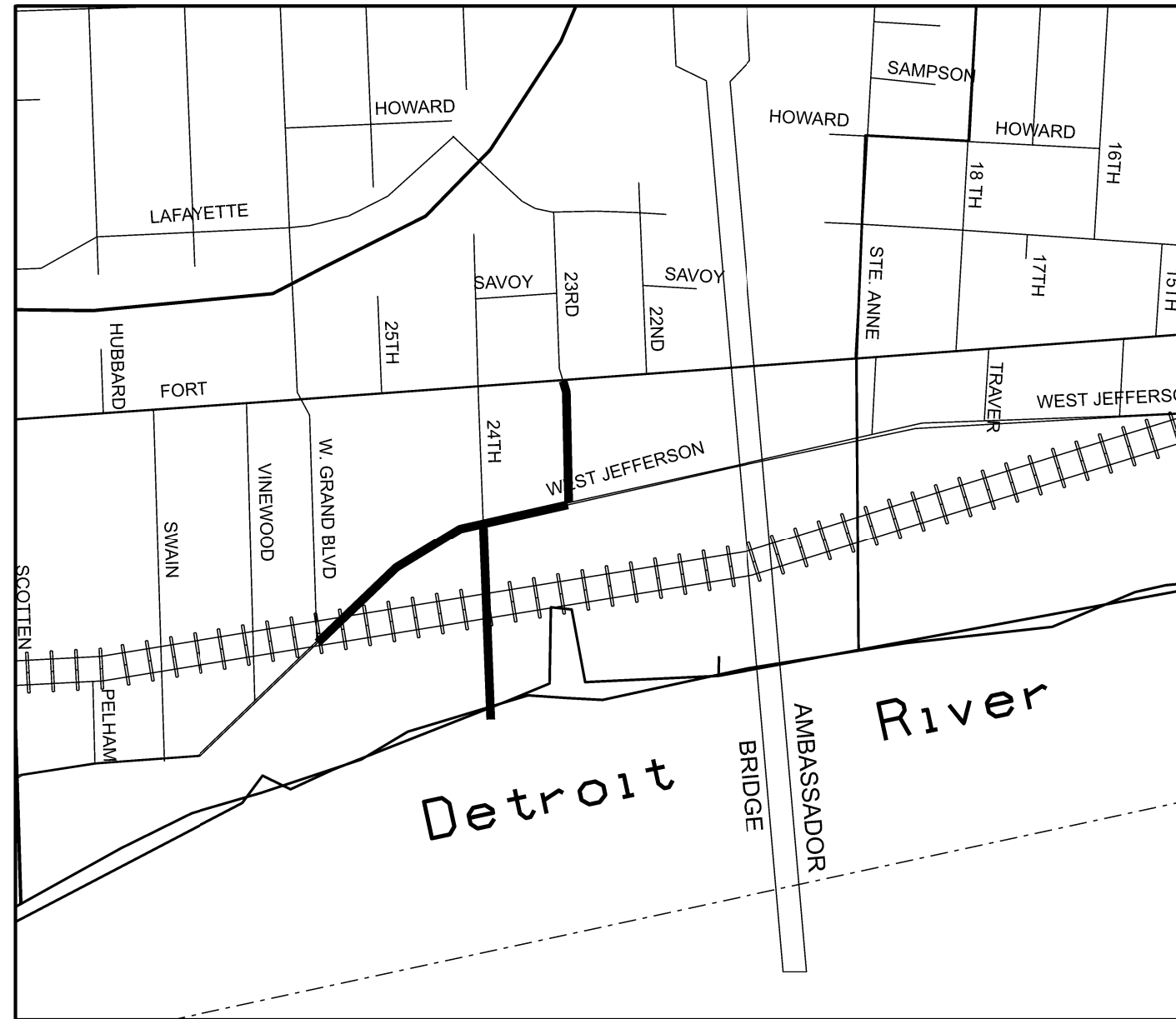
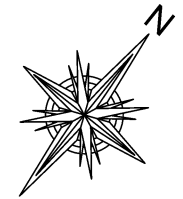


CITY OF DETROIT RECONSTRUCTION 24TH ST. JOB NO. : PW-6978

EXCEPT WHERE OTHERWISE INDICATED ON THESE PLANS, THE PROPOSAL, AND SUPPLEMENTAL SPECIFICATIONS CONTAINED HEREIN, ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION 2012 EDITION.

**FINAL
PLANS**



CONTRACT FOR RECONSTRUCTION OF 24TH ST FROM JEFFERSON TO THE DETROIT RIVER INCLUDING NEW RAILROAD CROSSING



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

APPROVED BY _____ DATE _____
RICHARD DOHERTY
CITY ENGINEER

APPROVED BY _____ DATE _____
STEVEN BANNASCH
ENGINEERING SERVICES
COORDINATOR

PREPARED UNDER THE SUPERVISION OF

ALAN KO
LICENSED PROFESSIONAL ENGINEER DATE _____

CITY OF DETROIT
ORGANIZATION

CITY ENGINEERING DIVISION, D.P.W.
2 WOODWARD AVE. SUITE 601 DETROIT MI 48216
ADDRESS

COVER SHEET

CONTROL SECTION	JOB NUMBER	FEDERAL NUMBERS PROJECT	ITEM	SHEET NO.
----	PW-6978			1 OF 9

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	LEGEND
3	TYPICAL SECTIONS - EXISTING
4	TYPICAL SECTIONS - PROPOSED
5	REMOVAL PLAN STA. 10+00 TO STA. 15+00
6	PLAN AND PROFILE STA. 10+00 TO STA. 15+00
7	REMOVAL PLAN STA. 15+00 TO STA. 20+00
8	PLAN AND PROFILE STA. 15+00 TO STA. 20+00
9	RAIL CROSSING DETAIL

PLANS RECEIVED 04/15/2021
BY BENESCH ON BEHALF OF
CSX - CSX OP# MI0510

DATE: November 30, 2020

DRAWN BY: SARMAD AL TAMEEMI

FILE NAME: PW-6978

5A	SANITARY MANHOLE
57	STORM SEWER MANHOLE
	STORM SEWER CATCH BASIN
(HEADWALL
△	CULVERT END SECTION
⊖	WATER SERVICE CURB STOP BOX
⊗	WATER GATE VALVE AND BOX
Ⓜ	WATER METER
Ⓜ	WATER GATE WELL MANHOLE
Ⓜ	FIRE HYDRANT
Ⓜ	GROUND WATER MONITORING WELL
→	DRAINAGE FLOW ARROW
▽ 0.00	WATER TABLE (PROFILES)
	CHECK DAM (PROFILES)

●	ELECTRICAL, GUY OR TELEPHONE POLE
ⓔ	ELECTRICAL MANHOLE
ⓔ	ELECTRICAL HANDHOLE
ⓔ	ELECTRICAL TRANSFORMER BOX
ⓔ	ELECTRIC & LIGHT POLE
ⓔ	LIGHT MANHOLE
ⓔ	LIGHT HANDHOLE
ⓔ	LIGHT POLE
ⓔ	LIGHT STANDARD
	GENERIC UTILITY MANHOLE
ⓔ	TELEPHONE MANHOLE
ⓔ	TELEPHONE PEDESTAL
ⓔ	GAS LINE, PETROLEUM OR FIBER OPTIC MARKER
ⓔ	GAS VALVE
ⓔ	GAS FILLER PIPE
ⓔ	GAS WELL
ⓔ	OIL WELL
ⓔ	GUY ANCHOR
ⓔ	POWER TOWER

---	ELECTRIC LINE
---	ELECTRIC LINE OVERHEAD
---	ELECTRIC LINE OUT OF SERVICE
---	NATURAL GAS LINE
---	NATURAL GAS LINE OUT OF SERVICE
---	TELEPHONE LINE
---	TELEPHONE LINE OVERHEAD
---	TELEPHONE LINE OUT OF SERVICE
---	CABLE TV LINE
---	CABLE TV LINE OVERHEAD
---	CABLE TV LINE OUT OF SERVICE
---	FIBER OPTICS LINE
---	FIBER OPTICS LINE OUT OF SERVICE
---	WATER MAIN
---	WATER MAIN ABANDON
---	WATER MAIN OUT OF SERVICE

	CONCRETE PAVEMENT BRIDGE APPROACH
	MISCELLANEOUS CONCRETE PAVEMENT
	REMOVING SIDEWALK
	REMOVING PAVEMENT
	COLD-MILLING (HMA/CONCRETE)
	HMA BASE CRUSH & SHAPE OR RUBBLIZE
	POTENTIALLY CONTAMINATED SITE

	SECTION CORNER
	QUARTER CORNER
	QUARTER QUARTER CORNER
	HALF SECTION CORNER
	HALF QUARTER CORNER
	PROPERTY CORNER
	REFERENCE MARKER
	CONTROL POINT
	BENCH MARK
	PRESERVE MONUMENT BOX
	PROTECT MONUMENT CORNERS
	PROPERTY OWNERSHIP ARROW
	CONTIGUOUS PROPERTY SYMBOL
	PARCEL NUMBER BOX

MISCELLANEOUS SYMBOLS	
	MAILBOX
T	SIGN WITH ONE POST
TT	SIGN WITH TWO POSTS
	RIPRAP
☆	CONIFER TREE
☆	DECIDUOUS TREE
⊗	SHRUB
Ⓜ	STUMP
Ⓜ#25	TEST HOLE NUMBER
Ⓜ	SIGN - CANTILEVER MOUNT
Ⓜ	SIGN - TRUSS MOUNT
→	TRAFFIC FLOW ARROW
Ⓜ	EROSION CONTROL ITEM NUMBER (SEE STANDARD PLAN R-96 SERIES)

A	ABANDON
B	BULKHEAD
C	CLEARING
R	REMOVAL
S	SAVE
ADJ	ADJUST
SALV	SALVAGE
ADJ-	ADJUST DRAINAGE STRUCTURE W/COVER
REL-	RELOCATE W/CASE NUMBER
SWR-	SIDEWALK RAMP TYPE
ADJ-B/O	ADJUST BY OTHERS
REL-B/O	RELOCATE BY OTHERS
	HAZARDOUS OR FLAMMABLE MATERIAL
	GAS AND ELECTRICAL LINES LABEL
	CAUTION - CRITICAL UTILITY
	FIBER OPTIC, TELEPHONE LINES, AND WATER MAIN LABEL

ROW AND PROPERTY LIFESTYLES	
---	FREE ACCESS ROW
---	LIMITED ACCESS ROW
---	GOVERNMENT LINE
---	LEGAL PLAT LINES
---	NON-LEGAL PLAT LINES
---	LEGAL PARCEL LINES
---	NON-LEGAL PARCEL LINES
---	CITY LIMITS LINE
---	HEDGE LINE
---	TREE LINE
---	FENCE
---	GUARDRAIL
---	MEDIAN CABLE BARRIER
---	SINGLE FACE CONC BARRIER
---	DOUBLE FACE CONC BARRIER
---	SOUND WALL
---	SLOPE STAKE LINE
---	DRAINAGE COURSE
---	CULVERT/STORM/SANITARY SEWER
---	CULVERT/STORM/SAN SEWER ABANDON
---	CULV/STORM/SAN SEWER OUT OF SERVICE
---	REM CURB OR CURB & GUTTER
---	SWAMP AREA
---	DELINEATED WETLANDS
---	EROSION CONTROL SILT FENCE

SIDEWALK RAMP PATTERNS	
	DETECTABLE WARNING SURFACE
	SIDEWALK RAMP
	SIDEWALK LANDING

TYPICAL SECTION PATTERNS	
	CONCRETE PAVEMENT
	HMA PAVEMENT (ALL)

TRAFFIC SYMBOLS	
	PEDESTRIAN PUSH BUTTON
	PEDESTRIAN PEDESTAL
	PEDESTRIAN SIGNAL
	POLE MOUNTED SIGNAL CONTROLLER
	BASE MOUNTED SIGNAL CONTROLLER
	SIGNAL HANDHOLE
	SIGNAL MANHOLE
	POWER POLE W/PUSH BUTTON
	POWER POLE W/PEDESTRIAN SIGNAL
	PEDESTRIAN POLE W/PUSH BUTTON AND PEDESTRIAN SIGNAL
	STEEL SIGNAL POLE
	STEEL SIGNAL POLE W/PUSH BUTTON
	STEEL SIGNAL POLE W/PEDESTRIAN SIGNAL
	STEEL SIGNAL POLE W/PUSH BUTTON AND PEDESTRIAN SIGNAL
	STRAIN POLE FOR OH LIGHTS
	WOOD POLE
	RAILROAD SWITCH BOX
	FLASHING RAILROAD SIGNAL

SPECIAL LEGEND THIS PROJECT

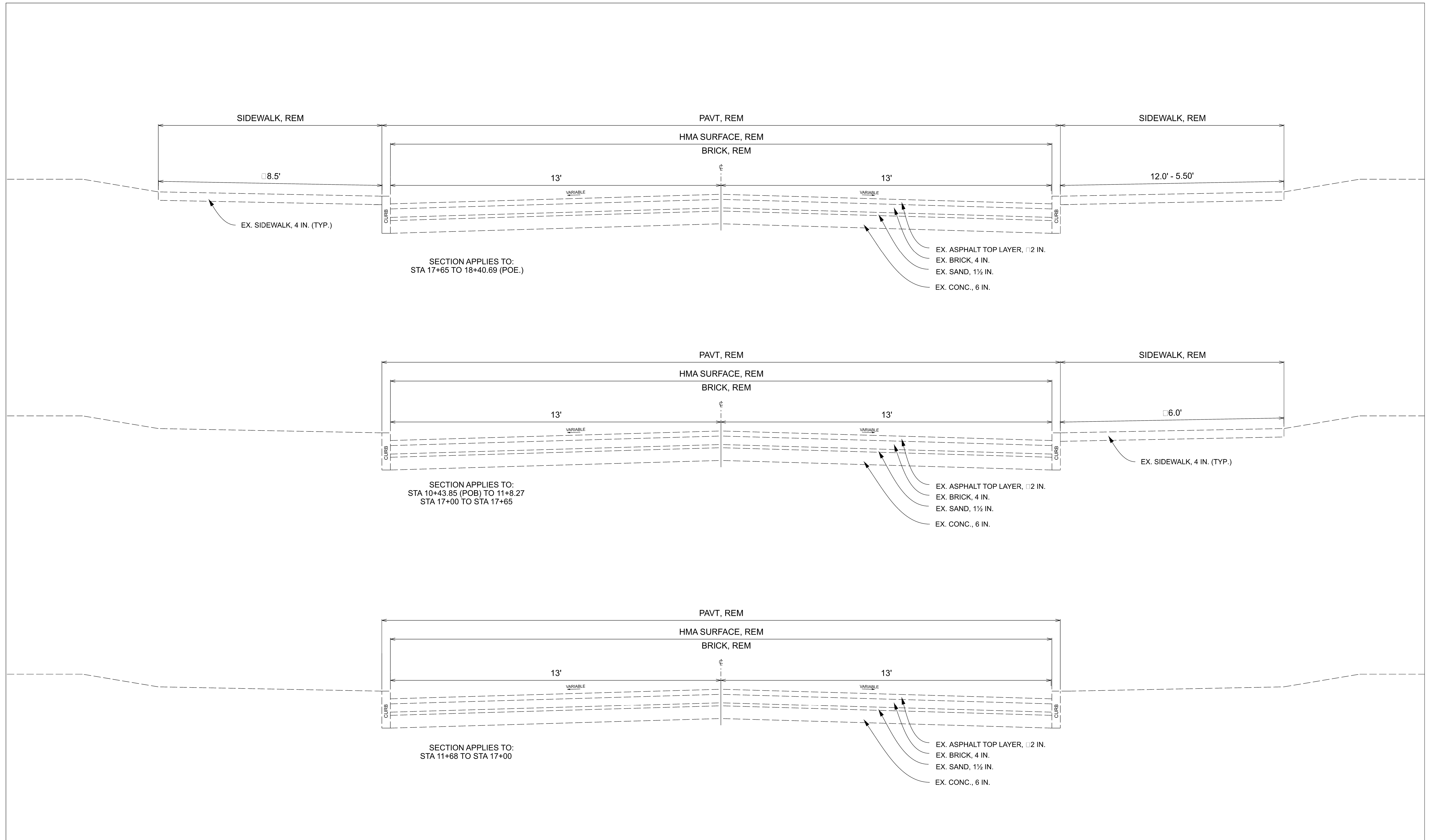
NOTE: PROPOSED LIFESTYLES AND SYMBOLS ARE THE SAME AS EXISTING EXCEPT BOLD

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE: 04/16/21)			
NO.	DATE	AUTH	DESCRIPTION
1	04/14/21	SK	Updating After final Review



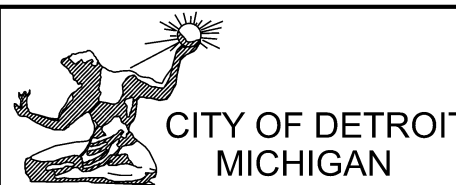
DESIGNED BY :	Alan Ko	APPROVED BY :		CS:	
DRAWN BY :	Sarmad Al Tameemi	DATE:	11 / 30 / 2020	JN:	PW-6978
CHECKED BY :					

DRAWING	SHEET
	2 OF 9



FINAL ROW PLAN REVISIONS (SUBMITTAL DATE: 04/16/21)

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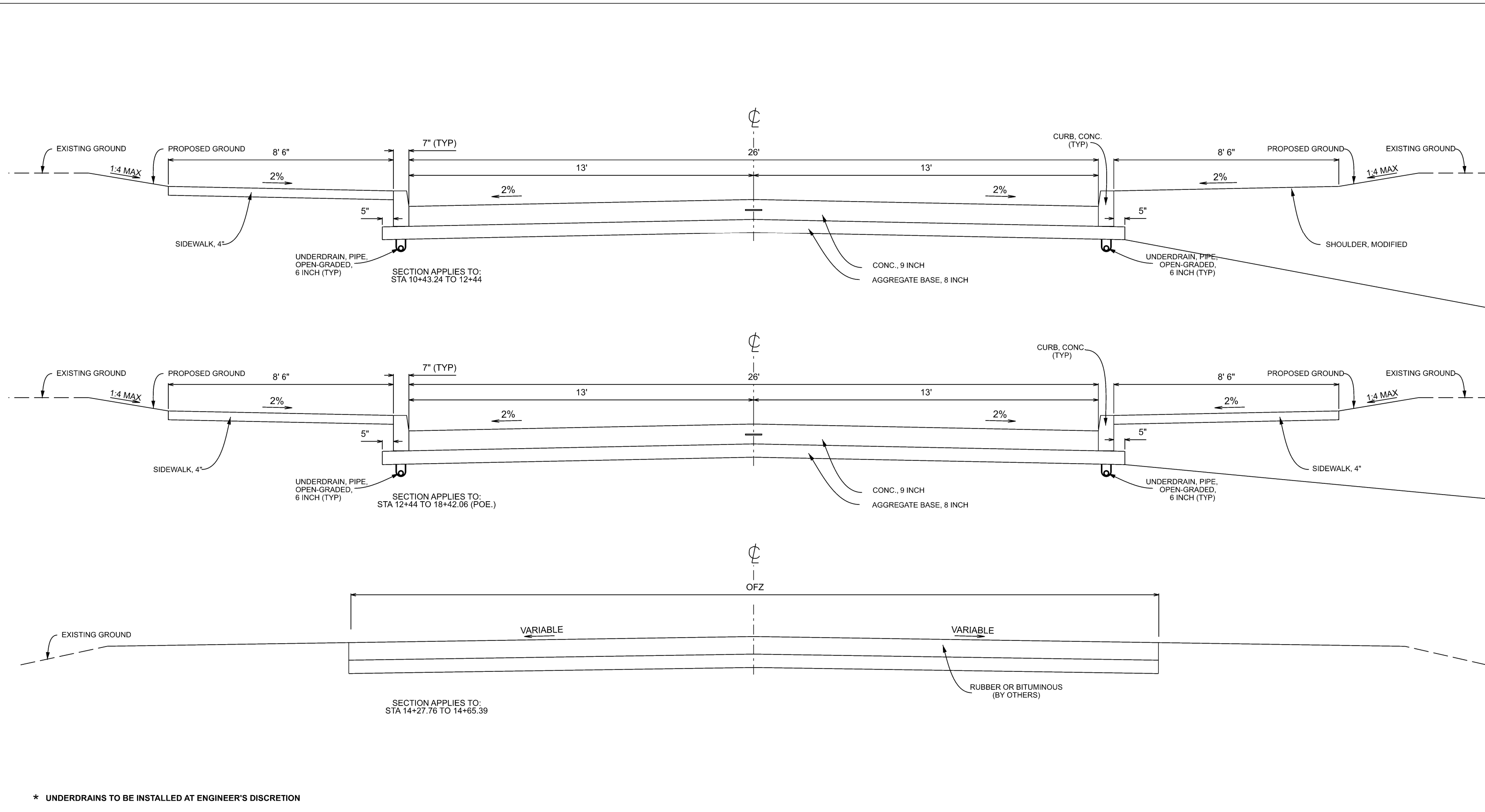
DESIGNED BY : Alan Ko
 DRAWN BY : Sarmad Al Tameemi
 CHECKED BY :

APPROVED BY :
 DATE: 11 / 30 / 2020

CS:
 JN: PW-6978

24TH ST.
 TYPICAL SECTIONS - EXISTING

DRAWING SHEET
 3 OF 9



* UNDERDRAINS TO BE INSTALLED AT ENGINEER'S DISCRETION

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE: 04/16/21)

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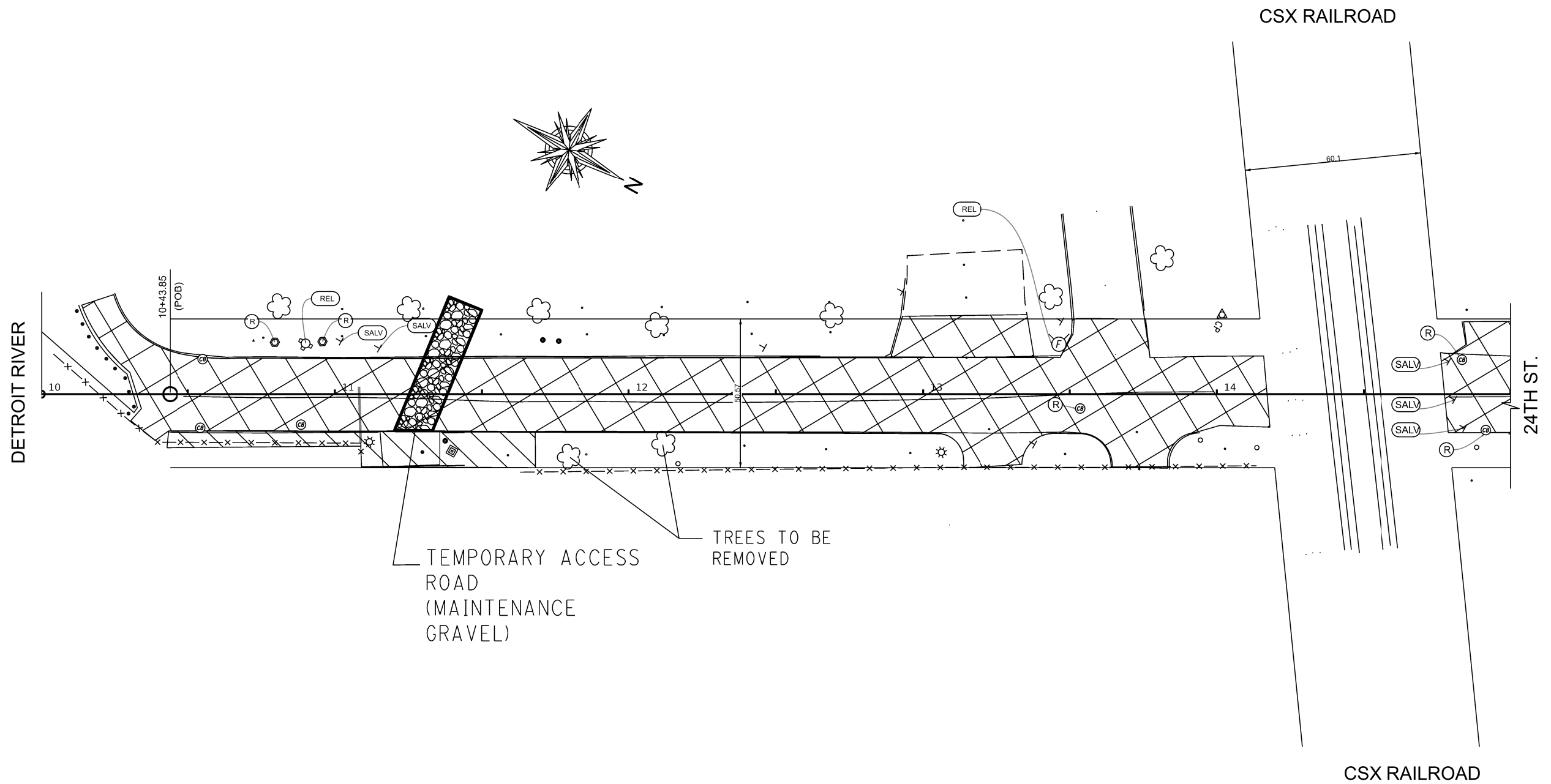
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APPROVED BY :
DATE: 11 / 30 / 2020

CS:
JN: PW-6978

24TH ST.
TYPICAL SECTIONS - PROPOSED

DRAWING SHEET
4 OF 9



FINAL ROW PLAN REVISIONS (SUBMITTAL DATE: 04/16/21)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION
1	04/14/21	SK	Updating After final Review				



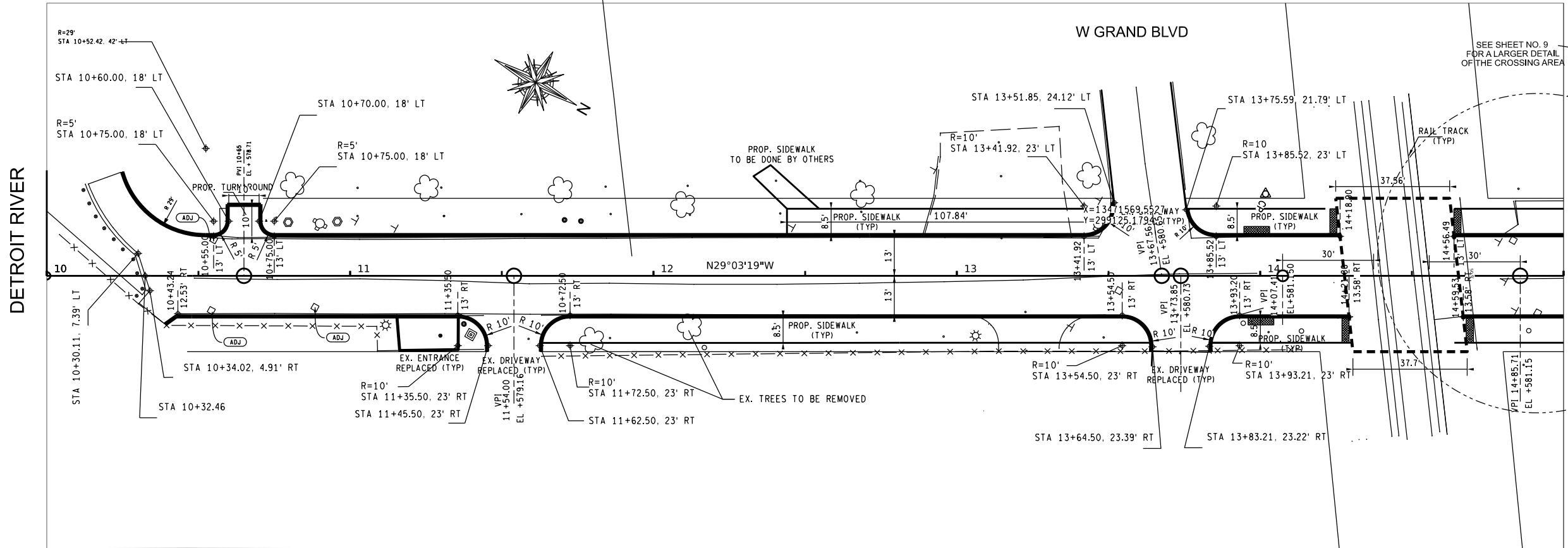
DESIGNED BY : Alan Ko
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APPROVED BY :
 DATE: 11 / 30 / 2020

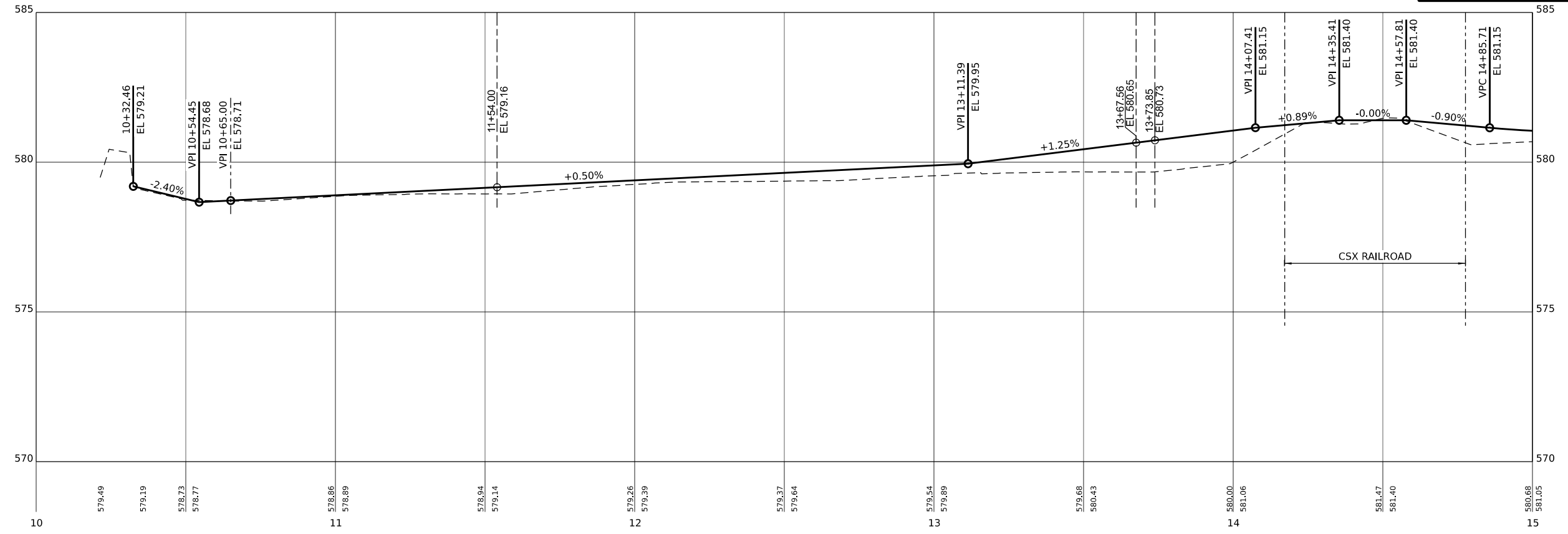
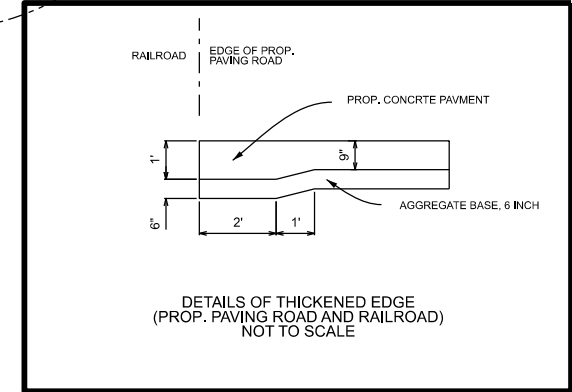
CS:
 JN: PW-6978

24TH ST.
 REMOVAL PLAN
 STA. 10+00 TO STA. 15+00

DRAWING SHEET
 5 OF 9



SEE SHEET NO. 9 FOR A LARGER DETAIL OF THE CROSSING AREA



FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION



SCALE
1"=40'

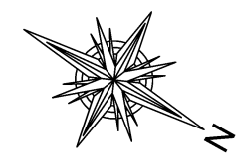
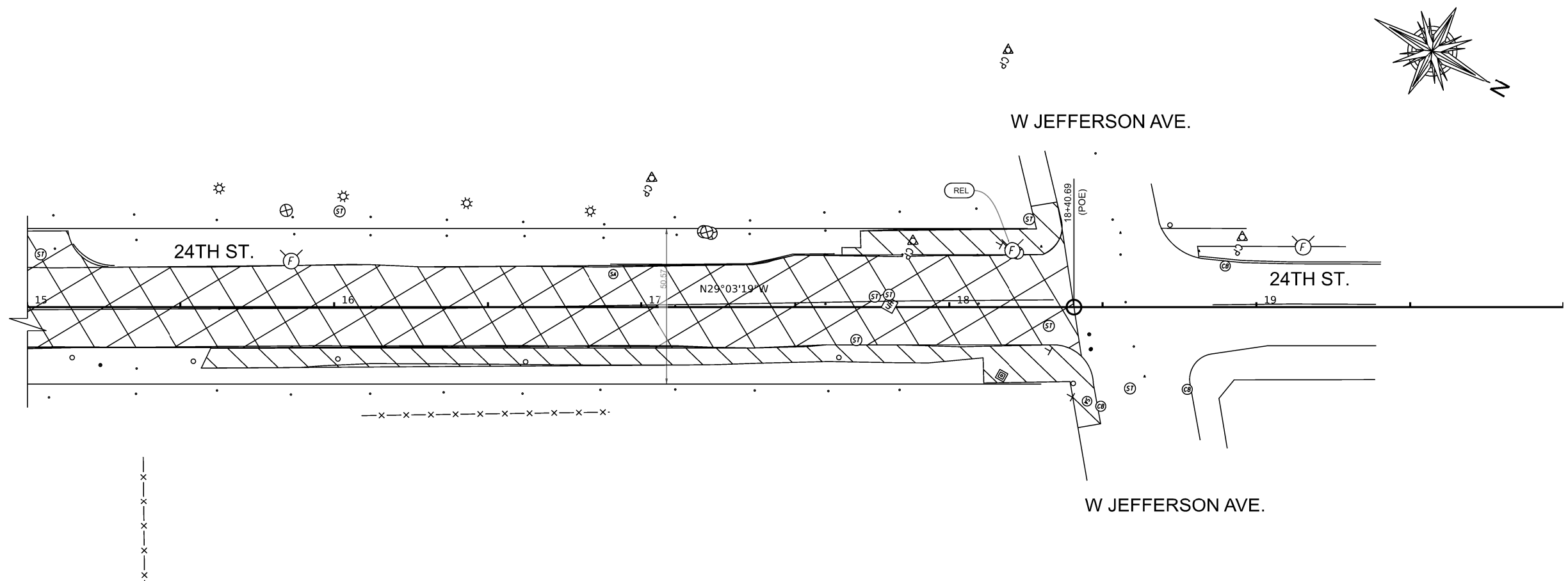
DESIGNED BY: Alan Ko
DRAWN BY: Sarmad Al Tameeml
CHECKED BY:

APPROVED BY:
DATE: 11 / 30 / 2020

CS:
JN: PW-6978

24TH ST.
PLAN AND PROFILE
STA. 10+00 TO STA. 15+00

DRAWING SHEET
6 OF 9



FINAL ROW PLAN REVISIONS (SUBMITTAL DATE: 04/16/21)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION
1	04/14/21	SK	Updating After final Review				



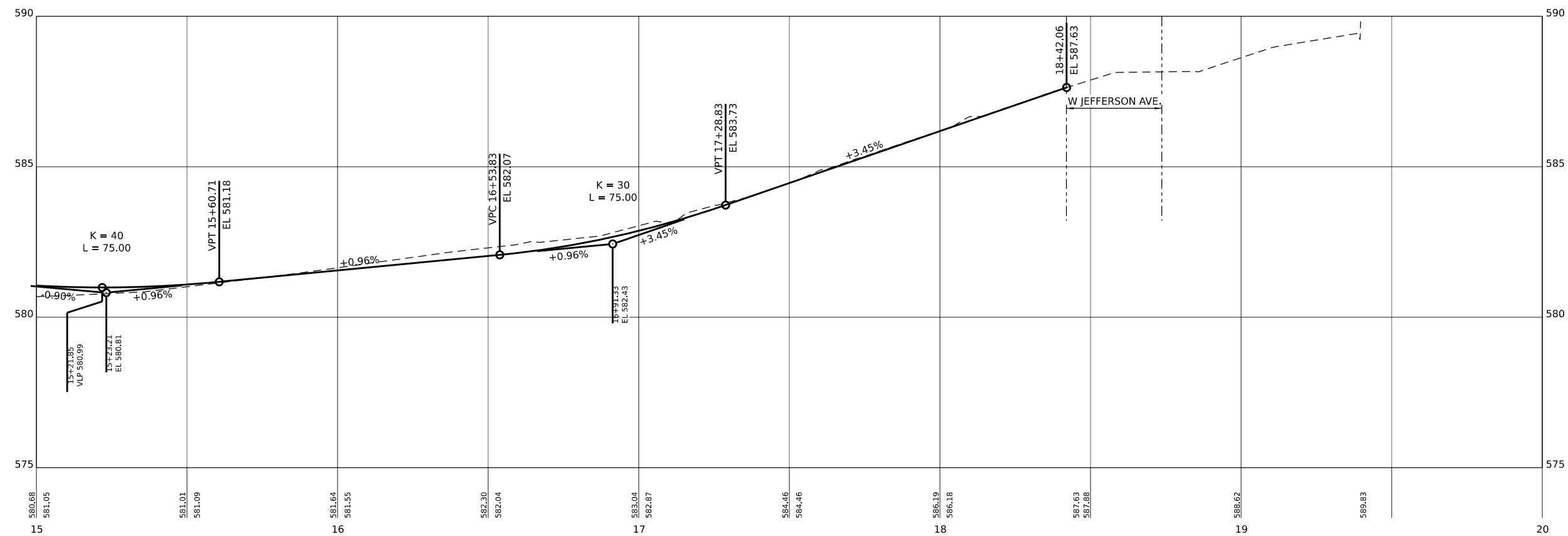
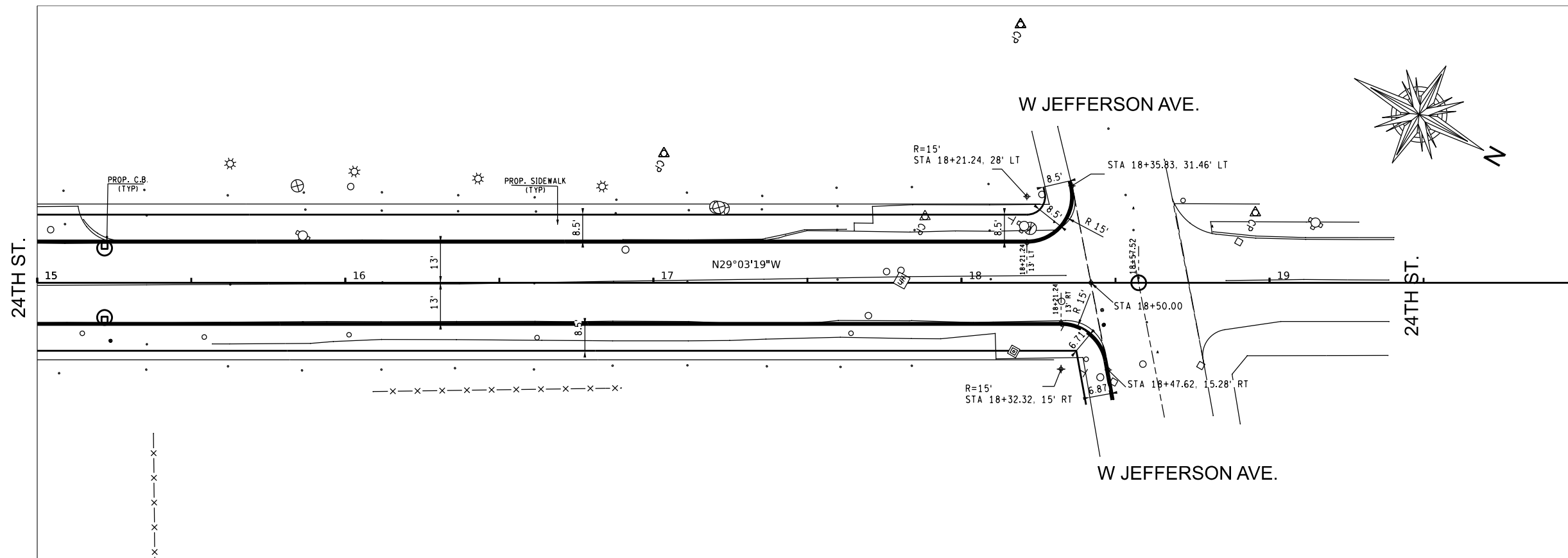
DESIGNED BY : Alan Ko
 DRAWN BY : Sarmad Al Tameemi
 CHECKED BY :

APPROVED BY :
 DATE: 11 / 30 / 2020

CS:
 JN: PW-6978

24TH ST.
 REMOVAL PLAN
 STA. 15+00 TO STA. 20+00

DRAWING SHEET
 7 OF 9



FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

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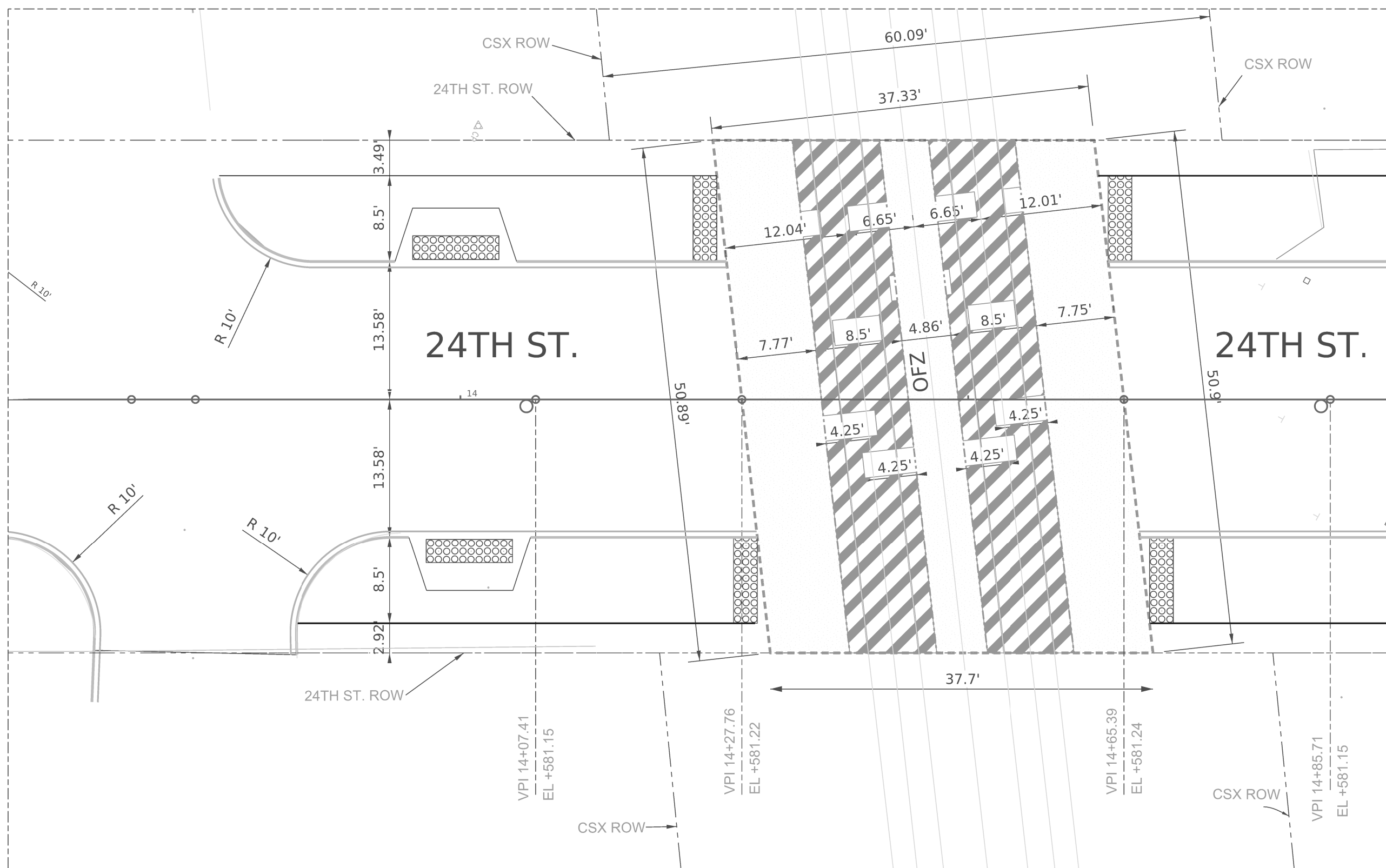
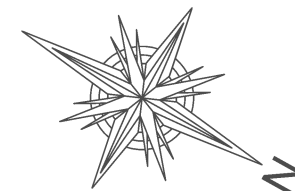
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APPROVED BY:
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CS:
JN: PW-6978

PW-6978
PLAN AND PROFILE
STA. 15+00 TO STA. 20+00

DRAWING SHEET
8 OF 9



LEGEND

-  OFZ OBSTACLE FREE ZONE OFZ LIMITS
-  RUBBER (BY OTHERS)
-  BITUMINOUS

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE: 04/16/21)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION
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NO SCALE

DESIGNED BY: Alan Ko
 DRAWN BY: Sarmad Al Tameemi
 CHECKED BY:

APPROVED BY:
 DATE: 11 / 30 / 2020

CS:
 JN: PW-6978

24TH ST.
PLAN
 RAIL CROSSING DETAIL

DRAWING SHEET
 9 OF 9