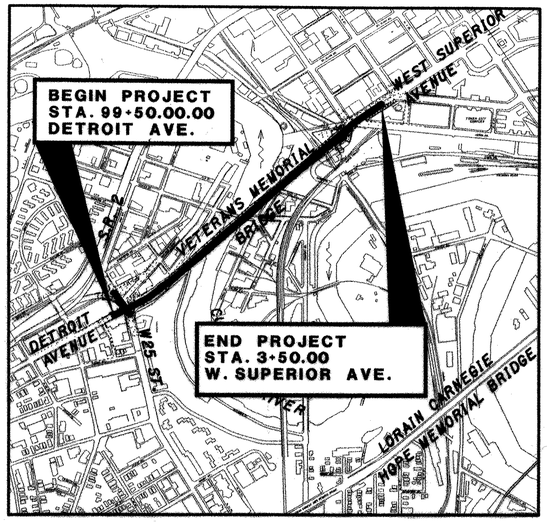
VETERANS MEMORIAL BRIDGE

CITY OF CLEVELAND
CUYAHOGA COUNTY



LOCATION MAP

LATITUDE: 41° 29 '37"N LONGITUDE: 81° 42' 12"W

SCALE IN FEET

0 900 1800 2700 3600

N

PORTION TO BE IMPROVED
INTERSTATE & DIVIDED HIGHWAY
UNDIVIDED STATE & FEDERAL ROUTES
OTHER ROADS

DESIGN DESIGNATION

	4-LANE BRIDGE	4-LANE BRIDGE W/ SHOREWAY CHANGE
CURRENT ADT (2005)	20,540	23,610
DESIGN YEAR ADT (2025)	23,050	26,500
DESIGN HOURLY VOLUME	1,856	2,133
DIRECTIONAL DISTRIBUTION	0.78	0.78
TRUCKS (24 HOUR B&C)	0.08	0.08
DESIGN SPEED	40	
LEGAL SPEED	35	

DESIGN FUNCTIONAL CLASSIFICATION - URBAN ARTERIAL

DESIGN EXCEPTIONS

NONE REQUIRED

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LANDSCAPING DETAILS	116A
ARCHITECTURAL DETAILS	117-120

SHEETS 87-89, ~~27~~97 NOT USED

FILE No. _____

CUYAHOGA COUNTY No. _____
DATE OF LETTING _____
CONTRACT No. _____

REVIEWED BY: _____ DATE: _____

APPROVED _____ DATE: 6/19/03 CHIEF HIGHWAY DESIGN ENGINEER

APPROVED _____ DATE: 6/19/03 CHIEF TRAFFIC AND TRANSPORTATION ENGINEER

APPROVED _____ DATE: 6/19/03 CHIEF BRIDGE DESIGN ENGINEER

PROJECT DESCRIPTION

CONSTRUCT 0.67 MILES OF PEDESTRIAN WALKWAY, MINOR ROADWAY IMPROVEMENTS, PARKING LOT IMPROVEMENTS, TRAFFIC SIGNAL, AND PAVEMENT MARKINGS. ADDITIONAL WORK INCLUDES INSTALLATION OF PEDESTRIAN CANOPY SHELTERS, LIGHT FIXTURES, PEDESTRIAN SEATING, AND SPECIAL ART ELEMENTS.

2002 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 OF THE HIGHWAY TO TRAFFIC AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

ROBERT C. KLAIBER, JR., P.E., P.S.
CUYAHOGA COUNTY ENGINEER

APPROVED _____ CUYAHOGA COUNTY ENGINEER

DATE 6/19/03

BOARD OF COMMISSIONERS
CUYAHOGA COUNTY

APPROVED _____ COUNTY COMISSIONER

DATE JUNE 24, 2003

APPROVED _____ COUNTY COMISSIONER

DATE 6/24/03

APPROVED _____ COUNTY COMISSIONER

DATE 06/24/03

JOURNAL _____ PAGE _____ DATE _____

FEDERAL PROJECT NO. E033(602)
PID NO. 24287
CONSTRUCTION PROJECT NO.
RAILROAD INVOLVEMENT NONE
VETERANS MEMORIAL BRIDGE
1/120

UNDERGROUND UTILITIES
TWO WORKING DAYS
BEFORE YOU DIG
CALL 1-800-362-2764 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

PLAN PREPARED BY:

HNTB
ARCHITECTS ENGINEERS PLANNERS
55 ERIEVIEW PLAZA, SUITE 500
CLEVELAND, OHIO 44114

ENGINEERS SEAL:

STATE OF OHIO · MATTHEW J WAHL · E-60644 · REGISTERED PROFESSIONAL ENGINEER

SIGNED: Matthew J Wahl
DATE: 7-01-03

ODOT STANDARD CONSTRUCTION DRAWINGS

BP-1.1	7-28-00	GR-1.1	4-18-03	MT-105.11	10-18-02	TC-51.12	4-20-01
BP-1.2	7-28-00	GR-2.1	4-18-03	MT-110.10	10-18-02	TC-52.10	4-20-01
BP-2.1	7-28-00			MT-110.20	10-18-02	TC-52.20	4-20-01
BP-2.2	7-28-00	DM-1.2	7-19-02	MT-110.30	10-18-02	TC-71.10	4-19-02
BP-2.5	7-28-00	DS-1-92	7-19-02			TC-81.20	5-1-00
BP-3.1	7-28-00			TC-16.20	1-19-01	TC-82.10	4-19-02
BP-4.1	7-28-00	MT-35.10	4-20-01	TC-17.10	1-19-01		
BP-5.1	7-28-00	~~MT-35.11~~	~~1-30-95~~	TC-21.10	1-19-01	TC-83.10	5-1-00
BP-6.1	7-28-00	MT-95.30	4-19-02	TC-22.20	1-19-01	TC-83.20	5-1-00
~~BP-7.1~~	~~7-28-00~~	MT-95.31	4-19-02	TC-31.21	4-20-01	TC-85.10	4-19-02
		MT-95.32	4-19-02	TC-32.10	4-19-02	TC-85.20	5-1-00
CB-2.3	7-19-02	MT-97.11	4-19-02	TC-32.11	10-19-01		
CB-4.2	7-19-02	MT-97.10	4-19-02	TC-41.40	1-18-02	BP-2.5C	6-11-03
		~~MT-99.10~~	~~1-30-95~~	TC-41.41	1-19-01	BP-2.6C	2-10-03
RM-4.3	4-18-03	MT-99.20	1-30-95	TC-42.20	4-20-01		
RM-4.5	4-18-03	MT-105.10	10-18-02	TC-51.11	4-20-01		

CUYAHOGA COUNTY STANDARD CONSTRUCTION DRAWINGS

CB-3C	10-29-01	SGN-5C	3-29-01
MB-1C	10-29-01	SGN-6C	4-23-01
MD-1C	6-11-03	PST-1C	4-10-01
MH-10C	10-29-01	MKG-1C	1-16-01
		MKG-2C	8-31-00
SGN-1C	4-23-01	CB-1*	
SGN-2C	4-23-01		
SGN-3C	4-23-01		

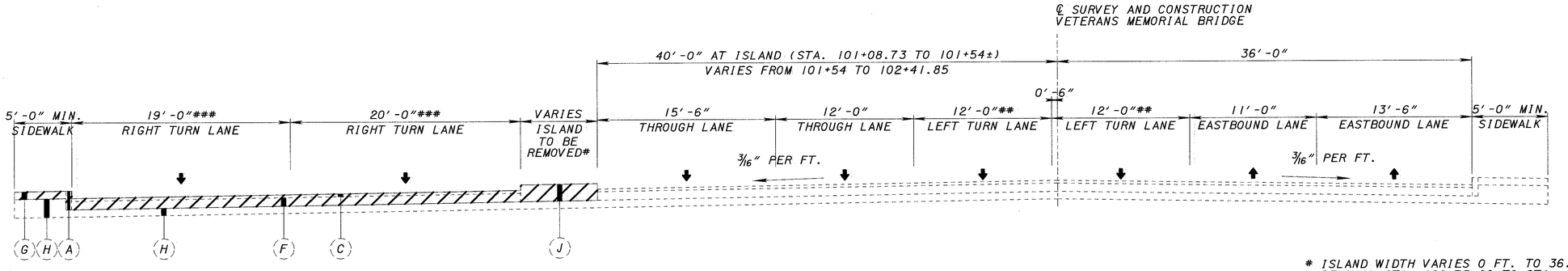
*CITY OF CLEVELAND STANDARD

SUPPLEMENTAL SPECIFICATIONS

832	2-12-03
833	2-12-03
846	4-19-02
864	7-11-00
954	9-9-97
1068	11-1-01
1069	2-8-02
1074	2-12-03

SPECIAL PROVISIONS

SPEC BOOK



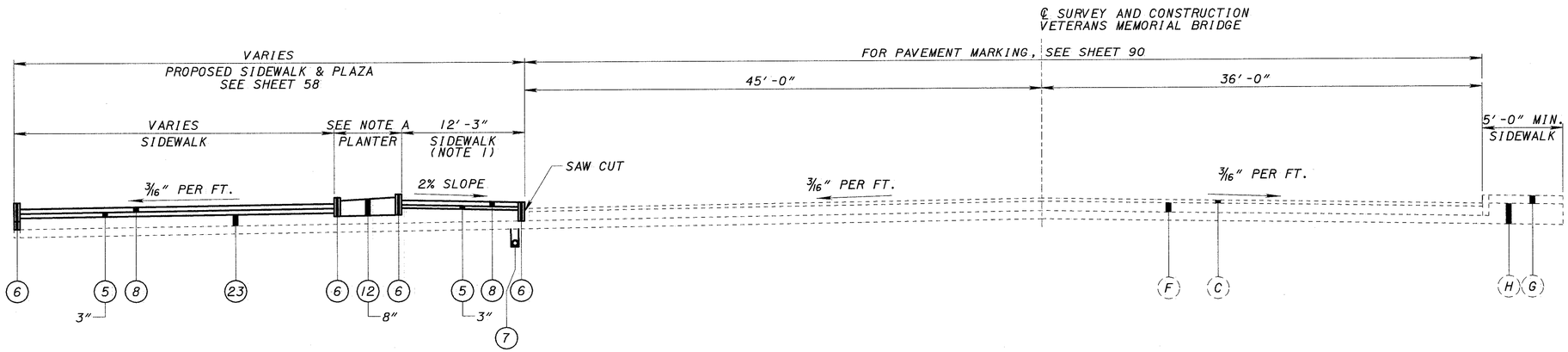
EXISTING VETERANS MEMORIAL BRIDGE SECTION

STA. 101+08.73 TO STA. 102+41.85

* ISLAND WIDTH VARIES 0 FT. TO 36.75 FT.
REMOVAL STA. 100+75.89 TO STA. 101+52.92

** LEFT TURN LANES BEGINS STA. 103+43

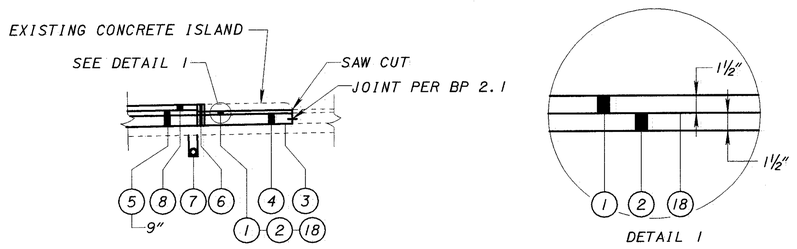
*** RIGHT TURN LANES BEGINS STA. 103+43



PROPOSED VETERANS MEMORIAL BRIDGE SECTION

STA. 101+08.73 TO STA. 102+41.85

NOTE A:
9′-7¼″ FROM STA. 101+08.73 TO STA. 101+40.77
14′-0″ FROM STA. 101+40.77 TO STA. 102+28.69



DETAIL FOR PAVEMENT CONSTRUCTION AT EXISTING CONCRETE ISLAND

STA. 100+73.60 TO STA. 101+54.92

NOTES:
1. FOR DETAIL OF PROPOSED SIDEWALK PAVING MATERIALS, SEE SHEET NO. 65.
2. ▨ INDICATES REMOVAL.
3. FOR LEGEND, SEE SHEET 4.

CALCULATED AHS CHECKED KRS

TYPICAL SECTIONS

VETERANS MEMORIAL BRIDGE

7
120

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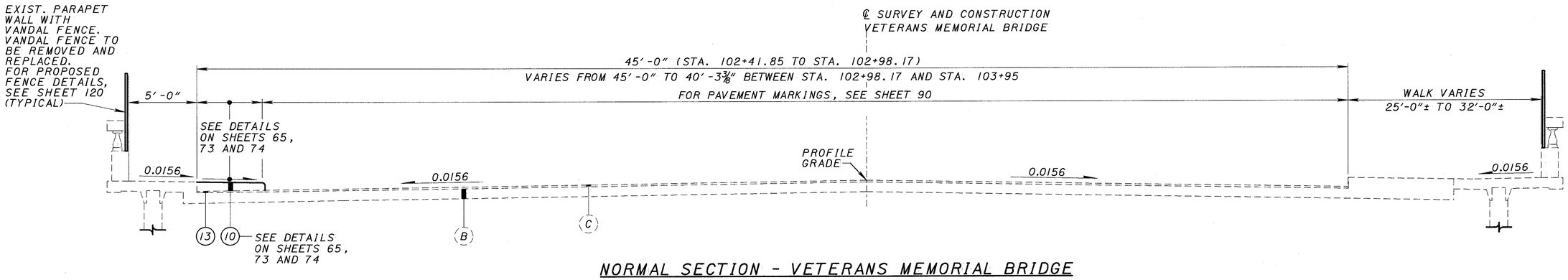

NORMAL SECTION - VETERANS MEMORIAL BRIDGE

STA. 102+41.85 TO STA. 103+95.00

NOTE:
FOR LEGEND, SEE SHEET 4.

TYPICAL SECTIONS

CALCULATED AHS
CHECKED KRS

VETERANS MEMORIAL BRIDGE

8
120

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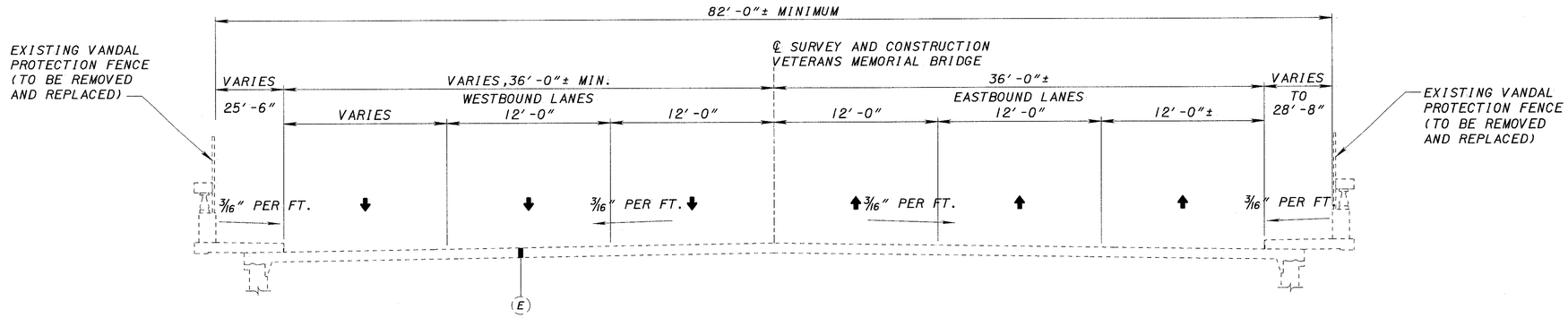
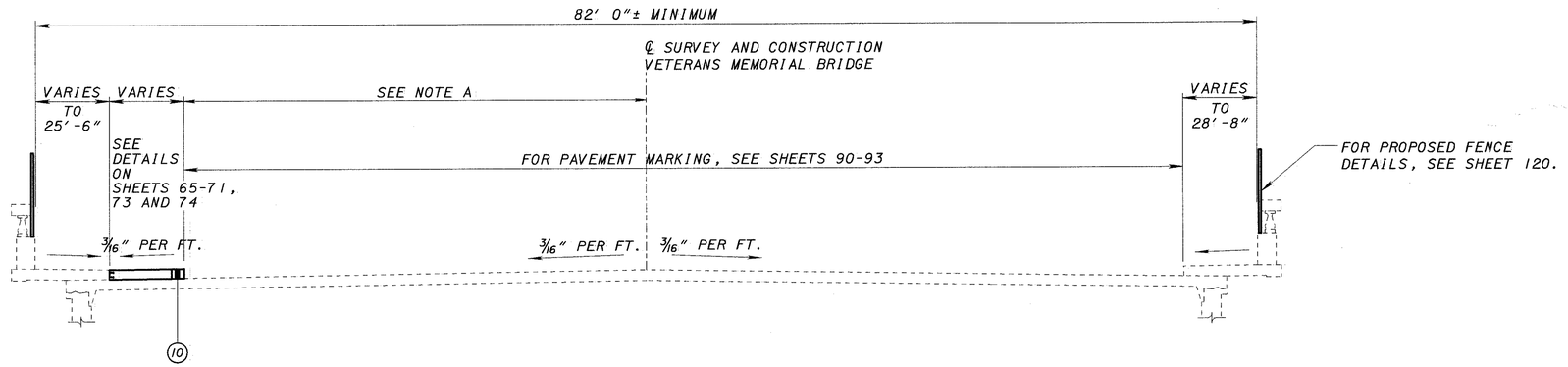


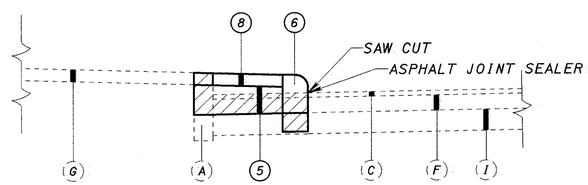
EXISTING TYPICAL SECTION DECK ARCH BRIDGE SEGMENT

STA. 103+95.00 TO STA. 110+91.83
STA. 117+35.53 TO STA. 130+90.00



PROPOSED TYPICAL SECTION DECK ARCH BRIDGE SEGMENT

STA. 103+95.00 TO STA. 110+91.83
STA. 117+35.53 TO STA. 130+90.00



SIDEWALK AND CURB TYPE 6 CONSTRUCTION

EAST OF STA. 130+90.00

NOTE A:
VARIES FROM 40'-3⅜" TO 35'-0" BETWEEN STA. 103+95.00 AND STA. 104+96.83;
35'-0" FROM STA. 104+96.83 TO STA. 105+34.00;
VARIES FROM 35'-0" TO 22'-0" BETWEEN STA. 105+34.00 AND STA. 106+25.00;
22'-0" BETWEEN STA. 106+25.00 AND STA. 110+50.00;
VARIES FROM 22'-0" TO 22'-3¾" BETWEEN STA. 110+50.00 AND STA. 110+91.83;
VARIES FROM 22'-3⅜" TO 22'-0" BETWEEN STA. 117+35.53 AND STA. 117+70.00;
22'-0" FROM STA. 117+70.00 TO STA. 123+20.00;
VARIES FROM 22'-0" TO 40'-0" BETWEEN STA. 123+20.00 AND STA. 128+00.00;
40'-0" BETWEEN STA. 128+00.00 AND STA. 130+90.00.

NOTES:
FOR LEGEND, SEE SHEET 4.

CALCULATED AHS CHECKED KAS

TYPICAL SECTIONS

VETERANS MEMORIAL BRIDGE

9
120

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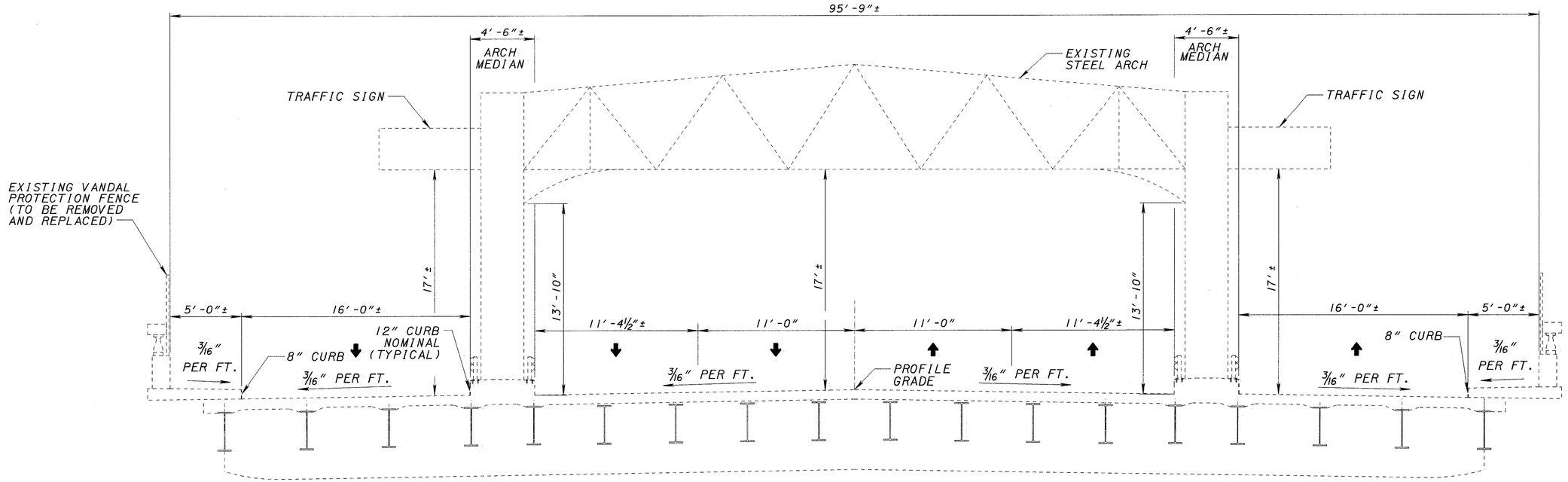
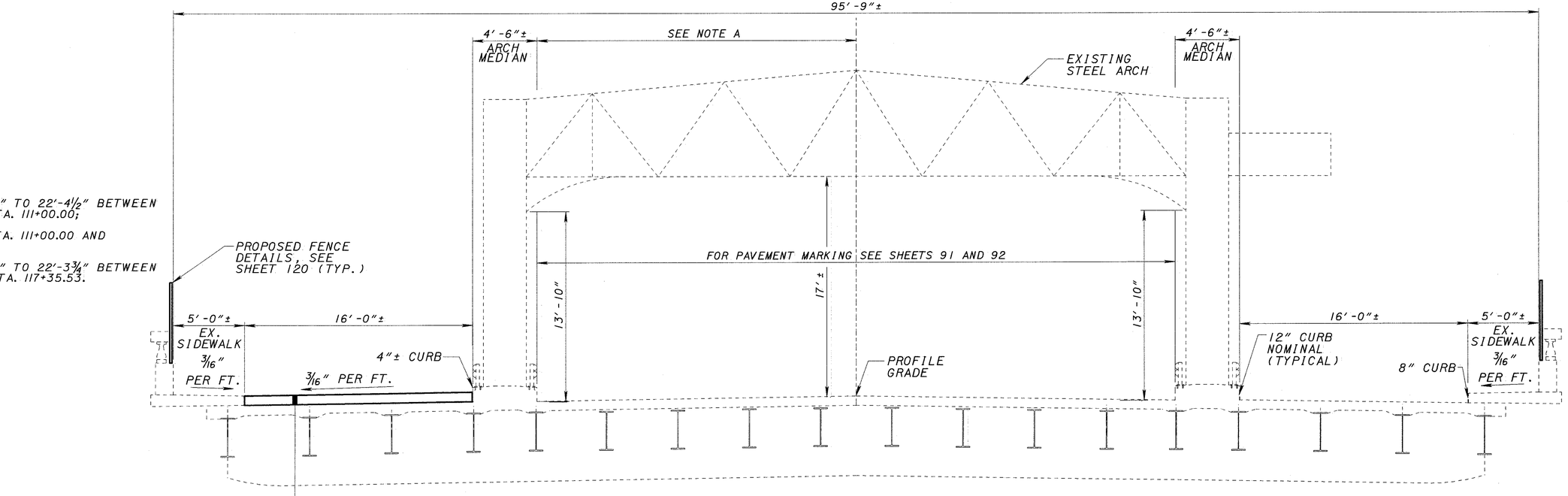


EXISTING TYPICAL SECTION STEEL THROUGH ARCH BRIDGE SEGMENT

STA. 110+91.83 TO STA. 117+35.53



NOTE A:

VARIES FROM 22′-3¾″ TO 22′-4½″ BETWEEN STA. 110+91.82 AND STA. 111+00.00;

22′-4½″ BETWEEN STA. 111+00.00 AND STA. 117+20.00;

VARIES FROM 22′-4½″ TO 22′-3¾″ BETWEEN STA. 117+20.00 AND STA. 117+35.53.

FOR DETAILS, SEE SHEETS 72-74 (10)

PROPOSED TYPICAL SECTION STEEL THROUGH ARCH BRIDGE SEGMENT

STA. 110+91.83 TO STA. 117+35.53

NOTES:

FOR DETAIL OF SIDEWALK PAVING MATERIALS, SEE SHEETS 65-71.

CALCULATED AHS CHECKED KRS

TYPICAL SECTIONS

VETERANS MEMORIAL BRIDGE

10 / 120

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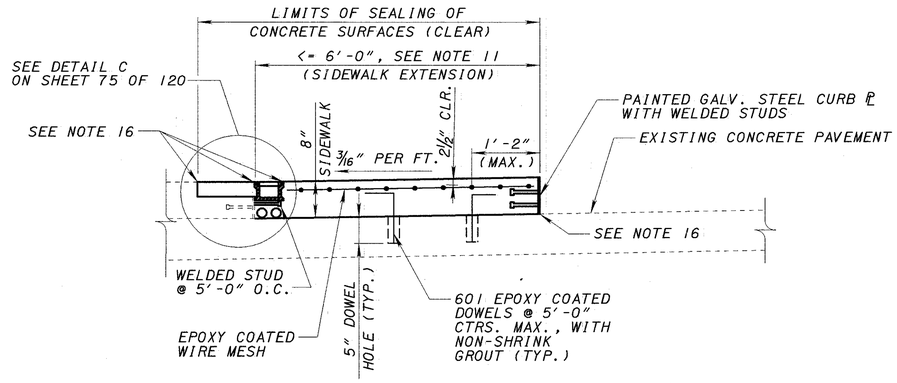
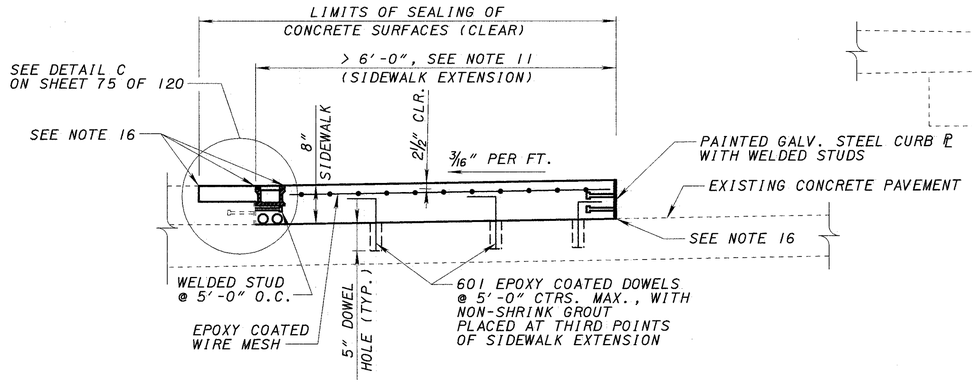


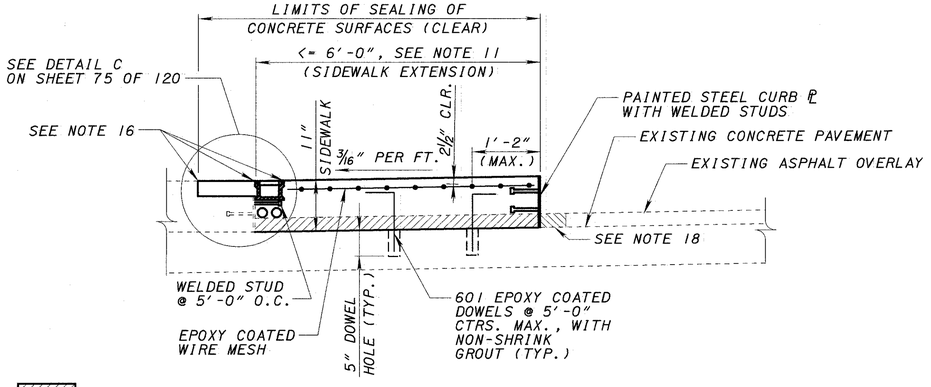
NORTH SIDEWALK SECTION - TYPE A

(SECTIONS WITH SIDEWALK EXTENSION LESS THAN OR EQUAL TO 6'-0")
(STA. 103+95± TO STA. 105+69± AND STA. 125+33± TO STA. 130+91±)



NORTH SIDEWALK SECTION - TYPE B

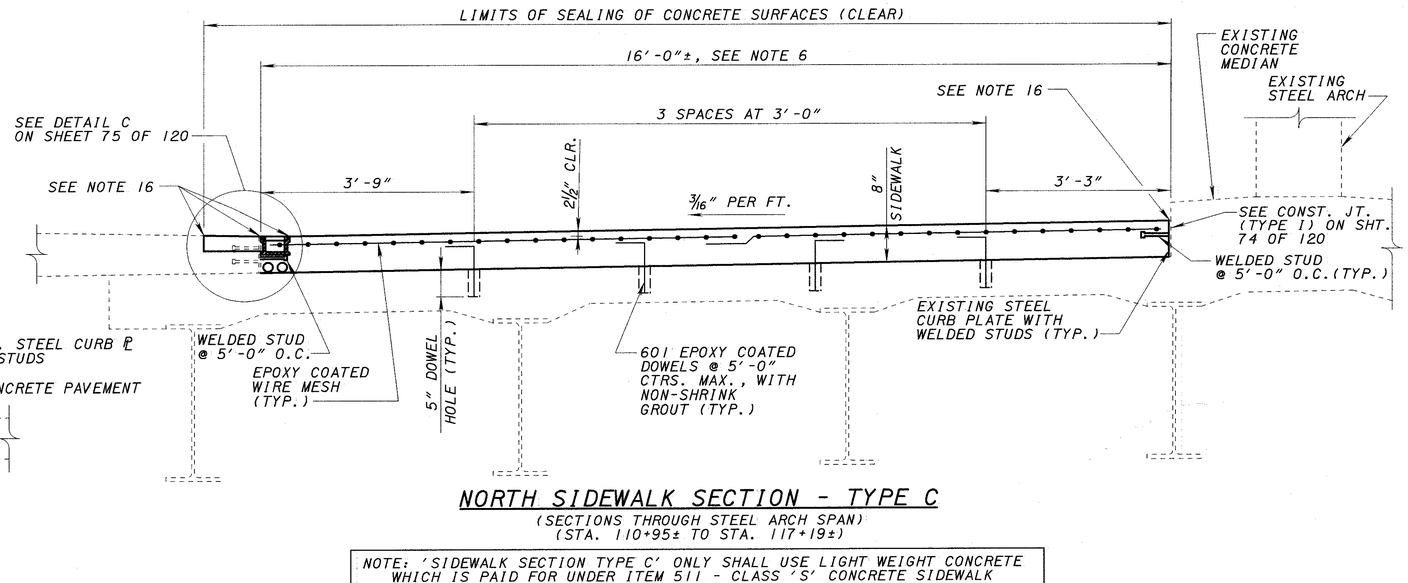
(SECTIONS WITH SIDEWALK EXTENSION GREATER THAN 6'-0")
(STA. 105+69± TO STA. 110+95± AND STA. 117+19± TO STA. 125+33±)



DENOTES ITEM 202 - PORTIONS OF STRUCTURE TO BE REMOVED, AS PER PLAN

NORTH SIDEWALK SECTION - TYPE D

(SECTIONS WITH SIDEWALK EXTENSION LESS THAN OR EQUAL TO 6'-0")
(STA. 103+05± TO STA. 103+95±)



NORTH SIDEWALK SECTION - TYPE C

(SECTIONS THROUGH STEEL ARCH SPAN)
(STA. 110+95± TO STA. 117+19±)

NOTE: 'SIDEWALK SECTION TYPE C' ONLY SHALL USE LIGHT WEIGHT CONCRETE WHICH IS PAID FOR UNDER ITEM 511 - CLASS 'S' CONCRETE SIDEWALK WEARING SURFACE, AS PER PLAN B (LIMESTONE OR SHADOW SLATE)

NOTES:

1. FOR BAR BENDING DIAGRAM, SEE SHEET 74 OF 120.
2. FOR SIDEWALK EXPANSION JOINT DETAILS, SEE SHEET 77 OF 120.
3. CLEAR COVER ABOVE REINFORCING SHALL BE 2½" MINIMUM.
4. ADJACENT WIRE MESH SHEETS SHALL BE LAPPED A MINIMUM OF 2 FT.
5. THE COST OF REINFORCING, WIRE MESH, DOWELS, DOWEL HOLES, SAW CUTS, SURFACE PREPARATION, BONDING COMPOUND, NON-SHRINK GROUT AND ALL INCIDENTALS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 511-CLASS S CONCRETE, SIDEWALK WEARING SURFACE, AS PER PLAN A OR B. (LIMESTONE, SHADOW SLATE OR PLAIN)
6. THE NOMINAL DIMENSIONS SHOWN VARY AND SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD.
7. SIDEWALK MODIFICATION CONSISTS OF THE PARTIAL REMOVAL OF THE EXISTING CURB PLATE AND CHIPPING OUT TO EXPOSE EXISTING REINFORCING BARS. EPOXY BONDING COMPOUND SHALL BE PLACED ON CHIPPED OUT PORTION OF SIDEWALK PRIOR TO CONCRETE PLACEMENT.
8. FOR ADDITIONAL CURB AND REINFORCING DETAILS, SEE SHEET 74 OF 120.
9. FOR CONSTRUCTION JOINT TYPE DETAILS, SEE SHEET 74 OF 120.
10. EPOXY COATED WIRE MESH SHALL BE W7.5 X W7.5 WITH 6"X 6" WITH MINIMUM STRENGTH fy = 80,000 PSI GRID AND SHALL BE IN ACCORDANCE WITH ODOT SPECIFICATION 709.14 OR APPROVED EQUAL.
11. SEE ROADWAY PLANS FOR EXACT SIDEWALK EXTENSION DIMENSIONS.
12. FOR DRAINAGE MODIFICATION DETAILS, SEE SHEETS 76 TO 76E OF 120.
13. FOR CONCRETE COLORS AND LOCATIONS, SEE SIDEWALK TREATMENT DETAILS, SHEETS 65 THRU 71 OF 120.
14. A FULL LINE OF SHEAR STUDS OR DOWELS SHALL BE PLACED ON BOTH SIDES OF ANY CONSTRUCTION JOINT.
15. TWO FULL LINES OF DOWELS (AT 12" O.C. LONGITUDINALLY) SHALL BE PLACED ON BOTH SIDES OF EXPANSION JOINTS.
16. SEAL ALL CONSTRUCTION JOINTS WITH HMWM RESIN. INCLUDE WITH SIDEWALK CONCRETE FOR PAYMENT.
17. THE COST OF SURFACE PREPARATION AND THE PLACEMENT OF THE WELDED STUDS AT THE MEDIAN SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 513 - WELDED STUD SHEAR CONNECTORS.
18. A PORTION OF THE EXISTING ASPHALT WEARING SURFACE ADJACENT TO THE SIDEWALK SECTION - TYPE D (AT THE WEST END OF THE BRIDGE) SHALL BE REMOVED IN ACCORDANCE WITH ITEM 202. THE ASPHALT SHALL BE REPLACED IN ACCORDANCE WITH ITEM 446 THEN THE JOINTS SEALED IN ACCORDANCE WITH 705.04 AT THE DIRECTION OF THE ENGINEER. THE ASPHALT PATCH AND SEAL WORK SHALL BE INCLUDED IN THE UNIT PRICE BID PER CU.YD. FOR ITEM 446 - ASPHALT CONCRETE, MISC.: PATCHING AND SEALING.

STATE OF OHIO
MATTHEW J. LAWLER
E - 60508
REGISTERED
PROFESSIONAL ENGINEER

MATTHEW J. LAWLER, P.E.
SHEETS 16A, 17-19, 35, 38, 39, 65-84, 76A-76E

CALCULATED BBB
CHECKED MJL

MISCELLANEOUS DETAILS - 2
SIDEWALK MODIFICATIONS

VETERANS MEMORIAL BRIDGE

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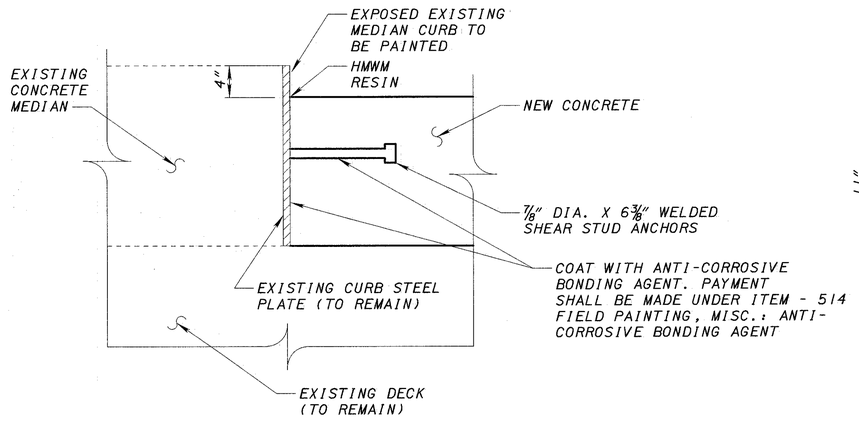
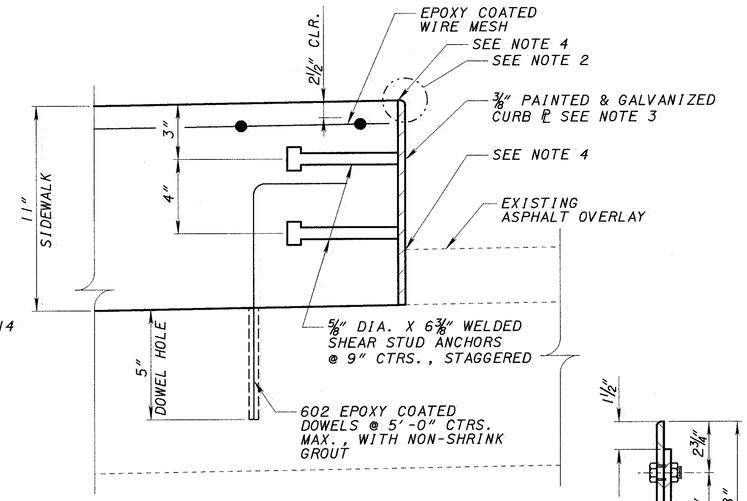
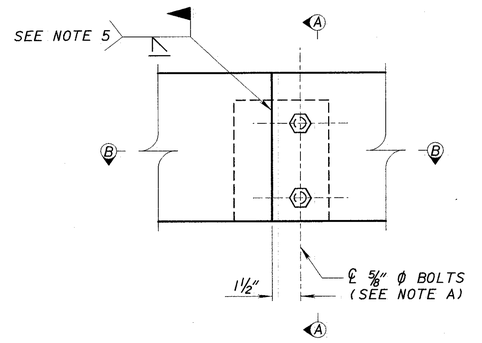


TYPE-I
(REINFORCING NOT SHOWN)

BRIDGE SIDEWALK CONSTRUCTION JOINT DETAIL

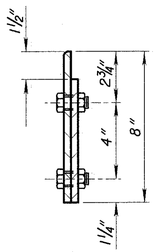


11" CURB PLATE DETAIL

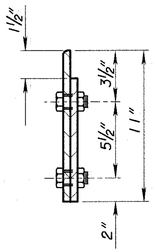


CURB PLATE ELEVATION

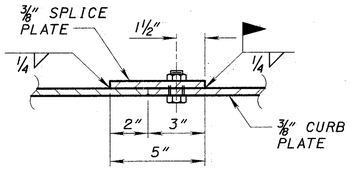
NOTE A:
REMOVE BOLTS AFTER FIELD WELDS HAVE BEEN COMPLETED.
PLUG WELD HOLES FLUSH WITH CURB PLATE.



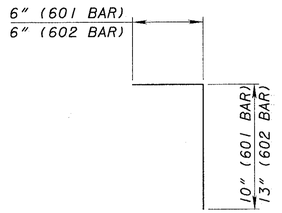
SECTION A-A
(8" CURB PLATE)



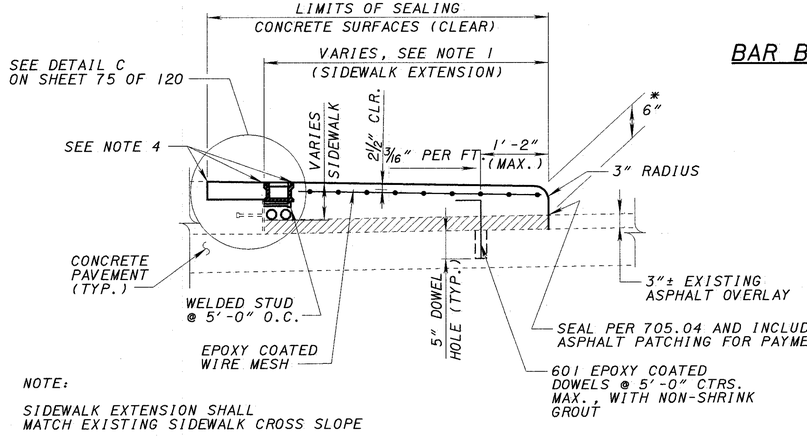
SECTION A-A
(11" CURB PLATE)



SECTION B-B



BAR BENDING DIAGRAM

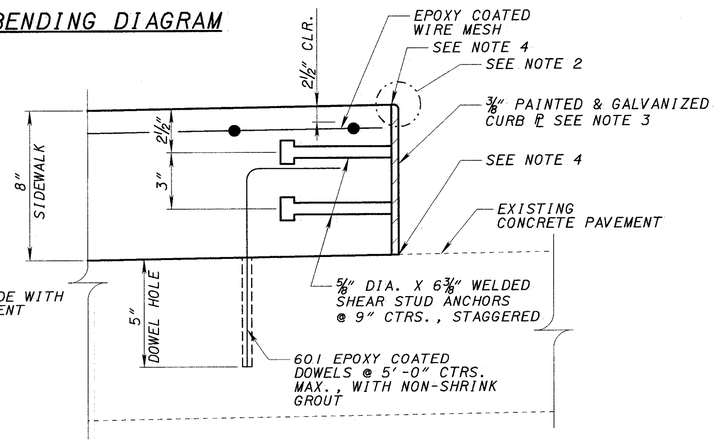


NOTE:
SIDEWALK EXTENSION SHALL MATCH EXISTING SIDEWALK CROSS SLOPE

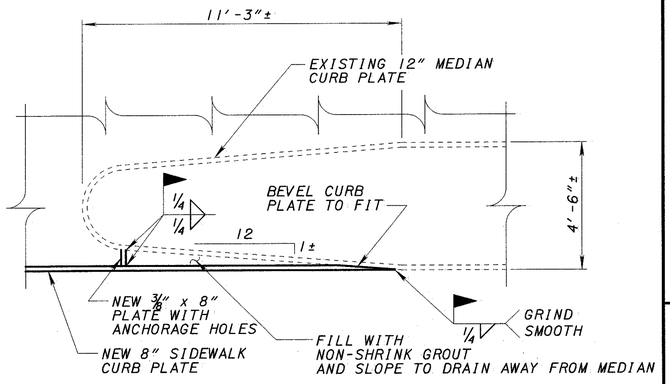
DENOTES ITEM 202 - PORTIONS OF STRUCTURE TO BE REMOVED, AS PER PLAN

* TRANSITION FROM 6" AT STA 102+95 TO 8" AT STA. 103+95

NORTH SIDEWALK SECTION - TYPE E
(SECTIONS WITH CONCRETE CURB)
(STA. 102+41.85 TO 103+05)
(TRENCH DRAIN TERMINATES AT CATCH BASIN STATION 102+58±)



8" CURB PLATE DETAIL



CURB PLATE PLAN DETAIL AT NORTH MEDIAN
(WEST END OF NORTH MEDIAN SHOWN,
EAST END OF NORTH MEDIAN SIMILAR)
WORK SHOWN IN THIS DETAIL INCLUDED WITH 8" CURB PLATE FOR PAYMENT

NOTES:

1. SEE ROADWAY PLANS FOR EXACT SIDEWALK EXPANSION DIMENSIONS.
2. TOP OF CURB PLATE SHALL BE ROUNDED WITH A 1/4 INCH RADIUS.
3. THE EXPOSED PORTION OF THE 3/8 INCH CURB PLATE SHALL BE PAINTED BATTLESHIP GREY (FEDERAL ID NO. 26152) INCLUDE WITH ITEM 514 FOR PAYMENT.
4. SEAL WITH HMWM RESIN, INCLUDE WITH SIDEWALK CONCRETE FOR PAYMENT.
5. TOUCH UP GALVANIZING AT ALL CURB PLATE FIELD WELDED LOCATIONS. SEE 'ITEM 513 - STRUCTURAL STEEL, MISC.: 8"/11" CURB PLATES' IN THE GENERAL NOTES.

CALCULATED BBB
CHECKED MJL

MISCELLANEOUS DETAILS - 3
SIDEWALK MODIFICATIONS & CURB PLATE DETAILS

VETERANS MEMORIAL BRIDGE

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PAVEMENT MARKING AND SIGNING PLAN
BEGIN TO STA. 105+00.00

VETERANS MEMORIAL BRIDGE

HORIZONTAL SCALE IN FEET
0 40 80

CALCULATED BLM
CHECKED NLD

90/120

END WORK STA. 23+50.00 W. 25TH ST.

END WORK STA. 13+89.00 VERMONT ST.

END WORK STA. 17+40 RELOCATED SR 2 RAMP

BEGIN WORK STA. 99+50 DETROIT AVE.

BEGIN PROJECT STA. 19+10 W. 25TH ST.

W. 25TH STREET

SR 2

VERMONT STREET

SUPERIOR VIADUCT

DETROIT AVENUE

VETERANS MEMORIAL BRIDGE

MATCH LINE STA. 105+00

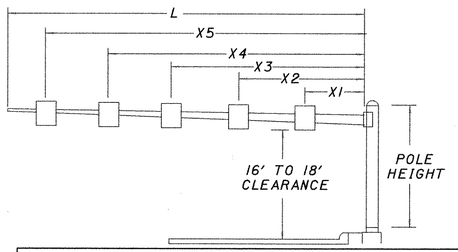
OVERLAY

SIGN LEGEND

- EXISTING TO REMAIN
- PROPOSED
- REMOVE FOR STORAGE
- EXISTING TO BE RELOCATED TO NEW SUPPORT

PAVEMENT MARKING LEGEND

(A) - EDGE LINE, WHITE
(B) - CENTER LINE, DOUBLE YELLOW
(C) - LANE LINE, WHITE
(D) - CHANNELIZING LINE, WHITE
(E) - TRANSVERSE LINE, WHITE
(F) - DOTTED LINE, WHITE
(G) - STOP LINE
(H) - LANE ARROW
(I) - WORD ON PAVEMENT
(J) - BIKE LANE SYMBOL
(K) - CROSSWALK LINES
(L) - PARKING LOT STALL MARKING



PROPOSED MAST ARM DETAIL

POLE DESIGN NO.	ARM DESIGN NO.	ARM ATTACHMENT HEIGHT	POLE HEIGHT (FT)	FOUNDATION STATION	FOUNDATION OFFSET	L (FT.)	X1 (FT.)	X2 (FT.)	X3 (FT.)	X4 (FT.)	X5 (FT.)
12	12	19	21	103+00	47.00' L	48	15	17.5	26	37.5	47

NOTE: TO BE CONSIDERED AS ONE SIGN

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PAVEMENT MARKING LEGEND

- (A) - EDGE LINE, WHITE
- (B) - CENTER LINE, DOUBLE YELLOW
- (C) - LANE LINE, WHITE
- (D) - CHANNELIZING LINE, WHITE
- (E) - TRANSVERSE LINE, WHITE
- (F) - DOTTED LINE, WHITE
- (G) - STOP LINE
- (H) - LANE ARROW
- (I) - WORD ON PAVEMENT
- (J) - BIKE LANE SYMBOL
- (K) - CROSSWALK LINES
- (L) - PARKING LOT STALL MARKING

STATE OF OHIO
ZOLTAN S. SZABO
E - 55985
REGISTERED PROFESSIONAL ENGINEER

10-24-03

ZOLTAN S. SZABO, P.E.

SHEETS 33, 33A, 34, 36, 36A, 40-44, 85, 86, 90-96, 98-103

HORIZONTAL SCALE IN FEET
0 40 80

CALCULATED BLM
CHECKED NLD

PAVEMENT MARKING AND SIGNING PLAN FROM STA. 105+00.00 TO STA. 116+00.00

VETERANS MEMORIAL BRIDGE

91
120

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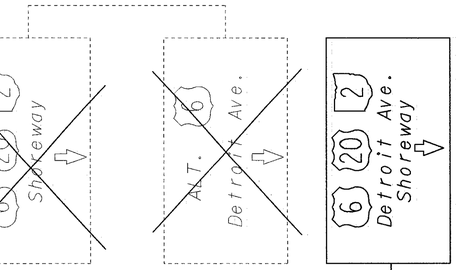
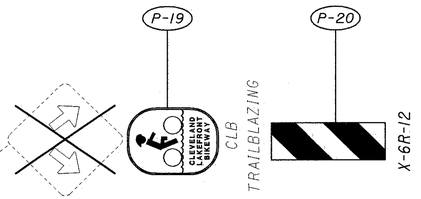
REMOVE EXISTING BRIDGE TRUSS MOUNTED CANTILEVER STRUCTURE OVER EXISTING OUTSIDE LANE ONLY

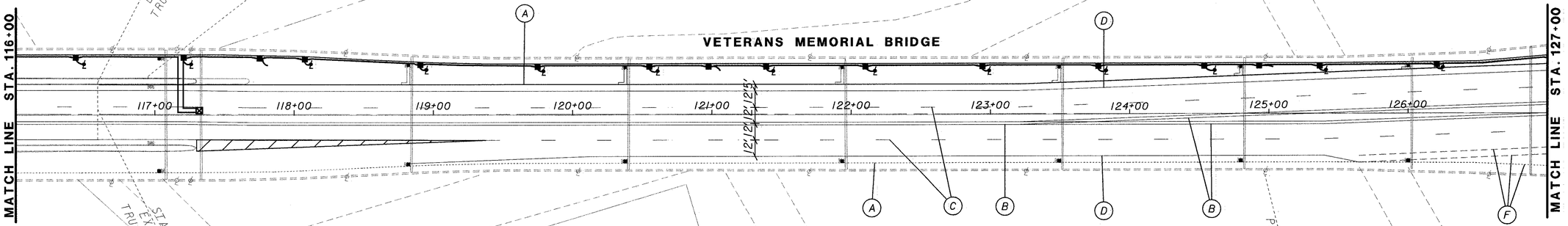


6'-6" x 11'
SHOP DRAWINGS TO BE SUBMITTED AND APPROVED BY ENGINEER



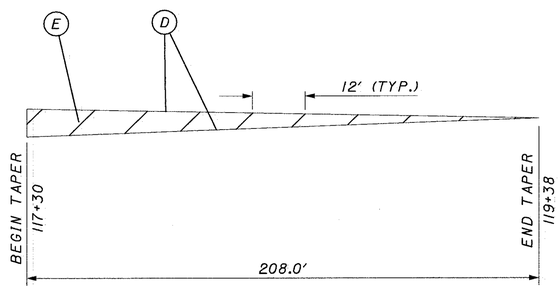
STA. 116+59 EX. BRIDGE TRUSS MOUNTED

STA. 116+95 EX. POLE MOUNTED



STA. 116+59 EX. BRIDGE TRUSS MOUNTED

VETERANS MEMORIAL BRIDGE



STA. 125+00 PROP. LIGHT POLE MOUNTED

BEGIN RIGHT TURN LANE YIELD TO BIKES
R-39R
P-21

PAVEMENT MARKING LEGEND

- (A) - EDGE LINE, WHITE
- (B) - CENTER LINE, DOUBLE YELLOW
- (C) - LANE LINE, WHITE
- (D) - CHANNELIZING LINE, WHITE
- (E) - TRANSVERSE LINE, WHITE
- (F) - DOTTED LINE, WHITE
- (G) - STOP LINE
- (H) - LANE ARROW
- (I) - WORD ON PAVEMENT
- (J) - BIKE LANE SYMBOL
- (K) - CROSSWALK LINES
- (L) - PARKING LOT STALL MARKING

SIGN LEGEND

- - EXISTING TO REMAIN
- - PROPOSED
- - REMOVE FOR STORAGE
- - EXISTING TO BE RELOCATED TO NEW SUPPORT

HORIZONTAL SCALE IN FEET
0 40 80

CALCULATED BLM
CHECKED NLD

PAVEMENT MARKING AND SIGNING PLAN FROM STA. 116+00.00 TO STA. 127+00.00

VETERANS MEMORIAL BRIDGE

92
120

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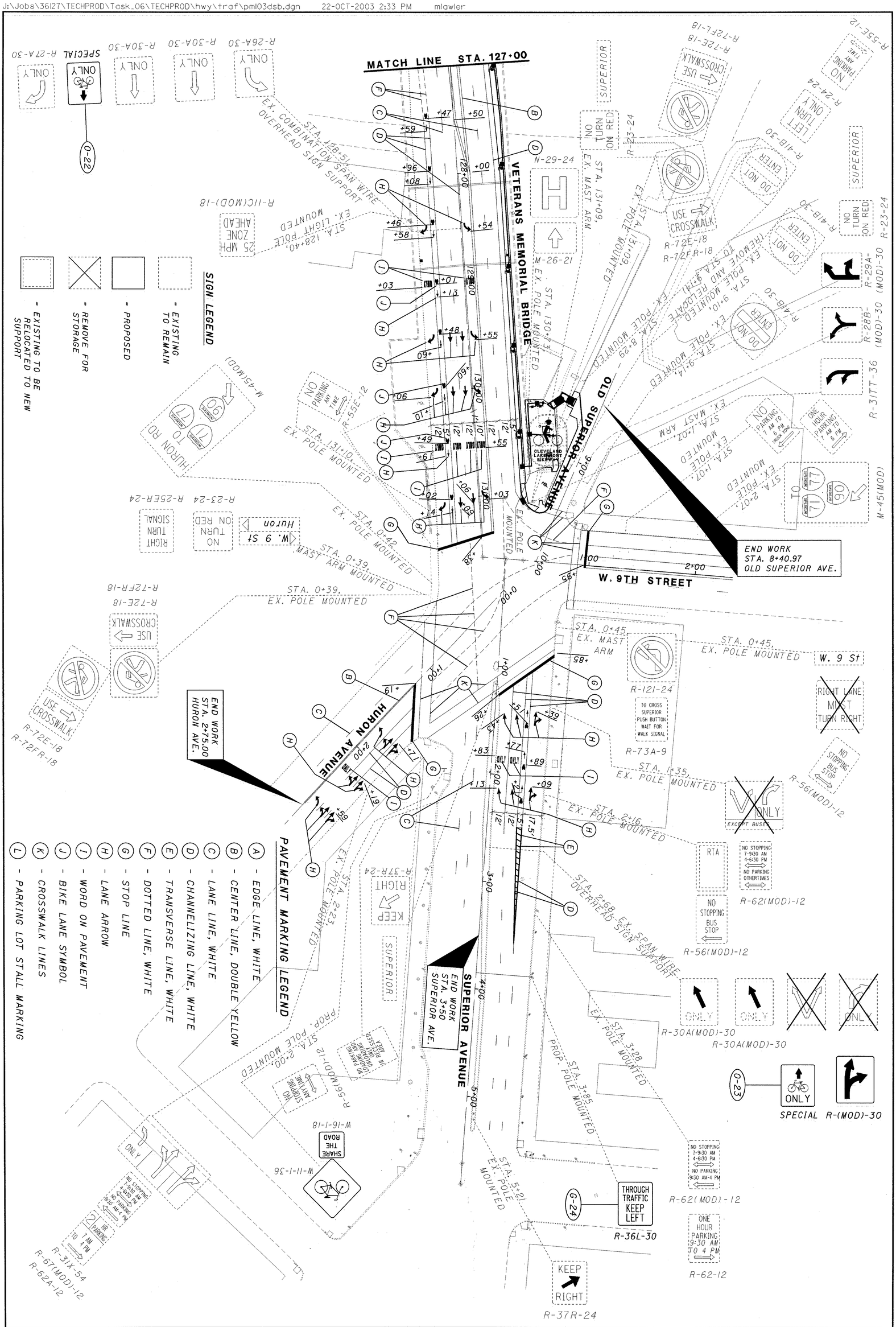

93 / 120	VETERANS MEMORIAL BRIDGE	PAVEMENT MARKING AND SIGNING PLAN FROM STA. 127+00.00 TO 3+50.00	CALCULATED BLM / CHECKED NLD / HORIZONTAL SCALE IN FEET