(1)FD 51mm & (6)FD 102mm
(AATF)(DATUM)

PT 403+782.734

403+800

403+500

℄ PIER 5D-5 (RADIAL)
STA. 403+103.927
(℄ RAMP D)

℄ PIER 5D-4 (RADIAL)
STA. 403+105.468
(℄ RAMP D)

℄ PIER 5D-1
STA. 403+506.533
(℄ RAMP D1)

℄ PIER 5D-2
STA. 403+515.201
(℄ RAMP D1)

℄ PIER 5D-3
STA. 403+523.869
(℄ RAMP D1)

℄ PIER 5D-8
STA. 403+143.642
(℄ RAMP D)

℄ PIER 5D-9
STA. 403+169.071
(℄ RAMP D P.G.L.)

℄ PIER 5D-10
STA. 403+196.727
(℄ RAMP D P.G.L.)

403+200

MATCH LINE SEE SHEET 2 OF 4

MATCH LINE SEE SHEET 3 OF 4

1/4	CITY OF CINCINNATI CONTRACT No. 75X5753	CONTRACT 14 UTILITIES	DATE 12/01/99 CHECKED	NOT TO SCALE	N

FORT WASHINGTON WAY 2000

CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING

PROPOSED IMPROVEMENT

FORT WASHINGTON WAY RECONSTRUCTION PROGRAM CONTRACT 14

RAMPS D AND D1
C.W. BAILEY TO SECOND STREET

metric units

PROJECT DESCRIPTION

Contract # 14: Ramp D -
Construct new Bridge #5 - Clay Wade Bailey Bridge to Second Street.

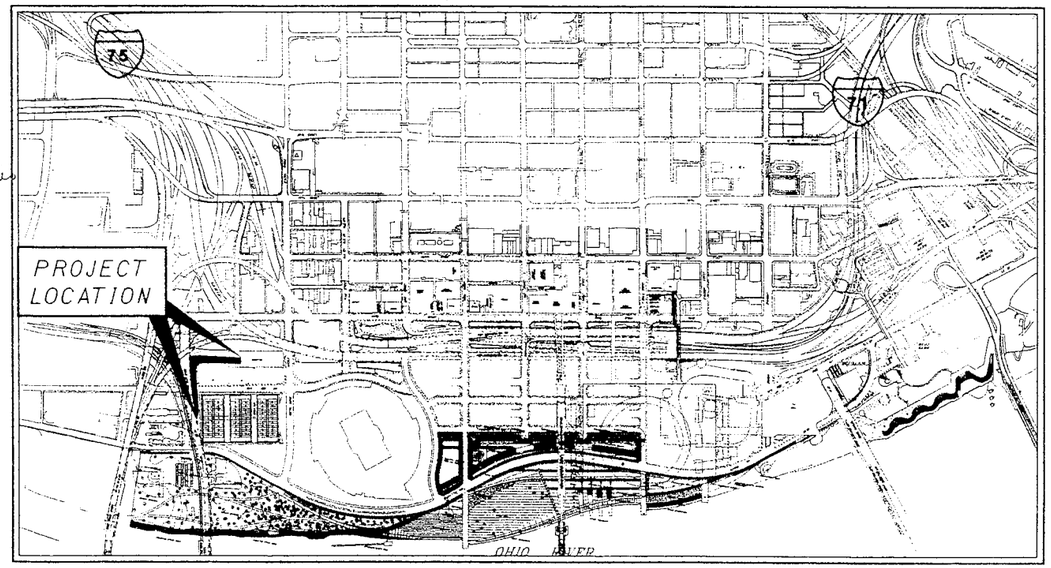
CAUTION UNDERGROUND UTILITIES
2 WORKING DAYS
BEFORE YOU DIG
CALL 1-800-362-2764
OHIO UTILITY PROTECTION SERVICE
CALL NON-SERVICE FACILITY
OWNERS DIRECT

STATE OF OHIO JAMES DANIEL CARRIER E-035661 REGISTERED PROFESSIONAL ENGINEER

Please see Contract Specifications document for job-tailored Special Provisios.

DESIGN DESIGNATION

	Ramp D
Current ADT (2000)	-----
Design year ADT (2020)	2,650
Design hourly volume (2020)	790
Directional distribution	100%
Trucks (24 hour B&C)	4%
Design speed	50 km/hr
Legal speed	30 mph
Design functional classification	Urban Arterial



LOCATION MAP

STANDARD CONSTRUCTION DRAWINGS					SUPPLEMENTAL SPECIFICATION
TRAFFIC	LIGHTING		STRUCTURES		
MT-35.10M	HL-10.11M	05/01/95	BR-1M	01/06/99	
MT-35.11M	HL-10.12M	05/01/95	EXJ-2-81M	02/14/97	
MT-95.31M	HL-10.13M	05/01/95	GSD-1-96M	11/21/97	
MT-95.41M	HL-20.14M	05/01/95	HL-20.15M	03/31/95	
MT-98.19M	HL-20.15M	03/31/95	EXJ-G-95M	10/10/95	
MT-99.10M	HL-50.21M	08/31/94	PSID-1-95M	09/10/95	
MT-99.20M	HL-60.11M	05/01/95	SD-1-69	6/12/69	
MT-105.10M	HL-60.31M	03/31/95			
MT-105.11M	ES-3-6	3/4/99			
MT-110.10M	ES-10-1	3/4/99			
TC-41.40M					
TC-41.20M					
TC-42.20M					
TC-52.10M					
TC-52.20M					
TC-71.10M					

LIMITED ACCESS

This improvement is especially designed for through traffic and has been declared a Limited Access Highway or Freeway by action of the director in accordance with the provisions of section 5511.02 of the revised code of Ohio.

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.

RECOMMENDED _____
DATE 11/24/99 PRINCIPAL GENERAL DESIGN ENGINEER

RECOMMENDED _____
DATE 11-23-99 PRINCIPAL HIGHWAY ENGINEER

RECOMMENDED _____
DATE 11-24-99 PRINCIPAL STRUCTURAL ENGINEER

RECOMMENDED _____
DATE 11/24/99 PRINCIPAL CONSTRUCTION ENGINEER

APPROVED _____
DATE 11-29-99 CITY TRAFFIC ENGINEER

APPROVED Robert is with another
DATE 11-29-99 CITY ARCHITECT

APPROVED _____
DATE 11-24-99 CITY ENGINEER

APPROVED _____
DATE 29 NOV 99 DIRECTOR OF TRANSPORTATION AND ENNGINEERING

Plans Prepared For:

City of Cincinnati
Engineering Division
Department of Public Works

Plans Prepared By:

PB 100 YEARS

PARSONS BRINCKERHOFF OHIO, INC.
312 ELM STREET
SUITE 2500
CINCINNATI, OHIO 45202-2720

FEDERAL PROJECT NO.

PID NO.

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT
NONE

CITY OF CINCINNATI
CONTRACT NO. 75x5763

MATCH LINE SEE SHEET 1 OF 4

102mm
305mm
914mm
(2)TD (FO)
(10)FD 115mm
(12)E-DUCT
(1)TD (FO)
(2)TD
(1)PD 102mm(FO)
254mm
102mm W/DATUR)
1(2)E-DUCT
℄ PIER 50-3
STA. 403+067.557
℄ PIER 50-2
STA. 403+029.779
POT 403+021.776
POT 402+999.071

MATCH LINE SEE SHEET 4 OF 4

PB 100 YEARS

NOT TO SCALE

DATE 12/01/99
CHECKED

CONTRACT 14 UTILITIES

CITY OF CINCINNATI
CONTRACT No. 75X5753

2/4

12/01/99 Wed Dec 12:04:29 1999 I:\BYERS_PRF\SOLUS4\PLOT\utill402.prf

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Overall Sheet No	Title
1	Cover Sheet
2	Roadway Index Sheet
3	Schematic Plan
4	Alignment Tabulation
5	General Notes
6	M.O.T. - Ramp D
7	Storm Water Pollution Prevention Plan
8	General Summary
9	Plan and Profile - Ramp D, 1 of 2
10	Plan and Profile - Ramp D, 2 of 2
11	Plan and Profile - Ramp D1
12	Plan and Profile - Interim Stage
13	Superelevation Plan
14	Superelevation Tables
15	Intersection Details
16	Drainage Subsummary
17	Scupper Location Plan, 1 of 2
18	Scupper Location Plan, 2 of 2
19	Drainage Details-Scupper Downspouts, 1 of 4
20	Drainage Details-Scupper Downspouts, 2 of 4
21	Drainage Details-Scupper Downspouts, 3 of 4
22	Drainage Details-Scupper Downspouts, 4 of 4
23	Drainage Details-Scuppers
24	Drainage Details
25	Traffic Signal Plan
26	Not Used
27	Signing and Pavement Marking Plan
28	Signing and Pavement Marking Plan-Interim Stage
29	Lighting Index Sheet
30	Lighting - General Notes
31	Lighting - General Summary
32	Not Used
33	Lighting Plan
34	Lighting Detail Sheet

PB 100 YEARS

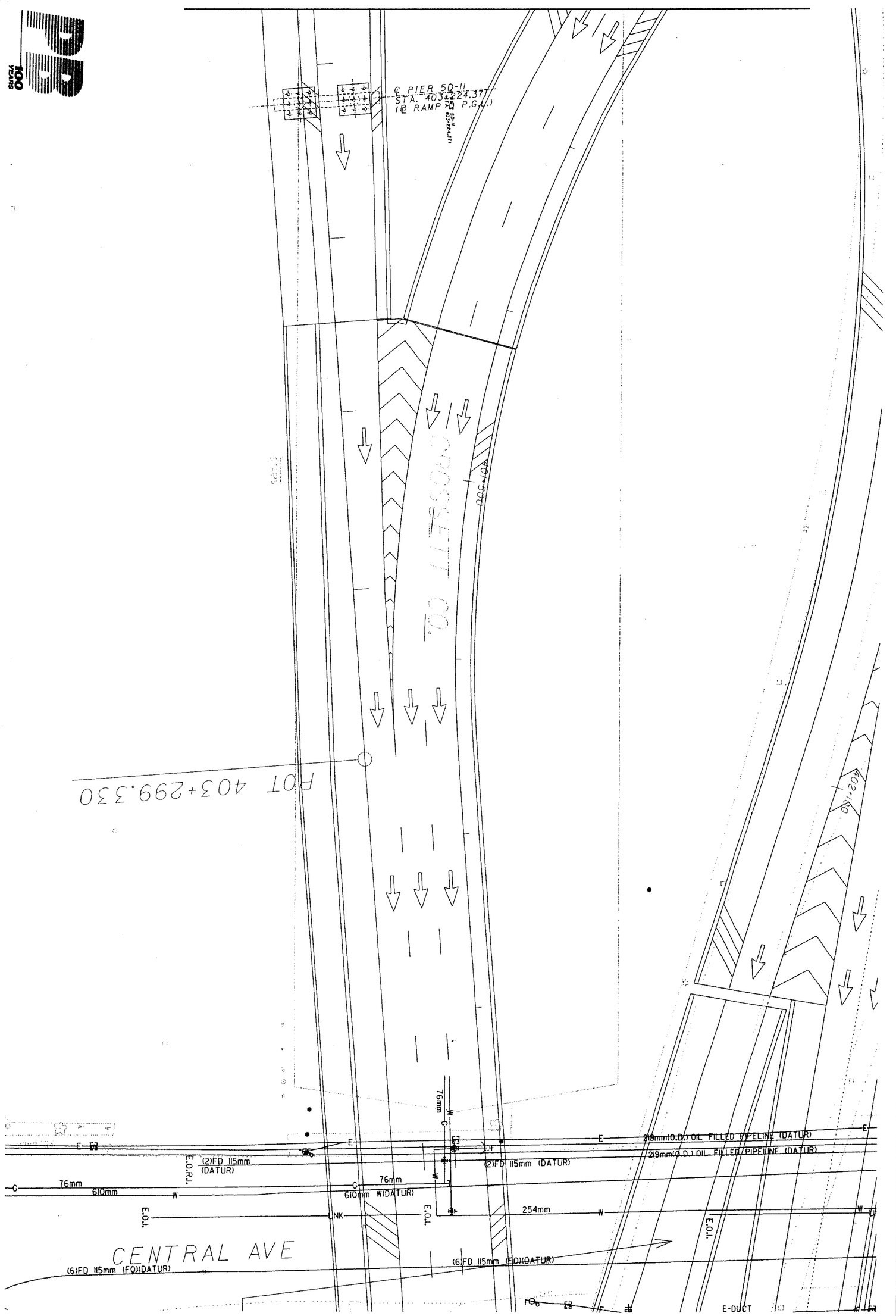
DESIGN AGENCY
PB
PARSONS BRINCKERHOFF INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

DATE 12/01/99
CHECKED MY

ROADWAY INDEX SHEET

CITY OF CINCINNATI
CONTRACT No. 75X5753

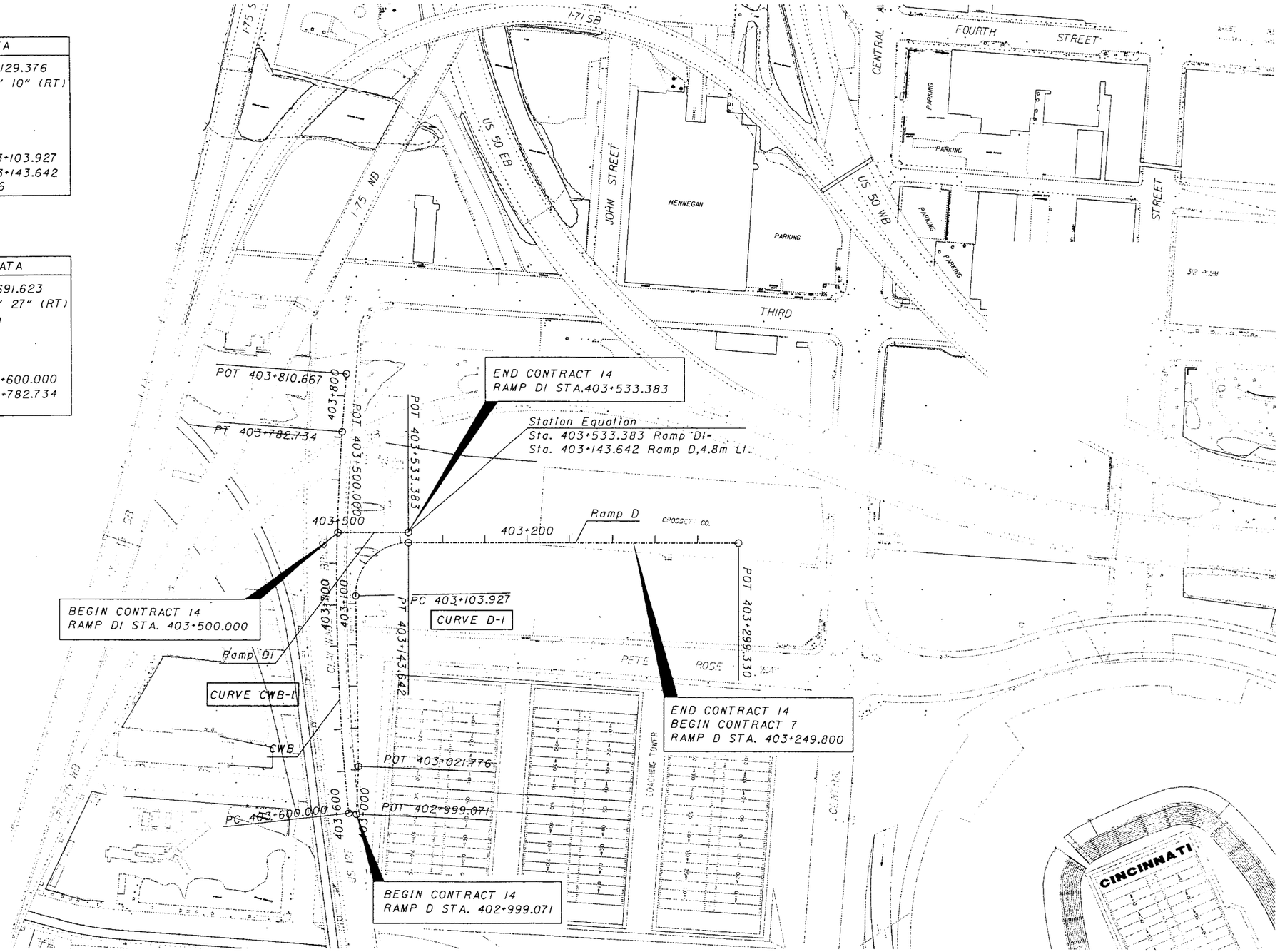
MATCH LINE SEE SHEET 1 OF 4



3/4	CITY OF CINCINNATI CONTRACT No. 75X5753	CONTRACT 14 UTILITIES	DATE 12/01/99 CHECKED	NOT TO SCALE	N

CURVE D-1 DATA
P.I. Sta. 403+129.376
Delta = 91° 01' 10" (RT)
R = 25.000 m
T = 25.449 m
L = 39.715 m
E = 10.674 m
P.C. Sta. 403+103.927
P.T. Sta. 403+143.642
e (max.) = 0.016

CURVE CWB-1 DATA
P.I. Sta. 403+691.623
Delta = 10° 29' 27" (RT)
R = 998.000 m
T = 91.623 m
L = 182.734 m
E = 4.197 m
P.C. Sta. 403+600.000
P.T. Sta. 403+782.734



DESIGN AGENCY
PB PARSONS BRINCKERHOFF INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

SCALE IN METERS
0 10 20 30 40 50

DATE 12/01/99
CHECKED MY

SCHEMATIC PLAN

CITY OF CINCINNATI
CONTRACT No. 75X5753

3
125

PB 100 YEARS

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4 of 4	CITY OF CINCINNATI CONTRACT No. 75X5753	CONTRACT 14 UTILITIES	DATE 12/01/99 CHECKED	NOT TO SCALE	N

ALIGNMENT TABULATION

CURVE NO.	POINT	STATION	CURVE DATA				COORDINATES		AZIMUTH
			DELTA	RADIUS	TANGENT	LENGTH	E	N	
Ramp D									
	POT	402+999.071					425,213.581	123,528.612	N 11° 31' 14" W
	POT	403+021.776					425,209.046	123,550.859	N 14° 58' 13" W
	PC	403+103.927					425,187.825	123,630.222	N 14° 58' 13" W
D1	PI	403+129.376	91° 01' 10" RT	25.000	25.449	39.715	425,181.251	123,654.807	
	CC						425,211.976	123,636.680	
	PT	403+143.642					425,205.949	123,660.943	N 76° 02' 57" E
	POT	403+299.330					425,357.045	123,698.477	
Ramp D1									
	POT	403+500.000					425,172.394	123,657.553	N 76° 02' 57" E
	POT	403+533.383					425,204.792	123,665.601	

PB 100 YEARS

UTILITIES

LISTED BELOW ARE THE UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

CINCINNATI GAS & ELECTRIC COMPANY
P.O. BOX 960 ROOM M 50 M
CINCINNATI, OH 45202
1-800-262-3000 EXT. 2522

CINCINNATI GAS & ELECTRIC COMPANY
P.O. BOX 960 ROOM 460
CINCINNATI, OH 45201
(513) 632-2733

CINCINNATI BELL TELEPHONE
201 E. 4TH ST., (102/280)
CINCINNATI, OH 45202
(606) 344-7038

MCI TELECOMMUNICATIONS CORPORATION
2270 LAKESIDE BOULEVARD
RICHARDSON, TX 75082
(972) 918-1449
(513) 665-5779 BILL FRANK

CITY OF CINCINNATI
TRAFFIC ENGINEERING DIVISION
705 CENTRAL AVE., SUITE 250
CINCINNATI, OH 45202
(513) 352-3705

METROPOLITAN SEWER DISTRICT
1600 GUEST STREET
CINCINNATI, OH 45204
(513) 244-1354

CINCINNATI WATER WORKS
4747 SPRING GROVE AVE
CINCINNATI, OH 45232
(513) 352-4636

WARNER CABLE COMMUNICATIONS, INC.
6709 VAN KIRK AVE.
CINCINNATI, OH 45216
(513) 761-2943

STORMWATER MANAGEMENT DIVISION
CITY OF CINCINNATI
705 CENTRAL AVE., SUITE 400
CINCINNATI, OH 45202
(513) 352-1945

TELECOMMUNICATIONS DIVISION
1430 MARTIN DRIVE
CINCINNATI, OH 45202
(513) 352-6201

TRW
ARTIMIS OCC
508 WEST THIRD STREET
CINCINNATI, OH 45202
(513) 564-6100 / FAX (513) 564-6127

TOM KLUG
OHIO DEPARTMENT OF TRANSPORTATION
505 SOUTH S.R. 471
LEBANON, OH 45036-9518
1-(800)-831-2142 / FAX (513) 932-7651

PIPE SIZE

THE METRIC EQUIVALENT SIZE MAY VARY WITH MATERIAL TYPE FOR THE SAME ENGLISH SIZE PIPE. THE DIFFERENCE IN SIZES SHALL NOT BE CONSTRUED AS AN EXCLUSION OF A MATERIAL TYPE.

HORIZONTAL AND VERTICAL CONTROL

THE CITY OF CINCINNATI WILL PROVIDE HORIZONTAL AND VERTICAL CONTROL TO THE CONTRACTOR.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON U.S.G.S. NORTH AMERICAN VERTICAL DATUM (NAVD) 29.

THE EXISTING CONSTRUCTION PLANS USED AS REFERENCE ARE BASED ON THE U.S.G.S NORTH AMERICAN VERTICAL DATUM (NAVD) 29.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

HAUL ROADS

THE CONTRACTOR SHALL NOTIFY THE DISTRICT DEPUTY DIRECTOR AND THE CITY OF CINCINNATI, IN WRITING, AT LEAST TEN WORKING DAYS BEFORE USING ANY STREET FOR THE PURPOSE OF HAULING MATERIAL OR EQUIPMENT TO OR FROM THE PROJECT, OF HIS INTENT TO USE THE STREETS. THE CONTRACTOR SHALL INCLUDE IN HIS REPORT THE LIMITS OF THE STREETS WITHIN WHICH HE INTENDS TO OPERATE. THE CONTRACTOR MAY NOT USE A STREET FOR HAULING PURPOSES WITHOUT APPROVAL OF THE DEPARTMENT OF TRANSPORTATION AND THE CITY MANAGER, CITY OF CINCINNATI. ALL NOTIFICATION AND REPORTS SHALL BE IN WRITING.

ALLOWABLE WORKING HOURS

THE CONTRACTOR IS PERMITTED TO WORK TWENTY-FOUR (24) HOURS PER DAY, SEVEN (7) DAYS PER WEEK SUBJECT TO CITY OF CINCINNATI NOISE ORDINANCE. IN ORDER TO REDUCE THE NOISE IMPACT ON THE SURROUNDING COMMUNITY, ANY CONSTRUCTION OR DEMOLITION ACTIVITY, OR THE OPERATION OF ANY MECHANICAL, ELECTRICAL, OR BATTERY-OPERATED APPARATUS PRODUCING LOUD SOUND WHICH DISTURBS THE PEACE AND QUIET OF RESIDENTS WITHIN 500 FEET SHALL BE PROHIBITED BETWEEN THE HOURS FROM 11:00 P.M. AND 7:00 A.M. THE FOLLOWING DAY IN ACCORDANCE WITH CITY OF CINCINNATI ORDINANCE NO. 272-1987. HOWEVER, THE CONTRACTOR MAY APPLY FOR NIGHTTIME CONSTRUCTION PERMITS, IF NECESSARY, IN ACCORDANCE WITH CITY OF CINCINNATI ORDINANCE NO. 273-1987 FOR OPERATION FROM 11:00 P.M. AND 7:00 A.M. THE FOLLOWING DAY.

MANHOLES, CATCH BASINS AND INLETS REMOVED OR ABANDONED

ALL CASTINGS SHALL BE CAREFULLY REMOVED AND STORED WITHIN THE RIGHT-OF-WAY FOR SALVAGE BY CITY FORCES.

PAYMENT FOR ALL OF THE ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 202 ITEM.

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM SHALL BE INCLUDED IN THE LUMP SUM PRICE.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE CITY, REPRESENTATIVES OF THE CITY AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES OF STATE, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE CITY.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE CITY.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

SI (METRIC) TO ENGLISH CONVERSION FACTORS

SYMBOL	WHEN YOU KNOW	MULTIPLY BY	TO FIND	SYMBOL
		LENGTH		
M	MICROMETERS	0.03937	MILS	MIL
M	MILLIMETERS	0.03937	INCHES	IN
M	METERS	3.28084	FEET	FT
M	METERS	1.093613	YARDS	YD
KM	KILOMETERS	0.62137	MILES	MI
MM^2	SQUARE MILLIMETER	0.00155	SQUARE INCHES	IN^2
M^2	SQUARE METERS	10.76391	SQUARE FEET	FT^2
M^2	SQUARE METERS	1.19599	SQUARE YARDS	YD^2
HA	HECTARES	2.4710437	ACRES	AC
M^2	SQUARE METERS	0.000247	ACRES	AC
KM^2	SQUARE KILOMETERS	0.3861	SQUARE MILES	MI^2
		VOLUME		
MI	MILLILITERS	0.033814	FLUID OUNCES	FL OZ
L	LITERS	0.264172	GALLONS	GAL
M^3	CUBIC METERS	35.31466	CUBIC FEET	FT^3
M^3	CUBIC METERS	1.30795	CUBIC YARDS	YD^3
		MASS		
G	GRAMS	0.035274	OUNCES	OZ
KG	KILOGRAMS	2.204622	POUNDS	LB
T	METRIC TON	1.1023114	2000 POUNDS	T
		TEMPERATURE		
C	CELSIUS	1.8C + 32	FAHRENHEIT	°F
		ILLUMINATION		
LX	LUX	0.09290304	FOOT-CANDLES	FC
CD/M^2	CANDELA/SQ METER	0.29186352	FOOT-LAMBERTS	FL
		FORCE AND PRESSURE OR STRESS		
N M	NEWTON-METER	0.7375621	FOOT-POUND FORCE	FT. LBF
N	NEWTONS	0.22480892	POUND FORCE	LBF
PA	PASCALS	0.02088543	POUND FORCE PER SQUARE FOOT	LBF/FT^2 (PSF)
MPA	MEGAPASCALS	145.03774	POUND FORCE PER SQUARE INCH	LBF/IN^2 (PSI)

HORIZONTAL AND VERTICAL CONTROL

CROSS NOTCH E 425778.158
N 123716.77
ELEV. 149.607

LOCATED ON THE NORTH SIDE OF PETE ROSE WAY, 1.8 METERS NORTH OF THE NORTH CURB ON PETE ROSE WAY, 86.5 METERS EAST OF THE CENTERLINE OF ELM STREET, 189.5 METERS WEST OF THE CENTERLINE OF STADIUM DRIVE.

CROSS NOTCH E 425978.491
N 123749.442
ELEV. 149.625

LOCATED AT THE NORTHEAST CORNER OF PETE ROSE WAY AND RAMP Q (OPPOSITE STADIUM DRIVE), 1.1 METER NORTH OF THE NORTH CURB OF PETE ROSE WAY, AND 3.9 METERS EAST OF THE EAST CURB OF RAMP Q PRODUCED SOUTH.

BENCH MARK 4300 E 426108.061
N 123772.053
ELEV. 161.508

LOCATED ON THE PLAZA LEVEL AT CINERGY FIELD IN THE NORTHWEST CORNER, A BRASS DISC 0.77 METERS EAST OF THE WEST PARAPET WALL AND 5.0 METERS SOUTH OF THE NORTH PARAPET WALL.

BENCH MARK 4301 E 426411.439
N 123827.864
ELEV. 161.536

LOCATED ON THE PLAZA LEVEL AT CINERGY FIELD IN THE NORTHEAST CORNER, A BRASS DISC 0.81 METERS SOUTH OF THE NORTH PARAPET WALL AND 3.1 METERS WEST OF THE EAST PARAPET WALL.

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

CALCULATED 12/01/99
CHECKED MY

GENERAL NOTES

CITY OF CINCINNATI
CONTRACT No. 75X5753

5
125

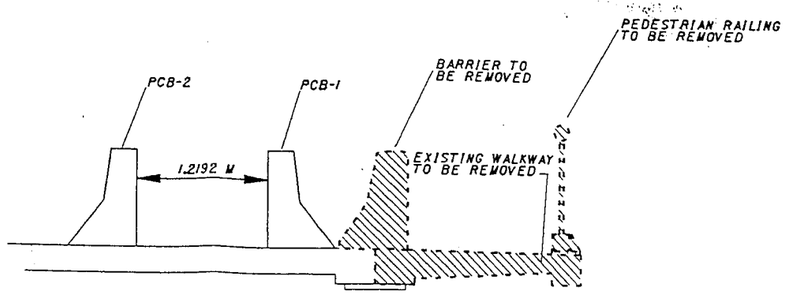
REVISION NO.	DESCRIPTION	DATE	BY
CA NO.___	WIDENED NORTHBOUND TRAFFIC LANES	2/11/00	JPE

CONTRACTOR MUST HAVE TEMPORARY PEDESTRIAN ACCESS WALKWAY IN PLACE BEFORE REMOVING ANY EXISTING BARRIER WALL OR PEDESTRIAN RAILING.

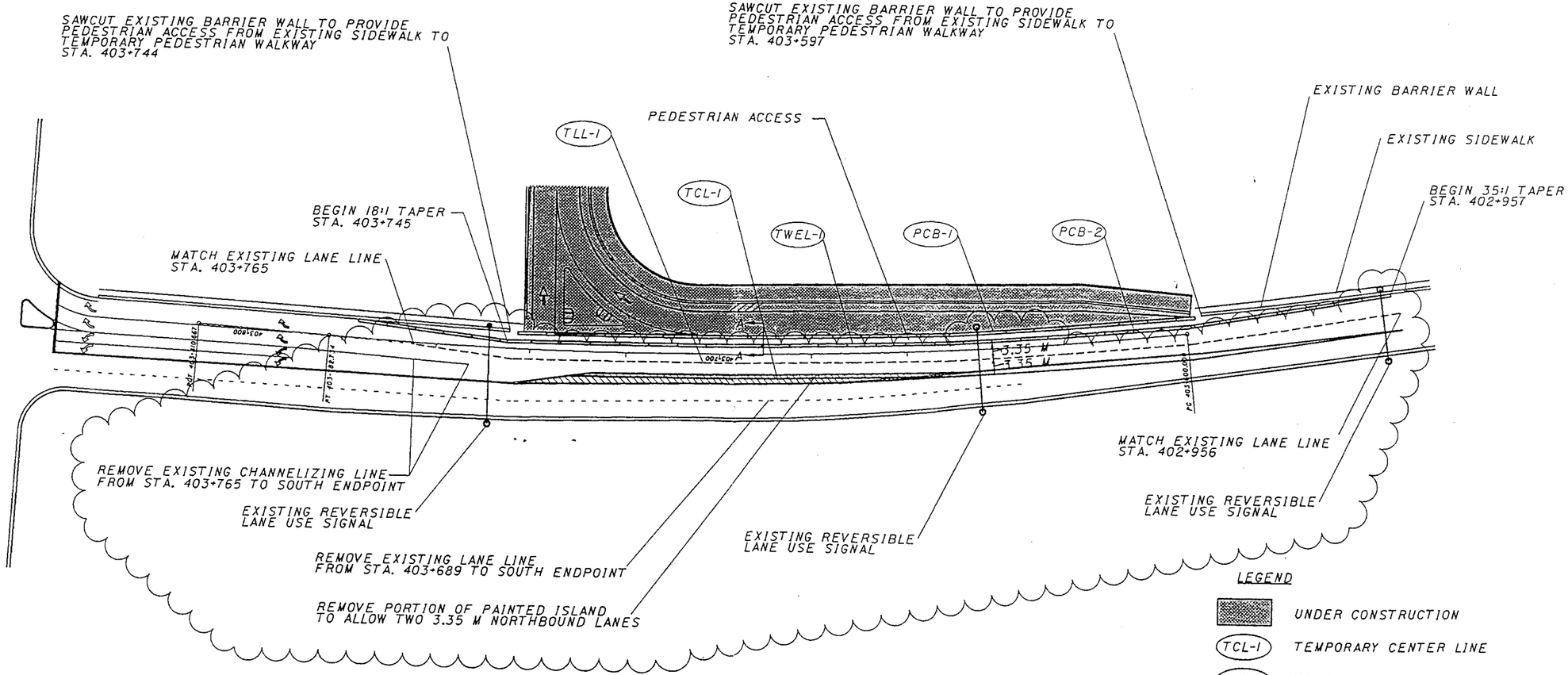
CONTRACTOR MUST REMOVE THE EXISTING NORTHBOUND LANE LINE BETWEEN STATIONS WHERE THE TEMPORARY LANE LINE MATCHES EXISTING LANE LINE AS NOTED

CONTRACTOR MUST REMOVE AN 80 METER LENGTH OF CENTERLINE FROM THE NORTHBOUND SIDE AND REPLACE IT WITH THE TEMPORARY CENTERLINE AS NOTED.

CONTRACTOR MUST PROVIDE A TEMPORARY WHITE EDGE LINE AT THE BASE OF THE PORTABLE CONCRETE BARRIER WALL ADJACENT TO TRAFFIC.



SECTION A-A



Move Overhead Reversible Signals

When?

SCALE IN METERS 0 5 10 20

DATE 02/10/00 CHECKED

MAINTENANCE OF TRAFFIC - RAMP D

CITY OF CINCINNATI
CONTRACT No. 75X5753

CA NO.___
FEBRUARY 11, 2000

6/125

PB 100 YEARS

02/10/00 Thu Feb 10 16:56:52 2000

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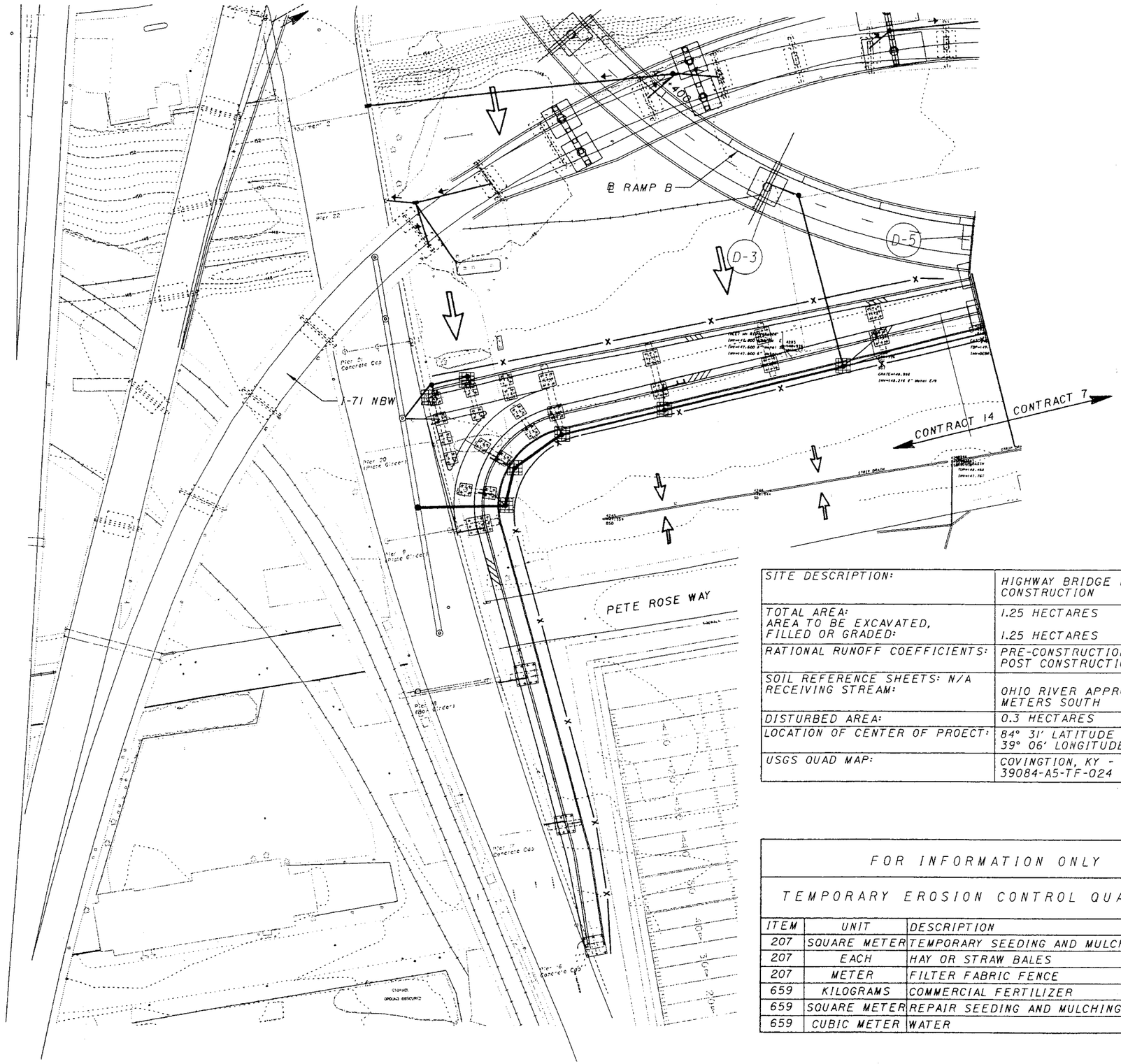

L E G E N D

- DRAINAGE FLOW
- 150 EXISTING CONTOUR
- PROPOSED STORM DRAIN
- EXISTING STORM DRAIN
- HAY OR STRAW BALES
- x FILTER FABRIC FENCE

SITE DESCRIPTION:	HIGHWAY BRIDGE NEW CONSTRUCTION
TOTAL AREA: AREA TO BE EXCAVATED, FILLED OR GRADED:	1.25 HECTARES 1.25 HECTARES
RATIONAL RUNOFF COEFFICIENTS:	PRE-CONSTRUCTION C = 0.90 POST CONSTRUCTION C = 0.90
SOIL REFERENCE SHEETS: N/A RECEIVING STREAM:	OHIO RIVER APPROXIMATELY 300 METERS SOUTH
DISTURBED AREA:	0.3 HECTARES
LOCATION OF CENTER OF PROECT:	84° 31' LATITUDE 39° 06' LONGITUDE
USGS QUAD MAP:	COVINGTION, KY - OHIO, 39084-A5-TF-024

FOR INFORMATION ONLY

TEMPORARY EROSION CONTROL QUANTITIES

ITEM	UNIT	DESCRIPTION	QUANTITY
207	SQUARE METER	TEMPORARY SEEDING AND MULCHING	400
207	EACH	HAY OR STRAW BALES	56
207	METER	FILTER FABRIC FENCE	450
659	KILOGRAMS	COMMERCIAL FERTILIZER	40
659	SQUARE METER	REPAIR SEEDING AND MULCHING	100
659	CUBIC METER	WATER	12

NOTES:

1. PROJECT AREA DRAINS TO EXISTING STORM DRAINS . THE STORM DRAINS DISHARGE TO SMITH STREET, CENTRAL AVENUE, AND PLUM STREET COLLECTORS.

2. CONTRACTOR SHALL USE STRAW OR HAY BALES UPSTREAM FROM PROPOSED OR EXISTING INLETS THAT WILL RECEIVE STORM WATER RUNOFF FROM DISTURBED AREAS . BALES TO BE INSTALLED IN ACCORDANCE WITH STD DM-4.3M AND SPECIFICATION 207.

3.CONTRACTOR SHALL USE FILTER FABRIC FENCES TO PREVENT RUNOFF FROM DRAINING OFF DISTURBED SLOPES ONTO PAVEMENT.FILTER FABRIC FENCES.

4.CONTRACTOR SHALL PLACE TEMPORARY SEEDING AND MULCHING ON DISTURBED AREAS THAT WILL BE EXPOSED FOR LONGER THAN 30 DAYS WITHOUT BEING PAVED OR PERMENANTLY LANDSCAPED. TEMPORARY SEEDING AND MULCHING SHALL BE INSTALLED IN ACCORDANCE WITH SPECIFICATION 207.

5. CONTRACTOR SHALL REARRANGE AND MODIFY THE PLAN QUANTITIES TO MEET THE FIELD CONDITIONS AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT.

DESIGN AGENCY
PB PARSONS BRINCKERHOFF INC.
312 ELM STREET SUITE 2500
CINCINNATI,OH 45202-2720

HORIZONTAL SCALE IN METERS 0 5 10 20

CALCULATED AD CHECKED MY

STORM WATER POLLUTION PREVENTION PLAN

CITY OF CINCINNATI
CONTRACT No. 75X5753

7/125

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SHEET NUMBER								ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION	REF. NO
7	16	25	26	30	32	*							
						1				LUMP		GL INSURANCE	
						1				LUMP		PERFORMANCE BOND	
						1				LUMP		CLEARING AND GRUBBING	
												CAST IN PLACE STRUCTURES	
								530	00200	1	LUMP	SPECIAL - STRUCTURE, BRIDGE NO. 5A, PIER 5D-1	
								507	42201	152	M	350mm CAST IN PLACE REINFORCING CONCRETE PILES, AS PER PLAN	
								530	00200	1	LUMP	SPECIAL - STRUCTURE, BRIDGE NO. 5A, PIER 5D-2	
								507	42201	195	M	350mm CAST IN PLACE REINFORCING CONCRETE PILES, AS PER PLAN	
								530	00200	1	LUMP	SPECIAL - STRUCTURE, BRIDGE NO. 5A, PIER 5D-3	
								507	42201	240	M	350mm CAST IN PLACE REINFORCING CONCRETE PILES, AS PER PLAN	
								530	00200	1	LUMP	SPECIAL - STRUCTURE, BRIDGE NO. 5B, PIER 5D-4	
								507	42201	241.2	M	350mm CAST IN PLACE REINFORCING CONCRETE PILES, AS PER PLAN	
								530	00200	1	LUMP	SPECIAL - STRUCTURE, BRIDGE NO. 5B, PIER 5D-5	
								507	42201	190.4	M	350mm CAST IN PLACE REINFORCING CONCRETE PILES, AS PER PLAN	
								530	00200	1	LUMP	SPECIAL - STRUCTURE, BRIDGE NO. 5B, PIER 5D-6	
								507	42201	190.4	M	350mm CAST IN PLACE REINFORCING CONCRETE PILES, AS PER PLAN	
								530	00200	1	LUMP	SPECIAL - STRUCTURE, BRIDGE NO. 5B, PIER 5D-7	
								507	42201	190.4	M	350mm CAST IN PLACE REINFORCING CONCRETE PILES, AS PER PLAN	
								530	00200	1	LUMP	SPECIAL - STRUCTURE, BRIDGE NO. 5B, PIER 5D1-1	
								507	42201	380.8	M	350mm CAST IN PLACE REINFORCING CONCRETE PILES, AS PER PLAN	
								530	00200	1	LUMP	SPECIAL - STRUCTURE, BRIDGE NO. 5B, PIER 5D1-2	
								507	42201	190.4	M	350mm CAST IN PLACE REINFORCING CONCRETE PILES, AS PER PLAN	
								530	00200		LUMP	SPECIAL - STRUCTURE, BRIDGE NO. 5B, PIER 5D1-3	
								507	42201	190.4	M	350mm CAST IN PLACE REINFORCING CONCRETE PILES, AS PER PLAN	
								530	00200	1	LUMP	SPECIAL - STRUCTURE, BRIDGE NO. 5C, PIER 5D-8	
								507	42201	463	M	350mm CAST IN PLACE REINFORCING CONCRETE PILES, AS PER PLAN	
								530	00200	1	LUMP	SPECIAL - STRUCTURE, BRIDGE NO. 5C, PIER 5D-9	
								507	42201	381	M	350mm CAST IN PLACE REINFORCING CONCRETE PILES, AS PER PLAN	
								530	00200	1	LUMP	SPECIAL - STRUCTURE, BRIDGE NO. 5C, PIER 5D-10	
								507	42201	356	M	350mm CAST IN PLACE REINFORCING CONCRETE PILES, AS PER PLAN	
								530	00200	1	LUMP	SPECIAL - STRUCTURE, BRIDGE NO. 5C, PIER 5D-11	
								507	42201	404	M	350mm CAST IN PLACE REINFORCING CONCRETE PILES, AS PER PLAN	
												STRUCTURES	
								SPEC.			LUMP	SUPERSTRUCTURE, BRIDGE NO. 5A	
								SPEC.			LUMP	SUPERSTRUCTURE, BRIDGE NO. 5B	
								SPEC.			LUMP	SUPERSTRUCTURE, BRIDGE NO 5C	
								SPEC.			LUMP	SUBSTRUCTURE, BRIDGE NO. 5A	
								SPEC.			LUMP	SUBSTRUCTURE, BRIDGE NO. 5B	
								SPEC.			LUMP	SUBSTRUCTURE, BRIDGE NO. 5C	
												MISCELLANEOUS	
								SPEC.			LUMP	MAINTENANCE OF TRAFFIC	
								SPEC.			LUMP	TESTING	
								SPEC.			LUMP	CONTINGENCY	
								SPEC.			LUMP	SAFETY PROGRAM	
								SPEC.			LUMP	PROGRESS SCHEDULE	
								SPEC.			LUMP	CONSTRUCTION LAYOUT	
								SPEC.			LUMP	MOBILIZATION	
								SPEC.			LUMP	SPECIAL PROTECTION OF BENGALS PROTECTION FIELDS	

* RETURN TO BID FORM

DESIGN AGENCY
PARSONS BRINCKERHOFF INC
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

CALCULATED 12/01/99
CHECKED MY

GENERAL SUMMARY

CITY OF CINCINNATI
CONTRACT No. 75X5753

8
125

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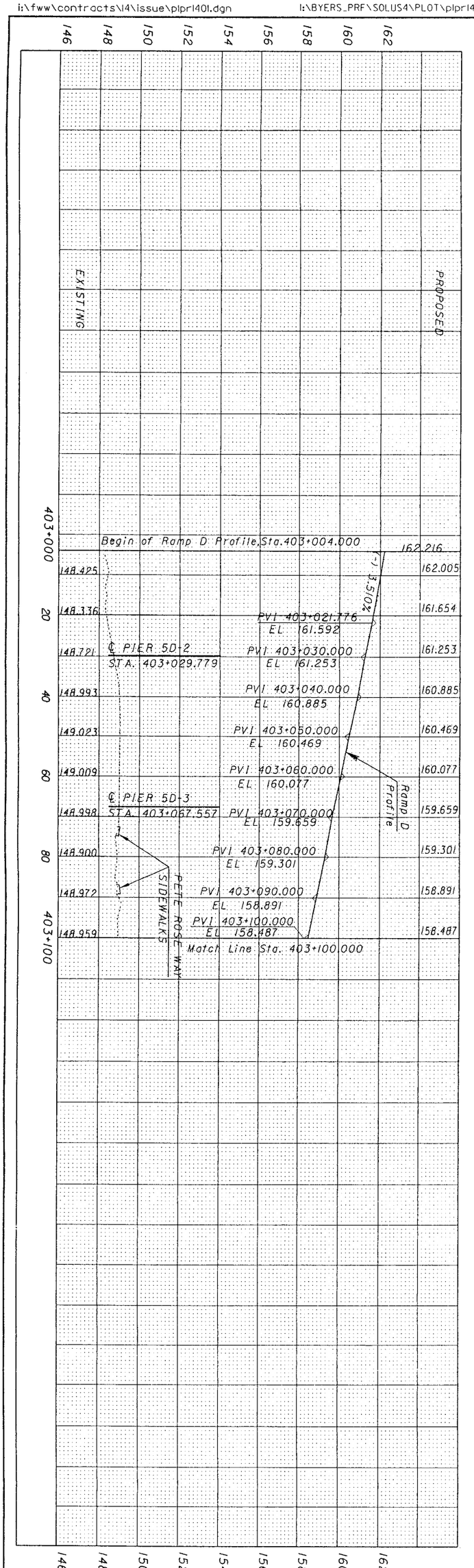

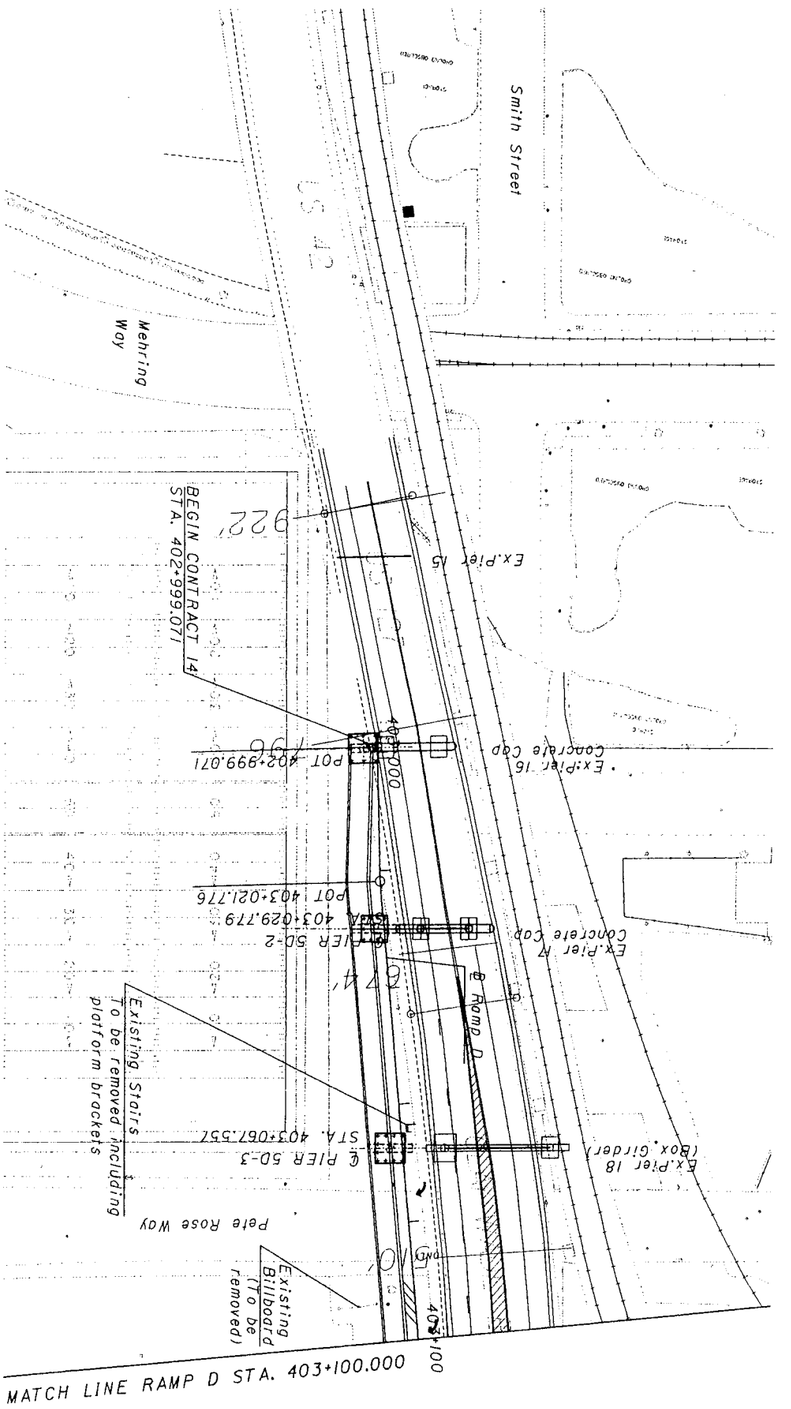

DESIGN AGENCY
PB PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

9/125

CITY OF CINCINNATI
CONTRACT No. 75X5753

PLAN AND PROFILE - RAMP D
STA. 402+999.071 - STA. 403+100.000

CALCULATED MY
CHECKED

HOR. 0 5 10 20
VER. 0 1 2 4
SCALE IN METERS

N

Ex. Abutment

Ex. Pier 22

Ex. Pier 21 Concrete Cap

Ex. Pier 20 (Plate Girder)

Ex. Pier 19 (Plate Girder)

℄ PIER 4-3

℄ PIER 4-4

℄ PIER 4-5

℄ PIER 4-6

℄ Ramp B

℄ RAMP DI

CROSSETT CT.

CENTRAL AVENUE

ROSE WAY

CONTRACT 14

CONTRACT 7

PT 403+882.734

POT 403+500.000

POT 403+533.383

POT 403+299.350

Sta. 401+899

403+249.800

403+143.642

403+103.927

403+100.000

STATION EQUATION
Sta.403+533.383 Ramp DI=
Sta.403+143.642,4.8mLt.,RampD

DRAWINGS DO NOT EXIST

Drainage Pipe

MATCH LINE RAMP D STA. 403+100.000

PROPOSED

EXISTING

RAMP D PROFILE

RAMP DI PROFILE

RAMP B PROFILE

PVI 403+180.126
101m V.C.
EL 155.279
K = 11.48
SSD = 62.3m

LOW POINT
Sta. 403+175.355
El. 156.379

(-) 3.984%

(+) 4.815%

MATCH LINE STA. 403+100.000

PVI 403+103.927
EL 158.314

750 mm Drainage Pipe

375 mm Drainage Pipe

Sta. 403+249.800

CONTRACT 14

CONTRACT 7

END RAMP D STA. 403+299.330

158.072 157.674 157.275 156.924 156.659 156.482 156.392 156.399 156.473 156.644 156.902 157.248 157.680 158.161 158.643 159.124 159.606 160.087 160.569 161.018

149.038 149.100 149.079 149.047 148.960 148.939 148.930 148.924 148.944 148.972 149.024 149.049 149.090 149.143 149.191 149.249 149.341 149.433

162 160 158 156 154 152 150 148 146

403+100 20 40 60 80 403+200 20 40 60 80

DESIGN AGENCY
PB PARSONS BRINCKERHOFF INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

SCALE IN METERS
HOR. 0 5 10 20
VER. 0 1 2 4

CALCULATED MY
CHECKED

PLAN AND PROFILE - RAMP D
STA. 403+100.000 - 403+249.800

CITY OF CINCINNATI
CONTRACT No. 75X5753

10
125

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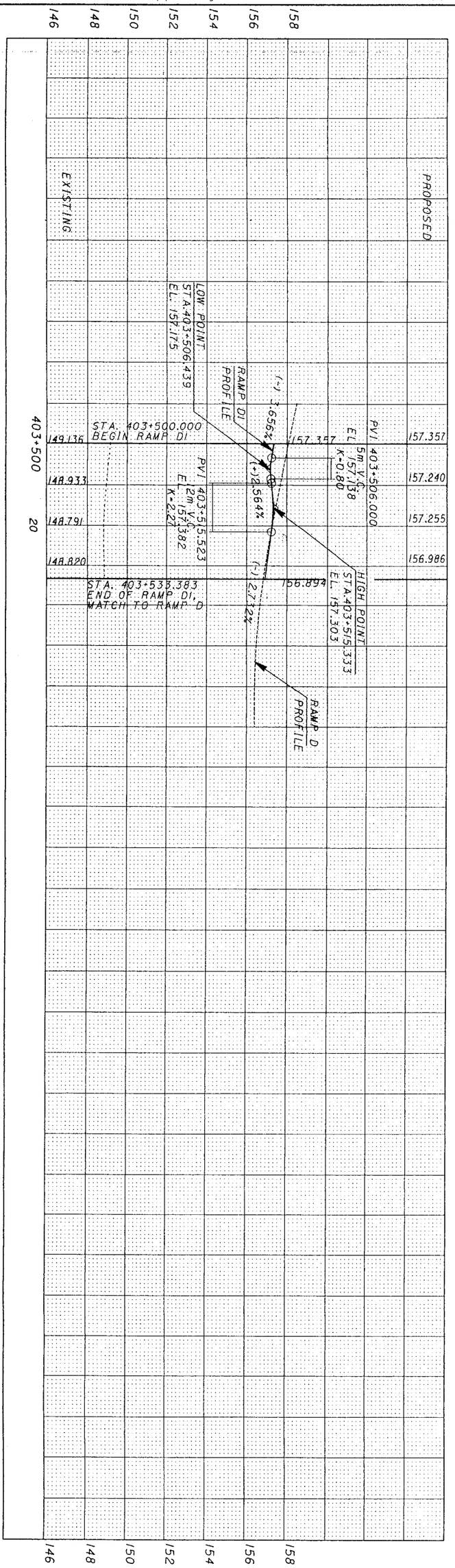
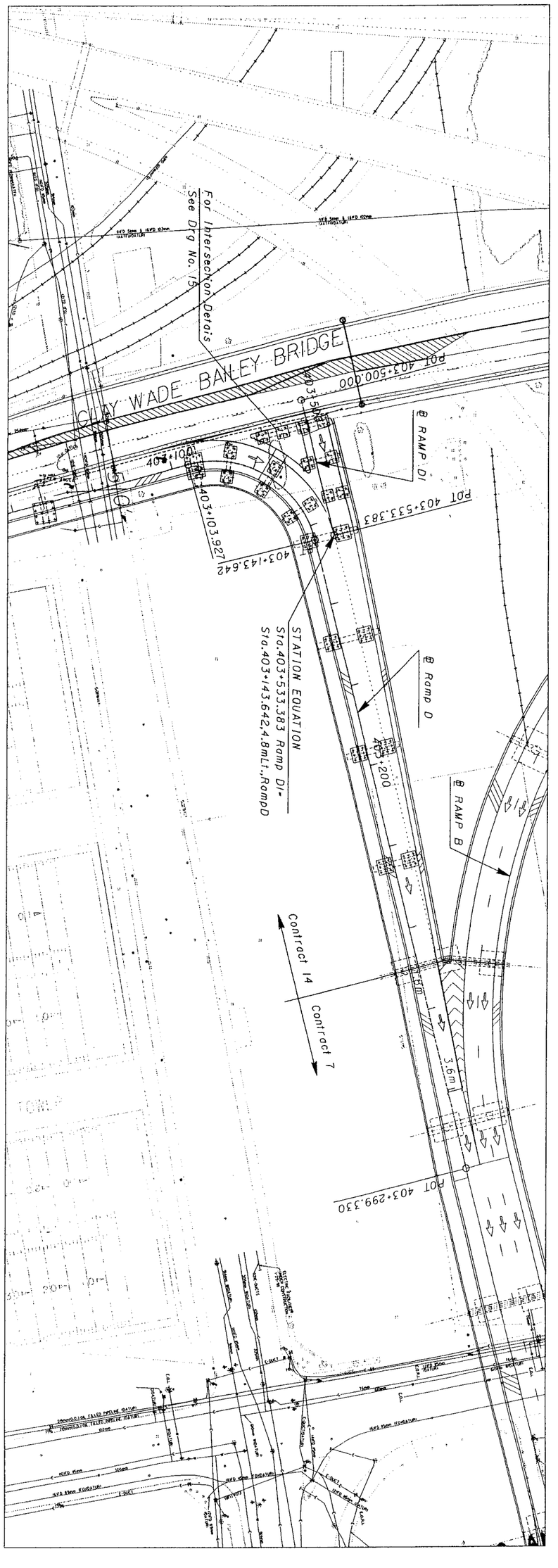
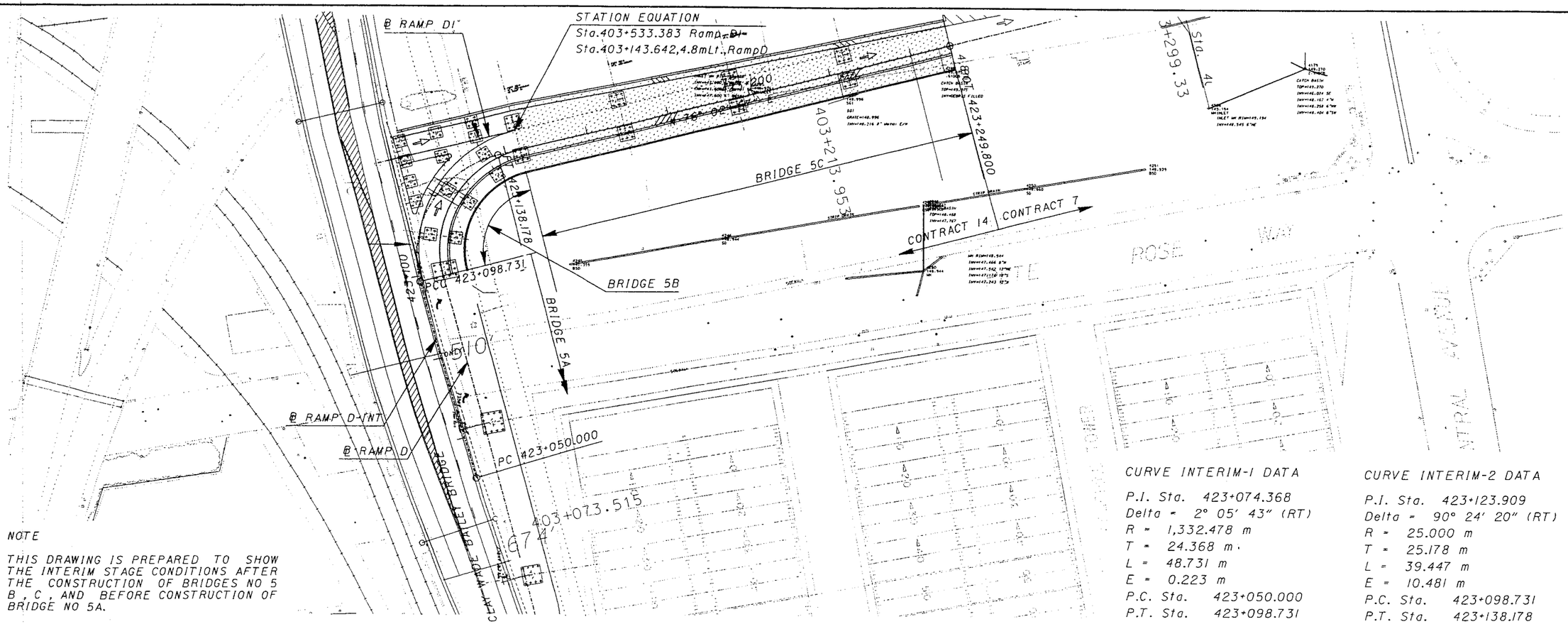




11/125	CITY OF CINCINNATI CONTRACT No. 75X5753	PLAN AND PROFILE - RAMP D1 STA. 403+500.000 - STA. 403+533.383	CALCULATED MY CHECKED	0 5 10 20 HOR. 0 1 2 4 VER. SCALE IN METERS



NOTE

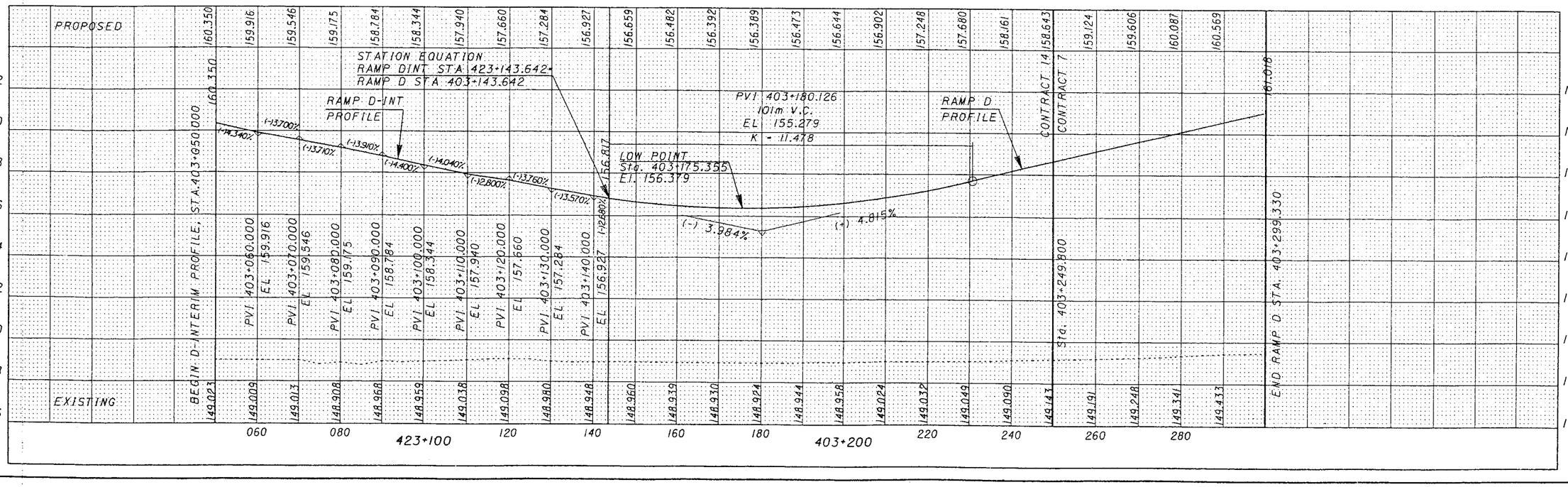
THIS DRAWING IS PREPARED TO SHOW THE INTERIM STAGE CONDITIONS AFTER THE CONSTRUCTION OF BRIDGES NO 5 B , C , AND BEFORE CONSTRUCTION OF BRIDGE NO 5A.

CURVE INTERIM-1 DATA

P.I. Sta. 423+074.368
Delta = 2° 05′ 43″ (RT)
R = 1,332.478 m
T = 24.368 m
L = 48.731 m
E = 0.223 m
P.C. Sta. 423+050.000
P.T. Sta. 423+098.731

CURVE INTERIM-2 DATA

P.I. Sta. 423+123.909
Delta = 90° 24′ 20″ (RT)
R = 25.000 m
T = 25.178 m
L = 39.447 m
E = 10.481 m
P.C. Sta. 423+098.731
P.T. Sta. 423+138.178

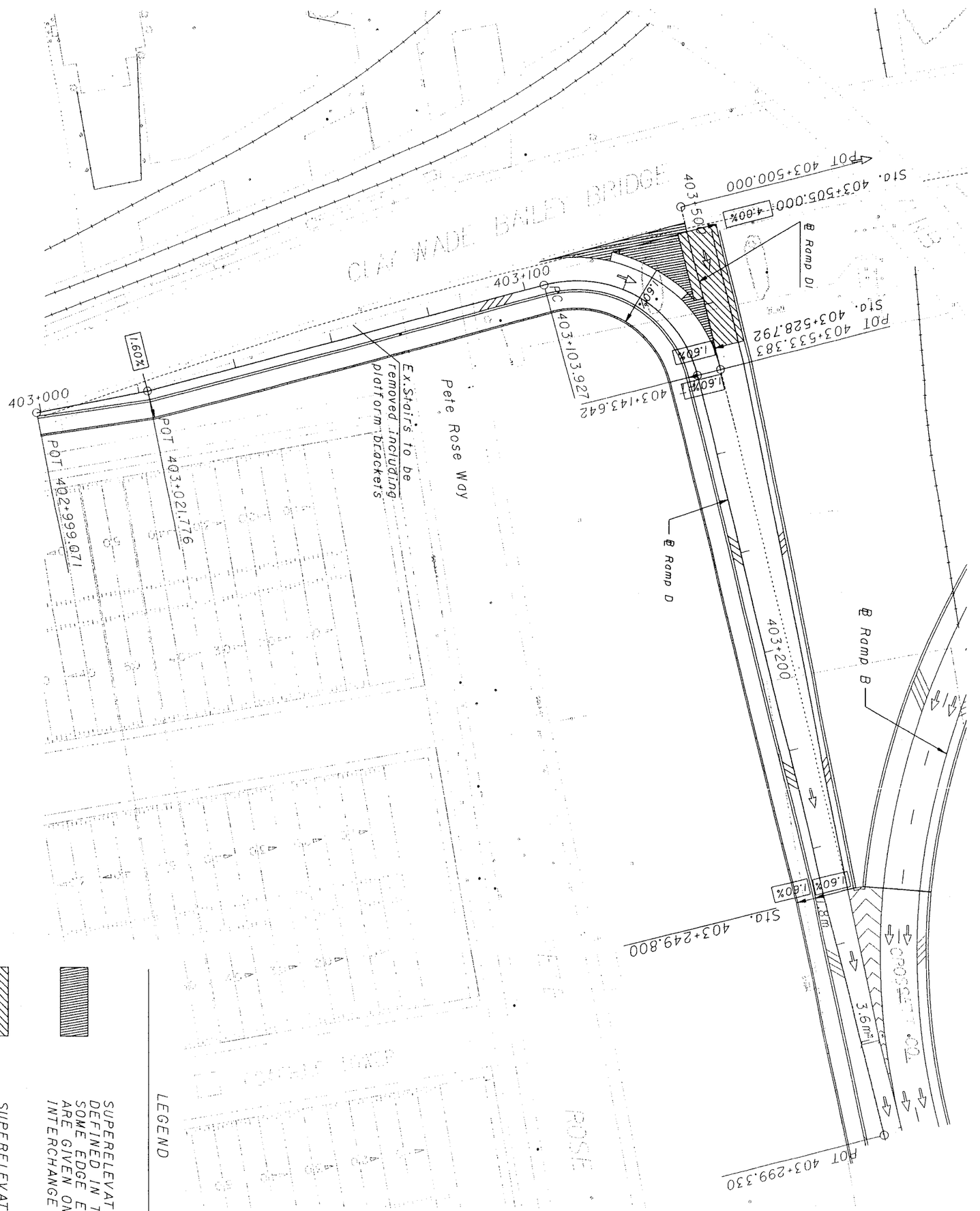


PLAN AND PROFILE
INTERIM STAGE

CITY OF CINCINNATI
CONTRACT No. 75X5753

SCALE IN METERS
HOR. 0 5 10 20
VER. 0 1 2 4

CALCULATED MY
CHECKED



LEGEND

SUPERELEVATION CHANGE ZONE

SUPERELEVATION IS NOT DEFINED IN THAT AREA. SOME EDGE ELEVATIONS ARE GIVEN ON INTERCHANGE DRAWING.

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

13/125

CITY OF CINCINNATI
CONTRACT No. 75X5753

SUPERELEVATION PLAN

CALCULATED MY
CHECKED

0 4 8 16
HORIZONTAL SCALE IN METERS

N

SUPERELEVATION TABLE
RAMP D

COMMENTS	LEFT SHOULDER			LEFT LANE			RIGHT LANE			PROF GRADE	RIGHT SHOULDER			JERSEY BARR.		SIDEWALK			STATION
	LEFT EDGE SHLDR ELEV.	SHLDR SLOPE	SHLDR WIDTH	LEFT EDGE LANE ELEV.	LANE CROSS SLOPE	LANE WIDTH	LEFT EDGE LANE ELEV.	LANE CROSS SLOPE	LANE WIDTH		SHLDR SLOPE	SHLD WIDTH	RIGHT EDGE SHLDR ELEV.	WIDTH	RIGHT EDGE BARR. ELEV.	CROSS SLOPE	WIDTH	RIGHT EDGE SDWK ELEV.	
Begin Contract 14 Profile	-------	-------	-----	-------	-------	-----	-----	-----	-----	162.216	-------	-------	-----	0.458	-------	-------	-----	-----	403+004.000
	-------	-------	-----	-------	-------	-----	-----	-----	-----	162.005	-------	-------	-----	0.458	-------	-------	-----	-----	403+010.000
	-------	-------	-----	-------	-------	-----	-----	-----	-----	161.654	-------	-------	-----	0.458	-------	-------	-----	-----	403+020.000
End First Taper	-------	-------	-----	-------	-------	-----	161.631	0.0160	2.453	161.592	-------	-------	-----	0.458	-------	-------	-----	-----	403+021.776
	-------	-------	-----	-------	-------	-----	161.301	0.0160	3.007	161.253	-------	-------	-----	0.458	-------	-------	-----	-----	403+030.000
	-------	-------	-----	-------	-------	-----	160.942	0.0160	3.557	160.885	-0.0160	1.800	160.856	0.458	160.849	-0.0160	3.300	160.796	403+040.000
	-------	-------	-----	-------	-------	-----	160.533	0.0160	4.014	160.469	-0.0160	1.800	160.440	0.458	160.433	-0.0160	3.300	160.380	403+050.000
	-------	-------	-----	-------	-------	-----	160.147	0.0160	4.386	160.077	-0.0160	1.800	160.048	0.458	160.041	-0.0160	3.300	159.988	403+060.000
	-------	-------	-----	-------	-------	-----	159.733	0.0160	4.634	159.659	-0.0160	1.800	159.630	0.458	159.623	-0.0160	3.300	159.570	403+070.000
	-------	-------	-----	-------	-------	-----	159.378	0.0160	4.785	159.301	-0.0160	1.800	159.272	0.458	159.265	-0.0160	3.300	159.212	403+080.000
	-------	-------	-----	-------	-------	-----	158.968	0.0160	4.842	158.891	-0.0160	1.800	158.862	0.458	158.855	-0.0160	3.300	158.802	403+090.000
	-------	-------	-----	-------	-------	-----	158.564	0.0160	4.815	158.487	-0.0160	1.800	158.458	0.458	158.451	-0.0160	3.300	158.398	403+100.000
P.C. Horiz. Curve, Begin 4.8m Lane	-------	-------	-----	-------	-------	-----	158.391	0.0160	4.800	158.314	-0.0160	1.800	158.285	0.458	158.278	-0.0160	3.300	158.225	403+103.927
	-------	-------	-----	-------	-------	-----	158.149	0.0160	4.800	158.072	-0.0160	1.800	158.043	0.458	158.036	-0.0160	3.300	157.983	403+110.000
Begin 1.8m Shoulder	157.934	0.0160	1.800	-------	-------	-----	157.905	0.0160	4.800	157.828	-0.0160	1.800	157.799	0.458	157.792	-0.0160	3.300	157.739	403+116.129
	157.780	0.0160	1.800	-------	-------	-----	157.751	0.0160	4.800	157.674	-0.0160	1.800	157.645	0.458	157.638	-0.0160	3.300	157.585	403+120.000
Begin Change Lt. Shoulder Slope	157.381	0.0160	1.800	-------	-------	-----	157.352	0.0160	4.800	157.275	-0.0160	1.800	157.246	0.458	157.239	-0.0160	3.300	157.186	403+130.000
End 1.8m Shoulder	157.292	0.000	1.800	-------	-------	-----	157.291	0.0160	4.800	157.214	-0.0160	1.800	157.185	0.458	157.178	-0.0160	3.300	157.125	403+131.592
	-------	-------	-----	-------	-------	-----	157.001	0.0160	4.800	156.924	-0.0160	1.800	156.895	0.458	156.888	-0.0160	3.300	156.835	403+140.000
P.T. Horiz. Curve	156.990	0.0160	1.200	156.971	0.0160	4.800	156.894	0.0160	4.800	156.817	-0.0160	1.800	156.788	0.458	156.781	-0.0160	3.300	156.728	403+143.642
	156.827	0.0160	1.200	156.808	0.0160	4.513	156.736	0.0160	4.800	156.659	-0.0160	1.800	156.630	0.458	156.623	-0.0160	3.300	156.570	403+150.000
	156.643	0.0160	1.200	156.624	0.0160	4.060	156.559	0.0160	4.800	156.482	-0.0160	1.800	156.453	0.458	156.446	-0.0160	3.300	156.393	403+160.000
	156.546	0.0160	1.200	156.527	0.0160	3.608	156.469	0.0160	4.800	156.392	-0.0160	1.800	156.363	0.458	156.356	-0.0160	3.300	156.303	403+170.000
Low Point	156.529	0.0160	1.200	156.510	0.0160	3.366	156.456	0.0160	4.800	156.379	-0.0160	1.800	156.350	0.458	156.343	-0.0160	3.300	156.290	403+175.357
	156.535	0.0160	1.200	156.516	0.0160	3.156	156.466	0.0160	4.800	156.389	-0.0160	1.800	156.360	0.458	156.353	-0.0160	3.300	156.300	403+180.000
	156.612	0.0160	1.200	156.593	0.0160	2.704	156.550	0.0160	4.800	156.473	-0.0160	1.800	156.444	0.458	156.437	-0.0160	3.300	156.384	403+190.000
	156.776	0.0160	1.200	156.757	0.0160	2.252	156.721	0.0160	4.800	156.644	-0.0160	1.800	156.615	0.458	156.608	-0.0160	3.300	156.555	403+200.000
	157.027	0.0160	1.200	157.008	0.0160	1.800	156.979	0.0160	4.800	156.902	-0.0160	1.800	156.873	0.458	156.866	-0.0160	3.300	156.813	403+210.000
	157.366	0.0160	1.200	157.346	0.0160	1.347	157.325	0.0160	4.800	157.248	-0.0160	1.800	157.219	0.458	157.212	-0.0160	3.300	157.159	403+220.000
	157.790	0.0160	1.200	157.771	0.0160	0.895	157.757	0.0160	4.800	157.680	-0.0160	1.800	157.651	0.458	157.644	-0.0160	3.300	157.591	403+230.000
	158.264	0.0160	1.200	158.245	0.0160	0.443	158.238	0.0160	4.800	158.161	-0.0160	1.800	158.132	0.458	158.125	-0.0160	3.300	158.072	403+240.000
End Contract 14	158.729	0.0160	1.200	158.710	0.0160	0.000	158.710	0.0160	4.800	158.633	-0.0160	1.800	158.604	0.458	158.597	-0.0160	3.300	158.544	403+249.800

SUPERELEVATION TABLE
RAMP DI

COMMENTS	LEFT SHOULDER			LEFT LANE			RIGHT SHOULDER			STATION
	LEFT EDGE SHLDR ELEV.	SHLDR SLOPE	SHLDR WIDTH	LEFT EDGE LANE ELEV.	LANE CROSS SLOPE	LANE WIDTH	SHLDR SLOPE	SHLDR WIDTH	RIGHT EDGE SHLDR ELEV.	
Begin Contract 14	-----	-----	-----	-----	-----	-----	-----	-----	-----	403+500.000
Edge of Existing Lane	-----	-----	-----	-----	-----	-----	-----	-----	-----	403+503.600
Begin Change Crossfall	156.843	-0.040	2.361	156.938	-0.040	6.254	0.040	1.800	157.260	403+505.000
Low Point	156.930	-0.037	1.365	156.981	-0.037	5.256	0.037	1.800	157.242	403+506.439
	157.072	-0.028	1.200	157.106	-0.028	4.800	0.028	1.800	157.290	403+510.000
High Point	157.207	-0.016	1.200	157.226	-0.016	4.800	0.016	1.800	157.332	403+515.433
End 1.8m Shoulder	157.229	-0.008	1.200	157.239	-0.008	4.800	0.008	1.800	157.291	403+518.735
	157.225	-0.005	1.200	157.231	-0.005	4.800	-----	-----	-----	403+520.000
Flat	157.199	0.000	1.200	157.199	0.000	4.800	-----	-----	-----	403+522.209
End Change Crossfall	157.107	0.016	1.200	157.088	0.016	4.800	-----	-----	-----	403+529.093
	157.082	0.016	1.200	157.063	0.016	4.800	-----	-----	-----	403+530.000
End Ramp DI	156.990	0.016	1.200	156.971	0.016	4.800	-----	-----	-----	403+533.383

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

CALCULATED MY | CHECKED

SUPERELEVATION TABLES

CITY OF CINCINNATI
CONTRACT No. 75X5753

DESIGN AGENCY
PB
PARSONS BRINCKERHOFF INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2728

HORIZONTAL SCALE IN METERS

CALCULATED MY | CHECKED

T - INTERSECTION DETAILS

CITY OF CINCINNATI
CONTRACT No. 75X5753

15
125

403+700

℄ CWB

Typical Traffic Island
(See City Standards, Acc. No. 21438)

Temporary cast in place curb. See details below

7 m | 3 m

Existing Jersey Barrier

POT 403+500.000

Taper for Jersey Barrier

CLAY WADE BAILEY BRIDGE

STA. 403+090

158.564 | 158.391 | 157.905 | 157.934 | 157.240 | 157.260 | 156.938

1.60% 4.815m | 1.60% 4.818m | 1.8m

6.254m 4.00%

STA. 403+505

3.70% STA. 403+506.439 (Low Point)

157.780 | 157.751 | 157.828 | 1.6% 4.8m | 157.674 | 157.581 | 156.981 | 157.242 | 157.175 | 1.2m | 0.458m

STA. 503+510.000

Edge of Existing Bridge

1.8m | 4.8m | 2.80% | 157.240 | 157.290

0.458m | 158.487 | 158.314 | PC 403+103.927

1.60% 3.3m | 157.799 | 157.792 | 1.8m | 157.106

0.300m | 3.3m | 403+119 | 403+120 | 403+122 | 157.739 | Pedestrian Crossing | 157.552 | 157.384 | 157.292 | 157.292 | 157.240

Scuppers | 157.352 | 1.8m 1.6% | 157.278 | 1.8m | 4.8m | 1.2m | 0.8%

STA. 403+518.735

BILLBOARD

STA. 403+116.129 | 403+130 | 157.214 | 4.8m | 1.6% | 157.185 | 1.8m | 157.291

STA. 403+522.209

STA. 403+125 | 157.132 | 1.6% | 157.199

STA. 403+131.592

156.924 | 157.001 | 4.8m 1.6%

Shaded area does not have a constant slope

STA. 403+140

PT 403+143.642

4.8m 1.2m | 1.6% | 3.3m | 1.6% | POT 403+533.383

156.895

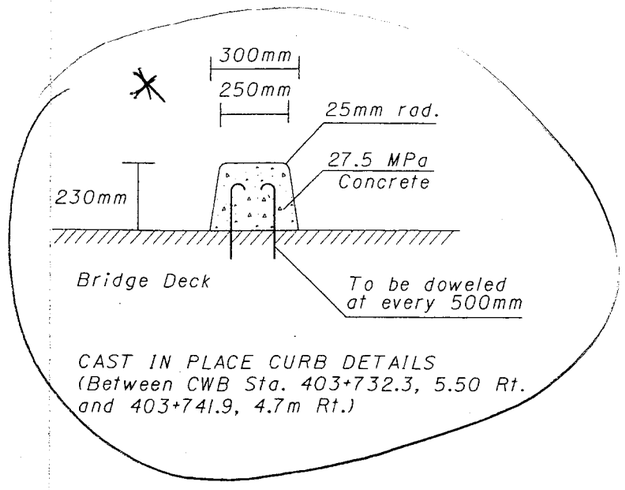
156.659 | 156.736 | 156.808 | 0.458m

3.3m 1.6% | 1.8m 1.6% | 4.8m 1.6% | 4.513m 1.2m 1.6%

0.300m | 0.458m | STA. 403+150.000

STATION EQUATION
STA. 403+143.642, 4.8m LT, RAMP D=
STA. 403+533.383, RAMP D1

MATCH LINE - RAMP D STA. 403 +155



CAST IN PLACE CURB DETAILS
(Between CWB Sta. 403+732.3, 5.50 Rt. and 403+741.9, 4.7m Rt.)

* CURB NOT INSTALLED
CITY DECIDED TO PERMIT LEFT TURN LANE FROM CLAY WADE BAILEY TO 2ND ST

REFERENCE NO.	STATION	SIDE	603 200 mm DIP CL. 52 INCLUDING SPECIALS	518 SCUPPERS INCLUDING SUPPORTS	SPECIAL SPECIAL DOWNSPOUT CONNECTOR				
			METERS	EACH	EACH				
S-1	403+030.322	RT	11	1					
S-2	403+066.505	RT	11	1					
S-3	403+104.497	RT	11	1					
S-4	403+113.201	RT	19	1	1				
S-5	403+123.805	RT	17	1	1				
S-6	403+142.632	RT	18	1	1				
S-7	403+170.021	RT	15	1	1				
S-8	403+174.000	RT	5	1					
S-9	403+175.357	RT	2	1					
S-10	403+223.421	RT	21	1	1				
S-11	403+507.283	LT	13	1	1				
S-12	403+514.451	LT	13	1	1				
S-13	403+505.032	RT	18	1	1				
TOTALS			174	13	8				

QUANTITIES SHOWN ARE FOR INFORMATION ONLY.
DRAINAGE TO BE BID AS LUMP SUM.

NOTES:

ALL EXISTING OUTLET PIPES REPLACED SHALL BE SEALED AND ABANDONED

ALL PIPES WITH INVERTS SET IN FIELD MUST HAVE A MINIMUM 1.00% SLOPE

DEPTHS SHALL BE SET SO THAT NO PIPE HAS A SLOPE LESS THEN 1.00%

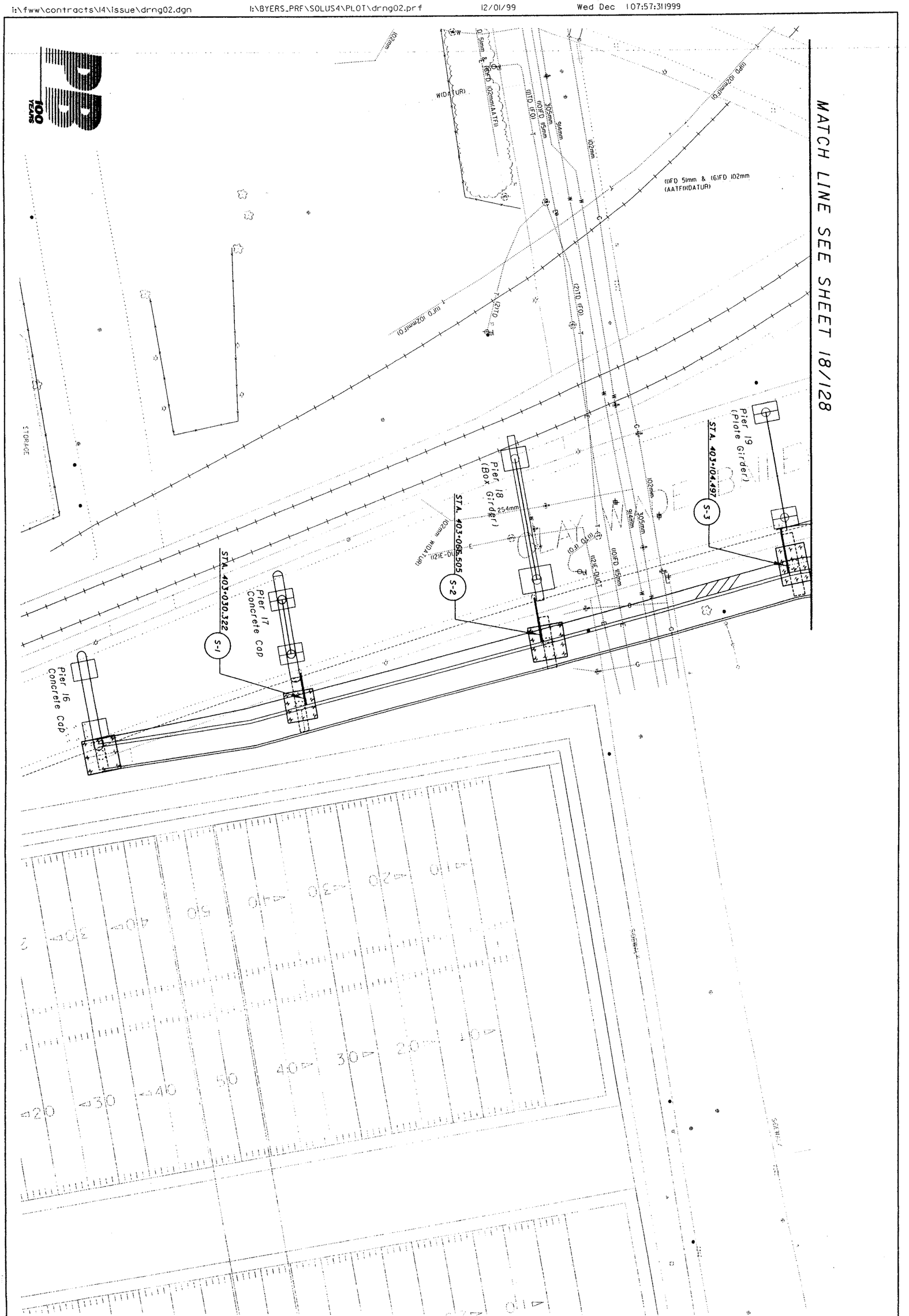
PB 100 YEARS

DATE 12/01/99
CHECKED

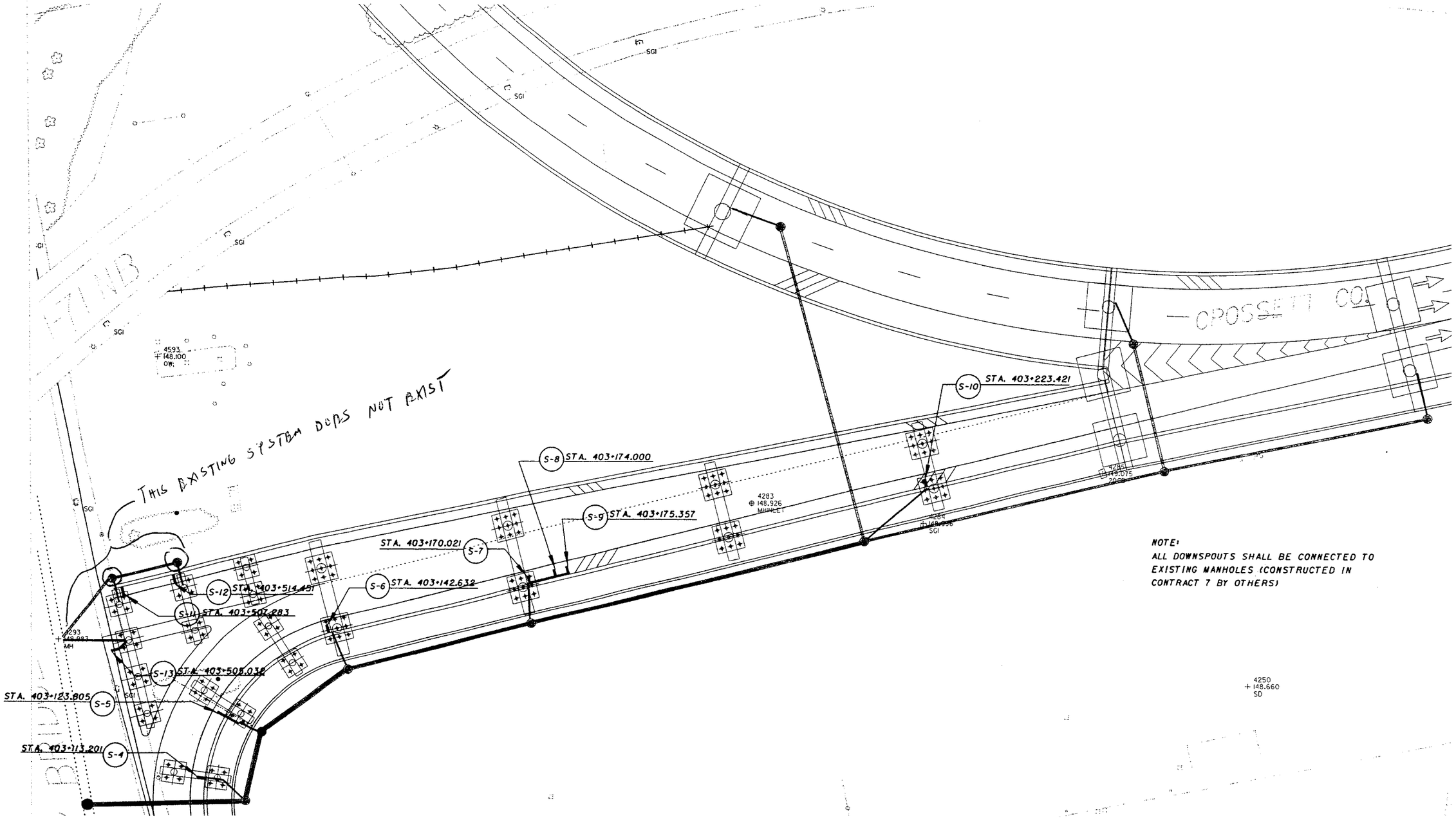
DRAINAGE SUBSUMMARY

CITY OF CINCINNATI
CONTRACT No. 75X5753

16
125



17/125	CITY OF CINCINNATI CONTRACT No. 75X5753	SCUPPER LOCATION PLAN 1 OF 2	DATE 12/01/99 CHECKED	0 2.5 5 10 SCALE IN METERS



NOTE:
ALL DOWNSPOUTS SHALL BE CONNECTED TO EXISTING MANHOLES (CONSTRUCTED IN CONTRACT 7 BY OTHERS)

PB 100 YEARS

SCALE IN METERS 0 2.5 5 10

DATE 12/01/99 CHECKED

SCUPPER LOCATION PLAN 2 OF 2

CITY OF CINCINNATI
CONTRACT No. 75X5753

18/125

i:\byers_prf\solus4\plot\drng03.prf
Wed Dec 08:01:59 1999
12/01/99
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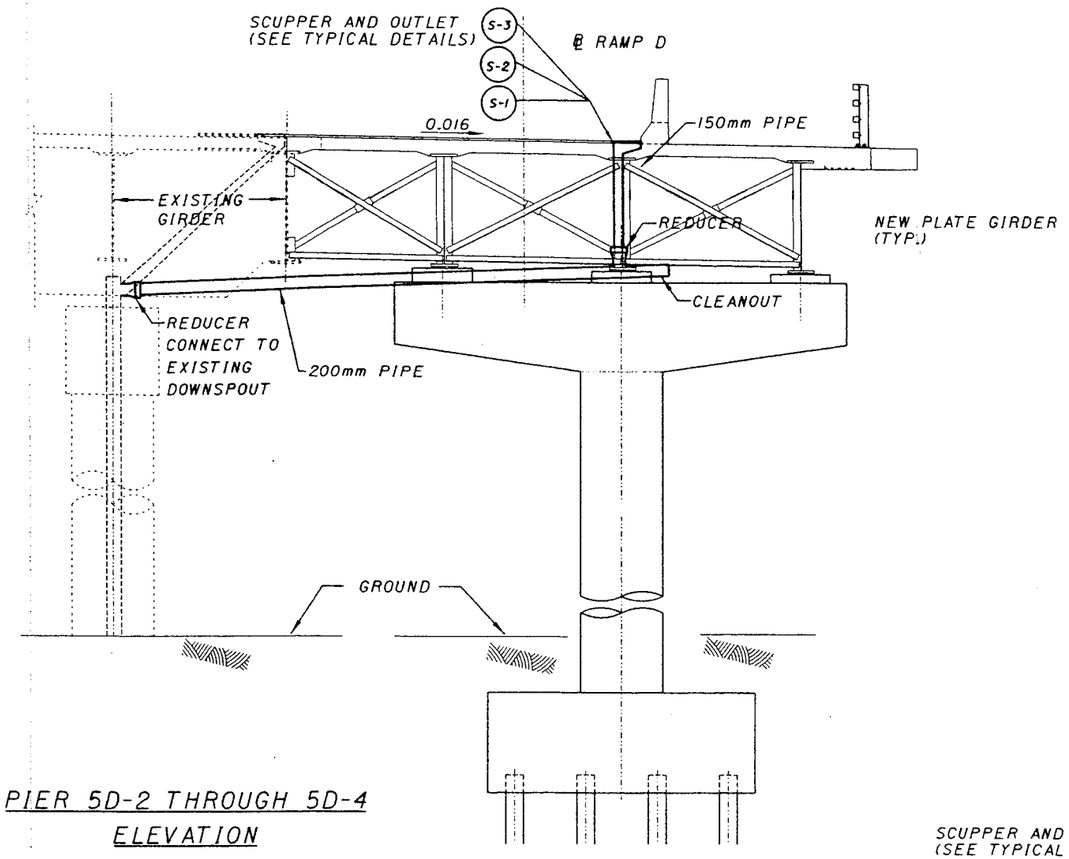
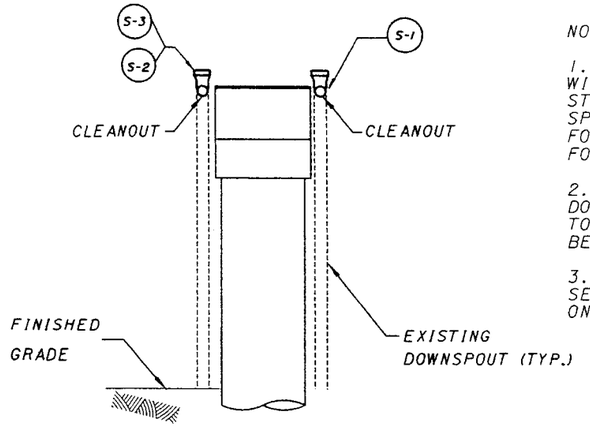


PIER 5D-2 THROUGH 5D-4
ELEVATION



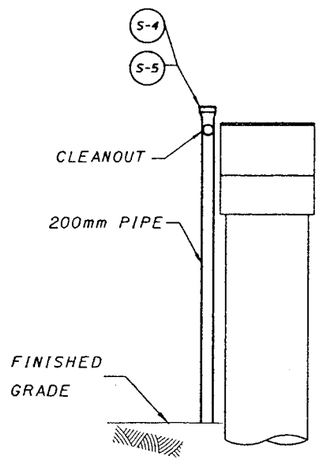
PIER 5D-2 THROUGH 5D-4
END VIEW
LOOKING WEST

NOTES:

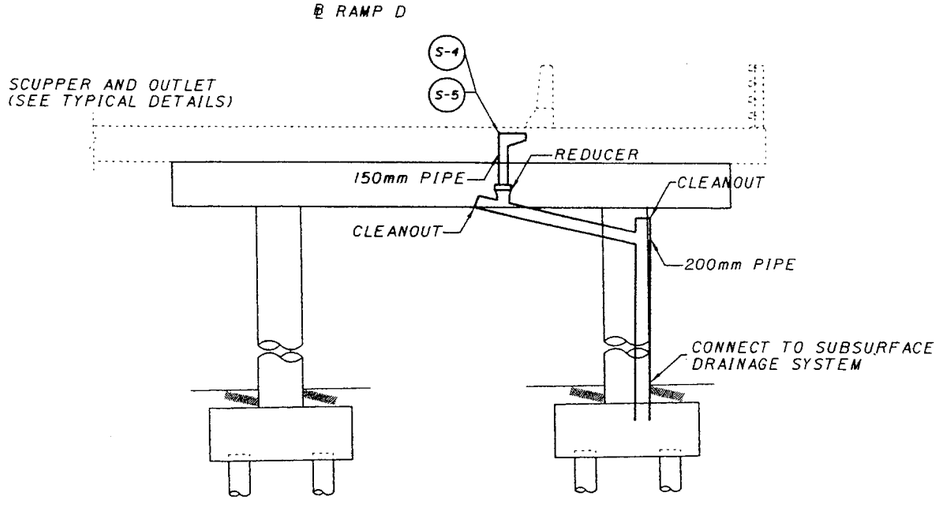
1. DOWNSPOUTS SHALL BE CONNECTED TO CONCRETE WITH 250mm DIAMETER PIPE STRAP WITH 16mm STAINLESS STEEL ADHESIVE ANCHOR (1250mm MAX SPACING). THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING STEEL REINFORCEMENT IN COLUMNS FOR PLACEMENT OF DOWNSPOUT STRAP ANCHORS.

2. A BALL AND SOCKET SHALL BE USED WHERE DOWNSPOUT LOCATION SPANS FROM SUPER STRUCTURE TO SUBSTRUCTURE. THESE JOINTS MAY ALSO BE USED IN THE MIDDLE OF STRAIGHT RUNS OF PIPE.

3. AT LEAST TWO STRAPS MUST BE USED FOR EACH SECTION OF PIPE WITH A BALL AND SOCKET JOINT AT ONE END.



PIER 5D-5 THROUGH 5D-6
END VIEW
LOOKING WEST



PIER 5D-5 THROUGH 5D-6
ELEVATION

PB 100 YEARS

GRAPHIC SCALE 0 0.5 1.0 1.5 2.0 2.5

DATE 12/01/99 CHECKED

DRAINAGE DETAILS - SCUPPER DOWNSPOUTS
1 OF 4

CITY OF CINCINNATI
CONTRACT No. 75X5753

19
125

Wed Dec 08:02:50 1999
12/01/99
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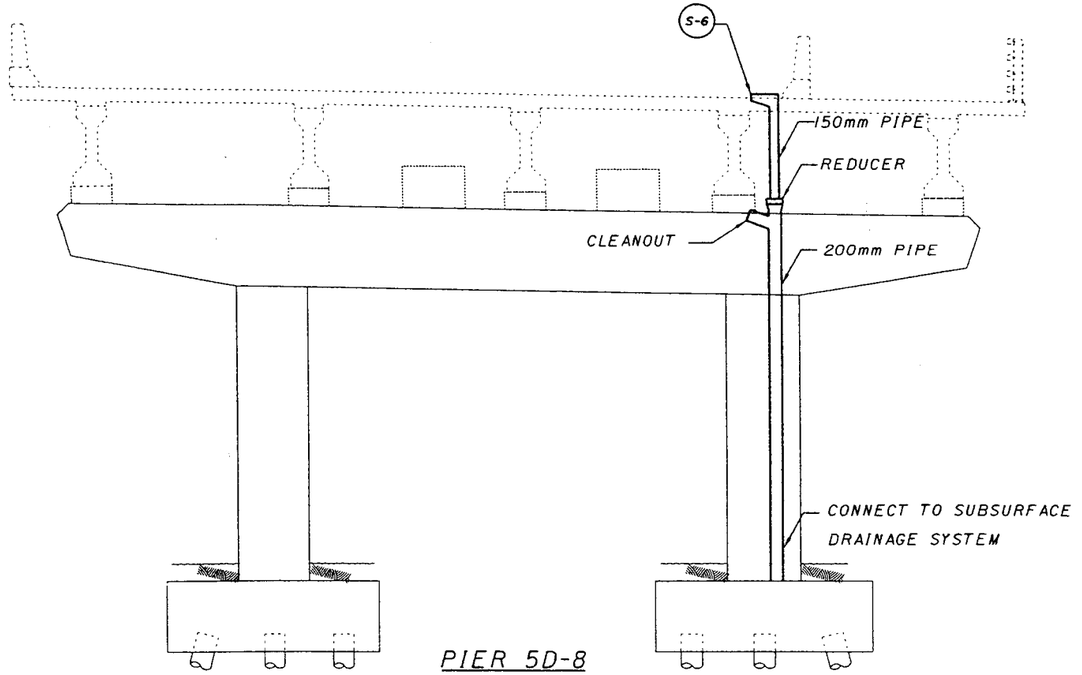
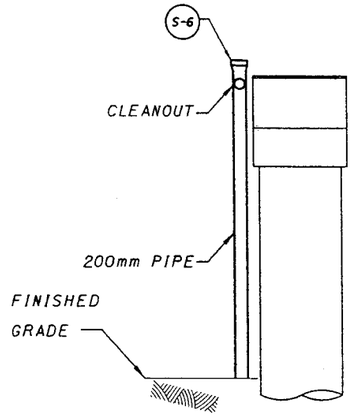


PIER 5D-8
ELEVATION



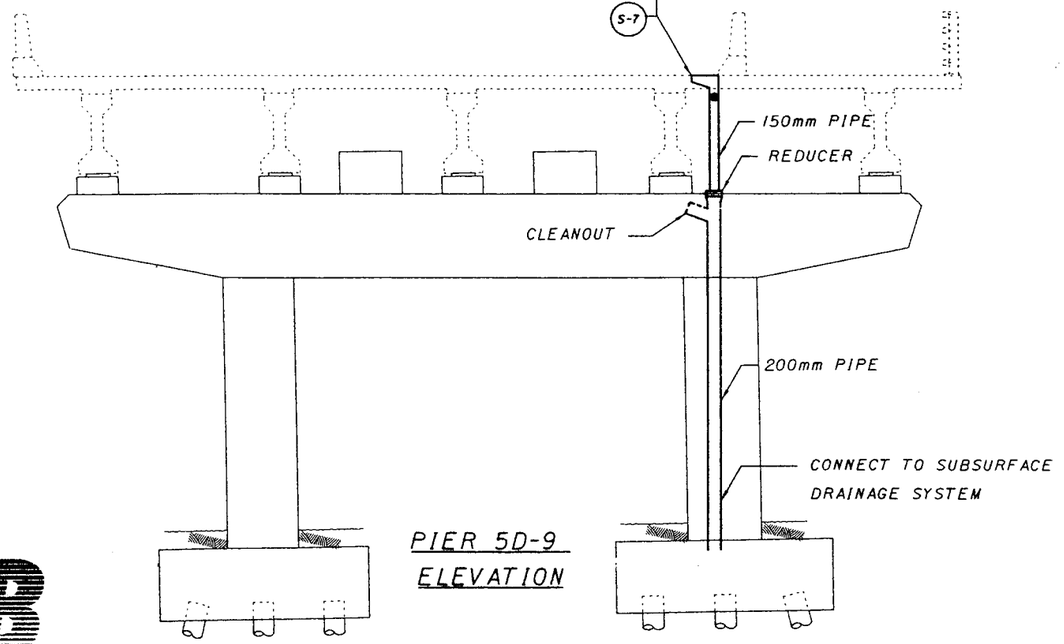
PIER 5D-8
END VIEW
LOOKING NORTH

NOTES:

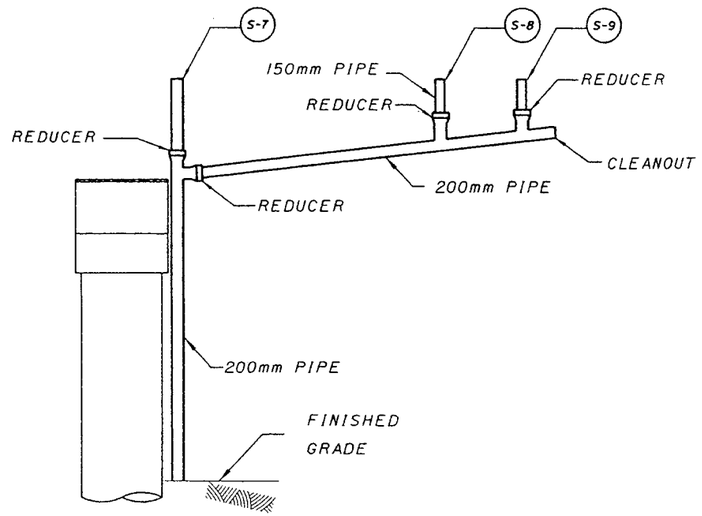
1. DOWNSPOUTS SHALL BE CONNECTED TO CONCRETE WITH 250mm DIAMETER PIPE STRAP WITH 16mm STAINLESS STEEL ADHESIVE ANCHOR (1250mm MAX SPACING). THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING STEEL REINFORCEMENT IN COLUMNS FOR PLACEMENT OF DOWNSPOUT STRAP ANCHORS.

2. A BALL AND SOCKET SHALL BE USED WHERE DOWNSPOUT LOCATION SPANS FROM SUPER STRUCTURE TO SUBSTRUCTURE. THESE JOINTS MAY ALSO BE USED IN THE MIDDLE OF STRAIGHT RUNS OF PIPE.

3. AT LEAST TWO STRAPS MUST BE USED FOR EACH SECTION OF PIPE WITH A BALL AND SOCKET JOINT AT ONE END.



PIER 5D-9
ELEVATION



PIER 5D-9
END VIEW
LOOKING NORTH

PB 100 YEARS

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12/01/99
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N

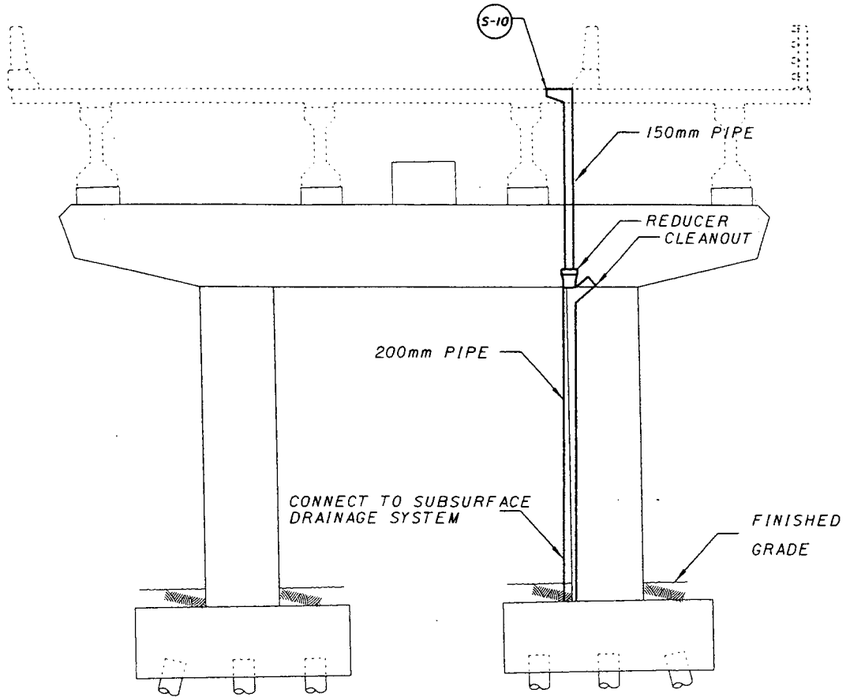
GRAPHIC SCALE 0 0.5 1.0 1.5 2.0 2.5

DATE 12/01/99 CHECKED

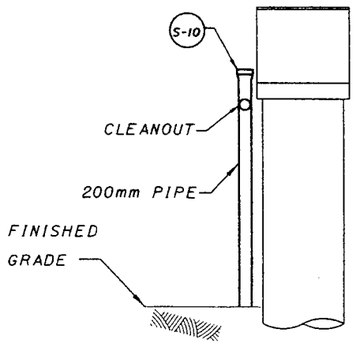
DRAINAGE DETAILS - SCUPPER DOWNSPOUTS
2 OF 4

CITY OF CINCINNATI
CONTRACT No. 75X5753

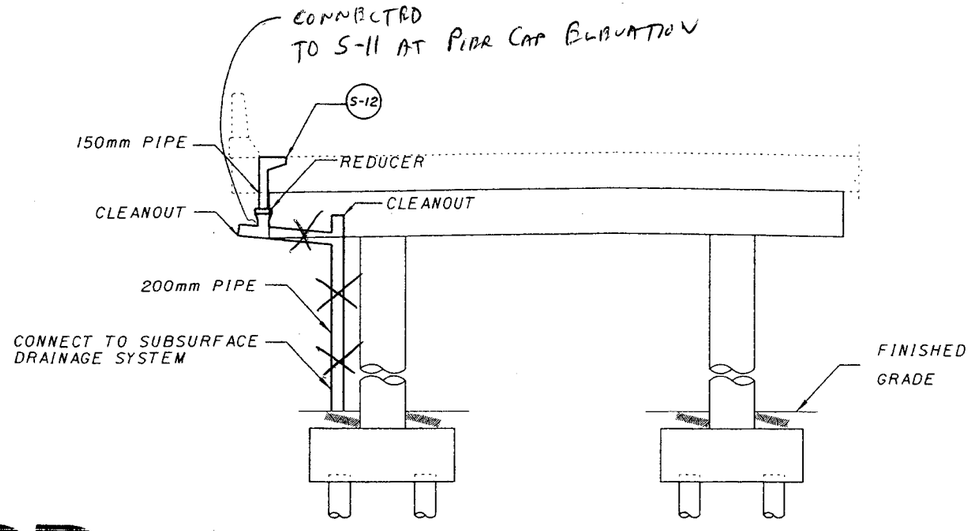
20
125



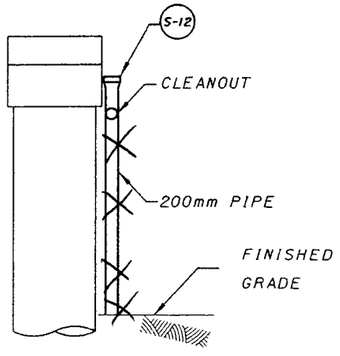
PIER 5D-11
ELEVATION



PIER 5D-11
END VIEW
LOOKING NORTH



PIER 5DI-2
ELEVATION



PIER 5DI-2
END VIEW
LOOKING SOUTH

NOTES:

1. DOWNSPOUTS SHALL BE CONNECTED TO CONCRETE WITH 250mm DIAMETER PIPE STRAP WITH 16mm STAINLESS STEEL ADHESIVE ANCHOR (1250mm MAX SPACING). THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING STEEL REINFORCEMENT IN COLUMNS FOR PLACEMENT OF DOWNSPOUT STRAP ANCHORS.

2. A BALL AND SOCKET SHALL BE USED WHERE DOWNSPOUT LOCATION SPANS FROM SUPER STRUCTURE TO SUBSTRUCTURE. THESE JOINTS MAY ALSO BE USED IN THE MIDDLE OF STRAIGHT RUNS OF PIPE.

3. AT LEAST TWO STRAPS MUST BE USED FOR EACH SECTION OF PIPE WITH A BALL AND SOCKET JOINT AT ONE END.

PB 100 YEARS

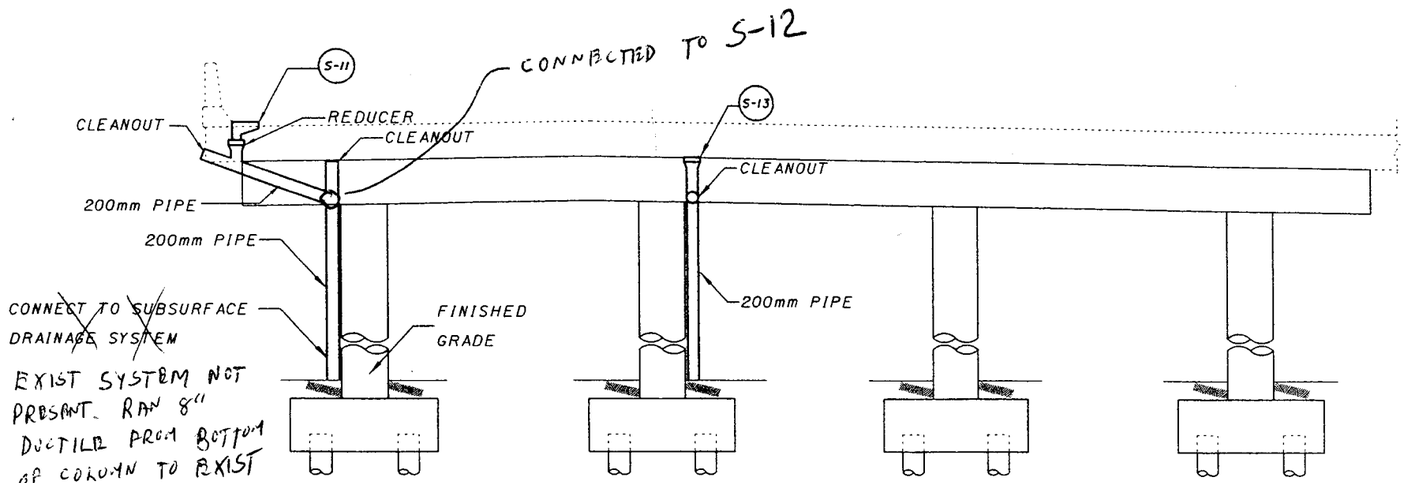
GRAPHIC SCALE 0 0.5 1.0 1.5 2.0 2.5

DATE 12/01/99
CHECKED

DRAINAGE DETAILS - SCUPPER DOWNSPOUTS 3 OF 4

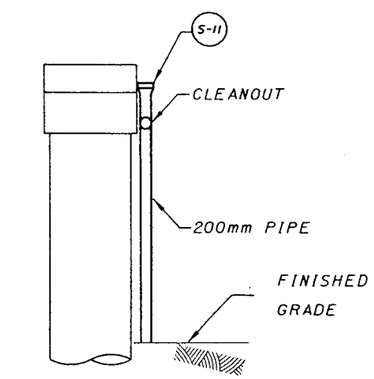
CITY OF CINCINNATI
CONTRACT No. 75X5753

21
125

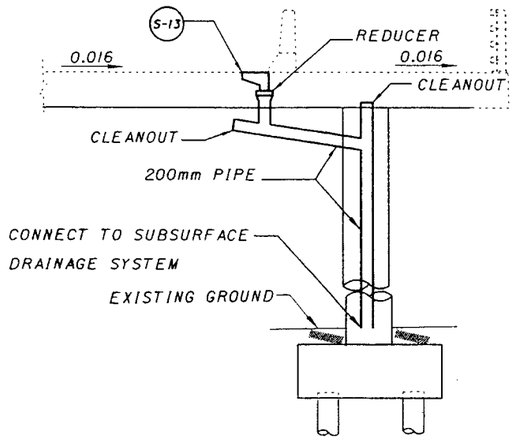


EXIST SYSTEM NOT PRESENT. RUN 8" DUCTILE FROM BOTTOM OF COLUMN TO EXIST MANHOLE WEST OF COLUMN

PIER 5DI-1
ELEVATION



PIER 5DI-1
END VIEW
LOOKING SOUTH



PIER 5DI-1
INTERMEDIATE VIEW
LOOKING NORTH

NOTES:

1. DOWNSPOUTS SHALL BE CONNECTED TO CONCRETE WITH 250mm DIAMETER PIPE STRAP WITH 16mm STAINLESS STEEL ADHESIVE ANCHOR (1250mm MAX SPACING). THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING STEEL REINFORCEMENT IN COLUMNS FOR PLACEMENT OF DOWNSPOUT STRAP ANCHORS.

2. A BALL AND SOCKET SHALL BE USED WHERE DOWNSPOUT LOCATION SPANS FROM SUPER STRUCTURE TO SUBSTRUCTURE. THESE JOINTS MAY ALSO BE USED IN THE MIDDLE OF STRAIGHT RUNS OF PIPE.

3. AT LEAST TWO STRAPS MUST BE USED FOR EACH SECTION OF PIPE WITH A BALL AND SOCKET JOINT AT ONE END.

PB 100 YEARS

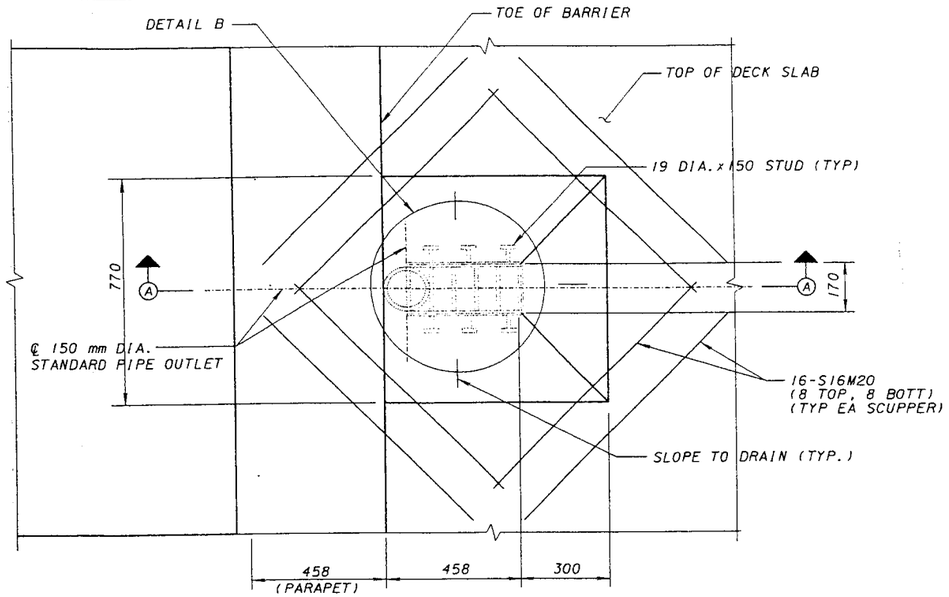
GRAPHIC SCALE 0 0.5 1.0 1.5 2.0 2.5

DATE 12/01/99 CHECKED

DRAINAGE DETAILS - SCUPPER DOWNSPOUTS
4 OF 4

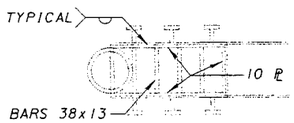
CITY OF CINCINNATI
CONTRACT No. 75X5753

22
125



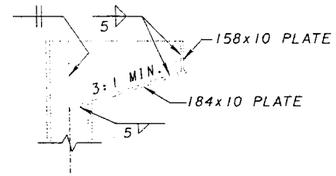
BRIDGE SCUPPER PLAN

NOTE: MAIN DECK REINFORCING NOT SHOWN FOR CLARITY. FIELD CUT LONGITUDINAL DECK REINF. AS NECESSARY AT SCUPPERS.



NET SCUPPER OPENING EQUALS 0.057 SQ. M

DETAIL B
BRIDGE 5B AND 5C



SCUPPER ELEVATION

NOTES:

1. SCUPPERS SHALL BE MADE OF 10mm GALVANIZED STEEL PLATES AND GALVANIZED STRUCTURAL STEEL TUBING AND SHALL CONFORM TO THE INSTALLATION AND MATERIAL REQUIREMENTS OF ODOT CMS 518 AND 711.02.

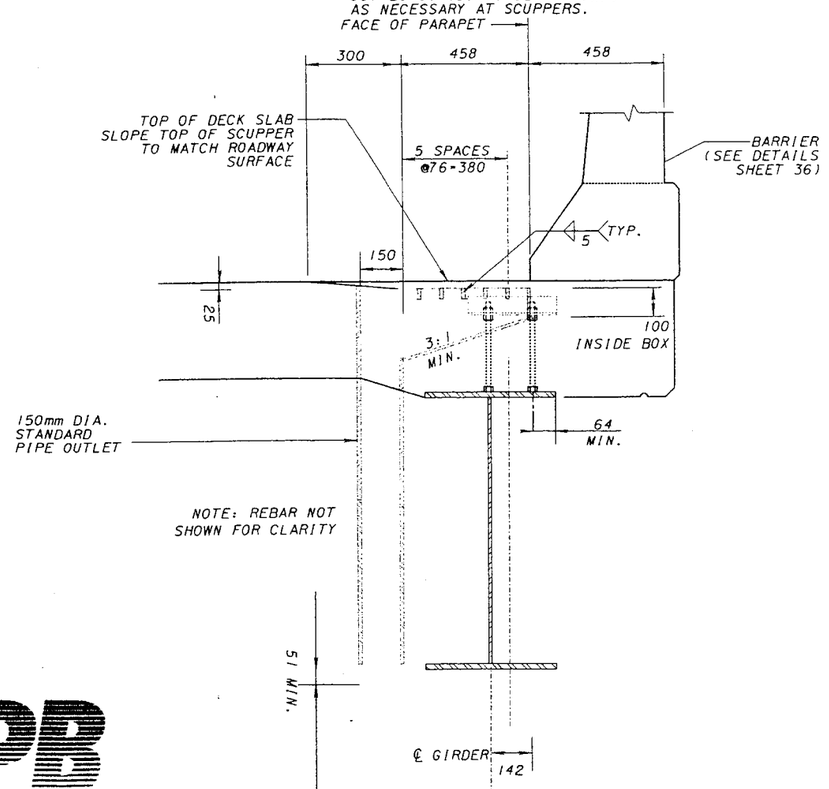
2. ALL DOWNSPOUTS SHALL BE DUCTILE IRON PIPE, CL52 WITH MECHANICAL JOINTS EXCEPT AS NOTED AND SHALL CONFORM TO ODOT CMS 748.01.

3. SCUPPER SHALL BE POSITIONED SO THAT SCUPPER INLET IS FLUSH AGAINST CURB LINE.

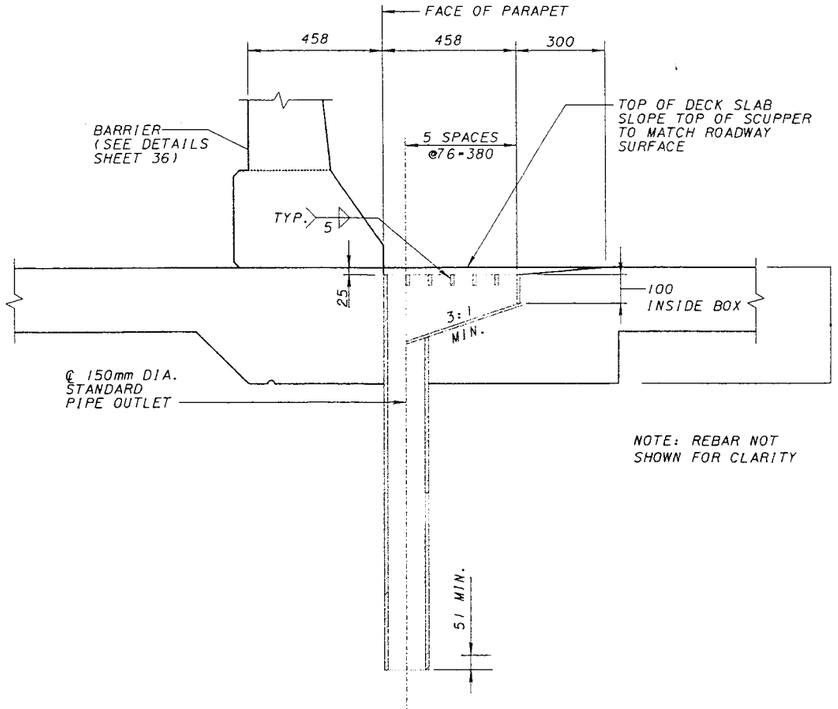
4. A BALL AND SOCKET SHALL BE USED WHERE DOWNSPOUT LOCATION SPANS FROM SUPER STRUCTURE TO SUBSTRUCTURE. THESE JOINTS MAY ALSO BE USED IN THE MIDDLE OF STRAIGHT RUNS OF PIPE.

5. AT LEAST TWO STRAPS MUST BE USED FOR EACH SECTION OF PIPE WITH A BALL AND SOCKET JOINT AT ONE END.

6. GRATING BAR SIZE AND SPACING SHALL CONFORM TO ODOT STANDARD DRAWING GSD-1-96M.



SECTION A-A
BRIDGE 5A



SECTION A-A
BRIDGE 5B AND 5C

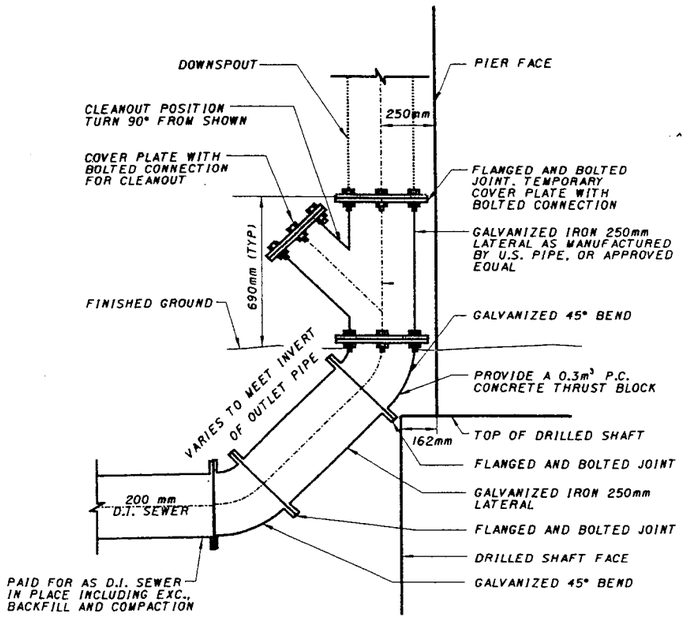
GRAPHIC SCALE 0 0.5 1.0 1.5 2.0 2.5

DATE 12/01/99 CHECKED

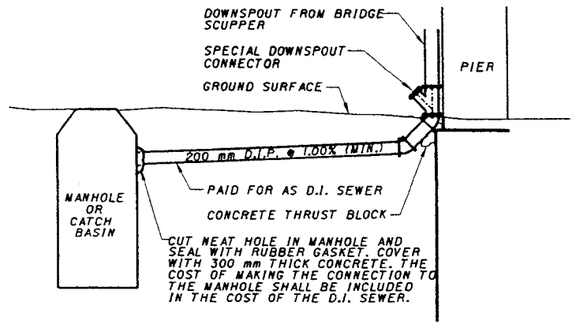
DRAINAGE DETAILS-SCUPPERS

CITY OF CINCINNATI
CONTRACT No. 75X5753

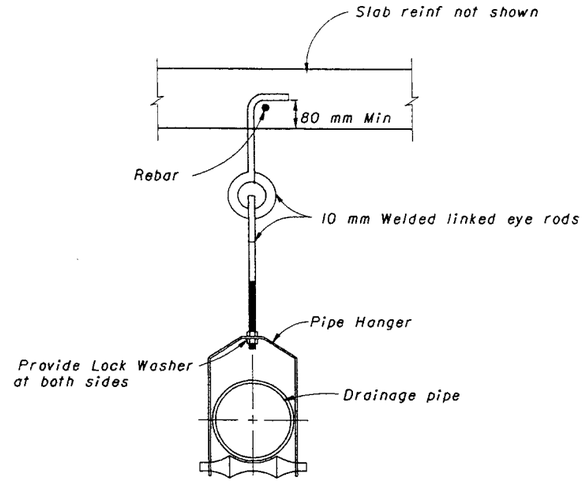
23
125



SPECIAL DOWNSPOUT CONNECTOR DETAIL



BRIDGE DRAINAGE DETAIL



Note: Pipe hangers to be provided at 300 mm max spacing, typ.

DRAINAGE PIPE HANGER

NOTES:

1. THE SPECIAL DOWNSPOUT CONNECTOR SHALL BE PAID FOR AS A COMPLETE UNIT IN PLACE. THE UNIT PRICE SHALL INCLUDE ALL COMPONENTS AND ALL LABOR.
2. CONTRACTOR SHALL CONNECT DOWNSPOUT PIPE TO CONNECTOR PIPE AT BOTTOM OF PIER.
3. ALL COMPONENTS OF THE SPECIAL DOWNSPOUT CONNECTOR SHALL BE GALVANIZED.

PB 100 YEARS

GRAPHIC SCALE 0 0.5 1.0 1.5 2.0 2.5

DATE 12/01/99 CHECKED

DRAINAGE DETAILS

CITY OF CINCINNATI
CONTRACT No. 75X5753

24
125

PT 403+782.736

℄ CWB

3" RMC
Support by expansion Anchors to underside of existing deck

~~JUNCTION BOX~~
~~18"x18" pullbox~~
~~City Std. "B" on ES-2-1~~

Signal Support Pole
Ramp DI Sta. 403+510.000
6.800 LT
D-280mm,h-7620mm

Pedestal Foundation
(City Std. 25 on ES-1-2)
RampDI Sta.403+510.000
2.800 RT
Structure mounted

POT 403+533.38

℄ RAMP DI

℄ RAMP B

℄ Ramp D

403+200

Cont. 7

Contract 14

POT 403+500.000

403+500

Ex.
Boulevard
Light

Combination
Signal Support Pole
CWB Sta. 403+742.102
16.902 LT.
Structure mounted
(See Lighting Plan)
See note 3.
D-280mm,h-7620mm

Combination
Signal Support Pole
CWB Sta. 403+725.000
16.500 LT
Structure mounted
See note 3
D-280mm,h-7620mm

West edge of existing bridge

403+143.642

3" RMC

CONDUIT STUB
18"x18" pullbox
City Std. "B" on ES-2-1

Combination Signal Support Pole
Ramp D Sta. 403+113.951
Structure mounted
(See lighting plan)
D=330mm,h=8640mm

PC 403+103.927

MESSANGER CABLE W/LED SIGN

CLAY WADE BAILEY BRIDGE

403+700

102mm
305mm
914mm
(10)FO 115mm
(12)E-DUCT
(10)FO
254mm

PIER CA #19 STRAIN POLE MOVED PROM 403+742.102 (16.902 LT) TO 403+725.000 (16.500 LT) MESSANGER CABLE ADDED BETWEEN POLES 403+725.000 (16.5 LT) AND 403+113.951 RT AND LED SIGN ADDED TO MESSANGER CABLE

NOTES :

1. Structure Mounted Poles at CWB, Sta. 403+742.102 and at Ramp D, Sta. 403+113.951 shalll be paid for under ligting quantities.
2. For details of signal poles,see City of Cincinnati std. drg. no. ES-10-1.
3. For Pole support at CWB Bridge, see sheet 84A/125.

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	Pullboxes added	12-22-99	JCN

CALCULATED MY CHECKED

HORIZONTAL SCALE IN METERS 0 2.5 5 10

TRAFFIC SIGNAL PLAN

CITY OF CINCINNATI
CONTRACT No. 75X5753

ADDENDUM NO. 1
DECEMBER 22, 1999

25/125

DISPOSAL OF EXISTING EQUIPMENT ⚠1

Reversible lane-use control signs and poles removed as a result of this project shall be protected from damage or theft and turned over to District 6 of the Kentucky Transportation Cabinet.

KYTC will pick up equipment on the site. Arrangements must be made by calling James Shea or Bill Madden of KYTC at (606) 341-2700.

*EXISTING PAVEMENT MARKINGS TO REMAIN UNLESS OTHERWISE NOTED

EXISTING PAVEMENT MARKINGS (3) TO BE REMOVED FROM SOUTH END OF LINE TO STA 403+804.337

EXISTING PAVEMENT MARKING TO BE REMOVED FROM STA. 403+734.575 TO STA. 403+777.807

EXISTING PAVEMENT MARKING TO BE REMOVED FROM STA. 403+646.425 TO STA. 403+804.337

EXISTING REVERSIBLE LANE USAGE SIGNS

⚠1
After luminarie is transferred from pole on west side,

1. Disconnect electric cable for reversible lane signs at junction box in barrier wall at base of pole.
2. Remove disconnected cable, both poles, messenger and reversible lane-use signs.

END SIGNING AND AND PAVEMENT MARKING WORK STA. 403+249.800

℄ Ramp D

POT 403+810.667
POT 403+782.734
POT 403+533.383
POT 403+500.000
403+500
403+200
403+143.642
403+100
403+000
POT 403+299.330
POT 403+021.776
POT 402+999.071
PC 403+103.927
PC 403+400.000

LL-4, EL-3, CL-1, PM-1, PM-2, PM-3, CW-1, CW-2, CH-3, CH-6, TR-1, CH-5, CW-3, CW-4, CH-2, PM-6, PM-5, PM-4, CH-1, LL-1, EL-1, EL-2

YIELD 3S P-2 STA. 403+147.893

2S W-76AP STA. 403+121.043

1S W-76P STA. 403+081.287 LOCATED ON POLE

BEGIN SIGNING AND AND PAVEMENT MARKING WORK STA. 402+999.071

⚠1
1. Install new 8 mm messenger between existing pole on west side of bridge and new pole on east side.
2. Transfer reversible lane use signs and conductor cable from existing messenger cable to new messenger.
3. Remove existing messenger and existing east pole.

NOTE: CA#13 ADDED 15 ea. RAISED PAVEMENT MARKERS PER ODOT STANDARD DRWGS. TC65.10M. TC65.11M AND TC65.12M

LEGEND

- CH-1 CHANNELIZATION LINE
- CL-1 CENTER LINE
- CW-1 CROSSWALK LINE
- EL-1 EDGE LINE
- LL-1 LANE LINE
- PM-1 LANE USAGE SYMBOL
- TR-1 TRANSVERSE LINE

PB 100 YEARS

REVISION NO.	DESCRIPTION	DATE	BY
⚠1 ADDENDUM	Notes Added	12-29-98	JCN

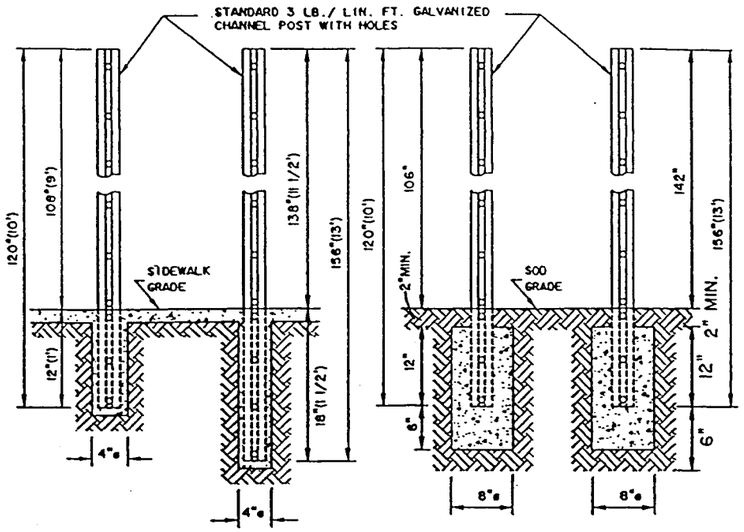
DATE 12/21/99 CHECKED

SCALE IN METERS 0 5 10 20

SIGNING AND PAVEMENT MARKING PLAN

CITY OF CINCINNATI
CONTRACT No. 75X5753

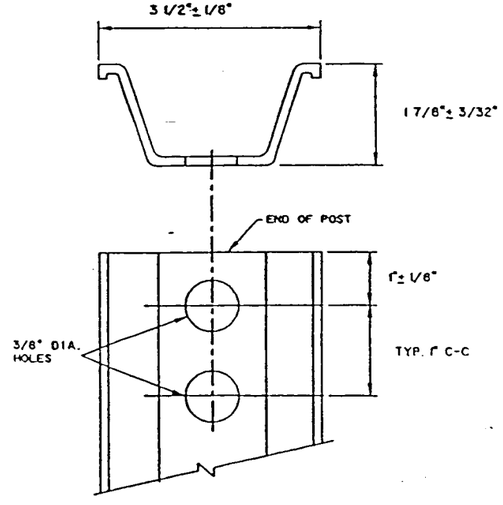
ADDENDUM NO. 1
DECEMBER 22, 1999



CONCRETE BURIAL EARTH BURIAL

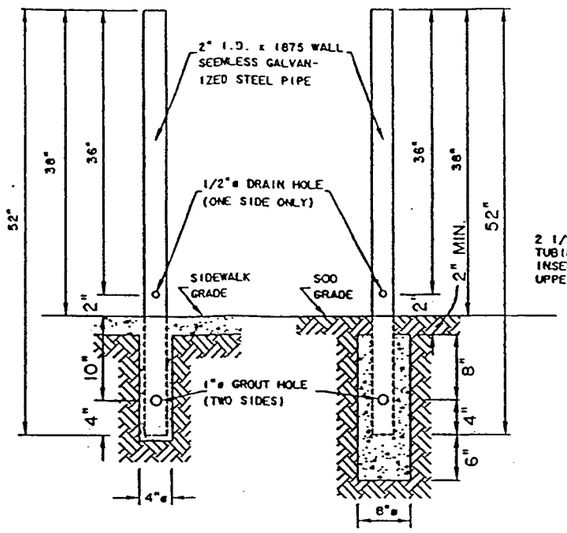
1. THE CONCRETE SHALL BE POURED INTO THE HOLE OR MOLD. THEN THE CHANNEL POST SHALL BE WORKED INTO THE CONCRETE TO THE REQUIRED DEPTH.
2. THE CHANNEL SHALL BE INSTALLED A MIN. OF 24" FROM THE CURB FACE.
3. THE 10' CHANNEL POST SHALL BE USED FOR A SINGLE 24" LENGTH SIGN OR SMALLER.
   THE 13' CHANNEL POST SHALL BE USED FOR SIGNS WITH GREATER THAN 24" LENGTH OR MORE THAN ONE (1) SIGN ON THE SAME SIDE PER CHANNEL POST.
4. THE CHANNEL POST SHALL BE POSITIONED AS TO EITHER 45° OR 90° DEPENDING ON THE TYPE OF SIGN OR SIGNS TO BE INSTALLED. SEE DRAWING ES-6-1.

CHANNEL POLE INSTALLATION



CHANNEL POST DETAIL

3 LB./ LIN.FT. GALVANIZED

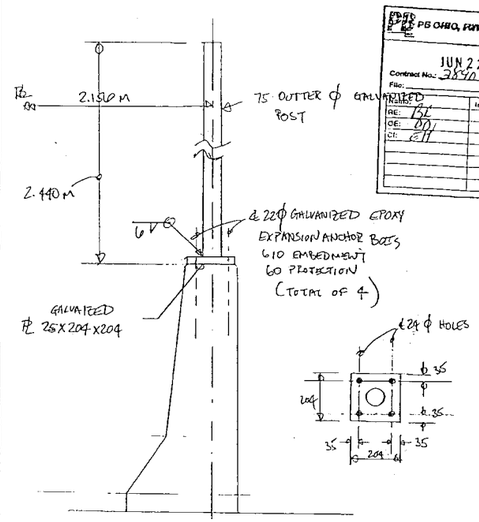


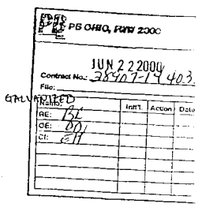
CONCRETE BURIAL EARTH BURIAL

1. THE CONCRETE SHALL BE POURED INTO THE HOLE OR MOLD. THEN THE METER POST SHALL BE WORKED INTO THE CONCRETE TO THE REQUIRED DEPTH.
2. THE METER POST SHALL BE INSTALLED A MIN. OF 18" FROM THE CURB FACE.

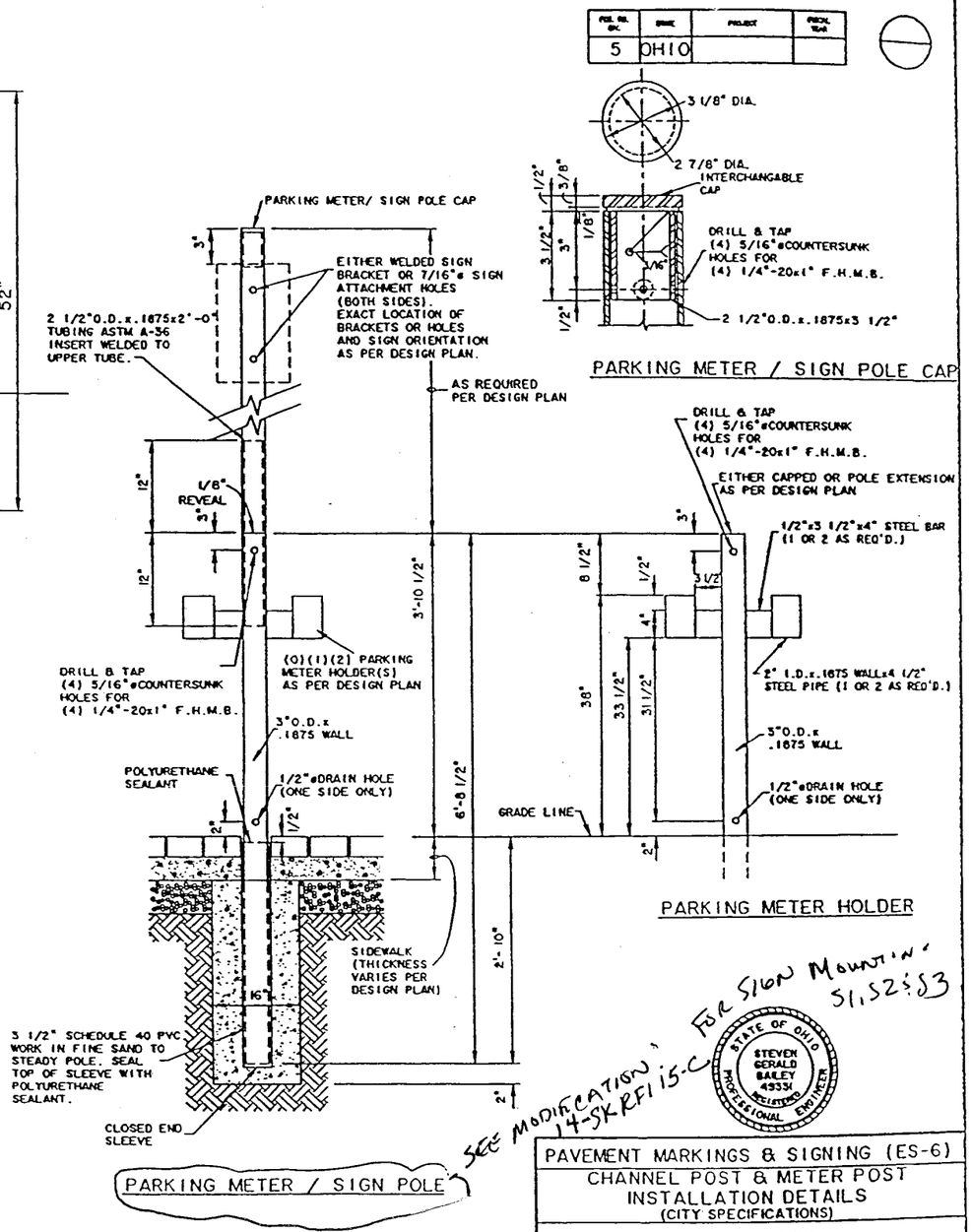
PARKING METER POST INSTALLATION

SIGN 1S STATION 403+081.287 OFFSET 2.156m RT
2S STATION 403+121.093 OFFSET 2.156m RT
3S STATION 403+147.893 OFFSET 2.156m RT





14-SK RFI 15-C 6/21/00



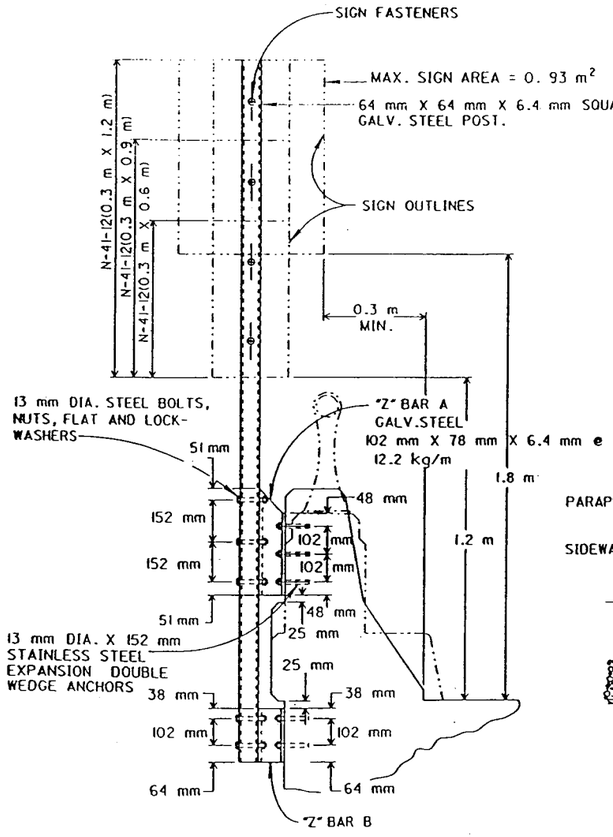
SEE MODIFICATION 14-SK RFI 15-C FOR SIGN MOUNTING 51,52&53

STATE OF OHIO STEVEN GERALD BAILEY 49334 REGISTERED PROFESSIONAL ENGINEER

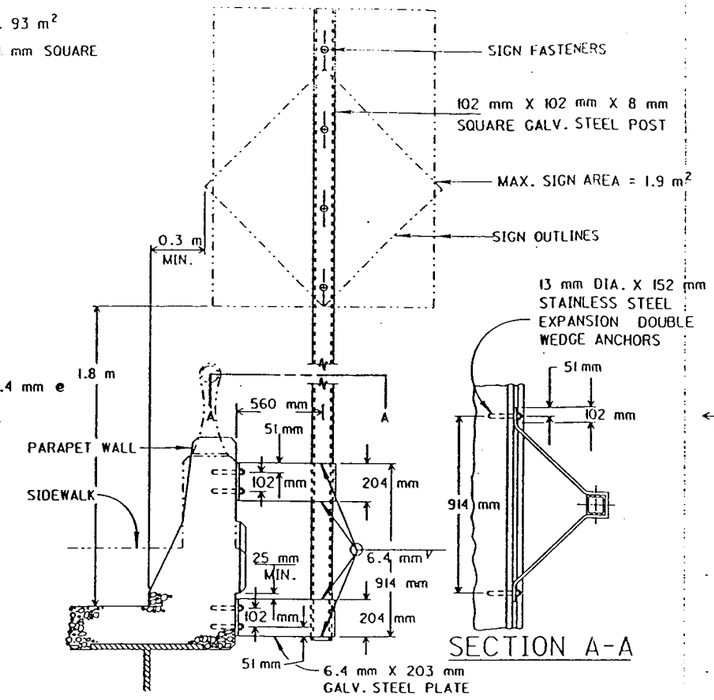
PAVEMENT MARKINGS & SIGNING (ES-6)			
CHANNEL POST & METER POST INSTALLATION DETAILS (CITY SPECIFICATIONS)			
CITY OF CINCINNATI DEPT. OF PUBLIC WORKS DIV. OF TRAFFIC ENGR.			
APPROVED Steve Bailey DATE 3-4-99			
T.E.		3/1/98	
DESIGN	REVISION APPROVED	DATE	NO. #
		12/09/94	

SCALE	REVISION	DRAWN	FILE NO.
—		VGRD	ES-6-2

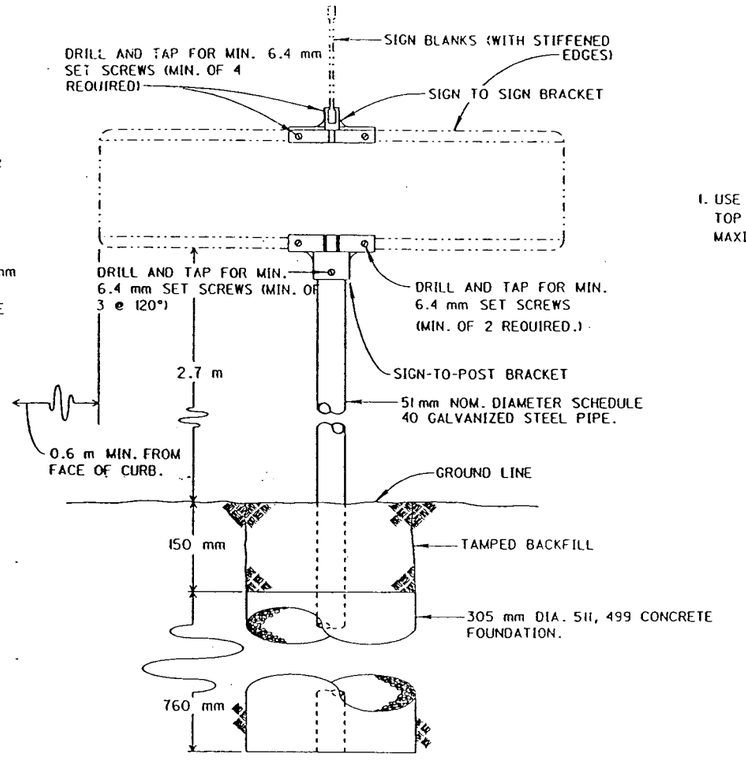
27A/125



SIGN SUPPORT ASSEMBLY, BRIDGE MOUNTED, TYPE 1.



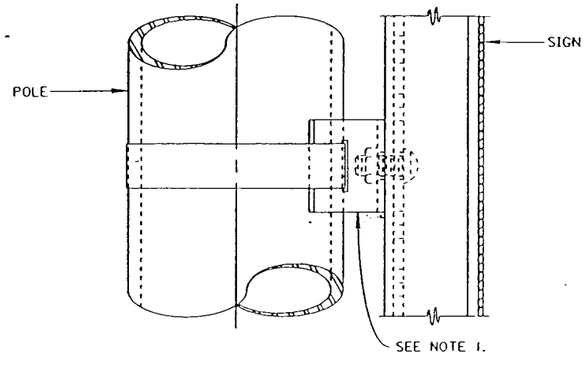
SIGN SUPPORT ASSEMBLY, BRIDGE MOUNTED, TYPE 2.

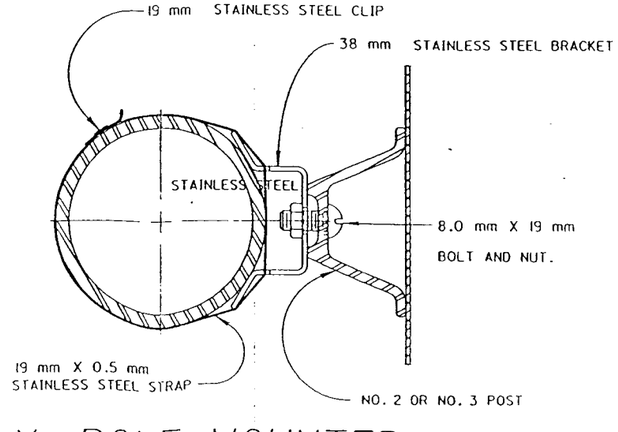


STREET NAME SIGN SUPPORT

NOTES

1. USE MINIMUM OF 2 BRACKETS (LOCATED 150 mm FROM TOP AND BOTTOM OF SIGN) PER INSTALLATION WITH MAXIMUM SPACING OF 0.9 m.





SIGN SUPPORT ASSEMBLY, POLE MOUNTED

METRIC

BUREAU OF DESIGN SERVICES
DIVISION OF HIGHWAYS
OHIO DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL	DATE 03/31/94
SPECIAL SIGN ATTACHMENTS AND SUPPORTS	27B/125
STANDARD CONSTRUCTION DRAWING	TC-41.40M

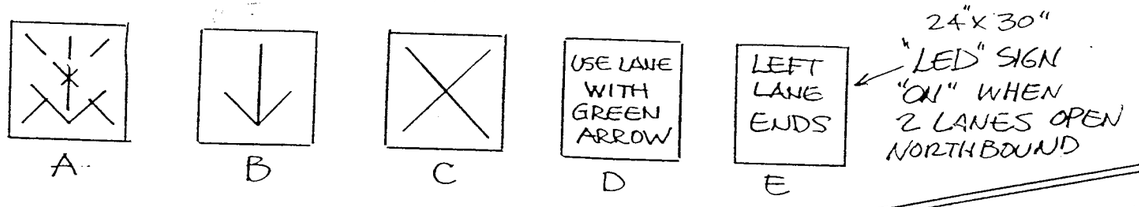
APPROVED _____ ENGR. OF DESIGN SERVICES

N

REV LN
STA 8

BAILEY BRDG

72 74 76 78



24"x 30"
"LED" SIGN
"ON" WHEN
2 LANES OPEN
NORTHBOUND

4" SOLID DOUBLE YELLOW CENTERLINE

PROP. SIGN POLE
38045
11"x 30'

BAILEY BRDG

80

4" WHITE EDGE LINE

4" DASHED DOUBLE YELLOW

4" WHITE LANE LINE

8" WHITE CHANNELIZING LINE

PROP. LIGHT/SIGNAL POLE
#72025
13"x 34'

12" YELLOW TRANSVERSE LINE (12'c/c)

SECOND ST

BAILEY

25'

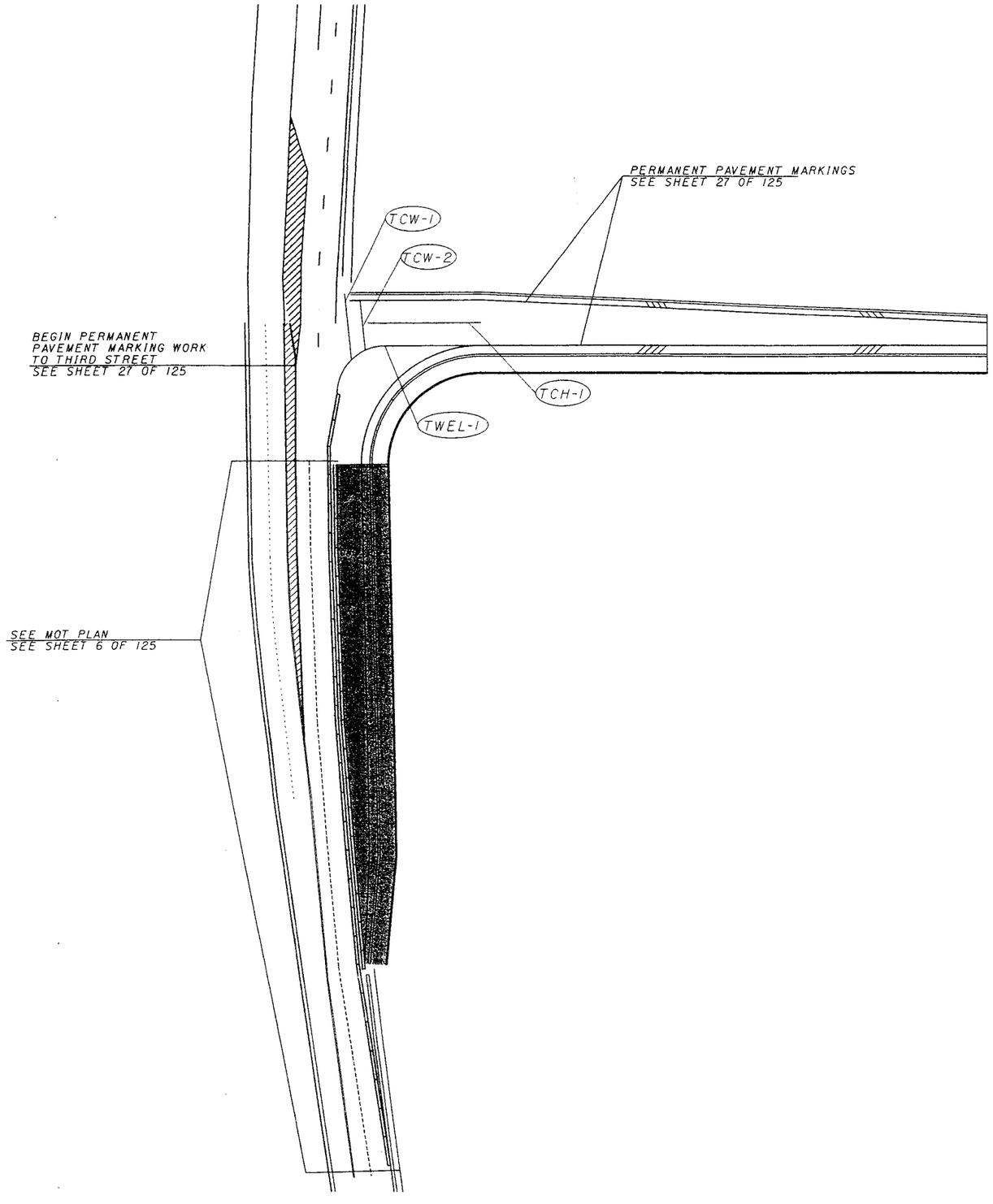
10'

75'

40'

25'

WELCOMES YOU | 25 S | RAZS | PIZZ | LIMIT 35



LEGEND

- UNDER CONSTRUCTION
- TCH-1 TEMPORARY CHANNELIZING LINE
- TCW-1 TEMPORARY CROSSWALK
- TWEL-1 TEMPORARY WHITE EDGE LINE

PB 100 YEARS

SCALE IN METERS 0 5 10 20

DATE 10/22/99 CHECKED

CITY OF CINCINNATI
CONTRACT No. 75X5753

SIGNING AND PAVEMENT
MARKING PLAN - INTERIM STAGE

28
125

12/01/99 Wed Dec 1 11:57:50 1999

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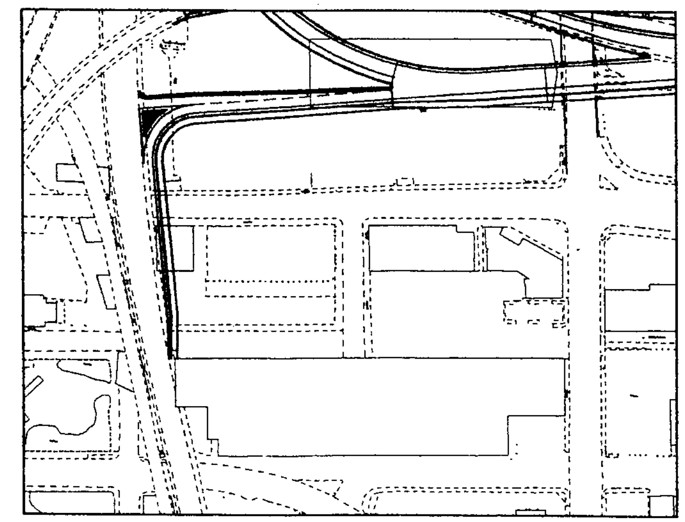
I:\kw\contracts\14\dgn\sheets\pmpls1401.dgn



SEE PLAN SHEET 4/5

LEGEND

Symbol	Description
●—●	LIGHT POLE, 11.2 m OR 12.2 m SUPPORT HEIGHT, 1.0 m ARM, LUMINAIRE CONVENTIONAL, TYPE III, 400 WATT HPS (HIGH PRESSURE SODIUM) CUT-OFF
●—○	LIGHT POLE, 12.2 m SUPPORT HEIGHT, 6.1 m ARM, LUMINAIRE CONVENTIONAL, STYLE B, TYPE III, 310 WATT HPS (HIGH PRESSURE SODIUM) 480 VOLT
○—○	EXISTING LIGHT POLE
▲	PROPOSED POWER SERVICE
——	PROPOSED CIRCUIT - DISTRIBUTION CABLE IN CONDUIT

INDEX OF SHEETS

STATION	OFFSET FROM PAVEMENT EDGE	CIRCUIT NUMBER - POLE NUMBER	(43) SUBSUMMARY REFERENCE NUMBER

TYPICAL POLE IDENTIFICATION

Tue Nov 30 15:05:05 1999
USER: Puthoff
DES.FILE: M:±DGN±430000±contr±14±LDEX14OI.DGN
PRF NAME: M:±DGN±430000±contr±14±Ldex14OI.prf
ACTIVE LEVELS ON: 1-62

STATE OF OHIO JOSEPH PAUL PROFESSIONAL ENGINEER

GRAPHIC SCALE IN METERS 0 20 40 60 80 1:2000

LIGHTING INDEX SHEET

CITY OF CINCINNATI
CONTRACT No. 75X5753

CALCULATED LEP
CHECKED JPO

LIGHTING GENERAL NOTES

CITY OF CINCINNATI
CONTRACT No. 75X5753

2/5

30/125

STRUCTURE MOUNTED COMBINATION POLES

STRUCTURE MOUNTED COMBINATION POLES SHALL BE AS PER CITY OF CINCINNATI STANDARD DRAWING ES-10-1 EXCEPT FOR THE FOUNDATION. FOR MOUNTING DETAILS SEE STRUCTURAL DRAWINGS.

POWER SERVICE, AS PER PLAN

⚠1 POWER SERVICE EQUIPMENT SHALL BE INSTALLED AS SPECIFIED IN THE ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS AND ON STANDARD CONSTRUCTION DRAWING HL-40.10M.

SERVICE SHALL BE 240/480 VOLT, 3-WIRE, GROUNDED NEUTRAL. CONTROL CENTERS SHALL BE SINGLE ENCLOSURE TYPE SC XX WITH DISTRIBUTION PANEL FOR TERMINATING MULTIPLE CIRCUIT CONDUCTORS. EACH ENCLOSURE SHALL BE CONNECTED TO ITS ASSOCIATED PULL BOX WITH 76 mm CONDUIT. A PHOTO ELECTRIC CELL SHALL BE PROVIDED FOR EACH CONTROL CENTER. MOUNT PHOTOCELL ON TOP OF NEARBY LIGHT POLE WHICH IS LOCATED IN OPEN AIR WITH NO SHADOWING OR STRAY LIGHT AIMED AT IT. RATINGS OF CONTROLLERS SHALL BE IN ACCORDANCE WITH POWER SERVICE DATA TABLE. PROVIDE STEP-UP TRANSFORMER, SIZE AS INDICATED IN POWER SERVICE DATA TABLE, TO CONVERT 208 VOLT PRIMARY VOLTAGE TO THE INDICATED SECONDARY VOLTAGE. CONTRACTOR IS RESPONSIBLE FOR SUPPLYING SERVICE FROM NEAREST C.G.&E. SOURCE.

UPON COMPLETION OF THE PROJECT, THE ENERGY ACCOUNT SHALL BE PAID CURRENT AND THE ACCOUNT TRANSFERRED TO THE MAINTAINING AGENCY SPECIFIED IN THE CONTROL CENTER SCHEDULE. IN ADDITION TO THE REQUIREMENTS OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF ALL CHARGES MADE BY THE POWER COMPANY FOR THE ESTABLISHMENT OF ELECTRICAL SERVICE AT EACH POINT SPECIFIED IN THE PLANS.

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:

CINCINNATI GAS & ELECTRIC COMPANY
FOURTH AND MAIN STREETS, P.O. BOX 960
CINCINNATI, OHIO 45201
(513) 287-1366

PAYMENT SHALL BE MADE FOR "ITEM 625 - POWER SERVICE, AS PER PLAN", INSTALLED AS DESCRIBED ABOVE AND SHALL INCLUDE ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THE JOB IN A SATISFACTORY WORKMAN-LIKE MANNER.

PADLOCKS AND KEYS

PADLOCKS FURNISHED SHALL BE EITHER BRASS OR BRONZE, MASTER NO. 4BKA OR WILSON BOHANNAN 660A, OR EQUAL, AS APPROVED BY THE ENGINEER, AND SHALL BE KEYED IN ACCORDANCE WITH SPECIFICATION 631.08, PARAGRAPH 3. PAYMENT SHALL BE INCLUDED IN THE BID ITEM(S) BEING LOCKED.

HIGH VOLTAGE TEST

THIS TEST SHALL BE CONDUCTED ACCORDING TO THE CONSTRUCTION AND MATERIAL SPECIFICATIONS. A LUMP SUM PAYMENT HAS BEEN INCLUDED IN THE GENERAL SUMMARY.

LUMINAIRES

IN ADDITION TO THE REQUIREMENTS OF THE DEPARTMENT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, LUMINAIRES SHALL BE AS FOLLOWS:

LOW PROFILE, CUT-OFF, FLAT GLASS, IES DISTRIBUTION TYPE III, AS MANUFACTURED BY AMERICAN ELECTRIC, MODEL NO. 153-06643-AJ, TEST *AE38191, OR EQUAL AS APPROVED BY THE ENGINEER. THE INTEGRAL HIGH PRESSURE SODIUM BALLAST SHALL BE OF A REGULATOR TYPE RATED FOR 480 VOLTS, 400 WATTS. HOUSING FINISH SHALL BE A BAKED ON POWDER COAT PROCESS WITH A MINIMUM THICKNESS OF 6 MILS, CUSTOM COLOR AS DIRECTED BY THE ENGINEER.

CONVENTIONAL, STYLE B, TYPE III, 310 WATT HIGH PRESSURE SODIUM, 480 VOLT: AMERICAN ELECTRIC SERIES 125/126, TEST *AE38461; GENERAL ELECTRIC M400-R2, TEST *GE7318; OR EQUAL AS APPROVED BY THE ENGINEER.

713.14 LAMPS

HIGH PRESSURE SODIUM LAMPS SHALL BE GENERAL ELECTRIC "LUCALOX", PHILIPS "CERAMALUX", SYLVANIA "LUMALUX", OR EQUAL APPROVED BY THE ENGINEER.

EXPANSION FITTINGS

EXPANSION FITTINGS FOR STEEL CONDUIT SHALL BE OZ TYPE AX-200, CROUSE HINDS TYPE XJ-64, APPLETON TYPE XJ-200-4, OR EQUAL APPROVED BY THE ENGINEER. EACH EXPANSION FITTING SHALL HAVE A COPPER BONDING JUMPER. PAYMENT FOR EXPANSION FITTINGS SHALL BE INCLUDED WITH THE RELATED CONDUIT.

ITEM 202 - DISCONNECT EXISTING CIRCUIT

THIS ITEM OF WORK SHALL CONSIST OF DISCONNECTING AN EXISTING CIRCUIT IN AN EXISTING LIGHT POLE AT THE LOCATIONS SHOWN ON THE PLAN.

DISCONNECTIONS IN LIGHT POLES SHALL CONSIST OF REMOVING THE ENDS OF CABLES OF CIRCUITS TO BE ABANDONED. THOSE ENDS OF CONNECTOR KITS FROM WHICH THE ABANDONED CABLES ARE REMOVED SHALL BE PLUGGED AND TAPED SHUT.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR EACH ITEM 202 - DISCONNECT EXISTING CIRCUIT, AND SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, AND INCIDENTALS REQUIRED FOR COMPLETING THE WORK SATISFACTORILY.

PAYMENT WILL ALSO INCLUDE THE REMOVAL OF THE WALL MOUNTED LUMINAIRES AS SHOWN IN THE PLANS.

AN ESTIMATED QUANTITY OF 3 ITEM 202 - DISCONNECT EXISTING CIRCUIT, HAS BEEN INCLUDED IN THE GENERAL SUMMARY.

ITEM 625 - LIGHTING, MISC.: RECONNECT EXISTING CIRCUIT C-222M

THIS ITEM SHALL CONSIST OF PROVIDING AND INSTALLING CONDUITS, MOUNTINGS, FITTINGS, CABLE, JUNCTION BOXES, AND ALL INCIDENTALS NECESSARY TO COMPLETE, READY FOR USE, THE SERVICE BETWEEN THE EXISTING LIGHT POLES CWBB-1 AND CWBB-4 ON THE CLAY WADE BAILEY BRIDGE AT THE LOCATION SHOWN ON THE PLAN IT SHALL INCLUDE PAYMENT FOR ALL EQUIPMENT, LABOR AND MATERIALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED. COMPONENT PARTS NOT SPECIFICALLY MENTIONED BUT REQUIRED FOR SATISFACTORY OPERATION OF THIS ITEM SHALL BE FURNISHED AND CONSIDERED PAID FOR AS PART OF THE ITEM.

A LUMP SUM PAYMENT HAS BEEN INCLUDED IN THE GENERAL SUMMARY.

ITEM 625 - REMOVAL OF LUMINAIRE AND REERECTION, AS PER PLAN

THIS ITEM SHALL CONSIST OF REMOVING THE LUMINAIRE AND BRACKET ARM FROM THE EXISTING LIGHT POLE ON THE CLAY WADE BAILEY BRIDGE INDICATED IN THE PLANS, AND RELOCATING THEM TO THE PROPOSED COMBINATION POLE AS SHOWN. PAYMENT SHALL INCLUDE CLEANING THE LUMINAIRE REFLECTOR AND LENS, REPLACING THE LAMP, MAKING REPAIRS IF NECESSARY, AND VERIFYING THAT THE LUMINAIRE IS IN OPERATING ORDER.

⚠1 THIS ITEM SHALL ALSO INCLUDE DISCONNECTING AND RECONNECTING THE EXISTING CIRCUIT AS NECESSARY. THE CONTRACTOR SHALL PROVIDE AND INSTALL CONDUITS, MOUNTINGS, FITTINGS, JUNCTION BOXES, POLE AND BRACKET CABLE, AND ALL INCIDENTALS NECESSARY TO COMPLETE, READY FOR USE, THE SERVICE ON THE BRIDGE AT THE LOCATION SHOWN IN THE PLANS. COMPONENT PARTS NOT SPECIFICALLY MENTIONED BUT REQUIRED FOR SATISFACTORY OPERATION OF THIS ITEM SHALL BE FURNISHED AND CONSIDERED PAID FOR AS PART OF THE ITEM.

A LUMP SUM PAYMENT FOR ITEM 625 - REMOVAL OF LUMINAIRE AND REERECTION, AS PER PLAN HAS BEEN INCLUDED IN THE GENERAL SUMMARY.

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM ⚠1	ADDED POWER SERVICE AND REVISED NOTE.	12-22-99	LEP

ADDENDUM NO. 1
DEC. 22, 1999

SHEET NUMBER

ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
202	75800	3	EACH	DISCONNECT EXISTING CIRCUIT	2
625	00500	12	EACH	CONNECTOR KIT, TYPE II	
625	01500	3	EACH	CABLE SPLICING KIT	
625	05600	2	EACH	LIGHT POLE, DESIGN A6.1BI2.2	
625	10500	1	EACH	LIGHT POLE, MISC.: DESIGN A1.0BII.2, AS PER PLAN	6
625	10500	2	EACH	LIGHT POLE, MISC.: DESIGN A1.0BI2.2, AS PER PLAN	6
625	10590	20	EACH	LIGHT POLE ANCHOR BOLTS	
625	10600	4	EACH	LIGHT POLE ANCHOR L-BOLTS	
625	23000	1353	METER	NO. 4 AWG 600 VOLT DISTRIBUTION CABLE	
625	23400	192	METER	NO. 10 AWG POLE AND BRACKET CABLE	
625	25100	19	METER	CONDUIT, 25 mm, 713.04	
625	25400	218	METER	CONDUIT, 51 mm, 713.04	
625	26250	3	EACH	LUMINAIRE, CONVENTIONAL, TYPE III, 400 WATT HPS, 480 VOLT	
625	26250	3	EACH	LUMINAIRE, CONVENTIONAL, STYLE B, TYPE III, 310 WATT HPS, 480 VOLT	
625	27521	1	EACH	REMOVAL OF LUMINAIRE AND REERECTION, AS PER PLAN	2
625	29920	7	EACH	STRUCTURE JUNCTION BOX	
625	33000	1	EACH	STRUCTURE GROUNDING SYSTEM	
625	34001	1	EACH	POWER SERVICE, AS PER PLAN	2
625	38000	LUMP		HIGH VOLTAGE TEST	2
625	98200	LUMP		LIGHTING, MISC.: RECONNECT EXISTING CIRCUIT C-222W	2
632	81700	1	EACH	COMBINATION SIGNAL SUPPORT, MISC.: CITY DESIGN NO. 38045 LT	
632	81700	1	EACH	COMBINATION SIGNAL SUPPORT, MISC.: CITY DESIGN NO. 72025 LT	

QUANTITIES SHOWN ARE FOR INFORMATION ONLY.
LIGHTING TO BE BID AS LUMP SUM.

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	ADDED POWER SERVICE	12-22-99	LEP

ADDENDUM NO. 1
DEC. 22, 1999

CALCULATED LEP
CHECKED JPO

LIGHTING GENERAL SUMMARY

CITY OF CINCINNATI
CONTRACT No. 75X5753

3/5

31
125

...\430000\contrt14\LSUM1401.DGN Dec. 17, 1999 15:44:39

I-71 NB

RAMP B

RAMP D

RAMP DI

PETE ROSE WAY

CENTRAL AVE.

CLAY WADE BAILEY BRIDGE

JOHN STREET

AUGUSTA ST.

PRODUCE DRIVE

MEHRING WAY

401+500

402+2

401+600

403+500

403+200

403+000

DISCONNECT EXISTING CIRCUIT C-222M AT EXISTING LIGHT POLE CWBB-1, SEE GENERAL NOTES.

LIGHT POLE IN CONTRACT 7

LIGHT POLE IN CONTRACT 7

EXISTING LIGHT POLE. REMOVE AND REERECT BRACKET ARM AND LUMINAIRE ON PROPOSED COMBINATION POLE. SEE GENERAL NOTES.

PROPOSED STRUCTURE MOUNTED COMBINATION POLE (CITY OF CINTI. DESIGN NO. 38045 LT), STA. 403+742.102 SEE GENERAL NOTES.

EXISTING LIGHT POLE, LUMINAIRE, AND BRACKET ARM TO BE REMOVED AND RETURNED TO THE CITY OF CINCINNATI

STA. 403+532, 14AI-25
RAMP DI, STRUCTURE MOUNTED

STRUCTURE JUNCTION BOX, STA. 403+143, RAMP D

STA. 403+113.951, 14AI-26
RAMP D, STRUCTURE MOUNTED COMBINATION POLE (CITY OF CINTI. DES. NO. 72025 LT), SEE GENERAL NOTES.

STA. 403+169.071, 14AI-24
RAMP D, STRUCTURE MOUNTED

STA. 403+224.371, 14AI-23
RAMP D, STRUCTURE MOUNTED

CONNECT PROPOSED LIGHTING TO EXISTING CIRCUIT 14AI AT EXISTING STRUCTURE JUNCTION BOX. CIRCUIT 14AI PULLED TO THIS POINT UNDER CONTRACT 7

JUNCTION BOX LOCATED ON BOTTOM OF DECK AT THIS LOCATION

POWER SERVICE "14A" 240/480 VOLT, ON BACK OF PIER 6, I-71 NB

EXISTING LIGHT POLE

REMOVE EXISTING WALL MOUNTED LIGHTS, DISCONNECT EXISTING CIRCUIT C-222M, SEE GENERAL NOTES.

EXISTING LIGHT POLE, LUMINAIRE, AND BRACKET ARM TO BE REMOVED AND RETURNED TO THE CITY OF CINCINNATI

STA. 403+067.557, 14AI-27
RAMP D, STRUCTURE MOUNTED

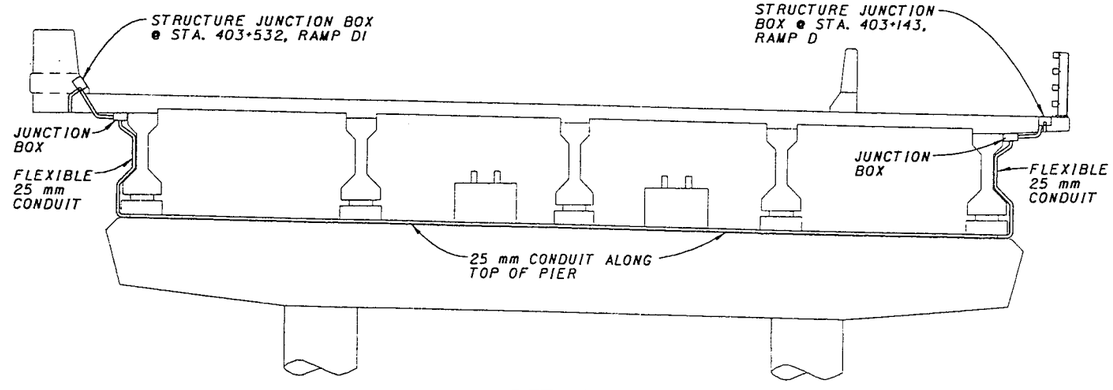
STA. 403+029.779, 14AI-28
RAMP D, STRUCTURE MOUNTED

EXISTING LIGHTING CABLE AND CONDUIT BETWEEN EXISTING LIGHT POLES CWBB-1 AND CWBB-4 TO BE REMOVED OR ABANDONED.

EXISTING LIGHT POLE

PROVIDE NEW LIGHTING CABLE INSIDE NEW CONDUIT MOUNTED TO UNDERSIDE OF DECK FOR RECONNECTION OF EXISTING CIRCUIT C-222M BETWEEN EXISTING LIGHT POLES CWBB-1 AND CWBB-4, SEE GENERAL NOTES.

DISCONNECT EXISTING CIRCUIT C-222M AT EXISTING LIGHT POLE CWBB-4, SEE GENERAL NOTES.



DETAIL A-A

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REVISE LIGHTING CIRCUIT AND NOTES.	12-22-99	LEP

ADDENDUM NO. 1
DEC. 22, 1999

GRAPHIC SCALE IN METERS

LIGHTING PLAN

CITY OF CINCINNATI
CONTRACT No. 75X5753

4/5

33/125

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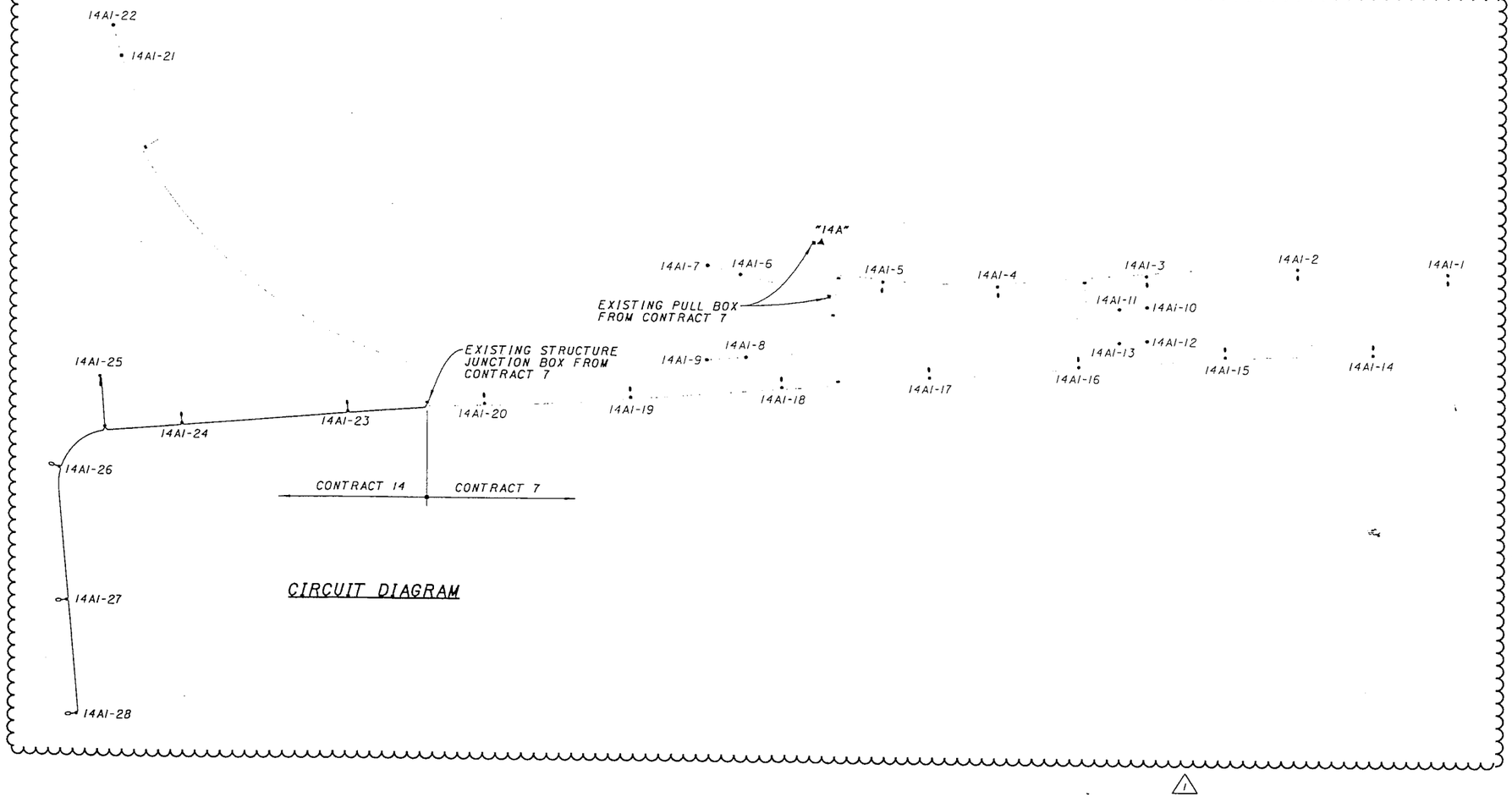
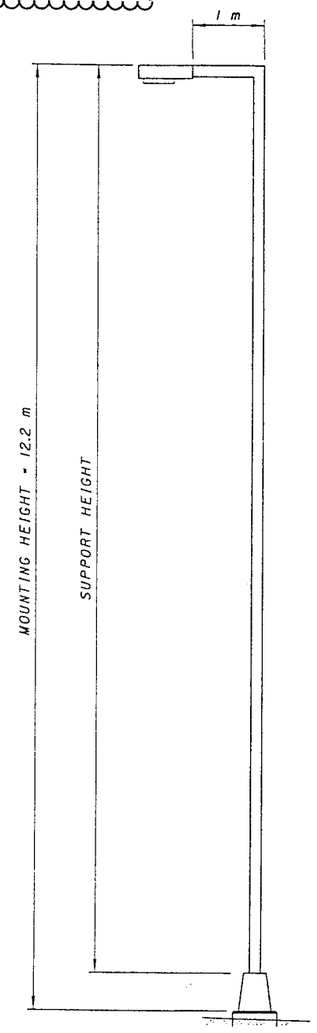
POWER SERVICE DATA

	CONTROL CENTER LOCATION	POWER SERVICE	TRANSFORMER (KVA)	CONNECTED LOAD (KVA)	SERVICE ENTRANCE CONDUCTOR SIZE AWG	ENCLOSURE RATING (AMPS)	CIRCUIT NUMBER	CIRCUIT LOAD (AMPS)	CIRCUIT FUSE SIZE (AMPS)	REMARKS	MAINTAINING AGENCY
CONTROL CENTER "14A"	MOUNTED ON BACK OF PIER COLUMN, PIER 6, I-71 NB	240/480 VOLT 3 WIRE, GROUNDED NEUTRAL	30	15.6	4	100	6B1	4.1	20	EXISTING, CONTRACT 6	CITY OF CINCINNATI
							14A1	24.7	40	14A1-1 TO 14A1-28	
							14A2	5.8	20	EXISTING, CONTRACT 6	



CIRCUIT DIAGRAM



LIGHT POLE, AS PER PLAN

POLE CONSTRUCTION SHALL BE 6" DIAMETER STRAIGHT STEEL WITH 90 DEGREE CROSS ARMS. WHERE TRANSFORMER BASES ARE REQUIRED, THEY SHALL ALSO BE STEEL. FINISH SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ODOT 711.02. PREPARE SURFACE PER SSPC-SP1 AND FINISH WITH HIGH BUILD EPOXY (0.08 mm - 0.13 mm DFT) AND ALIPHATIC ACRYLIC POLYURETHANE (0.05 mm - 0.08 mm DFT). COLOR TO BE FEDERAL STANDARD NO. 20372 OF FS595.

AT MANUFACTURER'S OPTION, FINISH COAT MAY BE A BAKED ON POWDER COAT WITH A MINIMUM THICKNESS OF 6 MILS.

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REVISE CIRCUIT AND TABLE.	12-22-99	LEP

ADDENDUM NO. 1
DEC. 22, 1999

LIGHTING DETAIL SHEET

CITY OF CINCINNATI
CONTRACT No. 75X5753

5/5

34/125

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Section 2 of 6

BRIDGE NO. 4

END CONTRACT 14
RAMP DI STA. 403+533.383
STATION EQUATION
STA. 403+533.383 RAMP DI=
STA. 403+143.642 RAMP D, 4.8m LT

℄ RAMP DI

BEGIN CONTRACT 14
RAMP DI STA. 403+500.000

STRIP SEAL JOINT

℄ CLAY WADE BAILEY BRIDGE

SAW CUT LINE @ ℄ EXISTING GIRDER

EXPANSION JOINT

℄ RAMP D

EXPANSION JOINT

BRIDGE 5C

BRIDGE 5B

BRIDGE 5A

CONTRACT 14

CONTRACT 7

EXPANSION JOINT

END CONTRACT 14
RAMP D STA. 403+249.800

Sta. 401+532.899

3.6m

CROSSETT COURT

CLAY WADE BAILEY BRIDGE

PETE ROSE WAY

COACHING TOWER

BEGIN CONTRACT 14
RAMP D STA. 402+999.071

Pier 21 Concrete Cap
Pier 20 (Plate Girder)
Pier 19 (Plate Girder)
Pier 18 (Box Girder)
Pier 17 Concrete Cap
Pier 16 Concrete Cap

REVISION NO:	DESCRIPTION	DATE	BY
ADDENDUM 1	ADDED ℄ CLAY WADE BAILEY BRIDGE	12-22-99	VJR

PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2300
CINCINNATI, OH 45202-2720
DESIGN AGENCY

REVISED	DATE	DRAWN	PREPARED
	12-22-99	JAS	VPH
STRUCTURE FILE NUMBER		REVIEWED	CHECKED
			TOM

STRUCTURAL GENERAL PLAN
BRIDGE NO. 5A, 5B AND 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

1/9

35/125

ADDENDUM NO. 1
DEC. 22, 1999

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SHEET NO.	DRAWING TITLE / DESCRIPTION
	BRIDGE PLANS
35	Structural General Plan
36	Structural Index of Sheets
37	General Notes - 1 of 2
38	General Notes - 2 of 2
39	Geometric Layout
40	Foundation and Pile Layout Plan, 1 of 3
41	Foundation and Pile Layout Plan, 2 of 3
42	Foundation and Pile Layout Plan, 3 of 3
43	Typical Railing Details
	BRIDGE PLANS - BRIDGE NO. 5A
44	Site Plan - Ramp D
45	Pier 5D-1
46	Pier 5D-2
47	Pier 5D-3
48	Reinforcing Steel List - Piers
49	Framing Plan & Girder Elevation, 1 of 2
50	Framing Plan & Girder Elevation, 2 of 2
51	Framing Plan
52	Girder Splice Details
53	Bearing Details - Pier 5D-1
54	Camber Diagram & Deflection Table
55	Deck Plan and Section
56	Deck Plan and Section
57	Deck Details
58	Reinforcing Steel List - Superstructure
59	Expansion Joint Details
60	Screed Elevations
	BRIDGE PLANS - BRIDGE NO. 5B
61	Site Plan - Ramp D and Ramp D1
61A	Vertical Alignment - Ramp D and Ramp D1 (1)
62	Typical Sections
63	Pier Layout
64	Pier 5D-4 Plan and Elevation
64A	Pier 5D-4 Footing Plan and Details
65	Pier 5D-5 to 5D-7 Plan and Elevation
65A	Pier 5D-5 to 5D-7 Footing Plan and Details
66	Pier 5D1-1 Plan and Elevation
66A	Pier 5D1-1 Footing Plan and Details
67	Pier 5D1-2 Plan and Elevation
67A	Pier 5D1-2 Footing Plan and Details
68	Pier 5D1-3 Plan, Elevation, Footing and Details
69	Bar Schedule - Pier 5D-4
70	Bar Schedule - Pier 5D-5 to 5D-7
70A	Bar Schedule - Pier 5D1-1
70B	Bar Schedule - Pier 5D1-2
70C	Bar Schedule - Pier 5D1-3
71	Bearing Details
72	Not Used
73	Deck Reinforcing Plan , 1 of 3
74	Deck Reinforcing Plan , 2 of 3
75	Deck Reinforcing Plan , 3 of 3
76	Deck Reinforcing Section - 1 of 2
77	Deck Reinforcing Section - 2 of 2
78	Deck Details
79	Bar Schedule - Deck - 1 of 3
79A	Bar Schedule - Deck - 2 of 3 (1)
79B	Bar Schedule - Deck - 3 of 3
80	Deck Joint Details
81	Future Light Rail Details
82	Not Used
83	Deck Demolition Plan and Details
84	Deck Extension Plan and Details

SHEET NO.	DRAWING TITLE / DESCRIPTION
	BRIDGE PLANS - BRIDGE NO. 5C
85	Site Plan - Ramp D
86	Typical Sections
87	Pier 5D-8 Plan and Elevation
88	Pier 5D-8 Footing Plan and Details
89	Pier 5D-9 Plan and Elevation
90	Pier 5D-9 Footing Plan and Details
91	Pier 5D-10 Plan and Elevation
92	Pier 5D-10 Footing Plan and Details
93	Pier 5D-11 Plan and Elevation
94	Pier 5D-11 Footing Plan and Details
95	Bar Schedule - Pier 5D-8
96	Bar Schedule - Pier 5D-9
97	Bar Schedule - Pier 5D-10
98	Bar Schedule - Piers 5D-11, 4-4 (Pedestal)
99	Framing Plan, 1 of 2
100	Framing Plan, 2 of 2
101	Prestressed I-Girder Details, 1 of 2
102	Prestressed I-Girder Details, 2 of 2
103	Bar Bend Diagrams - Diaphragms
104	Not Used
105	End Diaphragms - Pier 5D-8
106	Pier Diaphragms - Pier 5D-9
107	Pier Diaphragms - Pier 5D-10
108	Pier Diaphragms Pier 5D-11
109	End Diaphragms - Pier 4-4
110	Intermediate Diaphragm Details, 1 of 2
111	Intermediate Diaphragm Details, 2 of 2
112	Pedestal - Pier 4-4
113	Bearing Layout Diagram
114	Bearing Details, 1 of 2
115	Bearing Details, 2 of 2
116	Deck Reinforcing Plan - 1 of 4
117	Deck Reinforcing Plan - 2 of 4
118	Deck Reinforcing Plan - 3 of 4
119	Deck Reinforcing Plan - 4 of 4
120	Deck Reingforcing Sections
121	Deck Details
122	Bar Schedule - Deck
123	Deck Joint Details
124	Construction Sequence
125	Bridge Screed Elevation Table

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	ADDED NEW SHEET	12-22-99	VJR

PREPARED JC | DRAWN JC | REVISED 12-22-99 | DATE

CHECKED TOM | REVIEWED | STRUCTURE FILE NUMBER 3/6066/

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720
PB

STRUCTURAL INDEX OF SHEETS
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

2/9

36/125

NOTE:
FOR ROADWAY INDEX SHEET, SEE SHEET 2/125.

ADDENDUM NO. 1
DEC. 22, 1999

REFERENCE:

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

AS-1-81M	DATED 10/25/94 (SHEETS 1,2 & 3)
BR-1M	DATED 1/6/99
EXJ-4-87M	DATED 2/20/95 (SHEETS 1, 2, 3, 4 & 5)
EXJ-2-81M	DATED 2/14/97
GSD-1-96M	DATED 11/21/97
HL-20.15M	DATED 3/31/95

THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS APPLY TO THIS PROJECT:

SUPPLEMENTAL SPECIFICATION SPECIAL:	HIGH PERFORMANCE CONCRETE FOR STRUCTURES
SUPPLEMENTAL SPECIFICATION SPECIAL:	MASS CONCRETE
SUPPLEMENTAL SPECIFICATION:	PAINTING, SYSTEM 1ZEU

DESIGN SPECIFICATIONS:

THIS PROJECT IS DESIGNED IN METRIC SI UNITS, ALL DIMENSIONS ARE IN MILLIMETERS (mm), AND ALL ELEVATIONS ARE IN METERS (m), UNLESS NOTED OTHERWISE.

THIS STRUCTURE CONFORMS TO:

"STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, SIXTEENTH EDITION, 1996.

ANSI/AASHTO/AWS "BRIDGE WELDING CODE".

STATE OF OHIO "BRIDGE DESIGN MANUAL".

AASHTO "GUIDE SPECIFICATIONS FOR HORIZONTALLY CURVED HIGHWAY BRIDGES", 1993: 1992 AND 1993 INTERIM SPECIFICATIONS

AASHTO "GUIDE SPECIFICATIONS FOR FRACTURE CRITICAL NON-REDUNDANT STEEL BRIDGE MEMBERS", 1978: 1981,1983,1984,1985,1986 INTERIM SPECIFICATIONS.

THE DECK SLAB IS POURED IN ONE FULL DEPTH POUR BETWEEN HORIZONTAL CONSTRUCTION JOINTS. THE OVERALL DECK THICKNESS INCLUDES 25 mm OF MONOLITHIC WEARING SURFACE. THESE 25 mm OF THICKNESS WERE NOT CONSIDERED IN THE STRUCTURAL DESIGN OF THE DECK SLAB OR TO BE A PART OF THE COMPOSITE SECTION IN POSITIVE MOMENT REGIONS. THE WEIGHT OF THE MONOLITHIC WEARING SURFACE IS INCLUDED IN DEAD WEIGHT OF DECK SLAB.

DECK PROTECTION METHOD SHALL BE BY USING EPOXY COATED REINFORCING STEEL, HIGH PERFORMANCE CONCRETE DECK, SEALING OF CONCRETE SURFACES, AND A 65 mm CONCRETE COVER.

THE SUPERSTRUCTURE HAS BEEN DESIGNED AS A COMPOSITE SECTION. IN THE POSITIVE MOMENT REGIONS THE COMPOSITE SECTION COMPRISES THE GIRDER AND THE "EFFECTIVE" PART OF CONCRETE DECK SLAB. IN NEGATIVE MOMENT REGIONS THE COMPOSITE SECTION COMPRISES THE GIRDER AND THE LONGITUDINAL REINFORCEMENT OF THE CONCRETE DECK SLAB. IT IS ALSO ASSUMED THAT THERE IS NO SHORING OF STEEL GIRDERS DURING CONCRETE DECK PLACEMENT OPERATIONS.

DESIGN LOADINGS:

DESIGN METHOD: LOAD FACTOR DESIGN FOR ALL STRUCTURAL STEEL AND REINFORCED CONCRETE COMPONENTS, EXCEPT FOR BEARINGS, WHICH ARE DESIGNED USING SERVICE LOAD METHOD.

DEAD LOADS:

UNIT WEIGHT OF REINFORCED CONCRETE - 23.6 kN/m^3
FUTURE WEARING SURFACE - 2.88 kN/m^2
STANDARD VEHICLE BARRIER - 7.62 kN/m
OVERHEAD SIGNS, LIGHTING ETC. - 1.6 kN/m
ATTACHED UTILITIES - 3.3 kN/m

LIVE LOAD:
STEEL SUPERSTRUCTURES: LOAD FACTOR DESIGN USING AASHTO MS18 OR AASHTO ALTERNATE MILITARY LOADING
REINFORCED CONCRETE SUBSTRUCTURES: LOAD FACTOR DESIGN USING AASHTO MS18 OR AASHTO ALTERNATE MILITARY LOADING

CENTRIFUGAL FORCES:

CENTRIFUGAL FORCES WERE CALCULATED IN ACCORDANCE TO AASHTO REQUIREMENTS FOR DESIGN SPEEDS AS LISTED IN THE FWW DESIGN CRITERIA

THERMAL FORCES:

ANTICIPATED THERMAL MOVEMENTS AND FORCES WERE CALCULATED BASED ON THE FOLLOWING:
DESIGN MEAN TEMPERATURE = 20°C
TEMPERATURE RANGE = 65°C FOR STEEL AND 44°C FOR CONCRETE
COEFFICIENT OF LINEAR EXPANSION = 0.00001 PER DEGREE C

SEISMIC FORCES:

DESIGN DETAILS IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SIXTEENTH EDITION, SEISMIC PERFORMANCE CATEGORY A AND ODOT BDM, 3.1.2.1.

FATIGUE - CASE I

LOADING COMBINATIONS:

LOAD FACTORS, ALLOWABLE OVERSTRESS AND LOADING COMBINATIONS ARE IN ACCORDANCE WITH AASHTO TABLE 3.22.1A

TOUGHNESS TESTS:

CHARPY V-NOTCH IMPACT TEST SHALL BE COMPLETED IN ACCORDANCE WITH AASHTO 10.3.3 FOR TEMPERATURE ZONE 2. ALL COMPONENTS REQUIRING SUCH TESTING ARE IDENTIFIED ON PLANS BY PLACING LETTERS "CVN" AFTER THE COMPONENT DESCRIPTION.

STRUCTURAL STEEL:

ASTM A572M, GR.350 FOR MAIN MEMBERS, BEARING DEVICES, FIELD SPLICES, DIAPHRAGMS AND MISCELLANEOUS DETAILS. STRUCTURAL STEEL SHALL BE PER SUPPLEMENTAL SPECIFICATION 863.

FRACTURE CRITICAL STEEL MEMBERS AND COMPONENTS (FCM) ARE INDENTIFIED ON THE PLANS. ALL MEMBERS, SO IDENTIFIED, MUST BE SUBJECTED TO THE FRACTURE CONTROL PLAN PER AASHTO GUIDE SPECIFICATION FOR FRACTURE CRITICAL NON-REDUNDANT STEEL BRIDGE MEMBERS, AND WELDING REQUIREMENTS OF CMS 513.17.

ALL BOLTED CONNECTIONS SHALL BE MADE WITH M25 ROUND HIGH STRENGTH BOLTS CONFORMING TO ASTM A-325M, TYPE 1, UNLESS OTHERWISE NOTED ON PLANS. FAYING SURFACES OF CONNECTED PARTS SHALL MEET THE AASHTO CLASS A SURFACE PREPARATION REQUIREMENTS FOR SLIP CRITICAL CONNECTIONS. ALL BOLTS ASSUMED TO HAVE THEIR THREADS OUTSIDE OF THE SHEAR PLANE.

SHEAR STUDS SHALL BE AUTOMATIC WELDED STUDS. THE USE OF CHANNELS IS NOT PERMITTED. UNLESS OTHERWISE NOTED, THE STANDARD STUD DIAMETER IS 22 mm.

ALL STRUCTURAL WELDING SHALL CONFORM TO ANSI/AASHTO/AWS BRIDGE WELDING CODE D1.5-95. THE FOLLOWING WELDING PROCESSES ARE PERMITTED: SHIELDED METAL ARC WELDING (SMAW); FLUX CORED ARC WELDING (FCAW); GAS METAL ARC WELDING (GMAW); SUBMERGED ARC WELDING (SAW).
NO FIELD WELDING, UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR APPROVED BY THE ENGINEER, WILL BE PERMITTED

ALL FABRICATED STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED FOR A TEMPERATURE OF 20°C.

PAINTING:

ALL STEEL IS TO BE PAINTED IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 816, FIELD PAINTING OF NEW STEEL, SYSTEM 1ZEU AND PROJECT SPECIAL PROVISIONS. ALL PAINTING IS TO BE DONE IN THE SHOP, EXCEPT AT FIELD BOLTED FAYING SURFACES WHICH SHALL BE ONLY SHOP PRIMED EXISTING STEEL 02EU.

AREAS OF THE SHOP APPLIED PAINT SYSTEM WHICH WERE DAMAGED DURING CONSTRUCTION, AND HIGH STRENGTH BOLTED CONNECTION AREAS THAT WERE ONLY PRIME PAINTED, SHALL BE PROPERLY CLEANED AND PAINTED. AFTER COMPLETION OF ALL TIGHTENING OPERATIONS, FASTENERS SHALL BE SOLVENT CLEANED AND FIELD PAINTED.

THE CONTRACTOR IS TO PROVIDE SHOP DRAWINGS ON THE BRIDGE STEEL PAINT COLOR. ONCE WRITTEN APPROVAL IS PROVIDED FOR THE SHOP DRAWING, THE CONTRATOR IS TO PROVIDE A 1219 mm x 2438 mm FULL COLOR MOCK UP PANEL IN THE FIELD (AT A LOCATION TO BE DETERMINED) FOR REVIEW. THE CONTRACTOR IS NOT TO PROCEED WITH THE FINAL BRIDGE PAINTING WITHOUT WRITTEN APPROVAL ON THE COLOR PANEL MOCK UP.

CAMBER DIAGRAM:

A CAMBER DIAGRAM IS SHOWN IN THE DRAWINGS, SHOWING THE CAMBER AT EACH 1/10 OF A SPAN, AND ALSO AT POINTS OF DEAD LOAD CONTRAFLEXURE, AND AT THE CENTERLINE OF FIELD SPLICE(S). THIS CAMBER DIAGRAM ACCOUNTS FOR GIRDER CAMBER COMPONENTS DUE TO SELF WEIGHT, NON COMPOSITE DEAD LOAD (DECK AND HAUNCHES), COMPOSITE DEAD LOAD (BARRIERS, RAILINGS, UTILITIES, INSPECTION WALKWAYS, ETC.) AND VERTICAL CURVATURE OF THE ROADWAY ABOVE CENTERLINE OF EACH GIRDER.

CLEARANCE:

A MINIMUM VERTICAL CLEARANCE BETWEEN THE RIDING SURFACE OF ROADWAY BELOW AND THE LOWEST POINT OF THE STRUCTURE ABOVE, IF IT ENCROACHES ONTO TRAFFIC LANES OF ROADWAY BELOW, MUST BE 4.9 m FOR MAINLINE ROADWAYS, RAMPS AND LOCAL STREETS.

CONCRETE:

MINIMUM 28-DAY COMPRESSIVE STRENGTH (fc') SHALL BE AS FOLLOWS:
~~ODOT Prestressed Girder Concrete~~ 6000 psi
~~HIGH PERFORMANCE CONCRETE~~ - COMPRESSIVE STRENGTH ~~41.0~~ (28 DAY) ~~MPa~~ TO BE USED FOR PRESTRESSED CONCRETE BEAMS. (f'ci = ~~27.5 MPa~~ 4000 psi RELEASE)
HIGH PERFORMANCE Concrete
~~CONCRETE CLASS S~~ - COMPRESSIVE STRENGTH ~~31.0 MPa~~ 6000 psi TO BE USED FOR ~~DECK SLABS~~ DECK SLABS, DIAPHRAMS, AND BARRIERS

CONCRETE CLASS C - COMPRESSIVE STRENGTH 27.5 MPa TO BE USED FOR ALL PIERS AND FOUNDATIONS.

CONSTRUCTION JOINTS IDENTIFIED ON THE DRAWINGS AS "ROUGHENED" SHALL BE CLEAN AND SHALL BE ROUGHENED TO A FULL AMPLITUDE OF APPROXIMATELY 6 mm.

FOR PROPER DECK FORMWORK INSTALLATION AND CONCRETE PLACEMENT -SEE TABLES OF ELEVATIONS AT THE TOP OF THE CONCRETE DECK (SCREED ELEVATIONS) THAT ARE REQUIRED BEFORE THE CONCRETE IS PLACED.

THE EXTENT OF SEALING OF CONCRETE SURFACES (SUPERSTRUCTURE AND SUBSTRUCTURE) IS SHOWN ON THE DRAWINGS.

ALL EXPOSED EDGES OF DECK SLAB AND PARAPETS SHALL BE CHAMFERED 20x20 mm, UNLESS OTHERWISE NOTED. ALL EXPOSED EDGES OF SUBSTRUCTURE CONCRETE SHALL BE CHAMFERED 25x25 mm, UNLESS OTHERWISE NOTED.

FABRICATION AND CONSTRUCTION REQUIREMENTS
ERECTION PROCEDURE. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE DIRECTOR PLANS DETAILING THE ERECTION AND HANDLING OF THE I-BEAMS. THE ERECTION PROCEDURE SHALL BE PREPARED BY A REGISTERED PROFESSIONAL ENGINEER AND SUBMITTED AT LEAST 30 DAYS BEFORE THE ACTUAL ERECTION. ERECTION SHALL NOT BEGIN UNTIL THE ERECTION PROCEDURE HAS BEEN APPROVED.

HIGH PERFORMANCE CONCRETE

ERECTION AND LIFTING DEVICES: THE GIRDER FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF A LIFTING SYSTEM FOR HANDLING I-BEAMS AT THE PLANT. TWO LIFT POINTS SHALL BE USED, ONE WITHIN 1500 mm OF EACH END. THE LIFTING SYSTEM SHALL BE SHOWN ON THE SHOP DRAWINGS AND A FACTOR OF SAFETY OF FOUR USED IN THE DESIGN. THE FABRICATOR IS REFERRED TO PART 5 OF THE PCI HANDBOOK.

THE GIRDERS MUST BE MAINTAINED IN AN UPRIGHT POSITION AT ALL TIMES.

TEMPORARY STABILITY FOR DECK PLACEMENT: THE ERECTION PROCEDURE SHALL INCLUDE ANY ADDITIONAL TEMPORARY DIAPHRAMS OR SUPPORTS NEEDED TO ASSURE THE I-BEAMS WILL REMAIN STABLE BEFORE, DURING, AND THROUGH COMPLETION OF THE PLACEMENT OF THE CONCRETE DECK.

INTERMEDIATE DIAPHRAMS SHALL BE COMPLETED NOT LESS THAN 48 HOURS BEFORE DECK PLACEMENT BEGINS.

DECK POURING SEQUENCE:
POURS SHALL BE MADE IN THE SEQUENCE SHOWN ON THE PLANS.

REINFORCING STEEL:
REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615M, A161M OR A617M, GRADE 420 WITH MINIMUM YIELD STRENGTH 420MPa

ALL REINFORCING STEEL SHALL BE EPOXY COATED, INCLUDING APPROACH SLABS.

MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE AS SHOWN ON THE DRAWINGS. CONCRETE COVERS SHOWN ON THE DRAWINGS DO NOT INCLUDE PLACEMENT AND FABRICATION TOLERANCES, UNLESS SHOWN AS A "MINIMUM COVER".

REINFORCING BAR SPLICE LENGTHS SHALL CONFORM TO THE MINIMUM LENGTHS SPECIFIED BY 509.08 OF THE C.M.S. UNLESS OTHERWISE NOTED ON THE PLANS.

MECHANICAL COUPLERS MAY BE USED IN PLACE OF LAPS AT NO ADDED COST TO THE OWNER. MECHANICAL COUPLERS MAY BE USED TO REDUCE THE HEIGHT OF COLUMN BARS PROJECTING FROM FOOTINGS AT NO ADDED COST TO THE OWNER. IF MECHANICAL COUPLERS ARE USED, CERTIFICATION AND/OR TEST RESULTS FOR THE PROPOSED COUPLER SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

PRESTRESSING STRANDS:
ASTM A416 GRADE 270, ¡2.7 mm DIAMETER SEVEN-WIRE, UNCOATED, LOW-RELAXATION STRANDS, NOMINAL STRAND AREA 99mm2.

UTILITY LINES:
ALL EXPENSE INVOLVED IN RELOCATION OF THE AFFECTED UTILITY LINES SHALL BE BORNE BY THE UTILITY. THE CONTRACTOR AND UTILITY ARE TO COOPERATE BY ARRANGING THEIR WORK IN SUCH A MANNER THAT INCONVENIENCE TO EITHER WILL BE HELD TO A MINIMUM.

ANCHOR BOLTS AND DOWEL HOLES:

ANCHOR BOLTS SHALL BE GALVANIZED ACCORDING TO 711.02. INSTALLATION OF ANCHOR BOLTS SHALL BE PER 510. DOWEL HOLES AND ANCHOR RODS SHALL BE INCLUDED IN ITEM 516 FOR PAYMENT.

DOWEL HOLES SHALL INCLUDE THE DRILLING OF HOLES INTO CONCRETE AND THE FURNISHING AND PLACING OF GROUT INTO HOLES. NONSHRINKING EPOXY GROUT SHALL BE USED IN ACCORDANCE WITH CMS 705.20. ANCHORING SHALL CONFORM CMS 705.20.

CONCRETE PARAPETS:

AS SOON AS A CONCRETE SAW CAN BE OPERATED WITHOUT DAMAGING THE FRESHLY PLACED CONCRETE, 35 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 SAWCUTS 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 SURFACES 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.

PROTECTION OF TRAFFIC DURING DEMOLITION:
PRIOR TO THE DEMOLITION OF ANY PORTIONS OF THE EXISTING SUPERSTRUCTURE, THE CONTRACTOR SHALL SUBMIT HIS PLANS FOR THE PROTECTION OF TRAFFIC (VEHICULAR, PEDESTRIAN, ETC.) ADJACENT TO AND/OR UNDER THE STRUCTURE FOR APPROVAL THESE PLANS SHALL INCLUDE PROVISIONS FOR ANY DEVICES AND STRUCTURES 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.

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

DATE	REVISED	DRAWN	REVIEWED
12-02-99	STRUCTURE FILE NUMBER	JAS	

PREPARED TOM | CHECKED VPH

GENERAL NOTES, 1 OF 2
BRIDGE NO. 5A, 5B, AND 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

3/9

37/125

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND/OR FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02, AND 513.02

CONTRACT BID PRICES SHALL BE BASED UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE BY THE CONTRACTOR. HOWEVER, ALL PROJECT WORK SHALL BE BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED BY THE CONTRACTOR IN THE FIELD.

EXISTING STRUCTURE PLANS:

THE ORIGINAL DESIGN PLANS MAY BE EXAMINED BY PROPECTIVE BIDDERS AT THE CITY OF CINCINNATI DEPARTMENT OF PUBLIC WORKS. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE DRAWINGS.

PILING :

FRICTION PILES (NOT DRIVEN TO BEDROCK):
THE ULTIMATE PILE CAPACITY IS 1512 kN PER PILE FOR THE PIER PILES.

PILE TESTING SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIAL PROVISIONS.

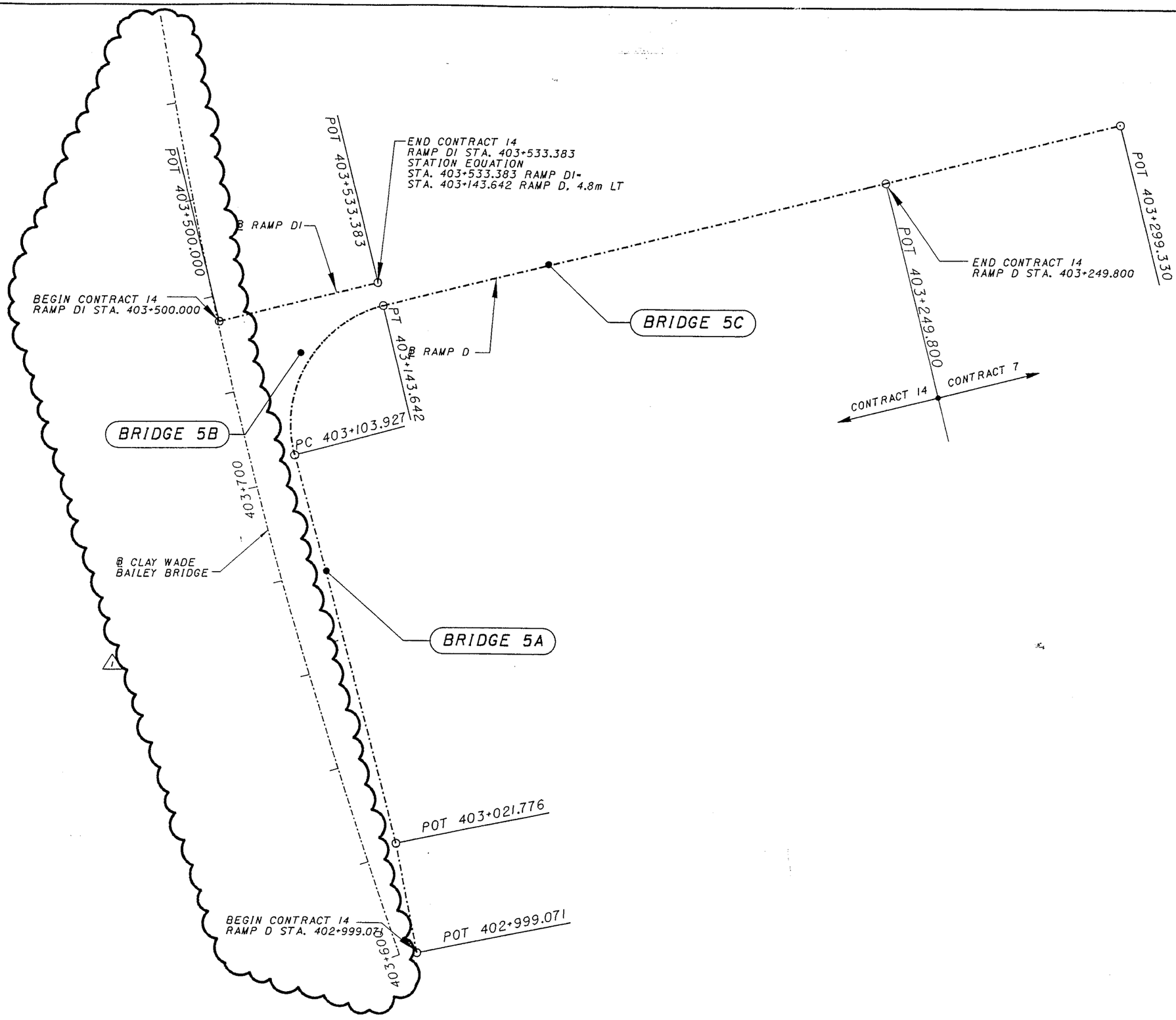
i:\fww\contracts\14\struct\5gn1402.dgn
i:\BYERS_PRF\SOLUS4\PLOT\5gn1402.prf
12/01/99 Wed Dec 12:32:27 1999

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 1600
CINCINNATI, OH 45202-2720

PREPARED	DRAWN	REVISED	DATE
VPH	JAS		12-02-99
CHECKED	REVIEWED	STRUCTURE FILE NUMBER	
TOM			

CITY OF CINCINNATI
CONTRACT NO. 75X57753

GENERAL NOTES, 2 OF 2
BRIDGE NO. 5A, 5B, AND 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET



REVISION NO.	DESCRIPTION	DATE	BY
1 ADDENDUM	ADDED CLAY WADE BAILEY BRIDGE	12-22-99	VJR

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

PREPARED	DRAWN	CHECKED
TOM	JAS	VPH

REVISED	DATE	STRUCTURE FILE NUMBER
	12-22-99	
REVIEWED		

GEOMETRIC LAYOUT
BRIDGE NO. 5A, 5B AND 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X57753

5 / 9

39 / 125

ADDENDUM NO. 1
DEC. 22, 1999

12/21/99 Tue Dec 21 12:58:52 1999
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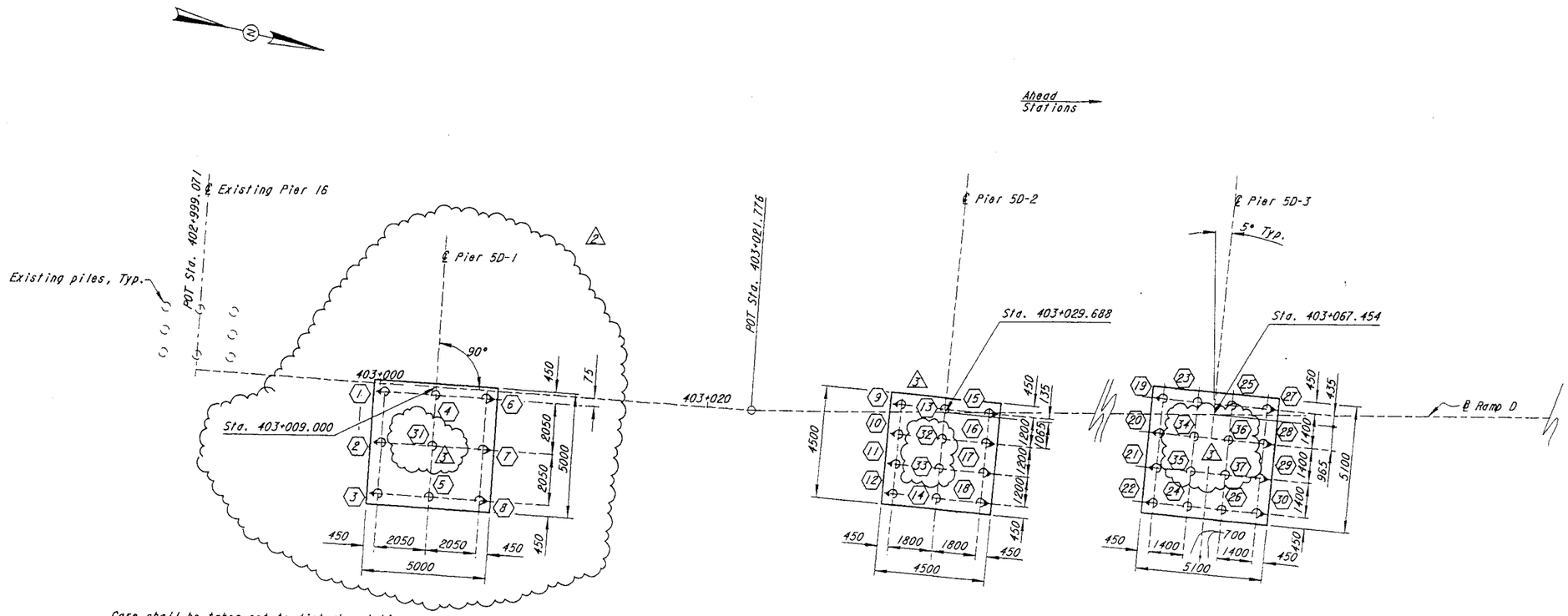
I:\fww\contracts\14\struct\5gll40i.dgn



Care shall be taken not to disturb existing storage building and existing utilities.

NOTES:
1. All piles are 350mm C.I.P.
2. (22) ○ Designates pile number and location.
3. ○ Denotes pile battered 1:4 in direction of arrow.

Revision 2 Pier 5D1 3/13/00

Filename: 99184f.dgn

metric units

DESIGN AGENCY: BALKE ENGINEERS
DATE: 1/24/99
REVIEWED: CRS
DRAWN: ALH
DESIGNED: MS

FOUNDATION & PILE LAYOUT PLAN, 1 OF 3

CITY OF CINCINNATI

6 9
40
125

FORT WASHINGTON WAY 2000

City of Cincinnati

PILE QUANTITY & DRIVING RECORD (DRIVEN PILES)

Pier #5D-1

STRUCTURE Bridge #5A Contract #14

ITEM DESCRIPTION Cast-In-Place Piling 317' wall

TYPE PILE USED 350 mm CIP Reinf Conc. Pile

APE D19-32 SEE WAVE

HAMMER MAKE Delmag D19 MODEL ______ E= Equation Analysis

DESIGN BRNG. 756 KN REQUIRED BRNG. 1512 kN = 340 KIPS BLOW/FT AT REQUIRED BRNG. 42 *

PILE DRIVING INSPECTED BY J. Ehret D. Mohler PILE QUANTITY CALC BY D. Mohler DATE 3-28-00 & 3-29-00

PILE CONCRETE PLACING INSP. BY Jim Ehret PILE QUANTITY CHECK BY N. Obert DATE 4-20-01

PILE NO.	DATE PILE DRIVEN	BLOWS PER ~~6"~~ FT	DATE PILE CONCRETE PLACED	(1) SPEC. TOP OF PILE ELEV.	(2) SPEC. TP ELEV.	(3) LENGTH IN LEADS	(4) LENGTH OF CUT-OFF	(5) ACTUAL LENGTH IN GROUND (3-4)	(6) ACTUAL TP ELEV. (1-5)	(7) PAY LENGTH *SEE NOTE BELOW	REMARKS	PRE DRILL HOLE DEPTH	LENGTH OF RE-BAR REQ.
1	3-29-00	46	3-29-00	483.27	N/A	75.0	3.5	71.5	411.77	71.5	Batter 4:1	N/A	N/A
2	3-28-00	42	3-29-00	483.27	N/A	75.0	2.5	72.5	410.77	72.5	Batter 4:1	N/A	N/A
3	3-28-00	42	3-29-00	483.27	N/A	75.0	7.9	67.1	416.17	67.1	Batter 4:1	N/A	N/A
4	3-28-00	46	3-29-00	483.27	N/A	75	7.0	68.0	415.27	68.0	Vertical	N/A	N/A
4A	3-28-00	52	3-29-00	483.27	N/A	75.0	10.0	65.0	418.27	65.0	Vertical	N/A	N/A
5	3-28-00	48	3-29-00	483.27	N/A	75.0	9.2	65.8	417.47	65.8	Vertical	N/A	N/A
6	3-29-00	46	3-29-00	483.27	N/A	75.0	9.5	65.5	417.77	65.5	Batter 4:1	N/A	N/A
7	3-28-00	60	3-29-00	483.27	N/A	75.0	9.5	65.5	417.77	65.5	Batter 4:1	N/A	N/A
8	3-28-00	46	3-29-00	483.27	N/A	75.0	10.0	65.0	418.27	65.0	Batter 4:1	N/A	N/A

* Based on Dynamic Test and Stroke of 7' → 7½ FT at Fuel Setting at Level 3

SHEET TOTALS ITEM NO. 8 9 EA. ITEM NO. 8 605.9 L.F.

184.678 M

*THE PAY LENGTH IS THE ACTUAL LENGTH IN THE GROUND, EXCEPT THAT NO PAY WILL BE MADE FOR THAT LENGTH OF PILE DRIVEN BELOW THE ELEVATION WHERE SPECIFIED TIP AND/OR SPECIFIED BEARING (WHOEVER IS LOWER) WAS OBTAINED ALSO, WHEN STEEL PILES ARE SUBSTITUTED FOR CLASS 45.1 45.2 OR 70 PILING THE LOWER LIMIT FOR PAYMENT WILL BE NO LOWER THAN THE SPECIFIED TIP ELEVATION.

Pier 5D-1 Pile Summary

FORT WASHINGTON WAY 2000

City of Cincinnati

PILE QUANTITY & DRIVING RECORD (DRIVEN PILES)

PIER #5D-2

ITEM DESCRIPTION CAST IN PLACE PILING WALL THICKNESS = 1.317"

STRUCTURE BRIDGE #5A CONTRACT #14

TYPE PILE USED 350 CIP REINF. CONC. PILE SEE WAVE EQUATION ANALYSIS

HAMMER MAKE DELMAG D19 MODEL APE D19-32 E=

DESIGN BRNG. 756 kN REQUIRED BRNG. 1512 kN = 340 kips BLOW/FT AT REQUIRED BRNG. 42*

PILE DRIVING INSPECTED BY STEVE ELLIS PILE QUANTITY CALC BY S. Ellis DATE 3-7-00 & 3-7-00

PILE CONCRETE PLACING INSP. BY STEVE ELLIS PILE QUANTITY CHECK BY N. O'BRIEN DATE 4-20-01

PILE NO.	DATE PILE DRIVEN	BLOWS PER 12"	DATE PILE CONCRETE PLACED	(1) SPEC. TOP OF PILE ELEV.	(2) SPEC. TP ELEV.	(3) LENGTH IN LEADS	(4) LENGTH OF CUT-OFF	(5) ACTUAL LENGTH IN GROUND (3-4)	(6) ACTUAL TP ELEV. (1-5)	(7) PAY LENGTH *SEE NOTE BELOW	REMARKS	PRE DRILL HOLE DEPTH	LENGTH OF RE-BAR REQ.
9	3-8-00	65	3-9-00	481.63	N/A	70.0	2.30	67.70	413.93	67.7	BATTER 4:1	N/A	N/A
10	3-8-00	48	3-9-00	481.63	N/A	70.0	2.20	67.80	413.83	67.8	BATTER 4:1	N/A	N/A
11	3-8-00	45	3-9-00	481.63	N/A	70.0	1.80	68.20	413.43	68.2	BATTER 4:1	N/A	N/A
12	3-8-00	59	3-9-00	481.63	N/A	70.0	1.20	68.80	412.83	68.8	BATTER 4:1	N/A	N/A
13	3-7-00	55	3-9-00	481.63	N/A	100.0	2.50	97.50	384.13	97.5	VERTICAL	N/A	N/A
13A	3-8-00	42	3-9-00	481.63	N/A	70.0	2.20	67.80	413.83	67.8	VERTICAL	N/A	N/A
14A	3-8-00	55	3-9-00	481.63	N/A	93.0	2.90	90.10	391.53	90.1	VERTICAL	N/A	N/A
14	3-7-00	54	3-9-00	481.63	N/A	100.0	2.30	97.70	383.93	97.7	VERTICAL	N/A	N/A
15	3-7-00	50	3-9-00	481.63	N/A	70.0	2.20	67.80	413.83	67.8	BATTER 4:1	N/A	N/A
16	3-7-00	72	3-9-00	481.63	N/A	70.0	1.90	68.10	413.53	68.1	BATTER 4:1	N/A	N/A
17	3-7-00	46	3-9-00	481.63	N/A	70.0	2.10	67.90	413.73	67.9	BATTER 4:1	N/A	N/A
18	3-8-00	47	3-9-00	481.63	N/A	70.0	2.60	67.40	414.23	67.4	BATTER 4:1	N/A	N/A
*	BASED ON DYNAMIC TEST AND STROKE OF 7'-7½ FT AT FUEL SETTING AT LEVEL				3								
SHEET TOTALS				ITEM NO. 8 12 EA.				ITEM NO. 8 896.8 L.F.					

*THE PAY LENGTH IS THE ACTUAL LENGTH IN THE GROUND, EXCEPT THAT NO PAY WILL BE MADE FOR THAT LENGTH OF PILE DRIVEN BELOW THE ELEVATION WHERE SPECIFIED TIP AND/OR SPECIFIED BEARING (WHICHEVER IS LOWER) WAS OBTAINED ALSO, WHEN STEEL PILES ARE SUBSTITUTED FOR CLASS 45.1 45.2 OR 70 PILING THE LOWER LIMIT FOR PAYMENT WILL BE NO LOWER THAN THE SPECIFIED TIP ELEVATION.

273.34m

Pier 5D-2 Pile Summary

FORT WASHINGTON WAY 2000

City of Cincinnati

PILE QUANTITY & DRIVING RECORD (DRIVEN PILES)

PIER *5D-3

ITEM DESCRIPTION CAST IN PLACE PILING .317" WALL THICKNESS

STRUCTURE BRIDGE *5A CONTRACT #14

TYPE PILE USED 350 CIP REINF. CONC. PILE SEE WAVE

HAMMER MAKE DELMAG D-19 MODEL APE D19-32 E= EQUATION ANALYSIS

DESIGN BRNG. 756 kN REQUIRED BRNG. 1512 kN=340 KIPS BLOW/FT AT REQUIRED BRNG. 42 *

PILE DRIVING INSPECTED BY STEVE ELLIS PILE QUANTITY CALC BY STEVE ELLIS DATE 3-13-00

PILE CONCRETE PLACING INSP. BY DOUG MOTZER PILE QUANTITY CHECK BY N. OBERT DATE 4-20-01

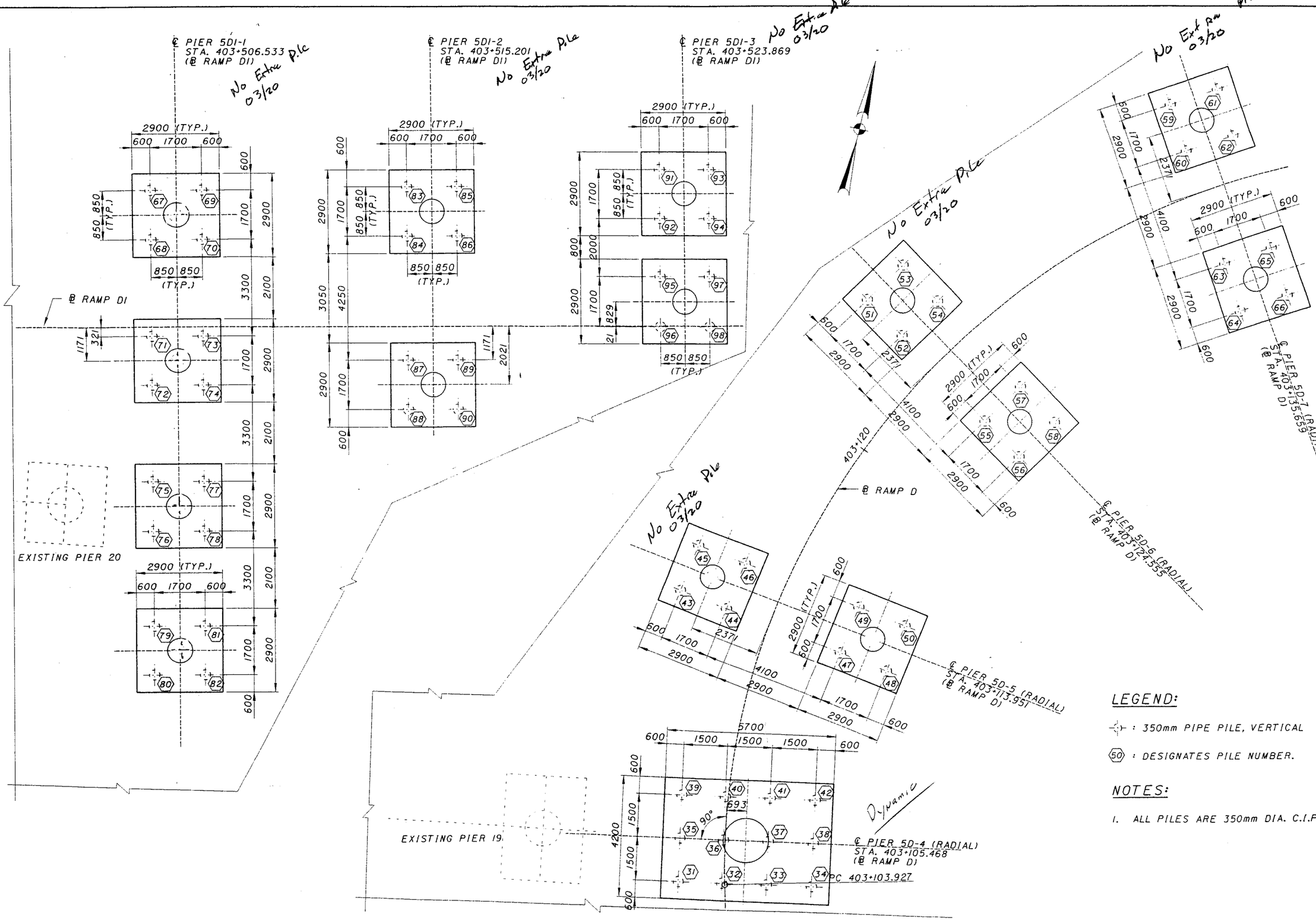
PILE NO.	DATE PILE DRIVEN	BLOWS PER 12"	DATE PILE CONCRETE PLACED	(1) SPEC. TOP OF PILE ELEV.	(2) SPEC. TP ELEV.	(3) LENGTH IN LEADS	(4) LENGTH OF CUT-OFF	(5) ACTUAL LENGTH IN GROUND (3-4)	(6) ACTUAL TP ELEV. (1-5)	(7) PAY LENGTH *SEE NOTE BELOW	REMARKS	PRE DRILL HOLE DEPTH	LENGTH OF RE-BAR REQ.
19	3-10-00	45	3-13-00	482.45	N/A	70.0	1.30	68.70	413.75	68.7	BATTER 4:1	N/A	N/A
20	3-10-00	45	3-13-00	482.45	N/A	70.0	0.70	69.30	413.15	69.3	BATTER 4:1	N/A	N/A
21	3-9-00	46	3-13-00	482.45	N/A	70.0	0.20	69.80	412.65	69.8	BATTER 4:1	N/A	N/A
22	3-8-00	42	3-13-00	482.45	N/A	80.0	9.50	70.50	411.95	70.5	BATTER 4:1	N/A	N/A
23	3-10-00	42	3-13-00	482.45	N/A	80.0	7.30	72.70	409.75	72.7	VERTICAL	N/A	N/A
24	3-9-00	42	3-13-00	482.45	N/A	70.0	2.80	67.20	415.25	67.2	VERTICAL	N/A	N/A
25	3-10-00	44	3-13-00	482.45	N/A	80.0	7.50	72.50	409.95	72.5	VERTICAL	N/A	N/A
26	3-9-00	47	3-13-00	482.45	N/A	70.0	0.70	69.30	413.15	69.3	VERTICAL	N/A	N/A
27	3-10-00	49	3-13-00	482.45	N/A	80.0	8.60	71.40	411.05	71.4	BATTER 4:1	N/A	N/A
28	3-10-00	43	3-13-00	482.45	N/A	80.0	6.30	73.70	408.75	73.7	BATTER 4:1	N/A	N/A
29	3-10-00	42	3-13-00	482.45	N/A	80.0	6.30	73.70	408.75	73.7	BATTER 4:1	N/A	N/A
30	3-10-00	50	3-13-00	482.45	N/A	80.0	8.20	71.80	410.65	71.8	BATTER 4:1	N/A	N/A
SHEET TOTALS				ITEM NO. 8 12 EA.				ITEM NO. 8 850.4 L.F.					

*THE PAY LENGTH IS THE ACTUAL LENGTH IN THE GROUND, EXCEPT THAT NO PAY WILL BE MADE FOR THAT LENGTH OF PILE DRIVEN BELOW THE ELEVATION WHERE SPECIFIED TIP AND/OR SPECIFIED BEARING (WHOEVER IS LOWER) WAS OBTAINED ALSO, WHEN STEEL PILES ARE SUBSTITUTED FOR CLASS 45.1 45.2 OR 70 PILING THE LOWER LIMIT FOR PAYMENT WILL BE NO LOWER THAN THE SPECIFIED TIP ELEVATION.

259.263M

Pier 5D-3 Pile Summary

40C
125



Revised Per Design Ltr. Mtg. 12/01/99

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2300
CINCINNATI, OH 45202-2720

REVISED	DATE	DRAWN	PREPARED	CHECKED
	12-02-99	JAS	TOM	VWM
STRUCTURE FILE NUMBER		REVIEWED		

CITY OF CINCINNATI
CONTRACT NO. 75X5753

FOUNDATION LAYOUT PLAN, 2 OF 3
BRIDGE NO. 5B
CLAY WADE BAILEY BRIDGE TO SECOND STREET

7 / 9

41 / 125

12/01/99 Wed Dec 11:56:27 1999
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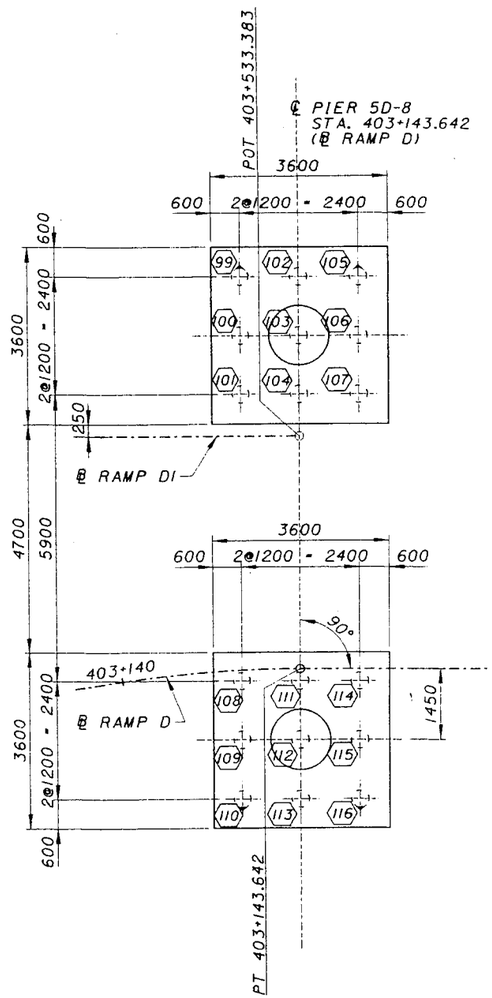

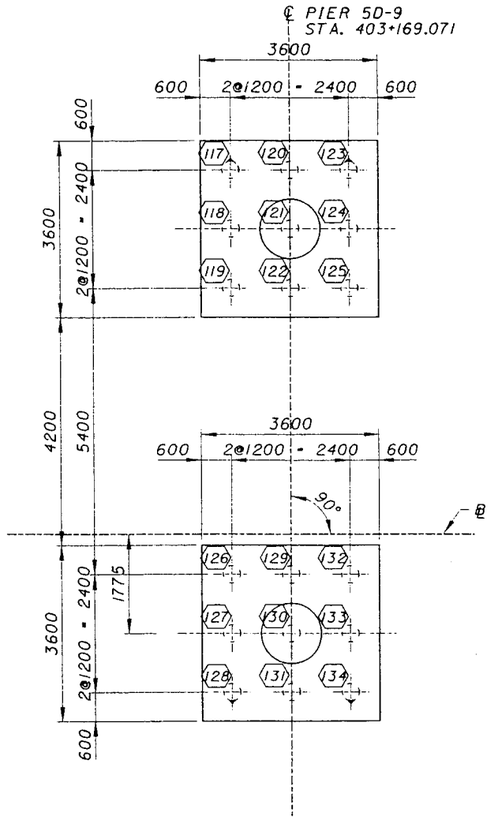

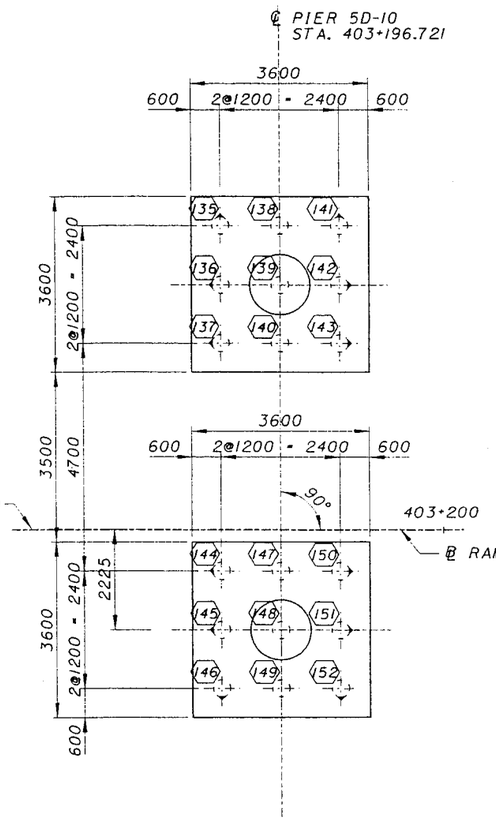

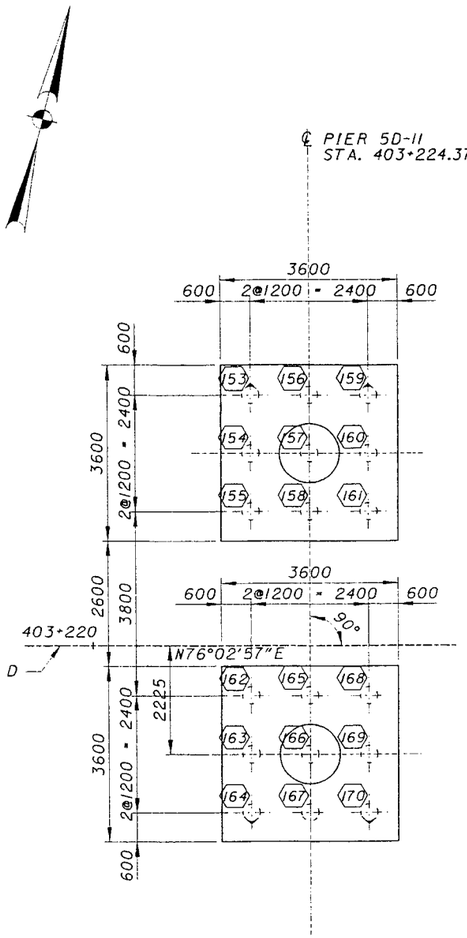

LEGEND:

: 350mm PIPE PILE, VERTICAL

: 350mm PIPE PILE, BATTER FOUR VERTICAL TO ONE HOIZONTAL IN DIRECTION OF ARROW.

(164) : DESIGNATES PILE NUMBER.

NOTES:

1. ALL PILES ARE 350mm DIA. C.I.P.

DESIGN AGENCY
PB
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 1800
CINCINNATI, OH 45202-2180

REVISED	DATE
	12-02-99

STRUCTURE FILE NUMBER
316066/

DRAWN	REVIEWED
JAS	

PREPARED	CHECKED
VJR	TOM

FOUNDATION AND PILE LAYOUT PLAN, 3 OF 3
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

8/491

42/125

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FORT WASHINGTON WAY 2000

City of Cincinnati

PILE QUANTITY & DRIVING RECORD
DRIVEN PILES

PIER #5D-8

STRUCTURE BRIDGE #5C - CONTRACT #14

ITEM DESCRIPTION CAST-IN-PLACE PILING
WALL THICKNESS = 318"

TYPE PILE USED 350MM CIP REINF. CONC. PILING
SEE WAVE

HAMMER MAKE DELMAG D-19 MODEL APE D19-32 E= EQUATION ANALYSIS

DESIGN BRNG. 756 KN REQUIRED BRNG. 1512 KN=340 KIPS BLOW/FT AT REQUIRED BRNG. 50 *

PILE DRIVING INSPECTED BY JIM EHRET PILE QUANTITY CALC BY DOUG MOHLER DATE 4-17-00
DOUG MOHLER

PILE CONCRETE PLACING INSP. BY JIM EHRET PILE QUANTITY CHECK BY NORM OBERT DATE 4-24-01

PILE NO.	DATE PILE DRIVEN	BLOWS PER 12"	DATE PILE CONCRETE PLACED	(1) SPEC. TOP OF PILE ELEV.	(2) SPEC. TP ELEV.	(3) LENGTH IN LEADS	(4) LENGTH OF CUT-OFF	(5) ACTUAL LENGTH IN GROUND (3-4)	(6) ACTUAL TP ELEV. (1-5)	(7) PAY LENGTH *SEE NOTE BELOW	REMARKS	PRE DRILL HOLE DEPTH	LENGTH OF RE-BAR REQ.
99	4-13-00	51	4-17-00	483.92	N/A	85.0	12.1	72.9	411.02	72.9	BATTER 4:1	N/A	N/A
100	4-13-00	52	4-17-00	483.92	N/A	85.0	10.9	74.1	409.82	74.1	VERTICAL	N/A	N/A
101	4-13-00	52	4-17-00	483.92	N/A	85.0	11.0	74.0	409.92	74.0	VERTICAL	N/A	N/A
102	4-13-00	52	4-17-00	483.92	N/A	85.0	14.0	71.0	412.92	71.0	VERTICAL	N/A	N/A
103	4-13-00	51	4-17-00	483.92	N/A	85.0	4.0	81.0	402.92	81.0	VERTICAL	N/A	N/A
104	4-13-00	57	4-17-00	483.92	N/A	85.0	19.5	65.5	418.42	65.5	VERTICAL	N/A	N/A
105	4-14-00	55	4-17-00	483.92	N/A	85.0	13.0	72.0	411.92	72.0	BATTER 4:1	N/A	N/A
106	4-13-00	50	4-17-00	483.92	N/A	85.0	8.1	76.9	407.02	76.9	VERTICAL	N/A	N/A
107	4-13-00	55	4-17-00	483.92	N/A	85.0	9.4	75.6	408.32	75.6	VERTICAL	N/A	N/A
108	4-14-00	54	4-17-00	483.92	N/A	85.0	17.2	67.8	416.12	67.8	VERTICAL	N/A	N/A
109	4-14-00	51	4-17-00	483.92	N/A	78.0	8.1	69.9	414.02	69.9	VERTICAL	N/A	N/A
110	4-17-00	50	4-17-00	483.92	N/A	85.0	18.5	66.5	417.42	66.5	BATTER 4:1	N/A	N/A
111	4-14-00	57	4-17-00	483.92	N/A	85.0	17.7	67.3	416.62	67.3	VERTICAL	N/A	N/A
112	4-14-00	50	4-17-00	483.92	N/A	85.0	17.7	67.3	416.62	67.3	VERTICAL	N/A	N/A
113	4-17-00	53	4-17-00	483.92	N/A	85.0	15.2	69.8	414.12	69.8	VERTICAL	N/A	N/A
114	4-14-00	57	4-17-00	483.92	N/A	75.0	7.6	67.4	416.52	67.4	VERTICAL	N/A	N/A
115	4-14-00	51	4-17-00	483.92	N/A	75.0	9.5	65.5	418.42	65.5	VERTICAL	N/A	N/A
116	4-17-00	58	4-17-00	483.92	N/A	70.0	4.0	66.0	417.92	66.0	BATTER 4:1	N/A	N/A
*	BASED ON DYNAMIC TEST AND STROKE OF 7-7½ FT AT FUEL SETTING ON ABUEL 3												
SHEET TOTALS				ITEM NO. 8 18 EA.					ITEM NO. 8 1270.5 L.F.				

387.248M

*THE PAY LENGTH IS THE ACTUAL LENGTH IN THE GROUND, EXCEPT THAT NO PAY WILL BE MADE FOR THAT LENGTH OF PILE DRIVEN BELOW THE ELEVATION WHERE SPECIFIED TIP AND/OR SPECIFIED BEARING (WHOEVER IS LOWER) WAS OBTAINED ALSO, WHEN STEEL PILES ARE SUBSTITUTED FOR CLASS 45.1 45.2 OR 70 PILING THE LOWER LIMIT FOR PAYMENT WILL BE NO LOWER THAN THE SPECIFIED TIP ELEVATION.

Pier 5D-8 Pile Summary

42A
125

FORT WASHINGTON WAY 2000

City of Cincinnati

PILE QUANTITY & DRIVING RECORD
DRIVEN PILES

PIER #5D-9

STRUCTURE BRIDGE #5C - CONTRACT #14

ITEM DESCRIPTION CAST-IN-PLACE-PILING

TYPE PILE USED 350MM CIP REINF. CONC. PILING SEE WAVE

HAMMER MAKE DELMAG D-19 MODEL APE D19-32 E= EQUATION ANALYSIS

DESIGN BRNG. 756 kN REQUIRED BRNG. 1512kN = 340KIPS BLOW/FT AT REQUIRED BRNG. 50*

PILE DRIVING INSPECTED BY DOUG MOELLER PILE QUANTITY CALC BY DOUG MOELLER DATE 4-6-00

PILE CONCRETE PLACING INSP. BY DOUG MOELLER PILE QUANTITY CHECK BY NORM OBERT DATE 4-25-01

PILE NO.	DATE PILE DRIVEN	BLOWS PER F 12"	DATE PILE CONCRETE PLACED	(1) SPEC. TOP OF PILE ELEV.	(2) SPEC. TP ELEV.	(3) LENGTH IN LEADS	(4) LENGTH OF CUT-OFF	(5) ACTUAL LENGTH IN GROUND (3-4)	(6) ACTUAL TP ELEV. (1-5)	(7) PAY LENGTH *SEE NOTE BELOW	REMARKS	PRE DRILL HOLE DEPTH	LENGTH OF RE-BAR REQ.
117	4-6-00	54	4-6-00	483.92	N/A	70.0	13.7	56.3	427.62	56.3	BATTERED 4:1	N/A	N/A
118	4-5-00	55	4-6-00	483.92	N/A	75.0	17.1	57.9	426.02	57.9	VERTICAL	N/A	N/A
119	4-5-00	61	4-6-00	483.92	N/A	75.0	17.2	57.8	426.12	57.8	VERTICAL	N/A	N/A
120	4-5-00	50	4-6-00	483.92	N/A	80.0	22.0	58.0	425.92	58.0	VERTICAL	N/A	N/A
121	4-5-00	60	4-6-00	483.92	N/A	80.0	23.2	56.8	427.12	56.8	VERTICAL	N/A	N/A
122	4-4-00	50	4-6-00	483.92	N/A	80.0	22.3	57.7	426.22	57.7	VERTICAL	N/A	N/A
123	4-4-00	66	4-6-00	483.92	N/A	80.0	22.0	58.0	425.92	58.0	BATTER 4:1	N/A	N/A
124	4-5-00	63	4-6-00	483.92	N/A	80.0	23.3	56.7	427.22	56.7	VERTICAL	N/A	N/A
125	4-4-00	54	4-6-00	483.92	N/A	70.0	10.4	59.6	424.32	59.6	VERTICAL	N/A	N/A
126	4-5-00	53	4-6-00	483.92	N/A	80.0	6.6	73.4	410.52	73.4	VERTICAL	N/A	N/A
127	4-5-00	50	4-6-00	483.92	N/A	80.0	1.9	78.1	405.82	78.1	VERTICAL	N/A	N/A
128	4-6-00	51	4-6-00	483.92	N/A	70.0	7.0	63.0	420.92	63.0	BATTER 4:1	N/A	N/A
129	4-5-00	56	4-6-00	483.92	N/A	80.0	18.8	61.2	422.72	61.2	VERTICAL	N/A	N/A
130	4-5-00	50	4-6-00	483.92	N/A	80.0	6.9	73.1	410.82	73.1	VERTICAL	N/A	N/A
131	4-5-00	57	4-6-00	483.92	N/A	80.0	19.9	60.1	423.82	60.1	VERTICAL	N/A	N/A
132	4-4-00	66	4-6-00	483.92	N/A	70.0	2.3	67.7	416.22	67.7	VERTICAL	N/A	N/A
133	4-4-00	66	4-6-00	483.92	N/A	82.0	12.1	69.9	414.02	69.9	VERTICAL	N/A	N/A
134	4-6-00	54	4-6-00	483.92	N/A	76.0	13.0	63.0	420.92	63.0	BATTER 4:1	N/A	N/A
*	BASED ON DRIVING		DYNAMIC TEST ON LEVEL		3.	AND	STROKE	OF	7-7½	FT AT	FUEL		
SHEET TOTALS				ITEM NO. 8 18 EA.				ITEM NO. 8 1128.3 L.F.					

*THE PAY LENGTH IS THE ACTUAL LENGTH IN THE GROUND, EXCEPT THAT NO PAY WILL BE MADE FOR THAT LENGTH OF PILE DRIVEN BELOW THE ELEVATION WHERE SPECIFIED TIP AND/OR SPECIFIED BEARING (WHOEVER IS LOWER) WAS OBTAINED ALSO, WHEN STEEL PILES ARE SUBSTITUTED FOR CLASS 45.1 45.2 OR 70 PILING THE LOWER LIMIT FOR PAYMENT WILL BE NO LOWER THAN THE SPECIFIED TIP ELEVATION.

343.906M

Pier 5D-9 Pile Summary

42B
125

FORT WASHINGTON WAY 2000

City of Cincinnati

PILE QUANTITY & DRIVING RECORD (DRIVEN PILES)

PIER #5D-10

STRUCTURE BRIDGE #5C- CONTRACT #14

ITEM DESCRIPTION CAST-IN-PLACE PILING WALL THICKNESS = .317"

TYPE PILE USED 350MM CIP REINF. CONC. PILING

HAMMER MAKE DELMAG D-19 MODEL APE D19-32 E= EQUATION ANALYSIS SEE WAVE

DESIGN BRNG. 756KN REQUIRED BRNG. 1512KN=340KIPS BLOW/FT AT REQUIRED BRNG. 50 *

PILE DRIVING INSPECTED BY JIM EHRET PILE QUANTITY CALC BY DOUG MOHLER DOUG MOHLER DATE 4-5-00

PILE CONCRETE PLACING INSP. BY JIM EHRET PILE QUANTITY CHECK BY NORM OBERT DATE 4-25-01

PILE NO.	DATE PILE DRIVEN	BLOWS PER 12"	DATE PILE CONCRETE PLACED	(1) SPEC. TOP OF PILE ELEV.	(2) SPEC. TP ELEV.	(3) LENGTH IN LEADS	(4) LENGTH OF CUT-OFF	(5) ACTUAL LENGTH IN GROUND (3-4)	(6) ACTUAL TP ELEV. (1-5)	(7) PAY LENGTH *SEE NOTE BELOW	REMARKS	PRE DRILL HOLE DEPTH	LENGTH OF RE-BAR REQ.
135	3-31-00	55	4-5-00	484.25	N/A	80.0	7.7	72.3	411.95	72.3	BATTER 4:1	N/A	N/A
136	4-3-00	69	4-5-00	484.25	N/A	81.0	10.3	70.7	413.55	70.7	BATTER 4:1	N/A	N/A
137	4-3-00	85	4-5-00	484.25	N/A	88.0	16.0	72.0	412.25	72.0	BATTER 4:1	N/A	N/A
138	3-31-00	50	4-5-00	484.25	N/A	75.0	4.0	71.0	413.25	71.0	VERTICAL	N/A	N/A
139	3-31-00	54	4-5-00	484.25	N/A	75.0	5.3	69.7	414.55	69.7	VERTICAL	N/A	N/A
140	3-30-00	48	4-5-00	484.25	N/A	75.0	6.2	68.8	415.45	68.8	VERTICAL	N/A	N/A
141	3-31-00	60	4-5-00	484.25	N/A	75.0	3.6	71.4	412.85	71.4	BATTER 4:1	N/A	N/A
142	3-31-00	60	4-5-00	484.25	N/A	80.0	8.0	72.0	412.25	72.0	BATTER 4:1	N/A	N/A
143	3-31-00	59	4-5-00	484.25	N/A	75.0	2.9	72.1	412.15	72.1	BATTER 4:1	N/A	N/A
144	4-3-00	100	4-5-00	484.25	N/A	90.0	19.1	70.9	413.35	70.9	BATTER 4:1	N/A	N/A
145	4-3-00	50	4-5-00	484.25	N/A	70.0	1.9	68.1	416.15	68.1	BATTER 4:1	N/A	N/A
146	4-5-00	60	4-5-00	484.25	N/A	86.0	14.0	72.0	412.25	72.0	BATTER 4:1	N/A	N/A
147	3-31-00	53	4-5-00	484.25	N/A	95.0	12.8	82.2	402.05	82.2	VERTICAL	N/A	N/A
148	3-31-00	83	4-5-00	484.25	N/A	75.0	3.7	71.3	412.95	71.3	VERTICAL	N/A	N/A
149	3-31-00	50	4-5-00	484.25	N/A	90.0	9.0	81.0	403.25	81.0	VERTICAL	N/A	N/A
150	4-4-00	63	4-5-00	484.25	N/A	80.0	8.8	71.2	413.05	71.2	BATTER 4:1	N/A	N/A
151	4-4-00	51	4-5-00	484.25	N/A	80.0	8.9	71.1	413.15	71.1	BATTER 4:1	N/A	N/A
152	4-4-00	63	4-5-00	484.25	N/A	80.0	8.0	72.0	412.25	72.0	BATTER 4:1	N/A	N/A
*	BASED ON SETTING		DYNAMIC TEST ON LEVEL		AND 3	STROKE OF	7-7½	FT AT FUEL					
SHEET TOTALS				ITEM NO. 8 18 EA.				ITEM NO. 8 1299.8 L.F. 396.179 M					

*THE PAY LENGTH IS THE ACTUAL LENGTH IN THE GROUND, EXCEPT THAT NO PAY WILL BE MADE FOR THAT LENGTH OF PILE DRIVEN BELOW THE ELEVATION WHERE SPECIFIED TIP AND/OR SPECIFIED BEARING (WHOEVER IS LOWER) WAS OBTAINED ALSO, WHEN STEEL PILES ARE SUBSTITUTED FOR CLASS 45.1 45.2 OR 70 PILING THE LOWER LIMIT FOR PAYMENT WILL BE NO LOWER THAN THE SPECIFIED TIP ELEVATION.

Pier 5D-10 Pile Summary

42C
125

FORT WASHINGTON WAY 2000

City of Cincinnati

PILE QUANTITY & DRIVING RECORD (DRIVEN PILES)

PIER #5D-11

STRUCTURE BRIDGE #5C - CONTRACT #14

ITEM DESCRIPTION CAST-IN-PLACE PILING
WALL THICKNESS=.318"

TYPE PILE USED 350 MM CIP REINF. CONC. PILING
SEE WALL

HAMMER MAKE DELMAG D-19 MODEL APE D19-32 E= EQUATION ANNEX S 25

DESIGN BRNG. 756 kN REQUIRED BRNG. 1512kN = 340KIPS BLOW/FT AT REQUIRED BRNG. 50 #

PILE DRIVING INSPECTED BY JIM EHRET DOUG MOHLER PILE QUANTITY CALC BY JIM EHRET DATE 3-31-00

PILE CONCRETE PLACING INSP. BY RAY MURPHY PILE QUANTITY CHECK BY NORM OGLE DATE 4-27-01

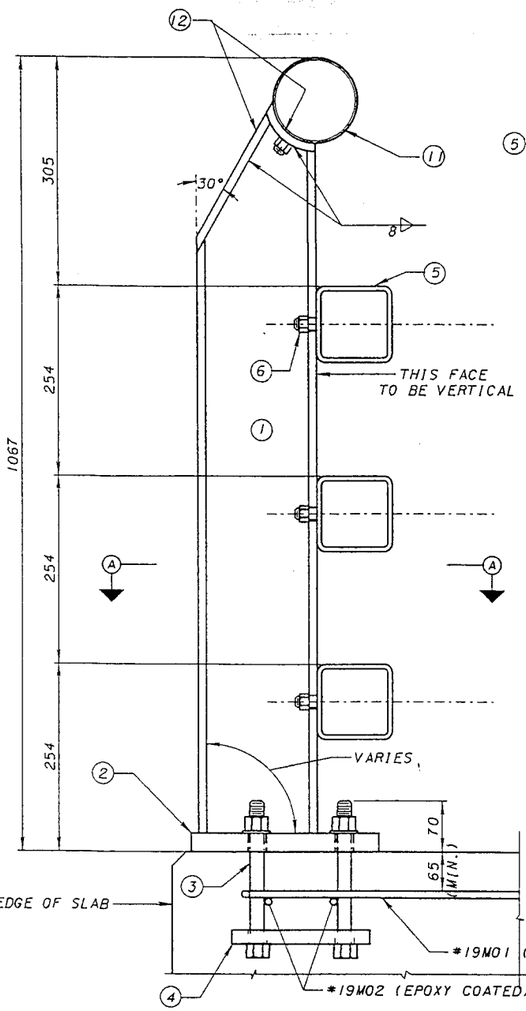
PILE NO.	DATE PILE DRIVEN	BLOWS PER ft	DATE PILE CONCRETE PLACED	(1) SPEC. TOP OF PILE ELEV.	(2) SPEC. TP ELEV.	(3) LENGTH IN LEADS	(4) LENGTH OF CUT-OFF	(5) ACTUAL LENGTH IN GROUND (3-4)	(6) ACTUAL TP ELEV. (1-5)	(7) PAY LENGTH *SEE NOTE BELOW	REMARKS	PRE DRILL HOLE DEPTH	LENGTH OF RE-BAR REQ.
153	~~3-30-00~~	68	3-31-00	484.58	N/A	75.0	8.10	66.90	417.68	66.9	BATTER 4:1	N/A	N/A
154	3-30-00	60	3-31-00	484.58	N/A	91.0	16.05	74.95	409.63	74.95	VERTICAL	N/A	N/A
155	3-30-00	54	3-31-00	484.58	N/A	95.0	17.90	77.10	407.48	77.10	VERTICAL	N/A	N/A
156	3-30-00	54	3-31-00	484.58	N/A	88.0	12.10	75.90	408.68	75.90	VERTICAL	N/A	N/A
157	3-31-00	60	3-31-00	484.58	N/A	90.0	13.25	76.75	407.83	76.75	VERTICAL	N/A	N/A
158	3-30-00	50	3-31-00	484.58	N/A	75.0	8.10	66.90	417.68	66.90	VERTICAL	N/A	N/A
159	3-31-00	52	3-31-00	484.58	N/A	75.0	6.85	68.15	416.43	68.15	BATTER 4:1	N/A	N/A
160	3/30-00	51	3-31-00	484.58	N/A	93.0	15.20	77.80	406.78	7780	VERTICAL	N/A	N/A
161	3-30-00	50	3-31-00	484.58	N/A	75.0	9.28	65.72	418.86	65.72	VERTICAL	N/A	N/A
162	3-30-00	50	3-31-00	484.58	N/A	75.0	6.85	68.15	416.43	68.15	VERTICAL	N/A	N/A
163	3-30-00	51	3-31-00	484.58	N/A	75.0	8.20	66.80	417.78	66.80	VERTICAL	N/A	N/A
164	3-31-00	61	3-31-00	484.58	N/A	75.0	6.70	68.30	416.28	68.30	BATTER 4:1	N/A	N/A
165	3-31-00	50	3-31-00	484.58	N/A	85.0	9.65	75.35	409.23	75.35	VERTICAL	N/A	N/A
166	3-30-00	51	3-31-00	484.58	N/A	75.0	7.70	67.30	417.28	67.30	VERTICAL	N/A	N/A
167	3-30-00	52	3-31-00	484.58	N/A	75.0	6.88	68.12	416.46	68.12	VERTICAL	N/A	N/A
168	3-30-00	54	3-31-00	484.58	N/A	75.0	9.90	65.10	419.48	65.10	VERTICAL	N/A	N/A
169	3-30-00	54	3-31-00	484.58	N/A	75.0	8.00	67.00	417.58	67.00	VERTICAL	N/A	N/A
170	3-31-00	66	3-31-00	484.58	N/A	75.0	6.48	68.52	416.06	68.52	BATTER 4:1	N/A	N/A
SHEET TOTALS				ITEM NO. 8 18 EA.				ITEM NO. 8 12648 L.F.					

*THE PAY LENGTH IS THE ACTUAL LENGTH IN THE GROUND, EXCEPT THAT NO PAY WILL BE MADE FOR THAT LENGTH OF PILE DRIVEN BELOW THE ELEVATION WHERE SPECIFIED TIP AND/OR SPECIFIED BEARING (WHOEVER IS LOWER) WAS OBTAINED ALSO, WHEN STEEL PILES ARE SUBSTITUTED FOR CLASS 45.1 45.2 OR 70 PILING THE LOWER LIMIT FOR PAYMENT WILL BE NO LOWER THAN THE SPECIFIED TIP ELEVATION.

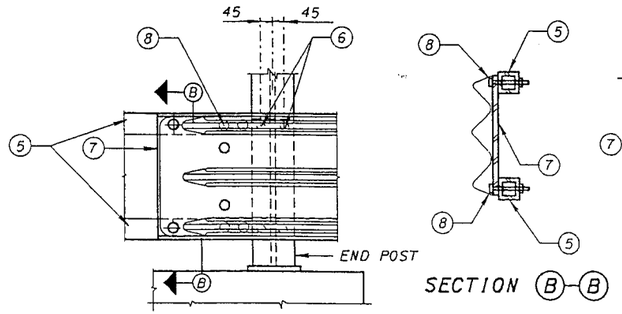
385.514M

Pier 5D-11 Pile Summary

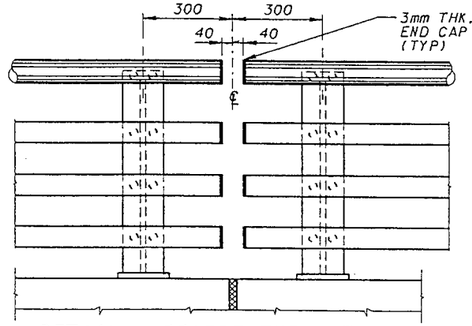
42D
125



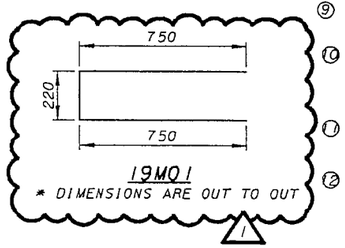
SECTION THRU RAILING ON DECK



DETAIL AT TRANSITION TO THREE BEAM GUARD RAIL



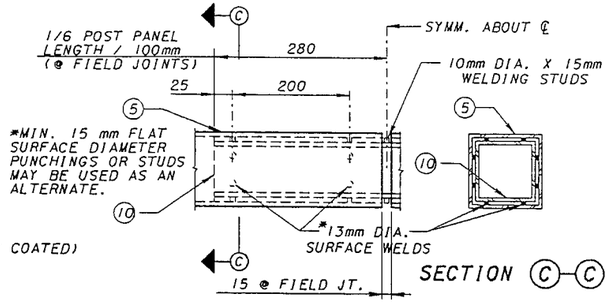
DETAIL @ BRIDGE EXP. JT.



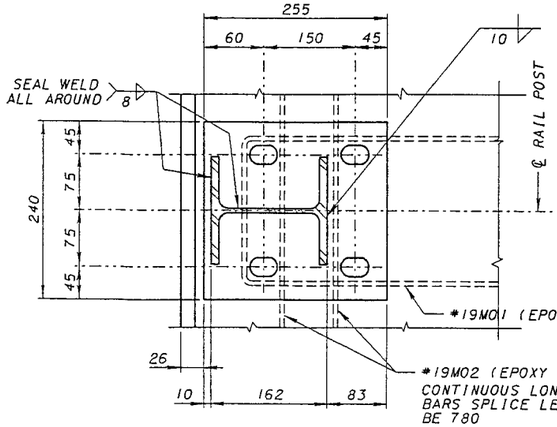
19M01

* DIMENSIONS ARE OUT TO OUT

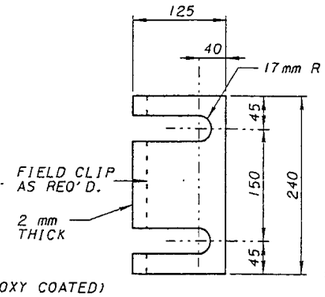
1



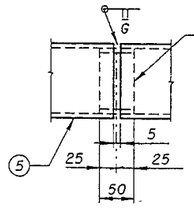
FIELD ERECTION JOINT DETAIL



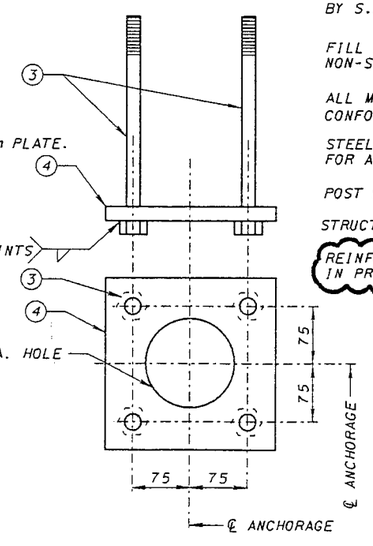
SECTION (A)-(A)



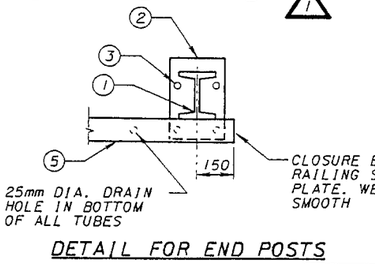
POST SHIM DETAIL
(4 PER POST)



SHOP RAIL SPLICE DETAIL
(LOCATION MUST BE SHOWN
ON SHOP DRAWINGS)



ANCHORAGE DETAIL



DETAIL FOR END POSTS

LEGEND

1. W150X37 WITH 35 mm DIA. HOLES ON EACH SIDE OF POST FOR STUD NO. 6. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POSTS NORMAL TO GRADE LINE.
2. PLATE 25 mm X 240 mm X 255 mm WITH 27 mm X 40 mm SLOTTED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN.
3. A325M- M22 X 200 mm LONG HEX BOLTS (GALVANIZED) WITH A325M NUT & WASHER. 4 REQ'D. PER POST. THREAD 75 mm AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING. USE 360 mm LONG AT END POST.
4. 6 mm X 200 mm X 200 mm FLAT BAR, WITH 24 mm DIA. HOLES FOR ANCHOR BOLTS NO.3
5. TS 102 X 102 X 6.4 STRUCTURAL TUBING, CONFORMING TO A501 or A500 GRADE B. ATTACH TO NO. 1 WITH STUDS NO. 6.
6. 16 mm DIA. X 40 mm LG. SHOP WELDED STUDS WITH HEX. NUT AND 50 mm WASHERS. (2 REQ'D. AT EACH RAIL TO POST LOCATION.)
7. PLATE 10 mm X 400 mm (475 mm ON SDWK.) X 510 mm . BOLT TO RAIL IN DETAIL. REQUIRED AT THREE BEAM GUARD RAIL ATTACHMENTS ONLY. PLACE SYMMETRICALLY ABOUT TUBES NO.5.
8. 25 mm DIA. HOLES IN PLATE NO. 7 & TUBES NO.5 FOR M22 A325M BOLTS W/HEX NUTS AND WASHERS.
9. SQUARE SLEEVE FABRICATED FROM 6 mm PLATE. PROVIDE "SLIDING FIT" WITH A MINIMUM OUT TO OUT DIMENSION OF 87 mm.
10. TS 76 X 76 X 6.4 X (700 mm AT EXPANSION JOINTS) & (560 mm AT FIELD JOINTS) LONG. PROVIDE 13 mm DIA. SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 5. PROVIDE 10 mm DIA. X 15 mm WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.
11. 114mm O.D.x 3mm THICK STEEL PIPE W/ END CAP CONFORMING TO ASTM DESIGNATION A500 GRADE B.
12. PLATE 12mm x 154mm (ONE STRAIGHT & ONE CURVED) WELD TO WEB OF W150x37 POST TOP AND GRIND SMOOTH.

GENERAL NOTES

RAILING SHALL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE BID ITEM "SUPERSTRUCTURE STATION 200+328.944 TO STATION 200+960.000".

RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS.

POST BASE PLATES, NO. 2, SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

RAILING SHALL BE GALVANIZED, NOT PAINTED.

FOR RAILING NOT TO BE PAINTED, ALL MATERIAL EXCEPT ANCHORAGE (No. 4) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS & STEEL TUBING SHALL BE GIVEN A NO. 6 BLAST CLEANING BY S.S.P.C. SPECIFICATIONS.

FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO. 2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

ALL MATERIALS USED IN FABRICATION SHALL BE MADE FROM MATERIALS CONFORMING TO ASTM A709M GRADE 250 UNLESS NOTED OTHERWISE.

STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REQ'D. FOR ALIGNMENT.

POST SHALL BE SPACED AT 2.438 M MAXIMUM.

STRUCTURAL TUBING RAILS SHALL BE CONTINUOUS OVER 3 POSTS MINIMUM.

REINFORCING BARS 19M01 AND 19M02 SHALL BE INCLUDED IN PRICE BID FOR RAILING.

1

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	ADDED BAR BEND DIAGRAM AND NOTE	12-22-99	VJR

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2739
102.

REVISED	DATE	DRAWN	REVIEWED
	12-22-99	JAS	

STRUCTURE FILE NUMBER

PREPARED	CHECKED
TOM	V.P.H

TYPICAL RAILING DETAILS
BRIDGE NO. 5A, 5B & 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

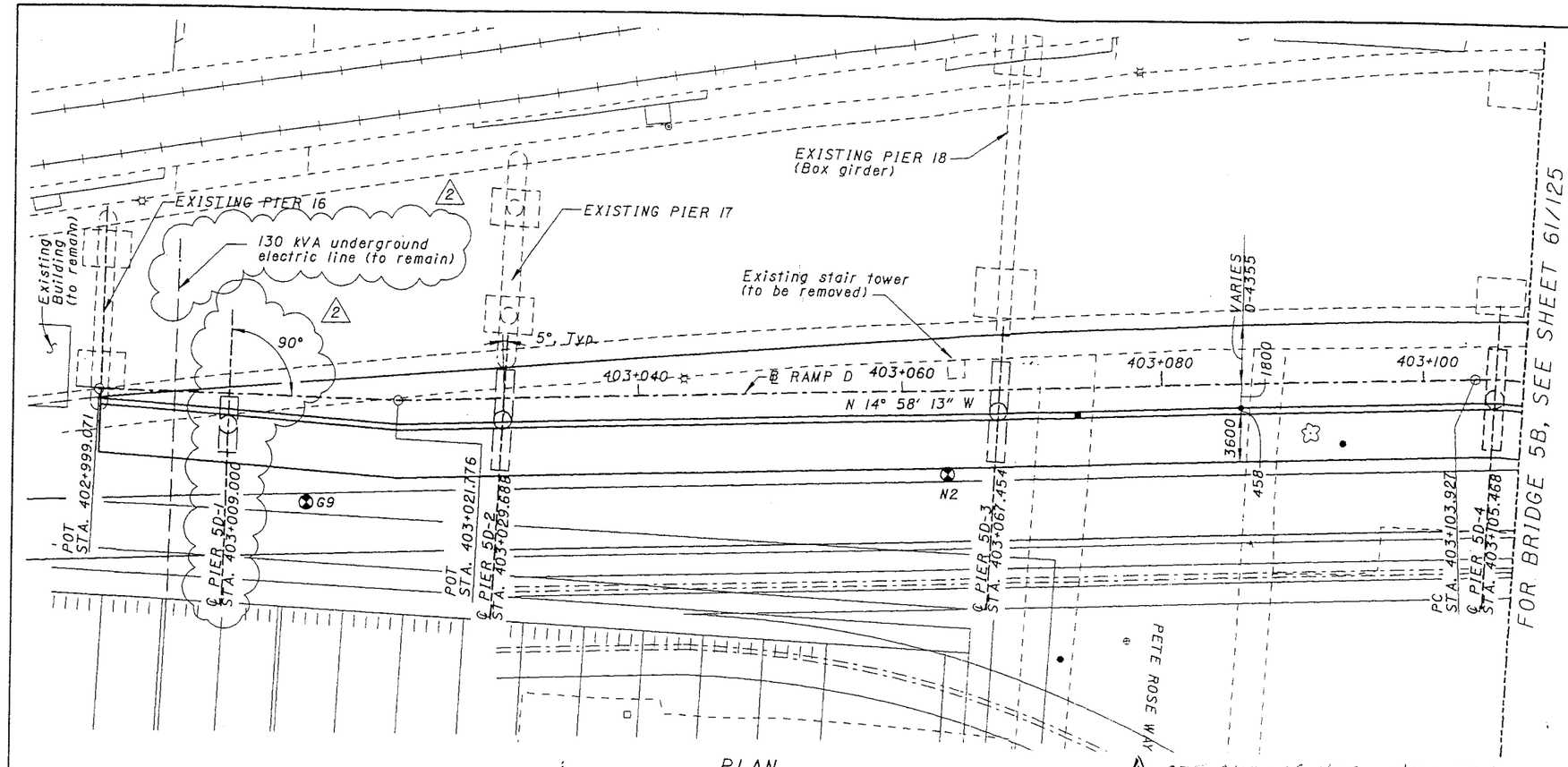
CITY OF CINCINNATI
CONTRACT NO. 75X57 53

9 / 9

43 / 125

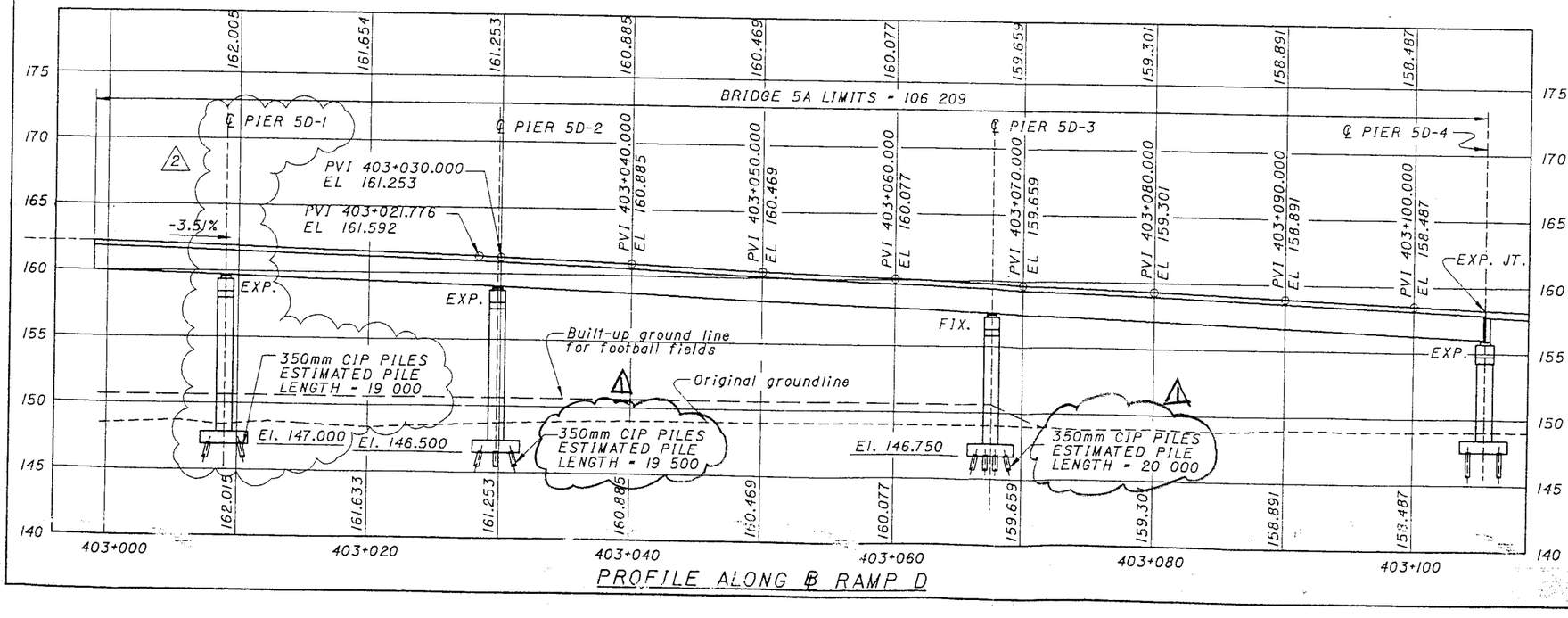
ADDENDUM NO. 1
DEC. 22, 1999

Section 3/6



PLAN

⚠1 SEE SHEETS 40A - 40C FOR ACTUAL PILE LENGTHS



PROFILE ALONG ℄ RAMP D

TRAFFIC DATA	
CURRENT ADT (2000)	-
DESIGN YEAR ADT (2020)	2650
DESIGN HOURLY VOLUME (2020)	790
TRUCKS (24hr B&C)	4%
DIRECTIONAL DISTRIBUTION	100%
DESIGN SPEED	50 km/hr
LEGAL SPEED	30 mph
DESIGN FUNCTION CLASSIFICATION	URBAN ARTERIAL
SOURCE	ODOT

BENCH MARK

SEE ROADWAY PLANS

NOTES:
All stations and elevations are in meters.
All dimensions and lengths are in millimeters.

INDICATE SOIL BORING LOCATION

2 Contractor shall exercise utmost caution when working near the underground electric line.

PROPOSED STRUCTURE

TYPE: 3-SPAN STEEL PLATE GIRDER "A709M (345), PAINTED" WITH REINFORCED CONCRETE DECK, SUPPORTED BY REINFORCED CONCRETE PIERS

LENGTH OF SPANS: 2
9695 SPAN 1
20 690 SPAN 2
37 765 SPAN 3
38 065 SPAN 4
MEASURED c/c BEARING ALONG ℄

ROADWAY WIDTH: VARIES

DESIGN LOADING: MS18 WITH ALTERNATE MILITARY LOADING, CASE II

SKEW ANGLE: VARIES

SUPERELEVATION: .016

WEARING SURFACE: 37 MM MSMC OVERLAY

APPROACH SLABS: NONE

ALIGNMENT: TANGENT AND CURVE TO RIGHT

LATITUDE: N 39°05'45"
LONGITUDE: W 84°31'15"

REVISION 2 PSU - 3/13/03

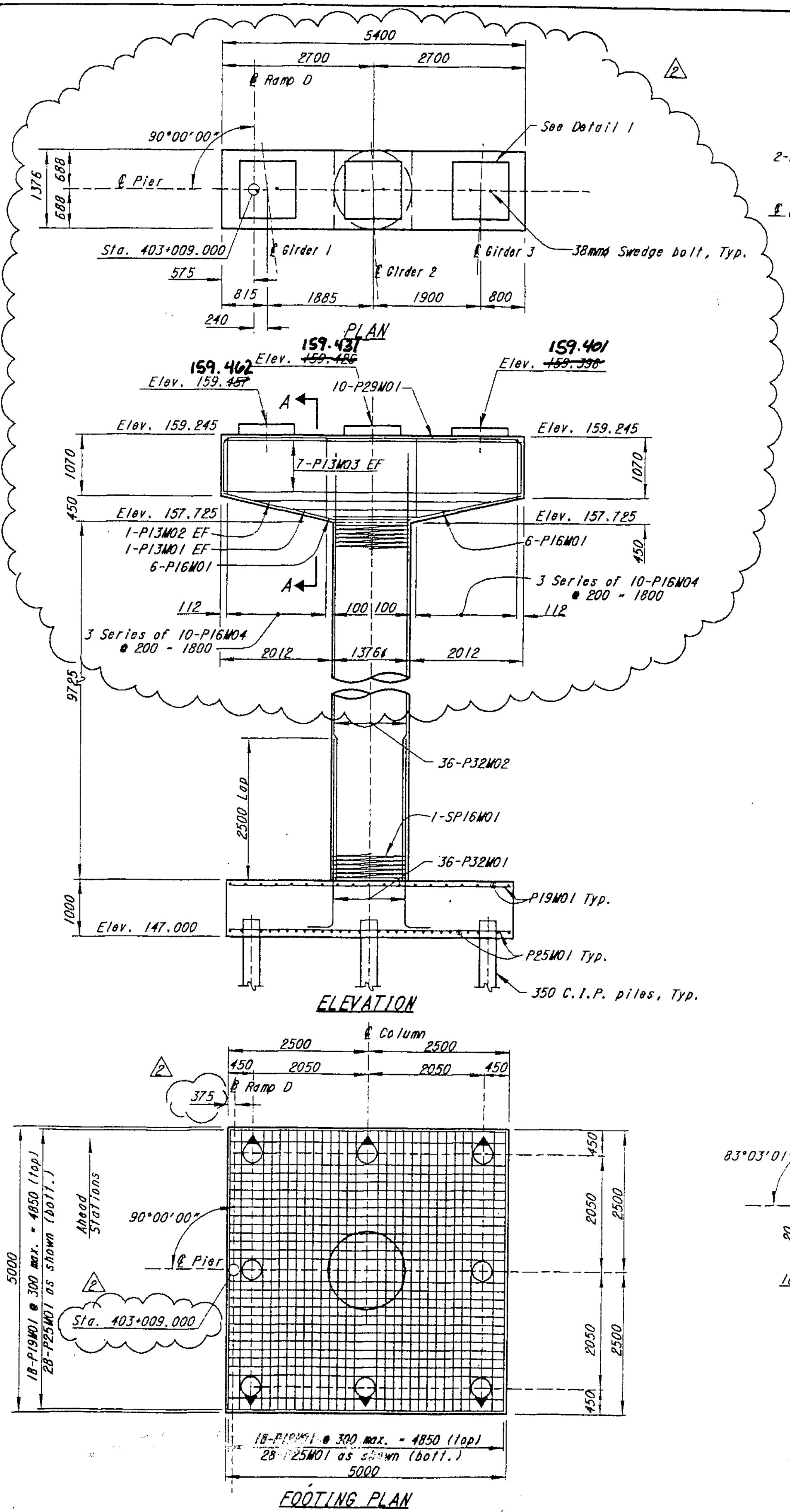
STATE OF OHIO
MICHAEL R. STURDEVANT
No. E-49864
REGISTERED PROFESSIONAL ENGINEER
SIGNED:
DATE:

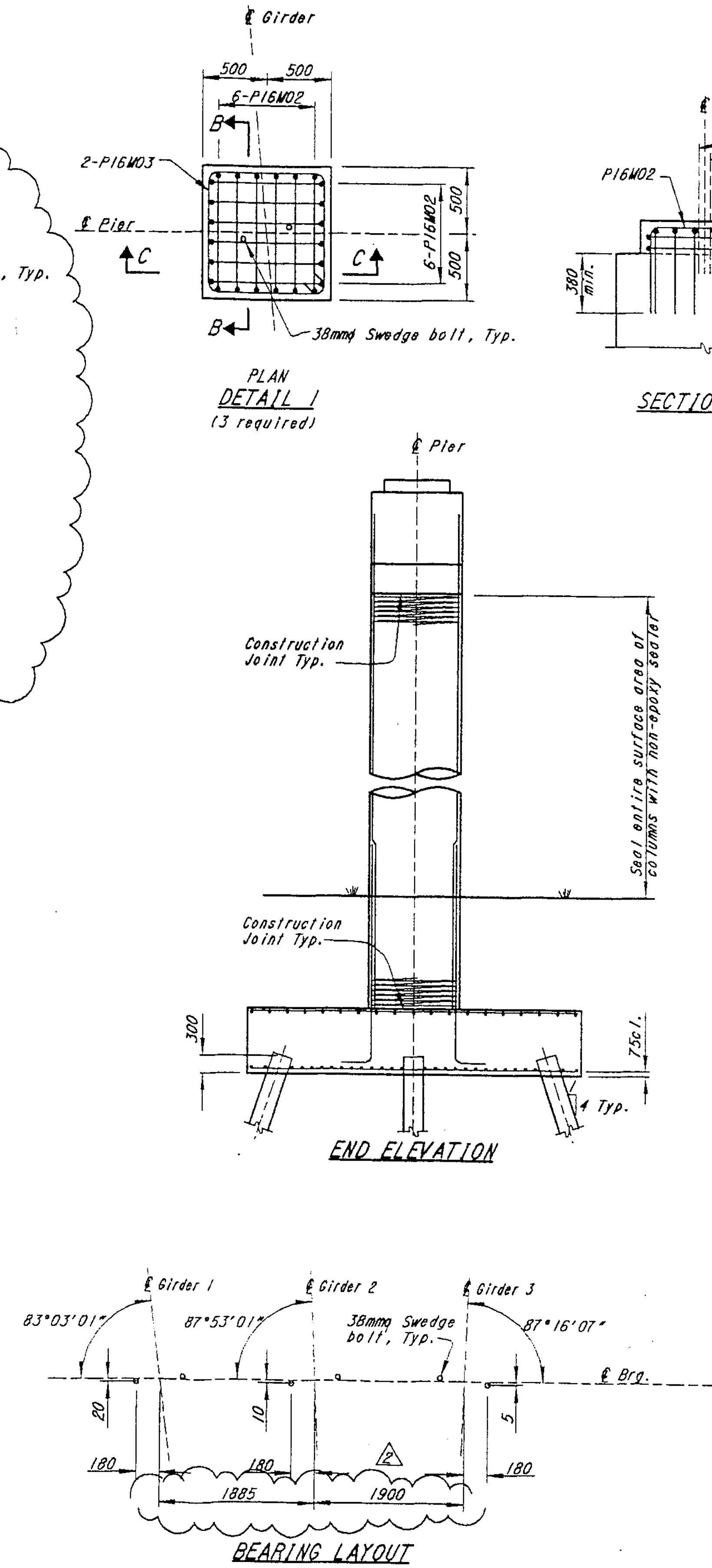
BALKE ENGINEERS
1848 Summit Road
Cincinnati, Ohio 45237

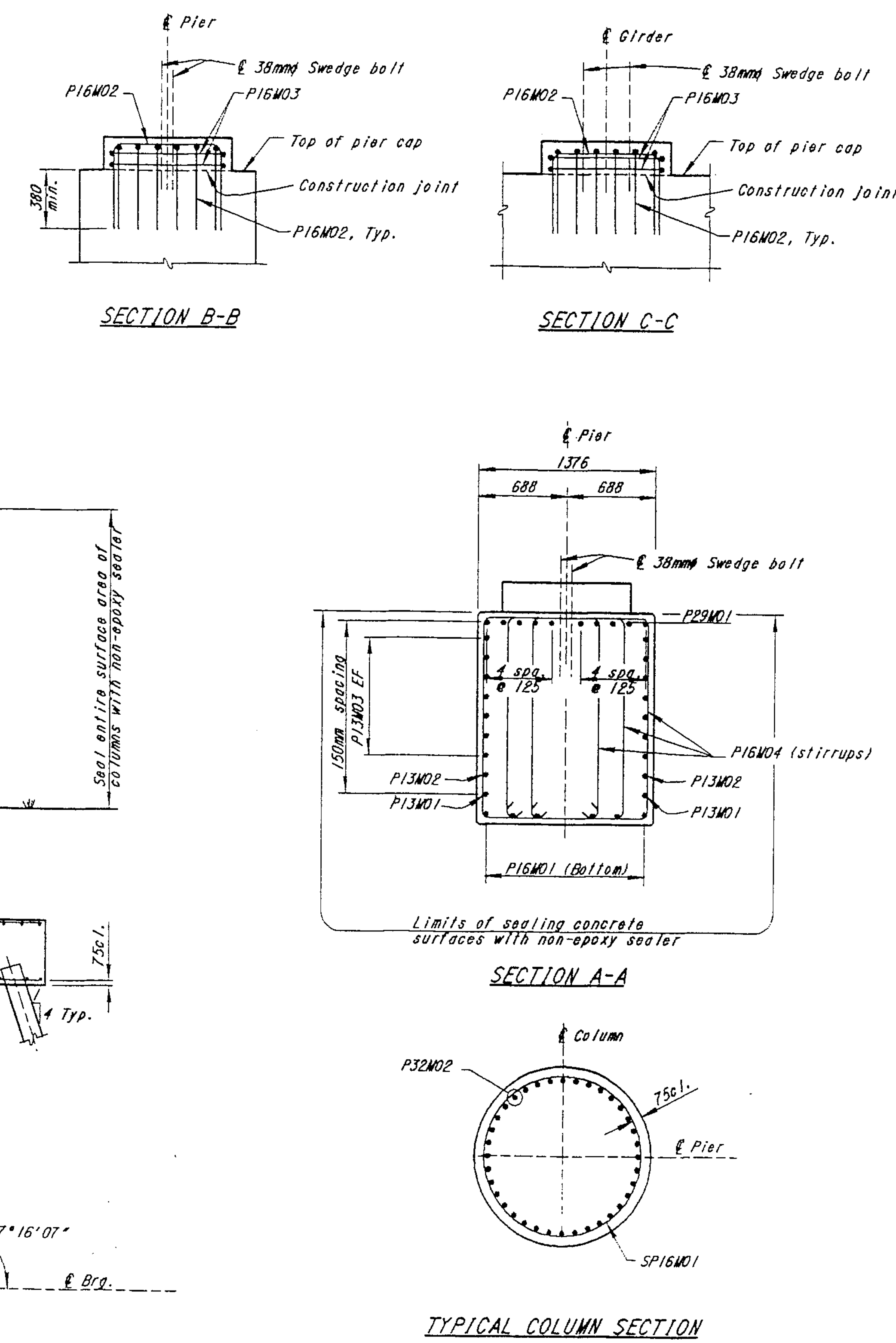
DESIGN AGENCY
PARSONS BRINCKERHOFF INC.

DATE
REVISED
DRAWN JAS
PREPARED VPH

SITE PLAN - RAMP D
CITY OF CINCINNATI
4
12







NOTES:
1. BRIDGE SEAT REINFORCEMENT: Reinforcing steel in the vicinity of the bridge seat shall be accurately placed to avoid interference with the drilling of bearing anchor holes or the pre-setting of bearing anchors.
2. BEARING ANCHORS: At the option of the Contractor, bearing anchors (or formed holes), located and supported by templates, may be cast-in-place.
3. ◯ Denotes pile battered 1:4 in direction of arrow.

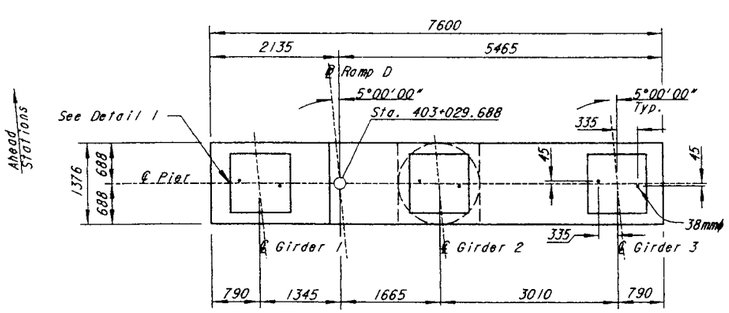
DESIGN AGENCY
BALKE ENGINEERS
1848 Summit Road
Cincinnati, Ohio 45237

DESIGNED	DRAWN	REVIEWED	DATE
MRS	ALH	CRS	11/24/99
CHECKED	REVISED	STRUCTURE FILE NUMBER	
FKL	—	3102246	

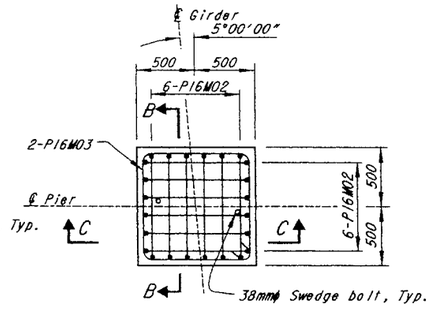
PIER 5D-1
BRIDGE NO. 5A
CLAY WADE BAILEY TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

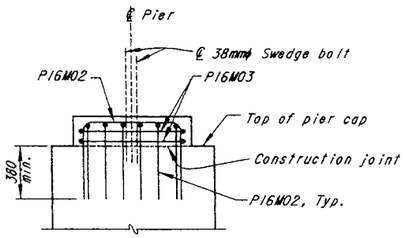
filename: 5D1pl.dgn



PLAN



PLAN
DETAIL 1
(3 required)



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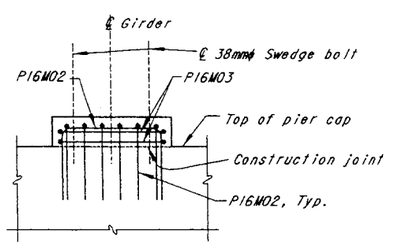
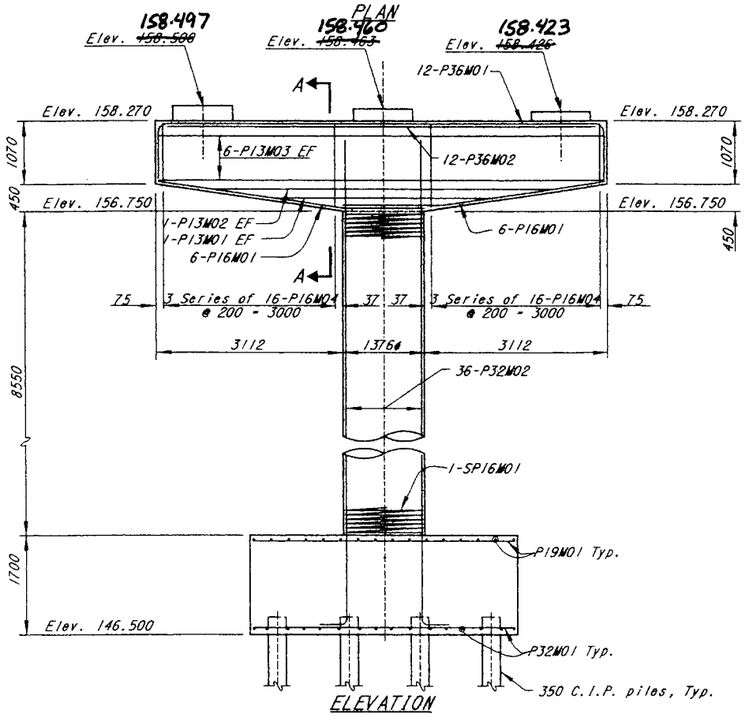
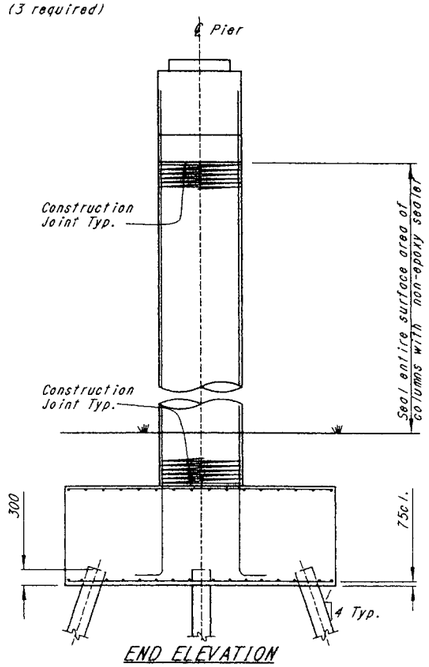


SECTION C-C



ELEVATION



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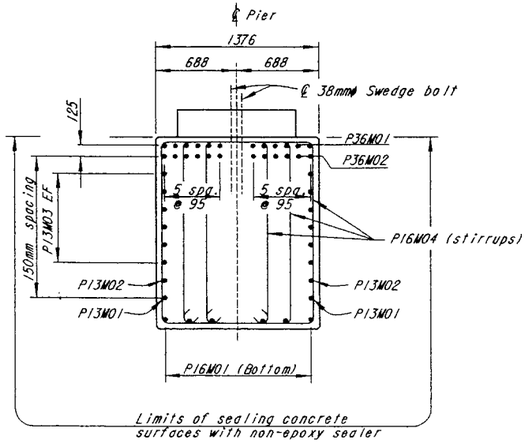
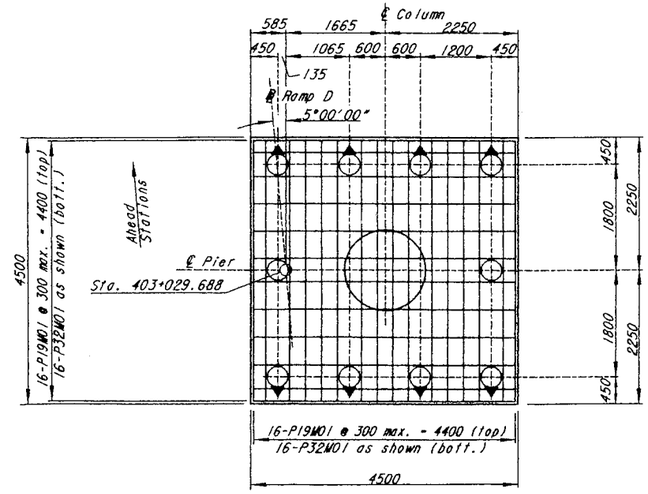
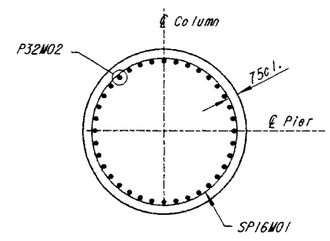


SECTION A-A



FOOTING PLAN



TYPICAL COLUMN SECTION

NOTES:
1. BRIDGE SEAT REINFORCEMENT: Reinforcing steel in the vicinity of the bridge seat shall be accurately placed to avoid interference with the drilling of bearing anchor holes or the pre-setting of bearing anchors.
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3. ◯ Denotes pile battered 1:4 in direction of arrow.

DESIGN AGENCY
BALKE ENGINEERS
1848 Summit Road
Cincinnati, Ohio 45237

DESIGNED	DRAWN	REVIEWED	DATE
MPS	ALH	CBS	11/24/99
CHECKED	REVISED	STRUCTURE FILE NUMBER	
FKL	—	3102246	

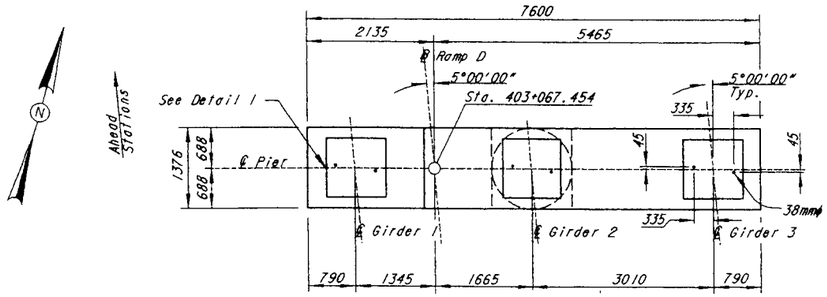
PIER 50-2
BRIDGE NO. 5A
CLAY WADE BAILEY TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

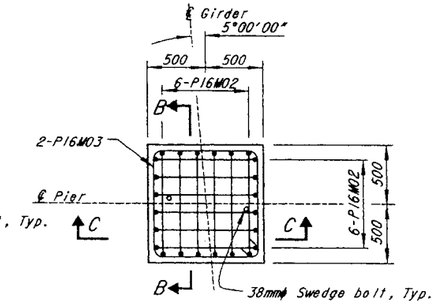
3 / 17

46
125

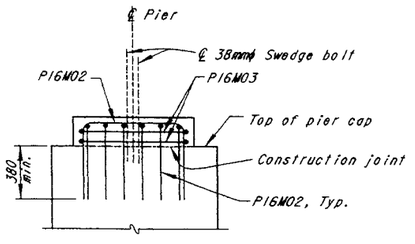
Filename: 89162.dgn



PLAN



PLAN
DETAIL 1
(3 required)



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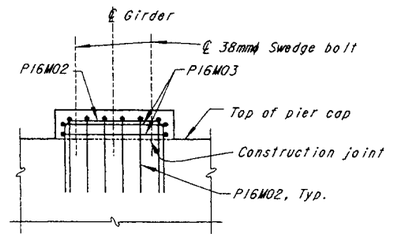
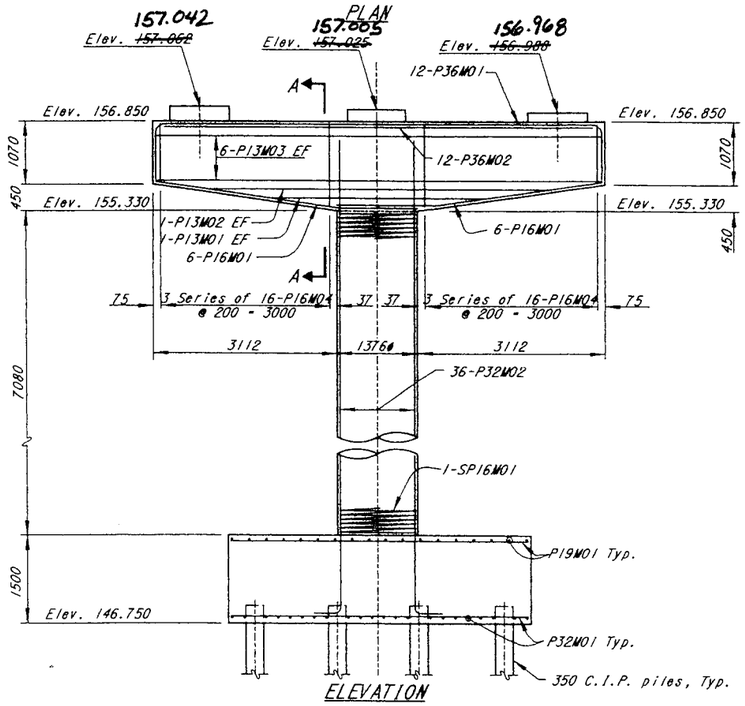
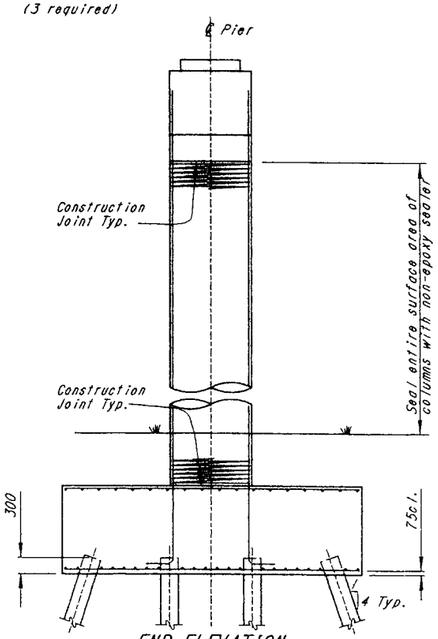


SECTION C-C



ELEVATION



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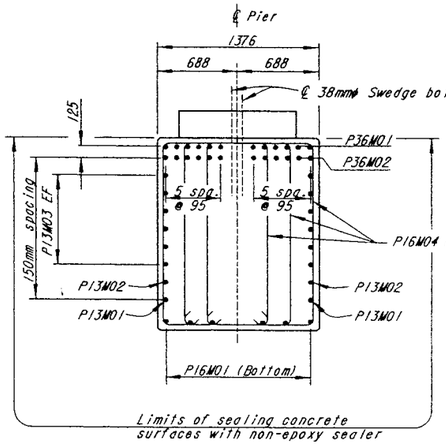
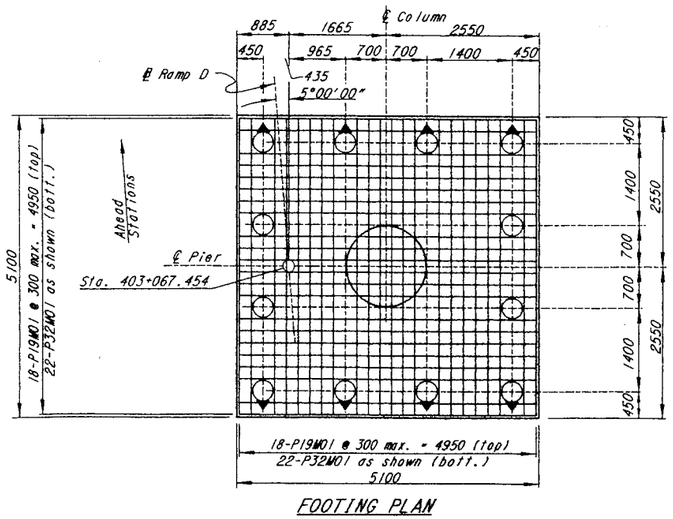
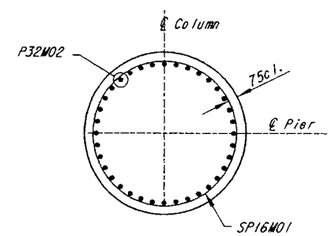


SECTION A-A



FOOTING PLAN



TYPICAL COLUMN SECTION

NOTES:
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DESIGN AGENCY
BALKE ENGINEERS
1848 Summit Road
Cincinnati, Ohio 45237

DESIGNED	DRAWN	REVIEWED	DATE
MPS	ALH	CRS	11/24/99
CHECKED	REVISED	STRUCTURE FILE NUMBER	
FKL	—	3102246	

PIER 5D-3
BRIDGE NO. 5A
CLAY WADE BAILEY TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

4 / 17

47 / 125

F:\drawings\5D3p5.dgn

PIER 5D-1 REINFORCING STEEL LIST

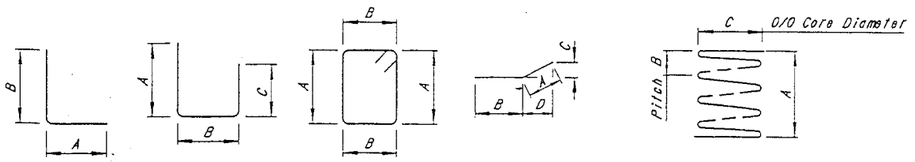
MARK	NUMBER	LENGTH	TYPE	DIMENSIONS A	B	C	D	E	INC.
P32W01	36	3835	1	550	3375				
P32W02	36	10 750	Str.						
P29W01	10	7020	2	950	5300	950			
P25W01	56	4900	Str.						
P19W01	36	4900	Str.						
P16W01	12	3480	17	2115	1365	440	1970		
P16W02	36	2005	2	610	865	610			
P16W03	6	3760	8	900	900				
	6	3940		995					
P16W04	Series of	to	8	to	895				85
	10	4720		1385					
SP16W01	1	9725	21	9725	75	1226			
P13W01	2	2800	Str.						
P13W02	2	4200	Str.						
P13W03	14	5300	Str.						

PIER 5D-2 REINFORCING STEEL LIST

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS A	B	C	D	E	INC.
P36W01	12	9220	2	950	7500	950			
P36W02	12	7400	Str.						
P32W01	32	4400	Str.						
P32W02	36	11760	1	550	11 300				
P19W01	32	4400	Str.						
P16W01	12	4470	17	3100	1370	445	3065		
P16W02	36	2005	2	610	865	610			
P16W03	6	3760	8	900	900				
	6	3880		965					
P16W04	Series of	to	8	to	895				60
	16	4780		1415					
SP16W01	1	8550	21	8550	75	1226			
P13W01	2	3720	Str.						
P13W02	2	5795	Str.						
P13W03	12	7450	Str.						

PIER 5D-3 REINFORCING STEEL LIST

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS A	B	C	D	E	INC.
P36W01	12	9220	2	950	7500	950			
P36W02	12	7400	Str.						
P32W01	44	5000	Str.						
P32W02	36	10 120	1	550	9660				
P19W01	36	5000	Str.						
P16W01	12	4470	17	3100	1370	445	3065		
P16W02	36	2005	2	610	865	610			
P16W03	6	3760	8	900	900				
	6	3880		965					
P16W04	Series of	to	8	to	895				60
	16	4780		1415					
SP16W01	1	7080	21	7080	75	1226			
P13W01	2	3720	Str.						
P13W02	2	5795	Str.						
P13W03	12	7450	Str.						



NOTES:

1. All dimensions are out to out of bar.
2. All reinforcing steel shall be epoxy coated.
3. SPIRAL REINFORCING BARS: The "length" shown in the steel list for the spiral bars is the length of the spiral along the axis of the spiral. One and one-half closed-coil turns shall be provided at the ends of each spiral unit.
4. SPACERS: Concrete spacers or other approved noncorrosive spacing devices shall be used at sufficient intervals (near the bottom and at intervals not exceeding 3050 mm) to insure concentric spacing for the entire cage length. Spacers shall be constructed of approved material equal in quality and durability to the concrete specified for the shaft. The spacers shall have adequate dimensions to ensure a minimum 75 mm clear space between the outside of the reinforcing cage and the design dimension of the drilled shaft or column. Cylindrical concrete feet (bottom supports) shall be provided to ensure that the bottom of the cage is maintained at the proper distance above the base.

Revision 2 P5D1 - 11/3/00

DESIGN AGENCY
BALKE ENGINEERS
1848 Summit Road
Cincinnati, Ohio 45237

DESIGNED	DRAWN	REVIEWED	DATE
ALH	ALH	CBS	11/24/99
CHECKED	REVISED	STRUCTURE FILE NUMBER	
FKL	----	3/022945	

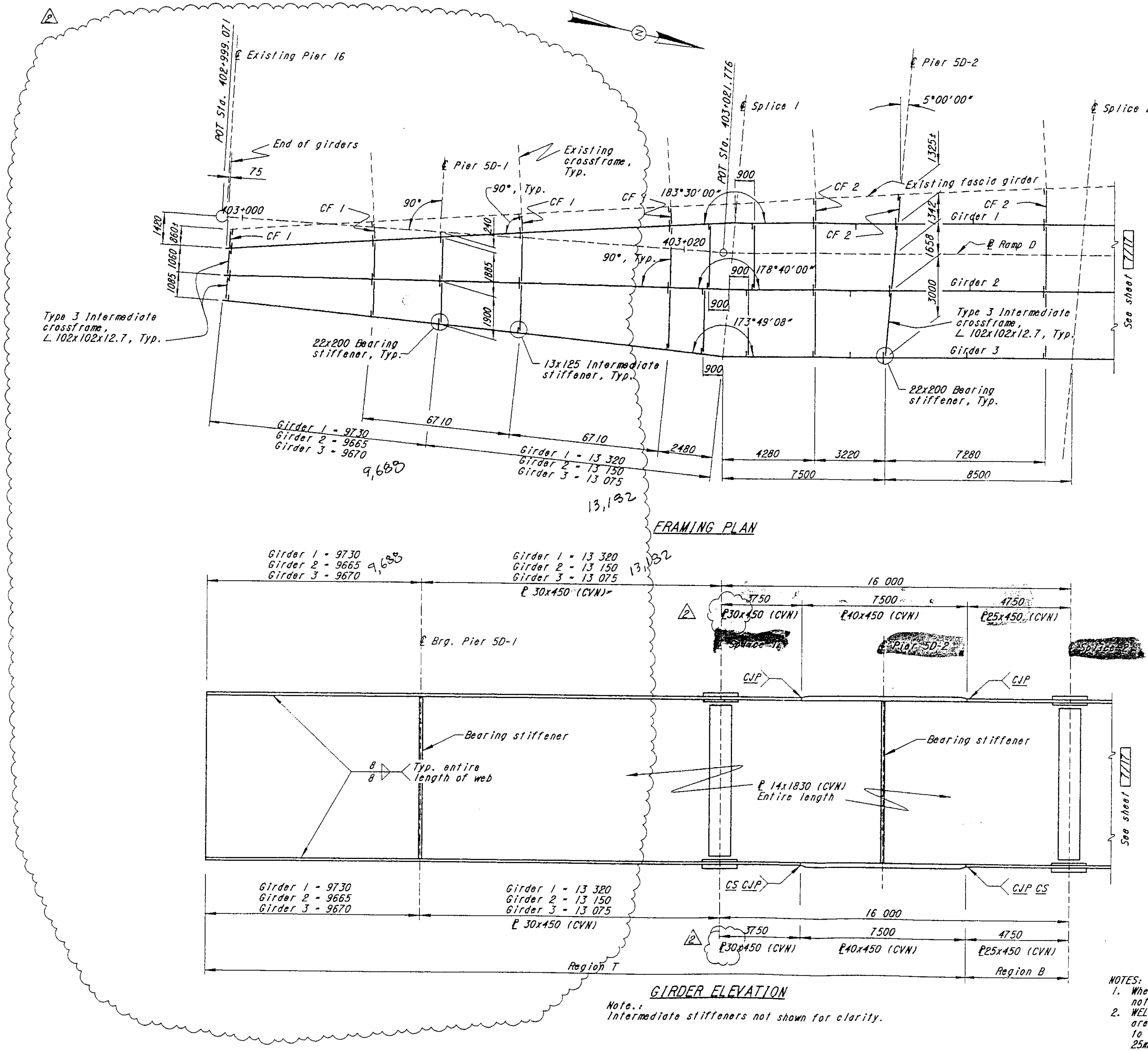
REINFORCING STEEL LIST PIERS
BRIDGE NO. 5A
CLAY WADE BAILEY TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75/5753

5/17

48/125

FILENAME: 5D1R01.DGN



Note: For details of crossframes CF-1 and CF-2, see sheet 8/17

3 36 3 36 6
9 | 16 | 16 | 16 | 16 | 16 | 8

NOTES:
1. Where a shape or plate is designated (CVN) the material shall meet specified minimum notch toughness requirements as specified in 711.01 of CMS.
2. WELDED ATTACHMENT of supports for concrete deck finishing machine may be made to areas of the fascia stringer flanges designated Region B. Attachments shall not be made to areas designated Region T. Fillet welds to compression flanges shall not be closer than 25mm from edge of flange, be not more than 50mm long and be not smaller than the minimum size required by AASHTO.
3. Region B - Bottom flange in tension; top flange in compression.
Region T - Top flange in tension; bottom flange in compression.
4. CS - Indicates butt weld subject to compressive stresses only.
CJP - Indicates complete joint penetration weld.
5. For splice and flange transition details, See sheet 9/17.
6. All butt welds shall have weld reinforcement removed by grinding in direction parallel to centerline of girder.
7. For crossframe, stiffener and additional details, see Std. Dwg. GSD-1-96M.

A Revision 2 P5DI 3/13/00

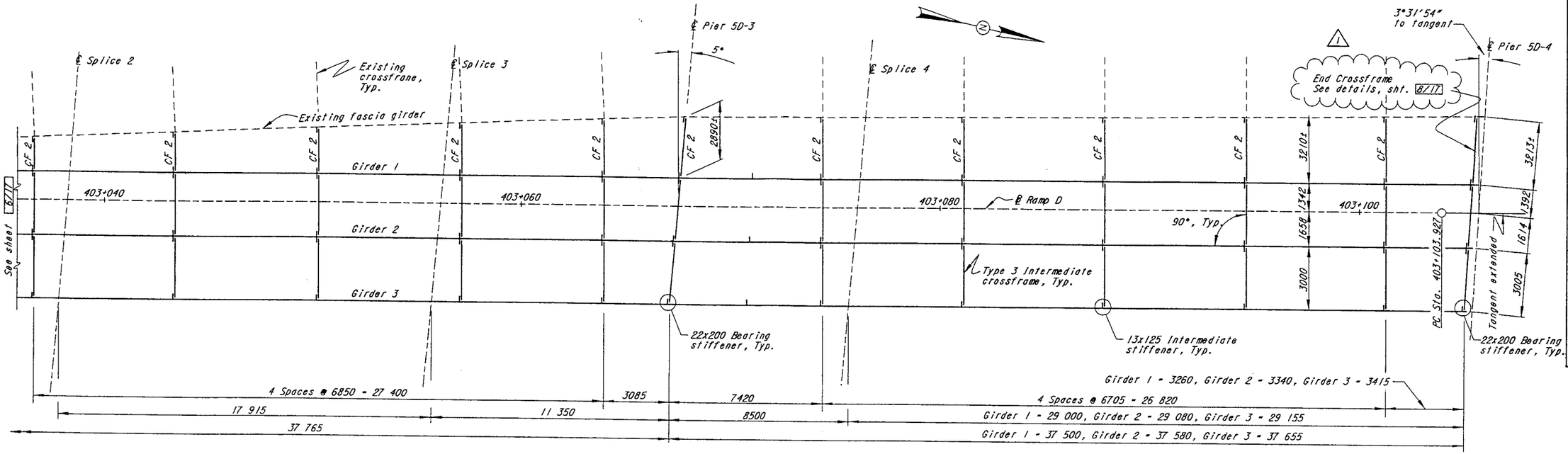
DESIGN AGENCY: BALKE ENGINEERS
DESIGNED: MRS | DRAWN: ALH | REVIEWED: CRS | DATE: 11/24/99

FRAMING PLAN & GIRDER ELEVATION
BRIDGE NO. 5A

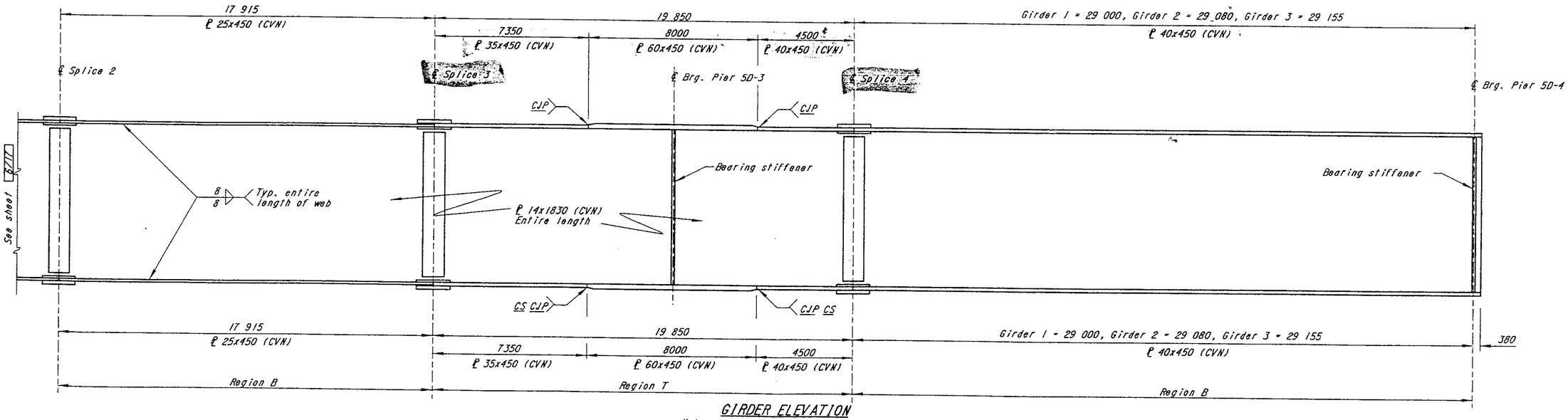
CITY OF CINCINNATI

6 /
49 / 12

Filename: 9918pl.dgn



FRAMING PLAN



GIRDER ELEVATION

Note.:
Intermediate stiffeners not shown for clarity.

Note:
1. For notes, see sheet 6/17.
2. For CF 2 details, see sheet 8/17.

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	Note added	12-22-99	MRS

DESIGN AGENCY
BALKE ENGINEERS
1848 Summit Road
Cincinnati, Ohio 45237

DESIGNED	DRAWN	REVIEWED	DATE
MRS	ALH	CRS	11/24/99
CHECKED	REVISED	STRUCTURE FILE NUMBER	
FAL	—	3102246	

FRAMING PLAN & GIRDER ELEVATION
BRIDGE NO. 5A
CLAY WADE BAILEY TO SECOND STREET

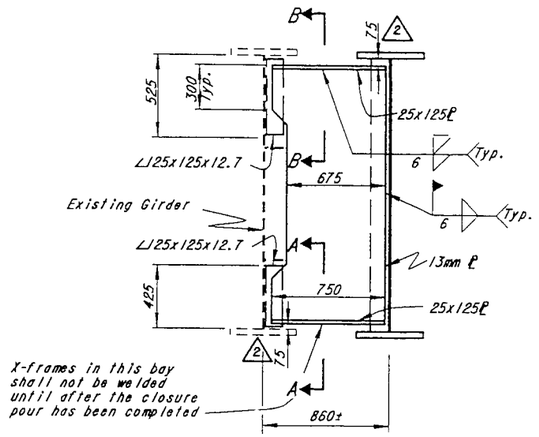
CITY OF CINCINNATI
CONTRACT NO. 75X5753

7/17

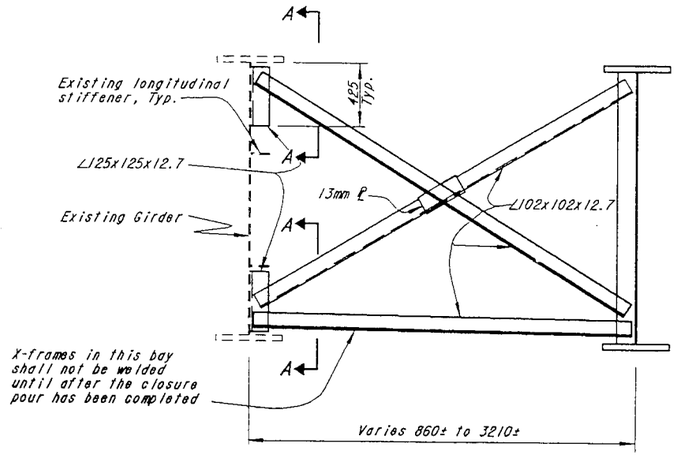
50/125

ADDENDUM NO. 1
DECEMBER 22, 1999

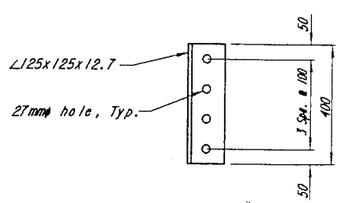
filename: 5018f02.dgn



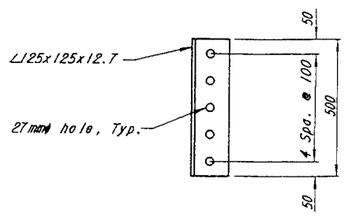
CF 1



CF 2
(For additional details, see Std. Dwg. GSD-1-96M)



SECTION A-A



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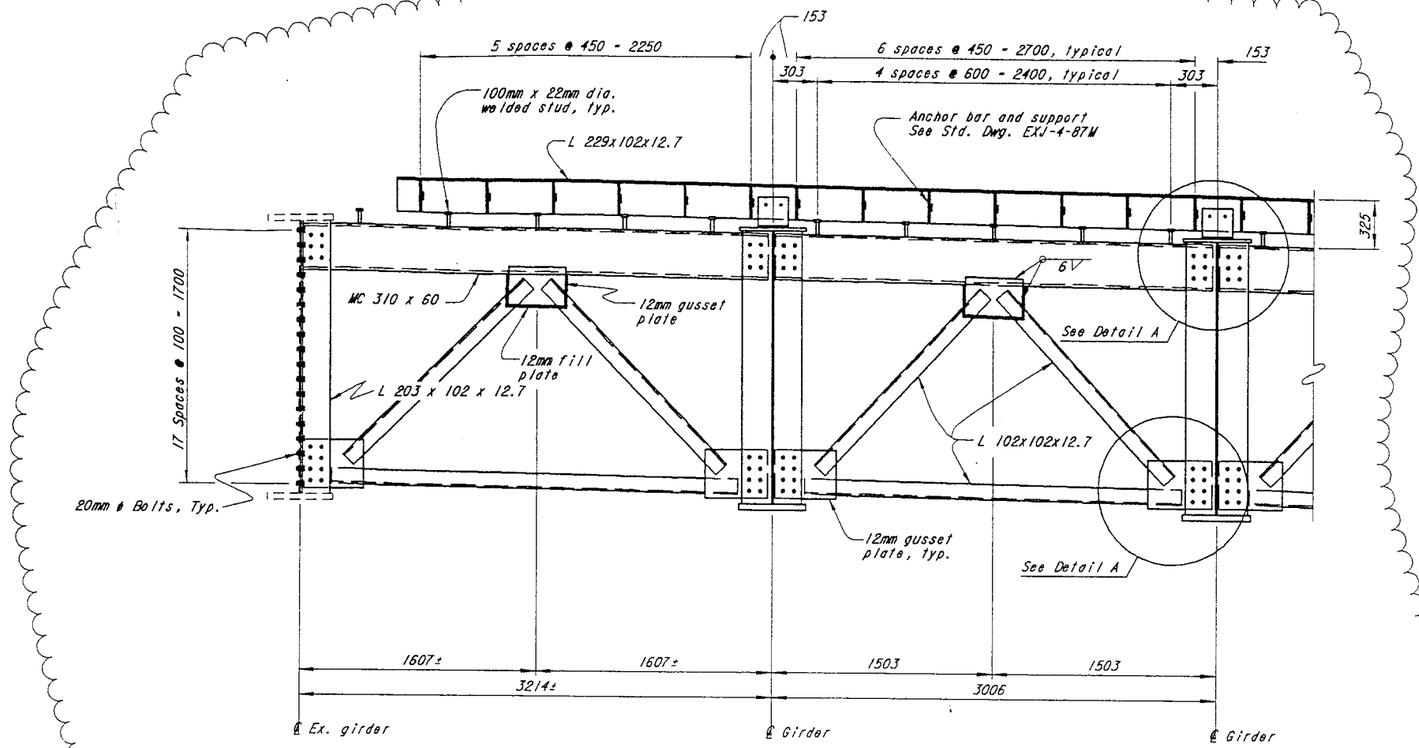
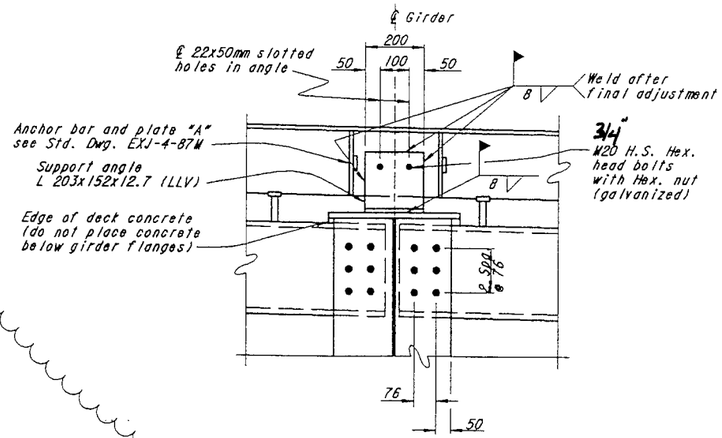
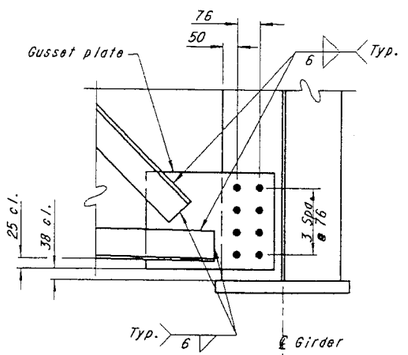


END CROSSFRAME
(Looking ahead station)



BOLT DETAIL "A"



BOLT DETAIL "B"
(Bottom gusset, from abut. side of joint)

REVISION NO.	DESCRIPTION	DATE	BY:
ADDENDUM 1	End Crossframe Details added	12-22-99	MRS

DESIGNED MRS | DRAWN ALH | REVIEWED CRS | DATE 11/24/99 | DESIGN AGENCY 1 — BALKE ENGINEERS

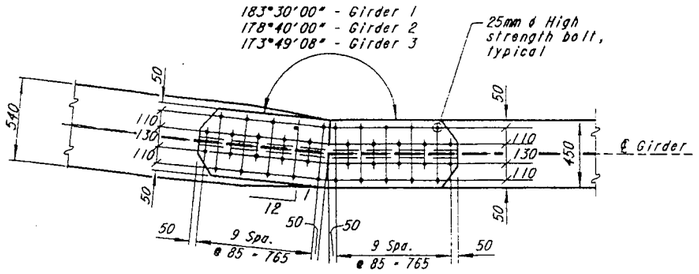
FRAMING PLAN

CITY OF CINCINNATI

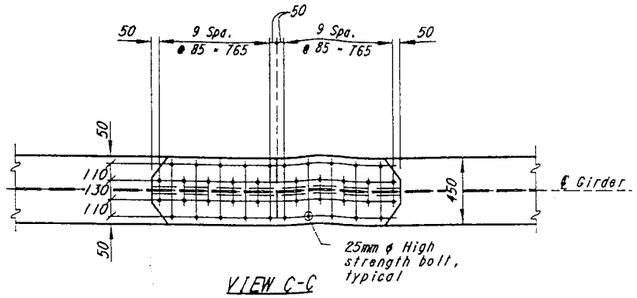
8 / 51 / 125

Revised PSDI 3/13/00

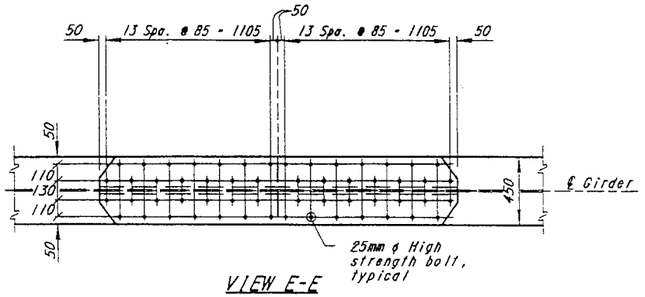
ADDENDUM NO. 1
DECEMBER 22, 1999



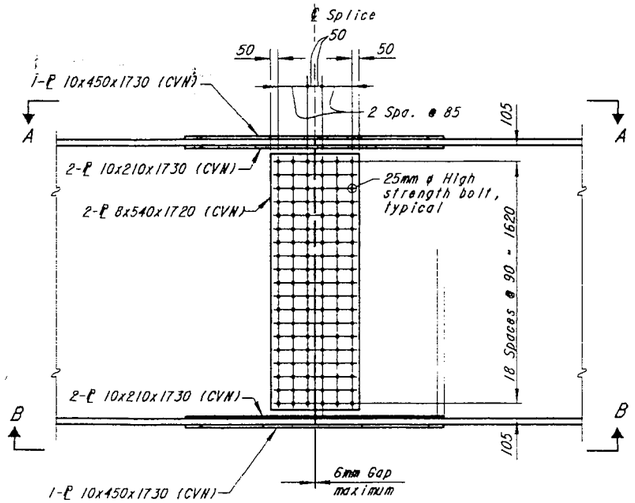
VIEW A-A



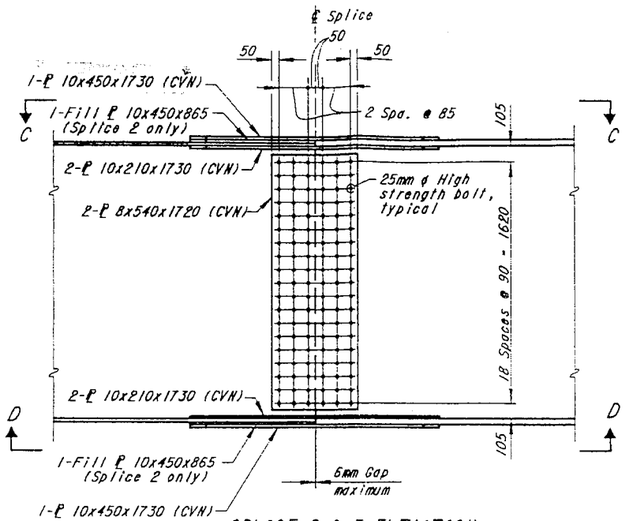
VIEW C-C



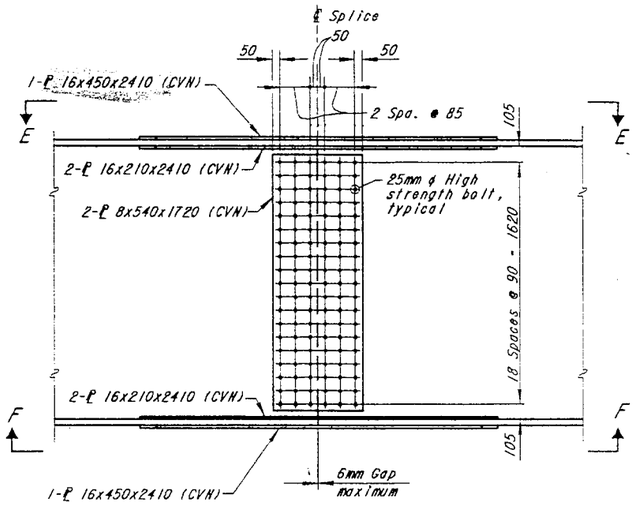
VIEW E-E



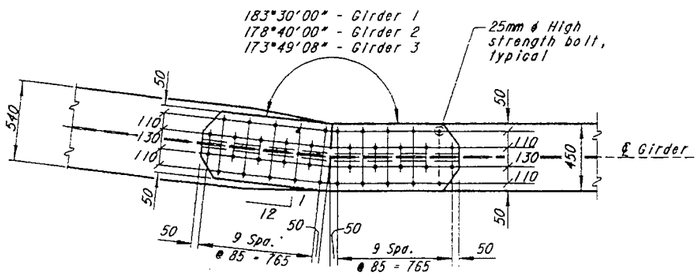
SPLICE 1 ELEVATION



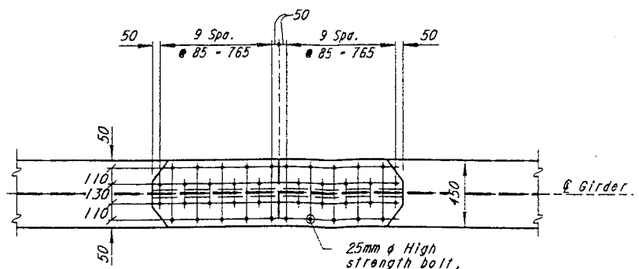
SPLICE 2 & 3 ELEVATION



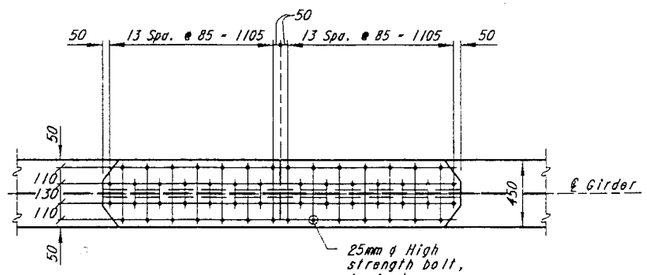
SPLICE 4 ELEVATION



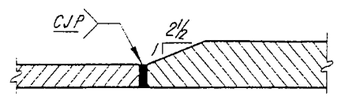
VIEW B-B



VIEW D-D



VIEW F-F



FLANGE THICKNESS TRANSITION DETAIL

SPLICE NOTES

1. Where a shape or plate is designated (CVN) the material shall meet specified minimum notch toughness requirements as specified in 711.01 of CMS.
2. High strength bolts shall be 25mm diameter, A325M galvanized.
3. In web splice plates, bolt heads shall be placed on the exposed side of the fascia girders. In bottom flange splice plates, nuts shall be placed on top surface of bottom flange splice plates.

DESIGN AGENCY
BALKE ENGINEERS
1848 Summit Road
Cincinnati, Ohio 45237

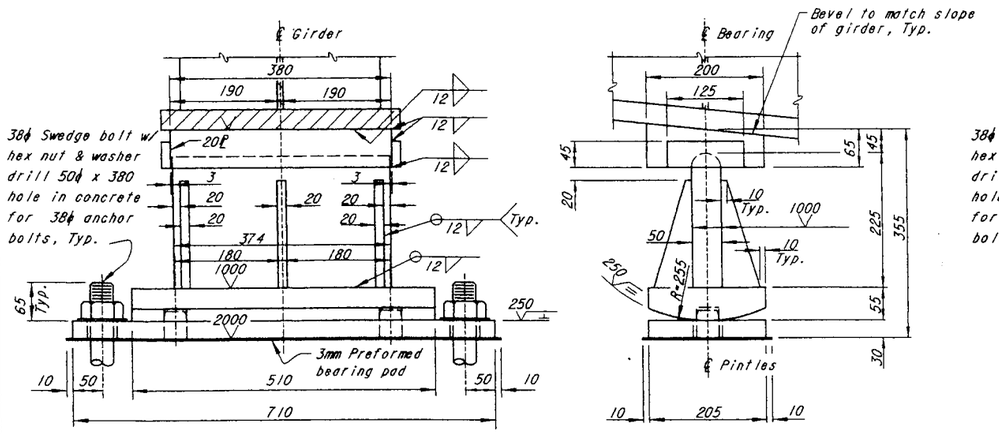
DESIGNED	DRAWN	REVIEWED	DATE
MRS	NJH	CRS	11/24/99
CHECKED	REVISED	STRUCTURE FILE NUMBER	
FKL		3102846	

GIRDER SPLICE DETAILS
BRIDGE NO. 5A
CLAY WADE BAILEY TO SECOND STREET

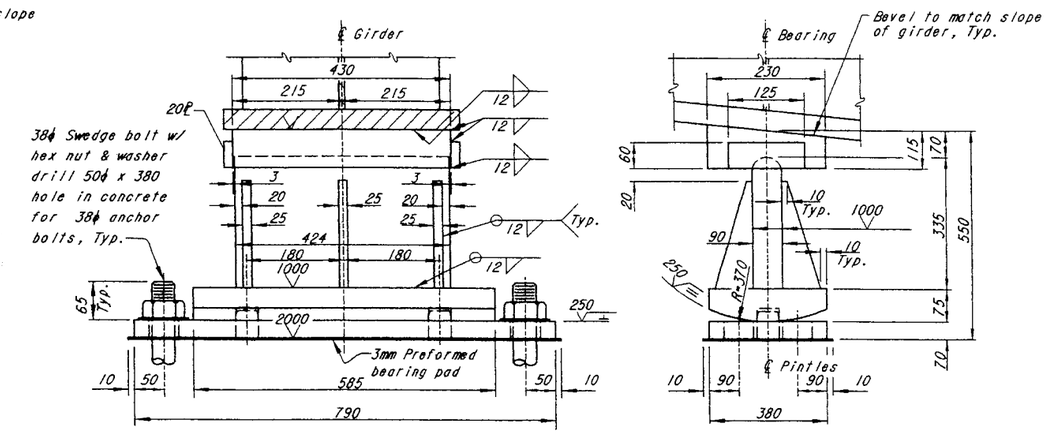
CITY OF CINCINNATI
CONTRACT NO. 75X5753

9 / 17

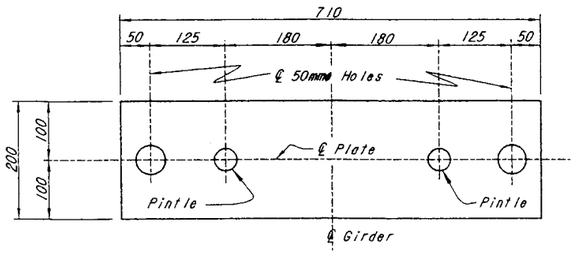
52 / 125



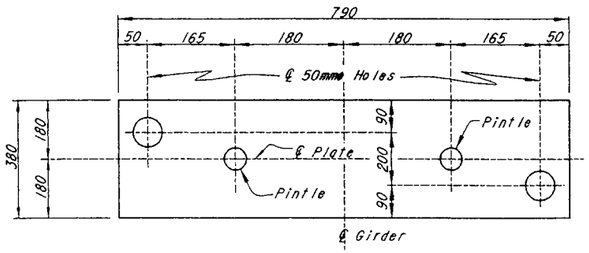
EXPANSION BEARING @ PIER 5D-1 & 5D-4



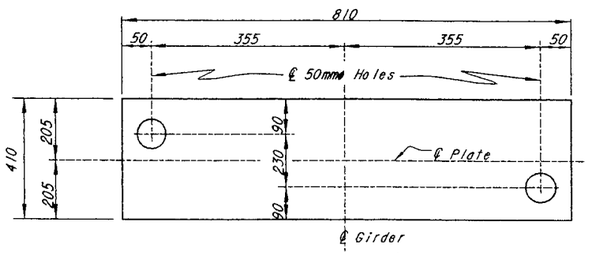
EXPANSION BEARING @ PIER 5D-2



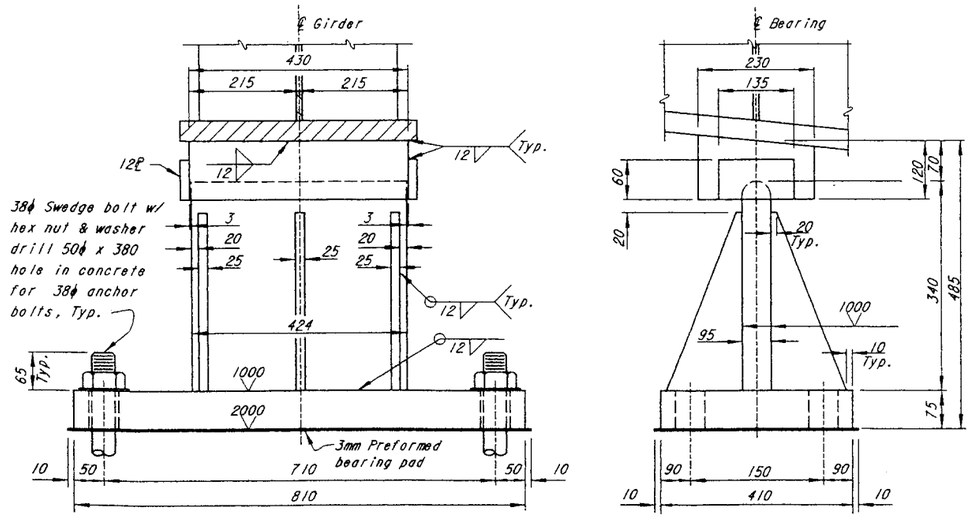
PLAN OF BOTTOM PLATE @ PIER 5D-1 & 5D-4



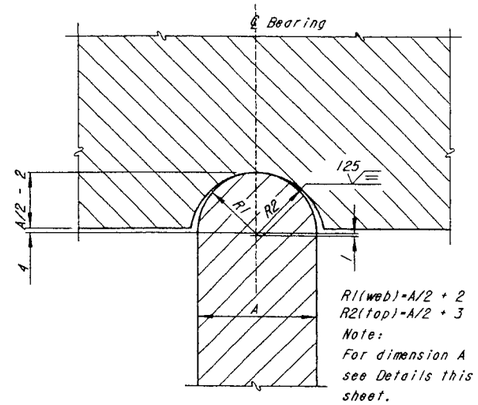
PLAN OF BOTTOM PLATE @ PIER 5D-2



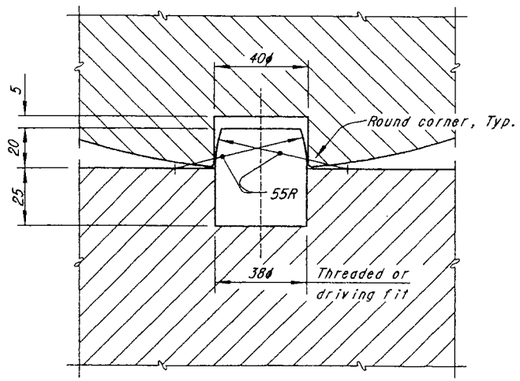
PLAN OF BOTTOM PLATE @ PIER 5D-3



FIXED BEARING @ PIER 5D-3



TOP BEARING DETAIL



PINTLE DETAIL

NOTES:
1. All steel is ASTM A709M Grade 345.

DESIGN AGENCY
BALKE ENGINEERS
1848 Summit Road
Cincinnati, Ohio 45237

DESIGNED	DRAWN	REVIEWED	DATE
MPS	ALH	CRS	11/24/99
CHECKED	REVISED	STRUCTURE FILE NUMBER	
FKL	—	3102246	

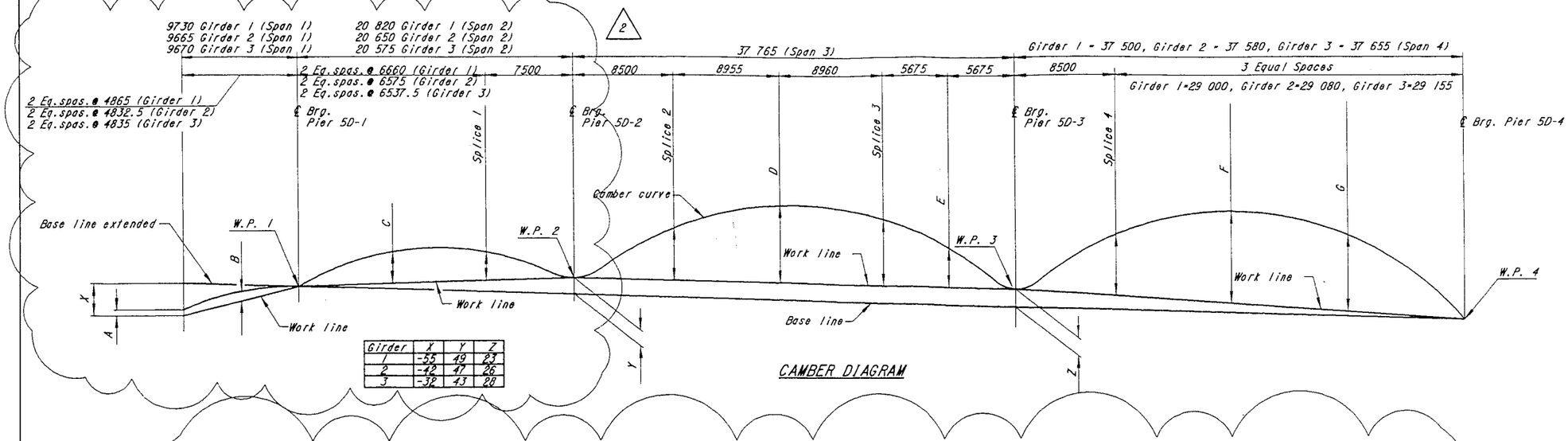
BEARING DETAILS
BRIDGE NO. 5A
CLAY WADE BAILEY TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

10 / 17

53 / 125

Filename: 99181.dgn



Girder	X	Y	Z
1	-55	19	23
2	-42	17	26
3	-32	13	28

CAMBER DIAGRAM

DEFLECTION AND CAMBER TABLE GIRDER 1

	SPAN 1			SPAN 2			SPAN 3					SPAN 4			
	A	B	PIER 5D-1	C	SPLICE 1	PIER 5D-2	SPLICE 2	D	SPLICE 3	E	PIER 5D-3	SPLICE 4	F	G	PIER 5D-4
Deflection due to weight of steel	2	1	0	0	0	0	2	3	1	0	0	4	8	7	0
Deflection due to remaining DL	6	3	0	-1	-2	0	14	20	11	2	0	14	31	27	0
Camber due to profile	0	0	0	20	35	0	25	15	14	12	0	19	26	17	0
Total camber	8	4	0	19	33	0	41	38	26	14	0	37	65	51	0

DEFLECTION AND CAMBER TABLE GIRDER 2

	SPAN 1			SPAN 2			SPAN 3								
	A	B	PIER 5D-1	C	SPLICE 1	PIER 5D-2	SPLICE 2	D	SPLICE 3	E	PIER 5D-3	SPLICE 4	F	G	PIER 5D-4
Deflection due to weight of steel	2	1	0	0	0	0	2	3	1	0	0	4	8	7	0
Deflection due to remaining DL	6	3	0	-1	-2	0	14	20	11	2	0	14	31	27	0
Camber due to profile	0	0	0	16	32	0	23	15	13	12	0	19	29	22	0
Total camber	~~8~~ -3	~~1~~ 21	0	~~15~~ 35	~~30~~ 42	0	~~35~~ 70	~~38~~ 54	~~25~~ 23	~~14~~ 13	0	~~37~~ 40	~~58~~ 70	56	0

DEFLECTION AND CAMBER TABLE GIRDER 3

	SPAN 1			SPAN 2			SPAN 3					SPAN 4			
	A	B	PIER 5D-1	C	SPLICE 1	PIER 5D-2	SPLICE 2	D	SPLICE 3	E	PIER 5D-3	SPLICE 4	F	G	PIER 5D-4
Deflection due to weight of steel	2	1	0	0	0	0	2	3	1	0	0	4	8	7	0
Deflection due to remaining DL	6	3	0	-1	-2	0	14	20	11	2	0	14	31	27	0
Camber due to profile	0	0	0	10	30	0	22	15	12	12	0	19	32	24	0
Total camber	8	4	0	9	28	0	38	38	24	14	0	37	71	58	0

NOTES FOR CAMBER AND DEFLECTION

1. Work points (W.P.) are at the center of the girder, on the centerline of bearing.
2. Work lines are straight lines through the work points.
3. The base line is a straight line through W.P. 1 and W.P. 4.
4. Tabulated values in the deflection and camber table are measured from the work lines.

Revision 2 Piers 5D-1 3/13/00

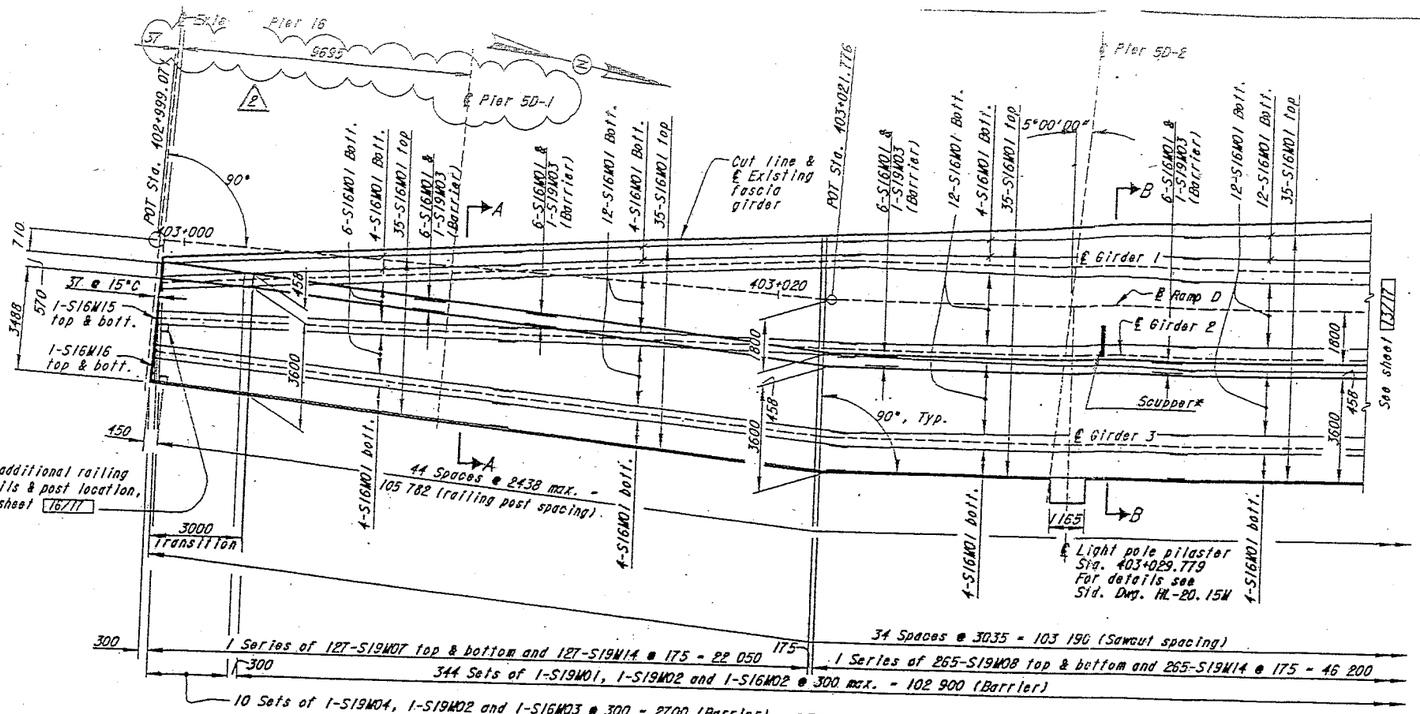
DESIGN AGENCY: BALKE ENGINEERS
DATE: 11/24/99
REVIEWED: CRS
DRAWN: ALH
DESIGNED: MRS

CAMBER DIAGRAM

CITY OF CINCINNATI

54
125

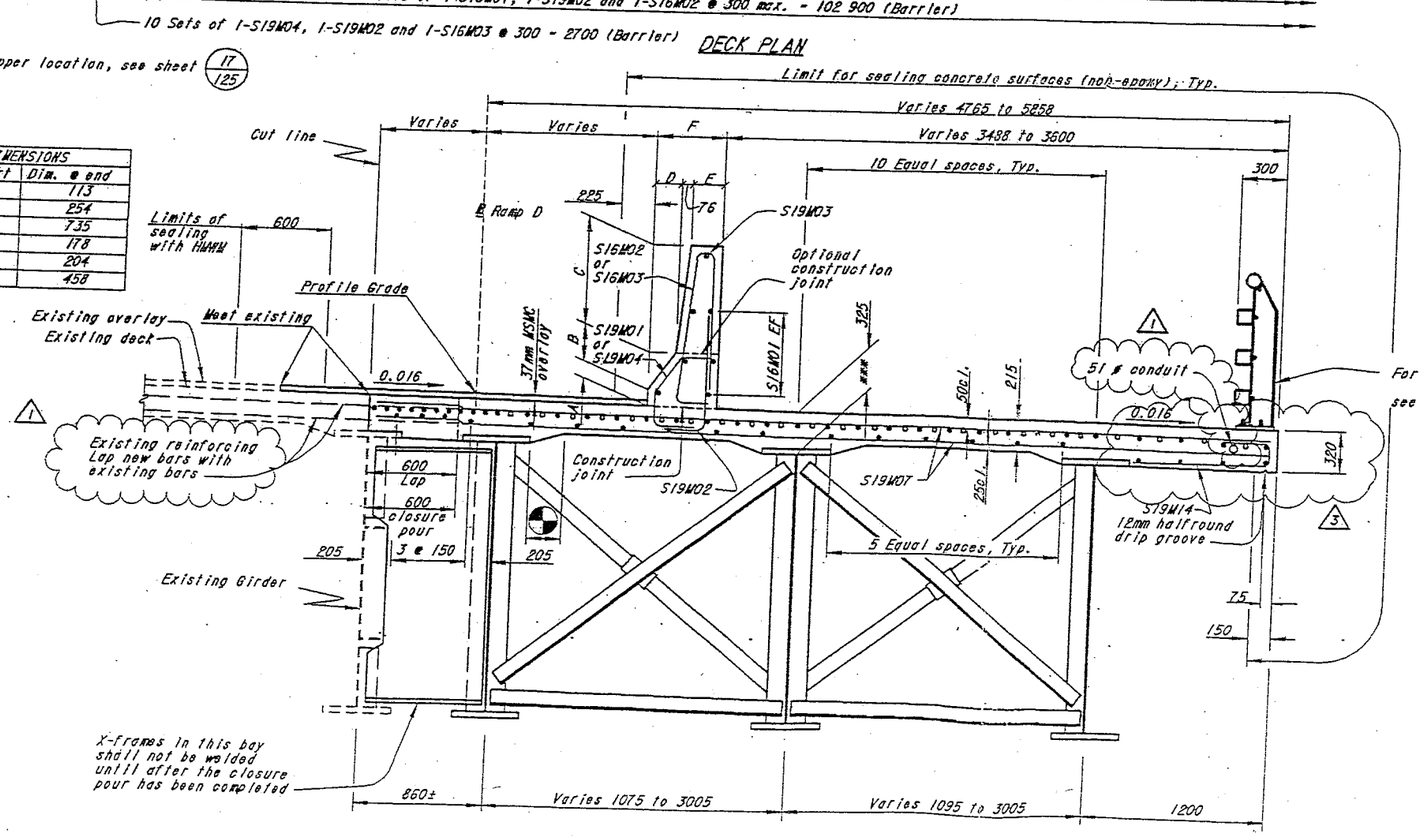
Filename: 99dcam.dgn



DECK PLAN

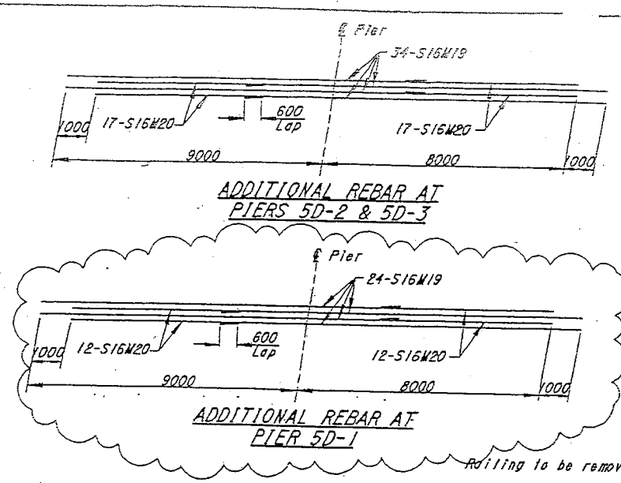
* For scupper location, see sheet 17/125

BARRIER DIMENSIONS		
	Dim. @ start	Dim. @ end
A	50	113
B	330	254
C	430	735
D	230	178
E	265	204
F	570	458



SECTION A-A

(Sta. 402+999.080 to Sta. 403+021.776)



REMOVAL LIMITS

Removal shall be to limits shown or as necessary to construct proposed structure.

NOTES:

1. ### DECK SLAB DEPTH: The distance shown from the top of the deck slab to the bottom of the top flange is the theoretical design dimension including the design haunch thickness of 110mm. The quantity of deck concrete to be paid for shall be based upon this dimension, even though deviation from it may be necessary because the top flange of the girder may not have the exact camber or conformation required to place it parallel to the finished grade. Deduction shall be made for volume of encased steel plates as per SS 842.

2. A HAUNCH WIDTH of 225mm shall be used for computing quantity of concrete. However the haunch width may vary between 150mm and 300mm.

3. EF = Each Face
   MSMC = Micro Silica modified concrete
   HMWM = High Molecular Weight Methacrylate

4. For additional details of the parapets and sawcuts, see Std. Dwg. BR-1M.

5. Lap lengths for all longitudinal parapet steel are 450mm.

6. For Section B-B, see sheet 13/17 .

REVISION NO.	DESCRIPTION	DATE	BY
1	Note & conduit added	12-22-99	MRR
3	Modified deck	3-17-2000	MRR

DESIGN READY

BALKE ENGINEERS
1848 Summit Road
Cincinnati, Ohio 45237

DESIGNED AMS
DRAWN KLH
CHECKED FHL
REVIEWED CHS
DATE 11/24/99
STRUCTURE FILE NUMBER 3102346

DECK PLAN & SECTION
BRIDGE NO. 5A
CLAY WADE BAILEY TO SECOND STREET

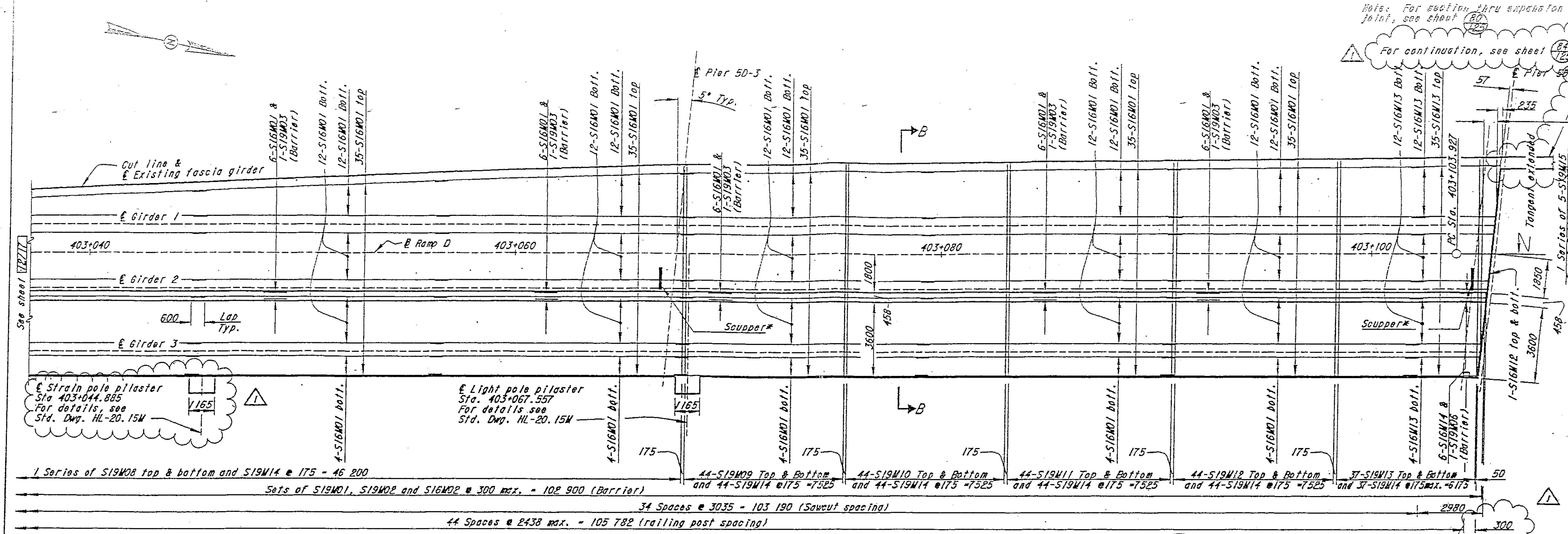
CITY OF CINCINNATI
CONTRACT NO. 75X5753

12/17

55/125

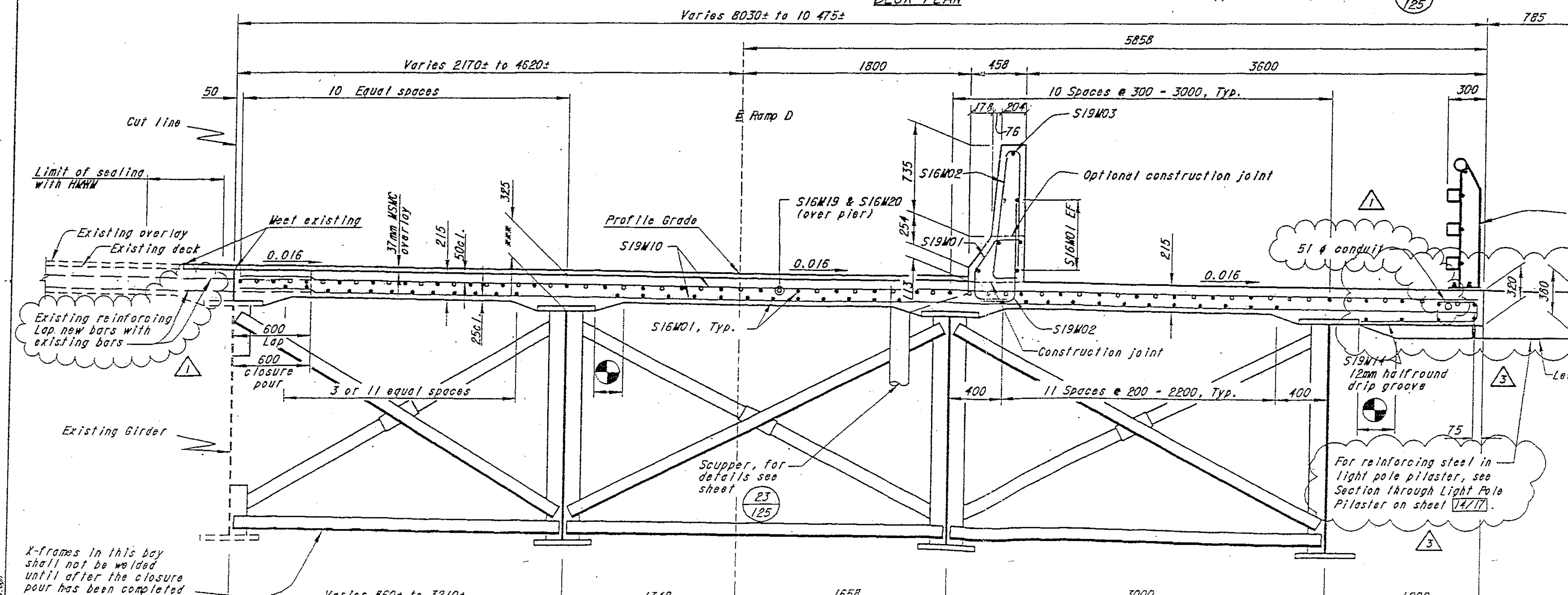
REVISION NO. 3
MARCH 17, 2000

Filename: 09DA05.dgn



DECK PLAN

* For scupper location, see sheet 17/125



SECTION B-B

(Sta. 403+021.776 to Sta. 403+105.500)

NOTES:

1. *** DECK SLAB DEPTH: The distance shown from the top of the deck slab to the bottom of the top flange is the theoretical design dimension including the design haunch thickness of 110mm. The quantity of deck concrete to be paid for shall be based upon this dimension, even though deviation from it may be necessary because the top flange of the girder may not have the exact camber or conformation required to place it parallel to the finished grade. Deduction shall be made for volume of encased steel plates as per SS 842.

2. A HAUNCH WIDTH of 225mm shall be used for computing quantity of concrete. However the haunch width may vary between 150mm and 300mm.

3. EF - Each Face
MSMC - Micro Silica modified concrete
HMWM - High Molecular Weight Methacrylate

4. For additional details of the parapets and sawcuts, see Std. Dwg. BR-1M.

5. Lap lengths for all longitudinal parapet steel are 450mm.

REVISION NO.	DESCRIPTION	DATE	BY
1	Miscellaneous revisions	12-22-99	MRS
3	Modified deck	3-17-2000	MRS

DESIGN AGENCY: BALKE ENGINEERS, 1848 Summit Road, Cincinnati, Ohio 45237

DESIGNED: MPS | DRAWN: ALH | REVIEWED: CRS | DATE: 11/24/99
CHECKED: FAL | REVISED: | STRUCTURE FILE NUMBER: 3102946

DECK PLAN & SECTION
BRIDGE NO. 5A
CLAY WADE BAILEY TO SECOND STREET

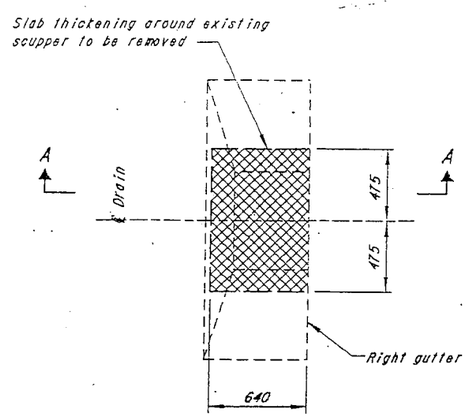
CITY OF CINCINNATI
CONTRACT NO. 75X5753

13/17

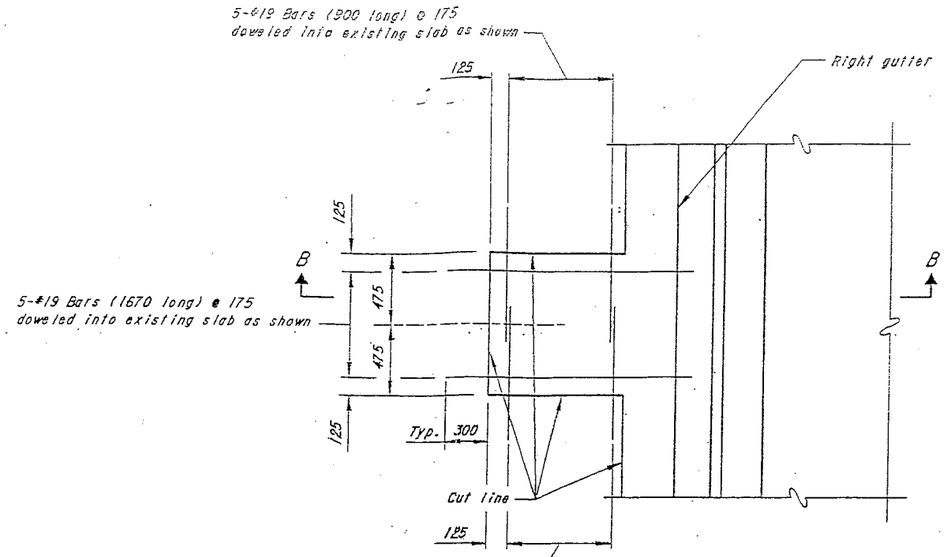
REVISION NO. 3
MARCH 17, 2000

56/125

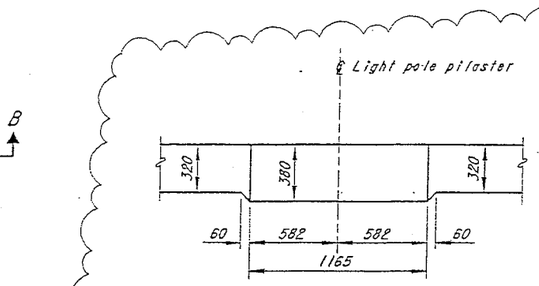
Filename: 9918ds1.dgn



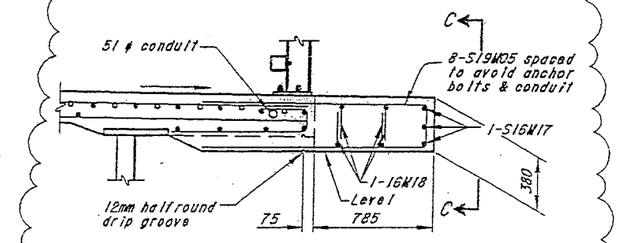
PLAN (REMOVAL) (3 Locations) 1



PLAN (PROPOSED) (3 Locations) 1

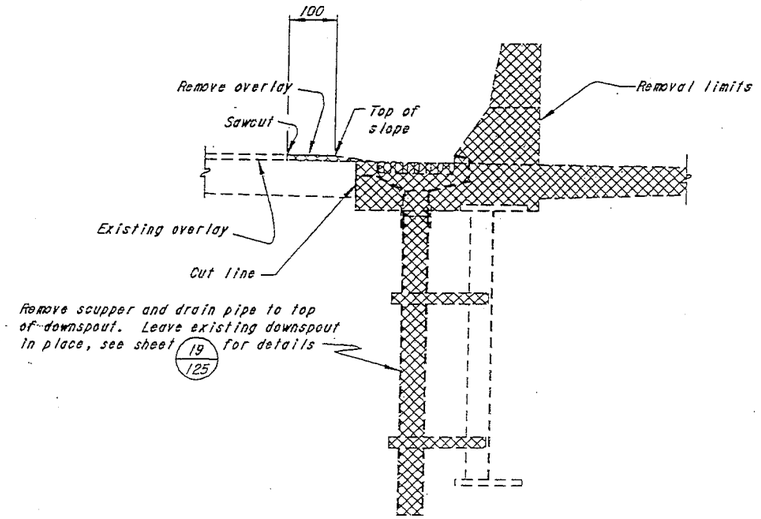


VIEW C-C

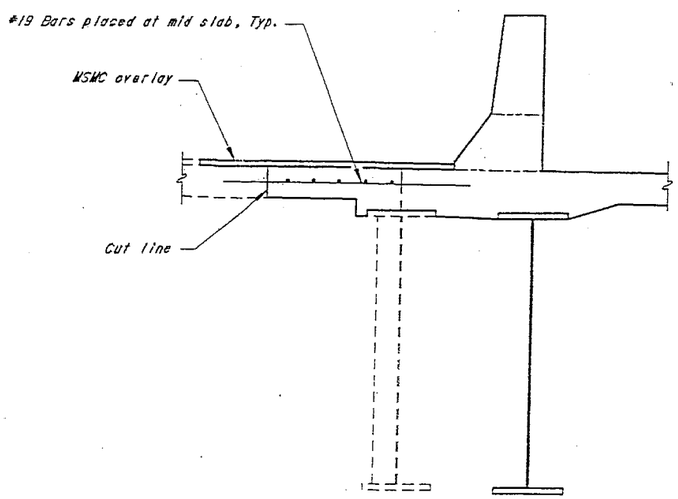


SECTION THROUGH LIGHT POLE PILASTER (2 Required)

3



SECTION A-A



SECTION B-B

NOTES:
1. MSMC - Micro Silica Modified Concrete

SCUPPER REMOVAL AND SLAB MODIFICATION DETAILS

REVISION NO.	DESCRIPTION	DATE
1	Holes added	12-22-99
3	Modified deck	3-17-2000

DESIGN AGENCY
BALKE ENGINEERS
1848 Summit Road
Cincinnati, Ohio 45237

DESIGNED MKS
DRAWN XLH
CHECKED FAL
REVISED
REVIEWED CHS
DATE 11/24/99
STRUCTURE FILE NUMBER 3102946

DECK DETAILS
BRIDGE NO. 5A
CLAY WADE BAILEY TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

14/17

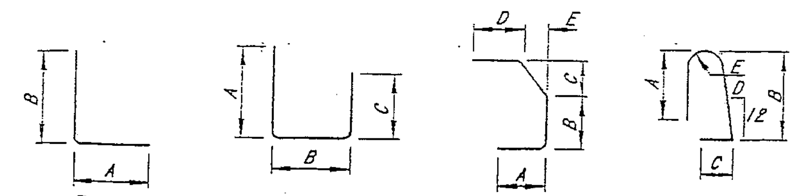
57/125

REVISION NO. 3
MARCH 17, 2000

Filename: 25163.dgn

SLAB REINFORCING STEEL LIST

MARK	NUMBER	LENGTH	TYPE	DIMENSIONS A	B	C	D	E	INC.
S19W01	344	925	3	265	215	260	230	150	
S19W02	354	985	1	280	755				
S19W03	9	12 000	Str.						
	1	1010			150	335	290	205	
S19W04	Series of	to	3	265	to	to	to	to	10
	10	825			215	260	230	150	
S19W05	16	3105	2	1450	305	1450			
S19W06	1	3450	Str.						
	2	4150							
S19W07	Series of	to	Str.						29
	127	7805							
	2	7829							
S19W08	Series of	to	Str.						8
	265	9941							
S19W09	88	9990	Str.						
S19W10	88	10040	Str.						
S19W11	88	10085	Str.						
S19W12	88	10145	Str.						
S19W13	74	10230	Str.						
S19W14	605	1905	2	900	245	800			
	2	2035							
S19W15	Series of	to	Str.						1700
	5	8835							
S16W01	693	12 000	Str.						
S16W02	344	2210	26	955	1030	205	1¼	38	
	1	2210		955	1030				
S16W03	Series of	to	26	to	to	205	1¼	38	55
	10	1715		720	775				
S16W04	NOT	USED							
S16W05	NOT	USED							
S16W06	NOT	USED							
S16W07	NOT	USED							
S16W08	NOT	USED							
S16W09	NOT	USED							
S16W10	NOT	USED							
S16W11	NOT	USED							
S16W12	2	10 375	Str.						
S16W13	75	3710	Str.						
S16W14	6	3450	Str.						
S16W15	2	4160	Str.						
S16W16	2	1620	Str.						
S16W17	6	3620	2	1335	1030	1335			
S16W18	8	1485	2	250	1065	250			
S16W19	92	12 000	Str.						
S16W20	92	6600	Str.						



Type 1 Type 2 Type 3 Type 26

NOTES:

1. All dimensions are out to out of bar.
2. All reinforcing steel shall be epoxy coated.

REVISION NO.	DESCRIPTION	DATE	BY
3	Modified reinforcing steel	3-17-2000	MRS

DESIGNED ALH · DRAWN ALH · REVIEWED CRS · DATE 11/24/99 · CHECKED FRL · REVISED — · STRUCTURE FILE NUMBER 3102946

DESIGN AGENCY: BALKE ENGINEERS, 1848 Summit Road, Cincinnati, Ohio 45237

REINFORCING STEEL LIST SUPERSTRUCTURE

BRIDGE NO. 5A

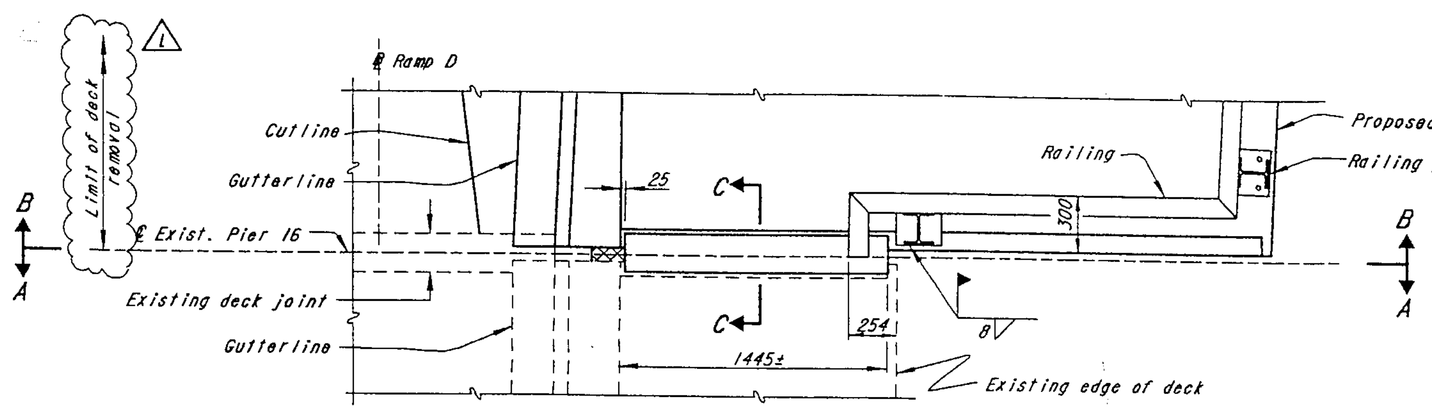
CLAY WADE BAILEY TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

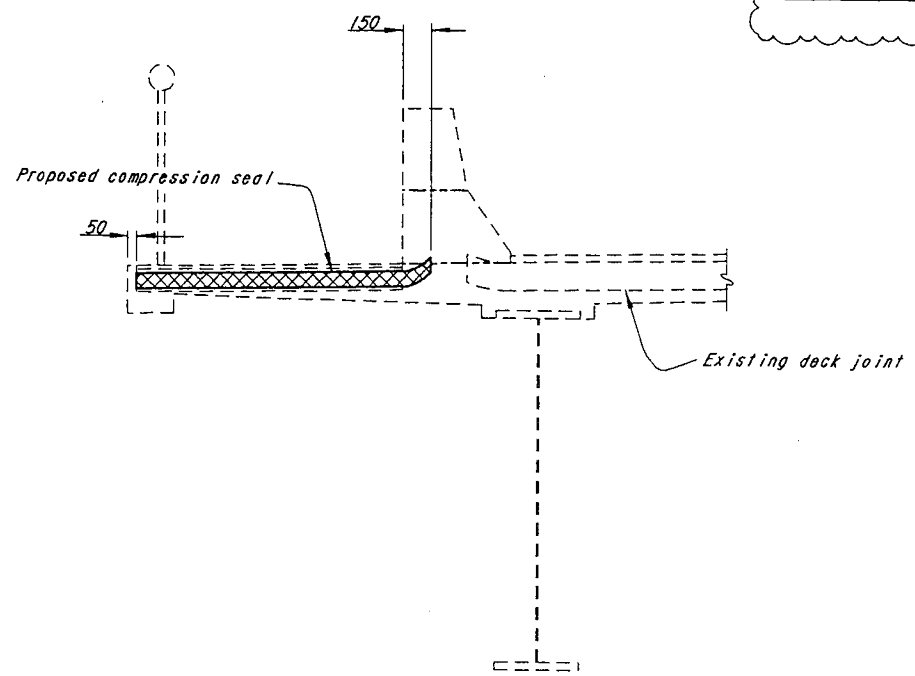
15/17

58/125

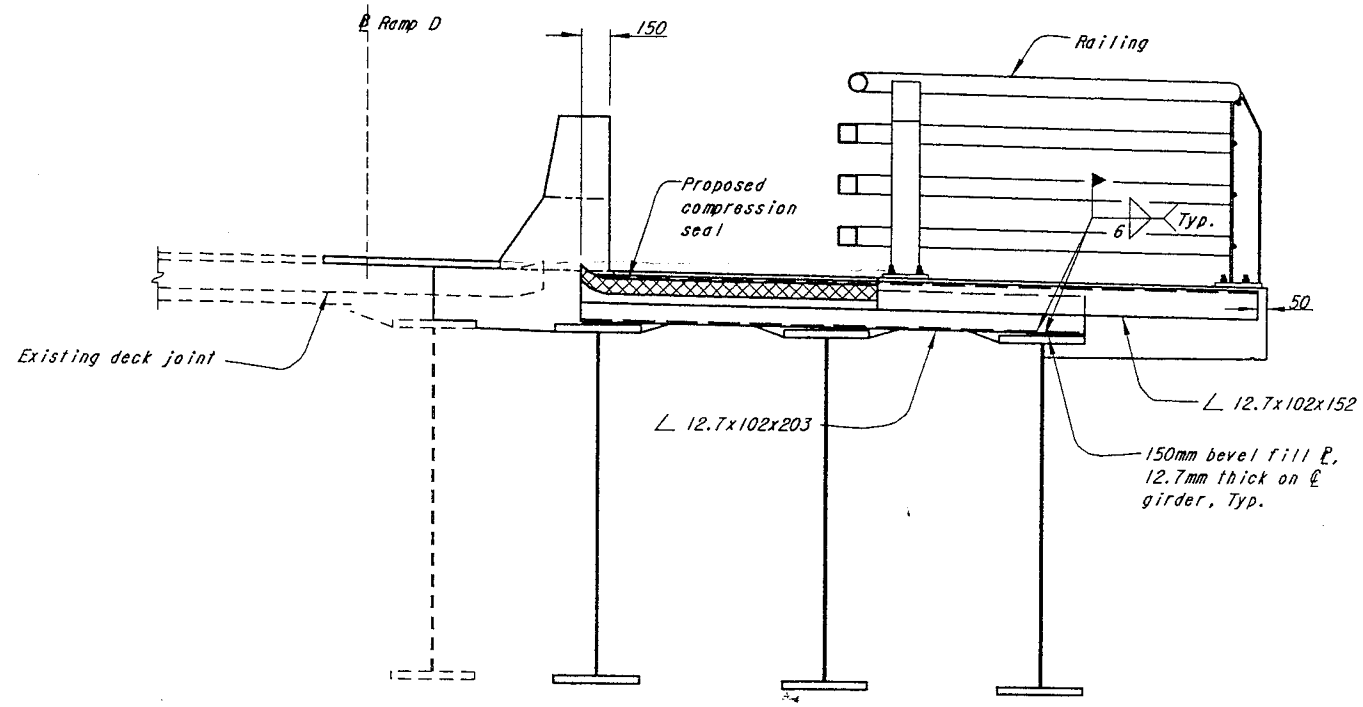
REVISION NO. 3
MARCH 17, 2000



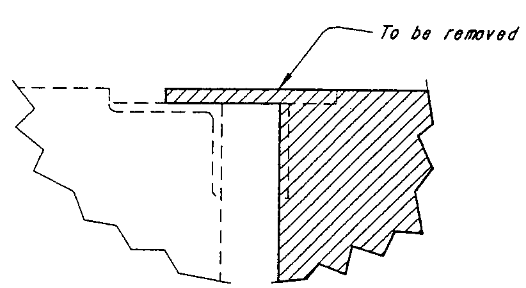
PLAN @ EXISTING PIER 16



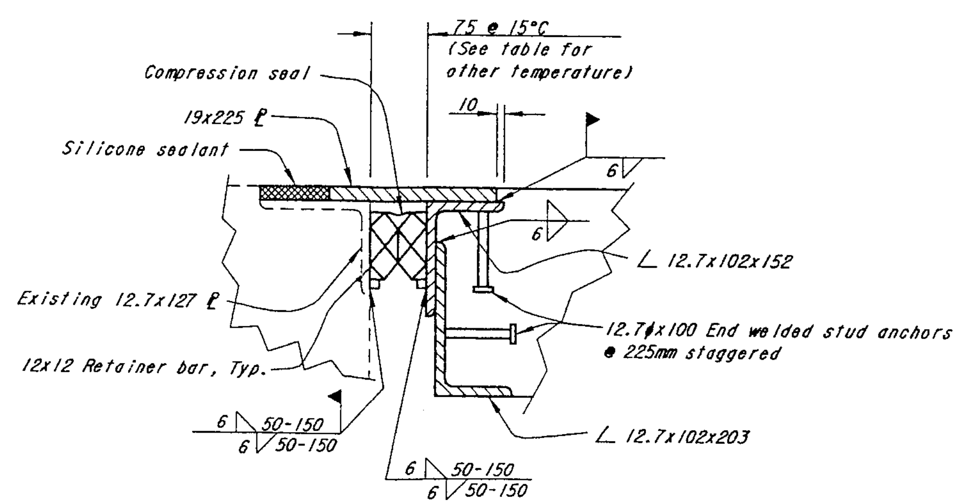
SECTION A-A



SECTION B-B



SECTION C-C (EXISTING)



SECTION C-C (PROPOSED)

TABLE A	
C°	Joint opening (mm)
25	65
20	70
15	75
10	80
5	85
0	90

NOTES:
1. Compression seal shall be D.S. Brown K-4000, Watson-Bowman Acme WE-500, or approved equal.
2. For additional notes, see sheet 3/3 of Std. Dwg. EXJ-2-81M.

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	Notes added	12-22-99	MRS

DESIGNED MRS | DRAWN ALH | REVIEWED CRS | DATE 11/24/99
CHECKED FKL | REVISED — | STRUCTURE FILE NUMBER 3102246

DESIGN AGENCY: BALKE ENGINEERS, 1848 Summit Road, Cincinnati, Ohio 45237

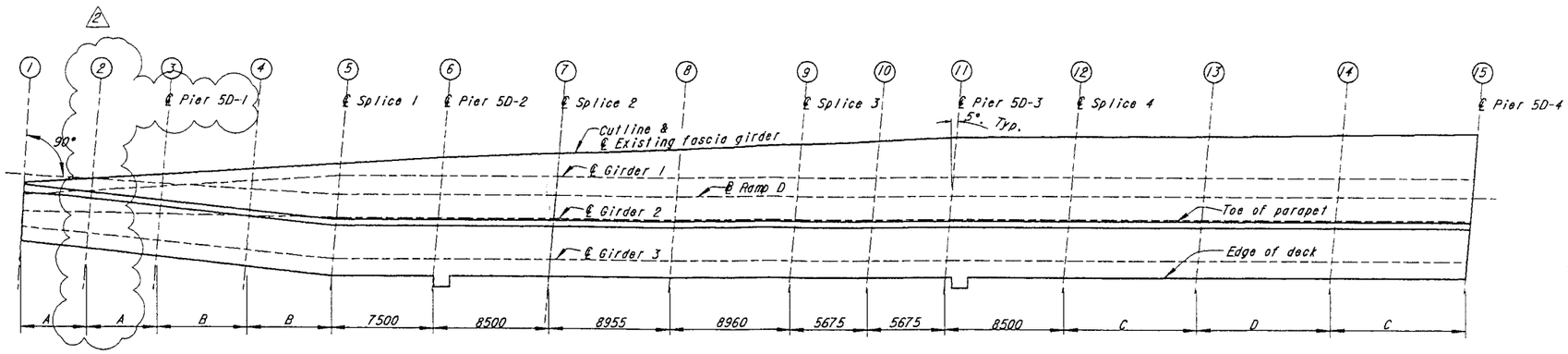
EXPANSION JOINT DETAILS
BRIDGE NO. 5A
CLAY WADE BAILEY TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

16/17

ADDENDUM NO. 1
DECEMBER 22, 1999

Filename: 9918e11.dgn

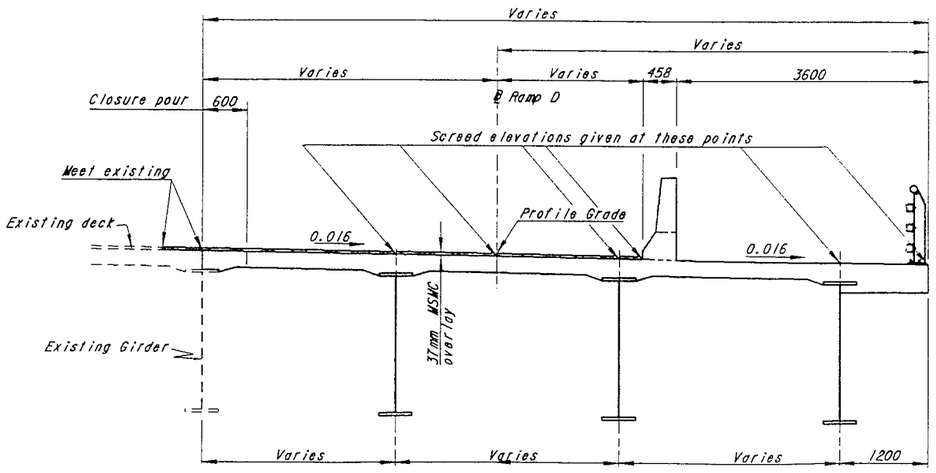


PLAN

GIRDER	A	B	C	D
1	4865	6660	9665	9670
3	4835	6540	9720	9715

SCREED ELEVATIONS

Location	Girder 1	Girder 2	Girder 3	℄ Ramp D	T.O.P.	E.O.D.
Grid line 1	162.326	162.309	162.291	162.350	162.338	162.273
Grid line 2	162.163	162.139	162.115	162.176	162.161	162.096
Grid line 3	162.000	161.969	161.939	162.003	161.985	161.920
Grid line 4	161.779	161.742	161.704	161.771	161.748	161.685
Grid line 5	161.553	161.515	161.478	161.536	161.514	161.459
Grid line 6	161.245	161.208	161.171	161.229	161.207	161.156
Grid line 7	160.946	160.907	160.869	160.929	160.906	160.854
Grid line 8	160.587	160.550	160.513	160.571	160.548	160.498
Grid line 9	160.221	160.183	160.145	160.204	160.181	160.130
Grid line 10	159.984	159.947	159.910	159.968	159.945	159.895
Grid line 11	159.745	159.708	159.671	159.728	159.706	159.656
Grid line 12	159.440	159.402	159.363	159.423	159.400	159.347
Grid line 13	159.082	159.044	159.006	159.065	159.042	158.990
Grid line 14	158.685	158.646	158.606	158.667	158.644	158.589
Grid line 15	158.257	158.211	158.166	158.236	158.208	158.148



TYPICAL SECTION

NOTES:
SCREED ELEVATIONS shown are for the deck slab surface prior to concrete placement. Allowance has been made for anticipated calculated dead load deflections.

Screed elevations are given at top of deck prior to placing 37mm MSMC overlay.

T.O.P. = Toe Of Parapet
E.O.D. = Edge Of Deck
MSMC = Micro Silica Modified Concrete

DESIGN AGENCY
DATE
REVIEWED
DRAWN
DESIGNED

SCREED ELEVATIONS

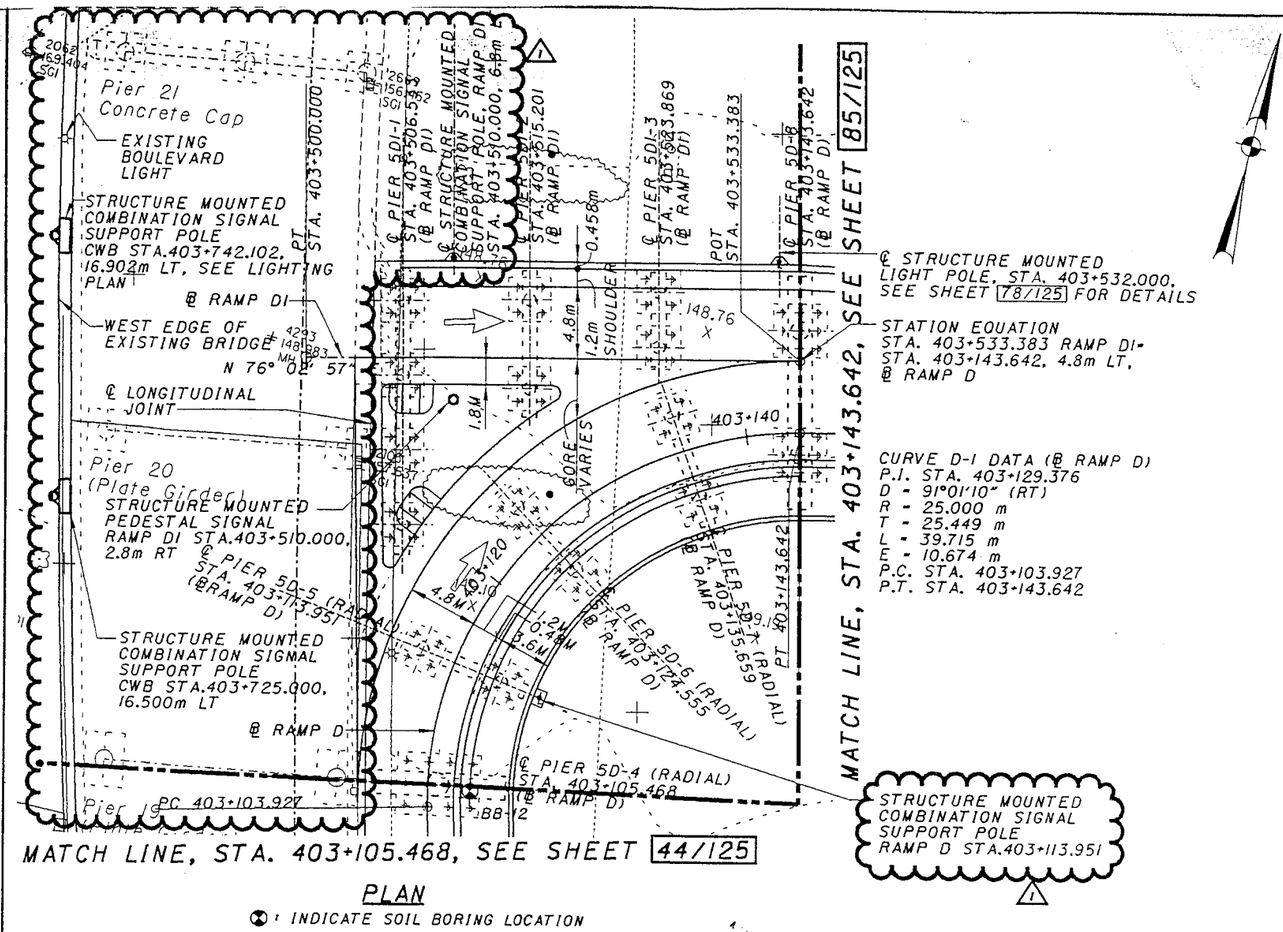
CITY OF SPOKANE

17

Revision 2 Pier 5D-1 3/13/00

Filename: 5D1Sht1.dgn

Section 4/6



PROPOSED STRUCTURE

TYPE: 4-SPAN MONOLITHICALLY CAST-IN-PLACE COMPOSITE CONCRETE DECK, INTEGRAL WITH SUBSTRUCTURE, SUPPORTED BY REINFORCED CONCRETE PIERS

LENGTH OF SPANS: 8 483 SPAN 1
10 604 SPAN 2
11 104 SPAN 3
7 983 SPAN 4
MEASURED c/c BEARING ALONG ℄ RAMP D

1 400 SPAN 1
8 668 SPAN 2
8 668 SPAN 3
9 514 SPAN 4
MEASURED C/C PIER ALONG ℄ RAMP DI

ROADWAY WIDTH: VARIES

DESIGN LOADING: MS18 WITH ALTERNATE MILITARY LOADING, CASE I

SKEW ANGLE: VARIES

SUPERELEVATION: VARIES

WEARING SURFACE: MONOLITHIC CONCRETE WITH MICROSILICA TOPPING

APPROACH SLABS: NONE

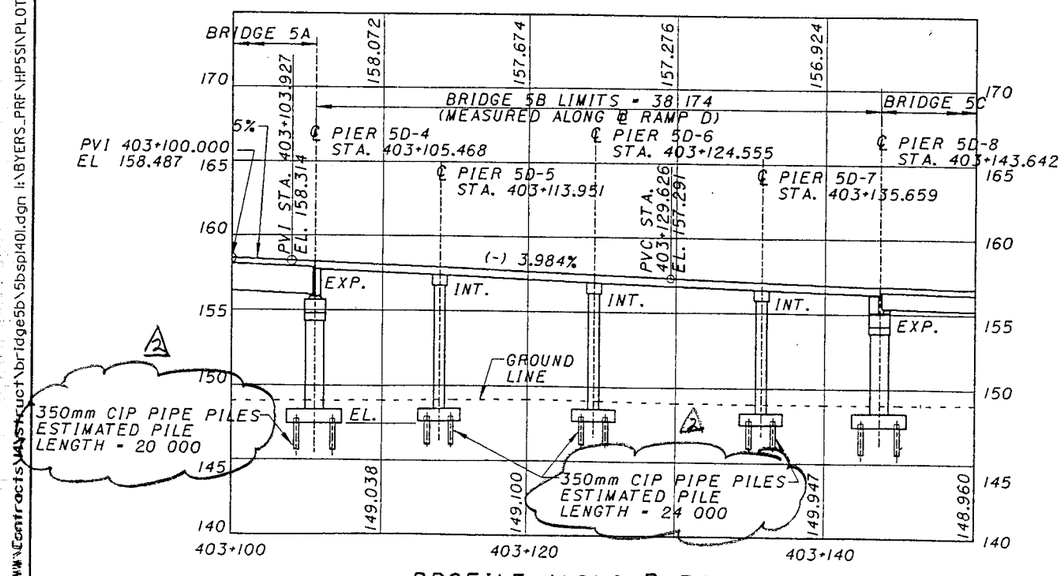
ALIGNMENT: TANGENT AND CURVE TO RIGHT

LATITUDE: N 39°05'45"

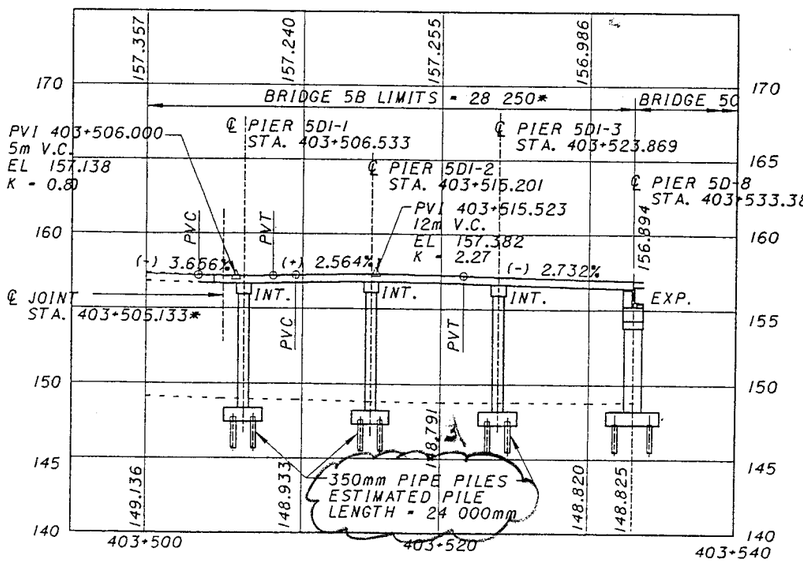
LONGITUDE: W 84°31'15"

PLAN

⊗ : INDICATE SOIL BORING LOCATION



PROFILE ALONG ℄ RAMP D



PROFILE ALONG ℄ RAMP DI

NOTES:

1. ALL STATIONS AND ELEVATIONS ARE IN METERS.
2. ALL DIMENSIONS AND LENGTHS ARE IN MILLIMETERS.
1 3. SEE SHEET 1A/24 FOR VERTICAL ALIGNMENT & SUPERELEVATION DIAGRAM.

* STATION OF LONGITUDINAL JOINT TO BE FIELD VERIFIED.

2 See Sheets 65B-65E for actual pile lengths

3 See Sheets 66B, 67B and 68A for actual pile lengths

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REVISED SITE PLAN & NOTES	12-22-99	TOM

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
112 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

PREPARED	DRAWN	REVISED	DATE
TOM	JAS		12-22-99
CHECKED	REVIEWED	STRUCTURE FILE NUMBER	
VWH		3160661	

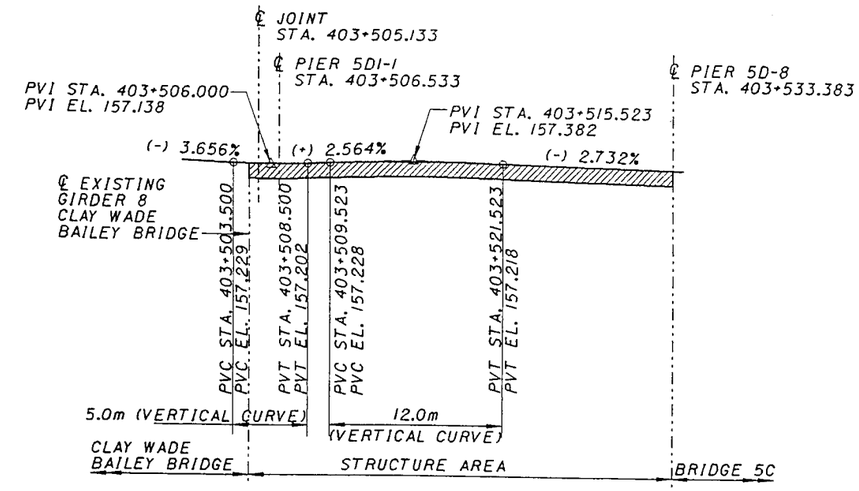
SITE PLAN - RAMP D AND RAMP DI
BRIDGE NO. 5B
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

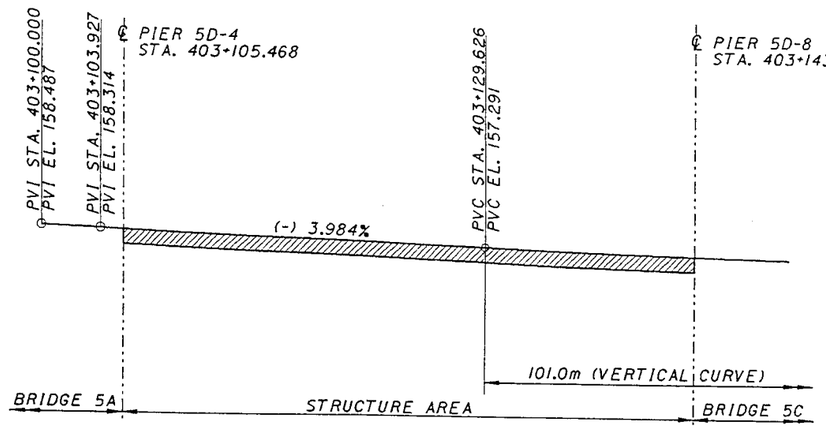
1/24

61/125

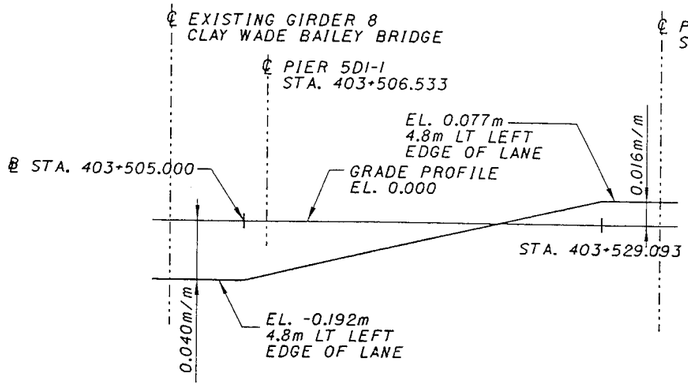
ADDENDUM NO. 1
DEC. 22, 1999



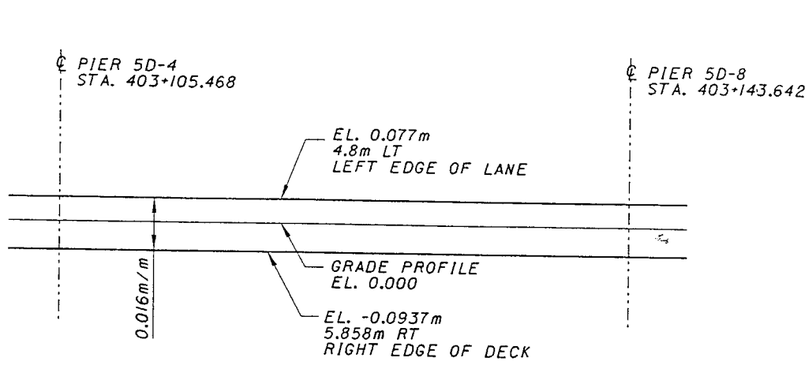
VERTICAL ALIGNMENT ALONG ℄ RAMP DI



VERTICAL ALIGNMENT ALONG ℄ RAMP D



SUPERELEVATION DIAGRAM ALONG ℄ RAMP DI



SUPERELEVATION DIAGRAM ALONG ℄ RAMP D

NOTES:

1. SEE SHEET 1/24 FOR NOTES, SITE PLAN, AND PROFILES.
2. FOR SUPERELEVATION TABLE SEE SHEET 14/125
3. FOR BRIDGE 5B DECK ELEVATIONS SEE SHEET 23/24

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	NEW SHEET	12-22-99	TOM

DESIGN AGENCY
MARSONS BRINCKERHOFF, INC.
112 ELM STREET, SUITE 2400
CINCINNATI, OH 45202-2720

REVISED DATE 12-22-99
STRUCTURE FILE NUMBER 316066 I
DRAWN JAS
REVIEWED
PREPARED TOM
CHECKED VWM

VERTICAL ALIGNMENT - RAMP D AND RAMP DI
BRIDGE NO "B" SECOND STREET
CLAY WADE BAILEY BRIDG

CITY OF CINCINNATI
CONTRACT NO.75X5753

ADDENDUM NO
DEC. 22, 199

12/17/99 Fri Dec 17 15:19:30 1999
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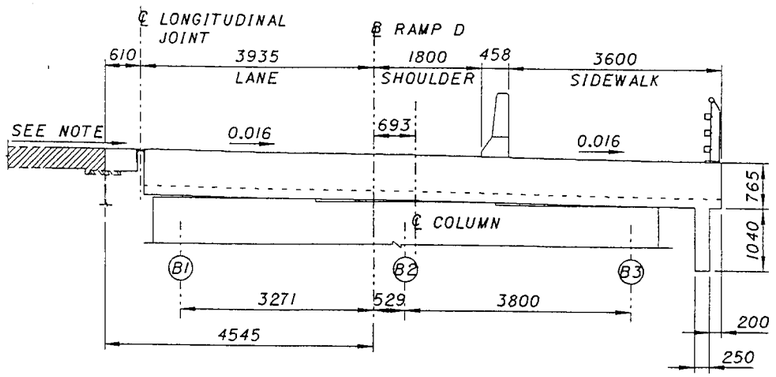
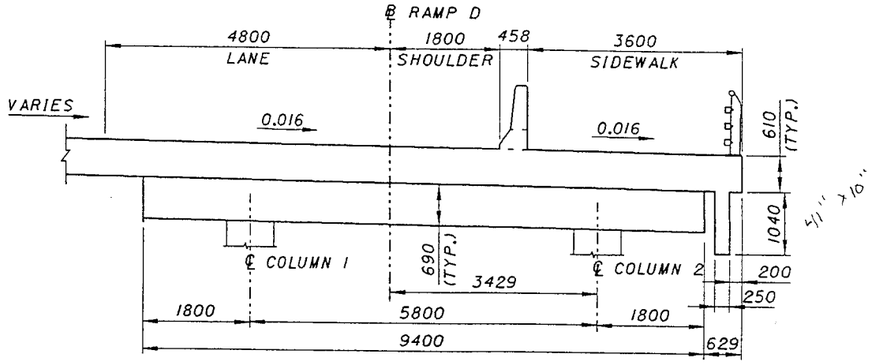
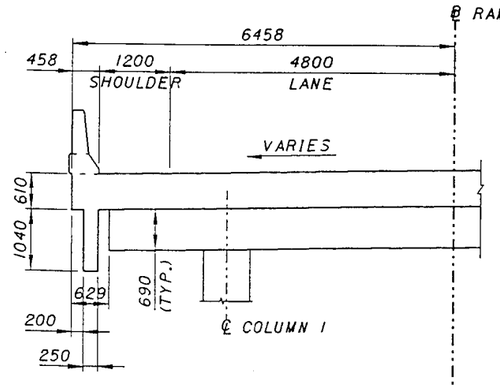


TYPICAL SECTION - RAMP D
@ STA. 403+105.468 (PIER 5D-4)
(BRIDGE 5B BEARING SHOWN)

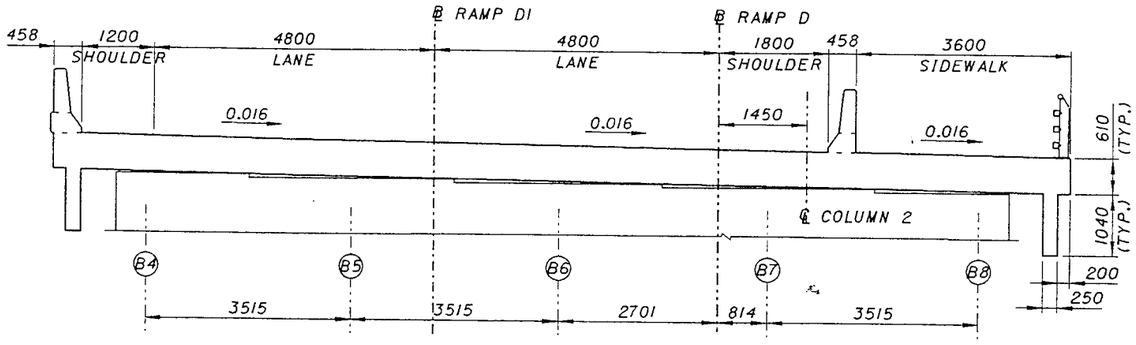
NOTE: MATCH CROSS SLOPE OF EXISTING CLAY WADE BAILEY BRIDGE.



TYPICAL SECTION - RAMP D
STA. 403+113.951 TO STA. 403+135.659
(PIER 5D-5 TO PIER 5D-7)



TYPICAL SECTION - RAMP DI
STA. 403+505.133 TO STA. 403+143.642



TYPICAL SECTION - RAMP DI & RAMP D
STA. 403+143.642 (℄ RAMP D) & STA. 403+533.383 (℄ RAMP DI)
(PIER 5D-8)

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REVISED SECTIONS	12-22-99	VJR

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2300
CINCINNATI, OH 45202-2720

REVISED DATE 12-22-99
STRUCTURE FILE NUMBER 316066 I

PREPARED TOM
DRAWN JAS
CHECKED JWH
REVIEWED

TYPICAL SECTIONS
BRIDGE NO 5B SECOND STREET
CLAY WADE BAILEY BRIDGE

CITY OF CINCINNATI
CONTRACT NO. 75X5753

2

62
125

ADDENDUM NO. 1
DEC. 22, 1999

12/17/99 Fri Dec 17 13:54:51 1999
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PLAN

PREPARED TOM	DRAWN JAS	REVISED	DATE 12-02-99
CHECKED V.J.R	REVIEWED	STRUCTURE FILE NUMBER 3160661	

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2600
CINCINNATI, OH 45202-2720

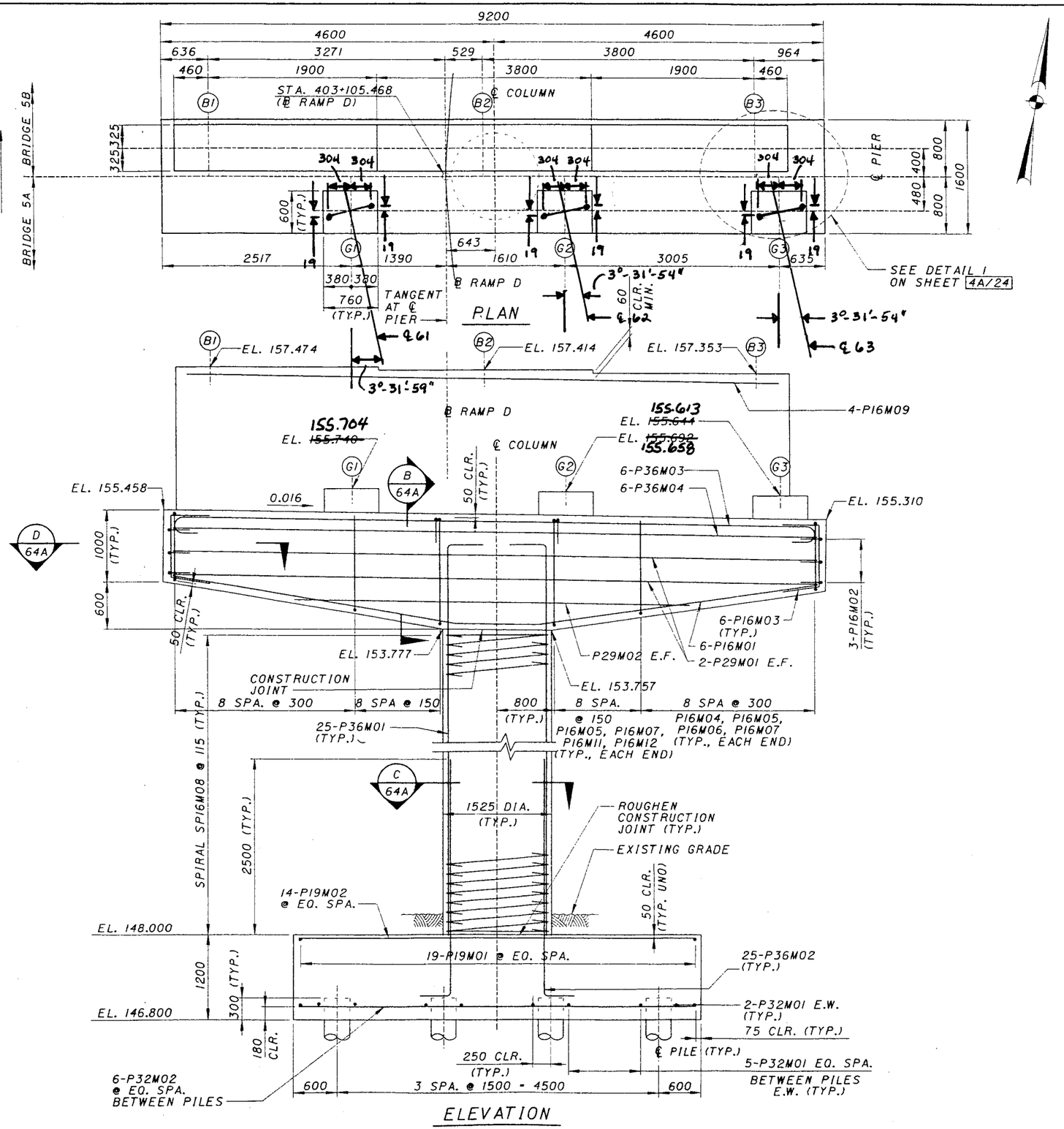
PIER LAYOUT
BRIDGE NO. 5B
CLAY WADE BAILEY BRIDGE TO YD STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

3/24

63/125

i:\fww\contracts\14\struct\bridge5b\5bpr140i.dgn1:\BYERS_PRF\SOLUS4\PLOT\5bpr140i.prf 12/01/99 Wed Dec 11:57:28 1999



ELEVATION

NOTES :

1. SEE SHEET 9/24 FOR REINFORCING SCHEDULE.
2. SEE SHEET 7/9 FOR FOUNDATION LAYOUT PLAN.
3. ADJUST PIER CAP REINFORCING TO AVOID COLUMN REINFORCING.
4. SPIRAL REINFORCING MAY BE DISCONTINUED AT BOTTOM OF PIER CAP AND TOP OF FOOTING.
5. ALL PILES ARE STEEL PIPE PILES 350 mm DIA. WITH ULTIMATE PILE CAPACITY OF 1512 kN.
6. ADJUST FOOTING BOTTOM REINFORCEMENT TO CLEAR PILES.

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
3 STREET, SUITE 2500
VATI, OH 45202-2720

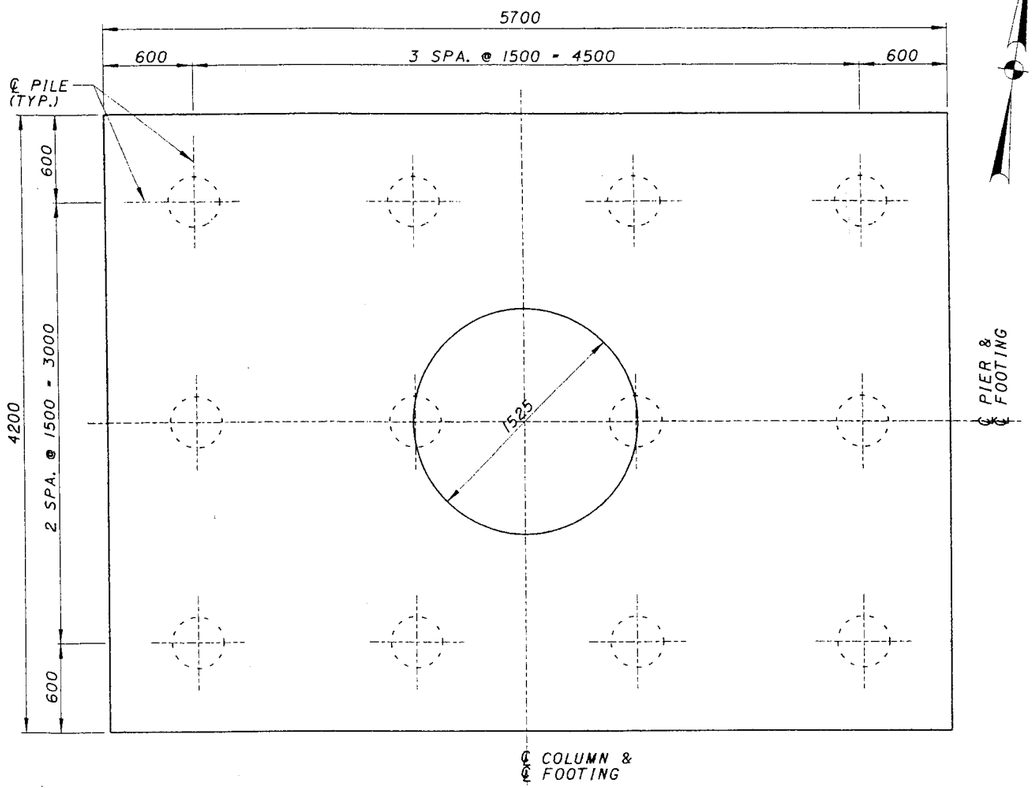
PREPARED	DRAWN	REVISED	DATE
JWW	JAS		12-02-99
CHECKED	REVIEWED		STRUCTURE FILE NUMBER
VJR			3160661

PIER 5D-4 PLAN AND ELEVATION
BRIDGE NO. 5D
CLAY WADE BAILEY BRIDGE TH :OND STREET

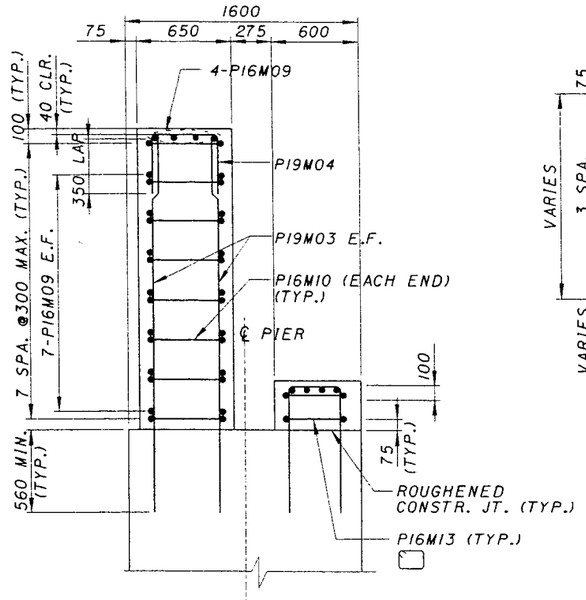
CITY OF CINCINNATI
CONTRACT NO. 75X5753

4 / [illegible]

64 / 125

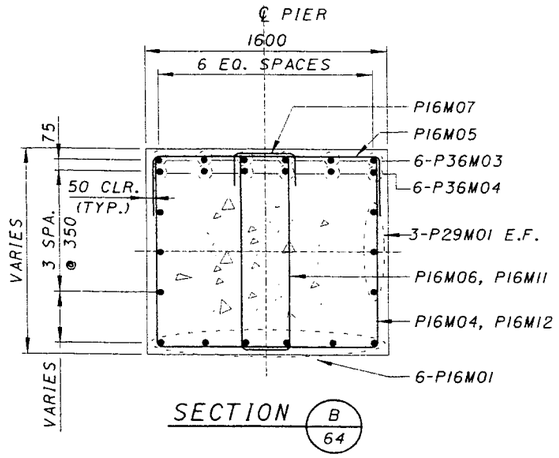


FOOTING PLAN

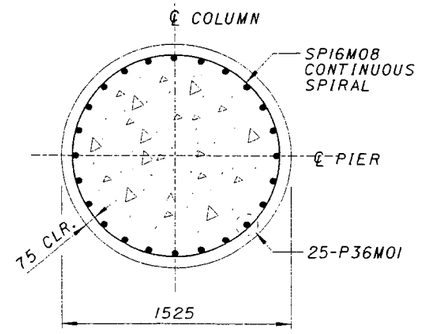


NOTE: FOR PEDESTAL ELEVATIONS, SEE SHEET 4/24.

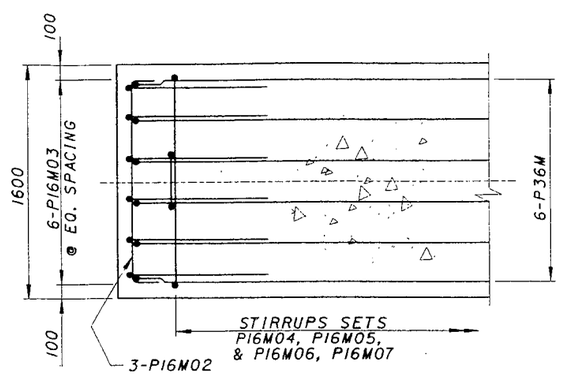
SECTION E -



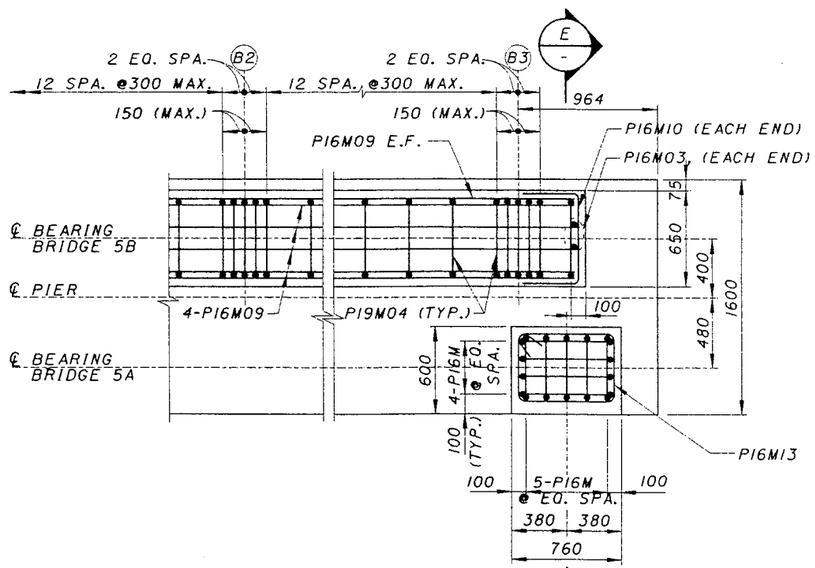
SECTION B 64



SECTION C 64



SECTION D 64



DETAIL PEDESTAL PLAN 1 64

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
W. STREET, SUITE 3500
WATT, OH 43202 2720
PB 1926.

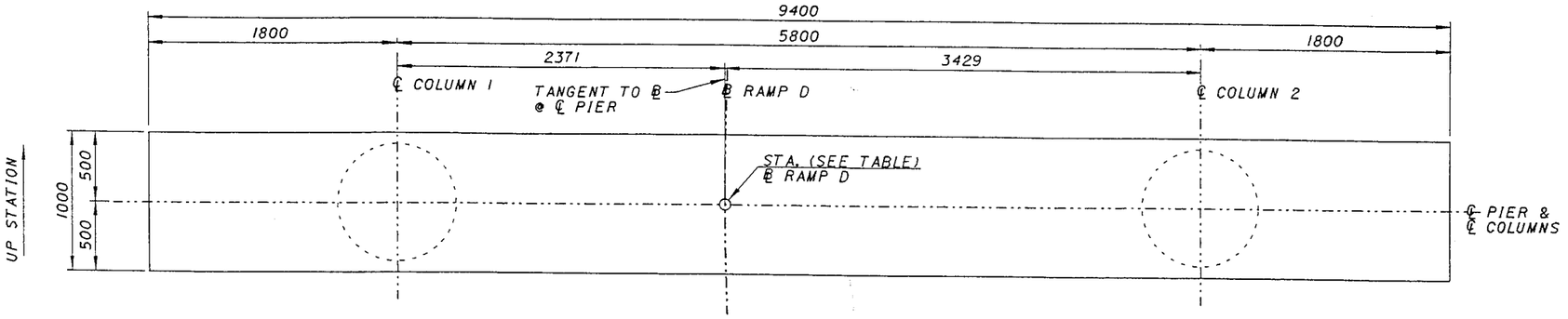
REVISED	DATE
	12-02-99
STRUCTURE FILE NUMBER	
	3160661

DRAWN	CHECKED
JAS	
REVIEWED	
PREPARED	
JWM	V.J.R

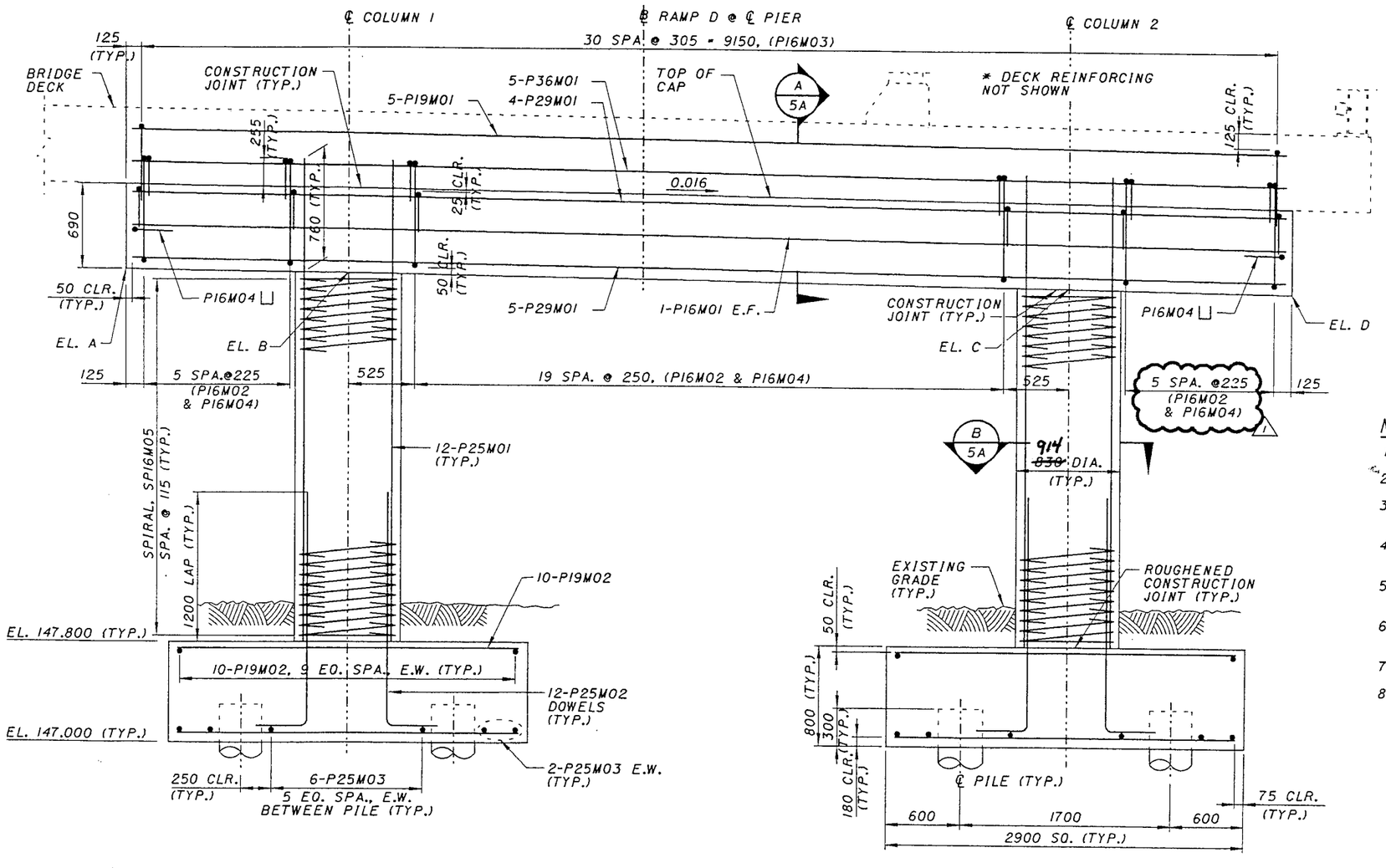
PIER 5D-4 FOOTING PLAN AND DETAILS
BRIDGE NO. 5
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

4A
64A
125



PLAN



PIER 5D-5 TO PIER 5D-7 ELEVATION - RAMP D

(PIER 5D-6, SHOWN)

PIER DIMENSIONS

PIER	STA.	EL. A	EL. B	EL. C	EL. D
5D-5	403+113.951	156.682	156.653	156.560	156.531
5D-6	403+124.555	156.259	156.230	156.137	156.108
5D-7	403+135.659	155.833	155.804	155.711	155.682

NOTES :

1. FOR REINFORCING SCHEDULE SEE SHEET 10/24.
2. FOR FOOTING PLANS AND DETAILS, SEE SHEET 5A/24.
3. ADJUST PIER CAP REINFORCING TO AVOID COLUMN REINFORCING.
4. SPIRAL REINFORCING MAY BE DISCONTINUED AT BOTTOM OF PIER CAP AND TOP OF FOOTING.
5. ADJUST FOOTING BOTTOM REINFORCEMENT TO CLEAR PILES.
6. ALL PILES ARE STEEL PIPE PILES 350mm DIA. WITH ULTIMATE PILE CAPACITY OF 1512 kN.
7. PIERS ARE RADIAL TO ℄ RAMP D1.
8. FOR TOP OF BRIDGE DECK ELEVATIONS, SEE SHEET 22/24.

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REVISED BAR MARKS	12-22-99	JWM

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
112 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

REVISED DATE 12-22-99
STRUCTURE FILE NUMBER 316066

PREPARED JWM
DRAWN JAS
CHECKED VJR
REVIEWED

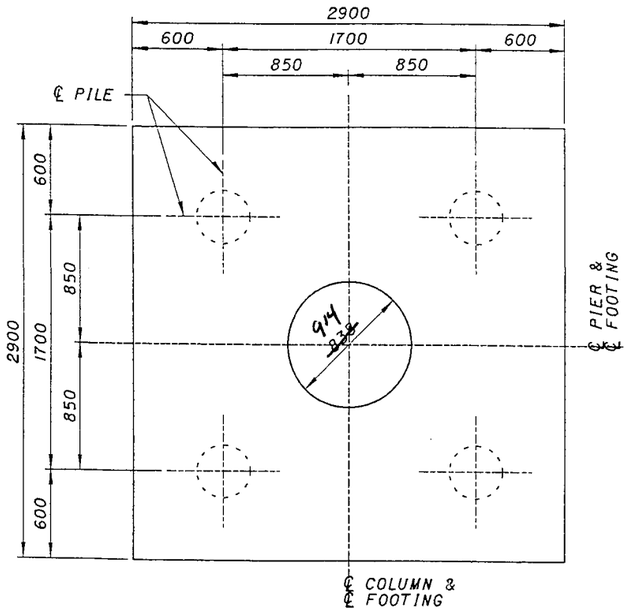
PLAN AND ELEVATION
PIER 5D-5 TO PIER 5D-7
BRIDGE NO. 9
SECOND STREET
CLAY WADE BAILEY BRIDG

CITY OF CINCINNATI
CONTRACT NO. 75X5753

5

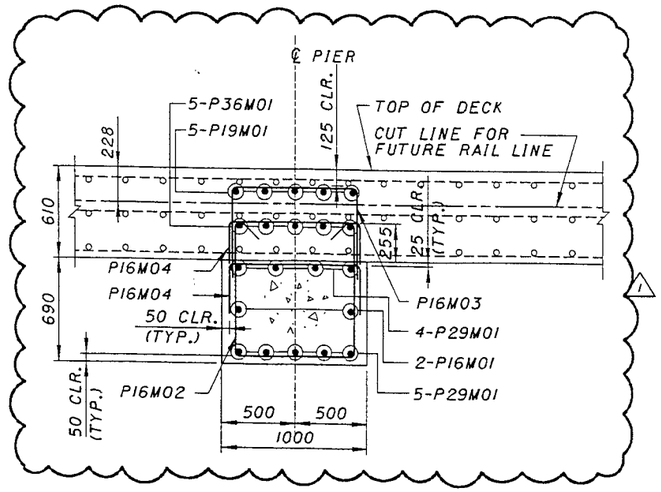
65
125

ADDENDUM NO. 1
DEC. 22, 1999

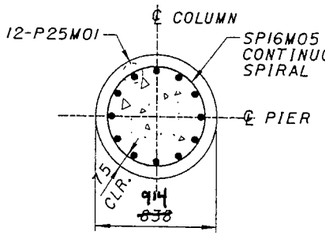


FOOTING PLAN

(COLUMN 1 AND COLUMN 2 FOOTINGS SIMILAR FOR PIERS 5D-5, 5D-6, AND 5D-7)



SECTION A/5



SECTION B/5

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REVISED BAR MARKS	12-22-99	VJR

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

PREPARED JWM | DRAWN JAS | REVISED 12-22-99 | STRUCTURE FILE NUMBER 316061
CHECKED VJR | REVIEWED

PIER 5D-5 TO PIER 5D-7 FOOTING PLAN AND DETAILS

BRIDGE NO. -8 / SECOND STREET
CLAY WADE BAILEY BRIDGE

CITY OF CINCINNATI
CONTRACT NO. 75X5753

5A

65A / 125

ADDENDUM NO. 1
DEC. 22, 1999

FORT WASHINGTON WAY 2000

City of Cincinnati

PILE QUANTITY & DRIVING RECORD (DRIVEN PILES)

PIER #5D-4

STRUCTURE BRIDGE "5B" CONTRACT #14

ITEM DESCRIPTION CAST IN PLACE PILING

TYPE PILE USED 350 MM CIP REINF CONC PILE .318" WALL THICKNESS SEE WAVE

HAMMER MAKE DELMAG D-19 MODEL APE D19-32 E= EQUATION ANALYSIS

DESIGN BRNG. 756 KN REQUIRED BRNG. 1512 KN = 340 KIPS BLOW/FT AT REQUIRED BRNG. 50*

PILE DRIVING INSPECTED BY DOUG MOHLER PILE QUANTITY CALC BY DOUG MOHLER DATE 3-27-00

PILE CONCRETE PLACING INSP. BY DOUG MOHLER PILE QUANTITY CHECK BY NORM OBERT DATE 4-23-01

PILE NO.	DATE PILE DRIVEN	BLOWS PER 6" OR 12"	DATE PILE CONCRETE PLACED	(1) SPEC. TOP OF PILE ELEV.	(2) SPEC. TP ELEV.	(3) LENGTH IN LEADS	(4) LENGTH OF CUT-OFF	(5) ACTUAL LENGTH IN GROUND (3-4)	(6) ACTUAL TP ELEV. (1-5)	(7) PAY LENGTH *SEE NOTE BELOW	REMARKS	PRE DRILL HOLE DEPTH	LENGTH OF RE-BAR REQ.
31	3-23-00	68	3-27-00	482.61	N/A	70.0	2.2	67.8	414.81	67.8	VERTICAL	N/A	N/A
32	3-24-00	50	3-27-00	482.61	N/A	89.0	19.4	69.6	413.01	69.6	VERTICAL	N/A	N/A
33	3-24-00	56	3-27-00	482.61	N/A	96.0	14.7	81.3	401.31	81.3	VERTICAL	N/A	N/A
34			3-27-00	482.61	N/A			82.4	400.21	82.4		N/A	N/A
35	3-23-00	50	3-27-00	482.61	N/A	89.5	6.6	82.9	399.71	82.9	VERTICAL	N/A	N/A
36	3-24-00	65	3-27-00	482.61	N/A	90.0	21.1	68.9	413.71	68.9	VERTICAL	N/A	N/A
37	3-24-00	50	3-27-00	482.61	N/A	90.0	10.0	80.0	402.61	80.0	VERTICAL	N/A	N/A
38			3-27-00	482.61	N/A			80.5	401.11	80.5		N/A	N/A
39	3-23-00	66	3-27-00	482.61	N/A	89.0	8.0	81.0	401.61	81.0	VERTICAL	N/A	N/A
40	3-23-00	50	3-27-00	482.61	N/A	89.5	10.6	78.9	403.71	78.9	VERTICAL	N/A	N/A
41	3-24-00	63	3-27-00	482.61	N/A	90.0	9.9	80.1	402.51	80.1	VERTICAL	N/A	N/A
42			3-27-00	482.61	N/A			78.5	404.11	78.5			

* BASED ON DYNAMIC TEST AND STROKE OF 7'-7½" FT AT FUEL SETTING OF LEVEL 3

SHEET TOTALS	ITEM NO. B 12 EA.	ITEM NO. B 931.9 L.F.

*THE PAY LENGTH IS THE ACTUAL LENGTH IN THE GROUND, EXCEPT THAT NO PAY WILL BE MADE FOR THAT LENGTH OF PILE DRIVEN BELOW THE ELEVATION WHERE SPECIFIED TIP AND/OR SPECIFIED BEARING (WHICHEVER IS LOWER) WAS OBTAINED ALSO, WHEN STEEL PILES ARE SUBSTITUTED FOR CLASS 45.1 45.2 OR 70 PILING THE LOWER LIMIT FOR PAYMENT WILL BE NO LOWER THAN THE SPECIFIED TIP ELEVATION.

284.043 M

Pier 5D-4 Pile Summary

65B/125

FORT WASHINGTON WAY 2000

City of Cincinnati

PILE QUANTITY & DRIVING RECORD (DRIVEN PILES)

PIER #5D-5

ITEM DESCRIPTION CAST-IN-PLACE PILING

STRUCTURE BEIDLE #5B - CONTRACT #14

TYPE PILE USED 350MM CIP REINF. CONC. PILE SEE WAVE

HAMMER MAKE DELMAG D-19 MODEL APE D19-32 E= EQUATION ANALYSIS

DESIGN BRNG. 756 KN REQUIRED BRNG. 1512KN=340KIPS BLOW/FT AT REQUIRED BRNG. 42 *

PILE DRIVING INSPECTED BY DOUG MOYER PILE QUANTITY CALC BY DOUG MOYER DATE 3-14-00

PILE CONCRETE PLACING INSP. BY DOUG MOYER PILE QUANTITY CHECK BY NORM OBERT DATE 4-23-01

PILE NO.	DATE PILE DRIVEN	BLOWS PER 12"	DATE PILE CONCRETE PLACED	(1) SPEC. TOP OF PILE ELEV.	(2) SPEC. TP ELEV.	(3) LENGTH IN LEADS	(4) LENGTH OF CUT-OFF	(5) ACTUAL LENGTH IN GROUND (3-4)	(6) ACTUAL TP ELEV. (1-5)	(7) PAY LENGTH *SEE NOTE BELOW	REMARKS	PRE DRILL HOLE DEPTH	LENGTH OF RE-BAR REQ.
43	3-13-00	44	3-14-00	483.27	N/A	85.0	4.4	80.6	402.67	80.6	VERTICAL	N/A	N/A
44	3-13-00	46	3-14-00	483.27	N/A	85.0	4.4	80.6	402.67	80.6	VERTICAL	N/A	N/A
45	3-13-00	42	3-14-00	483.27	N/A	85.0	4.7	80.3	402.97	80.3	VERTICAL	N/A	N/A
46	3-13-00	50	3-14-00	483.27	N/A	85.0	3.8	81.2	402.07	81.2	VERTICAL	N/A	N/A
47	3-14-00	63	3-14-00	483.27	N/A	85.0	4.6	80.4	402.87	80.4	VERTICAL	N/A	N/A
48	3-14-00	42	3-14-00	483.27	N/A	85.0	4.7	80.3	402.97	80.3	VERTICAL	N/A	N/A
49	3-13-00	42	3-14-00	483.27	N/A	85.0	4.5	80.5	402.77	80.5	VERTICAL	N/A	N/A
50	3-14-00	50	3-14-00	483.27	N/A	85.0	5.6	79.4	403.87	79.4	VERTICAL	N/A	N/A
	* BASED ON DYNAMIC TEST AND STROKE OF 7-7½ FT AT FULL SETTING ON LEVEL 3												
SHEET TOTALS				ITEM NO. 8 8 EA.				ITEM NO. 8 643.3 L.F.					

*THE PAY LENGTH IS THE ACTUAL LENGTH IN THE GROUND, EXCEPT THAT NO PAY WILL BE MADE FOR THAT LENGTH OF PILE DRIVEN BELOW THE ELEVATION WHERE SPECIFIED TIP AND/OR SPECIFIED BEARING (WHICHEVER IS LOWER) WAS OBTAINED ALSO, WHEN STEEL PILES ARE SUBSTITUTED FOR CLASS 45.1 45.2 OR 70 PILING THE LOWER LIMIT FOR PAYMENT WILL BE NO LOWER THAN THE SPECIFIED TIP ELEVATION.

196,078 M

Pier 5D-5 Pile Summary

65C
125

FORT WASHINGTON WAY 2000

City of Cincinnati

PILE QUANTITY & DRIVING RECORD (DRIVEN PILES)

PIER #5D-6

STRUCTURE BRIDGE #5B - CONTRACT #14

ITEM DESCRIPTION CAST-IN-PLACE PILING

TYPE PILE USED 350 MM CIP REINF. CONC. PILE

HAMMER MAKE DELMAG D-19 MODEL APE D19-32 E= SEE WAVE EQUATION ANALYSIS

DESIGN BRNG. 756 kN REQUIRED BRNG. 1512 kN = 340 KIPS BLOW/FT AT REQUIRED BRNG. 50*

PILE DRIVING INSPECTED BY DOUG MOHLER PILE QUANTITY CALC BY DOUG MOHLER DATE 4-10-00

PILE CONCRETE PLACING INSP. BY JIM EHRET PILE QUANTITY CHECK BY NORM OBERT DATE 4-23-01

PILE NO.	DATE PILE DRIVEN	BLOWS PER 12"	DATE PILE CONCRETE PLACED	(1) SPEC. TOP OF PILE ELEV.	(2) SPEC. TP ELEV.	(3) LENGTH IN LEADS	(4) LENGTH OF CUT-OFF	(5) ACTUAL LENGTH IN GROUND (3-4)	(6) ACTUAL TP ELEV. (1-5)	(7) PAY LENGTH *SEE NOTE BELOW	REMARKS	PRE DRILL HOLE DEPTH	LENGTH OF RE-BAR REQ.
51	4-10-00	85	4-10-00	483.27	N/A	85.0	6.7	78.3	404.97	78.3	VERTICAL	N/A	N/A
52	4-10-00	54	4-10-00	483.27	N/A	85.0	13.3	71.7	411.57	71.7	VERTICAL	N/A	N/A
53	4-10-00	54	4-10-00	483.27	N/A	85.0	5.4	79.6	403.67	79.6	VERTICAL	N/A	N/A
54	4-10-00	54	4-10-00	483.27	N/A	85.0	9.6	75.4	407.87	75.4	VERTICAL	N/A	N/A
55	4-10-00	50	4-10-00	483.27	N/A	85.0	5.4	79.6	403.67	79.6	VERTICAL	N/A	N/A
56	4-7-00	50	4-10-00	483.27	N/A	85.0	12.1	72.9	410.37	72.9	VERTICAL	N/A	N/A
57	4-10-00	50	4-10-00	483.27	N/A	85.0	9.3	75.7	407.57	75.7	VERTICAL	N/A	N/A
58	4-6-00	50	4-10-00	483.27	N/A	85.0	6.3	78.7	404.57	78.7	VERTICAL	N/A	N/A

* BASED ON DYNAMIC TEST AND STROKE OF 7-7½ FT AT FUEL SETTING ON LEVEL 3

SHEET TOTALS — ITEM NO. 8 8 EA. — ITEM NO. 8 611.90 L.F.

186.507M

*THE PAY LENGTH IS THE ACTUAL LENGTH IN THE GROUND, EXCEPT THAT NO PAY WILL BE MADE FOR THAT LENGTH OF PILE DRIVEN BELOW THE ELEVATION WHERE SPECIFIED TIP AND/OR SPECIFIED BEARING (WHOEVER IS LOWER) WAS OBTAINED ALSO, WHEN STEEL PILES ARE SUBSTITUTED FOR CLASS 45.1 45.2 OR 70 PILING THE LOWER LIMIT FOR PAYMENT WILL BE NO LOWER THAN THE SPECIFIED TIP ELEVATION.

Pile Summary

Pier 5D-6 P

65D/125

FORT WASHINGTON WAY 2000

City of Cincinnati

PILE QUANTITY & DRIVING RECORD (DRIVEN PILES)

PIER "5D-7

STRUCTURE BRIDGE #5B - CONTRACT #14

ITEM DESCRIPTION CAST-IN-PLACE PILING

TYPE PILE USED 350MM CIP REINF. CONC. PILE SEE WAVE

HAMMER MAKE DELMAG D-19 MODEL APE D19-32 E= EQUATION ANALYSIS

DESIGN BRNG. 756 KN REQUIRED BRNG. 1512 KN = 340 KIPS BLOW/FT AT REQUIRED BRNG. 50 *

PILE DRIVING INSPECTED BY DOUG MOELLER PILE QUANTITY CALC BY DOUG MOELLER DATE 4-12-00

PILE CONCRETE PLACING INSP. BY JIM EHRET PILE QUANTITY CHECK BY NORM OSMER DATE 4-24-01

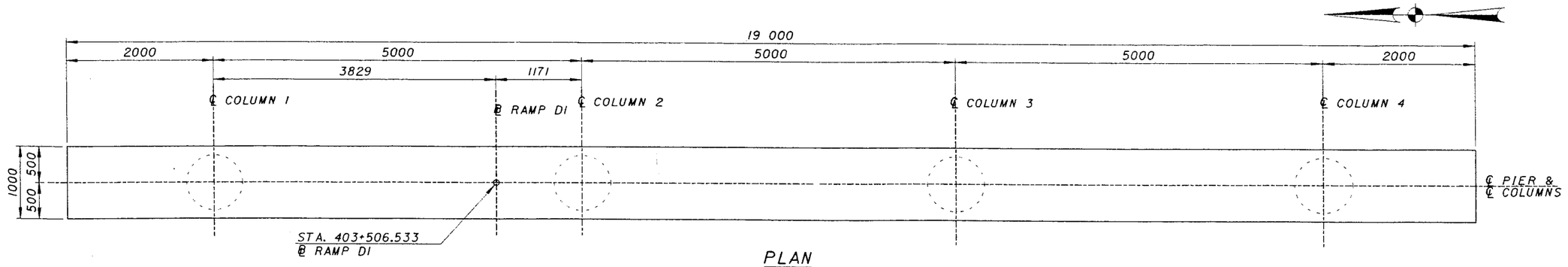
PILE NO.	DATE PILE DRIVEN	BLOWS PER 1', 12'	DATE PILE CONCRETE PLACED	(1) SPEC. TOP OF PILE ELEV.	(2) SPEC. TP ELEV.	(3) LENGTH IN LEADS	(4) LENGTH OF CUT-OFF	(5) ACTUAL LENGTH IN GROUND (3-4)	(6) ACTUAL TP ELEV. (1-5)	(7) PAY LENGTH *SEE NOTE BELOW	REMARKS	PRE DRILL HOLE DEPTH	LENGTH OF RE-BAR REQ.
59	4-12-00	54	4-13-00	483.27	N/A	85.0	3.1	81.9	401.37	81.9	VERTICAL	N/A	N/A
60	4-12-00	60	4-13-00	483.27	N/A	85.0	3.2	81.8	401.47	81.8	VERTICAL	N/A	N/A
61	4-12-00	50	4-13-00	483.27	N/A	85.0	6.2	78.8	404.47	78.8	VERTICAL	N/A	N/A
62	4-12-00	61	4-13-00	483.27	N/A	85.0	3.3	81.7	401.57	81.7	VERTICAL	N/A	N/A
63	4-12-00	54	4-13-00	483.27	N/A	85.0	6.5	78.5	404.77	78.5	VERTICAL	N/A	N/A
64	4-12-00	50	4-13-00	483.27	N/A	85.0	7.0	78.0	405.27	78.0	VERTICAL	N/A	N/A
65	4-12-00	50	4-13-00	483.27	N/A	85.0	7.3	77.7	405.57	77.7	VERTICAL	N/A	N/A
66	4-12-00	60	4-13-00	483.27	N/A	85.0	7.3	77.7	405.57	77.7	VERTICAL	N/A	N/A
	*	BASED ON DYNAMIC TEST AND STROKE OF 7-7½ FT AT FUEL SETTING ON LEVEL 3											

SHEET TOTALS ITEM NO. 8 8 EA. ITEM NO. 8 636.1 L.F. 193.883 M

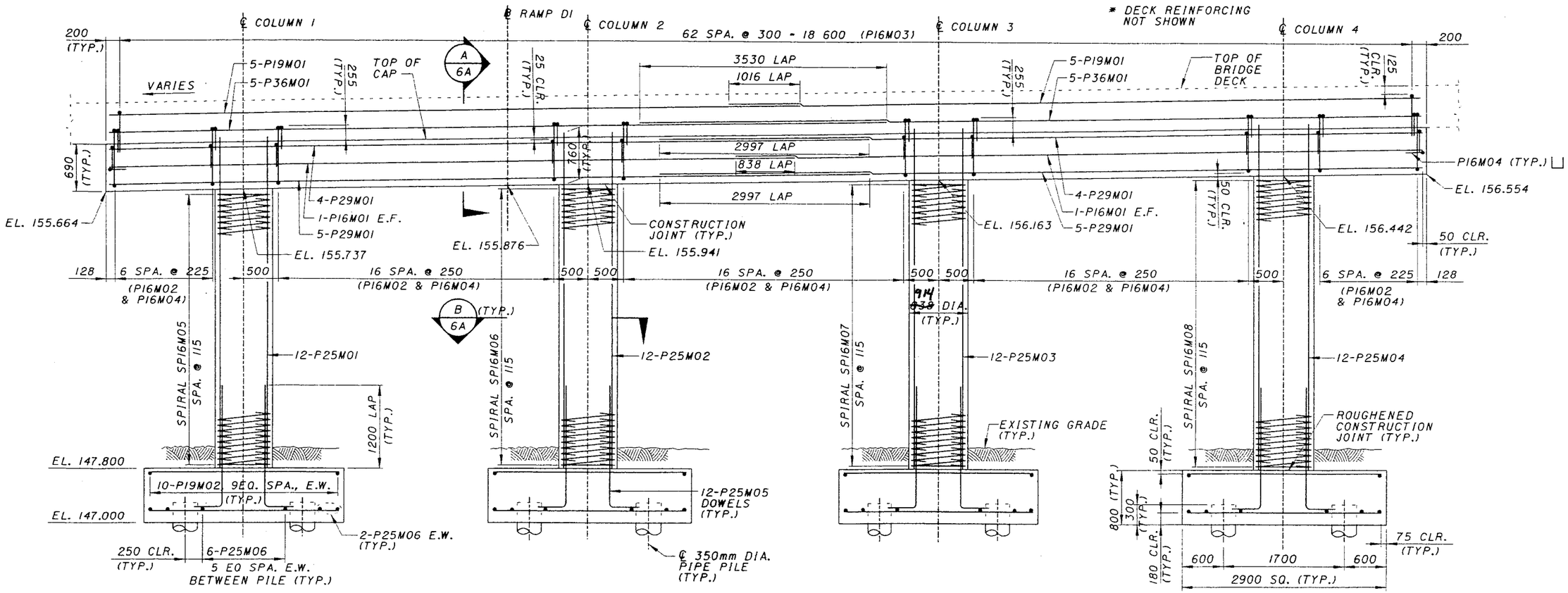
*THE PAY LENGTH IS THE ACTUAL LENGTH IN THE GROUND, EXCEPT THAT NO PAY WILL BE MADE FOR THAT LENGTH OF PILE DRIVEN BELOW THE ELEVATION WHERE SPECIFIED TIP AND/OR SPECIFIED BEARING (WHOEVER IS LOWER) WAS OBTAINED ALSO, WHEN STEEL PILES ARE SUBSTITUTED FOR CLASS 45.1 45.2 OR 70 PILING THE LOWER LIMIT FOR PAYMENT WILL BE NO LOWER THAN THE SPECIFIED TIP ELEVATION.

Pier 5D-7 Pile Summary

65E
125



PLAN



PIER 5D1-1 ELEVATION - RAMP D1

NOTES:

1. SEE SHEET 5/24 FOR NOTES.
2. SEE SHEET 10A/24 FOR BAR SCHEDULE.
3. SEE SHEET 6A/24 FOR FOOTING PLAN.

   FOR TOP OF BRIDGE DECK ELEVATIONS, SEE SHEET 22/24.

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
112 STREET, SUITE 2500
C 171, OH 45202-2720

REVISED	DATE
	12-02-99

STRUCTURE FILE NUMBER 3160661

DRAWN	REVIEWED
JAS	

PREPARED	CHECKED
JWM	VJR

PIER 5D1-1 PLAN & ELEVATION
BRIDGE NO. 5B
CLAY WADE BAILEY BRIDGE TO
IND STREET

CITY OF CINCINNATI
CONTRACT NO. 7.5X5753

6/24

66/125

Wed Dec 1 09:48:57 1999
12/01/99
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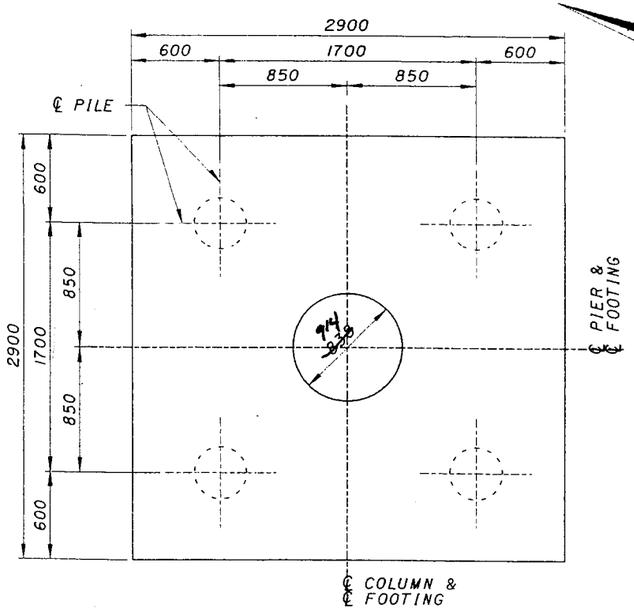
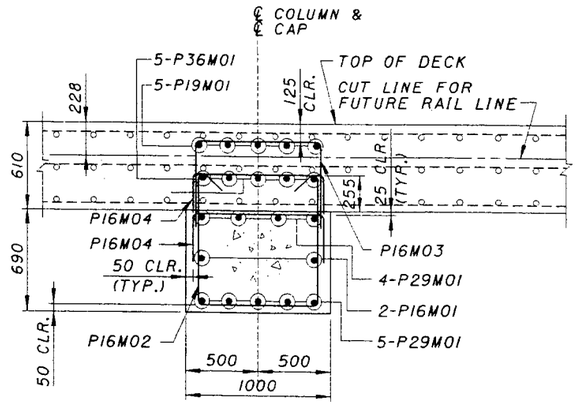
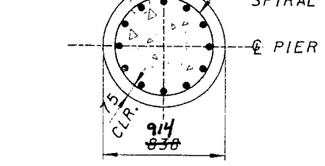


FOOTING PLAN

(FOOTING FOR COLUMN 1 SHOWN, FOOTINGS FOR COLUMN 2, 3 & 4 SIMILAR)



SECTION A / 6



SECTION B / 6

PIER 501-1 FOOTING PLAN AND DETAILS
BRIDGE NO. 5B
CLAY WADE BAILEY BRIDGE TO ℄ D STREET.

CITY OF CINCINNATI
CONTRACT NO. 75X5753

DESIGN AGENCY: PARSONS BRINCKERHOFF, INC. 312 ELM STREET, SUITE 2500 CINCINNATI, OH 45202-2720

PREPARED	DRAWN	REVISED	DATE
JWM	JAS		12-02-99
CHECKED	REVIEWED	STRUCTURE FILE NUMBER	
VJR		3160661	

6A / 24

66A / 125

12/01/99

Wed Dec 1 10:32:32 1999

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FORT WASHINGTON WAY 2000

City of Cincinnati

PILE QUANTITY & DRIVING RECORD (DRIVEN PILES)

Pier #5D1-1

ITEM DESCRIPTION Cast-In-Place Piling

STRUCTURE Bridge #5B - Contract #14

TYPE PILE USED 350 mm CIP Reinf. Conc. Pile SIDE WAVE

HAMMER MAKE Delmag D-19 MODEL APE D19-32 E= Equation Analysis

DESIGN BRNG. 756 kN REQUIRED BRNG. 1512 kN = 340 kips BLOW/FT AT REQUIRED BRNG. 42 * Jim Ehret 3-22-00

PILE DRIVING INSPECTED BY Jim Ehret Dave Mohrbe PILE QUANTITY CALC BY Dave Mohrbe DATE 3-17-00, 3-15-00

PILE CONCRETE PLACING INSP. BY Jim Ehret Dave Mohrbe PILE QUANTITY CHECK BY Norm Osbert DATE 4-24-01

PILE NO.	DATE PILE DRIVEN	BLOWS PER @ 12"	DATE PILE CONCRETE PLACED	(1) SPEC. TOP OF PILE ELEV.	(2) SPEC. TP ELEV.	(3) LENGTH IN LEADS	(4) LENGTH OF CUT-OFF	(5) ACTUAL LENGTH IN GROUND (3-4)	(6) ACTUAL TP ELEV. (1-5)	(7) PAY LENGTH *SEE NOTE BELOW	REMARKS	PRE DRILL HOLE DEPTH	LENGTH OF RE-BAR REQ.
67	3-15-00	42	3-17-00	483.27	N/A	85.0	7.5	77.5	405.77	77.5	VERTICAL	N/A	N/A
68	3-22-00	52	3-22-00	483.27	N/A	85.0	12.0	73.0	410.27	73.0	VERTICAL	N/A	N/A
69	3-22-00	42	3-22-00	483.27	N/A	85.0	6.3	78.7	404.57	78.7	VERTICAL	N/A	N/A
70	3-15-00	42	3-17-00	483.27	N/A	85.0	20.0	65.0	418.27	65.0	VERTICAL	N/A	N/A
71	3-15-00	72	3-17-00	483.27	N/A	85.0	7.0	78.0	405.27	78.0	VERTICAL	N/A	N/A
72	3-15-00	42	3-17-00	483.27	N/A	85.0	10.4	74.6	408.67	74.6	VERTICAL	N/A	N/A
73	3-15-00	47	3-17-00	483.27	N/A	85.0	12.6	72.4	410.87	72.4	VERTICAL	N/A	N/A
74	3-15-00	56	3-17-00	483.27	N/A	85.0	11.8	73.2	410.07	73.2	VERTICAL	N/A	N/A
75	3-14-00	47	3-15-00	483.27	N/A	85.0	2.2	82.8	400.47	82.8	VERTICAL	N/A	N/A
76	3-14-00	46	3-15-00	483.27	N/A	85.0	9.6	75.4	407.87	75.4	VERTICAL	N/A	N/A
77	3-15-00	50	3-15-00	483.27	N/A	85.0	1.1	83.9	399.37	83.9	VERTICAL	N/A	N/A
78	3-15-00	50	3-15-00	483.27	N/A	85.0	1.9	83.1	400.17	83.1	VERTICAL	N/A	N/A
79	3-14-00	50	3-15-00	483.27	N/A	85.0	10.2	74.8	408.47	74.8	VERTICAL	N/A	N/A
80	3-14-00	46	3-15-00	483.27	N/A	85.0	10.1	74.90	408.37	74.9	VERTICAL	N/A	N/A
81	3-14-00	50	3-15-00	483.27	N/A	85.0	7.2	77.8	405.47	77.8	VERTICAL	N/A	N/A
82	3-14-00	42	3-15-00	483.27	N/A	85.0	9.1	75.9	407.37	75.9	VERTICAL	N/A	N/A
	* BASED ON DYNAMIC TEST AND STROKE OF 7-7½ FT AT FUEL SETTING ON 2 & 12 & 3												
SHEET TOTALS				ITEM NO. 8 16 EA.				ITEM NO. 8 1224.0 L.F.					

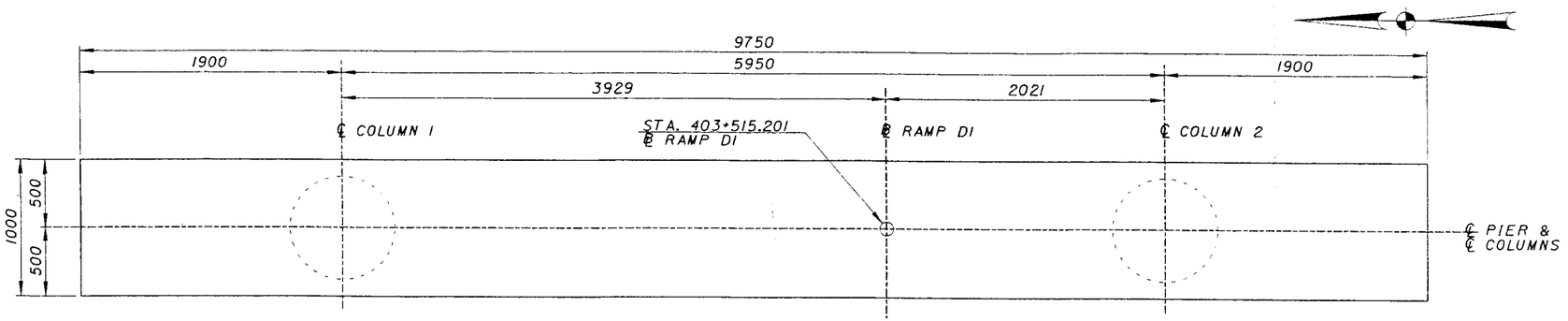
*THE PAY LENGTH IS THE ACTUAL LENGTH IN THE GROUND, EXCEPT THAT NO PAY WILL BE MADE FOR THAT LENGTH OF PILE DRIVEN BELOW THE ELEVATION WHERE SPECIFIED TIP AND/OR SPECIFIED BEARING (WHOEVER IS LOWER) WAS OBTAINED ALSO, WHEN STEEL PILES ARE SUBSTITUTED FOR CLASS 45.1 45.2 OR 70 PILING THE LOWER LIMIT FOR PAYMENT WILL BE NO LOWER THAN THE SPECIFIED TIP ELEVATION.

372.16/M

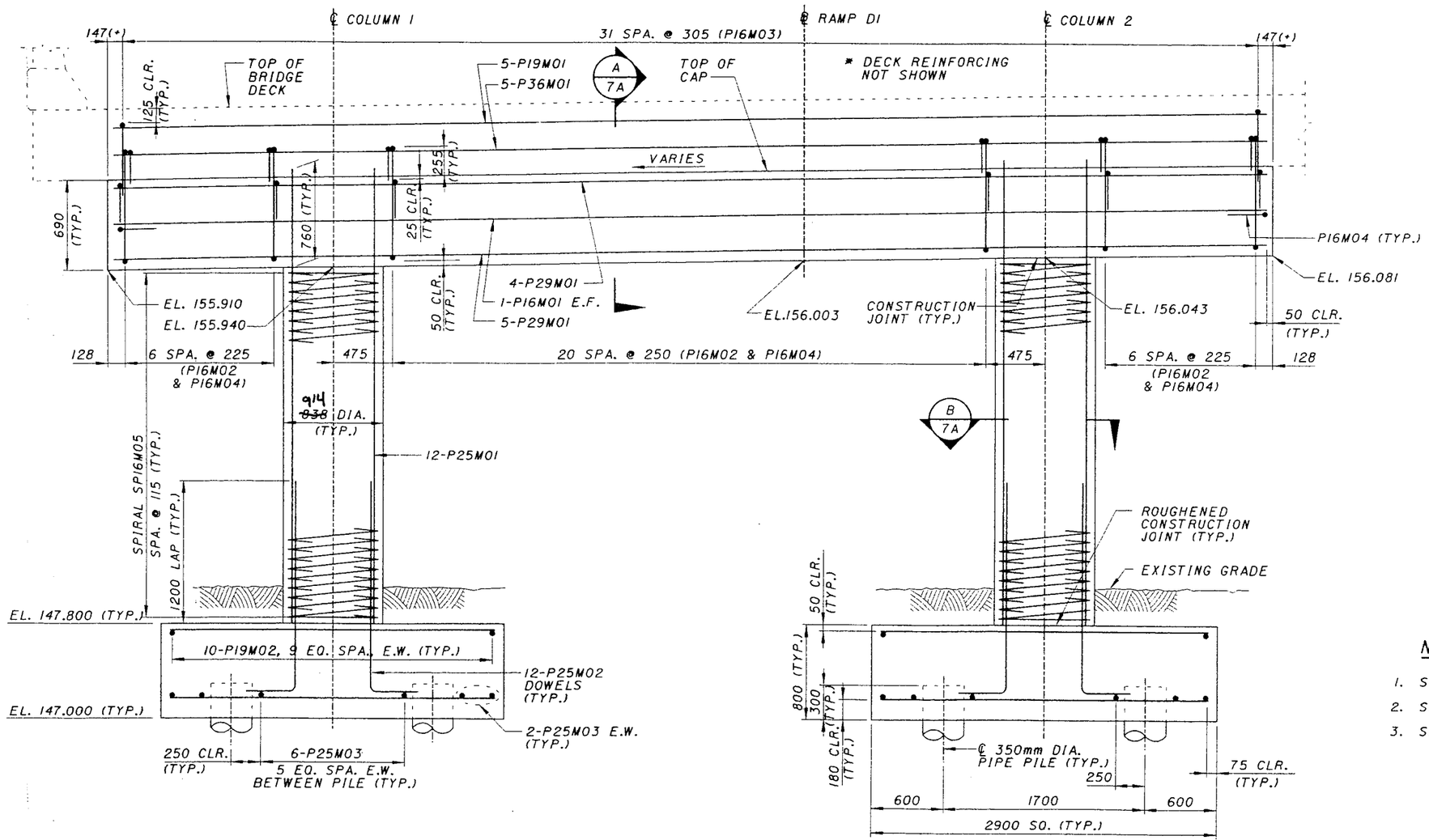
Pile Summary

Pier 5D1-1

106B/125



PLAN



PIER 5DI-2 ELEVATION - RAMP DI

NOTES:

1. SEE SHEET 5/24 FOR NOTES.
2. SEE SHEET 7A/24 FOR FOOTING PLAN.
3. SEE SHEET 10B/24 FOR BAR SCHEDULE.

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2300
CINCINNATI, OH 45202-2720
PB

REVISED	DATE
	12-02-99

STRUCTURE FILE NUMBER 3160661

PREPARED	DRAWN	REVIEWED
JWM	JAS	
CHECKED		
V.J.R.		

PIER 5DI-2 PLAN AND ELEVATION
BRIDGE NO. 58
CLAY WADE BAILEY BRIDGE TO 9TH STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

7/24

67/125

Wed Dec 1 10:33:06 1999
12/01/99
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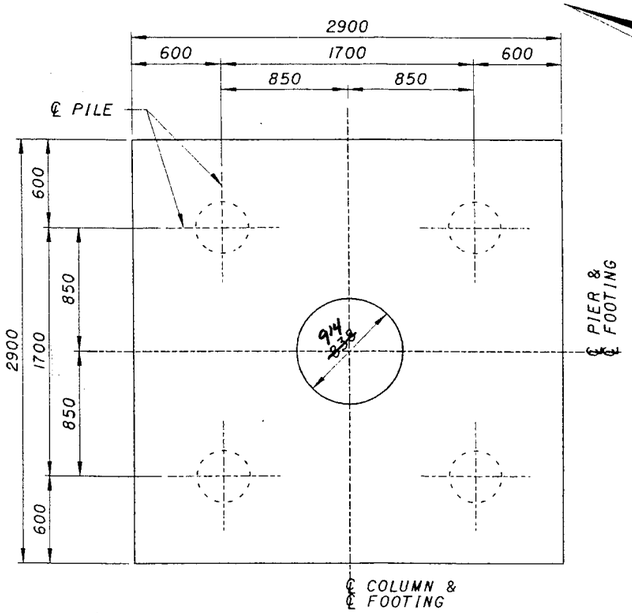
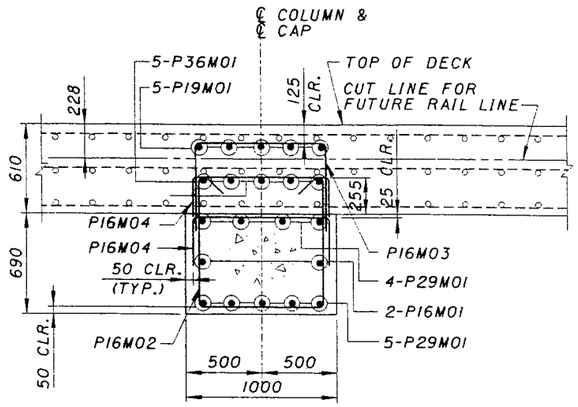
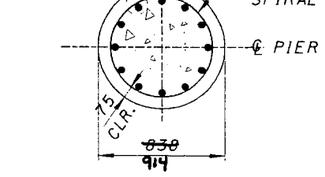


FOOTING PLAN
(FOOTING FOR COLUMN 1 SHOWN,
FOOTING FOR COLUMN 2 SIMILAR)



SECTION A / 7



SECTION B / 7

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
STREET, SUITE 2500
TI, OH 45202-2720

PREPARED	DRAWN	REVISED	DATE
JWM	JAS		12-02-99
CHECKED	REVIEWED	STRUCTURE FILE NUMBER	
VJR		3160661	

PIER 5DI-2 FOOTING PLAN AND DETAILS
BRIDGE NO. 5B
CLAY WADE BAILEY BRIDGE TO ND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X57753

7A/24

67A/125

Wed Dec 1 10:33:38 1999
12/01/99
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FORT WASHINGTON WAY 2000

City of Cincinnati

PILE QUANTITY & DRIVING RECORD
DRIVEN PILES

PIER #5D1-2

STRUCTURE BRIDGE #5B - CONTRACT #14

ITEM DESCRIPTION CAST-IN-PLACE PILING

TYPE PILE USED 350 MM CIP REINF. CONC. PILE

HAMMER MAKE DELMAG D-19 MODEL APE D19-32 E= SPT WAVE EQUATION ANALYSIS

DESIGN BRNG. 756 KN REQUIRED BRNG. 1512KN=340KIPS BLOW/FT AT REQUIRED BRNG. 50 *

PILE DRIVING INSPECTED BY DOUG MOHLER PILE QUANTITY CALC BY JIM EHRET DATE 4-11-00

PILE CONCRETE PLACING INSP. BY JIM EHRET PILE QUANTITY CHECK BY NOEL OBERT DATE 4-24-01

PILE NO.	DATE PILE DRIVEN	BLOWS PER * 12"	DATE PILE CONCRETE PLACED	(1) SPEC. TOP OF PILE ELEV.	(2) SPEC. TP ELEV.	(3) LENGTH IN LEADS	(4) LENGTH OF CUT-OFF	(5) ACTUAL LENGTH IN GROUND (3-4)	(6) ACTUAL TP ELEV. (1-5)	(7) PAY LENGTH *SEE NOTE BELOW	REMARKS	PRE DRILL HOLE DEPTH	LENGTH OF RE-BAR REQ.
83	4-11-00	51	4-11-00	483.27	N/A	85.0	9.9	75.1	408.17	75.1	VERTICAL	N/A	N/A
84	4-11-00	58	4-11-00	483.27	N/A	85.0	10.7	74.3	408.97	74.3	VERTICAL	N/A	N/A
85	4-11-00	50	4-11-00	483.27	N/A	85.0	8.5	76.5	406.77	76.5	VERTICAL	N/A	N/A
86	4-11-00	54	4-11-00	483.27	N/A	85.0	4.3	80.7	402.57	80.7	VERTICAL	N/A	N/A
87	4-10-00	79	4-11-00	483.27	N/A	85.0	3.8	81.2	402.07	81.2	VERTICAL	N/A	N/A
88	4-10-00	54	4-11-00	483.27	N/A	85.0	15.1	69.9	413.37	69.9	VERTICAL	N/A	N/A
89	4-11-00	60	4-11-00	483.27	N/A	85.0	4.5	80.5	402.77	80.5	VERTICAL	N/A	N/A
90	4-10-00	54	4-11-00	483.27	N/A	85.0	14.3	70.7	412.57	70.7	VERTICAL	N/A	N/A
*	BASED ON DYNAMIC TEST AND STROKE OF 7-7½ FT AT FUEL SETTING ON LEVEL 3												
SHEET TOTALS				ITEM NO. 88 EA.				ITEM NO. 8 608.9 L.F.					

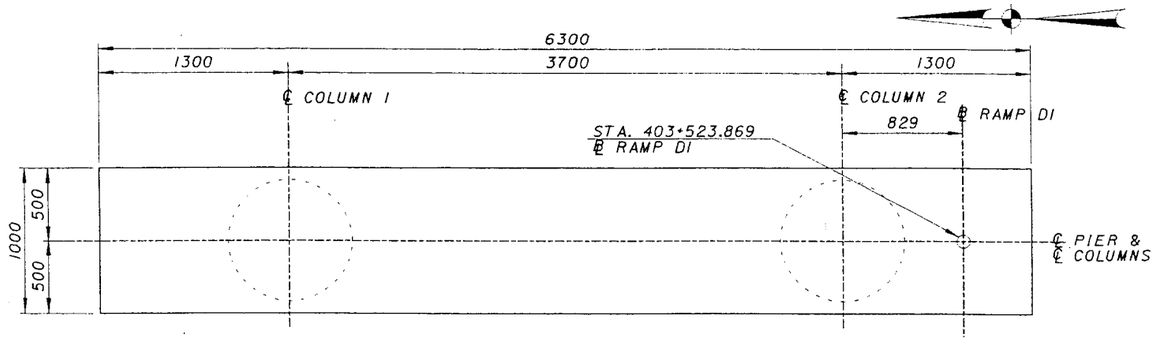
*THE PAY LENGTH IS THE ACTUAL LENGTH IN THE GROUND, EXCEPT THAT NO PAY WILL BE MADE FOR THAT LENGTH OF PILE DRIVEN BELOW THE ELEVATION WHERE SPECIFIED TIP AND/OR SPECIFIED BEARING (WHOEVER IS LOWER) WAS OBTAINED ALSO, WHEN STEEL PILES ARE SUBSTITUTED FOR CLASS 45.1 45.2 OR 70 PILING THE LOWER LIMIT FOR PAYMENT WILL BE NO LOWER THAN THE SPECIFIED TIP ELEVATION.

185.593M

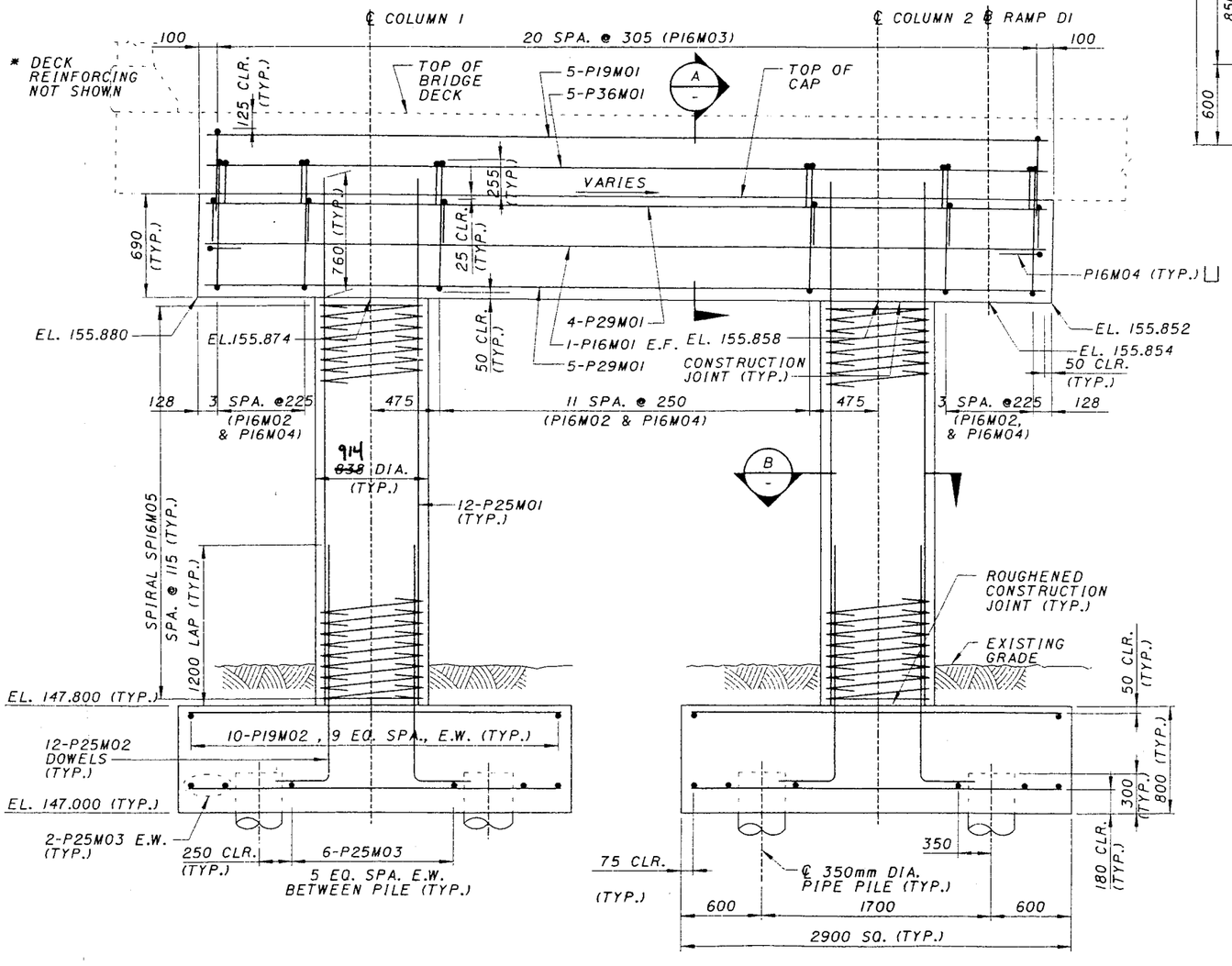
Pile Summary

Pier 5D1-2

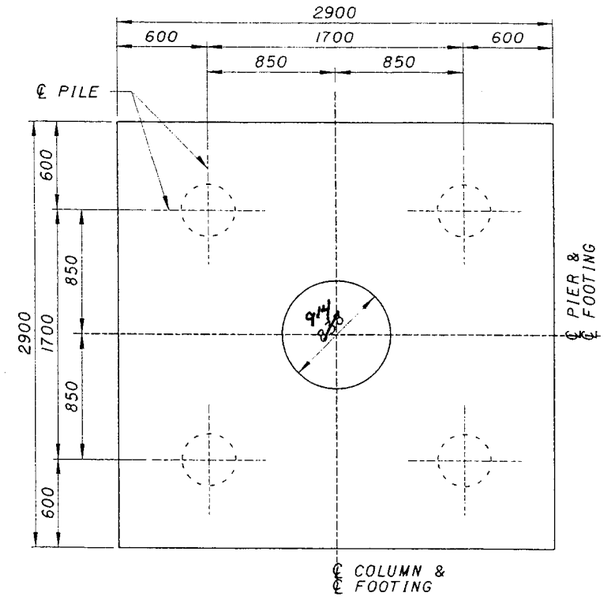
67B/125



PLAN

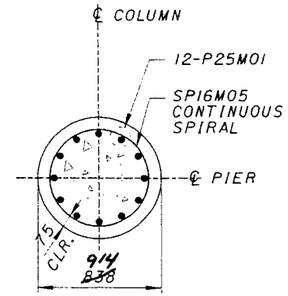


PIER 5DI-3 ELEVATION - RAMP DI

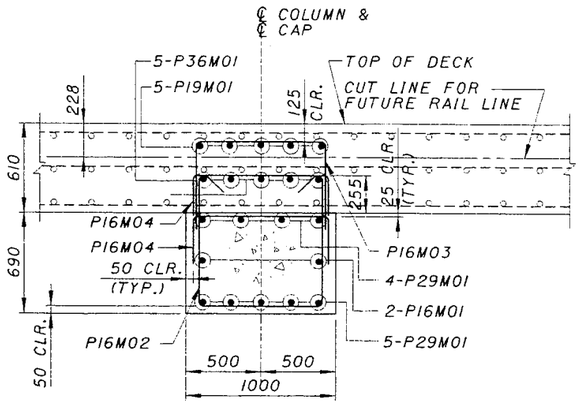


FOOTING PLAN

(FOOTING FOR COLUMN 1 SHOWN, FOOTING FOR COLUMN 2 SIMILAR)



SECTION B -



SECTION A -

NOTES:

1. SEE SHEET 5/24 FOR NOTES.
2. SEE SHEET 10C/25 FOR BAR SCHEDULE.

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2600
CINCINNATI, OH 45202-2720

REVISED	DATE
	12-02-99

STRUCTURE FILE NUMBER 316066

DRAWN	REVIEWED
JAS	

PREPARED	CHECKED
JWW	VJR

PIER 5DI-3 PLAN, ELEVATION, FOOTING & DETAILS
BRIDGE NO. 58 ID STREET
CLAY WADE BAILEY BRIDGE TO

CITY OF CINCINNATI
CONTRACT NO. 75X5753

8/24
68/125

Wed Dec 1 10:33:55 1999
12/01/99
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FORT WASHINGTON WAY 2000

City of Cincinnati

PILE QUANTITY & DRIVING RECORD (DRIVEN PILES)

Pier #5D1-3

STRUCTURE Bridge #5B - Contract #14

ITEM DESCRIPTION Cast In Place Piling

TYPE PILE USED 350 MM CIP Reinf Conc. Piling SBR WAVE

HAMMER MAKE Delmag D-19 MODEL APE D19-32 E= Equation Analysis

DESIGN BRNG. 756 kN REQUIRED BRNG. 1512 kN = 340 K/B BLOW/FT AT REQUIRED BRNG. 50 *

PILE DRIVING INSPECTED BY Doug Mohrer PILE QUANTITY CALC BY Doug Mohrer DATE 4-18-00

PILE CONCRETE PLACING INSP. BY Jim Ebert PILE QUANTITY CHECK BY Mary Obert DATE 4-24-01

PILE NO.	DATE PILE DRIVEN	BLOWS PER 12"	DATE PILE CONCRETE PLACED	(1) SPEC. TOP OF PILE ELEV.	(2) SPEC. TP ELEV.	(3) LENGTH IN LEADS	(4) LENGTH OF CUT-OFF	(5) ACTUAL LENGTH IN GROUND (3-4)	(6) ACTUAL TP ELEV. (1-5)	(7) PAY LENGTH *SEE NOTE BELOW	REMARKS	PRE DRILL HOLE DEPTH	LENGTH OF RE-BAR REQ.
91	4-17-00	55	4-18-00	483.27	N/A	85.0	16.4	68.6	414.67	68.6	VERTICAL	N/A	N/A
92	4-18-00	56	4-18-00	483.27	N/A	85.0	12.6	72.4	410.87	72.4	VERTICAL	N/A	N/A
93	4-17-00	60	4-18-00	483.27	N/A	85.0	15.2	69.8	413.47	69.8	VERTICAL	N/A	N/A
94	4-18-00	50	4-18-00	483.27	N/A	85.0	9.2	75.8	407.47	75.8	VERTICAL	N/A	N/A
95	4-17-00	85	4-18-00	483.27	N/A	85.0	8.0	77.0	406.27	77.0	VERTICAL	N/A	N/A
96	4-17-00	50	4-18-00	483.27	N/A	85.0	12.5	72.5	410.77	72.5	VERTICAL	N/A	N/A
97	4-18-00	60	4-18-00	483.27	N/A	85.0	8.1	76.9	406.37	76.9	VERTICAL	N/A	N/A
98	4-17-00	50	4-18-00	483.27	N/A	85.0	14.5	70.5	412.77	70.5	VERTICAL	N/A	N/A
*	BASED ON DYNAMIC TEST AND STROKE OF 7-8 1/2 FT AT FUEL SETTING ON LEVEL 3												
SHEET TOTALS				ITEM NO. 88 EA.				ITEM NO. 8 5835 L.F.					

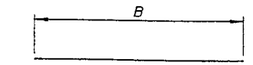
*THE PAY LENGTH IS THE ACTUAL LENGTH IN THE GROUND, EXCEPT THAT NO PAY WILL BE MADE FOR THAT LENGTH OF PILE DRIVEN BELOW THE ELEVATION WHERE SPECIFIED TIP AND/OR SPECIFIED BEARING (WHOEVER IS LOWER) WAS OBTAINED ALSO, WHEN STEEL PILES ARE SUBSTITUTED FOR CLASS 45.1 45.2 OR 70 PILING THE LOWER LIMIT FOR PAYMENT WILL BE NO LOWER THAN THE SPECIFIED TIP ELEVATION.

177.851 M

Pier 5D1-3 Pile Summary

68A
125

MARK	NUMBER	LENGTH (mm)	WEIGHT (kg)	TYPE	DIMENSIONS B	C	D	E	INC.	DEGREES P	DEGREES R	DESCRIPTION
					PIER 5D-4							
P16M01	6	9180		13	1525	3835	3835			9°	9°	CAP
P16M02	6	2720		11	1500	650	650					CAP
P16M03	12	2140		13	870	675	675			99°	90°	CAP
P16M04	18	3220 TO 4040		11	1500	900 TO 1310	900 TO 1310		51			CAP
P16M05	34	2720		11	1500	650	650					CAP
P16M06	18	2095 TO 2915		11	375	900 TO 1310	900 TO 1310		51			CAP
P16M07	34	1595		11	375	650	650					CAP
SP16M08	1 /1	226 390		39	115	5760	1375					COLUMN
P16M09	18	8370		1	8370							PEDESTAL
P16M10	16	1690		11	550	610	610					PEDESTAL
P16M11	16 /1	4084 TO 4420		11	1500	1332 TO 1500	1332 TO 1500		24			CAP
P16M12	16	2960 TO 3295		11	375	1332 TO 1500	1332 TO 1500		24			CAP
P19M01	19	4050		1	4050							FOOTING /1
P19M02	14	5500		1	5500							FOOTING
P19M03	72	2576		1	2576							PEDESTAL
P19M04	34	1340		11	520	450	450					PEDESTAL
P29M01	4	9050		1	9050							CAP
P29M02	2	5400		1	5400 /1							CAP /1
P32M01	19	4050		1	4050							FOOTING
P32M02	16	5500		1	5500							FOOTING
P36M01	25	6895		10	6400	600						COLUMN /1
P36M02	25	3855		10	3255	600						FOOTING
P36M03	6	9940		18	9000	325						CAP
P36M04	6	9000		1	9000							CAP



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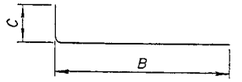

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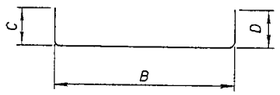

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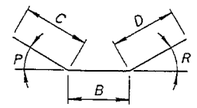

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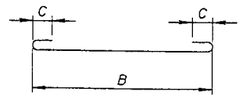

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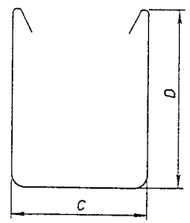
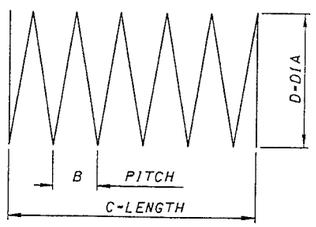
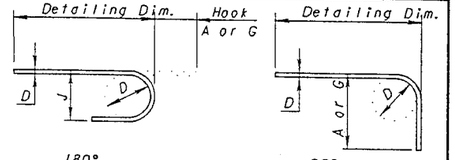


TYPE 45



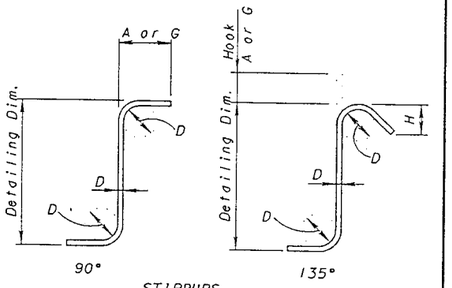
TYPE 39

STANDARD HOOK DETAILS



180° 90°

BAR SIZE		180° HOOKS A OR G	180° HOOKS J	90° HOOKS A OR G
#10	60	125	80	150
#13	80	150	105	200
#16	95	175	130	250
#19	115	200	155	300
#22	135	250	180	375
#25	155	275	205	425
#29	240	375	300	475
#32	275	425	335	550
#36	305	475	375	600
#43	465	675	550	775
#57	610	925	725	1050



90° 135°

STIRRUPS
(TIES SIMILAR)

RECOMMENDED STIRRUP & TIE HOOK DIMENSIONS

BAR SIZE	D	90° HOOKS A or G	135° HOOKS A or G	135° HOOKS H *
#10	40	105	105	65
#13	50	115	115	80
#16	65	155	140	95
#19	115	305	205	115
#22	135	355	230	135
#25	155	410	270	155

NOTES:

1. * DIMENSION IS APPROXIMATE.
2. HOOK STYLES DETAILED ON THIS SHEET ARE FOR ILLUSTRATION ONLY.
3. STANDARD BEND AND HOOK DIMENSIONS ARE NOT SHOWN, USE LENGTHS IN THESE TABLES FOR A OR G
4. ALL DIMENSIONS ARE IN MILLIMETERS (mm). EXCEPT AS NOTED.
5. ALL DIMENSIONS ARE OUT-TO-OUT.

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM /1	REVISED NUMBER	12-22-99	VJR

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
112 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2120

REVISED 12-22-99
STRUCTURE FILE NUMBER 316066

DRAWN JAS
CHECKED TOM
PREPARED JWH
REVIEWED

BAR SCHEDULE - PIER 5D-4
BRIDGE NO 'B SECOND STREET
CLAY WADE BAILEY BRIDG

CITY OF CINCINNATI
CONTRACT NO. 75X57753

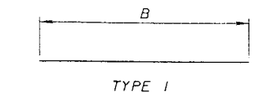
9

69
125

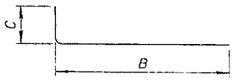
ADDENDUM NO. 1
DEC. 22, 1999

MARK	NUMBER	LENGTH (mm)	WEIGHT (kg)	TYPE	DIMENSIONS B	C	D	E	INC.	DEGREES P	DEGREES R	DESCRIPTION
PIER 5D-5, 5D-6 AND 5D-7												
P16M01	6	9300		1	9300							CAP
P16M02	96	2890		45		900	1035					CAP
P16M03	93	1940		11	900	560	560					CAP
P16M04	198	1120		11	900	150	150					CAP
SP16M05	2	169 130		39	115	8850	688					PIER 5D-5
SP16M05	2	160 680		39	115	8430	688					PIER 5D-6
SP16M05	2	154 340		39	115	8000	688					PIER 5D-7
P19M01	15	9300		1	9300							CAP
P19M02	120	2750		1	2750							FOOTING
P25M01	24	9620		1	9620							PIER 5D-5
P25M01	24	9190		1	9620							PIER 5D-6
P25M01	24	8770		1	9620							PIER 5D-7
P25M02	72	2050		10	1770	345						FOOTING
P25M03	120	2750		1	2750							FOOTING
P29M01	27	9300		1	9300							CAP
P36M01	15	9300		1	9300							CAP

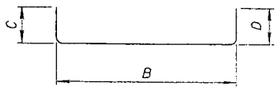
NOTE: THE NUMBER OF BARS SHOWN IN THE TABLE IS THE TOTAL OF PIERS 5D-5, 5D-6 AND 5D-7 UNLESS NOTED OTHERWISE, EACH PIER HAS AN EQUAL NUMBER OF BARS.



TYPE 1



TYPE 10



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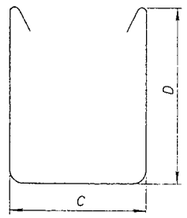

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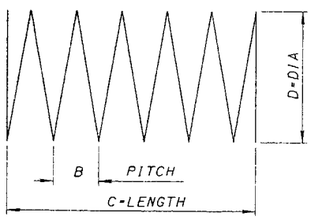
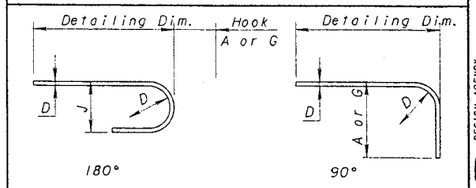
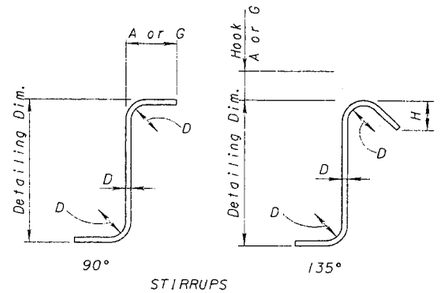


TYPE 39

STANDARD HOOK DETAILS



BAR SIZE		180° HOOKS A OR G	180° HOOKS J	90° HOOKS A OR G
#10	60	125	80	150
#13	80	150	105	200
#16	95	175	130	250
#19	115	200	155	300
#22	135	250	180	375
#25	155	275	205	425
#29	240	375	300	475
#32	275	425	335	550
#36	305	475	375	600
#43	465	675	550	775
#57	610	925	725	1050



STIRRUPS
(TIES SIMILAR)

RECOMMENDED STIRRUP & TIE HOOK DIMENSIONS

BAR SIZE	D	90° HOOKS A or G	135° HOOKS A or G	135° HOOKS H *
#10	40	105	105	65
#13	50	115	115	80
#16	65	155	140	95
#19	115	305	205	115
#22	135	355	230	135
#25	155	410	270	155

NOTES:

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2. HOOK STYLES DETAILED ON THIS SHEET ARE FOR ILLUSTRATION ONLY.
3. STANDARD BEND AND HOOK DIMENSIONS ARE NOT SHOWN, USE LENGTHS IN THESE TABLES FOR A OR G
4. ALL DIMENSIONS ARE IN MILLIMETERS (mm), EXCEPT AS NOTED.
5. ALL DIMENSIONS ARE OUT-TO-OUT.

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 C STREET, SUITE 2500
CINCINNATI, OH 45202-2720

DATE REVISED 12-02-99
STRUCTURE FILE NUMBER 3160661
DRAWN JAS
REVIEWED
PREPARED JWM
CHECKED TOM

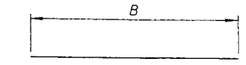
BAR SCHEDULE - PIER 5D-5 TO PIER 5D-7
BRIDGE NO. 58
CLAY WADE BAILEY BRIDGE TO
2ND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

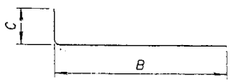
10/24

70/125

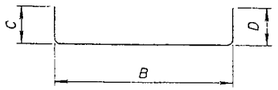
MARK	NUMBER	LENGTH (mm)	WEIGHT (kg)	TYPE	DIMENSIONS B	C	D	E	INC.	DEGREES P	DEGREES R	DESCRIPTION
PIER 5D1-1												
P16M01	10	9960		1	9960							CAP
P16M02	65	2890		45		900	1035					CAP
P16M03	63	1940		11	900	560	560					CAP
P16M04	132	1120		11	900	150	150					CAP
SP16M05	1	152 220		39	115	7940	688					COLUMN
SP16M06	1	156 450		39	115	8140	688					COLUMN
SP16M07	1	160 680		39	115	8365	688					COLUMN
SP16M08	1	164 900		39	115	8645	688					COLUMN
P19M01	10	9960		1	9960							CAP
P19M02	80	2750		1	2750							FOOTING
P25M01	12	8700		1	8700							COLUMN
P25M02	12	8900		1	8900							COLUMN
P25M03	12	9125		1	9125							COLUMN
P25M04	12	9400		1	9400							COLUMN
P25M05	48	2050		10	1770	345						FOOTING
P25M06	80	2750		1	2750							FOOTING
P29M01	18	9960		1	9960							CAP
P36M01	10	9960		1	9960							CAP



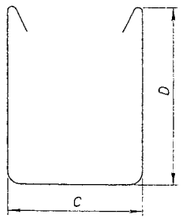
TYPE 1



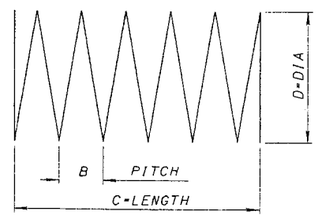
TYPE 10



TYPE 11

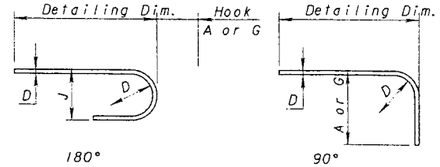


TYPE 45



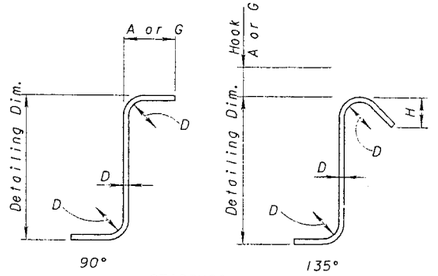
TYPE 39

STANDARD HOOK DETAILS



180° 90°

BAR SIZE		180° HOOKS A OR G	180° HOOKS J	90° HOOKS A OR G
#10	60	125	80	150
#13	80	150	105	200
#16	95	175	130	250
#19	115	200	155	300
#22	135	250	180	375
#25	155	275	205	425
#29	240	375	300	475
#32	275	425	335	550
#36	305	475	375	600
#43	465	675	550	775
#57	610	925	725	1050



90° 135°

STIRRUPS
(TIES SIMILAR)

RECOMMENDED STIRRUP & TIE HOOK DIMENSIONS

BAR SIZE	D	90° HOOKS A or G	135° HOOKS A or G	135° HOOKS H *
#10	40	105	105	65
#13	50	115	115	80
#16	65	155	140	95
#19	115	305	205	115
#22	135	355	230	135
#25	155	410	270	155

NOTES:

1. * DIMENSION IS APPROXIMATE.
2. HOOK STYLES DETAILED ON THIS SHEET ARE FOR ILLUSTRATION ONLY.
3. STANDARD BEND AND HOOK DIMENSIONS ARE NOT SHOWN, USE LENGTHS IN THESE TABLES FOR A OR G
4. ALL DIMENSIONS ARE IN MILLIMETERS (mm), EXCEPT AS NOTED.
5. ALL DIMENSIONS ARE OUT-TO-OUT.

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET SUITE 2500
CINCINNATI, OH 45202-2720

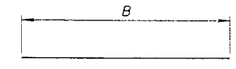
DATE 12-02-99
REVISED
STRUCTURE FILE NUMBER 3160661
DRAWN JAS
REVIEWED
PREPARED JWM
CHECKED TOM

BAR SCHEDULE - PIER 5D1-1
BRIDGE NO. 5B
CLAY WADE BAILEY BRIDGE TO : 1D STREET

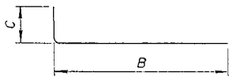
CITY OF CINCINNATI
CONTRACT NO. 75X5753

10A/24
70A/125

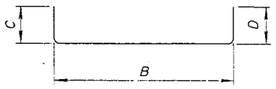
MARK	NUMBER	LENGTH (mm)	WEIGHT (kg)	TYPE	DIMENSIONS B	C	D	E	INC.	DEGREES P	DEGREES R	DESCRIPTION
PIER 5D1-2												
P16M01	2	9650		1	9650							CAP
P16M02	35	2890		45		900	1035					CAP
P16M03	32	1940		11	900	560	560					CAP
P16M04	72	1120		11	900	150	150					CAP
SP16M05	2	158 560		39	115	8243	688					COLUMN
P19M01	5	9650		1	9650							CAP
P19M02	40	2750		1	2750							FOOTING
P25M01	24	9000		1	9000							COLUMN
P25M02	24	2050		10	1770	345						FOOTING
P25M03	40	2750		1	2750							FOOTING
P29M01	9	9650		1	9650							CAP
P36M01	5	9650		1	9650							CAP



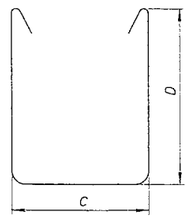
TYPE 1



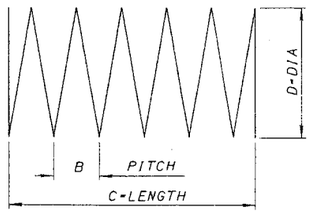
TYPE 10



TYPE 11

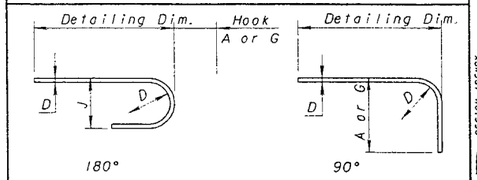


TYPE 45

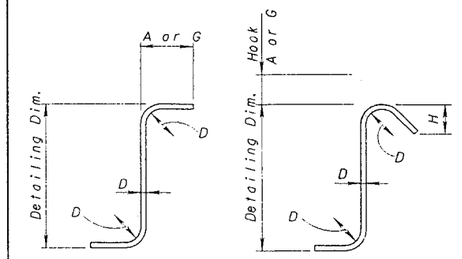


TYPE 39

STANDARD HOOK DETAILS



BAR SIZE		180° HOOKS A OR G	180° HOOKS J	90° HOOKS A OR G
#10	60	125	80	150
#13	80	150	105	200
#16	95	175	130	250
#19	115	200	155	300
#22	135	250	180	375
#25	155	275	205	425
#29	240	375	300	475
#32	275	425	335	550
#36	305	475	375	600
#43	465	675	550	775
#57	610	925	725	1050



STIRRUPS
(TIES SIMILAR)

RECOMMENDED STIRRUP & TIE HOOK DIMENSIONS

BAR SIZE	D	90° HOOKS A or G	135° HOOKS A or G	135° HOOKS H *
#10	40	105	105	65
#13	50	115	115	80
#16	65	155	140	95
#19	115	305	205	115
#22	135	355	230	135
#25	155	410	270	155

NOTES:

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4. ALL DIMENSIONS ARE IN MILLIMETERS (mm), EXCEPT AS NOTED.
5. ALL DIMENSIONS ARE OUT-TO-OUT.

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
4 STREET, SUITE 300
MAI, OH 45202 2120

DATE 12-02-99
REVISED
STRUCTURE FILE NUMBER 3160661
DRAWN JAS
REVIEWED
PREPARED JWM
CHECKED TOM

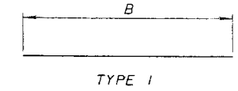
BAR SCHEDULE - PIER 5D1-2
BRIDGE NO. 5' :OND STREET
CLAY WADE BAILEY BRIDGE 1:

CITY OF CINCINNATI
CONTRACT NO. 75X5753

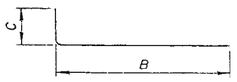
70B
125

Wed Dec 1 11:59:31 1999
12/01/99
i:\fww\contracts\14\struct\bridge5b\5bpr1414.dgn i:\BYERS_PRF\SOLUS4\PLOT\5bpr1414.prf

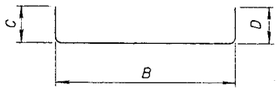
MARK	NUMBER	LENGTH (mm)	WEIGHT (kg)	TYPE	DIMENSIONS B	C	D	E	INC.	DEGREES P	DEGREES R	DESCRIPTION
PIER 5DI-3												
P16M01	2	6200		1	6200							CAP
P16M02	20	2890		45		900	1035					CAP
P16M03	21	1940		11	900	560	560					CAP
P16M04	42	1120		11	900	150	150					CAP
SP16M05	2	154 330		39	115	8075	688					COLUMN
P19M01	5	6200		1	6200							CAP
P19M02	40	2750		1	2750							FOOTING
P25M01	24	8835		1	8835							COLUMN
P25M02	24	2050		10	1770	345						FOOTING
P25M03	40	2750		1	2750							FOOTING
P29M01	9	6200		1	6200							CAP
P36M01	5	6200		1	6200							CAP



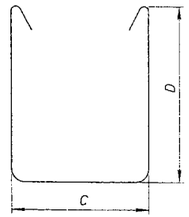
TYPE 1



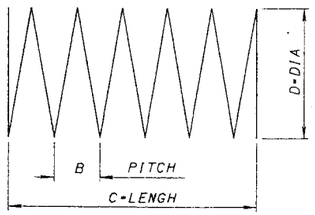
TYPE 10



TYPE 11

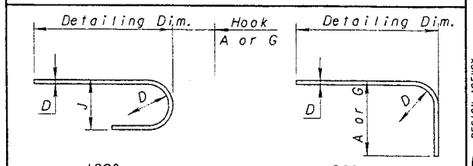


TYPE 45

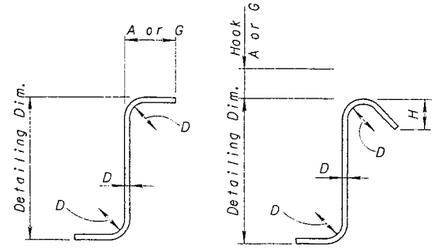


TYPE 39

STANDARD HOOK DETAILS



BAR SIZE		180° HOOKS A OR G	180° HOOKS J	90° HOOKS A OR G
#10	60	125	80	150
#13	80	150	105	200
#16	95	175	130	250
#19	115	200	155	300
#22	135	250	180	375
#25	155	275	205	425
#29	240	375	300	475
#32	275	425	335	550
#36	305	475	375	600
#43	465	675	550	775
#57	610	925	725	1050



STIRRUPS
(TIES SIMILAR)

RECOMMENDED STIRRUP & TIE HOOK DIMENSIONS

BAR SIZE	D	90° HOOKS A or G	135° HOOKS A or G	135° HOOKS H *
#10	40	105	105	65
#13	50	115	115	80
#16	65	155	140	95
#19	115	305	205	115
#22	135	355	230	135
#25	155	410	270	155

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5. ALL DIMENSIONS ARE OUT-TO-OUT.

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 TREET, SUITE 2500
CI 11, OH 45202-2120

DATE REVISED 12-02-99
STRUCTURE FILE NUMBER 3160661

DRAWN JAS
REVIEWED

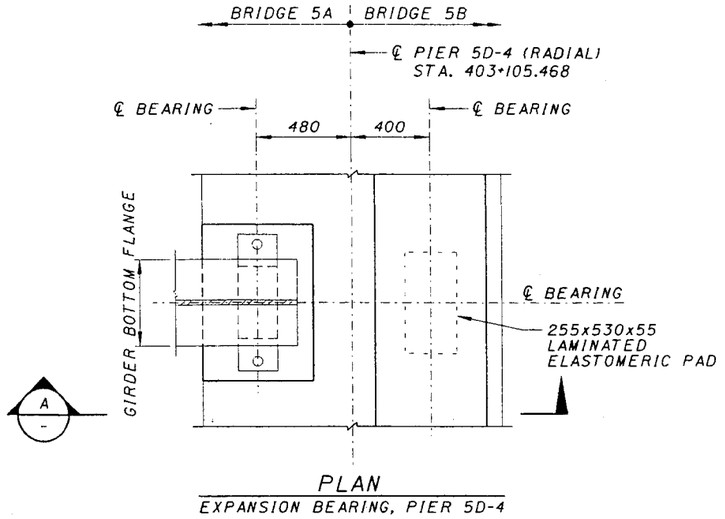
PREPARED JWM
CHECKED TOM

BAR SCHEDULE - PIER 5DI-3
BRIDGE NO. 5B NO STREET
CLAY WADE BAILEY BRIDGE TO

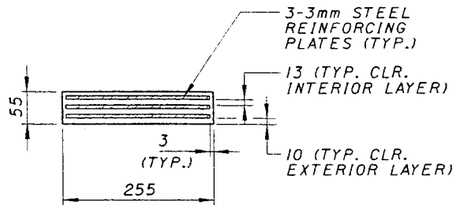
CITY OF CINCINNATI
CONTRACT NO. 75X5753

100/24

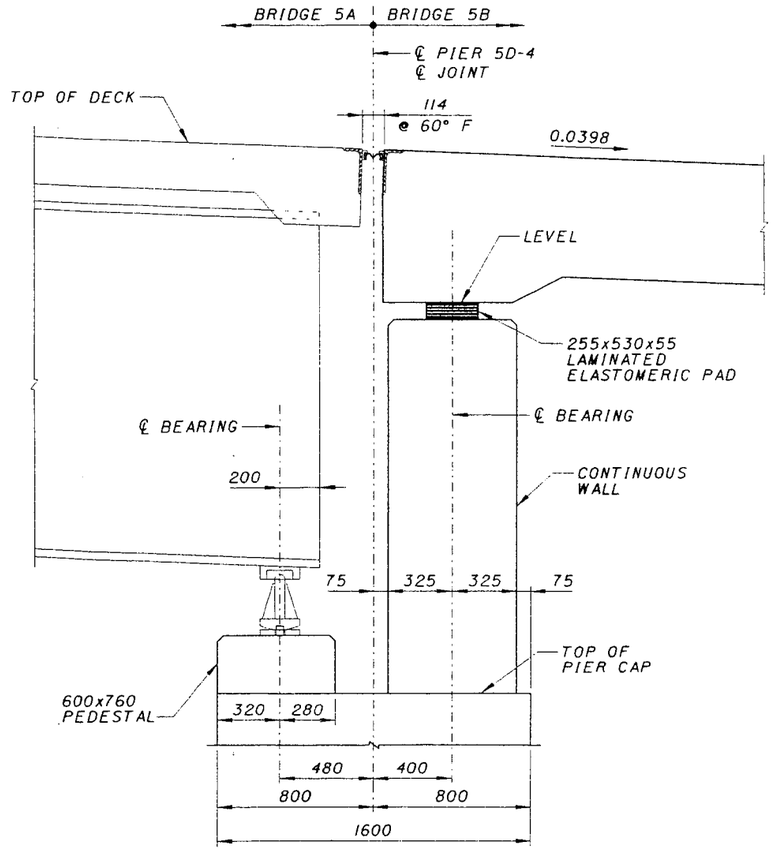
700
125



PLAN
EXPANSION BEARING, PIER 5D-4



TYPE C
EXPANSION BEARING,
PIER 5D-4



SECTION A -

NOTES:

1. SEE SHEET 114/125 FOR PIER 5D-8 BEARING DETAILS AND BEARING NOTES.

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

PREPARED	DRAWN	REVISED	DATE
JWM	JAS		12-02-99
CHECKED	REVIEWED		STRUCTURE FILE NUMBER
VJR			3160661

BEARING DETAILS
BRIDGE NO. 5B
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

11/24

71/125

Wed Dec 1 10:35:08 1999
12/01/99
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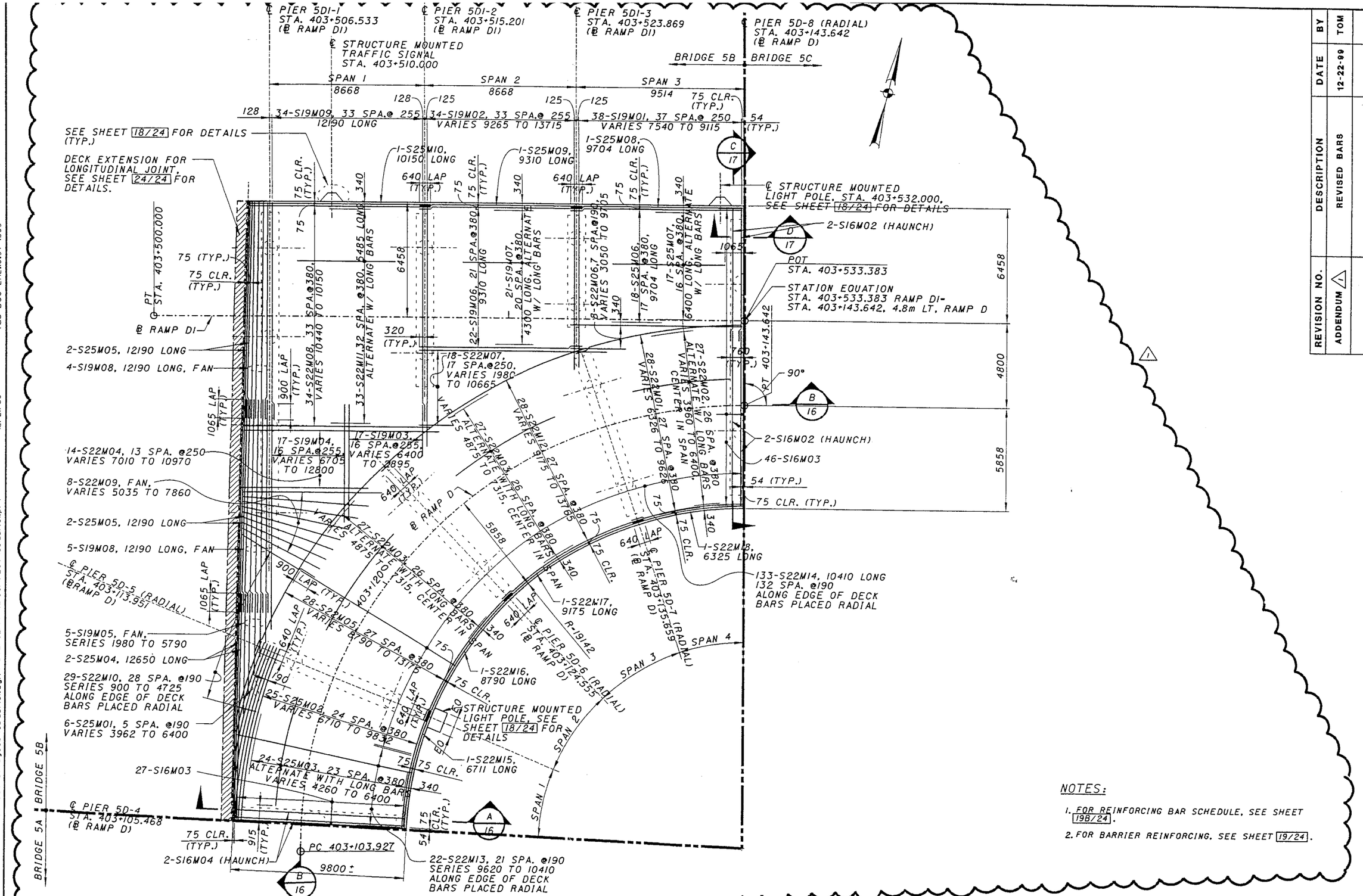

NOTES:

1. FOR REINFORCING BAR SCHEDULE, SEE SHEET 19B/24.
2. FOR BARRIER REINFORCING, SEE SHEET 19/24.

BOTTOM LAYER OF DECK REINFORCING PLAN

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REVISED BARS	12-22-99	TOM

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

DRAWN	REVISED	DATE REVISED	12-22-99
JAS	REVISED	STRUCTURE FILE NUMBER	316066 1
PREPARED TOM			
CHECKED JWH			

DECK REINFORCING PLAN, 1 OF 3
BRIDGE NO. 5B
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

13/24

73/125

ADDENDUM NO. 1
DEC. 22, 1999

12/21/99 Tue Dec 21 12:15:57 1999

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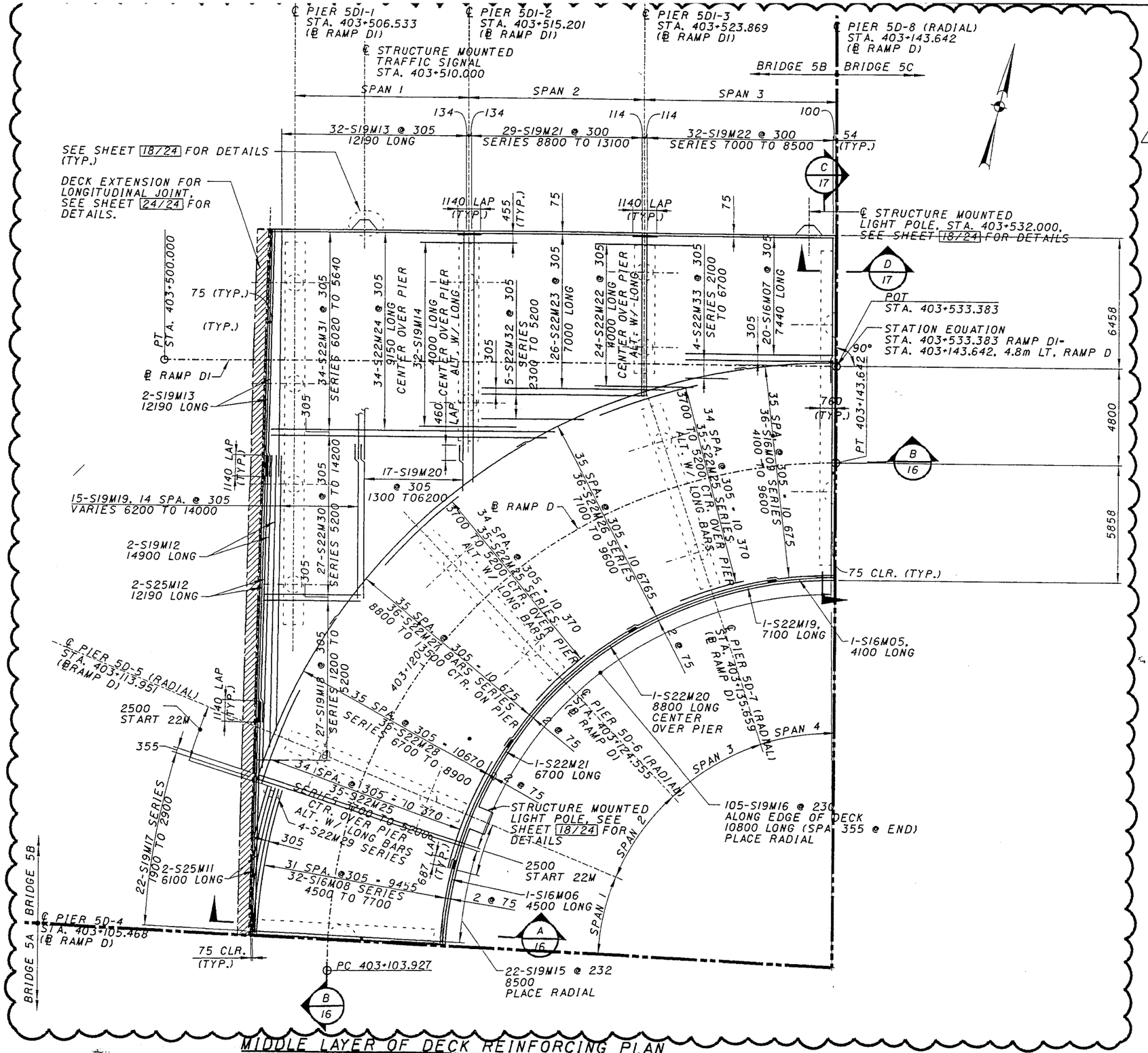

MIDDLE LAYER OF DECK REINFORCING PLAN

NOTES:

1. FOR REINFORCING BAR SCHEDULE, SEE SHEET 19A/24.

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REVISED REINFORCING	12-22-99	VJR

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720
PB

DATE REVISED 12-22-99
STRUCTURE FILE NUMBER 3160661

DRAWN JAS
CHECKED JWH
PREPARED TOM
REVIEWED
REVIEWED

DECK REINFORCING PLAN, 2 OF 3
BRIDGE NO. 5B
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

14/24

74/125

ADDENDUM NO. 1
DEC. 22, 1999

12/21/99 Tue Dec 21 12:16:27 1999

I:\fww\contracts\14\struct\bridge5b\5bdsl402.dgn:\BYERS_PRF\HP5SN\PLOT\5bdsl402.prf

℄ PIER 5DI-1
STA. 403+506.533
(℄ RAMP DI)

℄ PIER 5DI-2
STA. 403+515.201
(℄ RAMP DI)

℄ PIER 5DI-3
STA. 403+523.869
(℄ RAMP DI)

℄ PIER 5D-8 (RADIAL)
STA. 403+143.642
(℄ RAMP D)

℄ STRUCTURE MOUNTED TRAFFIC SIGNAL STA. 403+510.000

6-S19M23@305-1525 12 192 LG

BRIDGE 5B | BRIDGE 5C

SPAN 1 | SPAN 2 | SPAN 3

℄ PIER 5DI-1

6-S19M23@305-1525 12 192 LG

29-S19M23 @ 305 - 8540 12 192 LONG

20-S19M23 @ 305 - 5795 12 192 LONG

32-S19M23 @ 300 - 9300 12 192 LONG

114 | 114 | 100

75 CLR. (TYP.)

SEE SHEET 18/24 FOR DETAILS (TYP.)

DECK EXTENSION FOR LONGITUDINAL JOINT, SEE SHEET 24A/24 FOR DETAILS.

2 @ 75 (TYP.)

915 LAP (TYP.)

1-S19M23

305 | 305

301

1-S19M23

1-S19M29 5500 LONG

915 LAP (TYP.)

C 17

℄ STRUCTURE MOUNTED LIGHT POLE, STA. 403+532.000, SEE SHEET 18/24 FOR DETAILS

150

92-S16M12, S19M40, S19M41 (IN BARRIER)

D 17

POT STA. 403+533.383

STATION EQUATION STA. 403+533.383 RAMP DI= STA. 403+143.642, 4.8m LT, RAMP D

8800

PT STA. 403+500.000

75 (TYP.)

75 CLR. (TYP.)

℄ RAMP DI

35-S16M10 @ 301 ALT. W/S19M 4000 LONG, CENTER OVER PIER

57-S19M23 @ 301 - 16 856 12 192 LONG

24-S16M10 @ 301 ALT. W/S19M 4000 LONG, CENTER OVER PIER

57-S19M23 @ 301 - 16 856 12 192 LONG

51-S19M28 @ 301 - 16 856 SERIES 5500 TO 5800 LONG

6458

2-S19M23, 12 190 LONG, (FAN)

2-S19M23, 12 190 LONG

1065 LAP (TYP.)

6-S19M23@305-1525 12 192 LG

℄ RAMP D

760 (TYP.)

PT 403+143.642

B 16

4800

28-S19M23 @ 305-8540 12 192 LONG

20-S19M30 @ 305 SERIES 8300 TO 13 500 LONG

32-S19M29 @ 300 SERIES 5800 TO 8200 LONG

915 LAP (TYP.)

R-25 000

54 (TYP.)

75 CLR. (TYP.)

5858

4-S19M23, 12 190 LONG

34-S16M10 @ 305 BELOW TOP LAYER

℄ PIER 5D-5 (RADIAL) STA. 403+113.957 (℄ RAMP D)

1065 LAP (TYP.)

14-S19M23 @ 305-3965 12 192 LONG

305

R-19 140

℄ PIER 5D-7 (RADIAL) STA. 403+135.659 (℄ RAMP D)

30-S16M10 @ 301 ALT. W/S19M 4000 LONG, CENTER OVER PIER

150

39-S19M31 @ 305-3965 SERIES 5000 TO 13 700

640 LAP

2-S19M23 12 190 LONG

2-S19M23 12 190 LONG

12-S19M23 @ 305-3355 12 192 LONG

403+180

92-S16M12, S19M40, S19M41 (IN BARRIER)

105-S16M12

12-S19M32 @ 305 SERIES 1800 TO 4600

℄ PIER 5D-6 (RADIAL) STA. 403+124.555 (℄ RAMP D)

SPAN 4

SPAN 3

SPAN 2

39-S19M37 @ 305 SERIES 12 300 TO 12 600

2-S19M23 (FAN)

20-S19M24 @ 305-5795 9144 LONG

6-S19M33 @ 305 SERIES 2600 TO 5200 LONG

6-S19M35 @ 305 SERIES 5800TO 12 600 LONG

31-S16M10 ALT. W/S19M CENTER OVER PIER

2-S19M25, 12 300 LONG

915 LAP (TYP.)

20-S19M36 @ 305 SERIES 2000 TO 4500

2-S19M38 6550 LONG

STRUCTURE MOUNTED LIGHT POLE, SEE SHEET 18/24 FOR DETAILS

SPAN 1

2-S19M26 (FAN) 3500 LONG

12-S19M24 @ 305-3355 9144 LONG

EDGE OF DECK

51

℄ PIER 5D-4 STA. 403+105.468 (℄ RAMP D)

BRIDGE 5A | BRIDGE 5B

75 CLR. (TYP.)

54

A 16

PC 403+103.927

2-S19M27 (BOT.)

B 16

12-S19M34 @ 305 SERIES 1500 TO 1800

3960 | 5858

TOP LAYER OF DECK REINFORCING PLAN

NOTES:

1. FOR REINFORCING BAR SCHEDULE, SEE SHEET 19B/24.
2. LONGITUDINAL BARRIER REINFORCING NOT SHOWN. FOR BARRIER REINFORCING, SEE SHEET 18/24.

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REVISED BARS	12-22-99	TOM

DESIGN AGENCY: PARSONS BRINCKERHOFF, INC. 312 ELM STREET, SUITE 1600 CINCINNATI, OH 45202-2720

REVISED 12-22-99 | STRUCTURE FILE NUMBER 316066 1

DRAWN JAS | REVIEWED

PREPARED TOM | CHECKED JWH

DECK REINFORCING PLAN, 3 OF 3
BRIDGE NO. 5B
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

15/24

75/125

ADDENDUM NO. 1
DEC. 22, 1999

12/21/99 Tue Dec 21 12:17:39 1999

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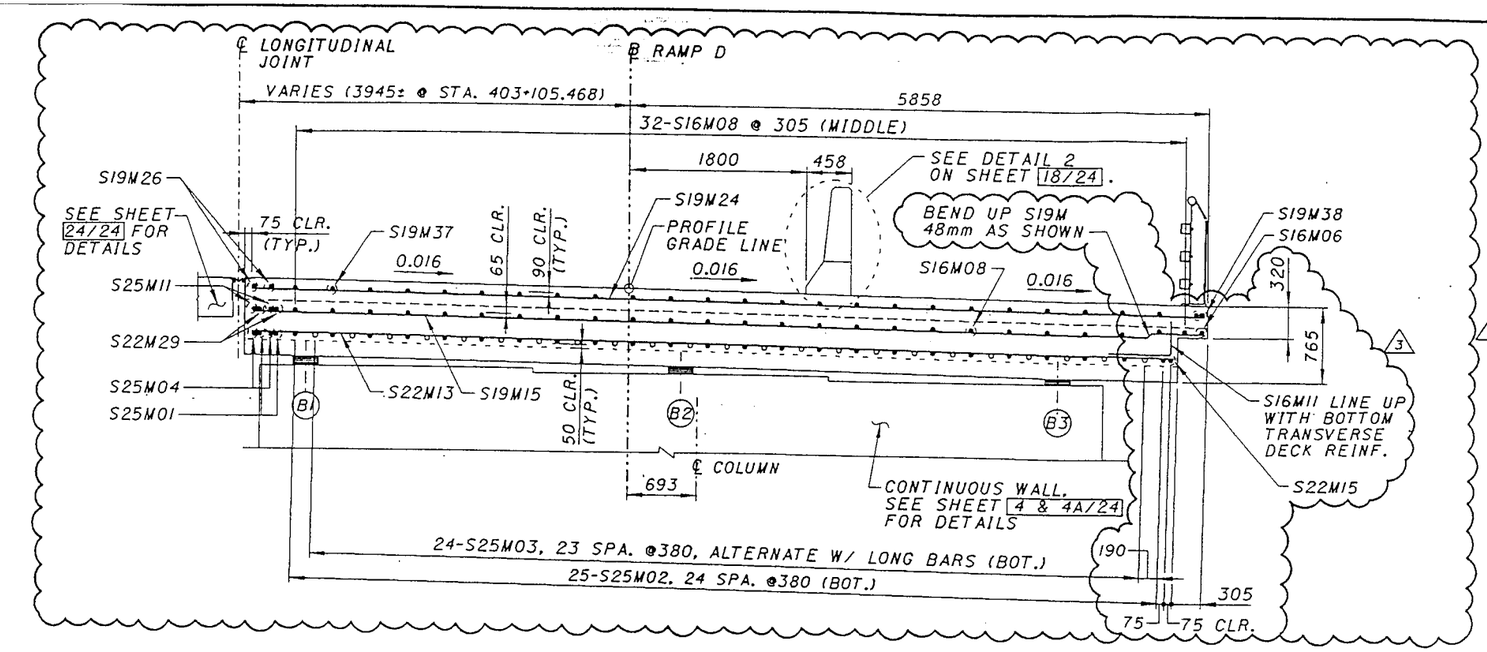
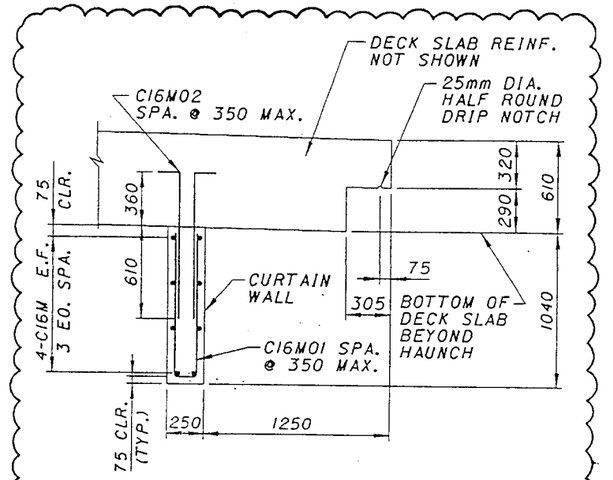
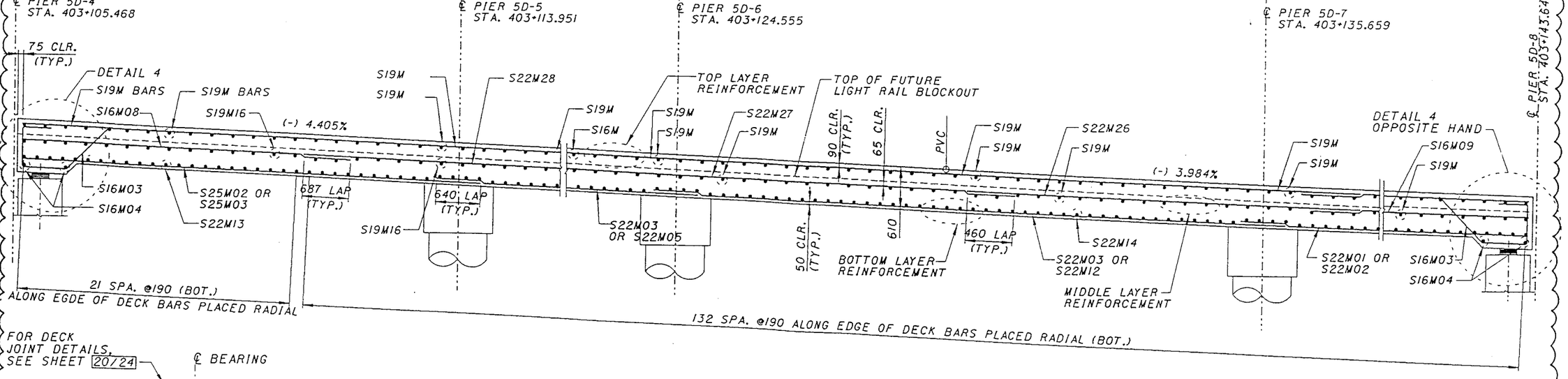


SECTION A13 A14 A15

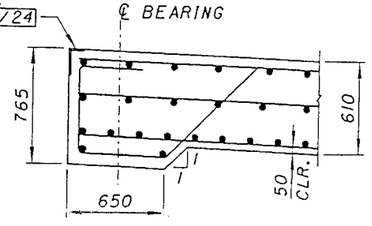


TYPICAL EDGE OF DECK DETAIL

SECTION E 17



SECTION (ALONG ℄ RAMP D) B13 B14 B15



DETAIL 4

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	ADDED CURTAIN WALL REVISED REINFORCING	12-22-99	JWM
REVISION 3	MODIFY EDGE OF DECK	3-17-00	JWM

DESIGN AGENCY: PARSONS BRINCKERHOFF, INC. 312 ELM STREET, SUITE 2500 CINCINNATI, OH 45202-2720

DRAWN JAS | REVISED 12-22-99 | PREPARED TOM | REVIEWED | CHECKED VPH | STRUCTURE FILE NUMBER 316066

DECK REINFORCING SECTIONS, 1 OF 2
BRIDGE NO. 5B
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

16/24

76/125

REVISION NO. 3
MAR. 17, 2000

03/20/00 Mon Mar 20 13:17:56 2000

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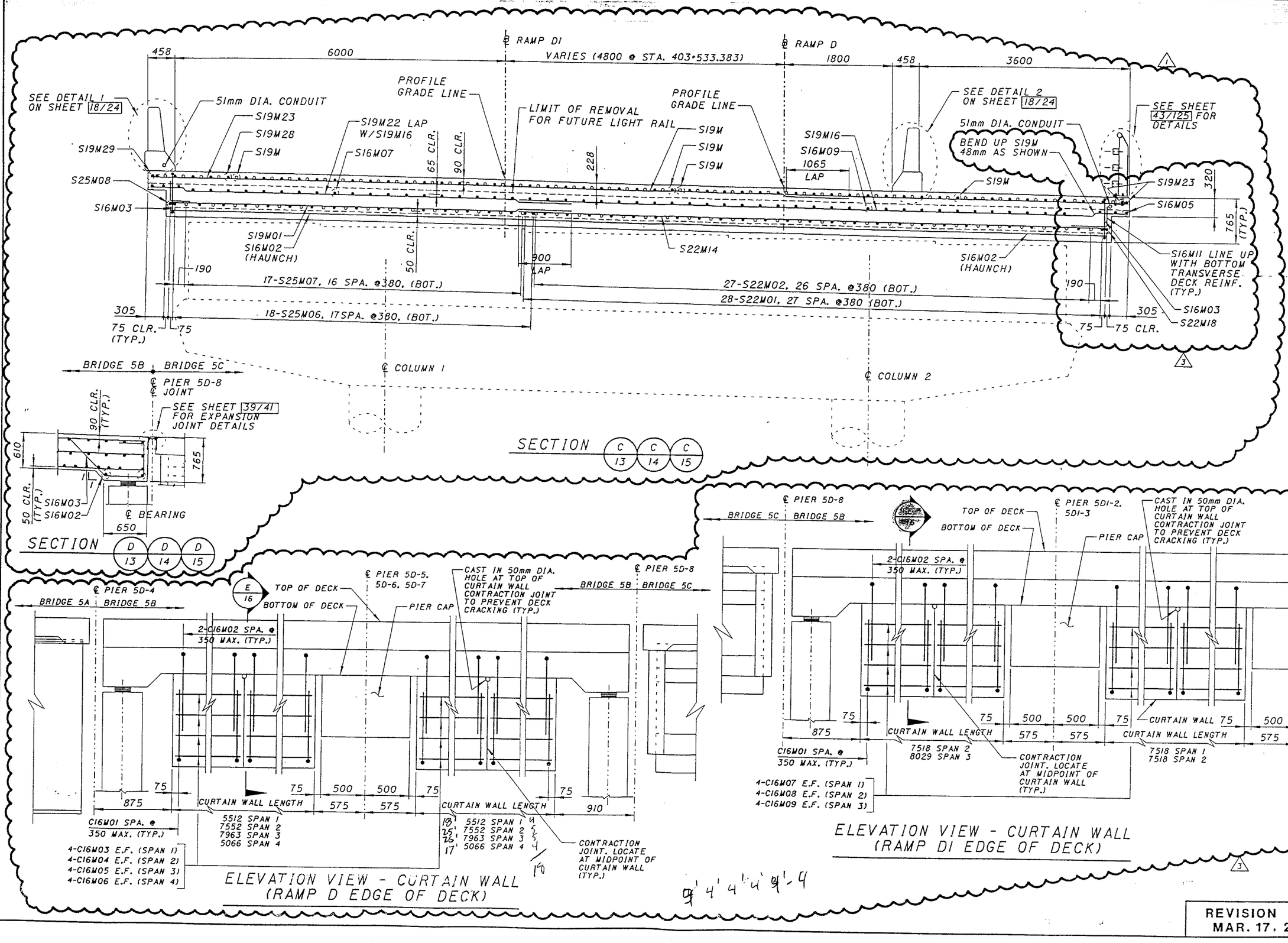

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REVISED SECTION, ADDED ELEVATIONS	12-22-99	TOM
REVISION 2	MODIFY CURTAIN WALL	3-17-00	JWM

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720
(513) 852-4900

DRAWN JAS
PREPARED TOM
CHECKED VWM
REVISED DATE 12-22-99
STRUCTURE FILE NUMBER 316066

DECK REINFORCING SECTIONS, 2 OF 2
BRIDGE NO. 5B
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

17/24

77/125

REVISION NO. 3
MAR. 17, 2000

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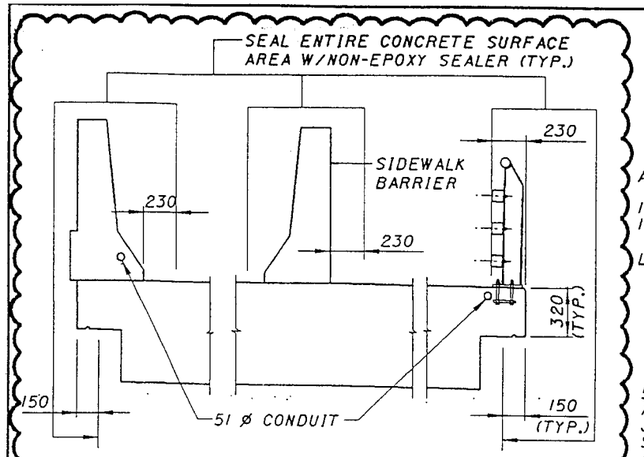
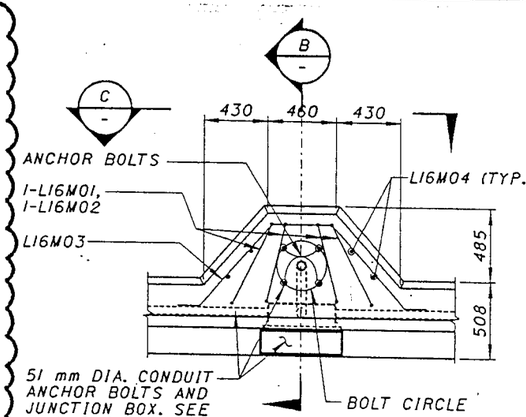
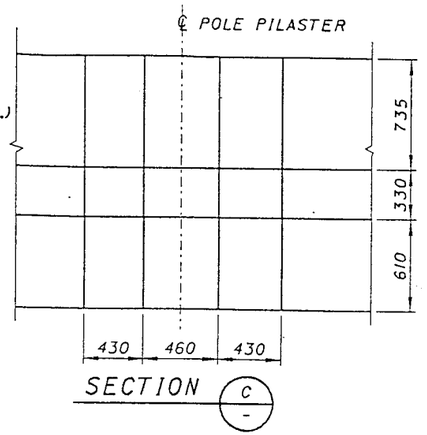
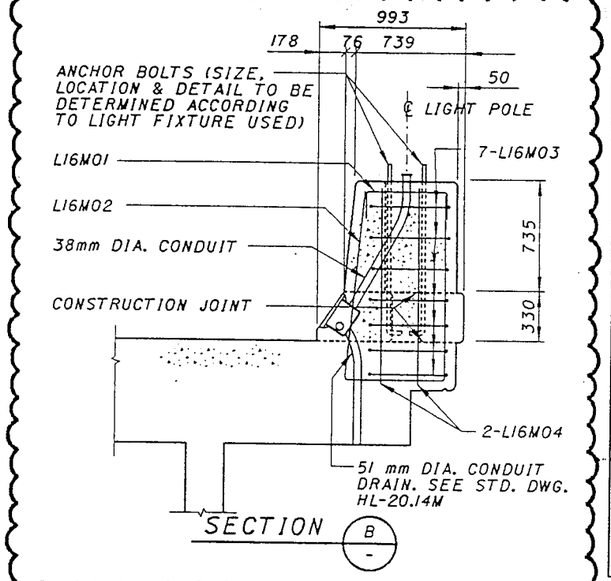


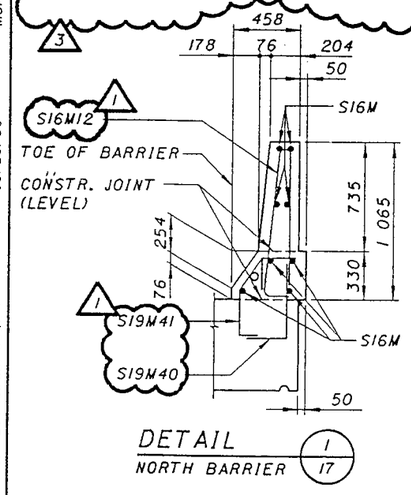
NON-EPOXY SEALER DETAIL



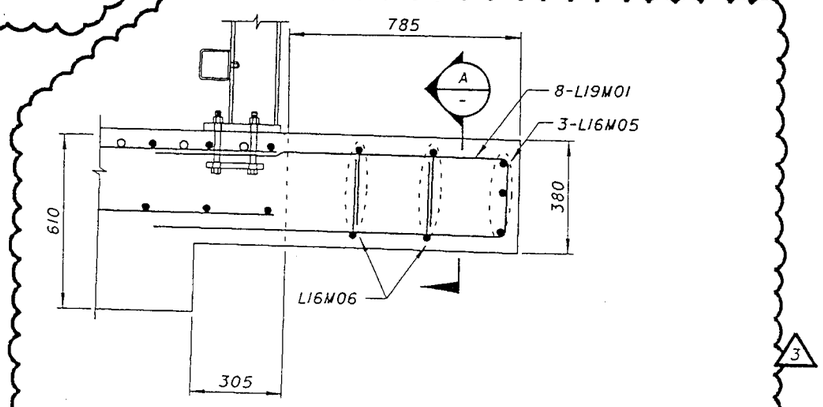


LIGHT POLE & TRAFFIC SIGNAL POLE PILASTER

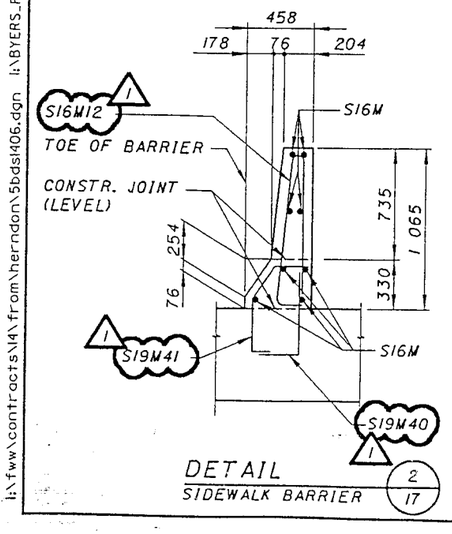




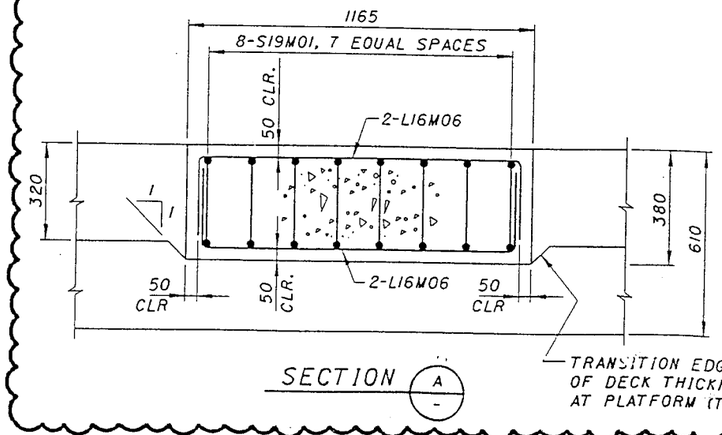
DETAIL NORTH BARRIER (1/17)



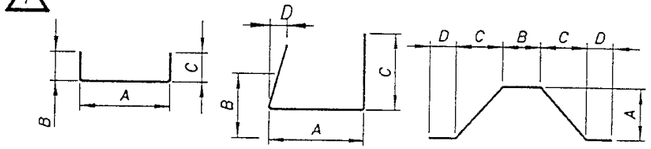
SECTION THROUGH LIGHT POLE PLATFORM
(1 REQUIRED)



DETAIL SIDEWALK BARRIER (2/17)



SECTION A -



REINFORCING STEEL LIST-POLE SUPPORTS

MARK	NO.	LENGTH	TYPE	A	B	C	D	E
LIGHT POLE PILASTER (EACH LOCATION 2-REQ'D)								
LI6M01	4	945	1	585	180	180		
LI6M02	4	3845	2	790	1525	1525	155	
LI6M03	7	2280	3	550	410	560	150	
LI6M04	4	1550	STR					
LIGHT POLE PLATFORM (1-REQ'D)								
LI6M05	3	1065	STR					
LI6M06	4	1485	1	1065	250	250		
LI9M01	8	4980	1	1860	1600	1600		

NOTES:

1. FOR LIGHT POLE PILASTER DETAILS NOT SHOWN, SEE STD. DWG. HL-20.14M.
2. 51 mm DIA. CONDUIT, ANCHOR BOLTS AND JUNCTION BOX INCLUDED WITH LIGHTING ITEMS. FOR PAYMENT, SEE STD. DWG. HL-20.14M.
3. TRAFFIC SIGNAL POLE PILASTER IS SIMILAR TO LIGHT POLE PILASTER, EXCEPT LIGHTING CONDUIT, JUNCTION BOX AND ANCHOR BOLTS WILL BE DIFFERENT SIZES.

* DECK SLAB DEPTH: THE DISTANCE SHOWN FROM TOP OF DECK SLAB TO TOP OF STEEL GIRDER WEB IS THE DESIGN DIMENSION. THE QUANTITY OF DECK CONCRETE TO BE PAID FOR SHALL BE BASED ON THIS DIMENSION, EVEN THOUGH DEVIATION FROM IT MAY BE NECESSARY BECAUSE THE TOP FLANGE OF THE BEAM MAY NOT HAVE THE EXACT CAMBER OR CONFORMATION REQUIRED TO PLACE IT PARALLEL TO THE FINISHED GRADE.

REVISION NO.	DESCRIPTION	DATE	BY
2 ADDENDUM	REVISED DECK THICKNESS AND BAR LIST	12-22-99	VJR
1 REVISION	MODIFY EDGE OF DECK	3-17-00	JWM

DESIGN AGENCY: PARSONS BRINCKERHOFF, INC. 312 ELM STREET, SUITE 2500 CINCINNATI, OH 45202-2720

REVISED DATE 12-22-99 | DRAWN JAS | PREPARED JWM
STRUCTURE FILE NUMBER 3/60661 | REVIEWED TOM | CHECKED TOM

DECK DETAILS
BRIDGE NO. 5B
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

18/24

78/125

REVISION NO. 3
MAR. 17, 2000

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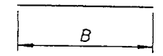
MARK	NUMBER	LENGTH (mm)	TYPE	DIMENSIONS (mm) B	C	D	E	F	WEIGHT (kg)	REMARK
BOTTOM LAYER										
S16M02	4	8830	1						54.82	
S16M03	73	1560	25	630	550	155	155		176.74	
S16M04	2	9700	1						30.11	
S16M11	261	875	10	305	610				354.44	
S19M01	38	7235 TO 8810 INCR. 42	1	7235 TO 8810 INCR. 42					681.35	3
S19M02	34	8960 TO 13410 INCR. 135	1	8960 TO 13410 INCR. 135					849.95	
S19M03	17	2895 TO 6400 INCR. 219	1	2895 TO 6400 INCR. 219					186.91	
S19M04	17	6705 TO 12800 INCR. 380	1	6705 TO 12800 INCR. 380					392.50	
S19M05	5	1980 TO 5790 INCR. 952	1	1980 TO 5790 INCR. 952					52.10	FAN
S19M06	22	9310	1	9310					457.77	
S19M07	21	4300	1	4300					201.82	
S19M08	9	12190	1	12190					245.20	FAN
S19M09	34	11885	1	11885					903.14	3
S22M01	28	6326 TO 9626 INCR. 122	1	6326 TO 9626 INCR. 122					703.80	BEND IN FIELD
S22M02	27	3960 TO 6400 INCR. 94	1	3960 TO 6400 INCR. 94					440.79	BEND IN FIELD
S22M03 (2 SETS)	27	4875 TO 7315 INCR. 94	1	4875 TO 7315 INCR. 94					1037.44	BEND IN FIELD
S22M04	14	7010 TO 10970 INCR. 305	1	7010 TO 10970 INCR. 305					410.26	BEND IN FIELD
S22M05	28	8790 TO 13175 INCR. 162	1	8796 TO 13175 INCR. 162					969.43	BEND IN FIELD
S22M06	8	3050 TO 9705 INCR. 950	1	3050 TO 9704 INCR. 950					174.62	
S22M07	18	1980 TO 10665 INCR. 510	1	1980 TO 10665 INCR. 510					365.69	
S22M08	34	10150 TO 10440 INCR. 9	1	10150 TO 10440 INCR. 9					1095.36	
S22M09	8	5035 TO 7860 INCR. 404	1	5035 TO 7860 INCR. 404					154.38	FAN
S22M10	29	900 TO 4725 INCR. 136	1	900 TO 4725 INCR. 136					256.81	

MARK	NUMBER	LENGTH (mm)	TYPE	DIMENSIONS (mm) B	C	D	E	F	WEIGHT (kg)	REMARK
S22M11	33	5.485	1	5.485					550.62	
S22M12	28	9175 TO 13765 INCR. 170	1	9175 TO 13765 INCR. 170					1011.95	BEND IN FIELD
S22M13	22	9315 TO 10105 INCR. 38	1	9315 TO 10105 INCR. 38					649.83	3
S22M14	133	10105	1	10105					4088.34	
S22M15	1	6711	1	6711					20.41	BEND IN FIELD
S22M16	1	8790	1	8790					26.74	BEND IN FIELD
S22M17	1	9175	1	9175					27.91	BEND IN FIELD
S22M18	1	6325	1	6325					19.24	BEND IN FIELD
			1							
S25M01	6	3962 TO 6400 INCR. 488	4	3962 TO 6400 INCR. 488	28335 TO 29285 INCR. 19				144.06	
S25M02	25	6710 TO 9832 INCR. 130	4	6710 TO 9832 INCR. 130	19215 TO 28335 INCR. 380				854.64	
S25M03	24	4260 TO 6400 INCR. 93	4	4260 TO 6400 INCR. 93	19215 TPO 27955 INCR. 380				529.20	
S25M04	2	12650	1	12650					100.52	
S25M05	4	12190	1	12190					193.72	
S25M06	18	9704	1	9704					693.97	
S25M07	17	6400	1	6400					432.26	
S25M08	1	9704	1	9704					38.55	
S25M09	1	9310	1	9310					36.99	
S25M10	1	10150	1	10150					40.33	

BAR TYPES



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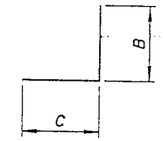

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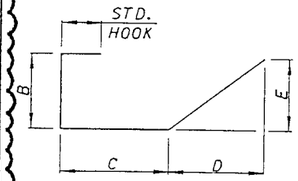

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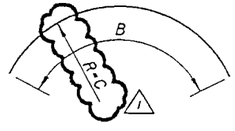


TYPE 4

NOTES:

1. * DIMENSION IS APPROXIMATE.
2. HOOK STYLES DETAILED ON THIS SHEET ARE FOR ILLUSTRATION ONLY.
3. STANDARD BEND AND HOOK DIMENSIONS ARE NOT SHOWN. USE LENGTHS IN THESE TABLES FOR A OR G
4. ALL DIMENSIONS ARE IN MILLIMETERS (mm). EXCEPT AS NOTED.
5. ALL DIMENSIONS ARE OUT-TO-OUT.
6. ALL REINFORCING STEEL SHALL BE EPOXY COATED WITH MINIMUM YIELD STRENGTH OF 400MPa.

REVISION NO.	DESCRIPTION	DATE	BY
1 ADDENDUM	REVISED BAR SCHEDULE	12-22-99	TOM
3 REVISION	ADD BAR	3-17-00	JWM

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2300
CINCINNATI, OH 45202-2720

REVISED 12-22-99 DATE
STRUCTURE FILE NUMBER 316066

DRAWN JAS
PREPARED TOM
REVIEWED
CHECKED VPH

BAR SCHEDULE DECK - 1 OF 3
BRIDGE NO. 98
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

19/24

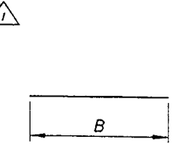
79/125

REVISION NO. 3
MAR. 17, 2000

MARK	NUMBER	LENGTH (mm)	TYPE	DIMENSIONS (mm) B	C	D	E	F	WEIGHT (kg)	REMARK
MIDDLE LAYER										
S16M05	1	4100	1	4100					6.36	
S16M06	1	4500	1	4500					6.98	
S16M07	20	7440	1	7440					230.94	
S16M08	32	4500 TO 7700 INCR. 103	1	4500 TO 7700 INCR. 103					302.95	
S16M09	36	4100 TO 9600 INCR. 157	1	4100 TO 9600 INCR. 157					382.72	
S19M12	2	14900	1	14900					66.60	
S19M13	34	12190	1	12190					926.32	
S19M14	32	4000	1	4000					286.08	
S19M15	22	8500	1	8500					417.95	
S19M16	105	10800	1	10800					2534.49	
S19M17	22	1900 TO 2900 INCR. 48	1	1900 TO 2900 INCR. 48					118.01	
S19M18	27	1200 TO 5200 INCR. 154	1	1200 TO 5200 INCR. 154					193.10	
S19M19	15	6200 TO 14000 INCR. 557	1	6200 TO 14000 INCR. 557					338.60	
S19M20	17	1300 TO 6200 INCR. 306	1	1300 TO 6200 INCR. 306					142.48	
S19M21	29	8800 TO 13100 INCR. 154	1	8800 TO 13100 INCR. 154					709.72	
S19M22	32	7000 TO 8500 INCR. 48	1	7000 TO 8500 INCR. 48					554.28	
S22M19	1	7100	1	7100					21.60	
S22M20	1	8800	1	8800					26.77	
S22M21	1	6700	1	6700					20.38	
S22M22	24	4000	1	4000					292.03	
S22M23	26	7000	1	7000					553.64	
S22M24	34	9150	1	9150					946.37	
S22M25 (3 Sets)	35	3700 TO 5200 INCR. 44	1	3700 TO 5200 INCR. 44					1421.37	
S22M26	36	7100 TO 9600 INCR. 71	1	7100 TO 9600 INCR. 71					914.43	
S22M27	36	8800 TO 13500 INCR. 134	1	8800 TO 13500 INCR. 134					1221.06	
S22M28	36	6700 TO 8900 INCR. 63	1	6700 TO 8900 INCR. 63					854.19	
S22M29	4	1100 TO 5800 INCR. 1567	1	1100 TO 5800 INCR. 1567					41.98	

MARK	NUMBER	LENGTH (mm)	TYPE	DIMENSIONS (mm) B	C	D	E	F	WEIGHT (kg)	REMARK
S22M30	27	5200 TO 14200 INCR. 346	1	5200 TO 14200 INCR. 346					796.70	
S22M31	34	5640 TO 6020 INCR. 12	1	5640 TO 6020 INCR. 12					602.99	
S22M32	5	2300 TO 5200 INCR. 725	1	2300 TO 5200 INCR. 725					57.04	
S22M33	4	2100 TO 6700 INCR. 1533	1	2100 TO 6700 INCR. 1533					53.54	

BAR TYPES



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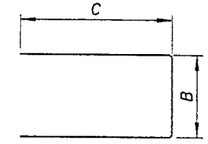

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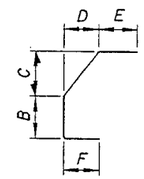

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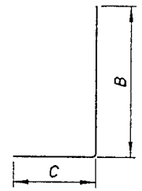

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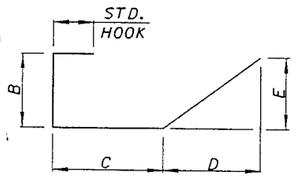
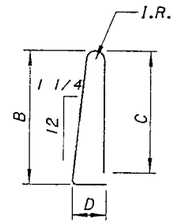
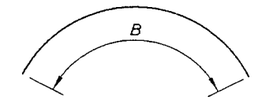


TYPE 25



TYPE 60



TYPE 4

NOTES:

1. * DIMENSION IS APPROXIMATE.
2. HOOK STYLES DETAILED ON THIS SHEET ARE FOR ILLUSTRATION ONLY.
3. STANDARD BEND AND HOOK DIMENSIONS ARE NOT SHOWN. USE LENGTHS IN THESE TABLES FOR A OR G
4. ALL DIMENSIONS ARE IN MILLIMETERS (mm). EXCEPT AS NOTED.
5. ALL DIMENSIONS ARE OUT-TO-OUT.
6. ALL REINFORCING STEEL SHALL BE EPOXY COATED WITH MINIMUM YIELD STRENGTH OF 400MPa.

REVISION NO.	DESCRIPTION	DATE	BY
1 ADDENDUM	REVISED BAR SCHEDULE	12-22-99	TOM

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2000
CINCINNATI, OH 45202-2739

PREPARED	DRAWN	REVISED	DATE
TOM	JAS	REVISED	12-22-99
CHECKED	REVIEWED	STRUCTURE FILE NUMBER	
VPH		3160661	

BAR SCHEDULE DECK - 2 OF 3
BRIDGE NO. 58
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

19A/24

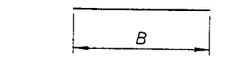
79A/125

ADDENDUM NO. 1
DEC. 22, 1999

MARK	NUMBER	LENGTH (mm)	TYPE	DIMENSIONS (mm) B	C	D	E	F	WEIGHT (kg)	REMARK
TOP LAYER										
S16M10	154	4000	1	4000					956.03	
S19M23	284	12190	1	12190					7737.48	
S19M24	32	9145	1	9145					654.05	
S19M25	2	12300	1	12300					54.98	
S19M26	2	3500	1	3500					15.65	
S19M27	2	9690	1	9690					43.31	
D19M28	57	5500 TO 5800 INCR 5	1	5500 TO 5800 INCR 5					719.78	
S19M29	32	5800 TO 8200 INCR 77	1	5800 TO 8200 INCR 77					500.64	
S19M30	20	8300 TO 13500 INCR 274	1	8300 TO 13500 INCR 274					487.23	
S19M31	14	5000 TO 13700 INCR 669	1	5000 TO 13700 INCR 669					292.56	
S19M32	12	1800 TO 4600 INCR 255	1	1800 TO 4600 INCR 255					85.82	
S19M33	6	2600 TO 5200 INCR 520	1	2600 TO 5200 INCR 520					52.30	
S19M34	12	1500 TO 1800 INCR 27	1	1500 TO 1800 INCR 27					44.25	
S19M35	6	5800 TO 12600 INCR 1360	1	5800 TO 12600 INCR 1360					123.37	
S19M36	20	2000 TO 4500 INCR 132	1	2000 TO 4500 INCR 132					145.28	
S19M37	29	12300 TO 12600 INCR 11	1	12300 TO 12600 INCR 11					806.95	

MARK	NUMBER	LENGTH (mm)	TYPE	DIMENSIONS (mm) B	C	D	E	F	WEIGHT (kg)	REMARK
CURTAIN WALL RAMP D										
C16M01	82	2430	11	118	1195	1195			309.25	3
C16M02	164	730	10	~~810~~ 910	200				185.81	
C16M03	16	2605	1	2605					64.69	
C16M04	16	3625	1	3625					90.02	
C16M05	16	3830	1	3830					95.11	
C16M06	16	2380	1	2380					59.10	
CURTAIN WALL RAMP D1										
C16M01	72	2430	11	118	1195	1195			271.54	
C16M02	144	730	10	~~810~~ 910	200				163.15	
C16M07	16	3610	1	3610					89.64	
C16M08	16	3610	1	3610					89.64	
C16M09	16	3865	1	3865					95.98	
DECK EXTENSION										
D16M01	100	890	1	890					138.13	
D16M02	12	6800	1	6800					126.64	
D19M01	12	12000	1	12000					321.84	
DECK BARRIERS										
S16M12	197	2150	60	990	915	205				
S19M40	197	740	10	490	280					
S19M41	197	680	3	270	150	230	125			

BAR TYPES



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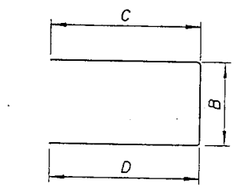

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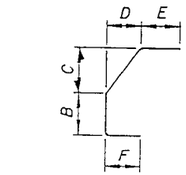

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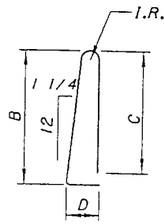

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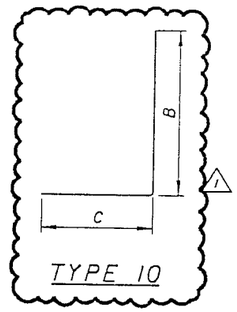


TYPE 10

NOTES:

1. * DIMENSION IS APPROXIMATE.
2. HOOK STYLES DETAILED ON THIS SHEET ARE FOR ILLUSTRATION ONLY.
3. STANDARD BEND AND HOOK DIMENSIONS ARE NOT SHOWN. USE LENGTHS IN THESE TABLES FOR A OR G
4. ALL DIMENSIONS ARE IN MILLIMETERS (mm), EXCEPT AS NOTED.
5. ALL DIMENSIONS ARE OUT-TO-OUT.
6. ALL REINFORCING STEEL SHALL BE EPOXY COATED WITH MINIMUM YIELD STRENGTH OF 400MPa.

REVISION NO.	DESCRIPTION	DATE	BY
1	ADDENDUM	12-22-99	TOM
3	REVISION	3-17-00	JWM

REVISED SCHEDULE & TITLE

MODIFY BARS

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

DRAWN JAS | REVISED | DATE 12-22-99
PREPARED TOM | CHECKED VPH | REVIEWED | STRUCTURE FILE NUMBER 3160661

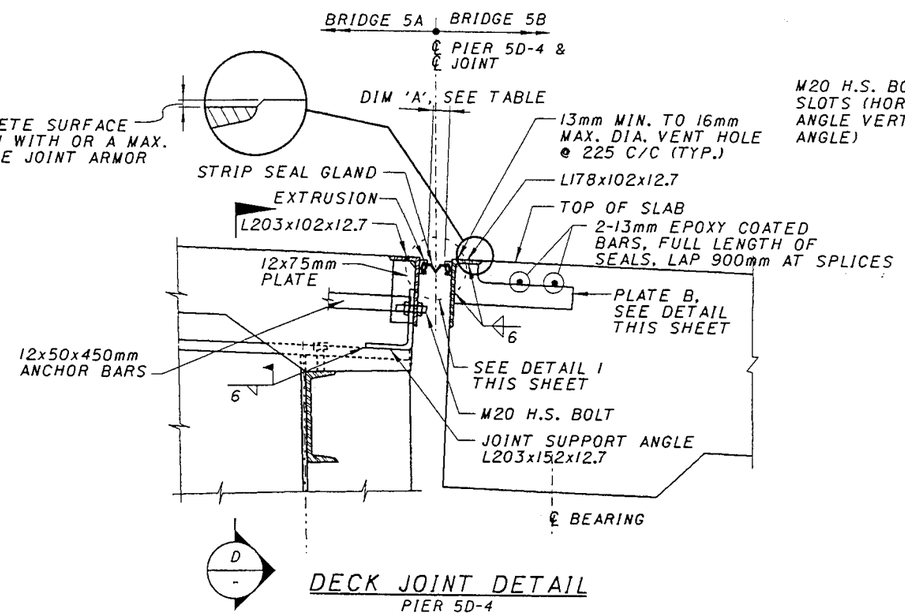
BAR SCHEDULE DECK - 3 OF 3
BRIDGE NO. 58
CLAY WADE BAILEY BRIDGE TO SECOND STREET

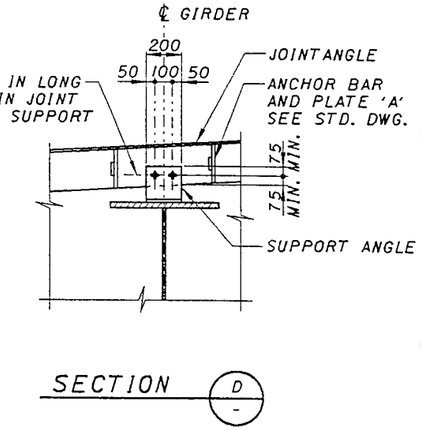
CITY OF CINCINNATI
CONTRACT NO. 75X5753

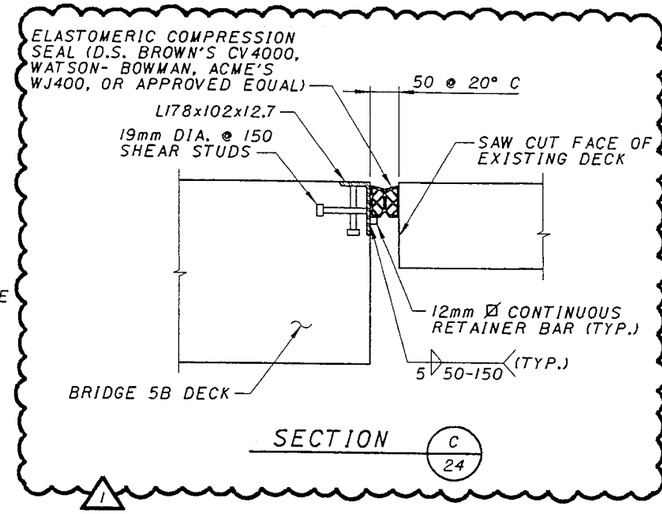
19B/24

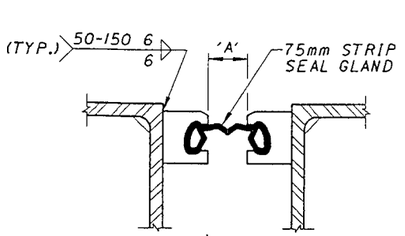
79B/125

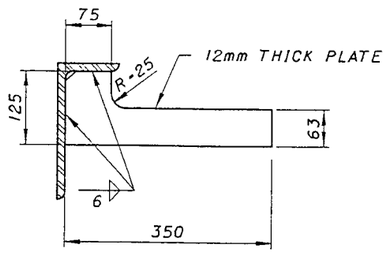
REVISION NO. 3
MAR. 17, 2000

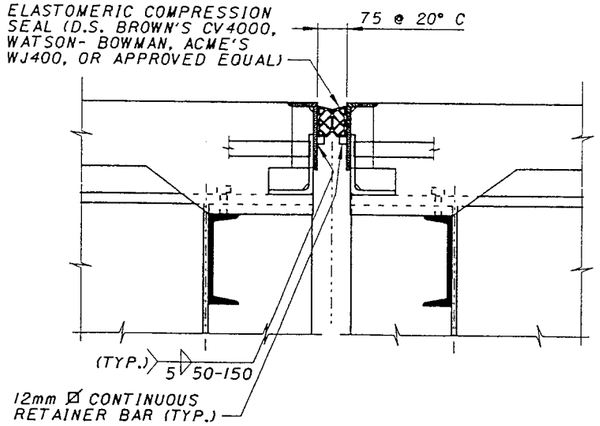


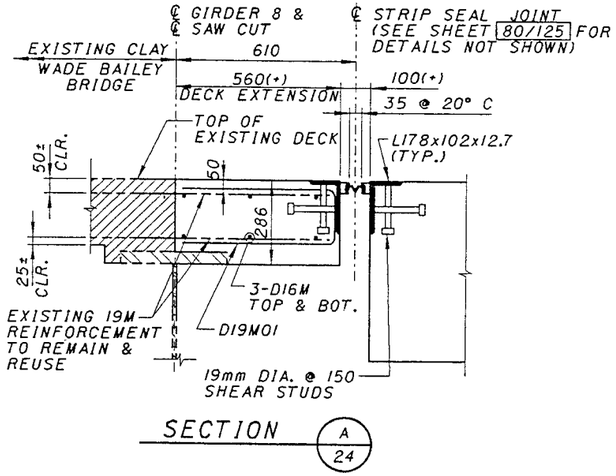












STRIP SEAL DIM. 'A' (SEE STD. DWG. EXJ-4-87M)								
	0°C / 32°F	5°C / 41°F	10°C / 50°F	15°C / 59°F	20°C / 68°F	25°C / 77°F	30°C / 86°F	35°C / 95°F
PIER 5D-4	49	46	42	39	35	32	29	25
.	.	.	.	.	.	.	.	.

NOTES:

1. DURING INSTALLATION OF THE SUPPORT/ARMOR FOR THE SUPERSTRUCTURE SIDE OF THE EXPANSION JOINT, THE SEATING OF BEAMS ON BEARINGS SHALL BE CAREFULLY OBSERVED TO ASSURE THAT POSITIVE BEARING IS MAINTAINED. PROPER VERTICAL FIT OF THE SUPPORT ARMOR ON THE GIRDERS SHALL BE ACHIEVED BY POSITIONING OF THE BEVEL FILL PLATES RATHER THAN BY CLAMPING FORCE.
2. FOR ADDITIONAL JOINT DETAILS, NOTES AND INSTALLATION DETAILS NOT SHOWN, SEE SECTIONS A-A, B-B & DETAIL A ON STD. DWG. EXJ-4-87M.
1 3. THE STRIP SEAL ARMORED JOINT SHALL BE CONTINUOUS THROUGH THE INTERIOR BARRIER AND TERMINATE 100mm FROM THE RIGHT EDGE OF DECK AT PIER 5D-4.

REVISION NO.	DESCRIPTION	DATE	BY
1 ADDENDUM	ADDED SECTION C	12-22-99	JWM

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 1500
CINCINNATI, OH 45202-2720
PB

REVISED 12-22-99 DATE
STRUCTURE FILE NUMBER 3160661
DRAWN JAS
REVISED
PREPARED JWM
CHECKED VJR

DECK JOINT DETAILS
BRIDGE NO. 5B
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

20/24
80/125

ADDENDUM NO. 1
DEC. 22, 1999

12/17/99 Fri Dec 17 15:28:24 1999
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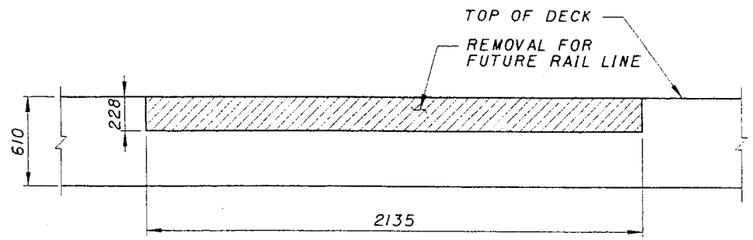

PARTIAL DECK SECTION LIGHT RAIL REMOVAL

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DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

REVISED	DATE
	12-02-99
STRUCTURE FILE NUMBER	
3160661	

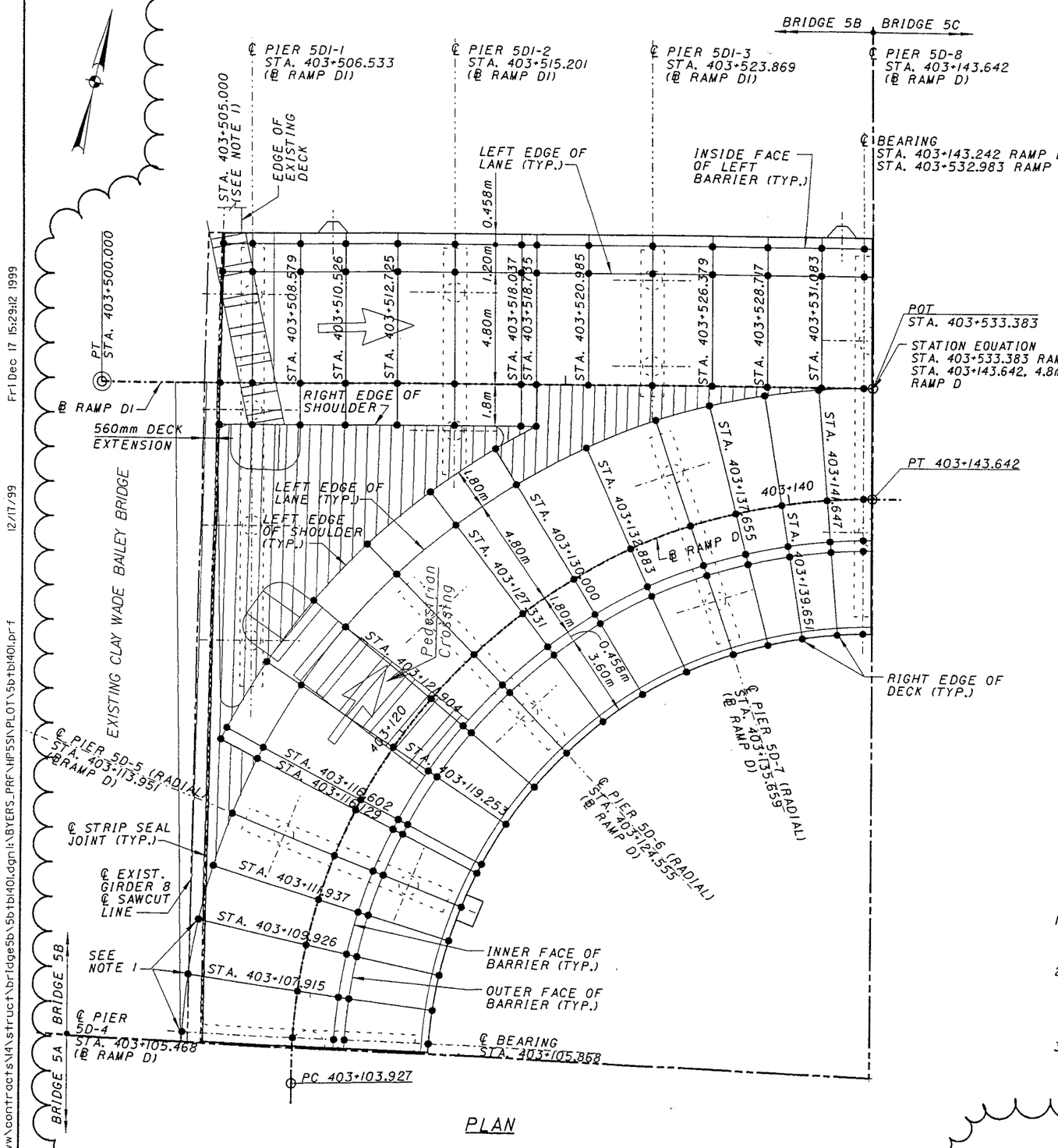
PREPARED	DRAWN
TOM	JAS
CHECKED	REVIEWED
JWM	

FUTURE LIGHT RAIL DETAILS
BRIDGE NO. 5B
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

21/24

(81/125)



PLAN

RAMP D, TOP OF SLAB ELEVATIONS

STATION	LEFT EDGE OF SHOULDER	LEFT EDGE OF LANE	BASELINE	INNER FACE OF BARRIER	OUTER FACE OF BARRIER	RIGHT EDGE OF DECK
403+105.868		158.314	158.237	158.208	158.201	158.143
403+107.915		158.232	158.155	158.126	158.119	158.061
403+109.926		158.152	158.075	158.046	158.039	157.981
403+111.937		158.072	157.995	157.966	157.959	157.901
403+113.951		157.992	157.915	157.886	157.879	157.821
403+116.129	157.934	157.905	157.828	157.799	157.792	157.734
403+116.602	157.915	157.886	157.809	157.780	157.773	157.715
403+119.253	157.809	157.780	157.703	157.674	157.667	157.609
403+121.904	157.704	157.675	157.598	157.569	157.562	157.504
403+124.555	157.598	157.569	157.492	157.463	157.456	157.398
403+127.331	157.488	157.459	157.382	157.353	157.346	157.288
403+130.000	157.381	157.352	157.275	157.246	157.239	157.181
403+132.883		157.242	157.165	157.136	157.129	157.071
403+135.659		157.143	157.066	157.037	157.030	156.972
403+137.655		157.075	156.998	156.969	156.962	156.904
403+139.651		157.012	156.935	156.906	156.899	156.841
403+141.647		156.951	156.874	156.845	156.838	156.780
403+143.242		156.905	156.828	156.799	156.792	156.734

RAMP DI, TOP OF SLAB ELEVATIONS

STATION	INSIDE FACE OF LEFT BARRIER	LEFT EDGE OF LANE	BASELINE	RIGHT EDGE OF SHOULDER
403+505.000	156.948	156.996	157.188	157.260
403+506.533	156.957	157.001	157.176	157.242
403+508.579	157.014	157.052	157.204	157.261
403+510.526	157.088	157.121	157.251	157.300
403+512.725	157.155	157.181	157.287	157.327
403+515.201	157.204	157.224	157.302	157.331
403+518.037	157.228	157.239	157.286	157.303
403+518.735	157.229	157.238	157.277	157.292
403+520.985	157.215	157.218	157.232	
403+523.869	157.177	157.173	157.154	
403+526.379	157.143	157.132	157.085	
403+528.717	157.112	157.093	157.021	
403+531.083	157.053	157.034	156.957	
403+532.983	157.001	156.982	156.905	

NOTES:

1. THE CONTRACTOR SHALL VERIFY EXISTING TOP OF DECK ELEVATIONS ALONG THE CLAY WADE BAILEY BRIDGE INTERFACE WITH BRIDGE 5B, PRIOR TO POURING THE 560mm DECK EXTENSION. SEE SHEET 24/24 .
2. THE SHADED AREA SHALL BE SLOPED IN THE DIRECTION OF THE LINES SHOWN, UNIFORMLY, BETWEEN THE EDGES OF THE RAMP D AND RAMP DI SHOULDER OR ROADWAY. ADJUST THE TOP DECK ELEVATIONS AS NECESSARY TO MAINTAIN A SMOOTH TRANSITION FROM THE EXISTING CLAY WADE BAILEY BRIDGE CROSS SLOPE.
3. FOR VERTICAL ALIGNMENT AND CROSS SLOPE, SEE SHEET 1A/24 .

REVISION NO.	DESCRIPTION	DATE	BY
1 ADDENDUM	NEW SHEET	12-22-99	VPH

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720
(513) 369-1000 FAX

PREPARED VPH | DRAWN JAS | CHECKED JWH | REVIEWED

REVISED 12-22-99 | DATE | STRUCTURE FILE NUMBER 3160661

TOP OF SLAB ELEVATIONS
BRIDGE NO. 5B
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

22/24

82/125

ADDENDUM NO. 1
DEC. 22, 1999

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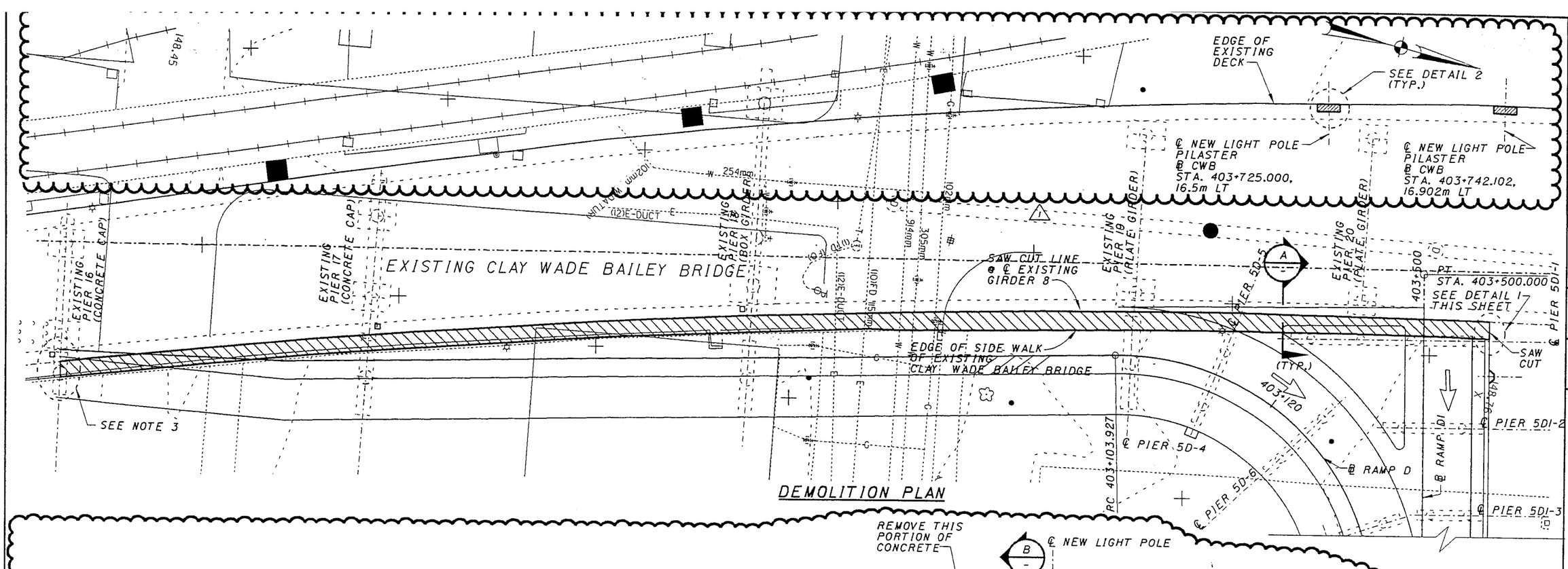
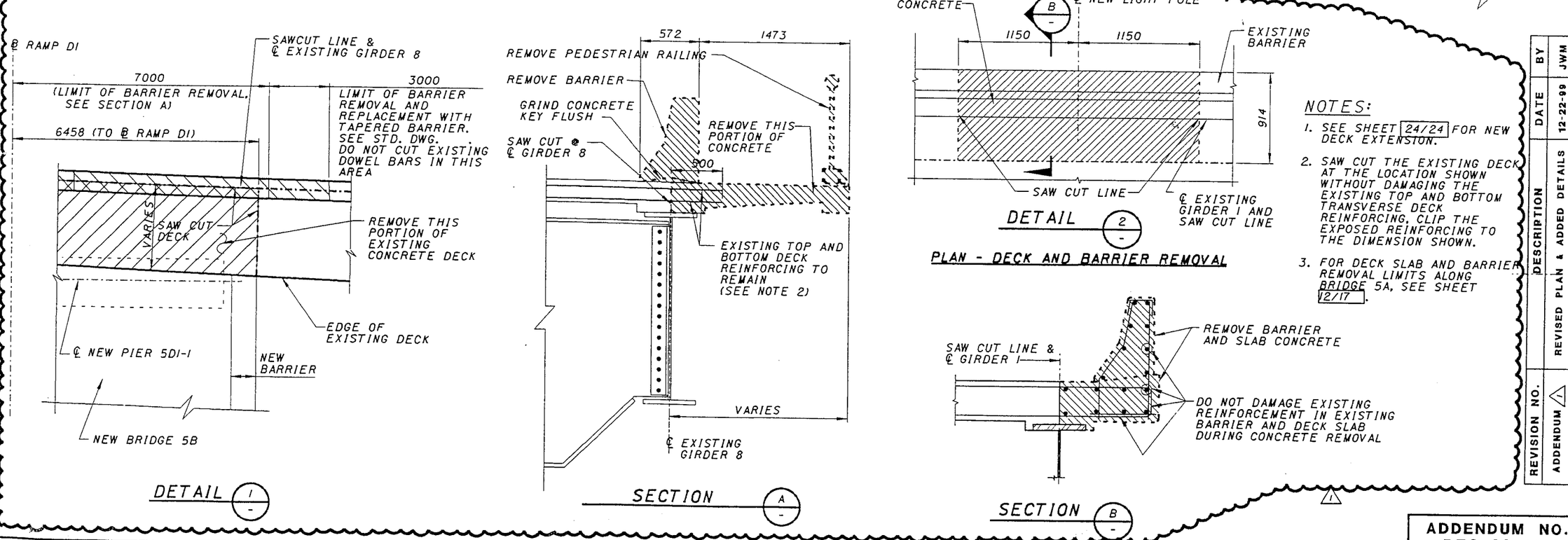


DEMOLITION PLAN



DETAIL 1

SECTION A

DETAIL 2

SECTION B

PLAN - DECK AND BARRIER REMOVAL

NOTES:

1. SEE SHEET 24/24 FOR NEW DECK EXTENSION.
2. SAW CUT THE EXISTING DECK AT THE LOCATION SHOWN WITHOUT DAMAGING THE EXISTING TOP AND BOTTOM TRANSVERSE DECK REINFORCING. CLIP THE EXPOSED REINFORCING TO THE DIMENSION SHOWN.
3. FOR DECK SLAB AND BARRIER REMOVAL LIMITS ALONG BRIDGE 5A, SEE SHEET 12/17.

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REVISED PLAN & ADDED DETAILS	12-22-99	JWM

DESIGN AGENCY: PARSONS BRINCKERHOFF, INC. 312 ELM STREET, SUITE 2300 CINCINNATI, OH 45202-2230

PREPARED	DRAWN	REVISED	DATE
TOM	JAS		12-22-99
CHECKED	REVIEWED		STRUCTURE FILE NUMBER
JWM			3/16066 I

DECK DEMOLITION PLAN AND DETAILS
BRIDGE NO. 5B
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

23/24

83/125

ADDENDUM NO. 1
DEC. 22, 1999

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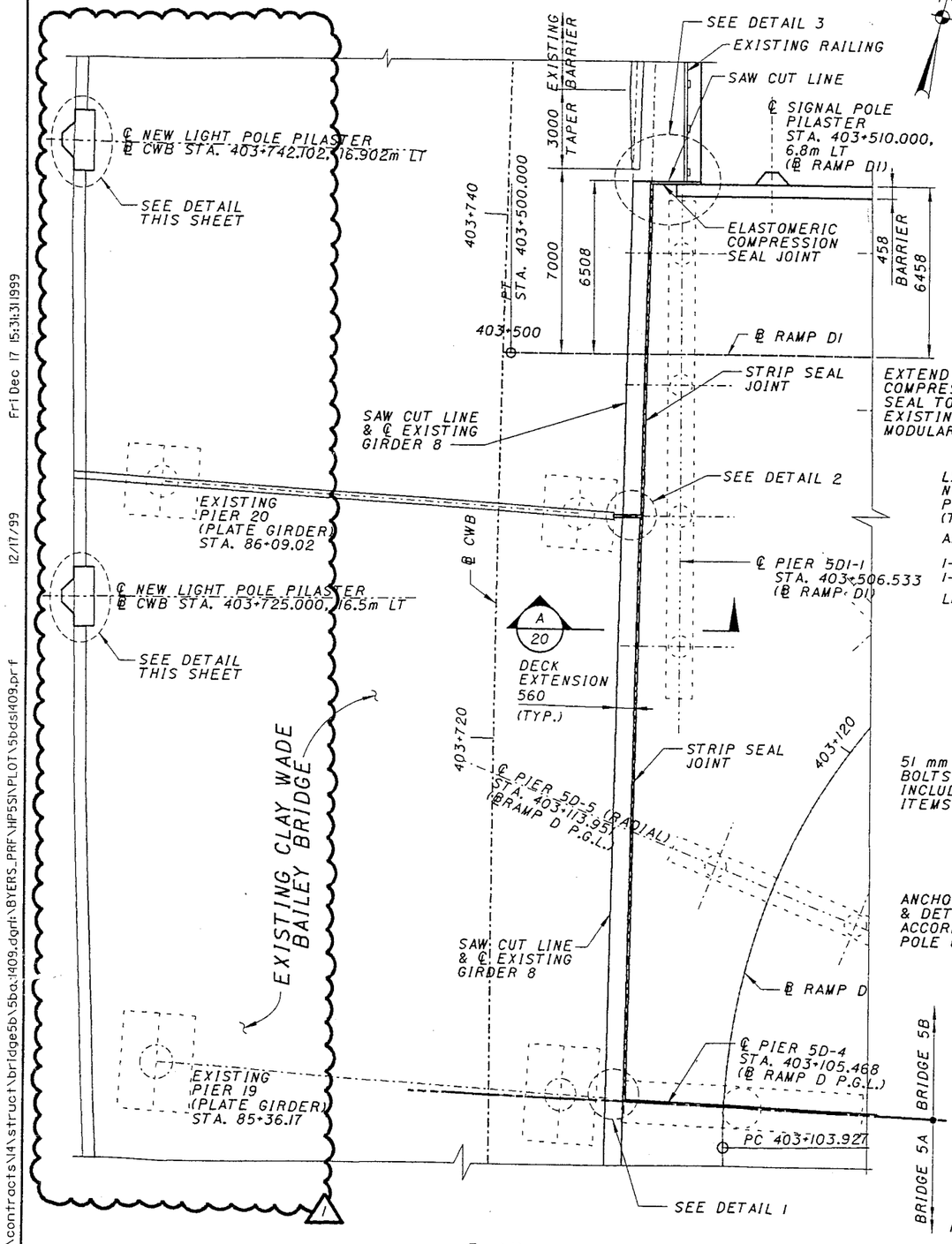
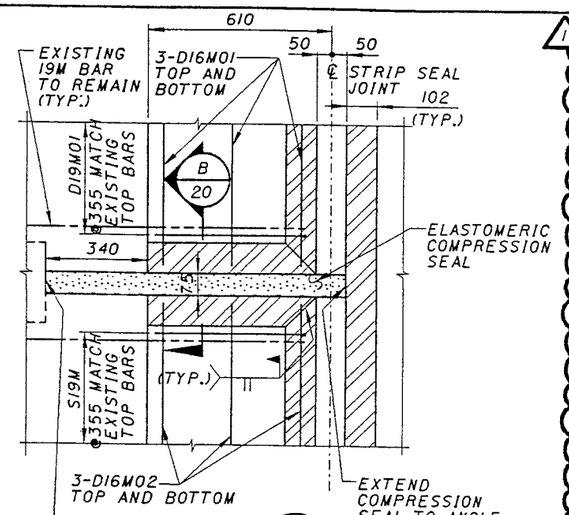
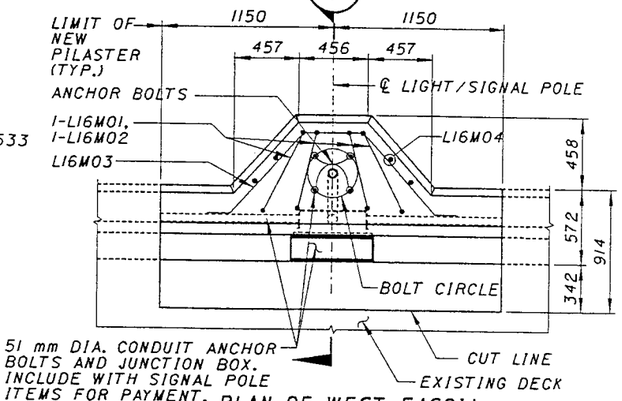
12/21/99 Tue Dec 21 13:08:41 1999



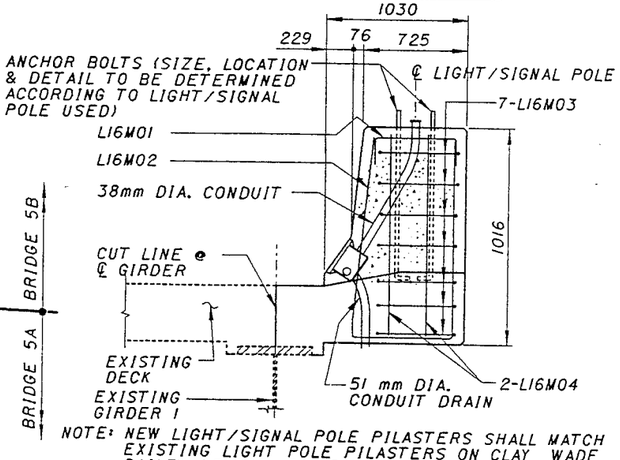
PLAN



DETAIL 2 / D

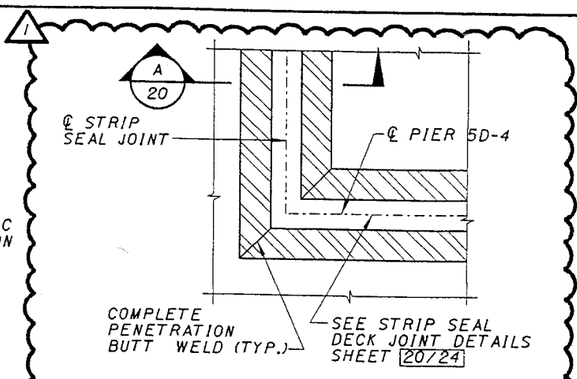


PLAN OF WEST FASCIA
CLAY WADE BAILEY BRIDGE

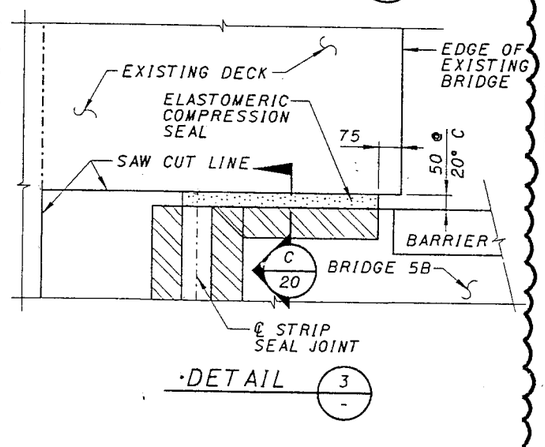


NOTE: NEW LIGHT/SIGNAL POLE PILASTERS SHALL MATCH EXISTING LIGHT POLE PILASTERS ON CLAY WADE BAILEY BRIDGE. FIELD VERIFY DIMENSIONS.

SECTION D



DETAIL 1



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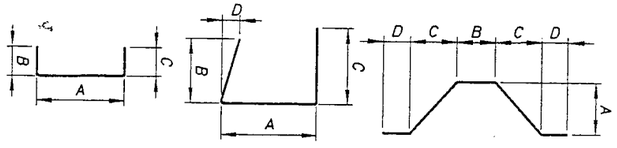


TYPE 1 TYPE 2 TYPE 3

REINFORCING STEEL LIST-ONE PILASTER

MARK	NO.	LENGTH	TYPE	A	B	C	D	E
L16M01	4	880	1	600	180	180	-	-
L16M02	4	2480	2	750	900	900	155	-
L16M03	7	2260	3	570	400	590	150	-
L16M04	4	915	STR	-	-	-	-	-

NOTES:

1. FOR LIGHT POLE PILASTER DETAILS NOT SHOWN, SEE STD. DWG. HL-20.14M.
2. 51 mm DIA. CONDUIT, ANCHOR BOLTS AND JUNCTION BOX INCLUDED WITH LIGHTING ITEMS. FOR PAYMENT, SEE STD. DWG. HL-20.14M.
3. SEE BAR SCHEDULE SHEET 19B/24 FOR DECK EXTENSION REINFORCING.
4. STRIP SEAL TO BE FABRICATED IN ONE CONTINUOUS PIECE TO THE TRANSVERSE STRIP SEAL

ADDENDUM NO. 1
DEC. 22, 1999

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REVISED PLAN AND ADDED NEW DETAILS	12-22-99	JWM

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

PREPARED	DRAWN	REVISED	DATE
TOM	JAS		12-22-99
CHECKED	REVIEWED	STRUCTURE FILE NUMBER	
VJR		316066	

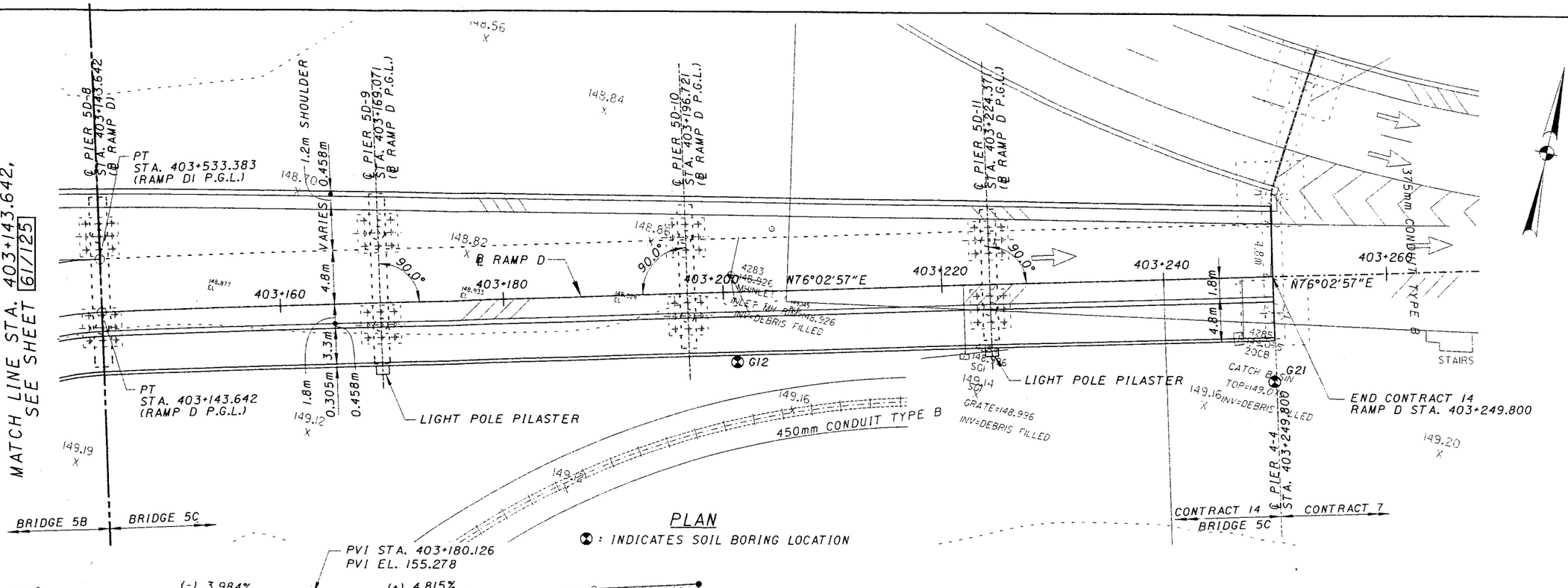
DECK EXTENSION PLAN AND DETAILS
BRIDGE NO. 5B
CLAY WADE BAILEY BRIDGE TO SECOND STREET

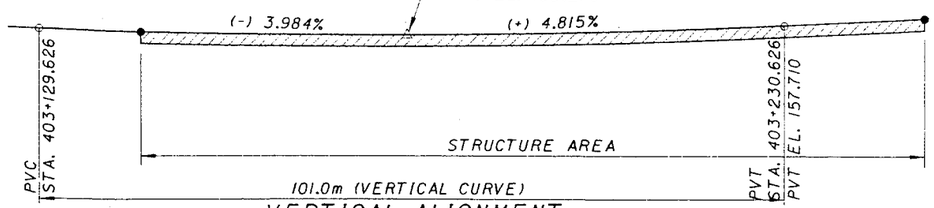
CITY OF CINCINNATI
CONTRACT NO. 75X5753

24/24

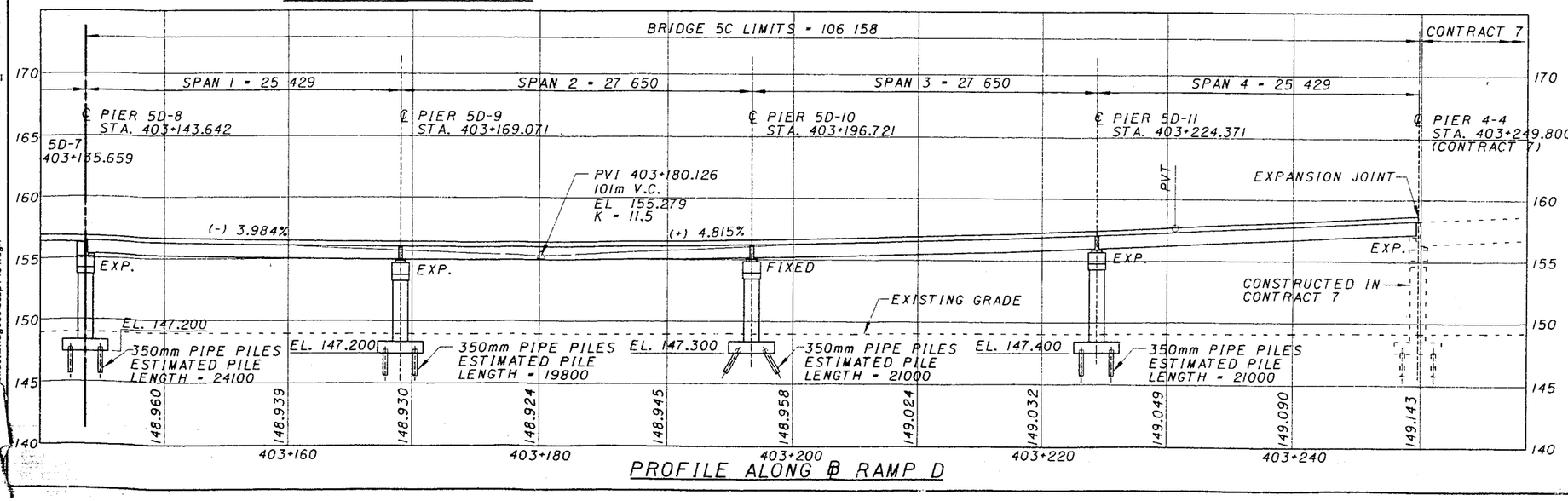
84/125

Section 5/6





VERTICAL ALIGNMENT



PROFILE ALONG ℄ RAMP D

NOTES:

1. SEE SHEETS 10/125 FOR VERT. & HORIZ. ALIGNMENT.
2. SEE SHEET 86/125 FOR TYPICAL SECTIONS.
3. PIERS AND DECK SECTIONS VARY, SEE FIER DETAIL SHEETS FOR PIER ELEVATIONS. SEE DECK SHEETS FOR DECK DETAILS.

PROPOSED STRUCTURE

TYPE: 4-SPAN PRESSTRESSED I-GIRDER, WITH COMPOSITE CONCRETE DECK, SUPPORTED BY REINFORCED CONCRETE PIERS

LENGTH OF SPANS: 25 429 SPAN 1
27 650 SPAN 2
27 650 SPAN 3
25 429 SPAN 4
MEASURED c/c BEARING ALONG ℄

ROADWAY WIDTH: VARIES 16 821 TO 12 021

DESIGN LOADING: MS18 WITH ALTERNATE MILITARY LOADING, CASE I

SKEW ANGLE: VARIES

SUPERELEVATION: VARIES

WEARING SURFACE: MONOLITHIC CONCRETE

ALIGNMENT: TANGENT AND CURVE TO RIGHT & LEFT

LATITUDE: N 39°05'45"

LONGITUDE: W 84°31'15"

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

DRAWN	REVISED	DATE
JAS		12-02-99
REVIEWED	STRUCTURE FILE NUMBER	
	316066	
PREPARED		
VJR		
CHECKED		
JWM		

SITE PLAN - RAMP D
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

1/41

85/125

Wed Dec 1 10:55:15 1999
12/01/99
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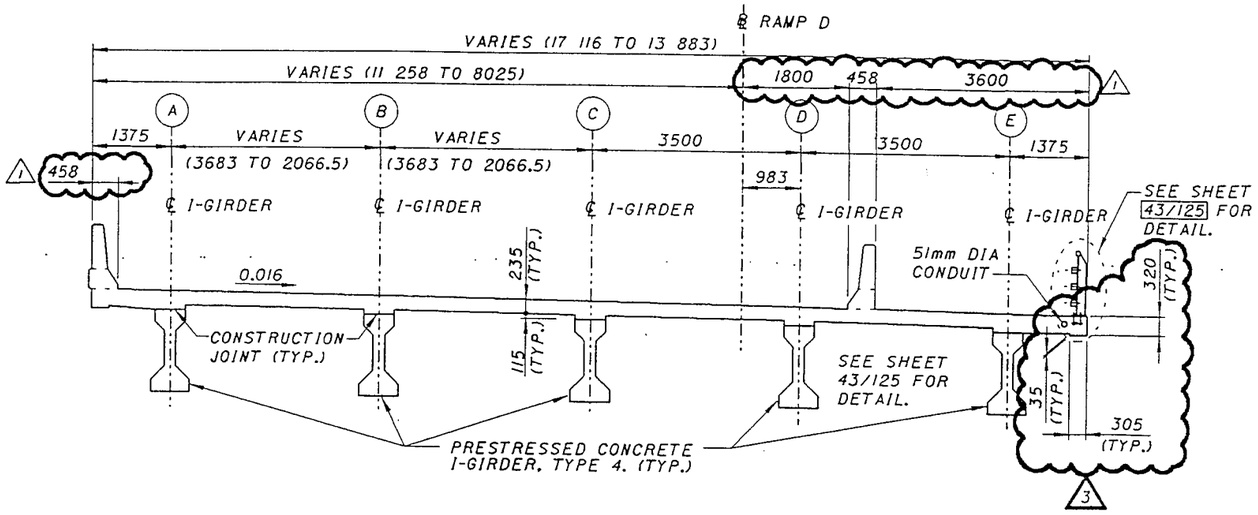
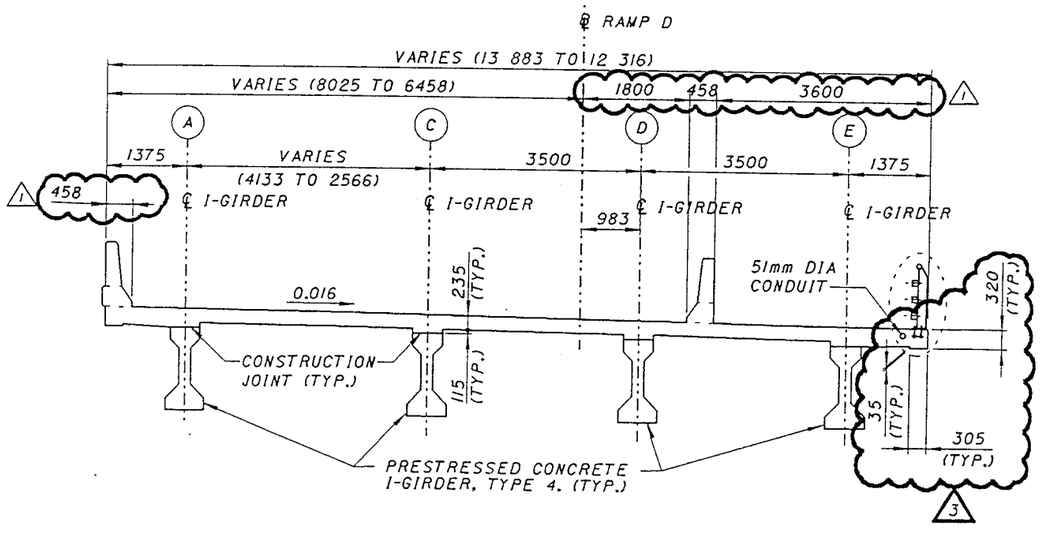


TYPICAL SECTION
STA. 403+143.642 TO STA. 403+215.155



TYPICAL SECTION
STA. 403+215.155 TO STA. 403+249.800

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	ADDED DIMENSIONS	12-22-99	VJR
REVISION 3	MODIFY EDGE OF DECK	3-17-00	JWM

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

PREPARED TOM | DRAWN JAS | CHECKED VPH | REVIEWED | REVISED DATE 12-22-99 | STRUCTURE FILE NUMBER 316066 |

TYPICAL SECTIONS
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

2/41

86/125

REVISION NO. 3
MAR. 17, 2000

03/20/00 Mon Mar 20 13:39:21 2000
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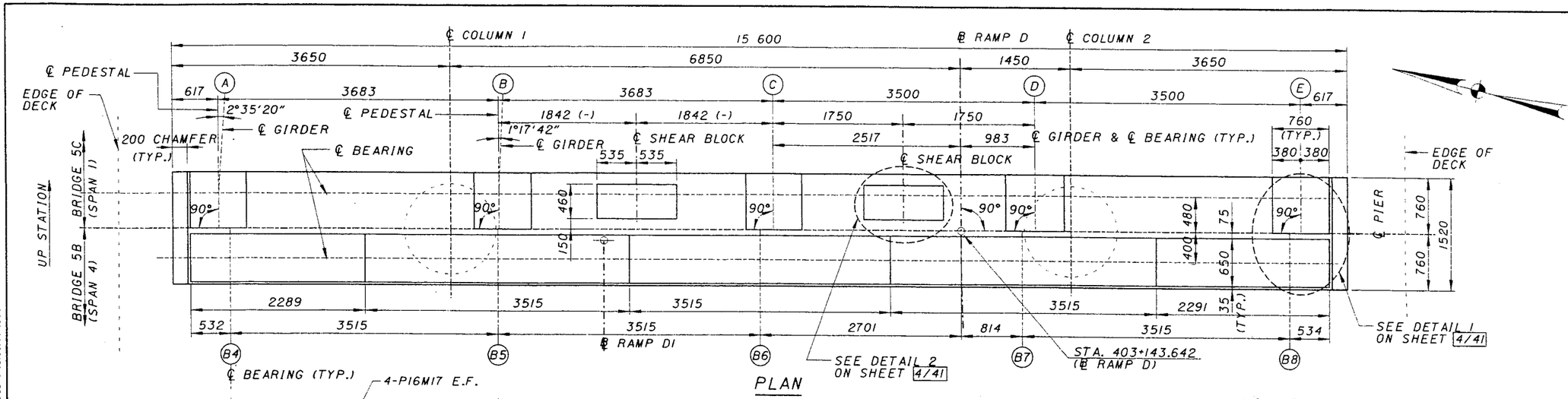

BEARING PEDESTAL ELEVATIONS

BEARING	SPAN 4*	GIRDER	SPAN 1
B4	156.170	A	~~155.186~~ 155.123
B5	156.114	B	~~155.107~~ 155.164
B6	156.057	C	~~155.048~~ 155.045
B7	156.001	D	~~154.992~~ 154.989
B8	155.945	E	~~154.936~~ 154.933

* BRIDGE 5B

NOTES :

1. SEE SHEET 11/41 FOR REINFORCING SCHEDULE.
2. SEE SHEET 4/41 FOR FOOTING PLAN.
3. ADJUST PIER CAP REINFORCING TO AVOID COLUMN REINFORCING.
4. SPIRAL REINFORCING MAY BE DISCONTINUED AT BOTTOM OF PIER CAP AND TOP OF FOOTING.
5. ALL PILES ARE STEEL PIPE PILES 350mm DIA. WITH ULTIMATE PILE CAPACITY OF 1512 kN.
6. ADJUST FOOTING BOTTOM REINFORCEMENT TO CLEAR PILES.

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
112 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

PREPARED	DRAWN	CHECKED	REVISED	DATE	STRUCTURE FILE NUMBER
VJR	JAS	JWM		12-02-99	3160661

PIER 5D-8 PLAN AND ELEVATION
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

3/41

87/125

Wed Dec 1 10:56:11 1999

12/01/99

I:\BYERS_PRF\SOLUS4\PLOT\5cpr1401.prf

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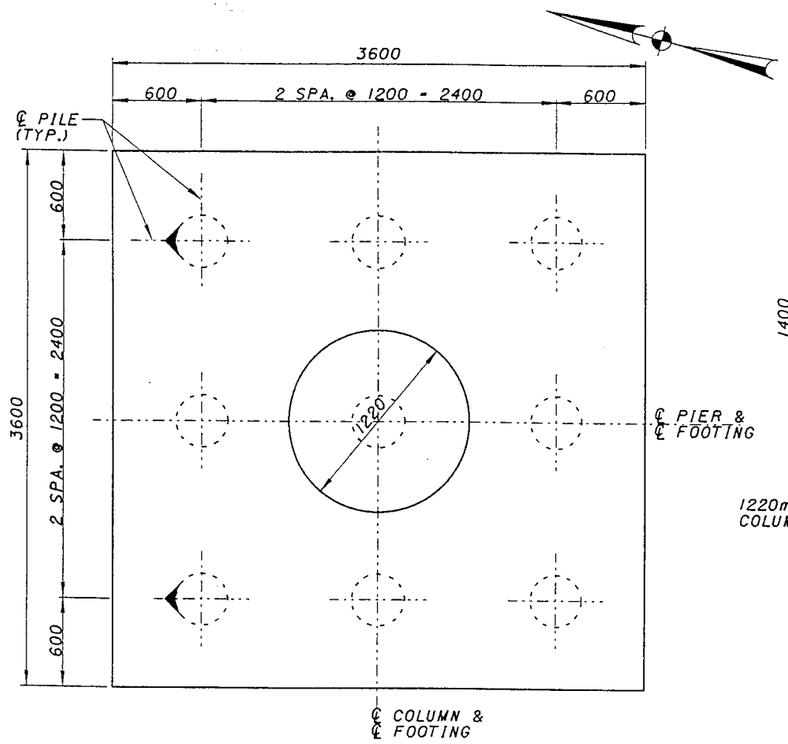
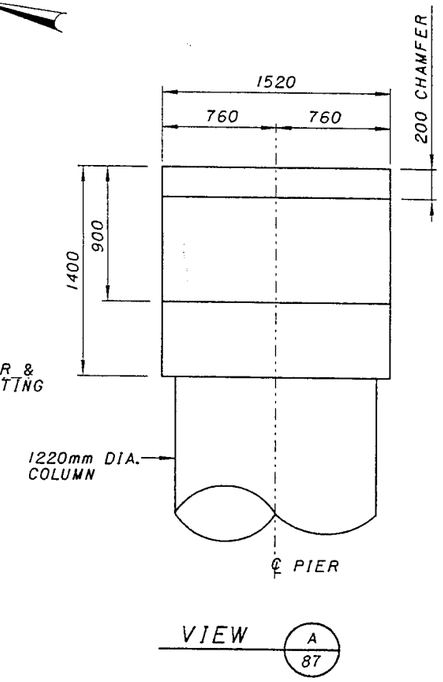


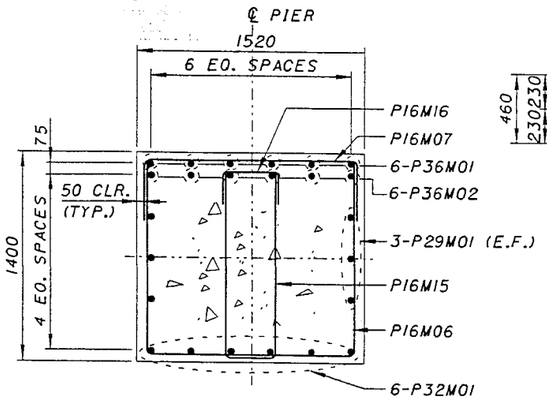
NOTES: ⌓ INDICATES BATTERED 1:4 PILES IN THE DIRECTION OF ARROWS

FOOTING PLAN

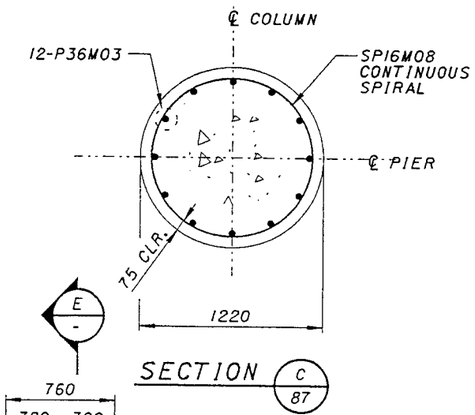
(FOOTING FOR COLUMN 1 SHOWN, FOOTING FOR COLUMN 2 OPPOSITE HAND)



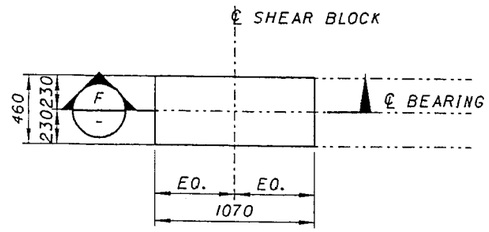
VIEW (A/87)



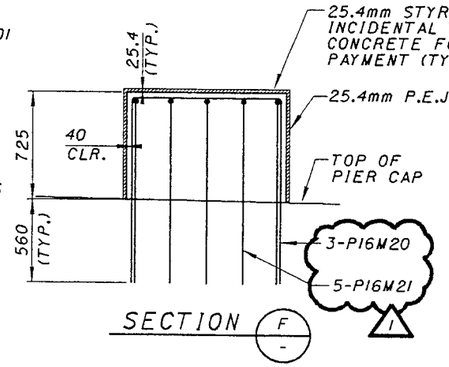
SECTION (B/87)



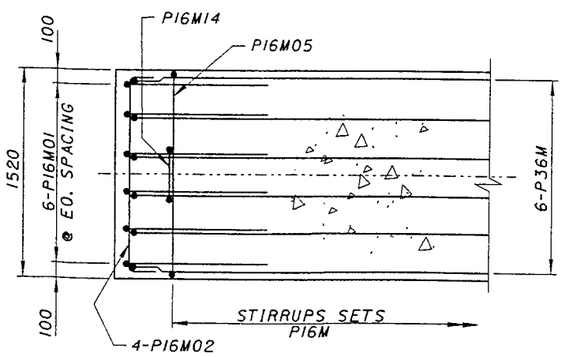
SECTION (C/87)



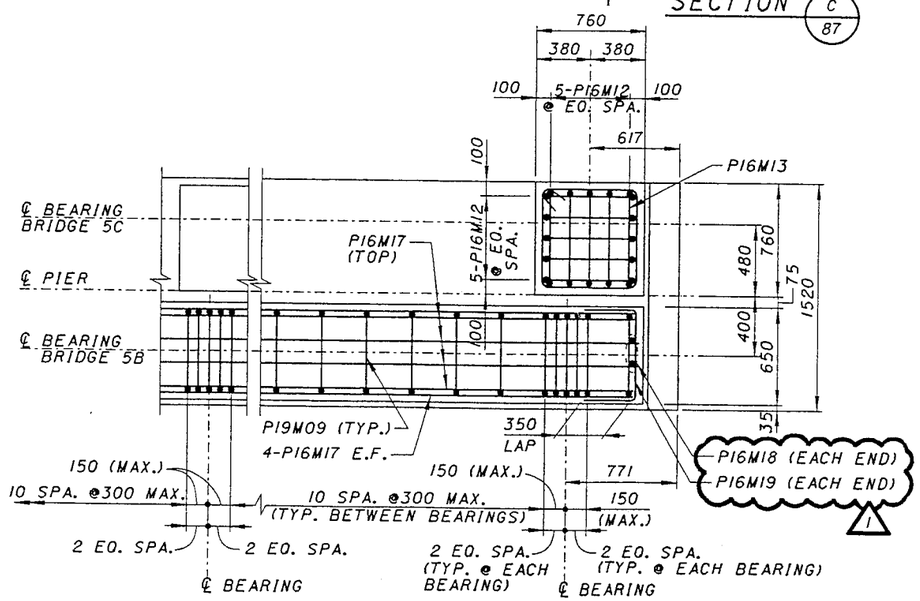
DETAIL (2/87)



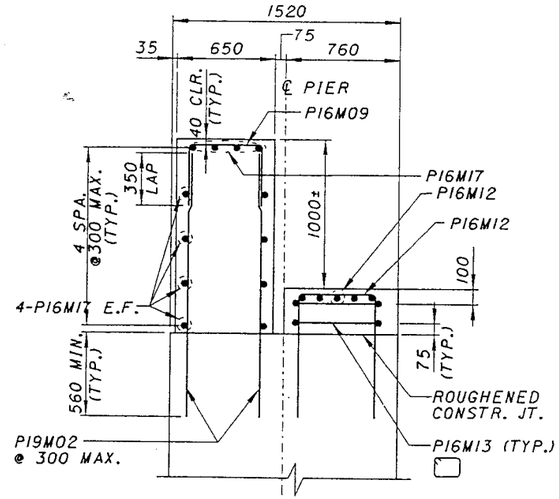
SECTION (F/-)



SECTION (D/87)



DETAIL (1/87) PEDESTAL PLAN



NOTE: FOR PEDESTAL ELEVATIONS. SEE TABLE SHEET 3741

SECTION (E/-)

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REVISE BAR MARKS	12-22-99	JWM

DESIGN AGENCY: PARSONS BRINCKERHOFF, INC. 312 ELM STREET, SUITE 2500 CINCINNATI, OH 45202-2720

REVISED DATE 12-22-99 STRUCTURE FILE NUMBER 3160661

PREPARED VJR | DRAWN JAS | CHECKED JWM | REVIEWED

PIER 5D-8 FOOTING PLAN AND DETAILS

BRIDGE NO. 5C

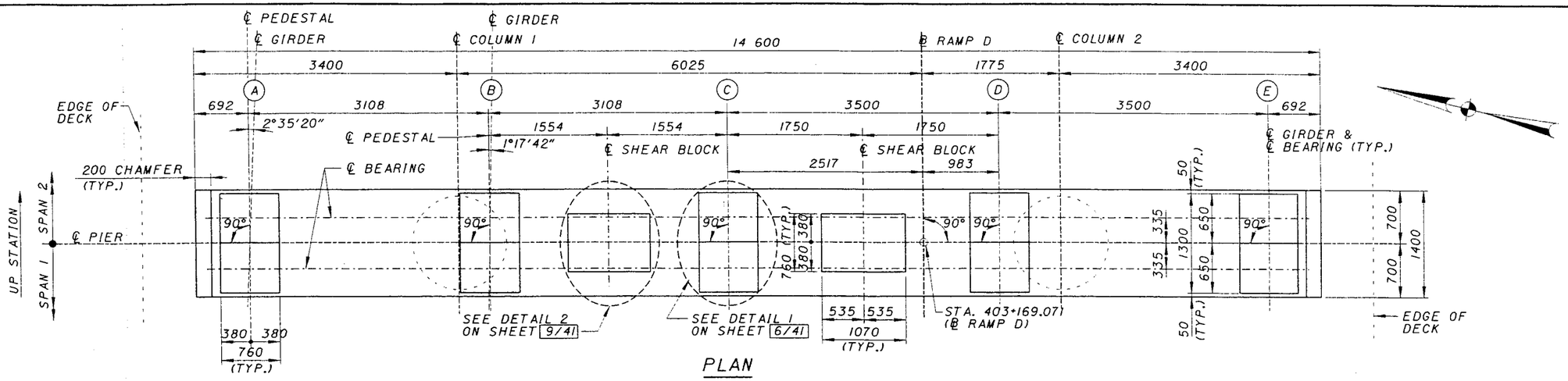
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

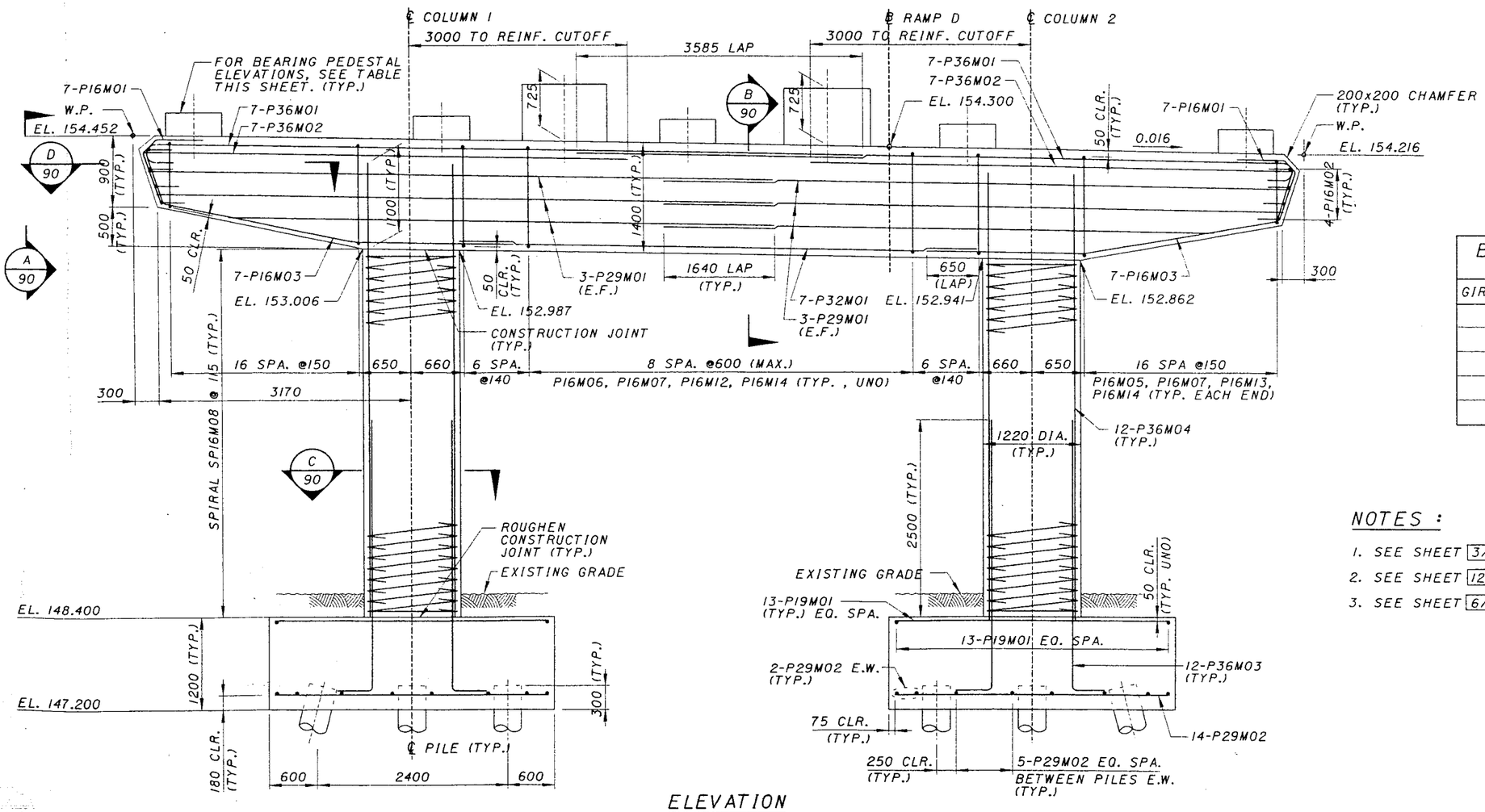
4/41

88/125

ADDENDUM NO. 1
DEC. 22, 1999



PLAN



ELEVATION

BEARING PEDESTAL ELEVATIONS

GIRDER	SPAN 1	SPAN 2
A	~~154.756~~ 154.753	~~154.744~~ 154.741
B	~~154.706~~ 154.703	~~154.694~~ 154.692
C	~~154.656~~ 154.653	~~154.644~~ 154.642
D	~~154.608~~ 154.397	~~154.589~~ 154.586
E	~~154.344~~ 154.341	~~154.530~~ 154.530

NOTES :

1. SEE SHEET 3/41 FOR NOTES.
2. SEE SHEET 12/41 FOR REINFORCING SCHEDULE.
3. SEE SHEET 6/41 FOR FOOTING PLAN.

DESIGN AGENCY: PARSONS BRINCKERHOFF, INC. 112 E.W. STREET, SUITE 2500 CINCINNATI, OH 45202-2720

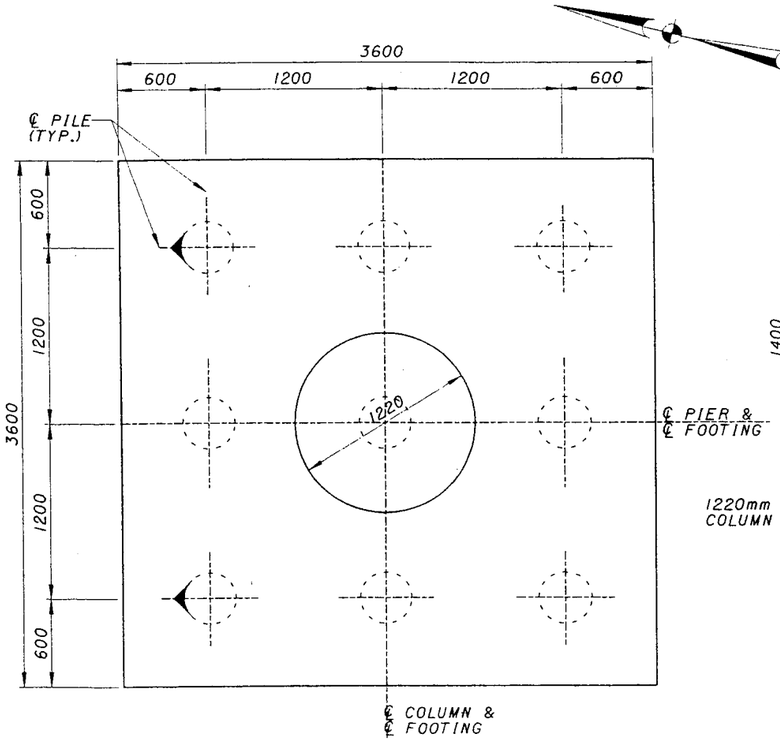
PREPARED VJR	DRAWN JAS	REVISED 12-02-99	DATE
CHECKED JWM	REVIEWED	STRUCTURE FILE NUMBER 3160661	

PIER 5D-9 PLAN AND ELEVATION
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

5 / 41

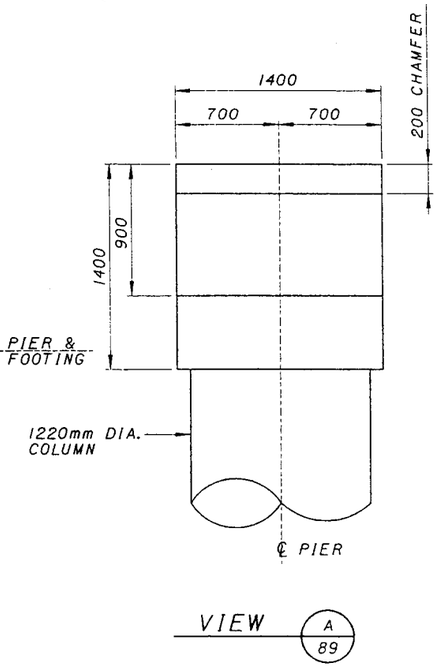
89 / 125



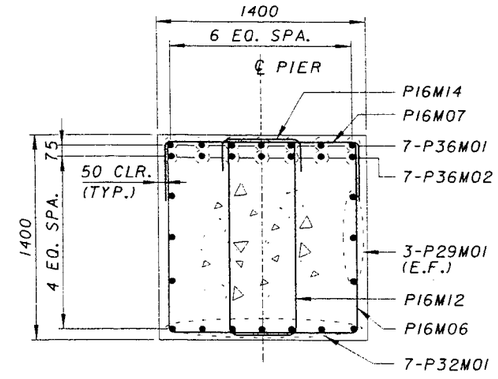
NOTE: ⌒ INDICATES BATTERED 1:4 PILES IN THE DIRECTION OF ARROW

FOOTING PLAN

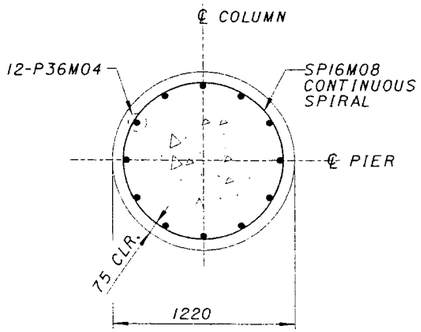
(FOOTING FOR COLUMN 1 SHOWN, FOOTING FOR COLUMN 2 OPPOSITE HAND)



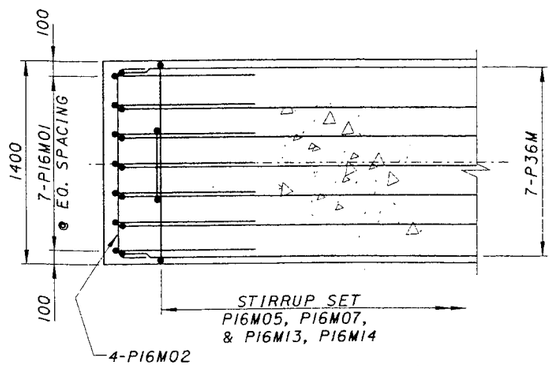
VIEW A / 89



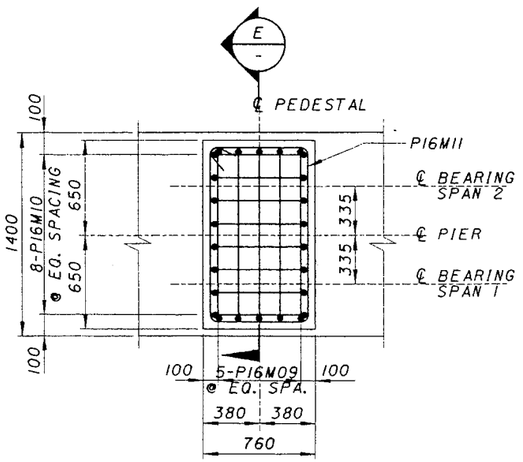
SECTION B / 89



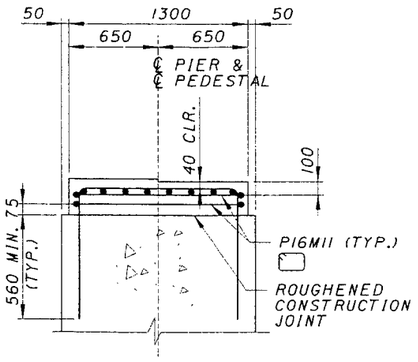
SECTION C / 89



SECTION D / 89



DETAIL PEDESTAL PLAN 1 / 89



NOTE: FOR PEDESTAL ELEVATIONS, SEE TABLE SHEET 5/41.

SECTION E / -

Wed Dec 11:03:30 1999

12/01/99

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DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

REVISED	DATE	STRUCTURE FILE NUMBER
	12-02-99	316066

DRAWN	REVIEWED
JAS	

PREPARED	CHECKED
VJR	JWM

PIER 5D-9 FOOTING PLAN AND DETAILS

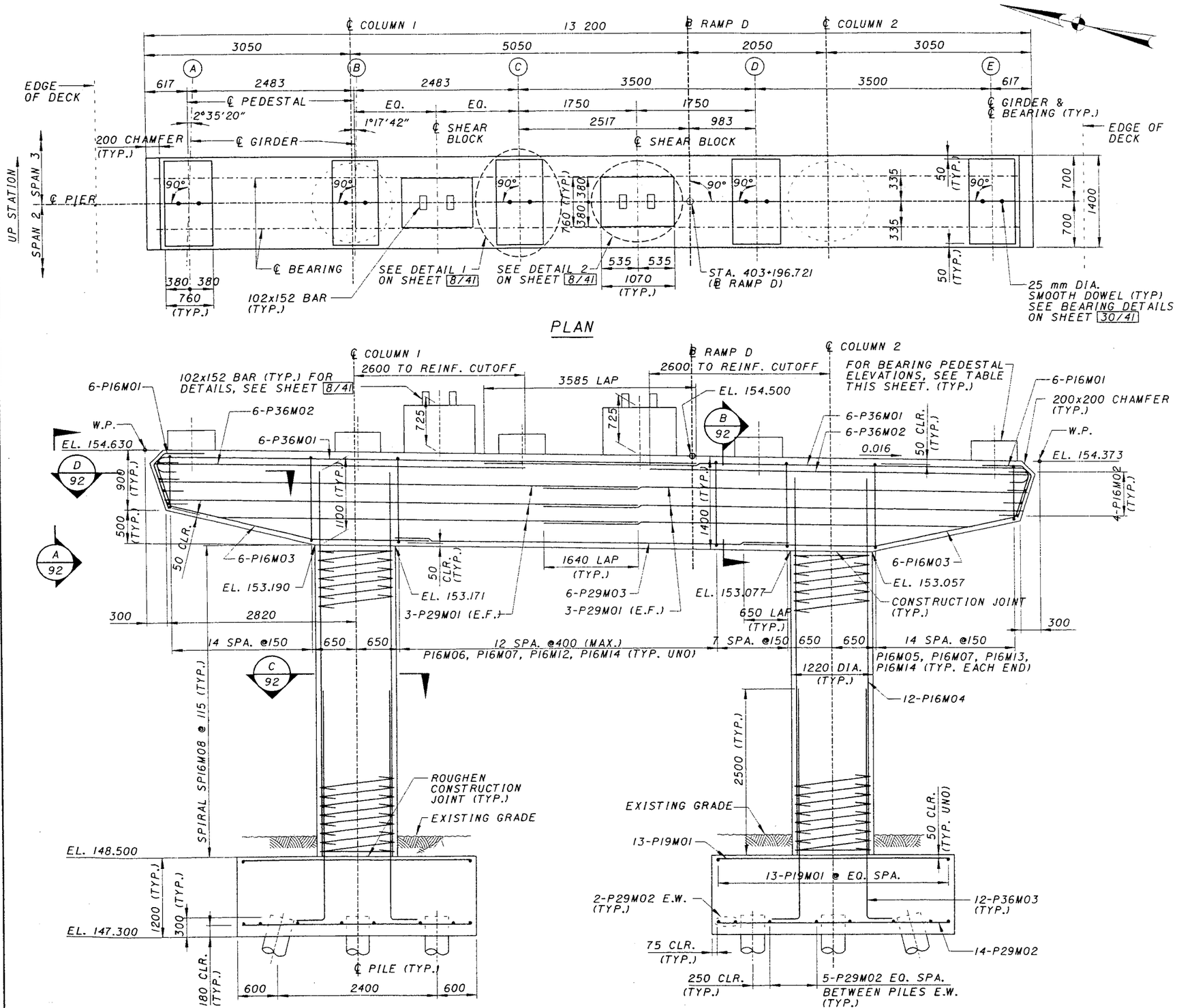
BRIDGE NO. 5C

CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

6 / 41

90 / 125



PLAN

ELEVATION

BEARING PEDESTAL ELEVATIONS

GIRDER	SPAN 2	SPAN 3
A	~~154.917~~ 154.915	~~154.940~~ 154.936
B	~~154.877~~ 154.875	~~154.900~~ 154.897
C	~~154.837~~ 154.835	~~154.860~~ 154.857
D	~~154.797~~ 154.799	~~154.820~~ 154.801
E	~~154.725~~ 154.723	~~154.740~~ 154.745

NOTES :

1. SEE SHEET 3/41 FOR NOTES.
2. SEE SHEET 13/41 FOR REINFORCING SCHEDULE.
3. SEE SHEET 8/41 FOR FOOTING PLAN.

PIER 5D-10 PLAN AND ELEVATION
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

7 / 41

91 / 125

DESIGN AGENCY: PARSONS BRINCKERHOFF, INC. 312 ELM STREET, SUITE 2000 CINCINNATI, OH 45202-2720

REVISED	DATE	DRAWN	PREPARED
	12-02-99	JAS	VJR
STRUCTURE FILE NUMBER		REVIEWED	CHECKED
3160661			JWM

12/01/99 Wed Dec 11:03:51 1999

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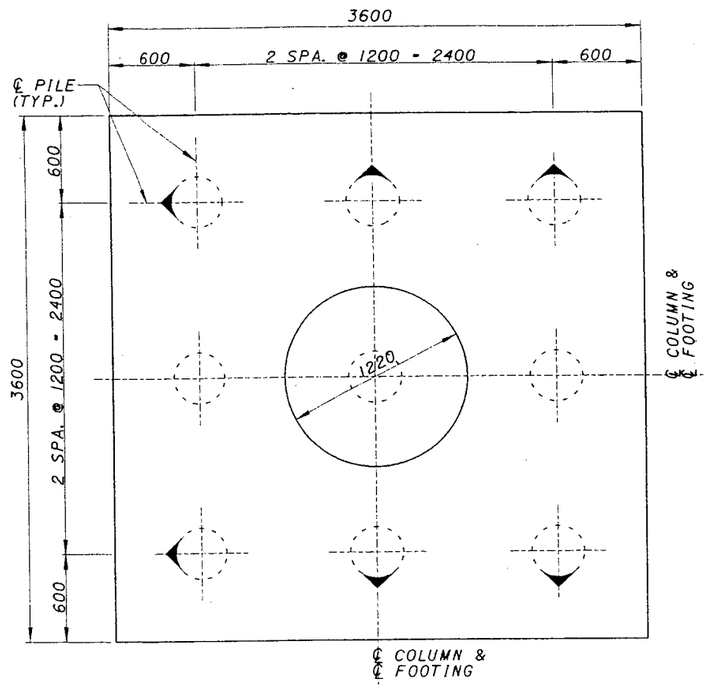
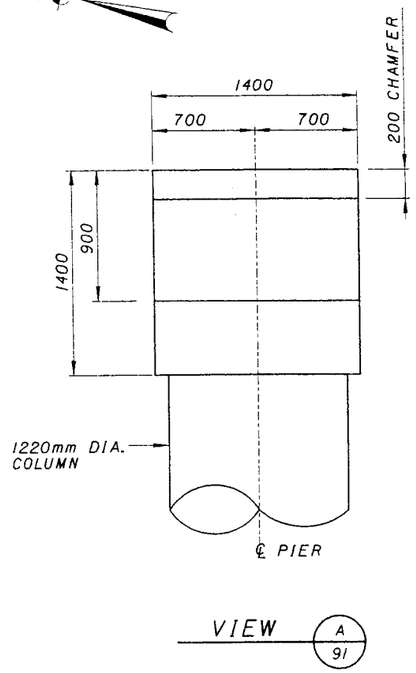


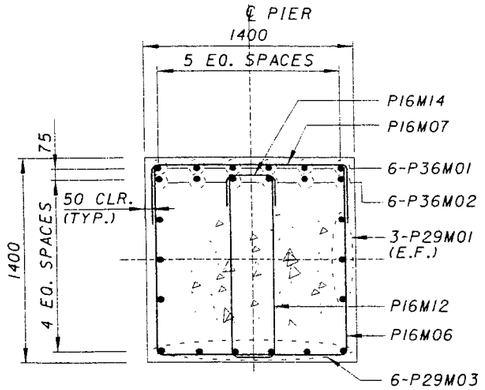
NOTES: ▲ INDICATES BATTERED 1:4 PILES IN THE DIRECTION OF ARROWS

FOOTING PLAN

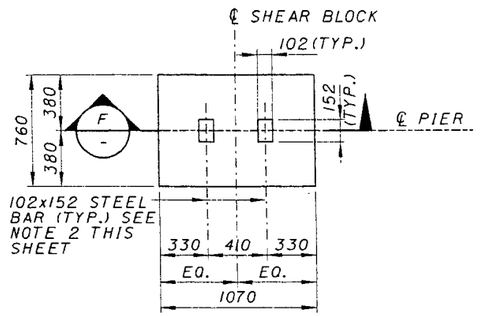
(FOOTING FOR COLUMN 1 SHOWN
FOOTING FOR COLUMN 2 OPPOSITE HAND)



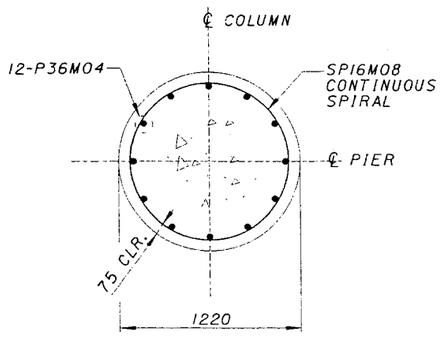
VIEW A / 91



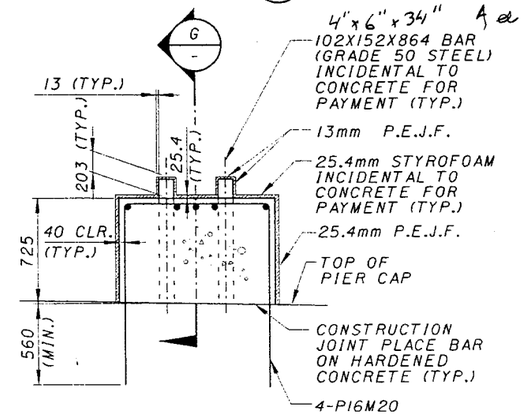
SECTION B / 91



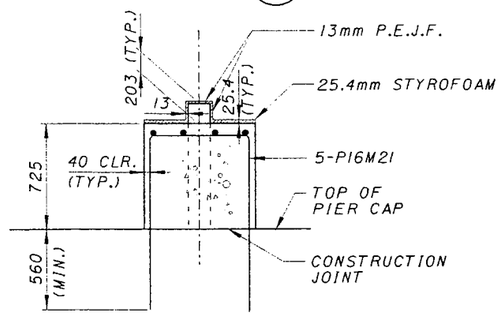
DETAIL 2 / 91



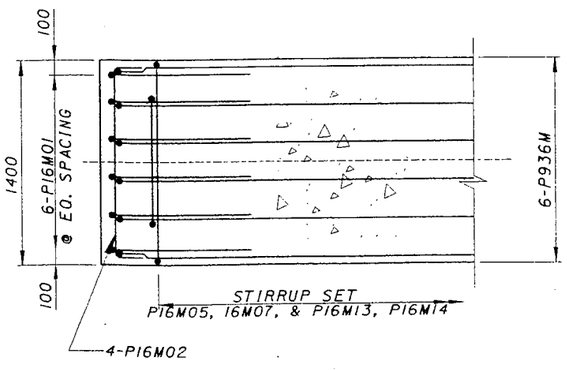
SECTION C / 91



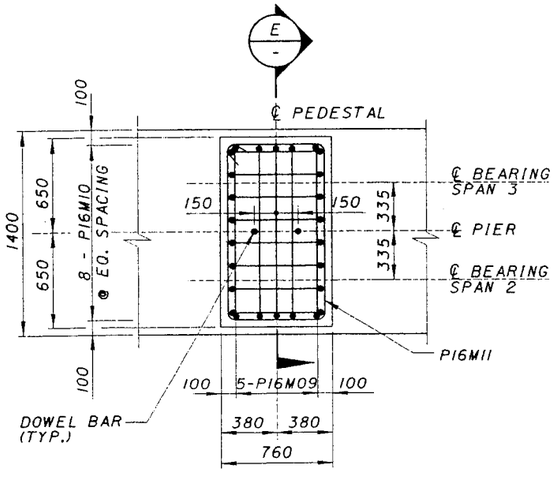
SECTION F / -



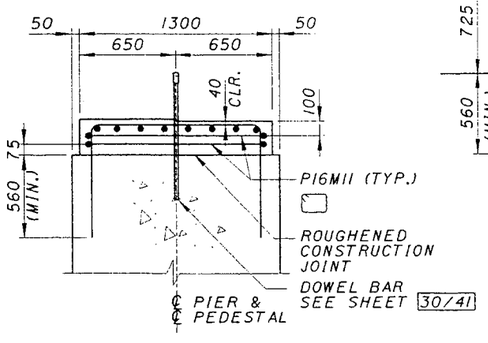
SECTION G / -



SECTION D / 91



DETAIL 1 / 91
PEDESTAL PLAN



NOTE: FOR PEDESTAL ELEVATIONS, SEE TABLE SHEET 7/41.

SECTION E / -

NOTES :

1. 102x152 STEEL BAR IS REQUIRED TO FIX THE SUPERSTRUCTURE TO THE SUBSTRUCTURE DURING AN EARTHQUAKE.
2. PERFORMED EXPANSION JOINT FILLER (P.E.J.F.) PER 708.1.2 IS TO BE EPOXY GLUED TO ALL SIDES OF THE 102x152 BAR AND THE SIDES OF THE EARTHQUAKE RESTRAINT.

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2120

REVISED	DATE	STRUCTURE FILE NUMBER
	12-02-99	3160661

DRAWN	REVIEWED
JAS	

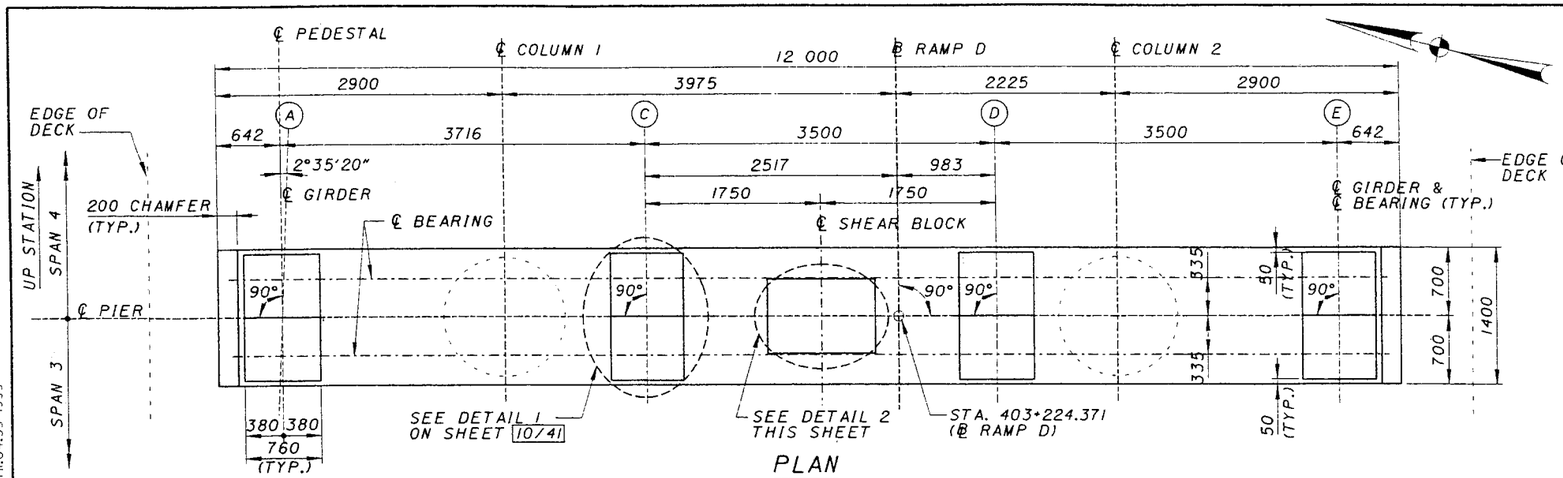
PREPARED	CHECKED
VJR	JWM

PIER 5D-10 FOOTING PLAN AND DETAILS
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

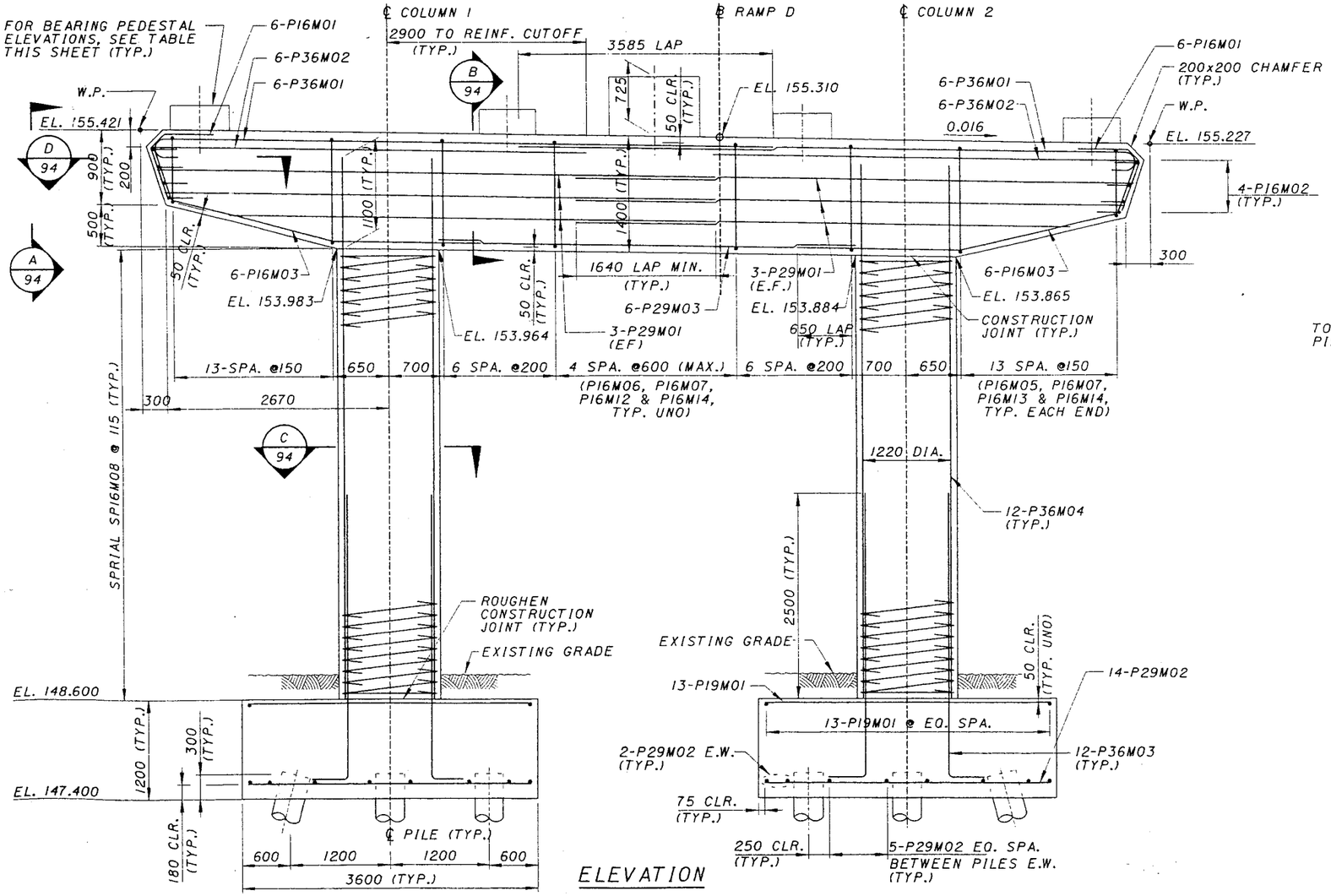
CITY OF CINCINNATI
CONTRACT NO. 75X5753

8 / 41

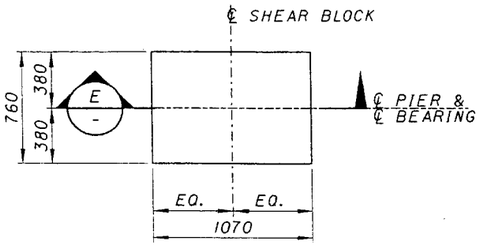
92 / 125



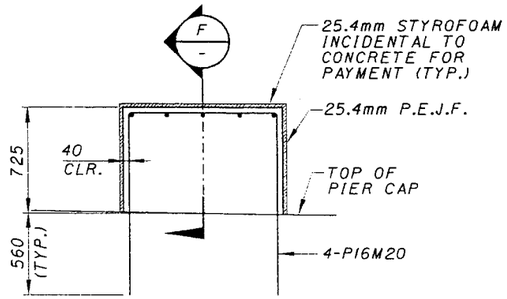
PLAN



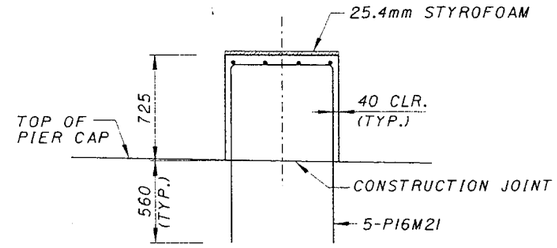
ELEVATION



DETAIL (2/-)



SECTION (E/-)



SECTION (F/-)

BEARING PEDESTAL ELEVATIONS		
GIRDER	SPAN 3	SPAN 4
A	155.713 ~~133.727~~	~~155.743~~ ~~165.758~~
C	~~155.653~~ ~~165.669~~	~~155.683~~ ~~133.699~~
D	~~155.597~~ ~~165.613~~	~~155.627~~ ~~155.643~~
E	~~155.571~~ ~~165.587~~	~~155.571~~ ~~165.587~~

NOTES :

1. SEE SHEET 3/41 FOR NOTES.
2. SEE SHEET 14/41 FOR REINFORCING SCHEDULE.
3. SEE SHEET 10/41 FOR FOOTING PLAN.

DESIGN AGENCY
DB
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

DRAWN	REVISED	DATE	REVISED
JAS		12-02-99	
PREPARED	CHECKED	STRUCTURE FILE NUMBER	
VJR	JWM	316066/	

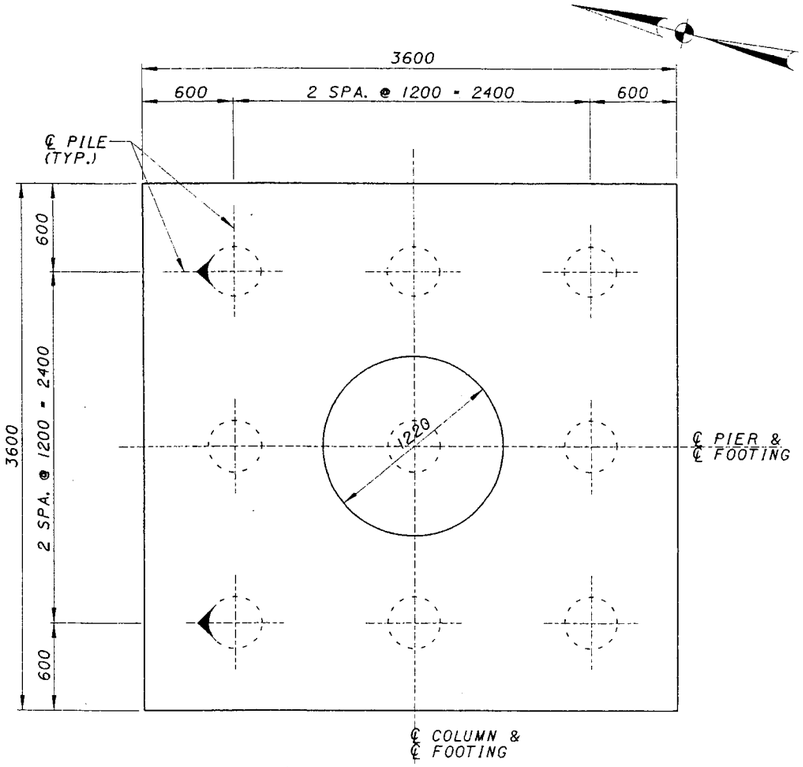
PIER 5D-11 PLAN AND ELEVATION
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

9/41

93/125

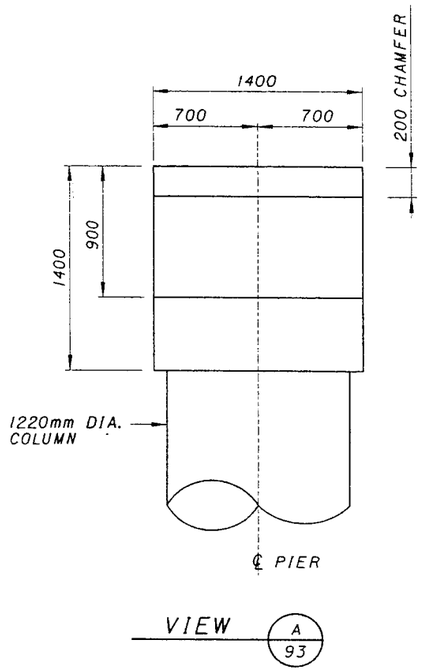
12/01/99 Wed Dec 11:04:53 1999
i:\fww\contracts\14\struct\bridge5c\5cpr1407.dgn:\BYERS_PRF\SOLUS4\PLOT\5cpr1407.prf



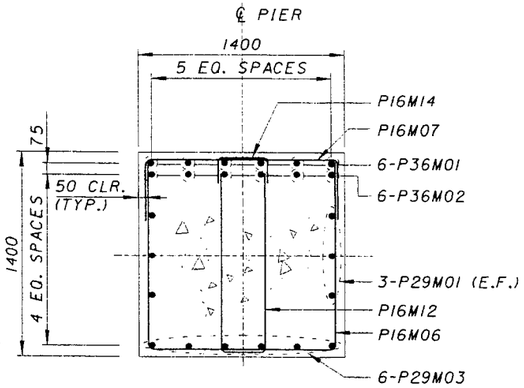
NOTES: ⌓ INDICATES BATTERED 1:4 PILES IN THE DIRECTION OF ARROWS

FOOTING PLAN

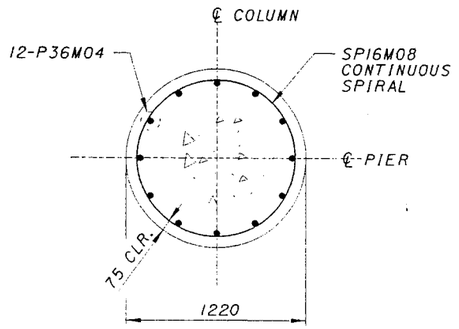
(FOOTING FOR COLUMN 1 SHOWN, FOOTING FOR COLUMN 2 OPPOSITE HAND)



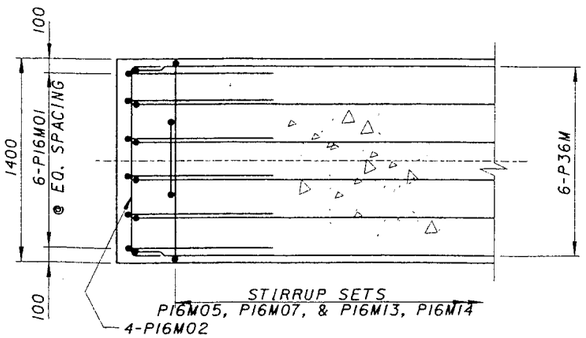
VIEW A / 93



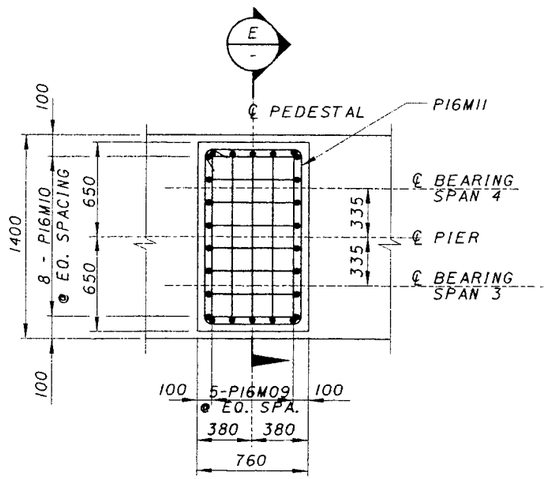
SECTION B / 93



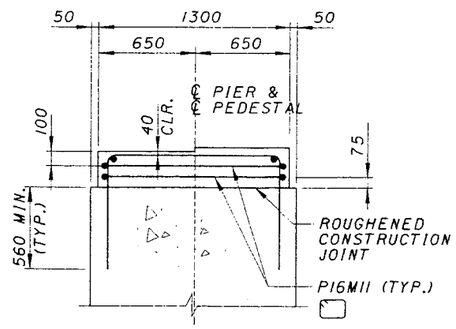
SECTION C / 93



SECTION D / 93



DETAIL PEDESTAL PLAN 1 / 93



NOTE: FOR PEDESTAL ELEVATIONS, SEE TABLE SHEET 9/41

SECTION E / -

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
1114 MAIN STREET, SUITE 2400
CINCINNATI, OH 45202-2720

DRAWN	REVISED	DATE
JAS		12-02-99
PREPARED	CHECKED	REVIEWED
V.J.R	JWM	

STRUCTURE FILE NUMBER 3/16066 I

PIER 5D-11 FOOTING PLAN AND DETAILS

BRIDGE NO. 5C

CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

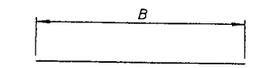
10/41

94/125

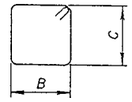
12/01/99 Wed Dec 11:05:24 1999

i:\fww\contracts\14\struct\bridge5c\5cpr1408.dgn:\BYERS_PRF\SOLUS4\PLOT\5cpr1408.prf

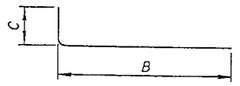
MARK	NUMBER	LENGTH (mm)	WEIGHT (kg)	TYPE	DIMENSIONS B	C	D	INC.	DEGREES P	DEGREES R	DESCRIPTION
PIER 5D-8											
P16M01	12	1 755	32.7	13	190	910	675		45°	63.4°	CAP
P16M02	8	2 690	33.4	11	1 468	650	650				CAP
P16M03	12 /1\	5 300	98.7	13	2 810	1 870	670		61.5°	10.1°	CAP
P16M05	28	2940 TO 3890	143.2	11	1 420	800 TO 1275	800 TO 1275	36			CAP
P16M06	17	3 940	104.0	11	1 420	1 300	1 300				CAP
P16M07	45	2 040	184.4	11	1 420	650	650				CAP
SP16M08	2	311 410	966.6	39	115	5 090	1 070				COLUMN
P16M09	63	1 220	119.3	11	550	375	375				CAP PEDESTAL
P16M10	20	2 215	68.8	11	645	825	825				CAP PEDESTAL
P16M12	50	2 105	163.3	11	535	825	825				CAP PEDESTAL
P16M13	10 /1\	2 880	44.7	4	680	680					CAP PEDESTAL
P16M14	28	2120 TO 3070	112.8	11	600	800 TO 1275	800 TO 1275	36			CAP
P16M15	17	3 120	82.3	11	600	1 300	1 300				CAP
P16M16	45	1 820	127.1	11	600	650	650				CAP
P16M17	24	8 250	307.3	1	8 250						PEDESTAL /1\
P16M18	4	1 820	11.3	1	1 820						CAP PEDESTAL
P16M19	8	1 190	14.8	11	570	350	350				CAP PEDESTAL
P16M20	8	3 365	41.8	11	985	1 230	1 230				CAP SHEAR BLOCK
P16M21	10	2 780	43.1	11	370	1 245	1 245				CAP SHEAR BLOCK
P19M01	52	3 450	401.0	1	3 450						FOOTING
P19M02	126	1 820	512.5	1	1 820						PEDESTAL
P29M01	12	8 520	517.3	1	8 520						CAP
P29M02	56	3 450	977.6	1	3 450						FOOTING
P32M01	6	7 080	272.0	1	7 080						CAP
P36M01	12	9 935	942.7	17	9 460						CAP
P36M02	12	6 470	613.9	1	6 470						CAP
P36M03	24	3 955	750.5	10	3 460	600					FOOTING
P36M04	24	6 120	1 161.4	1	6 120						COLUMN



TYPE 1



SEE STD HOOK DETAILS
TYPE 4



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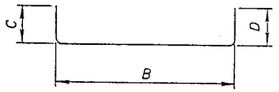
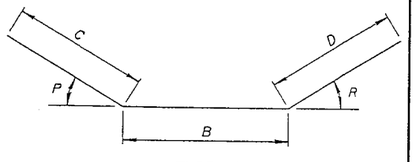
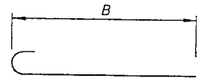


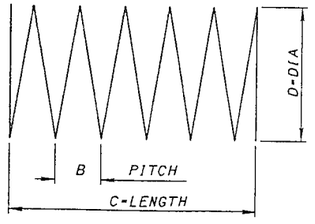
TYPE 11



TYPE 13

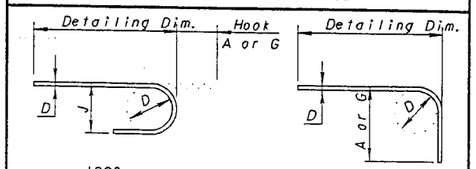


SEE STD HOOK DETAILS
TYPE 17



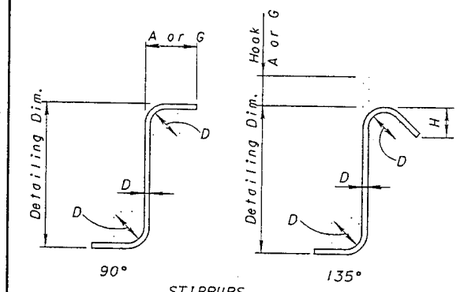
TYPE 39

STANDARD HOOK DETAILS



180° 90°

BAR SIZE		180° HOOKS A OR G	180° HOOKS J	90° HOOKS A OR G
#10	60	125	80	150
#13	80	150	105	200
#16	95	175	130	250
#19	115	200	155	300
#22	135	250	180	375
#25	155	275	205	425
#29	240	375	300	475
#32	275	425	335	550
#36	305	475	375	600
#43	465	675	550	775
#57	610	925	725	1050



90° 135°

STIRRUPS
(TIES SIMILAR)

RECOMMENDED STIRRUP & TIE HOOK DIMENSIONS

BAR SIZE	D	90° HOOKS A or G	135° HOOKS A or G	135° HOOKS H *
#10	40	105	105	65
#13	50	115	115	80
#16	65	155	140	95
#19	115	305	205	115
#22	135	355	230	135
#25	155	410	270	155

NOTES:

1. * DIMENSION IS APPROXIMATE.
2. HOOK STYLES DETAILED ON THIS SHEET ARE FOR ILLUSTRATION ONLY.
3. STANDARD BEND AND HOOK DIMENSIONS ARE NOT SHOWN, USE LENGTHS IN THESE TABLES FOR A OR G
4. ALL DIMENSIONS ARE IN MILLIMETERS (mm), EXCEPT AS NOTED.
5. ALL DIMENSIONS ARE OUT-TO-OUT.

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM /1\	ADDED BARS	12-22-99	JWM

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2200
CINCINNATI, OH 45202-2720

REVISED DATE 12-22-99
STRUCTURE FILE NUMBER 316061
DRAWN JAS
REVIEWED
PREPARED VJR
CHECKED TOM

BAR SCHEDULE - PIER 5D-8
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

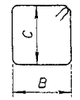
11/41

95/125

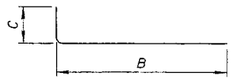
ADDENDUM NO. 1
DEC. 22, 1999

MARK	NUMBER	LENGTH (mm)	WEIGHT (kg)	TYPE	DIMENSIONS B	C	D	E	INC.	DEGREES P	DEGREES R	DESCRIPTION
PIER 5D-9												
P16M01	14	1 755	38.1	13	190	910	675			45°	63.4°	CAP
P16M02	8	2 490	30.9	11	1 268	650	650					CAP
P16M03	14	5 050	109.7	13	2 560	1 870	670			60.5°	11.1°	CAP
P16M05	34	2 820 TO 3 770	173.9	11	1 300	800 TO 1 275	800 TO 1 275		30			CAP
P16M06	21	3 820	94.9	11	1 300	1 300	1 300					CAP
P16M07	55	2 520	195.5	11	1 300	650	650					CAP
SP16M08	2	284 905	884.3	39	115	4 605	1 070					COLUMN
P16M09	25	2 755	106.9	11	1 185	825	825					CAP PEDESTAL
P16M10	40	2 215	88.6	11	645	825	825					CAP PEDESTAL
P16M11	10	3 960	61.5	4	1 220	680						CAP PEDESTAL
P16M12	21	3 120	77.5	11	600	1 300	1 300					CAP
P16M13	34	2 120 TO 3 070	136.9	11	600	800 TO 1 275	800 TO 1 275		30			CAP
P16M14	55	1 820	141.2	11	600	650	650					CAP
P16M20	4	3 395	21.1	11	985	1 245	1 245					CAP SHEAR BLOCK
P16M21	5	3 090	24.0	11	680	1 245	1 245					CAP SHEAR BLOCK
P19M01	52	3 450	401.0	1	3 450							FOOTING
P29M01	12	8 020	487.0	1	8 020							CAP
P29M02	56	3 450	977.6	1	3 450							FOOTING
P32M01	7	6 580	295.0	1	6 580							CAP
P36M01	14	9 435	1 044.4	17	8 960							CAP
P36M02	14	6 400	708.5	1	6 400							CAP
P36M03	24	3 955	1 346.4	10	3 460	600						FOOTING
P36M04	24	5 700	1 081.7	1	5 700							COLUMN

TYPE 1



SEE STD HOOK DETAILS
TYPE 4



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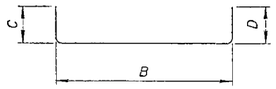
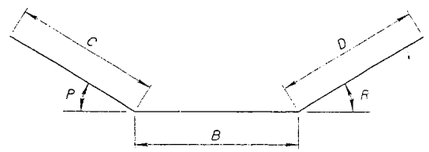
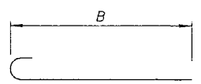


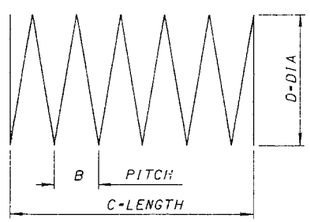
TYPE 11



TYPE 13

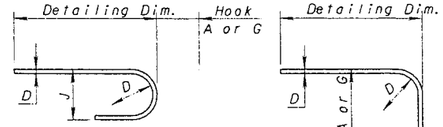


SEE STD HOOK DETAILS
TYPE 17

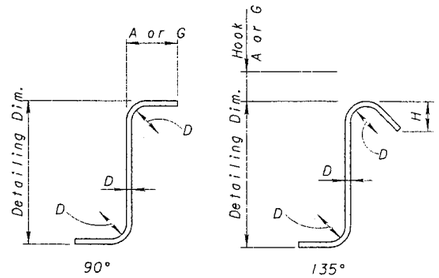


TYPE 39

STANDARD HOOK DETAILS



BAR SIZE		180° HOOKS A OR G	180° HOOKS J	90° HOOKS A OR G
#10	60	125	80	150
#13	80	150	105	200
#16	95	175	130	250
#19	115	200	155	300
#22	135	250	180	375
#25	155	275	205	425
#29	240	375	300	475
#32	275	425	335	550
#36	305	475	375	600
#43	465	675	550	775
#57	610	925	725	1050



STIRRUPS
(TIES SIMILAR)

RECOMMENDED STIRRUP & TIE HOOK DIMENSIONS

BAR SIZE	D	90° HOOKS A or G	135° HOOKS A or G	135° HOOKS H *
#10	40	105	105	65
#13	50	115	115	80
#16	65	155	140	95
#19	115	305	205	115
#22	135	355	230	135
#25	155	410	270	155

NOTES:

1. * DIMENSION IS APPROXIMATE.
2. HOOK STYLES DETAILED ON THIS SHEET ARE FOR ILLUSTRATION ONLY.
3. STANDARD BEND AND HOOK DIMENSIONS ARE NOT SHOWN, USE LENGTHS IN THESE TABLES FOR A OR G
4. ALL DIMENSIONS ARE IN MILLIMETERS (mm), EXCEPT AS NOTED.
5. ALL DIMENSIONS ARE OUT-TO-OUT.

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

DATE 12-02-99
REVISED
STRUCTURE FILE NUMBER 3160661
DRAWN JAS
REVIEWED
PREPARED VJR
CHECKED JWM

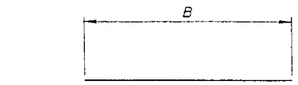
BAR SCHEDULE - PIER 5D-9
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

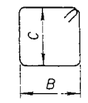
12/41

96/125

MARK	NUMBER	LENGTH (mm)	WEIGHT (kg)	TYPE	DIMENSIONS B	C	D	E	INC.	DEGREES P	DEGREES R	DESCRIPTION
PIER 5D-10												
P16M01	12	1 755	32.7	13	190	910	675			45°	63.4°	CAP
P16M02	8	2 490	30.9	11	1 268	650	650					CAP
P16M03	12	4 710	87.7	13	2 220	1 870	670			58.8°	12.7°	CAP
P16M05	30	2 820 TO 3 770	153.4	11	1 300	800 TO 1 275	800 TO 1 275		34			CAP
P16M06	20	3 820	118.6	11	1 300	1 300	1 300					CAP
P16M07	50	2 520	195.6	11	1 300	650	650					CAP
SP16M08	2	291 530	904.9	39	115	4 690	1 070					COLUMN
P16M09	25	2 755	106.9	11	1 185	825	825					CAP PEDESTAL
P16M10	40	2 215	88.6	11	645	825	825					CAP PEDESTAL
P16M11	10	3 960	61.5	4	1 220	680						CAP PEDESTAL
P16M12	20	3 120	96.8	11	600	1 300	1 300					CAP
P16M13	30	2 120 TO 3 070	120.8	11	600	800 TO 1 275	800 TO 1 275		34			CAP
P16M14	50	1 820	141.2	11	600	650	650					CAP
P16M20	8	3 395	42.2	11	985	1 245	1 245					CAP SHEAR BLOCK
P16M21	10	3 090	48.0	11	680	1 245	1 245					CAP SHEAR BLOCK
P19M01	52	3 450	401.0	1	3 450							FOOTING
P29M01	12	7 320	444.5	1	7 320							CAP
P29M02	56	3 450	977.6	1	3 450							FOOTING
P29M03	6	5 880	178.5	1	5 880							CAP
P36M01	12	8 735	828.8	17	8 260							CAP
P36M02	14	5 650	625.4	1	5 650							CAP
P36M03	24	3 955	668.0	10	3 460	600						FOOTING
P36M04	24	5 790	1 098.7	1	5 790							COLUMN

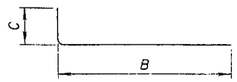


TYPE 1

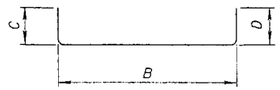


SEE STD HOOK DETAILS

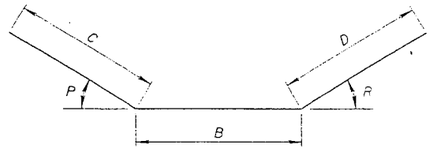
TYPE 4



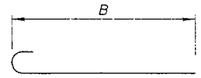
TYPE 10



TYPE 11

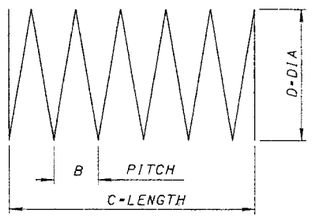


TYPE 13



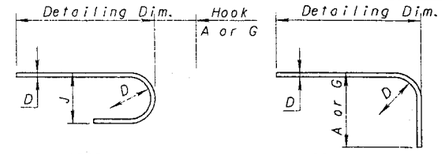
SEE STD HOOK DETAILS

TYPE 17

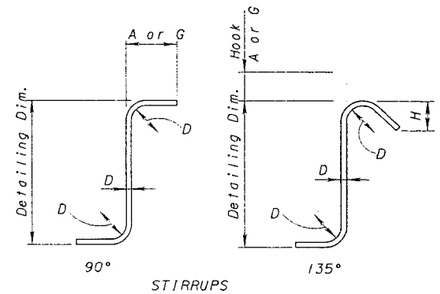


TYPE 39

STANDARD HOOK DETAILS



BAR SIZE		180° HOOKS A OR G	180° HOOKS J	90° HOOKS A OR G
#10	60	125	80	150
#13	80	150	105	200
#16	95	175	130	250
#19	115	200	155	300
#22	135	250	180	375
#25	155	275	205	425
#29	240	375	300	475
#32	275	425	335	550
#36	305	475	375	600
#43	465	675	550	775
#57	610	925	725	1050



STIRRUPS
(TIES SIMILAR)

RECOMMENDED STIRRUP & TIE HOOK DIMENSIONS

BAR SIZE	D	90° HOOKS A or G	135° HOOKS A or G	135° HOOKS H *
#10	40	105	105	65
#13	50	115	115	80
#16	65	155	140	95
#19	115	305	205	115
#22	135	355	230	135
#25	155	410	270	155

NOTES:

1. * DIMENSION IS APPROXIMATE.
2. HOOK STYLES DETAILED ON THIS SHEET ARE FOR ILLUSTRATION ONLY.
3. STANDARD BEND AND HOOK DIMENSIONS ARE NOT SHOWN, USE LENGTHS IN THESE TABLES FOR A OR G
4. ALL DIMENSIONS ARE IN MILLIMETERS (mm), EXCEPT AS NOTED.
5. ALL DIMENSIONS ARE OUT-TO-OUT.

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

REVISED	DATE 12-02-99	STRUCTURE FILE NUMBER 316066 1
DRAWN JAS	REVIEWED VJR	
PREPARED VJR	CHECKED JWM	

BAR SCHEDULE - PIER 5D-10
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

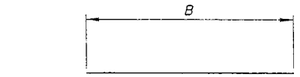
CITY OF CINCINNATI
CONTRACT NO. 75X5753

13/41

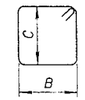
97/125

12/01/99 Wed Dec 11:06:47 1999
i:\fww\contracts\14\struct\bridge5c\5cpr14ll.dgn i:\BYERS.PRF\SOLUS4\PLOT\5cpr14ll.prf

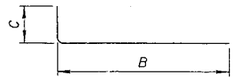
MARK	NUMBER	LENGTH (mm)	WEIGHT (kg)	TYPE	DIMENSIONS B	C	D	E	INC.	DEGREES P	DEGREES R	DESCRIPTION
PIER 5D-11												
P16M01	12	1 755	32.7	13	190	910	675			45°	63.4°	CAP
P16M02	8	2 490	30.9	11	1 268	650	650					CAP
P16M03	12	4 565	85.0	13	2 075	1 870	670			57.9°	13.6°	CAP
P16M05	28	2 820 TO 3 770	143.2	11	1 300	800 TO 1 275	800 TO 1 275		36			CAP
P16M06	17	3 820	100.8	11	1 300	1 300	1 300					CAP
P16M07	45	2 520	176.0	11	1 300	650	650					CAP
SP16M08	2	331 288	1 028.3	39	115	5 470	1 070					COLUMN
P16M09	20	2 755	85.5	11	1 185	825	825					CAP PEDESTAL
P16M10	32	2 215	110.0	11	645	825	825					CAP PEDESTAL
P16M11	8	3 960	49.2	4	1 220	680						CAP PEDESTAL
P16M12	17	3 120	82.3	11	600	1 300	1 300					CAP
P16M13	28	2 120 TO 3 070	112.8	11	600	800 TO 1 275	800 TO 1 275		36			CAP
P16M14	45	1 820	127.1	11	600	650	650					CAP
P16M20	4	3 395	21.1	11	985	1 245	1 245					CAP SHEAR BLOCK
P16M21	5	3 090	24.0	11	680	1 245	1 245					CAP SHEAR BLOCK
P19M01	52	3 450	401.0	1	3 450							FOOTING
P29M01	12	6 720	408.0	1	6 720							CAP
P29M02	56	3 450	977.6	1	3 450							FOOTING
P29M03	6	4 980	151.2	1	4 980							CAP
P36M01	12	8 735	828.8	17	7 660	475						CAP
P36M02	12	5 750	502.9	1	5 750							CAP
P36M03	24	3 955	750.5	10	3 460	600						FOOTING
P36M04	24	6 480	1 229.7	1	6 480							COLUMN
PIER 4-4												
P16M01	6	10 335	96.2	1	10 335							PEDESTAL
P16M02	3	6 070	28.3	1	6 070							PEDESTAL
P16M03	3	4 625	21.5	1	4 625							PEDESTAL
P16M04	8	1 690	21.0	11	550	610	610					PEDESTAL
P16M05	4	2 360	14.7	11	640	900	900					PEDESTAL
P16M20	3	2 795	13.0	11	985	945	945					CAP SHEAR BLOCK
P16M21	5	2 180	16.9	11	370	945	945					CAP SHEAR BLOCK
P19M01	44	2 240	153.0	11	520	900	900					PEDESTAL



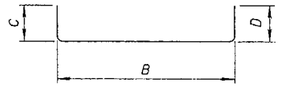
TYPE 1



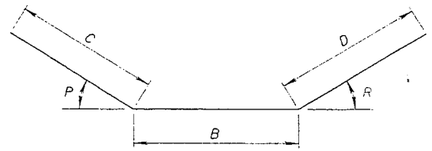
SEE STD HOOK DETAILS
TYPE 4



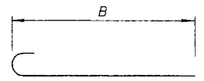
TYPE 10



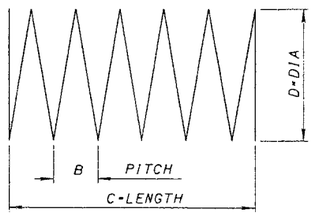
TYPE 11



TYPE 13

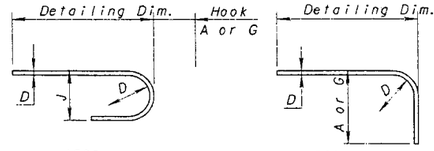


SEE STD HOOK DETAILS
TYPE 17

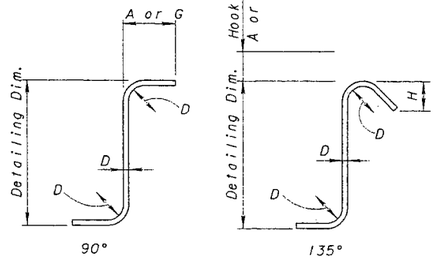


TYPE 39

STANDARD HOOK DETAILS



BAR SIZE		180° HOOKS A OR G	180° HOOKS J	90° HOOKS A OR G
#10	60	125	80	150
#13	80	150	105	200
#16	95	175	130	250
#19	115	200	155	300
#22	135	250	180	375
#25	155	275	205	425
#29	240	375	300	475
#32	275	425	335	550
#36	305	475	375	600
#43	465	675	550	775
#57	610	925	725	1050



STIRRUPS
(TIES SIMILAR)

RECOMMENDED STIRRUP & TIE HOOK DIMENSIONS

BAR SIZE	D	90° HOOKS A or G	135° HOOKS A or G	135° HOOKS H *
#10	40	105	105	65
#13	50	115	115	80
#16	65	155	140	95
#19	115	305	205	115
#22	135	355	230	135
#25	155	410	270	155

NOTES:

1. * DIMENSION IS APPROXIMATE.
2. HOOK STYLES DETAILED ON THIS SHEET ARE FOR ILLUSTRATION ONLY.
3. STANDARD BEND AND HOOK DIMENSIONS ARE NOT SHOWN, USE LENGTHS IN THESE TABLES FOR A OR G
4. ALL DIMENSIONS ARE IN MILLIMETERS (mm), EXCEPT AS NOTED.
5. ALL DIMENSIONS ARE OUT-TO-OUT.

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

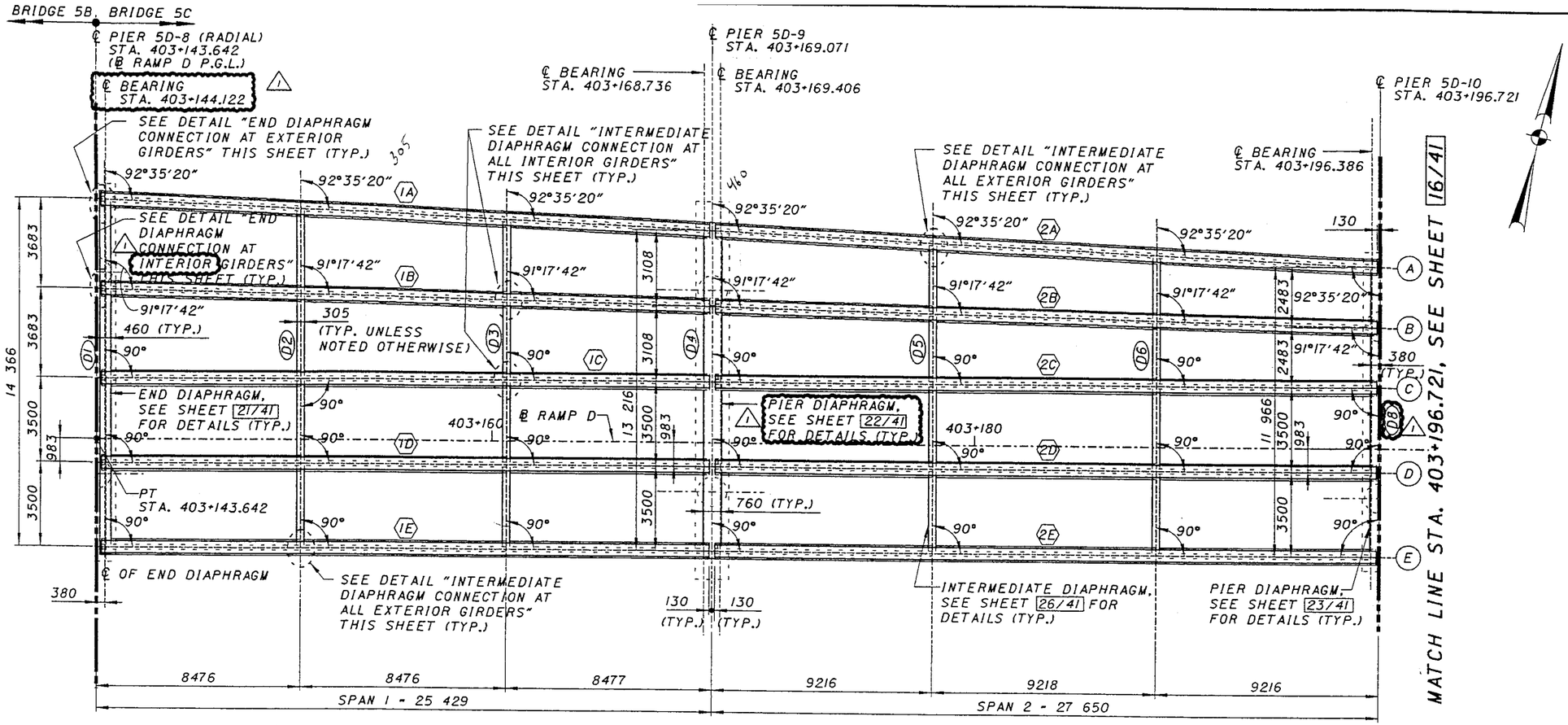
DATE 12-02-99
STRUCTURE FILE NUMBER 316066
DRAWN JAS
REVIEWED
PREPARED VJR
CHECKED JWM

BAR SCHEDULE - PIERS 5D-11, 4-4 (PEDESTAL)
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

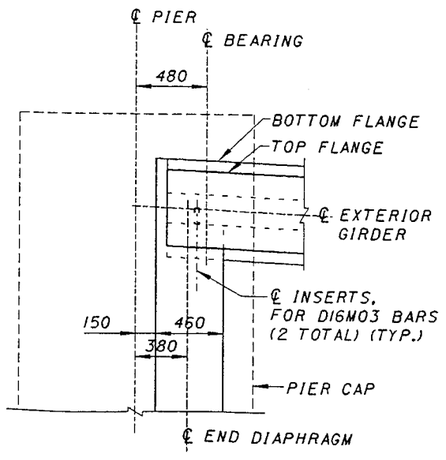
CITY OF CINCINNATI
CONTRACT NO. 75X5753

14/41

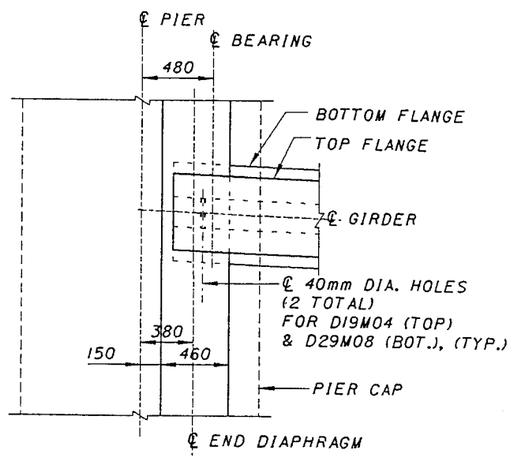
98/125



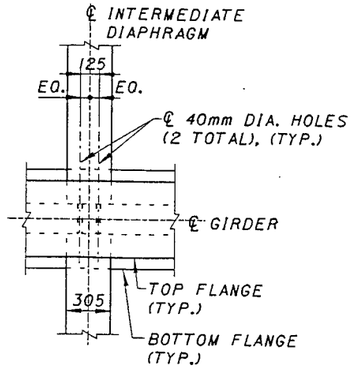
PLAN



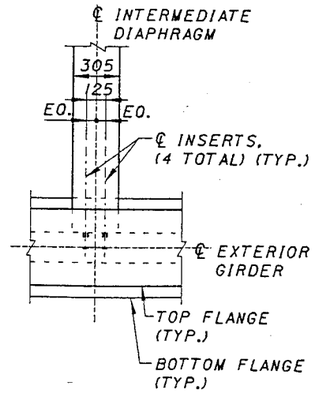
END DIAPHRAGM CONNECTION AT EXTERIOR GIRDERS



END DIAPHRAGM CONNECTION AT INTERIOR GIRDERS



INTERMEDIATE DIAPHRAGM CONNECTION AT INTERIOR GIRDERS



INTERMEDIATE DIAPHRAGM CONNECTION AT EXTERIOR GIRDERS

LEGEND :

(D1) DIAPHRAGM TYPE

(2E) I-GIRDER TYPE

NOTES :

1. SEE SHEET 37 & 38/125 FOR GENERAL NOTES.
2. SEE SHEET 39/125 FOR GEOMETRIC LAYOUT.
3. SEE SHEET 17 THRU 19/41 FOR I-GIRDER DETAIL AND SPAN LENGTHS.
4. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
5. DIMENSION SHOWN IS ESTIMATED AT 20°C (1) AND AT THE TIME OF ERECTION. THIS DIMENSION WILL CHANGE OVER TIME DUE TO SHINKAGE AND CREEP.

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	CORRECTED STATIONING	12-22-99	JWM

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2120

REVISED DATE 12-22-99
STRUCTURE FILE NUMBER 316066 /

DRAWN JAS
REVIEWED
PREPARED TOM
CHECKED VPH

FRAMING PLAN, 1 OF 2
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

15/41

99/125

ADDENDUM NO. 1
DEC. 22, 1999

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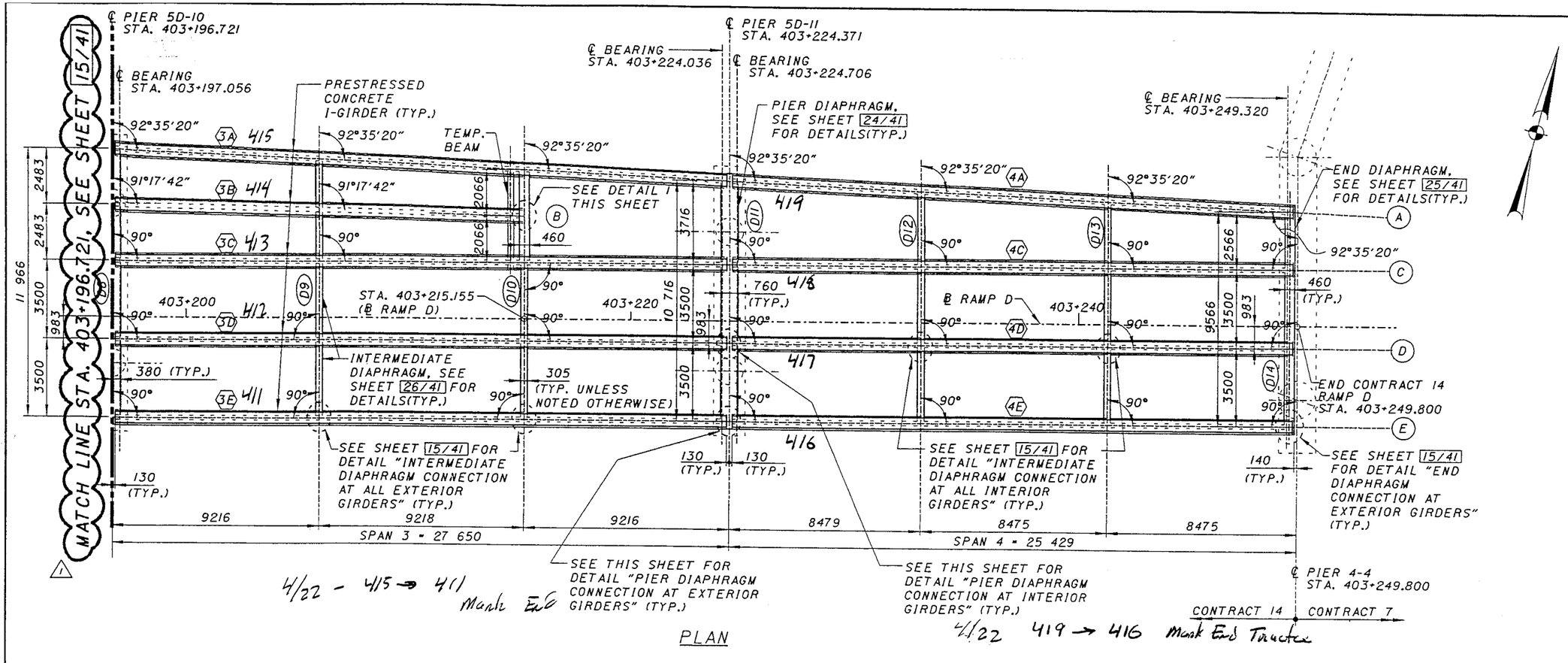
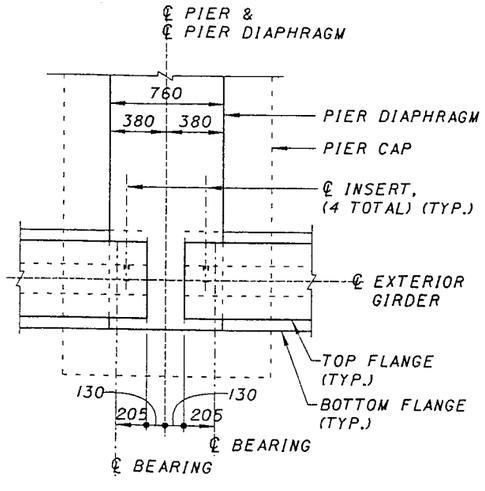
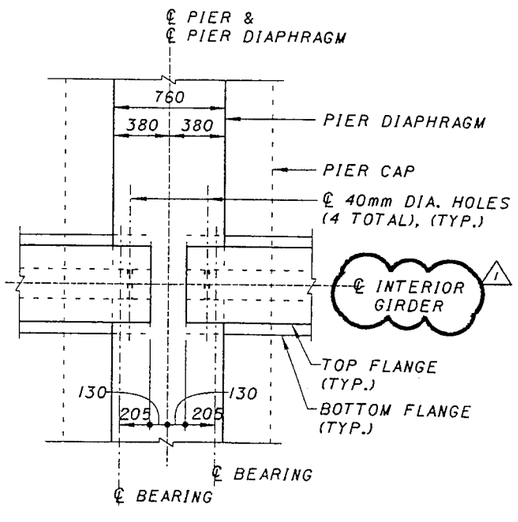
12/21/99 Tue Dec 21 13:11:19 1999



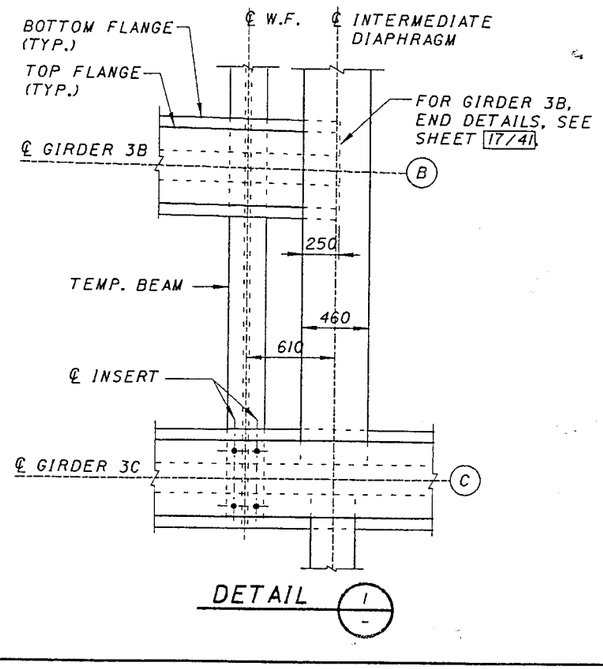
PLAN



PIER DIAPHRAGM CONNECTION AT EXTERIOR GIRDERS



PIER DIAPHRAGM CONNECTION AT INTERIOR GIRDERS



DETAIL 1

NOTES :

1. SEE SHEET 15/41 FOR NOTES AND LEGEND.
2. SEE SHEET 39/125 FOR GEOMETRIC LAYOUT.
3. SEE SHEET 17 THRU 19/41 FOR I-GIRDER DETAILS.
4. SEE SHEET 21 THRU 27/41 FOR DIAPHRAGM DETAILS.

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	CORRECTED REFERENCES	12-22-99	JWM

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

REVISED DATE 12-22-99
STRUCTURE FILE NUMBER 3160661
DRAWN JAS
REVIEWED
PREPARED TOH
CHECKED VPH

FRAMING PLAN, 2 OF 2
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

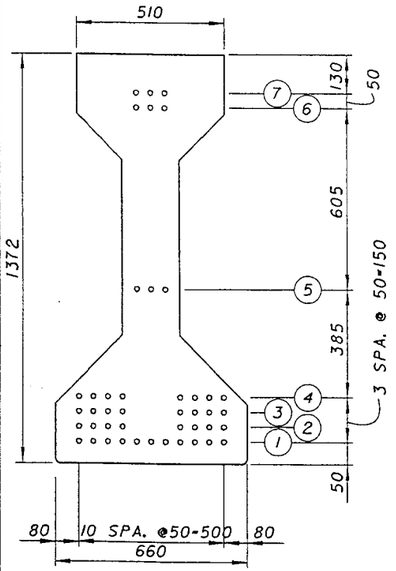
CITY OF CINCINNATI
CONTRACT NO. 75X5753

16/41

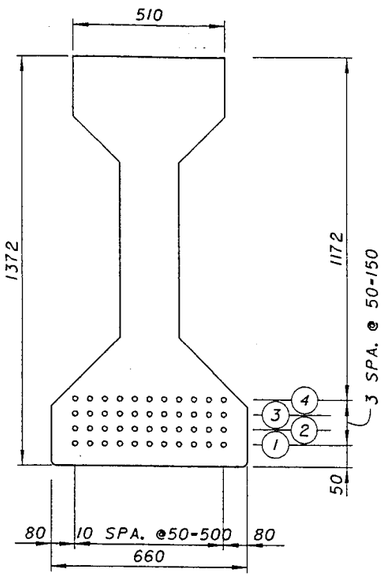
100/125

ADDENDUM NO. 1
DEC. 22, 1999

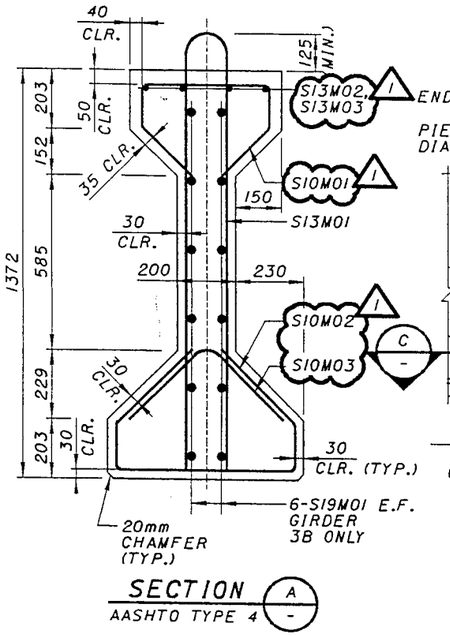
i:\fww\contracts\14\struct\bridge5c\5cfpl402.dgn:\BYERS_PRF\HP55NPLOT\5cfpl402.prf 12/21/99 Tue Dec 21 08:36:17 1999



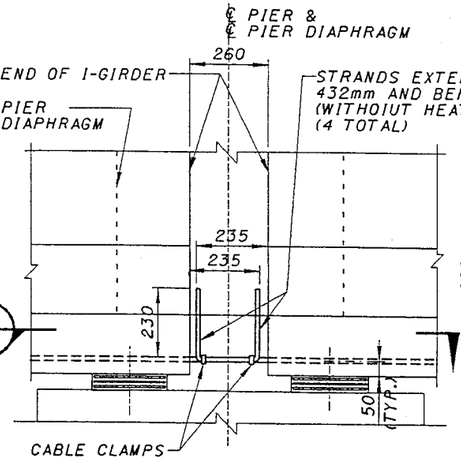
SECTION A - AASHTO TYPE 4



SECTION B - AASHTO TYPE 4

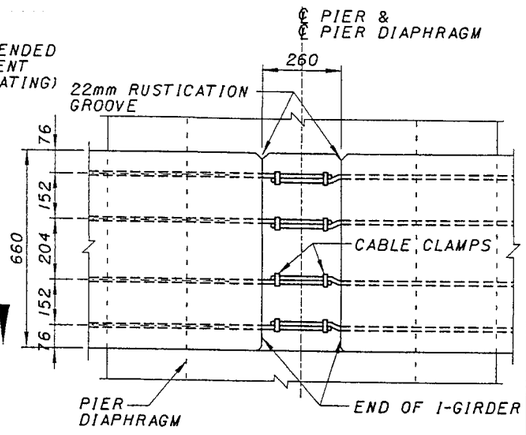


SECTION A - AASHTO TYPE 4



STRAND SPLICE DETAIL

(THIS DETAIL OCCURES AT PIERS 5D-9, 5D-10, AND 5D-11)



SECTION C -

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REVISED BAR MARKS	12-22-99	VPH

DESIGN AGENCY: PARSONS BRINCKERHOFF, INC. 312 ELM STREET, SUITE 2300 CINCINNATI, OH 45202-2720

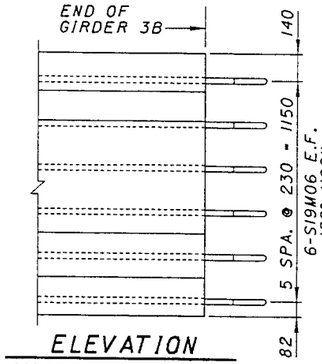
REVISED DATE 12-22-99 — STRUCTURE FILE NUMBER 3160661

DRAWN JAS — REVIEWED

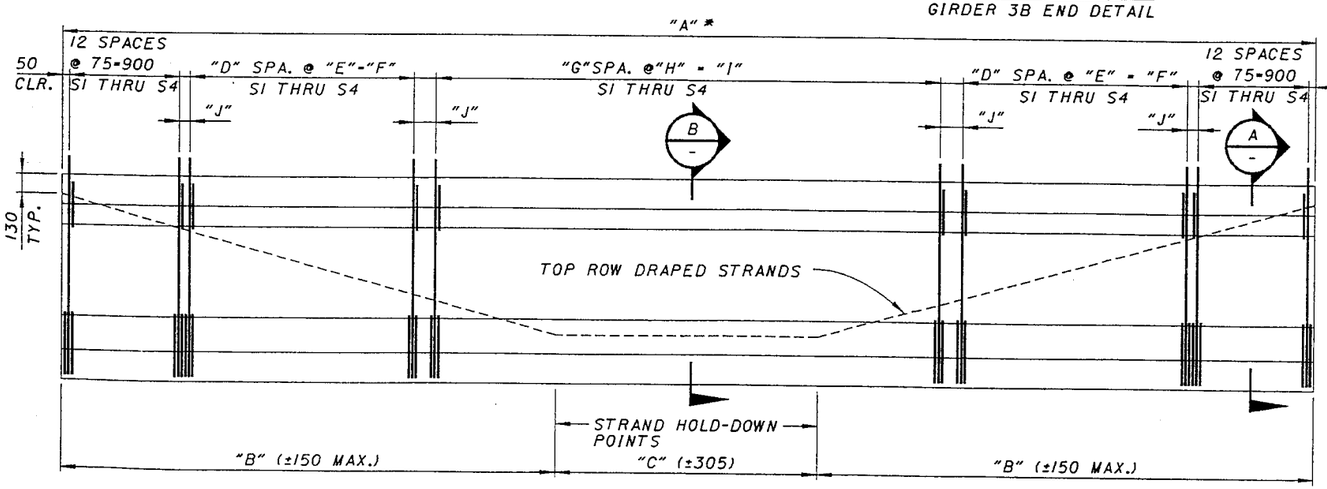
PREPARED VPH — CHECKED TOM

NUMBER OF 1/2" DIA. SPECIAL - 7 WIRE STRANDS INDICATED ROWS

BEAM MARK	END (SECTION A-A)							MIDSPAN (SECTION B-B)							INTIAL PRESTRESS FORCE/STRAND (kN)
	①	②	③	④	⑤	⑥	⑦	①	②	③	④	⑤	⑥	⑦	
1E, 4A, 4E	11	8	2			3	3	11	11	5					150.43
1D, 3A, 4D	11	8	8			3	3	11	11	11					150.43
2A, 2B, 4C	11	8	4			3	3	11	11	7					150.43
1B,1C,2C,2E,3E	11	8	6			3	3	11	11	9					150.43
2D, 3D	11	8	8		3	3	3	11	11	11	3				150.43
3B	11	6					3	11	9						150.43
1A	11	8				3	3	11	11	3					150.43
3C	9	8	8	2	2	3	3	11	11	11	2				150.43



ELEVATION
GIRDER 3B END DETAIL



ELEVATION

* DIMENSIONS ARE HORIZONTAL, INCREASE DIMENSION DUE TO HORIZONTAL SLOPE

BEAM DIMENSIONS

BEAM MARK	DIMENSIONS										APPROXIMATE WEIGHT (kg)
	A	B	C	D	E	F	G	H	I	J	
1A	25 129	10 050	5 029	31	150	4 650	45	300	13 500	107	30 735
1B	25 110	10 045	5 020	30	150	6 400	34	300	10 200	52	30 712
1C	25 104	10 040	5 024	29	140	4 060	49	300	14 700	96	30 705
1D	25 104	10 040	5 024	29	140	4 060	49	300	14 700	96	30 705
1E	25 104	10 040	5 024	27	150	4 050	49	300	14 700	101	30 705
2A	27 418	10 970	5 478	12	145	1 740	72	300	21 908	109	33 535
2B	27 397	10 960	5 477	12	150	1 800	72	300	21 600	74	33 509
2C	27 390	10 955	5 480	30	150	4 500	54	300	16 200	73	33 501
2D	27 390	10 955	5 480	31	140	4 340	55	300	16 500	77	33 501
2E	27 390	10 955	5 480	12	140	1 680	73	300	21 900	57	33 501
3A	27 418	10 970	5 478	12	145	1 740	72	300	21 900	109	33 535
3B	17 924	7 170	3 584	6	145	870	47	300	14 100	46	21 923
3C	27 390	10 955	5 480	12	150	1 800	72	300	21 600	73	33 501
3D	27 390	10 955	5 480	31	140	4 340	55	300	16 500	77	33 501
3E	27 390	10 955	5 480	12	140	1 680	73	300	21 900	57	33 501
4A	25 049	10 020	5 009	27	150	4 050	49	300	14 700	87	30 638
4C	25 024	10 010	5 004	29	140	4 060	49	300	14 700	76	30 607
4D	25 024	10 010	5 004	29	140	4 060	49	300	14 700	76	30 607
4E	25 024	10 010	5 004	27	150	4 050	49	300	14 700	81	30 607

NOTES:

1. LENGTHS ARE MEASURED HORIZONTALLY. FOR LENGTHS ALONG GIRDER, SEE SHEET 18/41.
2. THE GIRDERS SHALL BE FABRICATED 20mm LONGER THAN REQUIRED TO COMPENSATE FOR THE ELASTIC SHORTENING DUE TO PRESTRESS AS WELL AS CREEP AND SHRINKAGE.
3. FOR INSERT AND DIAMETER LOCATION, SEE SHEET 18/41.
4. FOR BAR BEND DIAGRAM, SEE SHEET 19/41.
5. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

ADDENDUM NO. 1
DEC. 22, 1999

PRESTRESSED CONCRETE I-GIRDER DETAILS, 1 OF 2
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

17/41

101/125

Tue Dec 21 08:38:38 1999

12/21/99

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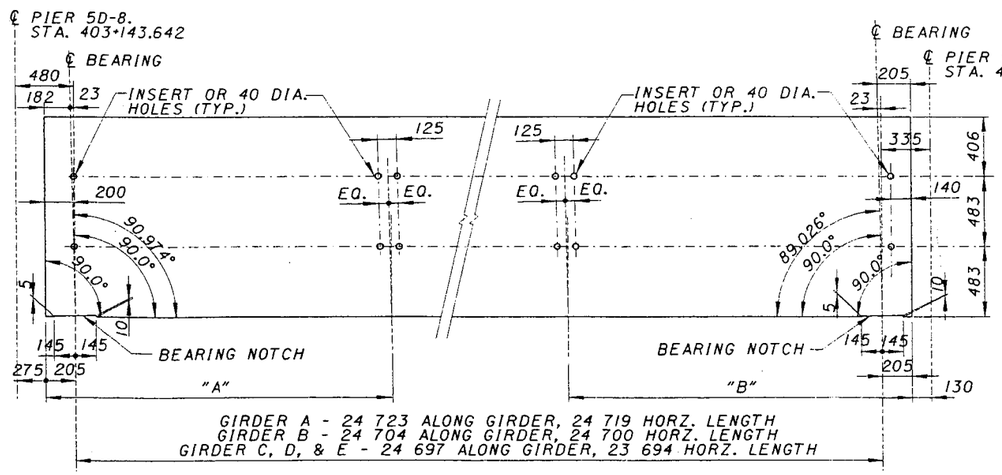
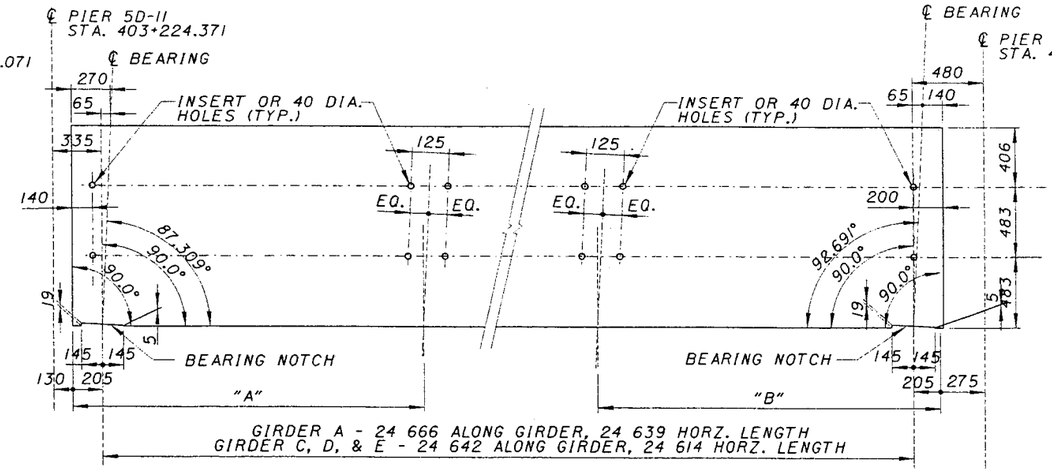
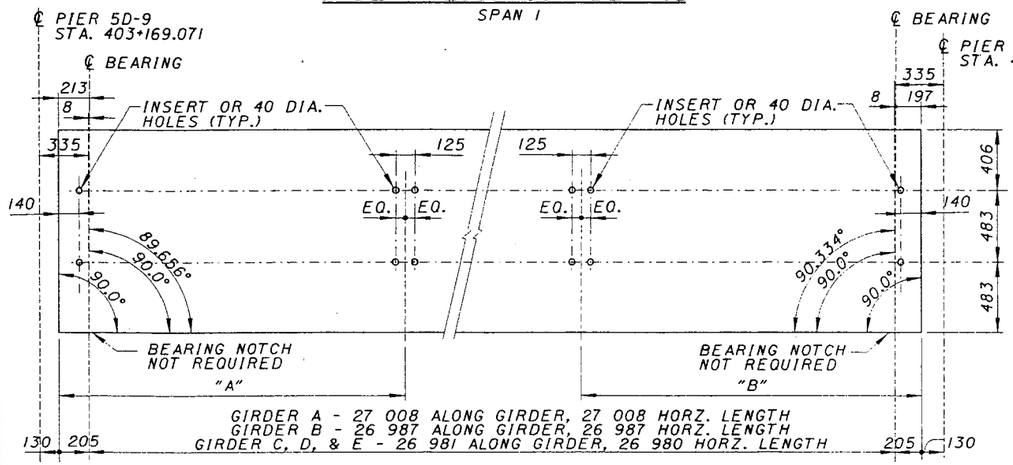


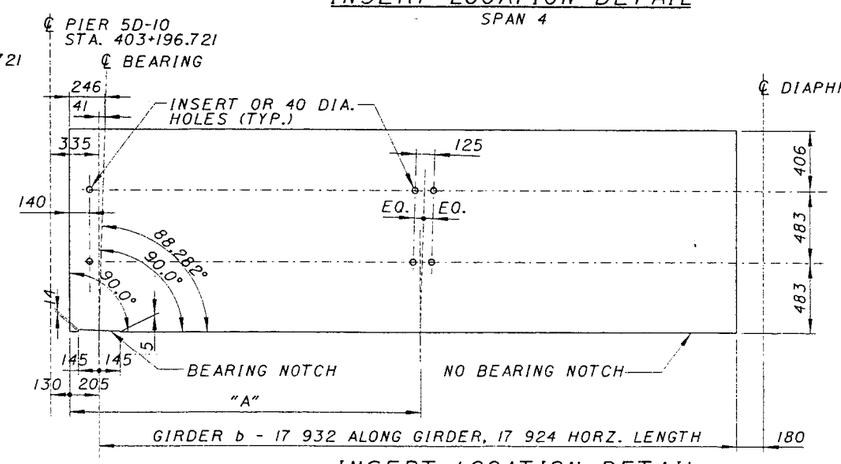
INSERT LOCATION DETAIL
SPAN 1



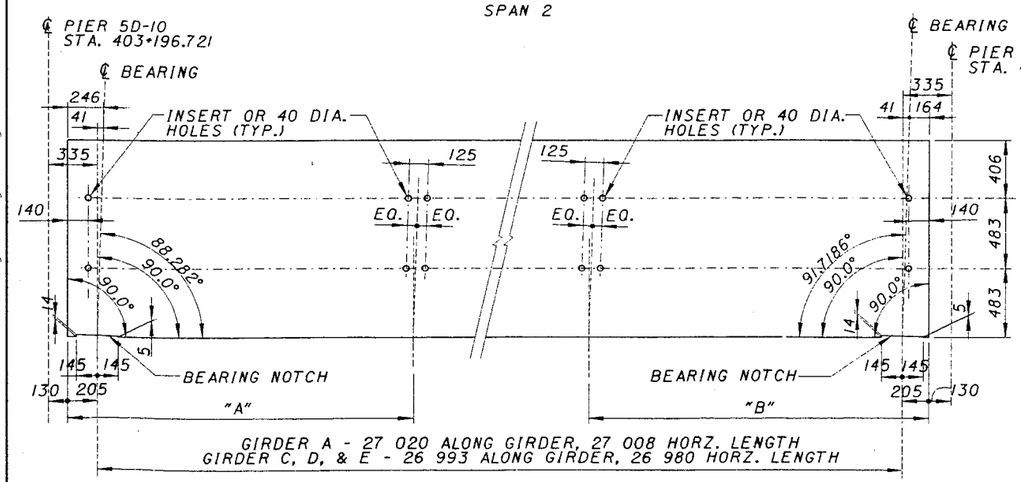
INSERT LOCATION DETAIL
SPAN 4



INSERT LOCATION DETAIL
SPAN 2



INSERT LOCATION DETAIL
SPAN 3



INSERT LOCATION DETAIL
SPAN 3

INSERT LOCATION DIMENSIONS

SPAN	GIRDER	"A"	"B"
1	1A	8204	8350
1	1B	8204	8350
1	1C	8202	8348
1	1D	8202	8348
1	1E	8202	8348
2	2A	9088	9088
2	2B	9088	9088
2	2C	9086	9086
2	2D	9086	9086
2	2E	9086	9086
3	3A	9099	9099
3	3B	9099	-
3	3C	9090	9090
3	3D	9090	9090
3	3E	9090	9090
4	4A	8366	8217
4	4C	8358	8209
4	4D	8358	8209
4	4E	8358	8209

NOTES:

1. SEE SHEET 17/41 FOR NOTES.

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2120

PREPARED	DRAWN	REVISED	DATE
VPH	JAS		12-02-99
CHECKED	REVIEWED	STRUCTURE FILE NUMBER	
TOM		3760661	

PRESTRESSED CONCRETE I-GIRDER DETAILS, 2 OF 2
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

18/41

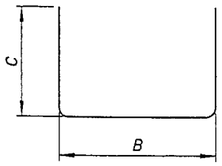
102/125

MARK	NUMBER	LENGTH (mm)	TYPE	DIMENSIONS (mm) A	B	C	D	E			R	R Degrees
D16M01			1		205	450						
D16M02			1		205	1320						
D16M30			1		360	450						
D16M31			1		360	1320						
D16M34			1		205	470						
D16M35			1		360	1330						
D16M36			1		360	1080						
D16M37			1		860	660						
D16M41			1		660	460						
D16M42			1		660	1320						
D16M43			1		660	1130						
D16M44			1		640	560						
S10M01	2484	720	3		430	140	135	135				
S10M02	2484	1020	3		600	155	220	220				
S10M03	2484	410	4		230	230						
S13M01	2848	2910	2			1465						
S13M02	224	9145	5									
S13M03	40	1600	5									
S19M01	12	765	6		565	200						

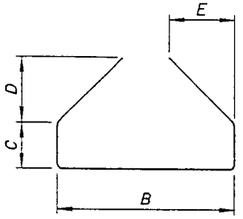
1

GIRDER	S10M01	S10M02	S10M03	S13M01	S13M02	S13M03	S19M01
1A	136	136	136	136	12		
1B	123	123	123	123	12		
1C	136	136	136	136	12		
1D	136	136	136	136	12		
1E	142	142	142	142	12		
2A	125	125	125	125	12	4	
2B	125	125	125	125	12	4	
2C	143	143	143	143	12	4	
2D	146	146	146	146	12	4	
2E	126	126	126	126	12	4	
3A	125	125	125	125	12	4	
3B	88	88	88	88	8	4	12
3C	125	125	125	125	12	4	
3D	146	146	146	146	12	4	
3E	126	126	126	126	12	4	
4A	132	132	132	132	12		
4C	136	136	136	136	12		
4D	136	136	136	136	12		
4E	132	132	132	132	12		

1

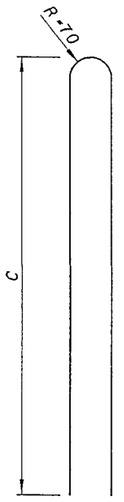


TYPE 1



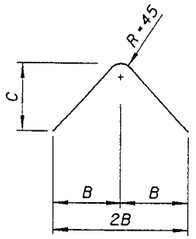
TYPE 3
S2-S10M01
S3-S10M02

1



TYPE 2
S1-13M01

1



TYPE 4
S4-S10M03

SEE STD HOOK DETAILS

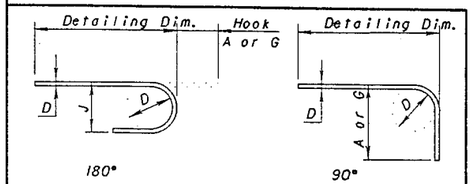
TYPE 5
S13M02
S13M03

1

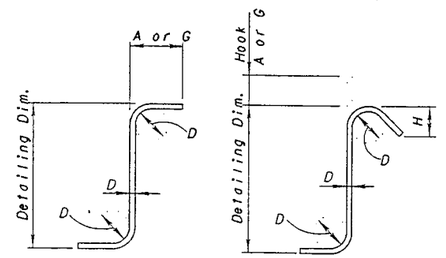
TYPE 6
S5-S19M01

1

STANDARD HOOK DETAILS



BAR SIZE		180° HOOKS A OR G	180° HOOKS J	90° HOOKS A OR G
#10	60	125	80	150
#13	80	150	105	200
#16	95	175	130	250
#19	115	200	155	300
#22	135	250	180	375
#25	155	275	205	425
#29	240	375	300	475
#32	275	425	335	550
#36	305	475	375	600
#43	465	675	550	775
#57	610	925	725	1050



STIRRUPS
(TIES SIMILAR)

RECOMMENDED STIRRUP & TIE HOOK DIMENSIONS

BAR SIZE	D	90° HOOKS A or G	135° HOOKS A or G	135° HOOKS H *
#10	40	105	105	65
#13	50	115	115	80
#16	65	155	140	95
#19	115	305	205	115
#22	135	355	230	135
#25	155	410	270	155

NOTES:

1. * DIMENSION IS APPROXIMATE.
2. HOOK STYLES DETAILED ON THIS SHEET ARE FOR ILLUSTRATION ONLY.
3. STANDARD BEND AND HOOK DIMENSIONS ARE NOT SHOWN. USE LENGTHS IN THESE TABLES FOR A OR G
4. ALL DIMENSIONS ARE IN MILLIMETERS (mm), EXCEPT AS NOTED.
5. ALL DIMENSIONS ARE OUT-TO-OUT.
6. ALL REINFORCING STEEL SHALL BE EPOXY COATED WITH MINIMUM YIELD STRENGTH OF 400MPa.

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REVISE BAR MARKS	12-22-99	VPH

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
115 E. FIFTH STREET, SUITE 2000
CINCINNATI, OH 45202-2720

PREPARED	DRAWN	CHECKED	REVISED	DATE	STRUCTURE FILE NUMBER
TOM	JAS	VPH		12-22-99	316066 1

REVIEWED

BAR BEND DIAGRAMS-DIAPHRAGMS
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

19/41

103/125

ADDENDUM NO. 1
DEC. 22, 1999

12/21/99 Tue Dec 21 11:46:52 1999

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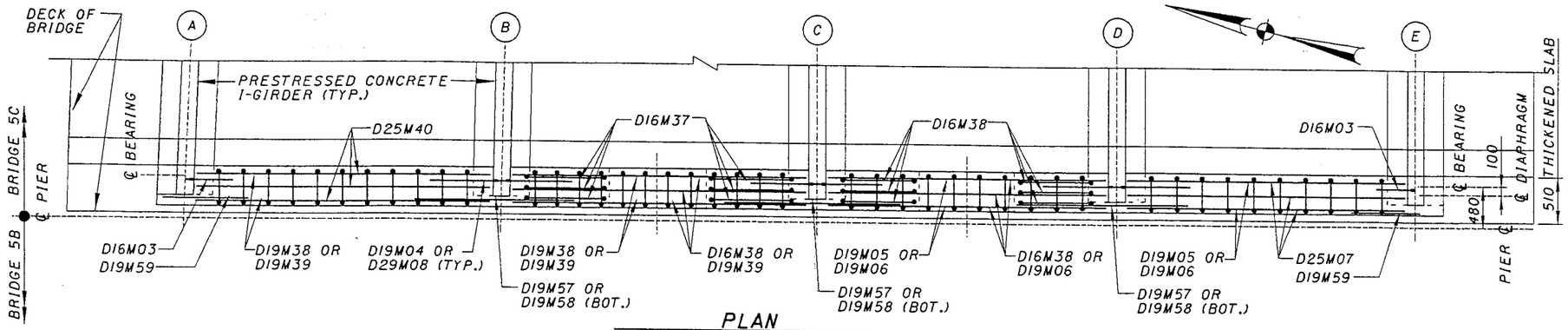
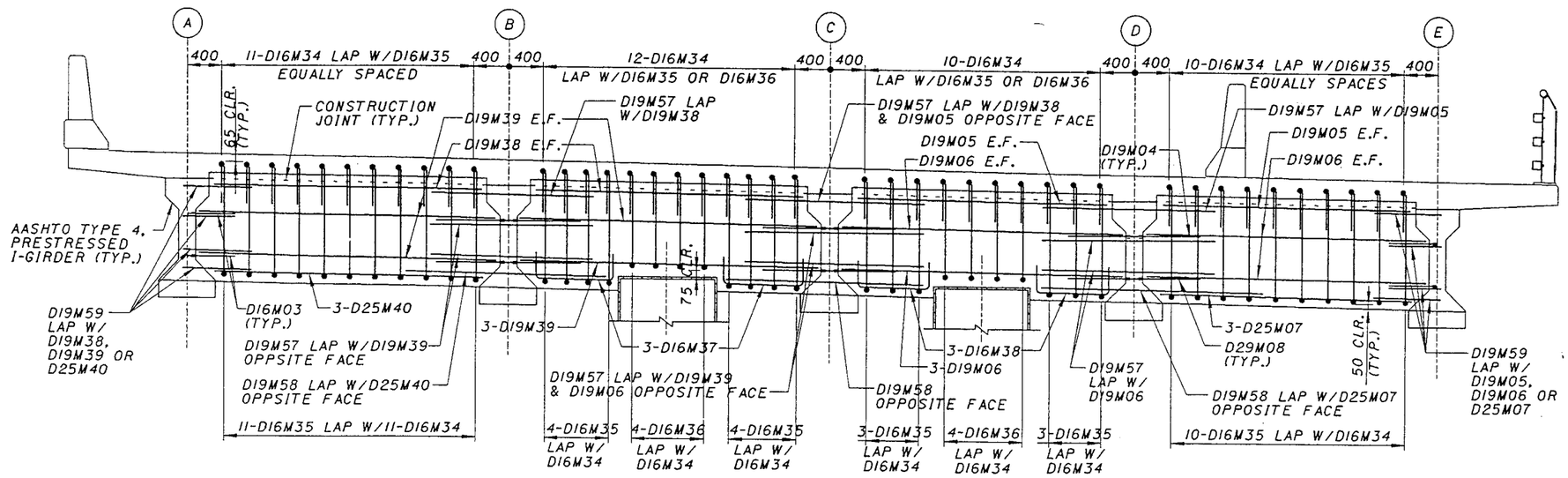
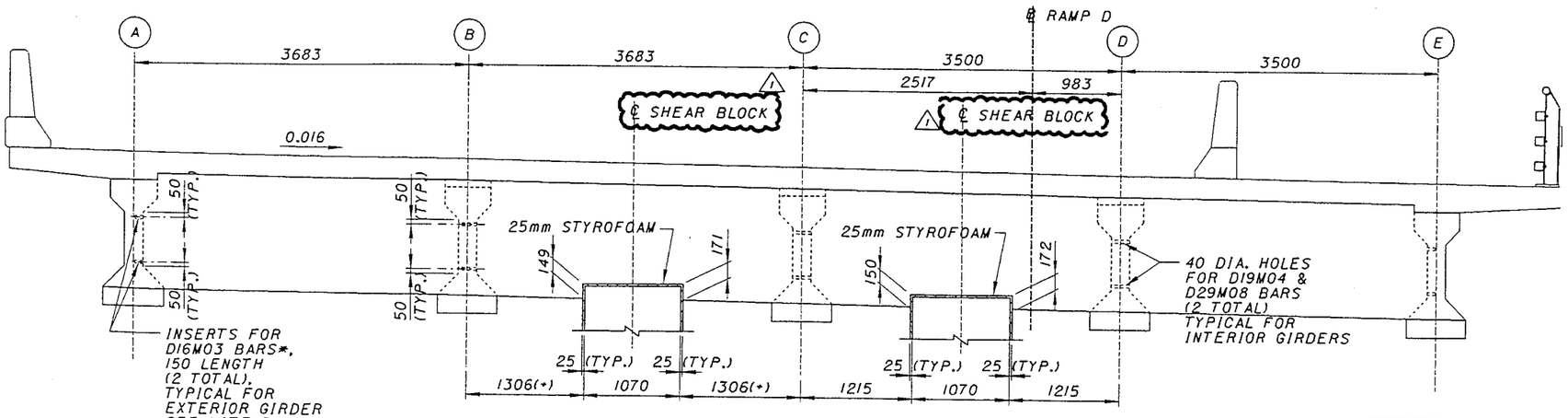


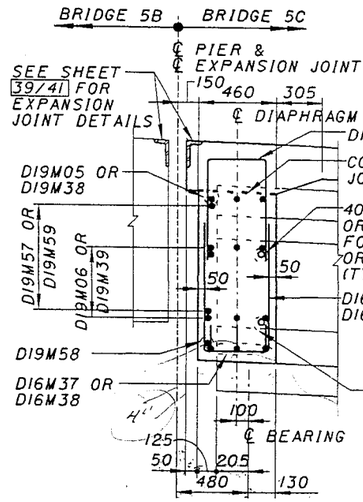
PLAN
PIER 5D-8 DIAPHRAGM, TYPE D1



ELEVATION
PIER 5D-8 DIAPHRAGM, TYPE D1



ELEVATION
PIER 5D-8 DIAPHRAGM, TYPE D1



TYPICAL SECTION

REINFORCING STEEL LIST

DESIGNATION	TOTAL NUMBER	LENGTH (M)	WEIGHT (KG)
DI6M03	4	0.460	2.86
DI9M04	3	1.220	8.18
DI9M05	4	2.890	25.84
DI9M06	9	3.190	64.17
D25M07	3	2.840	33.85
D29M08	3	1.680	25.50
DI6M34	43	1.195	79.75
DI6M35	35	2.930	159.16
DI6M36	8	2.455	30.48
DI6M37	6	2.090	19.46
DI9M38	6	3.075	41.24
DI9M39	9	3.380	67.99
D25M40	3	3.020	36.00
DI9M57	9	1.830	36.81
DI9M58	3	1.980	13.28
DI9M59	8	1.270	22.71
		TOTAL	667.28

NOTES:

1. EPOXY GLUE 25 PREFORMED EXPANSION JOINT FILLER (P.E.J.F.) TO TWO SIDES OF THE SHEAR BLOCK AS SHOWN. CAST DIAPHRAGM AGAINST THE STYROFOAM OR THE 25 P.E.J.F. EXTEND P.E.J.F. TO TOP OF PIER CAP.
2. ALL REINFORCING STEEL SHALL BE EPOXY COATED WITH MINIMUM YIELD STRENGTH OF 400MPa.
3. CONCRETE DIAPHRAGM SHALL BE CLASS S CONCRETE WITH MINIMUM COMPRESIVE STRENGTH OF 31 MPa.
4. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
5. INSERT TO BE DAYTON/RICHMOND OB-SAE-3, DI6 BAR, 150mm LONG OR EQUAL.
6. FOR BAR BEND DIAGRAM, SEE SHEET 19/41
7. END DIAPHRAGM TO BE VERTICAL AFTER ALL DEAD LOADS..

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REVISED NOTE	12-22-99	JWM

ADDENDUM NO. 1
DEC. 22, 1999

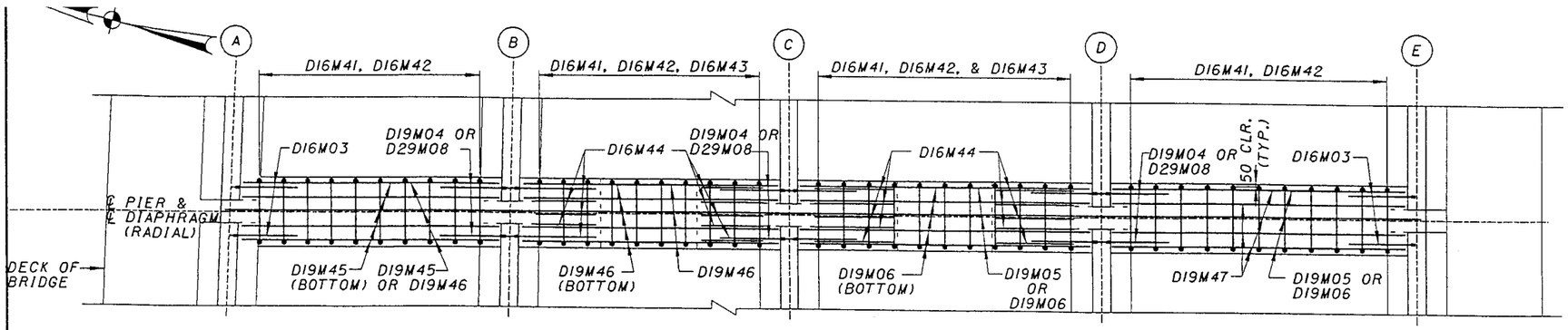
DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

PREPARED	CHECKED	DRAWN	REVISED
VPH	TOM	JAS	

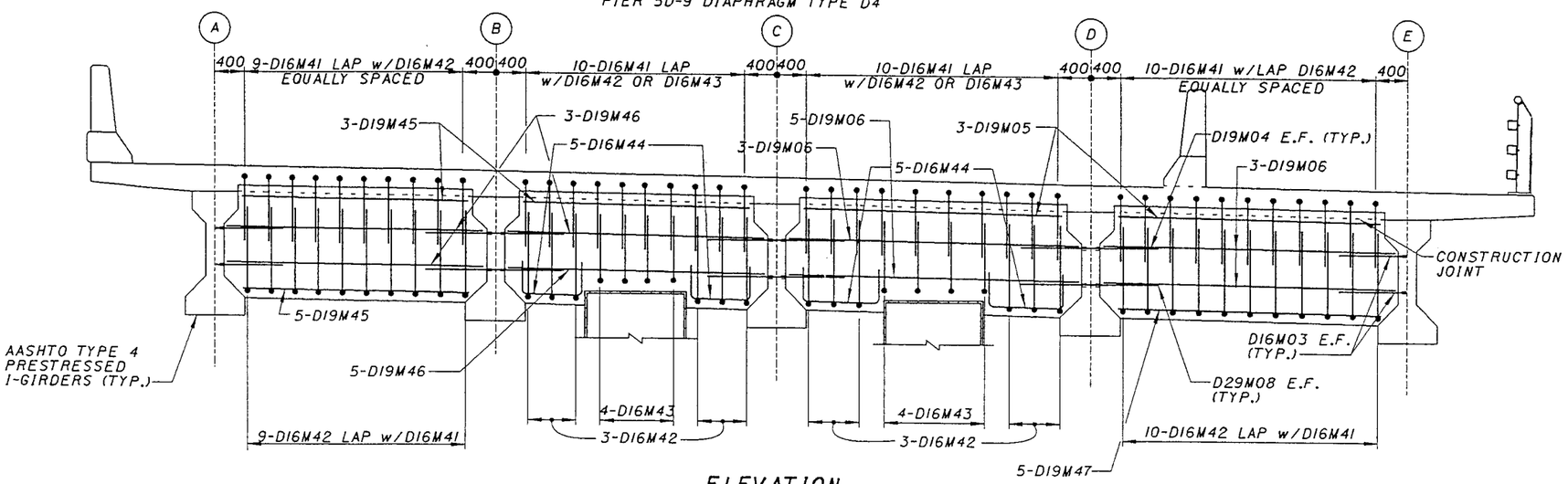
DATE REVISED 12-22-99
STRUCTURE FILE NUMBER 376066

END DIAPHRAGMS - PIER 5D-8
BRIDGE NO. 5C ON SECOND STREET
CLAY WADE BAILEY BRIDGE TO

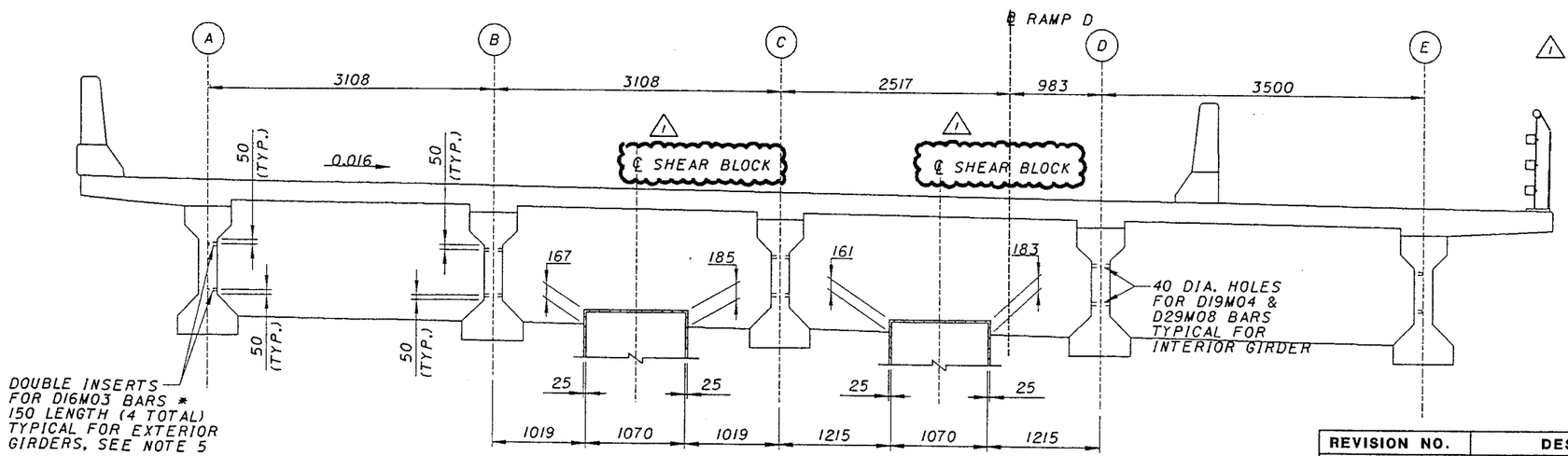
CITY OF CINCINNATI
CONTRACT NO. 75X5753



PLAN
PIER 5D-9 DIAPHRAGM TYPE D4

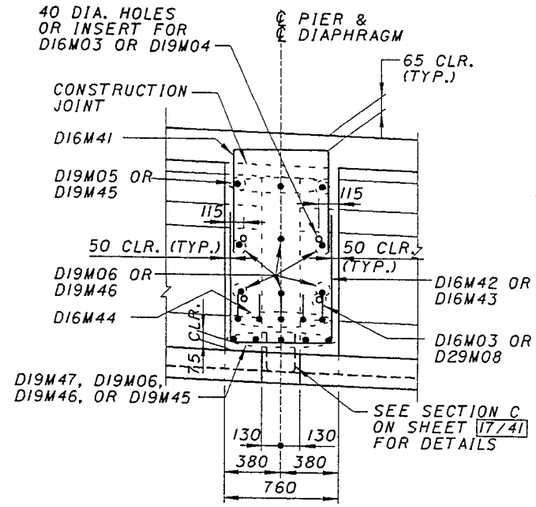


ELEVATION
PIER 5D-9 DIAPHRAGM TYPE D4



* THREAD END OF BAR TO MATCH INSERTS

ELEVATION
PIER 5D-9 DIAPHRAGM TYPE D4



TYPICAL SECTION

REINFORCING STEEL LIST

DESIGNATION	TOTAL NUMBER	LENGTH (M)	WEIGHT (KG)
D16M03	8	0.460	5.71
D19M04	6	1.220	16.36
D19M05	6	2.890	38.75
D19M06	14	3.190	99.82
D29M08	6	1.680	51.00
D16M41	39	1.510	91.40
D16M42	31	3.230	155.40
D16M43	9	2.730	38.13
D16M44	20	1.680	52.15
D19M45	11	2.500	61.46
D19M46	14	2.800	87.61
D19M47	5	2.840	31.74
		TOTAL	729.53

NOTES :

1. EPOXY GLUE 25 PREFORMED EXPANSION JOINT FILLER (P.E.J.F.) TO TWO SIDES OF THE SHEAR BLOCK AS SHOWN. CAST DIAPHRAGM AGAINST THE STYROFOAM OR THE 25 P.E.J.F. EXTEND P.E.J.F. TO TOP OF PIER CAP.
2. ALL REINFORCING STEEL SHALL BE EPOXY COATED WITH MINIMUM YIELD STRENGTH OF 400MPa.
3. CONCRETE DIAPHRAGM SHALL BE CLASS S CONCRETE WITH MINIMUM COMPRESIVE STRENGTH OF 31 MPa.
4. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
5. INSERT TO BE DAYTON/RICHMOND OB-SAE-3, D16M BAR, 150 LONG OR EQUAL.
6. FOR BAR BEND DIAGRAM, SEE SHEET 19/41.
7. PIER DIAPHRAGM TO BE VERTICAL.

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REVISED NOTE	12-22-99	JWM

ADDENDUM NO. 1
DEC. 22, 1999

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
201 E. FIFTH STREET, SUITE 2500
CINCINNATI, OH 45202-2720

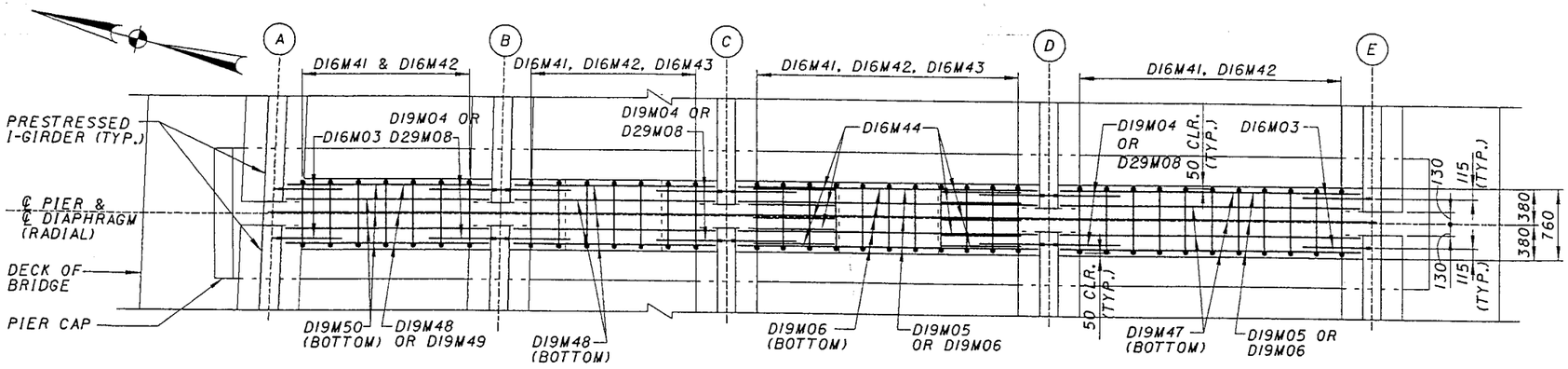
PREPARED	DRAWN	REVISED	DATE
TOM	JAS		12-22-99
CHECKED	REVIEWED	STRUCTURE FILE NUMBER	
VPH	TOM	316066 I	

PIER DIAPHRAGMS - PIER 5D-9
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

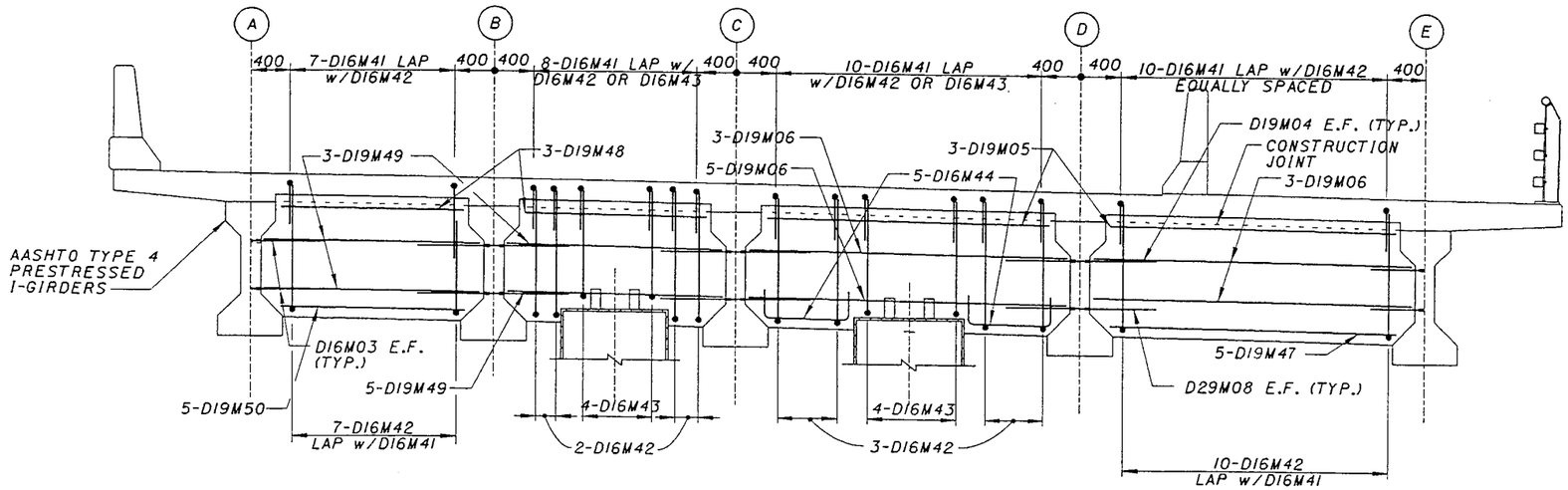
CITY OF CINCINNATI
CONTRACT NO. 75X5753

22/41

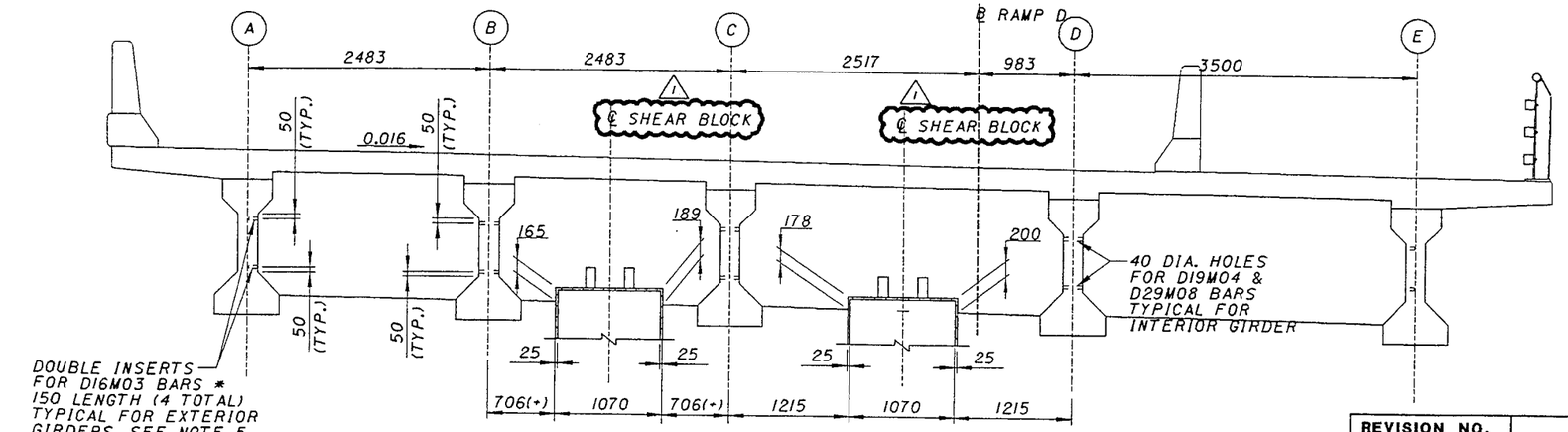
106/125



PLAN
PIER 5D-10 DIAPHRAGM TYPE D8

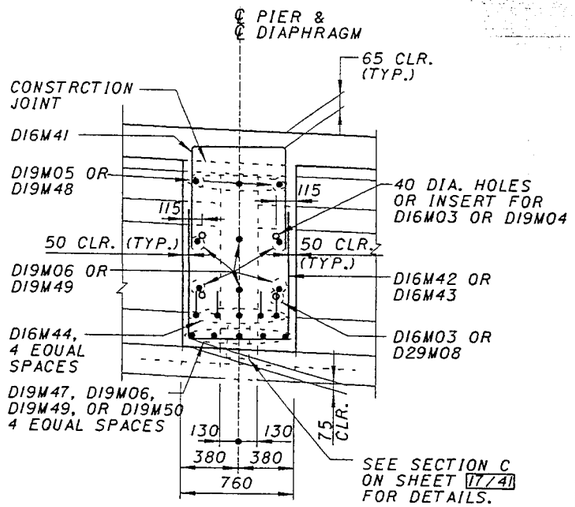


ELEVATION
PIER 5D-10 DIAPHRAGM TYPE D8



* THREAD END OF BAR TO MATCH INSERTS

ELEVATION
PIER 5D-10 DIAPHRAGM TYPE D8



TYPICAL SECTION

REINFORCING STEEL LIST

DESIGNATION	TOTAL NUMBER	LENGTH (M)	WEIGHT (KG)
D16M03	8	0.460	5.71
D19M04	6	1.220	16.36
D19M05	6	2.890	38.75
D19M06	14	3.190	99.82
D29M08	6	1.680	51.00
D16M41	35	1.510	82.02
D16M42	27	3.230	135.35
D16M43	8	2.730	33.90
D16M44	10	1.680	26.07
D19M47	5	2.840	31.74
D19M48	6	1.875	25.14
D19M49	14	2.180	68.21
D19M50	5	1.820	20.34
		TOTAL	634.41

NOTES :

1. EPOXY GLUE 25 PREFORMED EXPANSION JOINT FILLER (P.E.J.F.) TO TWO SIDES OF THE SHEAR BLOCK AS SHOWN. CAST DIAPHRAGM AGAINST THE STYROFOAM OR THE 25 P.E.J.F. EXTEND P.E.J.F. TO TOP OF PIER CAP.
2. ALL REINFORCING STEEL SHALL BE EPOXY COATED WITH MINIMUM YIELD STRENGTH OF 400MPa.
3. CONCRETE DIAPHRAGM SHALL BE CLASS S CONCRETE WITH MINIMUM COMPRESIVE STRENGTH OF 31 MPa.
4. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
5. INSERT TO BE DAYTON/RICHMOND OB-SAE-3 D16M BAR, 150 LONG OR EQUAL.
6. FOR BAR BEND DIAGRAM, SEE SHEET 19/41.
7. PIER DIAPHRAGM TO BE VERTICAL.

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REVISED NOTE	12-22-99	JWM

ADDENDUM NO. 1
DEC. 22, 1999

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2300
CINCINNATI, OH 45202-2720

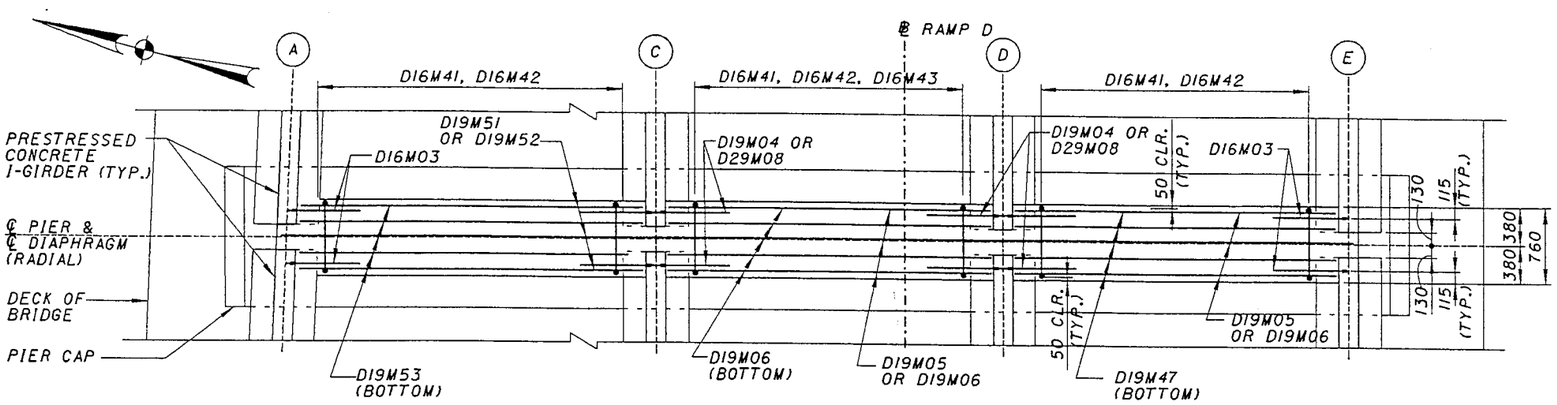
PREPARED	DRAWN	REVISED	DATE
TOM	JAS		12-22-99
CHECKED	REVIEWED	STRUCTURE FILE NUMBER	
VPH	TOM	3/16066/	

PIER DIAPHRAGMS - PIER 5D-10
BRIDGE NO. 5C OVER
CLAY WADE BAILEY BRIDGE TO SECOND STREET

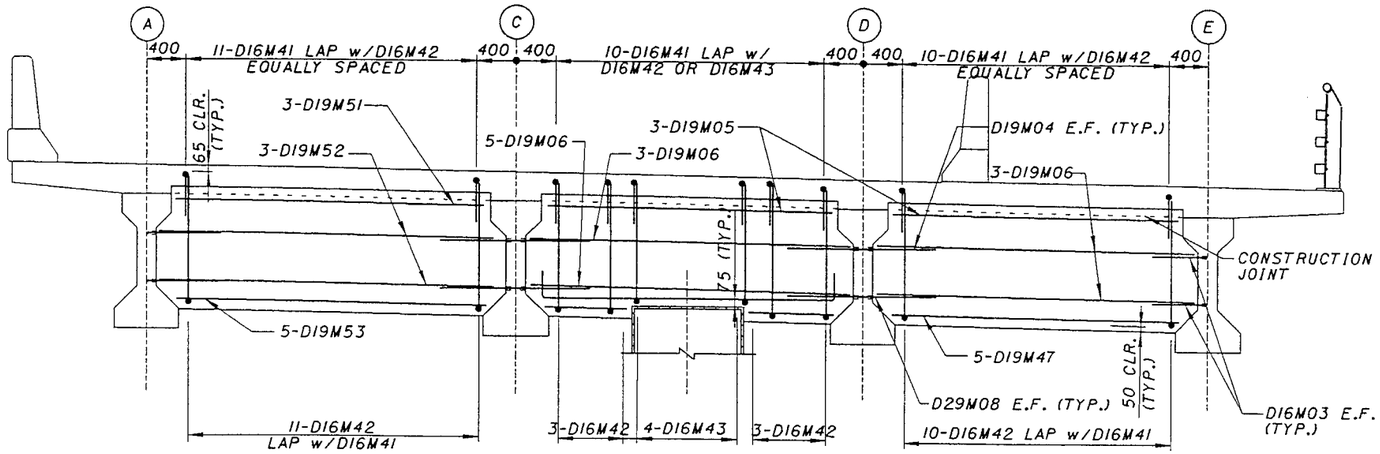
CITY OF CINCINNATI
CONTRACT NO. 75X5753

23/41

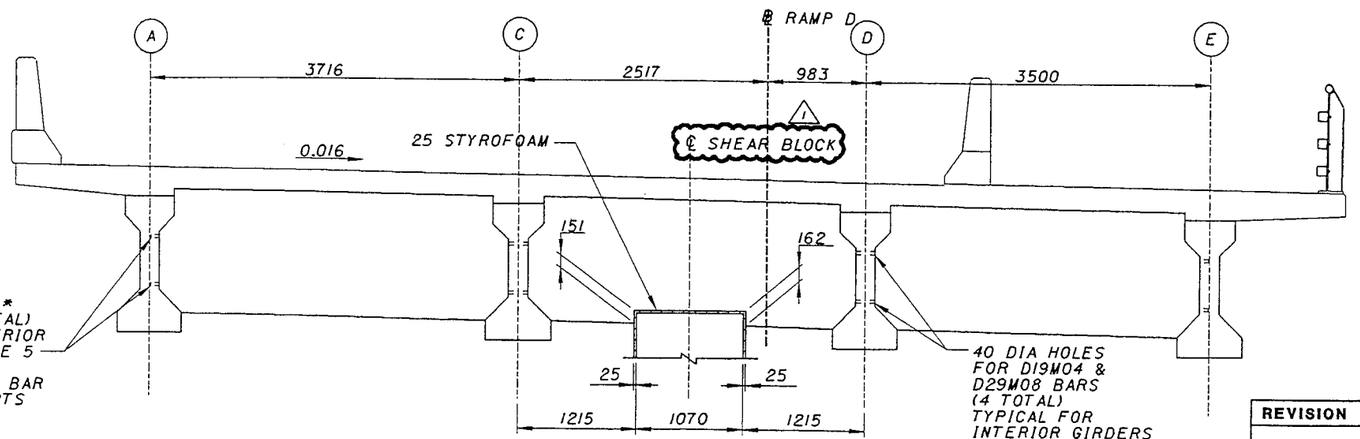
107/125



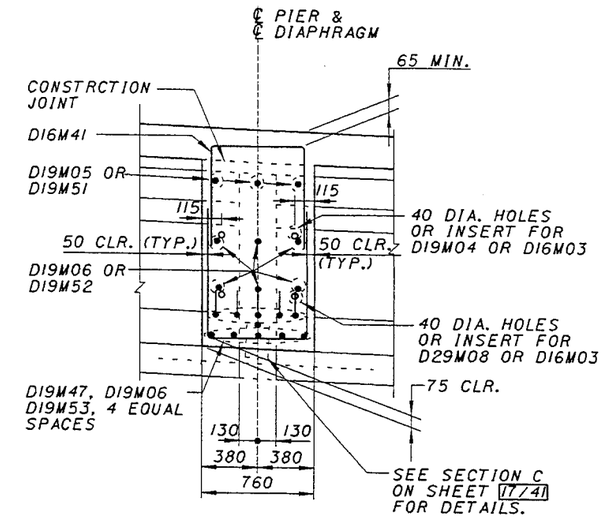
PLAN
PIER DIAPHRAGM TYPE DII - PIER 5D-II



ELEVATION
PIER DIAPHRAGM TYPE DII - PIER 5D-II



ELEVATION
PIER DIAPHRAGM TYPE DII - PIER 5D-II



TYPICAL SECTION

REINFORCING STEEL LIST

DESIGNATION	TOTAL NUMBER	LENGTH (M)	WEIGHT (KG)
D16M03	8	0.460	5.71
D19M04	4	1.220	10.91
D19M05	6	2.890	38.75
D19M06	14	3.190	99.82
D29M08	4	1.680	34.00
D16M41	31	1.510	72.65
D16M42	27	3.230	135.35
D16M43	4	2.730	16.95
D19M47	5	2.840	31.74
D19M51	3	3.110	20.85
D19M52	6	3.410	45.73
D19M53	5	3.050	34.08
		TOTAL	546.54

NOTES :

1. EPOXY GLUE 25 PREFORMED EXPANSION JOINT FILLER (P.E.J.F.) TO TWO SIDES OF THE SHEAR BLOCK AS SHOWN. CAST DIAPHRAGM AGAINST THE STYROFOAM OR THE 25 P.E.J.F. EXTEND P.E.J.F. TO TOP OF PIER CAP. (1)
2. ALL REINFORCING STEEL SHALL BE EPOXY COATED WITH MINIMUM YIELD STRENGTH OF 400MPa.
3. CONCRETE DIAPHRAGM SHALL BE CLASS S CONCRETE WITH MINIMUM COMPRESIVE STRENGTH OF 31 MPa.
4. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
5. INSERT TO BE DAYTON/RICHMOND OB-SAE-3, D16 BAR, 150mm LONG OR EQUAL.
6. FOR BAR BEND DIAGRAM, SEE SHEET 19/41.
7. PIER DIAPHRAGM TO BE VERTICAL.

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM (1)	REVISED NOTE	12-22-99	JWM

ADDENDUM NO. 1
DEC. 22, 1999

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2220

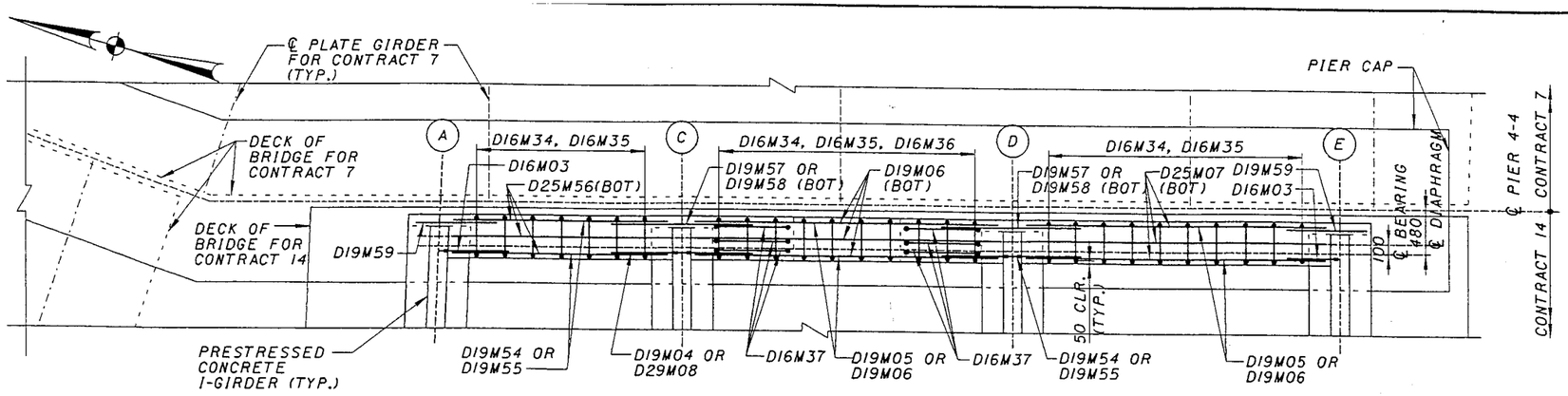
PREPARED	DRAWN	REVISED	DATE
TOM	JAS		12-22-99
CHECKED	REVISED	STRUCTURE FILE NUMBER	
VPH	TOM	376066	

PIER DIAPHRAGMS - PIER 5D-II
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

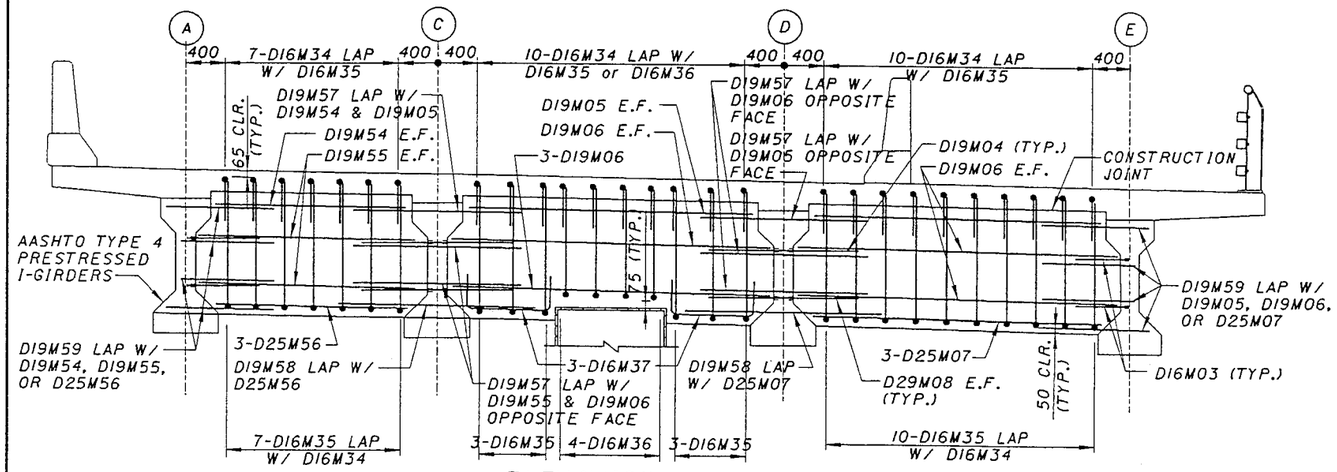
24/41

108/125



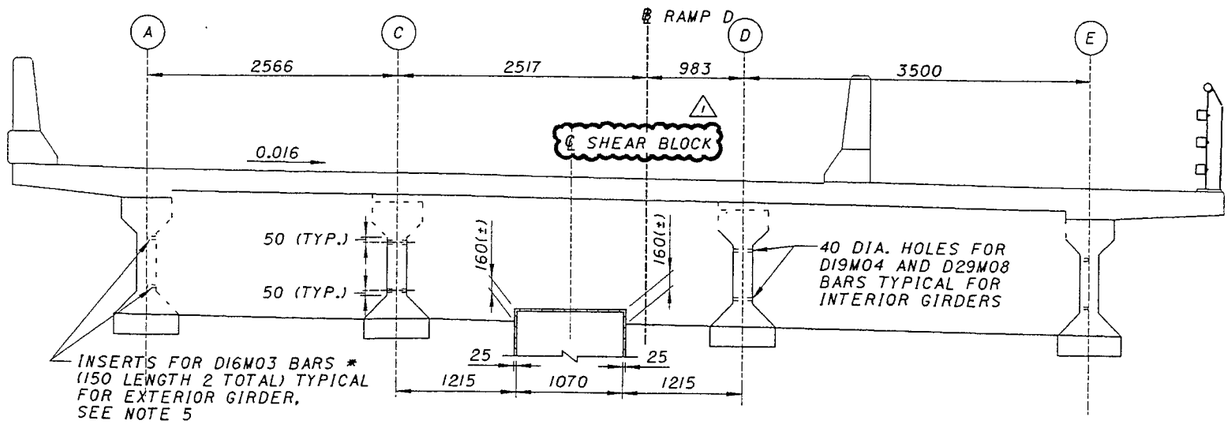
PLAN

PIER 4-4 DIAPHRAGM - TYPE DI4



ELEVATION

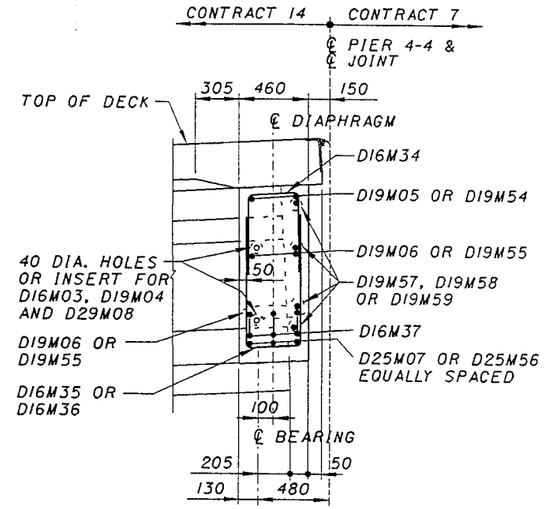
PIER 4-4 DIAPHRAGM - TYPE DI4



* THREAD END OF BAR TO MATCH INSERTS

ELEVATION

PIER 4-4 DIAPHRAGM - TYPE DI4



TYPICAL SECTION

REINFORCING STEEL LIST

DESIGNATION	TOTAL NUMBER	LENGTH (M)	WEIGHT (KG)
DI6M03	4	0.460	2.86
DI9M04	2	1.220	5.45
DI9M05	4	2.890	25.84
DI9M06	9	3.190	64.17
D25M07	3	2.840	33.85
D29M08	2	1.680	17.00
DI6M34	27	1.195	50.08
DI6M35	23	2.930	104.59
DI6M36	4	2.455	15.24
DI6M37	6	2.090	19.46
DI9M54	2	1.960	8.76
DI9M55	4	2.260	20.20
D25M56	3	1.905	22.71
DI9M57	6	1.830	24.54
DI9M58	2	1.980	8.85
DI9M59	8	1.270	22.71
		TOTAL	446.31

NOTES:

1. ⚠1 EPOXY GLUE 25 PREFORMED EXPANSION JOINT FILLER (P.E.J.F.) TO TWO SIDES OF THE SHEAR BLOCK AS SHOWN. CAST DIAPHRAGM AGAINST THE STYROFOAM OR THE 25 P.E.J.F. EXTEND P.E.J.F. TO TOP OF PIER CAP.
2. ALL REINFORCING STEEL SHALL BE EPOXY COATED WITH MINIMUM YIELD STRENGTH OF 400MPa.
3. CONCRETE DIAPHRAGM SHALL BE CLASS S CONCRETE WITH MINIMUM COMPRESIVE STRENGTH OF 31 MPa.
4. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
5. INSERT TO BE DAYTON/RICHMOND OB-SAE-3, DI6 BAR, 150mm LONG OR EQUAL.
6. FOR BAR BEND DIAGRAM, SEE SHEET 19/41.
7. END DIAPHRAGM TO BE VERTICAL AFTER ALL DEAD LOAD.

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM ⚠1	REVISED NOTE	12-22-99	JWM

ADDENDUM NO. 1
DEC. 22, 1999

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720
100.

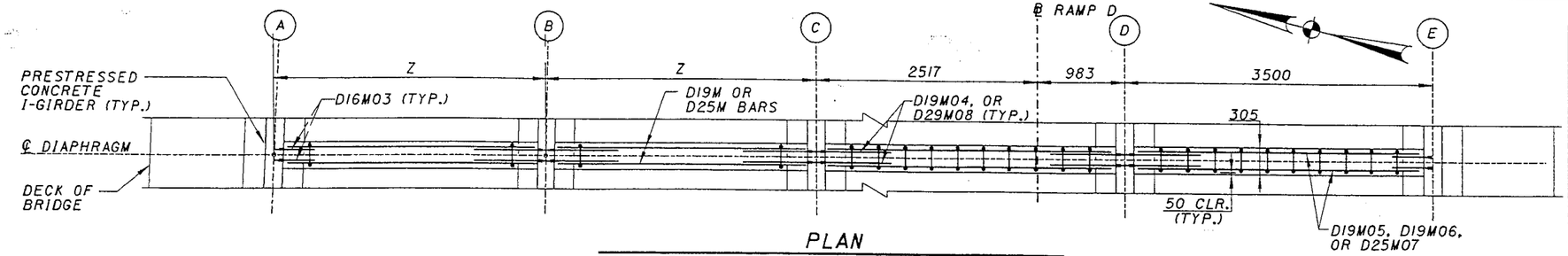
REVISED	DATE
	12-22-99
STRUCTURE FILE NUMBER	
316066 /	
DRAWN	
JAS	
REVIEWED	
PREPARED	
VPH	
CHECKED	
TOM	

END DIAPHRAGMS - PIER 4-4
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

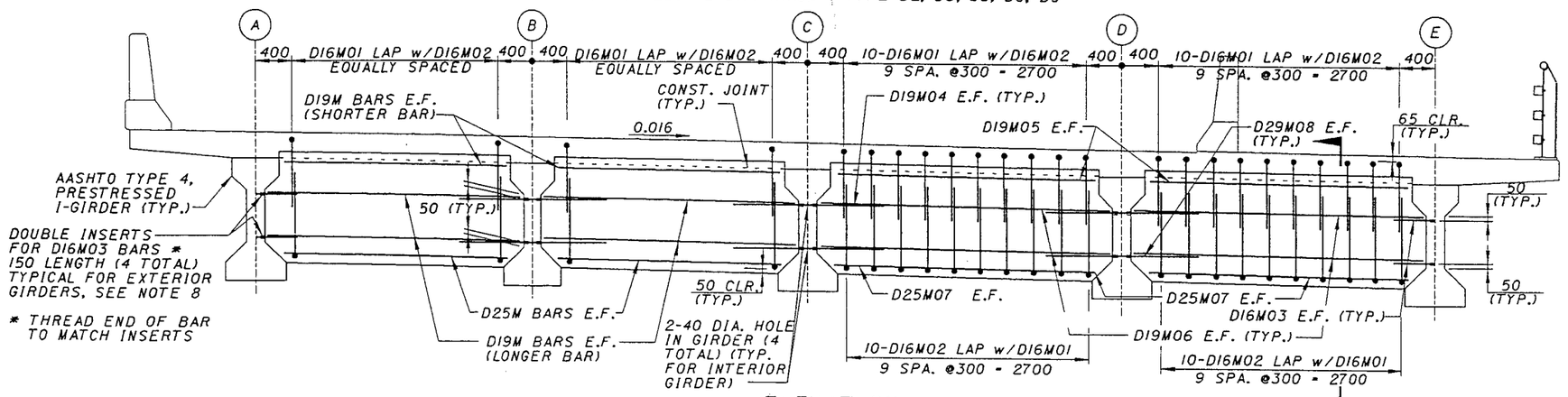
25/41

109/125



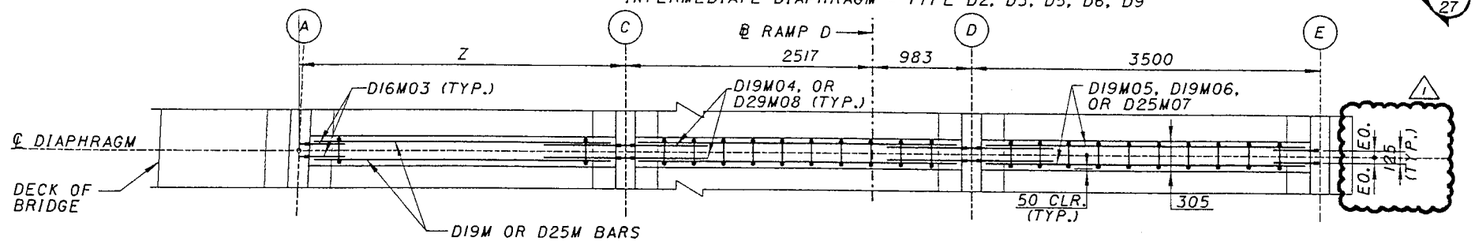
PLAN

INTERMEDIATE DIAPHRAGM - TYPE D2, D3, D5, D6, D9



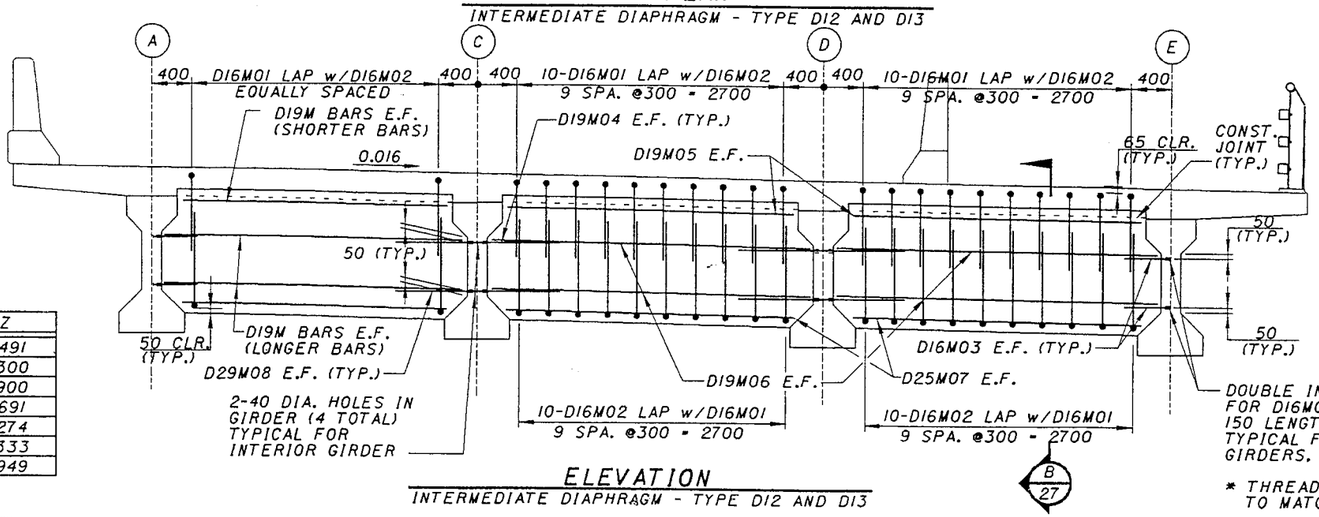
ELEVATION

INTERMEDIATE DIAPHRAGM - TYPE D2, D3, D5, D6, D9



PLAN

INTERMEDIATE DIAPHRAGM - TYPE D12 AND D13



ELEVATION

INTERMEDIATE DIAPHRAGM - TYPE D12 AND D13

DIAPHRAGM	Z
D2	3491
D3	3300
D5	2900
D6	2691
D9	2274
D12	3333
D13	2949

REINFORCING STEEL LIST

DESIGNATION	TOTAL NUMBER	LENGTH (M)	WEIGHT (KG)
INTERMEDIATE DIAPHRAGM D2			
D16M01	42	1.040	67.79
D16M02	42	2.780	181.21
D16M03	8	0.460	5.71
D19M04	6	1.220	16.36
D19M05	4	2.890	25.84
D19M06	8	3.190	57.04
D25M07	4	2.840	45.13
D29M08	6	1.680	51.00
D19M09	4	2.880	25.75
D19M10	8	3.190	57.04
D25M11	4	2.830	44.97
		TOTAL	577.84
INTERMEDIATE DIAPHRAGM D3			
D16M01	40	1.040	64.56
D16M02	40	2.780	172.58
D16M03	8	0.460	5.71
D19M04	6	1.220	16.36
D19M05	4	2.890	25.84
D19M06	8	3.190	57.04
D25M07	4	2.840	45.13
D29M08	6	1.680	51.00
D19M12	4	2.690	24.05
D19M13	8	3.000	53.64
D25M14	4	2.640	41.95
		TOTAL	557.86
INTERMEDIATE DIAPHRAGM D5			
D16M01	38	1.040	61.34
D16M02	38	2.780	163.95
D16M03	8	0.460	5.71
D19M04	6	1.220	16.36
D19M05	4	2.890	25.84
D19M06	8	3.190	57.04
D25M07	4	2.840	45.13
D29M08	6	1.680	51.00
D19M15	4	2.290	20.47
D19M16	8	2.600	46.49
D25M17	4	2.240	35.60
		TOTAL	528.93

NOTES:

1. SEE SHEET 3 & 4/9 FOR GENERAL NOTES.
2. SEE SHEET 36 & 37/41 FOR DECK SECTIONS & BARRIER DETAILS.
3. SEE SHEET 15 & 16/41 FOR FRAMING PLAN.
4. SEE SHEET 27/41 FOR CONTINUATION OF REINFORCING STEEL LIST.
5. ALL REINFORCING STEEL SHALL BE EPOXY COATED WITH MINIMUM YEILD STRENGTH OF 400MPA.
6. CONCRETE DIAPHRAGM SHALL BE CLASS S CONCRETE WITH MINIMUM COMPRESSIVE STRENGTH OF 31 MPA.
7. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
8. INSERT TO BE DAYTON/RICHMOND OB-SAE-3, 16M BAR, 150 LONG OR EQUAL.
9. FOR BAR BEND DIAGRAM, SEE SHEET 19/41.
10. INTERMEDIATE DIAPHRAGM TO BE PERPENDICULAR TO GIRDER.

REVISION NO.	DESCRIPTION	DATE	BY
1 ADDENDUM	REVISED SECTION MARKS	12-22-99	JWM

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 1500
CINCINNATI, OH 45202-2720
KCG No.

PREPARED	DRAWN	REVISED	DATE
TOM	JAS	12-22-99	
CHECKED	REVIEWED	STRUCTURE FILE NUMBER	
VPH	TOM	3160661	

INTERMEDIATE DIAPHRAGM DETAILS 1 OF 2

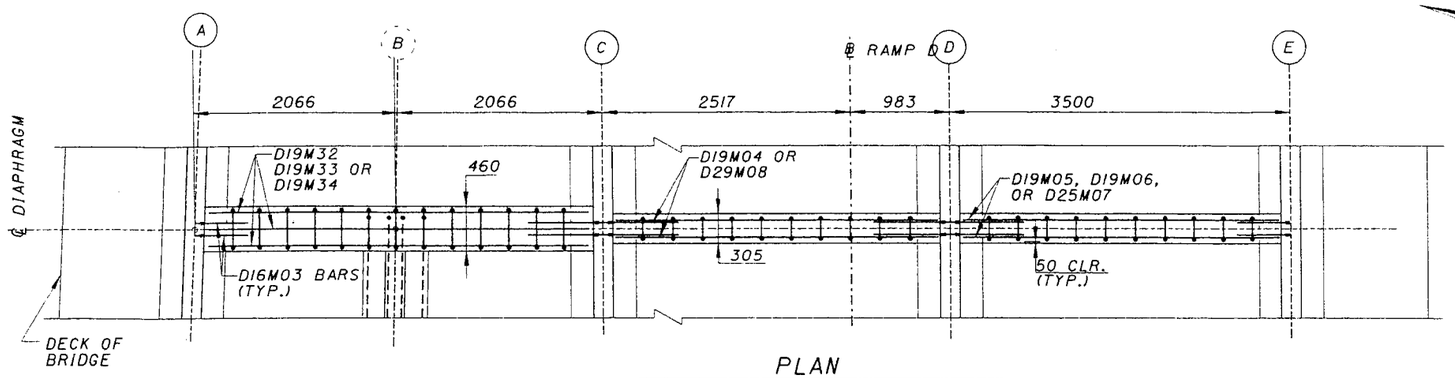
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

26/41

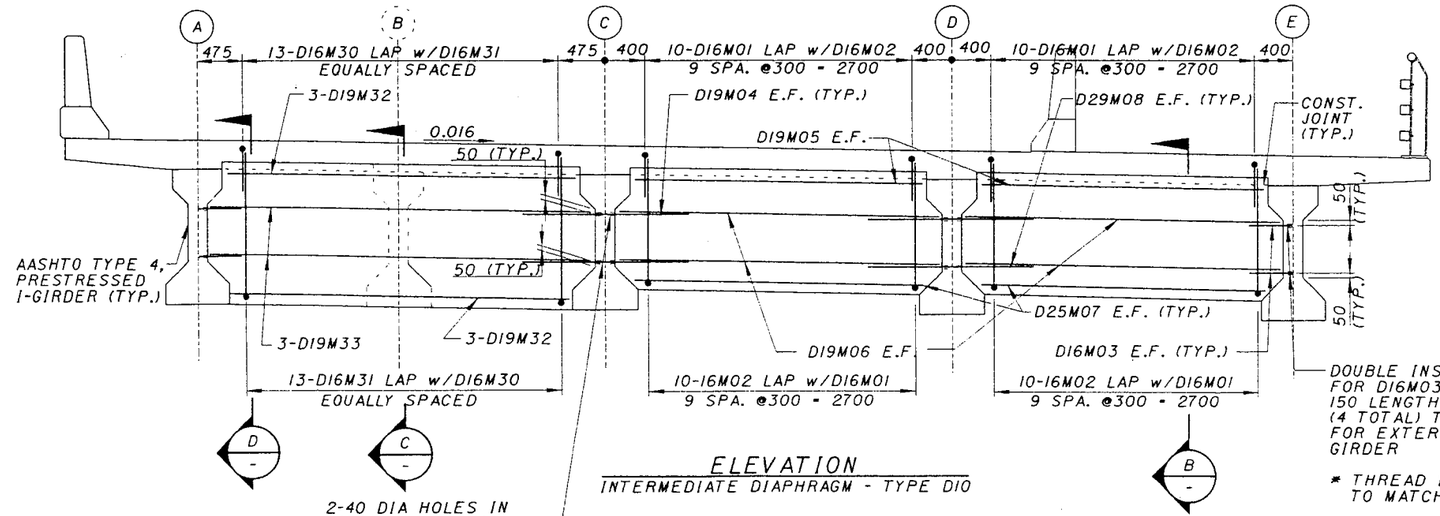
110/125

ADDENDUM NO. 1
DEC. 22, 1999



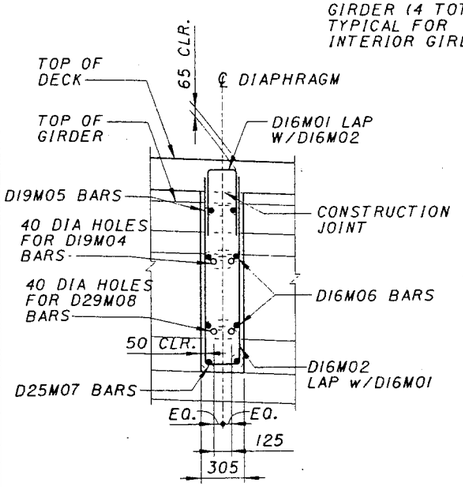
PLAN

INTERMEDIATE DIAPHRAGM - TYPE D10

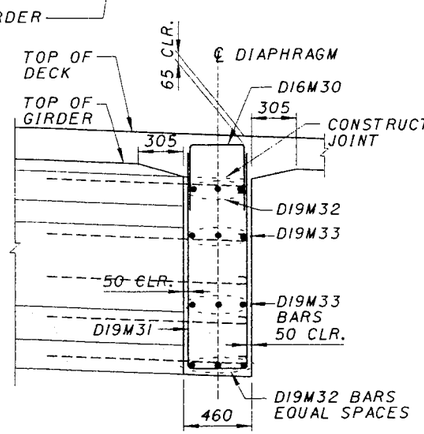


ELEVATION

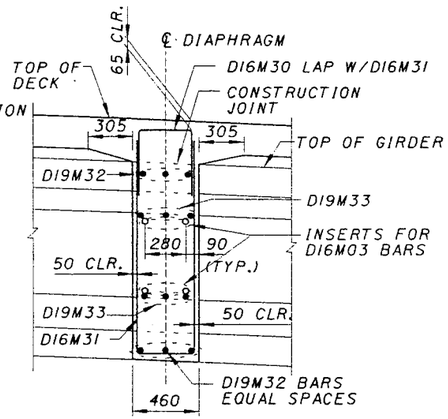
INTERMEDIATE DIAPHRAGM - TYPE D10



TYPICAL SECTION (B)



SECTION (C)



SECTION (D)

NOTES:

1. SEE SHEET 3 & 4/9 FOR GENERAL NOTES.
2. SEE SHEET 36 & 37/41 FOR DECK SECTIONS & BARRIER DETAILS.
3. SEE SHEET 15 & 16/41 FOR FRAMING PLAN.
4. SEE SHEET 26/41 FOR CONTINUATION OF REINFORCING STEEL LIST.
5. ALL REINFORCING STEEL SHALL BE EPOXY COATED WITH MINIMUM YEILD STRENGTH OF 400MPa.
6. CONCRETE DIAPHRAGM SHALL BE CLASS S CONCRETE WITH MINIMUM COMPRESSIVE STRENGTH OF 31 MPA.
7. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
8. INSERT TO BE DAYTON/RICHMOND OB-SAE-3, 16M BAR, 150 LONG OR EQUAL.
9. FOR BAR BEND DIAGRAM, SEE SHEET 19/41.
10. INTERMEDIATE DIAPHRAGM TO BE PERPENDICULAR TO GIRDER.

REINFORCING STEEL LIST

DESIGNATION	TOTAL NUMBER	LENGTH (M)	WEIGHT (KG)
INTERMEDIATE DIAPHRAGM D6			
D16M01	36	1.040	58.11
D16M02	36	2.780	155.32
D16M03	8	0.460	5.71
D19M04	6	1.220	16.36
D19M05	4	2.890	25.84
D19M06	8	3.190	57.04
D25M07	4	2.840	45.13
D29M08	6	1.680	51.00
D19M18	4	2.080	18.60
D19M19	8	2.390	42.73
D25M20	4	2.030	32.26
		TOTAL	508.10
INTERMEDIATE DIAPHRAGM D9			
D16M01	34	1.040	54.88
D16M02	34	2.780	146.70
D16M03	8	0.460	5.71
D19M04	6	1.220	16.36
D19M05	4	2.890	25.84
D19M06	8	3.190	57.04
D25M07	4	2.840	45.13
D29M08	6	1.680	51.00
D19M21	4	1.670	14.93
D19M22	8	1.970	35.22
D25M23	4	1.610	25.59
		TOTAL	478.40
INTERMEDIATE DIAPHRAGM D10			
D16M01	20	1.040	32.28
D16M02	20	2.780	86.29
D16M03	8	0.460	5.71
D19M04	4	1.220	10.91
D19M05	4	2.890	25.84
D19M06	8	3.190	57.04
D25M07	4	2.840	45.13
D29M08	4	1.680	26.70
D16M30	13	1.290	26.03
D16M31	13	3.030	61.13
D19M32	6	3.525	47.27
D19M33	6	3.830	51.36
		TOTAL	475.69
INTERMEDIATE DIAPHRAGM D12			
D16M01	31	1.040	50.04
D16M02	31	2.780	133.75
D16M03	8	0.460	5.71
D19M04	4	1.220	10.91
D19M05	4	2.890	25.84
D19M06	8	3.190	57.04
D25M07	4	2.840	45.13
D29M08	4	1.680	34.00
D19M24	2	2.725	12.18
D19M25	4	3.030	27.09
D25M26	2	2.670	21.22
		TOTAL	422.91
INTERMEDIATE DIAPHRAGM D13			
D16M01	30	1.040	48.42
D16M02	30	2.780	129.44
D16M03	8	0.460	5.71
D19M04	4	1.220	10.91
D19M05	4	2.890	25.84
D19M06	8	3.190	57.04
D25M07	4	2.840	45.13
D29M08	4	1.680	34.00
D19M27	2	2.340	10.46
D19M28	4	2.640	23.60
D25M29	2	2.290	18.20
		TOTAL	408.75

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

PREPARED	DRAWN	REVISED	DATE
TOM	JAS		12-02-99
CHECKED	REVIEWED	STRUCTURE FILE NUMBER	
VPH	VPH	3160661	

INTERMEDIATE DIAPHRAGMS, 2 OF 2
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

27/41

111/125

12/01/99 Wed Dec 11:16:10 1999

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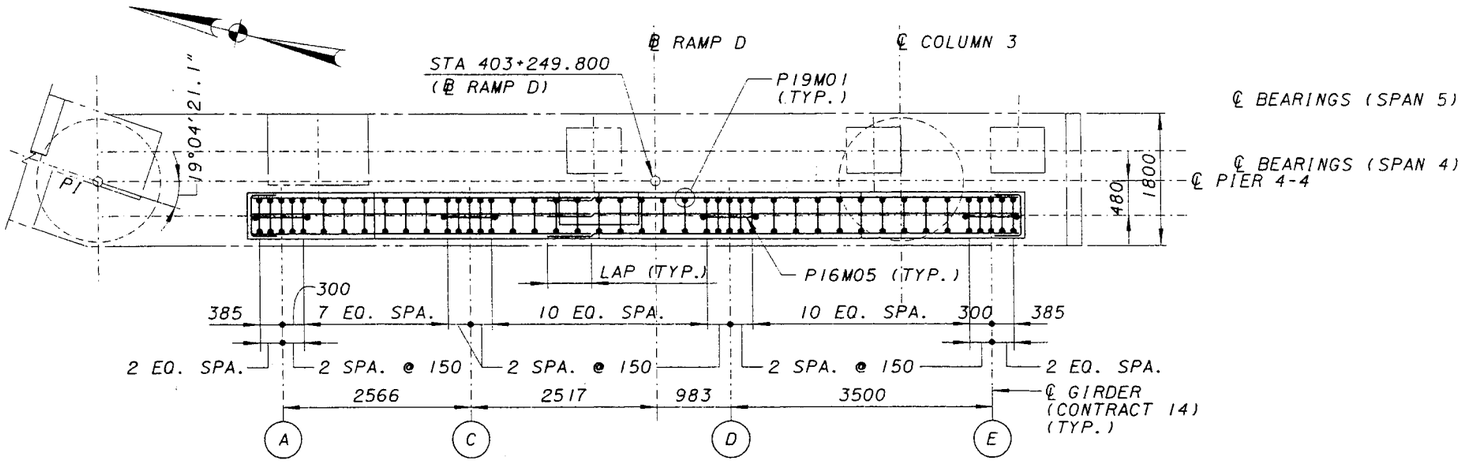
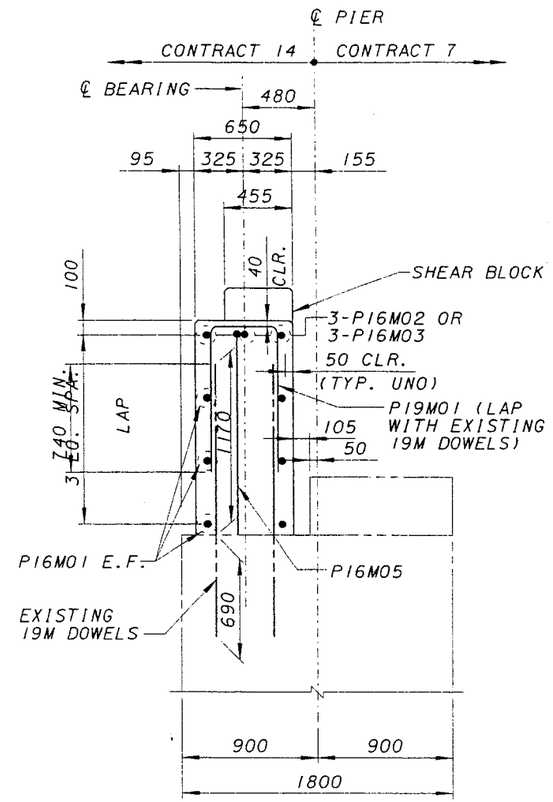
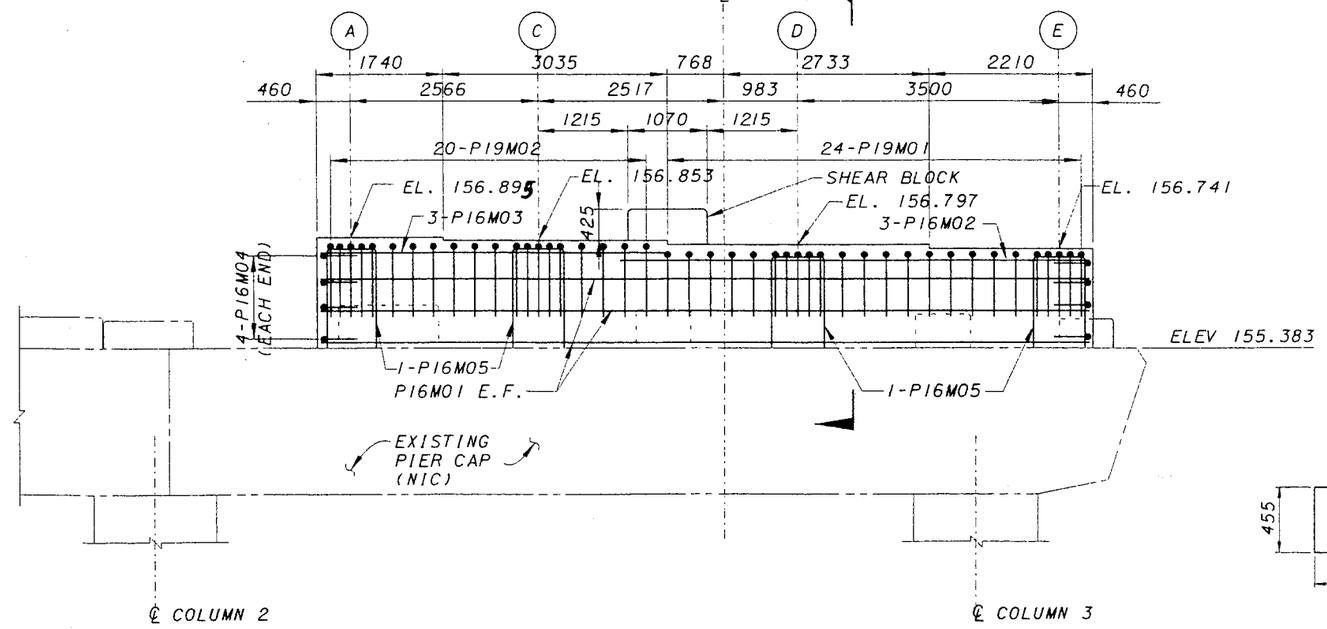


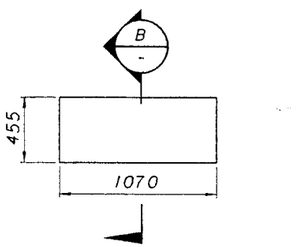
PLAN - PIER 4-4



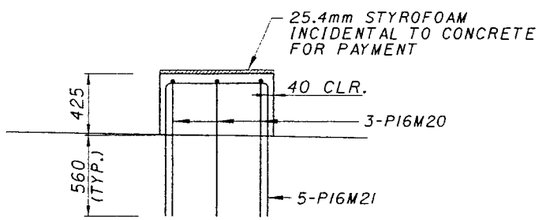
SECTION A/28



ELEVATION - PIER 4-4



SHEAR BLOCK - PLAN



SECTION B/-

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

DRAWN	REVISED	DATE
BZX		12-02-99
PREPARED	REVIEWED	STRUCTURE FILE NUMBER
VJR		316066
CHECKED		
JWM		

PEDESTAL - PIER 4-4
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 7.5X5753

28/41

112/125

12/01/99 Wed Dec 11:39:40 1999

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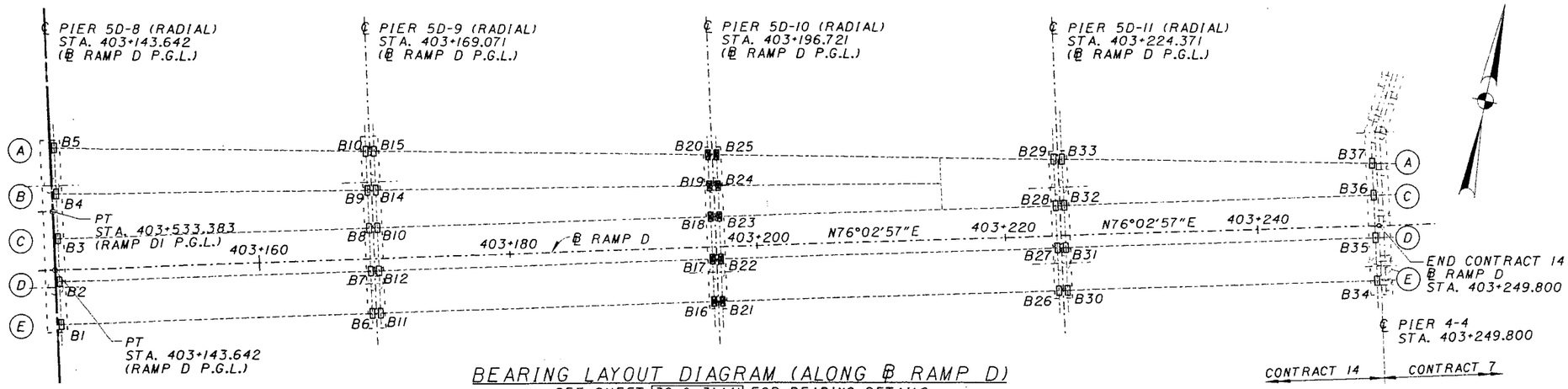


BEARING LAYOUT DIAGRAM (ALONG ℄ RAMP D)

SEE SHEET 30 & 31/41 FOR BEARING DETAILS

LEGEND:

- EXPANSION BEARINGS (EB), NON-GUIDED
- FIXED BEARINGS (FB)

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2120

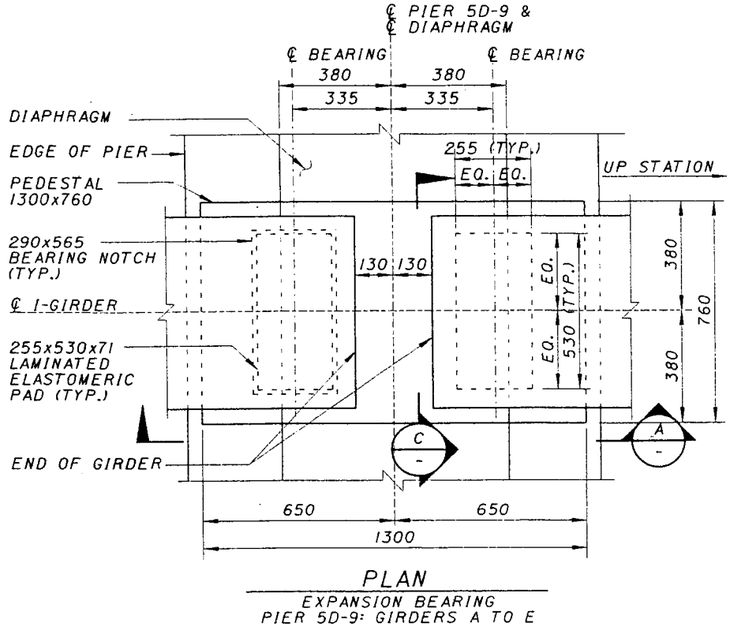
PREPARED	DRAWN	REVISED	DATE
TOM	IAS		12-02-99
CHECKED	REVIEWED	STRUCTURE FILE NUMBER	
V.J.R		316066	

BEARING LAYOUT DIAGRAM
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

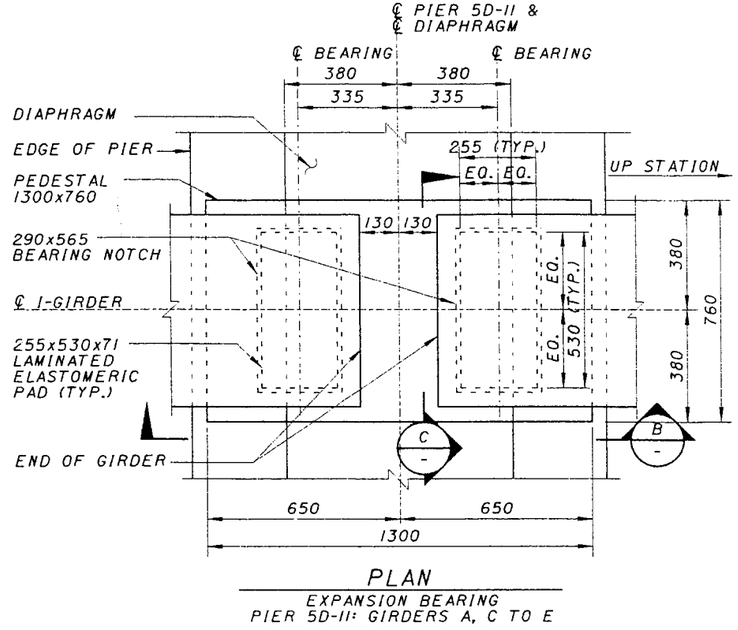
29/41

113/125



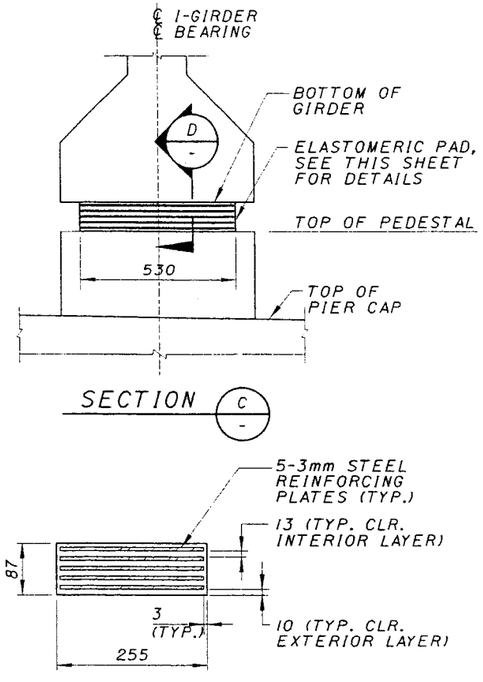
PLAN

EXPANSION BEARING
PIER 5D-9: GIRDERS A TO E



PLAN

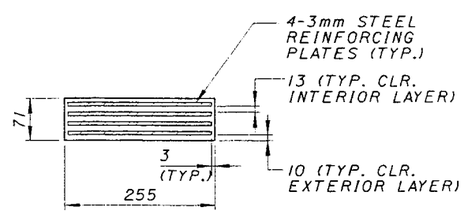
EXPANSION BEARING
PIER 5D-11: GIRDERS A, C TO E



SECTION C

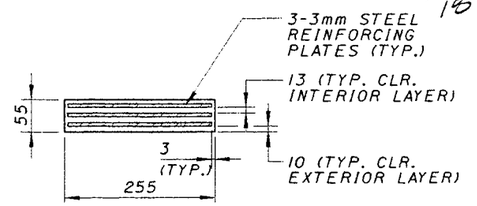
TYPE A

EXPANSION BEARING,
PIER 5D-8: GIRDERS A TO E
PIER 4-4: GIRDERS A, C TO E



TYPE B

EXPANSION BEARING,
PIER 5D-9: GIRDERS A TO E
PIER 5D-11: GIRDERS A, C TO E

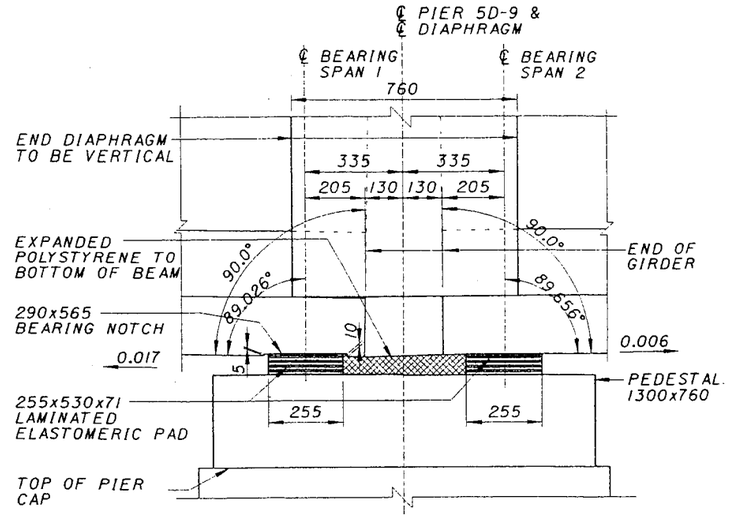


TYPE C

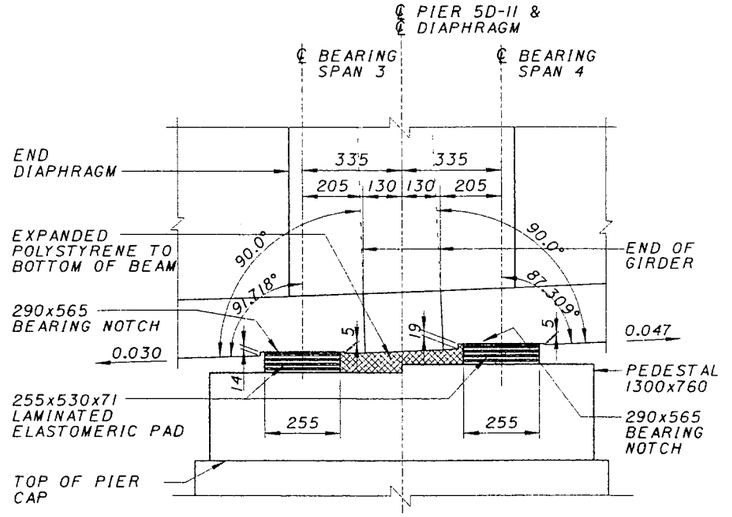
EXPANSION BEARING,
PIER 5D-10: GIRDERS A TO E

SECTION D

TYPICAL ELASTOMERIC PAD



ELEVATION A



ELEVATION B

NOTES:

1. SEE SHEET 29/41 FOR BEARING NOTES.

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

REVISED	DATE	STRUCTURE FILE NUMBER
	12-02-99	3/16066/

DRAWN	PREPARED
JAS	TOM

REVISED	CHECKED
AAA	JWM

BEARING DETAILS - 2 OF 2
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

31/41

115/125

Wed Dec 11:47:41 1999

12-01-99

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BRIDGE 5B BRIDGE 5C

℄ PIER 5D-8
STA. 403+143.642 (℄ RAMP D)

℄ PIER 5D-9
STA. 403+169.071

60± @ 20° C

25 395 ALONG EDGE OF DECK
9 SPACES @ 2822 (-) = 25 395 SAW CUT CONTROL JOINT IN CONC.

2 LENGTHS OF 6-S19M07 (BOT) @200 C.C.-1000

720 BARRIER (TYP.)

2 LENGTHS OF 8-S16M01 IN BARRIER

86-S16M02, 86-S19M01, 86-S19M02 @296(+) = 25 173(IN BARRIER)

141-S22M02(TOP) @ 180 (-) C.C. = 25 204

141-S19M03(BOT) @ 180(-) C.C. = 25 204

PRESTRESSED CONCRETE I-GIRDER. (TYP.)

S16M06 (BOT)

A

2 LENGTHS OF 17-S19M07 (BOT) 16 EQUAL SPACES

800 MIN. (TOP)

69-S16M03 (TOP) 68 EQUAL SPACES C.C.

69-S16M01 (TOP) 68 EQUAL SPACES C.C.

68-S16M04 (TOP) @ 67 EQUAL SPACES C.C. STAGGERED BARS OVER PIERS (SEE DETAILS, THIS SHEET)

69-S16M01 (TOP) 68 EQUAL SPACES C.C.

78 - S16M05 (SPACING TO MATCH S19M07)

1380 MIN.

780 MIN.

℄ RAMP D

86-S16M02, 86-S19M01, 86-S19M02 @ 296 (-) = 25 147 (IN BARRIER)

720 BARRIER (TYP.)

2 LENGTHS OF 8-S16M01 IN BARRIER

141-S22M01 (TOP) @180(-) C.C. = 25 204

141-S19M03 (BOT) @180(-) C.C. = 25 204

1020 MIN. (BOT), (TYP.)

2 LENGTHS OF 16-S19M07 (BOT) 15 EQUAL SPACES

2 LENGTHS OF 6-S19M07 (BOT) @ 200 C.C.-1000

℄ EXPANSION JOINT

℄ LIGHT POLE PLATFORM STA. 403+169.071 FOR DETAILS, SEE SHEET 37/41 AND STD. DWG. HL-20.15M.

510 THICKENED SLAB

9 SPACES @ 2819 (-) = 25 369 SAW CUT CONTROL JOINT IN INTERIOR CONC. BARRIER

25 369 ALONG ℄ RAMP D

60± @ 20° C

DECK PLAN - SPAN 1

MATCH LINE, SEE SHEET 33/41

11 258 | 17 116 | 10 108 | 15 966 | 5858 | 582

℄ PIER
6030 5030
S16M04
5030 6030

STAGGERED BARS OVER PIER
(TYPICAL AT ALL PIERS)

BRIDGE 5B BRIDGE 5C
℄ PIER & ℄ EXPANSION JOINT

SEE SHEET 39/41 FOR EXPANSION JOINT DETAILS

65± 65± 65 CLR
S16M06
S16M05
405
235
CONSTRUCTION JOINT
535
460
300
50
40 CLR
150±
125 MIN.
℄ BEARING
480

SECTION A

NOTES :

1. SEE SHEETS 3 & 4/9 FOR GENERAL NOTES.
2. SEE SHEET 5/9 FOR GEOMETRIC LAYOUT.
3. SEE SHEET 36 & 37/41 FOR DECK SECTIONS, & CONTROL JOINT DETAILS.
4. SEE SHEET 37/41 FOR LIGHT POLE PLAFORM & BARRIER DETAILS.
5. SEE SHEET 38/41 FOR BAR SCHEDULE.
6. DIMENSIONS NOTED AS ± ARE APPROXIMATE AT 20°C.
7. TRANSVERSE BARS SPLICE LENGTHS SHALL BE 1380 MINIMUM (TOP) AND 780 MINIMUM (BOTTOM).
8. LONGITUDINAL BARS SPLICE LENGTH SHALL BE 1020mm (TOP) MINIMUM AND 800mm MINIMUM (BOTTOM), UNLESS NOTED.
9. TRANSVERSE BARS SHALL BE PLACED 90° TO ℄
10. FOR RAILING ANCHORS AND ADDITIONAL DECK BARS AT RAILING POSTS, SEE SHEET 25/125.

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	REVISED NOTES	12-22-99	VJR

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

DATE REVISED 12-22-99
STRUCTURE FILE NUMBER 316066 I
DRAWN JAS
REVIEWED
PREPARED VPH
CHECKED VJR

DECK REINFORCING PLAN, I OF 4
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X57753

32/41

116/125

ADDENDUM NO. 1
DEC. 22, 1999

12/17/99 Fri Dec 17 15:39:06 1999

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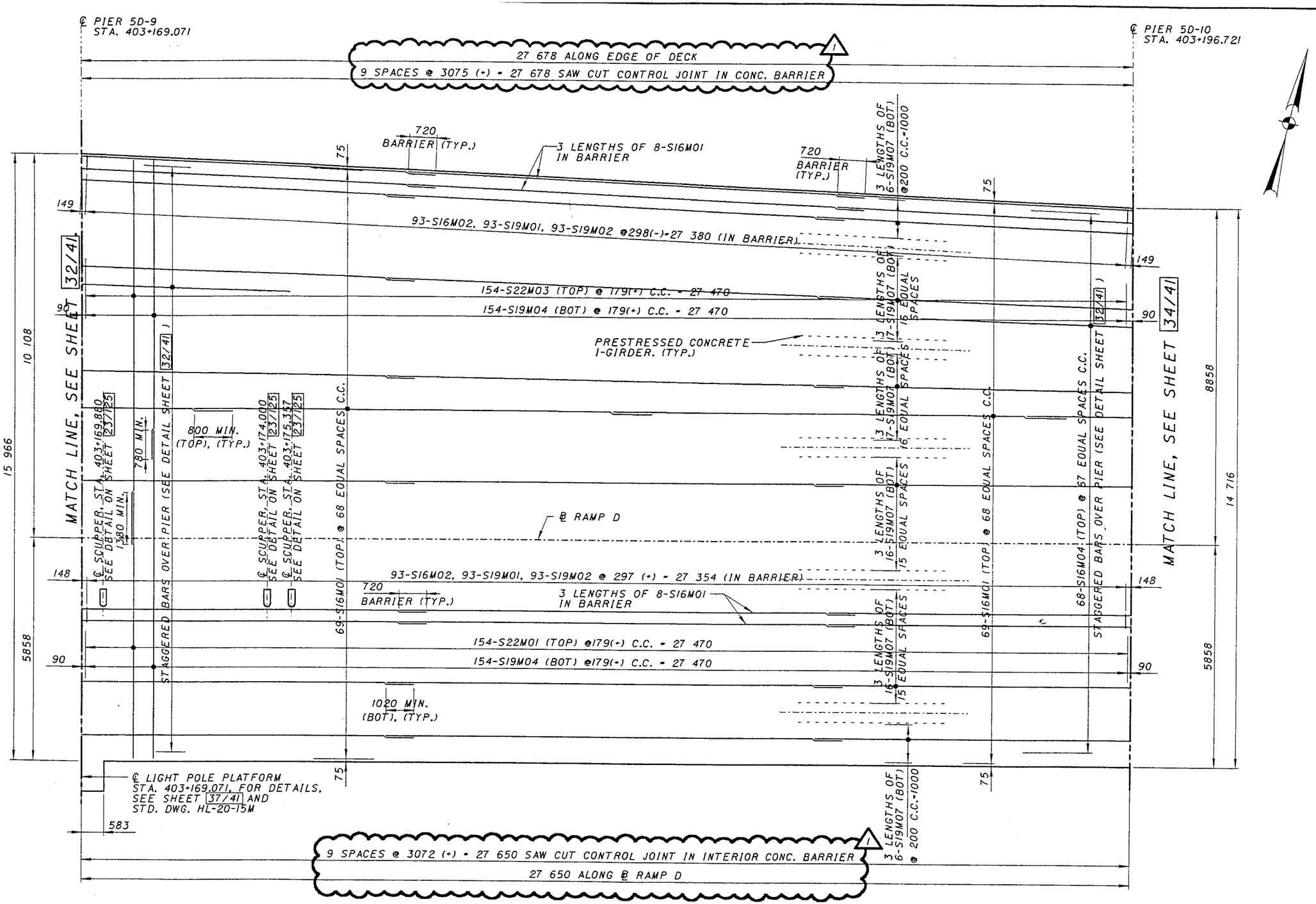

DECK PLAN - SPAN 2

NOTES :

1. SEE SHEET 32/41 FOR NOTES.
2. FOR DRAINAGE PIPE HANGER DETAILS CAST IN DECK, SEE SHEET 24/125.

ADDENDUM NO. 1
DEC. 22, 1999

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	ADDED BARRIER CONTROL JOINT SPACING	12-22-99	VJR

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

REVISED DATE 12-22-99
STRUCTURE FILE NUMBER 3160661

DRAWN JAS
REVIEWED
PREPARED VJR
CHECKED TOM

DECK REINFORCING PLAN, 2 OF 4
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

33/41

117/125

12/17/99 Fri Dec 17 15:39:37 1999

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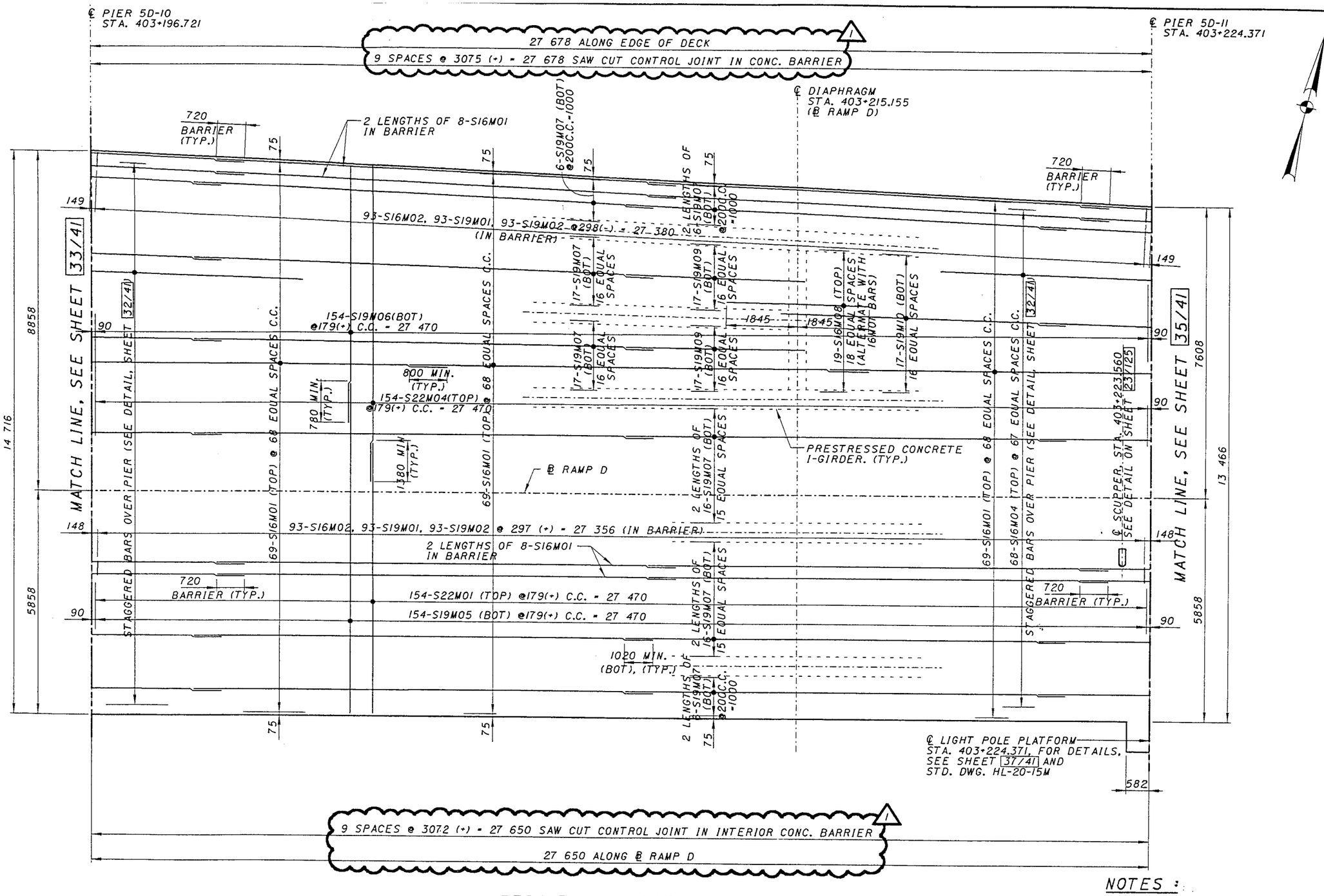


DECK PLAN - SPAN 3

NOTES :

1. SEE SHEET 32/41 FOR NOTES.
2. FOR DRAINAGE PIPE HANGER DETAILS CAST IN DECK, SEE SHEET 24/125 .

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	ADDED BARRIER CONTROL JOINT SPACING	12-22-99	VJR

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2300
CINCINNATI, OH 45202-2720

PREPARED VJR | DRAWN JAS | REVISED 12-22-99 | DATE
CHECKED TOM | REVIEWED | STRUCTURE FILE NUMBER 316066

DECK REINFORCING PLAN, 3 OF 4
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

34/41

118/125

ADDENDUM NO. 1
DEC. 22, 1999

℄ PIER 5D-11
STA. 403+224.371

25 395 ALONG EDGE OF DECK
9 SPACES @ 2822 (-) = 25 395 SAW CUT CONTROL JOINT IN CONC. BARRIER

720 IN BARRIER (TYP.)
2 LENGTHS OF 8-S16M01 IN BARRIER
2 LENGTHS OF 6-S19M07 (BOT) @200 C.C.-1000
8-S16M02 IN BARRIER
60± @ 20° C

149 86-S16M02, 86-S19M01, 86-S19M02 @296(-) = 25 173 (IN BARRIER)
90 141-S19M11 (BOT) @ 180(-) C.C. = 25 204
800 MIN. (TOP), (TYP.)
141-S22M05 (TOP) @ 180(-) C.C. = 25 204
℄ RAMP D
148 86-S16M01, 86-S19M01, 86-S19M02 @296(+)-25 147 (IN BARRIER)
2 LENGTHS OF 8-S16M01 IN BARRIER
141-S22M04 (TOP) @180(-) C.C. = 25 204
90 141-S19M05 (BOT) @180(-) C.C. = 25 204
1070 MIN. (BOT), (TYP.)

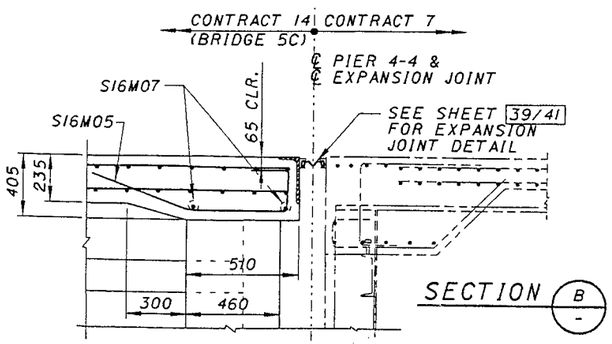
MATCH LINE SEE SHEET 34/41
13 466
7608
5858
STAGGERED BARS OVER PIER (SEE DETAIL SHEET 32/41)
69-S16M01 (TOP) @ 68 EQUAL SPACES C.C.
2 LENGTHS OF 17-S19M07 (BOT) 18 EQUAL SPACES
2 LENGTHS OF 16-S19M07 (BOT) 15 EQUAL SPACES
2 LENGTHS OF 6-S19M07 (BOT) @200 C.C. -1000
16-S19M08 (BOT) 15 EQUAL SPACES
17-S19M08 (BOT) 18 EQUAL SPACES
6-S19M08 (BOT) @200 C.C. -1000
61-S16M05 SPACING TO MATCH S19M08
PRESTRESSED CONCRETE I-GIRDER. (TYP.)
720 IN BARRIER (TYP.)
8-S16M07 IN BARRIER
S16M07 (BOT)
END CONTRACT 14 STA. 403+249.800
℄ PIER 4-4 STA. 403+249.800
6458
12 316
5858
75 60

℄ LIGHT POLE PLATFORM STA. 403+224.371, FOR DETAILS, SEE SHEET 37/41 AND STD. DWG. HL-20-15M
583

9 SPACES @ 2819 (-) = 25 369 SAW CUT CONTROL JOINT IN INTERIOR CONC. BARRIER
25 369 ALONG ℄ RAMP D

CONTRACT 14 | CONTRACT 7 (BRIDGE 5C)
CONTRACT 14 | CONTRACT 7

DECK PLAN - SPAN 4



SECTION B -

NOTES :
1. SEE SHEET 32/41 FOR NOTES.

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	ADDED BARRIER CONTROL JOINT SPACING	12-22-99	VJR

PREPARED VJR | DRAWN JAS | REVISED 12-22-99 | DATE
CHECKED TOM | REVIEWED | STRUCTURE FILE NUMBER 3160661

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2250
CINCINNATI, OH 45202-2720
PB

DECK REINFORCING PLAN, 4 OF 4
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

35/41
119/125

ADDENDUM NO. 1
DEC. 22, 1999

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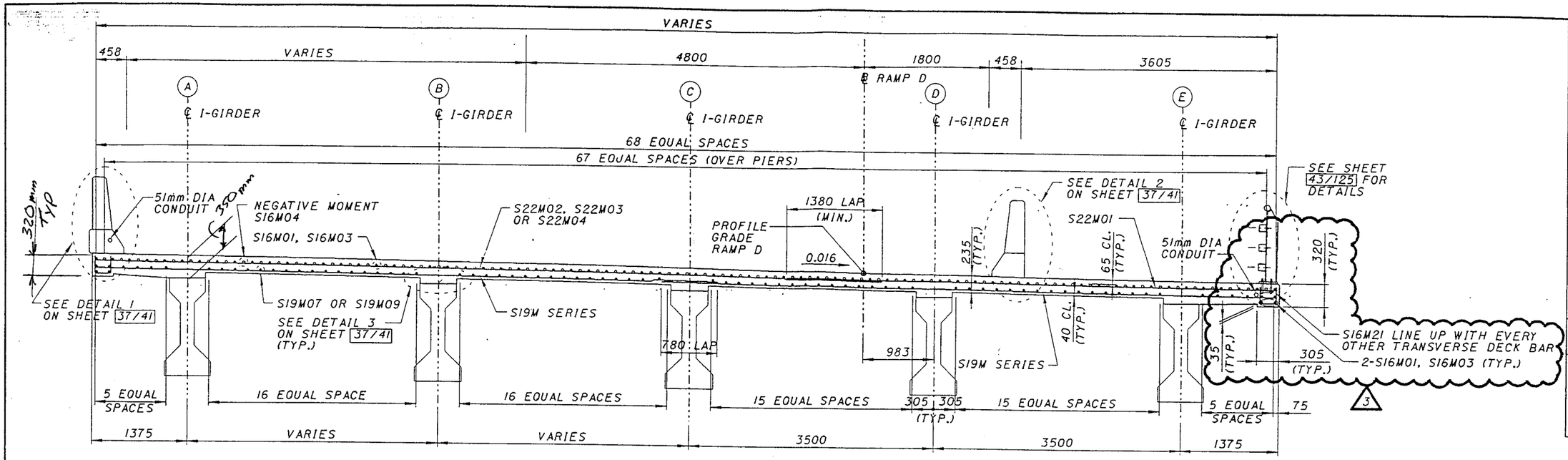
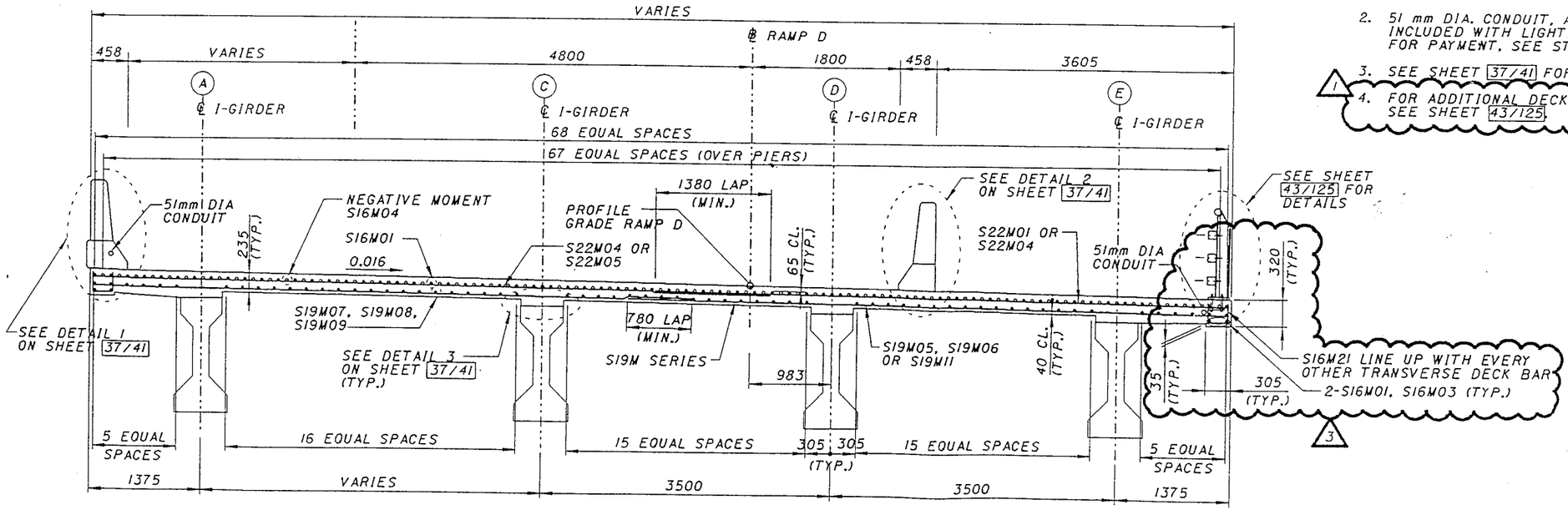
12/17/99 Fri Dec 17 15:40:39 1999



TYPICAL SECTION
STA. 403+143.642 TO STA. 403+215.155
(LOOKING UP STATIONS)



TYPICAL SECTION
STA. 403+215.155 TO STA. 403+249.800
(LOOKING UP STATIONS)

NOTES:

1. FOR DRAINAGE DETAILS, SEE SHEET 18, 20, 21, 23/125 & 24/125.
2. 51 mm DIA. CONDUIT, ANCHOR BOLTS AND JUNCTION BOX INCLUDED WITH LIGHTING ITEMS. FOR PAYMENT, SEE STD. DWG. HL-20.14M.
3. SEE SHEET 37/41 FOR DECK DETAILS.
4. FOR ADDITIONAL DECK BARS AT RAILING POSTS, SEE SHEET 43/125.

REVISION NO.	DESCRIPTION	DATE	BY
1 ADDENDUM	ADDED NOTE, REVISED DRIP GROOVE LOCATION	12-22-99	VJR
3 REVISION	MODIFY EDGE OF DECK	3-17-00	JWM

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2300
CINCINNATI, OH 45202-2750
(513) 852-4900

REVISED 12-22-99 | DRAWN JAS | PREPARED VPH | CHECKED TON
DATE | REVISED | STRUCTURE FILE NUMBER 3160661

DECK REINFORCING SECTIONS
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

36/41
120/125

REVISION NO. 3
MAR. 17, 2000

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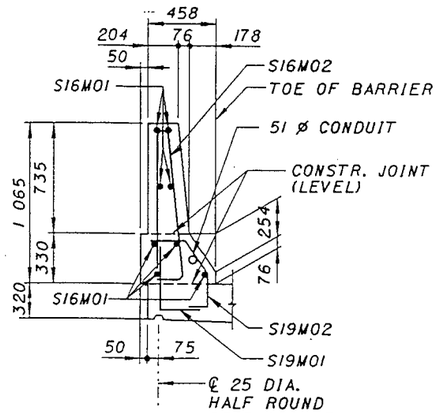
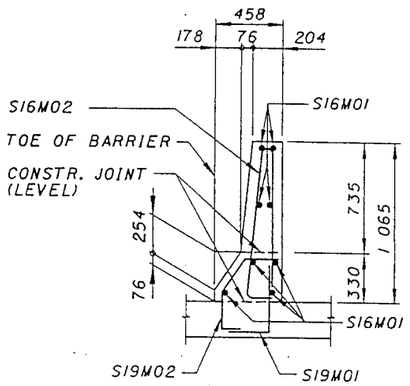
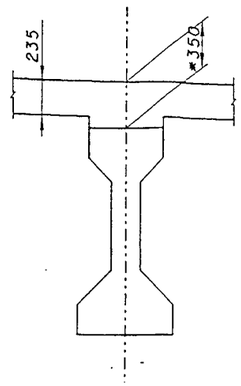


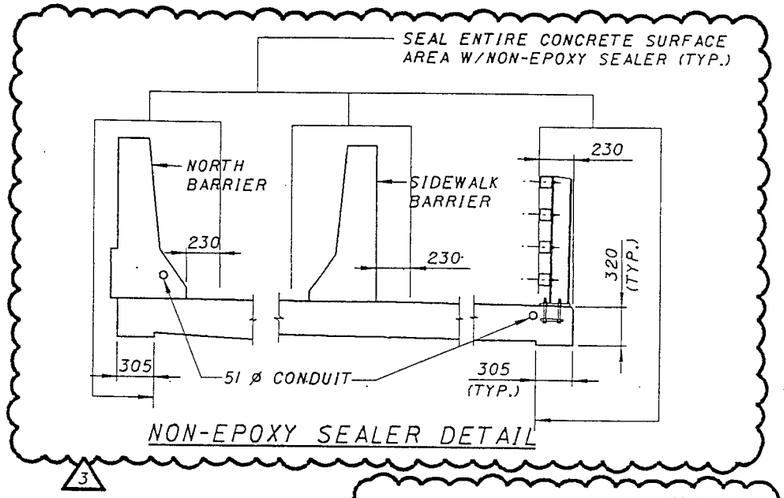
DETAIL 1/36



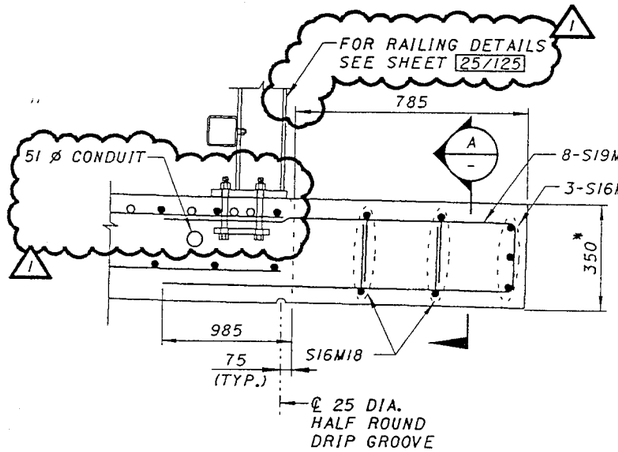
DETAIL 2/36



DETAIL 3/36

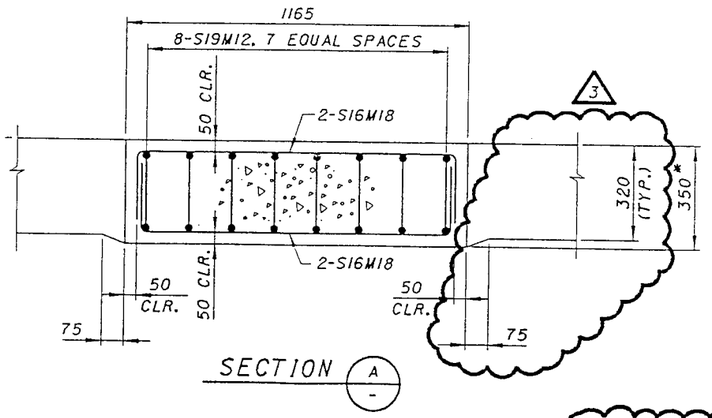


NON-EPOXY SEALER DETAIL

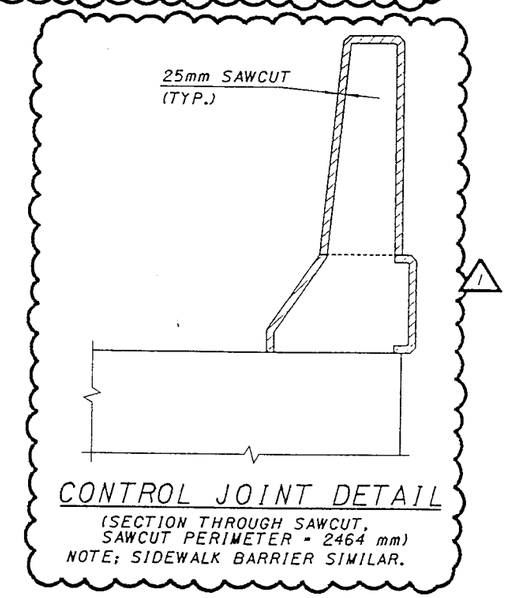


*BOTTOM OF SLAB TO MATCH TOP OF FASCIA GIRDER

SECTION THROUGH LIGHT POLE PLATFORM
(2 REQUIRED)



SECTION A/-



CONTROL JOINT DETAIL
(SECTION THROUGH SAWCUT, SAWCUT PERIMETER = 2464 mm)
NOTE: SIDEWALK BARRIER SIMILAR.

* DECK SLAB DEPTH:

THE DISTANCE SHOWN FROM TOP OF DECK SLAB TO TOP OF GIRDER IS THE DESIGN DIMENSION. THE QUANTITY OF DECK CONCRETE TO BE PAID FOR SHALL BE BASED ON THIS DIMENSION, EVEN THOUGH DEVIATION FROM IT MAY BE NECESSARY BECAUSE THE TOP FLANGE OF THE BEAM MAY NOT HAVE THE EXACT CAMBER OR CONFORMATION REQUIRED TO PLACE IT PARALLEL TO THE FINISHED GRADE.

NOTES:

1. 51 mm DIA. CONDUIT, ANCHOR BOLTS AND JUNCTION BOX INCLUDED WITH LIGHTING ITEMS FOR PAYMENT, SEE STD. DWG. HL-20.14M.
2. THE CONTROL JOINTS FOR CONCRETE PARAPETS SHALL BE CONSTRUCTED BY SAWING 25 mm DEEP ALONG PERIMETER OF THE PARAPET AS SOON AS THE SAW CAN BE OPERATED WITHOUT DAMAGING THE CONCRETE.
3. 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.
4. THE PERIMETER OF THE DEFLECTION CONTROL JOINT SHALL BE SEALED WITH A CAULKING MATERIAL TO A MINIMUM DEPTH OF 25 mm CONFORMING TO FEDERAL SPECIFICATION TT-S-0227E. THE BOTTOM 13 mm OF BOTH THE INSIDE AND OUTSIDE FACES OF THE PARAPET SHOULD BE LEFT UNSEALED TO ALLOW ANY WATER WHICH MAY ENTER THE JOINT TO ESCAPE.
5. SAWCUT SHALL BE PLACED AT A MINIMUM OF 1800 mm AND MAXIMUM OF 3050 mm CENTERS.

REVISION NO.	DESCRIPTION	DATE	BY
ADDENDUM 1	ADD NOTES ADD SAWCUT DETAIL	12-22-99	VJR
REVISION 3	MODIFY EDGE OF DECK	3-17-00	JWM

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
112 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

PREPARED VJR | DRAWN JAS | REVISED 12-22-99 | DATE
CHECKED JWM | REVIEWED | STRUCTURE FILE NUMBER 316066

DECK DETAILS
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

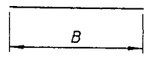
37/41

121/125

REVISION NO. 3
MAR. 17, 2000

MARK	NUMBER	LENGTH (mm)	TYPE	DIMENSIONS (mm) A	B	C	D	E	F		R	REMARK
S16M01	801	12000	1		12000							3
S16M02	716	2150	60		990	915	205					
S16M03	73	7175	1		7175							3
S16M04	204	11060	1		11060							
S16M05	139	1450	25		230	465	395	230				
S16M06	2	17010	1		17010							
S16M07	2	12210	1		12210							
S16M17	6	1065	1		1065							3
S16M18	8	1315	10		1065	1315						3
S16M20	64	600	1		600							3
S16M21	590	550	11		215	200						
S19M01	716	680	10		490	280						
S19M02	716	680	3		270	215	150	230	125			3
S19M03	282	8900	1		8900							
S19M04	308	8325	1		8325							
S19M05	295	5300	1		5300							
S19M06	154	10100	1		10100							
S19M07	640	12000	1		12000							
S19M08	61	5345	1		5345							
S19M09	34	4500	1		4500							
S19M10	17	8000	1		8000							
S19M11	141	8850	1		8850							
S19M12	16	3690	11		1720	250						3
S22M01	449	7000	1		7000							
S22M02	141	11400	1		11400							
S22M03	154	10250	1		10250							
S22M04	295	9000	1		9000							
S22M05	141	5750	1		5750							
S16M08	19	3690	1									* RFI #18

BAR TYPES



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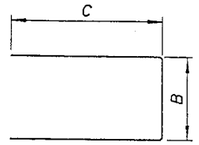

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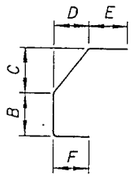

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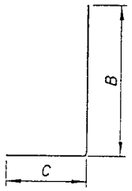
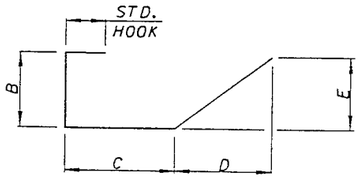
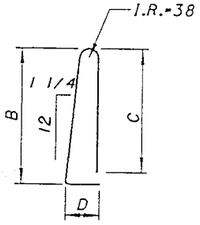


TYPE 10



TYPE 25



TYPE 60

REVISION NO.	DESCRIPTION	DATE	BY
3	NEW BAR	3-17-00	JWM

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2300
CINCINNATI, OH 45202-2720

DRAWN	REVISED	STRUCTURE FILE NUMBER
JAS	12-22-99	316066

PREPARED	CHECKED	REVIEWED
VPH	TOM	

BAR SCHEDULE - DECK
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

38/41

122/125

REVISION NO. 3
MAR. 17, 2000

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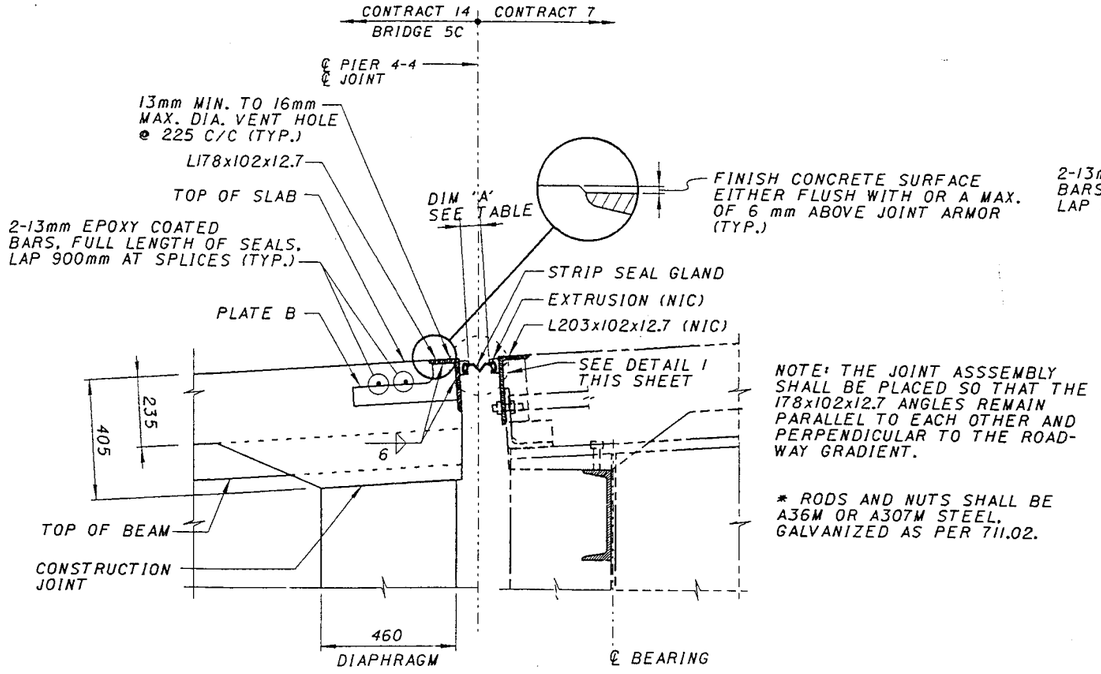
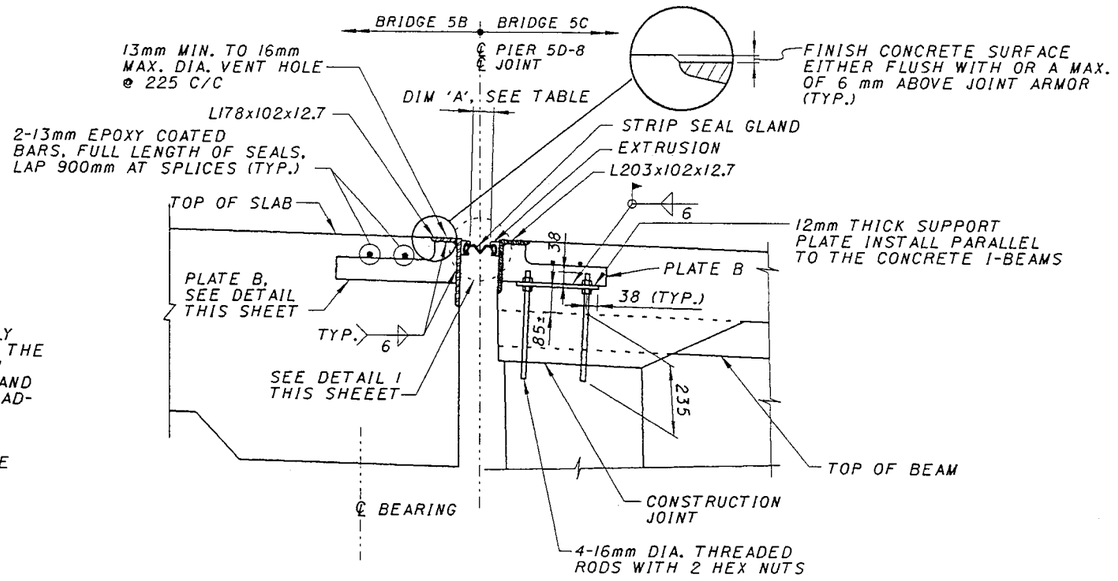
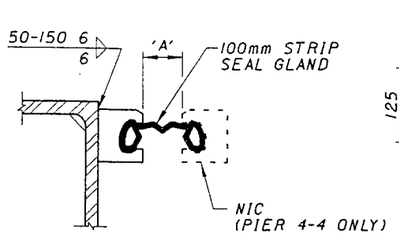


DECK JOINT DETAIL
PIER 4-4



DECK JOINT DETAIL
PIER 5D-8



DETAIL 1/-

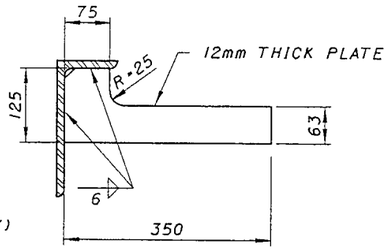


PLATE B DETAIL

STRIP SEAL DIM. 'A' (SEE STD. DWG. EXJ-4-87M)								
	0°C / 32°F	5°C / 41°F	10°C / 50°F	15°C / 59°F	20°C / 68°F	25°C / 77°F	30°C / 86°F	35°C / 95°F
PIER 5D-8	63	59	55	50	45	41	37	33
PIER 4-4	65	59	54	48	42	37	32	27

NOTES:

1. DURING INSTALLATION OF THE SUPPORT/ARMOR FOR THE SUPERSTRUCTURE SIDE OF THE EXPANSION JOINT, THE SEATING OF BEAMS ON BEARINGS SHALL BE CAREFULLY OBSERVED TO ASSURE THAT POSITIVE BEARING IS MAINTAINED. PROPER VERTICAL FIT OF THE SUPPORT ARMOR ON THE GIRDERS SHALL BE ACHIEVED BY POSITIONING OF THE BEVEL FILL PLATES RATHER THAN BY CLAMPING FORCE.
2. FOR ADDITIONAL JOINT DETAILS, NOTES AND INSTALLATION DETAILS NOT SHOWN, SEE SECTIONS A-A, B-B & DETAIL A ON STD. DWG. EXJ-4-87M.
3. THE STRIP SEAL ARMORED JOINT SHALL BE CONTINUOUS THROUGH THE INTERIOR BARRIER, TERMINATE 100mm FROM THE RIGHT EDGE OF DECK AND TERMINATE IN THE BARRIER AT PIERS 4-4 AND 5D-8, PER STD. DWG. EXJ-6-95M.

REVISION NO.	DESCRIPTION	DATE	BY
1 ADDENDUM	ADD NOTE	12-22-99	JWM

DESIGN AGENT: PARSONS BRINCKERHOFF, INC. 312 ELM STREET, SUITE 2500 CINCINNATI, OH 45202-2720 TEL. 513.

PREPARED	DRAWN	REVISED	DATE
JWM	JAS		12-22-99
CHECKED	REVIEWED	STRUCTURE FILE NUMBER	
VJR		3/60661	

DECK JOINT DETAILS
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

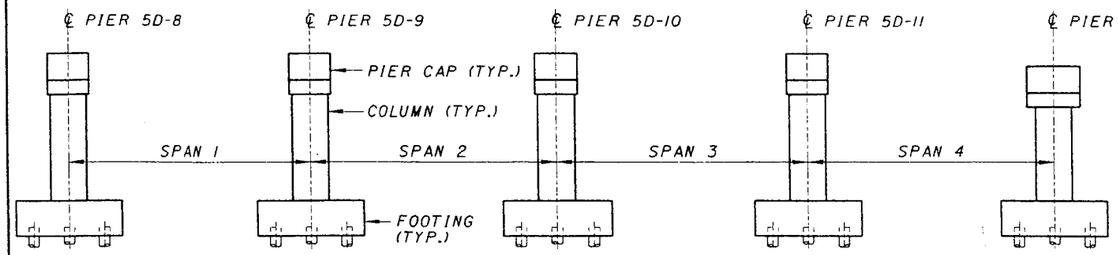
CITY OF CINCINNATI
CONTRACT NO. 75X5753

39/41

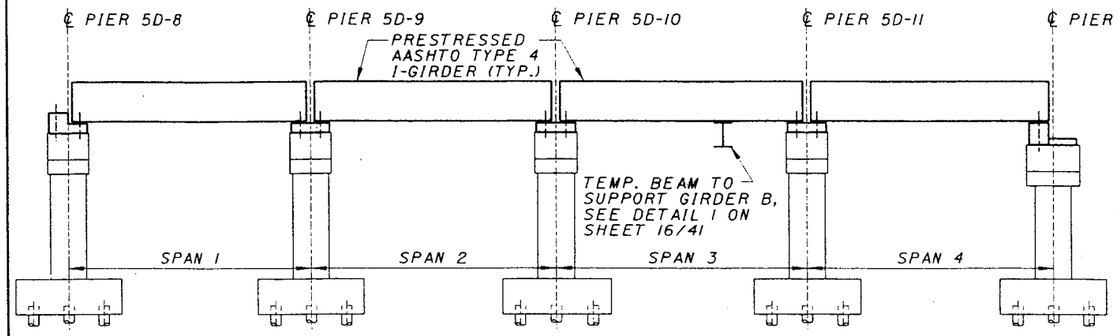
123/125

ADDENDUM NO. 1
DEC. 22, 1999

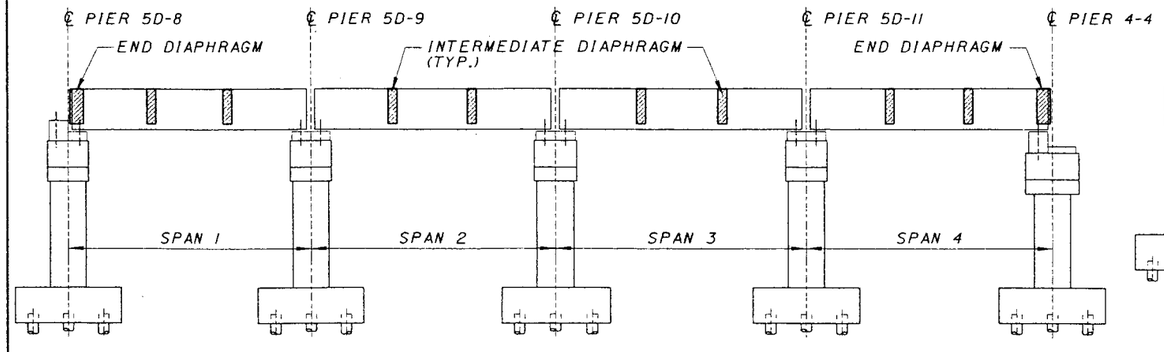
12/17/99 Fri Dec 17 15:43:56 1999 i:\fww\cc... rs\14\struct\bridge5c\5cdsl408.dgn:\BYERS_PRF\HP55\PLOT\5cdsl408.prf



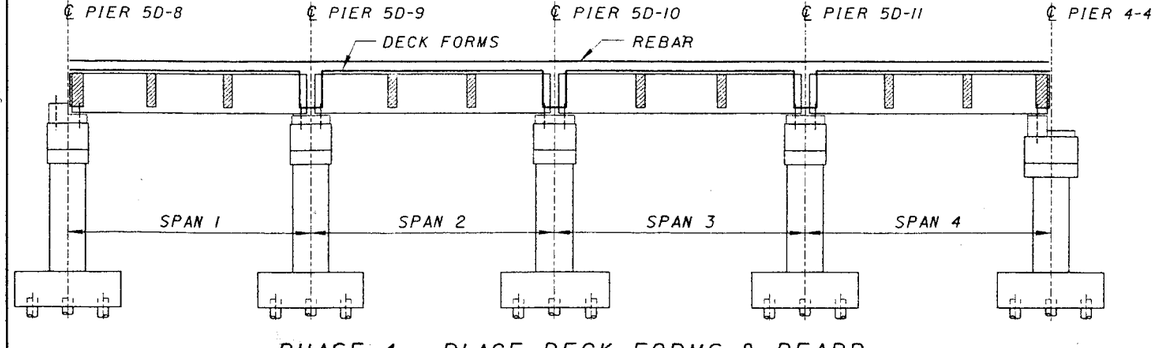
PHASE 1 - CONSTRUCT SUBSTRUCTURE



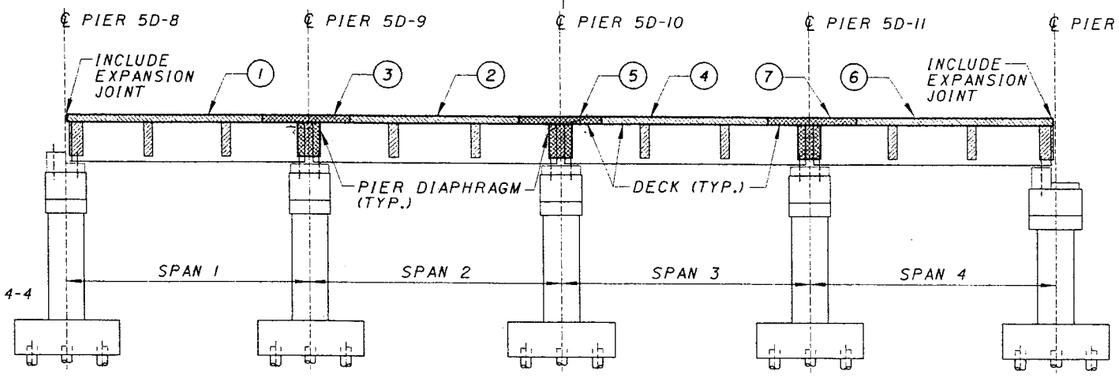
PHASE 2 - ERECT GIRDERS ON BEARING PADS



PHASE 3 - CAST INTERMEDIATE & END DIAPHRAGMS



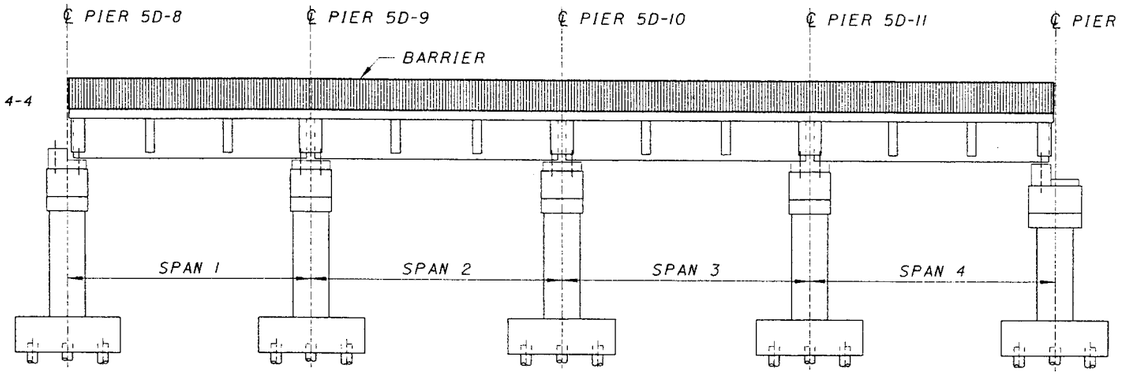
PHASE 4 - PLACE DECK FORMS & REABR



③ : NUMBERS REPRESENT POURING SEQUENCE

* : OTHER POURING SEQUENCES MAY BE USED WITH ENGINEER'S APPROVAL.

PHASE 5 - PLACE DECK & PIER DIAPHRAGMS IN SEQUENCE OF NUMBERS SHOWN. PIER DIAPHRAGM IS PLACED WITH NEGATIVE MOMENT DECK POUR*.



PHASE 6 - PLACE BARRIER

CONSTRUCTION SEQUENCE
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

40/41

124/125

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

DATE REVISED	STRUCTURE FILE NUMBER
12-02-99	316066.1

DRAWN	REVIEWED
JAS	

PREPARED	CHECKED
TOM	VWM

Wed Dec 11:48:33 1999

12/01/99

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CONSTRUCTION ELEVATION FOR DECK PLACEMENT

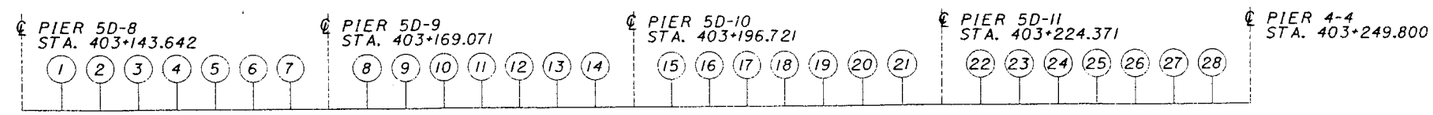
STATION / LOCATION		1	2	3	4	5	6	7	8	9	10	11	12	13
		403+144.042	403+147.882	403+152.118	403+156.355	403+160.592	403+164.832	403+168.738	403+169.406	403+173.680	403+178.289	403+182.897	403+187.506	403+192.114
LEFT PARAPET ELEVATION	FINAL DECK ELEVATION	156.979	156.878	156.782	156.701	156.635	156.585	156.553	156.549	156.532	156.531	156.548	156.585	156.640
	DEAD LOAD DEFLECTION	0.000	0.029	0.050	0.057	0.049	0.028	0.000	0.000	0.035	0.061	0.071	0.061	0.035
A	FINAL DECK ELEVATION	156.964	156.863	156.767	156.686	156.620	156.571	156.538	156.534	156.517	156.516	156.534	156.570	156.625
	DEAD LOAD DEFLECTION	0.000	0.029	0.050	0.057	0.049	0.028	0.000	0.000	0.035	0.061	0.071	0.061	0.035
B	FINAL DECK ELEVATION	156.905	156.806	156.711	156.632	156.567	156.520	156.488	156.485	156.469	156.470	156.489	156.527	156.584
	DEAD LOAD DEFLECTION	0.000	0.029	0.049	0.056	0.049	0.028	0.000	0.000	0.036	0.062	0.071	0.062	0.036
C	FINAL DECK ELEVATION	156.846	156.748	156.656	156.577	156.514	156.468	156.438	156.435	156.421	156.423	156.444	156.484	156.542
	DEAD LOAD DEFLECTION	0.000	0.029	0.049	0.056	0.049	0.028	0.000	0.000	0.037	0.063	0.073	0.063	0.037
BASE LINE	FINAL DECK ELEVATION	156.806	156.708	156.615	156.537	156.474	156.428	156.398	156.395	156.381	156.383	156.404	156.444	156.502
	DEAD LOAD DEFLECTION	0.000	0.029	0.049	0.056	0.049	0.028	0.000	0.000	0.038	0.064	0.074	0.064	0.038
D	FINAL DECK ELEVATION	156.790	156.692	156.599	156.521	156.458	156.412	156.382	156.379	156.365	156.367	156.388	156.428	156.486
	DEAD LOAD DEFLECTION	0.000	0.029	0.049	0.056	0.049	0.028	0.000	0.000	0.038	0.065	0.075	0.065	0.038
E	FINAL DECK ELEVATION	156.734	156.636	156.543	156.465	156.402	156.356	156.326	156.323	156.309	156.311	156.332	156.372	156.430
	DEAD LOAD DEFLECTION	0.000	0.029	0.050	0.057	0.049	0.029	0.000	0.000	0.039	0.068	0.078	0.068	0.039
RIGHT PARAPET ELEVATION	FINAL DECK ELEVATION	156.720	156.622	156.529	156.451	156.388	156.342	156.312	156.309	156.295	156.297	156.318	156.358	156.416
	DEAD LOAD DEFLECTION	0.000	0.029	0.050	0.057	0.049	0.029	0.000	0.000	0.039	0.068	0.078	0.068	0.039

CONSTRUCTION ELEVATION FOR DECK PLACEMENT

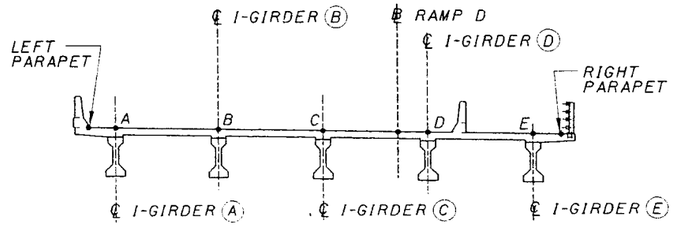
STATION / LOCATION		14	15	16	17	18	19	20
		403+196.386	403+197.056	403+201.328	403+205.937	403+210.546	403+215.157	403+219.763
LEFT PARAPET ELEVATION	FINAL DECK ELEVATION	156.707	156.719	156.804	156.915	157.043	157.190	157.356
	DEAD LOAD DEFLECTION	0.000	0.000	0.034	0.060	0.072	0.065	0.040
A	FINAL DECK ELEVATION	156.692	156.704	156.789	156.900	157.029	157.175	157.341
	DEAD LOAD DEFLECTION	0.000	0.000	0.034	0.060	0.072	0.065	0.040
B	FINAL DECK ELEVATION	156.652	156.665	156.751	156.864	156.994	157.142	-
	DEAD LOAD DEFLECTION	0.000	0.000	0.035	0.060	0.069	0.066	-
C	FINAL DECK ELEVATION	156.612	156.625	156.713	156.827	156.959	157.109	157.278
	DEAD LOAD DEFLECTION	0.000	0.000	0.035	0.062	0.073	0.066	0.039
BASE LINE	FINAL DECK ELEVATION	156.572	156.585	156.673	156.787	156.919	157.069	157.238
	DEAD LOAD DEFLECTION	0.000	0.000	0.036	0.064	0.074	0.066	0.039
D	FINAL DECK ELEVATION	156.556	156.569	156.675	156.771	156.903	157.053	157.222
	DEAD LOAD DEFLECTION	0.000	0.000	0.037	0.065	0.075	0.066	0.038
E	FINAL DECK ELEVATION	156.500	156.513	156.601	156.715	156.847	156.997	157.166
	DEAD LOAD DEFLECTION	0.000	0.000	0.039	0.068	0.078	0.067	0.039
RIGHT PARAPET ELEVATION	FINAL DECK ELEVATION	156.486	156.499	156.587	156.701	156.833	156.983	157.152
	DEAD LOAD DEFLECTION	0.000	0.000	0.039	0.068	0.078	0.067	0.039

CONSTRUCTION ELEVATION FOR DECK PLACEMENT

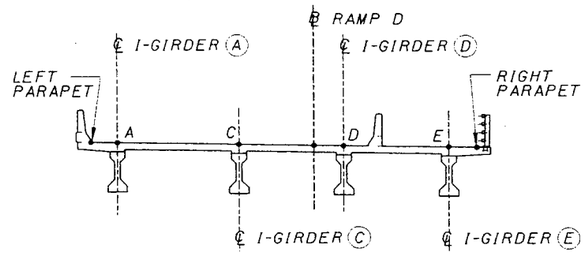
STATION / LOCATION		21	22	23	24	25	26	27	28
		403+224.036	403+224.706	403+228.611	403+232.851	403+237.088	403+241.324	403+	403+249.320
LEFT PARAPET ELEVATION	FINAL DECK ELEVATION	157.527	157.554	157.726	157.955	158.156	158.327	158.528	158.706
	DEAD LOAD DEFLECTION	0.000	0.000	0.028	0.048	0.055	0.048	0.028	0.000
A	FINAL DECK ELEVATION	157.512	157.539	157.712	157.941	158.142	158.312	158.513	158.692
	DEAD LOAD DEFLECTION	0.000	0.000	0.028	0.048	0.055	0.048	0.028	0.000
B	FINAL DECK ELEVATION	-	-	-	-	-	-	-	-
	DEAD LOAD DEFLECTION	-	-	-	-	-	-	-	-
C	FINAL DECK ELEVATION	157.452	157.480	157.655	157.887	158.091	158.265	158.469	158.650
	DEAD LOAD DEFLECTION	0.000	0.000	0.028	0.048	0.055	0.048	0.028	0.000
BASE LINE	FINAL DECK ELEVATION	157.412	157.440	157.615	157.847	158.051	158.225	158.429	158.610
	DEAD LOAD DEFLECTION	0.000	0.000	0.028	0.048	0.055	0.048	0.028	0.000
D	FINAL DECK ELEVATION	157.396	157.424	157.599	157.831	158.035	158.209	158.413	158.594
	DEAD LOAD DEFLECTION	0.000	0.000	0.028	0.048	0.056	0.049	0.028	0.000
E	FINAL DECK ELEVATION	157.340	157.368	157.543	157.775	157.979	158.153	158.357	158.538
	DEAD LOAD DEFLECTION	0.000	0.000	0.028	0.049	0.057	0.050	0.029	0.000
RIGHT PARAPET ELEVATION	FINAL DECK ELEVATION	157.326	157.354	157.529	157.761	157.965	158.139	158.343	158.524
	DEAD LOAD DEFLECTION	0.000	0.000	0.028	0.049	0.057	0.050	0.029	0.000



LONGITUDINAL SCREED POINTS



STA. 403+143.642 TO STA. 403+215.155



STA. 403+215.155 TO STA. 403+249.800

TRANSVERSE SCREED POINTS

NOTE:

1. CONSTRACTOR SHALL ADD FINAL DECK ELEVATION AND DEAD LOAD DEFLECTION TO GET SCREED ELEVATION.

DESIGN AGENCY
PARSONS BRINCKERHOFF, INC.
312 ELM STREET, SUITE 2500
CINCINNATI, OH 45202-2720

REVISED	DATE	STRUCTURE FILE NUMBER
	12-02-99	3160661

DRAWN	REVIEWED
JAS	

PREPARED	CHECKED
VPH	TOM

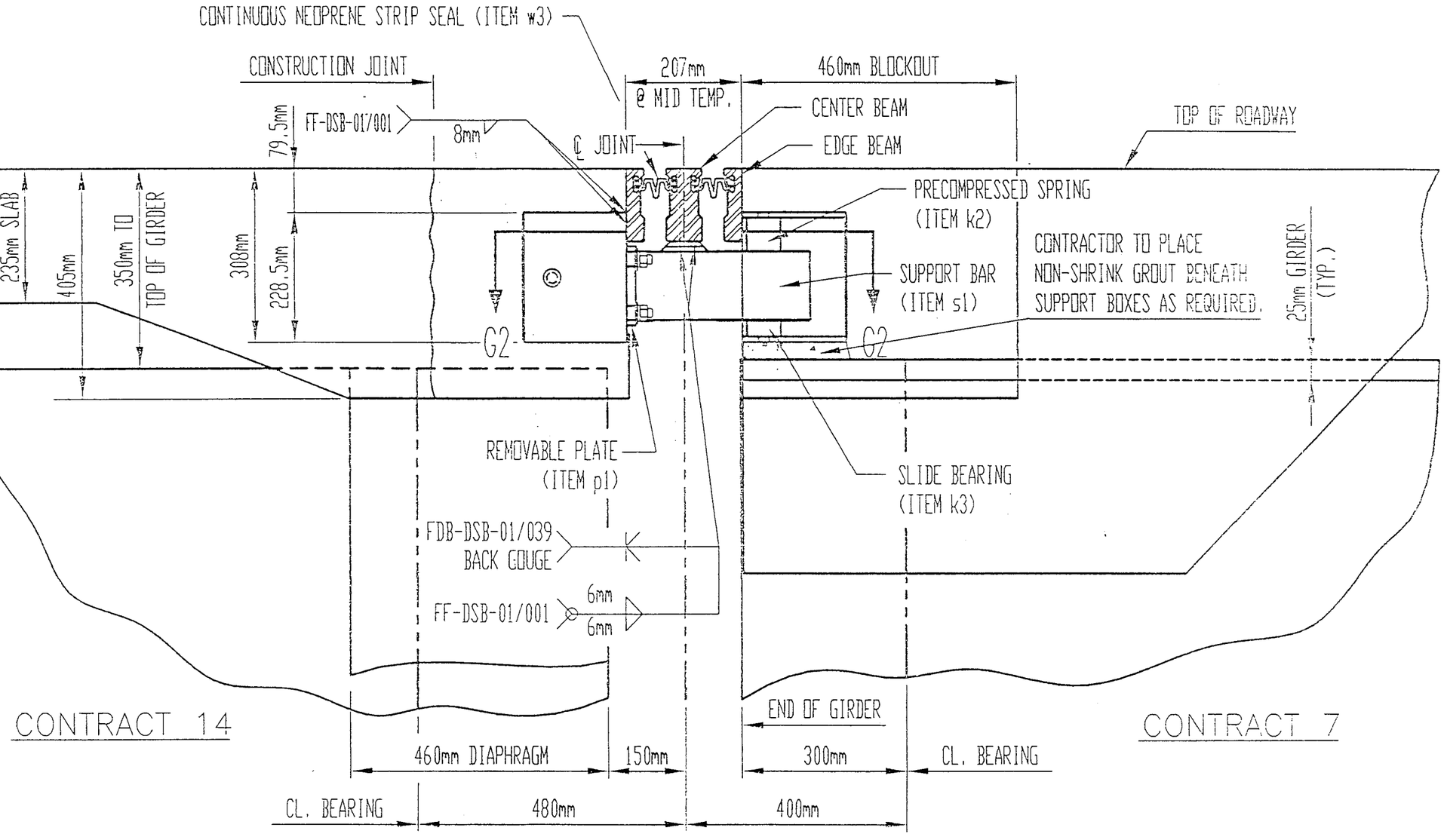
BRIDGE SCREED ELEVATION TABLE
BRIDGE NO. 5C
CLAY WADE BAILEY BRIDGE TO SECOND STREET

CITY OF CINCINNATI
CONTRACT NO. 75X5753

41/41

125/125

ASSEMBLY WITH 16mm-11UNC
WITH NUT (p3),
5) WASHER,
m LONG TUBING (b3).



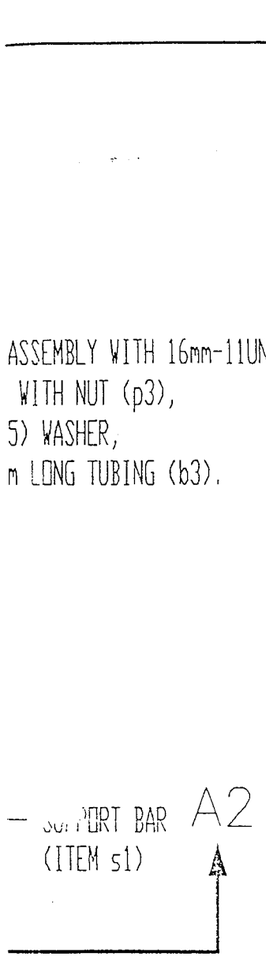
ⒷSECTION A2–A2

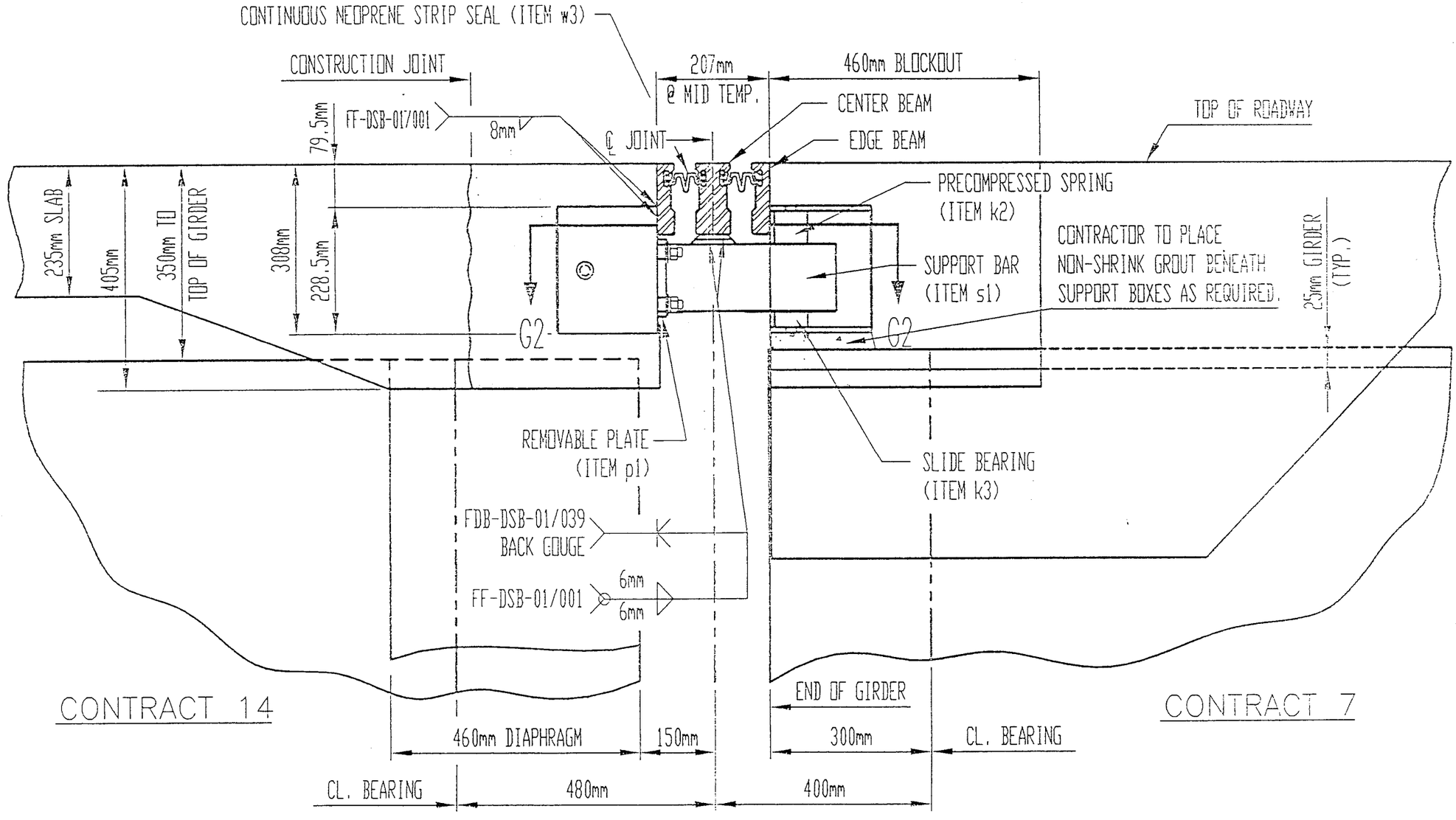
ALL DIMENSIONS ARE PERPENDICULAR TO JOINT

Pier 4-4 (Ramp D) Modular Joint

03/08/2000

ASSEMBLY WITH 16mm-11UNC
WITH NUT (p3),
5) WASHER,
m LONG TUBING (b3).





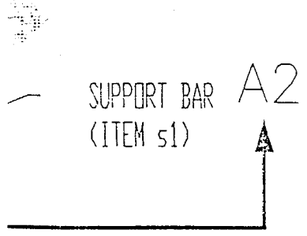
B SECTION A2–A2

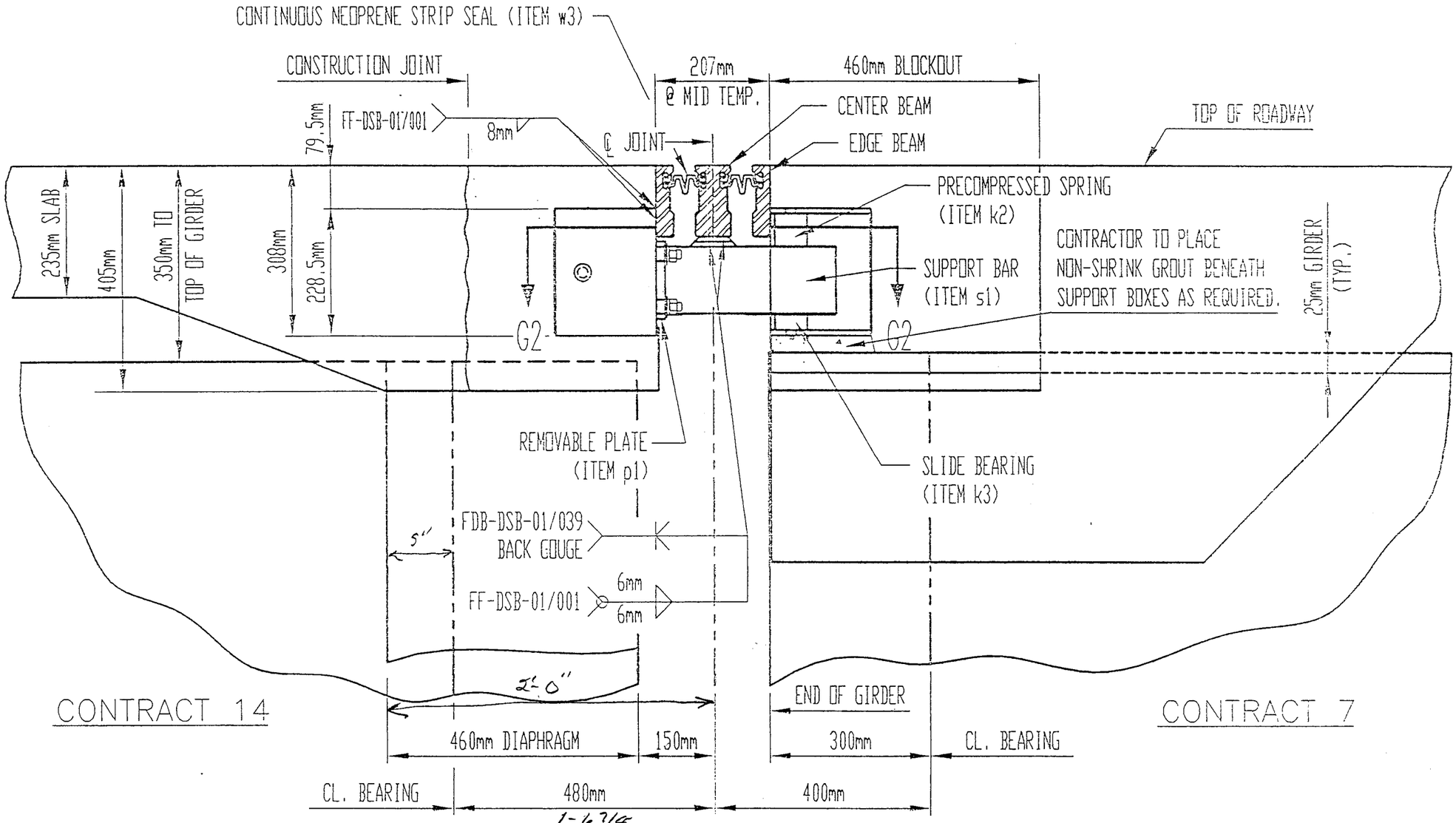
ALL DIMENSIONS ARE PERPENDICULAR TO JOINT

Pier 4-4 (Ramp D) Modular Joint

03/08/2000

p1) ASSEMBLY WITH 16mm-11UNC
(p2) WITH NUT (p3),
K (p5) WASHER,
38mm LONG TUBING (b3).





B SECTION A2–A2

ALL DIMENSIONS ARE PERPENDICULAR TO JOINT

Pier 4-4 (Ramp D) Modular Joint

03/09/2000

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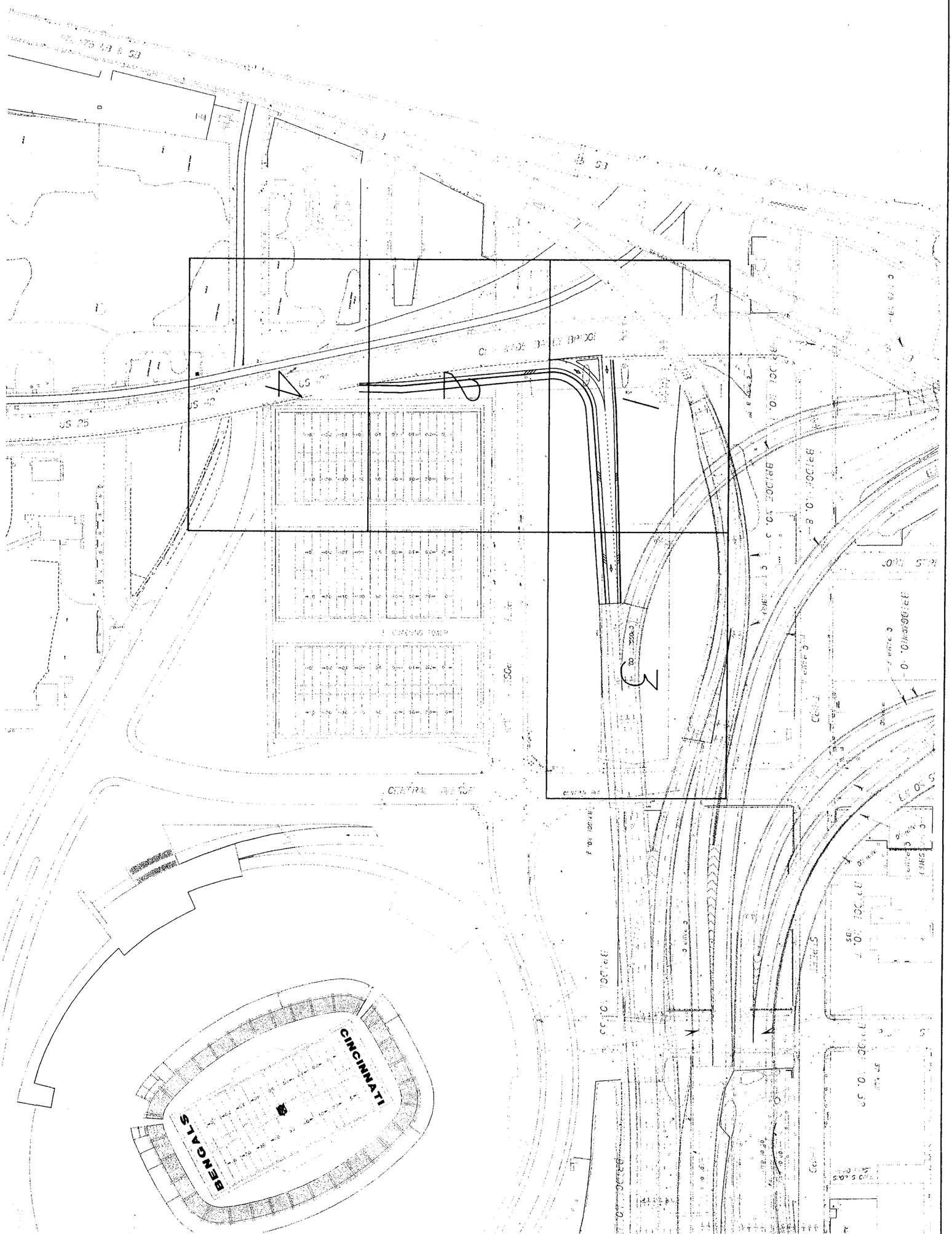

CITY OF CINCINNATI CONTRACT No. 75X5753	CONTRACT 14 UTILITY INDEX	DATE 12/01/99 CHECKED	NOT TO SCALE	N