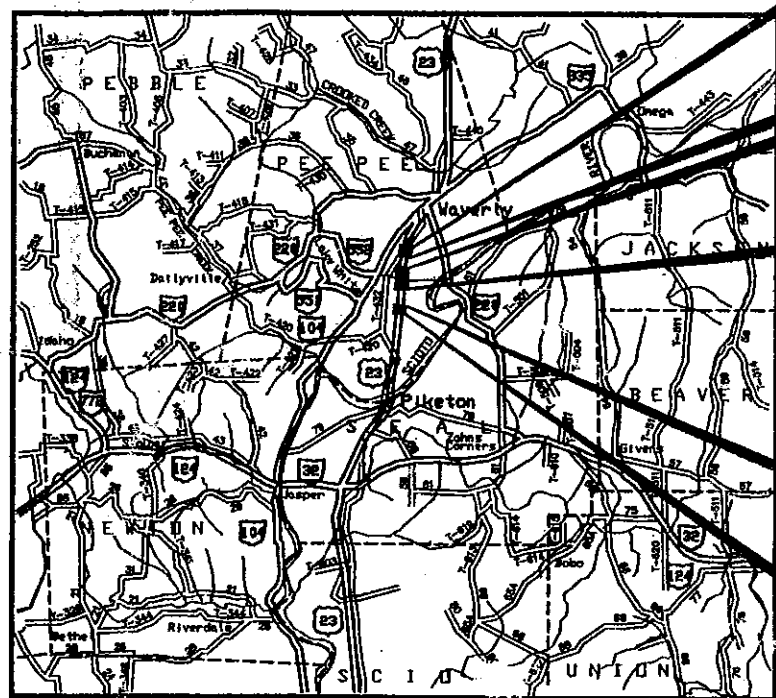
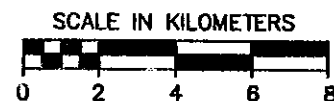




LOCATION MAP
LATITUDE: N39°05'25" LONGITUDE: W83°00'05"



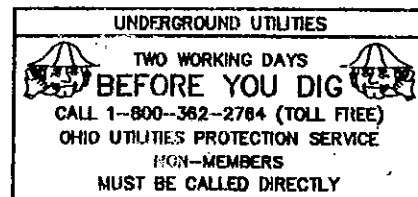
PORTION TO BE IMPROVED
STATE & FEDERAL ROUTES
OTHER ROADS

DESIGN DESIGNATION

CURRENT A.D.T.(1995) 14050
DESIGN YEAR ADT(2015) 18260
DESIGN HOURLY VOLUME (2015) 1826
DIRECTIONAL DISTRIBUTION 55%
TRUCKS 5%
DESIGN SPEED 100 KM/H
LEGAL SPEED 55 MPH (89KM/H)
DESIGN FUNCTIONAL CLASSIFICATION ARTERIAL (RURAL)

DESIGN EXCEPTIONS

NONE REQUIRED



PLAN PREPARED BY:

JONES-STUCKEY LTD., INC.
1641 WEST FIFTH AVENUE
COLUMBUS, OHIO 43212

END PROJECT
STA. 4+605.994
RESUME PROJECT
STA. 4+462.732
SUSPEND PROJECT
STA. 3+894.457
RESUME PROJECT
STA. 3+623.545

SUSPEND PROJECT
STA. 2+958.424
BEGIN PROJECT
STA. 2+705.517

STATE OF OHIO DEPARTMENT OF TRANSPORTATION PIK-23-15.707/16.625/17.477

PEE PEE TOWNSHIP
PIKE COUNTY

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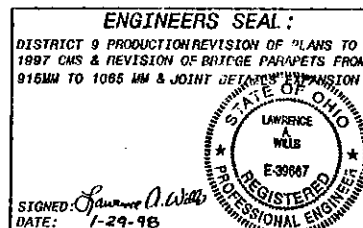
PROJECT DESCRIPTION
IMPROVEMENT OF 667.081 m OF U.S.R. 23 BY
REHABILITATION OF SIX STRUCTURES, PIK-23-0977L&R
OVER OVERFLOW, PIK-23-1034L&R OVER PEE PEE CREEK
AND PIK-23-1087L&R OVER OVERFLOW, INCLUDING
APPROACH RECONSTRUCTION.

1997 SPECIFICATIONS
THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO,
DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES
AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE
PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT
THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE
THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT
PROVISIONS FOR THE MAINTENANCE AND SAFETY OF
TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND
ESTIMATES.

UNDER AUTHORITY OF SECTION 4511.21, DIVISION (1)
OF THE REVISED CODE OF OHIO, THE REVISED PRIMA
FACIE SPEED LIMITS AS INDICATED HEREIN ARE DETER-
MINED TO BE REASONABLE AND SAFE, AND ARE HEREBY
ESTABLISHED FOR THE DURATION OF THIS PROJECT.
THE PRIMA FACIE SPEED LIMIT OR LIMITS HEREBY
ESTABLISHED SHALL BECOME EFFECTIVE WHEN APPRO-
PRIATE SIGNS GIVEN NOTICE THEREOF ARE ERECTED.

STRUCTURE PLANS REVIEWED BY
OFFICE OF STRUCTURAL ENGINEERING



STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	
BP-2.1M (4-8-97)	HW-2.1M (7-12-95)	MT-99.20M (1-30-95)	CS-1.93M (6-30-95)		
BP-3.1M (10-28-94)	HW-2.2M (7-12-95)	MT-101.60M (4-25-94)			
BP-5.1M (10-28-94)	HW-2.2M (7-12-95)	MT-105.10M (4-25-94)	EXJ-8.96M (3-18-97)		
GR-1.1M (10-21-97)	DM-1.1M (10-21-97)	MT-105.11M (4-25-94)	THJ-8.95M (7-6-95)	806 (9-9-97)	
GR-1.2 (1-3-96)	DM-1.1M (10-21-97)	MT-100.00M (4-25-94)	CPP-2.94M (12-19-94)	911 (7-10-97)	
GR-2.1M (10-21-97)	DM-2.1M (6-30-95)	TC-41.20M (7-1-94)	CPA-5.94M (10-25-94)	932 (10-2-96)	
GR-3.1M (10-21-97)	DM-4.1M (6-30-95)	TC-42.20M (3-31-94)		844 (9-9-97)	
GR-3.2M (10-21-97)	DM-4.2M (6-30-95)	TC-52.10M (7-29-94)		954 (9-9-97)	
GR-6.1M (1-3-96)	DM-4.3M (6-30-95)	TC-52.20M (7-29-94)			
RM-4.1M (10-21-97)	DM-4.4M (6-30-95)	TC-65.10M (11-1-95)			
RM-4.2M (10-21-97)	MT-35.10M (1-30-95)	TC-65.11M (11-1-95)			
RM-4.3M (10-21-97)	MT-35.11M (1-30-95)	TC-65.12M (11-1-95)			
RM-4.5M (10-21-97)	MT-95.30M (4-25-94)	TC-71.10M (9-1-93)			
CB-1.1M (7-12-95)	MT-95.70M (1-30-95)	AS-1.81M (10-25-94)			
CB-3.3M (7-12-95)	MT-95.81M (4-25-94)	BR-1M (12-15-94)			

APPROVED: John F. Hagen
DATE 1-23-98 DISTRICT DEPUTY DIRECTOR

APPROVED: [Signature]
DATE 2-17-98 DIRECTOR, DEPARTMENT OF TRANSPORTATION



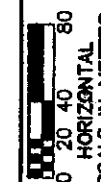
FEDERAL PROJECT NO.
NH-22 (86)

CONSTRUCTION PROJECT NO.
15439

RAILROAD INVOLVEMENT
NONE

PIK-23-15.707/16.625/17.477
(SLM 9.76/10.33/10.86)

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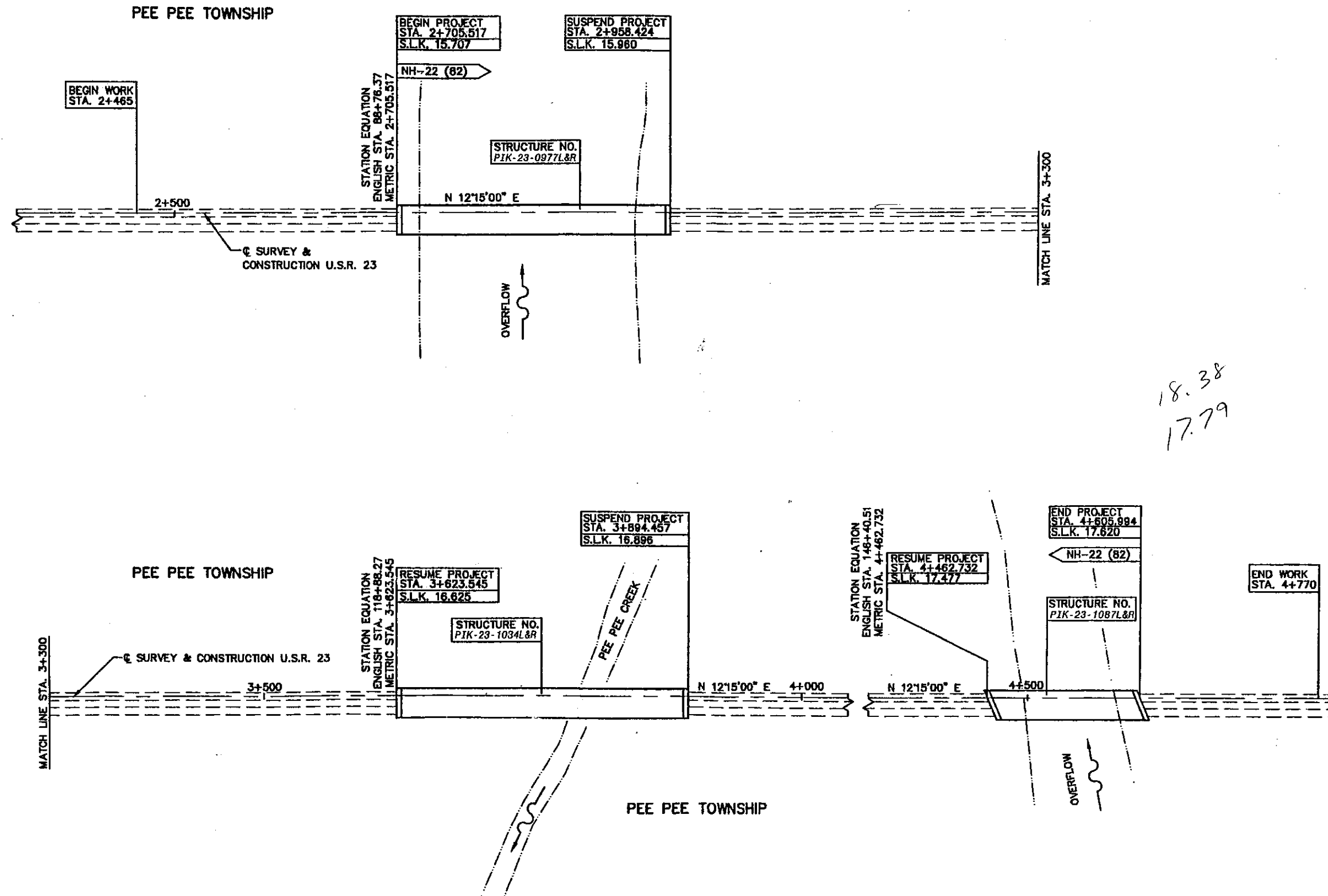


CALCULATED	
R.S.B.	
CHECKED	
F.D.W.	

SCHEMATIC PLAN

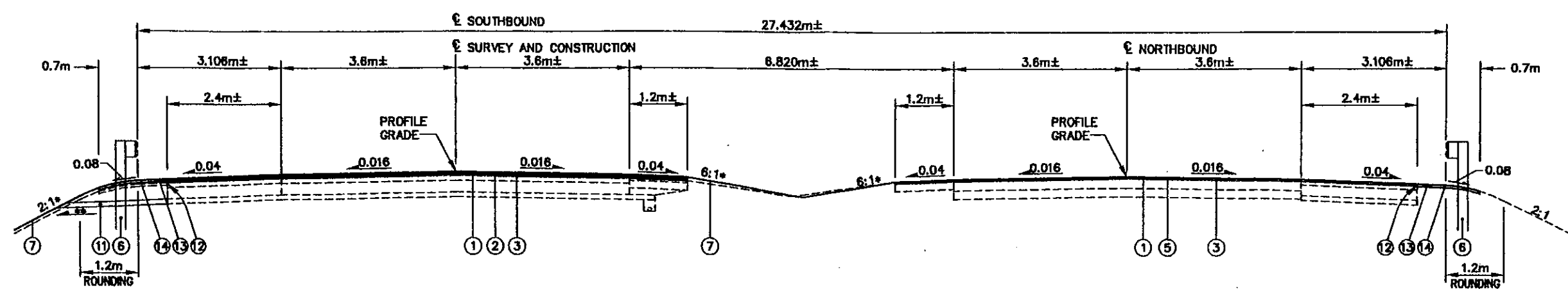
PIK-23-15.707/16.625/17.477

2
117



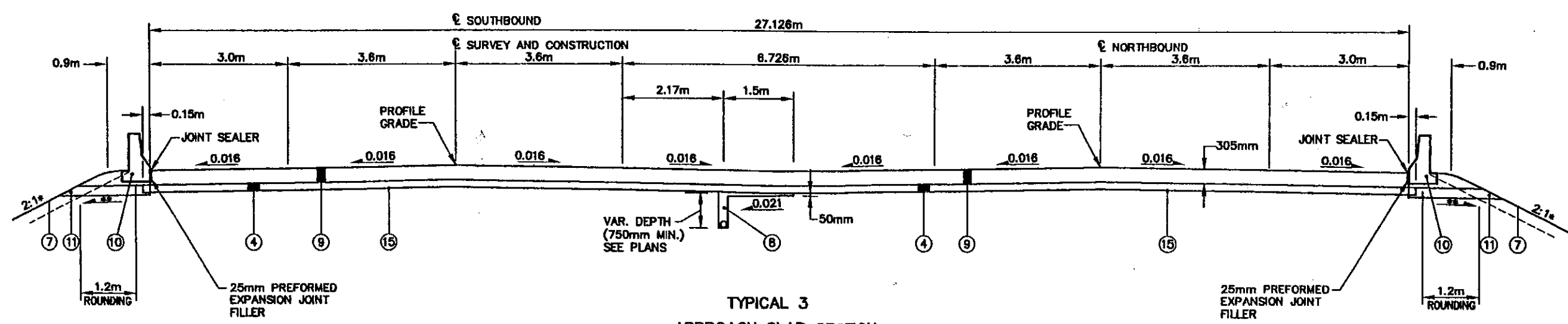
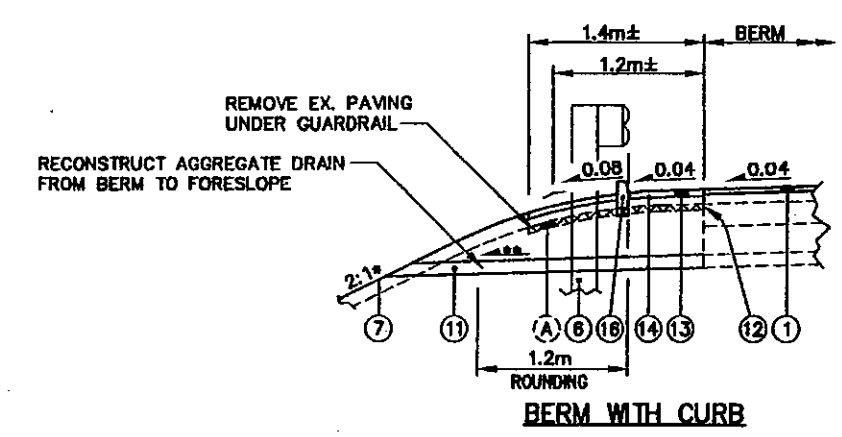
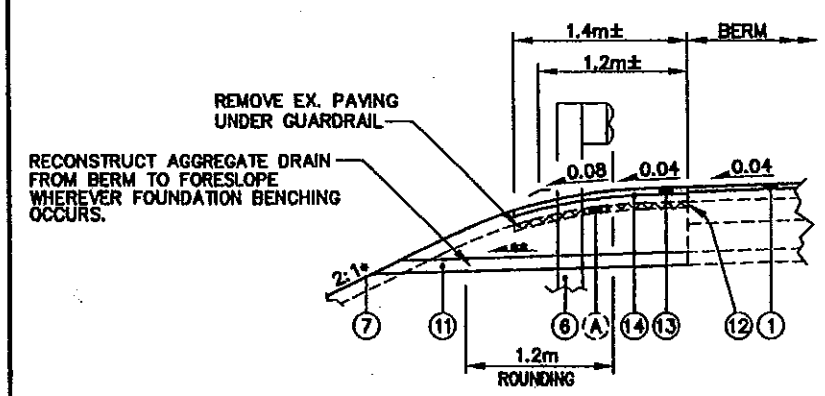
10.33

18.38
17.7°



**TYPICAL 2
NORMAL SECTION**

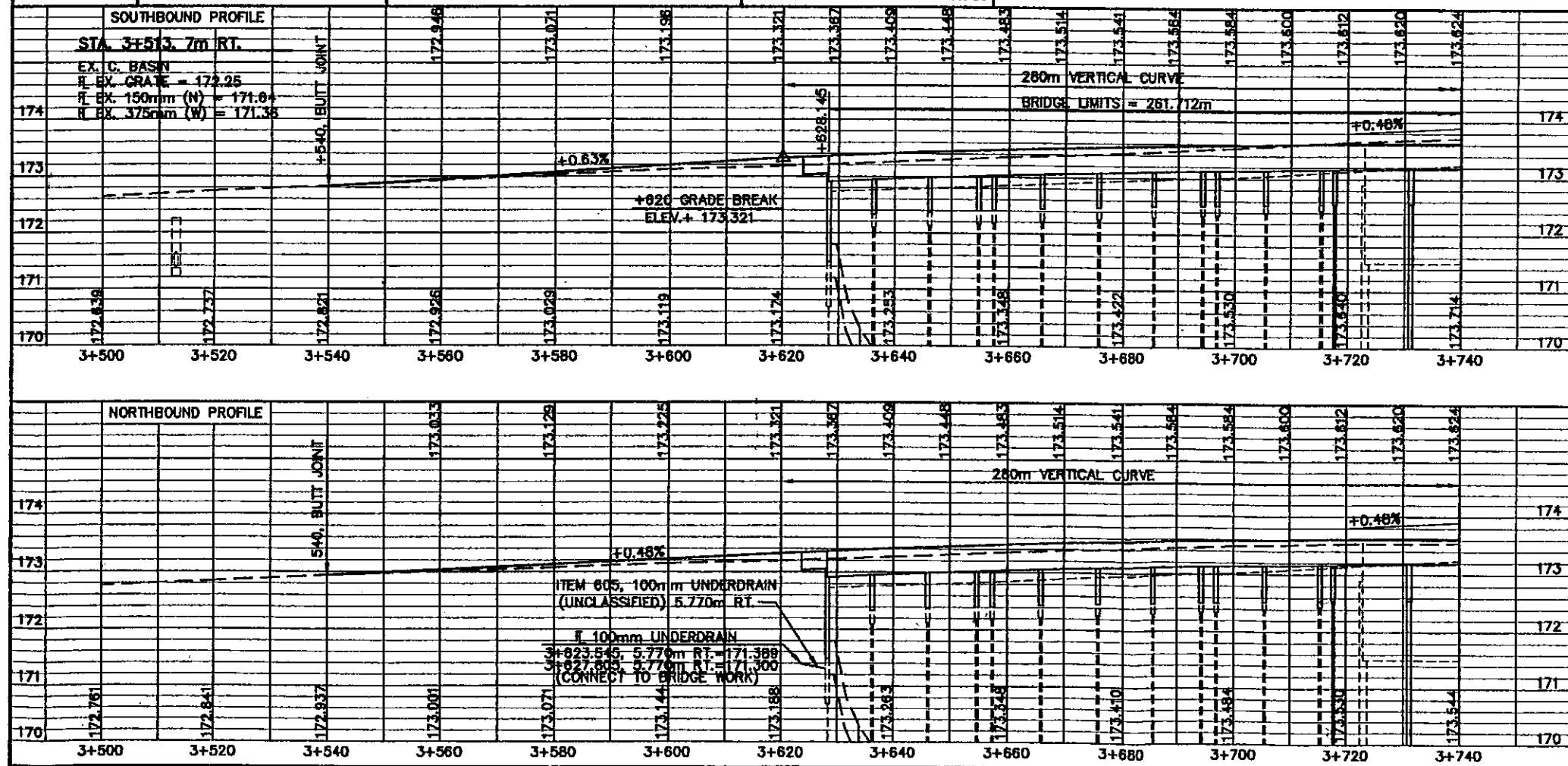
STA. 2+680.000 TO STA. 2+705.517	= 25.517 m
STA. 2+958.424 TO STA. 3+020.000	= 61.576 m
STA. 3+540.000 TO STA. 3+623.545	= 83.545 m
STA. 3+894.457 TO STA. 3+960.000	= 65.543 m
STA. 4+400.000 TO STA. 4+462.732	= 62.732 m
STA. 4+605.994 TO STA. 4+640.000	= 34.006 m
	332.919 m



**TYPICAL 3
APPROACH SLAB SECTION**

STA. 2+705.517 TO STA. 2+710.117	= 4.6 m
STA. 2+953.824 TO STA. 2+958.424	= 4.6 m
STA. 3+623.545 TO STA. 3+628.145	= 4.6 m
STA. 3+889.857 TO STA. 3+894.457	= 4.6 m
STA. 4+462.732 TO STA. 4+467.332	= 4.6 m
STA. 4+601.394 TO STA. 4+605.994	= 4.6 m
	27.6 m

NOTES:
SEE SHEET 3 FOR LEGEND.
SEE EXAGGERATED PAVEMENT SECTIONS FOR LOCATIONS AND QUANTITIES OF ⑤ & ②
*: UNLESS OTHERWISE SHOWN ON THE CROSS SECTION
**: 0.04 MIN.
0.08 PREF.



REF. NO.	STATION		SIDE	202		255	516		601	605	806		611	622	870		202											
				GUARDRAIL REMOVED	FOR BARRIER REUSE DESIGN		FULL DEPTH PAVEMENT SAWING	25mm PREFORMED EXPANSION JOINT FILLER			51mm DEEP JOINT SEALER	PAVED GUTTER TYPE 2			100mm UNCLASSIFIED PIPE UNDERDRAIN	GUARDRAIL REBUILT TYPE 5		BRIDGE TERMINAL ASSEMBLY		REINFORCED CONCRETE APPROACH SLAB (7'-305mm) AS PER PLAN	DITCH EROSION PROTECTION	SLOPE EROSION PROTECTION						
																		METER	METER				EACH	EACH	SQ. METER	METER	SQ. METER	SQ. METER
	FROM	TO																										
1-D	3+513.000	3+600.000	RT.																									
2-D	3+600.000	3+623.645	RT.						87																			
3-D	3+620.442	3+627.805	LT.												54	49												
4-D	3+618.114	3+627.805	RT.													85												
1-G	3+539.870	3+623.480	LT.																									
2-G	3+539.278	3+621.193	RT.																									
1-P	3+623.545	3+628.145	LT./RT.																									
2-P	3+622.880	3+628.145	LT.		1	5						125																
3-P	3+620.552	3+628.145	RT.		1	5							5.265															
													7.593															
1-R	3+539.870	3+627.300	LT.																									
2-R	3+539.278	3+628.908	RT.																									
3-R	3+587.000	3+627.005	RT.																									
4-R	3+540.000	3+623.545	LT.			63.5																						
5-R	3+540.000	3+623.545	RT.			83.5																						
6-R	3+604.500	3+623.545	RT.			19.0																						
7-R	3+604.500	3+623.545	RT.			18.0																						
8-R	3+623.545	3+628.145	LT./RT.														50											
1-U	3+623.545	3+627.805	RT.																									
TOTALS CARRIED TO GENERAL SUMMARY 28						205	2	10	87	4	165.735	1	125	13	54	134	50											

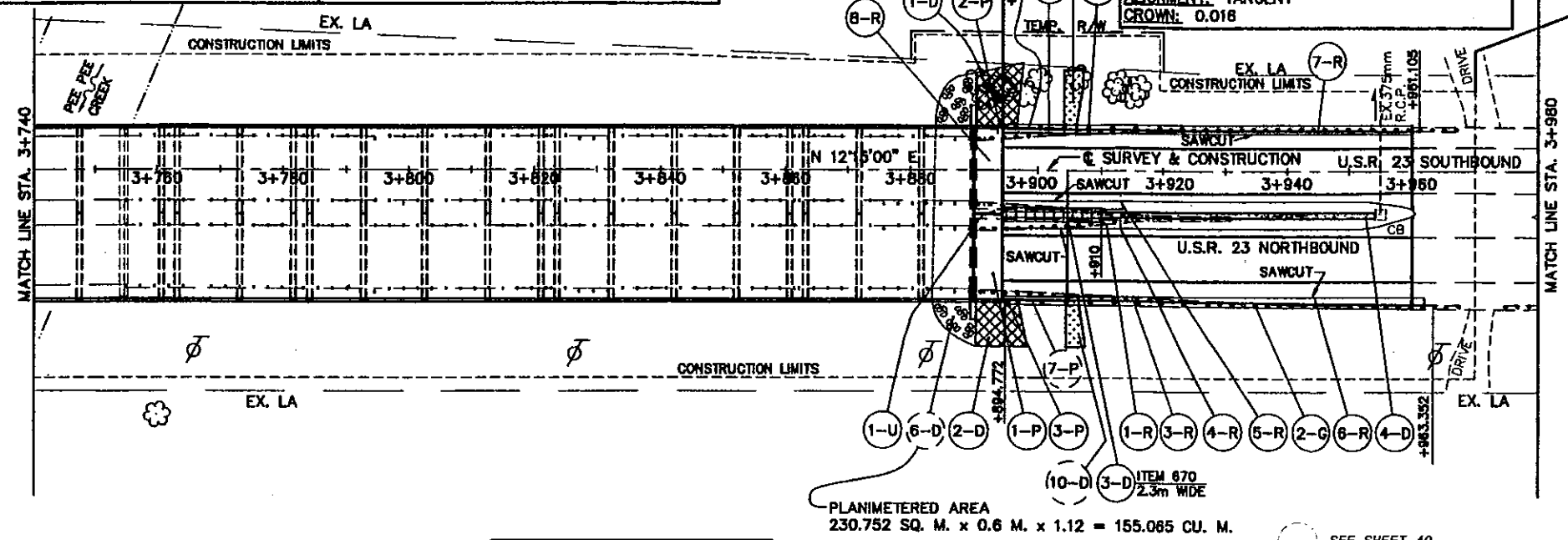
EXISTING STRUCTURE (RIGHT)	EXISTING STRUCTURE(LEFT)
TYPE: CONTINUOUS CONCRETE SLAB AND THRU PLATE GIRDER SPAN: 261.16m C/C BEARINGS ROADWAY: 9.910m F/F RAIL LOADING: CF-400 SKEW: NONE WEARING SURFACE: 63.5m ASPHALT CONCRETE APPROACH SLABS: NONE	TYPE: CONTINUOUS CONCRETE SLAB AND THRU PLATE GIRDER SPAN: 261.16m C/C BEARINGS ROADWAY: 10.210m F/F RAIL LOADING: CF-400 SKEW: NONE WEARING SURFACE: MONOLITHIC CONCRETE APPROACH SLABS: AS-4-47

PROPOSED STRUCTURE
TYPE: CONTINUOUS CONCRETE SLAB ON CAPPED PILE PIERS & ABUTMENTS. SPAN: 260.792m F/F OF ABUTMENTS. ROADWAY: 27.126m T/T PARAPET LOADING: MS-18 & ALTERNATE MILITARY LOADING SKEW: NONE WEARING SURFACE: 26mm MONOLITHIC CONC. APPROACH SLABS: AS-1-81M (4.6m LONG) ALIGNMENT: TANGENT CROWN: 0.018

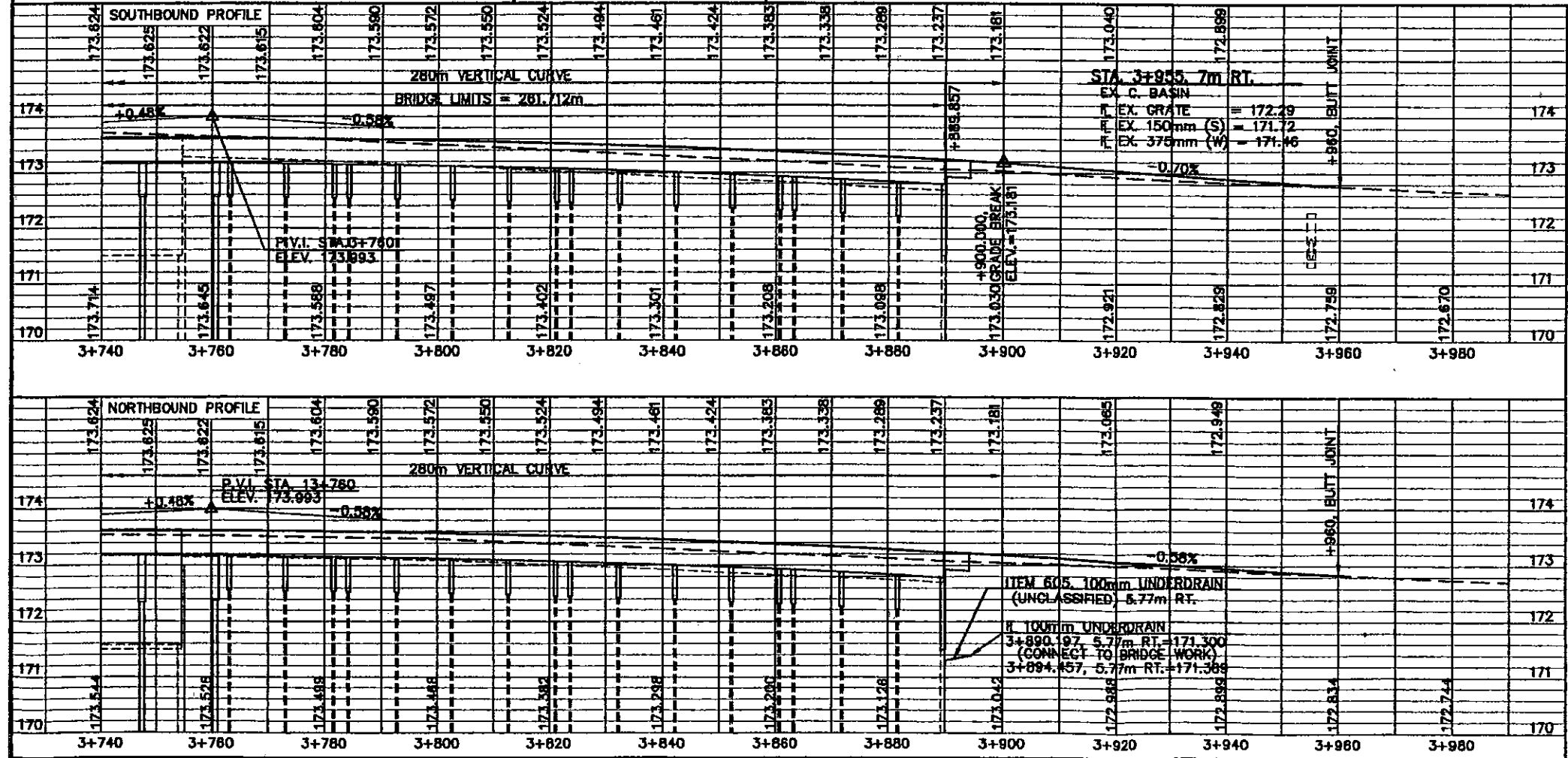
metric units

SUSPEND PROJECT STA. 3+894.457

SUSPEND WORK STA. 3+970.000



BENCH MARK NO.22
FENCE POST FLUSH N/E SIDE OF BRIDGE.
STA. 3+899.870 31.282 RT.
ELEVATION 169.488

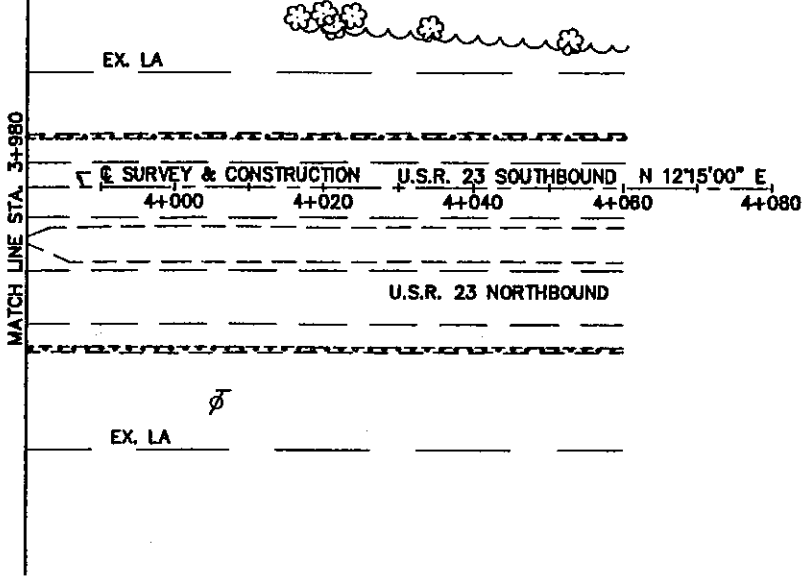
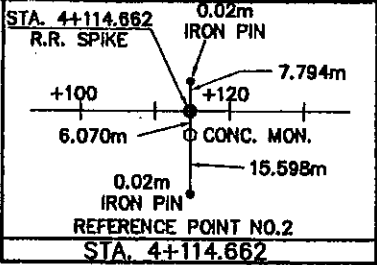


REF. NO.	STATION		SIDE	202		255	516		601	805	806		611	822	670		202						
				GUARDRAIL REMOVED FOR BARRIER REUSE DESIGN	METER		FULL DEPTH PAVEMENT SAWING	25mm PREFORMED EXPANSION JOINT FILLER			51mm DEEP JOINT SEALER	PAVED GUTTER TYPE 2			100mm UNCLASSIFIED PIPE UNDERDRAIN	GUARDRAIL REBUILT TYPE 5		BRIDGE TERMINAL ASSEMBLY		REINFORCED CONCRETE APPROACH SLAB (T=305mm) AS PER PLAN	CONCRETE BARRIER TYPE D AS PER PLAN	DITCH EROSION PROTECTION	SLOPE EROSION PROTECTION
																		TYPE 1	TYPE 2				
FROM	TO																						
1-D	3+890.197	3+897.509	LT.																				
2-D	3+890.197	3+897.820	RT.													62							
3-D	3+894.357	3+910.000	RT.												36	48							
4-D	3+910.000	3+955.000	RT.						45														
1-G	3+894.430	3+961.105	LT.								66.675												
2-G	3+894.772	3+963.352	RT.								68.580	1											
1-P	3+898.857	3+894.457	LT./RT.																				
2-P	3+898.857	3+895.071	LT.				1	5					125			5.214							
3-P	3+898.857	3+895.382	RT.				1	5								5.925							
1-R	3+890.995	3+931.000	RT.	33.340	13.340																		
2-R	3+892.525	3+961.105	LT.	58.580																			
3-R	3+890.982	3+963.352	RT.	72.390																			
4-R	3+894.457	3+913.000	RT.			18.5																	
5-R	3+894.457	3+913.000	RT.			18.5																	
6-R	3+894.457	3+962.000	RT.			67.5																	
7-R	3+894.457	3+960.000	LT.			65.5																	
8-R	3+898.857	3+894.457	LT./RT.														50						
1-U	3+890.197	3+894.457	RT.							4.260													
TOTALS CARRIED TO GENERAL SUMMARY 28				194.310	13.340	170	2	10	45	4	135.255	1	1	125	11	36	111	50					

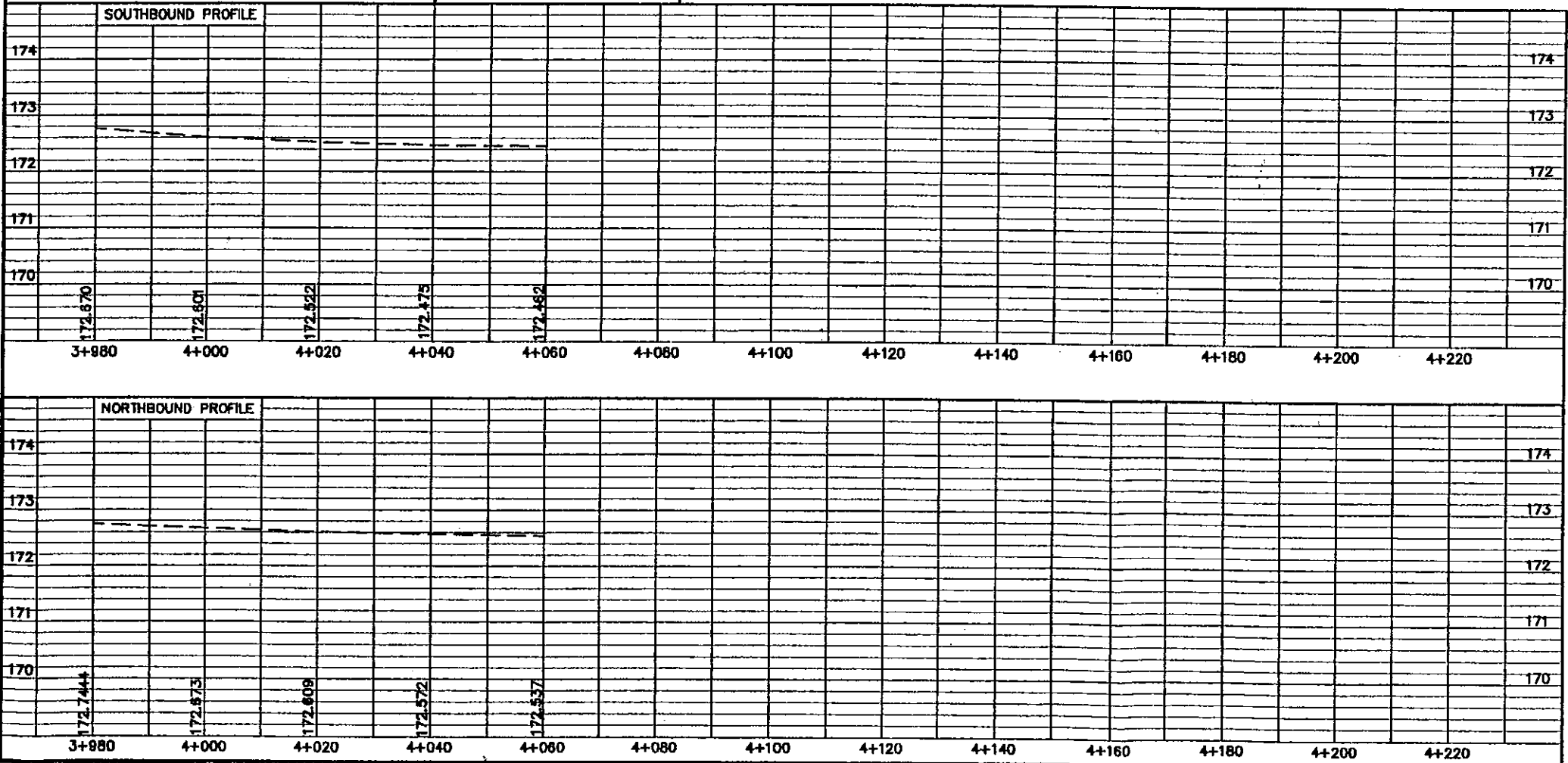
U.S.R. 23 PLAN AND PROFILE
STA. 3+740 TO STA. 3+980

PIK-23-15.707/16.625/17.477

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BENCH MARK NO.12
STEEL POST DRIVEN FLUSH
WEST SIDE GUARDRAIL
STA. 4+040.00 8m ± LT.
ELEVATION 172.100



REF. NO.	STATION		SIDE	SEE SHEET NO.	660	809	801	155	15.370	15.855	19.795	36
	FROM	TO										
B-D	3+883.453	3+980.289	LT./RT.					155				
B-P	3+895.183	3+904.348	LT.									
7-P	3+895.472	3+904.657	RT.						9.185	9.185		
9-D	3+904.081	3+907.081	LT.									
10-D	3+904.450	3+907.450	RT.									
TOTALS CARRIED TO GENERAL SUMMARY 28												



- HYDRAULIC SUMMARY TABLE
PIK-23-16.625
OVER PEE PEE CREEK

JONES-STUCKEY, LTD., INC.
1641 WEST FIFTH AVENUE
COLUMBUS, OHIO 43212



—EX. R/W



D.D.S. 9-28-94
STRUCTURE FILE NUMBER
6600425(L)
6600484(R)

G.G.N.	J.W.E.
CHECKED D.W.J.	REMOVED

STA. 3+628.145
STA. 3+889.857

SITE PLAN
BRIDGE NO. PIK-23-1034L&R
OVER PEE PEE CREEK

PIK-23-15.707 /
16.625 / 17.477

2	17
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77
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BRIDGE NO: PIK-23-1034 L. STRUCTURE FILE NUMBER: 6600425										
ESTIMATE QUANTITIES						CALC BY:	G.G.N.	CHK'D BY:	R.S.B.	
ITEM	ITEM EXT.	QUANTITY	UNIT	DESCRIPTION	ABUT.	DATE:	1-16-95	DATE:	4-26-95	SEE SHEET NO.
202	11203	LUMP		PORTIONS OF STRUCTURE REMOVED, OVER 6 METER SPAN, AS PER PLAN						6/17
503	11100	LUMP		COFFERDAMS, CRIBS AND SHEETING						
503	21101	205	CU. M.	UNCLASSIFIED EXCAVATION, AS PER PLAN	30			175		6/17
505	11100	LUMP		PILE DRIVING EQUIPMENT MOBILIZATION						
507	00500	408	METER	300MM CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	48			360		
507	00550	459	METER	300MM CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	54			405		
507	00700	1120	METER	400MM CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN				1120		
507	00750	1225	METER	400MM CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED				1225		
507	50500	52	EACH	STEEL PILE SPLICES	2			50		
SPECIAL	51267510	1287	SQ. M.	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) (SEE PROPOSAL NOTE)	63		1224			
516	11211	57	METER	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN			57			6/17
516	41500	18	EACH	25mm ELASTOMERIC BEARING PAD (305 X 610 - 50 DUROMETER)				18		
518	12500	10	EACH	NEW SCUPPER, MISC., NEENAH R-4005-A2 OR EQUIVALENT.			10			
518	21200	44	CU. M.	POROUS BACKFILL WITH FILTER FABRIC	44					
518	40000	33	METER	150 MM PERFORATED CORRUGATED PLASTIC PIPE	33					
518	40010	5	METER	150 MM NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	5					
603	00101	2	METER	100MM CONDUIT, TYPE B, AS PER PLAN				2		6/17
604	36600	2	EACH	PRECAST REINFORCED CONCRETE OUTLET	2					
844	48000	1836	CU. M.	HIGH PERFORMANCE CONCRETE, SUPERSTRUCTURE (DECK)			1836			
844	48020	84	CU. M.	HIGH PERFORMANCE CONCRETE, SUPERSTRUCTURE (PARAPET)			84			
844	49500	306	CU. M.	HIGH PERFORMANCE CONCRETE, MISC., SUBSTRUCTURE	36			270		

• SEE PROPOSAL NOTE

BRIDGE NO: PIK-23-1034 R. STRUCTURE FILE NUMBER: 6600484										
ESTIMATE QUANTITIES						CALC BY:	G.G.N.	CHK'D BY:	R.S.B.	
ITEM	ITEM EXT.	QUANTITY	UNIT	DESCRIPTION	ABUT.	DATE:	1-16-95	DATE:	4-26-95	SEE SHEET NO.
202	11203	LUMP		PORTIONS OF STRUCTURE REMOVED, OVER 6 METER SPAN, AS PER PLAN						6/17
503	11100	LUMP		COFFERDAMS, CRIBS AND SHEETING						
503	21101	203	CU. M.	UNCLASSIFIED EXCAVATION, AS PER PLAN	28			175		6/17
505	11100	LUMP		PILE DRIVING EQUIPMENT MOBILIZATION						
507	00500	432	METER	300MM CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	72			360		
507	00550	486	METER	300MM CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	81			405		
507	00700	1120	METER	400MM CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN				1120		
507	00750	1225	METER	400MM CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED				1225		
507	50500	53	EACH	STEEL PILE SPLICES	3			50		
511	43201	2	CU. M.	CLASS C CONCRETE, PIER, AS PER PLAN				2		
SPECIAL	51267510	1287	SQ. M.	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) (SEE PROPOSAL NOTE)	63		1224			6/17
516	11211	57	METER	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN			57			6/17
516	41500	18	EACH	25mm ELASTOMERIC BEARING PAD (305 X 610 - 50 DUROMETER)				18		
518	12500	5	EACH	NEW SCUPPER, MISC., NEENAH R-4005-A2 OR EQUIVALENT.			5			
518	21200	44	CU. M.	POROUS BACKFILL WITH FILTER FABRIC	44					
518	40000	33	METER	150 MM PERFORATED CORRUGATED PLASTIC PIPE	33					
518	40010	5	METER	150 MM NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	5					
519	11101	2	SQ. M.	PATCHING CONCRETE STRUCTURE, AS PER PLAN				2		6/17
604	36600	2	EACH	PRECAST REINFORCED CONCRETE OUTLET	2					
844	48000	1836	CU. M.	HIGH PERFORMANCE CONCRETE, SUPERSTRUCTURE (DECK)			1836			
844	48020	84	CU. M.	HIGH PERFORMANCE CONCRETE, SUPERSTRUCTURE (PARAPET)			84			
844	49500	326	CU. M.	HIGH PERFORMANCE CONCRETE, MISC., SUBSTRUCTURE	38			288		

• SEE PROPOSAL NOTE

DESIGN AGENT
JONES-STUCKEY, LTD., INC.
1641 WEST FIFTH AVENUE
COLUMBUS, OHIO 43212

DATE
2-28-95
STRUCTURE FILE NUMBER
6600425 (L)
6600484 (R)

REVIEWED
D.W.J.
J.M.P.
G.G.N.
E.D.W.

ESTIMATE QUANTITIES
BRIDGE NO. PIK-23-1034&R
OVER PEE PEE CREEK

PIK-23-15.707/
16.625/17.477

5 / 17

80
117

in:db99atd\ref\m34braht.dgn
23-JAN-1998 13:43
gocoheno
Plotted by
Drawing 1 In:proj\ref\23p5107\brn09a.dgn

REFERENCE SHALL BE MADE TO STANDARD DRAWINGS.

AS-1-81M DATED 10-25-94
BR-1M DATED 12-15-94
CPA-5-94M DATED 10-25-94
CPP-2-94M DATED 12-19-94
CS-1-93M REVISED 6-30-95
EXJ-6-95M REVISED 3-18-97
IRJ-8-95M DATED 7-6-95

AND TO SUPPLEMENTAL SPECIFICATION:
844 DATED 9-09-97
911 DATED 7-10-97
954 DATED 9-09-97

DESIGN SPECIFICATIONS:

THE STRUCTURE CONFORMS TO "STANDARD SPECIFICATION FOR HIGHWAY BRIDGE" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 1996 AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN DATA:

DESIGN LOADING: MS18 AND THE ALTERNATE MILITARY LOADING.
DESIGN STRESSES:
CONCRETE CLASS S - COMPRESSIVE STRENGTH 31.0 MPa (SUPERSTRUCTURE)
CONCRETE CLASS C - COMPRESSIVE STRENGTH 27.5 MPa (SUBSTRUCTURE)
REINFORCING STEEL - ASTM A615M, A615W, OR A617M
GRADE 420 MINIMUM YIELD STRENGTH 420 MPa.
SPIRAL REINFORCEMENT MAY BE PLAIN BARS, ASTM A82M OR A615W.

DECK PROTECTION METHOD:

EPOXY COATED REINFORCING STEEL.
65 mm CONCRETE COVER.
MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE 25 mm THICK.

PILE DESIGN LOADS (ULTIMATE BEARING VALUE):

THE ULTIMATE BEARING VALUE IS 444 kN PER PILE FOR THE 300 mm ABUTMENT PILES.
THE ULTIMATE BEARING VALUE IS 534 kN PER PILE FOR THE 400 mm PIER PILES.

ABUTMENT PILES FOR LEFT BRIDGE:
4 PILES 12 METERS LONG, ESTIMATED LENGTH
4 PILES OF ORDER LENGTH 13.5 METERS LONG
2 SPLICES

PIER PILES FOR LEFT BRIDGE:
70 PILES 16 METERS LONG, ESTIMATED LENGTH
70 PILES OF ORDER LENGTH 17.5 METERS LONG
35 SPLICES

ABUTMENT PILES FOR RIGHT BRIDGE:
6 PILES 12 METERS LONG, ESTIMATED LENGTH
6 PILES OF ORDER LENGTH 13.5 METERS LONG
3 SPLICES

PIER PILES FOR RIGHT BRIDGE:
70 PILES 16 METERS LONG, ESTIMATED LENGTH
70 PILES OF ORDER LENGTH 17.5 METERS LONG
35 SPLICES

PILES TO BEDROCK:

PIER PILES FOR COLUMN PIERS LOCATED IN PEE PEE CREEK SHALL BE DRIVEN TO REFUSAL ON BEDROCK. REFUSAL SHALL BE CONSIDERED AS OBTAINED BY PENETRATING SOFT BEDROCK FOR SEVERAL MILLIMETERS WITH A MINIMUM RESISTANCE OF 20 BLOWS PER 25 mm OR REFUSAL SHALL BE CONSIDERED AS OBTAINED AFTER THE PILE HAS CONTACTED HARD BEDROCK AND THE PILE HAS THEN RECEIVED AT LEAST 20 BLOWS.

THE ULTIMATE BEARING VALUE IS 624 kN FOR THE 300 mm PIER PILES.

PIER PILES FOR LEFT BRIDGE:
30 PILES 12 METERS LONG, ESTIMATED LENGTH
30 PILES OF ORDER LENGTH 13.5 METERS LONG
15 SPLICES

PIER PILES FOR RIGHT BRIDGE:
30 PILES 12 METERS LONG, ESTIMATED LENGTH
30 PILES OF ORDER LENGTH 13.5 METERS LONG
15 SPLICES

THE RESPONSIBILITY OF CHOOSING AND PROVIDING A SATISFACTORY PILE WALL THICKNESS FOR THIS PROJECT SHALL BE BORNE BY THE CONTRACTOR EXCEPT THAT THE PILE WALL THICKNESS SHALL NOT BE LESS THAN 6 mm. IF A PILE WALL THICKNESS GREATER THAN 6 mm IS NECESSARY TO RESIST THE PILE INSTALLATION DRIVING STRESS, THE CONTRACTOR SHALL MAKE THIS DETERMINATION AND SHALL FURNISH A PILE WITH AN ACCEPTABLE WALL THICKNESS. IF MONOTUBE PILE ARE USED, THE MINIMUM WALL THICKNESS SHALL BE 4.5 mm.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 6 METER SPAN, AS PER PLAN

THIS WORK SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES THAT ARE NOT SEPARATELY LISTED FOR PAYMENT. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER.

EXISTING BRIDGE RAILING SHALL BE CAREFULLY REMOVED AS INDIVIDUAL RAIL ELEMENTS BY REMOVING ALL BOLTS FROM ALL SPLICES AND POSTS. THE USE OF CUTTING TORCHES SHALL NOT BE PERMITTED. GUARDRAIL PANELS, BRIDGE POSTS, AND TUBULAR BACKUP (WITH SPLICE HARDWARE) ONLY SHALL BE STACKED ON PROJECT FOR SALVAGE BY STATE FORCES. OTHER HARDWARE, AND MATERIAL NOT SALVAGEABLE SHALL BE DISPOSED OF IN ACCORDANCE WITH SECTION 202.02 OF THE CMS.

SUBSTRUCTURE REMOVALS:

CUT LINE CONSTRUCTION JOINT PREPARATION: SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS 25 mm DEEP. REMOVE CONCRETE TO A ROUGH SURFACE, WHERE PRACTICABLE, AT LEAST 450 mm LENGTH OF THE PROTRUDING REINFORCING STEEL SHALL BE LEFT IN PLACE. INSTALL DOWEL BARS IF SPECIFIED. PRIOR TO CONCRETE PLACEMENT ABRASIVELY CLEAN JOINT SURFACE AND EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THE JOINT SURFACE AND EXPOSED REINFORCEMENT SHALL BE THOROUGHLY CLEANED OF ALL DIRT, DUST, OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. CONCRETE BONDING SURFACES SHALL BE WET WITHOUT FREE WATER AS CONCRETE IS PLACED.

SUBSTRUCTURE CONCRETE REMOVAL SHALL BE BY MEANS OF APPROVED PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL TOOLS. HYDRAULIC HOE-RAM TYPE HAMMERS WILL NOT BE PERMITTED. THE WEIGHT OF THE HAMMER SHALL NOT BE MORE THAN 16 KILOGRAM FOR REMOVAL WITHIN 450 mm OF PORTIONS TO BE PRESERVED. OUTSIDE THE 450 mm LIMIT, A HAMMER HEAVIER THAN 16 KILOGRAM, BUT NOT TO EXCEED 41 KILOGRAM, MAY BE USED AT THE APPROVAL OF THE ENGINEER. PNEUMATIC HAMMERS SHALL NOT BE PLACED IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE.

PROTECTION OF TRAFFIC:

PRIOR TO DEMOLITION OF ANY PORTIONS OF THE EXISTING SUPERSTRUCTURE, THE CONTRACTOR SHALL SUBMIT HIS PLANS FOR THE PROTECTION OF TRAFFIC (VEHICULAR, PEDESTRIAN, BOAT, ETC.) ADJACENT TO AND/OR UNDER THE STRUCTURE TO THE DIRECTOR FOR APPROVAL. THESE PLANS SHALL INCLUDE PROVISIONS FOR ANY DEVICES AND STRUCTURES THAT MAY BE NECESSARY TO ENSURE SUCH PROTECTION. TEMPORARY VERTICAL CLEARANCES SPECIFIED ON THE PLANS OR IN THE PROPOSAL SHALL BE MAINTAINED AT ALL TIMES EXCEPT AS OTHERWISE APPROVED BY THE DIRECTOR.

PAYMENT:

THIS WORK WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE BID, AND PAYMENT SHALL BE FULL COMPENSATION FOR ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE WORK IN CONFORMANCE WITH THESE REQUIREMENTS, WITH PERTINENT PROVISIONS OF 202, AND TO THE SATISFACTION OF THE ENGINEER.

ITEM SPECIAL - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

A CONCRETE SEALER SHALL BE APPLIED TO ALL EXPOSED SURFACES OF THE ABUTMENT AS SHOWN ON SHEET [2/17] AND TO PARAPETS AND CONCRETE BARRIER, TYPE D, AS PER PLAN AS SHOWN ON SHEET [4/17] AND A ONE METER WIDE AREA ON THE BRIDGE AND APPROACH SLABS CENTERED ON THE CENTERLINE OF ROADWAY AND CONSTRUCTION.

SEE PROPOSAL NOTE FOR SURFACE PREPARATION REQUIREMENTS, APPLICATION PROCEDURES AND RATES, AND MATERIAL REQUIREMENTS.

THE COLOR OF THE URETHANE SEALER SHALL BE FEDERAL COLOR STANDARD NO. 1777B (OFF-WHITE).

ITEM 503 - UNCLASSIFIED EXCAVATION, AS PER PLAN:

UNCLASSIFIED EXCAVATION SHALL BE IN ACCORDANCE WITH 503 EXCEPT THE BACKFILL MATERIAL FOR ALL EXCAVATION BEHIND ABUTMENTS SHALL BE ITEM 613 LOW STRENGTH MORTAR BACKFILL, TYPE I (LSM BACKFILL) WITHIN THE LIMITS OF THE APPROACH SLABS. THE CONTRACTOR ALSO MAY USE THE LSM BACKFILL TO CONSTRUCT THE SLOPES IN THE SAME AREA AS LONG AS IT IS COVERED WITH ONE FOOT OF SOIL TO MEET THE FINISHED GRADE. THE AREA FOR THE POROUS BACKFILL WITH FILTER FABRIC SHALL BE FORMED UP PRIOR TO THE PLACEMENT OF THE LSM BACKFILL AND THE FILTER FABRIC, AND POROUS BACKFILL SHALL BE PLACED AFTER THE LSM BACKFILL HAS BEEN CURED AND THE FORMS HAVE BEEN REMOVED.

THE COST OF ALL LABOR, EQUIPMENT, AND MATERIAL TO PLACE THE LSM BACKFILL AS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 503, UNCLASSIFIED EXCAVATION, AS PER PLAN.

CONCRETE PARAPETS:

AS SOON AS A CONCRETE SAW CAN BE OPERATED WITHOUT DAMAGING THE FRESHLY PLACED CONCRETE, 25 mm DEEP CONTROL JOINTS SHALL BE SAWED INTO THE PERIMETER OF THE CONCRETE PARAPET. THE SAW CUT SHALL BE MADE IN THE COMPLETE CIRCUMFERENCE OF THE PARAPET, STARTING AND ENDING AT THE ELEVATION OF THE CONCRETE DECK. THE SAW CUTS SHALL BE PLACED AT A MINIMUM OF 2000 mm AND A MAXIMUM OF 3000 mm CENTERS. THE USE OF AN EDGE GUIDE, FENCE, OR JIG IS REQUIRED TO INSURE THAT THE CUT JOINT IS STRAIGHT, TRUE, AND ALIGNED ON ALL FACES OF THE PARAPET. THE JOINT WIDTH SHALL BE THE WIDTH OF THE SAW BLADE, A NOMINAL WIDTH OF 6 mm. THE PERIMETER OF THE DEFLECTION CONTROL JOINT SHALL BE SEALED TO A MINIMUM DEPTH OF 25 mm WITH A CAULKING MATERIAL CONFORMING TO FEDERAL SPECIFICATION, TT-S-00227E. ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM SPECIAL, HIGH PERFORMANCE CONCRETE, SUPERSTRUCTURE (PARAPET).

ITEM 511 - CLASS C CONCRETE, PIER, AS PER PLAN

THIS IS AN ESTIMATED QUANTITY TO REPLACE DETERIORATED PORTIONS OF EXISTING CAST-IN-PLACE PIER PILES AS SHOWN ON SHEETS [1/17] AND AS DIRECTED BY THE ENGINEER.

THE EXISTING CONCRETE AT THE CONSTRUCTION JOINT AND THE EXPOSED REINFORCING STEEL SHALL BE THOROUGHLY CLEANED BY ABRASIVE BLASTING PRIOR TO THE CLEANING SPECIFIED BY 519.04 AND 520.05. CLEANING SHALL PRECEDE PLACEMENT OF CONCRETE BY NOT MORE THAN 24 HOURS.

ITEM 519 - PATCHING CONCRETE STRUCTURE, AS PER PLAN

THIS IS AN ESTIMATED QUANTITY TO PATCH EXISTING SUBSTRUCTURE AS SHOWN ON SHEETS [1/17] AND AS DIRECTED BY THE ENGINEER.

ALL SURFACES TO BE PATCHED AND THE EXPOSED REINFORCING STEEL WITHIN SHALL BE THOROUGHLY CLEANED BY ABRASIVE BLASTING PRIOR TO THE CLEANING SPECIFIED BY 519.04 AND 520.05. CLEANING SHALL PRECEDE APPLICATION OF THE PATCHING MATERIAL OR ERECTION OF THE FORMS BY NOT MORE THAN 24 HOURS.

ITEM 516 - STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN:

THIS ITEM SHALL BE FOR THE FOUR INTERMEDIATE EXPANSION JOINTS LOCATED ON SHEET [3/17] & [4/17] IN ACCORDANCE WITH STANDARD DRAWING EXJ-6-95M MODIFIED IN ACCORDANCE WITH DETAILS ON SHEET [4A/17] AND AS FOLLOWS:

PLATE "A" AND PLATE "B" SHALL BE USED ON BOTH SIDES OF JOINT TO REPLACE ANCHOR PLATE SHOWN IN STANDARD DRAWING. THE M16 THREADED RODS SHALL BE SUPPLIED WITH SLEEVE NUT, WASHERS, AND MACHINE BOLT AS DETAILED ON SHEET [4A/17] FOR ATTACHMENT TO THE FORMS FOR THE CONCRETE SLAB BRIDGE. FILL RECESSES IN BOTTOM OF SLAB FLUSH WITH BOTTOM OF SLAB WITH NON-SHRINKING MORTAR AFTER MACHINE BOLTS, WASHERS, AND FORMS ARE REMOVED.

SEQUENCE OF CONSTRUCTION

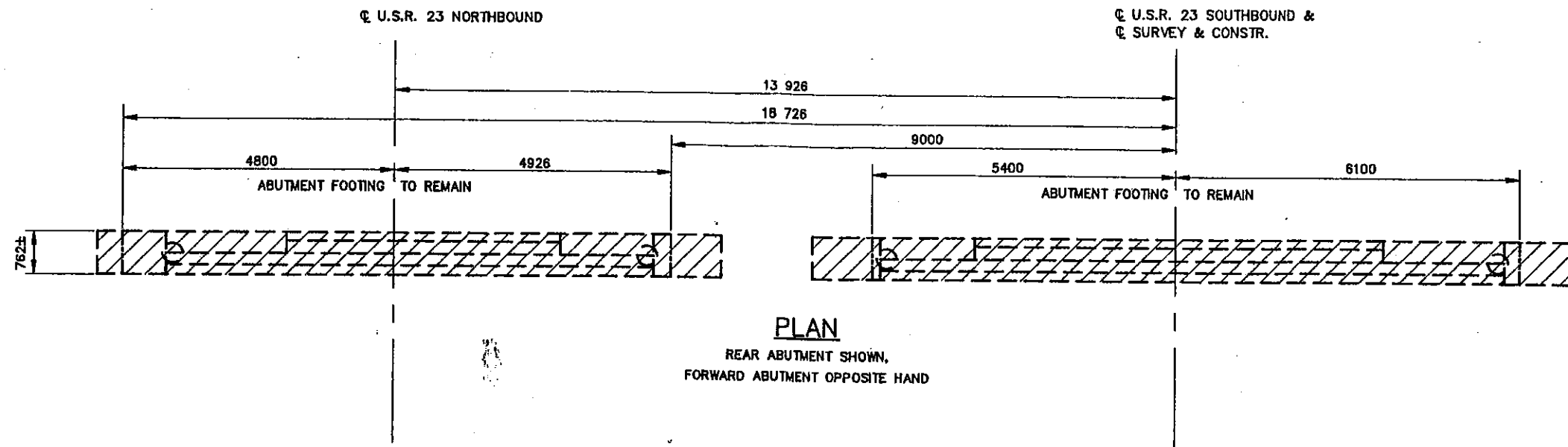
STAGE I CONSTRUCTION

- DIVERT SOUTHBOUND TRAFFIC INTO NORTHBOUND LANES IN ACCORDANCE WITH THE PHASE I MAINTENANCE OF TRAFFIC PLAN.
- REMOVE SOUTHBOUND BRIDGE DECK, PORTIONS OF ABUTMENTS (BACKWALLS, WINGWALLS, PORTIONS OF FOOTINGS), AND PORTIONS OF PIERS (PIER CAPS AND PORTIONS OF PILES).
- WIDEN AND RECONSTRUCT SOUTHBOUND ABUTMENTS AND PIERS.
- CONSTRUCT SOUTHBOUND PORTION OF REINFORCED CONCRETE SLAB SUPERSTRUCTURE, INTERMEDIATE EXPANSION JOINTS, AND APPROACH SLABS.
- INSTALL PORTABLE CONCRETE BARRIER, 813 mm, BRIDGE MOUNTED ON BRIDGE AND APPROACHES AS DETAILED ON PHASE CONSTRUCTION DETAILS ON SHEET 62 BEFORE OPENING BRIDGE TO SOUTHBOUND TRAFFIC.

STAGE II CONSTRUCTION

- DIVERT NORTHBOUND TRAFFIC INTO SOUTHBOUND LANES IN ACCORDANCE WITH THE PHASE II MAINTENANCE OF TRAFFIC PLAN.
- REMOVE NORTHBOUND BRIDGE DECK, PORTIONS OF ABUTMENTS (BACKWALLS, WINGWALLS, PORTIONS OF FOOTINGS), AND PORTIONS OF PIERS (PIER CAPS AND PORTIONS OF PILES).
- WIDEN AND RECONSTRUCT NORTHBOUND ABUTMENTS AND PIERS.
- CONSTRUCT NORTHBOUND PORTION OF REINFORCED CONCRETE SLAB SUPERSTRUCTURE, INTERMEDIATE EXPANSION JOINTS, AND APPROACH SLABS.
- MOVE NORTHBOUND TRAFFIC ONTO BRIDGE AND RESTORE BOTH THE SOUTHBOUND AND NORTHBOUND LANES TO NORMAL TRAFFIC AND MAINTAINING TRAFFIC IN ACCORDANCE WITH STANDARD DRAWINGS MT-95.31M AND MT-99.20 AS NEEDED DURING WORKING ONLYWHILE COMPLETING ALL REMAINING WORK ITEMS.

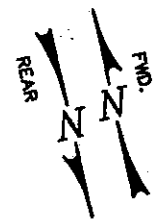
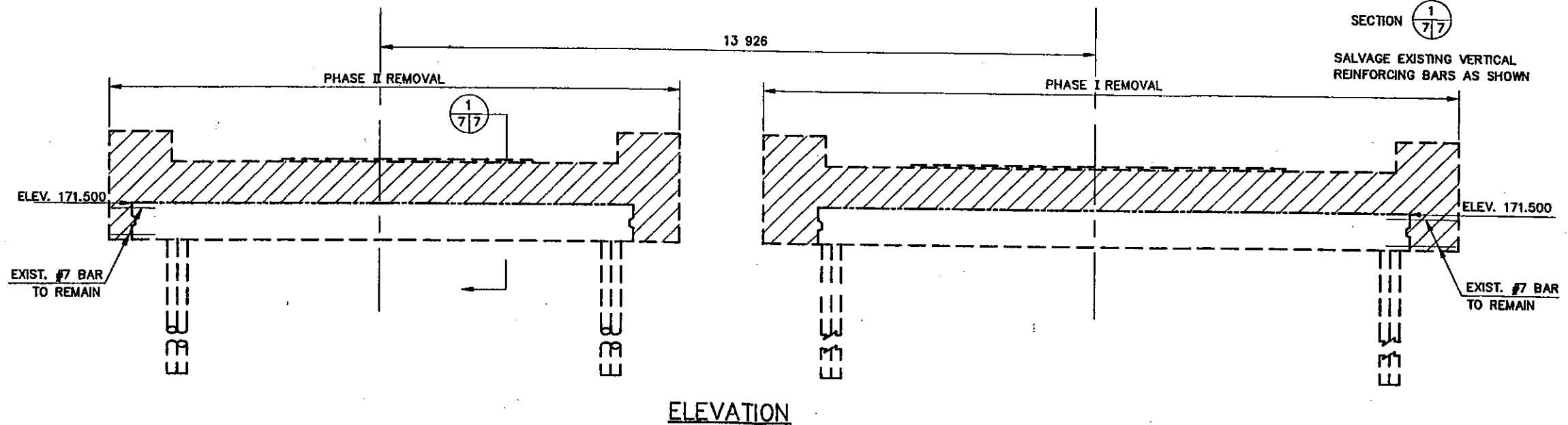
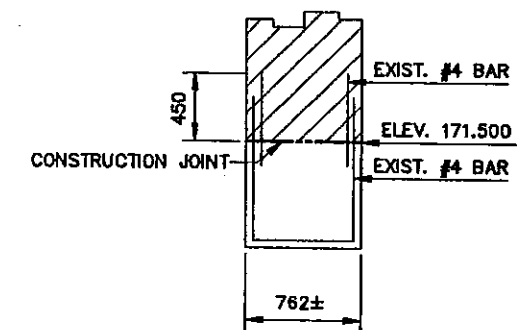
DESIGN AGENCY
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DISTRICT 9
DATE
1/14/98
LAW
STRUCTURAL DESIGN
6600464
DRAWN
GEC
REVIEWED
GEC
CHECKED
LAW
GENERAL NOTES
BRIDGE NO. PIK-23-1034 L&R
OVER PEE PEE CREEK
PIK-23-15.707/
16.625/17.477
6/17
81/117

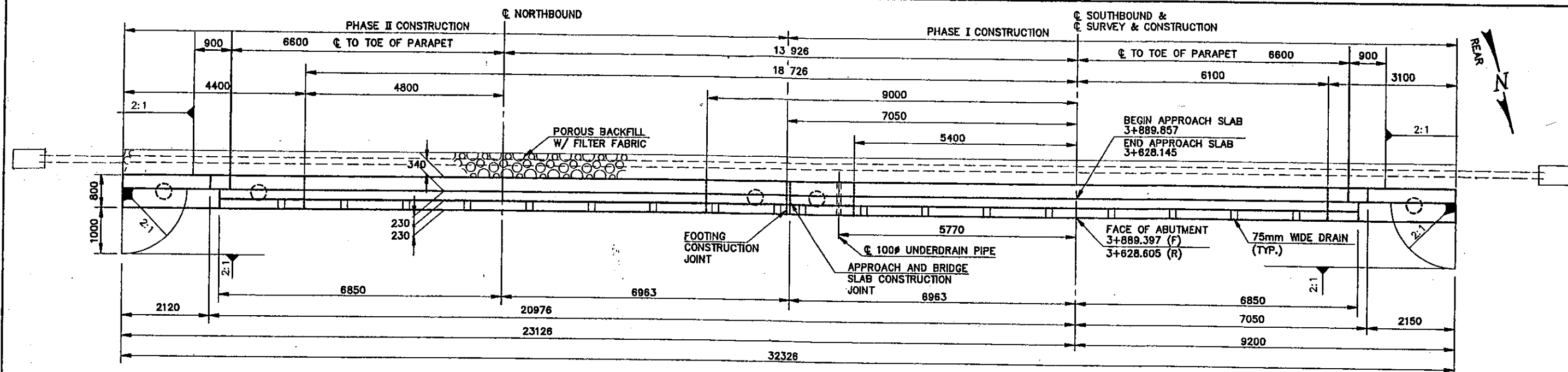


LEGEND

- CONCRETE TO BE REMOVED AS PER ITEM 202
 -REMOVAL OF CONCRETE STRUCTURES.

ALL DIMENSIONS ARE SHOWN IN MILLIMETERS,
AND ELEVATIONS ARE SHOWN IN METERS.



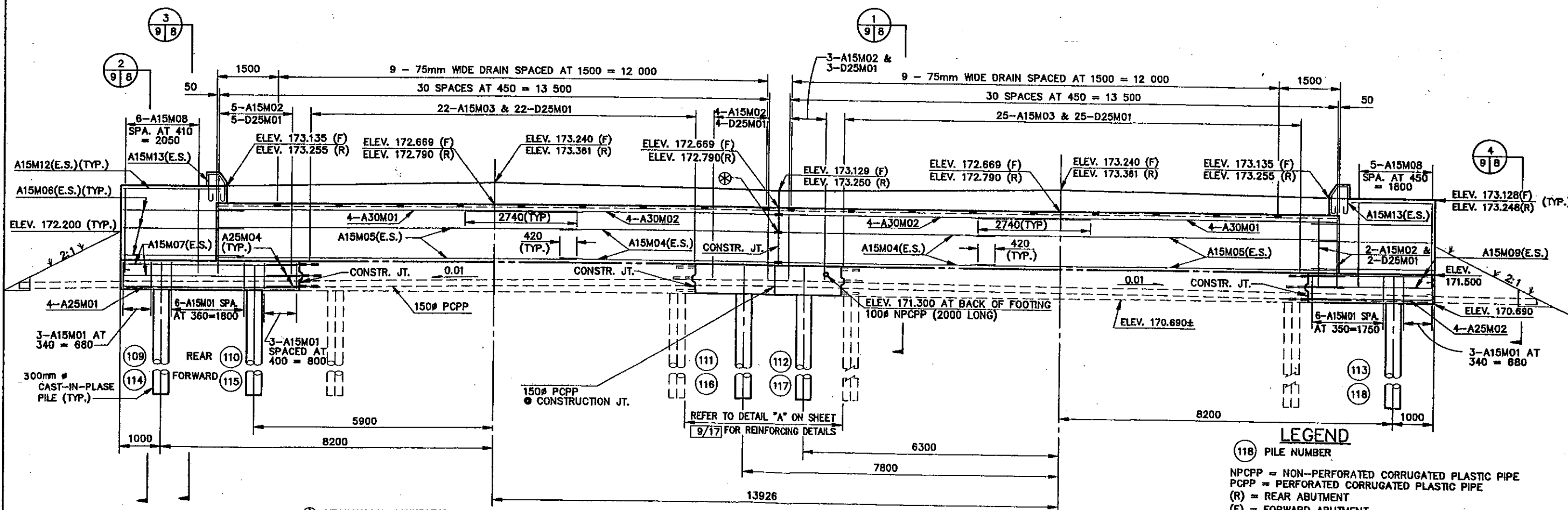


CONSTRUCTION JOINTS: BEFORE PLACEMENT OF CONCRETE, THE ROUGH CONSTRUCTION JOINT SURFACES SHALL BE THOROUGHLY CLEANED OF ALL DUST, DIRT AND OTHER FOREIGN MATTER. IF CONSIDERED NECESSARY BY THE ENGINEER, THE SURFACES SHALL BE WATER BLASTED TO ACHIEVE AN ACCEPTABLE SURFACE. PRIOR TO PLACING CONCRETE, THE BONDING SURFACES SHALL BE FLUSHED WITH CLEAR WATER AND SHALL BE WET, WITHOUT FREE WATER, WHEN CONCRETE IS PLACED.

POROUS BACKFILL: WITH FILTER FABRIC, 600 mm THICK SHALL EXTEND UP TO THE PLANE OF THE SUBGRADE, TO 300mm BELOW THE EMBANKMENT SURFACE, AND LATERALLY TO THE SURFACE OF EMBANKMENT SLOPE. GEOTEXTILE FABRIC SHALL CONFORM WITH 712.09, TYPE A. GEOTEXTILE FABRIC IS INCLUDED IN WITH POROUS BACKFILL FOR PAYMENT.

PLAN

NOTE: REAR ABUTMENT SHOWN
 FORWARD ABUTMENT IS SIMILAR
 BUT OPPOSITE HAND (MIRROR IMAGE)

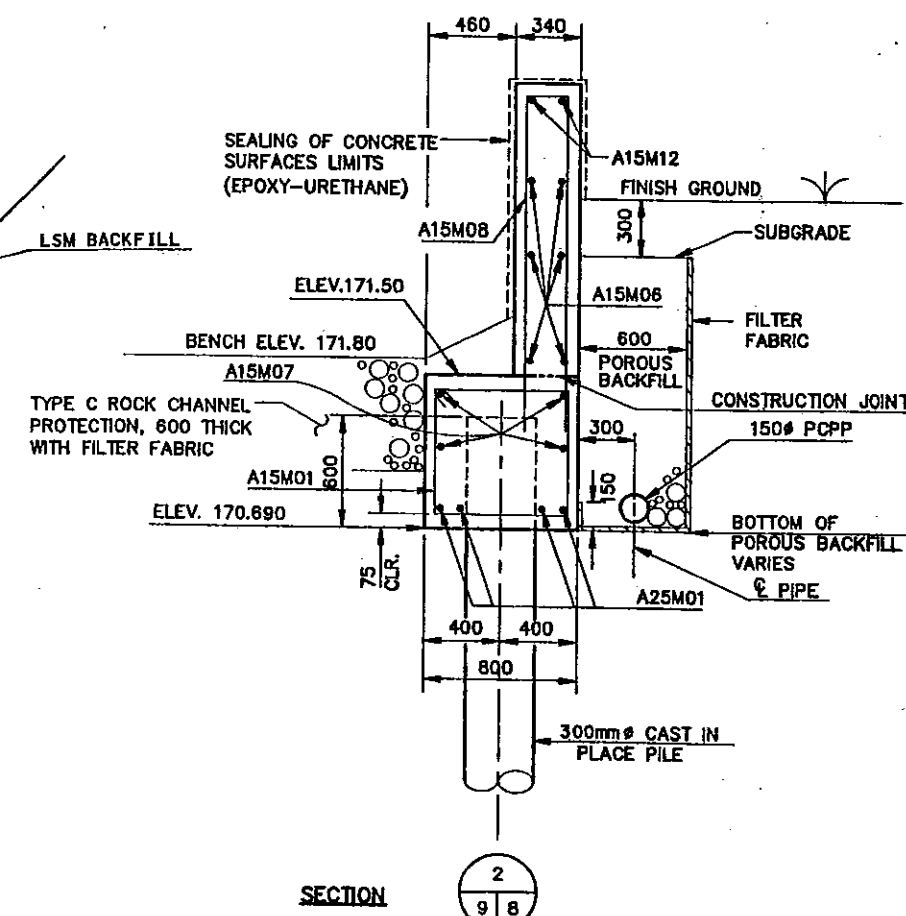
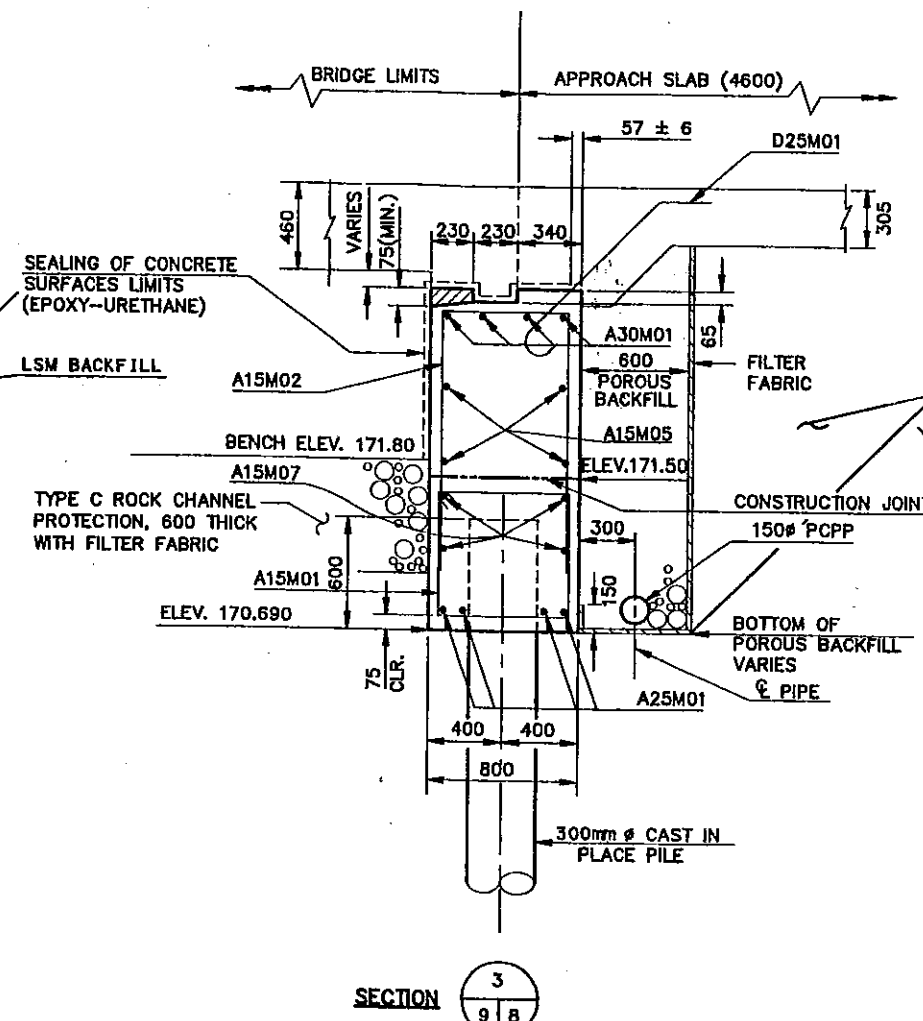
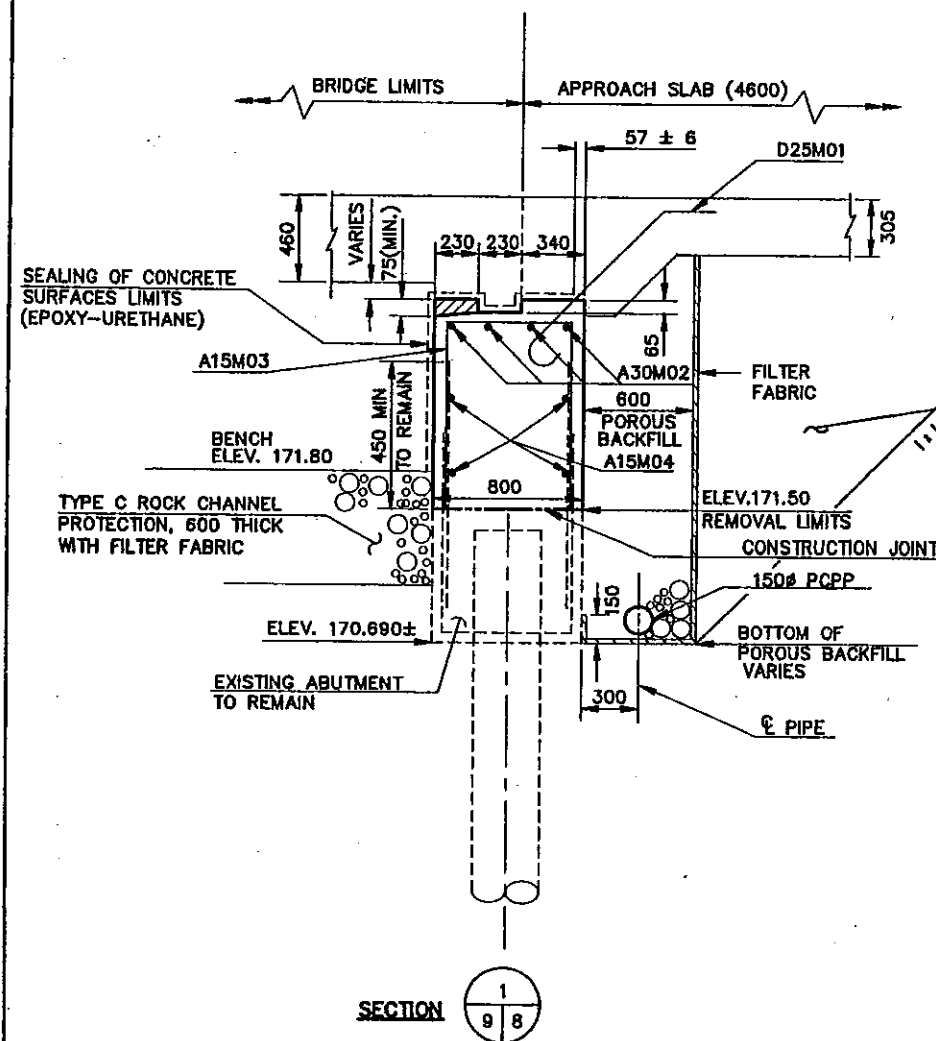


ELEVATION

SEE SHEET 9/17 KEYWAY AND DOWEL HOLE LOCATION

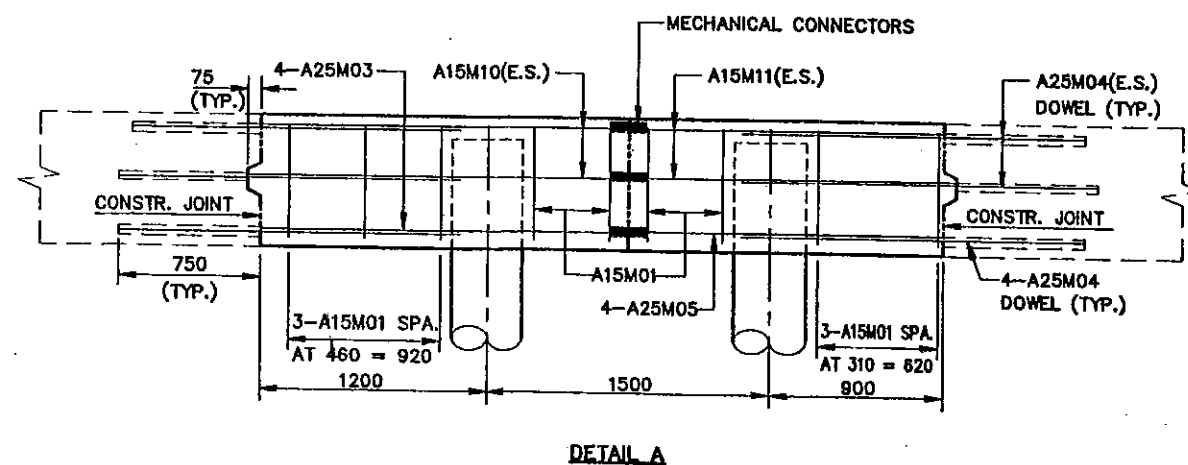
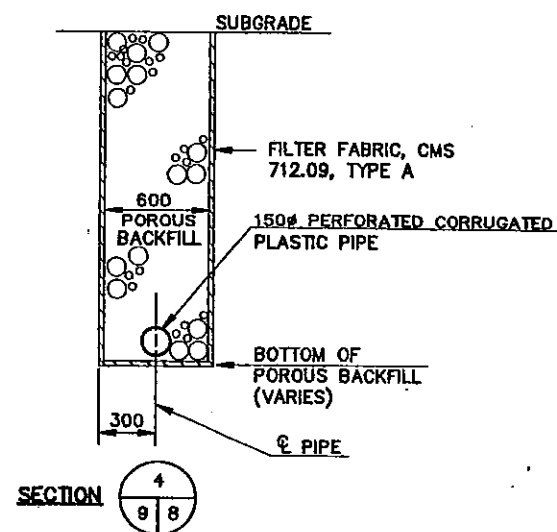
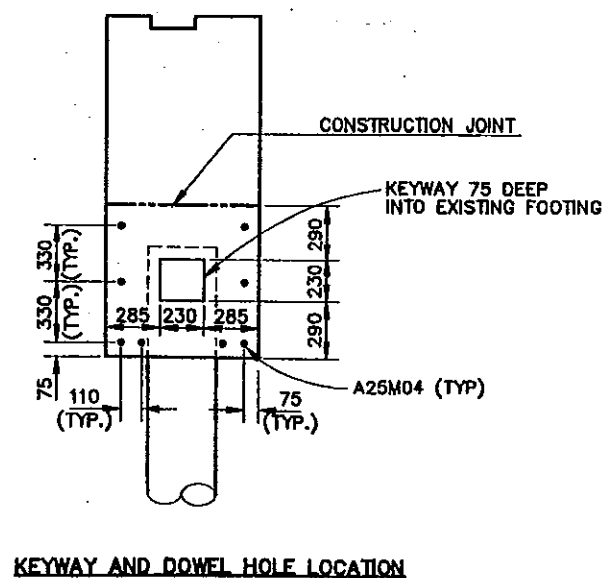
LEGEND

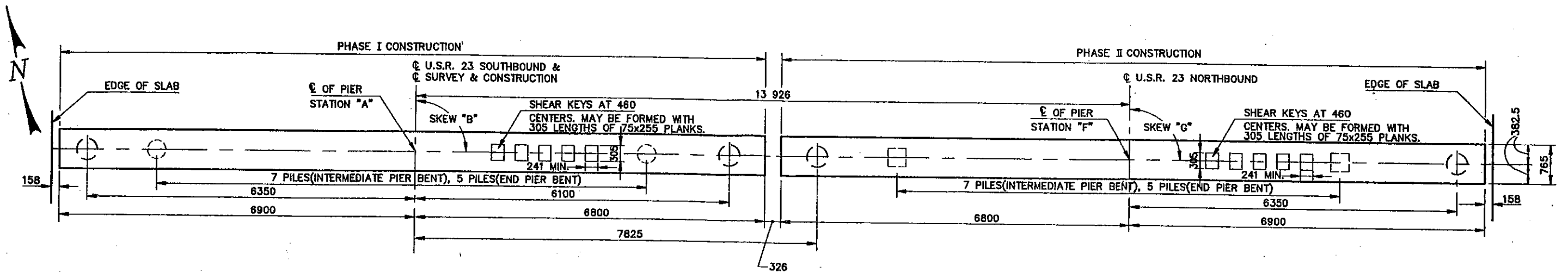
- 118 PILE NUMBER
- NPCPP = NON-PERFORATED CORRUGATED PLASTIC PIPE
- PCPP = PERFORATED CORRUGATED PLASTIC PIPE
- (R) = REAR ABUTMENT
- (F) = FORWARD ABUTMENT
- 1 SECTION NUMBER
- 2 3 SHEET ON WHICH SECTION IS REFERRED TO FIRST
- SHEET ON WHICH SECTION IS SHOWN



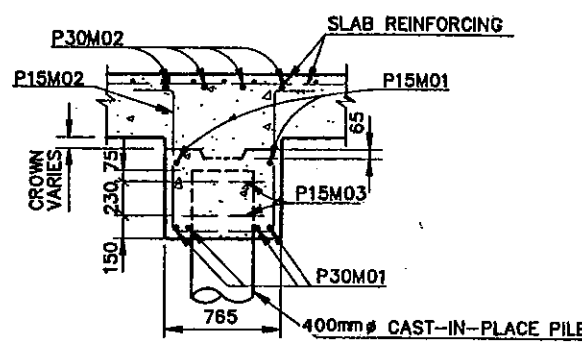
PCPP = PERFORATED CORRUGATED PLASTIC PIPE

PILE REINFORCING STEEL SHALL BE INCLUDED WITH ITEM 507 300mm CAST-IN-PLACE REINFORCED CONCRETE PILES FOR PAYMENT.

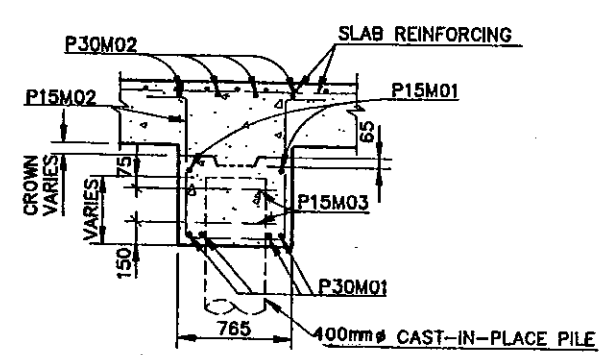




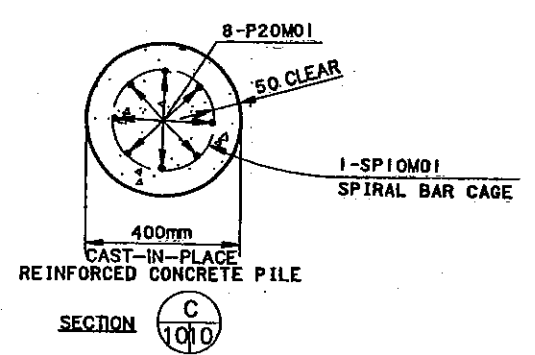
PLAN VIEW
(INTERMEDIATE PIER BENT SHOWN, END PIER BENT SIMILAR)
SEE SHEET 11/17 FOR PIER STATIONING AND SKEWS



SECTION A
10/10

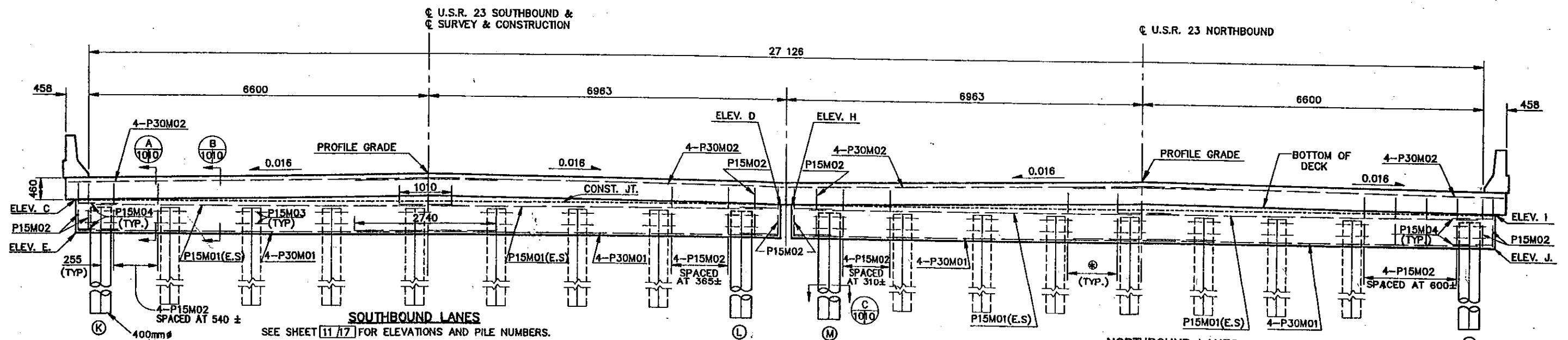


SECTION B
10/10



SECTION C
10/10

PILE REINFORCING STEEL SHALL BE INCLUDED WITH ITEM 507m
400mm CAST-IN-PLACE REINFORCED CONCRETE PILES
FOR PAYMENT.

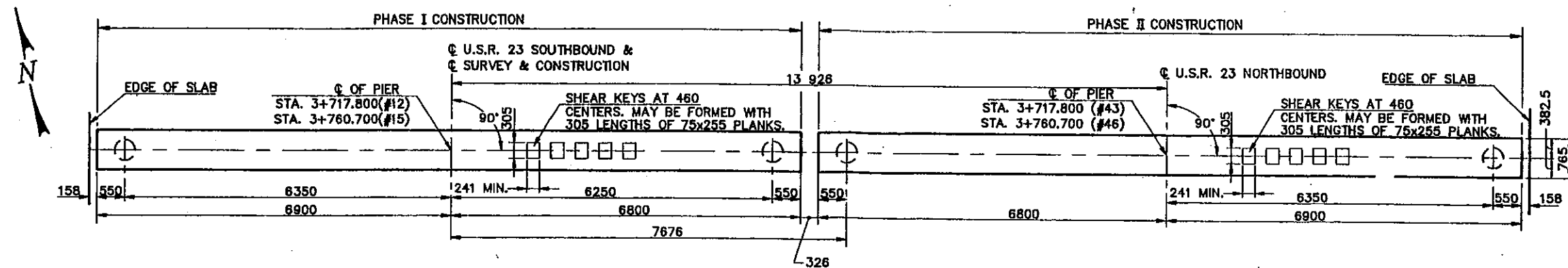


SOUTHBOUND LANES
SEE SHEET 11/17 FOR ELEVATIONS AND PILE NUMBERS.
REINFORCING STEEL IN PILES NOT SHOWN
SEE SECTION C FOR REINFORCING STEEL IN PILES

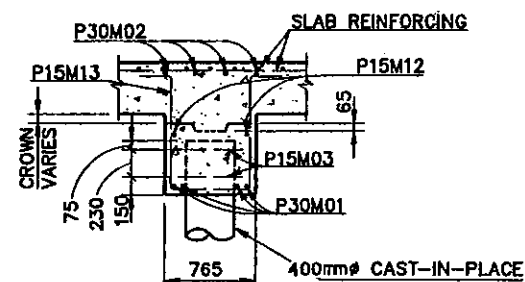
NORTHBOUND LANES
SEE SHEET 11/17 FOR ELEVATIONS AND PILE NUMBERS.
REINFORCING STEEL IN PILES NOT SHOWN
SEE SECTION C FOR REINFORCING STEEL IN PILES

- ⊗ 4-P15M02 SPACED AT 320± BETWEEN EXISTING PILE (INTERMEDIATE PIER BENT) - NORTHBOUND
- ⊗ 4-P15M02 SPACED AT 370± BETWEEN EXISTING PILE (INTERMEDIATE PIER BENT) - SOUTHBOUND
- ⊗ 6-P15M02 SPACED AT 340± BETWEEN EXISTING PILE (END PIER BENT)

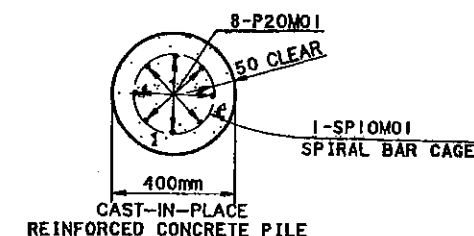
ALL DIMENSIONS ARE SHOWN IN MILLIMETER



PLAN

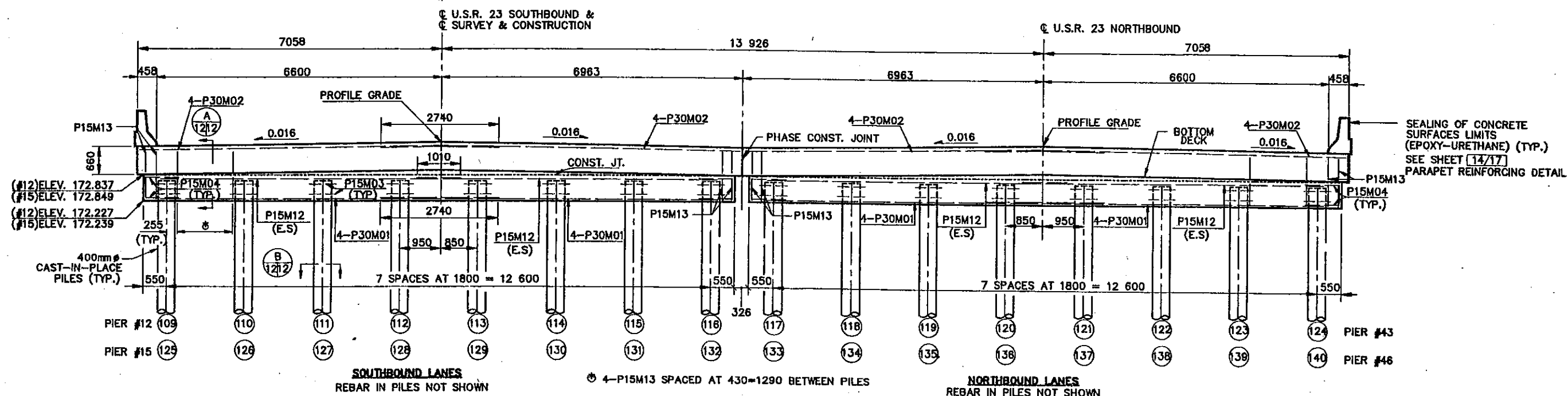


SECTION A
12/12



SECTION B
12/12

PILE REINFORCING STEEL SHALL BE INCLUDED WITH ITEM 507 - 400mm CAST-IN-PLACE REINFORCED CONCRETE PILES FOR PAYMENT.

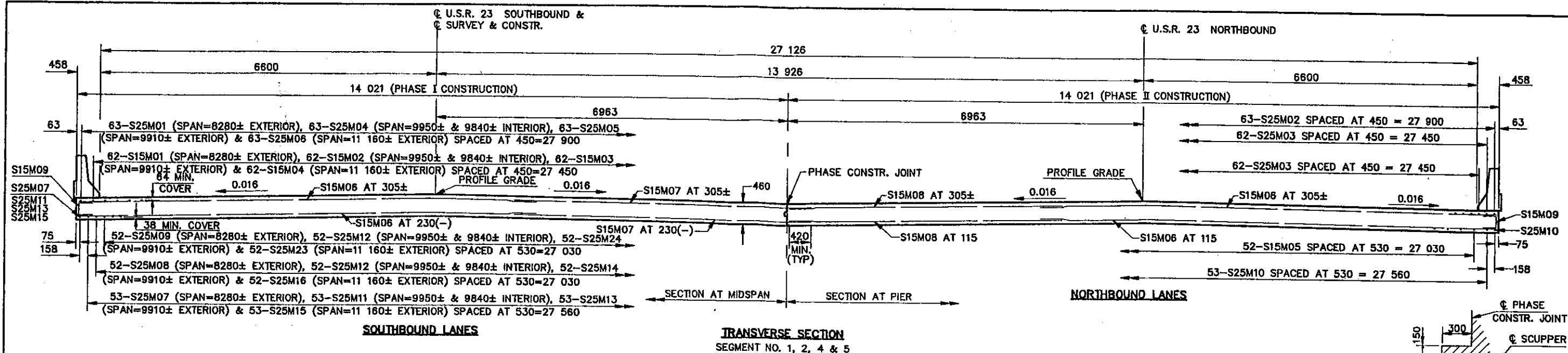


ELEVATION
PIER #12 & #15

109 PILE NUMBER

ELEVATION
PIER #43 & #46

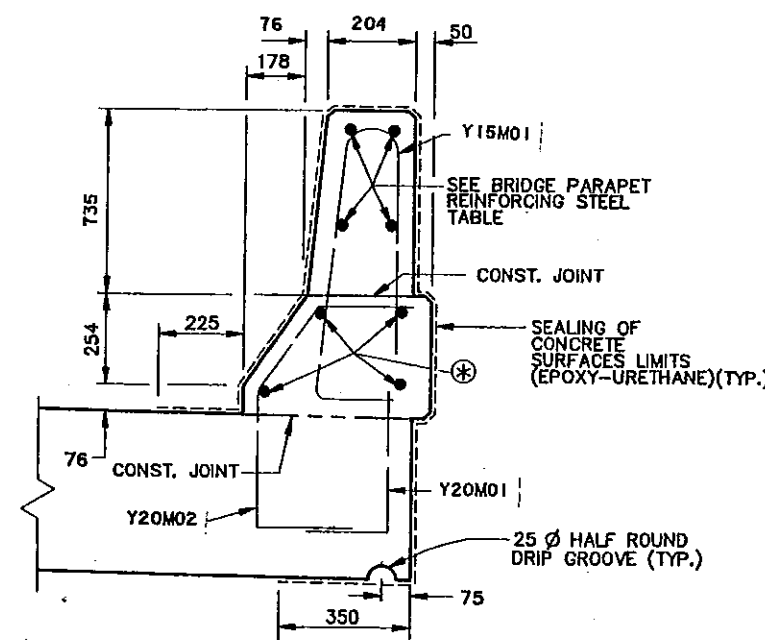
ALL DIMENSIONS ARE SHOWN IN MILLIMETER AND ELEVATIONS ARE IN METERS.



TRANSVERSE REINFORCEMENT(TOP)	
SEGMENT NUMBER	NO. OF ROWS FOR S15M06, S15M07 & S15M08
ONE	92
TWO & FOUR	199
FIVE	222

EXPANSION JOINT	
LOCATION	STATION AT E OF JOINT
JOINT 1	3+856.130
JOINT 2	3+716.610
JOINT 3	3+761.890
JOINT 4	3+822.310

FINISHED DECK ELEVATION TABLE (METERS)					
LOCATION	TOE OF PARAPET (6600 LT.)	SOUTHBOUND PROFILE GRADE	PHASE CONSTR. JOINT(6963 RT.)	NORTHBOUND PROFILE GRADE(13 926 RT.)	TOE OF PARAPET (20 526 RT.)
3+628.605	173.255	173.361	173.249	173.361	173.255
3+632.000	173.270	173.376	173.264	173.376	173.270
3+641.000	173.308	173.413	173.302	173.413	173.308
3+650.000	173.342	173.448	173.337	173.448	173.342
3+661.000	173.380	173.486	173.375	173.486	173.380
3+671.000	173.411	173.517	173.405	173.517	173.411
3+681.000	173.438	173.543	173.432	173.543	173.438
3+690.000	173.459	173.564	173.453	173.564	173.459
3+701.000	173.480	173.586	173.474	173.586	173.480
3+710.000	173.494	173.600	173.488	173.600	173.494
3+717.800	173.504	173.609	173.498	173.609	173.504
3+724.450	173.510	173.616	173.504	173.616	173.510
3+731.100	173.515	173.621	173.509	173.621	173.515
3+739.250	173.519	173.624	173.513	173.624	173.519
3+747.400	173.520	173.625	173.514	173.625	173.520
3+754.050	173.519	173.624	173.513	173.624	173.519
3+760.700	173.516	173.622	173.510	173.622	173.516
3+767.000	173.512	173.618	173.506	173.618	173.512
3+778.000	173.501	173.607	173.495	173.607	173.501
3+788.000	173.488	173.593	173.482	173.593	173.488
3+798.000	173.470	173.576	173.464	173.576	173.470
3+808.000	173.449	173.554	173.443	173.554	173.449
3+818.000	173.424	173.529	173.418	173.529	173.424
3+828.000	173.395	173.500	173.389	173.500	173.395
3+838.000	173.362	173.468	173.356	173.468	173.362
3+848.000	173.326	173.431	173.320	173.431	173.326
3+856.000	173.294	173.400	173.288	173.400	173.294
3+868.000	173.242	173.347	173.236	173.347	173.242
3+877.000	173.199	173.304	173.193	173.304	173.199
3+886.000	173.153	173.258	173.147	173.258	173.153
3+889.397	173.135	173.240	173.129	173.240	173.135

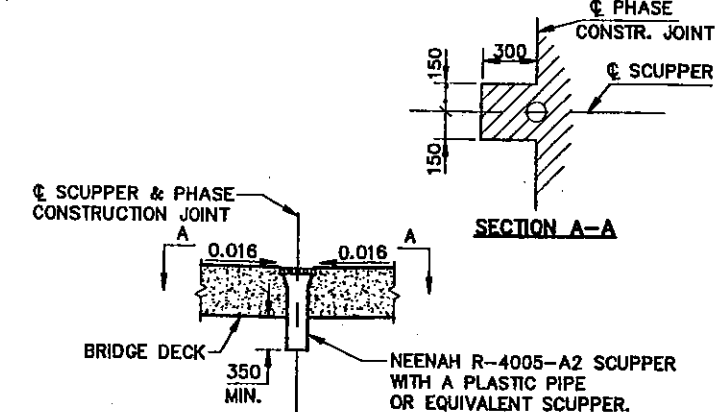


PARAPET REINFORCING DETAIL
 @X15M01 LAP WITH X15M02 (SEGMENT 1)
 X15M01 LAP WITH X15M03 (SEGMENT 2 & 4)
 X15M01 LAP WITH X15M13 (SEGMENT 3)
 X15M01 LAP WITH X15M14 (SEGMENT 5)
 LAP LENGTH FOR X15M BARS = 420

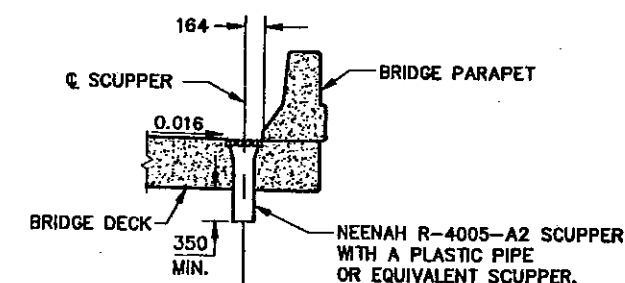
SEE STD. DWG. BR-1M FOR ADDITIONAL NOTES AND DETAILS

BRIDGE PARAPET REINFORCING STEEL TABLE			
DEFLEC. JT. SPACING	BAR MARK	NO. OF Y20M01, Y20M02 & Y15M01	SPACING FOR Y20M01, Y20M02 AND Y15M01
4300	X15M04	11	420
4000	X15M05	11	390
1800	X15M06	5	425
1707.5	X15M07	5	400
1685	X15M08	5	395
1611	X15M09	5	375
1560	X15M10	5	365
1445	X15M11	4	445
1230	X15M12	4	375

ALL DIMENSIONS ARE SHOWN IN MILLIMETER AND ELEVATIONS ARE IN METERS.

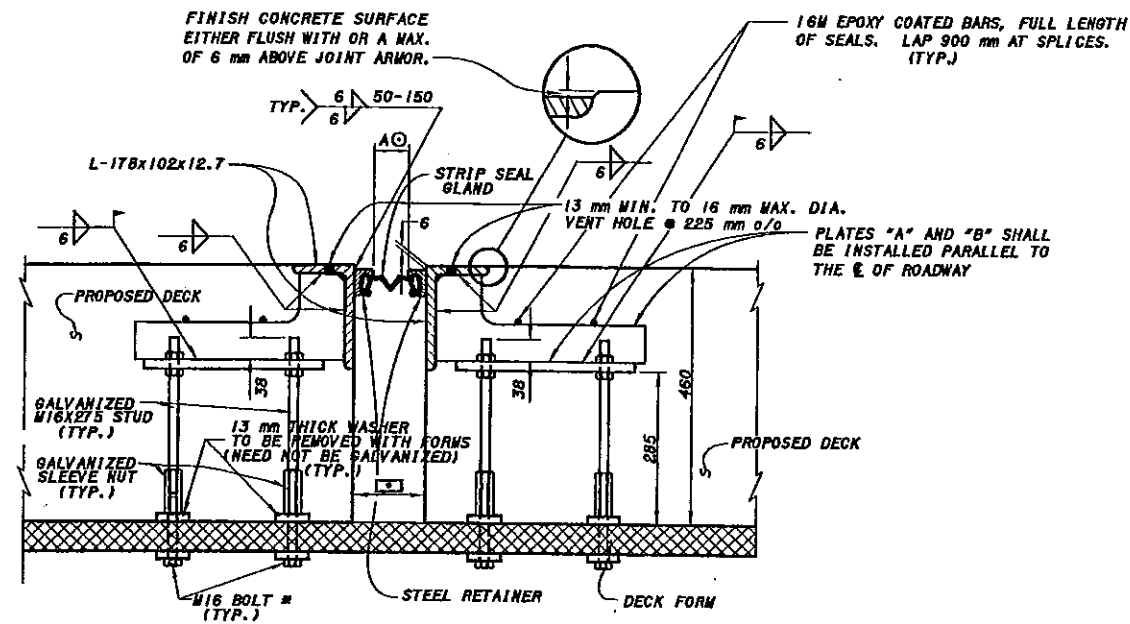


MEDIAN SCUPPER DETAIL



PARAPET SCUPPER DETAIL

LOCATION OF SCUPPERS PIK-23-16641			
LOCATION	STATION (METER)	SIDE	OFFSET
PARAPET	3+641	LT.	6436
MEDIAN	3+641	RT.	6693
PARAPET	3+641	RT.	20 362
PARAPET	3+720	LT.	6436
MEDIAN	3+720	RT.	6693
PARAPET	3+720	RT.	20 362
PARAPET	3+885	LT.	6436
MEDIAN	3+885	RT.	6693
PARAPET	3+885	RT.	20 362
PARAPET	3+837	LT.	6436
MEDIAN	3+837	RT.	6693
PARAPET	3+837	RT.	20 362
PARAPET	3+777	LT.	6436
MEDIAN	3+777	RT.	6693
PARAPET	3+777	RT.	20 362



INTERMEDIATE EXPANSION JOINT DETAIL

NOTE: THE JOINT ASSEMBLY SHALL BE PLACED SO THAT THE 178x102x12.7 ANGLES REMAIN PARALLEL TO EACH OTHER AND PERPENDICULAR TO THE ROADWAY GRADIENT.

- ⊙ - DIMENSION "A" SHALL BE DETERMINED FROM TABLE 1-1.
- ⊠ - THIS DIM. IS THE SUM OF (2 X RETAINER WIDTH + DIM. "A")
- * - LENGTH TO BE DETERMINED BY THE CONTRACTOR
- SEE STD. DWG. EXJ-6-95M FOR NOTES AND DETAILS NOT SHOWN

TABLE 1-1	
TEMPERATURE (°C)	REQUIRED JOINT OPENING (mm)
0	51
5	45
10	42
15	38
20	33
25	28
30	24
35	20

