

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. 128087A
FEDERAL PROJECT NO. STP 1682 (225)
FEDERAL ITEM NO. HK 0863

PLANS FOR PROPOSED
ROSA PARKS BLVD OVER CP RAILROAD S.N. 12370
LAFAYETTE BLVD OVER CP RAILROAD S.N. 12363
BRIDGE CAPITAL PREVENTATIVE MAINTENANCE

INDEX OF SHEETS

BRIDGE PLANS

- 1 COVER SHEET
- 2 EXISTING PLAN (FOR INFORMATION ONLY)
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- 4 EXISTING PLAN (REM) - ROSA PARKS BLVD
- 5 EXISTING PLAN (REM) - PIN & HANGERS
- 6 TRAFFIC DETOUR PLAN 1
- 7 TRAFFIC DETOUR PLAN 2
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- 9 BRIDGE DECK REPAIR DETAILS
- 10 PIN & HANGER REPLACEMENT DETAILS
- 11 TEMPORARY SUPPORT DETAILS
- 12 EXPANSION JOINT DETAILS
- 13 QUANTITY SUMMARY/STEEL REINFORCING SCHEDULE

GENERAL NOTES

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 WORK COVERED BY THESE PLANS INCLUDES EXPANSION JOINT REPLACEMENT, PIN & HANGER REPLACEMENT, SIDEWALK RECONSTRUCTION, PATCHING CONCRETE ON THE EXISTING BRIDGE DECK AND PLACING A DECK SEALANT.

ESTIMATED TRAFFIC DISTRIBUTION	
AVERAGE DAILY TRAFFIC	3500 - ROSA PARKS BLVD 8000 - LAFAYETTE BLVD
FUTURE ADT (2035)	3500 - ROSA PARKS BLVD 8000 - LAFAYETTE BLVD
DESIGN HOURLY VOLUME	COMMERCIAL (3%)
POSTED SPEED	35 MPH
DESIGN SPEED	45 MPH

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

CONCRETE, GRADE D $f'_c = 4,000$ psi
STEEL REINFORCEMENT $f_y = 60,000$ psi

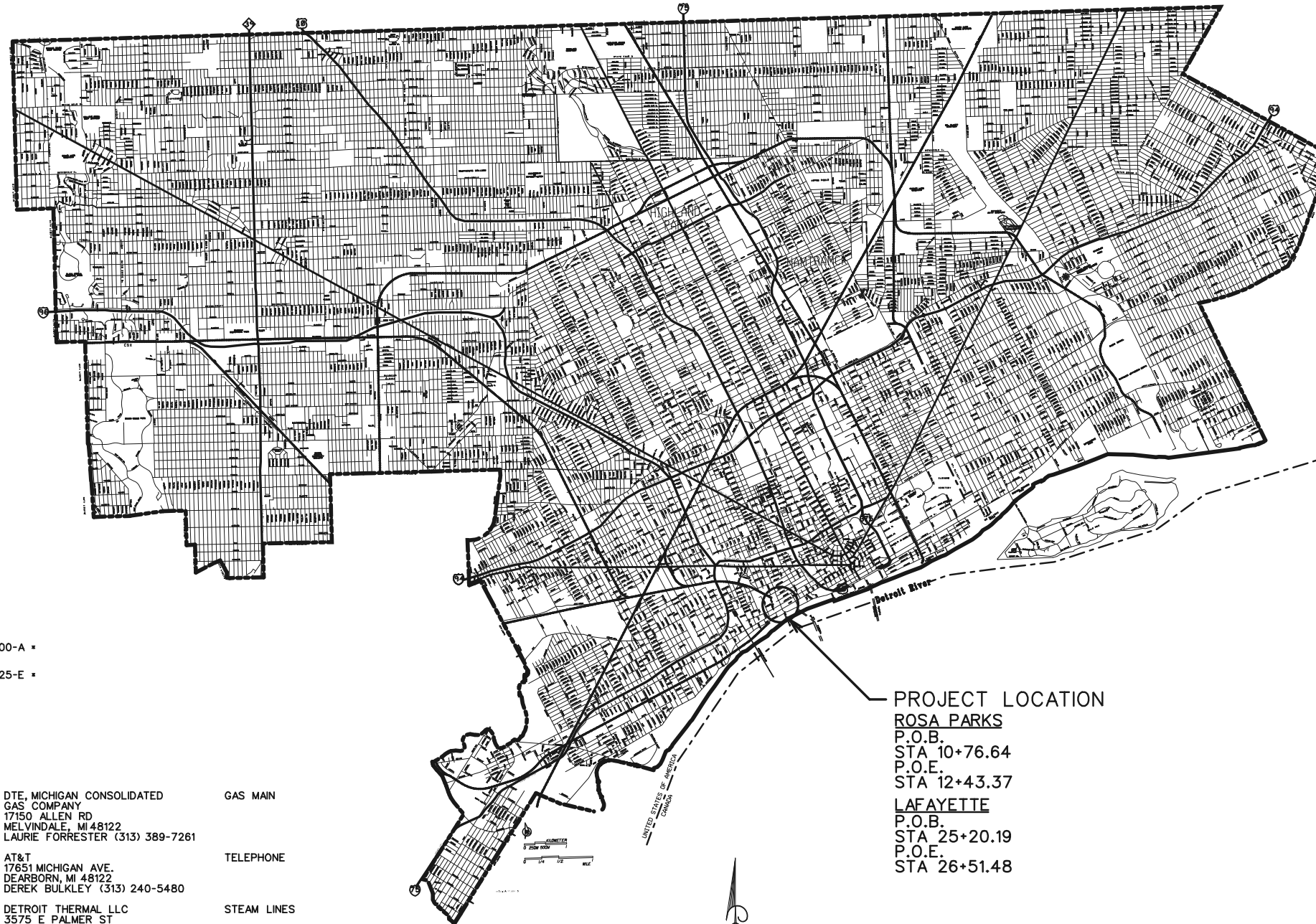
SYSTEMS FOR ANCHORING HORIZONTAL OR VERTICAL REINFORCEMENT IN EXISTING CONCRETE SHALL BE CHOSEN FROM THE QUALIFIED PRODUCTS LIST IN THE CURRENT MDOT MATERIALS SOURCE GUIDE.

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. CONTACT THE WADE TRIM PROJECT MANAGER, ROBERT BREEN, PE (734) 947-9700.

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

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



MDOT STANDARD PLANS (NOT TO BE PRINTED)

TITLE	PLAN NO.
SOIL EROSION & SEDIMENTATION CONTROL MEASURES	R-96-E
MOLDING, BEVEL, LIGHT STANDARD ANCHOR BOLT ASSEMBLY & NAME PLATE DETAILS	B-103-E

* SPECIAL DETAILS - INCLUDED IN PROPOSAL

TRAFFIC AND SAFETY STANDARD PLANS

WHEN 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 *

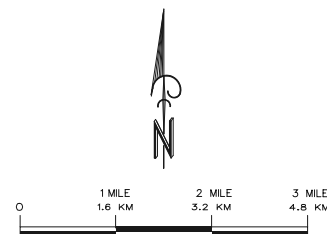
TEMPORARY TRAFFIC CONTROL DEVICES WZD-125-E *

UTILITY CONTACT INFORMATION

PUBLIC LIGHTING AUTHORITY OF DETROIT 65 CADILLAC SQUARE, SUITE 3100 DETROIT, MI 48226 MUKESH PATEL (313)-267-7606	STREET LIGHTING	DTE, MICHIGAN CONSOLIDATED GAS COMPANY 17150 ALLEN RD MELVINDALE, MI 48122 LAURIE FORRESTER (313) 389-7261	GAS MAIN
CITY OF DETROIT DWS J MADISON BLDG. 1420 WASHINGTON BLVD. DETROIT, MI 48226 GILBERT LEE (313) 764-9226	WATER MAINS & SEWERS	AT&T 17651 MICHIGAN AVE. DEARBORN, MI 48122 DEREK BULKLEY (313) 240-5480	TELEPHONE
CITY OF DETROIT TRAFFIC ENGINEERING, D.P.W. 2633 MICHIGAN AVENUE DETROIT, MI 48207 ASHOK PATEL (313) 224-1610	PAVEMENT MARKINGS, SIGNS & TRAFFIC SIGNALS	DETROIT THERMAL LLC 3575 E PALMER ST DETROIT, MI 48201 ED LAROSA (313) 921-1922	STEAM LINES
DTE, DETROIT EDISON ONE ENERGY PLAZA IGS GROUP, 518SB DETROIT, MI 48226 NICHOLAS CARLSON (313) 235-8731	ELECTRIC POWER	COMCAST CABLEVISION 25626 TELEGRAPH RD SOUTHFIELD, MI 48034 GLEN YOUNGLOVE (248) 809-2712	TV CABLE

PROJECT LOCATION

ROSA PARKS
P.O.B.
STA 10+76.64
P.O.E.
STA 12+43.37
LAFAYETTE
P.O.B.
STA 25+20.19
P.O.E.
STA 26+51.48



WADETRIM

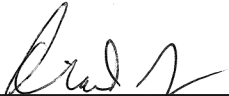
500 Griswold, Suite 2500
Detroit, MI 48226
313.961.3650
FAX: 313.961.0898
www.wadetrिम.com

Building relationships on a foundation of excellence.

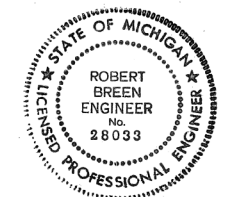
THE REGULATED WASTE ACTIVITY IDENTIFICATION NUMBERS FOR THIS PROJECT ARE AS FOLLOWS:
CONTROL SECTION NUMBER
STU 82457 MIK174435684


CONTRACT FOR CAPITAL PREVENTATIVE MAINTENANCE (CPM) WORK AT BRIDGES.

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

APPROVED BY  2/10/2016
CITY ENGINEER DATE

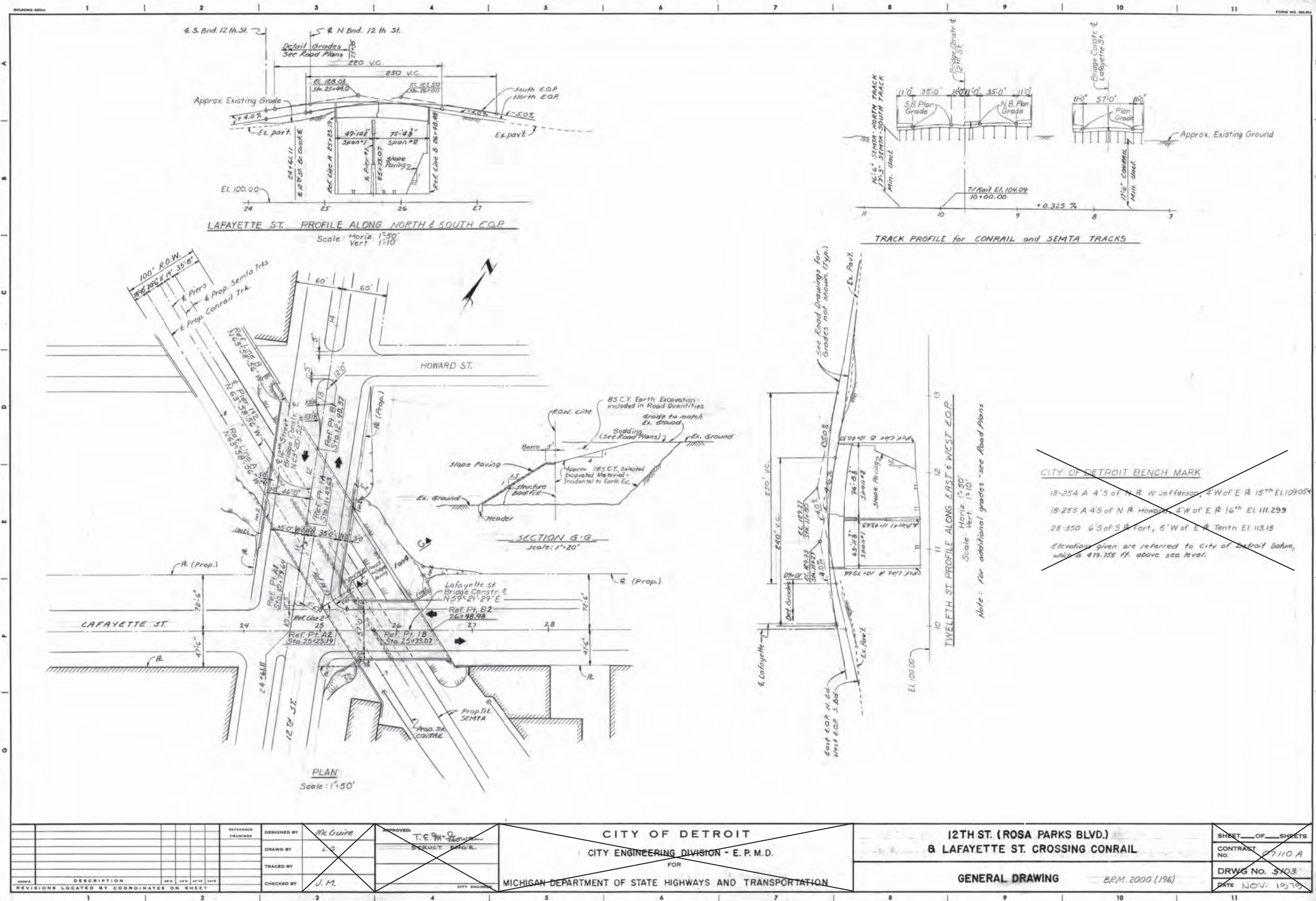
PREPARED UNDER THE SUPERVISION OF:



 6201028033 02-10-2016
ROBERT R. BREEN, PE LICENSE * DATE

JOB NO. SHEET
DTE 2025-19T 1 OF 13

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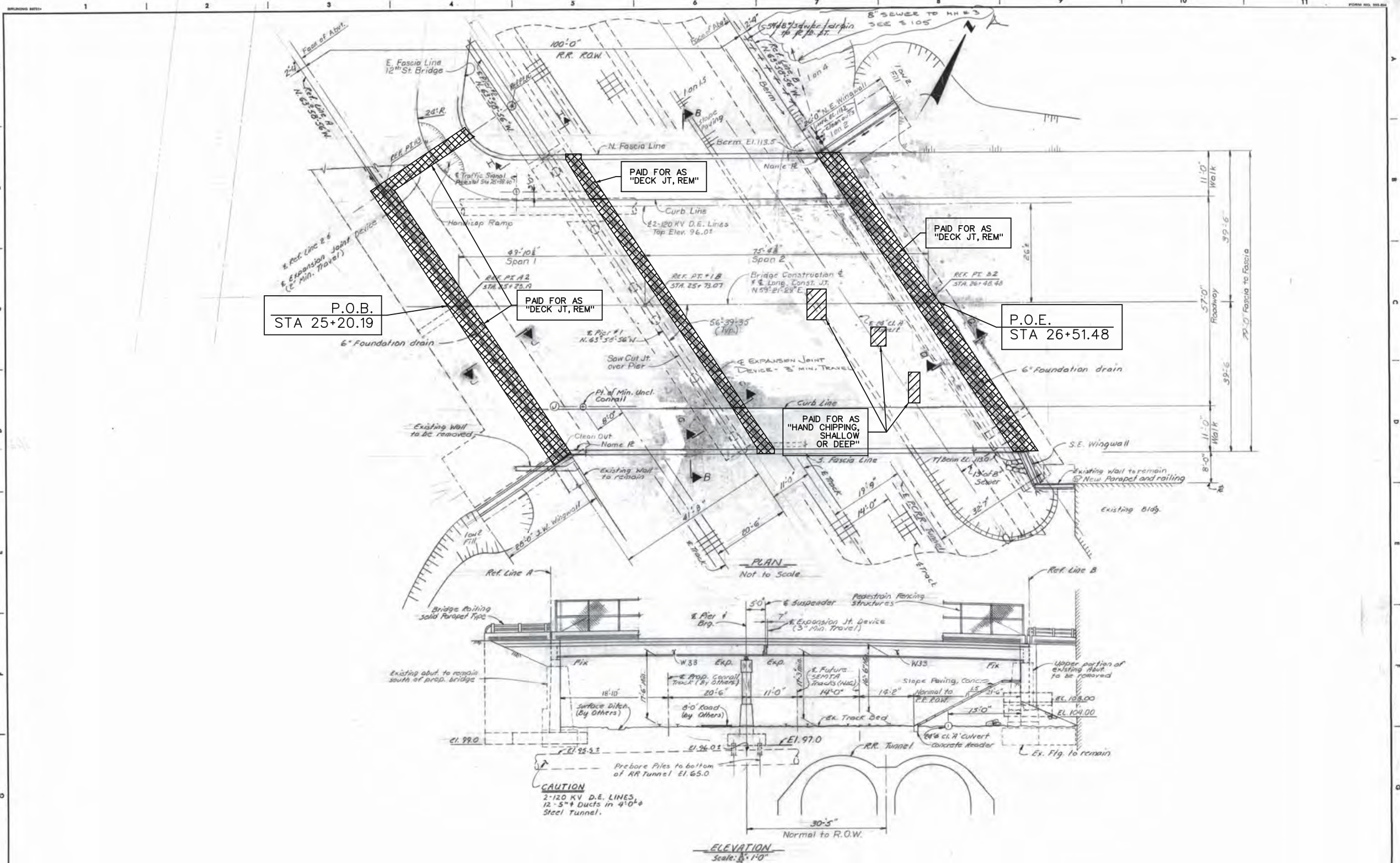


<table border="1"> <tr><td>DESIGNED BY</td><td>McGuire</td></tr> <tr><td>DRAWN BY</td><td>L.O.</td></tr> <tr><td>TRACED BY</td><td></td></tr> <tr><td>CHECKED BY</td><td>J.M.</td></tr> </table>	DESIGNED BY	McGuire	DRAWN BY	L.O.	TRACED BY		CHECKED BY	J.M.	<table border="1"> <tr><td>APPROVED</td><td>T.E.M.</td></tr> <tr><td>STRUCT. ENGR.</td><td></td></tr> </table>	APPROVED	T.E.M.	STRUCT. ENGR.		<p>CITY OF DETROIT CITY ENGINEERING DIVISION - E.P.M.D.</p> <p>FOR MICHIGAN DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION</p>	<p>12TH ST. (ROSA PARKS BLVD.) & LAFAYETTE ST. CROSSING CONRAIL</p> <p>GENERAL DRAWING — B.R.M. 2000 (196)</p>	<table border="1"> <tr><td>SHEET</td><td>OF</td><td>SHEETS</td></tr> <tr><td>CONTRACT</td><td>No.</td><td>7110 A</td></tr> <tr><td>DRWG</td><td>No.</td><td>5703</td></tr> <tr><td>DATE</td><td>NOV.</td><td>1979</td></tr> </table>	SHEET	OF	SHEETS	CONTRACT	No.	7110 A	DRWG	No.	5703	DATE	NOV.	1979
DESIGNED BY	McGuire																											
DRAWN BY	L.O.																											
TRACED BY																												
CHECKED BY	J.M.																											
APPROVED	T.E.M.																											
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SHEET	OF	SHEETS																										
CONTRACT	No.	7110 A																										
DRWG	No.	5703																										
DATE	NOV.	1979																										

JOB NO. 128087A
FOR INFORMATION ONLY
DO NOT WORK FROM THIS SHEET. THE INFORMATION SHOWN IS FOR REFERENCE ONLY. NO PAY ITEMS ARE SHOWN.

<p>NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED:</p> <p>WADETRIM 500 Grandview, Suite 2000 Livonia, MI 48150 313.961.3850 FAX: 313.961.2888 www.wadetrिम.com</p>	<p>CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERING DIVISION ROSA PARKS/LAFAYETTE BRIDGE CPM EXISTING PLAN (FOR INFORMATION ONLY)</p>	<table border="1"> <tr><td>ISSUED FOR:</td><td>DATE:</td><td>BY:</td></tr> <tr><td>JOB NO.</td><td>DTE 2025-19T</td><td></td></tr> <tr><td>SHEET</td><td>2</td><td></td></tr> </table>	ISSUED FOR:	DATE:	BY:	JOB NO.	DTE 2025-19T		SHEET	2	
ISSUED FOR:	DATE:	BY:									
JOB NO.	DTE 2025-19T										
SHEET	2										

PROJECT MANAGER: FIELD BOOK INFORMATION: PLOTTED 2/22/2016 10:27:06 AM BY: MISCALLS



DESIGNED BY: <i>Mc Guire</i> DRAWN BY: <i>J.S.</i> TRACED BY: CHECKED BY: <i>J.M.</i>		APPROVED: <i>T.E.M.</i> STRUCT. ENGR.		CITY OF DETROIT CITY ENGINEERS DIV. BRIDG.		12TH ST. (ROSA PARKS BLVD.) & LAFAYETTE ST. CROSSING CONRAIL BRM 2003 (196)		SHEET <u> </u> OF <u> </u> SHEETS CONTRACT NO. <u>1110A</u> DRWG NO. <u>5704</u> DATE <u>NOV 1979</u>	
GENERAL PLAN OF STRUCTURE - LAFAYETTE BLVD.									

NO.	DESCRIPTION	DATE	BY
A	BRIDGE DRAINAGE CHANGED	11/19	J.M.

REVISIONS LOCATED BY COORDINATES ON SHEET

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WADETRIM
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CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERING DIVISION
 ROSA PARKS/LAFAYETTE BRIDGE CPM
 EXISTING PLAN (REM) - LAFAYETTE BLVD

ISSUED FOR: DATE: BY:

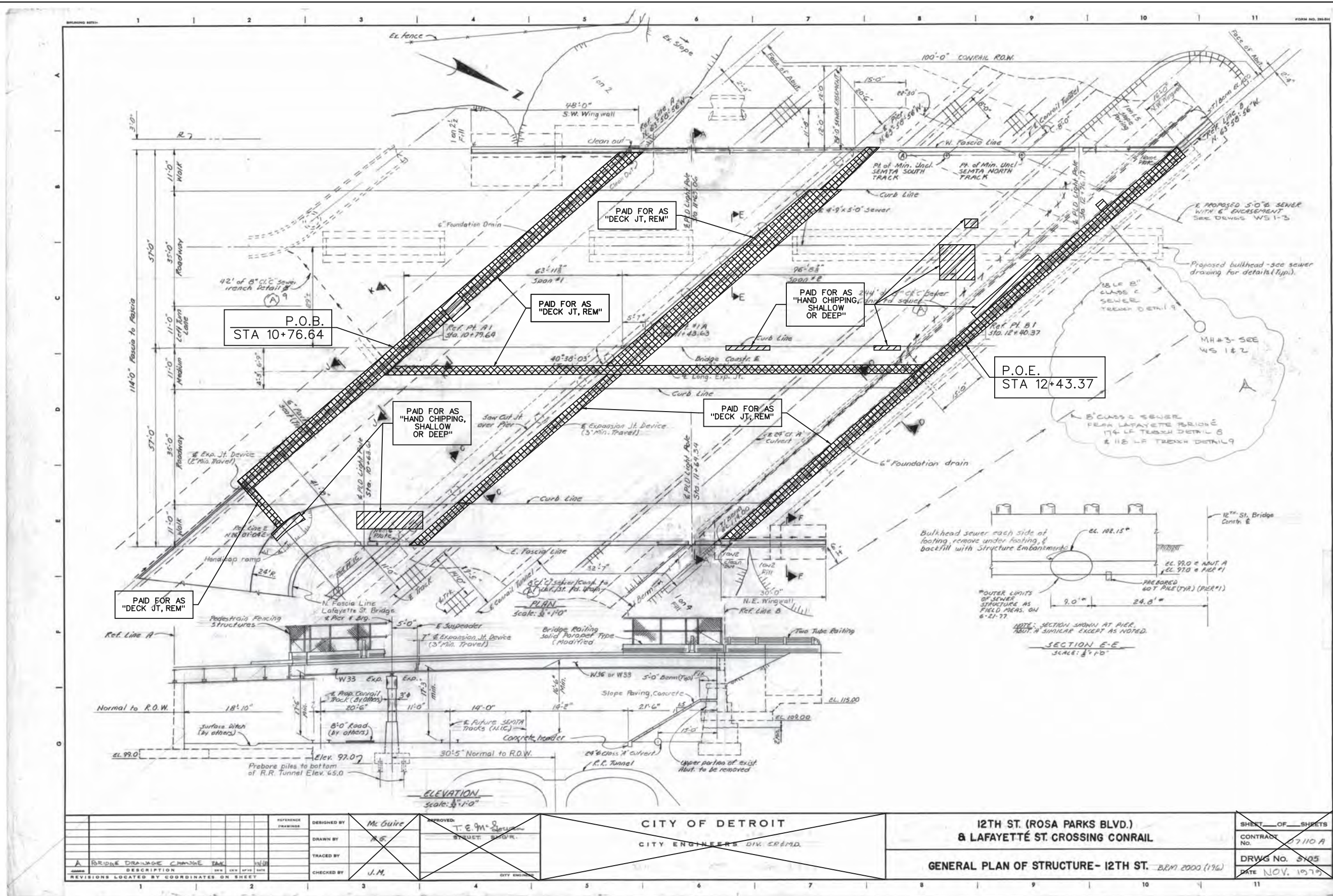
JOB NO. **DTE 2025-19T**

SHEET **3**

© Wade Trim Group, Inc. ROSA PARKS/LAFAYETTE OVER CN RR BRIDGE CPM

JOB NO. 128087A
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NO.	DESCRIPTION	DATE
1	BRIDGE DRAINAGE CHANGE	11/10/15

DESIGNED BY	McGuire
DRAWN BY	R.E.
TRACED BY	
CHECKED BY	J.M.

APPROVED	T.E.M.
SHEET NO.	2025-19T
CITY ENGINEER	

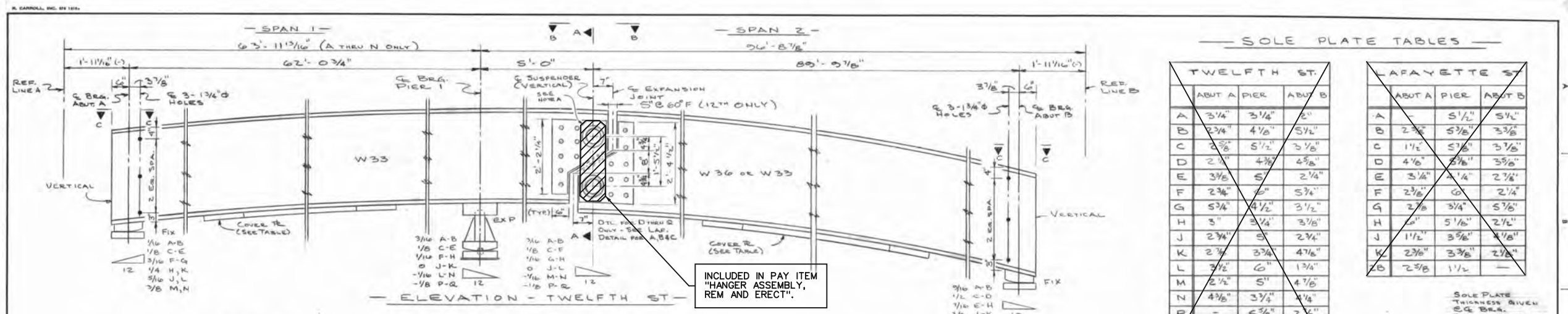
CITY OF DETROIT
CITY ENGINEERS DIV. SR&MD

12TH ST. (ROSA PARKS BLVD.)
& LAFAYETTE ST. CROSSING CONRAIL
GENERAL PLAN OF STRUCTURE- 12TH ST. BRM 2000 (196)

SHEET	OF	SHEETS
CONTRACT	No.	7.110 A
DRWG NO.		3105
DATE		NOV. 1979

JOB NO. 128087A
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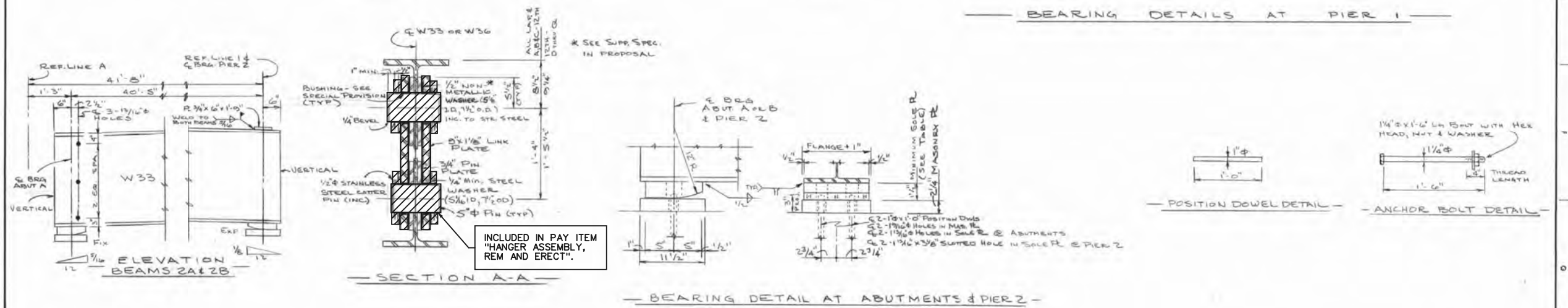
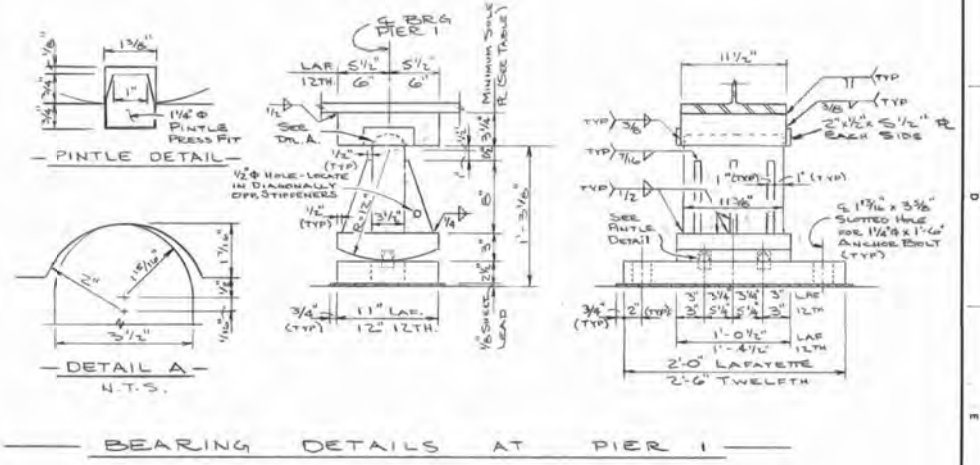
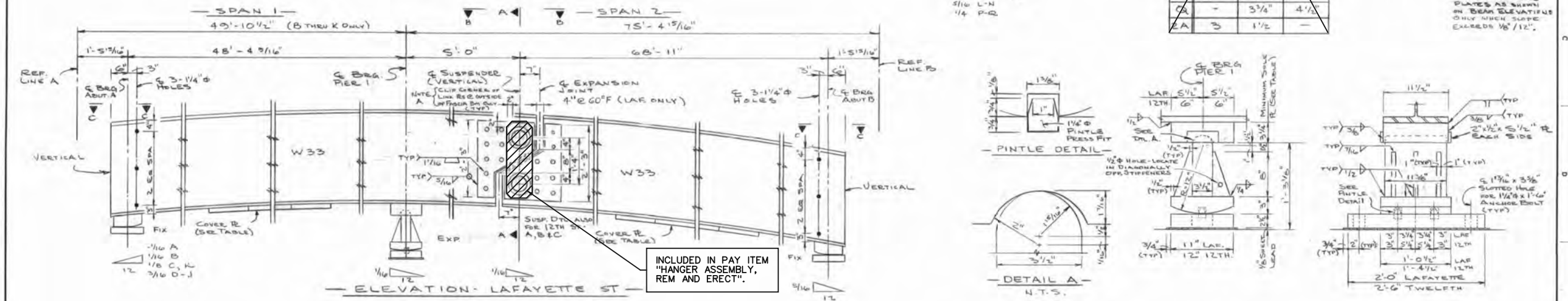
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CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERING DIVISION ROSA PARKS/LAFAYETTE BRIDGE CPM EXISTING PLAN (REM) - ROSA PARKS BLVD	
ISSUED FOR: DATE: BY:	
JOB NO. DTE 2025-19T	
SHEET	4
DESCRIPTION	DATE



SOLE PLATE TABLES

TWELFTH ST.				LAFAYETTE ST.		
	ABUT A PIER	ABUT B		ABUT A PIER	ABUT B	
A	3/4"	3/4"	2"	A	5/16"	5/16"
B	2 3/4"	4 1/8"	5 1/2"	B	2 3/8"	3 3/8"
C	2 3/8"	5 1/2"	3 1/8"	C	1 1/2"	3 1/8"
D	2 1/8"	4 3/8"	4 5/8"	D	4 1/8"	3 5/8"
E	3 3/8"	5"	2 1/4"	E	3 1/8"	1 1/4"
F	2 3/4"	5"	5 3/4"	F	2 3/8"	2 1/4"
G	5 3/4"	4 1/2"	3 1/2"	G	2 3/8"	3 1/8"
H	3"	3 3/4"	3 3/8"	H	3"	5 1/8"
J	2 3/4"	5"	2 3/4"	J	1 1/2"	3 5/8"
K	2 3/8"	3 3/8"	4 7/8"	K	2 3/8"	3 3/8"
L	3 1/2"	6"	1 3/4"	L	2 3/8"	2 3/8"
M	2 1/4"	5"	4 1/8"	M	2 3/8"	1 1/2"
N	4 3/8"	3 3/4"	1 3/4"			
P	-	5 3/8"	2 1/8"			
Q	-	3 1/4"	4 1/8"			
A	3	1 1/2"	-			

SOLE PLATE THICKNESS GIVEN IN COL. BEAR. DEVELOP THE SOLE PLATES AS SHOWN ON BEAR ELEVATIONS ONLY WHEN SOLE EXCEEDS 1/8" / 12".



DESIGNED BY	APPROVED	<p>CITY OF DETROIT CITY ENGINEERING DIVISION - EPMD</p> <p>FOR</p> <p>MICHIGAN DEPT. OF STATE HIGHWAYS & TRANS.</p>	<p>12TH ST (ROSA PARKS BLVD.) & LAFAYETTE ST CROSSING CONRAIL</p> <p>STRUCTURAL STEEL - ELEVATIONS, BEARINGS & DETAILS</p>	SHEET	OF	SHEETS
DRAWN BY				CONTRACT	NO.	110A
TRACED BY				DRAWING	NO.	S-104
CHECKED BY				DATE	NOV 1979	

JOB NO. 128087A

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CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION
ROSA PARKS/LAFAYETTE BRIDGE CPM
EXISTING PLAN (REM) - PIN & HANGERS

ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-19T

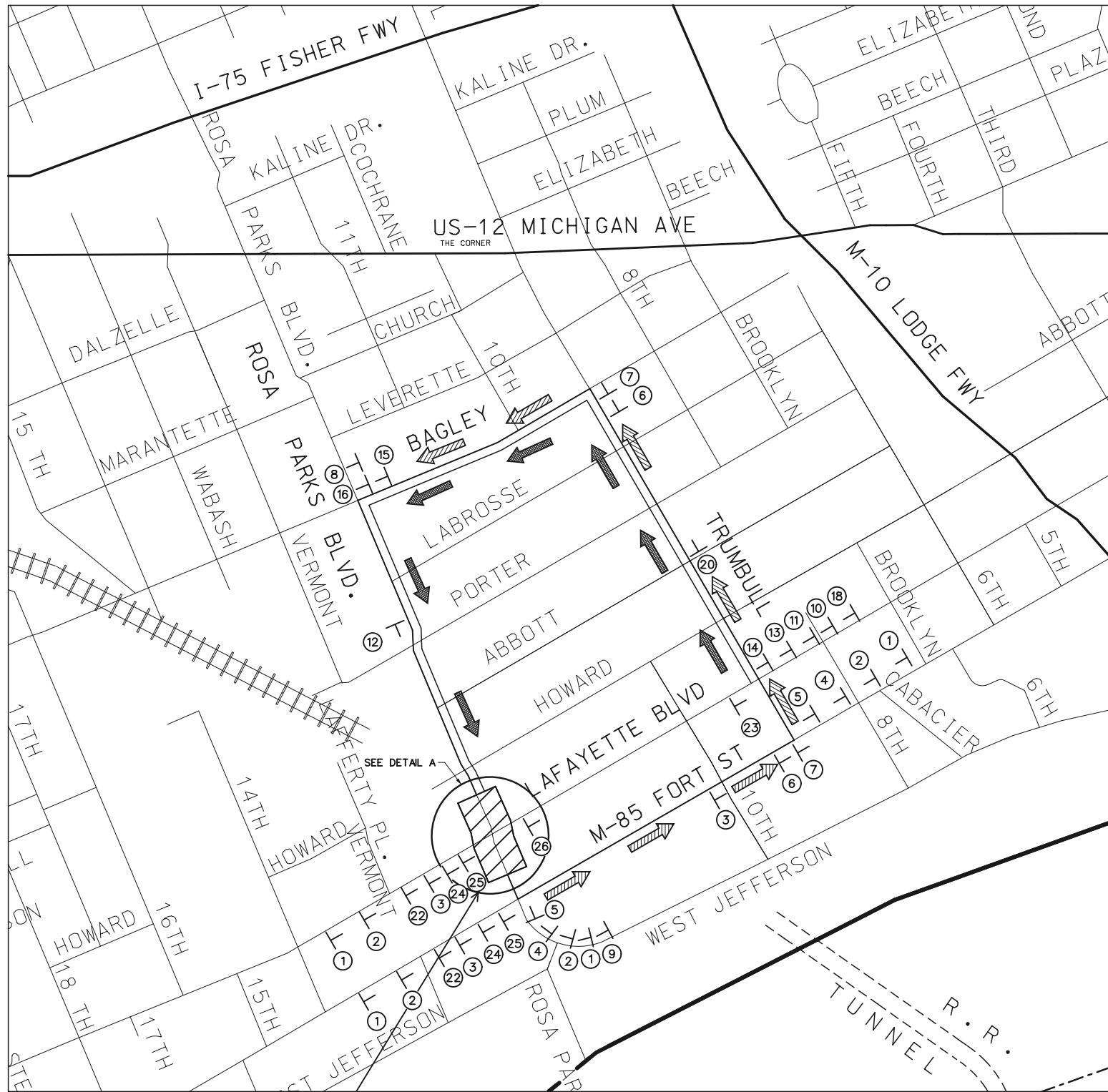
SHEET 5

REVISIONS LOCATED BY COORDINATES ON SHEET

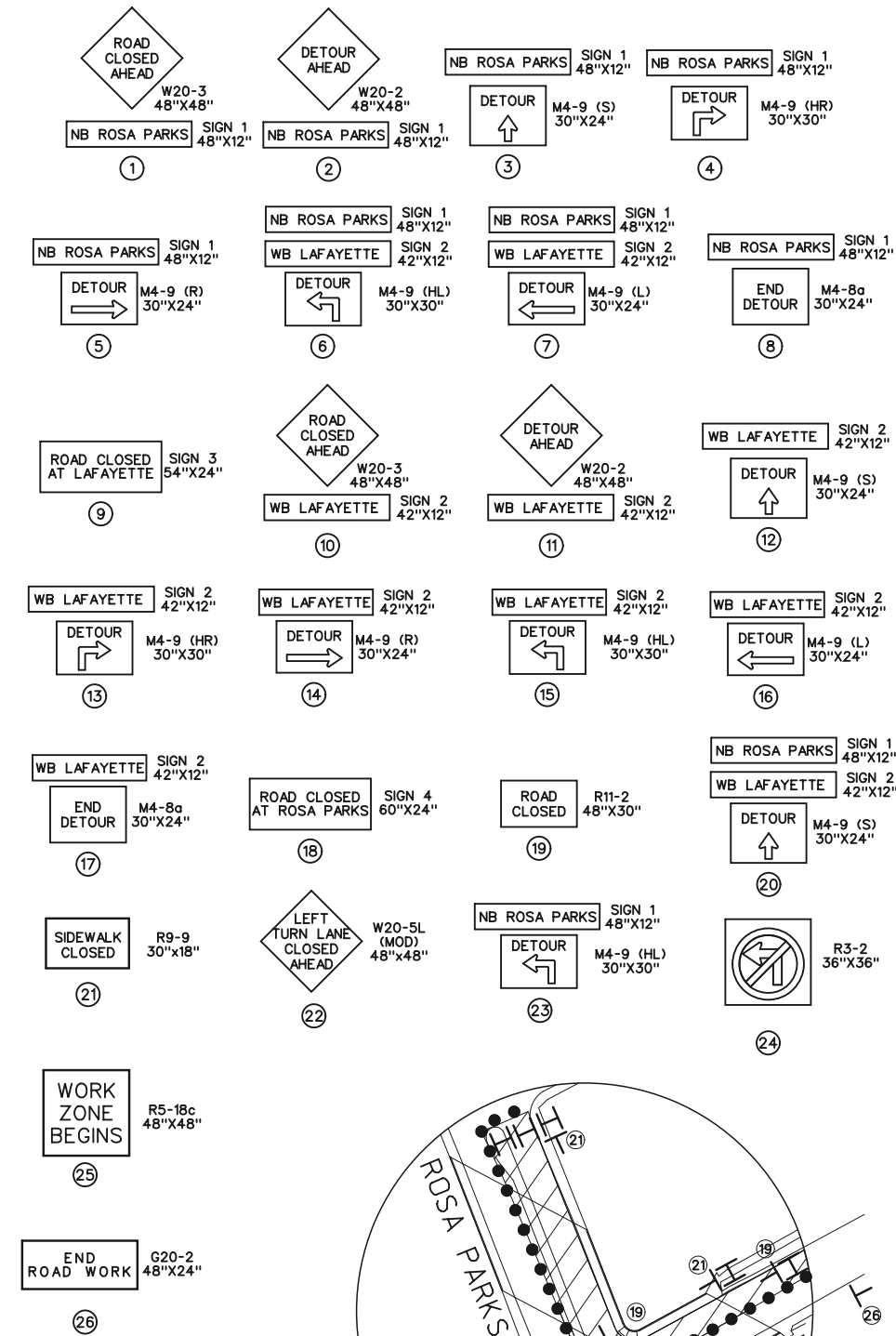
PROJECT MANAGER: FIELD BOOK INFORMATION: PLOTTED 2/22/2016 10:27:25 AM BY: Mincolls

PROJECT: ROSA PARKS/LAFAYETTE OVER ON RR BRIDGE CPM

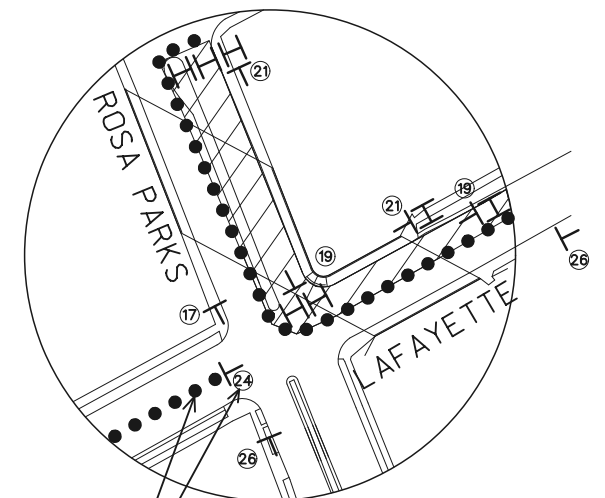
PROJECT MANAGER: J05586943.CSP-PL15-DetourPlan.dgn
 FIELD BOOK INFORMATION: PLOTTED 2/22/2016 10:27:56 AM BY: Micolle



REFER TO DETAIL A FOR LEFT TURN LANE CLOSURE AT FORT ST. NB ROSA PARKS BLVD & WB LAFAYETTE BLVD
DETOUR PLAN - PHASE I



- LEGEND**
- WORK ZONE
 - TRAFFIC SIGN
 - TYPE III BARRICADE (DOUBLE SIDED)
 - DETOUR ROUTE - NB ROSA PARKS BLVD
 - DETOUR ROUTE - WB LAFAYETTE BLVD
 - SIGN CLUSTER NUMBER
 - PLASTIC DRUM



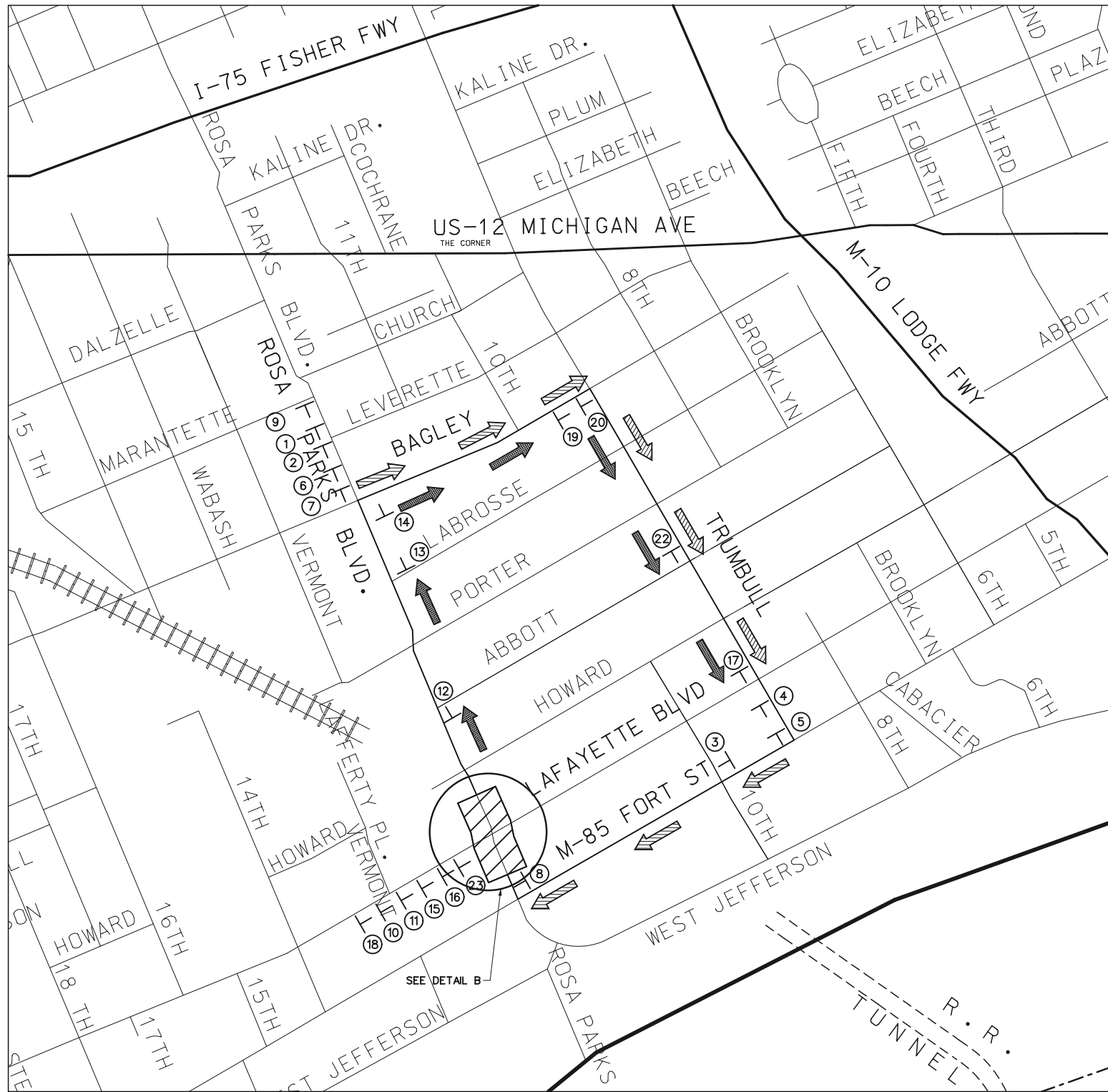
DETAIL A
 PLACE DRUMS TO CLOSE EB LEFT TURN LANES ON LAFAYETTE AND M-85 (FORT ST) AT ROSA PARKS. PLACE SIGN 24 IN THE LEFT TURN LANE.

SEE SHEET 8 FOR QUANTITIES

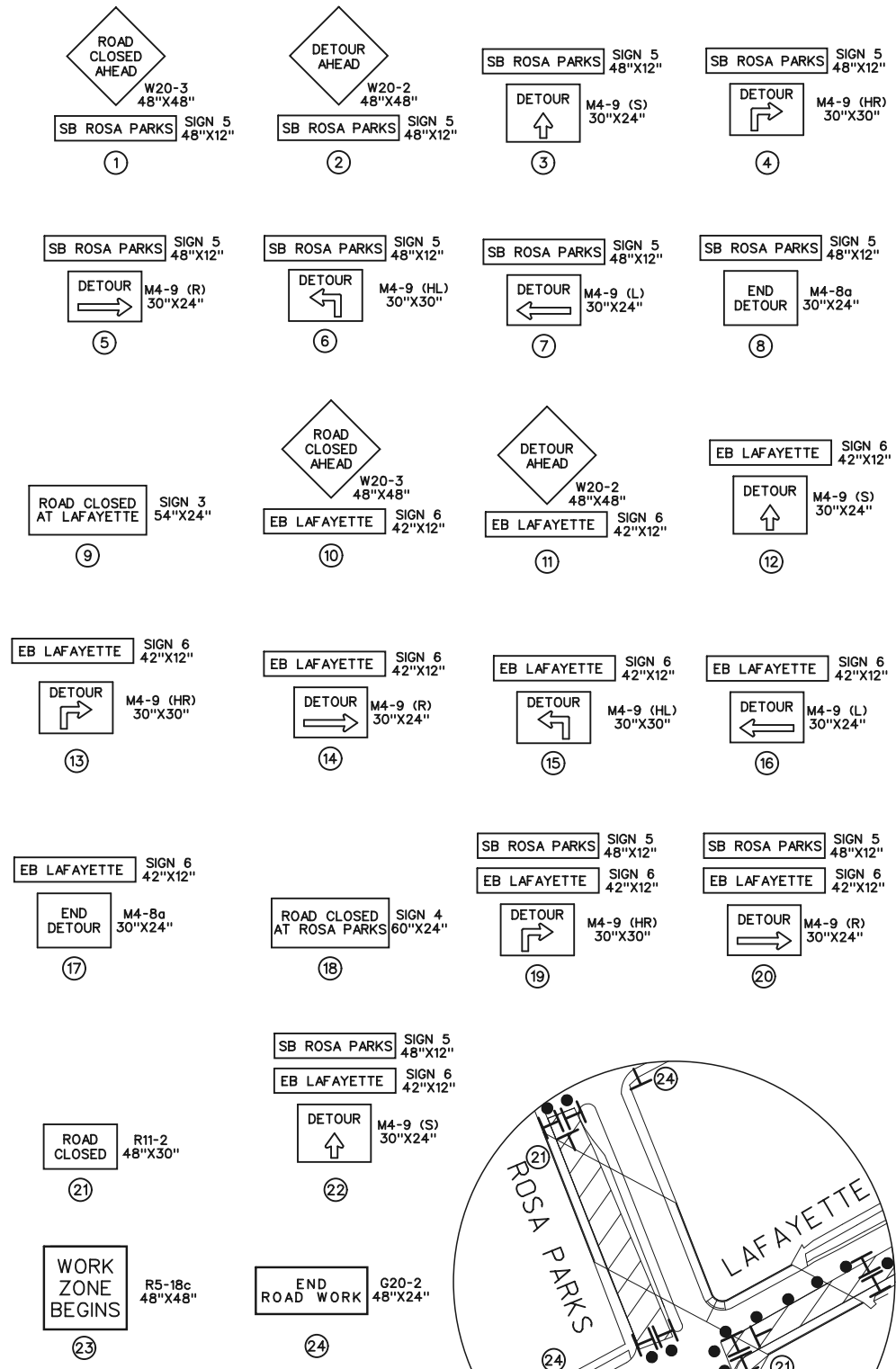
<p>WADETRIM 500 Griswold, Suite 2000 Detroit, MI 48226 313.961.3850 FAX: 313.961.0888 www.wadetrिम.com</p>	<p>CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERING DIVISION ROSA PARKS/LAFAYETTE BRIDGE CPM TRAFFIC DETOUR PLAN 1</p>
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1/13/16 REVISE SIGNING PER MDOT	DATE
RRB	BY
ISSUED FOR: DATE: BY: MDOT PERMIT 1/13/16 RRB	JOB NO. DTE 2025-19T
SHEET	6

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PROJECT MANAGER: FIELD BOOK INFORMATION: PLOTTED 2/22/2016 10:27:57 AM BY: Micolle

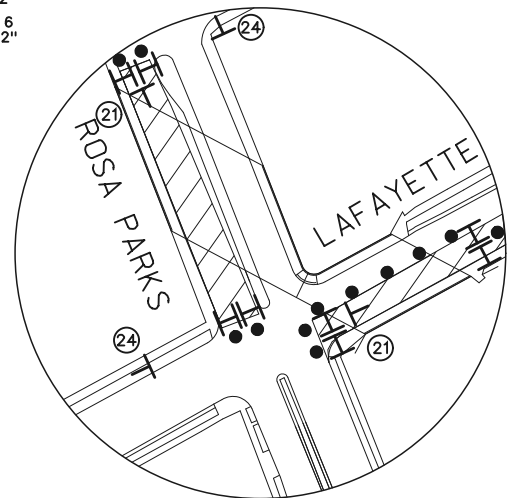


SB ROSA PARKS BLVD & EB LAFAYETTE BLVD
DETOUR PLAN - PHASE II



LEGEND

- WORK ZONE
- TRAFFIC SIGN
- TYPE III BARRICADE (DOUBLE SIDED)
- DETOUR ROUTE - SB ROSA PARKS BLVD
- DETOUR ROUTE - EB LAFAYETTE BLVD
- SIGN CLUSTER NUMBER
- PLASTIC DRUM



DETAIL B

SEE SHEET 8 FOR QUANTITIES

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<p>ISSUED FOR: DATE: BY: MDOT PERMIT 1/13/16 RRB</p>	<p>JOB NO. DTE 2025-19T</p>
<p>SHEET</p>	<p>7</p>

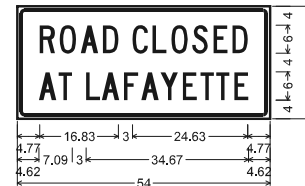


D3-1:
 1.50" Radius, 0.75" Border, 0.50" Indent, Black on Orange;
 [NB] C 50% spacing;
 [ROSA] C 50% spacing;
 [PARKS] C 50% spacing;
 Table of widths and spaces.

N	B
3.70	2.73
R	0.53
3.00	2.73
R	2.74
0	0.42
2.89	0.42
S	2.74
0.42	0.42
A	3.13
3.13	
P	A
3.00	2.73
0.42	3.13
0.42	2.73
0.53	K
2.73	0.43
S	2.73
3.70	

SIGN 1 DETAIL

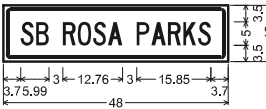
D3-1



1.50" Radius, 0.75" Border, 0.50" Indent, Black on Orange;
 [ROAD] C; [CLOSED] C; [AT] C; [LAFAYETTE] C;
 Table of widths and spaces.

R	O	A	D
4.77	3.29	1.01	3.47
3.00	3.28	1.01	3.00
3.00	3.28	1.01	3.00
1.01	3.47	1.01	3.75
1.01	3.75	1.01	3.29
1.02	S	E	D
3.28	1.26	3.00	1.01
1.26	3.00	1.01	3.29
4.77			
A	T		
4.62	3.75	0.34	3.00
3.00	3.00	0.34	3.75
1.01	3.00	0.68	3.75
0.68	3.75	0.34	3.75
1.02	3.00	0.68	3.00
0.68	3.00	0.34	3.00
1.01	3.00	1.01	3.00
4.77			

SIGN 3 DETAIL



D3-1:
 1.50" Radius, 0.75" Border, 0.50" Indent, Black on Orange;
 [SB] C 50% spacing;
 [ROSA] C 50% spacing;
 [PARKS] C 50% spacing;
 Table of widths and spaces.

S	B
3.70	2.73
R	0.53
3.00	2.73
R	2.74
0	0.42
2.89	0.42
S	2.74
0.42	0.42
A	3.13
3.13	
P	A
3.00	2.73
0.42	3.13
0.42	2.73
0.53	K
2.73	0.43
S	2.73
3.70	

SIGN 5 DETAIL

D3-1

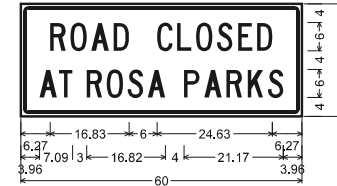


D3-1:
 1.50" Radius, 0.75" Border, 0.50" Indent, Black on Orange;
 [WB] C 50% spacing;
 [LAFAYETTE] C 50% spacing;
 Table of widths and spaces.

W	B
2.73	3.75
0.42	2.74
3.00	2.50
0.14	A
3.12	0.43
2.50	0.28
3.12	0.15
0.15	3.12
0.42	2.50
0.29	2.50
2.50	0.14
0.14	2.50
0.42	2.50
2.50	2.73

SIGN 2 DETAIL

D3-1



1.50" Radius, 0.75" Border, 0.50" Indent, Black on Orange;
 [ROAD CLOSED] C; [AT] C; [ROSA] C; [PARKS] C;
 Table of widths and spaces.

R	O	A	D
6.27	3.29	1.01	3.47
3.00	3.28	1.01	3.00
3.00	3.28	1.01	3.00
1.01	3.47	1.01	3.75
1.01	3.75	1.01	3.29
1.02	S	E	D
3.28	1.26	3.00	1.01
1.26	3.00	1.01	3.29
6.27			
A	T		
3.96	3.75	0.34	3.00
3.00	3.28	1.01	3.47
1.01	3.00	0.68	3.75
0.68	3.75	0.34	3.75
1.02	3.00	0.68	3.00
0.68	3.00	0.34	3.00
1.01	3.00	1.01	3.00
4.77			

SIGN 4 DETAIL



D3-1:
 1.50" Radius, 0.75" Border, 0.50" Indent, Black on Orange;
 [EB] C 50% spacing;
 [LAFAYETTE] C 50% spacing;
 Table of widths and spaces.

E	B
3.36	2.50
0.42	2.73
3.00	2.50
0.14	A
3.13	0.42
2.50	0.28
3.13	0.14
0.14	3.13
0.42	2.50
0.28	2.50
2.50	0.14
0.14	2.50
0.42	2.50
3.36	

SIGN 6 DETAIL

D3-1

NOTES:

1. ALL TEMPORARY CONSTRUCTION TRAFFIC APPURTENANCES, SUCH AS BARRICADES, NECESSARY FOR CONSTRUCTION SHALL CONFORM TO THE 2011 MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. ALL TEMPORARY CONSTRUCTION APPURTENANCES SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. EXISTING SIGNS IN CONFLICT WITH THE 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 10 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION OR ANY ROAD CLOSURES.
4. LOCAL STREETS ADJACENT TO THE CONSTRUCTION AREA SHALL NOT BE USED BY THE CONTRACTOR FOR EQUIPMENT AND MATERIAL STORAGE.
5. PLACE ALL CONSTRUCTION SIGNS USED AT TYPE III BARRICADES ON THEIR OWN SUPPORT AND BEHIND AND ABOVE THE BARRICADES.
6. ALL D3-1 SIGNS SHOULD BE FABRICATED ON ORANGE REFLECTIVE BACKGROUND WITH BLACK NON-REFLECTIVE LEGEND AND BORDER.
7. THE CONTRACTOR SHALL NOTIFY RESIDENTS IN WRITING A MINIMUM OF TEN WORKING DAYS PRIOR TO PAVEMENT REMOVAL OR ANY PLANNED CONSTRUCTION THAT MAY LIMIT OR TEMPORARILY ELIMINATE ACCESS TO RESIDENTIAL PROPERTY.
8. ALL CONSTRUCTION ACTIVITIES SHALL TAKE PLACE BETWEEN THE HOURS OF 7:00 AM AND 7:00 PM 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 PM AND 7:00 AM. THE CONTRACTOR MAY REQUEST AN EXTENSION OF WORK HOURS. ANY EXTENSION OF WORK HOURS IS AT THE DISCRETION OF THE CITY OF DETROIT.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE CITY OF DETROIT TO ALLOW RUBBISH COLLECTION DURING CONSTRUCTION ACTIVITIES.

MISCELLANEOUS QUANTITIES

395	SFT	SIGN, TYPE B, TEMP, PRISMATIC, FURN
395	SFT	SIGN, TYPE B, TEMP, PRISMATIC, OPER
10	EA	BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED, FURN
10	EA	BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED, OPER
235	SFT	SIGN, TYPE B, TEMP, PRISMATIC, SPECIAL, FURN
235	SFT	SIGN, TYPE B, TEMP, PRISMATIC, SPECIAL, OPER
30	EA	PLASTIC DRUM, HIGH INTENSITY FURN
30	EA	PLASTIC DRUM, HIGH INTENSITY OPER
1	LS	MINOR TRAF DEVICES

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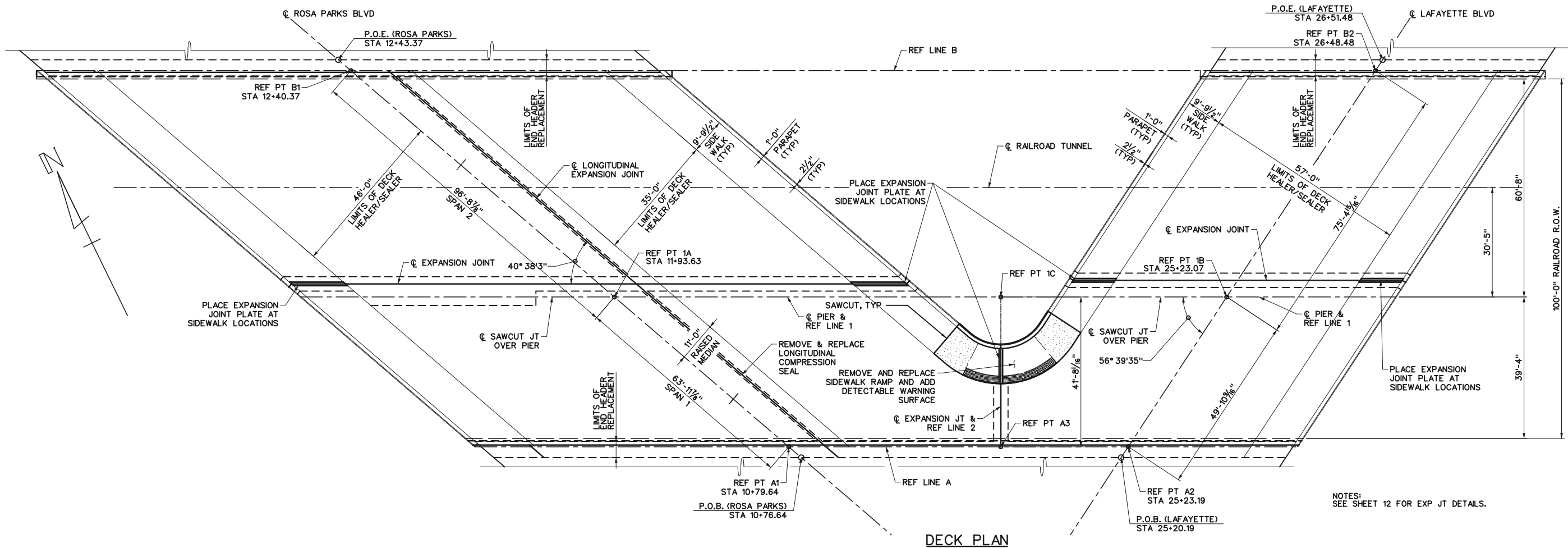
CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERING DIVISION
 ROSA PARKS/LAFAYETTE BRIDGE CPM
 TRAFFIC DETOUR SIGN DETAILS & NOTES

ISSUED FOR: DATE: BY:
 MDT 1/13/16 RRB

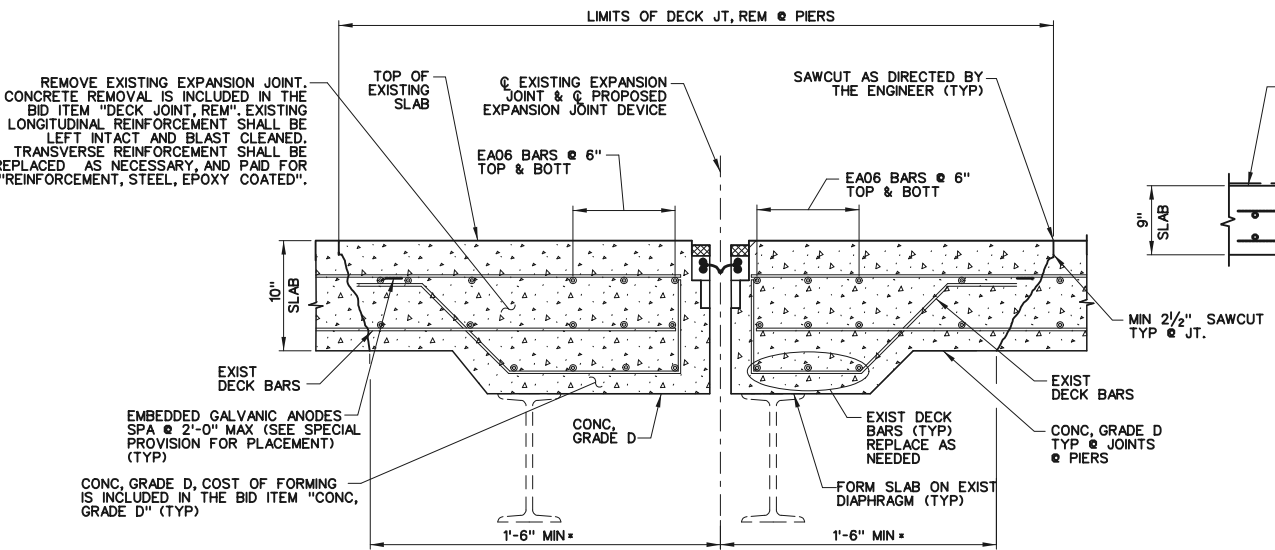
JOB NO.
 DTE 2025-19T

SHEET

REV	DATE	DESCRIPTION
	1/13/16	REVISE SIGNING PER MDT



NOTES:
SEE SHEET 12 FOR EXP JT DETAILS.



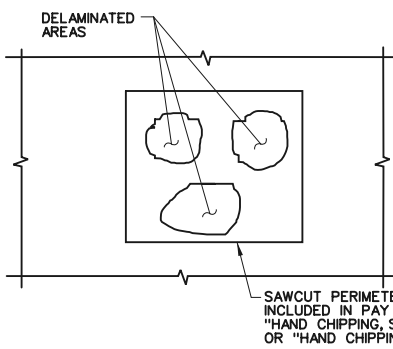
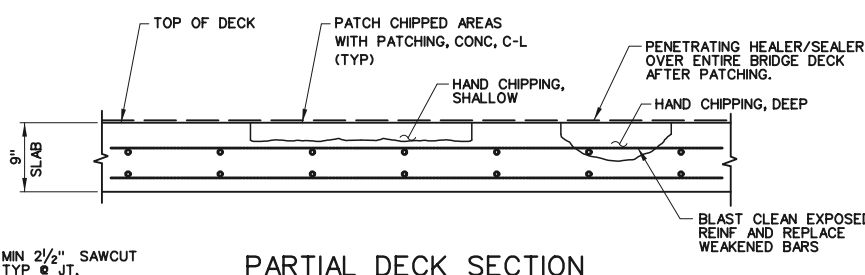
SAWCUT 2 1/2" MIN AND REMOVE THE EXISTING CONC OVERLAY AND ADJACENT CONCRETE. BEFORE FORMING, SOUND CONCRETE TO SEE IF ADDITIONAL REMOVAL WILL BE REQUIRED. SAW CUT INCLUDED IN PAY ITEM "DECK JT, REM".

ENGINEER TO VERIFY AND APPROVE THE LIMITS PRIOR TO REMOVAL OF THE DECK JOINT. ANY ADDITIONAL REMOVAL WITHOUT THE ENGINEER'S APPROVAL SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR, AS DIRECTED BY THE ENGINEER.

CONC REMOVAL @ DECK JOINT SHALL BE INCLUDED IN PAY ITEM "DECK JT, REM".

SEE SHEET 12 FOR EXPANSION JOINT DEVICE DETAILS.

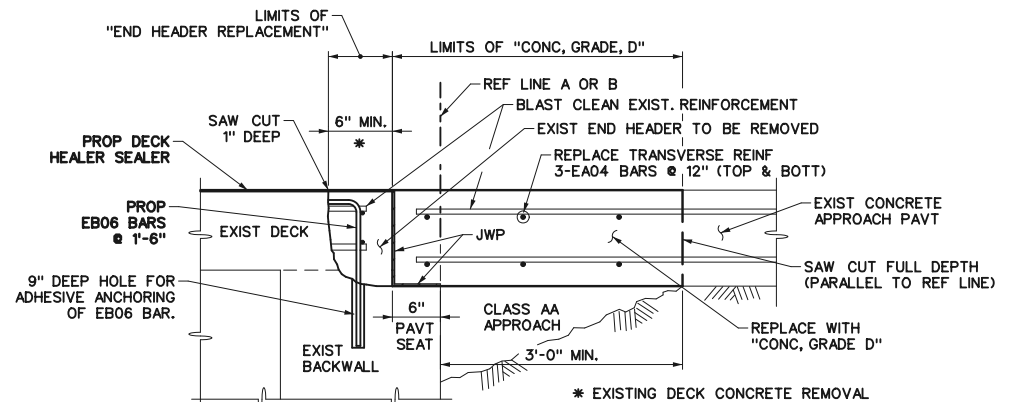
PROVIDE LOW WEATHER PROTECTION AS DIRECTED BY THE ENGINEER.



TYPICAL DECK REPAIRS

HAND CHIPPING SHALLOW AND DEEP ARE PROVIDED IN CASE THE 9" STRUCTURAL DECK HAS SPALLS OR DELAMINATIONS. REMOVE UNSOUND CONCRETE TO DETERMINE EXTENT OF ADDITIONAL HAND CHIPPING, AS DETERMINED BY THE ENGINEER.

MISCELLANEOUS QUANTITIES	
462	FT DECK JT, REM
50	SYD SIDEWALK, REM
25	SYD HAND CHIPPING, SHALLOW
20	SYD HAND CHIPPING, DEEP
15	CYD PATCHING CONC, C-L
17	CYD CONC, GRADE D
960	EA EMBEDDED GALVANIC ANODE
360	SYD BRIDGE DECK SURFACE CONSTRUCTION
2250	SYD PENETRATING HEALER/SEALER, BRIDGE DECK
27	FT DETECTABLE WARNING SURFACE
450	SFT SIDEWALK RAMP, CONC, 7 INCH
751	SFT JOINT WATERPROOFING
501	FT END HEADER REPLACEMENT
1	LS RELOCATION AND SITE CLEANUP



* EXISTING DECK CONCRETE REMOVAL IS TO EXTEND BEYOND THE FIRST TRANSVERSE BAR. REPLACE WITH CONCRETE, GRADE D, INCLUDED IN PAY ITEM "END HEADER REPLACEMENT"

PROJECT MANAGER: JAMES B. GIBSON, JBG@waadetroit.com
 FIELD BOOK INFORMATION: 10/27/2016 10:27:59 AM BY: Micoelle
 PLOTTED: 2/22/2016 10:27:59 AM BY: Micoelle

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CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERING DIVISION
 ROSA PARKS/LAFAYETTE BRIDGE CPM
 BRIDGE DECK REPAIR DETAILS

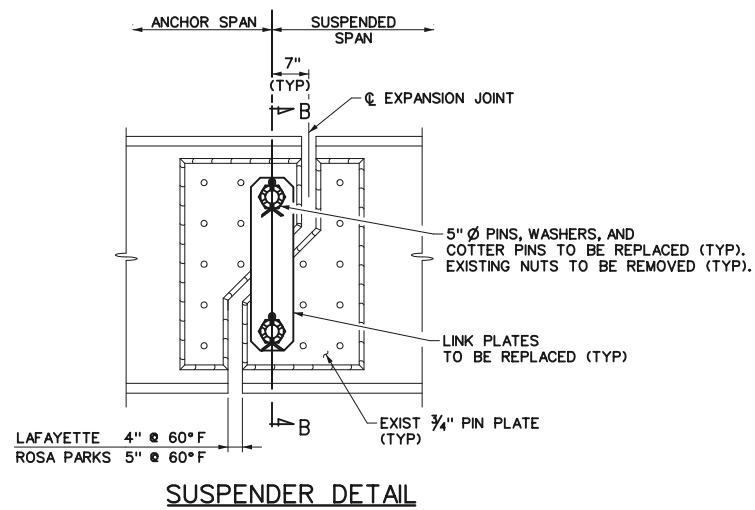
NO.	DATE	DESCRIPTION	BY

ISSUED FOR: DATE: BY:

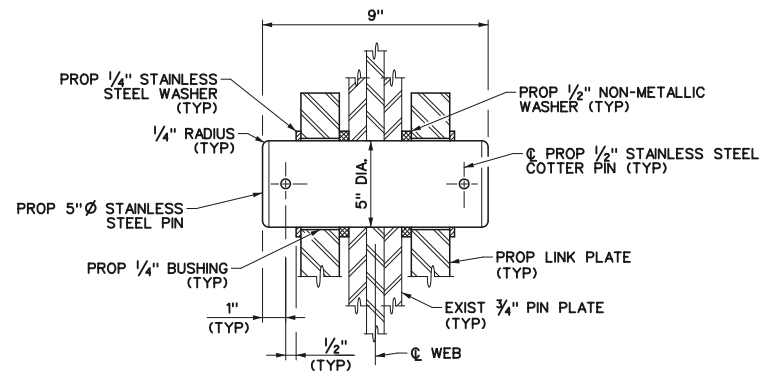
JOB NO.
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SHEET
9

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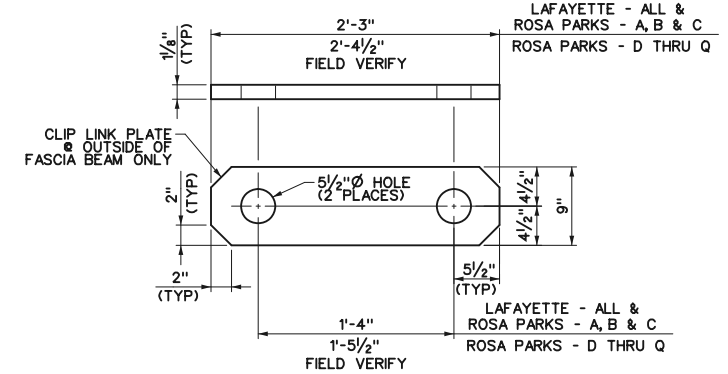


SUSPENDER DETAIL



PROPOSED PIN DETAIL

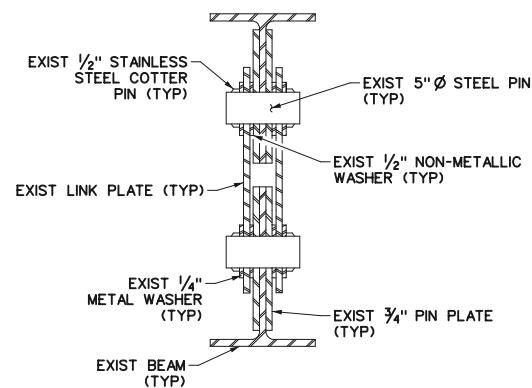
(50 REQ'D)



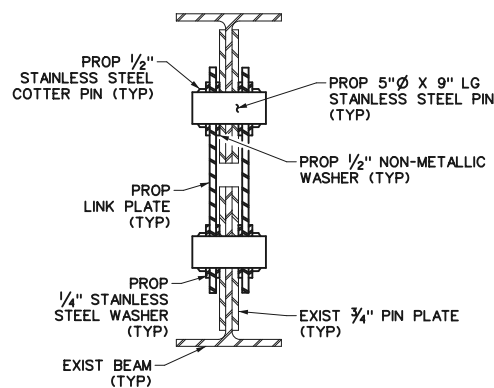
LINK PLATE DETAIL

(50 REQ'D)

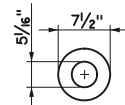
SEE EXIST SHEETS FOR FRAMING PLAN



SECTION B-B (EXISTING)

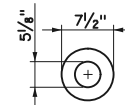


SECTION B-B (PROPOSED)



1/4" STAINLESS STEEL WASHER

(INCLUDED IN PAY ITEM: STRUCTURAL STEEL, FURN AND FAB, PIN AND HANGER)
(100 REQ'D)



1/2" NON-METALLIC WASHER

(INCLUDED IN PAY ITEM: STRUCTURAL STEEL, FURN AND FAB, PIN AND HANGER)
(100 REQ'D)

NOTES:

THESE BRIDGES ARE COATED WITH LEAD BASED PAINT.

THE PROTECTION OF WORK AND ENVIRONMENT DURING BLAST CLEANING OF WEBS BEHIND AND AROUND HANGER ASSEMBLIES SHALL BE ACCORDING TO SUBSECTION 715 OF THE STANDARD SPECIFICATIONS (INCLUDED IN THE BID ITEM "HANGER ASSEMBLY, REM AND ERECT").

THE AREA WITHIN 5 FEET EACH SIDE OF THE CENTERLINE OF THE HANGER ASSEMBLY SHALL BE COATED PRIOR TO INSTALLING THE NEW LINK PLATES AND PINS. PROPOSED LINK PLATES SHALL BE SHOP COATED.

THE PERMISSIBLE HYDRAULIC JACK CAPACITY SHALL BE LIMITED TO 80 TON.

ALTERNATE DESIGNS OF THE TEMPORARY SUSPENSION SUPPORT SHALL BE BASED ON LOADS AS FOLLOWS: 160 KIPS VERTICAL GIRDER LOAD.

THE ENGINEER SHALL INSPECT THE STRUCTURAL STEEL PARTS THAT HAVE BEEN BLAST CLEANED FOR EVIDENCE OF CRACKS OR LOSS OF SECTION DUE TO CORROSION OF MORE THAN 25 PERCENT. SUCH DETERIORATION SHALL BE REPORTED IN WRITING TO CITY ENGINEERING DIVISION.

STRUCTURAL STEEL FOR LINK PLATES SHALL CONFORM TO AASHTO M270, GRADE 50.

CONDUITS SHALL NOT BE CLEANED AND COATED. (SEE SUBSECTION 715 OF THE STANDARD SPECIFICATIONS.)

THE CONTRACTOR SHALL STAGE HIS WORK SUCH THAT HE WORKS ON EVERY OTHER PIN AND HANGER AT ONE END OF THE BEAM AT A TIME.

IF DIAPHRAGMS INTERFERE WITH THE PLACEMENT OF THE TEMPORARY SUPPORT, THEY SHALL BE REMOVED AND RE-INSTALLED WITH NEW HARDWARE. INCLUDED IN THE BID ITEM "SUPPORT, SUSPENSION, TEMP".

MISCELLANEOUS QUANTITIES

100	EA	BUSHING
740	FT	BEAM PLATE, SEAL PERIMETER
25	EA	HANGER ASSEMBLY, FIELD MEASUREMENT
25	EA	HANGER ASSEMBLY, REM AND ERECT
6770	LB	STRUCTURAL STEEL, FURN AND FAB, PIN AND HANGER
25	EA	SUPPORT, SUSPENSION, TEMP
1	LS	STEEL STRUCTURE, CLEANING, PARTIAL, TYPE 4
1	LS	STEEL STRUCTURE, COATING, PARTIAL, TYPE 4

PLOTTED 2/22/2016 10:28:00 AM BY: mnicolls

PROJECT MANAGER: FIELD BOOK INFORMATION: C:\pwwork\mnicolls\05586943.CDP-PL13-FPHanger.dgn

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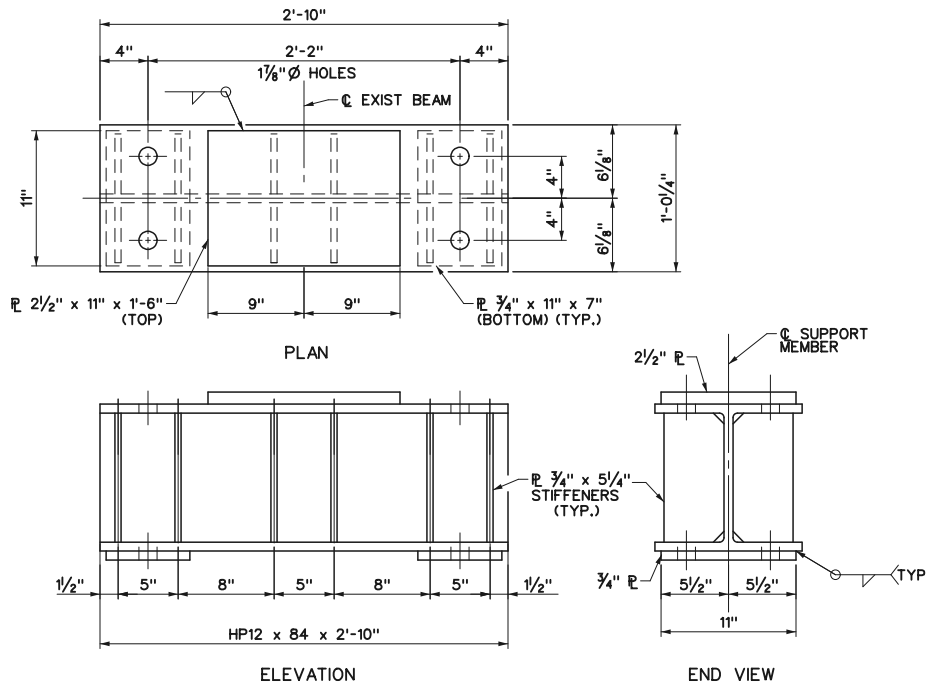
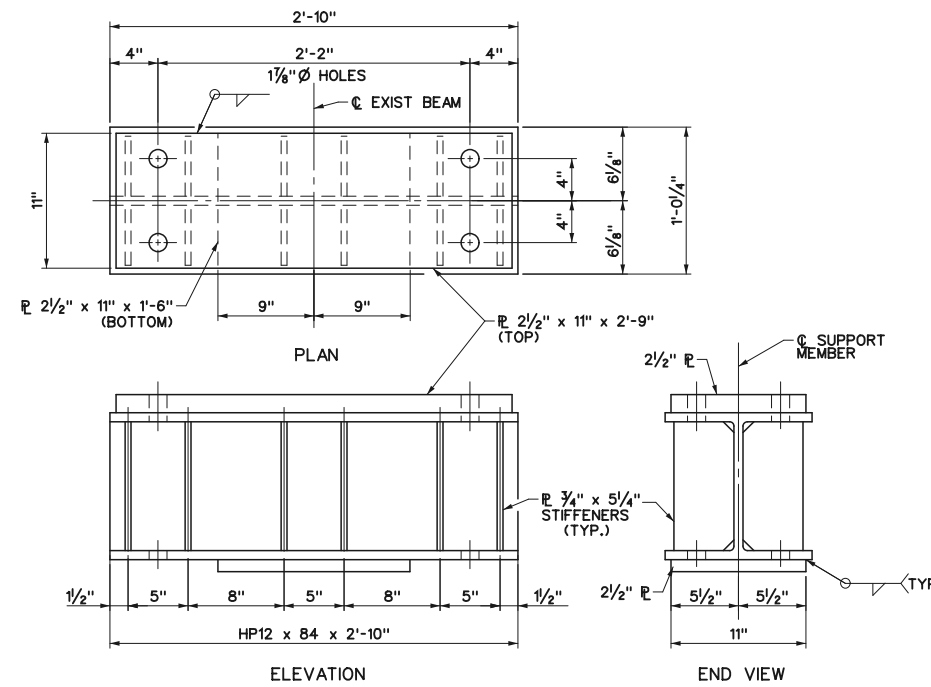
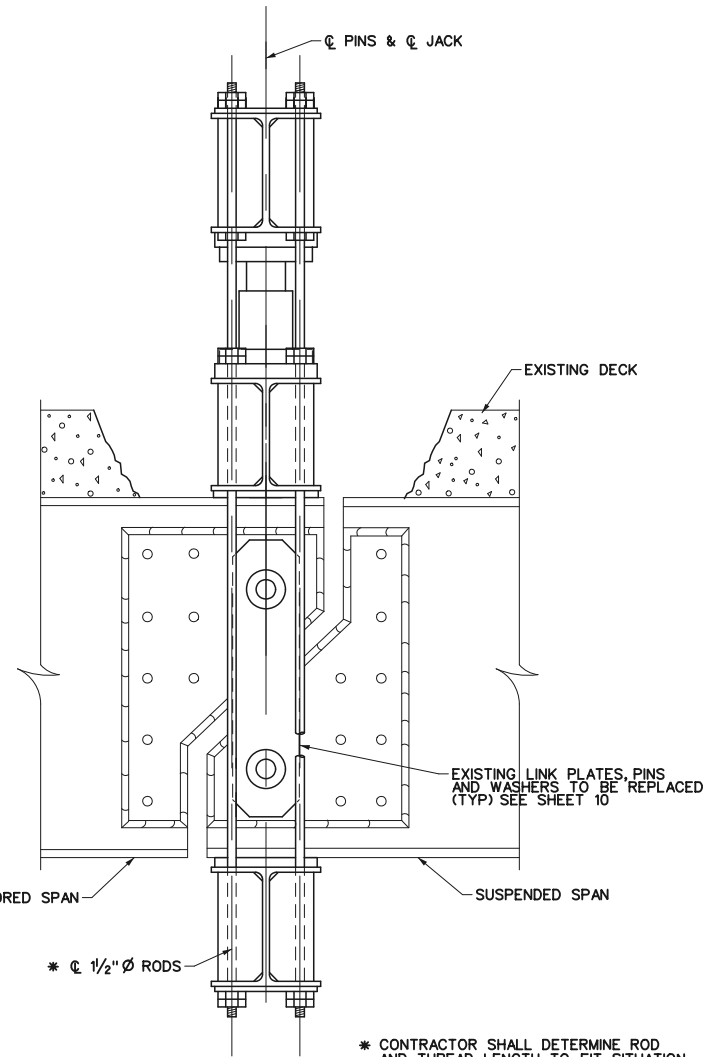
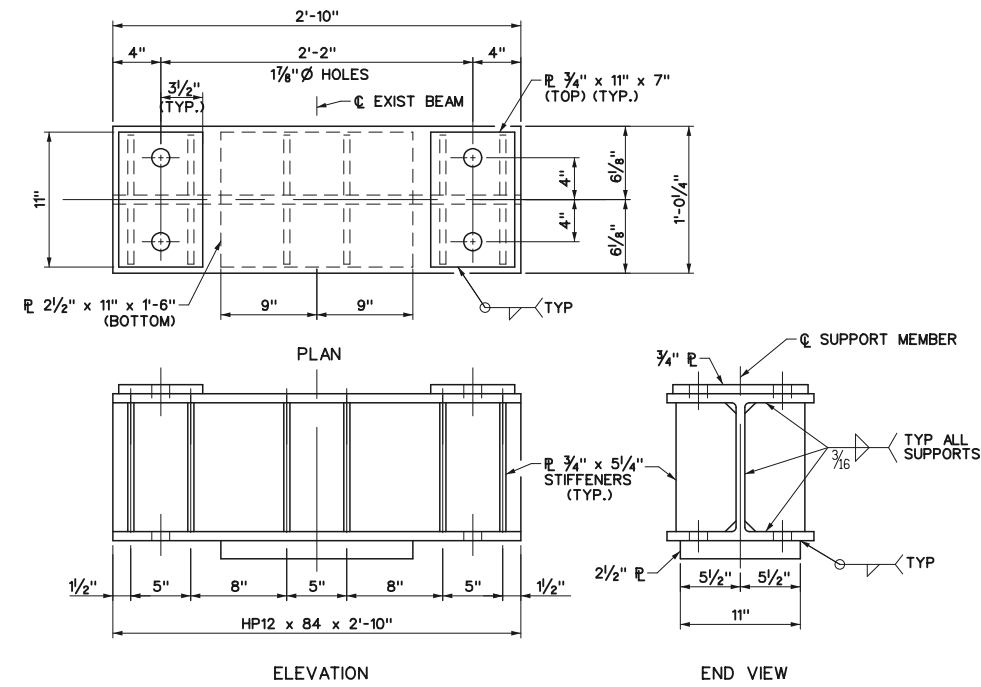
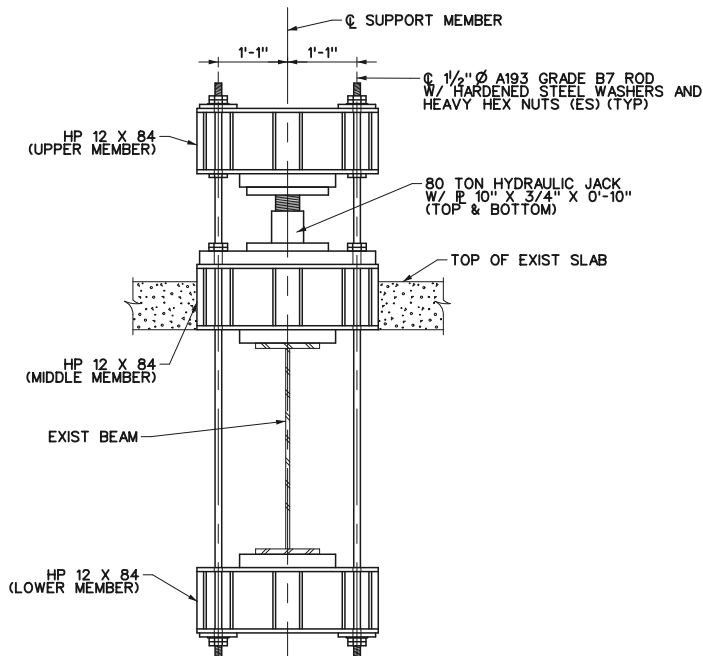
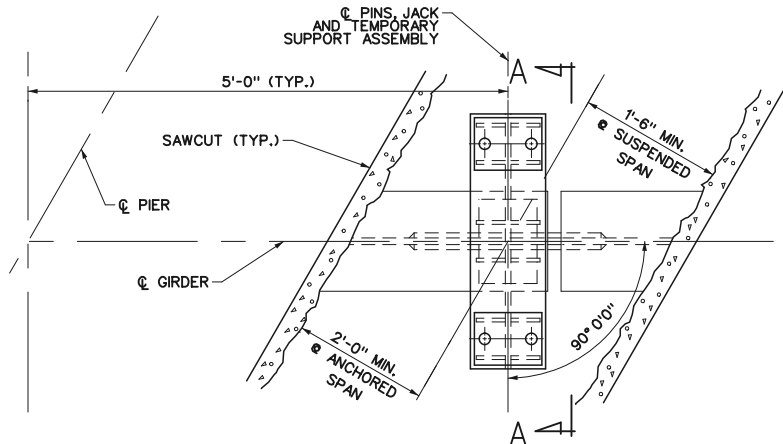
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION
ROSA PARKS/LAFAYETTE BRIDGE CPM
PIN & HANGER REPLACEMENT DETAILS

ISSUED FOR: DATE: BY:

JOB NO.
DTE 2025-19T

SHEET

REV	DATE	DESCRIPTION



* CONTRACTOR SHALL DETERMINE ROD AND THREAD LENGTH TO FIT SITUATION. 4 REQUIRED PER ASSEMBLY WITH 7 HEAVY HEX NUTS & 4 HARDENED WASHERS PER ROD.

PROJECT MANAGER: FIELD BOOK INFORMATION: PLOTTED 2/22/2016 10:28:01 AM BY: Mincoll

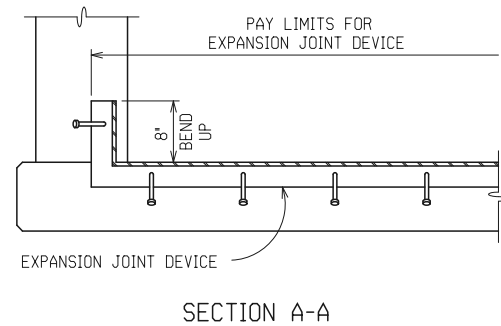
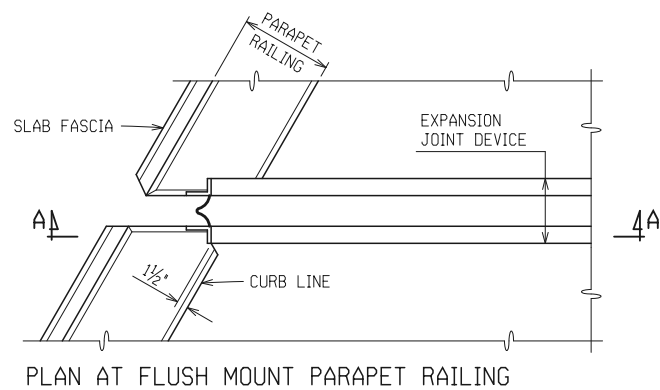
CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERING DIVISION ROSA PARKS/LAFAYETTE BRIDGE CPM TEMPORARY SUPPORT DETAILS	
ISSUED FOR: DATE: BY:	DESCRIPTION
JOB NO. DTE 2025-19T	DATE
SHEET	REV
11	

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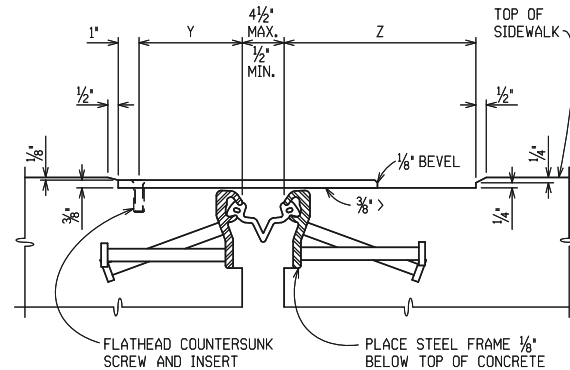
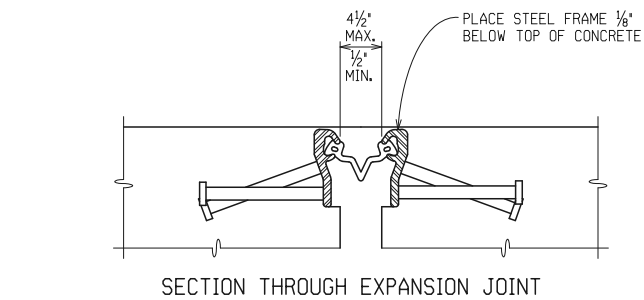
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PLOTTED 2/22/2016 10:28:02 AM BY: Micoils

PROJECT MANAGER: FIELD BOOK INFORMATION: C:\pwwork\micoils\05586943\CDP-PL13-Exp1010.dwg



EXPANSION JOINT DETAILS WITH SIDEWALK-WITH SKEW



WABO STRIP SEAL TYPE M			
TOTAL TRAVEL *	PLATE WIDTH	Y	Z
< 1'	10"	3 3/4"	5 3/4"
1' - 2'	11"	3 3/4"	6 3/4"
2' - 3'	12"	3 3/4"	7 3/4"
> 3'	13"	3 3/4"	8 3/4"

ALL OTHER DEVICES			
TOTAL TRAVEL *	PLATE WIDTH	Y	Z
< 1 1/2"	8"	2 1/2"	5"
1 1/2" - 3 1/2"	10"	2 1/2"	7"
> 3 1/2"	12"	2 1/2"	9"

* SEE TABLE FOR MINIMUM TOTAL TRAVEL ALONG CENTERLINE OF BRIDGE

SIDEWALK SECTIONS

ALL STEEL FOR COVER PLATE SHALL BE AASHTO M270, GRADE 36, MEET THE REQUIREMENTS OF ASTM A786 AND GALVANIZED (ASTM A123).

USE ASTM F 593 (TYPE 304) STAINLESS STEEL 3/4" DIAMETER FLATHEAD COUNTERSUNK SCREWS WITH 3/4" DIAMETER INSERTS.

CAST CURBS AND SIDEWALKS WITH 3/8" SLIDING PLATES IN PLACE TO INSURE THAT INSERTS AND SCREWS ARE ALIGNED PROPERLY. APPLY BOND BREAKER TO SLIDING PLATES PRIOR TO INSTALLATION.

FORM CONCRETE RECESS AREA IN SIDEWALK AND GRIND TO PROVIDE SMOOTH SURFACE. TOOL OR GRIND CONCRETE EDGES TO 1/4" RADIUS. APPLY ONE COAT OF EPOXY RESIN ADHESIVE TO ALLOW BENT SLIDING PLATE TO MOVE FREELY WITHOUT FRICTION. CARE SHALL BE TAKEN SO THAT NO ADHESIVE COMES IN CONTACT WITH ANY PART OF THE EXPANSION JOINT DEVICE OR GLAND. REMOVE ANY FOREIGN PARTICLES FROM THE SURFACE PRIOR TO INSTALLING PLATES.

INSTALL PLATES SO THAT THE SCREWS AND INSERTS ARE SET ON THE HIGH SIDE OF LONGITUDINAL SIDEWALK GRADE.

THE COST OF ALL MATERIALS AND LABOR REQUIRED FOR PROPER INSTALLATION OF THE COVER PLATE IS INCLUDED IN THE PAYMENT FOR THE EXPANSION JOINT DEVICE COVER PLATE.

NOTES:

JOINT TYPES

THE EXPANSION JOINT DEVICE SHALL BE OF A TYPE THAT INCLUDES A CONTINUOUS NEOPRENE (OR EQUIVALENT) SEAL ACROSS THE DECK. UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR HAS THE OPTION OF USING ANY OF THE DEVICES LISTED BELOW:

DEVICE	MANUFACTURER
WABO STRIP SEAL - TYPE M	WATSON-BOWMAN & ACME, INC.
WABO STRIP SEAL - TYPE A	WATSON-BOWMAN & ACME, INC.
STEEFLEX-SSA2	D.S. BROWN
STEEFLEX-SSCM	D.S. BROWN
ONFLEX 40 SS	STRUCTURAL RUBBER PRODUCTS CO.

THE MODEL OF THE JOINT TYPE SELECTED SHALL BE SUITABLE TO ACCOMMODATE THE TOTAL MOVEMENT NOTED ON THE PLANS.

COMPLETE WORKING DRAWINGS OF ALL DETAILS OF FABRICATION OF THE EXPANSION JOINT DEVICE SHALL BE SUBMITTED FOR REVIEW IN ACCORDANCE WITH STANDARD SPECIFICATION 104.02. THIS REQUIREMENT IS WAIVED FOR EXPANSION JOINT DEVICES FOR WHICH A SET OF STANDARD INSTALLATION DETAILS HAS BEEN APPROVED. STANDARD INSTALLATION DETAILS CAN BE OBTAINED FROM THE DESIGN DIVISION.

FABRICATION AND INSTALLATION

THE EXPANSION JOINT SHALL BE SHOP FABRICATED TO CONFORM TO THE CONTOUR OF THE BRIDGE DECK, BARRIERS, ETC. IT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS SUBJECT TO NOTES HEREIN AND THE APPROVAL OF THE ENGINEER.

THE TOP OF THE EXPANSION JOINT DEVICE SHALL BE SET 1/8" - 1/4" BELOW THE CONCRETE SLAB (PAVEMENT) WITH A TOLERANCE OF < 1/8".

THE STEEL ANCHORAGE FOR STRIP SEAL GLANDS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH SUBSECTION 707.03C.17 OF THE STANDARD SPECIFICATIONS.

THE AREA OF THE STEEL ANCHORAGE AND SEALING GLAND WHICH WILL BE IN CONTACT WITH A SEALANT, OR LUBRICANT-ADHESIVE SHALL BE CLEANED WITH TOLUENE OR OTHER APPROVED SOLVENT.

IN THE EVENT THAT SPLICING IS REQUIRED OF THE SEALING GLAND, IT SHALL BE SPLICED BY AN APPROVED METHOD (SUCH AS COLD VULCANIZATION) BY A TRAINED REPRESENTATIVE OF THE MANUFACTURER.

DETAILS AT CURBS OR BARRIERS

THE DETAILS ON THIS SHEET SHOW AN APPROVED MEANS OF TERMINATING THE EXPANSION JOINT DEVICE AT CURBS OR BARRIERS. VARIATIONS OR ALTERNATIVE SCHEMES WILL BE CONSIDERED AND MAY BE USED IF APPROVED BY THE ENGINEER.

MATERIALS

THE COST OF ALL MATERIALS AND LABOR REQUIRED FOR PROPER INSTALLATION OF THE EXPANSION JOINT AND THE TERMINAL ASSEMBLIES AT THE CURBS, SIDEWALKS, OR BARRIERS IS INCLUDED IN THE PAYMENT FOR THE EXPANSION JOINT DEVICE.

STRUCTURE NUMBER	ANGLE OF CROSSING TO NEAREST 10°	LOCATION OF JOINT	MIN. TOT. TRAVEL ALONG CENTERLINE OF BRIDGE *	REQUIRED LENGTH OF EXPANSION JOINT DEVICE
12363	60°	REF LINE 1B	3'	94.1'
12370	40°	REF LINE 1A	3'	173.8'
12363/12370	90°	REF LINE 2	2'	28.6'
12370	40°	LONGIT	3'	165.1'

QUANTITY		
ITEM	UNIT	AMOUNT
Expansion Joint Device	Ft	462
Expansion Joint Device, Cover Plate	Ft	64

NO.	DATE	DESCRIPTION	BY

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 EXPANSION JOINT DETAILS

ISSUED FOR: DATE: BY:

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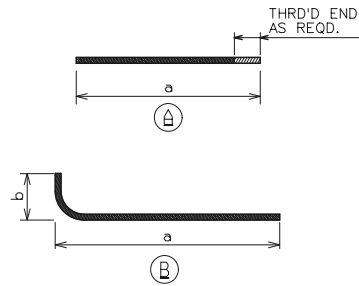
SHEET
12

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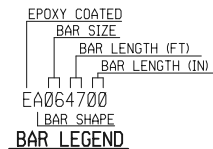
STEEL REINFORCING SCHEDULE

EXP JOINT AT PIER 1	BAR	DIMENSIONS		NO. REQ'D	TOTAL WT.
		a	b		
	EA042000	20'-0"		54	721
	EA062500	25'-0"		12	451
	EA063500	35'-0"		12	631
	EA064000	40'-0"		24	1442
	EA064500	45'-0"		48	3244
	EB060107	1'-4"	0'-3"	176	419
TOTAL = 6.908					

QUANTITY SUMMARY			
ITEM NUMBER	ITEM DESCRIPTION	TOTAL PLAN QUANTITY	ITEM UNIT
CAT 01 - Road Items			
1027060	Permits, Railroad, R.O.E.	2,500	Dir
1500001	Mobilization, Max	1	LS
8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	10	Ea
8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	10	Ea
8120170	Minor Traf Devices	1	LS
8120250	Plastic Drum, High Intensity, Furn	30	Ea
8120251	Plastic Drum, High Intensity, Oper	30	Ea
8120350	Sign, Type B, Temp, Prismatic, Furn	395	Sft
8120351	Sign, Type B, Temp, Prismatic, Oper	395	Sft
8120352	Sign, Type B, Temp, Prismatic, Special, Furn	235	Sft
8120353	Sign, Type B, Temp, Prismatic, Special, Oper	235	Sft
CAT 02 - Bridge Items			
2040055	Sidewalk, Rem	50	SYD
2047051	Relocation and Site Cleanup	1	LS
7060010	Conc, Grade D	117	Cyd
7060050	Expansion Joint Device	462	Ft
7060051	Expansion Joint Device, Cover Plate	64	Ft
7060092	Reinforcement, Steel, Epoxy Coated	6908	Lb
7067011	Penetrating Healer/Sealer, Bridge Deck	2250	Syd
7070030	Bushing	100	Ea
7100001	Joint Waterproofing	751	Sft
7120003	Hand Chipping, Shallow	25	Syd
7120004	Hand Chipping, Deep	20	Syd
7120025	Bridge Deck Surface, Construction	360	Syd
7120071	Deck Joint, Rem	462	Ft
7120073	End Header Replacement	501	Ft
7120112	Patching Conc, C-L	15	Cyd
7120120	Embedded Galvanic Anode	960	Ea
7130010	Beam Plate, Seal Perimeter	740	Ft
7130030	Hanger Assembly, Field Measurement	25	Ea
7130031	Hanger Assembly, Rem and Erect	25	Ea
7130070	Structural Steel, Furn and Fab, Pin and Hanger	6770	Lb
7130082	Support, Suspension, Temp	25	Ea
7150047	Steel Structure, Cleaning, Partial, Type 4	1	LS
7150048	Steel Structure, Coating, Partial, Type 4	1	LS
8030010	Detectable Warning Surface	27	Ft
8030037	Sidewalk Ramp, Conc, 7 inch	450	Sft



STEEL REINFORCEMENT NOTES:
 REINFORCEMENT SHALL BE BUNDLED AND TAGGED AS TO THE LOCATION AS SHOWN ON THIS SHEET.
 MISG STEEL REINFORCEMENT SHALL BE USED AT APPROACH SLAB WORK, END HEADER REPAIR AND AS NEEDED OR AS DIRECTED BY THE ENGINEER. STEEL REINFORCEMENT MAY BY CUT AS NECESSARY. ALL CUT ENDS SHALL BE TOUCHED UP IN FIELD PER MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, SECTION 706.03.E.8 (PAGE 391).



MISCELLANEOUS QUANTITIES	
6908	Lb REINFORCEMENT, STEEL, EPOXY COATED

PROJECT MANAGER: FIELD BOOK INFORMATION: PLOTTED 2/22/2016 10:28:23 AM BY: Mincolla

NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED:

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Building relationships on a foundation of excellence.

CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERING DIVISION
 ROSA PARKS/LAFAYETTE BRIDGE CPM
 QUANTITY SUMMARY/STEEL REINFORCING SCHEDULE

ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-19T

SHEET 13

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