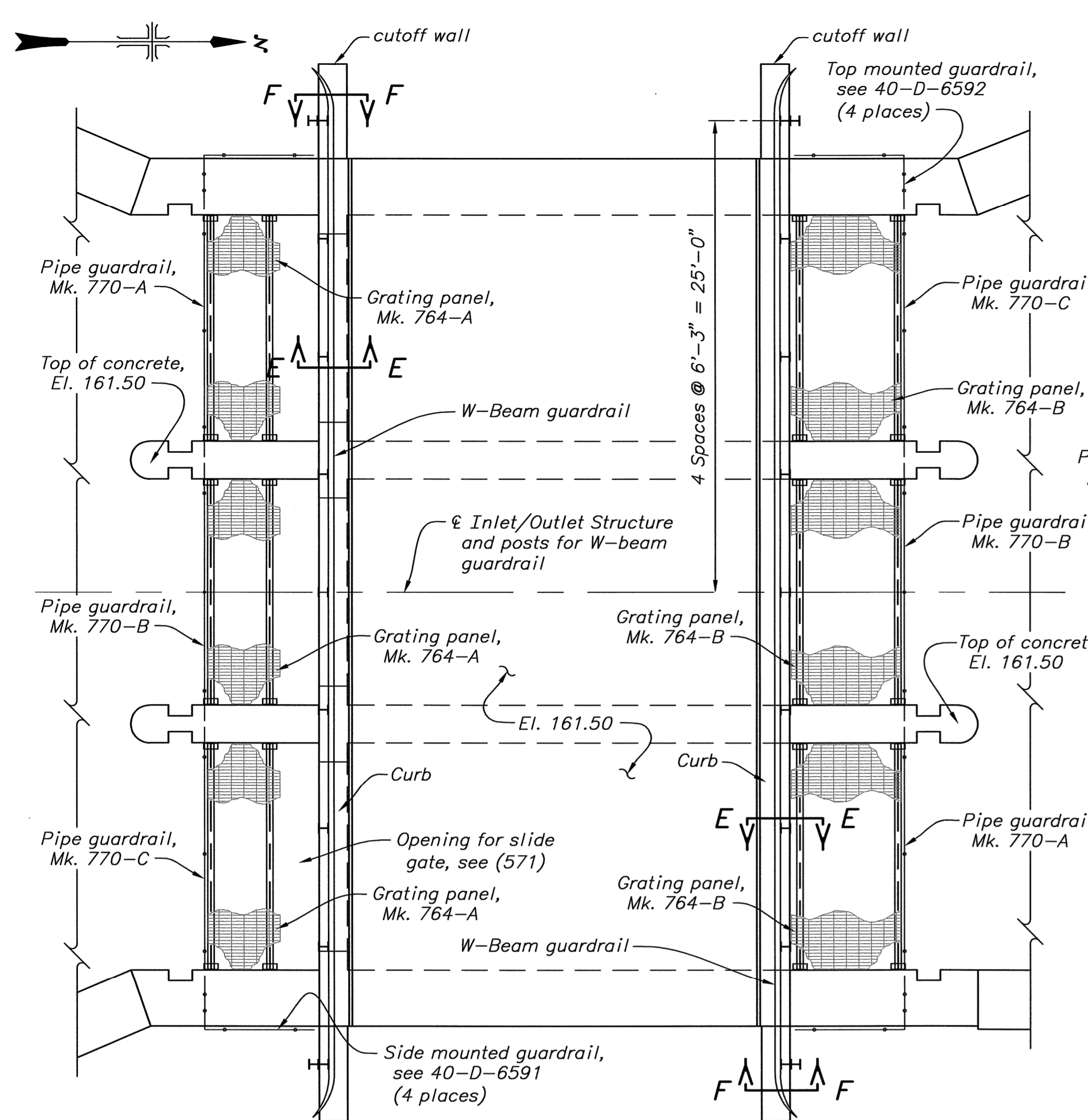
**DROP 2 STORAGE RESERVOIR
CANAL AND STRUCTURES**

**CONTROL BUILDING
MASONRY DESIGN
SECTIONS**

DESIGNED *Bradley D. VanOttendor* CHECKED *[Signature]*
 DRAWN *Bradley D. VanOttendor* TECH. APPR. *Paul M. Ruch* P.E.
 APPROVED *[Signature]* P.E.
 PLUM STRUCTURES GROUP

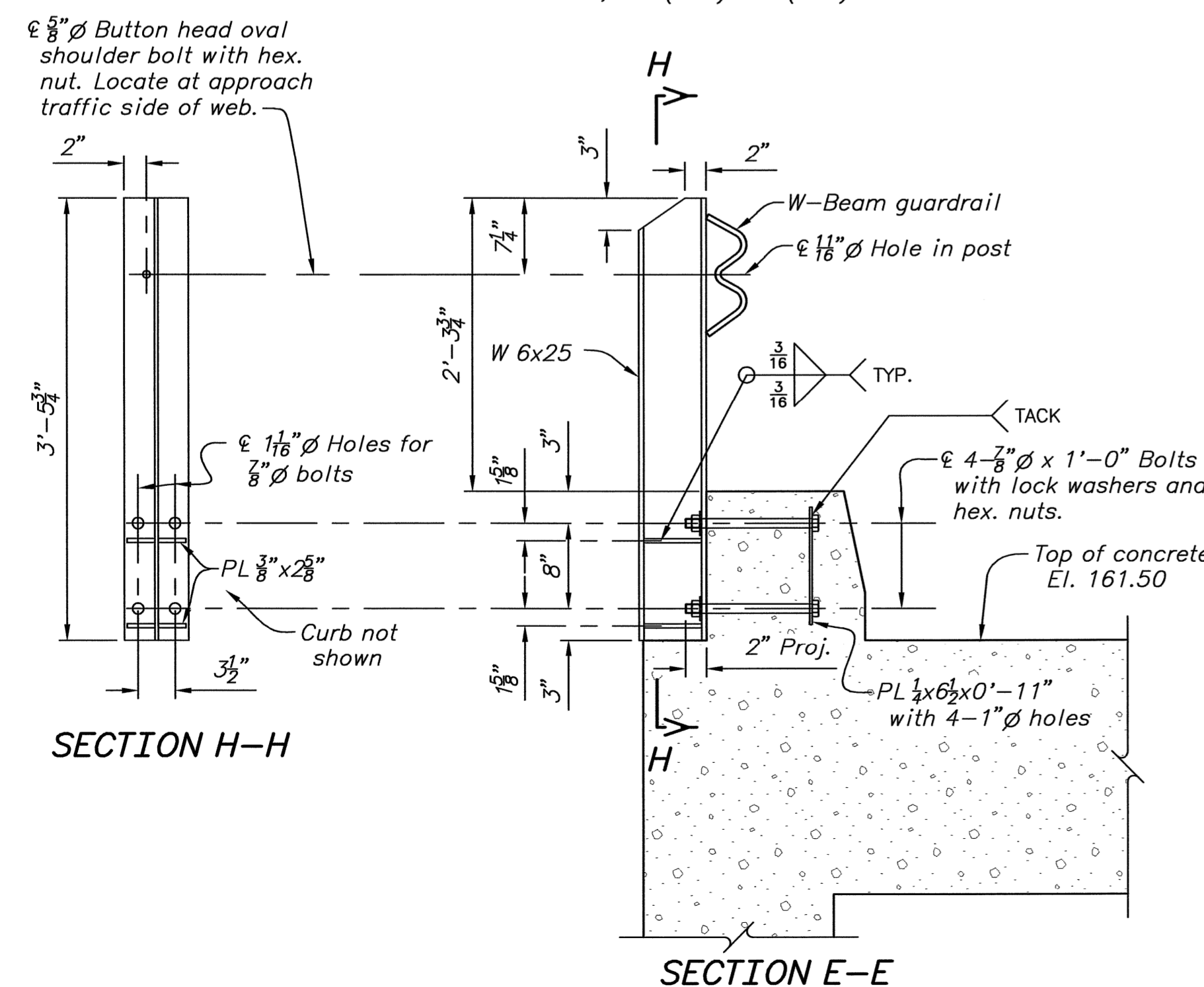
DENVER, COLORADO 2008-04-04
 SHEET 1 OF 1 **423-D-817**

DATE AND TIME PLOTTED: APRIL 3, 2008 11:18
 PLOTTED BY: BIANOTERLO
 CAD SYSTEM: AutoCAD R14.16.1s
 ARCAD R14.16.1s
 423-D-817 MASONRY DESIGN SECTIONS.DWG



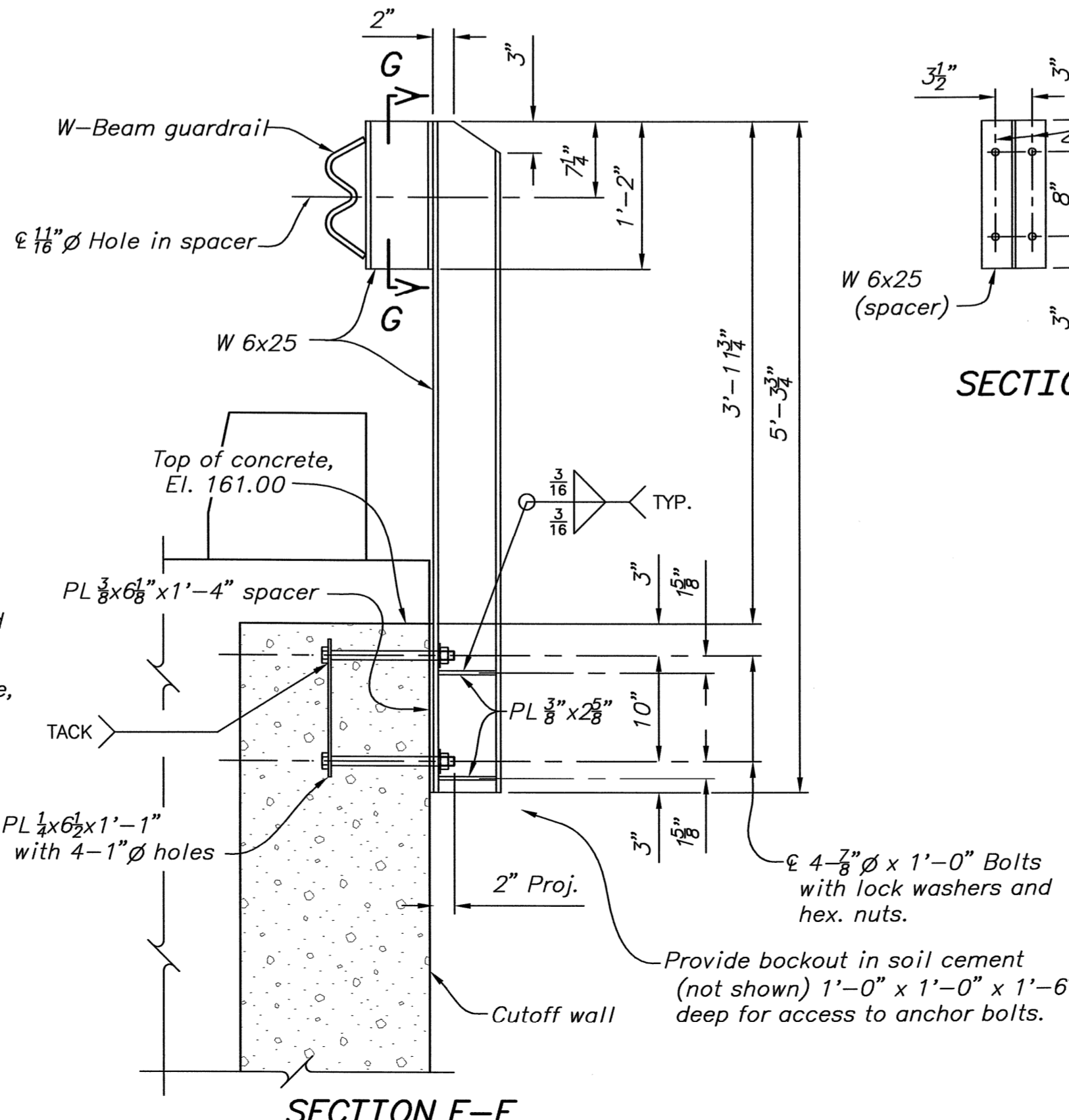
PARTIAL PLAN - INLET/OUTLET STRUCTURE

No. 2 (AS SHOWN)
No. 1 (OPP. HAND)
For reference, see (698) and (699).

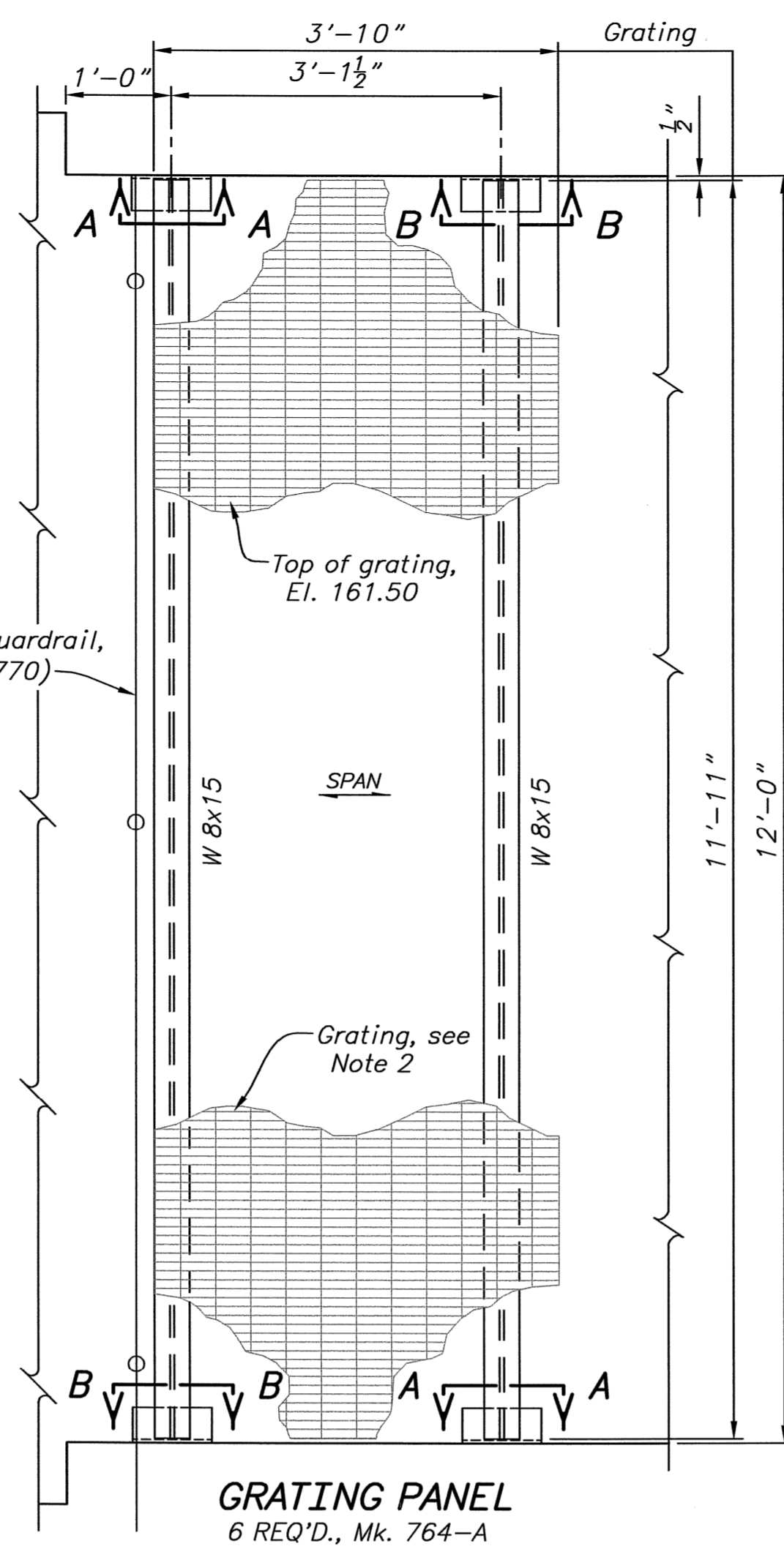


SECTION H-H

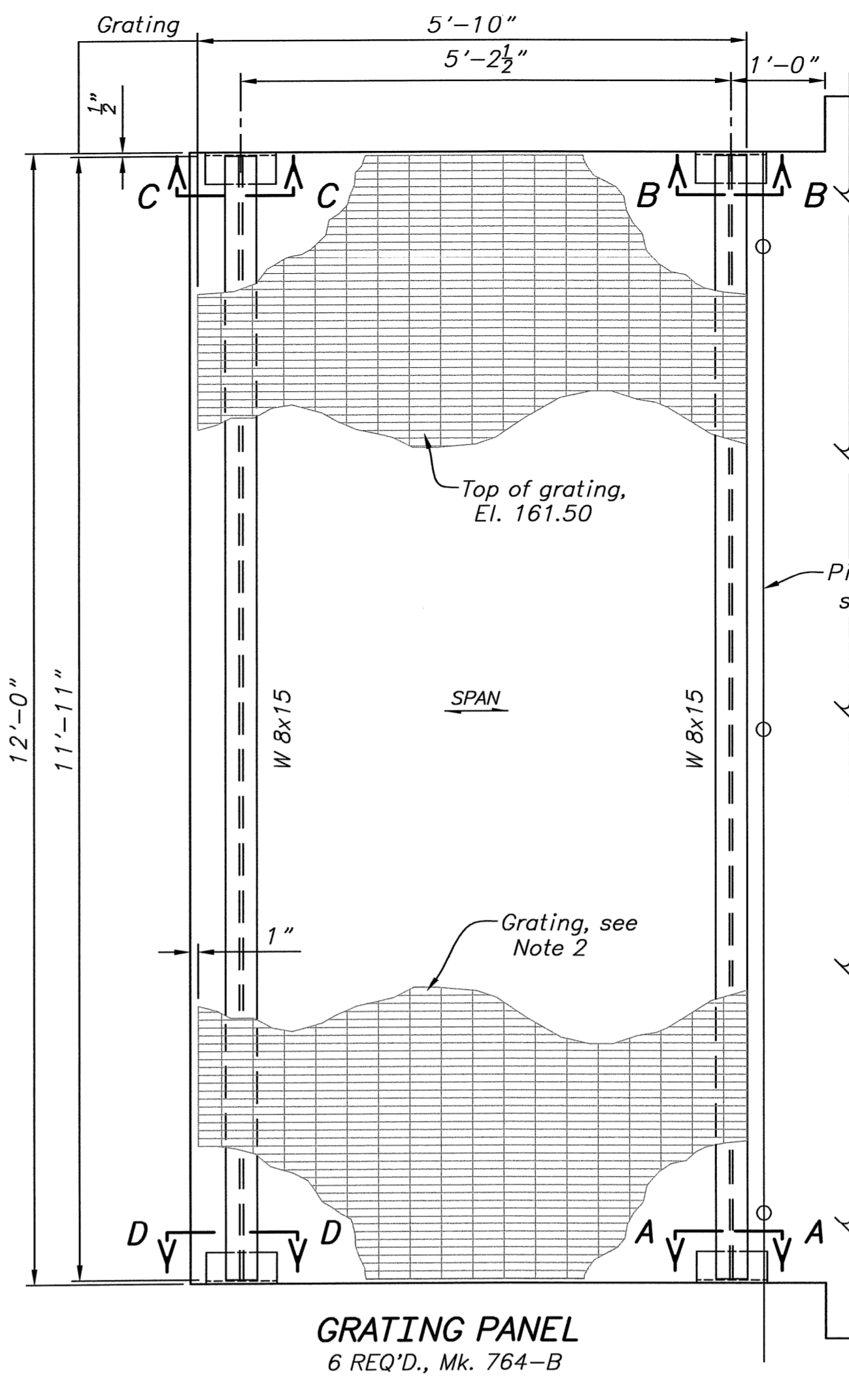
SECTION E-E



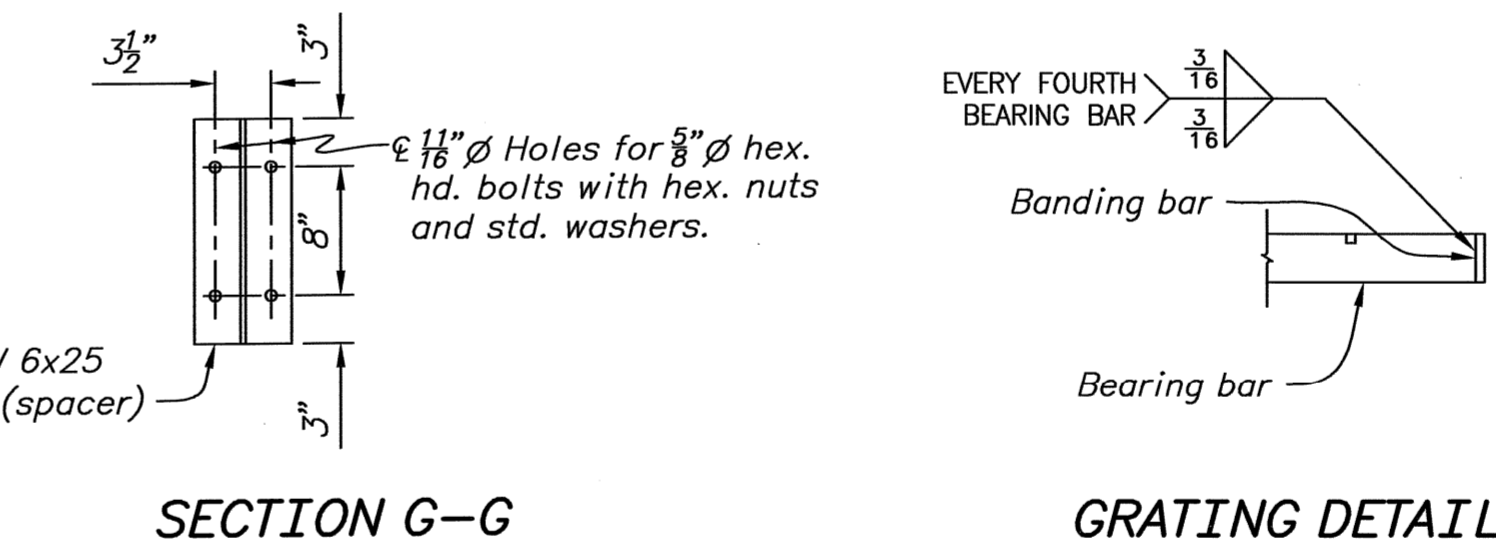
SECTION F-F



GRATING PANEL
6 REQ'D., Mk. 764-A

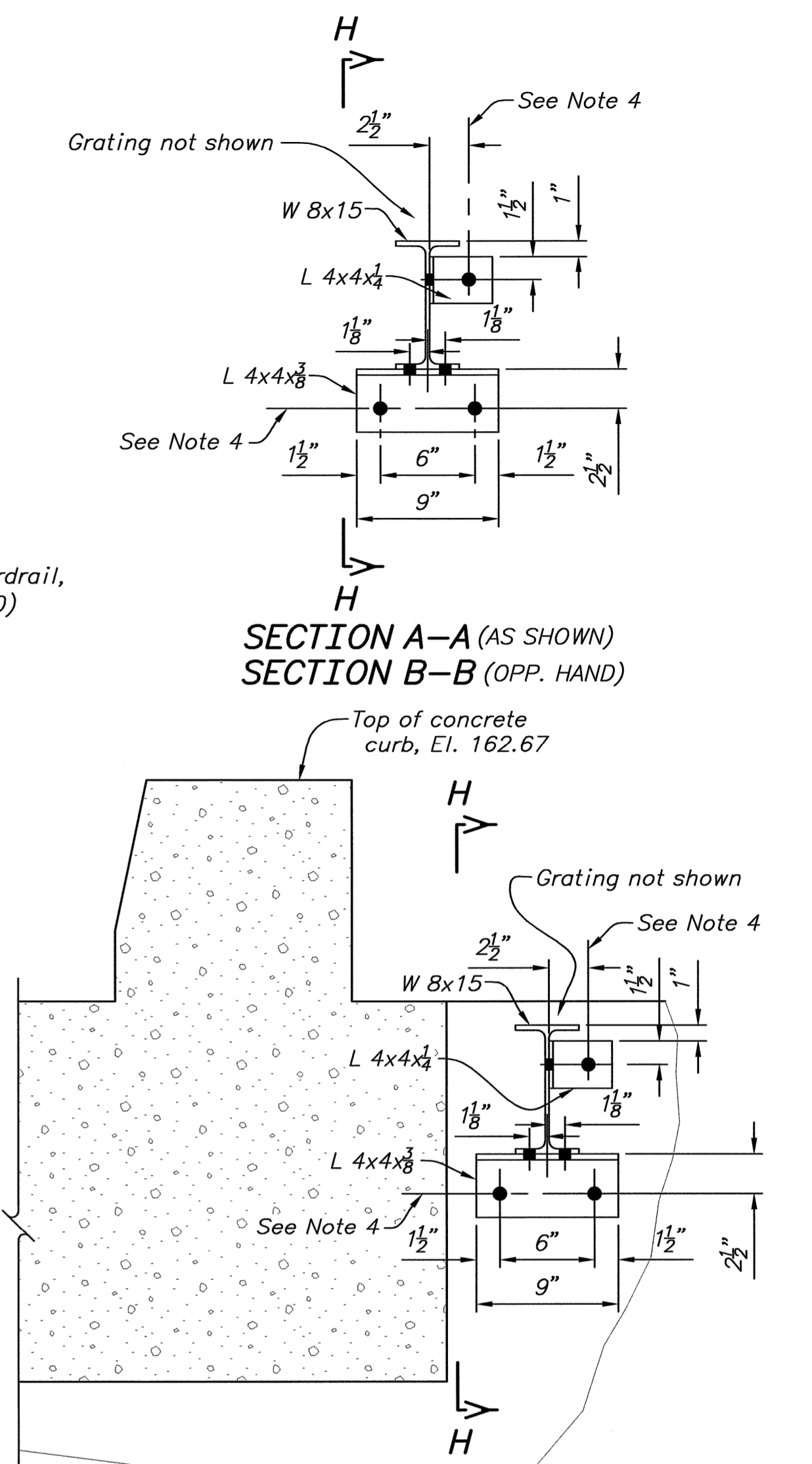


GRATING PANEL
6 REQ'D., Mk. 764-B



SECTION G-G

GRATING DETAIL



SECTION C-C (AS SHOWN)
SECTION D-D (OPP. HAND)

NOTES

1. For General Notes, see (768).
2. Use grating with bearing bars 1 1/2" x 3/8" @ 1 3/8" on centers and cross bars @ 4" on centers. Banding bars same size as bearing bars. Provide grating panels in widths not to exceed 2'-6". Allow 1/8" max. between grating panels. Fasten each grating panel to W-shapes with four standard grating clips.
3. Design live load for grating is 100 psf.
4. 1 1/8" diameter holes in angle for 5/8" adhesive anchors with 7/8" minimum embedment.
5. 1 1/8" x 1" slotted holes in W8x15 and 1 1/8" holes in angles for 3/8" hex. hd. bolts with hex. nuts and std. washers.

ALWAYS THINK SAFETY

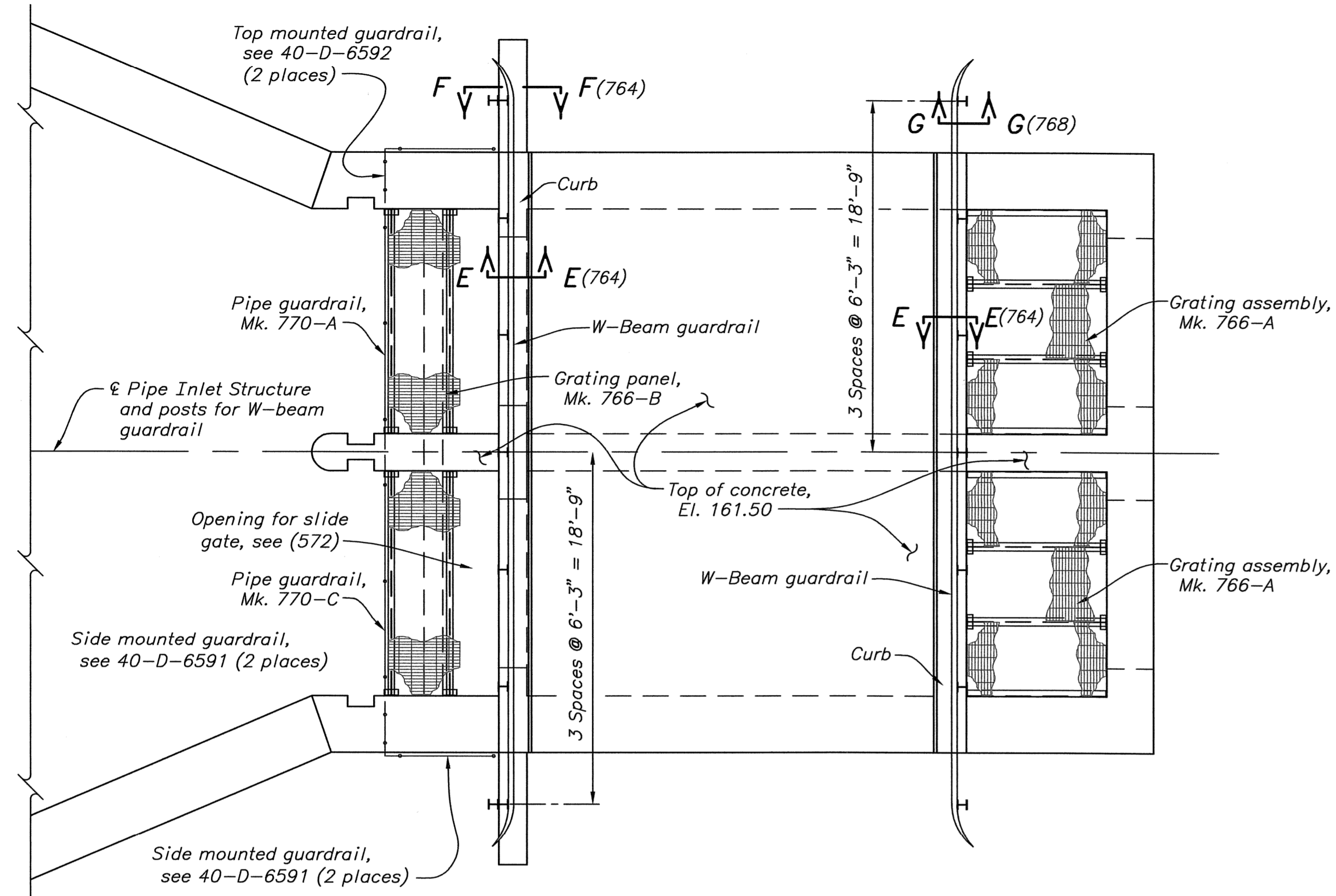
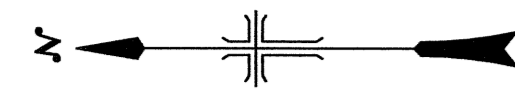
U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION

COLORADO RIVER FRONT WORK AND LEVEE SYSTEM - CALIFORNIA
DROP 2 STORAGE RESERVOIR
CANAL AND STRUCTURES
INLET/OUTLET STRUCTURE
MISCELLANEOUS METALWORK AND W-BEAM GUARDRAIL
GRATED WALKWAYS - PLAN AND SECTIONS

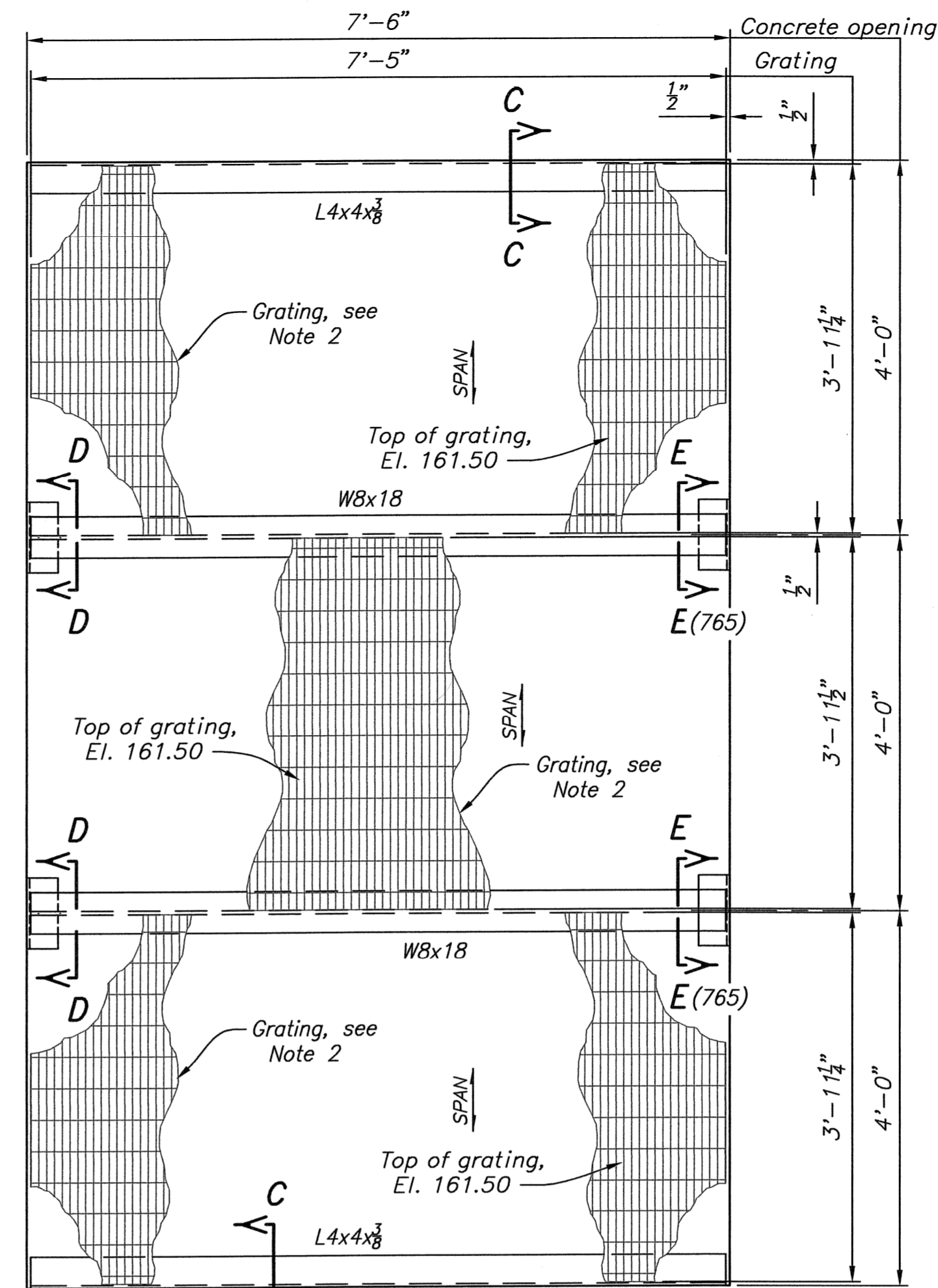
DESIGNED *Bernard J. ...* CHECKED *Bradley D. Van ...*
DRAWN *Bernard J. ...* TECH. APPR. *Clifford ... P.E.*
APPROVED *[Signature]* P.E.
PLANNING STRUCTURES GROUP

DENVER, COLORADO SHEET 1 OF 1 2008-04-04 **423-D-764**

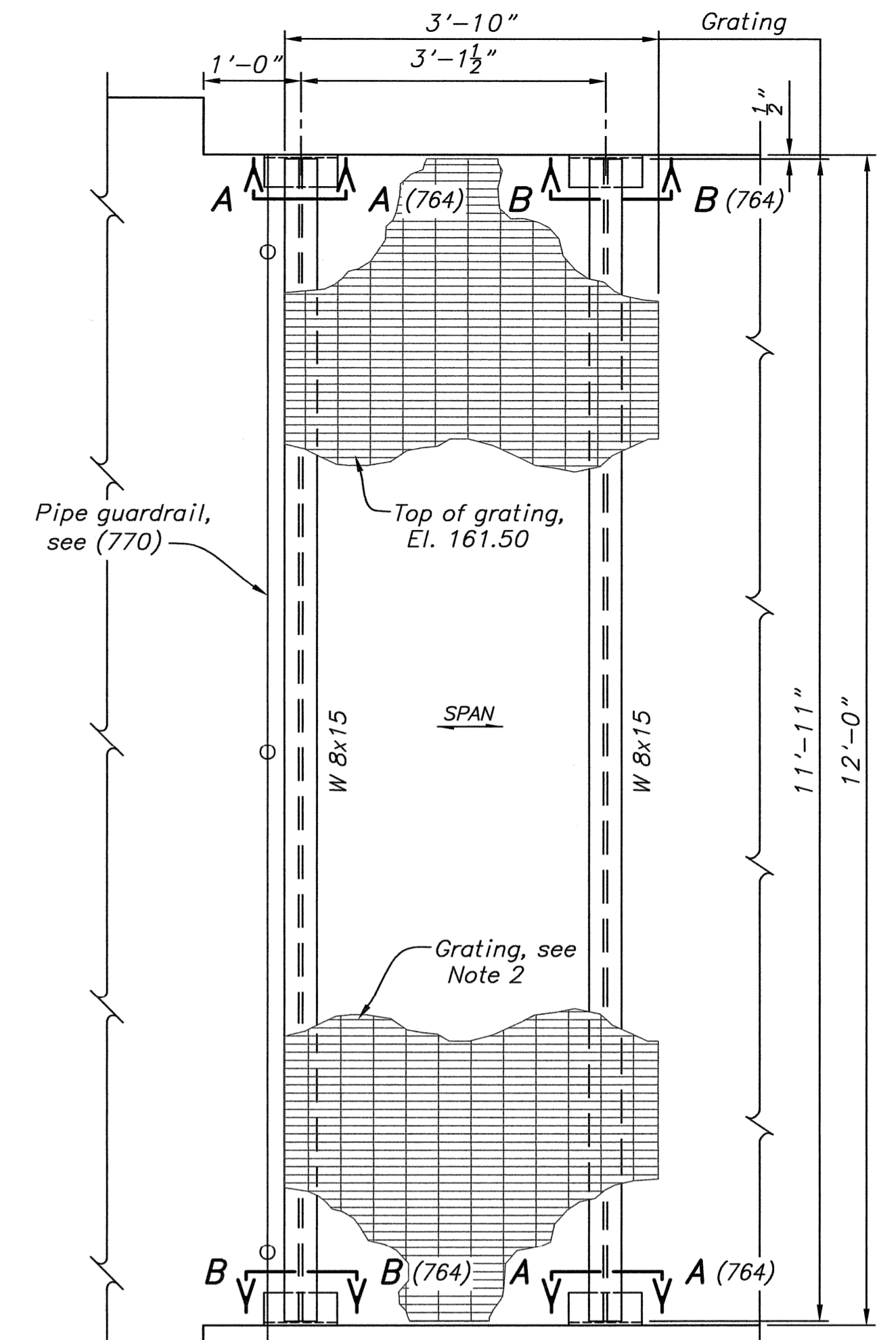
DATE AND TIME PLOTTED: APR. 14, 2008 11:59
 PLOTTED BY: BRANTERLOO
 CUP SYSTEM: 16:18
 AUGUST 2008
 CAD FILENAME: 423-D-764 INLET - OUTLET STRUCTURING



PARTIAL PLAN - PIPE INLET STRUCTURE
For reference, see (698) and (704).



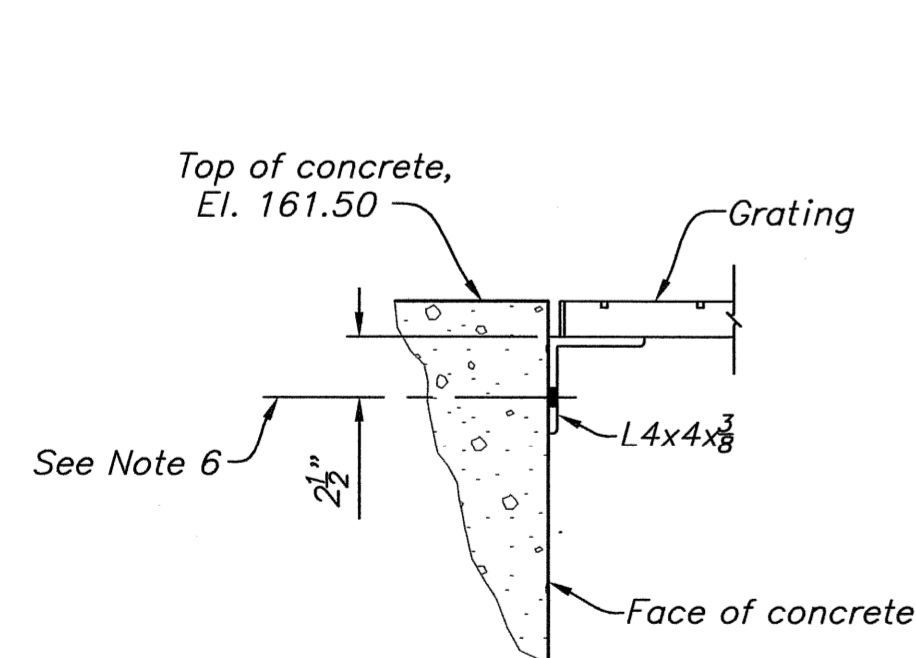
GRATING ASSEMBLY
TWO REQ'D., Mk. 766-A



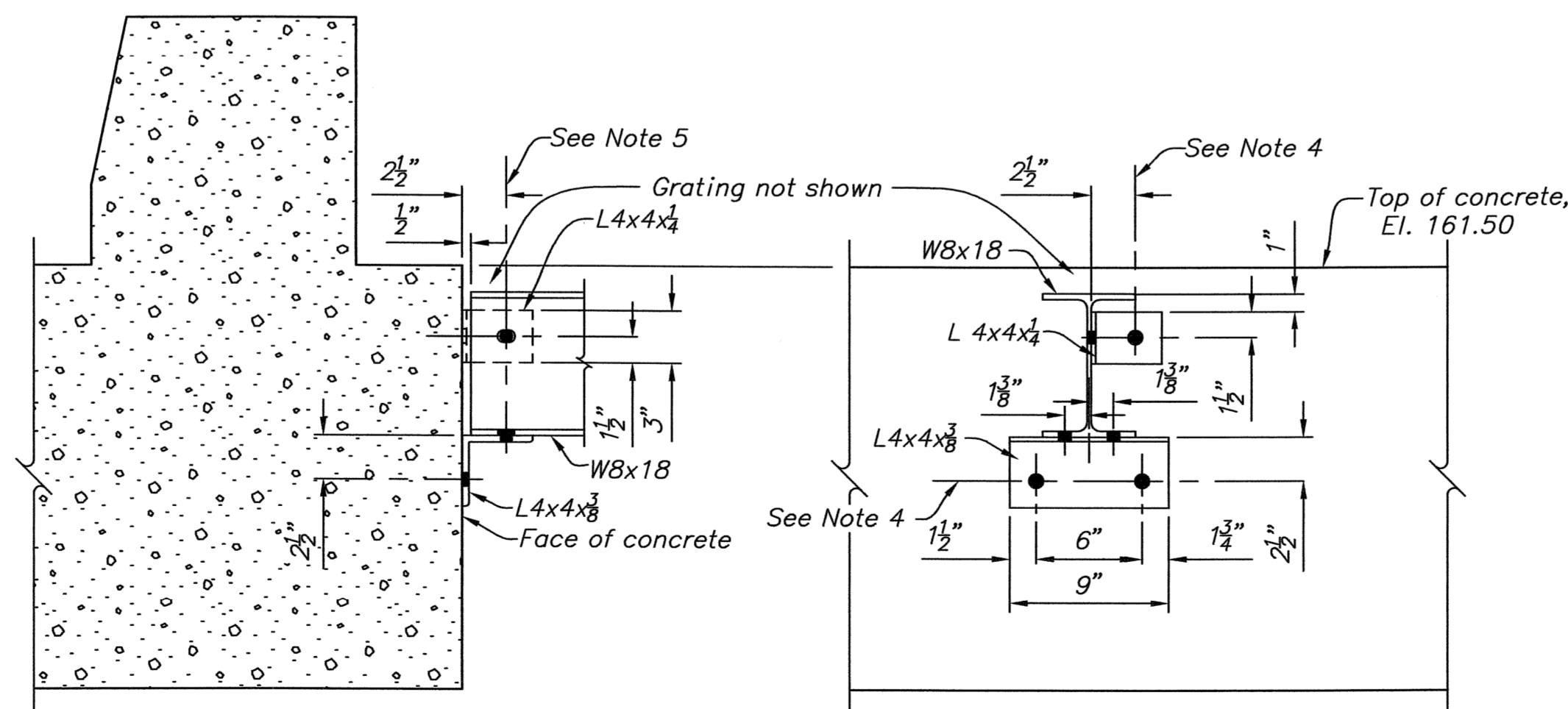
GRATING PANEL
TWO REQ'D., Mk. 766-B

NOTES

1. For General Notes, see (768).
2. Use grating with bearing bars $1\frac{1}{2}'' \times \frac{3}{8}'' @ 1\frac{3}{8}''$ on centers and cross bars @ 4" on centers. Banding bars same size as bearing bars. Provide grating panels in widths not to exceed 2'-6". Allow $\frac{1}{8}''$ max. between grating panels unless noted otherwise. Fasten each grating panel to W-shapes and angles with four standard grating clips.
3. Design live load for grating is 100 psf.
4. $\frac{1}{8}'' \times \frac{3}{8}''$ Holes in angle for $\frac{5}{8}''$ adhesive anchors with $7\frac{1}{2}''$ minimum embedment.
5. $\frac{1}{8}'' \times 1''$ Slotted holes in W8x18 and $\frac{1}{8}'' \times \frac{3}{8}''$ holes in angles for $\frac{5}{8}''$ hex. hd. bolts with hex. nuts and std. washers.
6. $\frac{1}{8}'' \times \frac{3}{8}''$ Holes in angle @ 3'-0" max. on centers for $\frac{5}{8}''$ adhesive anchors with $5\frac{3}{8}''$ minimum embedment. Locate first hole 3" from each end of angle.
7. For typical grating detail, see (764).



SECTION C-C (THIS SHEET, 765)



SECTION D-D

CAD SYSTEM: AUCSCAD R11.16.1s
 DATE AND TIME PLOTTED: APRIL 16, 2008 11:24
 PLOTTED BY: BIANOTERLOO
 CAD FILENAME: 423-D-766 PIPE INLET STRUCTURE.DWG

ALWAYS THINK SAFETY	
U.S. DEPARTMENT OF THE INTERIOR BUREAU OF RECLAMATION COLORADO RIVER FRONT AND LEVEE SYSTEM - CALIFORNIA DROP 2 STORAGE RESERVOIR CANAL AND STRUCTURES PIPE INLET STRUCTURE MISCELLANEOUS METALWORK AND W-BEAM GUARDRAIL GRATED WALKWAYS - PLAN AND SECTIONS	
DESIGNED: <i>Bernard J. Jyniadis</i>	CHECKED: <i>Brendan D. Van Alstede</i>
DRAWN: <i>Bernard J. Jyniadis</i>	TECH. APPR. <i>Debra M. Huxley, P.E.</i>
APPROVED: <i>W. J. L. P. P.E.</i>	
PLANT STRUCTURES GROUP	
DENVER, COLORADO	2008-04-04
SHEET 1 OF 1	423-D-766