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CITY OF DETROIT  
IN COOPERATION WITH  
MICHIGAN DEPARTMENT OF TRANSPORTATION  
AND  
FEDERAL HIGHWAY ADMINISTRATION

PLAN AND PROFILE OF PROPOSED  
REPLACEMENT OF THE  
**ANTIETAM AVENUE BRIDGE**  
OVER THE  
**DEQUINDRE CUT GREENWAY**

STATE BRIDGE NO.: S02 of 82-22-97

JOB NO.: 83945A

CONTROL SECTION NO.: BRO 82022

FEDERAL PROJECT NO.: BRO 0782 (068)

FEDERAL ITEM NO.: RR 5680

**GENERAL NOTES**

THE DESIGN OF THIS STRUCTURE IS BASED ON CURRENT AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES HS20-44 LOADING. LIVE LOAD PLUS IMPACT DEFLECTION DOES NOT EXCEED 1/1000 OF SPAN LENGTH. THE LOAD FACTOR METHOD OF DESIGN WAS USED FOR THIS STRUCTURE.

EXCEPT WHERE OTHERWISE INDICATED ON THESE PLANS, OR IN THE PROPOSAL AND SUPPLEMENTAL SPECIFICATIONS CONTAINED HEREIN, ALL MATERIALS AND WORKMANSHIP SHALL BE ACCORDING TO THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION 2003 EDITION.

ALL EXPOSED CONCRETE CORNERS SHOWN SQUARE ON THE PLANS SHALL BE BEVELED WITH 1/2" TRIANGULAR MOLDINGS EXCEPT AS OTHERWISE NOTED.

THE PROPOSED IMPROVEMENTS COVERED BY THESE PLANS ARE IN ACCORDANCE WITH THE AASHTO: A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, 2004.

THE DESIGN OF THE STRUCTURAL MEMBERS IS BASED ON MATERIAL OF THE FOLLOWING GRADES AND STRESSES:

CONCRETE: GRADE S2	f'c = 3,000 psi
CONCRETE: GRADE D	f'c = 4,000 psi
STEEL REINFORCEMENT	f <sub>y</sub> = 60,000 psi

**CITY OF DETROIT STANDARD PLANS**

WHERE THE FOLLOWING ITEMS ARE CALLED FOR ON THE PLANS THEY ARE TO BE CONSTRUCTED ACCORDING TO THE STANDARD PLAN GIVEN BELOW OPPOSITE EACH ITEM UNLESS OTHERWISE INDICATED AS INCLUDED IN THE PROPOSAL.

STANDARD CURB DETAILS	C-4380
DETAIL OF ALLEY RETURN AND DRIVE APPROACH	C-4384
STANDARD SEWER AND DROP MANHOLES	C-4387
MANHOLE FRAME AND COVER	C-4391
FLAT TYPE GRATE AND FRAME	C-4392
DOMED GRATE AND FRAME	C-4394
STANDARD CATCH BASINS "A" AND "B" AND FLAT GRATE AND FRAME	C-5028

**MDOT STANDARD PLANS**

WHERE THE FOLLOWING ITEMS ARE CALLED FOR ON THE PLANS THEY ARE TO BE CONSTRUCTED ACCORDING TO THE STANDARD PLAN GIVEN BELOW OPPOSITE EACH ITEM UNLESS OTHERWISE INDICATED.

DRIVEWAY OPENINGS & APPROACHES AND CONCRETE SIDEWALKS	R-29-D
INTEGRAL CURB AND INTEGRAL CURB & GUTTER	R-31-C
TEMPORARY CONCRETE BARRIER	R-52-E
CHAIN LINK FENCE (USING TENSION WIRE)	R-98-B
MOLDING, BEVEL, LIGHT STANDARD ANCHOR BOLT ASSEMBLY AND NAME PLATE DETAILS	B-103-D

**MDOT SPECIAL DETAILS**

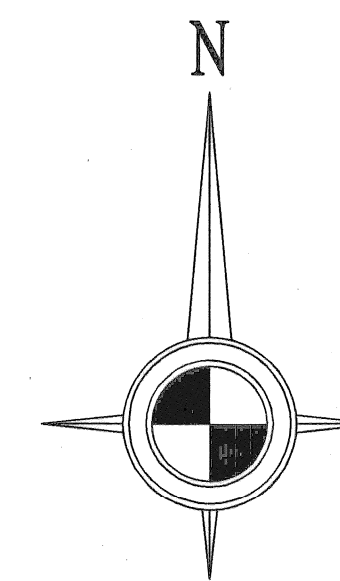
WHERE THE FOLLOWING ITEMS ARE CALLED FOR ON THE PLANS THEY ARE TO BE CONSTRUCTED ACCORDING TO THE SPECIAL DETAIL GIVEN BELOW OPPOSITE EACH ITEM UNLESS OTHERWISE INDICATED.

SIDEWALK RAMP DETAILS	R-28-F
SOIL EROSION & SEDIMENTATION CONTROL MEASURES	R-96-D
PLACEMENT OF TEMPORARY CONCRETE BARRIER	R-126-F
BRIDGE RAILING, AESTHETIC PARAPET TUBE	B-25-E

\*SEE WZD-125-D FOR TEMPORARY TRAFFIC CONTROL DEVICE DETAILS.

**TITLE SHEET LEGEND**

PROPOSED BRIDGE PROJECT	
EXISTING ROADS	
CITY STREET	
COUNTY	
STATE ROUTES	
FEDERAL DIVIDED ROUTES	
FEDERAL DIVIDED INTERSTATE ROUTES	
SECTION LINE	
CITY, VILLAGE OR TOWNSHIP LIMITS	
RAILROADS	



CITY OF DETROIT

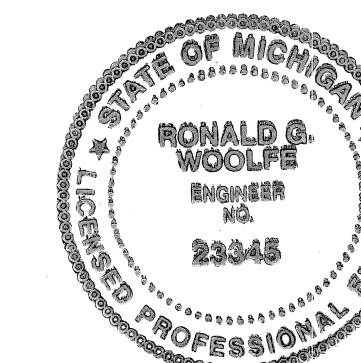
PROJECT LOCATION  
S02 of 82-22-97

TRAFFIC DATA:

	YEAR	YEAR
	1997	2026
ADT	1,433	2,545
DHV	143	255
COMM%	5.0%	5.0%
DESIGN SPEED		25 MPH
POSTED SPEED		25 MPH

CONTRACT FOR: STRUCTURE REPLACEMENT, RELATED APPROACH WORK, AND TRAFFIC IMPROVEMENTS FOR ANTIETAM AVENUE OVER THE DEQUINDRE CUT GREENWAY

BRIDGE PLANS WERE PREPARED FOR THE CITY OF DETROIT  
CITY ENGINEERING DEPARTMENT  
BY



*Ronald B. Woolpe*  
LICENSED PROFESSIONAL ENGINEER

5/15/07  
DATE



LOCAL AUTHORITY APPROVAL  
CITY OF DETROIT  
CITY ENGINEERING DIVISION  
DEPARTMENT OF PUBLIC WORKS

APPROVED BY \_\_\_\_\_ HEAD ENGINEER DATE \_\_\_\_\_

APPROVED BY *[Signature]* CITY ENGINEER DATE 5/15/07

PREPARED UNDER THE SUPERVISION OF

*R. J. Flannery*  
LICENSED PROFESSIONAL ENGINEER

5-17-07  
DATE

CITY OF DETROIT  
ORGANIZATION

CITY ENGINEERING DIVISION  
900 CADILLAC TOWER  
DETROIT, MI 48226

ADDRESS



CONTROL SECTION	JOB NUMBER	FEDERAL NUMBERS		SHEET NO.
		PROJECT	ITEM	
BRO 82022	83945A	BRO 0782 (068)	RR 5680	1

BRO 82022-83945A

CONTROL SECTION — JOB NUMBER

DATE: 9/7/06

CORRECTED BY: TNB

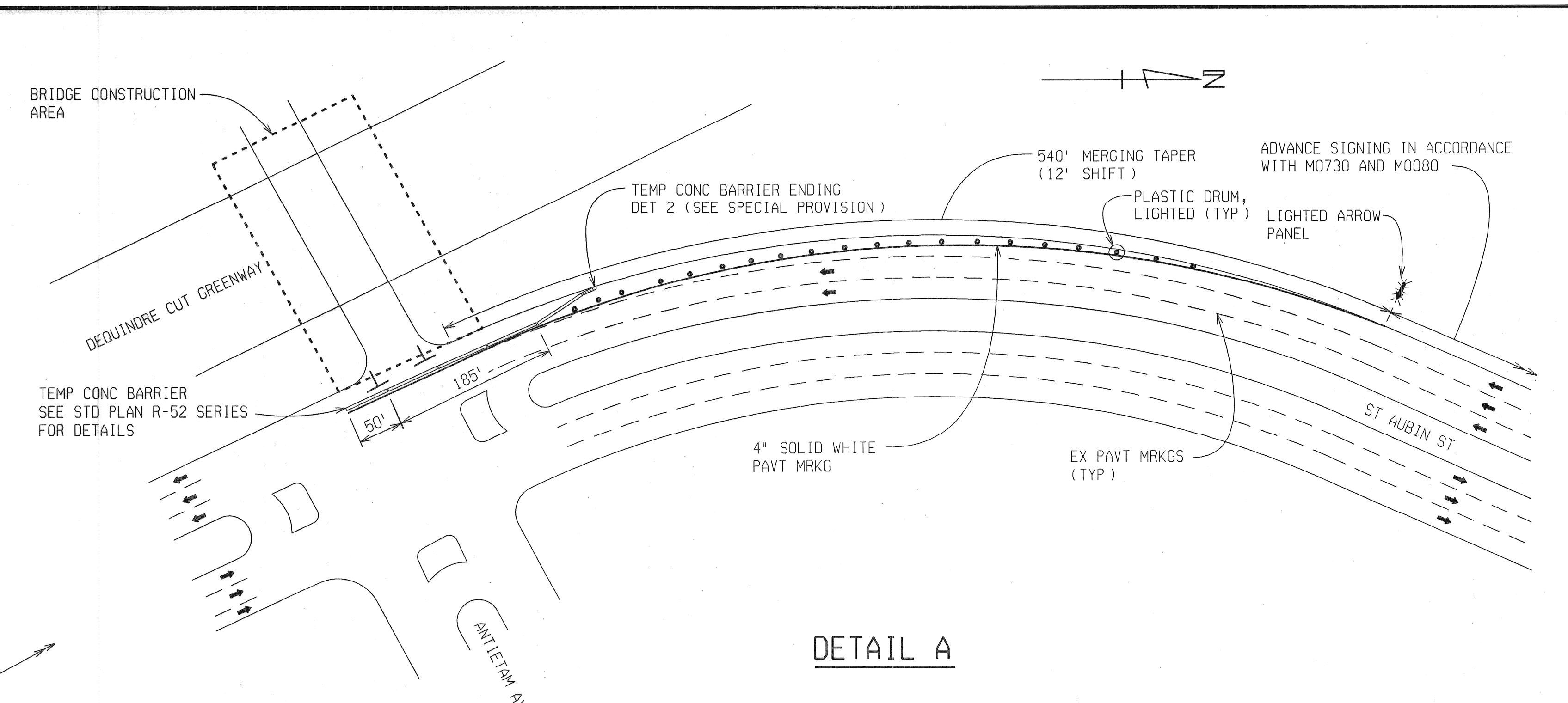
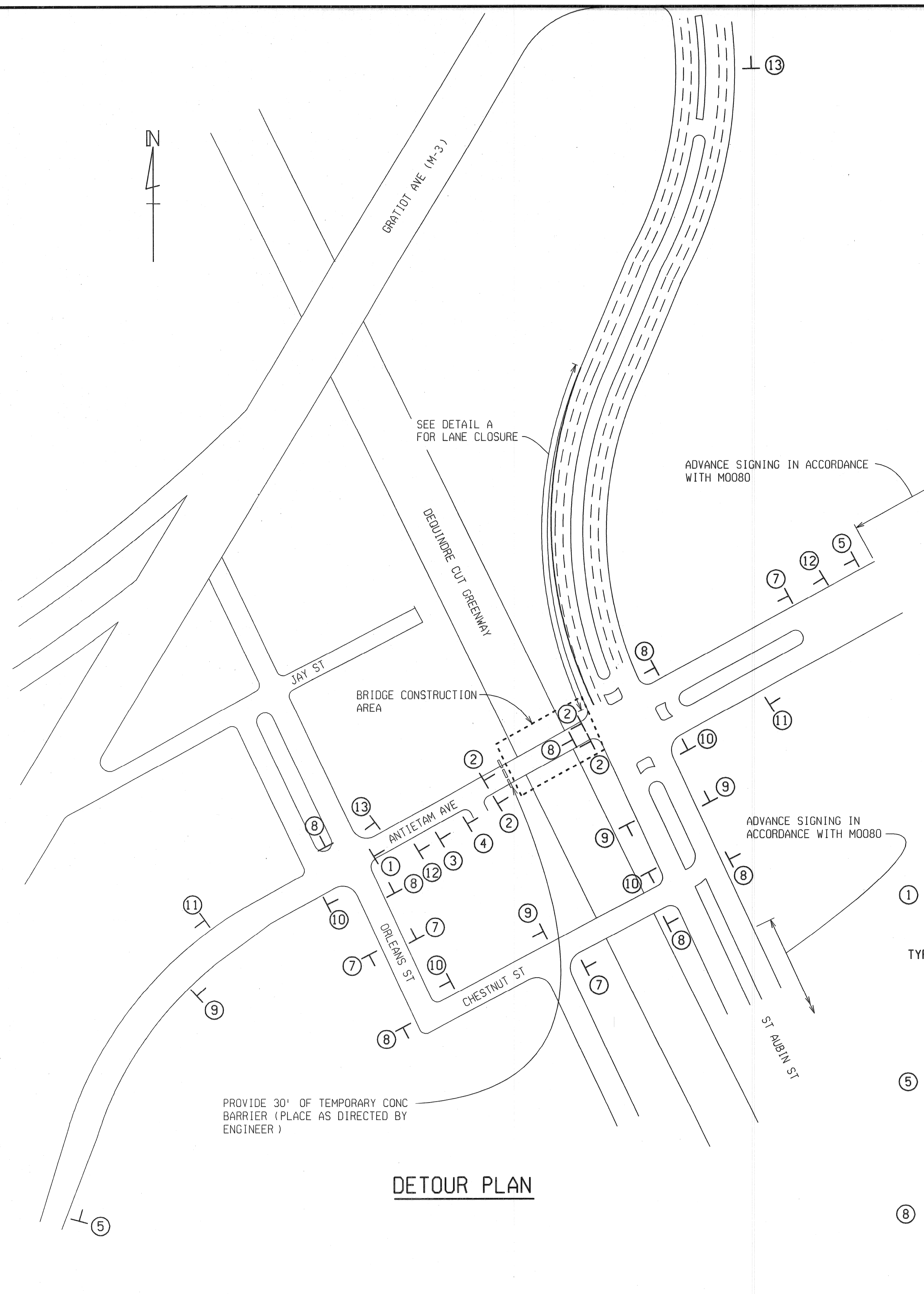
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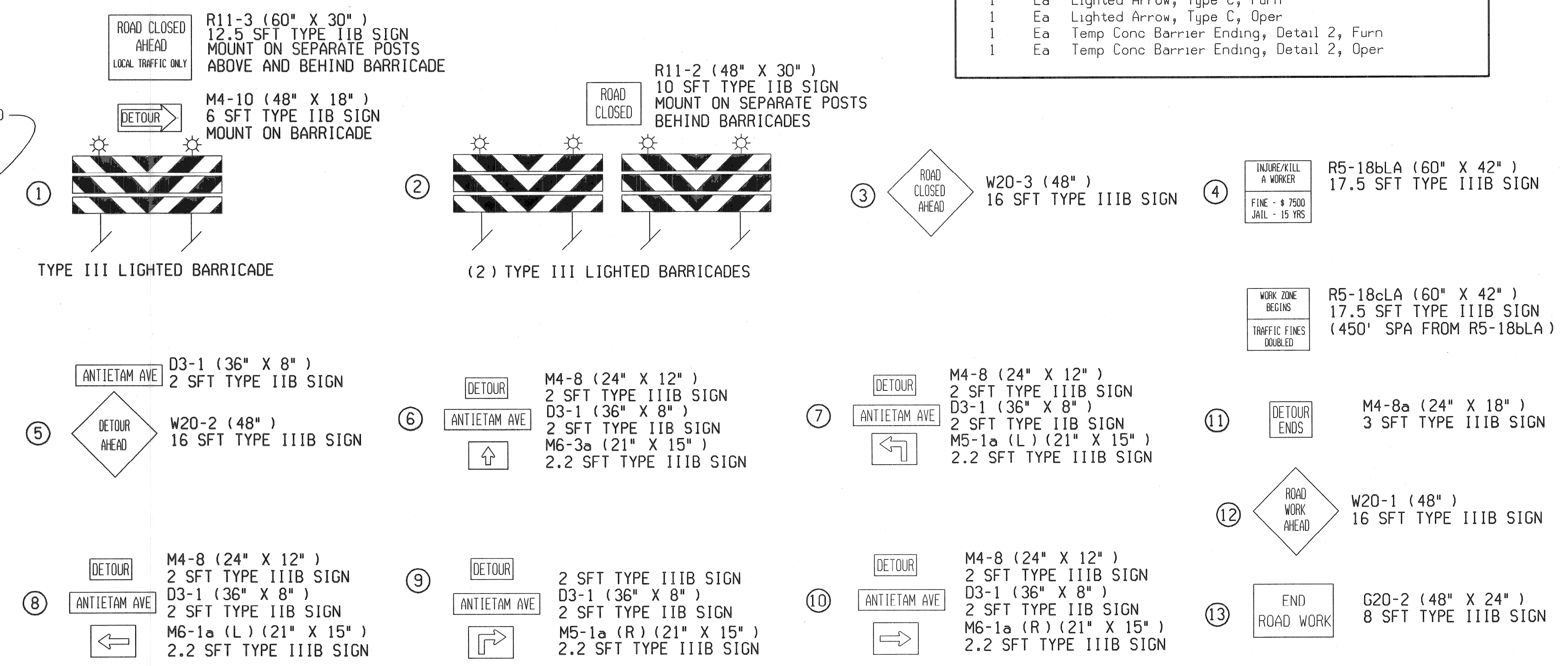
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FILE NAME: Antietam-title.dgn





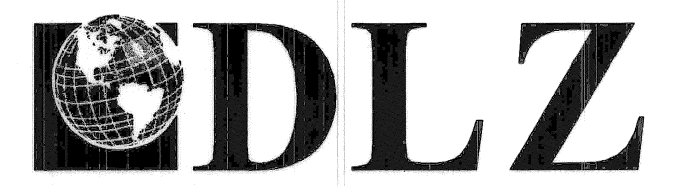
MISCELLANEOUS QUANTITIES		
9	Ea	Barricade, Type III, High Intensity, Lighted, Furn
9	Ea	Barricade, Type III, High Intensity, Lighted, Oper
1	LS	Minor Traf Devices
660	Sft	Sign, Type B, Temp, Prismatic, Furn
660	Sft	Sign, Type B, Temp, Prismatic, Oper
25	Ea	Plastic Drum, High Intensity, Lighted, Furn
25	Ea	Plastic Drum, High Intensity, Lighted, Oper
680	Ft	Pavt Mrkg, Type R, 4 inch, White, Temp
300	Ft	Conc Barrier, Temp, Furn
300	Ft	Conc Barrier, Temp, Oper
1	Ea	Lighted Arrow, Type C, Furn
1	Ea	Lighted Arrow, Type C, Oper
1	Ea	Temp Conc Barrier Ending, Detail 2, Furn
1	Ea	Temp Conc Barrier Ending, Detail 2, Oper



PROVIDE 30' OF TEMPORARY CONC BARRIER (PLACE AS DIRECTED BY ENGINEER)

**DETOUR PLAN**

REVISIONS	DESCRIPTION	DATE	BY



**CITY OF DETROIT**

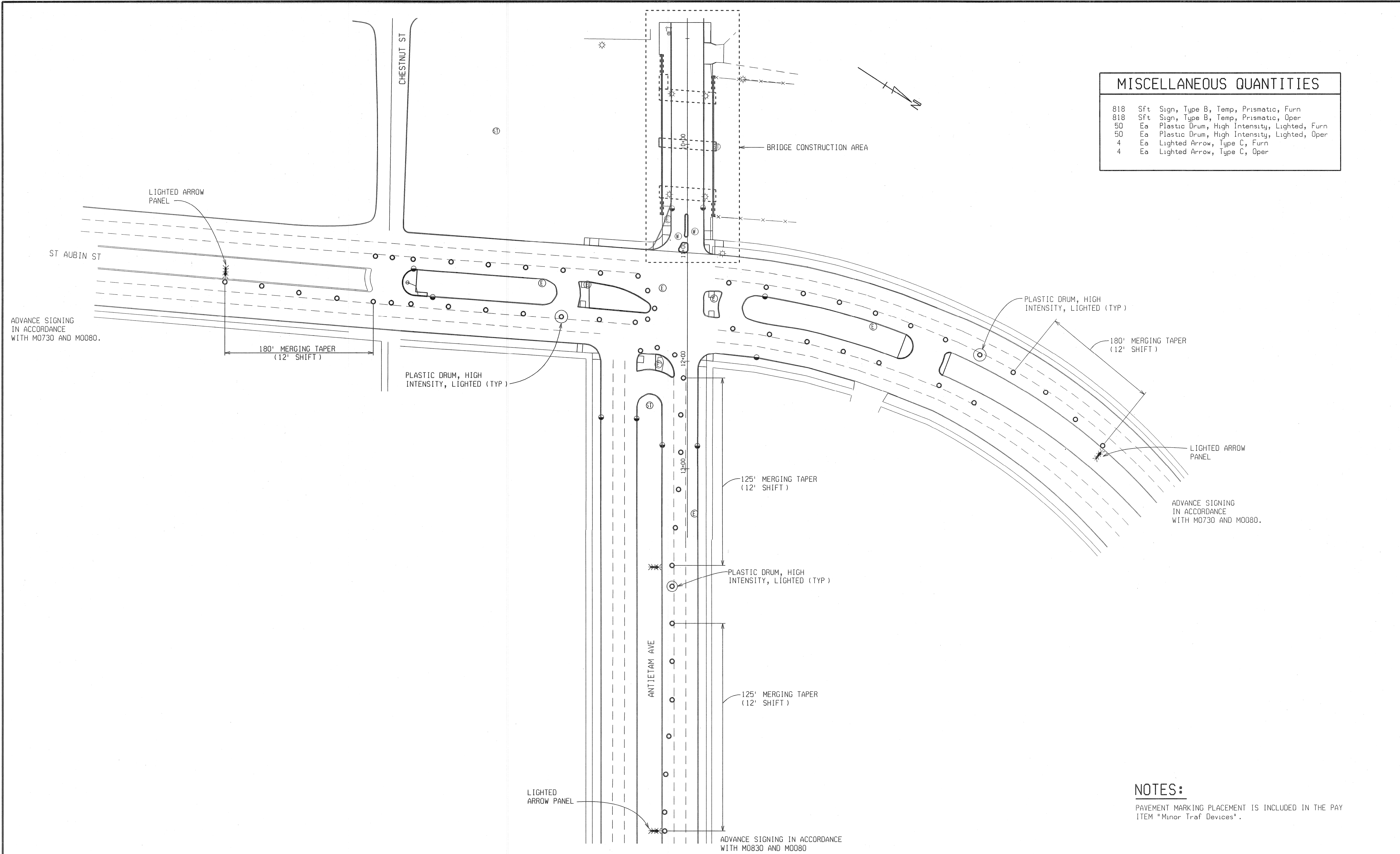
**ANTIETAM AVENUE OVER DEQUINDRE CUT GREENWAY**  
MDOT JOB NO. 83945A STRUCTURE NO. S02 of 82-22-97

**DETOUR ROUTE**

DATE: 4/13/07  
DLZ JOB NO. 0641-6053-00  
SHEET NO. 2 OF 48

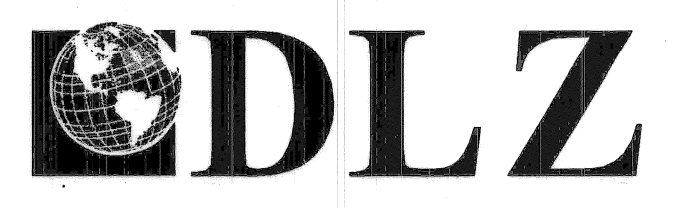


MISCELLANEOUS QUANTITIES		
818	Sft	Sign, Type B, Temp, Prismatic, Furn
818	Sft	Sign, Type B, Temp, Prismatic, Oper
50	Ea	Plastic Drum, High Intensity, Lighted, Furn
50	Ea	Plastic Drum, High Intensity, Lighted, Oper
4	Ea	Lighted Arrow, Type C, Furn
4	Ea	Lighted Arrow, Type C, Oper



**NOTES:**  
 PAVEMENT MARKING PLACEMENT IS INCLUDED IN THE PAY ITEM "Minor Traf Devices".

REVISIONS	DESCRIPTION	DATE	BY



ANTIETAM AVENUE OVER  
 DEQUINDRE CUT GREENWAY  
 MDOT JOB NO. 83945A    STRUCTURE NO. S02 of 82-22-97

CONSTRUCTION STAGING DETAILS

DATE:	4/13/07
DLZ JOB NO.	0641-6053-00
SHEET NO.	3 OF 48



**WITNESSES**

WITNESSES TO CP2: 2 INCH MAGNAIL SET IN HMA NEAR C ANTINETAM AVENUE 100 FT WEST OF BRIDGE  
 NORTHING: 5048.11 EASTING: 10083.24  
 STA 8+58.28 ; OFF 5.06 FT LT

S 80° E TOP CENTER FIRE HYDRANT 40.1 FT  
 S 30° E NW CORNER OF CATCH BASIN 16.45 FT  
 S 40° W CENTER LIGHT POLE 58.1 FT  
 N 30° W NE CORNER OF CATCH BASIN 6.2 FT

WITNESSES TO CP3: 2 INCH MAGNAIL FOUND IN CONCRETE ISLAND AT EAST SIDE OF ANTIETAM & ST. AUBIN INTERSECTION  
 NORTHING: 5193.9426 EASTING: 10395.8944  
 STA 12+01.62 ; OFF 29.25 FT RT

N 10° E CENTER LIGHT MANHOLE 2.3 FT  
 N 70° E BACK OF CURB 6.2 FT  
 S 20° E BACK OF CURB 17.7 FT  
 S 70° W BACK OF CURB 7.65 FT

**BENCH MARKS**

BM 100 EL - 138.85  
 ARROW AT TOP OF FIRE HYDRANT IN NORTH MEDIAN OF INTERSECTION OF ANTIETAM AVENUE AND ORLEANS STREET

NORTHING: 4975.19 EASTING: 9878.88  
 STATION: 6+45.33 ; OFFSET: 46.76 FT LT

BM 200 EL - 138.29  
 DETROIT MONUMENT 39-357 FOUND IN NORTHEAST QUADRANT OF ANTIETAM AVENUE AND ST. AUBIN STREET

NORTHING: 5237.38 EASTING: 10371.44  
 STATION: 12+02.71 ; OFFSET: 20.61 FT LT

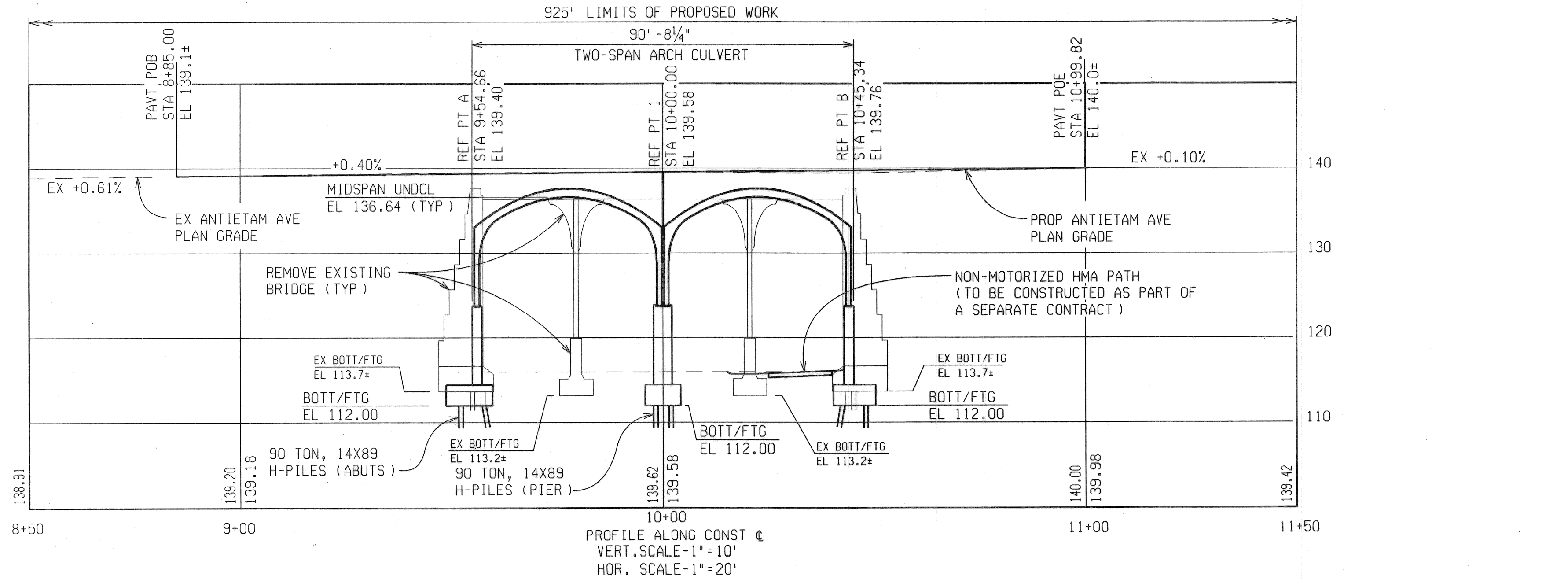
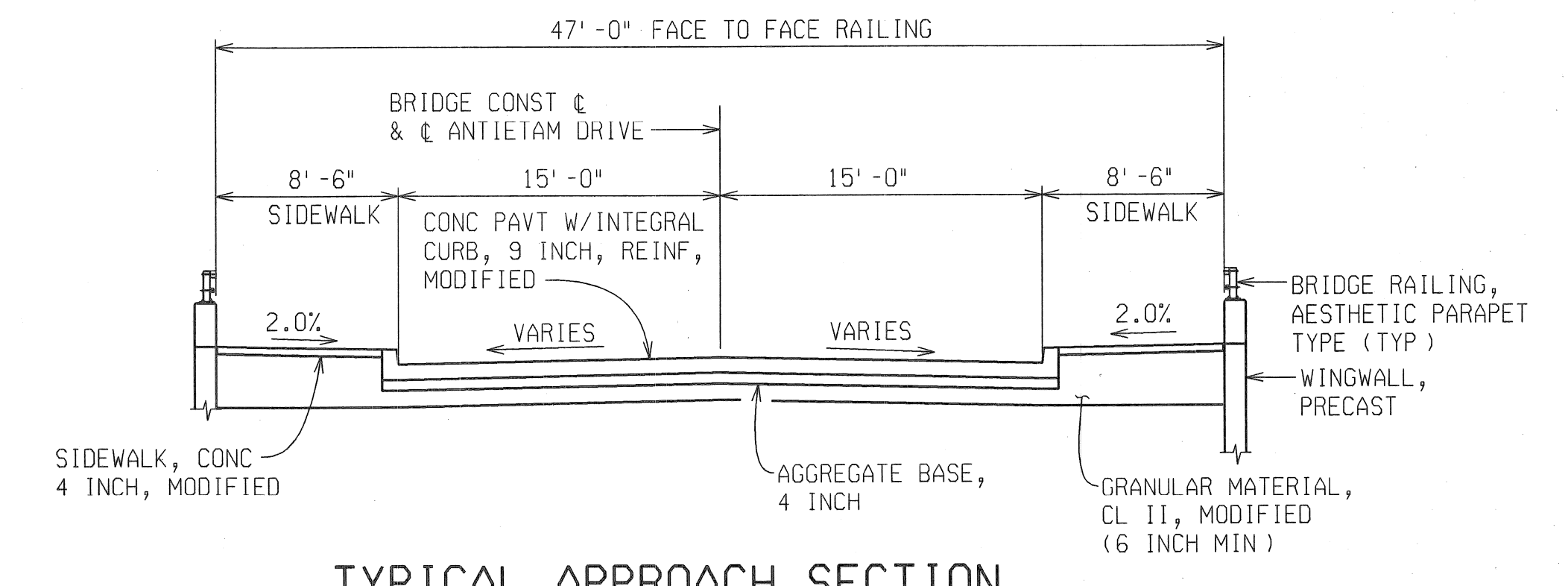
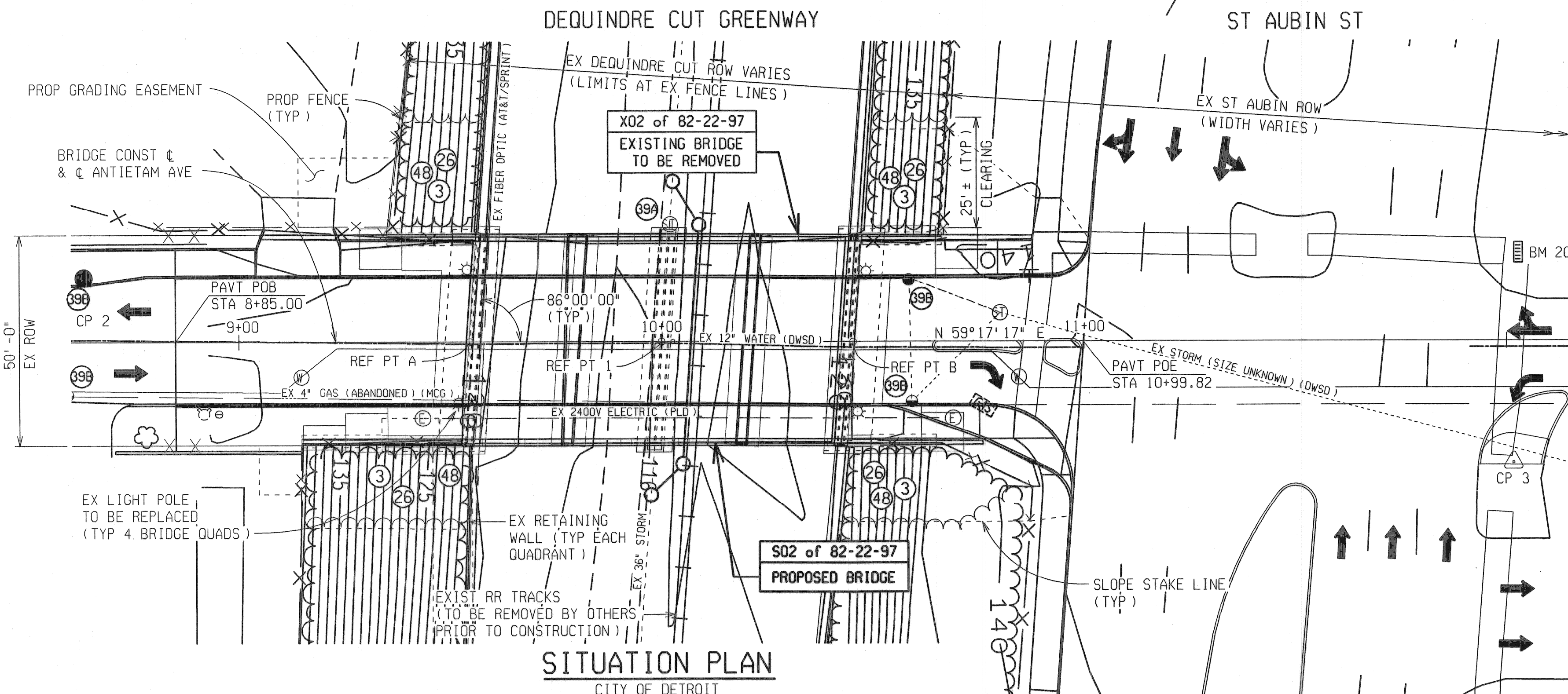
**EXISTING STRUCTURE**

THE EXISTING STRUCTURE IS A 3 SPAN BRIDGE WITH A TOTAL SPAN LENGTH OF 85 FEET. THE EXISTING SUPERSTRUCTURE CONSISTS OF CONCRETE ENCASED ROLLED STEEL BEAMS. THE ABUTMENTS ARE ON PILES AND THE PIERS ARE ON SPREAD FOOTINGS. THE BRIDGE WAS BUILT IN 1930.

**EROSION AND SEDIMENTATION CONTROL MEASURES**

	KEY NO.
* 100 Ft Erosion Control, Silt Fence	26
4 Ea Erosion Control, Inlet Protection, Fabric Drop	99A
4 Ea Erosion Control, Inlet Protection, Geotextile and Stone	99B
200 Syd Slope Restoration	3
200 Syd Mulch Blanket	4B

\* PLACE AS DIRECTED BY THE ENGINEER



**UTILITIES**

**ELECTRIC, LIGHTING**  
 CITY OF DETROIT, PUBLIC LIGHTING DEPT (PLD)  
 9449 GRINNELL  
 DETROIT, MI 48213  
 ATTN: STAN TOPOLEWSKI  
 PHONE NO.: (313) 267-7228

**WATER, SEWER**  
 CITY OF DETROIT  
 DETROIT WATER & SEWERAGE DEPT (DWSO)  
 J MADISON BLDG  
 1420 WASHINGTON BLVD., SUITE 100  
 DETROIT, MI 48226  
 ATTN: MICHAEL KUBIAN  
 PHONE NO.: (313) 967-1508

**GAS**  
 DTE ENERGY  
 MICHIGAN CONSOLIDATED GAS CO. (MCG)  
 MAIN REPLACEMENT TEAM, 2ND FLOOR  
 3200 HOBSON  
 DETROIT, MI 48201  
 ATTN: PAUL HARTMAN  
 PHONE NO.: (313) 577-7236

**FIBER OPTIC**  
 AT&T  
 2152 S. 114TH STREET  
 WEST ALLIS, WI 53227  
 ATTN: JOHN KOTZ  
 PHONE NO.: (414) 290-8927

**FIBER OPTIC**  
 SPRINT  
 5600 NORTH RIVER ROAD  
 ROSEMONT, IL 60018  
 ATTN: GERRY CRAIN  
 PHONE NO.: (847) 318-3010

**NOTES:**

THE WORK COVERED BY THESE PLANS INCLUDES CLEARING, GRUBBING, EARTH EXCAVATION, MAINTAINING TRAFFIC, TRAFFIC IMPROVEMENTS, REMOVAL OF THE EXISTING BRIDGE, CONSTRUCTION OF THE PROPOSED BRIDGE AND APPROACHES TO THE LIMITS SHOWN.

THE CONTRACTOR SHALL LOCATE ALL ACTIVE UNDERGROUND UTILITIES PRIOR TO STARTING WORK AND SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER AS TO ENSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED.

ANTIETAM AVENUE TRAFFIC IS TO BE DETOURED OVER OTHER EXISTING ROADS.

PLAN ELEVATIONS REFER TO CITY OF DETROIT DATUM.

TOPOGRAPHY SHOWN HERE REPRESENTS CONDITIONS EXISTING AT THE TIME THE FIELD SURVEY WAS MADE. HOWEVER, THESE CONDITIONS MAY HAVE BEEN MATERIALLY ALTERED BY THE OPERATIONS OF OTHERS PRIOR TO THIS CONTRACT.

<b>REVISIONS</b> DESCRIPTION DATE BY					ANTIETAM AVENUE OVER DEQUINDRE CUT GREENWAY MDOT JOB NO. 83945A STRUCTURE NO. S02 of 82-22-97		GENERAL PLAN OF SITE		DATE: 4/13/07
									DLZ JOB NO. 0641-6053-00
									SHEET NO. 4 OF 48

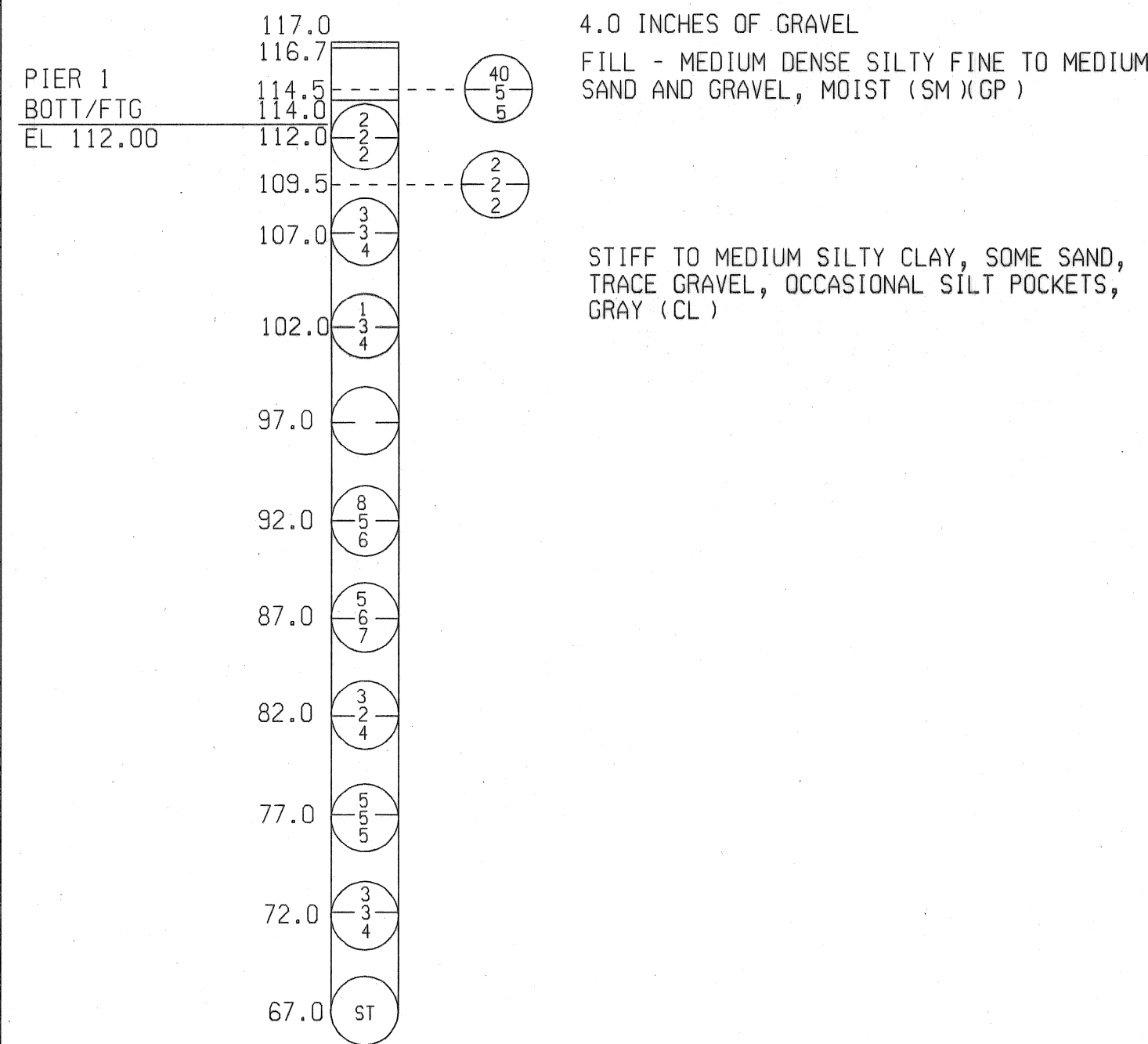
DATE: 9/7/06  
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 DATE: 05/18/06  
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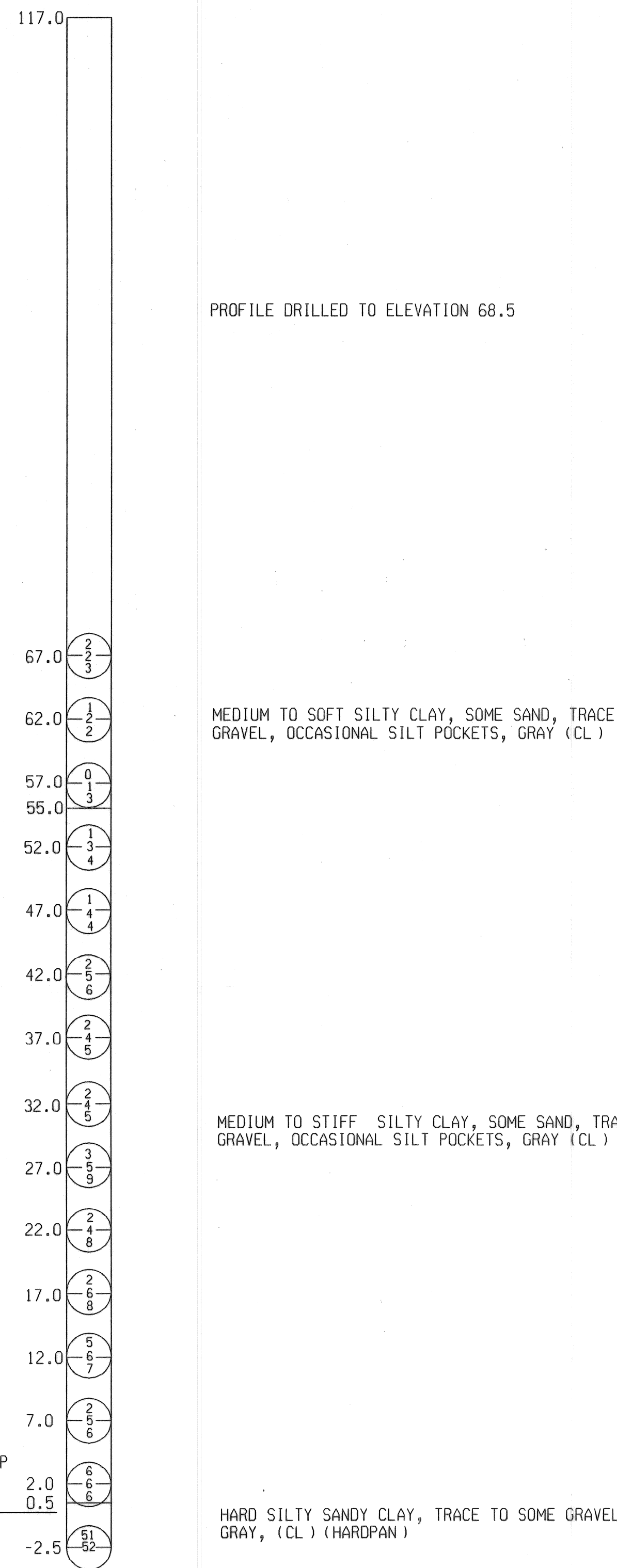


ELE. TEST BORING NO. B-3  
GROUND SURFACE ELEVATION: 117.0 FT.



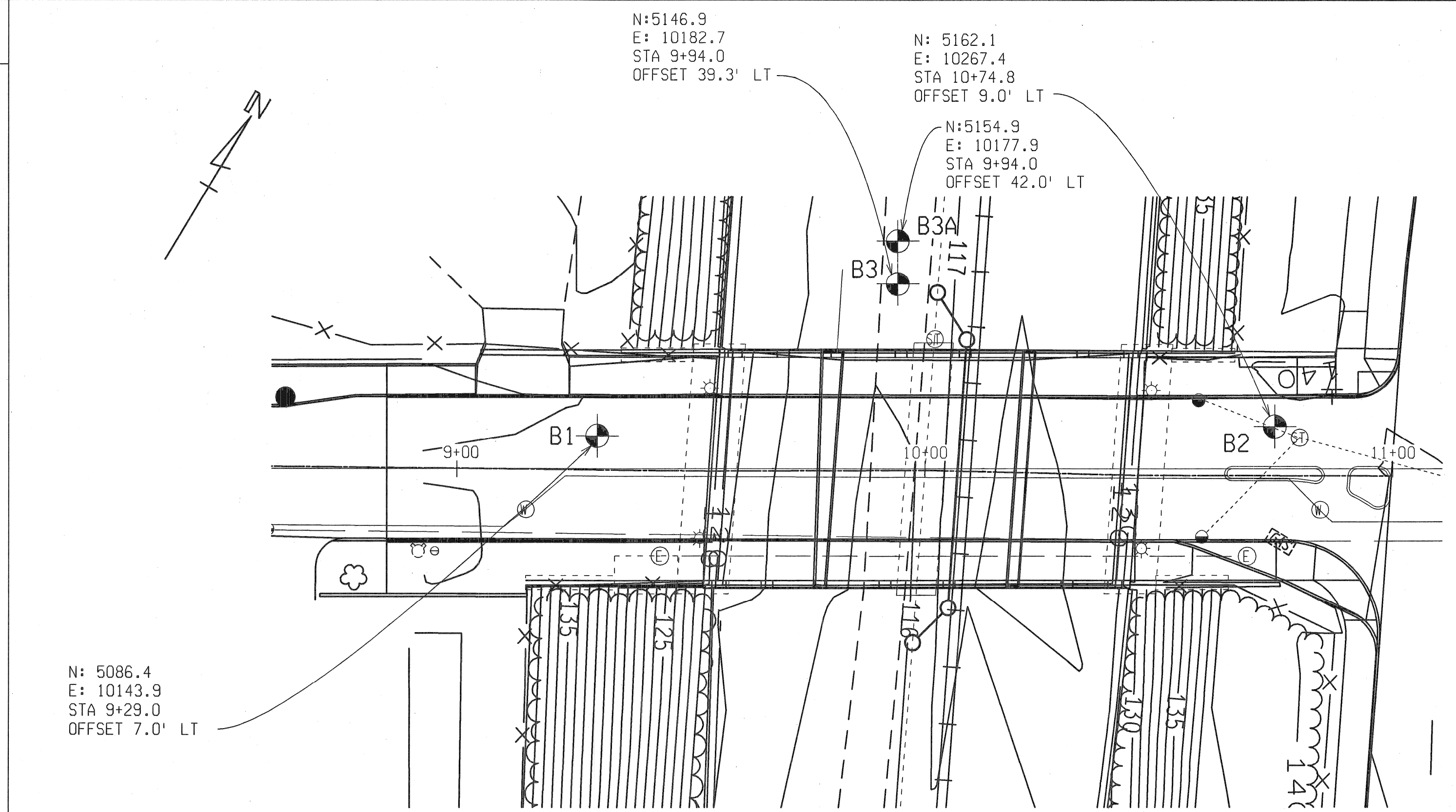
HOLE CAVED IN AT ELEVATION 68.5  
END OF BORING AT ELEVATION 67  
BORING DATE: 6-12-06  
NO GROUNDWATER ENCOUNTERED DURING DRILLING  
NO GROUNDWATER REPORTED UPON COMPLETION OF DRILLING

ELE. TEST BORING NO. B-3A  
GROUND SURFACE ELEVATION: 117.0 FT.



ESTIMATED PILE TIP AND MINIMUM PILE PENETRATION EL 0.00±

END OF BORING AT ELEVATION -2.5  
BORING DATE: 6-13-06  
NO GROUNDWATER ENCOUNTERED DURING DRILLING  
NO GROUNDWATER REPORTED UPON COMPLETION OF DRILLING



LOCATION DIAGRAM  
SCALE: 1"=20'

0 0 0  
1ST 6 INCH  
2ND 6 INCH  
3RD 6 INCH

NOTES:

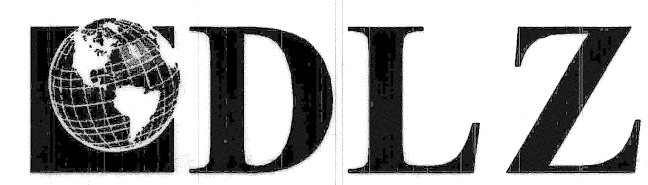
NUMBERS IN CIRCLES DENOTE NUMBER OF BLOWS REQUIRED TO DRIVE A 2" O.D. (1 1/2" I.D.) SPLIT SPOON SAMPLER  
3 SUCCESSIVE 6 inch INCREMENTS USING A 140 lb HAMMER FALLING 2.5 ft.

CONSISTENCY WAS DETERMINED BY INSPECTION OF SAMPLES AND SUBSTANTIATED BY SOILS RESISTANCE TO DRILLING TOOLS.

WATER LEVELS MAY BE INFLUENCED BY RESIDUAL BORING WATER.

THE SOIL BORING LOGS REPRESENT POINT INFORMATION. PRESENTATION OF THIS INFORMATION IN NO WAY IMPLIES THAT SUBSURFACE CONDITIONS ARE THE SAME AT LOCATIONS OTHER THAN THE EXACT LOCATION OF THE BORING.

REVISIONS	DESCRIPTION	DATE	BY



CITY OF DETROIT

ANTIETAM AVENUE OVER DEQUINDRE CUT GREENWAY

MDOT JOB NO. 83945A STRUCTURE NO. S02 of 82-22-97

SOIL BORING LOG

DATE: 4/13/07  
DLZ JOB NO. 0641-6053-00  
SHEET NO. 6 OF 48

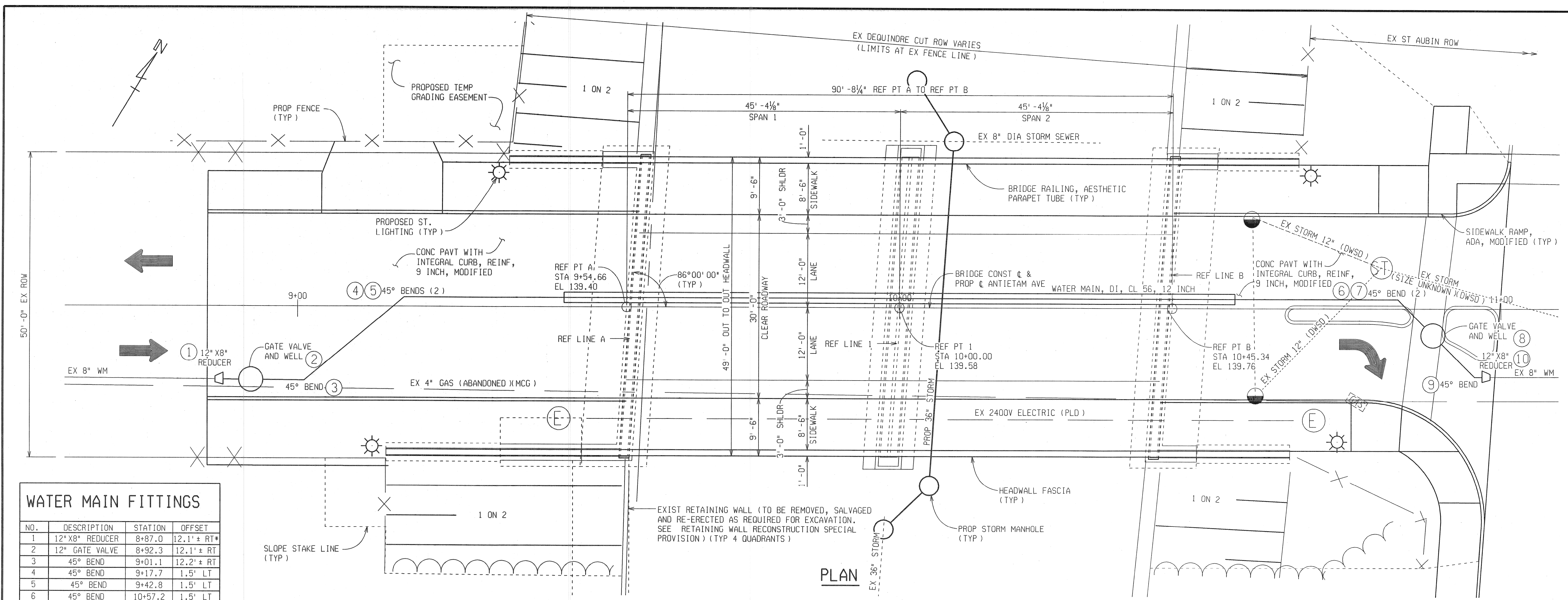
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DATE: 9/11/06  
CORRECTED BY: DLW  
DATE: 9/4/06  
CHECKED BY: BMW  
DATE: 06/15/06  
DRAWN BY: bmw  
FILE NAME: antietam.st.dgn

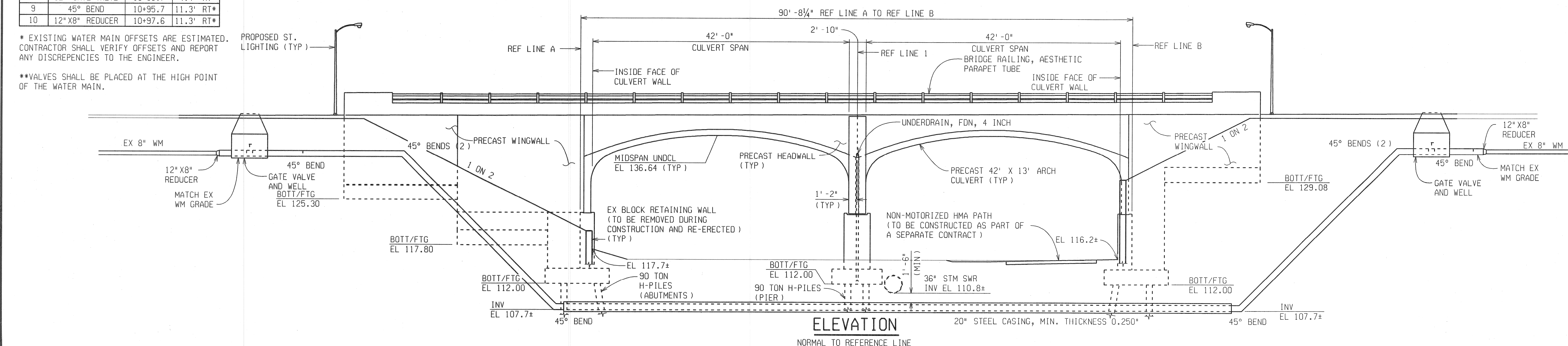


**WATER MAIN FITTINGS**

NO.	DESCRIPTION	STATION	OFFSET
1	12" X 8" REDUCER	8+87.0	12.1' ± RT*
2	12" GATE VALVE	8+92.3	12.1' ± RT
3	45° BEND	9+01.1	12.2' ± RT
4	45° BEND	9+17.7	1.5' LT
5	45° BEND	9+42.8	1.5' LT
6	45° BEND	10+57.2	1.5' LT
7	45° BEND	10+82.9	1.5' LT
8	12" GATE VALVE	10+88.7	4.4' RT
9	45° BEND	10+95.7	11.3' RT*
10	12" X 8" REDUCER	10+97.6	11.3' RT*

\* EXISTING WATER MAIN OFFSETS ARE ESTIMATED. CONTRACTOR SHALL VERIFY OFFSETS AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

\*\* VALVES SHALL BE PLACED AT THE HIGH POINT OF THE WATER MAIN.



REVISIONS	DESCRIPTION	DATE	BY

**DLZ**

**CITY OF DETROIT**

**ANTIETAM AVENUE OVER DEQUINDRE CUT GREENWAY**

MDOT JOB NO. 83945A    STRUCTURE NO. S02 of 82-22-97

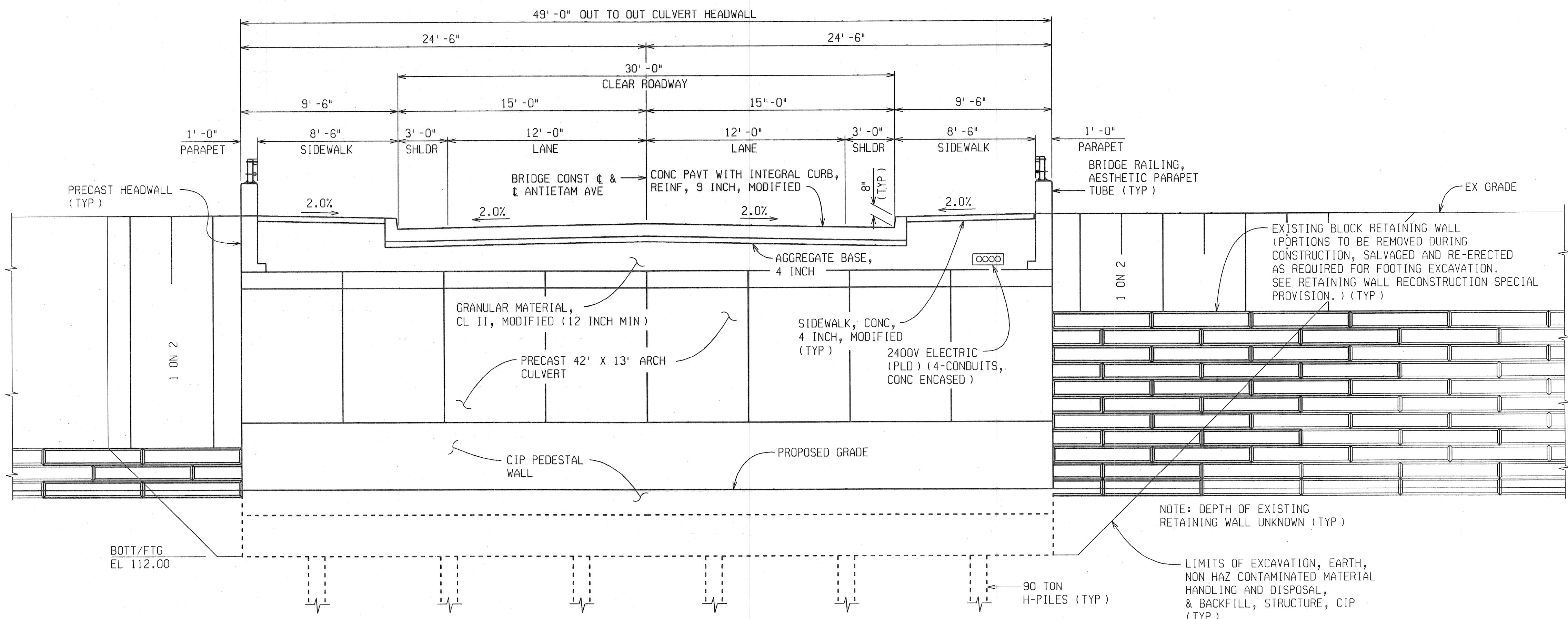
DATE: 4/13/07

DLZ JOB NO. 0641-6053-00

SHEET NO. 7 OF 48

**GENERAL PLAN OF STRUCTURE**

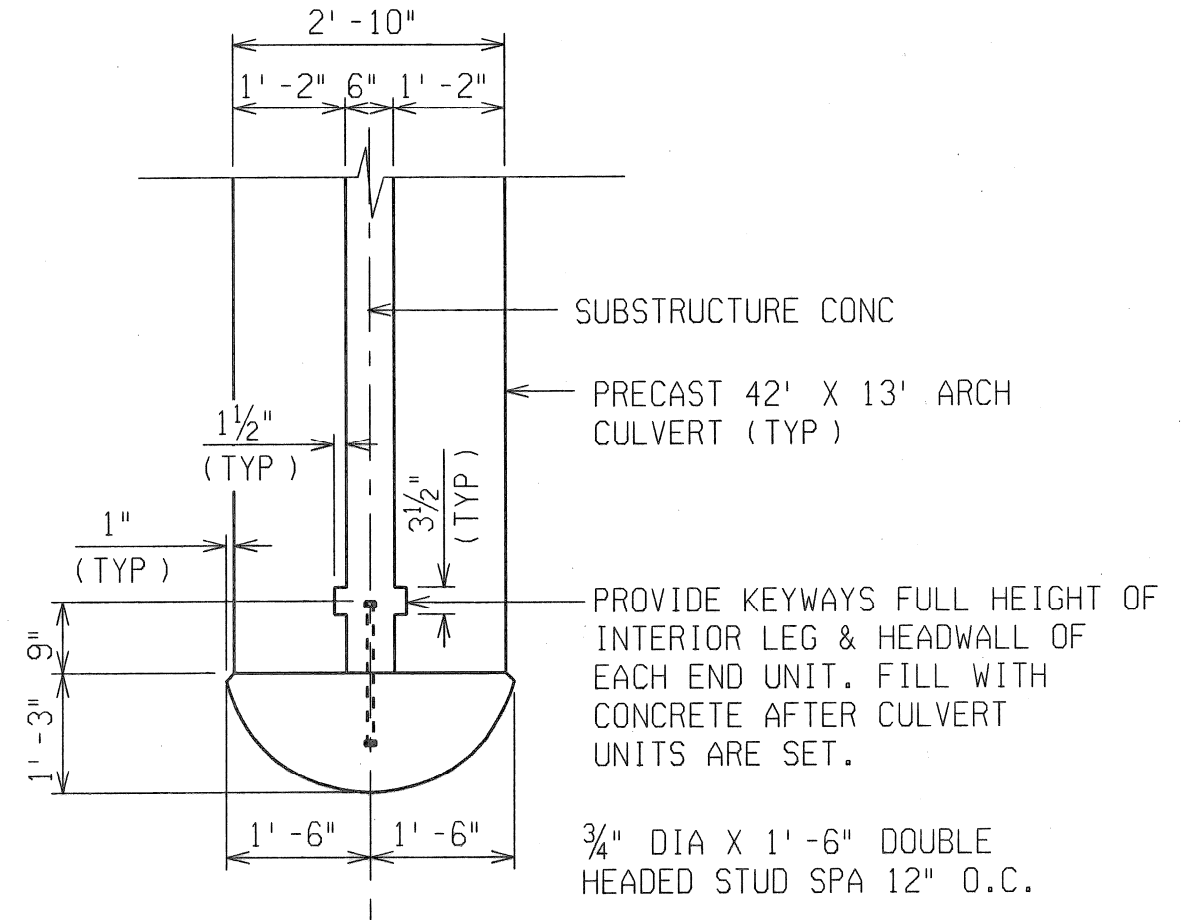




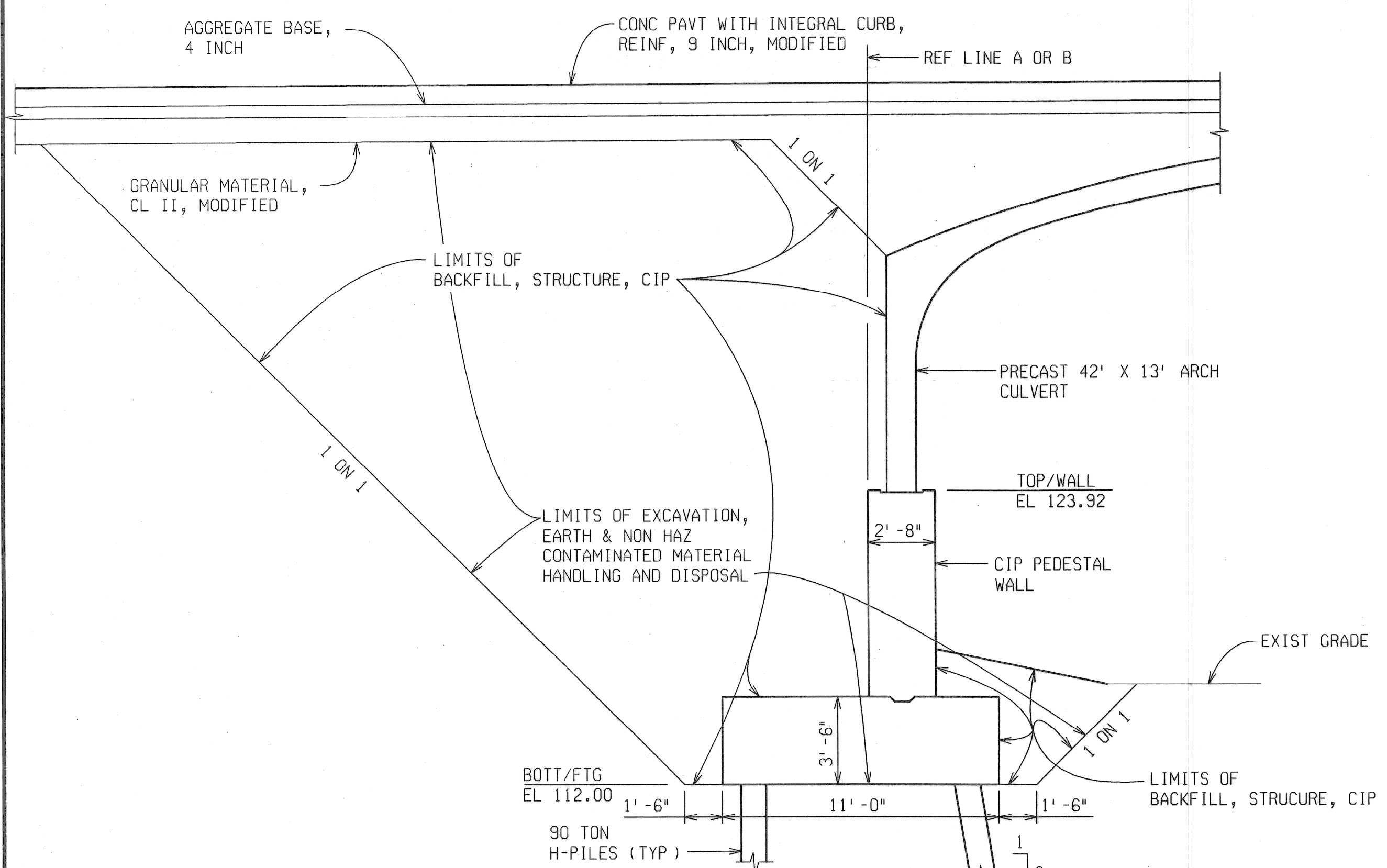
**TYPICAL DECK SECTION**  
LOOKING UPSTATION

MISCELLANEOUS QUANTITIES	
1	LS Structures, Rem
4190	Cyd Backfill, Structure, CIP
2000	Cyd Non Haz Contaminated Material Handling and Disposal
200	Cyd Excavation, Earth
242	Ft Water Main, DI, CI 56, 12 inch
400	Sft Retaining Wall Reconstruction
100	Ft Culv, Precast Three-Sided or Arch, 42 foot by 13 foot, Modified
1228	Sft Wingwall, Precast

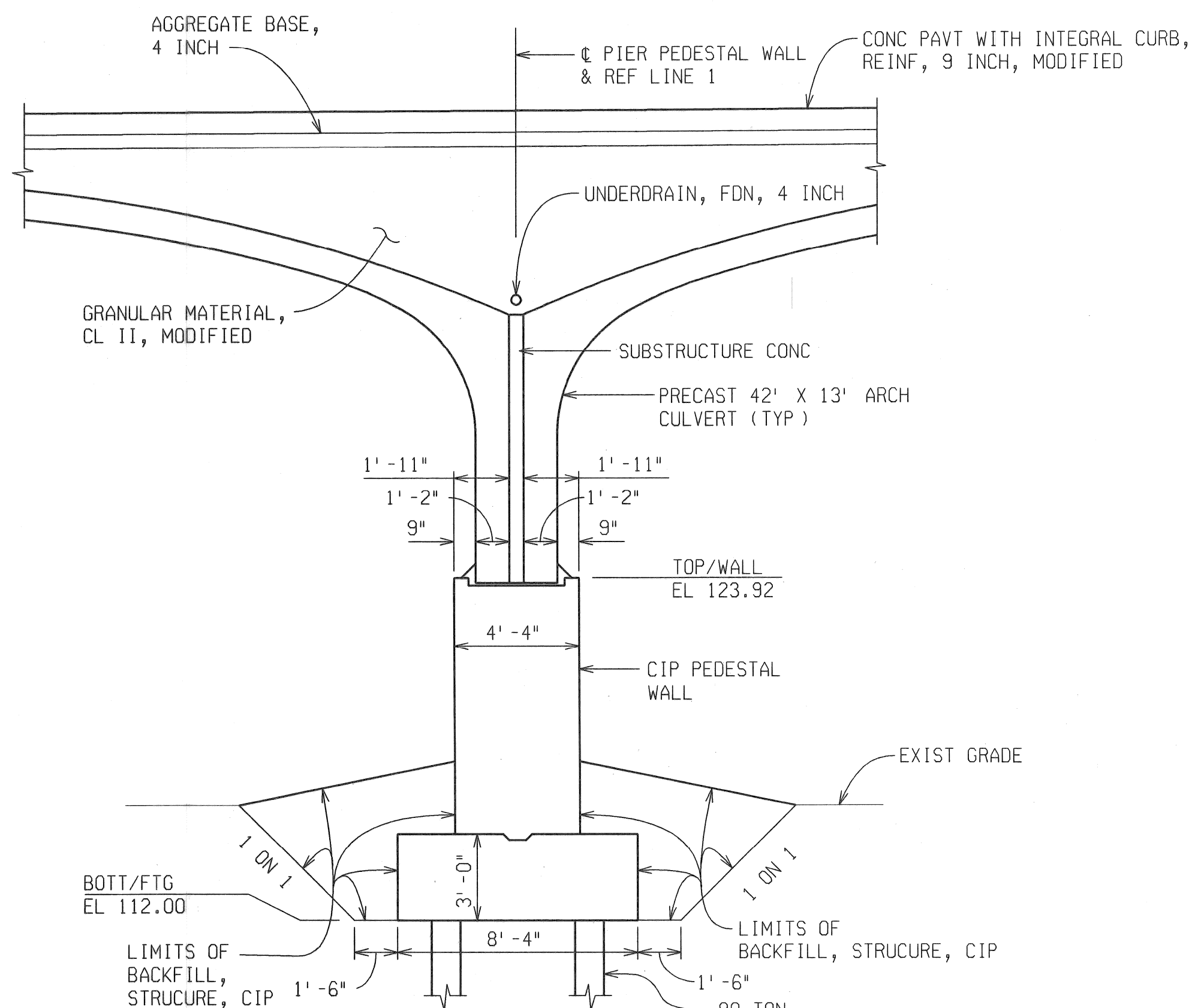
\* AS DIRECTED BY THE ENGINEER



**NOSING DETAIL**



**TYPICAL ABUTMENT SECTION**

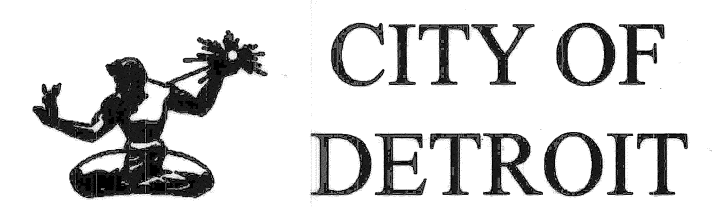
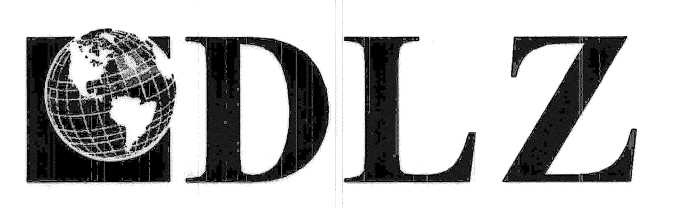


**TYPICAL PIER SECTION**

**NOTES:**

THE DESIGN OF THIS STRUCTURE IS BASED ON CURRENT AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES HS20-44. LIVE LOAD PLUS IMPACT DEFLECTION DOES NOT EXCEED 1/1000 OF SPAN LENGTH. THE LOAD FACTOR METHOD OF DESIGN WAS USED FOR THIS STRUCTURE.  
SEE PIER SHEET 14 OF 48 FOR UNDERDRAIN OUTLET DETAILS.

REVISIONS	DESCRIPTION	DATE	BY

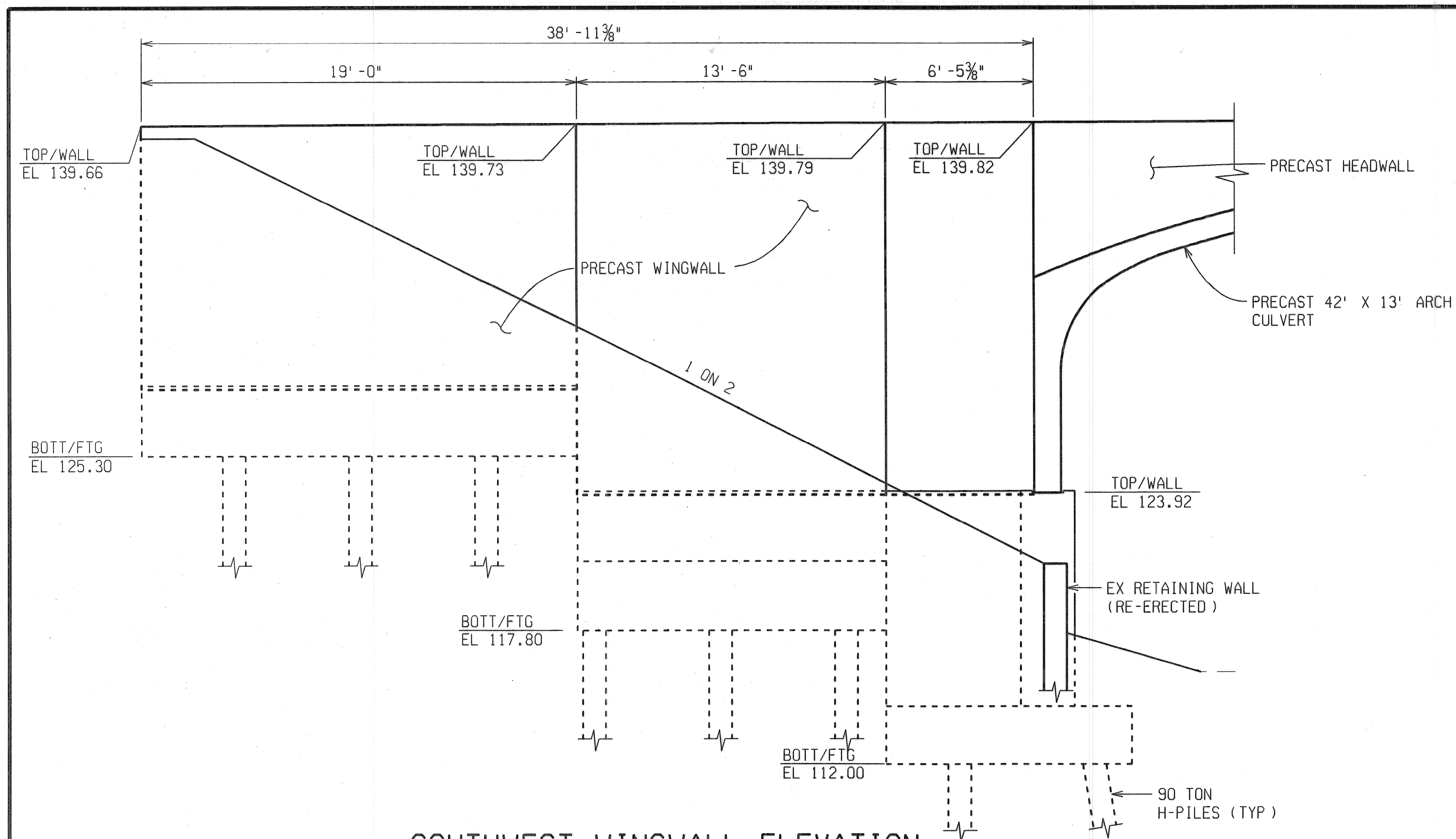


ANTIETAM AVENUE OVER  
DEQUINDRE CUT GREENWAY  
MDOT JOB NO. 83945A STRUCTURE NO. S02 of 82-22-97

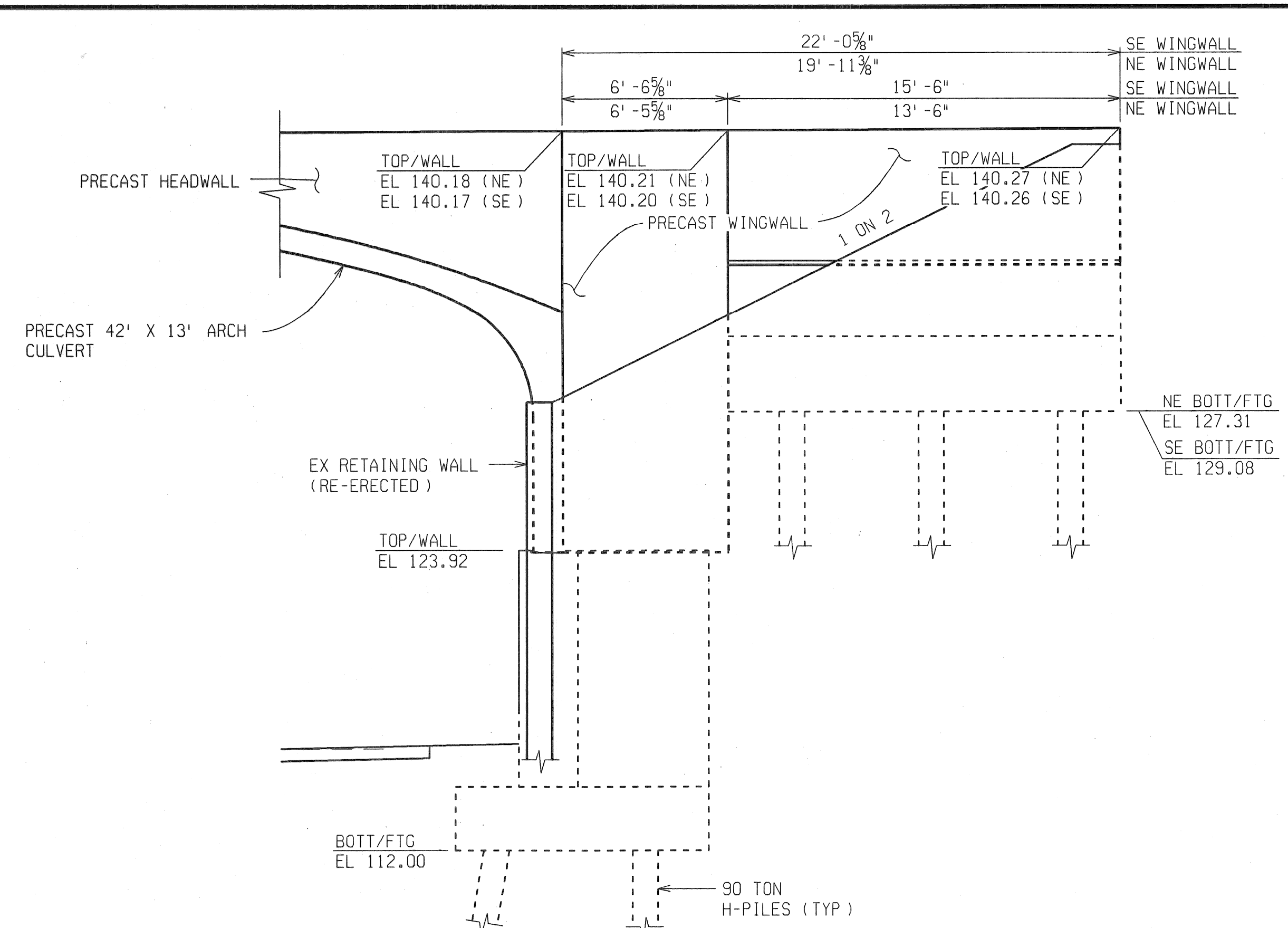
GENERAL PLAN OF STRUCTURE

DATE: 4/13/07  
DLZ JOB NO. 0641-6053-00  
SHEET NO. 8 OF 48

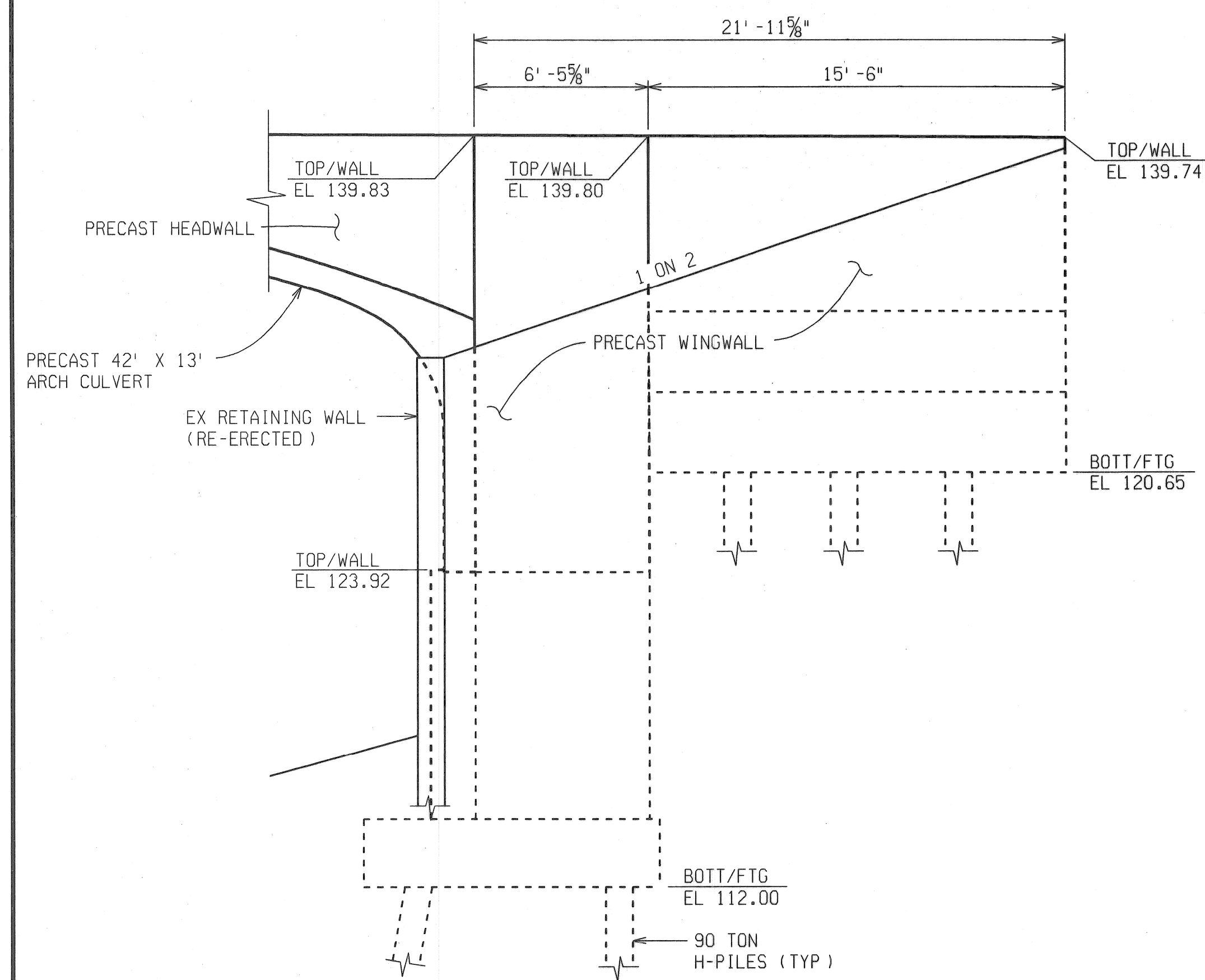
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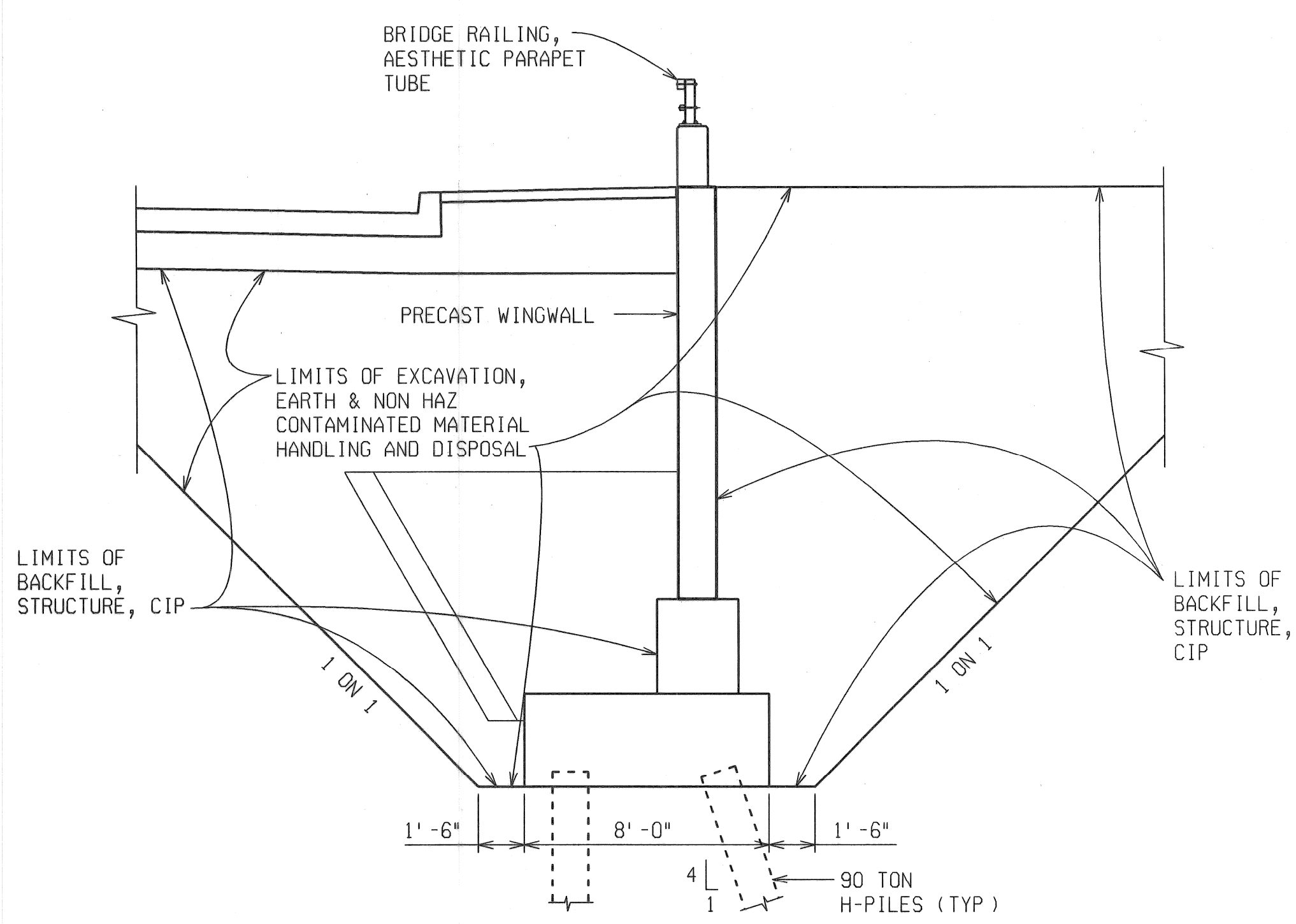
**SOUTHWEST WINGWALL ELEVATION**  
(OUTSIDE ELEVATION OF WINGWALL SHOWN)



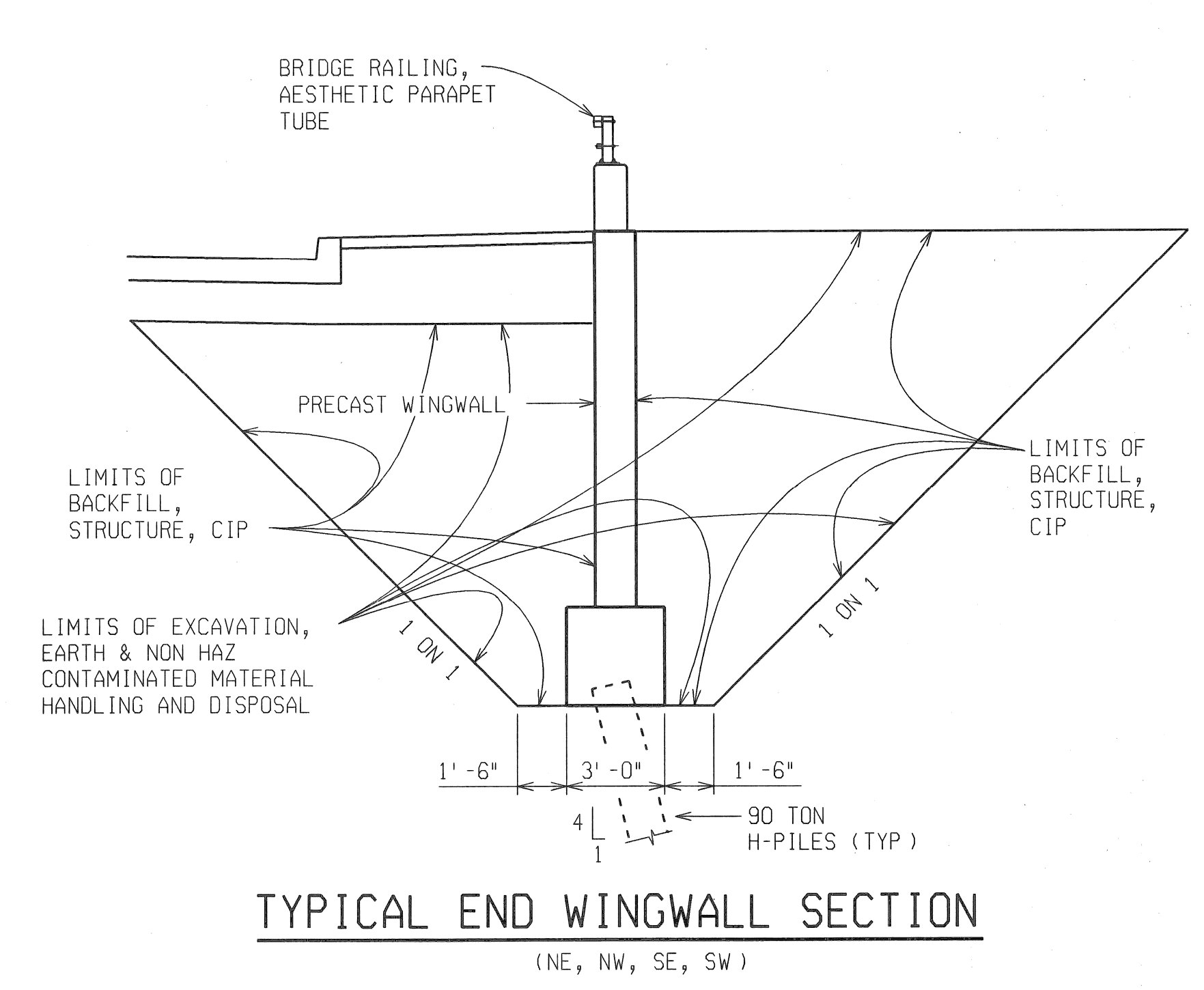
**EAST WINGWALLS ELEVATION**  
(OUTSIDE ELEVATION OF SE WINGWALL SHOWN)  
(INSIDE ELEVATION OF NE WINGWALL SHOWN)



**NORTHWEST WINGWALL ELEVATION**  
(OUTSIDE ELEVATION OF WINGWALL SHOWN)

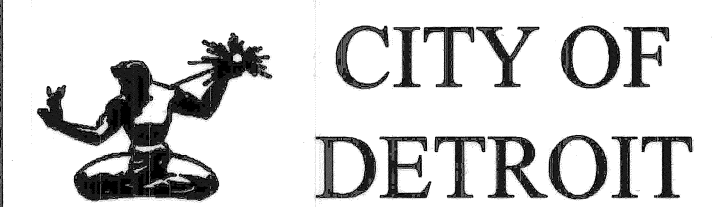
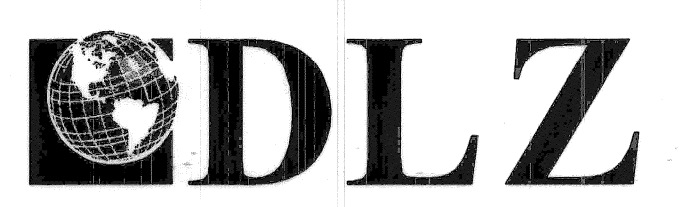


**TYPICAL WINGWALL SECTION**  
(SW)



**TYPICAL END WINGWALL SECTION**  
(NE, NW, SE, SW)

REVISIONS	DESCRIPTION	DATE	BY



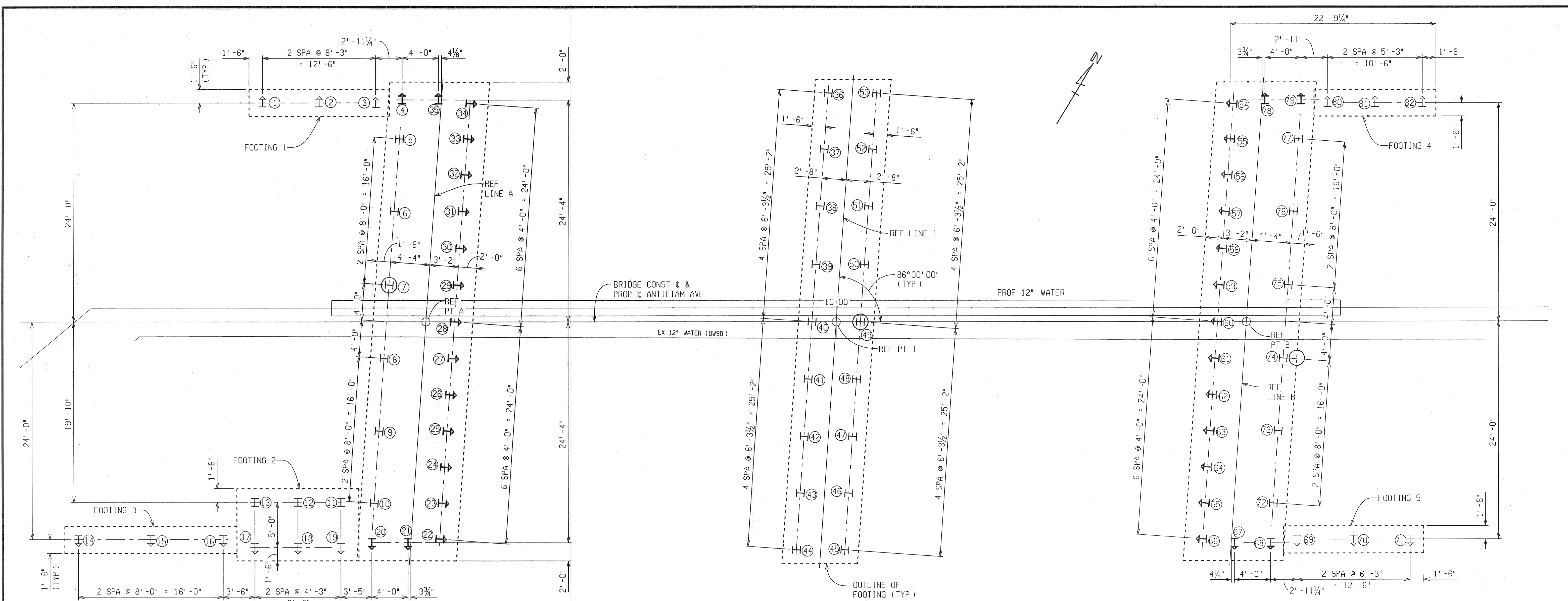
ANTIETAM AVENUE OVER  
DEQUINDRE CUT GREENWAY  
MDOT JOB NO. 83945A STRUCTURE NO. S02 of 82-22-97

GENERAL PLAN OF STRUCTURE

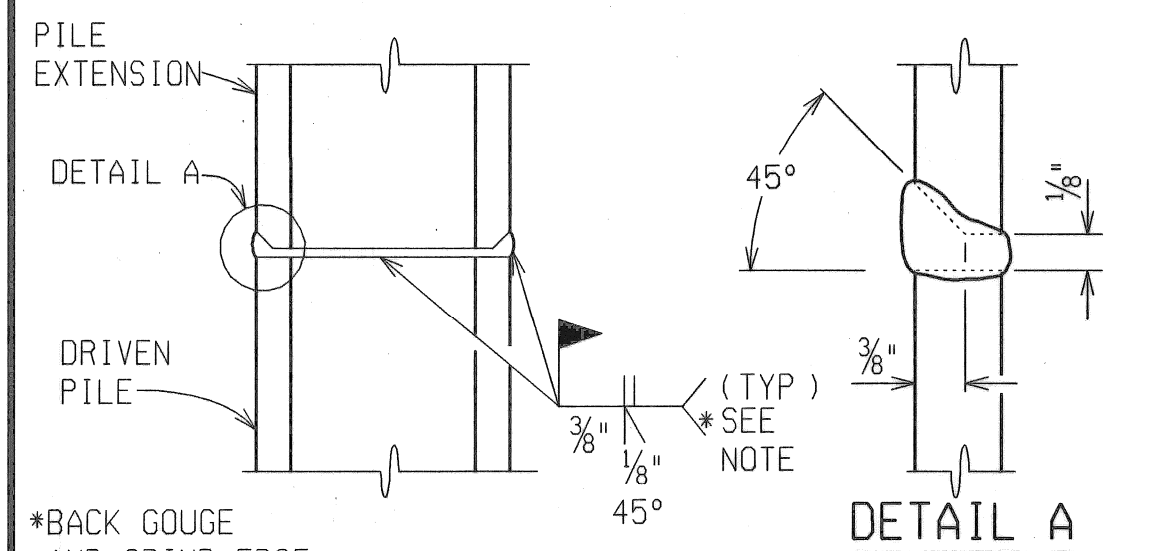
DATE: 4/13/07  
DLZ JOB NO. 0641-6053-00  
SHEET NO. 9 OF 48

DATE: 9/12/06 CORRECTED BY: DLW DATE: 9/6/06 CHECKED BY: BMW DATE: 06/15/06 DRAWN BY: bmw FILE NAME: antietam-st3.dgn

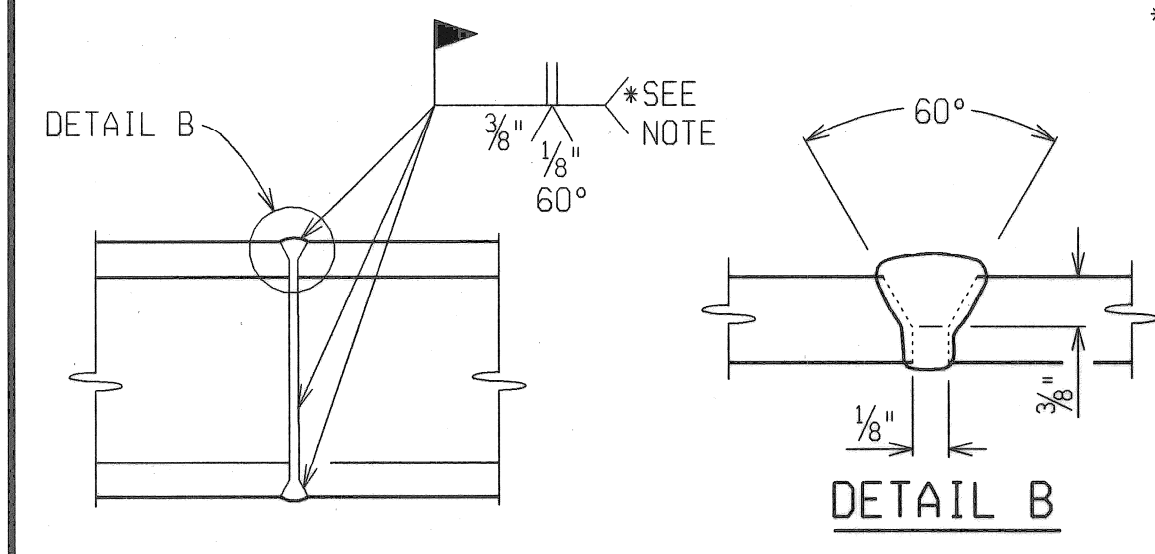




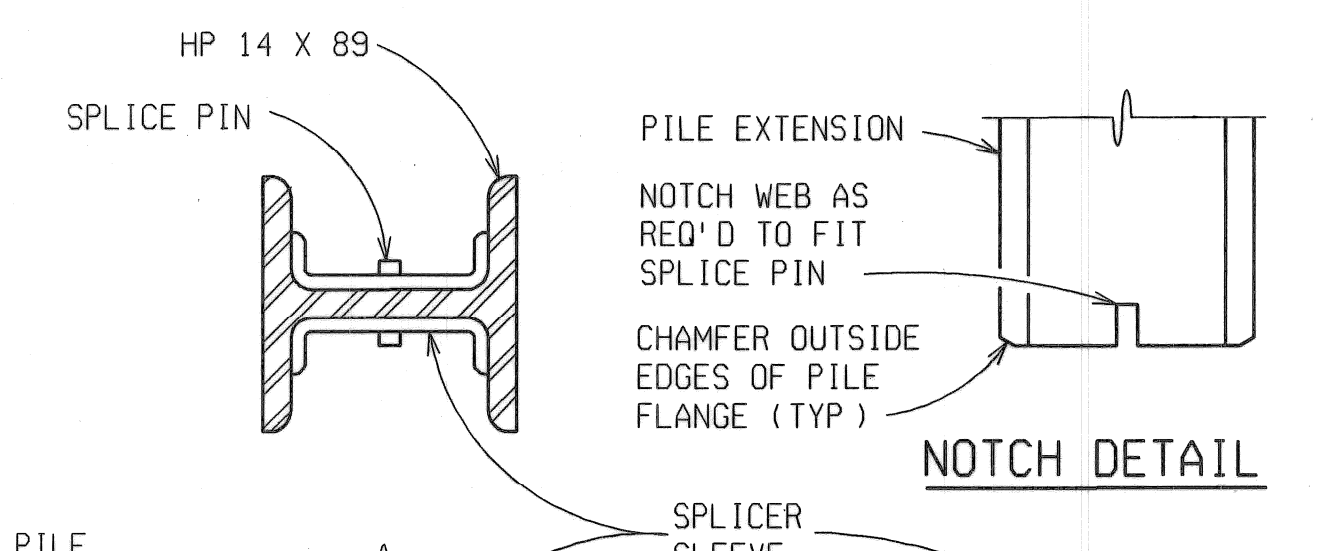
PLAN OF PILE LAYOUT



SPlice DETAILS FOR PILES IN PLACE (HORIZONTAL JOINT)

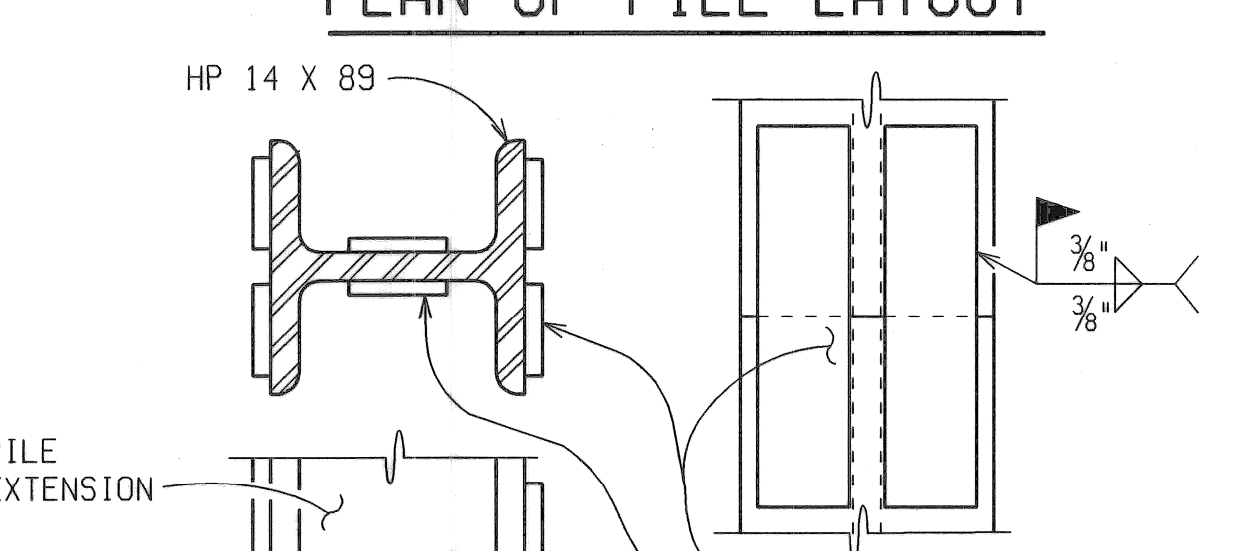


SPlice DETAILS FOR PILES IN HORIZONTAL POSITION



ALternate SPlice DETAILS

\* SET PILE EXTENSION IN PLACE WITH SPLICE PLATES ATTACHED, TAP SEVERAL TIMES WITH THE HAMMER TO IMPROVE BEARING CONTACT, THEN COMPLETE WELDING OF PLATES TO THE LOWER SECTION.



SPlice DETAILS

\* SET PILE EXTENSION IN PLACE WITH SPLICE PLATES ATTACHED, TAP SEVERAL TIMES WITH THE HAMMER TO IMPROVE BEARING CONTACT, THEN COMPLETE WELDING OF PLATES TO THE LOWER SECTION.

PILES - FURNISHED AND DRIVEN						
LOCATION	PILE TYPE	NUMBER OF PILES	ESTIMATED LENGTH FURNISHED & DRIVEN EACH FEET	TOTAL FEET	MIN PILE PENETRATION EL	CUT-OFF EL
ABUT A	TEST	1	125	125	0.00	112.50
	BATTERED	17	120	2040		
ABUT B	TEST	1	125	125	0.00	112.50
	BATTERED	17	120	2040		
PIER 1	TEST	1	125	125	0.00	112.50
	BATTERED	17	115	1955		
FOOTING 1	VERTICAL	0	0	0	0.00	121.15
	BATTERED	3	125	375		
FOOTING 2	VERTICAL	3	120	360	0.00	118.30
	BATTERED	3	125	375		
FOOTING 3	VERTICAL	0	0	0	0.00	125.80
	BATTERED	3	130	390		
FOOTING 4	VERTICAL	0	0	0	0.00	127.81
	BATTERED	3	135	405		
FOOTING 5	VERTICAL	0	0	0	0.00	129.58
	BATTERED	3	135	405		
TOTAL		82				

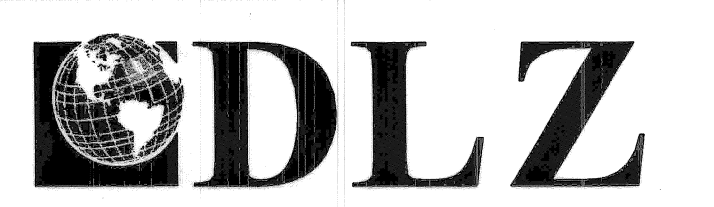
MISCELLANEOUS QUANTITIES

1	LS	Pile Driving Equipment, Furn
9870	Ft	Pile, Steel, Furn and Driven, 14 inch
82	Ea	Pile Point, Steel
3	Ea	Test Pile, Steel, 14 inch

NOTES:

- ⊥ --DENOTES VERTICAL PILES.
  - ⊥ --DENOTES 3V:1H BATTERED PILES.
  - ⊥ --DENOTES 4V:1H BATTERED PILES.
  - ⊕ --DENOTES VERTICAL TEST PILES.
- ABUTMENT AND PIER PILES SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 90 TONS.
- THE ESTIMATED PILE LENGTH IS BASED ON THE STATIC FORMULA.
- STEEL PILES SHALL BE HP 14 X 89.
- PILES ARE TO BE DRIVEN TO SUCH ACCURACY THAT THE ENDS OF THE PILES TO BE EMBEDDED IN THE CONCRETE ARE WITHIN 3" OF THE LOCATION SHOWN ON THE PLANS.

REVISIONS	DESCRIPTION	DATE	BY



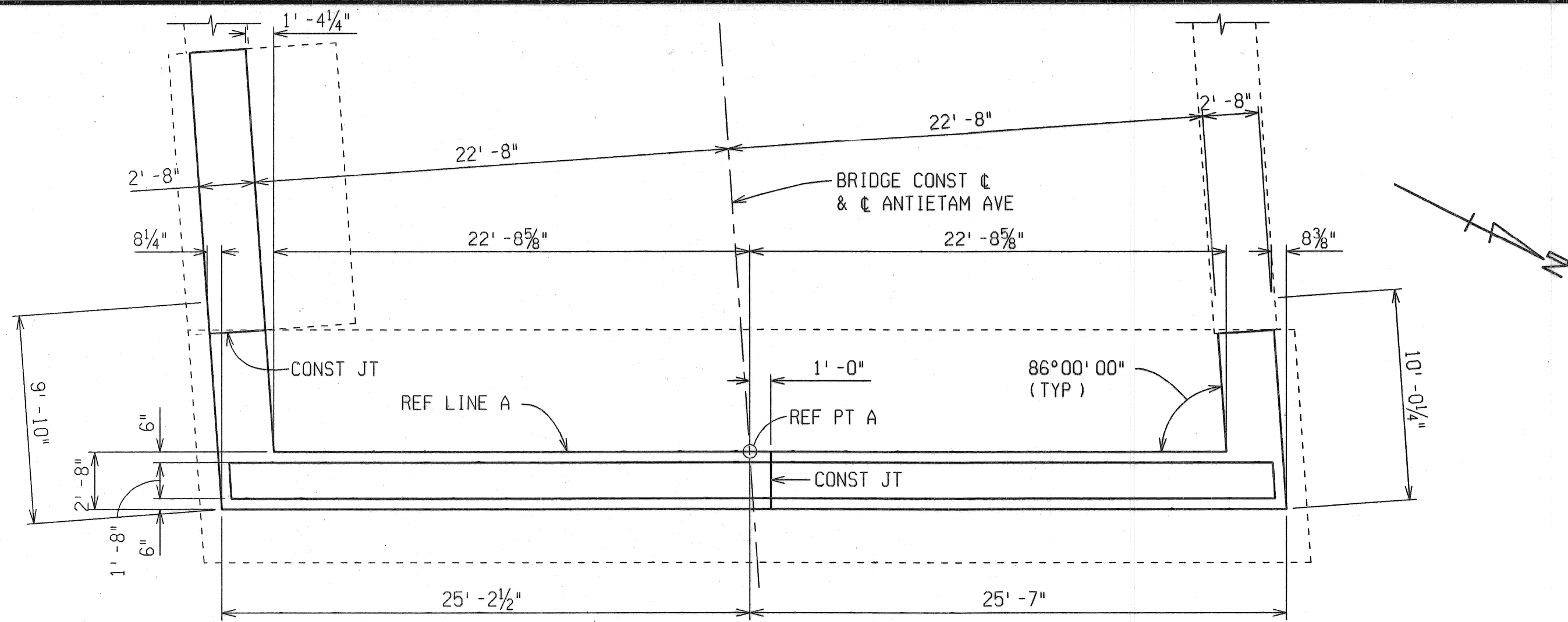
ANTIETAM AVENUE OVER DEQUINDRE CUT GREENWAY  
MDOT JOB NO. 83945A STRUCTURE NO. S02 of 82-22-97

PILE DETAILS

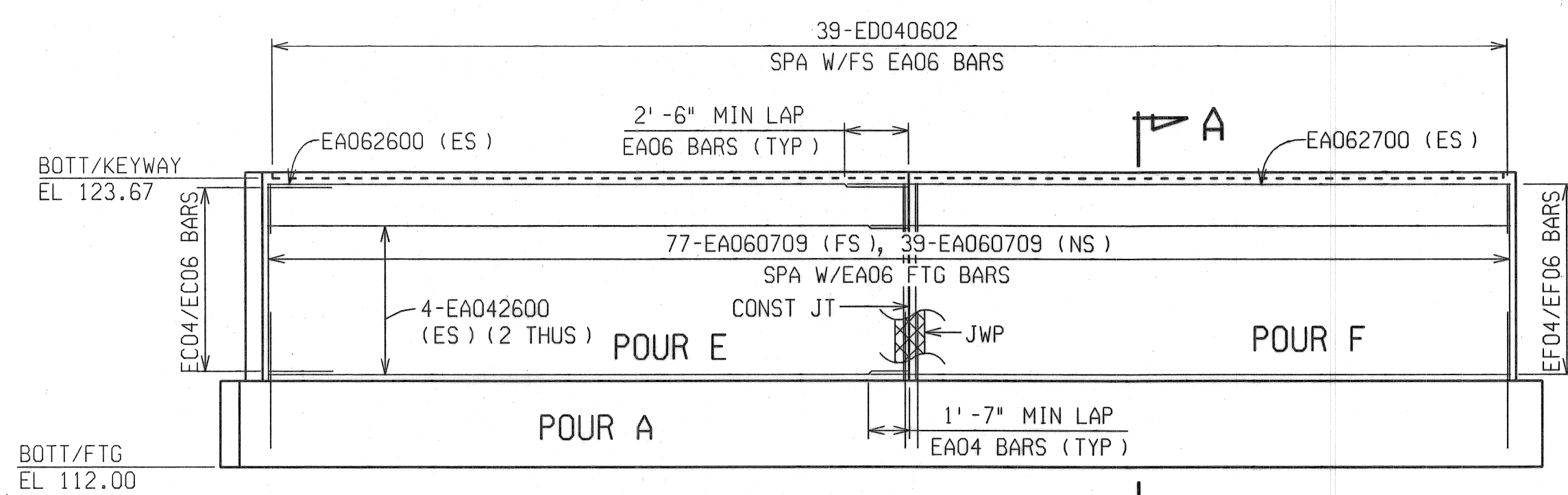
DATE:	4/13/07
DLZ JOB NO.	0641-6053-00
SHEET NO.	10 OF 48

DATE: 9/9/06 CORRECTED BY: DLW DATE: 9/6/06 CHECKED BY: BMW DATE: 8/30/06 DRAWN BY: DLW FILE NAME: anti-etam-pl.dgn

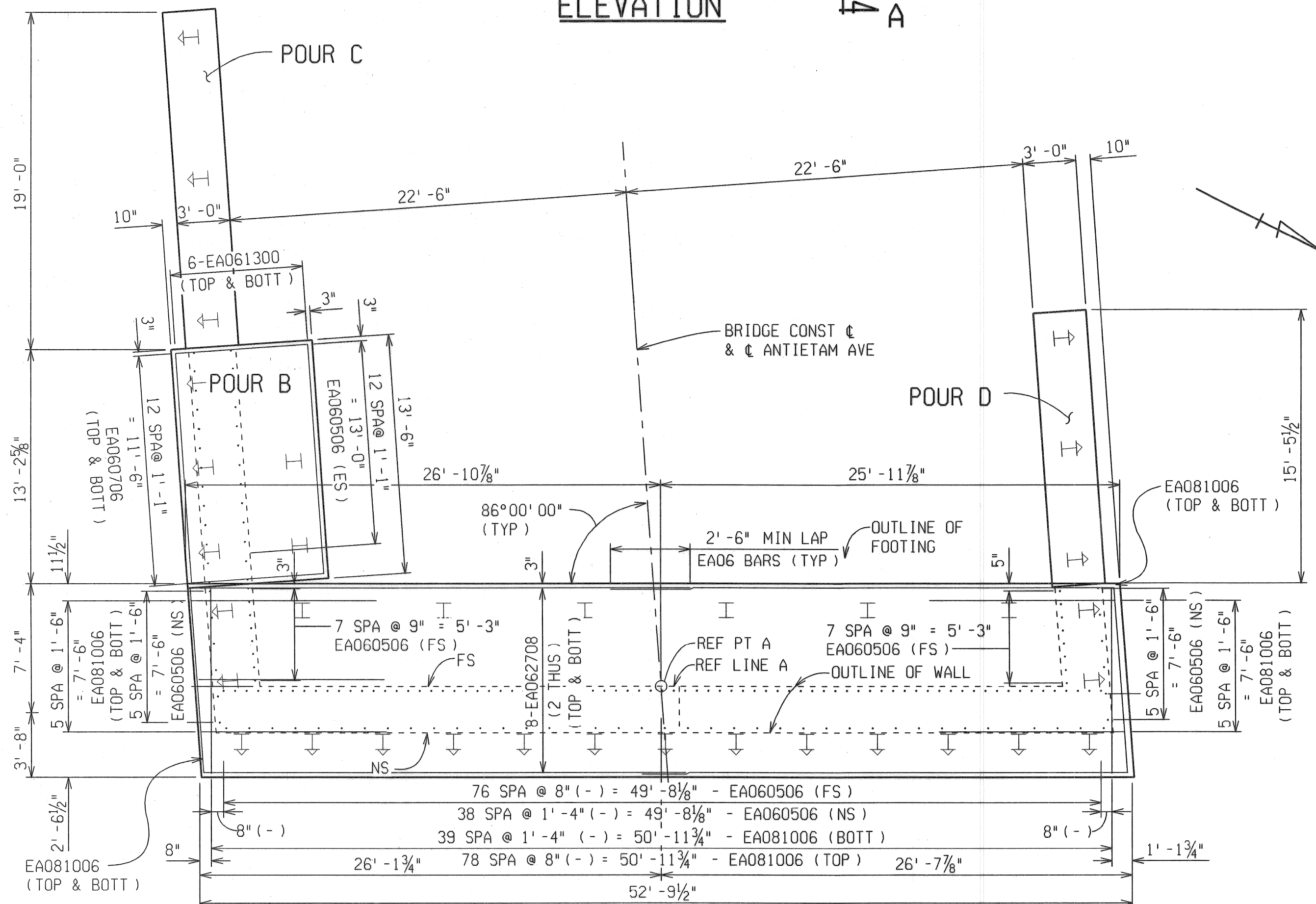




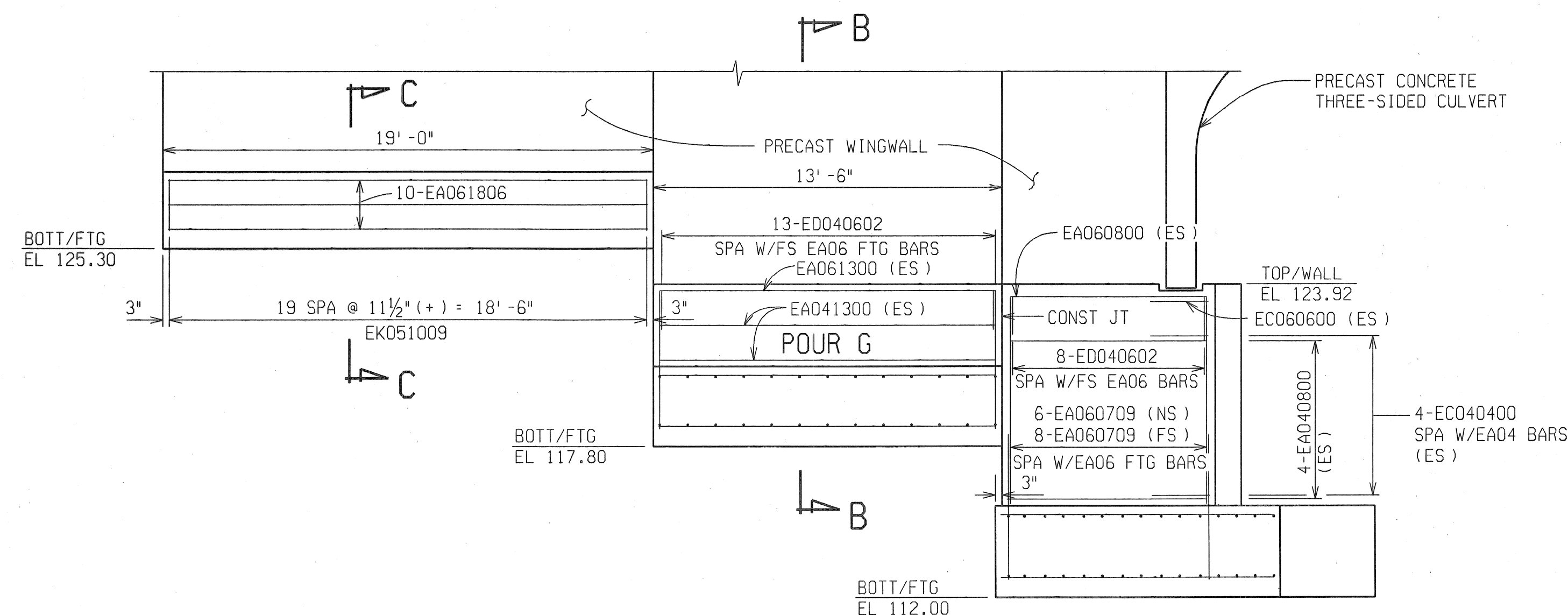
PLAN OF WALL



ELEVATION

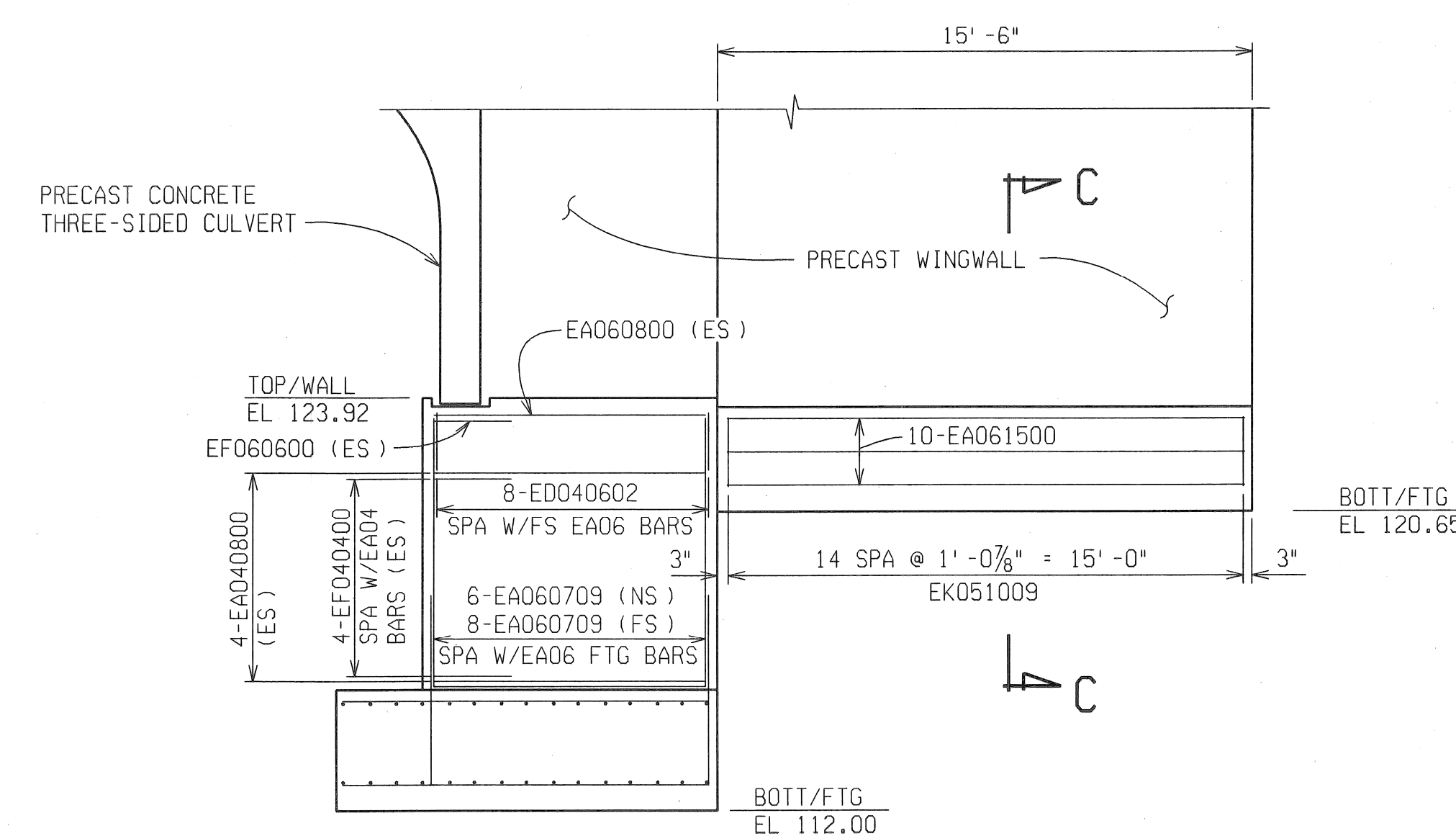


PLAN OF FOOTING



SOUTH WINGWALL ELEVATION

(PILES OMITTED FOR CLARITY)



NORTH WINGWALL ELEVATION

(PILES OMITTED FOR CLARITY)

REVISIONS	DESCRIPTION	DATE	BY



CITY OF DETROIT

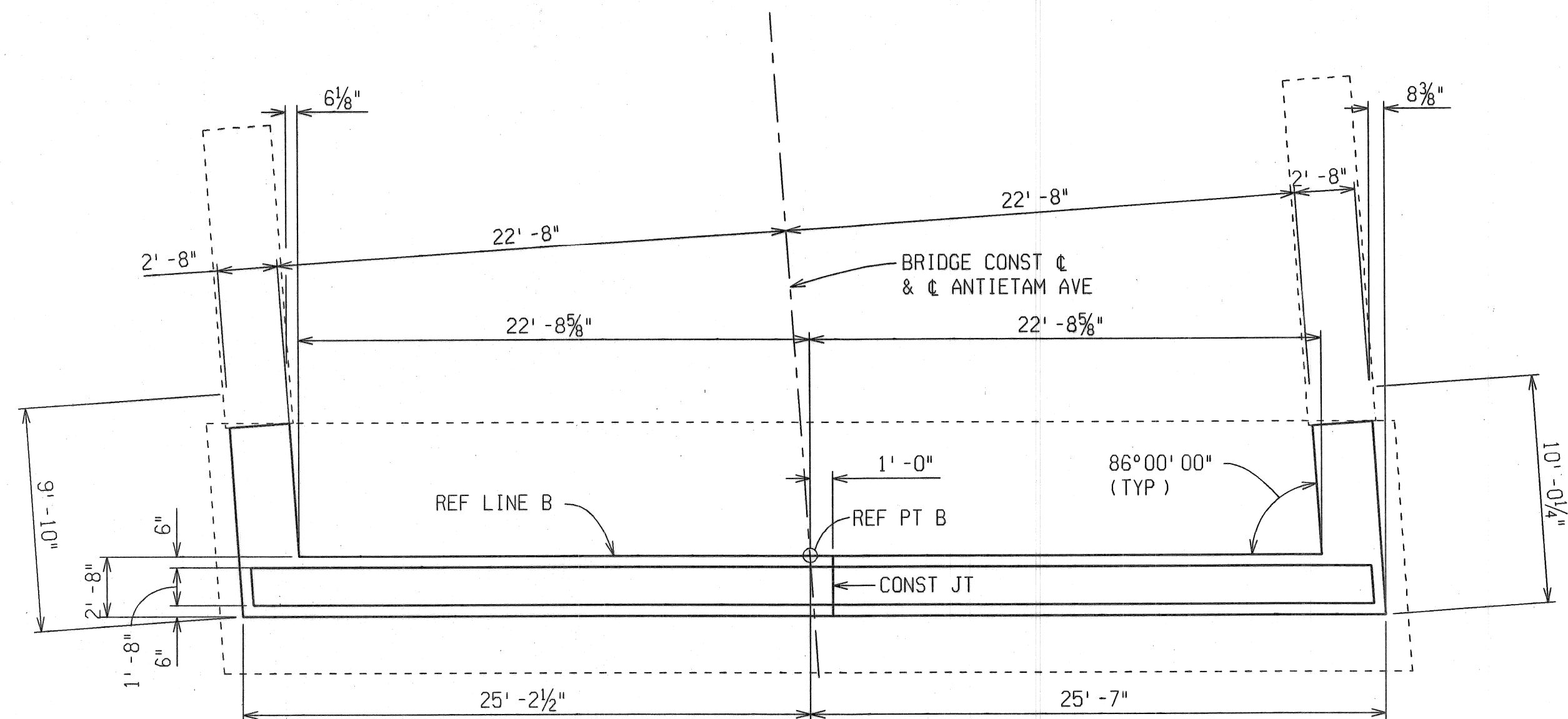
ANTIETAM AVENUE OVER DEQUINDRE CUT GREENWAY

MDOT JOB NO. 83945A STRUCTURE NO. S02 of 82-22-97

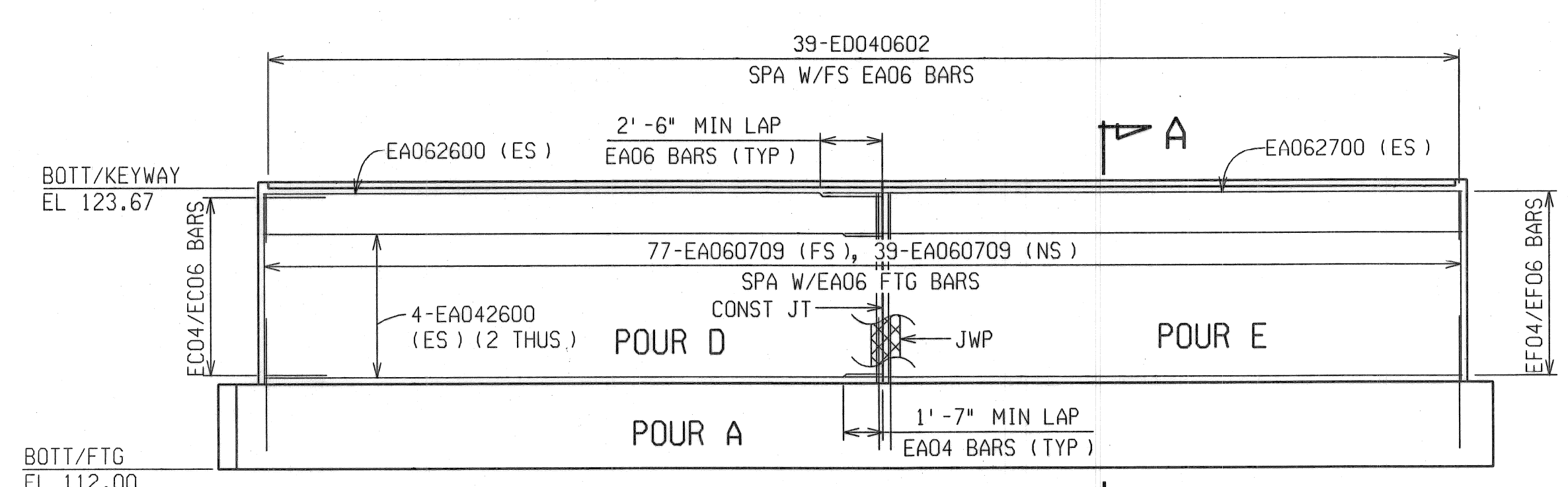
ABUTMENT A DETAILS

DATE:	4/13/07
DLZ JOB NO.	0641-6053-00
SHEET NO.	11 OF 48

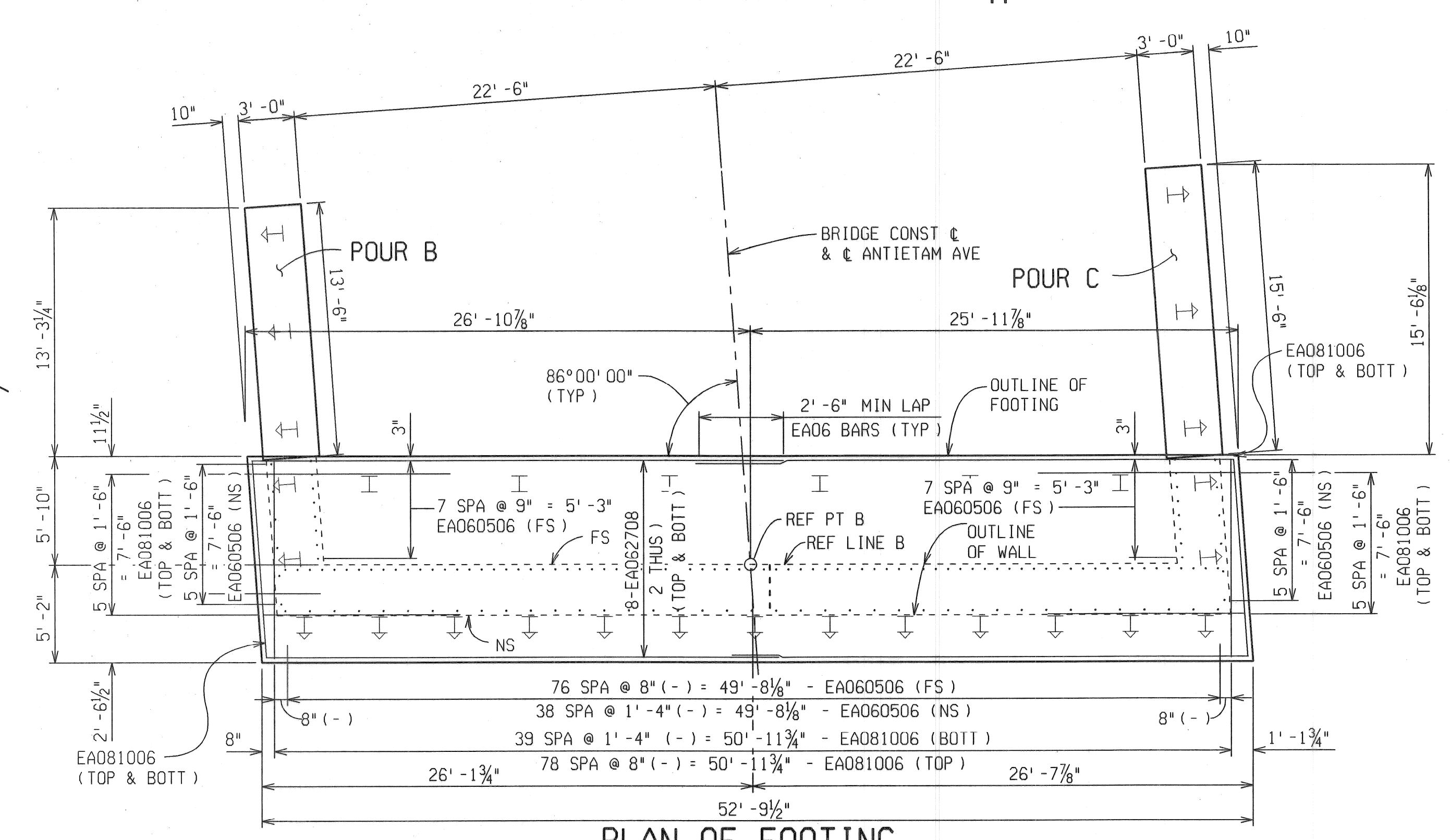




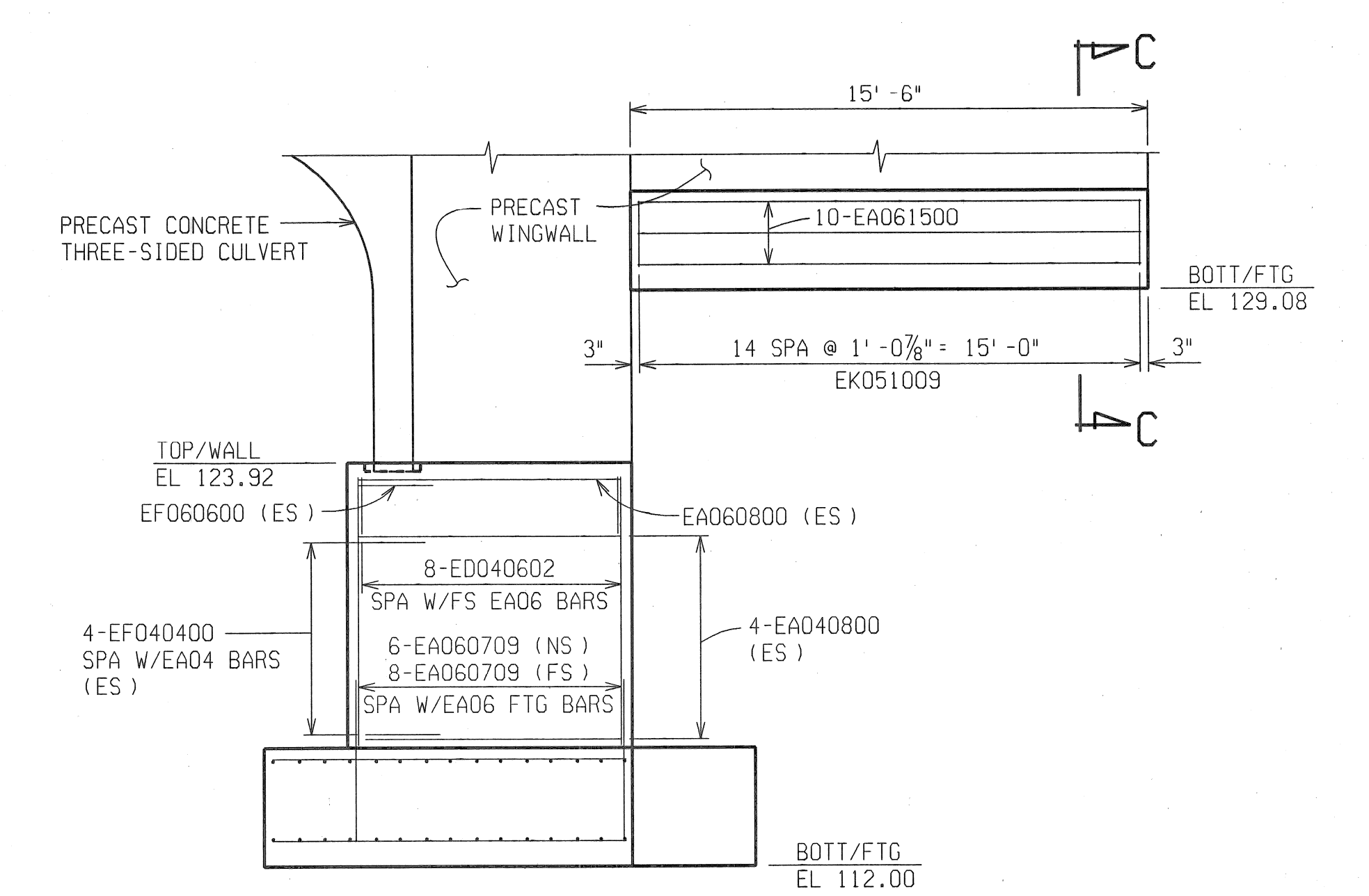
PLAN OF TOP



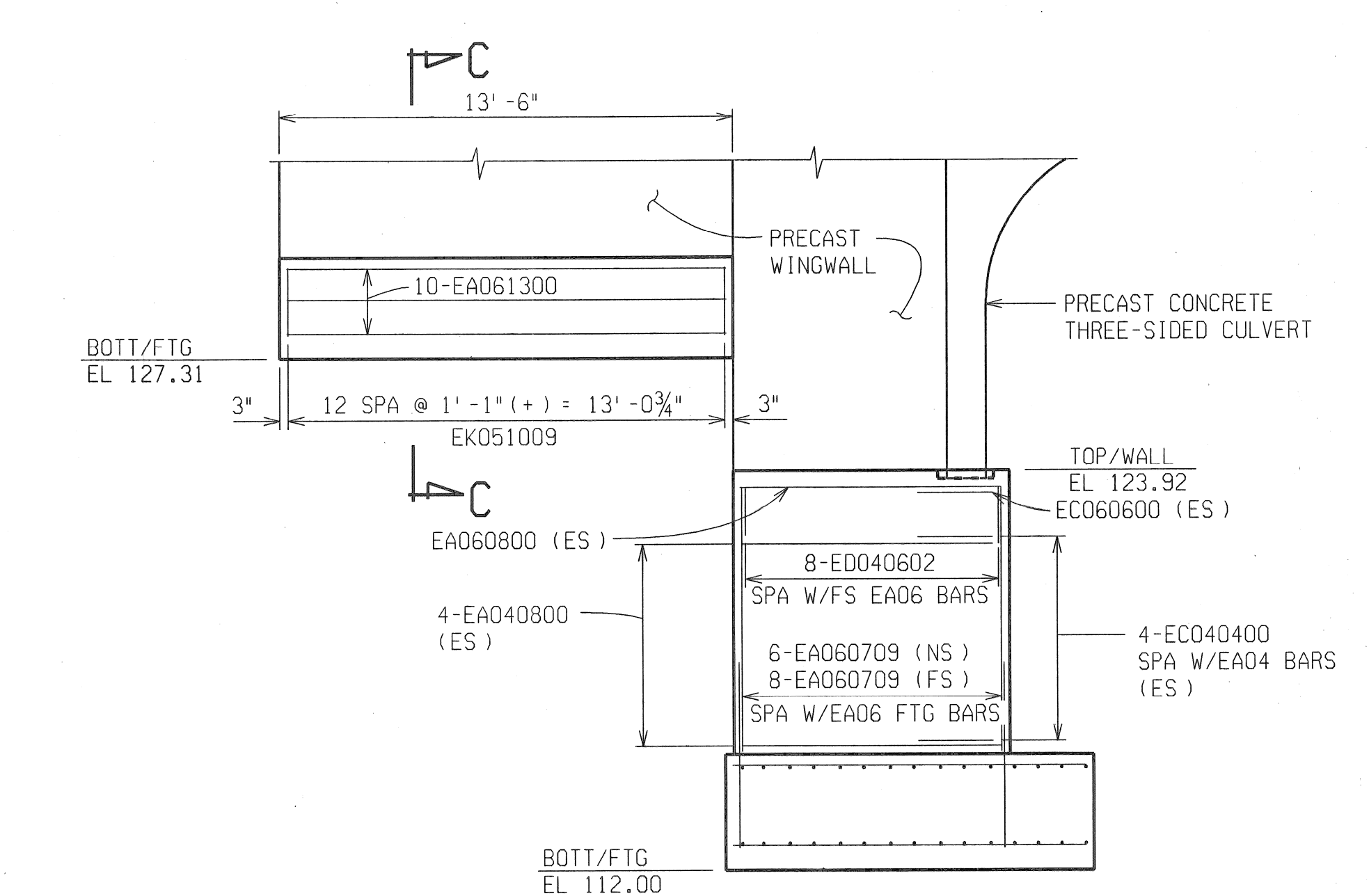
ABUTMENT ELEVATION A



PLAN OF FOOTING

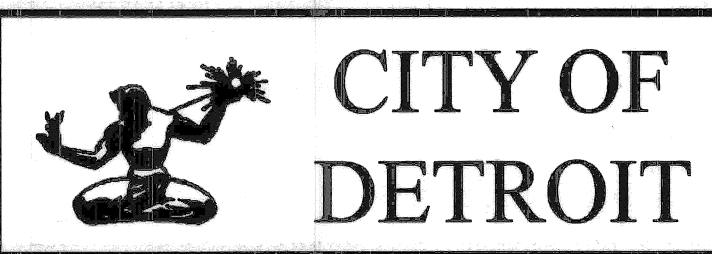


SOUTH WINGWALL ELEVATION  
(PILES OMITTED FOR CLARITY)



NORTH WINGWALL ELEVATION  
(PILES OMITTED FOR CLARITY)

REVISIONS	DESCRIPTION	DATE	BY



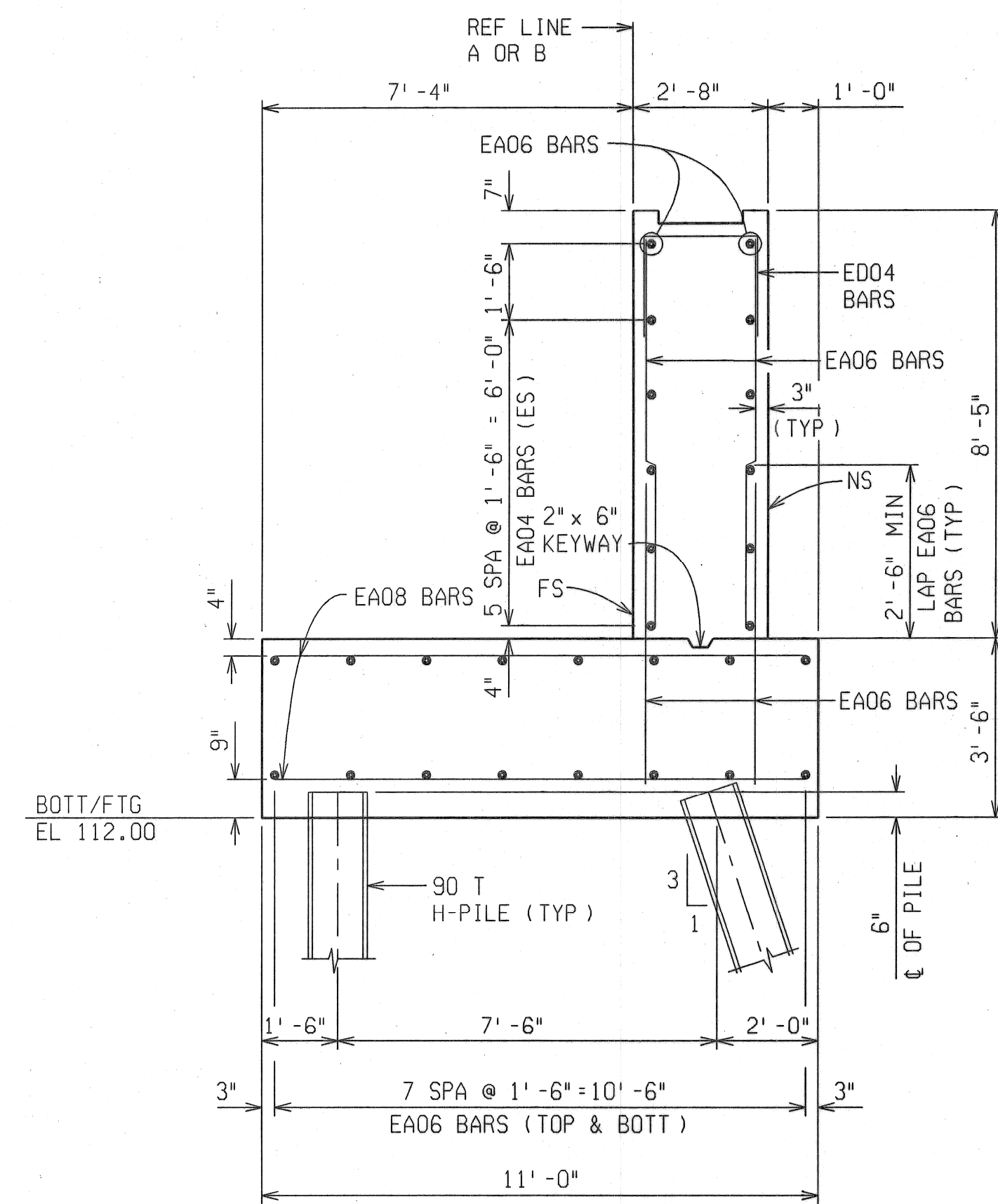
ANTIETAM AVENUE OVER  
DEQUINDRE CUT GREENWAY  
MDOT JOB NO. 83945A    STRUCTURE NO. S02 of 82-22-97

ABUTMENT B DETAILS

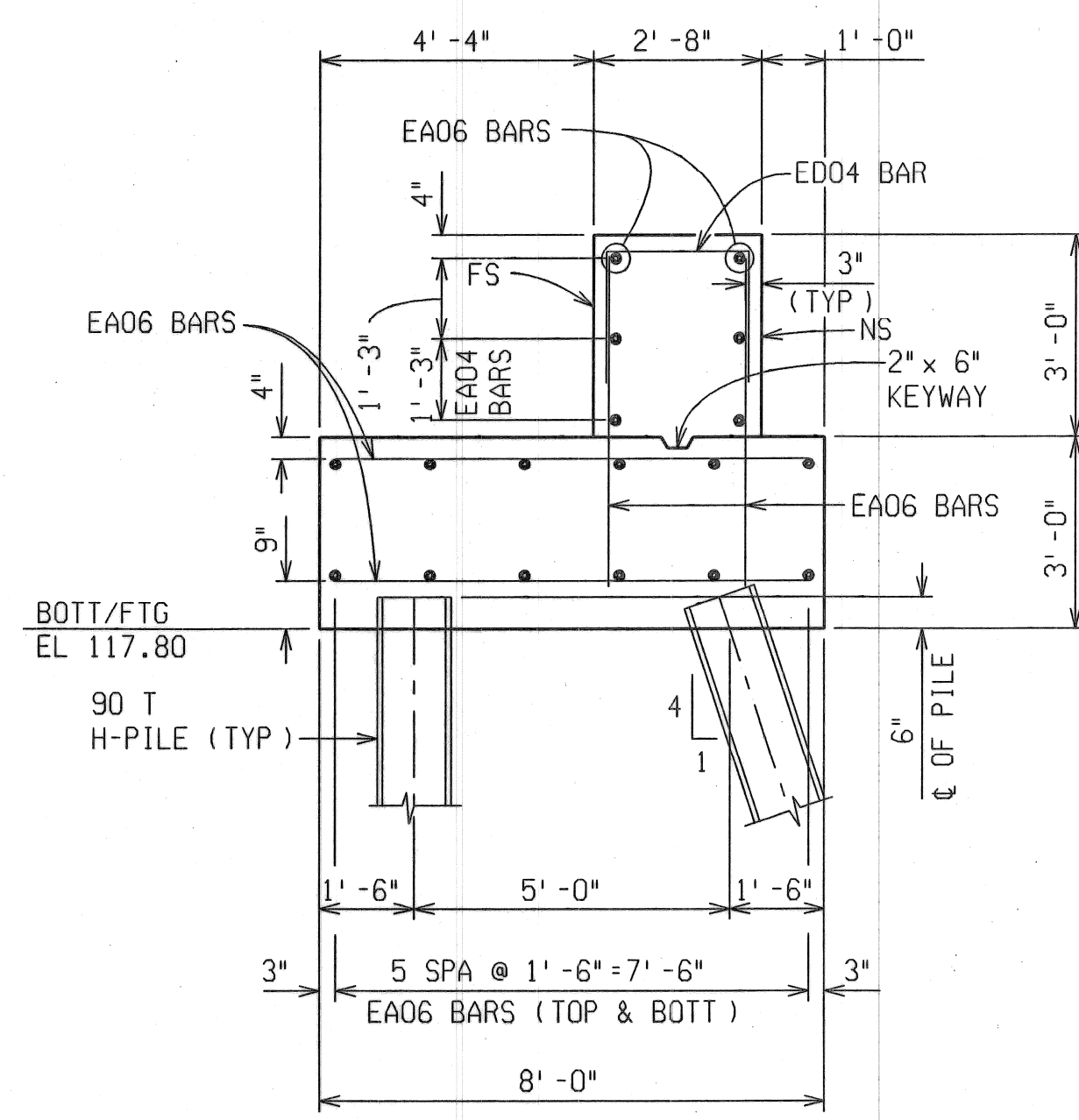
DATE: 4/13/07  
DLZ JOB NO. 0641-6053-00  
SHEET NO. 12 OF 48

DATE: 9/12/06    CORRECTED BY: DLW    CHECKED BY: TNB    DATE: 08/31/06    DRAWN BY: BMW    FILE NAME: anti-etam-abb1.dgn

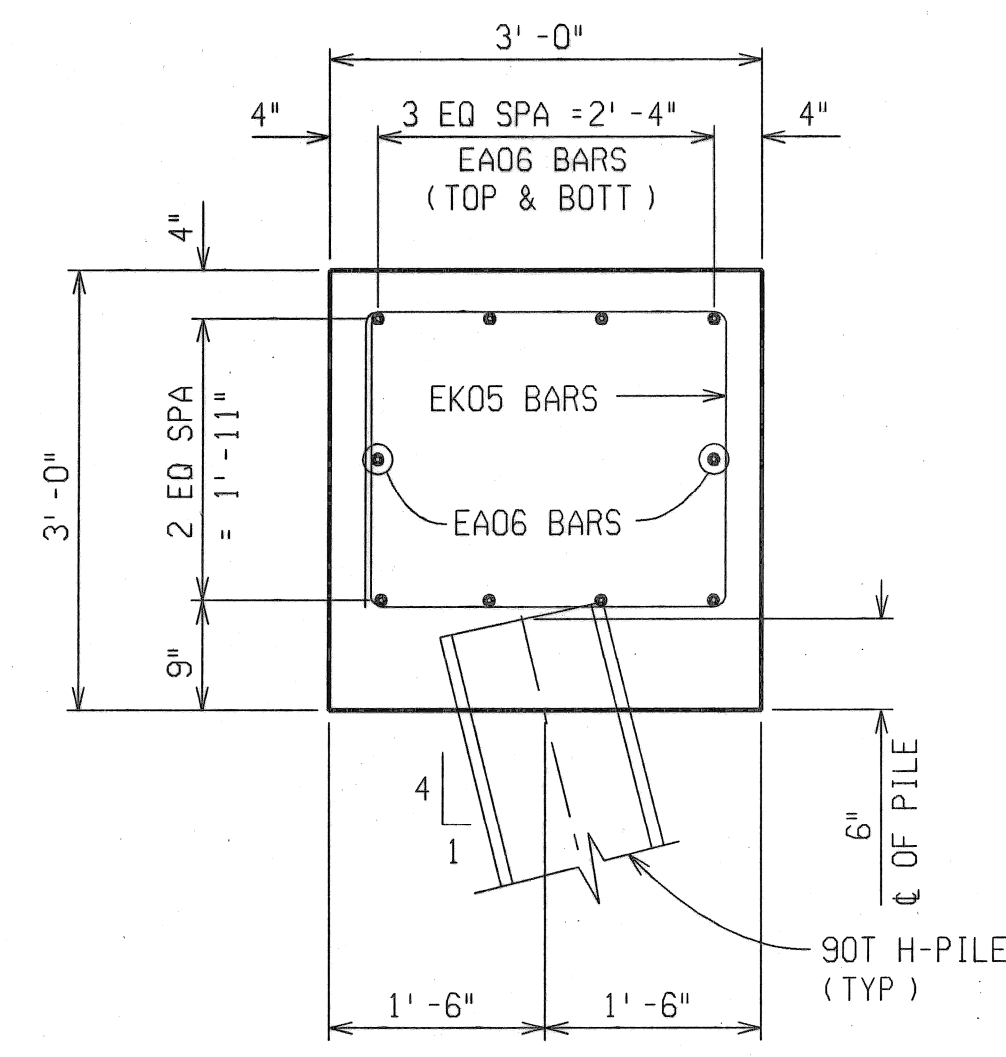




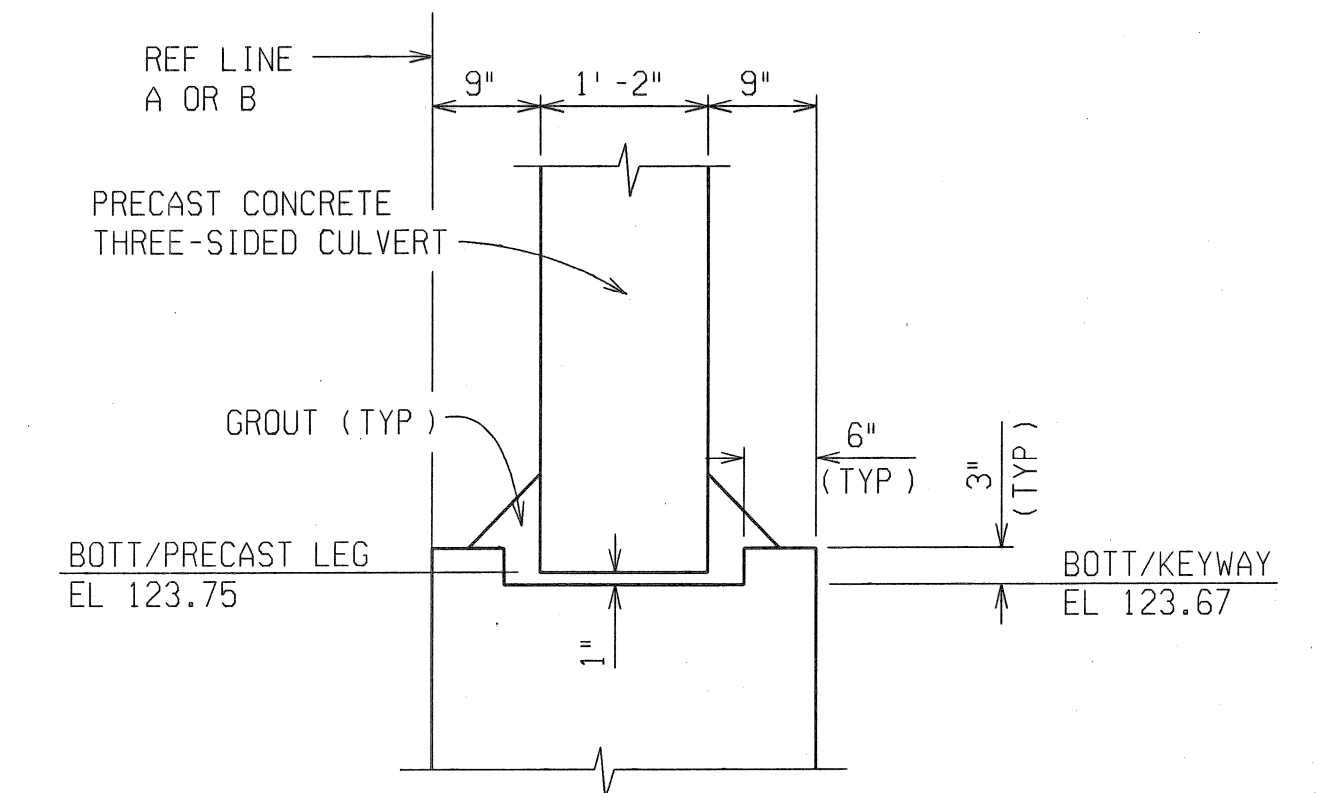
SECTION A-A



SECTION B-B



SECTION C-C



DETAIL OF KEYWAY

MISCELLANEOUS QUANTITIES

32 Sft Joint Waterproofing

SUBSTRUCTURE CONC QUANTITIES

POUR	ABUT A	ABUT B
A	74.5	75.5
B	12.0	4.5
C	6.5	5.0
D	5.0	26.5
E	26.5	25.0
F	25.0	
G	4.0	
TOTAL	153.5	136.5
GRAND TOTAL	290 CYD	

NOTES:

JWP DENOTES JOINT WATERPROOFING.

NS DENOTES NEAR SIDE.

FS DENOTES FAR SIDE.

ES DENOTES EACH SIDE.

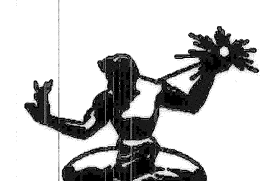
FOR BEVEL AND MOLDING DETAILS, SEE STANDARD PLAN B-103 SERIES.

WORK THIS SHEET WITH SHEETS 11-12 OF 48.

FOR PILE QUANTITIES, LAYOUT AND NOTES, SEE SHEET 10 OF 48.

LOW TEMPERATURE PROTECTION OF CONCRETE SHALL BE APPLIED ACCORDING TO SECTION 706.03J, OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION. LOW TEMPERATURE PROTECTION OF CONCRETE WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE BID ITEM "Substructure Conc".

REVISIONS	DESCRIPTION	DATE	BY



CITY OF DETROIT

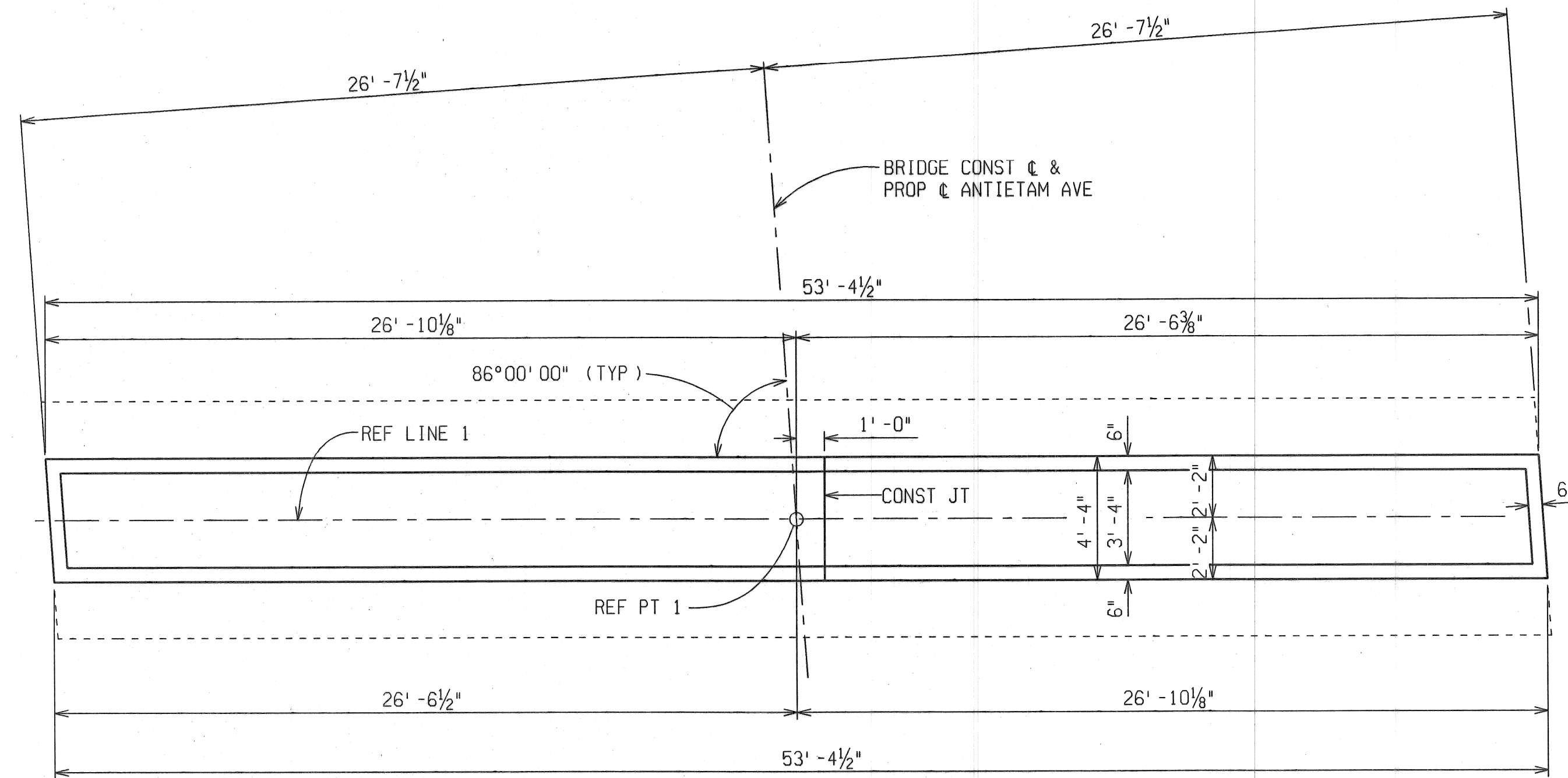
ANTIETAM AVENUE OVER DEQUINDRE CUT GREENWAY

MDOT JOB NO. 83945A STRUCTURE NO. S02 of 82-22-97

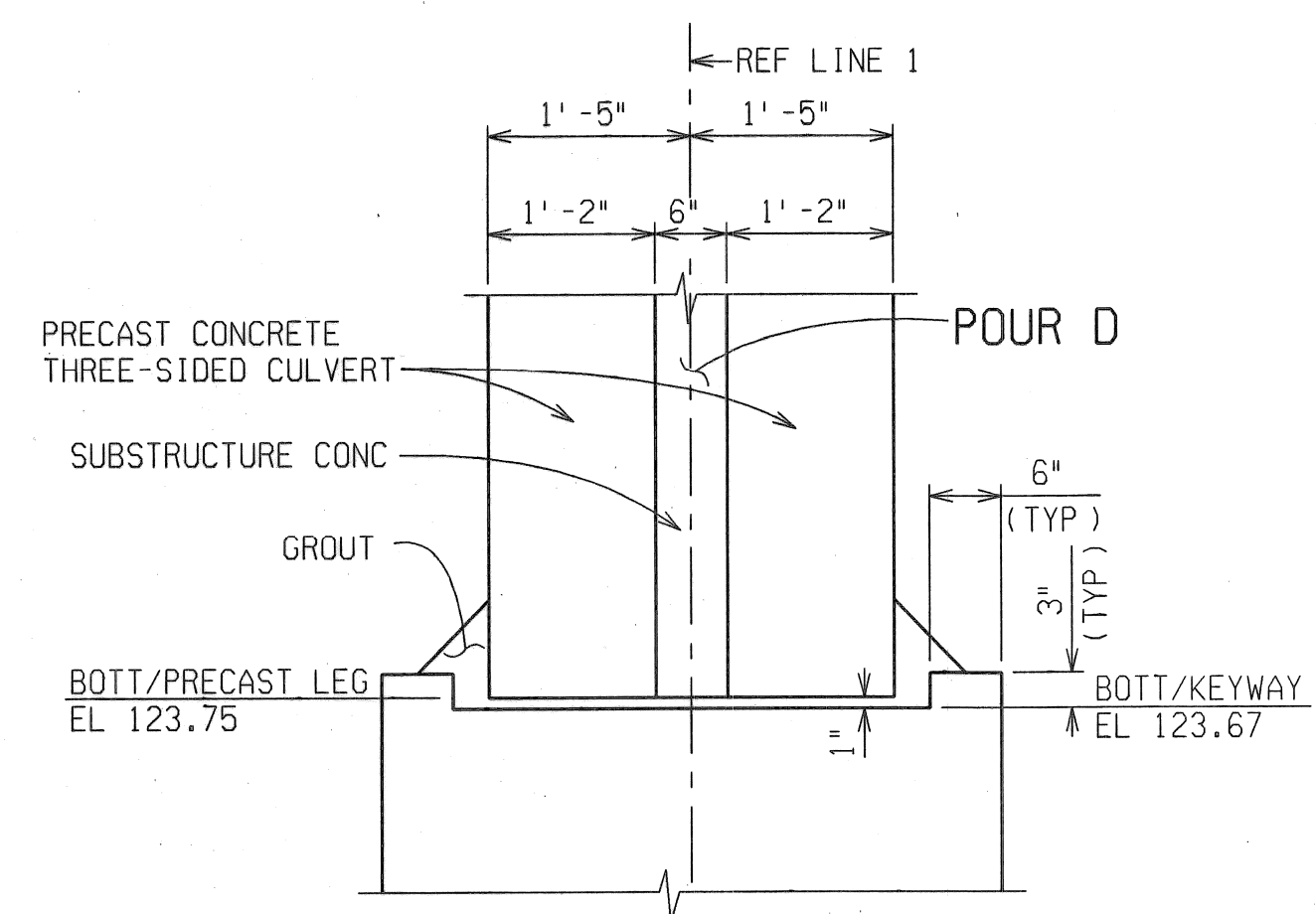
ABUTMENT DETAILS

DATE: 4/13/07  
DLZ JOB NO. 0641-6053-00  
SHEET NO. 13 OF 48



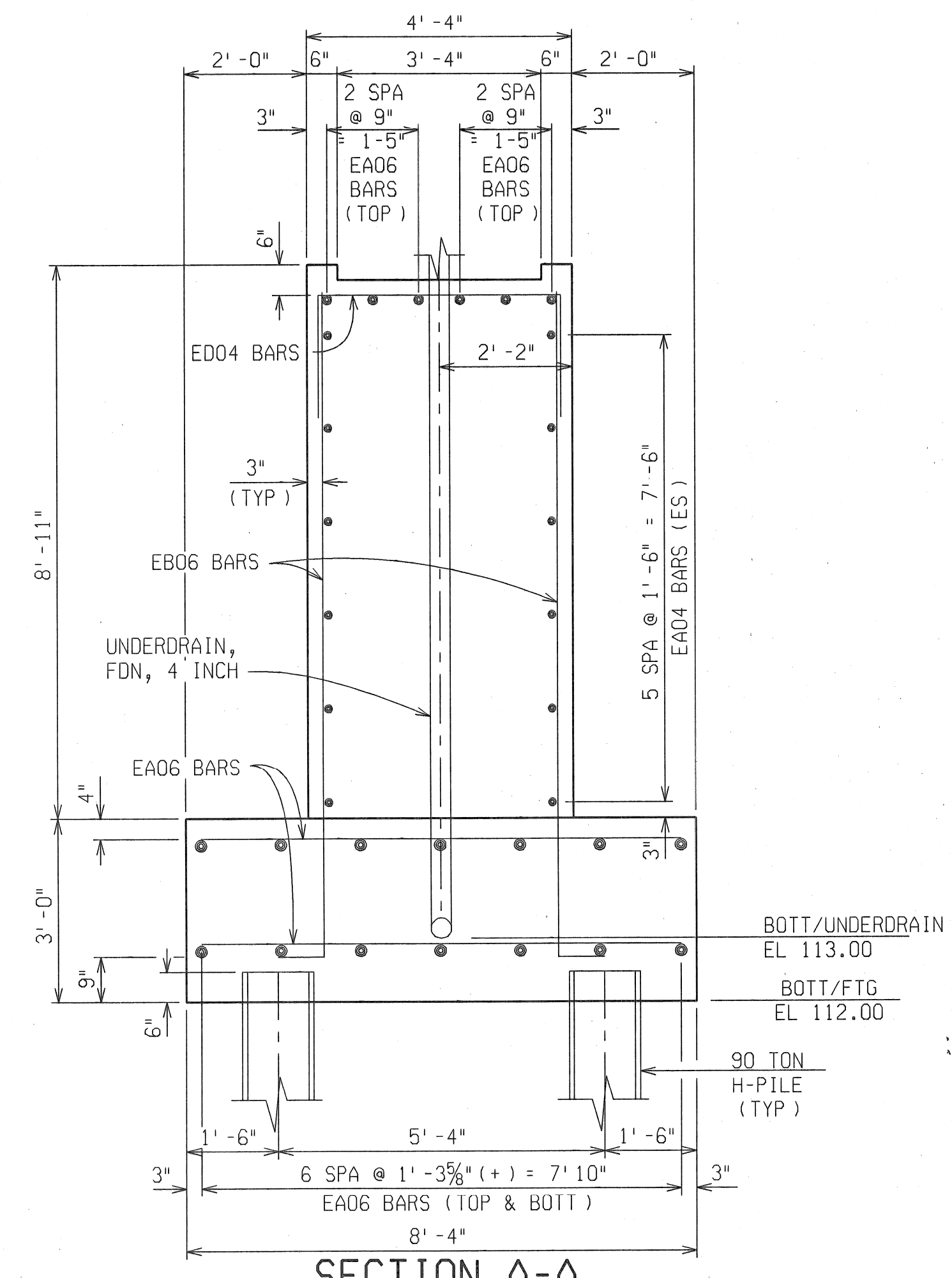


PLAN OF TOP

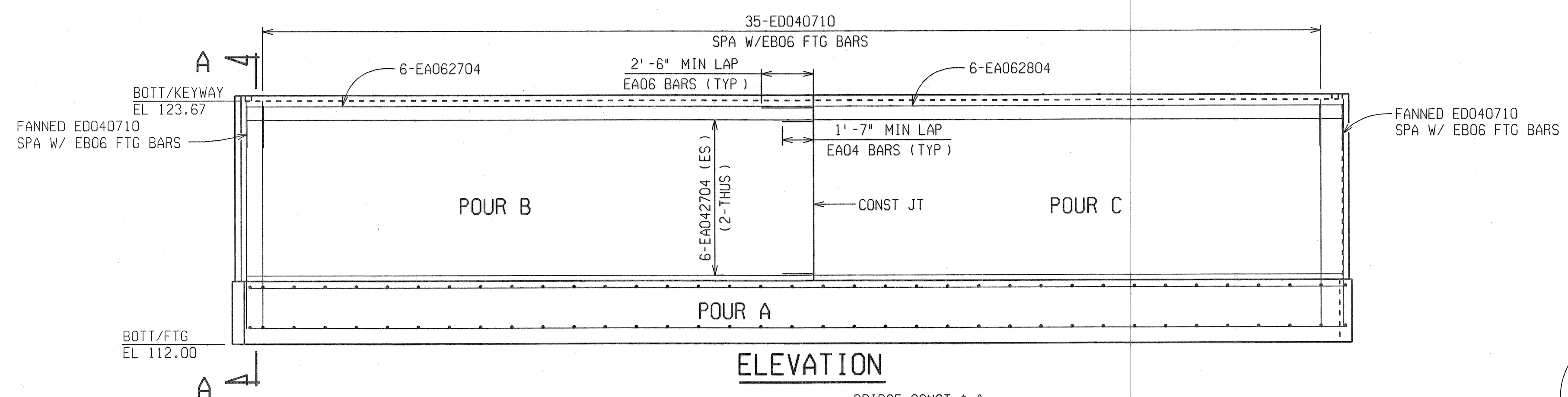


DETAIL OF KEYWAY  
POUR D EXTENDS TO TOP OF CULVERT.

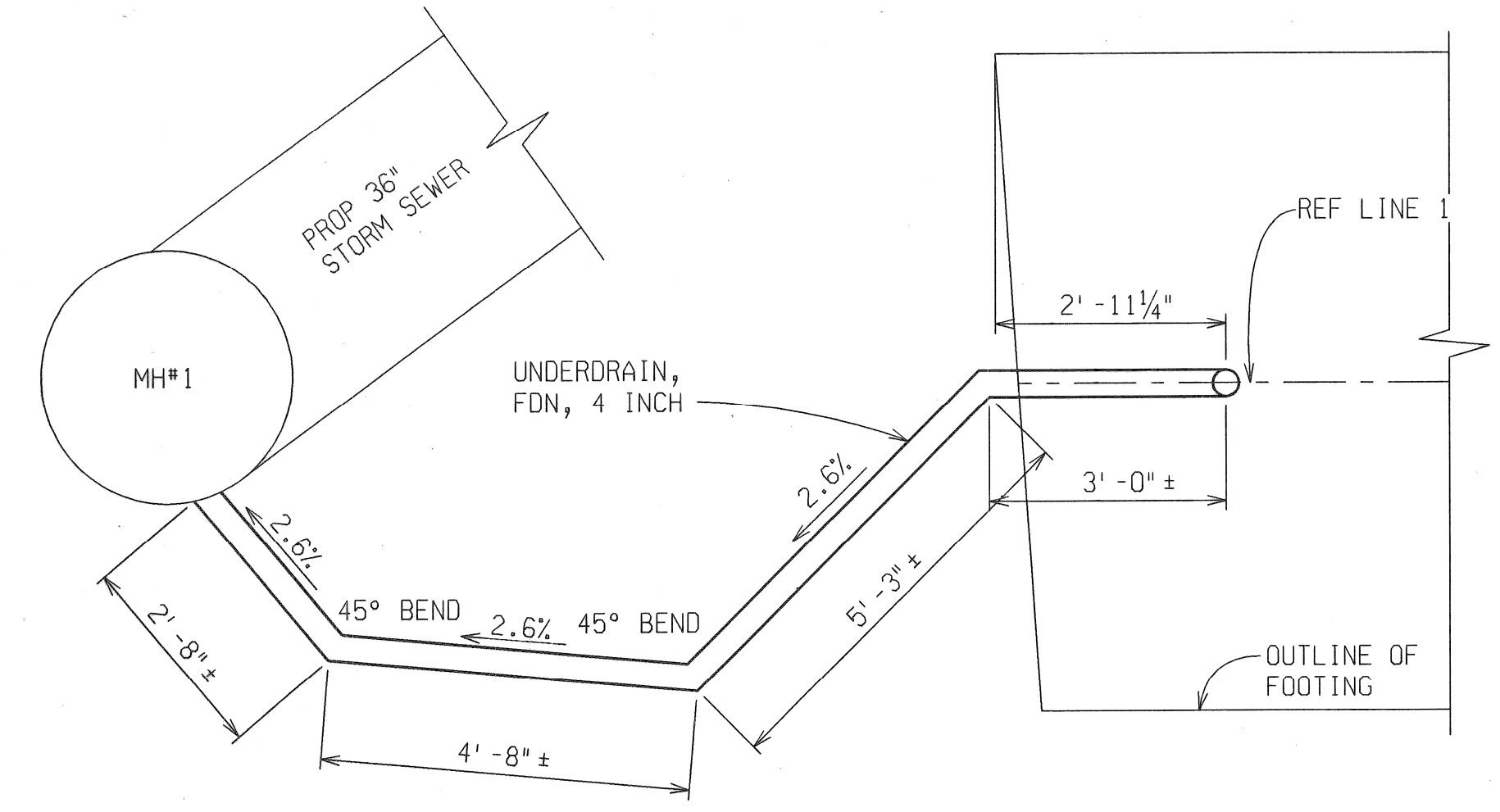
SUBSTRUCTURE CONC QUANTITIES	
POUR	CYD
A	49.0
B	39.0
C	36.0
D	9.0
TOTAL	133



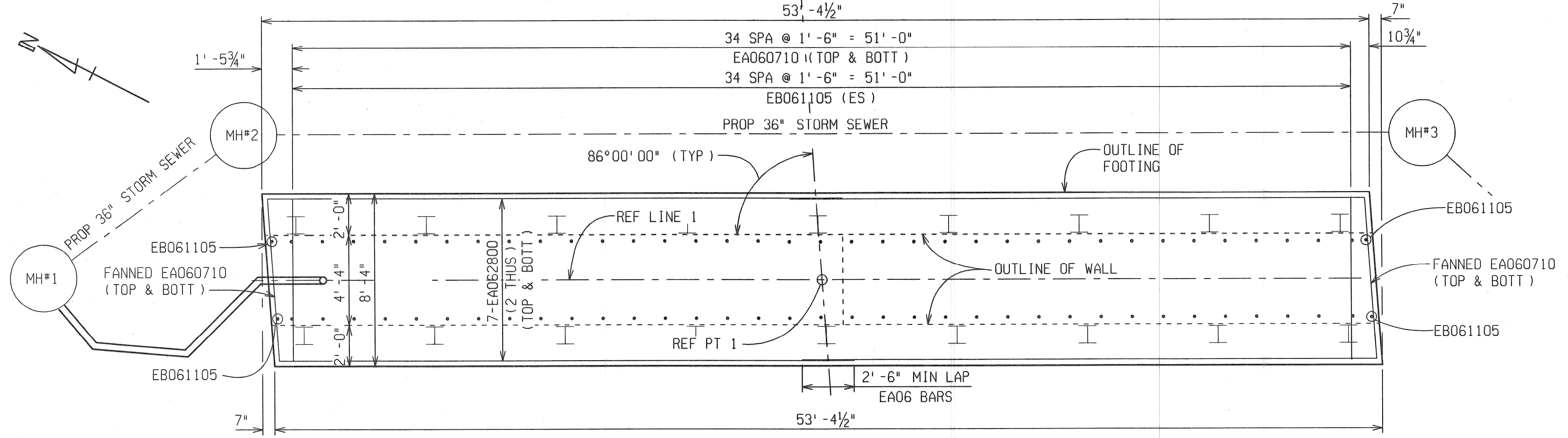
SECTION A-A



ELEVATION



UNDERDRAIN DETAIL



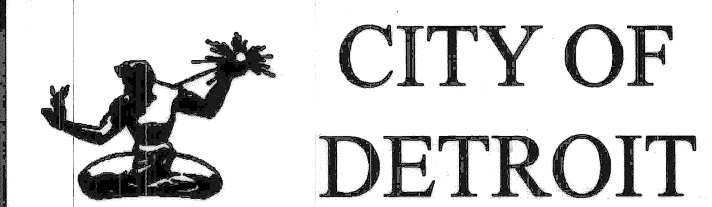
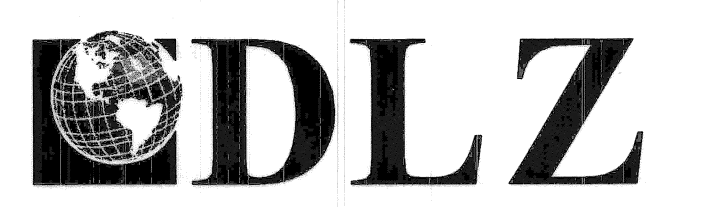
PLAN OF FOOTING

MISCELLANEOUS QUANTITIES	
86	Ft Underdrain, Fdn, 4 inch
1	Ea Sewer Top, 4 inch

NOTES:

- ES DENOTES EACH SIDE.
- FS DENOTES FAR SIDE.
- NS DENOTES NEAR SIDE.
- FOR BEVEL AND MOLDING DETAILS, SEE STANDARD PLAN B-103 SERIES.
- FOR PILE QUANTITIES, LAYOUT AND NOTES, SEE SHEET 10 OF 48.
- LOW TEMPERATURE PROTECTION OF CONCRETE SHALL BE APPLIED ACCORDING TO SECTION 706.03J, OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- LOW TEMPERATURE PROTECTION OF CONCRETE WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE BID ITEM "Substructure Conc".

REVISIONS	DESCRIPTION	DATE	BY



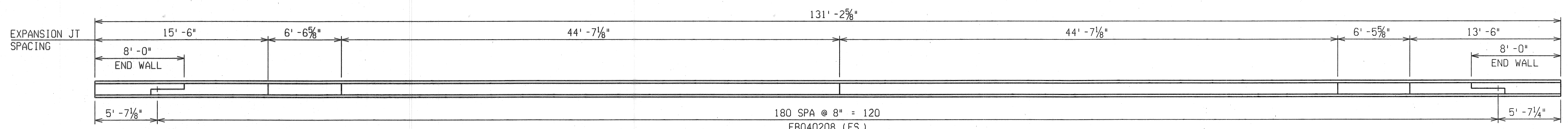
ANTIETAM AVENUE OVER  
DEQUINDRE CUT GREENWAY

MDOT JOB NO. 83945A    STRUCTURE NO. S02 of 82-22-97

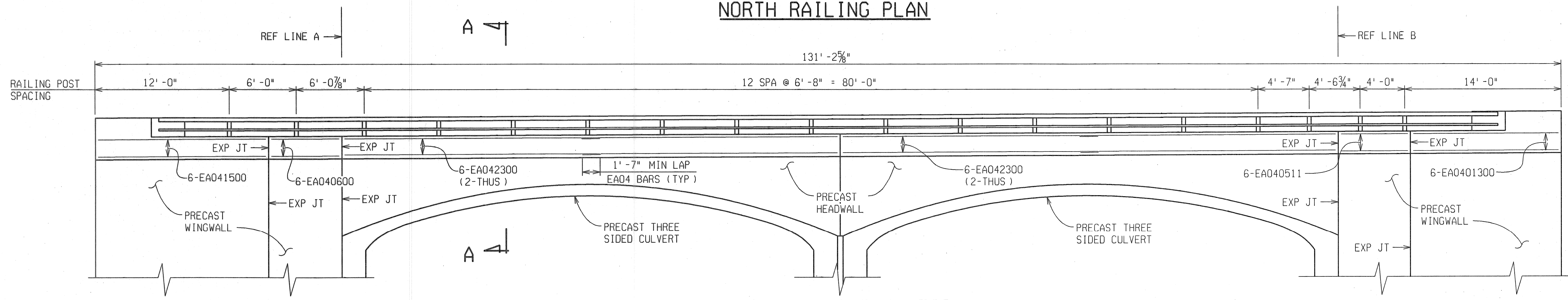
PIER DETAILS

DATE:	4/13/07
DLZ JOB NO.	0641-6053-00
SHEET NO.	14 OF 48

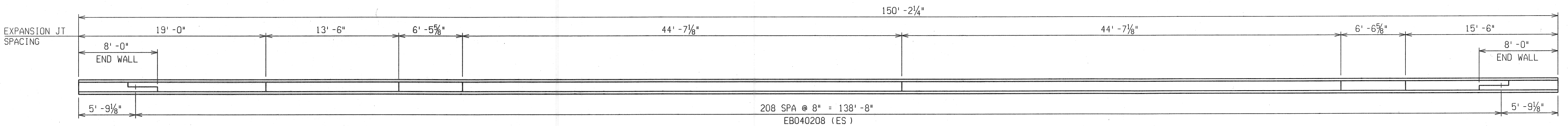




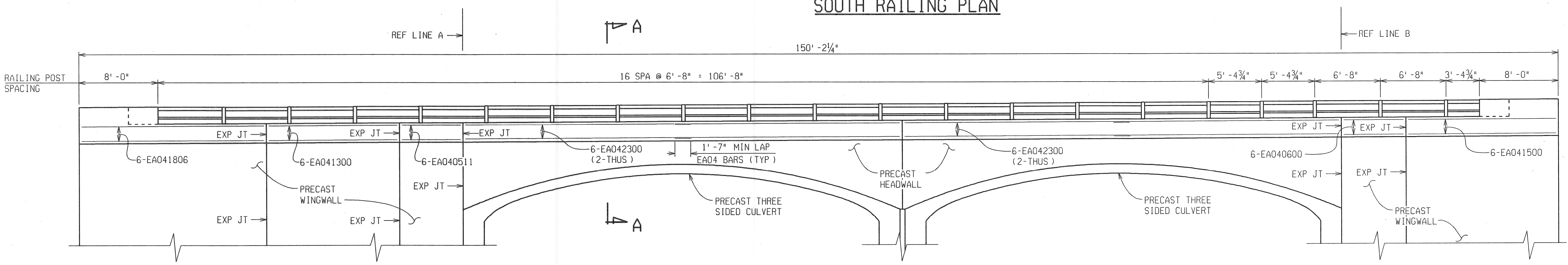
**NORTH RAILING PLAN**



**NORTH RAILING ELEVATION**  
INSIDE FACE SHOWN

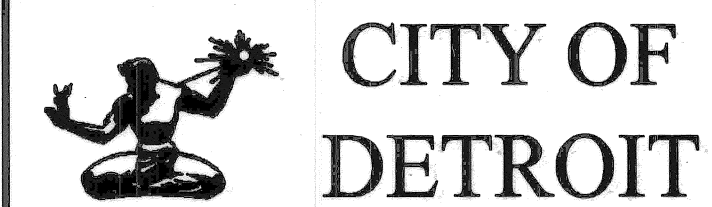
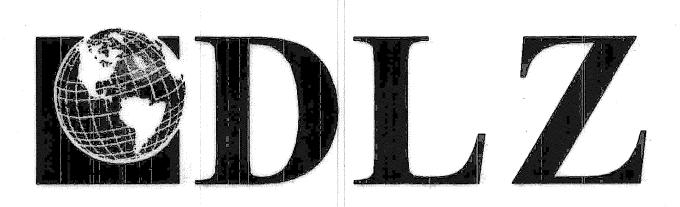


**SOUTH RAILING PLAN**



**SOUTH RAILING ELEVATION**  
OUTSIDE FACE SHOWN

REVISIONS	DESCRIPTION	DATE	BY



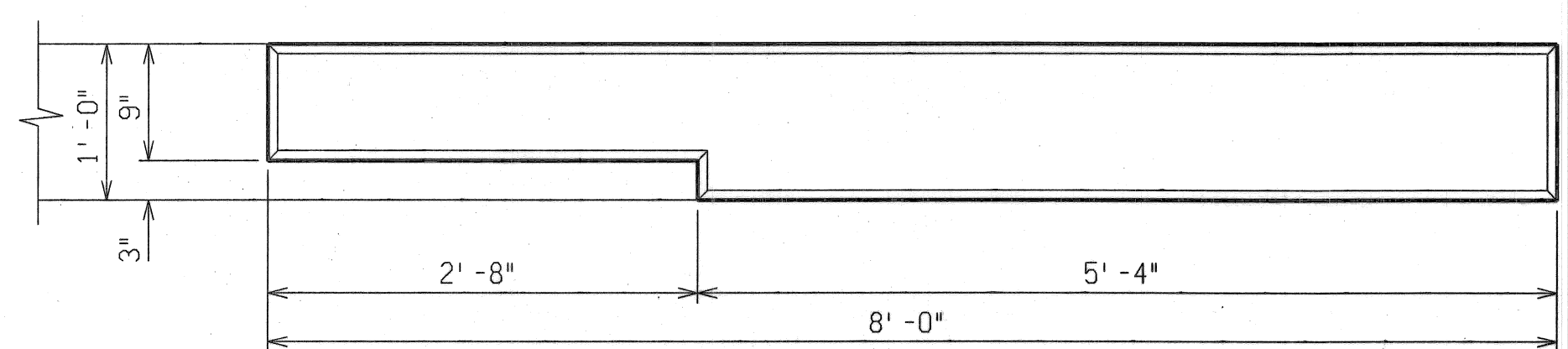
ANTIETAM AVENUE OVER  
DEQUINDRE CUT GREENWAY  
MDOT JOB NO. 83945A    STRUCTURE NO. S02 of 82-22-97

**SUPERSTRUCTURE DETAILS**

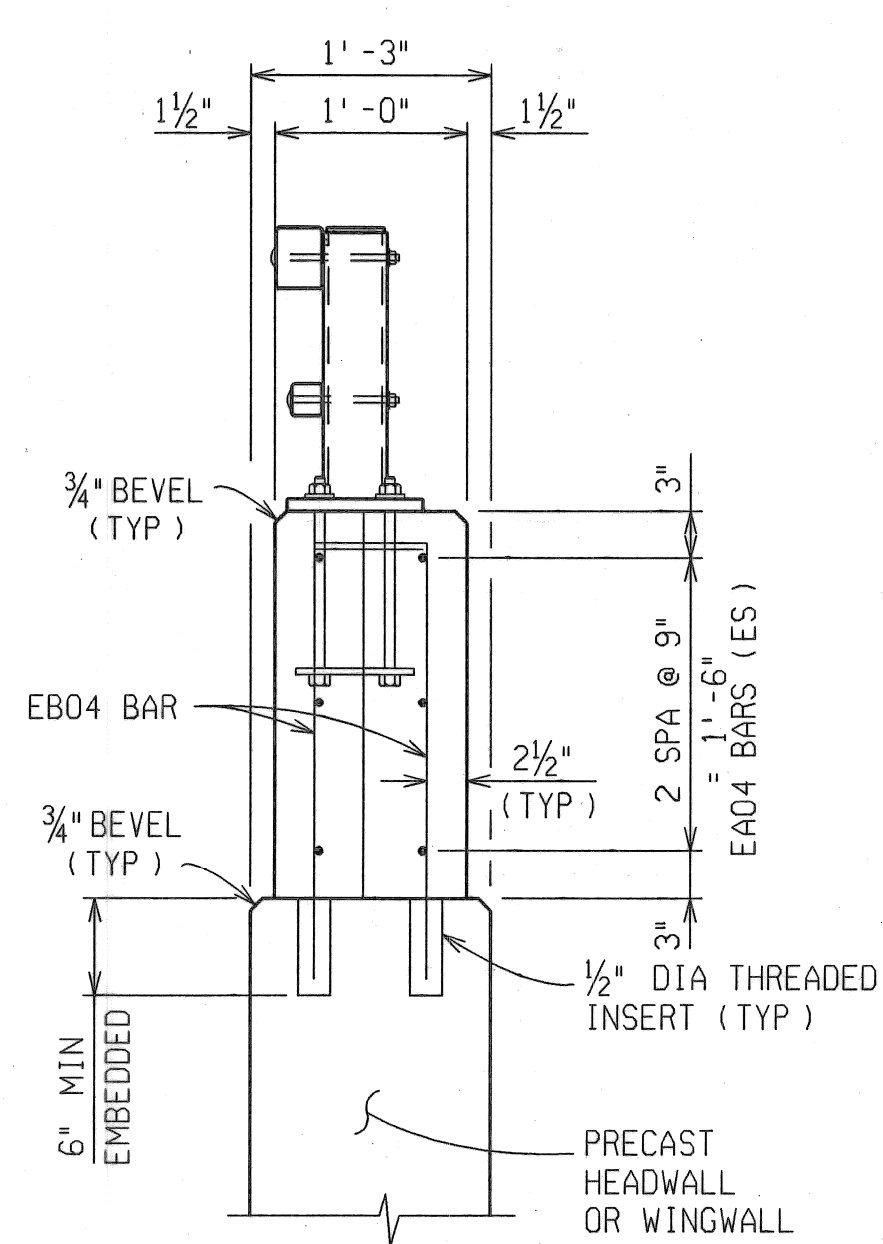
DATE: 4/13/07  
DLZ JOB NO. 0641-6053-00  
SHEET NO. 15 OF 48

FILE NAME: antietam-dk1.dgn    DRAWN BY: bmv    CHECKED BY: bmv    DATE: 9/1/06    CORRECTED BY: DLW    DATE: 9/12/06

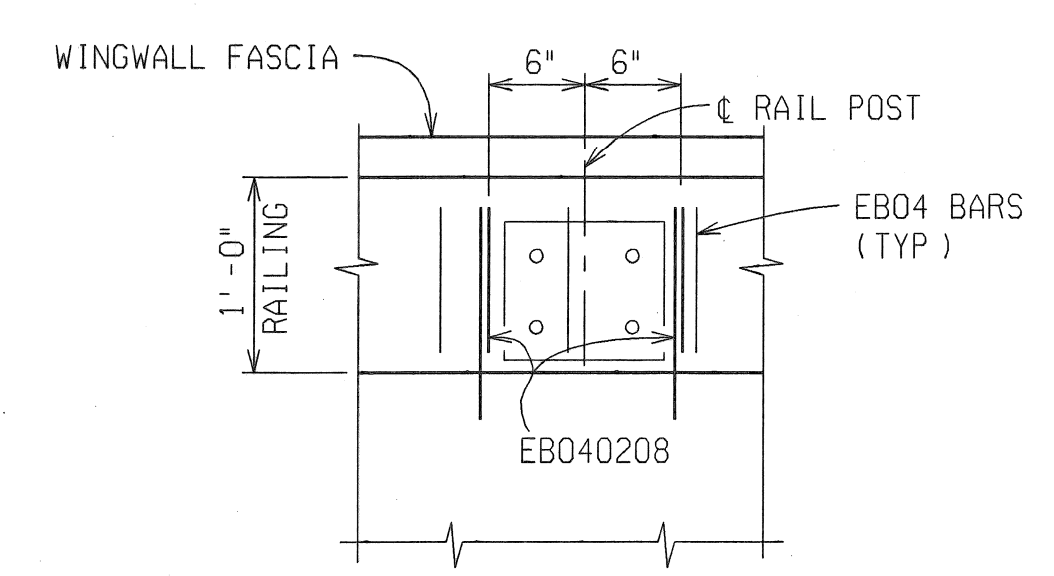




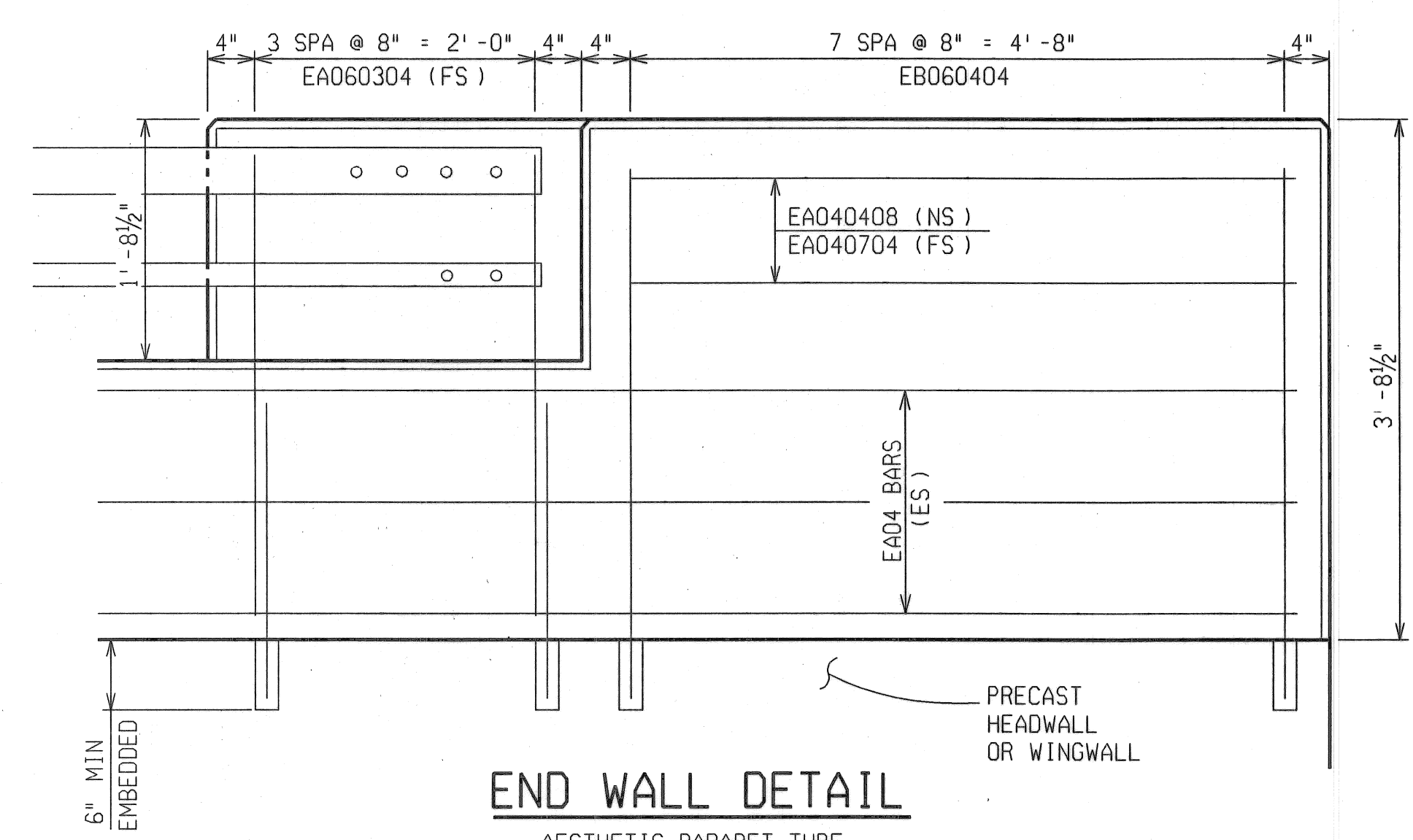
**PLAN - END WALL**  
AESTHETIC PARAPET TUBE



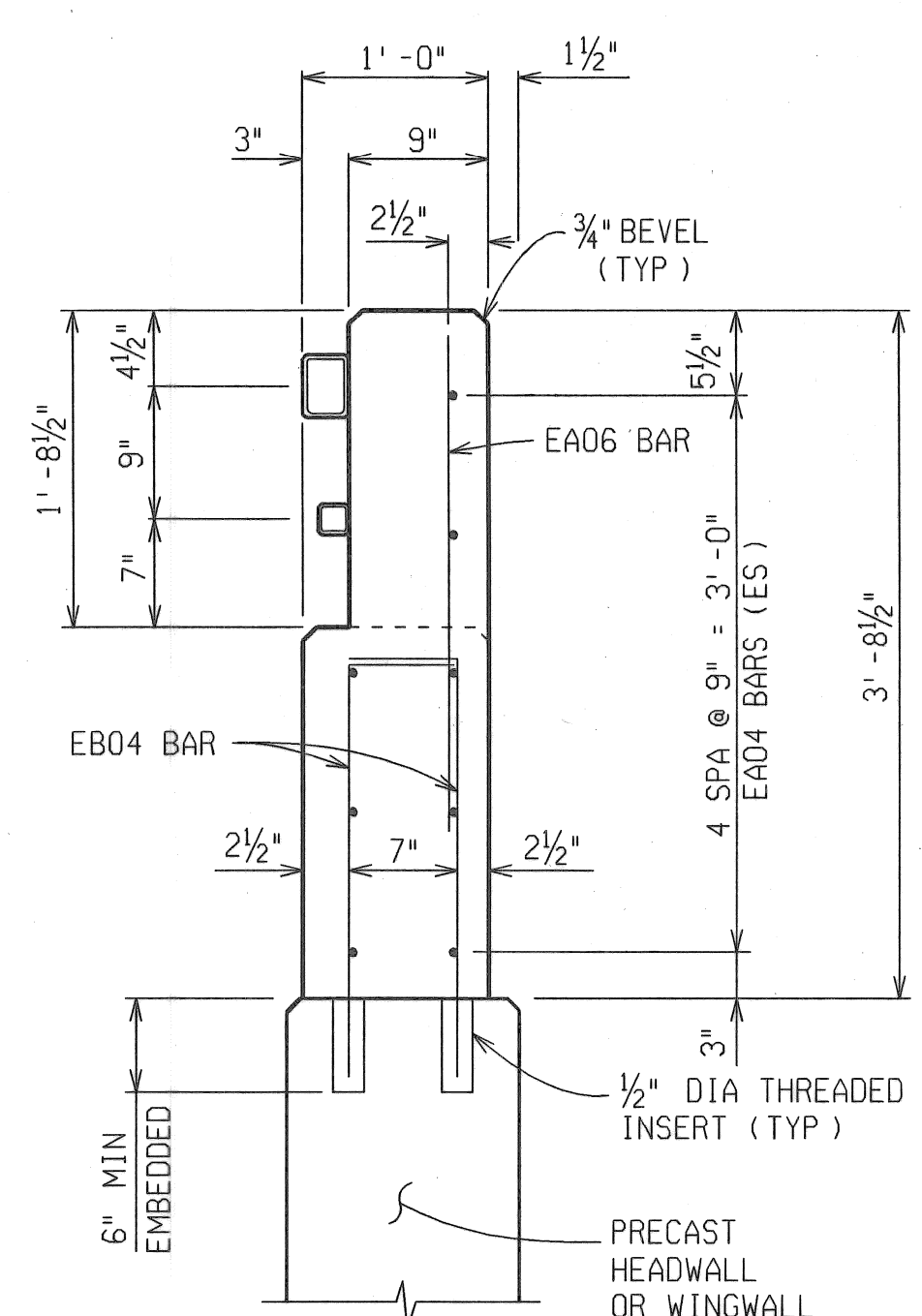
**SECTION A-A**  
(FULL CONCRETE AREA)



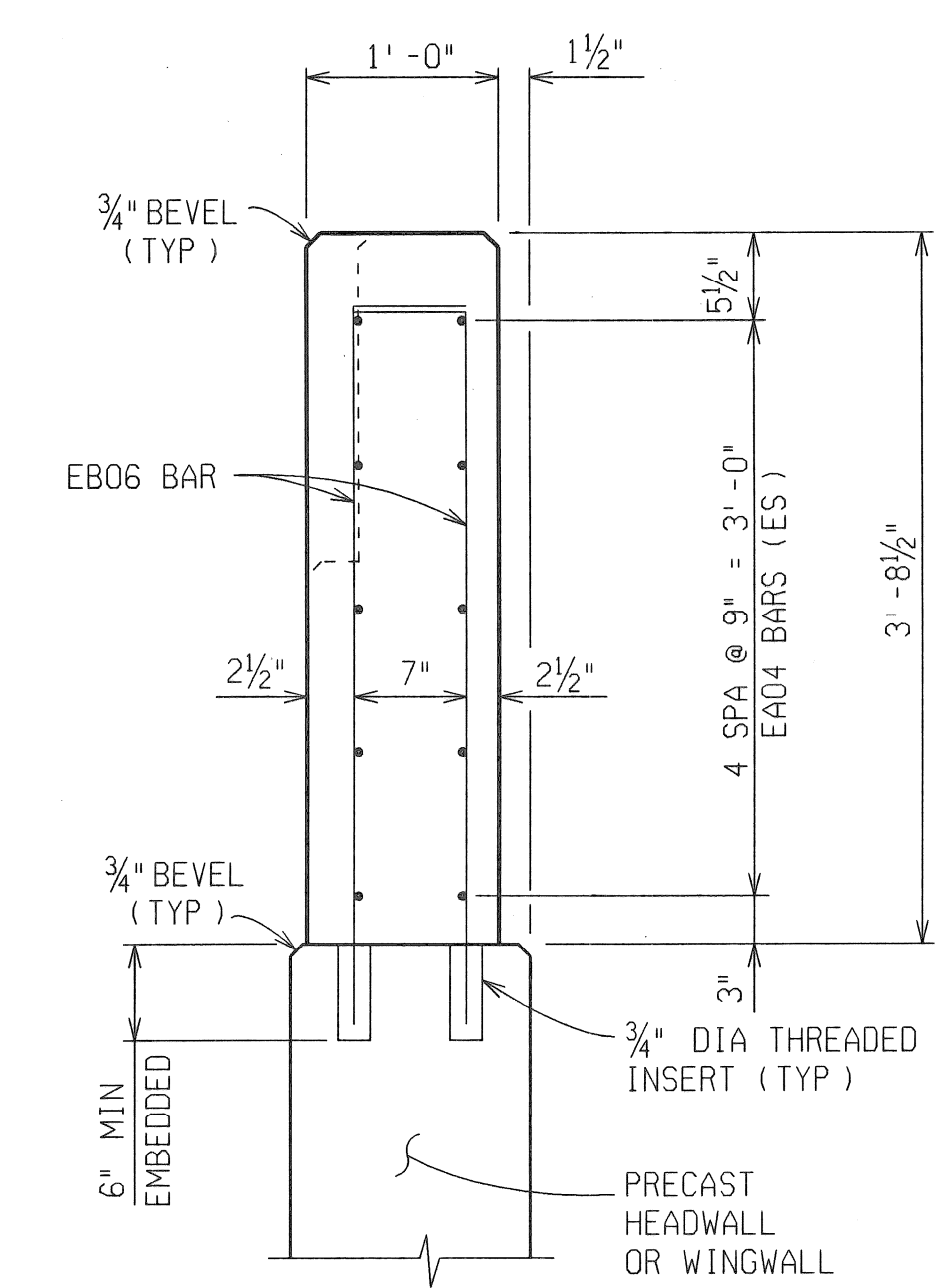
**RAIL POST DETAIL**  
(TYP 38 POSTS)



**END WALL DETAIL**  
AESTHETIC PARAPET TUBE



**SECTION AT END WALL**  
(TUBE CONNECTION AREA)



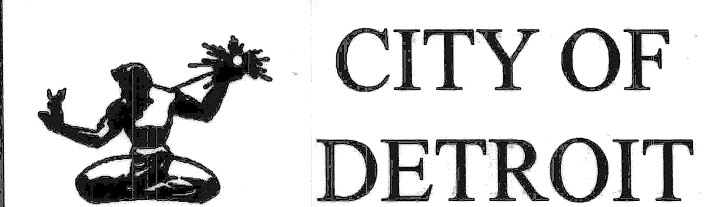
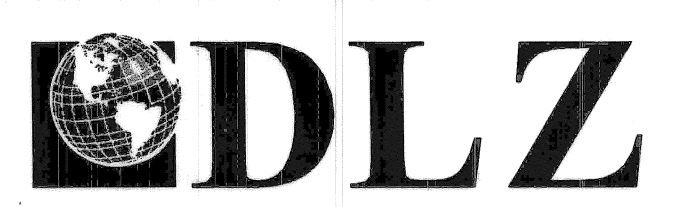
**SECTION AT END WALL**  
(FULL CONCRETE AREA)

MISCELLANEOUS QUANTITIES	
282	Ft Bridge Railing, Aesthetic Parapet Tube
5	Cyd Conc, Grade D

**NOTES:**

- NS DENOTES NEAR SIDE.
- FS DENOTES FAR SIDE.
- ES DENOTES EACH SIDE.
- FOR BEVEL AND MOLDING DETAILS, SEE STANDARD PLAN B-103 SERIES.
- WORK THIS SHEET WITH SHEET 15 OF 48.

REVISIONS	DESCRIPTION	DATE	BY

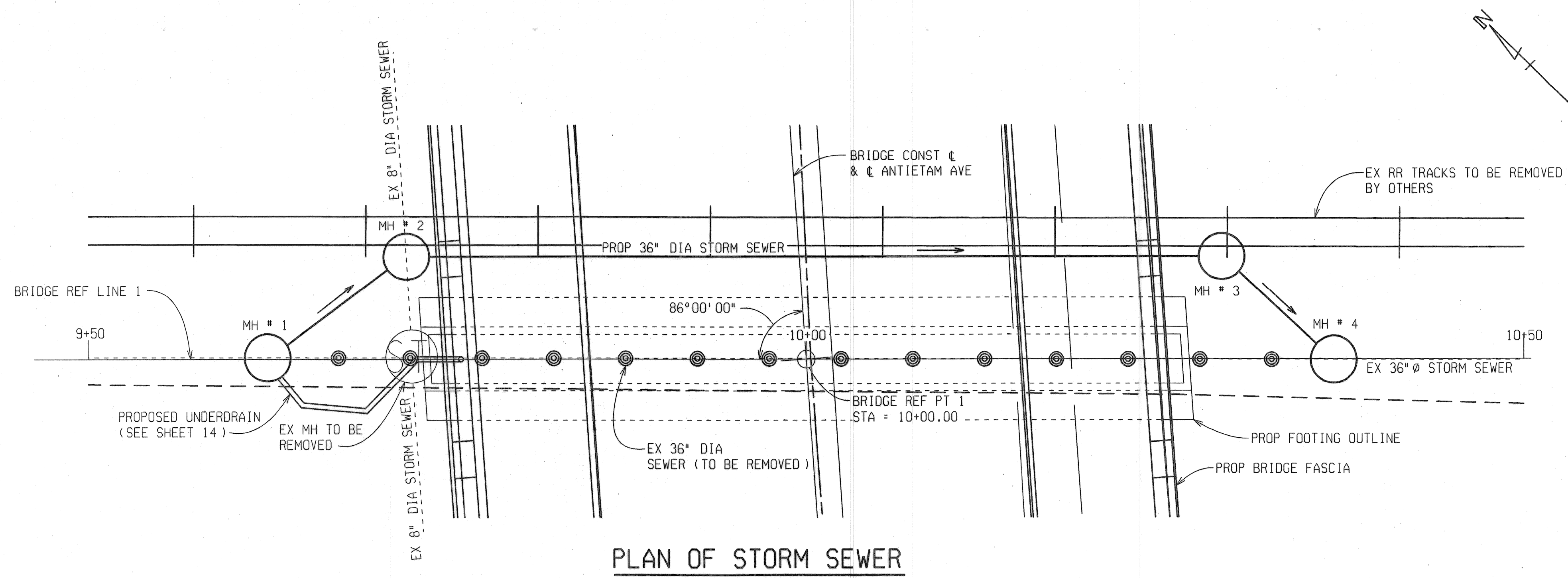


ANTIETAM AVENUE OVER  
DEQUINDRE CUT GREENWAY  
MDOT JOB NO. 83945A STRUCTURE NO. S02 of 82-22-97

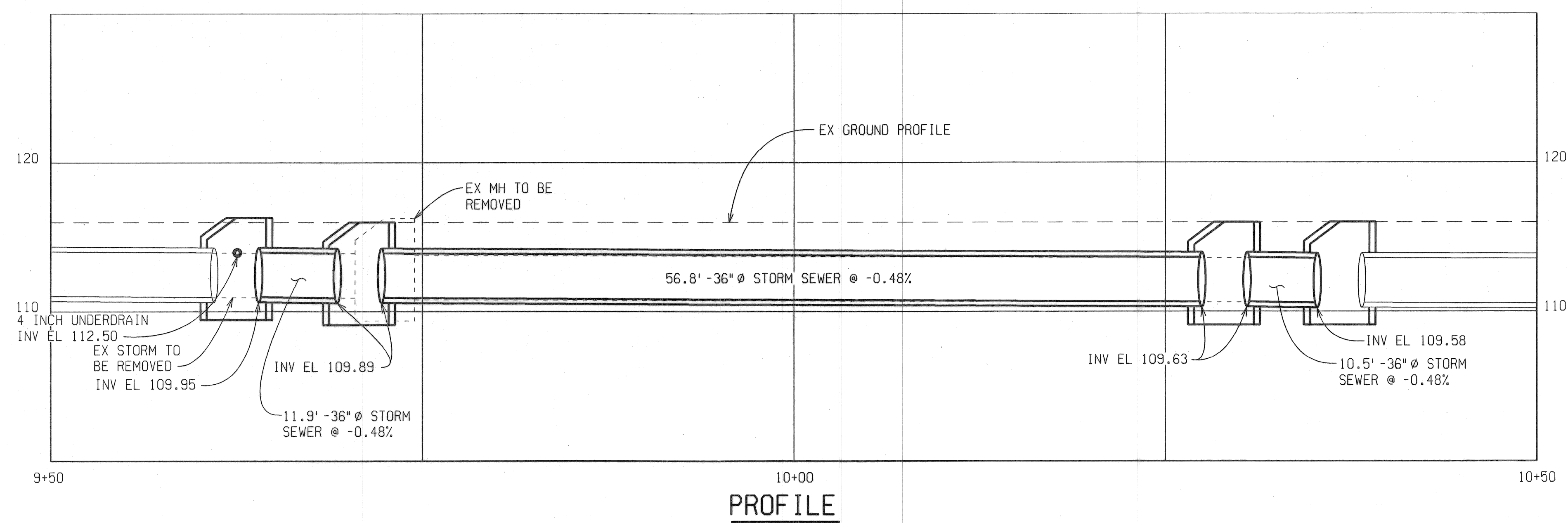
**SUPERSTRUCTURE DETAILS**

DATE:	4/13/07
DLZ JOB NO.	0641-6053-00
SHEET NO.	16 OF 48





PLAN OF STORM SEWER

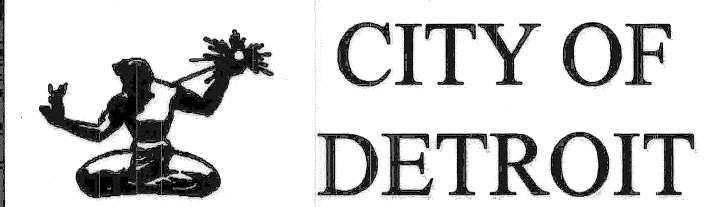
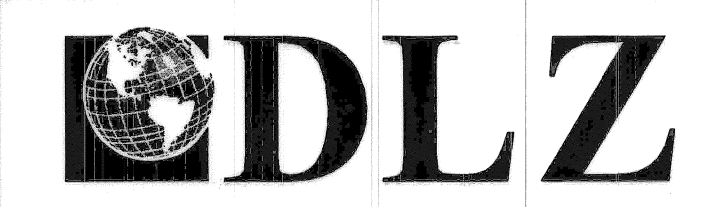


PROFILE

MISCELLANEOUS QUANTITIES	
80	Ft Sewer, CI C 76 IV, 36 inch, Tr Det B, Modified
4	Ea Manhole, 4 Foot, Standard, Modified
25	Ft Sewer Cleanout, Modified
80	Ft Video Taping Sewer and Culv Pipe
1	Ea Sewer Tap, 8 inch

\* PERFORATED, DOMED COVER

REVISIONS	DESCRIPTION	DATE	BY



ANTIETAM AVENUE OVER  
DEQUINDRE CUT GREENWAY  
MDOT JOB NO. 83945A | STRUCTURE NO. S02 of 82-22-97

STORM SEWER DETAILS

DATE: 4/13/07  
DLZ JOB NO. 0641-6053-00  
SHEET NO. 17 OF 48

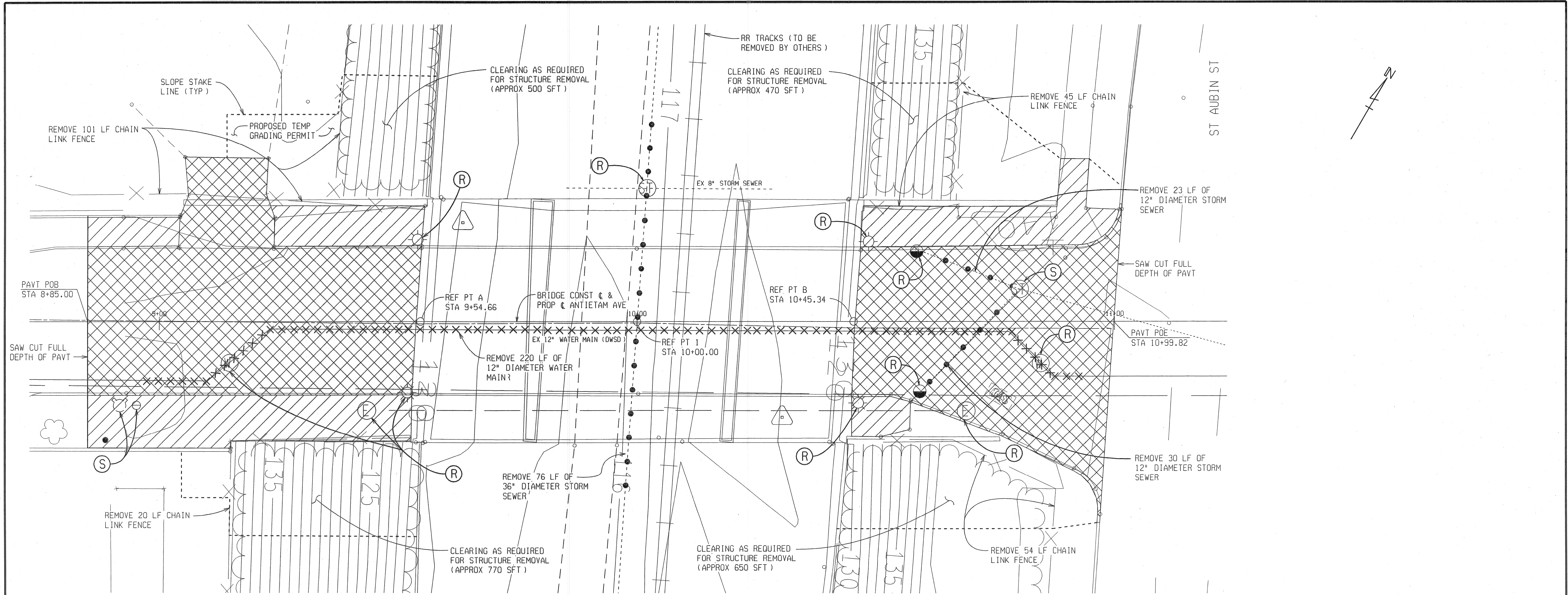
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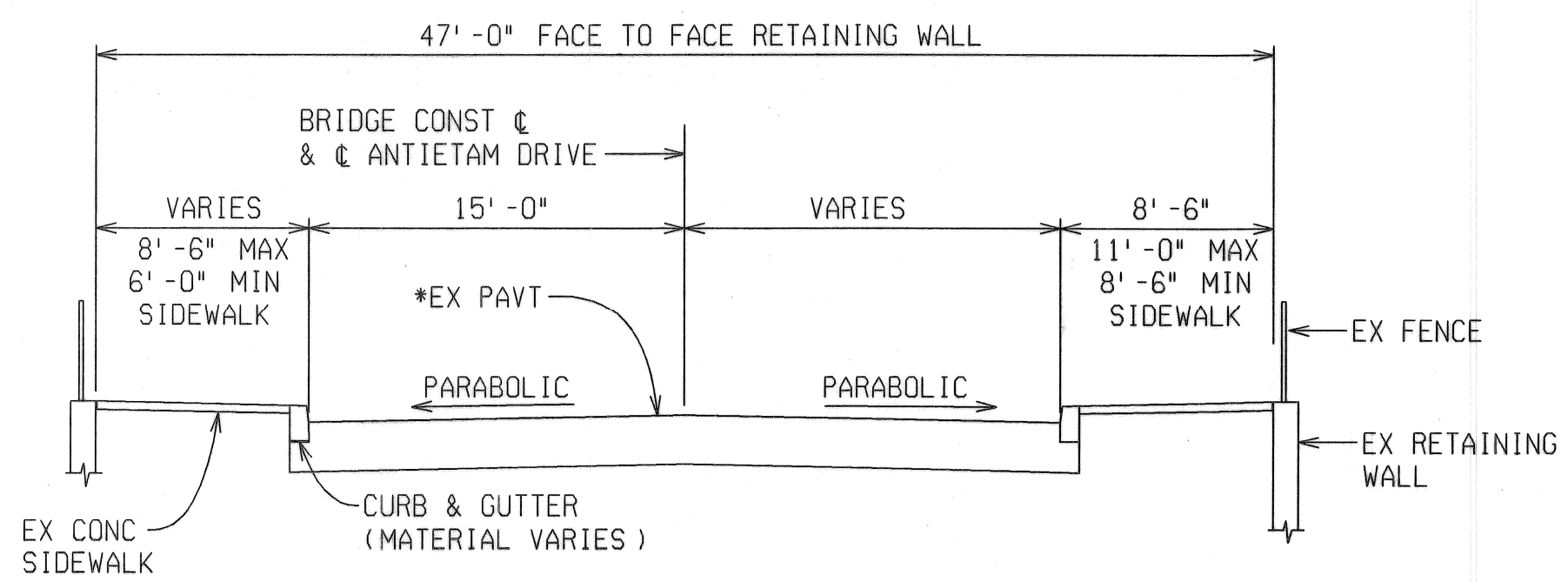




DATE: 9/12/06  
CORRECTED BY: DLW  
DATE: 1/10/05  
CHECKED BY: BMW  
DATE: 9/8/06  
DRAWN BY: BMW  
FILE NAME: anti-etam-app1.dgn

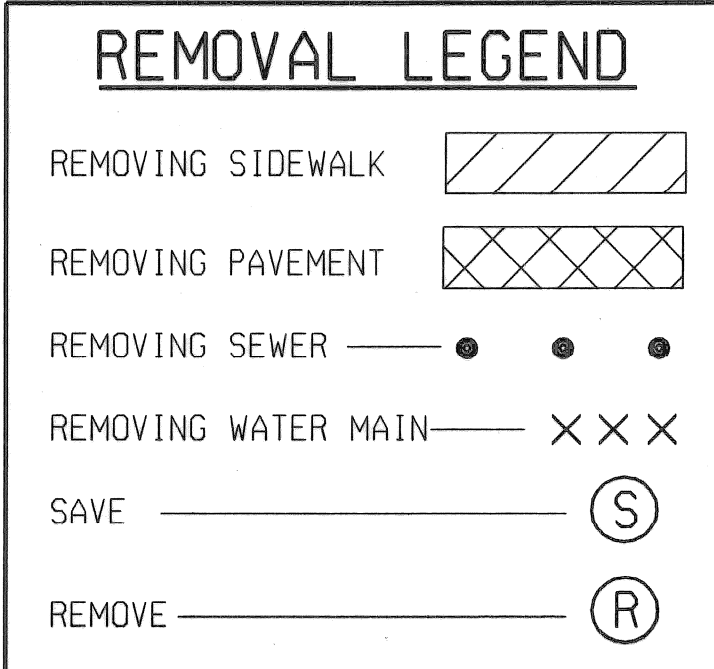


PLAN OF APPROACH



EXISTING APPROACH SECTION

(LOOKING EAST)  
\* EX PAVEMENT CONTAINS LAYERS OF CONCRETE, GRAVEL AND HMA  
SEE LOG OF BORING SHEETS 5 AND 6 FOR FURTHER INFORMATION



MISCELLANEOUS QUANTITIES		
PARTICIPATING QUANTITY	NON-PARTICIPATING QUANTITY	ITEM
0.1		Acre Clearing
3		Ea Dr Structure, Rem
220		Ft Fence, Rem
190		Syd Sidewalk, Rem
53		Ft Sewer, Rem, Less than 24 inch
75		Ft Sewer, Rem, 24 inch to 48 inch
506		Syd Pavt, Rem, Modified
220		Ft Water Main, Rem

**NOTES:**

SEE SHEET 7 OF 48 FOR WATER MAIN DETAILS.

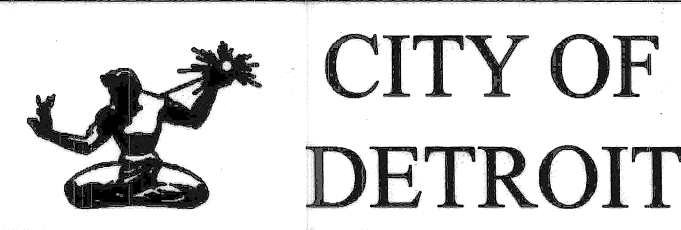
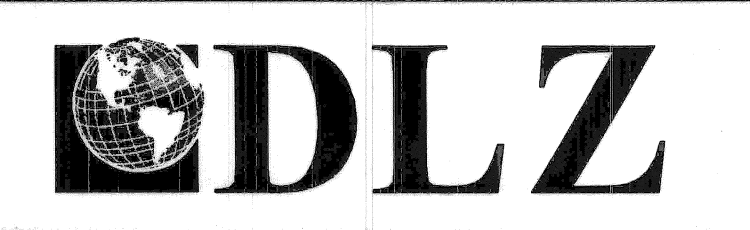
SEE SHEET 17 OF 48 FOR STORM SEWER DETAILS.

SEE SHEETS 26-48 OF 48 FOR ELECTRICAL DETAILS.

SAWCUTTING IS INCLUDED IN THE PAY ITEM "Pavt, Rem, Modified" and "Sidewalk, Rem".

CURB REMOVAL IS INCLUDED IN THE PAY ITEM "Pavt, Rem, Modified".

REVISIONS	DESCRIPTION	DATE	BY



ANTIETAM AVENUE OVER DEQUINDRE CUT GREENWAY

MDOT JOB NO. 83945A STRUCTURE NO. S02 of 82-22-97

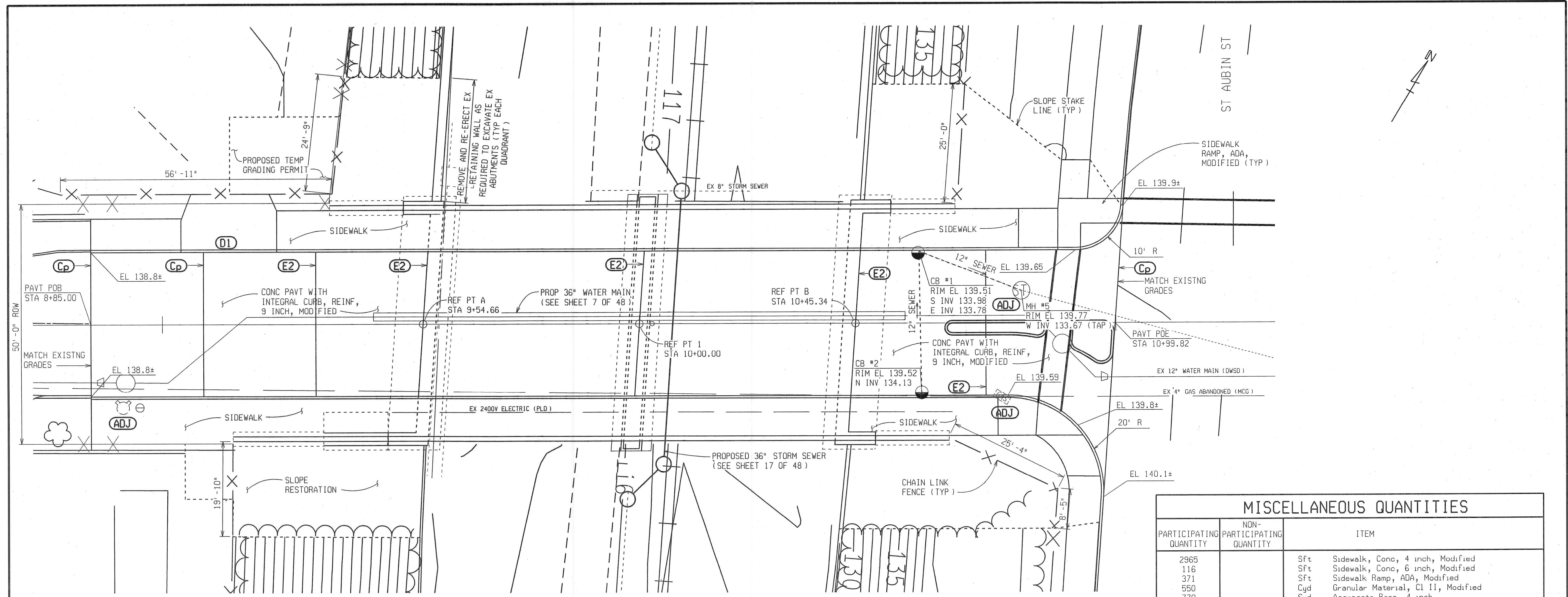
DATE: 4/13/07

DLZ JOB NO. 0641-6053-00

APPROACH REMOVAL DETAILS

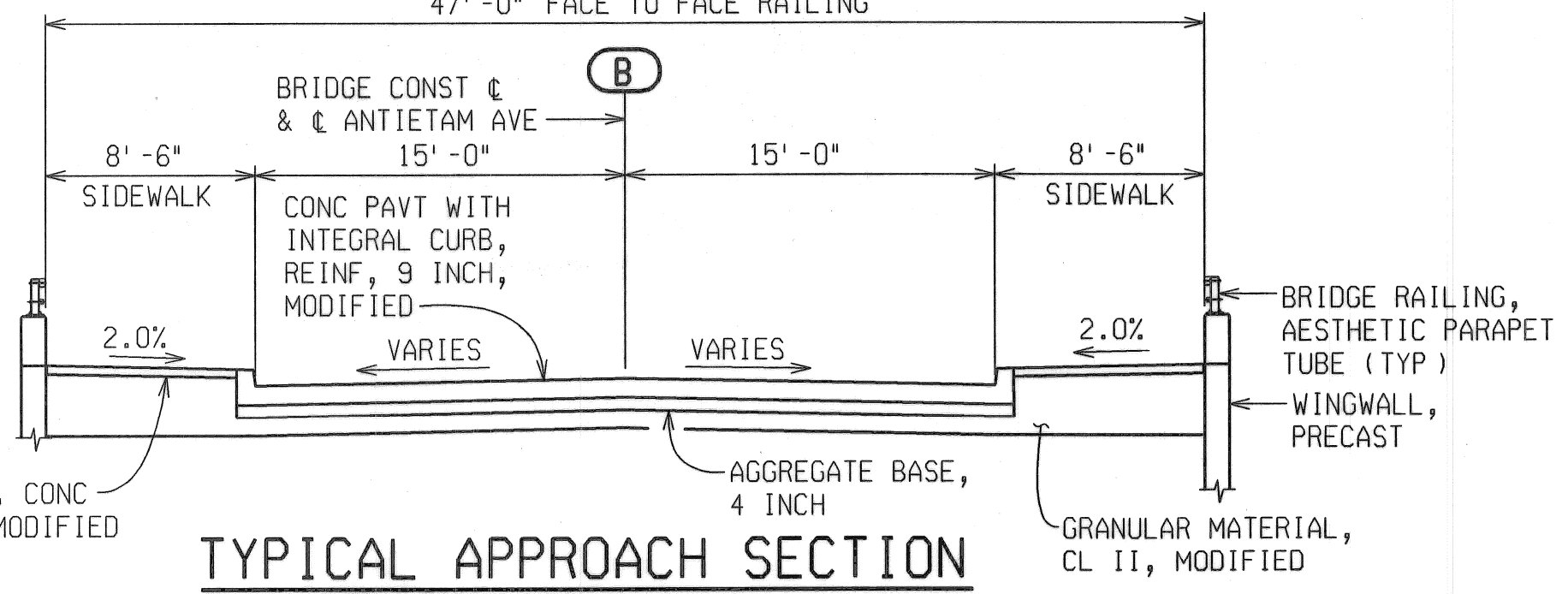
SHEET NO. 19 OF 48



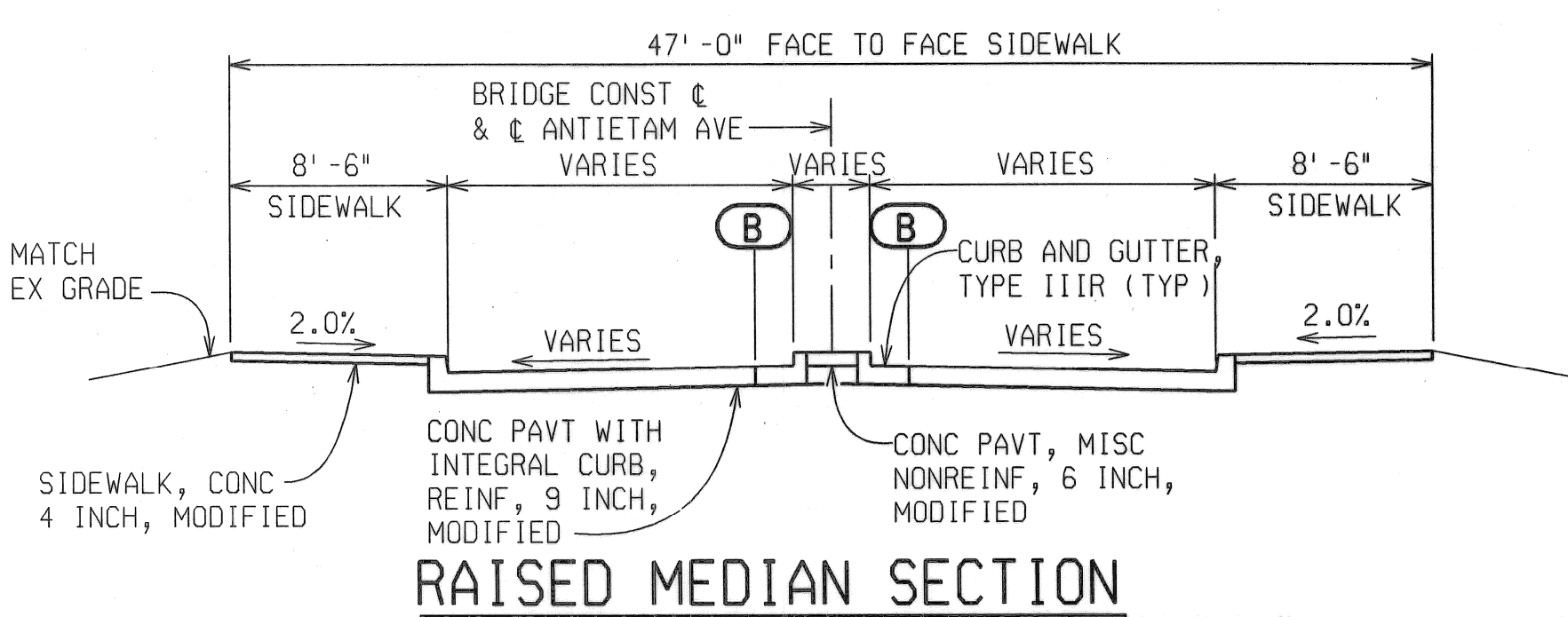


**PLAN OF APPROACH**

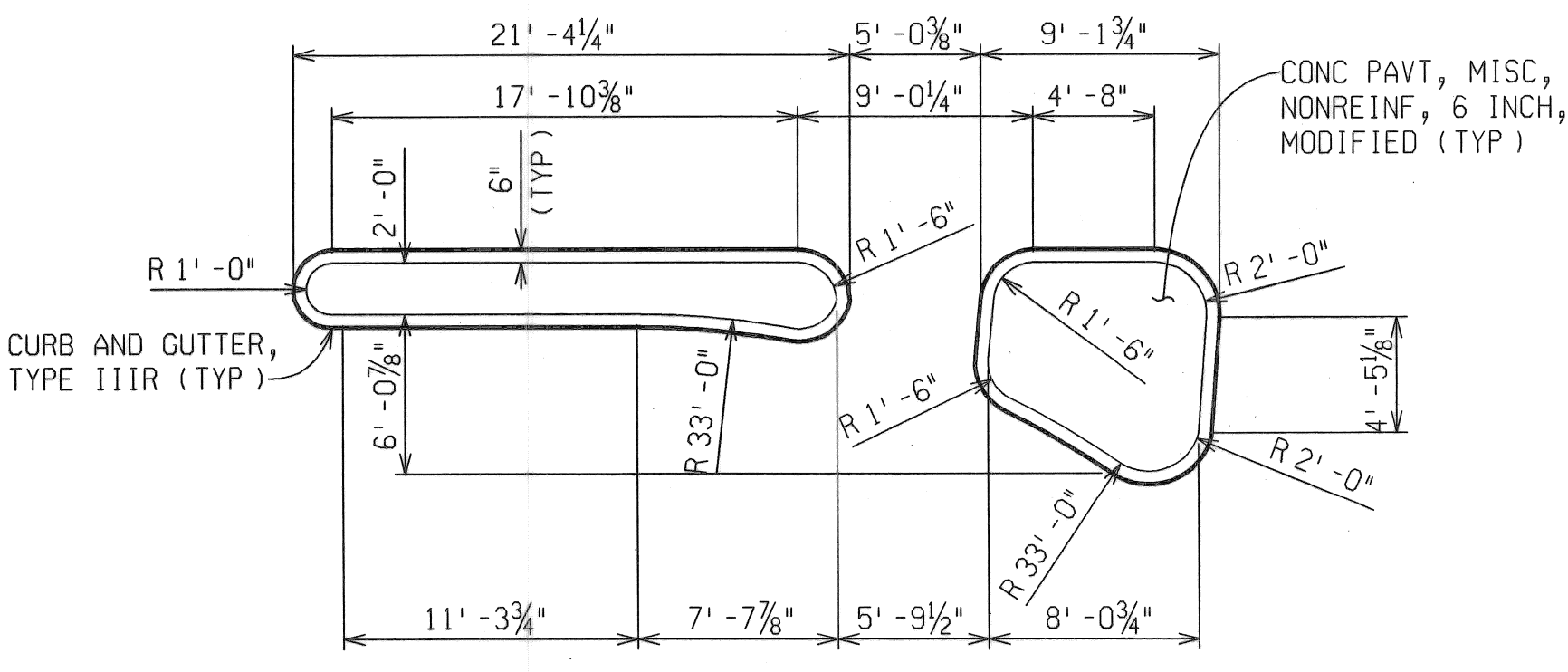
MISCELLANEOUS QUANTITIES		
PARTICIPATING QUANTITY	NON-PARTICIPATING QUANTITY	ITEM
2965		Sft Sidewalk, Conc, 4 inch, Modified
116		Sft Sidewalk, Conc, 6 inch, Modified
371		Sft Sidewalk Ramp, ADA, Modified
550		Cyd Granular Material, Cl II, Modified
779		Syd Aggregate Base, 4 inch
779		Syd Conc Pavt with Integral Curb, Reinf, 9 Inch, Modified
120		Ft Joint, Expansion, E2
128		Ft Joint, Contraction, Cp
20		Ft Joint, Plane-of-Weakness, D1
161		Ft Fence, Chain Link, 48 inch
53		Ft Sewer, Cl C 76 IV, 12 inch, Tr Det B, Modified
1		Ea Catch Basin A, Modified
1		Ea Catch Basin B with Trap, Modified
1		Ea Dr Structure Cleaning, Modified
1		Ea Dr Structure Cover, Adj, Case 2, Modified
25		Ft Sewer Cleanout, Modified
11		Syd Conc Pavt, Misc, Nonreinf, 6 inch, Modified
71		Ft Curb and Gutter, Type IIIIR
2		Ea Water Shutoff, Adj, Modified
1		Ea Sewer Tap, 12 inch



**TYPICAL APPROACH SECTION**



**RAISED MEDIAN SECTION**



**RAISED MEDIAN DETAIL**

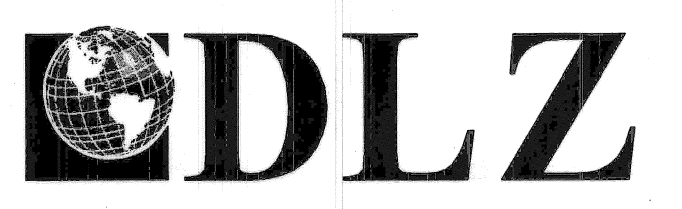
**LEGEND**

ADJUST DR STR RIM	— (ADJ)
JOINT, EXPANSION, E3	— (E3)
JOINT, EXPANSION, E2	— (E2)
JOINT, PLANE OF WEAKNESS	— (D1)
LONGITUDINAL BULKHEAD JOINT	— (B)
JOINT, CONTRACTION, CP	— (Cp)

**NOTES:**

- CB#1 SHALL BE "Catch Basin A, Modified".
- CB#2 SHALL BE "Catch Basin B with Trap, Modified".
- FOR BRIDGE RAILING DETAILS AND QUANTITIES, SEE SHEET 16 OF 48.
- SEE SPECIAL PROVISION FOR SIDEWALK CONC, -- INCH, MODIFIED FOR LOCATIONS OF 4 INCH AND 6 INCH SIDEWALK.

REVISIONS	DESCRIPTION	DATE	BY

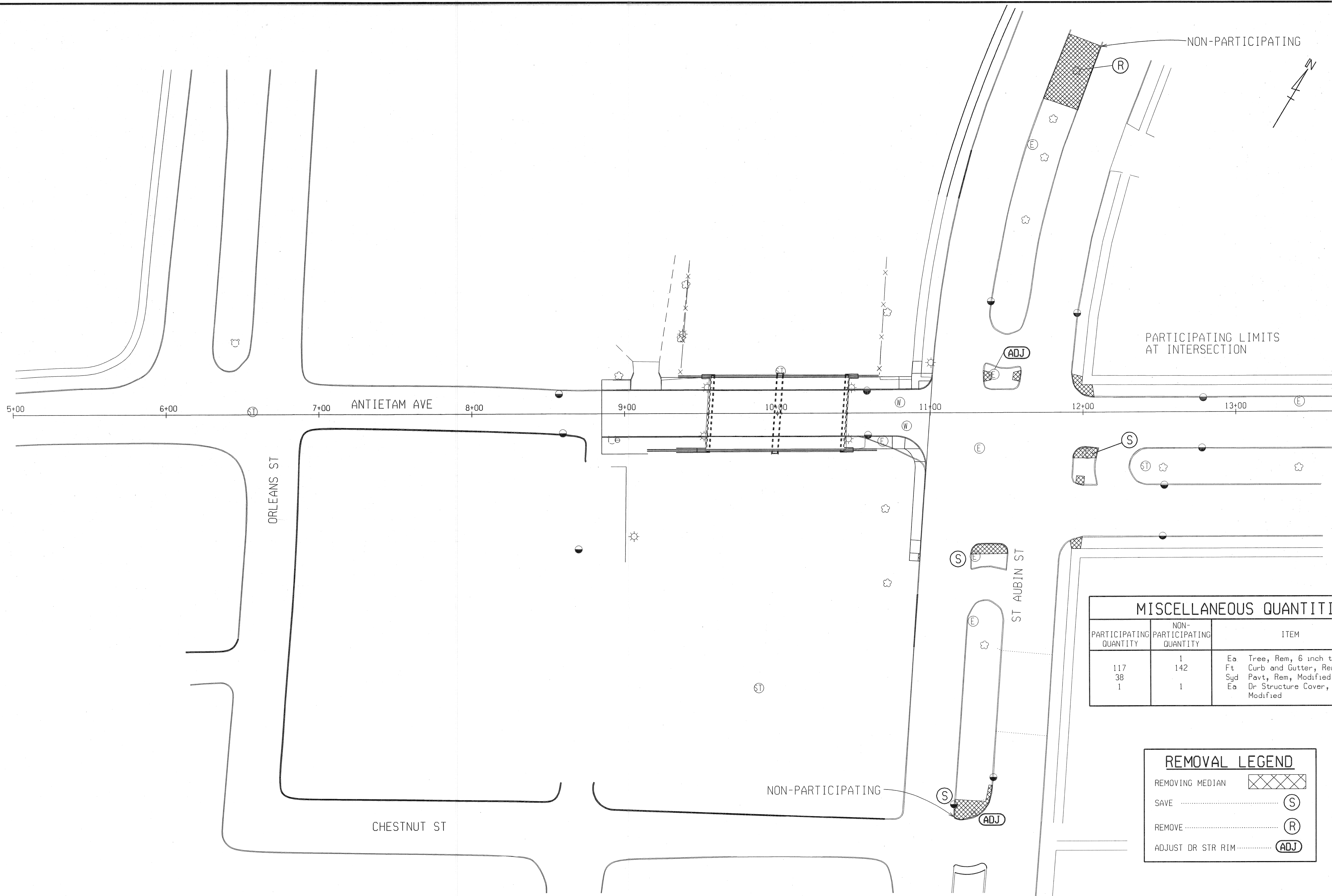


**ANTIETAM AVENUE OVER DEQUINDRE CUT GREENWAY**  
 MDOT JOB NO. 83945A    STRUCTURE NO. S02 of 82-22-97

**APPROACH CONSTRUCTION DETAILS**

DATE: 4/13/07  
 DLZ JOB NO. 0641-6053-00  
 SHEET NO. 20 OF 48

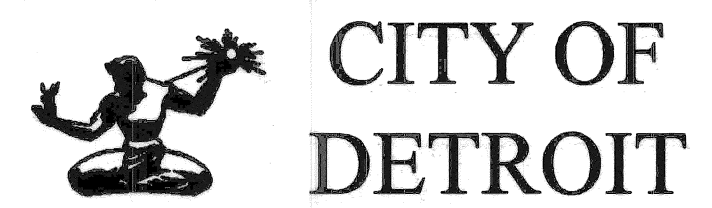
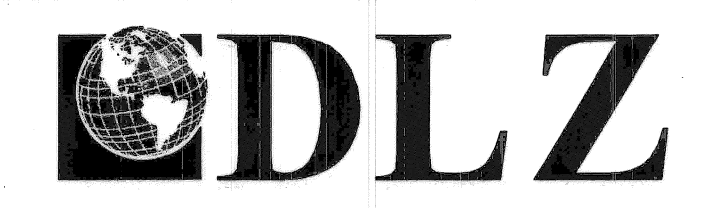
DATE: 2/1/07  
CORRECTED BY: TNB  
DATE: 1/31/07  
CHECKED BY: AJH  
DATE: 1/25/07  
DRAWN BY: TNB  
FILE NAME: anti-etam-app3.dgn



MISCELLANEOUS QUANTITIES		
PARTICIPATING QUANTITY	NON-PARTICIPATING QUANTITY	ITEM
117	1	Ea Tree, Rem, 6 inch to 18 inch
38	142	Ft Curb and Gutter, Rem
1	1	Sjd Pavt, Rem, Modified
		Ea Dr Structure Cover, Adj, Case 2, Modified

REMOVAL LEGEND	
REMOVING MEDIAN	
SAVE	
REMOVE	
ADJUST DR STR RIM	

REVISIONS	DESCRIPTION	DATE	BY

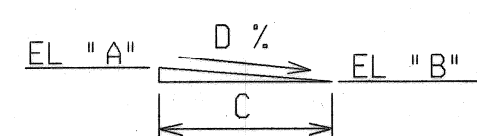


ANTIETAM AVENUE OVER  
DEQUINDRE CUT GREENWAY  
MDOT JOB NO. 83945A    STRUCTURE NO. S02 of 82-22-97

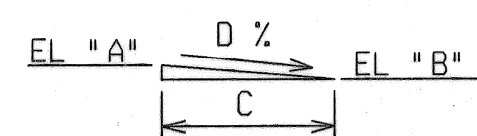
TRAFFIC IMPROVEMENT  
REMOVAL DETAILS

DATE: 4/13/07  
DLZ JOB NO. 0641-6053-00  
SHEET NO. 21 OF 48

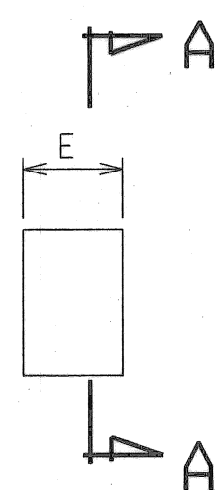




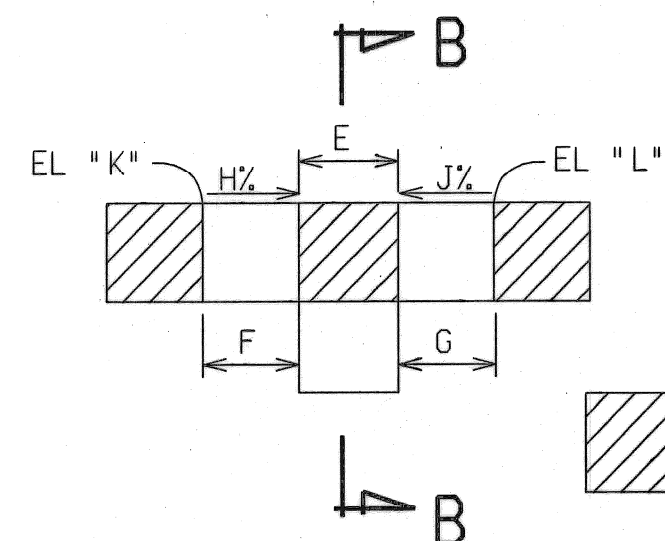
SECTION A-A



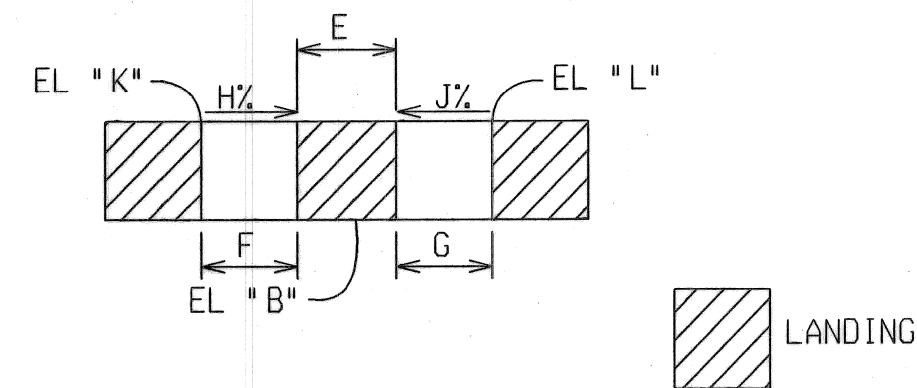
SECTION B-B



SIDEWALK RAMP TYPE R



SIDEWALK RAMP TYPE C

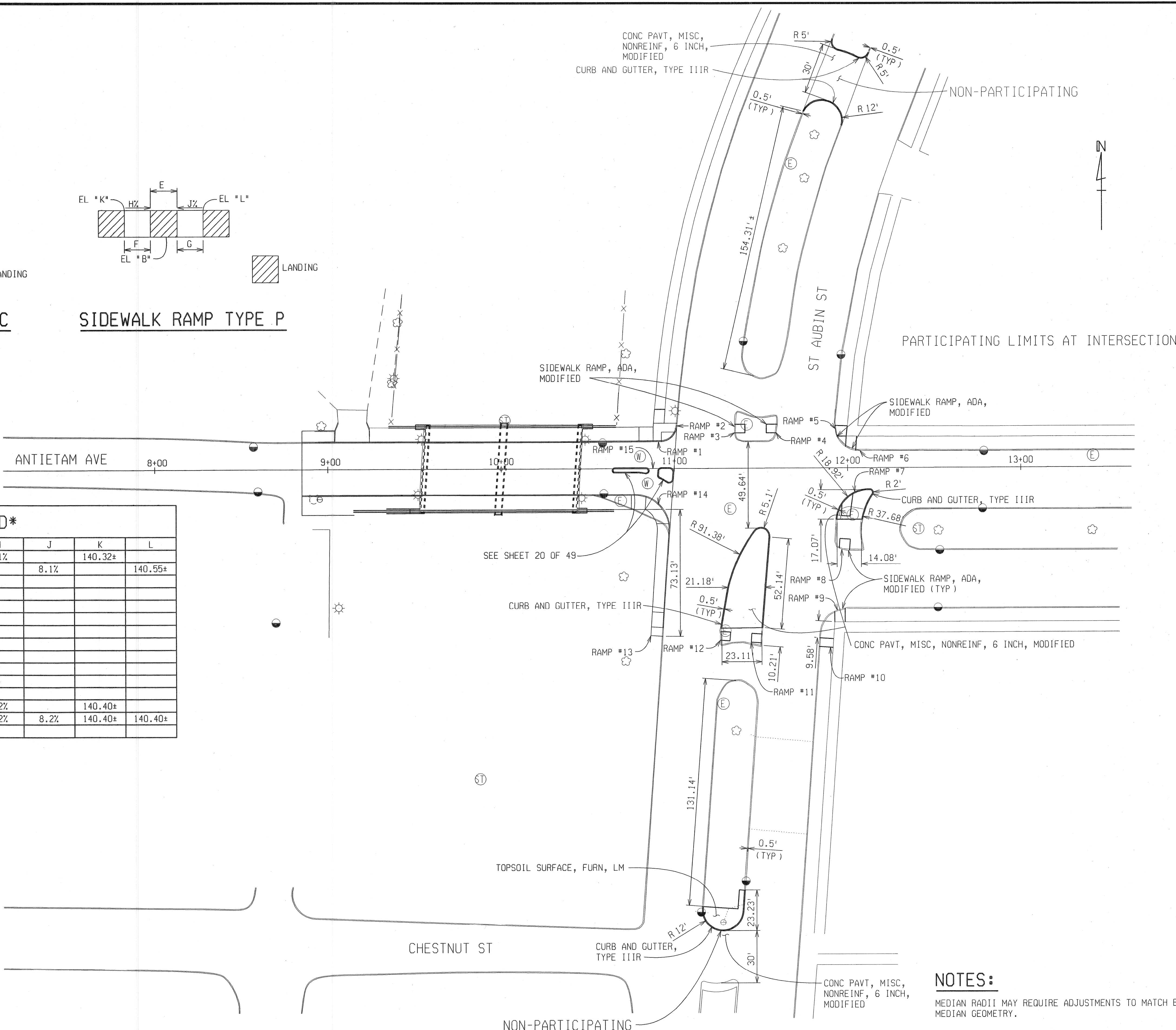


SIDEWALK RAMP TYPE P

SIDEWALK RAMP, ADA, MODIFIED*												
RAMP	TYPE	A	B	C	D	E	F	G	H	J	K	L
1	P		139.65±			5'-0"	8'-3"	8'-0"	8.1%		140.32±	
2	C	139.90±	139.90±	7'-6"	0.0%	5'-0"		8'-0"		8.1%		140.55±
3	R	139.35±	139.70±	5'-6"	6.4%	5'-0"						
4	R	139.25±	139.70±	5'-6"	8.2%	5'-0"						
5	R	138.35±	139.70±	5'-0"	7.0%	6'-0"						
6	R	138.20±	139.70±	6'-0"	8.3%	6'-0"						
7	R	138.35±	138.90±	7'-0"	7.9%	5'-0"						
8	R	138.63±	139.00±	5'-0"	7.4%	6'-0"						
9	R	138.45±	138.85±	5'-6"	7.3%	6'-0"						
10	R	138.55±	138.95±	7'-9"	5.2%	5'-0"						
11	R	138.75±	139.20±	5'-6"	8.2%	5'-0"						
12	R	139.45±	139.70±	5'-0"	5.0%	5'-0"						
13	P		139.70±			5'-0"	8'-6"		8.2%		140.40±	
14	P		139.70±			6'-0"	8'-6"		8.2%	8.2%	140.40±	140.40±
15	M											

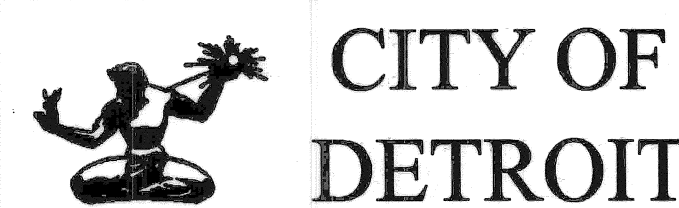
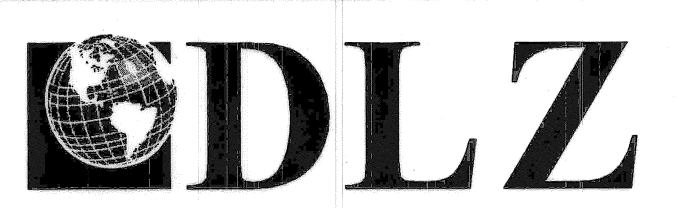
\*SEE SPECIAL PROVISION FOR SIDEWALK RAMP, ADA, MODIFIED AND MDOT STANDARD PLAN R-28-F FOR DETAILS

MISCELLANEOUS QUANTITIES		
PARTICIPATING QUANTITY	NON-PARTICIPATING QUANTITY	ITEM
169	114	Ft Curb and Gutter, Type IIIIR
244	114	Syd Conc Pavt, Misc, Nonreinf, 6 inch, Modified
470	1	Cyd Topsoil Surface, Furn, LM
345		Sft Sidewalk Ramp, ADA, Modified
		Sft Sidewalk, Conc, 4 inch, Modified



**NOTES:**  
 MEDIAN RADII MAY REQUIRE ADJUSTMENTS TO MATCH EXISTING MEDIAN GEOMETRY.

REVISIONS	DESCRIPTION	DATE	BY



ANTIETAM AVENUE OVER DEQUINDRE CUT GREENWAY  
 MDOT JOB NO. 83945A STRUCTURE NO. S02 of 82-22-97

TRAFFIC IMPROVEMENT CONSTRUCTION DETAILS

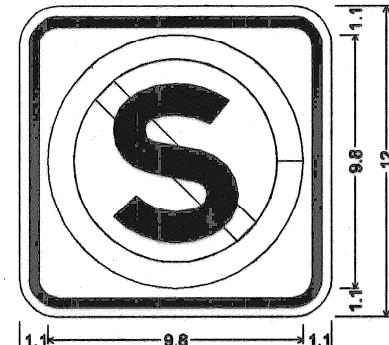
DATE: 4/13/07  
 DLZ JOB NO. 0641-6053-00  
 SHEET NO. 22 OF 48

FILE NAME: antietam-app4.dgn DRAWN BY: TNB CHECKED BY: AJH DATE: 1/25/07 DATE: 1/31/07 CORRECTED BY: TNB DATE: 2/17/07

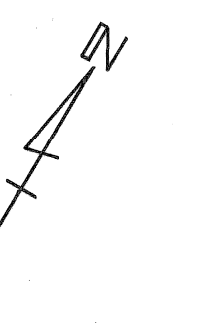
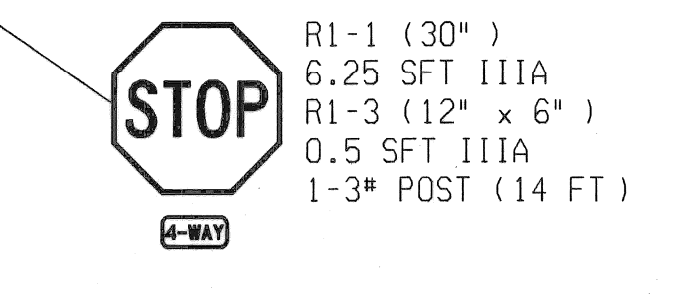
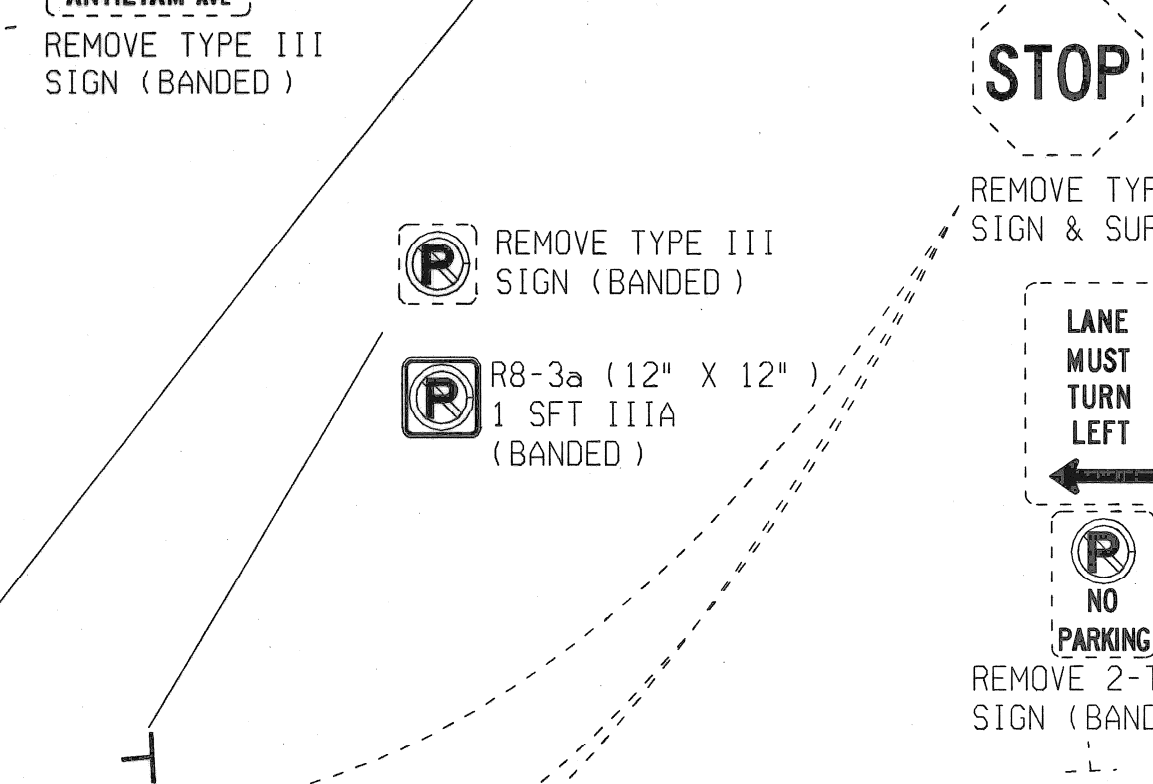
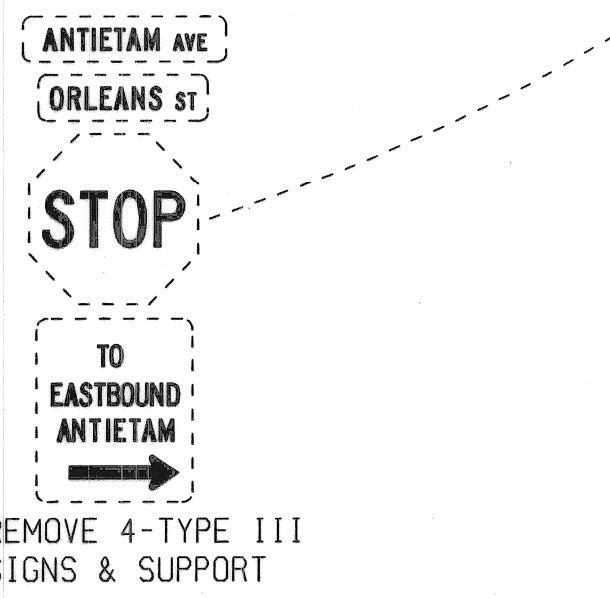
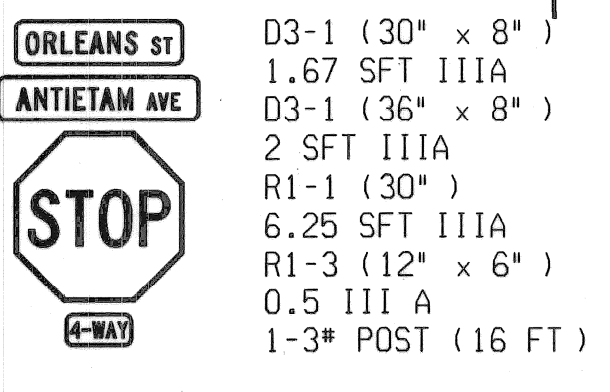
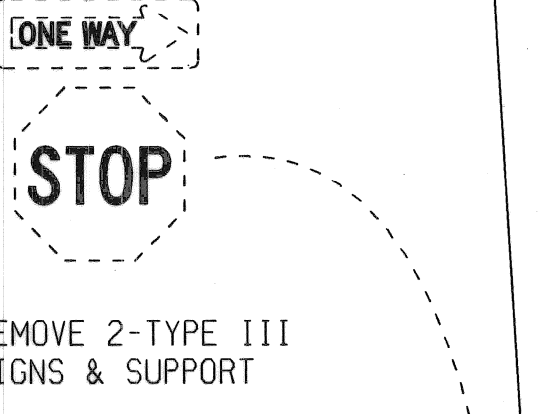
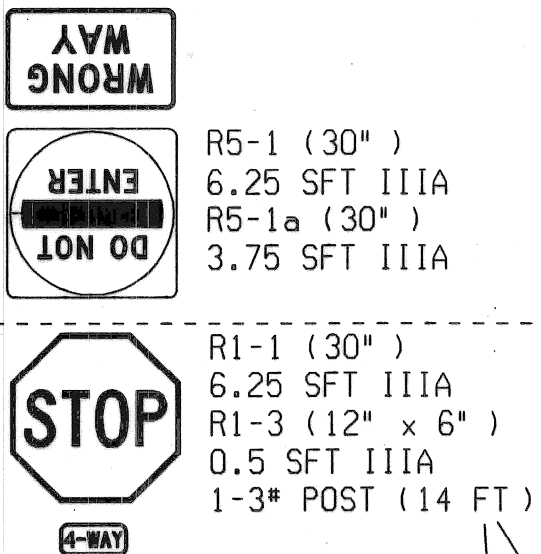








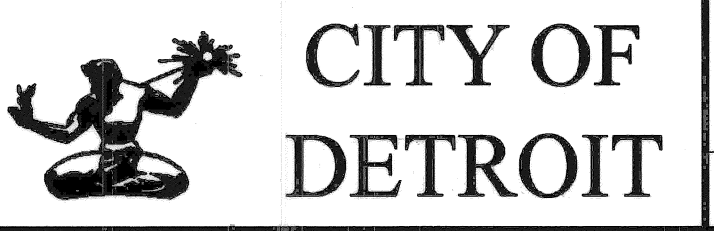
SPECIAL DETAIL A



MISCELLANEOUS QUANTITIES		
PARTICIPATING QUANTITY	NON-PARTICIPATING QUANTITY	ITEM
	16	Ea Sign, Type III, Rem
	62	Sft Sign, Type IIIA
	74	Ft Post, Steel, 3 lb
	3	Ea Band, Sign

NOTES:  
RETAIN THE EXISTING APARTMENT WATCH SIGN, SPEED LIMIT AND NO TRUCK SIGN ON ORLEANS ST.

REVISIONS	DESCRIPTION	DATE	BY

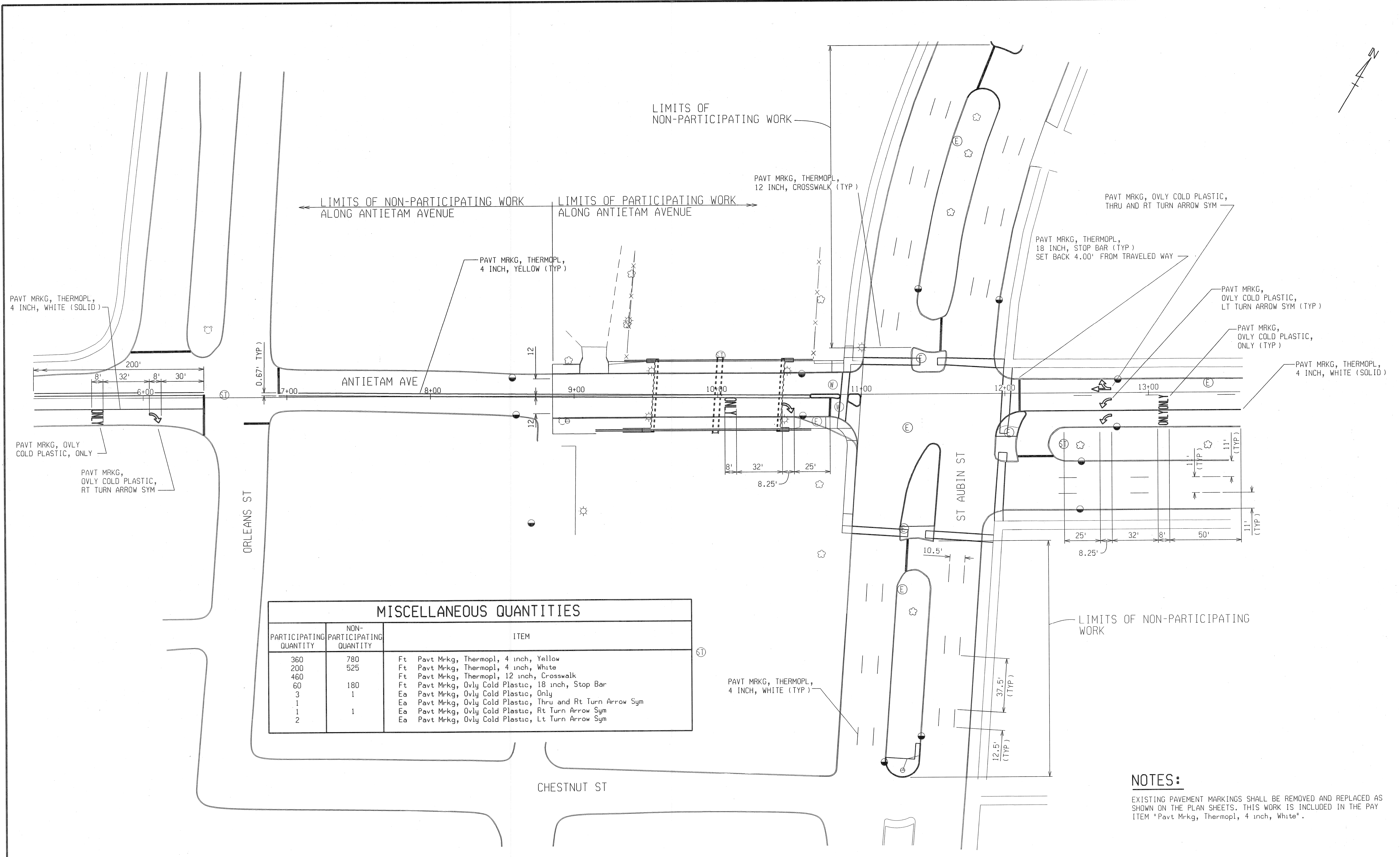


ANTIETAM AVENUE OVER DEQUINDRE CUT GREENWAY  
MDOT JOB NO. 83945A STRUCTURE NO. S02 of 82-22-97

SIGNING DETAILS

DATE: 4/13/07  
DLZ JOB NO. 0641-6053-00  
SHEET NO. 24 OF 48

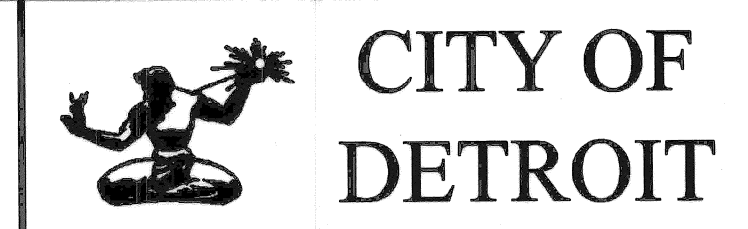
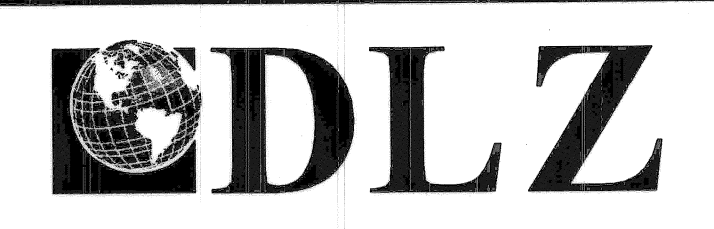
DATE: 2/1/07  
CORRECTED BY: TNB  
DATE: 1/31/07  
CHECKED BY: AJH  
DATE: 1/29/07  
DRAWN BY: JAP  
FILE NAME: anti-etam-sign2.dgn



MISCELLANEOUS QUANTITIES		
PARTICIPATING QUANTITY	NON-PARTICIPATING QUANTITY	ITEM
360	780	Ft Pavt Mrkg, Thermopl, 4 inch, Yellow
200	525	Ft Pavt Mrkg, Thermopl, 4 inch, White
460		Ft Pavt Mrkg, Thermopl, 12 inch, Crosswalk
60	180	Ft Pavt Mrkg, Ovly Cold Plastic, 18 inch, Stop Bar
3	1	Ea Pavt Mrkg, Ovly Cold Plastic, Only
1		Ea Pavt Mrkg, Ovly Cold Plastic, Thru and Rt Turn Arrow Sym
1	1	Ea Pavt Mrkg, Ovly Cold Plastic, Rt Turn Arrow Sym
2		Ea Pavt Mrkg, Ovly Cold Plastic, Lt Turn Arrow Sym

**NOTES:**  
 EXISTING PAVEMENT MARKINGS SHALL BE REMOVED AND REPLACED AS SHOWN ON THE PLAN SHEETS. THIS WORK IS INCLUDED IN THE PAY ITEM "Pavt Mrkg, Thermopl, 4 inch, White".

REVISIONS	DESCRIPTION	DATE	BY



ANTIETAM AVENUE OVER  
 DEQUINDRE CUT GREENWAY  
 MDOT JOB NO. 83945A    STRUCTURE NO. S02 of 82-22-97

PAVEMENT MARKING DETAILS

DATE: 4/13/07  
 DLZ JOB NO. 0641-6053-00  
 SHEET NO. 25 OF 48