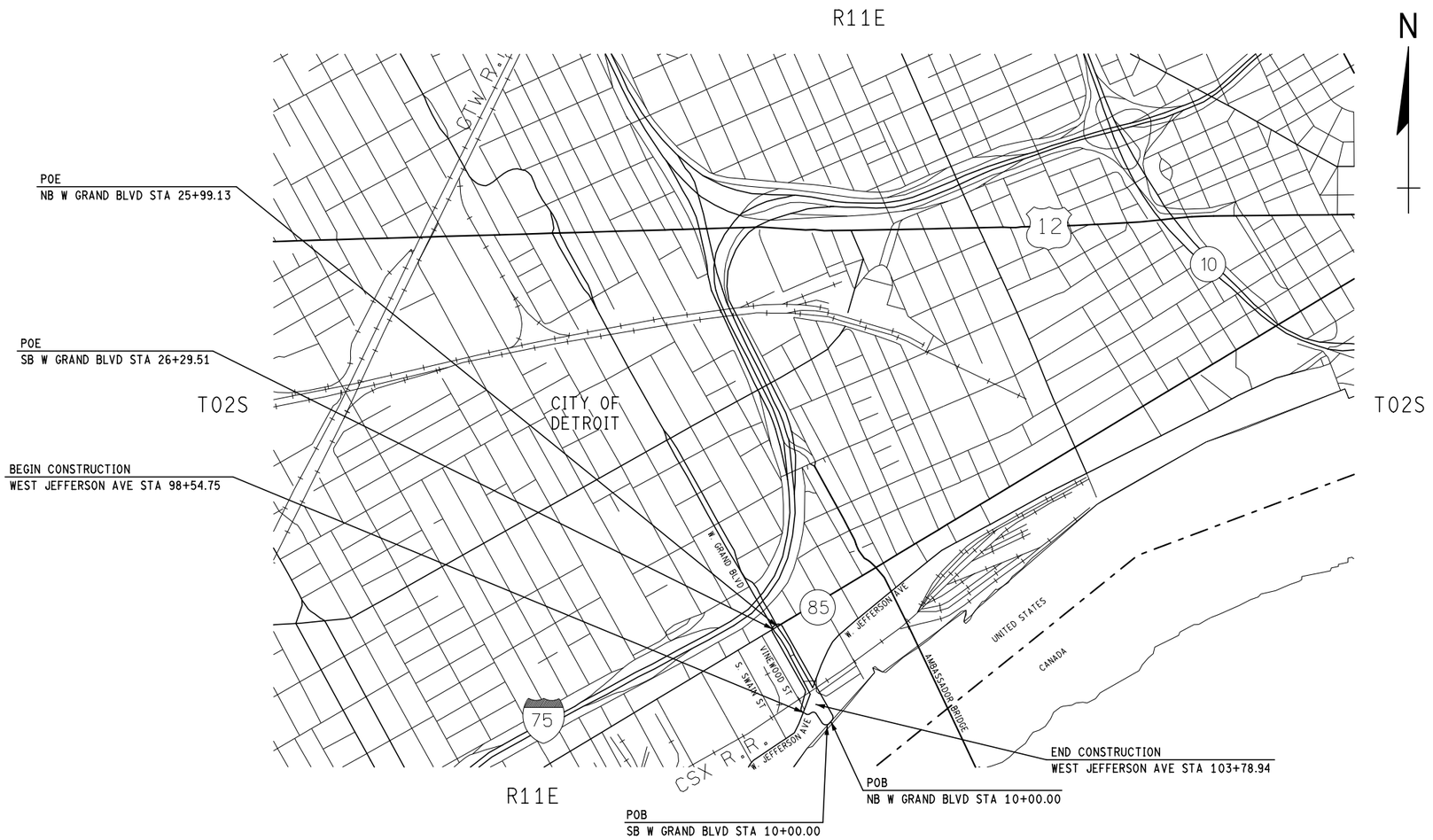
THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND THE CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERING DIVISION STANDARD SPECIFICATIONS FOR PAVING AND RELATED CONSTRUCTION (MARCH 2009)

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS

RIVERSIDE PARK
WEST GRAND BOULEVARD FROM M-85 TO THE DETROIT RIVER

ROAD	YEAR	TRAFFIC DATA ADT	DHV	COMM	SPEED DATA DESIGN	POSTED	LIMITS
W GRAND BLVD	2018	500	--	--	30	30	M-85 TO DETROIT RIVER
W JEFFERSON AVE	2010	200	--	--	30	30	SWAIN ST TO M-85

COUNTY KEY



THESE PLANS WERE PREPARED BY:

wsp

STATE OF MICHIGAN
CHRISTOS D. MELISTAS
ENGINEER
No. 57092
LICENSED PROFESSIONAL ENGINEER

5/24/21

CHRISTOS D. MELISTAS, P.E.
DATE

WSP MICHIGAN, INC.
500 GRISWOLD ST. SUITE 2600
DETROIT, MI 48226
313-963-5760

APPROVALS

RECOMMENDED FOR APPROVAL BY:

RICHARD DOHERTY, P.E. - CITY ENGINEER — DATE

CITY OF DETROIT

MILES: 0.31

CONTRACT FOR:
FULL DEPTH CONCRETE REPLACEMENT, HMA PAVING, RAILROAD REHABILITATION, SIDEWALK REPLACEMENT, STORM SEWER, LANDSCAPING, PAVEMENT MARKINGS, SIGNING, SITE AMENITIES, NEW STREET LIGHTING AND BIKE LANES.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp | Detroit | NO SCALE | FILE: | DATE: 05/24/21 | JN: PW-7031 RIVERSIDE PARK

TITLE SHEET	DRAWING	SHEET
RIVERSIDE PARK	RIV TITLE 001	1

PUBLIC UTILITIES

The existing utilities listed below and shown on these plans represent the best information available as obtained on our surveys. This information does not relieve the contractor of the responsibility to be satisfied as to it's accuracy and the location of existing utilities.

Name Of Owner	Type Of Utility
AT&T 17651 Michigan Ave Dearborn, MI 48126 Peter Wlotkowski Phone: (734) 516-3278 pw1678@att.com Derek Bulkley (Utility Relocation) db3451@att.com	Telephone For Adjusting Frames & Covers
City of Detroit Detroit Fire Department 1301 3rd Street Detroit, MI 48226 General: (313) 596-2900 Fax: (313) 224-4128 communityrelations@detroitmi.gov	KNOX Boxes & Fire Hydrants
City of Detroit Detroit Police Department 1301 3rd Street Detroit, MI 48226 General: (313) 596-2200 Fax: (313)596-1450 publicinfo@detroitmi.gov	Police Call Boxes
City of Detroit Detroit Water & Sewerage Department Contract Services Facility 6425 Huber Detroit, MI 48211 General: (313) 267-4863 Fax: (313) 842-6480	Water Mains & Sewers
City of Detroit Public Lighting Authority 400 Monroe Street, Suite 485 Detroit, MI 48226 (313) 324-8291	Street Lighting
City of Detroit Traffic Engineering, D.P.W. 2633 Michigan Avenue Detroit, MI 48207 General: (313) 224-1610 Fax: (313)224-1304 Prasad Nannapaneni (313) 628-5603 prasadn@detroitmi.gov Sunny Jacob (313) 628-5604 sunjac@detroitmi.gov	Pavement Markings, Signs & Traffic Signals
Comcast Sheila Schuch Phone: (248) 977-8996 sheila_schuch2@comcast.com	Cable
Crown Castle Fiber (Light Tower) Rick Sputa Phone: (585) 626-2330 Rick.sputa@crowncastle.com	Telecom
Detroit Public Lighting (URG) Jesse Qualls jqualls@urgllc.net	Street Lighting & Traffic Signals

1

PUBLIC UTILITIES (CONT.)

Name Of Owner	Type Of Utility
Detroit Thermal LLC 3575 E Palmer St Detroit, MI 48201 Ed LaRosa (313) 921-1922 Fax: (313) 921-1972	Steam Lines
DTE Southeast Planning & Design – Downtown Detroit One Energy Plaza Room 570 SB Detroit, MI 48226 Phone: (313) 235-4400 SEPD@dteenergy.com	Electric
DTE One Energy Plaza Detroit, MI 48226 Jeremy Childers Phone: (313) 971-1319	Gas
Extenet 3030 Warrenville Rd Lisle, IL 60532 William (Bill) Vorce Sr. Construction Manager Detroit/Pittsburgh Market Phone: (248) 882-4360 bvorce@extenetsystems.com Joseph Bzorek Project Engineering Manager Phone (724) 355-4208 jbzorek@extenetsystems.com noc@extenetsystems.com	Telecom
Great Lakes Water Authority North Administration Building 1st Floor CSF – Room One 6425 Huber Street Detroit, MI 48211 Anupam Kumar Phone: (313) 267-3698 anupam.kumar@glwater.org	Water
ITC 27175 Energy Way Novi, MI 48377 Chanelle Thomas (Underground Lines) Phone: (248) 946-3498 cjones01@itctransco.com Erin Keeler (Overhead Lines) Phone: (248) 946-3298 ekeeler@itctransco.com	Transmission
Lumen 19675 West 10 Mile Road Southfield, MI 48075 Dave Huckfeldt Phone: (517) 812-2592 dave.huckfeldt@lumen.com	Telecom
MCI/Verizon Business Mike Bruning Phone: (248) 794-7906 michael.bruning@verizonwireless.com	Telecom
Sign Shop 2425 Fenkell Detroit, MI 48238 Willie Riley (313) 628-2923 Fax: (313) 628-4966	Sign Removals & Installations

PUBLIC UTILITIES (CONT.)

Name Of Owner	Type Of Utility
Sprint/Nextel Gerry A. Crain Phone: (847) 445-1869 gerry.a.crain@sprint.com	Telecom
Windstream Communications 4074 S. Linden Road Flint, MI 48507 David H. Beggs Phone: (810) 249-4009 david.beggs@windstream.com	Telecom

SHEET INDEX

FUNDING CATEGORIES

Project Description
Category 0001 = 100% City of Detroit

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)																
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION									
1	6/4/21		LIGHTING CONTACT UPDATE													

NO SCALE		DATE: 05/24/21		PROJECT INFORMATION SHEET	DRAWING	SHEET
	FILE:		JN: PW-7031 RIVERSIDE PARK	RIVERSIDE PARK	RIV PROJ 001	2

NOTES APPLYING TO STANDARD PLANS

Where the following items are called for on plans, they are to be constructed according to the standard plan given below opposite each item unless otherwise indicated.

Title	Plan No.
CITY OF DETROIT STANDARDS	
TYPICAL JOINT LAYOUT FOR NON-REINFORCED CONCRETE PAVEMENT	C-4379
STANDARD CURB DETAILS	C-4380
DETAIL OF ALLEY RETURN AND DRIVE APPROACH	C-4384
RECONSTRUCTION OF EXISTING SUMP MANHOLES AND NEW CATCH BASIN INSTALLATIONS	C-4390
FLAT TYPE GRATE AND FRAME	C-4392
SIDEWALK JOINTING STANDARD	C-4462
PORTABLE BARRICADES	C-4552
BARRICADES AND LIGHTED ARROWS	C-4730
CATCH BASINS “A” AND “B” AND FLAT GRATE AND FRAME	C-5028
SIDEWALK RAMP AND DETECTABLE WARNING DETAILS (R-28-I WITH CITY OF DETROIT THICKNESS AMENDMENT)	
CURB, CONC, DETAIL CD, MODIFIED	
HMA APPROACH, MODIFIED	
DWSD MANHOLE ERGO ASSEMBLY	
DWSD MANHOLE 5000 FRAME	
CATCH BASIN 5000 M4 GRATE	
CATCH BASIN 5000Z4 5000M4 ASSEMBLY	
CATCH BASIN 5000 ASSEMBLY	
A.D.A. CATCH BASIN 5000M5 GRATE	
A.D.A. CATCH BASIN 5000Z4 5000M5 ASSEMBLY	
DWSD MANHOLE ERGO COVER	
DWSD MANHOLE FRAME	
FIELD MARKING STANDARDS (STD-01 TO STD-09)	
DWSD STANDARDS	
INLET PROTECTION FABRIC DROP	
SOIL EROSION SEDIMENTATION CONTROL, TEMPORARY FACILITIES	
SOIL EROSION AND SEDIMENTATION CONTROL, MAINTENANCE FACILITIES	
SOIL EROSION AND SEDIMENTATION CONTROL, GENERAL NOTES	
SOIL EROSION AND SEDIMENTATION CONTROL MEASURES (FROM 1-33)	
UTILITY CROSSING	
STANDARD MANHOLE PRECAST	
MANHOLE FRAME AND COVER WITH LOGO - SEWER	
MANHOLE WATER CUSHION	
MANHOLE, ASSEMBLY	
MANHOLE, EXTERIOR DROP	
MANHOLE, INTERIOR DROP	
MANHOLE, OVER EXISTING SEWER	
THRUST BLOCK, HORIZONTAL BEND (TRADITIONAL DWSD SIZING)	
THRUST BLOCK, TEES (TRADITIONAL DWSD SIZING)	
THRUST BLOCK, PLUGS AND CAPS (TRADITIONAL DWSD SIZING)	
THRUST BLOCK, VERTICAL BEND (TRADITIONAL DWSD SIZING)	
HYDRANT, 6 INCH INSTALLATION OFFSET	
HYDRANT, 6 INCH INSTALLATION STRAIGHT AWAY	
CLEANOUT	
SEWER PIPE JOINT DETAIL	
SEWER PIPE CONNECTION WITH MANHOLE	
MICHIGAN DEPARTMENT OF TRANSPORATION (MDOT) STANDARDS	
ROAD	
DRAINAGE STRUCTURES	R-1-G
COVER J	R-14-D
CURB RAMP AND DETECTABLE WARNING DETAILS	R-28-J*
DRIVEWAY OPENINGS & APPROACHES AND CONCRETE SIDEWALK	R-29-I
CONCRETE CURB AND CONCRETE CURB & GUTTER	R-30-G
ISOLATION JOINT DETAILS	R-37-B
TRANSVERSE PAVEMENT JOINTS (PLAIN CONCRETE PAVEMENT)	R-39-K
LOAD TRANSFER ASSEMBLIES FOR TRANSVERSE JOINTS	R-40-H
LONGITUDINAL PAVEMENT JOINTS	R-41-H
TYPICAL JOINT LAYOUTS FOR CONCRETE PAVEMENT	R-42-F
LOCATION OF TRANSVERSE JOINTS IN PLAIN CONCRETE PAVEMENT	R-43-I
GRANULAR BLANKET, UNDERDRAINS, OUTLET ENDINGS FOR UNDERDRAINS, AND SEWER BULKHEADS	R-80-E
UTILITY TRENCHES	R-83-C
TRACK CROSSINGS	R-121-B
RAILROAD CROSSING SIGNALS	R-122-C
SIGNING	
STANDARD SIGN INSTALLATIONS	SIGN-100-G
RAILROAD CROSSING SIGN	SIGN-130-B
PLACEMENT OF D3-1 SIGNS ABOVE R1-1	SIGN-140-A
SIGN SUPPORT SELECTION CHARTS	SIGN-150-D
STEEL POSTS	SIGN-200-E
MISCELLANEOUS SIGN CONNECTION DETAILS	SIGN-740-B
PAVEMENT MARKINGS	
RAILROAD GRADE CROSSING PAVEMENT MARKINGS	PAVE-965-D
WORK ZONE DEVICES	
GROUND DRIVEN SIGN SUPPORTS FOR TEMP SIGNS	WZD-100-A *
TEMPORARY TRAFFIC CONTROL DEVICES	WZD-125-E *

* Denotes Special Detail

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NO SCALE

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JN: PW-7031
RIVERSIDE PARK

PROJECT INFORMATION SHEET
RIVERSIDE PARK

DRAWING: RIV PROJ 002

SHEET: 3

SURVEY

GENERAL

- ALIGNMENT POINT MONUMENT
- MONUMENT BOX

CONTROL

- CP CONTROL POINT
- BM BENCHMARK
- REFERENCE - GPS
- REFERENCE - NGS
- REFERENCE - USGS

BOUNDARY

- CITY LIMIT - MAP
- CITY LIMIT
- PARCEL-L — PARCEL - LEGAL
- PARCEL-NL — PARCEL - NON-LEGAL
- PLAT-L — PLAT - LEGAL
- PLAT-NL — PLAT - NON-LEGAL
- ROW - FREE ACCESS
- ROW - LIMITED ACCESS
- SEC — SECTION LINE
- SEC 1/4 — SECTION LINE - QUARTER
- SEC 1/8 — SECTION LINE - EIGHTH
- SEC 1/16 — SECTION LINE - SIXTEENTH
- TOWNSHIP LINE (MAP)
- CONCRETE MONUMENT
- CONTIGUOUS PROPERTY SYMBOL
- PARCEL CORNER - CAPPED IRON
- PARCEL CORNER - IRON PIN
- PARCEL CORNER - IRON PIPE
- PARCEL CORNER - NO ID
- 123456 PARCEL NUMBER BOX
- PLAT CORNER
- PROPERTY OWNERSHIP ARROW
- PROPERTY OWNERSHIP ARROW - DOUBLE
- ROW ROW MONUMENT
- SECTION CORNER - CENTER
- SECTION CORNER - MEANDER
- SECTION CORNER - QUARTER
- SECTION CORNER - QUARTER-HALF
- SECTION CORNER - SECTION
- SECTION CORNER - SECTION-HALF
- SECTION CORNER - SIXTEENTH
- SECTION CORNER - WITNESS

MONUMENT PRESERVATION

- PRESERVE — PRESERVE MONUMENT
- PROTECT — PROTECT MONUMENT

GENERAL LABELING

GENERAL

- LEFT TURN ARROW
- TRAFFIC FLOW ARROW

REMOVAL

- A — ABANDON
- B — BULKHEAD
- C — CLEARING
- R — REMOVE
- SALV — SALVAGE
- S — SAVE

CONSTRUCTION

- ADJ — ADJUST
- ADJ-B — ADJUST - STRUC COVER WITH TYPE
- ADJ-B/O — ADJUST - BY OTHERS

REMOVAL AND CONSTRUCTION

- REL-1 — RELOCATE - WITH CASE NUMBER
- REL-B/O — RELOCATE - BY OTHERS

CONSTRUCTION LIMITS

- SSL SSL — SLOPE STAKE LINE

BORINGS

- BH# — BORING

STRUCTURES

- BEAM UNDERCLEARANCE
- REFERENCE POINT
- S01 OF 12345 — STRUCTURE NO. + CONTROL SEC. LABEL

VEGETATION

- BRUSH LINE
- HEDGE LINE
- TREE LINE - CANOPY OR TRUNK
- TREE LINE - TRUNK (TRUNK LINE)
- SHRUB
- TREE - CONIFER
- TREE - DECIDUOUS
- TREE - STUMP

ENVIRONMENTAL

- 26 — EROSION CONTROL - SILT FENCE
- WETLAND - LEGAL
- WETLAND - NON-LEGAL
- CONTAMINATION - MONITORING WELL
- 12 — EROSION CONTROL NUMBER
- EROSION CONTROL - RIPRAP
- W.T. 12' — WATER TABLE - PLAN NOTE
- WETLAND - SPOT EL
- POTENTIALLY CONTAMINATED SITE

ROADSIDE / SITE

- ANTENNA
- BIG ROCK
- FLAG POLE
- PICNIC STOVE
- PICNIC TABLE
- SATELLITE DISH

NOTE:

EXISTING ITEMS ARE REPRESENTED BY THIN LINE WEIGHTS.
PROPOSED ITEMS ARE REPRESENTED BY HEAVIER LINE WEIGHTS.

RAILROAD

- TRACK
- CROSSING - GATE
- RR CROSSING - SIGNAL BOX
- CROSSING - SIGNAL FLASHING
- CROSSING - SYMBOL

SIGNS

- POST - DOUBLE
- POST - SINGLE
- STRUCTURE - CANTILEVER (EXISTING)
- STRUCTURE - CANTILEVER
- STRUCTURE - TRUSS (EXISTING)
- STRUCTURE - TRUSS
- SS SUSPENDED (EXISTING)

MAINTAINING TRAFFIC

- TYPE III BARRICADE
- CHANNELIZING DEVICE - CONE
- CHANNELIZING DEVICE - DRUM
- LIGHT - HIGH INTENSITY TYPE B
- LIGHT - STEADY BURN TYPE C
- LIGHTED ARROW PANEL - BAR
- LIGHTED ARROW PANEL
- PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC REGULATOR
- TEMPORARY SIGN
- TEMPORARY TRAFFIC SIGNAL
- WORK AREA

BARRIERS

- CABLE BARRIER - NOT TO SCALE
- CABLE BARRIER - TRUE SCALE
- CONCRETE BARRIER - DOUBLE FACE
- CONCRETE BARRIER - SINGLE FACE
- FENCE
- GUARDRAIL - NOT TO SCALE
- GUARDRAIL - TRUE SCALE
- NOISE BARRIER
- FENCE POST
- 123 — GUARDRAIL RUN NUMBER
- IMPACT ATTENUATOR
- POST - MAILBOX
- POST - NO ID

SURFACING

REMOVAL

- CONCRETE RUBBLIZING OR HMA CRUSH & SHAPE
- HMA COLDMILLING
- HMA SURFACE REMOVAL AND / OR PAVEMENT REMOVAL

PROPOSED

- AGGREGATE APPROACH
- BRIDGE APPROACH
- HMA APPROACH
- MISCELLANEOUS CONCRETE

SIDEWALK

- SIDEWALK - REMOVAL
- SIDEWALK - CONCRETE RAMP
- SIDEWALK - DETECT. WARNING SURF.
- SIDEWALK - LANDING
- SWR-F — SIDEWALK - RAMP LABEL

TYPICAL SECTION

- CONCRETE - PROPOSED
- HMA - PROPOSED

CURB & GUTTER

- CURB & GUTTER REMOVAL

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
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wsp | City of Detroit

NO SCALE

DATE: 05/24/21

FILE:

JN: PW-7031
RIVERSIDE PARK

LEGEND SHEET
RIVERSIDE PARK

DRAWING: RIV LEGEND 001

SHEET: 4

UTILITIES

COMBINED SEWER

- COMBINED SEWER
- COMBINED SEWER - OUT OF SERVICE
- COMBINED SEWER - TO BE TAKEN OUT OF SERVICE
- COMBINED SEWER - TO BE REMOVED

COMMUNICATION

- FO — FIBER OPTIC
- FO — FIBER OPTIC - OUT OF SERVICE
- FO-OH — FIBER OPTIC - OVERHEAD
- FIBER OPTIC MARKER
- C — CABLE
- C — CABLE - OUT OF SERVICE
- C-OH — CABLE - OVERHEAD
- CABLE MARKER
- CABLE PEDESTAL
- T — TELEPHONE
- T — TELEPHONE - OUT OF SERVICE
- T-OH — TELEPHONE - OVERHEAD
- TELEPHONE BOX
- TELEPHONE MANHOLE
- TELEPHONE PEDESTAL

FUEL / PETROLEUM

- GASOLINE FILLER PIPE
- GASOLINE PUMP
- GASOLINE UNDERGROUND TANK
- PETRO — PETROLEUM PIPELINE
- PETRO — PETROLEUM PIPELINE - OUT OF SERVICE
- PETROLEUM PIPELINE MARKER
- PETROLEUM WELL
- PROPANE TANK

NATURAL GAS

- G — GAS LINE
- G — GAS LINE - OUT OF SERVICE
- MARKER
- VALVE
- WELL

SANITARY SEWER

- MANHOLE WITH COVER (DIA VARIES)
- SEWER
- SEWER - OUT OF SERVICE
- SEWER - TO BE TAKEN OUT OF SERVICE
- SEWER - TO BE REMOVED

WATER

- FIRE HYDRANT
- GATE VALVE AND BOX
- GATE VALVE IN WELL
- IRRIGATION CONTROL VALVE
- IRRIGATION SPRINKLER HEAD
- SERVICE METER
- SERVICE SHUTOFF
- WATER WELL
- I — IRRIGATION
- W — WATER MAIN
- W — WATER MAIN - OUT OF SERVICE
- W — WATER MAIN - TO BE TAKEN OUT OF SERVICE
- W — WATER MAIN - TO BE REMOVED

STEAM

- STEAM MANHOLE COVER
- STEAM MANHOLE (DIA VARIES)
- STEAM — STEAM
- STEAM — STEAM - OUT OF SERVICE

GENERIC EXISTING UTILITIES

- CATCH BASIN COVER
- MANHOLE COVER
- MARKER
- PEDESTAL
- SEWER CLEANOUT ACCESS
- STRUCTURE BOTTOM (DIA VARIES)
- UTILITY BOX
- U — UTILITY

DRAINAGE

- CATCH BASIN W/ COVER (DIA VARIES)
- 12 — DRAINAGE STRUCTURE NUMBER
- DRAIN CASTING
- DROP INLET
- END SECTION (SIZE VARIES)
- FLOW DIRECTION ARROW
- HEADWALL (SIZE VARIES)
- MANHOLE W/ COVER (DIA VARIES)
- MANHOLE BASE W/ COVER (SIZE VARIES)
- MANHOLE TEE W/ COVER (SIZE VARIES)
- OUTLET HEADWALL (SIZE VARIES)
- CULVERT - EXISTING
- CULVERT (SIZE VARIES)
- DITCH CENTERLINE
- STORM SEWER - EXISTING
- STORM SEWER
- STORM SEWER - TO BE REMOVED
- UNDERDRAIN
- WATER EDGE

NOTE:

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SPECIAL LEGEND THIS PROJECT

- BRICK PAVERS - REMOVAL & SALVAGE

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LEGEND SHEET
RIVERSIDE PARK

DRAWING	SHEET
RIV LEGEND 002	5

ELECTRICAL

- CONTROLLER CABINET - PAD MOUNTED
- HANDHOLE
- MANHOLE
- POLE UTILITY - EXISTING
- POLE UTILITY
- TRANSFORMER - PAD MOUNTED
- TRANSFORMER - POLE MOUNTED
- CABLE
- CABLE - TO BE REMOVED
- CABLE OVERHEAD
- CABLE OVERHEAD - TO BE REMOVED
- CABLE IN CONDUIT
- CABLE IN CONDUIT - TO BE REMOVED
- CABLE IN CONDUIT - DIRECTIONAL BORE

ARCHITECTURAL

- EXIT SIGN WITH EMERGENCY LIGHT
- LIGHT RECESSED FIXTURE
- MOTOR
- OUTLET BOX
- OUTLET SINGLE
- OUTLET TELEPHONE
- SERVICE DISCONNECT
- SERVICE METER
- SWITCH
- SWITCH THREE WAY
- WALL BRACKET FIXTURE

LIGHTING

- CONTROL PANEL - EXISTING
- CONTROL PANEL
- R&S LIGHT STANDARD EXISTING - TO BE REMOVED & SALVAGED
- LIGHT STANDARD DOUBLE ARM - EXISTING
- LIGHT STANDARD DOUBLE ARM
- LIGHT STANDARD POST TOP - EXISTING
- LIGHT STANDARD POST TOP
- LIGHT STANDARD SINGLE ARM - EXISTING
- LIGHT STANDARD SINGLE ARM
- LIGHT POLE - TEMPORARY
- LUMINAIRE WALL MOUNTED UNDERBRIDGE - EXISTING
- LUMINAIRE WALL MOUNTED UNDERBRIDGE
- T LIGHTING UNIT - EXISTING
- T LIGHTING UNIT

ITS / SIGNALS

- DYNAMIC MESSAGE SIGN - EXISTING
- DYNAMIC MESSAGE SIGN
- ENVIRONMENTAL SENSOR STATION SITE
- FIBER OPTIC SPLICE CABINET
- HANDHOLE, ROUND, 3 FOOT DIAMETER
- HANDHOLE, ROUND, COMMUNICATIONS
- HANDHOLE, ROUND, ELECTRIC
- HANDHOLE, TYPE D
- ITS CABINET - EXISTING
- ITS CABINET
- MICROWAVE VEHICLE DETECTION SYSTEM - EXISTING
- MICROWAVE VEHICLE DETECTION SYSTEM
- MICROWAVE VEHICLE DETECTION SYSTEM ZONE COVERAGE - EXISTING
- MICROWAVE VEHICLE DETECTION SYSTEM ZONE COVERAGE
- SPUN CONCRETE POLE - EXISTING
- SPUN CONCRETE POLE
- SURVEILLANCE SYSTEM - EXISTING
- SURVEILLANCE SYSTEM
- WIRELESS LINK - EXISTING
- WIRELESS LINK
- ITS COMMUNICATIONS CABLE IN CONDUIT
- ITS COMMUNICATIONS CABLE IN CONDUIT - TO BE REMOVED

- ANTENNA
- CASE SIGN (1-WAY OR 2-WAY)
- CASE SIGN (4-WAY)
- DEDICATED SHORT RANGE COMMUNICATIONS
- CONTROLLER CABINET - POLE MOUNTED
- CONTROL EMERGENCY PREEMPTION OPTICOM
- DILEMMA ZONE DETECTION
- GLOBAL POSITIONING SYSTEM MODULE
- GUY ANCHOR
- PEDESTRIAN PEDESTAL
- PEDESTRIAN PUSHBUTTON
- POLE MAST ARM (LENGTH VARIES) - EXISTING
- POLE MAST ARM (LENGTH VARIES)
- POLE STRAIN
- ROAD SIGN W/ FLASHING SIGN OPTICAL (1-WAY)
- SIGNAL HANDHOLE - POLYMER CONCRETE
- SIGNAL HANDHOLE - 2 FOOT ROUND
- SIGNAL HANDHOLE - 3 FOOT ROUND
- SIGNAL HANDHOLE - 2 FOOT SQUARE
- TS SIGNAL HANDHOLE - 4 FOOT SQUARE
- SIGNAL HEAD PEDESTRIAN - EXISTING
- SIGNAL HEAD PEDESTRIAN 1-WAY
- SIGNAL HEAD PEDESTRIAN 2-WAY
- SIGNAL HEAD VEHICLE 1-WAY - EXISTING
- SIGNAL HEAD VEHICLE 2-WAY - EXISTING
- SIGNAL HEAD VEHICLE 3-WAY - EXISTING
- SIGNAL HEAD VEHICLE 4-WAY - EXISTING
- SIGNAL HEAD VEHICLE 1-WAY
- SIGNAL HEAD VEHICLE 2-WAY
- SIGNAL HEAD VEHICLE 3-WAY
- SIGNAL HEAD VEHICLE 4-WAY
- SIGNAL HEAD VEHICLE BAGGED
- SIGNAL HEAD VEHICLE PROGRAMMABLE
- VEHICLE DETECTION CAMERA
- VEHICLE DETECTION CAMERA - HEMISPHERICAL
- VEHICLE DETECTION LOOP
- VEHICLE DETECTION - RADAR
- WIRELESS VEHICLE DETECTION RADIO RECEIVER
- WIRELESS VEHICLE DETECTION RADIO REPEATER
- WIRELESS VEHICLE DETECTION SENSOR - EXISTING
- WIRELESS VEHICLE DETECTION SENSOR

CABLING / WIRING DIAGRAM

- CIRCUIT BREAKER
- COILED WIRE
- FUSE
- FUSE SWITCH
- GROUND
- ILLUMINATED CASE SIGN
- METER
- SERVICE DISCONNECT
- SIGNAL HEAD

NOTE:

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DETROIT RIVER

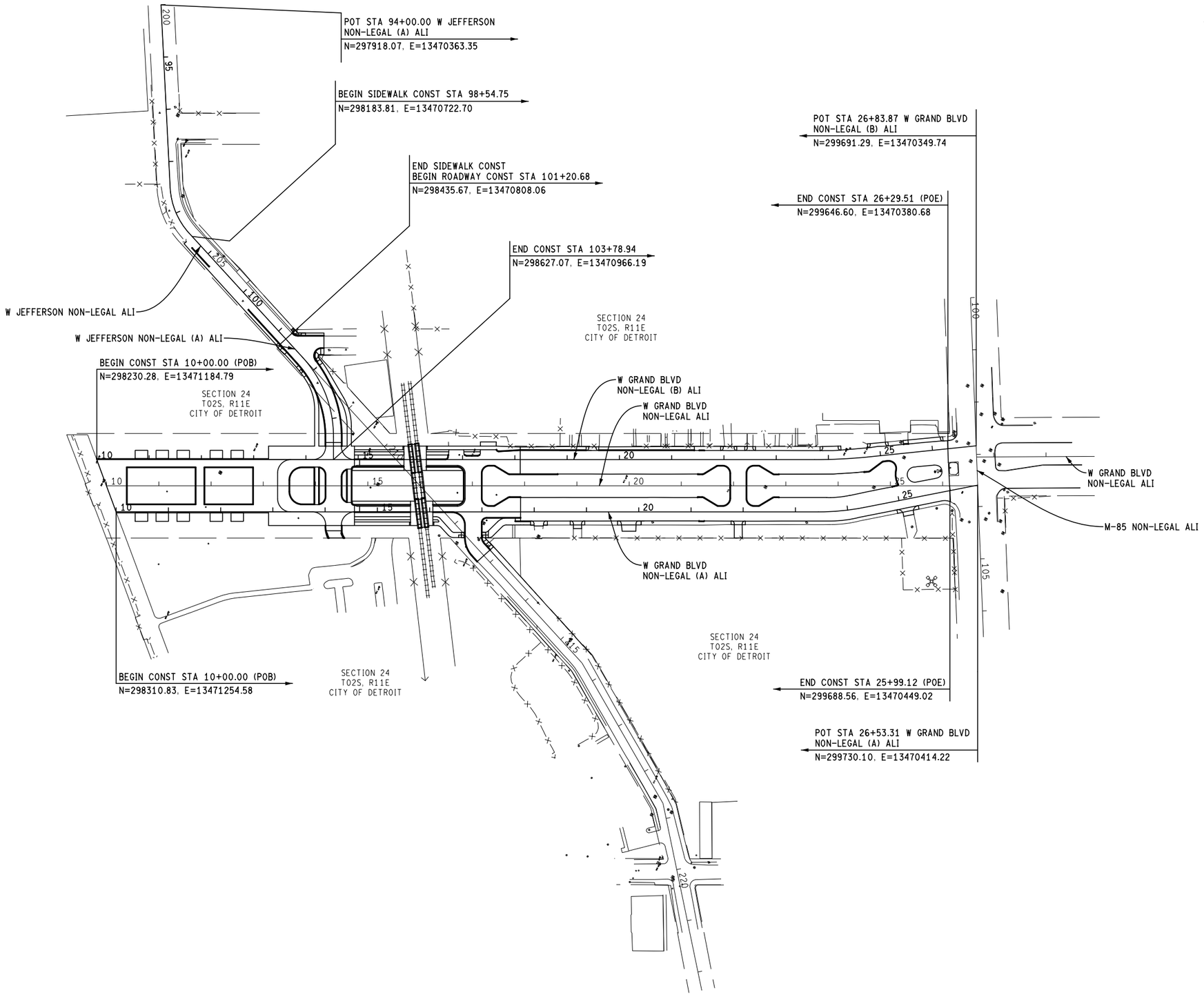
W JEFFERSON AVE

CSX RR

M-85

SWAIN ST

W GRAND BLVD



24TH ST

DETROIT RIVER

CSX RR

W JEFFERSON AVE

M-85

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

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Detroit

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FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

VICINITY SHEET
RIVERSIDE PARK

DRAWING: RIV VIC 001

SHEET: 7

GENERAL NOTES

UTILITIES

MISS DIG/UNDERGROUND UTILITY NOTIFICATION
For the protection of underground utilities and in conformance with MCL 460.171 et seq, the Contractor shall contact MISS DIG System, Inc. by phone at 811 or 800-482-7171 or via the web at either elocate.missdig.org for single address or rte.missdig.org, a minimum of 3 work days prior to excavating, excluding weekends and holidays.

MDOT's Roadway Lighting, Traffic Signals, ITS and other miscellaneous electrical systems are not a part of Miss Dig. ITS system includes traffic cameras, changeable message signs, detection equipment, fiber optic cable, other sensors and related communication cables and equipment in, over, or along the roadway. Contractors shall contact the following at least 5 work days in advance for staking requests, excluding weekends and holidays. Submit MDOT Form 5300 (https://mdotjboss.state.mi.us/webforms/GetDocument.htm?fileName=5300.pdf) to respective region email address(es) on the form. Note that these are not emergency contacts for damage to utilities.

LIGHTING AND TRAFFIC SIGNAL CABLE (within the City of Detroit): 1
Public Lighting Authority: (313) 324-8291 (Street Lighting)
Traffic Engineering Division: (313) 224-1610 (Traffic Signals)

MDOT ELECTRICAL SYSTEMS
Contractors shall contact the maintenance representative at the MDOT Region / TSC Office to have MDOT electrical systems staked.

ROW / REAL ESTATE

PROPERTY OWNERS
The names of property owners shown on the plans are for information only, and their accuracy is not guaranteed.

MARKETABLE TIMBER
Marketable timber shall be handled in accordance with Section 201.03 of the 2012 Standard Specifications for Construction.

LAWN SPRINKLER SYSTEMS AND LANDSCAPING
Owners of existing lawn sprinkler systems and/or landscaping shall be notified (in writing with a copy sent to the Engineer) by the Contractor two weeks in advance of any work to be done that will affect those systems and/or landscaping. If the property owner fails to relocate the lawn sprinkler system prior to the Contractor beginning work, and if the Contractor cuts the system during the construction, the Contractor shall cap the system pipe and witness the location of the cap with a wooden stake for the property owner's use. The Contractor shall place the salvaged sprinkler heads on the property owner's property. If the property owner fails to relocate the landscaping prior to the Contractor beginning work, the Contractor shall carefully salvage the landscaping items and stockpile them on the property owner's property for the property owner. Any other modification to the lawn sprinkler systems and/or landscaping is the responsibility of the owner and is not part of this contract. This work is included in other items of the project.

SURVEY

ADJUSTING MONUMENT BOXES
All government corners on this project shall be preserved, whether shown or not. It may be necessary to place or adjust monument boxes, as required.

DETAILED GRADES

SIDEWALK AND SIDEWALK RAMP GRADES
All sidewalk and sidewalk ramp grades shall be staked according to Standard Plan R-28 series and as shown on the plans. Prior to constructing the sidewalk and sidewalk ramps, the Engineer will verify the grades and authorize the construction of the sidewalk and sidewalk ramps.

EARTHWORK

EARTHWORK
Earthwork quantities are computed by the average end area method based upon ground survey information.

EARTH DISTURBANCE LIMITS
The earth disturbance limit for this project will be limited to 10' beyond the slope stake line or to the ROW line whichever is less for all areas except for wetland areas. For areas adjacent to wetlands, the earth disturbance limit will be limited to the slope stake line. Restoration measures have been included in this set of plans for the approved areas of disturbance. The Contractor shall submit an earth change plan for any work beyond the approved limits to the Engineer to review for approval prior to the disturbance. All costs for obtaining and executing an approved earth change plan, including restoration, shall be at the Contractor's expense.

SOIL EROSION MEASURES
Appropriate soil erosion and sedimentation control measures shall be in place prior to earth-disturbing activities. Place turf establishment items as soon as possible on potential erodable slopes as directed by the Engineer. Critical ditch grades shall be protected with either sod or seed/mulch or mulch blanket as directed by the Engineer.

BASES

AGGREGATE BASE
Aggregate bases shall use aggregate 21AA, unless otherwise specified.

DRAINAGE

ILLICIT CONNECTIONS TO STORM WATER SYSTEM
Connections to existing storm conveyance systems not shown on the plans must be reconnected with minimal interruption in service. Size, type and location by station and offset and any suspect illicit discharge observed shall be reported to the Engineer prior to reconnecting. Contractor shall proceed as directed by the Engineer.

TEMPORARY BULKHEADS
Temporary bulkheads may be required for the part width construction of the culverts and sewers. All cost associated with the temporary bulkheads are included in the item of the pipe.

PAVEMENT

PAVEMENT AND HMA SURFACE REMOVAL QUANTITIES
Pavement and HMA Surface removal as shown on the plans will be at the discretion of the Engineer. If in his/her judgment, areas of pavement may be left in place, or additional areas added to provide the proper cross-section and base. Changes will be made in the quantities.

SOIL BORINGS AND/OR PAVEMENT CORES
The soil boring logs and/or pavement cores represent point information. No inference should be made that subsurface or pavement conditions are the same at other locations.

CONCRETE HAND FINISHING
Hand finishing of concrete pours to be struck off and consolidated by hand methods will be permitted on variable width lanes and lanes formed by flexible forms for short radius curves, as directed by the Engineer.

LANDSCAPING

Existing vegetation shall not be damaged during construction operations, per the 2012 Standard Specifications for Construction.

All equipment to be used must be approved by the Engineer prior to beginning work.

Storage of equipment and materials will be restricted to areas designated by the Engineer. No equipment is permitted within the drip line of existing trees to remain.

Branches of all trees to be saved shall not be removed or damaged by construction equipment. If removal of lower branches is necessary, contact the City of Detroit for proper methods.

Do not trench within the drip line of existing trees to remain unless specifically approved by the Engineer.

Contractor shall promptly restore any property damage at no expense to the City of Detroit.

All excavated material will become the property of the Contactor. Any excavated material not used on the project will be removed from the site and disposed of in accordance with section 205.03.P. of the 2012 Standard Specification for Construction and any applicable state and/or local ordinances.

No cereal rye seeding shall be used on this project.

Protect existing sidewalks from damage.

Plant material, soil, fertilizer and mulch will be inspected/approved by the Engineer or the Landscape Architect prior to installation. Plant inspection may occur at the nursery source or when plants arrive on site.

Remove unacceptable plants that fail inspection. Remove entire plant (including root ball) and dispose of offsite. Restore planting hole to existing conditions according to Sections 107.7 and 816 of the 2012 Standard Specifications for Construction.

Final staking may be adjusted to avoid conflicts with utilities.

SIGNS

GENERAL
All signs shall be installed, removed and/or salvaged according to the current edition of "Michigan Manual on Uniform Traffic Control Devices" and the current edition of Michigan Department of Transportation (MDOT) "Standard Specifications for Construction."

All signs on the plans or in the log that do not have a recommendation are to be retained.

EXISTING SIGN RELOCATION
Any permanent signs requiring relocation due to Contractor operations shall be salvaged and reset by the Contractor at locations designated by the Engineer. Signs and posts damaged during the removal and storage operations shall be replaced with new signs and posts. The cost of this work shall be borne by the Contractor.

PLAN SCALE
The final plans submitted with the proposal are not to scale. Where proposed on plan sheets, the signs and structures shall be fabricated in accordance to Typical Plans, Standards, and/or Details at locations described.

SIGN LAYOUT
Sign layouts shall be according to the current English edition of "Standard Highway Signs" manual or as detailed in plans. Legend length shall be determined using the "SignCAD" software.

SHEETING
Handling and installation of all signs shall conform to the sheeting manufacturer's specifications and guidelines.

Splice sheeting used for Type I signs with a 3" overlap.

Signs that have wrinkled or twisted sheeting may be rejected.

SIGN INSTALLATION
When attaching signs to supports, tighten the nut, not the bolt head.

Nylon washers shall be placed between the steel washer and the sign face sheeting. The nylon washers are to be considered part of the attaching devices and hardware. Nylon washers shall have a 3/8-inch inner diameter, a 7/8-inch outer diameter and a 1/16-inch thickness.

The Contractor shall attach a date sticker to the back of all signs installed on the contract.

SIGNALS

MAINTAINING AGENCY CONTACT INFORMATION
- MDOT: Statewide Signal Shop (517-322-3360)
- Wayne County Department of Public Services: (734-955-2346)
- City of Detroit: Traffic Engineering Division: (313-224-1610)

FACILITIES NOT ON PLANS
Existing O.H. & T.S. facilities are not necessarily shown on plans.

POLE BAND CLAMP ACCEPTANCE
The current basis of acceptance for this material is now part of the QPL (Qualified Product List). This can be found in the materials Acceptance Requirements Table, published in the MQAP and repeated for convenience in the Materials Source Guide.

PROJECT SPECIFIC NOTES

TYPICAL SECTIONS
Existing typical sections are based on soil borings and represent point information. No inference should be made that subsurface or pavement conditions are the same at other locations.

AUDIO-VISUAL FILMING
An audio-visual filming of the project conditions as described in the unique special provision must be completed before and after construction.

RAILROAD
Refer to the CSX Transportation Public Project Information Manual (https://www.csx.com/index.cfm/library/files/about-us/property/public-project-manual/) for additional requirements needed for working on/above/adjacent to CSX Transportation Inc. (CSXT). Specific sections that pertain to this project are: Special Provisions for Construction near CSXT Property, Construction Submission Criteria, and Insurance Requirements for Public Projects.

Contractor access will be limited to the immediate project area only. The CSXT right-of-way outside the project area may not be used for Contractor access to the project site.

The Contractor may not use CSXT right-of-way for storage of materials or equipment during construction without prior CSXT approval. The CSXT right-of-way must remain clear for railroad use at all times. Equipment may not be positioned to block the railroad access road, track area or any part of the CSXT right-of-way without prior CSXT approval.

The Contractor will provide documentation to the Engineer detailing that all railroad coordination requirements have been satisfied. The Contractor will provide to the Engineer copies of the fully executed CSXT Right of Entry Permit and supplemental certificates of insurance complying with Coordination Clause for Work on CSX Railroad Property

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)													
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION						
1	6/4/21		LIGHTING CONTACT UPDATE										

NO SCALE		DATE: 05/24/21		NOTE SHEET	DRAWING	SHEET
			JN: PW-7031	RIVERSIDE PARK	RIV NOTE 001	8
	FILE:		RIVERSIDE PARK			

and Special Provision for Railroad Insurance Requirements. Periodically, throughout the project duration, the Contractor will be required to meet, discuss and, if necessary, take immediate action at the discretion of CSXT personnel and/or their authorized Representative, to comply with provisions of the CSXT Right of Entry Permit and these specifications.

The Contractor must not allow NB traffic across the CSX W Grand Blvd grade crossing surface during construction unless directed by the Engineer and approved by CSXT. The Contractor will provide to the Engineer, copies of the written approval provided by CSXT allowing movement of NB traffic across the CSX W Grand Blvd grade crossing surface during construction.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)												
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION					
1	6/4/21		LIGHTING CONTACT UPDATE									

NO SCALE		DATE: 05/24/21		NOTE SHEET	DRAWING	SHEET
			JN: PW-7031	RIVERSIDE PARK	RIV NOTE 002	9
	FILE:		RIVERSIDE PARK			

MISCELLANEOUS QUANTITIES

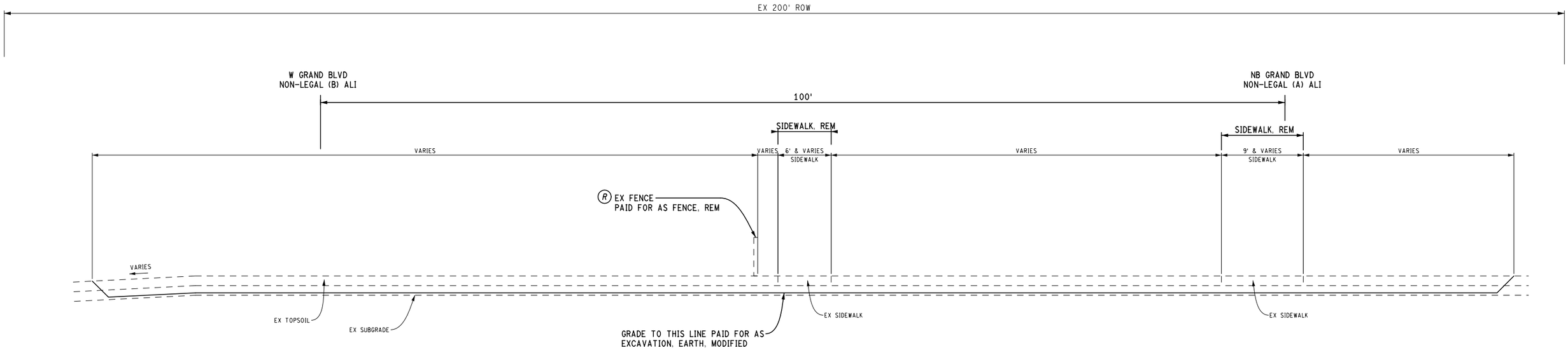
The following items of work shall be done as they apply throughout the project. These items are not detailed or included on the plan and profile sheets.

MISCELLANEOUS ITEMS FOR CONSTRUCTION

1	LS	Audio-Visual Filming
1	LS	Monitoring Vibrations
1	LS	Mobilization, Max
100	Cyd	Subgrade Undercutting, Type II
100	Cyd	Non Haz Contaminated Material Handling and Disposal, LM
300	Ft	Exploratory Investigation, Vertical
167	Syd	Sidewalk, Rem
19	Cyd	Excavation, Earth, Modified
1500	Sft	Sidewalk, Conc, 4 inch, Modified
300	Ft	Curb, Conc, Detail CD, Modified
167	Syd	Aggregate Base, 4 inch
200	Syd	Slope Restoration, Type A
100	Ft	Conduit, Encased, 2, 3 inch, Modified
100	Ft	Cable, Sec, Triplex, 1, 3/C#4
200	Ft	Cable, Equipment Grounding Wire, 1/C#6, Modified
200	Ft	Cable, Sec, 600V, 3, 1/C#6, Modified
2	Ea	Hh, Polymer Conc, Modified
15000	Dlr	Critical Path Method Schedule
54000	Dlr	Railroad Inspection and Flagging
25000	Dlr	Railroad Protection, at Grade Crossing

MAINTENANCE OF TRAFFIC QUANTITIES

1	LS	Minor Traf Devices
1	Ea	Mobile Attenuator
1	LS	Traf Regulator Control
40	Ea	Barricade, Type III, High Intensity, Lighted, Furn
40	Ea	Barricade, Type III, High Intensity, Lighted, Oper
20	Ea	Pedestrian Type II Barricade, Temp
40	Ft	Pedestrian Type II Channelizer, Temp
100	Ea	Channelizing Device, 42 inch, Furn
100	Ea	Channelizing Device, 42 inch, Oper
1	Ea	Lighted Arrow, Type C, Furn
1	Ea	Lighted Arrow, Type C, Oper
3000	Ft	Pavt Mrkg, Wet Reflective, Type NR, Paint, 4 inch, White, Temp
1600	Ft	Pavt Mrkg, Wet Reflective, Type NR, Paint, 4 inch, Yellow, Temp
2000	Ft	Pavt Mrkg, Wet Reflective, Type R, Tape, 4 inch, White, Temp
2000	Ft	Pavt Mrkg, Wet Reflective, Type R, Tape, 4 inch, Yellow, Temp
100	Ea	Plastic Drum, High Intensity, Furn
100	Ea	Plastic Drum, High Intensity, Oper
6	Ea	Sign Cover
2	Ea	Sign, Portable Changeable Message, NTCIP-Compliant, Furn
2	Ea	Sign, Portable Changeable Message, NTCIP-Compliant, Oper
500	Sft	Sign, Type B, Temp, Prismatic, Furn
500	Sft	Sign, Type B, Temp, Prismatic, Oper
202	Sft	Sign, Type B, Temp, Prismatic, Special, Furn
202	Sft	Sign, Type B, Temp, Prismatic, Special, Oper
200	Ft	Fence, Protective

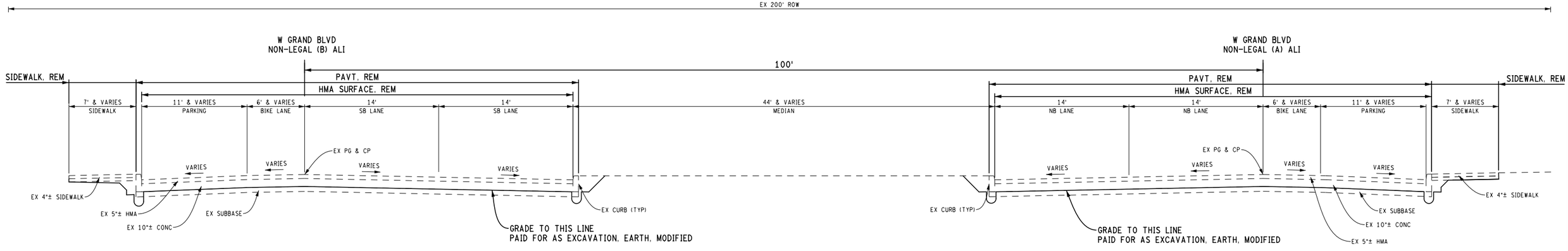


EXISTING NORMAL SECTION

SECTION APPLIES TO:
SB GRAND BLVD STA 10+00.00 TO 15+19.62

EXISTING NORMAL SECTION

SECTION APPLIES TO:
NB GRAND BLVD STA 10+00.00 TO 14+91.61



EXISTING NORMAL SECTION

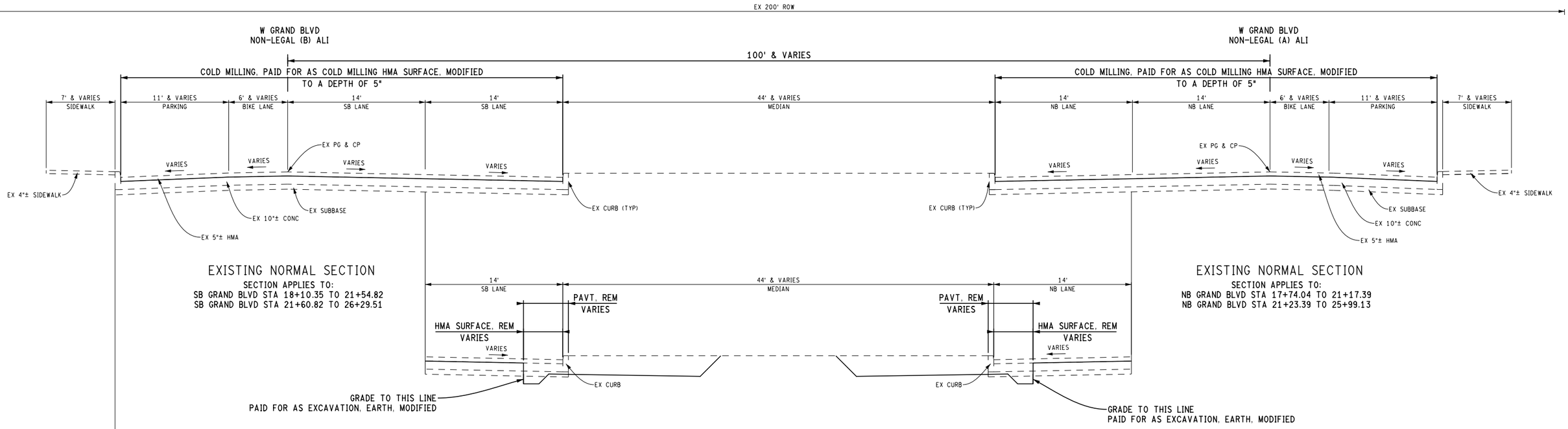
SECTION APPLIES TO:
SB GRAND BLVD STA 15+19.62 TO 16+21.61
GAP STA 16+21.61 TO 16+43.07 FOR RAILROAD CROSSING
SB GRAND BLVD STA 16+43.07 TO 18+10.35
SB GRAND BLVD STA 21+54.82 TO 21+60.82

EXISTING NORMAL SECTION

SECTION APPLIES TO:
NB GRAND BLVD STA 14+91.61 TO 15+76.55
GAP STA 15+76.55 TO 15+92.67 FOR RAILROAD CROSSING
NB GRAND BLVD STA 15+92.67 TO 17+74.04
NB GRAND BLVD STA 21+17.39 TO 21+23.39

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp | Detroit | 0 HORZ. (FT) 10 | DATE: 05/24/21 | FILE: | JN: PW-7031 RIVERSIDE PARK | EXISTING TYPICAL SECTIONS W GRAND BLVD | DRAWING: RIV TYP 001 | SHEET: 11



FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

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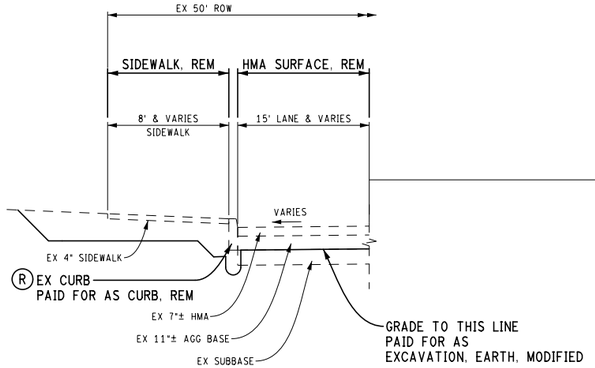
FILE:

DATE: 05/24/21

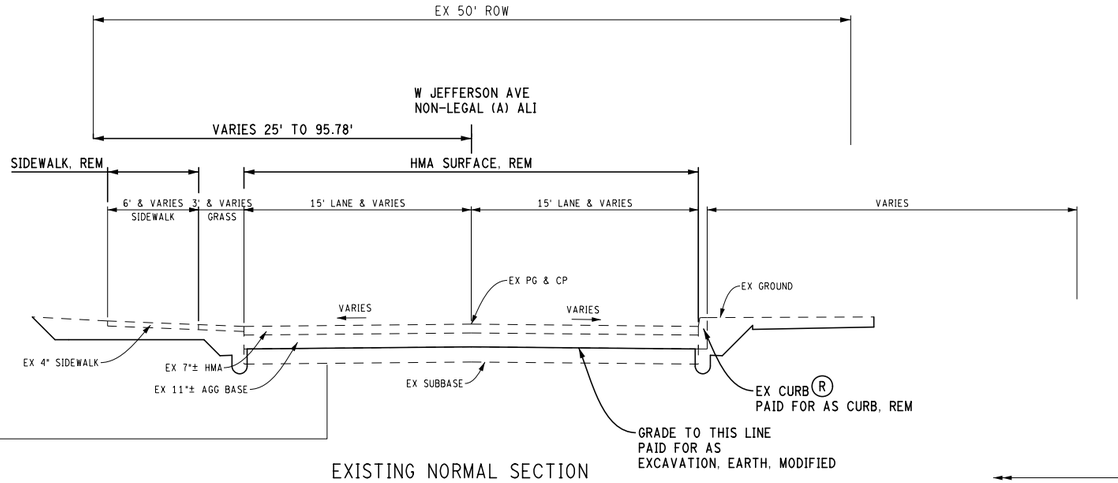
JN: PW-7031
RIVERSIDE PARK

EXISTING TYPICAL SECTIONS
W GRAND BLVD/W JEFFERSON AVE

DRAWING	SHEET
RIV TYP 002	12



SECTION APPLIES TO:
W JEFFERSON AVE STA 101+20.68 TO 101+83.59



EXISTING NORMAL SECTION

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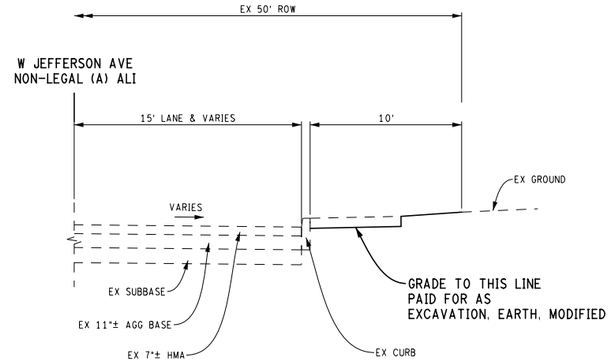
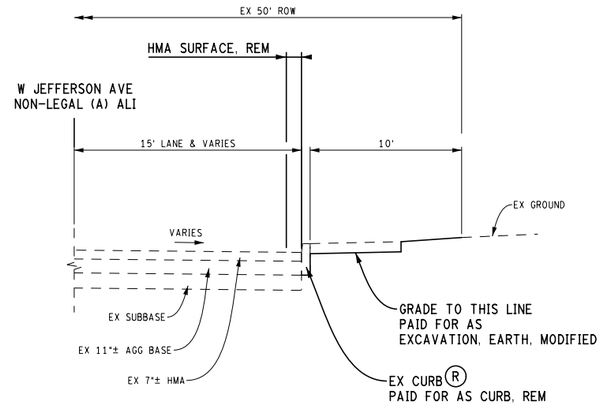


SECTION APPLIES TO:
W JEFFERSON AVE STA 98+54.91 TO 98+71.05
W JEFFERSON AVE STA 99+19.29 TO 100+31.15



SECTION APPLIES TO:
W JEFFERSON AVE STA 98+71.05 TO 99+19.29
W JEFFERSON AVE STA 100+31.15 TO 101+20.68

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

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Detroit

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FILE:

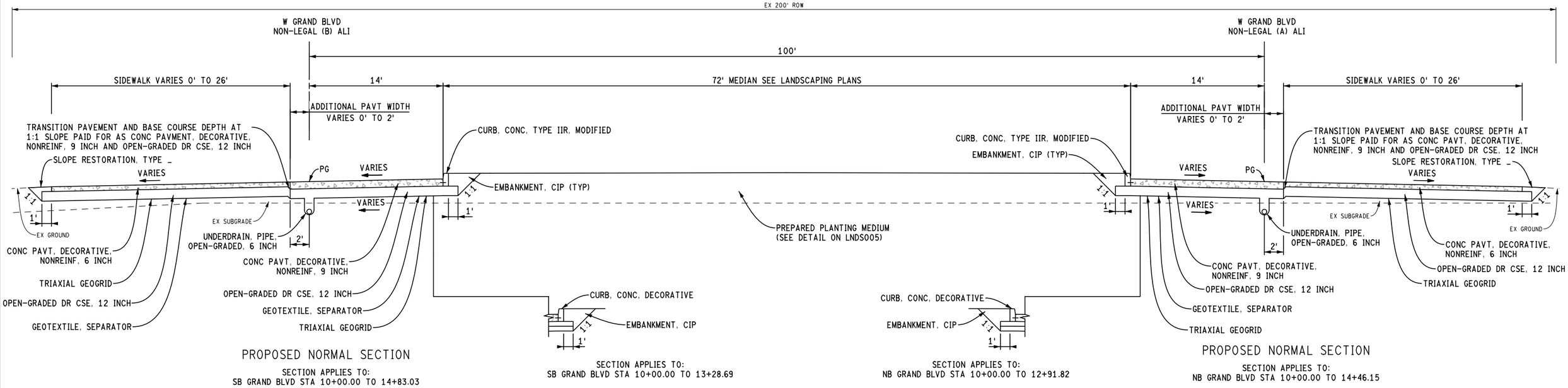
DATE: 05/24/21

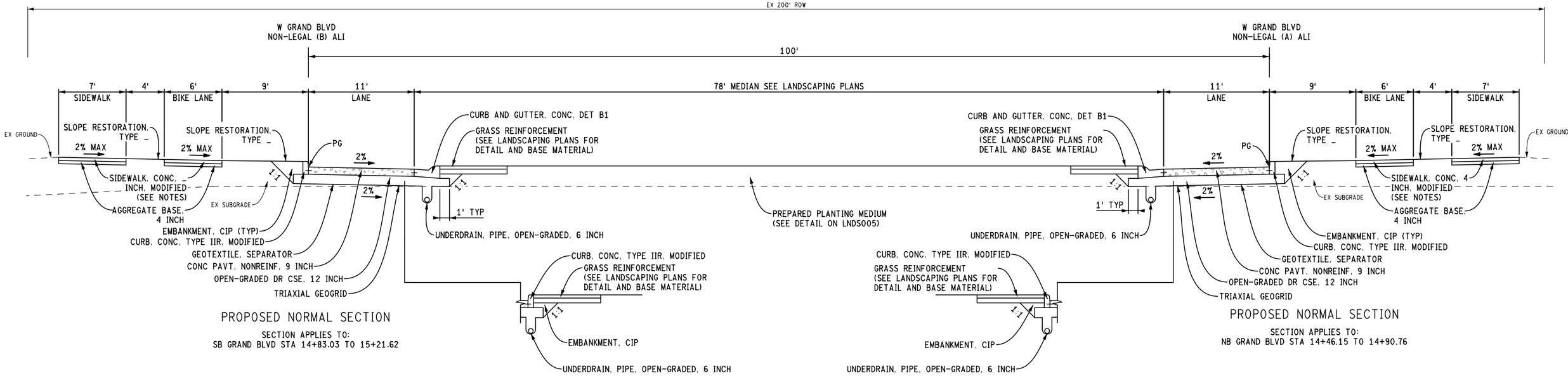
JN: PW-7031
RIVERSIDE PARK

EXISTING TYPICAL SECTIONS
W JEFFERSON AVE

DRAWING: RIV TYP 003

SHEET: 13





NOTES:

SEE LANDSCAPE PLANS FOR CURB REVEAL INFORMATION.

THICKNESS OF SIDEWALK, CONC, _ INCH, MODIFIED WILL BE 4 INCHES IN ALL LOCATIONS UNLESS OTHERWISE CALLED FOR BY CITY OF DETROIT STANDARD DETAIL 'SIDEWALK RAMP AND DETECTABLE WARNING DETAILS R-28-1 WITH CITY OF DETROIT THICKNESS AMENDMENT' OR MISCELLANEOUS DETAIL ON SHEET MSCDET003.

TRIAXIAL GEOGRID TO BE PLACED OVER GEOTEXTILE SEPARATOR.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

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Detroit

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FILE:

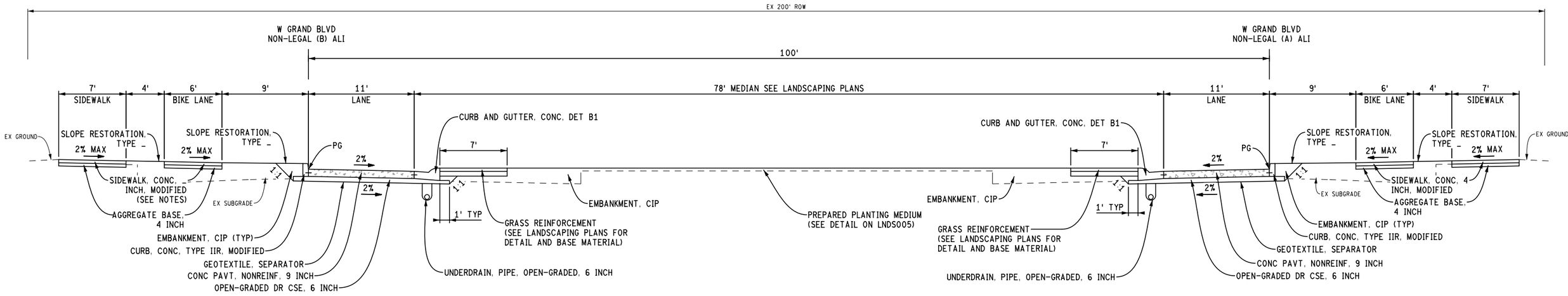
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

PROPOSED TYPICAL SECTIONS
W GRAND BLVD

DRAWING: RIV TYP 004

SHEET: 14

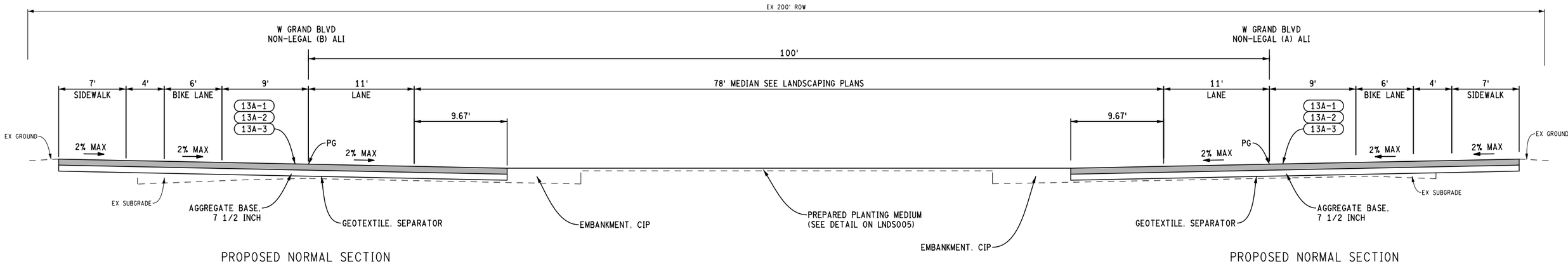


PROPOSED NORMAL SECTION

SECTION APPLIES TO:
SB GRAND BLVD STA 15+21.62 TO 15+87.61
SB GRAND BLVD STA 16+30.40 TO 17+35.91

PROPOSED NORMAL SECTION

SECTION APPLIES TO:
NB GRAND BLVD STA 14+90.76 TO 15+63.21
NB GRAND BLVD STA 16+06.00 TO 16+99.03



PROPOSED NORMAL SECTION

SECTION APPLIES TO:
SB GRAND BLVD STA 15+87.61 TO 15+98.50
GAP STA 15+98.50 TO 16+20.15 FOR RAILROAD CROSSING
SB GRAND BLVD STA 16+20.15 TO 16+30.40

PROPOSED NORMAL SECTION

SECTION APPLIES TO:
NB GRAND BLVD STA 15+63.21 TO 15+73.47
GAP STA 15+73.47 TO 15+95.12 FOR RAILROAD CROSSING
NB GRAND BLVD STA 15+95.12 TO 16+06.00

HMA APPLICATION ESTIMATE

IDENT NO.	ITEM	RATE LBS PER SYD	PERFORMANCE GRADE	REMARKS
5E3	HMA, 5E3	165	64-22	TOP COURSE (AWI = 260)
4E3	HMA, 4E3	220	64-22	LEVELING COURSE
13A-1	HMA, 13A	275	58-28	TOP COURSE (AWI = 220)
13A-2	HMA, 13A	275	58-28	LEVELING COURSE
13A-3	HMA, 13A	275	58-28	BASE COURSE
HA-5E3	HMA APPROACH, MODIFIED	165	64-22	HMA APPROACH: TOP COURSE
HA-4E3	HMA APPROACH, MODIFIED	220	64-22	HMA APPROACH: LEVELING COURSE
	* BOND COAT	0.05-0.15 GAL		

*FOR INFORMATION ONLY

NOTES:

THICKNESS OF SIDEWALK, CONC, _ INCH, MODIFIED WILL BE 4 INCHES IN ALL LOCATIONS UNLESS OTHERWISE CALLED FOR BY CITY OF DETROIT STANDARD DETAIL 'SIDEWALK RAMP AND DETECTABLE WARNING DETAILS R-28-1 WITH CITY OF DETROIT THICKNESS AMENDMENT' OR MISCELLANEOUS DETAIL ON SHEET MSCDET003.

CONTRACTOR MUST NOT PLACE THE HMA PAVEMENT COURSES BETWEEN SB GRAND BLVD STA 15+87.61 TO STA 16+30.40 AND NB GRAND BLVD STA 15+63.21 TO STA 16+06.00 UNTIL THE PROPOSED SB AND NB W GRAND BLVD GRADE CROSSING SURFACES ARE INSTALLED BY CSX AND THE GRADE CROSSING SURFACE ELEVATION IS VERIFIED OR AS DIRECTED BY THE ENGINEER.

1 CURB HEIGHT AT EDGE OF OBSTRUCTION FREE ZONE TO BE ZERO INCHES AND TO TRANSITION TO PROPOSED HEIGHT OVER 5 FT OR AS DIRECTED BY THE ENGINEER.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION
1	06/04/21		NOTE UPDATES				

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FILE:

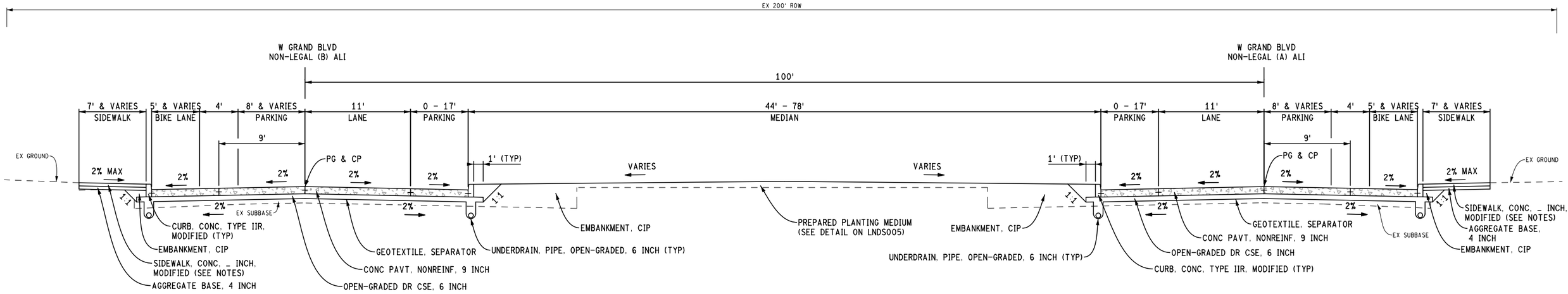
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

PROPOSED TYPICAL SECTIONS
W GRAND BLVD

DRAWING: RIV TYP 005

SHEET: 15

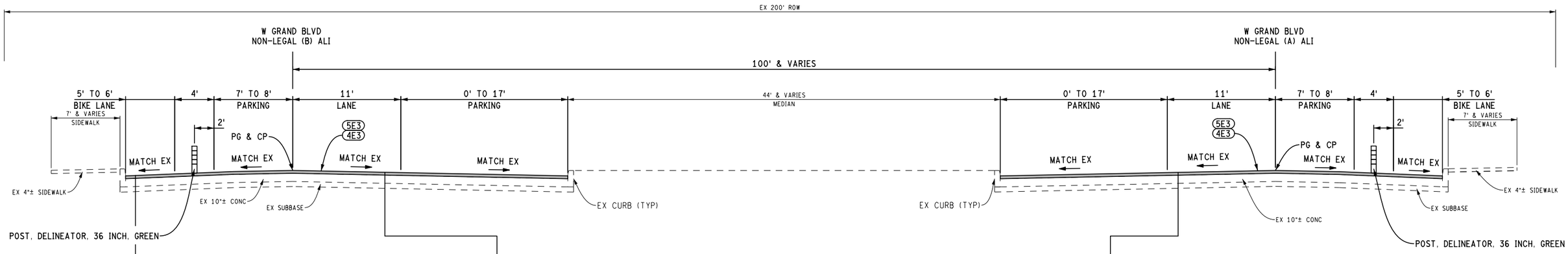


PROPOSED NORMAL SECTION

SECTION APPLIES TO:
SB GRAND BLVD STA 17+35.91 TO 18+10.35

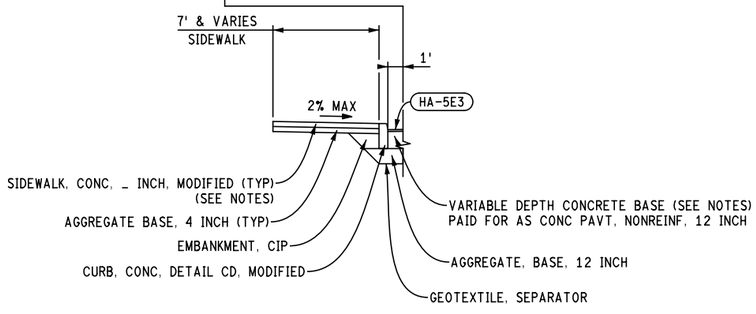
PROPOSED NORMAL SECTION

SECTION APPLIES TO:
NB GRAND BLVD STA 16+99.03 TO 17+74.04

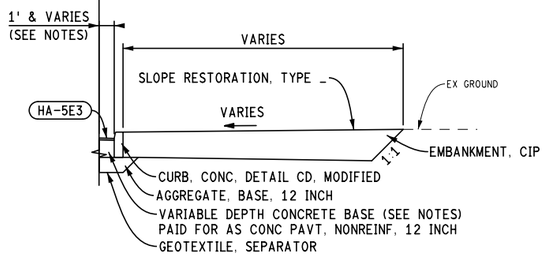


PROPOSED NORMAL SECTION

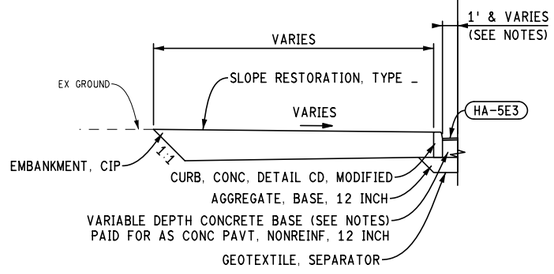
SECTION APPLIES TO:
SB GRAND BLVD STA 18+10.35 TO 21+54.82
SB GRAND BLVD STA 21+60.82 TO 26+29.51



SECTION APPLIES TO:
SB GRAND BLVD STA 18+10.35 TO 21+43.33



SECTION APPLIES TO:
SB GRAND BLVD STA 18+10.35 TO 18+82.00
SB GRAND BLVD STA 21+50.17 TO 21+54.82
SB GRAND BLVD STA 21+60.82 TO 23+05.09
SB GRAND BLVD STA 24+65.69 TO 25+47.17



SECTION APPLIES TO:
NB GRAND BLVD STA 17+74.04 TO 17+84.15
NB GRAND BLVD STA 21+12.80 TO 21+17.39
NB GRAND BLVD STA 21+23.39 TO 22+68.13
NB GRAND BLVD STA 24+92.54 TO 25+24.80

PROPOSED NORMAL SECTION

SECTION APPLIES TO:
NB GRAND BLVD STA 17+74.04 TO 21+17.39
NB GRAND BLVD STA 21+23.39 TO 22+68.13

NOTES:

THE VARIABLE DEPTH CONCRETE BASE COURSE SHALL MATCH THE THICKNESS OF THE ADJACENT PAVEMENT STRUCTURE (EXISTING PAVEMENT AND PROPOSED LEVELING COURSE) AND COME UP FLUSH TO THE TOP OF THE ADJACENT LEVELING COURSE. THE CONCRETE BASE COURSE WILL BE OVERLAID WITH THE SAME PROPOSED HMA TOP COURSE AS THE REST OF THE ROADWAY.

VARIABLE WIDTH OF PROPOSED CONCRETE BASE AND TOP COURSE OVERLAY WILL ACCOUNT FOR THE ENTIRETY OF THE TAPER AREA INTO AND OUT OF PARKING LANE.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

Detroit

0 HORZ. (FT) 10

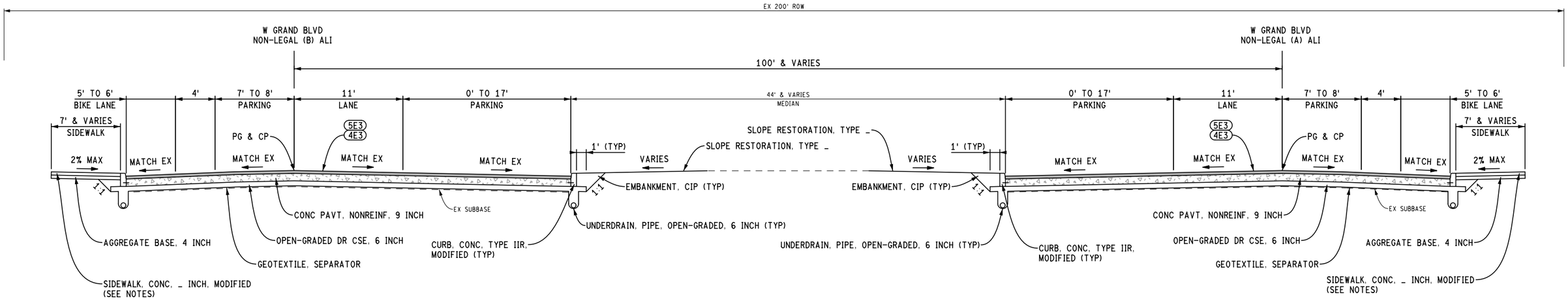
FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

PROPOSED TYPICAL SECTIONS
W GRAND BLVD

DRAWING	SHEET
RIV TYP 006	16

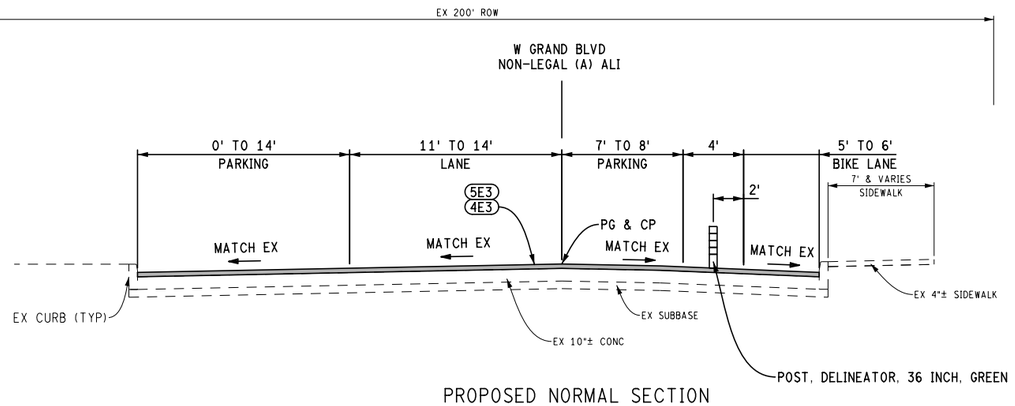


PROPOSED NORMAL SECTION

SECTION APPLIES TO:
SB GRAND BLVD STA 21+54.82 TO 21+60.82

PROPOSED NORMAL SECTION

SECTION APPLIES TO:
NB GRAND BLVD STA 21+17.39 to 21+23.39



PROPOSED NORMAL SECTION

SECTION APPLIES TO:
NB GRAND BLVD STA 22+68.13 TO 25+99.13

NOTE:

THICKNESS OF SIDEWALK, CONC, _ INCH, MODIFIED WILL BE 4 INCHES IN ALL LOCATIONS UNLESS OTHERWISE CALLED FOR BY CITY OF DETROIT STANDARD DETAIL 'SIDEWALK RAMP AND DETECTABLE WARNING DETAILS R-28-1 WITH CITY OF DETROIT THICKNESS AMENDMENT' OR MISCELLANEOUS DETAIL ON SHEET MSCDET003.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

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Detroit

0 HORZ. (FT) 10

FILE:

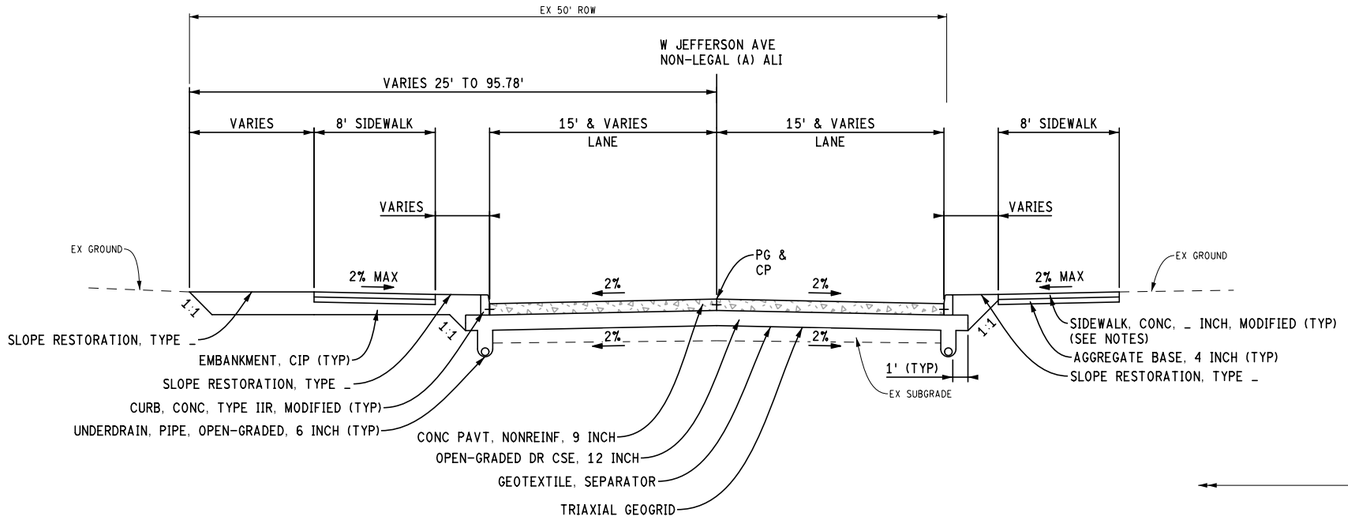
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

PROPOSED TYPICAL SECTIONS
W GRAND BLVD

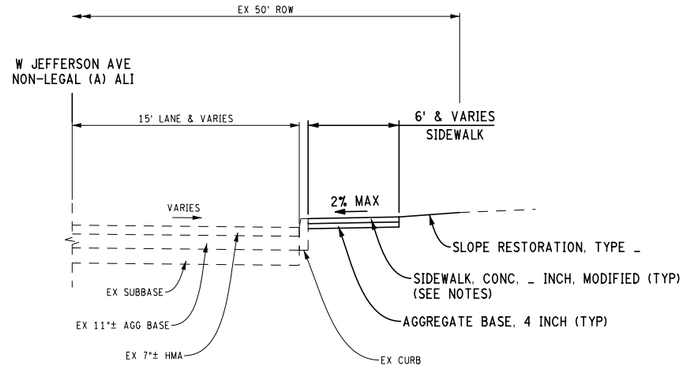
DRAWING: RIV TYP 007

SHEET: 17

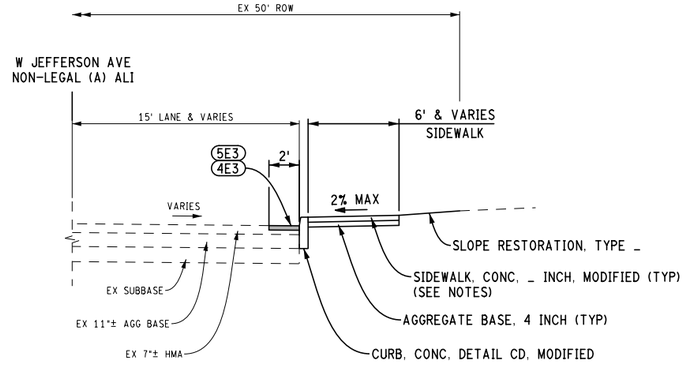


PROPOSED NORMAL SECTION

SECTION APPLIES TO:
W JEFFERSON AVE STA 101+20.68 TO 103+52.94



SECTION APPLIES TO:
W JEFFERSON AVE STA 98+54.91 TO 98+71.05
W JEFFERSON AVE STA 99+19.29 TO 100+31.15



SECTION APPLIES TO:
W JEFFERSON AVE STA 98+71.05 TO 99+19.29
W JEFFERSON AVE STA 100+31.15 TO 101+20.68

NOTES:

THICKNESS OF SIDEWALK, CONC, _ INCH, MODIFIED WILL BE 4 INCHES IN ALL LOCATIONS UNLESS CALLED FOR OTHERWISE BY CITY OF DETROIT STANDARD DETAIL 'SIDEWALK RAMP AND DETECTABLE WARNING DETAILS R-28-1 WITH CITY OF DETROIT THICKNESS AMENDMENT' OR MISCELLANEOUS DETAIL ON SHEET MSCDET003.

TRIAXIAL GEOGRID TO BE PLACED OVER GEOTEXTILE SEPARATOR.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

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Detroit

0 HORZ. (FT) 10

FILE:

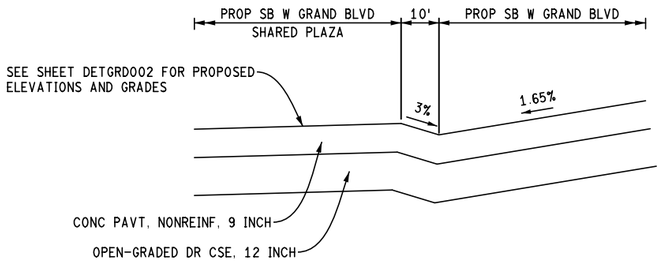
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

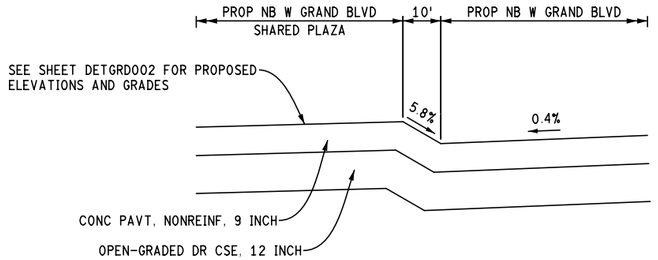
PROPOSED TYPICAL SECTIONS
W JEFFERSON AVE

DRAWING: RIV TYP 008

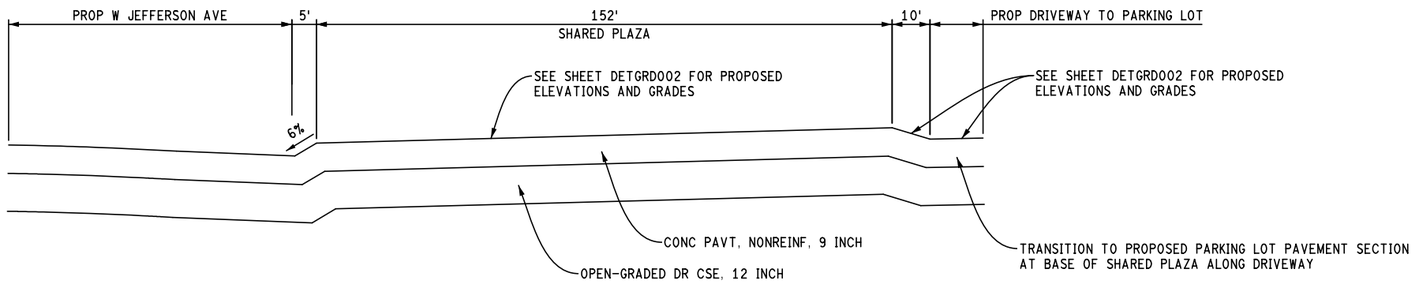
SHEET: 18



PROPOSED SHARED PLAZA ELEVATION VIEW
ALONG SB W GRAND BLVD



PROPOSED SHARED PLAZA ELEVATION VIEW
ALONG NB W GRAND BLVD



PROPOSED SHARED PLAZA ELEVATION VIEW
ALONG W JEFFERSON AVE

NOTES:

SHARED PLAZA LIMITS EXTEND FROM NB W GRAND BLVD STA 10+00.00 TO STA 14+56.15, SB W GRAND BLVD STA 10+00.00 TO STA 14+93.03 AND FROM JEFFERSON STA 103+52.94 TO 152' EAST OF JEFFERSON STA 103+52.94.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

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Detroit

0 VERT. (FT) 4
0 HORZ. (FT) 40

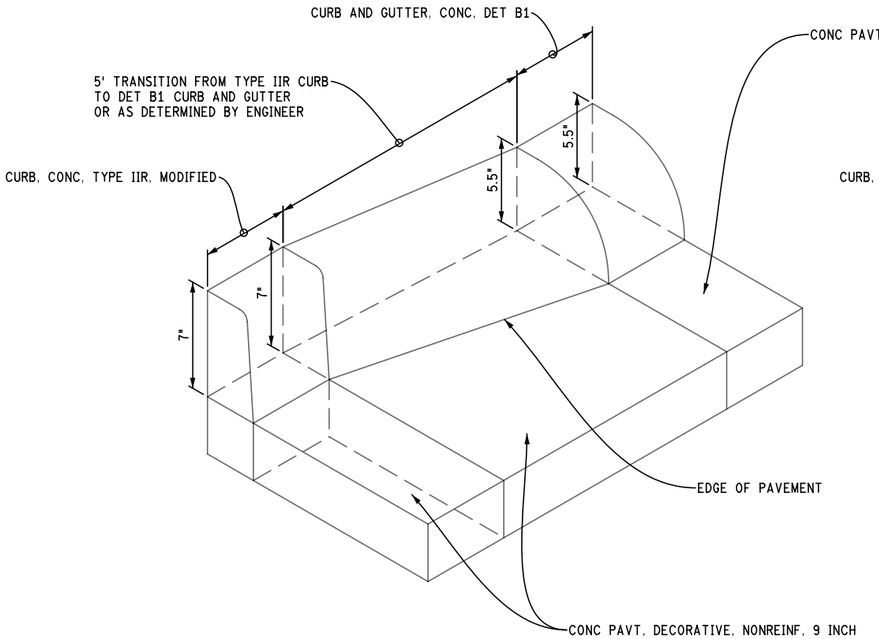
FILE:

DATE: 05/24/21

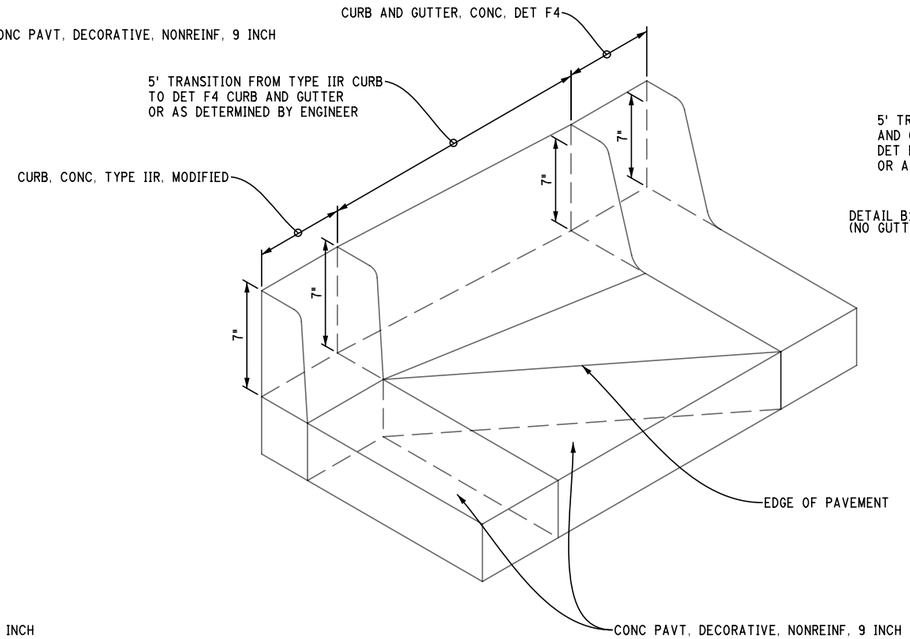
JN: PW-7031
RIVERSIDE PARK

MISCELLANEOUS DETAIL SHEET
RIVERSIDE PARK

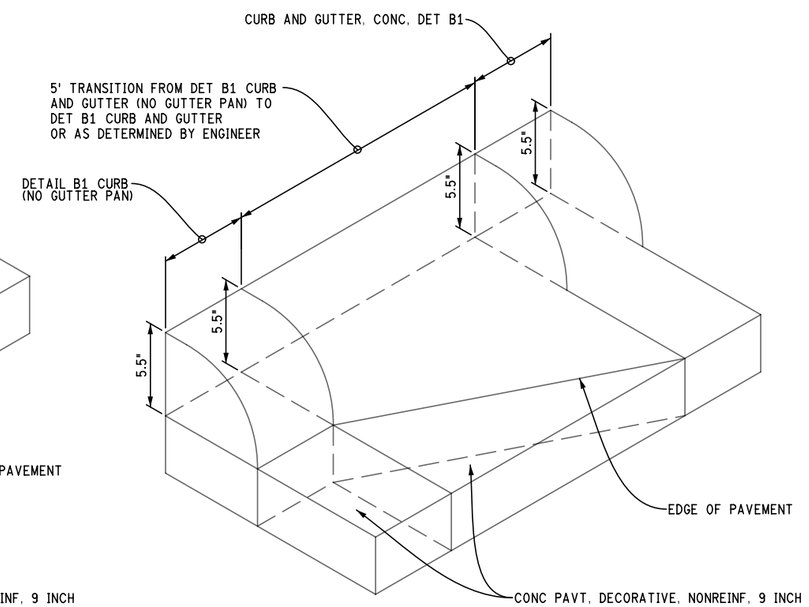
DRAWING: RIV MSCDET 001



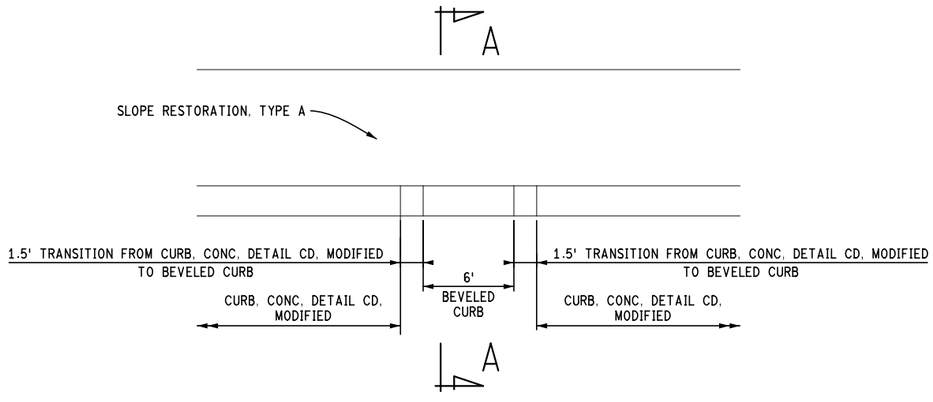
TRANSITION BETWEEN TYPE IIR MODIFIED CURB AND
DETAIL B1 CURB AND GUTTER



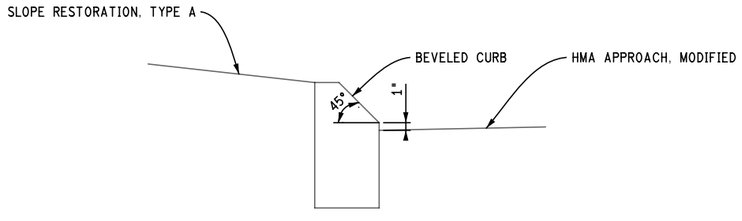
TRANSITION BETWEEN TYPE IIR MODIFIED CURB AND
DETAIL F4 CURB AND GUTTER



TRANSITION BETWEEN DETAIL B1 CURB WITH NO
GUTTER PAN TO DETAIL B1 CURB AND GUTTER



MOWER RAMP



SECTION A–A

NOTES:

TRANSITION BETWEEN TYPE IIR MODIFIED CURB AND TYPE B1 CURB AND GUTTER SHALL BE PAID FOR AS CURB, CONC, TYPE IIR, MODIFIED.

TRANSITION BETWEEN TYPE IIR MODIFIED CURB AND TYPE F4 CURB AND GUTTER SHALL BE PAID FOR AS CURB, CONC, TYPE IIR, MODIFIED.

TRANSITION BETWEEN DETAIL B1 CURB WITH NO GUTTER PAN TO DETAIL B1 CURB AND GUTTER SHALL BE PAID FOR AS CURB AND GUTTER, CONC, DET B1.

TRANSITION FROM CURB, CONC, DETAIL CD, MODIFIED TO BEVELED CURB AND BEVELED CURB SHALL BE PAID FOR AS CURB, CONC, DETAIL CD, MODIFIED.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

Detroit

NO SCALE

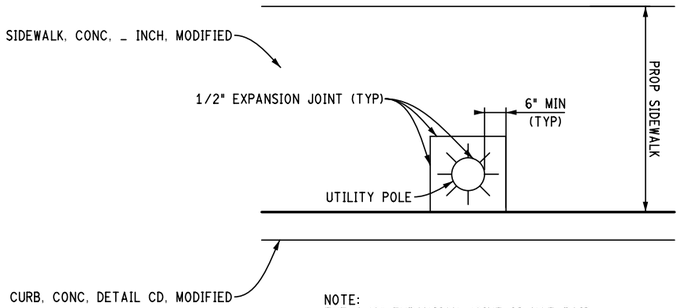
DATE: 05/24/21

FILE:

JN: PW-7031
RIVERSIDE PARK

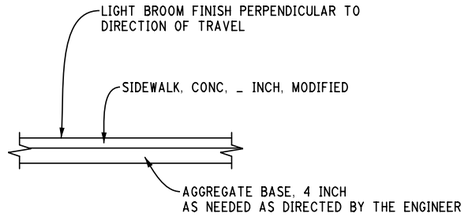
MISCELLANEOUS DETAIL SHEET
RIVERSIDE PARK

DRAWING	SHEET
RIV MSCDET 002	20

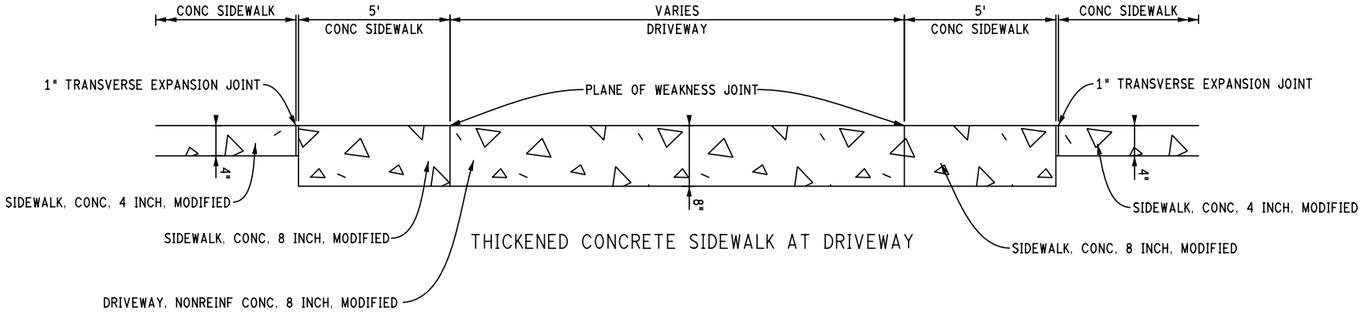


NOTE:
THE 1/2" EXPANSION JOINT IS NOT PAID FOR SEPARATELY AND IS INCLUDED IN THE PAY ITEMS FOR SIDEWALK WORK.

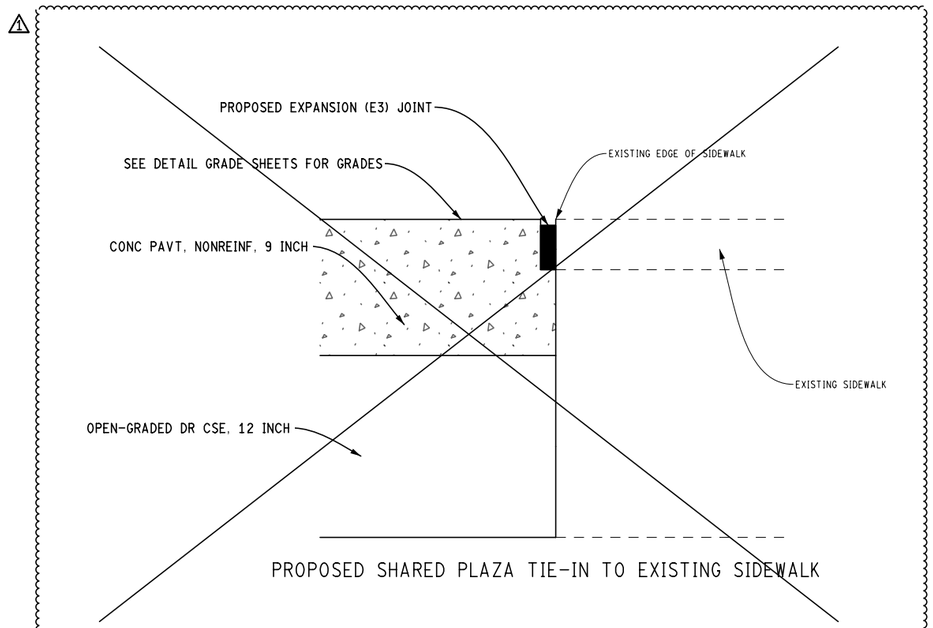
CONC JOINTING FOR UTILITY POLES IN SIDEWALK



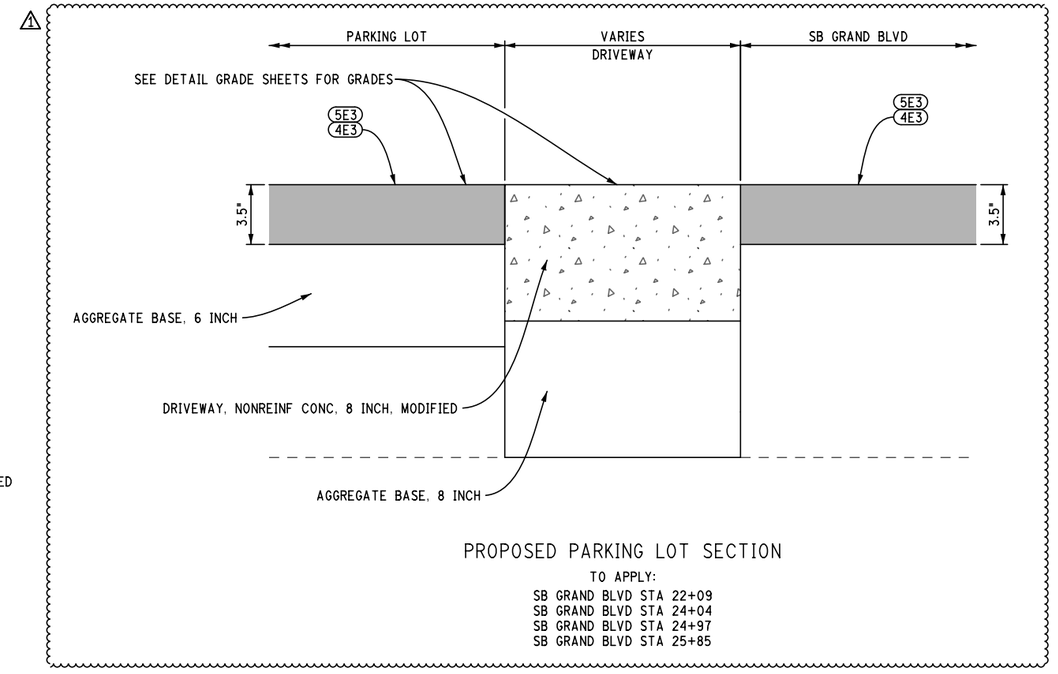
SIDEWALK, _ INCH, MODIFIED



THICKENED CONCRETE SIDEWALK AT DRIVEWAY



PROPOSED SHARED PLAZA TIE-IN TO EXISTING SIDEWALK



PROPOSED PARKING LOT SECTION

TO APPLY:
SB GRAND BLVD STA 22+09
SB GRAND BLVD STA 24+04
SB GRAND BLVD STA 24+97
SB GRAND BLVD STA 25+85

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION
1	06/04/21		MISCELLANEOUS DETAIL UPDATES				

wsp

Detroit

NO SCALE

DATE: 05/24/21

FILE:

JN: PW-7031
RIVERSIDE PARK

MISCELLANEOUS DETAIL SHEET
RIVERSIDE PARK

DRAWING: RIV MSCDET 003

SHEET: 21

NOTES

COORDINATE SYSTEM:	STATE PLANE GRID
ZONE:	MICHIGAN SOUTH 2113
ELLIPSOID:	GRS 80
HORIZONTAL DATUM:	NAD 83 (2011)
VERTICAL DATUM:	NAVD 88
GEOID:	GEOID 12B
UNITS:	INTERNATIONAL FEET

SURVEY CONTROL

CONTROL PT#: 100
DESCRIPTION: SET MAG NAIL AT INTERSECTION OF W. JEFFERSON AND S. SWAIN ST. IN NORTHEAST QUADRANT.

COORDINATES: N= 298099.216 E= 13470581.84 EL= 580.67
SDN=0.01 SDE=0.01 SDZ= 0.01

CONTROL PT#: 101
DESCRIPTION: SET IRON WITH WT CAP AT INTERSECTION OF W. JEFFERSON AND VINEWOOD ST. IN NORTHWEST QUADRANT.

COORDINATES: N=298446.118 E=13470780.85 EL= 580.04
SDN=0.01 SDE=0.01 SDZ= 0.01

CONTROL PT#: 102
DESCRIPTION: SET IRON WITH WT CAPON SOUTH SIDE OF W. JEFFERSON, W. SIDE OF GRAND BLVD. LOCATED 5 FEET+/- SW OF R.R. SIGNAL.

COORDINATES: N=298678.241 E= 13470914.74 EL= 580.88
SDN= 0.01 SDE= 0.01 SDZ= 0.01

CONTROL PT#: 103
DESCRIPTION: SET IRON WITH WT CAP SOUTH OF EAST/WEST DRIVE TO IN PARK, 50 FEET +/- EAST OF SOUTHEASTERLY R.R.SIGNAL.

COORDINATES: N= 298821.085 E= 13471137.55 EL= 582.79
SDN= 0.01 SDE= 0.01 SDZ= 0.01

CONTROL PT#: 104
DESCRIPTION: SET IRON WITH WT CAP IN SE QUADRANT OF JEFFERSON AVE AND GRAND BLVD.

COORDINATES: N= 298942.190 E= 13471010.57 EL= 581.50
SDN= 0.01 SDE= 0.01 SDZ= 0.01

CONTROL PT#: 105
DESCRIPTION: SET IRON WITH WT CAP ON SOUTH SIDE OF JEFFERSON AVE., NORTH OF DOG PARK.

COORDINATES: N= 299180.087 E= 13471088.36 EL= 582.30
SDN= 0.01 SDE= 0.01 SDZ= 0.01

CONTROL PT#: 106
DESCRIPTION: SET IRON WITH WT CAP AT FENCE LINE TO PARK, 150 FEET+/- SOUTH OF JEFFERSON AVE.

COORDINATES: N= 298484.743 E= 13471011.02 EL= 579.44
SDN=0.01 SDE=0.01 SDZ= 0.01

CONTROL PT#: 107
DESCRIPTION: SET IRON WITH WT CAP 5 FEET +/- NORTH OF WALK ALONG RIVER IN SOUTHEASTERLY PART OF PARK

COORDINATES: N= 298231.647 E= 13471177.16 EL= 580.51
SDN=0.01 SDE=0.01 SDZ= 0.01

CONTROL PT#: 108
DESCRIPTION: SET IRON WITH WT CAP 20 FEET+/- NORTH OF RIVER IN SOUTHEASTERLY PART OF PARK.

COORDINATES: N= 298491.193 E= 13471374.09 EL= 581.47
SDN=0.01 SDE=0.01 SDZ= 0.01

CONTROL PT#: 109
DESCRIPTION: SET IRON WITH WT CAP ON WEST SIDE OF SB GRAND BLVD. 50 FEET+/- NORTH OF R.R. TRACKS.

COORDINATES: N= 298854.671 E= 13470819.26 EL= 582.55
SDN=0.01 SDE=0.01 SDZ= 0.01

CONTROL PT#: 110
DESCRIPTION: SET IRON WITH WT CAP ON EAST SIDE OF SB GRAND BLVD. 200 FEET+/- NORTH OF R.R. TRACKS.

COORDINATES: N= 299133.531 E= 13470722.94 EL= 588.30
SDN=0.01 SDE=0.01 SDZ= 0.01

CONTROL PT#: 111
DESCRIPTION: SET IRON WITH WT CAP IN MEDIAN OF GRAND BLVD AT TURN AROUND.

COORDINATES: N= 299316.349 E= 13470642.78 EL= 591.01
SDN=0.01 SDE=0.01 SDZ= 0.01

CONTROL PT#: 112
DESCRIPTION: SET MAG NAIL IN WALK ON WEST SIDE OF SB GRAND BLVD. 100 FEET+/- SOUTH OF M-85 (FORT ST).

COORDINATES: N= 299510.378 E= 13470451.83 EL= 591.91
SDN=0.01 SDE=0.01 SDZ= 0.01

CONTROL PT#: 113
DESCRIPTION: SET IRON ROD AND CAP ON NORTWEST SIDE OF JEFFERSON AVE 190 FEET +/- SOUTHWEST OF CENTERLINE OF 24TH STREET

COORDINATES: N= 299461.19 E= 13471198.50 EL= 585.88
SDN=0.01 SDE=0.01 SDZ= 0.01

CONTROL PT#: 114
DESCRIPTION: SET IRON ROD AND CAP ON SOUTHERLY QUADRANT OF JEFFERSON AVE AND 24TH STREET 27 FEET +/- SOUTHEAST OF CENTERLINE OF JEFFERSON AND 28 FEET +/- SOUTHWEST OF 24TH STREET

COORDINATES: N= 299541.33 E= 13471331.16 EL= 587.15
SDN=0.01 SDE=0.01 SDZ= 0.01

BENCHMARK#: BM 200
DESCRIPTION: PAINTED BLUE BOLT ON HYDRANT LOCATED IN NORTHEAST QUADRANT OF W. JEFFERSON AND S. SWAIN ST.
ELEV – 581.82
SDN: 0.005

BENCHMARK#: BM 201
DESCRIPTION: PAINTED BLUE BOLT ON HYDRANT LOCATED ON NORTH SIDE OF W. JEFFERSON, 75 FEET+/- WEST OF GRAND BLVD.
ELEV – 583.76
SDN: 0.005

BENCHMARK#: BM 202
DESCRIPTION: PAINTED “SQUARE” ON NORTH SIDE OF WALK ALONG RIVER ON SOUTH SIDE OF PARK. LOCATED NEAR CP 107.
ELEV – 580.65
SDZ: 0.005

BENCHMARK#: BM 203
DESCRIPTION: PAINTED BLUE BOLT ON HYDRANT LOCATED ON NORTH SIDE OF W. JEFFERSON AVE, 300 FEET+/- EAST OF GRAND BLVD.
ELEV – 584.20
SDZ: 0.005

BENCHMARK#: BM 204
DESCRIPTION: BENCH TIE LOCATED IN POWER POLE ON WEST SIDE OF SB GRAND BLVD. NEAR HOTEL LOCATED 150 FEET+/- SOUTH OF M-85 (FORT ST.)
ELEV – 592.49
SDZ: 0.005

BENCHMARK #: BM 205
DESCRIPTION: PAINTED BLUE BOLT ON HYDRANT LOCATED IN SOUTHWEST QUADRANT OF W. JEFFERSON AVE AND 24TH STREET.
ELEV – 587.68
SDN: 0.005

REVISIONS							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

WADETRIM www.wadetrim.com Flint, Michigan

City of Detroit

NO SCALE

DATE: 05/24/21
DESIGN UNIT:
TSC:

JN: PW-7031
RIVERSIDE PARK

SURVEY INFORMATION SHEET
RIVERSIDE PARK

DRAWING: RIV SURVEY 001
SHEET: 22

DETROIT RIVER | W JEFFERSON AVE | CSX RR | M-85

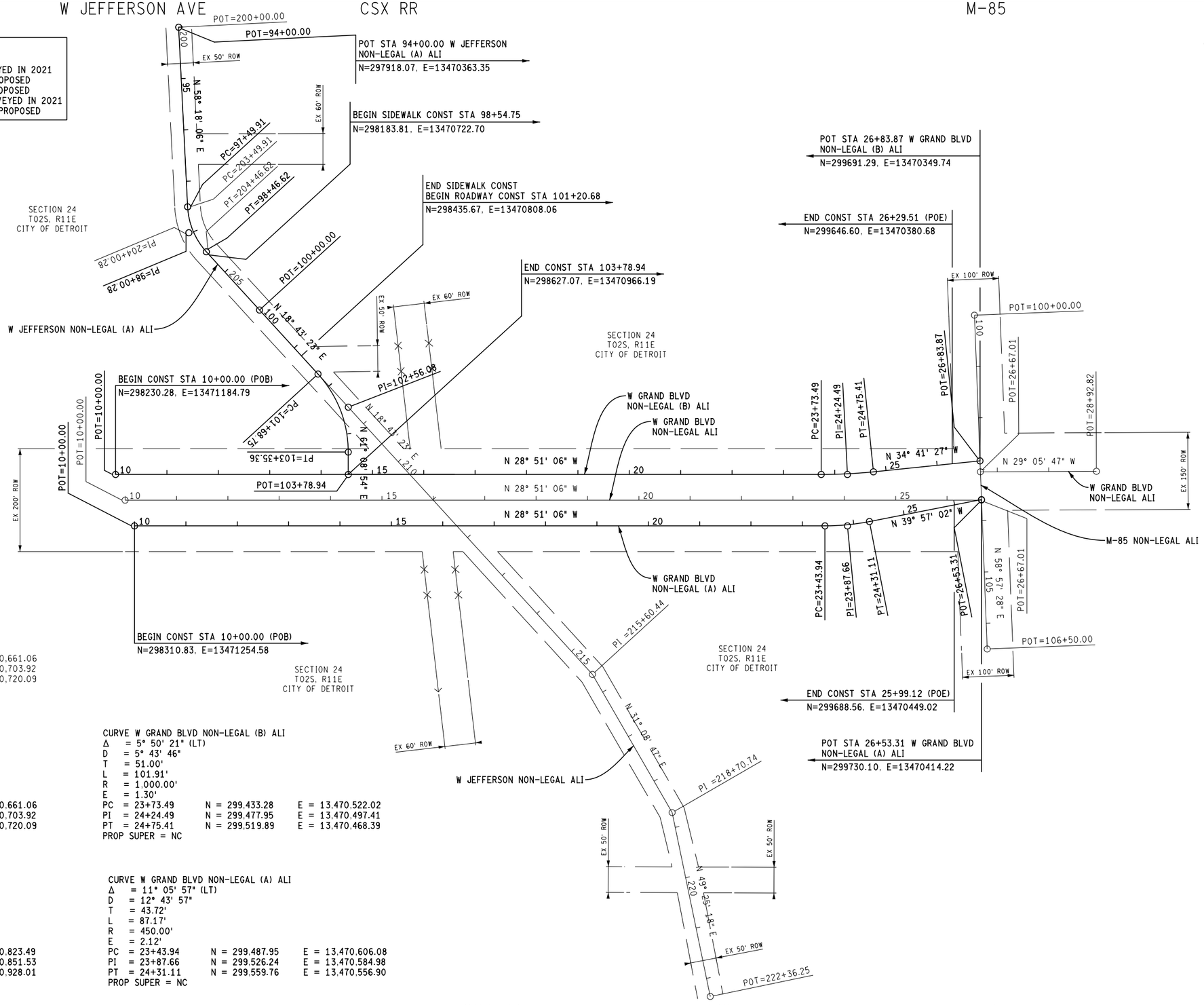
W GRAND BLVD

SWAIN ST

24TH ST

ALIGNMENT KEY:

W GRAND BLVD NON-LEGAL ALI: W GRAND BLVD AS SURVEYED IN 2021
W GRAND BLVD NON-LEGAL (A) ALI: W GRAND BLVD AS PROPOSED
W GRAND BLVD NON-LEGAL (B) ALI: W GRAND BLVD AS PROPOSED
W JEFFERSON NON-LEGAL ALI: W JEFFERSON AVE AS SURVEYED IN 2021
W JEFFERSON NON-LEGAL (A) ALI: W JEFFERSON AVE AS PROPOSED



CURVE W JEFFERSON NON-LEGAL ALI
Δ = 39° 34' 42" (LT)
D = 40° 55' 32"
T = 50.37'
L = 96.71'
R = 140.00'
E = 8.79'
PC = 203+49.91 N = 298,101.93 E = 13,470,661.06
PI = 204+00.28 N = 298,128.40 E = 13,470,703.92
PT = 204+46.62 N = 298,176.11 E = 13,470,720.09

CURVE 1 W JEFFERSON NON-LEGAL (A) ALI
Δ = 39° 34' 42" (LT)
D = 40° 55' 32"
T = 50.37'
L = 96.71'
R = 140.00'
E = 8.79'
PC = 97+49.91 N = 298,101.93 E = 13,470,661.06
PI = 98+00.28 N = 298,128.40 E = 13,470,703.92
PT = 98+46.62 N = 298,176.11 E = 13,470,720.09
PROP SUPER = NC

CURVE W GRAND BLVD NON-LEGAL (B) ALI
Δ = 5° 50' 21" (LT)
D = 5° 43' 46"
T = 51.00'
L = 101.91'
R = 1,000.00'
E = 1.30'
PC = 23+73.49 N = 299,433.28 E = 13,470,522.02
PI = 24+24.49 N = 299,477.95 E = 13,470,497.41
PT = 24+75.41 N = 299,519.89 E = 13,470,468.39
PROP SUPER = NC

CURVE 2 W JEFFERSON NON-LEGAL (A) ALI
Δ = 42° 25' 31" (RT)
D = 25° 27' 53"
T = 87.33'
L = 166.60'
R = 225.00'
E = 16.35'
PC = 101+68.75 N = 298,481.19 E = 13,470,823.49
PI = 102+56.08 N = 298,563.90 E = 13,470,851.53
PT = 103+35.36 N = 298,606.04 E = 13,470,928.01
PROP SUPER = NC

CURVE W GRAND BLVD NON-LEGAL (A) ALI
Δ = 11° 05' 57" (LT)
D = 12° 43' 57"
T = 43.72'
L = 87.17'
R = 450.00'
E = 2.12'
PC = 23+43.94 N = 299,487.95 E = 13,470,606.08
PI = 23+87.66 N = 299,526.24 E = 13,470,584.98
PT = 24+31.11 N = 299,559.76 E = 13,470,556.90
PROP SUPER = NC

DETROIT RIVER | CSX RR | W JEFFERSON AVE | M-85

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp | City of Detroit | 0 HORZ. (FT) 200 | FILE: | DATE: 05/24/21 | JN: PW-7031 RIVERSIDE PARK | ALIGNMENT SHEET RIVERSIDE PARK | DRAWING RIV ALI 001 | SHEET 23

DETROIT RIVER

W JEFFERSON AVE

W GRAND BLVD

W GRAND BLVD

BEGIN CONSTRUCTION
STA 10+00.00 (POB)

SECTION 24
T02S, R11E
CITY OF DETROIT

EX 36" OUTFALL (GLWA)

EX STORM MAIN (DWSD)

W GRAND BLVD
NON-LEGAL (B) ALI

W JEFFERSON AVE
NON-LEGAL (A) ALI

N 28° 51' 06" W

N 61° 08' 54" E

POT=10+00.00

POT=103+78.94

PT=103+35.36

+30.05 36.48' LT

+41.57 06.62' LT

+87.00 06.63' LT

+39.04 47.35' RT

+02.44 46.65' LT

+30.25 35.01' LT

+49.92 35.02' LT

+64.23 34.77' LT

+83.58 34.61' LT

+14.60 47.10' LT

+64.68 37.37' LT

+55.18 17.41' RT

+59.28 17.09' RT

+67.18 24.26' RT

+71.17 28.22' RT

45.4'

19.7'

19.3'

11.7'

11.9'

4.1'

5.6'

BH#06

BH#07

BH#08

BH#09

REM-B/0

REL-2

REL-B/0

R

A

B

HAZARDOUS OR FLAMMABLE MATERIAL

CAUTION - CRITICAL UTILITY

EX 50' ROW

EX 200' ROW

6.6' EX CONC SIDEWALK

5.4' EX CONC SIDEWALK

5.3' EX CONC SIDEWALK

6' EX CONC SIDEWALK

EX 8" WM (DWSD)

EX 15"-6" SANITARY (DWSD)

EX STORM MAIN (DWSD)

EX UG ELECTRIC (PLD)

ELEC OH (DTE)

ELEC OH (LIGHTING)

EX HMA OVER CONC

HO-3

SEWER ABANDONMENT TO BE COMPLETED BY OTHERS

SEE NOTES

SECTION 24
T02S, R11E
CITY OF DETROIT

NOTES:

TRACK REMOVAL AND RAILROAD GATE REMOVAL TO BE PERFORMED BY CSX.

CONTRACTOR TO BULKHEAD EXISTING STORM MAIN (DWSD) WITHIN MANHOLE AND ABANDON IDENTIFIED EXISTING STORM MAIN (DWSD) WITHIN WEST GRAND BLVD IN PLACE BY USING FLOWABLE FILL. THE CONTRACTOR IS TO COORDINATE WITH GSD CONTRACTOR WHEN ACCESS TO MANHOLE IS REQUIRED. COST OF BULKHEAD INCLUDED IN RELATED ITEMS OF WORK.

DETROIT RIVER

REMOVAL QUANTITIES - THIS SHEET

4	Ea	Dr Structure, Rem
126	Ft	Curb and Gutter, Rem
256	Syd	Pavt, Rem
*3211	Cyd	Excavation, Earth, Modified
463	Syd	HMA Surface, Rem
1	Ea	Tree, Rem, 37 inch or Larger
2	Ea	Tree, Rem, 6 inch to 18 inch
156	Ft	Fence, Rem
5	Cyd	Flowable Fill, Non-Structural

*INCLUDES 937 CYD OF TOPSOIL STRIPPING.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

City of Detroit

0 HORZ. (FT) 40

FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

REMOVAL SHEET
RIVERSIDE PARK
NB W GRAND BLVD POB TO STA 15+00

DRAWING: RIV REM 001

SHEET: 24

DETROIT RIVER

W JEFFERSON AVE

W GRAND BLVD

EX 200' ROW

BEGIN CONSTRUCTION
STA 10+00.00 (POB)

SECTION 24
T02S, R11E
CITY OF DETROIT

EX 36" OUTFALL (GLWA)

POT=10+00.00

N 28° 51' 06" W

CONC PAVT, DECORATIVE, NONREINF, 6 INCH (TYP)

CURB, CONC, DECORATIVE

EX STORM MAIN (DWSD)

CONC PAVT, DECORATIVE, NONREINF, 9 INCH

W GRAND BLVD
NON-LEGAL (B) ALI

W GRAND BLVD
NON-LEGAL (A) ALI

HAZARDOUS OR FLAMMABLE MATERIAL

EX UG ELECTRIC (PLD)

CONC PAVT, DECORATIVE, NONREINF, 6 INCH

CURB, CONC, TYPE IIR, MODIFIED

HYDRANT, RELOCATE, CASE 2, MODIFIED
STA 103+03.39, 22.97' LT

CAUTION – CRITICAL UTILITY

EX 15"-6" SANITARY (DWSD)

EX 8" WM (DWSD)

SIDEWALK

CURB AND GUTTER, CONC, DET B1

CURB AND GUTTER, CONC, DET B1 (NO GUTTER PAN)

GRASS REINFORCEMENT

CONC PAVT, DECORATIVE, NONREINF, 6 INCH

CURB AND GUTTER, CONC, DET F4

TO BE INSTALLED BY OTHERS

CONC PAVT, DECORATIVE, NONREINF, 6 INCH (TYP)

PARKING LOT

NOTES:

ANY DAMAGES TO BUILDINGS SHALL BE REPAIRED BY CONTRACTOR AT NO EXPENSE TO THE CITY OF DETROIT PRIOR TO OPENING TO TRAFFIC.

ANY SLURRY ACCUMULATING ON BUILDINGS MUST BE REMOVED PRIOR TO OPENING TO TRAFFIC.

LOCATIONS OF OVERHEAD ELECTRICAL LINES THAT ARE TO BE RELOCATED BY OTHERS ARE TO BE DETERMINED. NEW LOCATIONS TO BE FIELD VERIFIED BY CONTRACTOR.

LIMITS OF SLOPE RESTORATION EXTEND FROM ROW TO ROW.

CONSTRUCTION QUANTITIES – THIS SHEET

113	Ft	Curb and Gutter, Conc, Det B1
797	Ft	Curb, Conc, Type IIR, Modfied
30	Ft	Curb and Gutter, Conc, Det F4
733	Ft	Curb, Conc, Decorative
1988	Sft	Sidewalk, Conc, 4 inch, Modified
221	Syd	Aggregate Base, 4 inch
34	Syd	Open-Graded Dr Cse, 6 inch
5319	Syd	Open-Graded Dr Cse, 12 inch
5988	Syd	Geotextile, Separator
2460	Cyd	Embankment, CIP
360	Syd	Conc Pavt, Nonreinf, 9 inch
1218	Syd	Conc Pavt, Decorative, Nonreinf, 6 inch
3139	Syd	Conc Pavt, Decorative, Nonreinf, 9 inch
3763	Syd	Slope Restoration, Type A
437	Syd	Slope Restoration, Type B
5	Ea	Dr Structure Cover, Adj, Case 2, Modified
1	Ea	Hydrant, Relocate, Case 2, Modified
5954	Syd	Triaxial Geogrid
8	Ea	Erosion Control, Inlet Protection, Fabric Drop
2740	Ft	Joint, Contraction, CP
104	Ft	Joint, Expansion, E2
1764	Ft	Underdrain, Pipe, Open-Graded, 6 inch
560	Ft	Underdrain Outlet, 6 inch

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

Detroit

0 HORZ. (FT) 40

FILE:

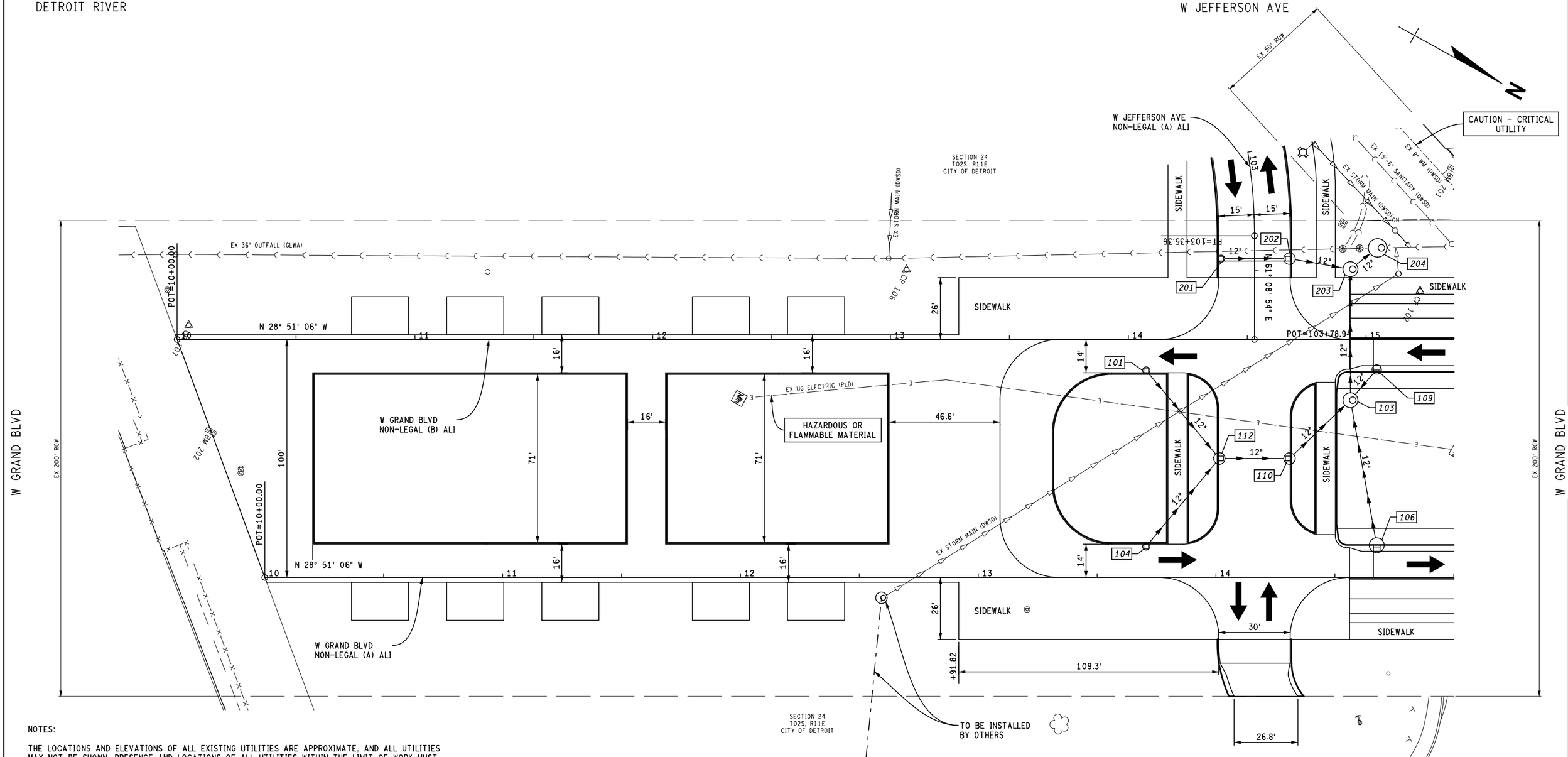
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

CONSTRUCTION SHEET
RIVERSIDE PARK
NB W GRAND BLVD POB TO STA 15+00

DRAWING: RIV CON 001

SHEET: 25



NOTES:

THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES ARE APPROXIMATE, AND ALL UTILITIES MAY NOT BE SHOWN. PRESENCE AND LOCATIONS OF ALL UTILITIES WITHIN THE LIMIT OF WORK MUST BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND CONTACTING THE CONTROLLING AUTHORITIES AND/OR UTILITY COMPANIES RELATIVE TO THE LOCATIONS AND ELEVATIONS OF THEIR LINES. THE CONTRACTOR SHALL KEEP A RECORD OF ANY DISCREPANCIES OR CHANGES IN THE LOCATIONS OF ANY UTILITIES SHOWN OR ENCOUNTERED DURING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER. ANY DAMAGE RESULTING FROM THE FAILURE OF THE CONTRACTOR TO MAKE THESE DETERMINATIONS AND CONTACTS SHALL BE BORNE BY THE CONTRACTOR.

THE CONTRACTOR SHALL EXERCISE CAUTION IN ALL EXCAVATION ACTIVITY DUE TO POSSIBLE EXISTENCE OF UNRECORDED UTILITY LINES.

ALL PROPOSED DRAINAGE STRUCTURES THAT DIRECTLY CONNECT TO THE MAIN TRUNK SEWER SHALL BE TRAPPED.

LOCATIONS OF OVERHEAD ELECTRICAL LINES THAT ARE TO BE RELOCATED BY OTHERS ARE TO BE DETERMINED. NEW LOCATIONS TO BE FIELD VERIFIED BY CONTRACTOR.

NOTES (CONT.):

DRAINAGE STRUCTURE SURVEY IS INCOMPLETE. ALL EXISTING SEWER CONNECTIVITY, INVERT ELEVATIONS, PIPE SIZES AND PIPE SLOPES ARE TO BE VERIFIED BY THE CONTRACTOR. PROPOSED INVERT ELEVATIONS, PIPE SIZES AND PIPE SLOPES NOT SHOWN ARE TO BE DESIGNED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

DETROIT RIVER

PARKING LOT

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

Detroit

0 HORZ. (FT) 40

FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

DRAINAGE SHEET
RIVERSIDE PARK
NB W GRAND BLVD POB TO STA 15+00

DRAWING	SHEET
RIV DRAIN 001	26

STRUCT NO.	STATION	OFFSET*	RIM** ELEV	Dr Structure, _ inch dia.	Dr Structure, _ inch dia.	Dr Structure, _ inch dia.	Dr Structure Cover, Type CB, Modified	Dr Structure Cover, Type MH, Modified	Sewer, Cl A, _ inch, Tr Det A	Sewer, Cl A, _ inch, Tr Det C	Sewer, Cl A, _ inch, Tr Det A	Sewer Tap, _ inch	Dr Structure Lead, Cleaning, Modified
				24	48	60			12	12	36	36	
				Ea	Ea	Ea	Ea	Ea	Ft	Ft	Ft	Ea	Ft
101	14+07.49 SB GRAND	13.00' RT	580.70	1			1			49			
103	14+93.38 SB GRAND	25.50' RT	582.04		1			1		55			
104	13+70.61 NB GRAND	13.00' LT	581.24	1			1			49			
201	103+44.94 JEFFERSON	14.00' RT	579.93	1			1			29			
106	14+67.57 NB GRAND	13.54' LT	581.33		1		1		62				
202	103+44.94 JEFFERSON	14.75' LT	579.93		1		1			26			
203	103+49.39 JEFFERSON	40.36' LT	580.81		1			1	15				
204	103+40.42 JEFFERSON	51.80' LT	580.93			1		1			10	1	10
109	15+04.45 SB GRAND	12.57' RT	580.57	1			1			17			
110	14+30.15 NB GRAND	50.00' LT	580.23		1		1			36			
112	14+01.40 NB GRAND	50.00' LT	580.23		1		1			30			
TOTAL				4	6	1	8	3	77	291	10	1	10

* OFFSETS ARE MEASURED TO CENTER OF STRUCTURE
** RIM ELEV SHOWN IS AT EDGE OF PAVEMENT FOR CATCH BASINS AND AT CENTER OF COVER FOR MANHOLES

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

Detroit

NO SCALE

DATE: 05/24/21

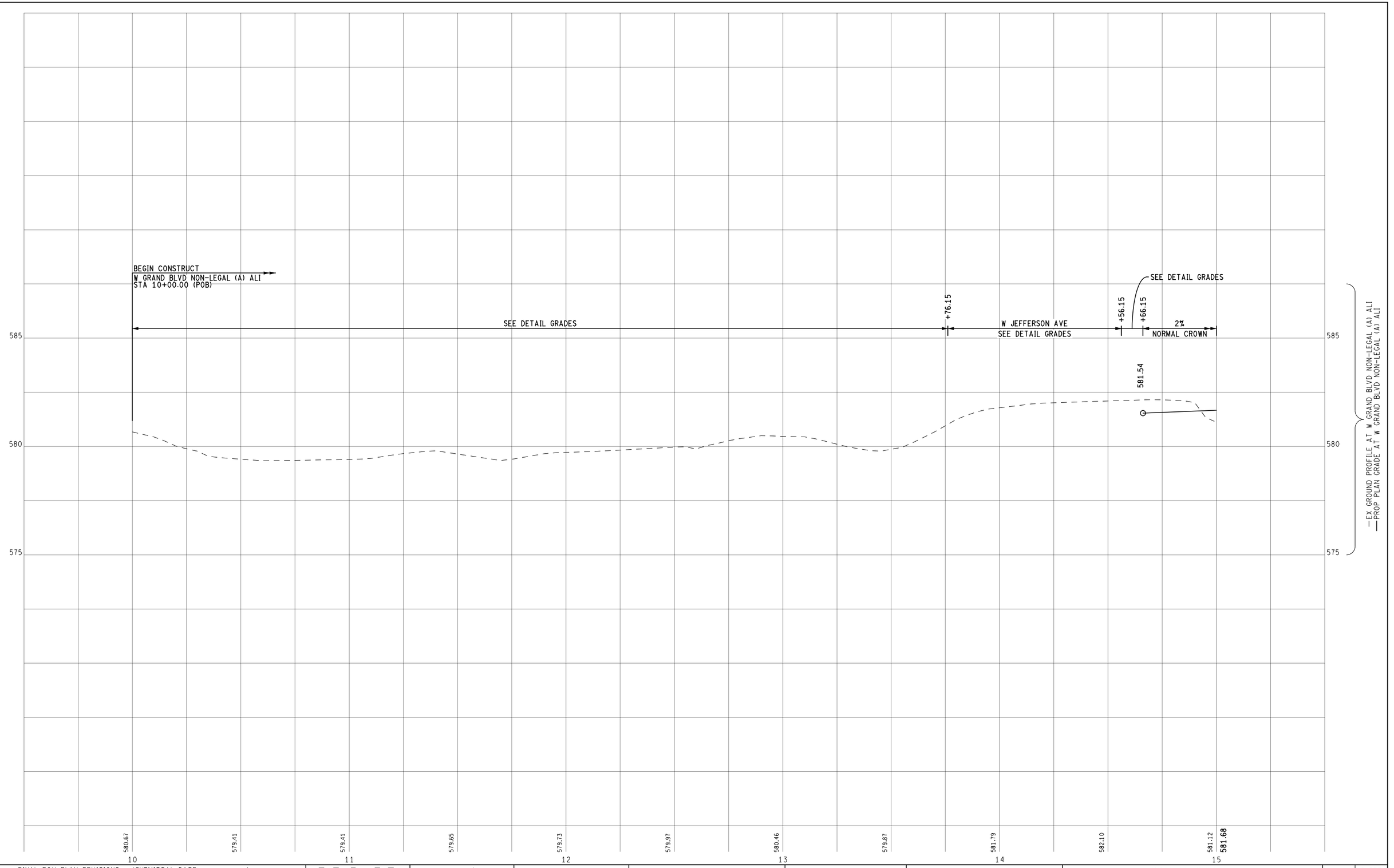
FILE:

JN: PW-7031
RIVERSIDE PARK

DRAINAGE QUANTITY SHEET
RIVERSIDE PARK
NB W GRAND BLVD POB TO STA 15+00

DRAWING: RIV DRNQTY 001

SHEET: 27



FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

City of Detroit

0 VERT. (FT) 4
0 HORZ. (FT) 40

FILE:

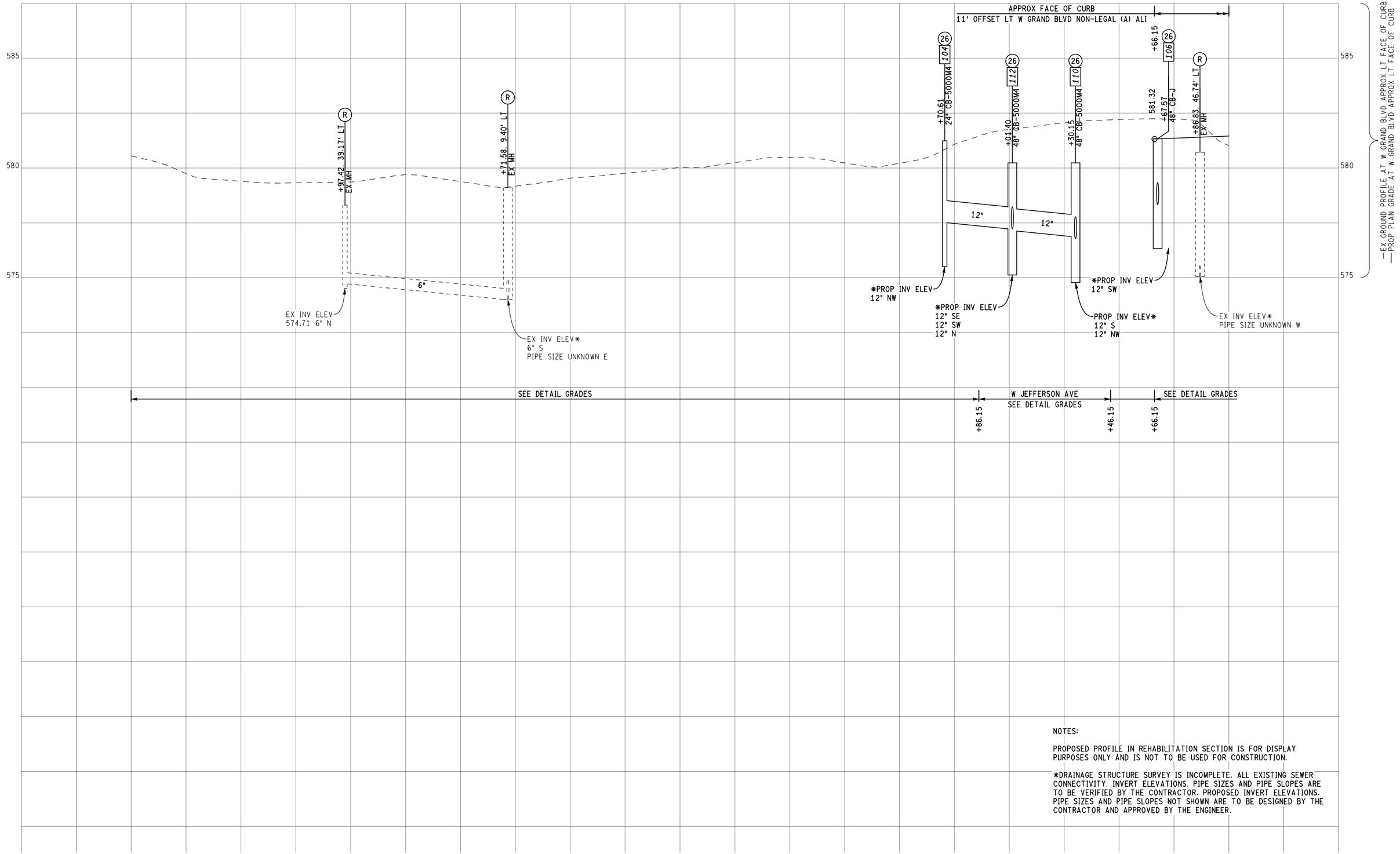
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

PROFILE SHEET
RIVERSIDE PARK
NB W GRAND BLVD POB TO 15+00

DRAWING: RIV PROF 001

SHEET: 28



NOTES:

PROPOSED PROFILE IN REHABILITATION SECTION IS FOR DISPLAY PURPOSES ONLY AND IS NOT TO BE USED FOR CONSTRUCTION.

*DRAINAGE STRUCTURE SURVEY IS INCOMPLETE. ALL EXISTING SEWER CONNECTIVITY, INVERT ELEVATIONS, PIPE SIZES AND PIPE SLOPES ARE TO BE VERIFIED BY THE CONTRACTOR. PROPOSED INVERT ELEVATIONS. PIPE SIZES AND PIPE SLOPES NOT SHOWN ARE TO BE DESIGNED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

10 11 12 13 14 15

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

City of Detroit

0 VERT. (FT) 4
0 HORZ. (FT) 40

FILE:

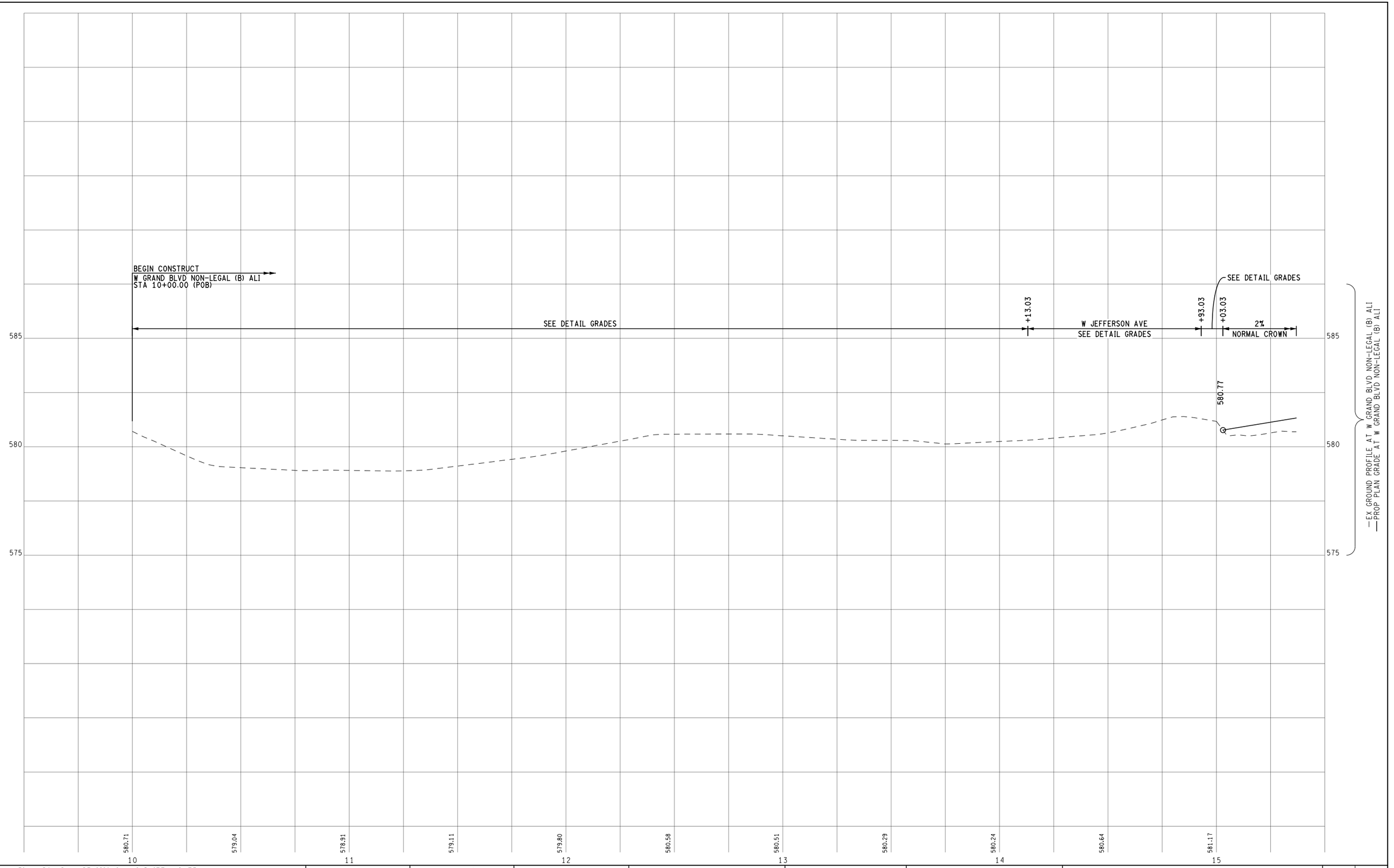
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

PROFILE SHEET
RIVERSIDE PARK
NB W GRAND BLVD POB TO 15+00

DRAWING: RIV PROF 002

SHEET: 29



FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

Detroit

VERT. (FT) 0 4
HORZ. (FT) 0 40

FILE:

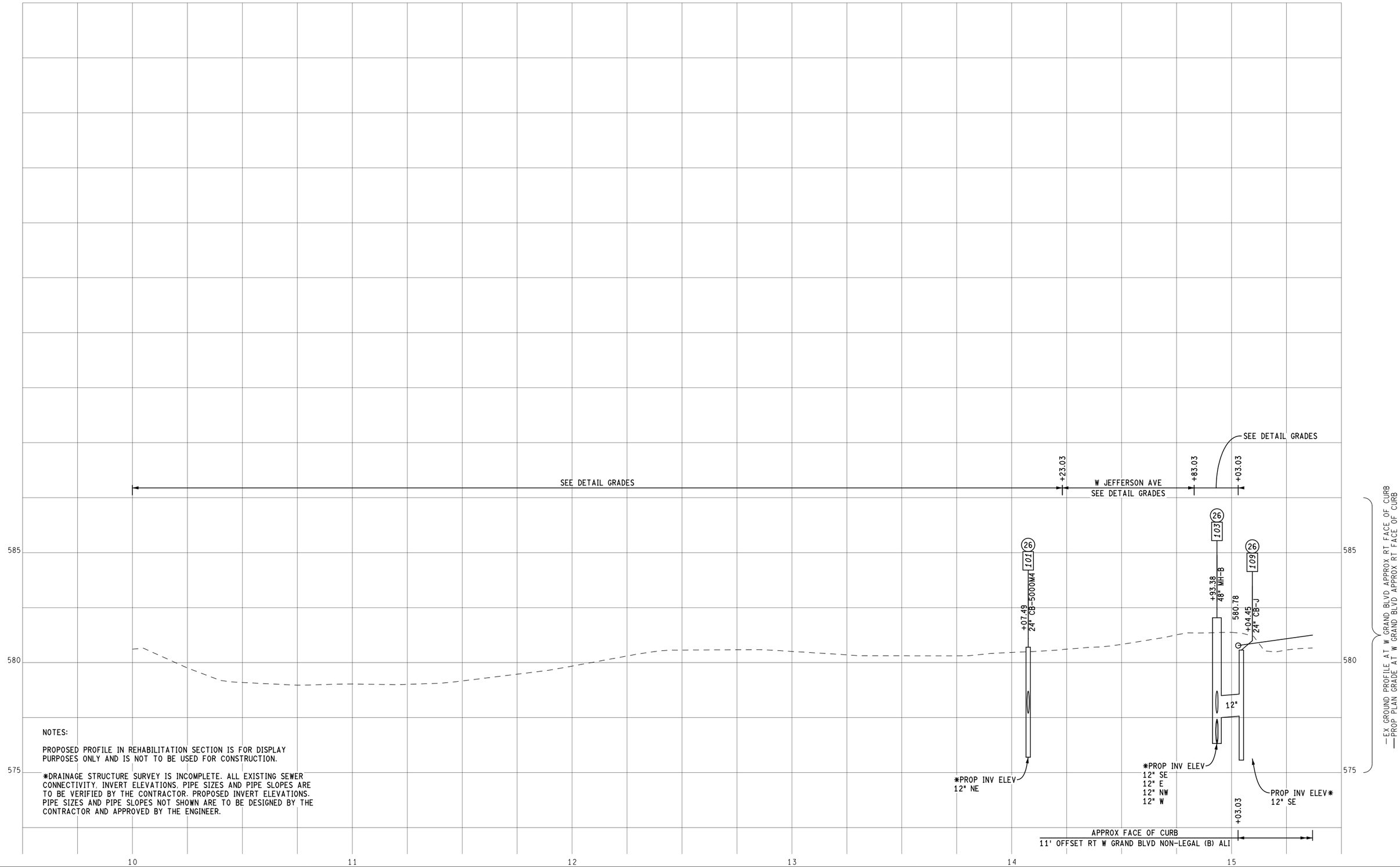
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

PROFILE SHEET
RIVERSIDE PARK
SB W GRAND BLVD POB TO 15+36.88

DRAWING: RIV PROF 003

SHEET: 30



NOTES:

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FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

Detroit

0 VERT. (FT) 4
0 HORZ. (FT) 40

FILE:

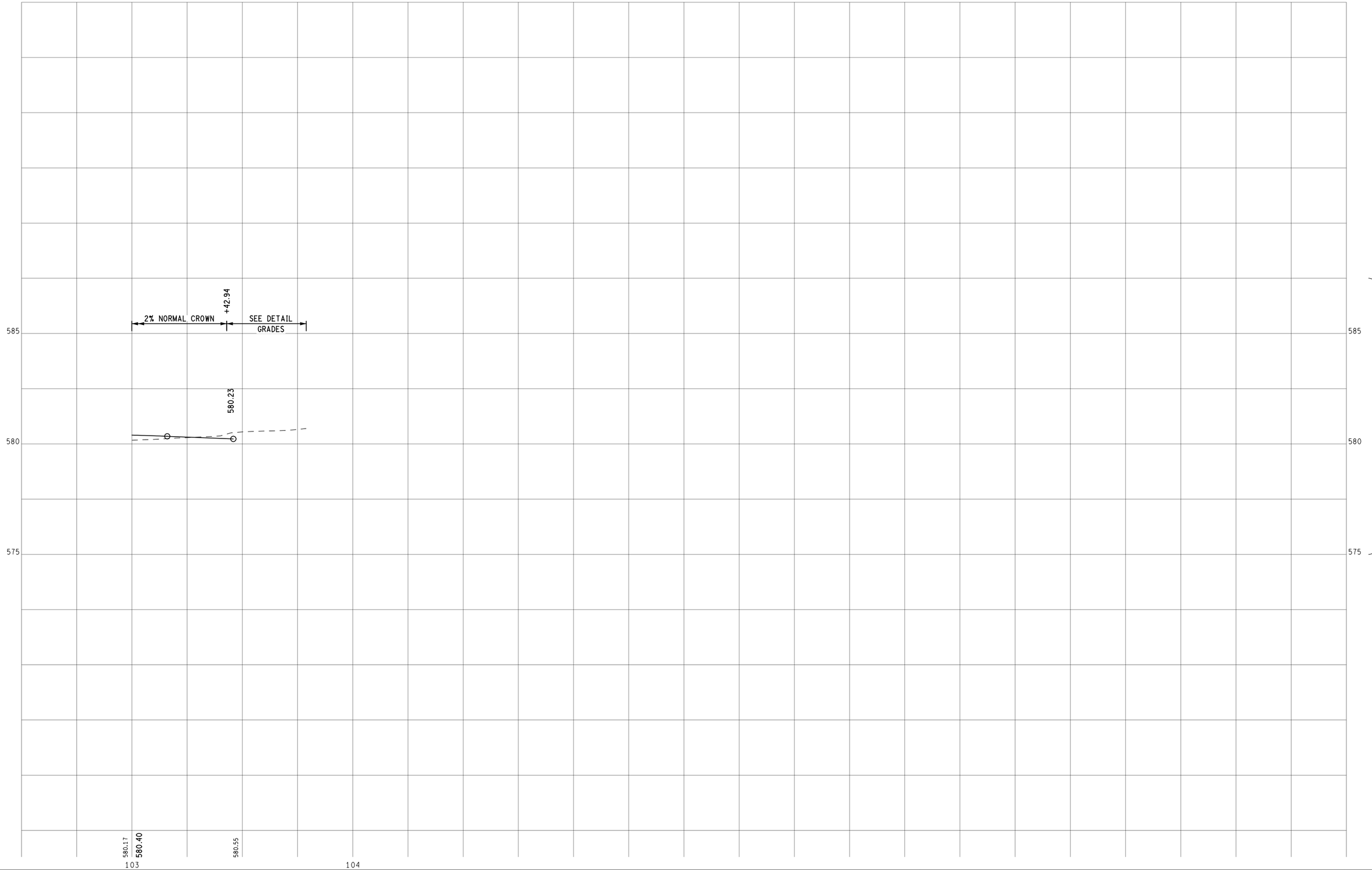
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

PROFILE SHEET
RIVERSIDE PARK
SB W GRAND BLVD POB TO 15+36.88

DRAWING: RIV PROF 004

SHEET: 31



FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

Detroit

0 VERT. (FT) 4
0 HORZ. (FT) 40

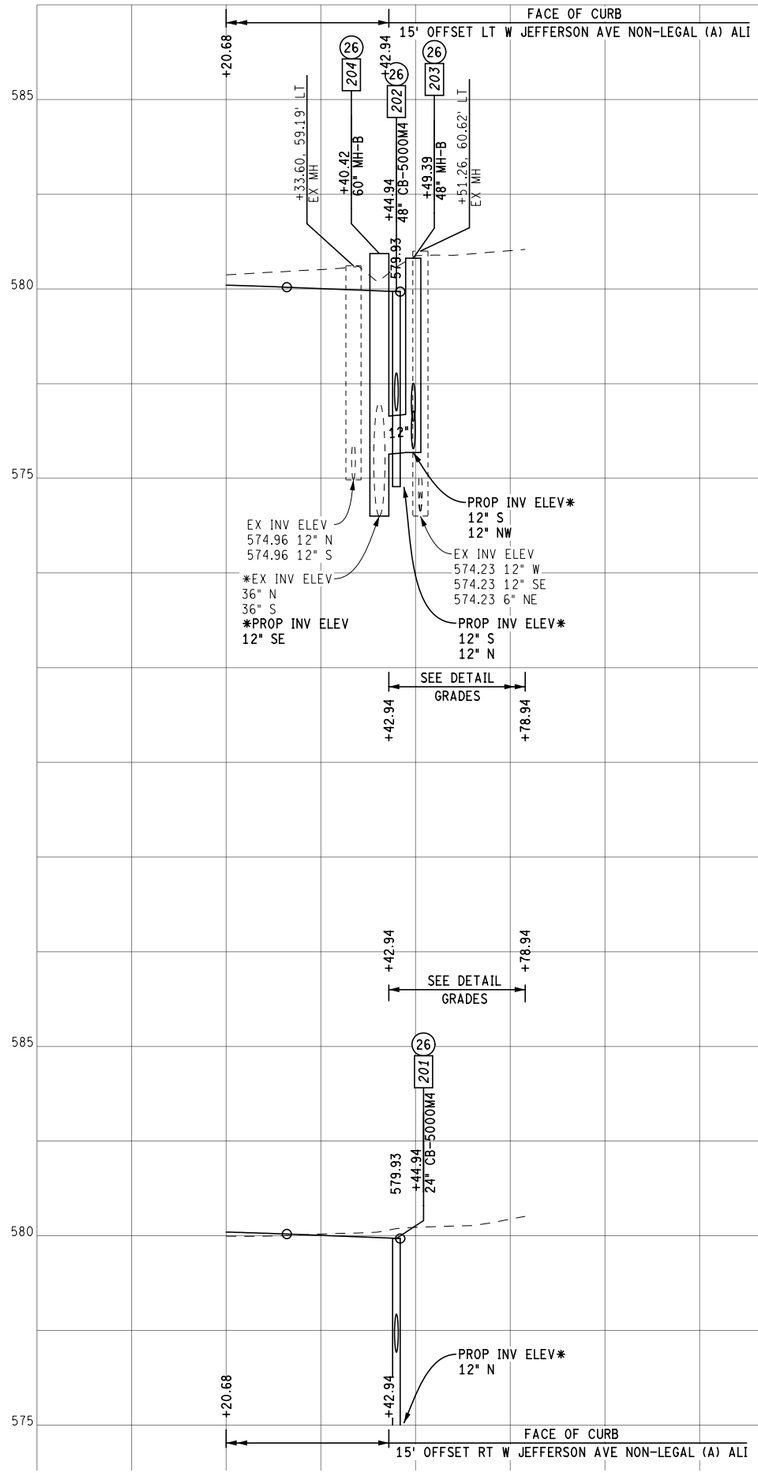
FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

PROFILE SHEET
RIVERSIDE PARK
W JEFFERSON STA 103+00 TO 103+78.94

DRAWING	SHEET
RIV PROF 005	32



585
580
575

—EX GROUND PROFILE AT W JEFFERSON AVE LT FACE OF CURB
—PROP PLAN GRADE AT W JEFFERSON AVE LT FACE OF CURB

—EX GROUND PROFILE AT W JEFFERSON AVE RT FACE OF CURB
—PROP PLAN GRADE AT W JEFFERSON AVE RT FACE OF CURB

NOTES:

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FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

Detroit

0 VERT. (FT) 4
0 HORZ. (FT) 40

FILE:

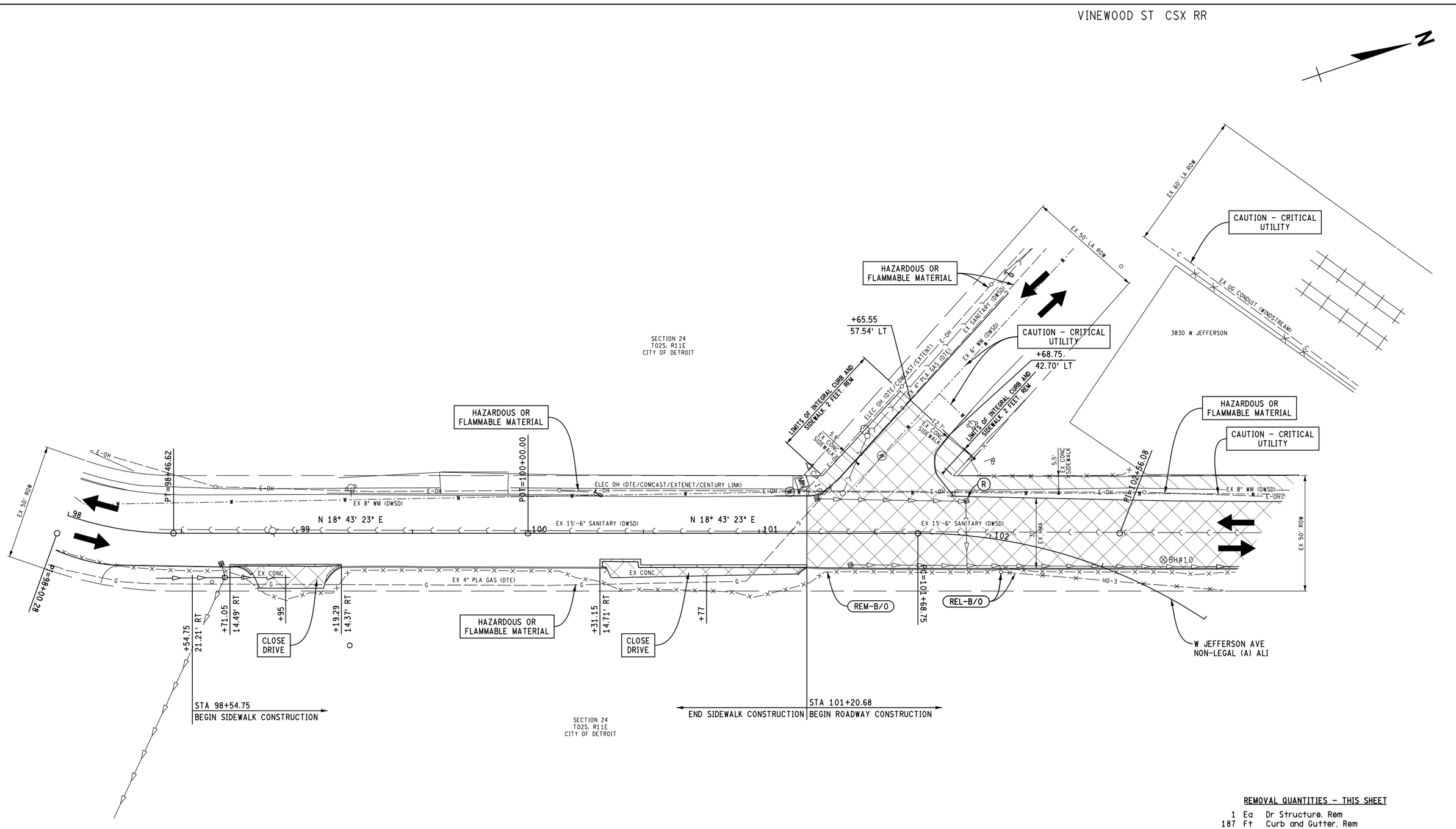
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

PROFILE SHEET
RIVERSIDE PARK
W JEFFERSON STA 103+00 TO 103+78.94

DRAWING: RIV PROF 006

SHEET: 33



REMOVAL QUANTITIES - THIS SHEET

	1	Ea	Dr Structure, Rem
	187	Ft	Curb and Gutter, Rem
	465	Ft	Fence, Rem
	137	Syd	Sidewalk, Rem
	93	Ft	Integral Curb and Sidewalk, 2 Feet, Rem, Modified
*	690	Cyd	Excavation, Earth, Modified
	813	Syd	HMA Surface, Rem

*INCLUDES 86 CYD OF TOPSOIL STRIPPING.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

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City of Detroit

0 HORZ. (FT) 40

FILE:

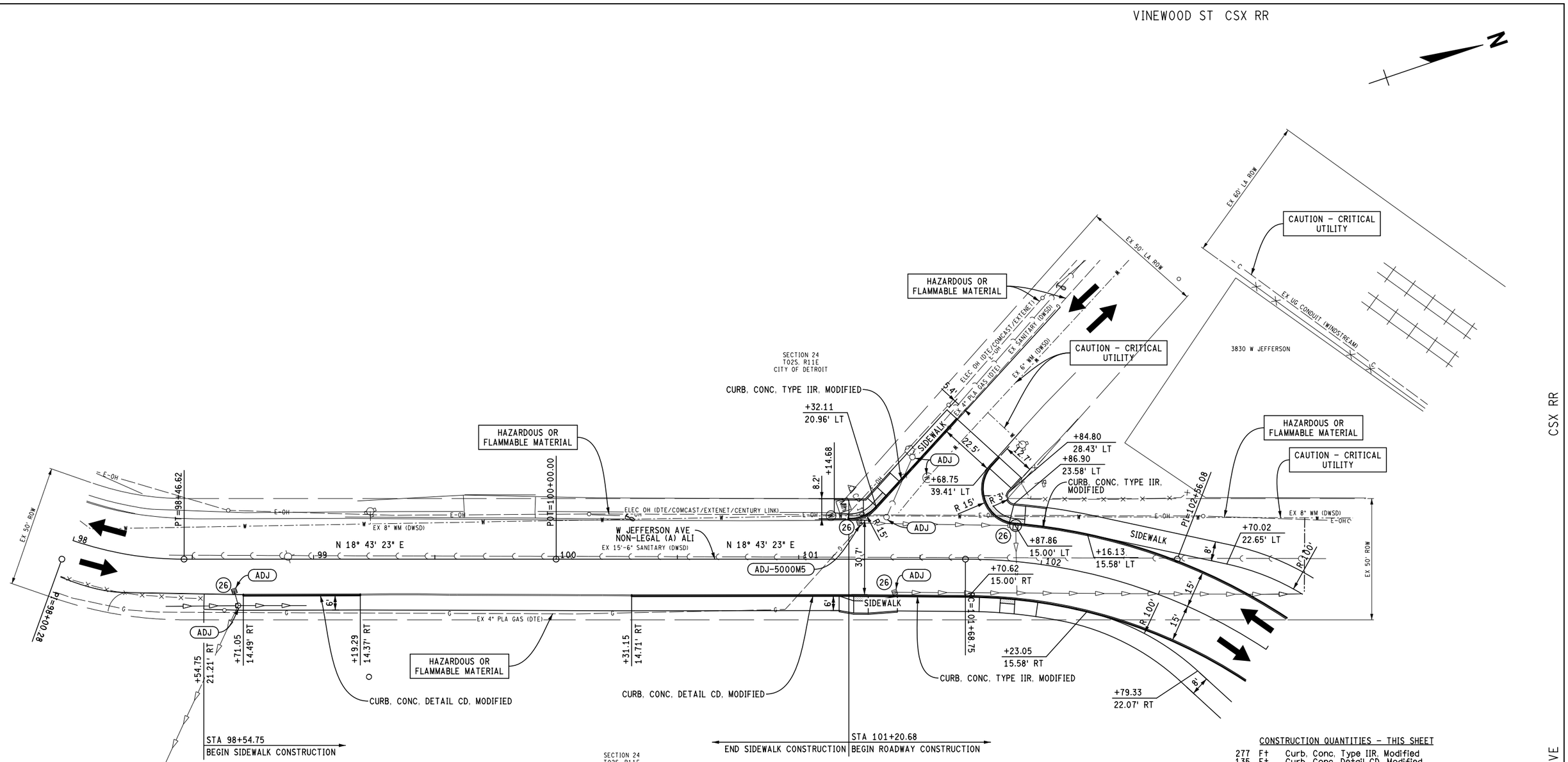
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

REMOVAL SHEET
RIVERSIDE PARK
W JEFFERSON STA 98+00 TO STA 103+00

DRAWING: RIV REM 002

SHEET: 34



NOTES:

ANY DAMAGES TO BUILDINGS SHALL BE REPAIRED BY CONTRACTOR AT NO EXPENSE TO THE CITY OF DETROIT PRIOR TO OPENING TO TRAFFIC.

ANY SLURRY ACCUMULATING ON BUILDINGS MUST BE REMOVED PRIOR TO OPENING TO TRAFFIC.

LOCATIONS OF OVERHEAD ELECTRICAL LINES THAT ARE TO BE RELOCATED BY OTHERS ARE TO BE DETERMINED. NEW LOCATIONS TO BE FIELD VERIFIED BY CONTRACTOR.

CONSTRUCTION QUANTITIES - THIS SHEET

277	Ft	Curb, Conc, Type IIR, Modified
135	Ft	Curb, Conc, Detail CD, Modified
3525	Sft	Sidewalk, Conc, 4 inch, Modified
492	Syd	Aggregate Base, 4 inch
830	Syd	Open-Graded Dr Cse, 12 inch
917	Syd	Geotextile, Separator
213	Cyd	Embankment, CIP
742	Syd	Conc Pavt, Nonreinf, 9 inch
398	Ft	Joint, Contraction, CP
54	Ft	Joint, Expansion, E2
425	Syd	Slope Restoration, Type A
360	Ft	Underdrain, Pipe, Open-Graded, 6 inch
40	Ft	Underdrain Outlet, 6 inch
6	Ea	Dr Structure Cover, Adj, Case 1, Modified
6	Ton	Hand Patching
917	Syd	Triaxial Geogrid
4	Ea	Erosion Control, Inlet Protection, Fabric Drop
54	Ft	Detectable Warning Surface
859	Sft	Sidewalk Ramp, ADA, Modified
115	Ft	Curb Ramp Opening, Conc

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

City of Detroit

0 HORZ. (FT) 40

FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

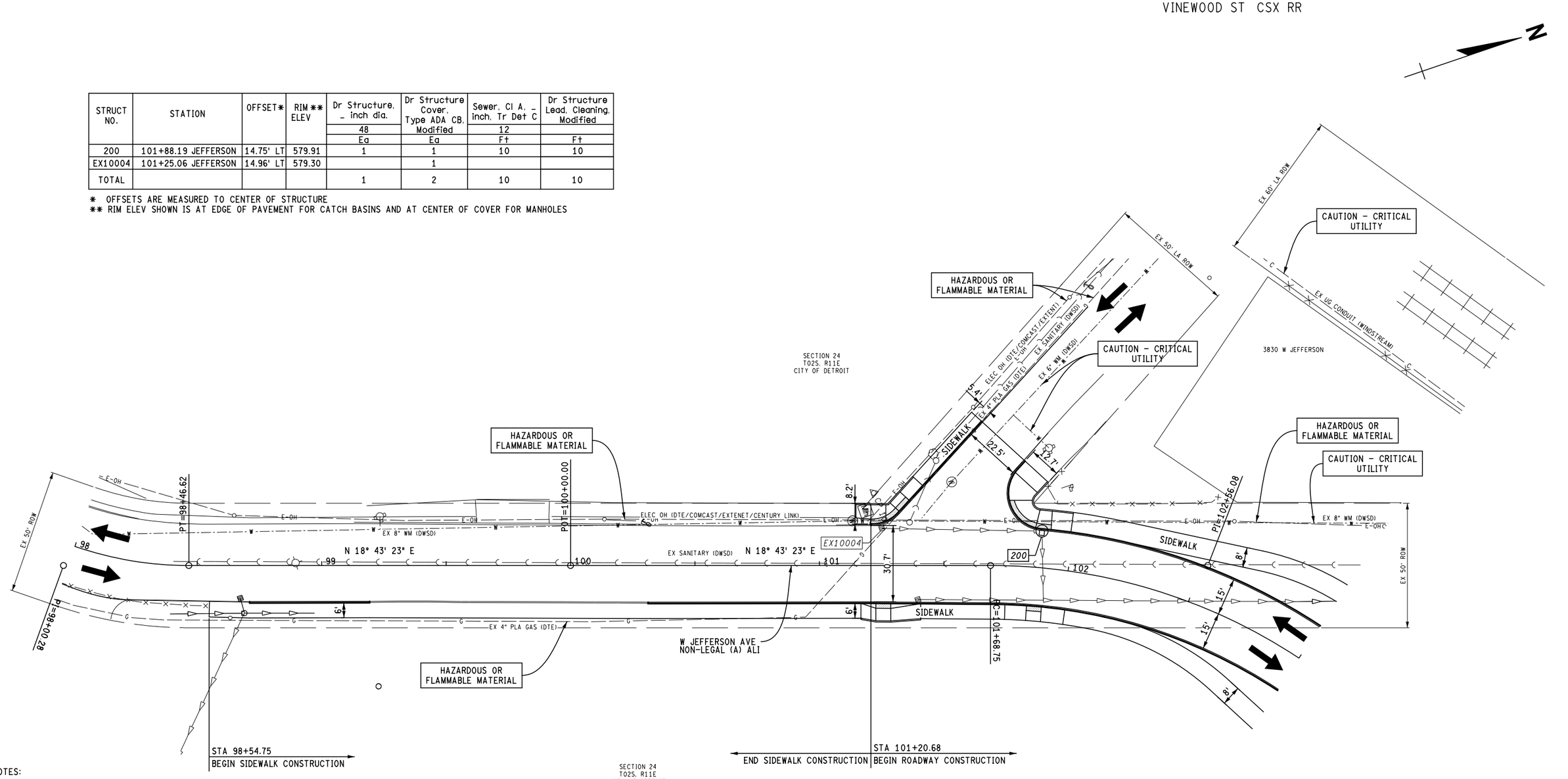
CONSTRUCTION SHEET
RIVERSIDE PARK
W JEFFERSON STA 98+00 TO STA 103+00

DRAWING: RIV CON 002

SHEET: 35

STRUCT NO.	STATION	OFFSET*	RIM ** ELEV	Dr Structure, _ inch dia.	Dr Structure Cover, Type ADA CB, Modified	Sewer, Cl A, _ inch, Tr Det C	Dr Structure Lead, Cleaning, Modified
				48		12	
				Ea	Ea	Ft	Ft
200	101+88.19 JEFFERSON	14.75' LT	579.91	1	1	10	10
EX10004	101+25.06 JEFFERSON	14.96' LT	579.30		1		
TOTAL				1	2	10	10

* OFFSETS ARE MEASURED TO CENTER OF STRUCTURE
** RIM ELEV SHOWN IS AT EDGE OF PAVEMENT FOR CATCH BASINS AND AT CENTER OF COVER FOR MANHOLES



NOTES:

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THE CONTRACTOR SHALL EXERCISE CAUTION IN ALL EXCAVATION ACTIVITY DUE TO POSSIBLE EXISTENCE OF UNRECORDED UTILITY LINES.

ALL PROPOSED DRAINAGE STRUCTURES THAT DIRECTLY CONNECT TO THE MAIN TRUNK SEWER SHALL BE TRAPPED.

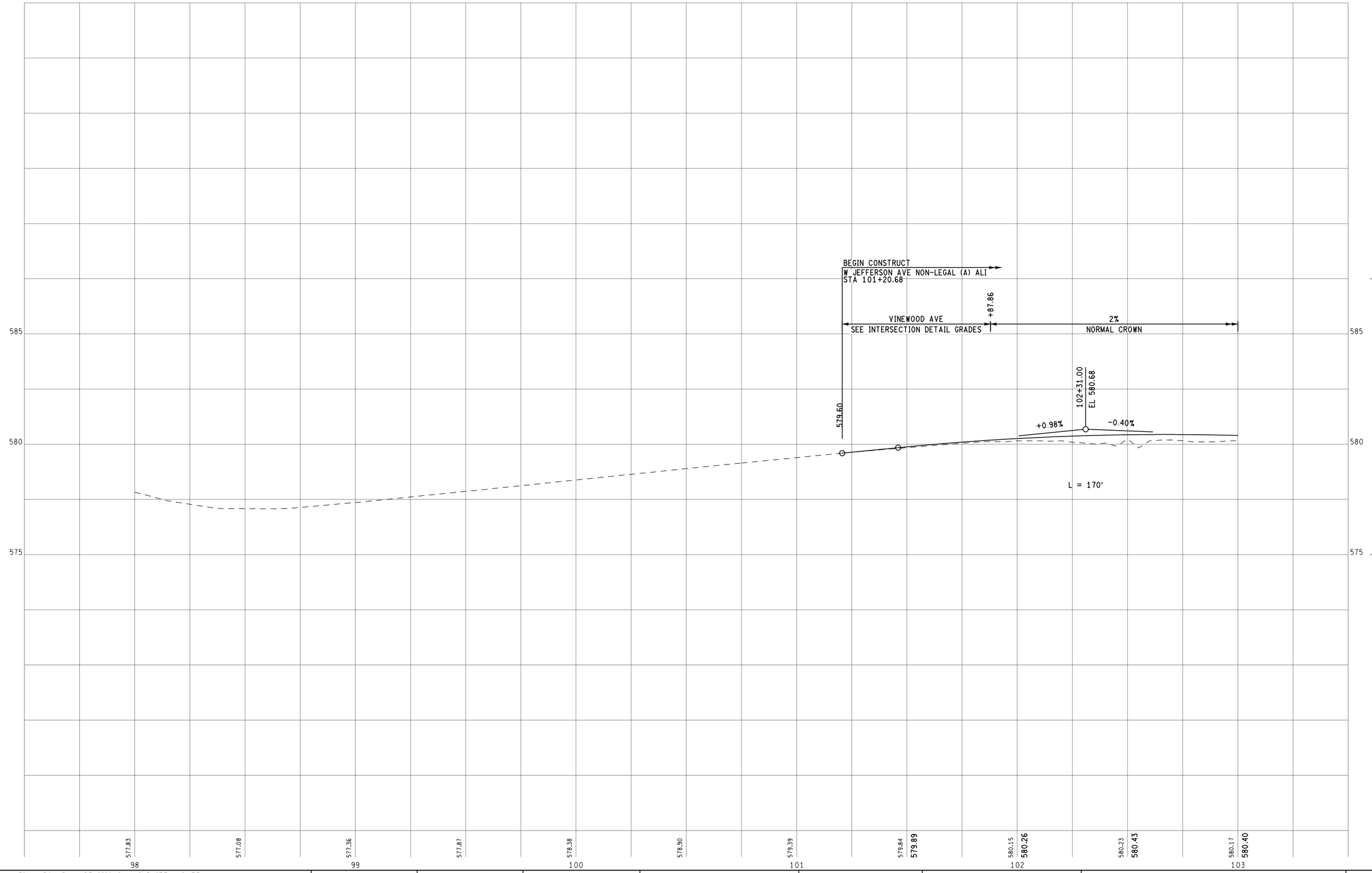
LOCATIONS OF OVERHEAD ELECTRICAL LINES THAT ARE TO BE RELOCATED BY OTHERS ARE TO BE DETERMINED. NEW LOCATIONS TO BE FIELD VERIFIED BY CONTRACTOR.

NOTES (CONT.):

DRAINAGE STRUCTURE SURVEY IS INCOMPLETE. ALL EXISTING SEWER CONNECTIVITY, INVERT ELEVATIONS, PIPE SIZES AND PIPE SLOPES ARE TO BE VERIFIED BY THE CONTRACTOR. PROPOSED INVERT ELEVATIONS. PIPE SIZES AND PIPE SLOPES NOT SHOWN ARE TO BE DESIGNED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp | Detroit | 0 HORZ. (FT) 40 | FILE: | DATE: 05/24/21 | JN: PW-7031 RIVERSIDE PARK | DRAINAGE SHEET / RIVERSIDE PARK / W JEFFERSON STA 98+00 TO STA 103+00 | DRAWING: RIV DRAIN 002 | SHEET: 36



FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

Detroit

VERT. (FT) 0 4
HORZ. (FT) 0 40

DATE: 05/24/21

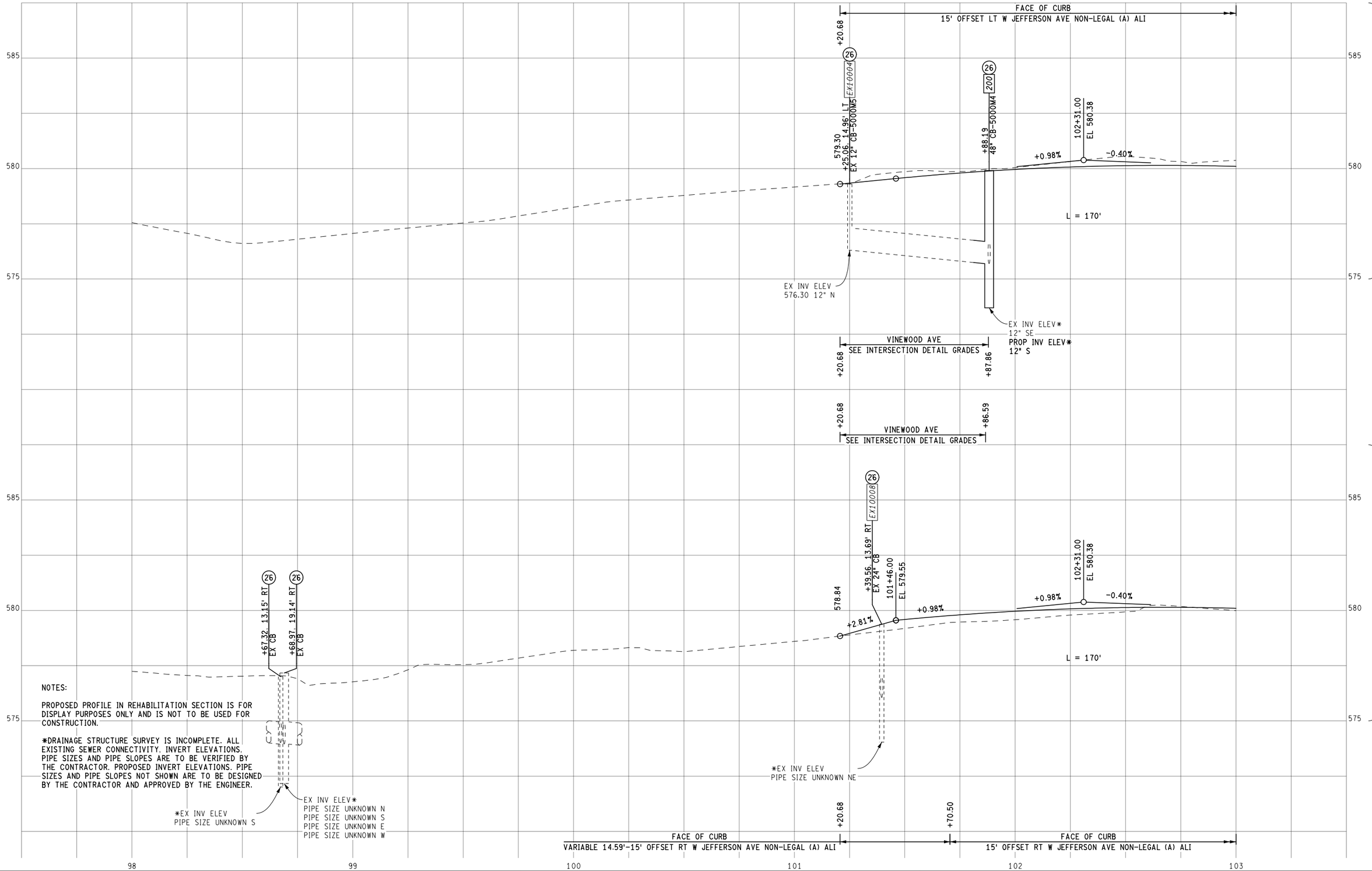
FILE:

JN: PW-7031
RIVERSIDE PARK

PROFILE SHEET
RIVERSIDE PARK
W JEFFERSON STA 98+00 TO 103+00

DRAWING: RIV PROF 007

SHEET: 37



NOTES:

PROPOSED PROFILE IN REHABILITATION SECTION IS FOR DISPLAY PURPOSES ONLY AND IS NOT TO BE USED FOR CONSTRUCTION.

*DRAINAGE STRUCTURE SURVEY IS INCOMPLETE. ALL EXISTING SEWER CONNECTIVITY, INVERT ELEVATIONS, PIPE SIZES AND PIPE SLOPES ARE TO BE VERIFIED BY THE CONTRACTOR. PROPOSED INVERT ELEVATIONS. PIPE SIZES AND PIPE SLOPES NOT SHOWN ARE TO BE DESIGNED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

Detroit

0 VERT. (FT) 4
0 HORZ. (FT) 40

FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

PROFILE SHEET
RIVERSIDE PARK
W JEFFERSON STA 98+00 TO 103+00

DRAWING: RIV PROF 008

SHEET: 38

W JEFFERSON AVE

CSX RR

SECTION 24
T02S, R11E
CITY OF DETROIT

3830 W GRAND BLVD

71 W GRAND BLVD

85 W GRAND BLVD

89 W GRAND BLVD

101 W GRAND BLVD

EX 60' LA ROW

CAUTION – CRITICAL UTILITY

EX UG CONDUIT (WINDSTREAM)

6' EX CONC SIDEWALK

ELEC OH (DTE/COMCAST/EXTENET/CENTURY LINK)

EX 6" WM (DWSD)

EX 15.6" SANITARY (DWSD)

EX 24" SANITARY (DWSD)

CONSENT TO GRADE DRIVE

CONSENT TO GRADE DRIVE

REL

CONSENT TO GRADE

HAZARDOUS OR FLAMMABLE MATERIAL

+20.15

+98.50

+86

+49

+48

+10.35
16.73' RT

W GRAND BLVD
NON-LEGAL (B) ALI

28° 51' 06" W

EX HMA OVER CONC

EX CONC SIDEWALK

HO-3

ELEC OH (LIGHTING)

REM-B/O

HAZARDOUS OR FLAMMABLE MATERIAL

EX UG ELECTRIC (DTE)

+74.04

+82.00

+10.35

N 28° 51' 06" W

+74.04
17.30' RT

W GRAND BLVD
NON-LEGAL (A) ALI

EX 9'-2" SANITARY (DWSD)

EX 3" PLA GAS (DTE)

EX SIDEWALK

EX 6" WM (DWSD)

+09

+83

+85

CAUTION – CRITICAL UTILITY

REL-B/O

HAZARDOUS OR FLAMMABLE MATERIAL

CAUTION – CRITICAL UTILITY

HAZARDOUS OR FLAMMABLE MATERIAL

+95.12

+73.47

111.8' EX HMA

EX CONC SIDEWALK

+15.36
72.94' RT

80 W GRAND BLVD

EX 8" WM (DWSD)

+91.52
94.74' RT

EX 50' ROW

EX 60' LA ROW

CAUTION – CRITICAL UTILITY

CAUTION – CRITICAL UTILITY

W GRAND BLVD

EX 200' ROW

NOTES:

CONTRACTOR TO VERIFY TIE-IN LOCATION TO EXISTING CURB ON SOUTH SIDE OF JEFFERSON AVENUE EAST OF W GRAND BLVD.

TRACK REMOVAL, RAILROAD GATE REMOVAL AND PAVEMENT REMOVAL BETWEEN TRACKS TO BE PERFORMED BY CSX.

REMOVAL QUANTITIES – THIS SHEET

9	Ea	Dr Structure, Rem
99	Ft	Curb and Gutter, Rem
1 3729	Syd	Pavt, Rem
1 406	Syd	Sidewalk, Rem
7	Ea	Bollard, Rem
1 1646	Cyd	Excavation, Earth, Modified
3878	Syd	HMA Surface, Rem
2211	Syd	Cold Milling HMA Surface, Modified
1	Ea	Mh, Rem (Detroit Public Lighting Department)
143	Ft	Sewer, Rem, Less than 24 inch
1	Ea	Tree, Rem, 6 inch to 18 inch
3	Ea	Tree, Rem, 19 inch to 36 inch
1 25	Ft	Post and Chain Fence, Rem and Salv

CSX RR

W JEFFERSON AVE

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION
1	06/04/21		DRIVEWAY GRADE UPDATES				

wsp

Detroit

0 HORZ. (FT) 40

DATE: 05/24/21

FILE:

JN: PW-7031
RIVERSIDE PARK

REMOVAL SHEET

RIVERSIDE PARK

NB W GRAND BLVD STA 15+00 TO STA 20+00

DRAWING: RIV REM 003

SHEET: 39

W JEFFERSON AVE

CSX RR

SECTION 24
T02S, R11E
CITY OF DETROIT

3830 W GRAND BLVD | 71 W GRAND BLVD | 85 W GRAND BLVD | 89 W GRAND BLVD | 101 W GRAND BLVD

EX 60' LA ROW

CAUTION – CRITICAL UTILITY

EX UG CONDUIT (WINDSTREAM)

CURB, CONC, TYPE IIR, MODIFIED

EX 24" SANITARY (DWSD)

CONSENT TO GRADE DRIVE

CONSENT TO GRADE

ADJ-5000M5

CURB, CONC, DETAIL CD, MODIFIED

W GRAND BLVD NON-LEGAL (B) ALI

EX SIDEWALK

HO-3

SIDEWALK

ADJ

ADJ-B/0

GRASS REINFORCEMENT

CURB AND GUTTER, CONC, DET B1

HAZARDOUS OR FLAMMABLE MATERIAL

EX 6" WM (DWSD)

EX 15"-6" SANITARY (DWSD)

EX 6" WM (DWSD)

EX UG ELECTRIC (DTE)

EX 9'-2" SANITARY (DWSD)

EX 3" PLA GAS (DTE)

ELEC OH (LIGHTING)

CP 110

EX 8" WM (DWSD)

EX 200' ROW

EX 50' ROW

W GRAND BLVD

N 28° 51' 06" W

80 W GRAND BLVD

NOTES:

CONTRACTOR TO VERIFY TIE-IN LOCATION TO EXISTING CURB ON SOUTH SIDE OF JEFFERSON AVENUE EAST OF W GRAND BLVD.

TRACKWORK TO BE PERFORMED BY CSX.

CONTRACTOR TO COORDINATE WITH RAILROAD AND PLACE PAVEMENT BETWEEN TRACKS.

ANY DAMAGES TO BUILDINGS SHALL BE REPAIRED BY CONTRACTOR AT NO EXPENSE TO THE CITY OF DETROIT PRIOR TO OPENING TO TRAFFIC.

ANY SLURRY ACCUMULATING ON BUILDINGS MUST BE REMOVED PRIOR TO OPENING TO TRAFFIC.

LOCATIONS OF OVERHEAD ELECTRICAL LINES THAT ARE TO BE RELOCATED BY OTHERS ARE TO BE DETERMINED. NEW LOCATIONS TO BE FIELD VERIFIED BY CONTRACTOR.

CONSTRUCTION QUANTITIES – THIS SHEET

⚠1	187	Ton	HMA, 5E3
⚠1	243	Ton	HMA, 4E3
	113	Ton	HMA, 13A
	308	Ft	Curb and Gutter, Conc, Det B1
	729	Ft	Curb, Conc, Type IIR, Modified
⚠1	300	Ft	Curb, Conc, Detail CD, Modified
⚠1	5665	Sft	Sidewalk, Conc, 4 inch, Modified
	1283	Sft	Sidewalk, Conc, 8 inch, Modified
⚠1	649	Syd	Aggregate Base, 4 inch
	220	Syd	Aggregate Base, 7.5 inch
⚠1	338	Syd	Aggregate Base, 8 inch
⚠1	125	Syd	Aggregate Base, 12 inch
	1565	Syd	Open-Graded Dr Cse, 6 inch
	320	Syd	Open-Graded Dr Cse, 12 inch
⚠1	2313	Syd	Geotextile, Separator
	1037	Cyd	Embankment, CIP
	1647	Syd	Conc Pavt, Nonreinf, 9 inch
⚠1	58	Syd	Conc Pavt, Nonreinf, 12 inch
	181	Ft	Joint, Contraction, CP
	402	Ft	Joint, Expansion, E2
	18	Ea	Erosion Control, Inlet Protection, Fabric Drop
	285	Ea	Lane Tie, Epoxy Anchored
⚠1	1391	Syd	Slope Restoration, Type A
	1	Ea	Gate Box, Adj, Case 1
	972	Ft	Underdrain, Pipe, Open-Graded, 6 inch
	160	Ft	Underdrain Outlet, 6 inch
⚠1	195	Syd	Driveway, Nonreinf Conc, 8 inch, Modified
	38	Ft	Detectable Warning Surface
	170	Sft	Sidewalk Ramp, ADA, Modified
	31	Ft	Curb Ramp Opening, Conc
	6	Ea	Dr Structure Cover, Adj, Case 1, Modified
⚠1	357	Syd	Triaxial Geogrid
	25	Ft	Post and Chain Fence, Reinstall

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION
1	06/04/21		DRIVEWAY GRADE UPDATES				

wsp

Detroit

0 HORZ. (FT) 40

DATE: 05/24/21

FILE:

JN: PW-7031
RIVERSIDE PARK

CONSTRUCTION SHEET
RIVERSIDE PARK
NB W GRAND BLVD STA 15+00 TO STA 20+00

DRAWING: RIV CON 003

SHEET: 40

W JEFFERSON AVE

CSX RR

SECTION 24
T02S, R11E
CITY OF DETROIT

EX 60' LA ROW

3830 W GRAND BLVD

71 W GRAND BLVD

85 W GRAND BLVD

89 W GRAND BLVD

101 W GRAND BLVD

CAUTION – CRITICAL UTILITY

EX UG CONDUIT (WINDSTREAM)

EX 24" SANITARY (DWSD)

EX 6" WM (DWSD)

HAZARDOUS OR FLAMMABLE MATERIAL

SIDEWALK

28.4'

30.3'

6.1'

N 28° 51' 06" W

W GRAND BLVD
NON-LEGAL (B) ALI

EX11000

EX10014

EX11001

EX11003

EX11004

EX 9'-2" SANITARY (DWSD)

W GRAND BLVD
NON-LEGAL (A) ALI

EX 3" PLA GAS (DTE)

EX SIDEWALK

ELEC OH (LIGHTING)

HO-3

CP 110

CP 104

EX UG ELECTRIC (DTE)

EX 15'-6" SANITARY (DWSD)

EX 6" WM (DWSD)

EX 8" WM (DWSD)

80 W GRAND BLVD

EX 50' ROW

EX 200' ROW

W GRAND BLVD

111 113 114 115 116 117 118 120 122 124 126 128 130 132

12" 8" 13' 21.7' 13.6' 31' 32.3' 8.5'

NOTES:

THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES ARE APPROXIMATE, AND ALL UTILITIES MAY NOT BE SHOWN. PRESENCE AND LOCATIONS OF ALL UTILITIES WITHIN THE LIMIT OF WORK MUST BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND CONTACTING THE CONTROLLING AUTHORITIES AND/OR UTILITY COMPANIES RELATIVE TO THE LOCATIONS AND ELEVATIONS OF THEIR LINES. THE CONTRACTOR SHALL KEEP A RECORD OF ANY DISCREPANCIES OR CHANGES IN THE LOCATIONS OF ANY UTILITIES SHOWN OR ENCOUNTERED DURING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER. ANY DAMAGE RESULTING FROM THE FAILURE OF THE CONTRACTOR TO MAKE THESE DETERMINATIONS AND CONTACTS SHALL BE BORNE BY THE CONTRACTOR.

THE CONTRACTOR SHALL EXERCISE CAUTION IN ALL EXCAVATION ACTIVITY DUE TO POSSIBLE EXISTENCE OF UNRECORDED UTILITY LINES.

ALL PROPOSED DRAINAGE STRUCTURES THAT DIRECTLY CONNECT TO THE MAIN TRUNK SEWER SHALL BE TRAPPED.

LOCATIONS OF OVERHEAD ELECTRICAL LINES THAT ARE TO BE RELOCATED BY OTHERS ARE TO BE DETERMINED. NEW LOCATIONS TO BE FIELD VERIFIED BY CONTRACTOR.

DRAINAGE STRUCTURE SURVEY IS INCOMPLETE. ALL EXISTING SEWER CONNECTIVITY, INVERT ELEVATIONS, PIPE SIZES AND PIPE SLOPES ARE TO BE VERIFIED BY THE CONTRACTOR. PROPOSED INVERT ELEVATIONS, PIPE SIZES AND PIPE SLOPES NOT SHOWN ARE TO BE DESIGNED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

Detroit

0 HORZ. (FT) 40

DATE: 05/24/21

FILE:

JN: PW-7031
RIVERSIDE PARK

DRAINAGE SHEET
RIVERSIDE PARK
NB W GRAND BLVD STA 15+00 TO STA 20+00

DRAWING: RIV DRAIN 003

SHEET: 41

STRUCT NO.	STATION	OFFSET*	RIM ** ELEV	Dr Structure, _ inch dia.	Dr Structure, _ inch dia.	Dr Structure Cover, Type CB, Modified	Dr Structure Cover, Type ADA CB, Modified	Dr Structure Cover, Type MH, Modified	Sewer, Cl A, _ inch, Tr Det A	Sewer, Cl A, _ inch, Tr Det C	Sewer Tap, _ inch	Dr Structure Lead, Cleaning, Modified	Dr Structure Cleaning, Modified
				24	48				12	12	12		
				Ea	Ea	Ea	Ea	Ea	Ft	Ft	Ea	Ft	Ea
111	16+88.49 SB GRAND	13.54' RT	581.81		1	1				23			
113	16+93.61 SB GRAND	9.15' LT	581.89		1		1			10		10	
114	16+51.61 NB GRAND	12.57' LT	581.12	1		1				21			
115	17+51.91 SB GRAND	10.75' RT	581.94		1	1				64			
116	16+65.49 NB GRAND	27.42' LT	580.91		1	1			61				
117	17+80.78 SB GRAND	22.63' RT	581.79		1	1				5		5	
118	16+88.07 NB GRAND	90.56' RT	580.61		1	1			5	5	1	10	
120	16+96.93 NB GRAND	49.82' RT	581.39		1			1		10		10	
122	16+98.03 NB GRAND	27.00' LT	580.91	1		1			24				
124	17+10.51 NB GRAND	69.10' RT	580.84	1		1				24			
126	17+09.14 NB GRAND	16.12' RT	581.90		1			1	10			10	
128	17+14.66 NB GRAND	9.72' RT	581.35	1		1				9			
130	17+15.03 NB GRAND	10.75' LT	581.33		1	1			73				
132	17+75.04 NB GRAND	17.05' RT	582.27		1		1			10	1	10	
EX11000	17+76.78 SB GRAND	15.22' LT	582.15				1					15	1
EX11001	19+75.74 SB GRAND	27.57' RT	586.69									5	1
EX11003	19+45.54 NB GRAND	27.55' LT	586.97									5	1
EX10014	19+79.05 SB GRAND	16.30' LT	586.71				1					15	1
TOTAL				4	10	10	4	2	173	181	2	95	4

* OFFSETS ARE MEASURED TO CENTER OF STRUCTURE
** RIM ELEV SHOWN IS AT EDGE OF PAVEMENT FOR CATCH BASINS AND AT CENTER OF COVER FOR MANHOLES

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

Detroit

0 HORZ. (FT) 40

FILE:

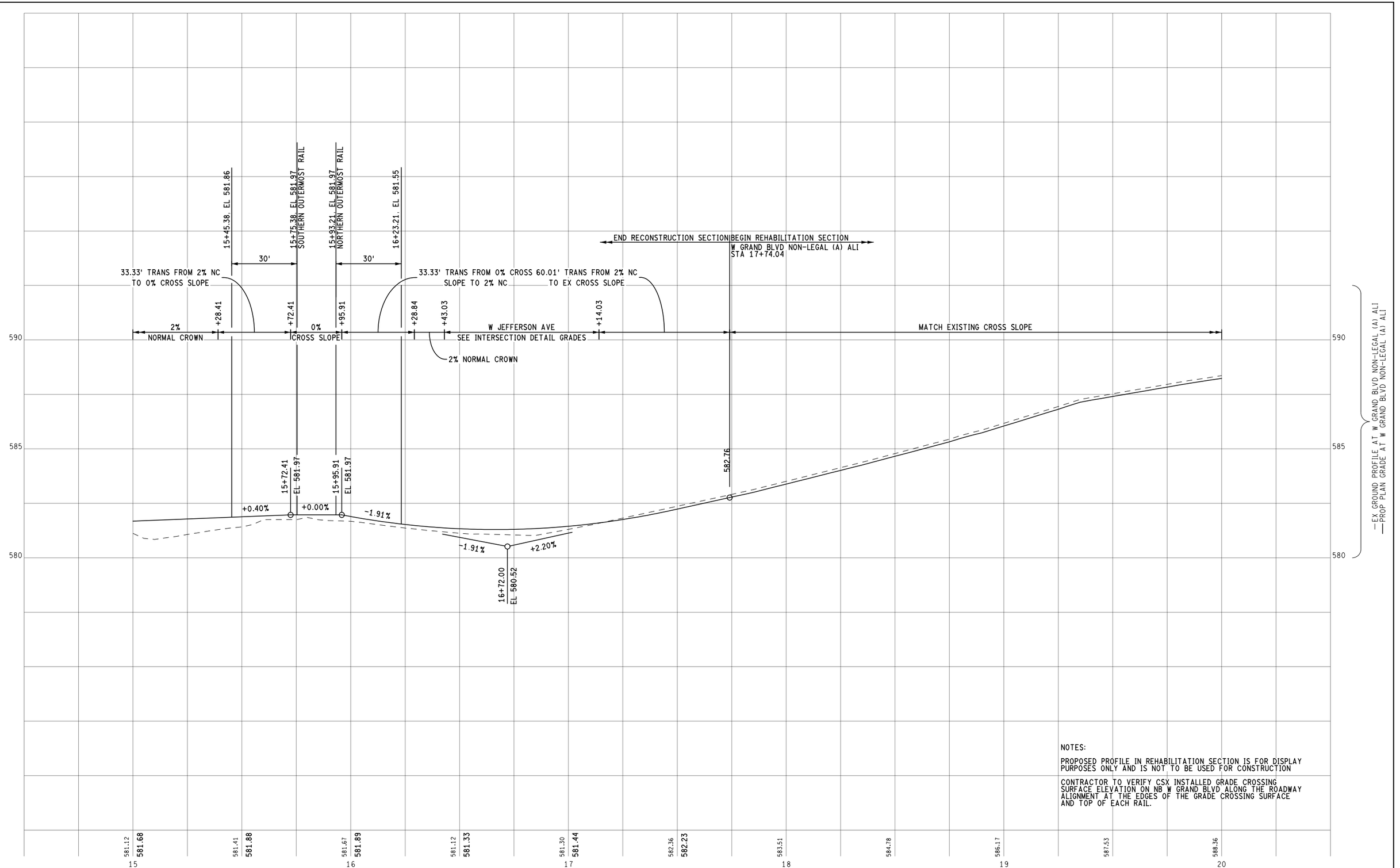
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

DRAINAGE QUANTITY SHEET
RIVERSIDE PARK
NB W GRAND BLVD STA 15+00 TO STA 20+00

DRAWING: RIV DRNQTY 002

SHEET: 42



NOTES:

PROPOSED PROFILE IN REHABILITATION SECTION IS FOR DISPLAY PURPOSES ONLY AND IS NOT TO BE USED FOR CONSTRUCTION

CONTRACTOR TO VERIFY CSX INSTALLED GRADE CROSSING SURFACE ELEVATION ON NB W GRAND BLVD ALONG THE ROADWAY ALIGNMENT AT THE EDGES OF THE GRADE CROSSING SURFACE AND TOP OF EACH RAIL.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

Detroit

VERT. (FT) 0 4
HORZ. (FT) 0 40

FILE:

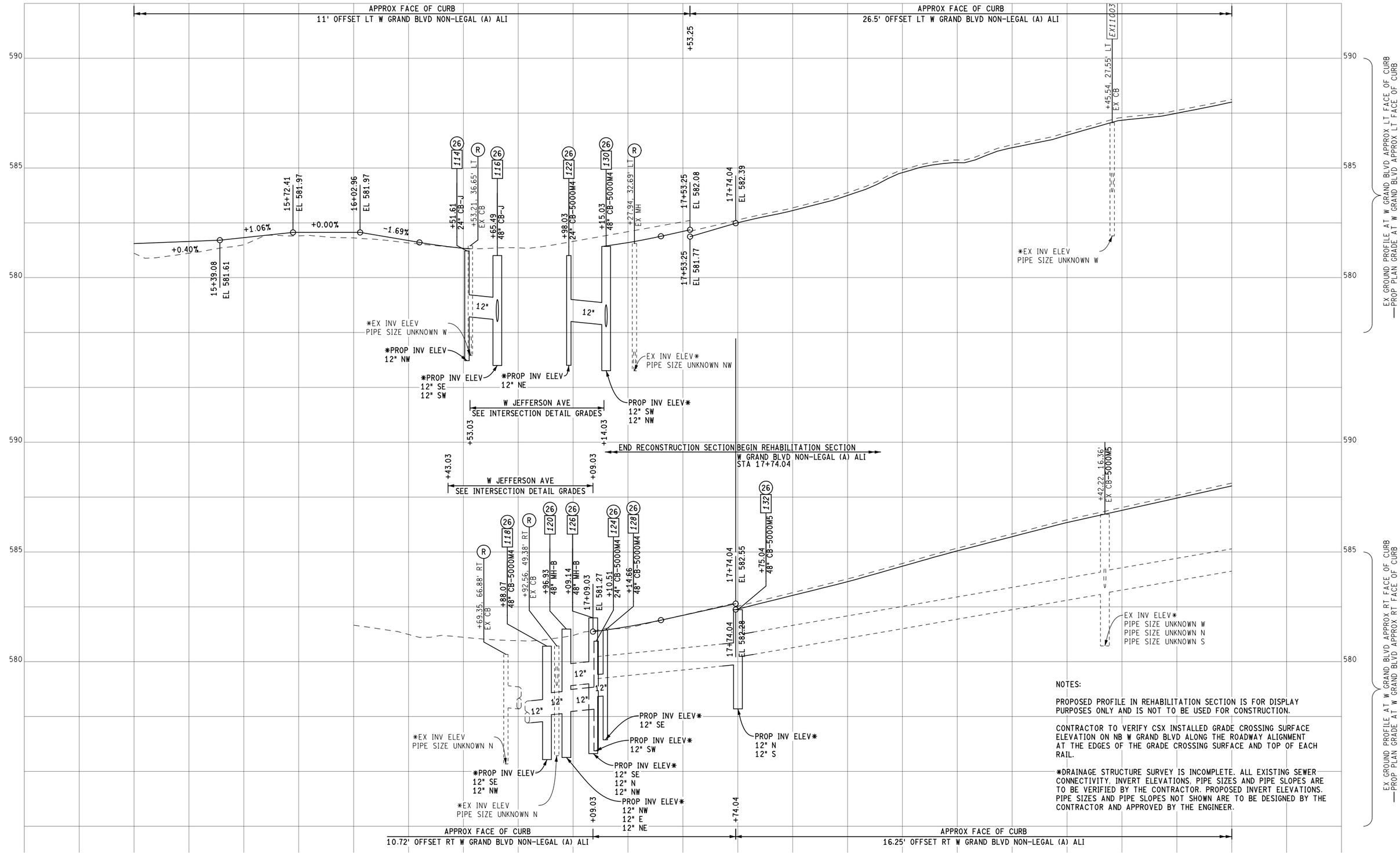
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

PROFILE SHEET
RIVERSIDE PARK
NB W GRAND BLVD STA 15+00 TO 20+00

DRAWING: RIV PROF 009

SHEET: 43



NOTES:

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CONTRACTOR TO VERIFY CSX INSTALLED GRADE CROSSING SURFACE ELEVATION ON NB W GRAND BLVD ALONG THE ROADWAY ALIGNMENT AT THE EDGES OF THE GRADE CROSSING SURFACE AND TOP OF EACH RAIL.

*DRAINAGE STRUCTURE SURVEY IS INCOMPLETE. ALL EXISTING SEWER CONNECTIVITY, INVERT ELEVATIONS, PIPE SIZES AND PIPE SLOPES ARE TO BE VERIFIED BY THE CONTRACTOR. PROPOSED INVERT ELEVATIONS. PIPE SIZES AND PIPE SLOPES NOT SHOWN ARE TO BE DESIGNED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

City of Detroit

0 VERT. (FT) 4
0 HORZ. (FT) 40

FILE:

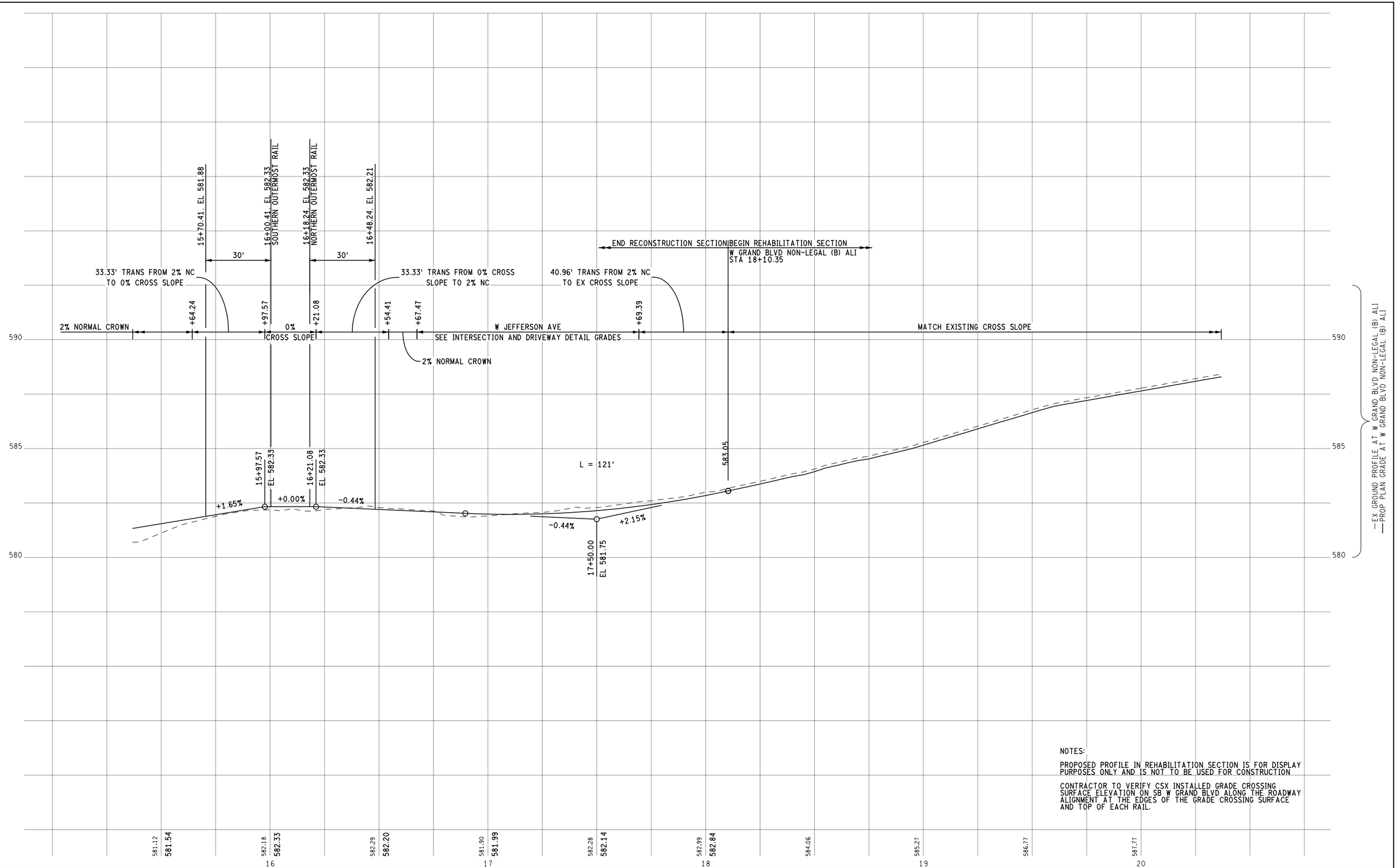
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

PROFILE SHEET
RIVERSIDE PARK
NB W GRAND BLVD STA 15+00 TO 20+00

DRAWING: RIV PROF 010

SHEET: 44



NOTES:

PROPOSED PROFILE IN REHABILITATION SECTION IS FOR DISPLAY PURPOSES ONLY AND IS NOT TO BE USED FOR CONSTRUCTION

CONTRACTOR TO VERIFY CSX INSTALLED GRADE CROSSING SURFACE ELEVATION ON SB W GRAND BLVD ALONG THE ROADWAY ALIGNMENT AT THE EDGES OF THE GRADE CROSSING SURFACE AND TOP OF EACH RAIL.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

City of Detroit

VERT. (FT) 0 4
HORZ. (FT) 0 40

FILE:

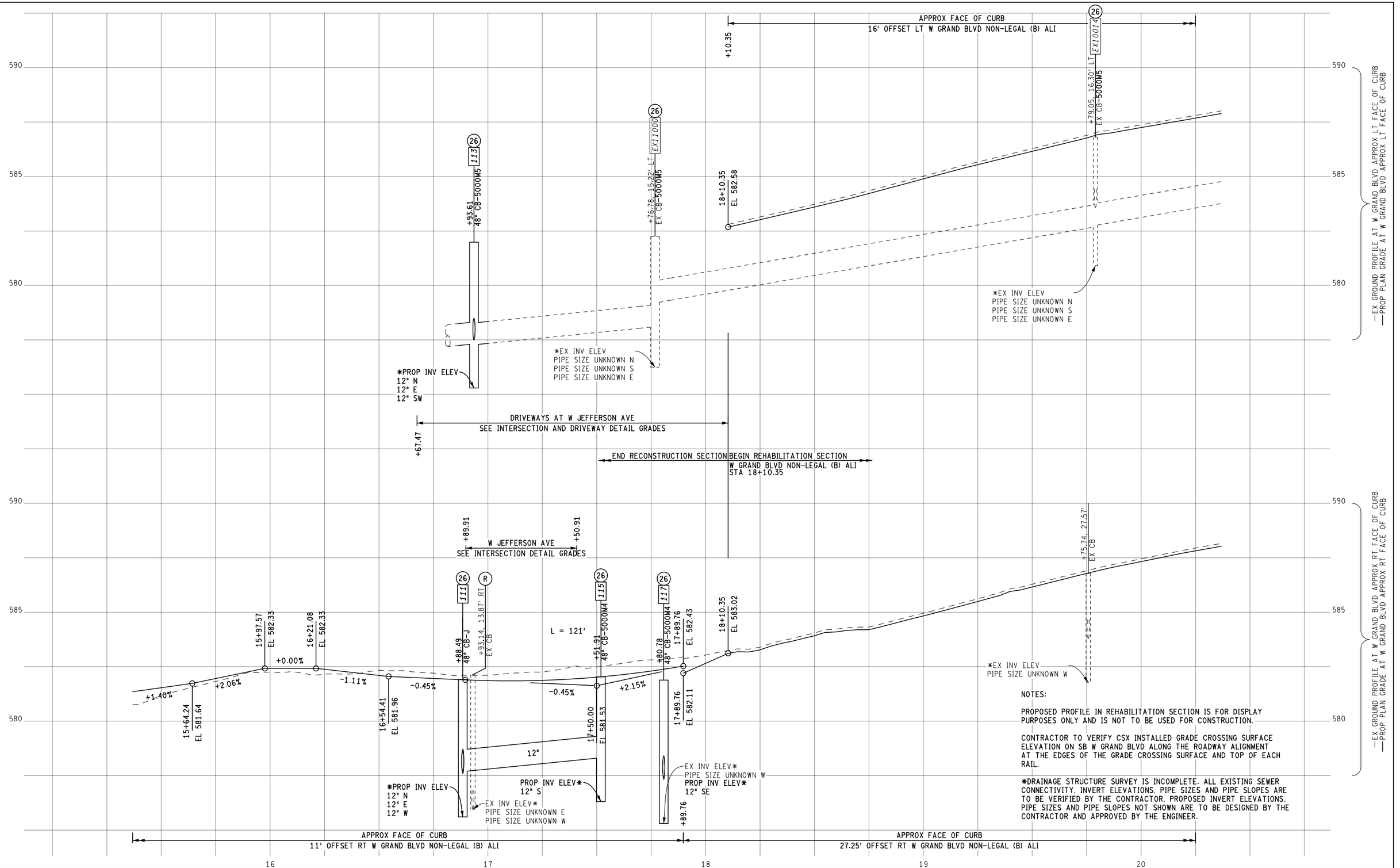
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

PROFILE SHEET
RIVERSIDE PARK
SB W GRAND BLVD STA 15+36.88 TO 20+36.88

DRAWING: RIV PROF 011

SHEET: 45



NOTES:

PROPOSED PROFILE IN REHABILITATION SECTION IS FOR DISPLAY PURPOSES ONLY AND IS NOT TO BE USED FOR CONSTRUCTION.

CONTRACTOR TO VERIFY CSX INSTALLED GRADE CROSSING SURFACE ELEVATION ON SB W GRAND BLVD ALONG THE ROADWAY ALIGNMENT AT THE EDGES OF THE GRADE CROSSING SURFACE AND TOP OF EACH RAIL.

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FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

Detroit

VERT. (FT) 0 4

HORZ. (FT) 0 40

FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

PROFILE SHEET
RIVERSIDE PARK
SB W GRAND BLVD STA 15+36.88 TO 20+36.88

DRAWING: RIV PROF 012

SHEET: 46

SECTION 24
T02S, R11E
CITY OF DETROIT

103 W GRAND BLVD | 107 W GRAND BLVD | 111 W GRAND BLVD | 117 W GRAND BLVD | 123 W GRAND BLVD | 129 W GRAND BLVD | 133 W GRAND BLVD | 17 W GRAND BLVD

N

W GRAND BLVD

EX 200' ROW

LANDSCAPING PAVERS AND PARKING BLOCKS ADJACENT TO WORK SHALL BE REMOVED AND SALVAGED. COST OF THIS WORK INCLUDED IN RELATED ITEMS OF WORK.

HAZARDOUS OR FLAMMABLE MATERIAL

CONSENT TO GRADE

CONSENT TO RECONSTRUCT SIDEWALK

CONSENT TO GRADE DRIVE

CONSENT TO GRADE DRIVE

CONSENT TO GRADE DRIVE

CONSENT TO GRADE DRIVE

SIDEWALK | HO-3 | ELEC OH (LIGHTING) | HU-1 | EX SIDEWALK

+43.33
16.53' RT

W GRAND BLVD
NON-LEGAL (B) ALI

N 28° 51' 06" W

N 34° 41' 27" W

PC=23+73.49

PT=24+75.41

PI=24+24.49

+98.50

45' EX HMA OVER CONC

EX UG ELECTRIC (DTE)

EX 9'-2" SANITARY (DWSD)

BH#01

EX HMA OVER CONC

EX 4" PLA GAS (DTE)

W GRAND BLVD
NON-LEGAL (A) ALI

N 39° 57' 02" W

PC=23+13.94

PT=24+31.11

PI=23+87.99

EX 3" PLA GAS (DTE)

ELEC OH (LIGHTING)

EX SIDEWALK

EX 6" WW (DWSD)

HAZARDOUS OR FLAMMABLE MATERIAL

HAZARDOUS OR FLAMMABLE MATERIAL

HAZARDOUS OR FLAMMABLE MATERIAL

CAUTION – CRITICAL UTILITY

SECTION 24
T02S, R11E
CITY OF DETROIT

⚠1 REMOVAL QUANTITIES – THIS SHEET

85	Ft	Curb and Gutter, Rem
642	Syd	Pavt, Rem
184	Syd	Sidewalk, Rem
268	Cyd	Excavation, Earth, Modified
599	Syd	HMA Surface, Rem
4527	Syd	Cold Milling HMA Surface, Modified
25	Ft	Post and Chain Fence, Rem and Salv
26	Ft	Ornamental Fence, Salvage

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION
1	06/04/21		DRIVEWAY GRADE UPDATES				

wsp

Detroit

0 HORZ. (FT) 40

FILE:

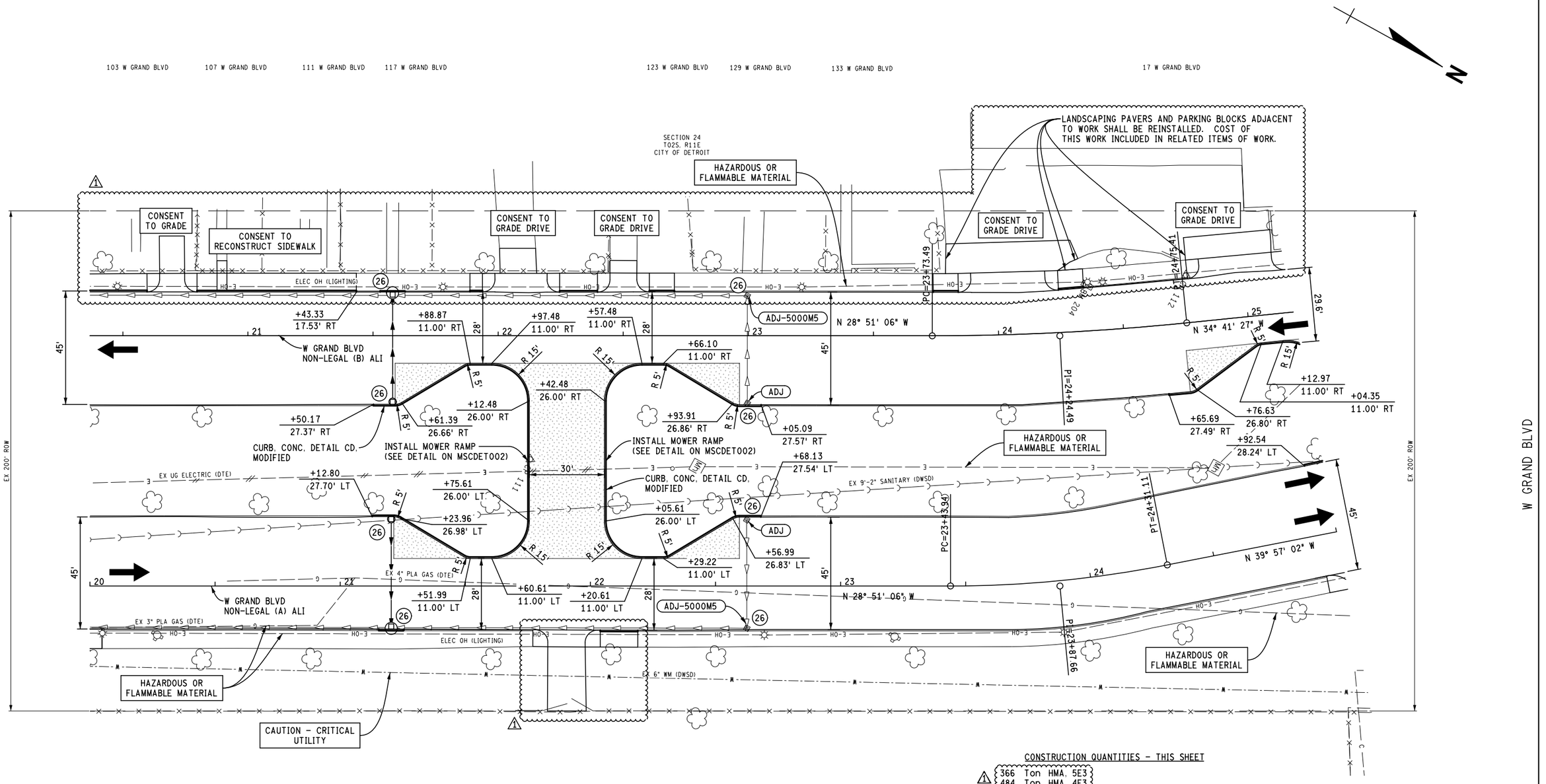
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

REMOVAL SHEET
RIVERSIDE PARK
NB W GRAND BLVD STA 20+00 TO STA 25+00

DRAWING: RIV REM 004

SHEET: 47



SECTION 24
T02S, R11E
CITY OF DETROIT

CONSTRUCTION QUANTITIES - THIS SHEET

⚠1	366	Ton	HMA, 5E3
	484	Ton	HMA, 4E3
	70	Ton	HMA Approach, Modified
⚠1	590	Ft	Curb, Conc, Detail CD, Modified
	64	Ft	Curb, Conc, Type IIR, Modified
⚠1	111	Syd	Aggregate Base, 4 inch
	118	Syd	Aggregate Base, 6 inch
	206	Syd	Aggregate Base, 8 inch
	271	Syd	Aggregate Base, 12 inch
	85	Syd	Open-Graded Dr Cse, 6 inch
⚠1	500	Syd	Geotextile, Separator
	240	Cyd	Embankment, CIP
	70	Syd	Conc Pavt, Nonreinf, 9 inch
	139	Syd	Conc Pavt, Nonreinf, 12 inch
	4	Ea	Dr Structure Cover, Adj, Case 1, Modified
	583	Ea	Lane Tie, Epoxy Anchored
	285	Ft	Joint, Contraction, Crg
⚠1	370	Syd	Slope Restoration, Type A
⚠1	1053	Sft	Sidewalk, Conc, 4 inch, Modified
	469	Sft	Sidewalk, Conc, 8 inch, Modified
	153	Syd	Driveway, Nonreinf Conc, 8 inch, Modified
	8	Ea	Erosion Control, Inlet Protection, Fabric Drop
⚠1	25	Ft	Post and Chain Fence, Reinstall
	26	Ft	Ornamental Fence, Place

NOTES:

ANY DAMAGES TO BUILDINGS SHALL BE REPAIRED BY CONTRACTOR AT NO EXPENSE TO THE CITY OF DETROIT PRIOR TO OPENING TO TRAFFIC.

ANY SLURRY ACCUMULATING ON BUILDINGS MUST BE REMOVED PRIOR TO OPENING TO TRAFFIC.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION
1	06/04/21		DRIVEWAY GRADE UPDATES				

wsp

Detroit

0 HORZ. (FT) 40

FILE:

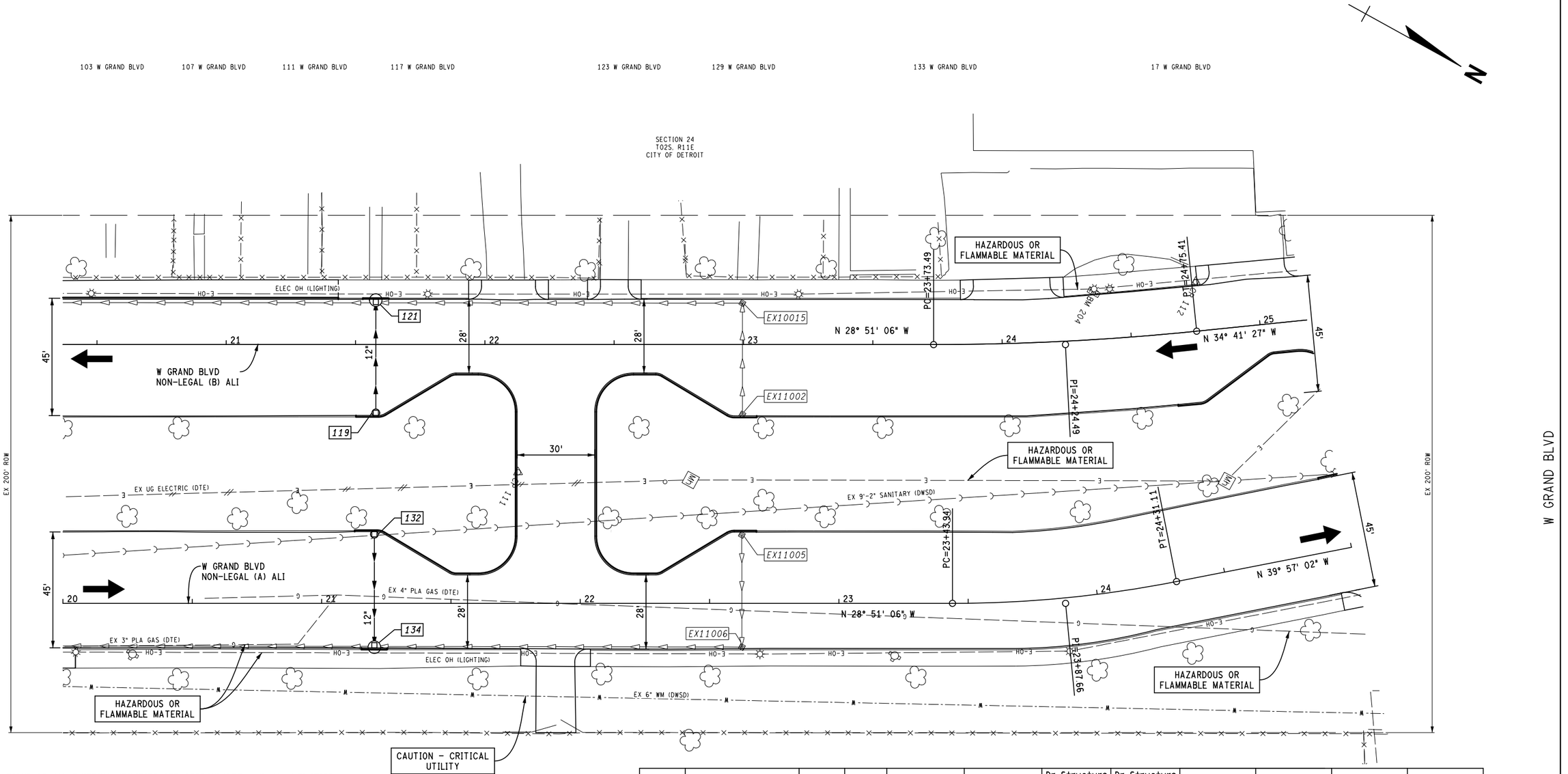
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

CONSTRUCTION SHEET
RIVERSIDE PARK
NB W GRAND BLVD STA 20+00 TO STA 25+00

DRAWING: RIV CON 004

SHEET: 48



NOTES:

THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES ARE APPROXIMATE, AND ALL UTILITIES MAY NOT BE SHOWN. PRESENCE AND LOCATIONS OF ALL UTILITIES WITHIN THE LIMIT OF WORK MUST BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND CONTACTING THE CONTROLLING AUTHORITIES AND/OR UTILITY COMPANIES RELATIVE TO THE LOCATIONS AND ELEVATIONS OF THEIR LINES. THE CONTRACTOR SHALL KEEP A RECORD OF ANY DISCREPANCIES OR CHANGES IN THE LOCATIONS OF ANY UTILITIES SHOWN OR ENCOUNTERED DURING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER. ANY DAMAGE RESULTING FROM THE FAILURE OF THE CONTRACTOR TO MAKE THESE DETERMINATIONS AND CONTACTS SHALL BE BORNE BY THE CONTRACTOR.

THE CONTRACTOR SHALL EXERCISE CAUTION IN ALL EXCAVATION ACTIVITY DUE TO POSSIBLE EXISTENCE OF UNRECORDED UTILITY LINES.

ALL PROPOSED DRAINAGE STRUCTURES THAT DIRECTLY CONNECT TO THE MAIN TRUNK SEWER SHALL BE TRAPPED.

DRAINAGE STRUCTURE SURVEY IS INCOMPLETE. ALL EXISTING SEWER CONNECTIVITY, INVERT ELEVATIONS, PIPE SIZES AND PIPE SLOPES ARE TO BE VERIFIED BY THE CONTRACTOR. PROPOSED INVERT ELEVATIONS, PIPE SIZES AND PIPE SLOPES NOT SHOWN ARE TO BE DESIGNED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

SECTION 24
T02S, R11E
CITY OF DETROIT

STRUCT NO.	STATION	OFFSET*	RIM ** ELEV	Dr Structure, _ inch dia.	Dr Structure, _ inch dia.	Dr Structure Cover, Type CB, Modified	Dr Structure Cover, Type ADA CB, Modified	Sewer, Cl A, _ inch, Tr Det B	Sewer Tap, _ inch	Dr Structure Lead, Cleaning, Modified	Dr Structure Cleaning, Modified
				24	48			12	12		
				Ea	Ea	Ea	Ea	Ft	Ea	Ft	Ea
119	21+57.82 SB GRAND	26.37' RT	589.53	1		1		43			
121	21+57.82 SB GRAND	17.21' LT	589.42		1		1	10	1	10	
132	21+20.39 NB GRAND	26.70' LT	589.69	1		1		44			
134	21+20.39 NB GRAND	16.96' RT	589.54		1		1	10	1	10	
EX10015	22+99.58 SB GRAND	16.02' LT	590.69				1			10	1
EX11002	22+99.58 SB GRAND	27.02' RT	590.65							5	1
EX11005	22+62.47 NB GRAND	26.44' LT	590.73							5	1
EX11006	22+62.52 NB GRAND	16.88' RT	590.70				1			10	1
TOTAL				2	2	2	4	107	2	50	4

* OFFSETS ARE MEASURED TO CENTER OF STRUCTURE
** RIM ELEV SHOWN IS AT EDGE OF PAVEMENT FOR CATCH BASINS AND AT CENTER OF COVER FOR MANHOLES

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

Detroit

0 HORZ. (FT) 40

FILE:

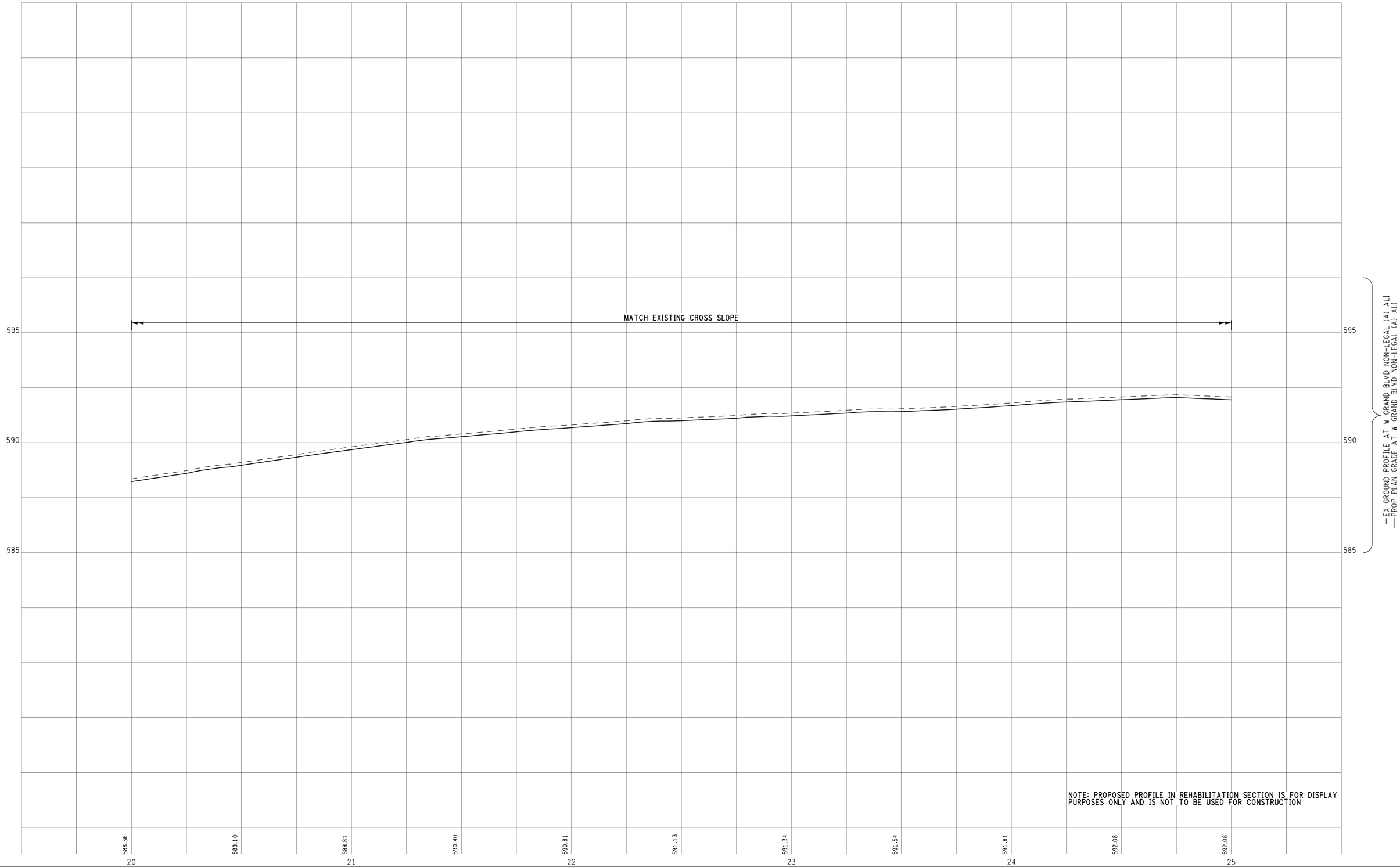
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

DRAINAGE SHEET
RIVERSIDE PARK
NB W GRAND BLVD STA 20+00 TO STA 25+00

DRAWING: RIV DRAIN 004

SHEET: 49



NOTE: PROPOSED PROFILE IN REHABILITATION SECTION IS FOR DISPLAY PURPOSES ONLY AND IS NOT TO BE USED FOR CONSTRUCTION

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

Detroit

0 VERT. (FT) 4
0 HORZ. (FT) 40

FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

PROFILE SHEET
RIVERSIDE PARK
NB W GRAND BLVD STA 20+00 TO 25+00

DRAWING: RIV PROF 013

SHEET: 50

APPROX FACE OF CURB
26.5' OFFSET LT W GRAND BLVD NON-LEGAL (A) ALI

26 132
+20.39
24" CB-5000M4
21+21.39
EL 583.72

26 EX11005
22+59.56
EL 590.72
+62.47, 26.44' LT
EX CB

*PROP INV ELEV
12" E

*EX INV ELEV
PIPE SIZE UNKNOWN E

PROPOSED BUMPOUTS AND MEDIAN CROSSOVER

+21.39

+59.56

595
590
585

— EX GROUND PROFILE AT W GRAND BLVD APPROX LT FACE OF CURB
— PROP PLAN GRADE AT W GRAND BLVD APPROX LT FACE OF CURB

26 134
+20.39
48" CB-5000M5

26 EX11006
+62.52, 16.88' RT
EX CB-5000M5

*PROP INV ELEV
12" W
12" N
12" S

*EX INV ELEV
PIPE SIZE UNKNOWN W
PIPE SIZE UNKNOWN S

APPROX FACE OF CURB
16.25' OFFSET RT W GRAND BLVD NON-LEGAL (A) ALI

20 21 22 23 24 25

NOTES:

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FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

CITY OF Detroit

VERT. (FT) 0 4
HORZ. (FT) 0 40

FILE:

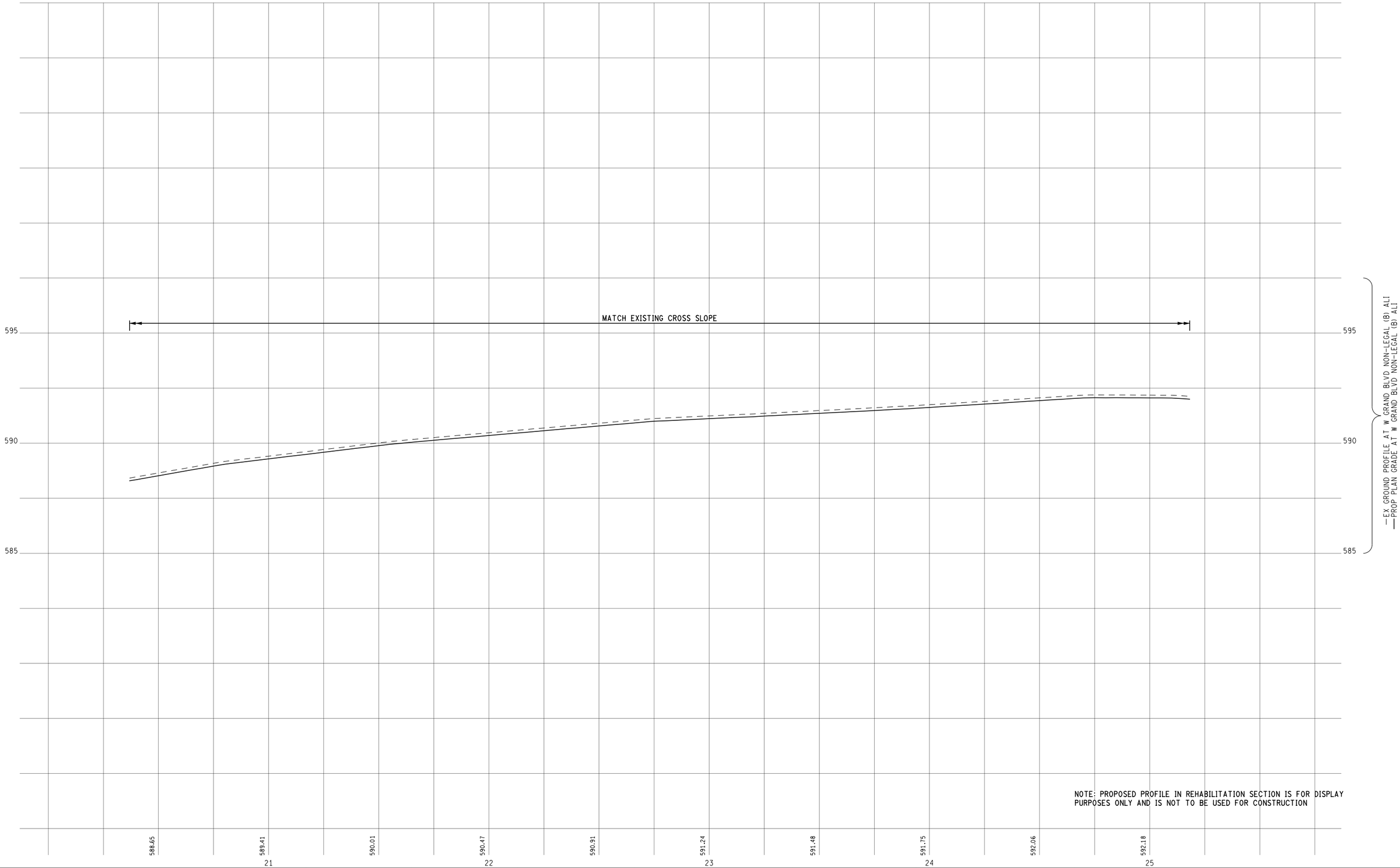
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

PROFILE SHEET
RIVERSIDE PARK
NB W GRAND BLVD STA 20+00 TO 25+00

DRAWING: RIV PROF 014

SHEET: 51



NOTE: PROPOSED PROFILE IN REHABILITATION SECTION IS FOR DISPLAY PURPOSES ONLY AND IS NOT TO BE USED FOR CONSTRUCTION

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

City of Detroit

VERT. (FT) 0 4
HORZ. (FT) 0 40

FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

PROFILE SHEET
RIVERSIDE PARK
SB W GRAND BLVD STA 20+36.88 TO 25+18.21

DRAWING: RIV PROF 015

SHEET: 52

APPROX FACE OF CURB
16' OFFSET LT W GRAND BLVD NON-LEGAL (B) ALI

595
590
585

(26) 121
+57.82
48" CB-5000M5

(26) EX110015
+99.58 16.02' LT
EX CB-5000M5

*PROP INV ELEV
12" N
12" S
12" E

*EX INV ELEV
PIPE SIZE UNKNOWN S
PIPE SIZE UNKNOWN E

— EX GROUND PROFILE AT W GRAND BLVD APPROX LT FACE OF CURB
— PROP PLAN GRADE AT W GRAND BLVD APPROX LT FACE OF CURB

+58.82
PROPOSED BUMPOUTS AND MEDIAN CROSSOVER
+96.48

(26) 119
+57.82
24" CB-5000M4
21+58.82
EL 589.53

(26) EX110002
22+96.48
EL 590.64
+99.58 27.02' RT
EX CB

+76.79
PROPOSED BUMPOUTS AND MEDIAN CROSSOVER
24+76.79
EL 591.54

*PROP INV ELEV
12" W

*EX INV ELEV
PIPE SIZE UNKNOWN W

APPROX FACE OF CURB
27.25' OFFSET RT W GRAND BLVD NON-LEGAL (B) ALI

NOTES:

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21 22 23 24 25

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

City of Detroit

VERT. (FT) 0 4
HORZ. (FT) 0 40

FILE:

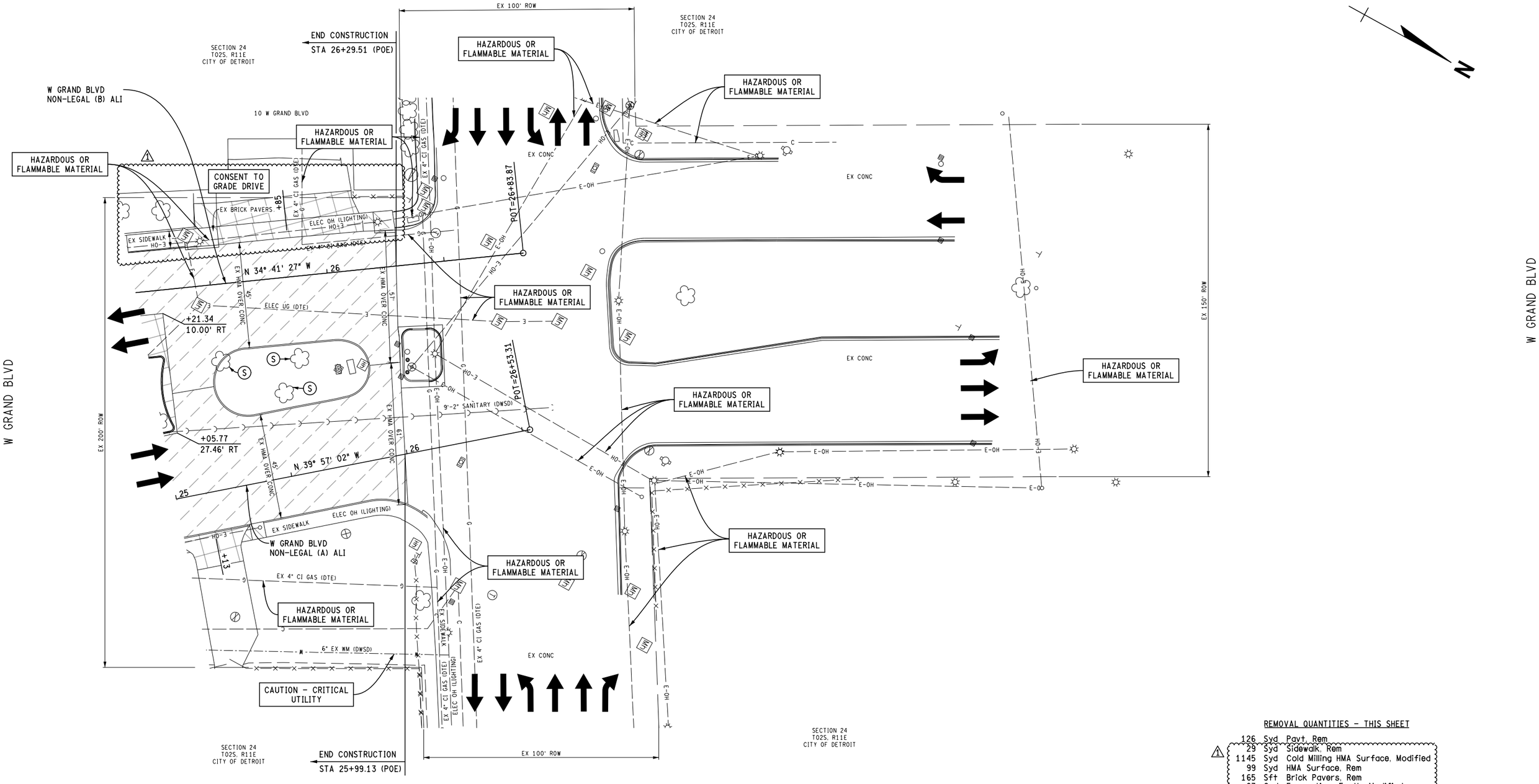
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

PROFILE SHEET
RIVERSIDE PARK
SB W GRAND BLVD STA 20+36.88 TO 25+18.21

DRAWING: RIV PROF 016

SHEET: 53



REMOVAL QUANTITIES - THIS SHEET

	126	Syd	Pavt, Rem
1	29	Syd	Sidewalk, Rem
1	1145	Syd	Cold Milling HMA Surface, Modified
	99	Syd	HMA Surface, Rem
	165	Sft	Brick Pavers, Rem
	93	Cyd	Excavation, Earth, Modified

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION
1	06/04/21		DRIVEWAY GRADE UPDATES				

wsp | Detroit | 0 HORZ. (FT) 40

DATE: 05/24/21

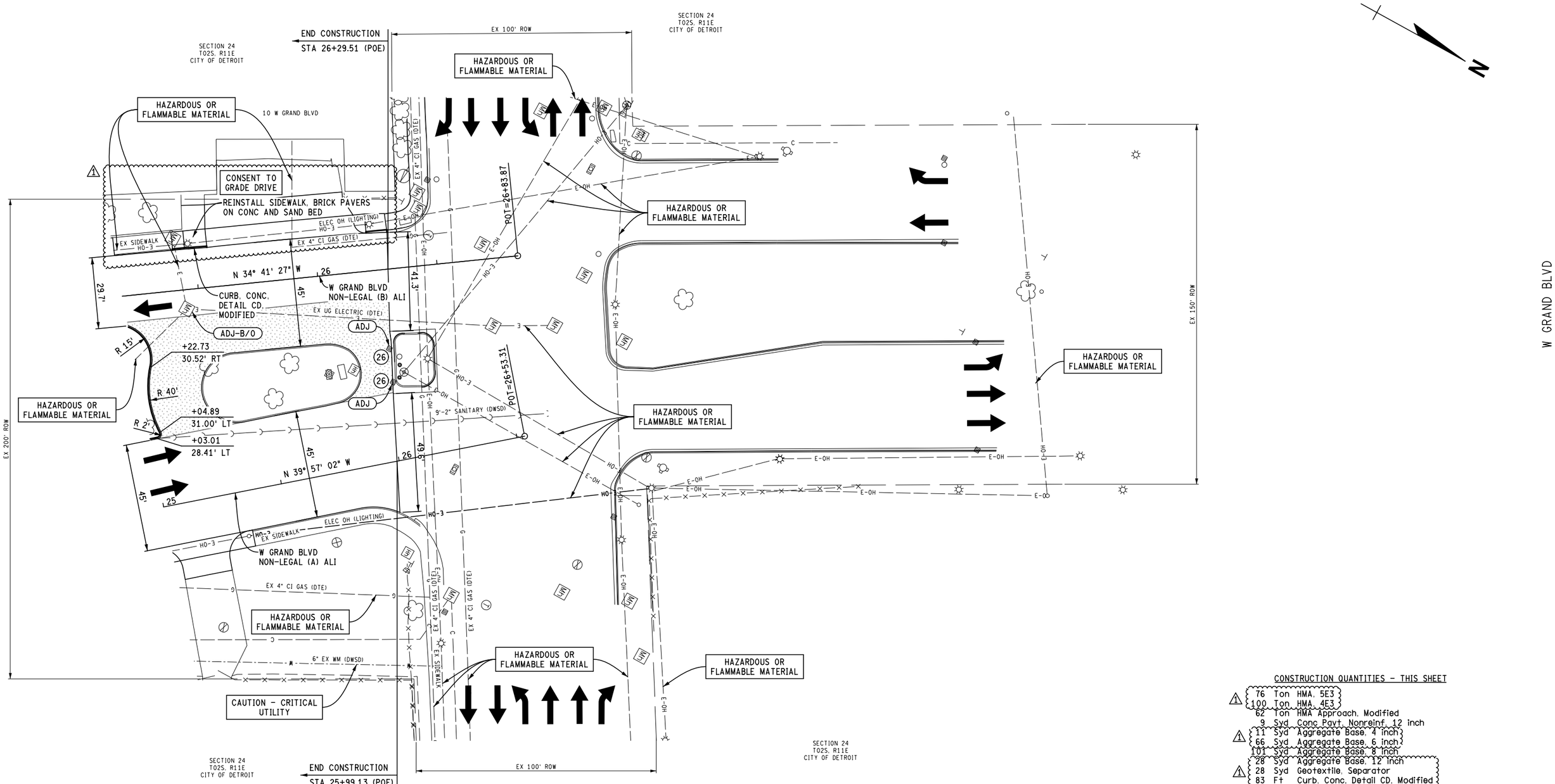
FILE:

JN: PW-7031
RIVERSIDE PARK

REMOVAL SHEET
RIVERSIDE PARK
NB W GRAND BLVD STA 25+00 TO POE

DRAWING: RIV REM 005

SHEET: 54



NOTES:

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CONSTRUCTION QUANTITIES - THIS SHEET

1	76	Ton	HMA, 5E3
1	100	Ton	HMA, 4E3
	62	Ton	HMA Approach, Modified
	9	Syd	Conc Pavt, Nonreinf, 12 inch
1	11	Syd	Aggregate Base, 4 inch
	66	Syd	Aggregate Base, 6 inch
	101	Syd	Aggregate Base, 8 inch
	28	Syd	Aggregate Base, 12 inch
1	28	Syd	Geotextile, Separator
	83	Ft	Curb, Conc, Detail CD, Modified
	96	Sft	Sidewalk, Conc, 4 inch, Modified
	99	Sft	Sidewalk, Conc, 8 inch, Modified
	20	Cyd	Embankment, CIP
	109	Syd	Slope Restoration, Type A
1	90	Syd	Driveway, Nonreinf Conc, 8 inch, Modified
	165	Sft	Reinstall Sidewalk, Brick Pavers on Conc and Sand Bed
	2	Ea	Erosion Control, Inlet Protection, Fabric Drop
	2	Ea	Dr Structure Cover, Adj, Case 1, Modified
	70	Ea	Lane Tie, Epoxy Anchored

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION
1	06/04/21		DRIVEWAY GRADE UPDATES				

wsp

Detroit

0 HORZ. (FT) 40

DATE: 05/24/21

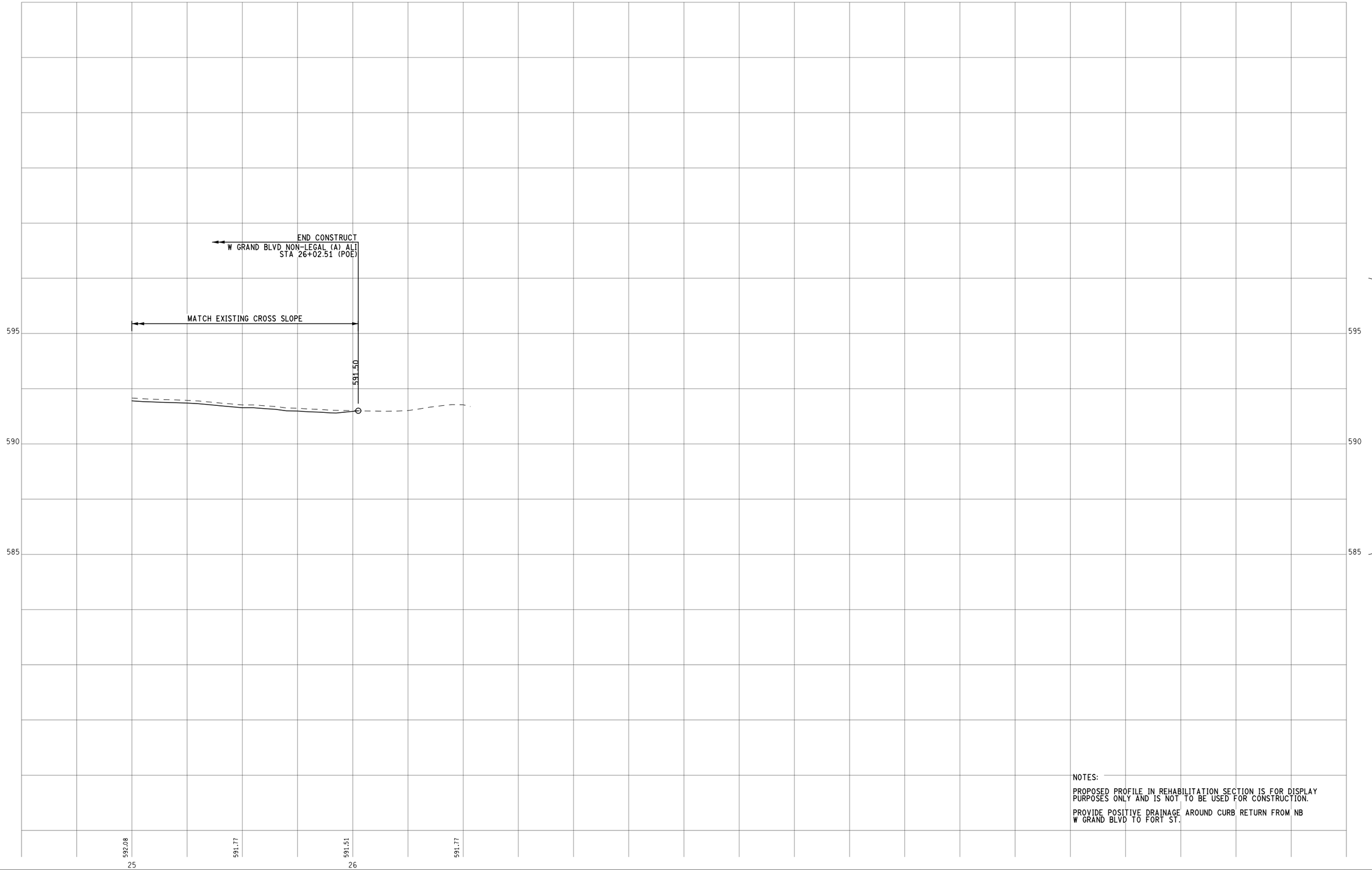
FILE:

JN: PW-7031
RIVERSIDE PARK

CONSTRUCTION SHEET
RIVERSIDE PARK
NB W GRAND BLVD STA 25+00 TO POE

DRAWING: RIV CON 005

SHEET: 55



NOTES:

PROPOSED PROFILE IN REHABILITATION SECTION IS FOR DISPLAY PURPOSES ONLY AND IS NOT TO BE USED FOR CONSTRUCTION.

PROVIDE POSITIVE DRAINAGE AROUND CURB RETURN FROM NB W GRAND BLVD TO FORT ST.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

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Detroit

VERT. (FT) 0 4
HORZ. (FT) 0 40

FILE:

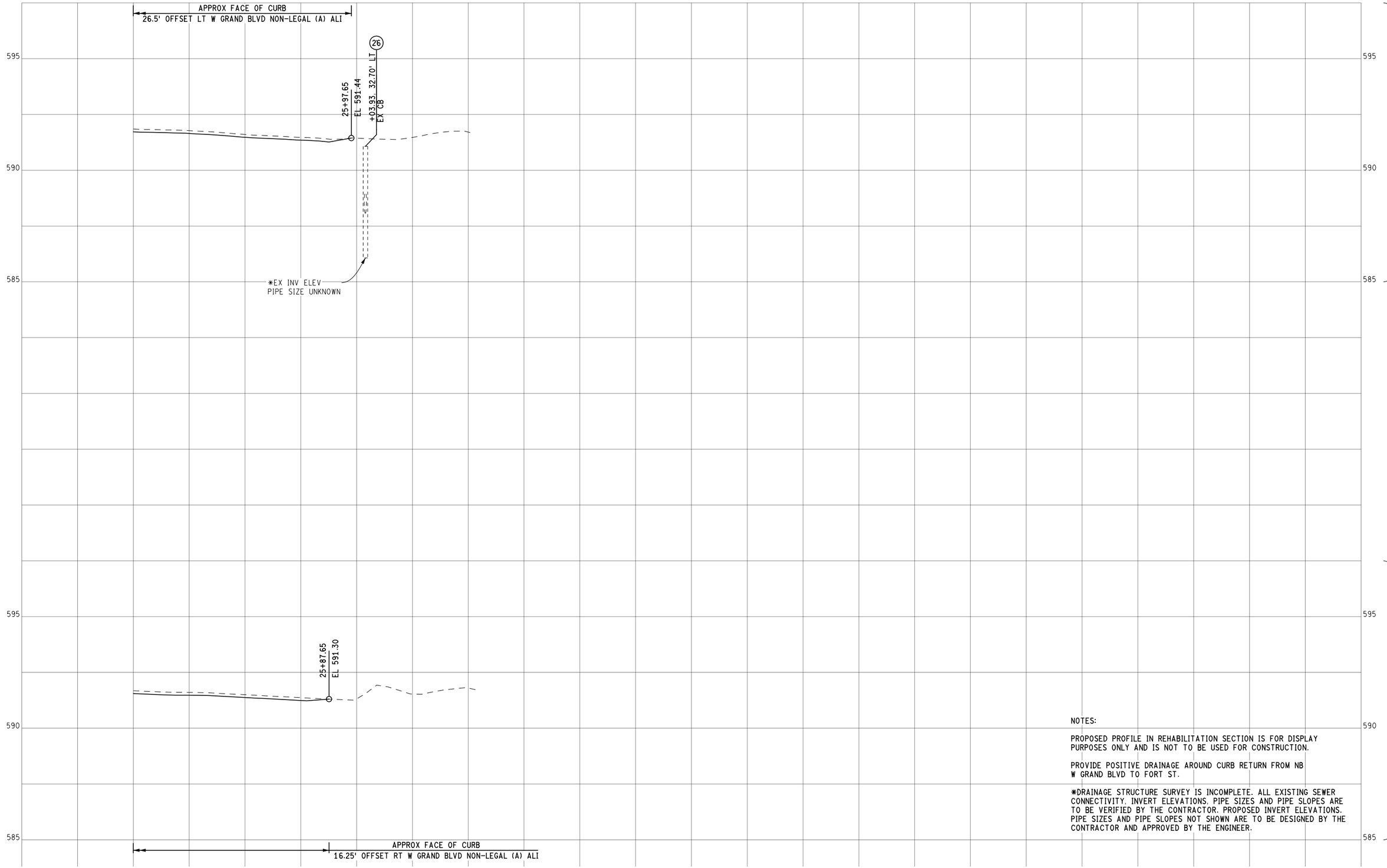
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

PROFILE SHEET
RIVERSIDE PARK
NB W GRAND BLVD STA 25+00 TO POE

DRAWING: RIV PROF 017

SHEET: 56



NOTES:

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PROVIDE POSITIVE DRAINAGE AROUND CURB RETURN FROM NB W GRAND BLVD TO FORT ST.

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FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

City of Detroit

VERT. (FT) 0 — 4
HORZ. (FT) 0 — 40

FILE:

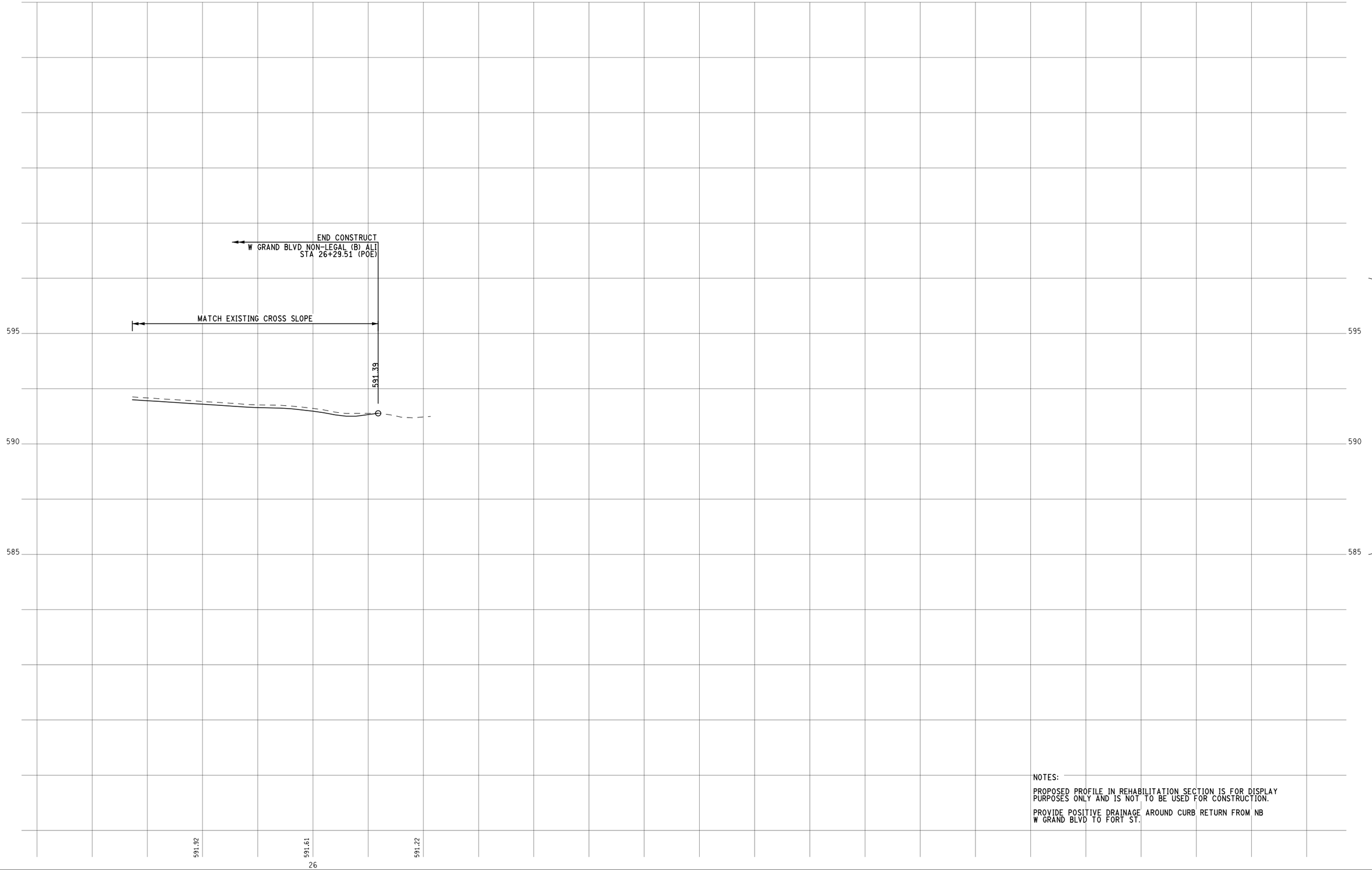
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

PROFILE SHEET
RIVERSIDE PARK
NB W GRAND BLVD STA 25+00 TO POE

DRAWING: RIV PROF 018

SHEET: 57



NOTES:

PROPOSED PROFILE IN REHABILITATION SECTION IS FOR DISPLAY PURPOSES ONLY AND IS NOT TO BE USED FOR CONSTRUCTION.

PROVIDE POSITIVE DRAINAGE AROUND CURB RETURN FROM NB W GRAND BLVD TO FORT ST.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

Detroit

0 VERT. (FT) 4
0 HORZ. (FT) 40

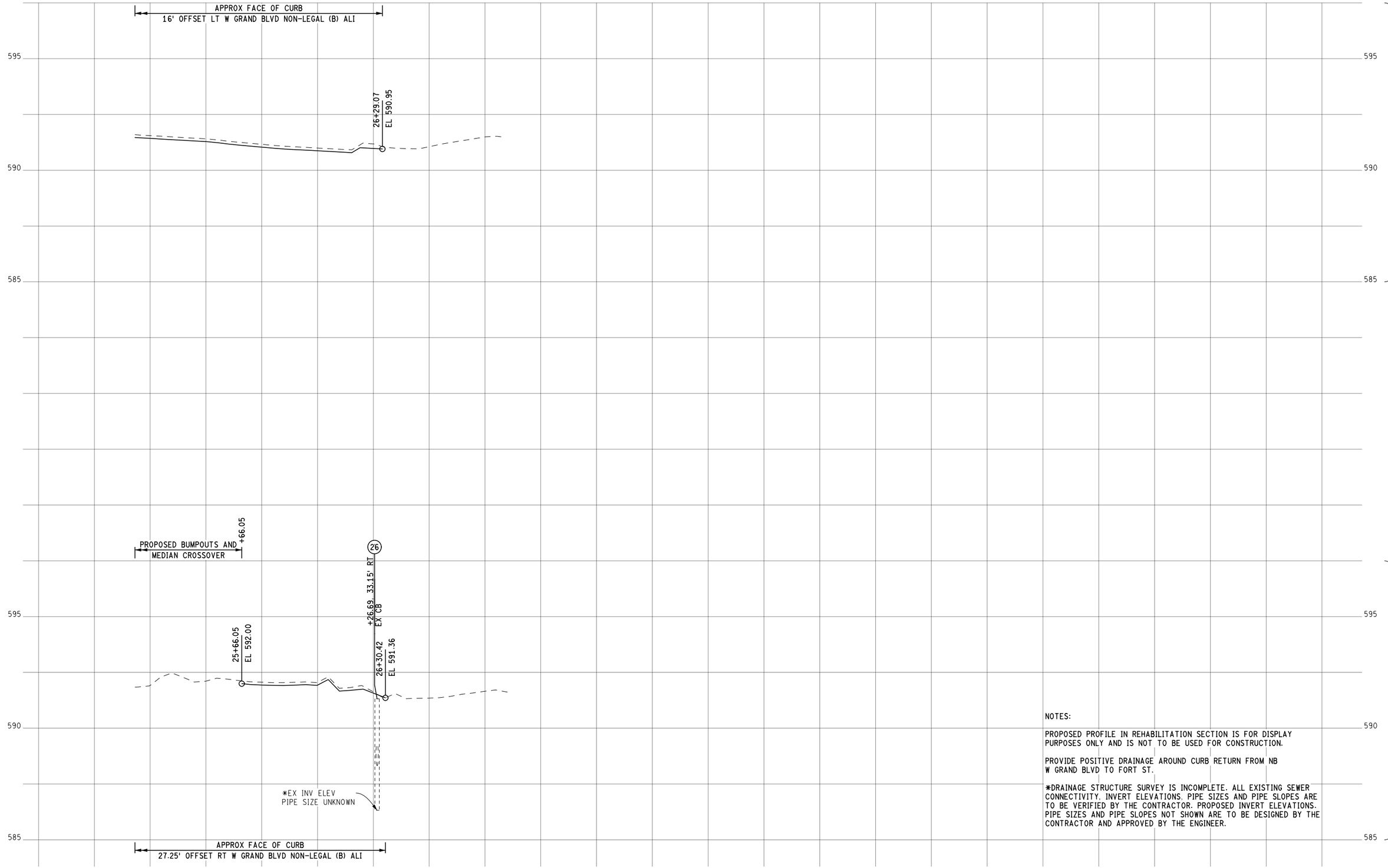
FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

PROFILE SHEET
RIVERSIDE PARK
SB W GRAND BLVD STA 25+18.21 TO POE

DRAWING	SHEET
RIV PROF 019	58



NOTES:

PROPOSED PROFILE IN REHABILITATION SECTION IS FOR DISPLAY PURPOSES ONLY AND IS NOT TO BE USED FOR CONSTRUCTION.

PROVIDE POSITIVE DRAINAGE AROUND CURB RETURN FROM NB W GRAND BLVD TO FORT ST.

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FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)										
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION	wsp	Detroit	0 VERT. (FT) 4 / 0 HORZ. (FT) 40

FILE:	DATE: 05/24/21	JN: PW-7031 RIVERSIDE PARK	PROFILE SHEET	DRAWING	SHEET
			RIVERSIDE PARK	RIV PROF 020	59
			SB W GRAND BLVD STA 25+18.21 TO POE		

W GRAND BLVD

W JEFFERSON AVE

N

W10-1

R15-1 R15-2P

R1-1

LOOK R15-8

7' CONCRETE SIDEWALK

89'

4' GRASS MEDIAN

6' BICYCLE LANE

9' GRASS MEDIAN

RAILROAD GRADE CROSSING PAVEMENT MARKING (SEE PAVE-965 SERIES) (TYP)

RAILROAD GRADE CROSSING ON SHARED USE PATH PAVEMENT MARKING (SEE PAVE-965 SERIES) (TYP)

W10-4L

31'

28' CROSSING GATE TO BE INSTALLED BY CSX (TYP)

DO NOT STOP ON TRACKS R8-8

CAUTION RAILROAD TRACKS NO TURN SP-1

CROSSING PANELS TO EXTEND MIN. 2'-0" BEYOND CONCRETE SIDEWALKS AND ROADWAYS (TYP) TO BE INSTALLED BY CSX

RUNNING RAILS (TYP) TO BE INSTALLED BY CSX

TRACKWORK TO BE INSTALLED BY CSX

OBSTRUCTION FREE ZONE

GRASS REINFORCEMENT

24" WHITE STOP BAR (TYP)

ADA DETECTABLE WARNING (TYP)

6" DIAMETER UNDERDRAIN TO BE INSTALLED BY CSX

54'-0" CROSSING

2.1'

2.25'

10' 15' 12' 8' 20' 41' 50' 50'

11'

15 16 17

E-OH

SPECIAL LEGEND THIS SHEET

OBSTRUCTION FREE ZONE - NO ROADWAY FEATURES ABOVE TOP OF RAIL

NOTES:

FOR SIGNING AND PAVEMENT MARKING QUANTITIES SEE SIGNING AND PAVEMENT MARKING SHEETS.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

CITY OF Detroit

0 HORZ. (FT) 20

FILE:

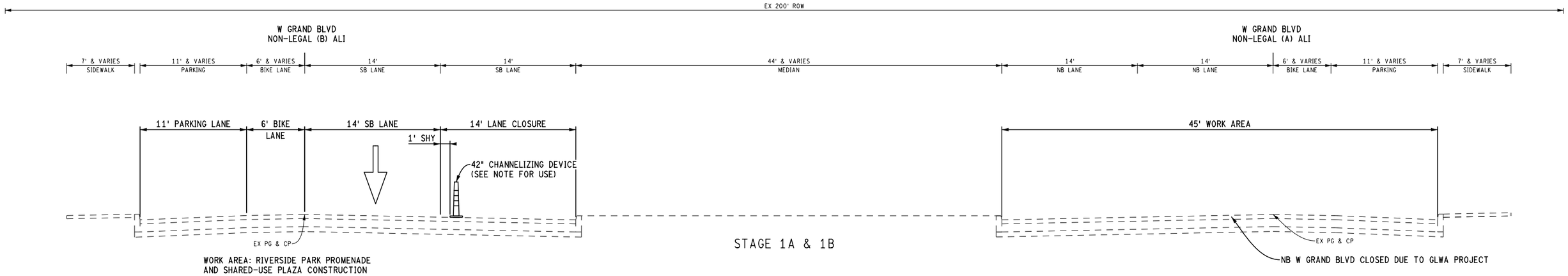
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

CSX CROSSING DETAIL
RIVERSIDE PARK

DRAWING: RIV RR 001

SHEET: 60



NOTE:
USE OF 42" CHANNELIZING DEVICES IS PERMITTED ADJACENT TO THE WORK ZONE IN THE TANGENT SECTIONS ONLY. USE PLASTIC DRUMS IN ALL SHIFTS, TAPERS AND IN THE LEAD-IN TRAFFIC CONTROL. THIS APPLIES TO ALL STAGES OF CONSTRUCTION.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

Detroit

0 HORZ. (FT) 10

FILE:

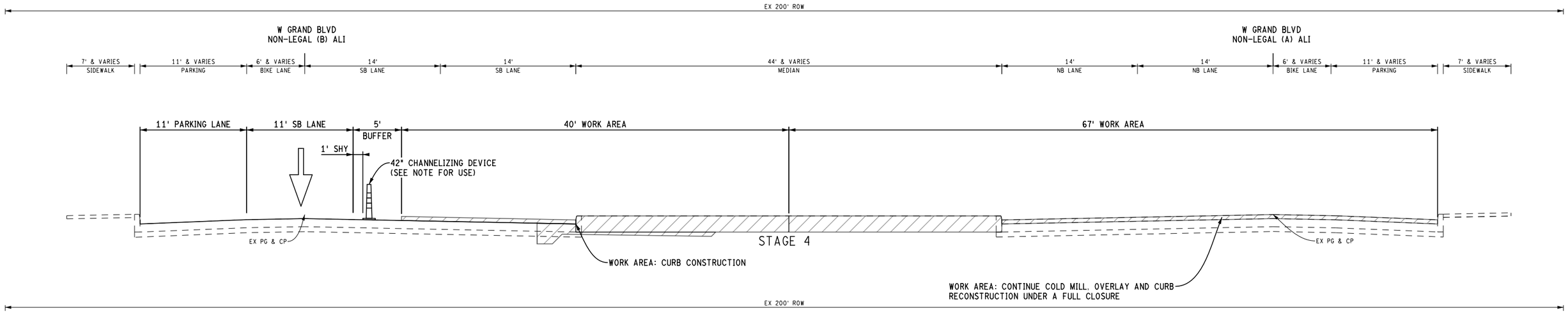
DATE: 05/24/21

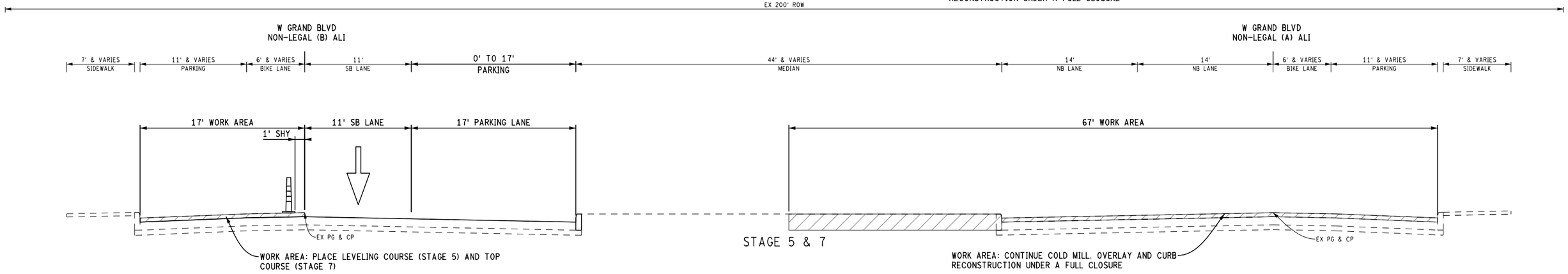
JN: PW-7031
RIVERSIDE PARK

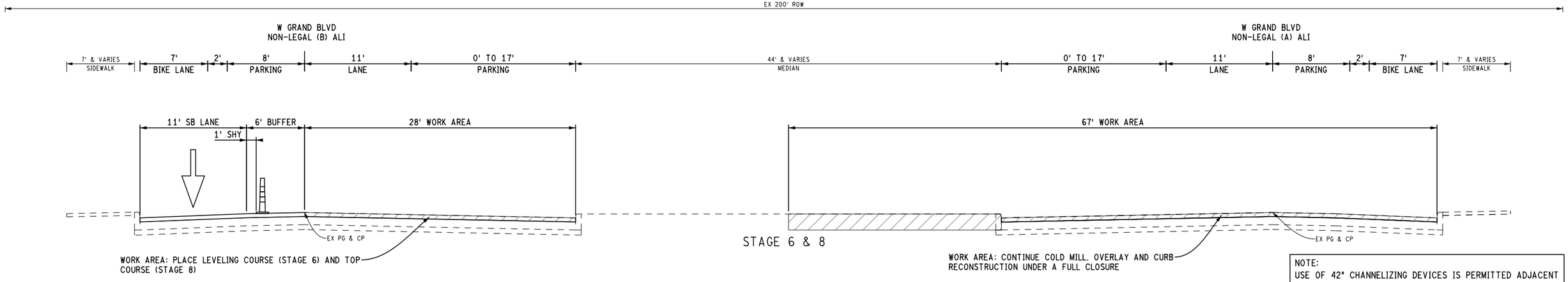
MAINTAINING TRAFFIC TYPICAL SECTIONS
W GRAND BLVD

DRAWING: RIV MTTYP 001

SHEET: 61







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FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

Detroit

0 HORZ. (FT)

FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

MAINTAINING TRAFFIC TYPICAL SECTIONS
W GRAND BLVD

DRAWING	SHEET
RIV MTTYP 002	62

W JEFFERSON AVE

CSX RR

M-85 (FORT ST)

W GRAND BLVD

VINEWOOD ST

DETOUR 3 IN PLACE DURING THIS STAGE

SEE DETAIL 1 ON MOT SPECIAL DETAILS SHEET FOR CLOSURE DETAIL

PLACE (1) TYPE III BARRICADE TO CLOSE LANE

PAVT MRKG, WET REFLECTIVE, TYPE NR, PAINT, 4 INCH, YELLOW, TEMP (SOLID LANE LINE)

SIGN CLOSEST TO WORK ZONE

SIGN FURTHEST FROM WORK ZONE

LEFT LANE CLOSED AHEAD
W20-5L

INJURE / KILL A WORKER $ 7500 + 15 YEARS
R5-18b

ROAD WORK AHEAD
W20-1

300'

300'

ROAD WORK AHEAD
W20-1

W GRAND BLVD
W20-12P

SEE DETAIL 1 ON MOT SPECIAL DETAILS SHEET FOR CLOSURE DETAIL

210' TAPER

300'

300'

300'

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB

ROAD CLOSED
R11-2

W1-6R

ROAD CLOSED
R11-2

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB

PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, YELLOW, TEMP (SOLID LANE LINE)

DETOUR 2 IN PLACE DURING THIS STAGE

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB

LIGHTED ARROW

SEE DETAIL 3 ON MOT SPECIAL DETAILS SHEET FOR BIKE LANE CLOSURE

NB W GRAND BLVD IS CLOSED FOR GLWA PROJECT

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB

ROAD CLOSED
R11-2

WORK ZONE BEGINS
R5-18c

ROAD CLOSED
R11-2

PEDESTRIAN TYPE II BARRICADE, TEMP

SIDEWALK CLOSED
R9-9

W4-2L

ROAD WORK AHEAD
W20-1

W GRAND BLVD
W20-12P

JEFFERSON AVE CLOSED AT W GRAND BLVD FOR GLWA PROJECT

WORK AREA: RIVERSIDE PARK PROMENADE AND SHARED-USED PLAZA CONSTRUCTION

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB

COORDINATE CLOSURE WITH GLWA PROJECT. SEE DETAIL 2 ON MOT SPECIAL DETAILS SHEET FOR JEFFERSON AVE AND 24TH ST CLOSURE.

DETOUR 4 IN PLACE DURING THIS STAGE

NOTES:

SPACE ALL PLASTIC DRUMS AS SHOWN BELOW OR AS DIRECTED BY THE ENGINEER:
60 (W GRAND BLVD), 50 (JEFFERSON AVE) FEET IN TANGETS
30 (W GRAND BLVD), 25 (JEFFERSON AVE) FEET IN SHIFTS AND TAPERS
10 FEET WHERE TIGHTER TRAFFIC CONTROL IS REQUIRED

42 INCH CHANNELIZING DEVICES ARE ONLY PERMITTED FOR USE ON TANGENT SECTIONS ADJACENT TO THE WORK ZONE, USE 30 FOOT SPACING.

COORDINATE TEMPORARY TRAFFIC CONTROL DEVICES WITH GLWA PROJECT SO THERE ARE NO DUPLICATE CLOSURES.

CSX RR

W JEFFERSON AVE

M-85 (FORT ST)

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

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Detroit

0 HORZ. (FT) 100

FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

MAINTAINING TRAFFIC STAGE 1A
RIVERSIDE PARK

DRAWING: RIV MTSTG1A 001

SHEET: 63

W JEFFERSON AVE

CSX RR

M-85 (FORT ST)

SIGN CLOSEST TO WORK ZONE

SIGN FURTHEST FROM WORK ZONE

LEFT LANE CLOSED AHEAD
W20-5L*

INJURE / KILL A WORKER $ 7500 + 15 YEARS
R5-18b*

ROAD WORK AHEAD
W20-1*

300'

300'

ROAD WORK AHEAD
W20-1*

W GRAND BLVD
W20-12P*

N

DETOUR 3 IN PLACE FROM STAGE 1A*

SEE DETAIL 5 ON MOT SPECIAL DETAILS SHEET FOR CLOSURE DETAIL

WORK AREA: RECONSTRUCTION OF W JEFFERSON AVE

SEE DETAIL 5 ON MOT SPECIAL DETAILS SHEET FOR CLOSURE DETAIL

210' TAPER

300'

300'

300'

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB

PEDESTRIAN TYPE II BARRICADE, TEMP

PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, WHITE, TEMP (SOLID LANE LINE)

PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, YELLOW, TEMP* (SOLID LANE LINE)

W1-2L

DETOUR 1 IN PLACE DURING THIS STAGE

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB*

SIDEWALK CLOSED AHEAD
W20-8

W1-2L

ROAD CLOSED
R11-2

SIDEWALK CLOSED
R9-9

LIGHTED ARROW*

W GRAND BLVD

VINEWOOD ST

W GRAND BLVD

SEE DETAIL 3 ON MOT SPECIAL DETAILS SHEET FOR BIKE LANE CLOSURE*

ROAD CLOSED
R11-2

NB W GRAND BLVD IS CLOSED DUE TO GLWA PROJECT

ROAD CLOSED
R11-2*

WORK ZONE BEGINS
R5-18c*

ROAD CLOSED
R11-2*

PEDESTRIAN TYPE II BARRICADE, TEMP*

SIDEWALK CLOSED
R9-9*

W4-2L*

ROAD WORK AHEAD
W20-1*

W GRAND BLVD
W20-12P*

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB

PAVT MRKG, WET REFLECTIVE, TYPE NR, PAINT, 4 INCH, WHITE, TEMP (SOLID LANE LINE)

ROAD CLOSED
R11-2

W1-4R

W1-6R

PAVT MRKG, WET REFLECTIVE, TYPE NR, PAINT, 4 INCH, YELLOW, TEMP (SOLID LANE LINE)

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB

SEE DETAIL 2 ON MOT SPECIAL DETAILS SHEET FOR JEFFERSON AVE AND 24TH ST CLOSURE*

DETOUR 4 IN PLACE FROM STAGE 1A*

WORK AREA: CONTINUE RIVERSIDE PARK PROMENADE AND SHARED-USE PLAZA CONSTRUCTION

* TEMPORARY TRAFFIC CONTROL IS IN PLACE FROM A PREVIOUS STAGE

NOTES:

SPACE ALL PLASTIC DRUMS AS SHOWN BELOW OR AS DIRECTED BY THE ENGINEER:
60 (W GRAND BLVD), 50 (JEFFERSON AVE) FEET IN TANGETS
30 (W GRAND BLVD), 25 (JEFFERSON AVE) FEET IN SHIFTS AND TAPERS
10 FEET WHERE TIGHTER TRAFFIC CONTROL IS REQUIRED

42 INCH CHANNELIZING DEVICES ARE ONLY PERMITTED FOR USE ON TANGENT SECTIONS ADJACENT TO THE WORK ZONE, USE 30 FOOT SPACING.

COORDINATE TEMPORARY TRAFFIC CONTROL DEVICES WITH GLWA PROJECT SO THERE ARE NO DUPLICATE CLOSURES.

CSX RR

W JEFFERSON AVE

M-85 (FORT ST)

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
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Detroit

0 HORZ. (FT) 100

FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

MAINTAINING TRAFFIC STAGE 1B
RIVERSIDE PARK

DRAWING: RIV MTSTG1B 001

SHEET: 64

W JEFFERSON AVE

CSX RR

M-85 (FORT ST)

W GRAND BLVD

VINEWOOD ST

DETOUR 3 IN PLACE FROM STAGE 1A*

SEE DETAIL 1 ON MOT SPECIAL DETAILS SHEET FOR CLOSURE DETAIL

ROAD CLOSED R11-2*

W1-2L*

TYPE III BARRICADES

PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, WHITE, TEMP* (SOLID LANE LINE)

PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, YELLOW, TEMP* (SOLID LANE LINE)

WORK AREA: BEGIN RECONSTRUCTION

DETOUR 1 IN PLACE FROM STAGE 1B*

W1-2L*

WORK AREA: COLD MILL AND CURB RECONSTRUCTION

PAVT MRKG, WET REFLECTIVE, TYPE NR, PAINT, 4 INCH, WHITE, TEMP (SOLID LANE LINE)

SEE DETAIL 4 ON MOT SPECIAL DETAILS SHEET FOR MID-BLOCK PEDESTRIAN CROSSING

ON-STREET PARKING ENDS

SPECIAL SIGN 4

SEE DETAIL 4 ON MOT SPECIAL DETAILS SHEET FOR MID-BLOCK PEDESTRIAN CROSSING

ROAD CLOSED R11-2*

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB*

WORK AREA: BEGIN COLD MILL, RESURFACING AND RECONSTRUCTION OF MEDIAN CURB UNDER A FULL CLOSURE

W1-4R*

W1-6R*

PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, WHITE, TEMP* (SOLID LANE LINE)

PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, YELLOW, TEMP* (SOLID LANE LINE)

SEE DETAIL 2 ON MOT SPECIAL DETAILS SHEET FOR JEFFERSON AVE AND 24TH ST CLOSURE*

DETOUR 4 IN PLACE FROM STAGE 1A*

ROAD WORK AHEAD W20-1*

W GRAND BLVD W20-12P*

SEE DETAIL 1 ON MOT SPECIAL DETAILS SHEET FOR CLOSURE DETAIL

TYPE III BARRICADE

SIDEWALK CLOSED R9-9

PEDESTRIAN TYPE II BARRICADE, TEMP

ON-STREET PARKING STARTS

SPECIAL SIGN 3

ROAD CLOSED FOR GLWA PROJECT

ROAD CLOSED R11-2*

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB*

ROAD CLOSED R11-2*

PEDESTRIAN TYPE II BARRICADE, TEMP*

SIDEWALK CLOSED R9-9*

SIGN CLOSEST TO WORK ZONE

SIGN FURTHEST FROM WORK ZONE

INJURE / KILL A WORKER $ 7500 + 15 YEARS R5-18b

ROAD WORK AHEAD W20-1

300'

SEE DETAIL 3 ON MOT SPECIAL DETAILS SHEET FOR BIKE LANE CLOSURE*

ROAD CLOSED R11-2*

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB*

ROAD WORK AHEAD W20-1*

W GRAND BLVD W20-12P*

* TEMPORARY TRAFFIC CONTROL IS IN PLACE FROM A PREVIOUS STAGE

NOTES:

SPACE ALL PLASTIC DRUMS AS SHOWN BELOW OR AS DIRECTED BY THE ENGINEER:
- 60 (W GRAND BLVD), 50 (JEFFERSON AVE) FEET IN TANGETS
- 30 (W GRAND BLVD), 25 (JEFFERSON AVE) FEET IN SHIFTS AND TAPERS
- 10 FEET WHERE TIGHTER TRAFFIC CONTROL IS REQUIRED

42 INCH CHANNELIZING DEVICES ARE ONLY PERMITTED FOR USE ON TANGENT SECTIONS ADJACENT TO THE WORK ZONE, USE 30 FOOT SPACING.

COORDINATE TEMPORARY TRAFFIC CONTROL DEVICES WITH GLWA PROJECT SO THERE ARE NO DUPLICATE CLOSURES.

CSX RR

W JEFFERSON AVE

M-85 (FORT ST)

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Detroit

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FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

MAINTAINING TRAFFIC STAGE 2
RIVERSIDE PARK

DRAWING	SHEET
RIV MTSTG2 001	65

W JEFFERSON AVE

CSX RR

M-85 (FORT ST)

W GRAND BLVD

VINEWOOD ST

DETOUR 3 IN PLACE FROM STAGE 1A*

SEE DETAIL 1 ON MOT SPECIAL DETAILS SHEET FOR CLOSURE DETAIL*

ROAD CLOSED R11-2*

W1-2L*

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB

PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, WHITE, TEMP* (SOLID LANE LINE)

PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, YELLOW, TEMP* (SOLID LANE LINE)

SIDEWALK CLOSED R9-9

PEDESTRIAN TYPE II BARRICADE, TEMP

DETOUR 1 IN PLACE FROM STAGE 1B*

W1-2L*

WORK AREA: COLD MILL

PAVT MRKG, WET REFLECTIVE, TYPE NR, PAINT, 4 INCH, YELLOW, TEMP (SOLID LANE LINE)

SIDEWALK CLOSED AHEAD W20-8

ROAD WORK AHEAD W20-1*

W GRAND BLVD W20-12P*

SEE DETAIL 1 ON MOT SPECIAL DETAILS SHEET FOR CLOSURE DETAIL*

SIGN CLOSEST TO WORK ZONE

SIGN FURTHEST FROM WORK ZONE

INJURE / KILL A WORKER $ 7500 + 15 YEARS R5-18b*

300'

ROAD WORK AHEAD W20-1*

SEE DETAIL 3 ON MOT SPECIAL DETAILS SHEET FOR BIKE LANE CLOSURE*

TYPE III BARRICADES

ROAD CLOSED R11-2

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB*

WORK AREA: CONTINUE RECONSTRUCTION

ROAD CLOSED R11-2*

WORK AREA: CONTINUE COLD MILL, RESURFACING AND RECONSTRUCTION OF MEDIAN CURB UNDER A FULL CLOSURE

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB*

W1-4R*

W1-6R*

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB*

ROAD CLOSED R11-2*

ROAD CLOSED FOR GLWA PROJECT

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB*

ROAD CLOSED R11-2*

SIDEWALK CLOSED R9-9*

PEDESTRIAN TYPE II BARRICADE, TEMP*

ROAD WORK AHEAD W20-1*

W GRAND BLVD W20-12P*

PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, WHITE, TEMP* (SOLID LANE LINE)

PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, YELLOW, TEMP* (SOLID LANE LINE)

SEE DETAIL 2 ON MOT SPECIAL DETAILS SHEET FOR JEFFERSON AVE AND 24TH ST CLOSURE*

DETOUR 4 IN PLACE FROM STAGE 1A*

* TEMPORARY TRAFFIC CONTROL IS IN PLACE FROM A PREVIOUS STAGE

NOTES:

SPACE ALL PLASTIC DRUMS AS SHOWN BELOW OR AS DIRECTED BY THE ENGINEER:
60 (W GRAND BLVD), 50 (JEFFERSON AVE) FEET IN TANGETS
30 (W GRAND BLVD), 25 (JEFFERSON AVE) FEET IN SHIFTS AND TAPERS
10 FEET WHERE TIGHTER TRAFFIC CONTROL IS REQUIRED

42 INCH CHANNELIZING DEVICES ARE ONLY PERMITTED FOR USE ON TANGENT SECTIONS ADJACENT TO THE WORK ZONE, USE 30 FOOT SPACING.

COORDINATE TEMPORARY TRAFFIC CONTROL DEVICES WITH GLWA PROJECT SO THERE ARE NO DUPLICATE CLOSURES.

CSX RR

W JEFFERSON AVE

M-85 (FORT ST)

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
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City of Detroit

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FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

MAINTAINING TRAFFIC STAGE 3
RIVERSIDE PARK

DRAWING: RIV MTSTG3 001

SHEET: 66

W JEFFERSON AVE

CSX RR

M-85 (FORT ST)

W GRAND BLVD

VINEWOOD ST

DETOUR 3 IN PLACE FROM STAGE 1A*

SEE DETAIL 1 ON MOT SPECIAL DETAILS SHEET FOR CLOSURE DETAIL*

W1-2L

ROAD CLOSED
R11-2

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB

PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, WHITE, TEMP (SOLID LANE LINE)

WORK AREA: BEGIN RECONSTRUCTION

PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, YELLOW, TEMP (SOLID LANE LINE)

SIDEWALK CLOSED
R9-9*

DETOUR 1 IN PLACE FROM STAGE 1B*

PEDESTRIAN TYPE II BARRICADE, TEMP*

W1-1L

PAVT MRKG, WET REFLECTIVE, TYPE NR, PAINT, 4 INCH, WHITE, TEMP (SOLID LANE LINE)

PAVT MRKG, WET REFLECTIVE, TYPE NR, PAINT, 4 INCH, YELLOW, TEMP (SOLID LANE LINE)

WORK AREA: RECONSTRUCT MEDIAN CURB

TYPE III BARRICADE

W1-6R

SIDEWALK CLOSED AHEAD
W20-8*

ON-STREET PARKING STARTS
SPECIAL SIGN 3

ROAD WORK AHEAD
W20-1*
W GRAND BLVD
W20-12P*

SEE DETAIL 1 ON MOT SPECIAL DETAILS SHEET FOR CLOSURE DETAIL*

SIGN CLOSEST TO WORK ZONE

SIGN FURTHEST FROM WORK ZONE

INJURE / KILL A WORKER $ 7500 + 15 YEARS
R5-18b*

ROAD WORK AHEAD
W20-1*

300'

SEE DETAIL 3 ON MOT SPECIAL DETAILS SHEET FOR BIKE LANE CLOSURE*

ON-STREET PARKING ENDS
SPECIAL SIGN 4

ROAD CLOSED
R11-2

WORK AREA: CONTINUE COLD MILL, RESURFACING AND RECONSTRUCTION OF MEDIAN CURB UNDER A FULL CLOSURE

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB

TYPE III BARRICADE

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB*

ROAD CLOSED
R11-2*

ROAD CLOSED FOR GLWA PROJECT

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB*

ROAD CLOSED
R11-2*

SIDEWALK CLOSED
R9-9*

PEDESTRIAN TYPE II BARRICADE, TEMP*

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB*

ROAD CLOSED
R11-2*

ROAD WORK AHEAD
W20-1*
W GRAND BLVD
W20-12P*

PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, WHITE, TEMP (SOLID LANE LINE)

PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, YELLOW, TEMP (SOLID LANE LINE)

SEE DETAIL 2 ON MOT SPECIAL DETAILS SHEET FOR JEFFERSON AVE AND 24TH ST CLOSURE*

DETOUR 4 IN PLACE FROM STAGE 1A*

* TEMPORARY TRAFFIC CONTROL IS IN PLACE FROM A PREVIOUS STAGE

NOTES:

SPACE ALL PLASTIC DRUMS AS SHOWN BELOW OR AS DIRECTED BY THE ENGINEER:
60 (W GRAND BLVD), 50 (JEFFERSON AVE) FEET IN TANGETS
30 (W GRAND BLVD), 25 (JEFFERSON AVE) FEET IN SHIFTS AND TAPERS
10 FEET WHERE TIGHTER TRAFFIC CONTROL IS REQUIRED

42 INCH CHANNELIZING DEVICES ARE ONLY PERMITTED FOR USE ON TANGENT SECTIONS ADJACENT TO THE WORK ZONE, USE 30 FOOT SPACING.

COORDINATE TEMPORARY TRAFFIC CONTROL DEVICES WITH GLWA PROJECT SO THERE ARE NO DUPLICATE CLOSURES.

CSX RR

W JEFFERSON AVE

M-85 (FORT ST)

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

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Detroit

0 HORZ. (FT) 100

DATE: 05/24/21

FILE:

JN: PW-7031
RIVERSIDE PARK

MAINTAINING TRAFFIC STAGE 4
RIVERSIDE PARK

DRAWING: RIV MTSTG4 001

SHEET: 67

W JEFFERSON AVE

CSX RR

M-85 (FORT ST)

W GRAND BLVD

VINEWOOD ST

DETOUR 3 IN PLACE FROM STAGE 1A*

SEE DETAIL 1 ON MOT SPECIAL DETAILS SHEET FOR CLOSURE DETAIL*

ROAD WORK AHEAD
W20-1*
W GRAND BLVD
W20-12P*

SEE DETAIL 1 ON MOT SPECIAL DETAILS SHEET FOR CLOSURE DETAIL*

PAVT MRKG, WET REFLECTIVE, TYPE NR, PAINT, 4 INCH, WHITE, TEMP (SOLID LANE LINE) (STAGE 5) OR PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, WHITE, TEMP (SOLID LANE LINE) (STAGE 7)

SIGN CLOSEST TO WORK ZONE

SIGN FURTHEST FROM WORK ZONE

INJURE / KILL A WORKER $ 7500 + 15 YEARS
R5-18b*

ROAD WORK AHEAD
W20-1*
300'

SEE DETAIL 3 ON MOT SPECIAL DETAILS SHEET FOR BIKE LANE CLOSURE*

W1-2L*

ROAD CLOSED
R11-2*

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB*

PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, WHITE, TEMP* (SOLID LANE LINE)

SEE DETAIL 4 ON MOT SPECIAL DETAILS SHEET FOR MID-BLOCK PEDESTRIAN CROSSING

PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, WHITE, TEMP* (SOLID LANE LINE)

WORK AREA: CONTINUE RECONSTRUCTION IN BOTH STAGES 5 AND 7

W1-1L

DETOUR 1 IN PLACE FROM STAGE 1B*

PEDESTRIAN TYPE II BARRICADE, TEMP

TYPE III BARRICADE*

WORK AREA: HMA PAVING THROUGH LEVELING COURSE IN STAGE 5, HMA PAVING THROUGH TOP COURSE IN STAGE 7

SEE DETAIL 4 ON MOT SPECIAL DETAILS SHEET FOR MID-BLOCK PEDESTRIAN CROSSING

W1-6R*

SIDEWALK CLOSED
R9-9

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB*

ROAD CLOSED
R11-2*

SIDEWALK CLOSED
R9-9*

PEDESTRIAN TYPE II BARRICADE, TEMP*

ROAD CLOSED
R11-2*

ON-STREET PARKING ENDS
SPECIAL SIGN 4

WORK AREA: CONTINUE COLD MILL, RESURFACING AND RECONSTRUCTION OF MEDIAN CURB IN BOTH STAGES 5 AND 7 UNDER A FULL CLOSURE

ON-STREET PARKING STARTS
SPECIAL SIGN 3

ROAD CLOSED
R11-2*

ON-STREET PARKING ENDS
SPECIAL SIGN 4

ON-STREET PARKING STARTS
SPECIAL SIGN 3

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB*

ROAD CLOSED FOR GLWA PROJECT

TYPE III BARRICADE*

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB*

PAVT MRKG, WET REFLECTIVE, TYPE NR, PAINT, 4 INCH, YELLOW, TEMP (SOLID LANE LINE) (STAGE 5) OR PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, YELLOW, TEMP (SOLID LANE LINE) (STAGE 7)

PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, WHITE, TEMP* (SOLID LANE LINE)

PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, YELLOW, TEMP* (SOLID LANE LINE)

SEE DETAIL 2 ON MOT SPECIAL DETAILS SHEET FOR JEFFERSON AVE AND 24TH ST CLOSURE*

DETOUR 4 IN PLACE FROM STAGE 1A*

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB*

ROAD WORK AHEAD
W20-1*
W GRAND BLVD
W20-12P*

* TEMPORARY TRAFFIC CONTROL IS IN PLACE FROM A PREVIOUS STAGE

NOTES:

SPACE ALL PLASTIC DRUMS AS SHOWN BELOW OR AS DIRECTED BY THE ENGINEER:
60 (W GRAND BLVD), 50 (JEFFERSON AVE) FEET IN TANGETS
30 (W GRAND BLVD), 25 (JEFFERSON AVE) FEET IN SHIFTS AND TAPERS
10 FEET WHERE TIGHTER TRAFFIC CONTROL IS REQUIRED

42 INCH CHANNELIZING DEVICES ARE ONLY PERMITTED FOR USE ON TANGENT SECTIONS ADJACENT TO THE WORK ZONE, USE 30 FOOT SPACING.

COORDINATE TEMPORARY TRAFFIC CONTROL DEVICES WITH GLWA PROJECT SO THERE ARE NO DUPLICATE CLOSURES.

CSX RR

W JEFFERSON AVE

M-85 (FORT ST)

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FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

MAINTAINING TRAFFIC STAGE 5&7
RIVERSIDE PARK

DRAWING: RIV MTSTG5&7 001

SHEET: 68

W JEFFERSON AVE

CSX RR

M-85 (FORT ST)

W GRAND BLVD

VINEWOOD ST

DETOUR 3 IN PLACE FROM STAGE 1A*

SEE DETAIL 1 ON MOT SPECIAL DETAILS SHEET FOR CLOSURE DETAIL*

W1-2L*

ROAD CLOSED
R11-2*

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB*

PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, WHITE, TEMP (SOLID LANE LINE)

WORK AREA: CONTINUE RECONSTRUCTION IN BOTH STAGES 6 AND 8

PEDESTRIAN TYPE II BARRICADE, TEMP

SIDEWALK CLOSED
R9-9

ROAD CLOSED
R11-2*

WORK AREA: CONTINUE COLD MILL, RESURFACING AND RECONSTRUCTION OF MEDIAN CURB IN BOTH STAGES 6 AND 8 UNDER A FULL CLOSURE

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB*

TYPE III BARRICADE*

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB*

PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, WHITE, TEMP* (SOLID LANE LINE)

PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, YELLOW, TEMP* (SOLID LANE LINE)

SEE DETAIL 2 ON MOT SPECIAL DETAILS SHEET FOR JEFFERSON AVE AND 24TH ST CLOSURE*

DETOUR 4 IN PLACE FROM STAGE 1A*

W1-1L

DETOUR 1 IN PLACE FROM STAGE 1B*

WORK AREA: HMA PAVING THROUGH LEVELING COURSE IN STAGE 6, HMA PAVING THROUGH TOP COURSE IN STAGE 8

PAVT MRKG, WET REFLECTIVE, TYPE NR, PAINT, 4 INCH, YELLOW, TEMP (SOLID LANE LINE) (STAGE 6) OR PAVT MRKG, WET REFLECTIVE, TYPE R, TAPE, 4 INCH, YELLOW, TEMP (SOLID LANE LINE) (STAGE 8)

ROAD CLOSED
R11-2*

WORK AREA: NO WORK IN STAGE 6 DUE TO GLWA PROJECT, COLD MILL AND RESURFACE AND RECONSTRUCT MEDIAN CURB IN STAGE 8

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB*

PEDESTRIAN TYPE II BARRICADE, TEMP*

SIDEWALK CLOSED
R9-9*

TYPE III BARRICADES

W1-6R*

ROAD WORK AHEAD
W20-1*
W GRAND BLVD
W20-12P*

SEE DETAIL 1 ON MOT SPECIAL DETAILS SHEET FOR CLOSURE DETAIL*

SIGN CLOSEST TO WORK ZONE

SIGN FURTHEST FROM WORK ZONE

INJURE / KILL A WORKER $ 7500 + 15 YEARS
R5-18b*

ROAD WORK AHEAD
W20-1*

300'

SEE DETAIL 3 ON MOT SPECIAL DETAILS SHEET FOR BIKE LANE CLOSURE*

SIDEWALK CLOSED AHEAD
W20-8

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB*

ROAD CLOSED
R11-2*

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB IN STAGE 8

ROAD WORK AHEAD
W20-1*
W GRAND BLVD
W20-12P*

* TEMPORARY TRAFFIC CONTROL IS IN PLACE FROM A PREVIOUS STAGE

NOTES:

SPACE ALL PLASTIC DRUMS AS SHOWN BELOW OR AS DIRECTED BY THE ENGINEER:
60 (W GRAND BLVD), 50 (JEFFERSON AVE) FEET IN TANGETS
30 (W GRAND BLVD), 25 (JEFFERSON AVE) FEET IN SHIFTS AND TAPERS
10 FEET WHERE TIGHTER TRAFFIC CONTROL IS REQUIRED

42 INCH CHANNELIZING DEVICES ARE ONLY PERMITTED FOR USE ON TANGENT SECTIONS ADJACENT TO THE WORK ZONE, USE 30 FOOT SPACING.

COORDINATE TEMPORARY TRAFFIC CONTROL DEVICES WITH GLWA PROJECT SO THERE ARE NO DUPLICATE CLOSURES IN STAGE 6.

CSX RR

W JEFFERSON AVE

M-85 (FORT ST)

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
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Detroit

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JN: PW-7031
RIVERSIDE PARK

MAINTAINING TRAFFIC STAGE 6&8
RIVERSIDE PARK

DRAWING: RIV MTSTG6&8 001

SHEET: 69

W JEFFERSON AVE

CSX RR

M-85 (FORT ST)

VINEWOOD ST

W GRAND BLVD

DETOUR 3 IN PLACE DURING THIS STAGE

STAGE 10 WORK AREA: CSX RAILROAD TRACK RECONSTRUCTION

PEDESTRIAN TYPE II BARRICADE, TEMP

PLACE SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB

ROAD CLOSED R11-2

SIDEWALK CLOSED R9-9

SIGN CLOSEST TO WORK ZONE

SIGN FURTHEST FROM WORK ZONE

ROAD CLOSED AHEAD W20-3

INJURE / KILL A WORKER $ 7500 + 15 YEARS R5-18b

ROAD WORK AHEAD W20-1

300' 300'

W GRAND BLVD W20-12P

W1-1L

SIDEWALK CLOSED AHEAD W20-8

SEE DETAIL 3 ON MOT SPECIAL DETAILS SHEET FOR BIKE LANE CLOSURE

TYPE III BARRICADE

TURN RIGHT ONLY R3-31R

R3-1

STAGE 9 WORK AREA: PERFORM INCIDENTAL CONSTRUCTION TASKS ON NB AND SB W GRAND BLVD INCLUDING LANDSCAPING, INSTALLING SIGNING AND PERMANENT MARKINGS AND FINAL CLEAN UP VIA TRAFFIC REGULATOR

DETOUR 4 IN PLACE DURING THIS STAGE

NOTE: THE SEQUENCE OF STAGE 9 AND STAGE 10 CONSTRUCTION MAY BE REVERSED DUE TO CSX RAILROAD CONSTRUCTION TIMELINE.

CSX RR

W JEFFERSON AVE

M-85 (FORT ST)

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JN: PW-7031
RIVERSIDE PARK

MAINTAINING TRAFFIC STAGE 9&10
RIVERSIDE PARK

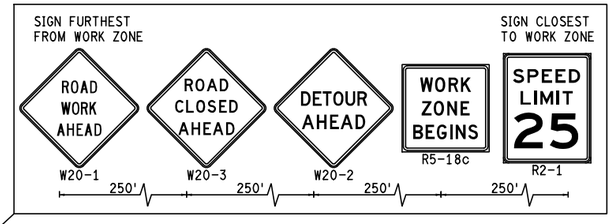
DRAWING: RIV MTSTG10 001

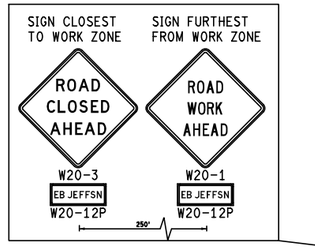
SHEET: 70

W JEFFERSON AVE

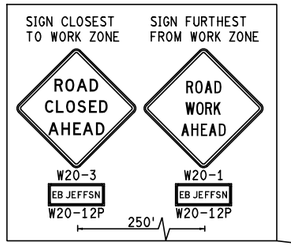
CSX RR

M-85 (FORT ST)

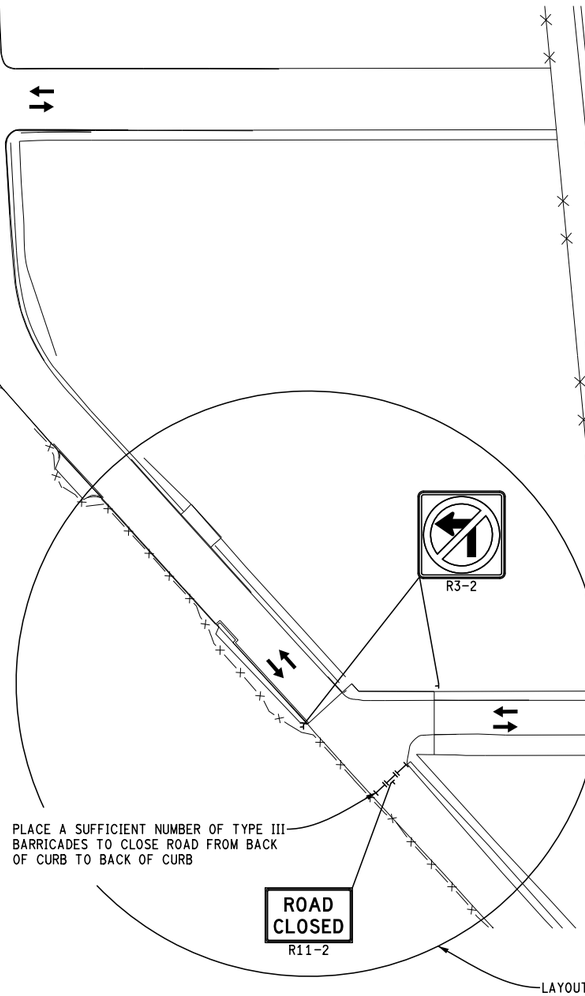




SWAIN ST



VINEWOOD ST



PLACE A SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB

LAYOUT AS SHOWN APPLIES TO STAGE 2 AND ALL SUBSEQUENT STAGES. SEE MAINTAINING TRAFFIC STAGE 1A PLAN SHEET FOR TEMPORARY TRAFFIC CONTROL DURING STAGE 1A. ALL OTHER TEMPORARY TRAFFIC CONTROL SHOWN ON THIS SHEET APPLIES TO ALL STAGES, EXCEPT STAGE 1B.

NOTE:
SEE DETOUR 3 FOR DETAILED DETOUR ROUTES AND SIGNING

DETAIL 1

CLOSURE DETAIL FOR JEFFERSON AVE AND VINEWOOD ST

W JEFFERSON AVE CSX RR M-85 (FORT ST)

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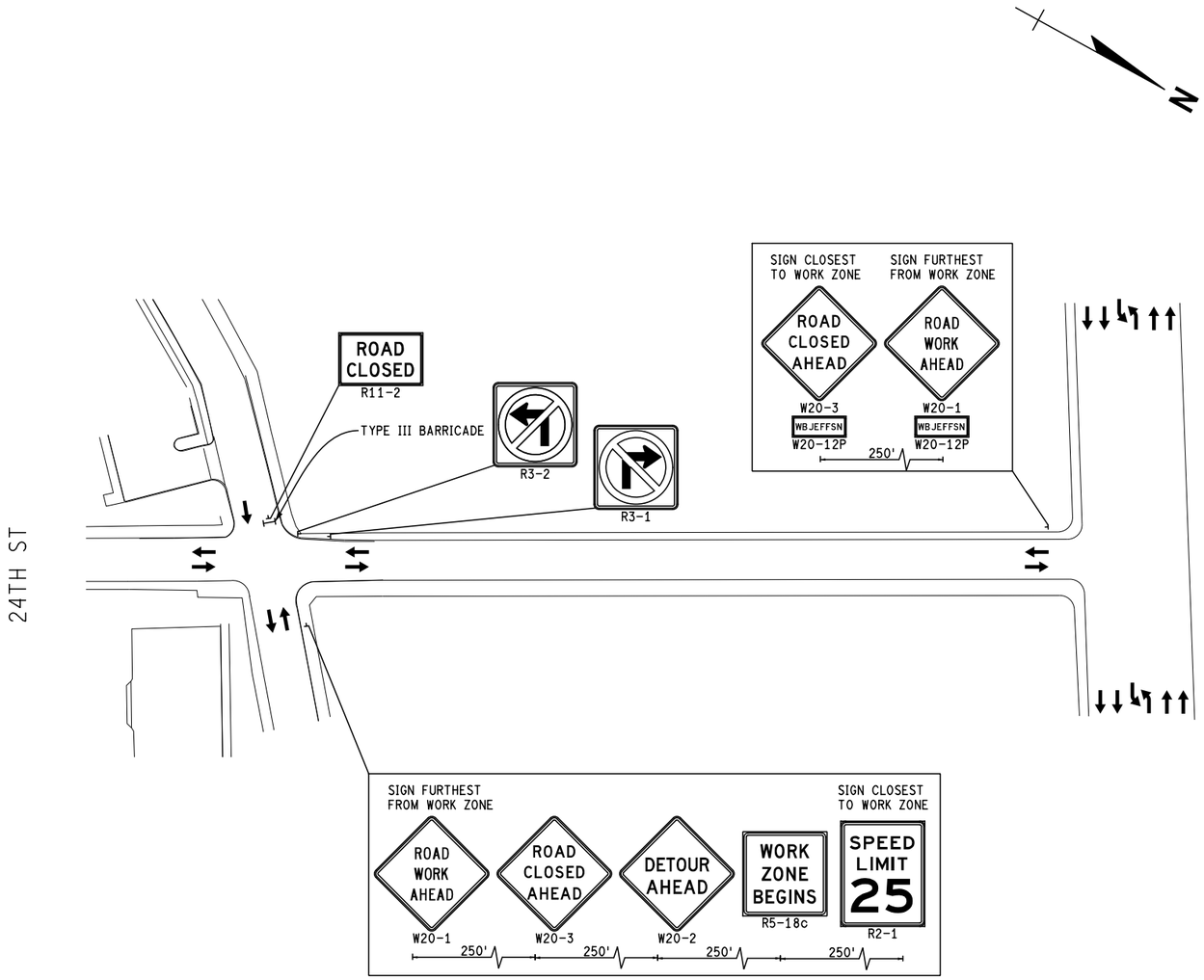
RIVERSIDE PARK

MAINTAINING TRAFFIC SPECIAL DETAILS
RIVERSIDE PARK

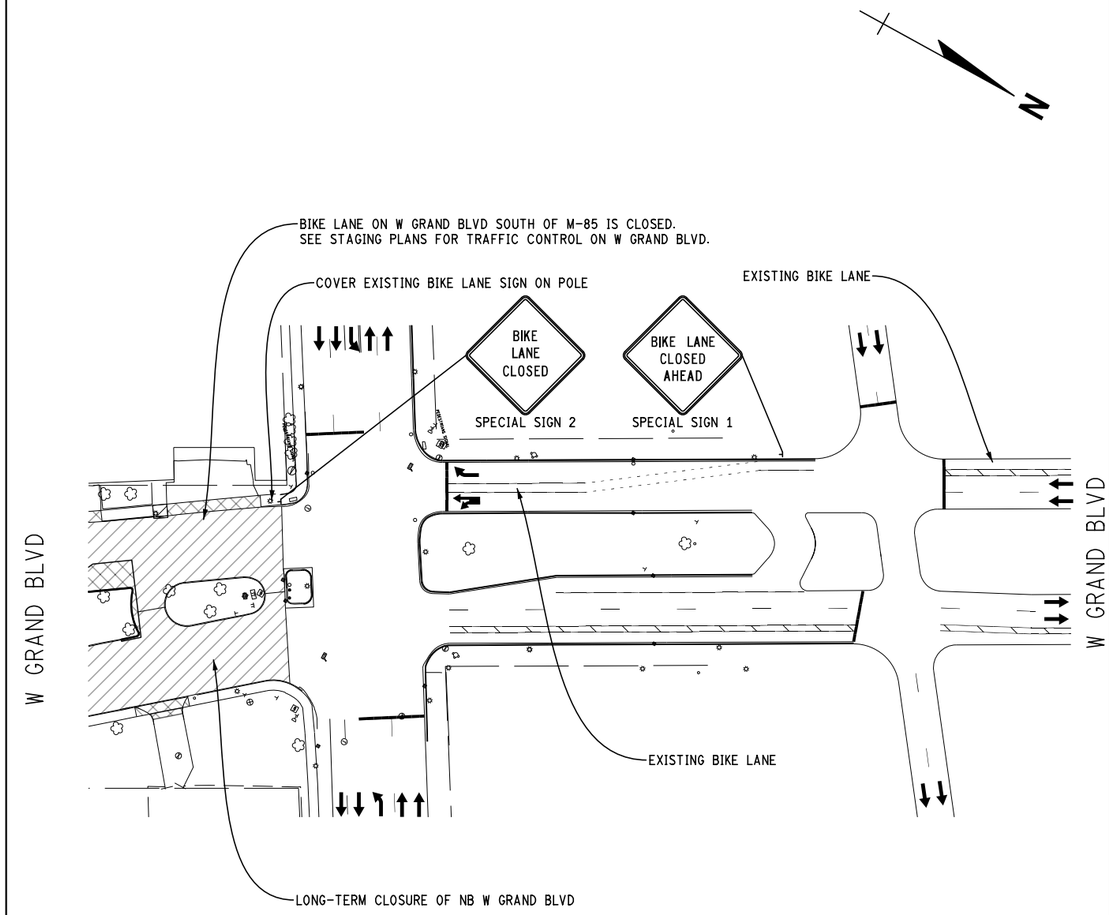
DRAWING: RIV MTSDET 001

SHEET: 71



NOTE:
SEE DETOUR 4 FOR DETAILED DETOUR ROUTES AND SIGNING

DETAIL 2
CLOSURE DETAIL FOR JEFFERSON AVE AND 24TH ST



NOTE:
THIS DETAIL APPLIES TO ALL STAGES OF CONSTRUCTION ON W GRAND BLVD

DETAIL 3
CLOSURE DETAIL FOR BIKE LANE ON W GRAND BLVD

W JEFFERSON AVE M-85 (FORT ST) M-85 (FORT ST) W FISHER SERVICE DR

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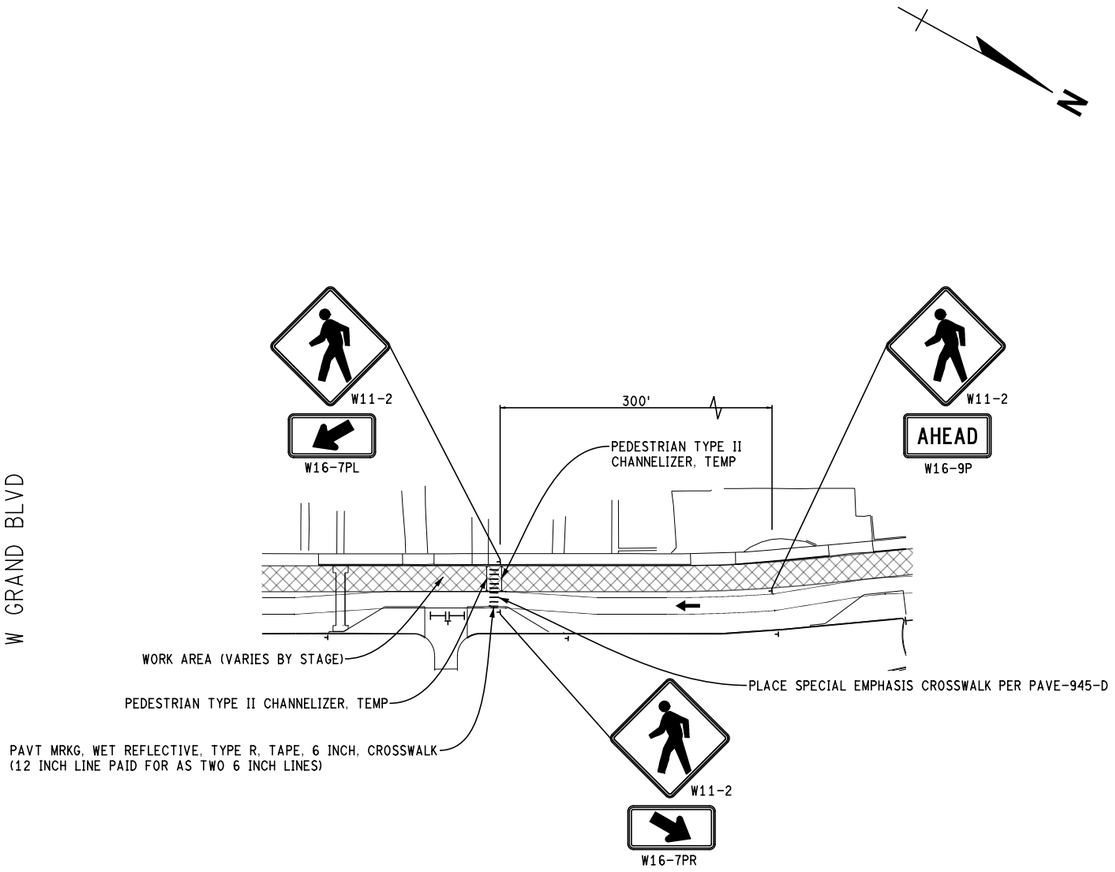
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION				FILE:		JN: PW-7031 RIVERSIDE PARK	RIVERSIDE PARK	RIV MTSDET 002	72



NOTE:
THIS DETAIL APPLIES IN STAGES 2, 5, AND 7 FOR PEDESTRIAN ACCESS TO THE PARKING LANE ADJACENT TO THE MEDIAN

DETAIL 4

DETAIL FOR MID-BLOCK PEDESTRIAN CROSSING

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RIVERSIDE PARK

MAINTAINING TRAFFIC SPECIAL DETAILS
RIVERSIDE PARK

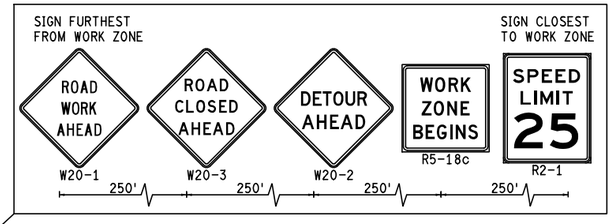
DRAWING: RIV MTSDET 003

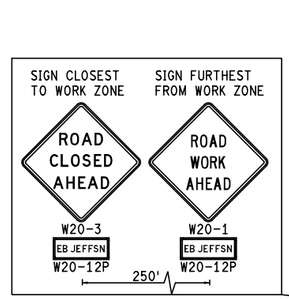
SHEET: 73

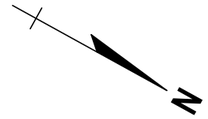
W JEFFERSON AVE

CSX RR

M-85 (FORT ST)





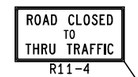


SWAIN ST

PLACE A SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB

WORK AREA: RECONSTRUCT SIDEWALK AND SPOT LOCATIONS OF CURB ALONG JEFFERSON AVE BETWEEN SWAIN ST AND VINEWOOD ST

PLACE A SUFFICIENT NUMBER OF TYPE III BARRICADES TO CLOSE ROAD FROM BACK OF CURB TO BACK OF CURB



VINEWOOD ST

WORK AREA: RECONSTRUCT THE INTERSECTION OF JEFFERSON AVE AND VINEWOOD ST

WORK AREA: RECONSTRUCT AND REALIGN JEFFERSON AVE BETWEEN VINEWOOD ST AND W. GRAND BLVD

NOTE:
SEE DETOUR 3 FOR DETAILED DETOUR ROUTES AND SIGNING

DETAIL 5

CLOSURE DETAIL FOR JEFFERSON AVE AND VINEWOOD ST

W JEFFERSON AVE CSX RR

M-85 (FORT ST)

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FILE:

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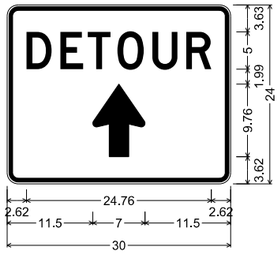
JN: PW-7031
RIVERSIDE PARK

MAINTAINING TRAFFIC SPECIAL DETAILS
RIVERSIDE PARK

DRAWING: RIV MTSDET 004

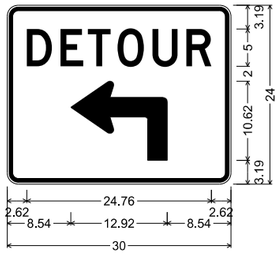
SHEET: 74



M4-9 (MOD);
1.50" Radius, 0.50" Border, 0.25" Indent, Black on, Orange;
"DETOUR", D;
Standard Arrow Custom 9.75" X 7.00" 90';
Table of distances between letter and object lefts

	D	E	T	O	U	R	
2.62	4.53	3.67	3.98	4.69	4.53	3.36	2.62

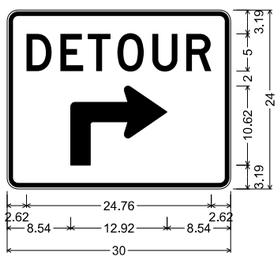
11.50	7.00	11.50



M4-9 (MOD);
1.50" Radius, 0.50" Border, 0.25" Indent, Black on, Orange;
"DETOUR", D;
Table of distances between letter and object lefts

	D	E	T	O	U	R	
2.62	4.53	3.67	3.98	4.69	4.53	3.36	2.62

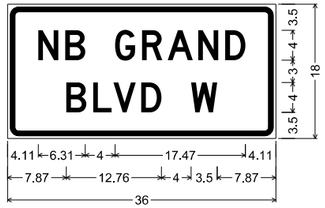
8.54	12.92	8.54



M4-9 (MOD);
1.50" Radius, 0.50" Border, 0.25" Indent, Black on, Orange;
"DETOUR", D;
Table of distances between letter and object lefts

	D	E	T	O	U	R	
2.62	4.53	3.67	3.98	4.69	4.53	3.36	2.62

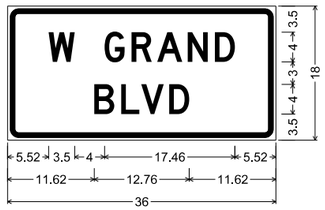
8.54	12.92	8.54



W20-12P
1.50" Radius, 0.63" Border, 0.38" Indent, Black on, Orange;
"NB GRAND", D; "BLVD W", D;
Table of distances between letter and object lefts

	N	B	G	R	A	N	D	
4.11	3.62	6.69	3.63	3.43	4.10	3.62	2.69	4.11

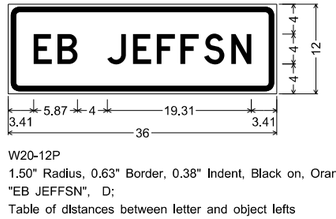
7.87	B 3.63	L 2.69	V 3.75	D 6.69	W 3.50	7.87



W20-12P
1.50" Radius, 0.63" Border, 0.38" Indent, Black on, Orange;
"W GRAND", D; "BLVD", D;
Table of distances between letter and object lefts

	W	G	R	A	N	D	
5.52	7.50	3.62	3.44	4.09	3.63	2.68	5.52

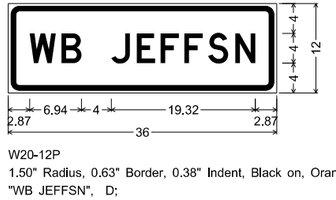
11.62	B 3.63	L 2.69	V 3.75	D 2.69	11.62



W20-12P
1.50" Radius, 0.63" Border, 0.38" Indent, Black on, Orange;
"EB JEFFSN", D;
Table of distances between letter and object lefts

	E	B
3.41	3.18	

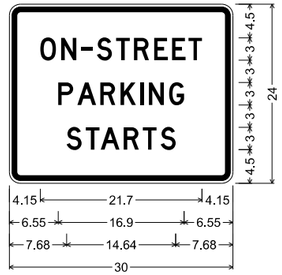
6.69	J 3.44	E 3.19	F 3.18	F 3.19	S 3.63	N 2.68	3.41



W20-12P
1.50" Radius, 0.63" Border, 0.38" Indent, Black on, Orange;
"WB JEFFSN", D;
Table of distances between letter and object lefts

	W	B
2.87	4.25	

6.69	J 3.44	E 3.19	F 3.18	F 3.19	S 3.63	N 2.69	2.87

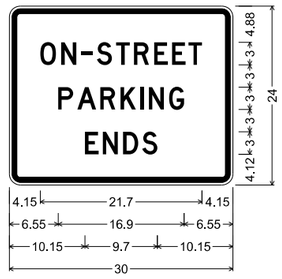


SPECIAL SIGN 3
1.50" Radius, 0.63" Border, 0.38" Indent, Black on, Fluorescent orange;
"ON-STREET", D; "PARKING", D;
"STARTS", D;
Table of distances between letter and object lefts

	O	N	-	S	T	R	E	E	T	
4.15	2.81	2.72	2.06	2.58	2.39	2.72	2.39	2.20	1.83	4.15

	P	A	R	K	I	N	G	
6.55	2.58	3.07	2.72	2.62	1.17	2.72	2.02	6.55

7.68	S 2.57	T 2.02	A 3.07	R 2.58	T 2.39	S 2.01	7.68



SPECIAL SIGN 4
1.50" Radius, 0.63" Border, 0.38" Indent, Black on, Fluorescent orange;
"ON-STREET", D; "PARKING", D;
"ENDS", D;
Table of distances between letter and object lefts

	O	N	-	S	T	R	E	E	T	
4.15	2.81	2.72	2.06	2.58	2.39	2.72	2.39	2.20	1.83	4.15

	P	A	R	K	I	N	G	
6.55	2.58	3.07	2.72	2.62	1.17	2.72	2.02	6.55

10.15	E 2.39	N 2.72	D 2.58	S 2.01	10.15

SPECIAL SIGN 1
36.00" across sides 3.75" Radius, 0.88" Border, 0.63" Indent, Black on, Fluorescent orange;
"BIKE LANE", D; "CLOSED", D; "AHEAD", D;
Table of distances between letter and object lefts

	B	I	K	E	L	A	N	E	
9.92	3.62	1.57	3.50	6.43	2.69	4.09	3.63	2.44	9.92

	C	L	O	S	E	D	
14.06	3.44	3.18	3.57	3.62	3.19	2.69	14.06

	A	H	E	A	D	
15.18	4.10	3.62	2.94	4.09	2.69	15.19

SPECIAL SIGN 2
36.00" across sides 3.75" Radius, 0.88" Border, 0.63" Indent, Black on, Fluorescent orange;
"BIKE", D; "LANE", D; "CLOSED", D;
Table of distances between letter and object lefts

	B	I	K	E	
18.34	3.63	1.56	3.50	2.44	18.34

	L	A	N	E	
17.48	2.69	4.09	3.63	2.43	17.49

	C	L	O	S	E	D	
14.06	3.44	3.18	3.57	3.62	3.19	2.69	14.06

SPECIAL SIGN DETAILS

SPECIAL SIGN DETAILS FOR TEMPORARY SIGNS

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FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

MAINTAINING TRAFFIC SPECIAL DETAILS
RIVERSIDE PARK

DRAWING	SHEET
RIV MTSDET 005	75

DETROIT RIVER

W JEFFERSON AVE

CSX RR

M-85 (FORT ST)

W GRAND BLVD

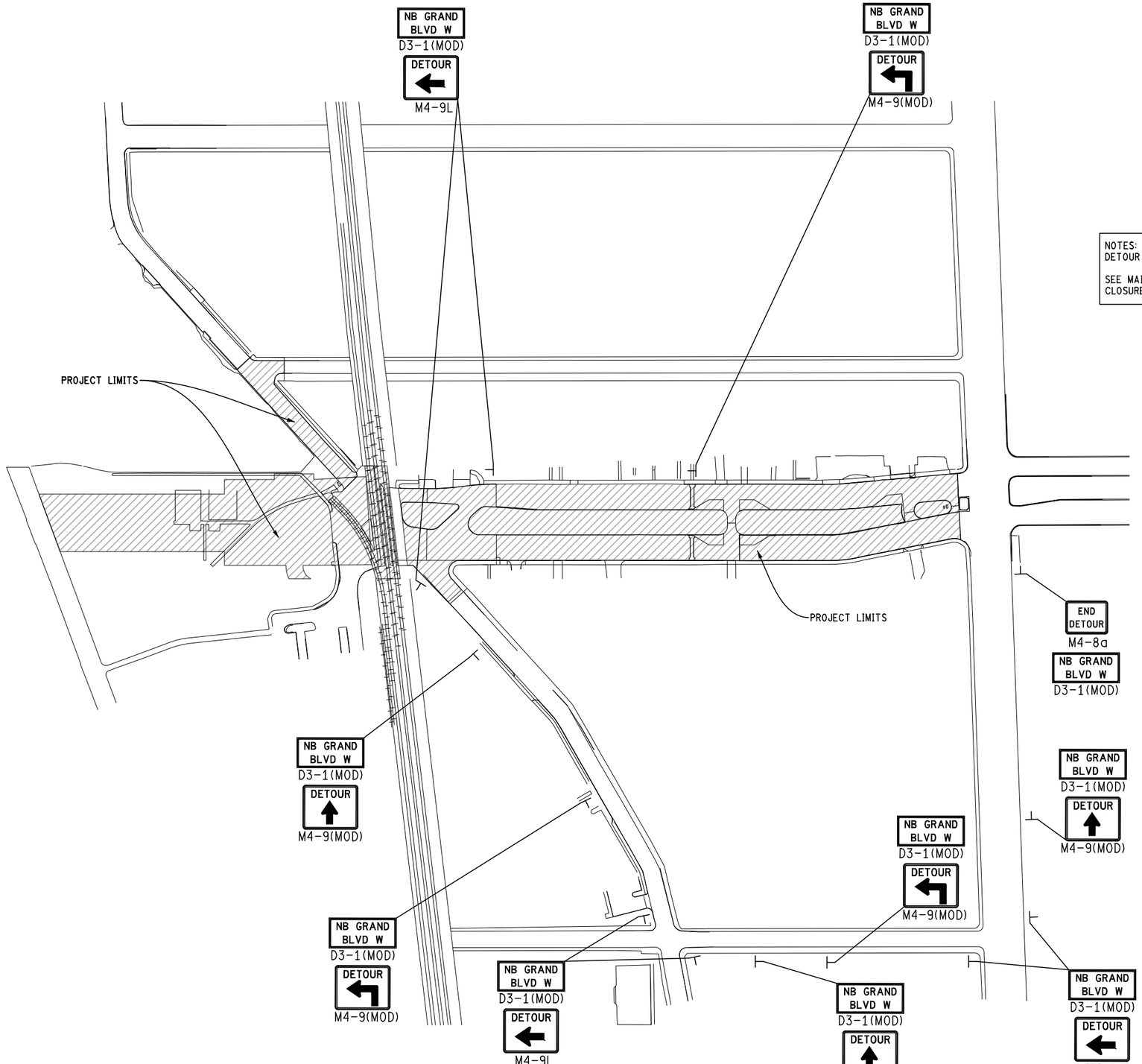
SWAIN ST

VINEWOOD ST

W GRAND BLVD

24TH ST

24TH ST



NOTES:
DETOUR 1 IS IN PLACE FROM STAGE 1B TO STAGE 8.

SEE MAINTAINING TRAFFIC PLANS FOR STAGING PLANS AND CLOSURE DETAILS.

DETROIT RIVER

CSX RR

W JEFFERSON AVE

M-85 (FORT ST)

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City of Detroit

0 HORZ. (FT) 200

FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

MAINTAINING TRAFFIC: DETOUR 1
RIVERSIDE PARK

DRAWING: RIV MTDETR 001

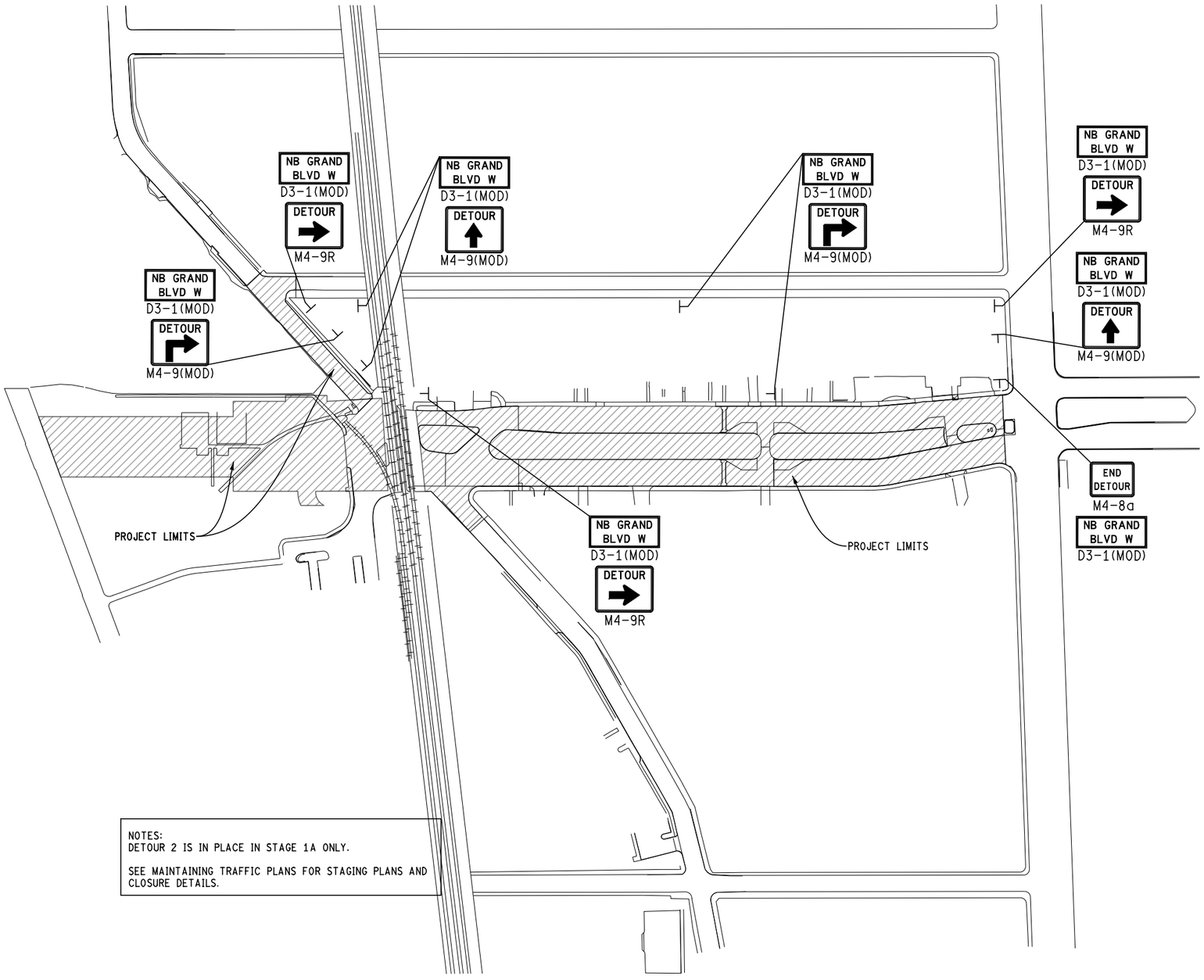
SHEET: 76

DETROIT RIVER | W JEFFERSON AVE | CSX RR | M-85 (FORT ST)

W GRAND BLVD

SWAIN ST

VINEWOOD ST



NOTES:
DETOUR 2 IS IN PLACE IN STAGE 1A ONLY.

SEE MAINTAINING TRAFFIC PLANS FOR STAGING PLANS AND CLOSURE DETAILS.

24TH ST

DETROIT RIVER | CSX RR | W JEFFERSON AVE | M-85 (FORT ST)

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0 HORZ. (FT) 200

FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

MAINTAINING TRAFFIC: DETOUR 2
RIVERSIDE PARK

DRAWING: RIV MTDETR 002

SHEET: 77

DETROIT RIVER

W JEFFERSON AVE

CSX RR

M-85 (FORT ST)

W GRAND BLVD

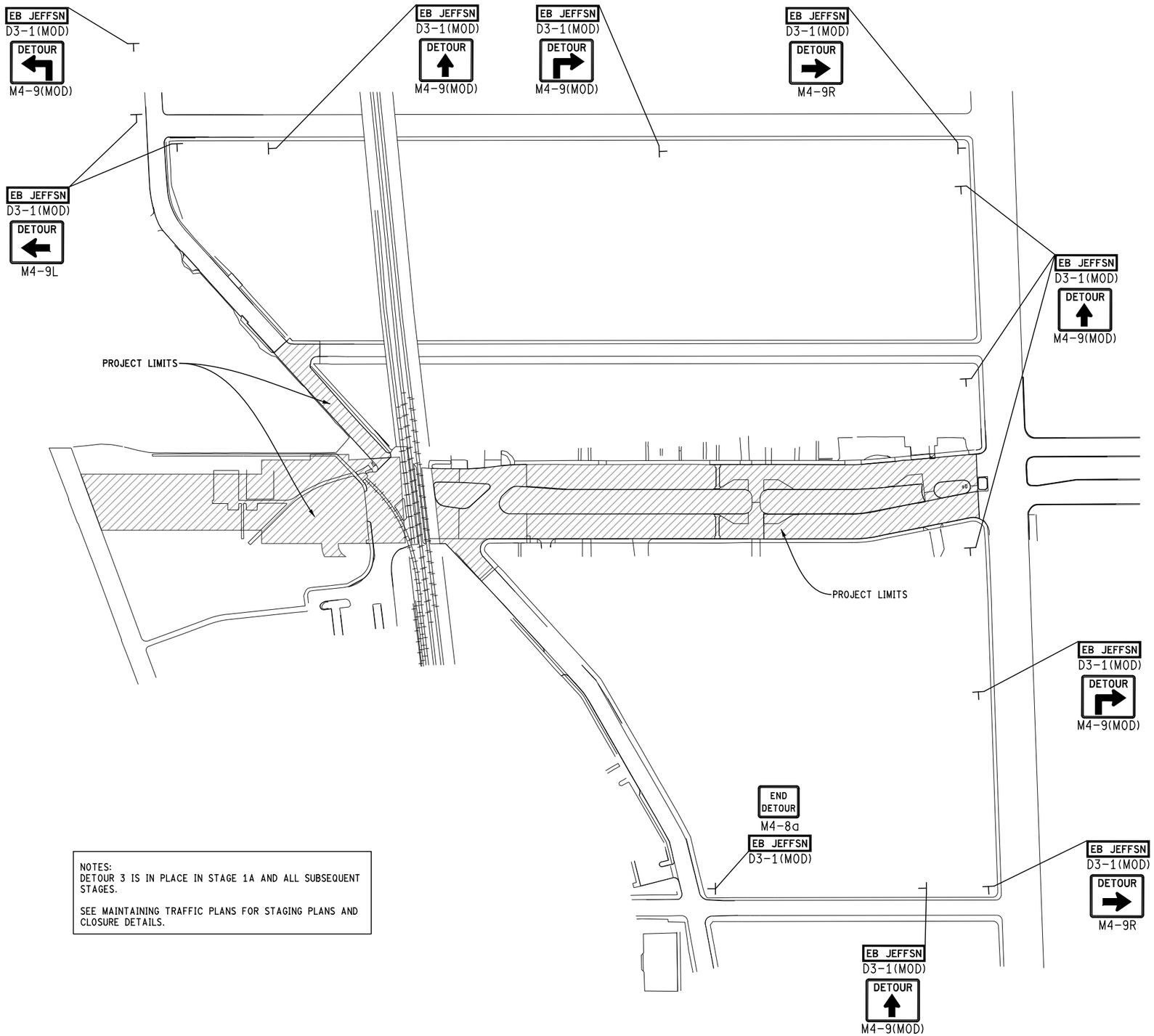
SWAIN ST

VINEWOOD ST

W GRAND BLVD

24TH ST

24TH ST



NOTES:
DETOUR 3 IS IN PLACE IN STAGE 1A AND ALL SUBSEQUENT STAGES.

SEE MAINTAINING TRAFFIC PLANS FOR STAGING PLANS AND CLOSURE DETAILS.

DETROIT RIVER

CSX RR

W JEFFERSON AVE

M-85 (FORT ST)

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Detroit

0 HORZ. (FT) 200

FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

MAINTAINING TRAFFIC: DETOUR 3
RIVERSIDE PARK

DRAWING	SHEET
RIV MTDETR 003	78

DETROIT RIVER

W JEFFERSON AVE

CSX RR

M-85 (FORT ST)

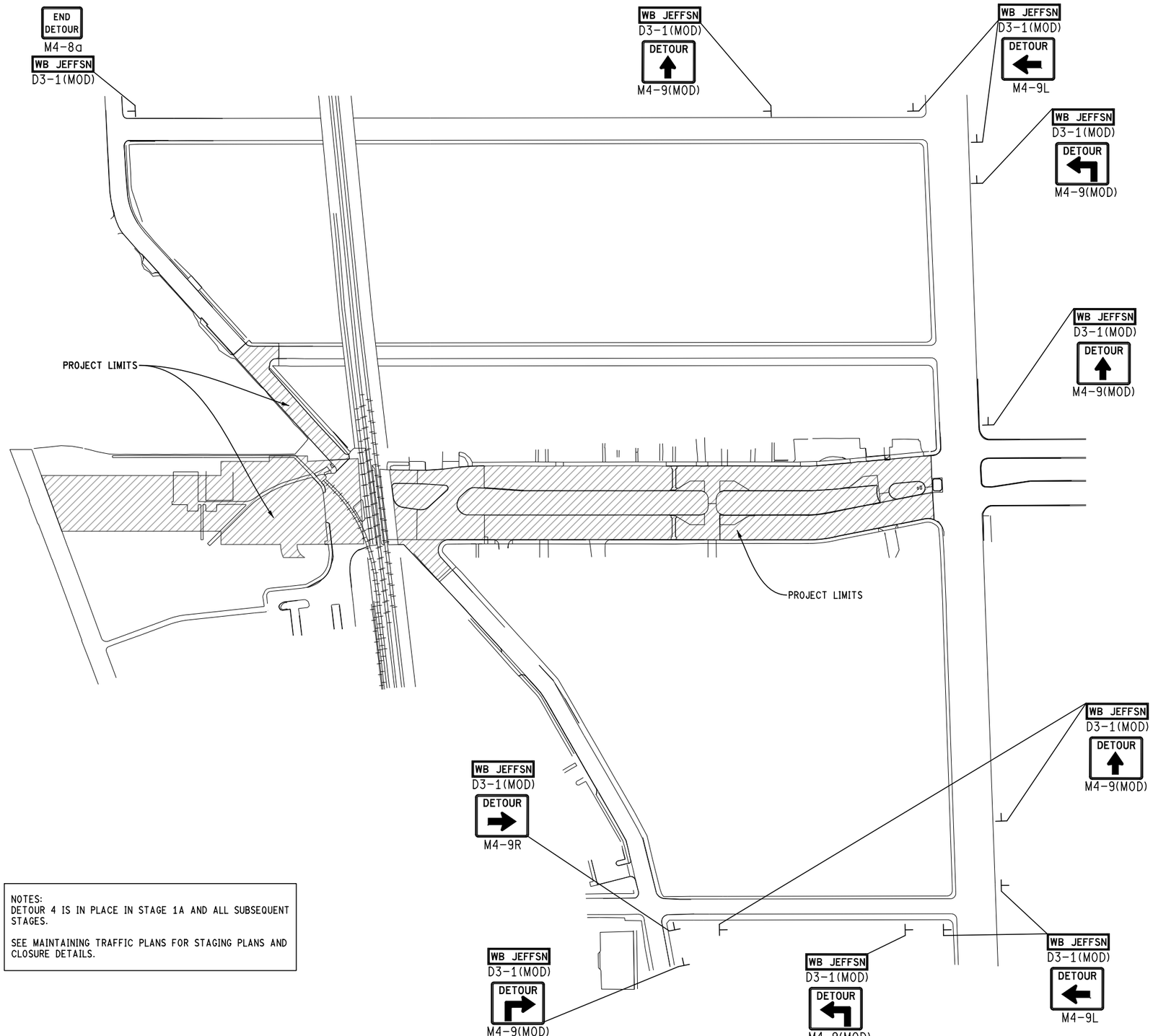
W GRAND BLVD

SWAIN ST

VINEWOOD ST

W GRAND BLVD

24TH ST



NOTES:
DETOUR 4 IS IN PLACE IN STAGE 1A AND ALL SUBSEQUENT STAGES.

SEE MAINTAINING TRAFFIC PLANS FOR STAGING PLANS AND CLOSURE DETAILS.

DETROIT RIVER

CSX RR

W JEFFERSON AVE

M-85 (FORT ST)

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

City of Detroit

0 HORZ. (FT) 200

FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

MAINTAINING TRAFFIC: DETOUR 4

RIVERSIDE PARK

DRAWING	SHEET
RIV MTDETR 004	79

DETROIT RIVER

W JEFFERSON AVE

W GRAND BLVD

W GRAND BLVD

TOP OF CURB/ FLUSH PAVEMENT JOINT. BEGIN TAPER TO STANDARD CURB PROFILE

N 298601.39
E 13470950.65
ELEV 580.36

N 298627.66
E 13470936.18
ELEV 580.36

N 298638.06
E 13471017.22
ELEV 580.23

N 298649.56
E 13470924.11
ELEV 580.81

N 298627.07
E 13470966.19
ELEV 581.74

N 298652.72
E 13470949.71
ELEV 581.14

N 298670.81
E 13470942.09
ELEV 580.77

N 298658.65
E 13470961.35
ELEV 581.11

N 298662.03
E 13470967.48
ELEV 581.25

N 298664.33
E 13471002.74
ELEV 580.23

N 298683.36
E 13471006.19
ELEV 582.13

N 298692.91
E 13471023.53
ELEV 581.83

N 298696.42
E 13471029.59
ELEV 581.73

N 298719.12
E 13471029.65
ELEV 581.54

N 298703.24
E 13471040.33
ELEV 581.93

N 298722.90
E 13471057.25
ELEV 581.72

N 298701.01
E 13471069.31
ELEV 581.34

TOP OF CURB/ FLUSH PAVEMENT JOINT. BEGIN TAPER TO STANDARD CURB PROFILE

N 298598.79
E 13470980.05
ELEV 581.01

N 298605.65
E 13470993.97
ELEV 580.93

N 298590.92
E 13471002.09
ELEV 580.70

N 298555.25
E 13471005.76
ELEV 581.35

N 298505.62
E 13471003.41
ELEV 581.12

N 298467.44
E 13471033.58
ELEV 582.08

N 298517.20
E 13471024.43
ELEV 581.64

N 298411.39
E 13471064.46
ELEV 583.04

N 298419.11
E 13471078.48
ELEV 583.28

N 298399.31
E 13471089.38
ELEV 583.62

N 298376.61
E 13471082.81
ELEV 583.13

N 298384.67
E 13471097.45
ELEV 583.37

N 298285.86
E 13471133.62
ELEV 581.57

N 298228.66
E 13471183.40
MATCH EX 580.70

N 298287.45
E 13471210.38
ELEV 581.72

N 298270.63
E 13471219.65
MATCH EX 580.75

N 298312.36
E 13471255.91
MATCH EX 580.69

POT=10+00.00

POT=10+00.00

POT=10+00.00

N 28° 51' 06" W

N 28° 51' 06" W

N 61° 08' 54" E

POT=103+18.94

PT=103+35.36

L103

BW 202

BW 201

581.65

581.04

583.4

3.1%

HIGH POINT
N 298427.28
E 13471133.34
ELEV 584.12

FLUSH PAVEMENT JOINT LINE

N 298293.58
E 13471147.63
ELEV 581.81

N 298304.35
E 13471201.07
ELEV ~~582.01~~ 581.50

N 298343.76
E 13471238.72
ELEV 581.22

N 298469.29
E 13471169.57
ELEV 583.37

N 298475.16
E 13471047.59
ELEV 582.32

N 298504.33
E 13471150.26
ELEV 582.93

N 298516.68
E 13471084.09
ELEV 583.08

N 298852.30
E 13471069.98
ELEV 582.64

N 298628.78
E 13471036.28
ELEV 581.90

N 298639.94
E 13471057.28
ELEV 581.42

CURB INLET. SEE DRAINAGE PLANS. TYP.

N 298351.48
E 13471252.74
ELEV 580.98

N 298434.85
E 13471188.54
ELEV 582.78

N 298477.01
E 13471183.58
ELEV 583.19

N 298474.02
E 13471166.96
ELEV 583.45

N 298525.35
E 13471138.68
ELEV 582.57

N 298567.39
E 13471115.52
ELEV 582.12

N 298625.66
E 13471065.15
ELEV 581.24

N 298442.57
E 13471202.55
ELEV 582.54

N 298533.07
E 13471152.70
ELEV 583.33

N 298578.97
E 13471136.54
ELEV 581.37

N 298603.50
E 13471093.34
ELEV 581.78

N 298648.46
E 13471070.28
ELEV 581.65

N 298674.73
E 13471083.78
ELEV 581.34

N 298690.05
E 13471102.75
MATCH EX

N 298717.68
E 13471087.53
ELEV 582.63

N 298676.27
E 13471053.25
ELEV 582.38

NOTES:

ALL AREAS ARE DESIGNED AND INTENDED TO MEET ADA GUIDELINES. CONTRACTOR TO NOTIFY ENGINEER IF THE FIELD CONDITIONS ARE SUCH THAT ADA COMPLIANCE IS NOT ACHIEVED.

THE CONTRACTOR SHALL EXERCISE CAUTION IN ALL EXCAVATION ACTIVITIES DUE TO POSSIBLE EXISTENCE OF UNRECORDED UTILITY LINES.

PROVIDE POSITIVE DRAINAGE AWAY FROM VEHICULAR LANES AND BICYCLE AND PEDESTRIAN PAVEMENTS AT ALL LOCATIONS.

THE CONTRACTOR SHALL BLEND NEW GRADING SMOOTHLY INTO EXISTING GRADE AT LIMITS OF GRADING WORK. THE PROPOSED PAVEMENT GRADES ARE INTENDED TO MEET EXISTING PAVEMENT ELEVATIONS FLUSH.

DETROIT RIVER

PARKING LOT

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

Detroit

0 HORZ. (FT) 40

FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

GRADING SHEET
RIVERSIDE PARK
NB W GRAND BLVD POB TO STA 15+00

DRAWING: RIV DETGRD 001

SHEET: 80

NOTES:

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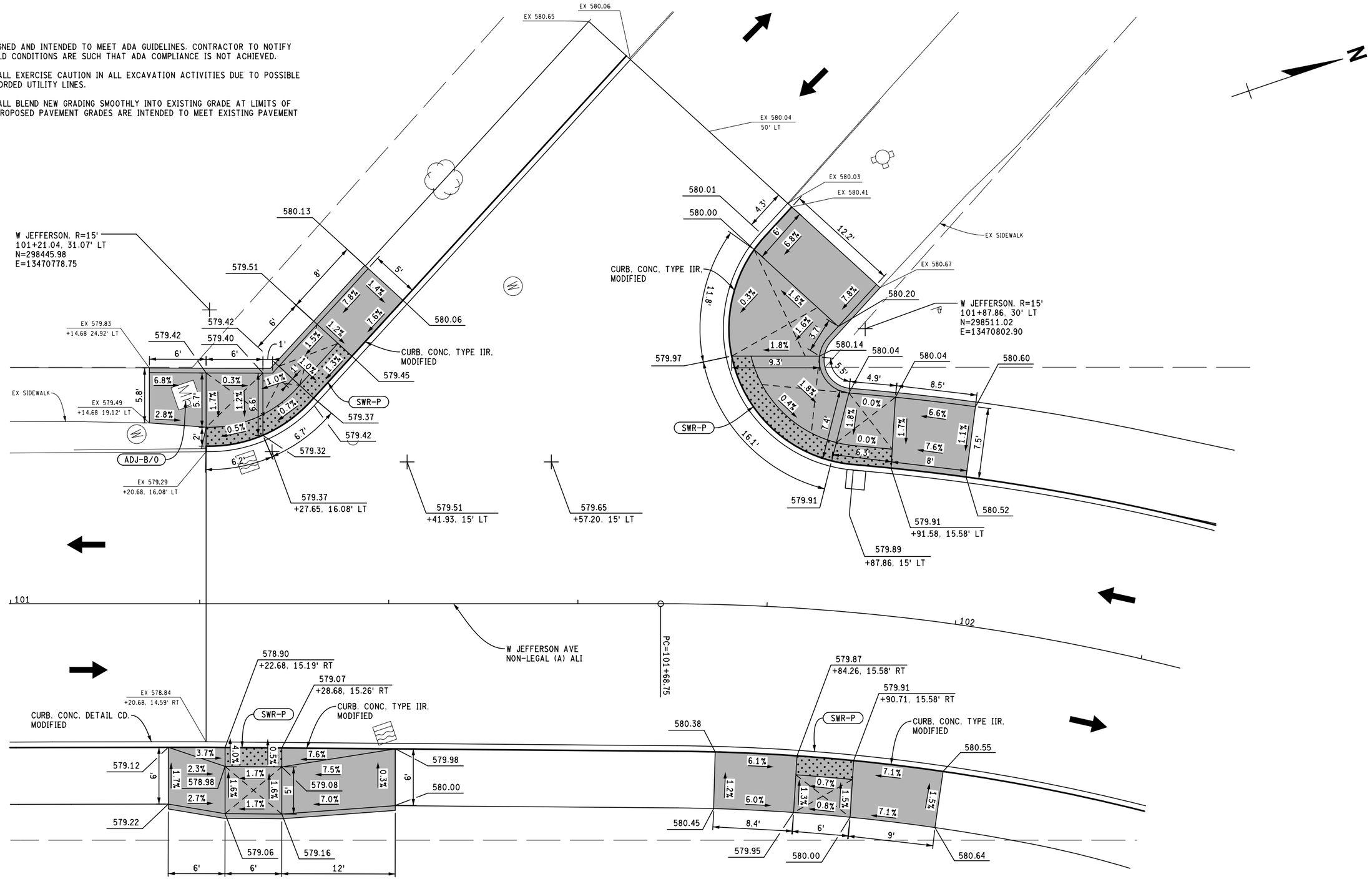
VINEWOOD ST

W JEFFERSON AVE

W JEFFERSON AVE



FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

City of Detroit

0 HORZ. (FT) 10

FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

GRADING SHEET
RIVERSIDE PARK
VINEWOOD ST AT W JEFFERSON AVE

DRAWING: RIV DETGRD 002

SHEET: 81

W JEFFERSON AVE

NB W GRAND BLVD

NB W GRAND BLVD

31'

580.91
+99.03, 26.00' LT

580.91
+68.03, 26.00' LT

582.35
+74.04, 27.70' LT

10'

581.33
+14.03, 11.00' LT

NB W GRAND BLVD
NON-LEGAL (A) ALI

582.13
+52.41, 5.89' RT

581.12
+53.03, 11.00' LT

11'

581.42
+43.03, 0.00' RT

581.46
+54.05, 2.56' RT

EX EL = 580.99*
PR EL = 581.31
+73.68, 2.95' RT

582.76
+74.04, 0.00' RT

45'

16

17

18

582.04
TOP OF CURB

581.49
+09.03, 0.000' RT

21.7'

581.49
+09.03, 10.72' RT

582.46
+74.04, 10.72' RT

0.64'

582.13
+66.52, 21.35' RT

581.54
+67.74, 21.16' RT

582.12
TOP OF CURB

581.55
+68.03, 25.00' RT

4'

581.57
+99.03, 20.72' RT

582.25
+74.04, 17.30' RT

581.62
+99.03, 25.00' RT

581.37
+68.03, 39.00' RT

1.13'

581.48
+99.03, 39.00' RT

581.35
+99.08, 49.00' RT

581.24
+68.05, 49.00' RT

SEE DETGRD 004 FOR DETAIL GRADE

SEE DETGRD 004 FOR DETAIL GRADE

580.84
+11.99, 69.25' RT

580.77
+81.00, 81.21' RT

580.70
+15.36, 72.94' RT

32.3'

CP 104

580.61
+89.12, 90.15' RT

580.58
+91.52, 94.74' RT

NOTES:

ALL AREAS ARE DESIGNED AND INTENDED TO MEET ADA GUIDELINES. CONTRACTOR TO NOTIFY ENGINEER IF THE FIELD CONDITIONS ARE SUCH THAT ADA COMPLIANCE IS NOT ACHIEVED.

THE CONTRACTOR SHALL EXERCISE CAUTION IN ALL EXCAVATION ACTIVITIES DUE TO POSSIBLE EXISTENCE OF UNRECORDED UTILITY LINES.

THE CONTRACTOR SHALL BLEND NEW GRADING SMOOTHLY INTO EXISTING GRADE AT LIMITS OF GRADING WORK. THE PROPOSED PAVEMENT GRADES ARE INTENDED TO MEET EXISTING PAVEMENT ELEVATIONS FLUSH.

EXISTING ROADWAY ELEVATION AT PROPOSED GLWA ACCESS MANHOLE LOCATION PROVIDED FOR INFORMATION ONLY. PROPOSED ROADWAY WILL BE GRADED TO PROPOSED ELEVATION WITHIN THE SCOPE OF DPW PROJECT PW-7031: RIVERSIDE PARK.

CSX RR

W JEFFERSON AVE

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

Detroit

0 HORZ. (FT) 20

DATE: 05/24/21

FILE:

JN: PW-7031
RIVERSIDE PARK

GRADING SHEET
RIVERSIDE PARK
NB W GRAND BLVD STA 15+50 TO STA 18+50

DRAWING: RIV DETGRD 003

SHEET: 82

NB W GRAND BLVD

NB W GRAND BLVD

16

17

NB W GRAND BLVD
NON-LEGAL (A) ALI

N

R 10'
581.70
1.0%
2.2%
R 10'
581.60
2.2%
20.1'
582.04
0.4%
R 15'
12.5'
581.99
9.2'
582.14
1.0%
R 5'
4.2'
0.5%
582.12
1.8%
14.2'
581.87
7.1%
581.37
+67.45, 39.00' RT
1.4%
581.80
581.88
1.3%
1.6%
1.2%
5'
1.2%
1.6%
7.1%
7.1%
581.30
+67.45, 44.00' RT
SWR-R
581.24
+67.45, 49.00' RT
1.8%
581.82
581.74
5'
7'
CURB, CONC.
TYPE IIR, MODIFIED

582.55 TOP/CURB
582.43 TOP/SIDEWALK
R 25'
19.5'
0.7%
582.30
1.2%
0.6%
582.20
582.15
R 10'
7.8'
24.9'
3.6%
581.40
581.34
3.0%
26'
CURB, CONC.
TYPE IIR, MODIFIED
581.48
+99.62, 39.00' RT
7.6'
R 10'
1.8%
1.2%
5.2'
1.0%
9'
0.4%
7.6'
0.3%
581.42
+99.62, 44.00' RT
581.28
5'
581.37
1.8%
1.8%
1.8%
1.4%
1.4%
1.6%
5'
581.29
0.7%
SWR-P
581.36
R 10'
1.6'
581.21
7.8'
R 1'
5.5'
5.6%
6%
0.0%
8.6'
581.35
+99.67, 49.00' RT
7.7'
580.84
580.86
TOP/CURB 581.86
TOP/SIDEWALK 580.84
580.88
TOP/CURB 580.82
TOP/SIDEWALK 580.82
EX 580.90
TOP/CURB 580.80
TOP/SIDEWALK 580.80
EX 580.90
EX 580.70

W JEFFERSON AVE

NOTES:

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THE CONTRACTOR SHALL EXERCISE CAUTION IN ALL EXCAVATION ACTIVITIES DUE TO POSSIBLE EXISTENCE OF UNRECORDED UTILITY LINES.

THE CONTRACTOR SHALL BLEND NEW GRADING SMOOTHLY INTO EXISTING GRADE AT FACE OF BUILDINGS AND LIMITS OF GRADING WORK. THE PROPOSED PAVEMENT GRADES ARE INTENDED TO MEET EXISTING PAVEMENT ELEVATIONS FLUSH.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

City of Detroit

0 HORZ. (FT) 10

FILE:

DATE: 05/24/21

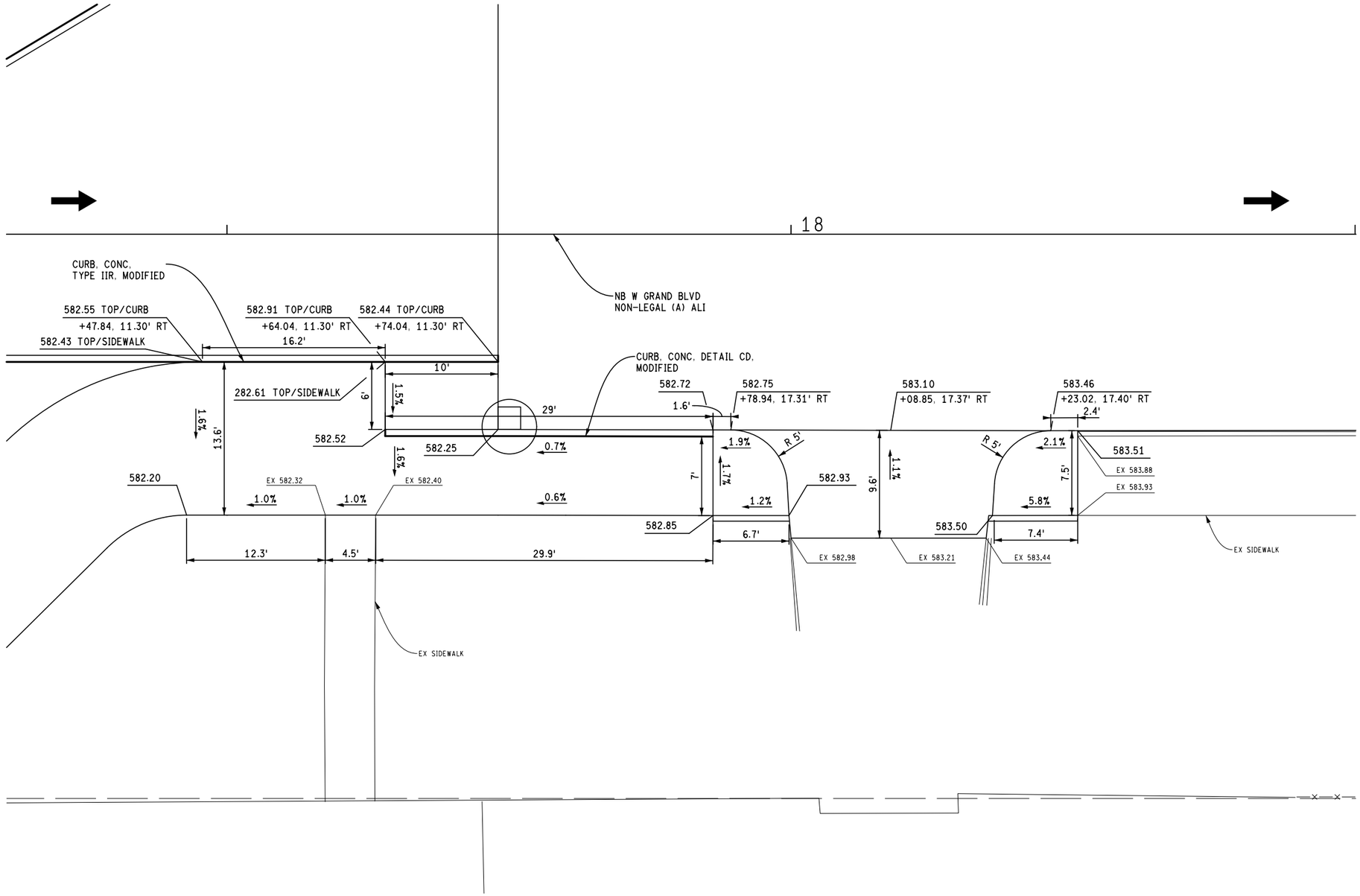
JN: PW-7031
RIVERSIDE PARK

GRADING SHEET
RIVERSIDE PARK
JEFFERSON AVE AT W GRAND BLVD

DRAWING: RIV DETGRD 004

SHEET: 83

NB W GRAND BLVD



NB W GRAND BLVD

NOTES:

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FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

Detroit

0 HORZ. (FT) 10

FILE:

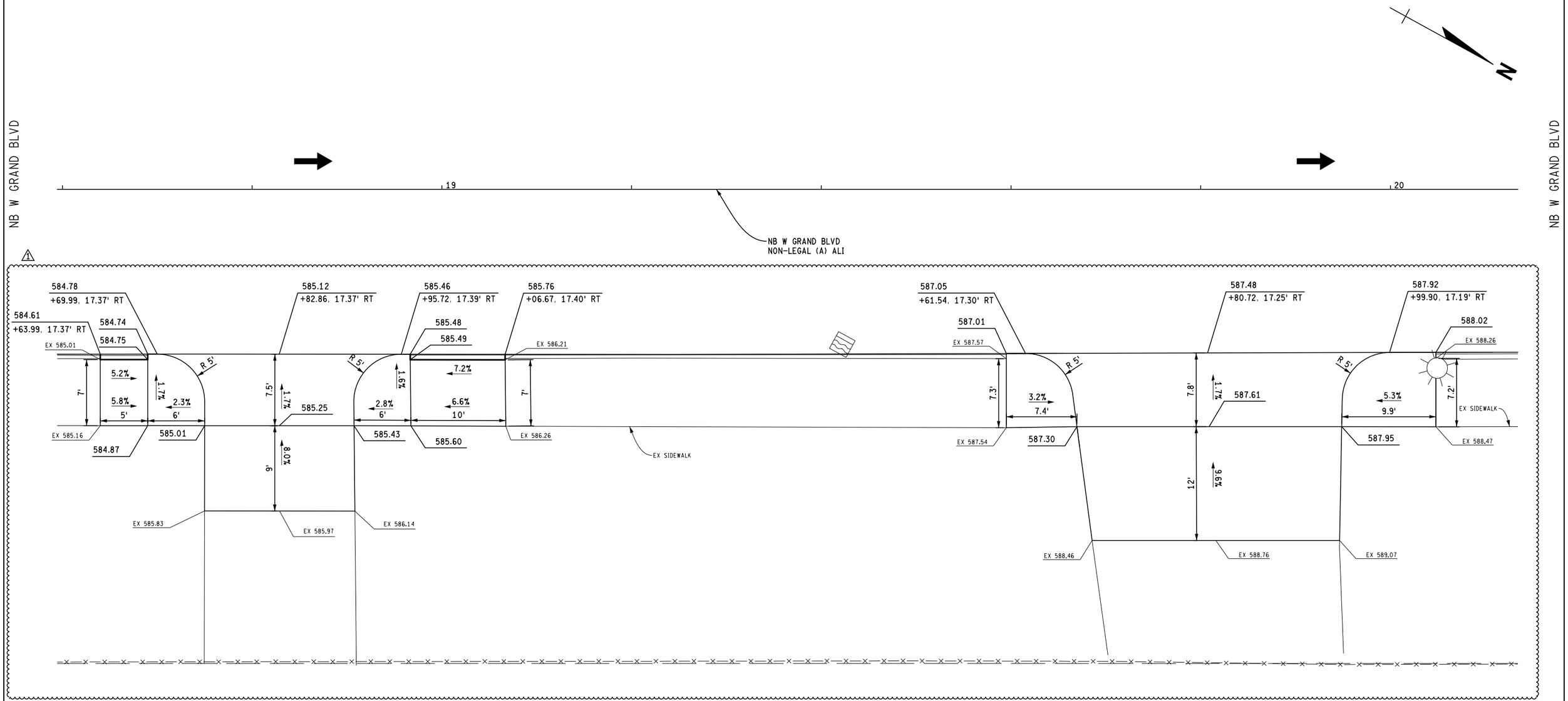
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

GRADING SHEET
RIVERSIDE PARK
NB W GRAND BLVD STA 18+08 DRIVEWAY

DRAWING: RIV DETGRD 005

SHEET: 84



NOTES:

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FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION
1	06/04/21		DRIVEWAY GRADE UPDATES				

wsp

City of Detroit

0 HORZ. (FT) 10

FILE:

DATE: 05/24/21

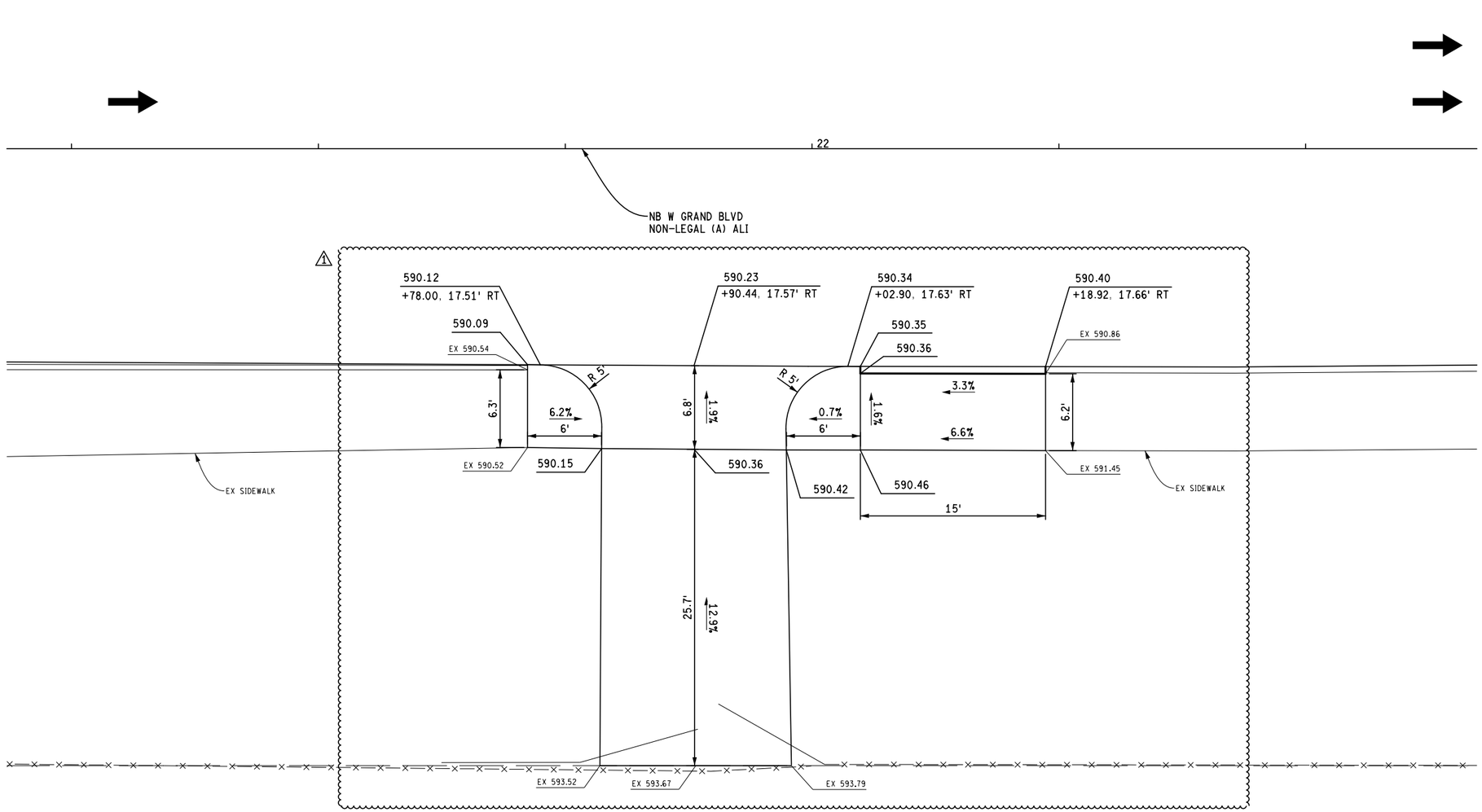
JN: PW-7031
RIVERSIDE PARK

GRADING SHEET
RIVERSIDE PARK
NB W GRAND BLVD DRIVEWAYS

DRAWING: RIV DETGRD 006

SHEET: 85

NB W GRAND BLVD



NB W GRAND BLVD

NOTES:

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FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION
1	06/04/21		DRIVEWAY GRADE UPDATES				

wsp

Detroit

0 HORZ. (FT) 10

FILE:

DATE: 05/24/21

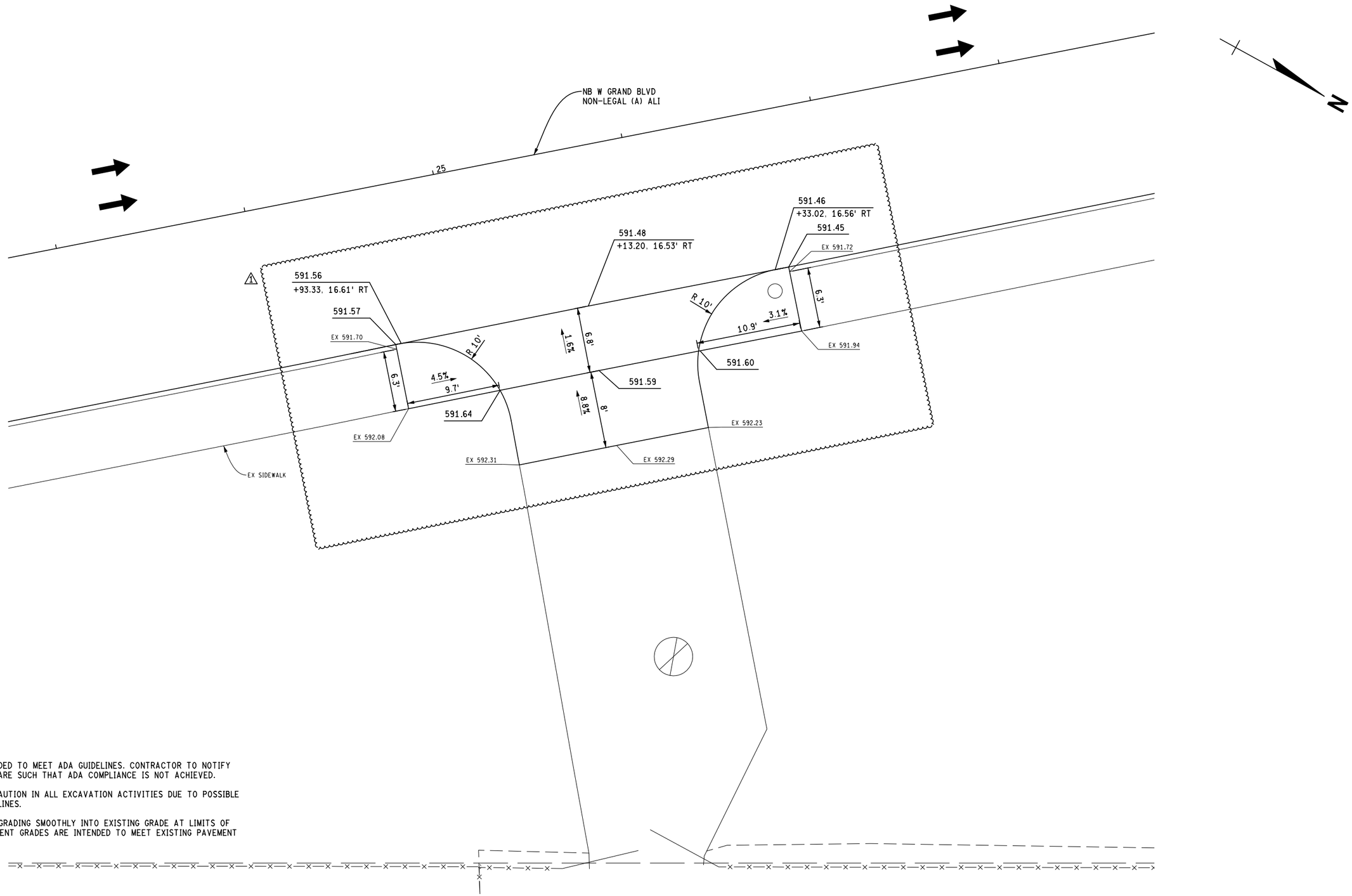
JN: PW-7031
RIVERSIDE PARK

GRADING SHEET
RIVERSIDE PARK
NB W GRAND BLVD STA 21+90 DRIVEWAY

DRAWING: RIV DETGRD 007

SHEET: 86

NB W GRAND BLVD



NB W GRAND BLVD

NOTES:

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FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION
1	06/04/21		DRIVEWAY GRADE UPDATES				

wsp

Detroit

0 HORZ. (FT) 10

FILE:

DATE: 05/24/21

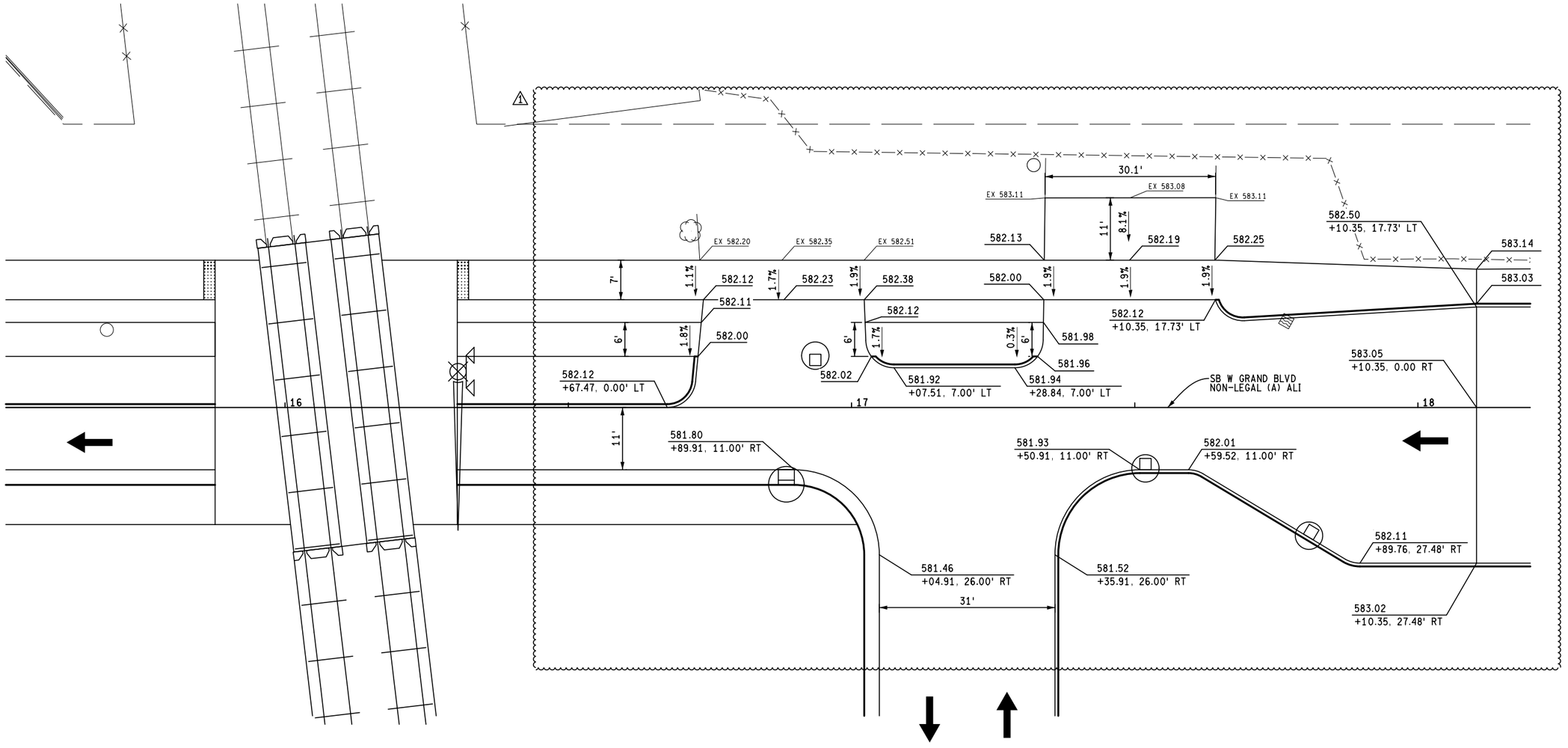
JN: PW-7031
RIVERSIDE PARK

GRADING SHEET
RIVERSIDE PARK
NB W GRAND BLVD STA 25+13 DRIVEWAY

DRAWING: RIV DETGRD 008

SHEET: 87

CSX RR



NOTES:

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CSX RR

W JEFFERSON AVE

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION
1	06/04/21		DRIVEWAY GRADE UPDATES				

wsp

Detroit

0 HORZ. (FT) 20

DATE: 05/24/21

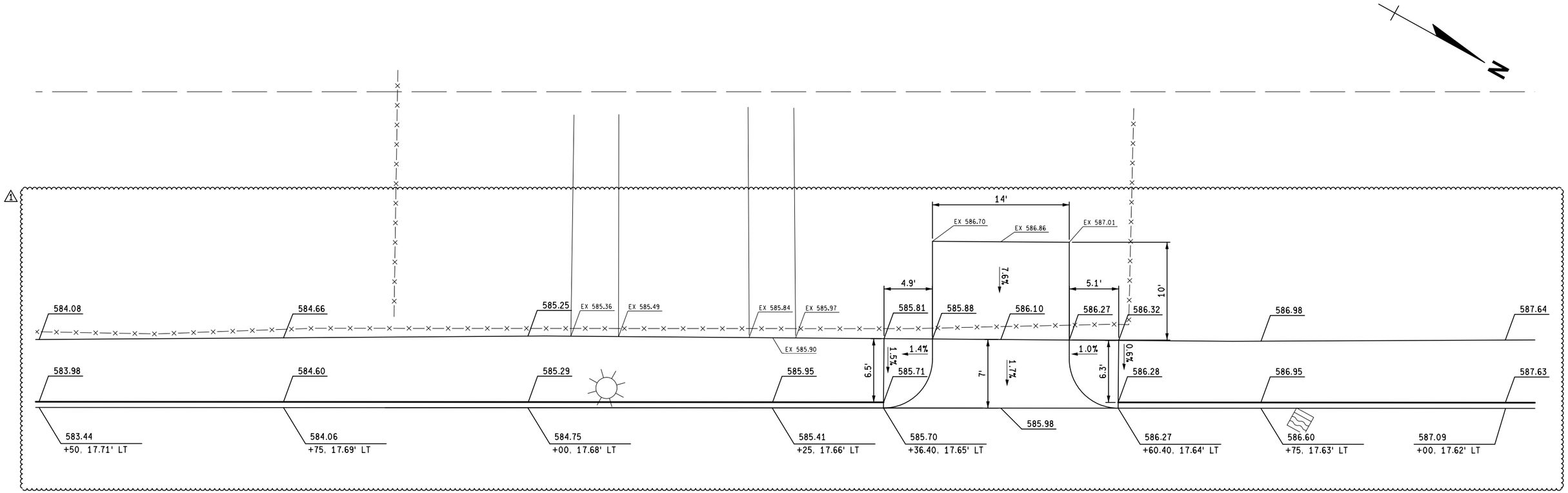
FILE:

JN: PW-7031
RIVERSIDE PARK

GRADING SHEET
RIVERSIDE PARK
SB W GRAND BLVD STA 15+50 TO STA 18+25

DRAWING: RIV DETGRD 009

SHEET: 88



NOTES:

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FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION
1	06/04/21		DRIVEWAY GRADE UPDATES				

wsp

City of Detroit

0 HORZ. (FT) 10

FILE:

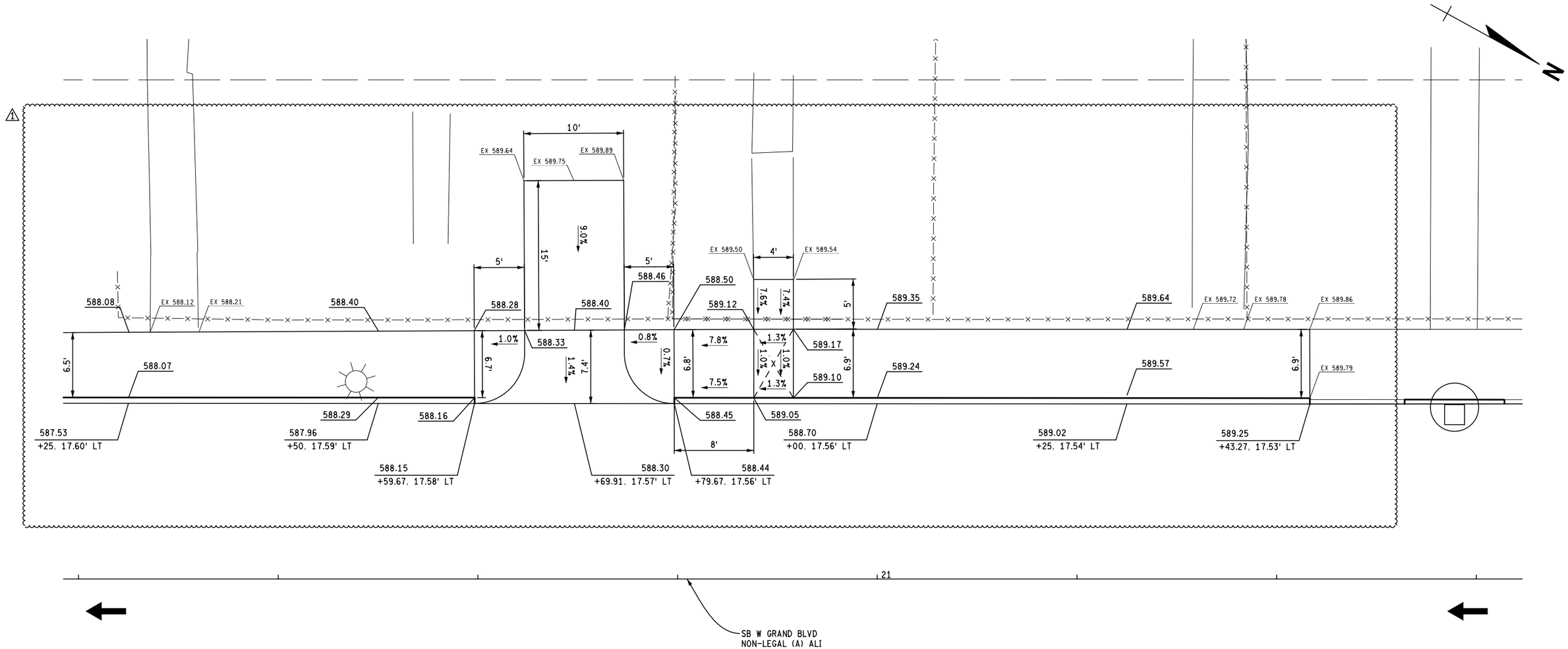
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

GRADING SHEET
RIVERSIDE PARK
SB W GRAND BLVD STA 19+50 DRIVEWAY

DRAWING: RIV DETGRD 010

SHEET: 89



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FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION
1	06/04/21		DRIVEWAY GRADE UPDATES				

wsp

City of Detroit

0 HORZ. (FT) 10

FILE:

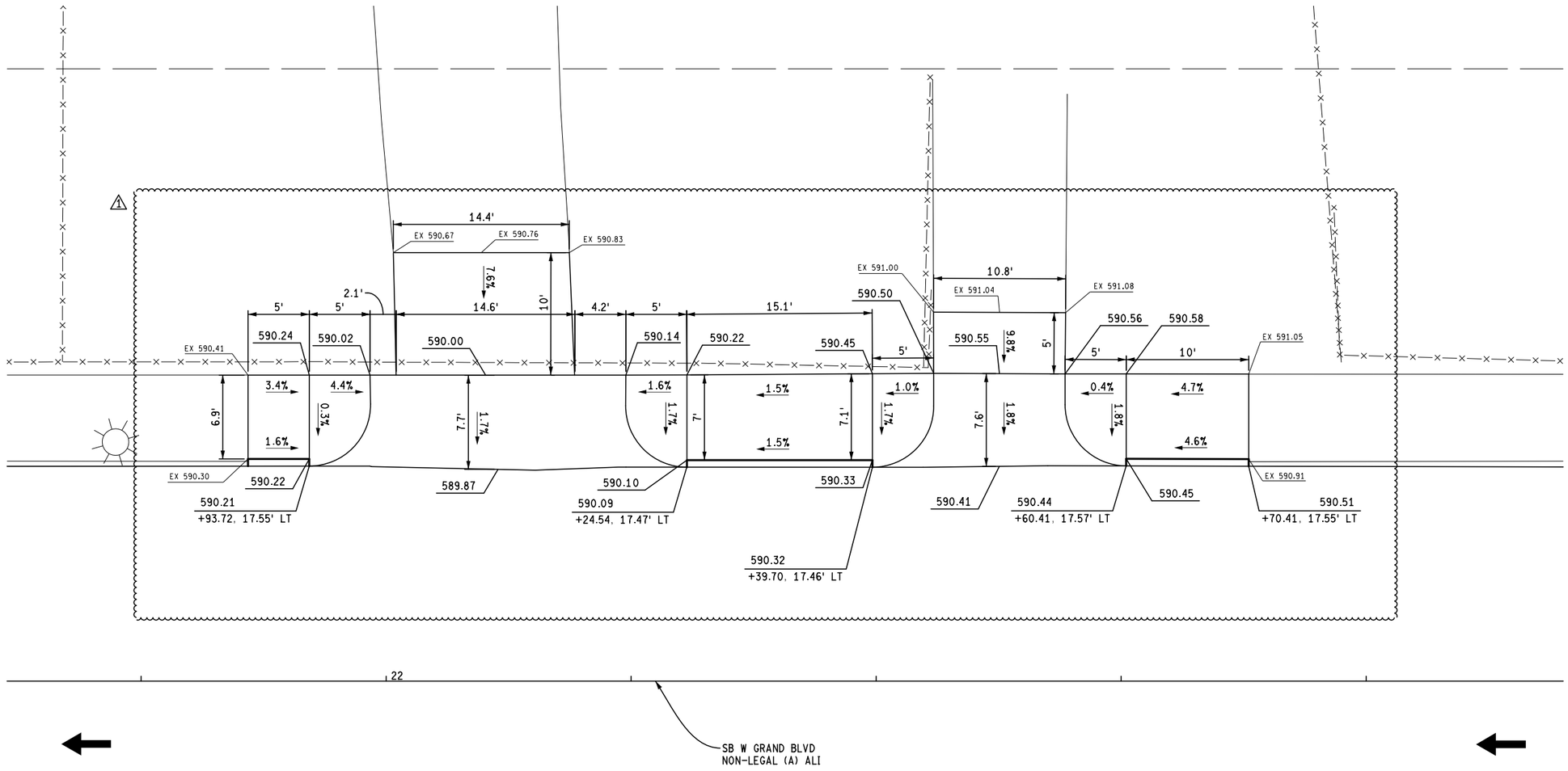
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

GRADING SHEET
RIVERSIDE PARK
SB W GRAND BLVD STA 20+25 TO 21+25

DRAWING: RIV DETGRD 011

SHEET: 90



NOTES:

ALL AREAS ARE DESIGNED AND INTENDED TO MEET ADA GUIDELINES. CONTRACTOR TO NOTIFY ENGINEER IF THE FIELD CONDITIONS ARE SUCH THAT ADA COMPLIANCE IS NOT ACHIEVED.

THE CONTRACTOR SHALL EXERCISE CAUTION IN ALL EXCAVATION ACTIVITIES DUE TO POSSIBLE EXISTENCE OF UNRECORDED UTILITY LINES.

THE CONTRACTOR SHALL BLEND NEW GRADING SMOOTHLY INTO EXISTING GRADE AT LIMITS OF GRADING WORK. THE PROPOSED PAVEMENT GRADES ARE INTENDED TO MEET EXISTING PAVEMENT ELEVATIONS FLUSH.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION
1	06/04/21		DRIVEWAY GRADE UPDATES				

wsp

City of Detroit

0 HORZ. (FT) 10

FILE:

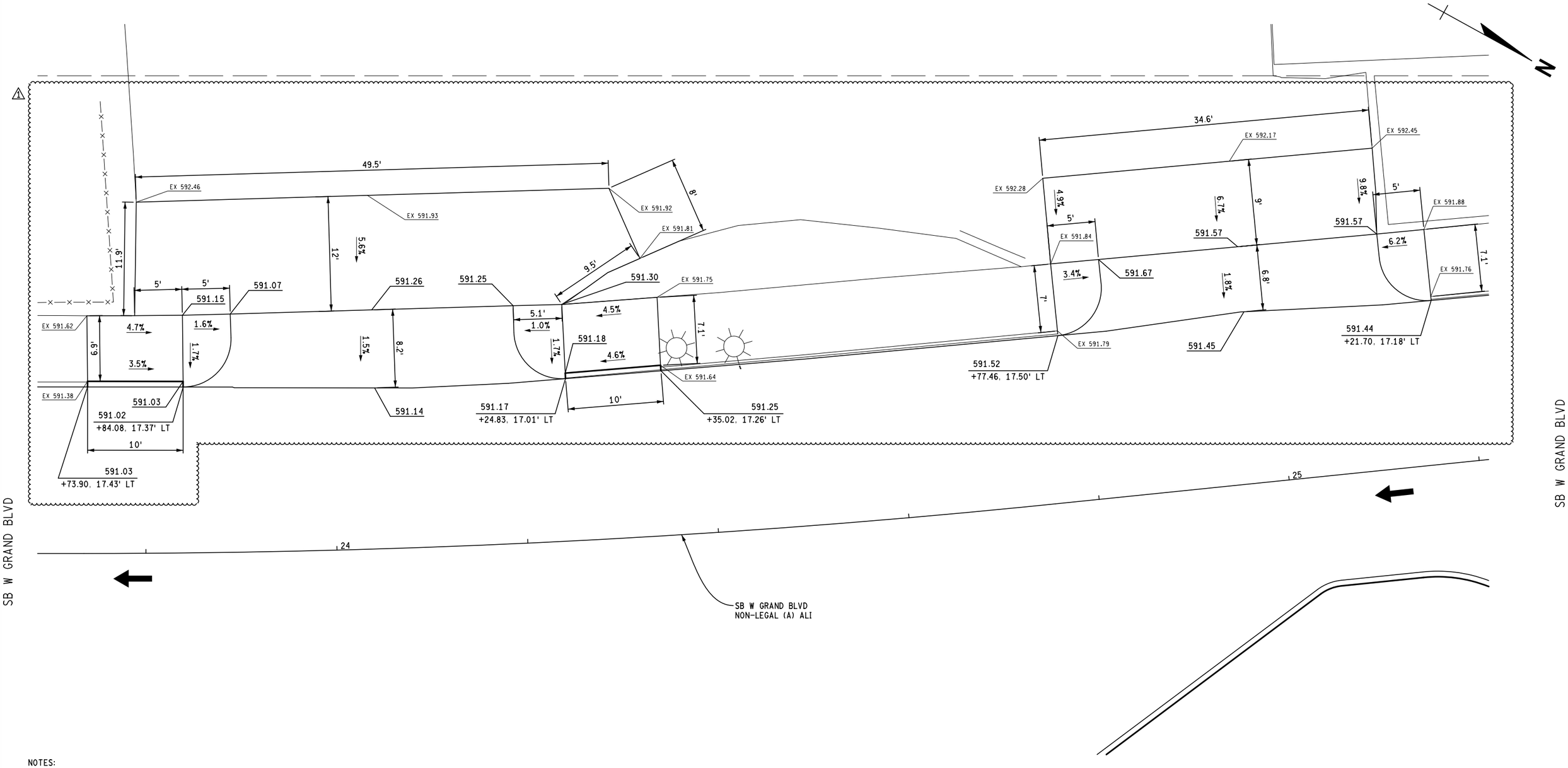
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

GRADING SHEET
RIVERSIDE PARK
SB W GRAND BLVD STA 21+75 TO 22+75

DRAWING: RIV DETGRD 012

SHEET: 91



NOTES:

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FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

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City of Detroit

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FILE:

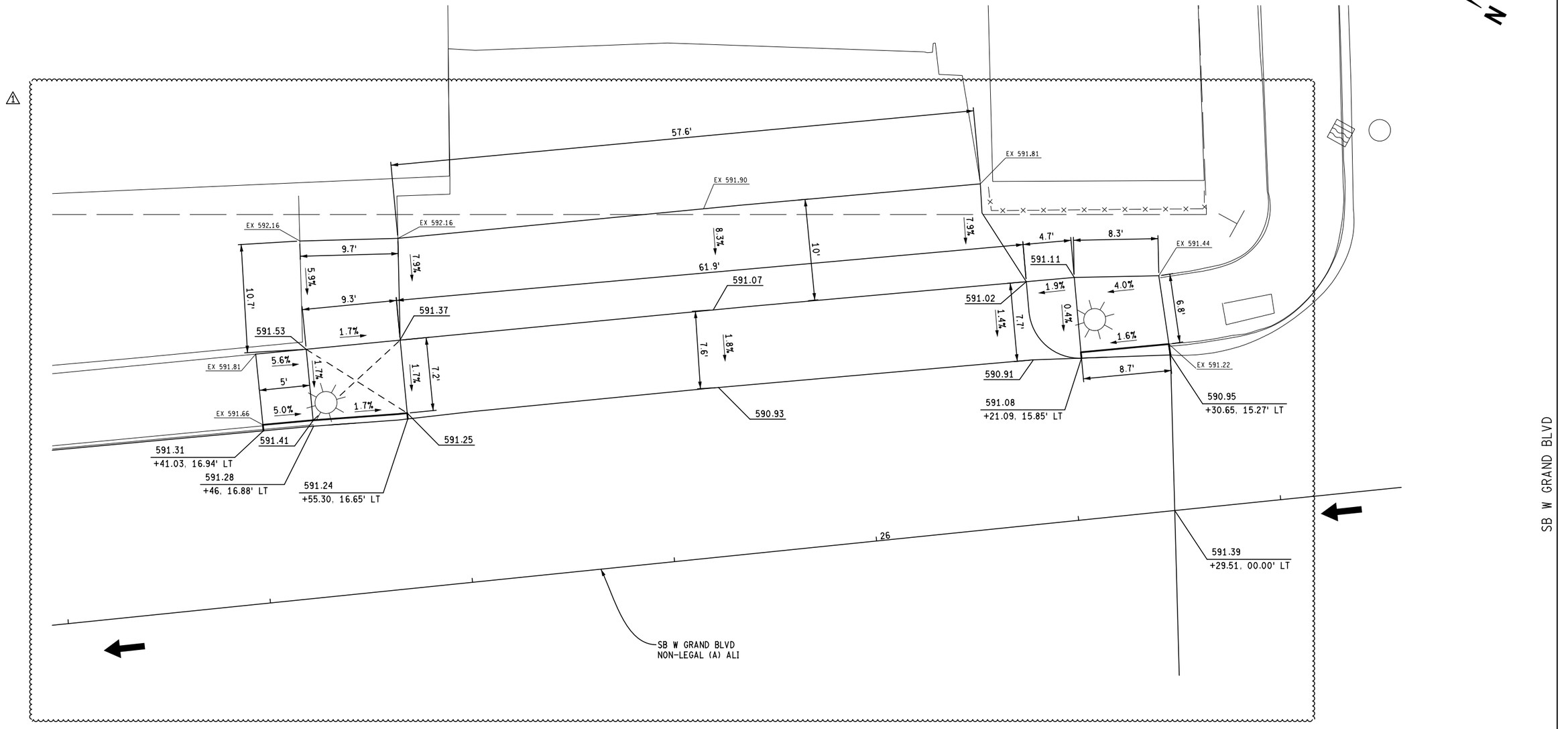
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

GRADING SHEET
RIVERSIDE PARK
SB W GRAND BLVD STA 23+75 TO 25+25

DRAWING: RIV DETGRD 013

SHEET: 92



NOTES:

ALL AREAS ARE DESIGNED AND INTENDED TO MEET ADA GUIDELINES. CONTRACTOR TO NOTIFY ENGINEER IF THE FIELD CONDITIONS ARE SUCH THAT ADA COMPLIANCE IS NOT ACHIEVED.

THE CONTRACTOR SHALL EXERCISE CAUTION IN ALL EXCAVATION ACTIVITIES DUE TO POSSIBLE EXISTENCE OF UNRECORDED UTILITY LINES.

THE CONTRACTOR SHALL BLEND NEW GRADING SMOOTHLY INTO EXISTING GRADE AT LIMITS OF GRADING WORK. THE PROPOSED PAVEMENT GRADES ARE INTENDED TO MEET EXISTING PAVEMENT ELEVATIONS FLUSH.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

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FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

GRADING SHEET
RIVERSIDE PARK
SB W GRAND BLVD STA 25+25 TO 26+50

DRAWING: RIV DETGRD 014

SHEET: 93

DETROIT RIVER

W JEFFERSON AVE

W GRAND BLVD

W GRAND BLVD

SECTION 24
T02S, R11E
CITY OF DETROIT

SECTION 24
T02S, R11E
CITY OF DETROIT

EX 50' ROW

EX 200' ROW

EX 200' ROW

EX 36" OUTFALL (GLWA)

POT=10+00.00

POT=10+00.00

POT=10+00.00

POT=103+76.9

FT=103+35.36

N 28° 51' 06" W

N 28° 51' 06" W

N 61° 08' 54" E

N 1

CONCRETE SIDEWALK

CAUTION - CRITICAL UTILITY

HAZARDOUS OR FLAMMABLE MATERIAL

EX 8" WM (DWSD)

EX 15'-6" SANITARY (DWSD)

EX STORM MAIN (DWSD)

EX STORM MAIN (DWSD)

(2) EQ.

(3) TREE WELL CENTERED IN JOINT PATTERN

DECORATIVE COLORED CONCRETE PAVEMENT, TYP.

(7) BIKE RACK

(5) BOLLARD (TYP.)

DECORATIVE CONCRETE CURB 4"

HAZARDOUS OR FLAMMABLE MATERIAL

OPEN SPACE - SEE LANDSCAPE PLANS

DECORATIVE COLORED CONCRETE PAVEMENT, TYP.

DECORATIVE CONCRETE CURB 4"

STREET LIGHT

(3) COLLAPSIBLE BOLLARD

DECORATIVE COLORED CONCRETE PAVEMENT

PLANTING BED

OPEN SPACE - SEE LANDSCAPE PLANS

LIMIT OF COLORED CONCRETE PAVING

CONCRETE BIKE PATH (PLAIN CONCRETE)

CONCRETE SIDEWALK (PLAIN CONCRETE)

(5) BOLLARD (TYP.)

(28) BOLLARD

(3) TREE WELL CENTERED IN JOINT PATTERN

LIMIT OF COLORED CONCRETE PAVEMENT, TYP.

EQ. TYP.

8' TYP

8' (TYP.)

7.32'

8.35'

24' (TYP.)

16' (TYP.)

8.33'

46.58'

72'

25'

1.32'

37.5'

6'

7' TYP.

7' (TYP.)

16'

8'

GENERAL NOTES

1. SEE ELECTRICAL PLANS FOR LIGHTING COMPONENTS.
2. PROVIDE INTEGRAL DECORATIVE COLORED CONCRETE PAVEMENT WITH ALTERNATING APPLIED COLOR HARDENER STRIPE PATTERN AS INDICATED.
3. PROVIDE 8'X8' SAWCUT JOINT PATTERN THROUGHOUT COLORED CONCRETE AREAS AS INDICATED, UNLESS NOTED OR SHOWN OTHERWISE.
4. BOLLARDS TO BE SPACED AT 8' MAXIMUM SPACING.

SPECIAL LEGEND THIS SHEET

- GRASS REINFORCEMENT
- DECORATIVE COLORED CONCRETE PAVEMENT
- DETECTABLE WARNING SURFACE
- DETECTABLE GUIDE SURFACE
- BIKE RACKS
- BOLLARD
- COLLAPSIBLE BOLLARD
- TRASH RECEPTACLE (BY OTHERS)
- TRASH RECEPTACLE + RECYCLE RECEPTACLE (BY OTHERS)
- BENCH (BY OTHERS)
- TREE WELL (SEE LANDSCAPE PLANS)
- SINGLE ARM STREET LIGHT
- DOUBLE ARM STREET LIGHT
- PAVEMENT JOINT PATTERN

HARDSCAPE QUANTITIES - THIS SHEET

78	Syd	Grass Reinforcement
88	Ft	Detectable Warning Surface, Cast Iron
305	Ft	Detectable Guide Surface, Cast Iron
38	Ea	Bollard
6	Ea	Collapsible Bollard
14	Ea	Bike Rack

DETROIT RIVER

PARKING LOT

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

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City of Detroit

0 HORZ. (FT) 40

FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

HARDSCAPE SHEET
RIVERSIDE PARK
NB W GRAND BLVD POB TO STA 15+00

DRAWING: RIV HRDSCP 001

SHEET: 94

W JEFFERSON AVE

CSX RR

SECTION 24
T02S, R11E
CITY OF DETROIT

EX 60' LA ROW

3830 W GRAND BLVD | 71 W GRAND BLVD | 85 W GRAND BLVD | 89 W GRAND BLVD | 101 W GRAND BLVD

CAUTION – CRITICAL UTILITY

EX UG CONDUIT (WINDSTREAM)

CONCRETE PAD

EX 24" SANITARY (DWSD)

STREET LIGHT

7' (TYP.)

CONCRETE SIDEWALK

CONCRETE BIKE PATH

6' (TYP.)

EX 6" WM (DWSD)

14'

CONCRETE SIDEWALK

N 28° 51' 06" W

16 | 17 | 18 | 19 | 20

8.42' (TYP.)

14' (TYP.)

7' (TYP.)

OPEN SPACE – SEE LANDSCAPE PLANS

EX 15'-6" SANITARY (DWSD)

OPEN SPACE – SEE LANDSCAPE PLANS

OPEN SPACE – SEE LANDSCAPE PLANS

HAZARDOUS OR FLAMMABLE MATERIAL

HAZARDOUS OR FLAMMABLE MATERIAL

EX UG ELECTRIC (DTE)

EX 9'-2" SANITARY (DWSD)

CP 110

W GRAND BLVD

EX 200' ROW

EX 200' ROW

W GRAND BLVD

6' TYP.

CONCRETE BIKE PATH

CONCRETE SIDEWALK

7' TYP.

15 | 16 | N 28° 51' 06" W | 17 | 18 | 19

6' (TYP.) JOINT SPACING

CAUTION – CRITICAL UTILITY

CAUTION – CRITICAL UTILITY

80 W GRAND BLVD

CP 104

EX 8" WM (DWSD)

CAUTION – CRITICAL UTILITY

CAUTION – CRITICAL UTILITY

EX 60' LA ROW

EX 50' ROW

SECTION 24
T02S, R11E
CITY OF DETROIT

CSX RR

W JEFFERSON AVE

GENERAL NOTES

1. SEE ELECTRICAL DRAWINGS FOR LIGHTING COMPONENTS.

SPECIAL LEGEND THIS SHEET

- GRASS REINFORCEMENT
- PAVEMENT JOINT PATTERN
- DETECTABLE WARNING PAVER
- SINGLE ARM STREET LIGHT
- DOUBLE ARM STREET LIGHT

HARDSCAPE QUANTITIES – THIS SHEET

183	Syd	Grass Reinforcement
48	Ft	Detectable Warning Surface, Cast Iron

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

City of Detroit

0 HORZ. (FT) 40

FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

HARDSCAPE SHEET
RIVERSIDE PARK
NB W GRAND BLVD STA 15+00 TO STA 20+00

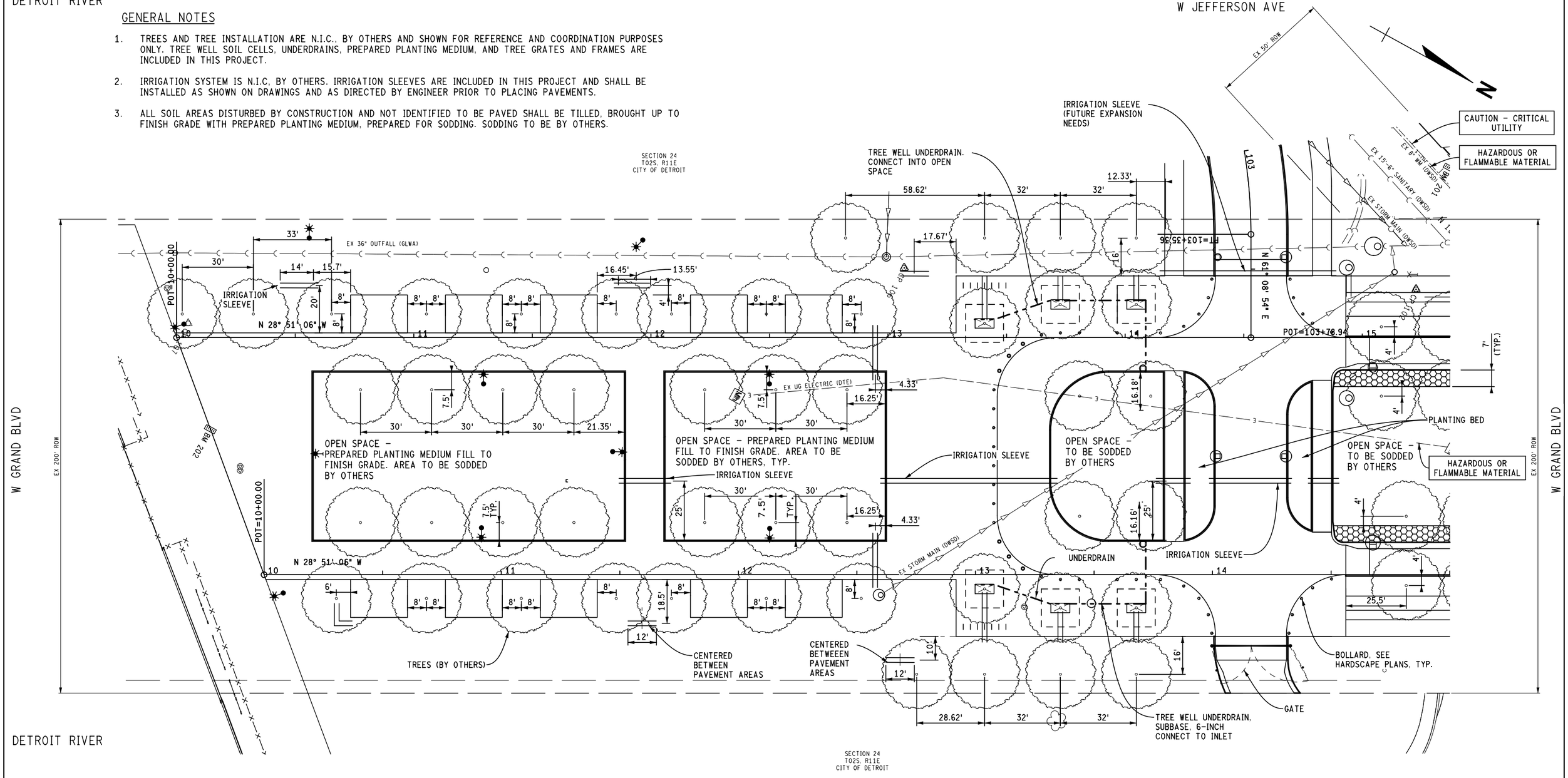
DRAWING: RIV HRDSCP 002

SHEET: 95

DETROIT RIVER

GENERAL NOTES

1. TREES AND TREE INSTALLATION ARE N.I.C., BY OTHERS AND SHOWN FOR REFERENCE AND COORDINATION PURPOSES ONLY. TREE WELL SOIL CELLS, UNDERDRAINS, PREPARED PLANTING MEDIUM, AND TREE GRATES AND FRAMES ARE INCLUDED IN THIS PROJECT.
2. IRRIGATION SYSTEM IS N.I.C, BY OTHERS. IRRIGATION SLEEVES ARE INCLUDED IN THIS PROJECT AND SHALL BE INSTALLED AS SHOWN ON DRAWINGS AND AS DIRECTED BY ENGINEER PRIOR TO PLACING PAVEMENTS.
3. ALL SOIL AREAS DISTURBED BY CONSTRUCTION AND NOT IDENTIFIED TO BE PAVED SHALL BE TILLED, BROUGHT UP TO FINISH GRADE WITH PREPARED PLANTING MEDIUM, PREPARED FOR SODDING. SODDING TO BE BY OTHERS.



SPECIAL LEGEND THIS SHEET

- TREE LOCATION (TREES BY OTHERS)
- GRASS REINFORCEMENT
- TREE PIT UNDERDRAIN
- IRRIGATION SLEEVE
- TREE WELL WITH TREE GRATE
- SOIL CELL SYSTEM SURROUNDING TREE WELL

LANDSCAPE QUANTITIES – THIS SHEET

6	Ea	Tree Grate
1302	Cyd	Prepared Planting Medium
472	Ft	Conduit, Schedule 40, 2 inch
472	Ft	Conduit, Schedule 40, 4 inch
171	Syd	Soil Cell System
191	Ft	Underdrain, Subbase, 6 inch
228	Ft	Watering – Aeration Pipe, 4-inch

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp | City of Detroit | 0 HORZ. (FT) 40

FILE:	DATE: 05/24/21	JN: PW-7031 RIVERSIDE PARK	LANDSCAPE SHEET	DRAWING	SHEET
			RIVERSIDE PARK	RIV LNDS 001	96
			NB W GRAND BLVD POB TO STA 15+00		

W JEFFERSON AVE

CSX RR

GENERAL NOTES

1. TREES AND TREE INSTALLATION ARE N.I.C., BY OTHERS AND SHOWN FOR REFERENCE AND COORDINATION PURPOSES ONLY. TREE WELL SOIL CELLS, UNDERDRAINS, PREPARED PLANTING MEDIUM, AND TREE GRATES AND FRAMES ARE INCLUDED IN THIS PROJECT. TREES AT FULL GROWTH MUST BE A MINIMUM OF 25 FEET FROM THE NEAREST RAILROAD TRACK CENTERLINE.
2. IRRIGATION SYSTEM IS N.I.C. BY OTHERS. IRRIGATION SLEEVES ARE INCLUDED IN THIS PROJECT AND SHALL BE INSTALLED AS SHOWN ON DRAWINGS AND AS DIRECTED BY ENGINEER PRIOR TO PLACING PAVEMENTS.
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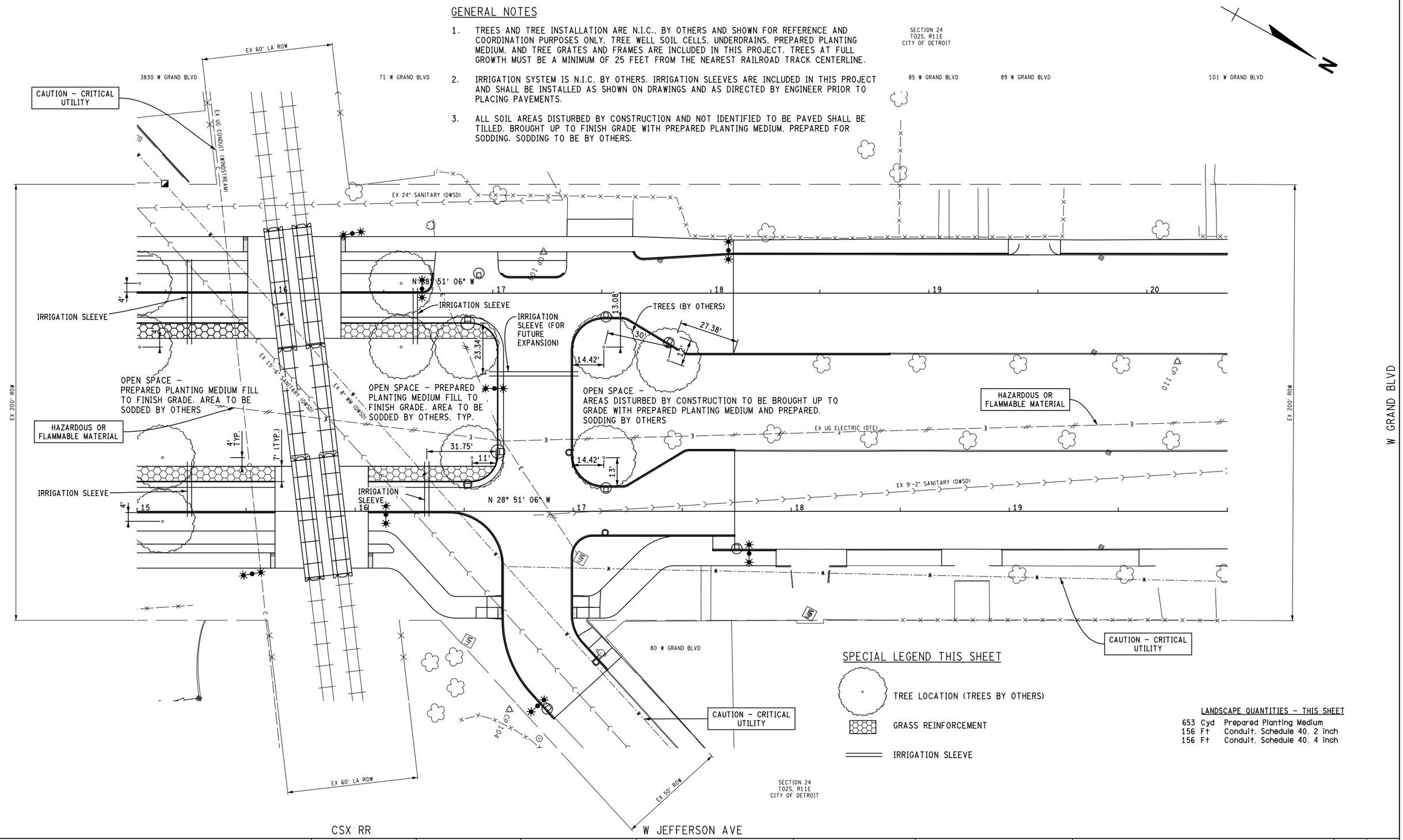

SPECIAL LEGEND THIS SHEET

- TREE LOCATION (TREES BY OTHERS)
- GRASS REINFORCEMENT
- IRRIGATION SLEEVE

LANDSCAPE QUANTITIES – THIS SHEET

653	Cyd	Prepared Planting Medium
156	Ft	Conduit, Schedule 40, 2 inch
156	Ft	Conduit, Schedule 40, 4 inch

CSX RR

W JEFFERSON AVE

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

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Detroit

0 HORZ. (FT) 40

FILE:

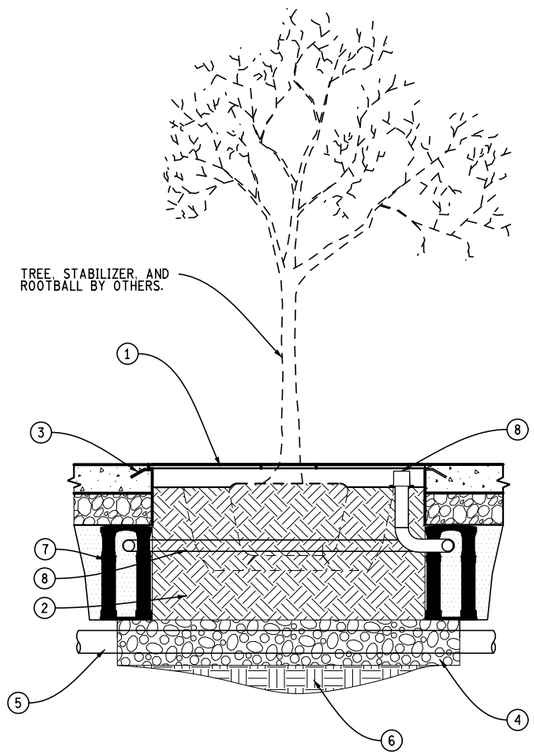
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

LANDSCAPE SHEET
RIVERSIDE PARK
NB W GRAND BLVD STA 15+00 TO STA 20+00

DRAWING: RIV LNDS 002

SHEET: 97

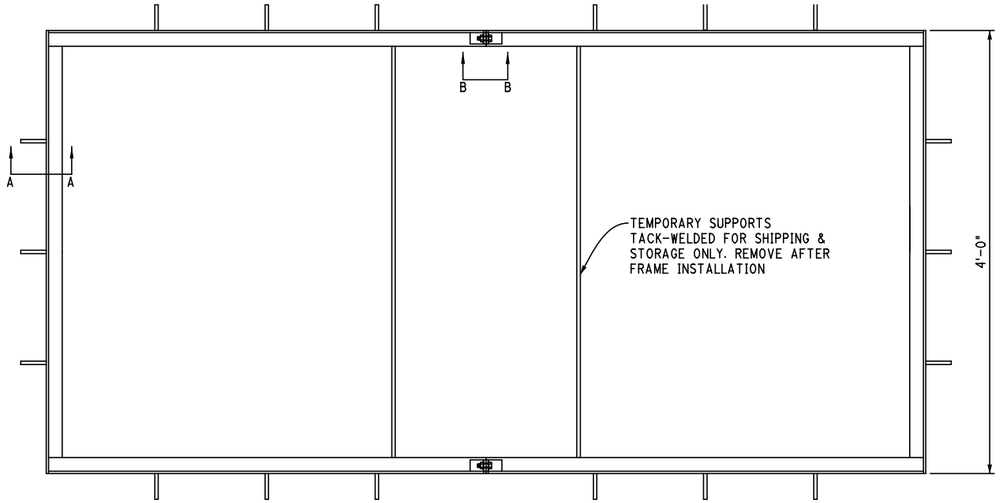


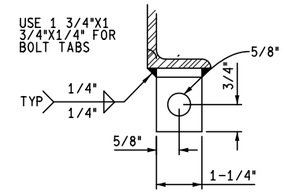
NOTES:
CONTRACTOR TO EXCAVATE AND DISPOSE OF EXISTING TREE WELL SOIL TO REQUIRED EXTENTS. LEGALLY DISPOSE OF MATERIAL OFF SITE.

1. TREE GRATE AND FRAME AS SPECIFIED. SEE TYP. DET
2. PREPARED PLANTING MEDIUM
3. CAST IN PLACE FRAME WITH ANCHOR SUPPLIED WITH TREE GRATE
4. 12" HEIGHT X 18" WIDE AGGREGATE 6A WRAPPED WITH FILTER FABRIC SURROUNDS UNDERDRAIN, TYPICAL.
5. UNDERDRAIN, SUBBASE, 6" CONNECT TO CURB INLET. SEE LANDSCAPE PLANS
6. COMPACTED SUBGRADE
7. SOIL CELL SYSTEM
8. WATERING-AERATION PIPE RING AND VERTICAL PORT WITH SCREEN. 4" DIA. PERFORATED PVC IN FILTER SOCK

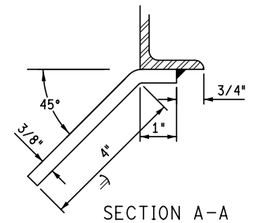
1 TREE WELL DETAIL

NOT TO SCALE



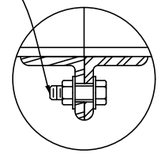


BOLT TAB DETAIL

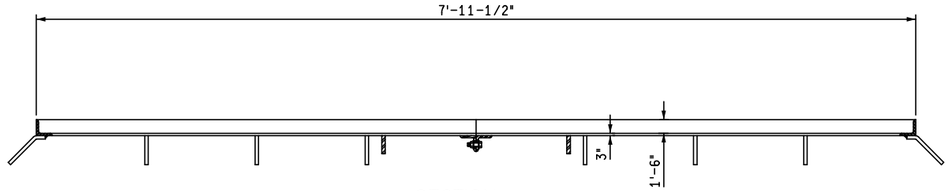


SECTION A-A

(2) 3/8"-16 X 1 1/4" SS HX HD BOLTS W/NUTS AND WASHERS. BY CONTRACTOR



SECTION B-B



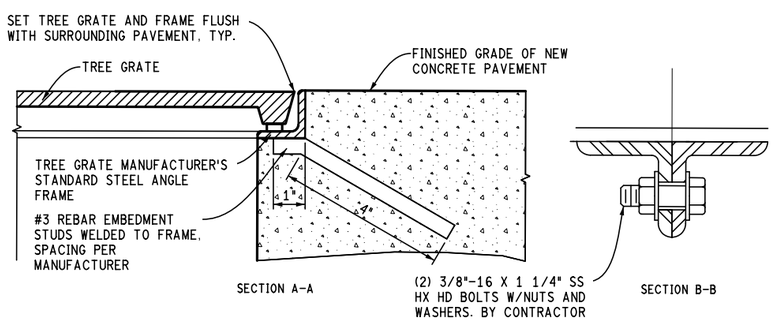
SECTION

NOTES:

1. ALL COMPONENTS SHALL CONFORM TO ASTM A36.
2. ENTIRE FRAME SHALL HAVE A FLAT BLACK RUSTOLEUM COATING.
3. PARTS TO HAVE PRODUCT NUMBER IDENTIFICATION.
4. UNLESS OTHERWISE SPECIFIED AND/OR INDICATED, FABRICATION TOLERANCES SHALL BE +/-1/16".

2 TREE GRATE FRAME DETAIL

NOT TO SCALE



3 TREE GRATE FRAME ANCHOR DETAIL

NOT TO SCALE

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

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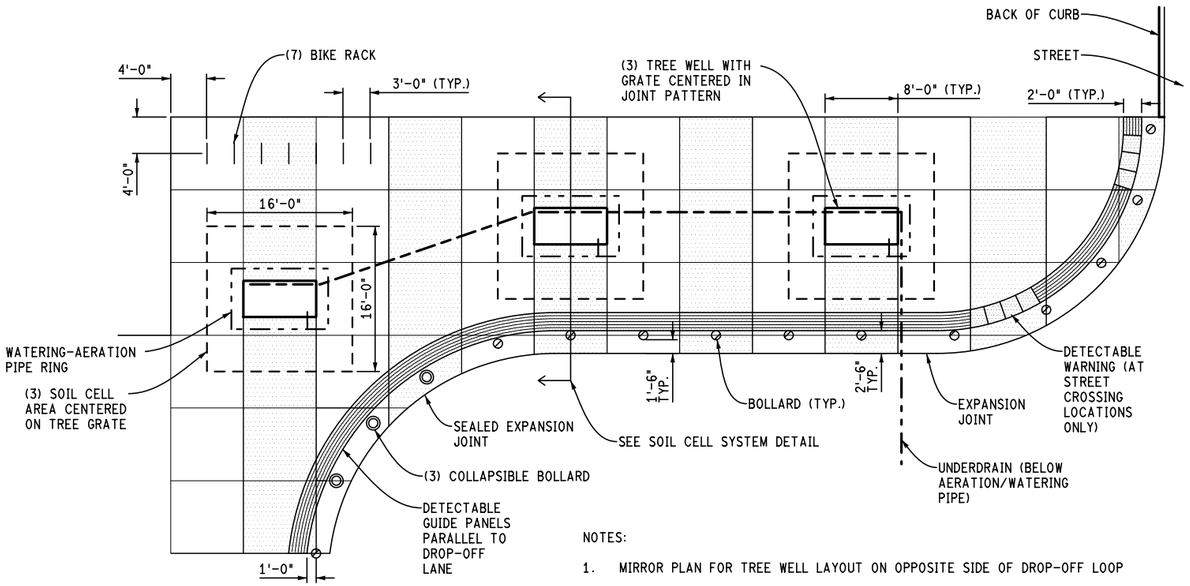
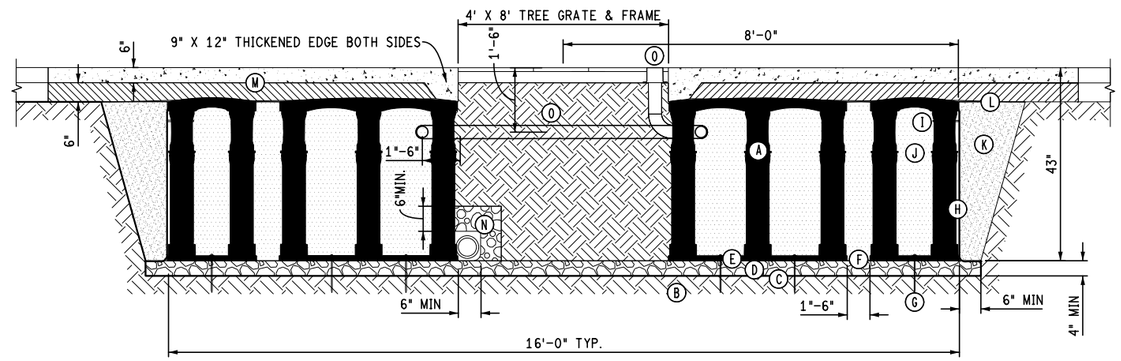


NOTES:

1. MIRROR PLAN FOR TREE WELL LAYOUT ON OPPOSITE SIDE OF DROP-OFF LOOP

1 TREE WELL AREA ENLARGEMENT

NOT TO SCALE

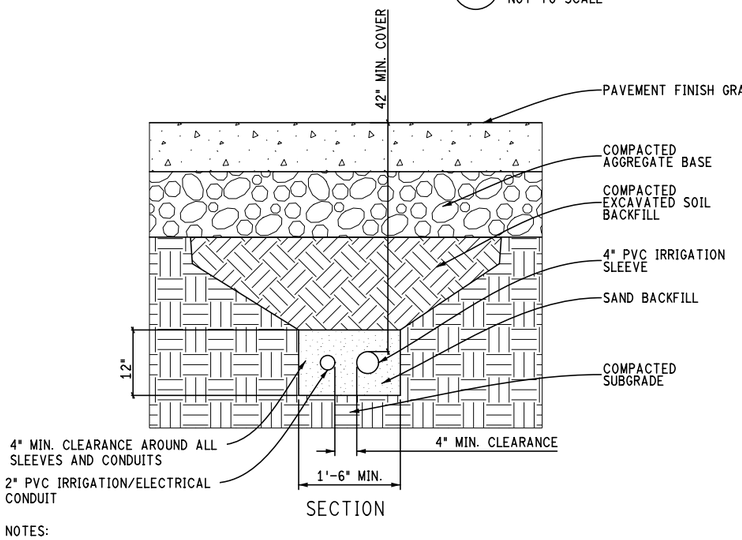


KEY PLAN

- (A) SOIL CELL SYSTEM (DECK, BASE, AND POSTS)
- (B) COMPACTED SUBGRADE
- (C) GEOTEXTILE FABRIC, PLACED ABOVE SUBGRADE
- (D) 4" MIN AGGREGATE SUB BASE, COMPACTED TO 95% PROCTOR
- (E) SOIL CELL BASE SLOPE, 10% MAX
- (F) 1" TO 6" SPACING BETWEEN SOIL CELLS AT BASE
- (G) ANCHORING SPIKES
- (H) GEOGRID, WRAPPED AROUND PERIMETER OF SYSTEM, WITH 6" TOE (OUTWARD FROM BASE) AND 12" EXCESS (OVER TOP OF DECK)
- (I) CABLE TIE, ATTACHING GEOGRID TO SOIL CELL AT BASE OF UPPER LEG FLARE
- (J) PREPARED PLANTING MEDIUM, PER PROJECT SPECIFICATIONS, PLACED IN LIFTS AND WALK-IN COMPACTED TO 75-85% PROCTOR
- (K) COMPACTED BACKFILL, PER PROJECT SPECIFICATIONS
- (L) GEOTEXTILE FABRIC TO EDGE OF EXCAVATION
- (M) PAVEMENT AND AGGREGATE BASE
- (N) 6" DIA. PERFORATED PVC UNDERDRAIN PIPE
- (O) WATERING-AERATION PIPE, 4" DIA. PERFORATED PVC IN FILTER SOCK. SURROUNDS TREE WELL PERIMETER

2 SOIL CELL SYSTEM

NOT TO SCALE



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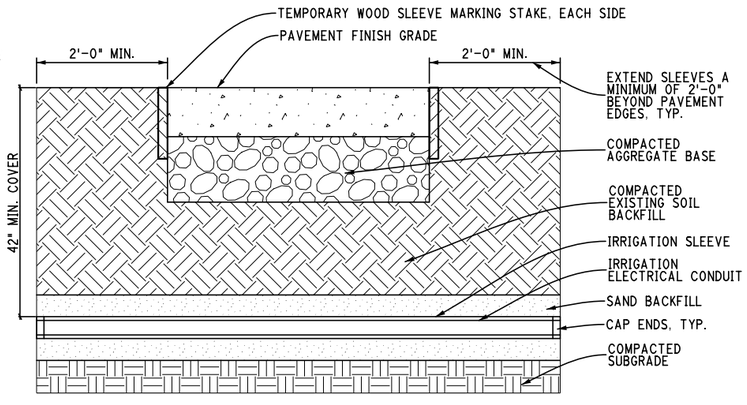


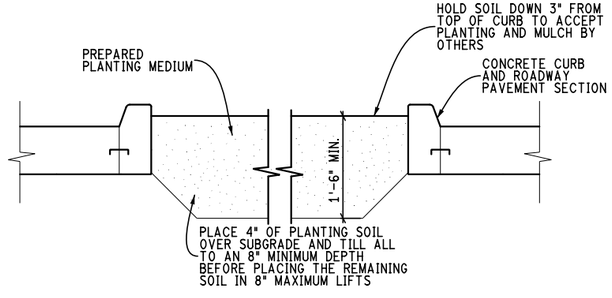
SECTION

NOTES:

1. AT EACH SLEEVE LOCATION, PROVIDE ONE 2" PVC IRRIGATION/ELECTRICAL CONDUIT AND ONE 4" PVC IRRIGATION SLEEVE.
2. ALL JOINTS SHALL BE WATERTIGHT.
3. INSTALL A TEMPORARY CAP ON THE ENDS OF SLEEVES AND CONDUIT FOR PROTECTION UNTIL READY FOR USE.
4. BACKFILL OVER SLEEVES AND CONDUIT INSTALLED IN TRENCHES AND COMPACT TO 95% PROCTOR.
5. STAKE AND FLAG SLEEVE LOCATIONS FLUSH WITH SIDEWALK.

3 PLANTING BED DETAIL

NOT TO SCALE



4 IRRIGATION SLEEVE DETAIL

NOT TO SCALE

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

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Detroit

NO SCALE

DATE: 05/24/21

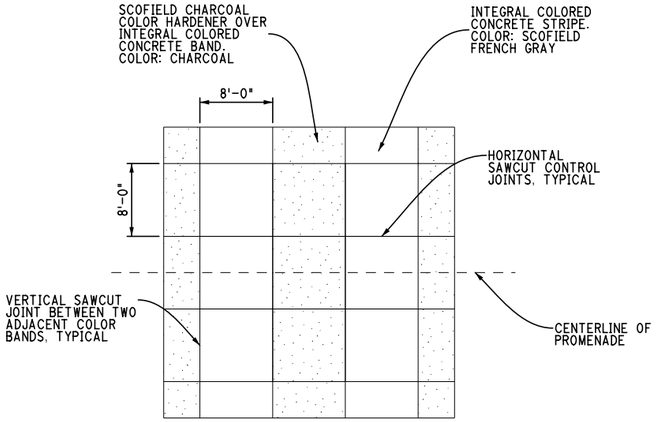
FILE:

JN: PW-7031
RIVERSIDE PARK

LANDSCAPE DETAILS
RIVERSIDE PARK

DRAWING: RIV LNDS 004

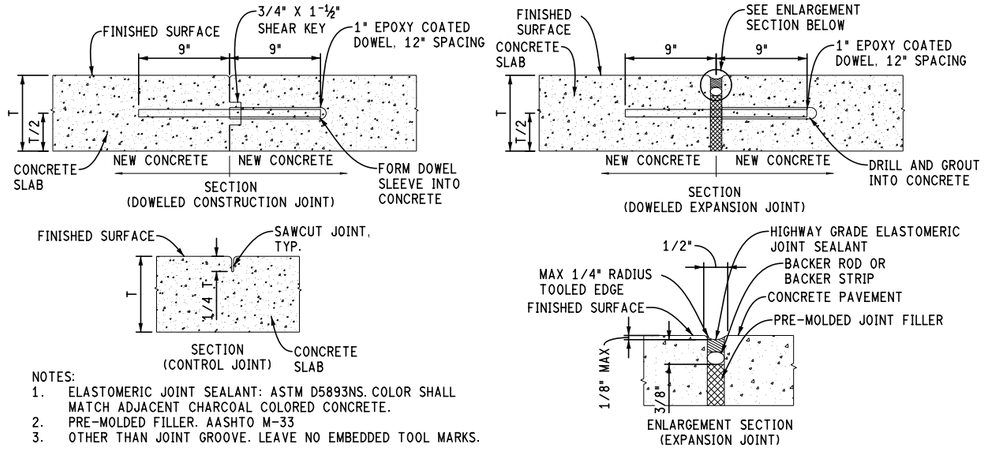
SHEET: 99



NOTES:
1. PROVIDE INTEGRAL SCOFIELD FRENCH GRAY COLORED CONCRETE BASE WITH SCOFIELD CHARCOAL COLOR HARDENER STRIPES PER PLAN.
2. ALTERNATE PAVEMENT COLORS TO FORM COLORED STRIPES PERPENDICULAR TO PROMENADE PAVEMENT.
3. ALL CONCRETE SHALL BE INTEGRALLY COLORED SCOFIELD FRENCH GRAY.
4. ALL PAVEMENT CONTROL JOINTS SHALL BE KEYED AND DOWELED. SEE CONCRETE JOINT DETAILS.
5. APPLY A LIGHT BROOM FINISH ON ALL EXPOSED FINISHED CONCRETE SURFACES.

1 TYPICAL CONCRETE PAVING PATTERN

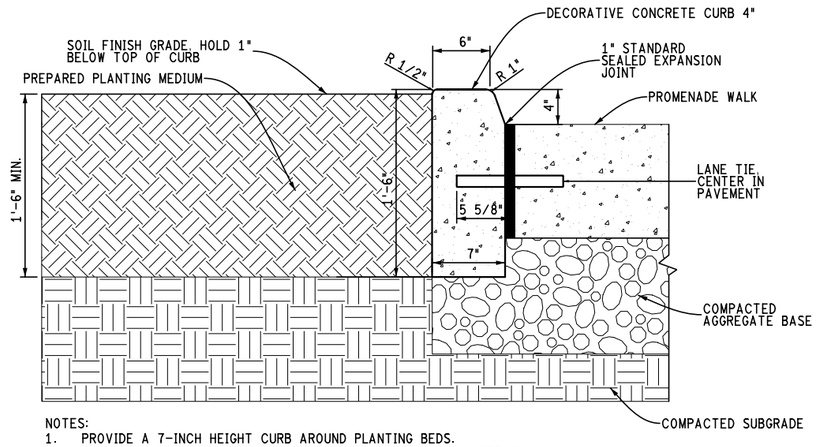
NOT TO SCALE



NOTES:
1. ELASTOMERIC JOINT SEALANT: ASTM D5893NS. COLOR SHALL MATCH ADJACENT CHARCOAL COLORED CONCRETE.
2. PRE-MOLDED FILLER. AASHTO M-33
3. OTHER THAN JOINT GROOVE. LEAVE NO EMBEDDED TOOL MARKS.

2 CONCRETE JOINT DETAILS

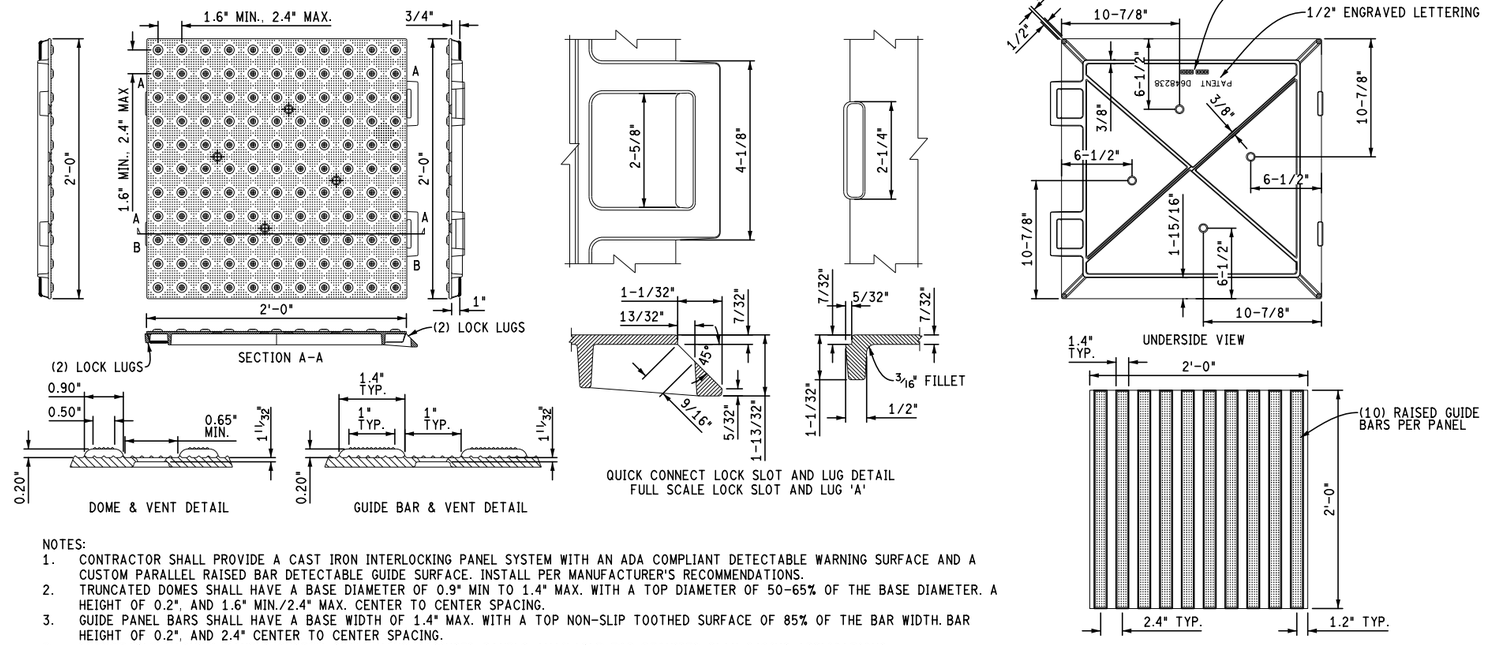
NOT TO SCALE



NOTES:
1. PROVIDE A 7-INCH HEIGHT CURB AROUND PLANTING BEDS. PROVIDE A DECORATIVE 4-INCH HEIGHT CURB AROUND LAWN AREAS.
2. PROVIDE A LIGHT BROOM FINISH TO ALL EXPOSED CONCRETE PARALLEL CURB DIRECTION.

3 CONCRETE CURB DETAIL

NOT TO SCALE



NOTES:
1. CONTRACTOR SHALL PROVIDE A CAST IRON INTERLOCKING PANEL SYSTEM WITH AN ADA COMPLIANT DETECTABLE WARNING SURFACE AND A CUSTOM PARALLEL RAISED BAR DETECTABLE GUIDE SURFACE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. TRUNCATED DOMES SHALL HAVE A BASE DIAMETER OF 0.9" MIN TO 1.4" MAX. WITH A TOP DIAMETER OF 50-65% OF THE BASE DIAMETER. A HEIGHT OF 0.2", AND 1.6" MIN./2.4" MAX. CENTER TO CENTER SPACING.
3. GUIDE PANEL BARS SHALL HAVE A BASE WIDTH OF 1.4" MAX. WITH A TOP NON-SLIP TOOTHED SURFACE OF 85% OF THE BAR WIDTH. BAR HEIGHT OF 0.2", AND 2.4" CENTER TO CENTER SPACING.
3. DETECTABLE WARNING PANELS SYSTEM SHALL HAVE RADIUSED PANELS AVAILABLE FOR REQUIRED PLAN RADIUS APPLICATIONS.
4. SUBMIT SHOP DRAWINGS OF PANEL SYSTEM LAYOUT TO CONFIRM LOCATION OF DETECTABLE WARNING PANELS AND DETECTABLE GUIDE PANELS.

4 DETECTABLE WARNING AND GUIDE SURFACE DETAILS

NOT TO SCALE

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

Detroit

NO SCALE

DATE: 05/24/21

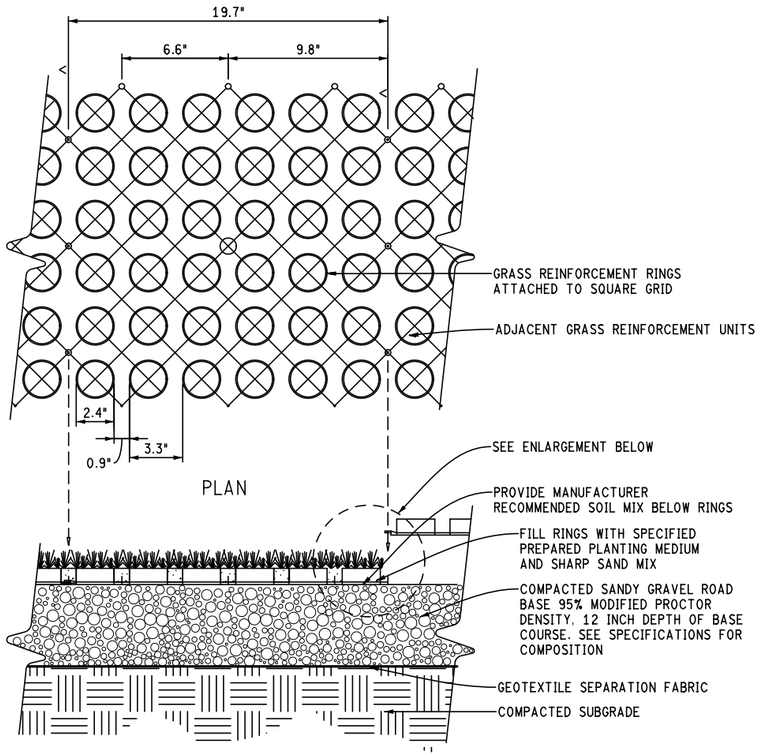
FILE:

JN: PW-7031
RIVERSIDE PARK

LANDSCAPE DETAILS
RIVERSIDE PARK

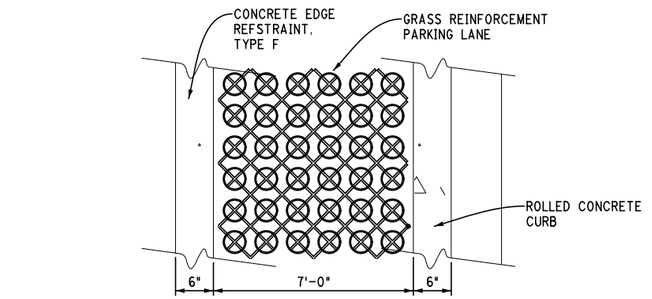
DRAWING: RIV LNDS 005

SHEET: 100



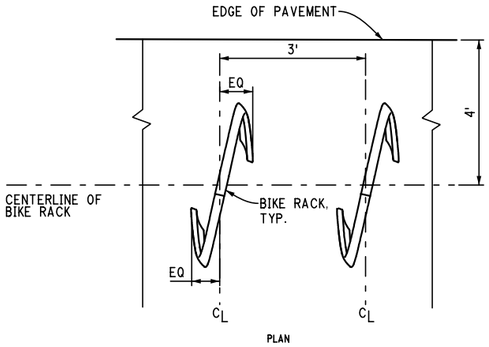
1 GRASS REINFORCEMENT TYPICAL DETAIL

NOT TO SCALE



2 GRASS REINFORCEMENT ENLARGEMENT

NOT TO SCALE

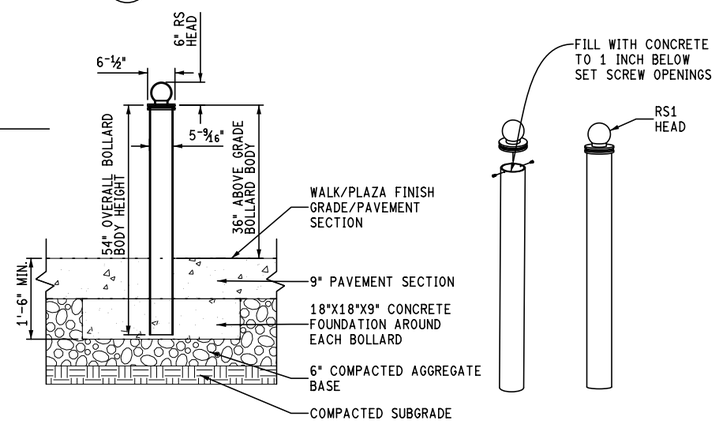


NOTES:

1. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. MARK BIKE RACK LOCATION FOR ENGINEER APPROVAL PRIOR TO INSTALLATION.
3. ORIENT RACK AS SHOWN ON PLANS, PARALLEL AND PERPENDICULAR TO ADJACENT PAVEMENT EDGES, UNLESS OTHERWISE INDICATED ON THE LANDSCAPE PLANS.
4. PROTECT BIKE RACKS THROUGHOUT CONSTRUCTION. CLEAN ALL DEBRIS FROM RACKS PRIOR TO FINAL ACCEPTANCE

3 BIKE RACK DETAIL

NOT TO SCALE

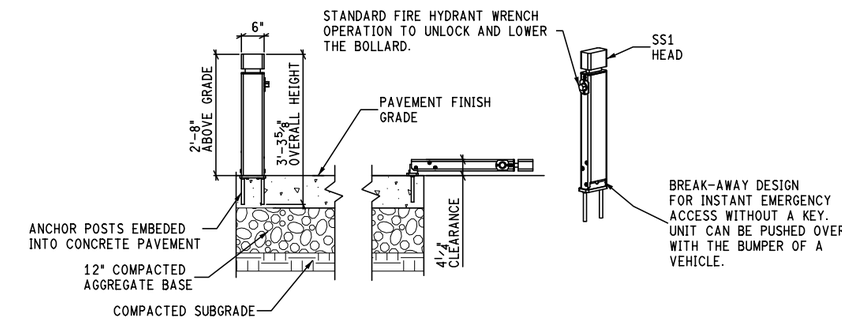


NOTES:

1. SET BOLLARDS INTO CONCRETE FOUNDATION BELOW CONCRETE PAVEMENT.
2. WRAP EXPASNION JOINT FILLER AROUND EACH FIXED BOLLARD.
3. POUR AND FINISH SURFACE PAVEMENT AROUND FIXED BOLLARDS.
4. SEAL EXPANSION JOINTS AROUND FIX BOLLARDS.

4 BOLLARD DETAIL

NOT TO SCALE



NOTES:

1. INSTALL COLLAPSIBLE BOLLARDS PER MANUFACTURER RECOMMENDATIONS.
2. SET BOLLARDS SO THEY COLLAPSE WITHOUT BOLLARD TOUCHING CONCRETE PAVEMENT SURFACE.

5 COLLAPSIBLE BOLLARD DETAIL

NOT TO SCALE

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

City of Detroit

NO SCALE

DATE: 05/24/21

FILE:

JN: PW-7031
RIVERSIDE PARK

LANDSCAPE DETAILS
RIVERSIDE PARK

DRAWING: RIV LNDS 006

SHEET: 101

DETROIT RIVER

W JEFFERSON AVE

STOP R1-1 (30")
6.25 Sft Sign, Type IIIA

ALL WAY R1-3P (30" X 12")
2.5 Sft Sign, Type IIIA

R3-1 (30")
6.25 Sft Sign, Type IIIB
16 Ft 1-Post, Steel, 3 lb

STOP R1-1 (30")
6.25 Sft Sign, Type IIIA

ALL WAY R1-3P (30" X 12")
2.5 Sft Sign, Type IIIA
15 Ft 1-Post, Steel, 3 lb

Jefferson W D3-1 (54" X 16")
6 Sft Sign, Type IIIA

Grand Blvd W D3-1 (66" X 16")
8 Sft Sign, Type IIIA

STOP R1-1 (30")
6.25 Sft Sign, Type IIIA

ALL WAY R1-3P (30" X 12")
2.5 Sft Sign, Type IIIA

R3-2 (30")
6.25 Sft Sign, Type IIIB
18 Ft 1-Post, Steel, 3 lb

SECTION 24
T02S, R11E
CITY OF DETROIT

W JEFFERSON AVE
NON-LEGAL (A) ALI

EX 50' ROW

ONLY 1-Sign, Type III, Rem

Jefferson W 1 - Sign, Type III, Rem

Grand Blvd W 1 - Sign, Type III, Rem

STOP 1-Sign, Type III, Rem
Remove Supports

L103

SIDEWALK

15' 15'

E-OH

PT=103+35.36

N 61° 08' 54" E

SIDEWALK

SIDEWALK

POT=103+78.94

15

11'

14'

SIDEWALK

KEEP LEFT/RIGHT R9-7 MOD (12" X 18")
1.5 Sft Sign, Type IIIB
14 Ft 1-Post, Steel, 3 lb

W GRAND BLVD

EX 200' ROW

POT=10+00.00

N 28° 51' 06" W

10 11 12 13 14

100'

16'

W GRAND BLVD
NON-LEGAL (B) ALI

NO PARKING LOADING ZONE R7-6 (12" X 18")
1.5 Sft Sign, Type IIIA
2 Ea Band, Sign

W GRAND BLVD
NON-LEGAL (A) ALI

30'

SIDEWALK

SIDEWALK

SIDEWALK

SIDEWALK

W10-1 (30")
6.25 Sft Sign, Type IIIB
14 Ft 1-Post, Steel, 3 lb

W10-1 (18")
2.25 Sft Sign, Type IIIB

KEEP LEFT/RIGHT R9-7 (12" X 18")
1.5 Sft Sign, Type IIIB
15 Ft 1-Post, Steel, 3 lb

NO OUTLET 1-Sign, Type III, Rem
Remove Supports

STOP R1-1 (30")
6.25 Sft Sign, Type IIIA

ALL WAY R1-3P (30" X 12")
2.5 Sft Sign, Type IIIA

R3-1 (30")
6.25 Sft Sign, Type IIIB
16 Ft 1-Post, Steel, 3 lb

STOP R1-1 (30")
6.25 Sft Sign, Type IIIA

ALL WAY R1-3P (30" X 12")
2.5 Sft Sign, Type IIIA
15 Ft 1-Post, Steel, 3 lb

STOP R1-1 (30")
6.25 Sft Sign, Type IIIA
14 Ft 1-Post, Steel, 3 lb

ALL WAY R1-3P (30" X 12")
2.5 Sft Sign, Type IIIA

R3-2 (30")
6.25 Sft Sign, Type IIIB
16 Ft 1-Post, Steel, 3 lb

SECTION 24
T02S, R11E
CITY OF DETROIT

NOTES:

SIGNS ATTACHED TO EXISTING RAILROAD GATE ARMS TO BE REMOVED BY CSX.

PERMANENT SIGNING QUANTITIES - THIS SHEET

6	Ea	Sign, Type III, Rem
69	Sft	Sign, Type IIIA
37	Sft	Sign, Type IIIB
139	Ft	Post, Steel, 3 lb
2	Ea	Band, Sign
1	Ea	Post Hole Through Conc for Steel Post

DETROIT RIVER

PARKING LOT

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

City of Detroit

0 HORZ. (FT) 40

FILE:

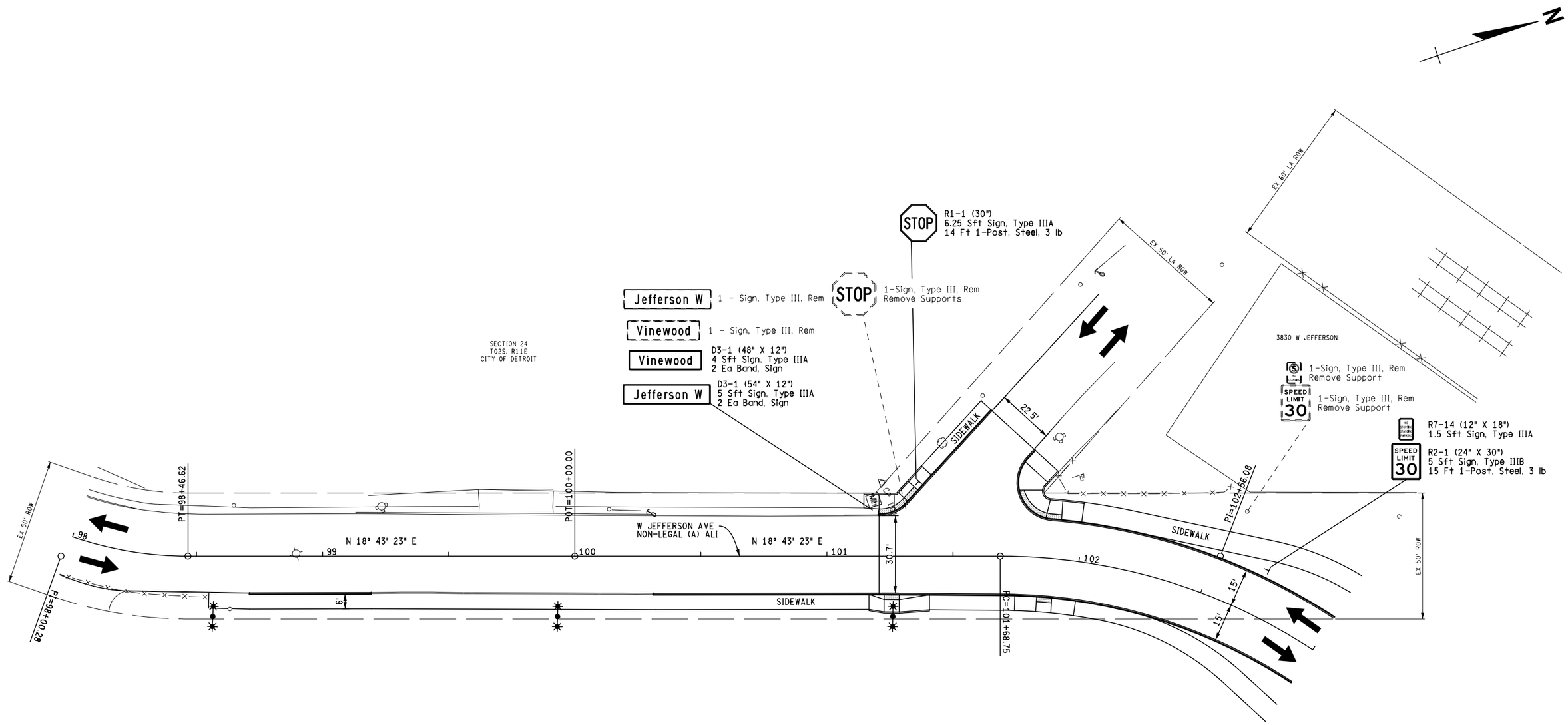
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

SIGNING SHEET
RIVERSIDE PARK
NB W GRAND BLVD POB TO STA 15+00

DRAWING: RIV SIGN 001

SHEET: 102



SECTION 24
T02S. R11E
CITY OF DETROIT

PERMANENT SIGNING QUANTITIES - THIS SHEET

5	Ea	Sign, Type III, Rem
16	Sft	Sign, Type IIIA
7	Sft	Sign, Type IIIB
29	Ft	Post, Steel, 3 lb
4	Ea	Band, Sign
1	Ea	Post Hole Through Conc for Steel Post

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

Detroit

0 HORZ. (FT) 40

FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

SIGNING SHEET
RIVERSIDE PARK
W JEFFERSON STA 98+00 TO STA 103+00

DRAWING: RIV SIGN 002

SHEET: 103

W JEFFERSON AVE

CSX RR

85 W GRAND BLVD

89 W GRAND BLVD

101 W GRAND BLVD

3830 W GRAND BLVD

71 W GRAND BLVD

80 W GRAND BLVD

SECTION 24
T02S, R11E
CITY OF DETROIT

W GRAND BLVD

EX 200' ROW

SIDEWALK

N 28° 51' 06" W

16 17 18 19 20

15 16 17 18 19

W GRAND BLVD
NON-LEGAL (B) ALI

W GRAND BLVD
NON-LEGAL (A) ALI

R15-8 (18" X 9")
1.5 Sft Sign, Type IIIB
2 Ea Band, Sign

1-Sign, Type III, Rem
Remove Support

1-Sign, Type III, Rem
2-Fdn, Wood Support, Rem
Remove Supports

R15-8 (18" X 9")
1.5 Sft Sign, Type IIIB
14 Ft 1-Post, Steel, 3 lb

R15-1 (24" X 4.5")
1.5 Sft Sign, Type IIIB

R15-2P (13.5" X 9")
0.85 Sft Sign, Type IIIB

R1-1 (18")
2.25 Sft Sign, Type IIIA
17 Ft 1-Post, Steel, 3 lb

W10-1 (18")
2.25 Sft Sign, Type IIIB
14 Ft 1-Post, Steel, 3 lb

R8-3 (18")
2.25 Sft Sign, Type IIIB
2 Ea Band, Sign

R8-8 (24" X 30")
5 Sft Sign, Type IIIB

SP-1 (24" X 30")
5 Sft Sign, Type IIIB
15 Ft 1-Post, Steel, 3 lb

1-Sign, Type III, Rem
Remove Supports

R1-1 (30")
6.25 Sft Sign, Type IIIA

R3-1 (30")
6.25 Sft Sign, Type IIIB
16 Ft 1-Post, Steel, 3 lb

W10-1 (30")
6.25 Sft Sign, Type IIIB
14 Ft 1-Post, Steel, 3 lb

W10-4L (18")
2.25 Sft Sign, Type IIIB
14 Ft 1-Post, Steel, 3 lb

R5-2 (30")
6.25 Sft Sign, Type IIIB

R8-3 (18")
2.25 Sft Sign, Type IIIB
15 Ft 1-Post, Steel, 3 lb

1-Sign, Type III, Rem
Remove Support

R10-15R ALT (36")
9 Sft Sign, Type IIIB
14 Ft 1-Post, Steel, 3 lb

1-Sign, Type III, Rem
Remove Support

1-Sign, Type III, Rem
Remove Supports

R15-8 (18" X 9")
1.5 Sft Sign, Type IIIB
14 Ft 1-Post, Steel, 3 lb

R15-1 (24" X 4.5")
1.5 Sft Sign, Type IIIB

R15-2P (13.5" X 9")
0.85 Sft Sign, Type IIIB

R1-1 (18")
2.25 Sft Sign, Type IIIA
17 Ft 1-Post, Steel, 3 lb

1-Sign, Type III, Rem
Remove Support

1-Sign, Type III, Rem
Remove Supports

Jefferson W
D3-1 (54" X 16")
6 Sft Sign, Type IIIA

Grand Blvd W
D3-1 (66" X 16")
8 Sft Sign, Type IIIA
14 Ft 1-Post, Steel, 3 lb

R1-1 (30")
6.25 Sft Sign, Type IIIA
14 Ft 1-Post, Steel, 3 lb

SPEED LIMIT 30
1-Sign, Type III, Rem
Remove Support

SPEED LIMIT 30
R2-1 (24" X 30")
5 Sft Sign, Type IIIB
2 Ea Band, Sign

Jefferson W 1 - Sign, Type III, Rem

Grand Blvd W 1 - Sign, Type III, Rem

1-Sign, Type III, Rem
2-Fdn, Wood Support, Rem
Remove Supports

NOTES:

SIGNS ATTACHED TO EXISTING RAILROAD GATE ARMS TO BE REMOVED BY CSX.

SIGNS ATTACHED TO PROPOSED RAILROAD GATE ARMS TO BE INSTALLED BY CSX.

PERMANENT SIGNING QUANTITIES - THIS SHEET

21	Ea	Sign, Type III, Rem
42	Sft	Sign, Type IIIA
89	Sft	Sign, Type IIIB
271	Ft	Post, Steel, 3 lb
8	Ea	Band, Sign
1	Ea	Post Hole Through Conc for Steel Post

CSX RR

W JEFFERSON AVE

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

City of Detroit

0 HORZ. (FT) 40

FILE:

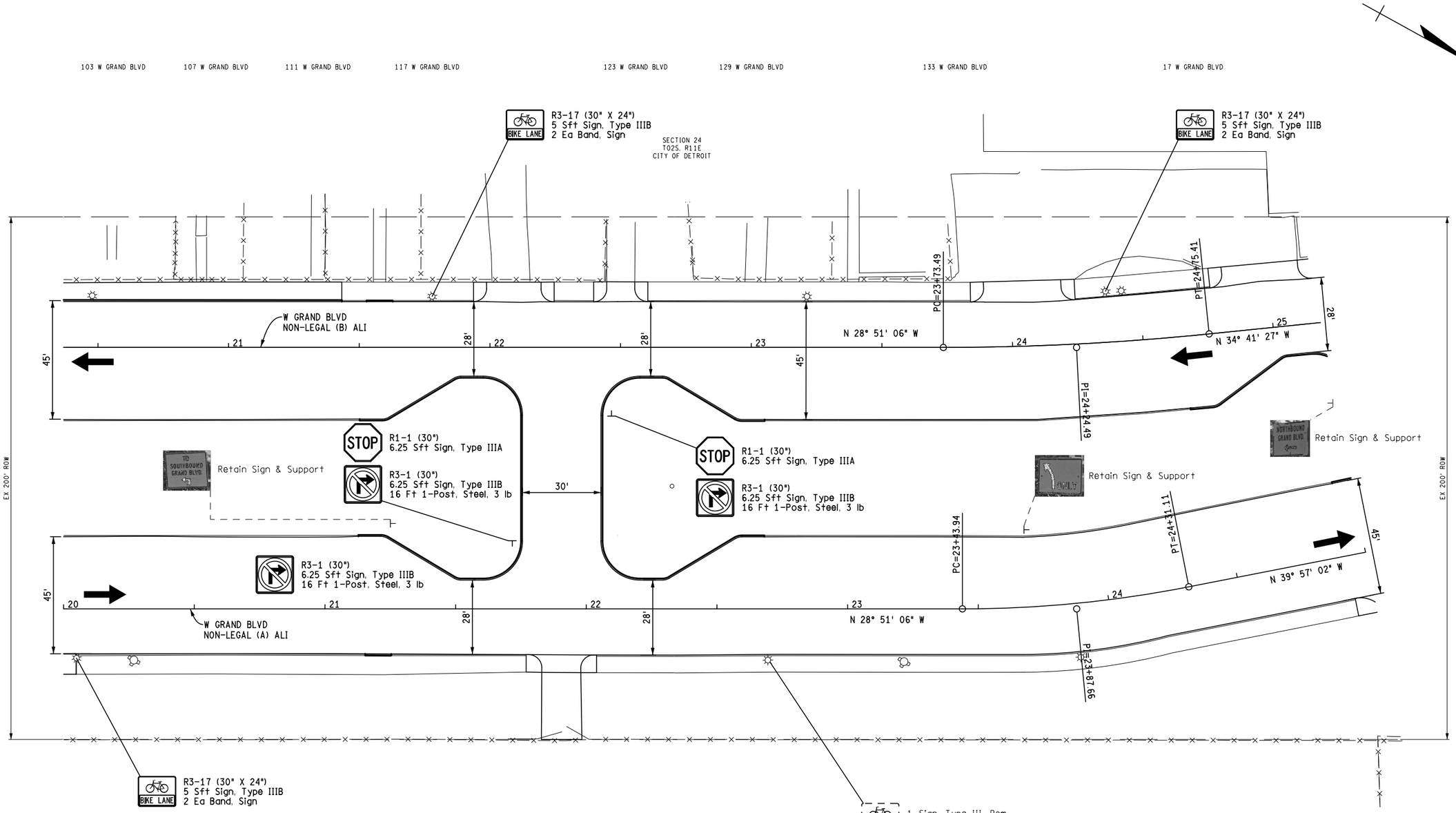
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

SIGNING SHEET
RIVERSIDE PARK
NB W GRAND BLVD STA 15+00 TO STA 20+00

DRAWING: RIV SIGN 003

SHEET: 104



PERMANENT SIGNING QUANTITIES - THIS SHEET

1	Ea	Sign, Type III, Rem
13	Sft	Sign, Type IIIA
33	Sft	Sign, Type IIIB
32	Ft	Post, Steel, 3 lb
8	Ea	Band, Sign

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

Detroit

0 HORZ. (FT) 40

FILE:

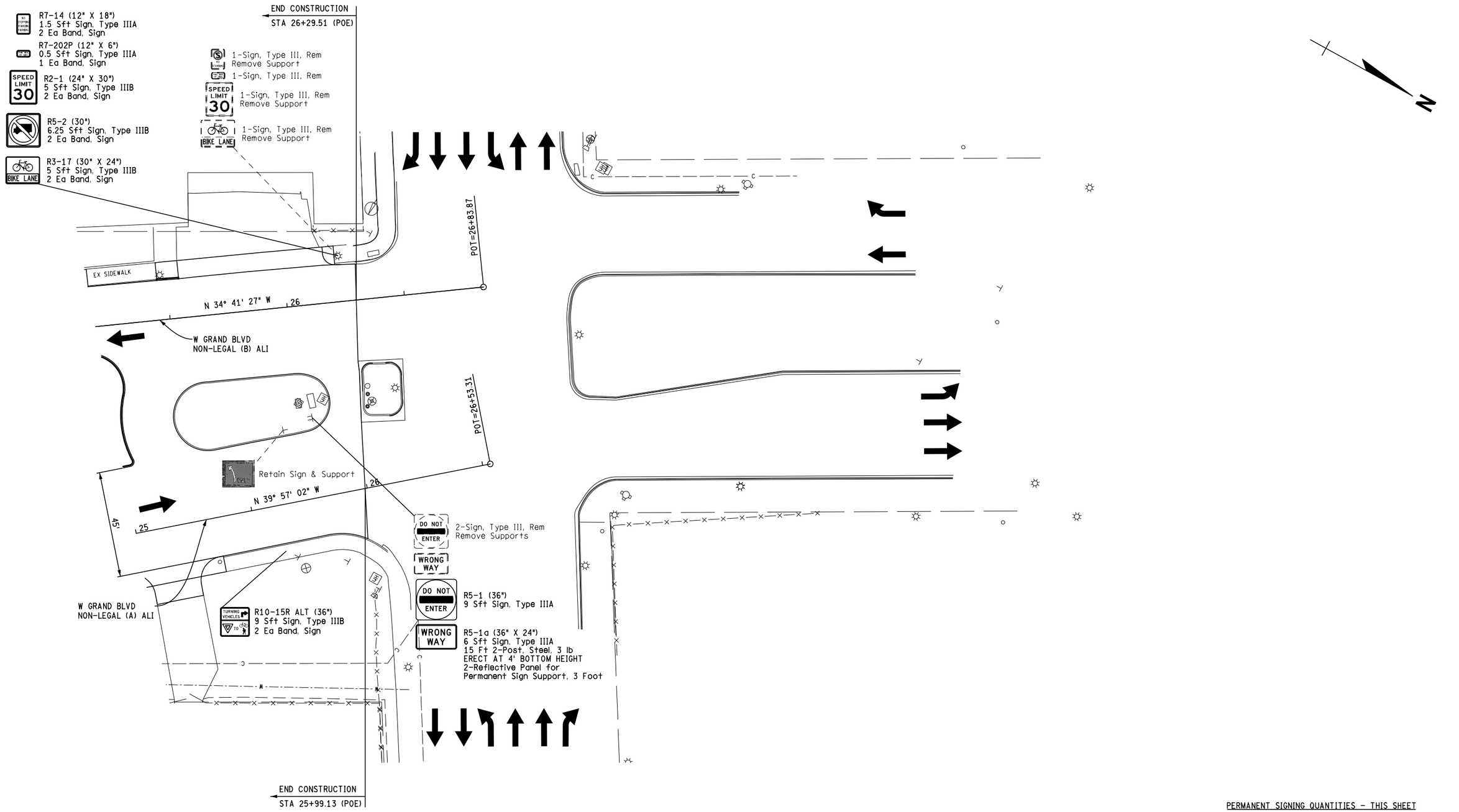
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

SIGNING SHEET
RIVERSIDE PARK
NB W GRAND BLVD STA 20+00 TO STA 25+00

DRAWING: RIV SIGN 004

SHEET: 105



PERMANENT SIGNING QUANTITIES - THIS SHEET

6	Ea	Sign, Type III, Rem
18	Sft	Sign, Type IIIA
27	Sft	Sign, Type IIIB
30	Ft	Post, Steel, 3 lb
11	Ea	Band, Sign
2	Ea	Reflective Panel for Permanent Sign Support, 3 foot

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

Detroit

0 HORZ. (FT) 40

FILE:

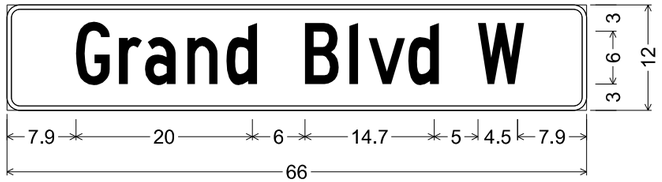
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

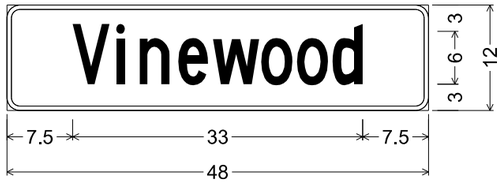
SIGNING SHEET
RIVERSIDE PARK
NB W GRAND BLVD STA 25+00 TO POE

DRAWING: RIV SIGN 005

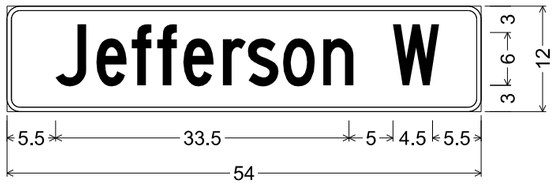
SHEET: 106



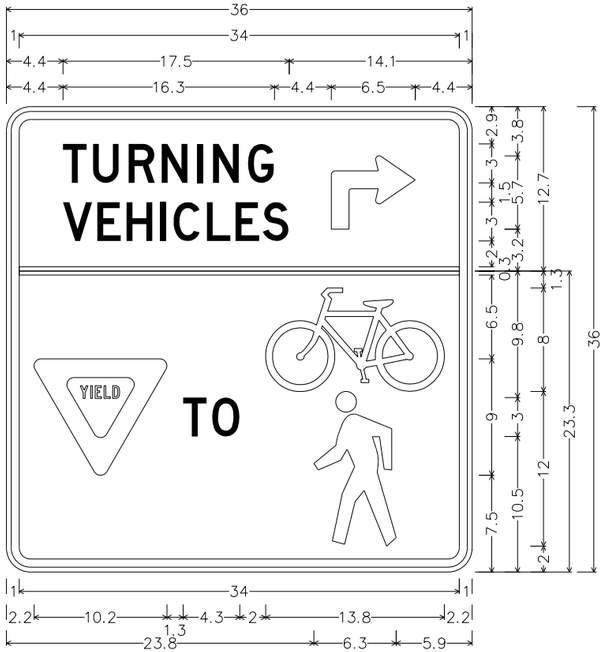
Identifier: D3-1 (12 inch);
1.5" Radius, 0.5" Border, White on, Green;
"Grand Blvd", C; "W", C;



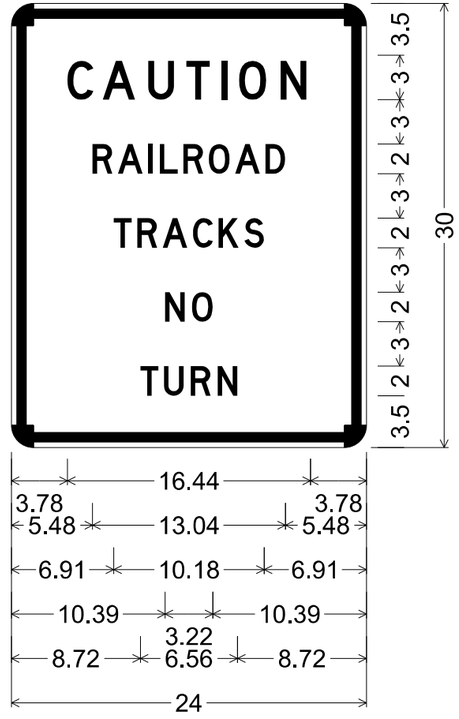
Identifier: D3-1 (12 inch);
1.5" Radius, 0.5" Border, White on, Green;
"Vinewood", C;



Identifier: D3-1 (12 inch);
1.5" Radius, 0.5" Border, White on, Green;
"Jefferson", C; "W", C;



Identifier: R10-15R ALT;
1.9" Radius, 0.6" Border, 0.4" Indent, Black on Yellow;
[TURNING] D 2K specified length;
[VEHICLES] D 2K specified length;
90 Deg Advance Turn Arrow Custom 6.5" X 5.7";
1.9" Radius, 0.6" Border, 0.4" Indent, Black on White;
[TO] D 2K specified length; Bicycle Symbol White;



Identifier: SP-1
1.50" Radius, 0.63" Border, 0.38" Indent, Black on, White;
"CAUTION", D;
"RAILROAD", D;
"TRACKS", D; "NO", D;
"TURN", D;
Table of distances between letter and object lefts

3.78	C 2.40	A 3.07	U 2.57	T 2.39	I 1.18	O 2.81	N 2.02	3.78

5.48	R 1.72	A 2.05	I 0.78	L 1.60	R 1.71	O 1.79	A 2.04	D 1.35	5.48

6.91	T 1.60	R 1.72	A 2.04	C 1.72	K 1.75	S 1.35	6.91

10.39	N 1.81	O 1.41	10.39

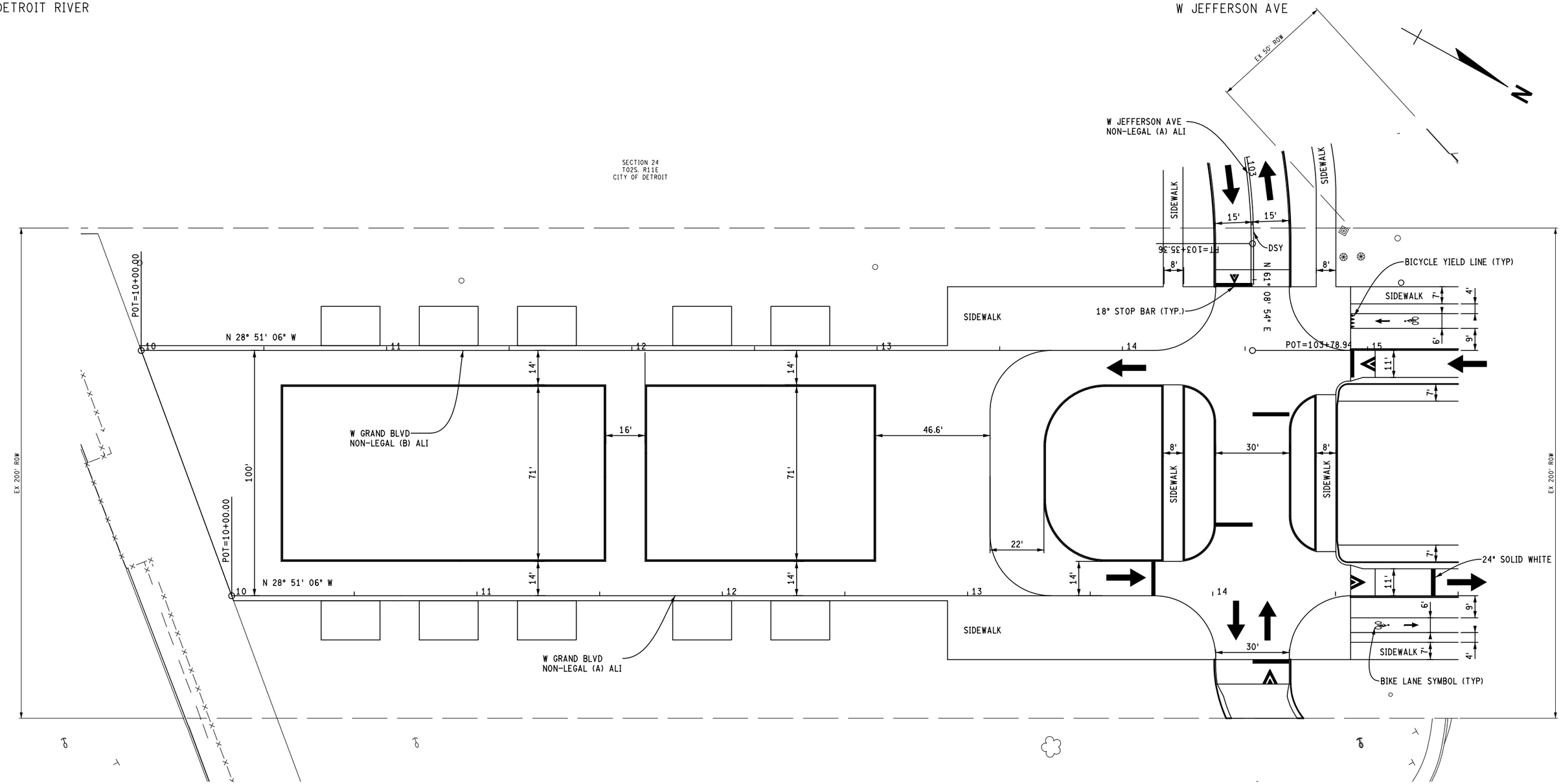
8.72	T 1.59	U 1.81	R 1.82	N 1.34	8.72

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp	Detroit	NO SCALE		DATE: 05/24/21	SIGNING DETAILS	DRAWING / SHEET
			FILE:	JN: PW-7031 RIVERSIDE PARK		RIV SIGN 006 / 107

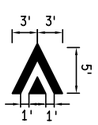
DETROIT RIVER

W JEFFERSON AVE

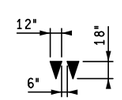


LEGEND

SW	SOLID WHITE
SY	SOLID YELLOW
DSY	DOUBLE SOLID YELLOW
SKW	SKIP WHITE
SKY	SKIP YELLOW



RAMP MARKING



BICYCLE YIELD LINE

NOTES:

ALL LONGITUDINAL MARKS ARE
4" WIDE UNLESS SPECIFIED OTHERWISE

SECTION 24
T02S, R11E
CITY OF DETROIT

PAVEMENT MARKING QUANTITIES - THIS SHEET

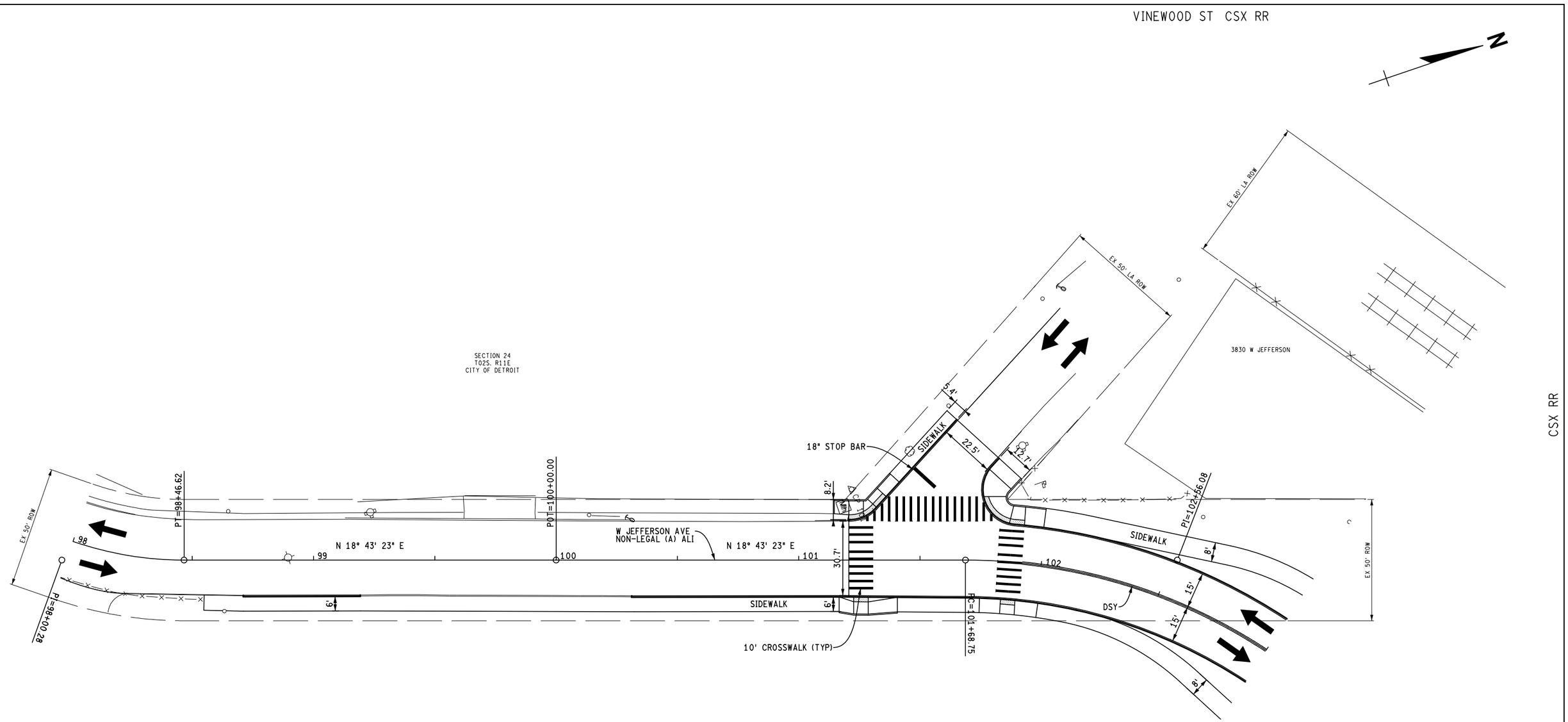
85	Ft	Pavt Mrkg, Polyurea, 18 inch, Stop Bar
106	Ft	Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow
85	Ft	Recessing for Pavt Mrkg, 18 inch
4	Ea	Pavt Mrkg, Polyurea, Yield Arrow Sym
2	Ea	Pavt Mrkg, Polymer Cement, Direction Arrow Sym, Bike
2	Ea	Pavt Mrkg, Polymer Cement, Bike
4	Ea	Pavt Mrkg, Polymer Cement, Yield, Bike

DETROIT RIVER

PARKING LOT

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)										
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION	wsp	Detroit	0 HORZ. (FT) 40

	DATE: 05/24/21		PAVEMENT MARKING PLANS	DRAWING	SHEET
FILE:		JN: PW-7031 RIVERSIDE PARK	RIVERSIDE PARK	RIV PVTMRK 001	108
			NB W GRAND BLVD POB TO STA 15+00		



SECTION 24
T02S. R11E
CITY OF DETROIT

LEGEND

SW	SOLID WHITE
SY	SOLID YELLOW
DSY	DOUBLE SOLID YELLOW
SKW	SKIP WHITE
SKY	SKIP YELLOW

NOTES:

ALL LONGITUDINAL MARKS ARE
4" WIDE UNLESS SPECIFIED OTHERWISE

PAVEMENT MARKING QUANTITIES - THIS SHEET

216	Ft	Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow
338	Ft	Pavt Mrkg, Polyurea, 12 inch, Crosswalk
338	Ft	Recessing for Pavt Mrkg, 12 inch
12	Ft	Recessing for Pavt Mrkg, 18 inch
12	Ft	Pavt Mrkg, Polyurea, 18 inch, Stop Bar

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

City of Detroit

0 HORZ. (FT) 40

FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

PAVEMENT MARKING PLANS
RIVERSIDE PARK
W JEFFERSON STA 98+00 TO STA 103+00

DRAWING: RIV PVTMRK 002

SHEET: 109

W JEFFERSON AVE

CSX RR

SECTION 24
T02S, R11E
CITY OF DETROIT

EX 60' LA ROW

3830 W GRAND BLVD

71 W GRAND BLVD

85 W GRAND BLVD

89 W GRAND BLVD

101 W GRAND BLVD

RAILROAD GRADE CROSSING PAVEMENT MARKING, TYP (SEE PAVE-965-D)

BIKE LANE SYMBOL

FLEXPOST @ 20' O.C. (TYP)

24" STOP BAR

SIDEWALK

SKW

SW

N 28° 51' 06" W

R 10'

W GRAND BLVD
NON-LEGAL (B) ALI

24" SOLID WHITE

18' STOP BAR (TYP)

DSY

30'

BIKE CONFLICT MARKING (TYP)

12" SOLID WHITE

5' CROSSWALK (TYP)

BIKE LANE SYMBOL (TYP)

PAVT MRKG, POLYMER CEMENT SURFACING, GREEN (TYP)

80 W GRAND BLVD

EX SIDEWALK

12" WHITE CROSS HATCHING (TYP)

W GRAND BLVD

EX 200' ROW

EX 50' ROW

SECTION 24
T02S, R11E
CITY OF DETROIT

CSX RR

W JEFFERSON AVE

RAMP MARKING

LEGEND

SW	SOLID WHITE
SY	SOLID YELLOW
DSY	DOUBLE SOLID YELLOW
SKW	SKIP WHITE
SKY	SKIP YELLOW

TYPICAL CROSS HATCHING PAVEMENT MARKING

NOTES:

ALL LONGITUDINAL MARKS ARE 4" WIDE UNLESS SPECIFIED OTHERWISE

PAVEMENT MARKING QUANTITIES – THIS SHEET

1800	Ft	Pavt Mrkg, Sprayable Thermopl, 4 inch, White
211	Ft	Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow
93	Ft	Pavt Mrkg, Polyurea, 12 inch, White
47	Ft	Pavt Mrkg, Polyurea, 18 inch, Stop Bar
47	Ft	Pavt Mrkg, Polyurea, 24 inch, Stop Bar
50	Ft	Pavt Mrkg, Polyurea, 12 inch, Crosswalk
226	Ft	Pavt Mrkg, Polyurea, 4 inch, White
83	Ft	Pavt Mrkg, Polymer Cement, 12 inch, White
372	Ft	Pavt Mrkg, Polyurea, 12 inch Cross Hatching, White
5	Ea	Pavt Mrkg, Polymer Cement, Direction Arrow Sym, Bike
5	Ea	Pavt Mrkg, Polymer Cement, Bike
948	Sft	Pavt Mrkg, Polymer Cement Surfacing, Green
18	Ea	Post, Delineator, 30 inch, Green
143	Ft	Recessing for Pavt Mrkg, 12 inch
47	Ft	Recessing for Pavt Mrkg, 18 inch
47	Ft	Recessing for Pavt Mrkg, 24 inch
4	Ea	Pavt Mrkg, Polyurea, Railroad Sym
1	Ea	Pavt Mrkg, Polymer Cement, Ramp Sym

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

City of Detroit

0 HORZ. (FT) 40

DATE: 05/24/21

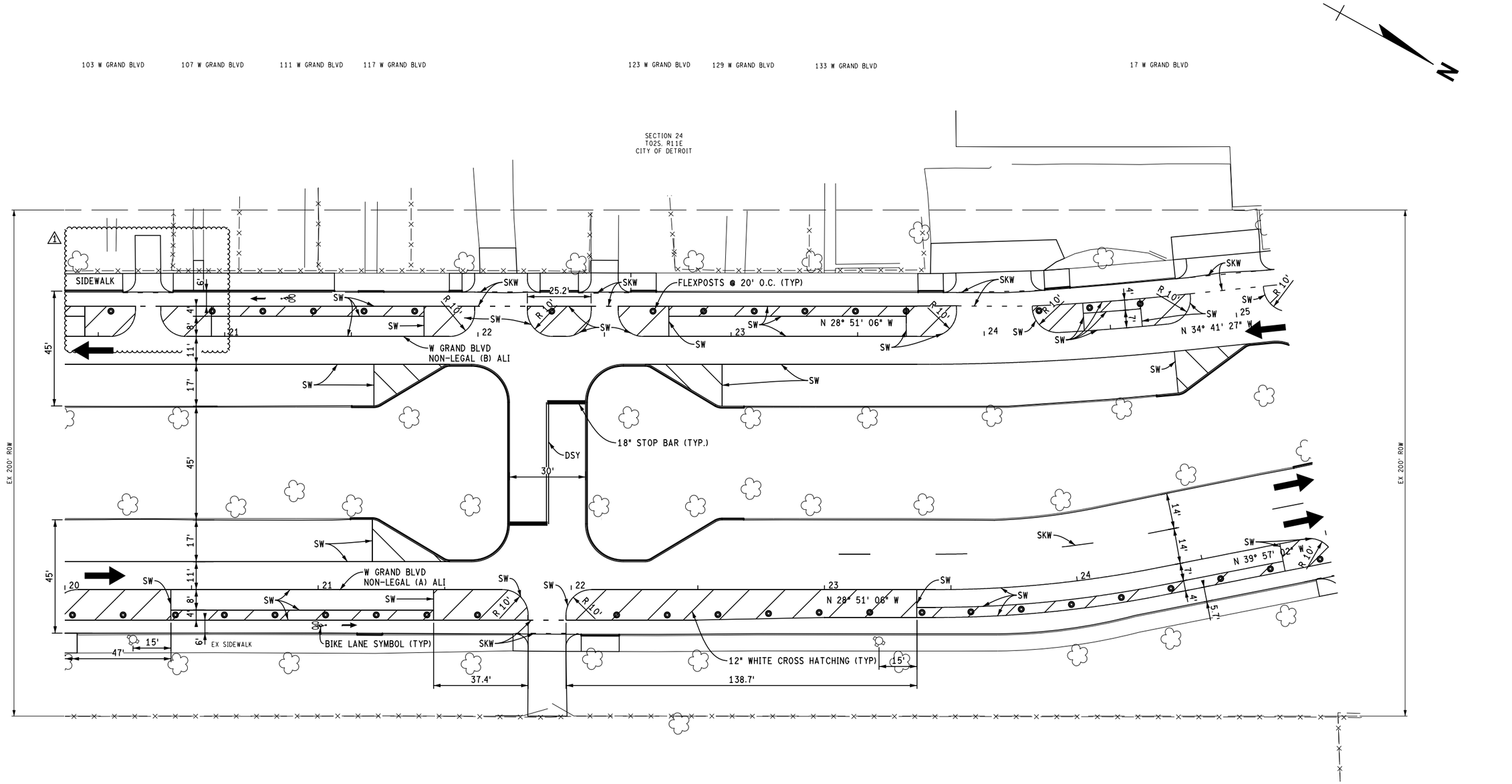
FILE:

JN: PW-7031
RIVERSIDE PARK

PAVEMENT MARKING PLANS
RIVERSIDE PARK
NB W GRAND BLVD STA 15+00 TO STA 20+00

DRAWING: RIV PVTMRK 003

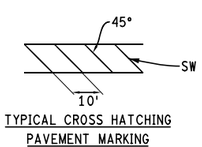
SHEET: 110



SECTION 24
T02S, R11E
CITY OF DETROIT

LEGEND

SW	SOLID WHITE
SY	SOLID YELLOW
DSY	DOUBLE SOLID YELLOW
SKW	SKIP WHITE
SKY	SKIP YELLOW



TYPICAL CROSS HATCHING
PAVEMENT MARKING

NOTES:

ALL LONGITUDINAL MARKS ARE
4" WIDE UNLESS SPECIFIED OTHERWISE

PAVEMENT MARKING QUANTITIES - THIS SHEET

1	2879	Ft	Pavt Mrkg, Sprayable Thermopl, 4 inch, White
	96	Ft	Pavt Mrkg, Sprayable Thermopl, 4 inch, Yellow
	30	Ft	Pavt Mrkg, Polyurea, 18 inch, Stop Bar
1	73	Ft	Pavt Mrkg, Polymer Cement, 12 inch, White
	178	Ft	Pavt Mrkg, Polyurea, 4 inch, White
	690	Ft	Pavt Mrkg, Polyurea, 12 inch Cross Hatching, White
	2	Ea	Pavt Mrkg, Polymer Cement, Direction Arrow Sym, Bike
	2	Ea	Pavt Mrkg, Polymer Cement, Bike
1	39	Ea	Post, Delineator, 30 inch, Green
	30	Ft	Recessing for Pavt Mrkg, 18 inch

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION
1	06/04/21		PAVEMENT MARKING UPDATES				

wsp

Detroit

0 HORZ. (FT) 40

FILE:

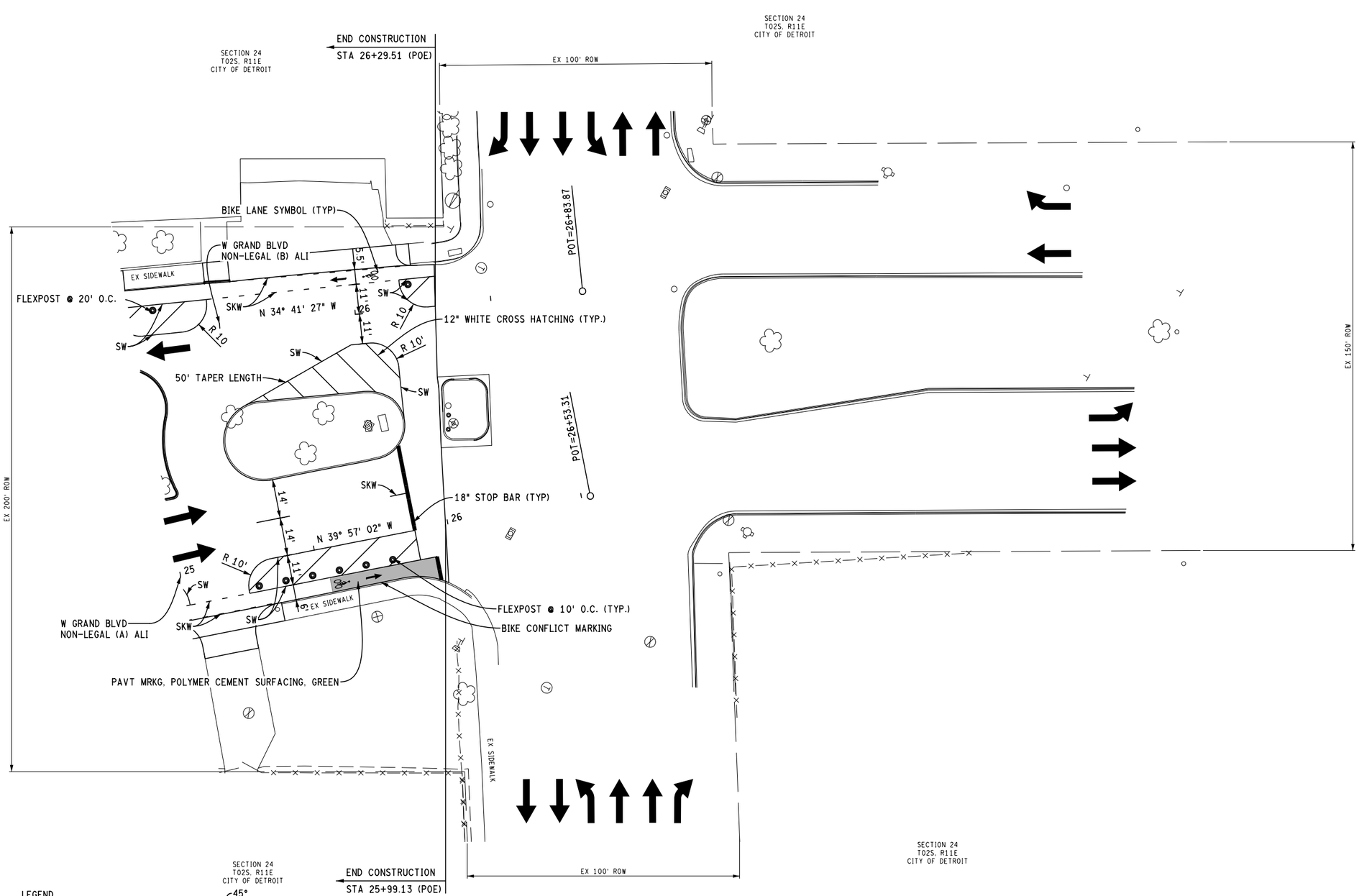
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

PAVEMENT MARKING PLANS
RIVERSIDE PARK
NB W GRAND BLVD STA 20+00 TO STA 25+00

DRAWING: RIV PVTMRK 004

SHEET: 111

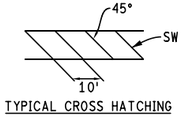


LEGEND

SW	SOLID WHITE
SY	SOLID YELLOW
DSY	DOUBLE SOLID YELLOW
SKW	SKIP WHITE
SKY	SKIP YELLOW

NOTES:

ALL LONGITUDINAL MARKS ARE
4" WIDE UNLESS SPECIFIED OTHERWISE



TYPICAL CROSS HATCHING
PAVEMENT MARKING

PAVEMENT MARKING QUANTITIES - THIS SHEET

352	Ft	Pavt Mrkg, Sprayable Thermopl, 4 inch, White
41	Ft	Pavt Mrkg, Polyurea, 18 inch, Stop Bar
175	Ft	Pavt Mrkg, Polyurea, 12 inch Cross Hatching, White
2	Ea	Pavt Mrkg, Polymer Cement, Direction Arrow Sym, Bike
2	Ea	Pavt Mrkg, Polymer Cement, Bike
219	Sft	Pavt Mrkg, Polymer Cement Surfacing, Green
8	Ea	Post, Delineator, 30 inch, Green
41	Ft	Recessing for Pavt Mrkg, 18 inch
61	Ft	Pavt Mrkg, Polymer Cement, 12 inch, White

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

wsp

Detroit

0 HORZ. (FT) 40

DATE: 05/24/21

FILE:

JN: PW-7031
RIVERSIDE PARK

PAVEMENT MARKING PLANS
RIVERSIDE PARK
NB W GRAND BLVD STA 25+00 TO POE

DRAWING: RIV PVTMRK 005

SHEET: 112

DETROIT RIVER

W JEFFERSON AVE

W GRAND BLVD

W GRAND BLVD

LIGHTING AND CABLE INSTALLATION WORK IN THIS AREA TO BE COMPLETED BY OTHERS. INSTALL FOUNDATIONS, HANDHOLES & CONDUIT AS SHOWN

SECTION 24
T02S, R11E
CITY OF DETROIT

W JEFFERSON AVE
NON-LEGAL (A) ALI

W JEFFERSON AVE
+07.14
1708' RT

EX 50' ROW

CONDUIT, ENCASED, 2, 3 INCH MODIFIED
(TYP, UNDER ROADWAY)

CAUTION – CRITICAL UTILITY

CONDUIT, DB, 2, 3 INCH
(TYP)

W GRAND BLVD
NON-LEGAL (B) ALI

W GRAND BLVD
NON-LEGAL (A) ALI

N 28° 51' 06" W

POT=10+00.00

POT=10+98.00

POT=103+78.94

PT=103+35.36

46.94' LT
+54.88

42.02' LT
+55.93

49.83' LT
+48.99

41.18' LT
+96.57

+01.10
39.16' LT

6.67' LT
+08.71

+03.07
5.74' LT

5.00' LT
+84.72

2.59' RT
+48.19

12.77' LT
+27.02

33.04' LT
+17.24

2.08' LT
+22.99

SIDEWALK

EX 8" WM (DWSD)

EX 15"-6" SANITARY (DWSD)

EX STORM MAIN (DWSD)

EX 24" SANITARY (DWSD)

GRAND BLVD (A) ALI
+25.69
50.97' LT

GRAND BLVD (B) ALI
48.06' RT
+83.87

+29.43
19.49' RT

+34.31
18.67' RT

+45.44
19.97' RT

19.49' RT
+49.96

EX UG ELECTRIC (DTE)

HAZARDOUS OR FLAMMABLE MATERIAL

GRAND BLVD (B) ALI
+80.13
43.68' RT

+33.05
53.16' LT
GRAND BLVD (A) ALI

21.51' LT
+97.85

21.51' LT
+08.08

+91.70
19.78' LT

+13.20
19.49' LT

GRAND BLVD (A) ALI
50.00' LT
+04.15

GRAND BLVD (A) ALI
41.22' RT
+99.15

+08.10
7.71' RT

+12.63
11.79' RT

+25.51
44.61' RT

+53.82
44.64' RT

+69.60
43.55' RT

+09.92
3.27' LT

+47.82
5.00' RT

+91.88
9.48' RT

+61.65
2.08' RT

SECTION 24
T02S, R11E
CITY OF DETROIT

CONSTRUCTION QUANTITIES – THIS SHEET

1270	Ft	Conduit, DB, 2, 3 inch
215	Ft	Conduit, Encased, 2, 3 inch, Modified
710	Ft	Cable, Equipment Grounding Wire, 1/C#2, Modified
710	Ft	Cable, Sec, 600V, 3, 1/C#2, Modified
22	Ea	Hh, Polymer Conc, Modified
17	Ea	Light Std Fdn, Modified
7	Ea	Light Std, Tapered Aluminum, Install
7	Ea	Luminaire, 82W, Install
7	Ea	Luminaire, 111W, Install

DETROIT RIVER

PARKING LOT

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION
1	06/04/21		WIRE SIZE REVISIONS				

OHM

City of Detroit

0 HORZ. (FT) 40

FILE:

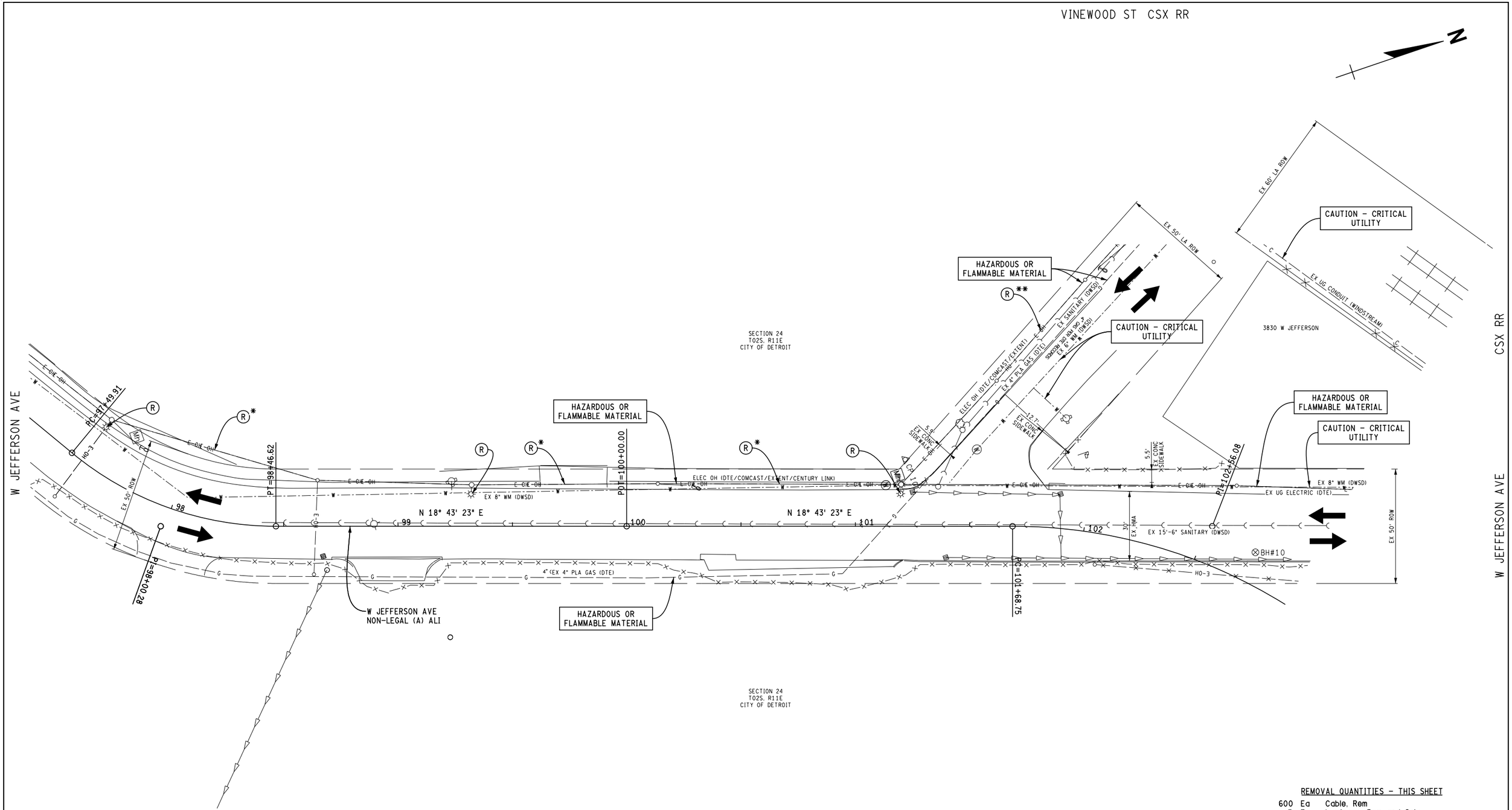
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

LIGHTING CONSTRUCTION SHEET
RIVERSIDE PARK
NB W GRAND BLVD POB TO STA 15+00

DRAWING: RIV L CON 001

SHEET: 113



REMOVAL QUANTITIES - THIS SHEET		
600	Ea	Cable, Rem
3	Ea	Luminare, Rem and Salv
3	Ea	Bracket Arm, Bolt On, Rem

*REMOVE LIGHTING CABLE ONLY
**REMOVE LIGHTING CABLE ONLY TO NEXT EX OH LIGHT

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

OHM | Detroit | 0 HORZ. (FT) 40

FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

LIGHTING REMOVAL SHEET
RIVERSIDE PARK
W JEFFERSON STA 98+00 TO STA 103+00

DRAWING: RIV L REM 002

SHEET: 114

VINEWOOD ST CSX RR

W JEFFERSON AVE

CSX RR

W JEFFERSON AVE

SECTION 24
T02S, R11E
CITY OF DETROIT

3830 W JEFFERSON

EX 50' LA ROW

EX 60' LA ROW

CAUTION – CRITICAL UTILITY

HAZARDOUS OR FLAMMABLE MATERIAL

ELEC OH (DTE/COMCAST/EXTENT/CENTURY LINK)

EX 8" WM (DWSD)

EX SANITARY (DWSD)

EX 6" WM (DWSD)

EX 4" PLA GAS (DTE)

EX UG CONDUIT (WINDSTREAM)

ENCASED CONDUIT TO BE PLACED BY OTHERS

W JEFFERSON AVE NON-LEGAL (A) ALI

EX GUY POLE

CONDUIT, DB, 2, 3 INCH (TYP)

PC=97+49.91

PT=98+46.62

POT=100+00.00

PT=102+56.08

P=98+00.28

N 18° 43' 23" E

+74.67
19.63' RT

+25.53
19.14' RT

+56.47
24.00' RT

+93.17
24.00' RT

+42.95
24.00' RT

+80.89
23.64' RT

+68.75

BH#10

CONSTRUCTION QUANTITIES – THIS SHEET

⚠1	465	Ft	Conduit, DB, 2, 3 inch
	540	Ft	Cable, Equipment Grounding Wire, 1/C#2, Modified
	540	Ft	Cable, Sec, 600V, 3, 1/C#2, Modified
	6	Ea	Hh, Polymer Conc, Modified
	4	Ea	Light Std Fdn, Modified
	4	Ea	Light Std, Tapered Aluminum, Install
	4	Ea	Luminaire, 82W, Install
	4	Ea	Luminaire, 111W, Install

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION
1	06/04/21		WIRE SIZE REVISIONS

OHM

Detroit

0 HORZ. (FT) 40

FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

LIGHTING CONSTRUCTION SHEET
RIVERSIDE PARK
W JEFFERSON STA 98+00 TO STA 103+00

DRAWING: RIV L CON 002

SHEET: 115

W JEFFERSON AVE

CSX RR

SECTION 24
T02S, R11E
CITY OF DETROIT

N

3830 W GRAND BLVD

71 W GRAND BLVD

85 W GRAND BLVD

89 W GRAND BLVD

101 W GRAND BLVD

EX 60' LA ROW

CAUTION – CRITICAL UTILITY

EX UG CONDUIT (WINDSTREAM)

EX 24" SANITARY (DWSD)

EX 6" WM (DWSD)

EX 50' ROW

EX HMA

HAZARDOUS OR FLAMMABLE MATERIAL

EX SIDEWALK

ELEC OH (LIGHTING)

HO-3

N 28° 51' 06" W

16

17

18

19

20

BH#04

EX 15"-6" SANITARY (DWSD)

ELEC OH (DTE/COMCAST/EXTENT/CENTURY LINK)

REM-B/O

EX UG ELECTRIC (DTE)

HAZARDOUS OR FLAMMABLE MATERIAL

HAZARDOUS OR FLAMMABLE MATERIAL

HAZARDOUS OR FLAMMABLE MATERIAL

EX UG ELECTRIC (DTE)

N 28° 51' 06" W

15

16

17

18

19

EX 9'-2" SANITARY (DWSD)

EX 3" PLA GAS (DTE)

EX 6" WM (DWSD)

CAUTION – CRITICAL UTILITY

REL-B/O

REM-B/O

HAZARDOUS OR FLAMMABLE MATERIAL

CAUTION – CRITICAL UTILITY

HAZARDOUS OR FLAMMABLE MATERIAL

HAZARDOUS OR FLAMMABLE MATERIAL

REL-B/O

80 W GRAND BLVD

EX 8" WM (DWSD)

ELEC OH (DTE/COMCAST/EXTENT/CENTURY LINK)

CAUTION – CRITICAL UTILITY

EX 60' LA ROW

EX 50' ROW

SECTION 24
T02S, R11E
CITY OF DETROIT

W GRAND BLVD

EX 200' ROW

W GRAND BLVD

EX 200' ROW

*SEE LIGHTING DRAWING
RIV L CON 005 TO RESTORE
LIGHT POWER FEED UPON
REMOVAL OF LIGHTING CONTROL

REMOVAL QUANTITIES – THIS SHEET

300	Ea	Cable, Rem
4	Ea	Luminaire, Rem and Salv
2	Ea	Wood Pole, Rem
4	Ea	Bracket Arm, Bolt On, Rem
1	Ea	Photo Control, Lighting, Rem

CSX RR

W JEFFERSON AVE

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

OHM

Detroit

0 HORZ. (FT) 40

FILE:

DATE: 04/09/21

JN: PW-7031
RIVERSIDE PARK

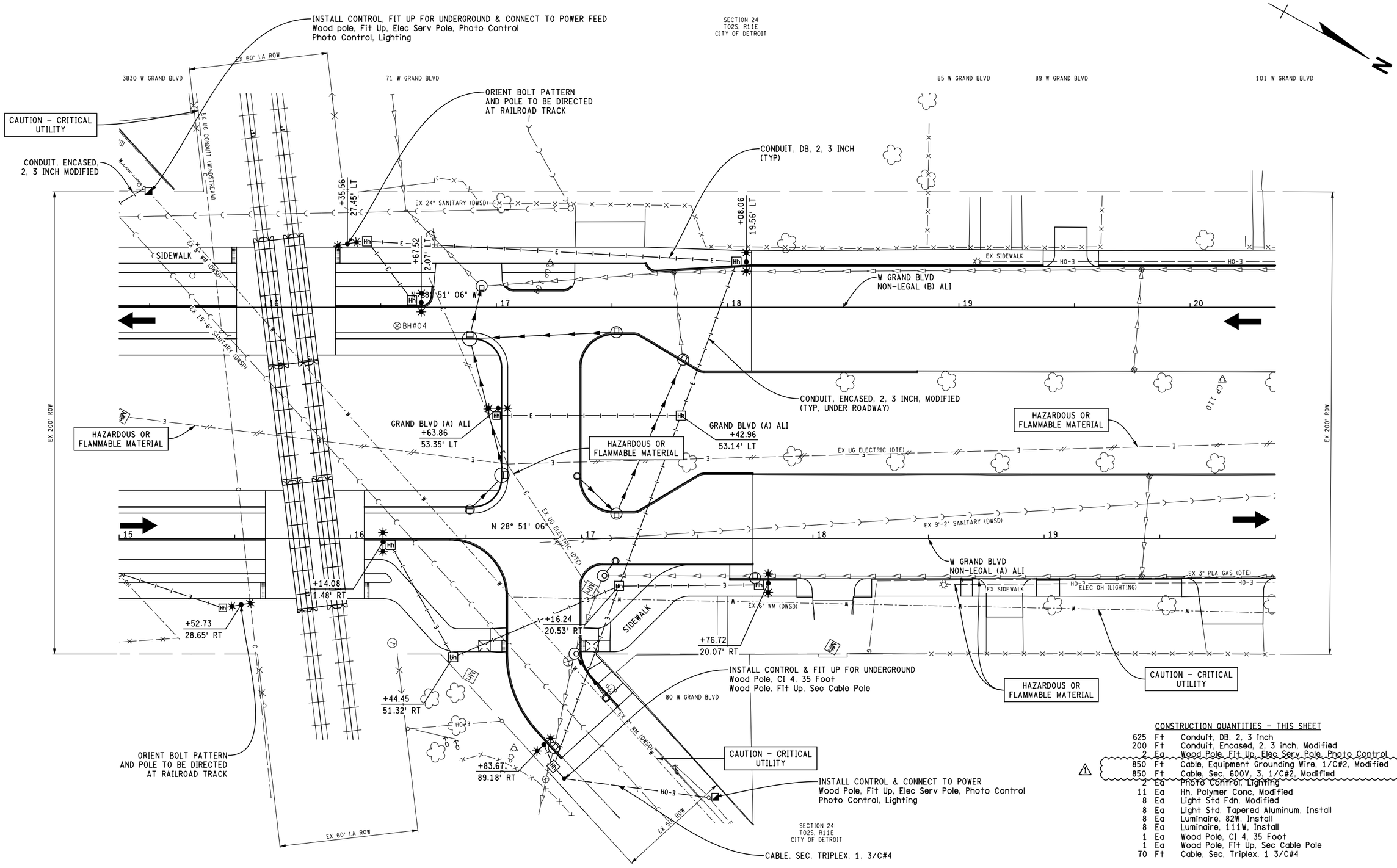
LIGHTING REMOVAL SHEET
RIVERSIDE PARK
NB W GRAND BLVD STA 15+00 TO STA 20+00

DRAWING: RIV L REM 003

SHEET: 116

W JEFFERSON AVE

CSX RR



CONSTRUCTION QUANTITIES - THIS SHEET

	625	Ft	Conduit, DB, 2, 3 inch
	200	Ft	Conduit, Encased, 2, 3 inch, Modified
	2	Ea	Wood Pole, Fit Up, Elec Serv Pole, Photo Control
⚠	850	Ft	Cable, Equipment Grounding Wire, 1/C#2, Modified
⚠	850	Ft	Cable, Sec, 600V, 3, 1/C#2, Modified
	2	Ea	Photo Control, Lighting
	11	Ea	Hh, Polymer Conc, Modified
	8	Ea	Light Std Fdn, Modified
	8	Ea	Light Std, Tapered Aluminum, Install
	8	Ea	Luminaire, 82W, Install
	8	Ea	Luminaire, 111W, Install
	1	Ea	Wood Pole, Cl 4, 35 Foot
	1	Ea	Wood Pole, Fit Up, Sec Cable Pole
	70	Ft	Cable, Sec, Triplex, 1 3/C#4

CSX RR

W JEFFERSON AVE

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION
1	06/04/21		WIRE SIZE REVISIONS				

OHM

Detroit

0 HORZ. (FT) 40

DATE: 05/24/21

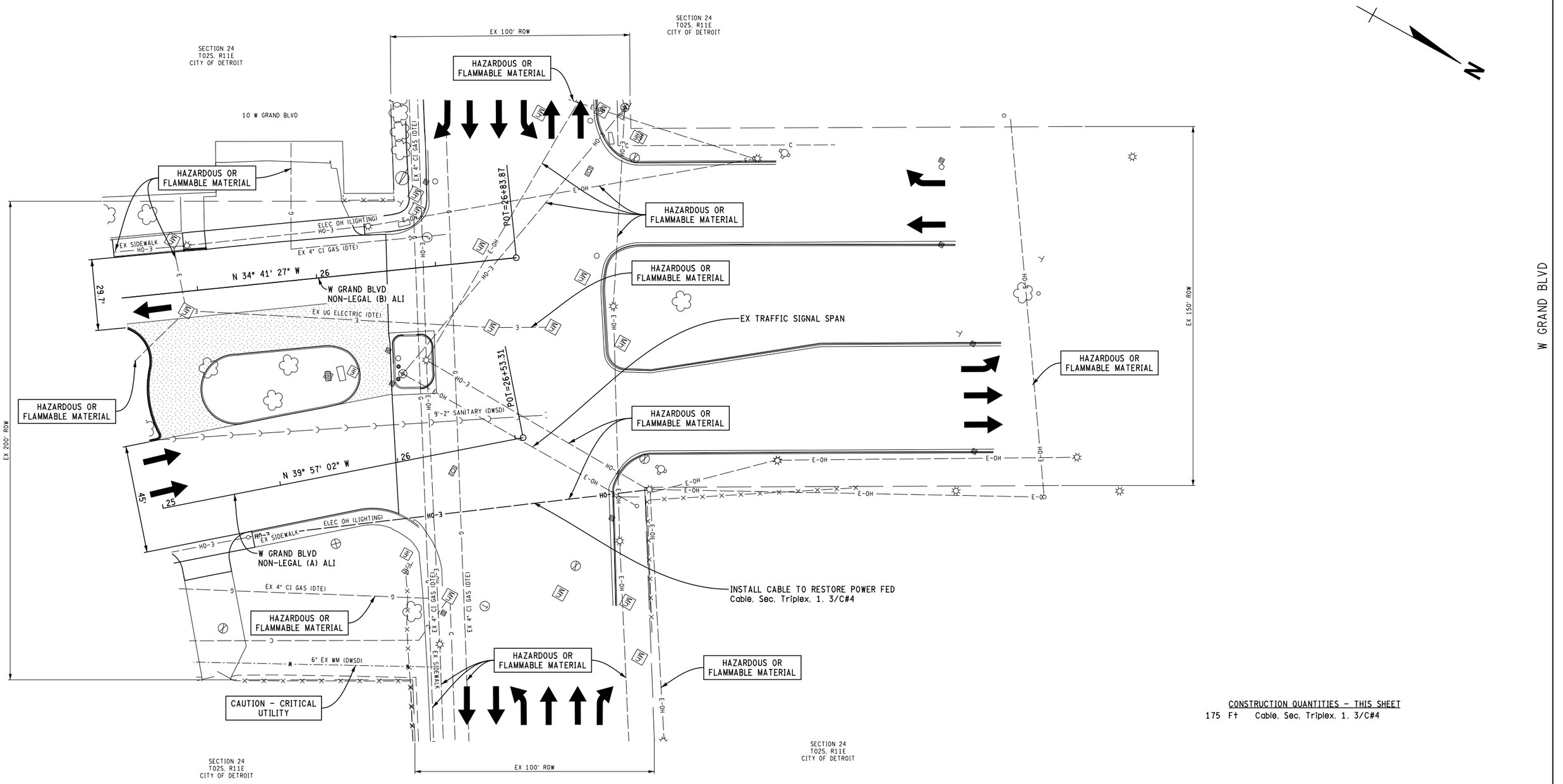
FILE:

JN: PW-7031
RIVERSIDE PARK

LIGHTING CONSTRUCTION SHEET
RIVERSIDE PARK
NB W GRAND BLVD STA 15+00 TO STA 20+00

DRAWING: RIV L CON 003

SHEET: 117



CONSTRUCTION QUANTITIES - THIS SHEET

175 Ft Cable, Sec, Triplex, 1, 3/C#4

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

OHM

Detroit

0 HORZ. (FT) 40

FILE:

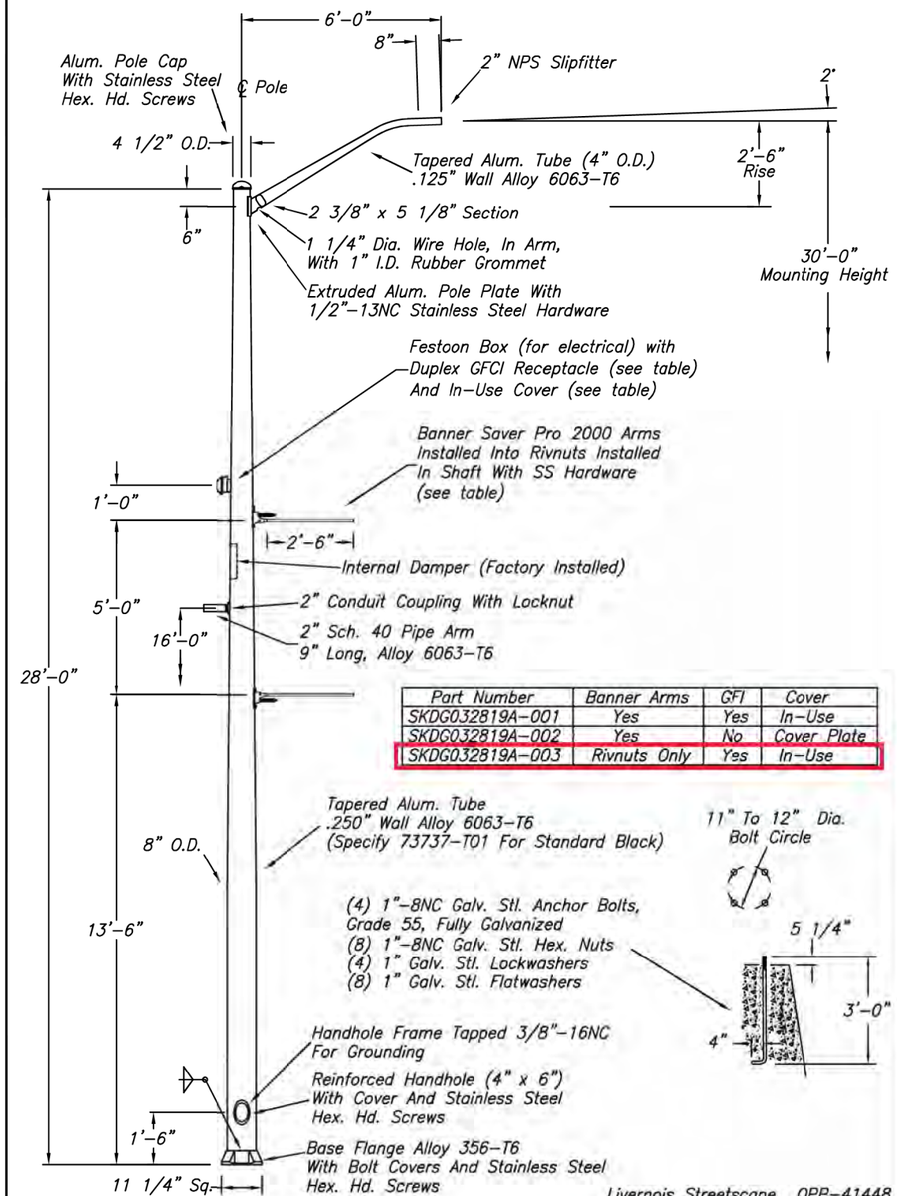
DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

LIGHTING CONSTRUCTION SHEET
RIVERSIDE PARK
NB W GRAND BLVD STA 25+00 TO POE

DRAWING: RIV L CON 005

SHEET: 118



Part Number	Banner Arms	GFI	Cover
SKDG032819A-001	Yes	Yes	In-Use
SKDG032819A-002	Yes	No	Cover Plate
SKDG032819A-003	Rivnuts Only	Yes	In-Use

Livernois Streetscape OPP-41448
Kercheval Streetscape OPP-44129
McNichols Streetscape OPP-44129

Ref: 33265, 52925

SKDG032819A

NO.	REVISIONS	DATE
1	Add Table And Project Notes (DG)	5.19

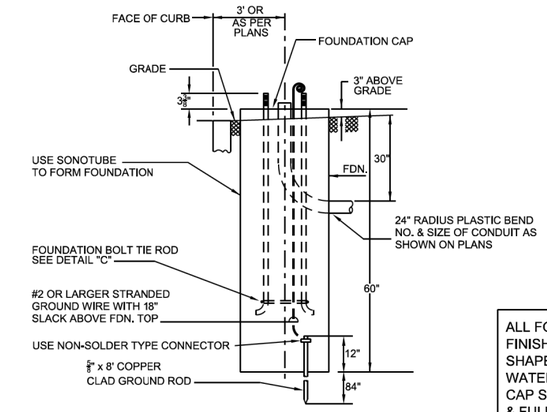
WARNING: DO NOT INSTALL LIGHTING POLES WITHOUT LUMINAIRES

hapco
Abingdon, Va.

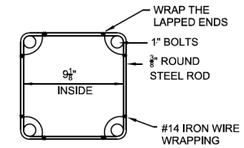
TITLE	30' Light Pole
CUSTOMER	PLA - Detroit -ELUS
SCALE	NTS
DATE	3.28.19
BY	RDG
CHK'D	
DWG. NO.	SKDG032819A

ANCHOR BASE FOUNDATION PLAN

NOT TO SCALE



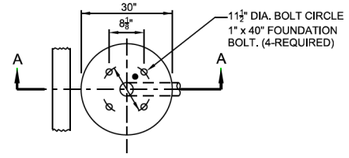
SECTION A-A



DETAIL "C"

ANCHOR BOLT TIE ROD

ALL FOUNDATION CAPS SHALL HAVE A SMOOTH FINISH WITH BEVELED EDGES & SHALL BE SHAPED TO ALLOW COMPLETE DRAINAGE OF WATER. ANCHOR BOLT PROJECTIONS ABOVE CAP SHALL BE CLEANED OF ALL CONCRETE & FULLY USABLE THEIR FULL LENGTH.



TOP VIEW

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

OHM

Detroit

NO SCALE

DATE: 05/24/21

FILE:

JN: PW-7031
RIVERSIDE PARK

LIGHTING DETAIL SHEET
RIVERSIDE PARK

DRAWING: RIV L DET 001

SHEET: 119

GE Evolve®

LED Roadway Lighting

ERL1-ERLH-ERL2

Project name _____

Date _____

Type _____

E R L H _ _ _ _ – __ __ __ – ____ ___

PROD. ID	VOLTAGE	LUMEN OUTPUT	DISTRIBUTION*	CCT	CONTROLS	COLOR	OPTIONS
E = Evolve R = Roadway L = Local H = High Output	**0** = 120-277V* 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 H = 347-480*# * Not available with Fusing. Must choose a discrete voltage with F option. # **Not** available with E controls option.	10 11 **13** ROAD 14 15 16 See Table	**A3** = Type II Narrow **B3** = Type II Wide **C3** = Type III **D3** = Type IV **E3** = Type II Enhanced Back Light See Table *Nominal IES Type classing subject to typical variation, individual units may differ.	**27** = 2700K<>* **30** = 3000K<>* **40** = 4000K <> Select 2700K or 3000K CCT for IDA approved units.	**A** = ANSI C136.41 7-pin **D** = ANSI C136.41 7-pin with Shorting Cap **E** = ANSI C136.41 7-pin with non-Dimming PE Control.* *PE Control Only available for 120-277V or 480V Discrete. Not available for 347-480V. **NOTE:** Dimming controls wired for 0-10V standard unless DALI option "U" requested.	**GRAY** = Gray **BLCK** = Black **DKBZ** = Dark Bronze	A = 4 Bolt Slipfitter † F = Fusing G = Internal Bubble Level I = IP66 Optical L = Tool-Less Entry R = Secondary 10kV/5kA SPD T = Secondary 20kV/10kA SPD U = DALI Programmable +^ **V1** = Variable Output via Field Adjustable Module** X = Single Package # Y = Coastal Finish* **XXX** = Special Options † Contact manufacturer for Lead-Time. # "X" option provides single pack box per fixture. Std Packaging = 20 units per Magna pak container. * Recommended for installations within 750 ft. from the coast. Contact Factory for Lead-Time. + Compatible with LightGrid 2.0 nodes. ^ Not available in 347V, 480V or 347-480V. ** Not available with DALI (U) option.

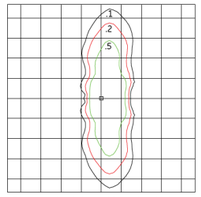
LUMEN OUTPUT	DISTRIBUTION	TYPICAL INITIAL LUMENS 4000K	3000K	2700K	TYPICAL SYSTEM WATTAGE 120-277V	347-480V	BUG RATING 4000K	3000K	2700K	IES FILE NUMBER 4000K	3000K	2700K
10	A3	10000	9600	9300	82		B2-U0-G2	B2-U0-G2	B2-U0-G2	ERLH_10A340____.IES	ERLH_10A330____.IES	ERLH_10A327____.IES
	B3						B2-U0-G2	B2-U0-G2	B2-U0-G2	ERLH_10B340____.IES	ERLH_10B330____.IES	ERLH_10B327____.IES
	C3						B2-U0-G3	B2-U0-G2	B2-U0-G2	ERLH_10C340____.IES	ERLH_10C330____.IES	ERLH_10C327____.IES
	D3						B1-U0-G3	B1-U0-G2	B1-U0-G2	ERLH_10D340____.IES	ERLH_10D330____.IES	ERLH_10D327____.IES
	E3						B3-U0-G3	B3-U0-G3	B3-U0-G3	ERLH_10E340____.IES	ERLH_10E330____.IES	ERLH_10E327____.IES
11	A3	11500	11000	10700	98		B3-U0-G3	B2-U0-G2	B2-U0-G2	ERLH_11A340____.IES	ERLH_11A330____.IES	ERLH_11A327____.IES
	B3						B3-U0-G3	B2-U0-G2	B2-U0-G2	ERLH_11B340____.IES	ERLH_11B330____.IES	ERLH_11B327____.IES
	C3						B2-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_11C340____.IES	ERLH_11C330____.IES	ERLH_11C327____.IES
	D3						B1-U0-G3	B1-U0-G2	B1-U0-G2	ERLH_11D340____.IES	ERLH_11D330____.IES	ERLH_11D327____.IES
	E3						B3-U0-G3	B3-U0-G3	B3-U0-G3	ERLH_11E340____.IES	ERLH_11E330____.IES	ERLH_11E327____.IES
13	A3	13000	12500	12100	111		B3-U0-G3	B3-U0-G3	B3-U0-G3	ERLH_13A340____.IES	ERLH_13A330____.IES	ERLH_13A327____.IES
	B3						B2-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_13B340____.IES	ERLH_13B330____.IES	ERLH_13B327____.IES
	C3						B2-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_13C340____.IES	ERLH_13C330____.IES	ERLH_13C327____.IES
	D3						B2-U0-G3	B1-U0-G3	B1-U0-G3	ERLH_13D340____.IES	ERLH_13D330____.IES	ERLH_13D327____.IES
	E3						B3-U0-G3	B3-U0-G3	B3-U0-G3	ERLH_13E340____.IES	ERLH_13E330____.IES	ERLH_13E327____.IES
14	A3	14000	13400	13000	122		B3-U0-G3	B3-U0-G3	B3-U0-G3	ERLH_14A340____.IES	ERLH_14A330____.IES	ERLH_14A327____.IES
	B3						B2-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_14B340____.IES	ERLH_14B330____.IES	ERLH_14B327____.IES
	C3						B2-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_14C340____.IES	ERLH_14C330____.IES	ERLH_14C327____.IES
	D3						B2-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_14D340____.IES	ERLH_14D330____.IES	ERLH_14D327____.IES
	E3						B3-U0-G3	B3-U0-G3	B3-U0-G3	ERLH_14E340____.IES	ERLH_14E330____.IES	ERLH_14E327____.IES
15	A3	15000	14400	13900	136		B3-U0-G3	B3-U0-G3	B3-U0-G3	ERLH_15A340____.IES	ERLH_15A330____.IES	ERLH_15A327____.IES
	B3						B3-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_15B340____.IES	ERLH_15B330____.IES	ERLH_15B327____.IES
	C3						B2-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_15C340____.IES	ERLH_15C330____.IES	ERLH_15C327____.IES
	D3						B2-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_15D340____.IES	ERLH_15D330____.IES	ERLH_15D327____.IES
	E3						B3-U0-G3	B3-U0-G3	B3-U0-G3	ERLH_15E340____.IES	ERLH_15E330____.IES	ERLH_15E327____.IES
16	A3	16000	15300	14900	149		B3-U0-G3	B3-U0-G3	B3-U0-G3	ERLH_16A340____.IES	ERLH_16A330____.IES	ERLH_16A327____.IES
	B3						B3-U0-G3	B3-U0-G3	B2-U0-G3	ERLH_16B340____.IES	ERLH_16B330____.IES	ERLH_16B327____.IES
	C3						B2-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_16C340____.IES	ERLH_16C330____.IES	ERLH_16C327____.IES
	D3						B2-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_16D340____.IES	ERLH_16D330____.IES	ERLH_16D327____.IES
	E3						B3-U0-G3	B3-U0-G3	B3-U0-G3	ERLH_16E340____.IES	ERLH_16E330____.IES	ERLH_16E327____.IES

Photometrics:

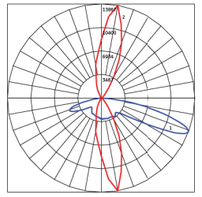
Evolve® LED Streetlight (ERLH)

ERLH
Type II Narrow
(13A340)

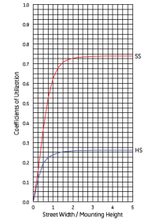
13,000 Lumens
4000K
ERLH_13A340___.IES



Grid Distance in Units of Mounting Height at 30'
Initial Footcandle Values at Grade

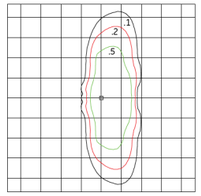


– Vertical plane through horizontal angle of Max. Cd at 80°
– Horizontal cone through vertical angle of Max. Cd at 69°

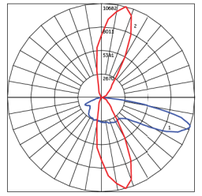


ERLH
Type II Wide
(13B340)

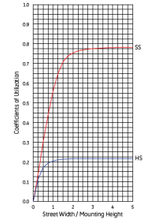
13,000 Lumens
4000K
ERLH_13B340___.IES



Grid Distance in Units of Mounting Height at 30'
Initial Footcandle Values at Grade

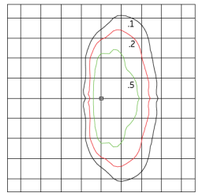


– Vertical plane through horizontal angle of Max. Cd at 75°
– Horizontal cone through vertical angle of Max. Cd at 72°

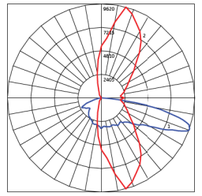


ERLH
Type III
(13C340)

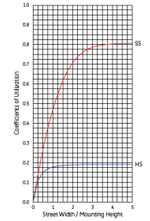
13,000 Lumens
4000K
ERLH_13C340___.IES



Grid Distance in Units of Mounting Height at 30'
Initial Footcandle Values at Grade

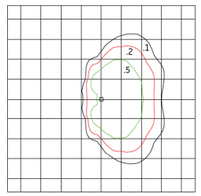


– Vertical plane through horizontal angle of Max. Cd at 75°
– Horizontal cone through vertical angle of Max. Cd at 71°

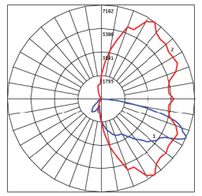


ERLH
Type IV
13D340

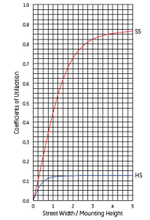
13,000 Lumens
4000K
ERLH_13D340___.IES



Grid Distance in Units of Mounting Height at 30'
Initial Footcandle Values at Grade

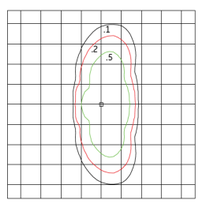


– Vertical plane through horizontal angle of Max. Cd at 55°
– Horizontal cone through vertical angle of Max. Cd at 65°

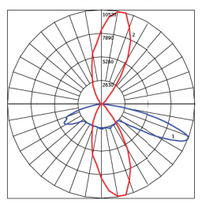


ERLH
Type II Enhanced Back Light
13E340

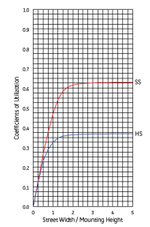
13,000 Lumens
4000K
ERLH_13E340___.IES



Grid Distance in Units of Mounting Height at 30'
Initial Footcandle Values at Grade



– Vertical plane through horizontal angle of Max. Cd at 75°
– Horizontal cone through vertical angle of Max. Cd at 69°



FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

OHM

Detroit

NO SCALE

DATE: 05/24/21

FILE:

JN: PW-7031
RIVERSIDE PARK

LIGHTING DETAIL SHEET
RIVERSIDE PARK

DRAWING: RIV L DET 002

SHEET: 120

GE Evolve®

LED Roadway Lighting

ERL1-ERLH-ERL2

Project name _____

Date _____

Type _____

E R L H _ _ _ _ – __ __ __ – ____ ___

PROD. ID	VOLTAGE	LUMEN OUTPUT	DISTRIBUTION*	CCT	CONTROLS	COLOR	OPTIONS
E = Evolve R = Roadway L = Local H = High Output	**0** = 120-277V* 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 H = 347-480*# * Not available with Fusing. Must choose a discrete voltage with F option. # **Not** available with E controls option.	**10** PED 11 13 14 15 16 See Table	**A3** = Type II Narrow **B3** = Type II Wide **C3** = Type III **D3** = Type IV **E3** = Type II Enhanced Back Light See Table *Nominal IES Type classing subject to typical variation, individual units may differ.	**27** = 2700K<>* **30** = 3000K<>* **40** = 4000K <> Select 2700K or 3000K CCT for IDA approved units.	**A** = ANSI C136.41 7-pin **D** = ANSI C136.41 7-pin with Shorting Cap **E** = ANSI C136.41 7-pin with non-Dimming PE Control.* *PE Control Only available for 120-277V or 480V Discrete. Not available for 347-480V. **NOTE:** Dimming controls wired for 0-10V standard unless DALI option "U" requested.	**GRAY** = Gray **BLCK** = Black **DKBZ** = Dark Bronze	A = 4 Bolt Slipfitter † F = Fusing G = Internal Bubble Level I = IP66 Optical L = Tool-Less Entry R = Secondary 10kV/5kA SPD T = Secondary 20kV/10kA SPD U = DALI Programmable +^ **V1** = Variable Output via Field Adjustable Module** **X** = Single Package # **Y** = Coastal Finish* **XXX** = Special Options † Contact manufacturer for Lead-Time. # "X" option provides single pack box per fixture. Std Packaging = 20 units per Magna pak container. * Recommended for installations within 750 ft. from the coast. Contact Factory for Lead-Time. + Compatible with LightGrid 2.0 nodes. ^ Not available in 347V, 480V or 347-480V. ** Not available with DALI (U) option.

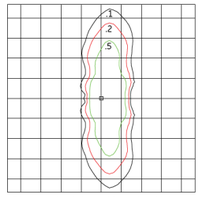
LUMEN OUTPUT	DISTRIBUTION	TYPICAL INITIAL LUMENS 4000K	3000K	2700K	TYPICAL SYSTEM WATTAGE 120-277V	347-480V	BUG RATING 4000K	3000K	2700K	IES FILE NUMBER 4000K	3000K	2700K
10	A3	10000	9600	9300	82		B2-U0-G2	B2-U0-G2	B2-U0-G2	ERLH_10A340___.IES	ERLH_10A330___.IES	ERLH_10A327___.IES
	B3						B2-U0-G2	B2-U0-G2	B2-U0-G2	ERLH_10B340___.IES	ERLH_10B330___.IES	ERLH_10B327___.IES
	C3						B2-U0-G3	B2-U0-G2	B2-U0-G2	ERLH_10C340___.IES	ERLH_10C330___.IES	ERLH_10C327___.IES
	D3						B1-U0-G3	B1-U0-G2	B1-U0-G2	ERLH_10D340___.IES	ERLH_10D330___.IES	ERLH_10D327___.IES
	E3						B3-U0-G3	B3-U0-G3	B3-U0-G3	ERLH_10E340___.IES	ERLH_10E330___.IES	ERLH_10E327___.IES
11	A3	11500	11000	10700	98		B3-U0-G3	B2-U0-G2	B2-U0-G2	ERLH_11A340___.IES	ERLH_11A330___.IES	ERLH_11A327___.IES
	B3						B3-U0-G3	B2-U0-G2	B2-U0-G2	ERLH_11B340___.IES	ERLH_11B330___.IES	ERLH_11B327___.IES
	C3						B2-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_11C340___.IES	ERLH_11C330___.IES	ERLH_11C327___.IES
	D3						B1-U0-G3	B1-U0-G2	B1-U0-G2	ERLH_11D340___.IES	ERLH_11D330___.IES	ERLH_11D327___.IES
	E3						B3-U0-G3	B3-U0-G3	B3-U0-G3	ERLH_11E340___.IES	ERLH_11E330___.IES	ERLH_11E327___.IES
13	A3	13000	12500	12100	111		B3-U0-G3	B3-U0-G3	B3-U0-G3	ERLH_13A340___.IES	ERLH_13A330___.IES	ERLH_13A327___.IES
	B3						B3-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_13B340___.IES	ERLH_13B330___.IES	ERLH_13B327___.IES
	C3						B2-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_13C340___.IES	ERLH_13C330___.IES	ERLH_13C327___.IES
	D3						B2-U0-G3	B1-U0-G3	B1-U0-G3	ERLH_13D340___.IES	ERLH_13D330___.IES	ERLH_13D327___.IES
	E3						B3-U0-G3	B3-U0-G3	B3-U0-G3	ERLH_13E340___.IES	ERLH_13E330___.IES	ERLH_13E327___.IES
14	A3	14000	13400	13000	122		B3-U0-G3	B3-U0-G3	B3-U0-G3	ERLH_14A340___.IES	ERLH_14A330___.IES	ERLH_14A327___.IES
	B3						B3-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_14B340___.IES	ERLH_14B330___.IES	ERLH_14B327___.IES
	C3						B2-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_14C340___.IES	ERLH_14C330___.IES	ERLH_14C327___.IES
	D3						B2-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_14D340___.IES	ERLH_14D330___.IES	ERLH_14D327___.IES
	E3						B3-U0-G3	B3-U0-G3	B3-U0-G3	ERLH_14E340___.IES	ERLH_14E330___.IES	ERLH_14E327___.IES
15	A3	15000	14400	13900	136		B3-U0-G3	B3-U0-G3	B3-U0-G3	ERLH_15A340___.IES	ERLH_15A330___.IES	ERLH_15A327___.IES
	B3						B3-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_15B340___.IES	ERLH_15B330___.IES	ERLH_15B327___.IES
	C3						B2-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_15C340___.IES	ERLH_15C330___.IES	ERLH_15C327___.IES
	D3						B2-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_15D340___.IES	ERLH_15D330___.IES	ERLH_15D327___.IES
	E3						B3-U0-G3	B3-U0-G3	B3-U0-G3	ERLH_15E340___.IES	ERLH_15E330___.IES	ERLH_15E327___.IES
16	A3	16000	15300	14900	149		B3-U0-G3	B3-U0-G3	B3-U0-G3	ERLH_16A340___.IES	ERLH_16A330___.IES	ERLH_16A327___.IES
	B3						B3-U0-G3	B3-U0-G3	B2-U0-G3	ERLH_16B340___.IES	ERLH_16B330___.IES	ERLH_16B327___.IES
	C3						B2-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_16C340___.IES	ERLH_16C330___.IES	ERLH_16C327___.IES
	D3						B2-U0-G3	B2-U0-G3	B2-U0-G3	ERLH_16D340___.IES	ERLH_16D330___.IES	ERLH_16D327___.IES
	E3						B3-U0-G3	B3-U0-G3	B3-U0-G3	ERLH_16E340___.IES	ERLH_16E330___.IES	ERLH_16E327___.IES

Photometrics:

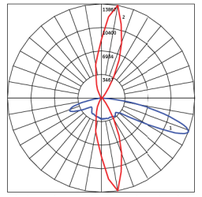
Evolve® LED Streetlight (ERLH)

ERLH
Type II Narrow
(13A340)

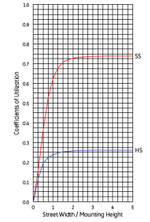
13,000 Lumens
4000K
ERLH_13A340___.IES



Grid Distance in Units of Mounting Height at 30'
Initial Footcandle Values at Grade

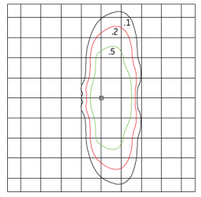


– Vertical plane through horizontal angle of Max. Cd at 80°
– Horizontal cone through vertical angle of Max. Cd at 69°

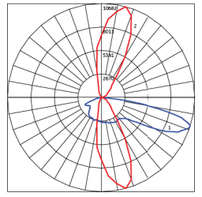


ERLH
Type II Wide
(13B340)

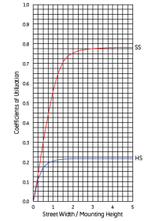
13,000 Lumens
4000K
ERLH_13B340___.IES



Grid Distance in Units of Mounting Height at 30'
Initial Footcandle Values at Grade

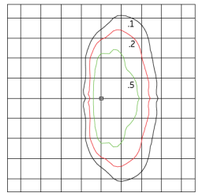


– Vertical plane through horizontal angle of Max. Cd at 75°
– Horizontal cone through vertical angle of Max. Cd at 72°

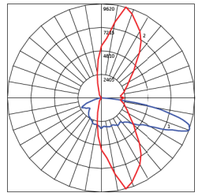


ERLH
Type III
(13C340)

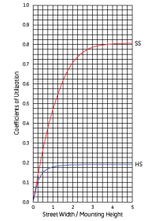
13,000 Lumens
4000K
ERLH_13C340___.IES



Grid Distance in Units of Mounting Height at 30'
Initial Footcandle Values at Grade

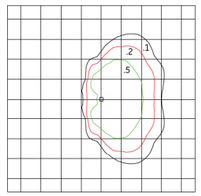


– Vertical plane through horizontal angle of Max. Cd at 75°
– Horizontal cone through vertical angle of Max. Cd at 71°

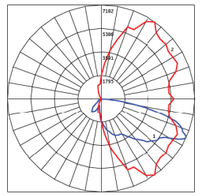


ERLH
Type IV
13D340

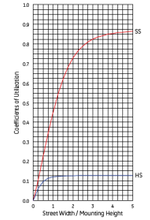
13,000 Lumens
4000K
ERLH_13D340___.IES



Grid Distance in Units of Mounting Height at 30'
Initial Footcandle Values at Grade

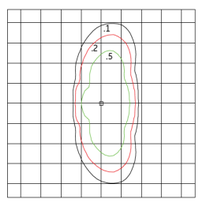


– Vertical plane through horizontal angle of Max. Cd at 55°
– Horizontal cone through vertical angle of Max. Cd at 65°

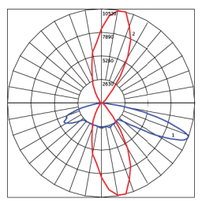


ERLH
Type II Enhanced Back Light
13E340

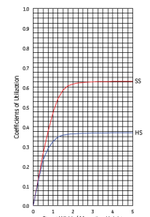
13,000 Lumens
4000K
ERLH_13E340___.IES



Grid Distance in Units of Mounting Height at 30'
Initial Footcandle Values at Grade



– Vertical plane through horizontal angle of Max. Cd at 75°
– Horizontal cone through vertical angle of Max. Cd at 69°



FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

OHM

Detroit

NO SCALE

DATE: 05/24/21

FILE:

JN: PW-7031
RIVERSIDE PARK

LIGHTING DETAIL SHEET
RIVERSIDE PARK

DRAWING: RIV L DET 003

SHEET: 121

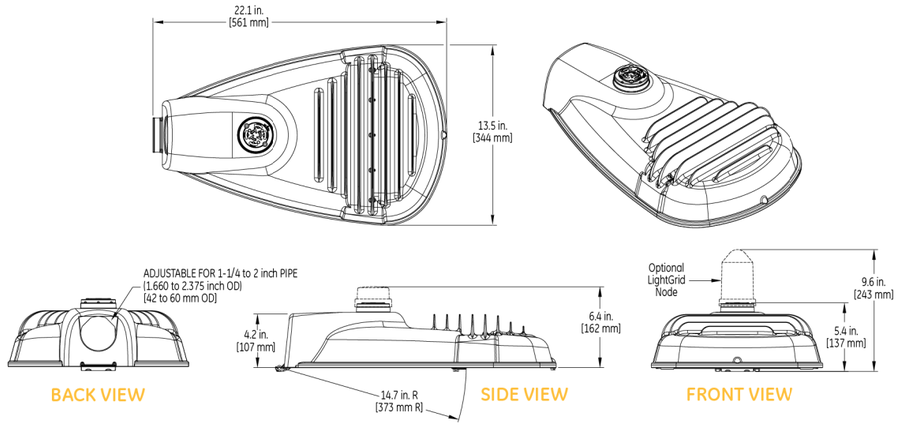
GE Evolve®

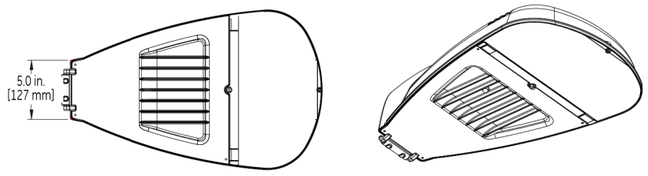
LED Roadway Lighting

ERL1-ERLH-ERL2

Product Dimensions:

Evolve® LED Streetlight (ERLH)





DATA

- Approximate net weight: 15.15 lbs (6.9 kgs) - 2 Bolt Slipfitter
- Approximate net weight: 15.85 lbs (7.2 kgs) - 4 Bolt Slipfitter
- Effective Projected Area (EPA): 0.5 sq ft max (0.046 sq m)

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)											
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION	OHM	Detroit	NO SCALE	DATE: 05/24/21
											FILE:

JN: PW-7031 RIVERSIDE PARK	LIGHTING DETAIL SHEET RIVERSIDE PARK	DRAWING RIV L DET 004	SHEET 122

SIM*pull* THHN® Aluminum THHN Wire & Cable with Alumaflex® Brand Conductors

600 Volt Alumaflex® Brand Aluminum Alloy (AA-8176) Conductor. Thermoplastic Insulation/SIM Nylon Sheath, Heat, Moisture, Gasoline and Oil Sunlight Resistant. Also Rated THWN-2. SIM Technology® for Easier Pulling

APPLICATIONS

Southwire SIM*pull* THHN® Aluminum THHN Wire & Cable with Alumaflex® Brand conductors are primarily used in conduit and cable trays for services, feeders and branch circuits in commercial or industrial applications as specified in the 2011 National Electrical Code. When used as Type THHN or T90 Nylon conductor is suitable for use in dry locations at temperatures not to exceed 90°C. When used as Type THWN-2 or TWN75, conductor is suitable for use in wet or dry locations at temperatures not to exceed 90°C or not to exceed 75°C when exposed to oil or coolant. Voltage for all applications is 600 volts. This cable should be installed without application of pulling lubricant.

STANDARDS & REFERENCES

Southwire Aluminum SIM*pull* THHN® conductors comply with the following:

- ASTM B-800 and B-801
- UL Standard 83
- CSA
- Federal Specification A-A-59544
- VW-1 – Sizes 4 through 1 AWG
- CT - Sizes 1/0 AWG and larger Sizes Rated for CT use
- FT1 - Sizes 4 AWG through 750 kcmil
- T90 Nylon – Sizes 4 AWG through 750 kcmil
- TWN 75 – Sizes 8 AWG through 750 kcmil
- National Electrical Code, NFPA 70, 2011 Edition
- NEMA WC-70 Construction Requirements
- RoHS/Reach Compliant

CONSTRUCTION

Southwire SIM*pull* THHN® conductors are AlumaFlex® Brand AA-8000 series aluminum alloy, compact stranded. Insulated with a tough heat and moisture-resistant polyvinyl chloride (PVC), over which a SIM (SLIKQWIK® Infused Membrane) nylon (polyamide) or UL-listed equal jacket is applied. Conductor sizes 1/0 AWG and larger are listed and marked sunlight resistant in colors. Available in black, white, red, blue, purple, green, yellow, orange, brown, and gray. Also available in striped configurations. Some colors are subject to economic order quantity.

The Power of Connections.™

Southwire®

Conductor		Insulation Thickness (mils)	Jacket Thickness (mils)	Nominal O.D. (mils)	Net Wt. Per 1000' (lbs.)	Allowable Ampacities+			Standard Package
Size (AWG or kcm)	No. of strands					60°C	75°C	90°C	
8	7	30	5	204	27	35	40	45	B
6	7	30	5	239	38	40	50	60	C
4	7	40	6	305	62	55	65	75	BCD
2	7	40	6	360	91	75	90	100	BC
1	18	50	7	413	117	85	100	115	BC
1/0	18	50	7	450	141	100	120	135	BCD
2/0	18	50	7	490	172	115	135	150	BCD
3/0	18	50	7	537	210	130	155	175	BCD
4/0	18	50	7	589	257	150	180	205	BCD
250	22	60	8	656	311	170	205	230	ABC
300	35	60	8	706	365	190	230	255	BC
350	35	60	8	752	418	210	250	280	BC
400	35	60	8	795	471	225	270	305	BC
500	35	60	8	872	576	260	310	350	BC
600	58	70	9	971	700	285	340	385	BC
700	58	70	9	1035	804	310	375	420	C
750	58	70	9	1066	856	320	385	435	ABC
900	58	70	9	1139	1013	355	425	480	N/A
1000	58	70	9	1218	1117	375	445	500	N/A

+ Allowable Ampacities shown are for general use as specified by the National Electrical Code 2011 Edition, Section 310.15 and 240.4(D). Unless the equipment is marked for use at higher temperatures, the conductor ampacities shall be limited to the follwing per NEC 110.14(C): 60°C - When terminated to equipment for circuits rated 100 amperes or less marked for 14 through 1 AWG conductors. 75°C - When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than 1 AWG. 90°C - THHN dry locations and THWN wet or dry locations for ampacity adjustment purposes using NEC section 310.15.

Package Codes
A-500'
B-2,500'
C-1,000'
D-5,000'

RECOMMENDED SAMPLE SPECIFICATIONS:
Conductors shall be UL-listed Type THHN and THWN-2, suitable for operation at 600 volts, as specified in the National Electrical Code. Sizes 8 through 1 AWG shall be rated VW-1, larger sizes shall be rated for CT Use. Conductors shall be AlumaFlex aluminum alloy, insulated with high-heat and moisture resistant PVC, jacketed with abrasion, moisture, gasoline, and oil resistant nylon or UL-listed equivalent as manufactured by Southwire Company or approved equal.

The Power of Connections.™

Southwire®

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One Southwire Drive, Carrollton, GA 30119, USA

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

OHM

Detroit

NO SCALE

DATE: 05/24/21

FILE:

JN: PW-7031
RIVERSIDE PARK

LIGHTING DETAIL SHEET
RIVERSIDE PARK

DRAWING: RIV L DET 005

SHEET: 123

Conductor		
Size (AWG or kcmil)	No. of strands	Stock Numbers
8	7	**Stock #: N/A**
6	7	**Stock #: BK:563768, RD:573834, BE:573835, WE:578332, GN:566358**
4	7	**Stock #: BK:563769, RD:573544, BE:573833, WE:577628, GN:562211**
2	7	**Stock #: BK:563770, RD:573541, BE:573542, WE:563493, BN:587026, OE:587027, YW:587028, GY:578329, GN:562745**
1	18	**Stock #: BK:563771, RD:583155, BE:583156, WE:578328, BN:587023, OE:587024, YW:587025, GY:578327, GN:562746**
1/0	18	**Stock #: BK:562747, RD:562748, BE:562749, WE:562750, BN:562753, OE:562754, YW:562752, GY:562755, GN:562756, PE:573380**
2/0	18	**Stock #: BK:562212, RD:562214, BE:562621, WE:562213, BN:562758, OE:562759, YW:562757, GY:562760, GN:562761, PE:573370**
3/0	18	**Stock #: BK:562663, RD:562665, BE:562666, WE:562664, BN:562763, OE:562764, YW:562762, GY:562765, GN:562766, PE:573371**
4/0	18	**Stock #: BK:562671, RD:562673, BE:562674, WE:562672, BN:561805, OE:561806, YW:561807, GY:562767, GN:562768, PE:573372**
250	22	**Stock #: BK:560444, RD:562626, BE:562627, WE:562625, BN:561863, OE:561864, YW:561865, GY:561866, GN:561867, PE:573373**
300	35	**Stock #: BK:562667, RD:562669, BE:562670, WE:562668, BN:562771, OE:562772, YW:562770, GY:562773, GN:562774, PE:573374**
350	35	**Stock #: BK:560443, RD:562623, BE:562624, WE:562622, BN:561858, OE:561859, YW:561861, GY:561862, GN:562775, PE:573375**
400	35	**Stock #: BK:562677, RD:562776, BE:562778, WE:562779, BN:562781, OE:562782, YW:562780, GY:562783, GN:562699, PE:573376**
500	35	**Stock #: BK:560442, RD:562696, BE:562697, WE:562698, BN:561853, OE:561854, YW:561855, GY:561856, GN:561857, PE:573377**
600	58	**Stock #: BK:560441, RD:562630, BE:562631, WE:562628, BN:561847, OE:561848, YW:561849, GY:561850, GN:561851, PE:573379**
700	58	**Stock #: BK:562689, RD:562690, BE:562691, WE:562692, BN:561843, OE:561844, YW:561846, GY:562693**
750	58	**Stock #: BK:562632, RD:562634, BE:562635, WE:562633, BN:561838, OE:561839, YW:561840, GY:561841, GN:561842, PE:573481**
900	58	**Stock #: BK:562679, RD:562681, BE:562682, WE:562683, BN:561782, OE:561783, YW:561785, GY:561786, GN:562684**
1000	58	**Stock #: BK:562680, BN:564280, OE:564281, YW:564282, GY:564283**

Color Abbreviations

BK-Black RD-Red BE-Blue WE-White BN-Brown
OE-Orange YW-Yellow GY-Grey GN-Green

The Power of Connections.™

Southwire®

Triplex XLPE Service Drop. AAC Neutral - Messenger

Aluminum Conductors With Crosslinked Polyethylene Insulation.

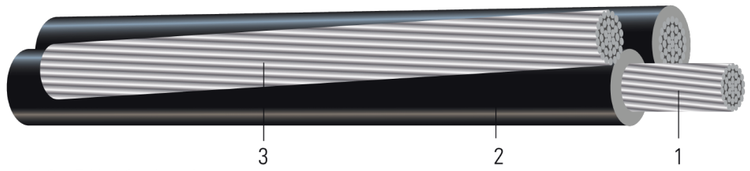

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Conductors are stranded, compressed 1350-H19 aluminum
2. **Insulation:** Cross Linked Polyethylene (XLPE)
3. **Messenger:** AAC Neutral

APPLICATIONS AND FEATURES:

Used to supply power, usually from a pole-mounted transformer, to the user's service head where connection to the service entrance cable is made. To be used at voltages of 600 volts phase-to-phase or less and at conductor temperatures 90°C for crosslinked polyethylene (XLP) insulated conductors.

SPECIFICATIONS:

- ASTM B230 Aluminum, 1350-H19 Wire for Electrical Purposes
- ASTM B231 Standard Specification for Concentric-Lay-Stranded Aluminum 1350 Conductors
- ASTM B901 Standard Specification for Compressed Round Stranded Aluminum Conductors Using Single Input Wire Construction. *(The number of strands for both phase and neutral may differ)*
- ICEA S-76-474 Standard for Neutral-Supported Power Cable Assemblies with Weather-Resistant Extruded Insulation Rated 600V

Stock # : 104729

SPEC 83227

Table 1 – Weights and Measurements

Stock Number	Code Word	Phase Cond. Size	Phase Strand	Dia. Over Phase Conductor	Phase Insul. Thickness	Dia. Over Phase Insulation	Neutral Cond. Size	Approx. OD	Approx. Weight
		AWG/Kcmil	No.	inch	mil	inch	AWG/Kcmil	inch	lb/1000ft
104729	Oyster	4	7	0.225	45	0.315	4	0.68	154

All dimensions are nominal and subject to normal manufacturing tolerances
1. The actual number of strands may differ for single input wire per ASTM B901

Table 2 – Electrical and Engineering Data

Stock Number	Code Word	Phase Cond. Size	Neutral Rated Breaking Strength	DC Resistance @ 25°C	AC Resistance @ 90°C	Inductive Reactance @ 60Hz	GMR	Allowable Ampacity In Air 90°C
		AWG/Kcmil	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	ft	Amp
104729	Oyster	4	881	0.4183	0.5363	0.031	0.0068	115

Notes:
1. DC resistances include a 1% length factor for plexing.
2. Inductive reactance assumes the neutral is carrying current.
3. Phase conductors assumed to be reverse lay stranded, compressed construction.
4. Phase spacing assumes cables are touching.
5. Resistances shown are for the phase conductor only.
6. Sizes of AAAC neutrals are not the AAAC size, but are the size of an ACSR of equal diameter.
7. Ampacity based on conductor temperature of 90°; ambient temperature of 40°C; emissivity 0.9; 2 ft./sec. wind in sun.

Neutral Code Word

Size-Strands	Code Word	OD (inches)
#6-7	Peachbell	0.184
#4-7	Rose	0..232
#2-7	Iris	0.292
1/0-7	Poppy	0.368
2/0-7	Aster	0.414
3/0-19	Primrose	0.470
4/0-19	Sunflower	0.528
336.4-19	Tulip	0.665

We've got it MADE IN AMERICA

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Southwire CABLETECH SUPPORT™ Services

SPEC 83227 DATE: 02/06/2021 19:06 UTC Rev:

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION
1	06/04/21		WIRE SIZE CHANGE				

OHM

Detroit

NO SCALE

DATE: 05/24/21

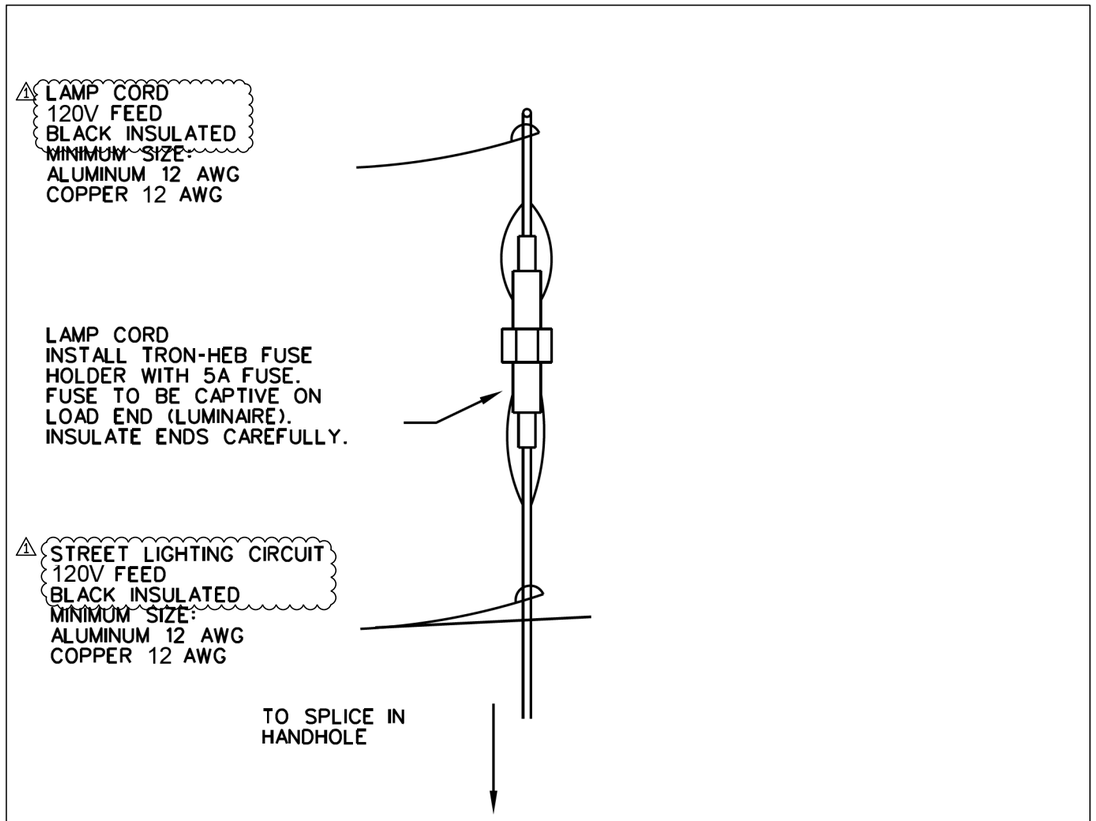
FILE:

JN: PW-7031
RIVERSIDE PARK

LIGHTING DETAIL SHEET
RIVERSIDE PARK

DRAWING: RIV L DET 007

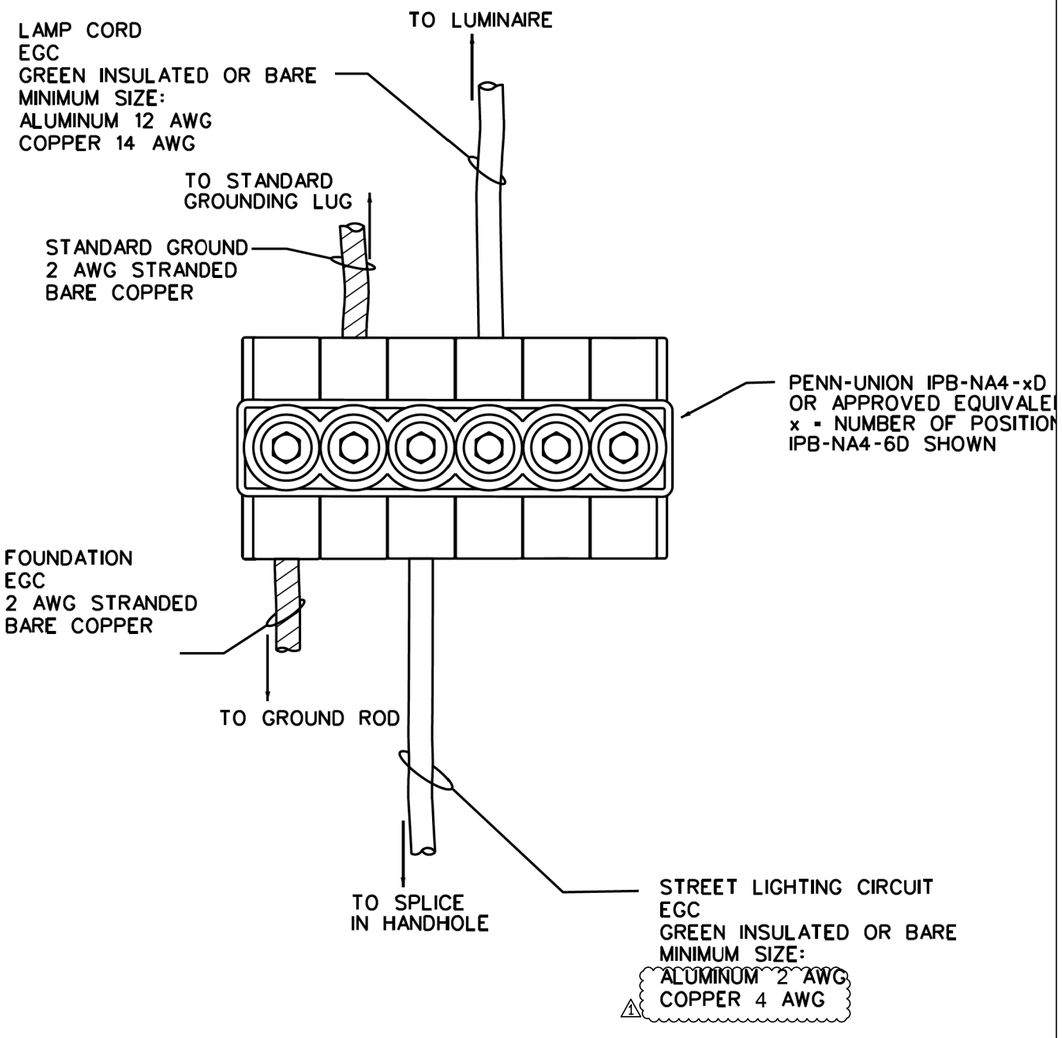
SHEET: 125



** ALL CABLES TO BE SIZED AT MINIMUM SIZE OR AS INDICATED ON PLANS
** ADDITIONAL LUMINAIRES REQUIRE ADDITIONAL FUSE HOLDERS

LUMINAIRE
1 120V POWER FEED
POLE BASE CONNECTION

NOT TO SCALE



** ALL CABLES TO BE SIZED AT MINIMUM SIZE OR AS INDICATED ON PLANS
** SIZE THE POWER BAR AS NEEDED FOR LUMINAIRES AND RECEPTACLE

EQUIPMENT GROUND CONDUCTOR (EGC)
POLE BASE CONNECTION

NOT TO SCALE

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION
1	06/04/21		WIRE SIZE REVISIONS				

OHM | Detroit | NO SCALE | DATE: 05/24/21 | FILE: | JN: PW-7031 RIVERSIDE PARK | LIGHTING DETAIL SHEET RIVERSIDE PARK | DRAWING: RIV L DET 008 | SHEET: 126

SIM*pull* XHHW-2®

Aluminum XHHW Wire & Cable

1000 Volts / 600 Volts Alumaflex® Brand Aluminum Alloy (AA-8176) Conductor. Cross-linked Polyethylene (XLPE) Insulation. Moisture Resistant High Heat.

APPLICATIONS

Southwire® SIM*pull* XHHW-2® aluminum conductors are primarily used in conduit or recognized raceways for service and feeder wiring as specified in the National Electrical Code. XHHW-2 conductors may be used in wet or dry locations at temperatures not to exceed 90°C. Voltage rating for XHHW-2 conductors is 1000 volts. Suitable for use in Health Care Facilities per section 517.160 of the NEC where a dielectric constant of 3.5 or less may be specified. This product is designed to be installed without the application of pulling lubricant.

STANDARDS & REFERENCES

Southwire SIM*pull*® Aluminum Type XHHW-2 conductors comply with the following:

- ASTM – B800 and either B801 or B836 (SIW)
- Listed per UL Standard 44
- NOM-ANCE 90° C
- Federal Specification A-A-59544
- National Electrical Code, NFPA 70
- NEMA WC-70 (ICEA S-95-658) Construction Requirements
- CT Rated - Sizes 1/0 AWG and larger
- FT4 Rated - Sizes 1/0 AWG and larger
- Gas & Oil Resistant II - All Sizes
- Sunlight Resistant – Sizes 6 AWG and larger
- RoHS/Reach Compliant

CONSTRUCTION

Southwire Type XHHW-2 aluminum conductors are Alumaflex® brand AA-8000 series aluminum alloy, compact stranded. The insulation is an abrasion, moisture and heat resistant SIM*pull*® thermoset cross-linked polyethylene. Conductor sizes 6 AWG and larger are listed and marked sunlight resistant in all colors. Available in black, white, red, blue, brown, orange, yellow, purple, gray, and green. Some colors are subject to economic order quantity.

Revised 12/3/2019

The Power of Connections.™

Southwire®

Conductor		Insulation Thickness (mils)	Nominal O.D. (mils)	Approx. Net Wt. Per 1000' (lbs.)	Allowable Ampacities+			Standard Package
Size (AWG or kcmil)	No. of strands				60°C	75°C	90°C	
8	7	45	227	30	35	40	45	BCD
6	7	45	259	39	40	50	55	BCD
4	7	45	303	57	55	65	75	BCD
2	6	45	358	85	75	90	100	BCD
1	8	55	413	108	85	100	115	BC
1/0	10	80	450	180	115	135	150	ABC
2/0	12	55	490	161	115	135	150	ABCD
3/0	16	55	537	198	130	155	175	BCD
4/0	19	55	589	243	150	180	205	ABCD
250	22	55	650	293	170	205	230	BCD
300	35	65	700	346	195	230	260	BC
350	35	65	746	398	210	250	280	BCD
400	35	65	789	449	225	270	305	CD
500	35	65	866	552	260	310	350	ABCDE
600	58	80	973	675	285	340	385	ABD
700	58	80	1037	777	315	375	425	N/A
750	58	80	1068	829	320	385	435	ABCE
900	58	80	1162	979	355	425	480	N/A
1000	58	80	1220	1085	375	445	500	C

+ Allowable Ampacities shown are for general use as specified by the National Electrical Code, Sections 310.15 and 240.4(D). Unless the equipment is marked for use at higher temperatures, the conductor ampacities shall be limited to the follwing per NEC 110.14(C): 60°C - When terminated to equipment for circuits rated 100 amperes or less marked for 14 through 1 AWG conductors. 75°C - When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than 1 AWG. 90°C - THHN dry locations and THWN wet or dry locations for ampacity adjustment purposes using NEC section 310.15.

Package Codes
A-500'
B-2,500'
C-1,000'
D-5,000'

RECOMMENDED SAMPLE SPECIFICATIONS:
Conductors shall be UL-listed Type XHHW-2, suitable for operation at 1000 volts or less in wet or dry locations at temperatures not to exceed 90 ºC. Conductors shall be annealed Alumaflex® brand aluminum alloy as manufactured by Southwire Company or approved equal.

Revised 12/3/2019

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One Southwire Drive, Carrollton, GA 30119, USA

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

OHM | Detroit | NO SCALE | DATE: 05/24/21 | JN: PW-7031 RIVERSIDE PARK | LIGHTING DETAIL SHEET RIVERSIDE PARK | DRAWING: RIV L DET 009 | SHEET: 127

FILE:

Conductor		
Size (AWG or kcmil)	No. of strands	Stock Numbers
8	7	**Stock #: N/A**
6	7	**Stock #: BK:112706, BN:591209, OE:591210, YW:591211, GN:585321**
4	7	**Stock #: BK:112714, RD:591114, BE:591115, WE:591116, BN:591201, OE:591202, YW:591203, GN:585320**
2	7	**Stock #: BK:112722, BN:591213, OE:591214, YW:591215, GN:585319**
1	18	**Stock #: BK:112730, RD:591204, BE:591205, WE:591206, BN:591207, OE:591208, YW:591216, GN:585318, GY:596497**
1/0	18	**Stock #: BK:112748, RD:591284, BE:591285, WE:591286, BN:585291, OE:585292, YW:585293, GY:585294, GN:585290, PE:596423**
2/0	18	**Stock #: BK:112755, RD:591288, BE:591289, WE:591290, BN:585296, OE:585297, YW:585298, GY:585300, GN:585295, PE:596422**
3/0	18	**Stock #: BK:112763, RD:585302, BE:585303, WE:585304, BN:585305, OE:585306, YW:585308, GY:585309, GN:585301, PE:596421**
4/0	18	**Stock #: BK:112771, RD:585317, BE:585316, WE:585314, BN:585313, OE:585312, YW:585311, GY:585310, GN:567439, PE:592563**
250	22	**Stock #: BK:278341, RD:576390, BE:576391, WE:576392, BN:576385, OE:576386, YW:576387, GY:576388, GN:567440, PE:592468**
300	35	**Stock #: BK:278358, RD:576382, BE:576383, WE:576384, BN:576133, OE:576134, YW:576135, GY:576136, GN:576361, PE:593380**
350	35	**Stock #: BK:278366, RD:576378, BE:576379, WE:576380, BN:576374, OE:576375, YW:576376, GY:576377, GN:567437, PE:592562**
400	35	**Stock #: BK:278374, RD:576370, BE:576372, WE:576373, BN:576127, OE:576129, YW:576130, GY:576131, GN:567384, PE:593379**
500	35	**Stock #: BK:278382, RD:576367, BE:576368, WE:576369, BN:576362, OE:576364, YW:576365, GY:576366, GN:576394, PE:589196**
600	58	**Stock #: BK:278390, RD:576350, BE:576351, WE:576352, BN:576345, OE:576346, YW:576347, GY:576349, GN:567375, PE:589197**
700	58	**Stock #: BK:278408, RD:591293, BE:591294, WE:591295, BN:576341, OE:576342, YW:576343, GY:576344, GN:591296**
750	58	**Stock #: BK:278416, RD:592233, BE:592234, WE:592235, BN:567432, OE:567433, YW:567434, GY:567435, GN:567436, PE:592469**
900	58	**Stock #: BK:554059, BN:560445, OE:560446, YW:560447, GY:560448, PE:596424**
1000	58	**Stock #: BK:278424**

Color Abbreviations

BK-Black RD- Red BE-Blue WE-White BN-Brown
OE-Orange YW- Yellow GY-Grey GN-Green PE-Purple

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NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

OHM

Detroit

NO SCALE

DATE: 05/24/21

FILE:

JN: PW-7031
RIVERSIDE PARK

LIGHTING DETAIL SHEET
RIVERSIDE PARK

DRAWING: RIV L DET 010

SHEET: 128

SIM*pull* THHN®

Copper THHN Wire & Cable

600 Volts. Copper Conductor. Thermoplastic Insulation/Nylon Sheath, Heat, Moisture, Gasoline and Oil Resistant II. All Sizes Rated Both THHN and either THWN (sizes 14, 12, and 10 AWG) or THWN-2 (sizes 8 AWG and larger). Also Rated MTW and AWM (See Below). SIMpull® Technology for Easier Pulling.

APPLICATIONS

Southwire® SIM*pull* THHN® copper conductors are primarily used in conduit and cable trays for services, feeders and branch circuits in commercial or industrial applications as specified in the National Electrical Code. Voltage for all applications is 600 volts. SIM*pull* THHN® copper conductors are designed to be installed without application of a pulling lubricant.

These conductors have multiple ratings. Depending upon the product application, allowable temperatures are as follows:

- THHN or T90 Nylon- Dry locations not to exceed 90° C
- THWN-2- Wet or dry locations not to exceed 90° C or locations not to exceed 75° C when exposed to oil
- THWN- Wet locations not to exceed 75° C or dry locations not to exceed 90° C or locations not to exceed 75° C when exposed to oil
- TWN75- Wet locations not to exceed 75° C
- MTW- Wet locations or when exposed to oil at temperatures not to exceed 60° C or dry locations not to exceed 90° C (with ampacity limited to that for 75° C conductor temperature per NFPA 79)
- AWM- Dry locations not to exceed 105° C only when rated and used as appliance wiring material

STANDARDS & REFERENCES

Southwire® SIM*pull* THHN® copper conductors comply with the following:

- ASTM - B3, B8, and B787 (19 Wire Combination Unilay-Stranded)
- UL Standards 83, 758, 1063, and 1581
- CSA C22.2 No. 75, T90 Nylon/TWN75 Sizes through 1000 kcmil
- NOM-ANCE 90° C
- Federal Specification A-A-59544
- NEMA WC-70 (ICEA S-95-658) Construction Requirements
- National Electrical Code, NFPA 70
- CT Rated in Sizes 1/0 AWG and larger
- VW-1 - Sizes 14 through 1 AWG
- FT1 - All Sizes
- Sunlight Resistant – Sizes 2 AWG and larger
- AWM - Sizes 14 through 6 AWG
- MTW - Stranded Constructions Only
- RoHS/REACH Compliant

CONSTRUCTION

Southwire® SIM*pull* THHN® copper conductors are made with soft drawn copper. Sizes 14 through 4/0 AWG use a combination-unilay stranding while 250 kcmil and larger sizes use a compressed copper stranding. The wire is covered with a tough heat and moisture resistant PVC insulation with an overall nylon jacket utilizing SIM*pull*® Technology. Available in black, white, red, blue, purple, green, yellow, orange, brown, and gray. Also available in striped configurations. Some colors are subject to economic order quantity. Marked as THHN in all sizes. Also marked as THWN-2 in sizes 8 AWG and larger or marked as THWN in sizes 14, 12, and 10 AWG. Marked sunlight resistant in sizes 2 AWG and larger. Sizes 14, 12, and 10 AWG are available with SIM*pull*® Technology only in SIM*pull* BARREL™ cable drum or SIM*pull*® *Coil*PAK™ configurations.

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Conductor		Insulation Thickness (mils)	Jacket Thickness (mils)	Nominal O.D. (mils)	Approx. Net Wt. Per 1000' (lbs.)	Allowable Ampacities+			Standard Package
Size (AWG or kcmil)	No. of strands					60°C	75°C	90°C	
14*	1	15	4	102	15	15	15	15	AC
12*	1	15	4	119	23	20	20	20	AC
10*	1	20	4	150	36	30	30	30	AC
14*	19	15	4	109	16	15	15	15	AC
12*	19	15	4	128	24	20	20	20	AC
10*	19	20	4	161	38	30	30	30	AC
8	19	30	5	213	63	40	50	55	ABCD
6	19	30	5	249	95	55	65	75	ABCD
4	19	40	6	318	152	70	85	100	ABCD
3	19	40	6	346	189	85	100	115	ABCD
2	19	40	6	378	234	95	115	130	ABCD
1	19	50	7	435	299	110	130	145	ABCD
1/0	19	50	7	474	372	125	150	170	ABCD
2/0	19	50	7	518	462	145	175	195	ABCD
3/0	19	50	7	568	575	165	200	225	ABCD
4/0	19	50	7	624	718	195	230	260	ABCD
250	37	60	8	694	851	215	255	290	ABCD
300	37	60	8	747	1012	240	285	320	ABC
350	37	60	8	797	1174	260	310	350	ABC
400	37	60	8	842	1334	280	335	380	ABC
500	37	60	8	926	1655	320	380	430	ABCD
600	61	70	9	1024	1987	350	420	475	ABC
750	61	70	9	1126	2464	400	475	535	BC
1000	61	70	9	1275	3257	455	545	615	C

* Sizes 14, 12, and 10 AWG are available with SIMpull® Technology only in SIMpull® Barrel or CoilPAK® configurations. Standard put ups vary from the ones shown on this chart for standard 14-10 AWG THHN.
+Allowable ampacities shown are for general use as specified by the 2014 Edition of the National Electrical Code Sections 310.15 and 240.4(D).
Unless the equipment is marked for use at higher temperatures the conductor shall be limited to the following per NEC 110.14(C):
60° C - When terminated to equipment for circuits rated 100 amperes or less or marked for 14 - 1 AWG conductors.
75° C - When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than 1 AWG.
90° C - THHN dry locations and THWN-2 wet or dry locations for ampacity adjustment purposes using NEC section 310.15.

Package Codes:
A - 2500' Reel
B - 1000' Reel
C - 500' Spool
D - 5000' Reel

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NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

OHM | Detroit | NO SCALE | FILE: | DATE: 05/24/21 | JN: PW-7031 RIVERSIDE PARK | LIGHTING DETAIL SHEET RIVERSIDE PARK | DRAWING: RIV L DET 011 | SHEET: 129

Conductor		
Size (AWG or kcmil)	No. of strands	Stock Numbers
14*	1	**SIM*pull* THHN® CU Stock #: BK:580285, WE:580294, WE/RD:580622, RD:580293, BE:580287, GN:580291, YW:580295, OE:580292, BN:580288, PE:580286, GY:580289**
		Standard THHN CU Stock #: BK:115790, WE:115808, RD:115816, BE:115824, GN:115832, YW:115840, OE:115857, BN:115865, PE:211243, GY:214668, TN:302539, PK:255331
12*	1	**SIM*pull* THHN® CU Stock #: BK:580265, WE:580275, WE/BK:580280, WE/BE:580281, WE/RD:580283 RD:580273, GN:580271, GN/YW:584566, BE:580267, PE:580264, YW:580276, OE:580272, BN:580268, GY:580269, GY/BN:580277 GY/OE:580278, GY/PE:580263, GY/YW:580279, PK:581931**
		Standard THHN CU Stock #: BK:115873, WE:115881, WE/BK:565284, WE/BE:611410, WE/RD:565285, Red:115899, GN:115915, GN/YW:401000, BE:115907, PE:212043, YW:115923 OE:115931, BN:115949, GY:228700, GY/BN:575303, GY/OE:575304 GY/YW:575305, PK:256479, TN:320127
10*	1	**SIM*pull* THHN® CU Stock #: BK:580203, WE:580215, WE/BK:580216, WE/BE:580218, WE/RD:580219, RD:580214, GN:580211, Gn/YW:580212, BE:580204, PE:580202, YW:580220, OE:580213, BN:580205, GY:580206, GY/BN:580226, GY/OE:580208, GY/PE:580201, GY/YW:580210**
		Standard THHN CU Stock #: BK:115956 WE:115964, WE/BK:551545, WE/BE:551547, WE/RD:551546, RD:115972, GN:115998, GN/YW:611757, BE:115980, YW:116004, OE:116012, BN:116020, GY:229823, GY/BN:575300, GY/OE:575301, GY/YW:575302, PK:258384, PE:253336
14*	19	**SIM*pull* THHN® CU Stock #: BK:585485, WE:580180, WE/BK:585484, WE/BE:581899, RD:585494, BE:585486, BE/WE:592686, GN:585490, YW:580181, OE:580177, BN:580172, BN/RD:592685, PE:580178, GY:580173, PK:581933**
		Standard THHN CU Stock #: BK:229559 WE:229567, RD:229575, RD/BK:662817, BE:229583, GN:229591, YW:229609, OE:229617, BN:229625, PE:239566, GY:229633, PK:244863, TN:320150
12*	19	**SIM*pull* THHN® CU Stock #: BK:580182, WE:580199, WE/BK:580192, WE/BE:580193, WE/RD:580194, RD:580198, BE:580184, GN:580195, GN/YW:583863, YW:580200, OE:580196, BN:585461, PE:580197, GY:580250, GY/BN:580207, GY/OE:580189, GY/PE:580188, GY/YW:580190, PK:581932**
		Standard THHN CU Stock #: BK:229641 WE:229658, WE/BK:311514, WE/BE:566441, WE/RD:566440, RD:229666, BE:229674, BE/WE:662981, GN:229682, GN/YW:663013, YW:229690, OE:229708, BN:229716, PE:232124, GY:229724, GY/BN:575307, GY/OE:575309, GY/YW:575310, TN:320168, PK:242503
10*	19	**SIM*pull* THHN® CU Stock #: BK:580221 WE:580255, WE/BK:580260, WE/BE:580261, WE/RD:580262, RD:580254, BE:580222, GN:585464, GN/YW:584567, YW:585470, OE:585465, BN:580223, PE:580253, GY:580250, GY/BN:580207, GY/OE:580257, GY/PE:580227, GY/YW:580259, PK:581930**
		Standard THHN CU Stock #: BK:229732, WE:229740, WE/BK:610028, WE/BE:556199, WE/RD:556198, RD:229757, RD/WE:663039, BE:229765, GN:229773, GN/YW:663112, PE:256594, YW:229781, OE:229799, BN:229807, GY:229815, GY/BN:575297, GY/OE:575298, GY/YW:575299, PK:260539, TN:320176

Color Abbreviations

BK-Black WE-White RD-Red BE-Blue GN-Green YW-Yellow
OE-Orange BN-Brown GY-Grey PK-Pink PE-Purple TN-Tan

The Power of Connections.™

Southwire®

COOPER Bussmann

TRON® In-Line Fuse Holders

HEB Series Single-Pole Breakaway & Non-Breakaway for 13/32″ x 1 1/2″ Fuses

Non-Breakaway Fuse Holders

See page 2 for breakaway holders

Catalog Symbol: HEB

Description:

Water resistant, single-pole non-breakaway in-line fuse holders for 13/32″ x 1 1/2″ midget fuses. Typical fuse types: BAF, DCM, FNM, FNQ and KTK.

Ratings:

Volts: 600V (or less)

Amps: Up to 30A*

Agency Information:

(1)UL Recognized, Guide IZLT2, File E14853

(2)CSA Certified, Class 6225-01, File 47235

(3)CE

Coupling Nut Torque: 10-20lb-in.

Part Number Explanation

Example: HEB-AK

- HEB = Holder series
- A = Loadside terminal (copper crimp for #12 copper wire)
- K = Lineside terminal (copper setscrew for two #6 copper wires)

Part Number Selection

From the table on page three, select the combination of desired loadside and lineside terminals for the application (define terminal type, wire size, number of wires per terminal and whether the terminal accepts solid and/or stranded conductors). Then in the right hand two columns, select either the non-breakaway or breakaway holder part number to order.

Available Part Numbers

HEB-AA(1) (2) (3), HEB-AB(2), HEB-AC(2), HEB-AD(2), HEB-AE(2), HEB-AJ, HEB-AK, HEB-AL, HEB-AR, HEB-AY, HEB-BA(2), HEB-BB(2), HEB-BC(2), HEB-BD(2), HEB-CC(2), HEB-DD(2), HEB-JJ, HEB-JK, HEB-JL, HEB-JY, HEB-LL, HEB-NN, HEB-PP(2), HEB-QQ(2), HEB-RR(2), HEB-SS, HEB-TT(2), HEB-ZA.

Specification Data - Non-Breakaway & Loadside Breakaway

Terminal Type	Conductor Data Size	No. Per Terminal	Solid	Stranded	Catalog Symbol Load & Line (2) & (3)
Conductor Terminals					
Copper Crimp	#12 to #8	1	•	•	A
	#12	2	•	•	
	#10	2	•	•	B
	#6	1	•	•	
	#8	2	•	•	C
	#4	1	—	•	
	#6	2	•	•	D
	#2	1	—	•	
	#4	2	•	•	E
	#20 to #18	1	•	•	Z
Copper Setscrew	#12 to #3	1	•	•	J
	#12 to #3	2	•	•	K
Solid Copper Terminal for Aluminum Wire Connector	#8 to #12	1	•	—	S
	#10 to #4	1	—	•	
Aluminum Crimp	#8	1	—	•	N
	#6	1	•	—	
	#6	1	—	•	P
	#4	1	•	—	
	#3, #4	1	—	•	Q
	#2	1	•	—	
	#1, #2	1	—	•	R
	#1/0	1	—	•	T
Aluminum Setscrew	#12 to #2	1	•	•	L
	#12 to #3	2	•	•	Y

Insulating Boots

For insulating boots, see page 2. Insulating boots are not included with non-breakaway holders and must be ordered separately. They come standard with the breakaway holders.

When insulating boots are utilized, extra heat retention requires that fuses are sized at a minimum of 200% of the RMS load current.

*Amp rating limited by conductor size.

Breakaway Fuse Holders

Catalog Symbol: HEB

Description:

Single-pole breakaway in-line fuse holders for 13/32″ x 1 1/2″ midget fuses. Typical fuse types: BAF, DCM, FNM, FNQ AND KTK.

Ratings:

Volts: 600V (or less)

Amps: Up to 30A*

Agency Information:

(1)UL Recognized, Guide IZLT2, File E14853

(2)CSA Certified, Class 6225-01, File 47235

(3)CE

Coupling Nut Torque: 10-20lb-in.

Part Number Explanation

Example: HEB-AW-RYC

- HEB = Holder series
- AW = Loadside terminal (copper crimp for #12 copper wire)
- RYC = Lineside terminal (copper setscrew for two #6 copper wires)

Part Number Selection

From the table cn page three, select the combination of desired loadside and lineside terminals for the application (define terminal type, wire size, number of wires per terminal and whether the terminal accepts solid and/or stranded conductors). Then in the right hand two columns, select either the non-breakaway or breakaway holder part number to order.

Available Part Numbers

Breakaway Units:

(Includes fuse holder, breakaway part and insulating boots):

HEB-AW-RLA, HEB-AW-RLC-A(1) (2) (3), HEB-AW-RLC-B, HEB-AW-RLC-C, HEB-AW-RLC-J, HEB-AW-RYA, HEB-AW-RYC, HEB-BW-RLC-A, HEB-BW-RLC-B, HEB-BW-RYC, HEB-JW-RLC-J, HEB-JW-RYC, HEB-KW-RLC-J, HEB-KW-RYC, HEB-LW-RLA, HEB-LW-RLC-J, HEB-LW-RYA

Fuse Holder Only: HEB-AW(2), HEB-BW(2), HEB-DW(2), HEB-JW, HEB-LW

Breakaway Part: RLC-A, RLC-B, RLC-C, RLC-J, RYC, RLA, RYA

Specification Data - Lineside Breakaway

Terminal Type	Conductor Data Size	No. Per Terminal	Solid	Stranded	Catalog Symbol
Breakaway Receptacles					
Copper Crimp	#12 to #8	1	•	•	-RLC-A
	#6	1	•	•	-RLC-B
	#4	1	•	•	-RLC-C
Copper Setscrew	#12 to #2	1	•	•	-RLC-J
	#12 to #3	2	•	•	-RYC
Aluminum Setscrew	#12 to #2	1	•	•	-RLA
	#12 to #3	2	•	•	-RYA
Solid Breakaway	(Required with Breakaway Receptacle)				W

Insulating Boots

Part Numbers	Type
2A0660	Single conductor
2A0661	Two conductor

Two insulating boots come standard with the breakaway holders (example: HEB-AW-RLC-A). The insulating boots are not included with the non-breakaway holders (example: HEB-AA) or the individual pieces of the breakaway holders (example: HEB-AW, RCL-A). Two insulating boots must be ordered for each holder when ordering them separately. When insulating boots are utilized, extra heat retention requires that fuses are sized at a minimum of 200% of the RMS load current.

*Amp rating limited by conductor size.

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NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION	OHM	Detroit	NO SCALE	DATE: 05/24/21
											FILE:

JN: PW-7031 RIVERSIDE PARK	LIGHTING DETAIL SHEET RIVERSIDE PARK	DRAWING RIV L DET 013	SHEET 131

For HEB Holders Only

Directions:To select complete holder P/N, work from left to right starting with loadside terminal options and then lineside terminal options. Then determine breakaway or non-breakaway style.

Loadside Terminal					Lineside Terminal					Available P/N's	
Terminal Type	Wire Size	No. of Wires per Terminal	Solid Wire	Stranded Wire	Terminal Type	Wire Size	No. of Wires per Terminal	Solid Wire	Stranded Wire	Non-Breakaway P/N (Boots not included)	Breakaway P/N (Boots included)
Copper Crimp	#12 to #8 #12	1 2	Y Y	Y Y	Copper Crimp	#12 to #8 #12	1 2	Y Y	Y Y	HEB-AA(1)(2)(3)	HEB-AW-RLC-A(1)(2)(3)
Copper Crimp	#12 to #8 #12	1 2	Y Y	Y Y	Copper Crimp	#6 #10	1 2	Y Y	Y Y	HEB-AB(2)	HEB-AW-RLC-B
Copper Crimp	#12 to #8 #12	1 2	Y Y	Y Y	Copper Crimp (4)	#4 #8	1 2	N Y	Y Y	HEB-AC(2)	HEB-AW-RLC-C(4)
Copper Crimp	#12 to #8 #12	1 2	Y Y	Y Y	Copper Crimp	#2 #6	1 2	N Y	Y Y	HEB-AD(2)	N/A
Copper Crimp	#12 to #8 #12	1 2	Y Y	Y Y	Copper Crimp	2/0 #3	1 2	N N	Y Y	HEB-AE(2)	N/A
Copper Crimp	#12 to #8 #12	1 2	Y Y	Y Y	Copper Setscrew	#12 to #3	1	Y	Y	HEB-AJ	HEB-AW-RLC-J
Copper Crimp	#12 to #8 #12	1 2	Y Y	Y Y	Copper Setscrew	#12 to #3	2	Y	Y	HEB-AK	HEB-AW-RYC
Copper Crimp	#12 to #8 #12	1 2	Y Y	Y Y	Aluminum Setscrew	#12 to #2	1	Y	Y	HEB-AL	HEB-AW-RLA
Copper Crimp	#12 to #8 #12	1 2	Y Y	Y Y	Aluminum Setscrew	#12 to #2	2	Y	Y	HEB-AY	HEB-AW-RYA
Copper Crimp	#12 to #8 #12	1 2	Y Y	Y Y	Aluminum Crimp	#1, #2	1	N	Y	HEB-AR	N/A
Copper Crimp	#6 #10	1 2	Y Y	Y Y	Copper Crimp	#12 to #8 #12	1 2	Y Y	Y Y	HEB-BA(2)	HEB-BW-RLC-A
Copper Crimp	#6 #10	1 2	Y Y	Y Y	Copper Crimp	#6 #10	1 2	Y Y	Y Y	HEB-BB(2)	HEB-BW-RLC-B
Copper Crimp	#6 #10	1 2	Y Y	Y Y	Copper Crimp	#4 #8	1 2	N Y	Y Y	HEB-BC(2)	N/A
Copper Crimp	#6 #10	1 2	Y Y	Y Y	Copper Crimp	#2 #6	1 2	N Y	Y Y	HEB-BD(2)	N/A
Copper Crimp	#4 #8	1 2	N Y	Y Y	Copper Crimp	#4 #8	1 2	N Y	Y Y	HEB-CC(2)	N/A
Copper Crimp	#2 #6	1 2	N Y	Y Y	Copper Crimp	#2 #6	1 2	N Y	Y Y	HEB-DD(2)	N/A
Copper Crimp	#20, #18	1	Y	Y	Copper Crimp	#12 to #8 #12	1 2	Y Y	Y Y	HEB-ZA	N/A
Copper Setscrew	#12 to #3	1	Y	Y	Copper Setscrew	#12 to #3	1	Y	Y	HEB-JJ	HEB-JW-RLC-J
Copper Setscrew	#12 to #3	1	Y	Y	Copper Setscrew	#12 to #3	2	Y	Y	HEB-JK	HEB-JW-RYC
Copper Setscrew	#12 to #3	1	Y	Y	Aluminum Setscrew	#12 to #2	1	Y	Y	HEB-JL	N/A
Copper Setscrew	#12 to #3	1	Y	Y	Aluminum Setscrew	#12 to #2	2	Y	Y	HEB-JY	N/A
Aluminum Setscrew	#12 to #2	1	Y	Y	Aluminum Setscrew	#12 to #2	1	Y	Y	HEB-LL	HEB-LW-RLA
Aluminum Crimp	#8 #6	1 1	N Y	Y N	Aluminum Crimp	#8 #6	1 1	N Y	Y N	HEB-NN	N/A
Aluminum Crimp	#6 #4	1 1	N Y	Y N	Aluminum Crimp	#6 #4	1 1	N Y	Y N	HEB-PP(2)	N/A
Aluminum Crimp	#3, #4 #2	1 1	N Y	Y N	Aluminum Crimp	#3, #4 #2	1 1	N Y	Y N	HEB-QQ(2)	N/A
Aluminum Crimp	#1, #2	1	N	Y	Aluminum Crimp	#1, #2	1	N	Y	HEB-RR(2)	N/A
Aluminum Crimp	1/0	1	N	Y	Aluminum Crimp	1/0	1	N	Y	HEB-TT(2)	N/A
SolidTerminal for aluminum connector	#8 to #12 #10 to #14	1 1	Y N	N Y	SolidTerminal for aluminum connector	#8 to #12 #10 to #14	1 1	Y N	N Y	HEB-SS	N/A

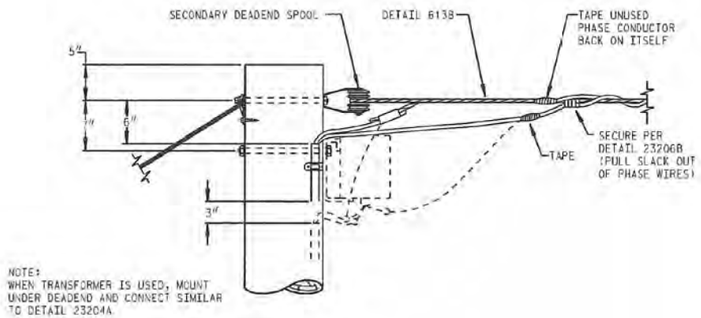
(1)UL Recognized, Guide IZLT2, File E14853
(2)CSA Certified, Class 6225-01, File 47235
(3)CE
(4)HEB-AW-RLC-C is for (1) #4 stranded wire only.

Contact your local Cooper Bussmann representative for other possible terminations not listed.

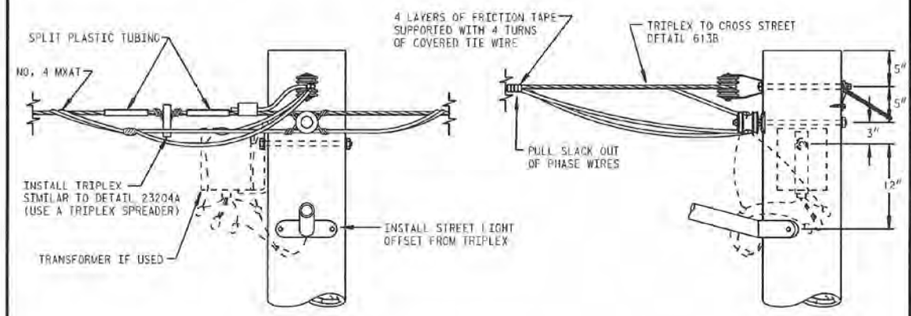
FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)											
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION	OHM	Detroit	NO SCALE	DATE: 05/24/21
											FILE:

JN: PW-7031 RIVERSIDE PARK	LIGHTING DETAIL SHEET RIVERSIDE PARK	DRAWING: RIV L DET 014	SHEET: 132

23-STREET LIGHTING



DEADEND POLE
DETAIL 23206A

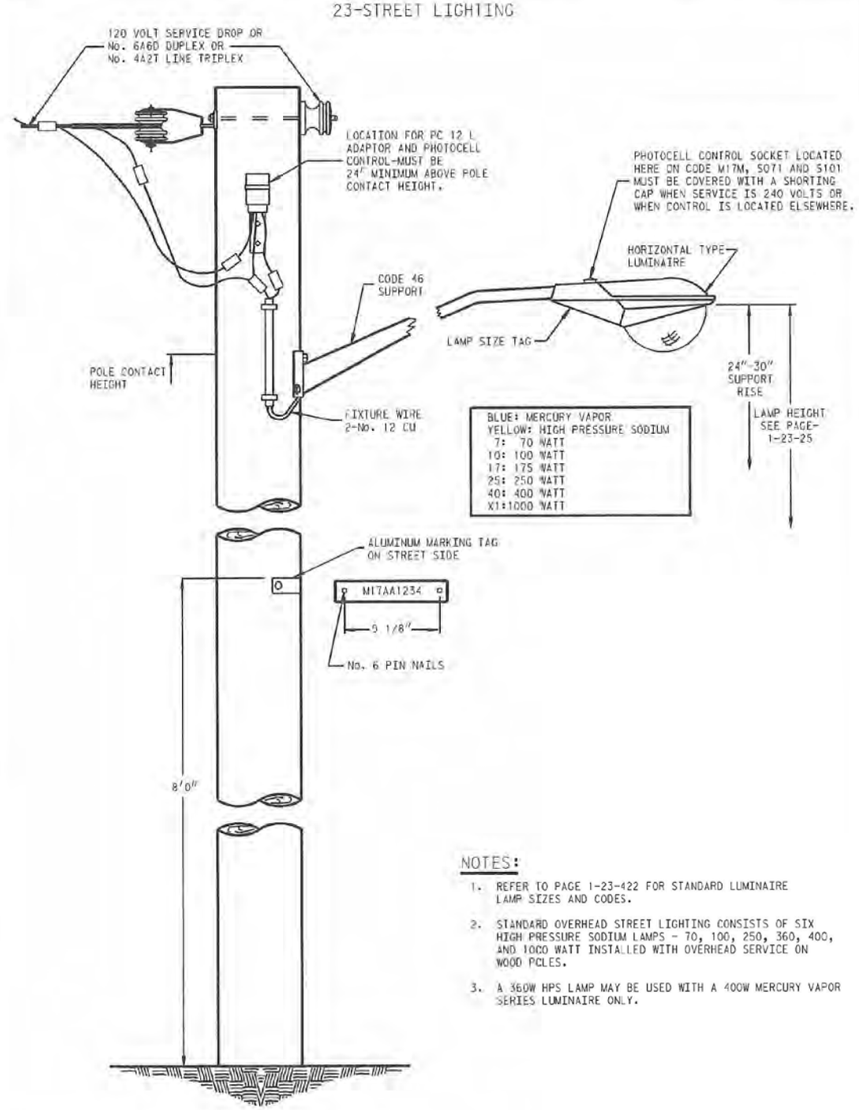


TRIPLEX TEE FEED
DETAIL 23206B

N:\DGN-UGH\23206.DGN
JUN-06-2000 DKR/RUSSELL REVIEWED 10/2002

120 OR 240 VOLT CIRCUIT
NO. 4A2T LINE TRIPLEX

23-STREET LIGHTING



NOTES:

1. REFER TO PAGE 1-23-422 FOR STANDARD LUMINAIRE LAMP SIZES AND CODES.
2. STANDARD OVERHEAD STREET LIGHTING CONSISTS OF SIX HIGH PRESSURE SODIUM LAMPS - 70, 100, 250, 360, 400, AND 1000 WATT INSTALLED WITH OVERHEAD SERVICE ON WOOD POLES.
3. A 360W HPS LAMP MAY BE USED WITH A 400W MERCURY VAPOR SERIES LUMINAIRE ONLY.

REFER TO FG. 1-23-236 FOR POLE SETTING AND MARKING

DETROIT

c:\DGN\123201.DGN [120.17]
FEB-06-1998 TRAHERNO REVISED 10/2002

STANDARD OVERHEAD
STREET LIGHT INSTALLATION

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

OHM

Detroit

NO SCALE

FILE:

DATE: 05/24/21

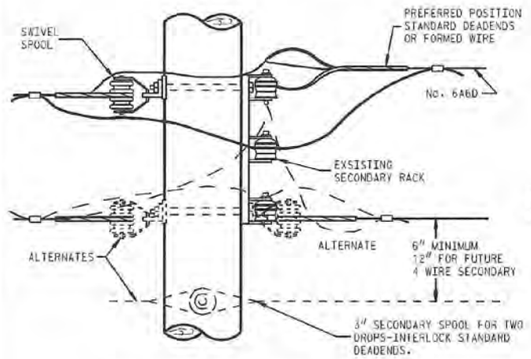
JN: PW-7031
RIVERSIDE PARK

LIGHTING DETAIL SHEET
RIVERSIDE PARK

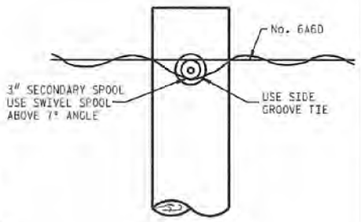
DRAWING: RIV L DET 015

SHEET: 133

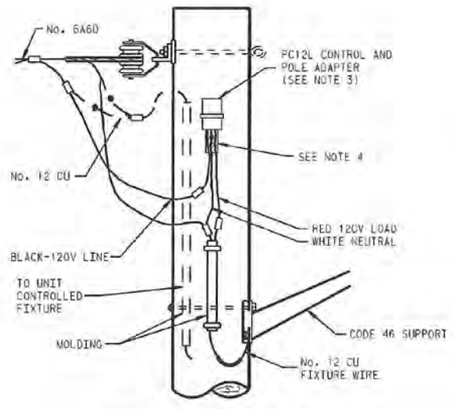
23-STREET LIGHTING



120 VOLT DUPLEX DROP
FROM LINE POLE
DETAIL 23202A



120 VOLT DUPLEX DROP
TANGENT POLE
DETAIL 23202C



120 VOLT DUPLEX DROP
ON FIXTURE POLE
DETAIL 23202B

NOTES:

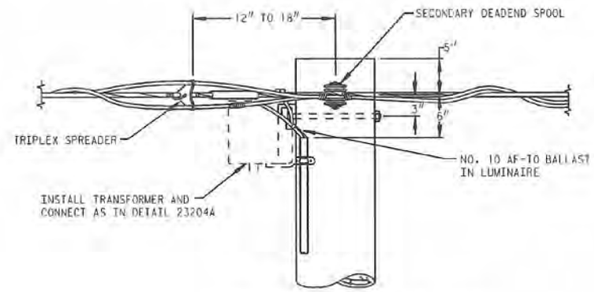
DROP MAY BE:

1. 120 VOLT SERVICE TO A STREET LIGHT CONTROL.
2. 120 VOLT STREET CIRCUIT FROM A STREET LIGHT CONTROL
3. SEE CONTROL DETAILS FOR MOUNTING & CONNECTION
4. FUSED FEED TO ORNAMENTAL LIGHTS-SEE PAGE 1-23-227

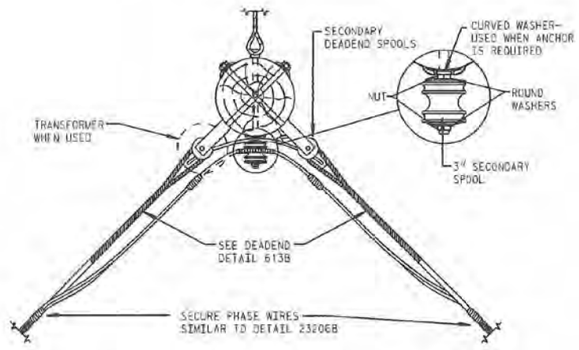
STREET LIGHT DROP
120 VOLT SERVICE OR CIRCUIT

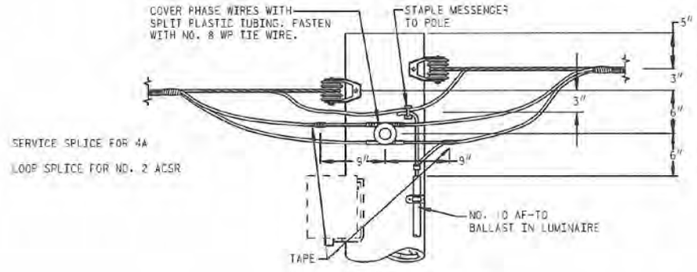
C:\DGN\123202.DGN[120,17]
FEB-05-1999 TRI\HERSHG REVIEWED 10/2002

23-STREET LIGHTING



ANGLE POLE (5° TO 15°)
DETAIL 23205A





ANGLE POLE OVER 15°
DETAIL 23205B

120 OR 240 VOLT
CIRCUIT NO. 4A2T LINE TRIPLEX

..DGN-UG\123205.DGN
4AY-30-2000 DKR\RUSSELL REVIEWED 10/2002

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

OHM | Detroit | NO SCALE | DATE: 05/24/21 | JN: PW-7031 RIVERSIDE PARK | FILE: | LIGHTING DETAIL SHEET | RIVERSIDE PARK | DRAWING: RIV L DET 016 | SHEET: 134

IDENTIFICATION TAG TEXT LEGEND

LIGHTING CONTROLLER (LC) ID TAG NAMING CONVENTION LEGEND

THE FORMAT FOR LIGHTING CONTROLLER ID TAGS SHALL FOLLOW THE FOLLOWING PATTERN:

LCVVWXX

THE SECTIONS SEPARATED FOR CLARITY ARE LC-VV-W-XX. THE LC STAND FOR LIGHTING CONTROLLER. THE V, W AND X ARE AS FOLLOWS:

VV LAST TWO DIGITS OF THE ZIP CODE WHERE THE LIGHTING CONTROLLER IS LOCATED

W ID ASSIGNED TO THE FIRM DESIGNING THE CIRCUIT. EXAMPLES INCLUDE:

M	METRO ENGINEERING SOLUTIONS
T	TETRA TECH
W	C.E.A. AND WADE TRIM JOINT VENTURE

XX ID ASSIGNED TO THE LIGHTING CONTROLLER (LC)

THE TAG SHALL HAVE THE LETTERS MOUNTED HORIZONTALLY WITH THE HOLDER MOUNTED VERTICALLY.

AN EXAMPLE LIGHTING CONTROLLER ID TAG IS:

LC16W30 AN LC INSTALLED IN THE 48230 ZIP THAT WAS LAID OUT BY THE C.E.A AND WADE TRIM JOINT VENTURE AND HAS BEEN ASSIGNED AN ID OF 30 IN THAT ZIP CODE.

CABLE ID TAG NAMING CONVENTION LEGEND

THE FORMAT FOR CABLE TAGS SHALL FOLLOW THE FOLLOWING PATTERN:

UUUVVWXXYZ

THE SECTIONS SEPARATED FOR CLARITY ARE UUU-VV-W-XX-Y-Z. THE VV-W-XX COMES FROM THE ASSIGNED LIGHTING CONTROLLER ID. THE VARIOUS VALUES STAND FOR:

UUU	PLA	FOR STREET LIGHTING CIRCUITS
	REC	FOR RECEPTACLE CIRCUITS
VVWXX	THE ASSIGNED LC ID. SEE THE LC NAMING CONVENTION	
Y	THE CIRCUIT BRANCH ID (1, 2, 3, 4, ETC.)	
Z	THE CONDUCTOR CLASSIFICATION	

CLASSIFICATIONS ARE:

A	A PHASE CONDUCTOR
B	B PHASE CONDUCTOR
N	NEUTRAL CONDUCTOR
G	EQUIPMENT GROUND CONDUCTOR (EGC)

THE TAG SHALL HAVE THE LETTERS MOUNTED AND THE HOLDER MOUNTED HORIZONTALLY.

NOTE: CABLE TAG LABELS ARE GENERATED FOR THE CABLE(S) BEING TAGGED DEPENDING ON WHAT IS INCLUDED UNDER THE TAG. FOR INSTANCE, AN ENTIRE BRANCH CIRCUIT 4 CABLE BUNDLE INCLUDING 2 POWER LEGS, 1 NEUTRAL AND 1 EGC COULD BE TAGGED WITH A SINGLE UUU-VV-W-XXY TAG AS LONG AS THE CABLES ARE ALL PHYSICALLY TIED TOGETHER. WHEN AN ENTIRE BRANCH CIRCUIT IS BUNDLED AND TAGGED TOGETHER WITH A CIRCUIT IDENTIFIER OF UUU-VV-W-XX-Y THEN THE INDIVIDUAL CABLES IN THAT BUNDLE CAN BE TAGGED WITH JUST AN “A”, “B”, “N”OR “G”.

NOTE:AN EQUIPMENT GROUND CONDUCTOR (EGC) CAN BE SHARED BETWEEN BRANCH CIRCUITS OR EVEN LIGHTING CONTROLLER CIRCUITS IF ALL THE CABLES SHARE THE SAME CONDUIT WHICH CREATES A UNIQUE TAGGING CONVENTION. THE EGC, IF TAGGED SEPARATELY, IS TAGGED TO INDICATE WHAT LEVEL OF SHARING IS USING THE EGC. THE LEVELS OF EGC TAGGING ARE:

UUUVVWXXYG	AN EGC FOR A BRANCH CIRCUIT OR INDIVIDUAL PHASE BUNDLE
UUUVVWXXG	AN EGC SHARED BETWEEN MULTIPLE BRANCH CIRCUITS
EGC	AN EGC SHARED BETWEEN DIFFERENT TYPES OF CIRCUITS OR LCS

NOTE:THERE EXISTS DECORATIVE LIGHTING WITHIN THE DETROIT LIGHTING AREA UTILIZING STRAND LIGHTING. THOSE CIRCUITS ARE BUNDLED TOGETHER AND GET A UNIQUE TAG OF “STRAND”.

EXAMPLE CABLES TAGS ARE:

PLA26W5A1A	PLA STREET LIGHTING BRANCH CIRCUIT BUNDLE
PLA26W5A1AA	PLA STREET LIGHTING BRANCH CIRCUIT LAMP LOOP
REC26W5A1A	RECEPTACLE BRANCH CIRCUIT BUNDLE
STRAND	STRAND LIGHTING FEED CABLE BUNDLE

IDENTIFICATION TAG TEXT LEGEND - CONTINUED

LUMINAIRE ID TAG NAMING CONVENTION LEGEND

THE FORMAT FOR LUMINAIRE ID TAGS SHALL FOLLOW THE FOLLOWING PATTERN:

WXXXYYYZZZ

THE SECTIONS SEPARATED FOR CLARITY ARE W-XXX-YYY-ZZZ. THE W, X, Y AND Z ARE AS FOLLOWS:

W THE LUMINAIRE TYPE. SOME LUMINAIRE TYPES ARE:

- L LIGHT EMITTING DIODE (LED) FIXTURE
- S SODIUM VAPOR FIXTURE

XXX THE LUMINAIRE WATTAGE. SOME EXAMPLES ARE:

- 118 118W LUMINAIRE
- 152 152W LUMINAIRE

THESE WATTAGES ARE REGARDLESS OF THE LUMINAIRE TYPE.

YYY THE ALPHA PORTION OF THE PLA ASSIGNED LUMINAIRE ID.

ZZZ THE NUMERIC PORTION OF THE PLA ASSIGNED LUMINAIRE ID.

THE TAG SHALL HAVE THE LETTERS MOUNTED HORIZONTALLY WITH THE HOLDER MOUNTED VERTICALLY.

AN EXAMPLE LUMINAIRE ID TAG IS:

L118AFK941 A 118W LED LUMINAIRE WITH THE PLA ID OF AFK941.

MATERIALS

CABLE CIRCUIT IDENTIFICATION TAGS

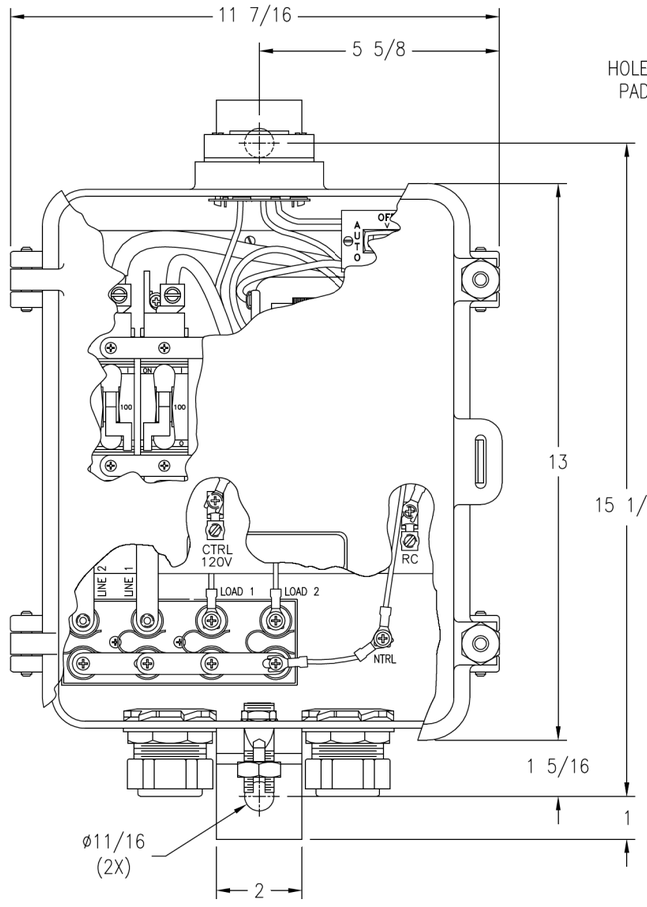
THE IDENTIFICATION TAGS FOR CABLE CIRCUITS SHALL USE TECH PRODUCTS, INC. FASTTAGS MINIATURE MARKERS. THE TAGS SHALL HAVE BLACK RAISED LETTERING ON A YELLOW BACKGROUND. THE LETTERING SHALL BE ORIENTATED HORIZONTALLY AND IN A SINGLE LINE.

LIGHTING CONTROLLER IDENTIFICATION TAGS

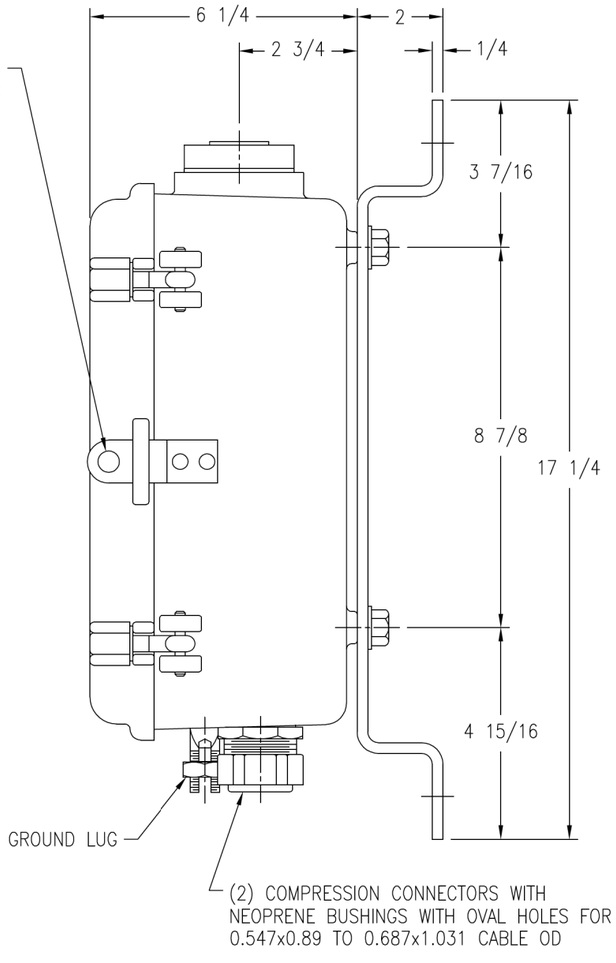
THE IDENTIFICATION TAGS FOR LIGHTING CONTROLLERS SHALL USE TECH PRODUCTS, INC. EVERLAST 1” VERTICALLY MOUNTED NUMBERS AND LETTERS WITH SOLID BLACK POLYPROPYLENE CHARACTERS EMBEDDED IN A BRIGHT YELLOW POLYPROPYLENE BACKGROUND. THE LETTERS SHALL BE STACKED VERTICALLY WITH THE HOLDER MOUNTED VERTICALLY ON THE POLE. EACH CHARACTER SHALL BE 0.70”TALL WHEN MOUNTED. THE TAG SHALL BE MOUNTED ON THE POLE’S STREETSIDE.

LUMINAIRE IDENTIFICATION TAGS

THE IDENTIFICATION TAGS FOR LUMINAIRES SHALL USE TECH PRODUCTS, INC. EVERLAST 1”VERTICALLY MOUNTED NUMBERS AND LETTERS WITH SOLID BLACK POLYPROPYLENE CHARACTERS EMBEDDED IN A BRIGHT YELLOW POLYPROPYLENE BACKGROUND. THE LETTERS SHALL BE STACKED VERTICALLY WITH THE HOLDER MOUNTED VERTICALLY ON THE POLE. EACH CHARACTER SHALL BE 0.70”TALL WHEN MOUNTED. A TAG IS MOUNTED ON THE POLE FOR EACH INDIVIDUAL LUMINAIRE ON THE POLE. THE TAG(S) SHALL BE MOUNTED ON THE POLE’S STREETSIDE.



CONTROL TERMINALS WILL ACCEPT #6 THRU #14 AWG WIRE
LINE/LOAD TERMINALS WILL ACCEPT #4 THRU #1/0 AWG WIRE

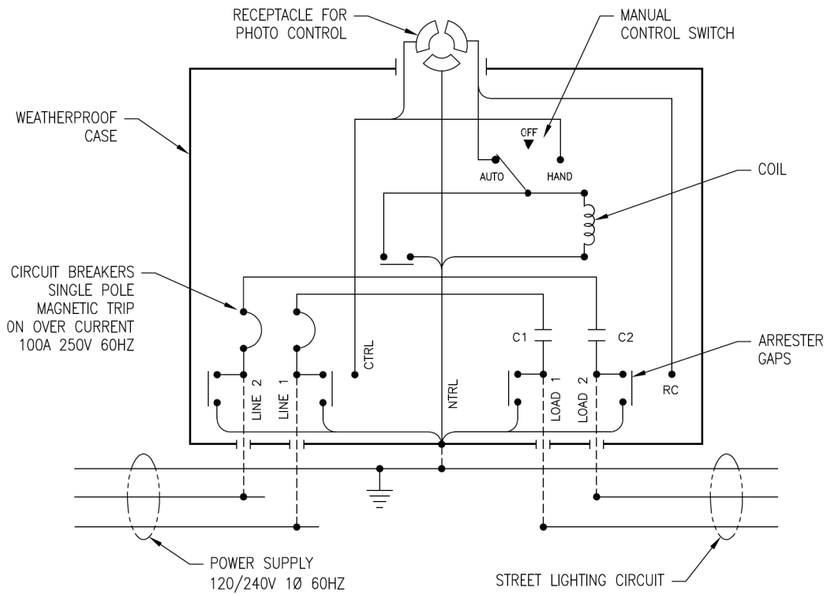


CAST ALUMINUM WEATHERPROOF CASE WITH BRACKET

TRINETICS Menomonee Falls, Wisconsin U.S.A.
TYPE MR-YO LINE POLE 2
SPEC. NO. 6442 SERIAL NO. XXXX
FOR INSTRUCTIONS REFER IS-11939
CONTROL CIRCUIT RATING
120 VOLTS 60 HZ
A-C LOAD CIRCUIT 100 AMPS 120/240 VOLTS

NAMEPLATE DETAIL

CONNECTIONS FOR TYPE MR-YO SPEC 6442 STREET LIGHT CONTROL ASS'Y WITH SINGLE POLE MAGNETIC TRIP ON OVERLOAD CIRCUIT BREAKERS.



TWO POLE STREET LIGHT CONTROL ASS'Y WIRED FOR OPERATION WITH 120V PHOTO CONTROL UNIT AND RATED FOR SWITCHING A STREET LIGHTING LOAD WITH NORMAL CURRENT WHICH DOES NOT EXCEED THE LOAD CURRENT RATING SHOWN ON THE NAMEPLATE. IF SUPPLY IS 240/480V, A SEPARATE 120V SOURCE MUST BE CONNECTED TO "CTRL" TERMINAL FOR PC OPERATION.

THE LOCATION OF THE PHOTO CONTROL UNIT MAY BE EITHER AT THE CONTROL ASS'Y AND PLUGGED INTO THE RECEPTACLE PROVIDED FOR SAME, OR AT A REMOTE POINT SUCH AS AN AUXILIARY PHOTO CONTROL MOUNTING ADAPTER OR ANOTHER STREET LIGHT CONTROL ASS'Y.

WHEN PHOTO CONTROL IS TO BE REMOTE, CLOSE THE SELF CONTAINED RECEPTACLE FOR PHOTO CONTROL WITH AN OPEN CIRCUITED CAP. ESTABLISH THE OPERATING CIRCUIT BY WIRING FROM THE "RC" TERMINAL TO THE LOAD LEAD OF THE REMOTELY LOCATED AUXILIARY PHOTO CONTROL MOUNTING ADAPTER, OR TO THE "RC" TERMINAL OF ANOTHER STREET LIGHT CONTROL ASS'Y. INTERCONNECTION OF "RC" TERMINALS OF TWO OR MORE STREET LIGHT CONTROL ASSEMBLIES PROVIDES GANG OPERATION WITH A SINGLE PC UNIT.

MANUAL CONTROL SWITCH IS SHOWN IN "AUTO" POSITION AND PHOTO CONTROL ESTABLISHES ON-OFF STREET LIGHT OPERATING SCHEDULE. MANUAL CONTROL SWITCH IN HAND OR OFF POSITIONS BY-PASSES PHOTO CONTROL TO PROVIDE, RESPECTIVELY, STREET LIGHT CIRCUIT ON OR OFF OPERATION. REMOTE PC LOCATION OR GANG OPERATION CONNECTIONS ARE NOT AFFECTED BY OPERATION OF INDIVIDUAL MANUAL CONTROL SWITCHES. HOWEVER, 120V MUST BE AVAILABLE AT EACH STREET LIGHT CONTROL ASSEMBLY TO PERMIT HAND-ON CIRCUIT OPERATION WITH RESPECTIVE MANUAL CONTROL SWITCH.

THE RELAY MUST BE ENERGIZED CONTINUOUSLY AT 120V DURING THE TIME OF RELAY CONTACT CLOSURE.

TRINETICS

RELAY ASSEMBLY MR-YO SPEC 6442

THIRD ANGLE PROJECTION	SIZE	DRAWN BY	DATE	PART NUMBER
	B	G Pietschmann	7/14/11	31183000

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED	FAMILY ID	APPROX. WEIGHT	SCALE
	C1643	24 LB	5/16

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NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

OHM Detroit

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DATE: 05/24/21

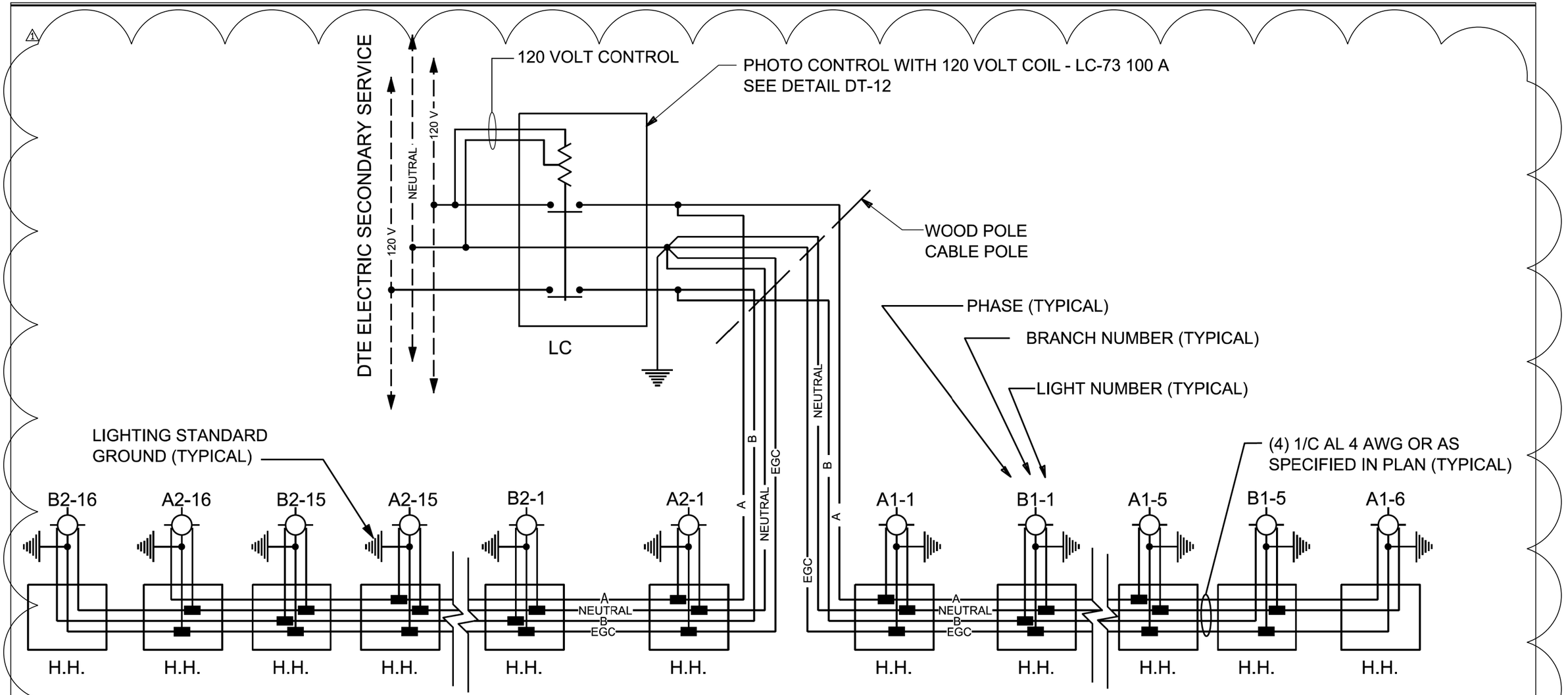
FILE:

JN: PW-7031
RIVERSIDE PARK

LIGHTING DETAIL SHEET
RIVERSIDE PARK

DRAWING: RIV L DET 019

SHEET: 137



UNDERGROUND STREET LIGHTING CIRCUIT TYPICAL WIRING SCHEMATIC
THREE CONDUCTOR AND EQUIPMENT GROUND CONDUCTOR (EGC)

NOT TO SCALE

UNDERGROUND FED LIGHTING STANDARD

HANDHOLE

HOMAC RAB 1/0-xx MECHANICAL CONNECTOR INSTALLED IN HANDHOLE
xx = IS THE OUTLET CONFIGURATION RAB 1/0-21 IS SHOWN
SIZE AS NECESSARY FOR MULTIPLE LUMINAIRES OR CIRCUIT BRANCHES

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION
1	06/04/21		ADDED NEUTRAL WIRE FOR 120V				

OHM

Detroit

NO SCALE

FILE:

DATE: 05/24/21

JN: PW-7031
RIVERSIDE PARK

LIGHTING DETAIL SHEET
RIVERSIDE PARK

DRAWING: RIV L DET 020

SHEET: 138

CABLES IN HANDHOLES AND MANHOLES:

STREET LIGHTING AND RECEPTACLE CABLES IN HANDHOLES AND MANHOLES SHALL BE PULLED STRAIGHT THROUGH THE STRUCTURE UNLESS THERE IS A TAP REQUIRED TO SERVICE A STREET LIGHT, RECEPTACLE OR CIRCUIT BRANCH LOCATION.

LOCATIONS REQUIRING A SERVICE TAP WILL HAVE THE SERVICE PHASE TAPPED WITH THE APPROPRIATE HOMAC RAB CONNECTOR AND THE NON-SERVICE PHASE PULLED STRAIGHT THROUGH.

LOCATIONS REQUIRING CIRCUIT TAPS FOR CIRCUIT BRANCHES WILL BE INDENTIFIED ON THE PLANS WITH THE REQUIRED TAP SIZE AND PHASE PROVIDED.

EXAMPLE 1 - LAMP LOOP:

AN EXAMPLE IS A HANDHOLE LOCATION WITH BOTH THE A PHASE AND THE B PHASE COMING IN AND CONTINUING ALONG TO FEED ADDITIONAL STREET LIGHT LOCATIONS. THE HANDHOLE ALSO FEEDS A STREET LIGHTING STANDARD THAT HAS 2 LUMINAIRES THAT ARE TO BE CONNECTED TO THE B PHASE CABLE AND NO RECEPTACLE. THE B PHASE CABLE WILL HAVE A 4-WAY HOMAC RAB CONNECTOR INSTALLED. THE NEUTRAL WILL HAVE A 4-WAY HOMAC RAB CONNECTOR INSTALLED. THE EGC WILL HAVE A 3-WAY HOMAC RAB CONNECTOR INSTALLED. THE A PHASE CABLE WILL BE PULLED STRAIGHT THROUGH.

EXAMPLE 2 - CIRCUIT BRANCH:

AN EXAMPLE IS A HANDHOLE LOCATION WITH BOTH THE A PHASE AND THE B PHASE COMING IN AND FEEDING TWO DIFFERENT DIRECTIONS GOING OUT WITHOUT A STREET LIGHT LOCATION DIRECTLY CONNECTED TO THE HANDHOLE. THIS EXAMPLE REQUIRES CABLE 3-WAYS (ALSO CALLED A T-TAP OR BRANCH) TO BE INSTALLED TO FEED THE TWO DIFFERENT DIRECTIONS. A 3-WAY HOMAC RAB WILL BE INSTALLED ONTO EACH OF THE A PHASE, B PHASE, NEUTRAL AND EGC CABLES.

UNDERGROUND PHASE IDENTIFICATION

CURRENT UNDERGROUND CONSTRUCTION WIRING STANDARD				
CONDUCTOR ID	**BLACK**	**WHITE/WHITE STRIPE**	**RED/RED STRIPE**	**GREEN/BARE**
PHASE	A PHASE	NEUTRAL	B PHASE	EGC

OBSOLETE UNDERGROUND CONSTRUCTION WIRING STANDARD				
CONDUCTOR ID	**BLACK**	**WHITE/WHITE STRIPE**	**RED/RED STRIPE**	**GREEN/BARE**
PHASE	A PHASE	NEUTRAL	B PHASE	----

*** WHEN MODIFICATIONS OR ADDITIONS ARE REQUIRED ON OBSOLETE STYLE CONSTRUCTION CIRCUITS, THE CHANGES SHOULD BE MADE WITH THE OBSOLETE STYLE OR THE ENTIRE CIRCUIT MUST BE UPDATED.

*** THE CURRENT UNDERGROUND CONSTRUCTION AND THE OBSOLETE UNDEGROUND CONSTRUCTION STANDARDS SHALL NOT BE INTERMINGLED EXCEPT AT THE CIRCUIT SOURCE POINT WHERE THE NEUTRAL IS BONDED TO THE GROUND AT THE MAIN BREAKER.

*** THERE ARE INSTALLATIONS WHERE NEITHER COLOR-CODED, EITHER COLORED INSULATION OR PHASE MARKED, CONDUCTORS ARE USED SO THAT ALL THE CONDUCTORS ARE THE SAME COLOR, TYPICALLY BLACK. PHASING MUST BE FIELD VERIFIED PRIOR TO CONNECTING ANY COLOR-CODED CONDUCTORS TO NON-CODED CONDUCTORS.

*** PRIOR TO CONNECTING ANY NEW CIRCUIT CABLING TO EXISTING CIRCUIT CABLING, CARE IS TO BE TAKEN BY VERIFYING THE EXISTING CIRCUIT CABLING PHASING TO ENSURE THAT PROPER ELECTRICAL CONNECTIONS ARE MADE. IF THE EXISTING CIRCUIT CABLING IS FOUND TO HAVE IMPROPER PHASE IDENTIFICATIONS THEN THE EXISTING CIRCUIT CABLING MUST BE CORRECTED PRIOR TO CONNECTING ANY NEW CABLING.

*** THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CIRCUIT PHASE IDENTIFICATIONS PRIOR TO CONNECTING ANY NEW CIRCUIT CABLING TO EXISTING CIRCUIT CABLING. IF THE EXISTING CIRCUIT CABLING IS FOUND TO HAVE IMPROPER PHASE IDENTIFICATIONS THEN THE EXISTING CIRCUIT CABLING MUST BE CORRECTED PRIOR TO CONNECTING ANY NEW CABLING.

OVERHEAD PHASE IDENTIFICATION

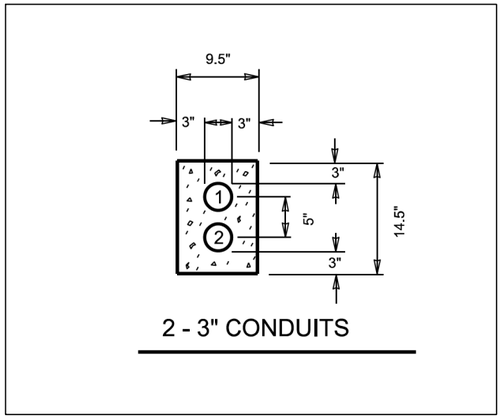
CURRENT OVERHEAD CONSTRUCTION WIRING STANDARD				
CABLE TYPE	**NO RIB**	**1 RIB**	**2 RIBS**	**MESSENGER**
QUADRUPLEX	A PHASE	NEUTRAL	B PHASE	EGC
TRIPLEX	A PHASE	NEUTRAL	----	EGC
DUPLEX	----	----	----	----

OBSOLETE OVERHEAD CONSTRUCTION WIRING STANDARD				
CABLE TYPE	**NO RIB**	**1 RIB**	**2 RIBS**	**MESSENGER**
QUADRUPLEX	----	----	----	----
TRIPLEX	A PHASE	B PHASE	----	NEUTRAL
DUPLEX	A PHASE	----	----	NEUTRAL

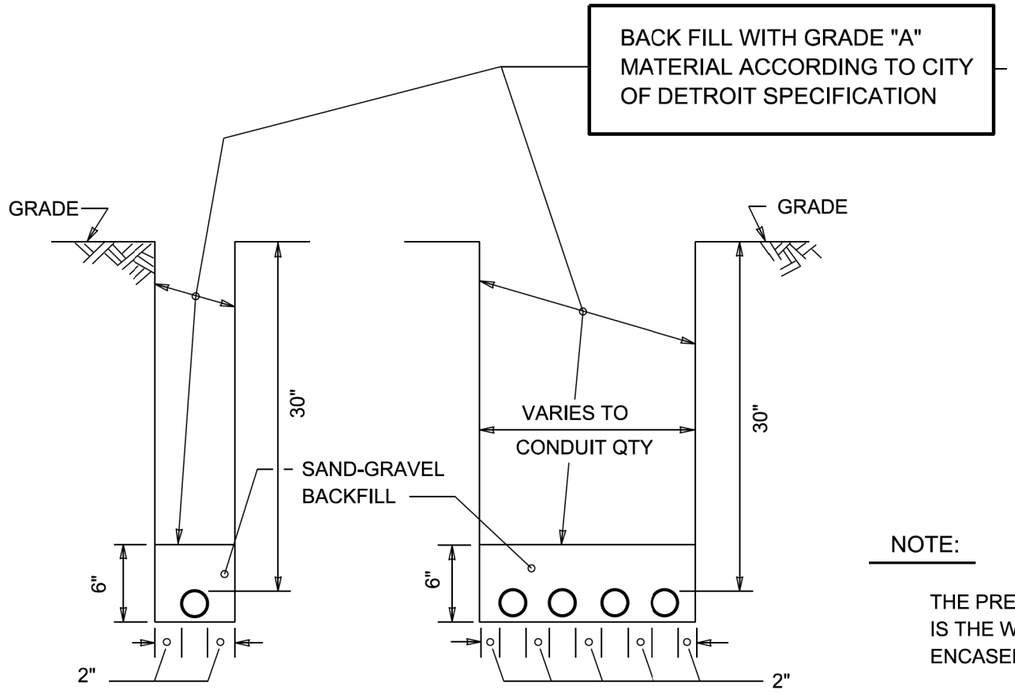
*** WHEN MODIFICATIONS OR ADDITIONS ARE REQUIRED ON OBSOLETE STYLE CONSTRUCTION CIRCUITS, THE CHANGES SHOULD BE MADE WITH THE OBSOLETE STYLE OR THE ENTIRE CIRCUIT MUST BE UPDATED.

*** THE CURRENT OVERHEAD CONSTRUCTION AND THE OBSOLETE OVERHEAD CONSTRUCTION STANDARDS SHALL NOT BE INTERMINGLED EXCEPT AT THE CIRCUIT SOURCE POINT WHERE THE NEUTRAL IS BONDED TO THE GROUND AT THE MAIN BREAKER.

*** THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CIRCUIT PHASE IDENTIFICATIONS PRIOR TO CONNECTING ANY NEW CIRCUIT CABLING TO EXISTING CIRCUIT CABLING. IF THE EXISTING CIRCUIT CABLING IS FOUND TO HAVE IMPROPER PHASE IDENTIFICATIONS THEN THE EXISTING CIRCUIT CABLING MUST BE CORRECTED PRIOR TO CONNECTING ANY NEW CABLING.



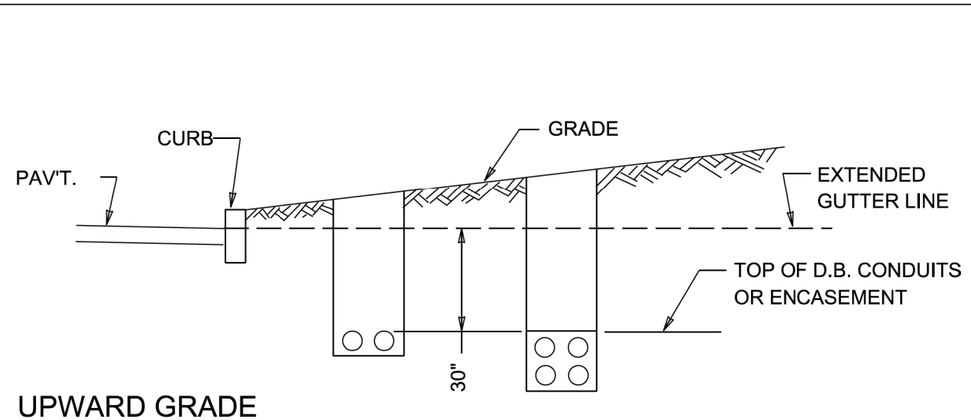
2 - 3" CONDUITS



NOTE:

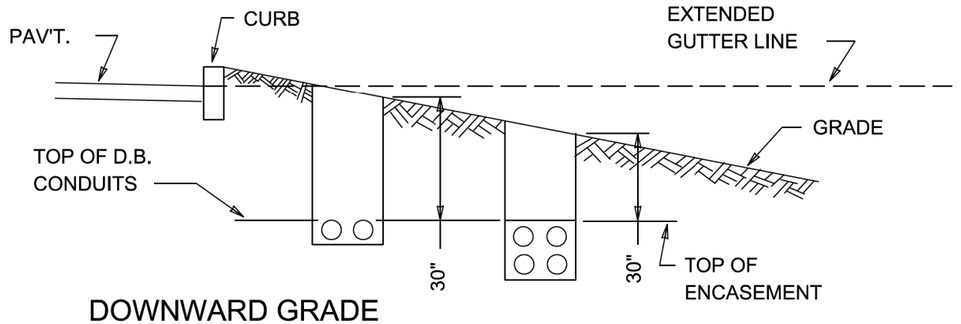
THE PREFERRED TRENCH WIDTH "W" IS THE WIDTH OF "D" OF CONDUIT ENCASEMENT.

DIRECT BURIAL CONDUIT(S)



UPWARD GRADE

N.T.S.

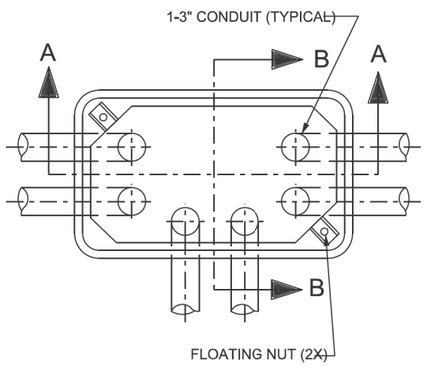


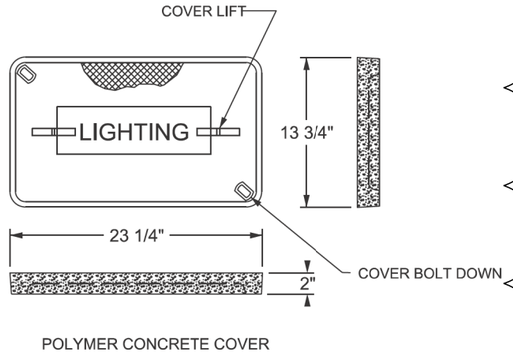
DOWNWARD GRADE

N.T.S.

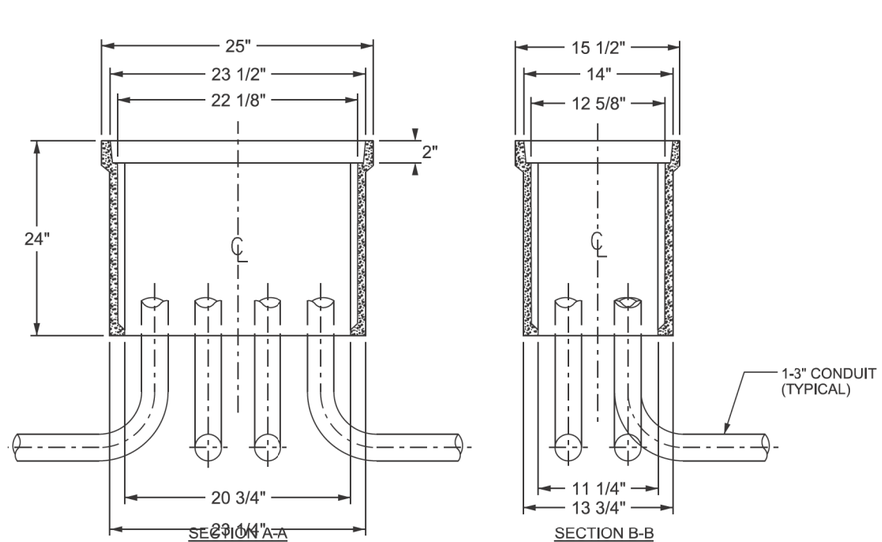
FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								OHM	Detroit	NO SCALE		DATE: 05/24/21		LIGHTING DETAIL SHEET	DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION				FILE:		JN: PW-7031 RIVERSIDE PARK	RIVERSIDE PARK	RIV L DET 023	141

POLYMER CONCRETE HANDHOLE ASSEMBLY
13" X 24" X 24" DEEP





POLYMER CONCRETE COVER



SECTION A-A

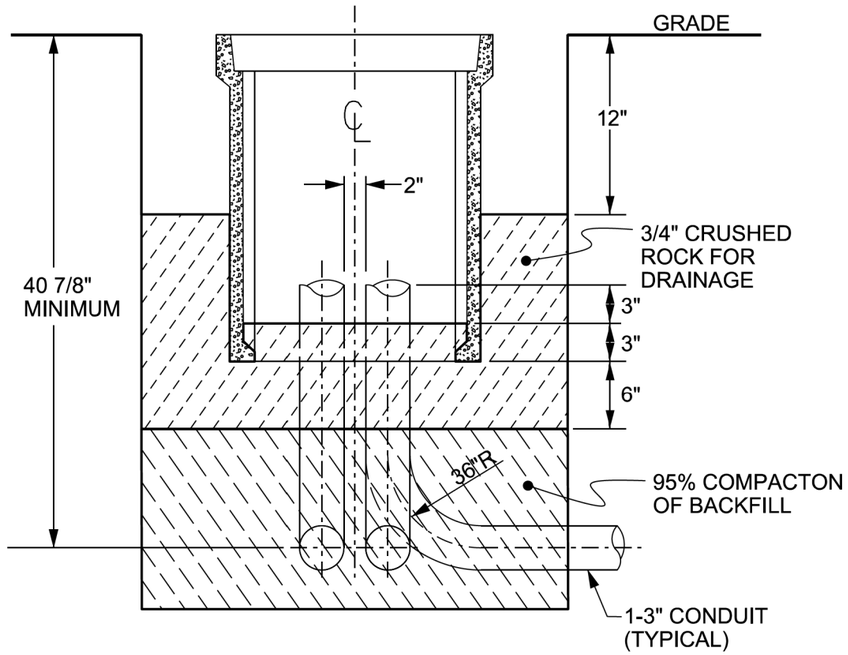
SECTION B-B

ASSEMBLY TO HAVE AN OPEN BOTTOM
LOAD RATING: ANSI TIER 15/22 - 20K POUNDS

NOT TO SCALE

1

POLYMER CONCRETE STRUCTURE INSTALLATION



NOT TO SCALE

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION
1	06/04/21		CHANGE HANDHOLE SIZE				

OHM

Detroit

NO SCALE

DATE: 05/24/21

FILE:

JN: PW-7031
RIVERSIDE PARK

LIGHTING DETAIL SHEET
RIVERSIDE PARK

DRAWING: RIV L DET 024

SHEET: 142

1

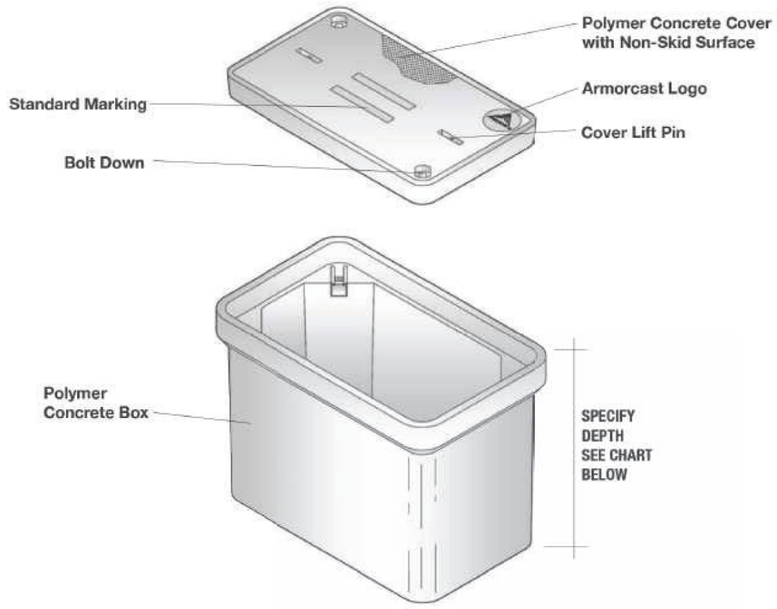
13” x 24” BOX ASSEMBLY

12” to 24” DEPTHS

POLYMER CONCRETE — ARMORCAST PRODUCTS COMPANY

A6001946

POLYMER CONCRETE BOXES



13”W x 24”L BOX ASSEMBLIES Specify Depth Below

DESCRIPTION	NOMINAL SIZE W x L x D	LOAD RATING	ANSI TIER	PART NUMBER	APPROX. WEIGHT	PALLET QTY.
Box & Cover Assembly	13” x 24” x 12”	10K	8	A6001946APCX12	83 lbs.	15
	13” x 24” x 12”	20K	15 / 22	A6001946TAPCX12 / A6001946HDAPCX12	91 lbs.	15
Box & Cover Assembly	13” x 24” x 18”	10K	8	A6001946APCX18	117 lbs.	10
	13” x 24” x 18”	20K	15 / 22	A6001946TAPCX18 / A6001946HDAPCX18	125 lbs.	10
Box & Cover Assembly	13” x 24” x 24”	10K	8	A6001946APCX24	125 lbs.	5
	13” x 24” x 24”	20K	15 / 22	A6001946TAPCX24 / A6001946HDAPCX24	133 lbs.	5

COMPONENTS

MORE COVER VARIATIONS ARE AVAILABLE IN OUR “COVER SECTION”

DESCRIPTION	NOMINAL SIZE W x L x D	LOAD RATING	ANSI TIER	PART NUMBER	APPROX. WEIGHT	PALLET QTY.
Replacement Covers	13” x 24”	10K	8	A6001866	33 lbs.	50
	13” x 24”	20K	15 / 22	A6001969 / A6001969HD	41 lbs.	50
Replacement Boxes	13” x 24” x 12”	10K/ 20K	8 /15	A6001946PCX12	50 lbs.	15
	13” x 24” x 18”	10K / 20K	8 /15	A6001946PCX18	84 lbs.	10
	13” x 24” x 24”	10K / 20K	8 /15	A6001946PCX24	92 lbs.	5

- Boxes are Open Bottom and Stackable, also available with Solid Bottoms.
- For sizes not shown please contact Armorcast Products for more information.

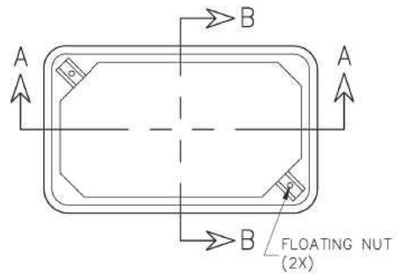
13” x 24” BOX ASSEMBLY

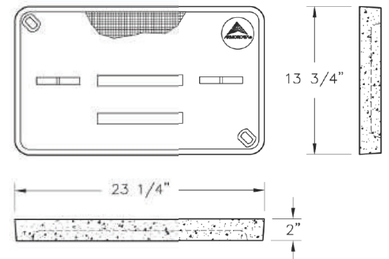
STANDARD DIMENSIONS

ARMORCAST PRODUCTS COMPANY — **POLYMER CONCRETE**

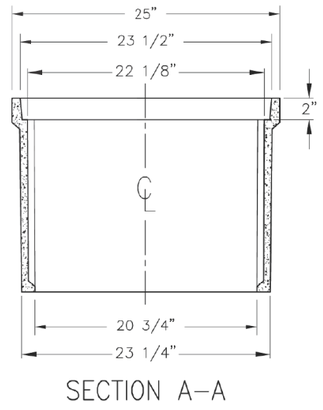
A6001946

POLYMER CONCRETE BOXES

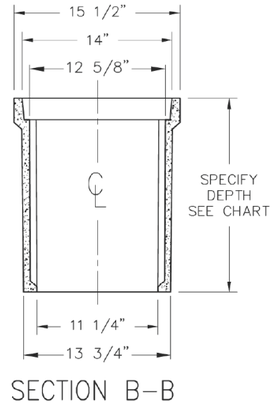




POLYMER CONCRETE COVER



SECTION A–A



SECTION B–B

POLYMER CONCRETE BOX

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)											
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION	OHM	Detroit	NO SCALE	DATE: 05/24/21
1	06/04/21		NEW HANDHOLE DETAIL								FILE:

JN: PW-7031 RIVERSIDE PARK

LIGHTING DETAIL SHEET — RIVERSIDE PARK

DRAWING: RIV L DET 025

SHEET: 142A

PROJECT NO. 2020138A DATE STARTED: 1/5/2021 DATE COMPLETED: 1/5/2021 LOG OF TEST BORING B-01

ELEVATION ft	LOG OF SOIL PROFILE	DEPTH (ft)	SAMPLE NO.	SAMPLE RECOVERY (in)	NO. OF BLOWS FOR 6-inch DRIVE	N VALUE	SAMPLE TIP DEPTH (ft)	UNCONFINED COMP STRENGTH (psf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	% PASSING #200
589.9	Ground Surface Elevation 590 ft	0											
	1 inch of sandy TOPSOIL, trace roots, trace gravel, black (0.1)												
	FILL - Stiff lean clay with sand, few topsoil, trace roots, trace gravel, brown and black (CL) (2.5)		SS1	14	1-2-3	5	1.5	2000*	18.4				
587.5			SS2	16	6-7-6	13	3.0	9000*	17.5				
	Hard to stiff LEAN CLAY, trace sand, trace gravel, occasional silt partings above 3 ft., brown (CL) (4.0)		SS3	24	2-2-4-5	6	5.0	3000*	22.3				
586.0		5											
	Stiff to very stiff LEAN CLAY, few sand, trace gravel, brown (CL) (9.0)		SS4	18	4-6-8	14	7.5	7000*	22.2				
581.0													
	Very stiff LEAN CLAY, few sand, trace gravel, gray (CL) (10.0)		SS5	18	4-6-6	12	10.0	6000*	23.9				
580.0		10											
	End of Boring at 10 feet												
		15											
		20											

▼ SPT N VALUE ▼ 10 20 30 40
● MOISTURE CONTENT (%) ● 10 20 30 40
■ UCC STRENGTH (psf) ■ 2000 4000 6000 8000

GROUNDWATER READINGS
First Encountered: none
Upon Completion: none

BORING LOCATION INFORMATION
Latitude: 42.31397389
Longitude: -83.08246389
Coordinates/GSE determined by:

KEY
Torvane
* Penetrometer
<> Disturbed Sample

Drilling Company: 7NT
Drill Rig: CME 55 ATV (Rig 286595)
Logged By: S. Panetta
Drilling Method: 2 1/4 inch HSA
Method Notes: ---
Hammer Type: Automatic
Backfilled With: Cuttings
Checked By: ALOG
QA/QC By: JA
Remarks:
Cave-in reported at 8 ft.
Ground surface elevations and boring coordinates collected with Trimble GPS with submeter accuracy

Somat Engineering

Riverside Park Improvement Project
Detroit, Michigan

PAGE 1 of 1

1/20/21

LOG OF TEST BORING RIVERSIDE PARK IMPROVEMENTS.GPJ SOMAT.GDT 1/20/21

PROJECT NO. 2020138A DATE STARTED: 1/4/2021 DATE COMPLETED: 1/4/2021 LOG OF TEST BORING B-02

ELEVATION ft	LOG OF SOIL PROFILE	DEPTH (ft)	SAMPLE NO.	SAMPLE RECOVERY (in)	NO. OF BLOWS FOR 6-inch DRIVE	N VALUE	SAMPLE TIP DEPTH (ft)	UNCONFINED COMP STRENGTH (psf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	% PASSING #200
589.6	Ground Surface Elevation 590 ft	0											
	5 inches of ASPHALTIC CEMENT CONCRETE (0.4)												
588.8	10 inches of PORTLAND CEMENT CONCRETE (1.3)												
	Stiff LEAN CLAY, few sand, trace gravel, mottled brown and gray (CL) (3.0)		SS1	18	3-3-3	6	2.8	3500*	25.1				
587.0			SS2	18	3-5-6	11	4.3	4500*	26.9				
	Very stiff LEAN CLAY, few sand, trace gravel, occasional silt partings, brown (CL) (8.5)	5	SS3	18	3-4-6	10	5.8	4500*	21.8				
581.5													
	Very stiff LEAN CLAY, trace sand, trace gravel, gray (CL) (10.0)		SS4	18	8-6-7	13	10.0	6500*	23.8				
580.0		10											
	End of Boring at 10 feet												
		15											
		20											

▼ SPT N VALUE ▼ 10 20 30 40
● MOISTURE CONTENT (%) ● 10 20 30 40
■ UCC STRENGTH (psf) ■ 2000 4000 6000 8000

GROUNDWATER READINGS
First Encountered: none
Upon Completion: none

BORING LOCATION INFORMATION
Latitude: 42.31387556
Longitude: -83.08260833
Coordinates/GSE determined by:

KEY
Torvane
* Penetrometer
<> Disturbed Sample

Drilling Company: 7NT
Drill Rig: CME 55 ATV (Rig 286595)
Logged By: R. Calkins
Drilling Method: 4 1/4 inch HSA
Method Notes: ---
Hammer Type: Automatic
Backfilled With: Cuttings/Patch
Checked By: ALOG
QA/QC By: JA
Remarks:
Ground surface elevations and boring coordinates collected with Trimble GPS with submeter accuracy

Somat Engineering

Riverside Park Improvement Project
Detroit, Michigan

PAGE 1 of 1

1/20/21

LOG OF TEST BORING RIVERSIDE PARK IMPROVEMENTS.GPJ SOMAT.GDT 1/20/21

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

Somat Engineering, INCORPORATED

Detroit

NO SCALE

DATE: 05/24/21

FILE:

JN: PW-7031
RIVERSIDE PARK

SOIL BORING LOG SHEET
RIVERSIDE PARK

DRAWING: RIV BORING 001

SHEET: 143

PROJECT NO. 2020138A DATE STARTED: 1/5/2021 DATE COMPLETED: 1/5/2021 LOG OF TEST BORING B-03

ELEVATION ft	LOG OF SOIL PROFILE	DEPTH (ft)	SAMPLE NO.	SAMPLE RECOVERY (in)	NO. OF BLOWS FOR 6-inch DRIVE	N VALUE	SAMPLE TIP DEPTH (ft)	UNCONFINED COMP STRENGTH (psf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	% PASSING #200
	Ground Surface Elevation 581 ft	0											
580.2	10 inches of PORTLAND CEMENT CONCRETE 0.8												
	FILL - Loose silty sand, trace organics, few gravel, trace clay, trace slag aggregates, black, moist (SM)		SS1	18	3-6-3	9	2.5						28
577.5	LOI test at depth of 2 ft. had organic content of 2.2% 3.5		SS2	18	3-4-3	7	4.0	2000*	16.7				
576.5	Stiff LEAN CLAY with sand, trace gravel, gray (CL) 4.5		SS3	24	2-4-7-7	11	6.0	6500*	23.7				
575.0	Very stiff LEAN CLAY, trace sand, trace gravel, brown (CL) 6.0	5	SS4	18	5-6-8	14	7.5	8500*	20.3				
571.0	Hard to very stiff LEAN CLAY, few sand, trace gravel, brown to gray (CL) 10.0		SS5	18	4-6-6	12	10.0	6000*	21.1				
	End of Boring at 10 feet	10											
		15											
		20											

▼ SPT N VALUE ▼ 10 20 30 40
● MOISTURE CONTENT (%) ● 10 20 30 40
■ UCC STRENGTH (psf) ■ 2000 4000 6000 8000

LOG OF TEST BORING RIVERSIDE PARK IMPROVEMENTS.GPJ SOMAT.GDT 1/20/21

GROUNDWATER READINGS
First Encountered: none
Upon Completion: none

BORING LOCATION INFORMATION
Latitude: 42.31352083
Longitude: -83.08107222

Coordinates/GSE determined by:

KEY
Torvane
* Penetrometer
<> Disturbed Sample

Drilling Company: 7NT
Drill Rig: CME 55 ATV (Rig 286595)
Logged By: R. Calkins
Drilling Method: 2 1/4 inch HSA
Method Notes: ---
Hammer Type: Automatic
Backfilled With: Cuttings/Patch
Checked By: ALOG
QA/QC By: JA
Remarks:
Ground surface elevations and boring coordinates collected with Trimble GPS with submeter accuracy

Somat Engineering

Riverside Park Improvement Project
Detroit, Michigan

PAGE 1 of 1

1/20/21

PROJECT NO. 2020138A DATE STARTED: 1/5/2021 DATE COMPLETED: 1/5/2021 LOG OF TEST BORING B-04

ELEVATION ft	LOG OF SOIL PROFILE	DEPTH (ft)	SAMPLE NO.	SAMPLE RECOVERY (in)	NO. OF BLOWS FOR 6-inch DRIVE	N VALUE	SAMPLE TIP DEPTH (ft)	UNCONFINED COMP STRENGTH (psf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	% PASSING #200
	Ground Surface Elevation 582 ft	0											
581.6	4.5 inches of ASPHALTIC CEMENT CONCRETE 0.4												
581.0	7 inches of PORTLAND CEMENT CONCRETE 1.0												
580.5	FILL - Poorly graded fine to coarse sand, few gravel, trace silt, gray, moist (SP) 1.5		SS1	14	2-4-3	7	3.0	4000*	27.4				
579.0	Very stiff LEAN CLAY, few sand, trace gravel, dark brown (CL) 3.0		SS2	16	2-2-4	6	4.5	2500*	27.3				
	Stiff LEAN CLAY, few sand, trace gravel, mottled brown and gray (CL)	5	SS3	14	1-2-3	5	6.0	3500*	26.6				
576.0	6.0		SS4		4-9-15	24	7.5	7000*	22.5				
	Very stiff LEAN CLAY, few sand, trace gravel, mottled brown and gray to gray (CL)												
572.0	10.0		SS5		6-8-8	16	10.0	6500*	19.7				
	End of Boring at 10 feet	10											
		15											
		20											

▼ SPT N VALUE ▼ 10 20 30 40
● MOISTURE CONTENT (%) ● 10 20 30 40
■ UCC STRENGTH (psf) ■ 2000 4000 6000 8000

LOG OF TEST BORING RIVERSIDE PARK IMPROVEMENTS.GPJ SOMAT.GDT 1/20/21

GROUNDWATER READINGS
First Encountered: 4 feet
Upon Completion: none

BORING LOCATION INFORMATION
Latitude: 42.31266167
Longitude: -83.08177778

Coordinates/GSE determined by:

KEY
Torvane
* Penetrometer
<> Disturbed Sample

Drilling Company: 7NT
Drill Rig: CME 55 ATV (Rig 286595)
Logged By: S. Panetta
Drilling Method: 2 1/4 inch HSA
Method Notes: ---
Hammer Type: Automatic
Backfilled With: Cuttings/Patch
Checked By: ALOG
QA/QC By: JA
Remarks:
Ground surface elevations and boring coordinates collected with Trimble GPS with submeter accuracy

Somat Engineering

Riverside Park Improvement Project
Detroit, Michigan

PAGE 1 of 1

1/20/21

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

Somat Engineering, INCORPORATED

Detroit CITY OF

NO SCALE

DATE: 05/24/21

FILE:

JN: PW-7031
RIVERSIDE PARK

SOIL BORING LOG SHEET
RIVERSIDE PARK

DRAWING: RIV BORING 002

SHEET: 144

PROJECT NO. 2020138A DATE STARTED: 1/4/2021 DATE COMPLETED: 1/4/2021 LOG OF TEST BORING B-05

ELEVATION ft	LOG OF SOIL PROFILE	DEPTH (ft)	SAMPLE NO.	SAMPLE RECOVERY (in)	NO. OF BLOWS FOR 6-inch DRIVE	N VALUE	SAMPLE TIP DEPTH (ft)	UNCONFINED COMP STRENGTH (psf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	% PASSING #200
	Ground Surface Elevation 581 ft												
580.3	8.5 inches of ASPHALTIC CEMENT CONCRETE 0.7	0											
580.0	FILL - Mixed fine to coarse sand and slag, black (Base Material) 1.0		BS1				1.0						1
579.5	FILL - Stiff sandy lean clay, trace gravel, trace brick debris, black and brown (CL) 1.5		SS1	13	4-6-6	12	2.5	2500*	21.0				
577.5	FILL - Medium dense poorly graded fine sand with silt, brown, moist (SP-SM) 3.5		SS2	11	2-4-6	10	4.0	2500*	23.0				
576.0	FILL - Stiff sandy lean clay, few sand, occasional black fine sand partings, alternating layers of black and brown (CL) 5.0	5	SS3	14	2-3-2	5	5.5						
	FILL - Very loose to loose clayey fine sand, few gravel, occasional clay layers between 6-7.5 ft., layer of brick debris at 10 ft,. black, wet (SC)		SS4	18	0-2-2	4	7.5						
			SS5	18	2-3-5	8	10.0						
569.5	11.5	10	SS6	18	7-2-5	7	12.5	5000*	18.9				
	Very stiff LEAN CLAY, trace sand, trace gravel, gray (CL)		SS7	18	5-6-7	13	15.0	6500*	24.2				
566.0	15.0	15											
	End of Boring at 15 feet	20											

▼ SPT N VALUE ▼ 10 20 30 40
● MOISTURE CONTENT (%) ● 10 20 30 40
■ UCC STRENGTH (psf) ■ 2000 4000 6000 8000

GROUNDWATER READINGS
First Encountered: 4.5 feet
Upon Completion: 6 feet

BORING LOCATION INFORMATION
Latitude: 42.31262
Longitude: -83.08099167

Coordinates/GSE determined by:

KEY
Torvane
* Penetrometer
<> Disturbed Sample

Drilling Company: 7NT
Drill Rig: CME 55 ATV (Rig 286595)
Logged By: R. Calkins
Drilling Method: 4 1/4 inch HSA
Method Notes: ---
Hammer Type: Automatic
Backfilled With: Cuttings/Patch
Checked By: ALOG
QA/QC By: JA
Remarks:
Ground surface elevations and boring coordinates collected with Trimble GPS with submeter accuracy

Somat Engineering

Riverside Park Improvement Project
Detroit, Michigan

PAGE 1 of 1

1/20/21

LOG OF TEST BORING RIVERSIDE PARK IMPROVEMENTS.GPJ SOMAT.GDT 1/20/21

PROJECT NO. 2020138A DATE STARTED: 1/5/2021 DATE COMPLETED: 1/5/2021 LOG OF TEST BORING B-06

ELEVATION ft	LOG OF SOIL PROFILE	DEPTH (ft)	SAMPLE NO.	SAMPLE RECOVERY (in)	NO. OF BLOWS FOR 6-inch DRIVE	N VALUE	SAMPLE TIP DEPTH (ft)	UNCONFINED COMP STRENGTH (psf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	% PASSING #200
	Ground Surface Elevation 580 ft												
579.0	12 inches of sandy TOPSOIL, trace roots, trace gravel, black 1.0	0	SS1	18	2-3-4	7	1.5						
578.5	FILL - Poorly graded fine sand, trace clay, trace silt, trace gravel, trace slag, black, moist (SP) 1.5		SS2	18	4-5-7	12	3.0	4000*	25.1				
577.0	FILL - Very stiff lean clay with sand, trace organics, trace gravel, occasional pockets of slag aggregate (glassy), brown with layers of dark brown (CL) 3.0		SS3	24	4-5-10-10	15	5.0						
	LOI test at depth of 3 ft. had organic content of 3.3%	5											
574.0	FILL - Medium dense poorly graded fine sand with slag aggregate (glassy), trace clay, trace silt, trace gravel, brown/gray/black, moist (CL) 6.0		SS4	18	3-4-4	8	7.5	8500*	18.1				
571.5	Hard LEAN CLAY, few sand, trace gravel, mottled brown and gray (CL) 8.5												
570.0	Stiff LEAN CLAY, few sand, trace gravel, gray (CL) 10.0	10	SS5	18	2-3-3	6	10.0	2000*	19.5				
	End of Boring at 10 feet	15											
		20											

▼ SPT N VALUE ▼ 10 20 30 40
● MOISTURE CONTENT (%) ● 10 20 30 40
■ UCC STRENGTH (psf) ■ 2000 4000 6000 8000

GROUNDWATER READINGS
First Encountered: none
Upon Completion: none

BORING LOCATION INFORMATION
Latitude: 42.31194972
Longitude: -83.081275

Coordinates/GSE determined by:

KEY
Torvane
* Penetrometer
<> Disturbed Sample

Drilling Company: 7NT
Drill Rig: CME 55 ATV (Rig 286595)
Logged By: R. Calkins
Drilling Method: 2 1/4 inch HSA
Method Notes: ---
Hammer Type: Automatic
Backfilled With: Cuttings
Checked By: ALOG
QA/QC By: JA
Remarks:
Ground surface elevations and boring coordinates collected with Trimble GPS with submeter accuracy

Somat Engineering

Riverside Park Improvement Project
Detroit, Michigan

PAGE 1 of 1

1/20/21

LOG OF TEST BORING RIVERSIDE PARK IMPROVEMENTS.GPJ SOMAT.GDT 1/20/21

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

Somat Engineering, INCORPORATED

City of Detroit

NO SCALE

DATE: 05/24/21

FILE:

JN: PW-7031
RIVERSIDE PARK

SOIL BORING LOG SHEET
RIVERSIDE PARK

DRAWING: RIV BORING 003

SHEET: 145

PROJECT NO. 2020138A DATE STARTED: 1/5/2021 DATE COMPLETED: 1/5/2021 LOG OF TEST BORING B-07

ELEVATION ft	LOG OF SOIL PROFILE	DEPTH (ft)	SAMPLE NO.	SAMPLE RECOVERY (in)	NO. OF BLOWS FOR 6-inch DRIVE	N VALUE	SAMPLE TIP DEPTH (ft)	UNCONFINED COMP STRENGTH (psf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	% PASSING #200
	Ground Surface Elevation 580 ft	0											
578.0	24 inches of sandy TOPSOIL, trace roots, trace gravel, black (2.0)		SS1	18	2-2-2	4	1.5						
576.0	FILL - Very stiff lean clay with sand, trace roots, trace gravel, occasional topsoil pockets, brown (CL) (4.0)		SS2	18	3-4-5	9	3.0	6500*	18.5				
574.0	FILL - Medium dense poorly graded fine sand with slag aggregate and gravel, trace clay, trace silt, brown and black, moist (SP) (6.0)	5	SS3	24	4-5-8	13	5.0						
571.5	FILL - Mixed very loose fine to coarse sand and slag aggregate (glassy), black, moist to wet (8.5)		SS4	4	2-2-2	4	7.5						
569.0	Medium LEAN CLAY, few sand, trace gravel, gray (CL) (11.0)	10	SS5	18	0-0-2	2	10.0	1200#	26.4				
567.5	Very stiff LEAN CLAY, few sand, trace gravel, occasional silt partings, gray (CL) (12.5)		SS6	18	7-10-12	22	12.5	7000*	16.0				
	End of Boring at 12.5 feet	15											
		20											

▼ SPT N VALUE ▼ 10 20 30 40
● MOISTURE CONTENT (%) ● 10 20 30 40
■ UCC STRENGTH (psf) ■ 2000 4000 6000 8000

GROUNDWATER READINGS
First Encountered: 8.5 feet
Upon Completion: none

BORING LOCATION INFORMATION
Latitude: 42.31178222
Longitude: -83.08084167

Coordinates/GSE determined by:

KEY
Torvane
* Penetrometer
<> Disturbed Sample

Drilling Company: 7NT
Drill Rig: CME 55 ATV (Rig 286595)
Logged By: R. Calkins
Drilling Method: 2 1/4 inch HSA
Method Notes: ---
Hammer Type: Automatic
Backfilled With: Cuttings
Checked By: ALOG
QA/QC By: JA
Remarks:
Ground surface elevations and boring coordinates collected with Trimble GPS with submeter accuracy

Somat Engineering

Riverside Park Improvement Project
Detroit, Michigan

PAGE 1 of 1

1/20/21

LOG OF TEST BORING RIVERSIDE PARK IMPROVEMENTS.GPJ SOMAT.GDT 1/20/21

PROJECT NO. 2020138A DATE STARTED: 1/5/2021 DATE COMPLETED: 1/5/2021 LOG OF TEST BORING B-08

ELEVATION ft	LOG OF SOIL PROFILE	DEPTH (ft)	SAMPLE NO.	SAMPLE RECOVERY (in)	NO. OF BLOWS FOR 6-inch DRIVE	N VALUE	SAMPLE TIP DEPTH (ft)	UNCONFINED COMP STRENGTH (psf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	% PASSING #200
	Ground Surface Elevation 579 ft	0											
578.3	8 inches of sandy TOPSOIL, trace roots, trace gravel, black (0.7)		SS1	17	3-8-15	23	1.5						
576.0	FILL - Mixed medium dense poorly graded fine to coarse sand, slag aggregate (glassy) and concrete debris, few organics, trace clay, trace silt, trace gravel, black, moist (3.0)		SS2	6	9-6-4	10	3.0						
	LOI test at depth of 3 ft had organic content of 3.5%	5	SS3	18	1-2-1-2	3	5.0	2000*	24.9				
572.5	FILL - Stiff lean clay with sand, trace gravel, trace slag aggregate (glassy), trace concrete debris, brown/gray/black (CL) (6.5)		SS4	18	1-1-2	3	7.5						
570.5	FILL - Pulped wood (Saw dust) (8.5)												
569.0	FILL - Mixture of very soft lean clay and saw dust, trace organics, trace gravel, gray (10.0)	10	SS5	18	0-0-0	0	10.0	400#	28.9				
	LOI test at depth of 10 ft. had organic content of 3.5%		NR6		0-0-0	0	12.5						
	Field Engineer reported wet saw dust fill in auger cuttings												
564.0	(15.0)	15	NR7		0-3-2	5	15.0						
	End of Boring at 15 feet	20											

▼ SPT N VALUE ▼ 10 20 30 40
● MOISTURE CONTENT (%) ● 10 20 30 40
■ UCC STRENGTH (psf) ■ 2000 4000 6000 8000

GROUNDWATER READINGS
First Encountered: 10 feet
Upon Completion: 4 feet

BORING LOCATION INFORMATION
Latitude: 42.31131583
Longitude: -83.08064167

Coordinates/GSE determined by:

KEY
Torvane
* Penetrometer
<> Disturbed Sample

Drilling Company: 7NT
Drill Rig: CME 55 ATV (Rig 286595)
Logged By: S. Panetta
Drilling Method: 2 1/4 inch HSA
Method Notes: ---
Hammer Type: Automatic
Backfilled With: Cuttings
Checked By: ALOG
QA/QC By: JA
Remarks:
Ground surface elevations and boring coordinates collected with Trimble GPS with submeter accuracy

Somat Engineering

Riverside Park Improvement Project
Detroit, Michigan

PAGE 1 of 1

1/20/21

LOG OF TEST BORING RIVERSIDE PARK IMPROVEMENTS.GPJ SOMAT.GDT 1/20/21

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

Somat Engineering, INCORPORATED

CITY OF Detroit

NO SCALE

DATE: 05/24/21

FILE:

JN: PW-7031
RIVERSIDE PARK

SOIL BORING LOG SHEET
RIVERSIDE PARK

DRAWING: RIV BORING 004

SHEET: 146

PROJECT NO. 2020138A DATE STARTED: 1/5/2021 DATE COMPLETED: 1/5/2021 LOG OF TEST BORING B-09

ELEVATION ft	LOG OF SOIL PROFILE	DEPTH (ft)	SAMPLE NO.	SAMPLE RECOVERY (in)	NO. OF BLOWS FOR 6-inch DRIVE	N VALUE	SAMPLE TIP DEPTH (ft)	UNCONFINED COMP STRENGTH (psf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	% PASSING #200
	Ground Surface Elevation 583 ft												
582.0	12 inches of sandy TOPSOIL, trace roots, trace gravel, black (1.0)	0	SS1	18	2-3-4	7	1.5						
578.5	FILL - Loose to medium dense silty sand, trace gravel, trace clay, trace slag aggregate, trace brick debris, black, moist (SM) (4.5)		SS2	18	3-3-7	10	3.0						38
			SS3	24	4-3-4-4	7	5.0	4500*	21.9				
577.0	FILL - Very stiff lean clay with sand, trace gravel, trace brick debris, brown with pockets of dark brown (CL) (6.0)	5											
575.5	FILL - Loose poorly graded fine sand, black, moist (SP) (7.5)		SS4	18	4-3-2	5	7.5						
573.0	Stiff LEAN CLAY, few sand, trace gravel, gray (CL) (10.0)		SS5	18	3-2-3	5	10.0	2500*	21.9				
	End of Boring at 10 feet	10											
		15											
		20											

SPT N VALUE: 10 20 30 40
MOISTURE CONTENT (%): 10 20 30 40
UCC STRENGTH (psf): 2000 4000 6000 8000

GROUNDWATER READINGS
First Encountered: 10 feet
Upon Completion: 4 feet

BORING LOCATION INFORMATION
Latitude: 42.31233278
Longitude: -83.08113889

Coordinates/GSE determined by:

KEY
Torvane
* Penetrometer
<> Disturbed Sample

Drilling Company: 7NT
Drill Rig: CME 55 ATV (Rig 286595)
Logged By: S. Panetta
Drilling Method: 2 1/4 inch HSA
Method Notes: ---
Hammer Type: Automatic
Backfilled With: Cuttings
Checked By: ALOG
QA/QC By: JA
Remarks:
Ground surface elevations and boring coordinates collected with Trimble GPS with submeter accuracy

Somat Engineering

Riverside Park Improvement Project
Detroit, Michigan

PAGE 1 of 1

1/20/21

LOG OF TEST BORING RIVERSIDE PARK IMPROVEMENTS.GPJ SOMAT.GDT 1/20/21

PROJECT NO. 2020138A DATE STARTED: 1/4/2021 DATE COMPLETED: 1/4/2021 LOG OF TEST BORING B-10

ELEVATION ft	LOG OF SOIL PROFILE	DEPTH (ft)	SAMPLE NO.	SAMPLE RECOVERY (in)	NO. OF BLOWS FOR 6-inch DRIVE	N VALUE	SAMPLE TIP DEPTH (ft)	UNCONFINED COMP STRENGTH (psf)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	% PASSING #200
	Ground Surface Elevation 580 ft												
579.5	7 inches of ASPHALTIC CEMENT CONCRETE (0.5)	0											
578.5	FILL - Mixed fine to coarse sand and gravel with silt, dark brown, moist (Base Material) (1.5)		SS1	18	6-4-3	7	2.5						4
576.5	FILL - Loose well graded gravel with sand, dark brown, moist (GW) (3.5)		SS2	18	3-4-5	9	4.0	6000*	24.2				
	Very stiff LEAN CLAY, few sand, trace gravel, brown with seams of gray above 5.5 ft., brown to gray (CL)	5	SS3	18	2-3-6	9	5.5	4500*	25.0				
			SS4	18	5-6-7	13	7.5	6000*	27.6				
571.0	(9.0)		SS5	18	3-5-5	10	9.0	6500*	19.3				
	End of Boring at 9 feet Boring terminated due to auger refusal on unknown obstruction (possible boulder)	10											
		15											
		20											

SPT N VALUE: 10 20 30 40
MOISTURE CONTENT (%): 10 20 30 40
UCC STRENGTH (psf): 2000 4000 6000 8000

GROUNDWATER READINGS
First Encountered: 6 feet
Upon Completion: 6.5 feet

BORING LOCATION INFORMATION
Latitude: 42.31202667
Longitude: -83.08181389

Coordinates/GSE determined by:

KEY
Torvane
* Penetrometer
<> Disturbed Sample

Drilling Company: 7NT
Drill Rig: CME 55 ATV (Rig 286595)
Logged By: R. Calkins
Drilling Method: 4 1/4 inch HSA
Method Notes: ---
Hammer Type: Automatic
Backfilled With: Cuttings/Patch
Checked By: ALOG
QA/QC By: JA
Remarks:
Ground surface elevations and boring coordinates collected with Trimble GPS with submeter accuracy

Somat Engineering

Riverside Park Improvement Project
Detroit, Michigan

PAGE 1 of 1

1/20/21

LOG OF TEST BORING RIVERSIDE PARK IMPROVEMENTS.GPJ SOMAT.GDT 1/20/21

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

Somat Engineering, INCORPORATED

City of Detroit

NO SCALE

DATE: 05/24/21

FILE:

JN: PW-7031
RIVERSIDE PARK

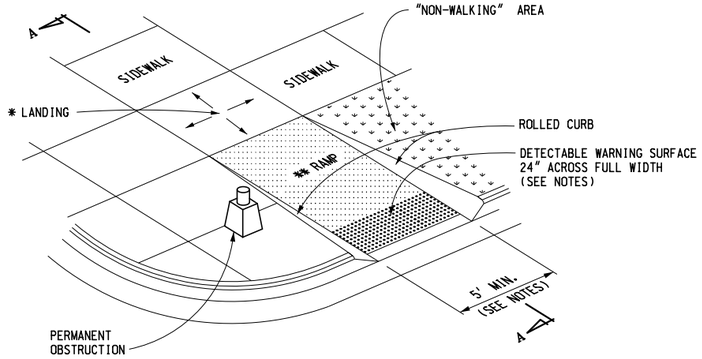
SOIL BORING LOG SHEET
RIVERSIDE PARK

DRAWING: RIV BORING 005

SHEET: 147

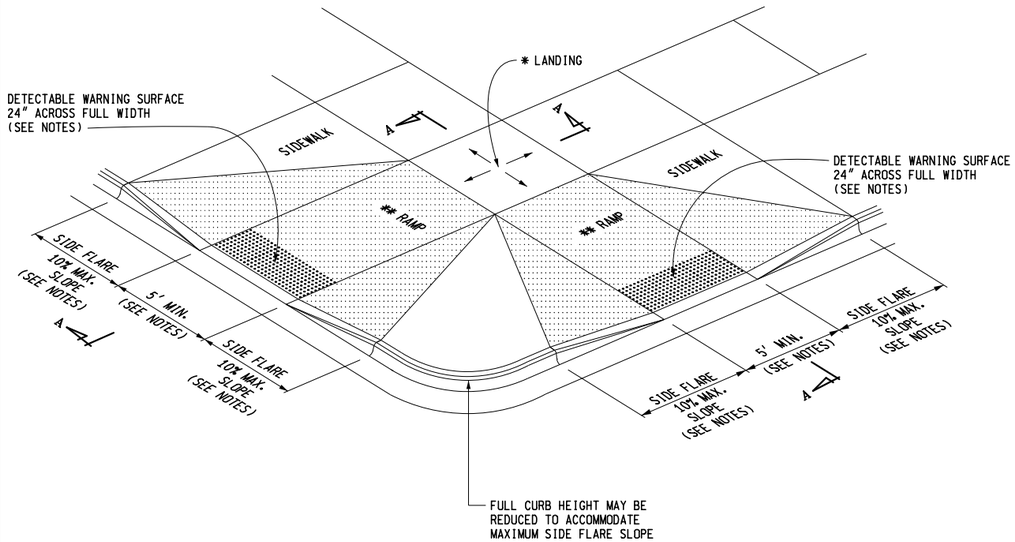
* MAXIMUM LANDING SLOPE IS 2.0% IN EACH DIRECTION OF TRAVEL. LANDING MINIMUM DIMENSIONS 5′ x 5′. SEE NOTES.

** MAXIMUM RAMP CROSS SLOPE IS 2.0%, RUNNING SLOPE 5% – 7% (8.3% MAXIMUM). SEE NOTES.



CURB RAMP TYPE R

(ROLLED SIDES)



CURB RAMP TYPE F

(FLARED SIDES, TWO RAMPS SHOWN)

MDOT Michigan Department of Transportation

PREPARED BY DESIGN DIVISION

DRAWN BY: B.L.T.

CHECKED BY: W.K.P.

DEPARTMENT DIRECTOR
Paul C. Ajegba

APPROVED BY: _____
DIRECTOR, BUREAU OF FIELD SERVICES

APPROVED BY: _____
DIRECTOR, BUREAU OF DEVELOPMENT

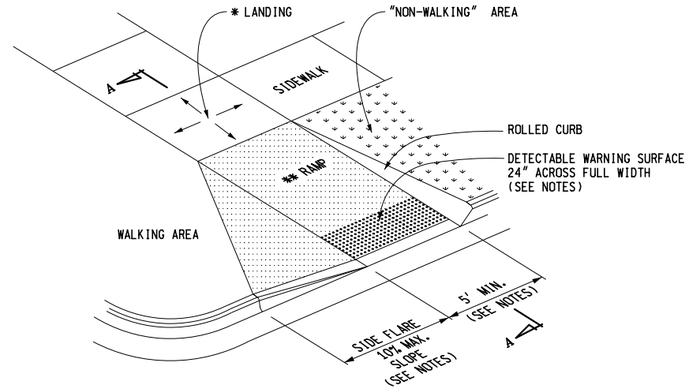
MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR

CURB RAMP AND DETECTABLE WARNING DETAILS

F.H.W.A. APPROVAL	5-8-2020 PLAN DATE	R-28-J	SHEET 1 OF 7

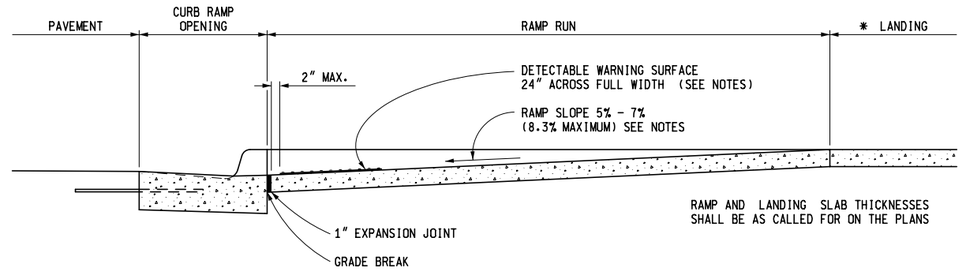
* MAXIMUM LANDING SLOPE IS 2.0% IN EACH DIRECTION OF TRAVEL. LANDING MINIMUM DIMENSIONS 5′ x 5′. SEE NOTES.

** MAXIMUM RAMP CROSS SLOPE IS 2.0%, RUNNING SLOPE 5% – 7% (8.3% MAXIMUM). SEE NOTES.



CURB RAMP TYPE RF

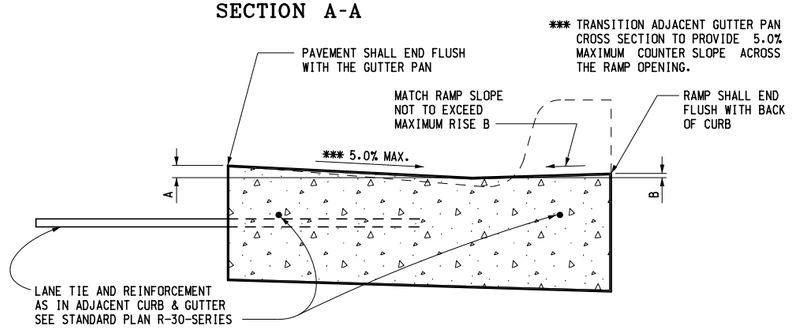
(ROLLED / FLARED SIDES)



SECTION A-A

CURB TYPE	MAXIMUM RISE (INCHES) A	B
B1	3/4	1
B2	3/4	1
B3	3/4	1
D1	3/4	1
D2	3/4	1
D3	3/4	1
C1	1/2	1/2
C2	1/2	1/2
C3	3/4	1/2
C4	3/4	1/2
C5	1	1/2
C6	1	1/2
F1	1/2	1/2
F2	1/2	1/2
F3	3/4	1/2
F4	3/4	1/2
F5	1	1/2
F6	1	1/2

FOR CURB TYPES SEE STANDARD PLAN R-30-SERIES



SECTION THROUGH CURB RAMP OPENING

(TYPICAL ALL RAMP TYPES)

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR

CURB RAMP AND DETECTABLE WARNING DETAILS

F.H.W.A. APPROVAL	12-8-2020 PLAN DATE	R-28-J	SHEET 2 OF 7

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

MDOT Michigan Department of Transportation

NO SCALE

FILE:

DATE: 05/24/21

DESIGN UNIT:

TSC:

CS:

JN: PW-7031 RIVERSIDE PARK

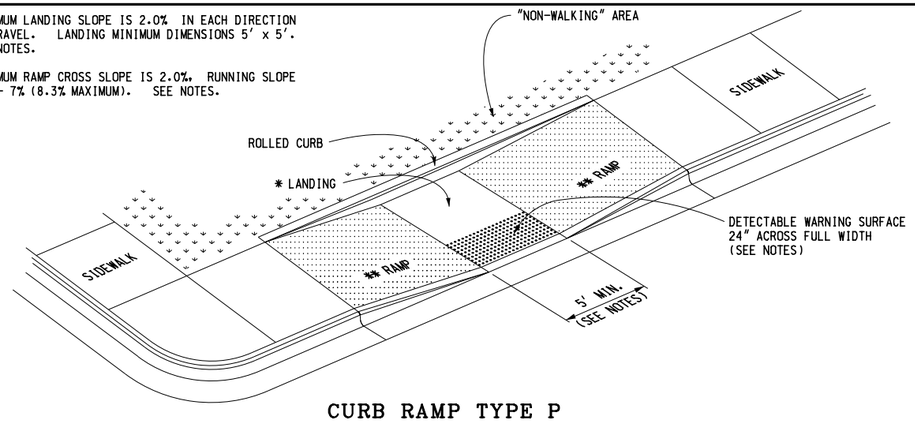
SPECIAL DETAILS
RIVERSIDE PARK

DRAWING

SHEET SECT 148

* MAXIMUM LANDING SLOPE IS 2.0% IN EACH DIRECTION OF TRAVEL. LANDING MINIMUM DIMENSIONS 5′ x 5′. SEE NOTES.

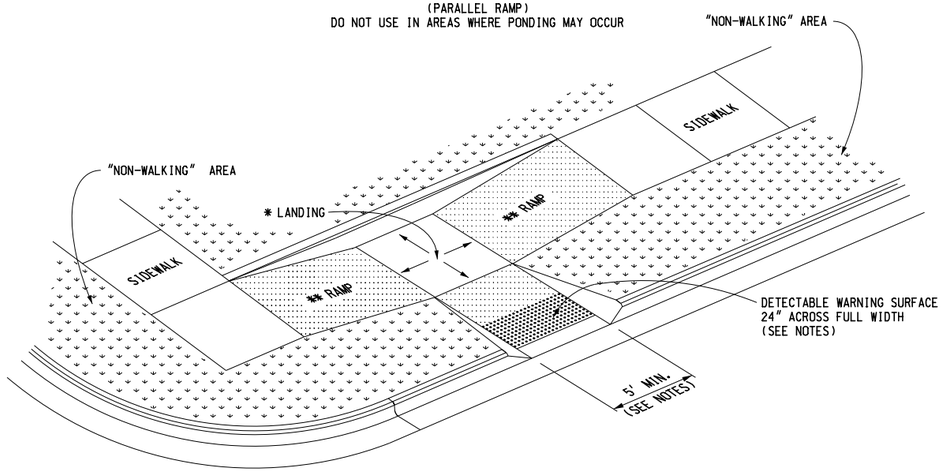
** MAXIMUM RAMP CROSS SLOPE IS 2.0%, RUNNING SLOPE 5% – 7% (8.3% MAXIMUM). SEE NOTES.



CURB RAMP TYPE P

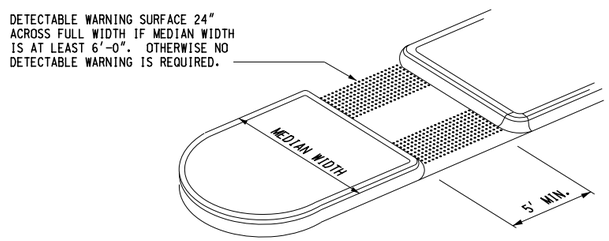
(PARALLEL RAMP)

DO NOT USE IN AREAS WHERE PONDING MAY OCCUR



CURB RAMP TYPE C

(COMBINATION RAMP)



CURB RAMP TYPE M

(MEDIAN ISLAND)

MICHIGAN DEPARTMENT OF TRANSPORTATION

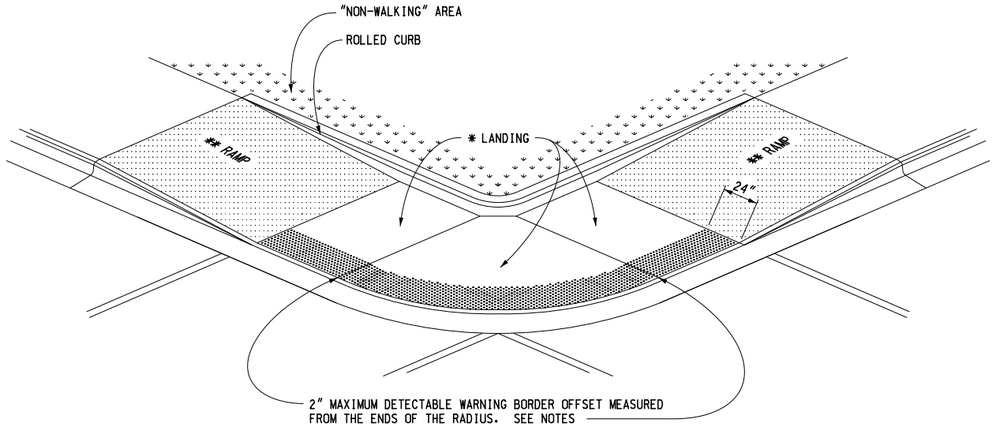
BUREAU OF DEVELOPMENT STANDARD PLAN FOR

CURB RAMP AND DETECTABLE WARNING DETAILS

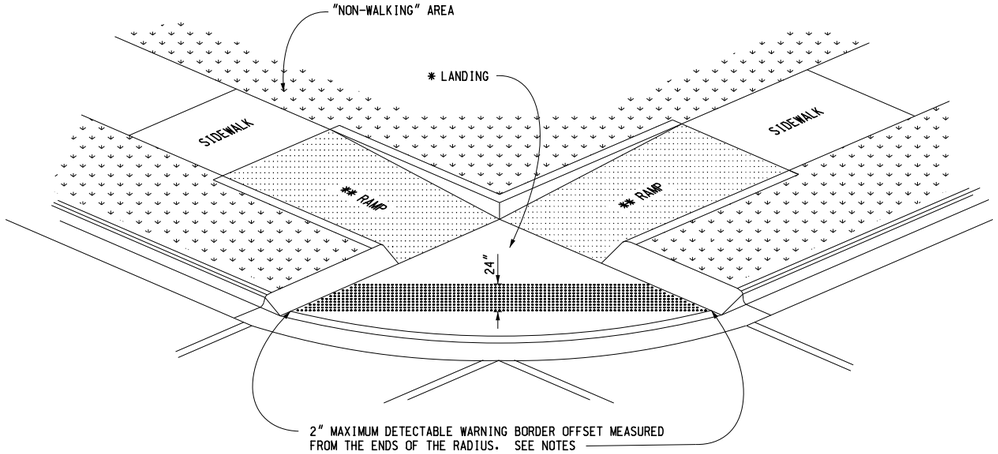
F.H.W.A. APPROVAL	5-8-2020 PLAN DATE	R-28-J	SHEET 3 OF 7

* MAXIMUM LANDING SLOPE IS 2.0% IN EACH DIRECTION OF TRAVEL. LANDING MINIMUM DIMENSIONS 5′ x 5′. SEE NOTES.

** MAXIMUM RAMP CROSS SLOPE IS 2.0%, RUNNING SLOPE 5% – 7% (8.3% MAXIMUM). SEE NOTES.



(RADIAL DETECTABLE WARNING SHOWN)



(TANGENT DETECTABLE WARNING SHOWN)

CURB RAMP TYPE D

(DEPRESSED CORNER)

USE ONLY WHEN INDEPENDENT DIRECTIONAL RAMPS CAN NOT BE CONSTRUCTED FOR EACH CROSSING DIRECTION

MICHIGAN DEPARTMENT OF TRANSPORTATION

BUREAU OF DEVELOPMENT STANDARD PLAN FOR

CURB RAMP AND DETECTABLE WARNING DETAILS

F.H.W.A. APPROVAL	5-8-2020 PLAN DATE	R-28-J	SHEET 4 OF 7

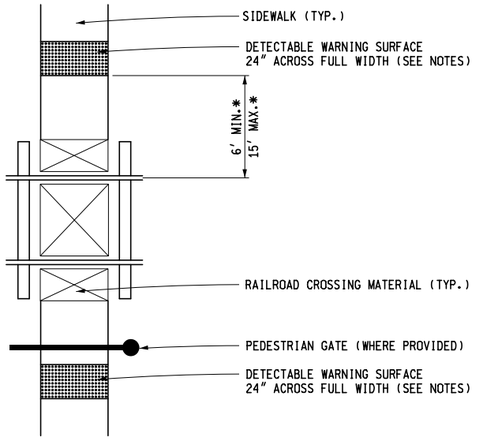
FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

MDOT Michigan Department of Transportation

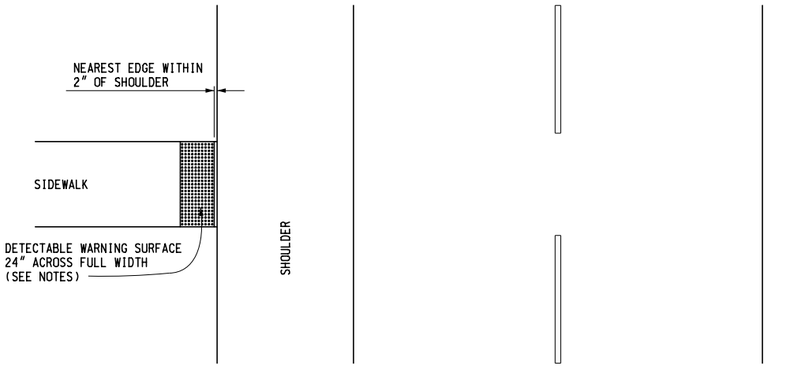
NO SCALE

	DATE: 05/24/21	CS:	SPECIAL DETAILS	DRAWING	SHEET
	DESIGN UNIT:	JN: PW-7031 RIVERSIDE PARK	RIVERSIDE PARK		SECT 149
FILE:	TSC:				

* THE DETECTABLE WARNING SURFACE SHALL BE LOCATED SO THAT THE EDGE NEAREST THE RAIL CROSSING IS 6′ MINIMUM AND 15′ MAXIMUM FROM THE CENTERLINE OF THE NEAREST RAIL. DO NOT PLACE DETECTABLE WARNING ON RAILROAD CROSSING MATERIAL.



DETECTABLE WARNING AT RAILROAD CROSSING

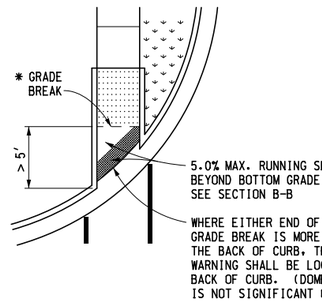


DETECTABLE WARNING AT FLUSH SHOULDER OR ROADWAY

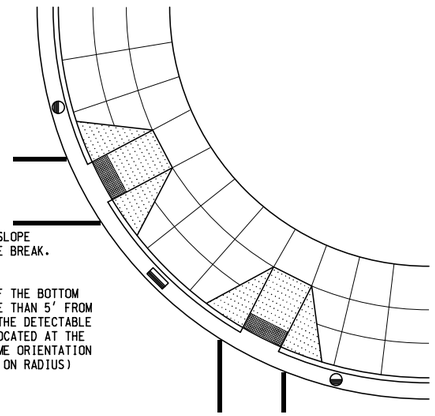
MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR

CURB RAMP AND DETECTABLE WARNING DETAILS

F.H.W.A. APPROVAL	5-8-2020 PLAN DATE	R-28-J	SHEET 5 OF 7

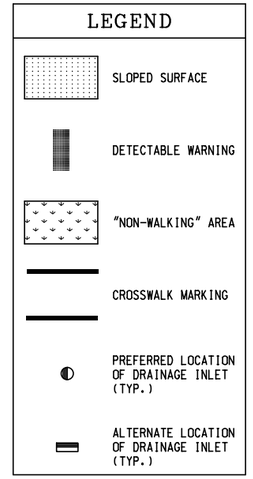


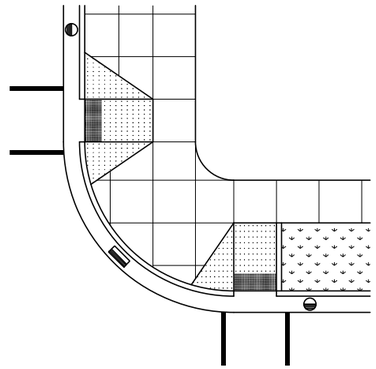
CURB RAMP LOCATED IN RADIUS (TYPE R SHOWN)
(GRADE BREAK OFFSET GREATER THAN 5′)



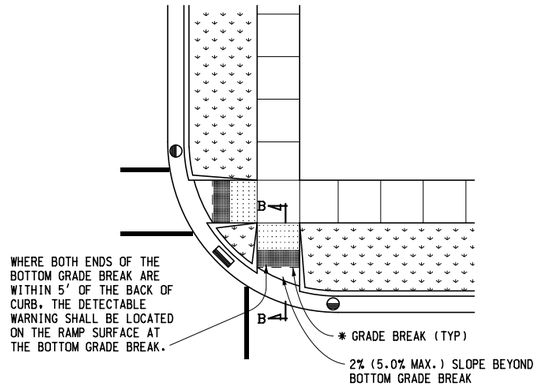
CURB RAMP PERPENDICULAR TO RADIAL CURB (TYPE F SHOWN)

(USE WITH RADIAL CURB WHEN THE CROSSWALK AND CURB RAMP ARE NOT ALIGNED)





CURB RAMP PERPENDICULAR TO TANGENT CURB
(TYPE F AND TYPE RF SHOWN)

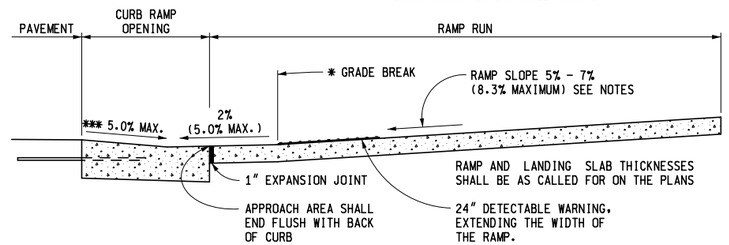


CURB RAMP LOCATED IN RADIUS (TYPE R SHOWN)
(GRADE BREAK OFFSET LESS THAN 5′)

* GRADE BREAKS AT THE TOP AND BOTTOM OF CURB RAMPS SHALL BE PERPENDICULAR TO THE DIRECTION OF TRAVEL.

*** TRANSITION ADJACENT GUTTER PAN CROSS SECTION TO PROVIDE 5.0% MAXIMUM COUNTER SLOPE ACROSS THE RAMP OPENING.

SEE SHEET 2 FOR CURB RAMP OPENING DETAILS.



SECTION B-B
SIDEWALK RAMP ORIENTATION

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR

CURB RAMP AND DETECTABLE WARNING DETAILS

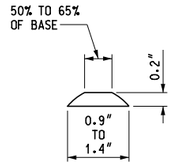
F.H.W.A. APPROVAL	5-8-2020 PLAN DATE	R-28-J	SHEET 6 OF 7

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

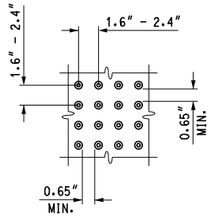
MDOT Michigan Department of Transportation

NO SCALE

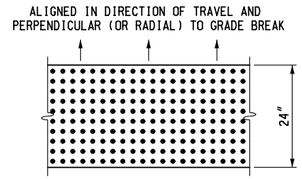
	DATE: 05/24/21	CS:	SPECIAL DETAILS	DRAWING	SHEET
	DESIGN UNIT:	JN: PW-7031 RIVERSIDE PARK	RIVERSIDE PARK		SECT 150
FILE:	TSC:				



DOME SECTION



DOME SPACING



DOME ALIGNMENT

DETECTABLE WARNING DETAILS

NOTES:

DETAILS SPECIFIED ON THIS PLAN APPLY TO ALL CONSTRUCTION, RECONSTRUCTION, OR ALTERATION OF STREETS, CURBS, OR SIDEWALKS IN THE PUBLIC RIGHT OF WAY.

CURB RAMPS ARE TO BE LOCATED AS SPECIFIED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

RAMPS SHALL BE PROVIDED AT ALL CORNERS OF AN INTERSECTION WHERE THERE IS EXISTING OR PROPOSED SIDEWALK AND CURB. RAMPS SHALL ALSO BE PROVIDED AT MARKED AND/OR SIGNALIZED MID-BLOCK CROSSINGS.

SURFACE TEXTURE OF THE RAMP SHALL BE THAT OBTAINED BY A COARSE BROOMING, TRANSVERSE TO THE RUNNING SLOPE.

SIDEWALK SHALL BE RAMPED WHERE THE DRIVEWAY CURB IS EXTENDED ACROSS THE WALK.

CARE SHALL BE TAKEN TO ASSURE A UNIFORM GRADE ON THE RAMP. WHERE CONDITIONS PERMIT, IT IS DESIRABLE THAT THE SLOPE OF THE RAMP BE IN ONLY ONE DIRECTION, PARALLEL TO THE DIRECTION OF TRAVEL.

RAMP WIDTH SHALL BE INCREASED, IF NECESSARY, TO ACCOMMODATE SIDEWALK SNOW REMOVAL EQUIPMENT NORMALLY USED BY THE MUNICIPALITY.

WHEN 5′ MINIMUM WIDTHS ARE NOT PRACTICABLE, RAMP WIDTH MAY BE REDUCED TO NOT LESS THAN 4′ AND LANDINGS TO NOT LESS THAN 4′ x 4′.

CURB RAMPS WITH A RUNNING SLOPE ≤5% DO NOT REQUIRE A TOP LANDING. HOWEVER, ANY CONTINUOUS SIDEWALK OR PEDESTRIAN ROUTE CROSSING THROUGH OR INTERSECTING THE CURB RAMP MUST INDEPENDENTLY MAINTAIN A CROSS SLOPE NOT GREATER THAN 2% PERPENDICULAR TO ITS OWN DIRECTION(S) OF TRAVEL.

DETECTABLE WARNING SURFACE COVERAGE IS 24″ MINIMUM IN THE DIRECTION OF RAMP/PATH TRAVEL AND THE FULL WIDTH OF THE RAMP/PATH OPENING EXCLUDING CURBED OR FLARED CURB TRANSITION AREAS. A BORDER OFFSET NOT GREATER THAN 2″ MEASURED ALONG THE EDGES OF THE DETECTABLE WARNING IS ALLOWABLE. FOR RADIAL CURB THE OFFSET IS MEASURED FROM THE ENDS OF THE RADIUS.

FOR NEW ROADWAY CONSTRUCTION, THE RAMP CROSS SLOPE MAY NOT EXCEED 2.0%. FOR ALTERATIONS TO EXISTING ROADWAYS, THE CROSS SLOPE MAY BE TRANSITIONED TO MEET AN EXISTING ROADWAY GRADE. THE CROSS SLOPE TRANSITION SHALL BE APPLIED UNIFORMLY OVER THE FULL LENGTH OF THE RAMP.

THE MAXIMUM RUNNING SLOPE OF 8.3% IS RELATIVE TO A FLAT (0%) REFERENCE. HOWEVER, IT SHALL NOT REQUIRE ANY RAMP OR SERIES OF RAMPS TO EXCEED 15 FEET IN LENGTH NOT INCLUDING LANDINGS OR TRANSITIONS.

DRAINAGE STRUCTURES SHOULD NOT BE PLACED IN LINE WITH RAMPS. THE LOCATION OF THE RAMP SHOULD TAKE PRECEDENCE OVER THE LOCATION OF THE DRAINAGE STRUCTURE. WHERE EXISTING DRAINAGE STRUCTURES ARE LOCATED IN THE RAMP PATH OF TRAVEL, USE A MANUFACTURER'S ADA COMPLIANT GRATE. OPENINGS SHALL NOT BE GREATER THAN ½″. ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.

THE TOP OF THE JOINT FILLER FOR ALL RAMP TYPES SHALL BE FLUSH WITH THE ADJACENT CONCRETE.

CROSSWALK AND STOP LINE MARKINGS, IF USED, SHALL BE SO LOCATED AS TO STOP TRAFFIC SHORT OF RAMP CROSSINGS. SPECIFIC DETAILS FOR MARKING APPLICATIONS ARE GIVEN IN THE "MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

FLARED SIDES WITH A SLOPE OF 10% MAXIMUM, MEASURED ALONG THE ROADSIDE CURB LINE, SHALL BE PROVIDED WHERE AN UNOBSTRUCTED CIRCULATION PATH LATERALLY CROSSES THE CURB RAMP. FLARED SIDES ARE NOT REQUIRED WHERE THE RAMP IS BORDERED BY LANDSCAPING, UNPAVED SURFACE OR PERMANENT FIXED OBJECTS. WHERE THEY ARE NOT REQUIRED, FLARED SIDES CAN BE CONSIDERED IN ORDER TO AVOID SHARP CURB RETURNS AT RAMP OPENINGS.

DETECTABLE WARNING PLATES MUST BE INSTALLED USING FABRICATED OR FIELD CUT UNITS CAST AND/OR ANCHORED IN THE PAVEMENT TO RESIST SHIFTING OR HEAVING.

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR

CURB RAMP AND DETECTABLE WARNING DETAILS

F.H.W.A. APPROVAL	PLAN DATE	R-28-J	SHEET 7 OF 7
	5-8-2020		

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR

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

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