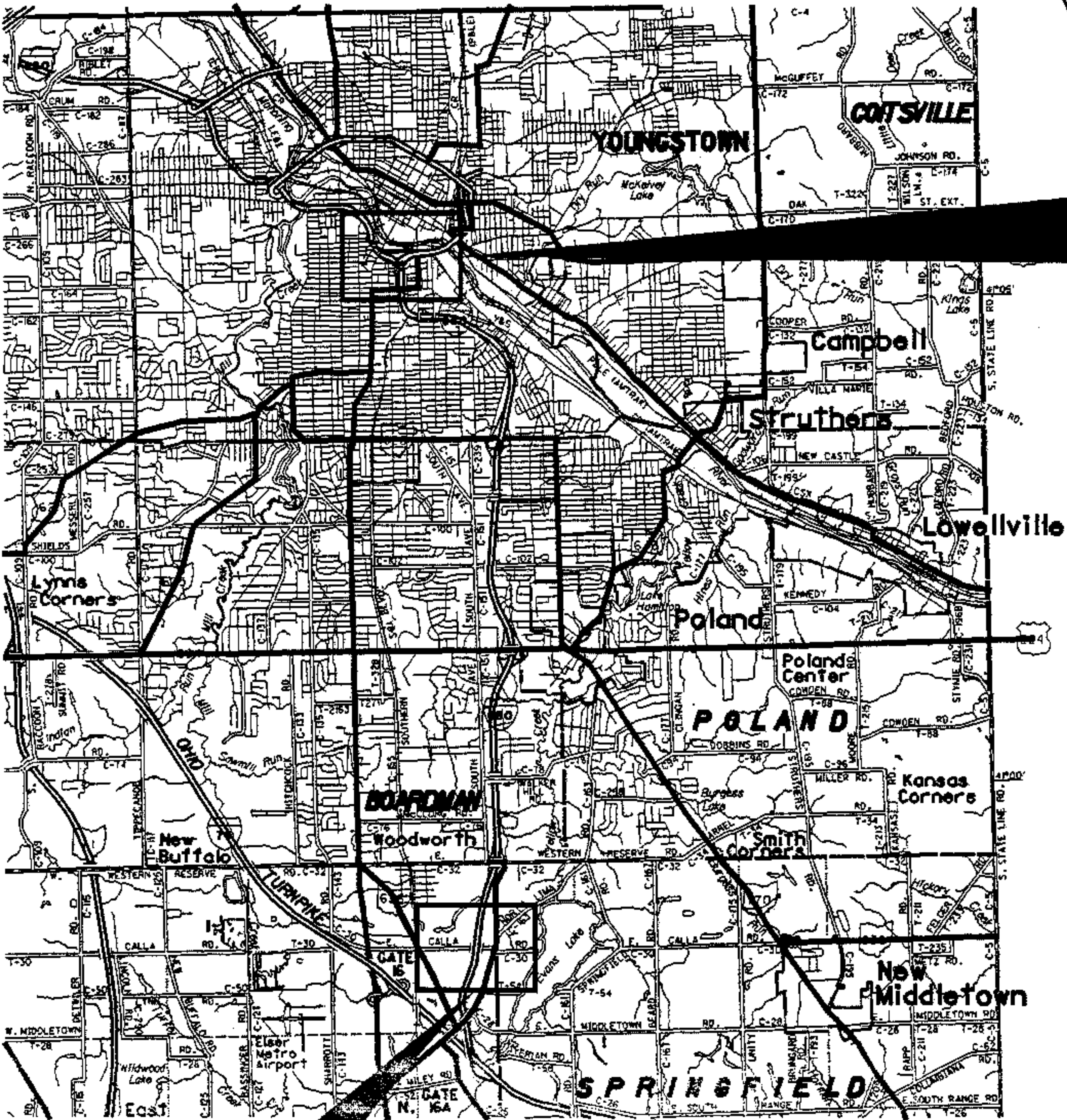


xdietric@D04CD039 - titlepg.m - Wednesday May 05 1999 10:39:41 AM EDT

OHIO DEPARTMENT OF TRANSPORTATION

PLAN NO.

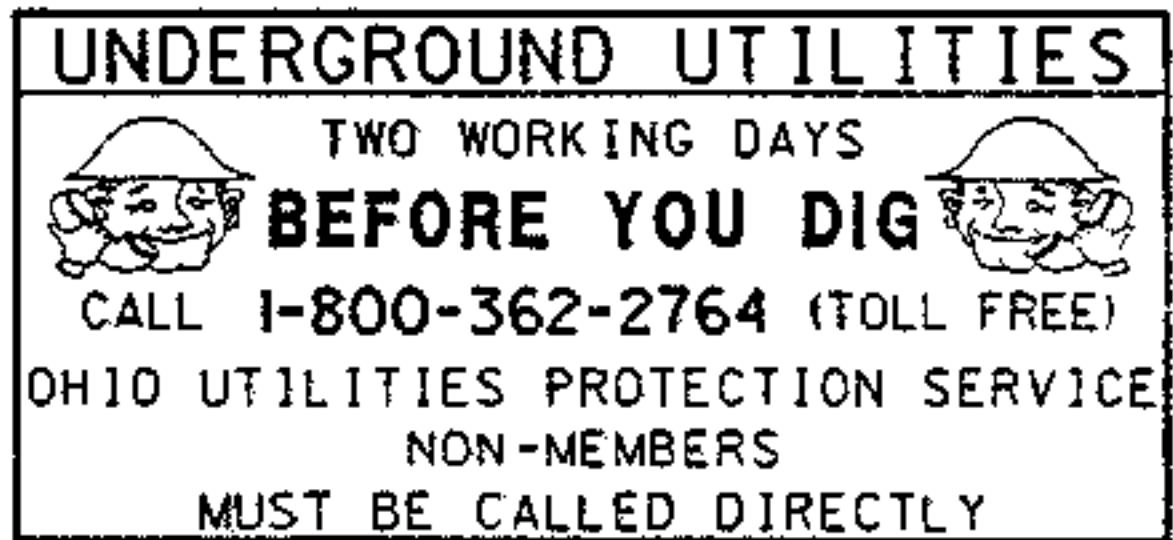
LOCATION MAP



MAH-680-0587
MAH-680-0594
MAH-680-0637

INDEX OF SHEETS:

TITLE SHEET 1
PROJECT LOCATION MAP 2
GENERAL SUMMARY 3,4
BRIDGE REPAIR NOTES 5,6
MAINTENANCE OF TRAFFIC 7-9
REPAIR DETAILS 10-13



PLAN PREPARED BY:
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DISTRICT 4 - PRODUCTION
STRUCTURES SECTION

BRIDGE PAINTING

BRIDGE NO.	ROUTE OR ROAD	OVER	CITY	TOWNSHIP
MAH-680-0587	RIDGE AVE.	680	YOUNGSTOWN	
MAH-680-0594	WOODLAND AVE.	680	YOUNGSTOWN	
MAH-680-0637	WAYNE-PYATT ST.	680	YOUNGSTOWN	
MAH-680-1541L	680	E. CALLA RD.		BEAVER
MAH-680-1541R	680	E. CALLA RD.		BEAVER

1997 SPECIFICATIONS

The standard specifications of the State of Ohio, Department of Transportation, including changes and supplemental specifications listed in the proposal shall govern this improvement.

I hereby approve these plans and declare that the making of this improvement will not require the closing to traffic of the highway and that provisions for the maintenance and safety will be as set forth on plans and estimates.

Approved Daniel R. Dwyer
Date 5-13-99 District Deputy Director of
Transportation

Approved Gordon Proctor
Date 6-1-99 Director, Department of
Transportation

MAH-680-1541L
MAH-680-1541R

STANDARD DRAWINGS		STANDARD DRAWINGS		SUPPLEMENTAL SPECIFICATIONS		SUPPLEMENTAL SPECIFICATIONS		ENGINEER'S SEAL
MT-35.10M	1-30-95	MT-98.14M	6-24-93	806	9-9-97			 SIGNED: <u>Dennis L. Gonano</u> DATE: <u>5/6/99</u>
MT-35.11M	1-30-95	MT-98.17M	4-25-94	815	5-30-96			
MT-95.30M	4-25-94	MT-105.10M	4-25-95	843	5-5-98			
MT-96.11M	1-30-95	MT-105.11M	4-25-94	910	7-28-98			
MT-96.20M	1-30-95	TC-41.20M	7-1-94					
MT-96.25M	1-30-95	TC-42.20M	3-31-94					
MT-97.10M	4-25-94	TC-52.10M	7-29-94					
MT-98.12M	6-24-93	TC-52.20M	7-29-94					
MT-98.13M	6-24-93							

MAH-680-4.14
990619

08-18-99
DIST. 04
PID # 19967

FEDERAL PROJECT NO.
TE21-6990(637)

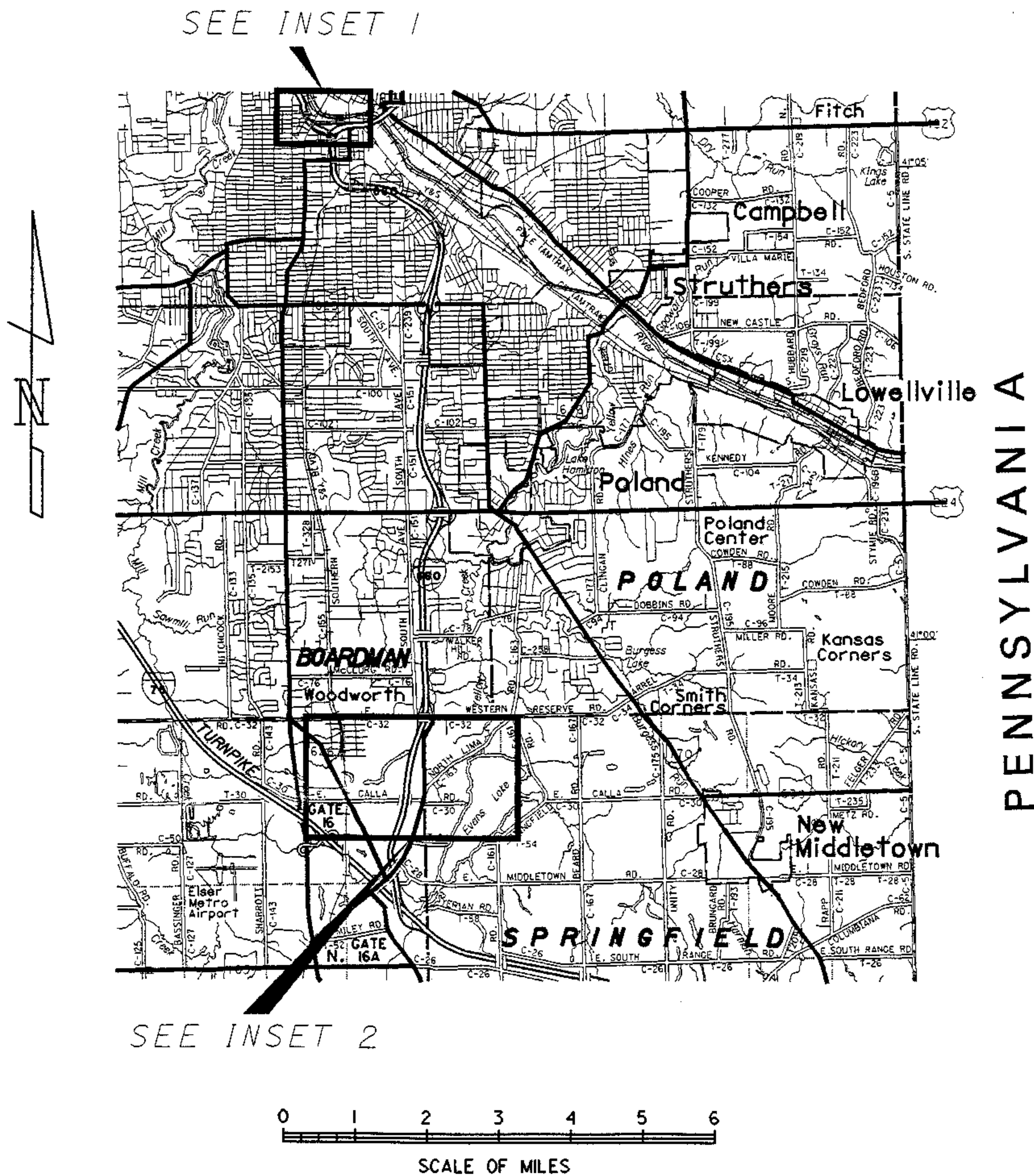
PID NO.
19967

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT

MAH-680-04.14

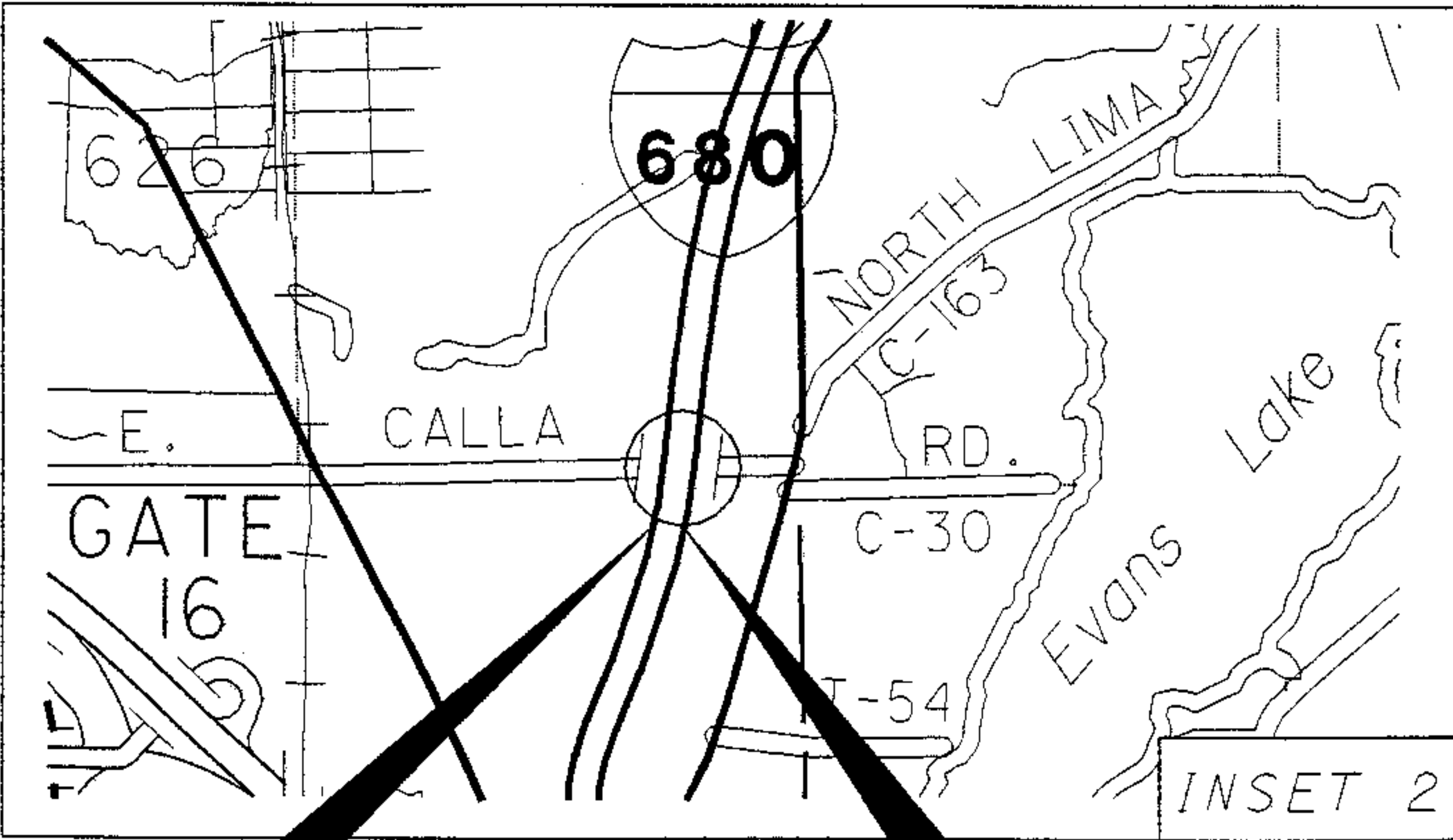
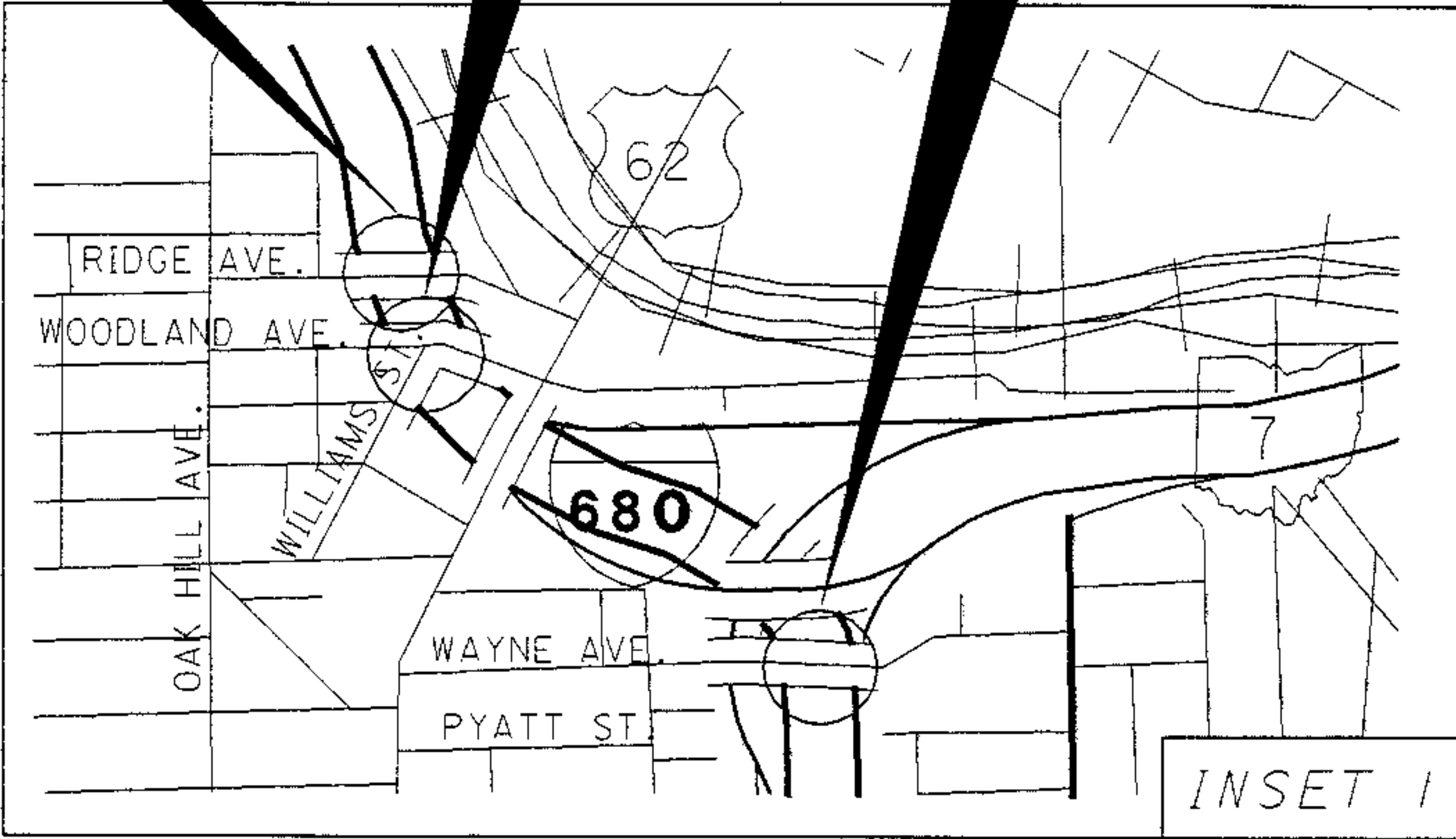
PROJECT LOCATION MAP



MAH-680-0587
SFN: 5007054
TYPE: CONTINUOUS
STEEL BEAM/GIRDER

MAH-680-0594
SFN: 5007089
TYPE: CONTINUOUS
STEEL BEAM/GIRDER

MAH-680-0637
SFN: 5007178
TYPE: CONTINUOUS
STEEL BEAM/GIRDER



MAH-680-1541L
SFN: 5007860
TYPE: CONTINUOUS
STEEL BEAM/GIRDER

MAH-680-1541R
SFN: 5007879
TYPE: CONTINUOUS
STEEL BEAM/GIRDER

DIVIDED HIGHWAY STATE SYSTEM ONLY
INTERSTATE ROUTE
UNITED STATES ROUTE
STATE ROUTE
COUNTY C-25 ROADS
TOWNSHIP T-56 ROADS
STATE BOUNDARY

LEGEND

COUNTY BOUNDARY
TOWNSHIP BOUNDARY
SECTION LINE
CORPORATION BOUNDARY
RAILROAD
MUNICIPAL & SUB DIVISION STREETS
RIVERS

STREAMS
LAKES & RESERVOIRS
UNINCORPORATED COMMUNITY
COMMERCIAL AIRPORTS
CLASS II & III

*480/locmap.dgn

rdietric@DD04CD039 - gentl_sunry.m - Wednesday May 05 1999 10:44:22 AM EDT

														FUNDING	ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	QUANTIFIED	BPD	CHECKED	DWG			
														STRUCTURE: MAH-680-0587 (SFN: 5007054)													
														IM	518	63300	LUMP		STRUCTURE DRAINAGE, MISC. INSPECTION, REPAIR, AND REPLACEMENT OF DAMAGED DOWN SPOUT DRAINAGE SYSTEMS	6							
														IM	SPECIAL	512 67510	1.172	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) *	6JII/2							
														IM	630	02100	14	LIN FT	GROUND MOUNTED SUPPORT, NO. 2 POST	13							
														IM	630	80100	1.40	SQ FT	SIGN, FLAT SHEET	13							
														IM	630	86002	2	EACH	REMOVAL OF GROUND MOUNTED POST AND DISPOSAL	13							
														IM	815	00050	11,598	SQ FT	SURFACE PREPARATION OF EXISTING STEEL, SYSTEM OZEU	16							
														IM	815	00056	11,598	SQ FT	FIELD PAINTING OF EXISTING STEEL, PRIME COAT, SYSTEM OZEU	6							
														IM	815	00060	11,598	SQ FT	FIELD PAINTING OF EXISTING STEEL, INTERMEDIATE COAT, SYSTEM OZEU	6							
														IM	815	00066	11,598	SQ FT	FIELD PAINTING OF EXISTING STEEL, FINISH COAT, SYSTEM OZEU	6							
														IM	815	00504	48	MAN HOUR	GRINDING FINS, TEARS, AND SLVERS								
														IM	815	00508	2,913	LIN FT	GRINDING FLANGE EDGES								
														IM	843	50000	117	SQ FT	PATCHING CONCRETE STRUCTURE WITH TROWELABLE MORTAR	6							
														STRUCTURE: MAH-680-0594 (SFN: 5007089)													
														IM	518	63300	LUMP		STRUCTURE DRAINAGE, MISC. INSPECTION, REPAIR, AND REPLACEMENT OF DAMAGED DOWN SPOUT DRAINAGE SYSTEMS	6							
														IM	SPECIAL	512 67510	1.434	SQ YD	SEALING CONCRETE SURFACES (EPOXY-URETHANE) *	6JII/2							
														IM	630	02100	21	LIN FT	GROUND MOUNTED SUPPORT, NO. 2 POST	13							
														IM	630	80100	2.10	SQ FT	SIGN, FLAT SHEET	13							
														IM	630	86002	3	EACH	REMOVAL OF GROUND MOUNTED POST AND DISPOSAL	13							
														IM	815	00050	14,651	SQ FT	SURFACE PREPARATION OF EXISTING STEEL, SYSTEM OZEU	6							
														IM	815	00056	14,651	SQ FT	FIELD PAINTING OF EXISTING STEEL, PRIME COAT, SYSTEM OZEU	6							
														IM	815	00060	14,651	SQ FT	FIELD PAINTING OF EXISTING STEEL, INTERMEDIATE COAT, SYSTEM OZEU	6							
														IM	815	00066	14,651	SQ FT	FIELD PAINTING OF EXISTING STEEL, FINISH COAT, SYSTEM OZEU	6							
														IM	815	00504	66	MAN HOUR	GRINDING FINS, TEARS, AND SLVERS								
														IM	815	00508	2,885	LIN FT	GRINDING FLANGE EDGES								
														IM	843	50000	143	SQ FT	PATCHING CONCRETE STRUCTURE WITH TROWELABLE MORTAR	6							
														STRUCTURE: MAH-680-0637 (SFN: 5007178)													
														IM	SPECIAL	512 67510	2.085	SQ YD	SEALING CONCRETE SURFACES (EPOXY-URETHANE) *	6JII/2							
														IM	518	12901	16	EACH	SCUPPER LENGTHENING, AS PER PLAN	10							
														IM	630	02100	14	LIN FT	GROUND MOUNTED SUPPORT, NO. 2 POST	13							
														IM	630	80100	1.40	SQ FT	SIGN, FLAT SHEET	13							
														IM	630	86002	2	EACH	REMOVAL OF GROUND MOUNTED POST AND DISPOSAL	13							
														IM	815	00050	22,137	SQ FT	SURFACE PREPARATION OF EXISTING STEEL, SYSTEM OZEU	6							
														IM	815	00056	22,137	SQ FT	FIELD PAINTING OF EXISTING STEEL, PRIME COAT, SYSTEM OZEU	6							
														IM	815	00060	22,137	SQ FT	FIELD PAINTING OF EXISTING STEEL, INTERMEDIATE COAT, SYSTEM OZEU	6							
														IM	815	00066	22,137	SQ FT	FIELD PAINTING OF EXISTING STEEL, FINISH COAT, SYSTEM OZEU	6							
														IM	815	00504	102	MAN HOUR	GRINDING FINS, TEARS, AND SLVERS								
														IM	815	00508	2,040	LIN FT	GRINDING FLANGE EDGES								
														IM	843	50000	208	SQ FT	PATCHING CONCRETE STRUCTURE WITH TROWELABLE MORTAR	6							
														STRUCTURE: MAH-680-1541L (SFN: 5007860)													
															SPECIAL	512 67510	499	SQ YD	SEALING CONCRETE SURFACES (EPOXY-URETHANE) *	6JII/2							
															518	12901	5	EACH	SCUPPER LENGTHENING, AS PER PLAN	10							
														IM	630	02100	7	LIN FT	GROUND MOUNTED SUPPORT, NO. 2 POST	13							
														IM	630	80100	0.70	SQ FT	SIGN, FLAT SHEET	13							
														IM	630	86002	1	EACH	REMOVAL OF GROUND MOUNTED POST AND DISPOSAL	13							
														IM													
															815	00050	6,764	SQ FT	SURFACE PREPARATION OF EXISTING STEEL, SYSTEM OZEU	6							
														IM	815	00056	6,764	SQ FT	FIELD PAINTING OF EXISTING STEEL, PRIME COAT, SYSTEM OZEU	6							
														IM	815	00060	6,764	SQ FT	FIELD PAINTING OF EXISTING STEEL, INTERMEDIATE COAT, SYSTEM OZEU	6							
														IM	815	00066	6,764	SQ FT	FIELD PAINTING OF EXISTING STEEL, FINISH COAT, SYSTEM OZEU	6							
														IM	815	00504	38	MAN HOUR	GRINDING FINS, TEARS, AND SLVERS								
														IM	815	00508	580	LIN FT	GRINDING FLANGE EDGES								
														IM	843	50000	50	SQ FT	PATCHING CONCRETE STRUCTURE WITH TROWELABLE MORTAR	6							
#854IGSM.DGN																								* SEE PROPOSAL NOTE			
																								3 13			

dietric@D04CD039 - genrl_sunny.m - Wednesday May 05 1999 10:44:53 AM EDT

														FUNDING	ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
														STRUCTURE: MAH-680-1541R (SFN: 5007879)						
														IM	SPECIAL	512 67510	500	SO YD	SEALING CONCRETE SURFACES (EPOXY-URETHANE) *	6/J1/2
														IM	518	12901	6	EACH	SCUPPER LENGTHENING, AS PER PLAN	10
														IM	630	02100	7	LIN FT	GROUND MOUNTED SUPPORT, NO. 2 POST	13
														IM	630	80100	070	SO FT	SIGN, FLAT SHEET	13
														IM	630	86002	1	EACH	REMOVAL OF GROUND MOUNTED POST AND DISPOSAL	13
														IM	815	00050	6,769	SO FT	SURFACE PREPARATION OF EXISTING STEEL, SYSTEM OZEU	6
														IM	815	00056	6,769	SO FT	FIELD PAINTING OF EXISTING STEEL PRIME COAT, SYSTEM OZEU	6
														IM	815	00060	6,769	SO FT	FIELD PAINTING OF EXISTING STEEL INTERMEDIATE COAT, SYSTEM OZEU	6
														IM	815	00066	6,769	SO FT	FIELD PAINTING OF EXISTING STEEL FINISH COAT, SYSTEM OZEU	6
														IM	815	00504	38	MAN HOUR	GRINDING FINS, TEARS, AND SLIVERS	
														IM	815	00508	580	LIN FT	GRINDING FLANGE EDGES	
														IM	843	50000	50	SO FT	PATCHING CONCRETE STRUCTURE WITH TROWELABLE MORTAR	6
														MAINTENANCE OF TRAFFIC						
															614	11100	40	HOURS	LAW ENFORCEMENT OFFICER WITH PATROL CAR	8
															614	13000	10	CU YD	BITUMINOUS CONCRETE FOR MAINTAINING TRAFFIC	7
															614	13300	30	EACH	BARRIER REFLECTORS, TYPE B	7
															614	13350	30	EACH	OBJECT MARKERS	7
															614	18601	6	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	8
															622	40020	700	LIN FT	PORTABLE CONCRETE BARRIER, 32'	7
															614	11000	LUMP		MAINTAINING TRAFFIC	7
															624	10000	LUMP		MOBILIZATION	
															806	16010	5	MONTH	FIELD OFFICE, TYPE B	

BRIDGE REPAIR TREATMENT

dietric@D04CD039 - b.d.m - Wednesday May 05 1999 10:46:31 AM EDT

BRIDGE DECK DATA

	COUNTY,ROUTE AND BRIDGE NO. (ENGLISH BRIDGE NOS.)	SFN	LENGTH (BRIDGE UNITS)	WIDTH TOE TO TOE OF PARAPET	BRIDGE DECK AREA	BIB SCUPPER LENGTHENING, AS PER PLAN	BIS SURFACE PREPARATION OF EXISTING STEEL SYSTEM OZEU	BIS FIELD PAINTING OF EXISTING STEEL PRIME COAT, SYSTEM OZEU	BIS FIELD PAINTING OF EXISTING STEEL INTERMEDIATE COAT, SYSTEM OZEU	BIS SURFACE PREPARATION OF EXISTING STEEL FINISH COAT, SYSTEM OZEU	BIS GRINDING FINS, TEARS, AND SLIVERS	BIS GRINDING FLANGE EDGES	B43 PATCHING CONCRETE STRUCTURE WITH TROWELABLE MORTAR
			FEET	FEET	SQ YD	EACH	SQ FT	SQ FT	SQ FT	SQ FT	MAN HOUR	LN FT	SQ FT
	MAH-680-0587	5007054	159.50	40.67	720.67		11,598	11,598	11,598	11,598	48	2,913	117
	MAH-680-0594	5007089	147.25	60.67	992.63		14,651	14,651	14,651	14,651	66	2,885	143
	MAH-680-0637	5007178	408.08	37.75	1,711.67	16	22,137	22,137	22,137	22,137	102	2,040	208
	MAH-680-1541L	5007860	123.50	42	5,187	5	6,764	6,764	6,764	6,764	38	580	50
	MAH-680-1541R	5007879	123.50	42	5,187	6	6,769	6,769	6,769	6,769	38	580	50
	TOTAL					27	61,919	61,919	61,919	61,919	292	8,998	568

NOTE: ALL INDIVIDUAL BRIDGE QUANTITIES SHOWN ON THIS SHEET ARE CARRIED TO THE GENERAL SUMMARY.

1854/BDT.DGN

BRIDGE REPAIR TREATMENT

MAH-680-04.14

$$\frac{5}{13}$$

0770100
STRUCTURE FILE NUMBER

DATE	REVIS
CHECKED	DATE

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DISTRICT 4 - PRODUCTION

0770100
STRUCTURE FILE NUMBER

DATE	REVIS
CHECKED	DATE

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DISTRICT 4 - PRODUCTION

hietic@D04CD039 - genl_notes.m - Wednesday May 05 1999 10:50:09 AM EDT

BRIDGE REPAIR NOTES

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURES ARE TAKEN FROM PLANS AND/OR FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURES AND THE PROPOSED WORK, BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO THE C.M.S. SECTIONS 102.05, 105.02, AND 513.02. CONTRACTOR BID PRICES SHALL BE BASED UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PRE-BID 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 AND SUBSTANTIATED BY O.D.O.T. PROJECT PERSONNEL. FOR MORE INFORMATION, THE ORIGINAL CONSTRUCTION DRAWINGS MAY BE EXAMINED IN THE DISTRICT FOUR (4) OFFICE OF THE OHIO DEPARTMENT OF TRANSPORTATION, 705 OAKWOOD ST., RAVENNA, OHIO AND THE CENTRAL OFFICE, 1980 W. BROAD ST., COLUMBUS, OHIO, 43223. ANY CORRESPONDENCE SENT TO CENTRAL OFFICE SHOULD BE SENT TO THE OHIO DEPARTMENT OF TRANSPORTATION, P.O. BOX 0899, COLUMBUS, OHIO, 43216-0899.

CONTINGENCY QUANTITIES

THE CONTRACTOR WILL NOT ORDER MATERIALS OR PERFORM WORK LISTED IN THE GENERAL SUMMARY FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE PROJECT ENGINEER/SUPERVISOR" UNLESS AUTHORIZED BY THE PROJECT ENGINEER/SUPERVISOR. (THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE ENGINEER'S DISCRETION SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.)

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

THIS ITEM SHALL INCLUDE THE SEALING OF THE EXPOSED CONCRETE SURFACES DETAILED ON SHEET NOS. 11 AND 12. PAYMENT SHALL BE MADE AT THE UNIT BID PRICE FOR ITEM SPECIAL - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE).

ITEM 518 - STRUCTURE DRAINAGE, MISC.: INSPECTION, REPAIR, AND REPLACEMENT OF DAMAGED DOWNSPOUT DRAINAGE SYSTEMS

THE PURPOSE OF THIS ITEM IS TO INSPECT, REPAIR, OR REPLACE ALL DAMAGED OR DETERIORATED PORTIONS OF THE DOWNSPOUT DRAINAGE SYSTEM INCLUDING, BUT NOT LIMITED TO, ALL SPOUTING PIPES AND FITTINGS, BRACKETS, MOUNTING HARDWARE, AND CONCRETE SURFACE DETERIORATION AROUND MOUNTINGS. THE CONTRACTOR SHALL INSPECT EACH DRAIN WITH THE PROJECT ENGINEER TO DETERMINE THE NECESSARY REPAIRS OR REPLACEMENTS. ALL WORK SHALL BE COMPLETED PRIOR TO THE START OF PAINTING PREPARATIONS AND TO THE SATISFACTION OF THE PROJECT ENGINEER/SUPERVISOR.

ITEM 806 - FIELD OFFICE, TYPE B

A FIELD OFFICE, TYPE B, SHALL BE PROVIDED BY THE CONTRACTOR. THE OFFICE WILL BE PROVIDED WITH POTABLE HOT AND COLD WATER. THE OFFICE SHALL ALSO HAVE NEAT, SANITARY, ENCLOSED TOILET ACCOMMODATIONS; ASSOCIATED LAVATORY AND SANITARY SUPPLIES SHALL BE FURNISHED.

ITEM 815 - SURFACE PREPARATION OF EXISTING STEEL, SYSTEM OZEU

ITEM 815 - FIELD PAINTING OF EXISTING STEEL, PRIME COAT, SYSTEM OZEU

ITEM 815 - FIELD PAINTING OF EXISTING STEEL, INTERMEDIATE COAT, SYSTEM OZEU

ITEM 815 - FIELD PAINTING OF EXISTING STEEL, FINISH COAT, SYSTEM OZEU

THE URETHANE FINISH COAT ON ALL BRIDGES PAINTED ON THIS PROJECT SHALL BE BLUE FS-595A-15450.

THE SURFACE AREA HAS BEEN INCREASED BY A PERCENTAGE DESCRIBED BELOW TO ACCOUNT FOR ALL INCIDENTALS SUCH AS: CROSS FRAMES, GUSSET PLATES, BOLTS, MOMENT PLATES, BEARING ASSEMBLIES, EXPANSION JOINTS, SCUPPERS, DOWNSPOUT PIPING SYSTEMS, CURB PLATES, ETC.

BRIDGE NO.	STRUCTURAL FILE NO.	PERCENTAGE
MAH-680-0587	5007054	16%
MAH-680-0594	5007089	25%
MAH-680-0637	5007178	20%
MAH-680-1541L	5007860	18%
MAH-680-1541R	5007879	18%

SOLVENT CLEANING

PRIOR TO ABRASIVE BLASTING, THE SURFACES TO BE PAINTED ON ALL STRUCTURES SHALL BE SOLVENT CLEANED TO REMOVE ALL TRACES OF ASPHALTIC CEMENT, OIL, GREASE, DIESEL FUEL DEPOSITS, AND OTHER SOLUBLE CONTAMINANTS AS DIRECTED BY THE PROJECT ENGINEER/SUPERVISOR.

ITEM 843 - PATCHING CONCRETE STRUCTURE WITH TROWELABLE MORTAR

A QUANTITY HAS BEEN SET UP FOR EACH STRUCTURE ON THIS PROJECT FOR THE PURPOSE OF MINOR PATCHING OF WINGWALLS, ABUTMENTS, ETC. AT THE DISCRETION OF THE PROJECT ENGINEER/SUPERVISOR.

BRIDGE REPAIR NOTES

MAH-680-04.14

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13

GENERAL NOTES

RELATIONSHIP BAR CHART SCHEDULE

- I. The Contractor shall prepare and submit a bar chart calendar day progress schedule for review and acceptance by the Construction Engineer prior to the preconstruction meeting or at a time agreed to by the Engineer;

The schedule shall be computer generated. The electronic file shall be submitted to the Engineer in addition to the hard copy at the pre-construction conference or sooner. The software used shall be compatible with Prima Vera Version 2.0 or newer. All schedules must include the following Administrative Identifier Information:

1. Project Number
2. County
3. Route Number
4. FHWA Number
5. PID Number
6. Contract Number
7. Date of Contract
8. Completion Date
9. Contractor's Name
10. Contractor's Signature (must be dated)
11. ODOT Acceptance Signature (must be dated)

It is the Contractor's responsibility to select the items to be scheduled and the sequence in which they are to be performed consistent with contract requirements. As a minimum, the bar chart progress schedule shall provide a listing of project activities that will indicate the following information:

1. Scope of Work
2. Anticipated Activity Start Date
3. Anticipated Activity Finish Date
4. Work Item Duration
5. Work Item Relationships
6. Maintenance of Traffic
7. Interim Completion Dates (if any) defined in the Contract Documents

The progress schedule requirements are discussed in further detail as follows:

A. Scope of Work

The Contractor shall list all major items of work required to complete the scope of the project. The major items of work shall be broken down into components to give further details to the scope of work included in each major item. Work items shall be sequenced relative to the traffic control plan in effect during the prosecution of the work.

B. Anticipated Activity Start Date

The date the Contractor intends to start a particular work item.

C. Anticipated Activity Finish Date

The date the Contractor expects to fully complete a work item.

D. Work Item Duration

The total time from the start date to the finish date of the work item.

E. Work Item Relationship

The relationship will be indicated between each work item on the project bar chart to indicate the interdependence of work items. Arrow diagrams will be utilized to indicate those work items that can commence prior to completion of the preceding work item, as well as to indicate work items which must be completed prior to the start of a successor work item.

F. Critical Path

The Contractor shall indicate the critical path. In addition to the requirement for a Relationship Bar Chart described in Section I above, the Contractor shall, at the request of the Department, provide a projection of anticipated percentage completion for defined categories of work (i.e., Roadway, Pavement, Erosion Control, etc.) on a form provided by the Department.

- II. This paragraph takes precedence over Section 108.03 of the Construction and Material Specification.

The baseline schedule showing actual progress shall be submitted monthly. Each submittal of the project progress schedule will indicate the actual start/finish dates of all work items completed. If the Engineer determines that work has fallen behind schedule more than fifteen (15) calendar days, the Contractor shall submit a revised schedule within seven (7) calendar days of written request by the Engineer indicating how the Contractor proposes to recover the project to meet the original completion dates. No payments will be made to the Contractor during those periods where the Contractor is delinquent in the submission of a revised progress schedule. If for any reason the prosecution of the work is suspended, the Contractor shall notify the Engineer a minimum of 24 hours in advance of resuming operations. The project progress schedule will be utilized by the Engineer to make determinations of project time extensions and evaluate claims for adjustments in compensation which may be submitted by the Contractor.

GENERAL NOTES

MAH-680-04.14

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13

DESIGN AGENCY
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DISTRICT 4 - PRODUCTION
STRUCTURES SECTION

DATE
4-99
REVIEWED
DLG
STRUCTURE FILE NUMBER

DRAWN
BPD
DESIGNED
BPD
CHECKED
DLG

greene@D04CD109 - 19967mm.m - Monday May 03 1999 11:02.. AM EDT

\\user\skgreene\mah\19967mm.dgn 03-MAY-1999 9:42AM kgr:eeene

MAINTENANCE OF TRAFFIC

THIS ITEM SHALL CONSIST OF MAINTENANCE OF TRAFFIC ON EXISTING ROADWAYS AND RAMPS IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION, LATEST REVISION, THE SPECIFICATIONS AND THE FOLLOWING:

A MINIMUM OF ONE ELEVEN FOOT LANE IN EACH DIRECTION SHALL BE MAINTAINED ON THE EXISTING PAVEMENT DURING CONSTRUCTION OF THE WORK.

RAMP TRAFFIC SHALL BE MAINTAINED AT ALL TIMES.

THE CONTRACTOR SHALL NOTIFY THE DISTRICT OFFICE (330) 297-0801 EXT 209 OR 211, EIGHTEEN (18) DAYS PRIOR TO THE BEGINNING OF WORK.

CONES SHALL NOT BE ACCEPTABLE TRAFFIC CONTROL DEVICES FOR LANE RESTRICTIONS OR LANE REDUCTIONS THAT ARE IN OPERATION ONE-HALF HOUR AFTER SUNSET OR ONE HALF-HOUR BEFORE SUNRISE. ALL NIGHTTIME LANE RESTRICTIONS SHALL REQUIRE DRUMS OR BARRICADES AT A MAXIMUM SPACING OF FIFTY (50) FEET.

LANE RESTRICTIONS OR LANE REDUCTIONS SHALL NOT BE PERMITTED AFTER NORMAL WORKING HOURS. NORMAL WORKING HOURS SHALL BE THOSE HOURS DURING WHICH THE CONTRACTOR HAS A FULL COMPLEMENT OF EMPLOYEES AND EQUIPMENT ACTIVELY CONSTRUCTING THE WORK.

THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN AND SUBSEQUENTLY REMOVE ALL FLAGS, BARRICADES, SIGNS, SIGN SUPPORTS AND FURNISH AND MAINTAIN ALL FLAGGERS, WATCHERS AND INCIDENTALS RELATED THERETO.

UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BE PERMITTED TO HAVE WORK ZONES THAT ALTERNATELY CLOSE BOTH THE PASSING LANE AND THE DRIVING LANE.

ALL EXISTING LANES ON I-680 SHALL BE OPEN TO TRAFFIC DURING THE HOURS OF 6 AM TO 6 PM MONDAY THROUGH FRIDAY.

LIQUIDATED DAMAGES IN THE AMOUNT OF \$1000 PER HOUR SHALL BE ASSESSED FOR EACH HOUR, OR PORTION THEREOF, THAT ANY EXISTING LANE REMAINS CLOSED BEYOND THE SPECIFIED LIMITS.

THE USE OF MAINLINE I-680 SHOULDERS TO MAINTAIN TRAFFIC IS PROHIBITED. SHOULD ANY EXISTING SHOULDER AREAS BECOME DAMAGED OR DESTROYED DUE TO THE CONTRACTOR'S NEGLIGENCE OR FAILURE TO PROVIDE ADEQUATE SIGNS, BARRICADES, CONES, FLAGGERS OR OTHER TRAFFIC CONTROL DEVICES, THE RESTORATION OF THE SHOULDERS WILL BE AT THE CONTRACTORS EXPENSE, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

AN ESTIMATED QUANTITY OF 700 LIN FT OF ITEM 622 - PORTABLE CONCRETE BARRIER, 32", HAS BEEN PROVIDED FOR USE ALONG CALLA RD ON THIS PROJECT. THE BARRIER SHALL BE PLACED AS SHOWN ON SCD MT-96.IIM WHEN WORK IS BEING DONE ON THE BRIDGE.

INITIAL SIGNAL TIMINGS: (ASSUMES 500 FT BETWEEN STOP LINES)

Ø 1 G	Ø 1 Y	Ø 1 R	Ø 2 G	Ø 2 Y	Ø 2 R
16	4	10	16	4	10

ITEM 614 - BARRIER REFLECTORS AND OBJECT MARKERS

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE CONCRETE BARRIER USED FOR TRAFFIC CONTROL. BARRIER REFLECTORS, OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO PROPOSAL NOTE 642-96 AND ITEM 626 EXCEPT THAT THE SPACING SHALL BE 25 FEET. AN ESTIMATED QUANTITY OF 30 EACH OF ITEM 614 - BARRIER REFLECTOR, TYPE B, AND 30 EACH OF ITEM 614 - OBJECT MARKERS, HAVE BEEN PROVIDED AND CARRIED TO THE GENERAL SUMMARY.

ITEM 614 - BITUMINOUS CONCRETE FOR MAINTAINING TRAFFIC

A QUANTITY OF 10 CU. YDS. OF ITEM 614 - BITUMINOUS CONCRETE FOR MAINTAINING TRAFFIC, SHALL BE PROVIDED FOR USE IN MAINTAINING PAVEMENT, SHOULDERS AND OTHER LOCATIONS DURING PROSECUTION OF THE WORK, AS DIRECTED BY THE ENGINEER. (SS 921 OR HPM MAY BE USED AS ALTERNATE MATERIAL WHEN 448 IS NOT AVAILABLE).

CONTRACTOR'S EQUIPMENT: OPERATION AND STORAGE

THE CONTRACTOR'S EQUIPMENT SHALL BE OPERATED IN THE DIRECTION OF TRAFFIC. A QUALIFIED FLAGGER SHALL BE EMPLOYED WHERE THE CONTRACTOR'S EQUIPMENT MUST MERGE WITH THE TRAFFIC STREAM. THE CONTRACTOR'S EQUIPMENT SHALL BE EQUIPPED WITH AT LEAST ONE AMBER FLASHING LIGHT. EQUIPMENT MAY BE PARKED IN AREAS ALONG THE HIGHWAY WHEN OPERATIONS ARE SCHEDULED TO CONTINUE WITHIN THE NEXT WORKDAY. OTHERWISE, THE EQUIPMENT SHALL BE STORED AT A STORAGE AREA OUTSIDE THE L/A, THE LOCATION OF WHICH SHALL HAVE PRIOR APPROVAL OF THE ENGINEER. WHEN PARKING ALONG THE HIGHWAY THE EQUIPMENT SHALL BE PLACED AND DELINEATED AS PER 614.03. ADEQUATE BARRICADES AND LIGHTS SHALL BE PLACED ON THE PAVEMENT SIDE OF THE EQUIPMENT TO IDENTIFY THE LIMITS OF THE EQUIPMENT. ALL OTHER EQUIPMENT, INCLUDING PRIVATE VEHICLES, SHALL BE STORED AT THE APPROVED CONTRACTOR'S STORAGE AREA. NO EQUIPMENT SHALL BE PARKED ON PRIVATE PROPERTY UNLESS PRIOR APPROVAL OF THE OWNER AND THE PROJECT ENGINEER/SUPERVISOR HAS BEEN GRANTED.

TRAFFIC CONTROL INSPECTOR

THE CONTRACTOR SHALL DESIGNATE AN INDIVIDUAL, OTHER THAN THE SUPERINTENDENT AND SUBJECT TO THE APPROVAL OF THE ENGINEER, TO CONTINUOUSLY INSPECT ALL TRAFFIC CONTROL DEVICES WHENEVER CONSTRUCTION WORK IS BEING PERFORMED WITHIN THE WORK LIMITS OF THE PROJECT. THE DESIGNATED INDIVIDUAL SHALL ALSO INSPECT ALL TRAFFIC CONTROL DEVICES AT THE BEGINNING AND AT THE END OF EACH WORK DAY. THE DESIGNATED INDIVIDUAL, OR A QUALIFIED REPRESENTATIVE, SHALL ALSO BE AVAILABLE ON AN AROUND-THE-CLOCK BASIS TO REPAIR AND/OR REPLACE DAMAGED OR MISSING TRAFFIC CONTROL DEVICES. THESE INDIVIDUALS SHALL BE EQUIPPED WITH CELLULAR PHONES AND THEIR NAMES AND TELEPHONE NUMBERS SHALL BE GIVEN TO THE PROJECT ENGINEER AT THE PRE-CONSTRUCTION MEETING. THE DESIGNATED INDIVIDUAL MAY HAVE OTHER CONSTRUCTION RELATED DUTIES AS LONG AS IMMEDIATE ATTENTION IS GIVEN TO TRAFFIC CONTROL. PAYMENT FOR THE SERVICES OF THE TRAFFIC CONTROL INSPECTOR SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR 614 - MAINTAINING TRAFFIC.

ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, TWO (2) DIESEL POWERED CHANGEABLE MESSAGE SIGNS, ON SITE, FOR THE DURATION OF THE PROJECT. EACH SIGN SHALL BE EITHER A WINK-O-MATIC GENERATION 3, 4, 6, 10 OR 12, AMERICAN SIGNAL COMPANY CMS-T3000 OR AN ADDCO DIGI-DOT SIGN OR A TELE-SPOT SENTINAL SIGN OR AN APPROVED EQUAL.

EACH SIGN SHALL BE TRAILER MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM TO DIM THE SIGN DURING DARKNESS AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY.

PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE THE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS WILL BE OFF, FACING AWAY FROM ALL TRAFFIC AND SHALL DISPLAY ONE OR MORE HIGH INTENSITY YELLOW REFLECTIVE SHEETING SURFACES OF 9-INCH BY 15-INCH MINIMUM SIZE FACING TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT AND TO REVISE SIGN MESSAGES, IF NECESSARY.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PREPROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION MEETING. THE SIGN SHALL HAVE TWO DIFFERENT MEMORIES [PROM AND RAM] AND CAPABILITY TO STORE UP TO 99 MESSAGES IN EACH MEMORY. SIGN MESSAGES SHALL BE LEGIBLE FROM 650 FT MINIMUM. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. IN ORDER TO CONVEY A MAXIMUM OF INFORMATION AT A SINGLE GLANCE, ONLY THREE LINE PRESENTATION FORMATS WITH A MAXIMUM OF SIX MESSAGE PHASES WILL BE PERMITTED. NORMALLY, ONLY A MAXIMUM OF THREE MESSAGE PHASES SHOULD BE EMPLOYED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST ONCE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DE-ACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF 614.03(C). THE CONTRACTOR SHALL PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC AND THE ENTIRE COST TO CONTROL TRAFFIC ACCRUED BY THE DEPARTMENT WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN cont.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24 HOURS PER DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

THE REQUIREMENT TO FURNISH, INSTALL, MAINTAIN AND REMOVE A PCMS UNIT ON THIS PROJECT SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES AS OUTLINED IN 104.04.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE BID FOR EACH SIGN MONTH OF ITEM 614 PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN AND SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

A QUANTITY OF 6 SIGN-MONTHS OF ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGN HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

LAW ENFORCEMENT OFFICER WITH PATROL CAR

IN ADDITION TO THE REQUIREMENTS OF 614 AND THE CURRENT EDITION, LATEST REVISION OF THE OHIO MANUAL OF UNIFORM TRAFFIC DEVICES (OMUTCD), THE CONTRACTOR SHALL PROVIDE THE SERVICE OF LAW ENFORCEMENT OFFICERS (LEO) WITH AN OFFICIAL PATROL CAR WITH WORKING TOP MOUNTED EMERGENCY FLASHING LIGHTS, AT THE ENGINEER'S REQUEST, FOR THE PURPOSE OF CONTROLLING TRAFFIC FOR THE FOLLOWING TASKS:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS OF PCB, RESETTING DURING A SUBSEQUENT PHASE AND TEAR-DOWN PERIODS.

THE LEO'S ARE CONSIDERED TO BE EMPLOYED BY THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. ALTHOUGH THEY ARE EMPLOYED BY THE CONTRACTOR, THE PROJECT ENGINEER SHALL HAVE CONTROL OVER THEIR PLACEMENT. THE OFFICIAL PATROL CAR SHALL BE A PUBLIC SAFETY VEHICLE AS REQUIRED BY THE OHIO REVISED CODE.

INFORMATION REGARDING ARRANGEMENTS AND PAYMENTS BY THE CONTRACTOR FOR THE LEO MAY BE OBTAINED BY CONTACTING: THE OHIO HIGHWAY PATROL 1970 WEST BROAD STREET, COLUMBUS, OHIO, 43223, TELEPHONE: 614-466-2660. IF AFTER CONTACTING THE OHIO HIGHWAY PATROL, IT IS DETERMINED THAT THEY CANNOT SUPPLY THE LEO, THEN AN AUTHORIZED MUNICIPAL OR COUNTY POLICE OFFICER EQUIPPED WITH A MARKED AND FLASHER-LIGHT EQUIPPED OFFICIAL POLICE OR PATROL CAR SHALL BE PROVIDED.

LEO'S WITH PATROL CAR REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614 LAW ENFORCEMENT OFFICER WITH PATROL CAR. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 614 - LAW ENFORCEMENT OFFICER WITH PATROL CAR 40 HOURS

THE HOURS PAID SHALL INCLUDE MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

IF THE CONTRACTOR WISHES TO UTILIZE LEO'S FOR FLAGGING AND TRAFFIC CONTROL OTHER THAN FOR THAT REQUIRED IN THESE PLANS, HE MAY DO SO AT HIS OWN EXPENSE. PAYMENT FOR THE EXCESS ABOVE THE CONTRACT REQUIREMENTS WILL BE INCLUDED UNDER ITEM 614 MAINTAINING TRAFFIC.

COOPERATION BETWEEN CONTRACTORS

THE CONTRACTOR SHALL BE ADVISED THAT OTHER PROJECTS MAY BE ONGOING IN AREAS IMMEDIATELY ADJACENT TO AND WITHIN THE PROJECT LIMITS OF THIS PROJECT. THE CONTRACTOR SHALL SCHEDULE HIS WORK SO AS TO CAUSE A MINIMUM OF DELAY OR CONFLICT WITH THE OTHER PROJECT(S). IN ACCORDANCE WITH 105.07, THE CONTRACTOR SHALL ARRANGE WITH THE OTHER CONTRACTORS A MUTUALLY ACCEPTABLE WORK SCHEDULE SUBJECT TO THE APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL RECEIVE DAILY APPROVAL FROM THE ENGINEER PRIOR TO COMMENCING ANY OPERATIONS. ANY CONFLICT BETWEEN CONTRACTORS INVOLVING WORK SCHEDULES, WORK AREA OR COOPERATION SHALL BE RESOLVED BY THE ENGINEER. COMPENSATION FOR THE ABOVE COOPERATION SHALL BE INCIDENTAL TO THE VARIOUS PAY ITEMS INCLUDED WITHIN THIS PROJECT.

FLOODLIGHTING

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHT TIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO INSURE THE ADEQUACY OF THE FLOODLIGHT PAVEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR MAINTAINING TRAFFIC.

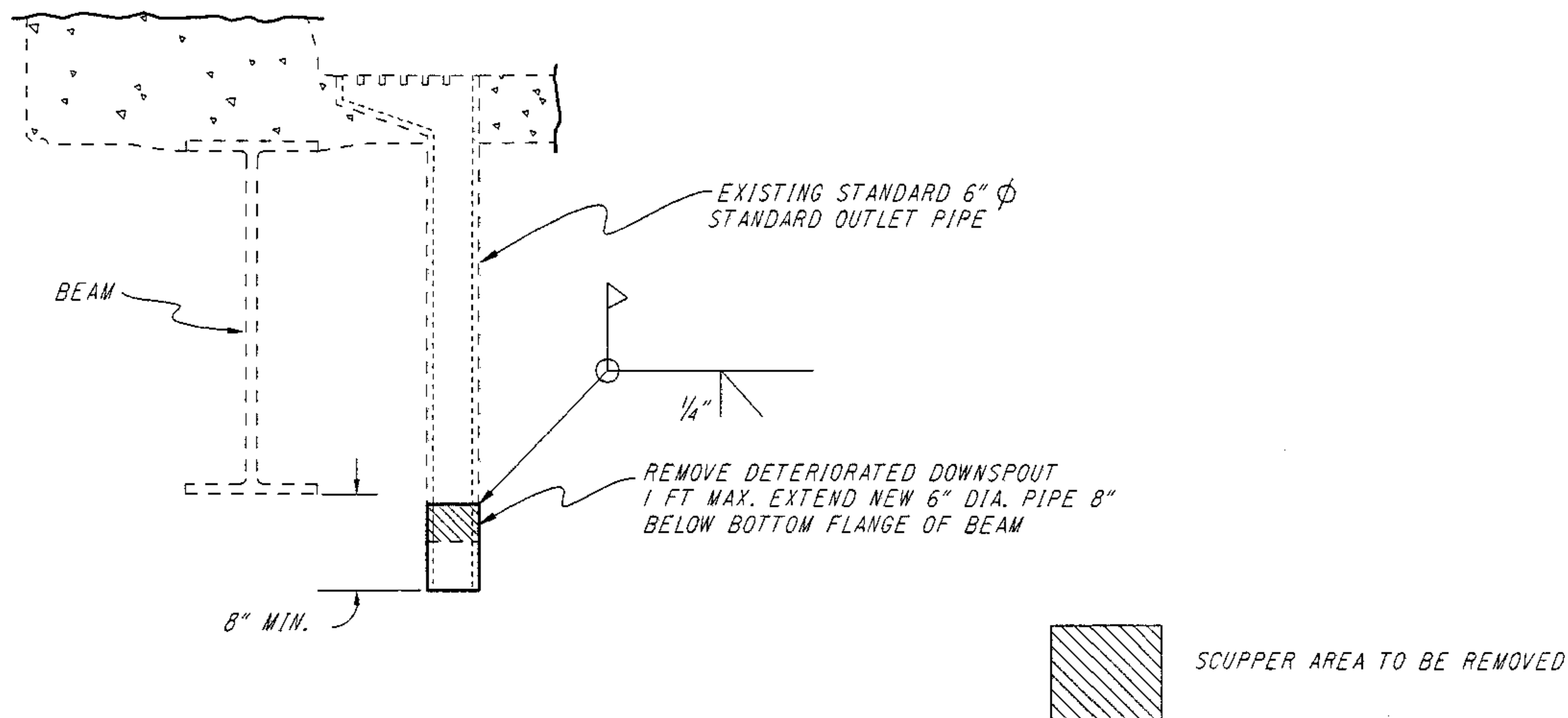
METHOD OF PAYMENT

PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR 614 - MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

ALTERNATE MAINTENANCE OF TRAFFIC PLANS

IF THE CONTRACTOR SO ELECTS, HE MAY SUBMIT ALTERNATE METHODS FOR THE MAINTENANCE OF TRAFFIC, PROVIDED THE INTENT OF THE ABOVE PROVISIONS IS FOLLOWED AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS THEREFROM. NO ALTERNATE PLAN SHALL BE PLACED IN EFFECT UNTIL APPROVAL HAS BEEN GRANTED IN WRITING BY THE ODOT DISTRICT CONSTRUCTION ENGINEER.

SCUPPER LENGTHENING DETAIL



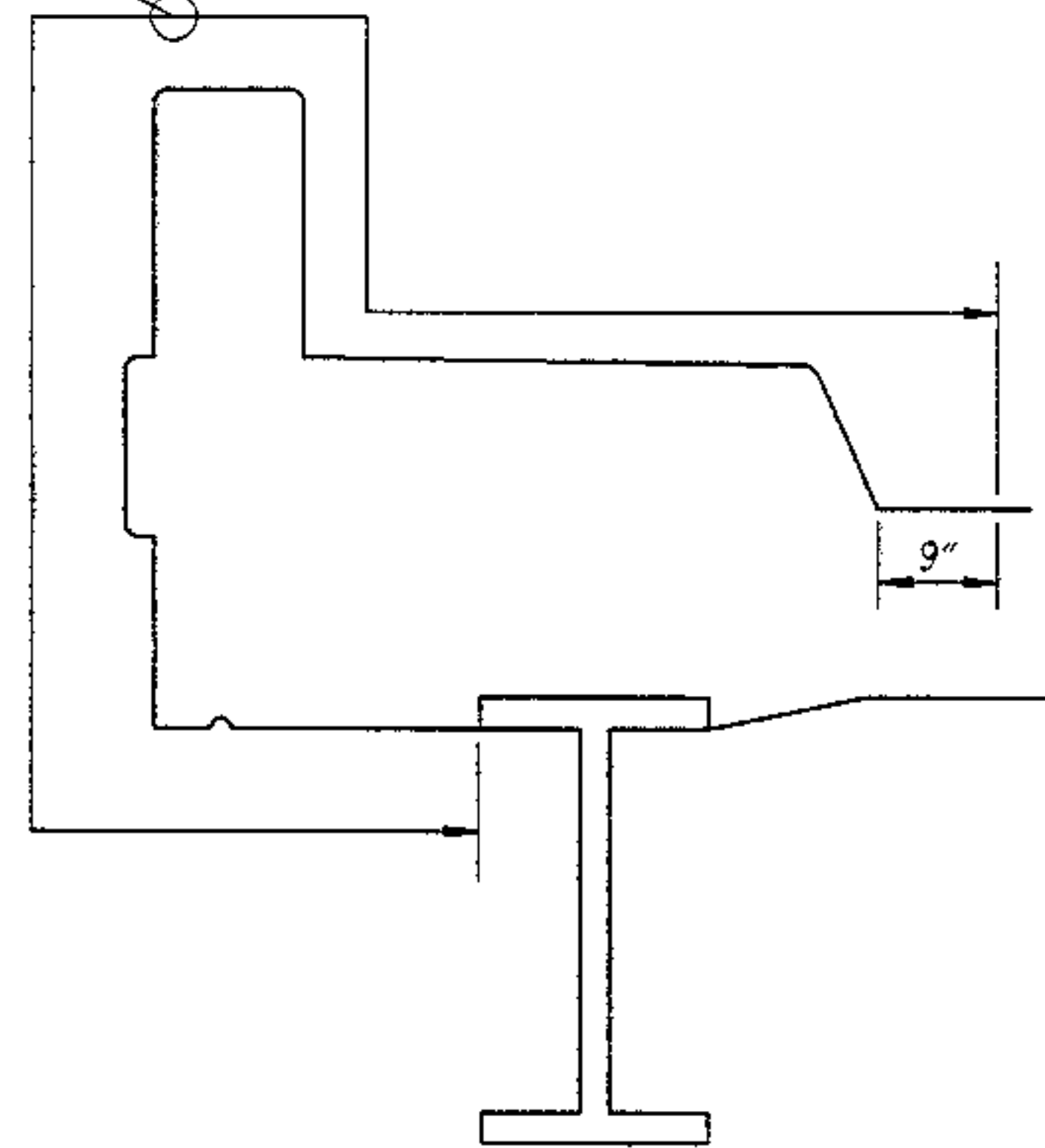
SCUPPER LENGTHENING DETAIL

NTS

- NOTES:
1. THE PIPE EXTENSIONS SHALL BE WELDED IN PLACE AFTER THE EXISTING SURFACES HAVE BEEN ABRASIVE BLASTED TO A SA-1.
 2. ADDITIONAL LENGTH OF SCUPPER PIPE TO BE REPLACED IS TO BE DETERMINED BY THE PROJECT ENGINEER/SUPERVISOR.
 3. ALL NEW SCUPPER EXTENSIONS MUST BE COMPLETE AND IN PLACE BEFORE COMMENCING WITH PAINT OPERATIONS.
 4. IF ADDITIONAL INFORMATION IS REQUIRED, EXPIRED STD. DWG. SD-I-63 IS AVAILABLE UPON REQUEST.

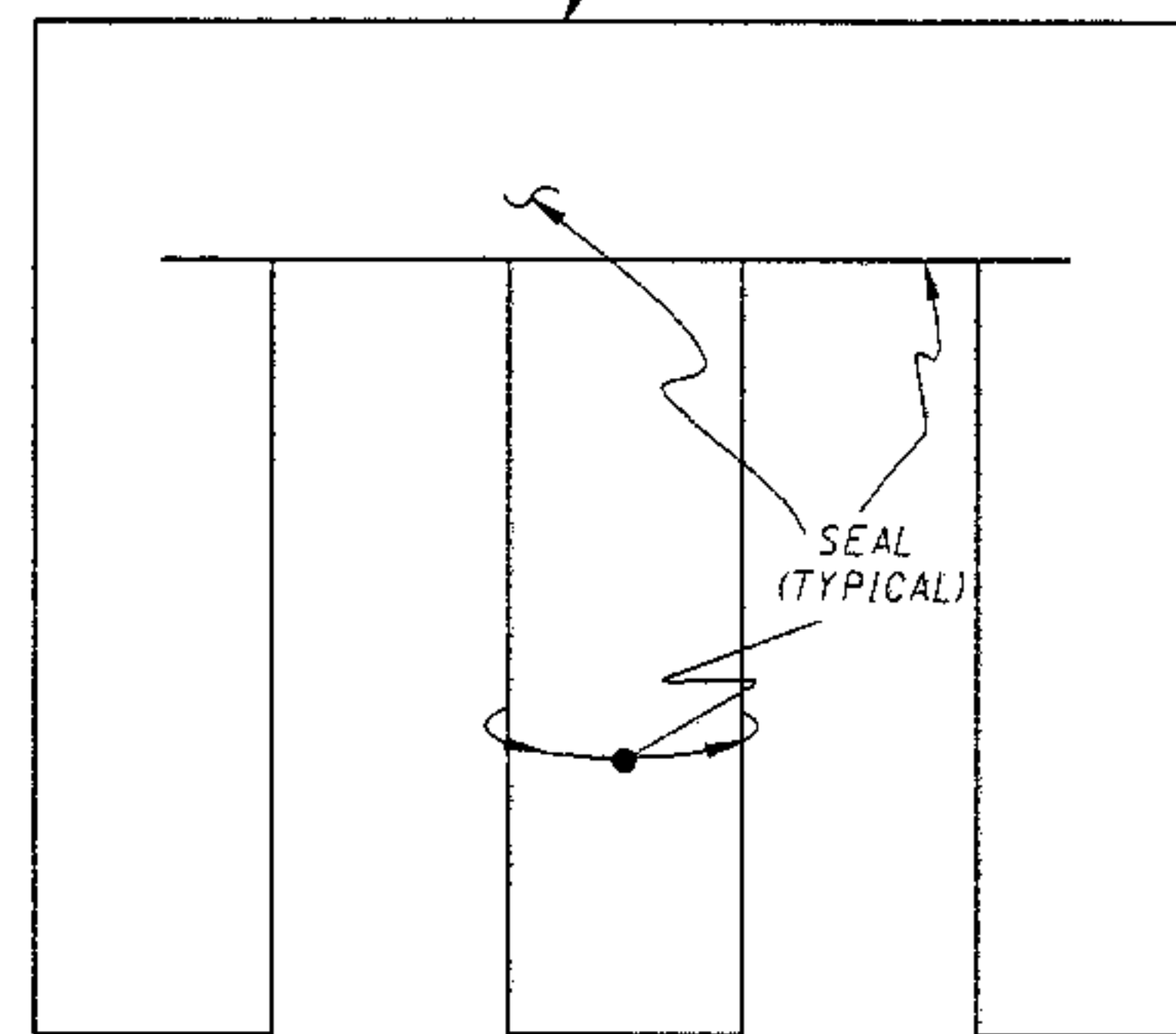
CONCRETE SEALING DETAILS

SEAL ENTIRE
SURFACE AREA



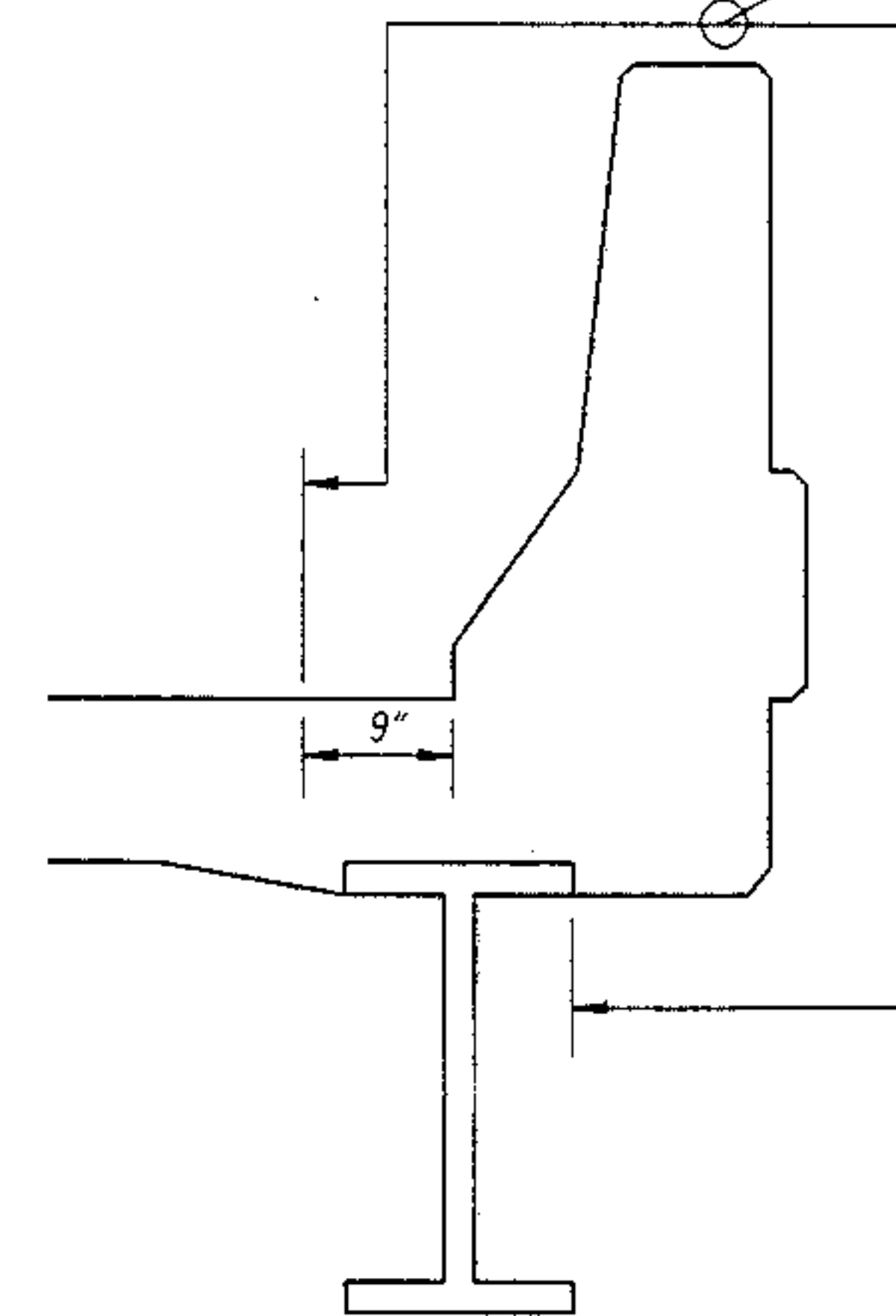
CURB, SIDEWALK, AND PARAPET SECTION

TOP OF PIERS NOT TO BE SEALED



PIERS

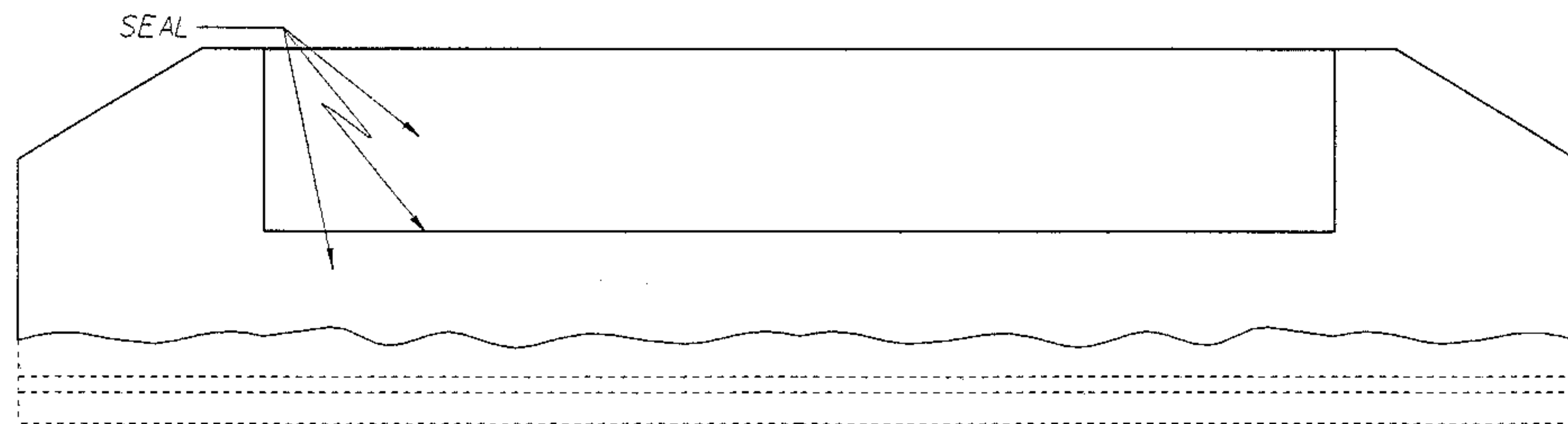
SEAL ENTIRE
SURFACE AREA



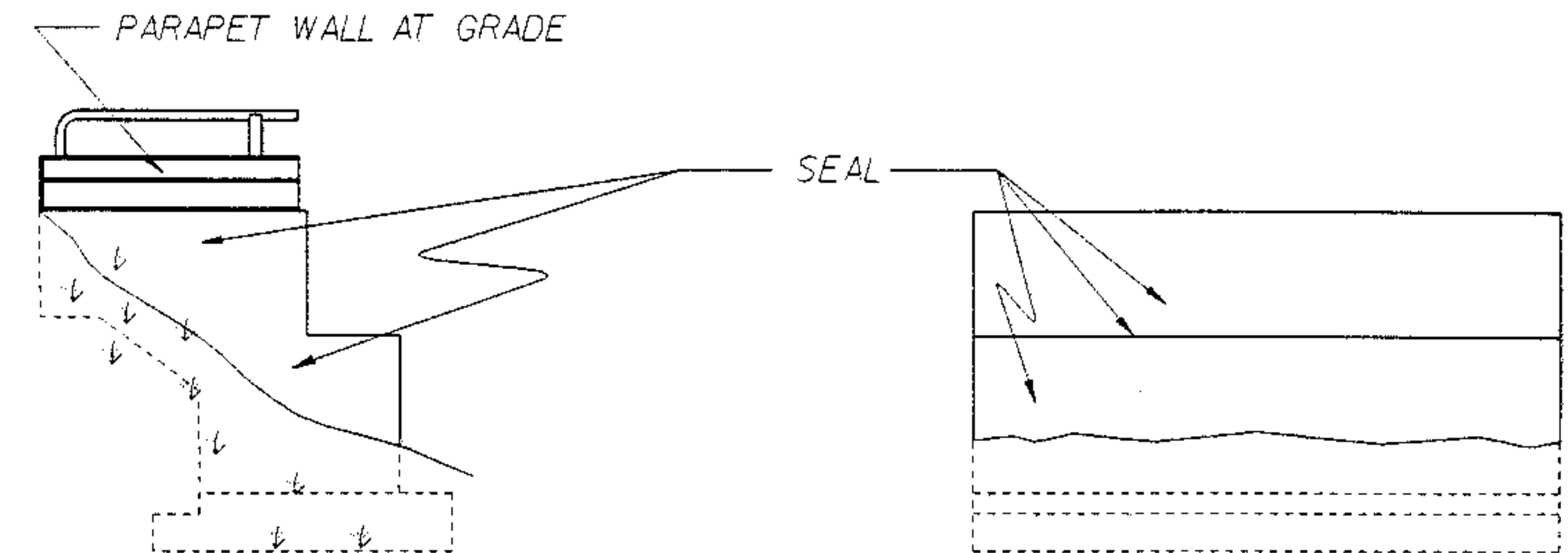
BARRIER PARAPET SECTION

dielcic@D04CD039 - sealdeils.m - Wednesday May 05 1999 10:55:44 AM EDT

CONCRETE SEALING DETAILS



ABUTMENT AND WINGWALL ELEVATION
(TYPE 1)

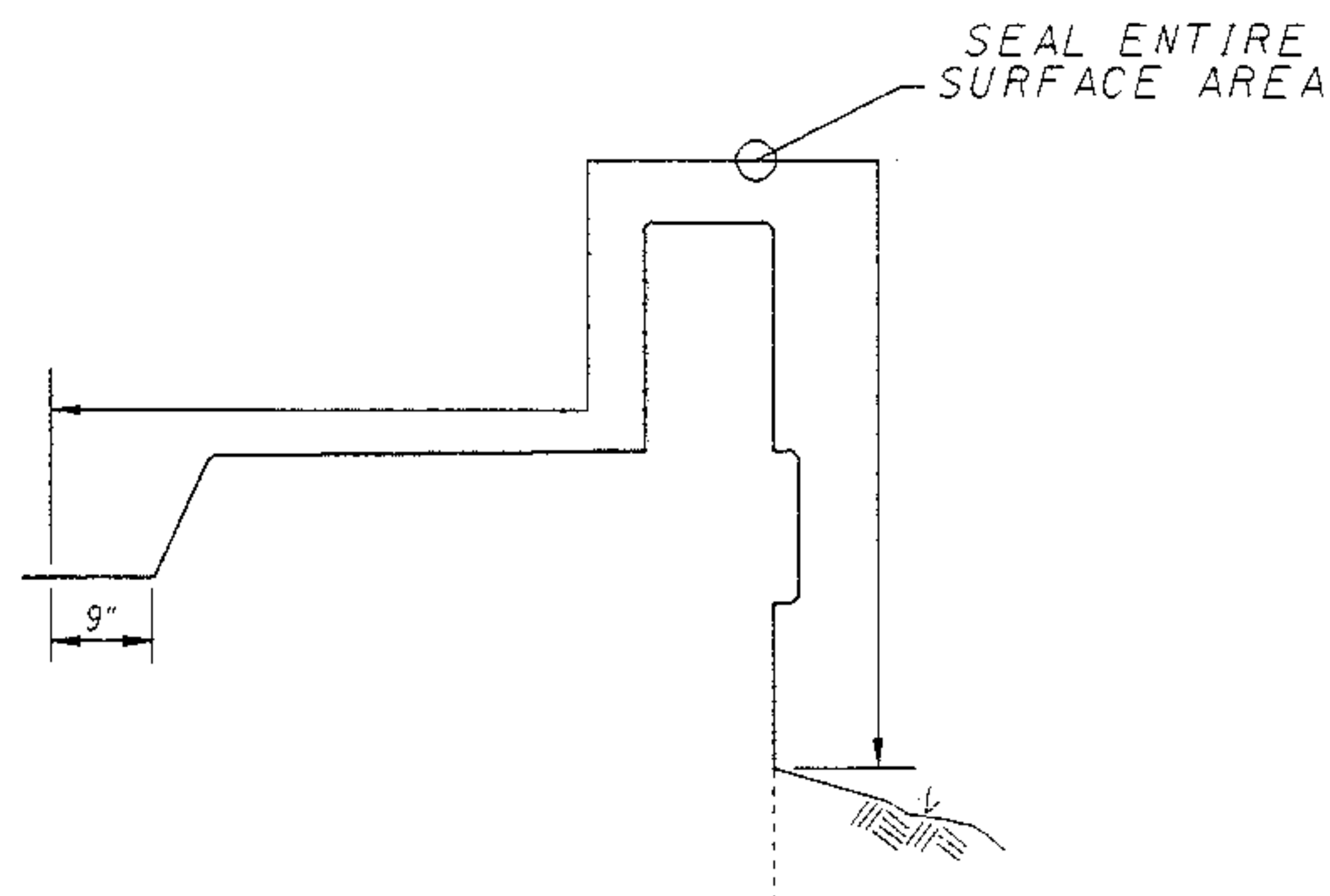


WINGWALL ELEVATION
(TYPE 2)

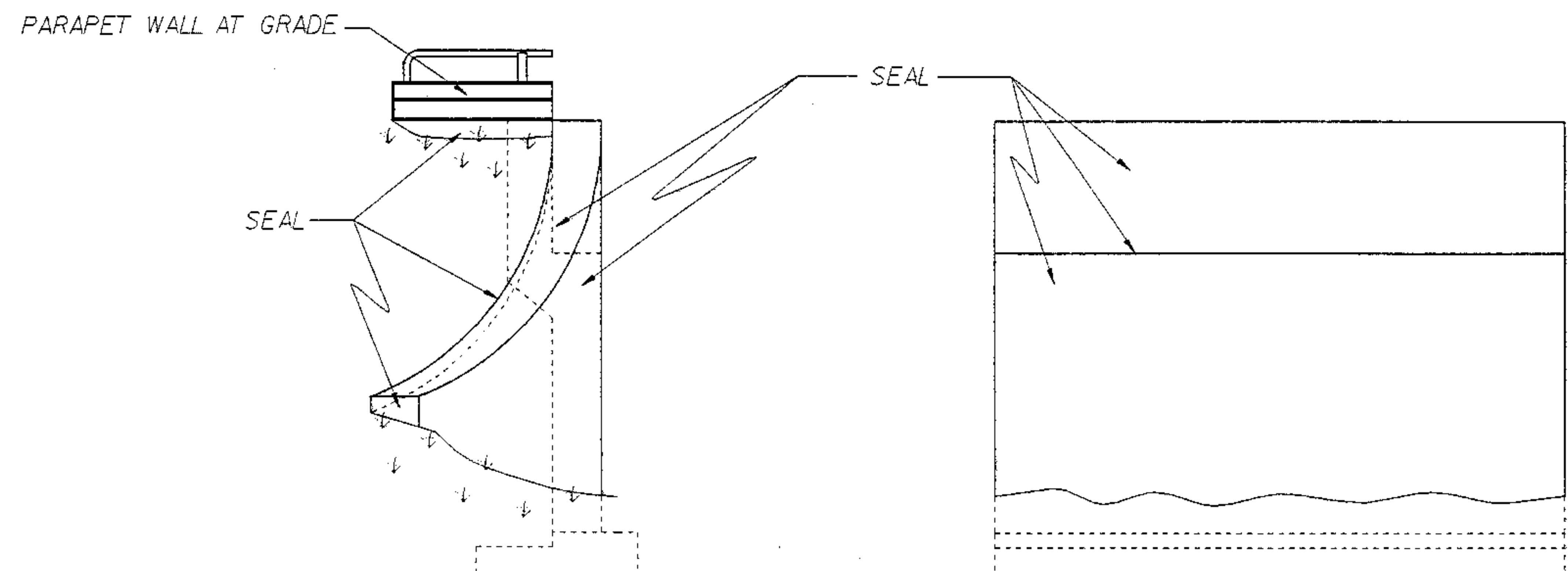
ABUTMENT ELEVATION

SEALING SUMMARY					WINGWALL DETAILS							
BRIDGE NUMBER	PIER/ PIERCAPS	BACKWALL/ WINGWALL	PARAPETS/ RAISED MEDIANS	STRUCTURE TOTAL	TYPE 1		TYPE 2		TYPE 3		RETAINING WALL * (NOT TO BE SEALED)	
	SQ YD	SQ YD	SQ YD	SQ YD	REAR	FWD	REAR	FWD	REAR	FWD	REAR	FWD
MAH-680-0587	98	543	531	1,172					2	1		1
MAH-680-0594	268	620	546	1,434					1	1	1	1
MAH-680-0637	691	83	1,311	2,085			2	2				
MAH-680-1541L	169	49	281	499	1	1						
MAH-680-1541R	170	49	281	500	1	1						

* QUANTITY REFERS TO NO. OF WINGWALLS THAT ARE NOT TO BE SEALED BECAUSE THEY ARE PART OF AN ADJACENT RETAINING WALL.



PARAPET WALL SECTION AT GRADE



CURVED WINGWALL ELEVATION
(TYPE 3)

ABUTMENT ELEVATION

118541SEL.DGN

DESIGN AGENCY
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
DISTRICT 12
STRUCTURES SECTION

DESIGNED
BPD
CHECKED
DLG

DRAWN
BPD
REVISED

REVIEWED
DLG

DATE
04-99

STRUCTURE FILE NUMBER

REPAIR DETAILS - CONCRETE SEALING

MAH-680-04-14

12
13

dietic@D04CD039 - sgungrd.in - Wednesday May 05 1999 10:57:02 AM EDT

STRUCTURE NUMBER	ITEM 630 GROUND MOUNTED SUPPORT, NO. 2 POST	ITEM 630 SIGN, FLAT SHEET	ITEM 630 REMOVAL OF GROUND MOUNTED POST AND DISPOSAL
	LIN FT	SQ FT	EACH
MAH-680-0587	14	1.40	2
MAH-680-0594	21	2.10	3
MAH-680-0637	14	1.40	2
MAH-680-1541L	7	0.70	1
MAH-680-1541R	7	0.70	1
TOTALS	63	6.30	9

