

A-00122618

PLAN PREPARATION
DESIGNER BUCHART HORN, INC.

DISTRICT	COUNTY	TOWNSHIP	BOROUGH	ROUTE	SECTION	TOTAL SHEETS
11-0	ALLEGHENY	SHALER				12

ECMS: 27787

**COUNTY OF ALLEGHENY
PITTSBURGH PENNSYLVANIA
DEPARTMENT OF PUBLIC WORKS**

ALSO INCLUDED

TRAFFIC CONTROL PLAN	1 SHEETS
EROSION & SEDIMENT POLLUTION CONTROL PLAN	4 SHEETS
STRUCTURE PLAN	46 SHEETS
CROSS SECTIONS	7 SHEETS

DESIGN DRAWINGS
FOR
CONSTRUCTION
OF

EAST PENNVIEW STREET

IN ALLEGHENY COUNTY

FROM STA. 27+50.00 TO STA. 31+50.00 LENGTH 216.00 FT. 0.041 MI.

PUC APPLICATION DOCKET NUMBER A-00122618

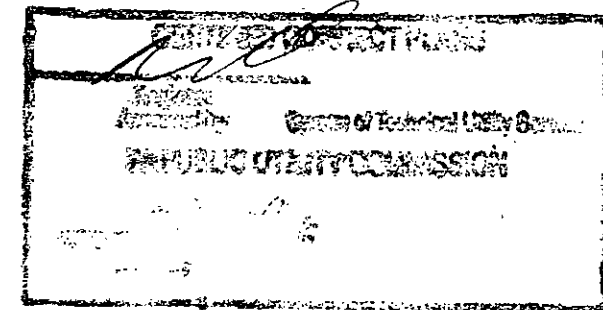
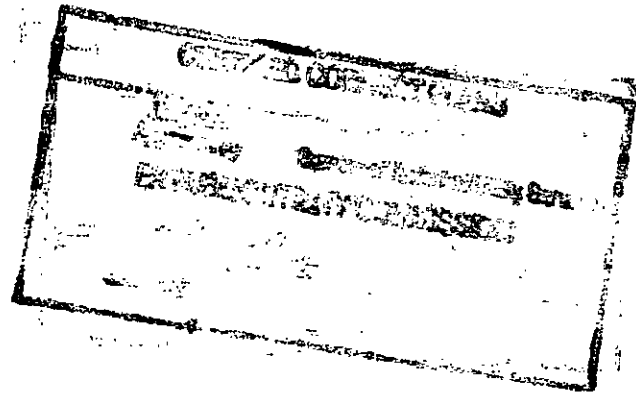
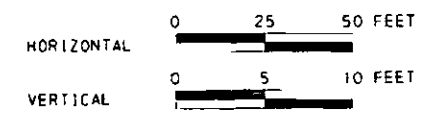
**DOCUMENT
FOLDER**

PUBLIC UTILITY COMMISSION

APR 19 2016

TECHNICAL SERVICES

RAIL SECTION



DESIGN DESIGNATION

HIGHWAY CLASSIFICATION - URBAN LOCAL ROAD
ROADWAY TYPOLOGY - LOCAL
DESIGN SPEED - 25 MPH
PAVEMENT WIDTH - 22'-0"
SHOULDER WIDTH - 6'-0"

TRAFFIC DATA

CURRENT ADT - 4,234 (2016)
DESIGN YEAR ADT - 5,166 (2036)
DHV- 465
D - 50%
T - 5%

APPROVED
COMMONWEALTH OF PENNSYLVANIA

RECOMMENDED: MARCH 22, 2016 DATE
DISTRICT EXECUTIVE: [Signature]

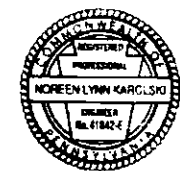
APPROVED
ALLEGHENY COUNTY
DEPARTMENT OF PUBLIC WORKS

PROJECT MANAGER: Michael Bally 3/22/16 DATE
CHIEF BRIDGE ENGINEER: Richard J. Connor 3/22/16 DATE
DEPUTY DIRECTOR-ENGINEERING: [Signature] 3/22/16 DATE
DIRECTOR: [Signature] 3/22/16 DATE

APPROVED
BY THE COUNTY MANAGER
OF ALLEGHENY COUNTY

1/15/2016 5084-16
DATED THAT AUTHORIZED THE ADVERTISEMENT
OF THIS PROJECT FOR CONSTRUCTION

Prepared By:
BUCHART-HORN, INC.
2200 LIBERTY AVE, SUITE 300
PITTSBURGH, PA 15222



Noreen Lynn Kargolski
PROJECT MANAGER
DATE: 3/17/2016

County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWINGS

FOR
REPLACEMENT
OF
PINE CREEK BRIDGE NO. II
EAST PENNVIEW STREET
TOWNSHIP OF SHALER

PIII-02II

DES. MLK	DRN. BEH	CHK. JAS	26048
DATE 2/16	SCALE AS NOTED	SHEET 1 OF 11	

J:\PROJECTS\10516010\pucway\COMSTV\Fire CRT111a.cdw

RECORD OF EXISTING ROAD TYPES

LIMIT OF WORK ADJ TO STA 27+50.00	20' OF 6" ASPHALT ON 20' OF 6" SUBBASE
STA 27+50.00 TO STA 29+50.00	20' OF 6" ASPHALT ON 20' OF 6" SUBBASE
STA 29+50.00 TO STA 30+15.00	14' ASPHALT ON THRU GIRDER BRIDGE
STA 30+15.00 TO STA 31+50.00	22' OF 6" ASPHALT ON 22' OF 6" SUBBASE
LIMIT OF WORK ADJ TO STA 31+50.00	22' OF 6" ASPHALT ON 22' OF 6" SUBBASE

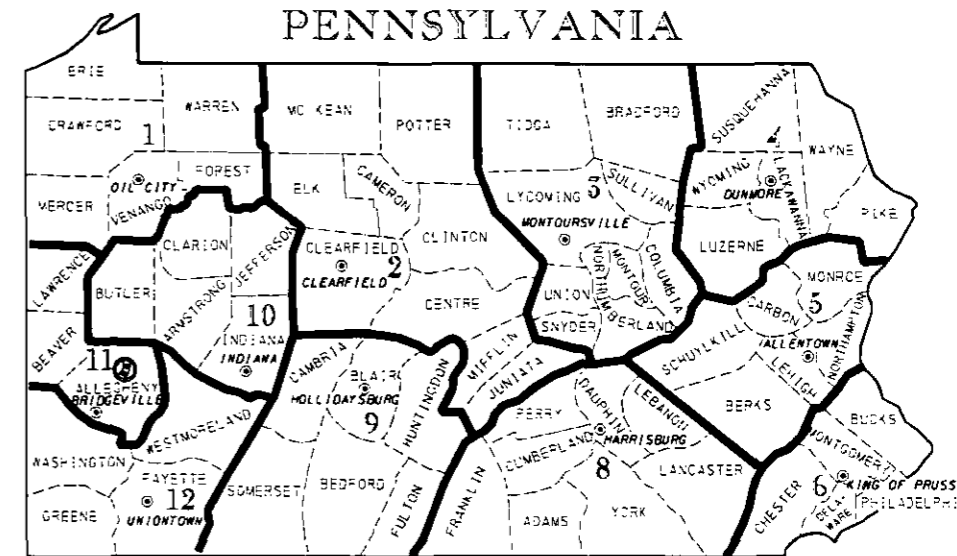
NOTE:

THE DEPTHS OF MATERIAL SHOWN ARE FOR DESIGN PURPOSES ONLY. ANY RISK OF UNANTICIPATED COSTS ASSOCIATED WITH DIFFERENCES BETWEEN THE LISTED DEPTHS AND THE ACTUAL DEPTHS SHALL BE ACCEPTED BY THE CONTRACTOR.

TABULATION OF SEGMENT/STATION EQUALITIES

NONE

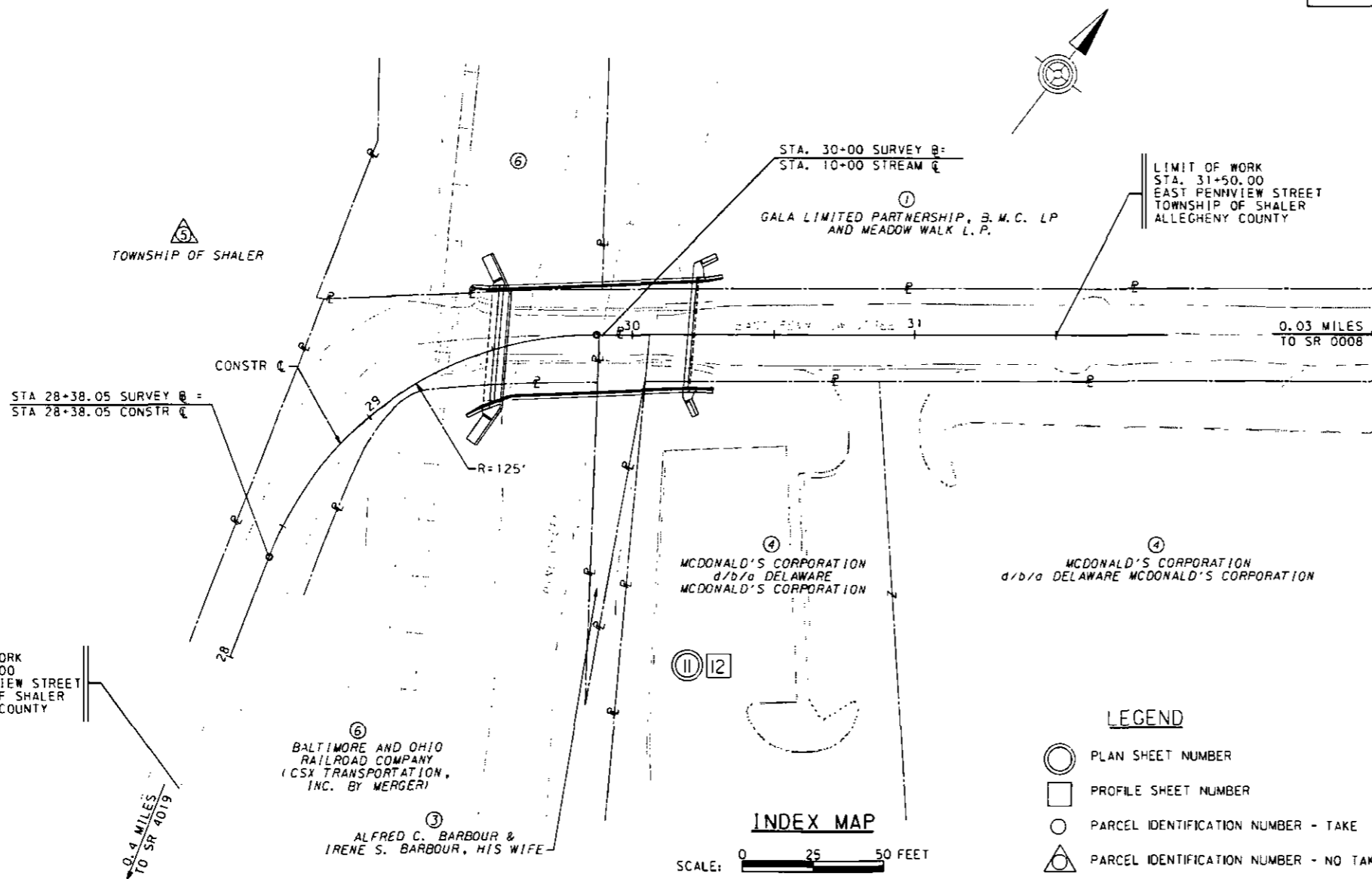
PENNSYLVANIA



12 DISTRICT
 ⑩ DISTRICT OFFICE
 ⑪ PROJECT LOCATION

INDEX OF DRAWINGS

DESCRIPTION	SHEET
TITLE SHEET	1
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PROFILE SHEET	12
SUPPLEMENTAL PLANS	
TRAFFIC CONTROL PLAN	1
EROSION & SEDIMENT POLLUTION CONTROL PLAN	4
STRUCTURE PLAN	46
CROSS SECTIONS	7



County of Allegheny
 Pittsburgh, Pennsylvania
 Department of Public Works

CONSTRUCTION DRAWING
 INDEX MAP

PINE CREEK BRIDGE NO. II
 P111-0211

DES. N.L.K.	DRW. J.R.A.	CHK. J.A.S.
DATE 9/15	SCALE AS NOTED	SHEET 2 OF 12

26048



TABULATION OF OVERALL LENGTH

STA 27+50.00 TO STA 31+50.00 = 400.00 FT = 0.076MI

TABULATION OF CONSTRUCTION LENGTH

STA 28+38.00 TO STA 30+54.00 = 216.00 FT = 0.041 MI

LIST OF EQUALITIES

NONE

SUMMARY OF PROJECT COORDINATES

BASED ON THE PENNSYLVANIA STATE COORDINATE SYSTEM

RTE.	STATION	POINT	COORDINATES		BEARING
			NORTH	EAST	
EAST PENNVIEW STREET	28+00.00	POT	437286.6385	1356115.8824	N15°49'05"W
	28+38.10	PC	437323.2989	1356105.4961	N15°49'05"W
	29+23.11	PI	437405.0867	1356082.3248	N52°37'04"E
	29+87.41	PT	437456.6969	1356149.8714	N52°37'04"E
	31+89.56	POT	437579.4320	1356310.5050	N52°37'04"E

NOTE:

FOUR (4) PLACE COORDINATES ARE USED FOR COMPUTATIONAL PURPOSES ONLY AND DO NOT IMPLY A PRECISION BEYOND TWO (2) PLACES.

PUBLIC UTILITIES

PENNSYLVANIA ONE CALL SYSTEM
1-800-242-1766
SERIAL NO 1825784

- S — GIRTYS RUN JOINT SEWER AUTHORITY
300 WETZEL ROAD
GLENSHAW, PA 15116
ATTN: RANDAL COLLINS
412-821-3497
- E — DUQUESNE LIGHT COMPANY
2825 NEW BEAVER AVENUE, BUILDING 6
PITTSBURGH, PA 15233-1003
ATTN: JIM RUNATZ
412-393-7813
- G — PEOPLES NATURAL GAS COMPANY
1201 PITT STREET
PITTSBURGH, PA 15221
ATTN: JAMES GIARDINA
412-244-2577
- T — VERIZON PENNSYLVANIA LLC
RIGHT OF WAY DEPARTMENT
15 EAST MONTGOMERY AVENUE, 2ND FLOOR
PITTSBURGH, PA 15212
ATTN: DEBBIE DELIA
412-633-3810
- FOU — VERIZON BUSINESS
630 CLARK AVENUE
KING OF PRUSSIA, PA 19406
ATTN: JOHN ALESSANDRINE
610-337-6707
- CTV — COMCAST CABLE COMMUNICATIONS, INC
300 CORLISS STREET
PITTSBURGH, PA 15220
ATTN: RICK MOSLEN
412-999-0590
- W — HAMPTON SHALER WATER AUTHORITY
PO BOX 66
3101 McCULLY ROAD
ALLISON PARK, PA 15101
ATTN: SAM SCARFONE
412-486-4867

GENERAL NOTES

THE LEGAL RIGHT-OF-WAY ON EAST PENNVIEW STREET FROM STATION 27+50.00 TO STATION 31+50.00 IS VARIABLE IN WIDTH BASED ON THE CONDEMNATION PLAN FOR THE CONSTRUCTION OF PINE CREEK BRIDGE NO. 11, RECORDED IN THE DEPARTMENT OF REAL ESTATE IN ALLEGHENY COUNTY, PA IN HIGHWAY BOOK 152, PAGE 38 ON MARCH 30, 2010.

CONSTRUCT PROJECT IN ACCORDANCE WITH PUBLICATION 408 SPECIFICATIONS, DATED 2011 WITH CURRENT CHANGE.

DO NOT INTERFERE WITH THE OPERATION OF ANY FIRE HYDRANT, FIRE CALL BOX OR POLICE CALL BOX.

DESIGN OF THIS PROJECT WAS DONE UNDER ALLEGHENY COUNTY CONTRACT NO. 31335, DESIGN GROUP C-2003 (AA00-0302), CONTRACT DATE APRIL 19, 2004.

THREE WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR MUST CONTACT THE PA ONE CALL SYSTEM, INC., PHONE 1-800-242-1776, SERIAL NO. ----- FOR SHALER TOWNSHIP.

TEMPORARY CONSTRUCTION EASEMENT. AN EASEMENT TO USE THE LAND AS NECESSARY DURING CONSTRUCTION OF THE PROJECT. THE EASEMENT IS REQUIRED ONLY UNTIL THE CONSTRUCTION OR WORK INDICATED BY THE PLAN IS COMPLETED, UNLESS SOONER RELINQUISHED IN WRITING BY THE DEPARTMENT.

VERTICAL DATUM ON THESE PLANS IS BASED ON NORTH AMERICAN VERTICAL DATUM (NAVD 1988) BY BENCH LEVEL.

HORIZONTAL CONTROL FOR THIS PROJECT IS BASED ON THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM (NAD83).

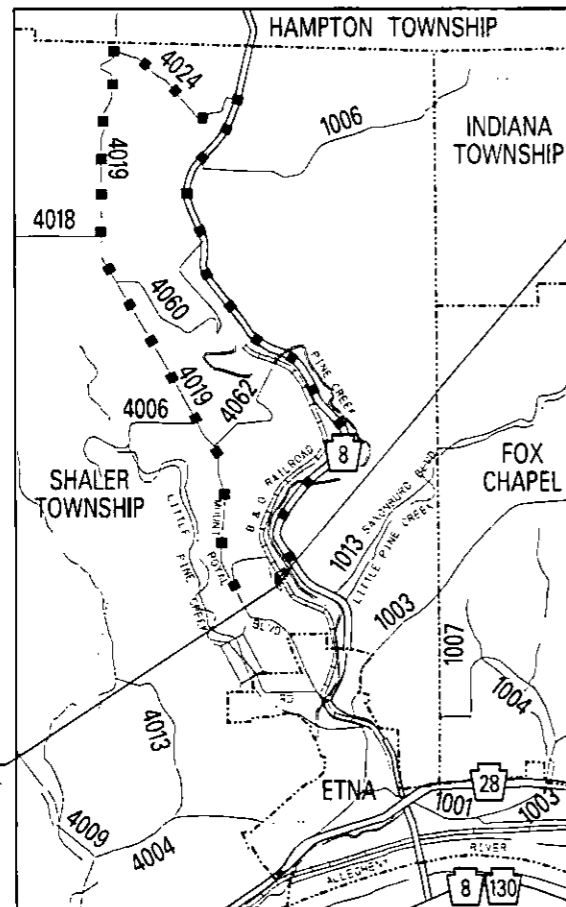
LEGEND OF SYMBOLS FOR SEEDING AND SOIL SUPPLEMENTS:

----- SEEDING AND SOIL SUPPLEMENTS FORMULA D (SLOPES 3:1 AND FLATTER) ON TOPSOIL 4" DEPTH

DRAINAGE ADJUSTMENTS, CLEANING AND MAINTENANCE WORK MAY BE DONE OUTSIDE OF THE LEGAL RIGHT-OF-WAY IN ACCORDANCE WITH ACT 314 OF THE HIGHWAY ACT OF 1945, P.L. 142.

DETAILS, OTHER THAN THOSE INDICATED, ARE ON THE FOLLOWING STANDARD DRAWINGS:

STD. DRAWING	DATE
RC-10M	JUNE 1, 2010
RC-11M	JUNE 1, 2010
RC-12M	JUNE 1, 2010
RC-13M	JUNE 1, 2010
RC-23M	JUNE 1, 2010
RC-25M	JUNE 1, 2010
RC-30M	JUNE 1, 2010
RC-31M	JUNE 1, 2010
RC-45M	JUNE 1, 2010
RC-46M	JUNE 1, 2010
RC-50M	JUNE 1, 2010
RC-52M	JUNE 1, 2010
RC-54M	JUNE 1, 2010
RC-70M	JUNE 1, 2010
RC-72M	JUNE 1, 2010
RC-75M	JUNE 1, 2010
RC-77M	JUNE 1, 2010
BC-734M	OCT 26, 2010
BC-735M	OCT 26, 2010
BC-736M	MAY 18, 2012
BC-739M	MAY 18, 2012
BC-751M	NOV 21, 2014
BC-752M	NOV 21, 2014
BC-755M	NOV 26, 2013
BC-775M	NOV 26, 2013
BC-788M	NOV 21, 2014
TC-8600	JUNE 13, 2013
TC-8716	JUNE 13, 2013



LOCATION MAP

SCALE
0 0.5 1.5 MILES

LIMIT OF WORK
STA 31+50.00
EAST PENNVIEW STREET
TOWNSHIP OF SHALER
ALLEGHENY COUNTY

LEGEND

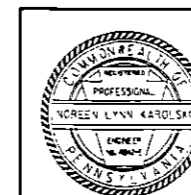
- LIMITED ACCESS HIGHWAY
- STATE ROUTE
- TOWNSHIP ROAD
- PROJECT
- DETOUR

EARTHWORK SUMMARY ENTIRE PROJECT

THE INFORMATION ON ESTIMATED AMOUNTS OF EARTHWORK HAS BEEN USED IN THE PRELIMINARY ESTIMATE. DO NOT USE AS A WAIVER OF ANY PROVISIONS OF THE SPECIFICATIONS AND CONTRACTS.

CUBIC YARDS OF EXCAVATION						CUBIC YARDS OF COMPLETED EMBANKMENT*	CUBIC YARDS OF BORROW EXCAVATION	CUBIC YARDS OF WASTE	CUBIC YARDS OF BORROW STRUCTURE BACKFILL **
CLASS 1	CLASS 1A	CLASS 1B	CLASS 2	CLASS 3	CLASS 4				
118	—	—	21	1050	149	1247	868	1338	379

- * INCLUDES ALL BORROW ITEMS
- ** PART OF LUMP SUM STRUCTURE ITEMS



County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

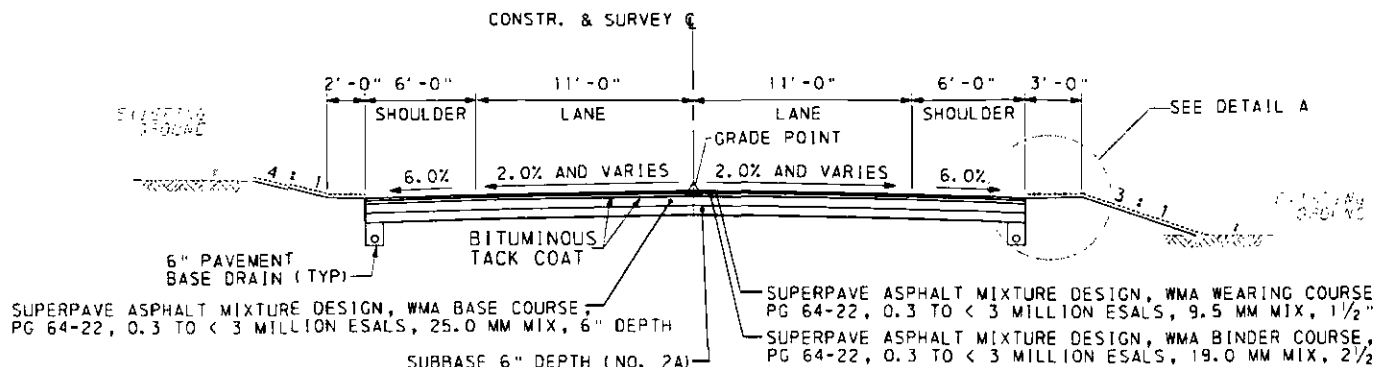
CONSTRUCTION DRAWING
LOCATION MAP/
GENERAL NOTES

PINE CREEK BRIDGE NO. II

PI11-0211

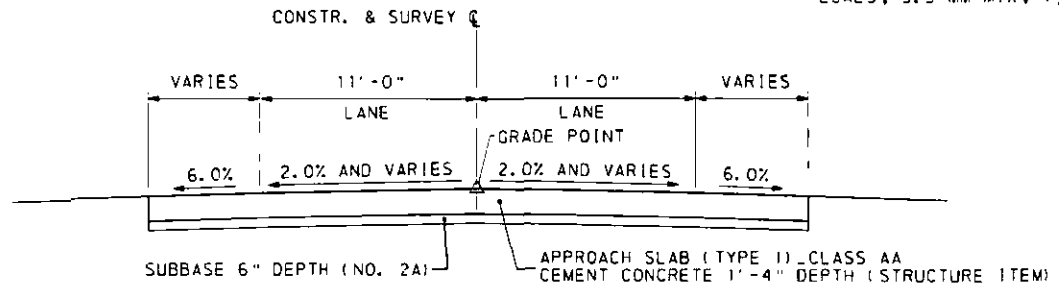
DES. N.L.K.	DRW. J.R.A.	CHK. J.A.S.
DATE 9/15	SCALE AS NOTED	SHEET 3 OF 12

26048



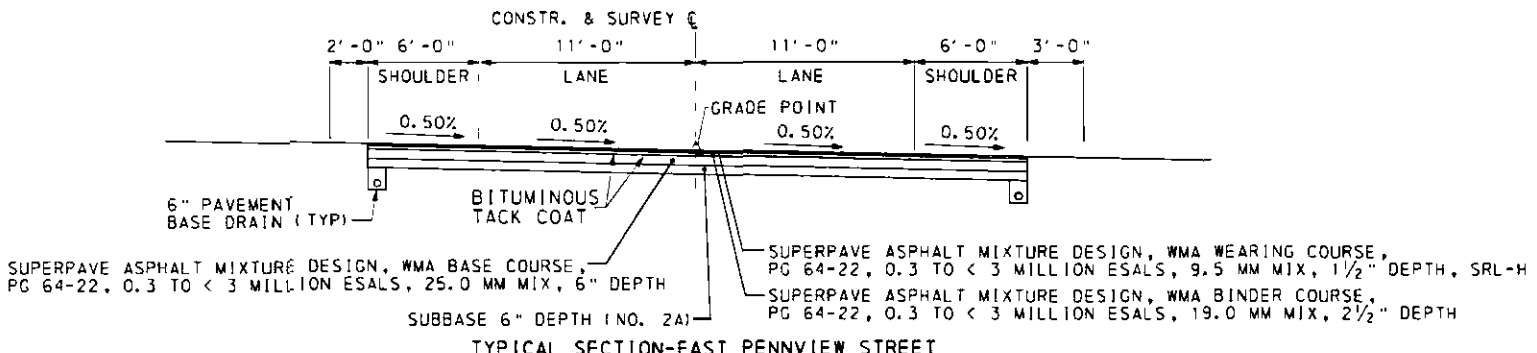
TYPICAL SECTION-EAST PENNVIEW STREET
(TANGENT)

STA. 28+38.00 TO STA. 28+90.00
STA. 30+46.26 TO STA. 30+54.00



APPROACH SLAB TYPICAL SECTION-EAST PENNVIEW STREET
(TANGENT)

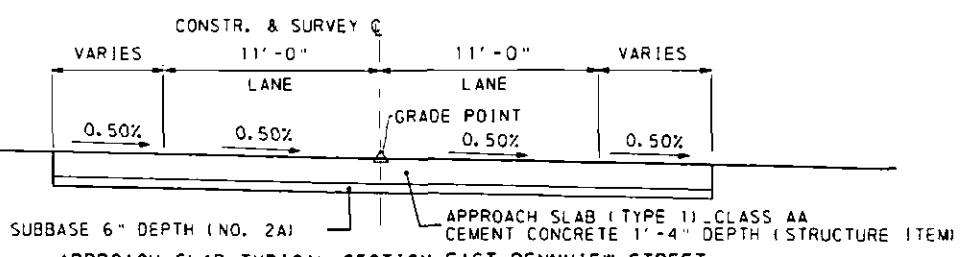
STA. 30+21.26 TO STA. 30+46.26



TYPICAL SECTION-EAST PENNVIEW STREET
(SUPERELEVATION)

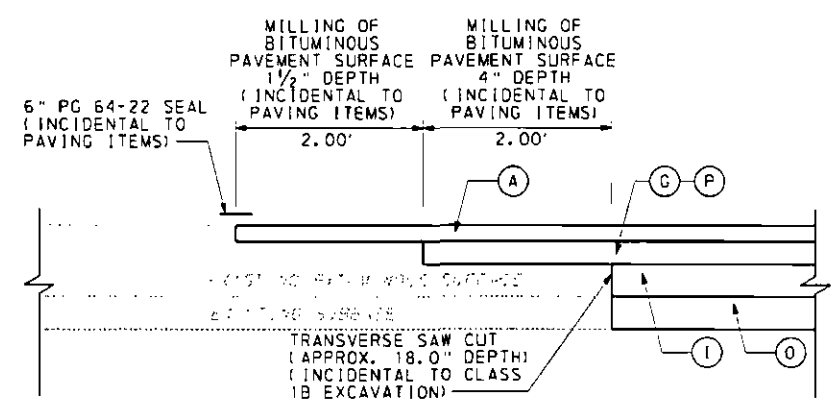
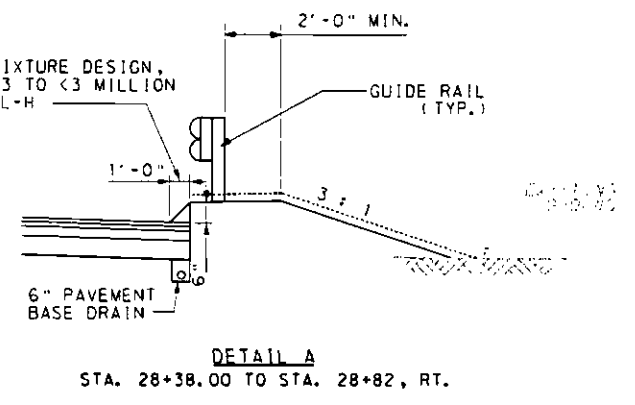
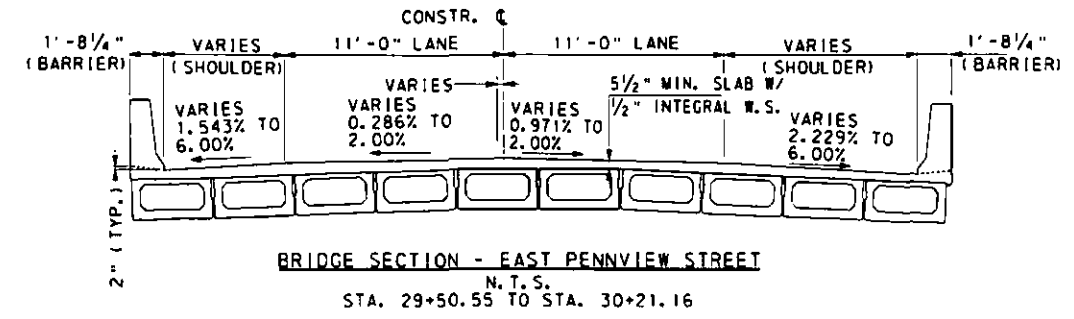
STA. 28+90.00 TO STA. 29+22.00

AT GRADE RAILROAD CROSSING (BY OTHERS)
STA. 29+22.00 TO STA. 29+36.50



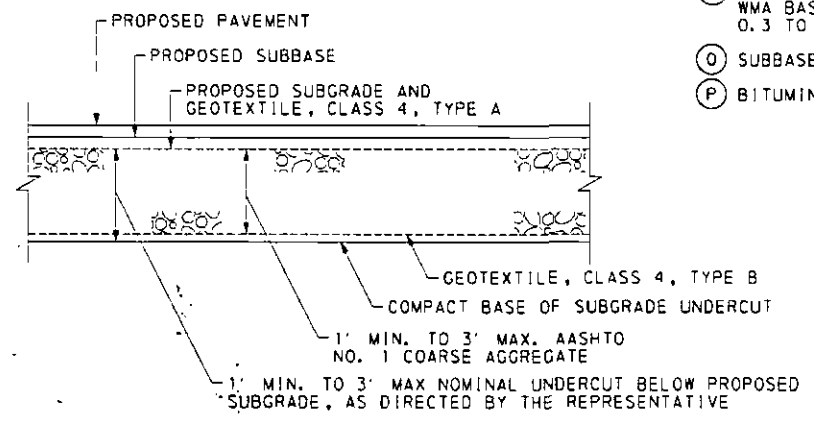
APPROACH SLAB TYPICAL SECTION-EAST PENNVIEW STREET
(SUPERELEVATION)

STA. 29+36.50 TO STA. 29+50.55



- (A) SUPERPAVE ASPHALT MIXTURE DESIGN, WMA WEARING COURSE, PG 64-22, 0.3 TO < 3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-H.
- (C) SUPERPAVE ASPHALT MIXTURE DESIGN, WMA BINDER COURSE, PG 64-22, 0.3 TO < 3 MILLION ESALS, 19.0 MM MIX 2 1/2" DEPTH
- (I) SUPERPAVE ASPHALT MIXTURE DESIGN, WMA BASE COURSE, PG 64-22, 0.3 TO < 3 MILLION ESALS, 25.0 MM MIX (MIN. 6" DEPTH)
- (O) SUBBASE (NO. 2A) (MIN. 6" DEPTH)
- (P) BITUMINOUS TACK COAT

TYPICAL TIE IN DETAIL TO EXISTING PAVEMENT
NTS

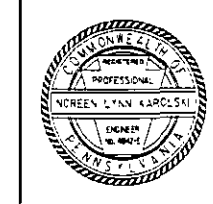


AS DIRECTED SUBGRADE UNDERCUT DETAIL
ITEM 9000-2081

1. PERFORM SPECIAL ROLLING TO DETERMINE WEAK SUBGRADE AREAS, ITEM 0208-0001.
2. PERFORM UNDERCUTTING/EXCAVATION AT LOCATIONS AS DIRECTED BY THE REPRESENTATIVE. DEPTH OF UNDERCUT 1' MIN TO 3' MAX IN ACCORDANCE WITH ITEM 9000-2081 AND AS DIRECTED.
3. COMPACT THE BOTTOM OF UNDERCUT.
4. GEOTEXTILE, CLASS 4 TYPE B TO BE USED FOR STABILIZATION.
5. PLACE SELECTED BORROW EXCAVATION, COARSE AGGREGATE, NO.1 IN 8" MAX LIFTS.
6. GEOTEXTILE, CLASS 4 TYPE A TO BE USED FOR LAYER SEPARATION.
7. 8" OF NO. 1 COARSE AGGREGATE OR 6" OF SUBBASE MATERIAL IS TO BE IN PLACE ON GEOTEXTILE BEFORE PERMITTING COMPACTION.

LEGEND

----- FORMULA D (SLOPES 3:1 AND FLATTER)



County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
TYPICAL SECTIONS
PINE CREEK BRIDGE NO. II
PI11-0211

REVISIONS		
DES.	N.L.K.	DRW.
J.R.A.	CHK.	J.A.S.
DATE	9/15	SCALE
	AS NOTED	SHEET 4 OF 12

26048

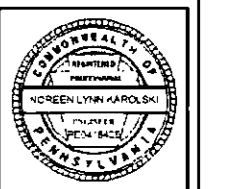
3/24/2016 J:\PROJECTS\60511-GONCARIO\roadway\CONSTR\PA\CK Cons1.dwg

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				11-0	ALLEGHENY	000		5 OF 12
SHALER								

SUMMARY

◆ - SEE SPECIAL PROVISIONS

QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET	QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET	QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET	QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET
	0201 0001	CLEARING AND GRUBBING		NO TAB						50	0867 0022	COMPOST FILTER SOCK, 24" DIAMETER		10	AND 70	9000 0105	42" INSIDE DIAMETER PERMANENT CASING FOR DRILLED CAISSON	3	STR
	0203 0001	CLASS 1 EXCAVATION		7		0608 0001	MOBILIZATION		NO TAB					AND 20	9000 0106	36" DIAMETER DRILLED CAISSONS, ROCK SOCKET	3	STR	
21	0204 0001	CLASS 2 EXCAVATION		8		0609 0004	INSPECTOR'S FIELD OFFICE AND INSPECTION FACILITIES, TYPE C		NO TAB					AND 84	9000 0107	36" DIAMETER DRILLED CAISSONS, SHAFT SECTION	3	STR	
76	0205 0100	FOREIGN BORROW EXCAVATION		7		0609 0009	EQUIPMENT PACKAGE		NO TAB				TCP	AND 84	9000 0108	36" INSIDE DIAMETER PERMANENT CASING FOR DRILLED CAISSON	3	STR	
790	4205 0367	SELECTED BORROW EXCAVATION ROCK, CLASS R-7 INCLUDES ROCK, CLASS R-4		7	120	0610 7000	PAVEMENT BASE DRAIN		8	30	0901 0231	ADDITIONAL WARNING LIGHTS, TYPE B		TCP	AND 50	9000 0109	30" DIAMETER DRILLED CAISSONS, ROCK SOCKET	3	STR
4	0208 0001	SPECIAL ROLLING		7	35	0612 0001	SUBGRADE DRAINS		8	100	0901 0240	ADDITIONAL TRAFFIC CONTROL SIGNS		TCP	AND 21	9000 0110	CSL TESTING	3	STR
155	0212 0001	GEOTEXTILE, CLASS 1		8	4	0620 0010	TYPICAL AND ALTERNATE CONCRETE BRIDGE BARRIER TRANSITION WITHOUT INLET PLACEMENT		9	4	0937 0114	GUIDE RAIL MOUNTED DELINEATOR TYPE D, (W/W)		9	AND 50	9000 0111	HQ CORING	3	STR
23	0217 0014	GEOTEXTILE, CLASS 4, TYPE A		10						6	0937 0232	BARRIER MOUNTED DELINEATOR, TOP-MOUNT TYPE S, (W/W)		9	AND 21	9000 0112	TIP TESTING	3	STR
351	0311 0426	SUPERPAVE ASPHALT MIXTURE DESIGN, WMA BASE COURSE, PG 64-22, 0.3 TO < 3 MILLION ESALS, 25.0 MM MIX, 5" DEPTH		7	4	0620 0400	TERMINAL SECTION, SINGLE		9	1728	4962 1000	4" WHITE WATERBORNE PAVEMENT MARKINGS MODIFIED		7	OR 8000 0001	PRESTRESSED CONCRETE BRIDGE STRUCTURE	3	STR	
					38	0620 1100	TYPE 2-SC GUIDE RAIL		9	1728	4962 1005	4" YELLOW WATERBORNE PAVEMENT MARKINGS MODIFIED		7	AND (-)	1006 0610	TEST HOLES	3	STR
494	0350 0106	SUBBASE 6" DEPTH (NO 2A)		7						4	4962 1051	WHITE WATERBORNE PAVEMENT LEGEND, "RR CROSSING", 6'-6", 11' LANE WIDTH (INCLUDES "X", "RR", AND 2 TRANSVERSE BANDS) MODIFIED		7	AND (-)	9000 0101	60" DIAMETER DRILLED CAISSONS, SHAFT SECTION	3	STR
385	0411 0482	SUPERPAVE ASPHALT MIXTURE DESIGN, WMA WEARING COURSE, PG 64-22, 0.3 TO < 3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-H		7		0686 0050	CONSTRUCTION SURVEYING, TYPE D		NO TAB					AND (-)	9000 0102	60" INSIDE DIAMETER PERMANENT CASING FOR DRILLED CAISSON	3	STR	
702	0411 6450	SUPERPAVE ASPHALT MIXTURE DESIGN, WMA BINDER COURSE, PG 64-22, 0.3 TO < 3 MILLION ESALS, 19.9 MM MIX, 2 1/2" DEPTH		7		0688 0020	MICROCOMPUTER, TYPE C		NO TAB	4	497 000	REMOVE POST MOUNTED SIGNS, TYPE B MODIFIED		7	AND (-)	9000 0103	54" DIAMETER DRILLED CAISSONS, ROCK SOCKET	3	STR
1404	0460 0001	BITUMINOUS TACK COAT		7		0688 0021	MICROCOMPUTER, TYPE C		NO TAB				NO TAB	AND (-)	9000 0104	42" DIAMETER DRILLED CAISSONS, SHAFT SECTION	3	STR	
351	0491 0014	MILLING OF BITUMINOUS PAVEMENT SURFACE, 2 1/2" DEPTH, MILLED MATERIAL RETAINED BY CONTRACTOR		7		0689 0003	CPM SCHEDULE		NO TAB					AND (-)	9000 0105	42" INSIDE DIAMETER PERMANENT CASING FOR DRILLED CAISSON	3	STR	
38	4601 0500	18" THERMOPLASTIC PIPE, GROUP VI, 15'-2' FILL, SHORE/TRENCH BOX MODIFIED	1	8	6	4802 0001	TOPSOIL FURNISHED AND PLACED MODIFIED		10					AND (-)	9000 0106	36" DIAMETER DRILLED CAISSONS, ROCK SOCKET	3	STR	
38	4601 7710	18" REINFORCED CONCRETE PIPE, TYPE B, 15' - 3' FILL, SHORE/TRENCH BOX MODIFIED	1	8	1	0804 0003	SEEDING AND SOIL SUPPLEMENTS - FORMULA D INCLUDING MULCH		10					AND (-)	9000 0107	36" DIAMETER DRILLED CAISSONS, SHAFT SECTION	3	STR	
38	4601 4033	18" CORRUGATED GALVANIZED STEEL PIPE, TYPE I, (2 2/3" X 1/2" CORRUGATIONS), 14 GAGE, SHORE/TRENCH BOX MODIFIED	1	8	1	0804 0004	SEEDING - FORMULA E, INCLUDING MULCH		10		8020 0001	BRIDGE STRUCTURE, AS DESIGNED, BPAA 02-3008	3	STR	AND (-)	9000 0108	36" INSIDE DIAMETER PERMANENT CASING FOR DRILLED CAISSON	3	STR
80	0601 5901	CLEANING EXISTING PIPE CULVERTS, DIAMETERS UP TO AND INCLUDING 36"		8	2000	0845 0001	UNFORESEEN WATER POLLUTION CONTROL		NO TAB		AND 56693	REINFORCEMENT BARS, EPOXY COATED	3	STR	AND (-)	9000 1109	30" DIAMETER DRILLED CAISSONS, ROCK SOCKET	3	STR
50	4601 7313	18" REINFORCED CONCRETE PIPE, TYPE B, 15' - 1.5' FILL MODIFIED	2	8	2	0849 0010	ROCK CONSTRUCTION ENTRANCE		10	AND 592	1006 0510	TEST HOLES	3	STR	AND (-)	9000 1110	CSL TESTING	3	STR
50	4601 0400	18" THERMOPLASTIC PIPE, GROUP VI, 15'-2' FILL MODIFIED	2	8	2	0855 0003	PUMPED WATER FILTER BAG		10	AND 133	9000 0101	60" DIAMETER DRILLED CAISSONS, SHAFT SECTION	3	STR	AND (-)	9000 1111	HQ CORING	3	STR
2	0605 2731	TYPE M CONCRETE TOP UNIT AND BICYCLE SAFE GRATE		8	1	0855 0004	REPLACEMENT PUMPED WATER FILTER BAG		10	AND 133	9000 0102	60" INSIDE DIAMETER PERMANENT CASING FOR DRILLED CAISSON	3	STR					
2	0605 2850	STANDARD INLET BOX, HEIGHT <= 10'		8	3	0860 0000	INLET FILTER BAG FOR TYPE M INLET		10	AND 35	9000 0103	54" DIAMETER DRILLED CAISSONS, ROCK SOCKET	3	STR					
1	0607 0200	REBUILT MANHOLE		8	140	0865 0001	SILT BARRIER FENCE, 18" HEIGHT		10	AND 70	9000 0104	42" DIAMETER DRILLED CAISSONS, SHAFT SECTION	3	STR					

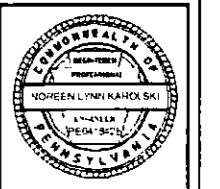


SUMMARY

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				11-0	ALLEGHENY	000		6 OF 12
SHALER								

◆ - SEE SPECIAL PROVISIONS

QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET	QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET	QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET	QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET
	UNIT					UNIT					UNIT					UNIT			
AND (-)	9000 1112 EACH	TIP TESTING	3	STR	5000	9000 0250 DOLLA	LOCATE EXISTING UNDERGROUND FACILITIES		NO TAB										
OR	8100 0001 LS	STEEL BRIDGE STRUCTURE	3	STR	118	9000 2081 CY	AS DIRECTED SUBGRADE UNDERCUT		7										
AND (-)	1006 0610 LF	TEST HOLES	3	STR															
AND (-)	9000 0101 LF	60" DIAMETER DRILLED CAISSONS, SHAFT SECTION	3	STR	1	9000 6056 EACH	CORE HOLE IN INLET BOX		8										
AND (-)	9000 0102 LF	60" INSIDE DIAMETER PERMANENT CASING FOR DRILLED CAISSON	3	STR		9073 7001 LS	DISPOSAL OF BRIDGE WASTE		NO TAB										
AND (-)	9000 0103 LF	54" DIAMETER DRILLED CAISSONS, ROCK SOCKET	3	STR		9075 2001 LS	CONFINEMENT		NO TAB										
AND (-)	9000 0104 LF	42" DIAMETER DRILLED CAISSONS, SHAFT SECTION	3	STR		9077 2001 LS	WORKER HEALTH AND SAFETY		NO TAB										
AND (-)	9000 0105 LF	42" INSIDE DIAMETER PERMANENT CASING FOR DRILLED CAISSON	3	STR		9203 2101 LS	TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM		NO TAB										
AND (-)	9000 0106 LF	36" DIAMETER DRILLED CAISSONS, ROCK SOCKET	3	STR															
AND (-)	9000 0107 LF	36" DIAMETER DRILLED CAISSONS, SHAFT SECTION	3	STR															
AND (-)	9000 0108 LF	36" INSIDE DIAMETER PERMANENT CASING FOR DRILLED CAISSON	3	STR															
AND (-)	9000 2109 LF	30" DIAMETER DRILLED CAISSONS, ROCK SOCKET	3	STR															
AND (-)	9000 2110 EACH	CSL TESTING	3	STR															
AND (-)	9000 2111 LF	HQ CORING	3	STR															
AND (-)	9000 2112 EACH	TIP TESTING	3	STR															
168	9000 0004 LF	TEMPORARY COFFERDAM			10														
2	9000 0011 EACH	BRIDGE IDENTIFICATION PLAQUES							NO TAB										
60	9000 0012 LF	SAWCUT OF EXISTING PAVEMENT			7														
	9000 0013 LS	JACKING BRIDGE SUPERSTRUCTURE							NO TAB										
	9000 0014 LS	SURVEY MARKER							NO TAB										
	9000 0113 LS	TECHNIQUE SHAFT							STR										

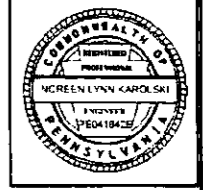


TABULATION OF QUANTITIES

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				11-0	ALLEGHENY	000		8 OF 12

(*) SEE SUMMARY SHEET FOR COMPLETE ITEM NUMBERS

DRAINAGE



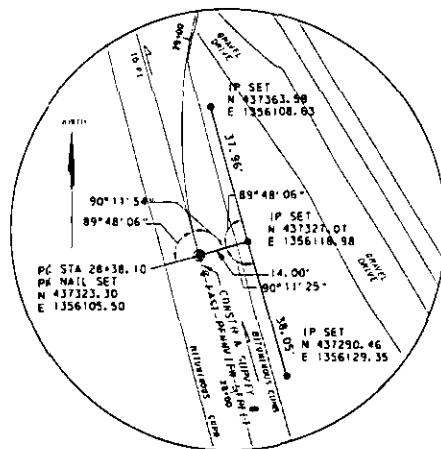
CLASS 2 EXCAVATION		GEOTEXTILE, CLASS 1		DESIGN NO. 1		CLEANING EXISTING PIPE CULVERTS, DIAMETERS UP TO AND INCLUDING 36"		DESIGN NO. 2		TYPE M CONCRETE TOP UNIT AND BICYCLE SAFE GRATE		STANDARD INLET BOX, HEIGHT 4'-6" 10'		REBUILT MANHOLE		PAVEMENT BASE DRAIN		SUBGRADE DRAINS		CORE HOLE IN INLET BOX		MAX DEPTH (FOR INFORMATION ONLY)		EMBANKMENT (FOR INFORMATION ONLY)		CLASS 4 EXCAVATION (FOR INFORMATION ONLY)		REMARKS	SIDE	STATIONS	
0204 CY	0001 LF	0212 CY	0001 LF	4601 CY	4601 LF	0601 CY	5901 LF	4601 CY	4601 LF	0605 CY	2731 SET	0605 CY	2850 EACH	0607 CY	0200 VF	0610 CY	7000 LF	0612 CY	0001 LF	9000 CY	6056 EACH	FT	CY	CY	ITEM NUM	UNIT					
	40															40													OUTLET IN INLET STA 28+80.00	RT	28+38.00 TO 28+80.00
	80															80													OUTLET IN PIPE STA 29+00.00	LT	28+38.00 TO 29+00.00
					50				1		1										1	4	9	35					RT/LT	28+80.00 TO 29+05.00	
						40																							LT	29+05.00 TO 29+25.00	
						40																							LT	29+25.00 TO 29+51.00	
21																													REMOVE PIPE AS NECESSARY	RT	30+08.00 TO 30+48.00
															1														SANITARY MANHOLE	LT	30+32.00
	35																35												LT/RT	30+48.00	
					38				1		1											10	63	79					LT	30+58.00 TO 30+20.08	
21	155	38	80	50	2	2	1	120	35	1											14	72	114					TOTALS			

BM #1 ELEV 770.60
18.00' LT STA 28+55.15
EAST PENNVIEW STREET
BENCHMARK SET ON ROCK

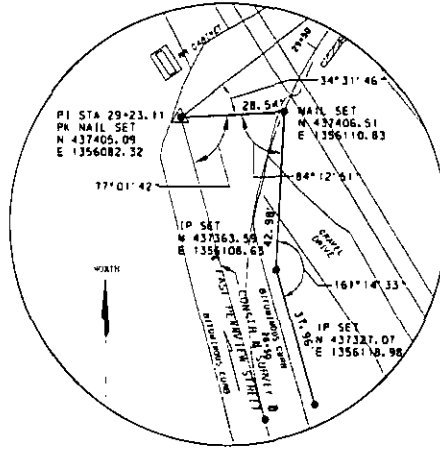
BM #2 ELEV 765.84
4.19' RT STA 29+47.92
EAST PENNVIEW STREET
BENCHMARK FOUND ON PARAPET

BM #3 ELEV 761.76
14.11' LT STA 29+57.55
EAST PENNVIEW STREET
BENCHMARK FOUND ON ABUTMENT

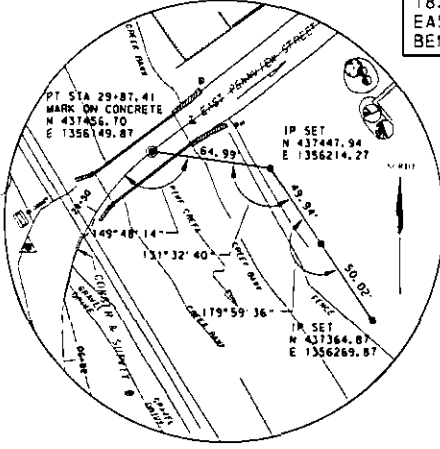
BM #4 ELEV 764.35
31.22' RT STA 31+52.66
EAST PENNVIEW STREET
BENCHMARK SET IN LAMP BASE



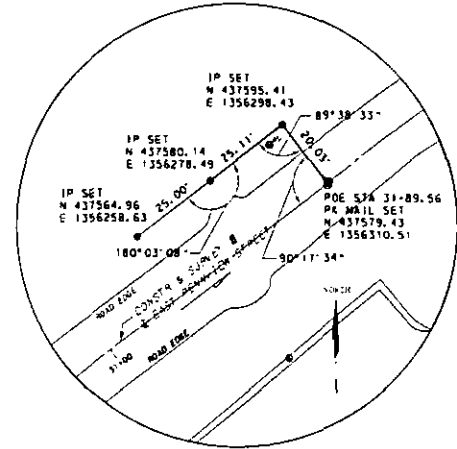
PC-STA 28+38.10
EAST PENNVIEW STREET
PK NAIL SET
NOT TO SCALE



PI-STA 29+23.11
EAST PENNVIEW STREET
PK NAIL SET
NOT TO SCALE



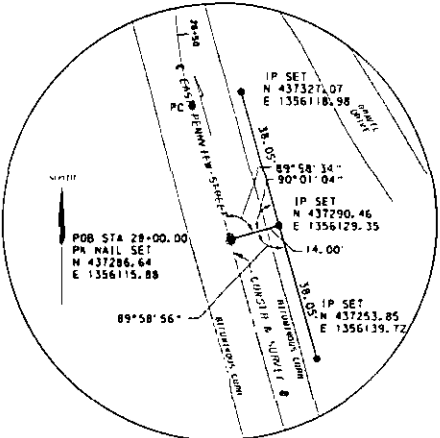
PT-STA 29+87.41
EAST PENNVIEW STREET
MARK ON CONCRETE
NOT TO SCALE



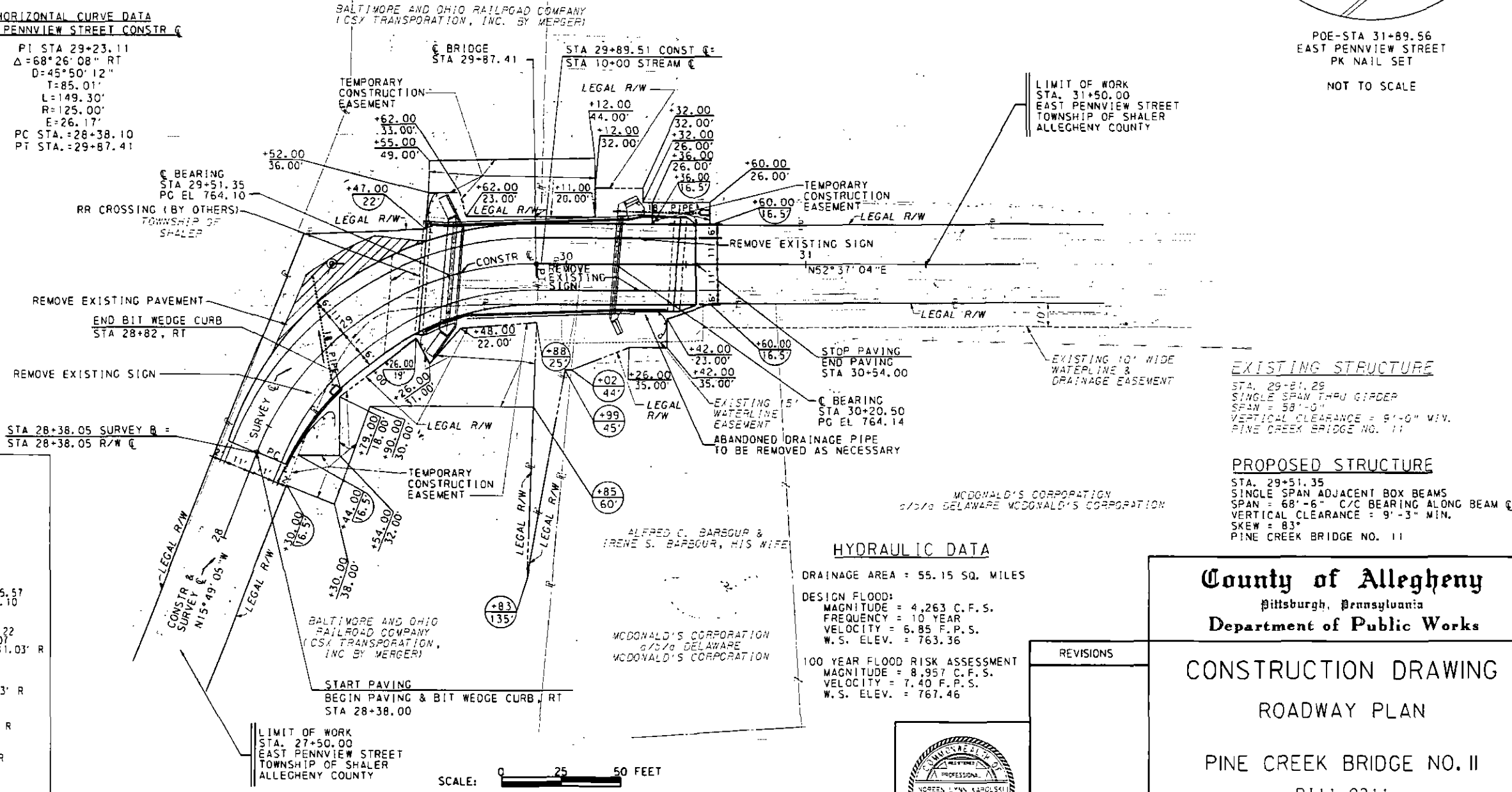
POE-STA 31+89.56
EAST PENNVIEW STREET
PK NAIL SET
NOT TO SCALE

**HORIZONTAL CURVE DATA
EAST PENNVIEW STREET CONSTR C**

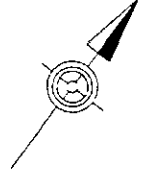
PI STA 29+23.11
Δ = 68°26'08" RT
D = 45°50'12"
T = 85.01'
L = 149.30'
R = 125.00'
E = 26.17'
PC STA = 28+38.10
PT STA = 29+87.41



POB-STA 28+00.00
EAST PENNVIEW STREET
PK NAIL SET
NOT TO SCALE



GALA LIMITED PARTNERSHIP, B. M. C. LP



EXISTING STRUCTURE

STA. 29+81.29
SINGLE SPAN THRU GIRDER
SPAN = 58'-0"
VERTICAL CLEARANCE = 9'-0" MIN.
PINE CREEK BRIDGE NO. 11

PROPOSED STRUCTURE

STA. 29+51.35
SINGLE SPAN ADJACENT BOX BEAMS
SPAN = 68'-6" C/C BEARING ALONG BEAM C
VERTICAL CLEARANCE = 9'-3" MIN.
SKEW = 83°
PINE CREEK BRIDGE NO. 11

HYDRAULIC DATA

DRAINAGE AREA = 55.15 SQ. MILES
DESIGN FLOOD:
MAGNITUDE = 4,263 C.F.S.
FREQUENCY = 10 YEAR
VELOCITY = 6.85 F.P.S.
W.S. ELEV. = 763.36
100 YEAR FLOOD RISK ASSESSMENT
MAGNITUDE = 8,957 C.F.S.
VELOCITY = 7.40 F.P.S.
W.S. ELEV. = 767.46

MCDONALD'S CORPORATION
c/o DELAWARE MCDONALD'S CORPORATION

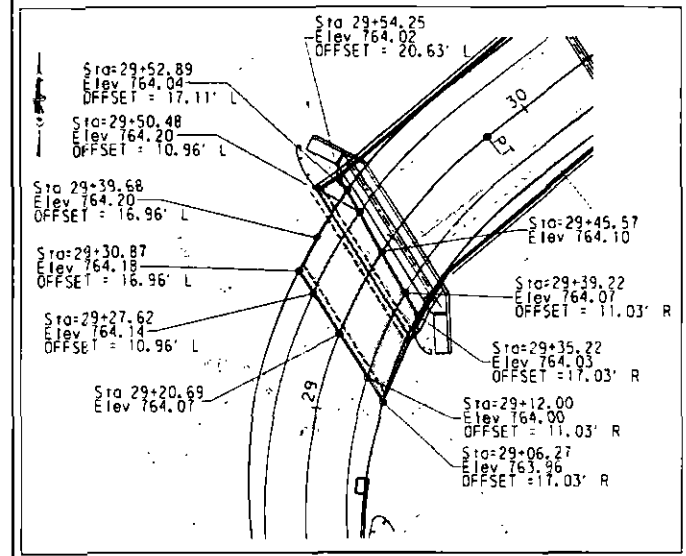
ALFRED C. BARBOUR &
IRENE S. BARBOUR, HIS WIFE

MCDONALD'S CORPORATION
c/o DELAWARE MCDONALD'S CORPORATION

BALTIMORE AND OHIO
RAILROAD COMPANY
(CSX TRANSPORTATION,
INC BY MERGER)

LIMIT OF WORK
STA. 27+50.00
EAST PENNVIEW STREET
TOWNSHIP OF SHALER
ALLEGHENY COUNTY

SCALE: 0 25 50 FEET



GRADING DETAIL
NTS



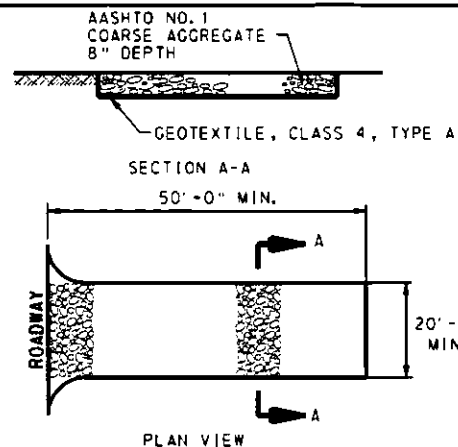
REVISIONS

County of Allegheny Pittsburgh, Pennsylvania Department of Public Works			
CONSTRUCTION DRAWING ROADWAY PLAN PINE CREEK BRIDGE NO. II PI11-0211			
DES. N.L.K.	DRW. J.R.A.	CHK. J.A.S.	26048
DATE 9/15	SCALE AS NOTED	SHEET II OF 12	

FOR PROFILE SEE SHEET 12 OF 12 SURVEY BOOK NO. 238-2004

4/24/2016 J:\PROJECTS\16051-00\ACAD\DWG\CONSTR\RDWAY\DRK_Plan11-0211.dwg

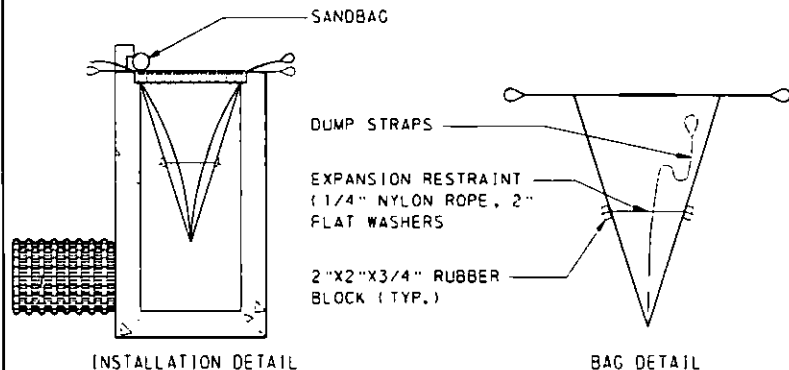
J:\PHOTO\60911-00\CA\BIBL\K&S\IP Line Ch. E&S2.dgn
 3/24/2016



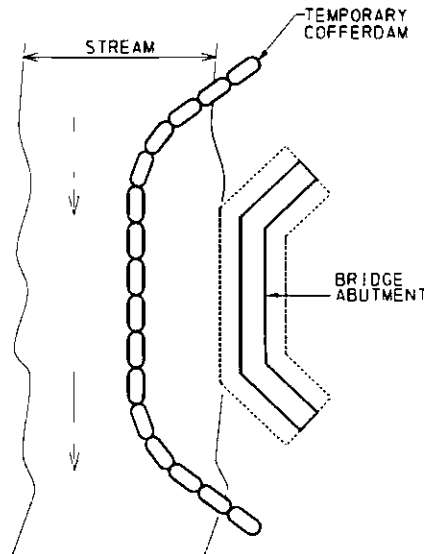
NOTES:
 ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. WASHING OF THE ROADWAY WITH WATER IS NOT PERMITTED. THE ROCK CONSTRUCTION ENTRANCE WILL BE PLACED IN LOCATIONS DETERMINED BY THE CONTRACTOR.

ROCK CONSTRUCTION ENTRANCE

NO SCALE



IN-STREAM COFFERDAM DIVERSION DETAIL

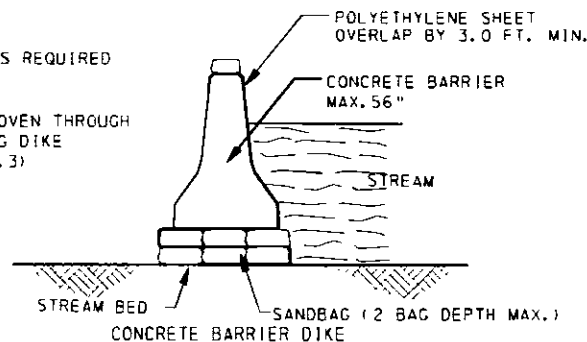
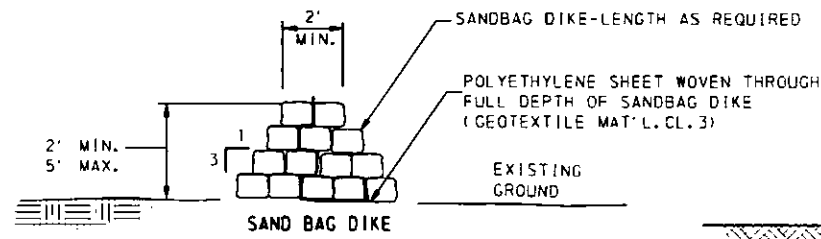
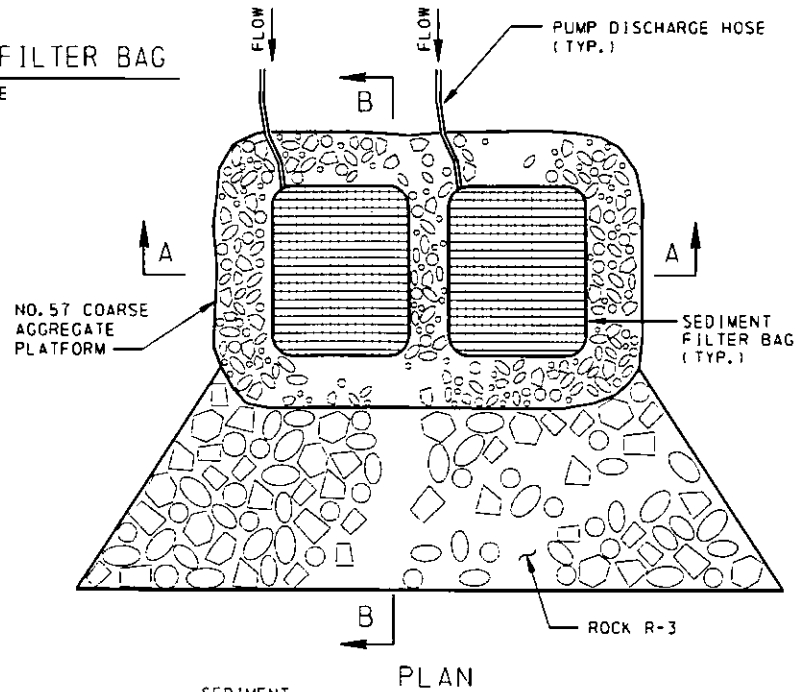


NOTES

1. PLACE PUMPED WATER FILTER BAGS AT LOCATIONS AS DETERMINED BY THE CONTRACTOR. FILTER BAGS MAY BE USED ON LOW VOLUME Dewatering OPERATIONS NOT TO EXCEED 3785 LITERS (1000 GALLONS) PER MINUTE.
2. CLEAR SITE BUT DO NOT CRUB.
3. INSPECT AREA TO DETERMINE PATH DISCHARGE WATER WILL TAKE. STABILIZE ANY POTENTIALLY ERODABLE AREAS (STEEP SLOPES).
4. CONSTRUCT COARSE AGGREGATE PLATFORM SURFACE LEVEL. PLACE SEDIMENT FILTER BAG ON STABILIZED AREA.
5. IF THE EXISTING AREA IS STABILIZED, STRAW MAY BE USED INSTEAD OF #57 COARSE AGGREGATE. PLACE BAG OVER STRAW DISTRIBUTED AT THE RATE OF 1 BALE PER 3m (30 SQ. FT.).
6. USE PUMP WITH A RATING IN GALLONS PER MINUTE NOT TO EXCEED 50% OF THE MAXIMUM FLOW RATE LISTED ON THE BAG LABEL. DOUBLE CLAMP THE PUMP DISCHARGE HOSE FIRMLY TO THE BAG.
7. MONITOR AND EVALUATE THE ENTIRE PUMPING OPERATION TO ASSURE THAT THE BAG CONTINUES TO FUNCTION PROPERLY. REPLACE THE BAG WHEN THE CONTAINED SILT REDUCES THE BAGS FLOW TO APPROXIMATELY 50% OF THE RATE OF INITIAL DISCHARGE, OR WHEN DIRECTED BY INSPECTOR-IN-CHARGE. DISPOSE OF SEDIMENT IN A MANNER SATISFACTORY TO THE ENGINEER. RESTORE THE AREA AS SPECIFIED IN SECTION 105.14. THE PUMPED WATER FILTER BAG WILL BE DISPOSED OF AT AN APPROVED DISPOSAL SITE.

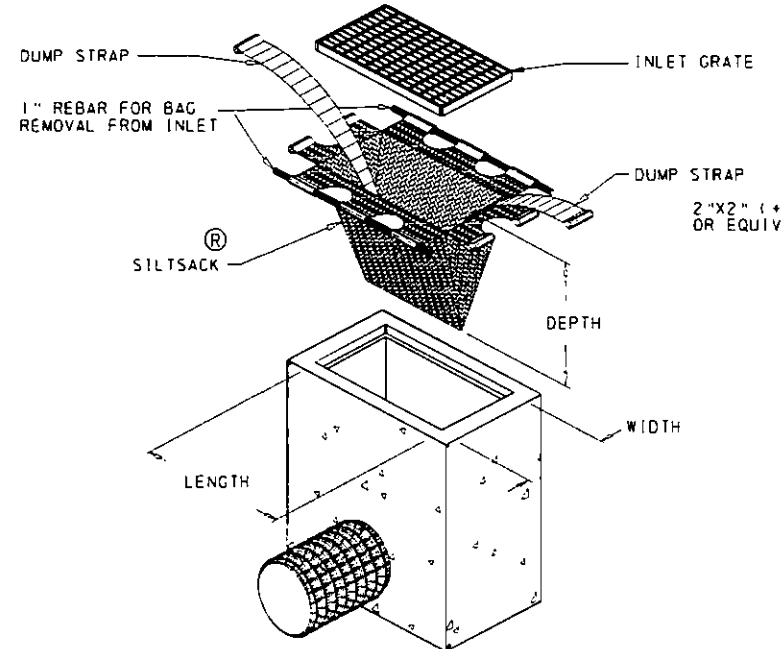
PUMPED WATER FILTER BAG

NO SCALE

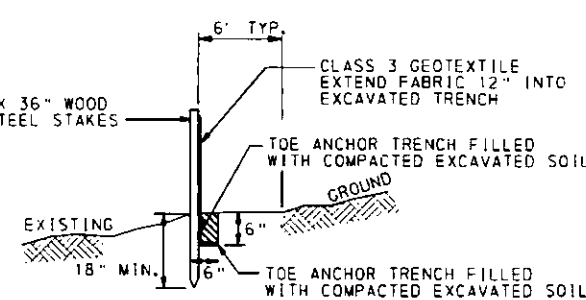


TEMPORARY COFFERDAM

NO SCALE
 ITEM NO. 9000-0004

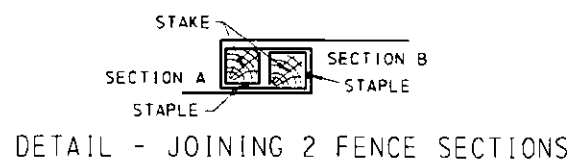


NOTE: REPLACE OR REMOVE AND CLEAN SEDIMENT SACK WHEN CONTAINED SILT REDUCES FLOW TO APPROXIMATELY 50% OF RATE OF INITIAL SACK CAPACITY. LOW FLOW VARIETY WILL BE USED.



SILT BARRIER FENCE - 18" HEIGHT

NO SCALE
 ITEM NO. 4865-0001



NO SCALE

SILT BARRIER FABRIC FENCE GEOTEXTILE SELECTION

TYPE OF CLASS 3 GEOTEXTILE MATERIAL	NOMINAL FABRIC HEIGHT	MAXIMUM POST SPACING WITHOUT MESH SUPPORT	MAXIMUM POST SPACING WITH MESH SUPPORT
3A	18"	8'-0"	N/A
3A	30"	N/A	8'-0"
3B	18"	4'-0"	N/A
3B	30"	N/A	4'-0"

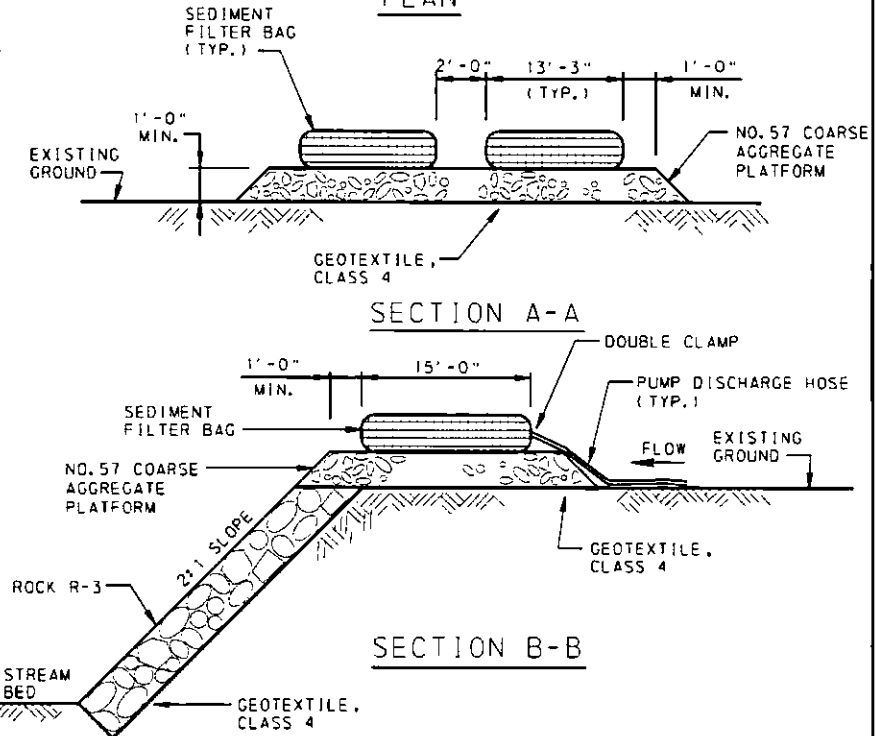
N/A - NOT APPLICABLE

NOTE:

INSTALL FENCE AT LEVEL GRADE. EXTEND BOTH ENDS OF FENCE 8 FEET UPSLOPE AT 45 DEGREES TO MAIN FENCE ALIGNMENT.

SEDIMENT TO BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE FENCE.

ANY SECTION OF FENCE UNDERMINED OR TOPPED MUST BE REPLACED WITHIN 24 HOURS WITH A ROCK FILTER OUTLET. COST INCIDENTAL TO SILT BARRIER FENCE, 18" HEIGHT.



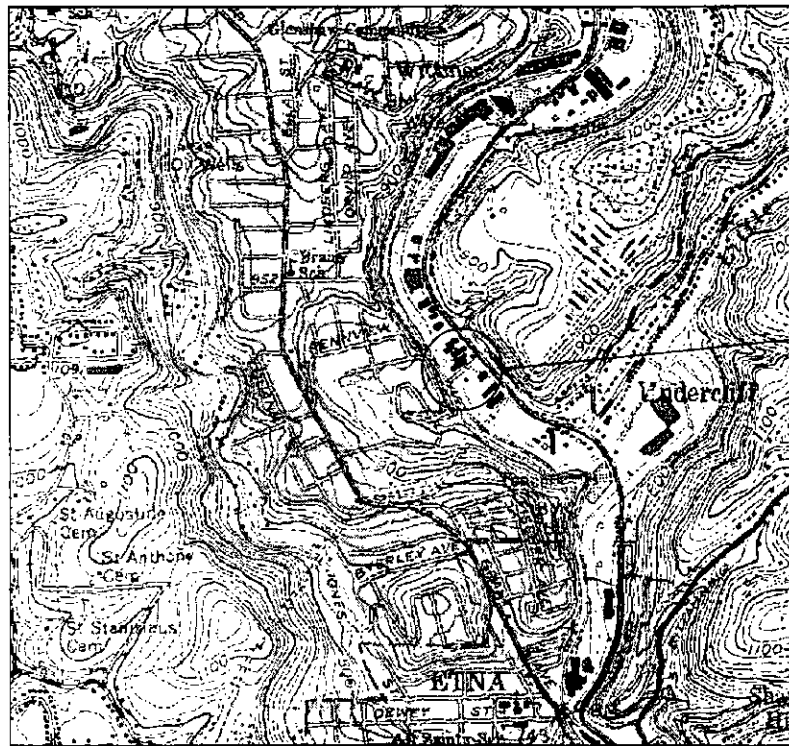
County of Allegheny
 Pittsburgh, Pennsylvania
 Department of Public Works

CONSTRUCTION DRAWING
 EROSION & SEDIMENT
 POLLUTION CONTROL PLAN
 PINE CREEK BRIDGE NO. II

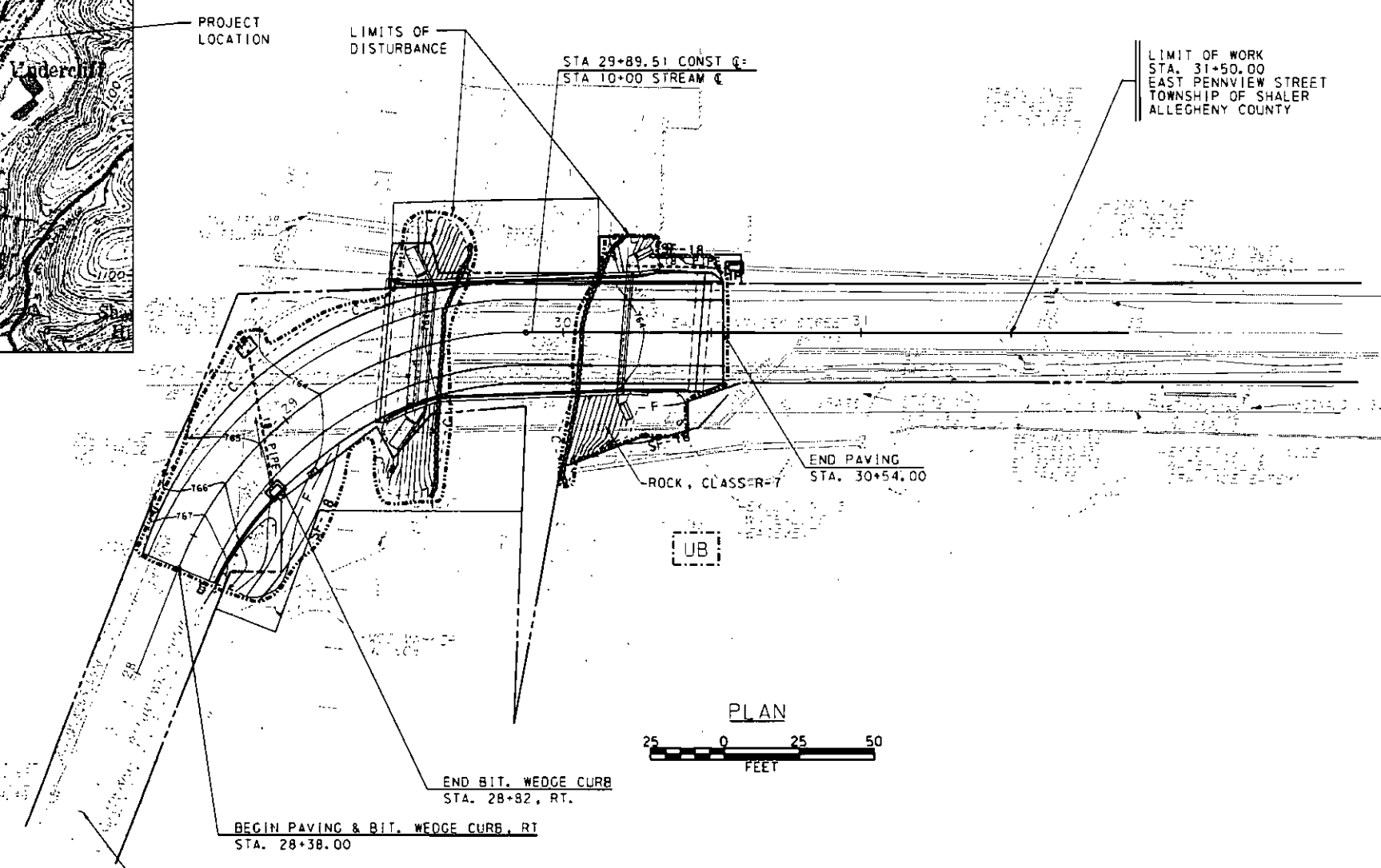
PI11-0211

DES.	NLK	DRW.	JRA	CHK.	JAS
DATE	7/10	SCALE	AS NOTED	SHEET	2 OF 4

26048



LOCATION MAP



PLAN



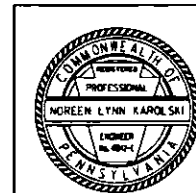
HORIZONTAL CURVE DATA
EAST PENNVIEW STREET

P. I. STA. 29+23.00
 $\Delta = 68^{\circ} 24' 01''$ RT.
 $D = 45^{\circ} 50' 12''$
 $T = 84.95'$
 $L = 149.26'$
 $R = 125.00'$
 $E = 26.13'$
 PC STA. = 28+38.05
 PT STA. = 29+87.28

LEGEND

- SB/18" SILT BARRIER FENCE 18"
- 760--- EXISTING CONTOUR
- 765— PROPOSED CONTOUR
- UB URBAN LAND SOILS TYPE
- F CONSTRUCTION SLOPE LIMIT
- LIMIT OF DISTURBANCE
- IP INLET PROTECTION
- COFFERDAM

LIMIT OF WORK
 STA. 27+50.00
 EAST PENNVIEW STREET
 TOWNSHIP OF SHALER
 ALLEGHENY COUNTY



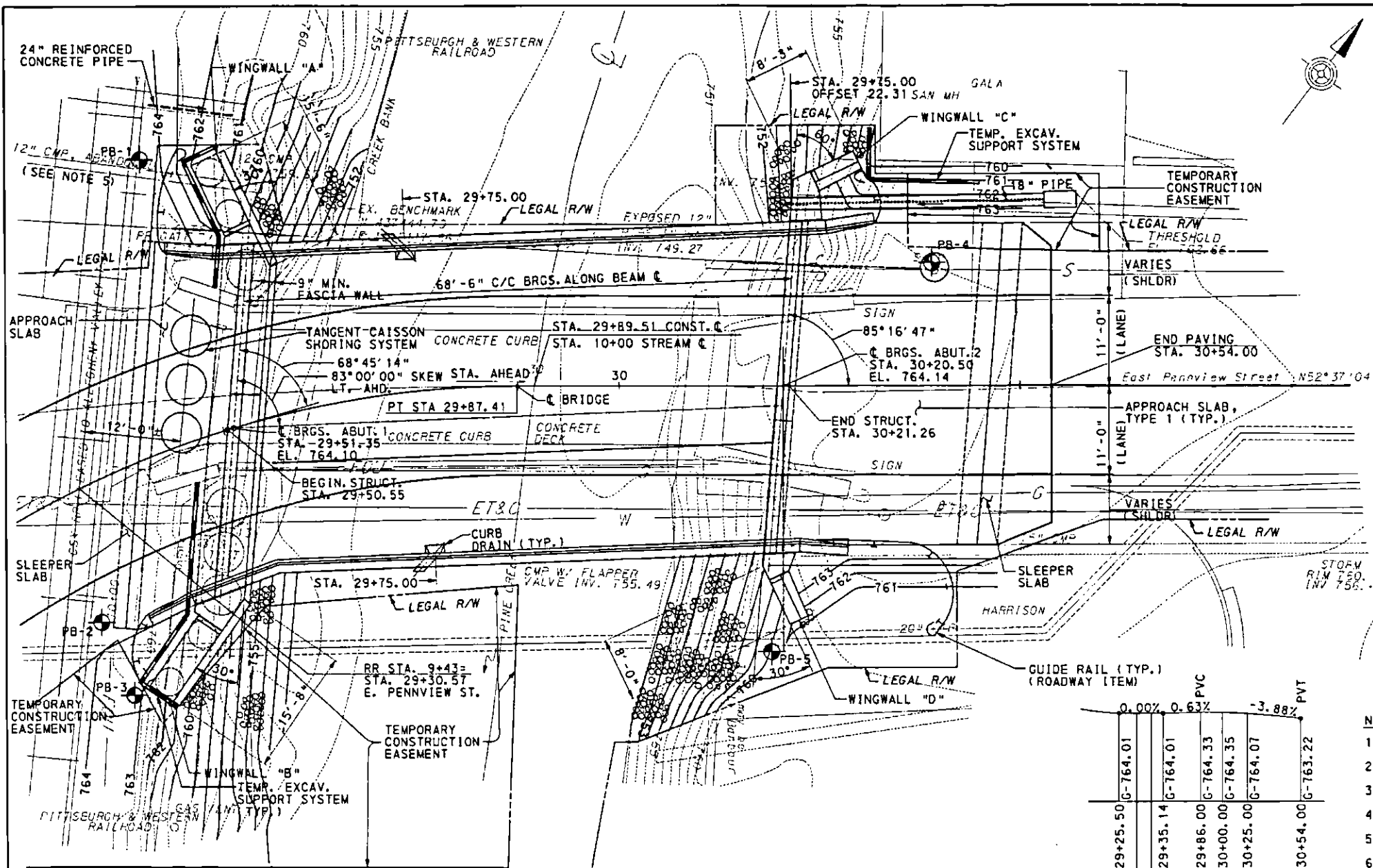
REVISIONS			

County of Allegheny
 Pittsburgh, Pennsylvania
 Department of Public Works

CONSTRUCTION DRAWING
 EROSION & SEDIMENT
 POLLUTION CONTROL PLAN

PINE CREEK BRIDGE NO. II
 P111-0211

DES. NLK	DRW. JRA	CHK. JAS	26048
DATE 7/10	SCALE AS NOTED	SHEET 4 OF 4	



STRUCTURE TEST BORINGS (DRILLED LOCATIONS)				
BORING NO.	STATION	OFFSET FROM CONSTR. C.	SURFACE ELEVATION	DEPTH
PB-1	29+50.00	24' LT.	763.8'	44.6'
PB-2	29+25.00	16' RT.	763.2'	44.5'
PB-3	29+16.00	26' RT.	762.7'	44.0'
PB-4	30+39.00	15' LT.	763.2'	49.7'
PB-5	30+22.00	33' RT.	758.2'	49.5'

NOTE: OFFSET IS MEASURED PERPENDICULAR TO CONSTR. C., LOOKING AHEAD STATIONS.

EXISTING STRUCTURE INFORMATION:

- DATE BUILT: 1902
- TYPE OF SUPERSTRUCTURE: STEEL THROUGH GIRDER
- TYPE OF SUBSTRUCTURE: CUT STONE ABUTMENTS
- TYPE OF FOUNDATION: SHALLOW, MASSIVE FOUNDATION
- BOTTOM OF FOOTING ELEV.: 746.8 (NEAR ABUT.)
745.7 (FAR ABUT.)
(1902 AS-BUILTS)
- STREAM BED ELEV.: 751.6 (AVE. AT BRIDGE)
- WATERWAY OPENING: 550 SF EXISTING
566 SF PROPOSED

VERTICAL CURVE DATA

PVI STA = 29+35.14
ELEV = 764.01
NO CURVE

PVI STA = 30+20.00
PVI EL = 764.54
V.C. = 68.00'
M.O. = -0.38'
S.S.O. = 273'

HORIZONTAL CURVE DATA EAST PENNVIEW STREET

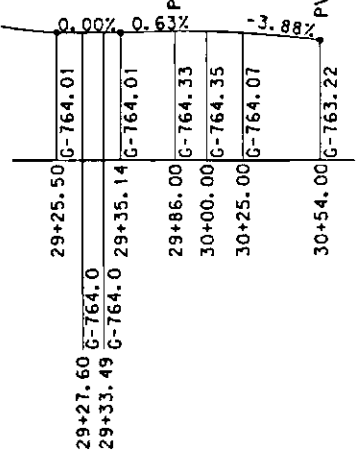
P.I. STA. 29+23.11
Δ = 68°26'08" RT.
D = 45°50'12"
T = 85.01'
L = 149.30'
R = 125.00'
E = 26.17'
PC STA. = 28+38.10
PT STA. = 29+87.41

HYDRAULIC DATA

DRAINAGE AREA = 55.15 sq. mi.
DESIGN FLOOD: MAGNITUDE = 4,263 cfs
FREQUENCY = 10 YEAR
100 YEAR FLOOD: MAGNITUDE = 8,957 cfs

NOTES:

- FOR GENERAL NOTES, SEE SHEET 2.
- FOR TYPICAL SECTION, SEE SHEET 3.
- FOR BRIDGE RATINGS, SEE SHEET 42.
- COORDINATE GRADING WITH ROADWAY PLAN.
- ABANDONED 12" CMP, VERIFY IN THE FIELD.
- DEWATER ALL EXCAVATIONS PRIOR TO THE REPLACEMENT OF CONCRETE.
- THE 6" EXISTING STRUCTURE MOUNTED GAS LINE WILL BE CUT AND CAPPED AT EACH END OF THE PROPOSED STRUCTURE LIMITS BY THE UTILITY PROVIDER BEFORE BRIDGE WORK BEGINS. THE ABANDONED REMAINING LINE ON THE BRIDGE WILL BE REMOVED AS PART OF THE EXISTING STRUCTURE DEMOLITION.
- THE EXISTING 8" WATER LINE WILL BE CUT AND TAPPED INTO THE 20" HIGH PRESSURE LINE ON EACH SIDE OF THE PROPOSED STRUCTURE LIMITS BEFORE BRIDGE WORK BEGINS, THE EXISTING LINE WILL BE ABANDONED IN PLACE.

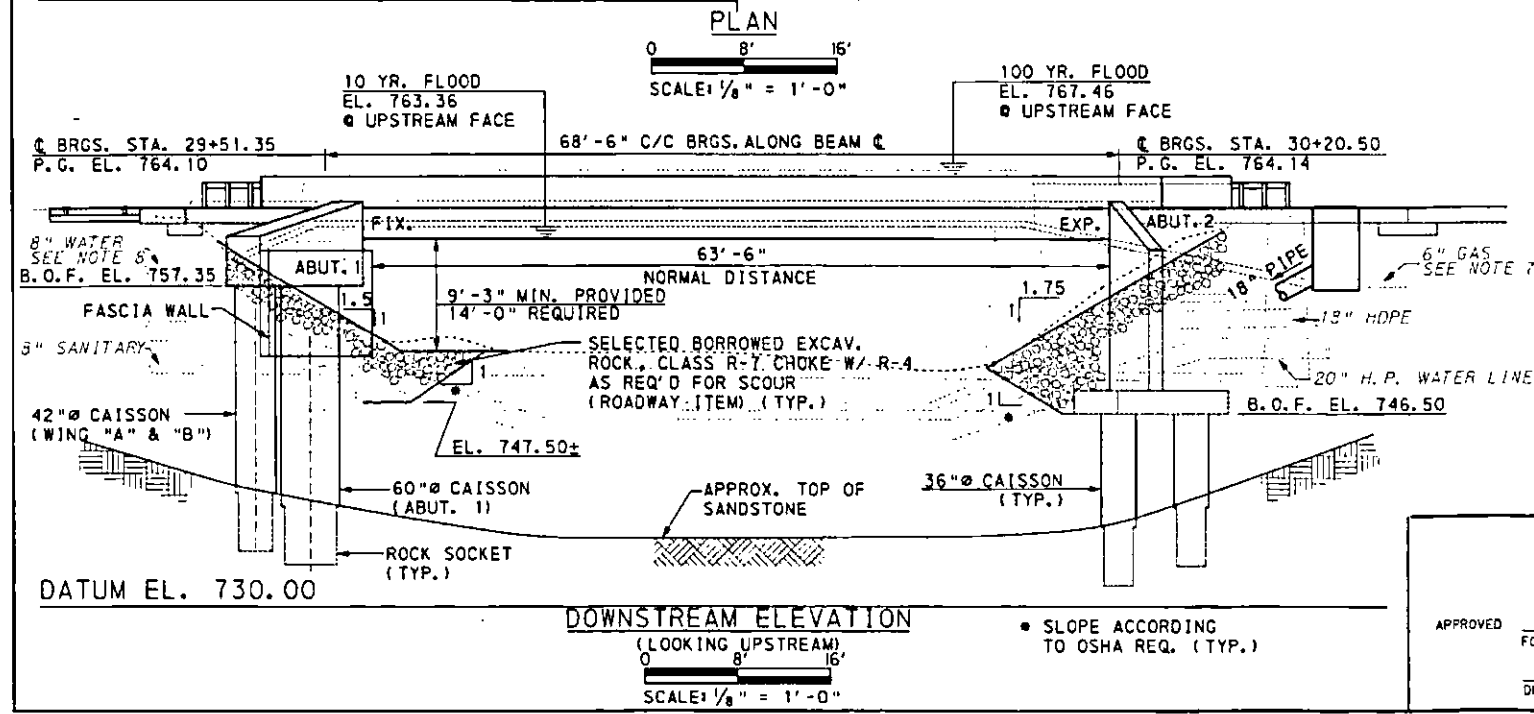


VERTICAL PROFILE DATA

N.T.S.

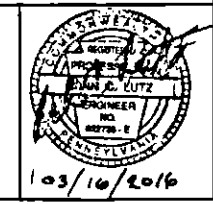
LEGEND:

- EXISTING CONTOURS
- PROPOSED CONTOURS
- CORE BORING LOCATIONS
- DIRECTION OF TRAFFIC
- B.O.F. BOTTOM OF FOOTING
- SELECTED BORROWED EXCAVATION ROCK, CLASS R-7 CHOKED WITH R-4



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BPAA NO. 02-3008

APPROVED **MARCH 21** 2016
FOR STRUCTURAL ADEQUACY ONLY
James J. Rugg
DISTRICT BRIDGE ENGINEER



BMS NO. 02 7118 0000 2611

County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
GENERAL PLAN & ELEVATION
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 1 OF 46	

3/16/2016
J:\PROJECTS\1-00\CADD\STRUCTURE\FINAL DESIGN\PINECREEK_SHT1_GENERAL PLAN & ELEVATION.dgn

GENERAL NOTES

DESIGN SPECIFICATIONS:

- AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 2010, AND AS SUPPLEMENTED BY DESIGN MANUAL, PART 4, MAY 2012.
- LIVE LOAD DISTRIBUTION TO BEAMS IS BASED UPON DM-4 DISTRIBUTION FACTOR METHOD.
- DESIGN IS IN ACCORDANCE WITH THE LRFD METHOD.

DESIGN LIVE LOADS:

- PHL-93 OR P-82 (204 kip PERMIT LOAD)
- FATIGUE DESIGN IS BASED ON THE FOLLOWING:
PRESTRESSED CONCRETE: ADTT 130 (2035)
(ONE-DIRECTIONAL)
- MAXIMUM ALLOWABLE TENSILE STRESS IN PRECOMPRESSED TENSILE ZONE:
= 0.0948 σ_c .

DEAD LOADS:

- INCLUDES A SURFACE AREA DENSITY OF 30 PSF FOR FUTURE WEARING SURFACE ON THE DECK SLAB.

GENERAL:

- PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH SPECIFICATIONS, PUBLICATION 408/2011, AASHTO/AWS D1.5M/D1.5:2008 BRIDGE WELDING CODE, AND CONTRACT SPECIAL PROVISIONS. USE AASHTO/AWS D1.1/D1.1M:2010 FOR WELDING NOT COVERED IN AASHTO/AWS D1.5M/D1.5:2008.
- STATIONS AND ELEVATIONS ARE GIVEN IN FEET UNLESS OTHERWISE NOTED.
- PROVIDE 2" CONCRETE COVER ON REINFORCEMENT BARS, EXCEPT AS NOTED.
- USE CLASS AAAP CEMENT CONCRETE IN:
DECK SLAB
- USE CLASS AA CEMENT CONCRETE IN:
BARRIERS
CHEEKWALLS
APPROACH SLAB
SLEEPER SLAB
BEAM SEAT
WINGWALL ABOVE BEAM SEAT CONSTRUCTION JOINT
- USE CLASS A CEMENT CONCRETE IN:
ABUTMENTS BELOW BEAM SEAT
WINGWALLS
FOOTINGS
DRILLED CAISSONS
FASCIA WALL
- USE TYPE II CEMENT FOR ALL SUBSTRUCTURES, INCLUDING CAISSONS.
- USE CLASS C CEMENT CONCRETE BELOW THE BOTTOM OF FOOTINGS WHEN SPECIFIED.
- A HIGHER CLASS CONCRETE MAY BE SUBSTITUTED FOR A LOWER CLASS CONCRETE AT NO ADDITIONAL COST TO THE DEPARTMENT.
- PROVIDE GRADE 60 REINFORCING STEEL BARS THAT MEET THE REQUIREMENTS OF ASTM A 615/A 615M, A 996/A 996M, OR 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. DO NOT USE RAIL STEEL A 996/A 996M REINFORCEMENT BARS IN BRIDGE ABUTMENTS, SHEAR BLOCKS, BEAMS, FOOTINGS, PILES, BARRIERS OR WHERE BENDING OR WELDING OF THE REINFORCEMENT BARS ARE INDICATED.
- ALL REINFORCEMENT REBARS ARE TO BE EPOXY-COATED EXCEPT AS NOTED.
- GALVANIZED REINFORCING STEEL BARS MAY BE SUBSTITUTED FOR EPOXY-COATED REINFORCING STEEL BARS AT NO ADDITIONAL COST TO THE DEPARTMENT.
- RAKE-FINISH ALL HORIZONTAL CONSTRUCTION JOINTS, EXCEPT AS INDICATED.
- SITE CLASS IS NOT CLASS E.
- VERIFY ALL DIMENSIONS AND GEOMETRY OF THE EXISTING STRUCTURE IN THE FIELD AS NECESSARY FOR PROPER FIT OF THE PROPOSED CONSTRUCTION.
- CONSTRUCT DECK SLAB TRANSVERSE CONSTRUCTION JOINTS PARALLEL TO BRIDGE CENTERLINE OF BEARINGS.
- APPLY PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES TO ALL EXPOSED CONCRETE SURFACES, EXCEPT BEAM SEATS, DOWN TO 2 FEET BELOW FINISHED GRADE, INCIDENTAL TO LUMP SUM STRUCTURE ITEM.
- JACK SUPERSTRUCTURE AT ABUTMENT 2 TO RELIEVE STRESS IN ELASTOMERIC BEARING PAD, AS REQUIRED, IN ACCORDANCE WITH SPECIAL PROVISIONS.
- PLACE CHEEKWALLS AFTER BEAMS HAVE BEEN SET IN POSITION AND TENDONS STRESSED.
- CHAMFER EXPOSED CONCRETE EDGES 1 IN BY 1 IN, EXCEPT AS NOTED.
- ALL DIMENSIONS SHOWN ARE HORIZONTAL, EXCEPT AS NOTED.
- DECK SLAB THICKNESS INCLUDES A 1/2" INTEGRAL WEARING SURFACE.
- PREPARE BEARING AREAS AS SPECIFIED IN PUBLICATION 408, SECTION 1001.3(k)9.
- PROVIDE MINIMUM EMBEDMENT AND SPLICE LENGTHS IN ACCORDANCE WITH STANDARD DRAWING BC-736M, UNLESS OTHERWISE INDICATED.

- SUPERSTRUCTURE DIMENSIONS SHOWN ARE FOR A NORMAL TEMPERATURE OF 68° F.
- NOTIFY THE REGIONAL HEADQUARTERS OF THE FISH COMMISSION PRIOR TO CONSTRUCTION AND COOPERATE WITH THE FISH COMMISSION DURING CONSTRUCTION. THE WATERWAY CONSERVATION OFFICER FOR THIS PROJECT IS NAME: MICHAEL WALSH
ADDRESS: 236 LAKE ROAD, SOMERSET, PA. 15501
TELEPHONE: (814) 445-8974

UTILITY NOTES:

- COORDINATE, LOCATE, AND CONDUCT ALL WORK RELATED TO PUBLIC AND PRIVATE UTILITIES IN ACCORDANCE WITH PUB. 408/2011, SECTIONS 105.06 AND 107.12.

APPROACH SLAB NOTES:

- CONSTRUCT BRIDGE APPROACH SLABS AFTER DECK SLAB IS CONSTRUCTED.
- PLACE CONCRETE IN ONE CONTINUOUS OPERATION, UNLESS OTHERWISE INDICATED OR DIRECTED.
- TRANSVERSE CONSTRUCTION JOINTS ARE NOT PERMITTED IN THE CONCRETE APPROACH SLABS OR SLEEPER SLABS, UNLESS OTHERWISE DIRECTED.

DRILLED CAISSON NOTES:

- CONSTRUCT DRILLED CAISSONS IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
- TEST HOLES ARE REQUIRED AT ALL CAISSON LOCATIONS.
- IT IS ANTICIPATED THAT DEWATERING OF EXCAVATION WILL BE NECESSARY DURING CONSTRUCTION. KEEP STORM WATER RUNOFF OUT OF THE EXCAVATION. ALL CONCRETE AND REINFORCED BACKFILL MUST BE PLACED ON A FOUNDATION SURFACE WITH NO DEBRIS OF LOOSE MATERIAL AND NO SURFACE WATER. EXCAVATIONS SHOULD FOLLOW THE PENNDOT STANDARD DRAWINGS AND OSHA REQUIREMENTS. IF REQUIREMENTS CONFLICT, FOLLOW THE STRICTER REQUIREMENT.
- IF DEVIATIONS FROM THE NOTED FOUNDATION CONDITIONS ARE ENCOUNTERED DURING CONSTRUCTION, IMMEDIATELY BRING TO THE ATTENTION OF THE ALLEGHENY COUNTY ENGINEER.
- DO NOT EXCAVATE SIMULTANEOUSLY FOR ADJACENT CAISSONS IF THE DISTANCE BETWEEN THE CAISSON IS LESS THAN 3 TIMES THE DIAMETER OF THE LARGEST CAISSON. IN SUCH CASES, DRILL ONE HOLE, PLACE CONCRETE AND ALLOW CONCRETE TO CURE FOR 72 HOURS BEFORE DRILLING ADJACENT HOLE.
- BLASTING IS NOT PERMITTED FOR ROCK EXCAVATION.
- USE DRILLING TECHNIQUES AND PROCEDURES THAT WILL NOT JEOPARDIZE THE SAFETY OF THE WORK CREW OR GENERAL PUBLIC. PROVIDE SAFETY AND PROTECTION AT ALL TIMES FOR PUBLIC, COUNTY PERSONNEL AND WORKERS.
- ESTABLISH A PERMIT-REQUIRED, CONFINE SPACE ENTRY PROGRAM IN ACCORDANCE WITH OSHA'S 29 CFR 1910.146 TO RESTRICT ACCESS AND CONTROL ENTRY AT EACH EXCAVATION.
- PROVIDE GAS TESTING EQUIPMENT AND CHECK EACH DRILLED CAISSON FOUNDATION FOR BOTH TOXIC AND EXPLOSIVE GASES IN ACCORDANCE WITH THE ESTABLISHED PERMIT-REQUIRED, CONFINED SPACE ENTRY PROGRAM PRIOR TO PERSONNEL ENTERING. NOTIFY THE PROJECT MANAGER IMMEDIATELY UPON DISCOVERY OF TOXIC AND/OR EXPLOSIVE GASES.
- EXERCISE EXTREME CARE AT EXISTING UTILITIES AND COOPERATE WITH THE NECESSARY AUTHORITIES TO SHUT OFF VALVES, SWITCHES, AND MAKE DISCONNECTIONS AS REQUIRED.
- THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF ALL EMBANKMENTS AND EXCAVATED SLOPES, IF USED. DIVERT ALL SURFACE RUNOFF AWAY FROM EMBANKMENTS IN CONSTRUCTION AND EXCAVATIONS. PERFORM EMBANKMENT CONSTRUCTION AND EXCAVATIONS IN ACCORDANCE WITH PENNDOT PUB. 408, SECTION 206 AND OSHA REQUIREMENTS AS APPROPRIATE.
- DO NOT PLACE REINFORCEMENT BAR CAGE IN THE DRILLED SHAFT UNTIL TEST HOLES ARE APPROVED.

EXISTING STRUCTURE

- DO NOT CONSIDER ANY OF THE DATA ON THE EXISTING STRUCTURE SUPPLIED IN THE ORIGINAL DESIGN DRAWINGS OR MADE AVAILABLE TO YOU BY THE COUNTY OR ITS AUTHORIZED AGENTS AS POSITIVE REPRESENTATIONS OF ANY OF THE CONDITIONS THAT YOU WILL ENCOUNTER IN THE FIELD.
- THE INFORMATION SHOWN ON THE PLANS FOR THE EXISTING BRIDGE IS NOT PART OF THE PLANS, PROPOSAL, OR CONTRACT AND IS NOT TO BE CONSIDERED A BASIS FOR COMPUTATION OF THE UNIT PRICES USED FOR BIDDING PURPOSES. THERE IS NO EXPRESSED OR IMPLIED AGREEMENT THAT THE INFORMATION IS CORRECTLY SHOWN. THE BIDDER IS NOT TO RELY ON THIS INFORMATION, BUT IS TO ASSUME THE POSSIBILITY THAT CONDITIONS AFFECTING THE COST AND/OR QUANTITIES OF WORK TO BE PERFORMED MAY DIFFER FROM THOSE INDICATED.
- THE EXISTING BRIDGE STRUCTURAL MEMBERS CONTAIN LEAD PAINT AND OTHER TOXIC MATERIALS BASED ON THE AGE OF THE STRUCTURE.

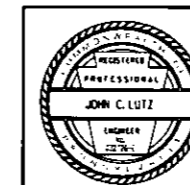
INDEX OF DRAWINGS

SHEET NO.	TITLE
1	GENERAL PLAN & ELEVATION
2	GENERAL NOTES & INDEX OF DRAWINGS
3	TYPICAL SECTION & QUANTITIES
4	STAKE-OUT PLAN
5	ABUTMENT 1 PLAN AND ELEVATION
6	ABUTMENT 1 CAISSON CAP PLAN AND ELEVATION
7	ABUTMENT 1 SECTIONS AND DETAILS
8	ABUTMENT 1 CAISSON PLAN
9	ABUTMENT 1 CAISSON DETAILS
10	ABUTMENT 1 TANGENT CAISSON DETAILS
11	ABUTMENT 1 BEAM SEAT & FASCIA WALL PLAN & ELEVATION
12	ABUTMENT 1 FASCIA WALL SECTIONS & DETAILS
13	ABUTMENT 1 BEAM SEAT DETAILS AND ELEVATION TABLE
14	ABUTMENT 1 WINGWALLS "A" AND "B"
15	ABUTMENT 1 WINGWALLS "A" AND "B" CAISSON DETAILS
16	ABUTMENT 1 REBAR SCHEDULE
17	ABUTMENT 2 PLAN AND ELEVATION
18	ABUTMENT 2 SECTIONS AND DETAILS
19	ABUTMENT 2 FOOTING PLAN 1
20	ABUTMENT 2 FOOTING PLAN 2
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22	ABUTMENT 2 CAISSON PLAN
23	ABUTMENT 2 CAISSON DETAILS
24	ABUTMENT 2 BEAM SEAT PLAN AND ELEVATION
25	ABUTMENT 2 BEAM SEAT DETAILS AND ELEVATION TABLE
26	ABUTMENT 2 WINGWALL "C"
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31	BOX BEAM FABRICATION DETAILS-2
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34	DECK SLAB PLAN
35	DECK SLAB TYPICAL SECTION AND ELEVATION TABLES
36	DECK SLAB PLACEMENT AND BARRIER PLAN
37	BARRIER DETAILS
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39	APPROACH SLAB - ABUT 2
40	APPROACH SLAB DETAILS
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42	RATING TABLES
43	MOMENT, SHEAR AND BEAM PROPERTIES
44	STRUCTURE BORINGS - 1
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46	STRUCTURE BORINGS - 3

REVISIONS

County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
**GENERAL NOTES &
INDEX OF DRAWINGS**
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211



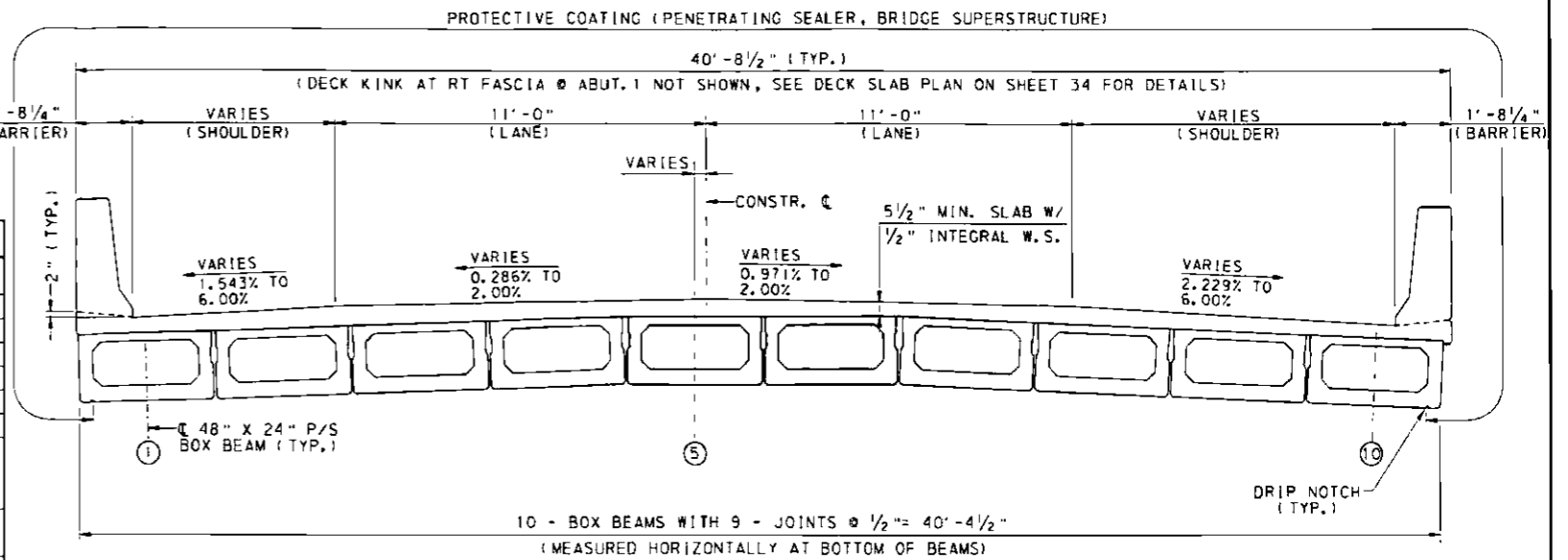
DES. MRW	DRW. ADC	CHK. JCL
DATE 12/2015	SCALE	SHEET 2 OF 46

26048

ALTERNATE STRUCTURE ITEMS			
ITEM NO.	ITEM	UNIT	TOTAL
8020-0001	BRIDGE STRUCTURE, AS DESIGNED, BPAA 02-3008	LS	LUMP SUM
8000-0001	PRESTRESSED CONCRETE BRIDGE STRUCTURE	LS	LUMP SUM
8100-0001	STEEL BRIDGE STRUCTURE	LS	LUMP SUM

APPROXIMATE QUANTITIES - BRIDGE STRUCTURE AS DESIGNED									
ITEM NO.	NOTE	ITEM	UNIT	ABUT. 1	ABUT. 2	SUPER.	APPR. SLAB ABUT. 1	APPR. SLAB ABUT. 2	TOTAL
8020-0001	(1)	BRIDGE STRUCTURE, AS DESIGNED, BPAA 02-3008	LS						LS
	(1)	CLASS 3 EXCAVATION	CY	203	847				1050
	(1)	CLASS AAAP CEMENT CONCRETE	CY			80			80
	(1)	CLASS AA CEMENT CONCRETE	CY	10	9	30	36	63	148
	(1)	CLASS A CEMENT CONCRETE	CY	55	110				165
	(1)	SELECTED BORROW EXCAVATION, STRUCTURE BACKFILL	CY	95	284				379
	(1)(4)	PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES (PENETRATING SEALERS, BRIDGE SUPERSTRUCTURE)	SY			410			410
	(1)	TEXTURIZING CONCRETE BRIDGE DECK SURFACES WITH TRANSVERSE SAWED GROOVES	SY			410			410
	(1)	METAL CURB DRAINS	EACH			2			2
	(1)	PRESTRESSED CONCRETE ADJACENT BOX BEAMS, 48"x24"	LF			701			701
AND									
1002-0053	(5)	REINFORCEMENT BARS, EPOXY COATED	LB	11765	14159	10321	8259	12189	56693
AND									
1006-0610		TEST HOLES	LF	368	224				592
AND									
9000-0101		60" DIA. DRILLED CAISSONS, SHAFT SECTION	LF	133					133
AND									
9000-0102		60" INSIDE DIAMETER PERMANENT CASING FOR DRILLED CAISSONS	LF	133					133
AND									
9000-0103		54" DIA. DRILLED CAISSONS, ROCK SOCKET	LF	35					35
AND									
9000-0104		42" DIA. DRILLED CAISSONS, SHAFT SECTION	LF	70					70
AND									
9000-0105		42" INSIDE DIAMETER PERMANENT CASING FOR DRILLED CAISSONS	LF	70					70
AND									
9000-0106		36" DIA. DRILLED CAISSONS, ROCK SOCKET	LF	20					20
AND									
9000-0107		36" DIA. DRILLED CAISSONS, SHAFT SECTION	LF		84				84
AND									
9000-0108		36" INSIDE DIAMETER PERMANENT CASING FOR DRILLED CAISSONS	LF		84				84
AND									
9000-0109		30" DIA. DRILLED CAISSONS, ROCK SOCKET	LF		50				50
AND									
9000-0110		CSL TESTING	EACH	11	10				21
AND									
9000-0111		HQ CORING	LF	25	25				50
AND									
9000-0112		TIP TESTING	EACH	11	10				21
AND									
9006-0113		TECHNIQUE SHAFT	LS			LS			LS

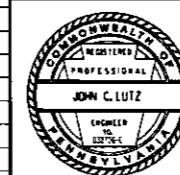
NOTES:
 (1) ITEMS AND QUANTITIES IN BRIDGE STRUCTURE LUMP SUM ITEM 8020-0001 - GIVEN FOR INFORMATION ONLY.
 (2) INCLUDES CLASS AA CONCRETE IN CHEEKWALLS, BEAM SEAT.
 (3) INCLUDES CLASS AA CONCRETE IN APPROACH SLAB AND SLEEPER SLAB.
 (4) APPLY IN ACCORDANCE WITH PUBLICATION 408, SECTION 1019.3(c)2.
 (5) FOR AS DESIGNED STRUCTURE, INCLUDED IN BRIDGE BID ITEMS. FOR ALTERNATE DESIGNS, INCLUDED IN BRIDGE STRUCTURE LUMP SUM BID ITEM.



TYPICAL SECTION
N. T. S.

NOTES:
 1. FOR GENERAL PLAN & ELEVATION, SEE SHEET 1.
 2. FOR GENERAL NOTES, SEE SHEET 2.

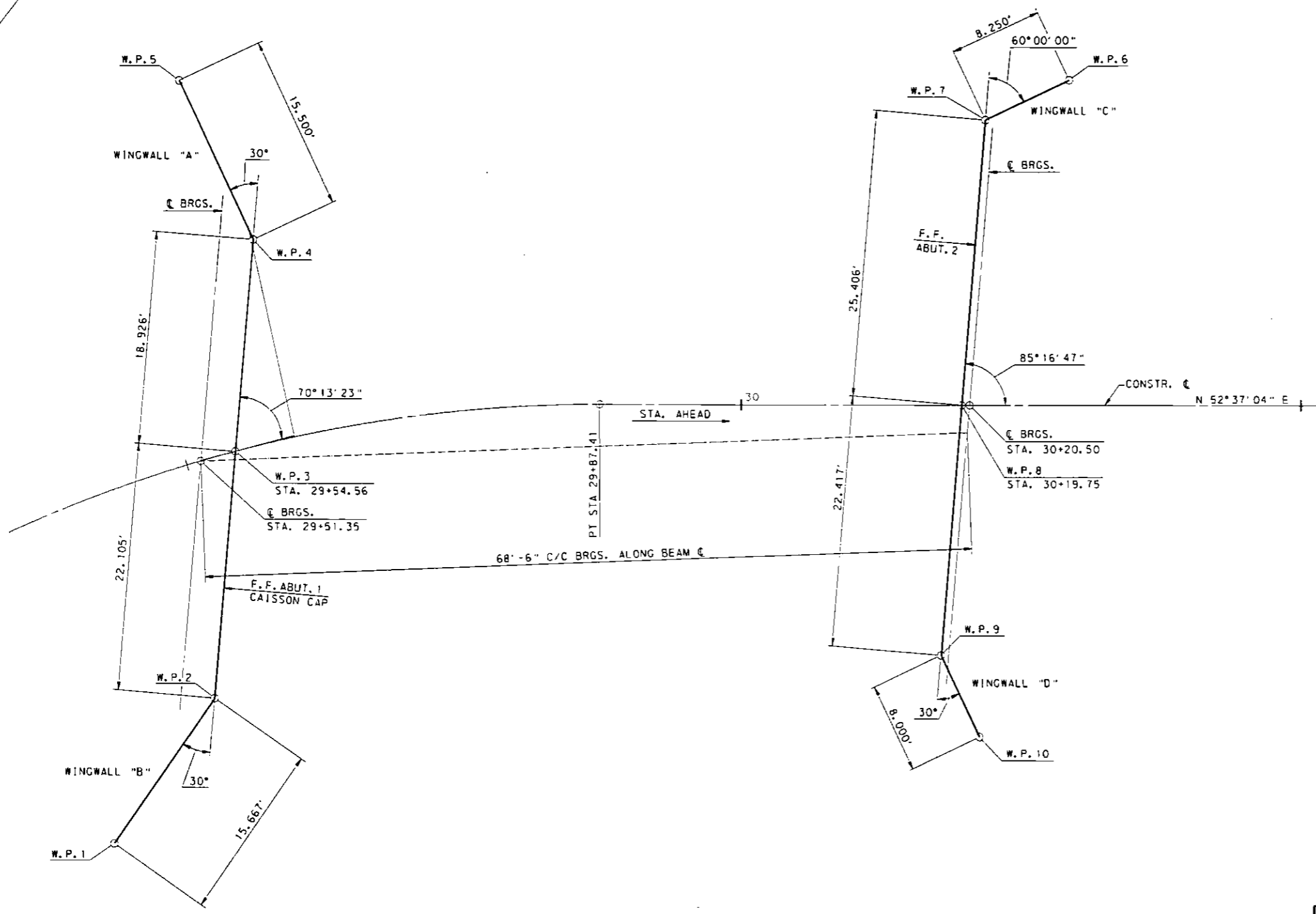
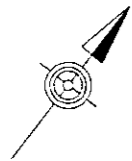
SUPPLEMENTAL DRAWINGS		
DESCRIPTION	DWG. NO.	REC'D DATE
ANCHOR SYSTEMS	BC-734M	10-26-10
WALL CONSTRUCTION & EXPANSION JOINT DETAILS	BC-735M	10-26-10
REINFORCEMENT BAR FABRICATION DETAILS	BC-736M	05-18-12
BRIDGE BARRIER TO GUIDE RAIL TRANSITION	BC-739M	05-18-12
BRIDGE DRAINAGE	BC-751M	11-21-14
CONCRETE DECK SLAB DETAILS	BC-752M	11-21-14
BEARINGS	BC-755M	11-26-13
MISCELLANEOUS PRESTRESS DETAILS	BC-775M	11-26-13
TYPICAL WATERPROOFING AND EXPANSION DETAILS	BC-788M	11-21-14
CLASSIFICATION OF EARTHWORK FOR STRUCTURES	RC-11M	6-1-10
BACKFILL AT STRUCTURES	RC-12M	6-1-10
GUIDE RAIL TO BRIDGE BARRIER TRANSITIONS	RC-50M	6-1-10
TYPE 2 STRONG POST GUIDE RAIL	RC-52M	6-1-10



County of Allegheny Pittsburgh, Pennsylvania Department of Public Works			
CONSTRUCTION DRAWING EAST PENNVIEW STREET OVER PINE CREEK 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE TYPICAL SECTION & QUANTITIES PINE CREEK BRIDGE NO II STA 29+87.41 P111-0211			
DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 3 OF 46	

1/24/2016

J:\PROJECTS\1-ROCKCREEK\1-ROCKCREEK\1-ROCKCREEK_S1114_STAKE-OUT.dwg



STAKE-OUT PLAN
NTS

WORK POINTS				
NUMBER	STATION	OFFSET	COORDINATES	
			NORTHING	EASTING
1	29+29.09	28.93 RT	437399.3132	1356139.3321
2	29+45.60	20.53 RT	437414.9630	1356138.6045
3	29+54.56	0 CL	437433.5725	1356126.6748
4	29+60.16	17.95 LT	437449.5059	1356116.4606
5	29+57.45	33.11 LT	437456.6241	1356102.6918
6	30+29.30	28.84 LT	437505.0491	1356165.6476
7	30+21.84	25.32 LT	437497.7205	1356161.8583
8	30+19.75	0 CL	437476.3319	1356175.5694
9	30+17.90	22.34 RT	437457.4598	1356187.6675
10	30+21.32	29.57 RT	437453.7851	1356194.7740

NOTES: 1. OFFSET IS MEASURED PERPENDICULAR TO CONSTR. C, LOOKING AHEAD STATIONS.
2. FOUR PLACE COORDINATES ARE FOR COMPUTATIONAL PURPOSES ONLY AND DONOT IMPLY A PRECISION BEYOND TWO DECIMAL POINTS.

CHORD DIMENSIONS	
WP2 TO WP9	64.91'
WP3 TO WP8	64.95'
WP4 TO WP7	66.22'
DIAGONAL DIMENSIONS	
WP2 TO WP7	85.96'
WP4 TO WP9	71.65'

NOTES:
1. FOR GENERAL PLAN & ELEVATION, SEE SHEET 1.
2. FOR GENERAL NOTES, SEE SHEET 2.
3. FOR TYPICAL SECTION, SEE SHEET 3.

LEGEND:
W.P. = WORK POINT
F.F. = FRONT FACE



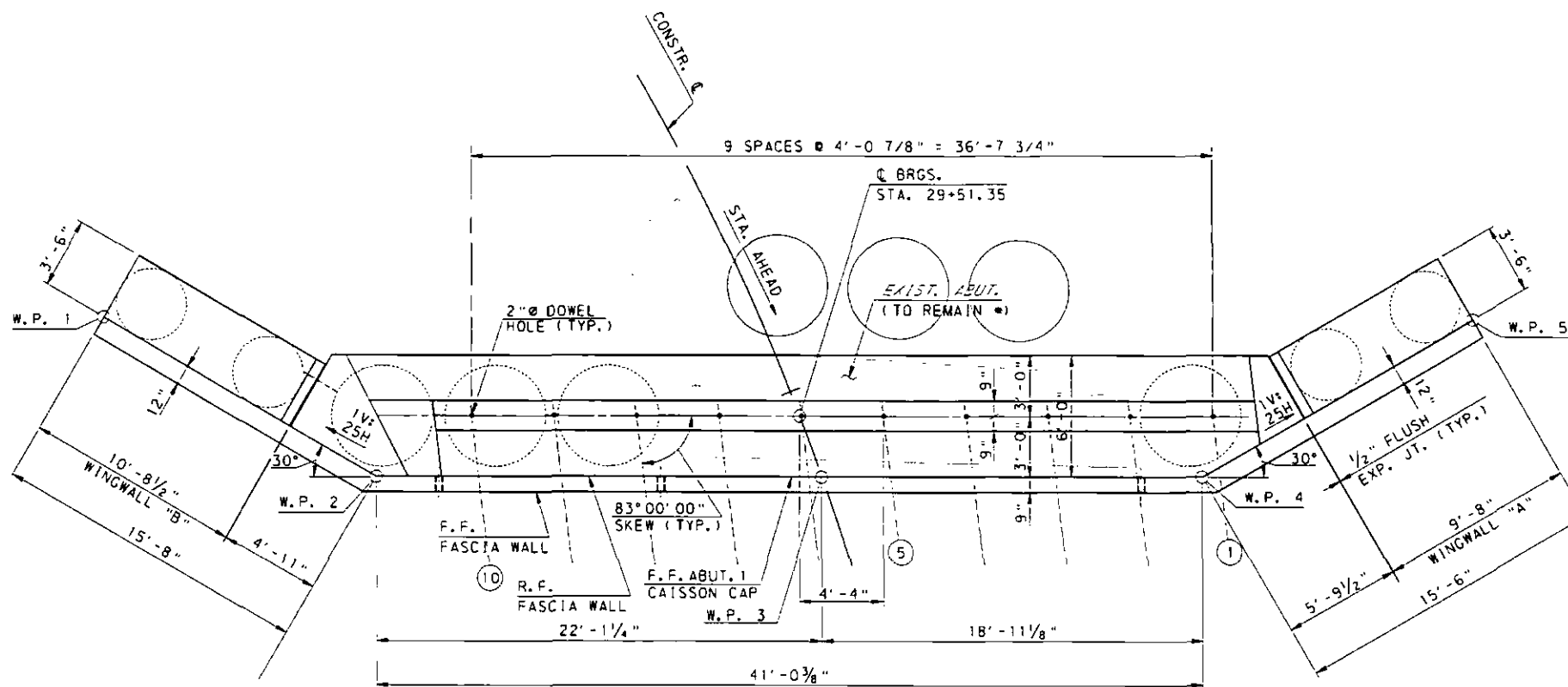
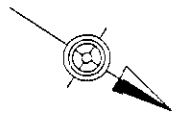
REVISIONS

County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

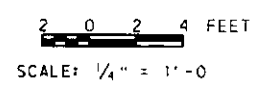
CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE

STAKE-OUT PLAN
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

DES. MRM	DRW. SRC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 4 OF 46	

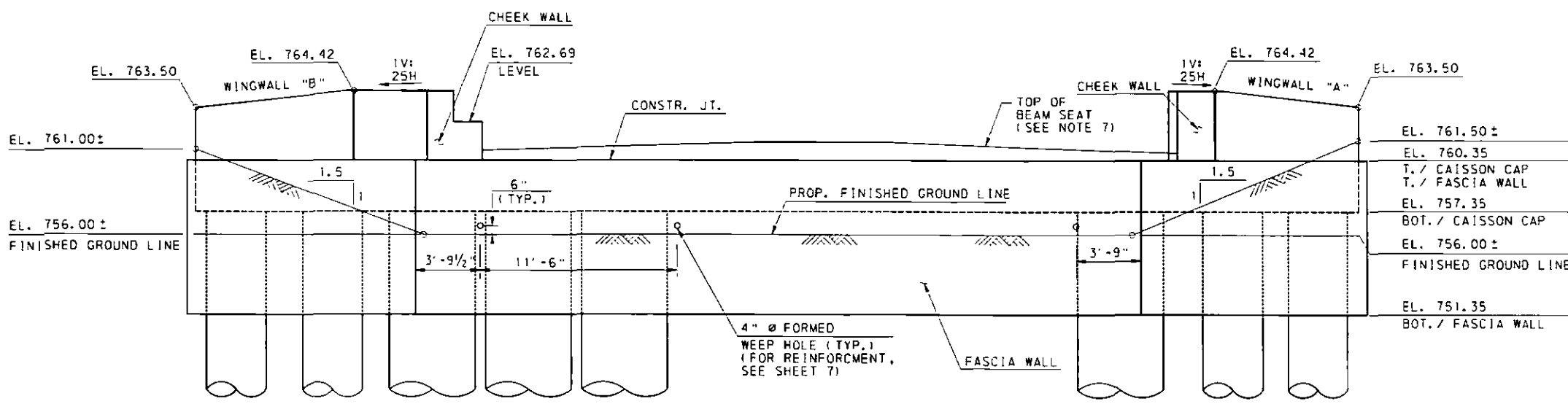


PLAN



NOTE:

REMOVE THE TOP FOUR (4) COURSES OF EXISTING ABUTMENT MASONRY STONES TO EL. 757.12 ± TO CLEAR THE PROPOSED CAISSON CAP BOTTOM ELEVATION. FILL THE GAP BETWEEN THE EXISTING ABUTMENT TOP AND PROPOSED CAISSON CAP BOTTOM WITH APPROVED 6" WIDE CONTINUOUS STRIP OF CLOSED CELL NEOPRENE SPONGE (THICKNESS = 1/4" THICKER THAN GAP)

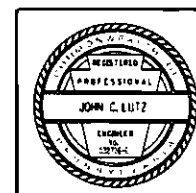


ELEVATION
(LOOKING BACK STATIONS)
SCALE: 1/4" = 1'-0"

NOTES:

1. FOR GENERAL NOTES, SEE SHEET 2.
2. FOR WALL CONSTRUCTION & EXPANSION JOINT DETAILS, SEE BC-735M.
3. FOR WATERPROOFING DETAILS, SEE BC-788M.
4. FOR CAISSON PLAN, SEE SHEET 8.
5. FOR CAISSON CAP REINFORCEMENT AND DETAILS, SEE SHEETS 6 & 7.
6. FOR FASCIA WALL REINFORCEMENT AND DETAILS, SEE SHEETS 11 & 12.
7. FOR BEAM SEAT REINFORCEMENT AND ELEVATIONS, SEE SHEETS 11 & 13.

REVISIONS	



County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

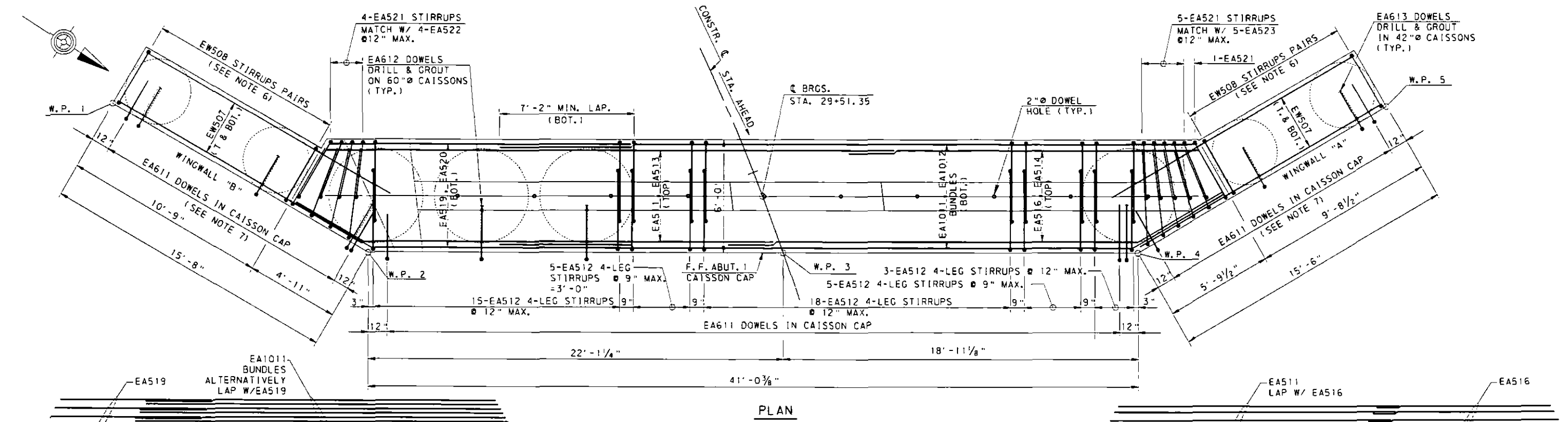
CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
ABUTMENT 1 PLAN & ELEVATION

PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 5 OF 46	

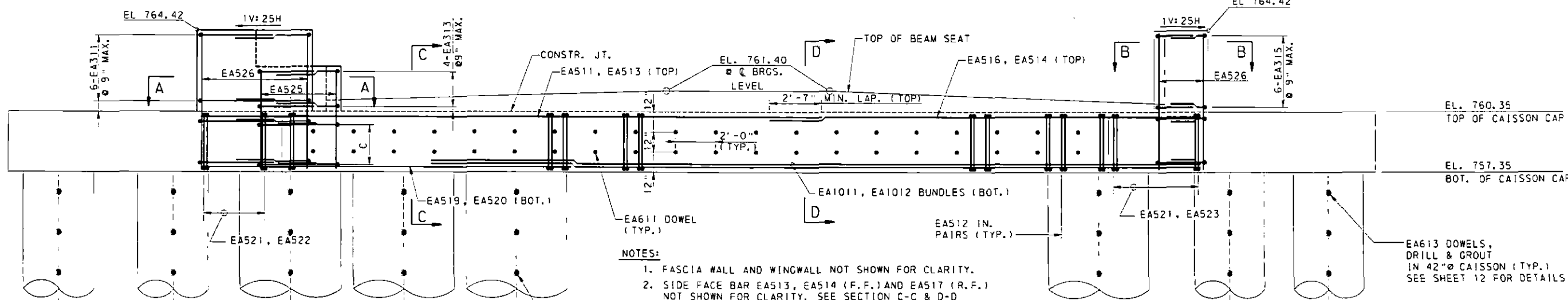
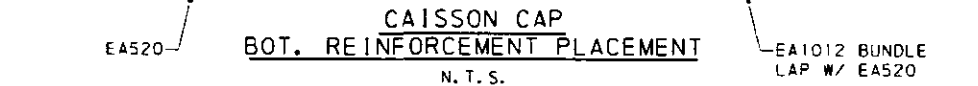
3/24/2016
J:\PROJECTS\1605-1-00\CAD\Asst\Struct\Final - DES\CONSTR\CHIEF\SHLS - ABUT 1 PLAN & ELEV.dgn

3/24/2016
 DESIGNED BY: J. BRONKHORST, STRUCTURAL ENGINEER
 CHECKED BY: J. BRONKHORST, STRUCTURAL ENGINEER
 DATE: 12/20/15
 SHEET: 6 OF 46



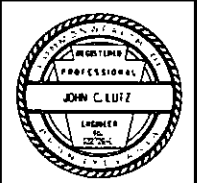
PLAN
 SCALE: 3/8" = 1'-0"

- NOTES:**
1. FASCIA WALL NOT SHOWN FOR CLARITY.
 2. CAISSON CAP TOP AND BOTTOM REBARS LAYOUT AS SHOWN.



ELEVATION
 (LOOKING BACK STATIONS)
 SCALE: 3/8" = 1'-0"

- NOTES:**
1. FOR GENERAL NOTES, SEE SHEET 2.
 2. FOR SECTIONS A-A THRU D-D, SEE SHEET 7.
 3. FOR CAISSON PLAN, SEE SHEET 8.
 4. FOR FASCIA WALL REINFORCEMENT AND DETAILS, SEE SHEETS 11 & 12.
 5. FOR BEAM SEAT REINFORCEMENT AND ELEVATIONS, SEE SHEETS 11 & 13.
 6. FOR WINGWALL REINFORCEMENT DETAILS, SEE SHEET 14.
 7. FOR DOWEL DETAILS, SEE SHEET 12.
 8. FOR REINFORCEMENT SCHEDULE, SEE SHEET 16.



REVISIONS	

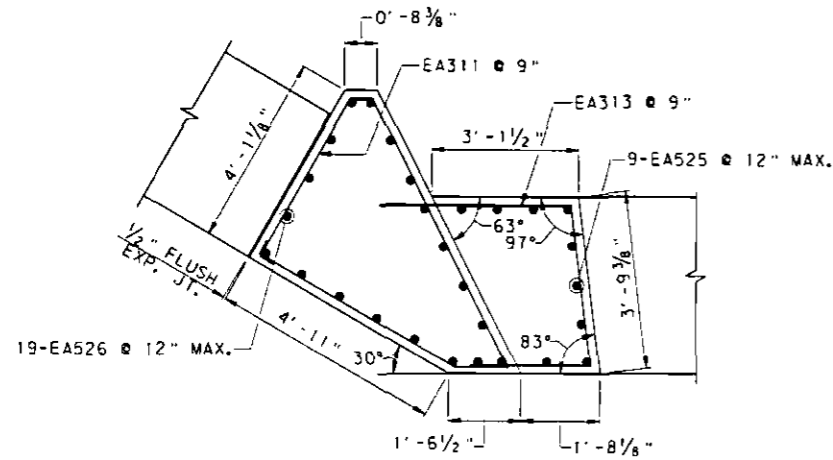
County of Allegheny
 Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
 EAST PENNVIEW STREET OVER PINE CREEK
 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
ABUTMENT 1 CAISSON CAP
PLAN AND ELEVATION
 PINE CREEK BRIDGE NO II
 STA 29+87.41 P111-0211

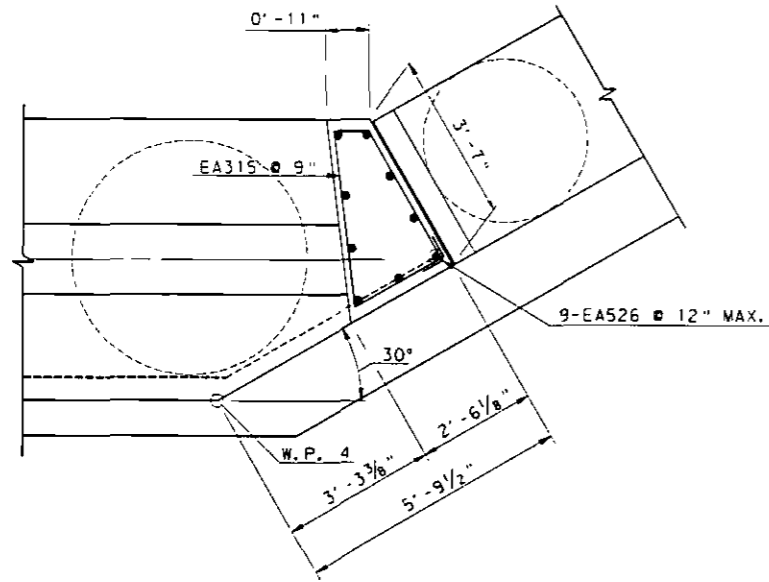
DES. WRM	DRW. ADC	CHK. JCL	26048
DATE 12/20/15	SCALE	SHEET 6 OF 46	

3/7/2016

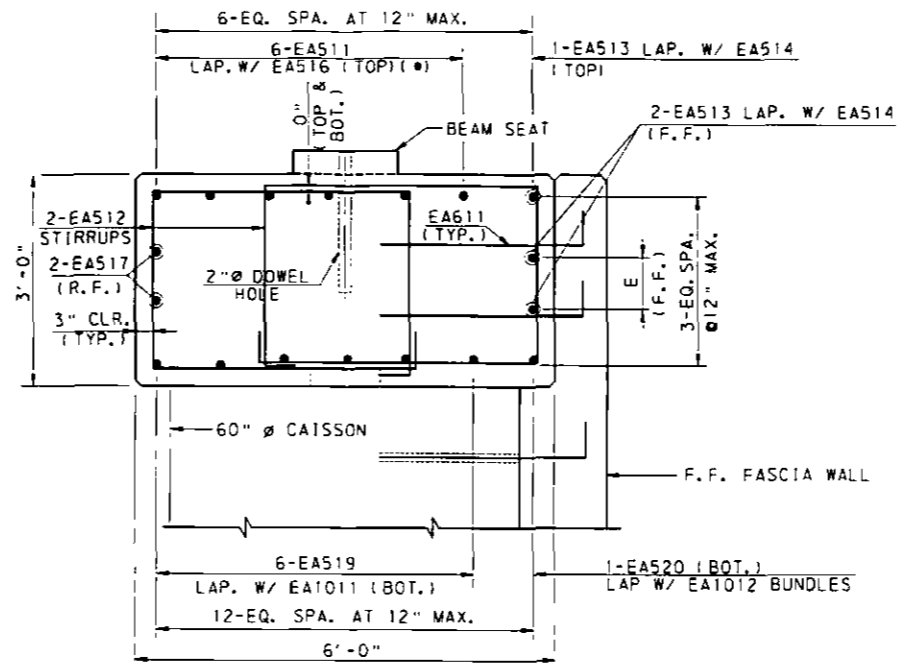
J:\PROJ\76061-CONCRETE\TRUCK\FINAL DESIGN\IN\FRONT_SHT 7 AND 1 SECTIONS AND DETAILS.dgn



SECTION A-A
 1 0 2 FEET
 SCALE: 1/2" = 1'-0



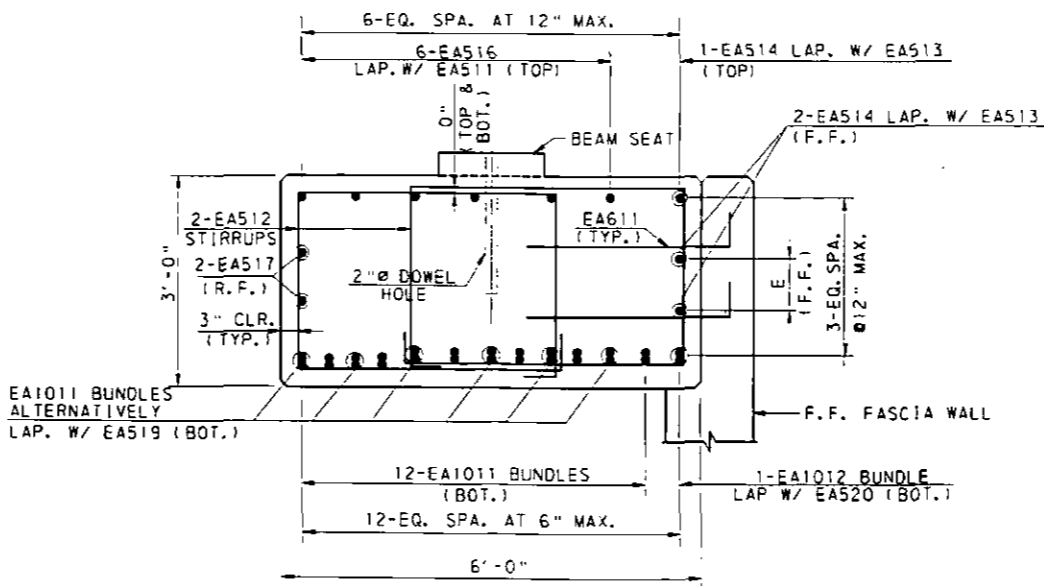
SECTION B-B
 1 0 2 FEET
 SCALE: 1/2" = 1'-0



SECTION C-C
 1 0 2 FEET
 SCALE: 3/4" = 1'-0

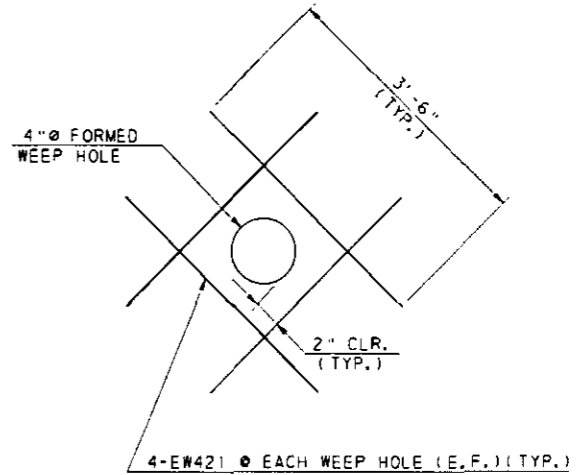
NOTE:
 ■ PLACE TOP BARS TO AVOID DOWEL HOLES.

E: 2-EA513 LAP. W/ 2-EA514 (F.F.)



SECTION D-D
 (CROSS EXIST. ABUT.)
 1 0 2 FEET
 SCALE: 3/4" = 1'-0

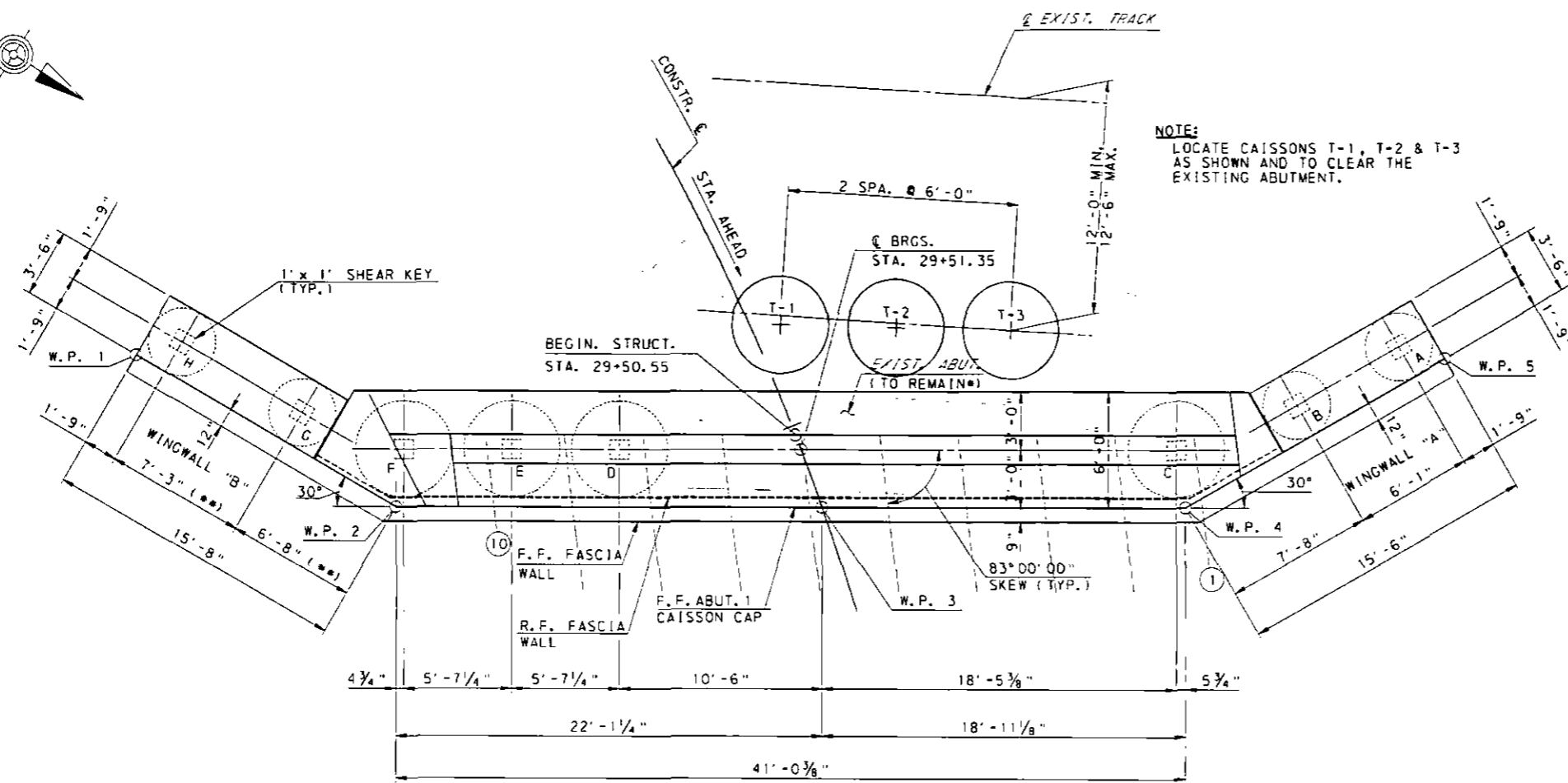
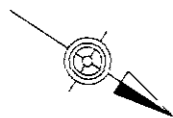
LEGEND
 F.F. - FRONT FACE
 R.F. - REAR FACE
 E.F. - EACH FACE
 K.C.J. - KEYED CONSTR. JOINT



WEEP HOLE REINFORCEMENT
 N.T.S.

- NOTES:**
1. FOR GENERAL NOTES, SEE SHEET 2.
 2. FOR LOCATIONS OF SECTIONS A-A THRU D-D, SEE SHEET 6.
 3. FOR WATERPROOFING DETAILS, SEE BC-788M.
 4. FOR FASCIA WALL REINFORCEMENT AND DETAILS, SEE SHEETS 11 & 12.
 5. FOR BEAM SEAT REINFORCEMENT, SEE SHEET 11.

County of Allegheny Pittsburgh, Pennsylvania Department of Public Works		CONSTRUCTION DRAWING EAST PENNVIEW STREET OVER PINE CREEK 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE ABUTMENT 1 SECTIONS & DETAILS PINE CREEK BRIDGE NO II STA 29+87.41 P111-0211		
		DES. MRM	DRW. ADC	CHK. JCL
REVISIONS		DATE 12/2015	SCALE	SHEET 7 OF 46



NOTE:
 LOCATE CAISSONS T-1, T-2 & T-3
 AS SHOWN AND TO CLEAR THE
 EXISTING ABUTMENT.

CAISSON PLAN

2 0 2 4 FEET
 SCALE: 1/4" = 1'-0"

NOTES:

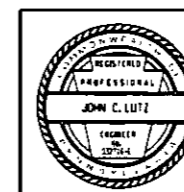
- SEE NOTE (•) ON SHEET 5.
- TO AVOID THE EXISTING 20" H.P. WATER LINE, CAISSON C MAY BE SHIFTED 1'-0" MAX. ALONG WINGWALL "B" TOWARDS CAISSON F.

NOTES:

1. FOR GENERAL NOTES, SEE SHEET 2.
2. FOR ABUTMENT 1 CAISSON DETAILS, SEE SHEET 9.
3. FOR TANGENT CAISSON DETAILS, SEE SHEET 10.
4. FOR WINGWALL "A" & "B" CAISSON DETAILS, SEE SHEET 15.

<p align="center">County of Allegheny Pittsburgh, Pennsylvania Department of Public Works</p>			
<p align="center">CONSTRUCTION DRAWING EAST PENNVIEW STREET OVER PINE CREEK 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE</p>			
<p align="center">ABUTMENT 1 CAISSON PLAN</p>			
<p align="center">PINE CREEK BRIDGE NO II STA 29+87.41 P111-0211</p>			
DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 8 OF 46	

REVISIONS

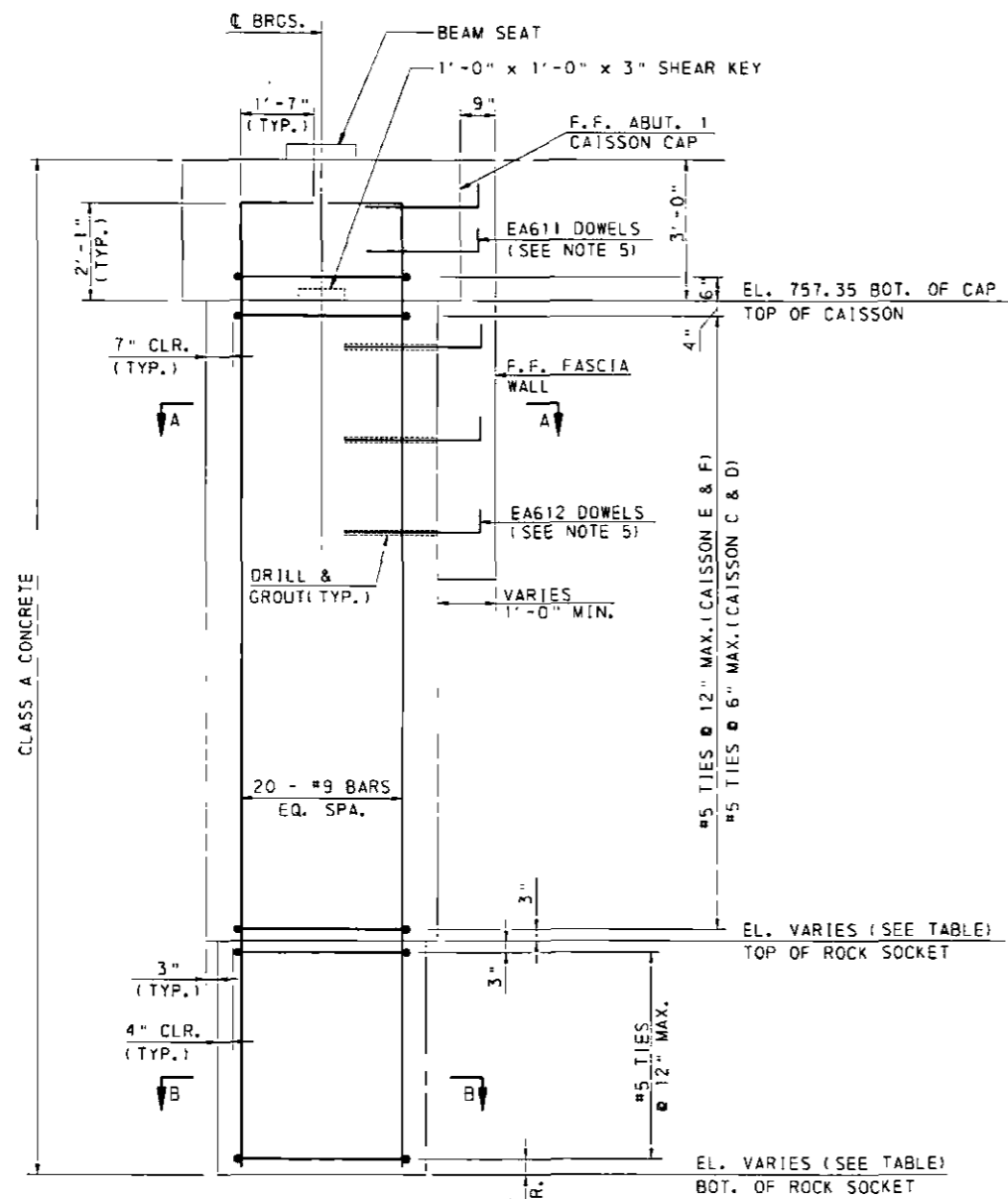


3/24/2016

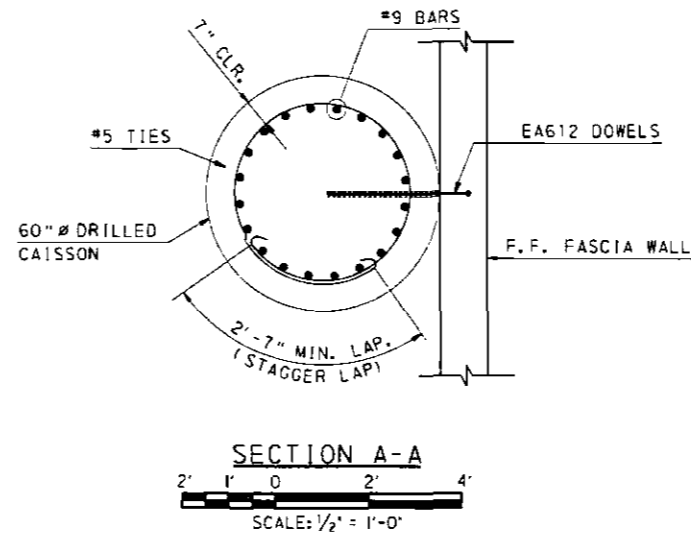
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1/24/2016

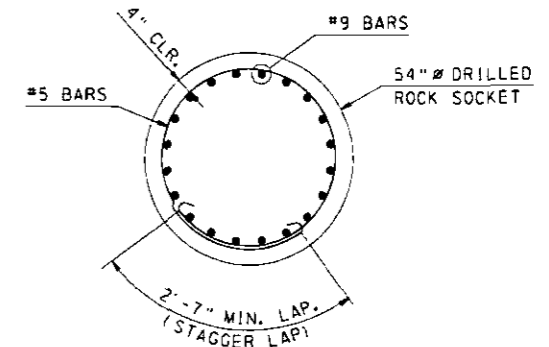
J:\PROJECTS\1605-1-00\CAD\Drawings\FINAL DESIGN\PI\DRWG\CAISSON DETAIL 5.dwg



60" DIA. CAISSON
SCALE: 1/2" = 1'-0"



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



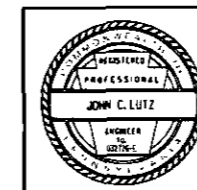
SECTION B-B
SCALE: 1/2" = 1'-0"

NOTES:

1. FOR GENERAL NOTES, SEE SHEET 2.
2. FOR CAISSON PLAN, SEE SHEET 8.
3. CAISSON REINFORCEMENT SHALL BE PAID FOR UNDER CAISSON ITEM.
4. DO NOT CONSTRUCT REINFORCED CAGES UNTIL CAISSON LENGTHS ARE APPROVED.
5. FOR DOWEL DETAILS, SEE SHEET 12.
6. PROVIDE TEMPORARY CASING FOR THE PORTION OF THE DRILLED CAISSON IN THE SOIL OVERBURDEN AND WEATHERED ROCK. THE CASING IS TO BE WITHDRAWN AS THE CONCRETE IS PLACED.

CAISSON	TOP OF CAISSON ELEV. (ft)	TOP OF ROCK SOCKET ELEV. (ft)	BOTTOM OF ROCK SOCKET ELEV. (ft)	ESTIMATED TEST HOLE DEPTH (ft)
C	757.35	740.00	735.00	32.35
D	757.35	740.00	735.00	32.35
E	757.35	740.00	735.00	32.35
F	757.35	740.00	735.00	32.35

NOTE: * TOP OF ROCK ELEVATIONS ESTIMATED FROM BORING DATA. CONFIRM ELEVATIONS WITH TEST HOLES. PROVIDE MIN. 5'-0" ROCK SOCKET.



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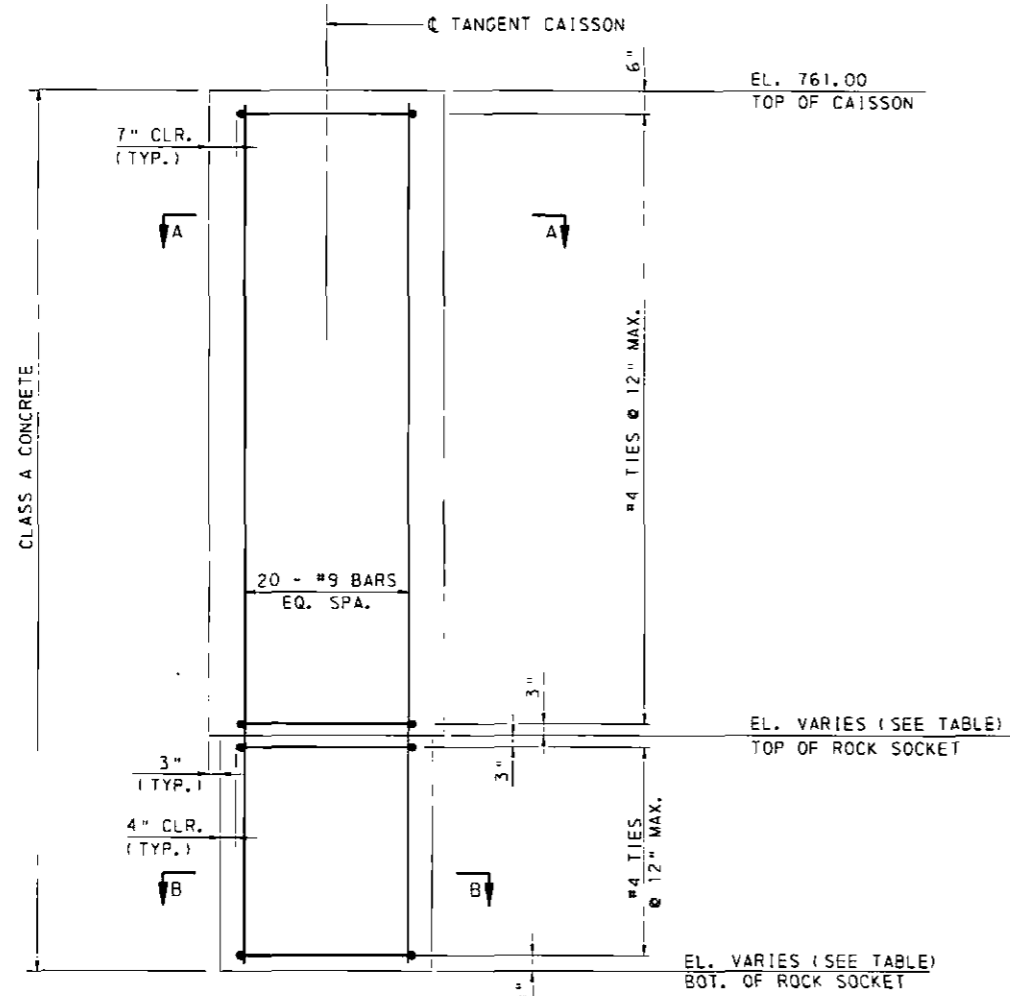
County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE

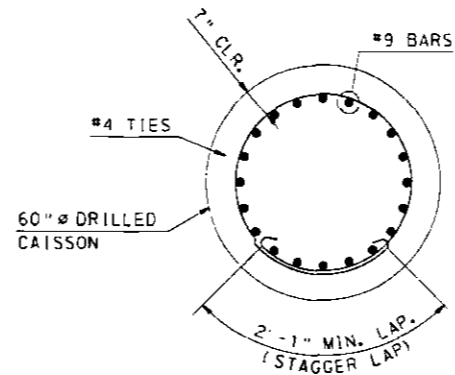
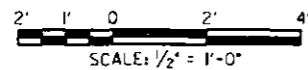
ABUTMENT 1 CAISSON DETAILS
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 9 OF 46	

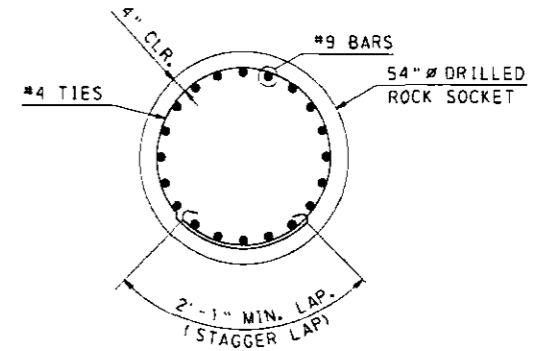
3/24/2016
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60" DIA. TANGENT CAISSON



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



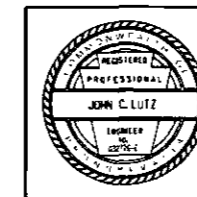
SECTION B-B
 SCALE: 1/2" = 1'-0"

CAISSON	TOP OF CAISSON ELEV. (ft)	TOP OF ROCK SOCKET ELEV. (ft)	BOTTOM OF ROCK SOCKET ELEV. (ft)	ESTIMATED TEST HOLE DEPTH (ft)
T-1	761.00	740.00	735.00	36.00
T-2	761.00	740.00	735.00	36.00
T-3	761.00	740.00	735.00	36.00

NOTE: TOP OF ROCK ELEVATIONS ESTIMATED FROM BORING DATA. CONFIRM ELEVATIONS WITH TEST HOLES. PROVIDE MIN. 5'-0" ROCK SOCKET.

NOTES:

- FOR GENERAL NOTES, SEE SHEET 2.
- FOR CAISSON PLAN, SEE SHEET 8.
- CAISSON REINFORCEMENT SHALL BE PAID FOR UNDER CAISSON ITEM.
- DO NOT CONSTRUCT REINFORCED CAGES UNTIL CAISSON LENGTHS ARE APPROVED.
- INSTALL TANGENT CAISSON PRIOR TO DEMOLISH THE EXISTING BRIDGE SUPERSTRUCTURE.
- PROVIDE TEMPORARY CASING FOR THE PORTION OF THE DRILLED CAISSON IN THE SOIL OVERBURDEN AND WEATHERED ROCK. THE CASING IS TO BE WITHDRAWN AS THE CONCRETE IS PLACED.

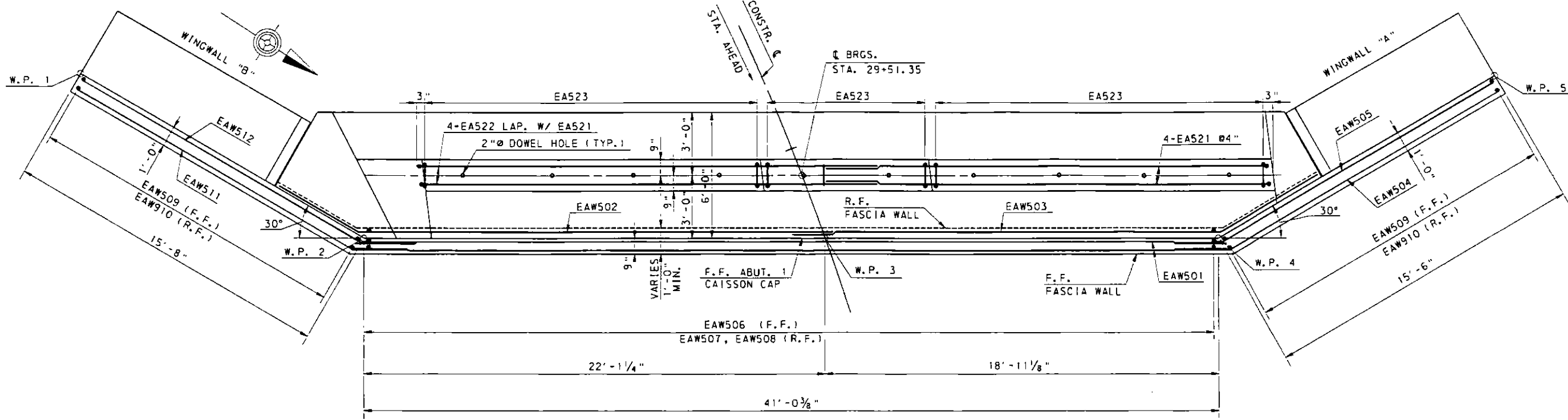


REVISIONS

County of Allegheny
 Pittsburgh, Pennsylvania
 Department of Public Works

CONSTRUCTION DRAWING
 EAST PENNVIEW STREET OVER PINE CREEK
 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
 ABUTMENT 1 TANGENT
 CAISSON DETAILS
 PINE CREEK BRIDGE NO II
 STA 29+87.41 P111-0211

DES. MRW	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 10 OF 46	

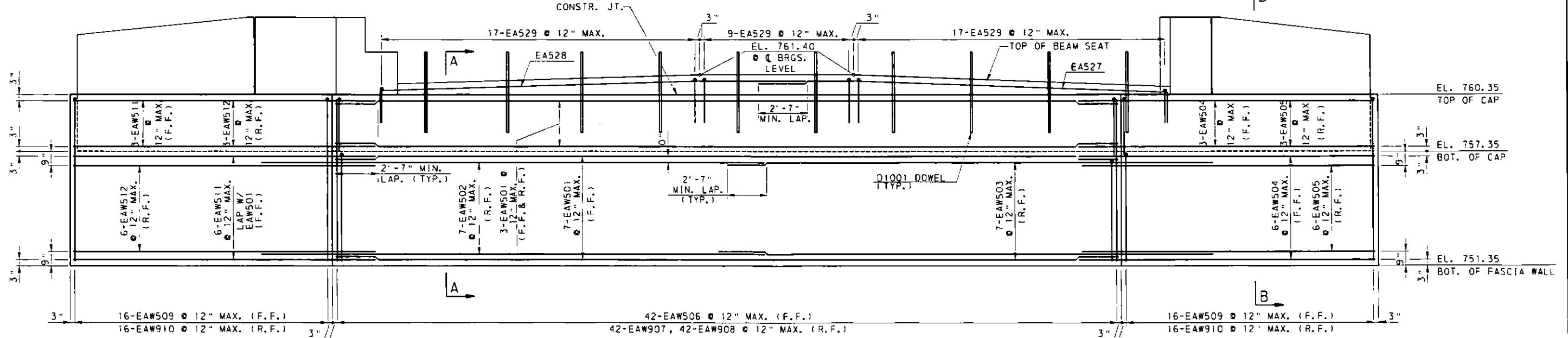


PLAN

1 0 1 2 3 FEET
SCALE: 3/8" = 1'-0"

NOTES:

1. CAISSON NOT SHOWN FOR CLARITY.
2. PLACE R.F. OF FASCIA WALL AGAINST EXIST. ABUTMENT F.F.. S.I.P. FORM MAY BE USED AND LEFT-IN-PLACE AT R.F. OF FASCIA WALL.



ELEVATION

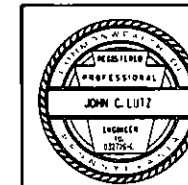
(LOOKING BACK STATIONS)
1 0 1 2 3 FEET
SCALE: 3/8" = 1'-0"

NOTES:

1. FOR GENERAL NOTES, SEE SHEET 2.
2. FOR SECTIONS A-A AND B-B, SEE SHEET 12.
3. FOR BEAM SEAT ELEVATIONS SEE SHEET 13.

NOTE:

1. EA611 DOWELS ON CAISSON CAP NOT SHOWN FOR CLARITY.



REVISIONS

County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
ABUTMENT 1 BEAM SEAT & FASCIA WALL PLAN & ELEVATION
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

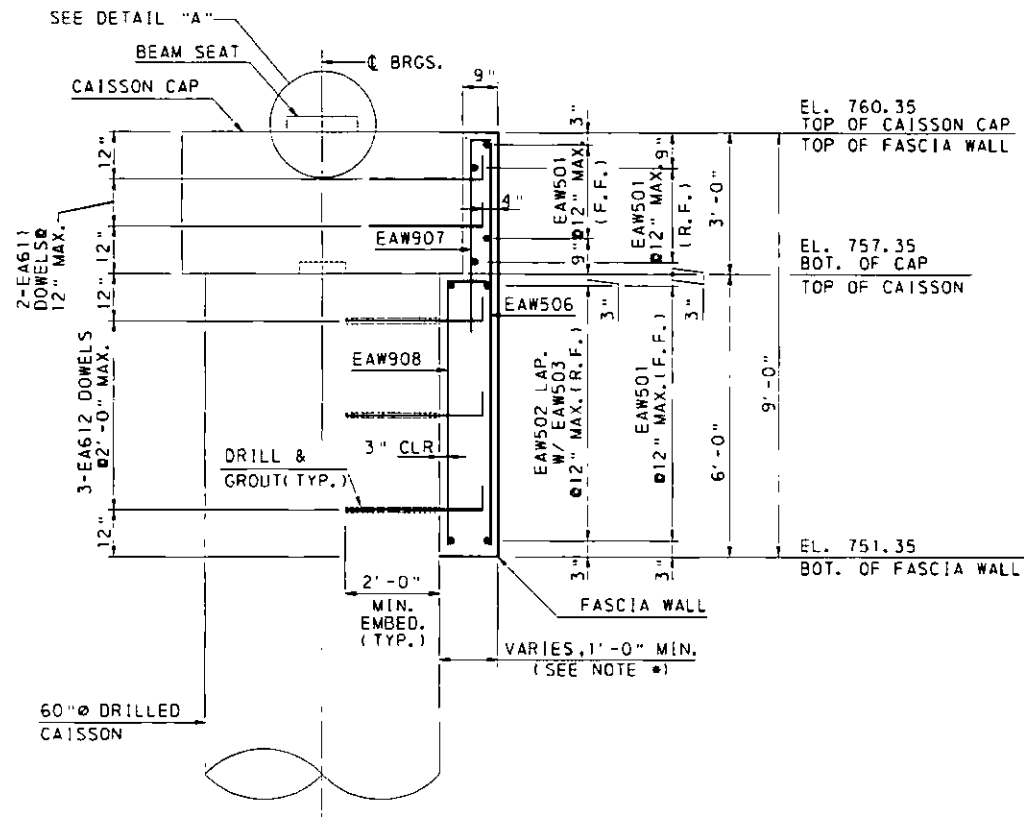
DES.	MRM	DRW.	ADC	CHK.	JCL	26048
DATE	12/2015	SCALE		SHEET 11 OF 46		

3/7/2016

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3/24/2016

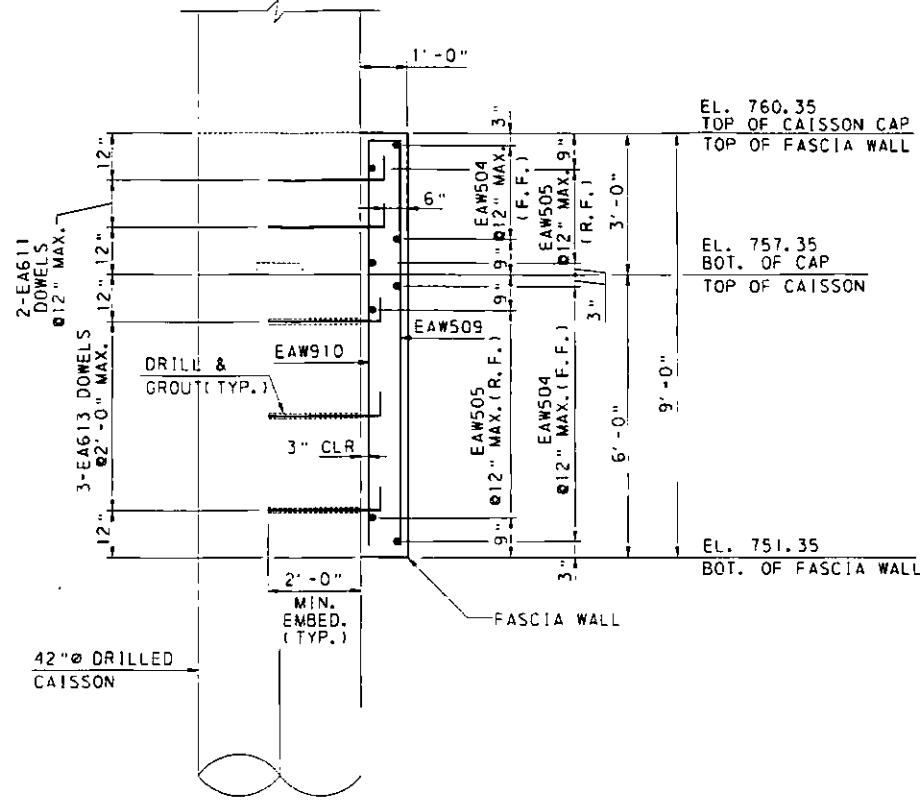
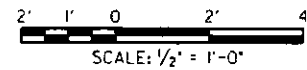
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NOTE:

- PLACE R.F. OF FASCIA WALL AGAINST EXIST. ABUTMENT F.F., S.I.P. FORM MAY BE USED AND LEFT-IN-PLACE AT R.F. OF FASCIA WALL.

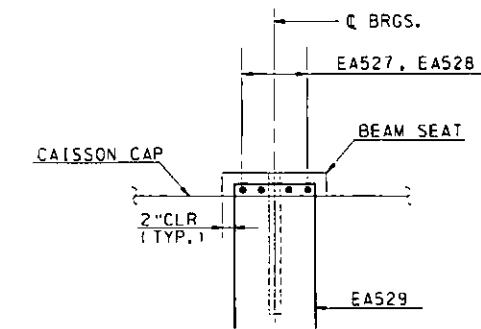
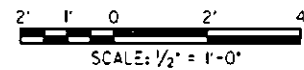
SECTION A-A
FASCIA WALL DETAIL
AT ABUTMENT 1



NOTE:

- 1. FASCIA WALL DETAIL AT WINGWALL "A" SHOWN. FASCIA WALL DETAIL AT WINGWALL "B" SIMILAR, EXCEPT FOR NOTED AS SHOWN ON SHEET 11.

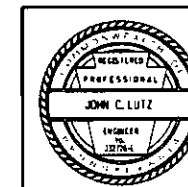
SECTION B-B
FASCIA WALL DETAIL
AT WINGWALL "A"



DETAIL "A"
N. T. S.

NOTES:

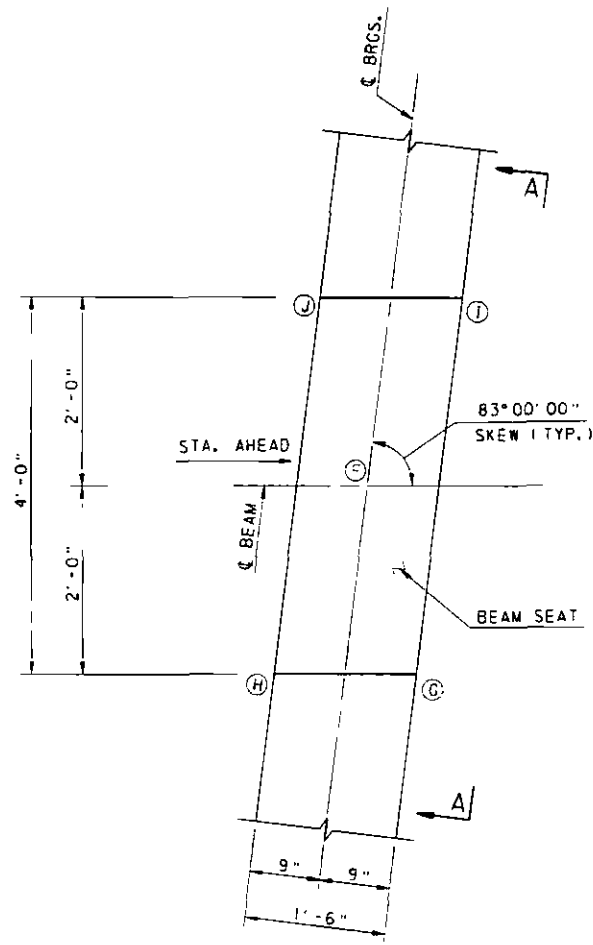
- 1. FOR GENERAL NOTES, SEE SHEET 2.
- 2. FOR REINFORCEMENT BAR SCHEDULE, SEE SHEET 16.
- 3. FOR LOCATIONS OF SECTIONS A-A AND B-B, SEE SHEET 11.



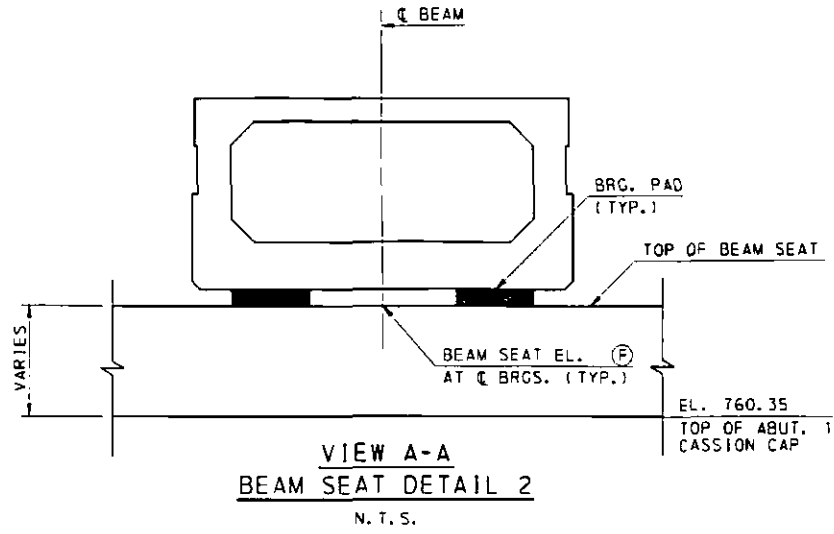
REVISIONS	

County of Allegheny Pittsburgh, Pennsylvania Department of Public Works			
CONSTRUCTION DRAWING EAST PENNVIEW STREET OVER PINE CREEK 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE ABUTMENT 1 FASCIA WALL SECTIONS & DETAILS PINE CREEK BRIDGE NO II STA 29+87.41 P111-0211			
DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 12 OF 46	

JE:PROJECT/6051-000/CA/056/17/06/10/05/04/1/ BE:SIGN/PIN/CLAREN, SHILLS, ABUT 1 BEAM SEAT DETAILS AND ELEV TABLE.dgn 3/24/2016



BEAM SEAT DETAIL 1
N. T. S.



VIEW A-A
BEAM SEAT DETAIL 2
N. T. S.

ABUTMENT 1 BEAM SEAT LOCATION AND ELEVATION TABLE

BEAM NO.	C BEAM OFFSET *	F	I	J	G	H
①	20' - 6 3/4" LT.	760.90	760.83	760.83	760.98	760.97
②	16' - 5 3/8" LT.	761.05	760.98	760.98	761.12	761.12
③	12' - 4 1/2" LT.	761.19	761.12	761.12	761.26	761.26
④	8' - 3 3/8" LT.	761.33	761.26	761.26	761.41	761.40
⑤	4' - 2 1/4" LT.	761.40	761.41	761.40	761.41	761.40
⑥	0' - 1 1/8" LT.	761.40	761.41	761.40	761.41	761.40
⑦	4' - 0" RT.	761.31	761.41	761.40	761.23	761.22
⑧	8' - 1 1/8" RT.	761.13	761.22	761.22	761.04	761.04
⑨	12' - 2 1/4" RT.	760.95	761.04	761.04	760.86	760.86
⑩	16' - 3 3/8" RT.	760.77	760.87	760.86	760.68	760.68

NOTE:
* C BEAM OFFSET IS MEASURED FROM THE CONSTRUCTION C, ALONG THE C OF BEARING, LOOKING AHEAD STATIONS.

- NOTES:**
- FOR BEAM SEAT REINFORCING, SEE SHEET 11.
 - FOR ELASTOMERIC BEARING DETAILS, SEE SHEET 33.



County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

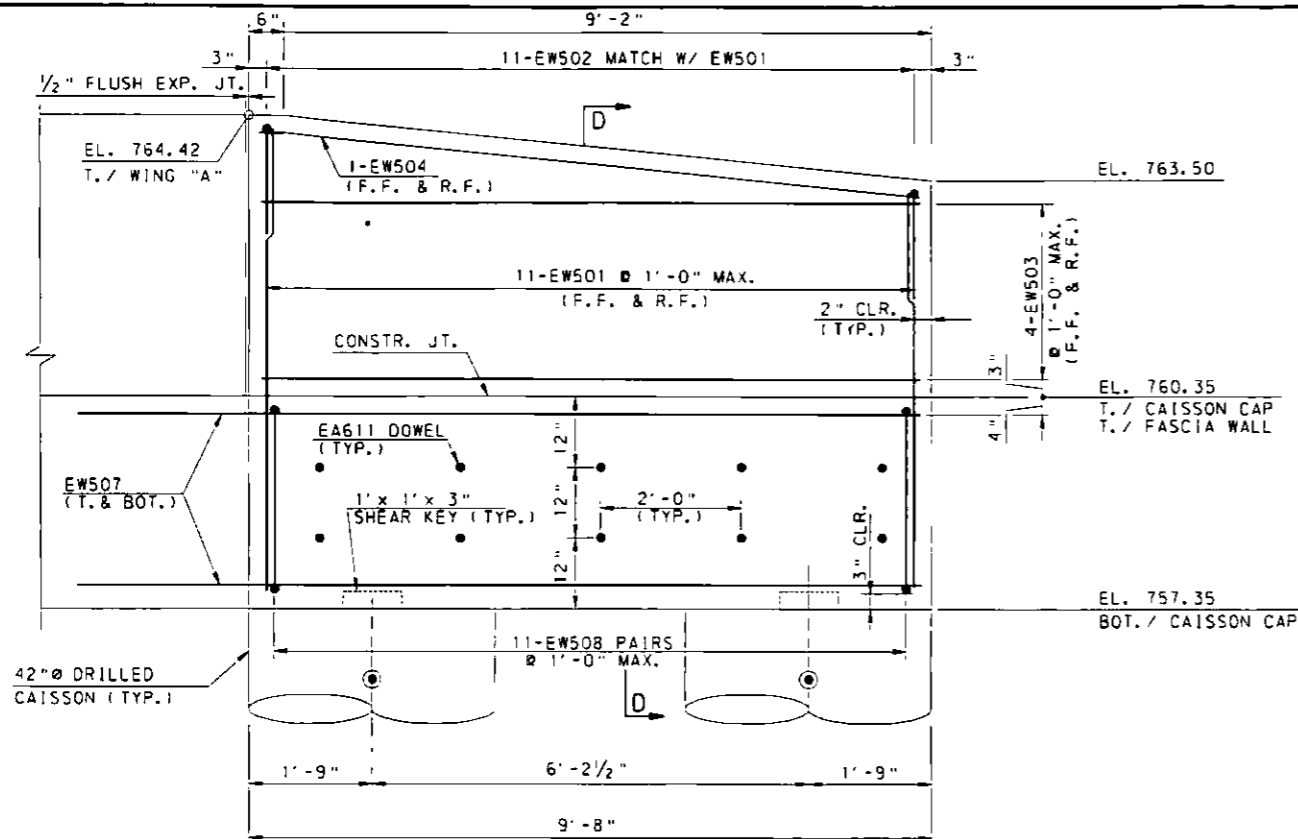
CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
ABUT. 1 BEAM SEAT DETAILS AND ELEVATION TABLE
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

DES.	MRM	DRW.	ADC	CHK.	JCL
DATE	12/2015	SCALE		SHEET	13 OF 46

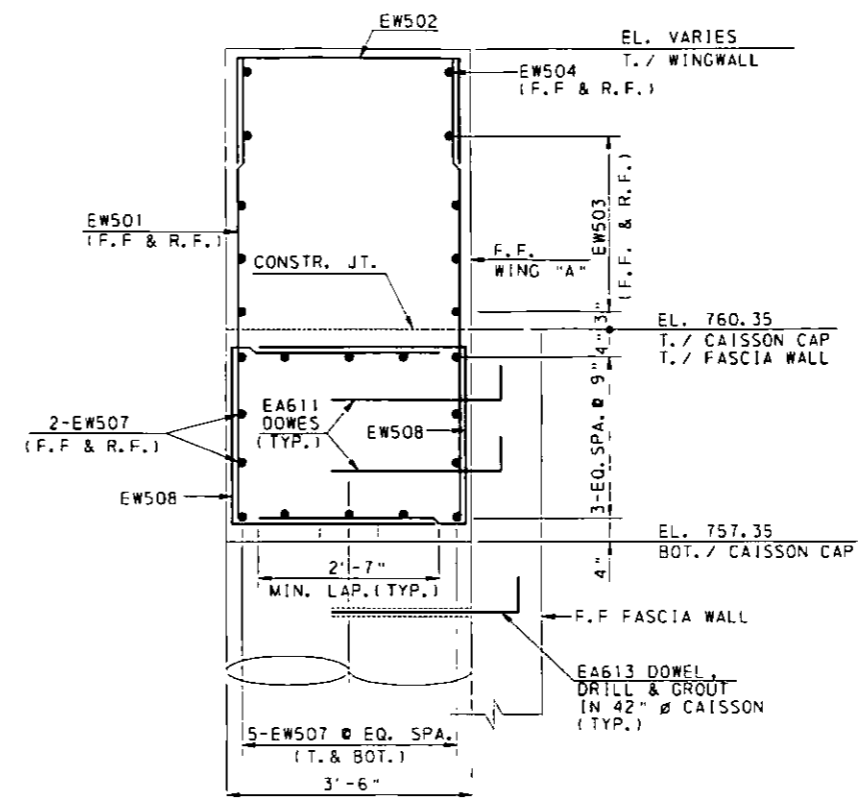
26048

3/24/2015

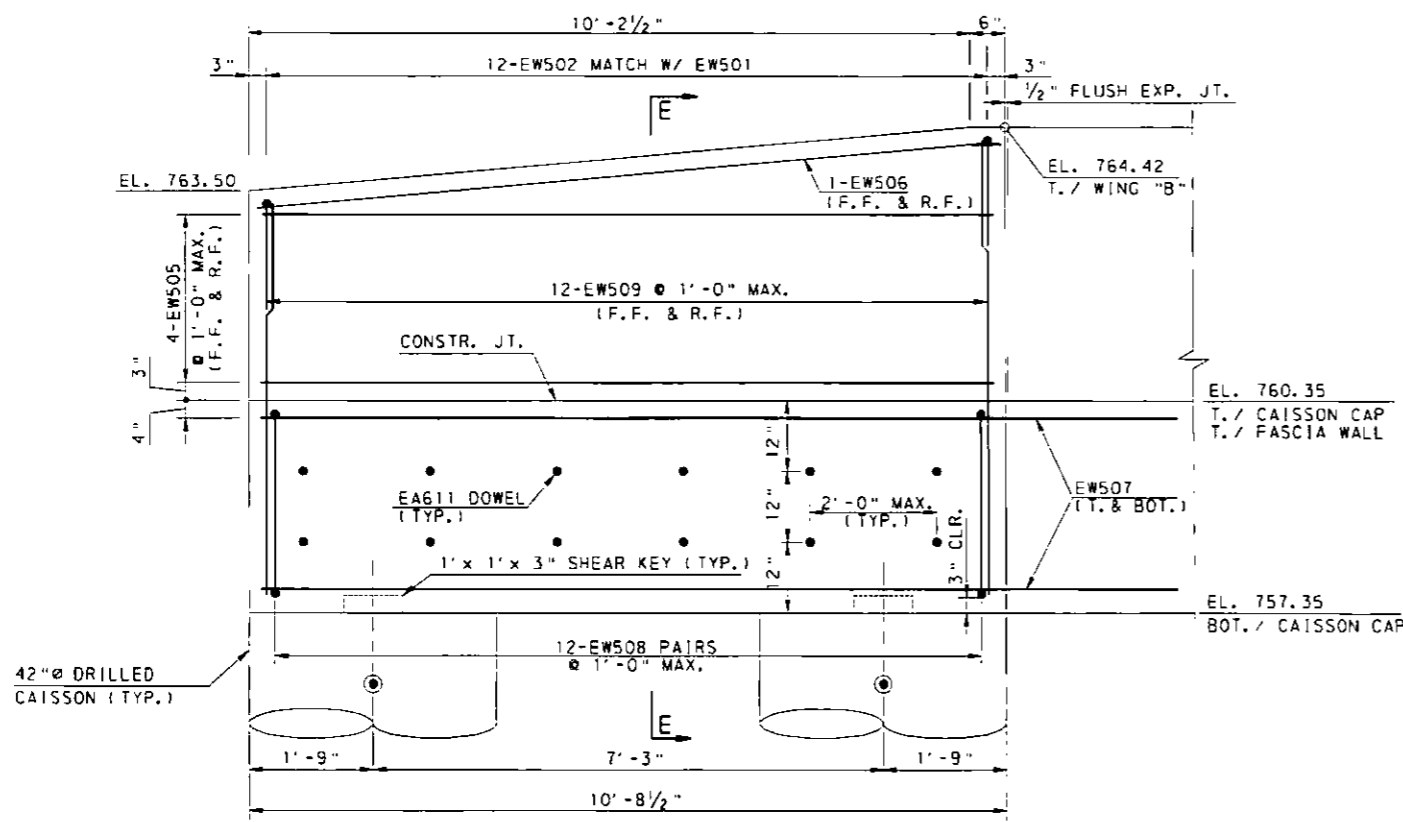
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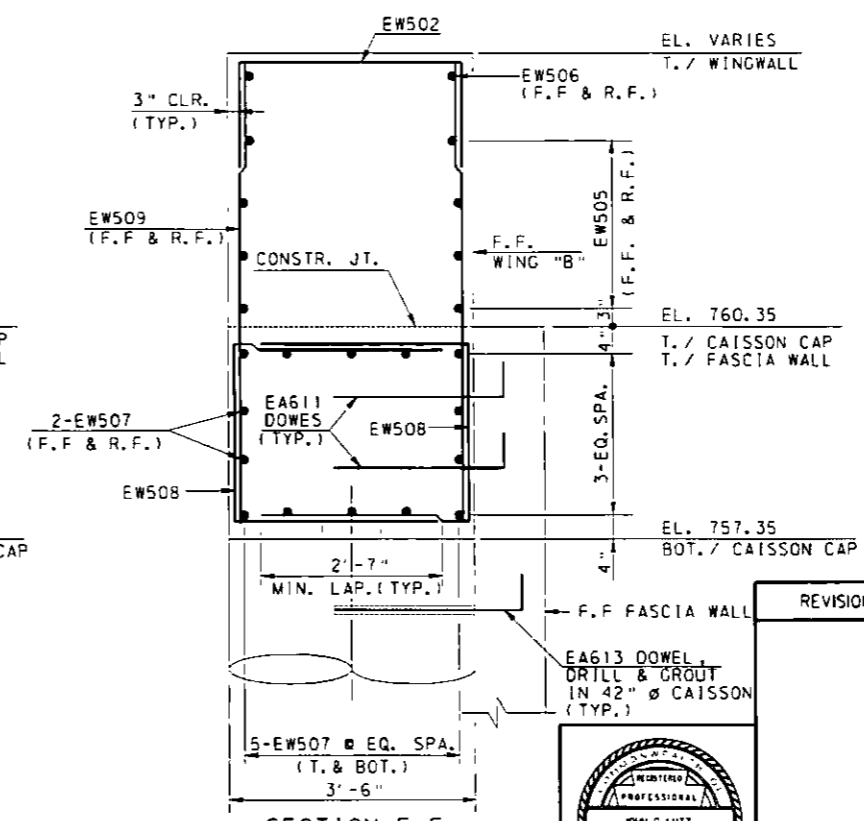
WINGWALL "A" ELEVATION
 (FASCIA WALL NOT SHOWN FOR CLARITY)
 SCALE: 3/4" = 1'-0"



SECTION D-D
 SCALE: 3/4" = 1'-0"



WINGWALL "B" ELEVATION
 (FASCIA WALL NOT SHOWN FOR CLARITY)
 SCALE: 3/4" = 1'-0"



SECTION E-E
 SCALE: 3/4" = 1'-0"

- NOTES:**
1. FOR GENERAL NOTES, SEE SHEET 2.
 2. FOR REINFORCEMENT BAR SCHEDULE, SEE SHEET 16.
 3. WORK THIS SHEET WITH SHEETS 6, 11 & 12.

LEGEND:
 F.F. = FRONT FACE
 R.F. = REAR FACE
 E.F. = EACH FACE



REVISIONS			

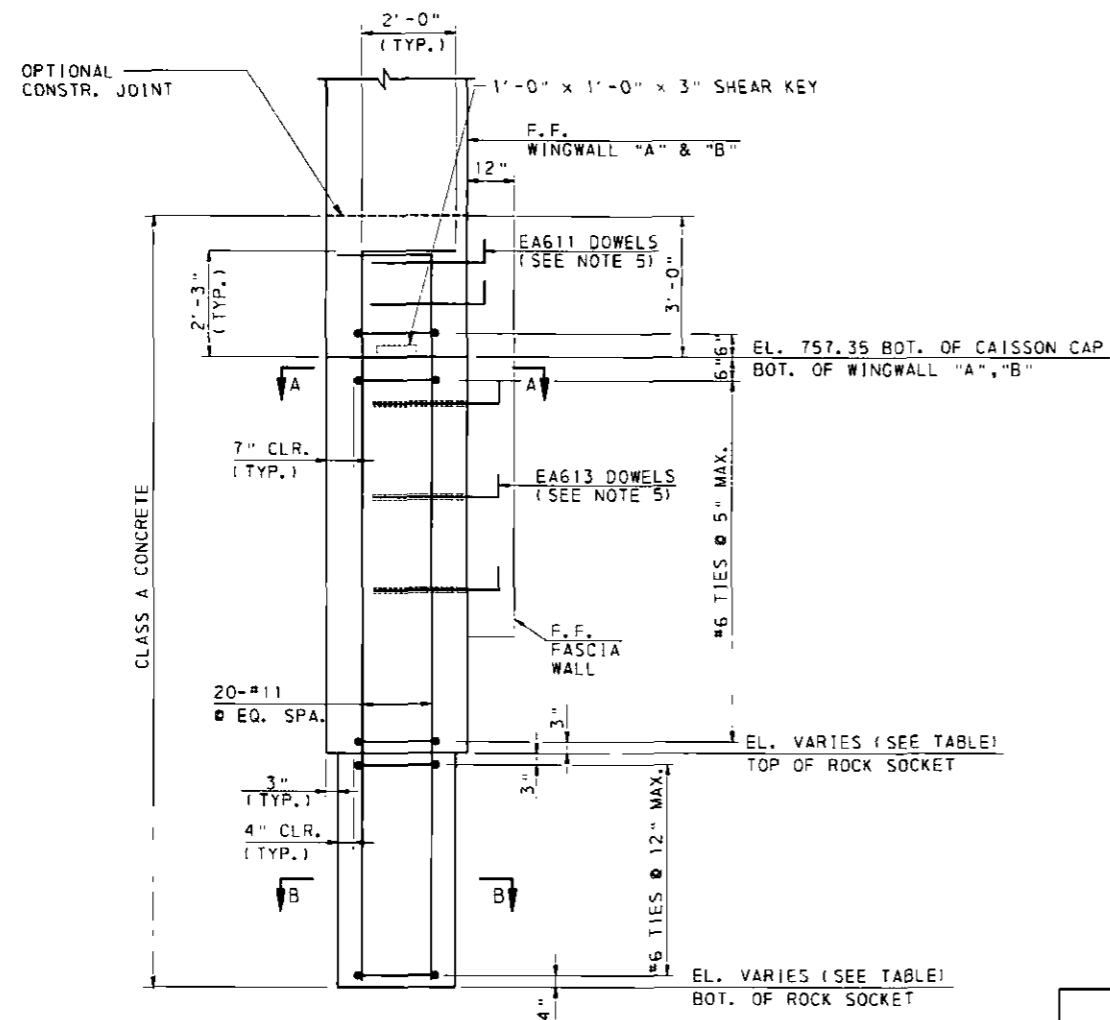
County of Allegheny
 Pittsburgh, Pennsylvania
 Department of Public Works

CONSTRUCTION DRAWING
 EAST PENNVIEW STREET OVER PINE CREEK
 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
 ABUTMENT 1
 WINGWALLS "A" & "B"
 PINE CREEK BRIDGE NO II
 STA 29+87.41 P111-0211

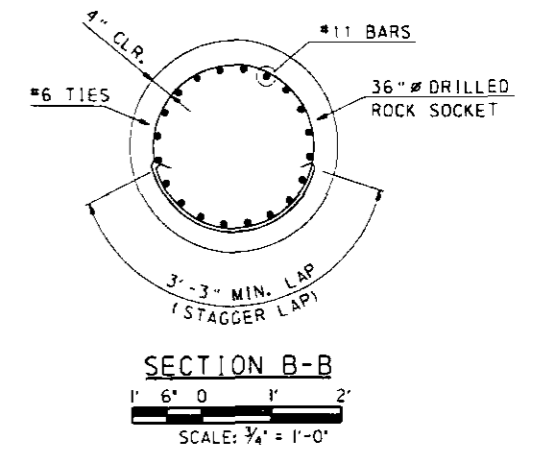
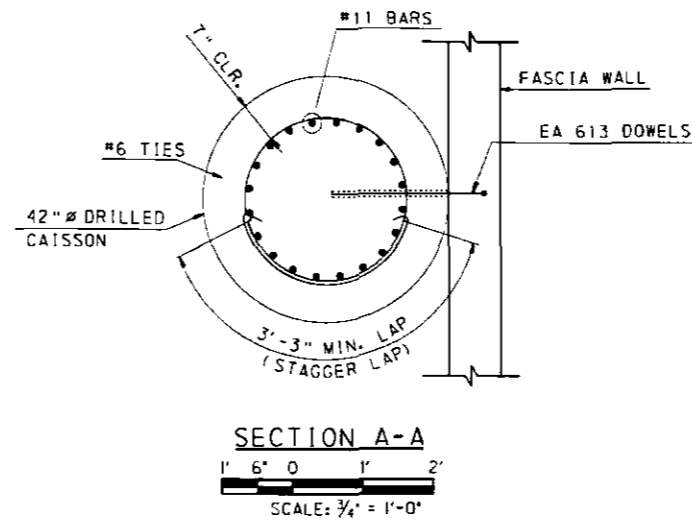
DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 14 OF 46	

3/24/2016

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42" DIA. CAISSON
SCALE: 1/2" = 1'-0"

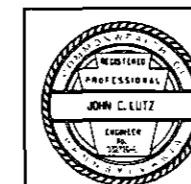


NOTES:

1. FOR GENERAL NOTES, SEE SHEET 2.
2. FOR CAISSON PLAN, SEE SHEET 8.
3. CAISSON REINFORCEMENT SHALL BE PAID FOR UNDER CAISSON ITEM.
4. DO NOT CONSTRUCT REINFORCED CAGES UNTIL CAISSON LENGTHS ARE APPROVED.
5. FOR DOWEL DETAILS, SEE SHEET 12.
6. PROVIDE TEMPORARY CASING FOR THE PORTION OF THE DRILLED CAISSON IN THE SOIL OVERBURDEN AND WEATHERED ROCK. THE CASING IS TO BE WITHDRAWN AS THE CONCRETE IS PLACED.

CAISSON	TOP OF CAISSON ELEV. (ft)	TOP OF ROCK SOCKET ELEV. (ft)	BOTTOM OF ROCK SOCKET ELEV. (ft)	ESTIMATED TEST HOLE DEPTH (ft)
A	757.35	740.00	735.00	32.43
B	757.35	740.00	735.00	32.43
G	757.35	740.00	735.00	32.43
H	757.35	740.00	735.00	32.43

NOTE: TOP OF ROCK ELEVATIONS ESTIMATED FROM BORING DATA. CONFIRM ELEVATIONS WITH TEST HOLES. PROVIDE MIN. 5'-0" ROCK SOCKET.



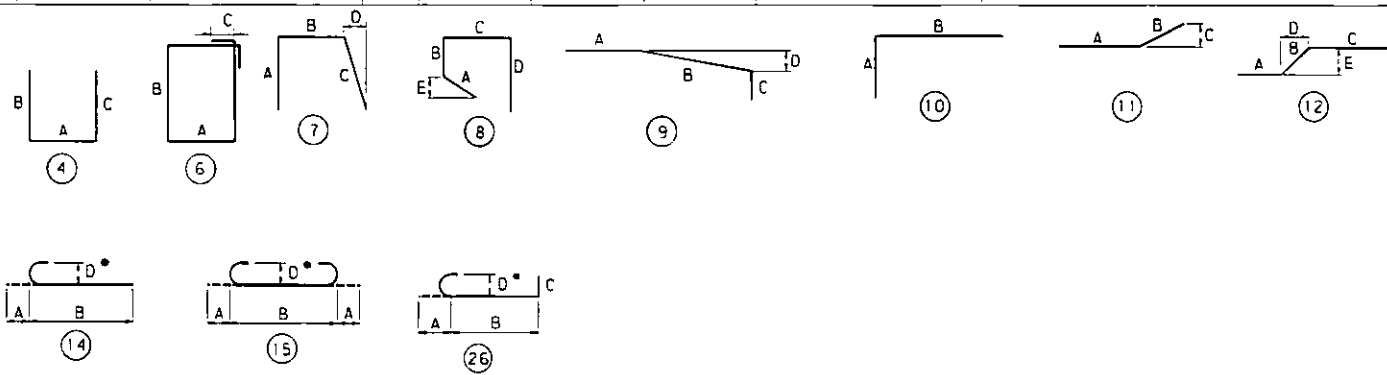
REVISIONS		County of Allegheny Pittsburgh, Pennsylvania Department of Public Works	
		CONSTRUCTION DRAWING EAST PENNVIEW STREET OVER PINE CREEK 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE ABUTMENT 1 WINGWALLS "A", "B" CAISSON DETAILS PINE CREEK BRIDGE NO II STA 29+87.41 P111-0211	
DES. MRM	DRW. SRC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 15 OF 46	

5/24/2016

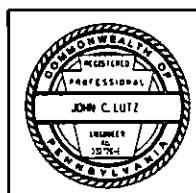
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MARK	SIZE	NUMBER	LENGTH	TYPE	A	B	C	D	E	R	REMARKS
CAISSON CAP											
EA511	5	6	30'-0"	STR							
EA512	5	92	14'-1"	6	4'-0 1/2"	2'-6"	0'-6"				
EA513	5	3	26'-2"	11	21'-6"	4'-8"	2'-4"				
EA514	5	3	27'-2 1/2"	11	21'-6"	5'-8 1/2"	2'-10"				
EA516	5	6	22'-0"	STR							
EA517	5	4	24'-6"	STR							
EA519	5	6	16'-3"	STR							
EA520	5	1	18'-7"	11	13'-11"	4'-8"	2'-4"				
EA521	5	10	12'-10"	6	3'-5"	2'-6"	0'-6"				
EA522	5	4	9'-6" TO 12'-0"	4	2'-6"	3'-6" TO 4'-9"					VARIABLES EACH B BY 5"
EA523	5	5	9'-6" TO 12'-6" TO 12'-6"	4	2'-6"	3'-6" TO 5'-0"					VARIABLES EACH B BY 4 1/2"
EA611	6	62	2'-11"	10	6"	2'-5"					
EA612	6	12	3'-4"	10	6"	2'-10"					
EA613	6	12	3'-2"	10	6"	2'-8"					
EA1011	10	24	40'-0"	STR							
EA1012	10	2	40'-0"	11	34'-3"	5'-9"	2'-10"				
D1001	---	10	4'-3"	STR							1/4" DIA. PLAIN DOWEL BAR
CHEEK WALL (INCL. CAISSON CAP BOTH ENDS)											
EA311	3	6	11'-0"	STR							BENT IN FIELD
EA312	3	6	8'-0"	STR							BENT IN FIELD
EA313	3	4	10'-0"	STR							BENT IN FIELD
EA314	3	4	8'-0"	STR							BENT IN FIELD
EA315	3	6	5'-0"	STR							BENT IN FIELD
EA316	3	6	7'-0"	STR							BENT IN FIELD
EA525	5	14	4'-10"	STR							
EA526	5	24	6'-7"	STR							
BEAM SEAT											
EA527	5	4	24'-0"	9	5'-6"	16'-6"	2'-0"	7"			
EA528	5	4	24'-3"	9	5'-6"	16'-9"	2'-0"	9"			
EA529	5	42	5'-10"	4	2'-4"	1'-2"	2'-4"				

MARK	SIZE	NUMBER	LENGTH	TYPE	A	B	C	D	E	R	REMARKS
CAISSON FASCIA WALL											
EW421	4	24	3'-6"	STR							
EAWS01	5	13	41'-10"	STR							
EAWS02	5	7	23'-8"								
EAWS03	5	7	20'-0"								
EAWS04	5	9	18'-7"	11	15'-4"	3'-3"	1'-7 1/2"				
EAWS05	5	9	18'-8"	11	15'-5"	3'-3"	1'-7 1/2"				
EAWS06	5	42	8'-8"	STR							
EAWS09	5	32	8'-8"	STR							
EAWS11	5	9	18'-9"	11	15'-6"	3'-3"	1'-7 1/2"				
EAWS12	5	9	18'-10"	11	15'-7"	3'-3"	1'-7 1/2"				
EAWS07	9	42	4'-6"	10	0'-5"	4'-1"					
EAWS08	9	42	6'-3"	10	0'-7"	5'-8"					
EAWS10	9	32	9'-3"	10	0'-7"	8'-8"					
WINGWALL "A"											
EW501	5	22	5'-9" TO 6'-7"	STR							2" EACH VARY BY 1"
EW502	5	11	6'-1"	4	1'-6"	3'-1"	1'-6"				
EW503	5	8	9'-2"	STR							
EW504	5	2	9'-4"	STR							
EW507	5	14	15'-0"	STR							
EW508	5	22	8'-4"	4	2'-11"	2'-6"	2'-11"				
WINGWALL "B"											
EW509	5	24	5'-8" TO 6'-7"	STR							2" EACH VARY BY 1"
EW502	5	12	6'-1"	4	1'-6"	3'-1"	1'-6"				
EW505	5	8	10'-4"	STR							
EW506	5	2	10'-5"	STR							
EW507	5	14	15'-0"	STR							
EW508	5	24	8'-4"	4	2'-11"	2'-6"	2'-11"				



• "•" DIMENSION ON 180° HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
 • FOR REINFORCEMENT BAR FABRICATION DETAILS, REFER TO STANDARD DRAWING BC-736M.
 • FIGURES IN CIRCLES SHOW TYPES.
 • "E" - INDICATES EPOXY COATED REBARS.
 • FOR ALL BAR TYPES SHOWN, DIMENSIONS A-H AND LENGTH ARE MEASURED ALONG OUTSIDE OF BAR. R IS MEASURED ALONG INSIDE OF BAR.



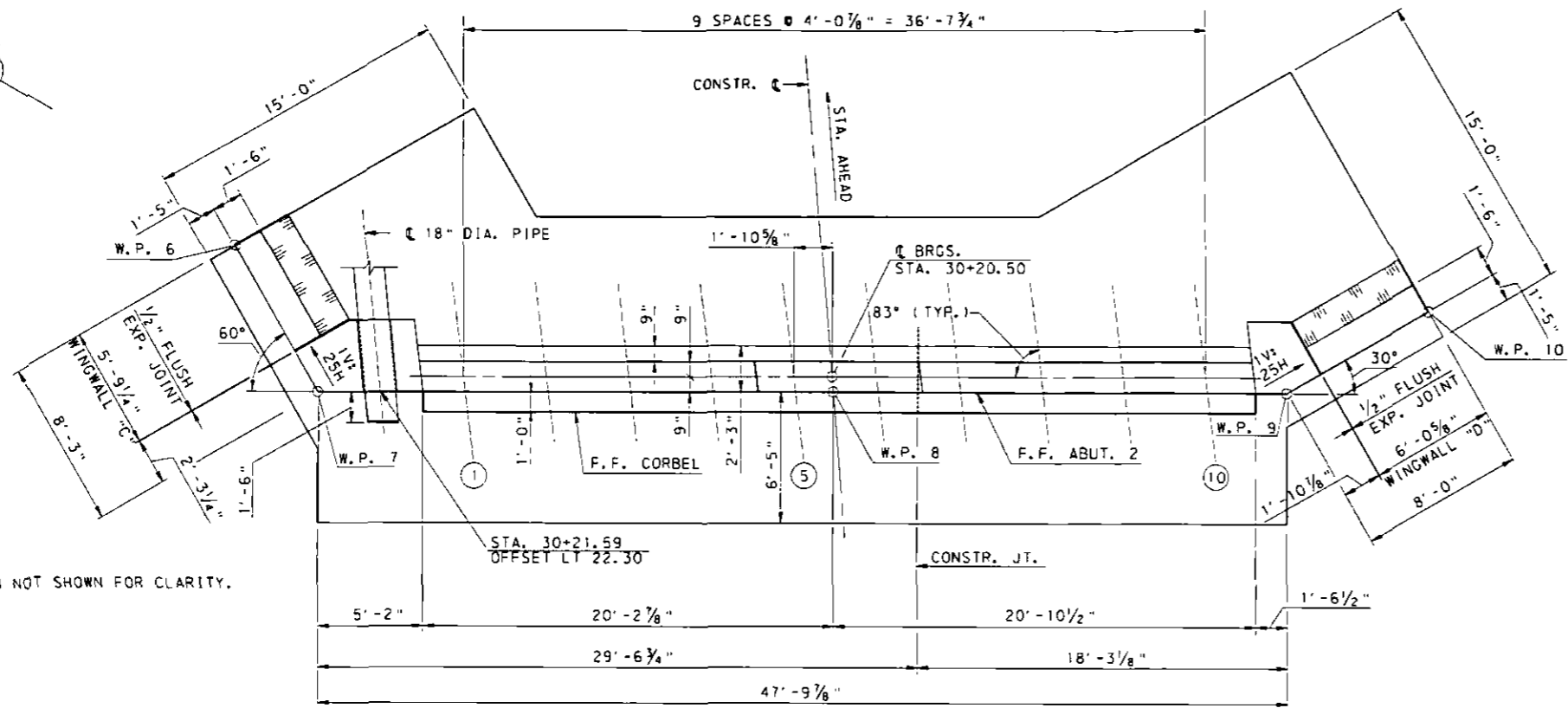
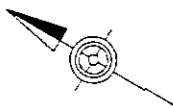
REVISIONS

County of Allegheny
 Pittsburgh, Pennsylvania
 Department of Public Works

CONSTRUCTION DRAWING
 EAST PENNVIEW STREET OVER PINE CREEK
 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
 ABUTMENT 1 REBAR SCHEDULE

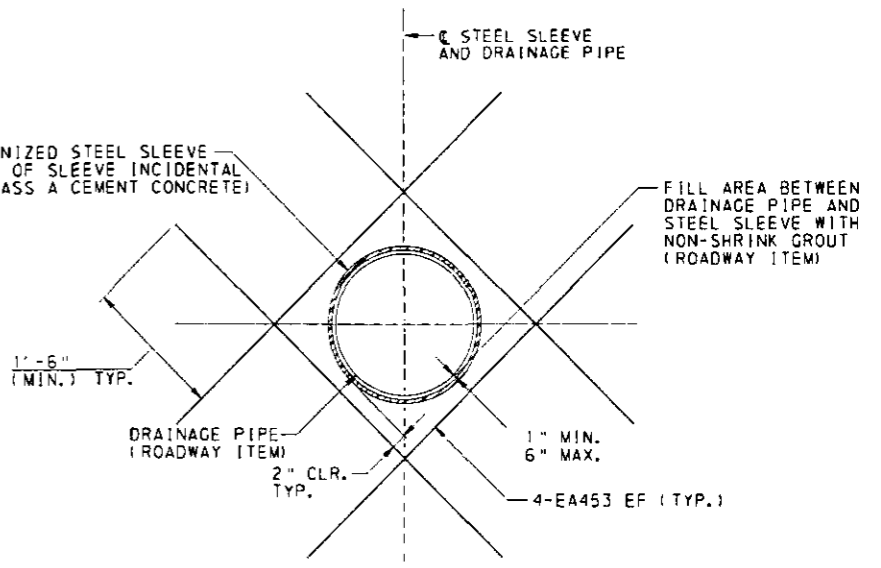
PINE CREEK BRIDGE NO II
 STA 29+87.41 P111-0211

DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 16 OF 46	

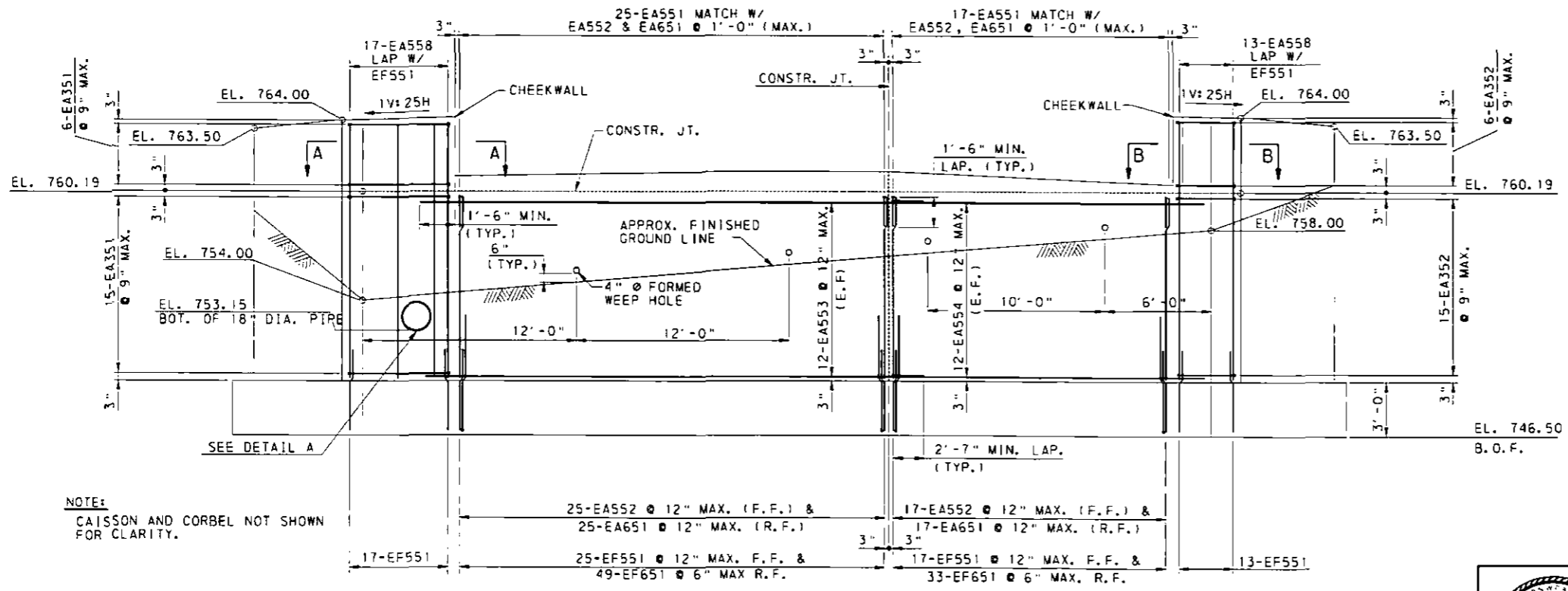


NOTE: CAISSON NOT SHOWN FOR CLARITY.

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



DETAIL A
N.T.S.
NOTE: ADJUST WALL REINFORCEMENT BARS TO CLEAR GALVANIZED STEEL SLEEVE.

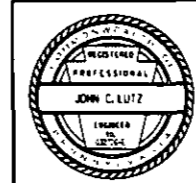


NOTE: CAISSON AND CORBEL NOT SHOWN FOR CLARITY.

- NOTES:
1. FOR GENERAL NOTES, SEE SHEET 2.
 2. FOR CONSTRUCTION & EXPANSION JOINT DETAILS, SEE BC-735M.
 3. FOR WATERPROOFING DETAILS, SEE SHEET 18 AND BC-788M.
 4. FOR SECTIONS A-A THRU D-D, SEE SHEET 18.
 5. APPLY PROTECTIVE COATING TO EXPOSED SUBSTRUCTURE CONCRETE SURFACES. SEE GENERAL NOTES.
 6. FOR REINFORCEMENT SCHEDULE, SEE SHEET 28.
 7. FOR ADDITIONAL INFORMATION OF 18" DIA. PIPE, REFER TO ROADWAY PLAN.

ELEVATION
SCALE: 1/4" = 1'-0"

LEGEND:
F.F. - FRONT FACE
R.F. - REAR FACE
E.F. - EACH FACE
K.C.J. - KEYED CONSTR. JOINT



REVISIONS	

County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
ABUTMENT 2-PLAN & ELEVATION

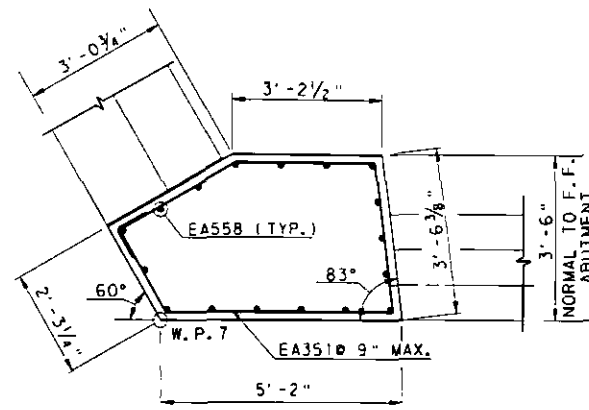
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 17 OF 46	

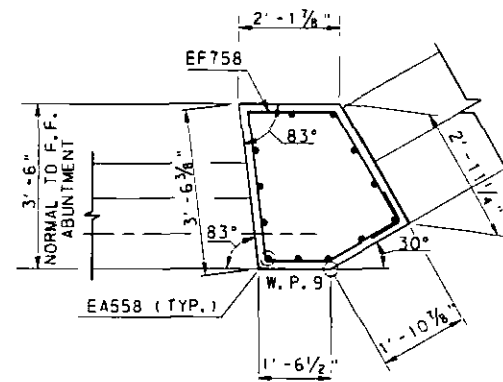
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3/24/2016

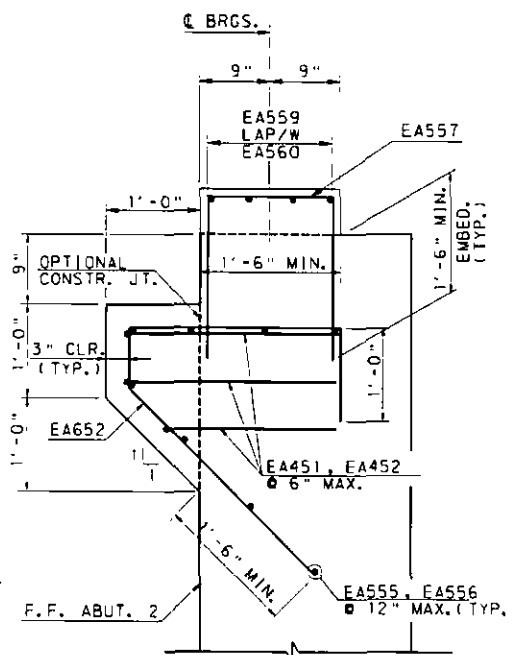
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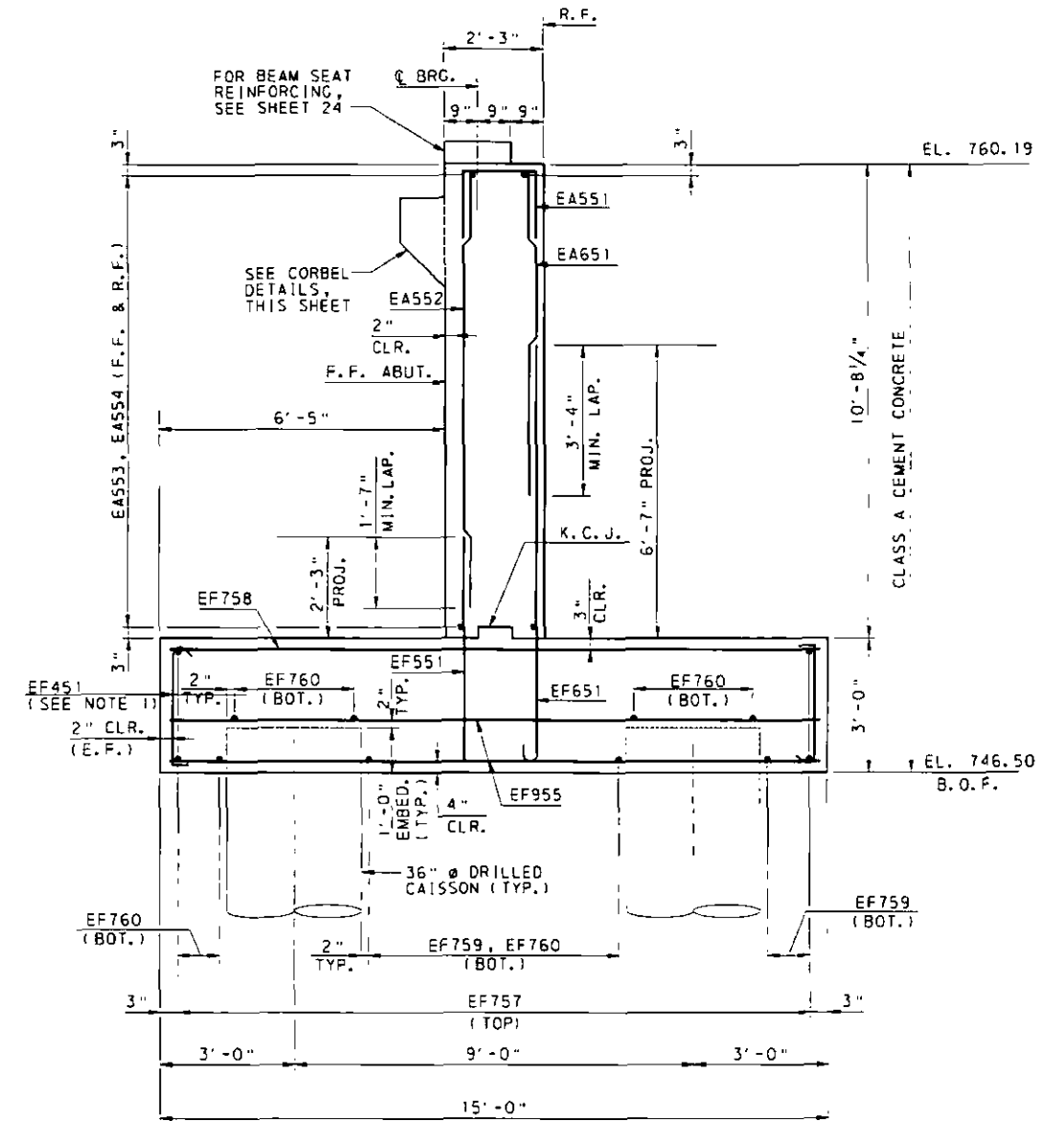
SECTION A-A
 1 0 2 FEET
 SCALE: 1/2" = 1'-0"



SECTION B-B
 1 0 2 FEET
 SCALE: 1/2" = 1'-0"



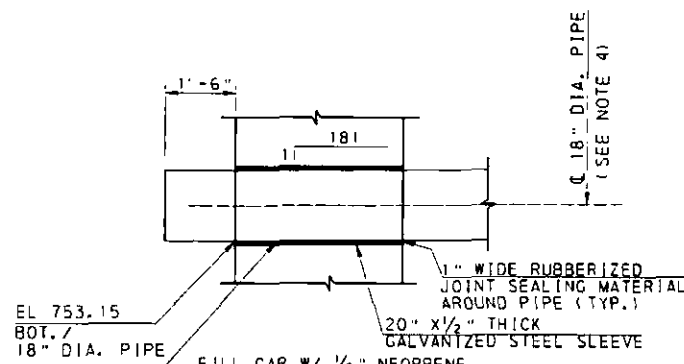
SECTION E-E
 (BEAM SEAT & CORBEL DETAILS)
 N.T.S.



ABUTMENT 2 TYPICAL SECTION
 1 0 2 FEET
 SCALE: 1/2" = 1'-0"

NOTES:

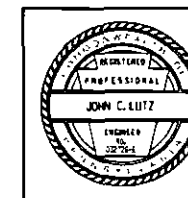
1. TIE TOP AND BOTTOM MATS OF REINFORCING STEEL WITH EF451 TIE BARS AT A MAXIMUM SPACING OF 4'-0" IN BOTH DIRECTIONS. PROVIDE TIE BARS WITH 90 DEG. HOOK AT ONE END AND 135 DEG. AT THE OTHER END. ALTERNATE 90 DEG. AND 135 DEG. HOOKS AT TOP IN ALTERNATE TIES.
2. FOR REINFORCEMENT SCHEDULE, SEE SHEET 28.
3. FOR WATERPROOFING DETAILS, SEE BC-788M.
4. FOR ADDITIONAL INFORMATION OF 18" DIA. PIPE, REFER TO ROADWAY PLAN.
5. FOR BEAM SEAT PLAN AND ELEVATION, SEE SHEET 24.
6. FOR LOCATIONS OF SECTION A-A THRU D-D, SEE SHEET 17.
7. FOR LOCATION OF SECTION E-E, SEE SHEET 24.



SECTION D-D
 (STEEL SLEEVE DETAIL)
 1 0 2 FEET
 SCALE: 1/2" = 1'-0"

LEGEND:

- F.F. - FRONT FACE
- R.F. - REAR FACE
- E.F. - EACH FACE
- K.C.J. - KEYED CONSTR. JOINT



REVISIONS

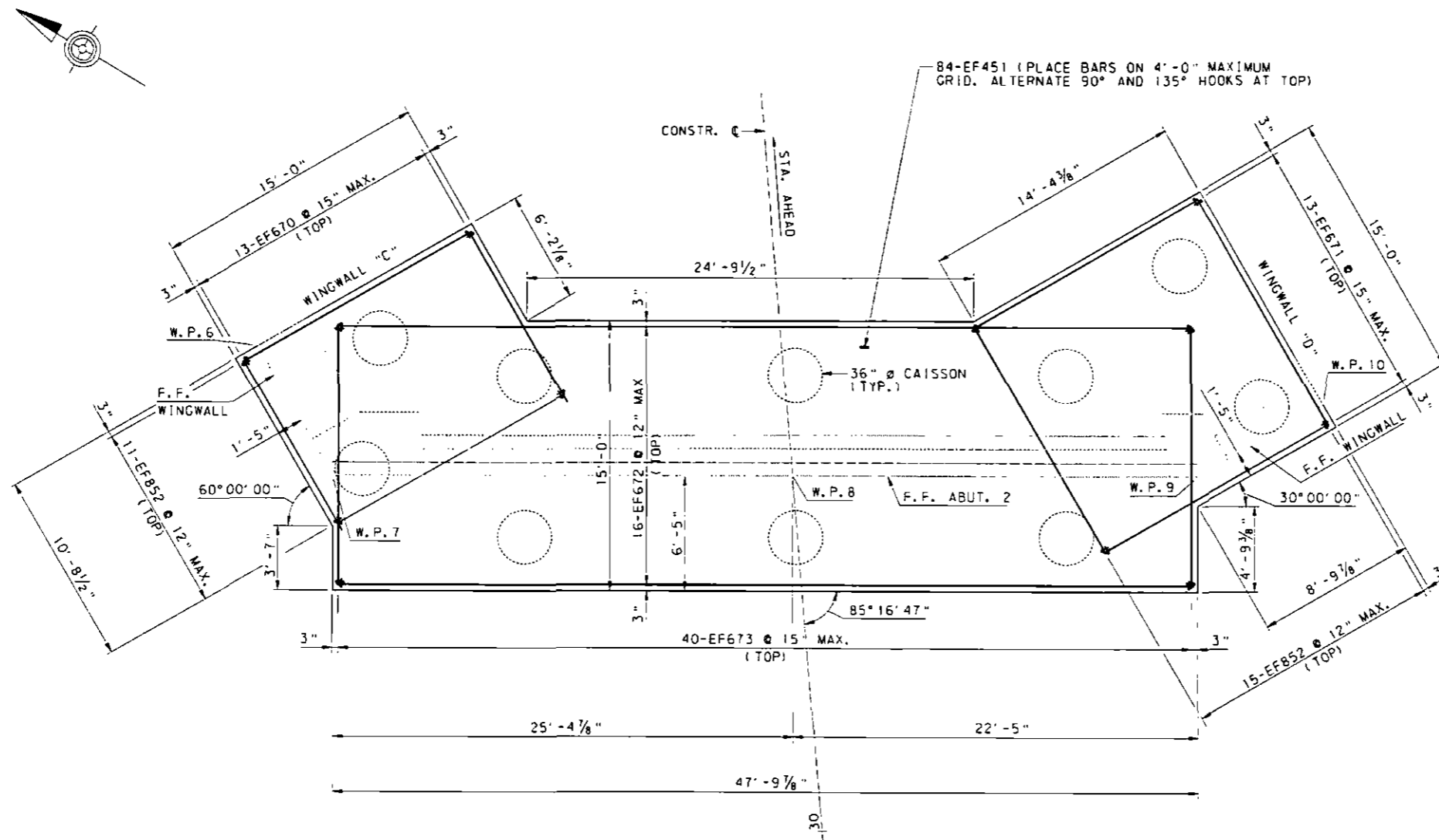
County of Allegheny
 Pittsburgh, Pennsylvania
 Department of Public Works

CONSTRUCTION DRAWING
 EAST PENNVIEW STREET OVER PINE CREEK
 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
ABUTMENT 2 SECTIONS AND DETAILS
 PINE CREEK BRIDGE NO II
 STA 29+87.41 P111-0211

DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 18 OF 46	

5/24/2016

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FOOTING PLAN-1
FOOTING TOP REINFORCEMENT

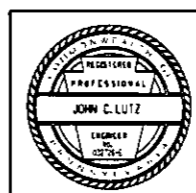
2 0 2 4 FEET
SCALE: 1/4" = 1'-0"

84-EF451 (PLACE BARS ON 4'-0" MAXIMUM GRID. ALTERNATE 90° AND 135° HOOKS AT TOP)

CONSTR. C
STA. AHEAD

- NOTES:
1. FOR GENERAL NOTES, SEE SHEET 2.
 2. FOR CAISSON PLAN, SEE SHEET 22.
 3. WORK THIS SHEET WITH SHEETS 18, 20 AND 21.
 4. FOR REINFORCEMENT BAR SCHEDULE, SEE SHEET 28.

LEGEND
W. P. - WORK POINT



County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

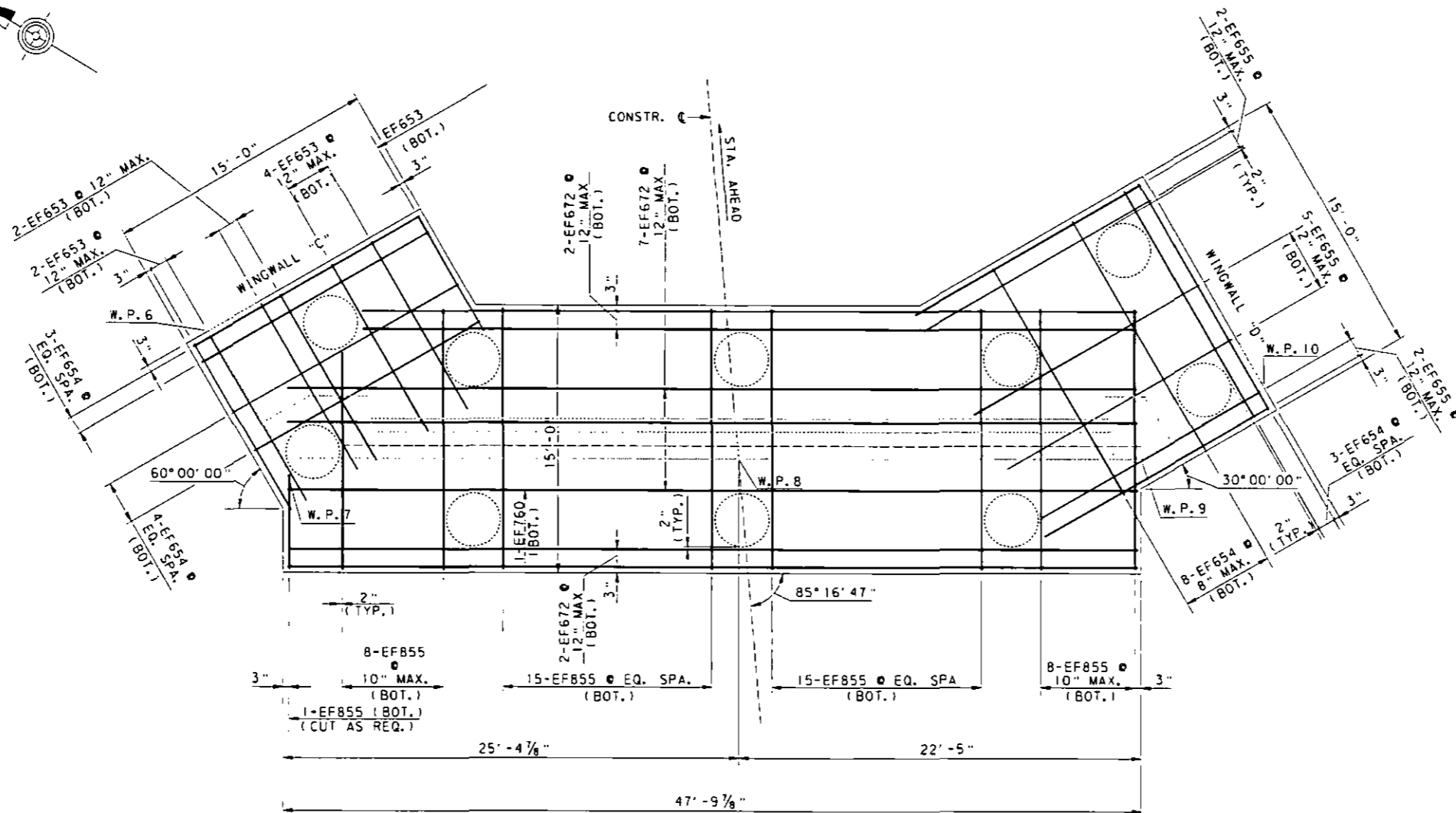
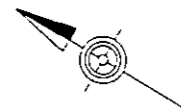
CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
ABUTMENT 2 FOOTING PLAN 1
PINE CREEK BRIDGE NO II
STA 29+87.41 P[11-0211]

DES. MRW	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 19 OF 46	

REVISIONS

3/24/2016

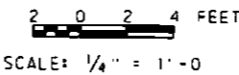
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NOTES:

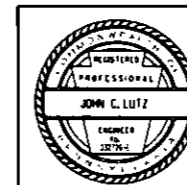
1. FOR GENERAL NOTES, SEE SHEET 2.
2. FOR CAISSON PLAN, SEE SHEET 22.
3. WORK THIS SHEET WITH SHEETS 18, 19 AND 21.
4. FOR REINFORCEMENT BAR SCHEDULE, SEE SHEET 28.

FOOTING PLAN-2
FOOTING BOT. REINFORCEMENT BETWEEN CAISSONS



LEGEND

- W.P. - WORK POINT
- F.F. - FRONT FACE
- BOT - BOTTOM

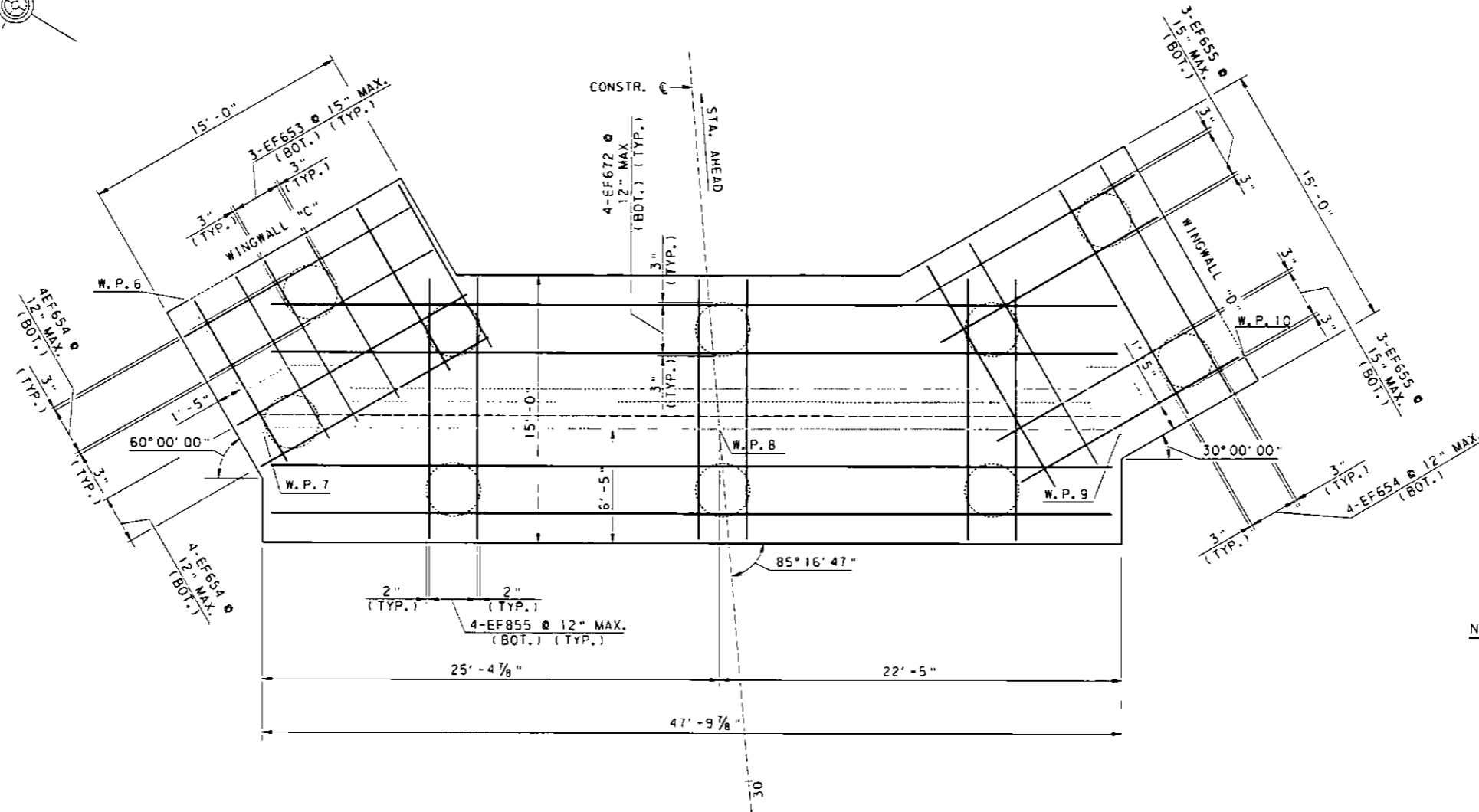
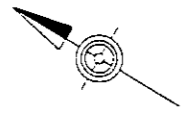


REVISIONS

County of Allegheny Pittsburgh, Pennsylvania Department of Public Works			
CONSTRUCTION DRAWING EAST PENNVIEW STREET OVER PINE CREEK 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE ABUTMENT 2 FOOTING PLAN 2 PINE CREEK BRIDGE NO II STA 29+87.41 P111-0211			
DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 20 OF 46	

1/24/2016

\\SRV\6031-00\CADD\Bridges\PIII-0211\ABUT 2 FOOTING PLAN-3.dwg



FOOTING PLAN-3
FOOTING BOT. REINFORCEMENT ON TOP OF CAISSON

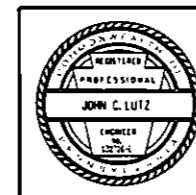
2 0 2 4 FEET
SCALE: 1/4" = 1'-0"

NOTES:

1. FOR GENERAL NOTES, SEE SHEET 2.
2. FOR CAISSON PLAN, SEE SHEET 22.
3. WORK THIS SHEET WITH SHEETS 18, 19 AND 20.
4. FOR REINFORCEMENT BAR SCHEDULE, SEE SHEET 28.

LEGEND:

- W.P. - WORK POINT
- F.F. - FRONT FACE
- BOT. - BOTTOM



REVISIONS

NO.	DATE	BY	DESCRIPTION

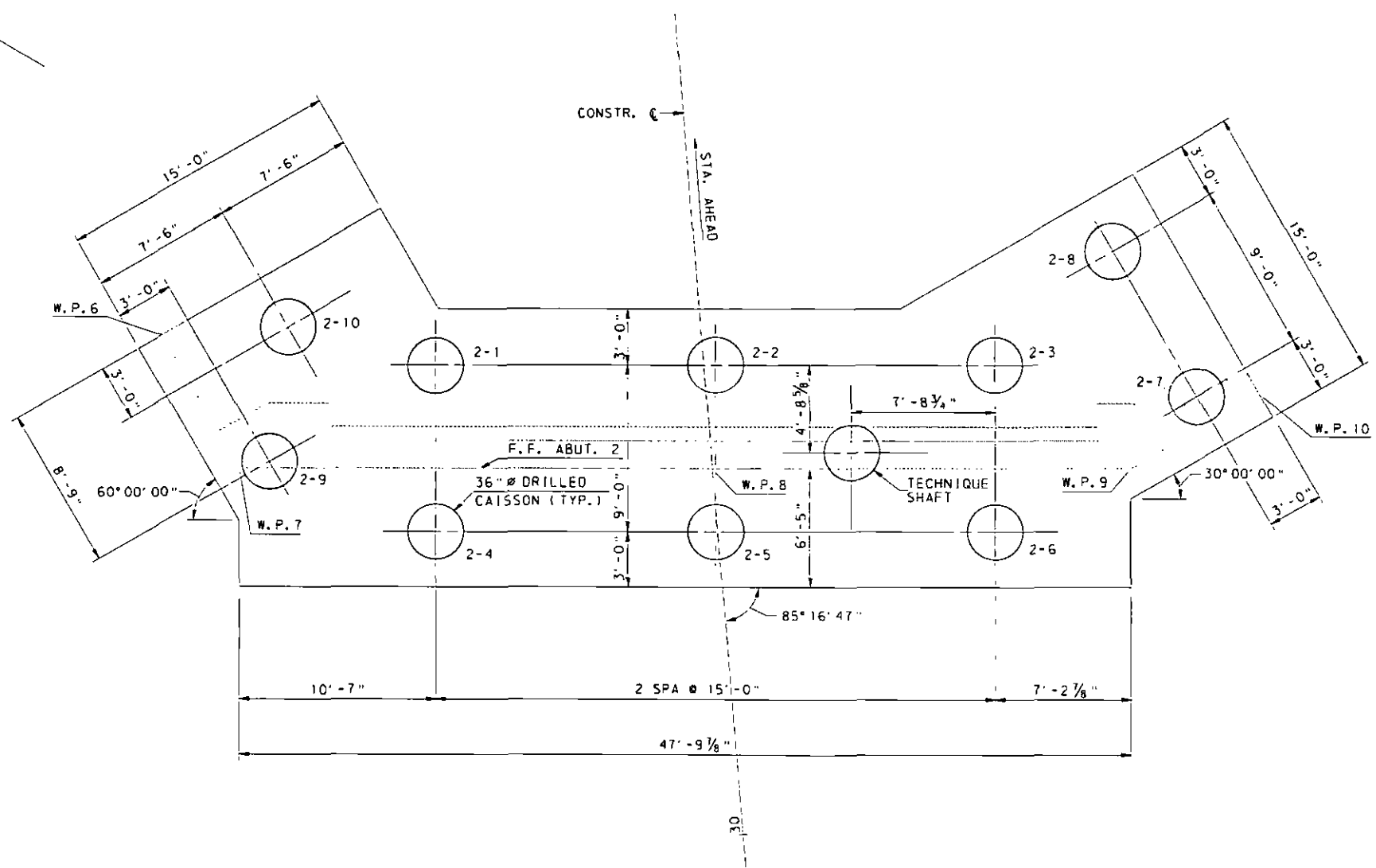
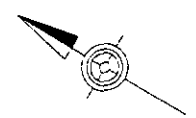
County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
ABUTMENT 2 FOOTING PLAN 3
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 21 OF 46	

1/24/2016

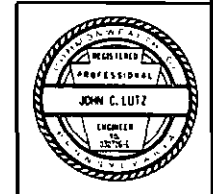
\\SRV01\FRONT-DOX\CADD\617\PROJECTS\INFRA\DESI\ENR\INECR\CRK-SHT22-ABUT 2 CAISSON PLAN.dwg



CAISSON PLAN
 4' 2' 0' 4' 8'
 SCALE: 1/4" = 1'-0"

- NOTES:**
1. FOR GENERAL NOTES, SEE SHEET 2.
 2. FOR CAISSON DETAILS, SEE SHEET 23.

LEGEND:
 W.P. - WORK POINT



REVISIONS	

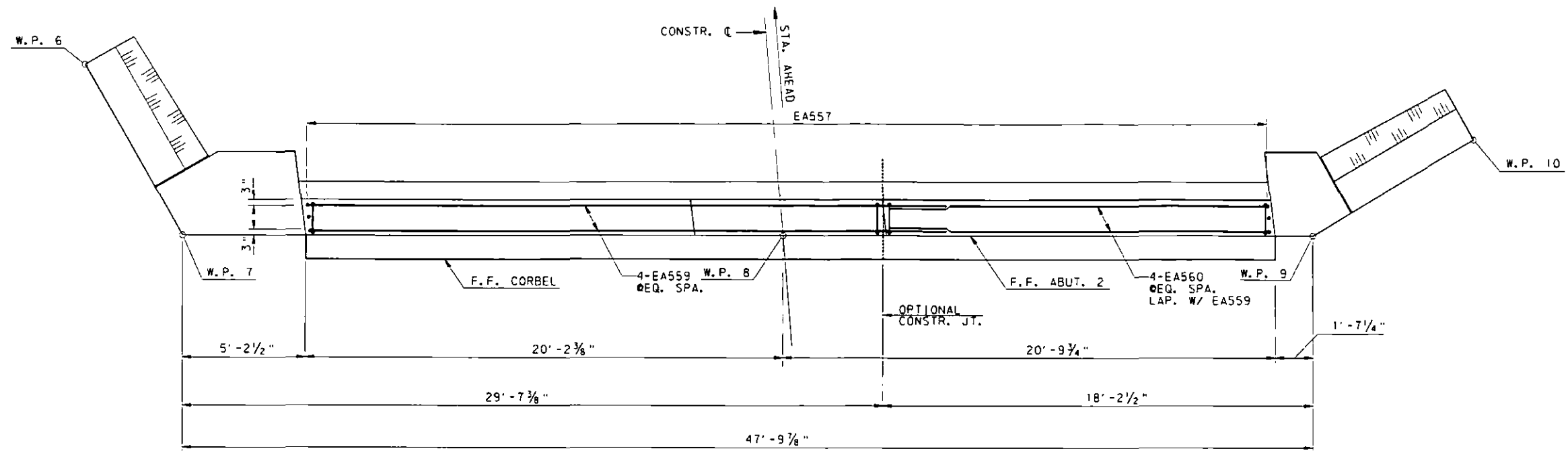
County of Allegheny
 Pittsburgh, Pennsylvania
 Department of Public Works

CONSTRUCTION DRAWING
 EAST PENNVIEW STREET OVER PINE CREEK
 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
ABUTMENT 2 CAISSON PLAN
 PINE CREEK BRIDGE NO II
 STA 29+87.41 P111-0211

DES. MRM	DRW. SRC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 22 OF 46	

3/23/2016

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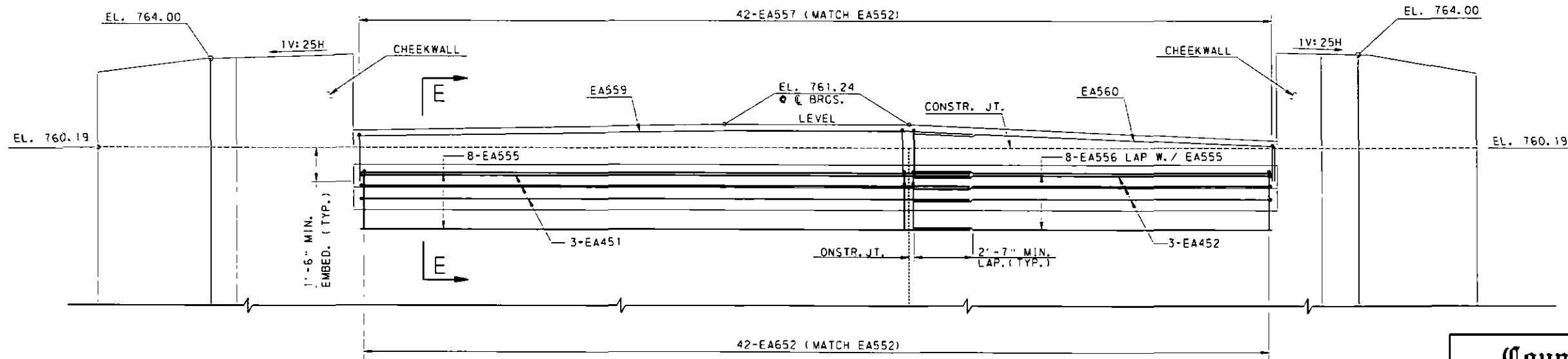


PLAN

1 0 1 2 3 FEET
SCALE: 3/8" = 1'-0"

NOTES:

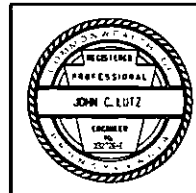
1. FOR GENERAL NOTES, SEE SHEET 2.
2. FOR BEAM SEAT ELEVATIONS, SEE SHEET 25.
3. FOR SECTION E-E, SEE SHEET 18.
4. FOR REINFORCEMENT BAR SCHEDULE, SEE SHEET 28.



ELEVATION

(LOOKING AHEAD STATIONS)
1 0 1 2 3 FEET
SCALE: 3/8" = 1'-0"

- LEGEND:
- F.F. - FRONT FACE
 - R.F. - REAR FACE
 - E.F. - EACH FACE
 - K.C.J. - KEYED CONSTR. JOINT



REVISIONS	

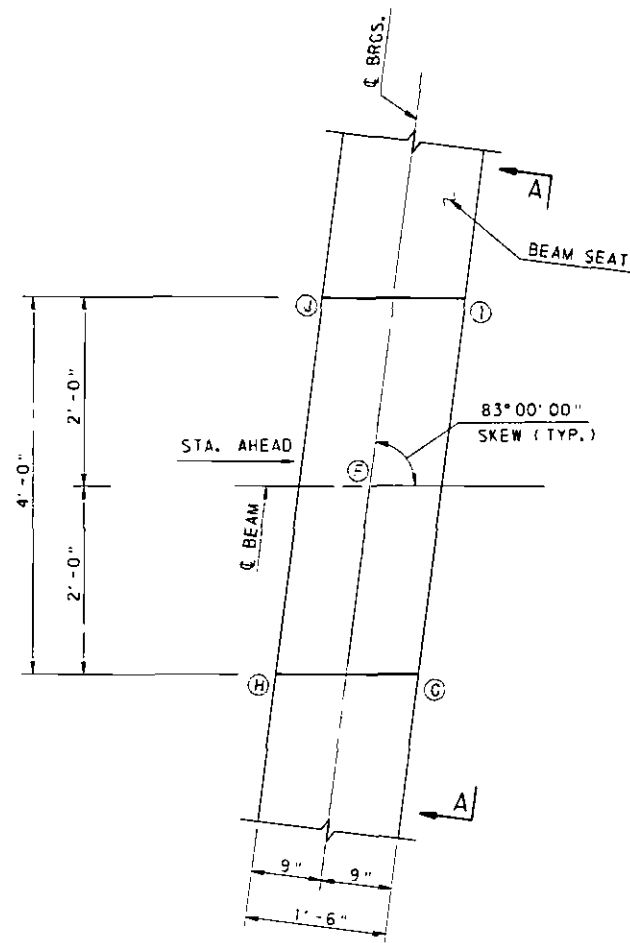
County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
ABUTMENT 2 BEAM SEAT
PLAN AND ELEVATION
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

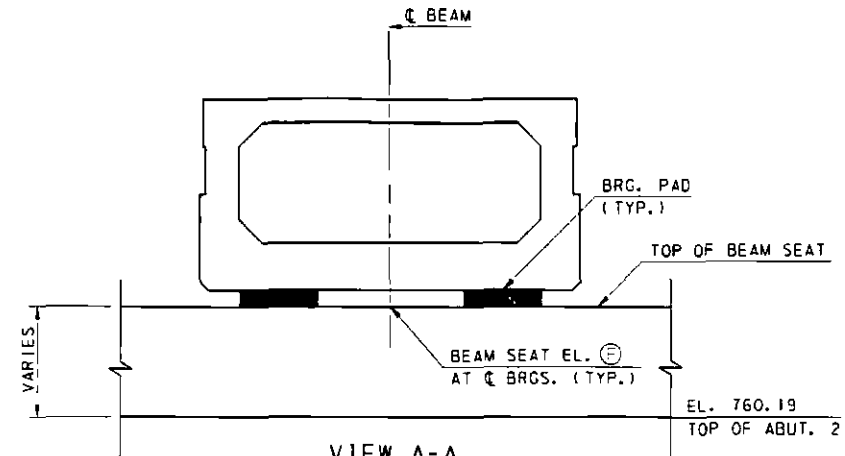
DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 24 OF 46	

3/24/2016

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BEAM SEAT DETAIL 1
N. T. S.



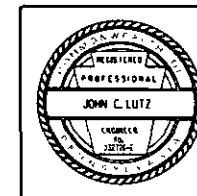
**VIEW A-A
BEAM SEAT DETAIL 2**
N. T. S.

ABUTMENT 2 BEAM SEAT LOCATION AND ELEVATION TABLE						
BEAM NO.	C BEAM OFFSET *	(F)	(I)	(J)	(G)	(H)
①	18'-2 1/8" LT.	760.77	760.70	760.70	760.84	760.84
②	14'-1 1/4" LT.	760.91	760.84	760.84	760.98	760.98
③	10'-0 3/8" LT.	761.06	760.98	760.98	761.13	761.13
④	5'-11 1/2" LT.	761.20	761.13	761.13	761.27	761.27
⑤	1'-10 3/8" LT.	761.27	761.27	761.27	761.27	761.27
⑥	2'-2 1/4" RT.	761.27	761.27	761.27	761.27	761.27
⑦	6'-3 3/8" RT.	761.18	761.27	761.27	761.09	761.09
⑧	10'-4" RT.	761.00	761.09	761.09	760.91	760.91
⑨	14'-4 3/4" RT.	760.82	760.91	760.91	760.73	760.73
⑩	18'-5 3/8" RT.	760.64	760.73	760.73	760.55	760.55

NOTE:
* C BEAM OFFSET IS MEASURED FROM THE CONSTR. C, ALONG THE C OF BEARINGS, LOOKING AHEAD STATIONS.

NOTES:

1. FOR BEAM SEAT REINFORCEMENT DETAILS, SEE SHEET 24.
2. FOR ELASTOMERIC BEARING DETAIL, SEE SHEET 33.



County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

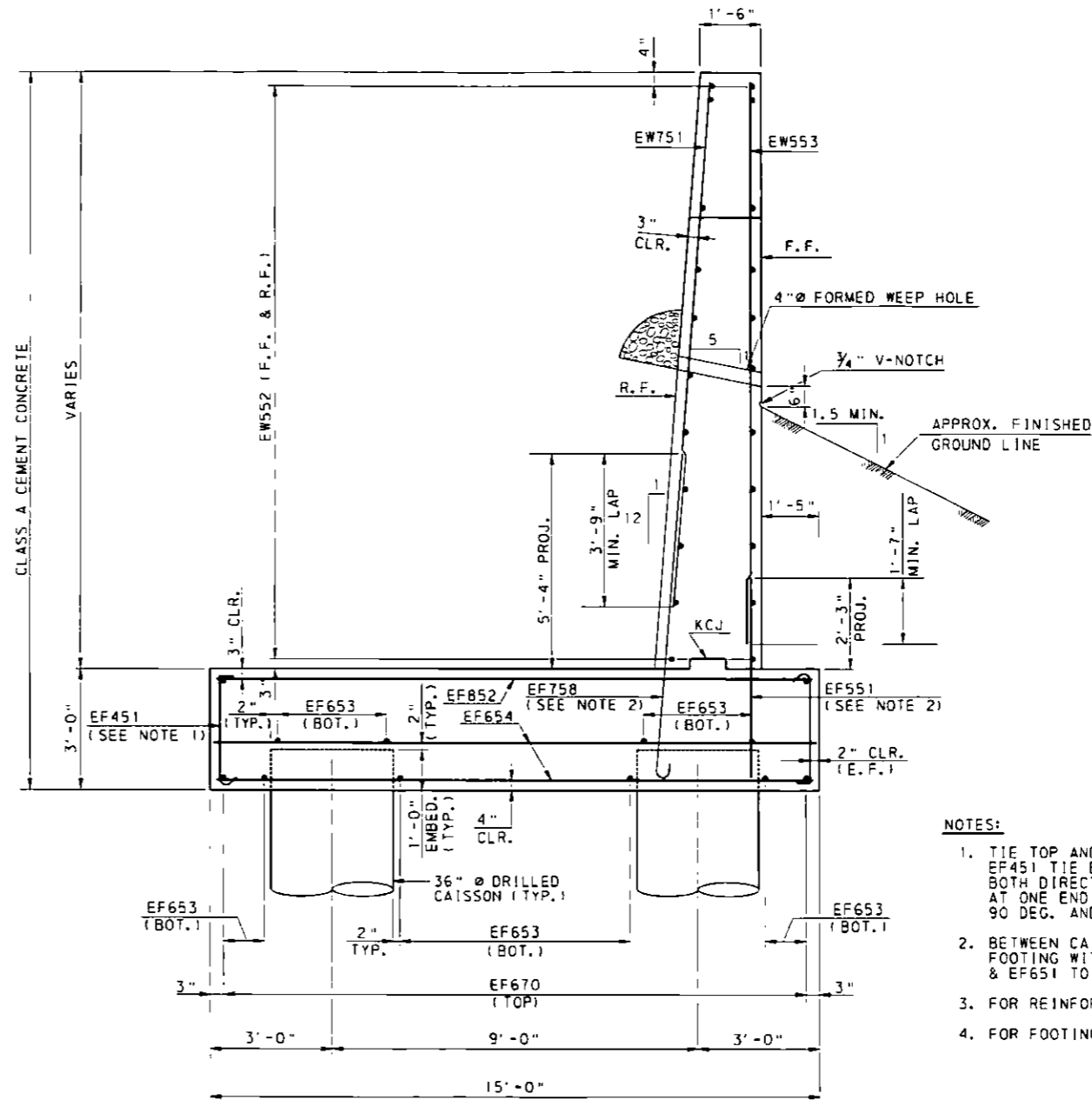
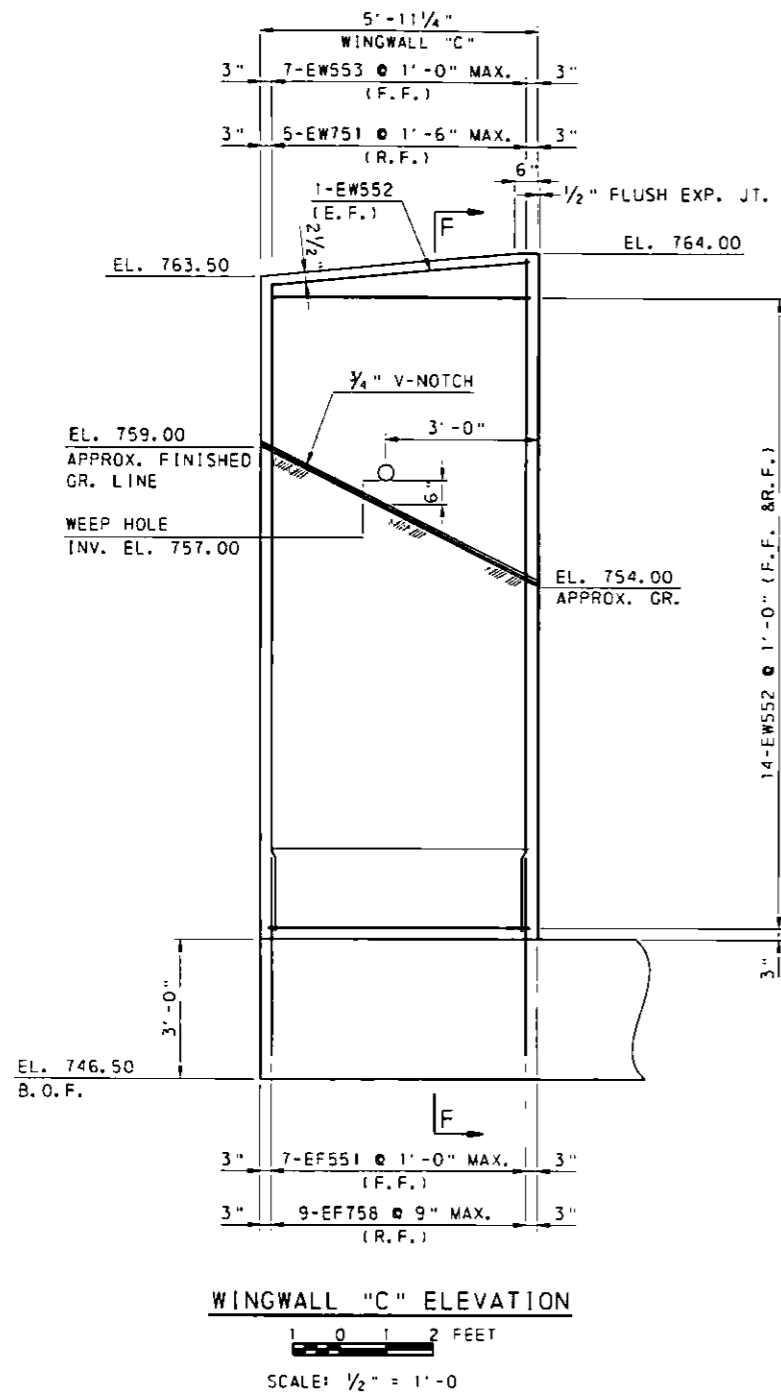
CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
**ABUTMENT 2 BEAM SEAT
DETAILS AND ELEVATION TABLE**
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 25 OF 46	

REVISIONS

1/24/2016

J:\PROJECTS\1-00NCADD\ASR\101010\01\FINAL DESIGN\INTECHER_SHT26_ABUT 2 WINGWALL C.dgn



NOTES:

1. TIE TOP AND BOTTOM MATS OF REINFORCING STEEL WITH EF451 TIE BARS AT A MAXIMUM SPACING OF 4'-0" IN BOTH DIRECTIONS. PROVIDE TIE BARS WITH 90 DEG. HOOK AT ONE END AND 135 DEG. AT THE OTHER END. ALTERNATE 90 DEG. AND 135 DEG. HOOKS AT TOP IN ALTERNATE TIES.
2. BETWEEN CAISSON PLACE EF551 & EF651 TO THE BOTTOM OF FOOTING WITH 4" CLR; ON TOP OF CAISSON, PLACE EF551 & EF651 TO THE TOP OF CAISSON WITH 2" CLR.
3. FOR REINFORCEMENT SCHEDULE, SEE SHEET 28.
4. FOR FOOTING REINFORCEMENT PLAN, SEE SHEETS 19 THRU 21.

LEGEND:

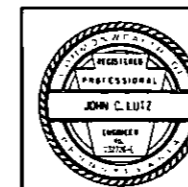
F.F. - FRONT FACE

R.F. - REAR FACE

E.F. - EACH FACE

B.O.F. - BOTTOM OF FOOTING

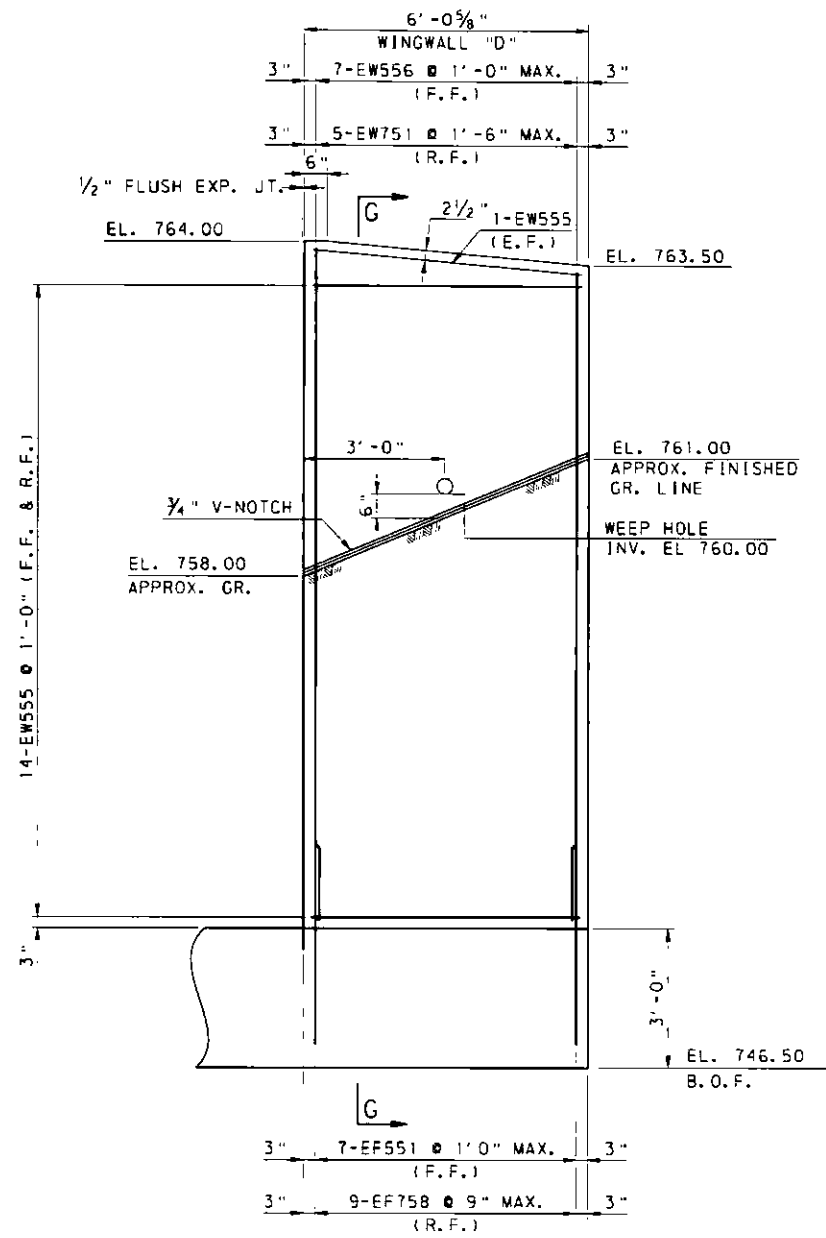
KCL - KEYED CONSTRUCTION JOINT



<p>County of Allegheny Pittsburgh, Pennsylvania Department of Public Works</p>		<p>CONSTRUCTION DRAWING</p>	
		<p>EAST PENNVIEW STREET OVER PINE CREEK 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE</p>	
<p>ABUTMENT 2 WINGWALL "C"</p>		<p>PINE CREEK BRIDGE NO II STA 29+87.41 P111-0211</p>	
		DES. MRM	DRW. ADC
DATE 12/2015	SCALE	SHEET 26 OF 46	

1/24/2016

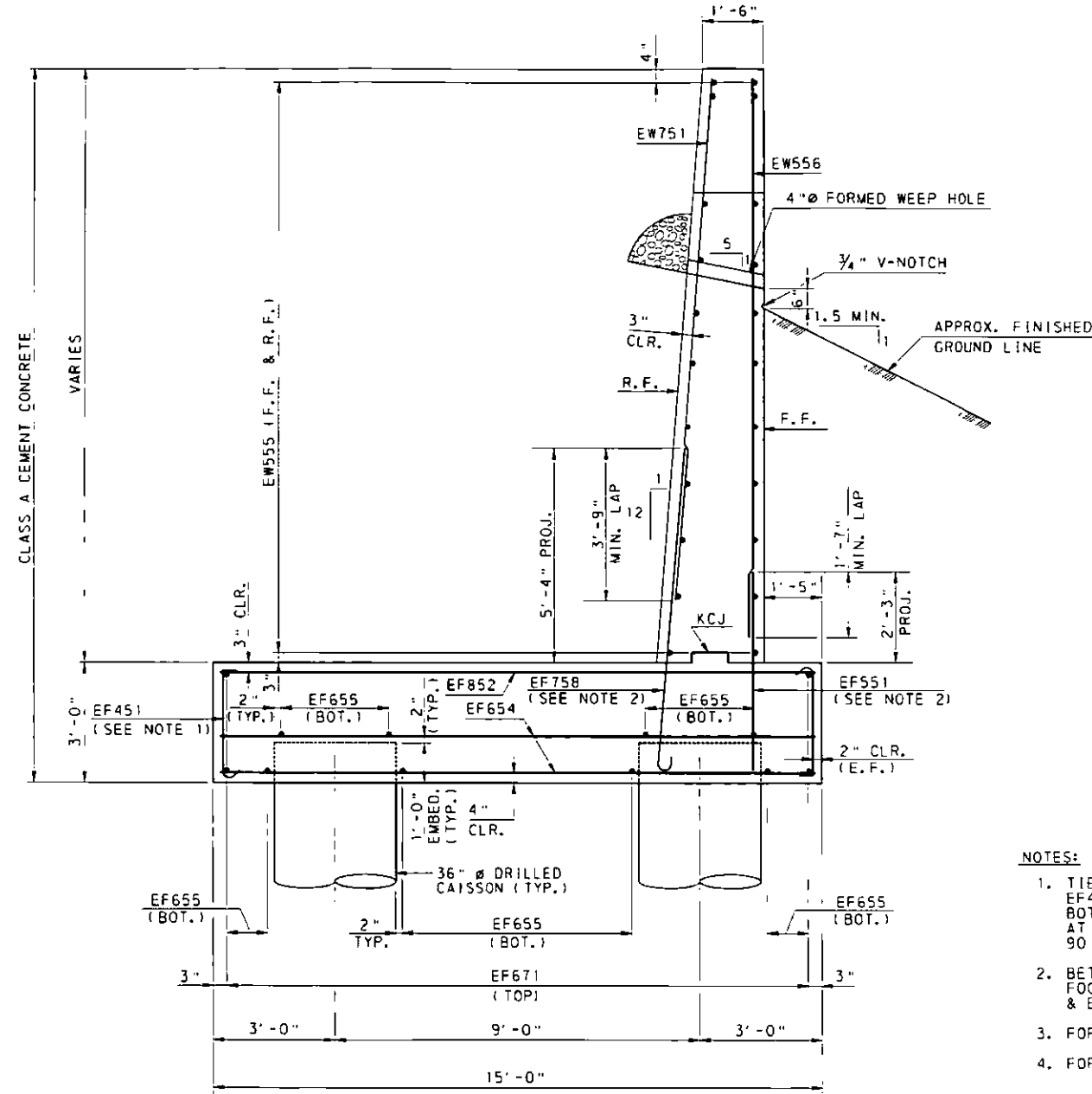
J:\PROJ\16051-BOX CABBINS STRUCTURE\FINAL - DL STOKIN\INCHRECK - SHITZ\ABUT 2 WINGWALL 1.dgn



WINGWALL "D" ELEVATION

1 0 2 FEET

SCALE: 1/2" = 1'-0



SECTION G-G

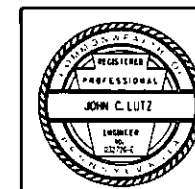
1 0 2 FEET

SCALE: 1/2" = 1'-0

NOTES:

1. TIE TOP AND BOTTOM MATS OF REINFORCING STEEL WITH EF451 TIE BARS AT A MAXIMUM SPACING OF 4'-0" IN BOTH DIRECTIONS. PROVIDE TIE BARS WITH 90 DEG. HOOK AT ONE END AND 135 DEG. AT THE OTHER END. ALTERNATE 90 DEG. AND 135 DEG. HOOKS AT TOP IN ALTERNATE TIES.
2. BETWEEN CAISSON PLACE EF551 & EF651 TO THE BOTTOM OF FOOTING WITH 4" CLR. ON TOP OF CAISSON, PLACE EF51 & EF651 TO THE TOP OF CAISSON WITH 2" CLR.
3. FOR REINFORCEMENT SCHEDULE, SEE SHEET 28.
4. FOR FOOTING REINFORCEMENT PLAN, SEE SHEETS 19 THRU 21.

- LEGEND:
- F.F. - FRONT FACE
 - R.F. - REAR FACE
 - E.F. - EACH FACE
 - B.O.F. - BOTTOM OF FOOTING



REVISIONS	

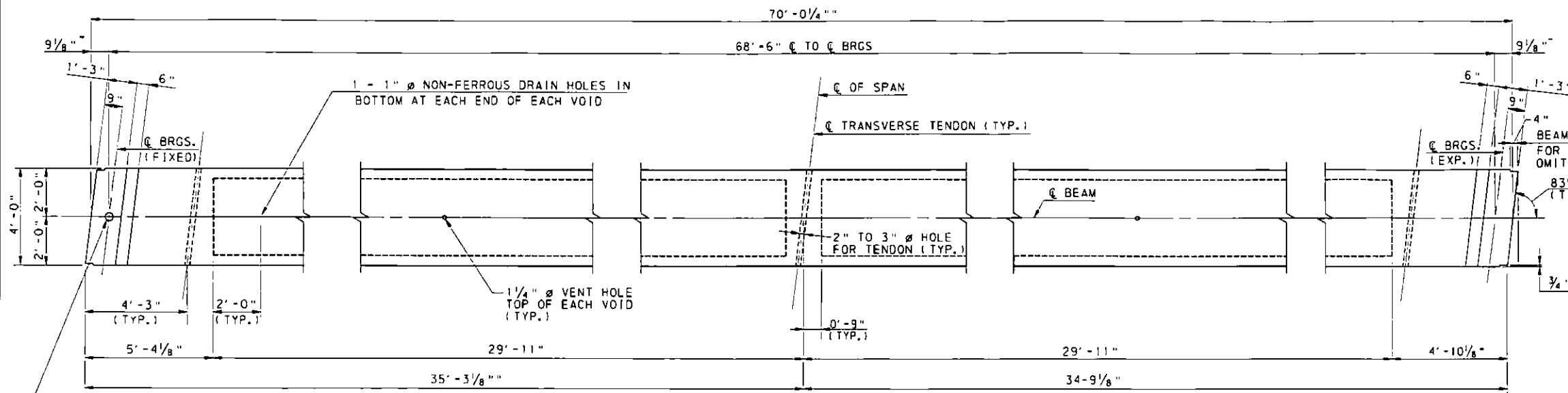
County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
ABUTMENT 2 WINGWALL "D"

PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 27 OF 46	

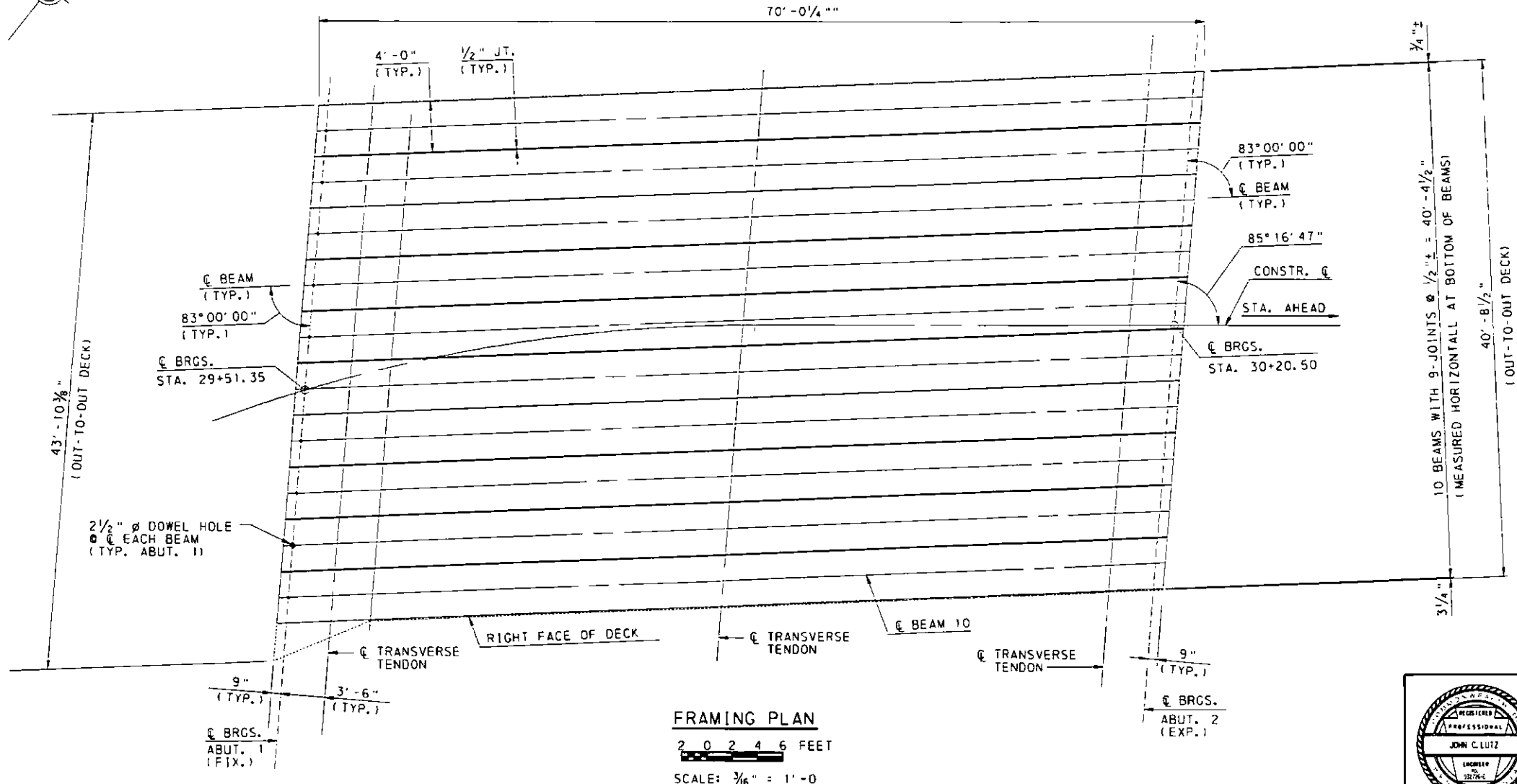
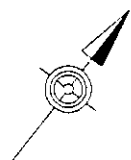
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BEAM PLAN
 1 0 1 2 3 FEET
 SCALE: 3/8" = 1'-0"

BEAM SCHEDULE			
BEAM NO.	BEAM ANGLE	BEAM LENGTH	
		C-C BRG.	TOTAL
1 THRU 10	83°00'00"	68'-6"	70'-0 1/4"

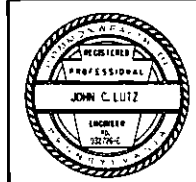
- NOTES:
1. BEAM LENGTH MEASURES AS HORIZONTAL DIMENSION ALONG C BEAM.
 2. BEAM ANGLE MEASURED FROM C BEAM TO C BRG. IN COUNTER CLOCKWISE DIRECTION.



FRAMING PLAN
 2 0 2 4 6 FEET
 SCALE: 3/16" = 1'-0"

- NOTES:
1. FOR GENERAL NOTES, SEE SHEET 2.
 2. FOR WATERPROOFING DETAIL, SEE BC-788M.
 3. FOR MISCELLANEOUS PRESTRESS DETAILS, SEE BC-775M.

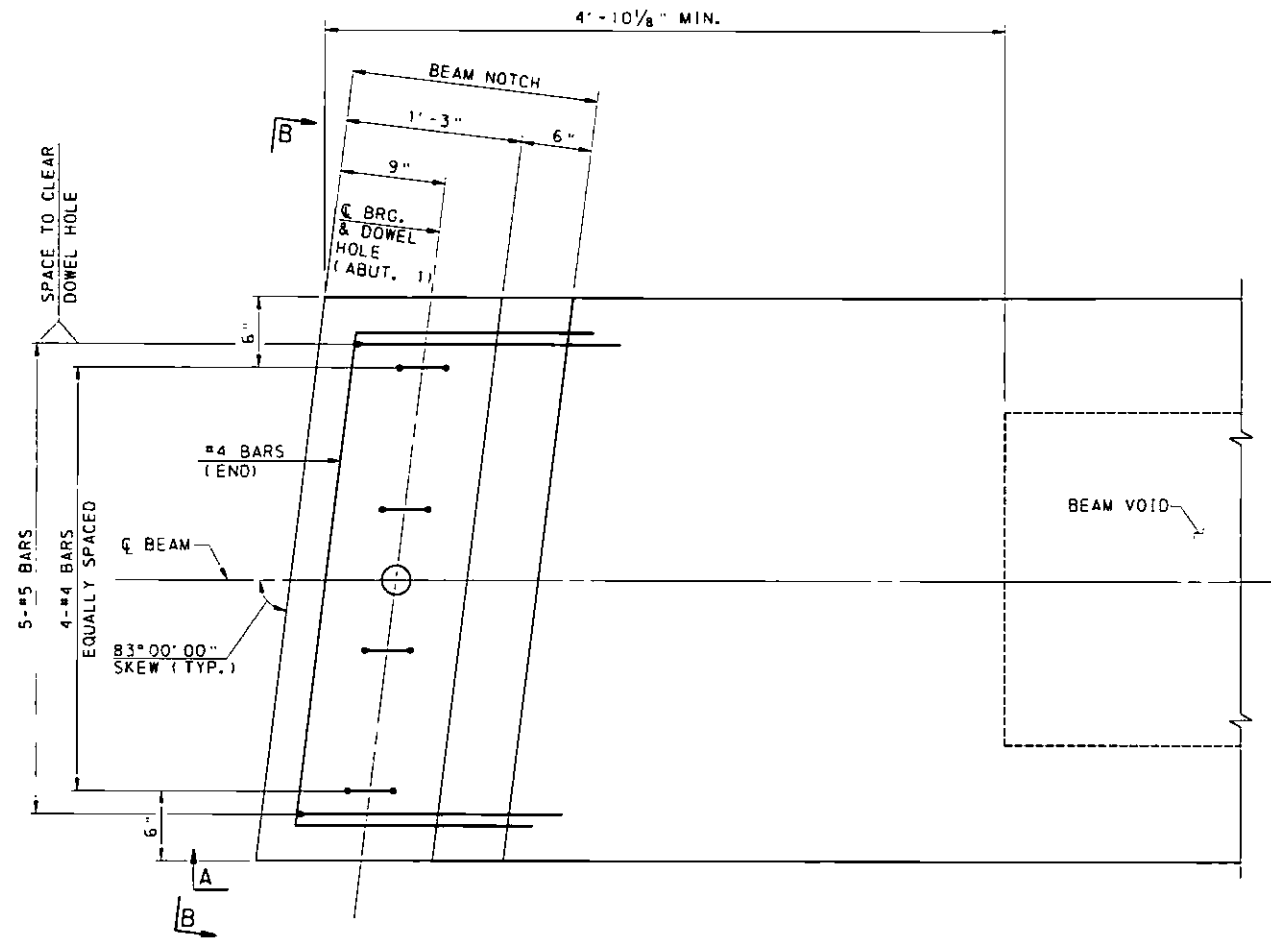
County of Allegheny Pittsburgh, Pennsylvania Department of Public Works			
CONSTRUCTION DRAWING EAST PENNVIEW STREET OVER PINE CREEK 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE FRAMING PLAN PINE CREEK BRIDGE NO II STA 29+87.41 P111-0211			
DES.	MRM	DRW.	ADC
DATE	12/2015	SCALE	SHEET 29 OF 46
CHK.	JCL	26048	



REVISIONS	

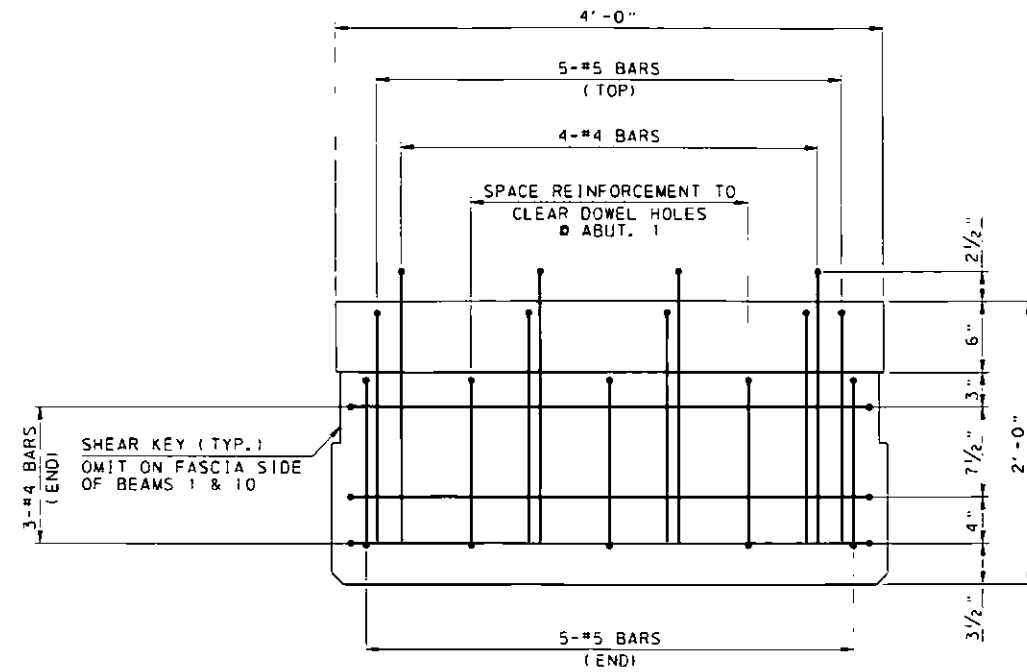
3/24/2016

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PLAN - BEAM END LONGITUDINAL REIN.

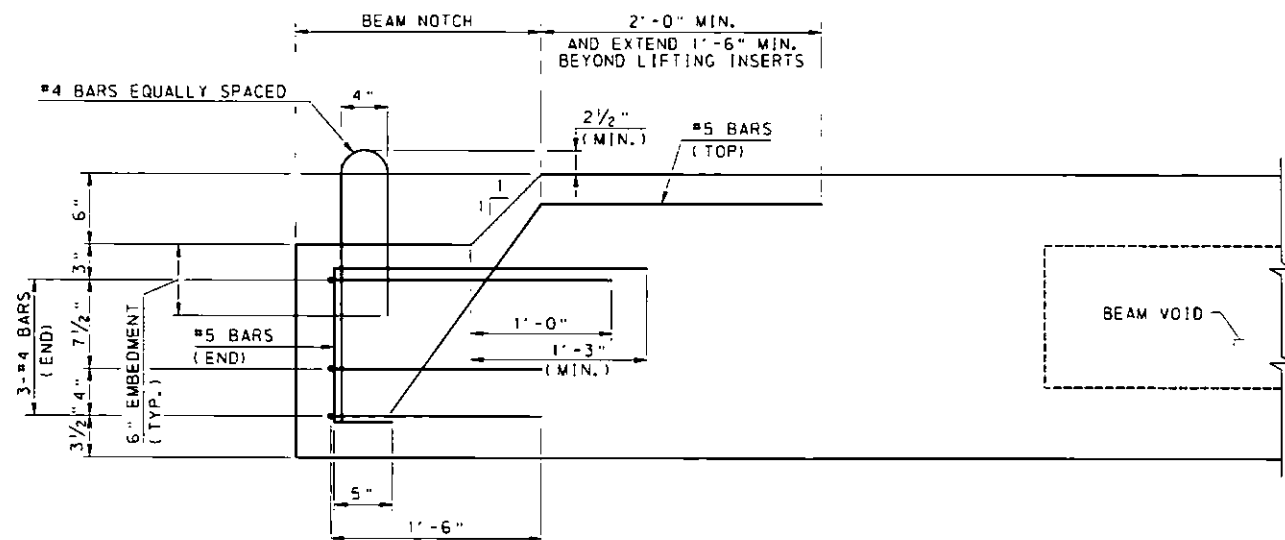
6 0 6 INCHES
SCALE: 1/2" = 1'-0"



VIEW B-B

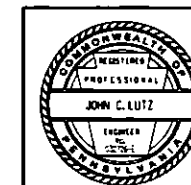
6 0 6 INCHES
SCALE: 1/2" = 1'-0"

NOTE:
1. FOR GENERAL NOTES, SEE SHEET 2.



VIEW A-A
END ELEVATION

6 0 6 INCHES
SCALE: 1/2" = 1'-0"

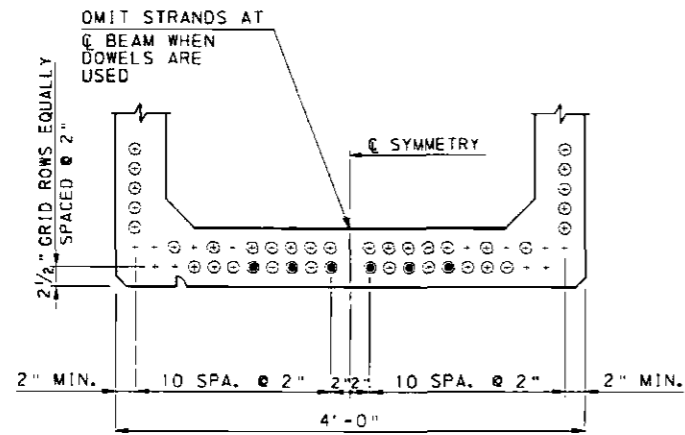


REVISIONS	

County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
BOX BEAM FABRICATION
DETAILS-2
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

DES.	MRM	DRW.	ADC	CHK.	JCL	26048
DATE	12/2015	SCALE		SHEET	31 OF 46	



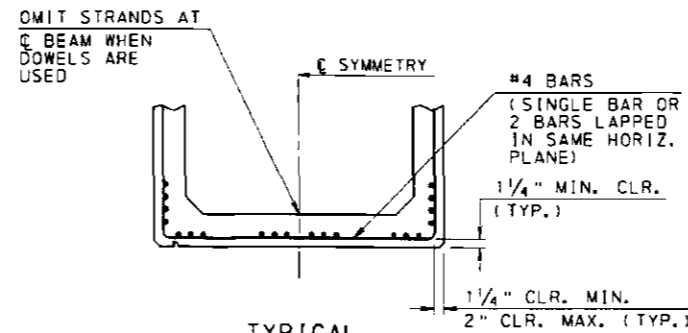
LEGEND:

- - DEBOND FOR 2'-6" FROM C OF BRG.
- - POSSIBLE STRAND LOCATION
- ⊙ - STRAND LOCATION

NOTES:

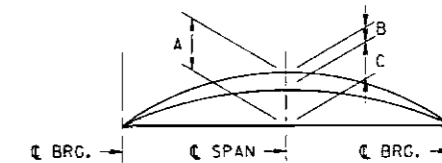
1. DO NOT PLACE MORE THAN ONE COLUMN OF PRESTRESSING STRANDS IN THE WEB.
2. DO NOT PLACE PRESTRESSING STRANDS AT CORNER LOCATION IN BOTTOM ROW.
3. SEE BC-775M FOR GROUTED RECESS FOR STRANDS AT BEAM ENDS.

TYPICAL STRAND PATTERN
N. T. S.



TYPICAL STRAND CONFINEMENT
N. T. S.

CAMBER TABLE			
BEAM NO.	A (IN)	B (IN)	C (IN)
①	1.88	1.23	0.65
②, ③	1.88	1.36	0.52
④-⑦	1.88	0.96	0.92
⑧, ⑨	1.88	1.36	0.52
⑩	1.88	1.35	0.53

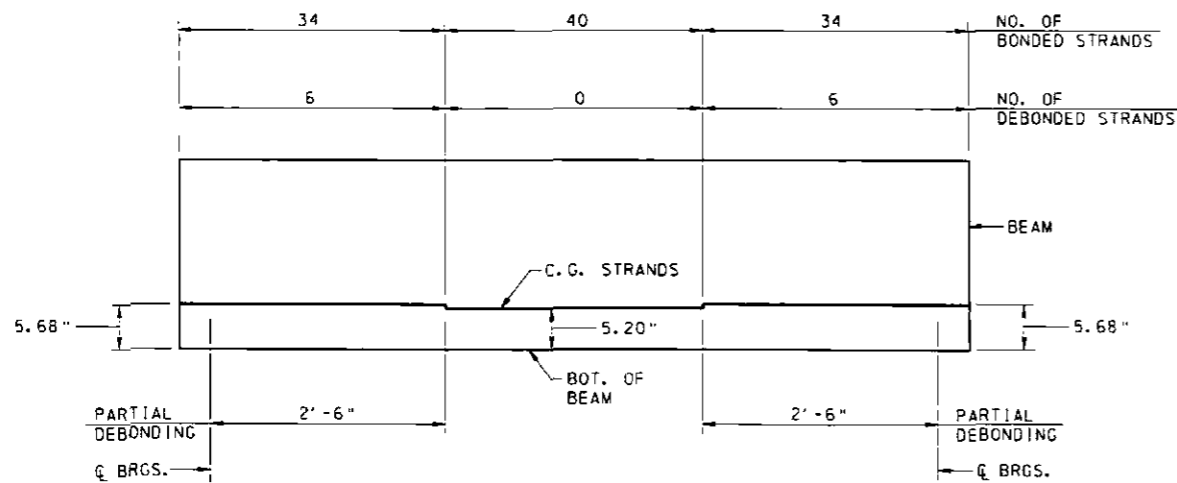


BEAM CAMBER DIAGRAM

- A= ESTIMATED PRESTRESS CAMBER LESS DEFLECTION DUE TO DEAD LOAD OF BEAM TIMES CREEP FACTOR (CHECK IN FIELD).
- B= DEFLECTION DUE TO ALL DEAD LOAD EXCEPT BEAM WEIGHT AND FUTURE WEARING SURFACE.
- C= A-B = NET FINAL CAMBER
THE THICKNESS OF THE CONCRETE DECK SHALL BE VARIED TO ACHIEVE THE REQUIRED VERTICAL GEOMETRY AND TO COMPENSATE FOR ANY INACCURACIES IN BEAM CAMBER.
- A, B AND C ARE THEORETICAL VALUES AND MAY VARY WITH ACTUAL CONCRETE STRENGTH (AGE), VARIOUS PRESTRESSING CONDITIONS, CREEP FACTOR AND PRESTRESS LOSSES.
- USE A CREEP FACTOR EQUAL TO 1.60 AND P/S LOSS EQUAL TO 10%.

PRESTRESSED DATA

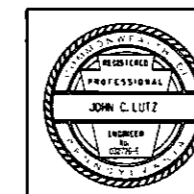
- 270 ksi LOW RELAXATION STRANDS, 0.52" DIA.,
- 0.167 in² STRAND AREA
- CONCRETE STRENGTH AT STRAND RELEASE (f_{ci}) 6800 psi
- CONCRETE STRENGTH AT 28 DAYS (f_c) 8000 psi
- JACKING PRESTRESS STRESS 187960 psi
- JACKING PRESTRESS FORCE 1352.7 kips
- TRANSFER PRESTRESS FORCE 1255.6 kips



TYPICAL STRAND CONFIGURATION
N. T. S.

NOTE:

NUMBER OF DEBONDED STRANDS DOES NOT INCLUDE CRACK CONTROL DEBONDING



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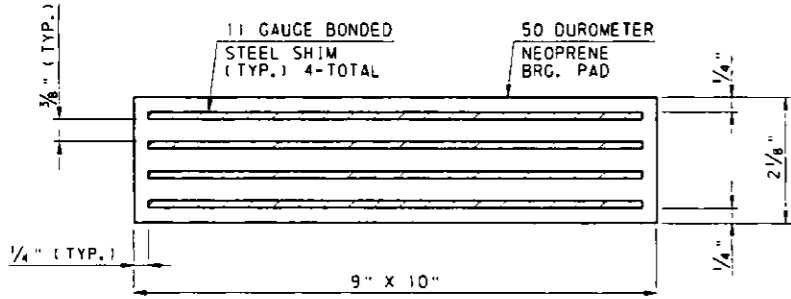
CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE

STRAND TABLES

PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

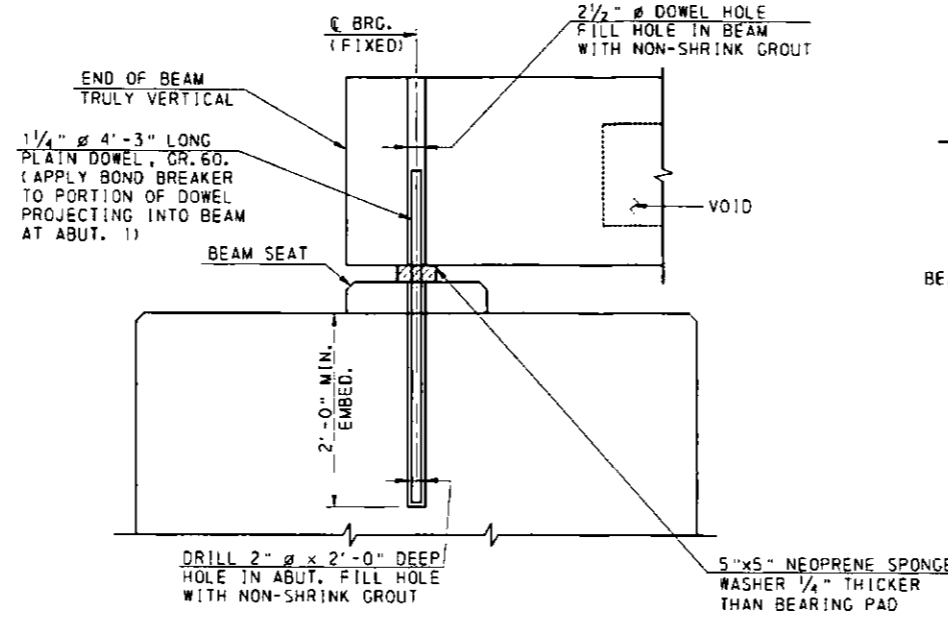
DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 32 OF 46	

4/24/2016
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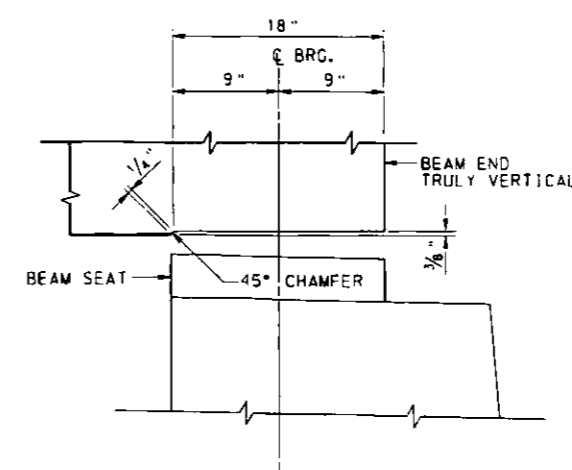
ELASTOMERIC BEARING PAD DETAILS

(FIXED END - ABUT. 1)
 (EXP. END - ABUT. 2)
 NOT TO SCALE



SECTION A-A DOWEL DETAIL AT ABUT. 1

6 0 6 INCHES
 SCALE: 1/2" = 1'-0"



**SECTION B-B
 ABUTMENT 2
 BEAM DAP DETAIL**

NOT TO SCALE

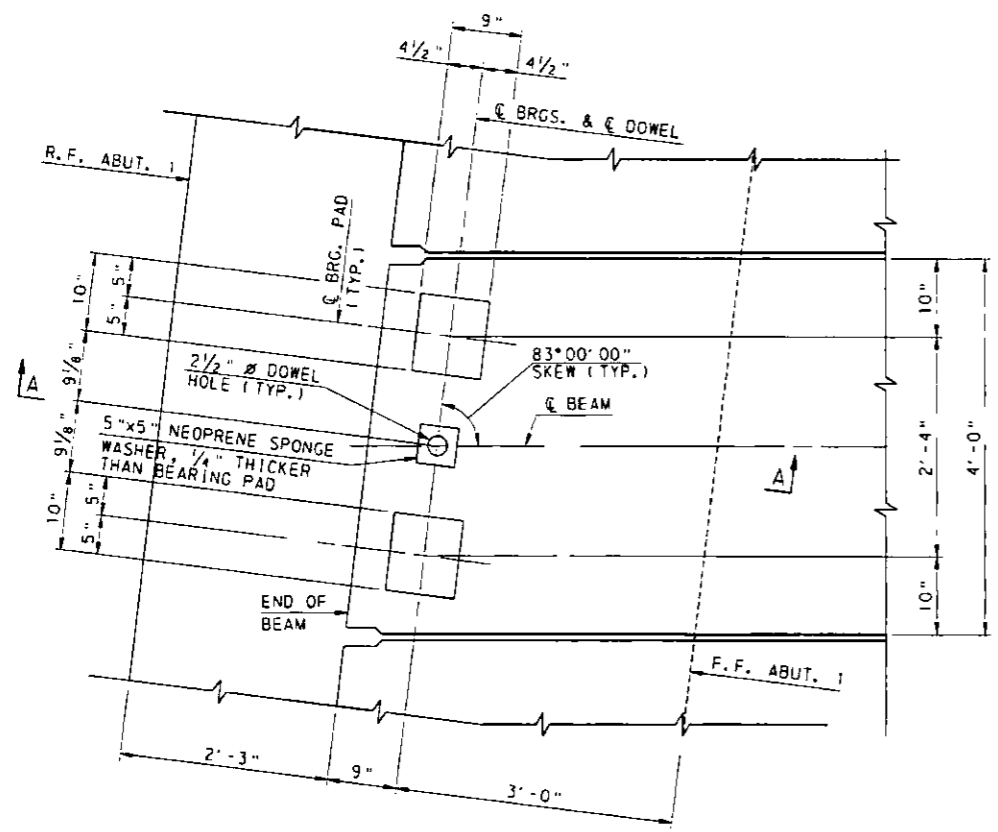
BEARING PAD QUANTITY TABLE		
LOCATION	FIXED BRG.	EXPANSION BRG.
ABUTMENT 1	20	---
ABUTMENT 2	---	20
TESTING	---	1
TOTAL	20	21

DESIGN CRITERIA:

- EXPANSION LENGTH = 68'-6"
- TEMP. RANGE FOR BEARING DESIGN = 80 DEG F
- TEMP. RANGE FOR SUBSTRUCTURE DESIGN = 58 DEG F
- LL ROTATION ABOUT TRANSVERSE AXIS OF PAD = 0.0030 RAD
- LL ROTATION ABOUT LONGITUDINAL AXIS OF PAD = 0.0004 RAD
- CONSTRUCTION TOLERANCE ABOUT TRANSVERSE AXIS OF PAD = 0.0037 RAD
- CONSTRUCTION TOLERANCE ABOUT LONGITUDINAL AXIS OF PAD = 0.0003 RAD
- DL1 ROTATIONAL MOVEMENT = 0 INCH (SEE BEARING NOTE 1)
- DL2 ROTATIONAL MOVEMENT = 0 INCH (SEE BEARING NOTE 1)
- LL ROTATIONAL MOVEMENT = 0.110 INCH
- MAX DL REACTION = 50.9 KIP
- MIN DL REACTION = 37.2 KIP
- MAX LL REACTION (W/O IMPACT) = 49.4 KIP
- MIN LL REACTION (W/O IMPACT) = 24.7 KIP

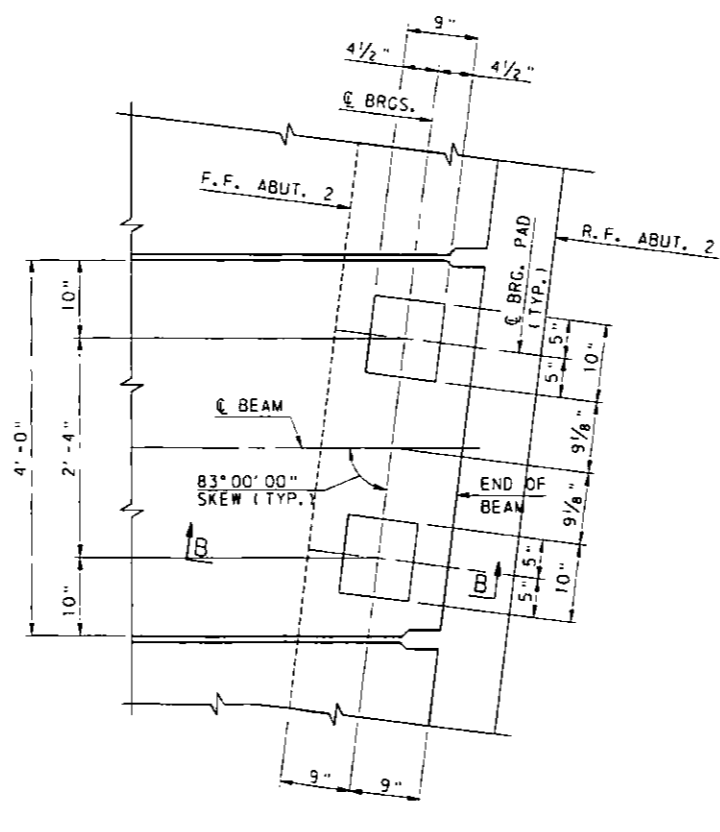
BEARING NOTES:

1. JACK BEAMS AFTER DECK PLACEMENT TO RESET EXPANSION BEARINGS.
2. FOR GENERAL NOTES, SEE SHEET 2.
3. FOR ADDITIONAL BEARING DETAILS, SEE BC-755M.
4. MANUFACTURE ALL BEARINGS IN ACCORDANCE WITH THE COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PLANS AND SPECIFICATIONS (PUB. 408) SECTION 1113 AND DM-4.
5. ALL BEARING PADS ARE TO BE MOLDED TO DESIGN DIMENSIONS. CUTTING TO SIZE AFTER FABRICATION IS PROHIBITED.
6. PROVIDE NEOPRENE 50 +/- 5 DUROMETER.
7. VULCANIZE PITCH PIN GROOVES.
8. USE CONTRACT DRAWINGS TO FABRICATE ELASTOMERIC PADS. (SHOP DRAWINGS NOT REQUIRED).
9. PROVIDED MINIMUM LOW-TEMPERATURE NEOPRENE GRADE 3.
10. BEARING PADS WILL BE SAMPLED FOR TESTING ACCORDING TO PTM NO. 312.



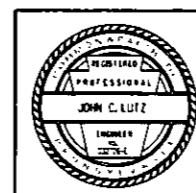
ABUT. 1 BEARING PAD PLACEMENT - PLAN

(FIXED)
 6 0 6 12 INCHES
 SCALE: 1" = 1'-0"



ABUT. 2 BEARING PAD PLACEMENT - PLAN

(EXP.)
 6 0 6 12 INCHES
 SCALE: 1" = 1'-0"



REVISIONS			

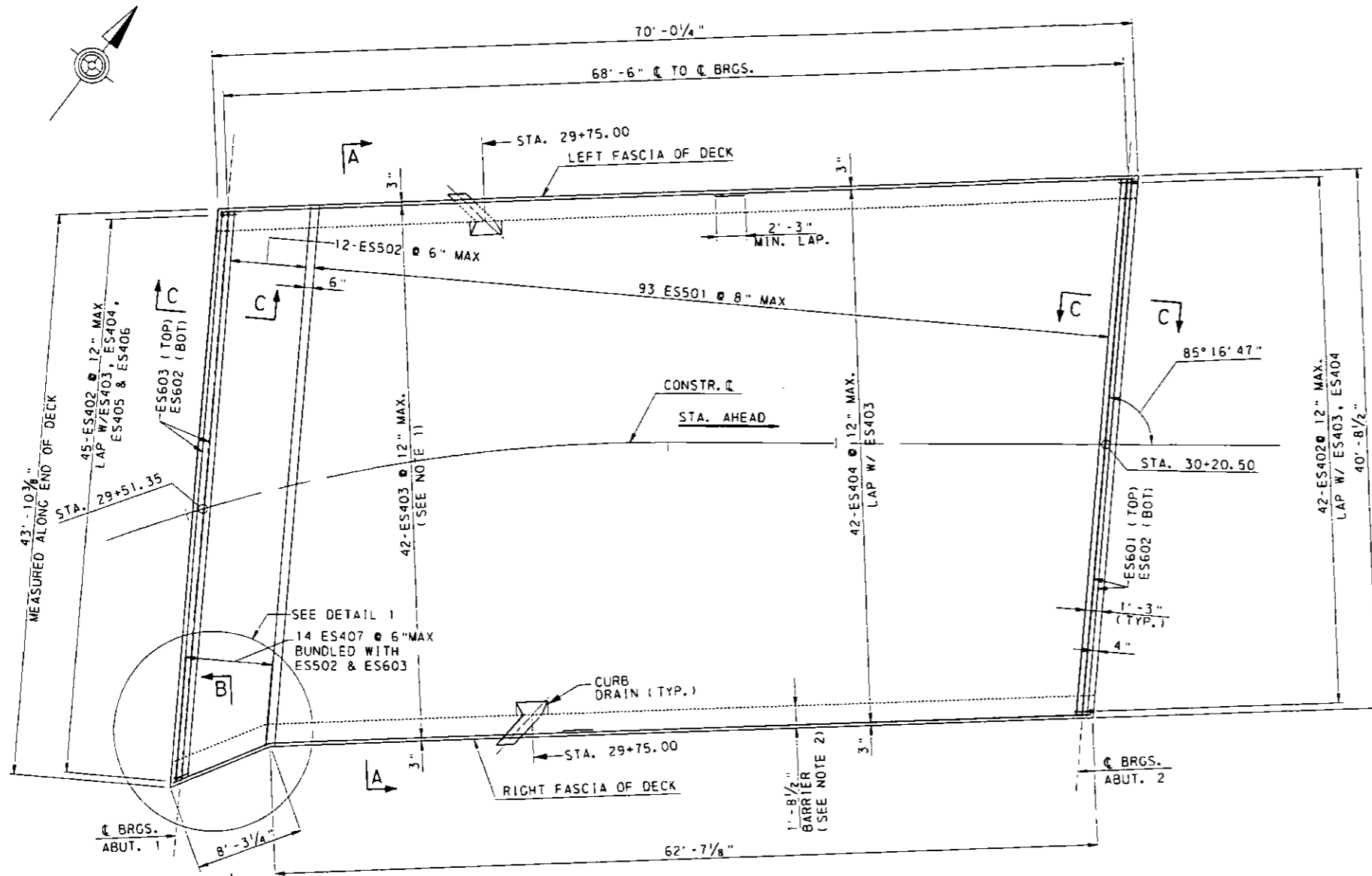
County of Allegheny
 Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
 EAST PENNVIEW STREET OVER PINE CREEK
 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
BEARING AND BEAM DAP DETAILS
 PINE CREEK BRIDGE NO II
 STA 29+87.41 P111-0211

DES. WRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 33 OF 46	

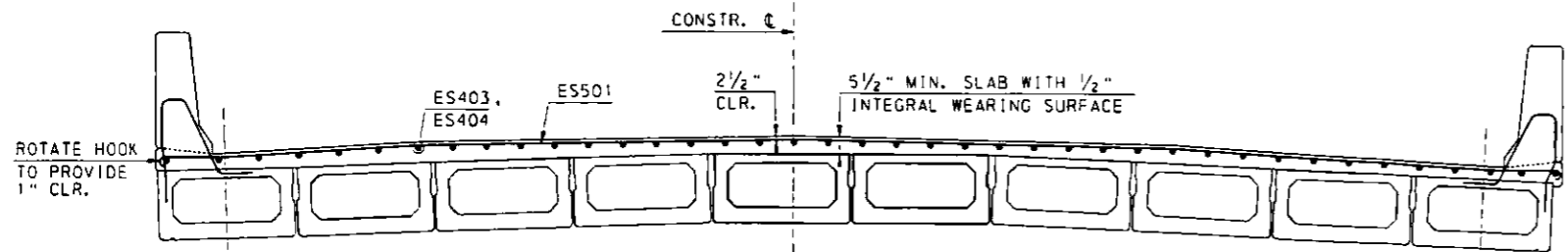
1/24/2016

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SLAB REINFORCING PLAN

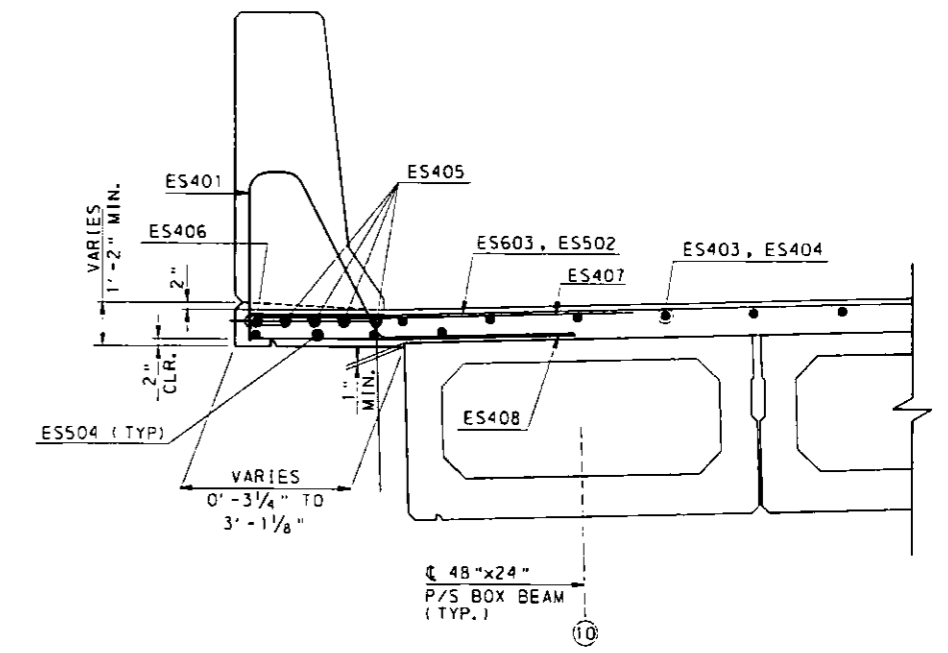
2 0 2 4 6 FEET
SCALE: 3/8" = 1'-0"



SECTION A-A
CONCRETE SLAB

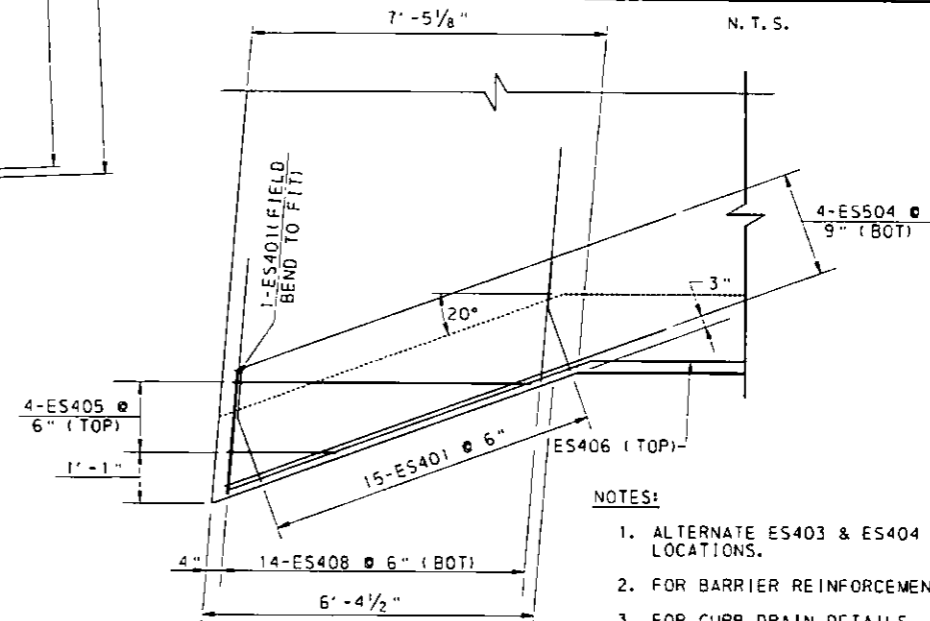
1 0 1 2 3 FEET
SCALE: 3/8" = 1'-0"

FOR CROSS SLOPES, SEE TYPICAL SECTION ON SHEET 35.



SECTION B-B
SLAB KINK AT ABUT. 1

N. T. S.

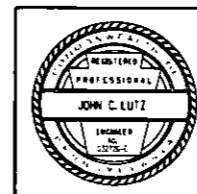


DETAIL 1

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

NOTES:

1. ALTERNATE ES403 & ES404 TO STAGGER LAP SPLICE LOCATIONS.
2. FOR BARRIER REINFORCEMENT, SEE SHEETS 36 & 37.
3. FOR CURB DRAIN DETAILS, SEE SHEET 36 AND BC-751M.
4. FOR SECTION C-C, SEE SHEET 35.



REVISIONS	

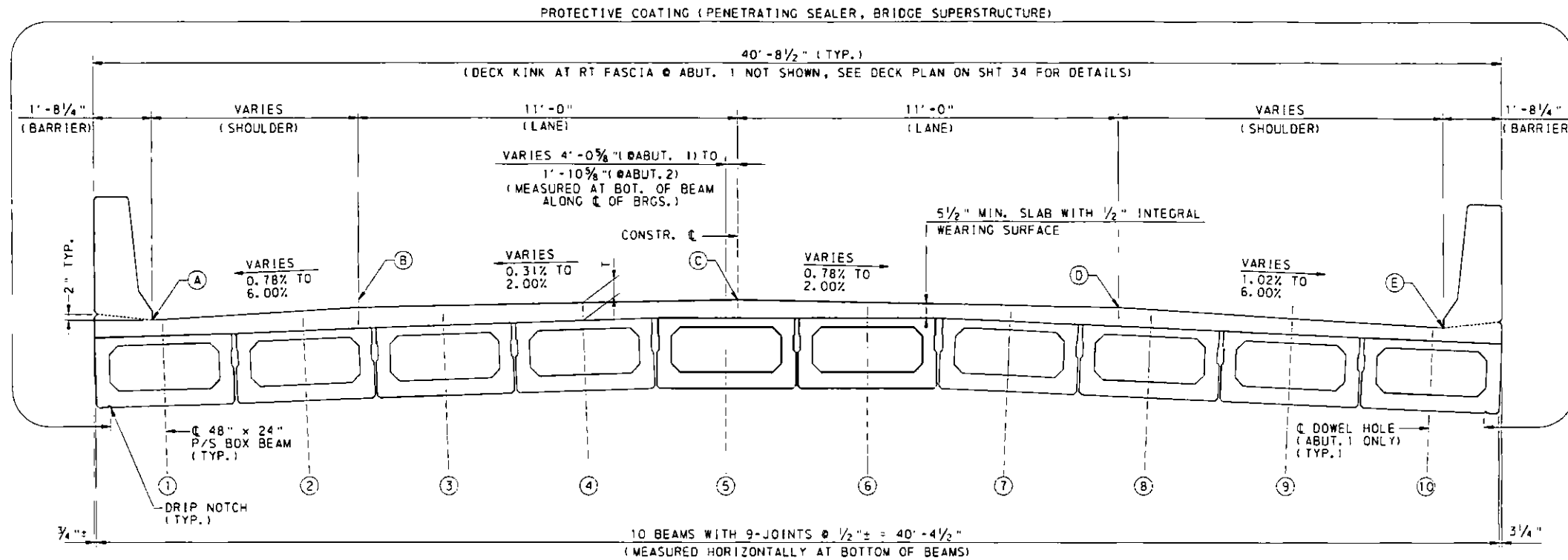
County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
DECK SLAB PLAN
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

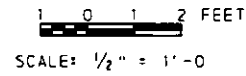
DES. MRW	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 34 OF 46	

5/24/2016

IF MIRROR IMAGE - DON'T ADD AS TRIP TO PLAN. DESIGNED BY: JCL/CHK: JCL/APP: JCL/DATE: 12/15/15. Dwg. No. 26048. SHEET 35 OF 46. FILE: BRIDGE-TYP-SECTION-F15V-TAB1E.dwg



TYPICAL SECTION
(LOOKING AHEAD STATIONS)



LOCATION	BEAM NUMBER									
	1	2	3	4	5	6	7	8	9	10
C BRG. ABUT. 1	763.83	763.95	764.05	764.09	764.10	764.11	764.07	764.03	763.99	763.95
6.85	763.78	763.93	764.06	764.11	764.14	764.13	764.08	764.03	763.95	763.86
13.70	763.72	763.93	764.07	764.13	764.18	764.15	764.09	764.03	763.89	763.75
20.55	763.69	763.93	764.08	764.16	764.22	764.18	764.10	764.03	763.82	763.63
27.40	763.74	763.98	764.12	764.20	764.28	764.21	764.13	764.01	763.77	763.52
34.25	763.77	764.01	764.16	764.24	764.32	764.26	764.17	764.06	763.82	763.57
41.10	763.78	764.02	764.17	764.25	764.33	764.28	764.20	764.11	763.86	763.62
47.95	763.74	764.00	764.17	764.25	764.33	764.29	764.21	764.12	763.88	763.64
54.80	763.69	763.93	764.12	764.20	764.28	764.26	764.18	764.10	763.87	763.62
61.65	763.60	763.84	764.05	764.13	764.21	764.20	764.12	764.05	763.82	763.58
C BRG. ABUT. 2	763.47	763.73	763.93	764.02	764.11	764.11	764.04	763.95	763.75	763.51

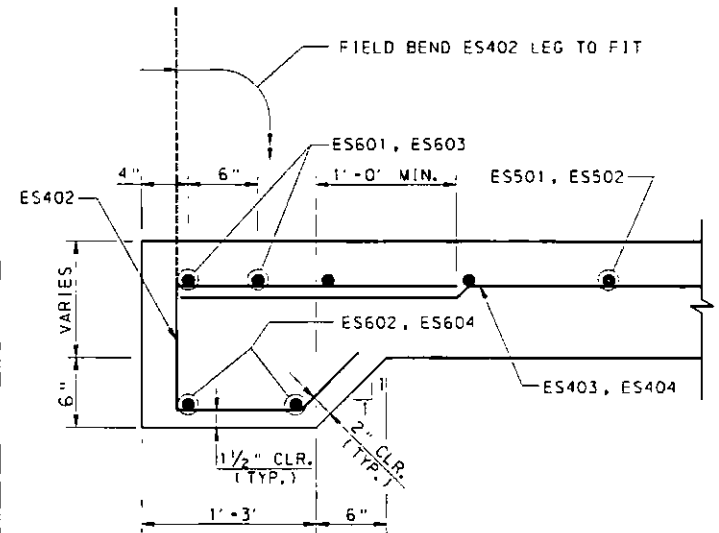
NOTE: DECK ELEVATIONS GIVEN AT THE C OF EACH BEAM. LOCATIONS GIVEN ARE THE DISTANCE (FT) ALONG THE C OF EACH BEAM TO THE 10TH POINT AS MEASURED FROM THE C OF BEARING AT ABUTMENT 1.

LOCATION	BEAM NUMBER									
	1	2	3	4	5	6	7	8	9	10
C BRG. ABUT. 1	9"	8 3/4"	8 1/8"	7"	6 1/4"	6 3/8"	6 1/2"	6 5/8"	8 5/8"	10 1/8"
6.85	8 3/8"	8 5/8"	8 1/4"	7"	6 1/2"	6 1/2"	6 3/8"	8 5/8"	9 1/8"	10 1/8"
13.70	7 5/8"	8 5/8"	8 1/2"	7 1/4"	7"	6 5/8"	7"	8 5/8"	9 1/4"	9 5/8"
20.55	7 3/8"	8 5/8"	8 5/8"	7 5/8"	7 1/2"	7"	7 1/8"	8 3/4"	8 3/8"	8 1/4"
27.40	8 1/8"	9 1/2"	9 1/4"	8 1/8"	8 1/4"	7 1/2"	7 1/2"	8 3/4"	8"	7 1/8"
34.25	8 5/8"	9 3/8"	9 3/8"	8 3/4"	8 3/8"	8 1/4"	8 1/8"	9 1/2"	8 3/4"	7 3/4"
41.10	8 5/8"	10 1/4"	10 1/4"	9 1/4"	9 3/8"	8 3/4"	8 3/8"	10 1/4"	9 1/2"	8 5/8"
47.95	8 3/4"	10 1/4"	10 1/2"	9 3/8"	9 1/2"	9 1/8"	9 1/4"	10 3/8"	9 3/8"	9 1/8"
54.80	8 3/8"	9 3/4"	10 1/4"	9 1/4"	9 3/8"	9"	9 1/4"	10 3/4"	10"	9 1/4"
61.65	7 3/4"	9"	9 3/8"	8 3/4"	8 3/8"	8 3/8"	9"	10 3/8"	9 3/8"	9 1/8"
C BRG. ABUT. 2	6 5/8"	8"	8 5/8"	8"	8 1/4"	8 1/4"	8 1/2"	9 5/8"	9 3/8"	8 5/8"

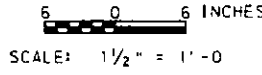
NOTE: DECK SLAB THICKNESS IS MEASURED FROM THE TOP OF DECK TO THE TOP OF BEAM. BEAM NOTCH DEPTH NOT INCLUDED AT C OF ABUT. 1 & ABUT. 2.

STATION	LT. GUTTER LINE EL. A	LT. SHLDR. BREAKLINE EL. B	P.C. LINE EL. C	RT. SHLDR. BREAKLINE EL. D	RT. GUTTER LINE EL. E
29+43.44	—	—	—	—	763.92
29+46.63	—	—	—	763.99	763.90
29+50.00	—	—	—	764.00	763.86
29+51.35	—	—	764.11	764.00	763.86
29+55.26	—	764.07	764.13	764.00	763.81
29+57.93	763.82	764.06	764.15	764.01	763.77
29+60.00	763.79	764.06	764.16	764.01	763.73
29+80.00	763.71	764.07	764.29	764.07	763.51
30+00.00	763.73	764.13	764.35	764.13	763.61
30+18.93	763.51	763.95	764.17	763.95	763.47
30+19.59	763.50	763.94	764.16	763.94	—
30+20.00	763.50	763.94	764.16	—	—
30+20.50	763.48	763.93	764.15	—	—
30+21.41	763.46	763.91	—	—	—
30+22.03	763.45	—	—	—	—

NOTE: ELEVATIONS GIVEN AT THE FIRST AND LAST STATIONS LISTED FOR EACH POINT ARE LOCATED AT THE C OF BEARINGS.



SECTION C-C



County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
DECK SLAB TYPICAL SECTION &
ELEVATION TABLE
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

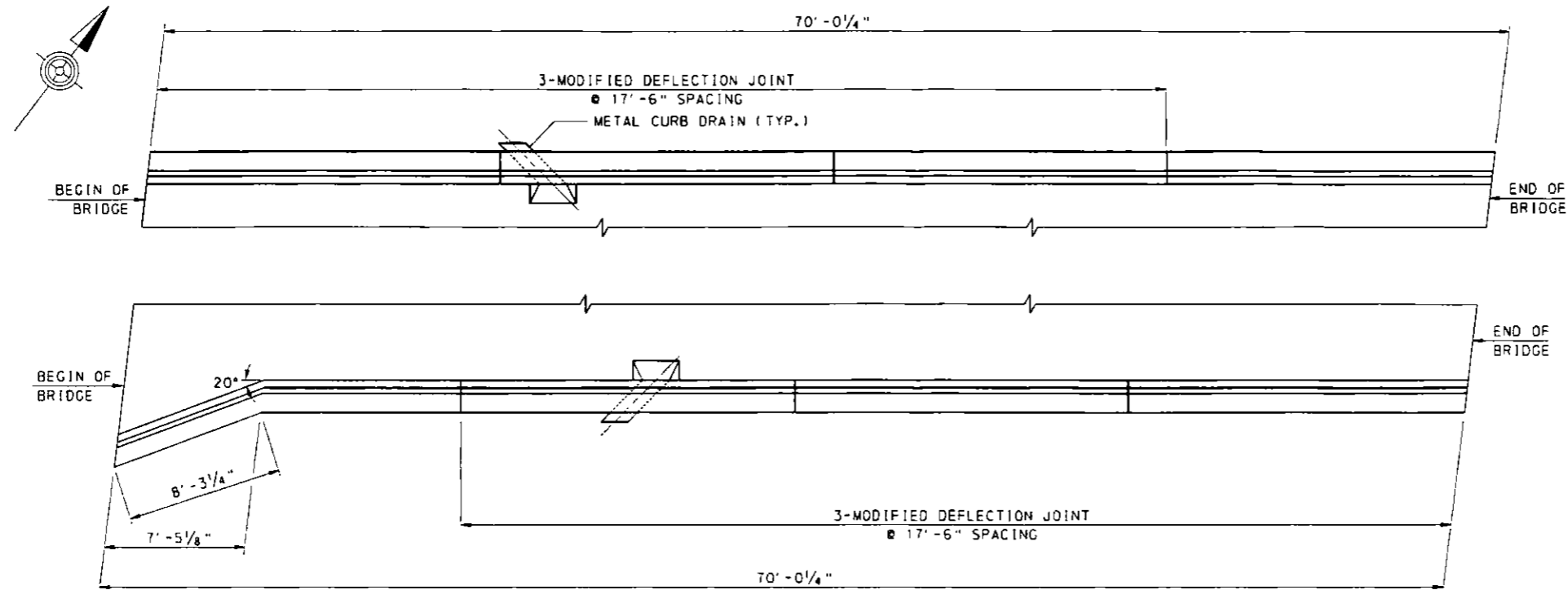


NO.	DESCRIPTION

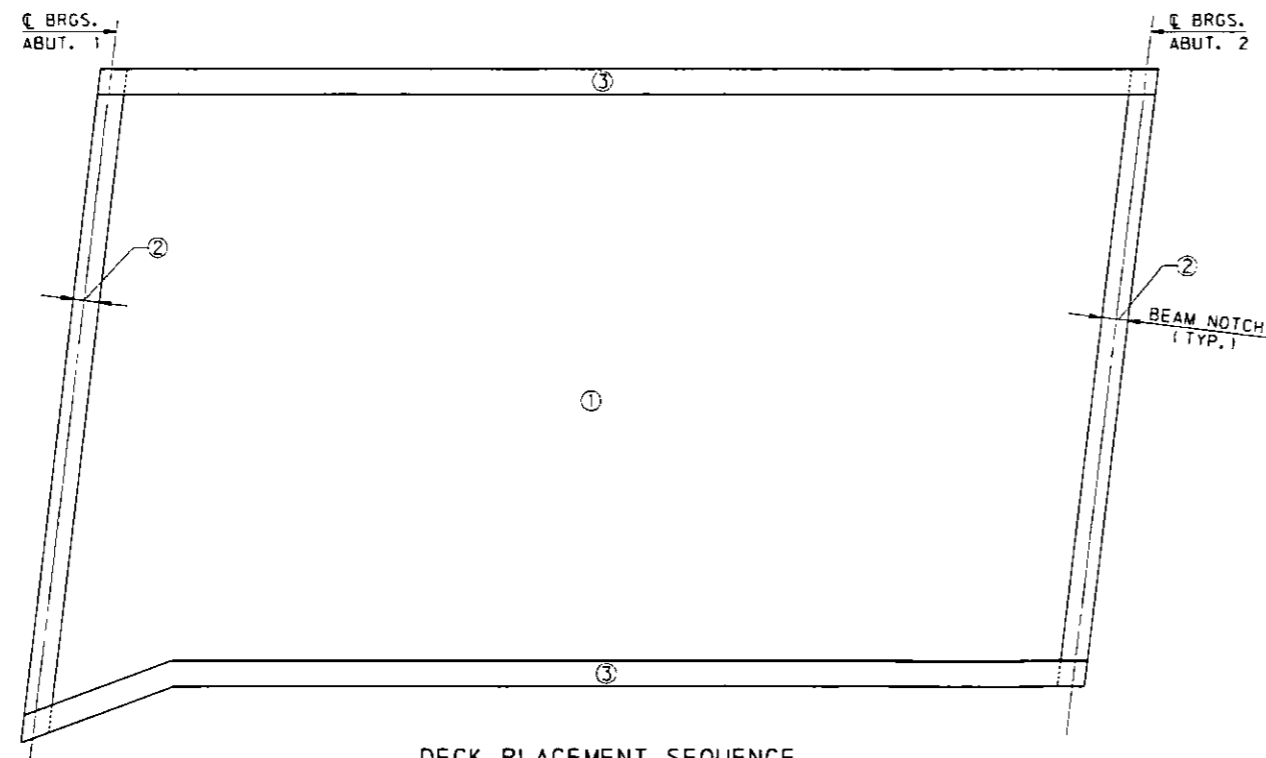
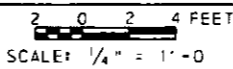
DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 35 OF 46	

3/24/2016

IF APPROX. 100% - 100% CONCRETE IS USED FOR THE ENTIRE BRIDGE, SEE PLAN PLACEMENT AND PA BARRIER PLAN, 00P



BARRIER - PLAN



DECK PLACEMENT SEQUENCE

N. T. S.

- ① PLACE DECK SLAB CONCRETE
- ② PLACE BEAM NOTCH
- ③ PLACE BARRIER CONCRETE

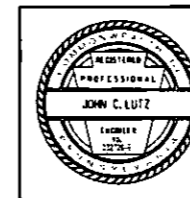
NOTES:

- 1. REFER TO PUB. 408, SECTION 1001 FOR ADDITIONAL DECK PLACEMENT INFORMATION
- 2. REFER TO BC-751M FOR ADDITIONAL METAL CURB DRAIN DETAILS.

County of Allegheny
 Pittsburgh, Pennsylvania
 Department of Public Works

CONSTRUCTION DRAWING
 EAST PENNVIEW STREET OVER PINE CREEK
 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
**DECK SLAB PLACEMENT
 AND BARRIER PLAN**
 PINE CREEK BRIDGE NO II
 STA 29+87.41 P111-0211

REVISIONS	

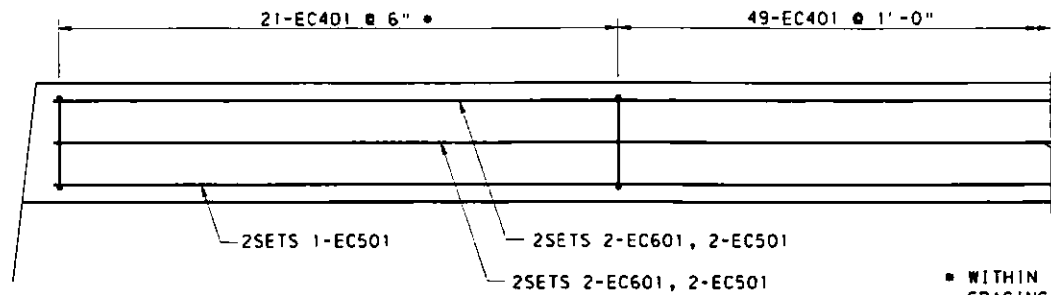


DES. MRW	DRW. ADC	CHK. JCL
DATE 12/2015	SCALE	SHEET 36 OF 46

26048

3/27/2016

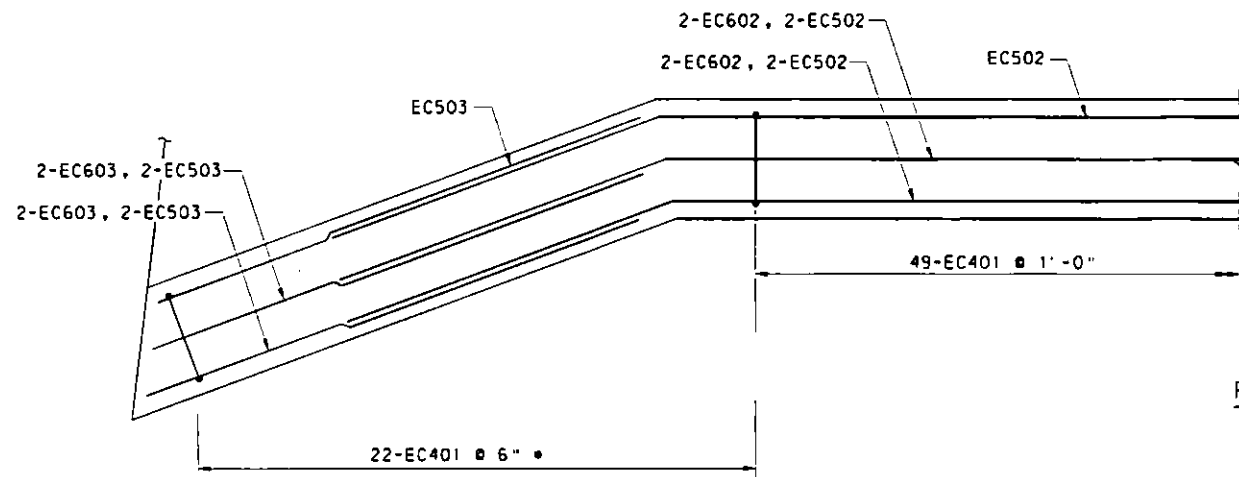
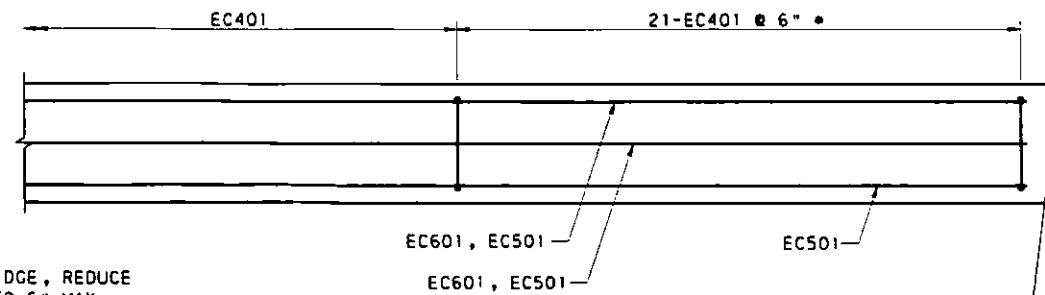
J:\PROJECTS\6051 - CONCRETE STRUCTURES\DRAWING\DESIGN\BARRIER.DWG



• WITHIN 10'-0" AT THE END OF BRIDGE, REDUCE SPACING OF REINFORCEMENT BARS TO 6" MAX

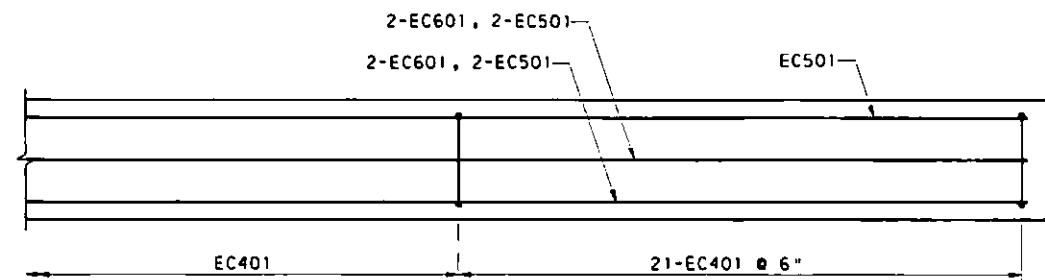
LEFT BARRIER DETAIL

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



RIGHT BARRIER DETAIL

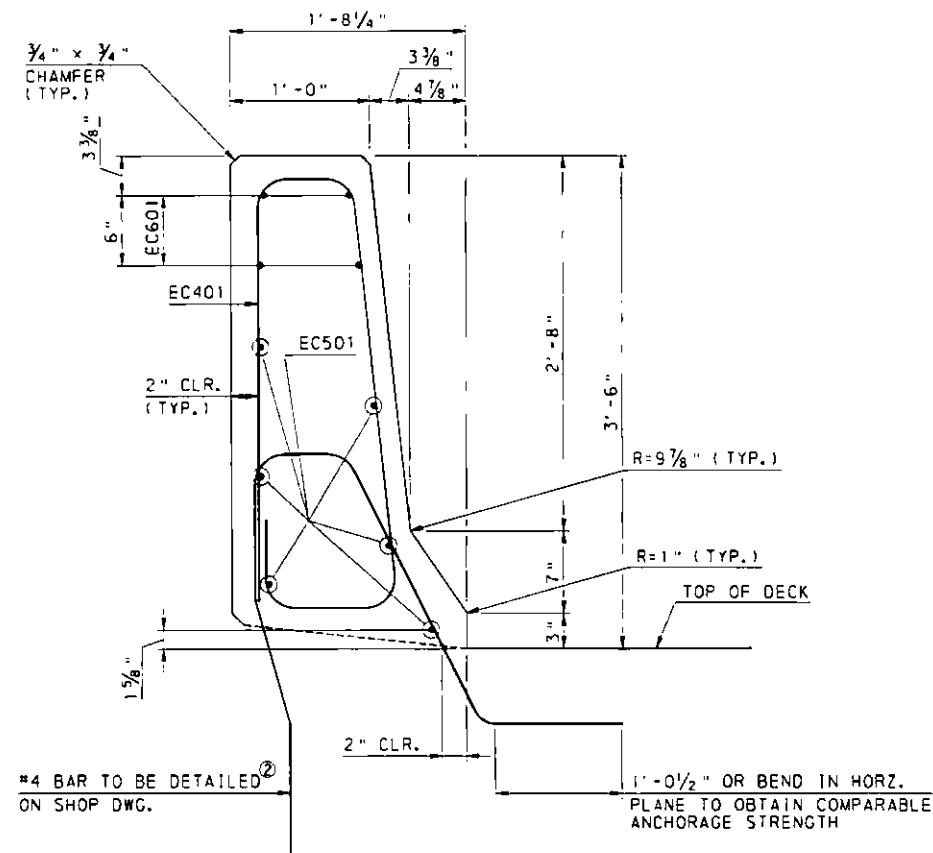
12 0 12 INCHES
SCALE: 3/4" = 1'-0



BAR SIZE	BARRIER	MIN. BAR LAP. LENGTH
#5		3'-7"
#6		4'-4"

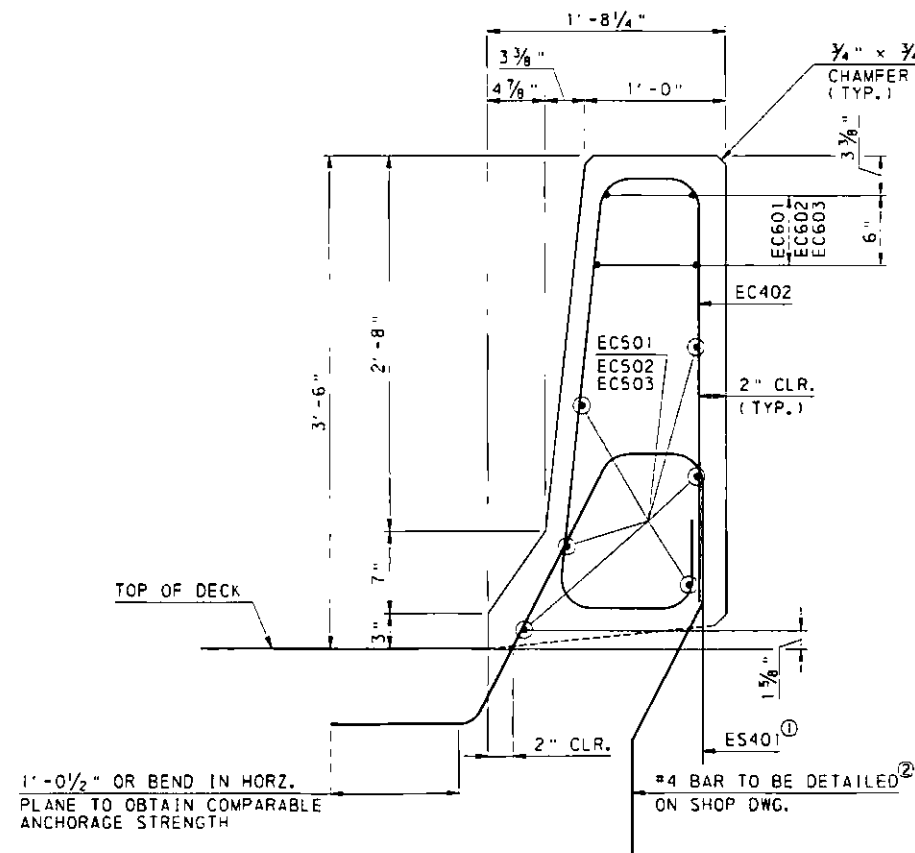
NOTES:

1. WITHIN 10'-0" AT THE END OF BRIDGE, REDUCE SPACING OF REINFORCEMENT BARS TO 6" MAX.
2. RE-ESTABLISH EPOXY COATING ON ENDS OF REINFORCEMENT CUT AROUND CURB DRAIN PER PUB. 408, SECTION 1002.3(g).
3. CUT BARRIER LONGITUDINAL REINFORCEMENT AS TO MAINTAIN 2" COVER TO CONCRETE END SURFACES OR DECK DRAIN.
4. FOR DECK DRAIN LOCATION, SEE SHEET 36.



LEFT DECK BARRIER REINFORCING

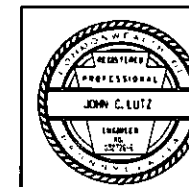
6 0 6 INCHES
SCALE: 1 1/2" = 1'-0



RIGHT DECK BARRIER REINFORCING

6 0 6 INCHES
SCALE: 1 1/2" = 1'-0

- ① - ES401 ORIGINATE IN DECK.
- ② - BARS ORIGINATE IN FASCIA BEAMS.



REVISIONS			

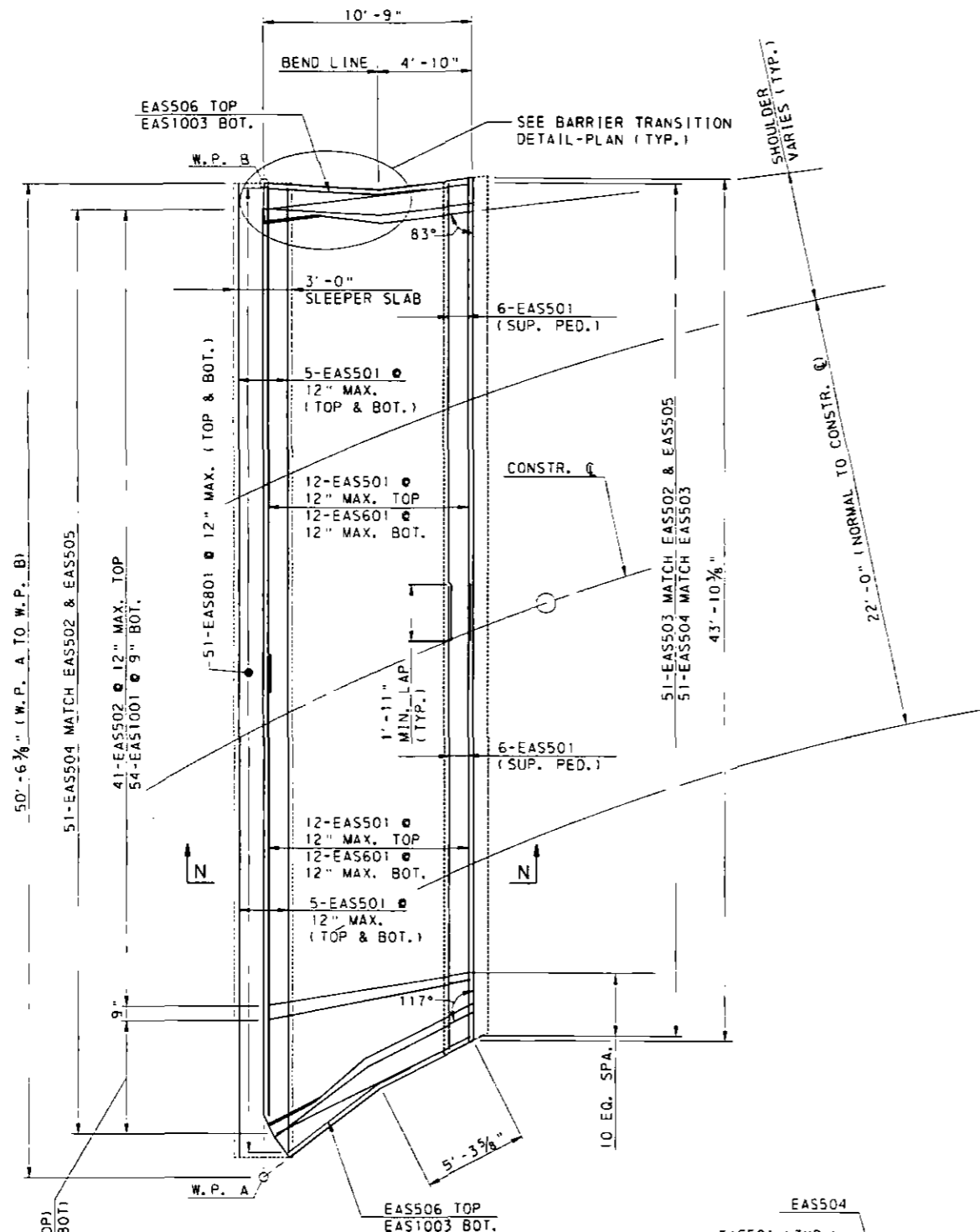
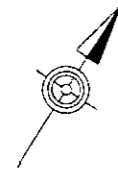
County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
BARRIER DETAILS
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

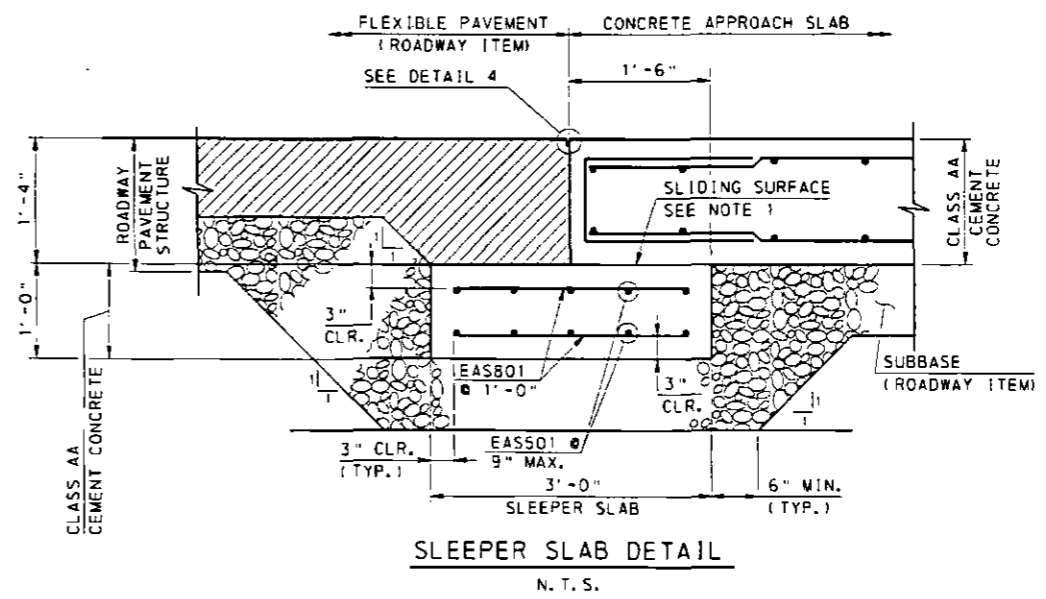
DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 37 OF 46	

3/23/2016

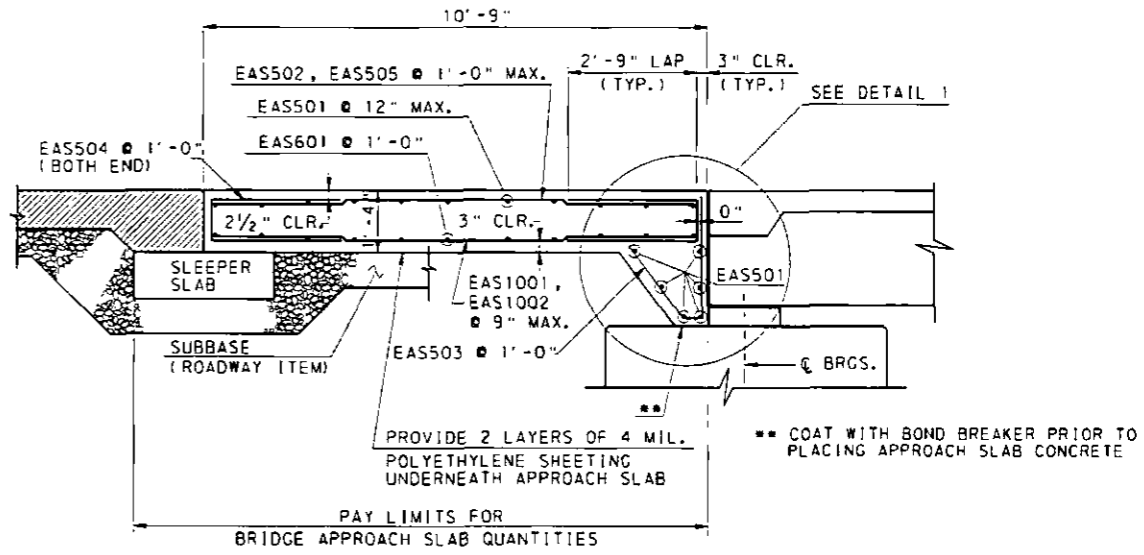
45 NPROJN16051 - DRW CAD/INS/PLT/CHECK FOR QNT/IML - DESTINY INC/CHIEF - SHT 3B - APPR - SLAB ABUT 1 - 007



MODIFIED APPROACH SLAB PLAN
 SCALE: 1/4" = 1'-0"

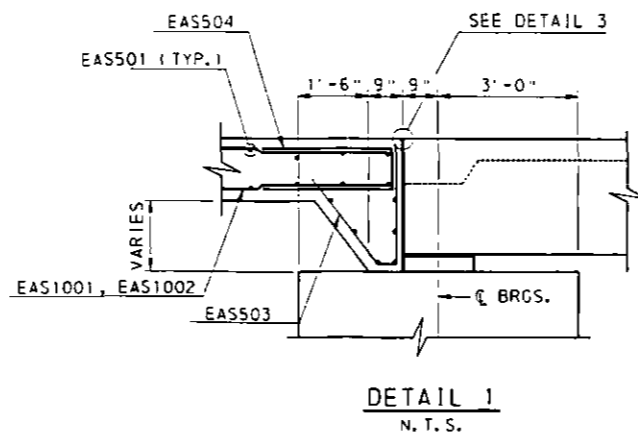


SLEEPER SLAB DETAIL
 N. T. S.



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

- NOTES:**
1. FOR GENERAL NOTES, SEE SHEET 2.
 2. FOR BARRIER TRANSITION DETAIL PLAN AND BARRIER DETAILS, SEE SHEET 40.
 3. FORM APPROACH SLAB TO MATCH FOOTPRINT OF BARRIER ABOVE.
 4. FOR DETAILS 3 & 4 SEE SHEET 40.
 5. FOR REINFORCEMENT BAR SCHEDULE, SEE SHEET 41.
 6. FOR ELEVATIONS, SEE SHEET 40.



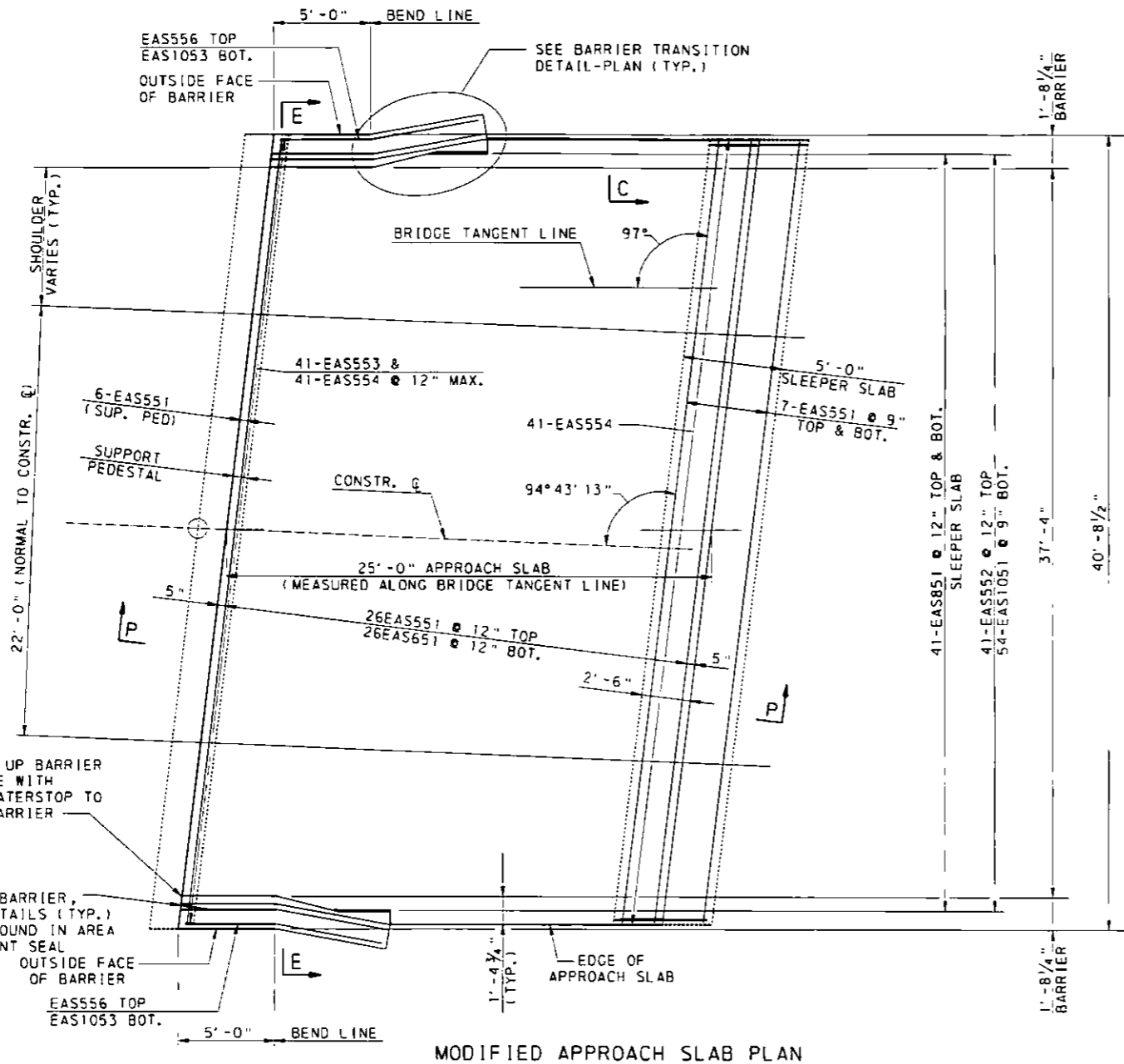
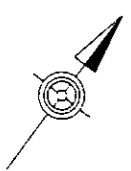
DETAIL 1
 N. T. S.



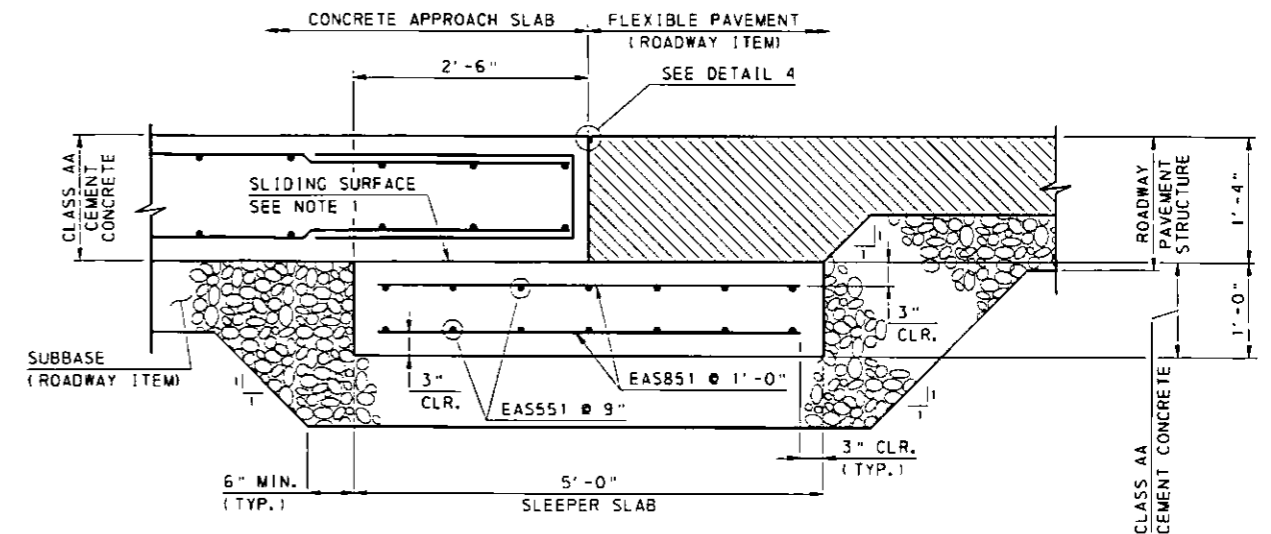
County of Allegheny
 Pittsburgh, Pennsylvania
 Department of Public Works

CONSTRUCTION DRAWING
 EAST PENNVIEW STREET OVER PINE CREEK
 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
 APPROACH SLAB - ABUT 1
 PINE CREEK BRIDGE NO II
 STA 29+87.41 P111-0211

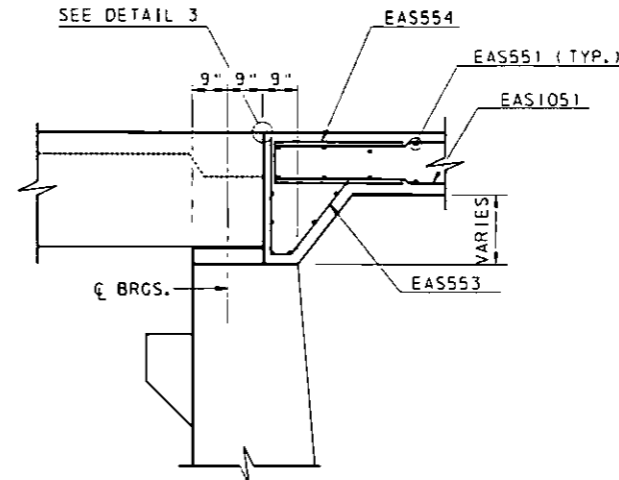
DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 3B OF 46	



MODIFIED APPROACH SLAB PLAN
SCALE: 1/4" = 1'-0"

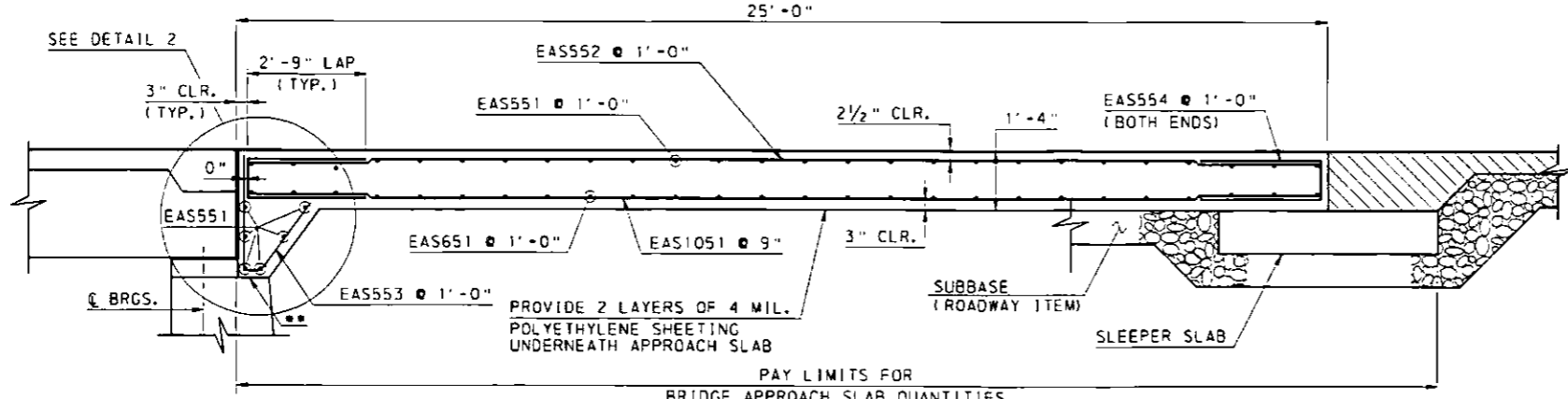


SLEEPER SLAB DETAIL
N.T.S.



DETAIL 2
N.T.S.

- NOTES:**
1. FOR GENERAL NOTES, SEE SHEET 2.
 2. FOR BARRIER TRANSITION DETAIL PLAN AND BARRIER DETAILS, SEE SHEET 40.
 3. FORM APPROACH SLAB TO MATCH FOOTPRINT OF BARRIER ABOVE.
 4. FOR DETAILS 3 & 4, SEE SHEET 40.
 5. FOR REINFORCEMENT BAR SCHEDULE, SEE SHEET 41.
 6. FOR ELEVATIONS, SEE SHEET 40.



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

•• COAT WITH BOND BREAKER PRIOR TO PLACING APPROACH SLAB CONCRETE

County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
APPROACH SLAB - ABUT 2
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

REVISIONS	



DES. MRM	DRW. ADC	CHK. JCL
DATE 12/2015	SCALE	SHEET 39 OF 46

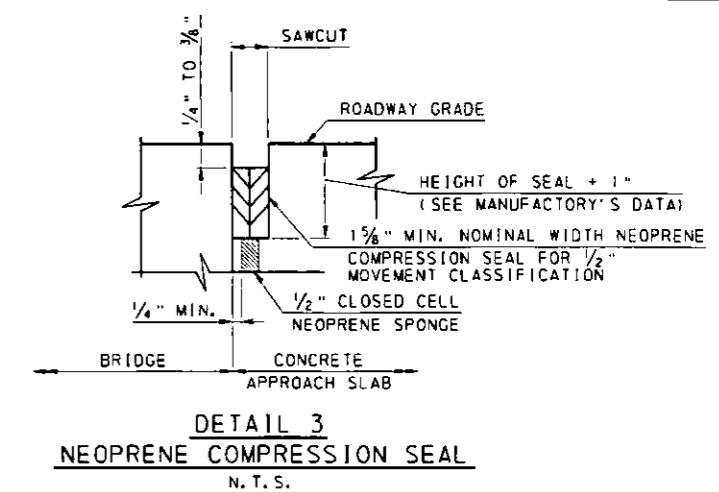
26048

1/24/2016

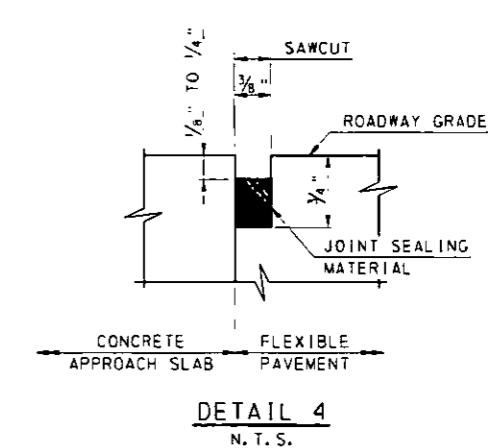
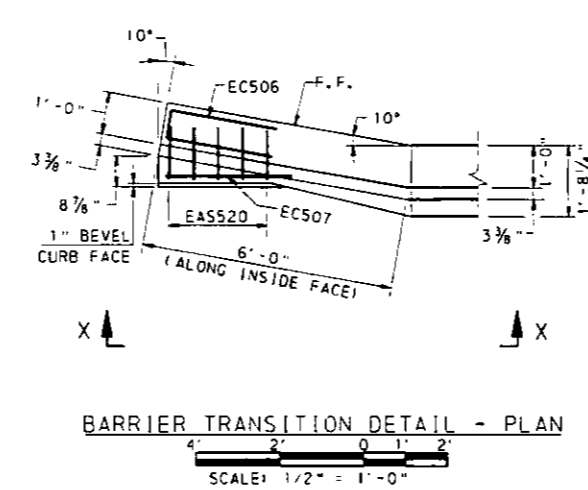
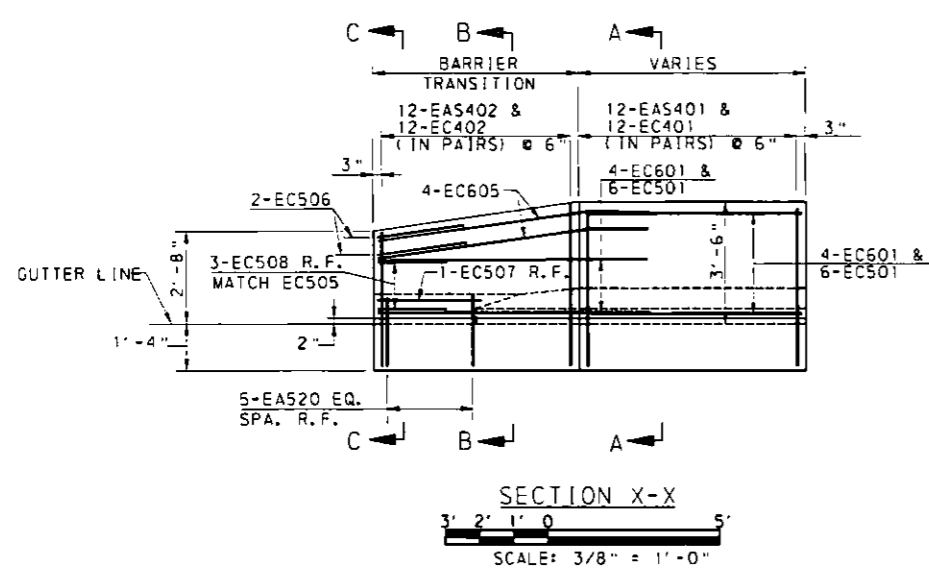
J:\PHOTO\1-00\CAD\AS\TRUCK\CONSTR. DETAIL 140 APPROACH 11 ADI DETAILS.dgn

ABUTMENT 1 APPROACH SLAB ELEVATIONS LOOKING AHEAD STATIONS					
STATION	PT. A	PT. B	PT. C	PT. D	PT. E
29+28.16	---	---	---	---	764.02
29+32.52	---	---	---	764.06	764.02
29+38.75	---	---	764.10	764.07	763.96
29+42.38	---	---	764.10	764.04	763.93
29+43.86	---	764.18	764.10	764.02	---
29+45.74	---	764.19	764.10	764.00	---
29+48.60	764.25	764.20	764.10	---	---
29+50.55	764.14	764.20	764.10	---	---
29+54.53	763.95	764.09	---	---	---
29+57.29	763.84	---	---	---	---

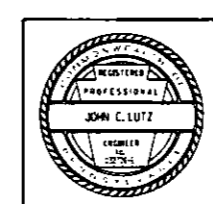
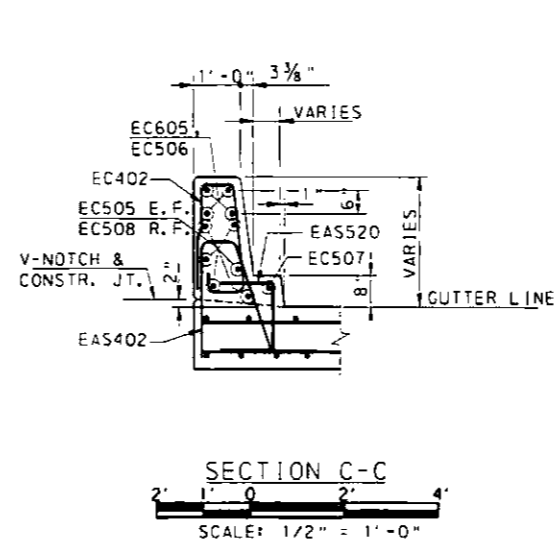
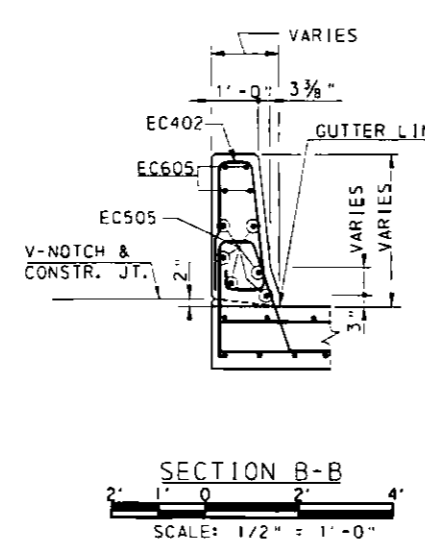
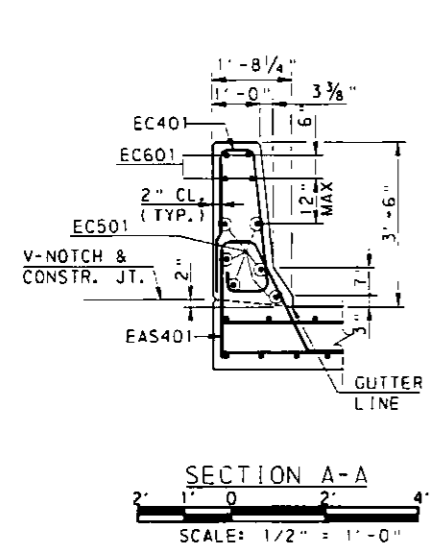
ABUTMENT 2 APPROACH SLAB ELEVATIONS LOOKING AHEAD STATIONS					
STATION	PT. A	PT. B	PT. C	PT. D	PT. E
30+19.71	---	---	---	---	763.48
30+20.00	---	---	---	---	763.48
30+20.34	---	---	---	763.93	763.47
30+21.25	---	---	764.14	763.92	763.46
30+22.16	---	763.90	764.12	763.90	763.43
30+22.77	763.44	763.89	764.11	763.89	763.41
30+30.00	763.21	763.74	763.96	763.74	763.21
30+40.00	763.03	763.48	763.70	763.48	762.99
30+44.85	762.92	763.33	763.55	763.33	762.97
30+45.34	762.92	763.31	763.53	763.31	---
30+46.25	762.90	763.28	763.50	---	---
30+47.16	762.88	763.25	---	---	---
30+47.66	762.87	---	---	---	---



NOTE:
1. TROWEL SMOOTH AND PLACE TWO LAYERS OF 4 MIL. POLYETHYLENE SHEETING AS BOND BREAKER.



NOTES:
1. FOR GENERAL NOTES, SEE SHEET 2.
2. FOR APPROACH SLAB PLANS, SEE SHEETS 38 & 39.
3. FOR REINFORCEMENT BAR SCHEDULE, SEE SHEET 41.
3. FOR SLAB ELEVATION POINT LOCATIONS, SEE SHEET 35.



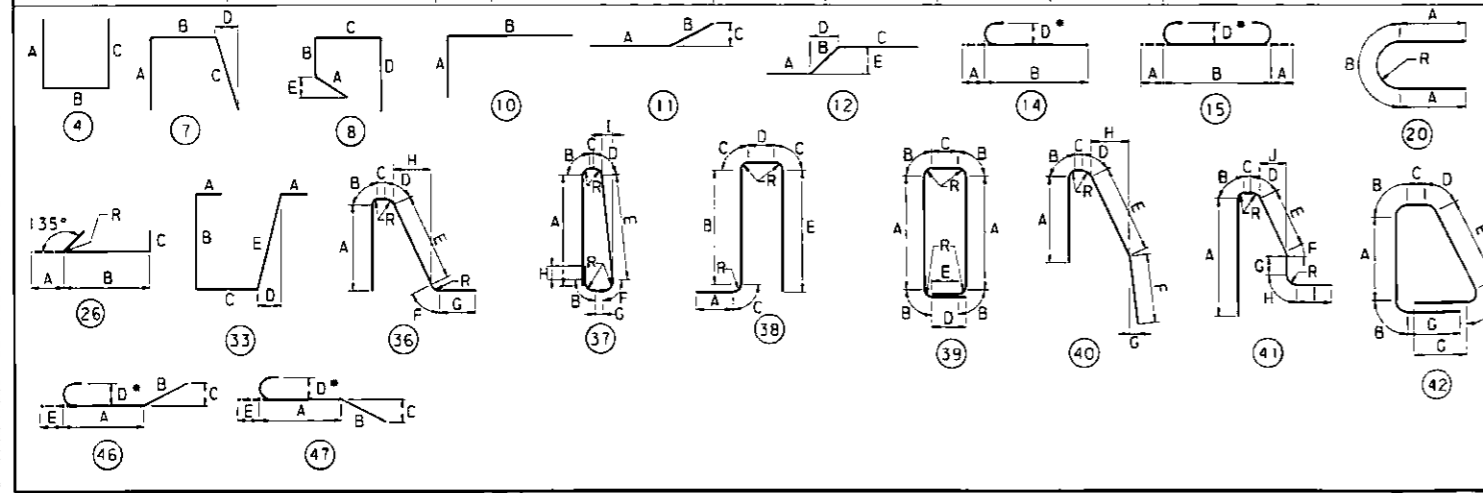
REVISIONS		County of Allegheny Pittsburgh, Pennsylvania Department of Public Works	
		CONSTRUCTION DRAWING EAST PENNVIEW STREET OVER PINE CREEK 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE APPROACH SLAB DETAILS PINE CREEK BRIDGE NO II STA 29+87.41 P111-0211	
DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 40 OF 46	

5/24/2016

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MARK	SIZE	NUMBER	LENGTH	TYPE	A	B	C	D	E	R	REMARKS
DECK SLAB REINFORCING BAR SCHEDULE											
ES401	4	16	5'-9 1/2"	36	1'-9"	0'-4"	0'-4"	0'-2 3/4"	1'-11"	2"	F=2 3/4", G=1'-0" (BEND G 20 DEGREES), H=10" FIELD BEND D FROM C
ES402	4	87	4'-0"	8	0'-7"	1'-0"	2'-5"	VARIES	0'-5"		
ES403	4	42	40'-0"	STR							
ES404	4	42	32'-0"	STR							
ES405	4	4	2'-4" TO 6'-4"	STR							1 EA VARY BY 1'-4"
ES406	4	1	10'-6"	11	8'-0"	2'-6"	10 1/4"				
ES407	4	14	6'-6"	14	0'-6"	6'-0"		4"			
ES408	4	14	5'-0"	STR							
ES501	5	93	41'-10"	15	0'-7"	40'-8"		5"			
ES502	5	12	42'-1 1/4" TO 44'-2"	15	0'-7"	40'-11 1/4" TO 43'-0"		5"			1 EA B VARY BY 2 1/4"
ES504	5	4	10'-0"	STR							
ES601	6	2	42'-0"	15	8"	40'-8"		6"			
ES602	6	2	40'-8"	STR							
ES603	6	2	44'-6"	15	8"	43'-2"		6"			
ES604	6	2	43'-0"	STR							
EC401	4	183	8'-0 1/8"	37	2'-9 1/2"	4"	3 3/8"	3 3/8"	2'-7 3/4"	2"	F=4 1/8", G=6 3/4" H=5", I=3 3/8"
EC501	5	15	36'-8"	STR							
EC502	5	5	34'-3"	11	30'-0"	4'-3"	1'-5 1/2"				
EC503	5	5	7'-6"	STR							
EC601	6	15	37'-0"	STR							
EC602	6	5	35'-6"	11	30'-6"	5'-0"	1'-8 1/2"				
EC603	6	5	7'-6"	STR							
ABUTMENT 1 APPROACH SLAB REINFORCING BAR SCHEDULE											
EAS401	4	12	6'-10"	36	2'-3"	4"	4"	2 3/4"	2'-5 1/2"	2"	F=2 3/4", G=1'-0", H=1'-1"
EAS402	4	12	6'-9 3/4" TO 6'-7"	36	2'-3"	4"	4"	2 3/4"	2'-5 1/4" TO 2'-2 1/2"	2	F=2 3/4", G=1'-0", VARY H=1'-1 1/2" TO 4 1/4"
EAS501	5	56	25'-6"	STR							
EAS502	5	41	10'-5"	STR							
EAS503	5	51	6'-0"	7	3'-0"	3	2'-9"	1'-3"			
EAS504	5	102	6'-4 1/2"	4	2'-9"	10 1/2"	2'-9"				1 EA VARY BY 1 1/2"
EAS505	5	10	10'-5" TO 11'-6 1/2"	STR							
EAS506	5	2	10'-4"	11	5'-8 1/2"	4'-7 1/2"	9 3/8"				
EAS520	5	10	3'-9"	4	1'-1 1/2"	1'-6"	1'-1 1/2"				
EAS601	6	24	25'-6"	STR							
EAS801	8	102	2'-6"	STR							
EAS1001	10	54	10'-5"	STR							
EAS1002	10	10	10'-5" TO 11'-6 1/2"	STR							1 EA VARY BY 1 1/2"
EAS1003	10	2	10'-4"	11	5'-8 1/2"	4'-7 1/2"	9 3/8"				

MARK	SIZE	NUMBER	LENGTH	TYPE	A	B	C	D	E	R	REMARKS
ABUTMENT 1 APPROACH SLAB REINFORCING BAR SCHEDULE (CONTINUED)											
EC401	4	12	8'-0 1/8"	37	2'-9 1/2"	4"	3 3/8"	3 3/8"	2'-7 3/4"	2"	F=4 1/8", G=6 3/4", H=5", I=3 3/8"
EC402	4	12	6'-1 3/4" TO 7'-11 3/4"	37	2'-9 1/2"	4"	3 3/8"	3 3/8"	2'-7 3/4" TO 1'-8 3/4"	2"	F=4 1/8", G=6 3/8", H=5", I=3 3/8" 2 EA VARY A & E BY 1"
EC501	5	12	4'-7"	STR							
EC505	5	12	7'-6"	11	1'-9"	5'-9"	1'-0"				
EC506	5	4	6'-0"	4	2'-8"	0'-8"	2'-8"				
EC507	5	2	3'-0"	STR							
EC508	5	6	2'-0"	STR							
EC601	6	8	4'-7"	STR							
EC605	6	8	7'-6"	11	1'-9"	5'-9"	1'-0"				
ABUTMENT 2 APPROACH SLAB REINFORCING BAR SCHEDULE											
EAS401	4	12	6'-10"	36	2'-3"	4"	4"	2 3/4"	2'-5 1/2"	2"	F=2 3/4", G=1'-0", H=1'-1"
EAS402	4	12	6'-9 3/4" TO 6'-7"	36	2'-3"	4"	4"	2 3/4"	2'-5 1/4" TO 2'-2 1/2"	2	F=2 3/4", G=1'-0", VARY H=1'-1 1/2" TO 4 1/4"
EAS520	5	10	3'-9"	4	1'-1 1/2"	1'-6"	1'-1 1/2"				
EAS551	5	46	40'-1"	STR							
EAS552	5	41	24'-7"	STR							
EAS553	5	41	6'-0"	7	3'-0"	3	2'-9"	1'-3"			
EAS554	5	82	6'-4 1/2"	4	2'-9"	10 1/2"	2'-9"				
EAS556	5	2	10'-4"	11	5'-8 1/2"	4'-7 1/2"	9 3/8"				
EAS651	6	26	25'-6"	STR							
EAS851	8	82	4'-6"	STR							
EAS1051	10	54	24'-7"	STR							
EAS1053	10	2	10'-4"	11	5'-8 1/2"	4'-7 1/2"	9 3/8"				
EC401	4	12	8'-0 1/8"	37	2'-9 1/2"	4"	3 3/8"	3 3/8"	2'-7 3/4"	2"	F=4 1/8", G=6 3/4", H=5", I=3 3/8"
EC402	4	12	6'-1 3/4" TO 7'-11 3/4"	37	2'-9 1/2"	4"	3 3/8"	3 3/8"	2'-7 3/4" TO 1'-8 3/4"	2"	F=4 1/8", G=6 3/8", H=5", I=3 3/8" 2 EA VARY A & E BY 1"
EC501	5	12	4'-7"	STR							
EC505	5	12	7'-6"	11	1'-9"	5'-9"	1'-0"				
EC506	5	4	6'-0"	4	2'-8"	0'-8"	2'-8"				
EC507	5	2	3'-0"	STR							
EC508	5	6	2'-0"	STR							
EC601	6	8	4'-7"	STR							
EC605	6	8	7'-6"	11	1'-9"	5'-9"	1'-0"				



- "•" DIMENSION ON 180° HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
- FOR REINFORCEMENT BAR FABRICATION DETAILS, REFER TO STANDARD DRAWING BC-736M.
- FIGURES IN CIRCLES SHOW TYPES.
- "E" - INDICATES EPOXY COATED REBARS.
- FOR ALL BAR TYPES SHOWN, DIMENSIONS A-H AND LENGTH ARE MEASURED ALONG OUTSIDE OF BAR. R IS MEASURED ALONG INSIDE OF BAR.

County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
EAST PENNVIEW STREET OVER PINE CREEK
1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
DECK & APPROACH SLAB
REBAR SCHEDULES
PINE CREEK BRIDGE NO II
STA 29+87.41 P111-0211

DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 41 OF 46	

3/24/2016

J:\PROJECTS\16051-1605\DRAWINGS\16051-1605\DESIGN\ENGINEER\SH142-RATING-TABLE.dgn

LEFT FASCIA BEAM		P/S ADJACENT BOX BEAM 48/24					
SIMPLE SPAN		H20	HS20	ML-80	PHL-93	P-82	TK527
INVENTORY	DISTRIBUTION FACTOR	0.330	0.330	0.330	0.587	N/A	0.330
RATING	LOCATION (ft)	34.25	34.25	34.25	13.70	N/A	34.25
(IR)	LIMIT STATE	SERV-III	SERV-III	SERV-III	STR-1	N/A	SERV-III
	RATING FACTOR	1.96M	1.41M	1.20M	1.24V	N/A	1.24M
OPERATING	DISTRIBUTION FACTOR	0.587	0.587	0.587	0.587	0.587	0.587
RATING	LOCATION (ft)	13.70	13.70	13.70	13.70	6.85	13.70
(OR)	LIMIT STATE	STR-II	STR-II	STR-II	STR-1A	STR-II	STR-II
	RATING FACTOR	2.76V	2.00V	1.79V	1.61V	1.07V	1.77V
MAXIMUM MOMENT CAPACITY (kip-ft)		2496.8					
LOCATION (ft)		34.25					
MAXIMUM SHEAR CAPACITY (kips)		281.65					
LOCATION (ft)		61.65					

NOTE: ALL RATINGS ARE BASED ON THE INCLUSION OF THE DESIGN FUTURE WEARING SURFACE.

FIRST & SECOND INTERIOR BEAM		P/S ADJACENT BOX BEAM 48/24					
SIMPLE SPAN		H20	HS20	ML-80	PHL-93	P-82	TK527
INVENTORY	DISTRIBUTION FACTOR	0.330	0.330	0.330	0.330	N/A	0.330
RATING	LOCATION (ft)	34.25	34.25	34.25	34.25	N/A	34.25
(IR)	LIMIT STATE	SERV-III	SERV-III	SERV-III	SERV-III	N/A	SERV-III
	RATING FACTOR	1.79M	1.29M	1.10M	1.18M	N/A	1.13M
OPERATING	DISTRIBUTION FACTOR	0.512	0.512	0.512	0.512	0.512	0.512
RATING	LOCATION (ft)	13.70	13.70	13.70	13.70	6.85	13.70
(OR)	LIMIT STATE	STR-II	STR-II	STR-II	STR-1A	STR-II	STR-II
	RATING FACTOR	3.07V	2.22V	1.99V	1.79V	1.20V	1.97V
MAXIMUM MOMENT CAPACITY (kip-ft)		2492.7					
LOCATION (ft)		34.25					
MAXIMUM SHEAR CAPACITY (kips)		287.10					
LOCATION (ft)		61.65					

NOTE: ALL RATINGS ARE BASED ON THE INCLUSION OF THE DESIGN FUTURE WEARING SURFACE.

FIRST & SECOND INTERIOR BEAM		P/S ADJACENT BOX BEAM 48/24					
SIMPLE SPAN		H20	HS20	ML-80	PHL-93	P-82	TK527
INVENTORY	DISTRIBUTION FACTOR	0.330	0.330	0.330	0.330	N/A	0.330
RATING	LOCATION (ft)	34.25	34.25	34.25	34.25	N/A	34.25
(IR)	LIMIT STATE	SERV-III	SERV-III	SERV-III	SERV-III	N/A	SERV-III
	RATING FACTOR	2.03M	1.46M	1.25M	1.34M	N/A	1.28M
OPERATING	DISTRIBUTION FACTOR	0.512	0.512	0.512	0.512	0.512	0.512
RATING	LOCATION (ft)	13.70	13.70	13.70	13.70	6.85	13.70
(OR)	LIMIT STATE	STR-II	STR-II	STR-II	STR-1A	STR-II	STR-II
	RATING FACTOR	3.20V	2.31V	2.07V	1.86V	1.25V	2.05V
MAXIMUM MOMENT CAPACITY (kip-ft)		2492.7					
LOCATION (ft)		34.25					
MAXIMUM SHEAR CAPACITY (kips)		289.45					
LOCATION (ft)		61.65					

NOTE: ALL RATINGS ARE BASED ON THE EXCLUSION OF THE DESIGN FUTURE WEARING SURFACE.

RIGHT FASCIA BEAM		P/S ADJACENT BOX BEAM 48/24					
SIMPLE SPAN		H20	HS20	ML-80	PHL-93	P-82	TK527
INVENTORY	DISTRIBUTION FACTOR	0.330	0.330	0.330	0.330	N/A	0.330
RATING	LOCATION (ft)	34.25	34.25	34.25	34.25	N/A	34.25
(IR)	LIMIT STATE	SERV-III	SERV-III	SERV-III	SERV-III	N/A	SERV-III
	RATING FACTOR	1.84M	1.32M	1.13M	1.21M	N/A	1.16M
OPERATING	DISTRIBUTION FACTOR	0.587	0.587	0.587	0.587	0.587	0.587
RATING	LOCATION (ft)	13.7	13.7	13.7	13.7	13.7	13.7
(OR)	LIMIT STATE	STR-II	STR-II	STR-II	STR-1A	STR-II	STR-II
	RATING FACTOR	2.69V	1.95V	1.75V	1.57V	1.04V	1.73V
MAXIMUM MOMENT CAPACITY (kip-ft)		2517.2					
LOCATION (ft)		34.25					
MAXIMUM SHEAR CAPACITY (kips)		280.54					
LOCATION (ft)		61.65					

NOTE: ALL RATINGS ARE BASED ON THE INCLUSION OF THE DESIGN FUTURE WEARING SURFACE.

INTERIOR BEAM		P/S ADJACENT BOX BEAM 48/24					
SIMPLE SPAN		H20	HS20	ML-80	PHL-93	P-82	TK527
INVENTORY	DISTRIBUTION FACTOR	0.330	0.330	0.330	0.512	N/A	0.330
RATING	LOCATION (ft)	34.25	34.25	34.25	13.70	N/A	34.25
(IR)	LIMIT STATE	SERV-III	SERV-III	SERV-III	STR-1	N/A	SERV-III
	RATING FACTOR	2.43M	1.74M	1.49M	1.50V	N/A	1.54M
OPERATING	DISTRIBUTION FACTOR	0.512	0.512	0.512	0.512	0.512	0.512
RATING	LOCATION (ft)	13.70	13.70	13.70	13.70	13.70	13.70
(OR)	LIMIT STATE	STR-II	STR-II	STR-II	STR-1A	STR-II	STR-II
	RATING FACTOR	3.34V	2.41V	2.16V	1.94V	1.31V	2.14V
MAXIMUM MOMENT CAPACITY (kip-ft)		2492.7					
LOCATION (ft)		34.25					
MAXIMUM SHEAR CAPACITY (kips)		291.64					
LOCATION (ft)		61.65					

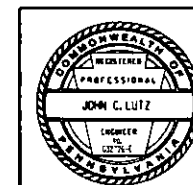
NOTE: ALL RATINGS ARE BASED ON THE INCLUSION OF THE DESIGN FUTURE WEARING SURFACE.

NOTES:

GIVEN DISTRIBUTION FACTOR IS THE VEHICULAR LIVE LOAD DISTRIBUTION FACTOR USED TO PRODUCE THE GIVEN RATING. FOR THE STR-1P LIMIT STATE, THE VEHICULAR LIVE LOAD DISTRIBUTION FACTOR ACCOUNTS FOR THE PRESENCE OF PEDESTRIAN LOADS, IF APPLICABLE.

SYMBOL DESIGNATION FOR RATING FACTORS:

- M - MOMENT RATING FACTOR CONTROLS
- V - SHEAR RATING FACTOR CONTROLS
- C - COMBINED SHEAR/FLEXURE INTERACTION RATING FACTOR CONTROLS



County of Allegheny Pittsburgh, Pennsylvania Department of Public Works			
CONSTRUCTION DRAWING EAST PENNVIEW STREET OVER PINE CREEK 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE RATING TABLES PINE CREEK BRIDGE NO II STA 29+87.41 P111-0211			
DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 42 OF 46	

REVISIONS

3/24/2016 10:45 AM PROJECT: SHEAR AND MOMENT - INTERIOR BEAM DESIGN FOR CONC ADJ BOX BEAM BRIDGE

UNFACTORED MAXIMUM MOMENTS AND SHEARS - LEFT FASCIA BEAM					
LOADING	MOMENT		SHEAR		REACTION @ C.BRG. (kips)
	MAXIMUM MOMENT (kip-ft)	LOCATION (ft)	MAXIMUM SHEAR (kips)	LOCATION (ft)	
NON-COMPOSITE DEAD LOAD	631.6	34.25	36.78	0.00	36.78
COMPOSITE DEAD LOAD (INCLUDING FUTURE WEARING SURFACE)	206.5	34.25	12.06	0.00	12.06
PEDESTRIAN LIVE LOAD	0.00	0.00	0.00	0.00	0.00
PHL-93 LIVE LOAD PLUS IMPACT	556.8	34.25	60.34	0.00	60.34
P-82 LIVE LOAD PLUS IMPACT	705.1	34.25	95.26	0.00	95.26

UNFACTORED MAXIMUM MOMENTS AND SHEARS - FIRST & SECOND INTERIOR BEAMS					
LOADING	MOMENT		SHEAR		REACTION @ C.BRG. (kips)
	MAXIMUM MOMENT (kip-ft)	LOCATION (ft)	MAXIMUM SHEAR (kips)	LOCATION (ft)	
NON-COMPOSITE DEAD LOAD	665.10	34.25	38.74	0.00	38.74
COMPOSITE DEAD LOAD (INCLUDING FUTURE WEARING SURFACE)	206.50	34.25	12.06	0.00	12.06
PEDESTRIAN LIVE LOAD	0.00	0.00	0.00	0.00	0.00
PHL-93 LIVE LOAD PLUS IMPACT	556.70	34.25	52.62	0.00	52.62
P-82 LIVE LOAD PLUS IMPACT	705.00	34.25	83.06	0.00	83.06

UNFACTORED MAXIMUM MOMENTS AND SHEARS - INTERIOR BEAM					
LOADING	MOMENT		SHEAR		REACTION @ C.BRG. (kips)
	MAXIMUM MOMENT (kip-ft)	LOCATION (ft)	MAXIMUM SHEAR (kips)	LOCATION (ft)	
NON-COMPOSITE DEAD LOAD	638.70	34.25	37.20	0.00	37.20
COMPOSITE DEAD LOAD (INCLUDING FUTURE WEARING SURFACE)	65.70	34.25	3.84	0.00	3.84
PEDESTRIAN LIVE LOAD	0.00	0.00	0.00	0.00	0.00
PHL-93 LIVE LOAD PLUS IMPACT	556.70	34.25	52.62	0.00	52.62
P-82 LIVE LOAD PLUS IMPACT	705.00	34.25	83.06	0.00	83.06

UNFACTORED MAXIMUM MOMENTS AND SHEARS - RIGHT FASCIA BEAM					
LOADING	MOMENT		SHEAR		REACTION @ C.BRG. (kips)
	MAXIMUM MOMENT (kip-ft)	LOCATION (ft)	MAXIMUM SHEAR (kips)	LOCATION (ft)	
NON-COMPOSITE DEAD LOAD	661.90	34.25	39.38	0.00	39.38
COMPOSITE DEAD LOAD (INCLUDING FUTURE WEARING SURFACE)	193.3	34.25	11.49	0.00	11.49
PEDESTRIAN LIVE LOAD	0.00	0.00	0.00	0.00	0.00
PHL-93 LIVE LOAD PLUS IMPACT	566.8	34.25	60.34	0.00	60.34
P-82 LIVE LOAD PLUS IMPACT	705.1	34.25	95.26	0.00	95.26

NOTES:
 UNFACTORED MAXIMUM MOMENTS, SHEARS, AND REACTIONS INCLUDE THE APPROPRIATE APPLIED DISTRIBUTION FACTOR.

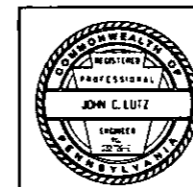
PRESTRESSED CONCRETE BEAM SECTION PROPERTIES ADJACENT BOX BEAM @ CENTERLINE SPAN		
NON-COMPOSITE	GROSS SECTION	TRANSFORMED SECTION
AREA OF BASIC BEAM, in ²	587.20	0.00
MOMENT OF INERTIA, in ⁴	42292	0.00
NEUTRAL AXIS TO TOP OF BEAM, in	13.52	0.00
NEUTRAL AXIS TO BOTTOM OF BEAM, in	10.48	0.00
SECTION MODULUS AT TOP OF BEAM, in ³	3127	0.00
SECTION MODULUS AT BOTTOM OF BEAM, in ³	4037	0.00

PRESTRESSED CONCRETE BEAM SECTION PROPERTIES ADJACENT BOX BEAM @ CENTERLINE SPAN -- LEFT FASCIA BEAM		
COMPOSITE	GROSS SECTION	TRANSFORMED SECTION
MOMENT OF INERTIA, in ⁴	77000	79549
NEUTRAL AXIS TO TOP OF SLAB, in	14.87	15.25
NEUTRAL AXIS TO TOP OF BEAM, in	9.87	10.25
NEUTRAL AXIS TO BOTTOM OF BEAM, in	14.13	13.75
SECTION MODULUS AT TOP OF SLAB, in ³	5177	5217
SECTION MODULUS AT TOP OF BEAM, in ³	7799	7762
SECTION MODULUS AT BOTTOM OF BEAM, in ³	5451	5785

PRESTRESSED CONCRETE BEAM SECTION PROPERTIES ADJACENT BOX BEAM @ CENTERLINE SPAN -- RIGHT FASCIA BEAM		
COMPOSITE	GROSS SECTION	TRANSFORMED SECTION
MOMENT OF INERTIA, in ⁴	78355	80988
NEUTRAL AXIS TO TOP OF SLAB, in	14.73	15.11
NEUTRAL AXIS TO TOP OF BEAM, in	9.73	10.11
NEUTRAL AXIS TO BOTTOM OF BEAM, in	14.27	13.89
SECTION MODULUS AT TOP OF SLAB, in ³	5319	5361
SECTION MODULUS AT TOP OF BEAM, in ³	8052	8012
SECTION MODULUS AT BOTTOM OF BEAM, in ³	5491	5830

PRESTRESSED CONCRETE BEAM SECTION PROPERTIES ADJACENT BOX BEAM @ CENTERLINE SPAN -- FIRST & SECOND INTERIOR BEAMS		
COMPOSITE	GROSS SECTION	TRANSFORMED SECTION
MOMENT OF INERTIA, in ⁴	76725	79258
NEUTRAL AXIS TO TOP OF SLAB, in	14.90	15.28
NEUTRAL AXIS TO TOP OF BEAM, in	9.90	10.28
NEUTRAL AXIS TO BOTTOM OF BEAM, in	14.10	13.72
SECTION MODULUS AT TOP OF SLAB, in ³	5149	5188
SECTION MODULUS AT TOP OF BEAM, in ³	7749	7712
SECTION MODULUS AT BOTTOM OF BEAM, in ³	5442	5776

PRESTRESSED CONCRETE BEAM SECTION PROPERTIES ADJACENT BOX BEAM @ CENTERLINE SPAN -- INTERIOR BEAM		
COMPOSITE	GROSS SECTION	TRANSFORMED SECTION
MOMENT OF INERTIA, in ⁴	76725	79258
NEUTRAL AXIS TO TOP OF SLAB, in	14.90	15.28
NEUTRAL AXIS TO TOP OF BEAM, in	9.90	10.28
NEUTRAL AXIS TO BOTTOM OF BEAM, in	14.10	13.72
SECTION MODULUS AT TOP OF SLAB, in ³	5149	5188
SECTION MODULUS AT TOP OF BEAM, in ³	7749	7712
SECTION MODULUS AT BOTTOM OF BEAM, in ³	5442	5776



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County of Allegheny
 Pittsburgh, Pennsylvania
Department of Public Works

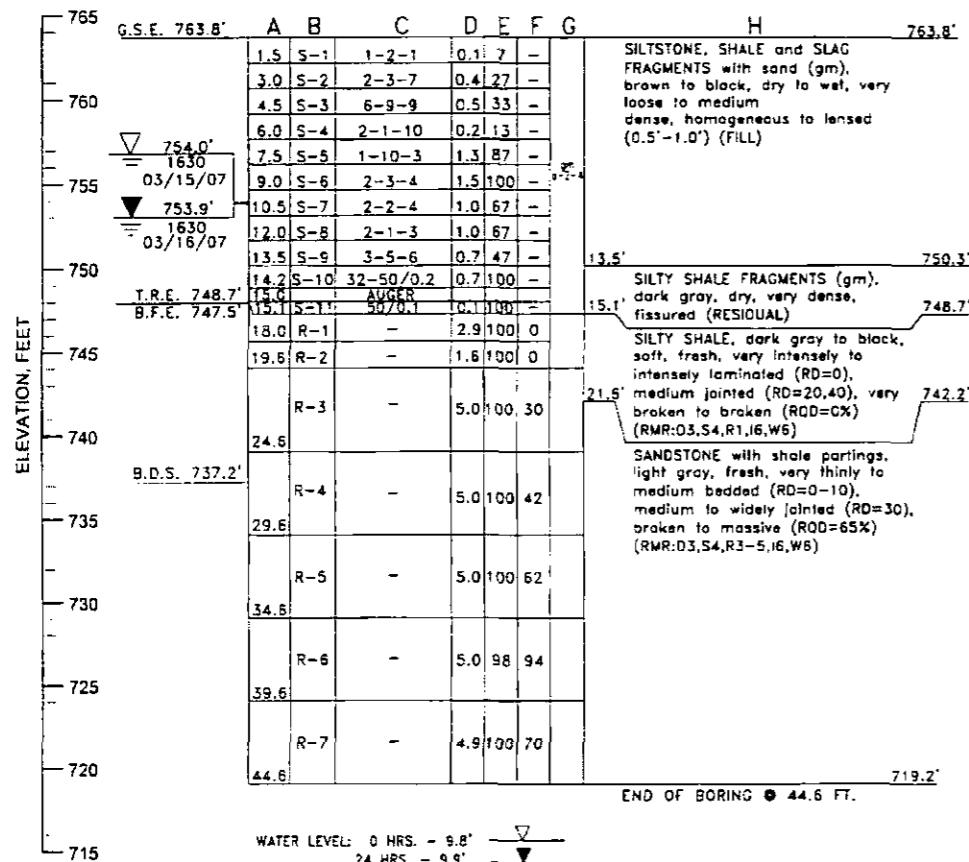
CONSTRUCTION DRAWING
 EAST PENNVIEW STREET OVER PINE CREEK
 1-SP COMP P/S CONC ADJ BOX BEAM BRIDGE
MOMENT, SHEAR & BEAM PROPERTIES
 PINE CREEK BRIDGE NO II
 STA 29+87.41 P111-0211

DES. MRM	DRW. ADC	CHK. JCL	26048
DATE 12/2015	SCALE	SHEET 43 OF 46	

STRUCTURE BORING LOG 1 ABUTMENT 1

PB-1

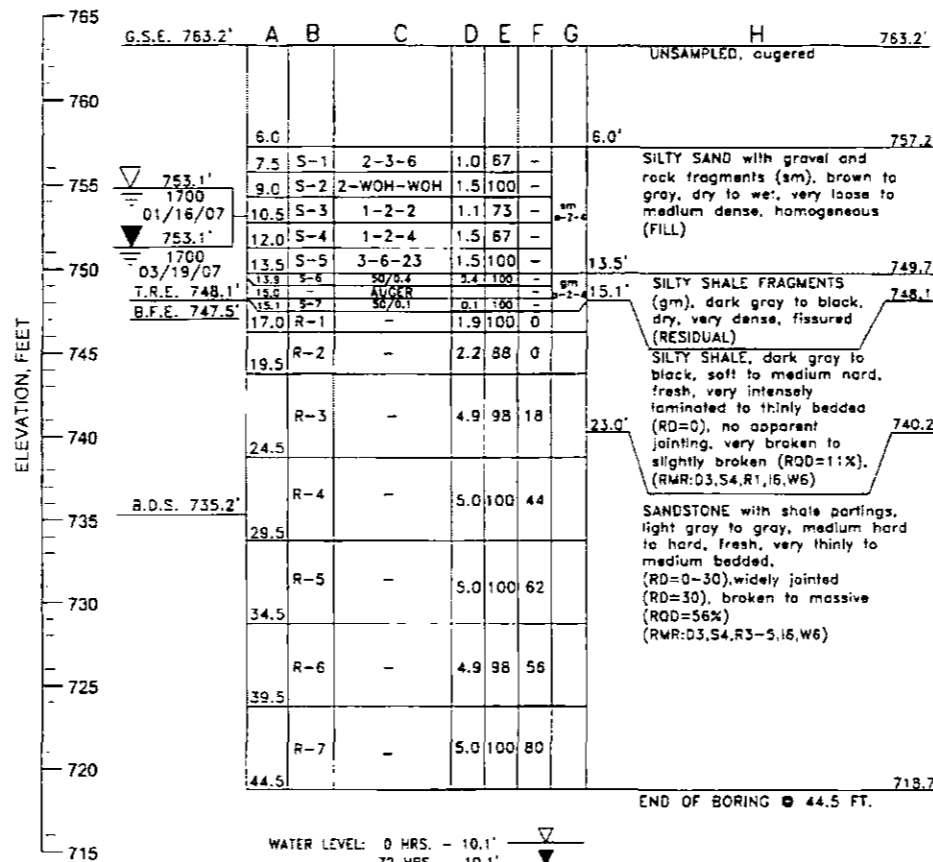
BORING PB-1
STA. 29+50, 24.0' Lt. BASELINE



WATER LEVEL: 0 HRS. - 9.8' 24 HRS. - 9.9'
 STARTED: 03/15/07 COMPLETED: 03/15/07
 DRILLER: J. SACCANI / PENN DRILL
 DRILLING METHOD: SOIL - 3 1/4 INCH ID HSA, 140 LB. SAFETY HAMMER, 30 INCH DROP.
 ROCK - NO-2 SPLIT INNER CORE BARREL WITH WATER.
 RIG TYPE: CMC - 45 TRUCK MOUNTED RIG WITH AUTOMATIC HAMMER.

PB-2

BORING PB-2
STA. 29+25, 16.0' Rt. BASELINE



WATER LEVEL: 0 HRS. - 10.1' 72 HRS. - 10.1'
 STARTED: 03/16/07 COMPLETED: 03/16/07
 DRILLER: J. SACCANI / PENN DRILL
 DRILLING METHOD: SOIL - 3 1/4 INCH ID HSA, 140 LB. SAFETY HAMMER, 30 INCH DROP.
 ROCK - NO-2 SPLIT INNER CORE BARREL WITH WATER.
 RIG TYPE: CMC - 45 TRUCK MOUNTED RIG WITH AUTOMATIC HAMMER.

GENERAL NOTES:

- THE BORING LOGS AND RELATED INFORMATION DEPICT SUBSURFACE CONDITIONS ONLY AT THE SPECIFIC LOCATIONS AND DATES INDICATED. SUBSURFACE CONDITIONS AND WATER LEVELS AT OTHER LOCATIONS MAY DIFFER FROM THE CONDITIONS REPORTED AT THE SPECIFIC LOCATIONS. ALSO, THE PASSAGE OF TIME MAY RESULT IN A CHANGE OF THE CONDITIONS AT THE BORING LOCATIONS.
- THIS SHEET IS INCLUDED FOR THE CONVENIENCE OF THE DEPARTMENT AND IS NOT PART OF THE CONTRACT DRAWINGS (SEE SECTION 102.05 OF PUB. 408).
- BORING LOCATIONS AND ELEVATIONS DETERMINED BY SURVEY.
- FOR ADDITIONAL GENERAL NOTES, LEGEND, SOIL AND ROCK DESCRIPTIONS, REFER TO PENNDOT BC-795 M.

LEGEND

- COLUMN A - SAMPLE DEPTH IN FEET.
- COLUMN B - SAMPLE NUMBER, OR CORE RUN.
- COLUMN C - NUMBER OF BLOWS PER 0.5 FOOT ON SPLIT SPOON SAMPLER FOR STANDARD PENETRATION TEST (SPT).
- COLUMN D - RECOVERY IN FEET.
- COLUMN E - PERCENT SAMPLE RECOVERY.
- COLUMN F - POCKET PENETROMETER (TSF) OR PERCENTAGE OF ROD.
- COLUMN G - UNIFIED AND AASHTO SOIL CLASSIFICATIONS.
- COLUMN H - SOIL AND ROCK DESCRIPTIONS.

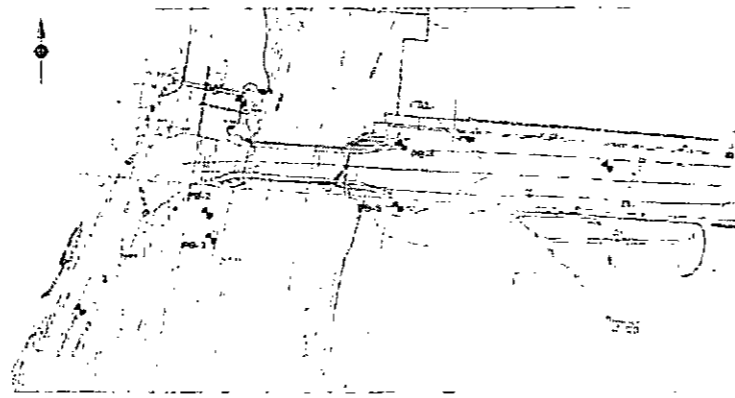
- ▽ OR ▽ ELEV. GROUNDWATER ELEVATION IN FEET HR./DATE TIME OF READING AND DATE.
- G.S.E. GROUND SURFACE ELEVATION IN FEET.
- T.R.S. PROPOSED TOP OF ROCK SOCKET ELEVATION IN FEET.
- B.D.S. PROPOSED BOTTOM OF DRILLED SHAFT ELEVATION IN FEET.
- P.T.E. PROPOSED PILE TIP ELEVATION IN FEET.
- T.R.E. TOP OF ROCK ELEVATION IN FEET.
- HSA HOLLOW STEM AUGERS.
- B.C.E. BOTTOM OF CASING ELEVATION IN FEET.
- *** AUGERED, NO SAMPLE.
- ⊙ BORING DRILLED 2007.
- B.F.E. BOTTOM OF FOOTING ELEVATION IN FEET.

THE CLASSIFICATION OF THE MATERIALS ENCOUNTERED HAS BEEN VERIFIED.

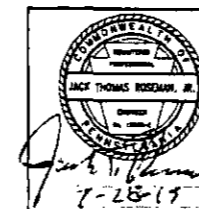
JTR
INITIAL

THE INFORMATION, AS SUBMITTED TO THE BEST OF MY KNOWLEDGE, ACCURATELY REPRESENTS THE CONDITIONS ENCOUNTERED BY THE TEST BORING PROGRAM, INCLUDING BORING LOGS, EARTH SAMPLES, ROCK CORES, CLASSIFICATION OF MATERIALS, AND DEPTH OF BORINGS.

[Signature] 7/28/15
SOILS ENGINEER/GEOLOGIST DATE



PLAN
SCALE: 1" = 10'



Mark	Description	By	Chk'd	Recm'd	Date
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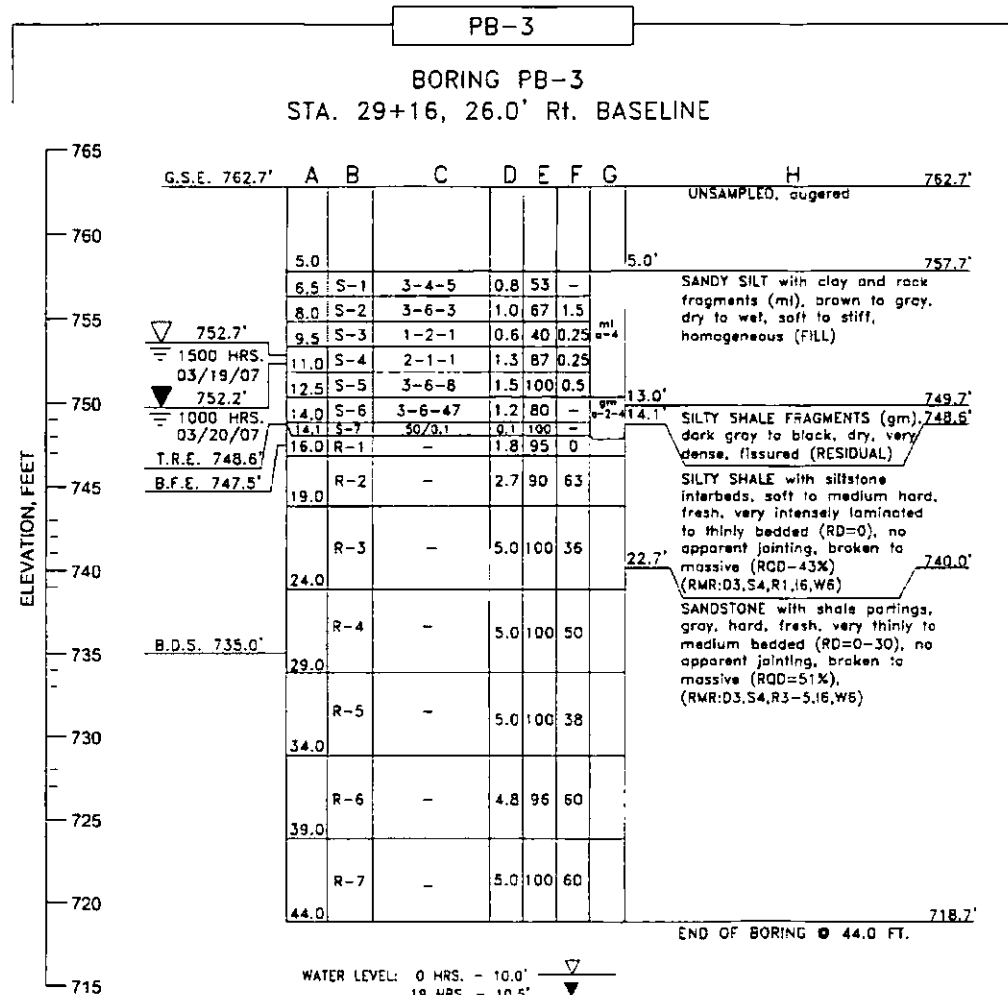
REVISIONS

County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWINGS
STRUCTURE BORINGS - 1
PINE CREEK BRIDGE
No. 11
ALLEGHENY COUNTY, PENNSYLVANIA

DR BY: CSR	TR. BY:	CH. BY: JTR	26048
DATE: SEPT. 10, 2007	SCALE: AS SHOWN	SHEET: 44 OF 46	

Wingwall "B"



WATER LEVEL: 0 HRS. - 10.0'
19 HRS. - 10.5'
STARTED: 03/15/07 COMPLETED: 03/19/07
DRILLER: J. SACCANI / PENN DRILL
DRILLING METHOD: SOIL - 3 1/4 INCH ID HSA, 140 LB. SAFETY HAMMER, 30 INCH DROP.
ROCK - NO-2 SPLIT INNER CORE BARREL WITH WATER.
RIG TYPE: CME - 45 TRUCK MOUNTED RIG WITH AUTOMATIC HAMMER.

THE CLASSIFICATION OF THE MATERIALS ENCOUNTERED HAS BEEN VERIFIED.

JTR
INITIAL

THE INFORMATION, AS SUBMITTED TO THE BEST OF MY KNOWLEDGE, ACCURATELY REPRESENTS THE CONDITIONS ENCOUNTERED BY THE TEST BORING PROGRAM, INCLUDING BORING LOGS, EARTH SAMPLES, ROCK CORES, CLASSIFICATION OF MATERIALS, AND DEPTH OF BORINGS.

SOILS ENGINEER/GEOLGIST DATE 7/28/15

GENERAL NOTES:

- THE BORING LOGS AND RELATED INFORMATION DEPICT SUBSURFACE CONDITIONS ONLY AT THE SPECIFIC LOCATIONS AND DATES INDICATED. SUBSURFACE CONDITIONS AND WATER LEVELS AT OTHER LOCATIONS MAY DIFFER FROM THE CONDITIONS REPORTED AT THE SPECIFIC LOCATIONS. ALSO, THE PASSAGE OF TIME MAY RESULT IN A CHANGE OF THE CONDITIONS AT THE BORING LOCATIONS.
- THIS SHEET IS INCLUDED FOR THE CONVENIENCE OF THE DEPARTMENT AND IS NOT PART OF THE CONTRACT DRAWINGS (SEE SECTION 102.05 OF PUB. 408).
- BORING LOCATIONS AND ELEVATIONS DETERMINED BY SURVEY.
- FOR ADDITIONAL GENERAL NOTES, LEGEND, SOIL AND ROCK DESCRIPTIONS, REFER TO PENNDOT BC-795 M.

LEGEND

- COLUMN A - SAMPLE DEPTH IN FEET.
- COLUMN B - SAMPLE NUMBER, OR CORE RUN.
- COLUMN C - NUMBER OF BLOWS PER 0.5 FOOT ON SPLIT SPOON SAMPLER FOR STANDARD PENETRATION TEST (SPT).
- COLUMN D - RECOVERY IN FEET.
- COLUMN E - PERCENT SAMPLE RECOVERY.
- COLUMN F - POCKET PENETROMETER (TSF) OR PERCENTAGE OF RQD.
- COLUMN G - UNIFIED AND AASHTO SOIL CLASSIFICATIONS.
- COLUMN H - SOIL AND ROCK DESCRIPTIONS.

- OR ELEV. GROUNDWATER ELEVATION IN FEET
- HR./DATE TIME OF READING AND DATE.
- G.S.E. GROUND SURFACE ELEVATION IN FEET.
- T.R.S. PROPOSED TOP OF ROCK SOCKET ELEVATION IN FEET.
- B.D.S. PROPOSED BOTTOM OF DRILLED SHAFT ELEVATION IN FEET.
- P.T.E. PROPOSED PILE TIP ELEVATION IN FEET.
- T.R.E. TOP OF ROCK ELEVATION IN FEET.
- HSA HOLLOW STEM AUGERS.
- B.C.E. BOTTOM OF CASING ELEVATION IN FEET.
- *** AUGERED, NO SAMPLE.
- BORING DRILLED 2007.
- B.F.E. BOTTOM OF FOOTING ELEVATION IN FEET.

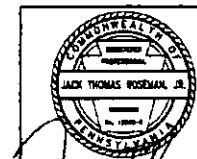


PLAN
SCALE: N.T.S.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWINGS
STRUCTURE BORINGS - 2
PINE CREEK BRIDGE
No. 11
ALLEGHENY COUNTY, PENNSYLVANIA



CR. BY CDR	TR. BY	CH. BY JTP	26048
DATE SEPT 10 2007	SCALE AS SHOWN	SHEET 45 OF 46	

STRUCTURE BORING LOG 3 ABUTMENT 2

PB-4

BORING PB-4
STA. 30+39, 15.0' Lt. BASELINE

ELEVATION, FEET	G.S.E. 763.2'							H	763.2'
	A	B	C	D	E	F	G		
765	1.5	S-1	2-6-4	0.6	40	-	-	SILTY SANDSTONE, BRICK and SLAG FRAGMENTS (gm), brown, moist, very loose to medium dense, homogeneous (FILL)	
760	3.0	S-2	2-8-6	0.9	60	-	-		
	4.5	S-3	3-1-2	0.7	47	-	-		
	6.0	S-4	1-1-1	0.9	60	-	-		
	7.5	S-5	1-1-2	0.8	53	-	-		
755	9.0	S-6	1-1-2	1.4	93	-	-	SILTY GRAVEL (gm), brown, wet, very loose, homogeneous (ALLUVIAL)	755.2'
	10.5	S-7	1-2-1	0.9	80	-	-		
	12.0	S-8	1-1-4	0.8	53	-	-	SILTY SAND with gravel (sm), brown to gray, moist to wet, very loose to medium dense, homogeneous (ALLUVIAL)	
	13.5	S-9	4-5-4	1.1	73	-	-		
750	15.0	S-10	3-4-8	0.4	27	-	-		745.7'
	16.5	S-11	3-3-6	1.4	93	-	-		
745	18.0	S-12	8-14-50/0.3	1.0	75	-	-	SILTY SHALE FRAGMENTS and SILT (gm), dark gray, moist, very dense, fissured (RESIDUAL)	743.5'
	18.4	S-13	50/0.4	0.2	58	-	-		
	19.5	S-14	50/0.4	0.2	58	-	-		
	21.7	R-1	4-4-50/0.3	1.8	100	90	-	Medium grained SANDSTONE with shale partings, dark gray to black, medium hard to hard, fresh, very thin to medium bedded (RD=0-10), closely to medium jointed (RD=30-90), broken to massive (RD=80 %), (RMR:03,54,R3-5,16,W6)	
740	24.7	R-2	-	2.9	97	30	-		
735	29.7	R-3	-	4.8	62	62	-		
730	34.7	R-4	-	5.0	100	100	-		
725	39.7	R-5	-	5.0	100	92	-		
720	44.7	R-6	-	4.8	96	96	-		
715	49.7	R-7	-	4.8	96	96	-	SILTY SHALE, black, soft to medium hard, fresh, intensely laminated to thinly bedded (RD=0), no apparent jointing, broken to massive (RD=92%)	715.9'
710								END OF BORING @ 49.7 FT.	713.5'

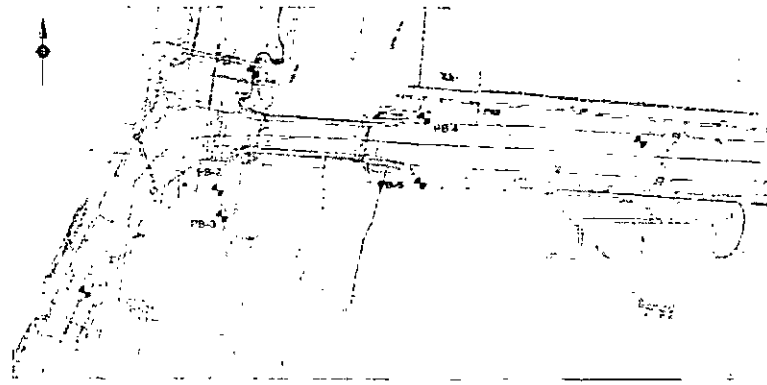
WATER LEVEL: 0 HRS. - 8.0'
20 HRS. - 8.7'
STARTED: 01/17/07 COMPLETED: 01/17/07
DRILLER: JIM LONG / PENN DRILL
DRILLING METHOD: SOIL - 3 1/4 INCH ID HSA, 140 LB. SAFETY HAMMER, 30 INCH DROP.
ROCK - NQ-2 SPLIT INNER CORE BARREL WITH WATER.
RIG TYPE: CME-45 TRUCK MOUNTED RIG WITH AUTOMATIC HAMMER.

THE CLASSIFICATION OF THE MATERIALS ENCOUNTERED HAS BEEN VERIFIED.

JTR
INITIAL

THE INFORMATION, AS SUBMITTED TO THE BEST OF MY KNOWLEDGE, ACCURATELY REPRESENTS THE CONDITIONS ENCOUNTERED BY THE TEST BORING PROGRAM, INCLUDING BORING LOGS, EARTH SAMPLES, ROCK CORES, CLASSIFICATION OF MATERIALS, AND DEPTH OF BORINGS.

Joseph J. Thomas 7-28-15
SOILS ENGINEER/GEOLOGIST DATE



PLAN
SCALE N.T.S.

PB-5

BORING PB-5
STA. 30+22, 33.0' Rt. BASELINE

ELEVATION, FEET	G.S.E. 758.2'							H	758.2'
	A	B	C	D	E	F	G		
765	1.5	S-1	2-13-8	0.9	60	-	-	TOPSOIL/ORGANICS	757.2'
	3.0	S-2	2-3-2	0.3	20	-	-	SILTY SLAG and ROCK FRAGMENTS (gm), black to brown, moist, loose, homogeneous (Fill)	755.2'
760	4.5	S-3	4-4-4	0.8	55	-	-		
	6.0	S-4	2-2-2	0.3	20	-	-	SANDY CLAY (CL), brown, moist, soft to medium stiff.	
	7.5	S-5	2-1-2	1.4	93	-	-	7.5' homogeneous (ALLUVIAL)	750.7'
755	9.0	S-6	1-1-2	1.5	100	-	-	SILTY SAND with gravel (SM), gray, moist to wet, very loose to loose, homogeneous	
750	10.5	S-7	1-1-2	0.7	47	-	-		
	12.0	S-8	1-3-3	1.0	67	-	-	12.0' (ALLUVIAL)	746.2'
	13.5	S-9	1-3-3	1.2	80	-	-	SILTY CLAY with sand, (CL-ML), gray moist to wet, medium to very stiff, homogeneous (ALLUVIAL)	
	15.0	S-10	2-3-5	1.3	87	-	-		
	16.5	S-11	3-8-15	1.2	80	-	-		
	18.1	S-12	50/0.2	0.2	78	-	-	17.0' SHALE FRAGMENTS (gm), gray, dry to moist, very dense, fissured (RESIDUAL)	741.2'
	18.5	S-13	50/0.2	0.2	78	-	-		
	20.1	S-14	15-50/0.1	0.6	108	-	-		
740	21.5	R-1	-	1.4	100	100	-	SANDSTONE with clay partings, gray, medium hard to hard, fresh, thin to thickly bedded (RD=0-10), no apparent jointing, broken to massive (RD=84%) (RMR:03,55,R3-5,11,W6)	738.1'
735	24.5	R-2	-	3.0	100	80	-		
730	29.5	R-3	-	5.0	100	76	-		
725	34.5	R-4	-	5.0	100	99	-		
720	39.5	R-5	-	5.0	100	88	-		
715	44.5	R-6	-	5.0	100	86	-		
710	49.5	R-7	-	5.0	100	92	-	46.5' SILTY SHALE, black, medium hard, fresh, intensely laminated to medium bedded (RD=0), no apparent jointing, broken to massive (RD=87%)	711.7'
705								END OF BORING @ 49.5 FT.	708.7'

WATER LEVEL: 0 HRS. - 9.0'
21 HRS. - 6.2'
STARTED: 01/16/07 COMPLETED: 01/16/07
DRILLER: JIM LONG / PENN DRILL
DRILLING METHOD: SOIL - 3 1/4 INCH ID HSA, 140 LB. SAFETY HAMMER, 30 INCH DROP.
ROCK - NQ-2 SPLIT INNER CORE BARREL WITH WATER.
RIG TYPE: CME-45 TRUCK MOUNTED RIG WITH AUTOMATIC HAMMER.

GENERAL NOTES:

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LEGEND

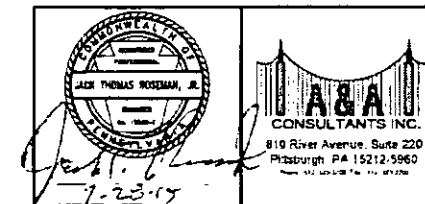
- COLUMN A - SAMPLE DEPTH IN FEET.
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- HR./DATE TIME OF READING AND DATE.
- G.S.E. GROUND SURFACE ELEVATION IN FEET.
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- T.R.E. TOP OF ROCK ELEVATION IN FEET.
- HSA HOLLOW STEM AUGERS.
- B.C.E. BOTTOM OF CASING ELEVATION IN FEET.
- *** AUGERED, NO SAMPLE.
- BORING DRILLED 2007.
- B.F.E. BOTTOM OF FOOTING ELEVATION IN FEET.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWINGS
STRUCTURE BORINGS - 3
PINE CREEK BRIDGE
No. 11
ALLEGHENY COUNTY, PENNSYLVANIA



DR BY: CDR	TR BY:	CR BY: JIS	26048
DATE: JAN 2007	SCALE: AS SHOWN	SHEET: 46 OF 46	

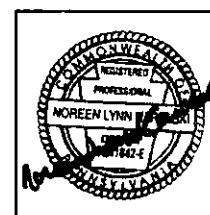
ALLEGHENY COUNTY EAST PENNVIEW STREET

CROSS SECTIONS

STA 28 + 38.00 TO STA. 30 + 54.00
TOTAL SHEETS 7

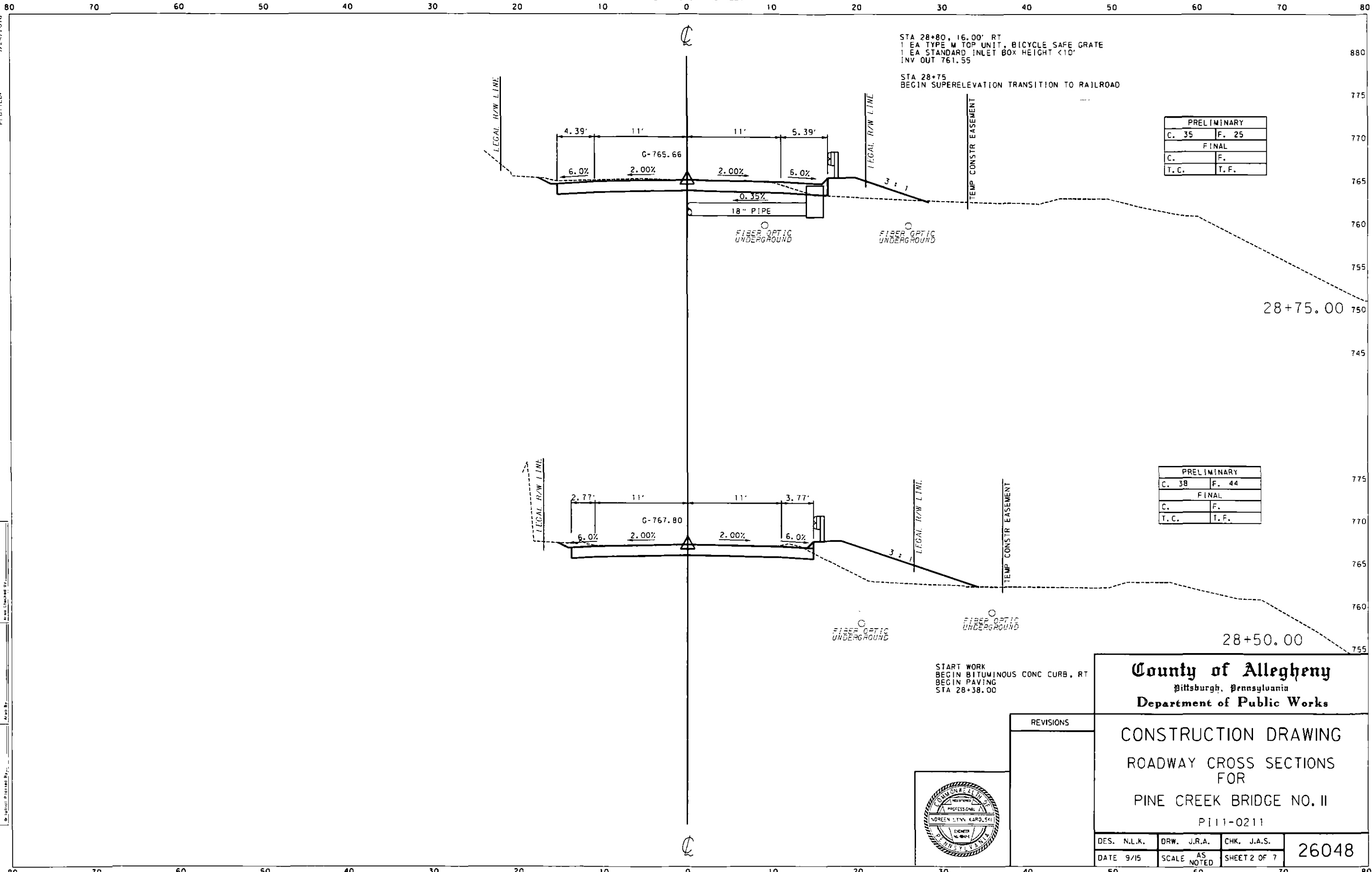
3/24/2016

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REVISIONS

County of Allegheny Pittsburgh, Pennsylvania Department of Public Works			
CONSTRUCTION DRAWING ROADWAY CROSS SECTIONS FOR PINE CREEK BRIDGE NO. II P111-0211			
DES. N.L.K.	DRW. J.R.A.	CHK. J.A.S.	26048
DATE 9/15	SCALE AS NOTED	SHEET 1 OF 7	



STA 28+80, 16.00' RT
 1 EA TYPE M TOP UNIT, BICYCLE SAFE GRATE
 1 EA STANDARD INLET BOX HEIGHT <10'
 INV OUT 761.55

STA 28+75
 BEGIN SUPERELEVATION TRANSITION TO RAILROAD

PRELIMINARY	
C. 35	F. 25
FINAL	
C.	F.
T.C.	T.F.

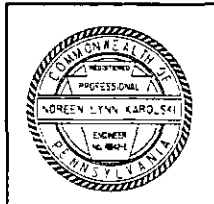
PRELIMINARY	
C. 38	F. 44
FINAL	
C.	F.
T.C.	T.F.

START WORK
 BEGIN BITUMINOUS CONC CURB, RT
 BEGIN PAVING
 STA 28+38.00

County of Allegheny
 Pittsburgh, Pennsylvania
 Department of Public Works

CONSTRUCTION DRAWING
 ROADWAY CROSS SECTIONS
 FOR
 PINE CREEK BRIDGE NO. II

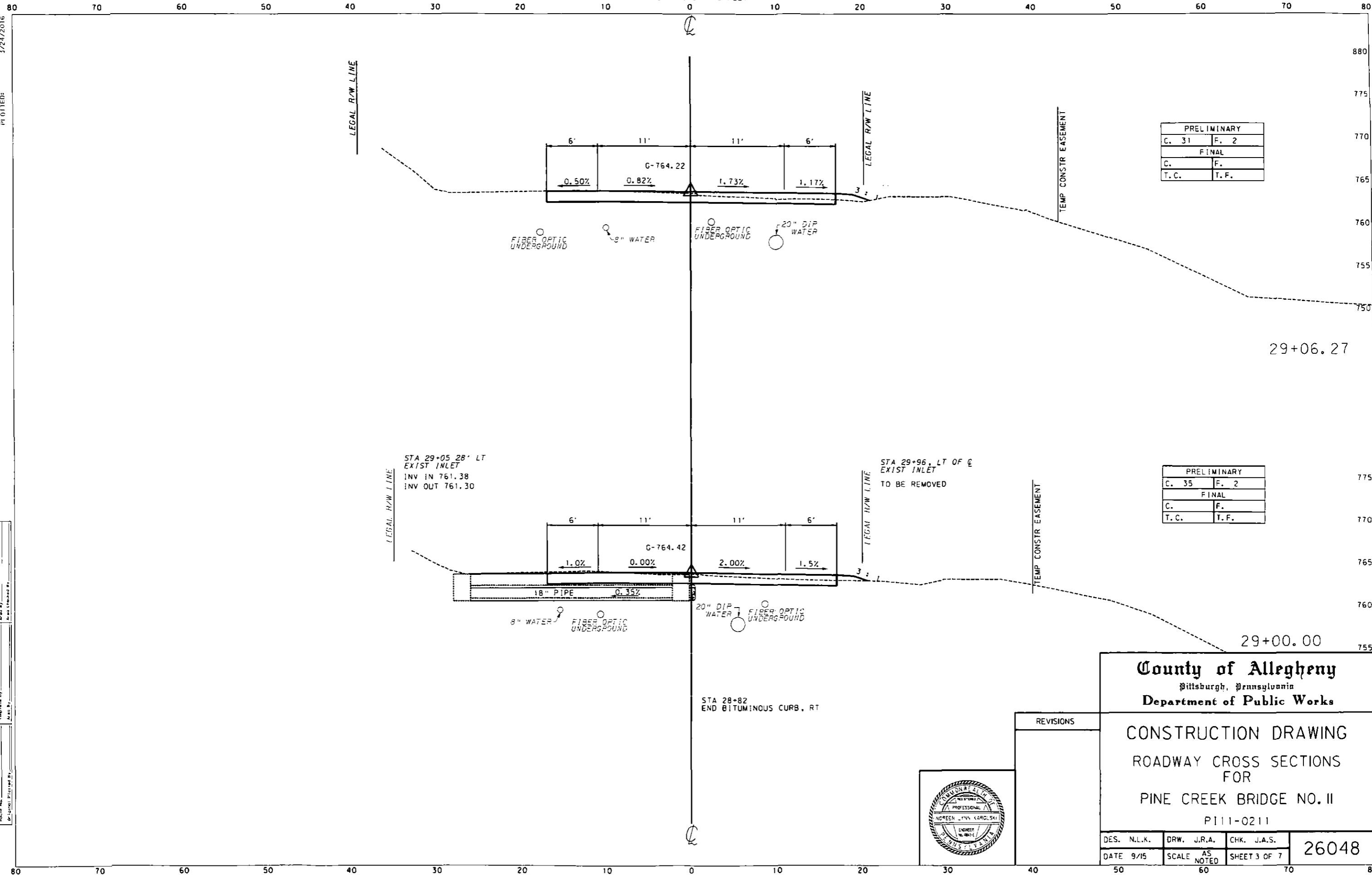
P111-0211



REVISIONS		

DES. N.L.K.	DRW. J.R.A.	CHK. J.A.S.	26048
DATE 9/15	SCALE AS NOTED	SHEET 2 OF 7	

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 DATE: 1/24/2016
 PLOTTER: PLOTTER
 PLOT DATE: 1/24/2016
 PLOT TIME: 10:00 AM
 PLOT BY: J.K.



PRELIMINARY	
C. 31	F. 2
FINAL	
C.	F.
T.C.	T.F.

PRELIMINARY	
C. 35	F. 2
FINAL	
C.	F.
T.C.	T.F.

OPERATIONS: J:\PROJECTS\16051-00\CAUTION\roadway\CROSS\LINE CK CONST. sections update 12-8-15.dgn
 PLOTTED: 3/24/2016
 DATE: 9/15
 SCALE: AS NOTED
 SHEET 3 OF 7
 26048

County of Allegheny
Pittsburgh, Pennsylvania
Department of Public Works

CONSTRUCTION DRAWING
ROADWAY CROSS SECTIONS
FOR
PINE CREEK BRIDGE NO. II
P111-0211

DES. N.L.K.	DRW. J.R.A.	CHK. J.A.S.	26048
DATE 9/15	SCALE AS NOTED	SHEET 3 OF 7	



REVISIONS	

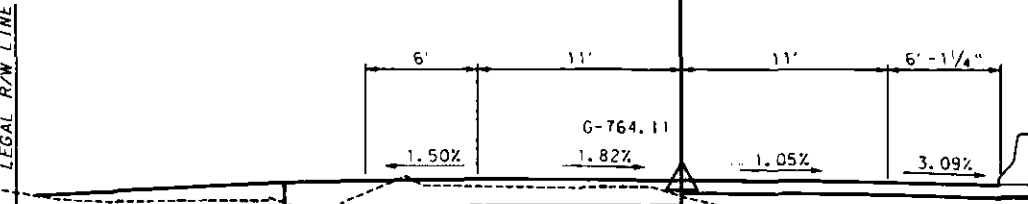
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 3/24/2016
 PLO111B.D

OPERATIONS
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Application No. _____
 Project No. _____
 Date of Issue _____
 Design Engineer _____
 Checker _____
 Date _____
 Scale _____
 Sheet _____ of _____

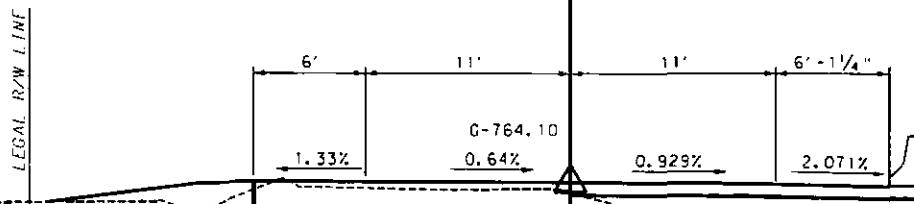
STA 29+52.89, LT
 BEGIN SUPERELEVATION TRANSITION TO NORMAL CROWN



PRELIMINARY	
C. 20	F. 5
FINAL	
C.	F.
T.C.	T.F.

TEMP CONSTR EASEMENT

29+52.89

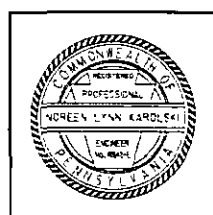


PRELIMINARY	
C. 20	F. 5
FINAL	
C.	F.
T.C.	T.F.

TEMP CONSTR EASEMENT

29+50.00

STA 29+40, RT
 BEGIN SUPERELEVATION TRANSITION TO NORMAL CROWN



REVISIONS		

County of Allegheny
 Pittsburgh, Pennsylvania
 Department of Public Works

CONSTRUCTION DRAWING
 ROADWAY CROSS SECTIONS
 FOR
 PINE CREEK BRIDGE NO. II
 P111-0211

DES. N.L.K.	DRW. J.R.A.	CHK. J.A.S.	26048
DATE 9/15	SCALE AS NOTED	SHEET 5 OF 7	

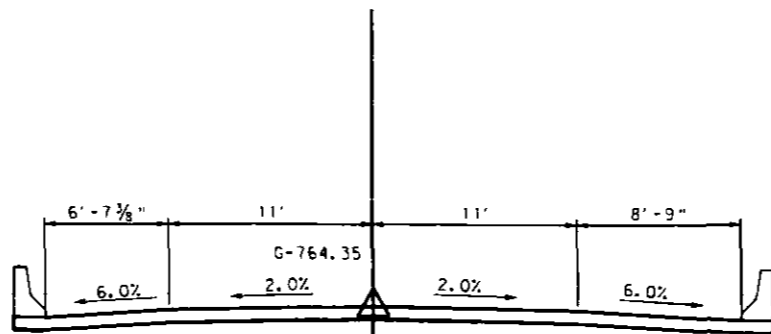
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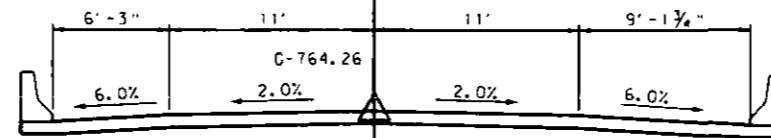
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 FILE NAME: \$\$\$\$\$\$

Application No. _____
 Issue No. _____
 Date of Issue _____
 Design No. _____
 Date of Design _____
 Drawn By _____
 Checked By _____
 Date of Check _____
 Approved By _____
 Date of Approval _____



PRELIMINARY	
C.	F.
FINAL	
C.	F.
T.C.	T.F.

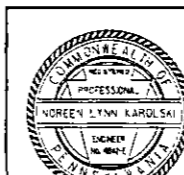
30+00.00



PRELIMINARY	
C.	F.
FINAL	
C.	F.
T.C.	T.F.

29+75.00

STA 29+75
 END SUPERELEVATION TRANSITION
 BEGIN NORMAL CROWN



REVISIONS	

County of Allegheny
 Pittsburgh, Pennsylvania
 Department of Public Works

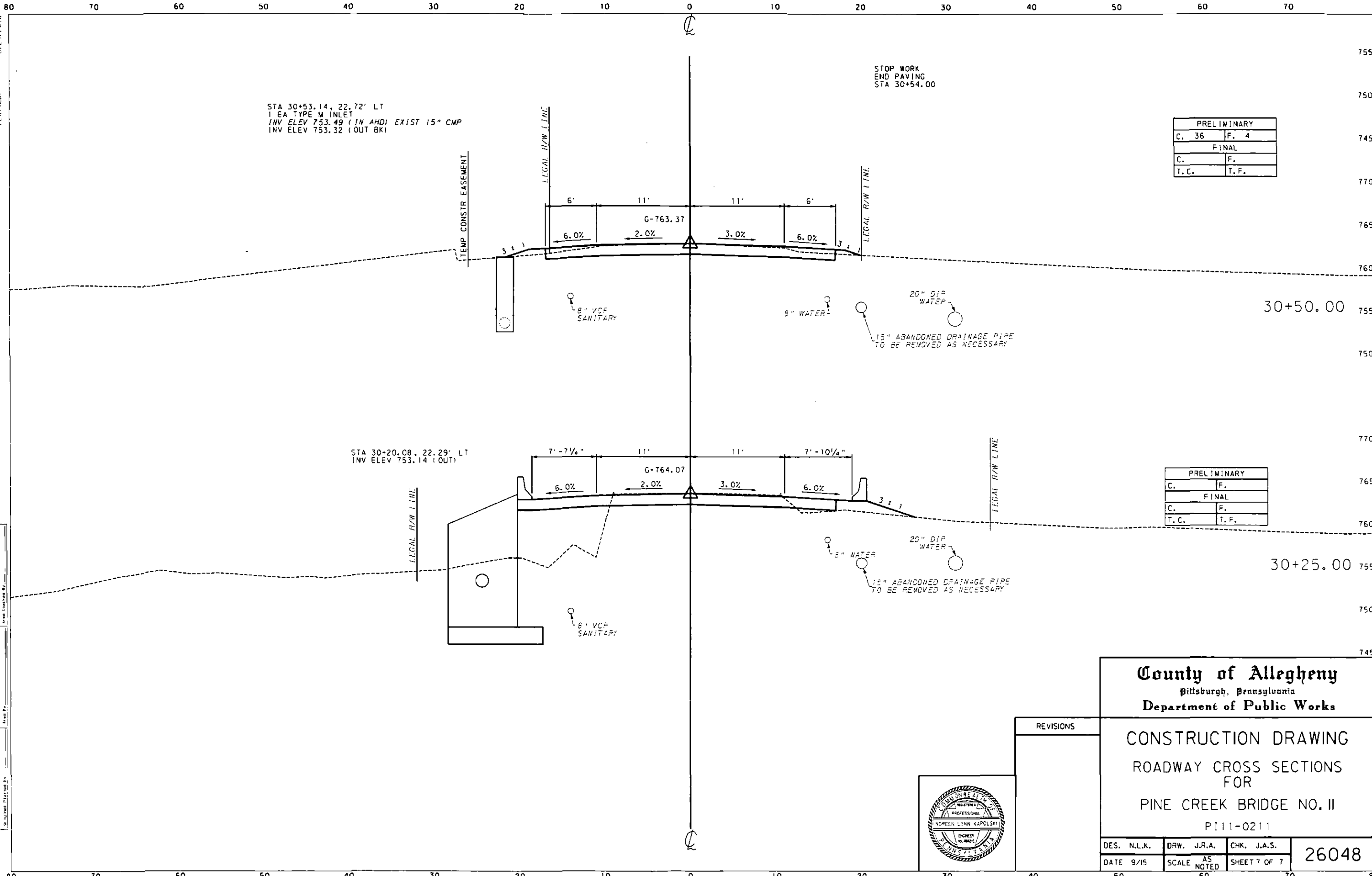
CONSTRUCTION DRAWING
 ROADWAY CROSS SECTIONS
 FOR
 PINE CREEK BRIDGE NO. II

P111-0211

DES. N.L.K. DRW. J.R.A. CHK. J.A.S.
 DATE 9/15 SCALE AS NOTED SHEET 6 OF 7

26048

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80



STA 30+53.14, 22.72' LT
 1 EA TYPE M INLET
 INV ELEV 753.49 (IN AHD) EXIST 15" CMP
 INV ELEV 753.32 (OUT BK)

STA 30+20.08, 22.29' LT
 INV ELEV 753.14 (OUT)

STOP WORK
 END PAVING
 STA 30+54.00

PRELIMINARY	
C. 36	F. 4
FINAL	
C.	F.
T. C.	T. F.

PRELIMINARY	
C.	F.
FINAL	
C.	F.
T. C.	T. F.

County of Allegheny
 Pittsburgh, Pennsylvania
 Department of Public Works

CONSTRUCTION DRAWING
 ROADWAY CROSS SECTIONS
 FOR
 PINE CREEK BRIDGE NO. II
 P111-0211



REVISIONS	

DES. N.L.K.	DRW. J.R.A.	CHK. J.A.S.	26048
DATE 9/15	SCALE AS NOTED	SHEET 7 OF 7	

OPERATOR: J:\NPG\116051-00\CAD\11-00\11-00\CONSTR\FIN\11-00\11-00.dgn
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 PLOT DATE: 3/24/2016
 PLOT TIME: 11:11:11 AM
 PLOT BY: J.A.S.
 PLOT DEVICE: HP DesignJet 5000