

Ann Edwards
County Executive



David Defanti
Deputy County Executive
Community Services

Airports
Cindy Nichol - Director

County of Sacramento

October 23, 2023

To: Prospective Proposers

From: Michael Winans
Airport Economic Development Specialist
Sacramento County Department of Airports

**Subject: Addendum #1 – RFP for APM Guideway Structural
Engineering Inspection Services at Sacramento
International Airport**

This addendum provides responses to questions submitted prior to the designated deadline in the RFP referenced in the subject line.

The Sacramento County Department of Airports (Department) received four (4) questions in response to the RFP. Listed below are the questions and responses. The questions listed are in the exact format received by the Department, with no corrections made for spelling or grammar.

#	Question	Response
1	Have there been any previous inspections of the guideway that can be made available?	An inspection from last year is included as Attachment 1 to this addendum.
2	Are structural drawings for the guideway available?	A structural drawing for the guideway is included as Attachment 2 to this addendum.
3	Does access to the guideway for the inspections require badging or security check?	For areas where there are badge requirements, the contractor will be escorted by Airport staff.

4	Can all the inspections be done during normal business hours?	All routine inspections can be done during typical business hours. Emergency inspections may be required at any time.
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There are no further modifications or clarifications to the RFP at this time.

Regards,



Michael Winans
Airport Economic Development Specialist

Attachments:

- 1 – Inspection Report Example
- 2 – APM Guideway Structural Drawing

ATTACHMENT 1
Inspection Report Example
COVER PAGE

BRIDGE INSPECTION REPORT

Inspection Date: **05/11/2022**

Route: **N/A**

Milepost: **N/A**

Structure No:

SMF-APM-B-001

INSPECTION TYPE:

ROUTINE



Terminal B APM Elevated Guideway OVER Airport Blvd, Striped Road, Viaduct
Sacramento County, CA

INSPECTION TEAM LEADER:

Jon Sampson

(Signature)

(Date)

OWNER:

(Signature)

(Date)

 **MARK
THOMAS**

701 University Avenue, Suite 200
Sacramento, CA 95825
(916) 381-9100



RAIL BRIDGE IDENTIFICATION AND LOCATION

Structure Name:	Terminal B APM Elevated Guideway			Structure No:	SMF-APM-B-001
Route:	N/A	Milepost:	N/A	Feature Crossed:	Airport Blvd, Striped Road, Viaduct

BRIDGE DESCRIPTION and MEASUREMENTS

Year Built:	2011	Description:	People Mover Between Terminal B and Concourse B		
Overall Br Length:	910.5	Max Span:	101.00	Vertical Below:	10.00
Track Width (Opening min):	13.1	Deck Width (max):	63.00	Vertical Above:	99.99
Walkway Width (min.):	13.99			Skew:	0.00
Direction of Traffic:	Bi-Directional		Tracks on the Structure:	2	
Deck Structure Type:	Concrete Slab integral with Superstructure		Wearing Surface:	Concrete Pedestal	
No. Main Spans:	13	Superstr Material:	Concrete	Superstr Type:	Prestressed Box Girder/Prestressed Slab
No. Appr Spans:	0	Appr. Superstr Mat'l:	N/A	Superstr Type:	N/A
No. Substrs:	14	Substr Material:	Concrete	Substr Type:	Piers & Bent Caps

INSPECTION INFORMATION

Date:	05/11/2022	Time Started:		Time Completed:	
Inspection Team:	Marshall Moore, Samantha Hight		Leader:	Jon Sampson	
Weather:	Sunny		Latitude:	38.69373000	Longitude: -121.59217000
Location:	Tram between Terminal B and Concourse B			Str. Life Remaining	64 Years
Recommended Inspection Frequency:	12	Months	Inspection Cost		
Inspection Done By:	Consultant		Inspection Done By Name:	Mark Thomas	
Summary of Findings:	Deck:	7	Superstructure:	7	Substructure: 7

Critical Findings:

None noted.

Narrative Report: (Add additional sheets if necessary)

This structure supports two automated people movers, each on its own track. The structure is oriented predominately in a N/S direction with Concourse B to the North and Terminal B to the South. It was noted that the plywood was removed. It was also noted that a few of the drains on the top underneath the track pilasters were in need of cleaning. Drains that were cleaned had debris left around the drain that could cause more clogging. Said debris should be removed. It is recommended that the next inspection be carried out within a week of the track cleaning. For future inspections, bring a marking crayon to mark column numbers for pictures. Also bring binoculars. Cracks are checked with crack width rulers and comparing crack patterns to previous year pictures.

Structure Name: Terminal B APM Elevated Guideway			Date: 05/11/2022
Route: N/A		Milepost: N/A	Structure No.: SMF-APM-B-001
CONDITION CODES and REMARKS			
(Overall Code for item)		CODE/COND.	REMARKS
58. DECK/WALKWAY:		7	
* 1.	Deck Slab	Good	The Concourse end has substantial cracking. Many already filled.
C1.	Deck Joints	Fair	Joints are delaminating and need to be cleaned.
C2.	Sidewalks	Good	
C3.	Drains and Drainage	Good	
C4.	Cleanliness	Good	Many deck drains were cleaned, but debris was left on the deck. Clean.
C5.	Utilities	Good	
Span #	Element	Condition	Remarks
13	Joint	Good	Concrete over joint shows deformation and cracking.
		Select	
		Select	
		Select	
		Select	
		Select	
		Select	
		Select	
		Select	
		Select	
		Select	
		Select	
		Select	
		Select	
		Select	
59. SUPERSTRUCTURE:		7	
* 1.	Girder	Good	
C1.	Bearing Devices	Select	Bearings are not visible
C2.	Deflection Under Load	Good	None noted
C3.	Vibration Under Load	Good	None noted
Span #	Element	Condition	Remarks
13	Slab	Good	Efflorescence noted on East exterior girder, West sim.
12 & 13	West Ext. Parapet	Good	Efflorescence noted on side
11	Girder	Good	Evidence of several high load scrapes on bottom of slab. Signage in place.
10	Slab	Good	Stalagmite on bottom of slab
8 & 9	Spans	Good	Both spans have moved away from Bent 9. Span 8 > 1", Span 9 < 1" (est.)
8	Girder	Good	Cracking noted approx. telescoping where tendons may be.
4 - 9	Slab	Good	Pattern transverse cracking at 2' to 3' spacing. Efflorescence noted.
2, 3, & 4	Guideway	Good	Wearing on concrete guideways. Aggrigate exposed near curves.
1	Slab	Good	Efflorescence noted
		Select	
		Select	
		Select	
		Select	

* Only these items are used in the determination of the overall condition rating for that category, i.e. Deck, Superstructure, Substructure.

CONDITION RATING OF EACH MEMBER OR ELEMENT

- N/A
- NOT APPLICABLE
- G = GOOD
- ELEMENT IN NEW OR GOOD CONDITION WITH NO REPAIRS NECESSARY.
- F = FAIR
- ELEMENT IS STILL PERFORMING THE FUNCTION FOR WHICH IT WAS INTENDED BUT MAY NEED MAINTENANCE.
- P = POOR
- ELEMENT IS PERFORMING AT REDUCED CAPACITY.

Structure Name: Terminal B APM Elevated Guideway			Date: 05/11/2022
Route: N/A	Milepost: N/A	Structure No.: SMF-APM-B-001	
CONDITION CODES and REMARKS (cont.)			
(Overall Code for item)		CODE/ COND.	REMARKS
60. SUBSTRUCTURE:		7	
* 1.	Piers Alignment (Tipping, Tilting)	Good	
* 2.	Piers Bearing Seats	Good	
* 3.	Piers Caps	Good	
Bent #	Element	Condition	Remarks
14	Columns (both)	Good	Columns have horizontal cracks.
14	Bent	Good	Bent has a vertical crack near West and East columns
13	Columns (both) & Bent	Good	Diagonal shear cracking of bent cap near columns. Some efflorescence noted.
12	Columns (both) & Bent	Good	Similar crack patterns noted at Bent 12 as Bent 13. Some efflorescence noted.
12	Bent	Good	Stalagtite on bottom of bent
12	Bent	Good	Substantial vertical cracking in bent cap
11	Columns	Good	West column has more substantial cracking than others.
11	Bent	Good	Bent has a stalactite hanging down from a crack.
rem.	Columns	Good	Cracking was noted on all remaining columns.
10	East Column	Good	Cracking at top
9	Bent West Side	Good	Cracking at corner of corbel
7	Bent	Good	Staining present near weap hole but not originating from weap hole.
3, 4, & 5	Columns (both)	Good	Staining at the bottoms of columns. Redirect sprinkler spray away from columns.
4	Bent	Good	Crack was noted coming off of re-entrant corner of corbel. Monitor during routine
4	Bent	Good	Efflorescence noted on side
1	Bent	Good	On the East side there is a large amount of water evidence. Monitor during routine
1	Bent	Good	Take picture of water evidence during next routine inspection
		Select	
		Select	
		Select	
		Select	
		Select	
		Select	
		Select	
		Select	
		Select	

* Only these items are used in the determination of the overall condition rating for that category, i.e. Deck, Superstructure, Substructure.

CONDITION RATING OF EACH MEMBER OR ELEMENT

N/A	-NOT APPLICABLE
G = GOOD	-ELEMENT IN NEW OR GOOD CONDITION WITH NO REPAIRS NECESSARY.
F = FAIR	-ELEMENT IS STILL PERFORMING THE FUNCTION FOR WHICH IT WAS INTENDED BUT MAY NEED MAINTENANCE.
P = POOR	-ELEMENT IS PERFORMING AT REDUCED CAPACITY.

[illegible]

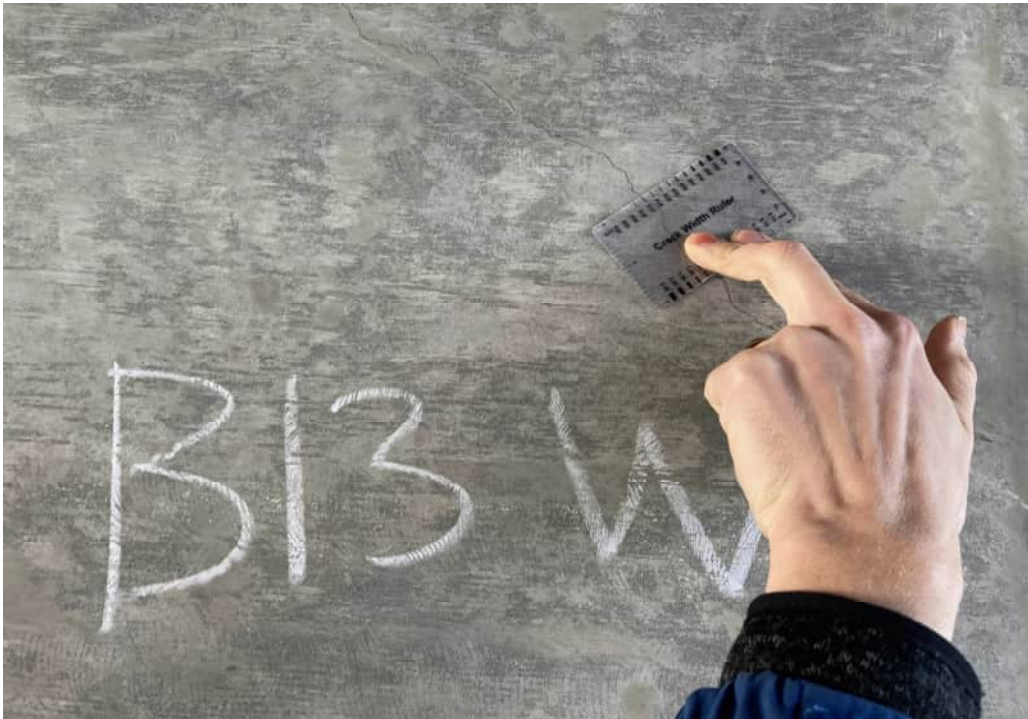
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Structure Name:	Terminal B APM Elevated Guideway	Date:	05/11/2022
Route:	N/A	Milepost:	N/A
			SMF-APM-B-001

BRIDGE PHOTOS



Bent Cap 14 East Side



Bent Cap 13 West Side

Structure Name:	Terminal B APM Elevated Guideway	Date:	05/11/2022
Route:	N/A	Milepost:	N/A
			SMF-APM-B-001

BRIDGE PHOTOS



Bent 13 West Face



Bent 12 West Side

Structure Name:	Terminal B APM Elevated Guideway	Date:	05/11/2022
Route:	N/A	Milepost:	N/A
			SMF-APM-B-001

BRIDGE PHOTOS



Bent 10 East Column



Column Cracking Bent 10 East Column

Structure Name:	Terminal B APM Elevated Guideway	Date:	05/11/2022
Route:	N/A	Milepost:	N/A
			SMF-APM-B-001

BRIDGE PHOTOS



Bent 8



Bent 8

Structure Name:	Terminal B APM Elevated Guideway	Date:	05/11/2022
Route:	N/A	Milepost:	N/A
			SMF-APM-B-001

BRIDGE PHOTOS



Bent 7



Crack at corbel Bent 4

Structure Name:	Terminal B APM Elevated Guideway	Date:	05/11/2022
Route:	N/A	Milepost:	N/A
			SMF-APM-B-001

BRIDGE PHOTOS



Pattern Transverse Cracking & Efflorescence in Spans 4 - 9



Sprinkler Staining on Columns at Terminal End

7



H : % 249 :9 0 ~ 4 20



% : % 249 :9

Structure Name:	Terminal B APM Elevated Guideway	Date:	05/11/2022
Route:	N/A	Milepost:	N/A
			SMF-APM-B-001

BRIDGE PHOTOS



Concrete over Joint at Concourse End



Joint Seal at Bent 9

Structure Name:	Terminal B APM Elevated Guideway	Date:	05/11/2022
Route:	N/A	Milepost:	N/A
			SMF-APM-B-001

BRIDGE PHOTOS



Joint Seal at Bent 9

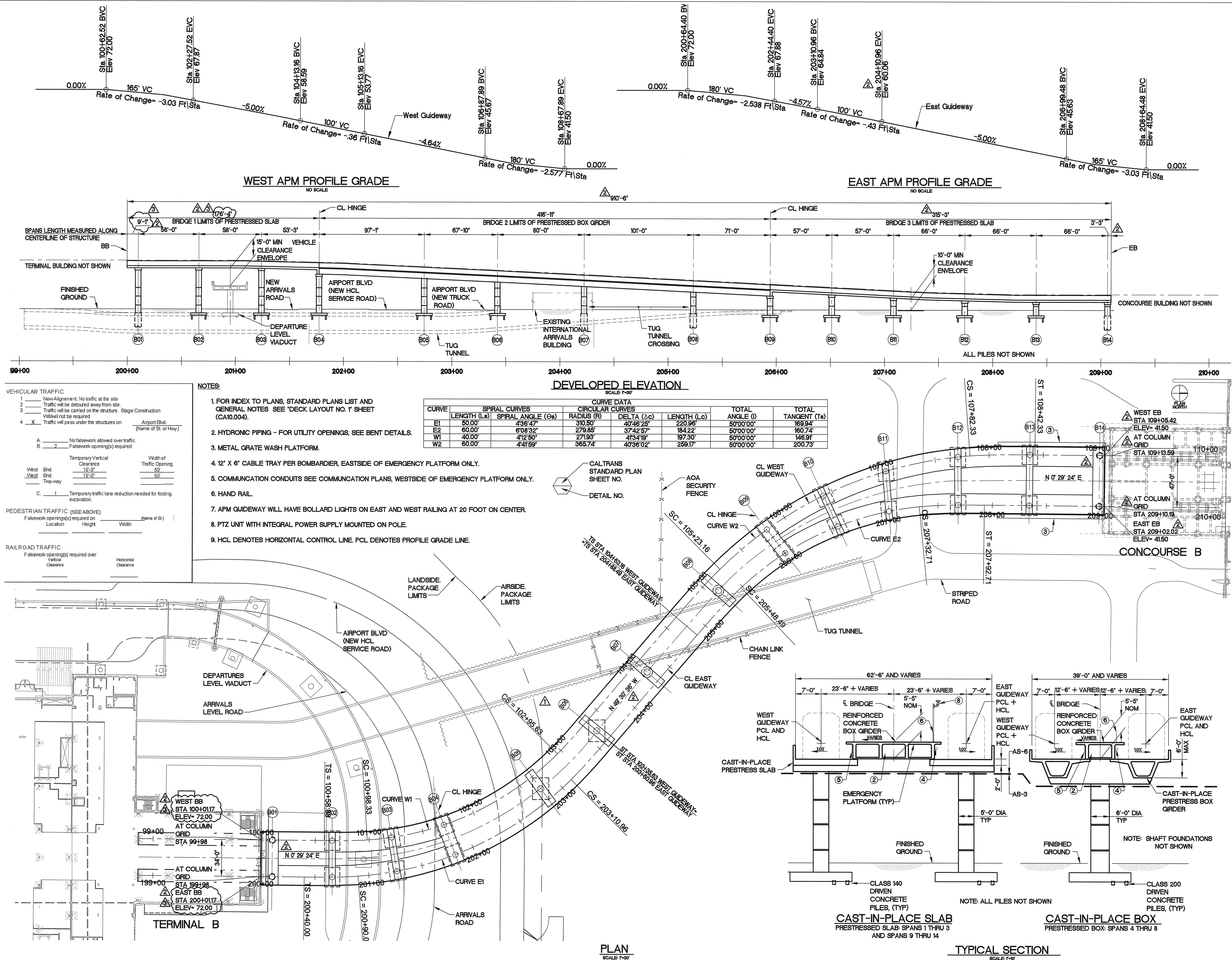


Cracking over Bent 12 Viewed from Track

ATTACHMENT 2

APM Guideway Structural Drawing

COVER PAGE

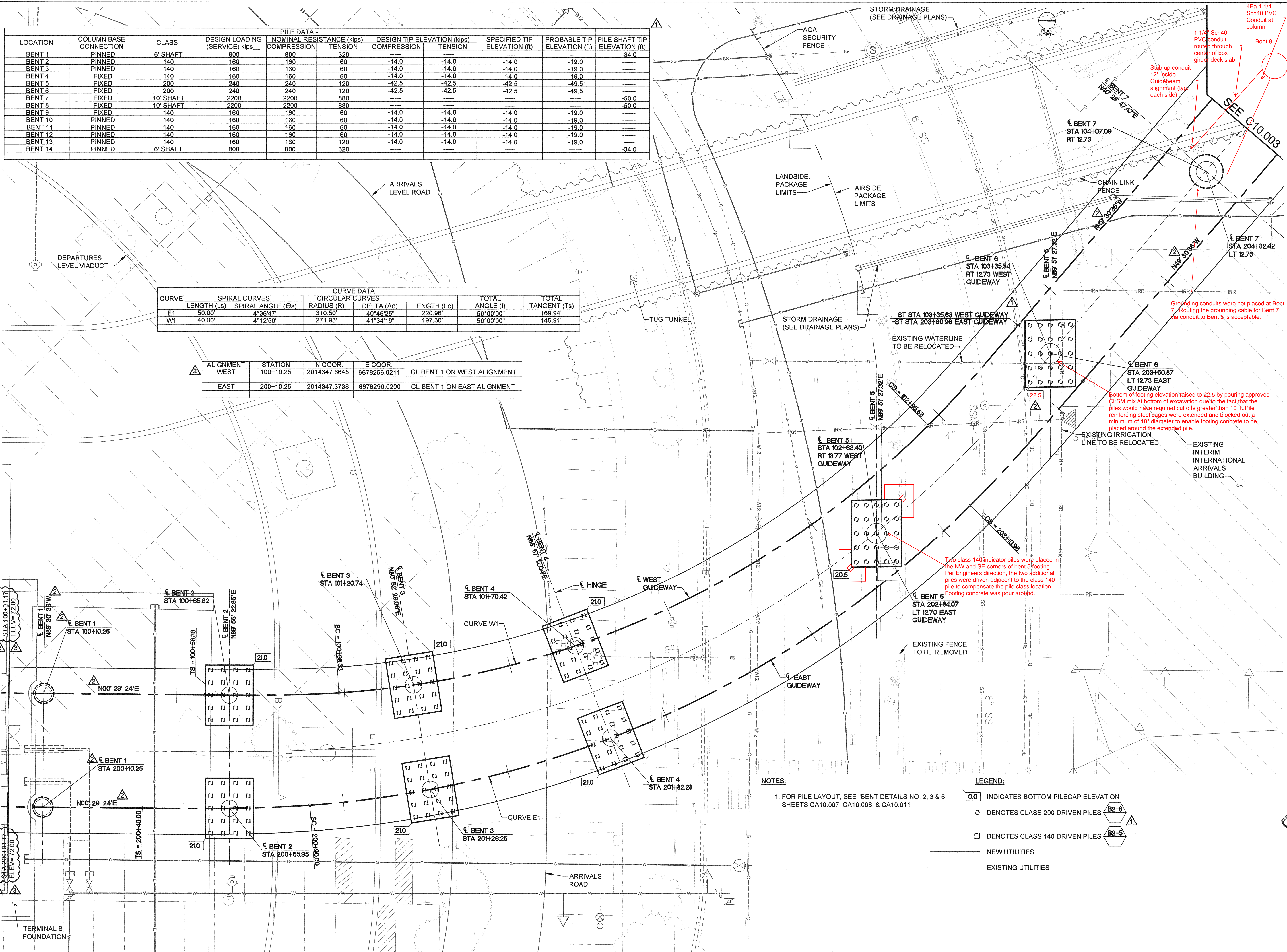


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LOCATION	COLUMN BASE CONNECTION	CLASS	DESIGN LOADING (SERVICE) kips	PILE DATA -		DESIGN TIP ELEVATION (kips) COMPRESSION	DESIGN TIP ELEVATION (kips) TENSION	SPECIFIED TIP ELEVATION (ft)	PROBABLE TIP ELEVATION (ft)	PILE SHAFT TIP ELEVATION (ft)
				NOMINAL RESISTANCE (kips) COMPRESSION	TENSION					
BENT 1	PINNED	6' SHAFT	800	800	320					
BENT 2	PINNED	140	160	160	60	-14.0	-14.0	-14.0	-19.0	
BENT 3	PINNED	140	160	160	60	-14.0	-14.0	-14.0	-19.0	
BENT 4	FIXED	140	160	160	60	-14.0	-14.0	-14.0	-19.0	
BENT 5	FIXED	200	240	240	120	-42.5	-42.5	-42.5	-49.5	
BENT 6	FIXED	200	240	240	120	-42.5	-42.5	-42.5	-49.5	
BENT 7	FIXED	10' SHAFT	2200	2200	880					-50.0
BENT 8	FIXED	10' SHAFT	2200	2200	880					-50.0
BENT 9	FIXED	140	160	160	60	-14.0	-14.0	-14.0	-19.0	
BENT 10	PINNED	140	160	160	60	-14.0	-14.0	-14.0	-19.0	
BENT 11	PINNED	140	160	160	60	-14.0	-14.0	-14.0	-19.0	
BENT 12	PINNED	140	160	160	60	-14.0	-14.0	-14.0	-19.0	
BENT 13	PINNED	140	160	160	120	-14.0	-14.0	-14.0	-19.0	
BENT 14	PINNED	6' SHAFT	800	800	320					-34.0

CURVE	SPIRAL CURVES		CIRCULAR CURVES			TOTAL ANGLE (I)	TOTAL TANGENT (Ts)
	LENGTH (Ls)	SPIRAL ANGLE (Θs)	RADIUS (R)	DELTA (Δc)	LENGTH (Lc)		
E1	50.00'	4°38'47"	310.50'	40°46'25"	220.96'	50°00'00"	169.94'
W1	40.00'	4°12'50"	271.93'	41°34'19"	197.30'	50°00'00"	146.91'

ALIGNMENT	STATION	N COOR.	E COOR.	
WEST	100+10.25	2014347.6645	6678256.0211	CL BENT 1 ON WEST ALIGNMENT
EAST	200+10.25	2014347.3738	6678290.0200	CL BENT 1 ON EAST ALIGNMENT



NOTES:

1. FOR PILE LAYOUT, SEE "BENT DETAILS NO. 2, 3 & 6 SHEETS CA10.007, CA10.008, & CA10.011

LEGEND:

- 0.0 INDICATES BOTTOM PILECAP ELEVATION
- DENOTES CLASS 200 DRIVEN PILES
- DENOTES CLASS 140 DRIVEN PILES
- NEW UTILITIES
- EXISTING UTILITIES

PLAN
SCALE: 1"=10'



FENTRESS | ARCHITECTS

○ ISSUES
000 12.01.08 95% REVIEW
001 12.22.08 IFC DCN AS018
△ REVISIONS
001 03.02.09 DCN AS025
002 04.27.09 DCN AS035
003 06.26.09 DCN AS044

TERMINAL MODERNIZATION PROGRAM
AIRSIDE CONCOURSE B PROJECT

Central
TerminalB
Sacramento International Airport

02/02/12
RECORD DRAWINGS

APM ELEVATED
GUIDEWAY

FOUNDATION PLAN NO. 1
JOB: 05003.0000

SHEET:
CA10.002
REVISION NO: AS-003



○	ISSUES
000	12.01.08 95% REVIEW
001	12.22.08 IFC DCN AS018
△	REVISIONS
001	04.27.09 DCN AS035

TERMINAL MODERNIZATION PROGRAM
AIRSIDE CONCOURSE B PROJECT



02/02/12
RECORD DRAWINGS

APM ELEVATED
GUIDEWAY

FOUNDATION PLAN NO. 2

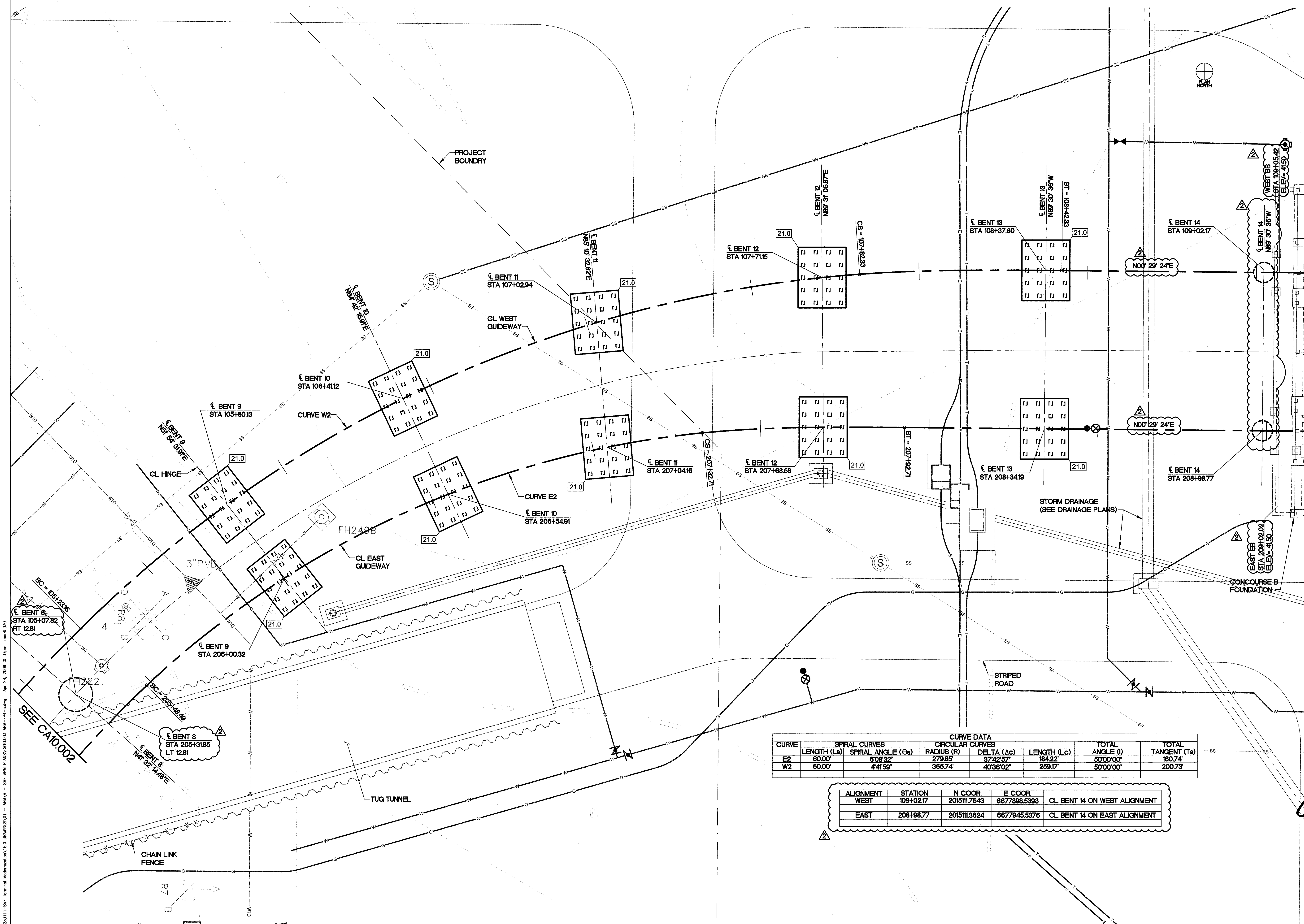
JOB: 05003.0000

DATE: 12.22.08

SHEET:

CA10.003

REVISION NO: AS-001



NOTES

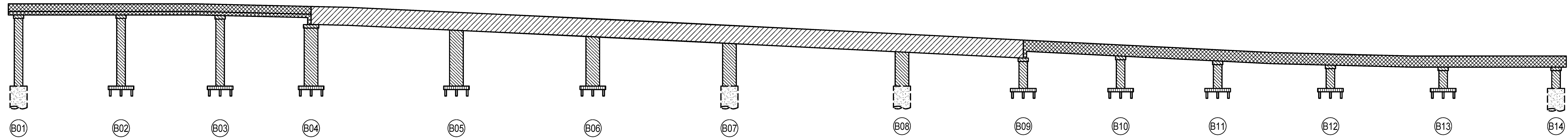
1. FOR PILE LAYOUT, SEE "BENT DETAILS NO. 3, CA10.008" AND "BENT DETAILS NO. 6, CA10.011".
2. DECK DRAINAGE SHALL BE ALONG EAST GUIDEWAY COLUMNS.

LEGEND:

- 00.0 INDICATES BOTTOM PILECAP ELEVATION
[] DENOTES CLASS 140 DRIVEN PILE (B2-5)

PLAN
SCALE: 1"=10'

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INDEX TO PLANS

CA10.001 General Plan
CA10.002 Foundation Plan No. 1
CA10.003 Foundation Plan No. 2
CA10.004 Deck Layout No. 1
CA10.005 Deck Layout No. 2
CA10.006 Bent Details No. 1
CA10.007 Bent Details No. 2
CA10.008 Bent Details No. 3
CA10.009 Bent Details No. 4
CA10.010 Bent Details No. 5
CA10.010A Bent Details No. 6
CA10.011 Bent Grades
CA10.012 Typical Section APM
CA10.013 Girder Layout - APM and Platform
CA10.014 Camber Diagram
CA10.015 Prestressing Details
CA10.016 Guideway Longitudinal Mild Reinforcement
CA10.017 Grid Grades Bridge 1 and 3
CA10.018 Grid Grades Bridge 2
CA10.019 Building - Guideway Interface
CA10.020 Drainage Details
CA10.021 Restrainer Detail No. 1
CA10.022 Restrainer Detail No. 2
CA10.023 Guideway Wash Platform Details

LIST OF STANDARD PLANS

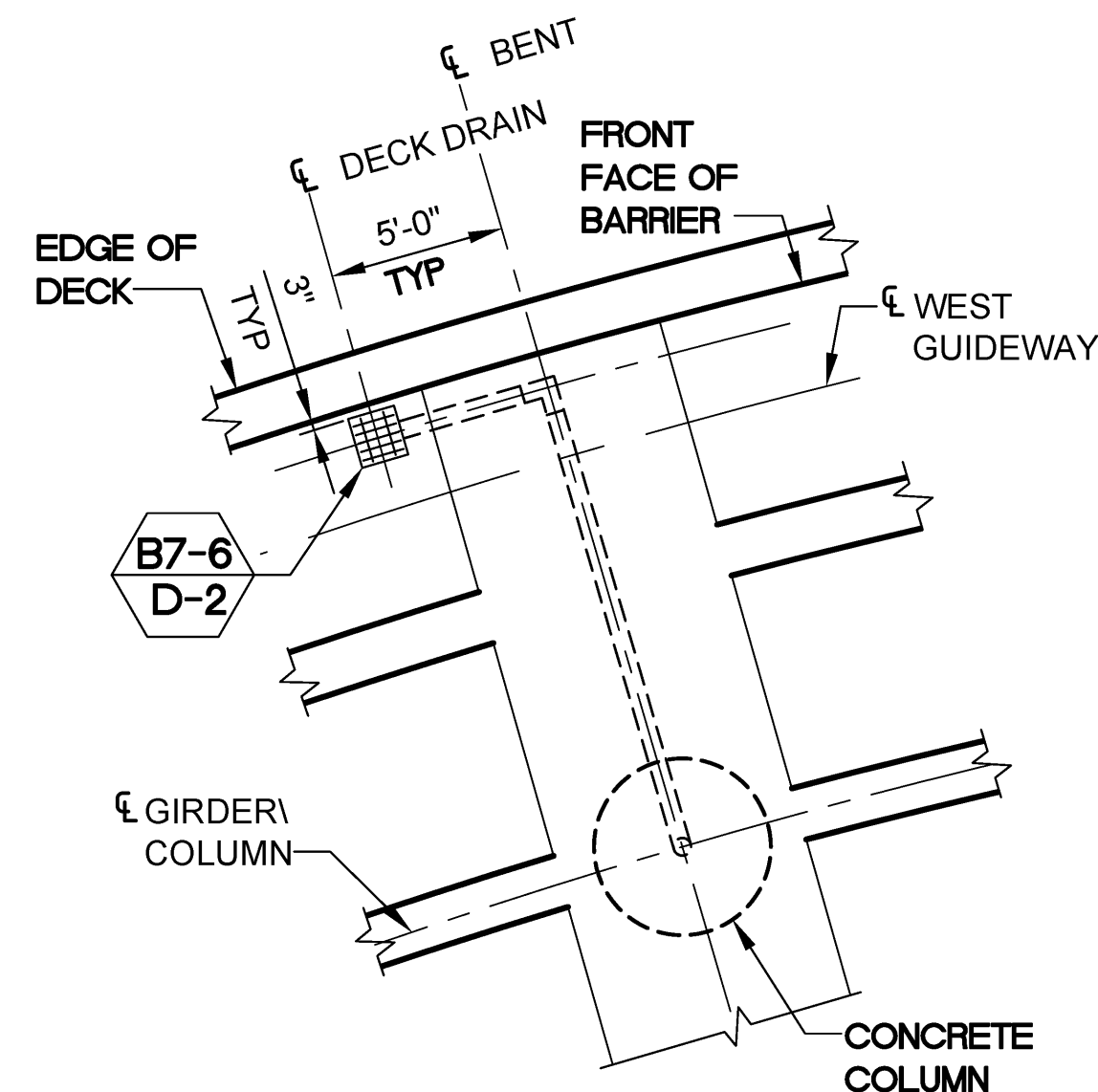
B0-3 BRIDGE DETAILS
B0-5 BRIDGE DETAILS
B0-13 BRIDGE DETAILS
B2-5 PILE DETAILS CLASS 90 AND CLASS 140
B2-8 PILE DETAILS CLASS 200
B6-21 JOINT SEAL (MAXIMUM MOVEMENT RATING=2")
B7-1 BOX GIRDER DETAILS
B7-6 DECK DRAIN TYPES D-1 AND D-2
B7-10 UTILITY OPENING BOX GIRDER
B7-11 UTILITY DETAILS
B8-5 CAST-IN-PLACE PRESTRESSED GIRDER DETAILS

- PRESTRESSED SLAB CONCRETE, BRIDGE
- PRESTRESSED BOX GIRDER CONCRETE, BRIDGE
- STRUCTURAL REINFORCED CONCRETE
- STRUCTURAL REINFORCED CONCRETE, BRIDGE FOOTING
f' = (3.5 ksi) AT 28 DAYS
- STRUCTURAL REINFORCED CONCRETE, PILE SHAFT
f' = (3.5 ksi) AT 28 DAYS

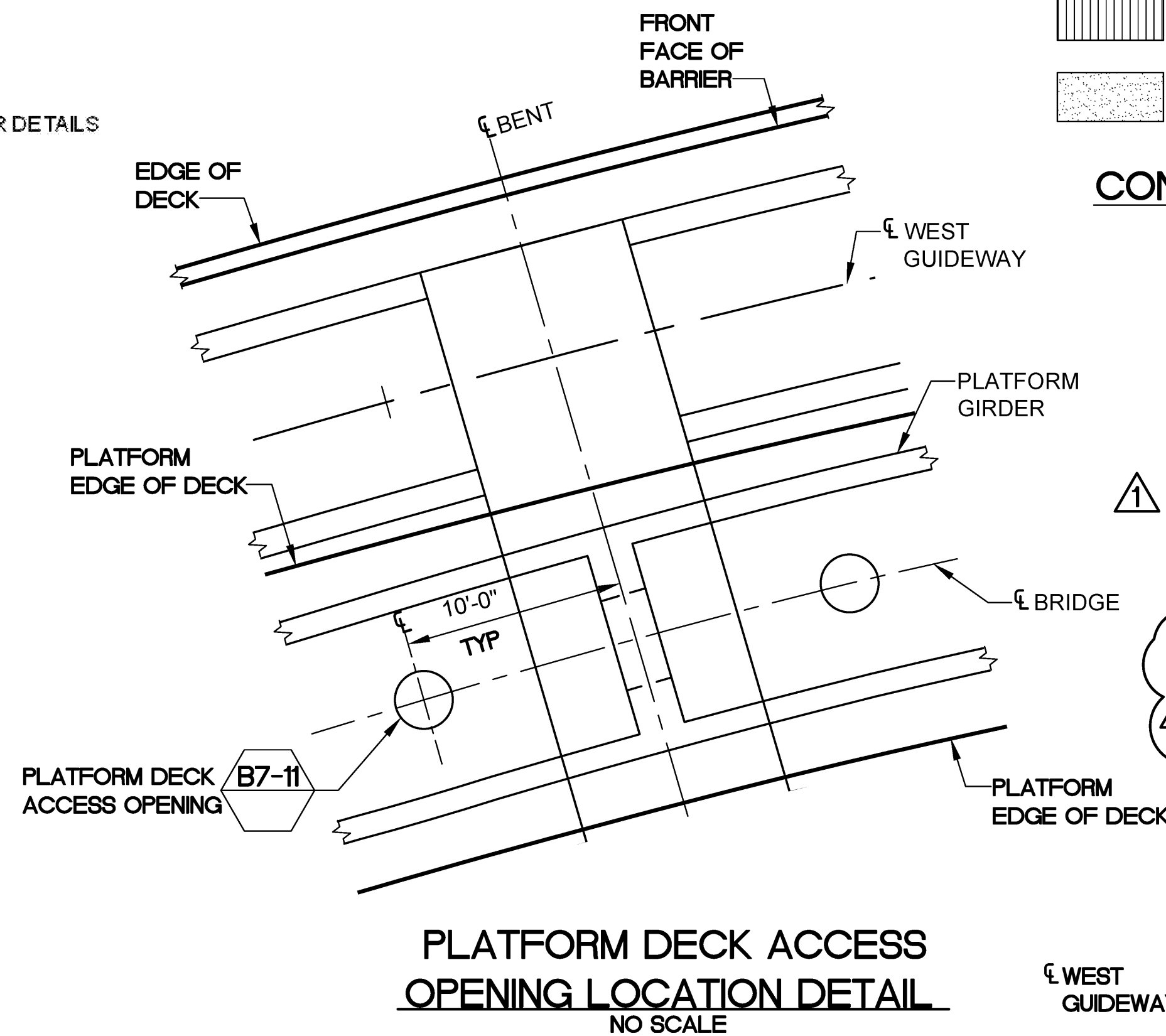
CONCRETE STRENGTH AND TYPE LIMITS

NOTES:

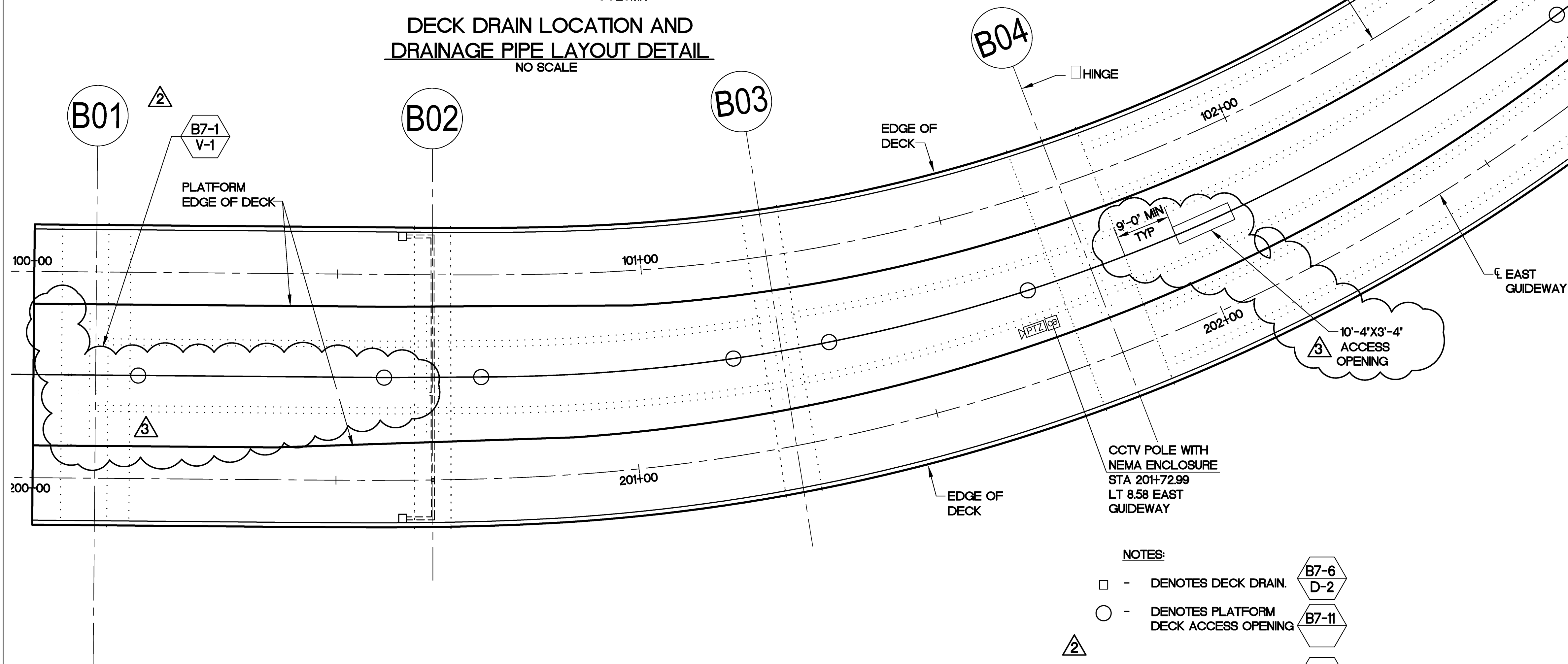
- SINGLE COLUMN BENT SHOWN, FOR TWO COLUMN BENTS DRAINAGE SHALL BE INSTALLED THROUGH EAST COLUMNS.
- FOR DRAINAGE DETAILS AT THE TERMINAL AND CONCOURSE, NOT SHOWN, SEE CA10.020 "DRAINAGE DETAILS" SHEET.
- OMIT DECK DRAINS AT BENTS 3 AND 4. DECK DRAINS AT BENTS 6 AND 7 TO DRAIN DOWN BENT 8 COLUMN.
- FOR 10'X3' "ACCESS OPENING" DETAIL, SEE CA10.005.
- PLATFORM TRENCH DRAIN TO BE DRAINED TO BENT B02.



DECK DRAIN LOCATION AND DRAINAGE PIPE LAYOUT DETAIL
NO SCALE



PLATFORM DECK ACCESS OPENING LOCATION DETAIL
NO SCALE



NOTES:

- - DENOTES DECK DRAIN. B7-6 D-2
- - DENOTES PLATFORM DECK ACCESS OPENING. B7-11
- - DENOTES BOX GIRDER VENT. B7-1 V-1
- PTZ CB - DENOTES PTZ UNIT AND POLE

PLAN
SCALE: 1"=10'

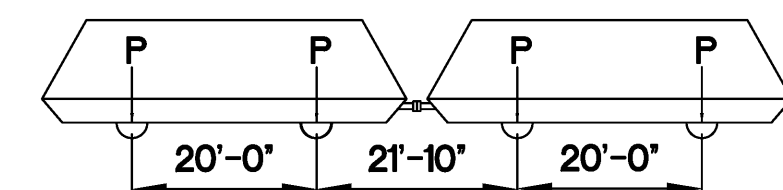
GENERAL NOTES

LOAD AND RESISTANCE FACTOR DESIGN

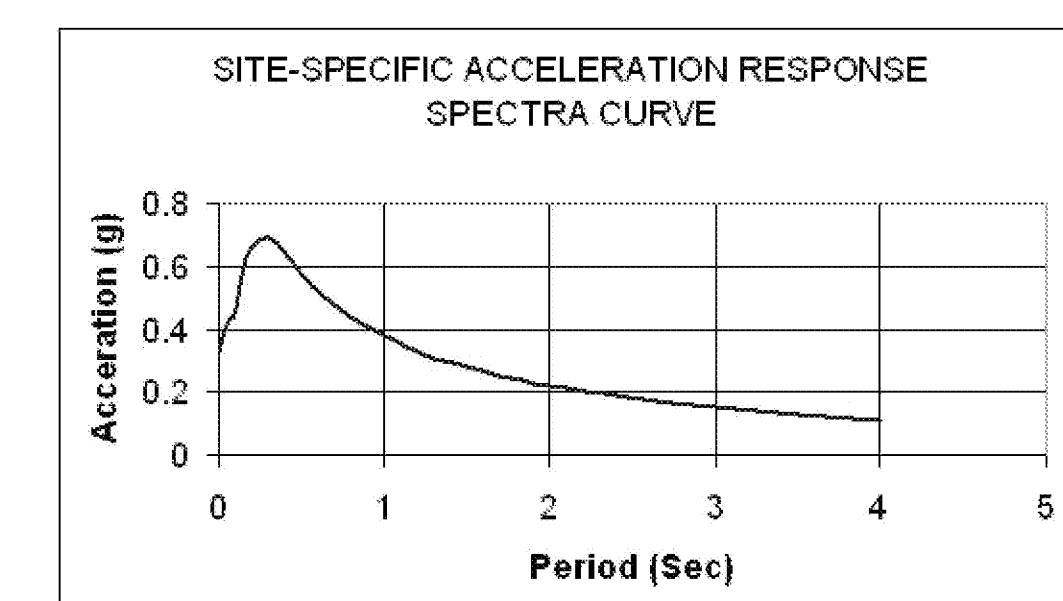
DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATION, 3rd EDITION WITH INTERIMS THROUGH 2005 AND THE CALTRANS AMENDMENTS V 3.06.01 EXCEPT THE RETAINING WALLS, BRIDGE ABUTMENTS, AND PILE SHAFTS FOUNDATION PER CALTRANS BRIDGE DESIGN SPECIFICATION.

SEISMIC DESIGN: CALTRANS SEISMIC DESIGN CRITERIA, VERSION 14 DATED JUNE 2006.

LIVE LOADING: BOMBARDIER CX 100
P- EMPTY= 16.90 kips (AW0)
P- OPERATIONAL LOAD= 22.02 kips (AW1)
P- CRUSH LOAD= 31.19 kips (AW2)



SEISMIC LOADING:



REINFORCED CONCRETE:
fy= 60 ksi
fc= 4.0 ksi
n= 8



FENTRESS | ARCHITECTS

ISSUES
000 12.01.08 95% REVIEW
001 12.22.08 IFC DCN AS018
REVISIONS
001 06.26.09 DCN AS043
002 08.14.09 DCN AS052
003 10.02.09 DCN AS060

TERMINAL MODERNIZATION PROGRAM
AIRSIDE CONCOURSE B PROJECT

Central Terminal B
Sacramento International Airport

02/02/12
RECORD DRAWINGS

APM ELEVATED GUIDEWAY

DECK LAYOUT NO.1

JOB: 05003.0000

DATE: 12.22.08

SHEET:

CA10.004

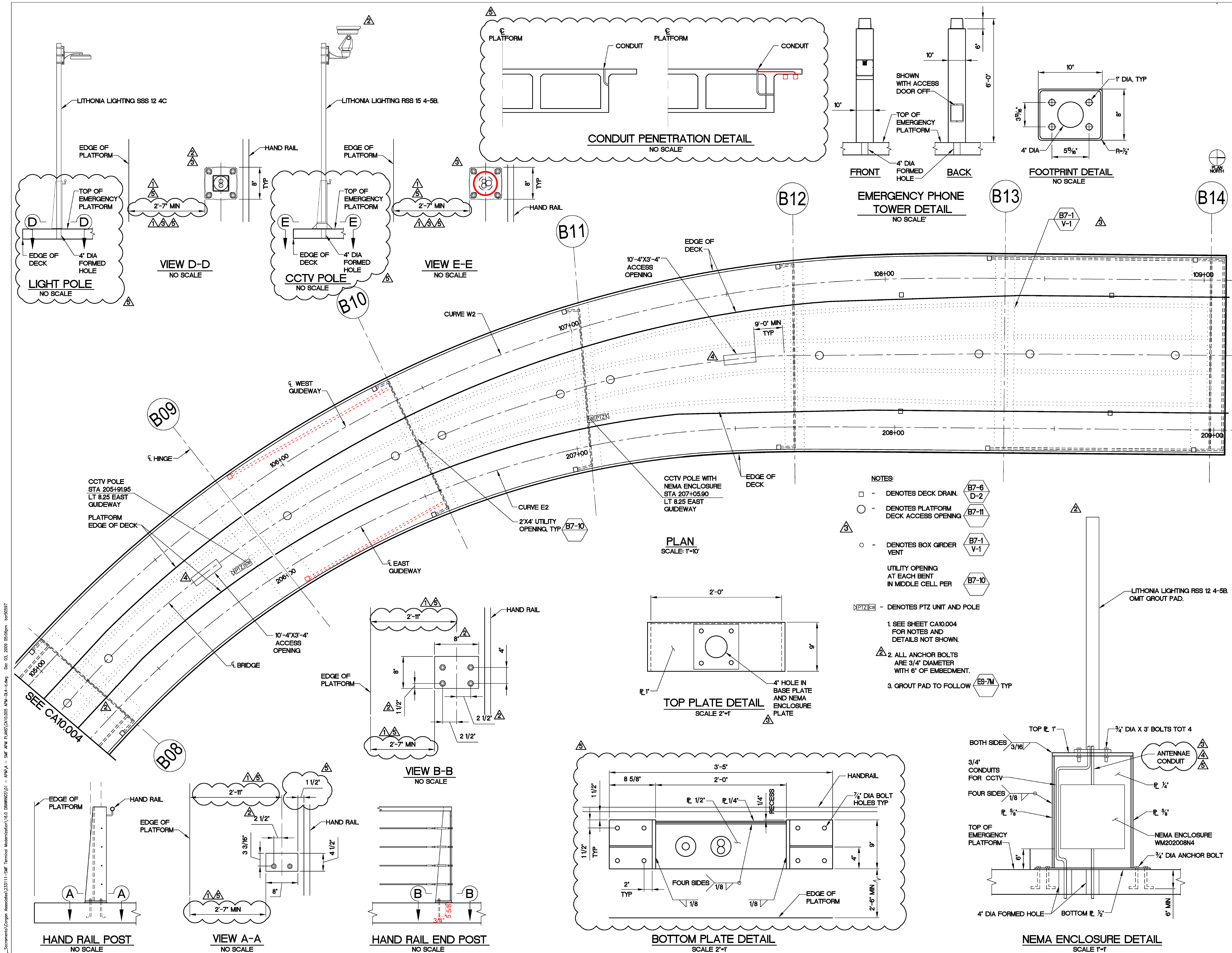
REVISION NO: AS-003



TERMINAL MODERNIZATION PROGRAM
AIRSIDE CONCOURSE B PROJECT

02/02/12
RECORD DRAWINGS

DECK LAYOUT NO. 2
JOB: 05003.0000
DATE: 03.09.09
SHEET:
CA10.005
REVISION NO: AS-005





FENTRESS ARCHITECTS

ISSUES	
001	08.14.09 DCN AS052
REVISIONS	
001	10.02.09 DCN AS060
002	12.04.09 DCN AS067

TERMINAL MODERNIZATION PROGRAM
AIRSIDE CONCOURSE B PROJECT



02/02/12
RECORD DRAWINGS

APM ELEVATED
GUIDEWAY
DECK PENETRATIONS-
PLAN

JOB: 05003.0000
DATE: 08.14.09

SHEET:

CA10.005A

REVISION NO: AS-002

NOTES:

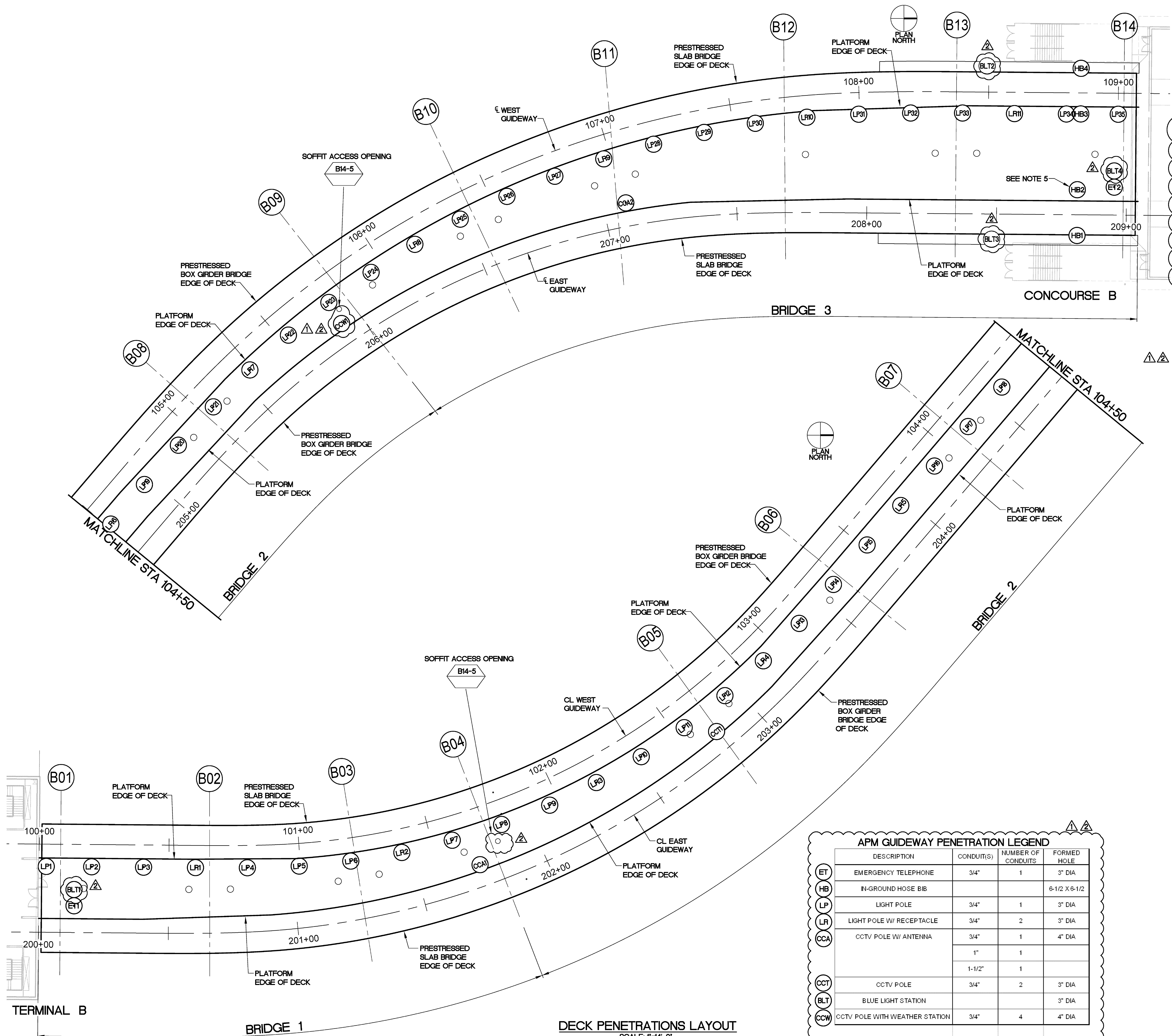
1. ALL LOCATIONS NEED A FORMED HOLE AT 3" DIA UNLESS OTHERWISE NOTED.
2. SEE SHEET CA10.005 FOR ANCHOR BOLT LAYOUT.
3. ALL STATIONING AND OFFSETS BASED OFF OF WEST ALIGNMENT.
4. R DICTATES RIGHT OFFSET FROM WEST ALIGNMENT
L DICTATES LEFT OFFSET FROM WEST ALIGNMENT
5. FOR DETAILS OF HOSE BIB (HB), SEE CA10.005B.
6. CCTV POLE W/ ANTENNA HAS TWO FORMED HOLES. ONLY ONE FORMED HOLE IS CALLED OUT IN PENETRATION TABLE. FOR LOCATION OF SECOND FORMED HOLE SEE NEMA ENCLOSURE DETAIL.

DELETED TABLE

APM GUIDEWAY PENETRATION LEGEND

DESCRIPTION	CONDUIT(S)	NUMBER OF CONDUITS	FORMED HOLE
ET EMERGENCY TELEPHONE	3/4"	1	3" DIA
HB IN-GROUND HOSE BIB			6-1/2 X 6-1/2
LP LIGHT POLE	3/4"	1	3" DIA
LR LIGHT POLE W/ RECEPTACLE	3/4"	2	3" DIA
CCA CCTV POLE W/ ANTENNA	3/4"	1	4" DIA
	1"	1	
	1-1/2"	1	
CCT CCTV POLE	3/4"	2	3" DIA
BLT BLUE LIGHT STATION			3" DIA
CCW CCTV POLE WITH WEATHER STATION	3/4"	4	4" DIA

DECK PENETRATIONS LAYOUT
SCALE: 1"=14'-0"



C:\Sacramento\Corplan\Assemblies\15.0 DRAWINGS\01 - APM - APM PLANS\CA10.005A APM-EDU-PLAN.dwg Dec 03, 2009 14:59pm bar52804



Δ	REVISIONS
001	10.02.09 DCN A
002	12.04.09 DCN A

TERMINAL MODERNIZATION PROGRAM

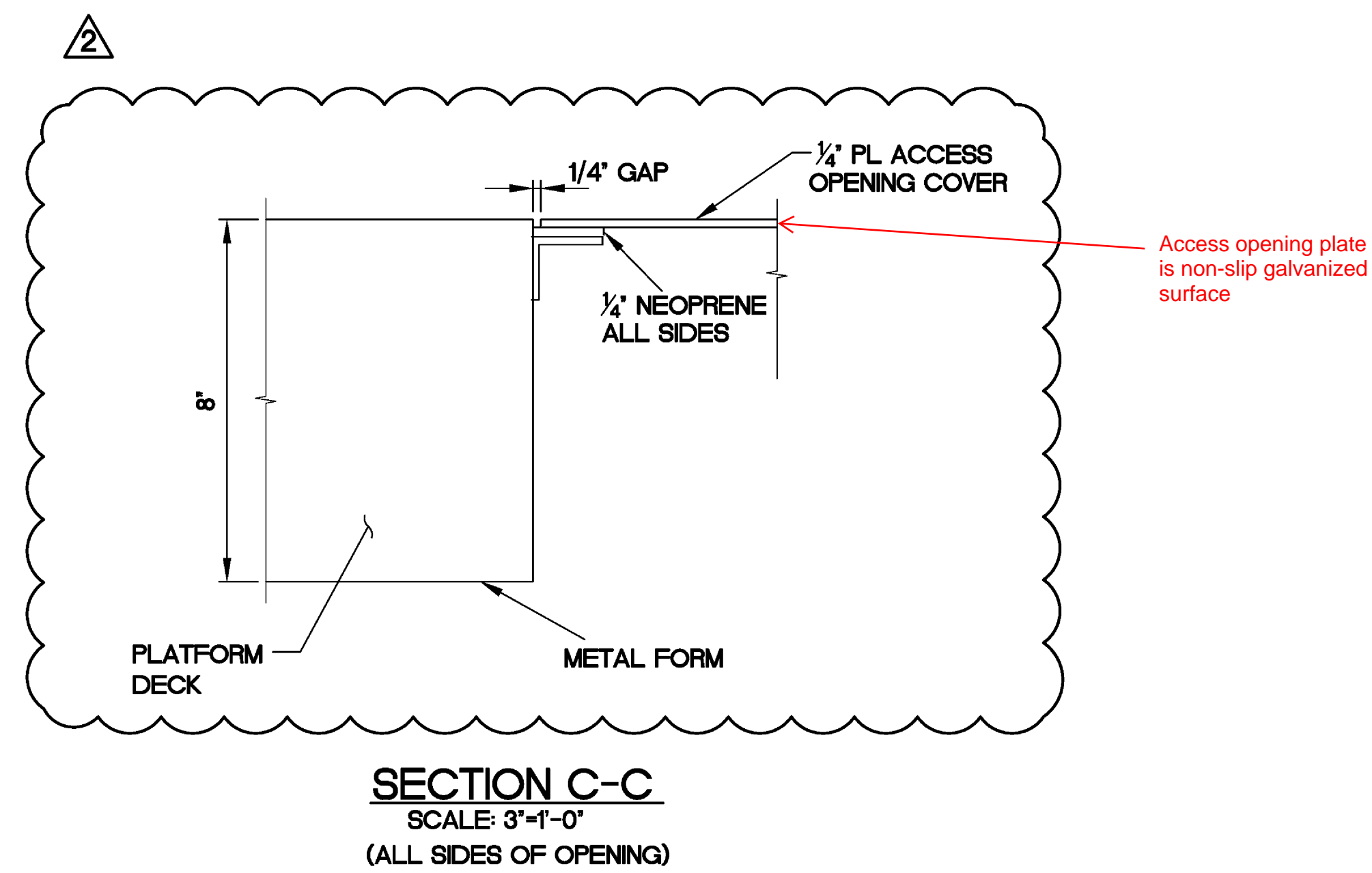
Central Terminal B

02/02/12
RECORD DRAWINGS

APM ELEVATED
GUIDEWAY
DECK PENETRATIONS-
ELEVATION
JOB: 05003.0000
DATE: 08.14.09
SHEET:
CA10.005B
REVISION NO: AS-002



VIEW A-A
SCALE: 1"=4'-0"





FENTRESS ARCHITECTS

ISSUES
000 12.01.08 95% REVIEW
001 12.22.08 IFC DCN AS018

REVISIONS
001 03.02.09 DCN AS025
002 06.26.09 DCN AS044
003 10.02.09 DCN AS060

TERMINAL MODERNIZATION PROGRAM
AIRSIDE CONCOURSE B PROJECT

Central
Terminal B
Sacramento International Airport

02/02/12
RECORD DRAWINGS

APM ELEVATED
GUIDEWAY

BENT DETAILS NO. 1

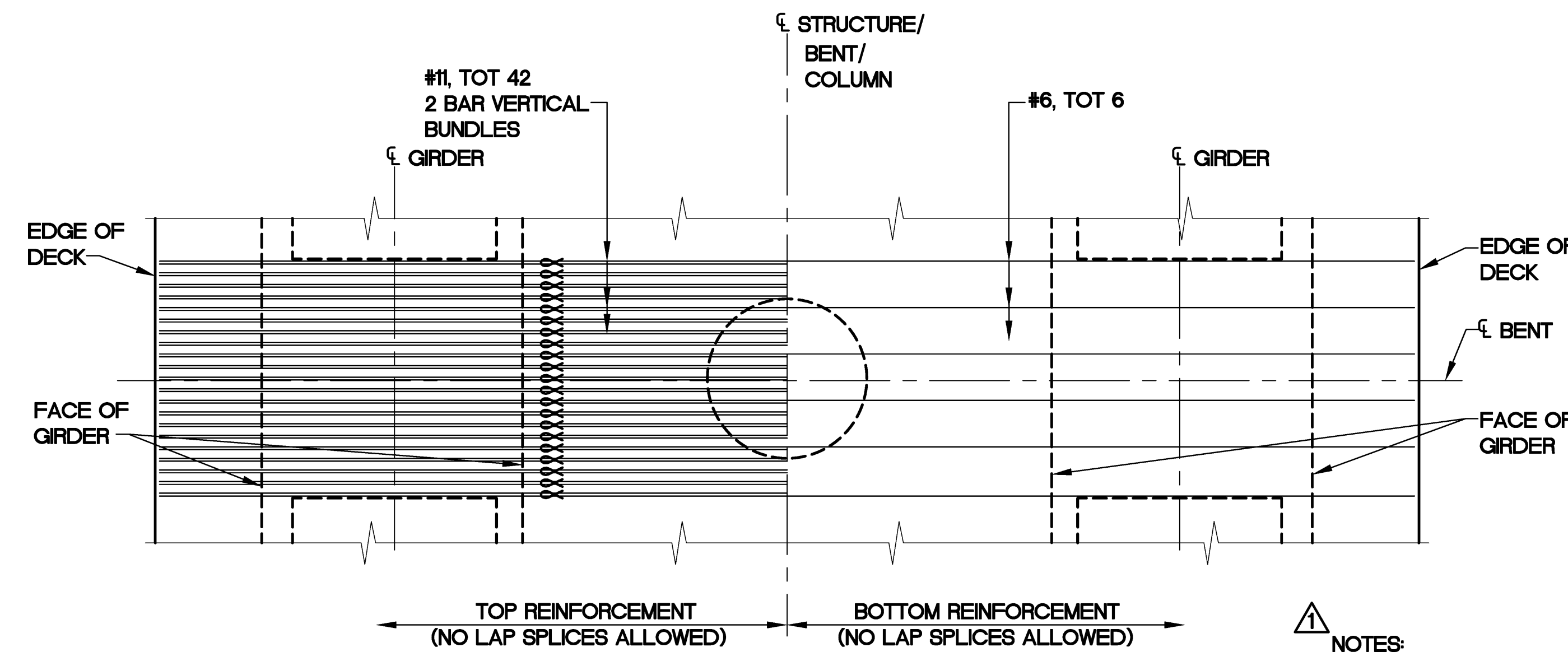
JOB: 05003.0000

DATE: 12.22.08

SHEET:

CA10.006

REVISION NO: AS-003



NOTE:

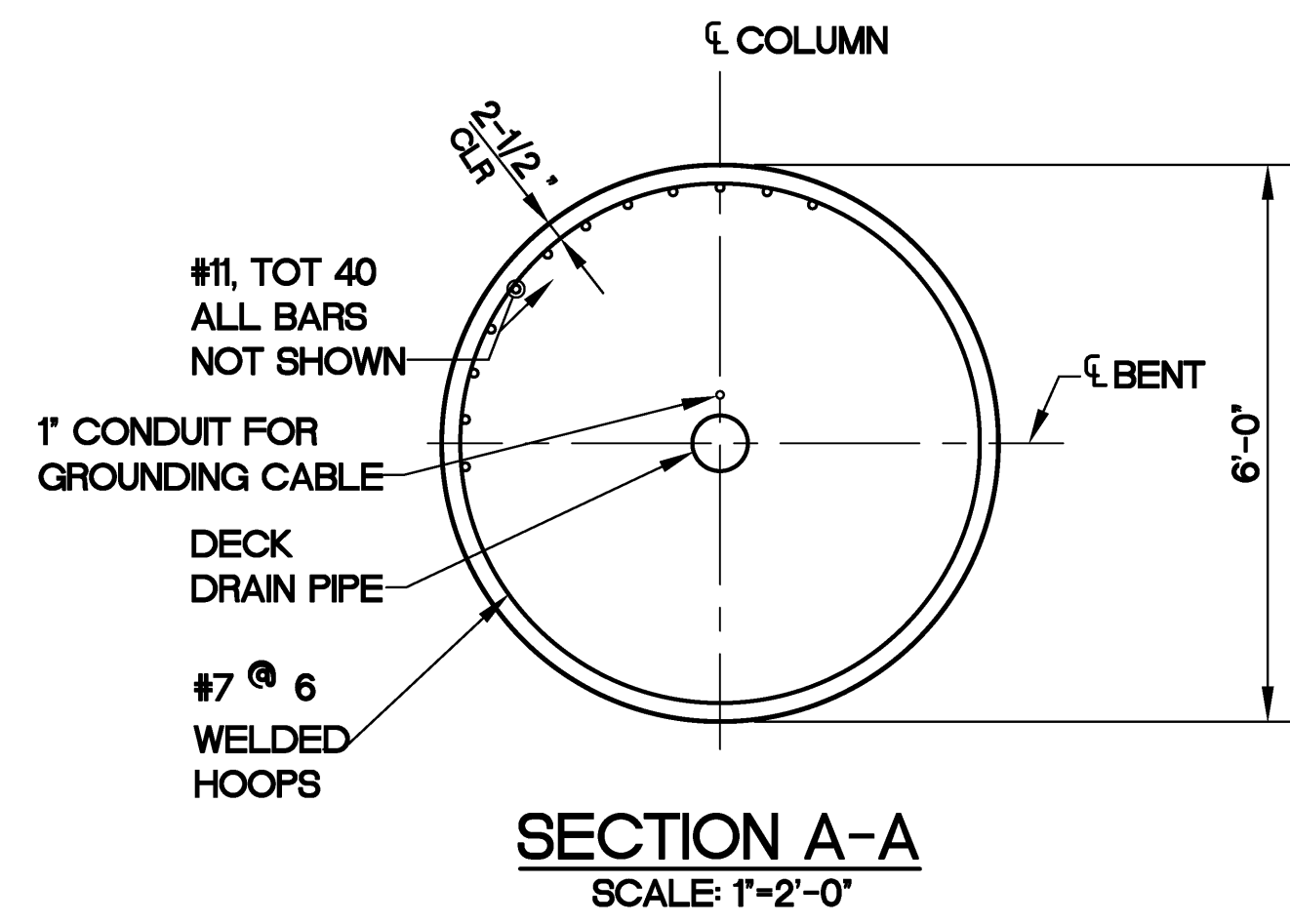
1. PLATFORM NOT SHOWN

2'x4' UTILITY
OPENING

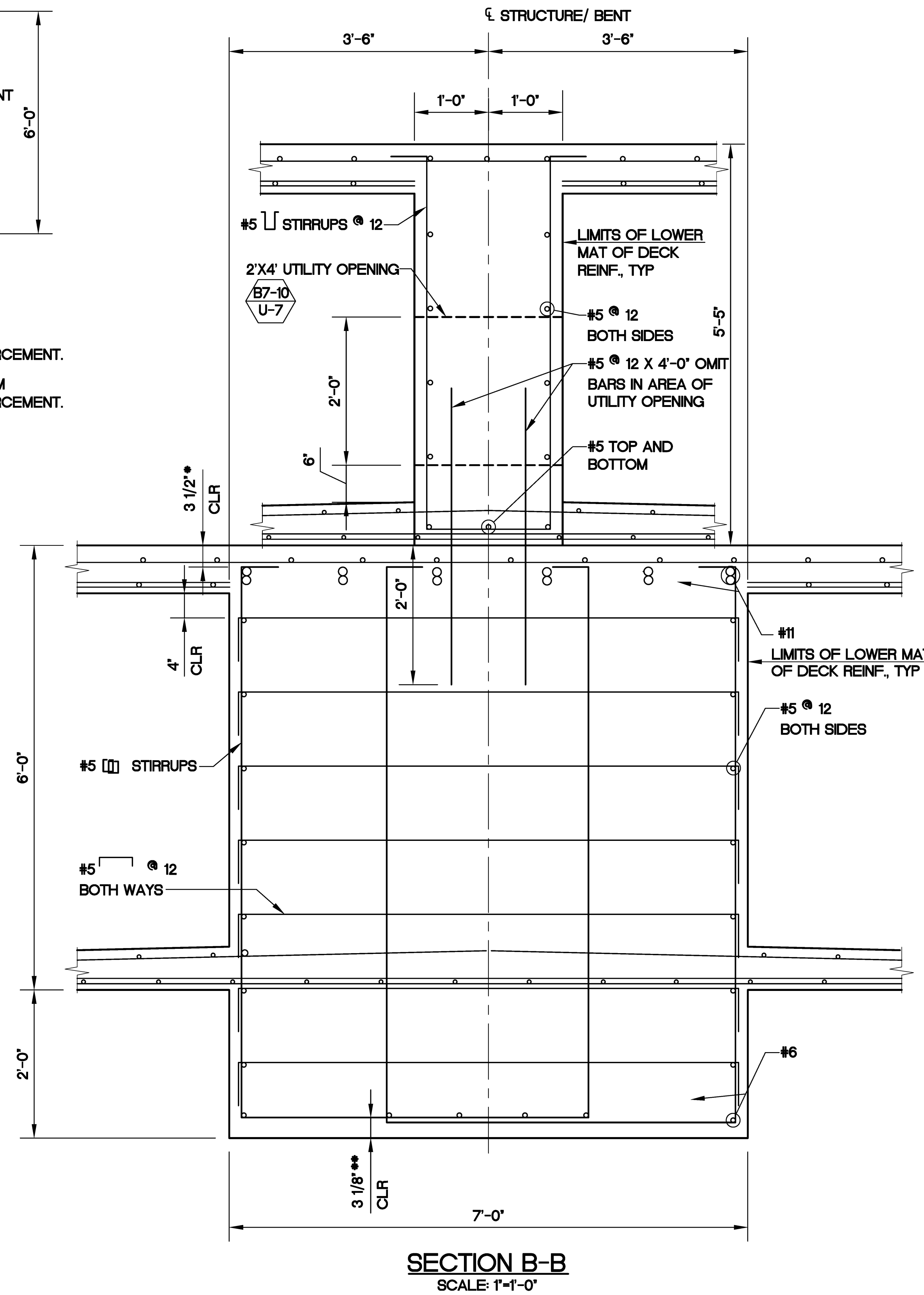
PLAN
SCALE: 1"=4'-0"

NOTES:

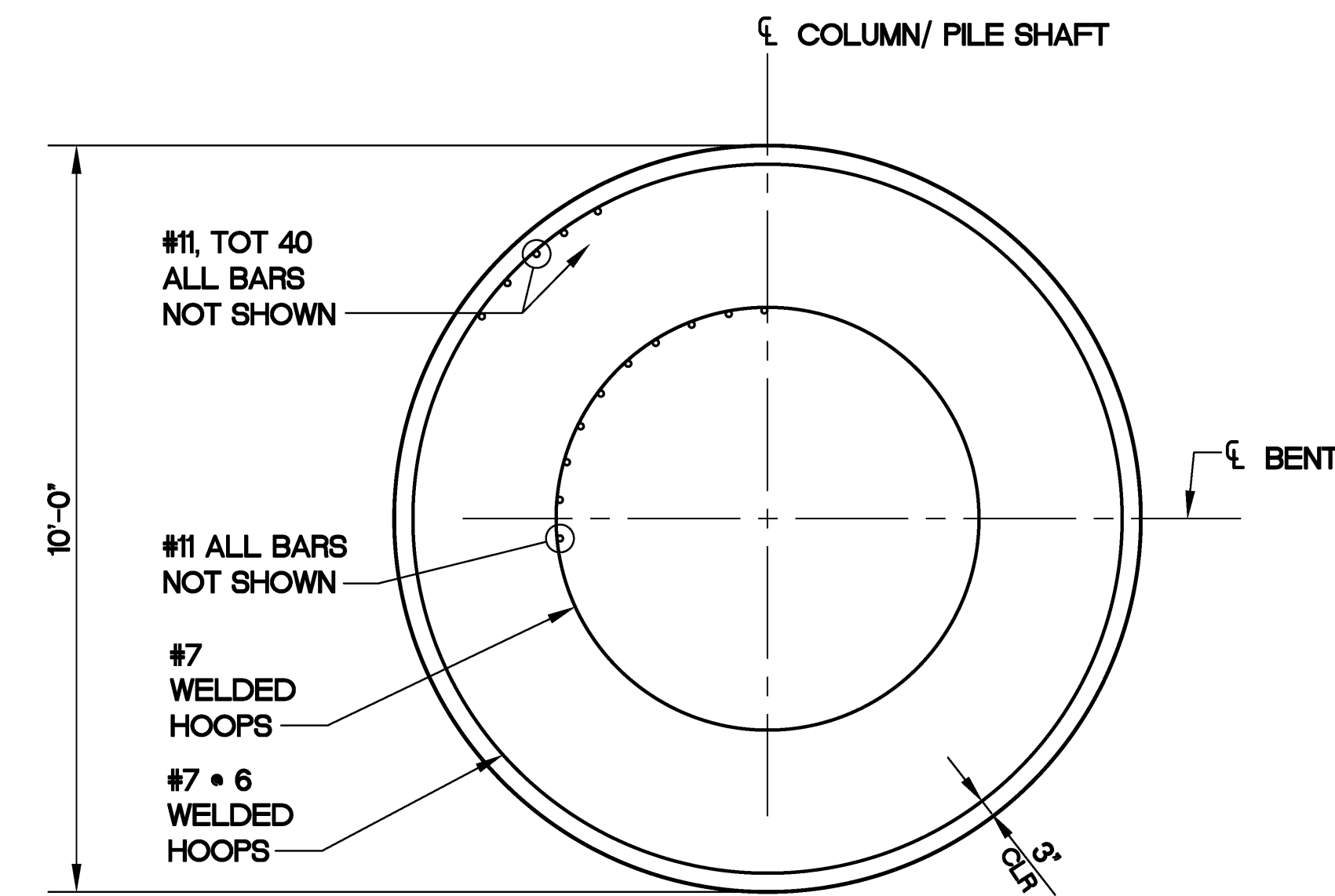
- NO SPLICE ALLOWED IN MAIN COLUMN AND BENT CAP REINFORCEMENT.
- ALL HOOPS ARE 'ULTIMATE' BUTT WELD.
- FOR COLUMN AND SHAFT LOCATIONS, SEE 'FOUNDATION PLAN NO. 1 AND NO. 2' SHEETS CA10.002 AND CA10.003.
- BENT 8 SHOWN, BENT 7 IS SIMILAR (EXCLUDE COLUMN DRAINAGE AT BENT 7).
- CONNECT GUIDEWAY DRAINAGE TO DRAINAGE SYSTEM, SEE DRAINAGE PLANS.
- GROUNDING CABLE TO BE PLACED IN EAST COLUMN ON TWO COLUMN BENTS. CONDUIT TO TERMINATE ON BOTH SIDES OF EMERGENCY PLATFORM AND UNDER FINISH GRADE.
- COLUMN VERTICAL REINFORCEMENT IS SYMMETRICAL ABOUT COLUMN.
- A SIX FOOT LONG LOOP OF #4 WIRE SHALL BE INSTALLED ON BOTH SIDES OF THE EMERGENCY PLATFORM. FOR DETAILS NOT SHOWN, SEE 'WASH PLATFORM DETAILS' SHEET, CA10.023.



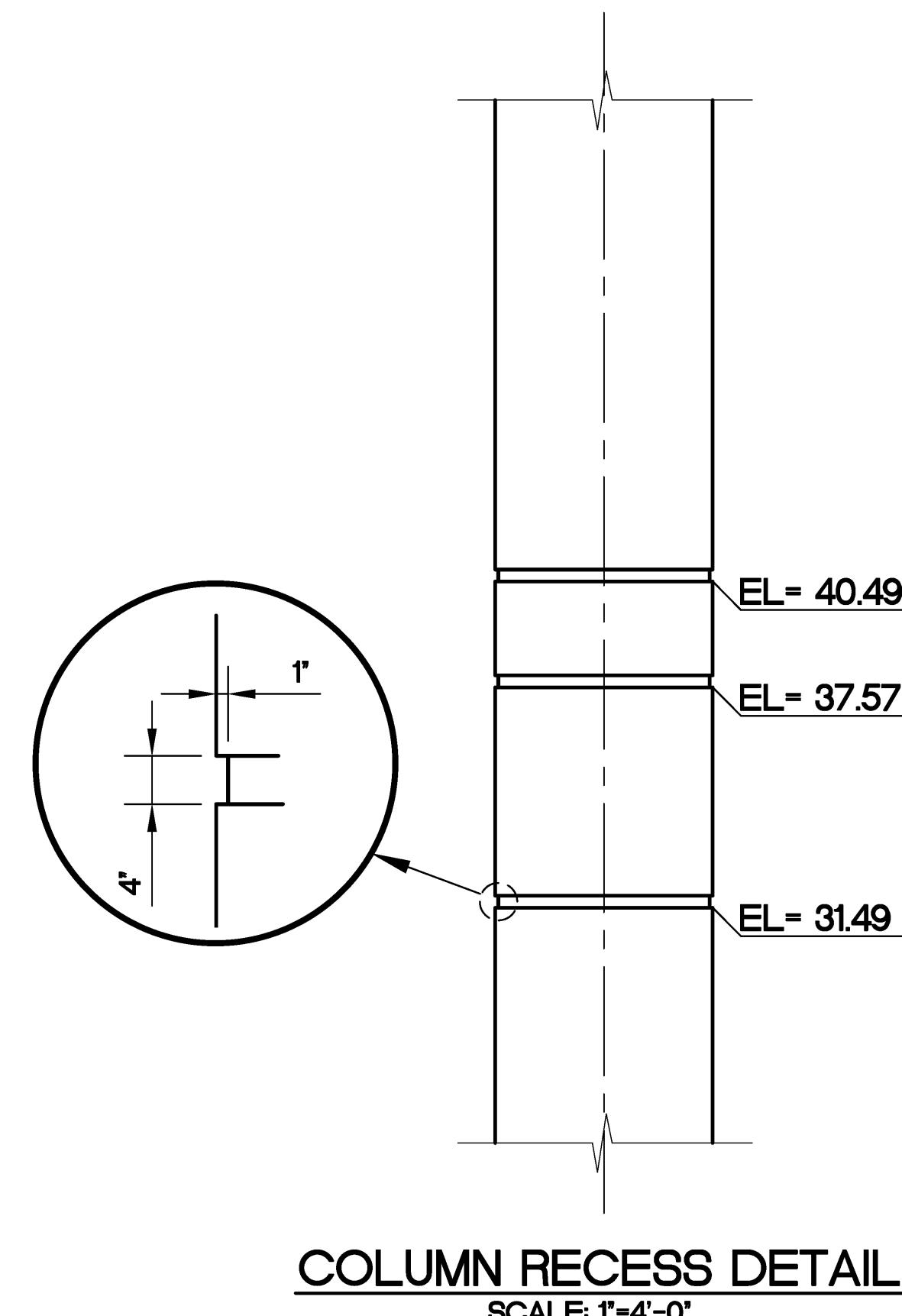
- CLEARANCE TO TOP MAIN BENT CAP REINFORCEMENT.
- CLEARANCE TO BOTTOM MAIN BENT CAP REINFORCEMENT.



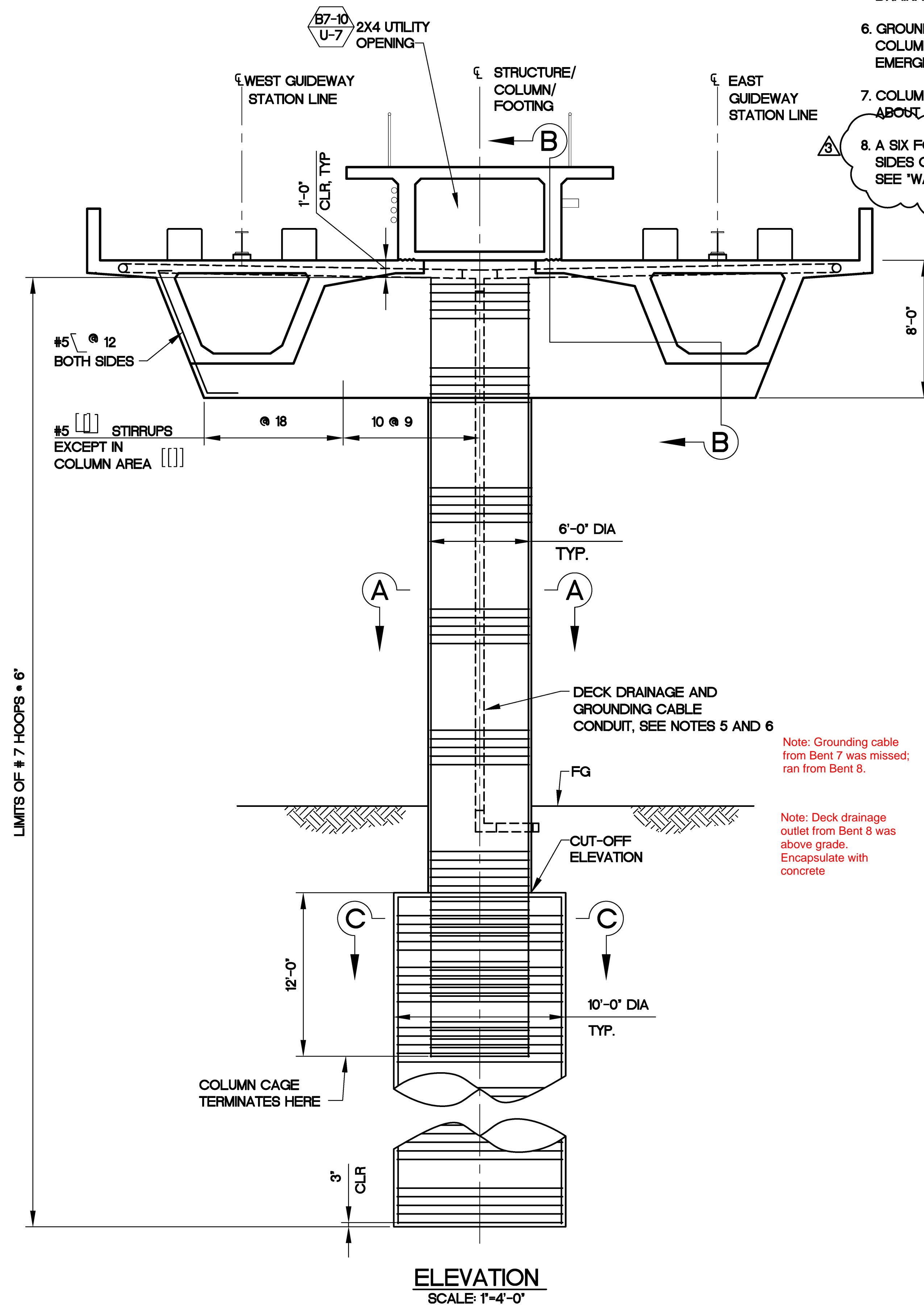
SECTION B-B
SCALE: 1"=1'-0"



SECTION C-C
SCALE: 1"=2'-0"



COLUMN RECESS DETAIL
SCALE: 1"=4'-0"



ELEVATION
SCALE: 1"=4'-0"

Note: Grounding cable from Bent 7 was missed; ran from Bent 8.

Note: Deck drainage outlet from Bent 8 was above grade. Encapsulate with concrete

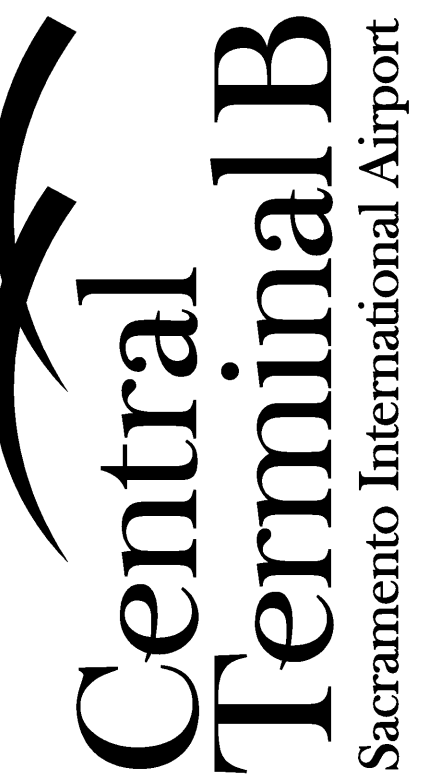


FENTRESS ARCHITECTS

ISSUES
000 12.01.08 95% REVIEW
001 12.22.08 IFC DCN AS018

REVISIONS
001 03.02.09 DCN AS025
002 06.26.09 DCN AS044
003 10.02.09 DCN AS060

TERMINAL MODERNIZATION PROGRAM
AIRSIDE CONCOURSE B PROJECT



02/02/12
RECORD DRAWINGS

APM ELEVATED
GUIDEWAY

BENT DETAILS NO. 2

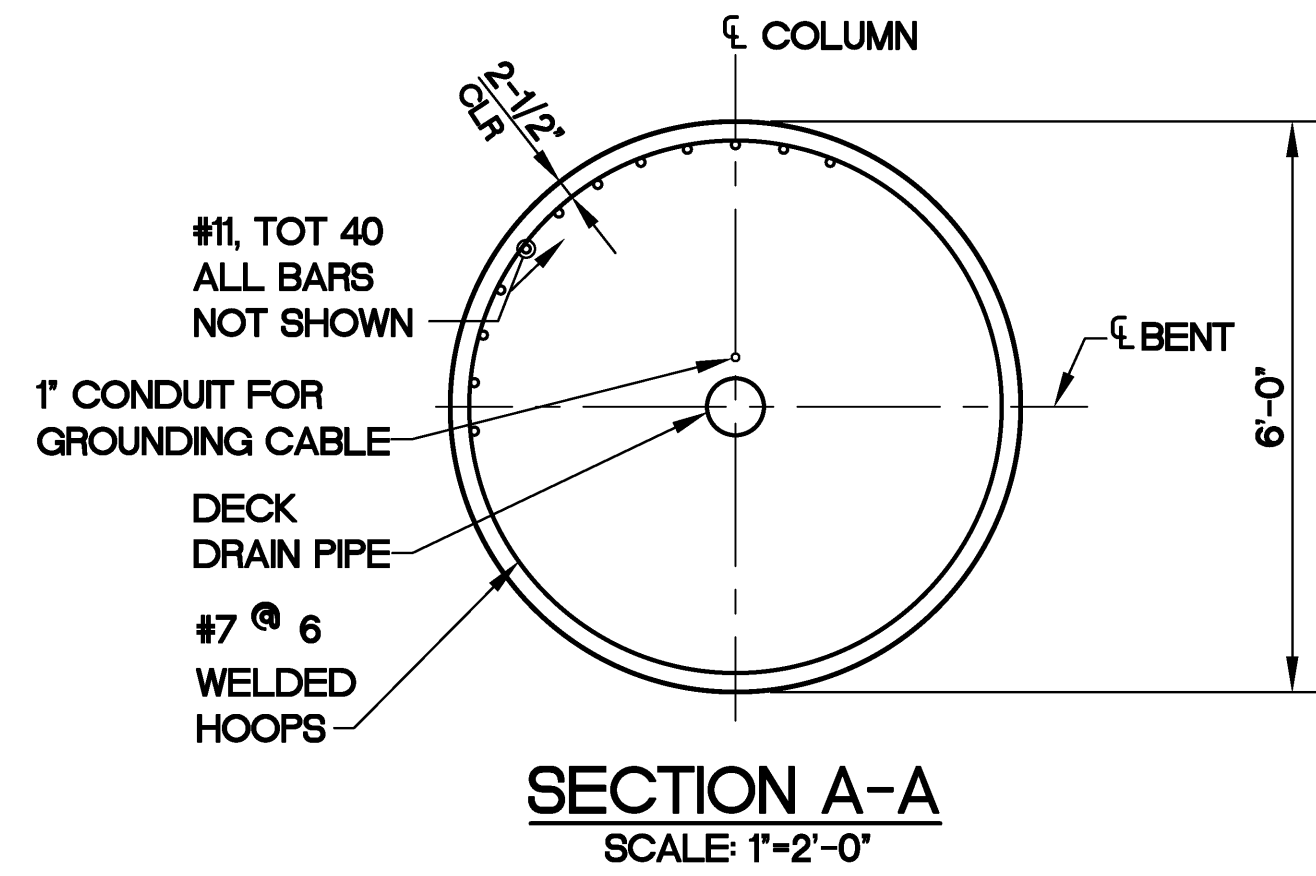
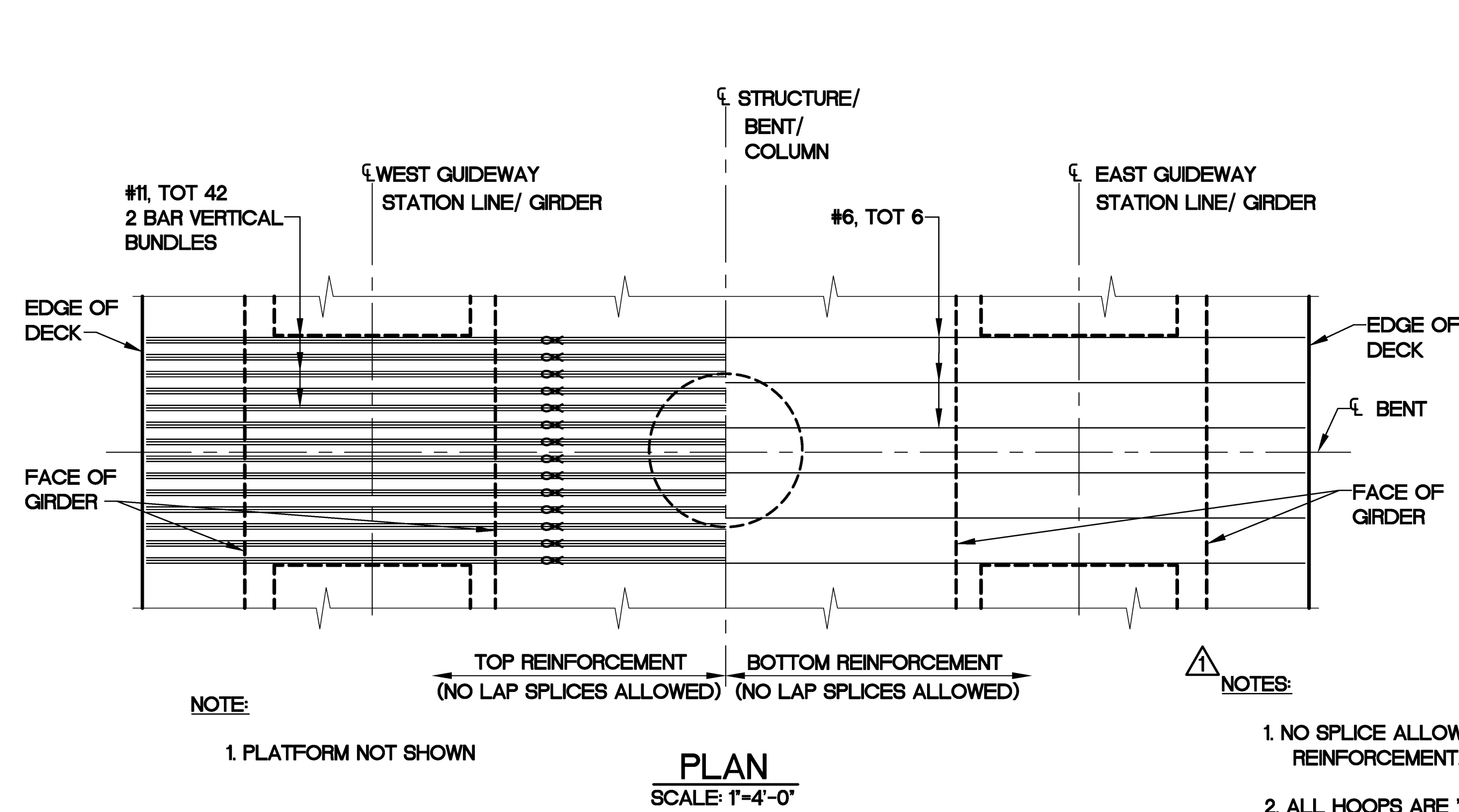
JOB: 05003.0000

DATE: 12.22.08

SHEET:

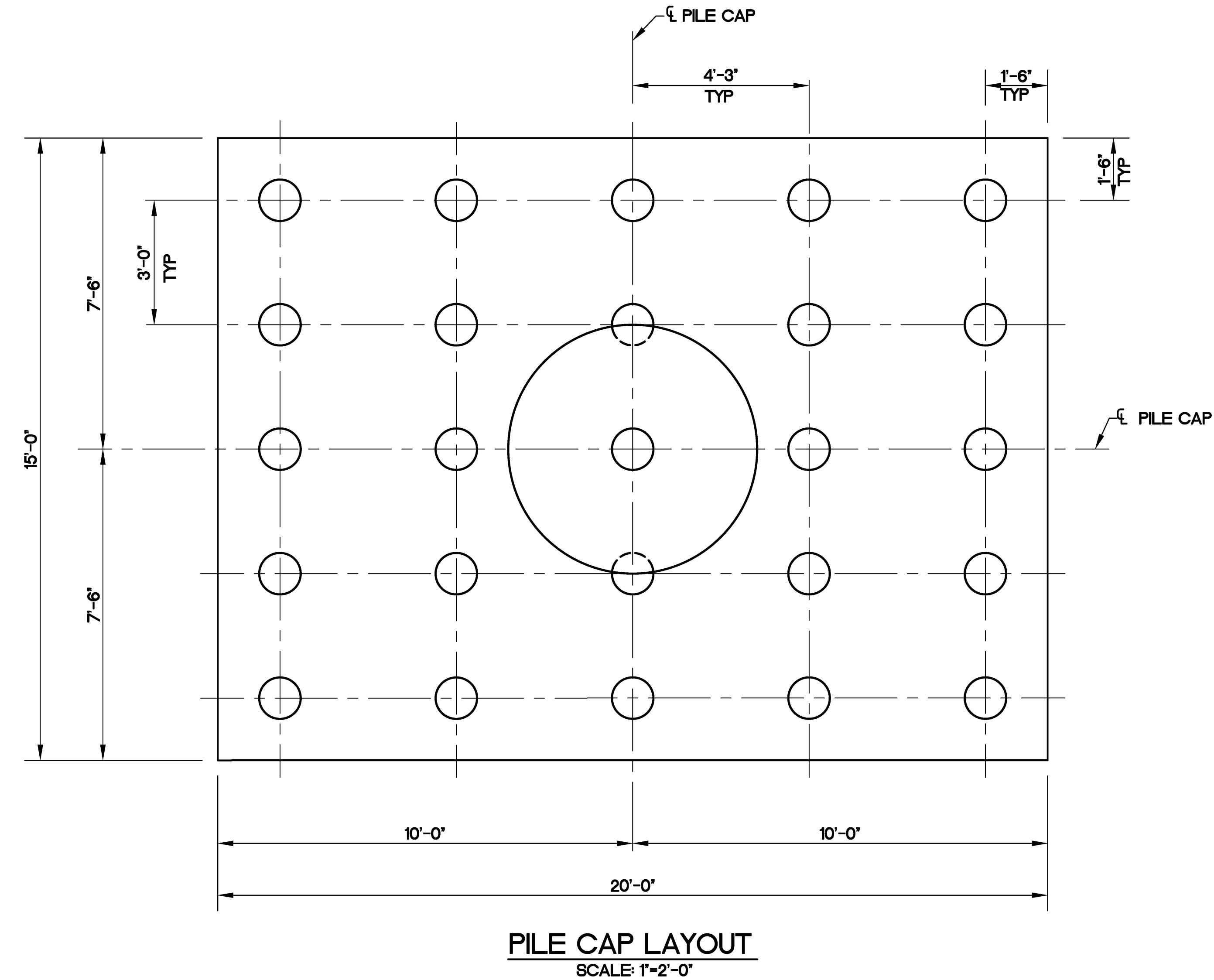
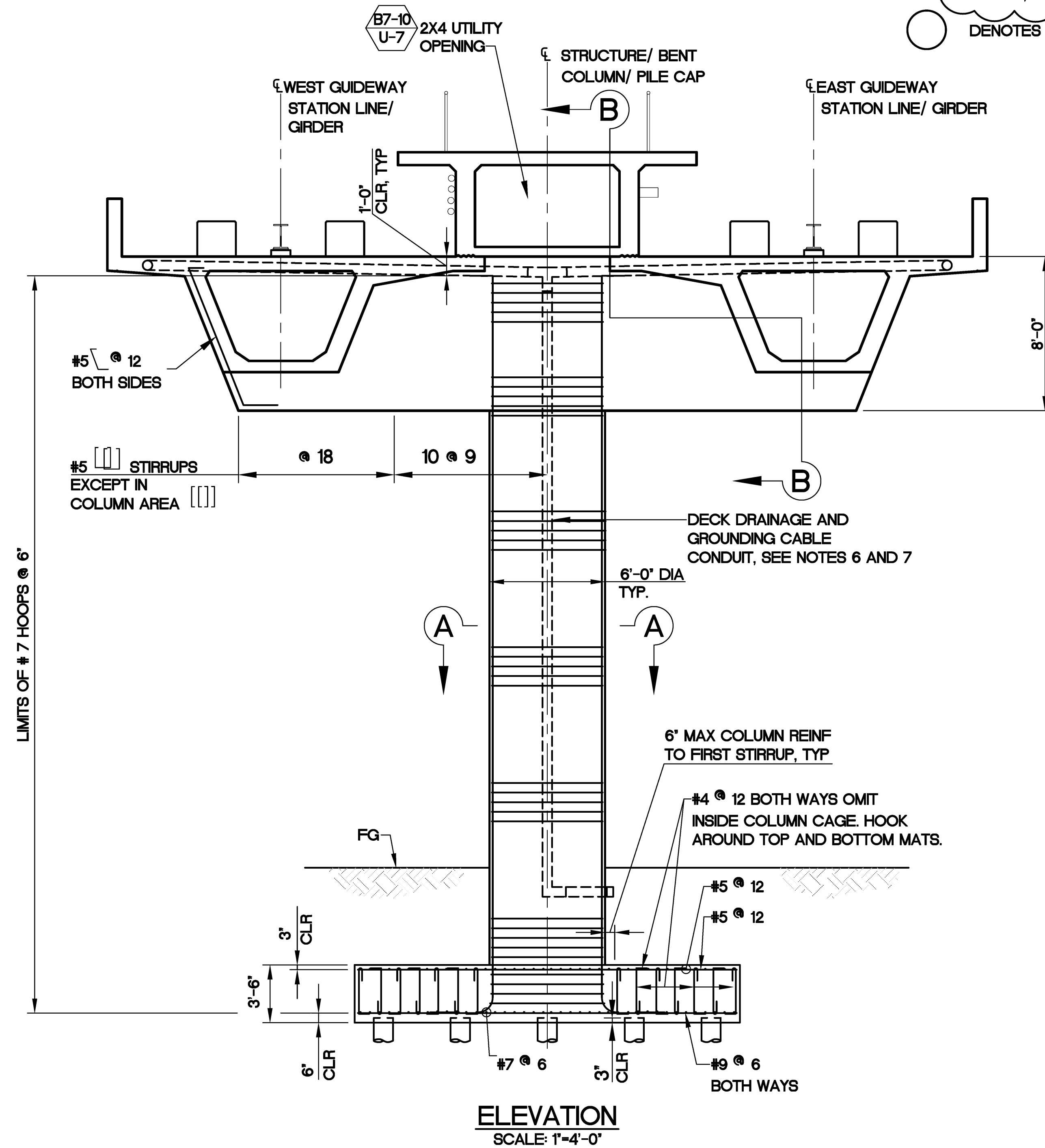
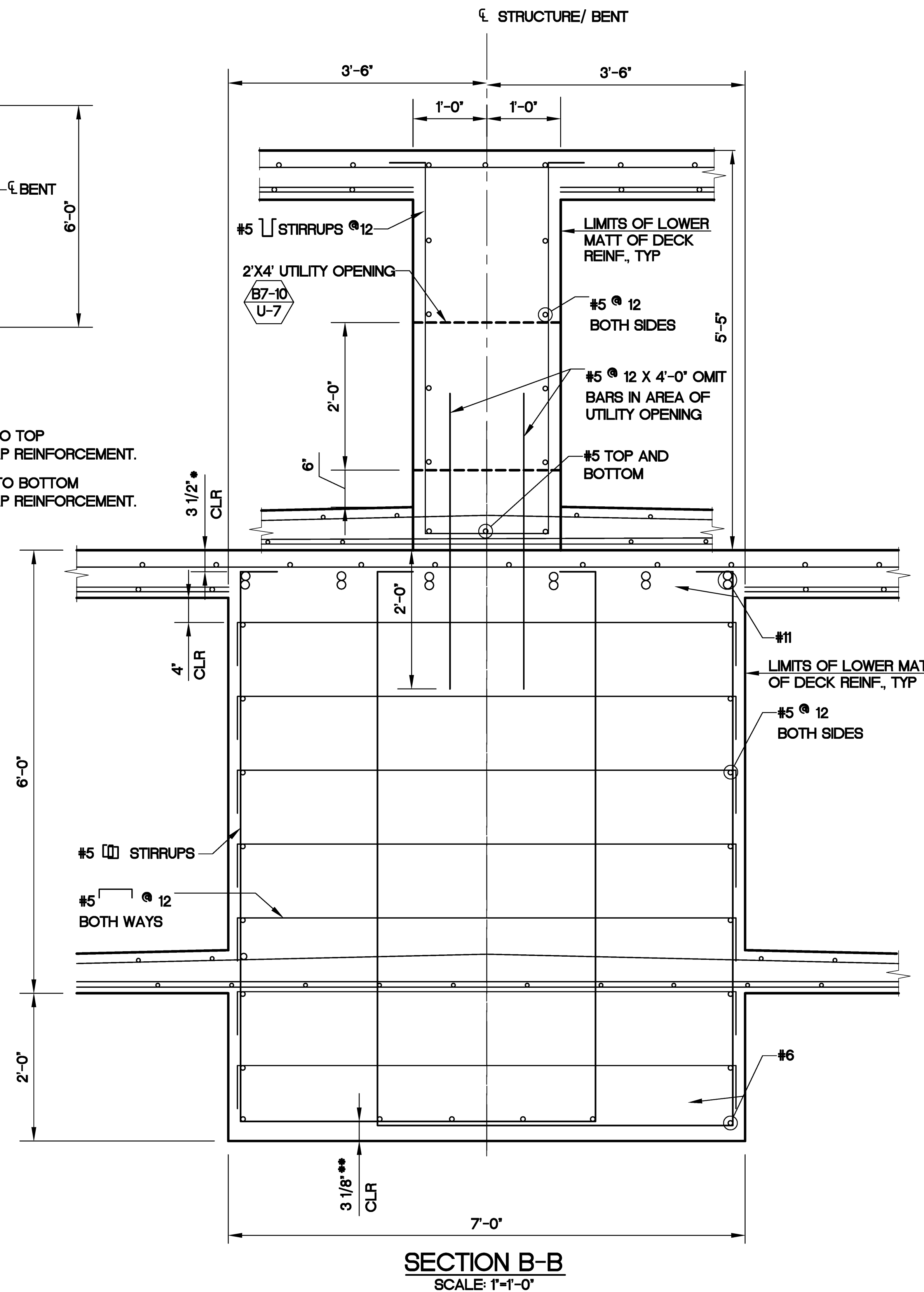
CA10.007

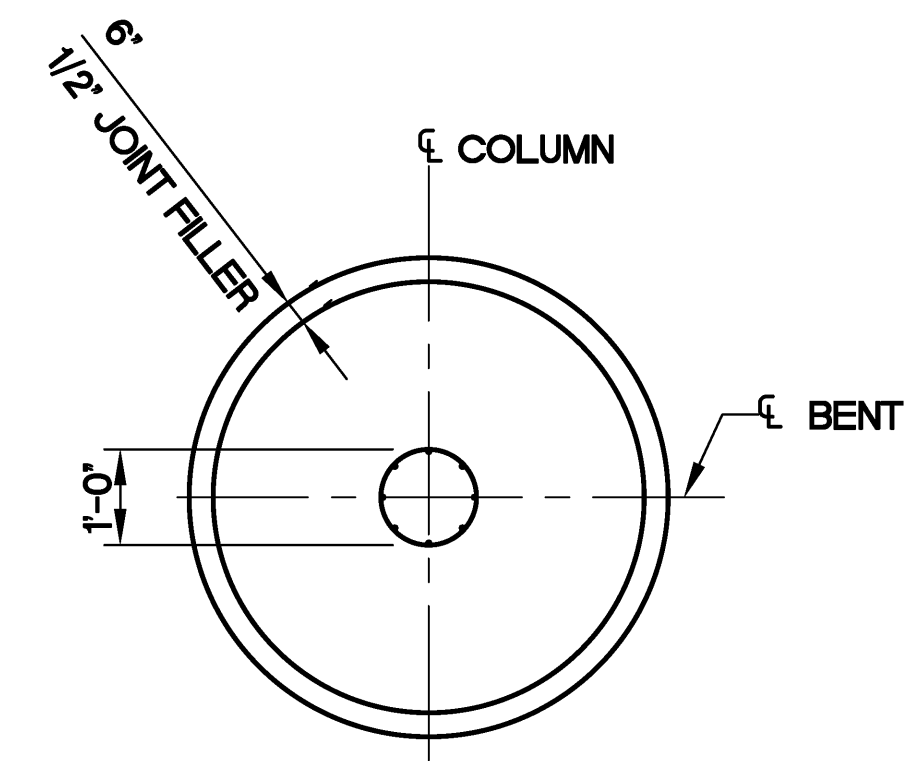
REVISION NO: AS-003



- CLEARANCE TO TOP MAIN BENT CAP REINFORCEMENT.
- CLEARANCE TO BOTTOM MAIN BENT CAP REINFORCEMENT.

- NOTES:
1. NO SPLICE ALLOWED IN MAIN COLUMN AND BENT CAP REINFORCEMENT.
 2. ALL HOOPS ARE 'ULTIMATE' BUTT WELD.
 3. FOR COLUMN AND PILE CAP LOCATIONS, SEE 'FOUNDATION PLAN NO. 1 + NO. 2' SHEETS CA10.002 AND CA10.003.
 4. BENT 5 SHOWN, BENT 6 IS SIMILAR (EXCLUDE COLUMN DRAINAGE AT BENT 6).
 5. FOR 'COLUMN RECESS DETAIL, 'SEE 'BENT DETAILS NO. 1' SHEET CA10.006.
 6. CONNECT GUIDEWAY DRAINAGE TO DRAINAGE SYSTEM, SEE DRAINAGE PLANS.
 7. GROUNDING CABLE TO BE PLACED IN EAST COLUMN ON TWO COLUMN BENTS. CONDUIT TO TERMINATE ON BOTH SIDES OF EMERGENCY PLATFORM AND UNDER FINISH GRADE.
 8. COLUMN VERTICAL REINFORCEMENT IS SYMMETRICAL ABOUT COLUMN.
 9. A SIX FOOT LONG LOOP OF #4 WIRE SHALL BE INSTALLED ON BOTH SIDES OF THE EMERGENCY PLATFORM. FOR DETAILS NOT SHOWN, SEE 'WASH PLATFORM DETAILS' SHEET, CA10.023.
- DENOTES CLASS 200 DRIVEN CONCRETE PILE.





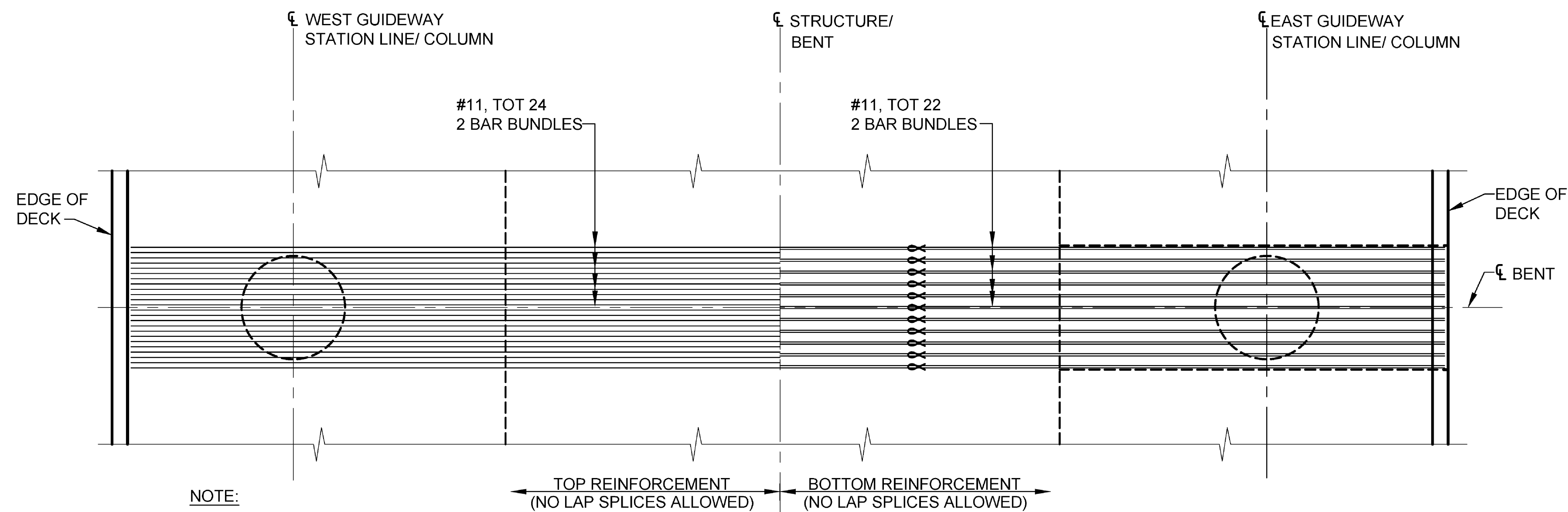
- * CLEARANCE TO TOP
MAIN BENT CAP REINFORCEMENT.
- ** CLEARANCE TO BOTTOM
MAIN BENT CAP REINFORCEMENT.



NOTE: PLATFORM NOT SHOWN

- DENOTES CLASS 140 DRIVEN CONCRETE PILE.

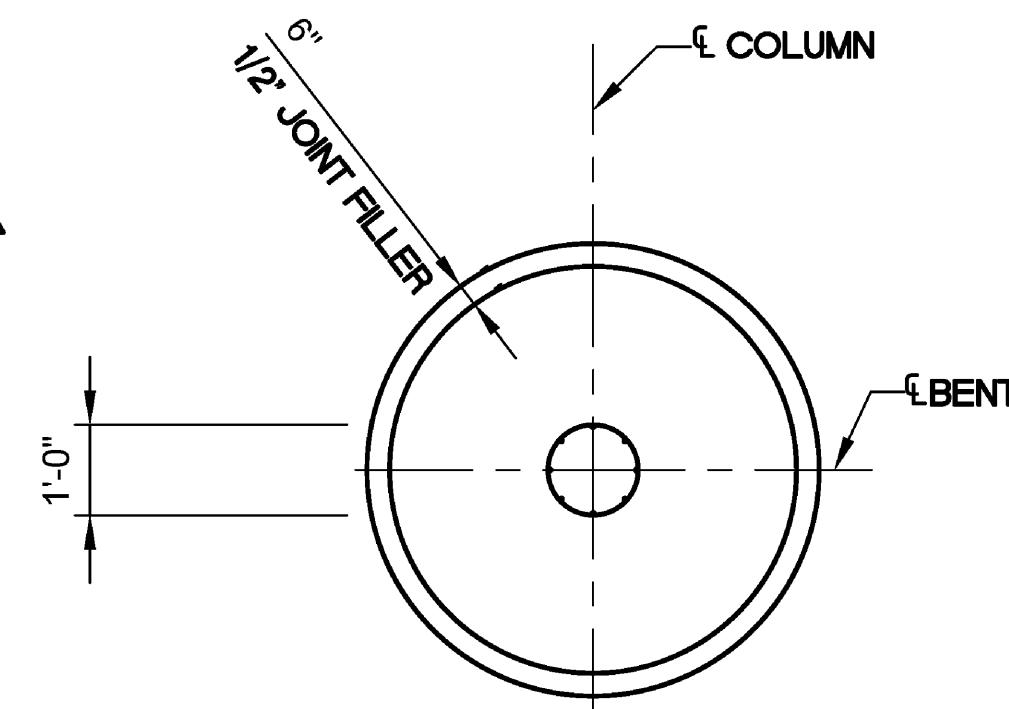




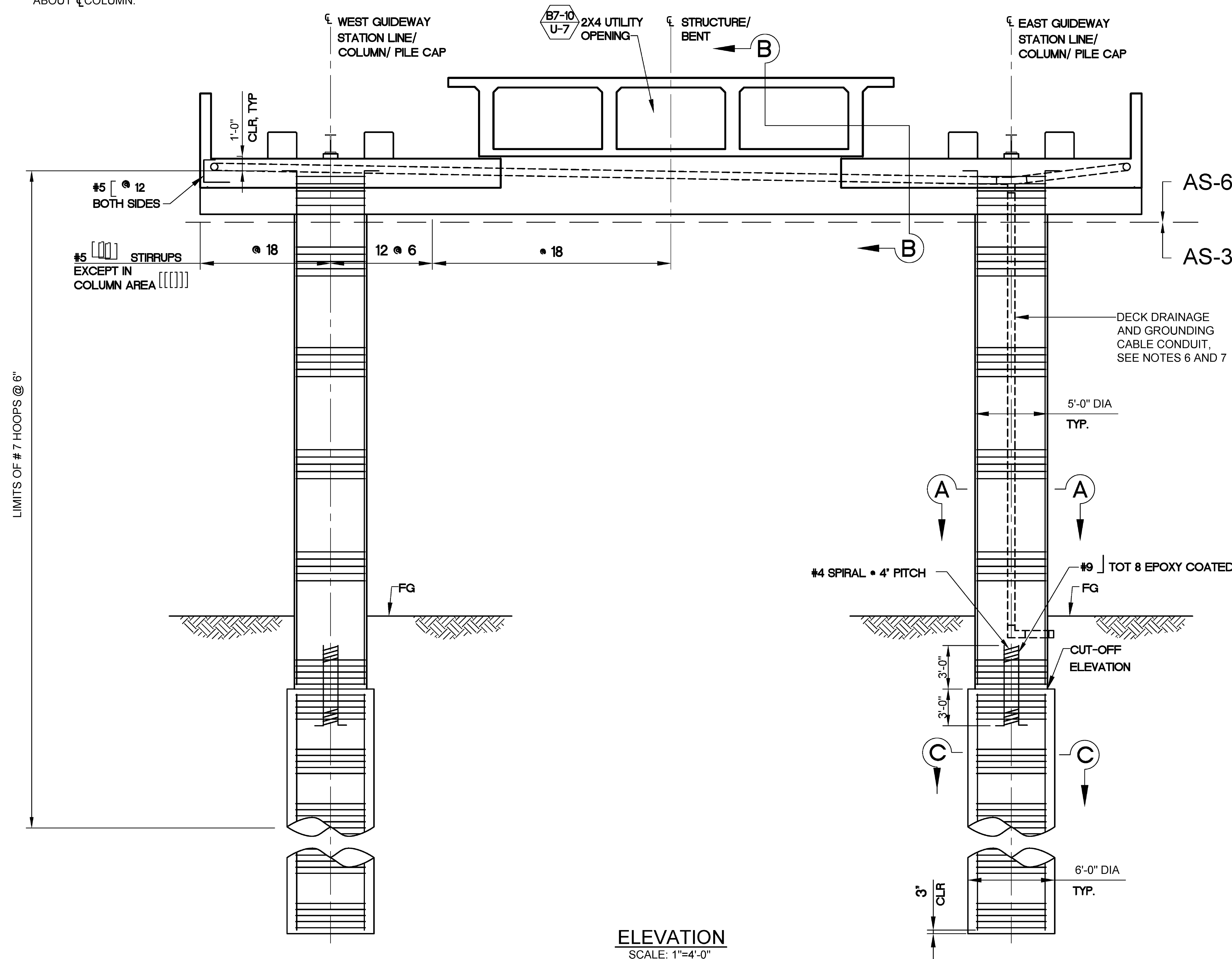
NOTES:

1. NO SPLICE ALLOWED IN MAIN COLUMN AND BENT CAP REINFORCEMENT.
2. ALL HOOPS ARE "ULTIMATE" BUTT WELD.
3. FOR COLUMN AND SHAFT LOCATIONS, SEE "FOUNDATION PLAN NO. 1 & NO. 2" SHEETS CA10.002 AND CA10.003.
4. BENT 1 SHOWN, BENT 14 IS SIMILAR.
5. FOR "COLUMN RECESS DETAIL", SEE "BENT DETAILS NO. 1" SHEET CA10.006.
6. CONNECT GUIDEWAY DRAINAGE TO DRAINAGE SYSTEM, SEE DRAINAGE PLANS. OMIT DRAINAGE ON BENT 1.
7. GROUNDING CABLE TO BE PLACED IN EAST COLUMN ON TWO COLUMN BENTS. CONDUIT TO TERMINATE ON BOTH SIDES OF EMERGENCY PLATFORM AND UNDER FINISH GRADE.
8. COLUMN VERTICAL REINFORCEMENT IS SYMMETRICAL ABOUT ℓ COLUMN.
9. A SIX FOOT LONG LOOP OF #4 WIRE SHALL BE INSTALLED ON BOTH SIDES OF THE EMERGENCY PLATFORM. FOR DETAILS NOT SHOWN, SEE "WASH PLATFORM DETAILS" SHEET, CA10.023.

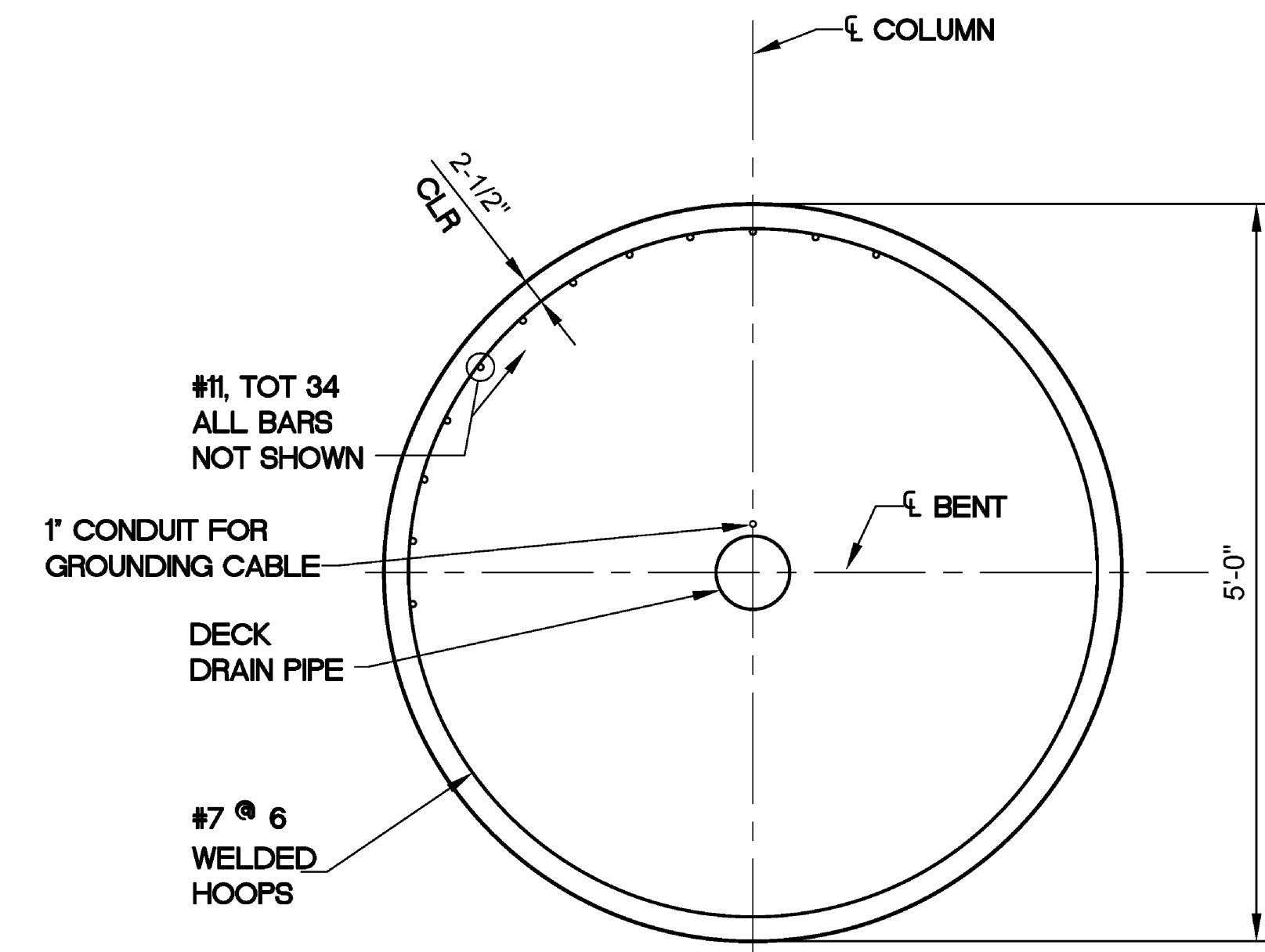
PLAN
SCALE: 1"=4'-0"



BOTTOM OF COLUMN DETAIL
SCALE: 1"=2'-0"

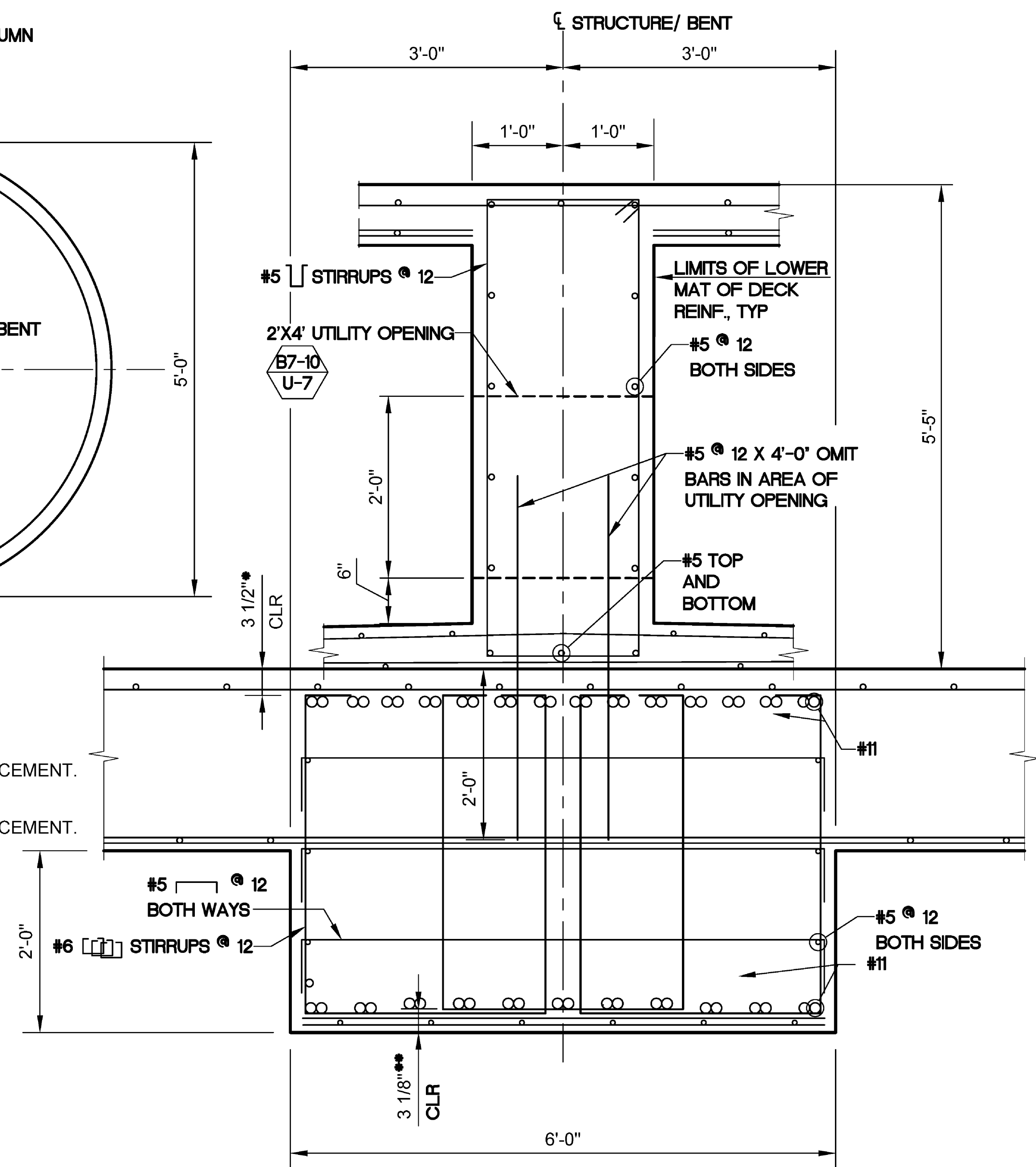


ELEVATION
SCALE: 1"=4'-0"

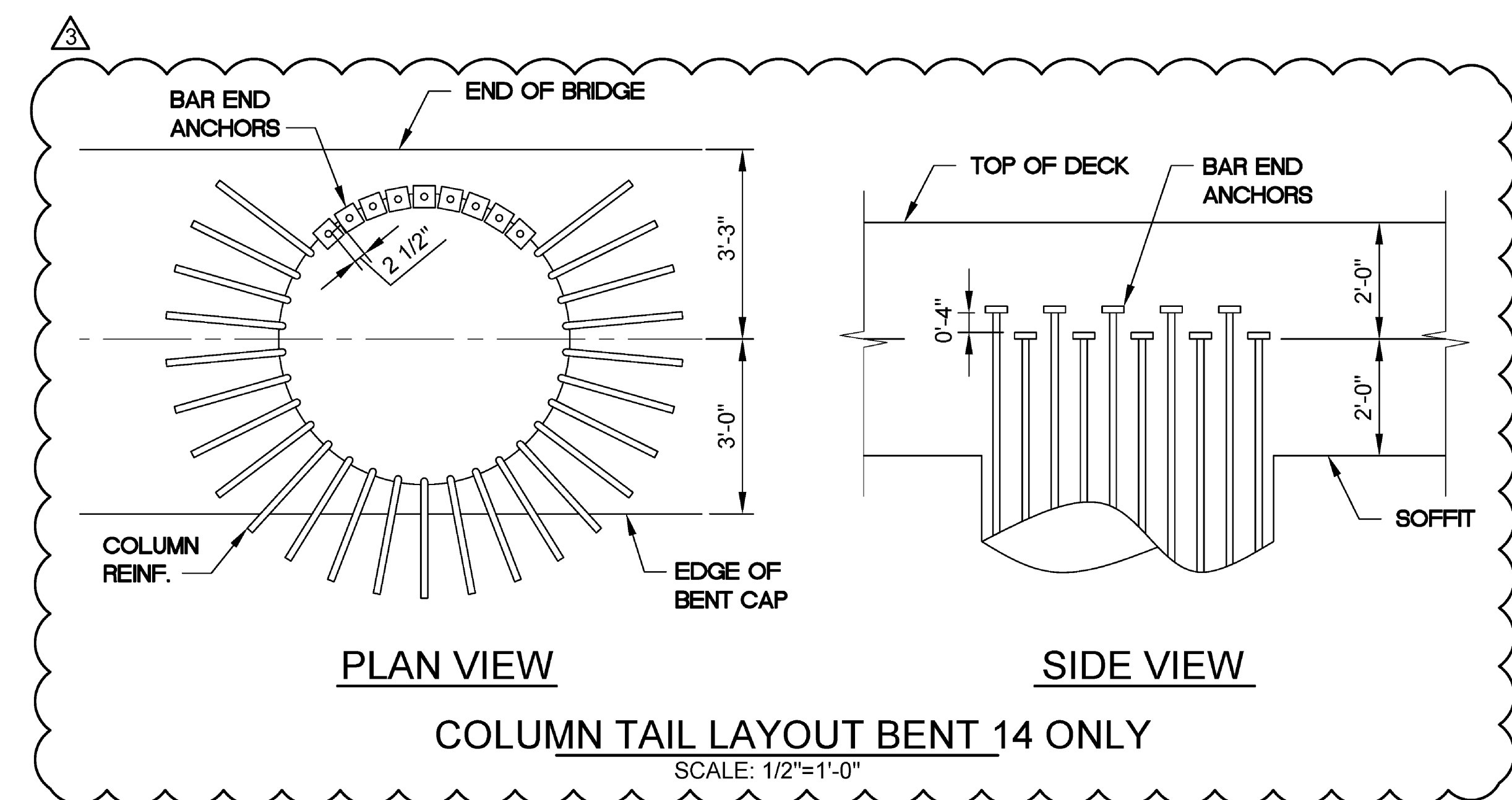


SECTION A-A
SCALE: 1"=1'-0"

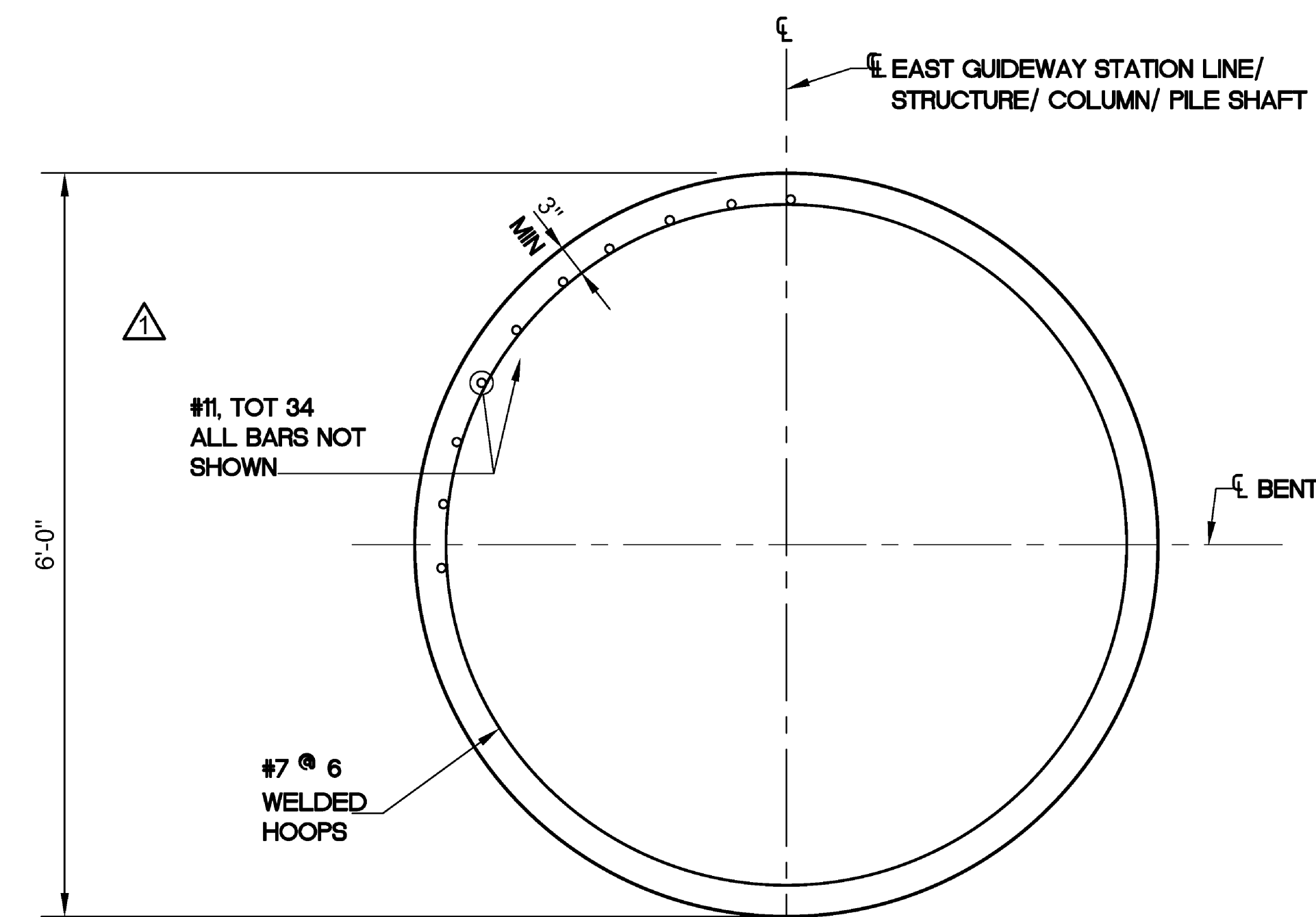
- * CLEARANCE TO TOP MAIN BENT CAP REINFORCEMENT.
- ** CLEARANCE TO BOTTOM MAIN BENT CAP REINFORCEMENT.



SECTION B-B
SCALE: 1"=1'-0"



COLUMN TAIL LAYOUT BENT 14 ONLY
SCALE: 1/2"=1'-0"



SECTION C-C
SCALE: 1"=1'-0"



FENTRESS | ARCHITECTS

ISSUES
000 12.01.08 95% REVIEW
001 12.22.08 IFC DCN AS018
REVISIONS
001 12.22.08 DCN AS018
002 10.02.09 DCN AS060
003 12.04.09 DCN AS067

TERMINAL MODERNIZATION PROGRAM
AIRSIDE CONCOURSE B PROJECT

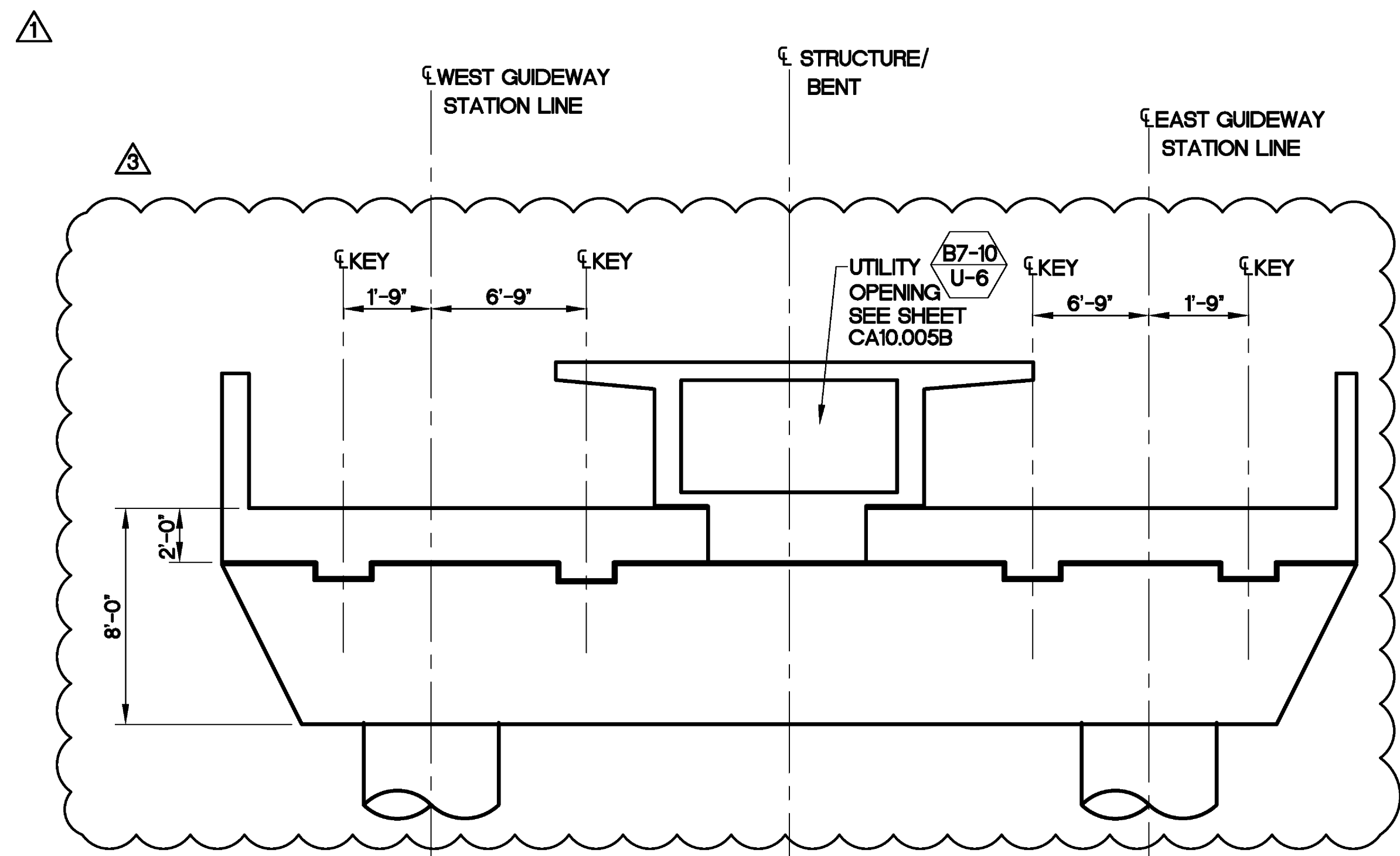
Central Terminal B
Sacramento International Airport

02/02/12
RECORD DRAWINGS

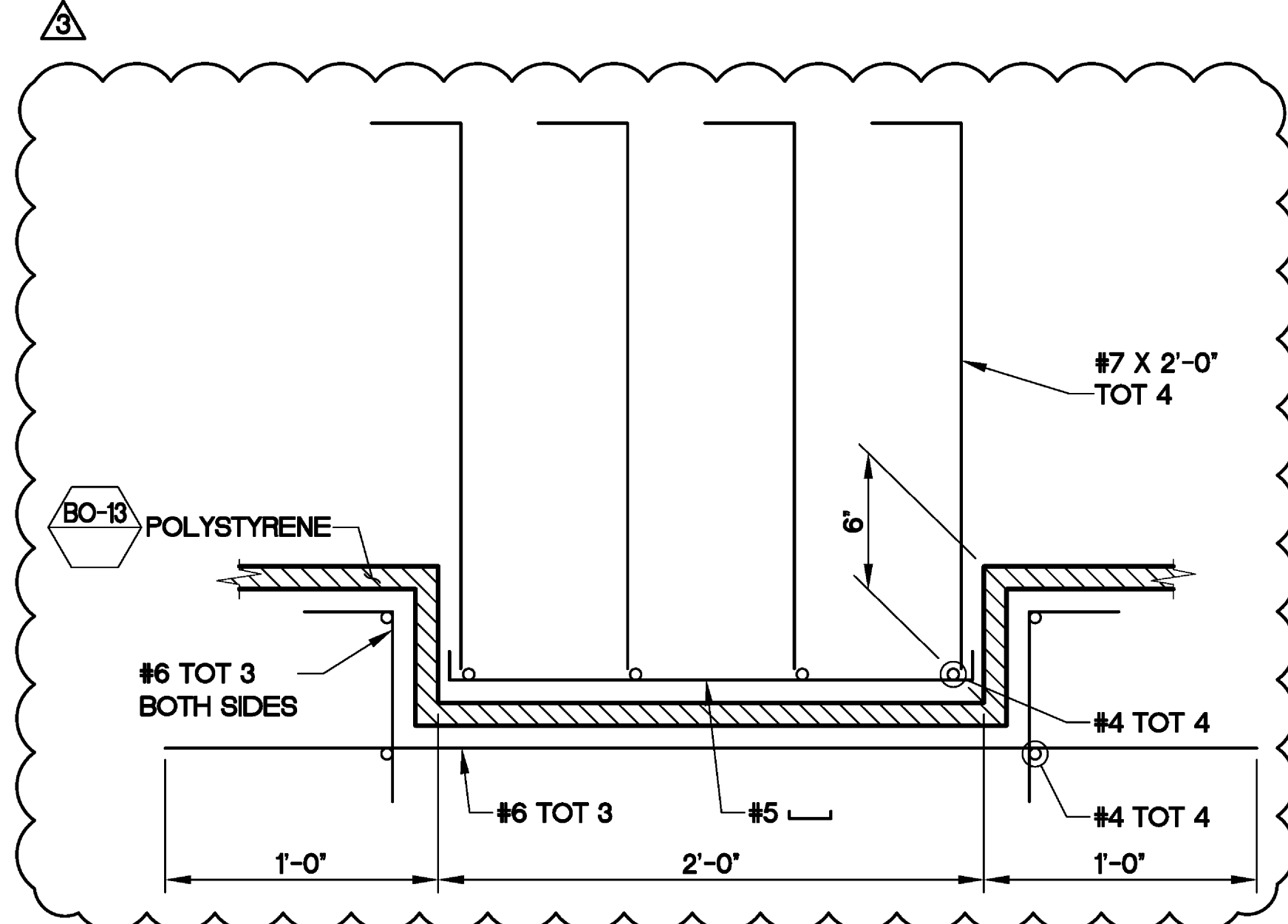
APM ELEVATED GUIDEWAY

BENT DETAILS NO. 4
JOB: 05003.0000
DATE: 12.22.08

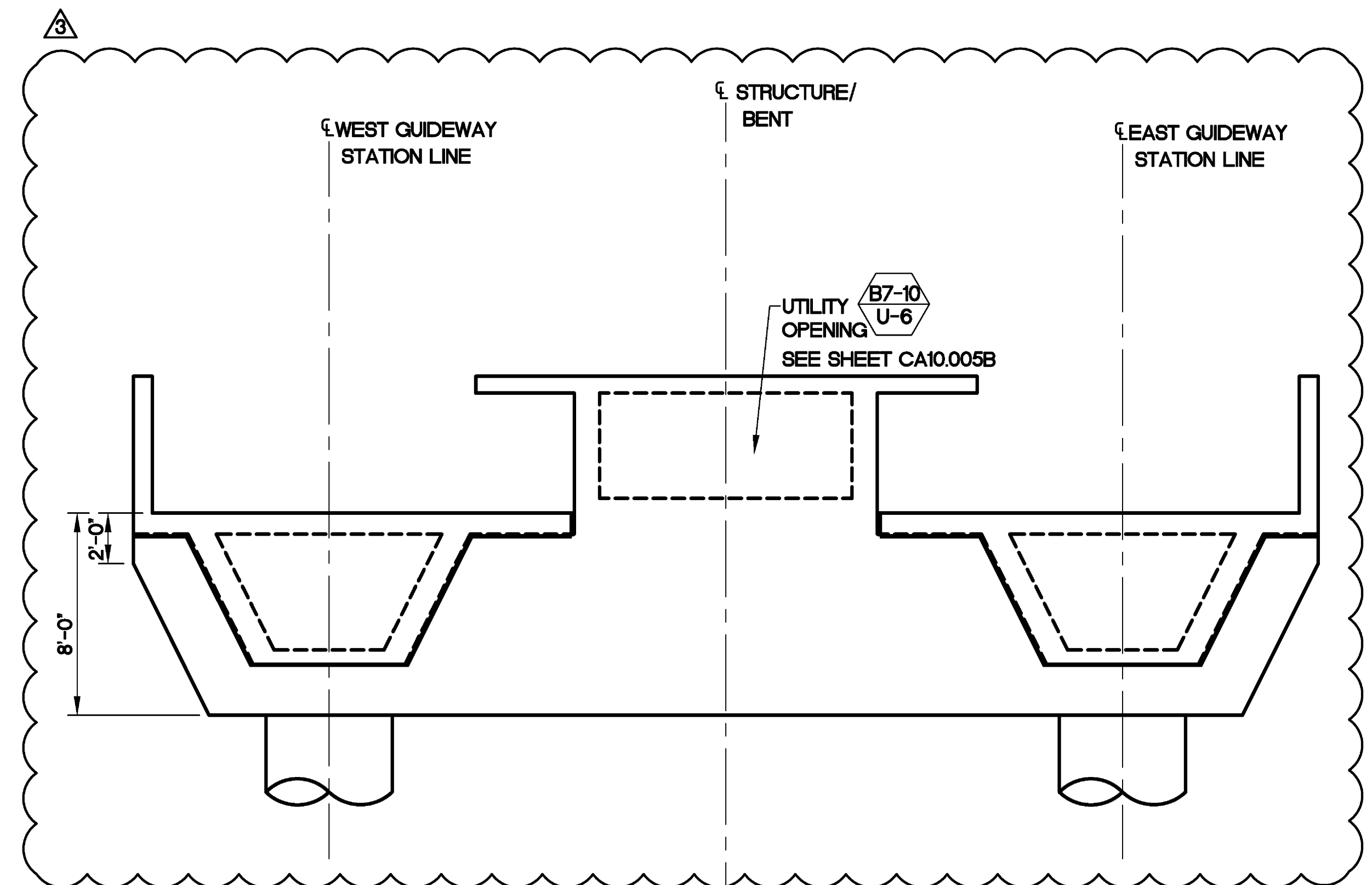
SHEET:
CA10.009
REVISION NO: AS-003



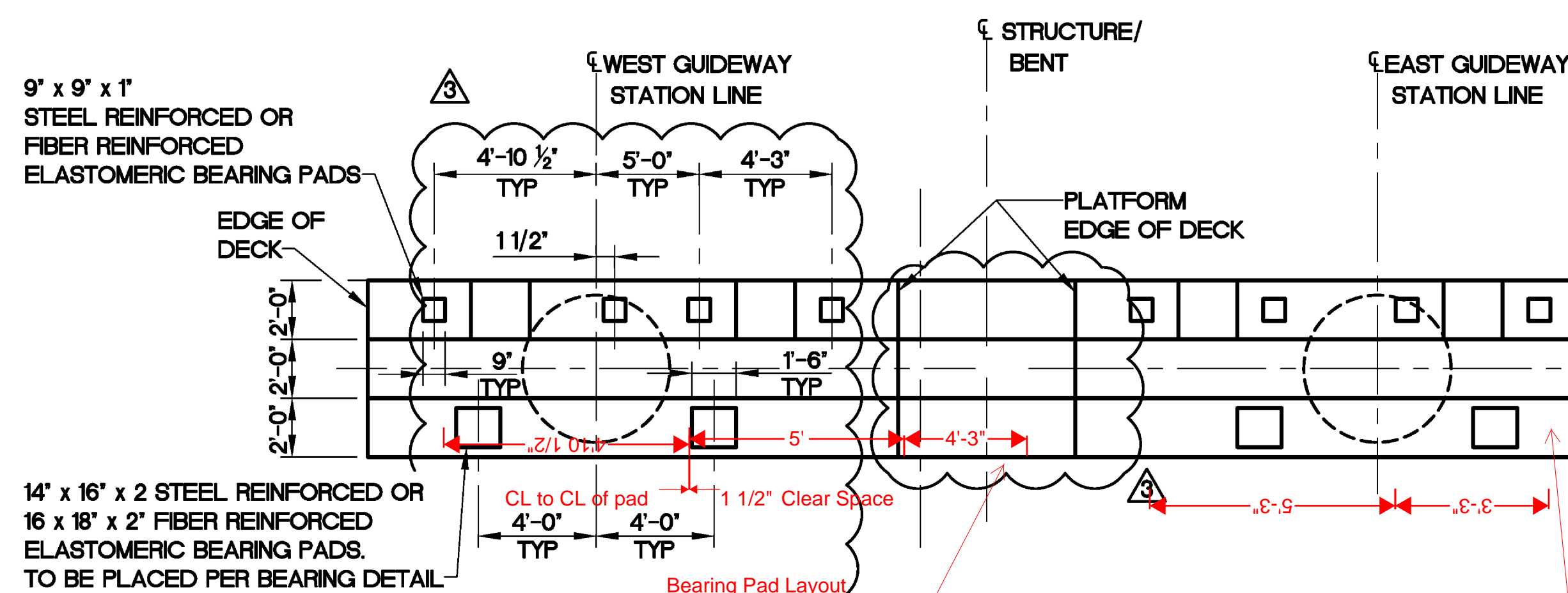
ELEVATION - BENT 4 FRONTSIDE
SCALE: 1"=4'-0"



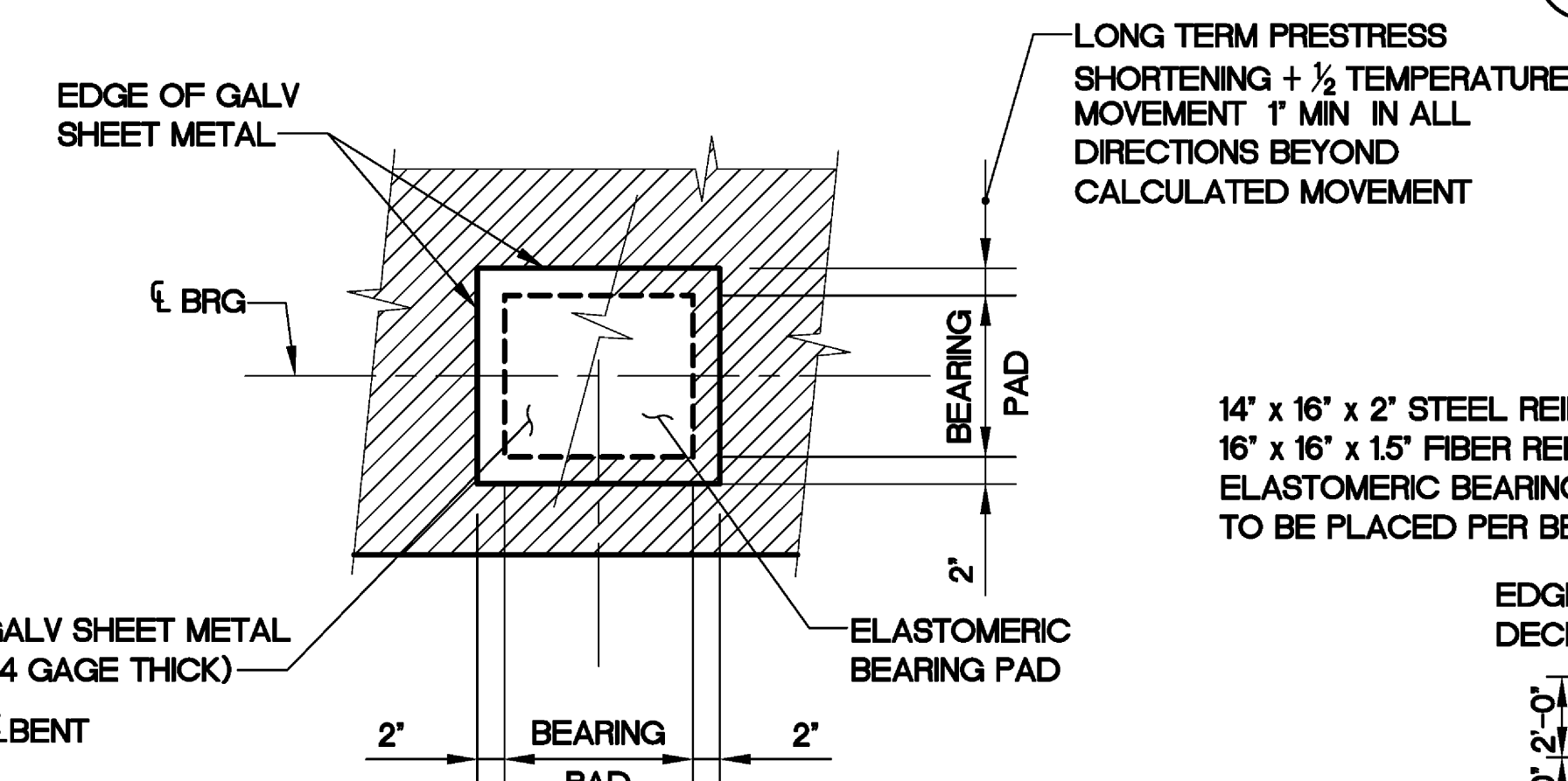
KEY DETAIL
SCALE: 2"=1'-0"



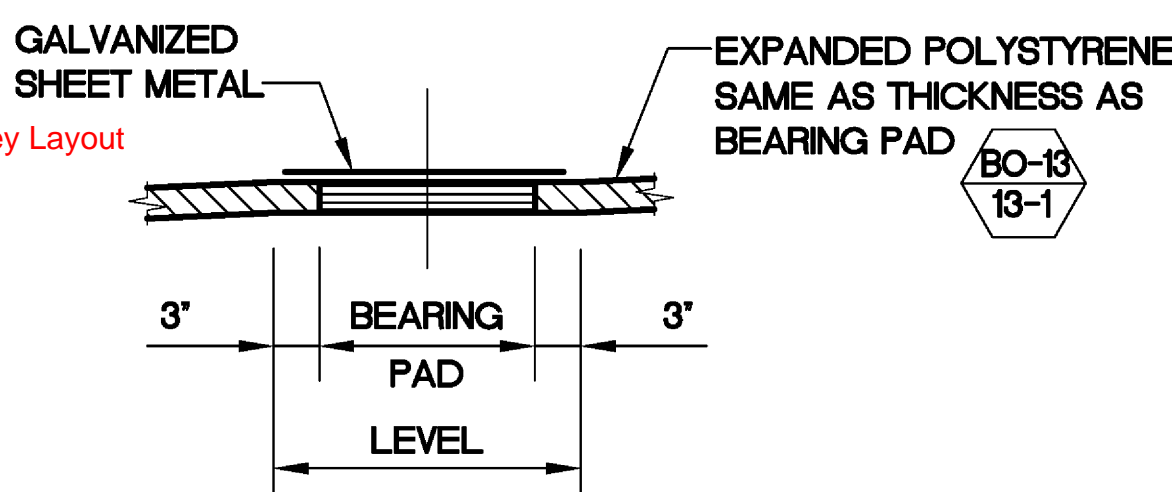
ELEVATION - BENT 9 FRONTSIDE
SCALE: 1"=4'-0"



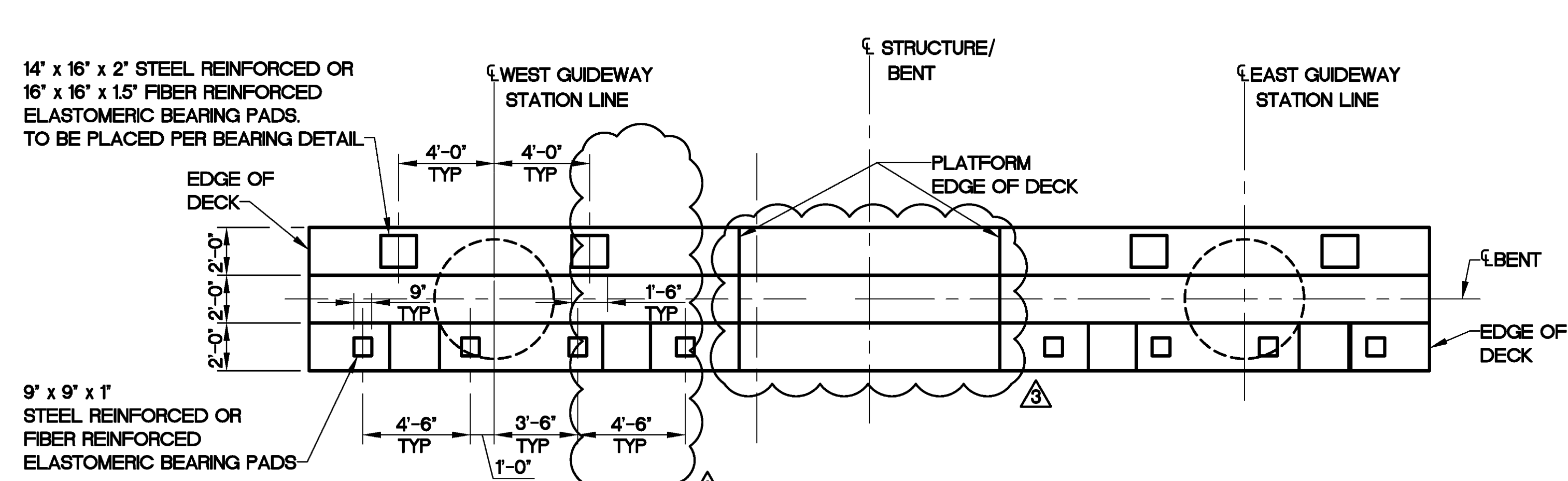
PLAN - BENT 4
SCALE: 1"=4'-0"



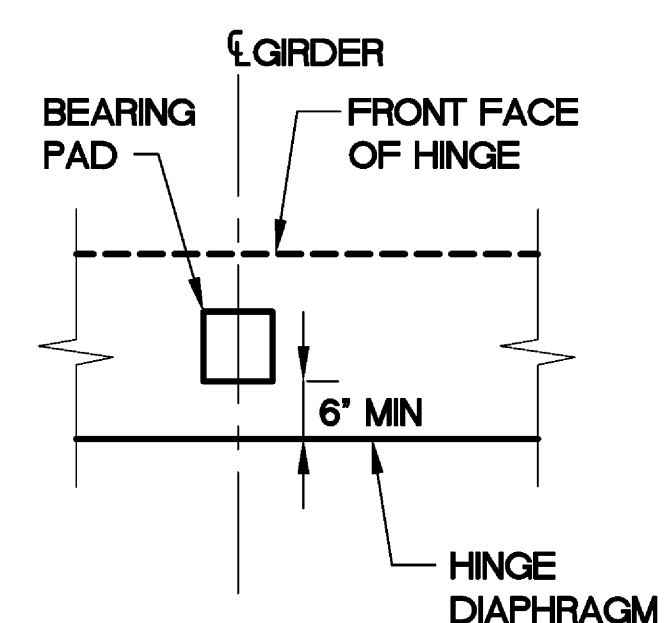
PLAN



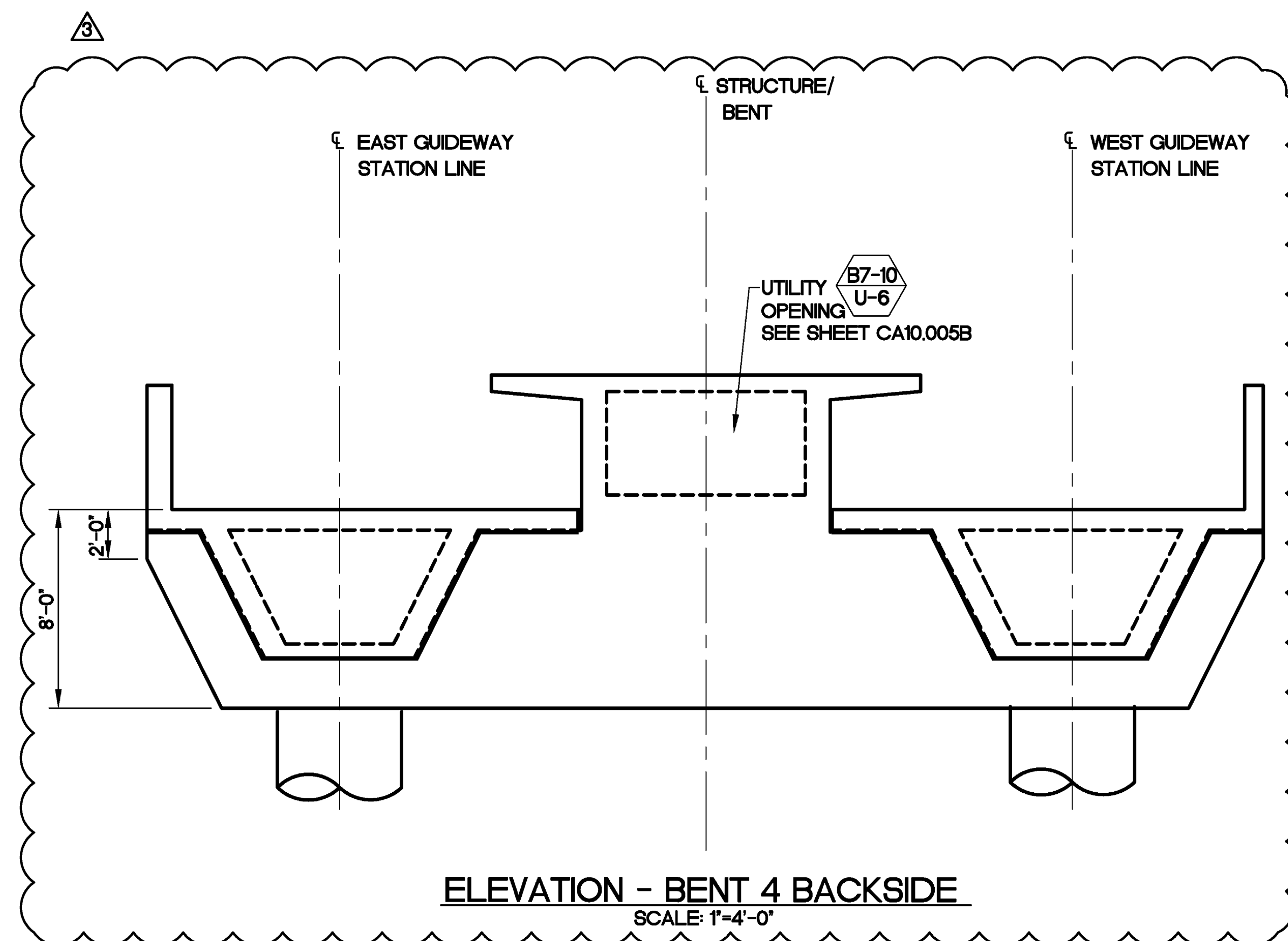
BEARING PAD DETAIL
NO SCALE
DETAILS TYPICAL AT ALL BEARING PADS



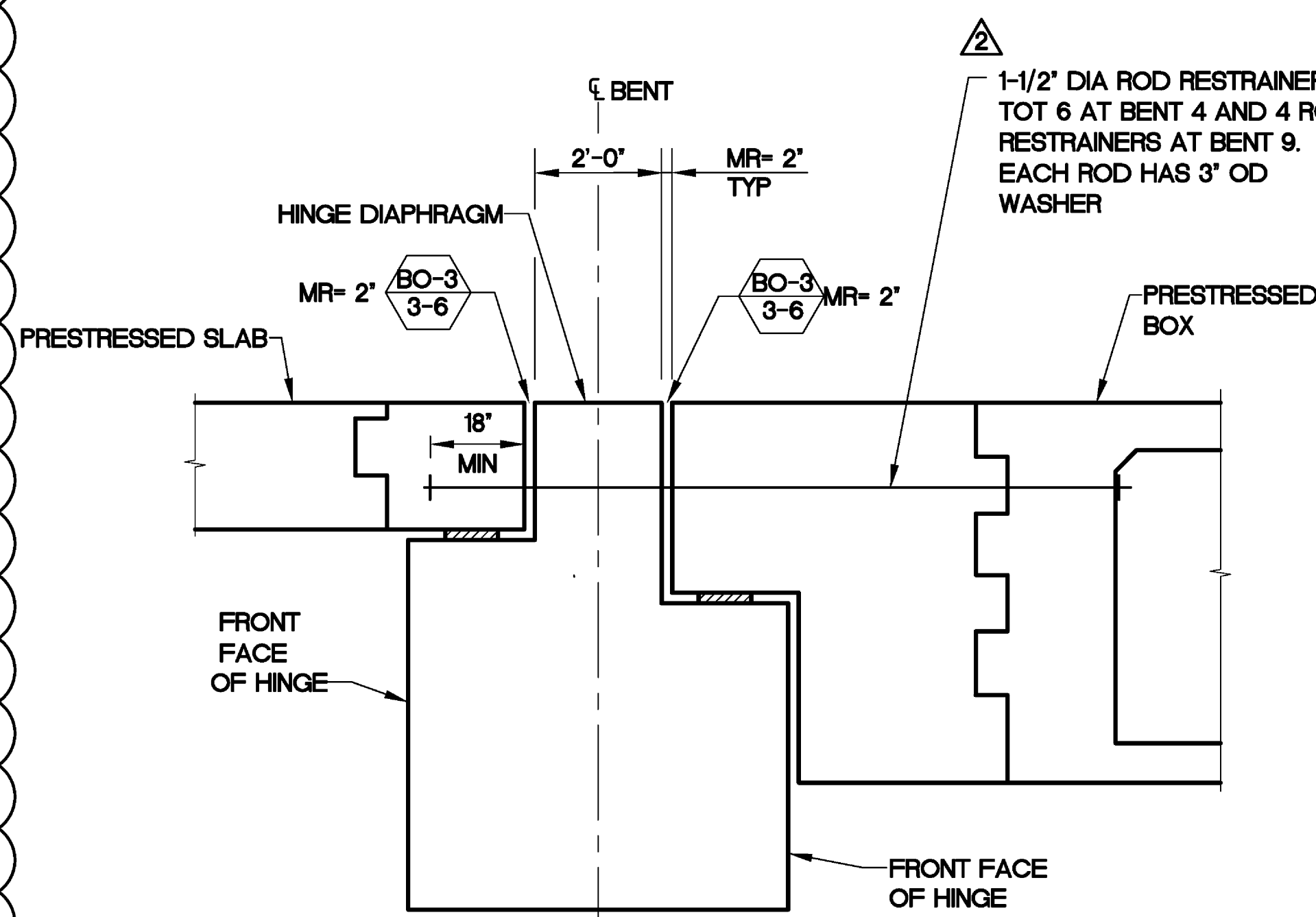
PLAN - BENT 9
SCALE: 1"=4'-0"



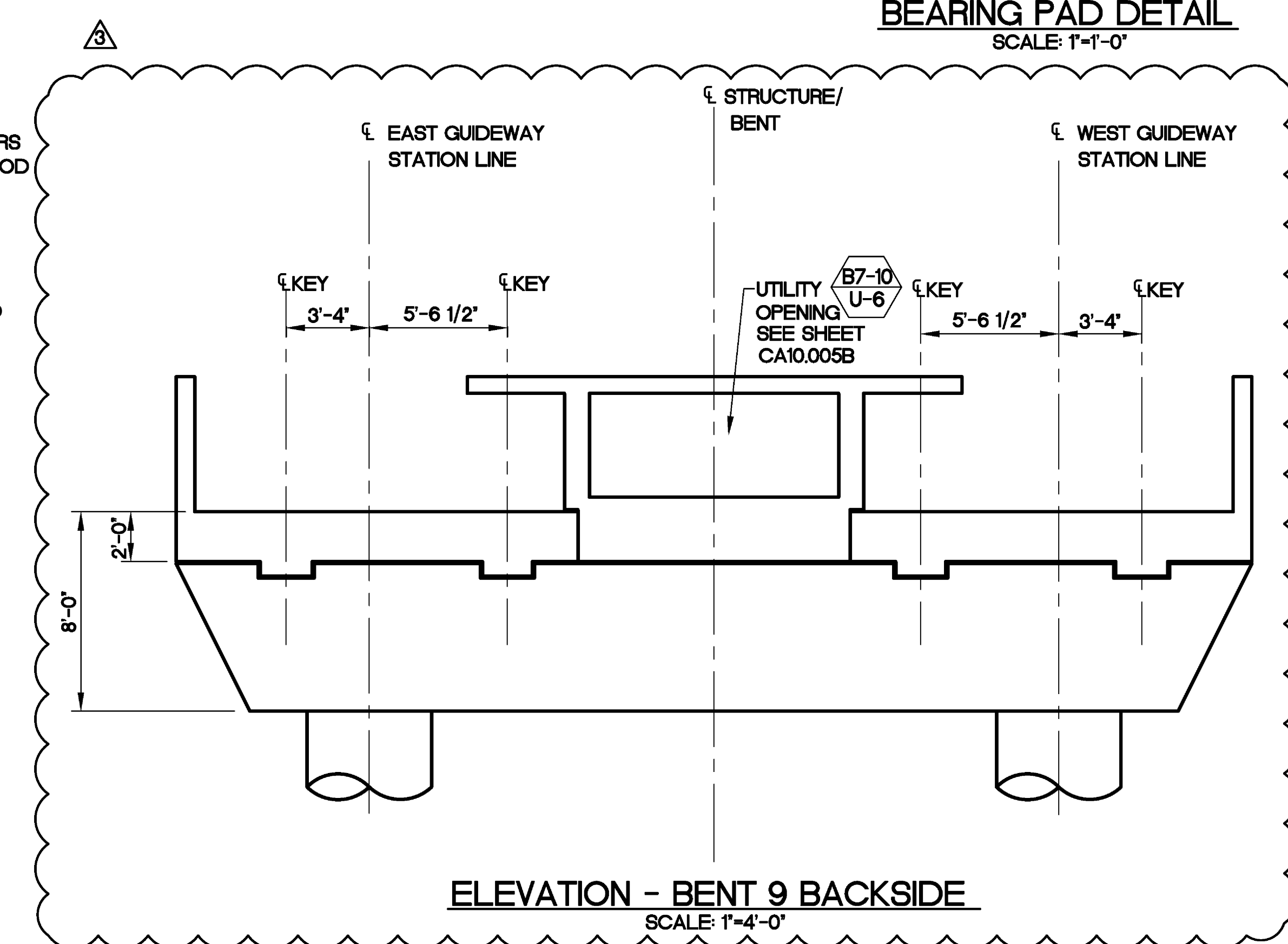
BEARING PAD DETAIL
SCALE: 1"=1'-0"



ELEVATION - BENT 4 BACKSIDE
SCALE: 1"=4'-0"



ELEVATION
SCALE: 1"=1'-0"



ELEVATION - BENT 9 BACKSIDE
SCALE: 1"=4'-0"



FENTRESS | ARCHITECTS

ISSUES
000 12.01.08 95% REVIEW
001 12.22.08 IFC DCN AS018
REVISIONS
001 03.02.09 DCN AS025
002 08.14.09 DCN AS052
003 12.04.09 DCN AS067

TERMINAL MODERNIZATION PROGRAM
AIRSIDE CONCOURSE B PROJECT

Central
Terminal B
Sacramento International Airport

02/02/12
RECORD DRAWINGS

APM ELEVATED
GUIDEWAY

BENT DETAILS NO. 5

JOB: 05003.0000

DATE: 12.22.08

SHEET:

CA10.010

REVISION NO: AS-003



FENTRESS ARCHITECTS

ISSUES
000 12.01.08 95% REVIEW
001 03.02.09 IFC DCN AS025
REVISIONS
001 08.14.09 DCN AS052
002 10.02.09 DCN AS060

TERMINAL MODERNIZATION PROGRAM
AIRSIDE CONCOURSE B PROJECT

Central
Terminal B
Sacramento International Airport

02/02/12
RECORD DRAWINGS

APM ELEVATED
GUIDEWAY

BENT DETAILS NO. 6

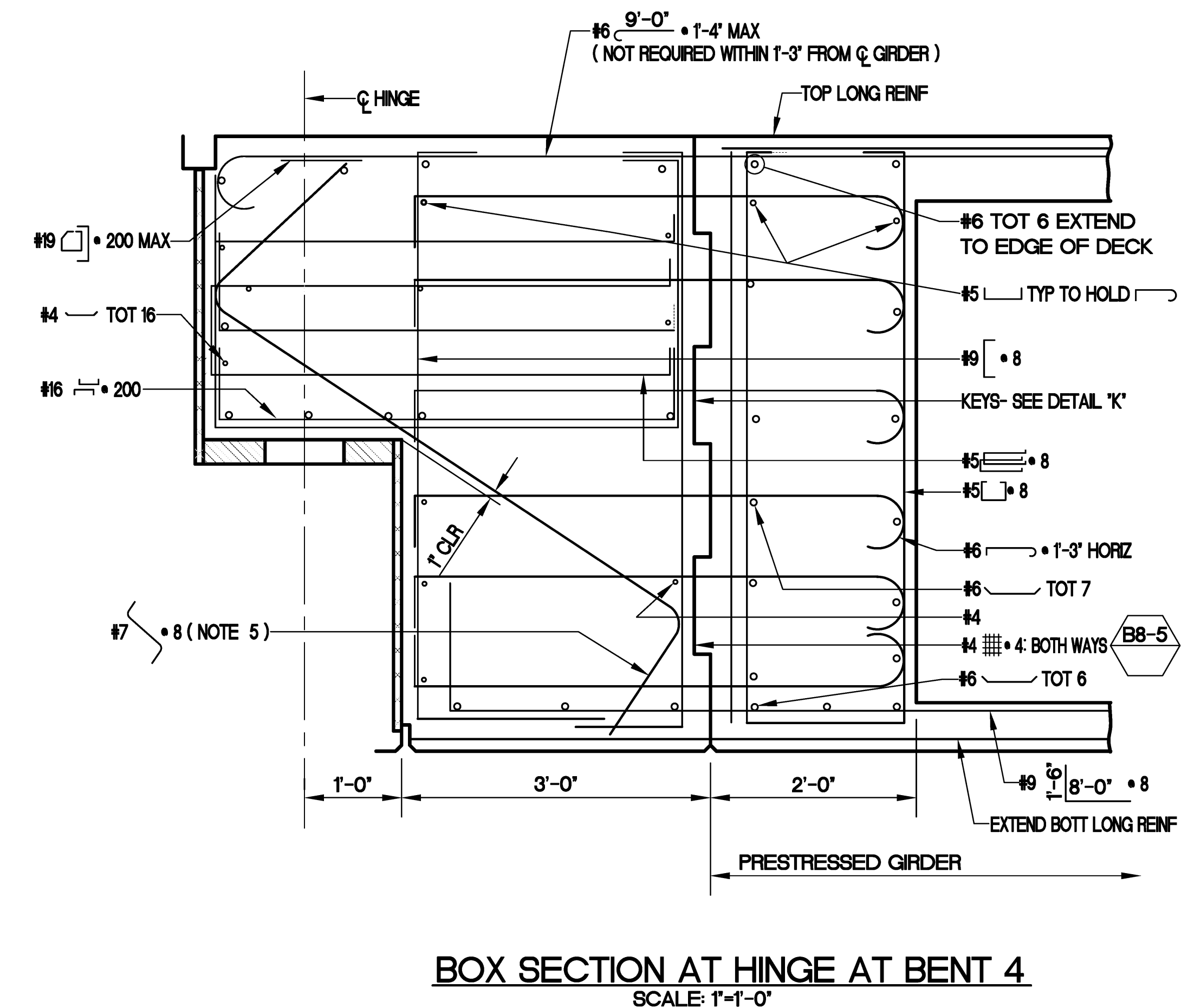
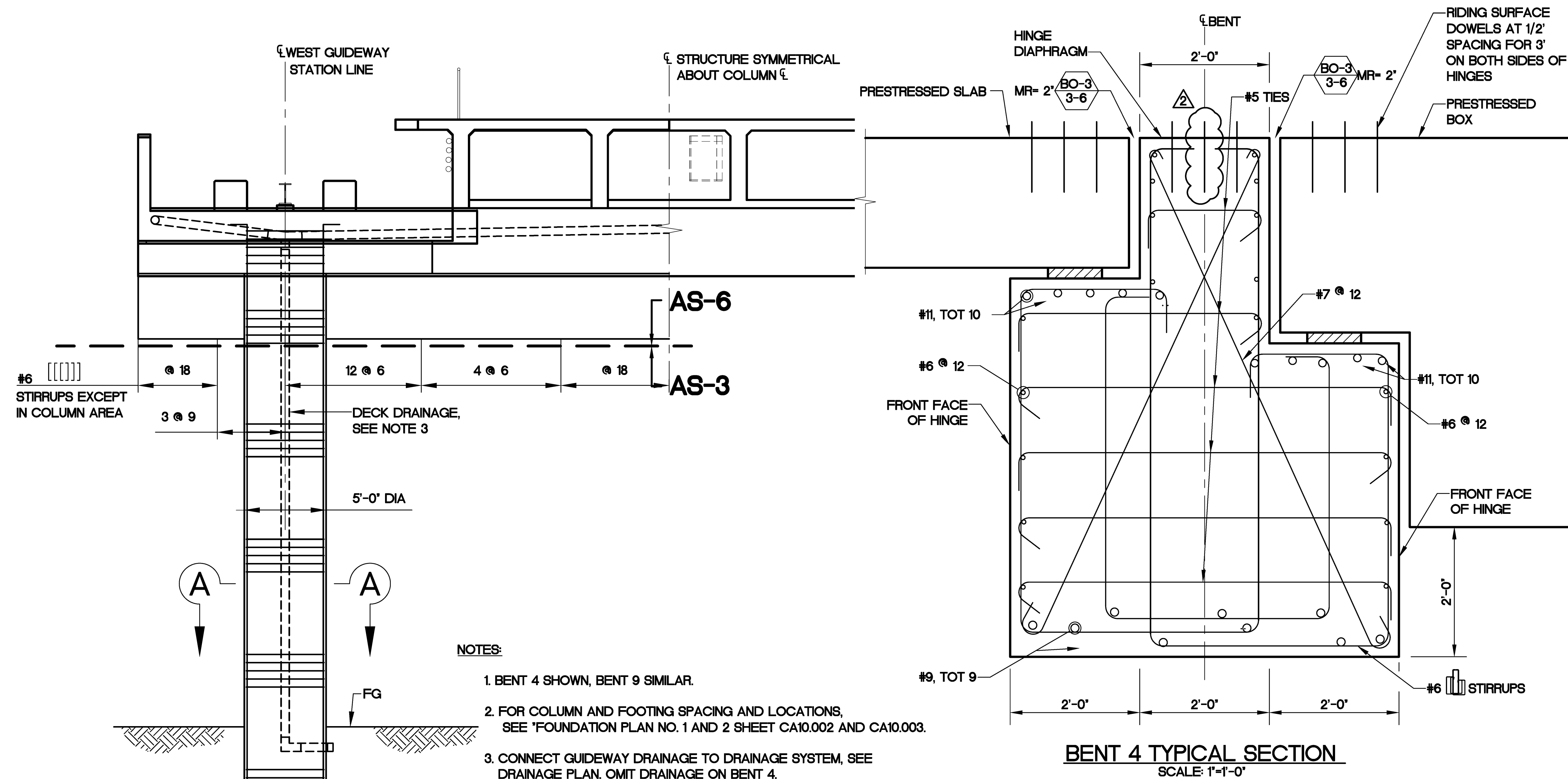
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DATE: 03.02.09

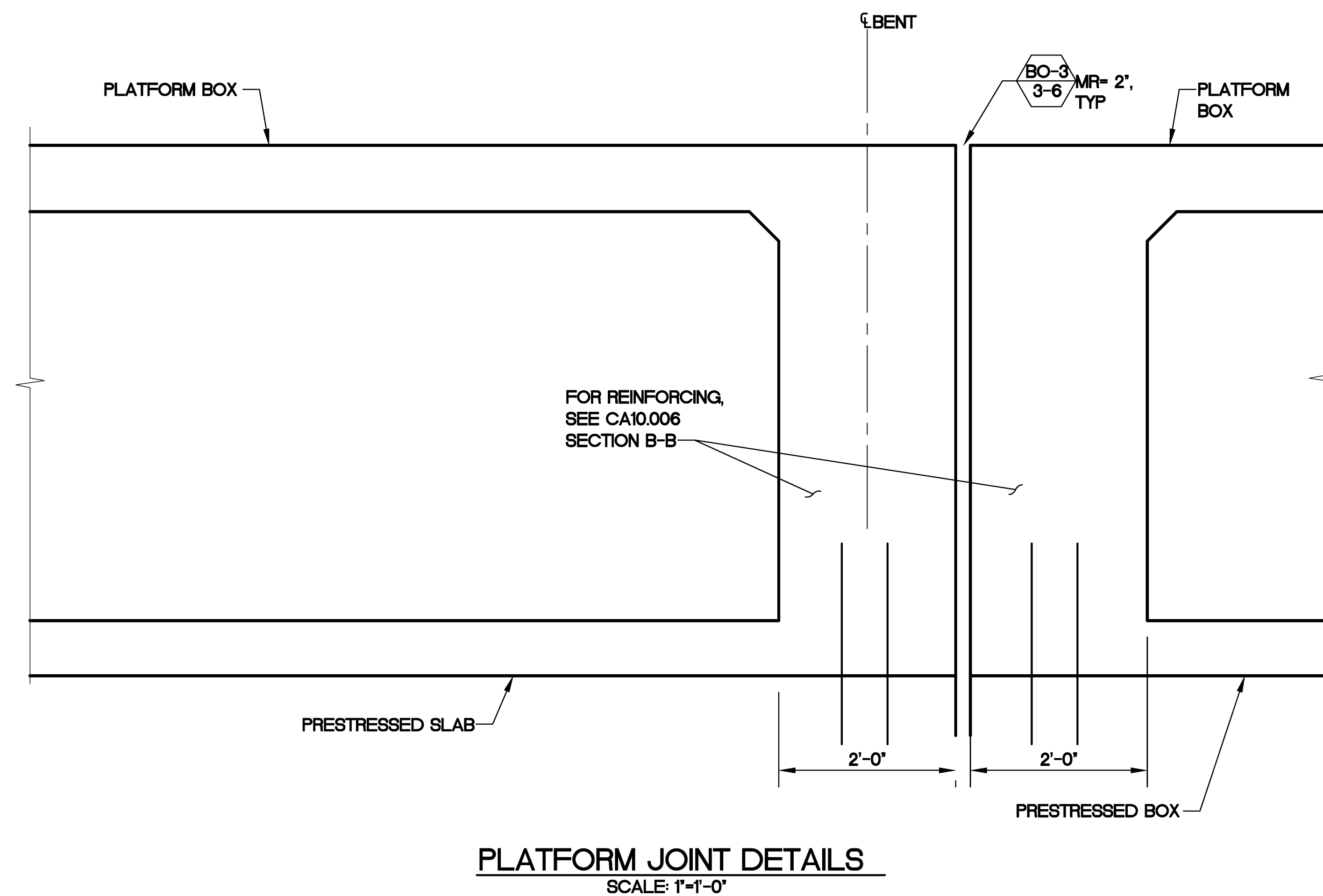
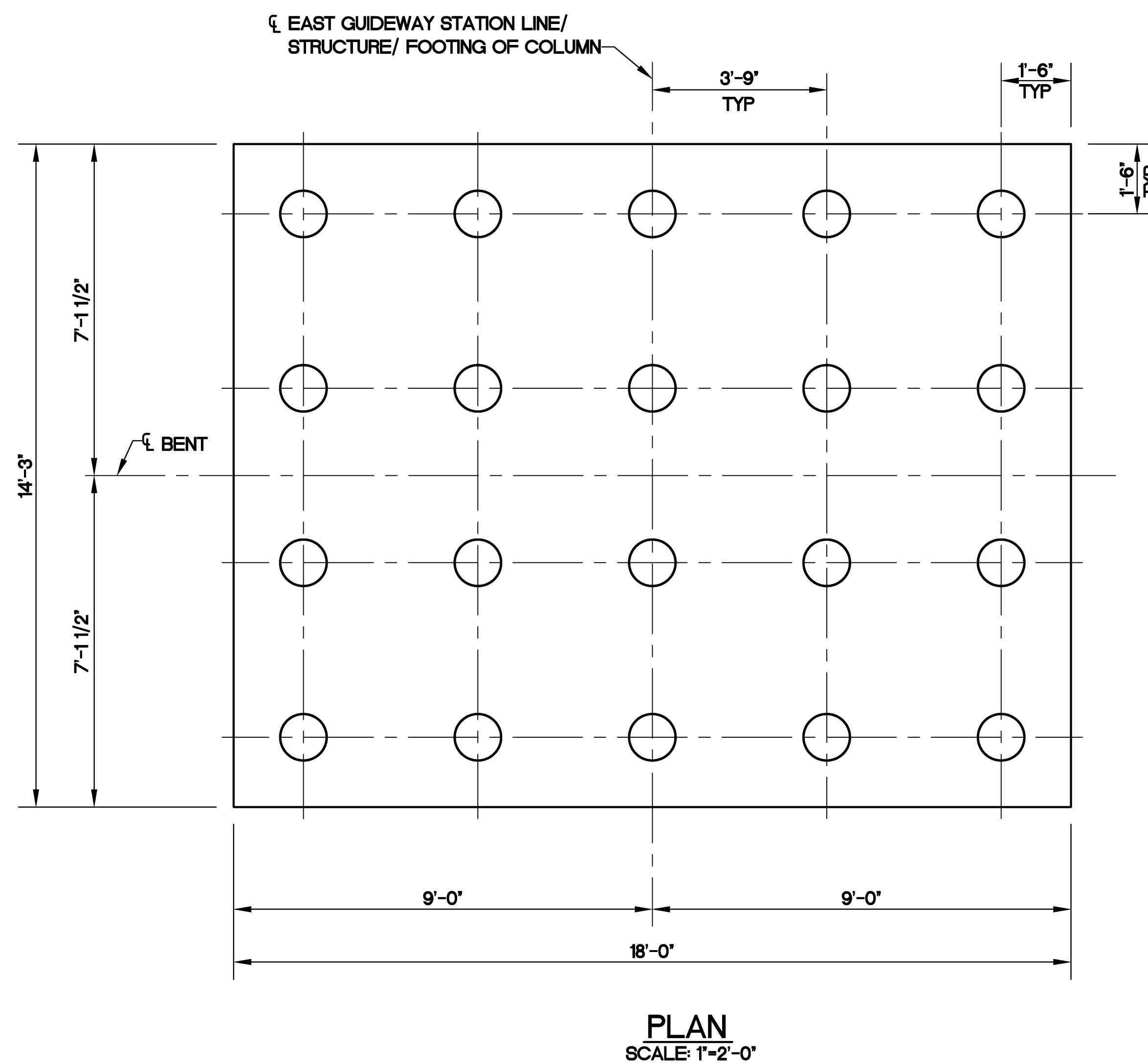
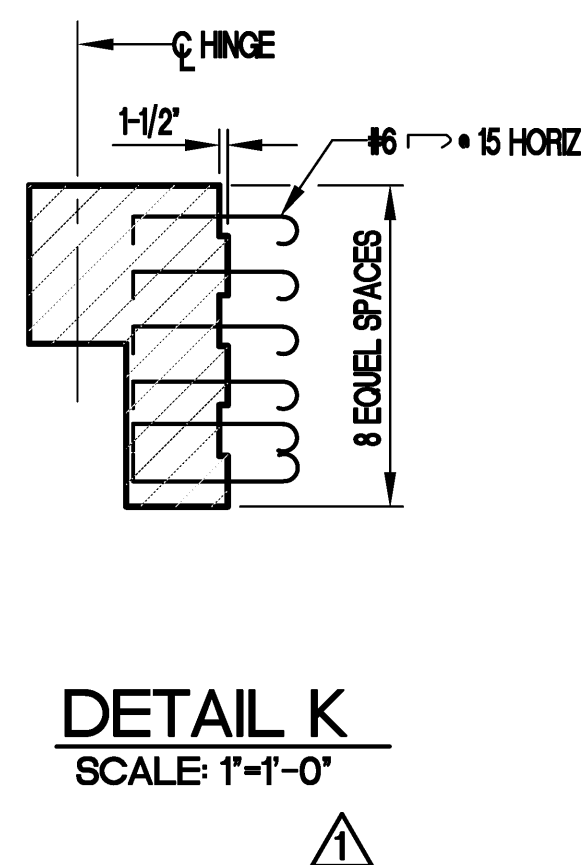
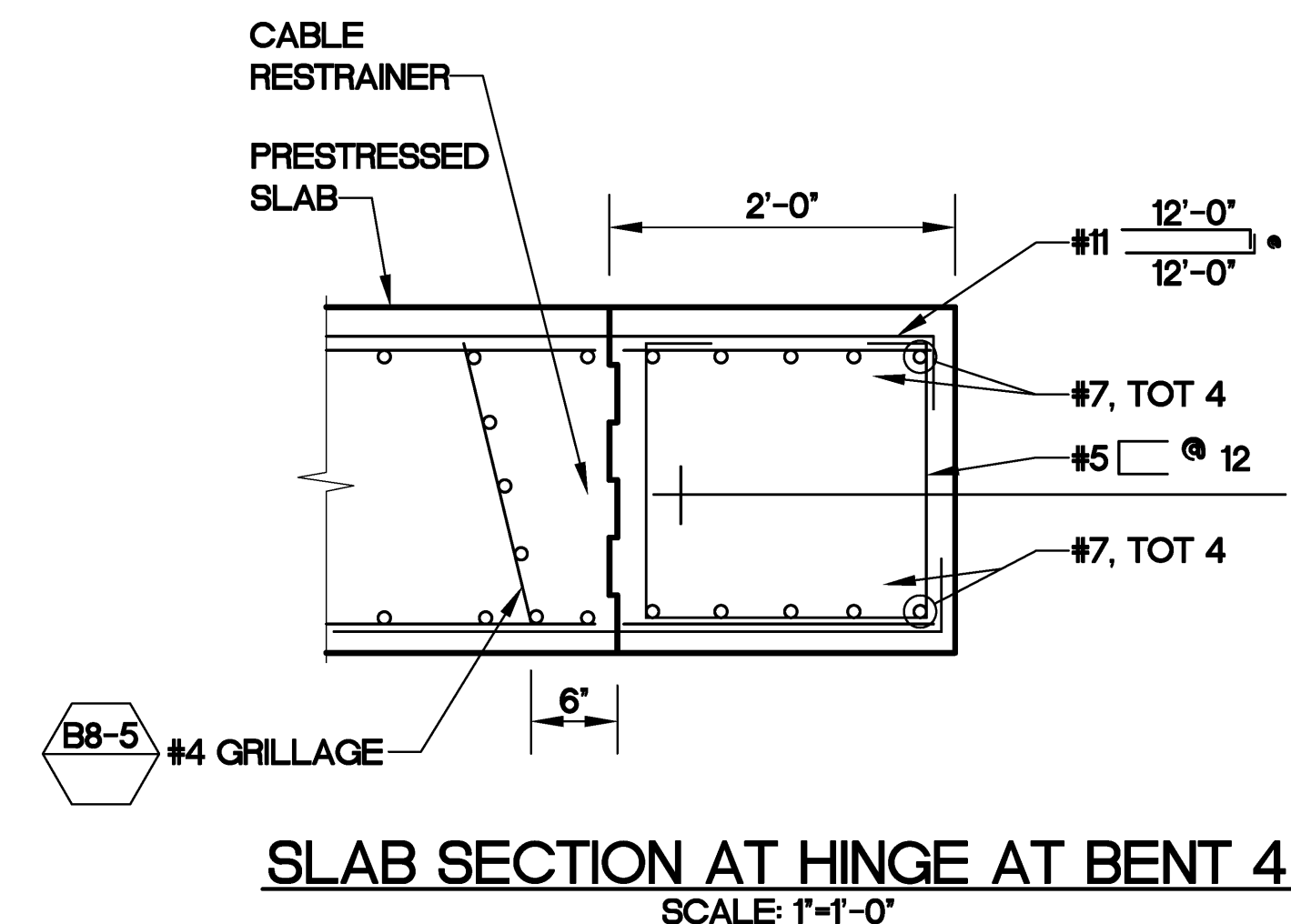
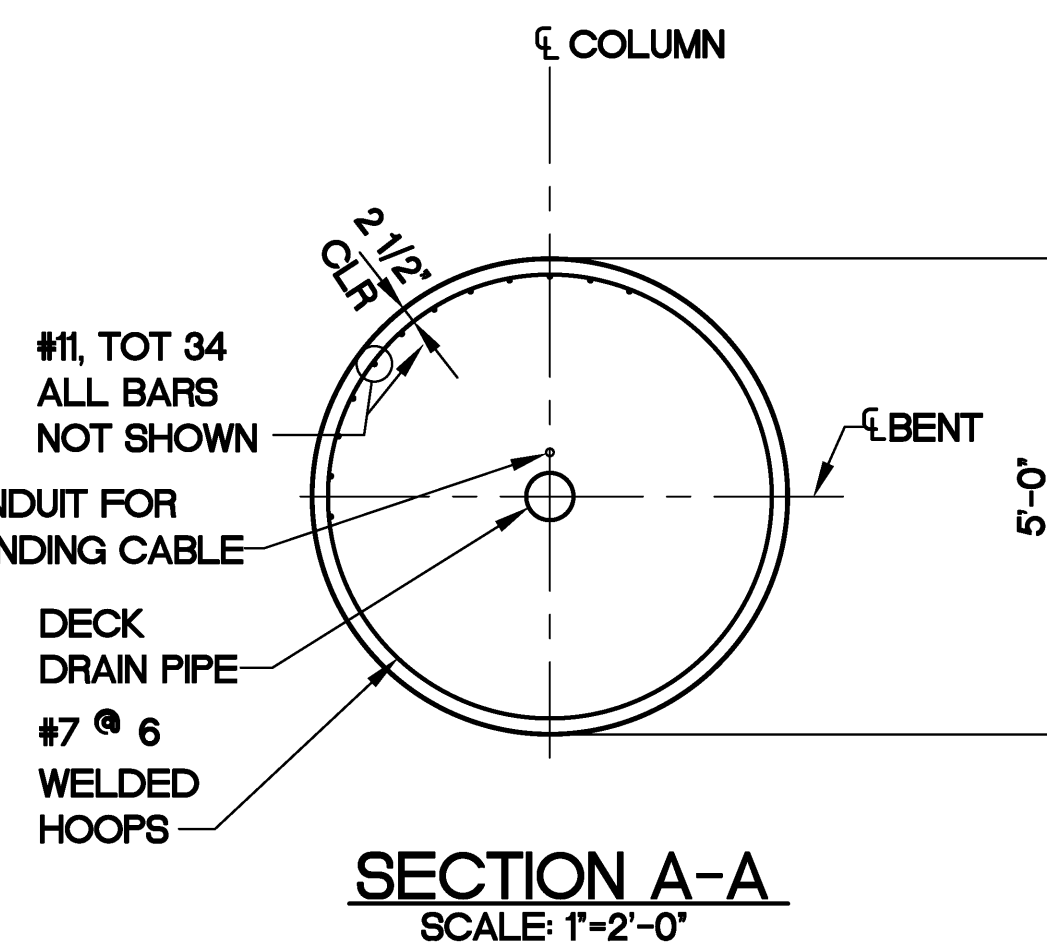
SHEET:

CA10.010A

REVISION NO: AS-002



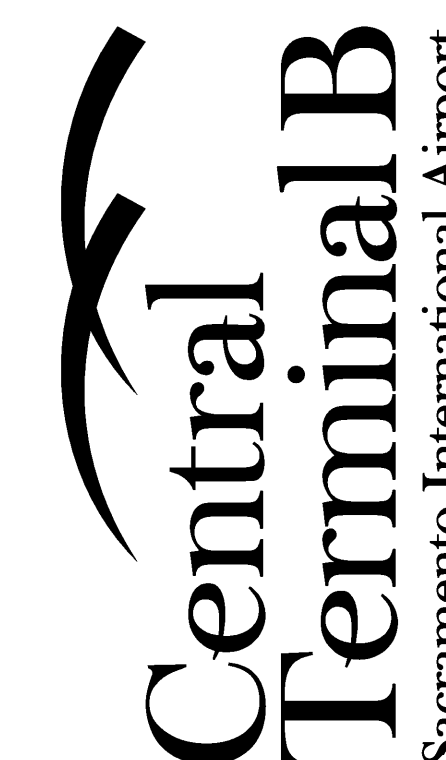
ELEVATION
SCALE: 1"=4'-0"





△	REVISIONS
001	03.02.09 DCN AS025
002	04.27.09 DCN AS035
003	10.02.09 DCN AS060

TERMINAL MODERNIZATION PROGRAM
AIRSIDE CONCOURSE B PROJECT



02/02/12
RECORD DRAWING

APM ELEVATED
GUIDEWAY

BENT GRADES
JOB: 05003.0000
DATE: 12.22.08

SHEET:

CA10.011

REVISION NO: AS-003



SCALE: 1"=5'-0"



SCALE: 1"=5'-0"

Column Type	Bent	East	East	East	East	East	East	East	Distance between Alignments (ft)	West	West	West	West	West	West	West
		Alignment CL station	Alignment Profile Elev. (ft)	E1 (ft)	E2 (ft)	E3 (ft)	East L1 (ft)	East L2 (ft)		Alignment CL Station	Alignment Profile Elev. (ft)	E1 (ft)	E2 (ft)	E3 (ft)	West L1 (ft)	West L2 (ft)
Fixed	1	200+08.28	72.00	62.51	62.51	24.00	17.00	5.67	34.00	100+08.25	72.00	62.51	62.51	24.00	17.00	5.67
Pinned	2	200+65.95	72.00	62.51	62.51	24.00	16.91	5.20	33.81	100+65.62	72.00	62.51	62.51	24.00	16.91	5.50
Pinned	3	201+26.25	71.51	62.03	62.02	24.00	15.82	3.67	31.63	101+20.74	71.49	62.00	62.00	24.00	15.82	4.04
Fixed	4	201+82.28	70.24	56.75	56.75	24.00	14.77	3.64	29.53	101+70.42	70.24	56.75	56.75	24.00	14.77	4.04
Fixed	5	202+84.07	66.07	52.64	52.64	24.00	13.26	1.84	26.51	102+63.40	66.08	52.64	-	-	13.26	2.79
Fixed	6	203+60.87	62.51	49.07	49.05	24.00	12.73	2.08	25.46	103+35.54	62.47	49.04	-	-	12.73	2.58
Fixed	7	204+32.42	58.98	45.54	45.50	24.00	12.73	2.64	25.45	104+07.08	58.90	45.46	-	-	12.73	2.22
Fixed	8	205+32.53	53.98	40.54	40.57	24.00	12.82	2.35	25.63	105+07.47	54.03	40.60	-	-	12.82	1.76
Fixed	9	206+00.32	50.59	37.10	37.11	24.00	13.86	3.07	27.72	105+80.13	50.66	37.18	37.16	24.00	13.86	2.79
Pinned	10*	206+54.91	47.86	38.37	38.37	24.00	15.71	4.90	31.42	106+41.12	47.83	38.35	38.35	24.00	15.71	4.69
Pinned	10**	206+54.91	47.86	38.37	38.37	24.00	15.71	1.76	31.42	106+41.12	47.83	38.35	38.35	24.00	15.71	1.67
Pinned	11	207+04.16	45.40	35.91	35.85	24.00	18.58	2.74	37.15	107+02.94	45.00	35.51	35.57	24.00	18.58	2.14
Pinned	12	207+68.58	42.90	33.41	33.39	24.00	22.21	2.95	44.42	107+71.15	42.70	33.21	33.24	24.00	22.21	1.91
Pinned	13	208+34.19	41.64	32.16	32.15	24.00	23.50	1.98	47.00	108+37.60	41.61	32.13	32.13	24.00	23.50	2.25
Fixed	14	208+98.77	41.50	32.01	32.01	24.00	23.50	2.08	47.00	109+02.17	41.50	32.01	32.01	24.00	23.50	2.26

NOTES:

1. WEST E2 AND WEST E3 APPLY TO TWO COLUMN BENTS ONLY.

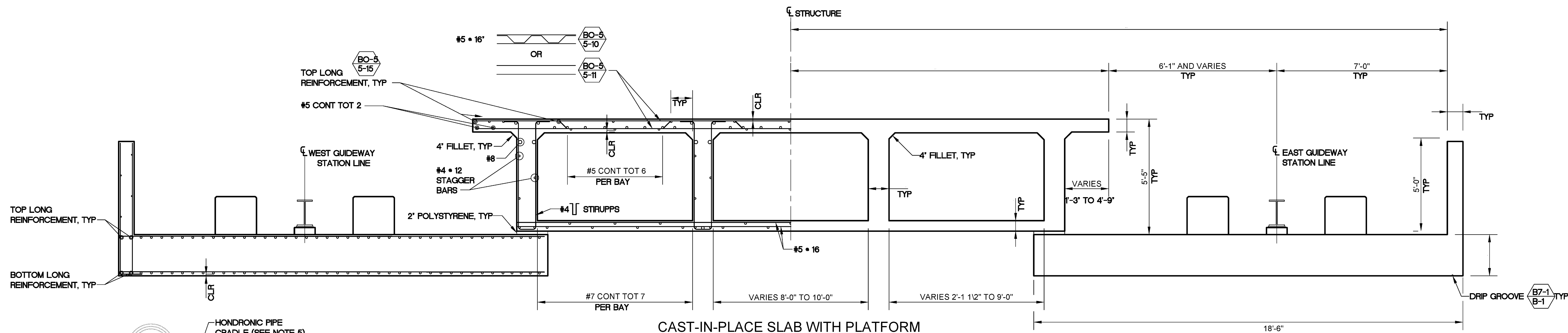
2. FOR SHAFT FOUNDATIONS CUT OFF ELEVATION IS EAST E3 AND WEST E3 ELEVATIONS.

3. E3 ELEVATION FOR PILE SHAFTS IS THE CUTOFF ELEVATION.

- LOOKING UP STATION

◆◆ LOOKING DOWN STATION

C:\Sacramento\Organ Assoctes\33111-SMF Terminal Modernization\10.0 DRAWINGS\01 - APVA - SMF R/W PLANS\CA10.012 APVA-TS2-c.dwg Dec 03, 2009 08:01pm bur52804



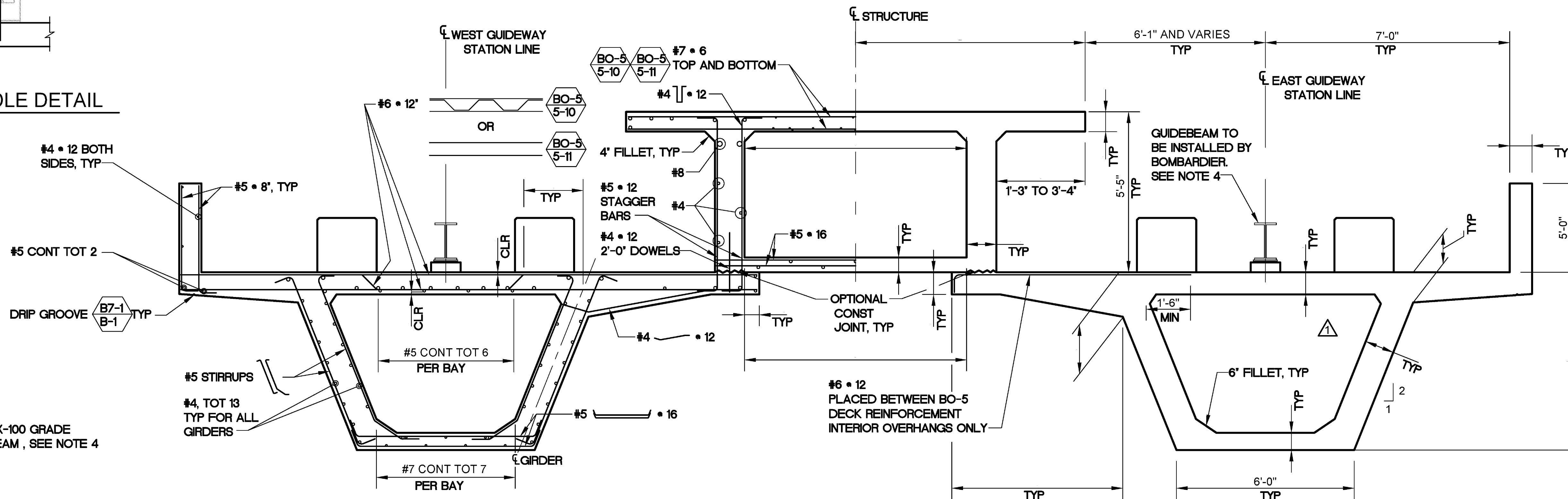
CAST-IN-PLACE SLAB WITH PLATFORM
TYPICAL SECTION BRIDGE 3

SCALE: 1"=2'-0"

DELETED HYDRONIC PIPES IN
BRIDGES 2 AND 3 TYPICAL SECTIONS

- NOTES:
1. LONGITUDINAL MILD REINFORCEMENT NOT SHOWN FOR BRIDGE 3, SEE "LONGITUDINAL MILD REINFORCEMENT" SHEET.
 - 2.
 3. DOWELS ARE SUPPLIED BY BOMBARDIER AND INSTALLED BY APM GUIDEWAY CONTRACTOR.

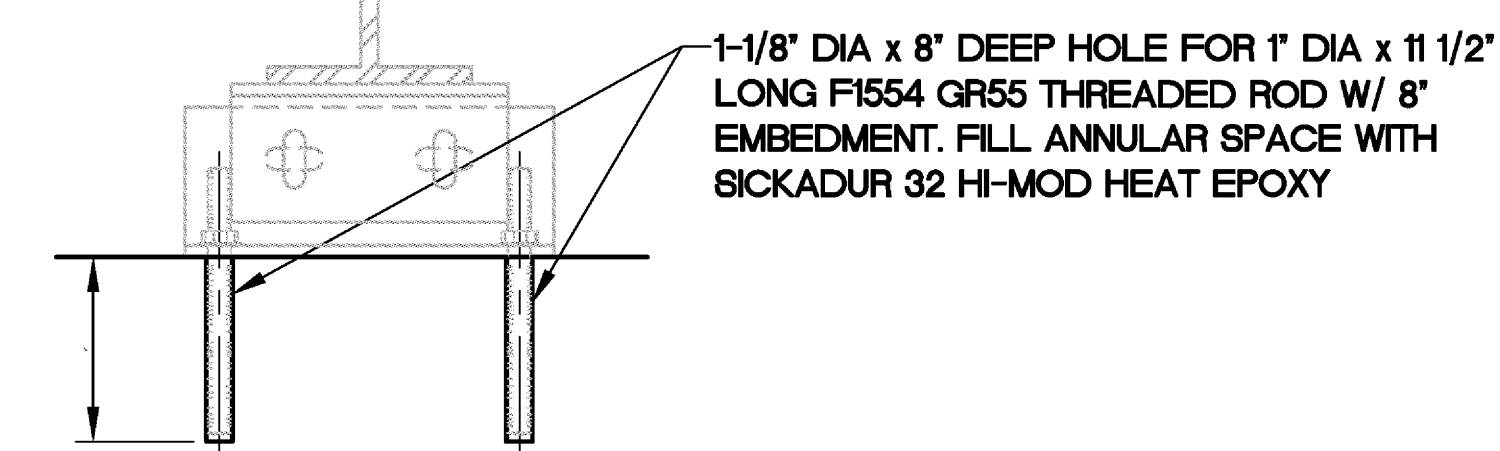
4. FOR LAYOUT AND DETAILS NOT SHOWN SEE BOMBARDIER PLANS.
5. HYDRONIC PIPES AND CRADLES LOCATIONS AND DETAILS SEE HYDRONIC PLANS.
6. FOR LAYOUT AND DETAILS NOT SHOWN SEE COMMUNICATION PLANS.
7. FOR HAND RAIL DETAILS AND LAYOUT, SEE ARCHITECTURAL PLANS. SPACING = 55'-0".
8. FOR BRIDGE 3 LONGITUDINAL FLEXURAL REINFORCEMENT, SEE "GUIDEWAY LONGITUDINAL MILD REINFORCEMENT" SHEET CA10.016.
9. LIGHT POLE LOCATION AND DEFAULTS, SEE ARCHITECTURAL SHEETS.
10. GATES NOT SHOWN, SPACED AT 55'-0", SEE ARCHITECTURAL SHEETS.
11. ALL UTILITIES SHOWN IN BRIDGE 1 TYPICAL SECTION ARE TYPICAL FOR BRIDGES 2 AND 3



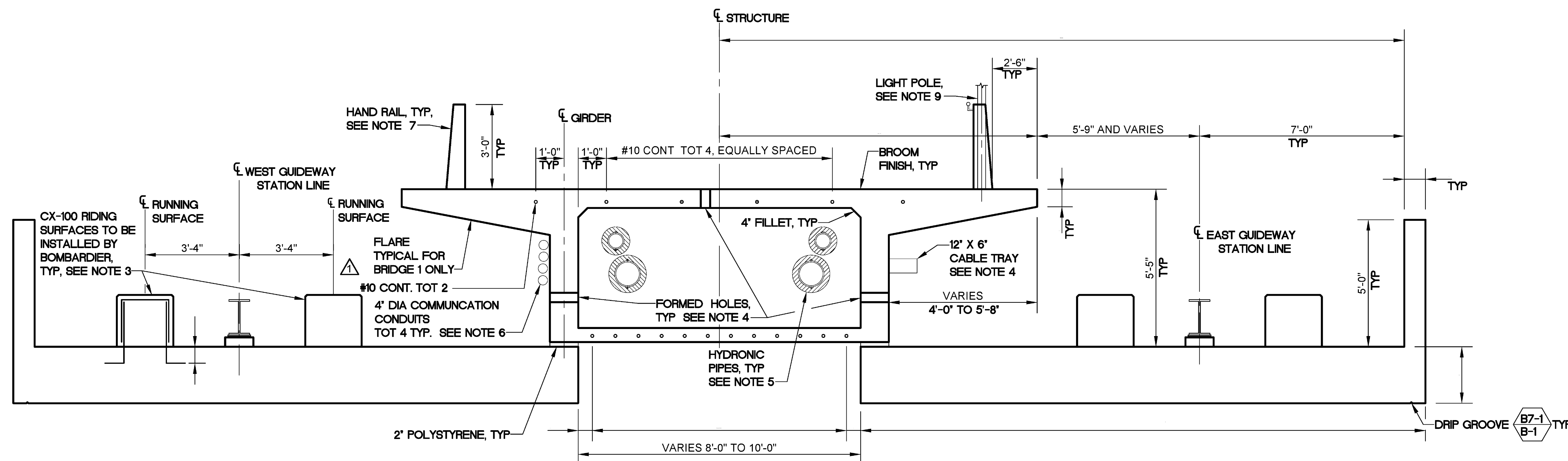
CAST-IN-PLACE BOX GIRDER WITH PLATFORM
TYPICAL SECTION BRIDGE 2

SCALE: 1"=2'-0"

BO-5 B7-1



GUIDEBEAM - DETAIL
NO SCALE



CAST-IN-PLACE SLAB WITH PLATFORM
TYPICAL SECTION BRIDGE 1

SCALE: 1"=2'-0"

BO-5 B7-1



FENTRESS | ARCHITECTS

ISSUES
000 12.22.08 95% REVIEW
001 03.09.09 IFC DCN AS026
REVISIONS
001 12.04.09 DCN AS067

TERMINAL MODERNIZATION PROGRAM
AIRSIDE CONCOURSE B PROJECT

Central
Terminal B
Sacramento International Airport

02/02/12
RECORD DRAWINGS

APM ELEVATED
GUIDEWAY

TYPICAL SECTION APM
JOB: 05003.0000
DATE: 03.09.09
SHEET:
CA10.012
REVISION NO: AS-001

○	ISSUES
000	12.22.08 95% REVIEW
001	03.09.09 IFC DCN AS026
△	REVISIONS
001	12.04.09 DCN AS067

TERMINAL MODERNIZATION PROGRAM
AIRSIDE CONCOURSE B PROJECT



Central
Terminal B
Sacramento International Airport

02/02/12
RECORD DRAWINGS

APM ELEVATED
GUIDEWAY

TYPICAL SECTION APM
JOB: 05003.0000
DATE: 03.09.09
SHEET:
CA10.012
REVISION NO: AS-001



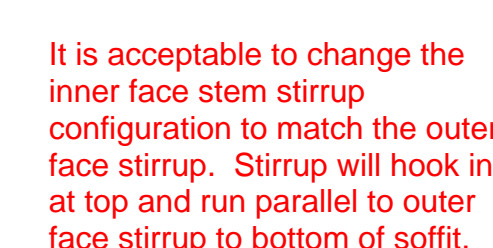
SCALE: 1"=2'-0"

DELETED HYDRONIC PIPES IN
BRIDGES 2 AND 3 TYPICAL SECTIONS

NO SCALE



SCALE: 1"=2'-0"



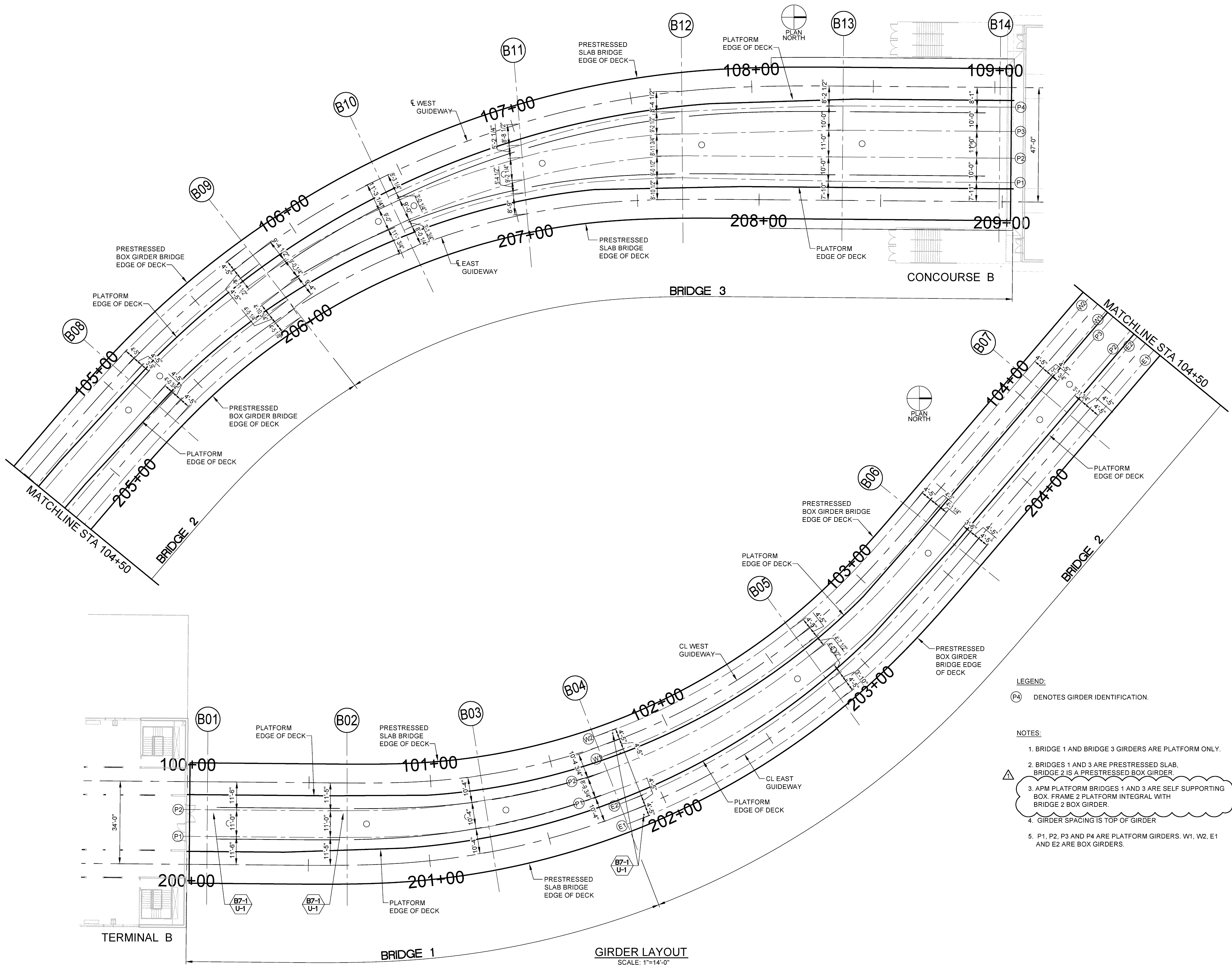
NO SCALE

Note: RFI AS6-143
Bridge 1 and bridge 3 contain
#5 @ 12" E.W. top and bottom



SCALE: 1"=2'-0"

G:\Sacramento\Organ Association\23111-SMF Terminal Modernization\16.0 Drawings\01 - APM\A - SMF APM PLANS\CA10.013 APM-G2-C.dwg Dec 03, 2009 09:10pm cad48864



- LEGEND:**
- (P4) DENOTES GIRDER IDENTIFICATION.
- NOTES:**
- 1. BRIDGE 1 AND BRIDGE 3 GIRDERS ARE PLATFORM ONLY.
 - 2. BRIDGES 1 AND 3 ARE PRESTRESSED SLAB. BRIDGE 2 IS A PRESTRESSED BOX GIRDER.
 - 3. APM PLATFORM BRIDGES 1 AND 3 ARE SELF SUPPORTING BOX. FRAME 2 PLATFORM INTEGRAL WITH BRIDGE 2 BOX GIRDER.
 - 4. GIRDER SPACING IS TOP OF GIRDER
 - 5. P1, P2, P3 AND P4 ARE PLATFORM GIRDERS. W1, W2, E1 AND E2 ARE BOX GIRDERS.



ISSUES
000 12.01.08 95% REVIEW
001 03.09.09 IFC DCN AS026
REVISIONS
001 12.04.09 DCN AS067

TERMINAL MODERNIZATION PROGRAM
AIRSIDE CONCOURSE B PROJECT



02/02/12
RECORD DRAWINGS

APM ELEVATED
GUIDEWAY
GIRDER LAYOUT - APM
AND PLATFORM
JOB: 05003.0000
DATE: 03.09.09
SHEET:
CA10.013
REVISION NO: AS-001

02/02/12
RECORD DRAWINGS

CA10.014

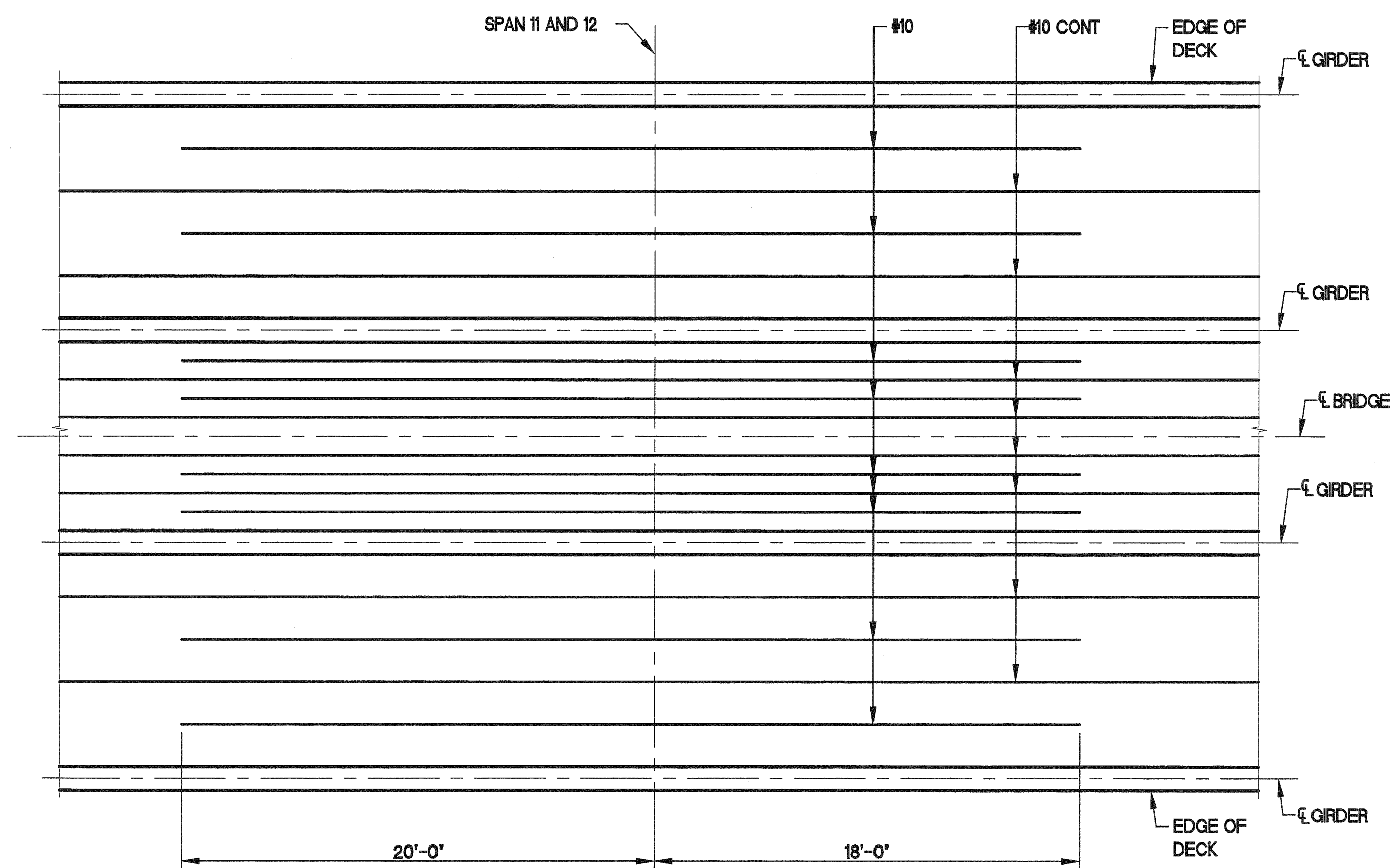
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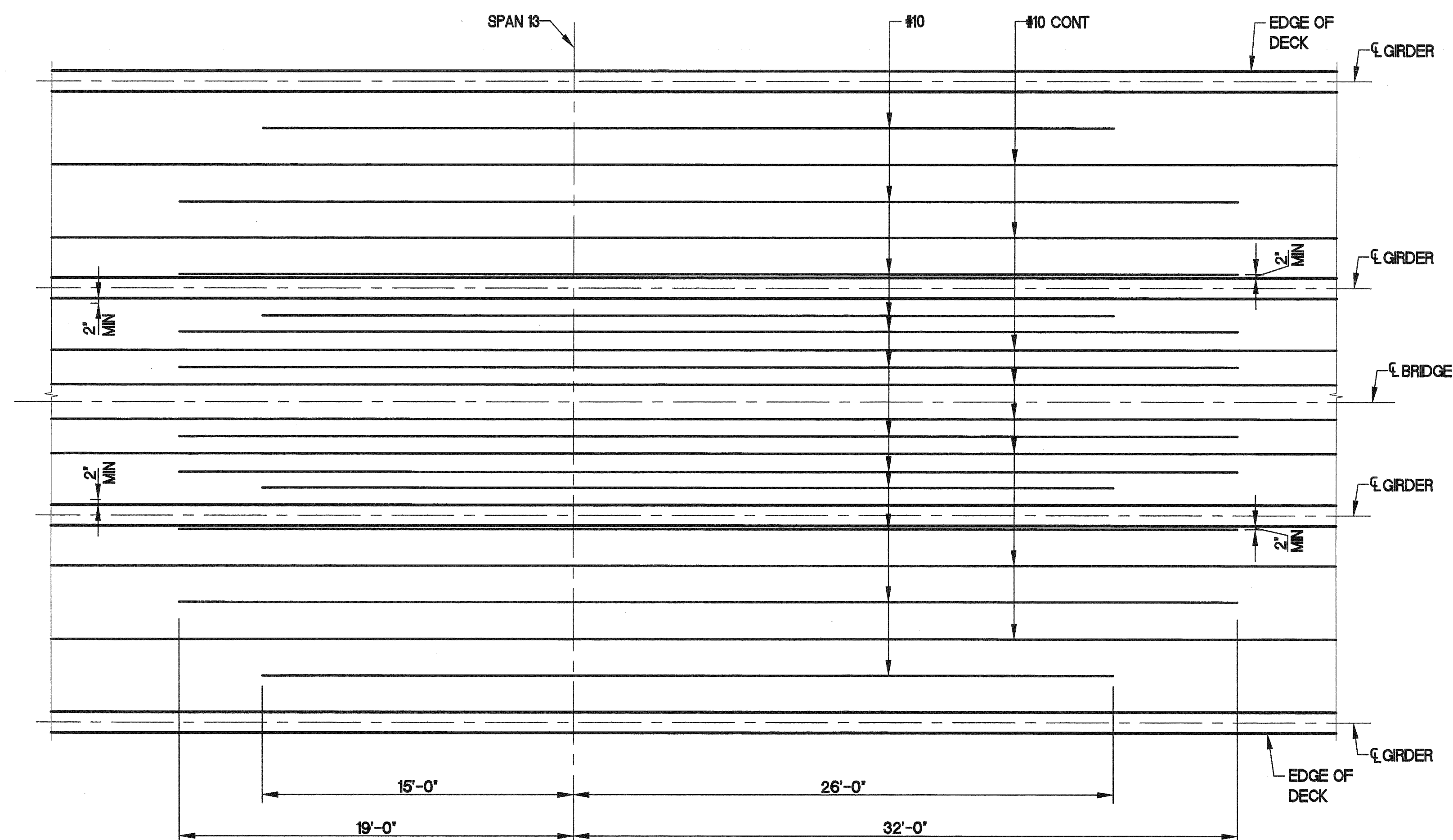
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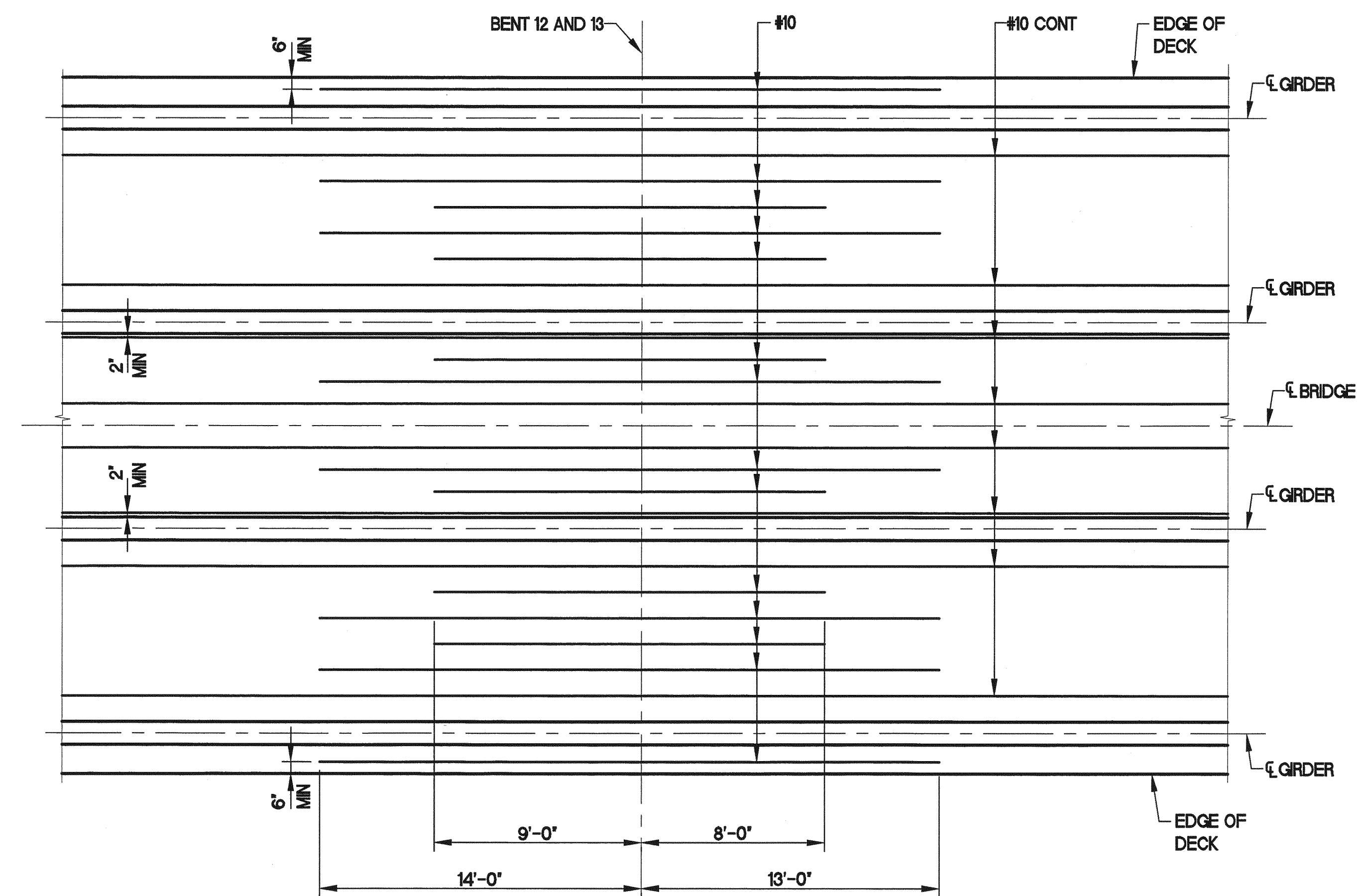
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PLATFORM MILD BOTTOM REINFORCEMENT
TYPICAL SPANS 11 AND 12
NO SCALE



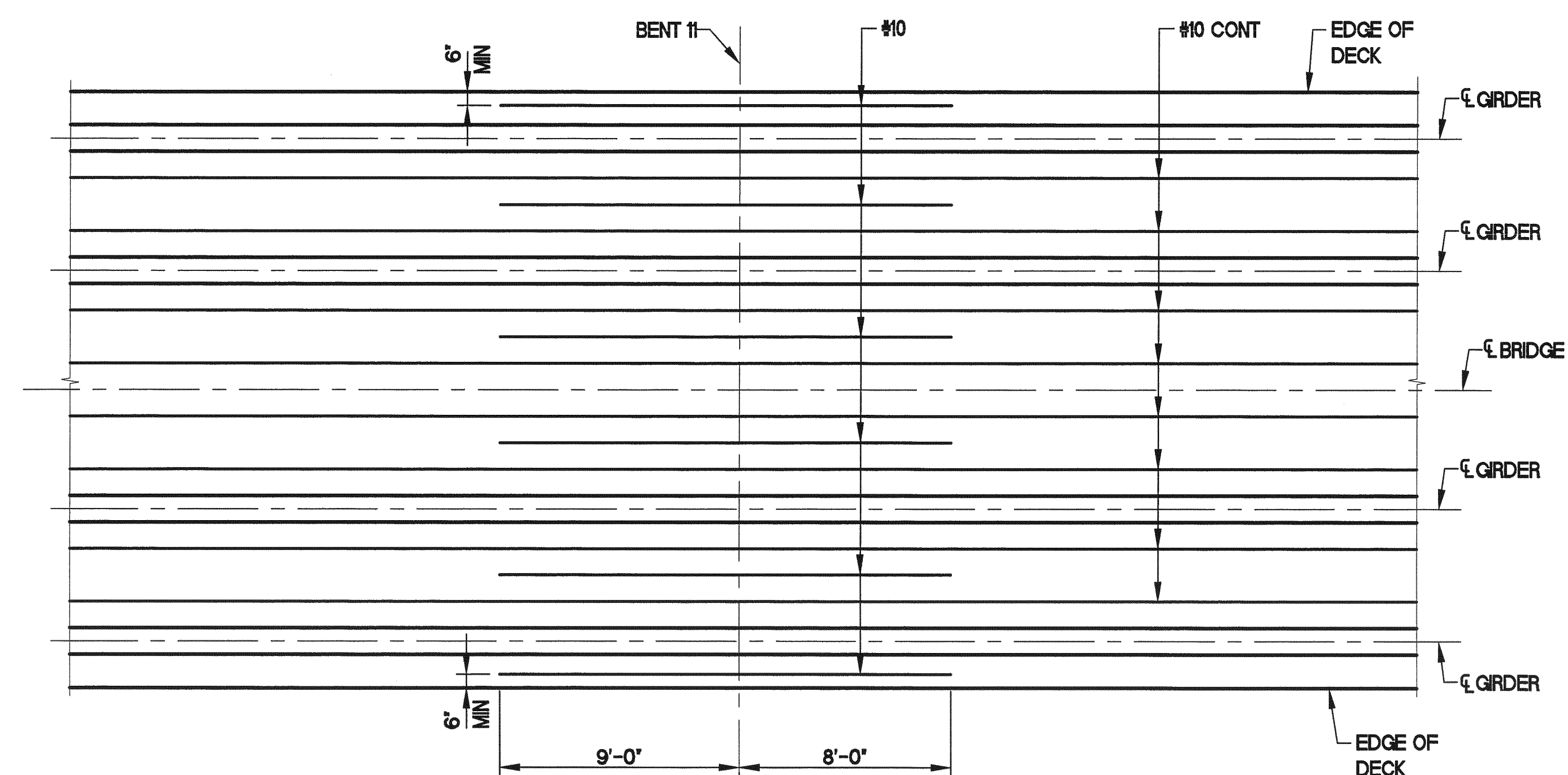
PLATFORM MILD BOTTOM REINFORCEMENT
TYPICAL SPAN 13
NO SCALE



PLATFORM MILD TOP REINFORCEMENT
TYPICAL BENTS 12 AND 13
NO SCALE

NOTES:

1. BARS TO BE SPACED 2' MINIMUM FROM FACE OF GIRDER AND 6' MINIMUM FROM EDGE OF DECK.
2. ALL REINFORCEMENT IS EQUALLY SPACED.



PLATFORM MILD TOP REINFORCEMENT
TYPICAL BENT 11
NO SCALE



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ISSUES
000 12.22.08 95% REVIEW
001 03.09.09 IFC DCN AS026

REVISIONS

TERMINAL MODERNIZATION PROGRAM
AIRSIDE CONCOURSE B PROJECT



02/02/12
RECORD DRAWINGS

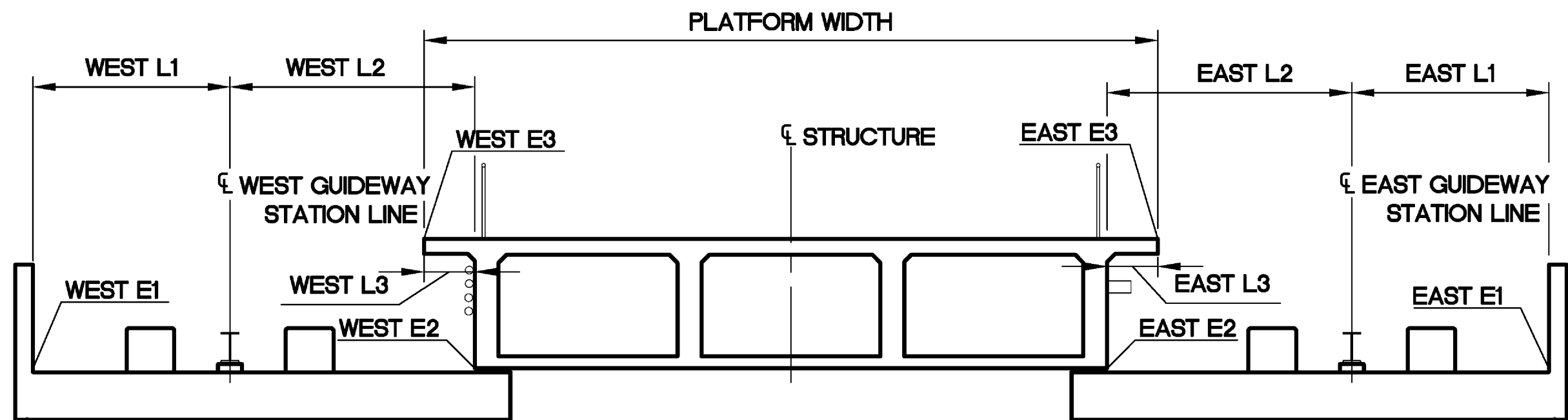
AFM ELEVATED
GUIDEWAY
GUIDEWAY LONGITUDINAL
MILD REINFORCEMENT

JOB: 05003.0000
DATE: 03.09.09

SHEET:

CA10.016

REVISION NO: AS-000



CAST-IN-PLACE SLAB WITH PLATFORM
TYPICAL SECTION BRIDGE 1 AND 3
SCALE: 1"=5'-0"

BRIDGE 1

East Alignment (STA)	Longitudinal Slope (%)	East Alignment Profile Elev (FT)	East L1 (FT)	East L2 (FT)	East L3 (FT)	East E1 (FT)	East E2 (FT)	East E3 (FT)	Riding Surface Super Elevation (%)	Guideline to Guideline Length (FT)	Corresponding West Alignment (STA)	Longitudinal Slope (%)	West Alignment Profile Elev (FT)	West L1 (FT)	West L2 (FT)	West L3 (FT)	West E1 (FT)	West E2 (FT)	West E3 (FT)	Riding Surface Super Elevation (%)	Platform Width (FT)	Platform Slope (%)
200+01	0.00	72.00	7.00	11.00	5.67	66.51	66.69	72.00	0.00	34.00	100+01.00	0.00	72.00	7.00	11.00	5.67	66.51	66.69	72.00	0.00	23.34	0.00
200+10	0.00	72.00	7.00	11.00	5.67	66.51	66.69	71.89	0.00	34.00	100+10.00	0.00	72.00	7.00	11.00	5.67	66.51	66.69	71.89	0.00	23.34	0.00
200+20	0.00	72.00	7.00	11.00	5.67	66.51	66.69	72.00	0.00	34.00	100+20.00	0.00	72.00	7.00	11.00	5.67	66.51	66.69	72.00	0.00	23.34	0.00
200+30	0.00	72.00	7.00	11.00	5.67	66.51	66.69	72.00	0.00	34.00	100+30.00	0.00	72.00	7.00	11.00	5.67	66.51	66.69	72.00	0.00	23.34	0.00
200+40	0.00	72.00	7.00	11.00	5.67	66.51	66.69	72.00	0.00	34.00	100+40.00	0.00	72.00	7.00	11.00	5.67	66.51	66.69	72.00	0.00	23.34	0.00
200+50	0.00	72.00	7.00	11.00	5.51	66.51	66.69	71.94	-1.20	34.00	100+49.89	0.00	72.00	7.00	11.00	5.67	66.51	66.69	72.00	0.00	23.18	-0.24
200+60	0.00	72.00	7.00	10.94	5.30	66.51	66.69	71.89	-2.40	33.92	100+59.49	0.00	72.00	7.00	10.98	5.64	66.51	66.69	72.01	-0.17	22.94	-0.52
200+70	Vertical Curve	72.00	7.00	10.89	5.10	66.51	66.69	71.83	-3.60	33.75	100+68.92	Vertical Curve	71.99	7.00	10.86	5.42	66.51	66.69	72.07	-1.59	22.52	-1.06
200+80	Vertical Curve	71.97	7.00	10.67	4.72	66.48	66.66	71.75	-4.80	33.48	100+78.17	Vertical Curve	71.96	7.00	10.81	5.27	66.48	66.65	72.10	-2.98	21.99	-1.62
200+90	Vertical Curve	71.92	7.00	10.48	4.38	66.43	66.60	71.68	-6.00	33.13	100+88.03	Vertical Curve	71.90	7.00	10.65	5.01	66.41	66.59	72.06	-4.46	21.39	-1.78
201+00	Vertical Curve	71.84	7.00	10.30	4.20	66.35	66.53	71.64	-6.00	32.75	100+96.73	Vertical Curve	71.82	7.00	10.45	4.72	66.34	66.51	72.01	-5.76	20.92	-1.77
201+10	Vertical Curve	71.74	7.00	10.11	4.01	66.25	66.42	71.55	-6.00	32.32	101+05.40	Vertical Curve	71.72	7.00	10.20	4.45	66.23	66.41	71.91	-6.00	20.46	-1.76
201+20	Vertical Curve	71.61	7.00	9.93	3.82	66.12	66.29	71.42	-6.00	31.91	101+14.20	Vertical Curve	71.60	7.00	9.98	4.22	66.11	66.28	71.78	-6.00	20.05	-1.80
201+30	Vertical Curve	71.45	7.00	9.75	3.64	65.97	66.13	71.27	-6.00	31.51	101+23.08	Vertical Curve	71.44	7.00	9.76	4.01	65.96	66.13	71.62	-6.00	19.65	-1.78
201+40	Vertical Curve	71.27	7.00	9.77	3.67	65.79	65.96	71.10	-6.00	31.10	101+32.17	Vertical Curve	71.26	7.00	9.77	4.02	65.78	65.95	71.44	-6.00	19.25	-1.77
201+50	Vertical Curve	71.07	7.00	9.80	3.70	65.58	65.75	70.90	-6.00	30.72	101+41.19	Vertical Curve	71.06	7.00	9.79	4.04	65.58	65.74	71.24	-6.00	18.86	-1.80
201+60	Vertical Curve	70.84	7.00	9.82	3.72	65.35	65.52	70.67	-6.00	30.35	101+50.24	Vertical Curve	70.83	7.00	9.83	4.07	65.35	65.52	71.00	-6.00	18.49	-1.78
201+70	Vertical Curve	70.58	7.00	9.85	3.74	65.10	65.27	70.42	-6.00	29.98	101+59.26	Vertical Curve	70.58	7.00	9.87	4.11	65.10	65.26	70.74	-6.00	18.12	-1.77
201+80	Vertical Curve	70.30	7.00	9.79	3.68	64.82	64.98	70.15	-6.00	29.62	101+68.34	Vertical Curve	70.30	7.00	9.83	4.08	64.82	64.98	70.46	-6.00	17.76	-1.75

BRIDGE 3

East Alignment (STA)	Longitudinal Slope (%)	East Alignment Profile Elev (FT)	East L1 (FT)	East L2 (FT)	East L3 (FT)	East E1 (FT)	East E2 (FT)	East E3 (FT)	Riding Surface Super Elevation (%)	Guideline to Guideline Length (FT)	Corresponding West Alignment (STA)	Longitudinal Slope (%)	West Alignment Profile Elev (FT)	West L1 (FT)	West L2 (FT)	West L3 (FT)	West E1 (FT)	West E2 (FT)	West E3 (FT)	Riding Surface Super Elevation (%)	Platform Width (FT)	Platform Slope (%)
206+00	-5.00	50.60	7.00	8.80	3.06	45.12	45.27	50.75	6.00	27.72	105+82.26	-4.64	50.56	7.00	8.92	2.82	45.07	45.24	50.47	6.00	15.89	1.76
206+10	-5.00	50.10	7.00	9.08	3.34	44.62	44.78	50.24	6.00	28.27	105+93.46	-4.64	50.04	7.00	9.18	3.09	44.56	44.72	49.95	6.00	16.43	1.77
206+20	-5.00	49.60	7.00	9.37	3.63	44.12	44.28	49.74	6.00	28.88	106+04.55	-4.64	49.53	7.00	9.51	3.41	44.04	44.21	49.44	6.00	17.05	1.76
206+30	-5.00	49.10	7.00	9.69	3.95	43.62	43.78	49.24	6.00	29.56	106+15.68	-4.64	49.01	7.00	9.87	3.77	43.53	43.70	48.92	6.00	17.73	1.80
206+40	-5.00	48.60	7.00	10.05	4.31	43.12	43.29	48.74	6.00	30.31	106+26.73	-4.64	48.50	7.00	10.25	4.15	43.01	43.19	48.41	6.00	18.47	1.79
206+50	-5.00	48.10	7.00	10.44	4.70	42.62	42.79	48.23	6.00	31.09	106+37.96	-4.64	47.98	7.00	10.64	4.54	42.49	42.67	47.89	6.00	19.25	1.77
206+60	-5.00	47.60	7.00	7.74	2.00	42.12	42.26	47.74	6.00	31.96	106+48.95	-4.64	47.47	7.00	7.79	1.69	41.98	42.13	47.38	6.00	20.11	1.79
206+70	-5.00	47.10	7.00	8.08	2.34	41.62	41.77	47.24	6.00	32.88	106+59.97	-4.64	46.96	7.00	7.82	1.72	41.47	41.62	46.87	6.00	21.03	1.76
206+80	-5.00	46.60	7.00	8.27	2.53	41.12	41.27	46.74	6.00	33.86	106+71.16	-4.64	46.44	7.00	7.87	1.76	40.95	41.10	46.35	6.00	22.02	1.77
206+90	-5.00	46.10	7.00	8.32	2.58	40.62	40.77	46.23	6.00	34.91	106+82.78	-4.64	45.90	7.00	7.94	1.83	40.41	40.56	45.82	6.00	23.06	1.78
207+00	Vertical Curve	45.60	7.00	8.23	2.49	40.12	40.27	45.71	6.00	36.01	106+93.95	Vertical Curve	45.39	7.00	8.02	1.91	39.91	40.06	45.28	6.00	24.15	1.78
207+10	Vertical Curve	45.12	7.00	8.67	2.93	39.63	39.79	45.23	6.00	37.18	107+05.54	Vertical Curve	44.89	7.00	8.19	2.07	39.40	39.56	44.79	6.00	25.32	1.74
207+20	Vertical Curve	44.67	7.00	8.48	2.74	39.18	39.34	44.78	6.00	38.40	107+17.09	Vertical Curve	44.43	7.00	7.75	1.63	38.94	39.09	44.31	6.00	26.54	1.77
207+30	Vertical Curve	44.25	7.00	8.37	2.63	38.76	38.91	44.37	6.00	39.69	107+28.57	Vertical Curve	44.00	7.00	7.48	1.35	38.51	38.65	43.87	6.00	27.82	1.80
207+40	Vertical Curve	43.85	7.00	8.29	2.60	38.37	38.52	43.98	5.27	40.97	107+39.68	Vertical Curve	43.61	7.00	7.35	1.23	38.13	38.27	43.46	6.00	29.16	1.78
207+50	Vertical Curve	43.49	7.00	8.26	2.64	38.00	38.16	43.61	4.27	42.29	107+50.83	Vertical Curve	43.26	7.00	7.39	1.26	37.77	37.92	43.06	6.00	30.53	1.80
207+60	Vertical Curve	43.16	7.00	8.32	2.77	37.67	37.83	43.27	3.27	43.48	107+62.08	Vertical Curve	42.94	7.00	7.57	1.45	37.45	37.60	42.70	6.00	31.81	1.79
207+70	Vertical Curve	42.86	7.00	8.44	2.95	37.37	37.53	42.96	2.27	44.57	107+72.78	Vertical Curve	42.66	7.00	8.18	2.07	37.17	37.33	42.38	6.00	32.97	1.77
207+80	Vertical Curve	42.59	7.00	8.19	2.77	37.10	37.25	42.65	1.27	45.45	107+83.29	Vertical Curve	42.42	7.00	8.47	2.40	36.93	37.08	42.14	5.90	33.96	1.49
207+90	Vertical Curve	42.35	7.00	8.01	2.66	36.86	37.01	42.36	0.27	46.11	107+94.46	Vertical Curve	42.19	7.00	8.49	2.56	36.70	36.86	41.97	4.79	34.84	1.13
208+00	Vertical Curve	42.13	7.00	7.84	2.51	36.65	36.80	42.13	0.00	46.55	108+03.54	Vertical Curve	42.03	7.00	8.37	2.55	36.54	36.69	41.85	3.88	35.40	0.81
208+10	Vertical Curve	41.95	7.00	7.68	2.35	36.47	36.61	41.95	0.00	46.82	108+13.46	Vertical Curve	41.88	7.00	8.16	2.47	36.39	36.54	41.74	2.89	35.79	0.60
208+20	Vertical Curve	41.80	7.00	7.52	2.19	36.32	36.46	41.80	0.00	46.95	108+23.43	Vertical Curve	41.75	7.00	7.92	2.35	36.26	36.41	41.66	1.89	36.05	0.40
208+30	Vertical Curve	41.69	7.00	7.36	2.03	36.20	36.34	41.69	0.00	47.00	108+33.42	Vertical Curve	41.65	7.00	7.68	2.24	36.16	36.31	41.61	0.89	36.23	0.22
208+40	Vertical Curve	41.60	7.00	7.35	2.02	36.11	36.25	41.60	0.00	47.00	108+43.41	Vertical Curve	41.57	7.00	7.65	2.32	36.08	36.23	41.57	0.00	36.34	0.07
208+50	Vertical Curve	41.54	7.00	7.37	2.04	36.05	36.19	41.54	0.00	47.00	108+53.41	Vertical Curve	41.52	7.00	7.63	2.30	36.03	36.18	41.52	0.00	36.34	0.04
208+60	Vertical Curve	41.50	7.00	7.38	2.05	36.01	36.16	41.50	0.00	47.00	108+63.41	Vertical Curve	41.50	7.00	7.62	2.29	36.01	36.16	41.50	0.00	36.34	0.01
208+70	0.00	41.50	7.00	7.39	2.06	36.01	36.16	41.50	0.00	47.00	108+73.41	0.00	41.50	7.00	7.61	2.28	36.01	36.16	41.50	0.00	36.34	0.01
208+80	0.00	41.50	7.00	7.40	2.07	36.01	36.16	41.50	0.00	47.00	108+83.41	0.00	41.50	7.00	7.60	2.27	36.01	36.16	41.50	0.00	36.34	0.01
208+90	0.00	41.50	7.00	7.41	2.08	36.01	36.16	41.39	0.00	47.00	108+93.41	0.00	41.50	7.00	7.59	2.26	36.01	36.16	41.39	0.00	36.34	0.01
209+00	0.00	41.50	7.00	7.42	2.09	36.01	36.16	41.50	0.00	47.00	109+03.41	0.00	41.50	7.00	7.58	2.25	36.01	36.16	41.50	0.00	36.34	0.01

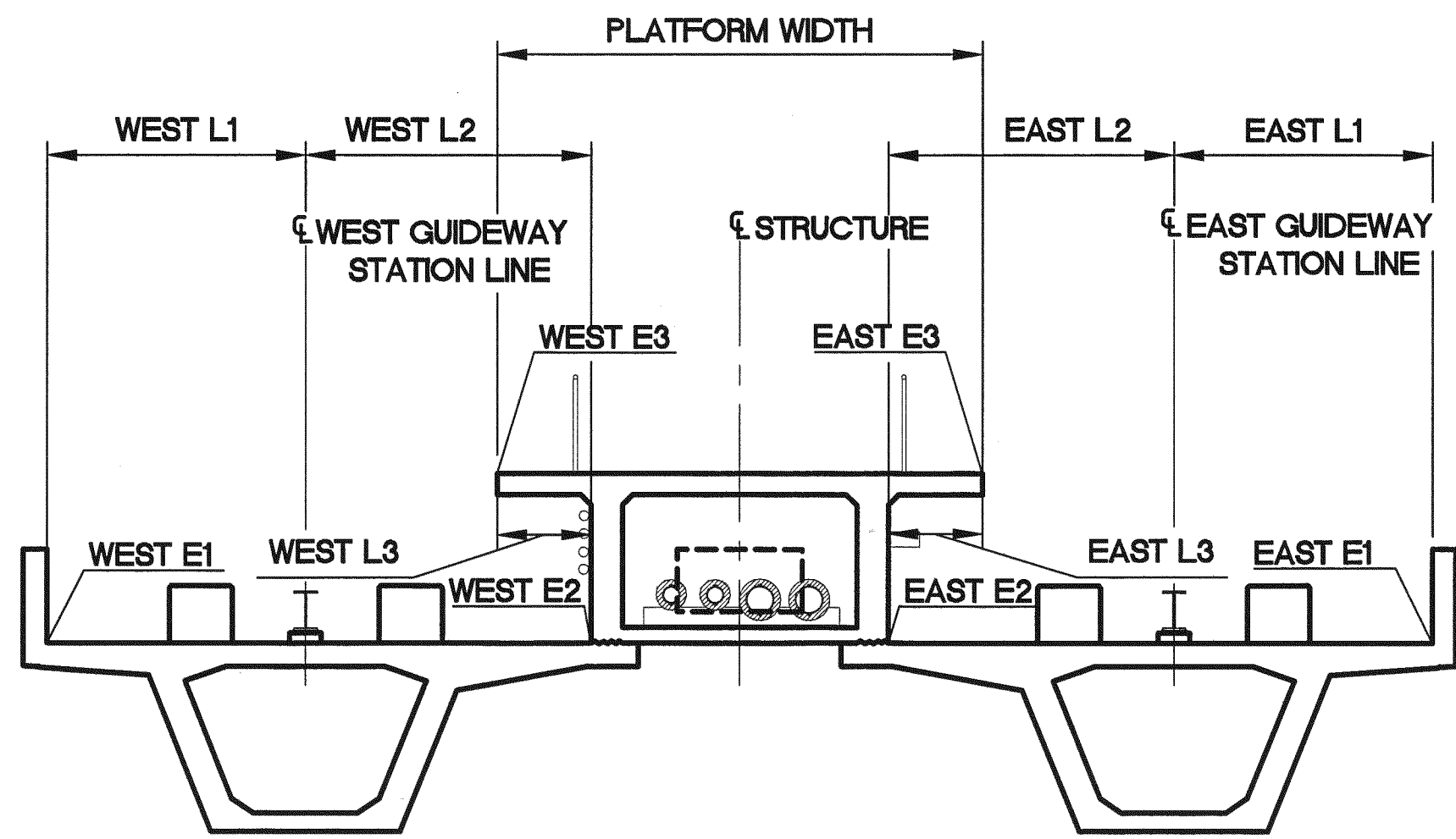


FENTRESS | ARCHITECTS

ISSUES
000 12.01.08 95% REVIEW
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REVISIONS
001 12.04.09 DCN AS067

TERMINAL MOD

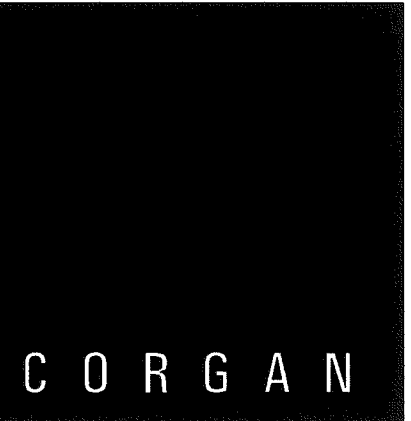
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CAST-IN-PLACE BOX GIRDER WITH PLATFORM
TYPICAL SECTION BRIDGE 2

SCALE: 1"=5'-0"
STA W W 101+70.42 TO W 105+80.13

East Alignment (STA)	Longitudinal Slope (%)	East Alignment Profile Elev (FT)	East L1 (FT)	East L2 (FT)	East L3 (FT)	East E1 (FT)	East E2 (FT)	East E3 (FT)	Riding Surface Super Elevation (%)	Guideline to Guideline Length (FT)	Corresponding West Alignment (STA)	Longitudinal Slope (%)	West Alignment Profile Elev (FT)	West L1 (FT)	West L2 (FT)	West L3 (FT)	West E1 (FT)	West E2 (FT)	West E3 (FT)	Rid.. Surface Super Elevation (%)	Platt... Width (FT)	(%)
201+90	Vertical Curve	70.00	7.00	9.59	3.49	64.51	64.68	69.84	-6.00	29.27	101+77.35	Vertical Curve	69.68	7.00	9.67	3.92	64.52	64.68	70.15	-6.00	17.41	-1.78
202+00	Vertical Curve	69.67	7.00	9.40	3.29	64.18	64.34	69.52	-6.00	28.92	101+86.33	Vertical Curve	69.32	7.00	9.52	3.76	64.19	64.36	69.82	-6.00	17.06	-1.76
202+10	Vertical Curve	69.31	7.00	9.24	3.14	63.82	63.98	69.17	-6.00	28.59	101+95.47	Vertical Curve	68.93	7.00	9.34	3.59	63.84	64.00	69.47	-6.00	16.73	-1.79
202+20	Vertical Curve	68.93	7.00	9.10	2.99	63.44	63.60	68.78	-6.00	28.26	102+04.80	Vertical Curve	68.55	7.00	9.16	3.41	63.45	63.61	69.07	-6.00	16.41	-1.77
202+30	Vertical Curve	68.52	7.00	8.95	2.84	63.03	63.19	68.39	-6.00	27.97	102+13.52	Vertical Curve	68.12	7.00	9.01	3.26	63.06	63.22	68.67	-6.00	16.10	-1.74
202+40	Vertical Curve	68.09	7.00	8.78	2.68	62.60	62.76	67.96	-6.00	27.66	102+22.63	Vertical Curve	67.66	7.00	8.87	3.12	62.63	62.79	68.24	-6.00	15.80	-1.77
202+50	-4.57	67.63	7.00	8.60	2.50	62.14	62.30	67.51	-6.00	27.37	102+31.84	-5.00	67.21	7.00	8.76	3.01	62.17	62.33	67.78	-6.00	15.51	-1.74
202+60	-4.57	67.17	7.00	8.42	2.32	61.69	61.84	67.05	-6.00	27.09	102+40.92	-5.00	66.75	7.00	8.67	2.91	61.72	61.88	67.32	-6.00	15.23	-1.77
202+70	-4.57	66.72	7.00	8.22	2.12	61.23	61.38	66.60	-6.00	26.82	102+50.07	-5.00	66.29	7.00	8.60	2.84	61.26	61.42	66.87	-6.00	14.97	-1.80
202+80	-4.57	66.26	7.00	8.02	1.92	60.77	60.92	66.14	-6.00	26.57	102+59.32	-5.00	65.83	7.00	8.55	2.80	60.80	60.95	66.40	-6.00	14.72	-1.77
202+90	-4.57	65.80	7.00	7.81	1.70	60.32	60.46	65.69	-6.00	26.34	102+68.45	-5.00	65.37	7.00	8.53	2.77	60.34	60.50	65.95	-6.00	14.48	-1.80
203+00	-4.57	65.35	7.00	7.58	1.48	59.86	60.01	65.23	-6.00	26.10	102+77.60	-5.00	64.91	7.00	8.53	2.77	59.88	60.04	65.48	-6.00	14.25	-1.75
203+10	-4.57	64.89	7.00	7.35	1.25	59.40	59.55	64.77	-6.00	25.90	102+86.82	-5.00	64.47	7.00	8.55	2.79	59.42	59.58	65.02	-6.00	14.04	-1.78
203+20	Vertical Curve	64.43	7.00	7.34	1.38	58.94	59.08	64.35	-4.92	25.70	102+95.63	-5.00	63.98	7.00	8.59	2.84	58.98	59.14	64.60	-6.00	13.99	-1.79
203+30	Vertical Curve	63.96	7.00	7.34	1.53	58.48	58.62	63.86	-3.72	25.57	103+05.42	-5.00	63.50	7.00	8.64	2.99	58.49	58.65	64.11	-4.53	14.10	-1.77
203+40	Vertical Curve	63.49	7.00	7.34	1.69	58.01	58.15	63.38	-2.52	25.49	103+15.06	-5.00	63.01	7.00	8.64	3.09	58.01	58.17	63.63	-3.09	14.29	-1.75
203+50	Vertical Curve	63.02	7.00	7.34	1.84	57.54	57.68	62.96	-1.32	25.46	103+24.77	-5.00	62.52	7.00	8.50	3.06	57.53	57.68	63.09	-1.63	14.52	-0.87
203+60	Vertical Curve	62.55	7.00	7.39	2.04	57.06	57.20	62.54	-0.12	25.45	103+34.67	-5.00	62.02	7.00	7.95	2.60	57.03	57.18	62.52	-0.14	14.76	0.12
203+70	Vertical Curve	62.07	7.00	7.72	2.39	56.58	56.73	62.07	0.00	25.45	103+44.67	-5.00	61.52	7.00	7.76	2.43	56.53	56.68	62.02	0.00	14.79	0.33
203+80	Vertical Curve	61.58	7.00	7.73	2.40	56.10	56.24	61.58	0.00	25.45	103+54.67	-5.00	61.02	7.00	7.73	2.40	56.03	56.18	61.52	0.00	14.79	0.44
203+90	Vertical Curve	61.09	7.00	7.73	2.40	55.61	55.75	61.09	0.00	25.45	103+64.67	-5.00	60.52	7.00	7.73	2.40	55.53	55.68	61.02	0.00	14.79	0.51
204+00	Vertical Curve	60.60	7.00	7.73	2.40	55.11	55.26	60.60	0.00	25.45	103+74.67	-5.00	60.02	7.00	7.73	2.40	55.03	55.18	60.52	0.00	14.79	0.56
204+10	Vertical Curve	60.10	7.00	7.73	2.40	54.62	54.76	60.10	0.00	25.45	103+84.67	-5.00	59.52	7.00	7.73	2.40	54.53	54.68	60.02	0.00	14.79	0.58
204+20	-5.00	59.65	7.00	7.73	2.40	54.16	54.31	59.65	0.00	25.45	103+94.67	-5.00	59.02	7.00	7.58	2.25	53.53	53.68	59.02	0.00	14.79	0.90
204+30	-5.00	59.15	7.00	8.00	2.67	53.66	53.81	59.15	0.00	25.45	104+04.67	-5.00	58.51	7.00	7.57	2.24	53.03	53.17	58.51	0.00	14.79	0.92
204+40	-5.00	58.65	7.00	7.83	2.50	53.16	53.31	58.65	0.00	25.45	104+14.67	Vertical Curve	58.02	7.00	7.63	2.30	52.53	52.68	58.02	0.00	14.79	0.91
204+50	-5.00	58.15	7.00	7.66	2.33	52.66	52.81	58.15	0.00	25.45	104+24.67	Vertical Curve	57.52	7.00	7.67	2.34	52.04	52.18	57.52	0.00	14.79	0.87
204+60	-5.00	57.65	7.00	7.58	2.25	52.16	52.31	57.65	0.00	25.45	104+34.67	Vertical Curve	57.03	7.00	7.73	2.40	51.55	51.69	57.03	0.00	14.79	0.80
204+70	-5.00	57.15	7.00	7.63	2.30	51.66	51.81	57.15	0.00	25.45	104+44.67	Vertical Curve	56.55	7.00	7.78	2.45	51.06	51.21	56.55	0.00	14.79	0.71
204+80	-5.00	56.65	7.00	7.68	2.35	51.16	51.31	56.65	0.00	25.45	104+54.67	Vertical Curve	56.06	7.00	7.85	2.50	50.58	50.72	56.06	0.15	14.77	0.70
204+90	-5.00	56.15	7.00	7.72	2.38	50.66	50.81	56.16	0.15	25.45	104+64.67	Vertical Curve	55.58	7.00	7.91	2.43	50.09	50.24	55.52	1.16	14.57	1.25
205+00	-5.00	55.65	7.00	7.72	2.31	50.16	50.31	55.70	1.15	25.46	104+74.78	Vertical Curve	55.09	7.00	7.91	2.31	49.60	49.75	54.99	2.19	14.39	1.77
205+10	-5.00	55.15	7.00	7.72	2.24	49.66	49.81	55.24	2.15	25.48	104+85.07	Vertical Curve	54.59	7.00	7.82	2.08	49.11	49.26	54.50	3.24	14.23	1.76
205+20	-5.00	54.65	7.00	7.71	2.16	49.16	49.31	54.75	3.15	25.52	104+95.52	Vertical Curve	54.10	7.00	7.67	1.80	48.61	48.76	53.99	4.30	14.12	1.77
205+30	-5.00	54.15	7.00	7.93	2.32	48.66	48.81	54.24	4.15	25.60	105+06.11	Vertical Curve	53.60	7.00	7.58	1.58	48.11	48.26	53.50	5.36	14.04	1.78
205+40	-5.00	53.65	7.00	8.14	2.46	48.16	48.32	53.75	5.15	25.73	105+16.79	-4.64	53.09	7.00	7.63	1.55	47.61	47.75	53.00	6.00	14.08	1.78
205+50	-5.00	53.15	7.00	8.27	2.53	47.66	47.82	53.25	6.00	25.90	105+27.74	-4.64	52.59	7.00	7.78	1.69	47.10	47.25	52.49	6.00	14.31	1.75
205+60	-5.00	52.65	7.00	8.36	2.62	47.16	47.32	52.74	6.00	26.14	105+38.63	-4.64	52.08	7.00	8.00	1.91	46.59	46.74	51.99	6.00	14.61	1.78
205+70	-5.00	52.15	7.00	8.43	2.69	46.66	46.82	52.25	6.00	26.43	105+49.55	-4.64	51.58	7.00	8.31	2.22	46.09	46.25	51.48	6.00	14.97	1.80
205+80	-5.00	51.65	7.00	8.49	2.75	46.16	46.32	51.75	6.00	26.80	105+60.36	-4.64	51.07	7.00	8.67	2.58	45.58	45.74	50.98	6.00	15.40	1.75
205+90	-5.00	51.15	7.00	8.55	2.81	45.66	45.82	51.25	6.00	27.22	105+71.32	-4.64										



FENTRESS | ARCHITECTS

ISSUES
000 12.22.08 95% REVIEW
001 03.09.09 IFC DCN AS028

REVISIONS

TERMINAL MODERNIZATION PROGRAM
AIRSIDE CONCOURSE B PROJECT



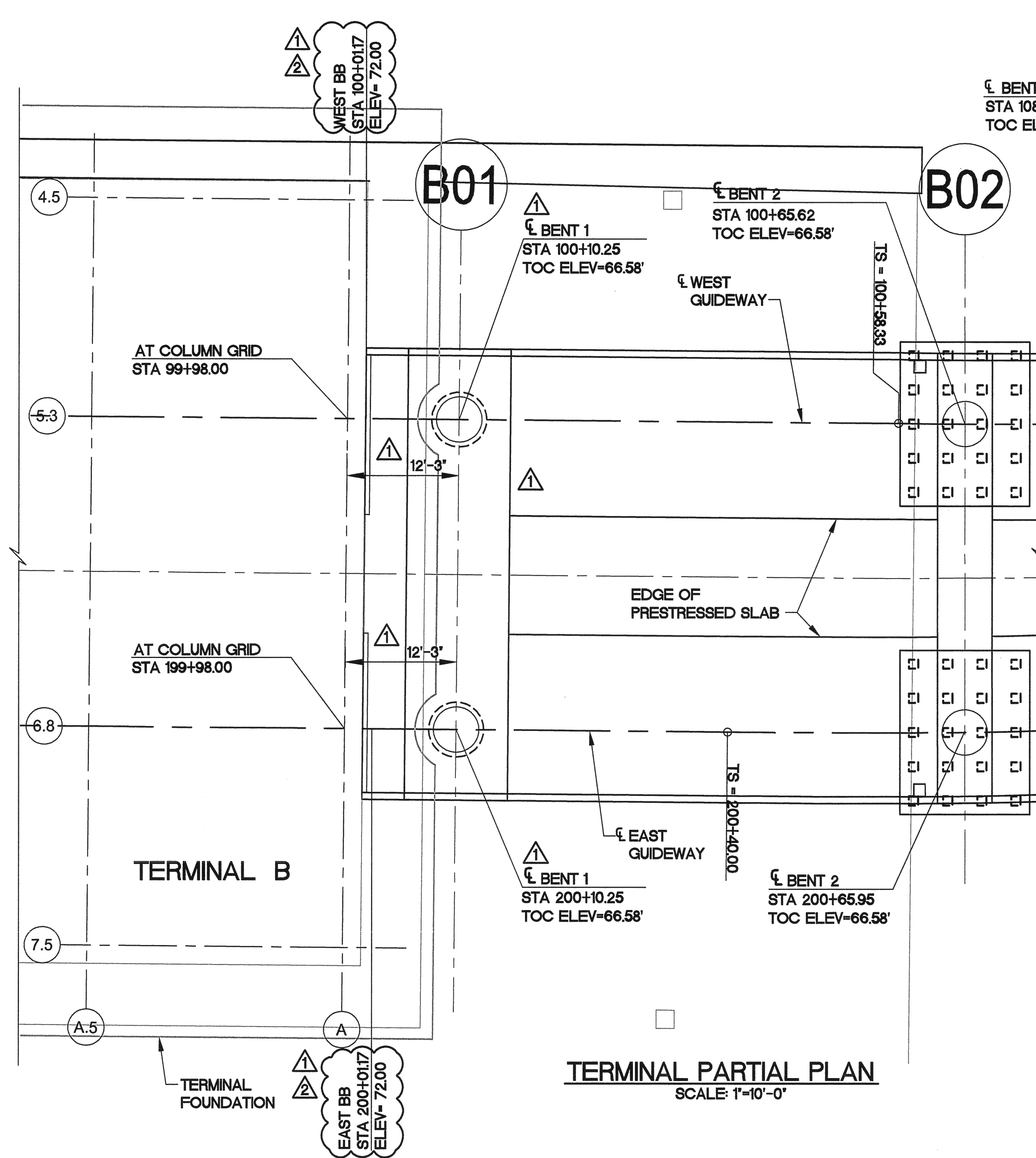
02/02/12
RECORD DRAWINGS

APM ELEVATED
GUIDEWAY
GRID GRADES
BRIDGE 2

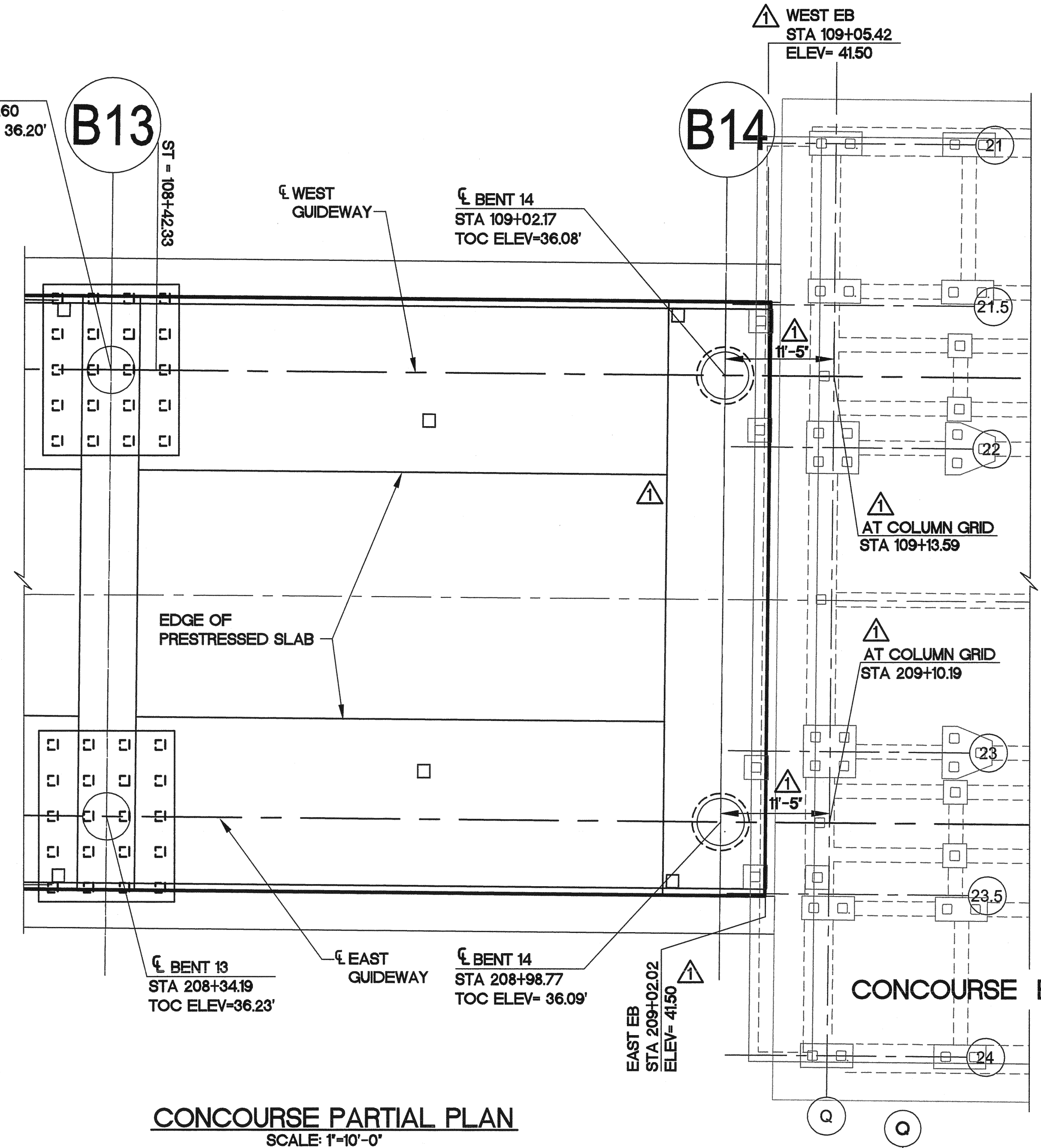
JOB: 05003.0000
DATE: 03.09.09
SHEET:

CA10.018
REVISION NO: AS-000

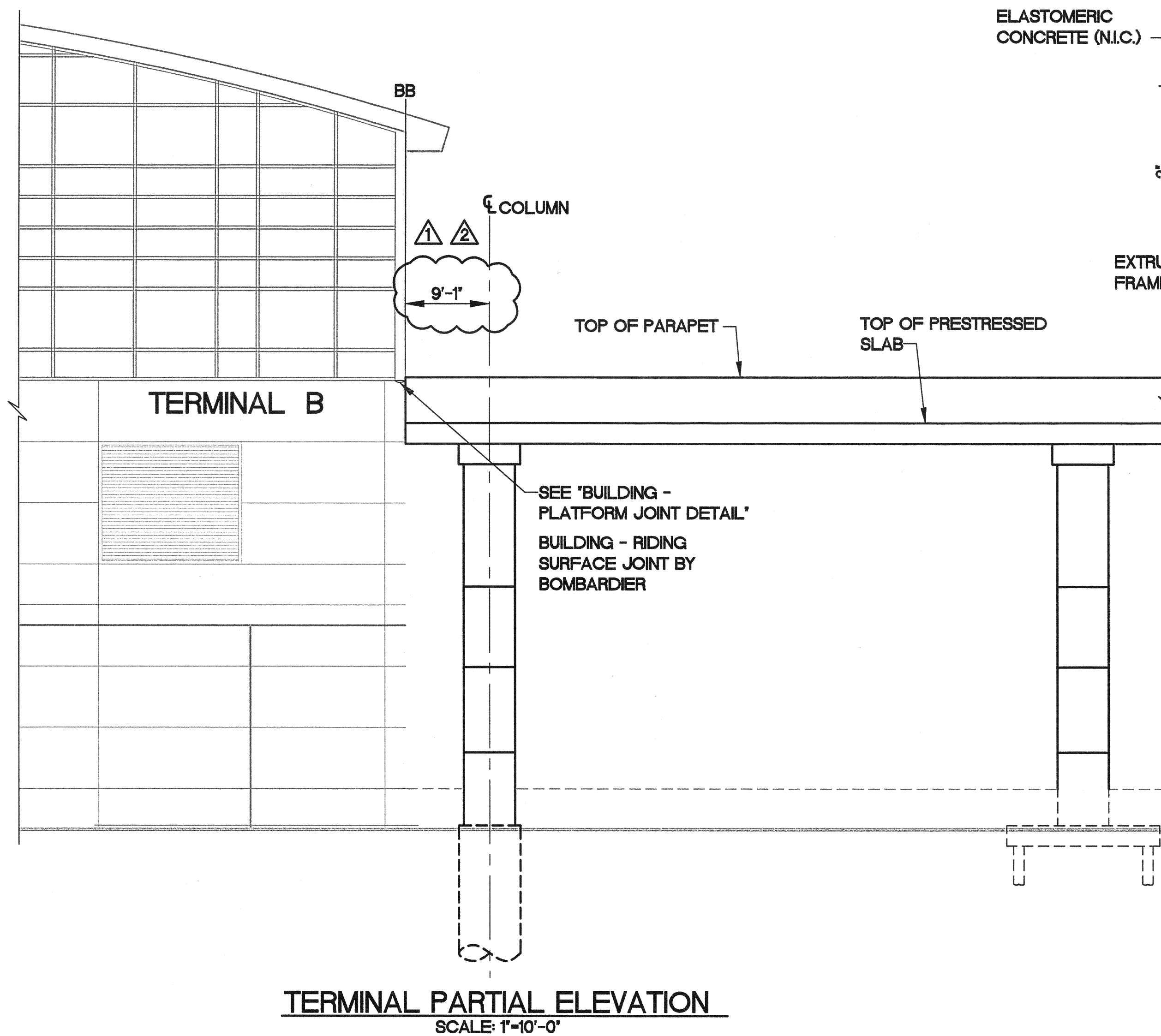
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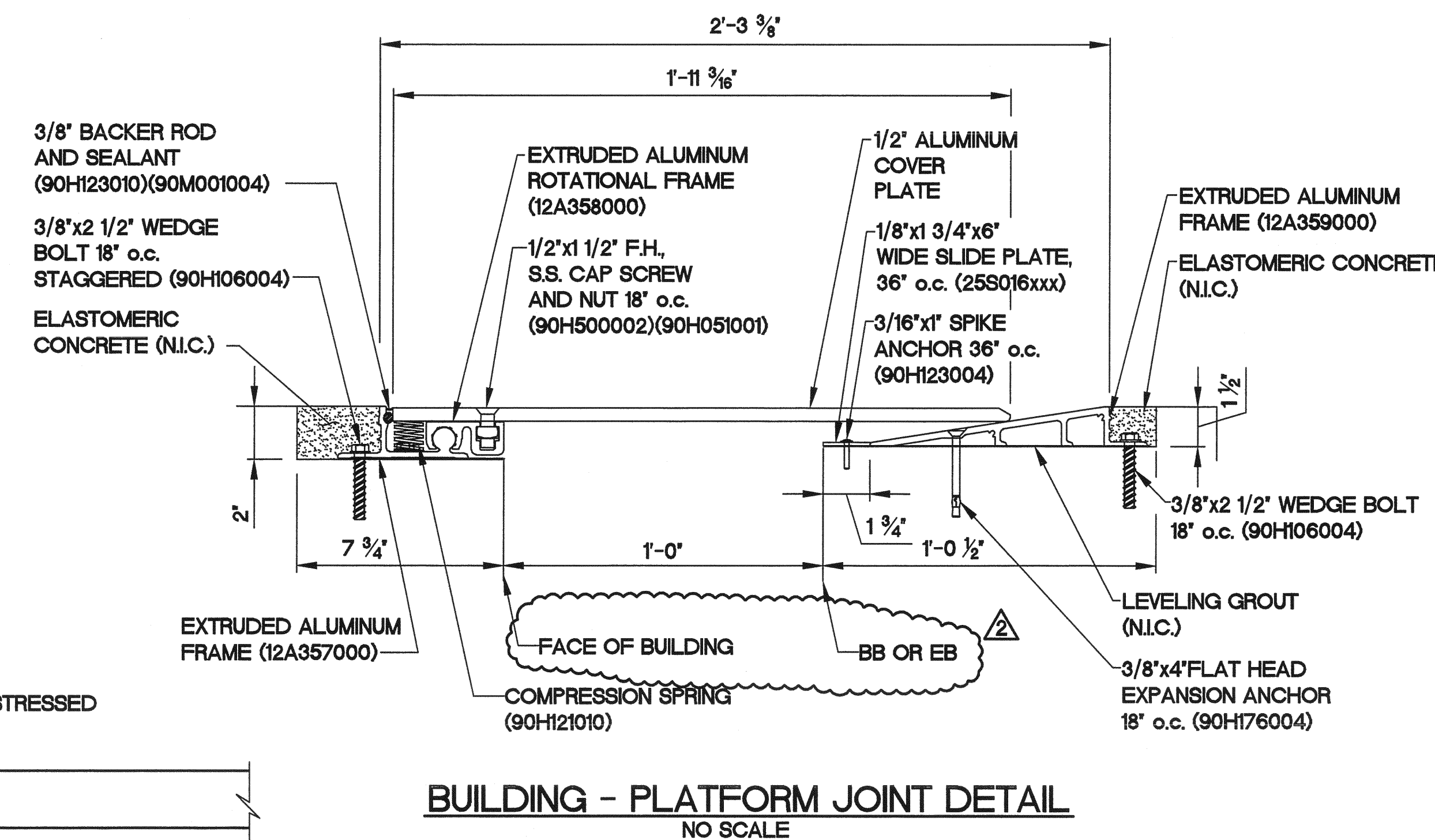
TERMINAL PARTIAL PLAN
SCALE: 1"=10'-0"



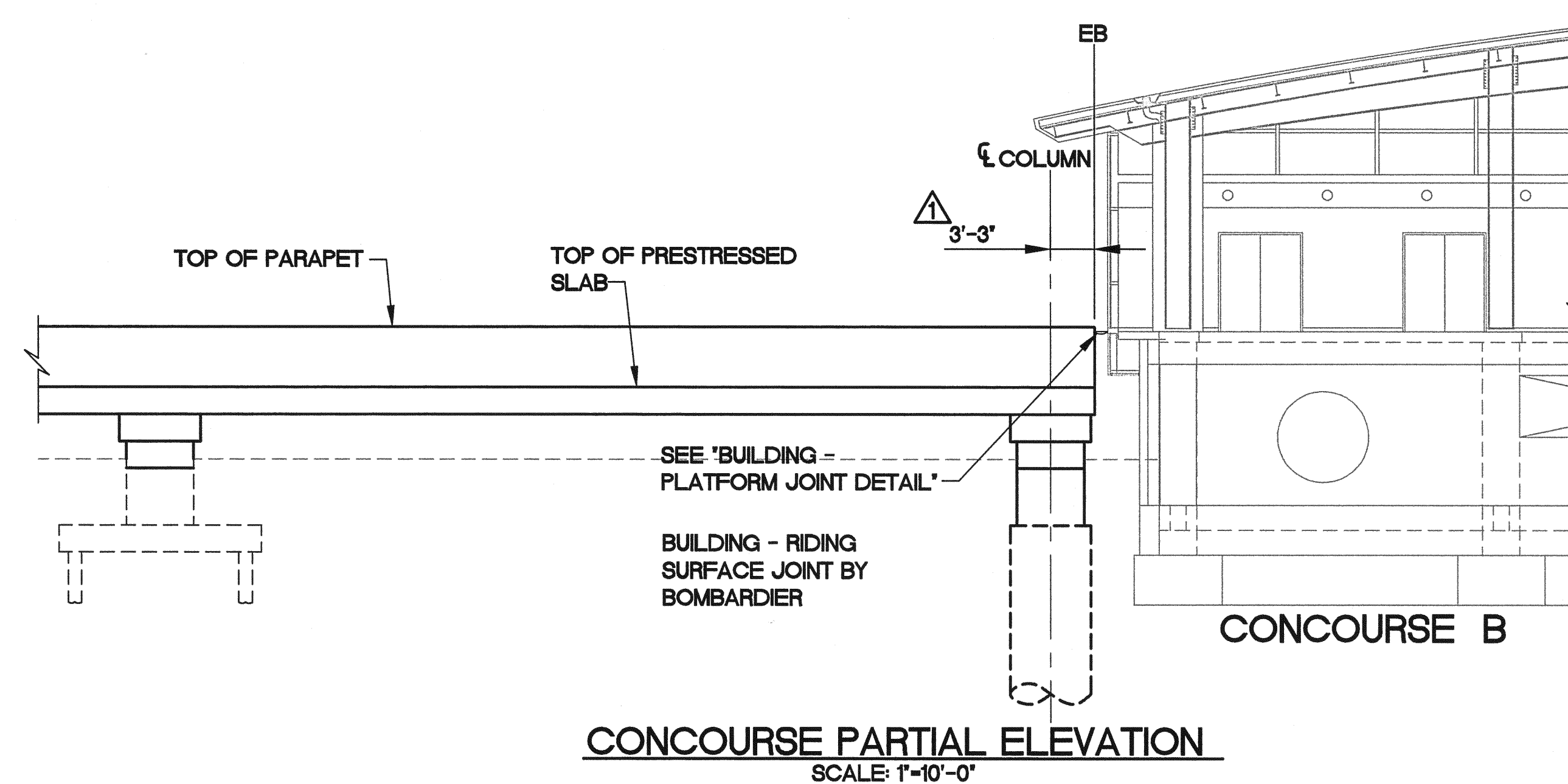
CONCOURSE PARTIAL PLAN
SCALE: 1"=10'-0"



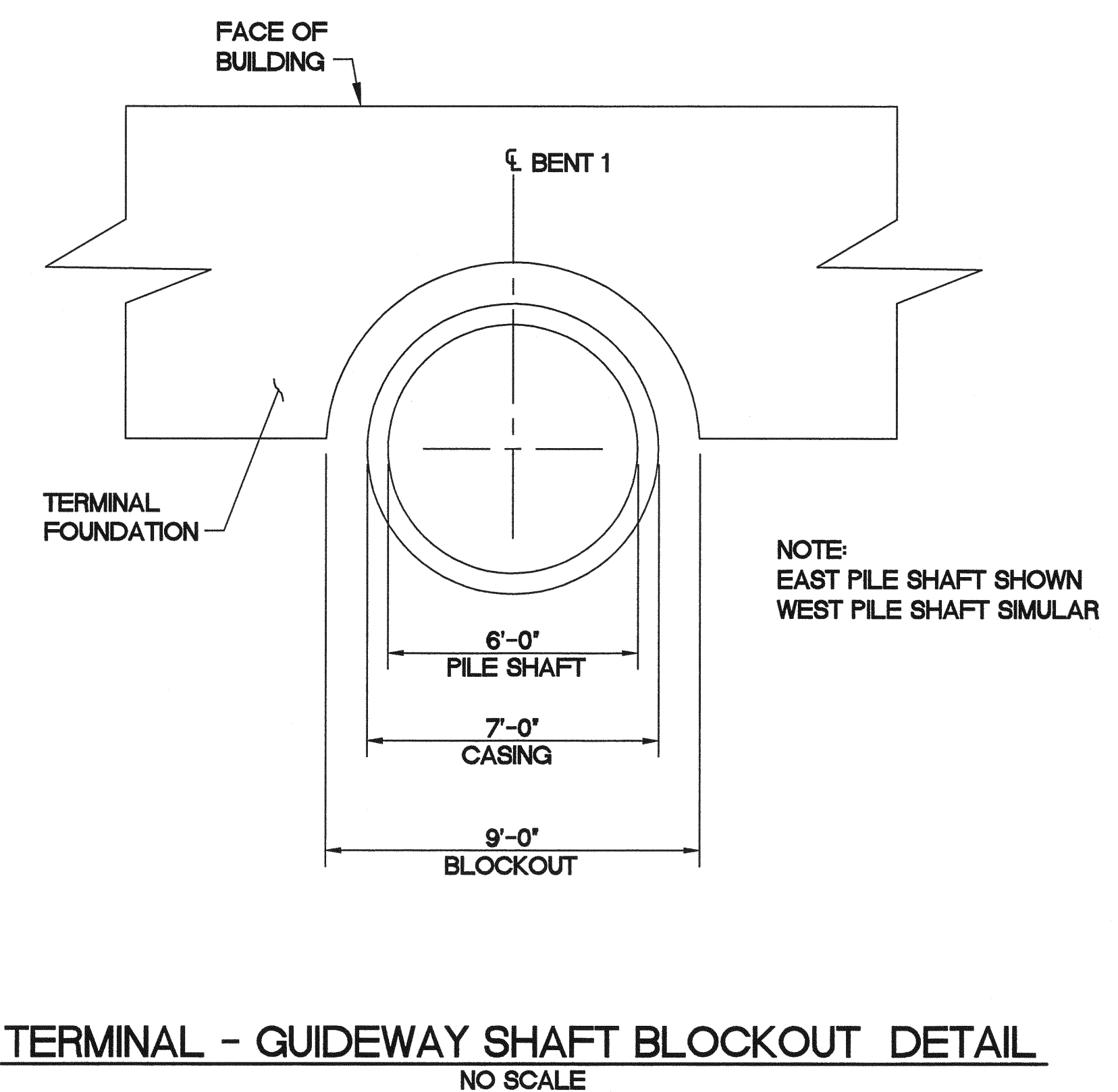
TERMINAL PARTIAL ELEVATION
SCALE: 1"=10'-0"



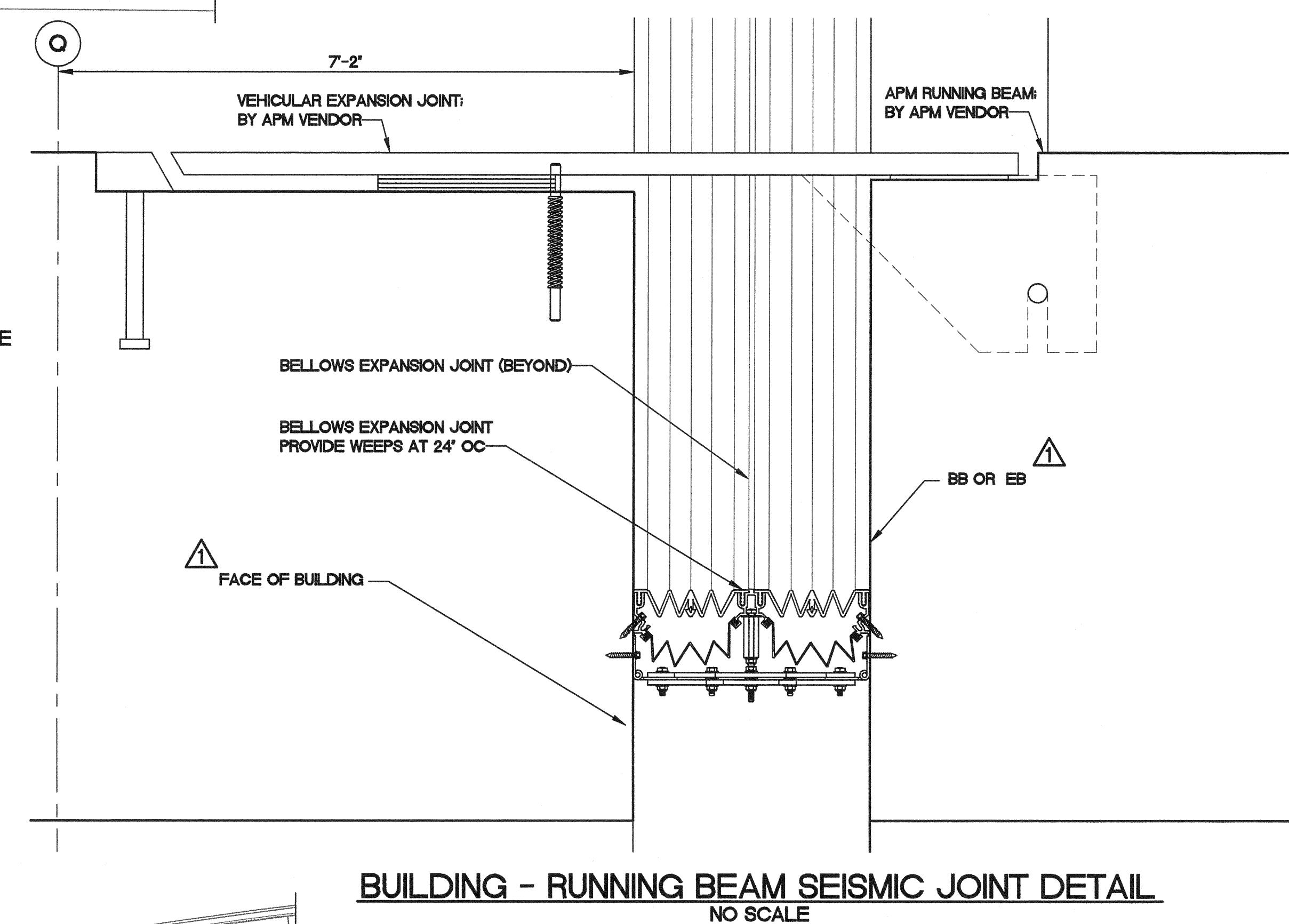
BUILDING - PLATFORM JOINT DETAIL
NO SCALE



CONCOURSE PARTIAL ELEVATION
SCALE: 1"=10'-0"



TERMINAL - GUIDEWAY SHAFT BLOCKOUT DETAIL
NO SCALE



BUILDING - RUNNING BEAM SEISMIC JOINT DETAIL
NO SCALE

- NOTES:
1. GUIDEWAY EMERGENCY PLATFORM NOT SHOWN.
 2. TUG TUNNEL NOT SHOWN.
 3. TOC = TOP OF COLUMN. ELEVATION IS TAKEN AT THE CENTER OF COLUMN AT THE TOP OF SLAB.
 4. BENT 1, SEE "TERMINAL - GUIDEWAY SHAFT BLOCKOUT DETAIL".
 5. USE CS GROUP MODEL CS 1200 BETWEEN GUIDEWAY AND BUILDING. USE C GROUP MODEL PTC 1200 BETWEEN EMERGENCY PLATFORM AND BUILDINGS.



FENTRESS | ARCHITECTS

ISSUES
000 12.22.08 95% REVIEW
001 03.09.09 IFC DCN AS026
REVISIONS
001 04.29.09 DCN AS034
002 06.26.09 DCN AS043

TERMINAL MODERNIZATION PROGRAM
AIRSIDE CONCOURSE B PROJECT

Central
Terminal B
Sacramento International Airport

02/02/12
RECORD DRAWINGS

APM ELEVATED
GUIDEWAY
BUILDING - GUIDEWAY
INTERFACE
JOB: 05003.0000

SHEET:
CA10.019
REVISION NO: AS-002



FENTRESS | ARCHITECTS

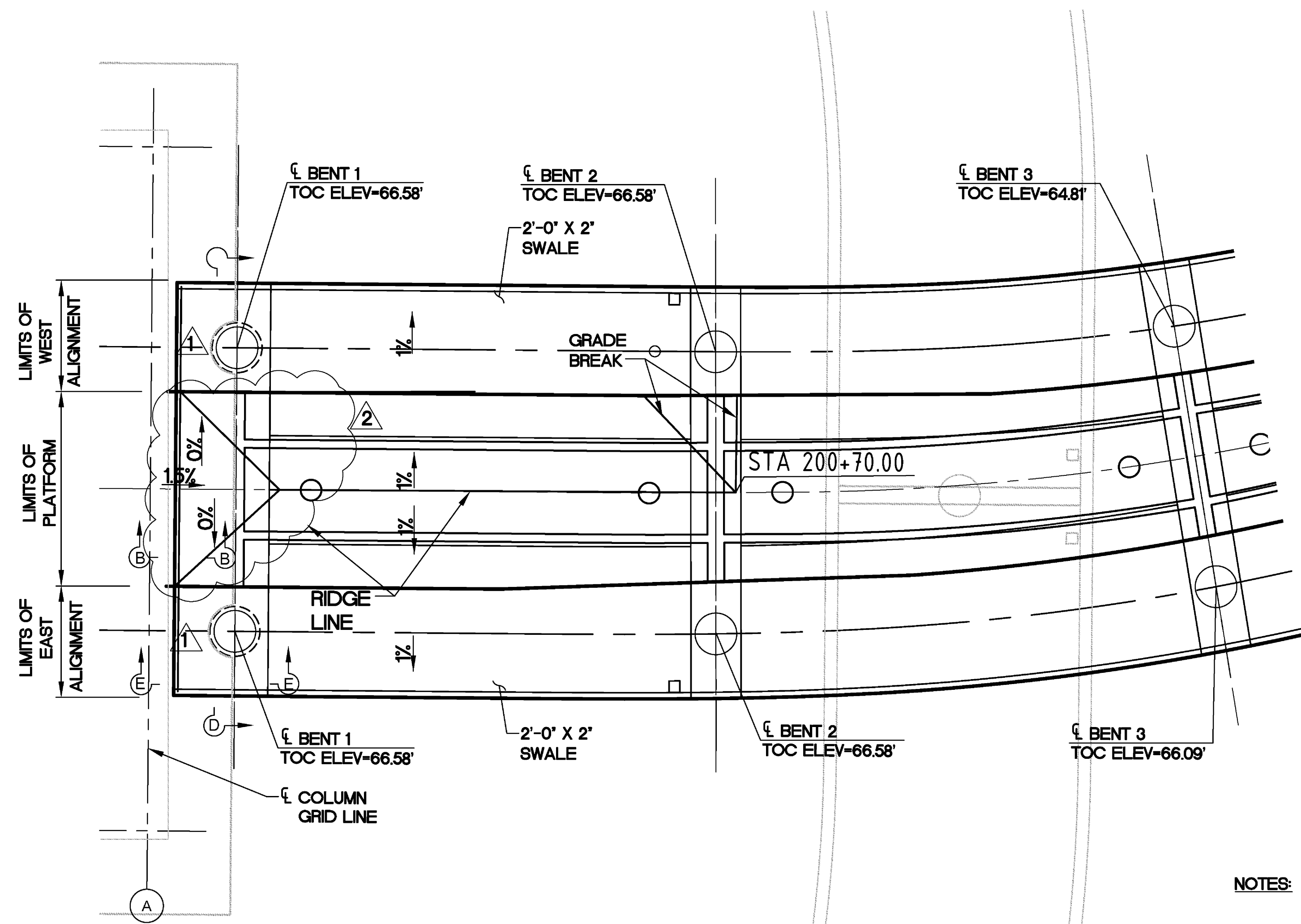
ISSUES
000 12.01.08 95% REVIEW
001 12.22.08 IFC DCN AS018
REVISIONS
001 10.02.09 DCN AS060
002 12.04.09 DCN AS067

TERMINAL MODERNIZATION PROGRAM
AIRSIDE CONCOURSE B PROJECT



02/02/12
RECORD DRAWINGS

APM ELEVATED
GUIDEWAY
DRAINAGE
DETAILS
JOB: 05003.0000
DATE: 12.22.08
SHEET:
CA10.020
REVISION NO: AS-002

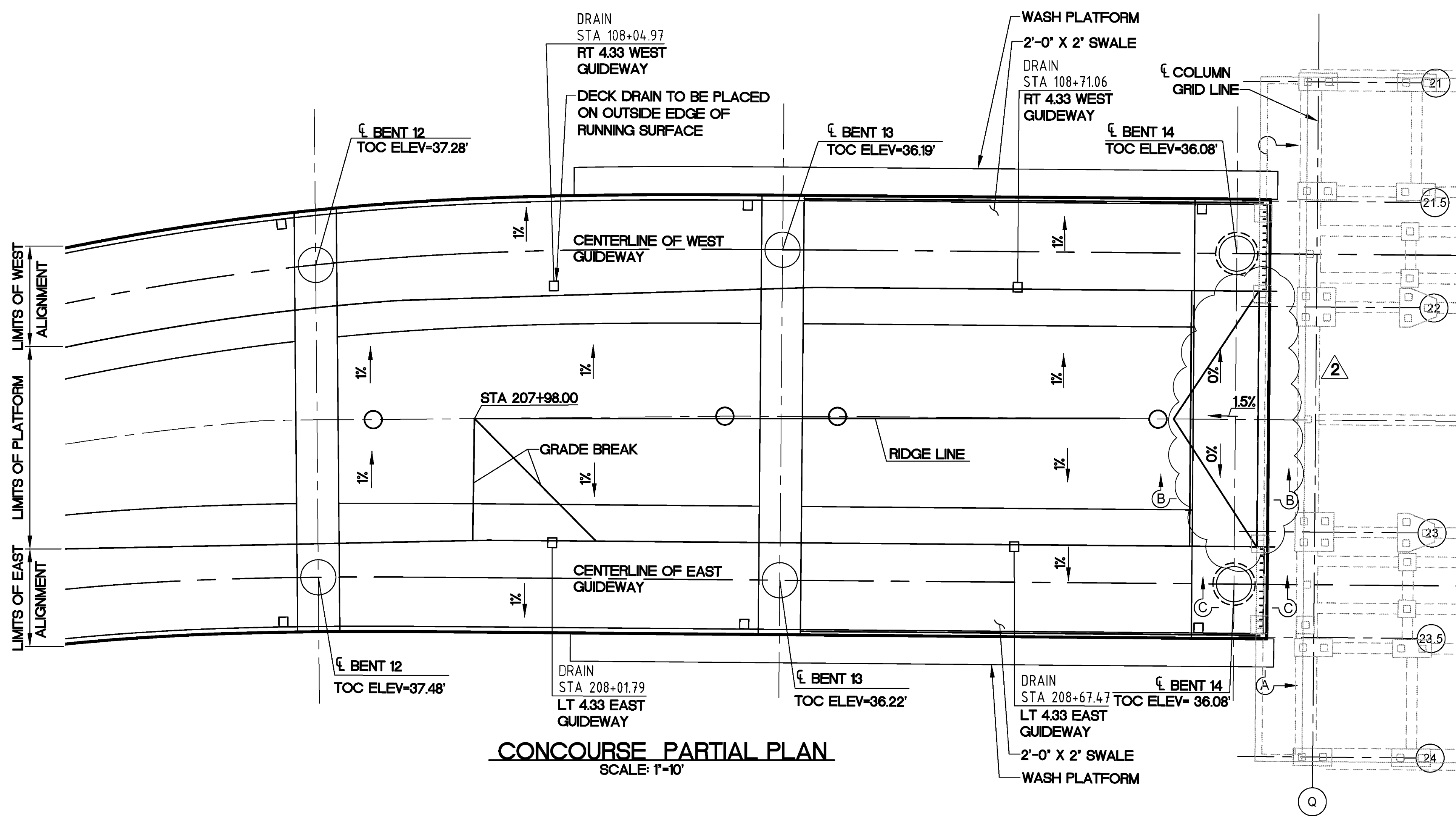


TERMINAL PARTIAL PLAN
SCALE: 1"=10'

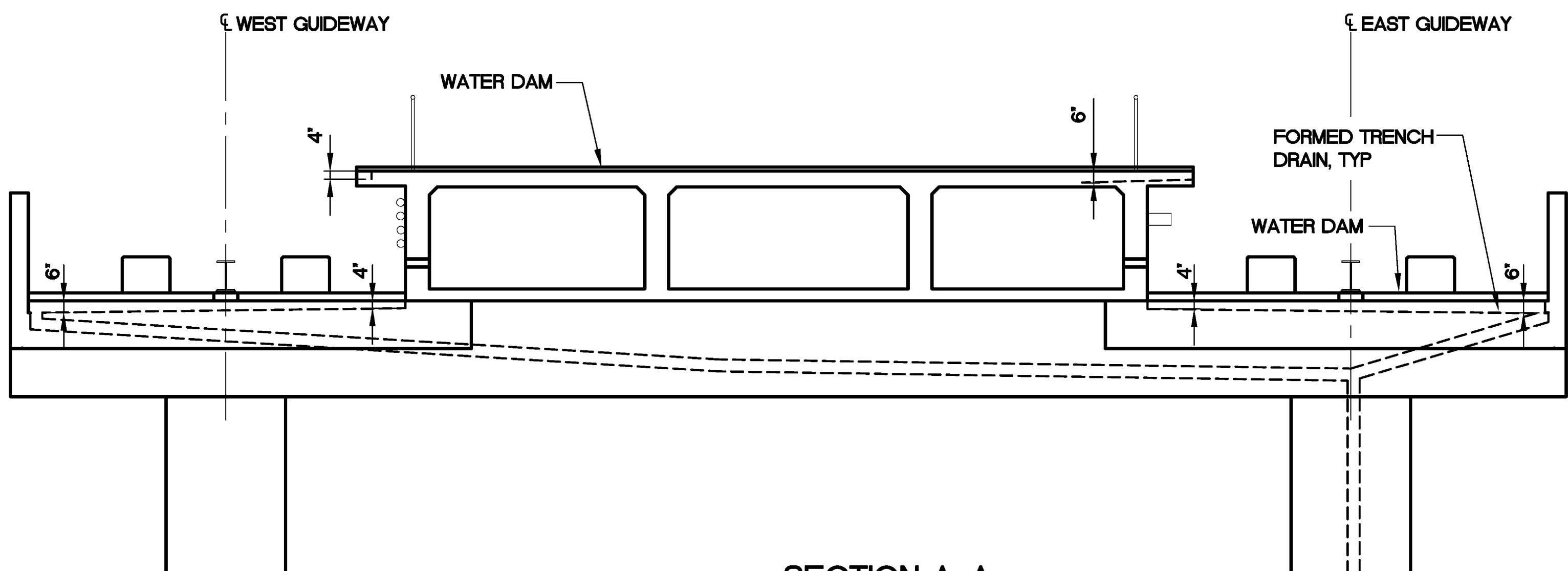
NOTES:

1. TOC = TOP OF COLUMN. ELEVATION IS TAKEN AT THE CENTER OF COLUMN AT THE TOP OF SLAB.
2. TRENCH DRAIN DEPTH VARIES FROM 4" TO 6" DEEP.
3. SWALE TO VARY FROM 0" TO 2" DEEP.
4. FOR WASH PLATFORM DETAILS, SEE "MISCELLANEOUS DETAILS" SHEET CA10.024.

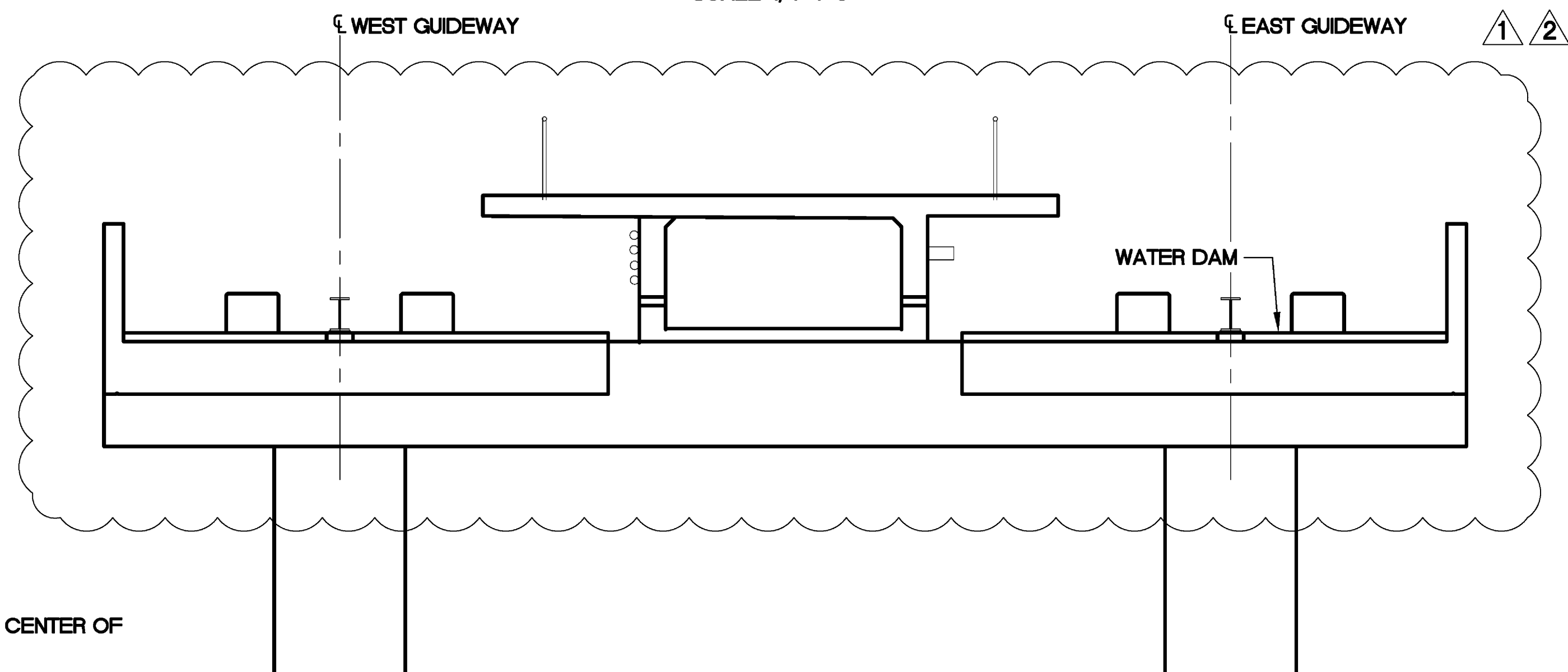
- DENOTES DECK DRAIN.
- DENOTES TRENCH DRAIN.
- DENOTES ACCESS OPENING.



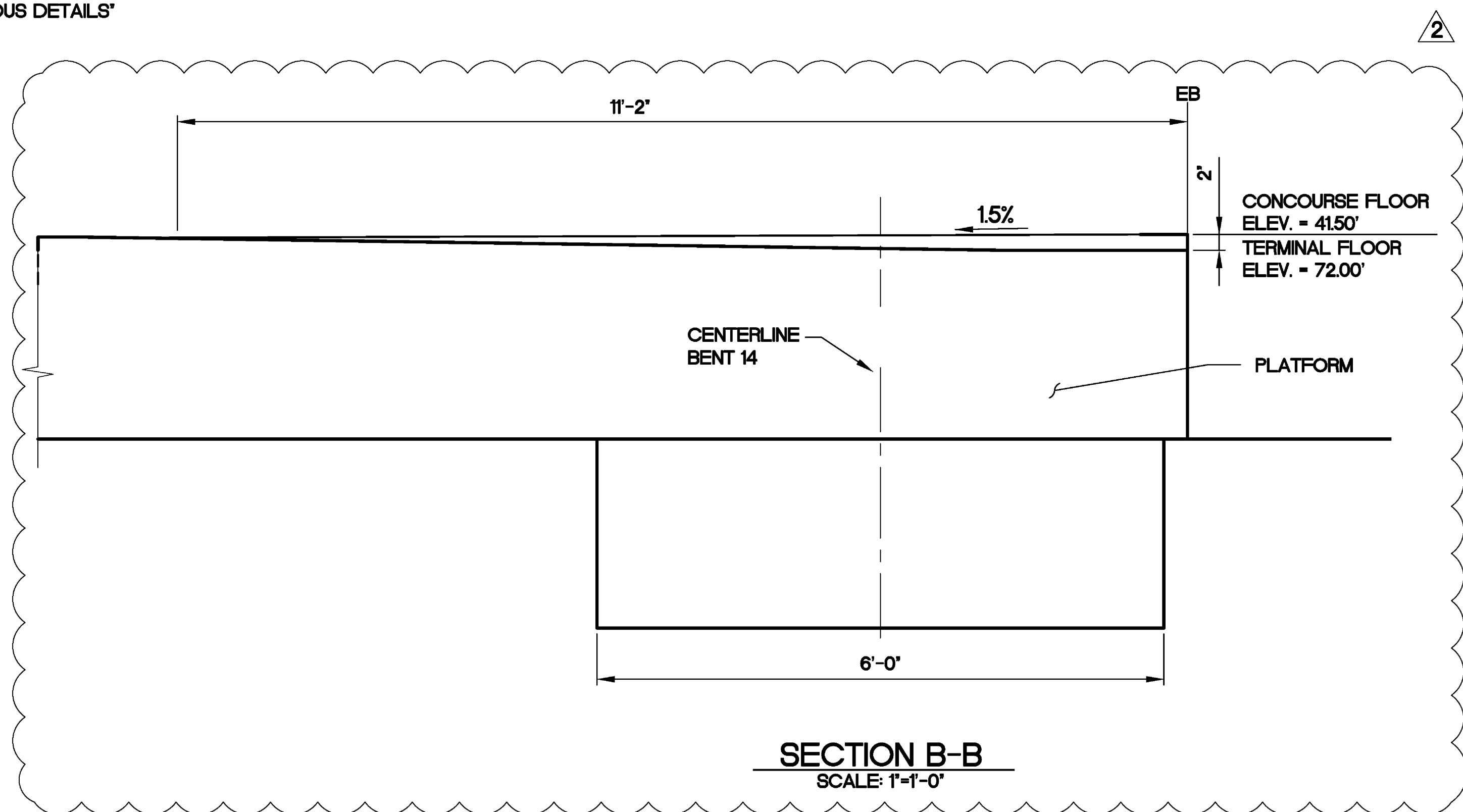
CONCOURSE PARTIAL PLAN
SCALE: 1"=10'



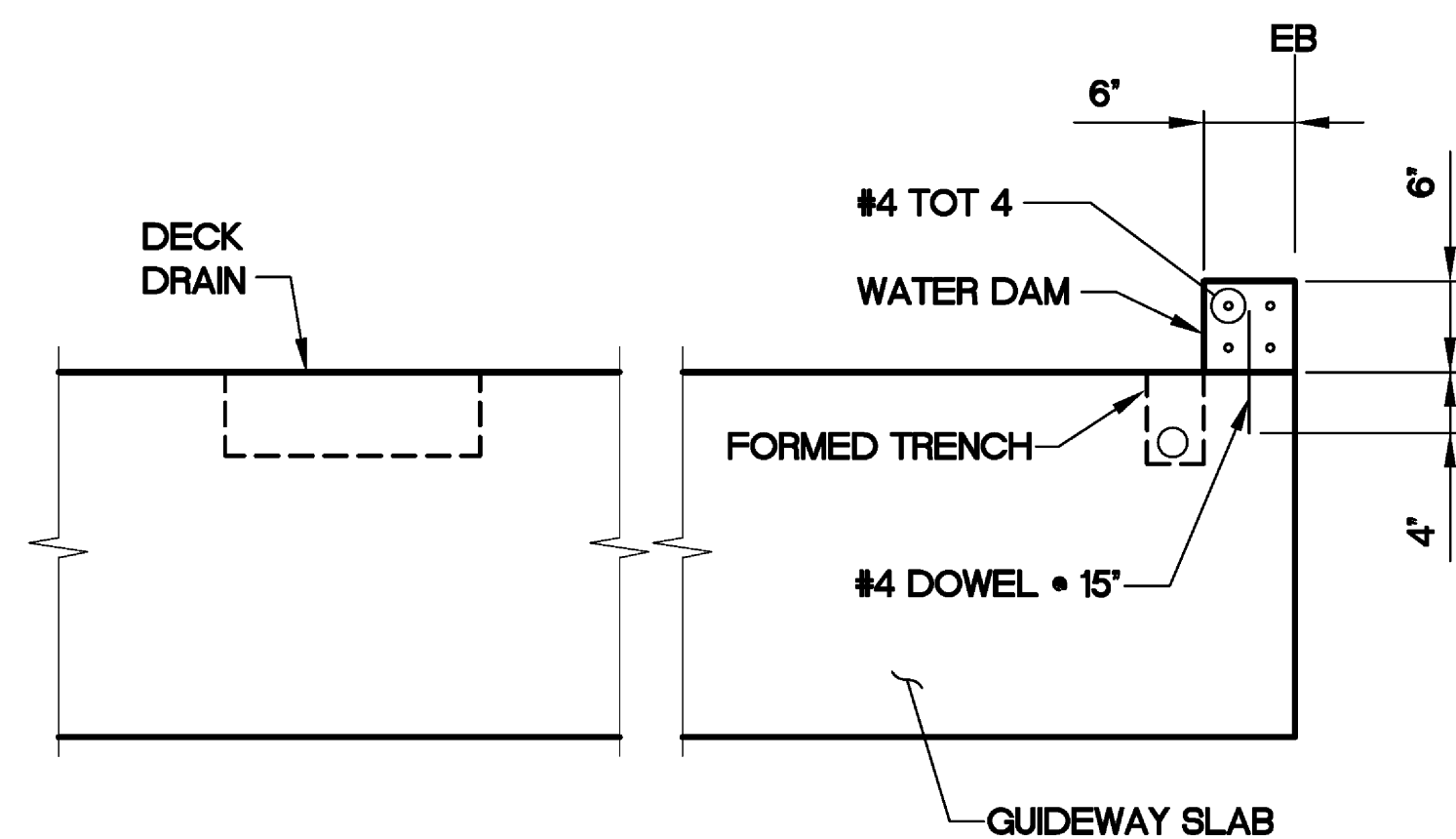
SECTION A-A
SCALE: 1/4"=1'-0"



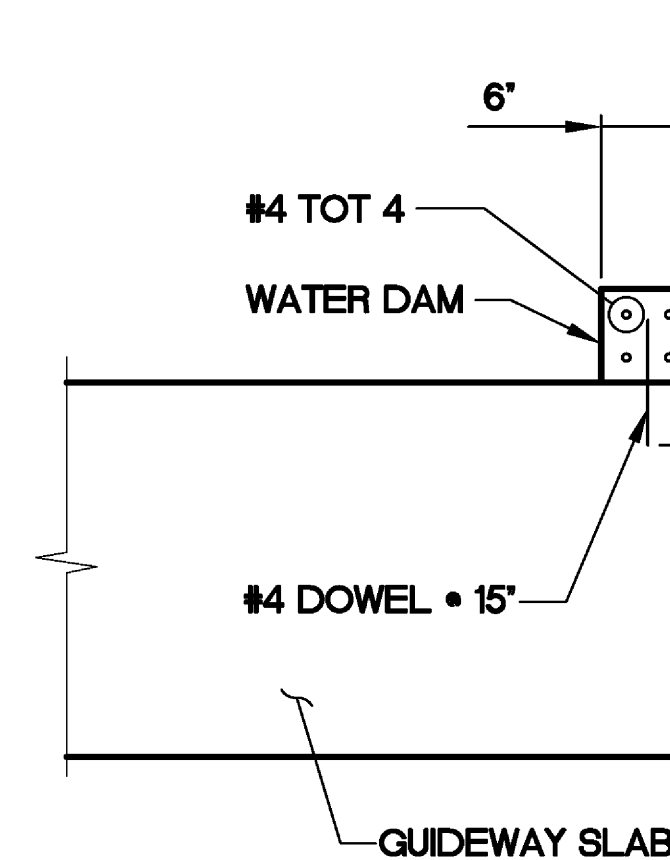
SECTION D-D
SCALE: 1/4"=1'-0"



SECTION B-B
SCALE: 1"=1'-0"

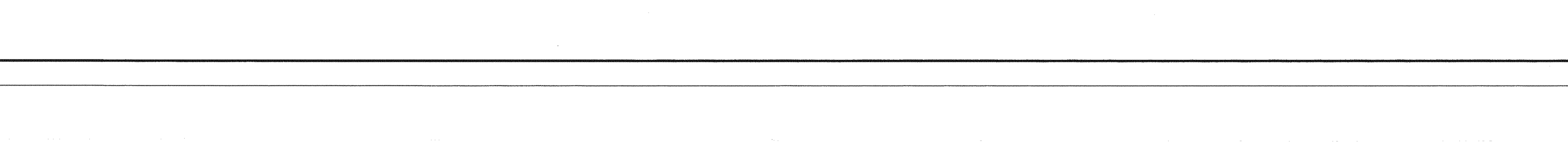
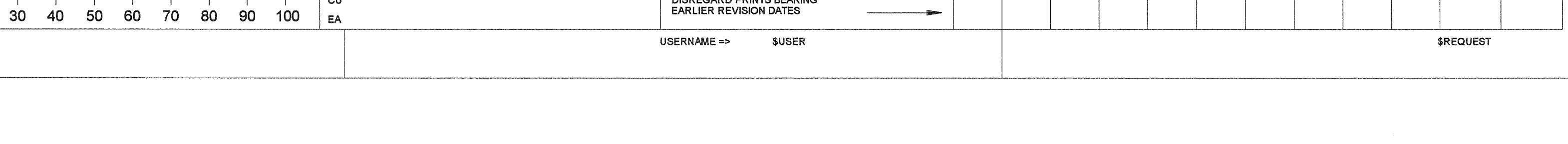
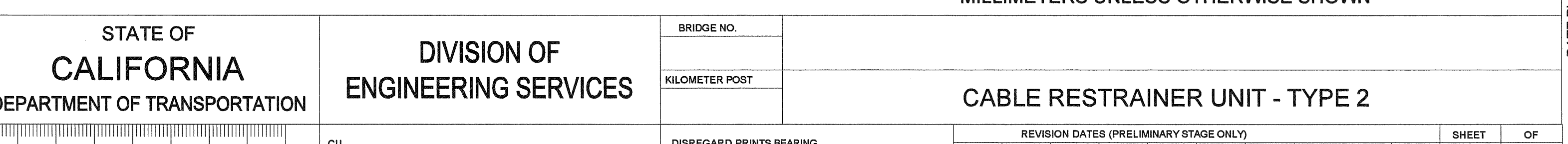
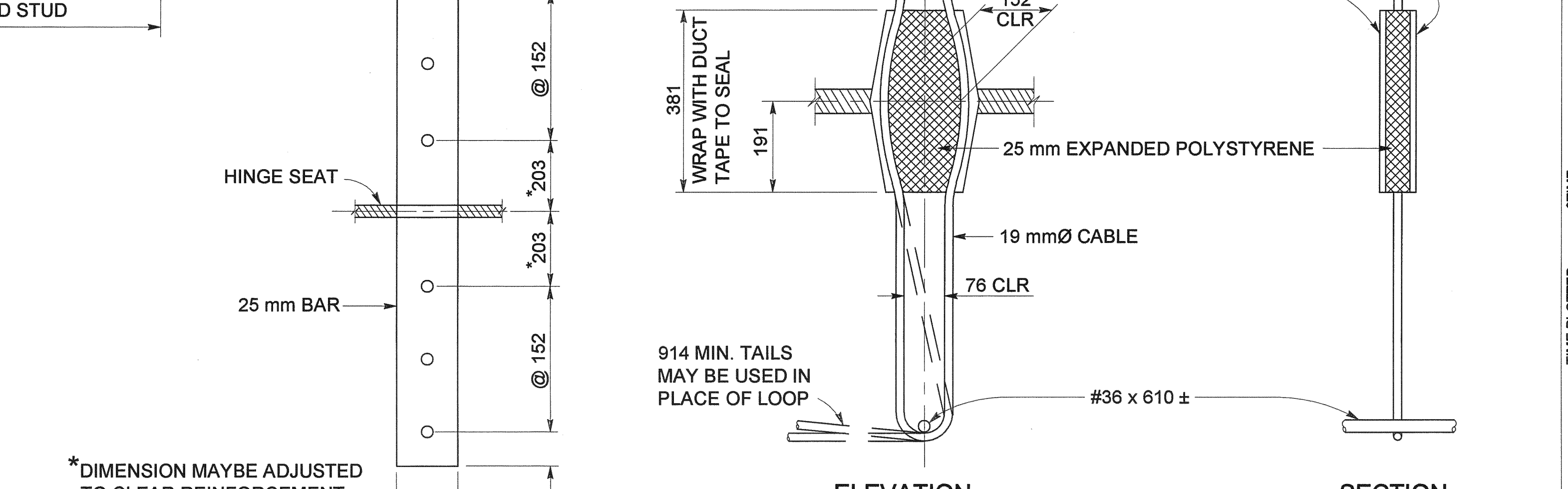
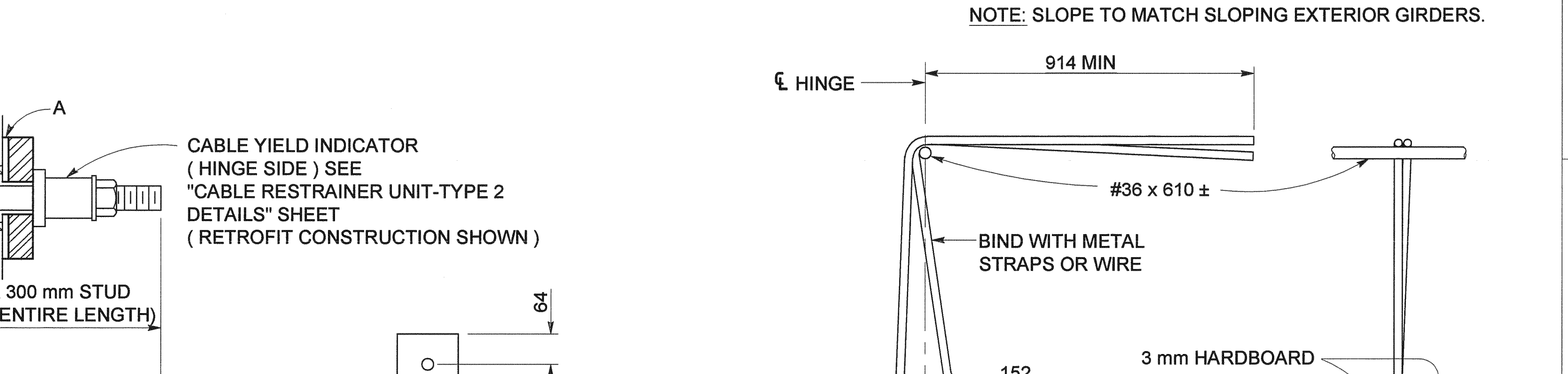
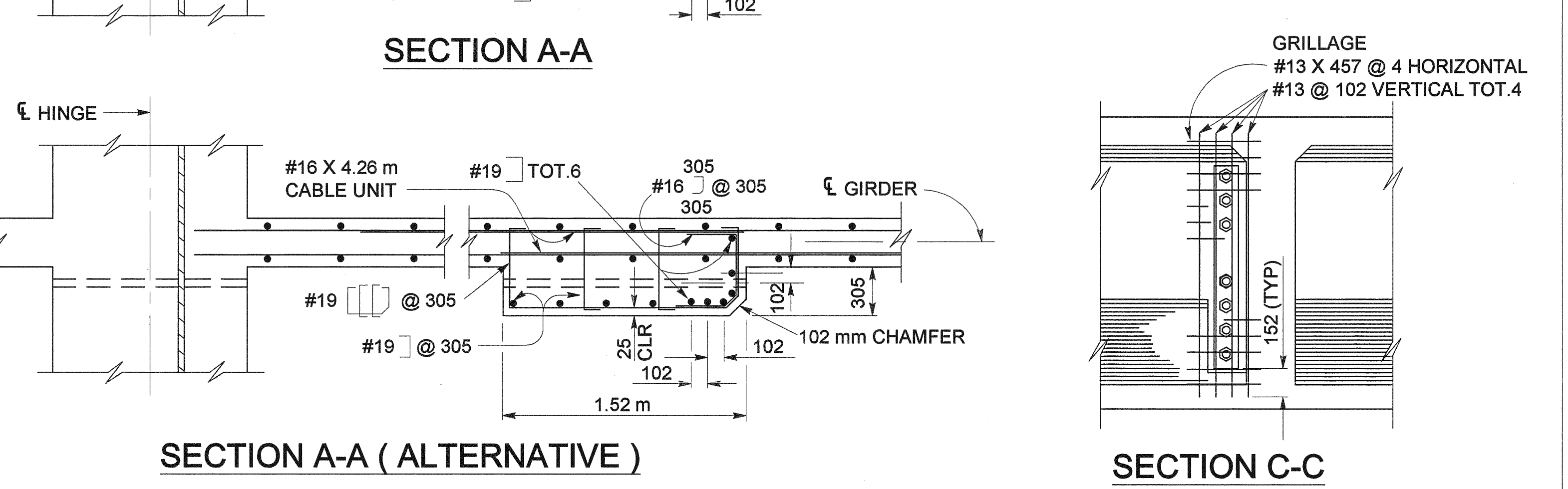
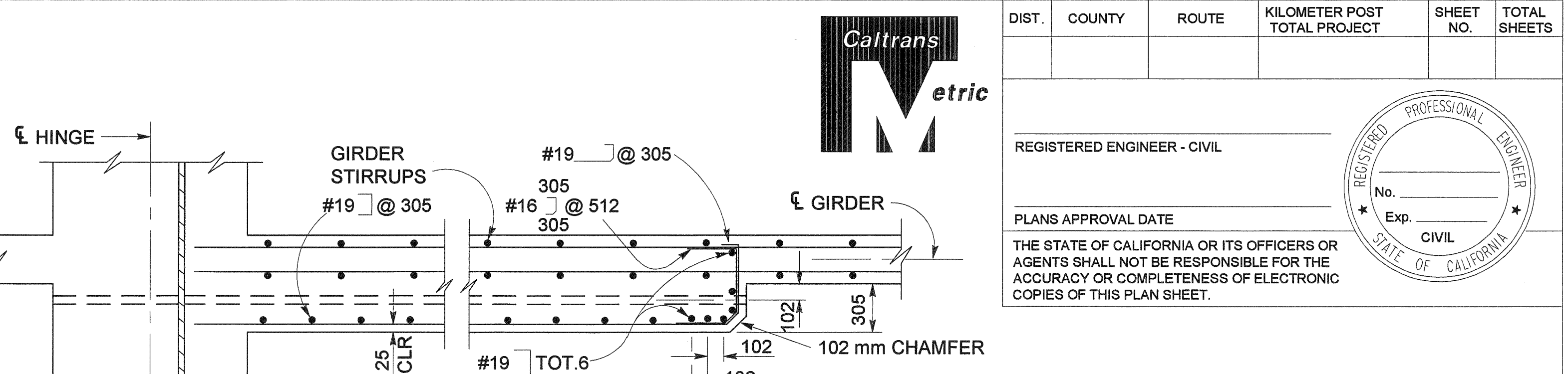
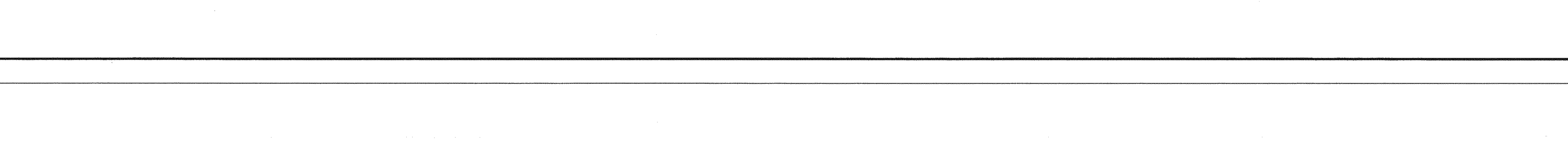
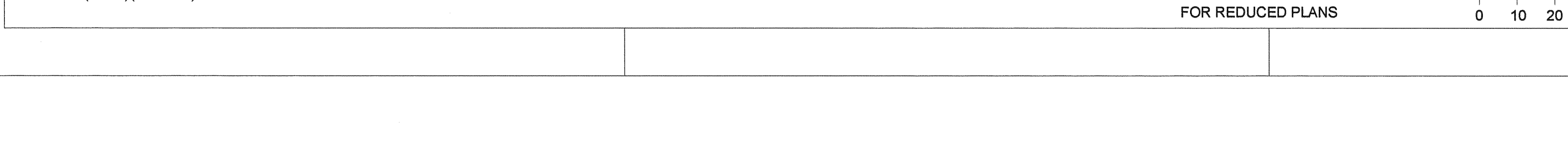
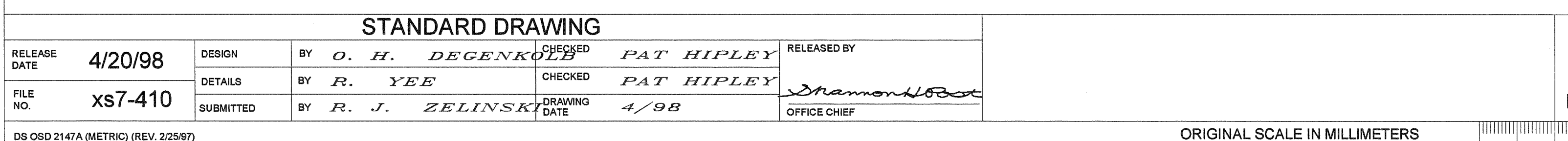
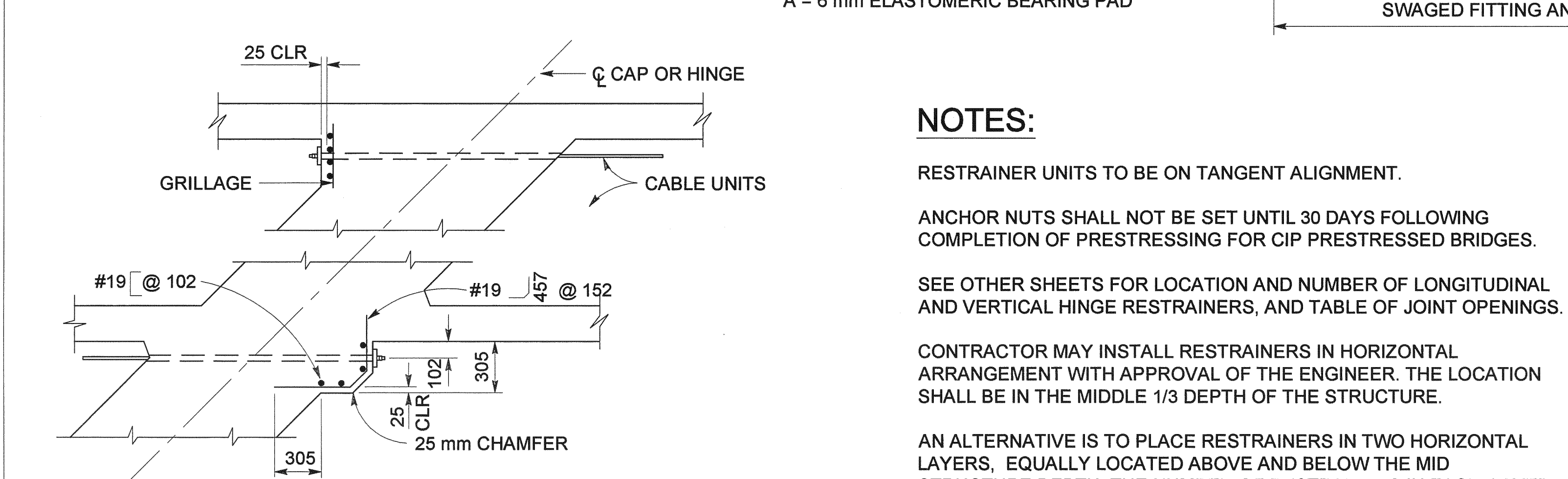
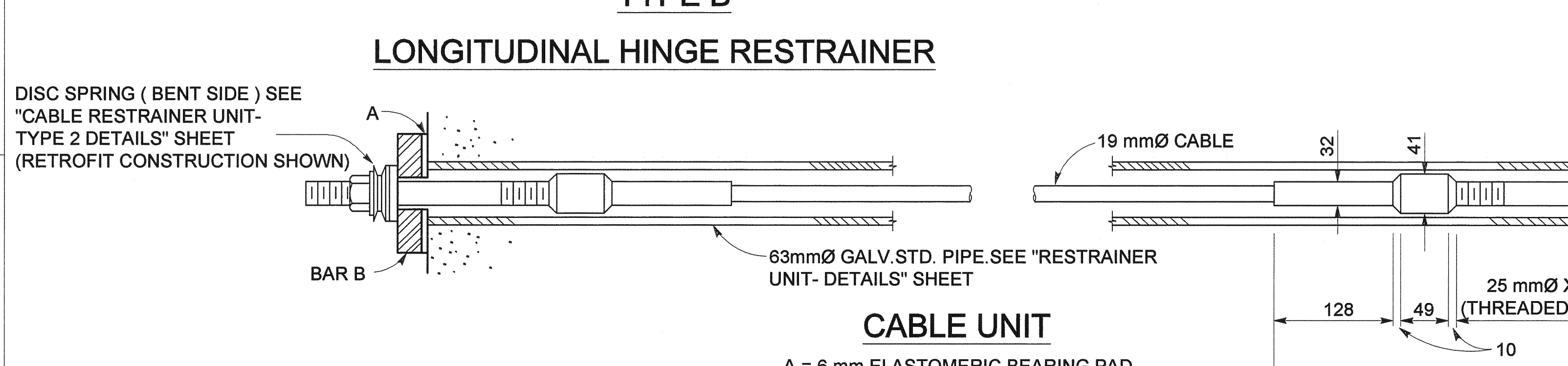
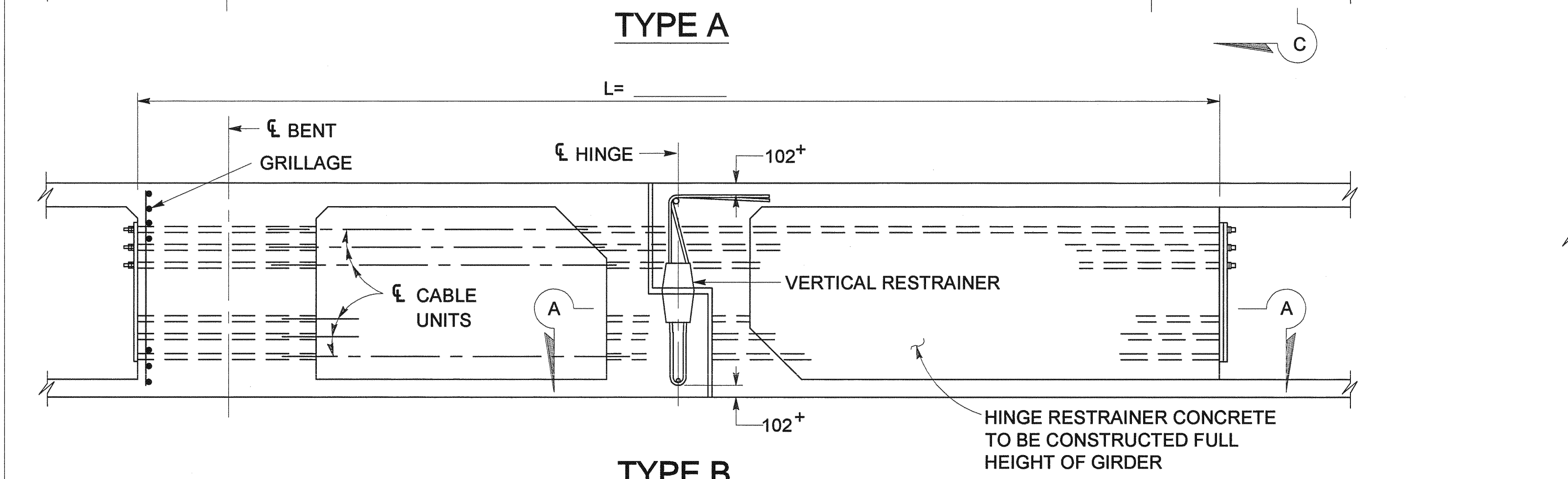
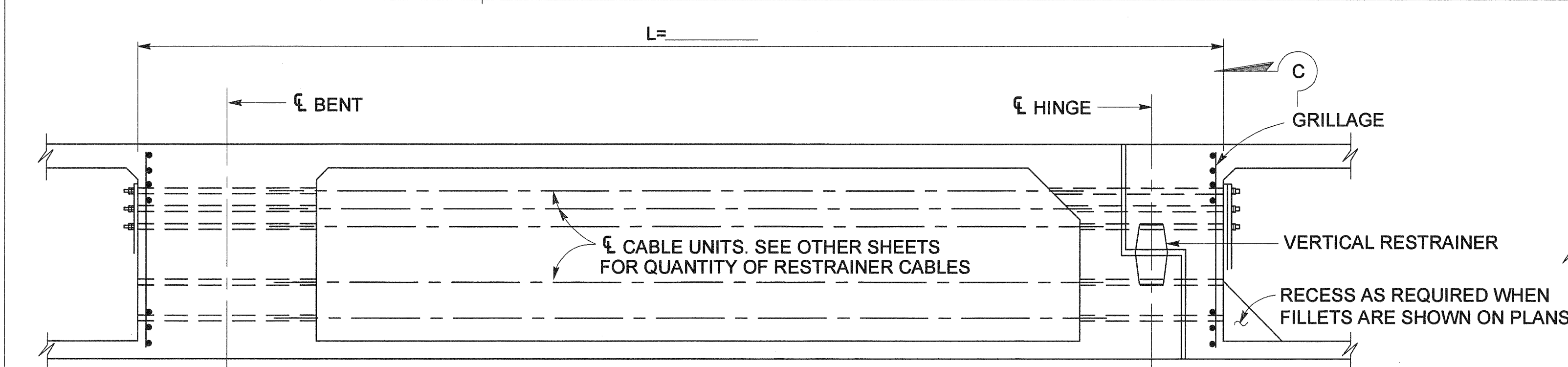


SECTION C-C
SCALE: 1"=1'-0"



SECTION E-E
SCALE: 1"=1'-0"

6 March 2009 6:11 PM C:\projects\CA10\Drawings\CA10_021_RD_1-a.dwg 6 March 2009 6:11 PM C:\projects\CA10\Drawings\CA10_021_RD_1-a.dwg



RELEASE DATE	4/20/98	DESIGN	BY	O. H. DEGENKOTZ	CHECKED	PAT HIPLEY	RELEASED BY	
FILE NO.	XS7-410	DETAILS	BY	R. YEE	CHECKED	PAT HIPLEY	OFFICE CHIEF	
		SUBMITTED	BY	R. J. ZELINSKY	DRAWING DATE	4/98		

STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES
DEPARTMENT OF TRANSPORTATION	

BRIDGE NO.	
KILOMETER POST	
REVISION DATES (PRELIMINARY STAGE ONLY)	
DISREGARD PRINTS BEARING EARLIER REVISION DATES	
USERNAME	
SUSER	
\$REQUEST	

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	0 10 20 30 40 50 60 70 80 90 100
---	----------------------------------

Caltrans metric

REGISTERED ENGINEER - CIVIL

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER

CIVIL

STATE OF CALIFORNIA

GRILLAGE #13 X 457 @ 4 HORIZONTAL #13 @ 102 VERTICAL TOT. 4

NOTE: SLOPE TO MATCH SLOPING EXTERIOR GIRDERS.

19 mmØ CABLE

25 mmØ X 300 mm STUD (THREADED ENTIRE LENGTH)

SWAGED FITTING AND STUD

25 mm BAR

HINGE SEAT

25 mm CHAMFER

25 mm CLER

25 mm CLER

102 mm CHAMFER

102 mm CHAMFER

102 mm CHAMFER

102 mm CHAMFER

102 mm CHAMFER

102 mm CHAMFER

102 mm CHAMFER

102 mm CHAMFER

102 mm CHAMFER

102 mm CHAMFER

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PRETZER, TODD



FENTRESS ARCHITECTS

ISSUES
000 12.22.08 95% REVIEW
001 03.09.09 IFC DCN AS026

REVISIONS

TERMINAL MODERNIZATION PROGRAM
AIRSIDE CONCOURSE B PROJECT

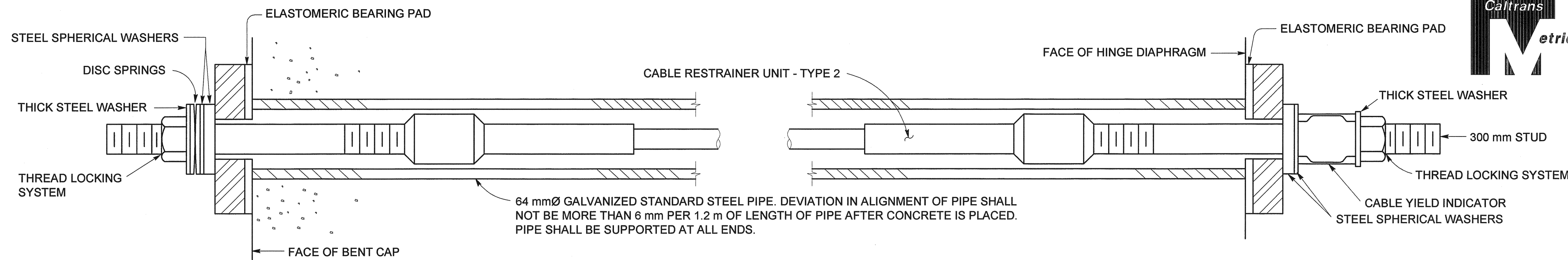


02/02/12
RECORD DRAWINGS

APM ELEVATED
GUIDEWAY
RESTRAINER
DETAIL No.2

JOB: 05003.0000
DATE: 03.09.09

SHEET:
CA10.022
REVISION NO: AS-000



BENT SIDE
(RETROFIT CONSTRUCTION SHOWN)

CABLE UNIT

HINGE SIDE
(RETROFIT CONSTRUCTION SHOWN)

DISC SPRINGS AND WASHERS

"ALL DIMENSIONS IN mm, EXCEPT AS NOTED"

L* (m)	DISC SPRING					STEEL SPHERICAL WASHER			THICK WASHER		
	ID	OD	t	H	COLOR CODE	ID	OD	NOM THICK.	ID	OD	t**
0 - 7.6	25	50	1.6	3.3	WHITE	30	57	13	26	50	6.3
7.7 - 9.7	25	50	2.0	3.4	RED	30	57	13	26	50	6.3
9.8 - 11.5	25	50	2.4	3.6	BLUE	30	57	13	26	50	6.3
11.6 - 13.7	31	63	2.5	4.5	YELLOW	33	64	13	29	57	6.3

* FOR LENGTH L (m), SEE "CABLE RESTRAINER UNIT - TYPE 2" SHEET

** MINIMUM VALUE

NOTE: ALL OD AND ID DIMENSIONS FOR WASHERS AND DISC SPRINGS SHALL MEET THE DIMENSIONAL TOLERANCES FOR HARDEN STEEL WASHERS, ASTM F436

RESTRAINER UNIT INSTALLATION PROCEDURE

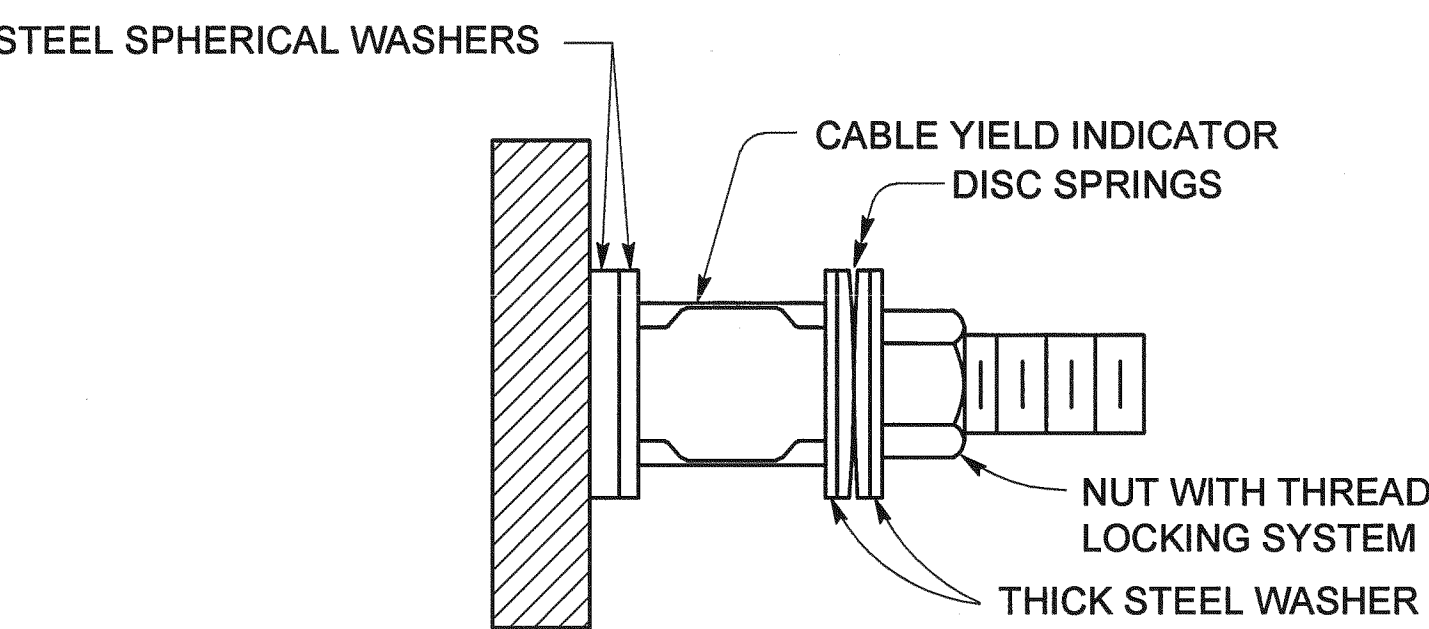
NEW CONSTRUCTION:

- INSTALL CABLE YIELD INDICATOR, SPHERICAL WASHERS, DISC SPRINGS, NUT AND WASHERS ON THE HINGE SIDE OF RESTRAINERS AS SHOWN IN "ADJUSTMENT END" DETAIL. DISC SPRINGS SHALL BE INSTALLED FRONT TO FRONT AS SHOWN IN "DISC SPRING" DETAIL.
- PLACE ONLY NUT AND WASHER ON BENT SIDE OF RESTRAINERS. PLACE THREAD LOCKING SYSTEM ON BENT SIDE STUD PRIOR TO INSTALLING NUT AND WASHERS, AND PRIOR TO SETTING THE CABLE.
- TIGHTEN NUT ON THE CABLE FROM THE ADJUSTMENT END OF RESTRAINER UNTIL THE DISC SPRINGS COLLAPSE AND THERE IS NO DISC GAP REMAINING BETWEEN THE DISCS. THE CABLE SHOULD BE APPROXIMATELY STRAIGHT WITH NO SAG.
- SEE ITEM 5 OF RETROFIT CONSTRUCTION.

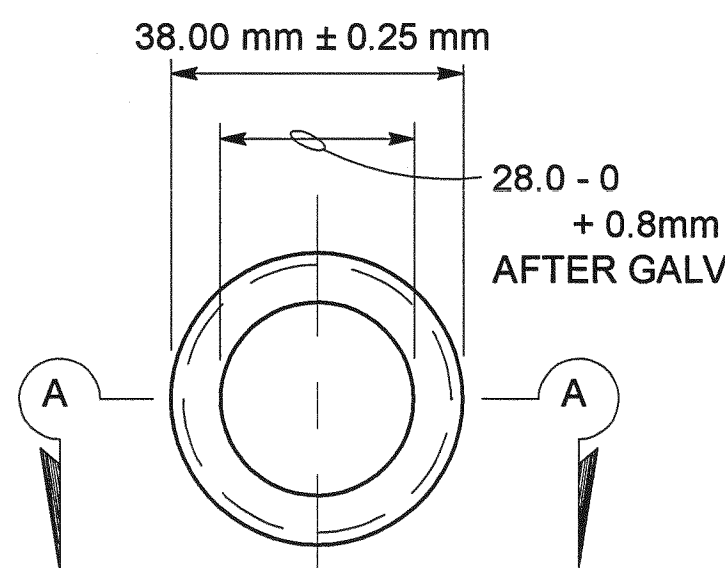
RETROFIT CONSTRUCTION:

- INSTALL DISC SPRINGS ON BENT SIDE OF CABLE SYSTEM USING SPHERICAL WASHERS TO ALIGN DISCS TO STUD. DISCS SHALL BE INSTALLED FRONT TO FRONT AS SHOWN IN "DISC SPRING" DETAIL. INSTALL CABLE YIELD INDICATOR, SPHERICAL WASHERS, NUT AND WASHER ON THE HINGE SIDE OF RESTRAINERS AS SHOWN IN "CABLE UNIT" DETAIL.
- IF EXISTING RETROFIT CABLES ARE BEING REUSED, 300 mm STUDS SHALL BE INSTALLED.
- PLACE THREAD LOCKING SYSTEM ON BENT SIDE STUD PRIOR TO INSTALLING NUT AND WASHERS, AND PRIOR TO SETTING THE CABLE.
- TIGHTEN THE CABLE FROM HINGE SIDE OF RESTRAINER UNTIL THE DISC SPRINGS AT THE OPPOSITE END COLLAPSE, AND THERE IS NO DISC GAP REMAINING BETWEEN THE DISCS. THE CABLE SHOULD BE APPROXIMATELY STRAIGHT WITH NO SAG.
- PLACE THREAD LOCKING SYSTEM ON HINGE SIDE STUD AFTER TIGHTENING THE CABLE, BUT BEFORE BACKING OFF THE NUT. BACK OFF THE NUT AT HINGE SIDE A DISTANCE EQUAL TO MAXIMUM ADDITIONAL AMOUNT THAT THE HINGE JOINT IS EXPECTED TO OPEN, RELATIVE TO EXISTING AMBIENT CONDITIONS, AS SHOWN ON THE PLANS FOR MOVEMENT RATING.

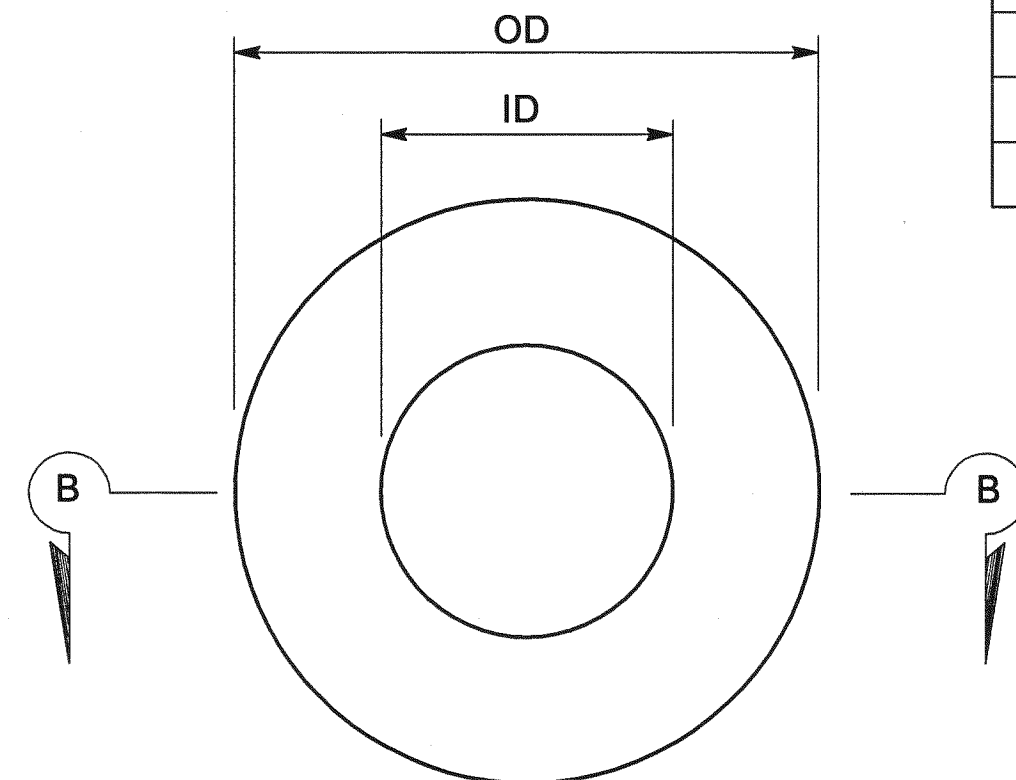
NOTE: IF THE CABLE NEEDS TO BE SECURED FROM TURNING WHILE TIGHTENING, USE DOUBLE NUT LOCKING TECHNIQUE ON THE STUD TO PROTECT THE THREADS.



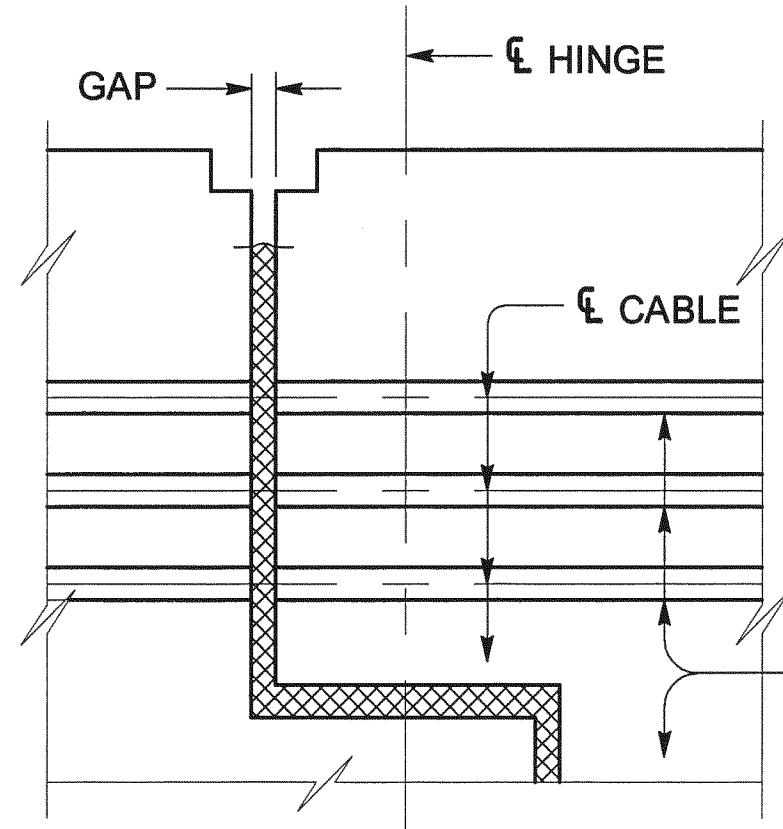
ADJUSTMENT END
(NEW CONSTRUCTION SHOWN)



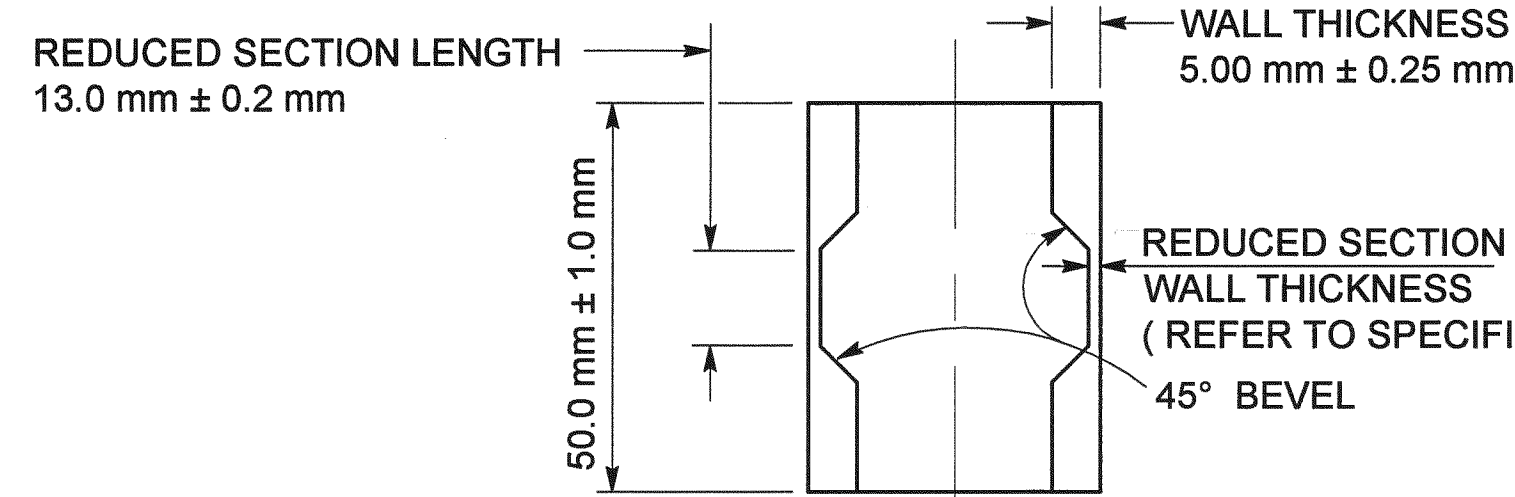
END VIEW



PLAN



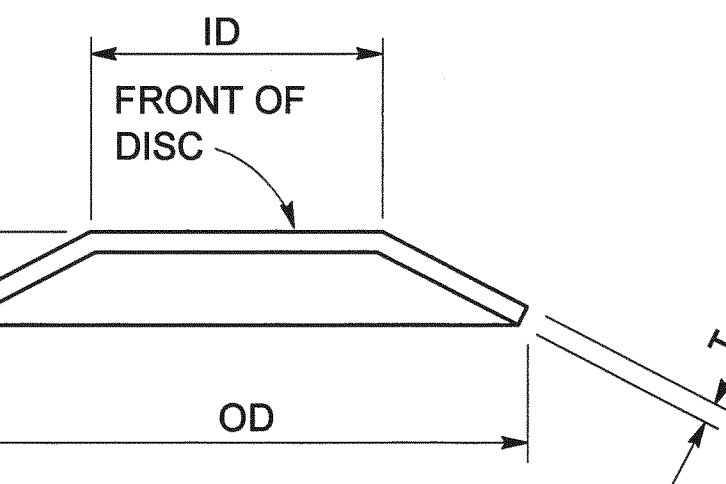
HINGE DETAIL



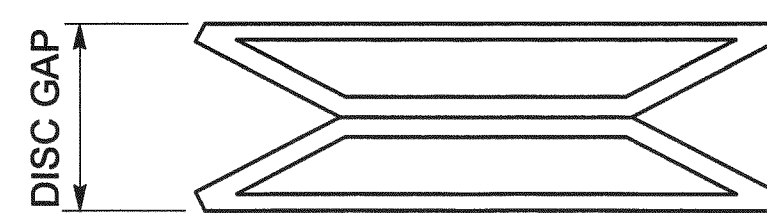
SECTION A-A

CABLE YIELD INDICATOR

ALL DIMENSIONS ARE BEFORE GALVANIZING EXCEPT AS NOTED.



SECTION B-B
(SINGLE SPRING)



AS INSTALLED ON STUD

DISC SPRING

NOTE: FOR DIMENSIONS NOT SHOWN, SEE TABLE

NOTES:

- THE ENDS OF PIPE SHALL BE COVERED OR CAPPED TO PREVENT CONCRETE AND DEBRIS FROM ENTERING THE PIPE UNTIL HINGE CONCRETE IS PLACED.
- CARE SHOULD BE TAKEN TO ALIGN THE PIPES ON EACH SIDE OF THE HINGE.
- ALL ENDS OF PIPES MUST BE FLUSH WITH OR SLIGHTLY RECESSED FROM THE CONCRETE. THE INSIDE EDGES OF THE PIPES MUST BE SMOOTH TO PREVENT FRAYING OF CABLES.

STANDARD DRAWING

RELEASE DATE	4/20/98	DESIGN	BY S. SAHS	CHECKED R.J. ZELINSKI	RELEASED BY
FILE NO.	xs7-420	DETAILS	BY R. YEE	CHECKED R.J. ZELINSKI	DRAMON, ROBERT
		SUBMITTED	BY R.J. ZELINSKI	DRAWING DATE 4/98	OFFICE CHIEF

DS 08D 2147A (METRIC) (REV. 2/25/97)

ORIGINAL SCALE IN MILLIMETERS
FOR REDUCED PLANS

0 10 20 30 40 50 60 70 80 90 100

CU
EA

STATE OF
CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF
ENGINEERING SERVICES

NO SCALE

ALL DIMENSIONS ARE IN
MILLIMETERS UNLESS OTHERWISE SHOWN

BRIDGE NO.

KILOMETER POST

CABLE RESTRAINER UNIT - TYPE 2 DETAILS

DISREGARD PRINTS BEARING
EARLIER REVISION DATES

USERNAME => \$USER

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET

\$REQUEST

DATE PLOTTED => \$TIME

\$DATE



FENTRESS | ARCHITECTS

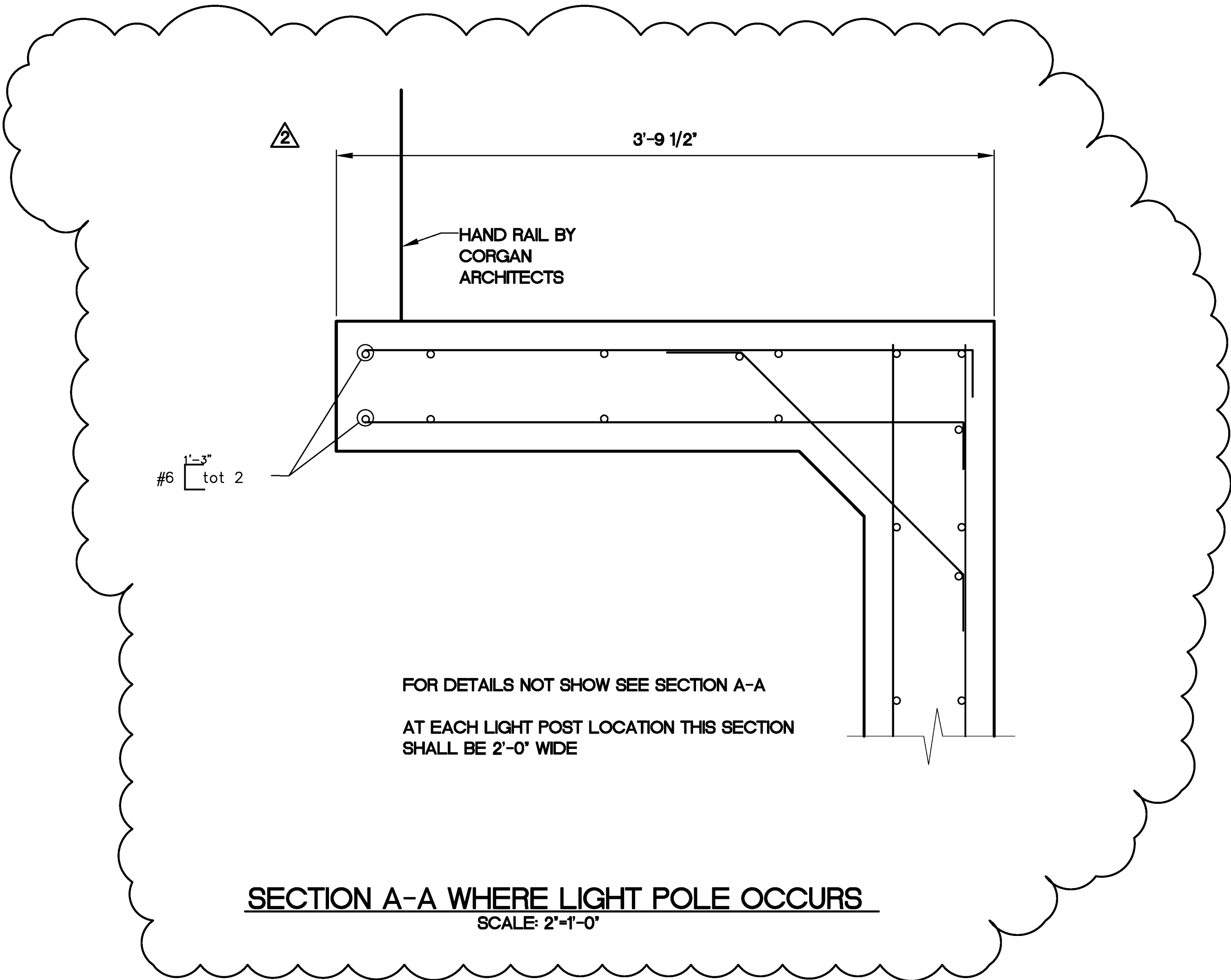
ISSUES
000 12.01.08 95% REVIEW
REVISIONS
001 08.14.2009 IFC DCN AS052
002 02.03.2010 IFC DCN AS073

TERMINAL MODERNIZATION PROGRAM
AIRSIDE CONCOURSE B PROJECT

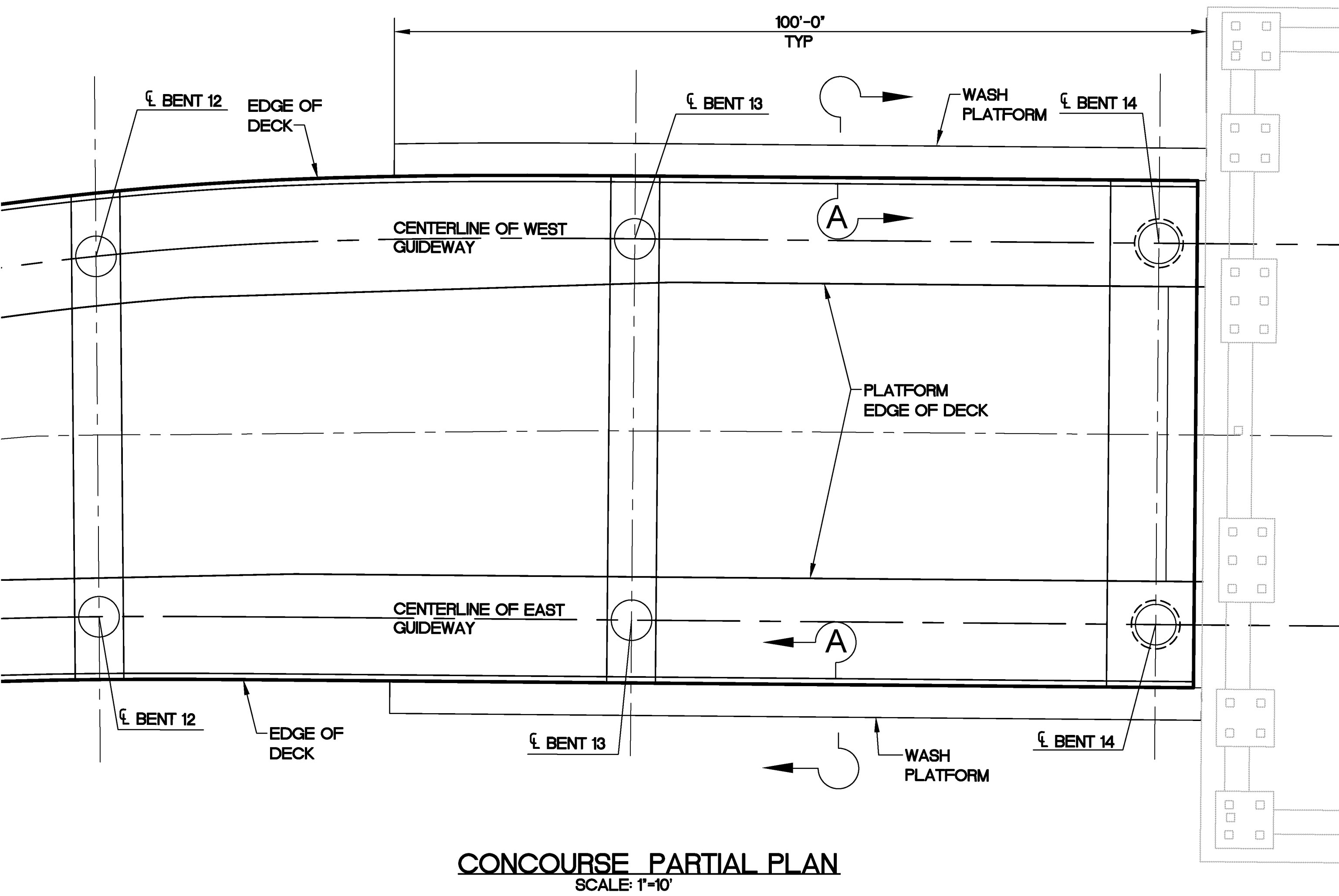
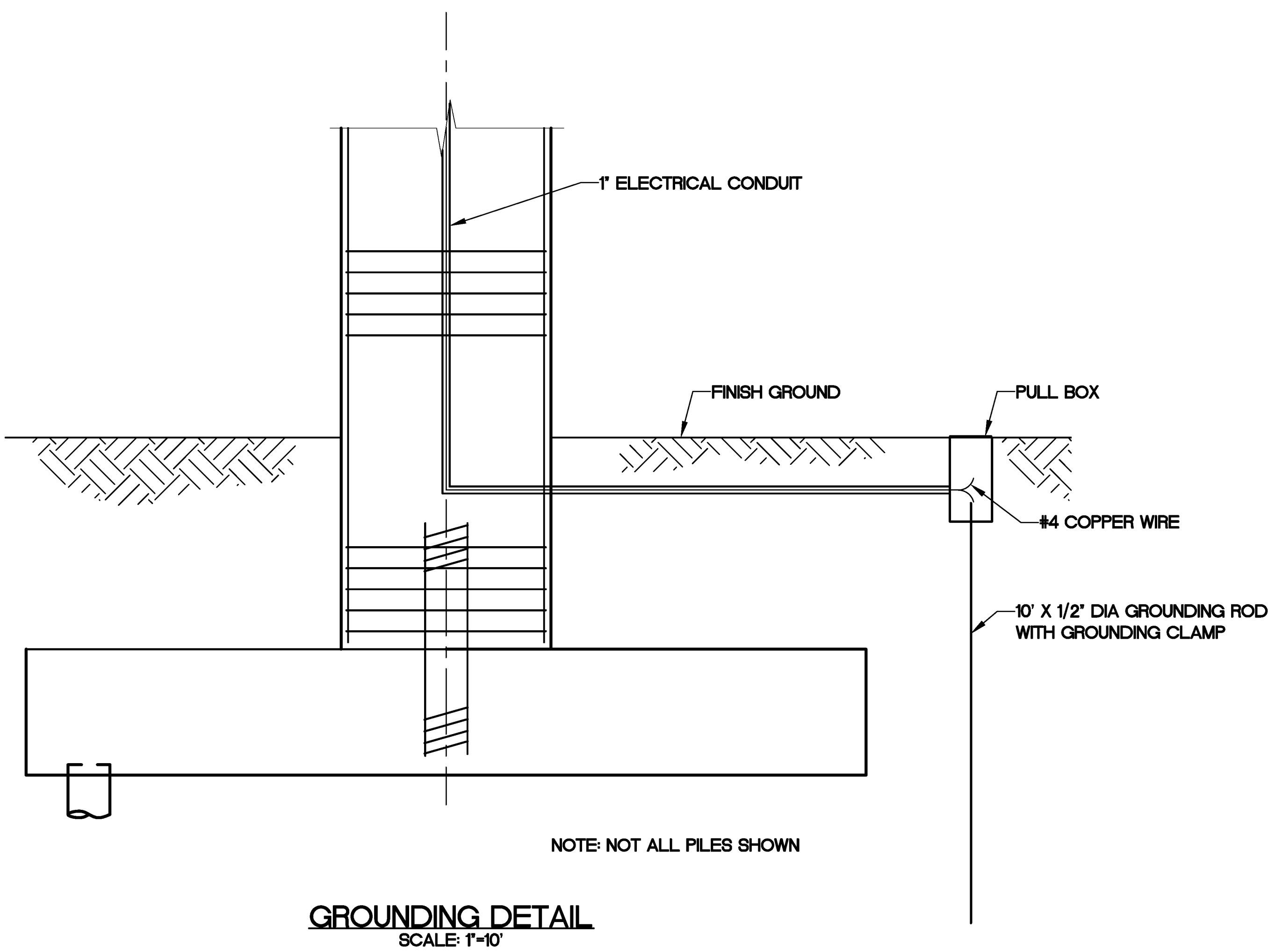
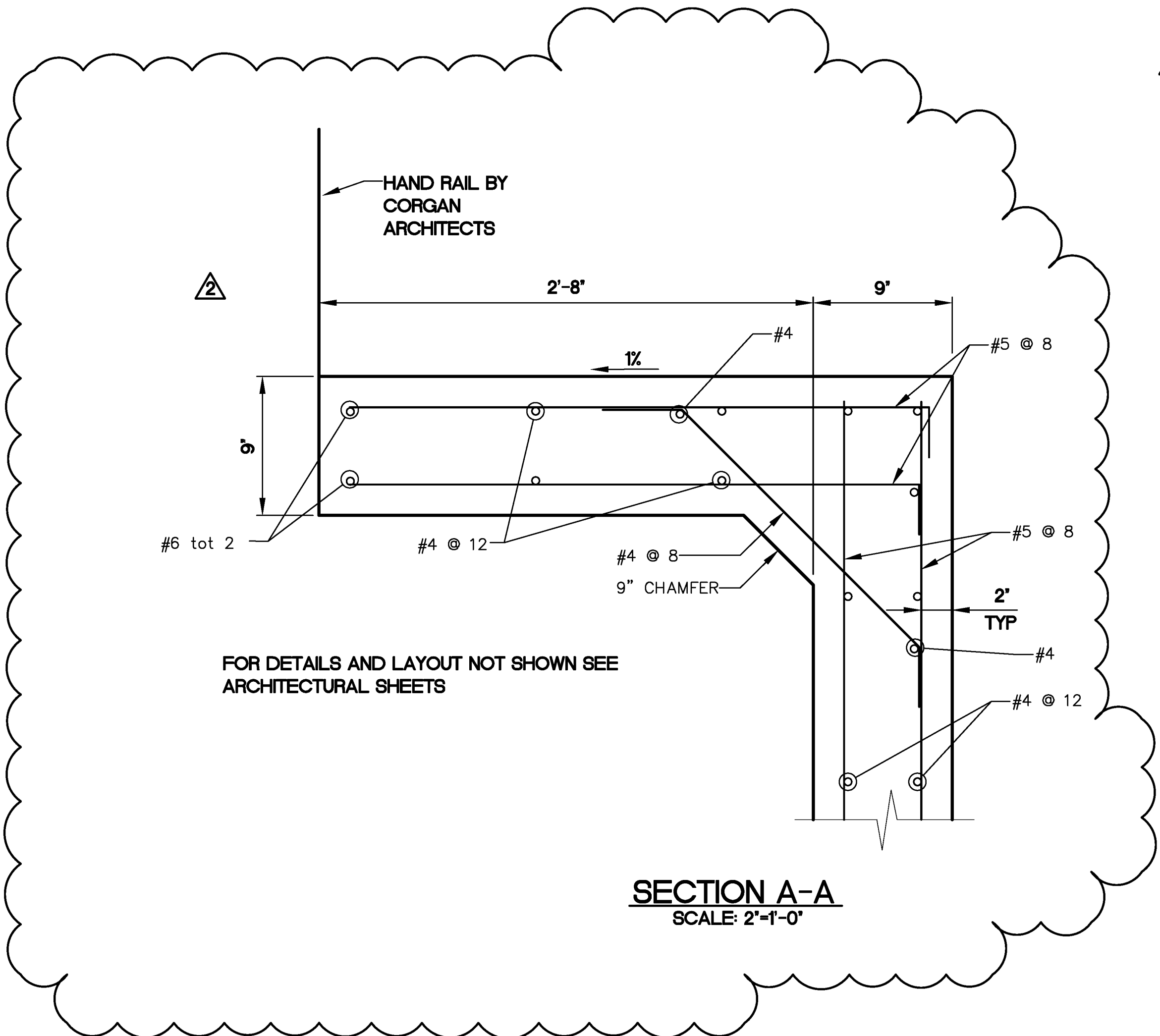


02/02/12
RECORD DRAWINGS

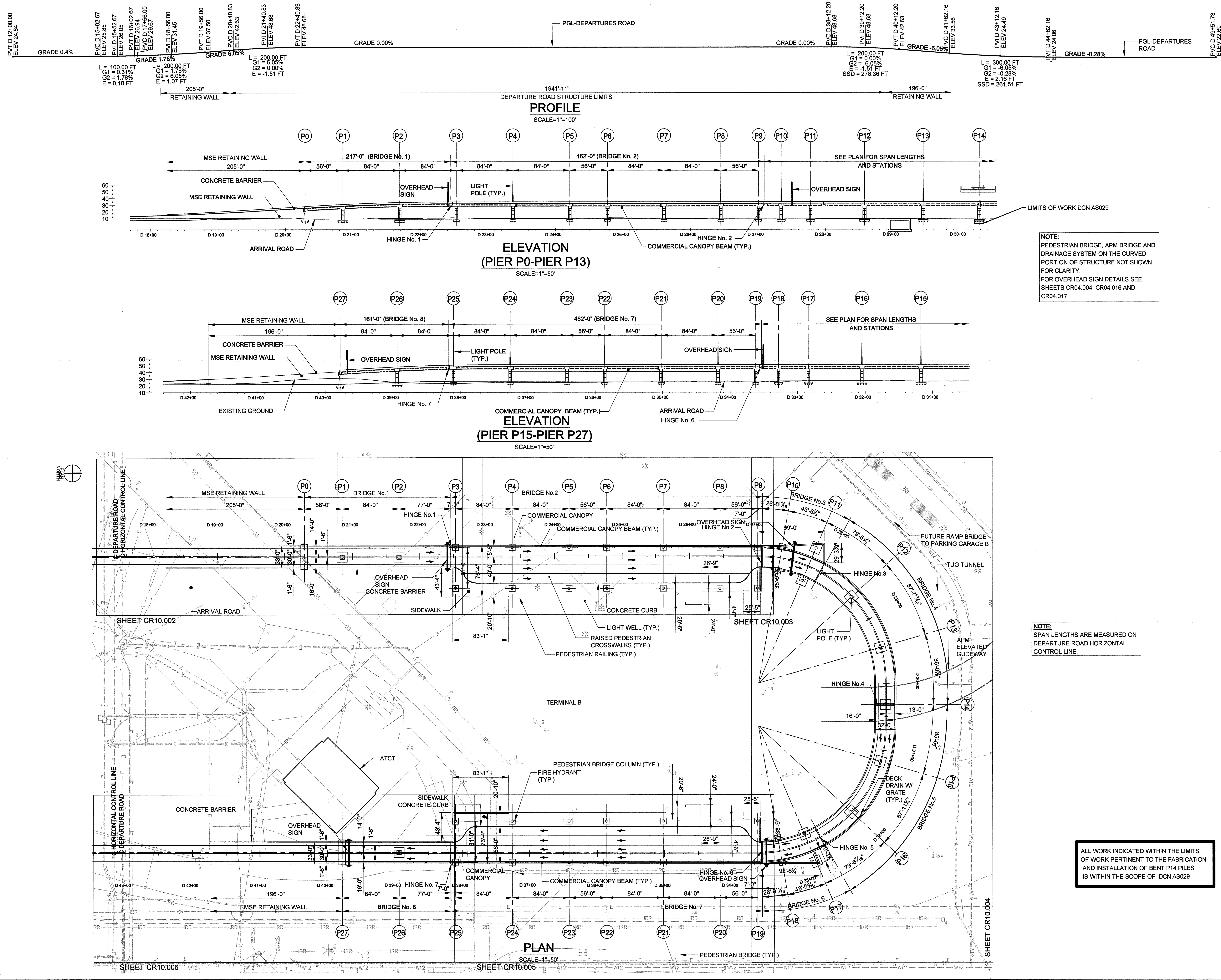
APM ELEVATED
GUIDEWAY
WASH PLATFORM
DETAILS
JOB: 05003.0000
DATE:
SHEET:
CA10.023
REVISION NO: AS-002



DELETED
DETAIL



23 March 2009 G:\Sacramento\Coran Associates\233111\SMF Terminal Modernization\16.0\DRAWINGS\02 - DVS\A - SMF DVS\ANSI\EC.plt\16.0\CR10.001_GENERAL_PLAN.dwg
MORAN, ERIC



FENTRESS ARCHITECTS



ISSUES

000 03.16.09 95% REVIEW ISSUE

001 03.20.09 IFC DCN AS029

REVISIONS

TERMINAL MODERNIZATION PROGRAM
AIRSIDE TERMINAL B PROJECT



02/02/12
RECORD DRAWINGS

DEPARTURE ROAD
STRUCTURE
GENERAL PLAN

JOB: 05003.0000

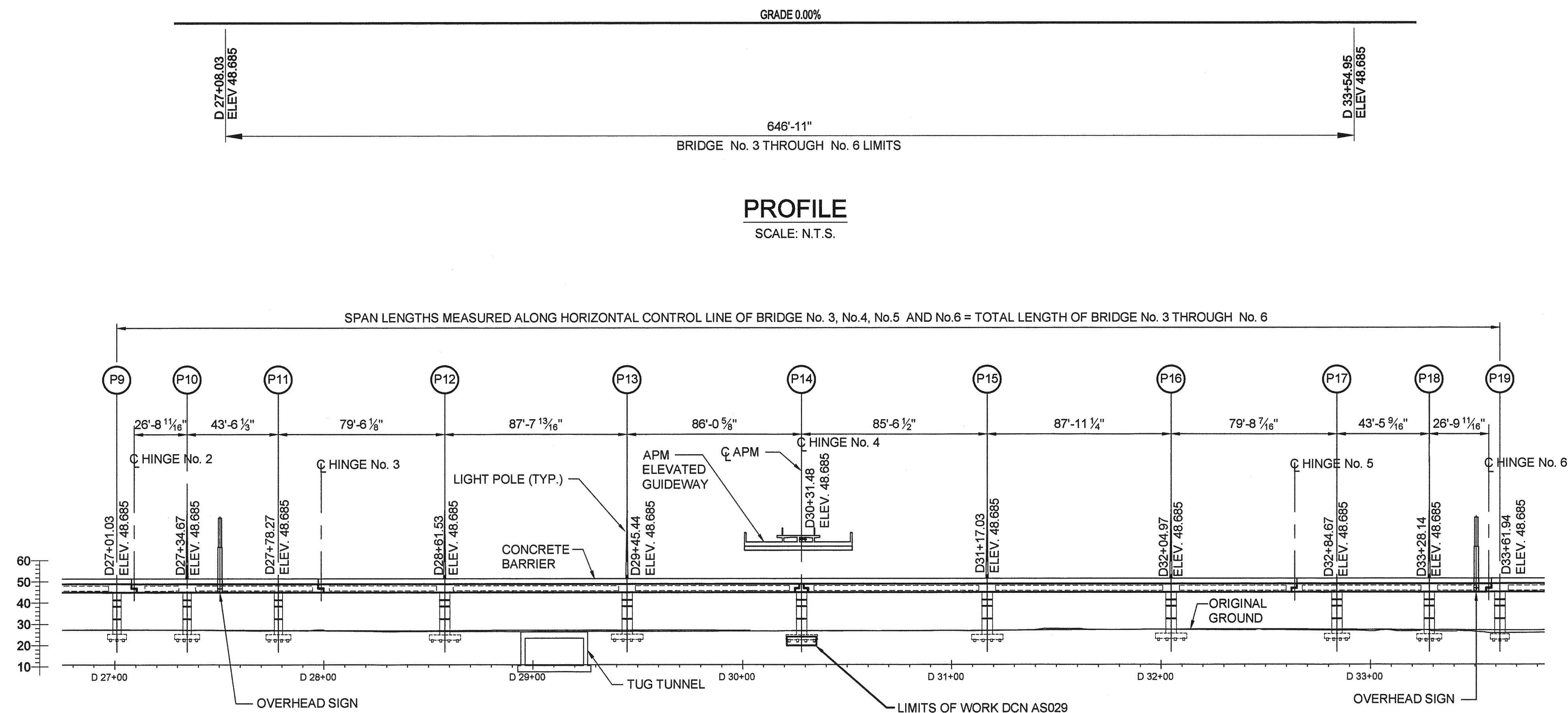
DATE: 03.20.09

SHEET:

CA11.001

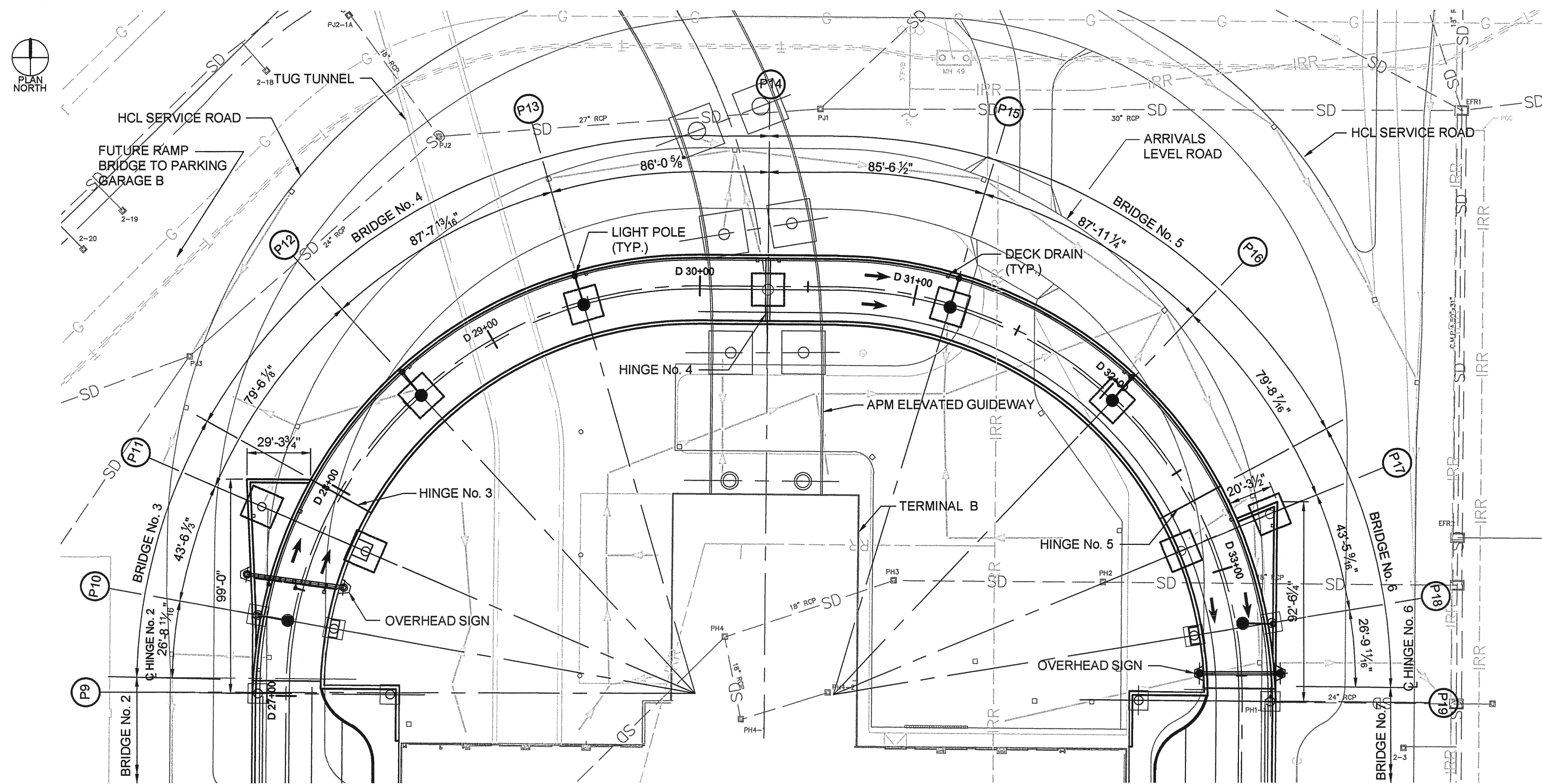
REVISION NO: AS-000

23 March 2009 G:\Sacramento\Coran Associates\233111-SMF-Terminal Modernization\16.0 DRAWINGS\02 - DVS\A - SMF DVS PLANS\IFC files 2009-03-19\CR10_002_003_004_005_006_GENERAL_PLAN.dwg MORAN, ERIC



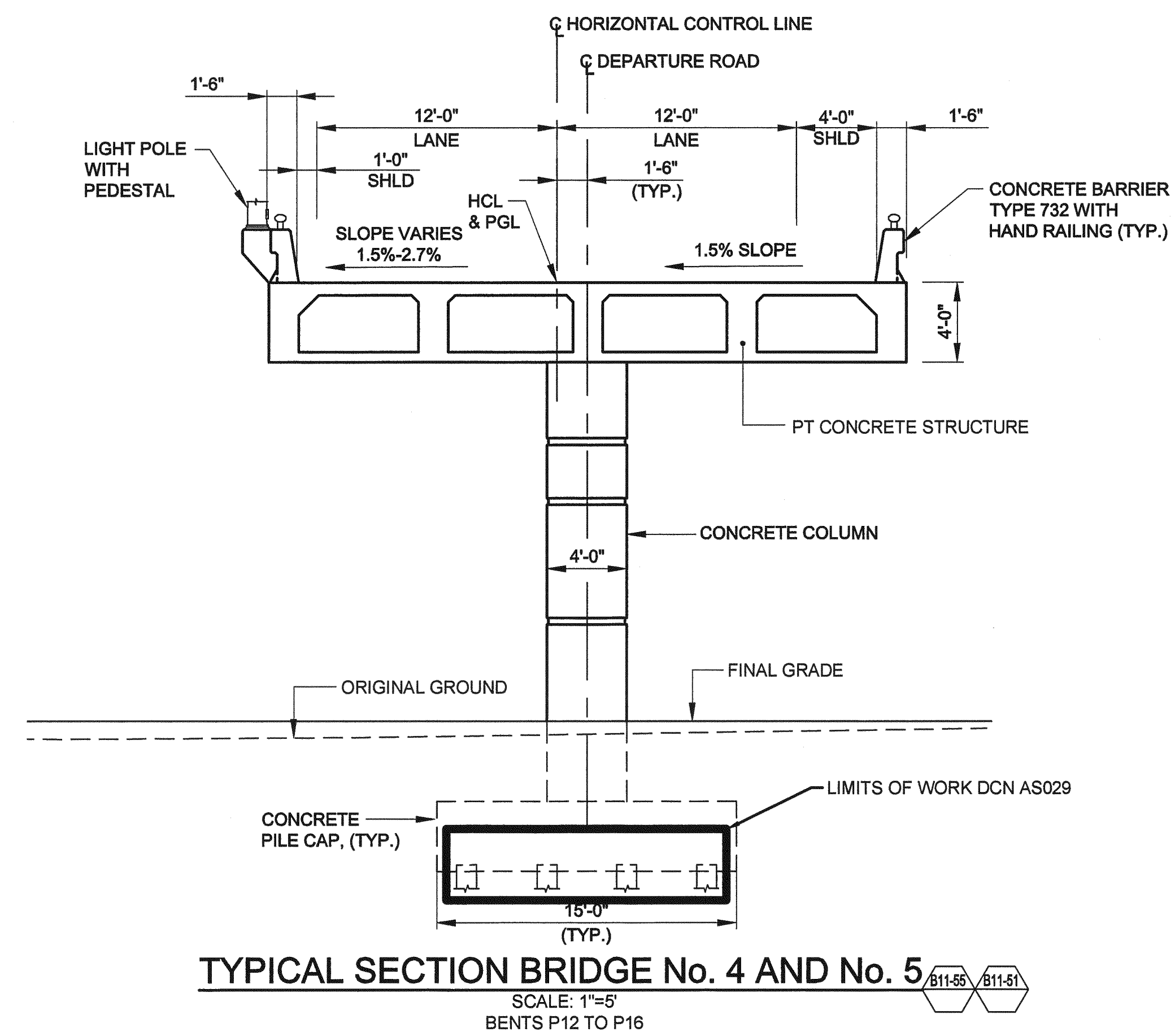
PROFILE
SCALE: N.T.S.

ELEVATION
SCALE: 1"=30'-0"

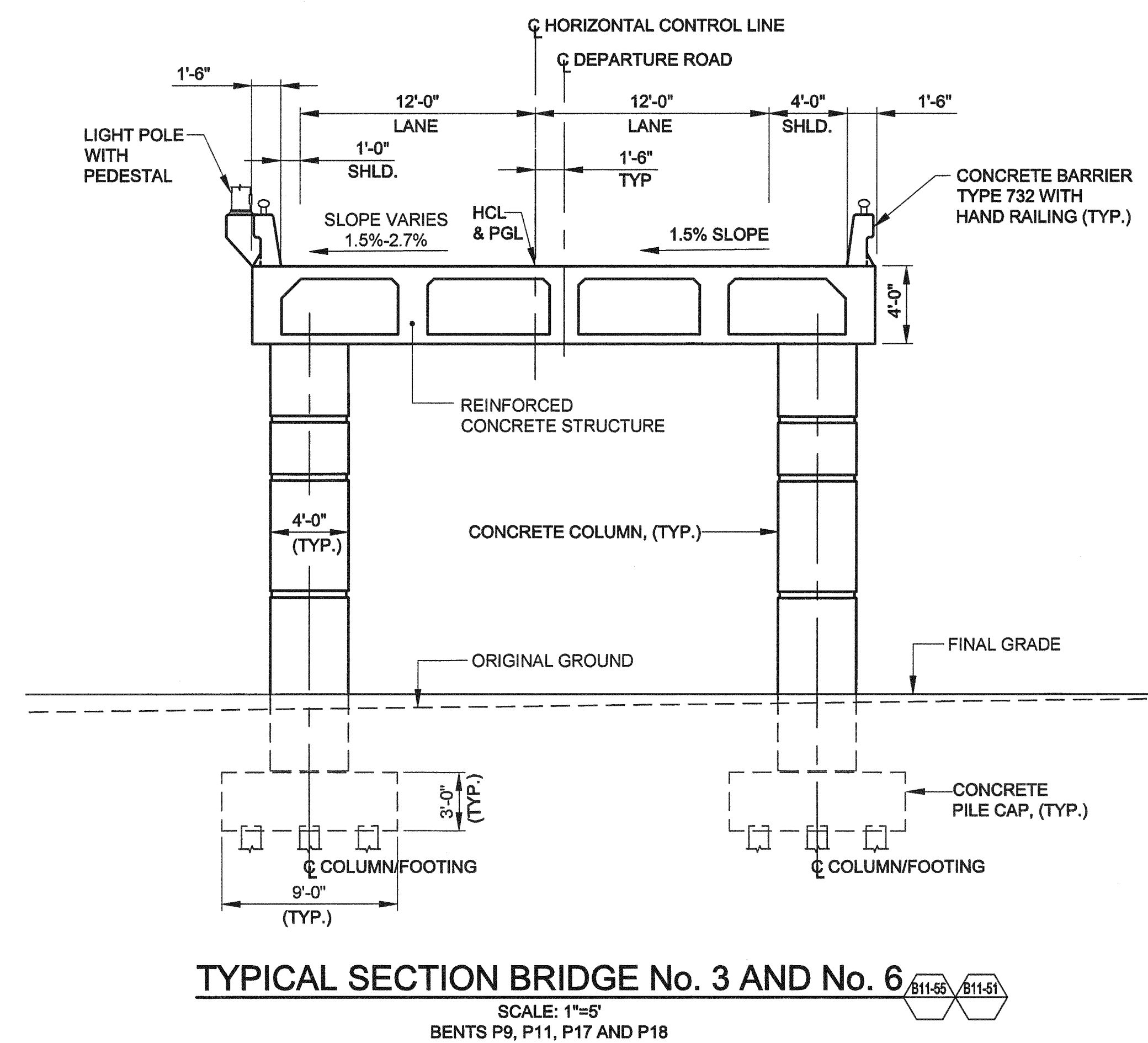


PLAN
SCALE: 1"=30'-0"

CURVE	CURVE DATA			TOTAL TANGENT (Ts)
	RADIUS (R)	DELTA (Δc)	LENGTH (Lc)	
C1	189.00'	89° 59' 58.58"	296.88'	189.00'
C2	189.00'	90° 00' 02.01"	296.88'	189.00'



TYPICAL SECTION BRIDGE No. 4 AND No. 5
SCALE: 1"=5'
BENTS P12 TO P16



TYPICAL SECTION BRIDGE No. 3 AND No. 6
SCALE: 1"=5'
BENTS P9, P11, P17 AND P18

ALL WORK INDICATED WITHIN THE LIMITS OF WORK PERTINENT TO THE FABRICATION AND INSTALLATION OF BENT P14 PILES IS WITHIN THE SCOPE OF DCN AS029



FENTRESS | ARCHITECTS



ISSUES
000 03.16.09 95% REVIEW ISSUE
001 03.20.09 IFC DCN AS029

REVISIONS

TERMINAL MODERNIZATION PROGRAM
AIRSIDE TERMINAL B PROJECT



02/02/12
RECORD DRAWINGS

DEPARTURE ROAD STRUCTURE

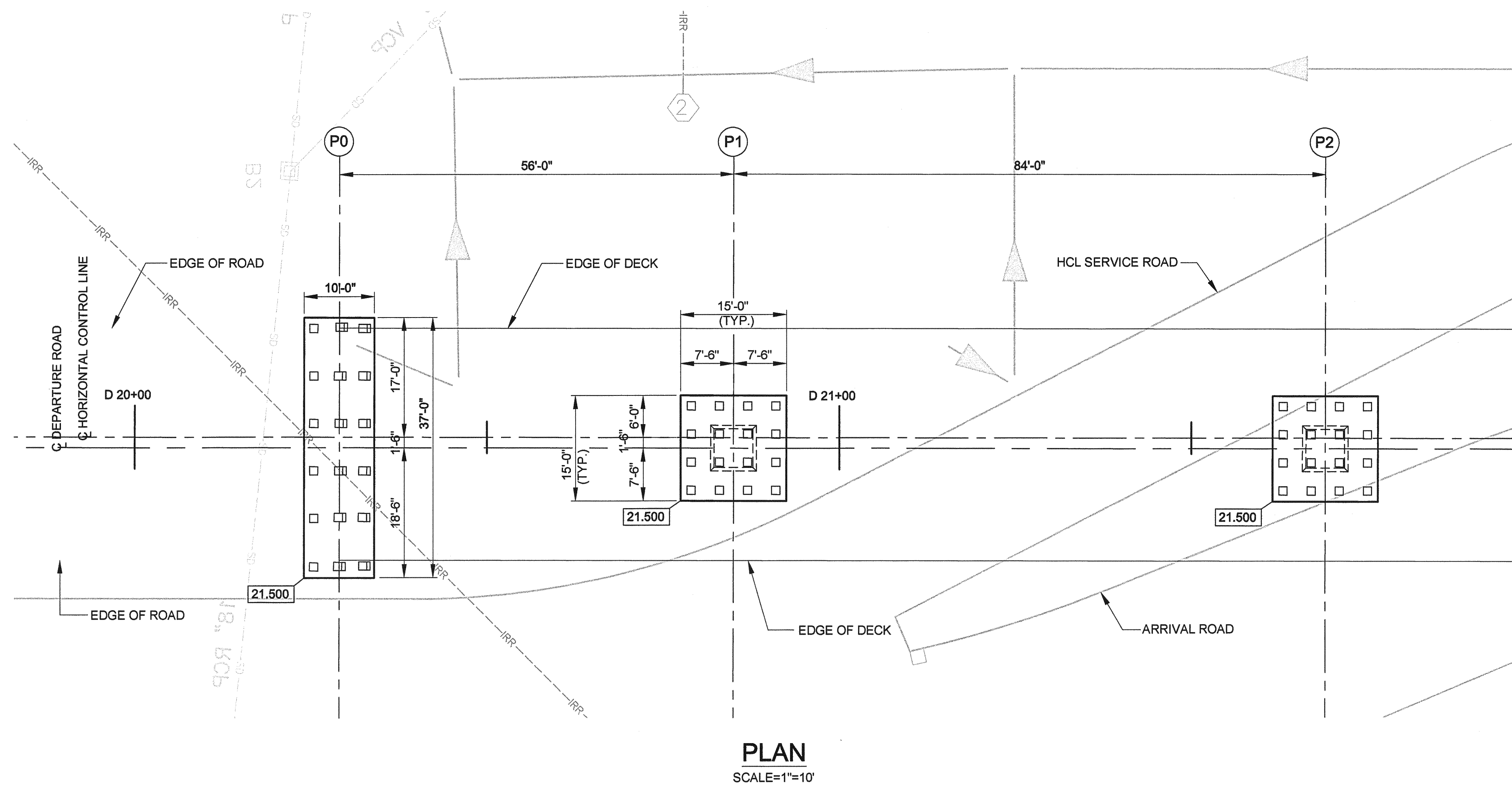
GENERAL PLAN BRIDGE No.3 TO No. 6

JOB: 05003.0000
DATE: 03.20.09

SHEET:
CA11.004

REVISION NO: AS-000

23 March 2009 G:\Sacramento\Organ Association\233114.SME-Terminal Modernization\16.0 DRAWINGS\02 - DVSIA - SME DVS PLAN\NEC plus 2009.03.19\CR10_007_009_010_014_012 FOUNDATION PLAN.dwg MORAN, ERIC



PILE DATA:

LOCATION	CLASS	DESIGN LOADING (SERVICE) (KIPS)	NOMINAL RESISTANCE (KIPS)		PILE DESIGN TIP ELEVATION (FT)	PILE LENGTH (FT)
			COMPRESSION	TENSION		
ABUT P0	200	200	400	200	-43.5	65
BENT P1	200	200	400	200	-43.5	65
BENT P2	200	200	400	200	-43.5	65
BENT P3	200	200	400	200	-43.5	65
BENT P4	200	200	400	200	-43.5	65
BENT P5	200	200	400	200	-43.5	65
BENT P6	200	200	400	200	-43.5	65
BENT P7	200	200	400	200	-43.5	65
BENT P8	200	200	400	200	-43.5	65
BENT P9	200	200	400	200	-43.5	65
BENT P10	200	200	400	200	-43.5	65
BENT P11	200	200	400	200	-43.5	65
BENT P12	200	200	400	200	-43.5	65
BENT P13	200	200	400	200	-43.5	65
BENT P14	200	200	400	200	-42.5	65
BENT P15	200	200	400	200	-42.5	65
BENT P16	200	200	400	200	-43.5	65
BENT P17	200	200	400	200	-43.5	65
BENT P18	200	200	400	200	-43.5	65
BENT P19	200	200	400	200	-43.5	65
BENT P20	200	200	400	200	-43.5	65
BENT P21	200	200	400	200	-43.5	65
BENT P22	200	200	400	200	-43.5	65
BENT P23	200	200	400	200	-43.5	65
BENT P24	200	200	400	200	-43.5	65
BENT P25	200	200	400	200	-43.5	65
BENT P26	200	200	400	200	-43.5	65
ABUT P27	200	200	400	200	-43.5	65

LIMITS OF WORK DCN AS029

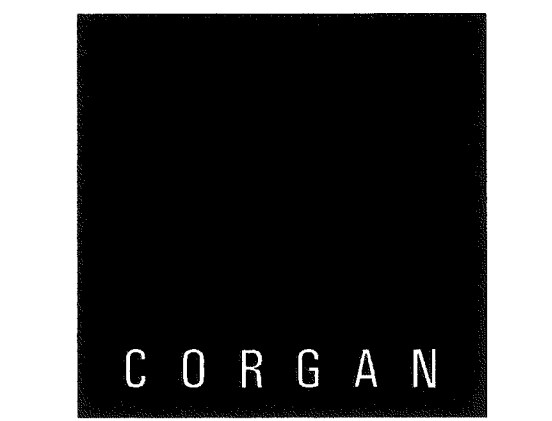
NOTES:

1. FOR BORE HOLE DATA AND ADDITIONAL GEOTECHNICAL INFORMATION SEE: WALLACE KUHLE & ASSOCIATES "SACRAMENTO INTERNATIONAL AIRPORT LANDSIDE CIVIL IMPROVEMENTS" DOCUMENT WKA No. 7521.03 (7521.03P) DATED JUNE 19, 2007 AND "REVISED DESIGN PARAMETERS" DATED AUGUST 21, 2008.

LEGEND:

- 21.500 BOTTOM FOOTING ELEVATION
- DRIVEN PILE (CLASS 200 - ALTERNATIVE 'X')
 - DRIVEN BATTERED PILE (CLASS 200 - ALTERNATIVE 'X')

ALL WORK INDICATED WITHIN THE LIMITS OF WORK PERTINENT TO THE FABRICATION AND INSTALLATION OF BENT P14 PILES IS WITHIN THE SCOPE OF DCN AS029



FENTRESS ARCHITECTS



ISSUES
000 03.16.09 95% REVIEW ISSUE
001 03.20.09 IFC DCN AS029

REVISIONS

TERMINAL MODERNIZATION PROGRAM
AIRSIDE TERMINAL B PROJECT



02/02/12
RECORD DRAWINGS

DEPARTURE ROAD
STRUCTURE

FOUNDATION PLAN
BRIDGE No.1

JOB: 05003.0000
DATE: 03.20.09

SHEET:
CA11.007
REVISION NO: AS-000

0. Sacramento/Corgan Associates 03111-SMF Terminal Modernization 16.0 DRAWINGS 02 - DETAILED - SMF DTS PLANS/PG. 2029-01-19 0210.027_BENT DETAILS_BRL_005.dwg Mar 23, 2009 11:54am mcd45030



FENTRESS | ARCHITECTS



ISSUES

000 03.16.09 95% REVIEW ISSUE
001 03.20.09 IFC DCN AS029

REVISIONS

TERMINAL MODERNIZATION PROGRAM
AIRSIDE TERMINAL B PROJECT

Central
Terminal B
Sacramento International Airport

02/02/12
RECORD DRAWINGS

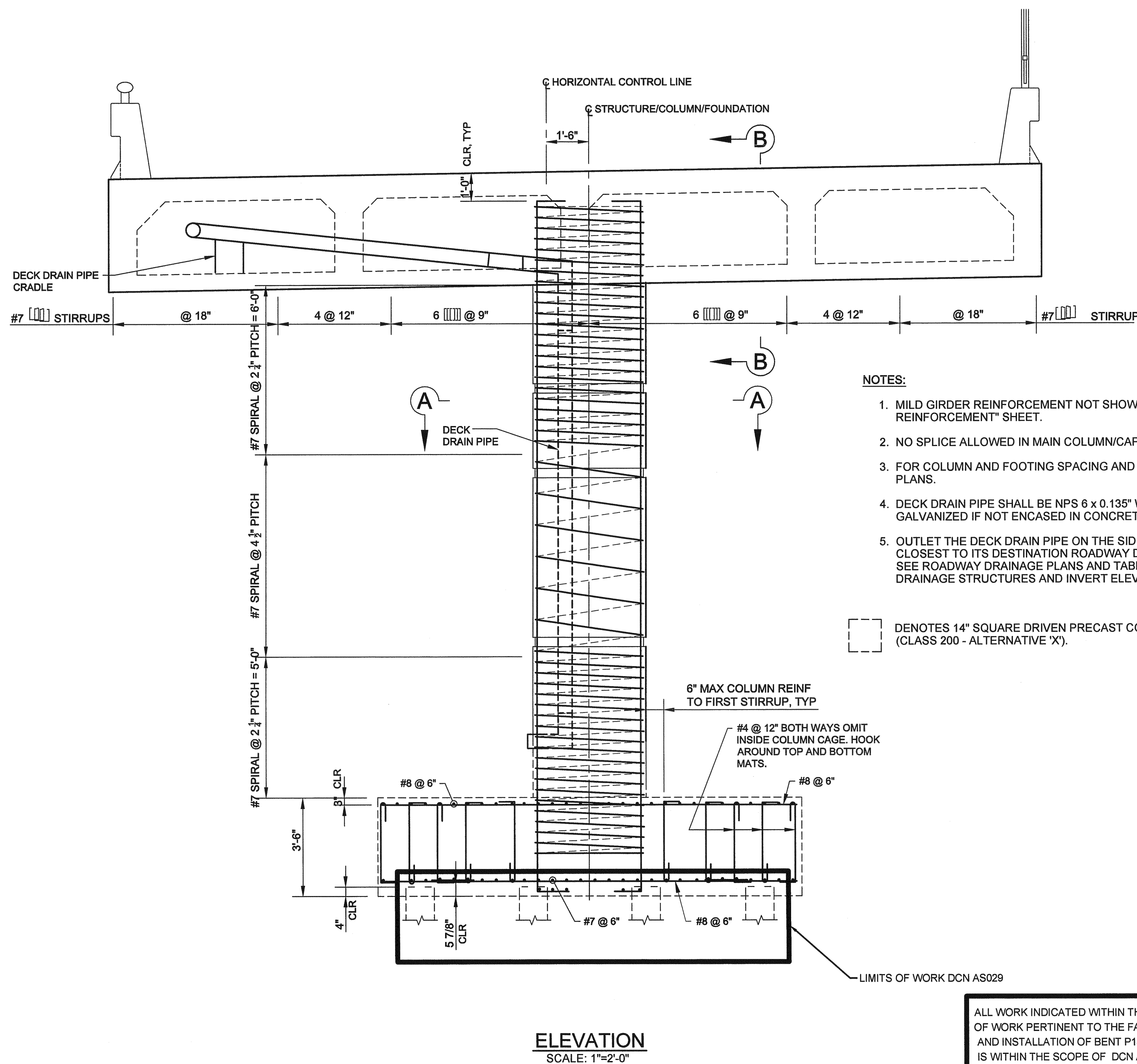
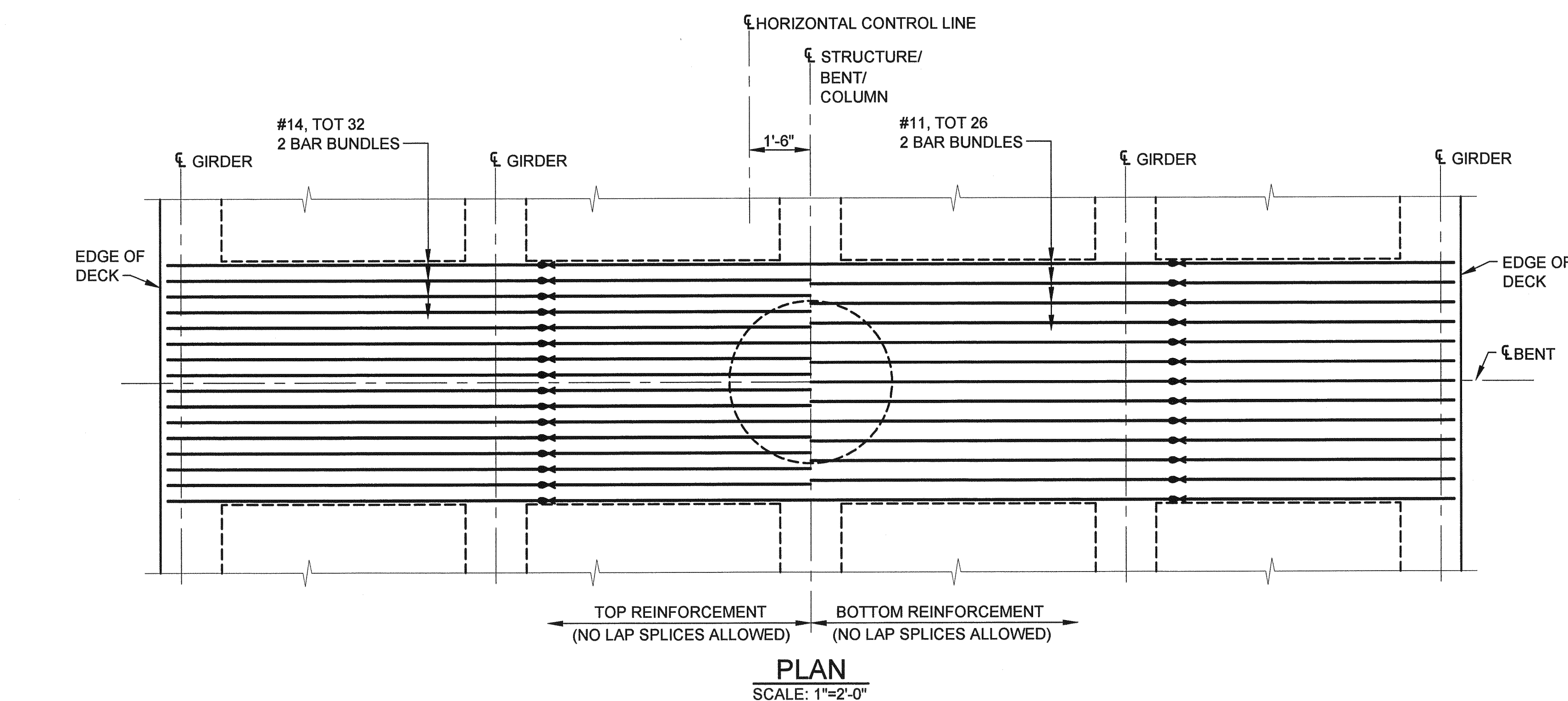
DEPARTURE ROAD
STRUCTURE

BENT DETAILS No.3
BRIDGE No.4/No.5

JOB: 05003.0000
DATE: 03.20.09

SHEET:
CA11.022

REVISION NO: AS-000



NOTES:

1. MILD GIRDER REINFORCEMENT NOT SHOWN, SEE "MILD REINFORCEMENT" SHEET.
2. NO SPLICE ALLOWED IN MAIN COLUMN/CAP REINFORCEMENT.
3. FOR COLUMN AND FOOTING SPACING AND LOCATIONS, SEE GENERAL PLANS.
4. DECK DRAIN PIPE SHALL BE NPS 6 x 0.135" WELDED STEEL PIPE AND GALVANIZED IF NOT ENCASED IN CONCRETE.
5. OUTLET THE DECK DRAIN PIPE ON THE SIDE OF THE COLUMN CLOSEST TO ITS DESTINATION ROADWAY DRAINAGE STRUCTURE. SEE ROADWAY DRAINAGE PLANS AND TABLES FOR LOCATIONS OF DRAINAGE STRUCTURES AND INVERT ELEVATIONS OF PILES.

□ DENOTES 14" SQUARE DRIVEN PRECAST CONCRETE PILE (CLASS 200 - ALTERNATIVE 'X').

ALL WORK INDICATED WITHIN THE LIMITS OF WORK PERTINENT TO THE FABRICATION AND INSTALLATION OF BENT P14 PILES IS WITHIN THE SCOPE OF DCN AS029

