CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS

IN CO-OPERATION WITH

MICHIGAN DEPARTMENT OF TRANSPORTATION

AND

FEDERAL HIGHWAY ADMINISTRATION

CONTROL SECTION NO. STU 82457
JOB NO. 120449A
FEDERAL PROJECT NO. STP 1482 (090)
FEDERAL ITEM NO. HH 9524

PLANS FOR PROPOSED

JEFFERSON AVE OVER ABANDONED CONRAIL RAILROAD
BRIDGE REPLACEMENT STRUCT NO. 12344

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MDOT STANDARD PLANS (NOT TO BE PRINTED)

WHERE THE FOLLOWING ITEMS ARE CALLED FOR IN THE PLANS, THEY ARE TO BE CONSTRUCTED ACCORDING TO THE STANDARD PLANS GIVEN BELOW.

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LOCATION OF TRANSVERSE JOINTS IN PLAIN CONCRETE PAVEMENT	R-43-I
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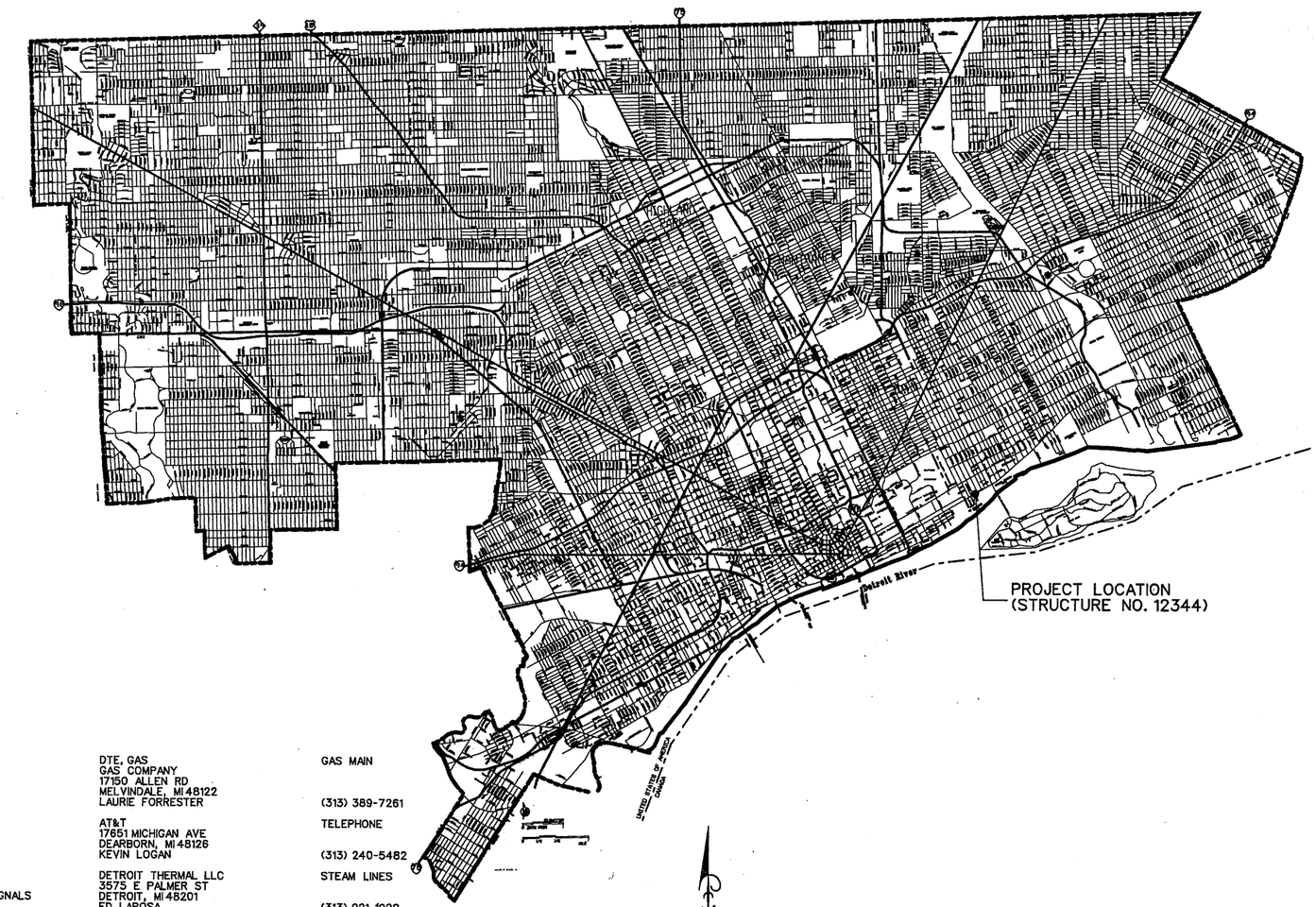
UTILITY TRENCHES	R-83-B
SOIL EROSION & SEDIMENTATION CONTROLS	R-96-E
PLACEMENT OF TEMPORARY CONCRETE BARRIER	R-126-I *
BRIDGE RAILING, AESTHETIC PARAPET TUBE	B-25-H *
FENCING FOR BRIDGE RAILING, AESTHETIC PARAPET TUBE	B-41-C
MOLDING, BEVEL, LIGHT STANDARD ANCHOR BOLT ASSEMBLY & NAMEPLATE DETAILS	B-103-E

TRAFFIC AND SAFETY STANDARD PLANS

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

GROUND DRIVEN SIGN SUPPORTS FOR TEMP SIGNS	WZD-100-A *
TEMPORARY TRAFFIC CONTROL DEVICES	WZD-125-D

* DESIGNATES SPECIAL DETAILS



AREA MAP

UTILITY CONTACT INFORMATION

CITY OF DETROIT PLD 9449 GRINNELL DETROIT, MI 48213 BEAU TAYLOR	STREET LIGHTING (313) 267-7202	DTE, GAS GAS COMPANY 17150 ALLEN RD MELVINDALE, MI 48122 LAURIE FORRESTER	GAS MAIN (313) 389-7261
CITY OF DETROIT DWSD WATER BOARD BLDG. 735 RANDOLPH DETROIT, MI 48226 MOHAMED BOUDALI	WATER MAINS & SEWERS (313) 964-9892	AT&T 17651 MICHIGAN AVE DEARBORN, MI 48126 KEVIN LOGAN	TELEPHONE (313) 240-5482
CITY OF DETROIT TRAFFIC ENGINEERING, D.P.W. 2633 MICHIGAN AVENUE DETROIT, MI 48207 ASHOK PATEL	PAVEMENT MARKINGS, SIGNS & TRAFFIC SIGNALS (313) 224-1610	DETROIT THERMAL LLC 3575 E PALMER ST DETROIT, MI 48201 ED LAROSA	STEAM LINES (313) 921-1922
DTE, DETROIT EDISON ONE ENERGY PLAZA DETROIT, MI 48226 ROBIN O'CONNELL	ELECTRIC POWER (313) 235-5632	COMCAST CABLEVISION 25626 TELEGRAPH RD SOUTHFIELD, MI 48034 GLEN YOUNGLOVE	TV CABLE (248) 809-2712

GENERAL NOTES

THE RECONSTRUCTION DESIGN IS BASED ON 1.2 TIMES THE CURRENT AASHTO LRFD BRIDGE DESIGN SPECIFICATION HL-93 LOADING WITH THE EXCEPTION THAT THE DESIGN TANDEM PORTION OF THE HL-93 LOAD DEFINITION SHALL BE REPLACED BY THE SINGLE 60 KIP AXLE LOAD BEFORE APPLICATION OF THIS 1.2 FACTOR. THE RESULTING LOAD IS DESIGNATED HL-93 MOD.

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 2012 EDITION.

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

CONCRETE: GRADE S2	FC=3,000 PSI
CONCRETE: GRADE D	FC=4,000 PSI
STEEL REINFORCEMENT	FY=60,000 PSI
PRECAST CONCRETE:	F'C=5,000 PSI

ESTIMATED TRAFFIC DISTRIBUTION

AVERAGE DAILY TRAFFIC (2013)	24850
FUTURE ADT (2034)	44880
DESIGN HOURLY VOLUME	
COMMERCIAL	5%
POSTED SPEED	35 MPH
DESIGN SPEED	40 MPH

2013 AVERAGE DAILY TRAFFIC PROJECTED FROM 2003 ADT COUNTS.

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

BIDDERS WILL BE FURNISHED WITH SCANNED IMAGES OF PLAN SHEETS OF THE EXISTING STRUCTURE IF REQUESTED.

UNLESS OTHERWISE SHOWN ON THE PLANS PROVIDE MINIMUM CONCRETE CLEAR COVER FOR REINFORCEMENT ACCORDING TO THE FOLLOWING:

CONCRETE CAST AGAINST EARTH:	3 IN
PRECAST CONCRETE:	1 IN
ALL OTHER UNLESS SHOWN ON PLANS:	2 IN

THE BRIDGE DECK SURFACE HAS AN HMA OVERLAY, HMA CAP OR HMA PATCHES. REMOVAL OF HMA AS A RESULT OF REMOVAL OF OTHER SUPERSTRUCTURE ITEMS SHALL BE INCLUDED IN THE REMOVAL OF THOSE ITEMS.

THE BRIDGE DECK AND ADJACENT ROADWAY MAY HAVE BURIED STREET CAR RAILS WITHIN THE ROADWAY AND DECK. THE CONTRACTOR SHALL REMOVE THE RAILS WITH CARE AND SHALL TURN THEM OVER TO THE CITY. THIS SHALL BE INCLUDED IN THE PAY ITEM "STRUCTURES, REM".

CONTRACT FOR BRIDGE REPLACEMENT

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

APPROVED BY _____ CITY ENGINEER 6-12-14 DATE

PREPARED UNDER THE SUPERVISION OF

STATE OF MICHIGAN
ROBERT BREEN ENGINEER No. 28033
LICENSED PROFESSIONAL ENGINEER

_____ ROBERT R. BREEN, PE 28033 LICENSE # 6/11/14 DATE

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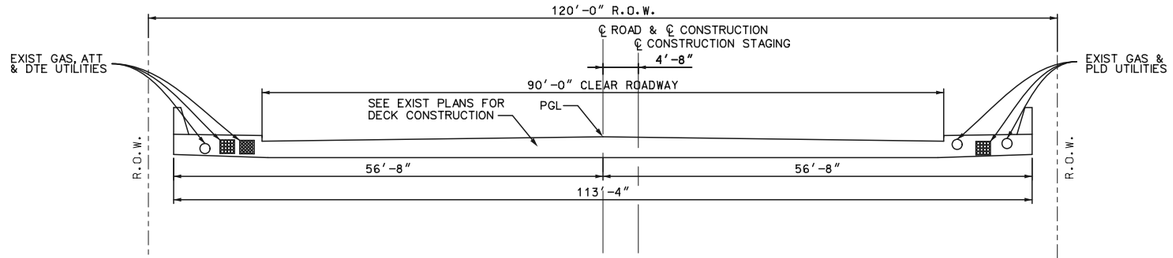
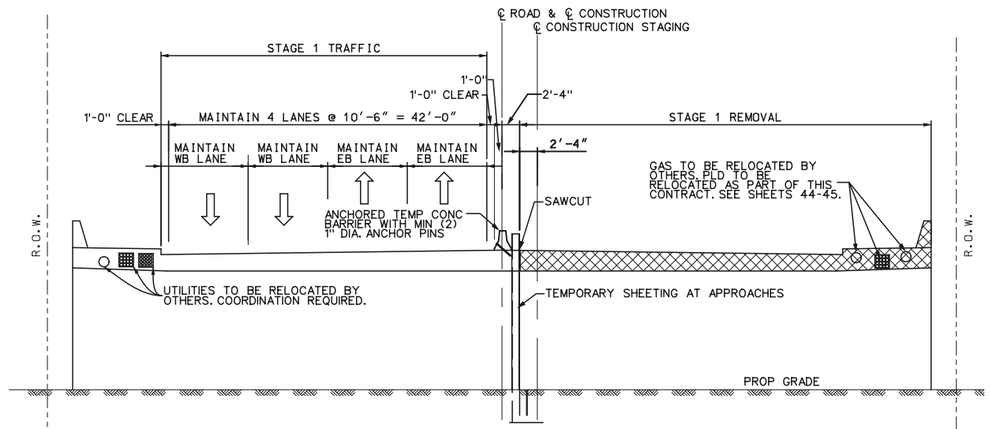


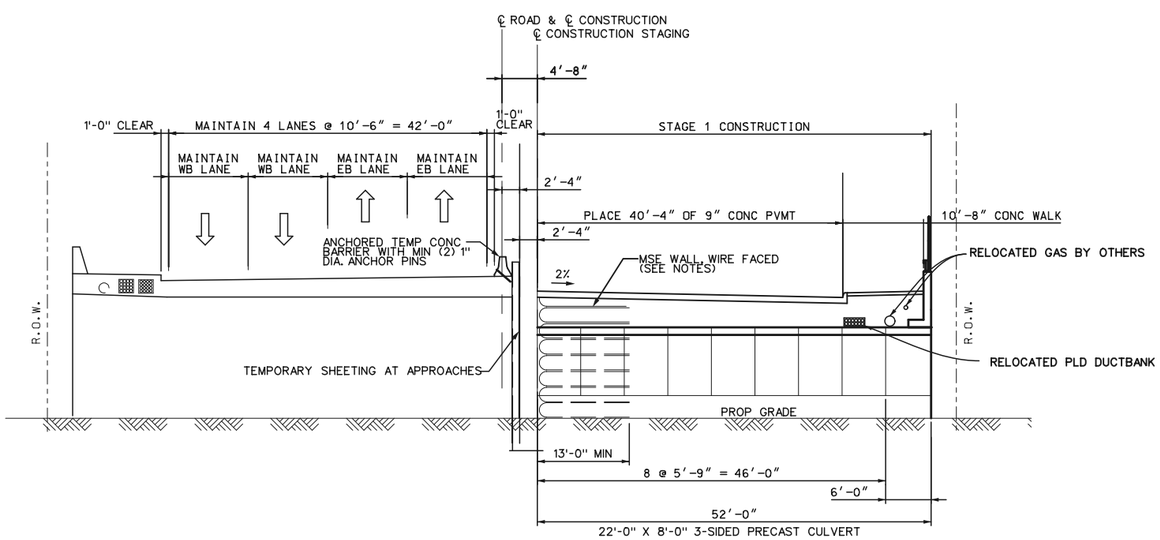
EXISTING STRUCTURE

(LOOKING EAST/UPSTATION)



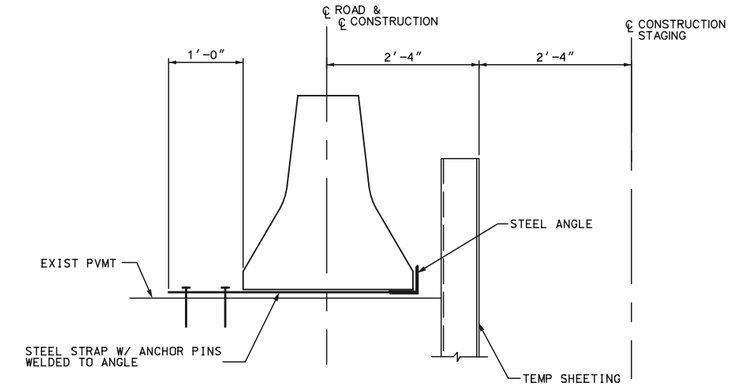
STAGE 1 REMOVAL

(LOOKING EAST/UPSTATION)



STAGE 1 CONSTRUCTION

(LOOKING EAST/UPSTATION)



ALTERNATE TEMP BARRIER CONNECTION

SIZING OF STEEL ANGLE, STRAPS, AND ANCHOR PINS BY CONTRACTOR BASED ON DESIGN IMPACT LOAD OF 10 KIPS.

STAGE 1:

1. SHIFT ALL TRAFFIC TO NORTH HALF OF EXISTING BRIDGE.
2. PLACE TEMP CONC BARRIER.
3. DRIVE TEMPORARY SHEETING AT APPROACHES.
4. REMOVE SOUTH PORTION OF EXISTING BRIDGE.
5. CONSTRUCT SOUTH PORTION OF PROPOSED BRIDGE.

STAGE 2:

1. RESET TEMP CONC BARRIER.
2. SHIFT TRAFFIC TO SOUTH HALF OF PROPOSED BRIDGE.
3. REMOVE TEMPORARY SHEETING.
4. REMOVE REMAINING EXISTING BRIDGE.
5. CONSTRUCT NORTH PORTION OF PROPOSED BRIDGE.

NOTES:

REFER TO SPECIAL PROVISIONS FOR MAINTAINING TRAFFIC.

JEFFERSON AVENUE IS TO BE MAINTAINED OVER THE BRIDGE BY PART-WIDTH CONSTRUCTION.

PLACEMENT OF TEMPORARY CONC BARRIER SHALL BE IN ACCORDANCE WITH STANDARD PLAN R-126 SERIES.

THE CONTRACTOR SHALL COORDINATE HIS ACTIVITIES WITH THE UTILITY RELOCATIONS.
REFER TO UTILITY COORDINATION CLAUSE IN PROPOSAL.

ANCHOR STRAPS AND ANGLE CONNECTIONS FOR THE TEMPORARY BARRIER IS AN ALTERNATE METHOD OF RESTRICTING MOVEMENT OF THE TEMPORARY BARRIER. IT SHALL ONLY BE USED IF THE EXISTING CONCRETE DECK IS UNABLE TO PROVIDE ADEQUATE CONNECTION OF THE ANCHOR PINS AS SHOWN. THEY SHALL BE INCLUDED IN THE PAY ITEM "CONC BARRIER, TEMP, OPER".

EXISTING DUCTS WITHIN THE SIDEWALK AREA MAY BE ASBESTOS. CONTRACTOR SHALL COMPLY WITH ALL MDOT, MDNRE, MIOSHA, EPA, CITY OF DETROIT BS & EE AND OTHER APPLICABLE REQUIREMENTS FOR NOTIFICATION, DEMOLITION, REMOVAL AND DISPOSAL. THE MDOT SUPPLEMENTAL SPECIFICATIONS, 0355204(1a) "ASBESTOS NOTIFICATION" AND 0355204(2a) "ASBESTOS REMOVAL AND DISPOSAL" SHALL BE COMPLIED WITH.

℄ CONSTRUCTION DENOTES CENTERLINE OF ENTIRE BRIDGE CONSTRUCTION.
℄ STAGED CONSTRUCTION DENOTES LIMITS OF PROPOSED CONSTRUCTION FOR STAGE 1 AND STAGE 2.

BACKFILL, SELECT SHALL BE USED AT MSEEE WALL, WIRE FACED.

MISCELLANEOUS QUANTITIES

80	FT	CONC BARRIER, TEMP, FURN
80	FT	CONC BARRIER, TEMP, OPER
160	FT	CONC BARRIER, TEMP, RELOCATED
1500	SFT	STEEL SHEET PILING, TEMP
544	SFT	MSE WALL, WIRE FACED, PERM, FURN
544	SFT	MSE WALL, WIRE FACED, PERM, INSTALL
210	CYD	BACKFILL, SELECT

REV#	DATE	DESCRIPTION	BY

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CITY ENGINEERING DIVISION
JEFFERSON AVE. OVER CONRAIL
STRUCTURE STAGING PLAN

ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-12T

SHEET 2

JEFFERSON AVE. BRIDGE

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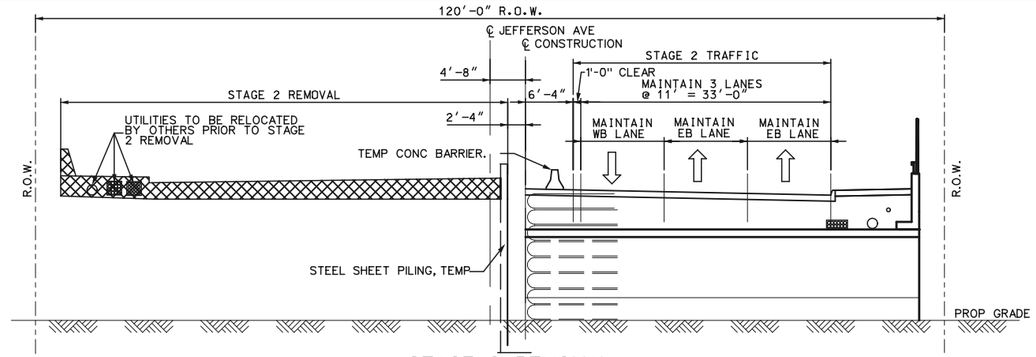

STAGE 2 REMOVAL

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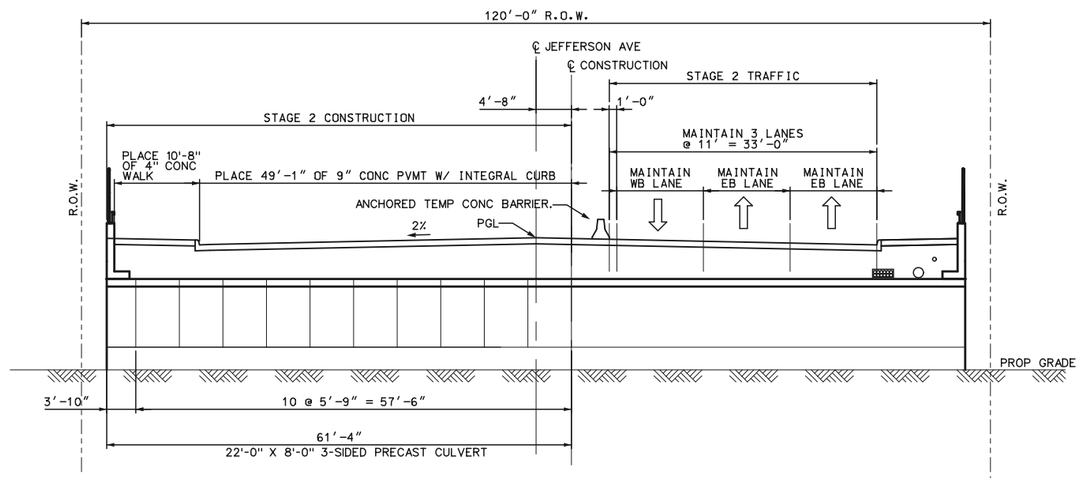
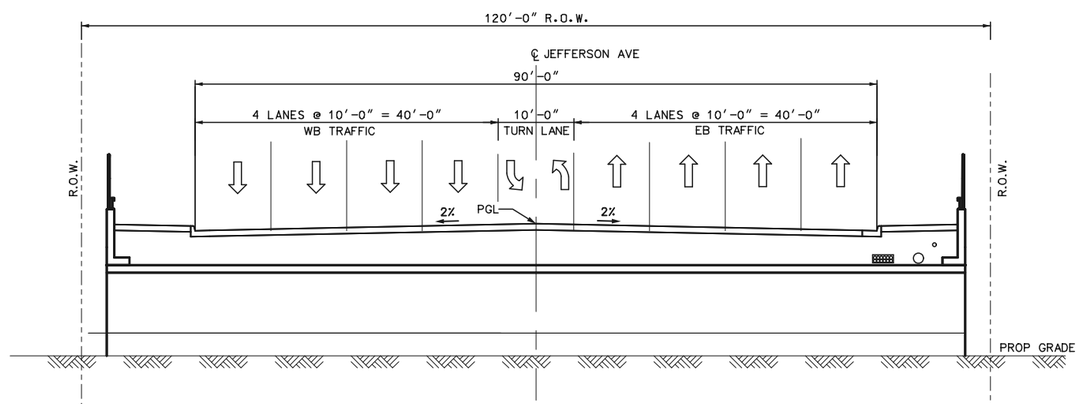


STAGE 2 CONSTRUCTION

(LOOKING EAST/UPSTATION)



FINAL CONSTRUCTION

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SHEET 3

JEFFERSON AVE. BRIDGE

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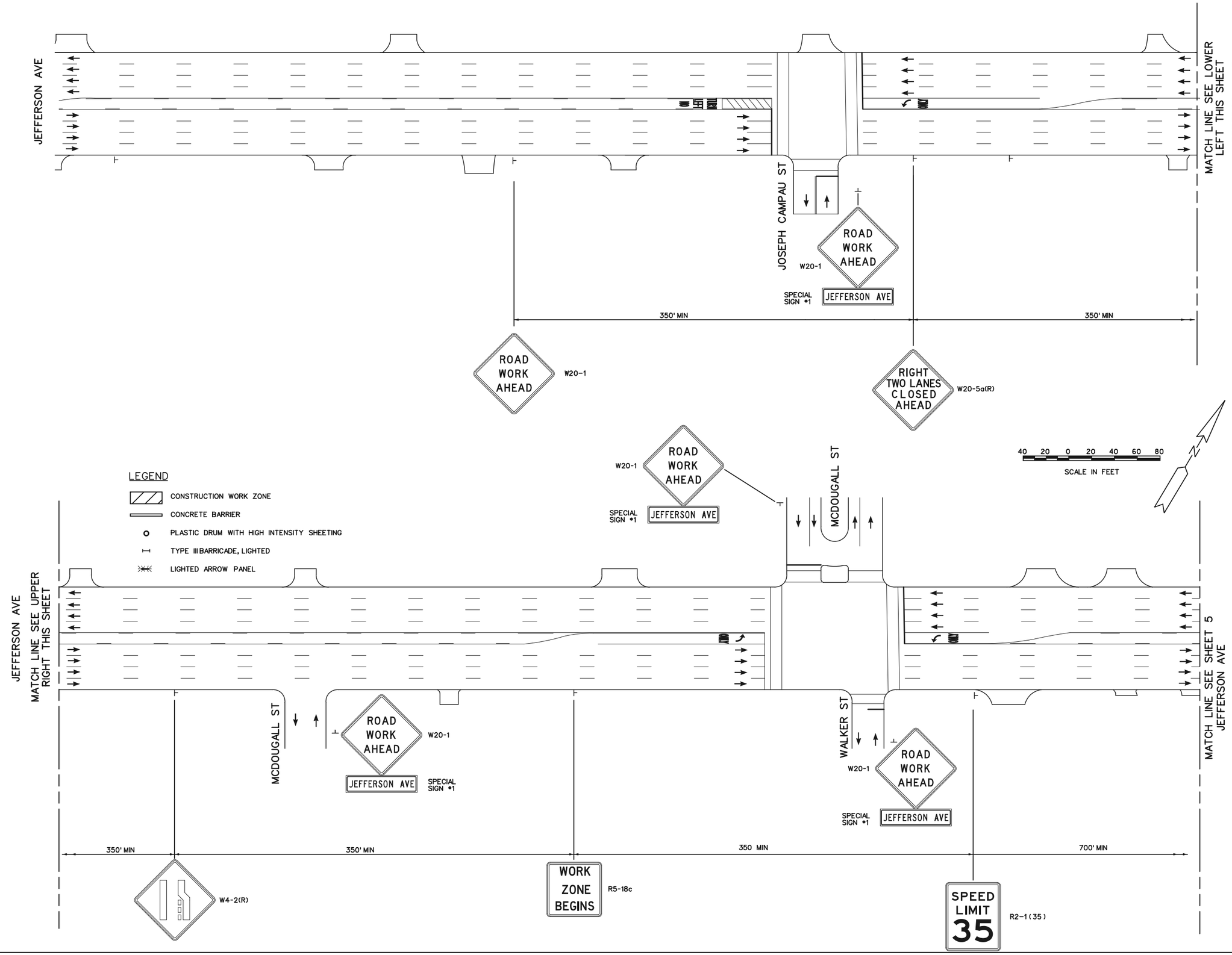

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JEFFERSON AVE. OVER CONRAIL
MAINTAINING TRAFFIC
STAGE 1

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SHEET 4

JEFFERSON AVE. BRIDGE

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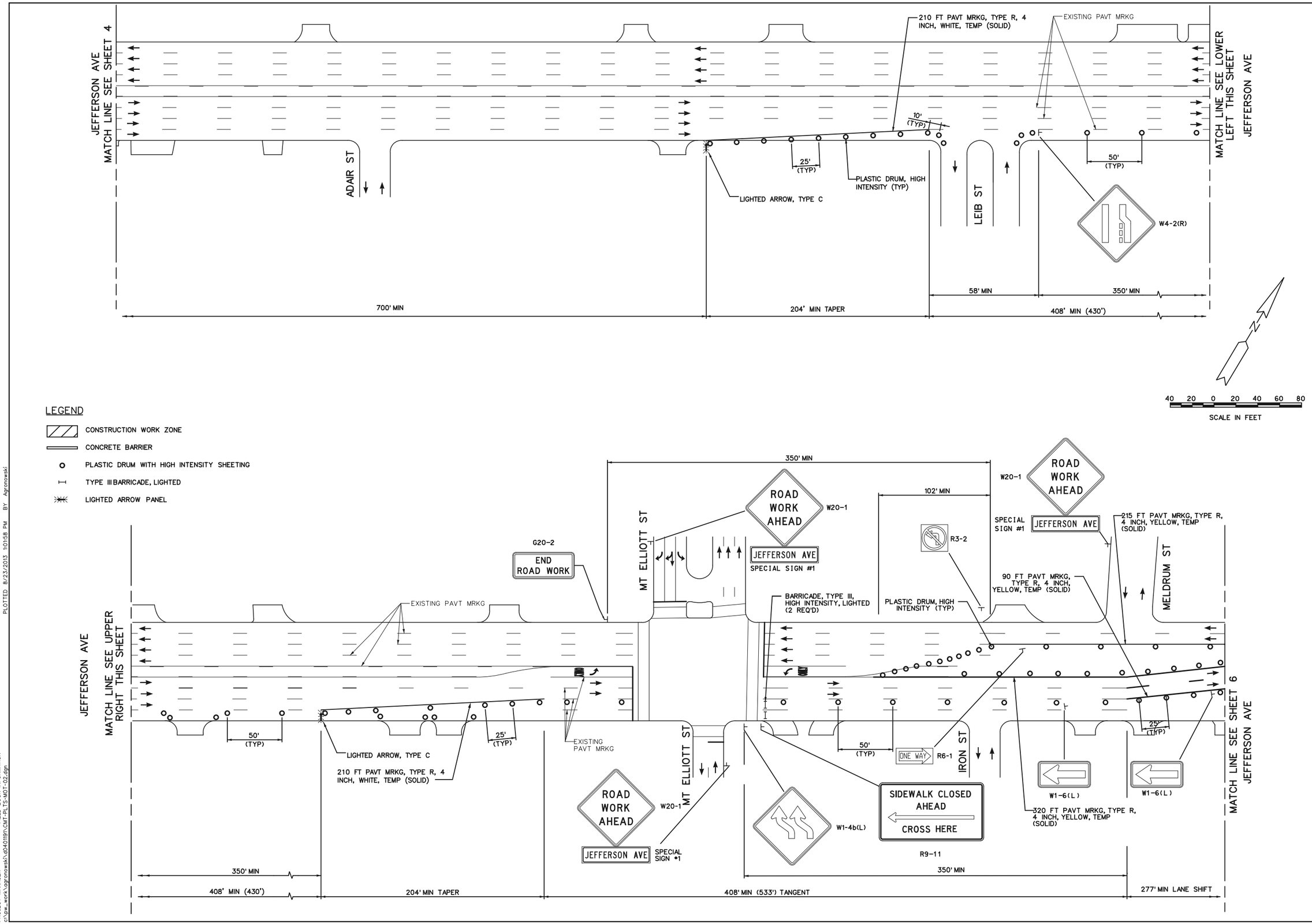

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SHEET 5

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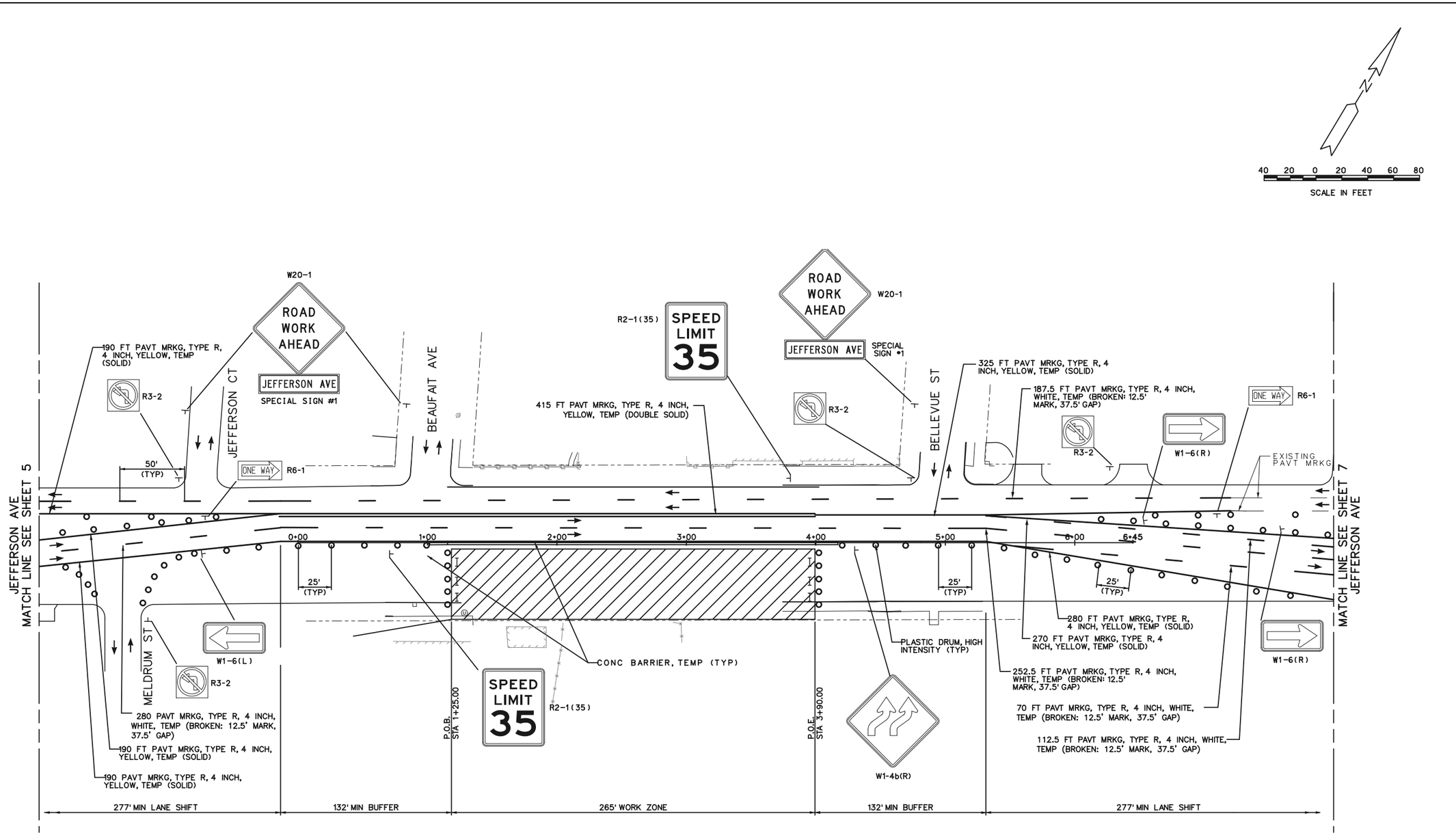

LEGEND

- CONSTRUCTION WORK ZONE
- CONCRETE BARRIER
- PLASTIC DRUM WITH HIGH INTENSITY SHEETING
- TYPE III BARRICADE, LIGHTED
- LIGHTED ARROW PANEL

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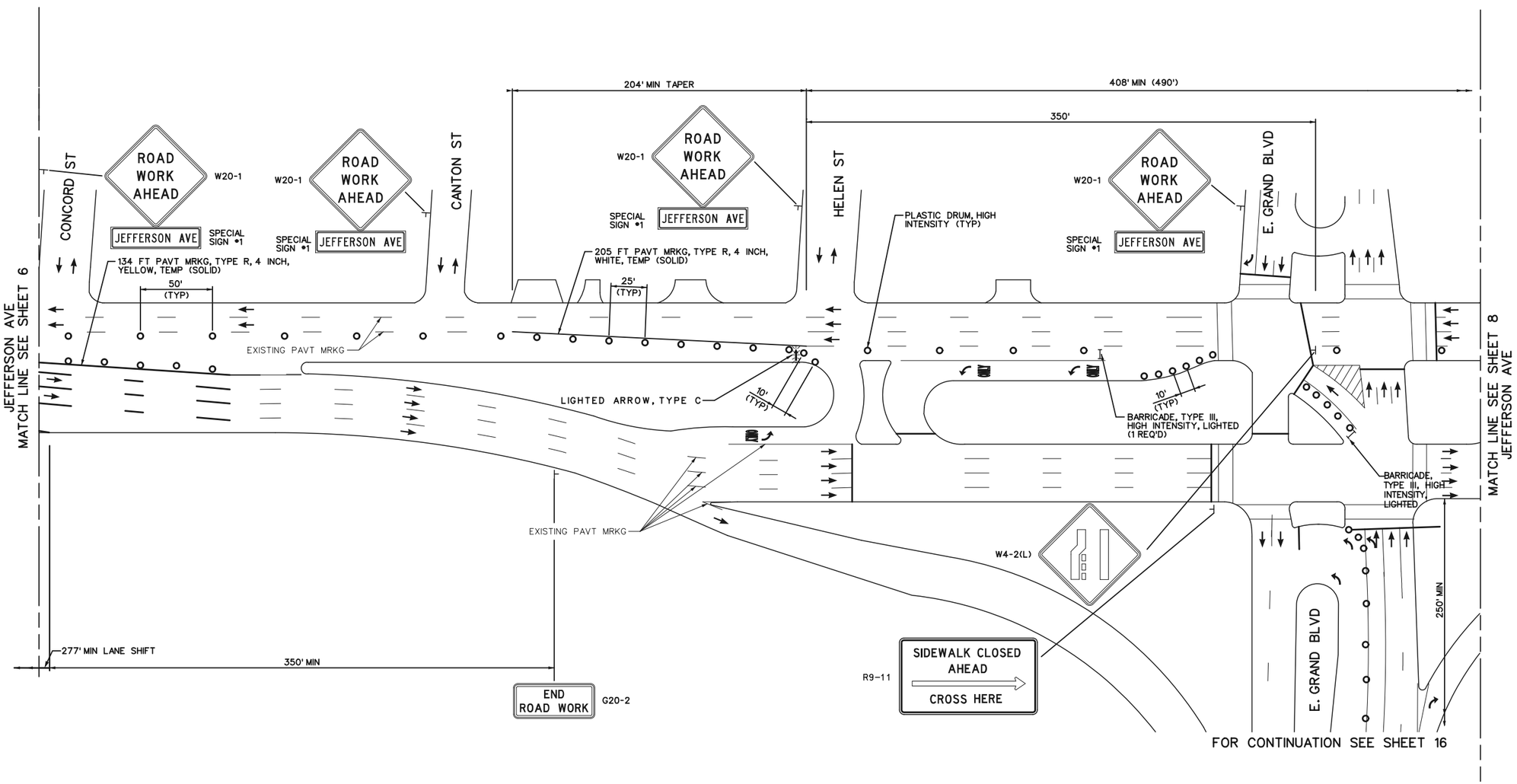

LEGEND

- CONSTRUCTION WORK ZONE
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- TYPE III BARRICADE, LIGHTED
- LIGHTED ARROW PANEL

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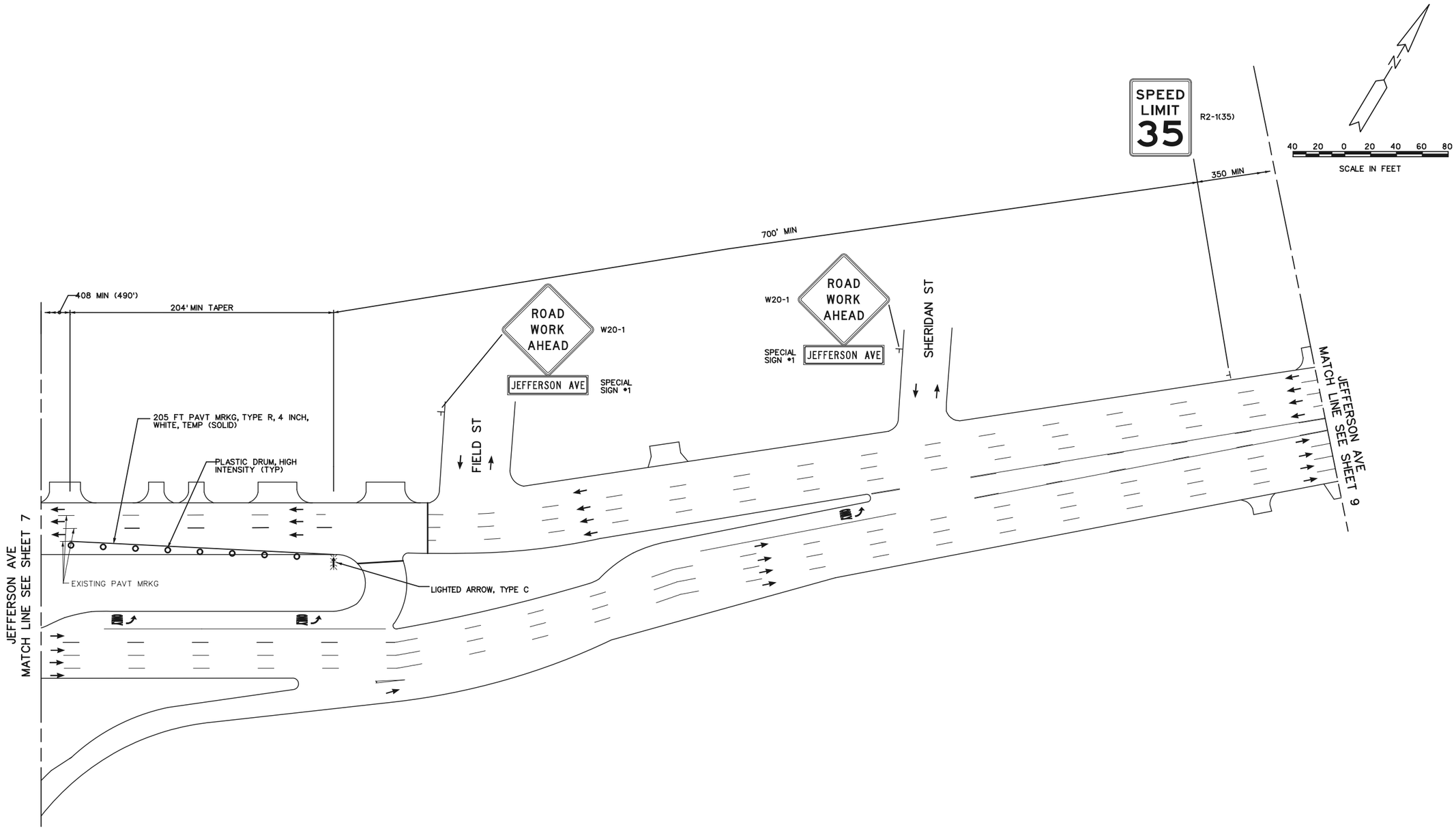

LEGEND

- CONSTRUCTION WORK ZONE
- CONCRETE BARRIER
- PLASTIC DRUM WITH HIGH INTENSITY SHEETING
- TYPE III BARRICADE, LIGHTED
- LIGHTED ARROW PANEL

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SHEET 8

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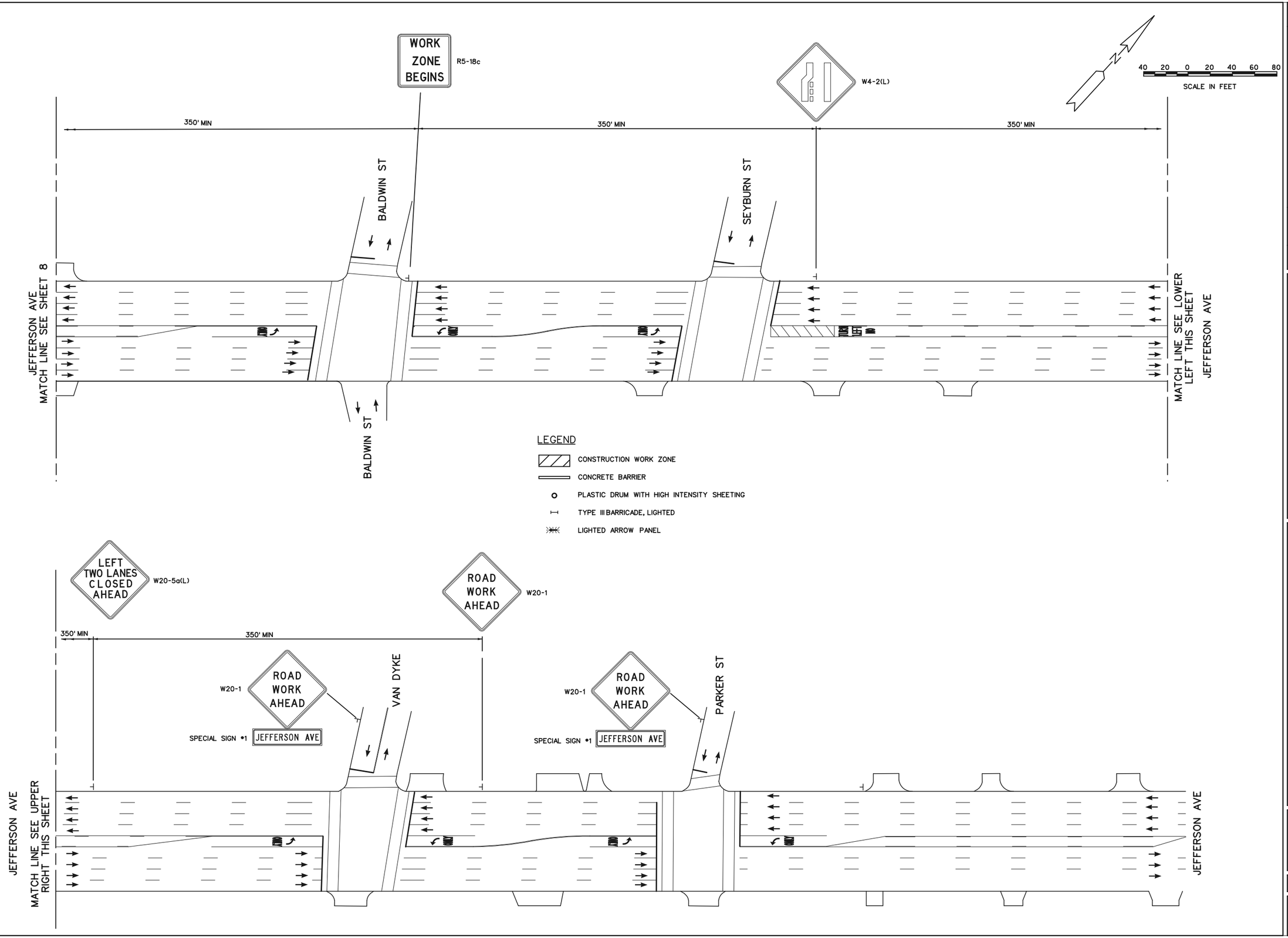

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SHEET 9

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LEGEND

- CONSTRUCTION WORK ZONE
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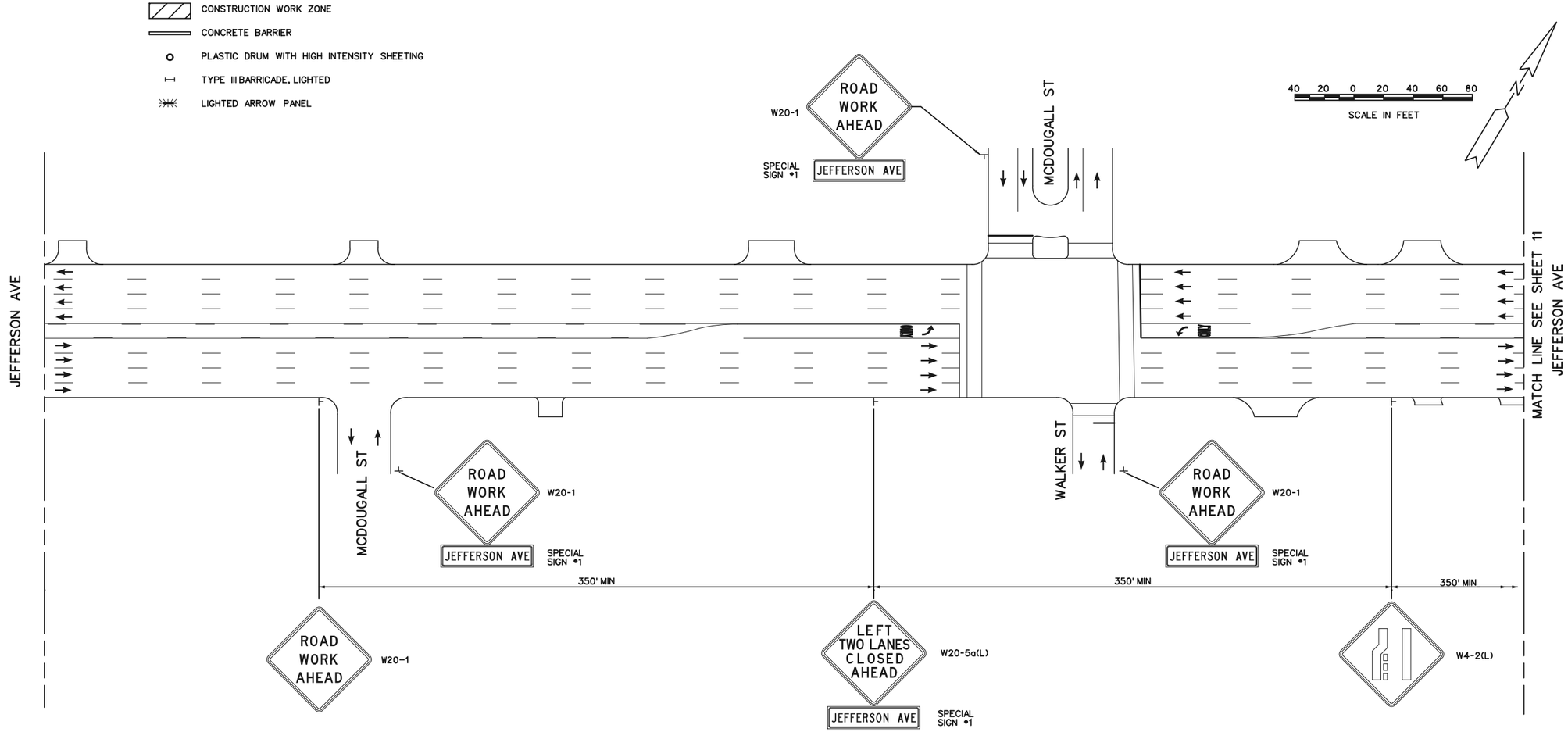
- PLASTIC DRUM WITH HIGH INTENSITY SHEETING
- TYPE III BARRICADE, LIGHTED
- LIGHTED ARROW PANEL



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STAGE 2

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SHEET 10

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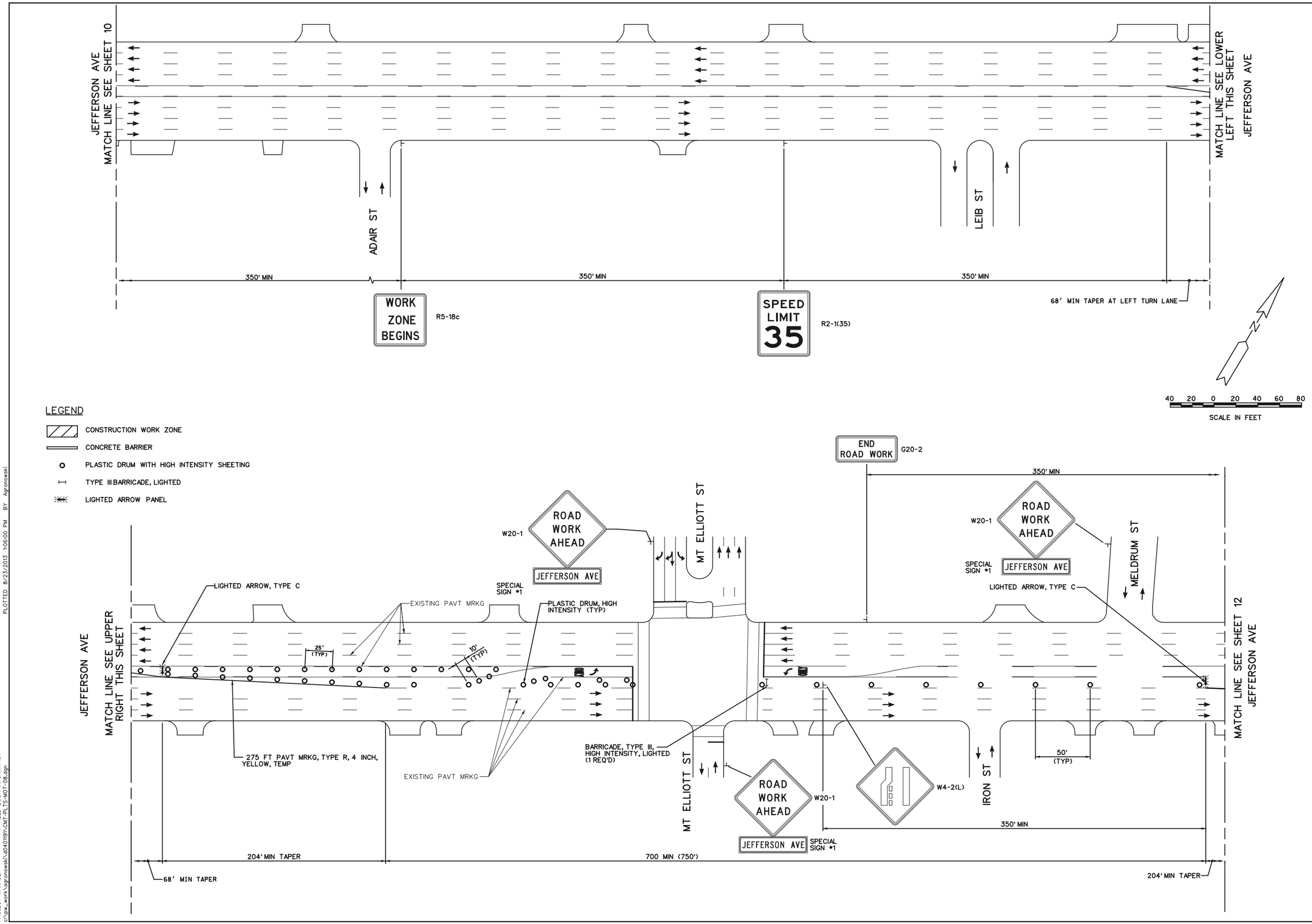

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CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION

JEFFERSON AVE. OVER CONRAIL
MAINTAINING TRAFFIC
STAGE 2

ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-12T

SHEET 11

JEFFERSON AVE. BRIDGE

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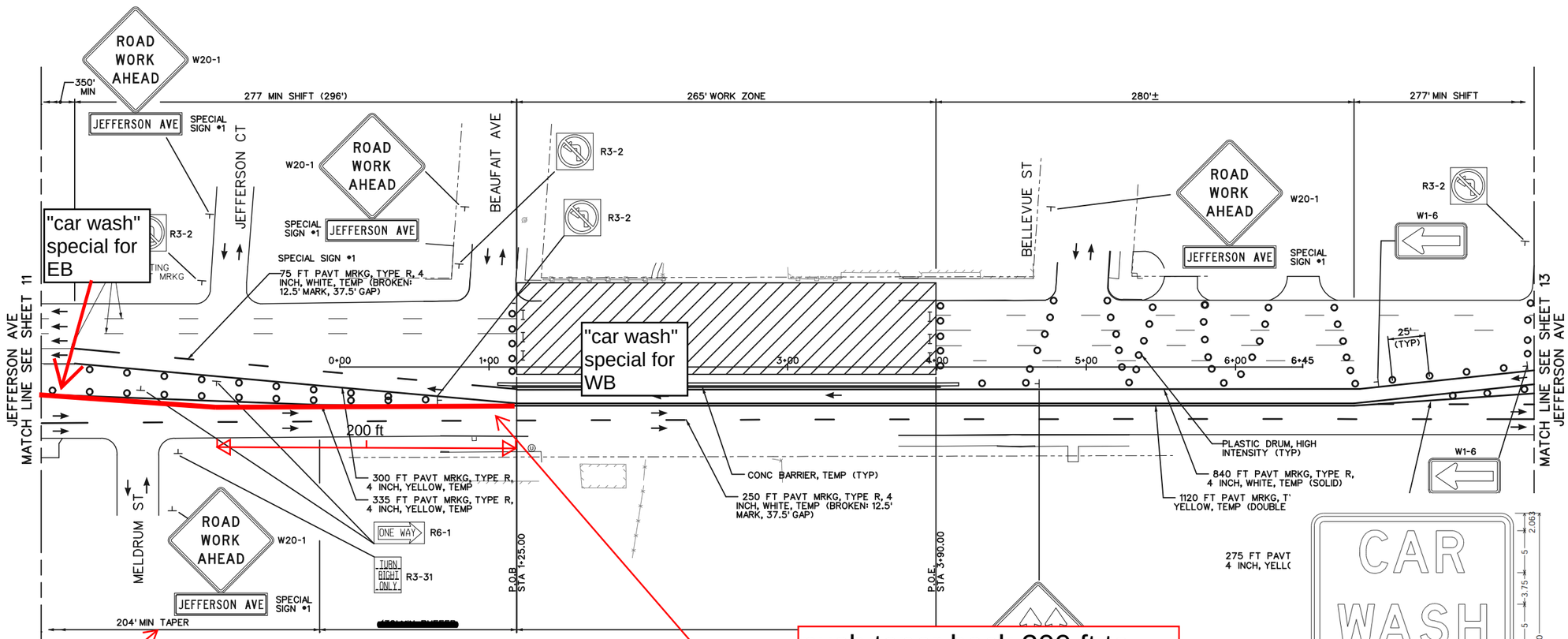
PROJECT MANAGER: -
FIELD BOOK INFORMATION: -
c:\pw_work\agronowski\d0401191\CMT-PLTS-MOT-08.dgn



40 20 0 20 40 60 80
SCALE IN FEET

push taper back 200 ft to the west.

rem and replace type, R markings and relocate arrowboard

taper actually ends at the end of the buffer zone

Special Car Was

LEGEND

- CONSTRUCTION WORK ZONE
- CONCRETE BARRIER
- PLASTIC DRUM WITH HIGH INTENSITY SHEETING
- TYPE III BARRICADE, LIGHTED
- LIGHTED ARROW PANEL

REV#	DATE	DESCRIPTION	BY

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JEFFERSON AVE. OVER CONRAIL
MAINTAINING TRAFFIC
STAGE 2

ISSUED FOR: DATE: BY:

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SHEET 12

JEFFERSON AVE. BRIDGE

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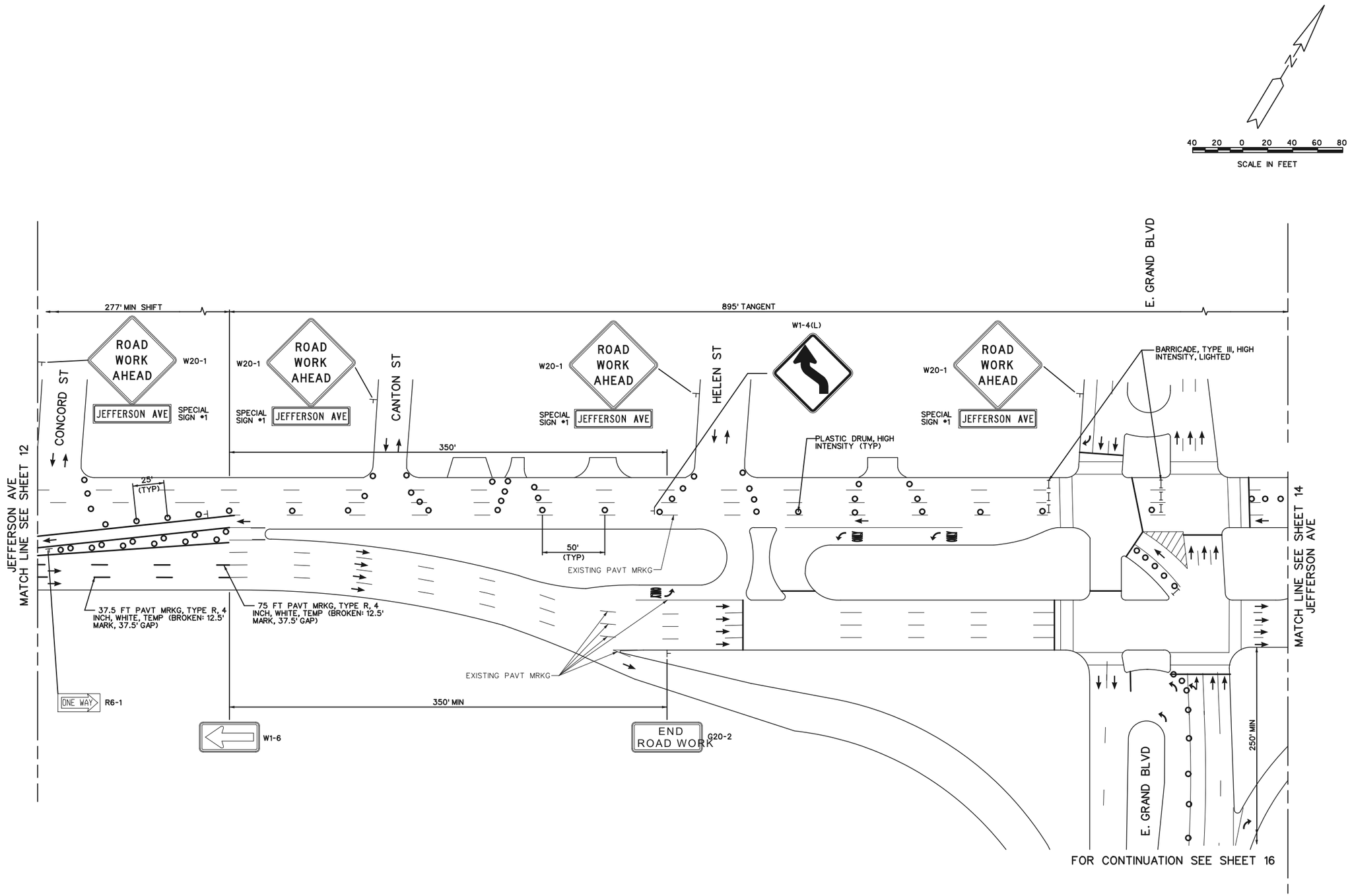

LEGEND

- CONSTRUCTION WORK ZONE
- CONCRETE BARRIER
- PLASTIC DRUM WITH HIGH INTENSITY SHEETING
- TYPE III BARRICADE, LIGHTED
- LIGHTED ARROW PANEL

REV#	DATE	DESCRIPTION	BY

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JEFFERSON AVE. OVER CONRAIL
MAINTAINING TRAFFIC
STAGE 2

ISSUED FOR: DATE: BY:

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SHEET 13

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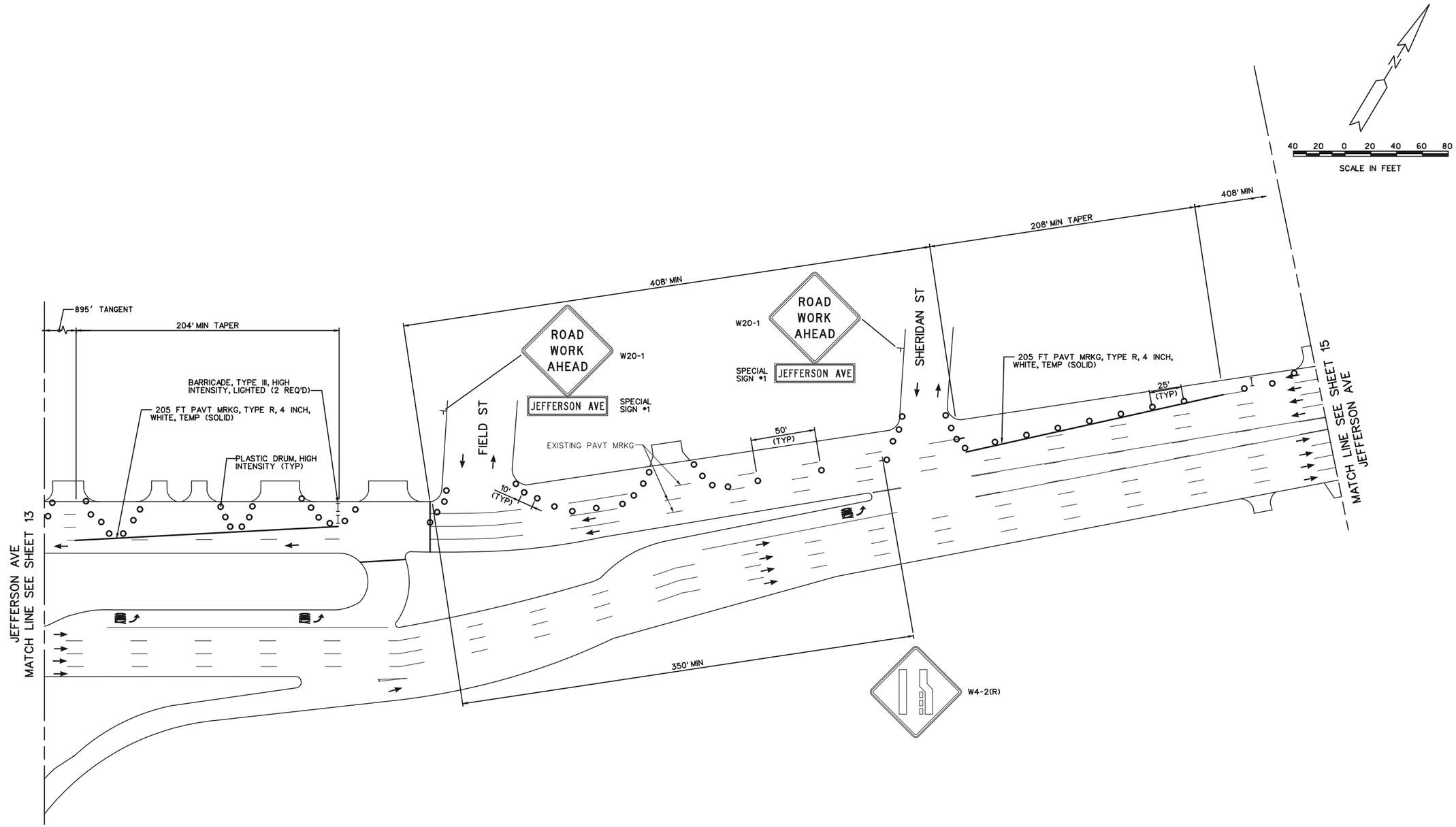

LEGEND

- CONSTRUCTION WORK ZONE
- CONCRETE BARRIER
- PLASTIC DRUM WITH HIGH INTENSITY SHEETING
- TYPE III BARRICADE, LIGHTED
- LIGHTED ARROW PANEL

REV#	DATE	DESCRIPTION	BY

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JEFFERSON AVE. OVER CONRAIL
MAINTAINING TRAFFIC
STAGE 2

ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-12T

SHEET 14

JEFFERSON AVE. BRIDGE

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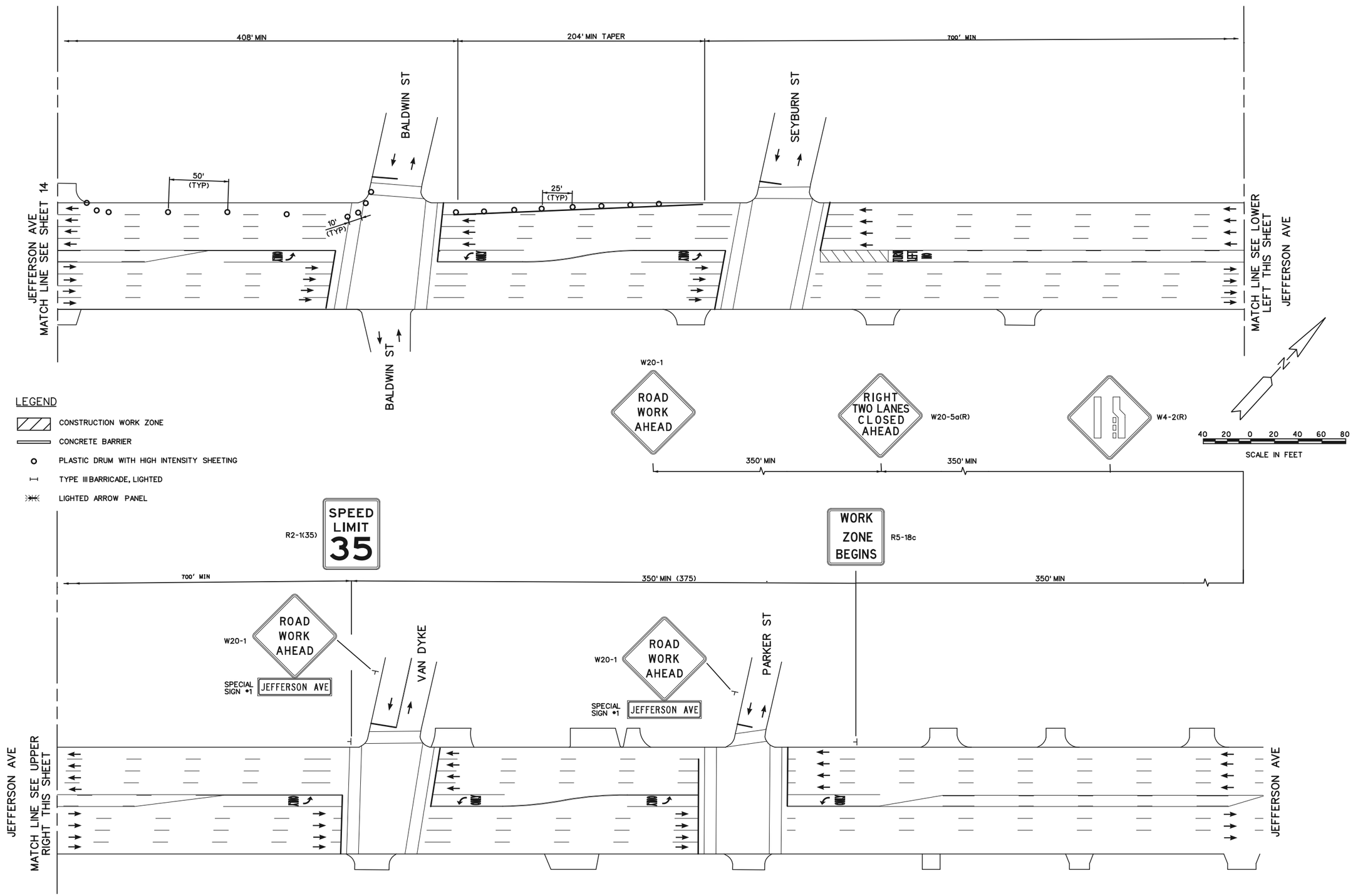

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JEFFERSON AVE. OVER CONRAIL
MAINTAINING TRAFFIC
STAGE 2

ISSUED FOR: DATE: BY:

JEFFERSON AVE. BRIDGE

JOB NO. DTE 2025-12T

SHEET 15

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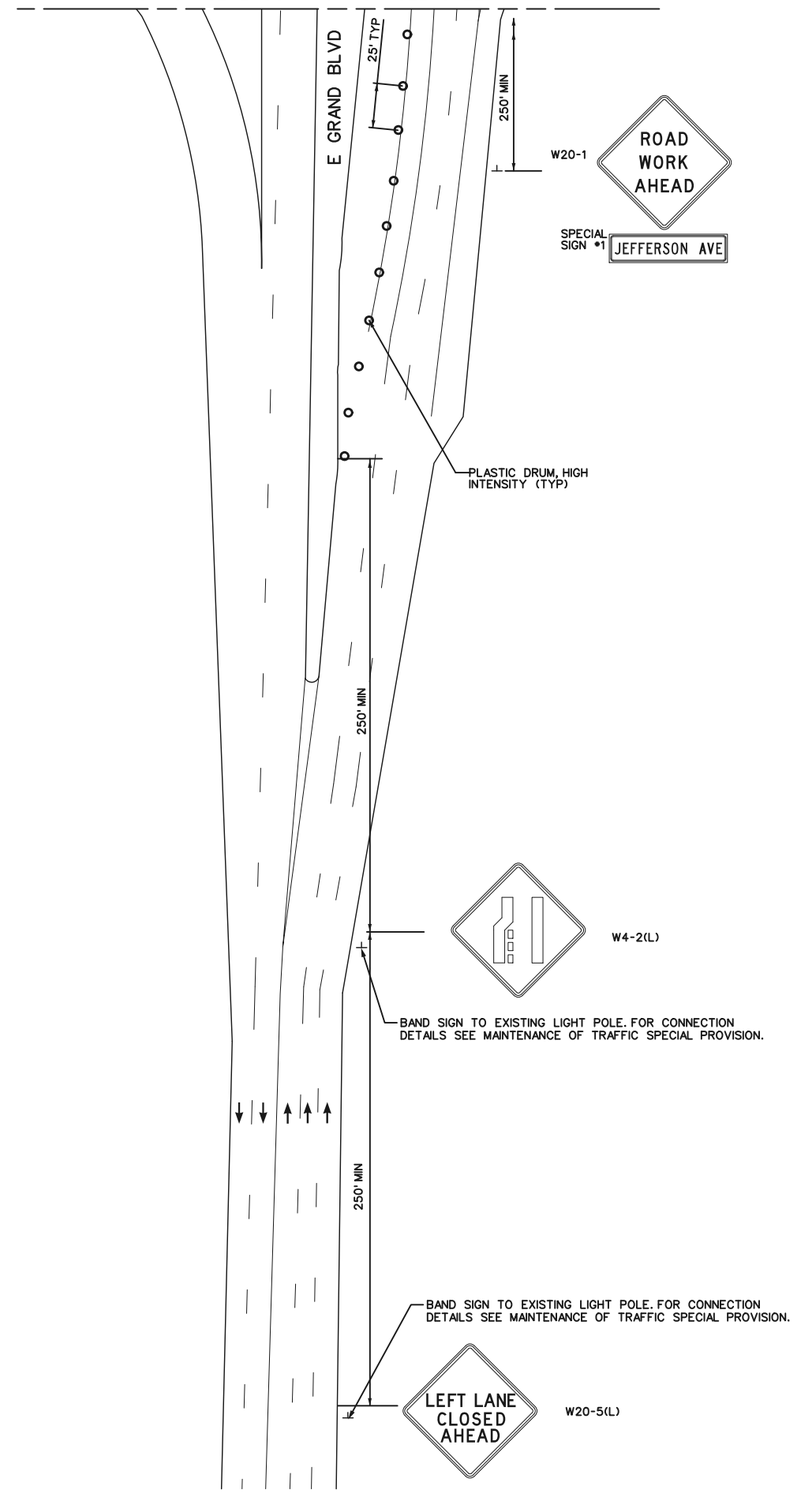

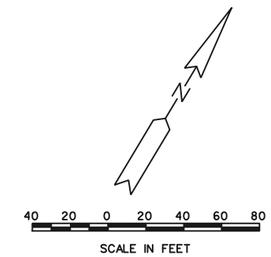

LEGEND

- CONSTRUCTION WORK ZONE
- CONCRETE BARRICADE
- PLASTIC DRUM WITH HIGH INTENSITY SHEETING
- TYPE III BARRICADE, LIGHTED
- LIGHTED ARROW PANEL

CONTRACTOR NOTE:

AN MDOT PERMIT (*24539) HAS BEEN APPLIED FOR. THIS WILL BE FOR WORK ON E. GRAND BLVD., SOUTH OF JEFFERSON (MDOT JURISDICTION). CONTRACTOR SHALL CONTACT LAURI OLSEN (517)-241-3028 FOR DIRECTIONS ON ISSUANCE OF PERMIT.

REV#	DATE	DESCRIPTION	BY

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JEFFERSON AVE OVER CONRAIL
MAINTAINING TRAFFIC
STAGES 1 AND 2

ISSUED FOR: DATE: BY:

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SHEET 16

JEFFERSON AVE. BRIDGE

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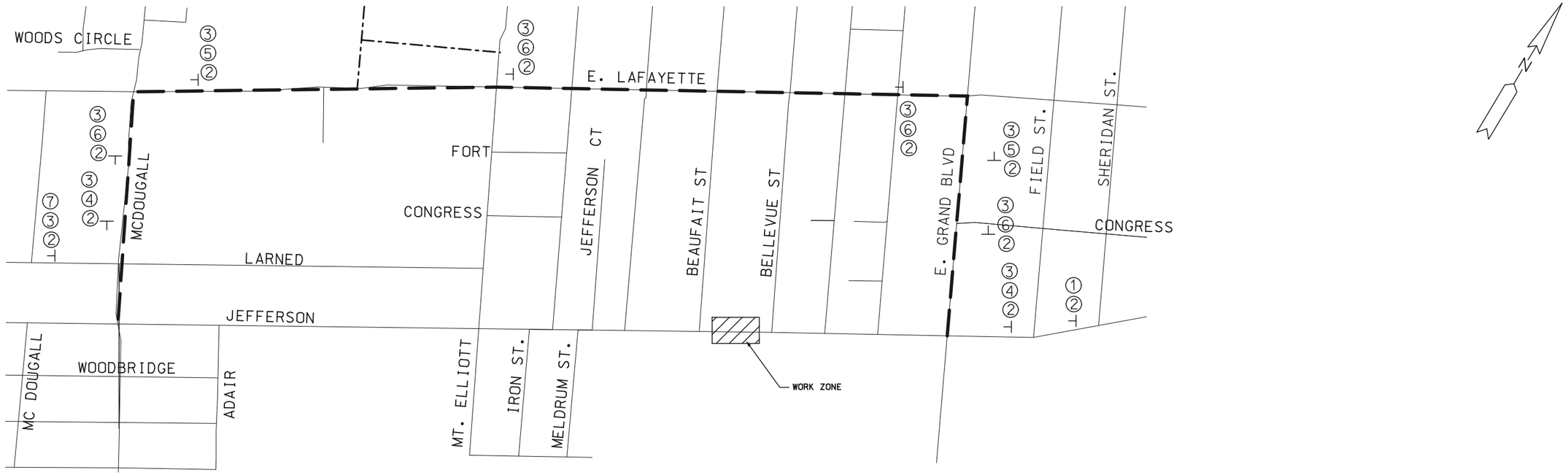
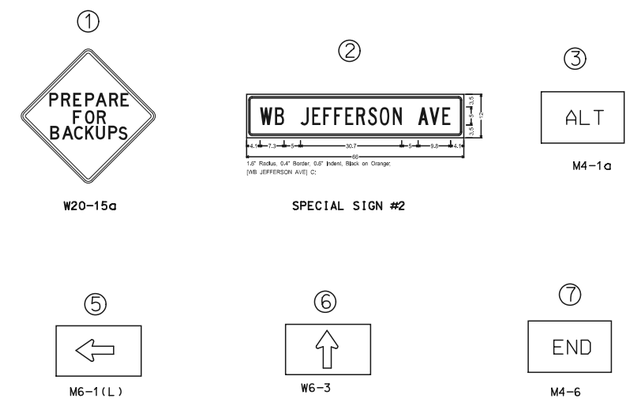
PLOTTED 5/22/2014 7:10:45 AM BY rbreen



PLAN



ALTERNATE ROUTE SIGNING (STAGE 2 ONLY)

SIGN			SIZE (in x in)		AREA	TOTAL	TOTAL
DESCRIPTION	CODE	TYPE	IN	IN	SFT	QTY	AREA
PREPARE FOR BACKUPS	W20-15a	B	36	36	9.0	1	9
WB JEFFERSON AVE	SPECIAL SIGN #2	B	66	12	5.5	10	55
ALT	M4-1a	B	24	12	2.0	7	14
RIGHT ARROW	M6-1(R)	B	21	15	2.2	2	18
LEFT ARROW	M6-1(L)	B	21	15	2.2	2	18
STRAIGHT ARROW	W6-3	B	21	15	2.2	4	8.8
END	M4-6	B	24	12	2.0	1	2

NOTES:

- THE ALTERNATE ROUTE FOR WB JEFFERSON SHALL BE IN PLACE FOR STAGE II CONSTRUCTION.
- FOR MAINTAINING TRAFFIC ON JEFFERSON, SEE SHEETS 4-16.

LEGEND

- ALTERNATE ROUTE
- (1) SIGN CLUSTER NUMBER
- WORK ZONE

SIGNING QUANTITIES

DESCRIPTION	AREA (SFT)
SIGN, TYPE B, TEMP, PRISMATIC, FURN	77
SIGN, TYPE B, TEMP, PRISMATIC, OPER	70
SIGN, TYPE B, TEMP, PRISMATIC, SPECIAL, FURN	61
SIGN, TYPE B, TEMP, PRISMATIC, SPECIAL, OPER	55

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JEFFERSON AVE. OVER CONRAIL
ALTERNATE ROUTE

ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-12T

SHEET 17

JEFFERSON AVE. BRIDGE

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PROJECT MANAGER: -
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FIELD BOOK INFORMATION: -
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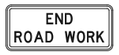


G20-2

R2-1(35)

R3-2

R3-31

R5-18c

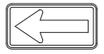
R6-1

R9-11(L) (AS SHOWN)
R9-11(R) ARROW OPPOSITE HAND

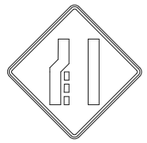
W1-4(L)

W1-4b(L)

W1-4b(R)



W1-6(L)



W4-2(L)

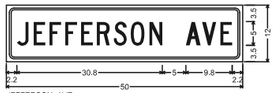
W4-2(R)

W20-1

W20-5(L)

W20-5a(L)

W20-5a(R)



JEFFERSON AVE;
1.6" Radius, 0.4" Border, 0.6" Indent, Black on Orange;
[JEFFERSON AVE] C;

SPECIAL SIGN #1

JEFFERSON AVE SIGNING QUANTITIES (STAGE 1 & STAGE 2)

SIGN			SIZE (in x in)		AREA	TOTAL	TOTAL
DESCRIPTION	CODE	TYPE	IN	IN	SFT	QTY	AREA
END ROAD WORK	G20-2	B	24	48	8.0	2	16
SPEED LIMIT (35)	R2-1(35)	B	24	30	5.0	4	20
NO LEFT TURN	R3-2	B	24	24	4.0	5	12
TURN RIGHT ONLY	R3-31	B	24	30	5.0	1	5
WORK ZONE BEGINS	R5-18c	B	48	48	16.0	2	32
ONE WAY (RIGHT)	R6-1	B	12	36	3.0	3	9
REVERSE CURVE (LEFT)	W1-4(L)	B	36	36	9.0	1	9
TWO LANE REVERSE CURVE (LEFT)	W1-4b(L)	B	36	36	9.0	1	9
TWO LANE REVERSE CURVE (RIGHT)	W1-4b(R)	B	36	36	9.0	1	9
DIRECTIONAL ARROW (LEFT)	W1-6(L)	B	24	48	8.0	2	16
DIRECTIONAL ARROW (RIGHT)	W1-6(R)	B	24	48	8.0	2	16
LEFT LANE CLOSED AHEAD	W4-2(L)	B	36	36	9.0	2	18
RIGHT LANE CLOSED AHEAD	W4-2(R)	B	36	36	9.0	2	18
ROAD WORK AHEAD	W20-1	B	36	36	9.0	22	198
JEFFERSON AVE	SPECIAL SIGN #1	B	12	50	4.2	18	75.6
LEFT TWO LANES CLOSED AHEAD	W20-5a(L)	B	36	36	9.0	1	9
RIGHT TWO LANES CLOSED AHEAD	W20-5a(R)	B	36	36	9.0	1	9
LEFT LANE CLOSED AHEAD	W20-5(L)	B	36	36	9.0	1	9
SIDEWALK CLOSED AHEAD. CROSS HERE	R9-11 (L OR R)	B	36	48	12.0	2	24

MISCELLANEOUS QUANTITIES (STAGE 1 & STAGE 2)

DESCRIPTION	UNIT	QTY
BARRICADE, TYPE III, HIGH INTENSITY, LIGHTED, FURN	EA	18
BARRICADE, TYPE III, HIGH INTENSITY, LIGHTED, OPER	EA	16
PLASTIC DRUM, HIGH INTENSTIY, LIGHTED, FURN	EA	294
PLASTIC DRUM, HIGH INTENSTIY, LIGHTED, OPER	EA	267
LIGHTED ARROW, TYPE, C, FURN	EA	5
LIGHTED ARROW, TYPE, C, OPER	EA	4
PAVT MRKG, TYPE R, 4 INCH, WHITE TEMP	FT	2575
PAVT MRKG, TYPE R, 4 INCH, YELLOW TEMP	FT	5764
MINOR TRAF DEVICES (SN 12344)	LS	1
SIGN, TYPE B, TEMP, PRISMATIC, FURN	SFT	516
SIGN, TYPE B, TEMP, PRISMATIC, OPER	SFT	426
SIGN, TYPE B, TEMP, PRISMATIC, SPECIAL, FURN	SFT	84
SIGN, TYPE B, TEMP, PRISMATIC, SPECIAL, OPER	SFT	76
SIGN COVER	EA	25

MAINTAINING TRAFFIC NOTES

1. ALL TEMPORARY CONSTRUCTION TRAFFIC APPURTENANCES, SUCH AS BARRICADES NECESSARY FOR CONSTRUCTION SHALL CONFORM TO THE 2011 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
2. ALL CONSTRUCTION APPURTENANCES SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. EXISTING SIGNS IN CONFLICT WITH THE TEMPORARY CONSTRUCTION TRAFFIC SIGNS SHALL BE COVERED OR TEMPORARILY RESET OR REMOVED AND STOCKPILED DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL NOTIFY THE CITY OF DETROIT POLICE AND FIRE DEPARTMENTS IN WRITING A MINIMUM OF TEN WORKING DAYS PRIOR TO THE START OF CONSTRUCTION ON ANY ROAD CLOSURES.
4. LOCAL STREETS ADJACENT TO THE CONSTRUCTION AREA SHALL NOT BE USED BY THE CONTRACTOR FOR EQUIPMENT AND MATERIAL STORAGE.
5. THE CONTRACTOR SHALL SUBMIT A PLAN TO THE ENGINEER FOR APPROVAL FOR TRUCK OR HAUL ROUTES TO BE USED DURING CONSTRUCTION.
6. THE CONTRACTOR SHALL NOTIFY ADJACENT BUSINESSES IN WRITING A MINIMUM OF TEN WORKING DAYS PRIOR TO PAVEMENT REMOVAL OR ANY PLANNED CONSTRUCTION THAT MAY LIMIT OR TEMPORARILY ELIMINATE ACCESS TO THEIR PROPERTY.
7. ALL CONSTRUCTION ACTIVITIES SHALL TAKE PLACE BETWEEN THE HOURS OF 7:00 A.M. AND 7:00 P.M. MONDAY THROUGH SATURDAY. NO CONSTRUCTION ACTIVITIES, INCLUDING PAVEMENT SAW CUTTING WILL BE ALLOWED ON SUNDAYS, AND MONDAY THROUGH SATURDAY BETWEEN THE HOURS OF 7:00 P.M. AND 7:00 A.M. THE CONTRACTOR MAY REQUEST AN EXTENSION OF WORK HOURS. ANY EXTENSION OF WORK HOURS IS AT THE DISCRETION OF THE CITY OF DETROIT, CITY ENGINEERS OFFICE.

REV#	DATE	DESCRIPTION	BY

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JEFFERSON AVE. OVER CONRAIL
MAINTENANCE OF TRAFFIC SCHEDULE

ISSUED FOR: DATE: BY:

JEFFERSON AVE. BRIDGE

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SHEET 18

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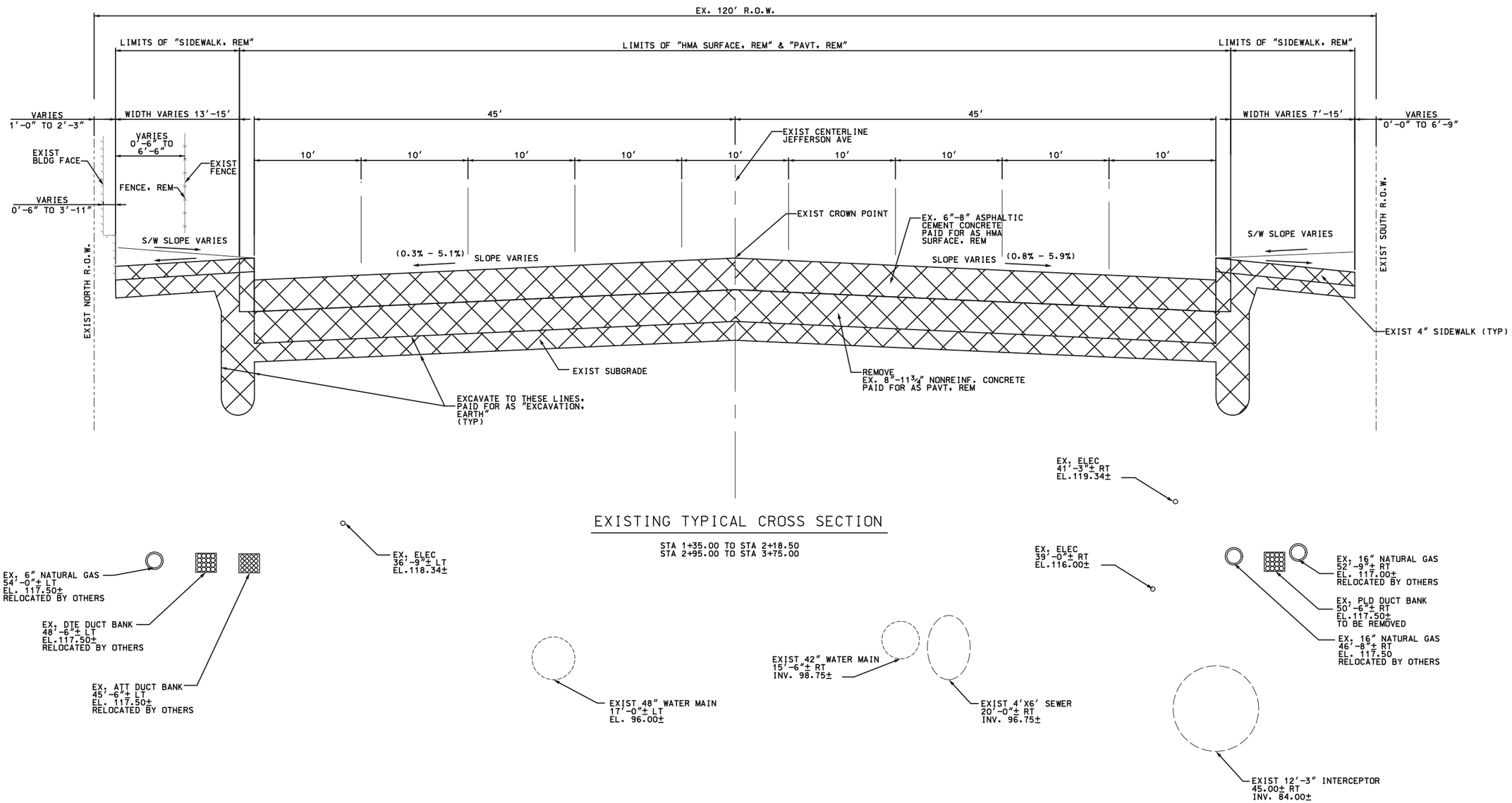

EXISTING TYPICAL CROSS SECTION

STA 1+35.00 TO STA 2+18.50
STA 2+95.00 TO STA 3+75.00

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EXISTING ROAD TYPICAL

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SHEET 19

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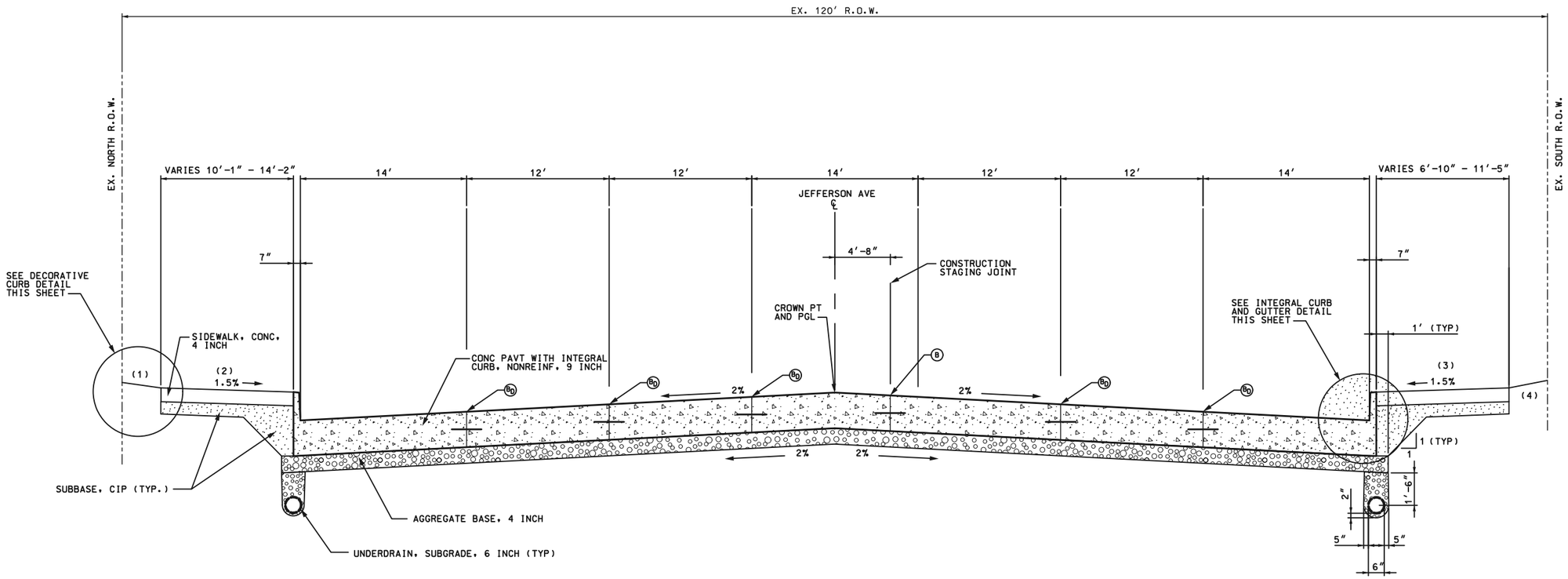


PROPOSED TYPICAL PAVEMENT SECTION

STA 1+35.00 TO STA 3+75.00
(LOOKING UPSTATION)

NOTES:

(1) BACKFILL TO MEET EXISTING GRADE @ R.O.W. STA 1+35.00 TO STA 2+10.31 (NORTH SIDE)

(2) 4" CONCRETE SIDEWALK FROM STA 1+35.00 TO STA 2+18.15 AND STA 3+00.53 TO STA 3+75.00 (NORTH SIDE)

(3) 4" CONCRETE SIDEWALK FROM STA 1+35.00 TO STA 2+10.32 AND STA 2+94.48 TO STA 3+75.00 (SOUTH SIDE)

(4) SLOPE RESTORATION, TYPE A APPLIES FROM STA 1+53.70 TO STA 2+10.31 AND STA 2+94.48 TO STA 3+75.00 (SOUTH SIDE)

(5) MSE WALL W/ AESTHETIC PARAPET TUBE RAIL W/ PEDESTRIAN FENCE STA 2+18.15 TO STA 2+42.05 AND STA 2+66.05 TO 3+00.53 (NORTH SIDE)

(6) @ BRIDGE - AESTHETIC PARAPET TUBE RAIL W/ PEDESTRIAN FENCE STA 2+42.05 TO STA 2+66.05 (NORTH SIDE)

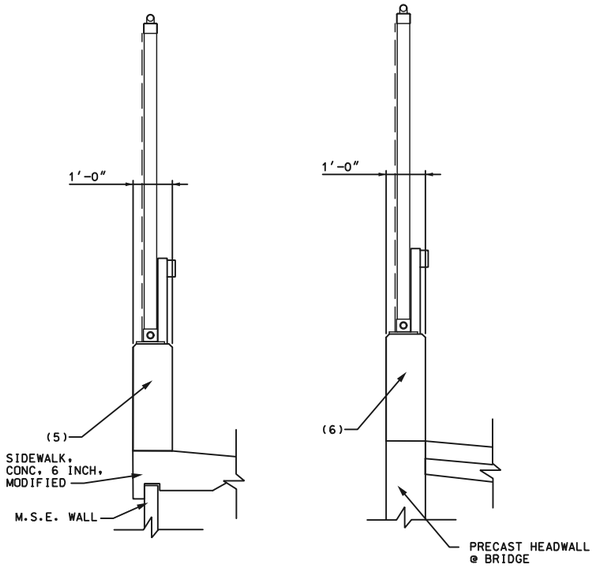
(7) @ BRIDGE - AESTHETIC PARAPET TUBE RAIL W/ PEDESTRIAN FENCE STA 2+45.05 TO STA 2+66.05 (SOUTH SIDE)

(8) MSE WALL W/ AESTHETIC PARAPET TUBE RAIL W/ PEDESTRIAN FENCE STA 2+10.31 TO STA 2+42.05 AND STA 2+66.05 TO 2+94.48 (SOUTH SIDE)

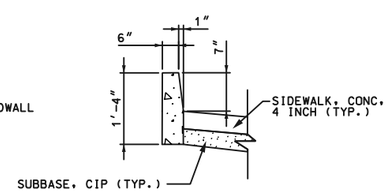
JOINT LEGEND

B - LONGITUDINAL BULKHEAD JOINT, SEALED ACCORDING TO STANDARD PLAN R-42 SERIES, SYMBOL (B)

D - LONGITUDINAL LANE TIE JOINT WITH TIE BARS, SEALED ACCORDING TO STANDARD PLAN R-42 SERIES, SYMBOL (D)

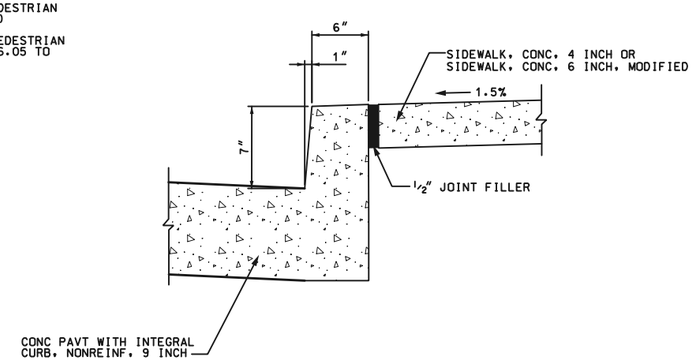


END CONDITIONS (NORTH SIDE)

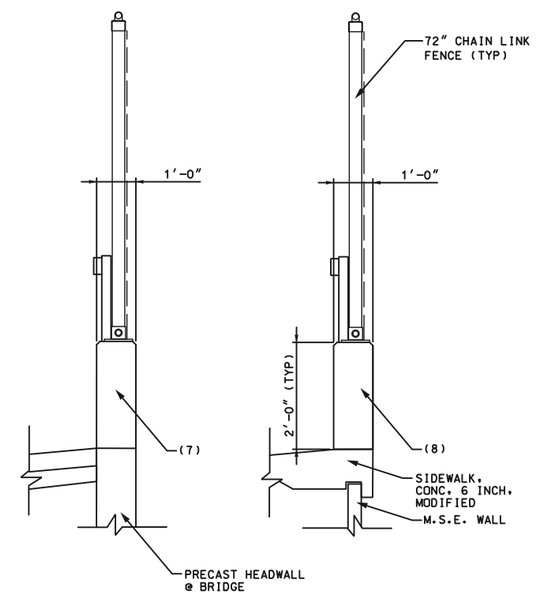


DECORATIVE CURB DETAIL

STA 300+00.53 TO STA 3+75.00 (NORTH SIDE)
DECORATIVE CURB TO BE PAID FOR AS "CURB, CONC, DET E2"



INTEGRAL CURB AND GUTTER, NONREINF, 9 INCH



END CONDITIONS (SOUTH SIDE)

REV#	DATE	DESCRIPTION	BY

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WADE TRIM
500 Griswold, Suite 2500
Detroit, MI 48226
(313) 962-7850
FAX: 313.961.8899
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CITY ENGINEERING DIVISION
JEFFERSON AVE. OVER CONRAIL
PROPOSED TYPICAL PAVEMENT SECTION

ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-12T

SHEET 20

JEFFERSON AVE. BRIDGE

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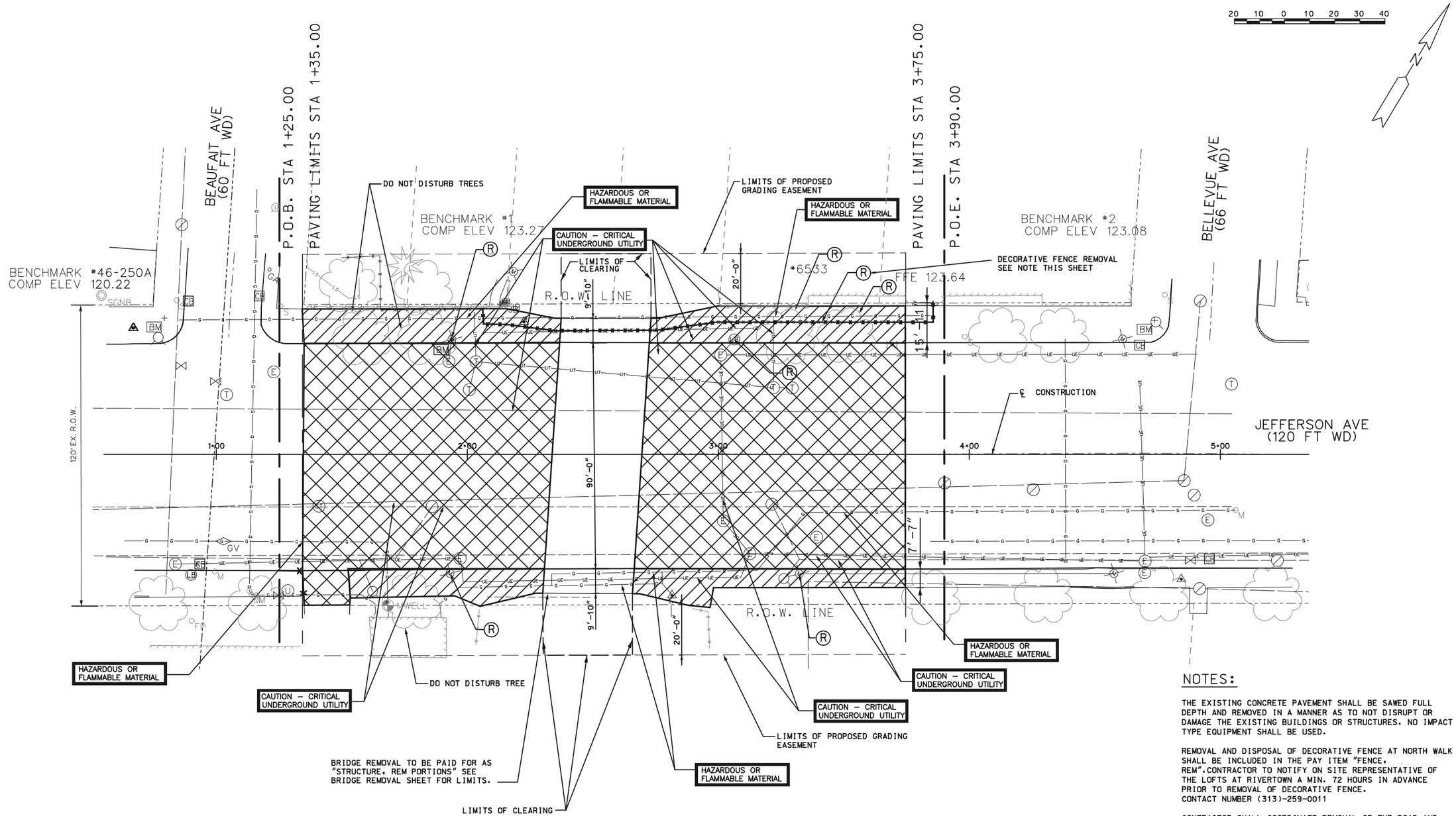
PROJECT MANAGER: -
c:\pw_work\vbreen\d0401191\CPT-PLTS-RoadProposedTypical.dgn
FIELD BOOK INFORMATION: -
PLOTTED 4/1/2014 9:32:48 AM BY rbreen



LEGEND

Ⓡ	REMOVE
×—×—×	CURB AND GUTTER, REM
	SIDEWALK, REM
	HMA SURFACE, REM AND PAVT, REM

PLD REMOVAL NOTES

THE PAY ITEM "CONDUIT, REM" SHALL INCLUDE REMOVAL OF THE EXISTING PLD DUCT BANK FROM WEST M.H. TO REF LINE A AND FROM REF LINE B TO EAST M.H.

REMOVAL OF EXISTINGT PLD DUCT BANK BETWEEN REF LINE A AND REF LINE B SHALL BE INCLUDED IN THE PAY ITEM, "STRUCT, REMOVE PORTIONS".

ANY CABLE REMOVAL SHALL BE INCLUDED IN THE PAY ITEM, "CONDUIT, REM", UNLESS IT IS REMOVED BY PLD. CONTRACTOR SHALL COORDINATE THIS REMOVAL WORK WITH PLD.

NOTES:

THE EXISTING CONCRETE PAVEMENT SHALL BE SAWED FULL DEPTH AND REMOVED IN A MANNER AS TO NOT DISRUPT OR DAMAGE THE EXISTING BUILDINGS OR STRUCTURES. NO IMPACT TYPE EQUIPMENT SHALL BE USED.

REMOVAL AND DISPOSAL OF DECORATIVE FENCE AT NORTH WALK SHALL BE INCLUDED IN THE PAY ITEM "FENCE, REM".CONTRACTOR TO NOTIFY ON SITE REPRESENTATIVE OF THE LOFTS AT RIVERTOWN A MIN. 72 HOURS IN ADVANCE PRIOR TO REMOVAL OF DECORATIVE FENCE.
CONTACT NUMBER (313)-259-0011

CONTRACTOR SHALL COORDINATE REMOVAL OF THE ROAD AND BRIDGE WITH THE UTILITIES REQUIRING REMOVAL AND RELOCATION BY OTHERS.

REMOVAL QUANTITIES THIS SHEET

520	SYD	SIDEWALK, REM
2070	SYD	HMA SURFACE, REM
2070	SYD	PAVT, REM
475	CYD	EXCAVATION, EARTH
27	FT	CURB AND GUTTER, REM
237	FT	FENCE, REM
4	EA	LIGHT STD FDN, REM
2	EA	TREE, REM, 6 INCH TO 18 INCH
0.25	ACRE	CLEARING
60	FT	CONDUIT, REM

REV#	DATE	DESCRIPTION	BY

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500 Griswold, Suite 2500
Detroit, MI 48226
313.961.3650
FAX313.961.0898
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CITY ENGINEERING DIVISION
JEFFERSON AVE. OVER CONRAIL
ROAD REMOVAL PLAN

ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-12T

SHEET 21

JEFFERSON AVE. BRIDGE

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PLOTTED 6/12/2014 11:36:34 AM BY mzarzycka

PROJECT MANAGER: - FIELD BOOK INFORMATION: -
c:\pw_work\d0401191\CRP-PLTS-RoadRemovalPlan.dgn

BENCHMARKS

BM #46250: MONUMENT IN BOX AT NORTHEAST CORNER OR MT. ELLIOT AND JEFFERSON.
EL. 118.11

BM #1: TOP NORTHEAST BOLT OF METAL LIGHT POLE ON NORTH SIDE OF JEFFERSON 30' WEST OF BRIDGE, 1ST POLE EAST OF BEAUFAIT.
EL. 123.27

BM #46250A: MONUMENT IN BOX AT NORTHWEST CORNER OF JEFFERSON AND BEAUFAIT.
EL. 120.07

BM #2: ARROW ON HYDRANT AT NORTHWEST CORNER OF JEFFERSON AND BELLEVUE.
EL. 123.08

WITNESSES

BM #1: TOP NORTHEAST BOLT OF METAL LIGHT POLE ON NORTH SIDE OF JEFFERSON 30' WEST OF BRIDGE, 1ST POLE EAST OF BEAUFAIT.
EL. 123.27

BM #2: ARROW ON HYDRANT AT NORTHWEST CORNER OF JEFFERSON AND BELLEVUE.
EL. 123.08

DRIVEWAY QUANTITES

STATION	PROPOSED DRIVE TOP WIDTH (FT)	DRIVEWAY, NONREINF CONC, 6 INCH (SYD)	PROPOSED DRIVE WIDTH AT CURB (FT)
1+44.34 RT	19.7	22	28.7

NOTES

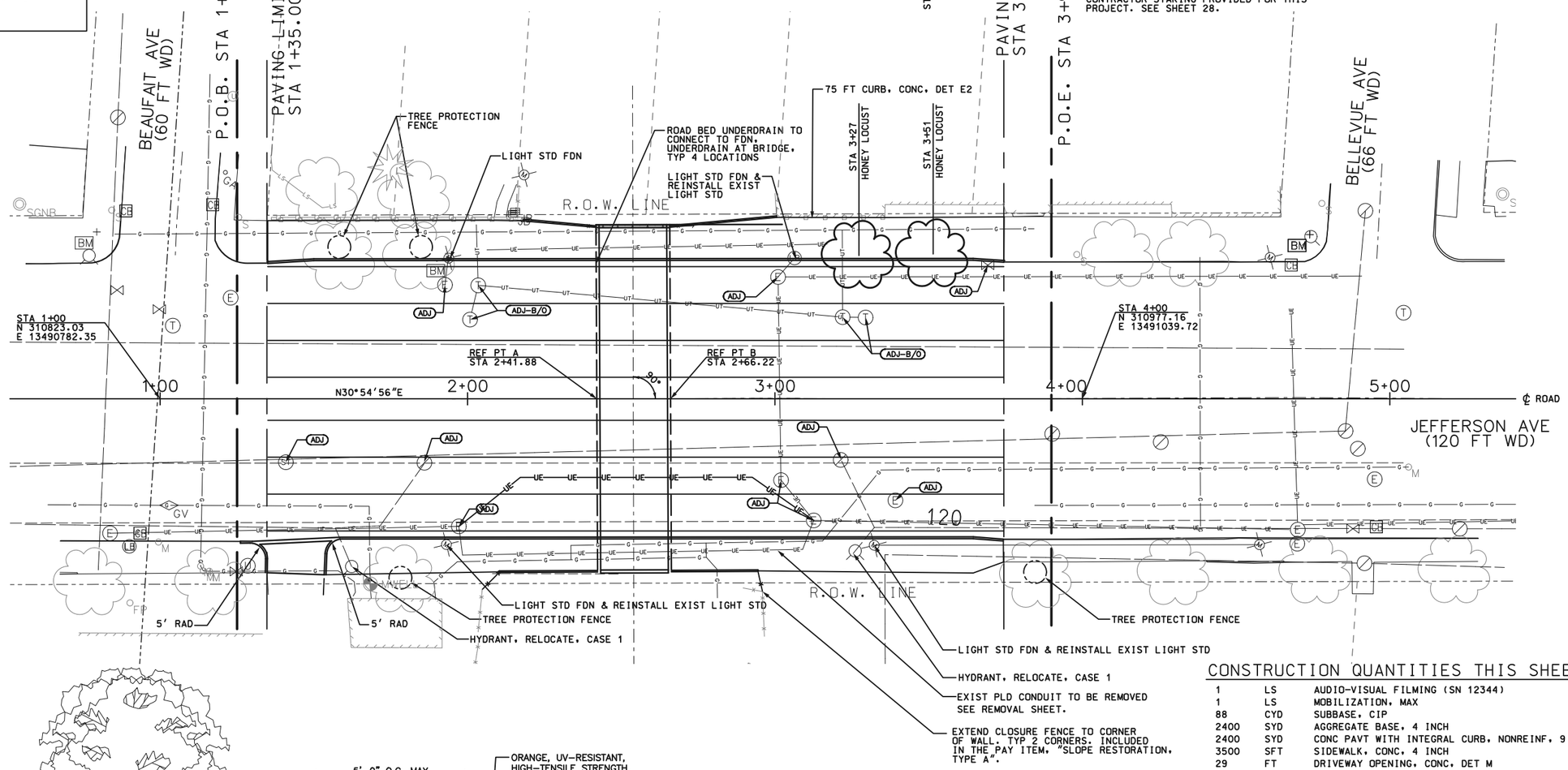
CONTRACTOR TO MEASURE BOLT PATTERN AND SIZE OF EXISTING LIGHT STD ANCHOR BOLTS. NEW ANCHOR BOLTS SHALL BE SUPPLIED AND INSTALLED IN NEW FOUNDATIONS. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "LIGHT STD SHAFT, INSTALL SALV"

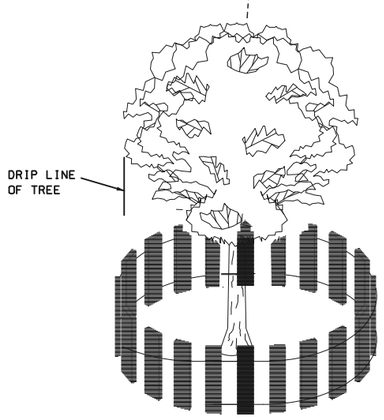
PAVEMENT LANE MARKINGS SHALL TIE INTO EXIST LANE MARKINGS EACH END OF PROJECT.

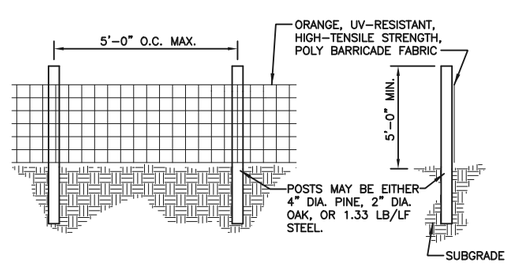
CONTRACTOR SHALL REUSE EXISTING WIRING FOR STREET LIGHTING. COORDINATE WORK WITH PLD.

EXISTING PRIVATE UTILITIES TO BE RELOCATED BY OTHERS. PLD DUCT BANK TO BE RECONSTRUCTED BY CONTRACTOR. SEE SHEETS 44 AND 45.

CONTRACTOR STAKING PROVIDED FOR THIS PROJECT. SEE SHEET 28.







TREE PROTECTION DETAIL
NTS

TREE PROTECTION NOTES:

1. INSTALL HDPE FENCE AT DRIP LINE OF TREE.
2. MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT.
3. IN SPITE OF PRECAUTIONS, SOME DAMAGE TO TREES MAY OCCUR. IN SUCH CASES REPAIR ANY DAMAGE TO CROWN, TRUNK OR ROOT SYSTEM IMMEDIATELY. CONSULT WITH LICENSED ARBORIST TO DETERMINE PROPER STEPS TO ADDRESS SUCH DAMAGE.
4. SEE SPECIAL PROVISION FOR FENCE, TREE PROTECTION FOR MATERIALS AND SPECIFICATIONS.

CONSTRUCTION QUANTITIES THIS SHEET

1	LS	AUDIO-VISUAL FILMING (SN 12344)
1	LS	MOBILIZATION, MAX
88	CYD	SUBBASE, CIP
2400	SYD	AGGREGATE BASE, 4 INCH
2400	SYD	CONC PAVT WITH INTEGRAL CURB, NONREINF, 9 INCH
3500	SFT	SIDEWALK, CONC, 4 INCH
29	FT	DRIVEWAY OPENING, CONC, DET M
75	FT	CURB, CONC, DET E2
4	EA	DR STRUCTURE COVER, ADJ, CASE 1
2	EA	GATE BOX, ADJ, CASE 1
1	EA	WATER SHUTOFF, ADJ, CASE 1
1620	FT	JOINT CONTRACTION, CP
1	EA	DR STRUCTURE COVER, TYPE B
4	EA	LIGHT STD FDN
2	EA	HYDRANT, RELOCATE, CASE 1
360	FT	UNDERDRAIN, SUBGRADE, 6 INCH
4	EA	FENCE, TREE PROTECTION
2	EA	GLEDITSIA TRIACANTHOS INERMIS, 'SKYLINE' 1 1/2 INCH
1	LS	SITE PREPARATION, MAX (SN 12344)
1	LS	WATERING AND CULTIVATING, FIRST SEASON, MIN
1	LS	WATERING AND CULTIVATING, SECOND SEASON, MIN
1590	FT	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, WHITE
1060	FT	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, YELLOW
3	EA	LIGHT STD SHAFT, REM AND SALV
3	EA	LIGHT STD ARM, REM AND SALV
3	EA	LUMINAIRE, REM AND SALV
3	EA	LIGHT STD SHAFT, INSTALL SALV
3	EA	LIGHT STD ARM, INSTALL SALV
3	EA	LUMINAIRE, INSTALL SALV
100	SYD	SLOPE RESTORATION, TYPE A
22	SYD	DRIVEWAY, NONREINF CONC, 6 INCH

REV#	DATE	DESCRIPTION	BY

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DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION
JEFFERSON AVE. OVER CONRAIL
ROAD CONSTRUCTION PLAN

ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-12T

SHEET 22

JEFFERSON AVE. BRIDGE

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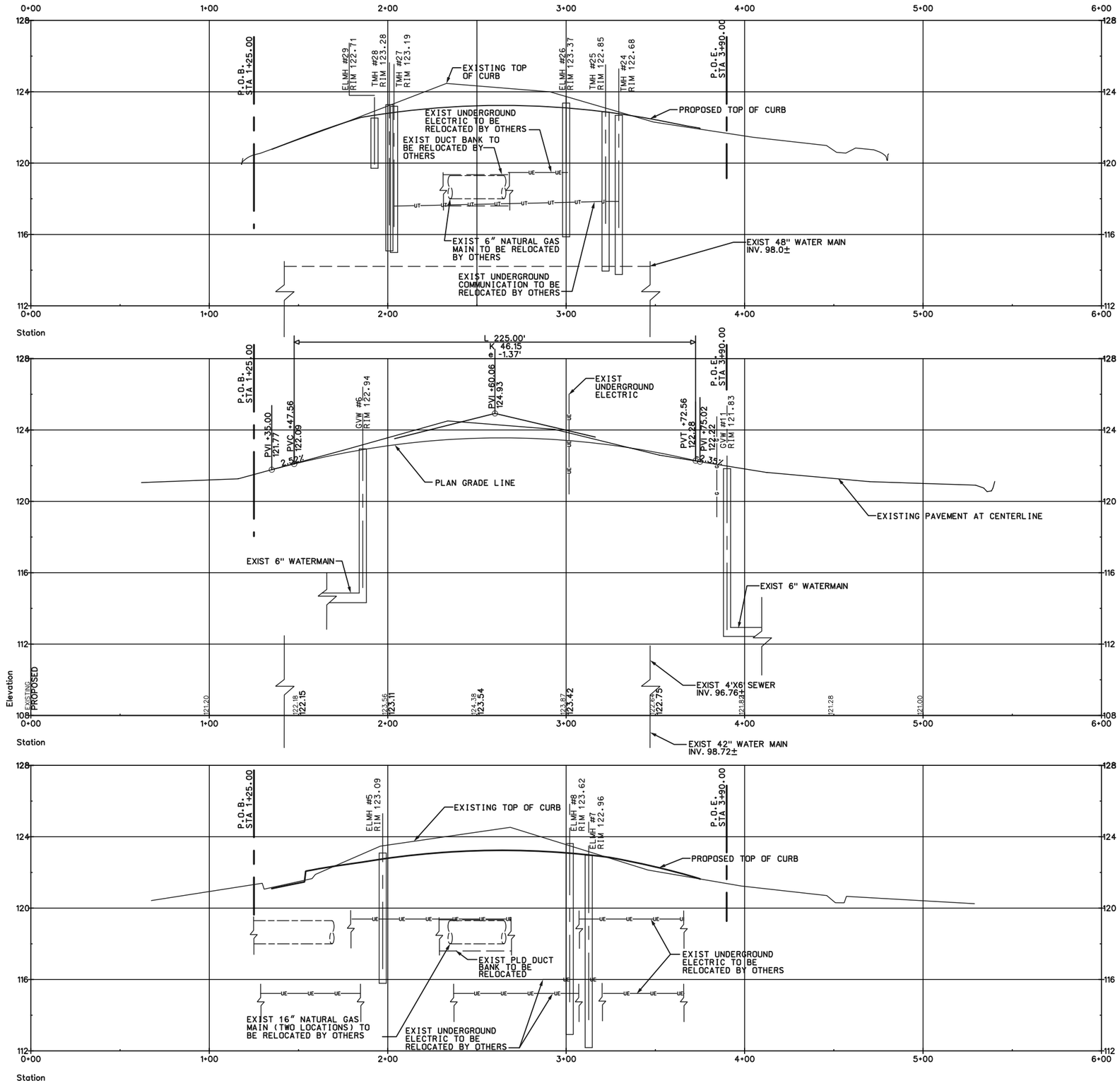
PROJECT MANAGER: - FIELD BOOK INFORMATION: -
c:\pw_work\rbreen\d0401191\CCP-PLTS-RoadConstructionPlan.dgn



SCALE
1"= 3' VERT
1"= 30' HORIZ

REV#	DATE	DESCRIPTION	BY

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Detroit, MI 48226
313.961.3650
FAX:313.961.8999
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CITY ENGINEERING DIVISION
JEFFERSON AVE. OVER CONRAIL
ROAD PROFILE SHEET

ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-12T

SHEET 23

JEFFERSON AVE. BRIDGE

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PLOTTED 4/1/2014 9:45:00 AM BY rbreen

PROJECT MANAGER: -
c:\pw_work\rbreen\d0401191\CPS-PLTS-RoadProfileSheet.dgn

FIELD BOOK INFORMATION: -

TEST BORING NO. B-01
GROUND SURFACE EL. 126 FT DCD
(ESTIMATED FROM EXISTING DRAWINGS)
STA 2+22±, 43' ± LT

Elevation	Blows	Depth	Description
124.0			
123.3			8 inches of ASPHALTIC CEMENT CONCRETE
123.0	7 7 7		8.5 inches of PORTLAND CEMENT CONCRETE
122.6			FILL – Medium dense to loose fine to medium sand, trace to some gravel, trace silt, clay, cinders and brick pieces, brown and black, moist (SP)
120.5	3 4 3		
118.0			
117.5	3 3 5	14.9 7500*PP	FILL – Very stiff silty clay, trace sand and GRAVEL, occasional cinder pockets, brown (CL)
117.0			
115.5	19 19 3	18.0 <>	Very stiff SILTY CLAY, trace sand and gravel, brown (CL)
110.5	6 9 13	15.0 7500*PP	
109.0			
105.5	5 9 15	16.5 3500*PP	Stiff SILTY CLAY, trace sand and gravel, gray (CL)
			BOTT/FOOTING ABUTMENT EL 101.0 FT DCD
100.5	4 6 10	17.2 3500*PP	
99.0			
95.5	2 3 5	17.6 <>	
90.5	1 1 3	18.0 1550	Medium SILTY CLAY, trace sand and gravel, gray (CL)
85.5	1 3 4	18.2 1200#TV	
80.5	2 3 4	1400#TV	
79.0			
75.5	4 5 6	10.2 800#TV	Soft SILTY SANDY CLAY, trace gravel, gray (CL)
70.5	1 1 2	800#TV	
69.0			
65.5	0 3 4	17.9 1200#TV	Soft to medium SILTY CLAY, trace sand and gravel, silty fine sand layer ELEV 4.5 to 4.0 ft. DCD, gray(CL)
60.5	1 3 3	18.4 1400#TV	
55.5	0 1 3	28.0 1000#TV	

TEST BORING NO. B-01 (CONTINUED)

Elevation	Blows	Depth	Description
50.5	0 1 3	27.6 1400#TV	
45.5	0 2 3	26.8 800#TV	
40.5	1 2 4	19.1 1800#TV	
			Soft to medium SILTY CLAY, trace sand and gravel, silty fine sand layer ELEV 4.5 to 4.0 ft. DCD, gray(CL)
35.5	1 3 4	18.0 1600#TV	
30.5	1 3 5	20.0 1600#TV	
25.5	2 5 6	19.6 1200#TV	
20.5	1 3 5	23.1 1800#TV	
15.5	1 4 6	18.0 1200#TV	
10.5	1 3 6	22.7 1800#TV	
5.5	1 15 42	27.7 1200	
4.0			
0.5	46 50/5"	10.5 9000+*PP	ESTIMATED PILE TIP ELEVATION 3 FT DIA. DRILLED SHAFT, NOMINAL RESISTANCE 810 KIP
			EL MINUS 1.0 FT DCD
			Very stiff to hard SILTY SANDY CLAY, trace gravel, gray (CL)
−4.5	50/3"	12.6 7500*PP	
−9.5	54 100/5"	11.1 6000*PP	
−11.0			

NOTES:
NO GROUNDWATER ENCOUNTERED DURING DRILLING
GROUNDWATER WAS NOT REPORTED UPON COMPLETION OF DRILLING DUE TO WASH ROTARY DRILLING METHODS

BORING TERMINATED AT A DEPTH OF 135.0 FEET BELOW EXISTING GRADE (EL. MINUS 11.0 FEET DCD).

POOR RECOVERY AT 45 AND 55 FT DEPTH SAMPLES.

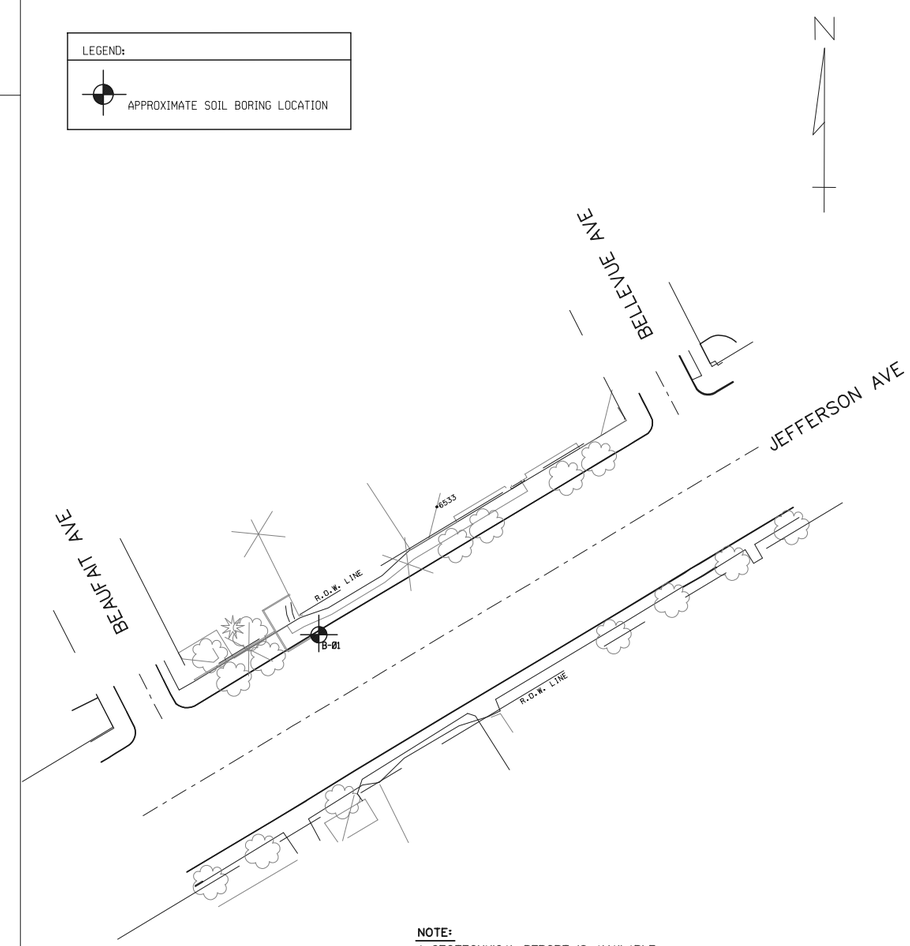
DRILL RIG: CME 55 (AUTOMATIC HAMMER)
DRILL METHOD: 2¼INCH HSA/WR
BACKFILLED WITH: GROUT & PATCH

DATE STARTED: 04-16-13
DATE COMPLETED: 04-17-13

ENGINEER ON RIG: K.BROWN

LEGEND:

APPROXIMATE SOIL BORING LOCATION



NOTE:
A GEOTECHNICAL REPORT IS AVAILABLE FROM THE CITY ENGINEER OFFICE (313) 224-3995

LOCATION PLAN

1ST 6 inch 13 % MC
2ND 6 inch 16 UCS (PSF)
3RD 6 inch 14

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

ELEVATION AT SAMPLES = TOP ELEVATION

LABORATORY AND FIELD TEST RESULTS SHOWN INDICATE:

MC - MOISTURE CONTENT (PERCENT)
UCS - UNCONFINED COMPRESSIVE STRENGTH LABORATORY DETERMINED POUNDS/SQ.FT (PSF)
*PP UNCONFINED COMPRESSIVE STRENGTH USING POCKET PENETROMETER POUNDS/SQ.FT (PSF)
*TV UNCONFINED COMPRESSIVE STRENGTH USING TORVANE TEST POUNDS/SQ.FT (PSF)
< > DISTURBED SAMPLE

NR NO RECOVERY

37/0" WHERE THE SAMPLER IS DRIVEN DISTANCES OTHER THAN 18 inches, THE DISTANCE IS SHOWN IN THE CIRCLE WITH THE NUMBER OF BLOWS IN THE FORM OF A FRACTION. (DISTANCE IS IN INCHES).

CONSISTENCY WAS DETERMINED BY INSPECTION OF SAMPLES AND SUBSTANTIATED BY SOIL RESISTANCE TO DRILLING TOOLS (CASING OR AUGER). UNIFIED SOIL CLASSIFICAITON SYSTEM (USCS) GROUP SYMBOL DETERMINED PER ASTM VISUAL-MANUAL PROCEDURES.

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

GROUNDWATER LEVELS REPRESENT THE CONDITIONS AT THE TIME THE MEASUREMENTS WERE OBTAINED AND SHOULD BE EXPECTED TO FLUCTUATE THROUGHOUT THE YEAR. GROUNDWATER LEVELS MAY ALSO BE INFLUENCED BY RESIDUAL BORING WATER.

Somat Engineering, INCORPORATED

REV	DATE	DESCRIPTION	BY
REV*1	10/28/13	FOUNDATION REVISION	RRB
REV*			

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DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION
ADELAIDE ST. OVER DEQUINDRE CUT S.N. 12446
LOG OF BORING

ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-09T

SHEET 25

ADELAIDE STREET BRIDGE

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PROJECT MANAGER: -
c:\pw_work\d0401191\CBL-PLTS-SoilBoring1.dgn
FIELD BOOK INFORMATION: -
PLOTTED 6/12/2014 9:08:15 AM BY mzarzycka

TEST BORING NO. B-02
GROUND SURFACE EL. 126 FT DCD
(ESTIMATED FROM EXISTING DRAWINGS)
STA 2+19±, 40' ± RT

Elevation	Blows	Remarks
124.0		6 inches of ASPHALTIC CEMENT CONCRETE
123.5		11.75 inches of PORTLAND CEMENT CONCRETE
123.0	5 4 5	FILL – Mixed loose sand, gravel and cinders, trace roots, gray silty clay layer at 3 ft., DARK brown, moist
121.0		
122.5	1 2 2	
120.5		
119.5		
118.0	3 6 7	14.5 7500*PP
116.0		FILL – Very loose clayey fine sand, trace to some silt, trace gravel, dark brown, moist (SC)
115.5	13 14 15 21.5 <>	FILL – Very loose silty fine sand, trace gravel, brown, moist (SM)
110.5	7 12 17 17.5 7500*PP	Very stiff SILTY CLAY, trace to some sand, trace gravel, mottled brown and gray (CL) (Possible Fill)
105.5	6 10 17 16.9 3500*PP	Very stiff to stiff SILTY CLAY, trace sand and gravel, brown (CL)
101.0		BOTT/FOOTING ABUTMENT EL 101.50 FT DCD
100.5	3 7 9 15.9 3500*PP	
95.5	3 4 5 22.6 <>	Stiff SILTY CLAY, trace sand and gravel, gray (CL)
90.5	2 3 5 16.6 2500*PP	
89.0		
85.5	2 3 4 18.2 1200#TV	
80.5	1 2 3 20.2 1400#TV	Medium to soft SILTY CLAY, trace sand and gravel, gray (CL)
75.5	1 2 3 17.9 800#TV	
70.5	0 2 3 19.8 800#TV	
65.5	0 2 4 19.9 970	
60.5	0 3 4 21.3 1400#TV	
55.5	0 1 3 36.2 1000#TV	

TEST BORING NO. B-02 (CONTINUED)

Elevation	Blows	Remarks
50.5	0 1 3 25.9 1400#TV	Medium to soft SILTY CLAY, trace sand and gravel, gray (CL)
45.5	0 2 4 29.4 800#TV	
40.5	0 3 4 18.5 1800#TV	
35.5	1 2 5 18.9 1600#TV	
30.5	0 3 5 18.8 1600#TV	
25.5	1 3 5 20.4 1200#TV	
20.5	0 3 6 17.8 1800#TV	
15.5	1 4 5 23.0 1300	
10.5	1 3 5 23.1 1800#TV	
5.5	13 20 50/0" 11.1 6500*PP	
5.0		Very stiff to hard SILTY SANDY CLAY, trace gravel, gray (CL)
0.5	35 46 53 9.4 9000+*PP	ESTIMATED PILE TIP ELEVATION 3 FT DIA. DRILLED SHAFT, NOMINAL RESISTANCE 810 KIP EL MINUS 1.0 FT DCD
-4.5	20 50/2" 13.3 7500*PP	
-9.5	40 50/2" 11.7 6000*PP	
-11.0		

NOTES:
NO GROUNDWATER ENCOUNTERED DURING DRILLING
GROUNDWATER WAS NOT REPORTED UPON COMPLETION OF DRILLING DUE TO WASH ROTARY DRILLING METHODS

BORING TERMINATED AT A DEPTH OF 135.0 FEET BELOW EXISTING GRADE (EL. MINUS 11.0 FEET DCD).

DRILL RIG: CME 55 (AUTOMATIC HAMMER)
DRILL METHOD: 2¼INCH HSA/WR
BACKFILLED WITH: GROUT & PATCH

DATE STARTED: 04-15-13
DATE COMPLETED: 04-15-13

ENGINEER ON RIG: K.BROWN

TEST BORING NO. B-03
GROUND SURFACE EL. 126 FT DCD
(ESTIMATED FROM EXISTING DRAWINGS)
STA 2+70±, 3' ± LT

Elevation	Remarks
124.0	15 inches of ASPHALTIC CEMENT CONCRETE
122.8	
121.0	FILL – Crushed limestone aggregate, trace sand, silt and clay, possible concrete layer at 2 ft. (Base Material)

NOTES:
TWO MORE ATTEMPTS (B-03A AND B-03B WERE MADE AT NEAR BY LOCATIONS WITH SIMILAR RESULTS.

NO GROUNDWATER ENCOUNTERED DURING DRILLING
GROUNDWATER WAS NOT REPORTED UPON COMPLETION OF DRILLING

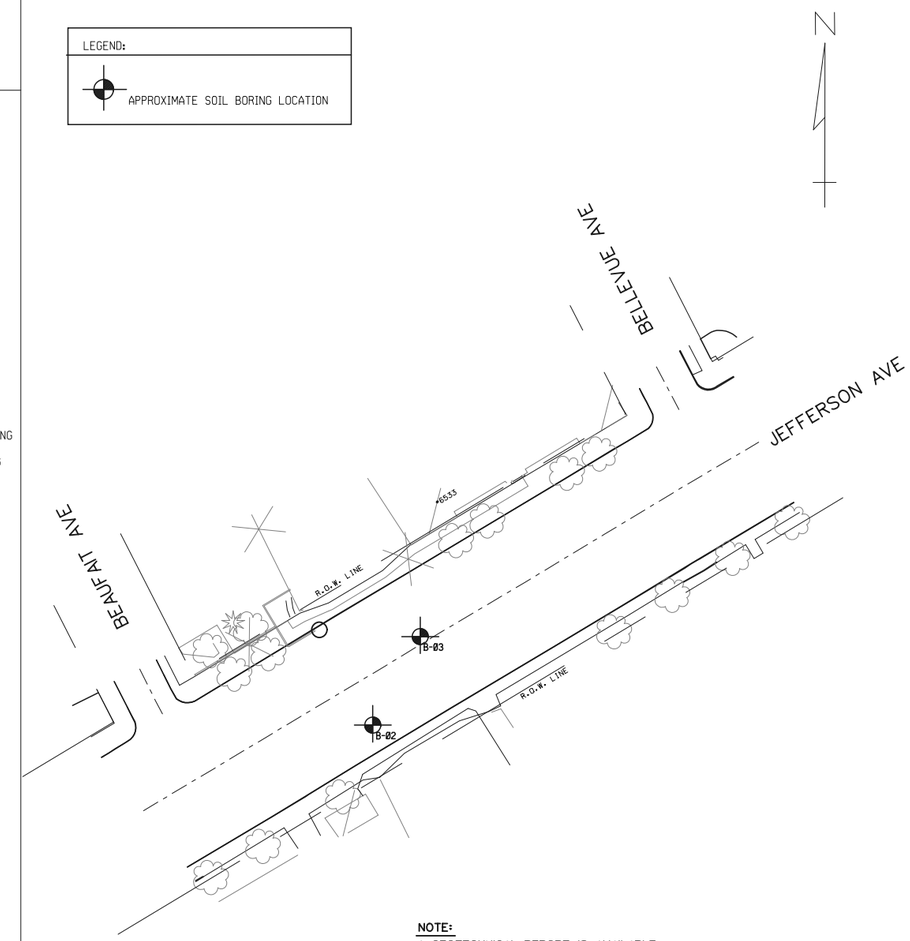
BORING TERMINATED AT A DEPTH OF 3.0 FEET BELOW EXISTING GRADE (EL. 121.0 FEET DCD).

DRILL RIG: CME 55 (AUTOMATIC HAMMER)
DRILL METHOD: 2¼INCH HSA/WR
BACKFILLED WITH: GROUT & PATCH

DATE STARTED: 04-18-13
DATE COMPLETED: 04-18-13

ENGINEER ON RIG: K.BROWN

LEGEND:
APPROXIMATE SOIL BORING LOCATION



NOTE:
A GEOTECHNICAL REPORT IS AVAILABLE FROM THE CITY ENGINEER OFFICE (313) 224-3995

LOCATION PLAN

1ST 6 inch 13 % MC
2ND 6 inch 16 UCS (PSF)
3RD 6 inch 14

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

ELEVATION AT SAMPLES = TOP ELEVATION

LABORATORY AND FIELD TEST RESULTS SHOWN INDICATE:

MC - MOISTURE CONTENT (PERCENT)
UCS - UNCONFINED COMPRESSIVE STRENGTH LABORATORY DETERMINED POUNDS/SQ.FT (PSF)
*PP UNCONFINED COMPRESSIVE STRENGTH USING POCKET PENETROMETER POUNDS/SQ.FT (PSF)
*TV UNCONFINED COMPRESSIVE STRENGTH USING TORVANE TEST POUNDS/SQ.FT (PSF)
< > DISTURBED SAMPLE

NR NO RECOVERY

37/0" WHERE THE SAMPLER IS DRIVEN DISTANCES OTHER THAN 18 inches, THE DISTANCE IS SHOWN IN THE CIRCLE WITH THE NUMBER OF BLOWS IN THE FORM OF A FRACTION. (DISTANCE IS IN INCHES).

CONSISTENCY WAS DETERMINED BY INSPECTION OF SAMPLES AND SUBSTANTIATED BY SOIL RESISTANCE TO DRILLING TOOLS (CASING OR AUGER). UNIFIED SOIL CLASSIFICAITON SYSTEM (USCS) GROUP SYMBOL DETERMINED PER ASTM VISUAL-MANUAL PROCEDURES.

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

GROUNDWATER LEVELS REPRESENT THE CONDITIONS AT THE TIME THE MEASUREMENTS WERE OBTAINED AND SHOULD BE EXPECTED TO FLUCTUATE THROUGHOUT THE YEAR. GROUNDWATER LEVELS MAY ALSO BE INFLUENCED BY RESIDUAL BORING WATER.

Somat Engineering, INCORPORATED

REV#	DATE	DESCRIPTION	BY
REV*1	10/28/13	FOUNDATION REVISION	RRB

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500 Griswold, Suite 2500
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313.961.3650
FAX 313.961.0898
www.wadetrim.com
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CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION
ADELAIDE ST. OVER DEQUINDRE CUT S.N. 12446
LOG OF BORING

ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-09T

SHEET 26

ADELAIDE STREET BRIDGE

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PROJECT MANAGER: - FIELD BOOK INFORMATION: -
c:\pw_work\d0401191\CBL-PLTS-SoilBoring2.dgn
PLOTTED 6/12/2014 9:09:16 AM BY mzarzycka

TEST BORING NO. B-03C
GROUND SURFACE EL. 124 FT DCD
(ESTIMATED FROM EXISTING DRAWINGS)
STA 2+70±, 3'± LT

Elev.	N-value	Qu (tsf) / Qp (tsf)	Description
124.0			6.25 inches of ASPHALTIC CEMENT CONCRETE
123.5			8 inches of PORTLAND CEMENT CONCRETE
123.0	45/5"		FILL – Crushed limestone aggregate, trace sand, silt and clay (Base Material)
122.8			
121.0	6 4 4		FILL – Loose clayey fine sand/silty sandy clay, trace gravel and glass pieces, dark brown (SC/CL)
120.5			
118.5	6 7 10	11.8 9000+*PP	
118.0			
116.5	7 11 15	14.7 8500*PP	FILL – Hard silty sandy clay, trace gravel, frequent clayey sand seams and clayey silt pockets, brown (CL)
115.5			
110.5	7 12 18	15.1 9000*PP	
			Hard SILTY CLAY, trace to some sand, trace gravel, brown (CL)
105.5	5 8 11	15.4 3500*PP	
105.0			
			BOTT/FOOTING ABUTMENT EL 101.50 FT DCD
100.5	2 5 5	15.3 5000*PP	
			Very stiff to stiff SILTY CLAY, trace sand and gravel, gray (CL)
95.5	3 4 6	17.4 3000*PP	
90.5	2 3 4	17.5 2000#TV	
89.0			
85.5	1 2 4	17.0 1400#TV	
80.5	1 2 4	16.6 990	Medium to soft SILTY CLAY, trace sand and gravel, silty sandy clay layer ELEV 75 to 73 ft. DCD, occasional clayey silt pockets below ELEV 14 ft. DCD, GRAY (CL)
75.5	2 6 4	11.8 1400#TV	
70.5	2 2 2	18.3 1000#TV	
65.5	1 3 3	18.8 1200#TV	
60.5	0 3 3	21.9 1200#TV	
55.5	0 2 2	32.0 600#TV	

TEST BORING NO. B-03C (CONTINUED)

Elev.	N-value	Qu (tsf) / Qp (tsf)	Description
50.5	0 1 2	27.1 1000#TV	Medium to soft SILTY CLAY, trace sand and gravel, silty sandy clay layer ELEV 75 to 73 ft. DCD, occasional clayey silt pockets below ELEV 14 ft. DCD, GRAY (CL)
45.5	0 2 3	26.1 600#TV	
40.5	0 2 4	17.3 1000#TV	
35.5	1 3 4	17.3 1460	
30.5	2 4 6	19.5 1600#TV	
25.5	1 4 5	21.1 1600#TV	
20.5	1 3 4	21.7 1800#TV	
15.5	1 2 5	23.3 1400#TV	
10.5	1 4 6	21.2 1400#TV	
5.5	19 18 22		Dense SILTY FINE SAND, trace to some clay, trace gravel, gray, wet (SM)
5.0			
4.0			
0.5	37 50/5"	10.0 9000+*PP	ESTIMATED PILE TIP ELEVATION 3 FT DIA. DRILLED SHAFT, NOMINAL RESISTANCE 810 KIP EL MINUS 1.0 FT DCD
			Hard SILTY SANDY CLAY, trace gravel, gray (CL)
−4.5	29 50/5"	14.4 9000+*PP	
−9.5	100/6"	9.8 9000+*PP	
−11.0			

NOTES:
NO GROUNDWATER ENCOUNTERED DURING DRILLING
GROUNDWATER WAS NOT REPORTED UPON COMPLETION OF DRILLING DUE TO WASH ROTARY DRILLING METHODS

BORING TERMINATED AT A DEPTH OF 135.0 FEET BELOW EXISTING GRADE (EL. MINUS 11.0 FEET DCD).

SAMPLE SS1 IS FROM FIRST BORING ATTEMPT.

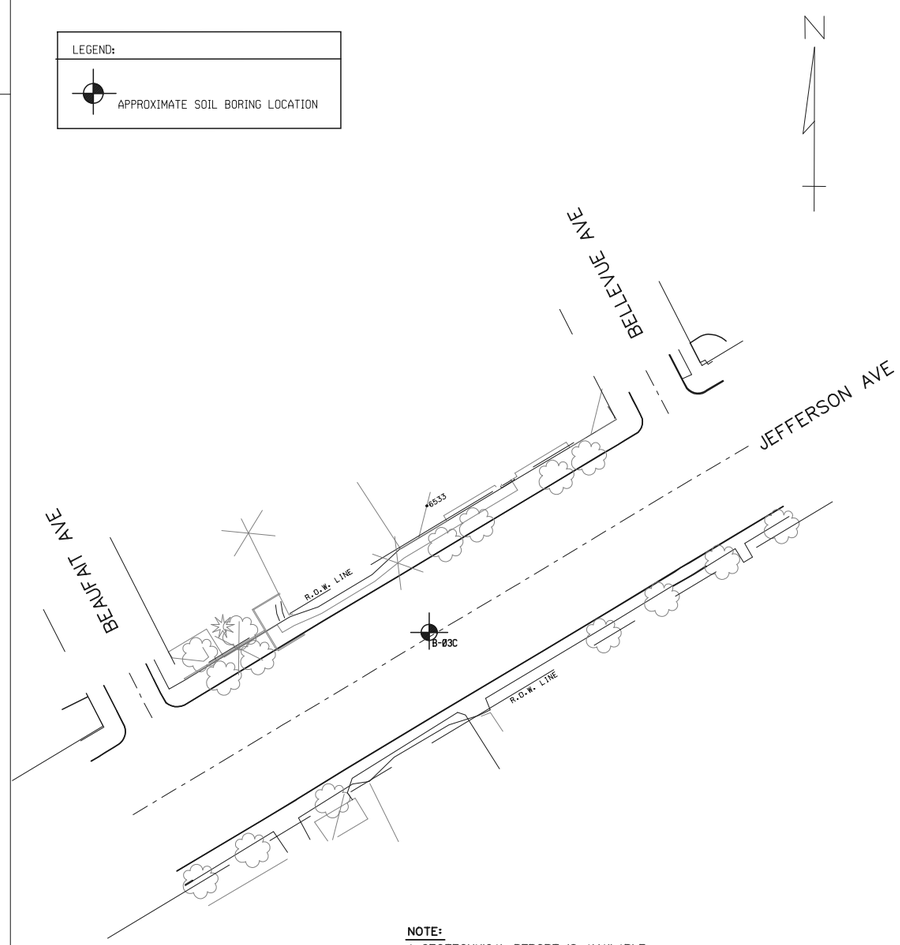
DRILL RIG: CME 55 (AUTOMATIC HAMMER)
DRILL METHOD: 2¼INCH HSA/WR
BACKFILLED WITH: GROUT & PATCH

DATE STARTED: 04-18-13
DATE COMPLETED: 04-19-13

ENGINEER ON RIG: K.BROWN

LEGEND:

APPROXIMATE SOIL BORING LOCATION



NOTE:
A GEOTECHNICAL REPORT IS AVAILABLE FROM THE CITY ENGINEER OFFICE (313) 224-3995

LOCATION PLAN

1ST 6 inch 13 % MC
2ND 6 inch 16 UCS (PSF)
3RD 6 inch 14

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

ELEVATION AT SAMPLES = TOP ELEVATION

LABORATORY AND FIELD TEST RESULTS SHOWN INDICATE:

MC - MOISTURE CONTENT (PERCENT)
UCS - UNCONFINED COMPRESSIVE STRENGTH LABORATORY DETERMINED POUNDS/SQ.FT (PSF)
*PP UNCONFINED COMPRESSIVE STRENGTH USING POCKET PENETROMETER POUNDS/SQ.FT (PSF)
*TV UNCONFINED COMPRESSIVE STRENGTH USING TORVANE TEST POUNDS/SQ.FT (PSF)
< > DISTURBED SAMPLE

NR NO RECOVERY

37/0" WHERE THE SAMPLER IS DRIVEN DISTANCES OTHER THAN 18 inches, THE DISTANCE IS SHOWN IN THE CIRCLE WITH THE NUMBER OF BLOWS IN THE FORM OF A FRACTION. (DISTANCE IS IN INCHES).

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Somat Engineering, INCORPORATED

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REV*1	10/28/13	FOUNDATION REVISION	RRB

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LOG OF BORING

ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-09T

SHEET 27

ADELAIDE STREET BRIDGE

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PROJECT MANAGER: - FIELD BOOK INFORMATION: -
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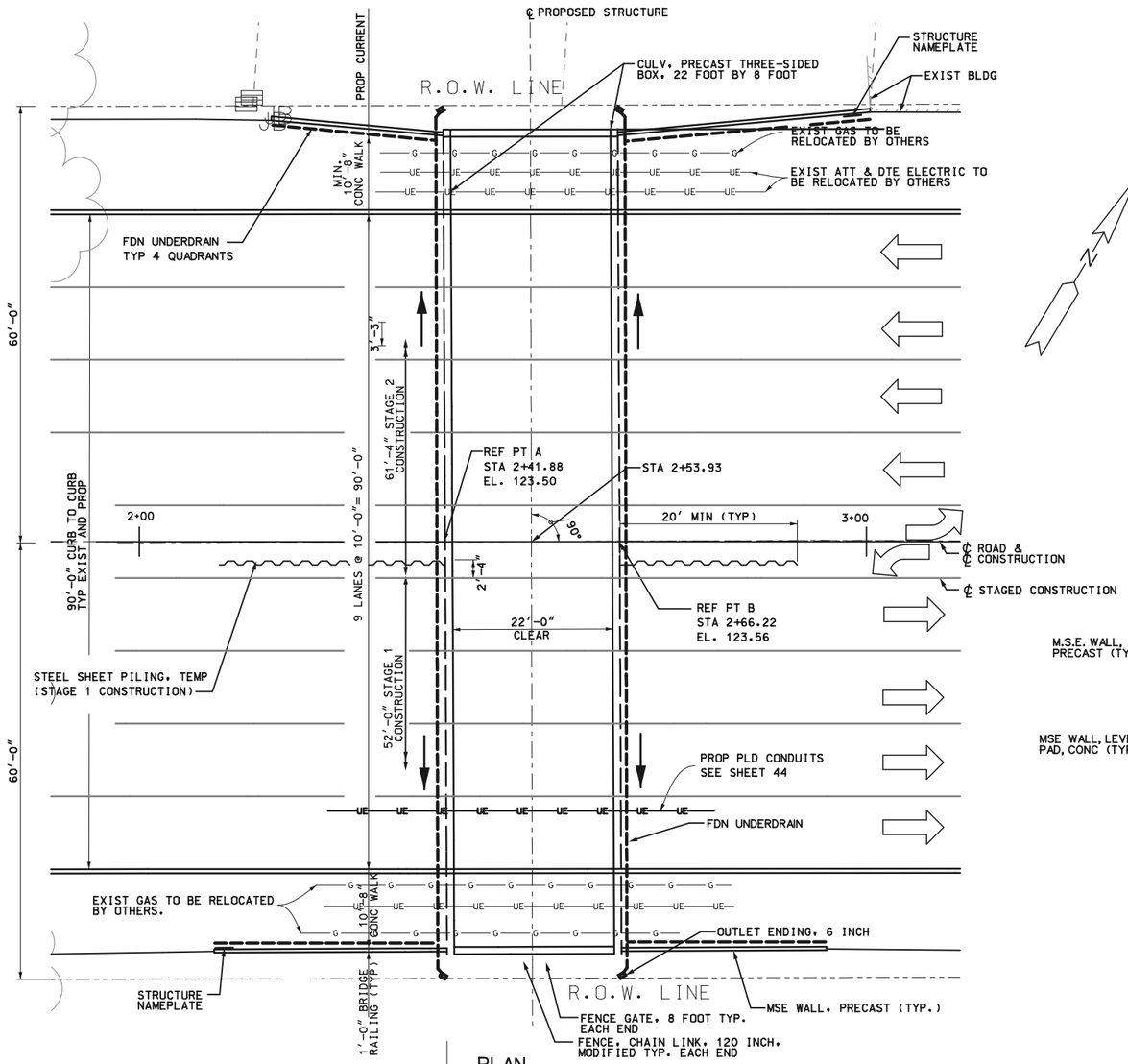
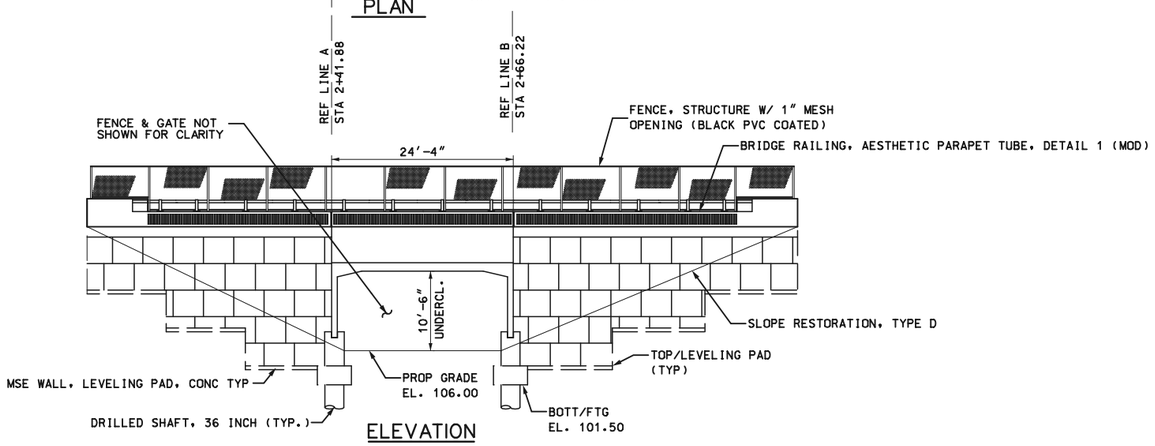
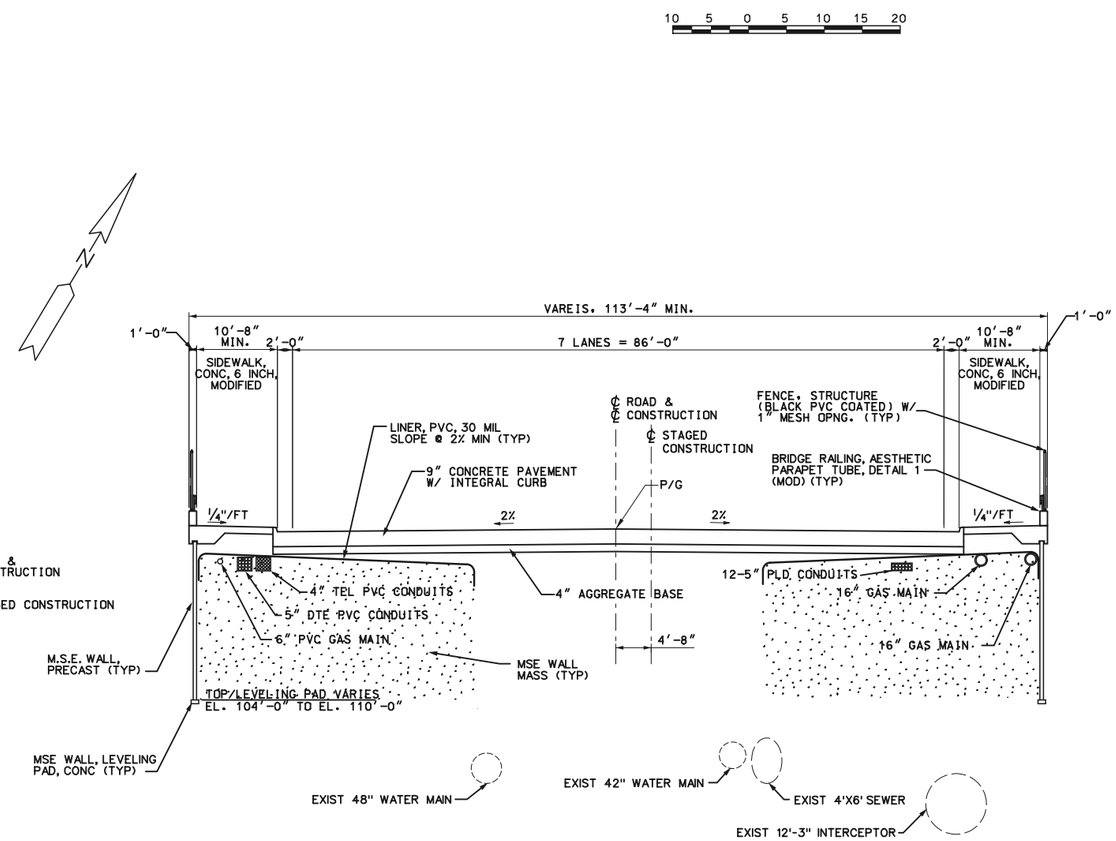
PLOTTED 6/12/2014 9:10:19 AM BY mzarzycka



PLAN



ELEVATION



APPROACH SECTION

(LOOKING UP STATION, EAST)

NOTES:

THE DESIGN OF THIS STRUCTURE IS BASED ON 1.2 TIMES THE CURRENT AASHTO LRFD BRIDGE DESIGN SPECIFICATION HL-93 LOADING WITH THE EXCEPTION THAT THE DESIGN TANDEM PORTION OF THE HL-93 LOAD DEFINITION SHALL BE REPLACED BY A SINGLE 60 KIP AXLE LOAD BEFORE APPLICATION OF THIS 1.2 FACTOR. THE RESULTING LOAD IS DESIGNATED HL-93 MOD.

EXISTING BRIDGE NAMEPLATES AND EXISTING STREETCAR RAILS ARE TO BE SALVAGED ON SITE AND SHALL BE GIVEN TO THE ENGINEER AND BECOME THE PROPERTY OF THE CITY OF DETROIT.

SEE REMOVAL SHEETS FOR LIMITS OF EXISTING STRUCTURE REMOVAL.

REFER TO STANDARD PLAN B-41 SERIES FOR FENCE DETAILS AT BRIDGE AND WINGWALLS. PLACE ANTI-CLIMB SHIELDS AT POSTS AS NOTED ON RAILING DETAIL SHEETS.

ITEMS CAST INTO STRUCTURAL PRECAST CONCRETE TO FACILITATE BRIDGE CONSTRUCTION SHALL BE GALVANIZED OR EPOXY COATED.

SEE SHEET 43 FOR DETAILS OF FENCE AND GATES AT CULVERT ENDS.

MISCELLANEOUS QUANTITIES

20000	DLR	AESBESTOS MATERIALS, REMOVEAL AND DISPOSAL
150	FT	EXPLORATORY INVESTIGATION, VERTICAL
1	LS	RELOCATION AND SITE CLEAN UP (SN 12344)
240	CYD	NON HAZ CONTAMINATED MATERIAL HANDLING AND DISPOSAL, LM
1	LS	STRUCTURES REM PORTIONS (SN 12344)
1	LS	PROJECT CLEANUP (SN 12344)
1300	CYD	BACKFILL, STRUCTURE, CIP
1800	CYD	EXCAVATION. FDN
250	CYD	BACKFILL, STRUCTURE, CIP, SPECIAL
2	EA	FENCE GATE, 8 FOOT, FOR 120 INCH CHAIN LINK FENCE
30	FT	FENCE, CHAIN LINK, 120 INCH, MODIFIED
316	FT	UNDERDRAIN, FDN, 6 INCH
16	FT	UNDERDRAIN, OUTLET, 6 INCH
4	EA	EROSION CONTROL, INLET PROTECTION, FABRIC DROP
400	FT	EROSION CONTROL, SILT FENCE
4	EA	UNDERDRAIN OUTLET ENDING, 6 INCH
200	SYD	SLOPE RESTORATION, TYPE D
1	LS	CONTRACTOR STAKING
8	HR	STAKING PLAN ERRORS AND EXTRAS, ONE PERSON
4	HR	STAKING PLAN ERRORS AND EXTRAS, TWO PERSON
6	HR	STAKING PLAN ERRORS AND EXTRAS, THREE PERSON

REV#	DATE	DESCRIPTION	BY

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JEFFERSON AVE. OVER CONRAIL
GENERAL PLAN OF STRUCTURE

ISSUED FOR: DATE: BY:

JEFFERSON AVE. BRIDGE

JOB NO. DTE 2025-12T

SHEET 28

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PLOTTED 6/12/2014 9:13:43 AM BY mzarzycka

PROJECT MANAGER: - FIELD BOOK INFORMATION: -
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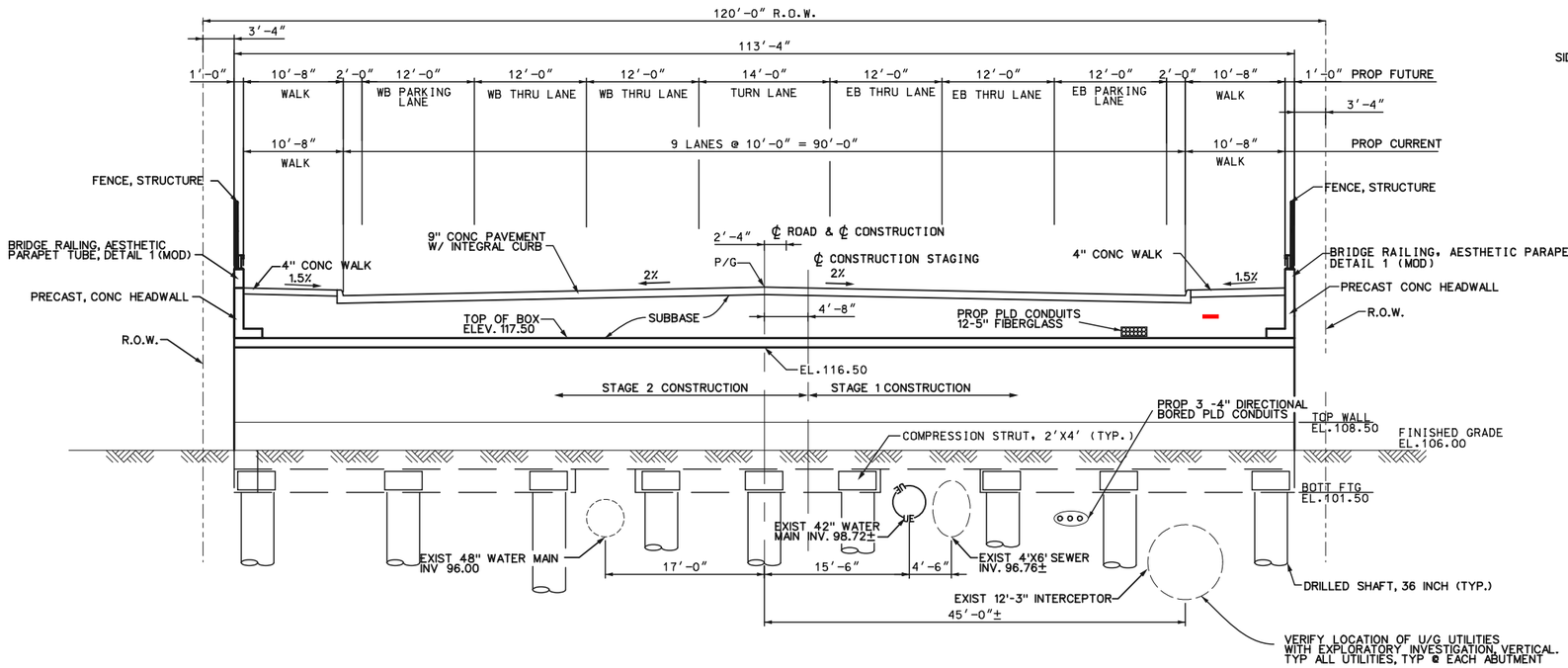
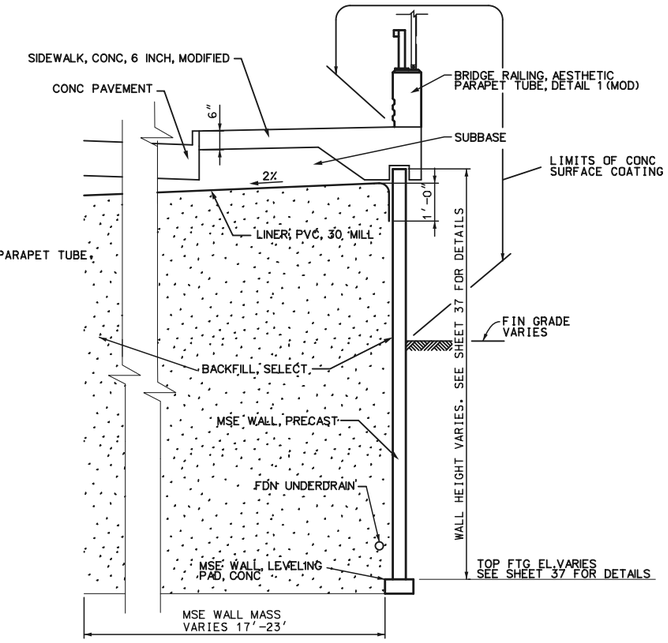


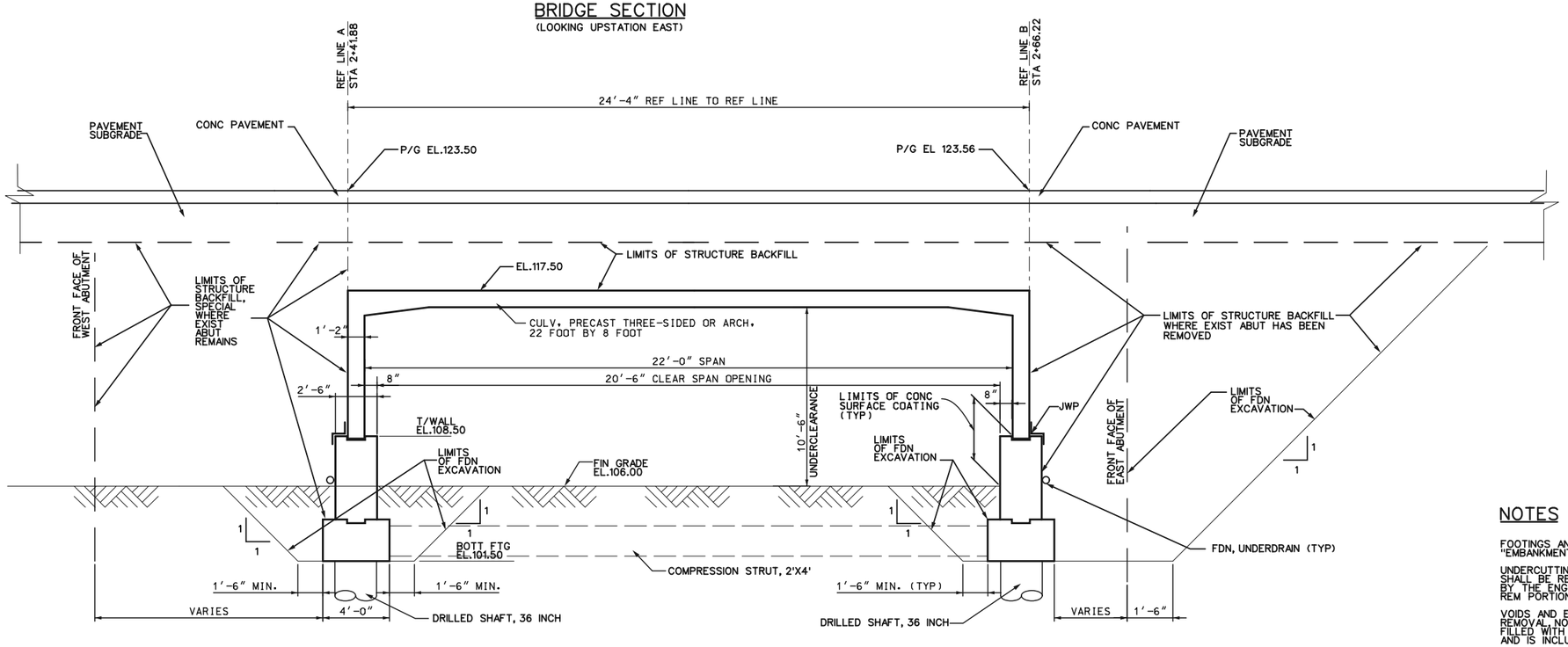
BRIDGE SECTION

(LOOKING UPSTATION EAST)



WINGWALL SECTION

SEE BRIDGE SECTION THIS SHEET FOR UTILITY INFORMATION



SECTION THRU ABUTMENT

NOTES

FOOTINGS AND MSE WALLS SHALL BEAR ON UNDISTRUBED EARTH OR "EMBANKMENT, STRUCTURE, CIP".

UNDERCUTTING CREATED BY OR REQUIRED FOR STRUCTURE REMOVAL SHALL BE RESTORED WITH "EMBANKMENT, STRUCTURE, CIP" AS DIRECTED BY THE ENGINEER AND IS INCLUDED IN THE PAYM ITEM "STRUCTURES, REM PORTIONS".

VOIDS AND EXCAVATING CREATED BY OR REQUIRED FOR STRUCTURE REMOVAL, NOT OTHERWISE FILLED BY "BACKFILL, SELECT", SHALL BE FILLED WITH "BACKFILL, STRUCTURE, CIP" AS DIRECTED BY THE ENGINEER AND IS INCLUDED IN THE PAY ITEM "STRUCTURES, REM PORTIONS".

ADDITIONAL EXCAVATIONS, FILLS AND MSE WALLS ARE INCLUDED IN THE PAYMENTS FOR "EXCAVATION, FDN", "BACKFILL, STRUCTURE, CIP" AND "BACKFILL, SELECT" AS SHOWN OR NOTED.

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CITY ENGINEERING DIVISION
JEFFERSON AVE. OVER CONRAIL
PLAN OF STRUCTURE DETAILS

ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-12T

SHEET 29

JEFFERSON AVE. BRIDGE

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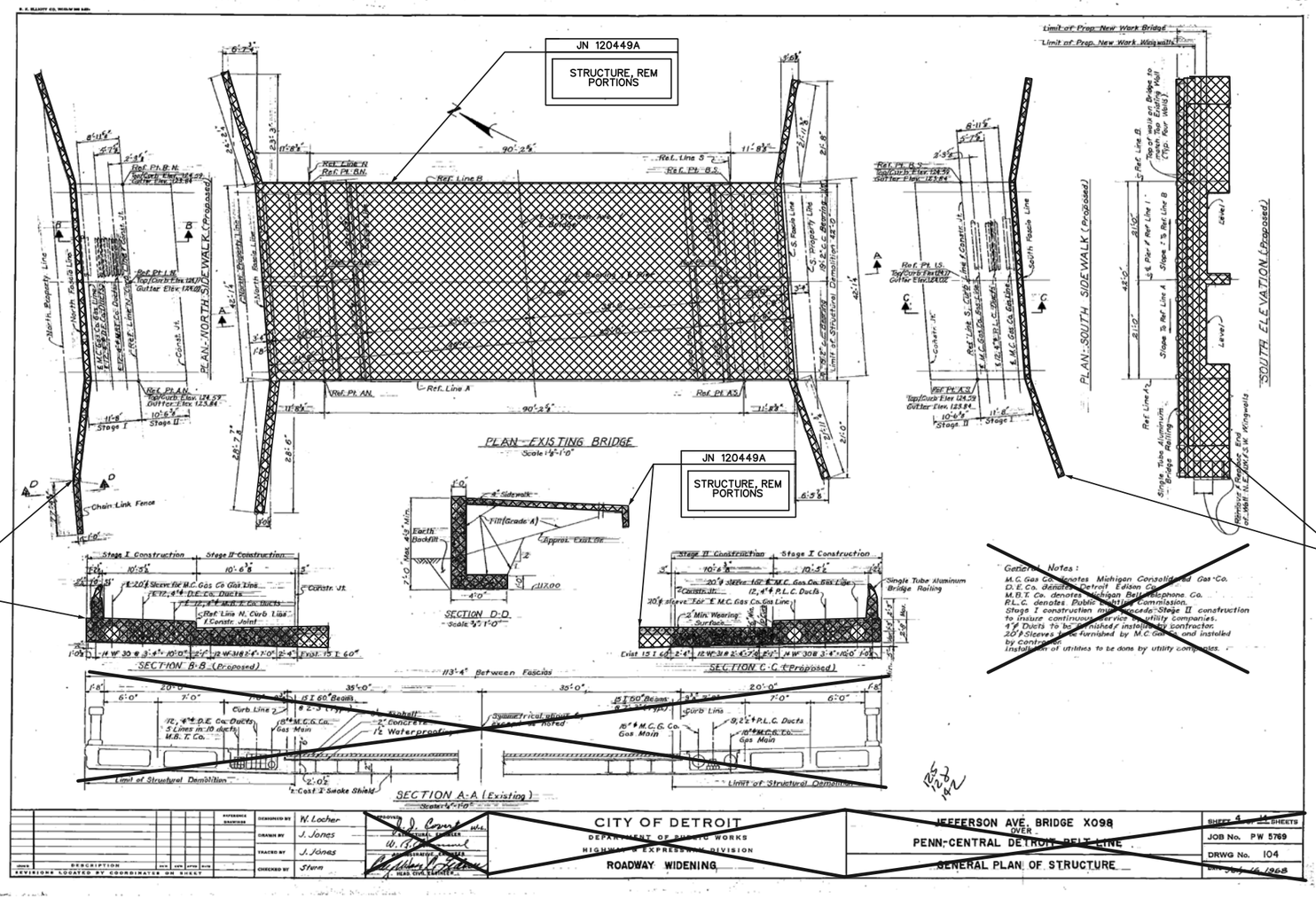
PROJECT MANAGER: - FIELD BOOK INFORMATION: - PLOTTED 6/12/2014 9:16:02 AM BY mzarzycka
c:\pw_work\d0401191\CPS-PLTS-PlanOfStructureDetails-28.dgn



REMOVAL NOTES

JOB NO. (120449A)

- DURING BRIDGE REMOVAL OPERATIONS, CARE SHALL BE TAKEN BY THE CONTRACTOR TO AVOID DAMAGING THE ADJACENT BLDDINGS THAT ARE TO REMAIN. DAMAGE TO THE BUILDINGS CAUSED BY CONTRACTORS REMOVAL OPERATIONS SHAL BE REPAIRED BY THE CONTRACTOR, AT THE CONTRACTORS EXPENSE.

- REMOVAL OF BRIDGE INCLUDED IN PAY ITEM "STRUCTURE, REM PORTIONS"

REMOVAL SHEET

JOB NO. (120449A)

THE ONLY ITEMS OF WORK TO BE DONE FROM THIS SHEET ARE IDENTIFIED BY USING THE LEGEND BELOW, LABELED WITH THIS PROJECTS JOB NUMBER

PROPOSED WORK

DENOTES REMOVAL PORTIONS

REV#	DATE	DESCRIPTION	BY

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JEFFERSON AVE. OVER CONRAIL
EXISTING PLAN (REM)

ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-12T

SHEET 30

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JEFFERSON AVE. BRIDGE

PROJECT MANAGER: -
FIELD BOOK INFORMATION: -
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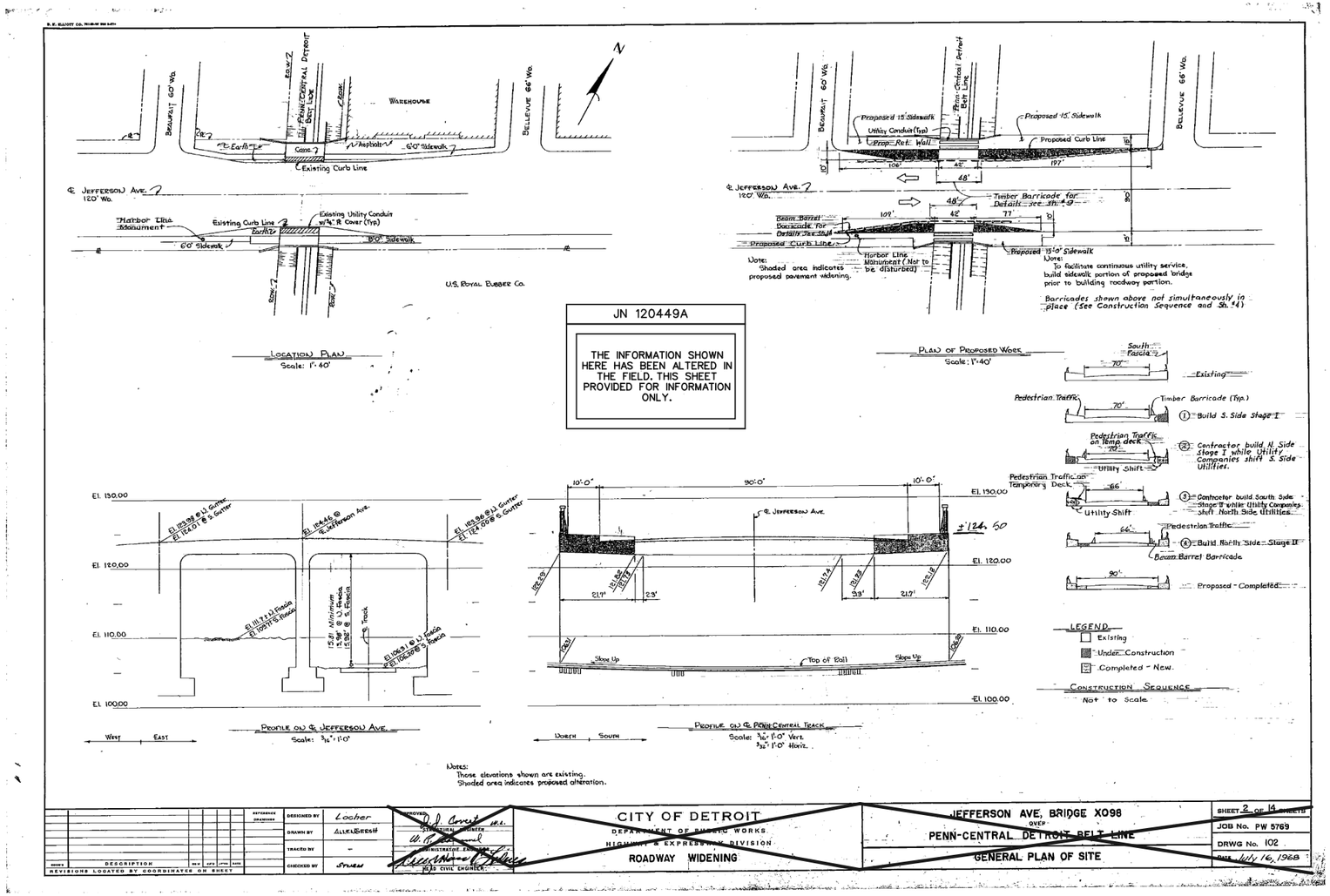

JN 120449A

THE INFORMATION SHOWN HERE HAS BEEN ALTERED IN THE FIELD. THIS SHEET PROVIDED FOR INFORMATION ONLY.

FOR INFORMATION ONLY

JOB NO. (120449A)

FOR INFORMATION ONLY

DO NOT WORK FROM THIS SHEET. INFORMATION SHOWN HERE IS FOR REFERENCE ONLY. NO PAY ITEMS SHOWN.

THE CONTRACTOR SHALL NOTE THE EXISTING UTILITIES LOCATED WITHIN THE EXISTING DECK AND LOCATED BELOW THE ABUTMENTS AND PIERS. EXTREME CARE SHALL BE TAKEN TO PROTECT THE UTILITIES DURING STRUCTURE REMOVAL. SAW CUTTING AND HAND CHIPPING SHALL BE USED TO MINIMIZE VIBRATIONS. THE CONTRACTOR SHALL NOTIFY UTILITY COMPAMIES PRIOR TO STRUCTURE REMOVAL.

REV#	DATE	DESCRIPTION	BY

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FAX 313.961.8868
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CITY ENGINEERING DIVISION
JEFFERSON AVE. OVER CONRAIL
EXSITING PLAN (REM)

ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-12T

SHEET 31

JEFFERSON AVE. BRIDGE

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PLOTTED 8/23/2013 1:15:12 PM BY Agronowski

PROJECT MANAGER: - FIELD BOOK INFORMATION: -
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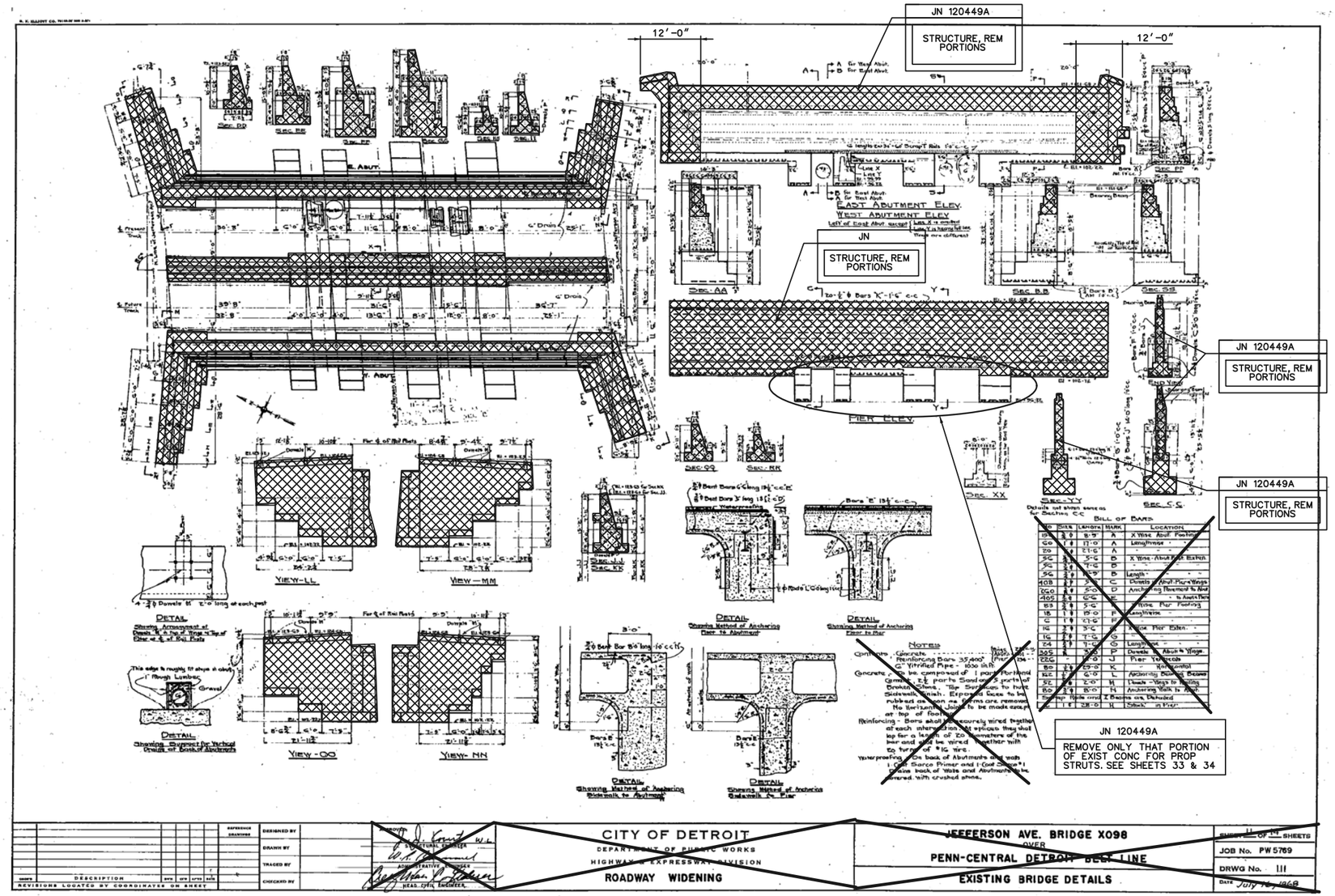

REMOVAL NOTES

JOB NO. (120449A)

- DURING BRIDGE REMOVAL OPERATIONS, CARE SHALL BE TAKEN BY THE CONTRACTOR TO AVOID DAMAGING THE ADJACENT BUILDINGS THAT ARE TO REMAIN. DAMAGE TO THE BUILDINGS CAUSED BY CONTRACTORS REMOVAL OPERATIONS SHAL BE REPAIRED BY THE CONTRACTOR, AT THE CONTRACTORS EXPENSE.

- REMOVAL OF BRIDGE DECK INCLUDED IN PAY ITEM 'STRUCTURE, REM PORTIONS'

- CONTRACTOR SHALL REMOVE THE EXISTING SUPERSTRUCTURE, ABUTMENTS, PIER AND WINGWALLS IN THEIR ENTIRETY AND/OR PORTIONS SO AS NOT TO INTERFERE WITH THE EXISTING CONCRETE STRADDLES PROTECTING THE UTILITIES OR THE PROPOSED CONSTRUCTION. SEE REMOVAL SHEETS.

- CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL A DETAILED DEMOLITION PLAN 14 BUSINESS DAYS PRIOR TO STARTING CONSTRUCTION. IT SHALL SHOW EXACT LIMITS OF REMOVAL AND SHALL IDENTIFY SEQUENCE OF REMOVAL.

REMOVAL SHEET

JOB NO. (120449A)

THE ONLY ITEMS OF WORK TO BE DONE FROM THIS SHEET ARE IDENTIFIED BY USING THE LEGEND BELOW, LABELED WITH THIS PROJECTS JOB NUMBER

PROPOSED WORK

DENOTES REMOVAL PORTIONS

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EXISTING PLAN (REM)

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JOB NO. DTE 2025-12T

SHEET 32

JEFFERSON AVE. BRIDGE

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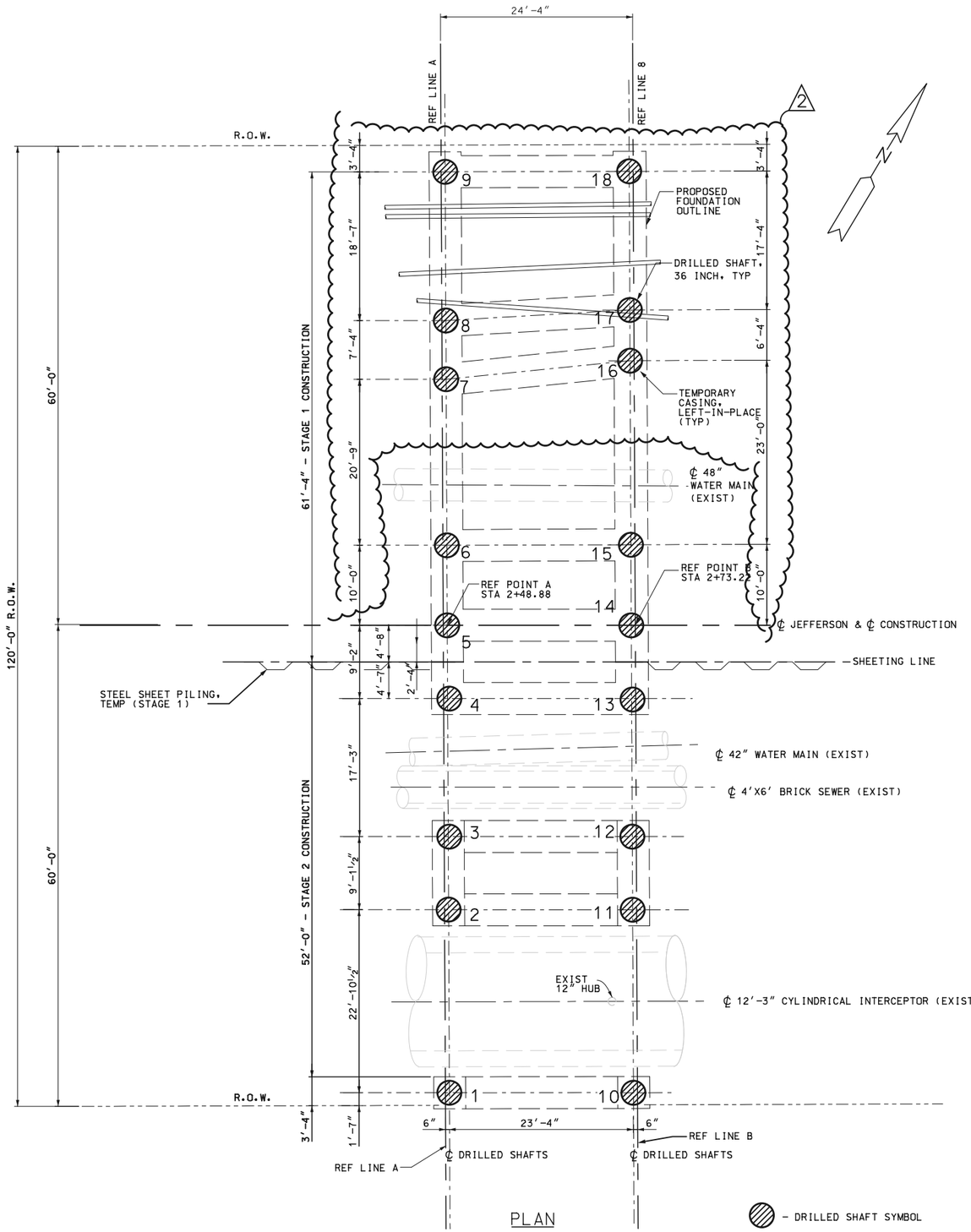
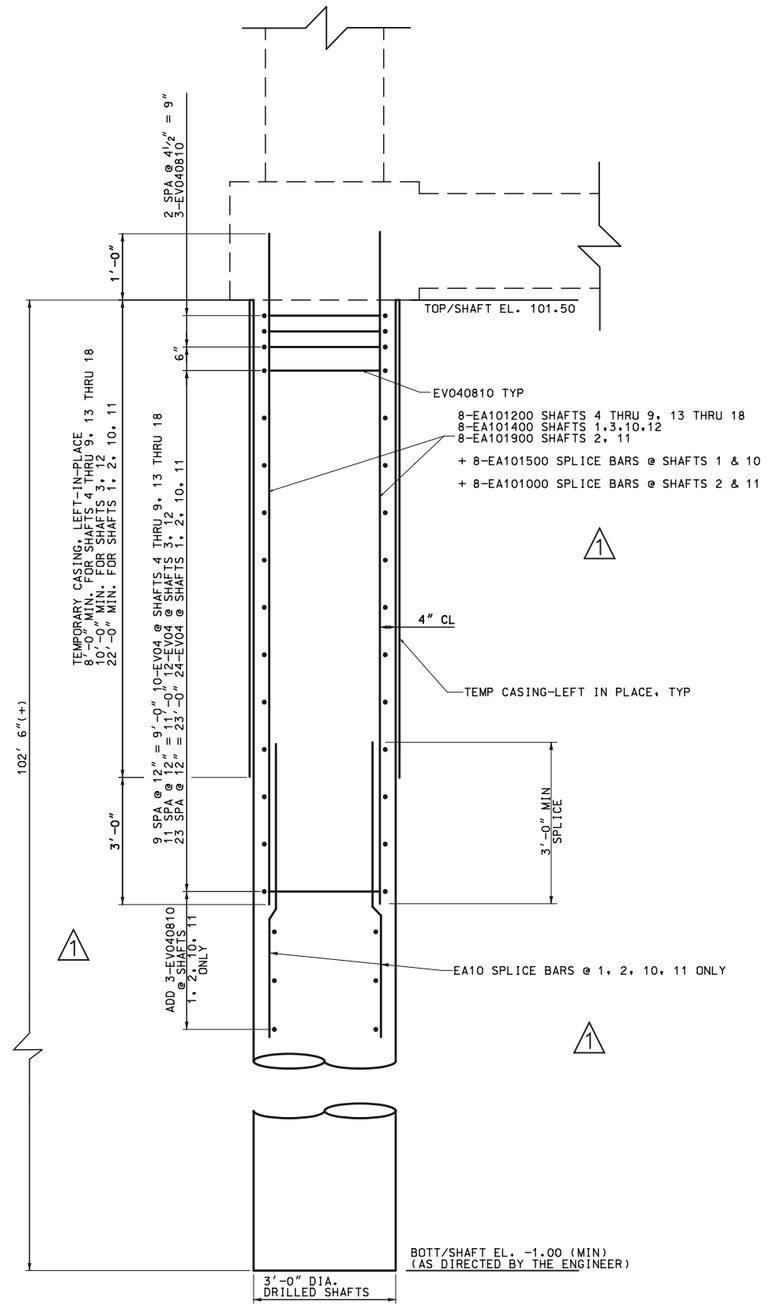


PLAN

– DRILLED SHAFT SYMBOL



SHAFT REINFORCEMENT DETAIL

MISCELLANEOUS QUANTITIES

1	LS	MONITORING VIBRATIONS (SN 12344)
1845	FT	DRILLED SHAFT, 36 INCH
1	LS	DRILLED SHAFT EQUIPMENT, FURNISHED (SN 12344)
204	FT	TEMP CASING-LEFT IN PLACE
10000	DLR	OBSTRUCTION REMOVAL

REV#	DATE	DESCRIPTION	BY
1	3-27-2015	REVISED BRIDGE LOCATION	RRB
2	8-11-2015	REVISED SHAFT LOCATIONS	RRB

NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED:

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FOUNDATION PLAN

ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-12T

SHEET 33

JEFFERSON AVE. BRIDGE

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PROJECT MANAGER: - FIELD BOOK INFORMATION: -
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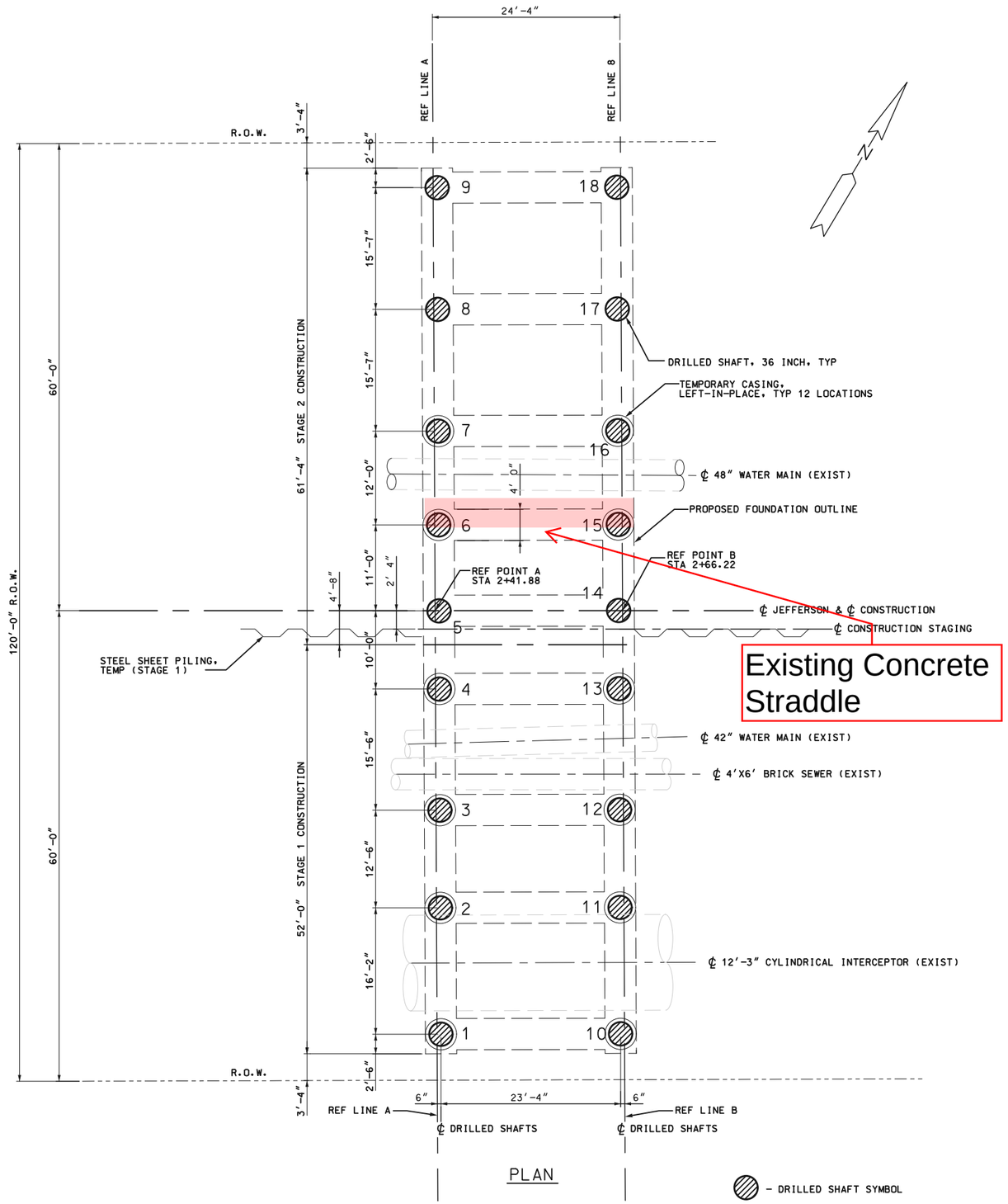
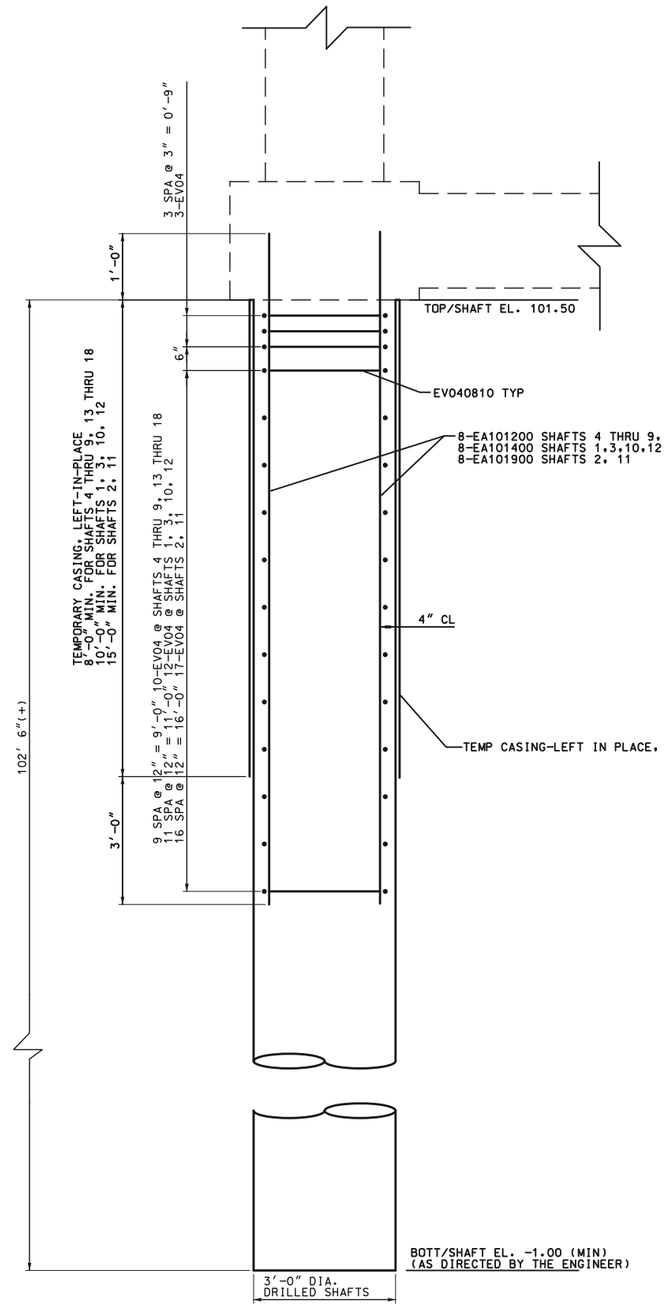


PLAN



SHAFT REINFORCEMENT DETAIL

MISCELLANEOUS QUANTITIES

1	LS	MONITORING VIBRATIONS (SN 12344)
1845	FT	DRILLED SHAFT, 36 INCH
1	LS	DRILLED SHAFT EQUIPMENT, FURNISHED (SN 12344)
118	FT	TEMP CASING-LEFT IN PLACE
10000	DLR	OBSTRUCTION REMOVAL

REV#	DATE	DESCRIPTION	BY

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SHEET 33

JEFFERSON AVE. BRIDGE

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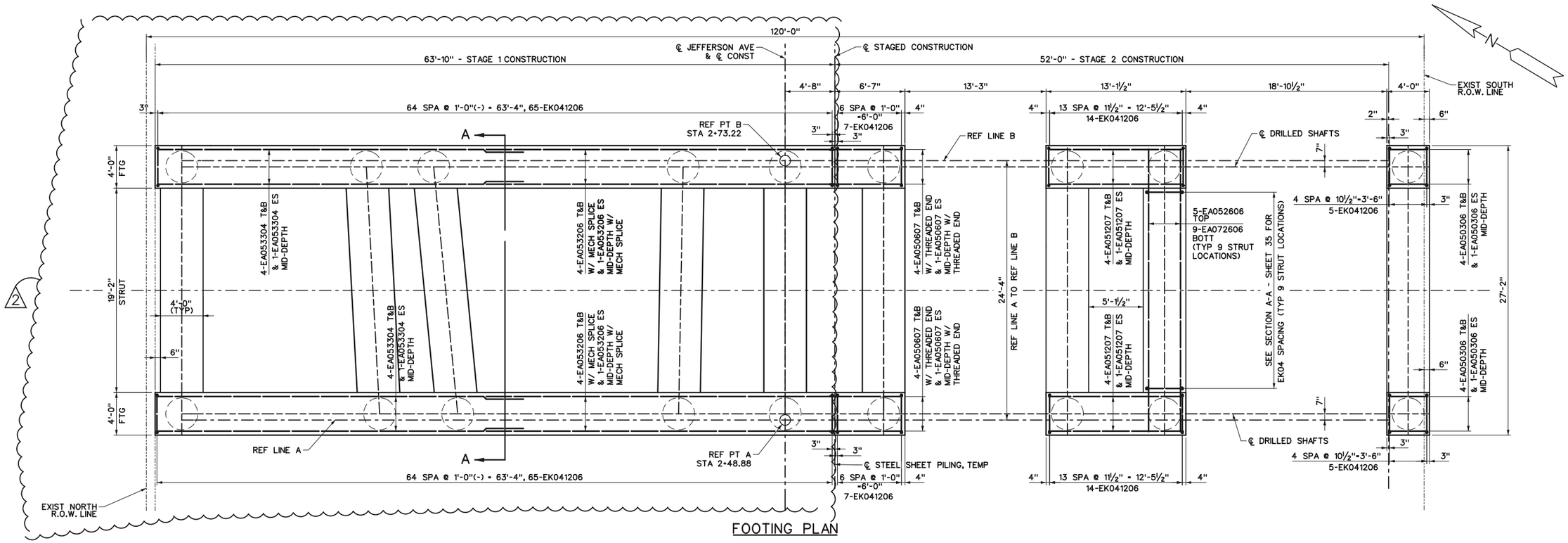
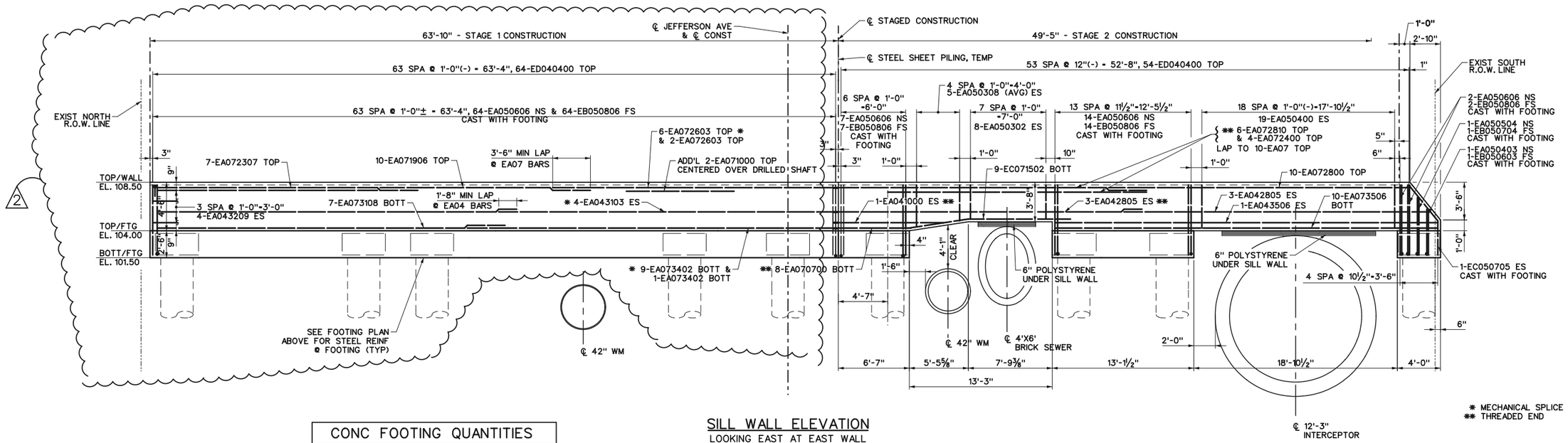
c:\pw_work\rbreen\d0401191\CSP-PLTS-ShaftLayoutPlan.dgn





SILL WALL ELEVATION
LOOKING EAST AT EAST WALL
WEST WALL SIMILAR

MISCELLANEOUS QUANTITIES		
208	CYD	SUBSTRUCTURE, CONC
208	CYD	CONC, LOW TEMPERATURE PROTECTION
64	EA	REINFORCEMENT, MECHANICAL SPLICE

CONC FOOTING QUANTITIES		
SUBSTRUCTURE CONC		
LOCATION	QUANTITY	UNIT
ABUTMENT A	78	CYD
ABUTMENT B	78	CYD
STRUTS	52	CYD

REV#	DATE	DESCRIPTION	BY
1	3-27-2015	REVISED BRIDGE LOCATION	RRB
2	8-11-2015	REVISED SHAFT LOCATIONS	RRB

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SHEET 34A

JEFFERSON AVE. BRIDGE

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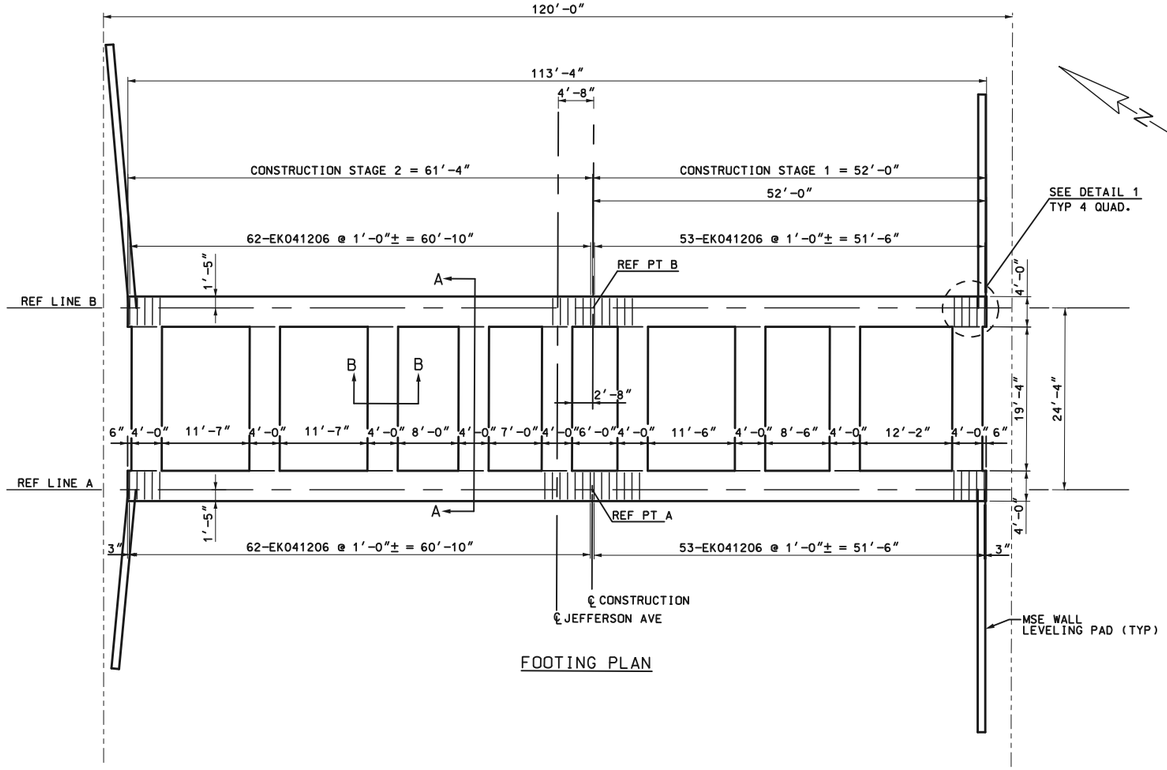
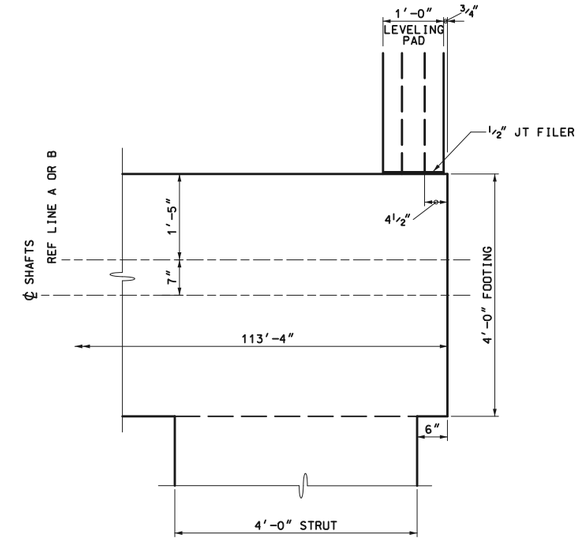
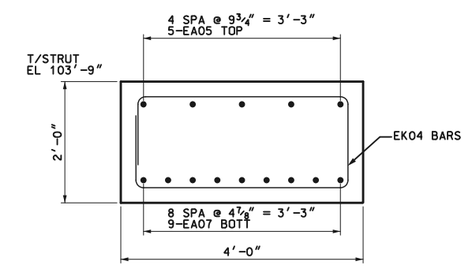
PLOTTED 8/17/2015 1:49:13 PM BY aspence



FOOTING PLAN



DETAIL 1



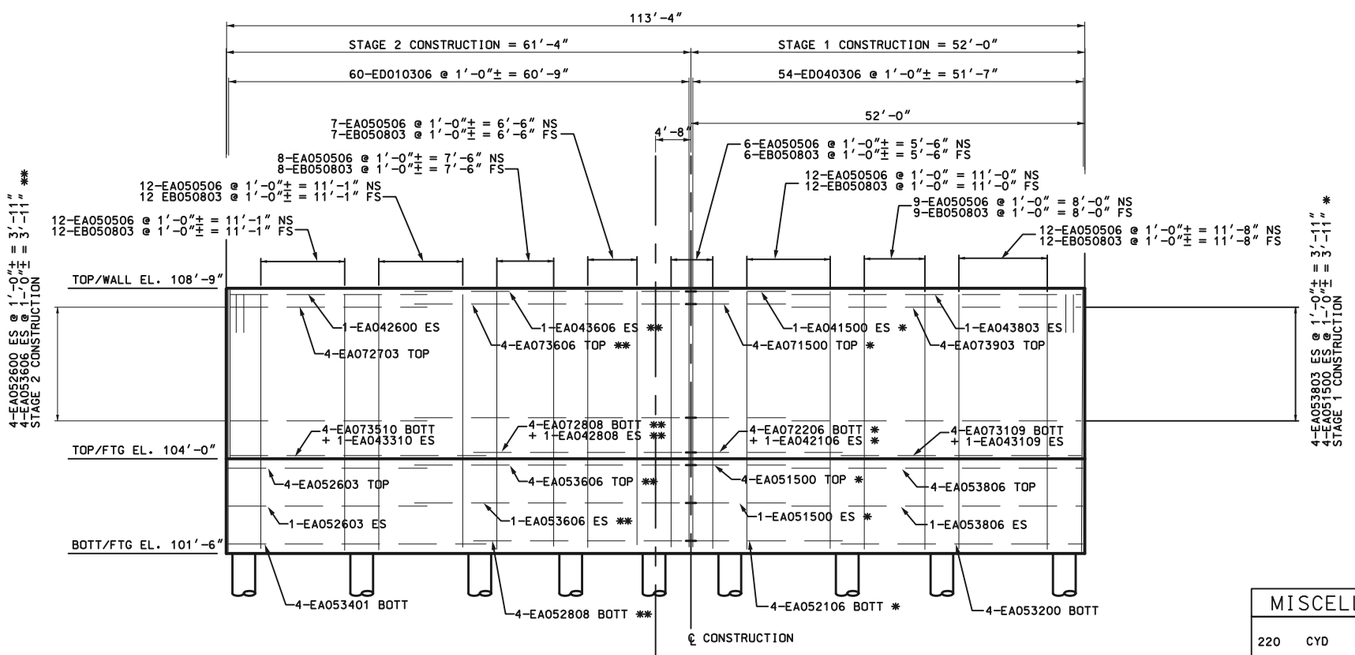
SECTION B-B

NS DENOTES NEAR SIDE

FS DENOTES FAR SIDE

ES DENOTES EACH SIDE

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



* MECHANICAL SPLICE
** THREADED

WALL ELEVATION

LOOKING EAST AT EAST ABUT
WEST ABUT SIMILAR

NOTE: STRUTS NOT SHOWN IN ELEVATION FOR CLARITY.

MISCELLANEOUS QUANTITIES		
220	CYD	SUBSTRUCTURE, CONC
220	CYD	CONC, LOW TEMPERATURE PROJECTION
60	EA	REINFORCEMENT, MECHANICAL SPLICE

CONC FOOTING QUANTITIES		
SUBSTRUCTURE CONC		
LOCATION	QUANTITY	UNIT
ABUTMENT A	83	CYD
ABUTMENT B	83	CYD
STRUTS	54	CYD

REV*	DATE	DESCRIPTION	BY

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SHEET 34

JEFFERSON AVE. BRIDGE

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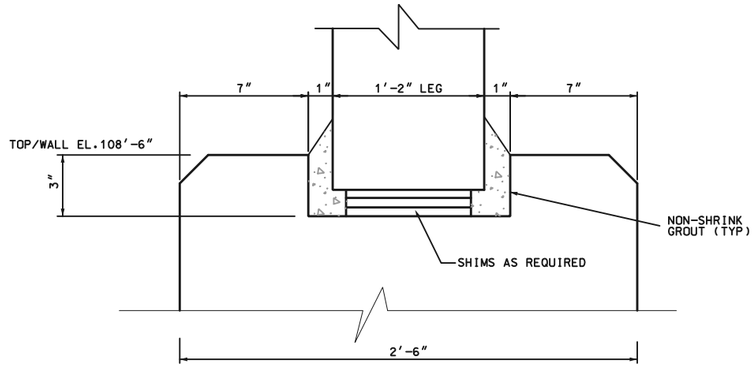
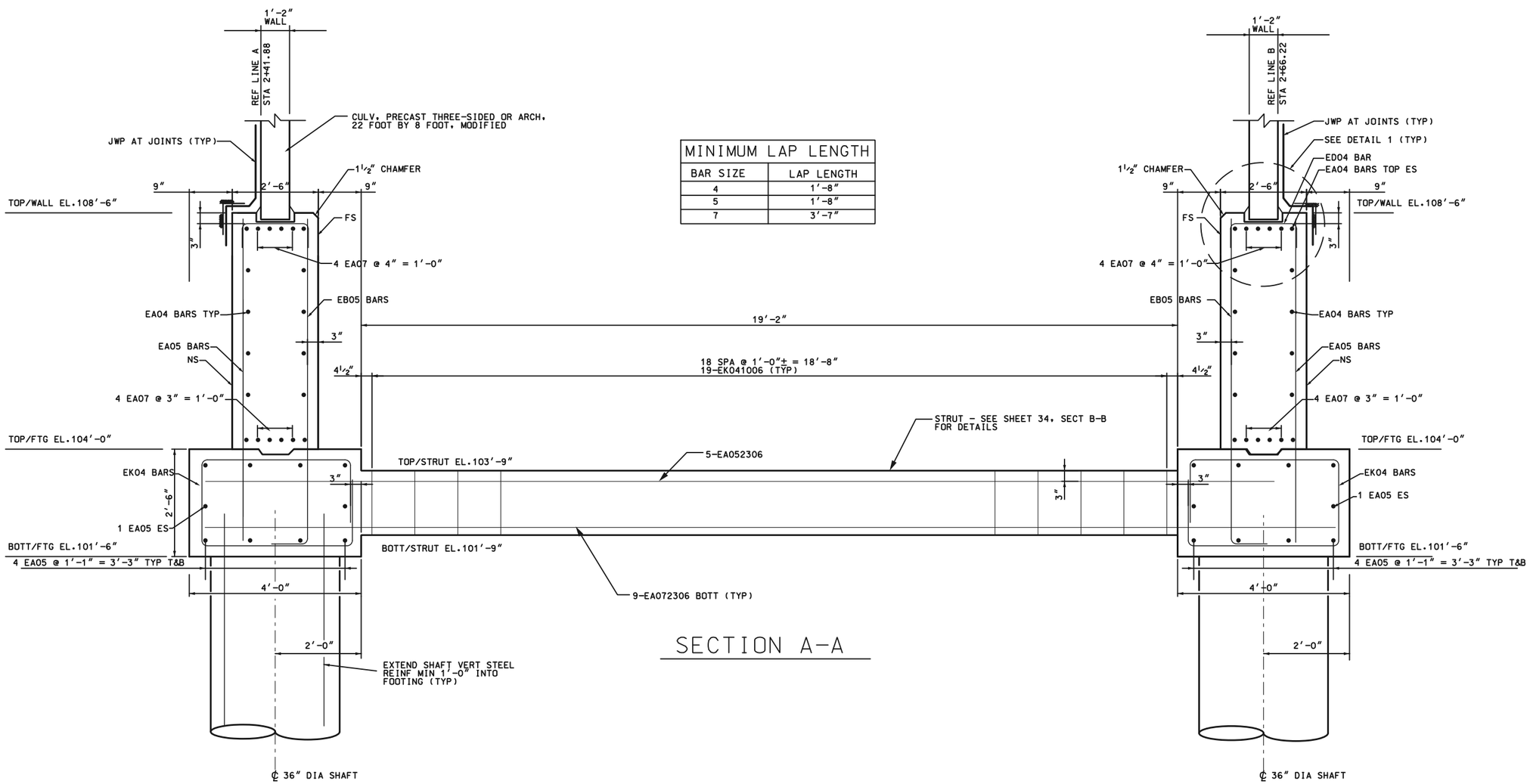


DETAIL 1

MINIMUM LAP LENGTH	
BAR SIZE	LAP LENGTH
4	1'-8"
5	1'-8"
7	3'-7"



SECTION A-A

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SHEET 35

JEFFERSON AVE. BRIDGE

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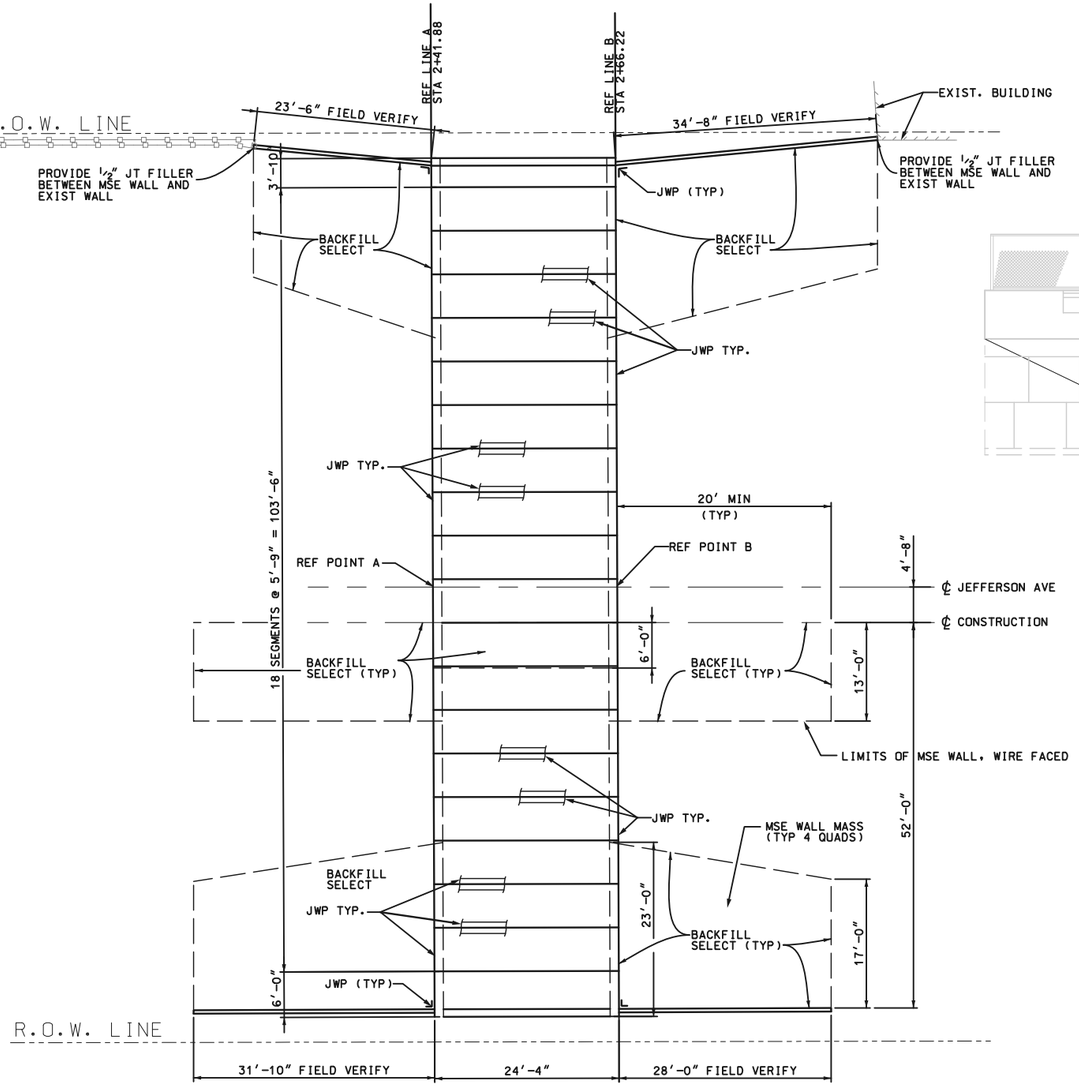
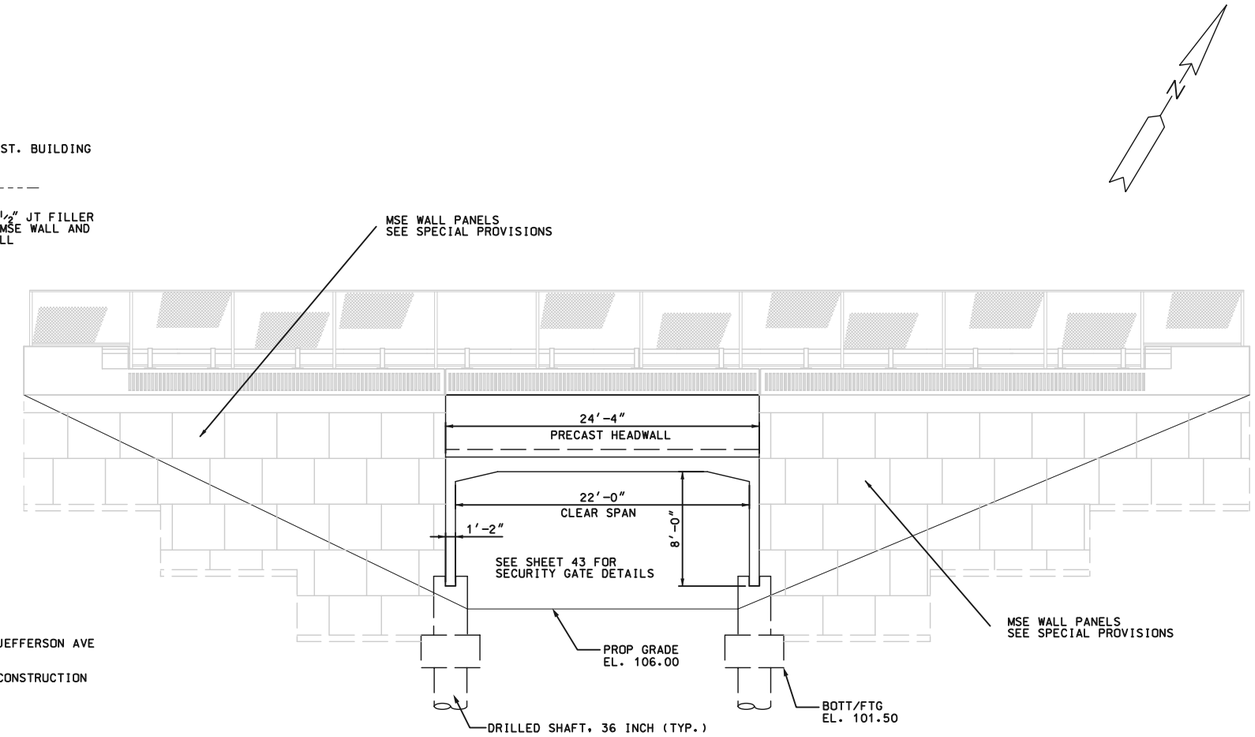


PRECAST ARCH LAYOUT



TYPICAL ELEVATION

NOTES:

JWP DENOTES JOINT WATERPROOFING

CONCRETE SURFACE COATING SHALL BE APPLIED TO THE ENTIRE EXPOSED SURFACES OF THE C.I.P. CONCRETE SILL WALLS.

AT NO TIME PRIOR TO ERECTING THE CULVERT, SHALL THE HEIGHT OF THE BACKFILL ON THE BACKSIDE OF THE ABUTMENTS BE HIGHER THAN THE BACKFILL ON THE FRONT SIDE.

FOR NAMEPLATE LOCATION, SEE GENERAL PLAN OF STRUCTURE SHEET.

ALL EXPOSED FACES OF MSE WALL PANELS AND PRECAST HEADWALL SHALL RECEIVE CONC SURFACE COATING.

MISCELLANEOUS QUANTITIES		
114	FT	CULV, PRECAST THREE-SIDED OR ARCH, 22 FOOT BY 8 FOOT, MODIFIED
1675	SFT	JOINT WATERPROOFING
315	SYD	CONC SURFACE COATING

WORK THIS SHEET WITH SHEET 37

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PRECAST ARCH PLAN

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SHEET 36

JEFFERSON AVE. BRIDGE

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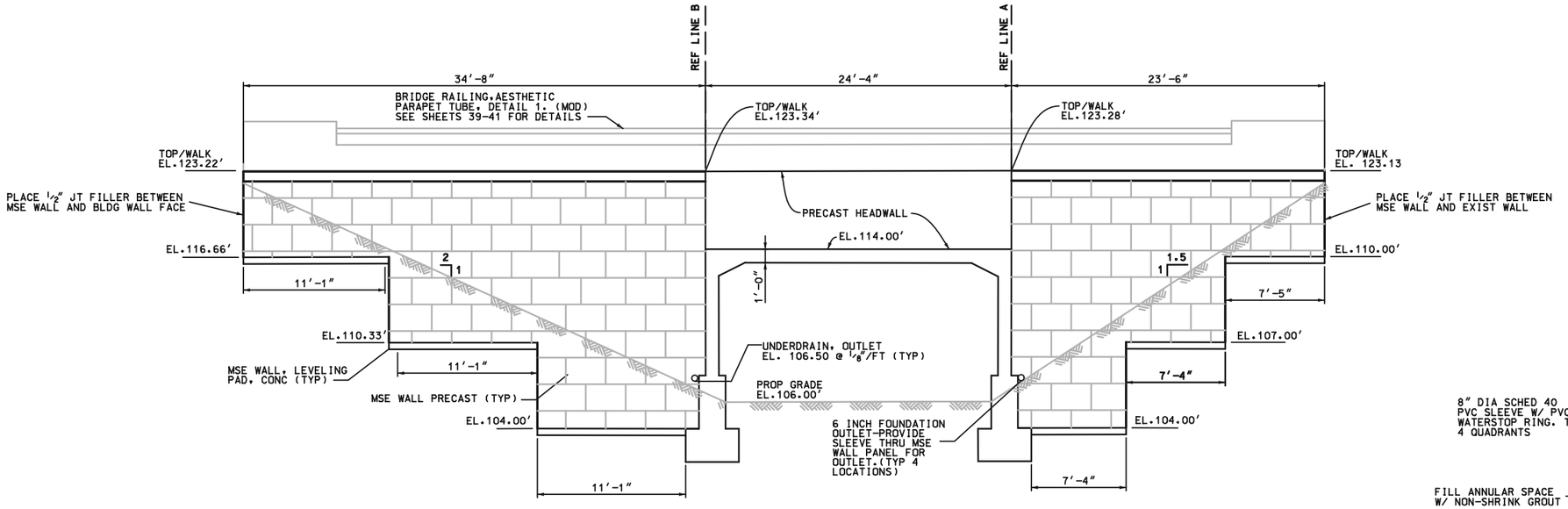
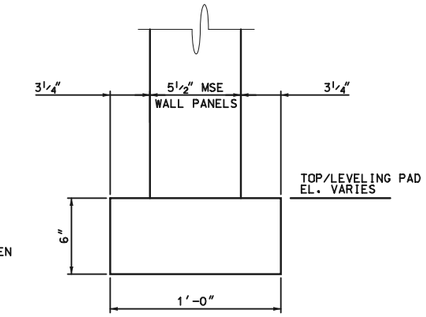
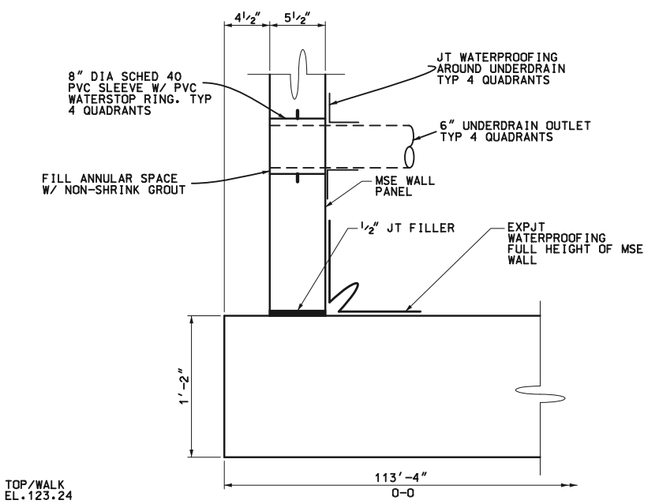


NORTH MSE WALL ELEVATION

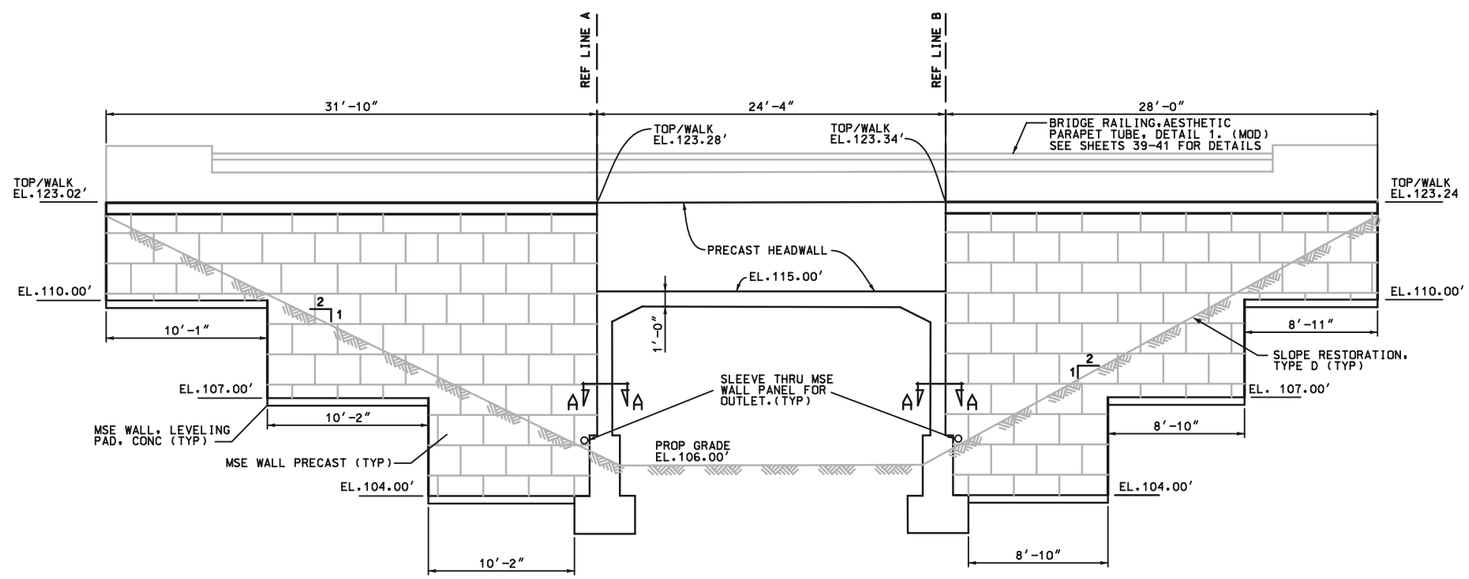
MEASURED LENGTH OF WALL SHOWN



CONCRETE LEVELING PAD



SECTION A-A



SOUTH MSE WALL ELEVATION

MEASURED LENGTH OF WALL SHOWN

NOTES:

MSE DENOTES MECHANICALLY STABILIZED EARTH.

THE FACTORED BEARING RESISTANCE OF THE SUBGRADE IS 13.00 PSF AT THE WILNGWALLS.

USE CAST IN PLACE (CIP) MSE WALL COPING AS DETAILED.

COORDINATE PLACEMENT OF SOIL REINFORCEMENT WITH DRAINAGE STRUCTURES AND PIPES AND OTHER OBSTRUCTIONS.

CUTTING OF THE MSE SOIL REINFORCEMENT IS PROHIBITED.

SEE SPECIAL PROVISION FOR "MECHANICALLY STABILIZED EARTH RETAINING WALL SYSTEM".

SLEEVES FOR OUTLET SHALL BE INCLUDED IN PAY ITEM "MSE WALL, PRECAST, FURN".

ALL EXPOSED FACES OF MSE WALL PANELS, PRECAST HEADWALL AND BRIDGE RAILING AESTHETIC PARAPET TUBE SHALL RECEIVE CONCRETE SURFACE COATING.

MISCELLANEOUS QUANTITIES

119	FT	MSE WALL, LEVELING PAD, CONC
1810	SFT	MSE WALL, PRECAST, FURN
1810	SFT	MSE WALL, PRECAST, INSTALL
1490	CYD	BACKFILL SELECT
400	SYD	LINER, PVC, 30 MIL
114	SFT	JOINT WATER PROOFING

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MSE WALL ELEVATIONS

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SHEET 37

JEFFERSON AVE. BRIDGE

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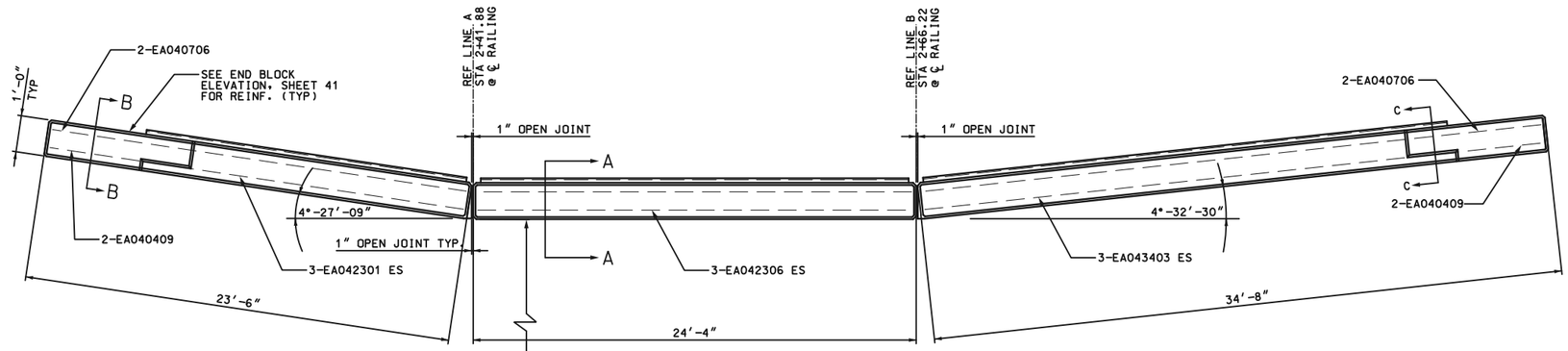
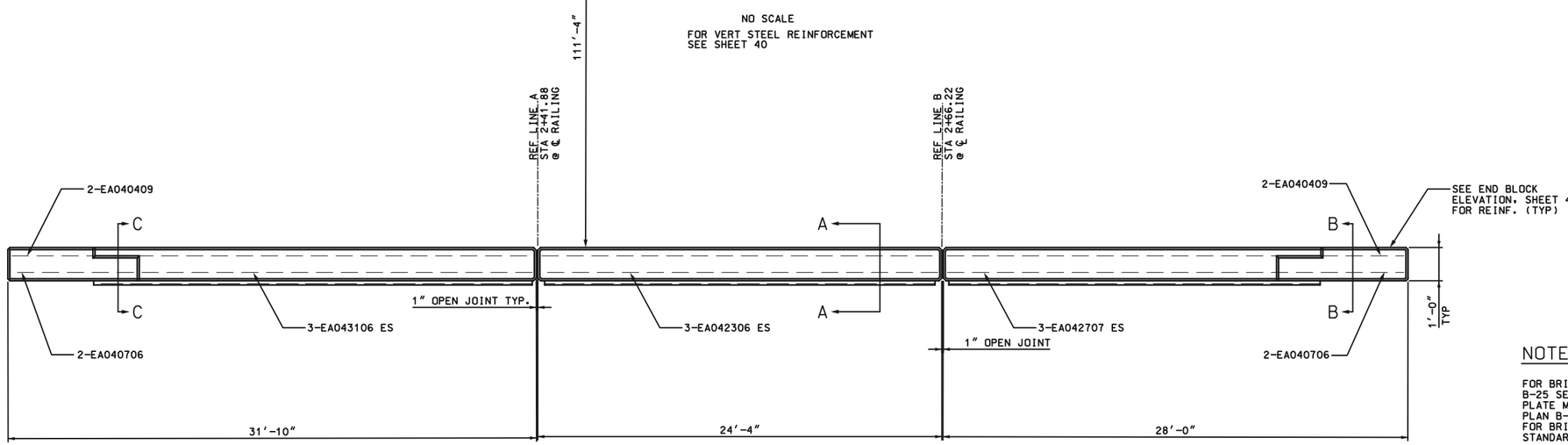


NORTH RAILING PLAN VIEW

NO SCALE

FOR VERT STEEL REINFORCEMENT
SEE SHEET 40



SOUTH RAILING PLAN VIEW

NO SCALE

FOR VERT STEEL REINFORCEMENT
SEE SHEET 39

NOTES:

FOR BRIDGE RAILING DETAILS SEE STANDARD PLAN B-25 SERIES, FOR DETAILS OF NAMEPLATE, NAME PLATE MOUNTING, MOLDING AND BEVELS, SEE STANDARD PLAN B-103 SERIES, AND FOR DETAILS OF FENCING FOR BRIDGE RAILING AESTHETIC PARAPET TUBE SEE STANDARD PLAN B-41 SERIES.

FILL ALL 1" OPEN JOINTS WITH 1" JOINT FILLER TO ½" FROM THE BEVELED EDGES AND SEAL THE REMAINING ½" WITH A SILICONE RUBBER SEALANT.

ALL MATERIAL FOR CHAIN LINK FENCE SHALL BE POLYMER COATED PER SECTION 907 OF THE MDOT STANDARD SPECIFICATIONS. COLOR SHALL BE FEDERAL STANDARD 595, COLOR NUMBER FS17038, GLOSS BLACK. THIS SHALL BE INCLUDED IN THE RESPECTIVE PAY ITEMS FOR CHAIN LINK FENCE.

SINGLE TUBE RAIL, POSTS AND APPURTENANCES SHALL BE GALVANIZED AFTER FABRICATION PER SECTION 716 OF THE MDOT STANDARD SPECIFICATIONS. COATING SHALL BE DONE IN ACCORDANCE WITH SECTION 715 OF THE STANDARD SPECIFICATIONS. PROVIDE A TIE COAT, INTERMEDIATE AND TOP COAT. FINISH COLOR SHALL BE FEDERAL STANDARD 595, COLOR NUMBER FS17038, GLOSS BLACK. THIS SHALL BE INCLUDED IN THE PAY ITEM "BRIDGE RAILING, AESTHETIC PARAPET TUBE, DETAIL 1".

FENCE FABRIC, POSTS, RAILS AND OTHER RELATED APPURTENANCES SHALL BE PVC FINISH COATED. COLOR SHALL BE BLACK.

A RUBBED SURFACE FINISH ON THE VERTICAL AND TOP CONCRETE SURFACES OF THE PARAPET RAILING IS REQUIRED ON THIS STRUCTURE.

WORK THIS SHEET WITH SHEETS 39-42

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SHEET 38

JEFFERSON AVE. BRIDGE

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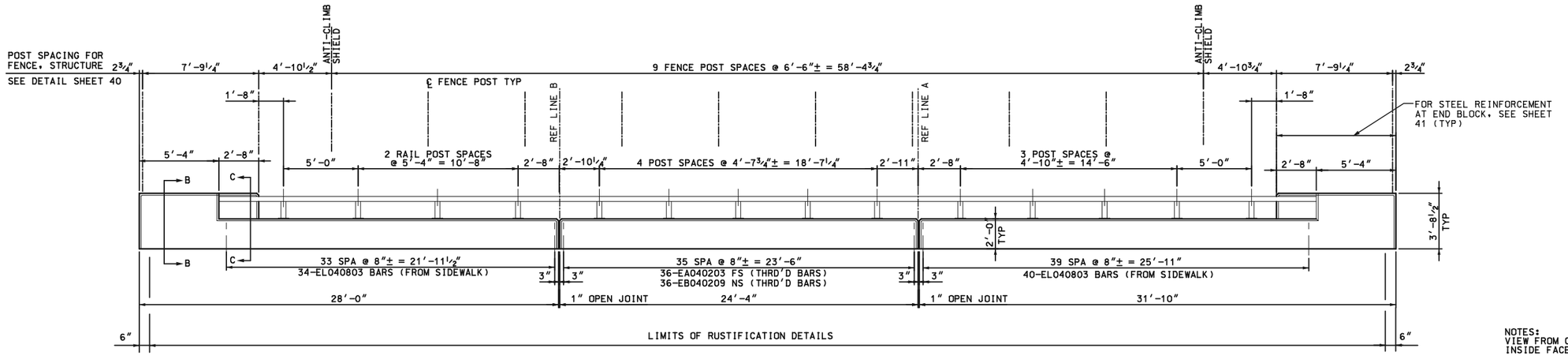


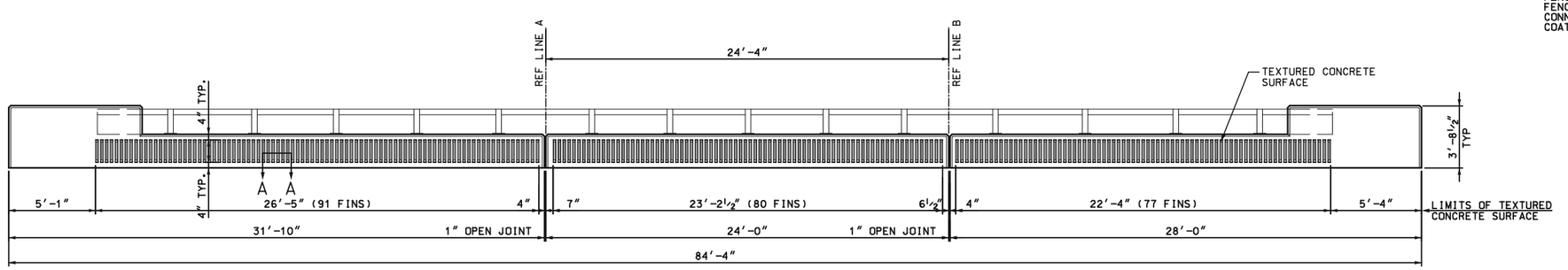
SOUTH INTERIOR RAILING ELEVATION

NO SCALE

NOTES:
VIEW FROM CENTERLINE OF ROAD LOOKING AT INSIDE FACE OF RAILING.

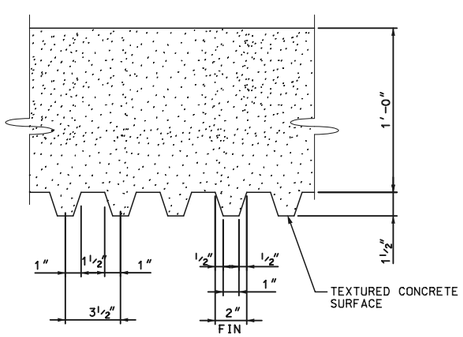
RUSTIFICATION NOT SHOWN FOR CLARITY. SEE STANDARD PLAN B-25 SERIES FOR DETAILS. FOR FENCE DETAILS SEE BELOW.

FENCE FABRIC SHALL BE BLACK PVC COATED. FENCE POSTS, RAILS, TRUSS RODS AND CONNECTOR PLATES SHALL BE BLACK POWDER COATED. PROVIDE FIELD TOUCH UP TO MATCH.



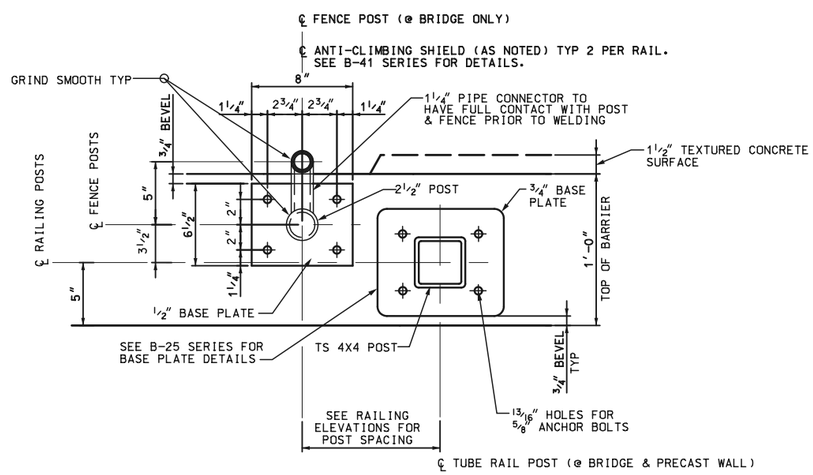
SOUTH EXTERIOR RAILING ELEVATION

NO SCALE



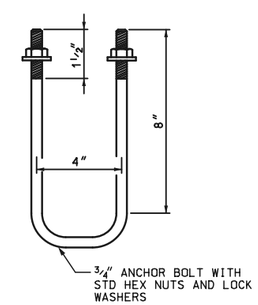
SECTION A-A

BRIDGE RAILING, AESTHETIC PARAPET TUBE, DETAIL 1 (MOD)



POST BASE PLATE DETAILS

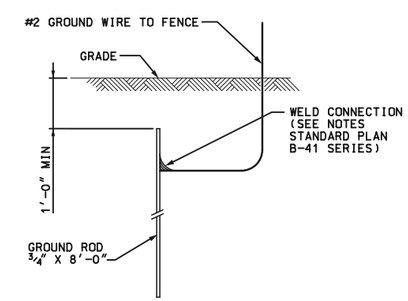
NOTE: FENCE POST W/ ANTI-CLIMB SHIELD CONNECTION SHOWN. OTHER FENCE POSTS SIMILAR W/O ANTI-CLIMB SHIELD



FENCE POST ANCHOR BOLT DETAIL

NOTES

#2 GROUND WIRE TO FENCE. GROUNDING CABLES AND TOPS OF GROUNDING RODS SHALL BE PLACED 1′-0″ MINIMUM BELOW FINISHED GRADE.



GROUNDING DETAIL

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SHEET 39

JEFFERSON AVE. BRIDGE

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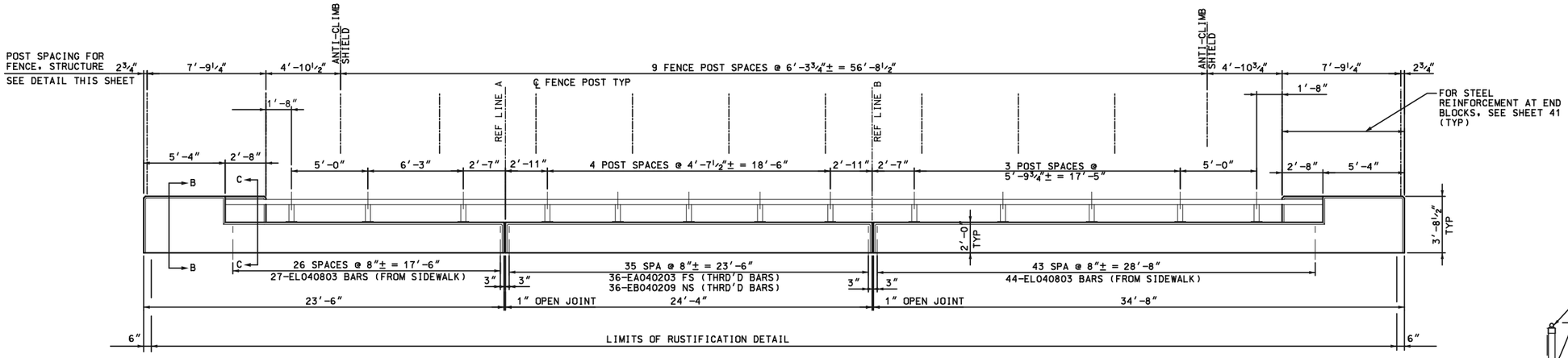


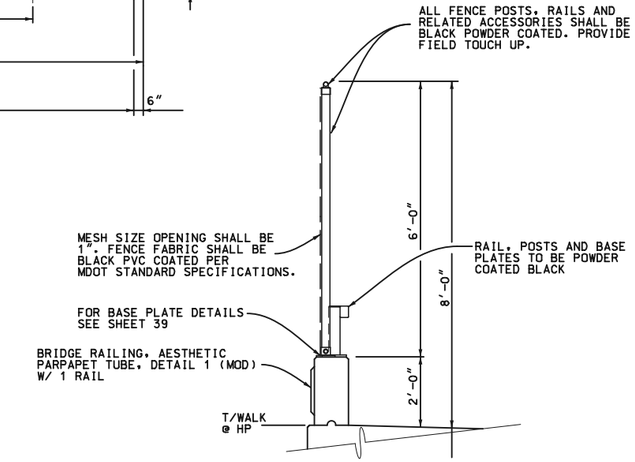
NORTH INTERIOR RAILING ELEVATION

NO SCALE

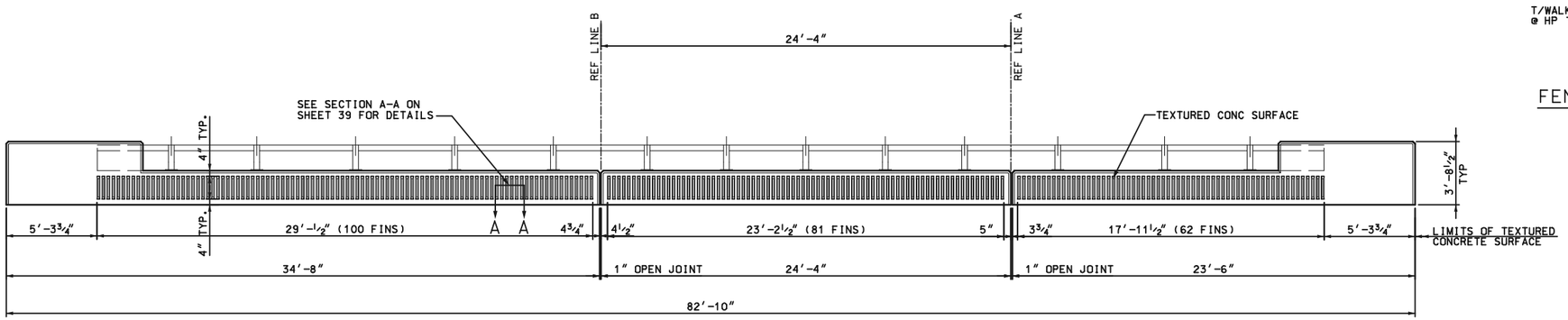
NOTES:
VIEW FROM CENTERLINE OF ROAD LOOKING AT INSIDE FACE OF RAILING.

RUSTIFICATION NOT SHOWN FOR CLARITY. SEE STANDARD PLAN B-25 SERIES FOR DETAILS. FOR FENCE DETAILS SEE SHEET 39.

FENCE FABRIC SHALL BE BLACK PVC COATED. FENCE POSTS, RAILS, TRUSS RODS AND CONNECTOR PLATES SHALL BE BLACK POWDER COATED. PROVIDE FIELD TOUCH UP TO MATCH.



FENCE, STRUCTURE DETAIL



NORTH EXTERIOR RAILING ELEVATION

NO SCALE

MISCELLANEOUS QUANTITIES

168	FT	BRIDGE RAILING, AESTHETIC PARAPET TUBE, DETAIL 1 (MOD)
1344	SFT	FENCE, STRUCTURE
33	SYD	TEXTURING CONC
1	EA	ELEC GROUNDING SYSTEM
1338	SFT	SIDEWALK, CONC, 6 INCH, MODIFIED
488	SFT	SIDEWALK, CONC, 4 INCH

WORK THIS SHEET WITH SHEETS 38, 39, 41, 42

REV#	DATE	DESCRIPTION	BY

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500 Griswold, Suite 2500
Detroit, MI 48226
(313) 962-7800
FAX 313.961.0898
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DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION
JEFFERSON AVE. OVER CONRAIL
SUPERSTRUCTURE DETAILS

ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-12T

SHEET 40

JEFFERSON AVE. BRIDGE

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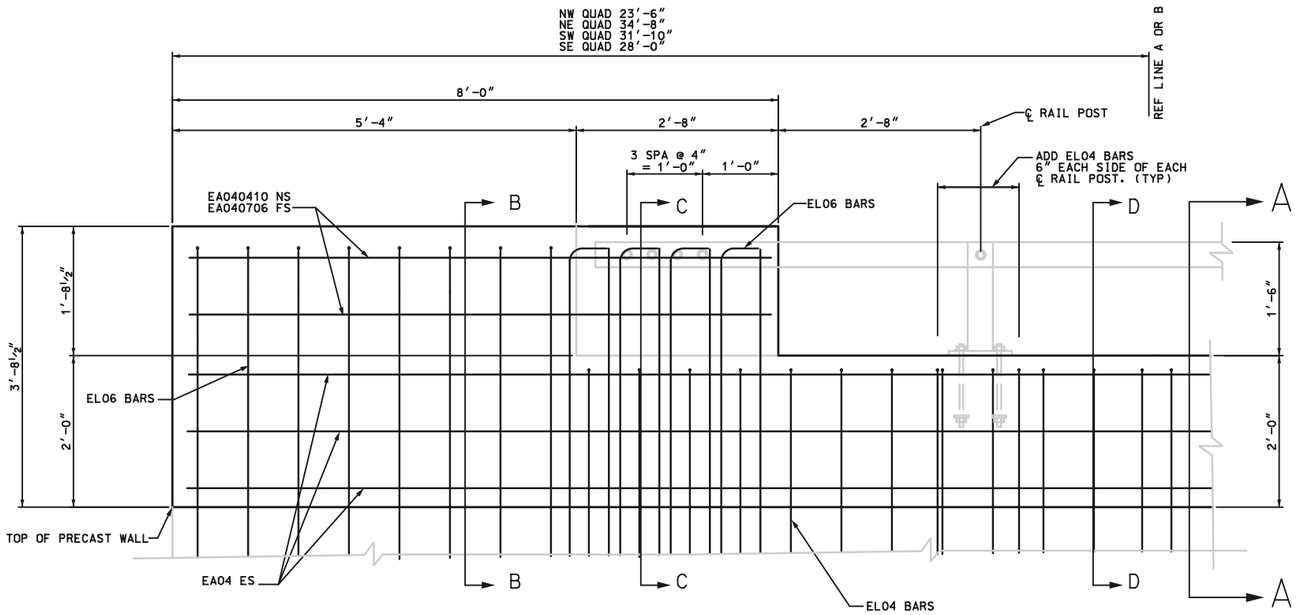
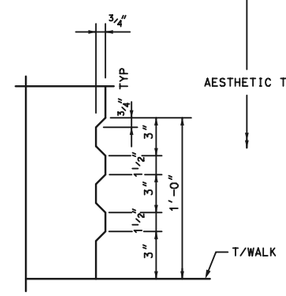
PROJECT MANAGER: - FIELD BOOK INFORMATION: -
c:\pw_work\d0401191\CRP-PLTS-SuperstructureDetailSheetNorth.dgn
PLOTTED 6/12/2014 8:39:11 AM BY mzarzycka

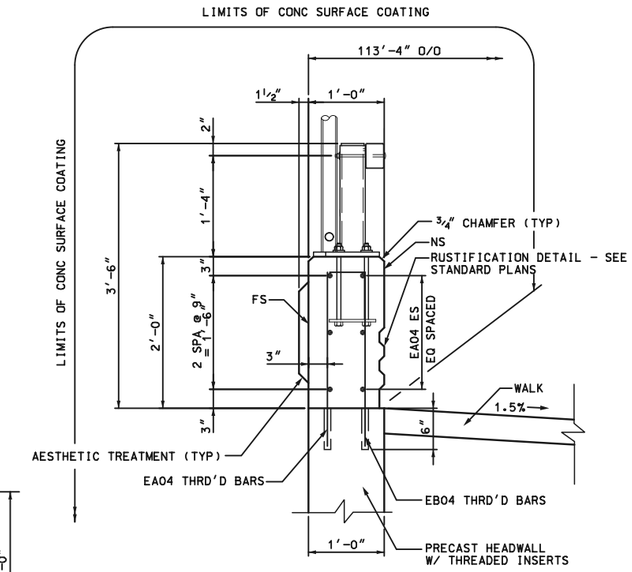


END BLOCK ELEVATION

SEE STANDARD PLAN SERIES B-25 FOR DETAILS OF BRIDGE RAIL.

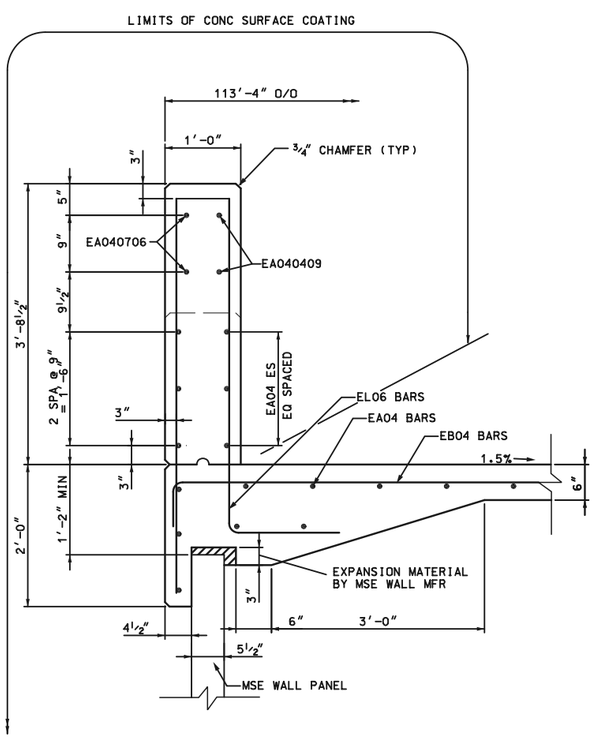


RUSTIFICATION DETAIL



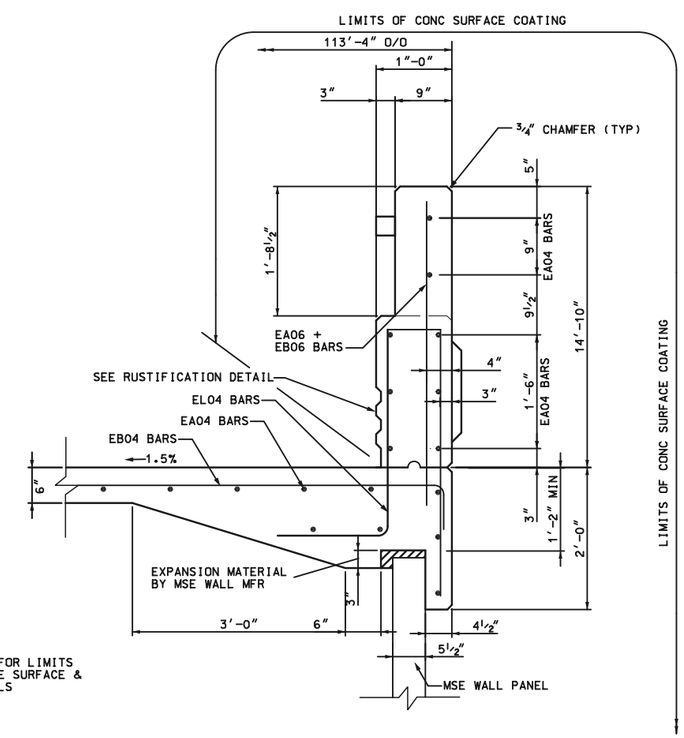
SECTION A-A

(@ HEADWALL)

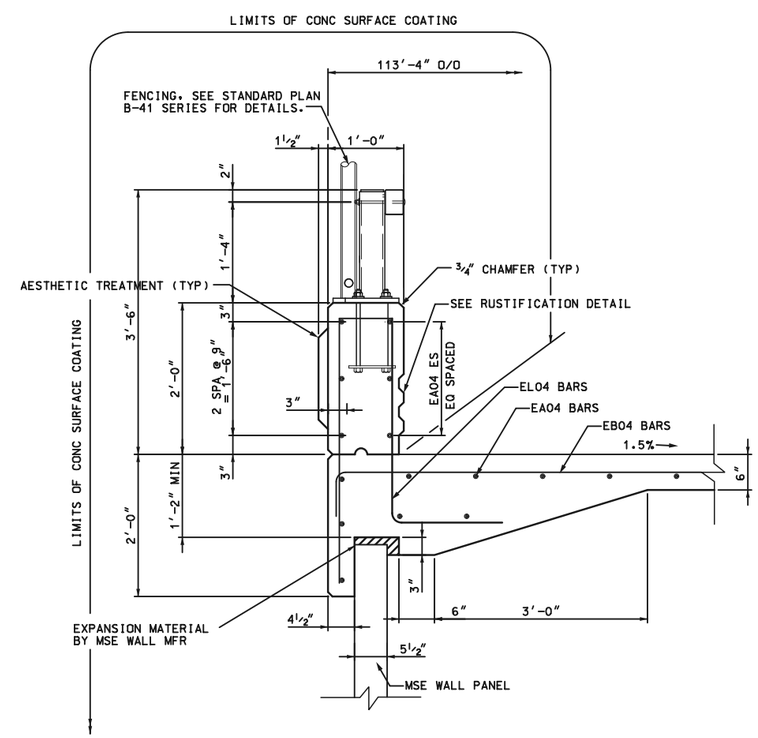


SECTION B-B

NOTE:
SEE SHEETS 39 & 40 FOR LIMITS OF TEXTURED CONCRETE SURFACE & RUSTIFICATION DETAILS



SECTION C-C



SECTION D-D

(@ MSE WALL)

WORK THIS SHEET WITH SHEETS 39, 40, 42

REV#	DATE	DESCRIPTION	BY

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JOB NO. DTE 2025-12T

SHEET 41

JEFFERSON AVE. BRIDGE

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PROJECT MANAGER: - FIELD BOOK INFORMATION: -
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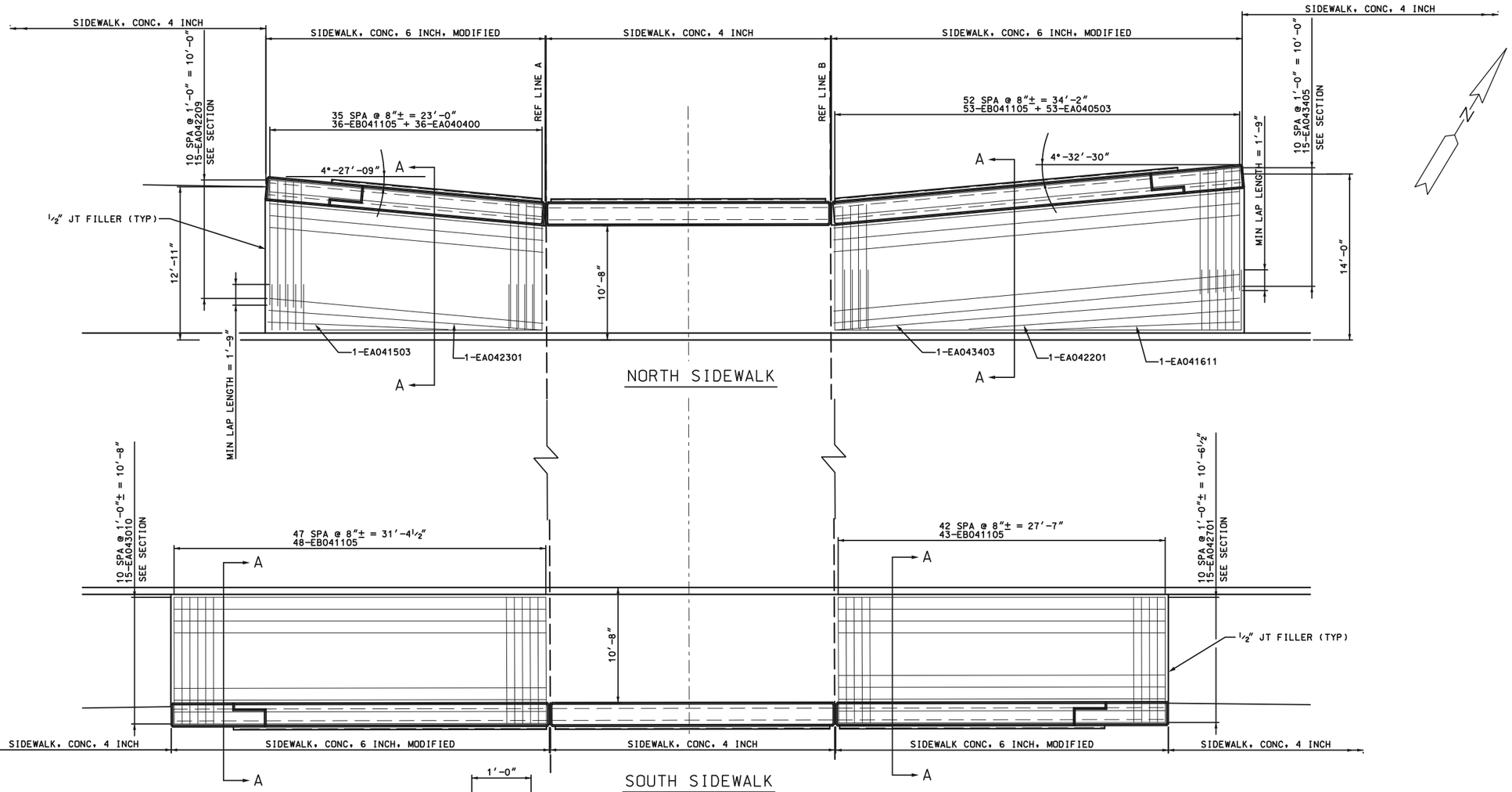
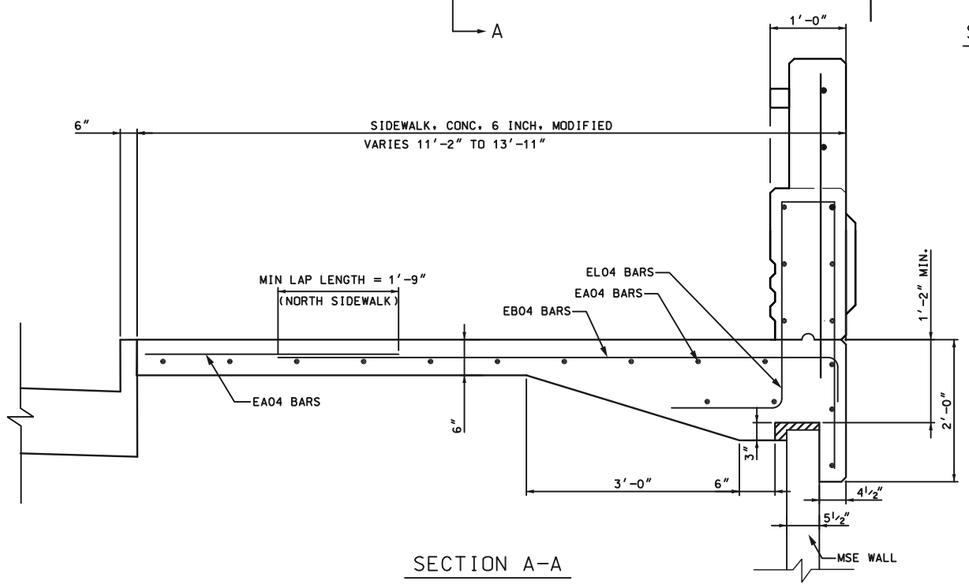
PLOTTED 6/12/2014 8:47:14 AM BY mszarzycka





WORK THIS SHEET WITH SHEETS 38-41

REV#	DATE	DESCRIPTION	BY

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ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-12T

SHEET 42

JEFFERSON AVE. BRIDGE

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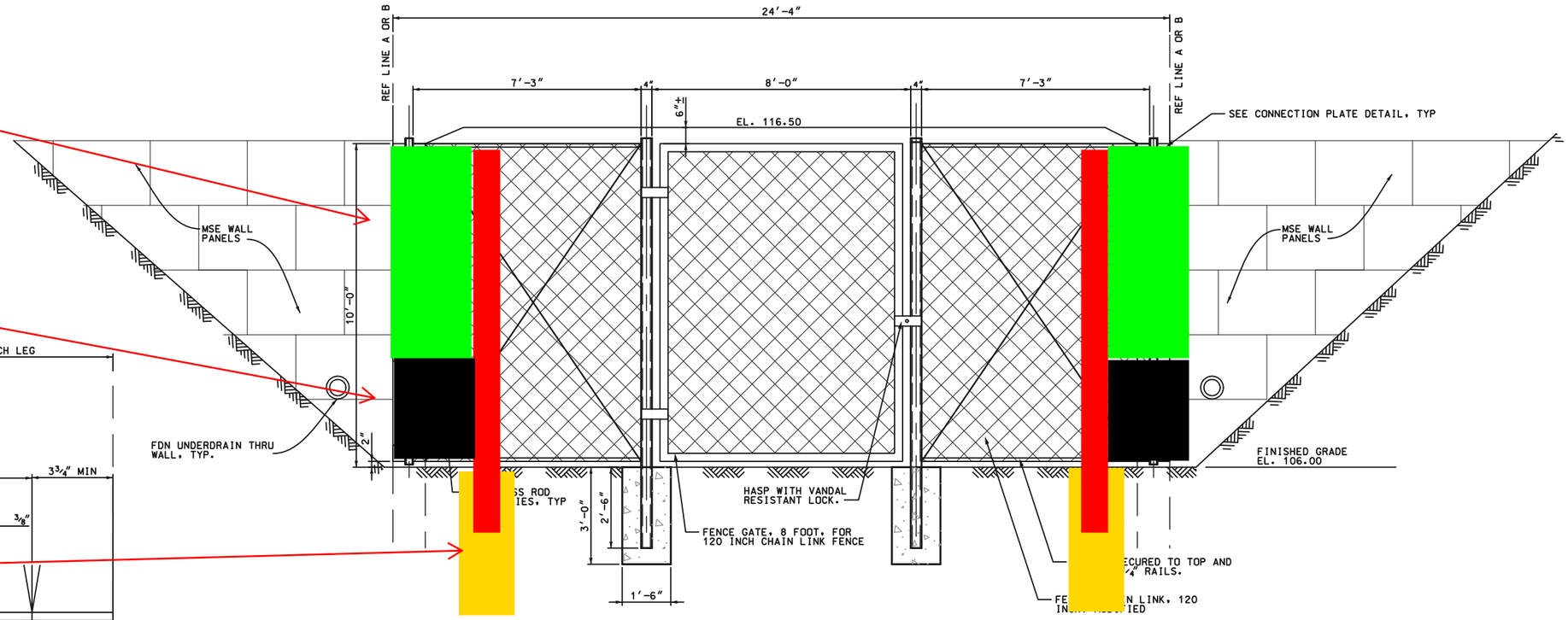
PROJECT MANAGER: - FIELD BOOK INFORMATION: -
c:\pw_work\rbreen\d0401191\CRP-PLTS-SidewalkReinfPlan.dgn
PLOTTED 4/3/2014 1:27:17 PM BY rbreen

fabricated fence panel

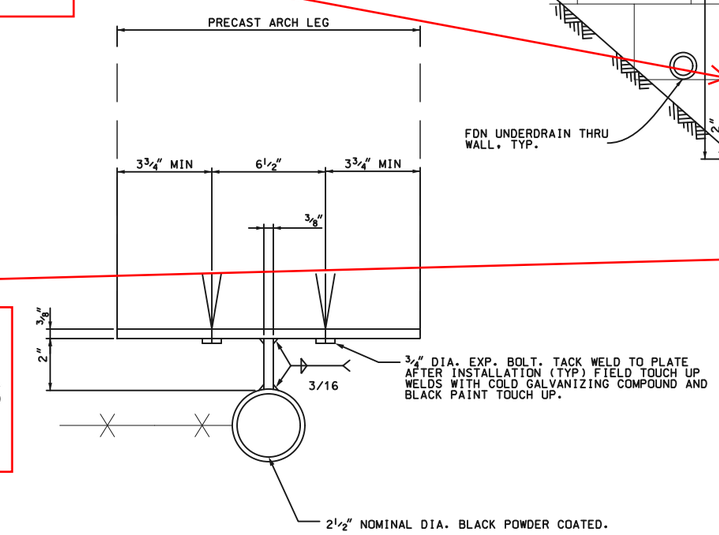
end of sill wall

additional foundations and post



ELEVATION

PARTIAL NORTH ELEVATION
SOUTH ELEVATION SIMILAR



SECTION A-A

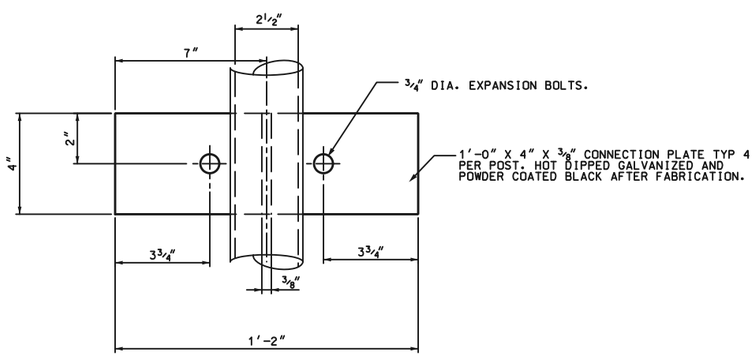
NOTES:

PROVIDE GROUND TO FENCE AS PART OF ELEC GROUNDING SYSTEM FOR BRIDGE (TYP).

VANDAL RESISTANT LOCKS SHALL BE KEYED TO OWNERS SYSTEM.

PAY ITEMS FOR FENCE & GATE SHOWN ON SHEET 28.

FENCE FABRIC SHALL BE BLACK PVC COATED. FENCE POSTS, RAILS, TRUSS RODS AND CONNECTOR PLATES SHALL BE BLACK POWDER COATED. PROVIDE FIELD TOUCH UP TO MATCH.



CONNECTION PLATE DETAIL

REV#	DATE	DESCRIPTION	BY

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WADE TRIM
500 Griswold, Suite 2500
Detroit, MI 48226
313.961.3650
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JEFFERSON AVE. OVER CONRAIL
SECURITY FENCE DETAILS

ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-12T

SHEET 43

JEFFERSON AVE. BRIDGE

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PROJECT MANAGER: - FIELD BOOK INFORMATION: -
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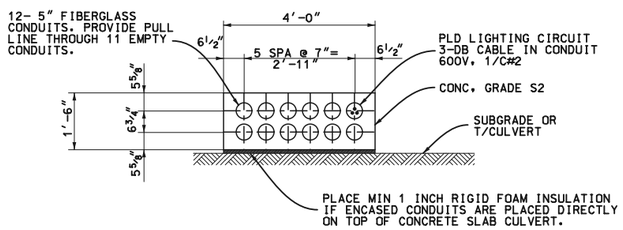
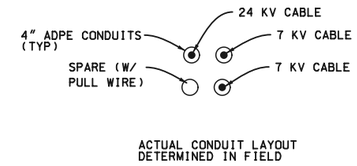




DETAIL – CONDUIT, DIRECTIONAL BORE, 4 INCH

6'x6'x7' manhole placed at 2+29.5, 10.17' LT of Jefferson CL. Should place the manhole 2' LT of the wire face wall and 1' outside the existing abutment wall

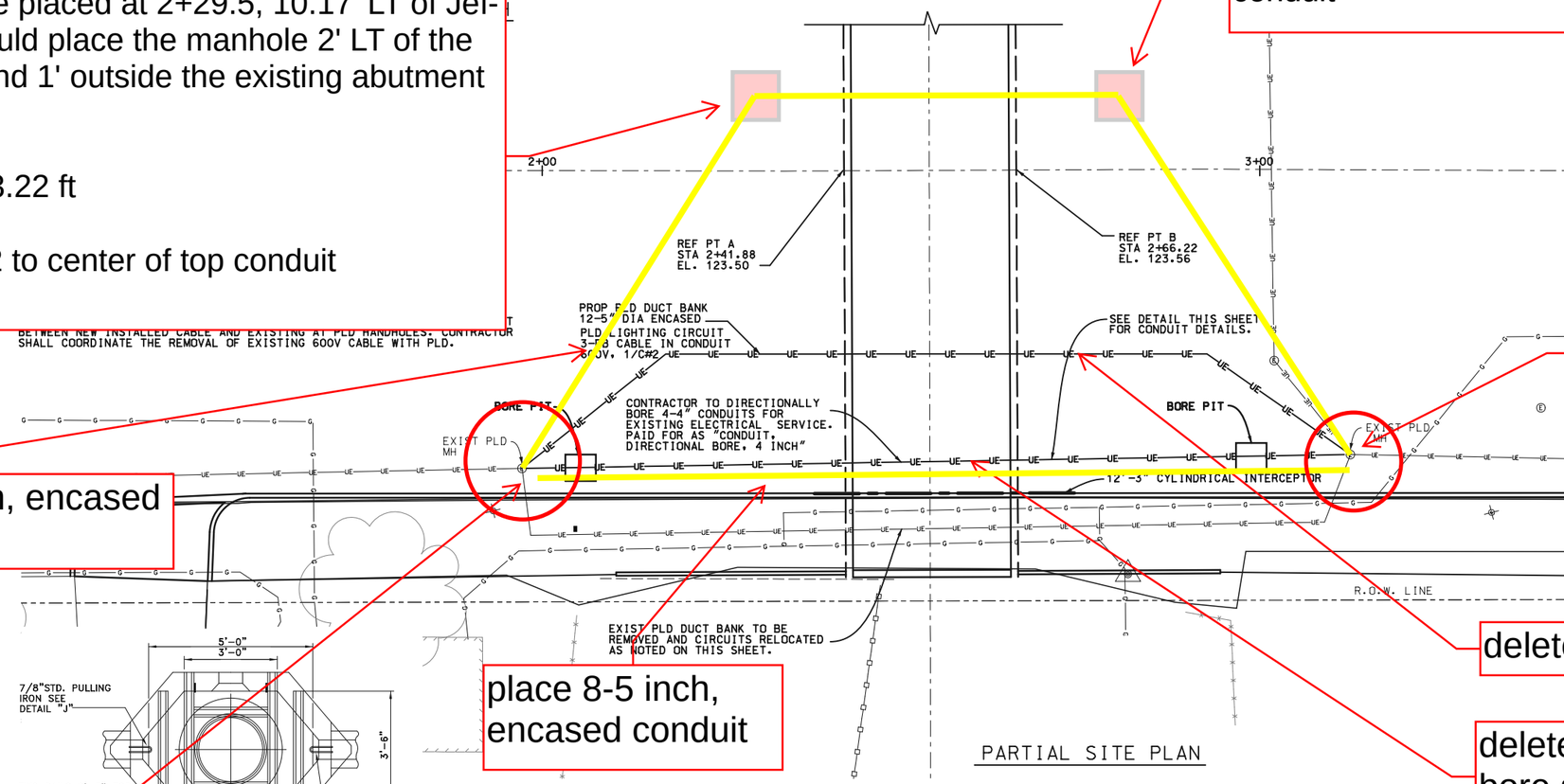
RIM ELEV - 123.22 ft

t/p duct - 119.72 to center of top conduit

6'x6'x7' manhole placed at 2+80.5, 10.17' LT of Jefferson CL

RIM ELEV - 123.32

t/p duct - 119.82 to center of top conduit



PARTIAL SITE PLAN

place 4-5 inch, encased conduits

place 8-5 inch, encased conduit

- lower existing masonry walls 1.56 ft from existing top of masonry

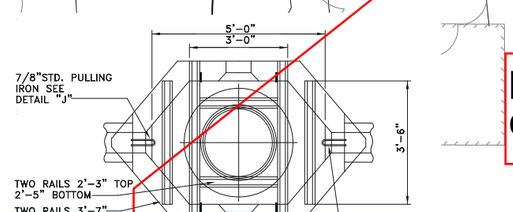
- remove existing debris and clean structure

- repair existing top using existing rails and brick/ mortar

per WO#9

delete proposed conduit

delete proposed bore shot



- Lower masonry walls .6 ft from the top of masonry

- remove existing debris and clean structure

- replace existing top with precast

per WO#9

SEE NOTES #5 & 9

DRAIN ENTRANCE IN HANDHOLE (LOCATE TO FIT JOB)

CONCRETE OR GLAZED CROCK DRAIN TO SEWER ONLY WHERE SPECIFIED

SECTION
TYPE "S" HANDHOLE
N.T.S.

NOTES:

THE DRAWINGS REPRESENT ELECTRICAL DESIGN INTENT. THEY ARE SCHEMATIC AND DIAGRAMMATIC AND DO NOT INDICATE CONSTRUCTION DETAILS OR ROUTING UNLESS OTHERWISE NOTED. THE SPECIAL PROVISIONS ESTABLISH MINIMUM PERFORMANCE AND PRODUCT INSTALLATION REQUIREMENTS. PROVIDE MATERIALS CONSISTENT WITH THE DESIGN INTENT AND NECESSARY FOR COMPLETE ELECTRICAL OPERATING SYSTEMS.

IF A BURIED AND/OR UNKNOWN PLD STRUCTURE/HANDHOLE IS DISCOVERED WITHIN THE PROJECT CONSTRUCTION LIMITS AND IF IT IS NECESSARY TO REPAIR THE EXISTING STRUCTURE TO ALLOW FOR THE CONSTRUCTION OF THE PROPSOED SITE IMPROVEMENTS, CONTRACTOR SHALL PROVIDE A RAIL SUPPORTED VAULT ROOF AS SHOWN ON THE TYPE "S" PLD HANDHOLE IN THE ELECTRICAL SPECIAL PROVISIONS THE RAIL SUPPORTED VAULT ROOF SHALL BE PAID FOR PER THE PAY ITEM "Hh, TYPE S, PLD. THE CONSTRUCTION MATERIALS SHALL BE IN COMPLIANCE WITH PLD STANDARDS AND REQUIREMENTS.

FURNISH MATERIALS, EQUIPMENT, LABOR AND SERVICES REQUIRED OFR THE INSTALLATION OF ELECTRICAL WORK AS REQUIRED TO PROVIDE A COMPLETE AND OPERABLE ELECTRICAL SYSTEM AS INDICATED ON THE DRAWINGS.

PROVIDE INCIDENTAL ITEMS NOT INDICATED ON THE DRAWINGS, NOR MENTIONED IN THE SPECIAL PROVISIONS THAT CAN BE LEGITIMATLEY AND REASONABLY INFERRED TO BELONG TO THE WORK DESCRIBED OR BE NECESSARY IN GOOD PRACTICE TO PROVIDE A COMPLETE INSTALLATION.

COMPLY WITH THE LATEST ACTIVE OR ADOPTED EDITIONS OF THE NATIONAL ELECTRICAL CODES, STATE, CITY AND LOCAL ELECTRICAL CODES. WHERE CONFLICTS OCCUR, APPLY THE MORE STRINGENT OF THE CODE ENFORCED BY THE PLD.

COMPLY WITH APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS, CODES OR RULING POF GOVERNMENTAL UNITS HAVNING JURISDICTION, AS WELL AS STANDARDS OF THE NATIONAL FIRE PROTECTION ASSOCIATION.

COORDINATE, SCHEDULE AND SEQUENCE ELECTRICAL WORK WITH OTHER TRADES. DOCUMENT SCHEDULE REQUIREMENTS AND COORDINATE EFFORTS.

SUBMIT SHOP DRAWINGS, CATALOG CUTS, DATA SHEETS OR ANY OTHER DESCRIPTIVE LITERATURE NECESSARY TO CONVEY INFORMATION FOR ENGINEERING REVIEW OF THE FOLLOWING ITEMS OF ELECTRICAL WORK:
- CONDUIT AND ACCESSORIES
- WIRING AND CABLES

THE PAY ITEM "CONDUIT, 5 INCH, FIBERGLASS" SHALL INCLUDE ALL FITTINGS, SUPPORTS AND SPACERS FOR ENCASEMENT, INCLUDING RIGID FOAM INSULATION, IF REQUIRED.

THE PAY ITEM "CONDUIT, DIRECTIONAL BORE, 4, 4 INCH" SHALL INCLUDE ALL COSTS ASSOCIATED WITH ANY REQUIRED BORE PIT EXCAVATIONS, INLCUDING TEMP SHORING OR BRACING. SIDEWALKS OR PAVEMENT DAMAGED DUE TO CONDUIT INSTALLATION INCLUDING BORING, SHALL BE REPAIRED AND COSTS SHALL BE INCLUDED IN THIS PAY ITEM.

PLD MANHOLE ADJUSTMENTS ARE NOTED ON SHEET 22 AND ARE PAID FOR AS " DR STRUCTURE COVER, ADJ, CASE I. EXISTING COVERS SHALL BE REUSED.

CONTRACTOR SHALL DETERMINE LOCATION OF BORE PITS WITH ENGINEER'S APPROVAL.

REV#	DATE	DESCRIPTION	BY

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500 Griswold, Suite 2500
Detroit, MI 48226
313.962.7000
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CITY ENGINEERING DIVISION
JEFFERSON AVE. OVER CONRAIL
PLD SITE PLAN

ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-12T

SHEET 44

JEFFERSON AVE. BRIDGE

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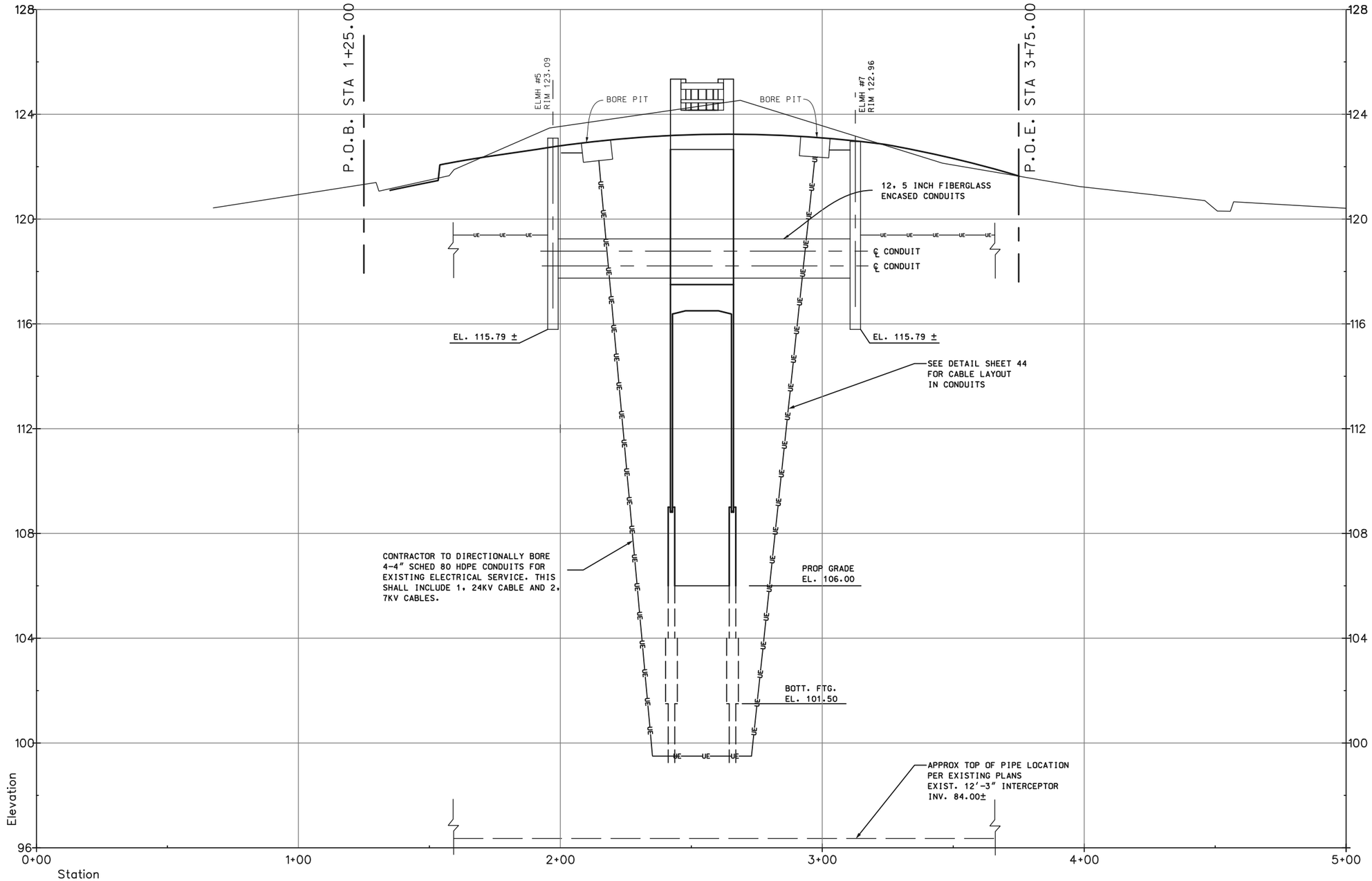
PLOTTED 6/12/2014 11:30

PROJECT MANAGER: - FIELD BOOK INFORMATION: -
c:\pw_work\d0401191\CPS-PLTS-ElectricalSitePlan.dgn



PROFILE

(LOOKING NORTH)

REV*	DATE	DESCRIPTION	BY

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CITY ENGINEERING DIVISION
JEFFERSON AVE. OVER CONRAIL
PLD CONDUIT PROFILE

ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-12T

SHEET 45

JEFFERSON AVE. BRIDGE

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PROJECT MANAGER: -
FIELD BOOK INFORMATION: -
c:\pw_work\rbreen\d0401191\CPS-PLTS-ElectricalSiteProfile.dgn
PLOTTED 5/21/2014 3:18:10 PM BY rbreen

STAGE 1 BAR SCHEDULE

OUTPUT

	BAR	DIMENSIONS a	b	c	d	e	f	g	h	j	NO. REQ'D	TOTAL WT.
FOOTINGS	EA050606	6'-6"									128	868
	EA053304	33'-4"									20	695
	EA053206	32'-6"									20	678
	EB050806	6'-6"	2'-0"								128	1135
	EK041206	3'-6"	1'-9"	1'-9"	2'-0"						130	1086
											TOTAL =	4461

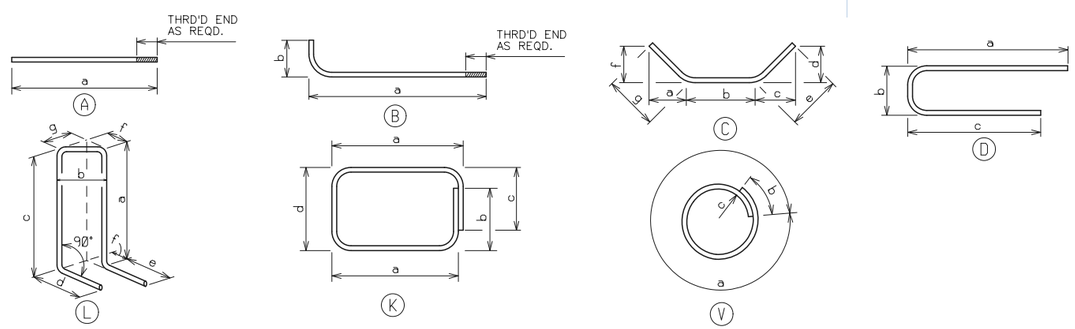
	BAR	DIMENSIONS a	b	c	d	e	f	g	h	j	NO. REQ'D	TOTAL WT.
DRILLED SHAFTS	EA101200	12'-0"									80	4131
	EV040810	8'-5"	5"	1'-4"							130	767
											TOTAL =	4898

	BAR	DIMENSIONS a	b	c	d	e	f	g	h	j	NO. REQ'D	TOTAL WT.
STRUTS	EA052606	26'-6"									25	691
	EA072606	26'-6"									45	2437
	EK041006	3'-6"	1'-0"	1'-0"	1'-6"						95	666
											TOTAL =	3795

	BAR	DIMENSIONS a	b	c	d	e	f	g	h	j	NO. REQ'D	TOTAL WT.
SILL WALL	EA043209	32'-9"									32	700
	EA071000	10'-0"									4	82
	EA071906	19'-6"									20	797
	EA072307	23'-7"									14	675
	EA072603	26'-3"									16	858
	EA073108	31'-8"									14	906
	EA073402	34'-2"									20	1397
	ED040400	1'-0"	2'-0"	1'-0"							128	342
											TOTAL =	5757

	BAR	DIMENSIONS a	b	c	d	e	f	g	h	j	NO. REQ'D	TOTAL WT.
BRIDGE RAILING	EA040203	2'-3"	WITH 3" THREADED END								47	71 *
	EA040409	7'-6"									4	13
	EA040706	7'-6"									4	20
	EA042306	23'-6"									6	94
	EA042310	23'-10"									6	96
	EA042610	26'-10"									6	108
	EA043002	30'-2"									6	121
	EB040209	2'-3"	6"	WITH 3" THREADED END							47	86 *
	EL040804	2'-9"	7"	3'-6"	0	1'-6"	7"	0			87	484
	EL061104	4'-6"	7"	3'-9"	1'-3"	1'-3"	0	7"			8	136
	EL061110	4'-6"	7"	5'-3"	0	1'-6"	7"	0			16	284
											TOTAL =	1513

	BAR	DIMENSIONS a	b	c	d	e	f	g	h	j	NO. REQ'D	TOTAL WT.
SIDEWALK	EA040400	4'-0"									46	123
	EA040500	5'-0"									41	137
	EA040706	7'-6"									1	5
	EA041207	12'-7"									1	8
	EA041509	15'-9"									1	11
	EA042400	24'-0"									1	16
	EA042507	25'-7"									1	17
	EA042611	26'-11"									16	288
	EA043003	34'-5"									16	323
	EB041103	10'-9"	6"								87	654
											TOTAL =	1582



STAGE 2 BAR SCHEDULE

	BAR	DIMENSIONS a	b	c	d	e	f	g	h	j	NO. REQ'D	TOTAL WT.
FOOTINGS	EA050306	3'-6"									20	73
	EA050403	4'-3"									2	9
	EA050504	5'-4"									2	11
	EA050606	6'-6"									46	312
	EA050607	6'-7"	WITH 3" THREADED END								20	137 *
	EA051207	12'-7"									20	262
	EB050603	4'-3"	2'-0"								2	13
	EB050704	5'-4"	2'-0"								2	15
	EB050806	6'-6"	2'-0"								46	408
	EC050705	2'-5 1/2"	4'-3"	0	0	0	1'-11 7/8"	3'-2"			4	31
	EK041206	3'-6"	1'-9"	1'-9"	2'-0"						52	434
											TOTAL =	1706

	BAR	DIMENSIONS a	b	c	d	e	f	g	h	j	NO. REQ'D	TOTAL WT.
DRILLED SHAFTS	EA101000	10'-0"									16	688
	EA101200	12'-0"									16	826
	EA101400	14'-0"									32	1928
	EA101500	15'-0"									16	1033
	EA101900	19'-0"									16	1308
	EV040810	8'-5"	5"	1'-4"							176	1039
											TOTAL =	8822

	BAR	DIMENSIONS a	b	c	d	e	f	g	h	j	NO. REQ'D	TOTAL WT.
STRUTS	EA052606	26'-6"									20	553
	EA072606	26'-6"									36	1950
	EK041006	3'-6"	1'-0"	1'-0"	1'-6"						76	533
											TOTAL =	3036

	BAR	DIMENSIONS a	b	c	d	e	f	g	h	j	NO. REQ'D	TOTAL WT.
SILL WALLS	EA041000	10'-0"	WITH 3" THREADED END								4	27 *
	EA042805	28'-5"	WITH 3" THREADED END								12	228 *
	EA042805	28'-5"									12	228
	EA043506	35'-6"									4	95
	EA050302	3'-2"									32	106
	EA050308	3'-8"	(AVERAGE - 3'-4" MIN, 4'-0" MAX)								20	76
	EA050400	4'-0"									76	317
	EA070700	7'-0"	WITH 3" THREADED END								16	229 *
	EA072400	24'-0"									8	392
	EA072800	28'-0"									20	1145
	EA072810	28'-10"	WITH 3" THREADED END								12	707 *
	EA073506	35'-6"									20	1451
	EC071502	5'-7 1/4"	9'-6"	0	0	0	10 1/4"	5'-8"			18	558
	ED040400	1'-0"	2'-0"	1'-0"							108	289
											TOTAL =	5847

	BAR	DIMENSIONS a	b	c	d	e	f	g	h	j	NO. REQ'D	TOTAL WT.
BRIDGE RAILING	EA040203	2'-3"	WITH 3" THREADED END								47	71 *
	EA040409	7'-6"									4	13
	EA040706	7'-6"									4	20
	EA042310	23'-10"									6	96
	EA043800	38'-0"									6	152
	EB040209	2'-6"	6"	WITH 3" THREADED END							47	86 *
	EL040804	2'-9"	7"	3'-6"	0	1'-6"	7"	0			92	512
	EL061104	4'-6"	7"	3'-9"	1'-3"	1'-3"	0	7"			8	136
	EL061110	4'-6"	7"	5'-3"	0	1'-6"	7"	0			16	284
											TOTAL =	1370

	BAR	DIMENSIONS a	b	c	d	e	f	g	h	j	NO. REQ'D	TOTAL WT.
SIDEWALK	EA042010	20'-10"									15	209
	EA043800	38'-0"										
	EB041103	10'-9"	6"									

R1 - 41,261 lbs

Orig - 35,266 lbs

Increase - 42053 - 41261 = 792 lbs

REINF
AS SI

EPOXY COATED
BAR SIZE
BAR LENGTH (FT)
BAR LENGTH (IN)
EA064700
BAR SHAPE
BAR LEGEND

MISCELLANEOUS QUANTITIES

42,053	LB	REINFORCEMENT, STEEL, EPOXY COATED

* DENOTES THREADED BAR

REV#	DATE	DESCRIPTION	BY
1	3-27-2015	REVISED BRIDGE LOCATION	RRB
2	8-11-2015	REVISED SHAFT LOCATIONS	RRB

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500 Griswold, Suite 2500
Detroit, MI 48226
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DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION
JEFFERSON AVE. OVER CONRAIL
STEEL REINFORCEMENT DETAILS

ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-12T

SHEET 46

JEFFERSON AVE. BRIDGE

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PROJECT MANAGER: - FIELD BOOK INFORMATION: -
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STAGE 1 BAR SCHEDULE

	BAR	DIMENSIONS a	b	c	d	e	f	g	h	j	k	m	p	NO. REQ'D	TOTAL WT.	
FOOTING	EA050506	5'-6"												72	413	
	EA051500	15'-0"												12	188	*
	EA052106	21'-6"												8	179	*
	EA053200	32'-0"												8	267	
	EA053806	38'-6"												12	482	
	EB050803	6'-0"	2'-3"											72	620	
	EK041206	3'-6"	1'-9"	1'-9"	2'-0"									106	885	
														TOTAL = 3034		

	BAR	DIMENSIONS a	b	c	d	e	f	g	h	j	k	m	p	NO. REQ'D	TOTAL WT.
DRILLED SHAFTS	EA101200	12'-0"												16	826
	EA101400	14'-0"												32	1928
	EA101900	19'-0"												16	1308
	EV040810	8'-7"	0'-3"	1'-4"										126	743
														TOTAL = 4806	

	BAR	DIMENSIONS a	b	c	d	e	f	g	h	j	k	m	p	NO. REQ'D	TOTAL WT.	
SILL WALL	EA041500	15'-0"												4	40	*
	EA042106	21'-6"												4	57	*
	EA043109	31'-9"												4	85	
	EA043803	38'-3"												4	102	
	EA041500	15'-0"												16	250	
	EA053803	38'-3"												16	638	
	EA071500	15'-0"												8	245	*
	EA072206	22'-6"												8	368	*
	EA073109	31'-9"												8	519	
	EA073903	39'-3"												8	642	
	ED040306	1'-0"	1'-6"	1'-0"										108	253	
														TOTAL = 3200		

	BAR	DIMENSIONS a	b	c	d	e	f	g	h	j	k	m	p	NO. REQ'D	TOTAL WT.
BRIDGE RAILING	EA040203	2'-3"		6" THREADED ONE END										36	54
	EA040409	4'-9"												4	13
	EA040706	7'-6"												4	20
	EA042306	23'-6"												6	94
	EA042707	27'-7"												6	111
	EA043106	31'-6"												6	126
	EB040209	2'-3"	0'-6"	6" THREADED ONE END										36	66
	EL040803	1'-9"		3'-6"		1'-0"	0'-6"							74	408
	EA060311	3'-11"												16	94
	EB060405	3'-11"	0'-6"											16	106
	EL061011	4'-2"		5'-3"		1'-0"	0'-6"							16	262
	EL061100	3'-10"	0'-7"	4'-3"	1'-3"	1'-3"								8	132
														TOTAL = 1487	

	BAR	DIMENSIONS a	b	c	d	e	f	g	h	j	k	m	p	NO. REQ'D	TOTAL WT.
STRUTS	EA052306	23'-6"												20	490
	EA072306	23'-6"												36	1729
	EK041006	3'-6"	1'-0"	1'-0"	1'-6"									76	533
														TOTAL = 2752	

	BAR	DIMENSIONS a	b	c	d	e	f	g	h	j	k	m	p	NO. REQ'D	TOTAL WT.
SIDEWALK	EA042701	27'-1"												15	271
	EA043010	30'-10"												15	309
	EB041105	10'-11"	0'-6"											91	694
														TOTAL = 1274	

STAGE 2 BAR SCHEDULE

	BAR	DIMENSIONS a	b	c	d	e	f	g	h	j	k	m	p	NO. REQ'D	TOTAL WT.	
FOOTING	EA050506	5'-6"												84	482	
	EA052603	26'-3"												12	329	*
	EA052808	28'-8"												8	239	
	EA053401	34'-1"												8	284	
	EA053606	36'-6"												12	457	*
	EB050803	6'-0"	2'-3"											84	723	
	EK041206	3'-6"	1'-9"	1'-9"	2'-0"									124	1035	
														TOTAL = 3549		

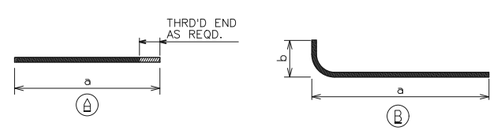
	BAR	DIMENSIONS a	b	c	d	e	f	g	h	j	k	m	p	NO. REQ'D	TOTAL WT.
DRILLED SHAFTS	EA101200	12'-0"												80	4131
	EV040810	8'-7"	0'-3"	1'-4"										130	767
														TOTAL = 4898	

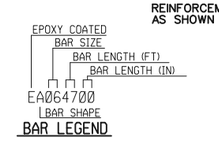
	BAR	DIMENSIONS a	b	c	d	e	f	g	h	j	k	m	p	NO. REQ'D	TOTAL WT.	
SILL WALL	EA042600	26'-0"												4	69	
	EA042808	28'-8"												4	77	*
	EA043310	33'-10"												4	90	
	EA043606	36'-6"												4	98	*
	EA052600	26'-0"												16	434	
	EA053606	36'-6"												16	609	*
	EA072703	27'-3"												8	446	
	EA072808	28'-8"												8	469	*
	EA073510	35'-10"												8	586	
	EA073606	36'-6"												8	597	*
	ED040306	1'-0"	1'-6"	1'-0"										120	281	
														TOTAL = 3755		

	BAR	DIMENSIONS a	b	c	d	e	f	g	h	j	k	m	p	NO. REQ'D	TOTAL WT.	
BRIDGE RAILING	EA040203	2'-3"												36	54	*
	EA040409	4'-9"												4	13	
	EA040706	7'-6"												4	20	
	EA042301	23'-1"												6	93	
	EA042306	23'-6"												6	94	
	EA043403	34'-3"												6	137	
	EB040209	2'-3"	0'-6"											36	66	*
	EL040803	1'-9"		3'-6"		1'-0"	0'-6"							71	391	
	EA060311	3'-11"												16	94	
	EB060405	3'-11"	0'-6"											16	106	
	EL061011	4'-2"		5'-3"		1'-0"	0'-6"							16	262	
	EL061100	3'-10"	0'-7"	4'-3"	1'-3"	1'-3"								8	132	
														TOTAL = 1463		

	BAR	DIMENSIONS a	b	c	d	e	f	g	h	j	k	m	p	NO. REQ'D	TOTAL WT.
STRUTS	EA052306	23'-6"												25	613
	EA072306	23'-6"												45	2162
	EK041006	3'-6"	1'-0"	1'-0"	1'-6"									95	666
														TOTAL = 3441	

	BAR	DIMENSIONS a	b	c	d	e	f	g	h	j	k	m	p	NO. REQ'D	TOTAL WT.
SIDEWALK	EA040400	4'-0"												36	96
	EA040503	5'-3"												53	186
	EA041503	15'-3"												1	10
	EA041611	16'-11"												1	11
	EA042201	22'-1"												1	15
	EA042209	22'-9"												15	228
	EA042301	23'-1"												1	15
	EA043403	34'-3"												1	23
	EA043405	34'-5"												15	345
	EB041105	10'-11"	0'-6"											89	679
														TOTAL = 1608	





REINFORCEMENT SHALL BE BUNDLED AND TAGGED AS TO THE LOCATION AS SHOWN ON THIS SHEET.

MISCELLANEOUS QUANTITIES		
35,266	Lb	REINFORCEMENT, STEEL, EPOXY COATED

* DENOTES THREADED BAR

REV*	DATE	DESCRIPTION	BY

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500 Griswold, Suite 2500
Detroit, MI 48226
(313) 961-8570
FAX: 313.961.0868
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STEEL REINFORCEMENT DETAILS

ISSUED FOR: DATE: BY:

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SHEET 46

JEFFERSON AVE. BRIDGE

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PROJECT MANAGER: -
FIELD BOOK INFORMATION: -
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BILL OF MATERIALS: ROAD ITEMS (PART 1)

ITEM NUMBER	ITEM DESCRIPTION	TOTAL PLAN QUANTITY	ITEM UNIT
1027051	AUDIO-VISUAL FILMING (SN 12344)	1	LS
1500001	MOBILIZATION, MAX (SN 12344)	1	LS
2020004	TREE, REM, 6 INCH TO 18 INCH	2	EA
2040020	CURB AND GUTTER, REM	27	FT
2040025	FENCE, REM	237	FT
2040050	PAVT, REM	2070	SYD
2040055	SIDEWALK, REM	520	SYD
2050016	EXCAVATION, EARTH	475	CYD
3010002	SUBBASE, CIP	88	CYD
3020010	AGGREGATE BASE, 4 INCH	2400	SYD
4030005	DR STRUCTURE COVER, ADJ CASE 1	4	EA
4030010	DR STRUCTURE, COVER, TYPE B	1	EA
4040073	UNDERDRAIN, SUBGRADE, 6 INCH	360	FT
5010005	HMA SURFACE, REM	2070	SYD
6020166	CONC PAVT WITH INTEGRAL CURB, NONREINF, 9 INCH	2400	SYD
6020200	JOINT, CONTRACTION, CP	1620	FT
7060011	CONC, GRADE S2	25	CYD
8010005	DRIVEWAY, NONREINF CONC, 6 INCH	22	SYD
8020002	CURB, CONC, DET E2	75	FT
8020050	DRIVEWAY OPENING, CONC, DET M	29	FT
8030044	SIDEWALK, CONC, 4 INCH	3500	SFT
8087050	FENCE, TREE PROTECTION	4	EA
8110153	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, WHITE	1590	FT
8110154	PAVT MRKG, SPRAYABLE THERMOPL, 4 INCH, YELLOW	1060	FT
8120022	BARRICADE, TYPE III, HIGH INTENSITY, LIGHTED, FURN	18	EA
8120023	BARRICADE, TYPE III, HIGH INTENSITY, LIGHTED, OPER	16	EA
8120081	CONC BARRIER, TEMP, FURN	80	FT
8120082	CONC BARRIER, TEMP, OPER	80	FT
8120083	CONC BARRIER, TEMP, RELOCATED	160	FT
8120140	LIGHTED ARROW, TYPE C, FURN	5	EA
8120141	LIGHTED ARROW, TYPE C, OPER	4	EA
8120170	MINOR TRAF DEVICES (SN 12344)	1	LS
8120240	PAVT MRKG, TYPE R, 4 INCH, WHITE, TEMP	2575	FT
8120241	PAVT MRKG, TYPE R, 4 INCH, YELLOW, TEMP	5764	FT
8120260	PLASTIC DRUM, HIGH INTENSITY, LIGHTED, FURN	294	EA
8120261	PLASTIC DRUM, HIGH INTENSITY, LIGHTED, OPER	267	EA
8120310	SIGN COVER	25	EA
8120350	SIGN, TYPE B, TEMP, PRISMATIC, FURN	593	SFT
8120351	SIGN, TYPE B, TEMP, PRISMATIC, OPER	496	SFT
8120352	SIGN, TYPE B, TEMP, PRISMATIC, SPECIAL, FURN	145	SFT
8120353	SIGN, TYPE B, TEMP, PRISMATIC, SPECIAL, OPER	129	SFT
8150001	SITE PREPARATION, MAX (SN 12344)	1	LS
8150002	WATERING AND CULTIVATING, FIRST SEASON, MIN (SN 12344)	1	LS
8150003	WATERING AND CULTIVATING, SECOND SEASON, MIN (SN 12344)	1	LS
8151658	GLEDITSIA TRIACANTHOS INERMIS 'SKYLINE', 1 1/2 INCH	2	EA
8160100	SLOPE RESTORATION, TYPE A	100	SYD
8190046	CONDUIT, DIRECTIONAL BORE, 4 INCH	800	FT
8190102	CONDUIT, FIBERGLASS, 5 INCH, STRUCTURE	1500	FT
8190140	CONDUIT, REM	60	FT
8190201	DB CABLE, IN CONDUIT, 600V, 1/C#2 (PLD)	375	FT
8190263	Hh, TYPE S (PLD)	2	EA
8190276	LIGHT STD ARM, INSTALL SALV	3	EA
8190278	LIGHT STD ARM, REM AND SALV	3	EA
8190279	LIGHT STD FDN	4	EA
8190280	LIGHT STD FDN, REM	4	EA
8190301	LIGHT STD SHAFT, INSTALL SALV	3	EA
8190306	LIGHT STD SHAFT, REM AND SALV	3	EA
8190350	LUMINAIRE, INSTALL SALV	3	EA
8190365	LUMINAIRE, REM AND SALV	3	EA
8197001	CABLE, 7KV, PILC, P.J. (SPECIAL)	400	FT
8197001	CABLE, 24KV, PILC, P.J. (SPECIAL)	200	FT
8230095	HYDRANT, RELOCATE, CASE 1	2	EA
8230421	WATER SHUTOFF, ADJ, CASE 1	1	EA
8230431	GATE BOX, ADJ, CASE 1	2	EA

BILL OF MATERIALS: BRIDGE ITEMS (PART 2)

ITEM NUMBER	ITEM DESCRIPTION	TOTAL PLAN QUANTITY	ITEM UNIT
2010001	CLEARING	0.25	ACRE
2040001	ASBESTOS MATERIALS, REMOVAL AND DISPOSAL	20000	DLR
2040061	STRUCTURES, REM PORTIONS (SN 12344)	1	LS
2040080	EXPLORATORY INVESTIGATION, VERTICAL	150	FT
2047051	RELOCATION AND SITE CLEANUP (SN 12344)	1	LS
2050031	NON-HAZARDOUS CONTAMINATED MATERIAL HANDLING AND DISPOSAL, LM	240	CYD
2060002	BACKFILL, STRUCTURE, CIP	1300	CYD
2060010	EXCAVATION, FDN	1800	CYD
2067021	BACKFILL, STRUCTURE, CIP, SPECIAL	250	CYD
2080020	EROSION CONTROL, INLET PROTECTION, FABRIC DROP	4	EA
2080036	EROSION CONTROL, SILT FENCE	400	FT
2090001	PROJECT CLEANUP (SN 12344)	1	LS
4040033	UNDERDRAIN, FDN, 6 INCH	316	FT
4040093	UNDERDRAIN OUTLET, 6 INCH	16	FT
4040113	UNDERDRAIN, OUTLET ENDING, 6 INCH	4	EA
4067001	CULV, PRECAST THREE-SIDED OR ARCH, 22 FOOT BY 8 FOOT	114	FT
7040002	STEEL SHEET PILING, TEMP	1500	SFT
7057051	MONITORING VIBRATIONS (SN 12344)	1	LS
7060020	CONC, LOW TEMPERATURE PROTECTION	220	CYD
7060040	ELEC GROUNDING SYSTEM	1	EA
7060092	REINFORCEMENT, STEEL, EPOXY COATED	35266	LB
7060100	SUBSTRUCTURE CONC	220	CYD
7067001	MSE WALL, LEVELING PAD, CONC	119	FT
7067010	MSE WALL, PRECAST, FURN	1810	SFT
7067010	MSE WALL, PRECAST, INSTALL	1810	SFT
7067010	MSE WALL, WIRE FACED, PERM, FURN	544	SFT
7067010	MSE WALL, WIRE FACED, PERM, INSTALL	544	SFT
7067011	LINER, PVC, 30 MIL	400	SYD
7067011	TEXTURING CONC	33	SYD
7027021	BACKFILL, SELECT	1700	CYD
7100001	JOINT WATERPROOFING	1789	SFT
7100011	CONC SURFACE COATING	315	SYD
7117001	BRIDGE RAILING, AESTHETIC PARAPET TUBE, DETAIL 1 (MOD)	168	FT
7120084	REINFORCEMENT, MECHANICAL SPLICE	60	EA
7180010	DRILLED SHAFT EQUIPMENT, FURNISHED (SN 12344)	1	LS
7180036	DRILLED SHAFT, 36 INCH	1845	FT
7180100	OBSTRUCTION REMOVAL	10000	DLR
7180121	TEMP CASING-LEFT IN PLACE	118	FT
8030044	SIDEWALK, CONC, 4 INCH	488	SFT
8037010	SIDEWALK, CONC, 6 INCH, MODIFIED	1338	SFT
8080047	FENCE GATE, 8 FOOT, FOR 120 INCH CHAIN LINK FENCE	2	EA
8080110	FENCE, STRUCTURE	1344	SFT
8087001	FENCE, CHAIN LINK, 120 INCH, MODIFIED	30	FT
8160103	SLOPE RESTORATION, TYPE D	200	SYD
8240001	CONTRACTOR STAKING (SN 12344)	1	LS
8240020	STAKING PLAN ERRORS AND EXTRAS, ONE PERSON	8	HR
8240021	STAKING PLAN ERRORS AND EXTRAS, TWO PERSON	4	HR
8240022	STAKING PLAN ERRORS AND EXTRAS, THREE PERSON	6	HR

REV#	DATE	DESCRIPTION	BY

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500 Griswold, Suite 2500
Detroit, MI 48226
PH: 313.961.3650
FAX: 313.961.0388
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JEFFERSON AVE. OVER CONRAIL
BILL OF MATERIALS

ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-12T

SHEET 47

JEFFERSON AVE. BRIDGE

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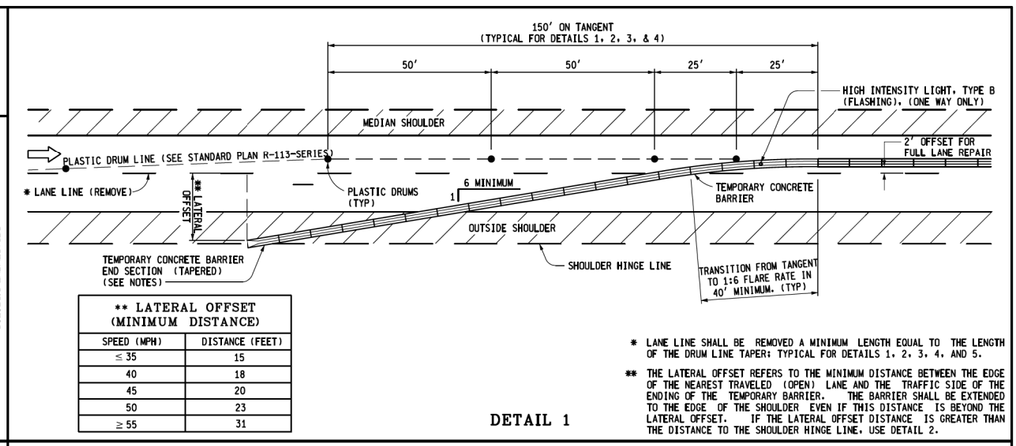
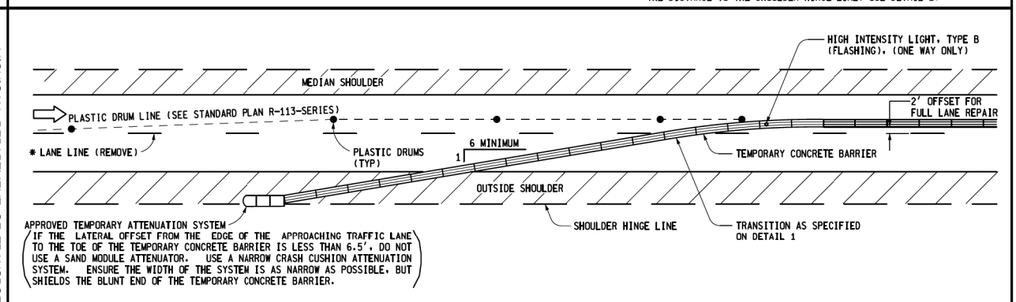


** LATERAL OFFSET (MINIMUM DISTANCE)	
SPEED (MPH)	DISTANCE (FEET)
≤ 35	15
40	18
45	20
50	23
≥ 55	31

* LANE LINE SHALL BE REMOVED A MINIMUM LENGTH EQUAL TO THE LENGTH OF THE DRUM LINE TAPER: TYPICAL FOR DETAILS 1, 2, 3, 4, AND 5.

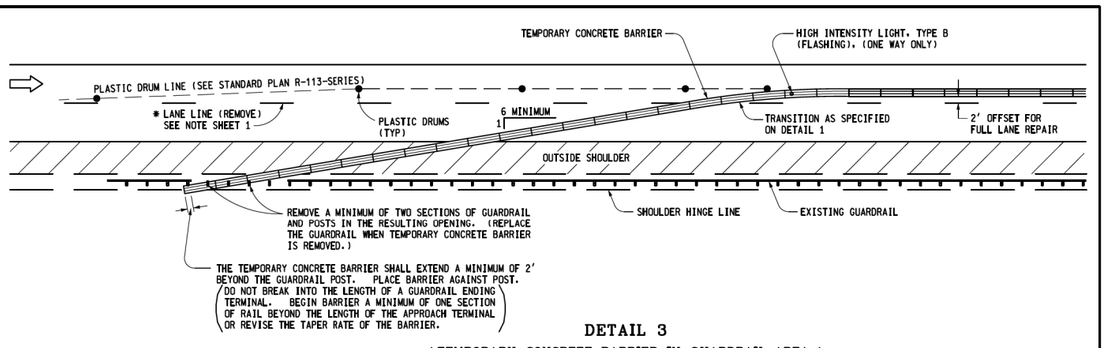
** THE LATERAL OFFSET REFERS TO THE MINIMUM DISTANCE BETWEEN THE EDGE OF THE NEAREST TRAVELED (OPEN) LANE AND THE TRAFFIC SIDE OF THE ENDING OF THE TEMPORARY BARRIER. THE BARRIER SHALL BE EXTENDED TO THE EDGE OF THE SHOULDER EVEN IF THIS DISTANCE IS BEYOND THE LATERAL OFFSET. IF THE LATERAL OFFSET DISTANCE IS GREATER THAN THE DISTANCE TO THE SHOULDER HINGE LINE, USE DETAIL 2.

DETAIL 1



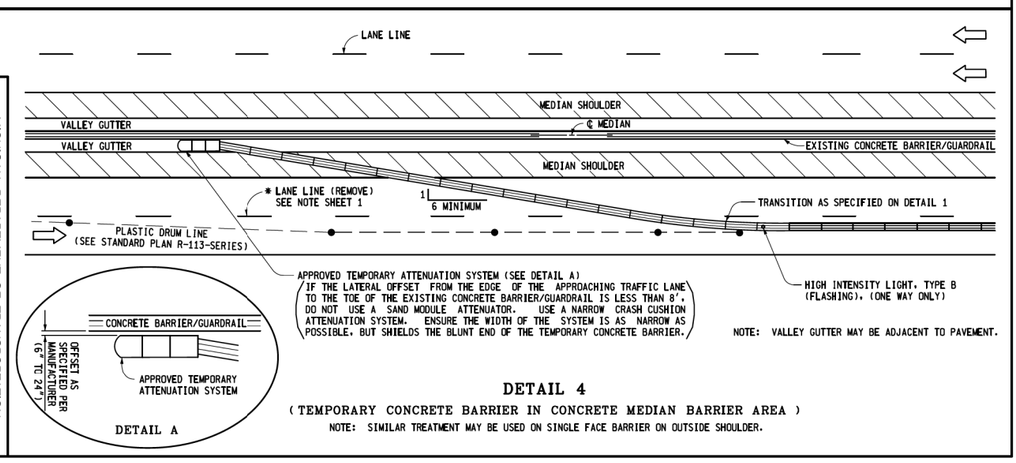
DETAIL 2

WHEN DETAIL 1 CANNOT BE USED BECAUSE OF RESTRICTED LATERAL OFFSET



DETAIL 3

(TEMPORARY CONCRETE BARRIER IN GUARDRAIL AREA)



DETAIL 4

(TEMPORARY CONCRETE BARRIER IN CONCRETE MEDIAN BARRIER AREA)

NOTE: SIMILAR TREATMENT MAY BE USED ON SINGLE FACE BARRIER ON OUTSIDE SHOULDER.

MDOT Michigan Department of Transportation

PREPARED BY: DESIGN DIVISION
DRAWN BY: W.L.L.
CHECKED BY: K.K.P.

APPROVED BY: DIRECTOR, BUREAU OF FIELD SERVICES

APPROVED BY: DIRECTOR, BUREAU OF HIGHWAY DEVELOPMENT

DEPARTMENT DIRECTOR
Kirk T. Steudle

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

PLACEMENT OF TEMPORARY CONCRETE BARRIER

F.H.W.A. APPROVAL
3-26-2012 PLAN DATE
R-126-I
SHEET 1 OF 5

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

PLACEMENT OF TEMPORARY CONCRETE BARRIER

F.H.W.A. APPROVAL
3-26-2012 PLAN DATE
R-126-I
SHEET 2 OF 5

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

AS-LET PLAN REVISIONS

MDOT Michigan Department of Transportation
0 VERT. (FT) 0
HORZ. (FT)

FILE:
DATE:
DESIGN UNIT:
TSC:
CS:
JN:
DRAWING
SHEET

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JEFFERSON AVE. OVER CONRAIL
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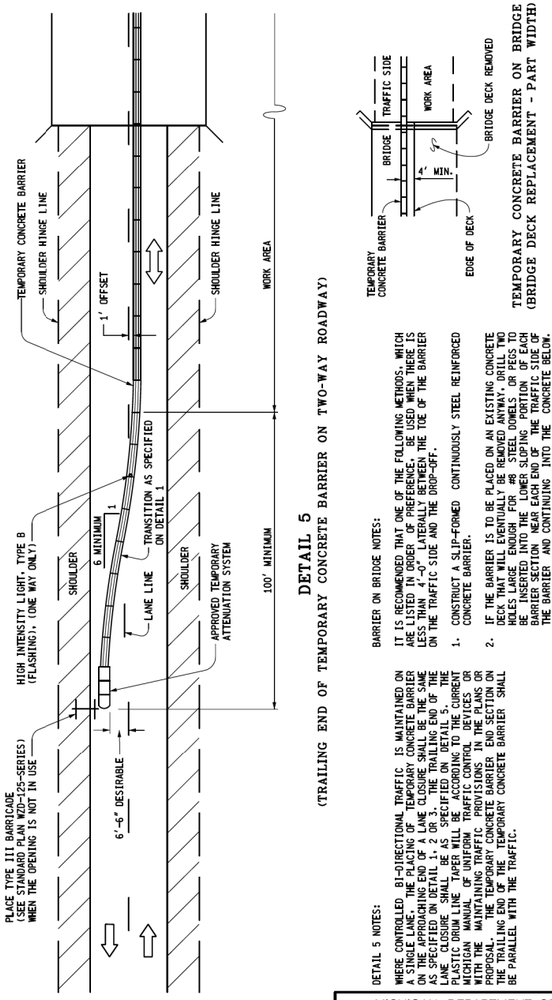


TEMPORARY CONCRETE BARRIER ON BRIDGE
(BRIDGE DECK REPLACEMENT - PART WIDTH)

DETAIL 5
(TRAILING END OF TEMPORARY CONCRETE BARRIER ON TWO-WAY ROADWAY)

DETAIL 5 NOTES:

WHERE CONTROLLED BI-DIRECTIONAL TRAFFIC IS MAINTAINED ON A SINGLE LANE, THE PLACING TEMPORARY CONCRETE BARRIER ON THE APPROACHING END OF A LANE CLOSURE SHALL BE THE SAME AS SPECIFIED ON DETAIL 1, 2 OR 3. THE TRAILING END OF THE LANE CLOSURE SHALL BE AS SPECIFIED ON DETAIL 5. THE PLASTIC DRUM LINE TAPER WILL BE ACCORDING TO THE CURRENT MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES OR WITH THE MAINTAINING TRAFFIC PROVISIONS IN THE PLANS OR PROPOSAL. THE TEMPORARY CONCRETE BARRIER END SECTION ON THE TRAILING END OF THE TEMPORARY CONCRETE BARRIER SHALL BE PARALLEL WITH THE TRAFFIC.

BARRIER ON BRIDGE NOTES:

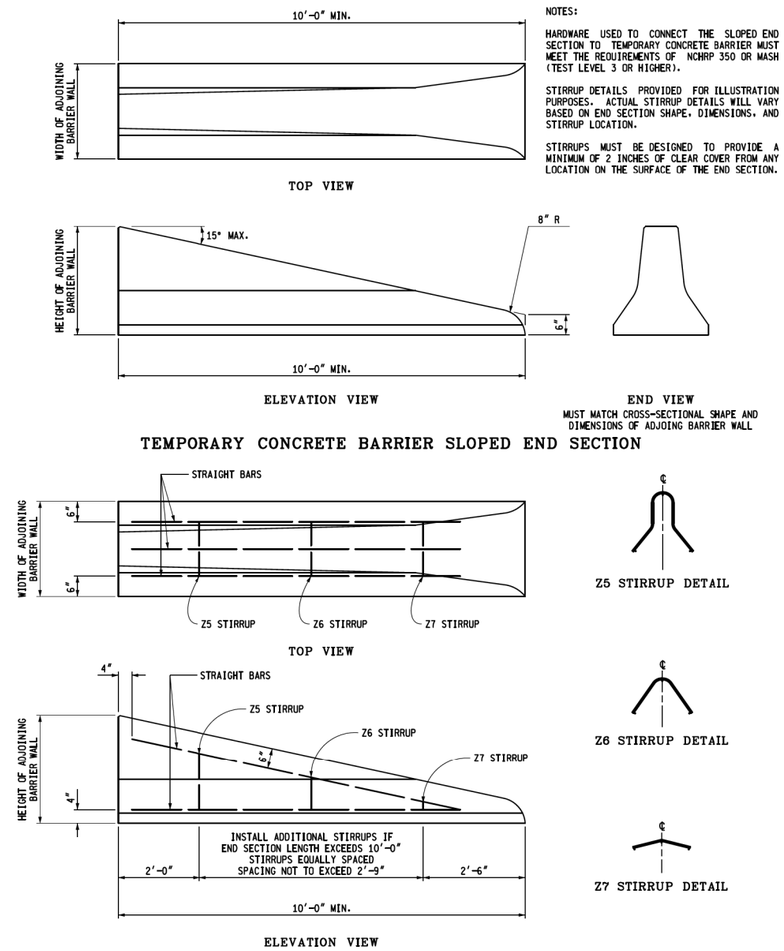
IT IS RECOMMENDED THAT ONE OF THE FOLLOWING METHODS, WHICH ARE LISTED IN ORDER OF PREFERENCE, BE USED WHEN THERE IS LESS THAN 4'-0" LATERALLY BETWEEN THE TOE OF THE BARRIER ON THE TRAFFIC SIDE AND THE DROP-OFF.

1. CONSTRUCT A SLIP-FORMED CONTINUOUSLY STEEL REINFORCED CONCRETE BARRIER.
2. IF THE BARRIER IS TO BE PLACED ON AN EXISTING CONCRETE DECK THAT WILL EVENTUALLY BE REMOVED ANYWAY, DRILL TWO HOLES LARGE ENOUGH FOR #8 STEEL DOWELS, OR PEGS TO BE LOCATED ON EACH END OF THE BARRIER SECTION NEAR EACH EDGE OF THE TRAFFIC SIDE OF THE BARRIER, AND CONTINUING INTO THE CONCRETE BELOW. THESE DOWELS SHOULD EXTEND 6" IN THE DECK, AND AT LEAST 6" INTO THE BARRIER. (BUT NOT PROTRUDE ABOVE THE BARRIER) SUPPORT AND BE GROUTED TO PREVENT BOTH SLIDING AND OVERTURNING OF THE BARRIER SECTION.
3. IF BARRIER IS PLACED ON A NEWLY CONSTRUCTED SURFACE, DEVICES FOR ANCHORING THE TEMPORARY CONCRETE BARRIER COULD BE USED, PROVIDED THE ANCHORING DEVICES CAN BE REMOVED FLUSH WITH THE ROADWAY SURFACE WHEN THE BARRIER IS REMOVED.

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

PLACEMENT OF TEMPORARY CONCRETE BARRIER

F.H.W.A. APPROVAL	3-26-2012 PLAN DATE	R-126-I	SHEET 3 OF 5



NOTES:

HARDWARE USED TO CONNECT THE SLOPED END SECTION TO TEMPORARY CONCRETE BARRIER MUST MEET THE REQUIREMENTS OF NCHRP 350 OR MASH (TEST LEVEL 3 OR HIGHER).

STIRRUP DETAILS PROVIDED FOR ILLUSTRATION PURPOSES. ACTUAL STIRRUP DETAILS WILL VARY BASED ON END SECTION SHAPE, DIMENSIONS, AND STIRRUP LOCATION.

STIRRUPS MUST BE DESIGNED TO PROVIDE A MINIMUM OF 2 INCHES OF CLEAR COVER FROM ANY LOCATION ON THE SURFACE OF THE END SECTION.

TEMPORARY CONCRETE BARRIER SLOPED END SECTION

STEEL REINFORCEMENT FOR TEMPORARY CONCRETE BARRIER SLOPED END SECTION

NOTE: #5 BARS SHALL BE USED FOR ALL STRAIGHT BARS AND STIRRUPS

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

PLACEMENT OF TEMPORARY CONCRETE BARRIER

F.H.W.A. APPROVAL	3-26-2012 PLAN DATE	R-126-I	SHEET 4 OF 5

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NOTES:

THE SEQUENCE OF BARRIER PLACEMENT SHALL BE IN THE DIRECTION OF TRAFFIC FLOW. BARRIER REMOVAL SHALL BE IN THE DIRECTION OPPOSITE TO TRAFFIC FLOW.

TEMPORARY PORTABLE BARRIER END SECTION SHALL BE USED TO TERMINATE BARRIER ENDS SUBJECT TO APPROACH TRAFFIC, EXCEPT WHEN THE BARRIER IS OTHERWISE ATTENUATED OR TERMINATED BEHIND GUARDRAIL.

DETAIL 2 WILL BE USED WHEN THERE IS NO EXISTING GUARDRAIL OR BARRIER AVAILABLE AS SPECIFIED IN DETAILS 3 OR 4.

THE LOCATION OF THE HIGH INTENSITY LIGHT, TYPE B (FLASHING) SPECIFIED IN DETAIL 1, SHALL APPLY TO DETAILS 2, 3, 4, AND 5. ALSO THE HIGH INTENSITY LIGHT, TYPE B SHALL BE FASTENED ON THE TOP OF THE BARRIER.

THE BARRIER FLARE RATE SHALL BE AT LEAST 6′ OF RUN FOR EVERY FOOT OF OFFSET.

EXACT LATERAL PLACEMENT OF BARRIER MUST BE SPECIFIED ON THE PLANS OR IN THE PROPOSAL. BARRIER POSITION SPECIFIED IS DESIRABLE WHEN WORK AREA INVOLVES THE FULL WIDTH OF THE CLOSED LANE. WHEN PARTIAL LANE WORK IS INVOLVED, OR SHOULDER WORK ONLY, BARRIER SHOULD BE SET INSIDE CLOSED LANE, AS ALLOWED BY WORK AREA, WITH 2′ OR MORE OFFSET DESIRABLE TO LANE LINE.

IN DETAIL 3, EXISTING GUARDRAIL POSTS ARE REMOVED TO FACILITATE PLACING OF TEMPORARY BARRIER BEHIND THE GUARDRAIL. THE DEGREE OF THE BARRIER DEPARTURE ANGLE WILL DETERMINE THE AMOUNT OF BEAM GUARDRAIL AND THE NUMBER OF POSTS TO BE REMOVED.

THE HIGH INTENSITY LIGHT, TYPE B SHALL BE OMITTED WHERE TWO-WAY TRAFFIC IS MAINTAINED ON ONE LANE AND IS CONTROLLED BY TRAFFIC SIGNALS.

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

F.H.W.A. APPROVAL	PLAN DATE		SHEET OF

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

PLACEMENT OF TEMPORARY CONCRETE BARRIER

F.H.W.A. APPROVAL	PLAN DATE	R-126-I	SHEET
	3-26-2012		5 OF 5

AS-LET PLAN REVISIONS

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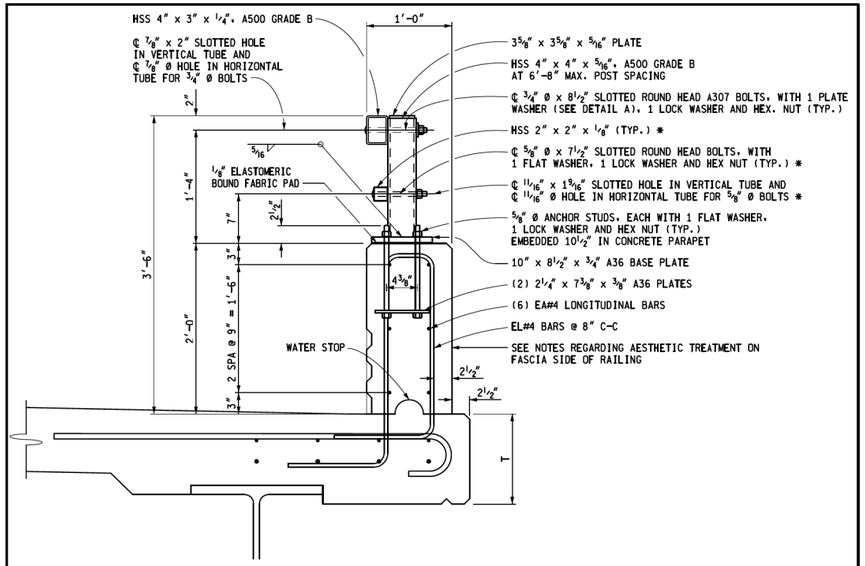


FLUSH MOUNT BRIDGE RAILING

NOTES:

ALL WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

DETAILS SHOWN ARE IN ACCORDANCE WITH CURRENT AASHTO SPECIFICATIONS.

BRIDGE RAILING USED WITH SIDEWALK SHALL BE USED ONLY WITH THE SIDEWALK CONFIGURATION (PROFILE) SHOWN ON THIS STANDARD PLAN.

NO SLIP FORMING OF "BRIDGE RAILING, AESTHETIC PARAPET TUBE" SHALL BE ALLOWED. RAILING SHALL BE CAST IN PLACE.

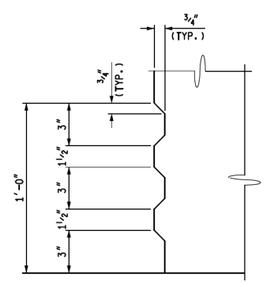
THE LIGHT STANDARD ANCHOR BOLT ASSEMBLY IS INCLUDED IN THE BID ITEM "BRIDGE RAILING, AESTHETIC PARAPET TUBE". SEE STANDARD PLAN B-103-SERIES.

FOR LIGHT STANDARD ANCHOR BOLT ASSEMBLY DETAILS, IF BRIDGE RAILING, AESTHETIC PARAPET TUBE IS PLACED FLUSH ON THE BRIDGE DECK (WITHOUT SIDEWALK), THE LIGHTING CONDUIT SHALL NOT BE PLACED IN THE RAILING.

A RUBBED FINISH ON THE VERTICAL AND TOP CONCRETE SURFACES OF THE PARAPET RAILING IS REQUIRED.

AESTHETIC TREATMENT AS DETAILED ON THIS SHEET SHALL BE ADDED TO THE FASCIA SIDE OF RAILING IF NO AESTHETIC TREATMENT IS DETAILED ON THE PLAN SHEETS AND SHALL BE INCLUDED IN THE BID ITEM "BRIDGE RAILING, AESTHETIC PARAPET TUBE". AESTHETIC TREATMENT DETAILED ON THE PLAN SHEETS MAY BE UP TO 1″ IN CONCRETE DEPTH WITHOUT MODIFICATION TO THE RAILING WIDTH AND SHALL BE INCLUDED IN THE BID ITEM "BRIDGE RAILING, AESTHETIC PARAPET TUBE". AESTHETIC TREATMENT REQUIRING ADDITIONAL RAILING WIDTH OR THE USE OF ELASTOMERIC FORM LINERS SHALL BE PAID FOR SEPARATELY.

* THE HSS 2″ x 2″ x 1/8″ RAIL, SLOTTED HOLE, AND 5/8″ BOLT ARE NOT REQUIRED WHEN RAILING IS USED IN COMBINATION WITH PEDESTRIAN FENCING (SEE STANDARD PLAN B-41-SERIES).



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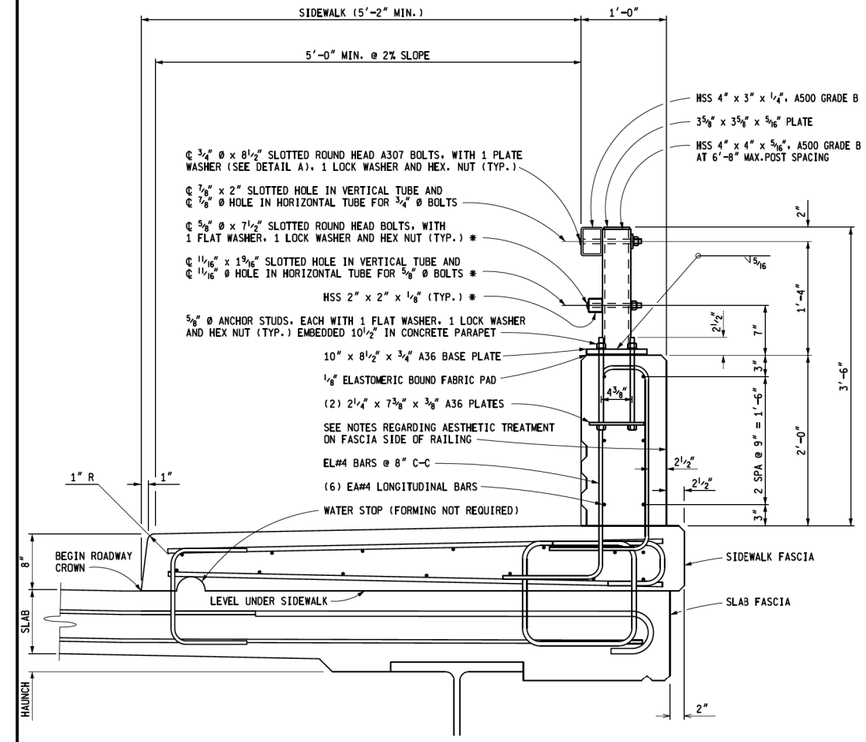

BRIDGE RAILING WITH SIDEWALK

MDOT Michigan Department of Transportation

PREPARED BY DESIGN DIVISION

DRAWN BY: B.L.T.

CHECKED BY: V.Z.

DEPARTMENT DIRECTOR
Kirk T. Steudle

APPROVED BY: _____
DIRECTOR, BUREAU OF FIELD SERVICES

APPROVED BY: _____
DIRECTOR, BUREAU OF HIGHWAY DEVELOPMENT

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

BRIDGE RAILING, AESTHETIC PARAPET TUBE

F.H.W.A. APPROVAL	11-27-2013 PLAN DATE	B-25-H	SHEET 1 OF 6

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

BRIDGE RAILING, AESTHETIC PARAPET TUBE

F.H.W.A. APPROVAL	11-27-2013 PLAN DATE	B-25-H	SHEET 2 OF 6

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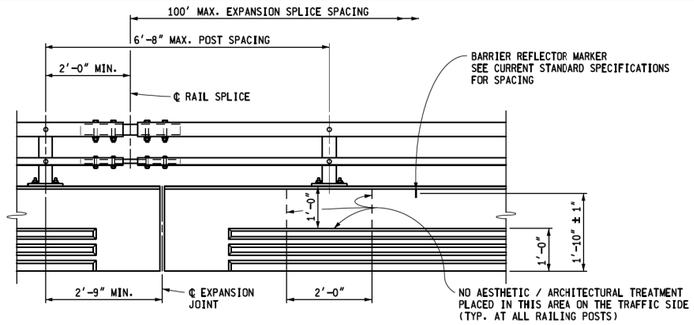
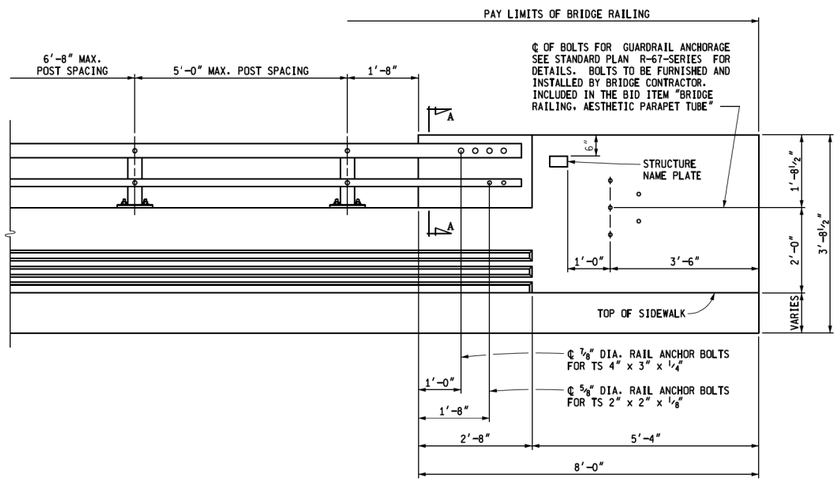
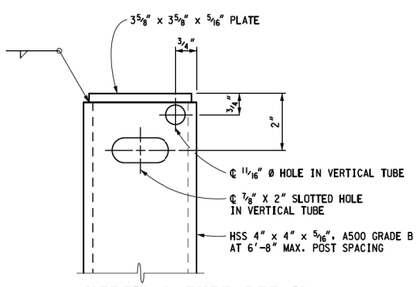


RAILING ELEVATION



END WALL ELEVATION

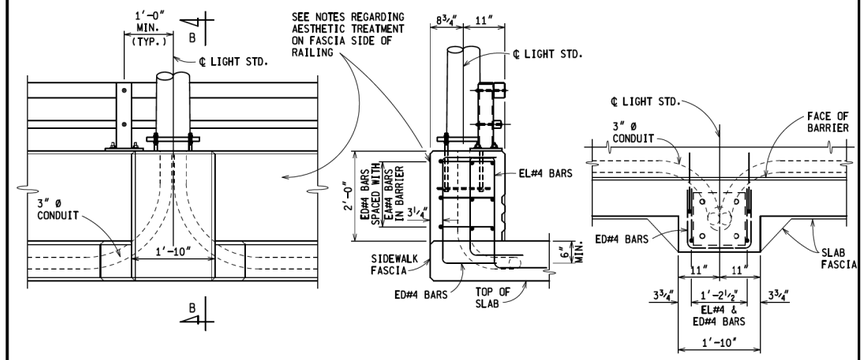


VERTICAL TUBE DETAIL
FRONT VIEW

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

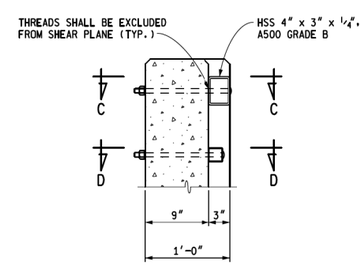
BRIDGE RAILING, AESTHETIC PARAPET TUBE

F.H.W.A. APPROVAL	11-27-2013 PLAN DATE	B-25-H	SHEET 3 OF 6



ELEVATION VIEW SECTION B-B PLAN VIEW

LIGHT STANDARD DETAILS



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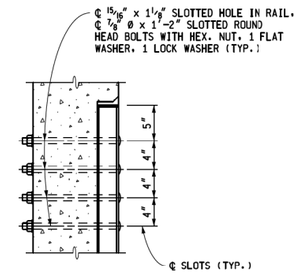

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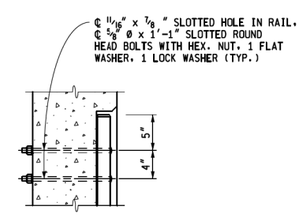

SECTION D-D

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BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

BRIDGE RAILING, AESTHETIC PARAPET TUBE

F.H.W.A. APPROVAL	11-27-2013 PLAN DATE	B-25-H	SHEET 4 OF 6

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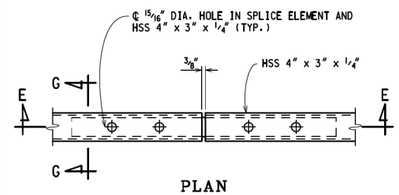
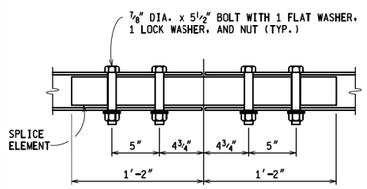


PLAN
HSS 4" x 3" x 1/4"



SECTION E-E
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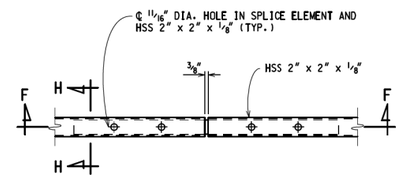

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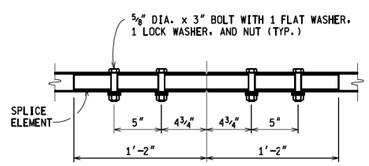

SECTION F-F
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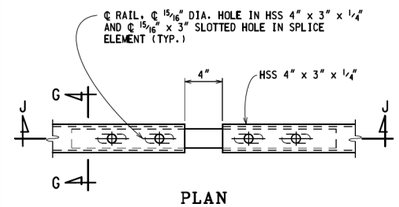
FIXED SPLICE DETAILS



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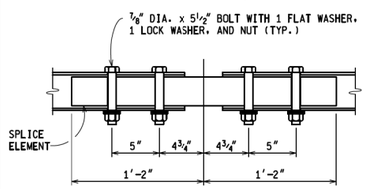

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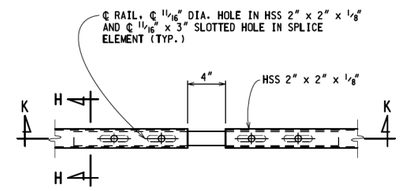

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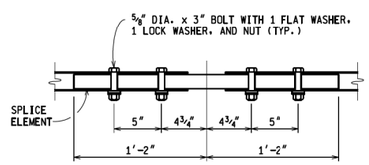

SECTION K-K
HSS 2" x 2" x 1/8"

EXPANSION SPLICE DETAILS

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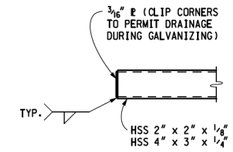
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

BRIDGE RAILING,
AESTHETIC PARAPET TUBE

F.H.W.A. APPROVAL	11-27-2013 PLAN DATE	B-25-H	SHEET 5 OF 6



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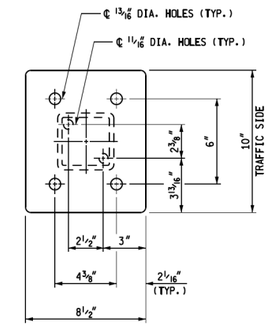

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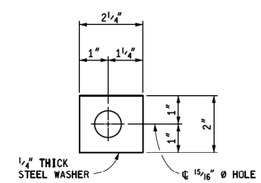
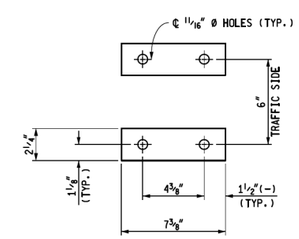
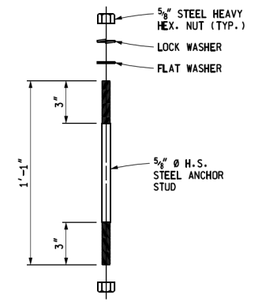


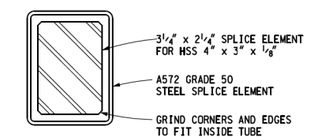
DETAIL A



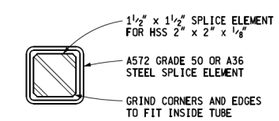
EMBEDDED ANCHOR STUD PLATES



ANCHOR STUD DETAIL



SECTION G-G



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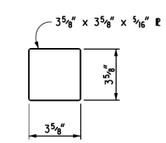

POST COVER PLATE

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

BRIDGE RAILING,
AESTHETIC PARAPET TUBE

F.H.W.A. APPROVAL	11-27-2013 PLAN DATE	B-25-H	SHEET 6 OF 6

AS-LET PLAN REVISIONS

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

MDOT Michigan Department of Transportation

VERT. (FT) 0
HORZ. (FT) 0

FILE:

DATE:
DESIGN UNIT:
TSC:

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DRAWING | SHEET

REV*	DATE	DESCRIPTION	BY

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