

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)
- 3 EXISTING PLAN (REM) - LAFAYETTE BLVD
- 4 EXISTING PLAN (REM) - ROSA PARKS BLVD
- 5 EXISTING PLAN (REM) - PIN & HANGERS
- 6 TRAFFIC DETOUR PLAN 1
- 7 TRAFFIC DETOUR PLAN 2
- 8 TRAFFIC DETOUR SIGN DETAILS & NOTES
- 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

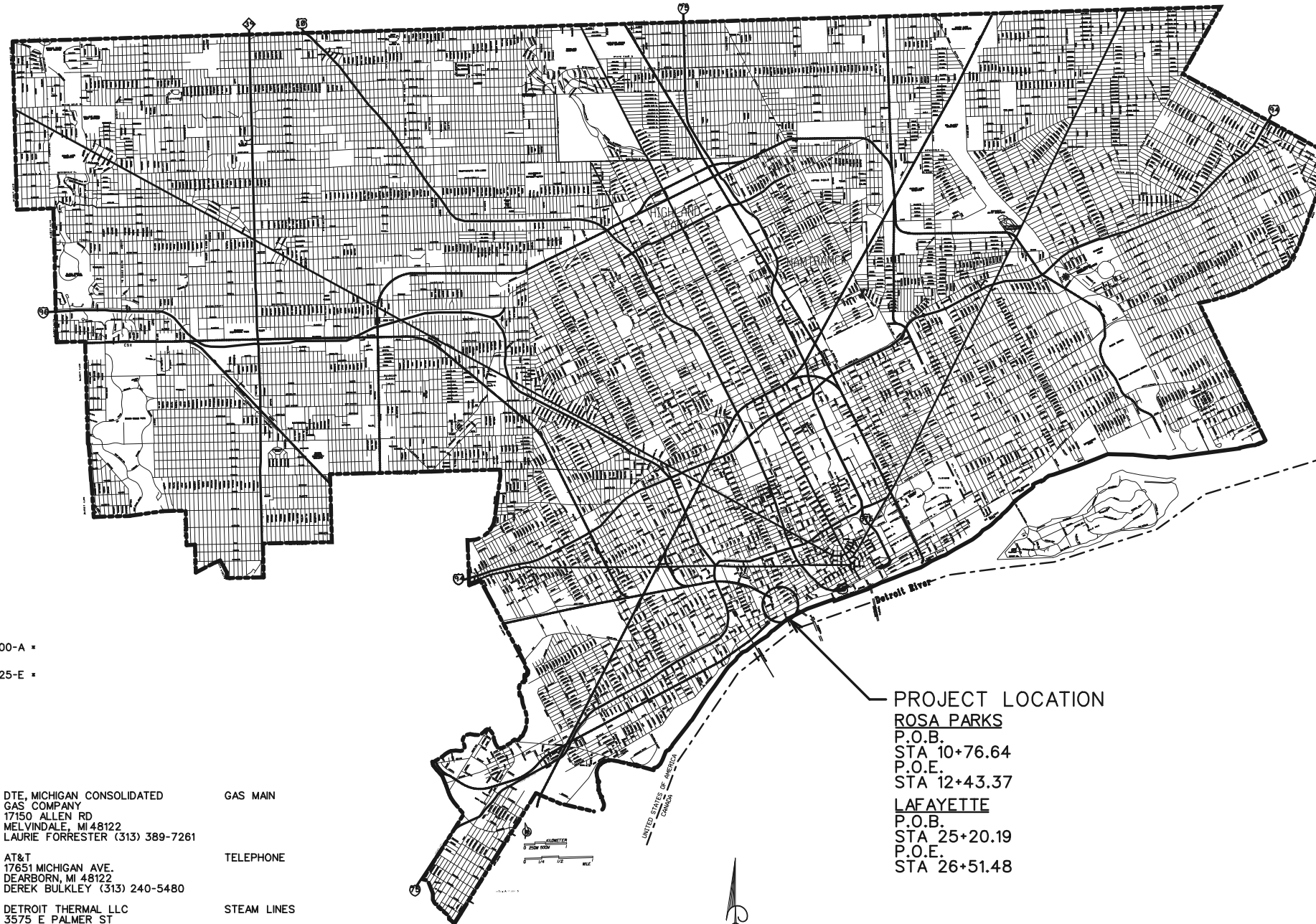
SYSTEMS FOR ANCHORING HORIZONTAL OR VERTICAL REINFORCEMENT IN EXISTING CONCRETE SHALL BE CHOSEN FROM THE QUALIFIED PRODUCTS LIST IN THE CURRENT MDOT MATERIALS SOURCE GUIDE.

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.

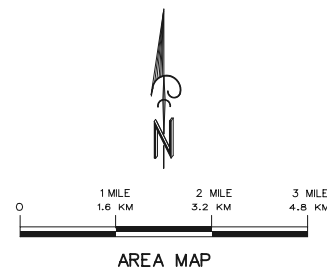
GROUND DRIVEN SIGN SUPPORTS FOR TEMP SIGNS	WZD-100-A *
TEMPORARY TRAFFIC CONTROL DEVICES	WZD-125-E *

UTILITY CONTACT INFORMATION

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

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



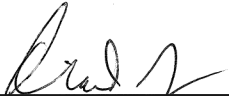
WADETRIM
500 Griswold, Suite 2500
Detroit, MI 48226
313.961.3650
FAX: 313.961.0898
www.wadetrिम.com

Building relationships on a foundation of excellence.

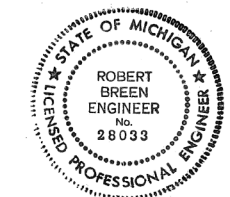
THE REGULATED WASTE ACTIVITY IDENTIFICATION NUMBERS FOR THIS PROJECT ARE AS FOLLOWS:
CONTROL SECTION NUMBER
STU 82457 MIK174435684


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

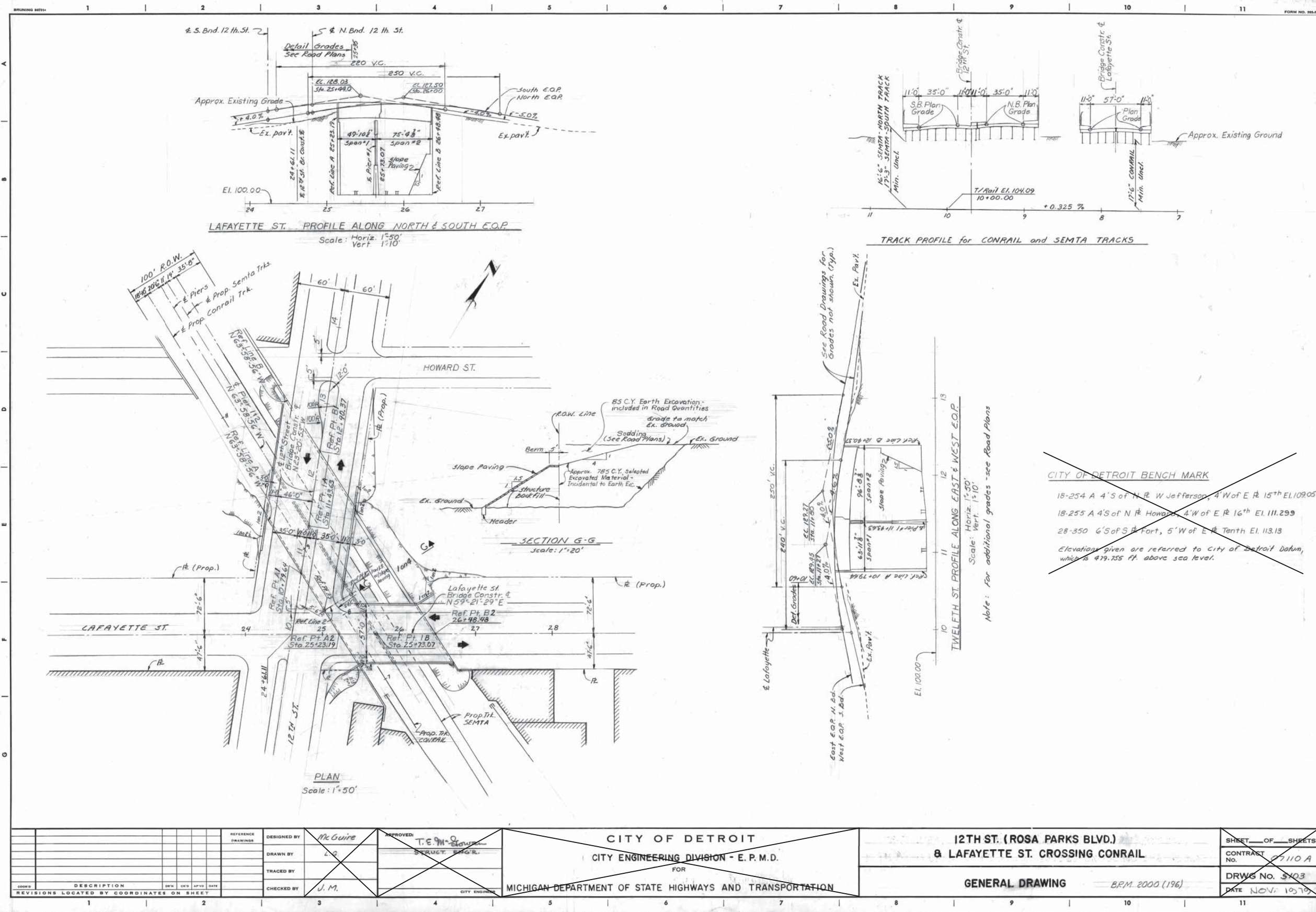
PREPARED UNDER THE SUPERVISION OF:



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

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

© Wade Trim Group, Inc.



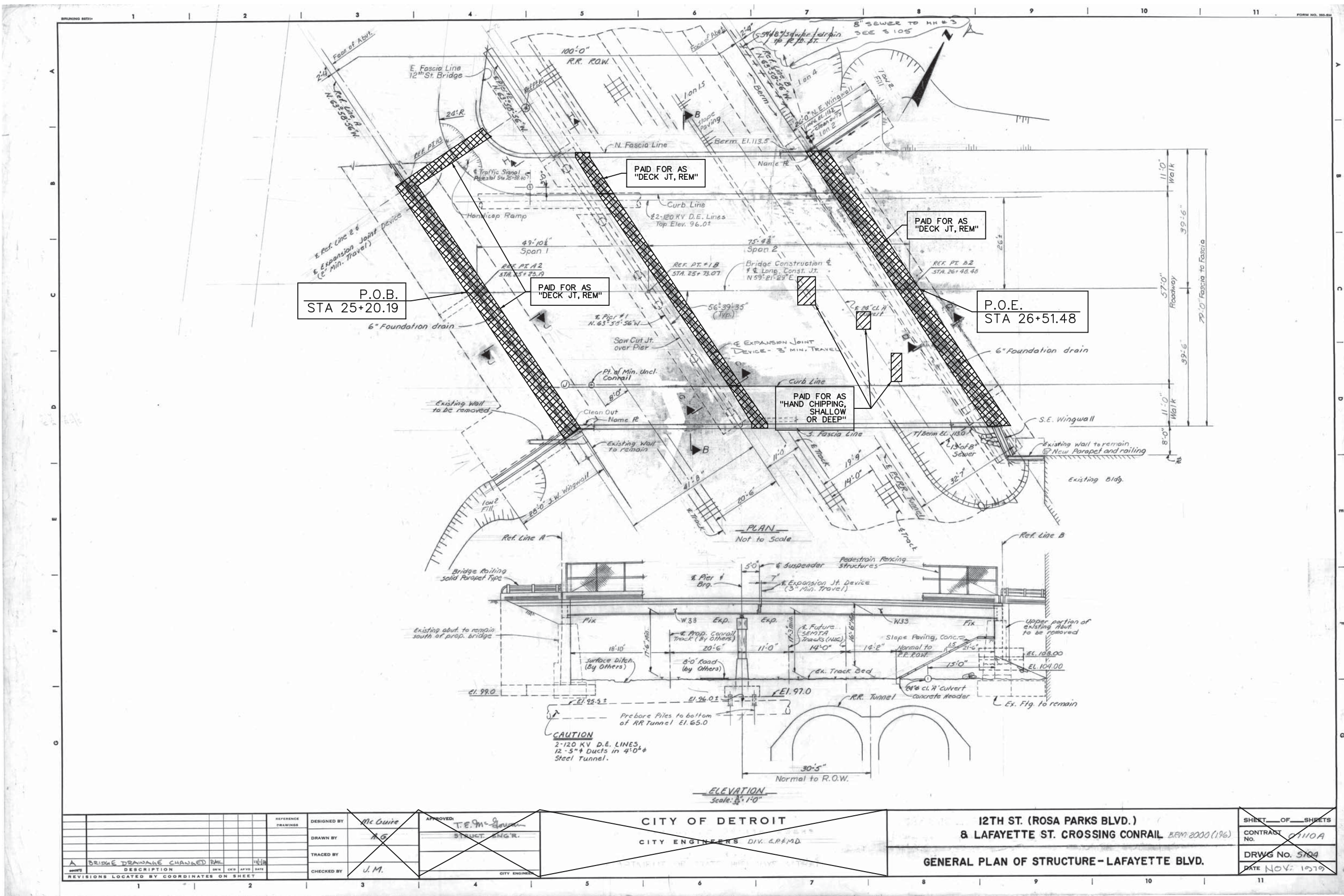
REVISIONS LOCATED BY COORDINATES ON SHEET 1 2 3 4 5 6 7 8 9 10 11		REFERENCE DRAWINGS DESIGNED BY McGuire DRAWN BY L.G. TRACED BY CHECKED BY J.M.	APPROVED T.E.M. STRUCT. ENGR. CITY ENGINEER	CITY OF DETROIT CITY ENGINEERING DIVISION - E.P.M.D. FOR MICHIGAN DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION	12TH ST. (ROSA PARKS BLVD.) & LAFAYETTE ST. CROSSING CONRAIL GENERAL DRAWING BRM. 2000 (196)	SHEET <u> </u> OF <u> </u> SHEETS CONTRACT No. 7110A DRWS No. 3403 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.

NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED:
WADETRIM
 500 Griswold, Suite 2500
 Detroit, MI 48226
 313.961.3850
 FAX: 313.961.2888
 www.wadetrिम.com
 Building relationships on a foundation of excellence

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: Mincalls



NO.	DESCRIPTION	DATE
A	BRIDGE DRAINAGE CHANGED B.M.	11/10

DESIGNED BY	Mc Guire	APPROVED	T.E.M. G...
DRAWN BY	A.S.	STRUCT. ENGR.	
TRACED BY			
CHECKED BY	J.M.	CITY ENGINEER	

CITY OF DETROIT
CITY ENGINEERS DIV. E.P.&M.D.

**12TH ST. (ROSA PARKS BLVD.)
& LAFAYETTE ST. CROSSING CONRAIL BRM 2000 (196)**

GENERAL PLAN OF STRUCTURE - LAFAYETTE BLVD.

SHEET	OF	SHEETS
CONTRACT	No.	1110A
DRWG	No.	5704
DATE		NOV 10 1979

NO.	DATE	DESCRIPTION	BY

NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED.

WADETRIM

500 Griswold, Suite 2500
Detroit, MI 48226
313.961.3850
FAX: 313.961.0888
www.wadetrिम.com

Building relationships on a foundation of excellence.

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		

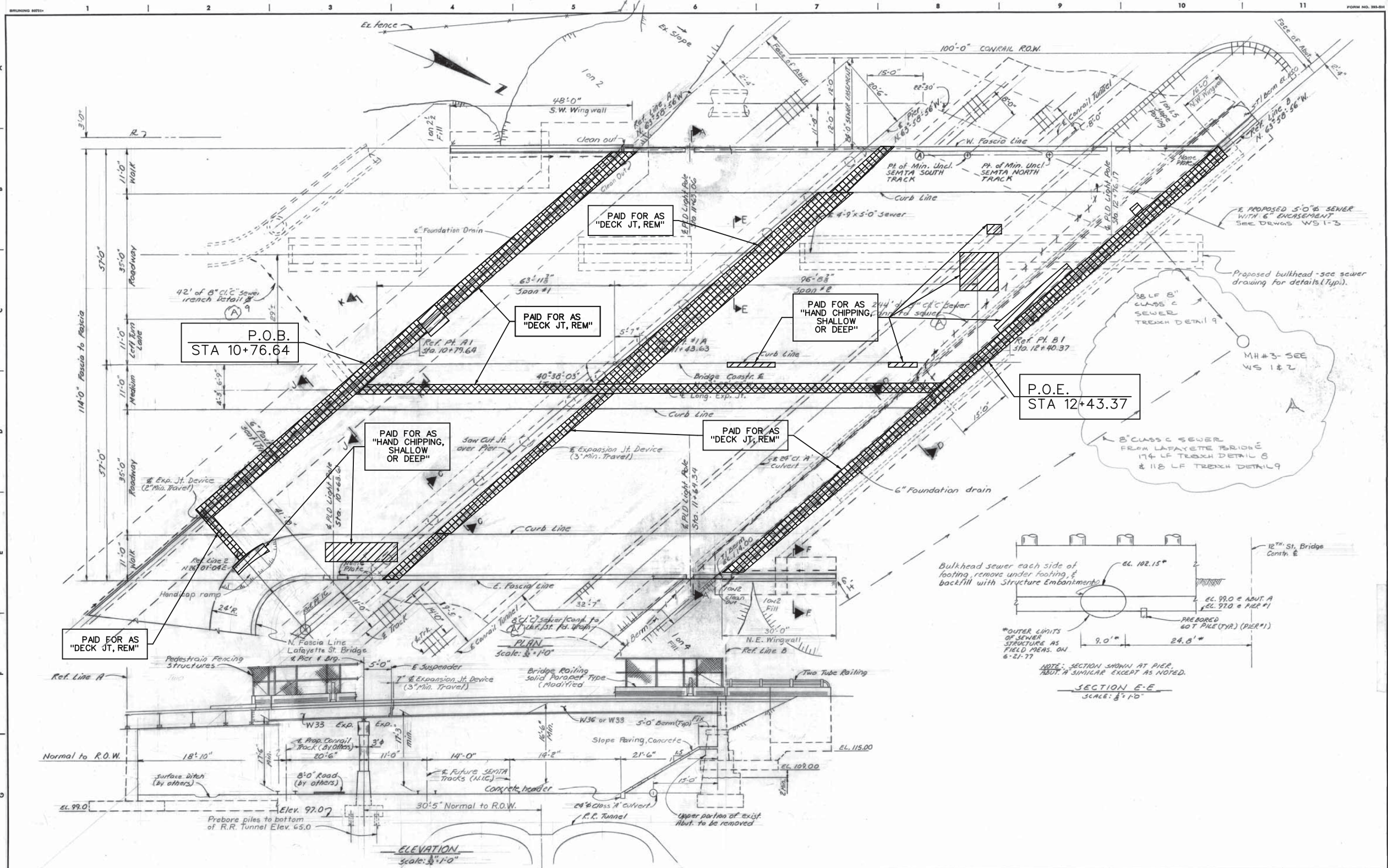
JOB NO. 128087A

ONLY THE HATCHED AREAS, AND NOTES IN BOXES INDICATING REMOVALS, ARE TO BE USED FOR BIDDING PURPOSES.

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

PROJECT MANAGER: FIELD BOOK INFORMATION: PLOTTED 2/22/2016 10:27:16 AM BY: Mincolls

PROJECT MANAGER: FIELD BOOK INFORMATION: PLOTTED 2/22/2016 10:27:16 AM BY: Mincolls



REVISIONS LOCATED BY COORDINATES ON SHEET 1 2 3 4 5 6 7 8 9 10 11		DESIGNED BY: McGuire DRAWN BY: M.G. TRACED BY: CHECKED BY: J.M.	APPROVED: T.E.M. & [Signature] 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. B.M. 2000 (196)	SHEET <u> </u> OF <u> </u> SHEETS CONTRACT No. <u>7110 A</u> DRWG No. <u>3105</u> DATE <u>NOV. 1979</u>
--	--	---	--	--	---	--

JOB NO. 128087A
 ONLY THE HATCHED AREAS, AND NOTES IN BOXES INDICATING REMOVALS, ARE TO BE USED FOR BIDDING PURPOSES.

NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED:

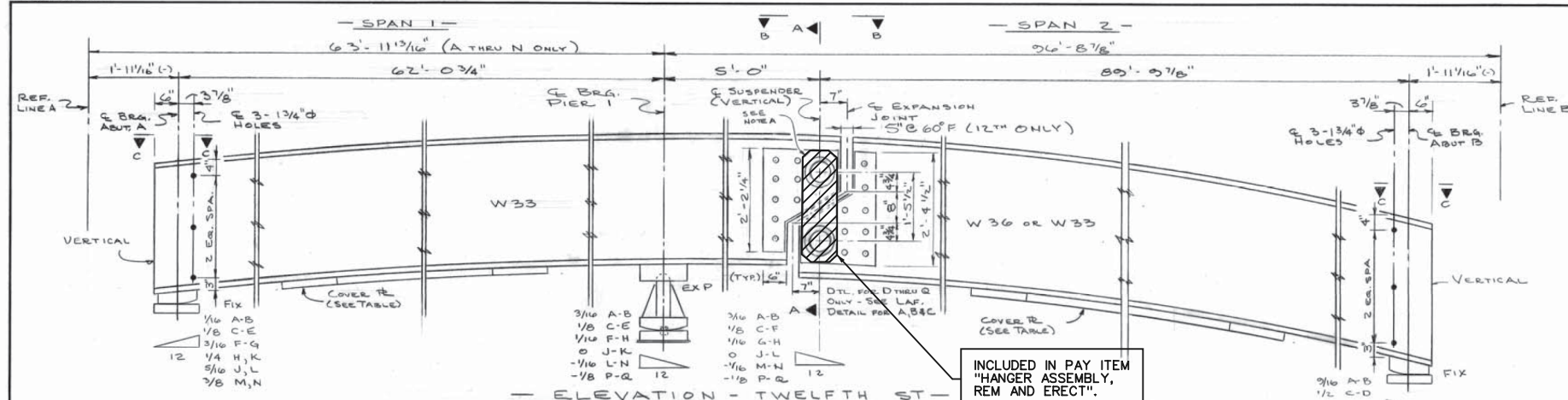
WADETRIM
 500 Grandville, Suite 2000
 Grandville, MI 49431
 313.991.3850
 FAX: 313.991.0888
 www.wadetrtrim.com

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**

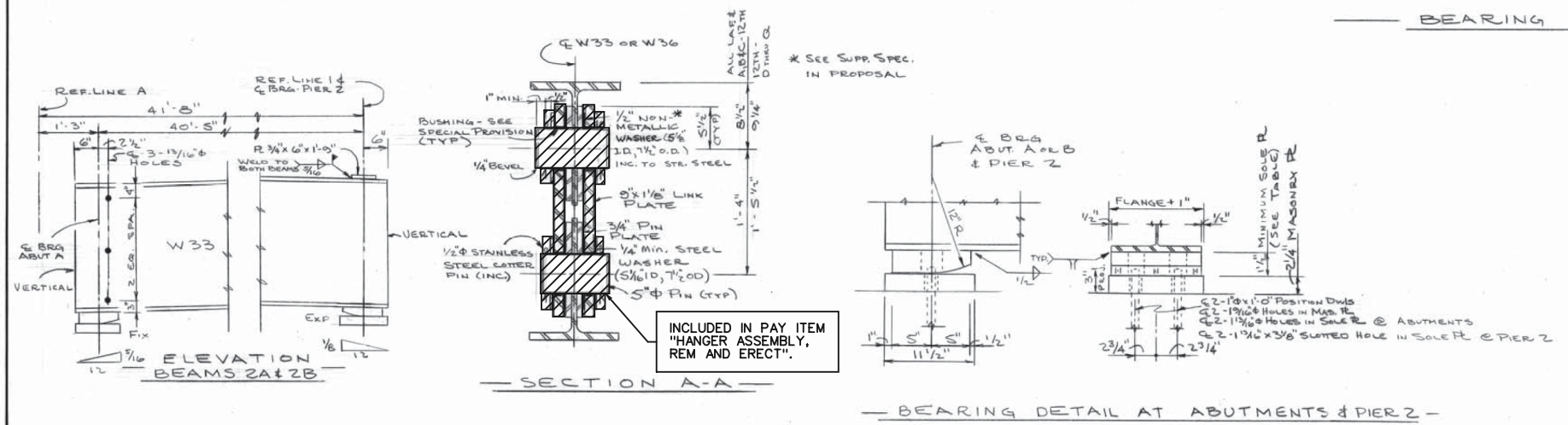
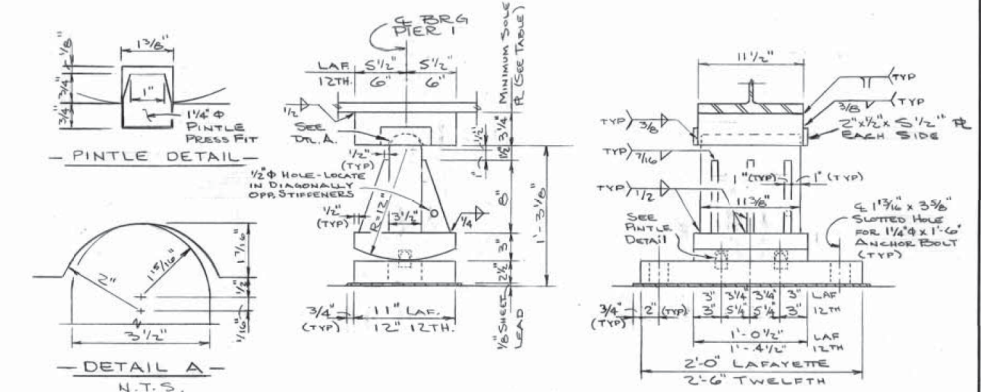
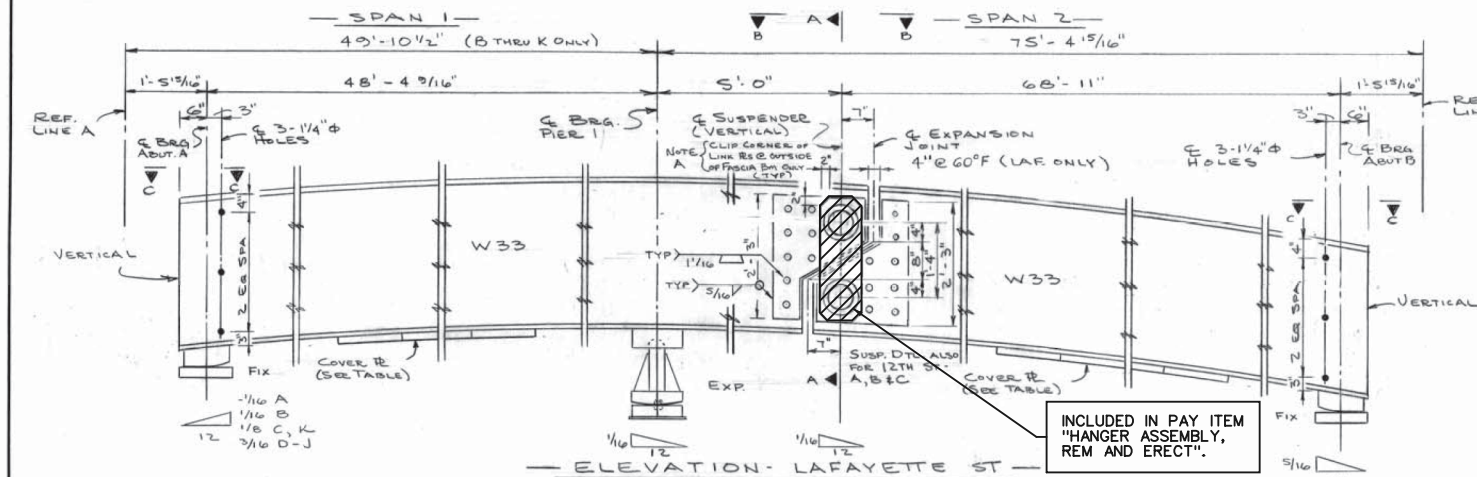
DESCRIPTION: DATE: REV: BY:



— SOLE PLATE TABLES —

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

SOLE PLATE THICKNESS GIVEN @ G BRG. BEVEL THE SOLE PLATES AS SHOWN ON BEAM ELEVATIONS ONLY WHEN SOLE EXCEEDS 1/8" / 12".



<p>REVISIONS LOCATED BY COORDINATES ON SHEET</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DRN</th> <th>CHK</th> <th>APVD</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td>1</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>	NO.	DESCRIPTION	DRN	CHK	APVD	DATE	1						2						3						4						5						6						7						8						9						10						11						<p>DESIGNED BY: <i>R. Carroll</i></p> <p>DRAWN BY: <i>R. Carroll</i></p> <p>TRACED BY: <i>J. Mc...</i></p> <p>CHECKED BY: <i>J. Mc...</i></p>	<p>APPROVED:</p> <p>_____ CITY ENGINEER</p> <p>_____ HEAD CIVIL ENGINEER</p> <p>_____ CITY ENGINEER</p>	<p>CITY OF DETROIT CITY ENGINEERING DIVISION - EPMD</p> <p>FOR 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>	<p>SHEET OF SHEETS</p> <p>CONTRACT NO. 110A</p> <p>DRWG. NO. S-104</p> <p>DATE NOV 1979</p>
NO.	DESCRIPTION	DRN	CHK	APVD	DATE																																																																								
1																																																																													
2																																																																													
3																																																																													
4																																																																													
5																																																																													
6																																																																													
7																																																																													
8																																																																													
9																																																																													
10																																																																													
11																																																																													

JOB NO. 128087A

ONLY THE HATCHED AREAS, AND NOTES IN BOXES INDICATING REMOVALS, ARE TO BE USED FOR BIDDING PURPOSES.

NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED.

WADETRIM

500 Griswold, Suite 2000
Detroit, MI 48226
313.961.3850
FAX: 313.961.2888
www.wadetrिम.com

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

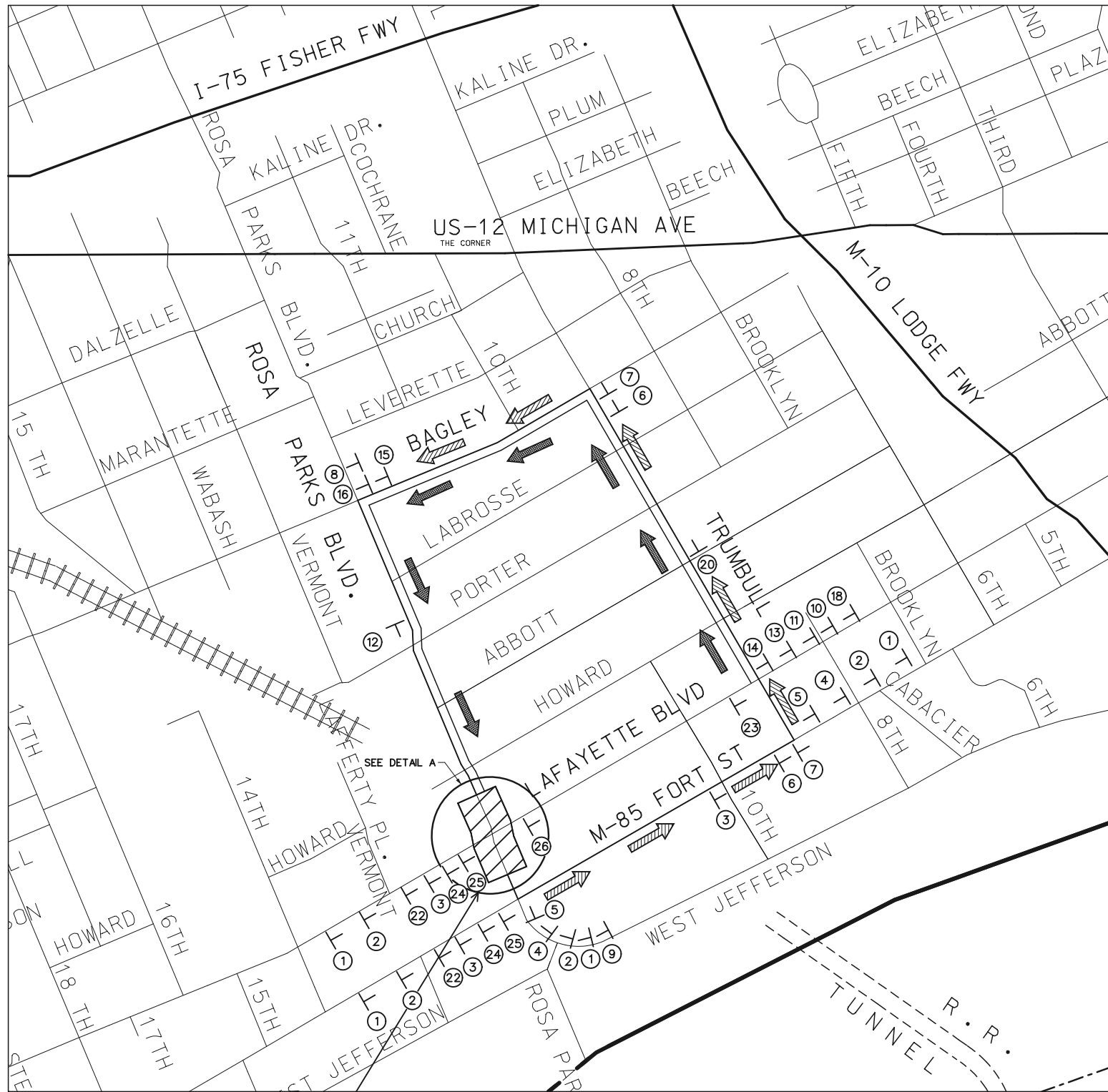
DATE

REV

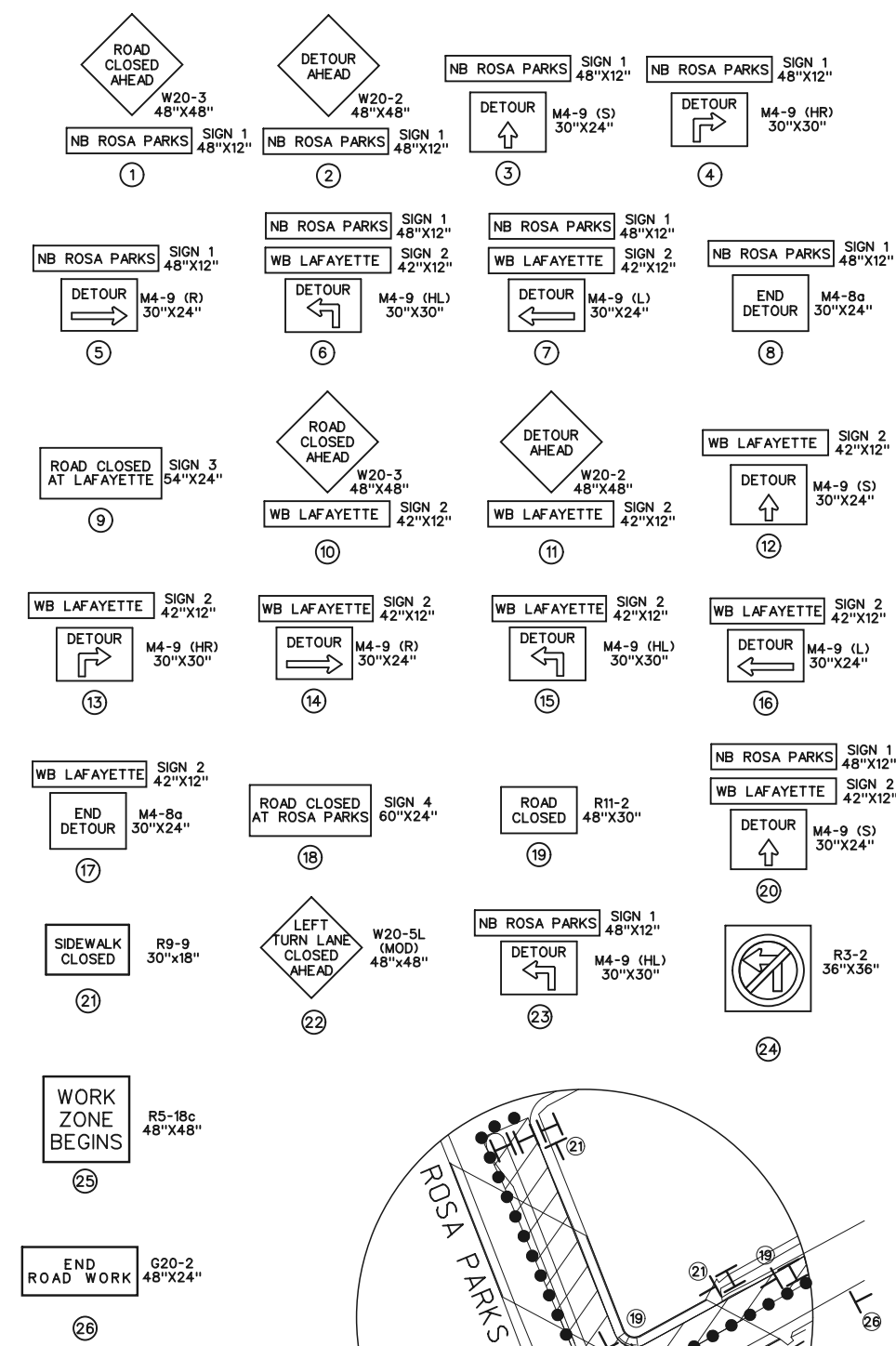
DESCRIPTION

BY

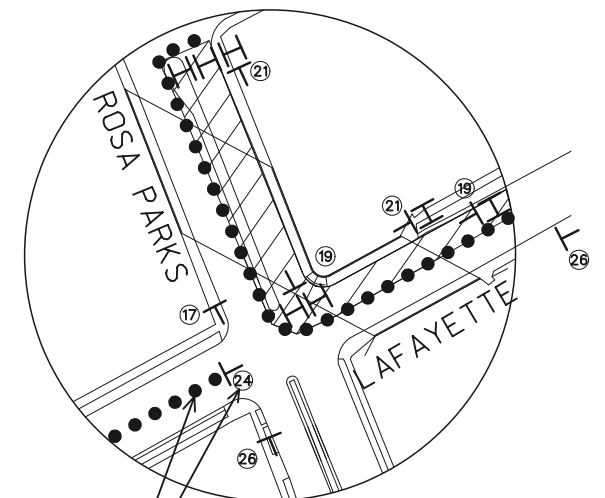
PROJECT MANAGER: J05586943.CSP-PL15-DetourPlan.dgn
 FIELD BOOK INFORMATION: PLOTTED 2/22/2016 10:27:56 AM BY: Micolle



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



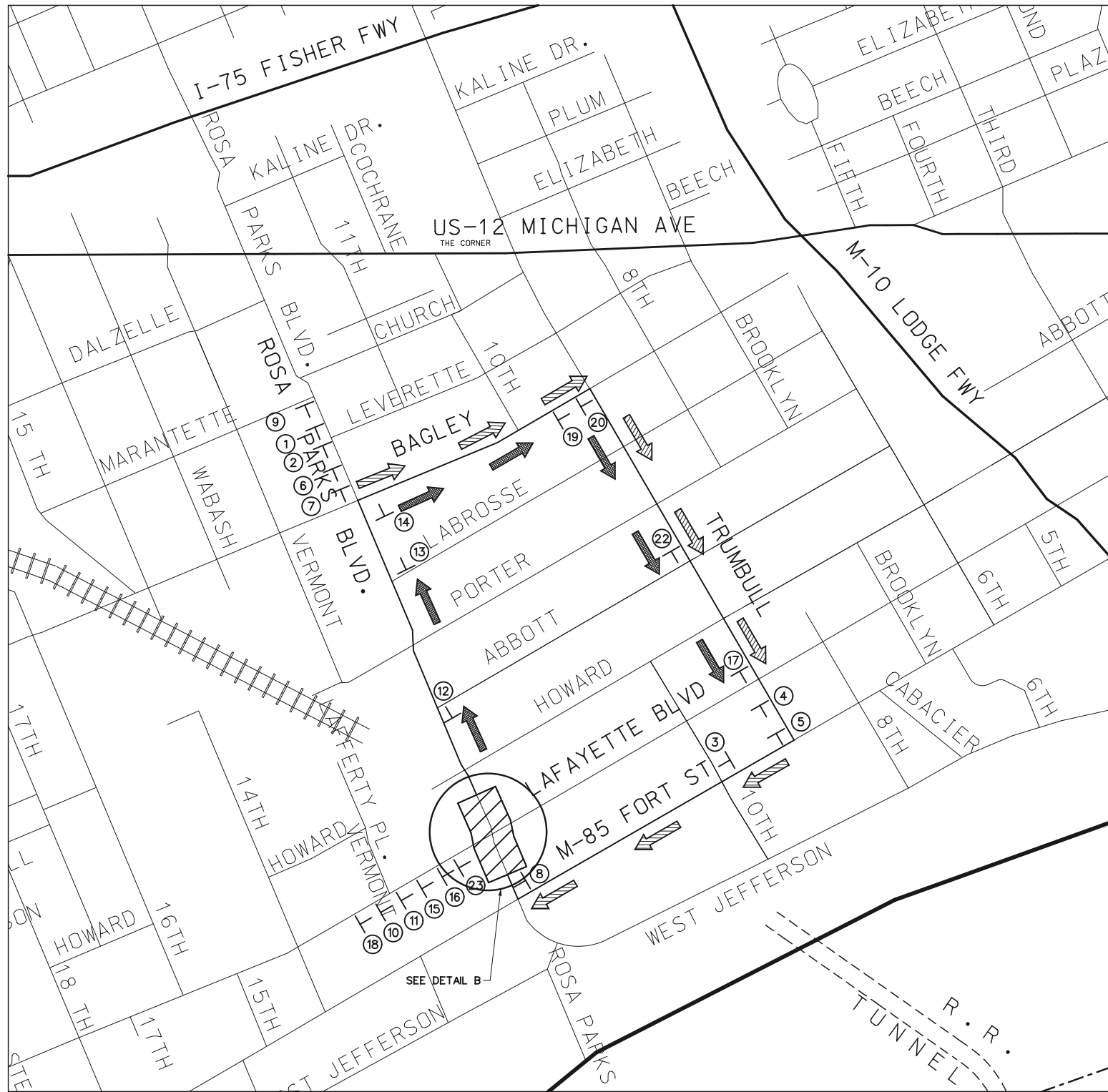
DETAIL A
 PLACE DRUMS TO CLOSE EB LEFT TURN LANES ON LAFAYETTE AND M-85 (FORT ST) AT ROSA PARKS. PLACE SIGN 24 IN THE LEFT TURN LANE.

SEE SHEET 8 FOR QUANTITIES

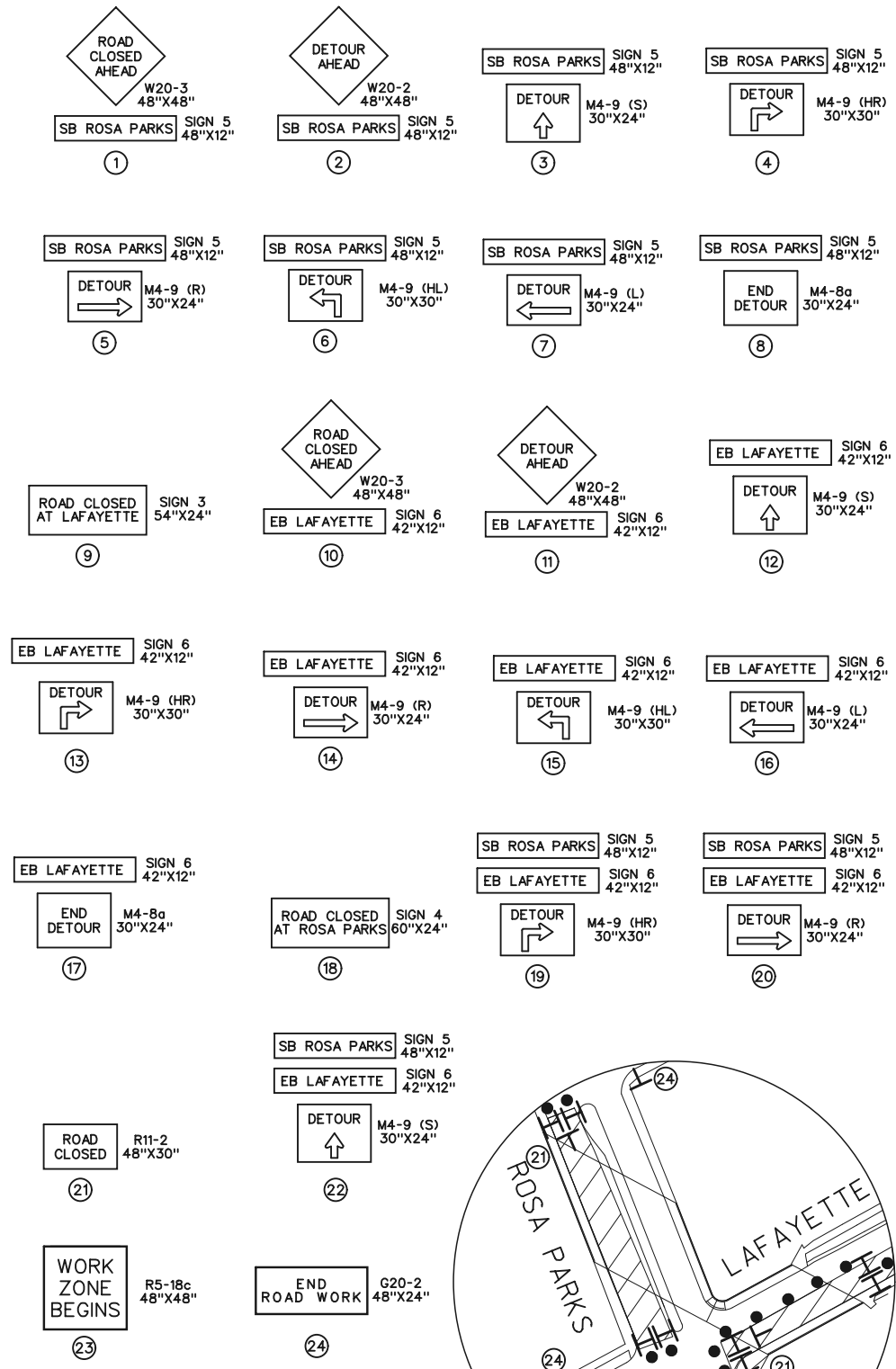
<p>WADETRIM 500 Griswold, Suite 2000 Detroit, MI 48226 313.961.3850 FAX: 313.961.0888 www.wadetrिम.com</p>	<p>CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERING DIVISION ROSA PARKS/LAFAYETTE BRIDGE CPM TRAFFIC DETOUR PLAN 1</p>
NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED:	BUILDING RELIABILITY: A FOUNDATION OF EXCELLENCE
1/13/16 REVISE SIGNING PER MDOT	DATE
RRB	BY
PROJECT NO. DTE 2025-19T	SHEET 6

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

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

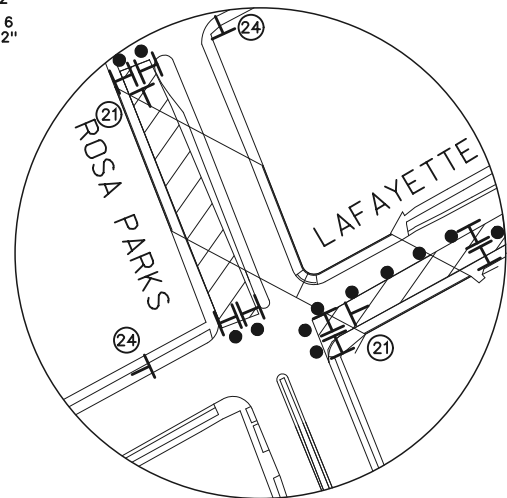


SB ROSA PARKS BLVD & EB LAFAYETTE BLVD
DETOUR PLAN - PHASE II



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

NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED.

WADETRIM
500 Griswold, Suite 2000
313.961.3650
FAX: 313.961.0888
www.wadetrिम.com

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION
ROSA PARKS/LAFAYETTE BRIDGE CPM
TRAFFIC DETOUR PLAN 2

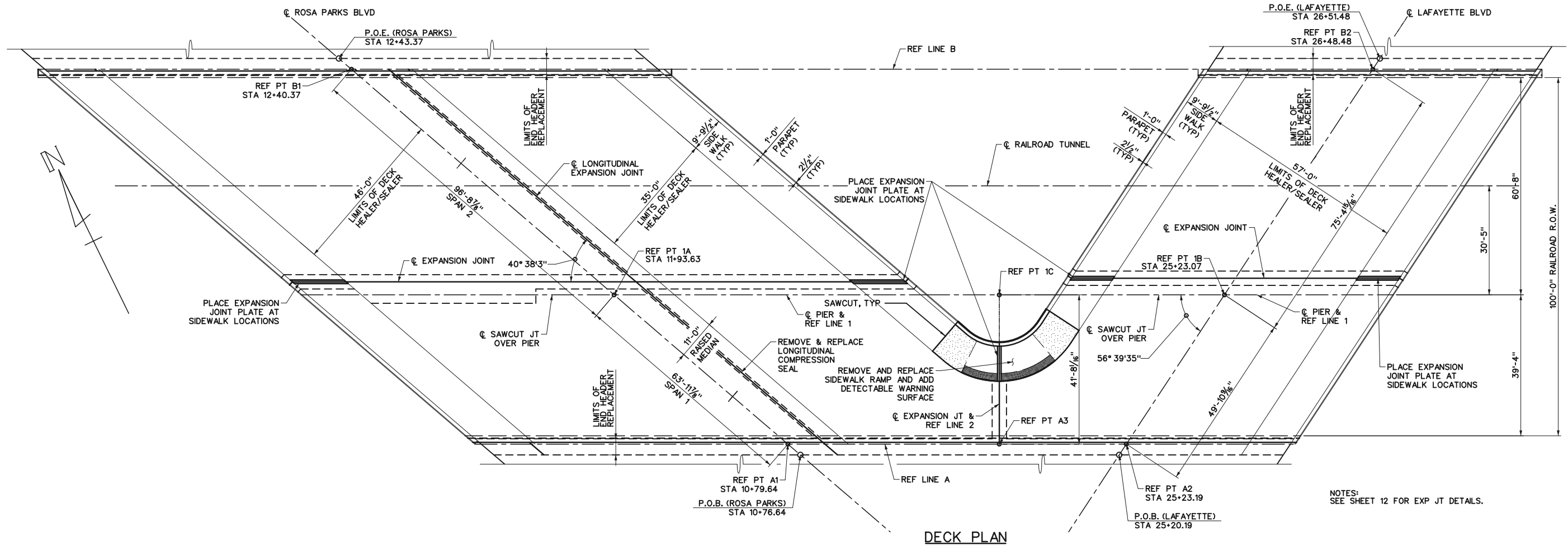
REV	DATE	DESCRIPTION

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

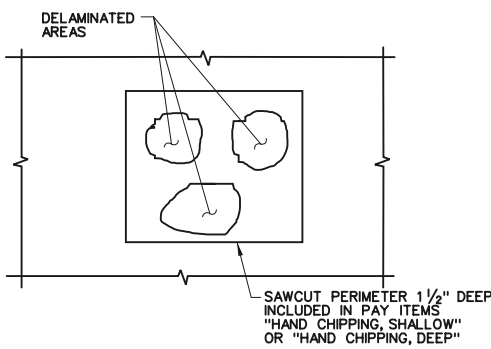
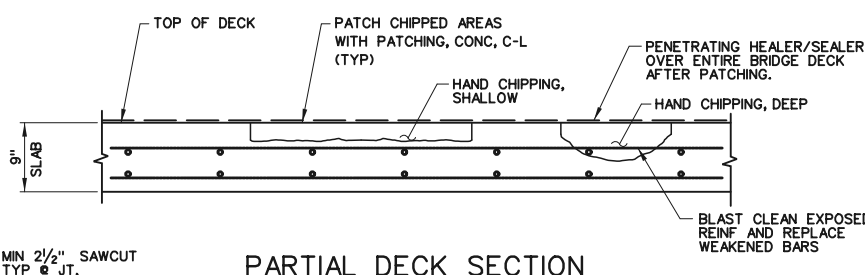
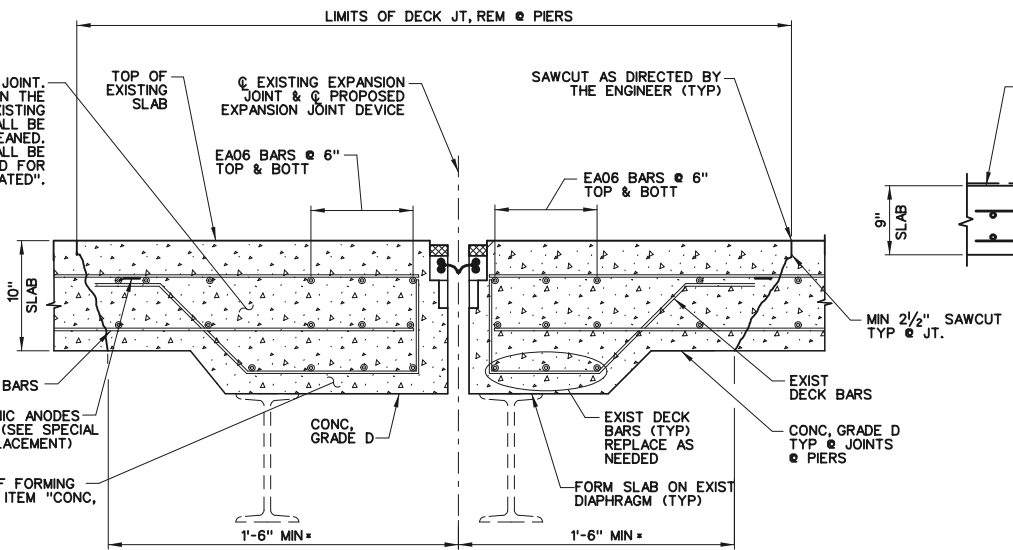
JOB NO.
DTE 2025-19T

SHEET
7

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

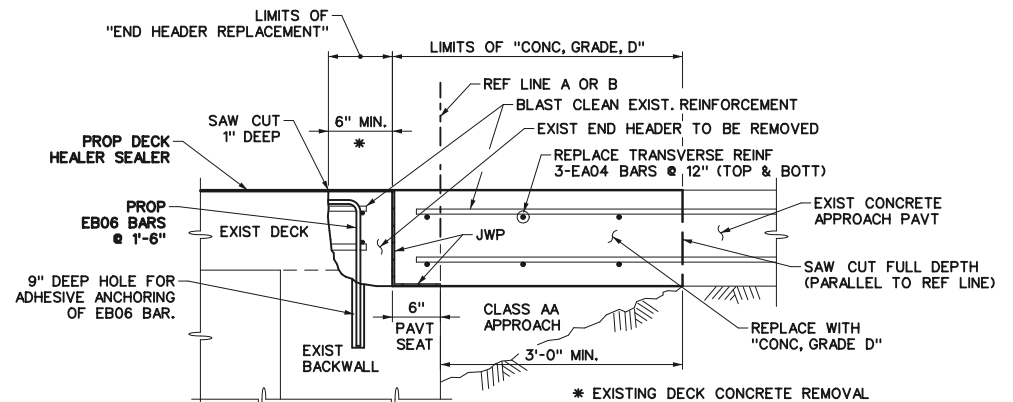


MISCELLANEOUS QUANTITIES	
462	FT DECK JT, REM
50	SYD SIDEWALK, REM
25	SYD HAND CHIPPING, SHALLOW
20	SYD HAND CHIPPING, DEEP
15	CYD PATCHING CONC, C-L
17	CYD CONC, GRADE D
960	EA EMBEDDED GALVANIC ANODE
360	SYD BRIDGE DECK SURFACE CONSTRUCTION
2250	SYD PENETRATING HEALER/SEALER, BRIDGE DECK
27	FT DETECTABLE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



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.



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.

PROJECT MANAGER: JAMES M. MICCOLLS
 FIELD BOOK INFORMATION: PLOTTED 2/22/2016 10:27:59 AM BY: Miccolls

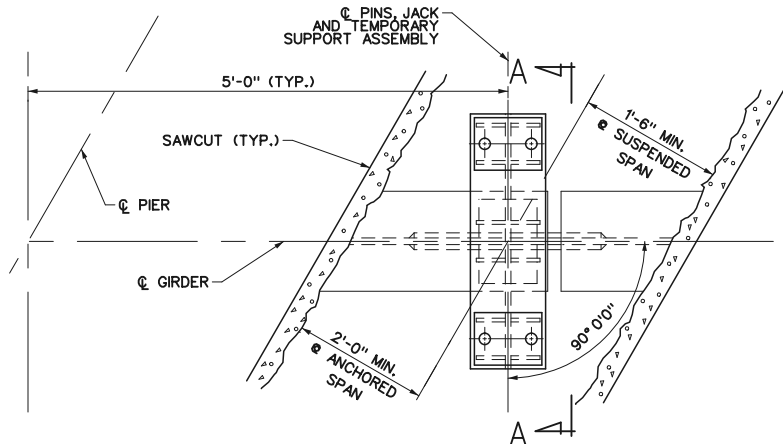
NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED.
WADETRIM
 500 Griswold, Suite 2000
 Detroit, MI 48226
 313.961.3850
 FAX: 313.961.0888
 www.wadetrिम.com

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

NO.	DATE	DESCRIPTION	BY

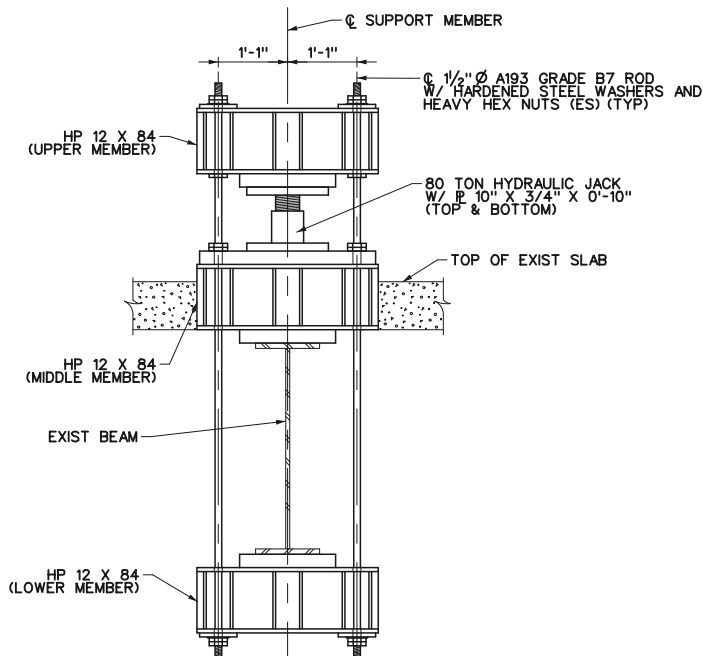
ISSUED FOR: DATE: BY:
 JOB NO. DTE 2025-19T
 SHEET 9

PROJECT MANAGER: JAMES M. MICCOLLS
 FIELD BOOK INFORMATION: PLOTTED 2/22/2016 10:27:59 AM BY: Miccolls
 © 2016 Wade Trim Group, Inc. ROSA PARKS/LAFAYETTE OVER ON RR BRIDGE CPM

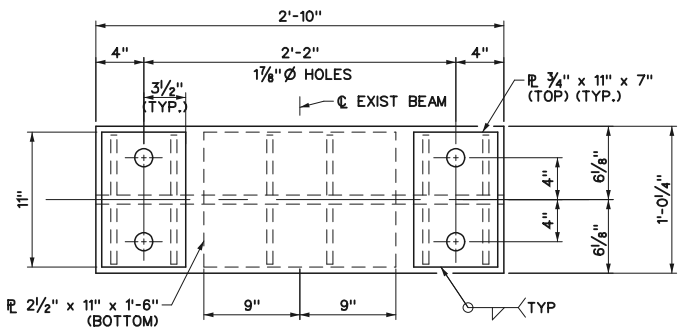


PLAN OF TEMPORARY SUPPORT

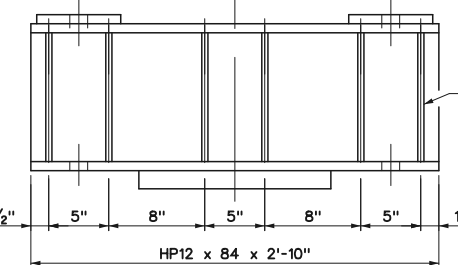
SAWCUT & CONC REMOVAL INCLUDED IN PAY ITEM "DECK JT, REM"



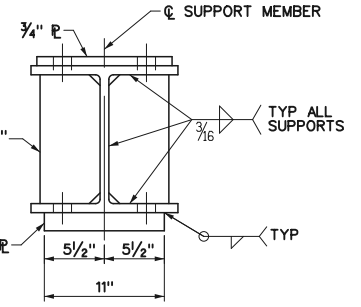
SECTION A-A



PLAN

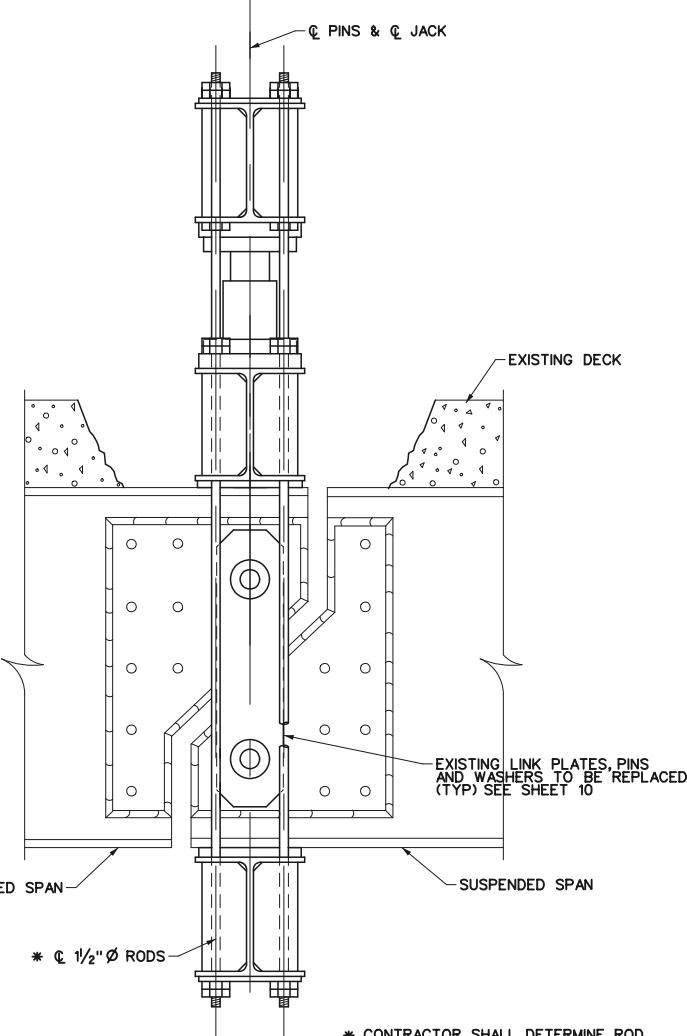


ELEVATION



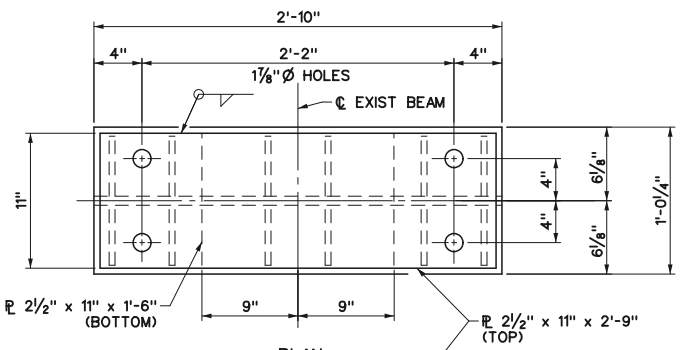
END VIEW

TEMPORARY SUPPORT UPPER MEMBER

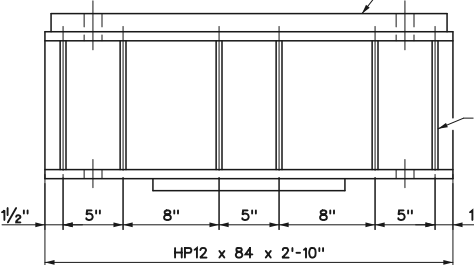


ELEVATION OF TEMPORARY SUPPORT

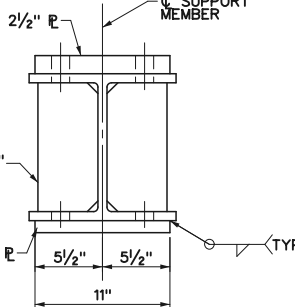
* CONTRACTOR SHALL DETERMINE ROD AND THREAD LENGTH TO FIT SITUATION. 4 REQUIRED PER ASSEMBLY WITH 7 HEAVY HEX NUTS & 4 HARDENED WASHERS PER ROD.



PLAN

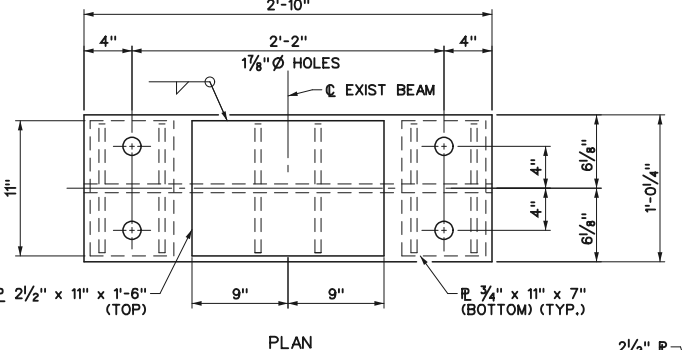


ELEVATION

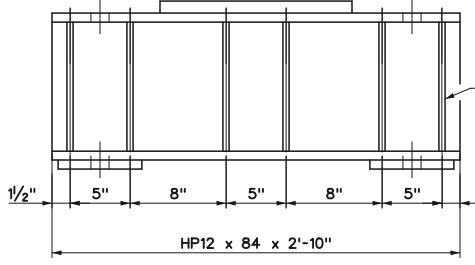


END VIEW

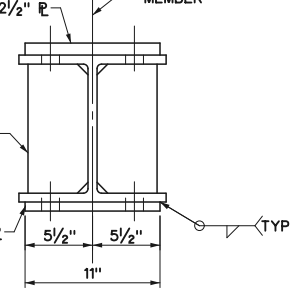
TEMPORARY SUPPORT MIDDLE MEMBER



PLAN



ELEVATION



END VIEW

TEMPORARY SUPPORT LOWER MEMBER

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

REV	DATE	DESCRIPTION	BY

NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED:

WADETRIM
 500 Griswold, Suite 2500
 Detroit, MI 48226
 313.961.3850
 FAX: 313.961.0888
 www.wadetrिम.com

Building relationships on a foundation of excellence.

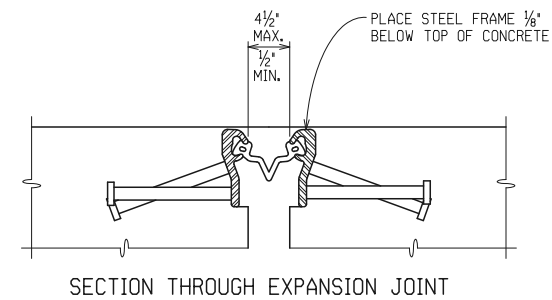
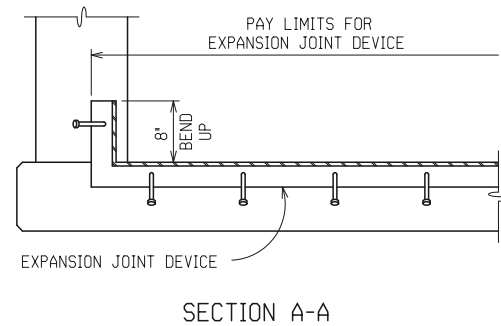
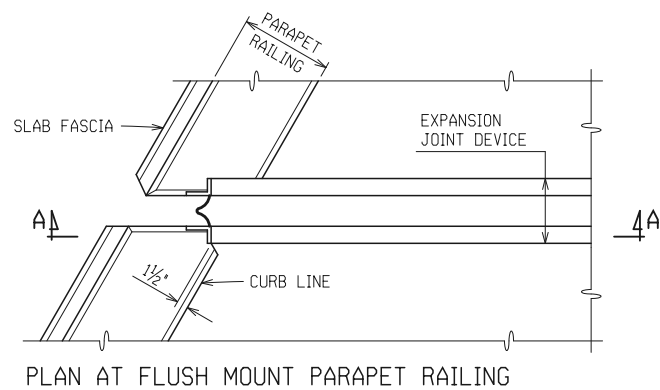
CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERING DIVISION
 ROSA PARKS/LAFAYETTE BRIDGE CPM
 TEMPORARY SUPPORT DETAILS

ISSUED FOR: DATE: BY:

JOB NO. DTE 2025-19T

SHEET 11

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



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.
STEELFLEX-SSA2	D.S. BROWN
STEELFLEX-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.

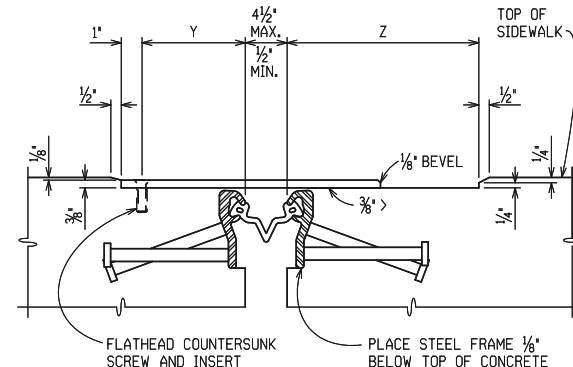
MATERIALS

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

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).

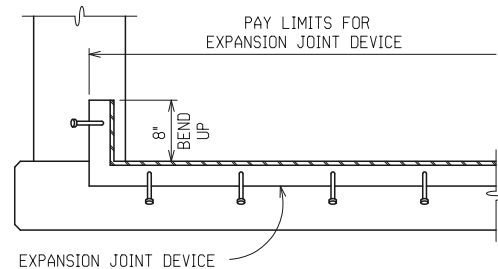
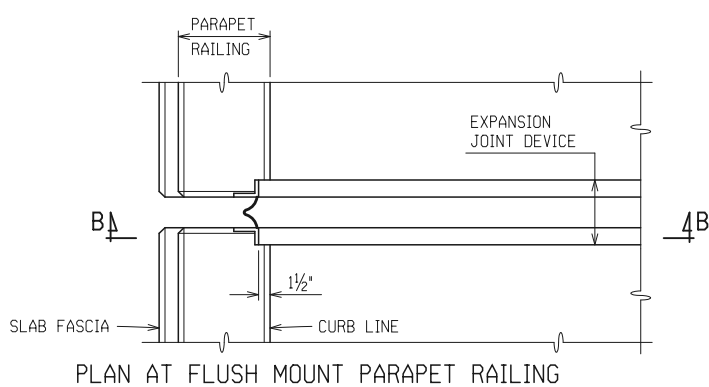
USE ASTM F 593 (TYPE 304) STAINLESS STEEL 3/4" DIAMETER FLATHEAD COUNTERSUNK SCREWS WITH 3/4" DIAMETER INSERTS.

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.



EXPANSION JOINT DETAILS WITH SIDEWALK-NO SKEW

NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED:

WADETRIM
500 Griswold, Suite 2000
Detroit, MI 48226
313.961.3850
FAX: 313.961.0888
www.wadetrिम.com

Building relationships on a foundation of excellence.

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION
ROSA PARKS/LAFAYETTE BRIDGE CPM
EXPANSION JOINT DETAILS

ISSUED FOR: DATE: BY:

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

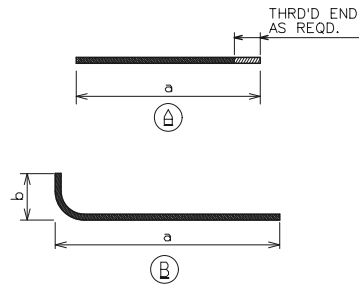
SHEET **12**

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

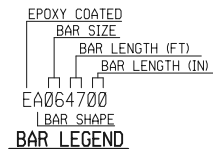
STEEL REINFORCING SCHEDULE

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

REV	DATE	DESCRIPTION	BY

NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND DATED:

WADETRIM
 500 Griswold, Suite 2500
 Detroit, MI 48226
 313.961.3850
 FAX: 313.961.0888
 www.wadetrिम.com

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

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