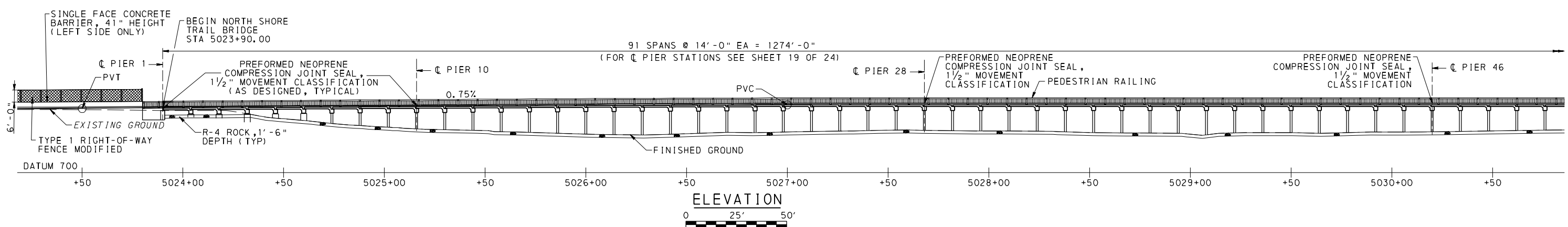
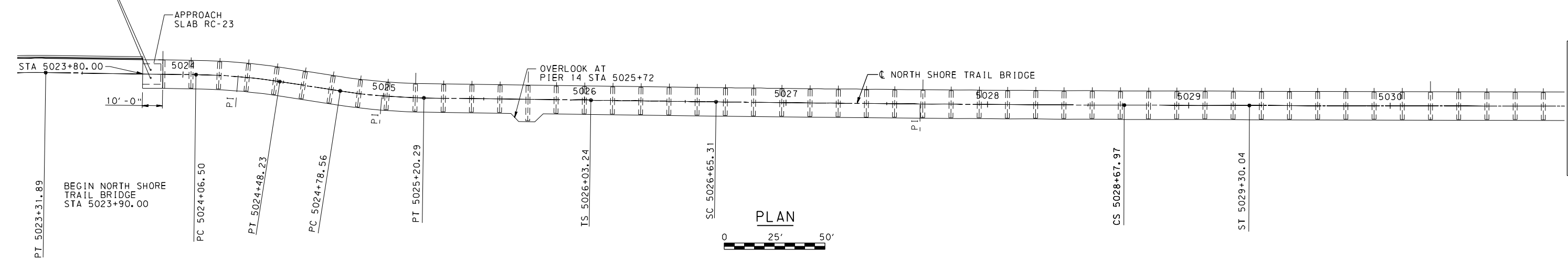
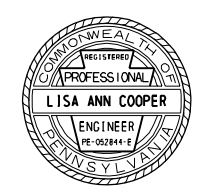


AUTO BARRIER POST,
SEE CITY OF PITTSBURGH
STANDARD PC-510



Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
ALLEGHENY COUNTY
SR 0028, SECTION A50
SEG 0050 OFF 0221 NB - SEG 0050 OFF 1489 SB
SR 0028 STA 154+34.75 TO STA 167+02.99
NORTH SHORE TRAIL STA 5023+90.00
TO STA 5036+64.00
NORTH SHORE TRAIL BRIDGE
CONCEPTUAL ALTERNATE



PREPARED BY:
JOHNSON, MIRMIRAN & THOMPSON
1550 CORAOPOLIS HEIGHTS ROAD,
SUITE 440
MOON TOWNSHIP, PA 15108

ALUMINUM PEDESTRIAN RAILING	BC-716M	7-24-06
REINFORCEMENT BAR FABRICATION DETAILS	BC-736M	1-21-03
STEEL PILE TIP REINFORCEMENTS & SPLICES	BC-757M	1-21-03
PREFORMED NEOPRENE COMPRESSION SEAL JOINT	BC-766M	7-20-07
CLASSIFICATION OF EARTHWORK	RC-10M	4-15-04
BRIDGE APPROACH SLABS	RC-23M	7-20-07
SINGLE FACE CONCRETE BARRIER	RC-58M	3-30-06
CITY OF PITTSBURGH STANDARDS OF CONSTRUCTION, FENCING AND POSTS	PC-510	7-01-93
DESCRIPTION	DWG. NO.	APP. DATE

SUPPLEMENTAL DRAWINGS

SIGNATURE AND DATE

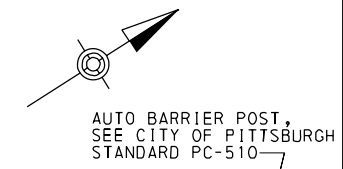
RECOMMENDED _____
DISTRICT BRIDGE ENGINEER

SHEET 1 OF 5
BPAA 02-2665A

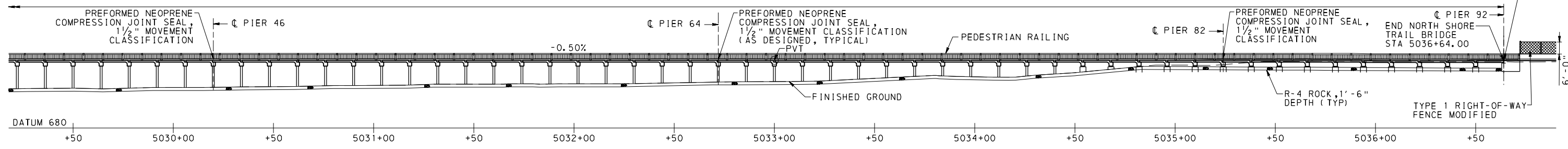
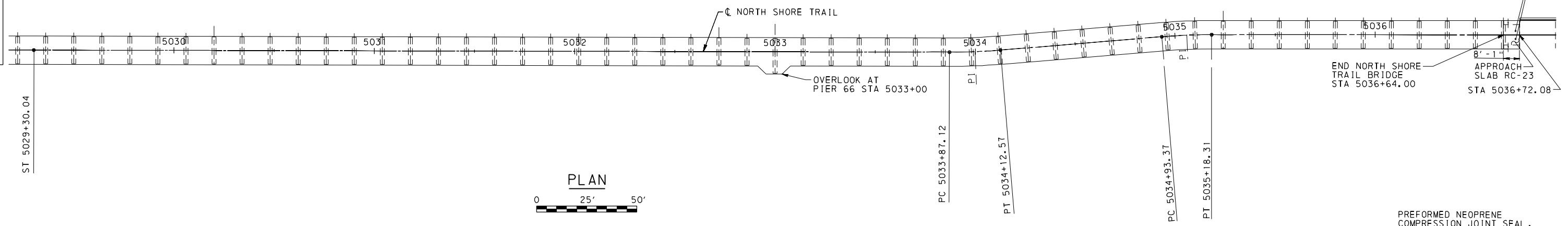
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DES:REP DWG:REP
CKD:LAC CKD:LAC

SEE SHEET 2 OF 5

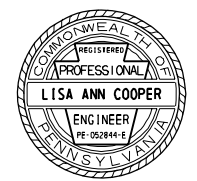


SEE SHEET 1 OF 5



ELEVATION
0 25' 50'

Mark	Description	By	Chk' d.	App' d.	Date
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COMMONWEALTH OF PENNSYLVANIA
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CONCEPTUAL ALTERNATE

RECOMMENDED _____ SHEET 2 OF 5
BPAA 02-2665A

FILE: M:\Structure\sr28\Drawings\A-50_GP&E_02.dgn
DATE: 11/3/2009

DES: REP DWG: REP
CKD: LAC CKD: LAC

GENERAL NOTES

PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH SPECIFICATIONS PUBLICATION 408/2007, AND THE CONTRACT SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS:

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, U.S. UNITS, THIRD EDITION 2004 AND AS SUPPLEMENTED BY DESIGN MANUAL, PART 4, SEPTEMBER 2007 EDITION.

DESIGN IS IN ACCORDANCE WITH THE LRFD METHOD.

DESIGN LIVE LOADS:

H-5 TRUCK OR PEDESTRIAN LOADING (85 LB/FT²)

GENERAL:

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFE ERECTION OF ALL STRUCTURES, PROVIDE ALL NECESSARY BRACING AND SUPPORTS. CONSTRUCTION ACTIVITY WILL NOT BE ALLOWED OUTSIDE THE RIGHT-OF-WAY.

PROVIDE 2" CONCRETE COVER ON REINFORCEMENT BARS, EXCEPT AS NOTED.

USE CLASS A CEMENT CONCRETE IN PIERS AND FOOTINGS.

PROVIDE GRADE 60 REINFORCING STEEL BARS THAT MEET THE REQUIREMENTS OF ASTM A 706/A 706M. DO NOT WELD GRADE 60 REINFORCING STEEL BARS UNLESS SPECIFIED. GRADE 40 REINFORCING STEEL BARS MAY BE SUBSTITUTED WITH A PROPORTIONAL INCREASE IN CROSS SECTIONAL AREA, IF APPROVED BY THE CHIEF BRIDGE ENGINEER.

USE EPOXY-COATED REINFORCEMENT BARS IN PRECAST DECK SEGMENTS AND CURBS.

GALVANIZED REINFORCING STEEL BARS MAY BE SUBSTITUTED FOR EPOXY COATED REINFORCING STEEL BARS AT NO ADDITIONAL COST TO THE DEPARTMENT.

WELDING OF REINFORCEMENT BARS DURING FABRICATION OR CONSTRUCTION IS NOT PERMITTED UNLESS SPECIFIED.

RAKE-FINISH ALL HORIZONTAL CONSTRUCTION JOINTS, EXCEPT AS INDICATED.

CHAMFER EXPOSED CONCRETE EDGES 1" BY 1", EXCEPT AS NOTED.

ALL DIMENSIONS SHOWN ARE HORIZONTAL, EXCEPT AS NOTED.

SUPERSTRUCTURE DIMENSIONS SHOWN ARE FOR A NORMAL TEMPERATURE OF 68 DEGREES F.

IF SUBSURFACE CONDITIONS ARE ENCOUNTERED THAT DIFFER SIGNIFICANTLY FROM THOSE REPORTED ON THE TEST BORING LOGS AND INDICATED ON THE DRAWINGS DURING CONSTRUCTION, THE DEPARTMENT SHALL BE NOTIFIED IMMEDIATELY SO THAT THE PROPOSED FOUNDATIONS CAN BE REVIEWED AND/OR REVISED ACCORDINGLY.

GROUND EACH ALUMINUM RAILING SECTION IN ACCORDANCE WITH PUBLICATION 408, SECTION 624.3(F) WITH THE FOLLOWING EXCEPTION: CLAMP A MINIMUM AWG NO. 1 SOLID ALUMINUM CONDUCTOR TO THE GROUND ROD AND THE ALUMINUM RAILING USING CLAMPS RATED FOR COPPER/ALUMINUM CABLE INSTALLATION. INSTALL GROUNDING INSTALLATION AT BOTH ENDS OF THE RAILING.

UTILITY NOTES:

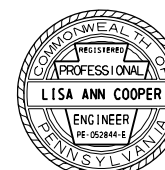
COORDINATE, LOCATE, AND CONDUCT ALL WORK RELATED TO PUBLIC AND PRIVATE UTILITIES IN ACCORDANCE WITH PUBLICATION 408/2007, SECTIONS 105.06 AND 107.12.

APPROXIMATE QUANTITIES
NORTH SHORE TRAIL BRIDGE BPAA 02-2665A, ALTERNATE DESIGN

ITEM NO	ITEM	UNIT	QUANTITY
8712-0002	ALTERNATE TRAIL BRIDGE STRUCTURE, BPAA 02-2665A (1)	LS	LS
(*)	CLASS 3 EXCAVATION	CY	347
(*)	CLASS A CEMENT CONCRETE	CY	268
(*)	PEDESTRIAN RAILING	LF	2595
(*)	TYPE A PRECAST SEGMENT (3)	EA	79
(*)	TYPE B PRECAST SEGMENT (3)	EA	5
(*)	TYPE C PRECAST SEGMENT (3)	EA	5
(*)	TYPE D PRECAST SEGMENT (3)	EA	1
(*)	TYPE E PRECAST SEGMENT (3)	EA	1
(*)	PREFORMED NEOPRENE COMPRESSION JOINT SEAL, 1 1/2" MOVEMENT	LF	145
(*)	PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES (PENETRATING SEALERS, REINFORCED CONCRETE SUBSTRUCTURE SURFACES)	SY	1,411
(*)	PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES (PENETRATING SEALERS, BRIDGE SUPERSTRUCTURE)	SY	2,006
(*)	REINFORCEMENT BARS	LB	44,300
(*)	DESIGN OF ALTERNATE STRUCTURE	LS	1
AND			
9005-0400	STEEL BEAM TEST PILES, HP10X57 (2)	LS	1
AND			
1005-1102	STEEL BEAM BEARING PILES, HP10X57	LF	3,713
AND			
0204-0001	CLASS 2 EXCAVATION	CY	1,110
0850-0022	ROCK, CLASS R-4	SY	2,218
0623-0051	SINGLE FACE CONCRETE BARRIER, 41" HEIGHT	LF	824
0623-0121	END TRANSITION, SINGLE FACE CONCRETE BARRIER, 41" HEIGHT	EACH	2
0309-0320	SUPERPAVE ASPHALT MIXTURE DESIGN, HMA BASE COURSE, PG 64-22, <0.3 MILLION ESALS, 25.0 MM MIX, 3" DEPTH	SY	725
0409-0375	SUPERPAVE ASPHALT MIXTURE DESIGN, HMA WEARING COURSE, PG 64-22, <0.3 MILLION ESALS, 9.5 MM MIX, 1" DEPTH, SRL-L	SY	725
0505-0001	BRIDGE APPROACH SLAB	SY	21
4212-0003	GEOTEXTILE, CLASS 2, TYPE B MODIFIED	SY	2,772
4350-0106	SUBBASE 6" DEPTH (NO. 2A) MODIFIED	SY	725
4624-0001	RIGHT OF WAY FENCE, TYPE 1 MODIFIED	LF	800
4624-0300	END POSTS FOR TYPE 1 RIGHT-OF-WAY FENCE MODIFIED	EACH	4
4624-0500	PULL POSTS FOR TYPE 1 RIGHT-OF-WAY FENCE MODIFIED	EACH	1
9000-0002	AUTO BARRIER POST (1)	EACH	4
9005-0600	PREDRILLING FOR UNFORESEEN OBSTRUCTION, EARTH DRILLING (1)	LF	442
9005-0610	PREDRILLING FOR UNFORESEEN OBSTRUCTION, OBSTRUCTION DRILLING (1)	LF	44
9005-0620	PILE EXTRACTION AND REDRIVING (1)	EACH	8
9005-0713	MOBILIZATION FOR PREDRILLING FOR UNFORESEEN OBSTRUCTIONS, BPAA 02-2665 (1)	DOLLA	7,300
9469-0100	LONGITUDINAL JOINT SEALING FOR NEW PAVEMENT SURFACES	LF	460
9624-0008	RIGHT OF WAY FENCE, TYPE 1, 8' HEIGHT	LF	160
9624-0308	END POSTS FOR TYPE 1 RIGHT-OF-WAY FENCE, 8' HEIGHT	EACH	2

- (1) SEE CONTRACT SPECIAL PROVISIONS
- (*) QUANTITIES LISTED FOR LUMP SUM ITEMS ARE FOR INFORMATION ONLY
- (2) LUMP SUM INCLUDES 30 TEST PILES (705 LF).
- (3) PLAIN BEARING PAD MATERIAL AND CLOSED CELL FOAM ARE INCIDENTAL TO THE PRECAST SEGMENTS

Mark	Description	By	Chk'd.	App'd.	Date
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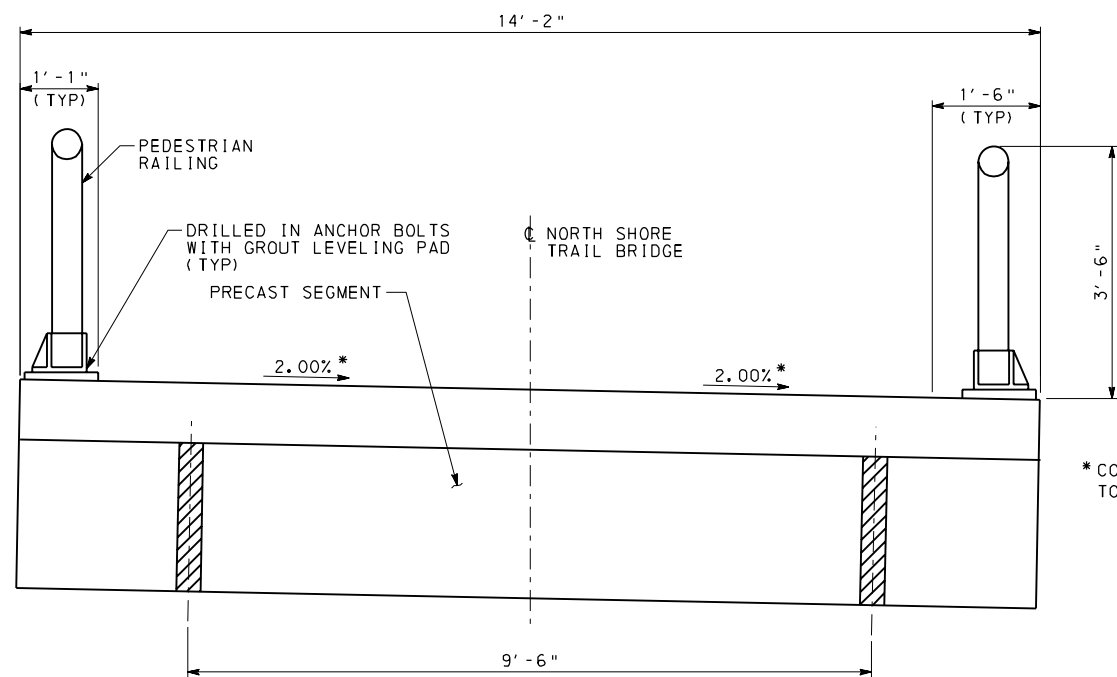


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CONCEPTUAL ALTERNATE

RECOMMENDED _____ SHEET 3 OF 5
BPAA 02-2665A

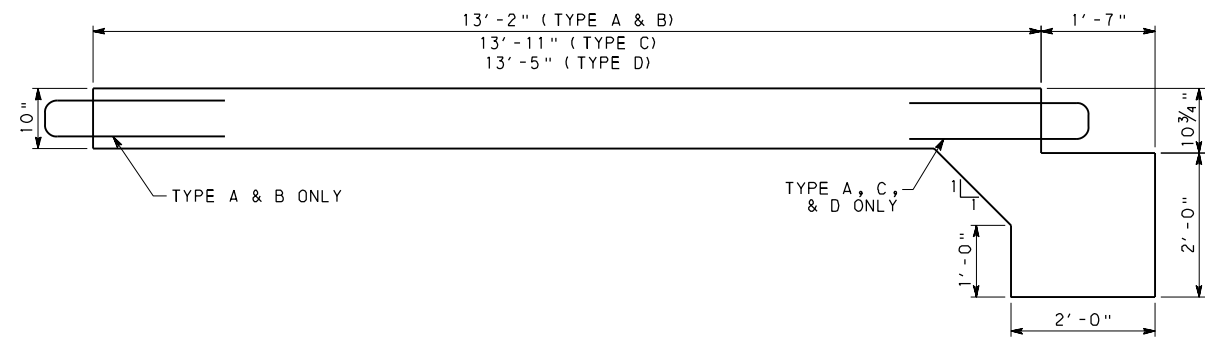
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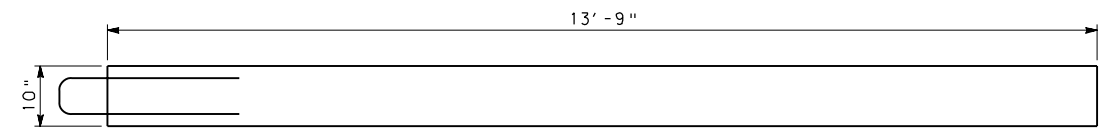
PROPOSED TYPICAL SECTION

6" 0" 6" 12" 18"
SCALE: 3/4" = 1'-0"



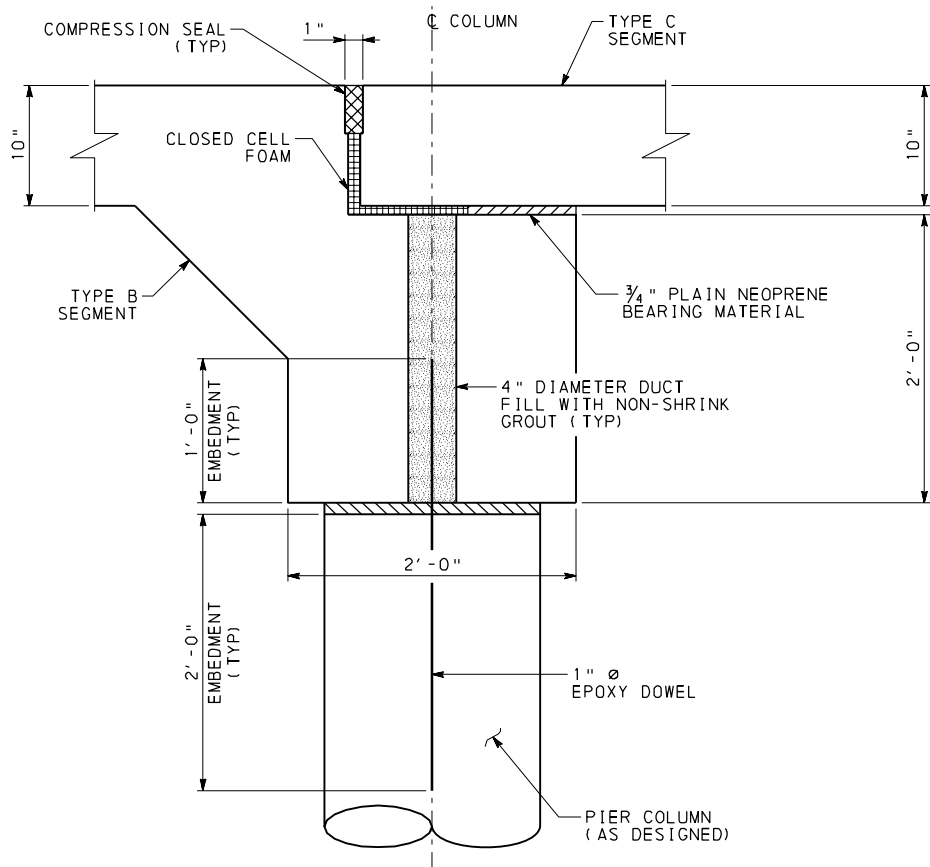
PROPOSED TYPICAL PRECAST SEGMENT - TYPE A THROUGH D

6" 0" 6" 12" 18"
SCALE: 3/4" = 1'-0"



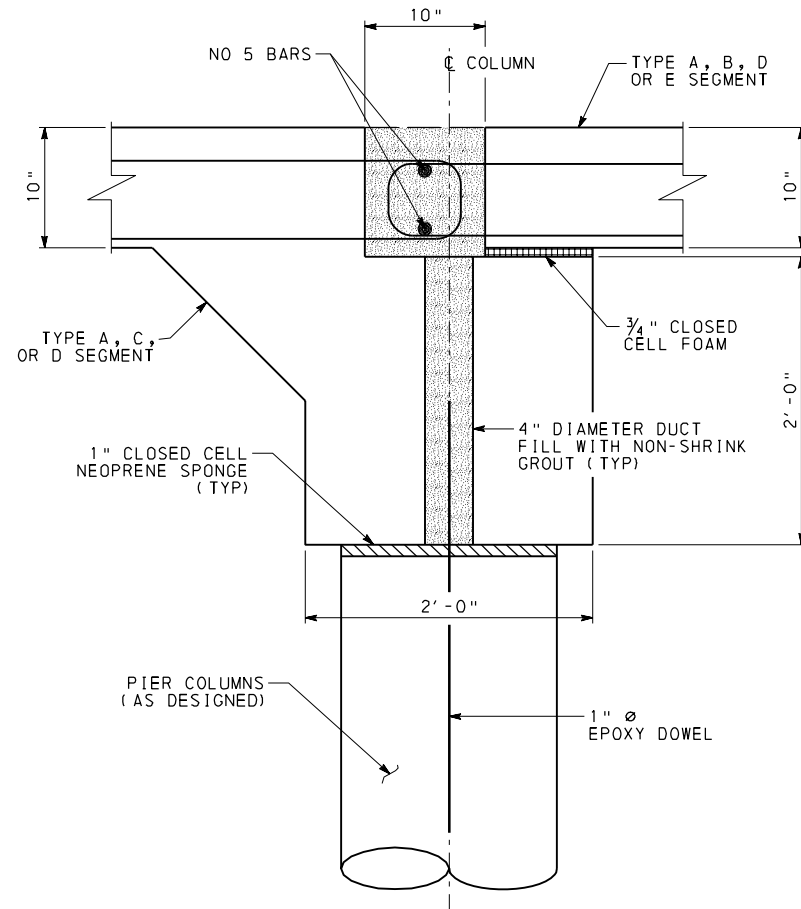
PROPOSED TYPICAL PRECAST SEGMENT - TYPE E

6" 0" 6" 12" 18"
SCALE: 3/4" = 1'-0"



PROPOSED TYPICAL EXPANSION JOINT

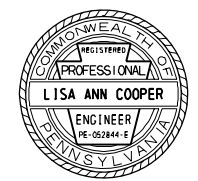
(SIMILAR TO AS-DESIGNED)
1' 0 1' 2'
SCALE: 1/2" = 1'-0"



PROPOSED TYPICAL FIXED JOINT

1' 0 1' 2'
SCALE: 1/2" = 1'-0"

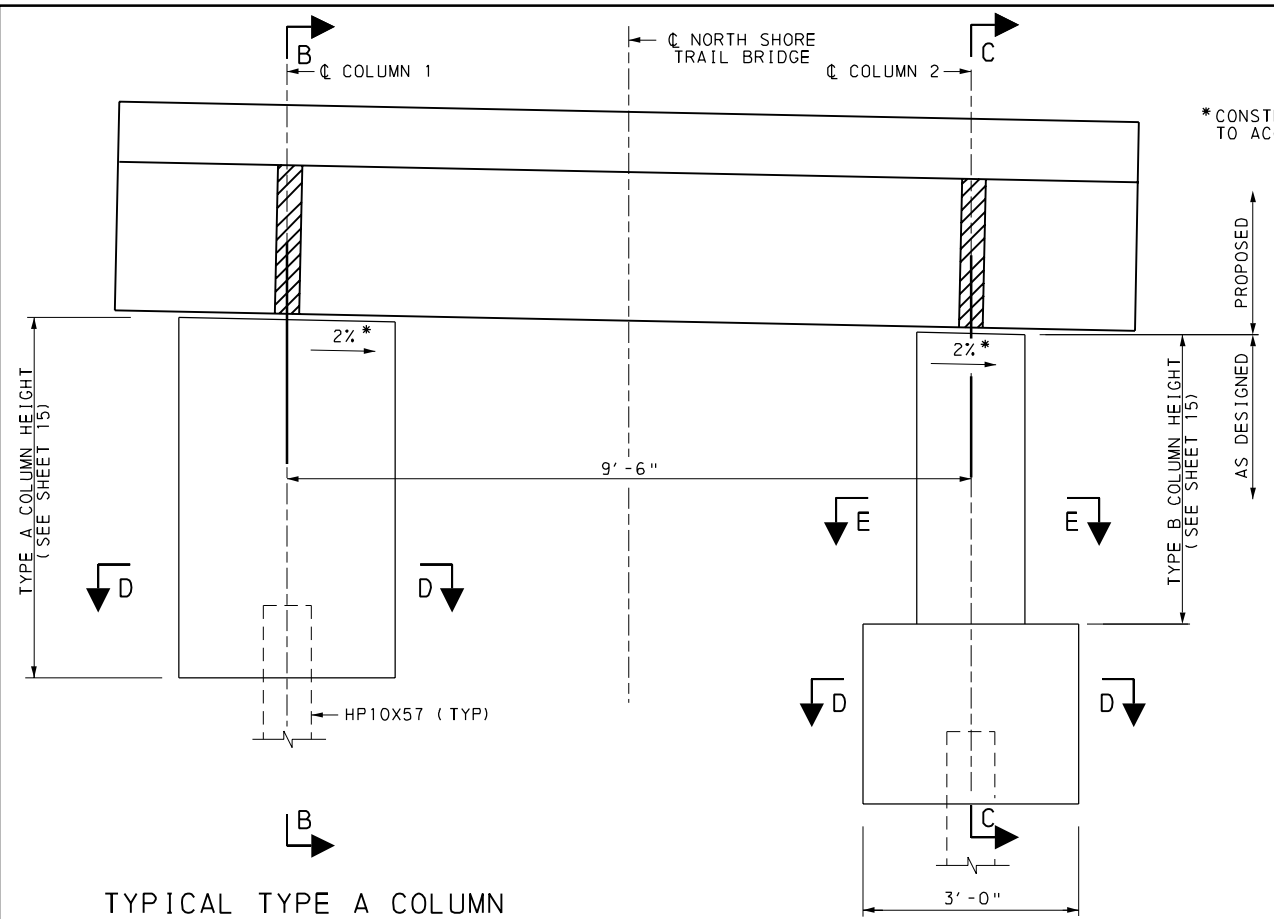
Mark	Description	By	Chk'd.	App'd.	Date
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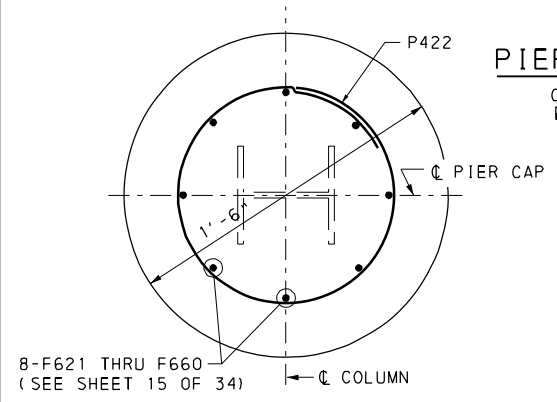
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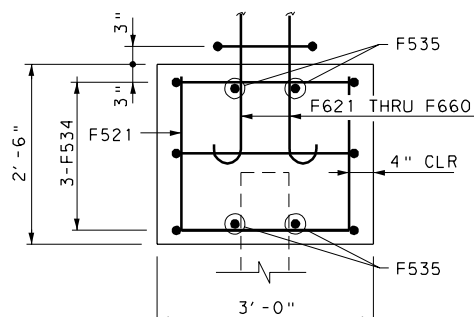


TYPICAL TYPE A COLUMN

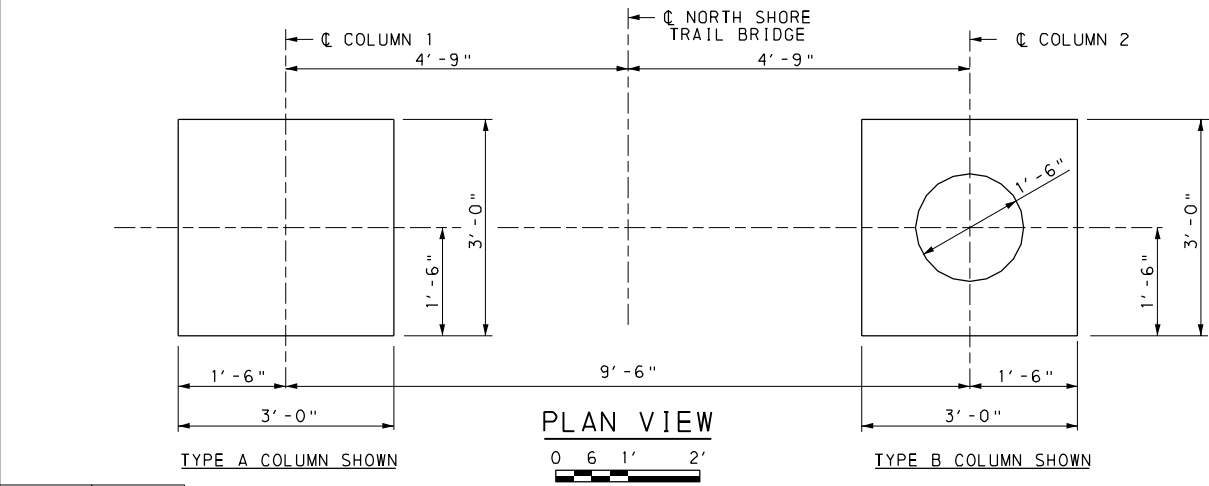
TYPICAL TYPE B COLUMN



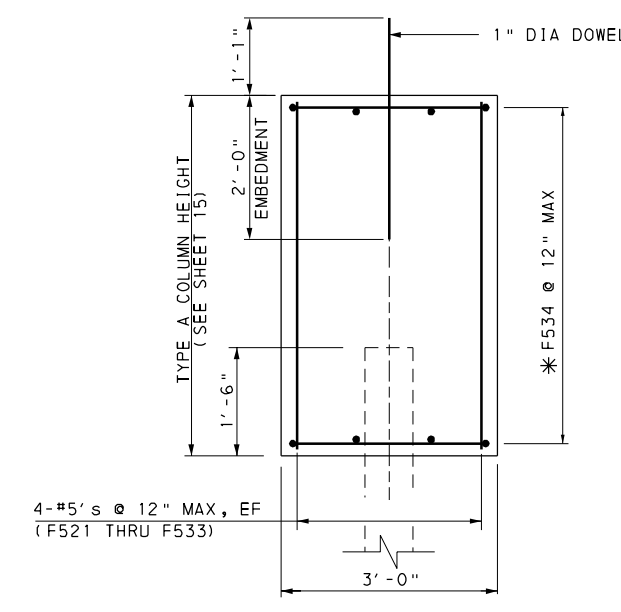
SECTION E-E



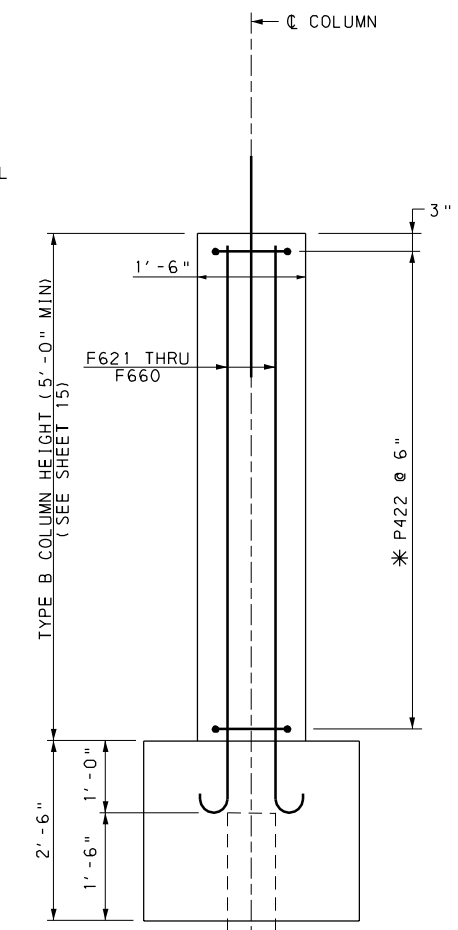
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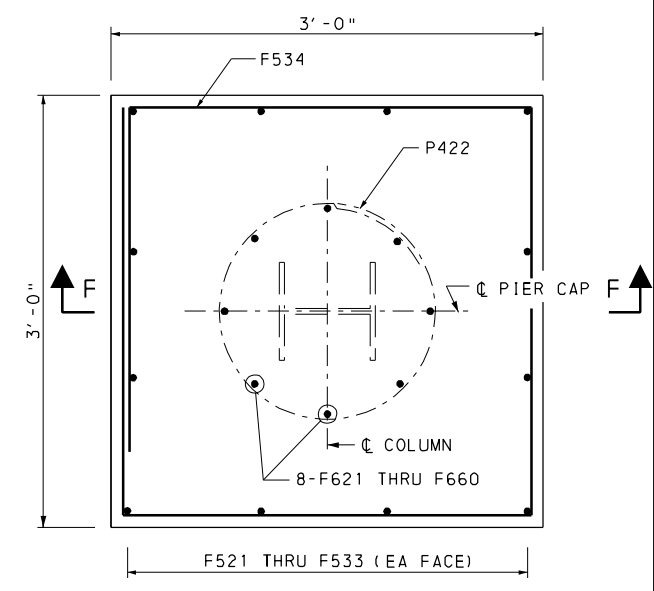
PLAN VIEW



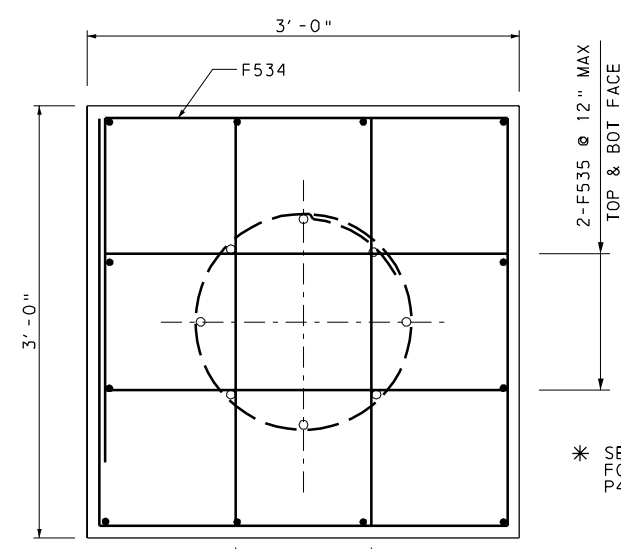
SECTION B-B



SECTION C-C



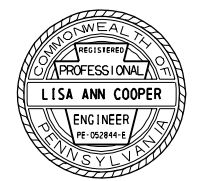
SECTION D-D



COLUMN PLAN VIEW

* SEE TABLE ON SHEET 15 OF 34 FOR COLUMN HEIGHT, NUMBER OF P422 AND NUMBER OF F534

Mark	Description	By	Chk'd.	App'd.	Date
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RECOMMENDED _____ SHEET 5 OF 5

BPAA 02-2665A

FILE: M:\S\Truct\sr28\Drawings\A-50.pier.dgn
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