

WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

GENESEE STREET

MILL STREET TO OAKWOOD DRIVE

C.T.H. "C"

WAUKESHA COUNTY

Pre-Final
August 6, 2015

STATE PROJECT NUMBER
14-3775(11)

ORDER OF SHEETS

Section No. 1	Title
Section No. 2	Typical Sections and Details
Section No. 3	Estimate of Quantities
Section No. 3	Miscellaneous Quantities
Section No. 4	Right of Way Plat
Section No. 5	Plan and Profile
Section No. 6	Standard Detail Drawings
Section No. 7	Sign Plates
Section No. 8	Structure Plans
Section No. 9	Computer Earthwork Data
Section No. 9	Cross Sections

TOTAL SHEETS = ---

PROJECT ID: 14-3775(11)

COUNTY: WAUKESHA



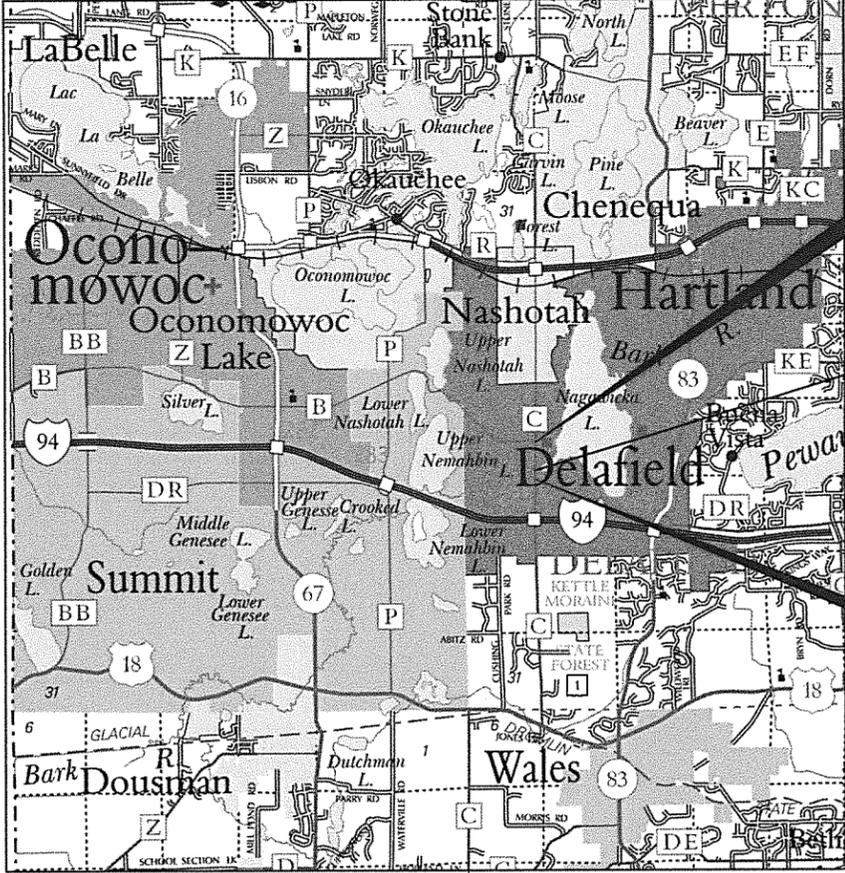
DESIGN DESIGNATION

A.A.D.T. (2016)	=	8800
A.A.D.T. (2036)	=	11,800
D.H.V.	=	---
D.O.	=	50--50
T.	=	5.8%
DESIGN SPEED	=	30 MPH
ESALS	=	883,300

CONVENTIONAL SYMBOLS

PLAN	
CORPORATE LIMITS	
PROPERTY LINE	
LOT LINE	
LIMITED HIGHWAY EASEMENT	
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	
MARSH AREA	
WOODED OR SHRUB AREA	

PROFILE	
GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	



**END PROJECT
STA. 154+21.53**

B-67-0358

**BEGIN PROJECT
STA. 130+54.63**
X = 637,126.76
Y = 179,682.92

LAYOUT
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.454 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM NAD83 (2011)
ALL ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NGVD-88.

ACCEPTED FOR WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS	
DATE _____	DIRECTOR _____
DATE _____	ENGINEERING SERVICES MANAGER _____
APPROVED FOR THE CITY OF DELAFIELD	
DATE _____	DIRECTOR OF PUBLIC WORKS _____
ORIGINAL PLANS PREPARED BY:	
DATE _____	PROFESSIONAL ENGINEER _____
PREPARED BY	
Surveyor	ONE SOURCE CONSULTING
Designer	ONE SOURCE CONSULTING

E

SECTION 2 SHEET ORDER

- GENERAL NOTES & HMA LIFT TABLE
- PROJECT OVERVIEW
- TYPICAL SECTIONS
- CONSTRUCTION DETAILS
- PLAN DETAILS
- RAMP DETAILS
- STORM SEWER PLAN
- EROSION CONTROL
- PERMANENT SIGNING
- PAVEMENT MARKING
- STREET LIGHTING PLAN
- FRESHWATER SUPPLY RELAY
- TRAFFIC CONTROL STAGING
- TEMPORARY SIGNAL PLAN
- ALTERNATE ROUTE PLAN
- ALIGNMENT LAYOUT

GENERAL NOTES

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS, AS SHOWN ON THE PLANS, ARE APPROXIMATE. THERE MAY BE OTHER UTILITIES AND UTILITY INSTALLATIONS WITHIN THE PROJECT LIMITS THAT ARE NOT SHOWN.

THE CRUSHED AGGREGATE FOR SHOULDERS ADJACENT TO THE HMA PAVEMENT SHALL NOT BE PLACED UNTIL AFTER THE SURFACE LAYER OF THE HMA PAVEMENT HAS BEEN LAID.

EROSION CONTROL MEASURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS. THE EXACT LOCATION WILL BE DETERMINED BY THE ENGINEER OR BASED ON THE EROSION CONTROL IMPLEMENTATION PLAN.

INSTALL EROSION CONTROL MEASURES PRIOR TO STARTING WORK IN IMPACTED AREAS.

CURVE DATA IS BASED ON THE ARC DEFINITION, OR R=5729.58' FOR ONE DEGREE CURVE.

CURB AND GUTTER GRADES ARE SHOWN AT THE FLANGE UNLESS NOTED OTHERWISE. STATION AND OFFSET AT CURB AND GUTTER ARE TO THE FACE OF CURB.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN ARE APPROXIMATE AND SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

ALL DISTURBED AREAS EXCEPT THE AREAS BETWEEN THE SUBGRADE SHOULDER POINTS SHALL BE FINISHED WITH TOPSOIL OR SALVAGED TOPSOIL, FERTILIZED, SEEDED, AND MULCHED UNLESS NOTED OTHERWISE.

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN WITH THE ENGINEER.

CURB AND GUTTER REMOVAL AND REPLACEMENT SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD, PLAN SHEETS INDICATE APPROXIMATE LOCATIONS.

RESTORATION OF EXPOSED SLOPES AND DITCHES SHALL TAKE PLACE NOT MORE THAN 7 CALENDAR DAYS AFTER GRADING IN COMPLETE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

HMA PAVEMENT

NOMINAL THICKNESS REQUIREMENTS (INCHES)
AGGREGATE GRADATION NOMINAL SIZE (mm)

ROADWAY	HMA PAVEMENT	TOTAL THICKNESS	PERFORMANCE GRADE	UPPER LAYER	LOWER LAYER
GENESEE STREET	C-1	6.0"	PG 58-28	2.00" 9.5mm	4.00" 19.0mm
SIDE ROADS	C-1	5.0"	PG 58-28	1.50" 9.5mm	3.50" 19.0mm

STANDARD DETAIL DRAWINGS

- 8A9-1 CATCH BASINS 2x3-FT, & 2.5X3-FT
- 8B9-1 MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, & 8-FT DIAMETER
- 8C5-7 INLETS 2X2-FT, 2X2.5-FT, 2X3-FT, & 2.5X3-FT
- 8A5-18b INLET COVER TYPE B, B-A, C, MS, MS-A & WM
- 8D1-17 CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES
- 8D5-14b CURB RAMPS TYPES 2 AND 3
- 8D5-14e CURB RAMPS TYPE 5, 6, 7A & 8
- 8E8-3 TYPICAL INSTALLATIONS OF EROSION BALES/TEMPORARY DITCH CHECKS
- 8E9-6 SILT FENCE
- 8E10-2 INLET PROTECTION TYPE A, B, C AND D
- 8E11-2 TURBIDITY BARRIER
- 8F1-11 APRON ENDWALLS FOR CULVERT PIPE
- 14A2-1 TREE PLANTING DETAIL
- 15A3-2a&b FLEXIBLE MARKER POST FOR CULVERT END
- 15C3-1 BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
- 15C5-1 TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
- 15C8-15a PAVEMENT MARKING (MAINLINE)
- 15C8-15b PAVEMENT MARKING (INTERSECTIONS)
- 15D30-1 TRAFFIC CONTROL SIDEWALK CLOSURE
- 16A1-6 LANDMARK REFERENCE MONUMENTS AND COVERS

UTILITIES WITHIN THE PROJECT LIMITS

CENTURY LINK
 MARK MURN
 mark.murn@centurylink.com
 224 INDUSTRIAL DRIVE
 NORTH PRAIRIE, WI 53153
 (262) 392-5210

MIDWEST FIBER NETWORKS
 JOEL BOJARSKI
 jbojarski@midwestfibernetworks.com
 3701 W. BURNHAM STREET, SUITE C
 MILWAUKEE, WI 53215
 (414) 672-5612

WE-ENERGIES
 SEND ALL CORRESPONDANCE TO:
 LATROY BLUMFIELD
 333 W. EVERETT ST., A299
 MILWAUKEE, WI 53203
 (414) 221-5617

CITY OF DELAFIELD
 PUBLIC WORKS DIRECTOR
 TOM HAFNER
 111 MAIN STREET
 DELAFIELD, WI 53018
 (920) 646-6225

WE-ENERGIES (ELECTRIC)
 CONSTRUCTION FIELD CONTACT:
 BRYAN STOEHR
 bryan.stoehr@we-energies.com
 500 S. 116TH STREET
 WEST ALLIS, WI 53214
 (414) 944-5516

SANITARY SEWER
 DELAFIELD-HARTLAND
 WATER POLLUTION CONTROL
 416 BUTLER DRIVE
 DELAFIELD, WI 53018
 ATTN: SCOTT LUCZAK
 (262) 646-4364
 sldehart@centurytel.net

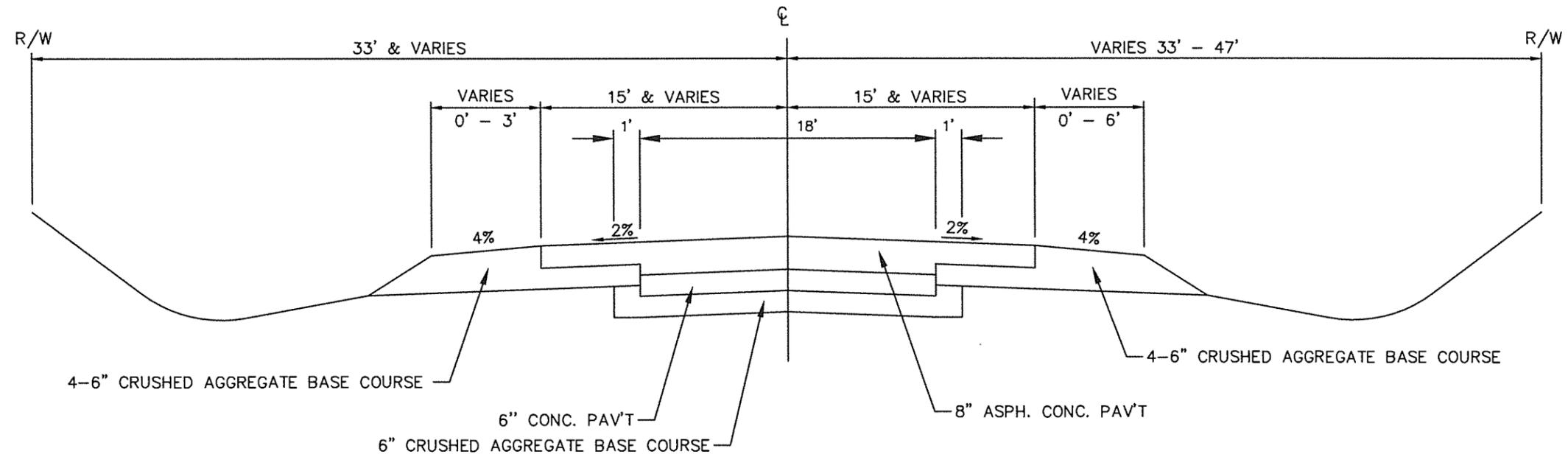
WE-ENERGIES (GAS)
 CONSTRUCTION FIELD CONTACT:
 DANIELLE FINK
 Danielle.Fink@we-energies.com
 500 S. 116TH STREET
 WEST ALLIS, WI 53214
 (414) 944-5627

TIME WARNER CABLE
 STEVE STORM
 UTILITY COORDINATION SUPERVISOR
 steve.storm@twcable.com
 1320 N. DR. MARTIN LUTHER KING JR. DR.
 MILWAUKEE, WI 53212
 (414) 908-4785

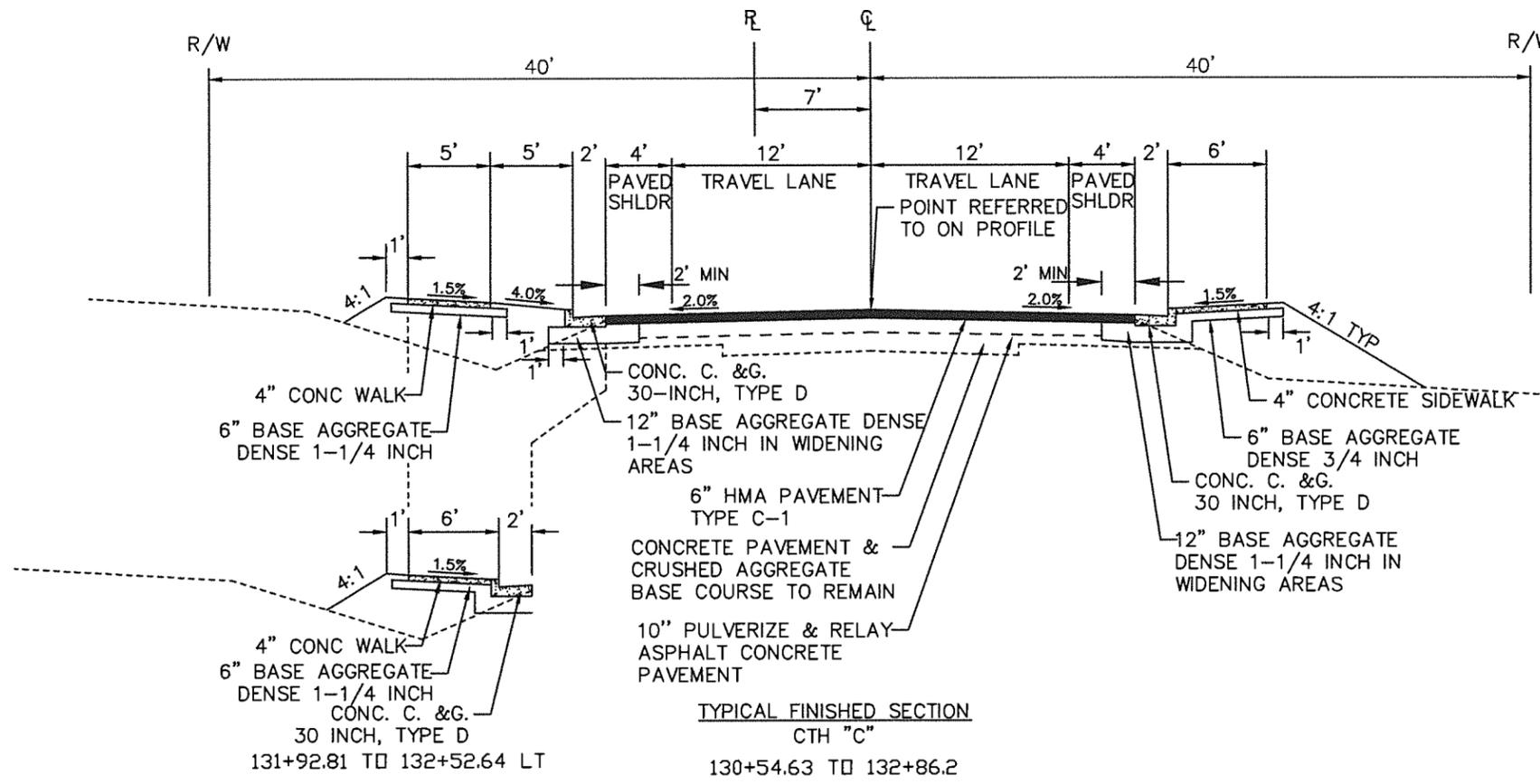
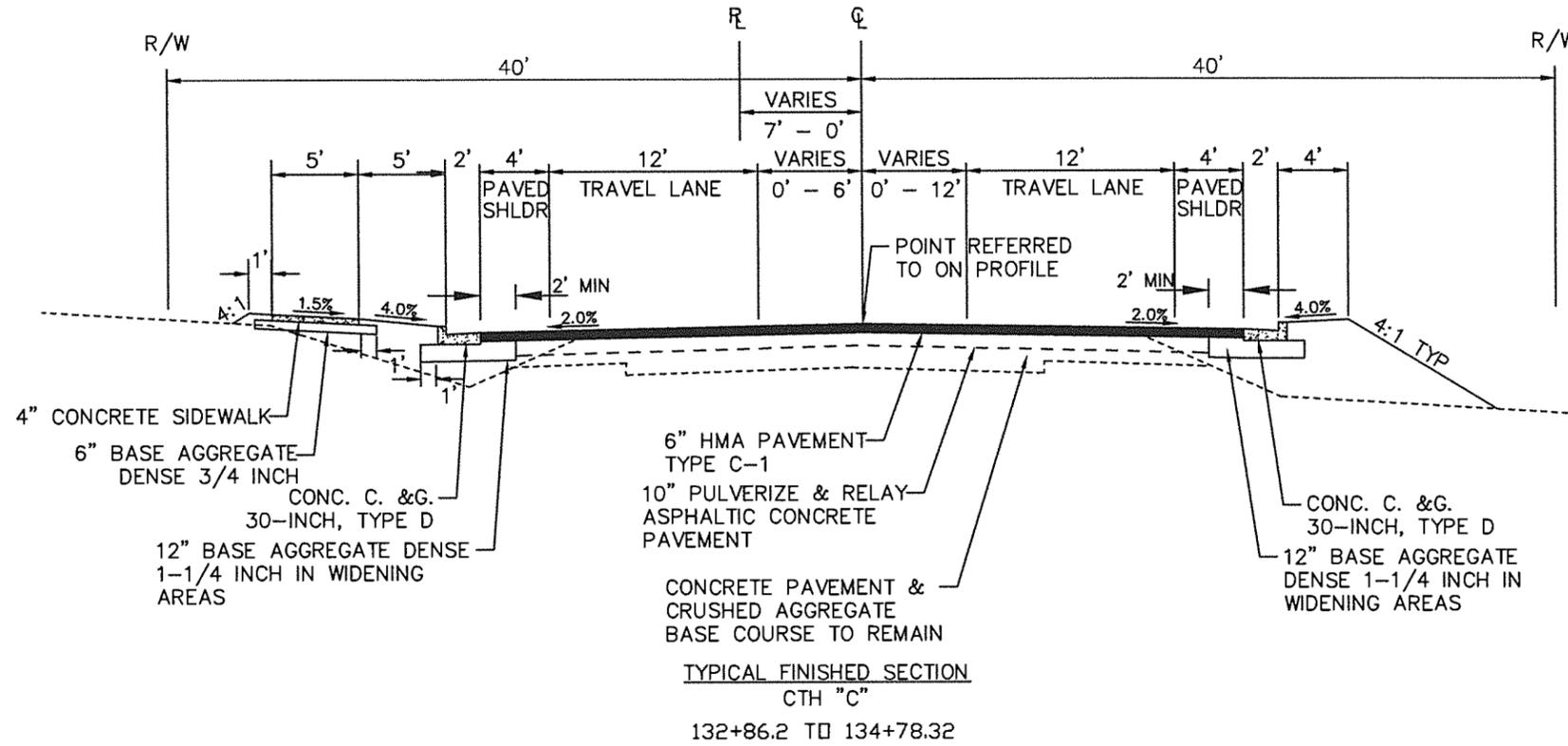
OTHER AGENCIES

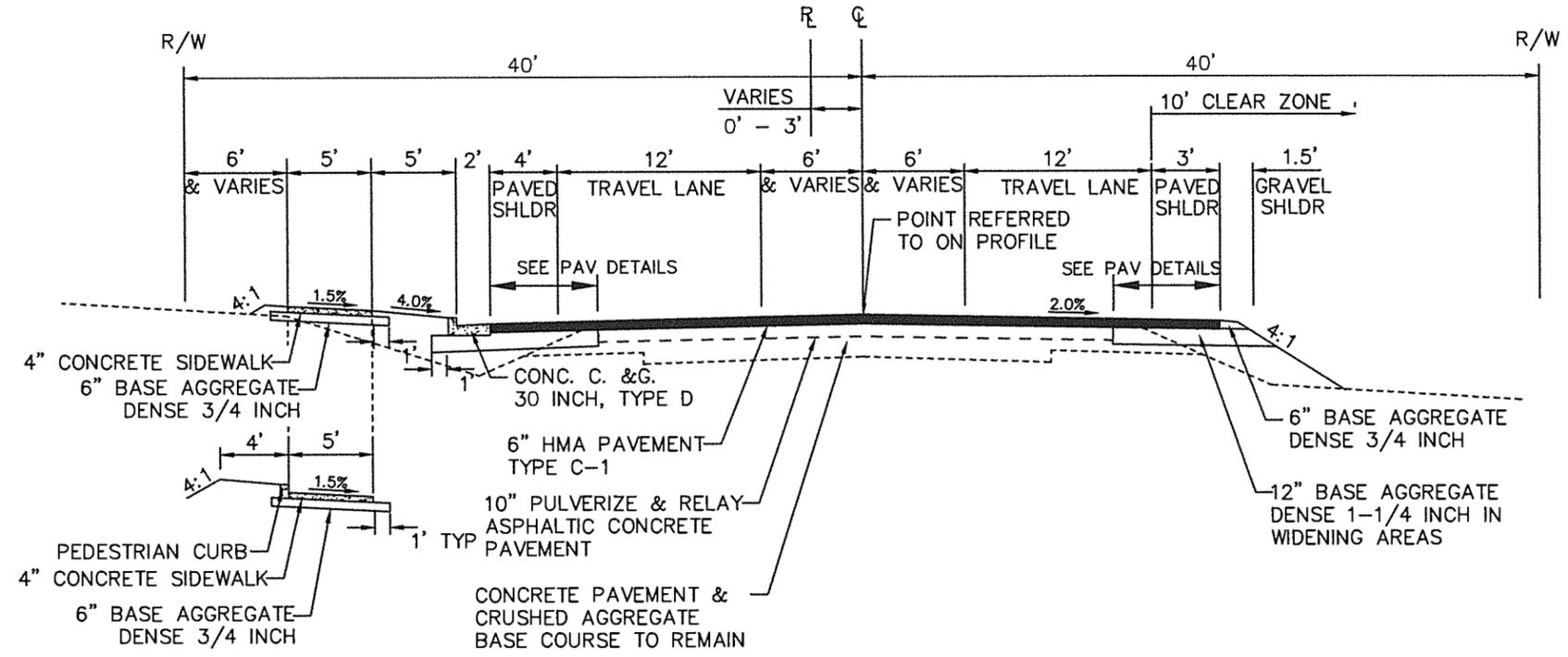
WAUKESHA COUNTY PARKS & LAND USE
 MR. LEIF HAUGE ,PE
 lhauge@waukeshacounty.gov
 1320 PEWAUKEE ROAD, RM 260
 WAUKESHA, WI 53188
 (262) 896-8304





TYPICAL EXISTING SECTION
 GENESEE STREET (C.T.H. "C")
 STA. 130+54.26 TO STA. 154+50.00

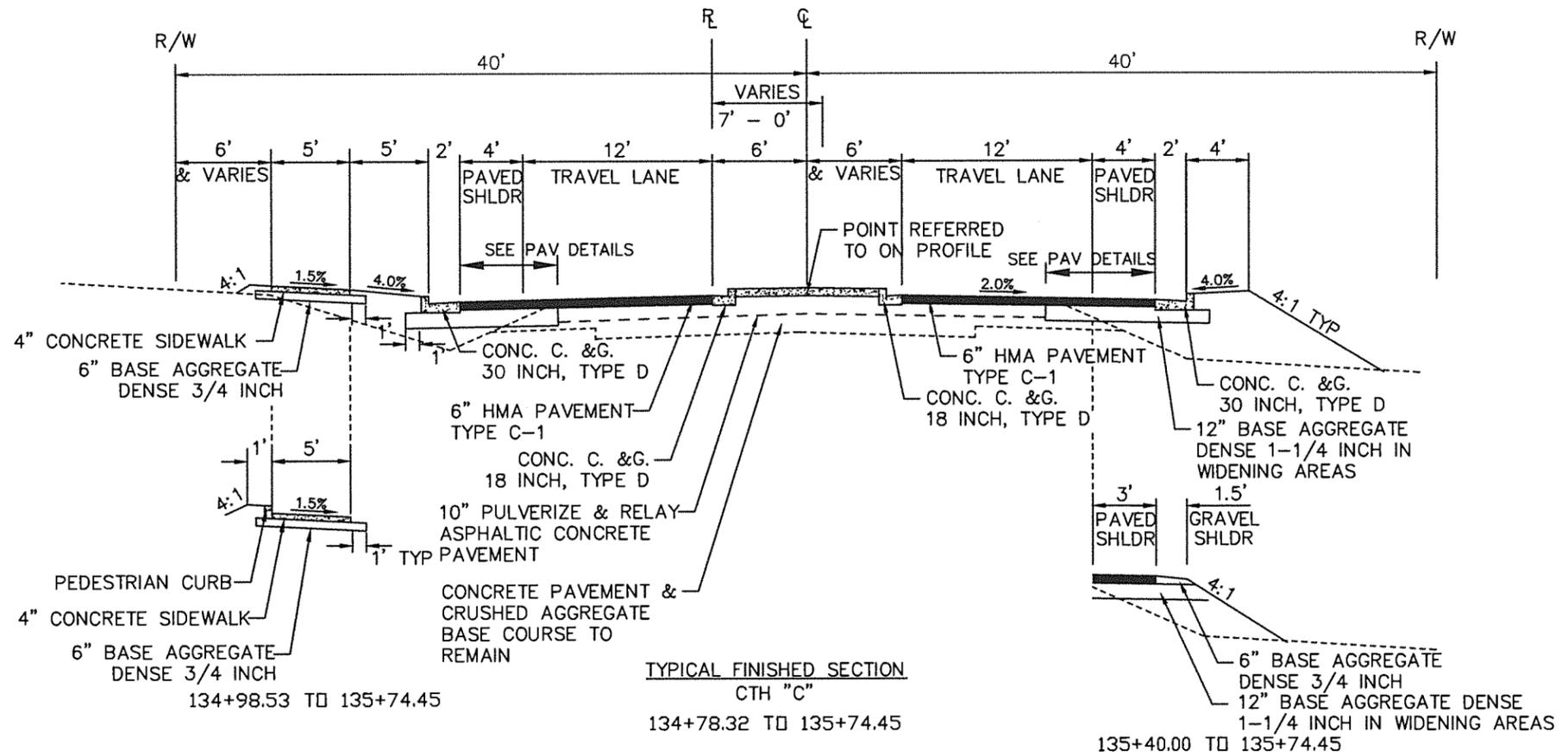




135+74.45 TO 137+18.98

TYPICAL FINISHED SECTION CTH "C"

135+74.45 TO 137+56.25

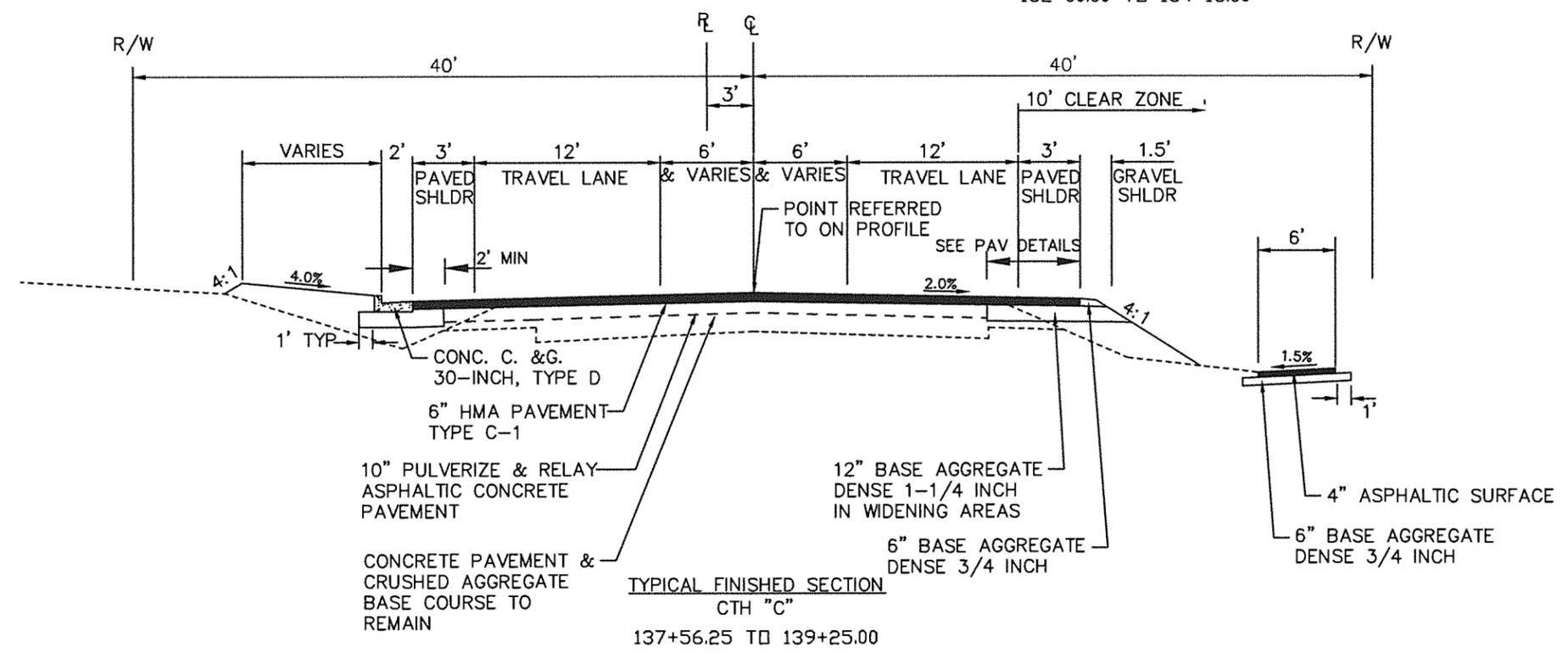
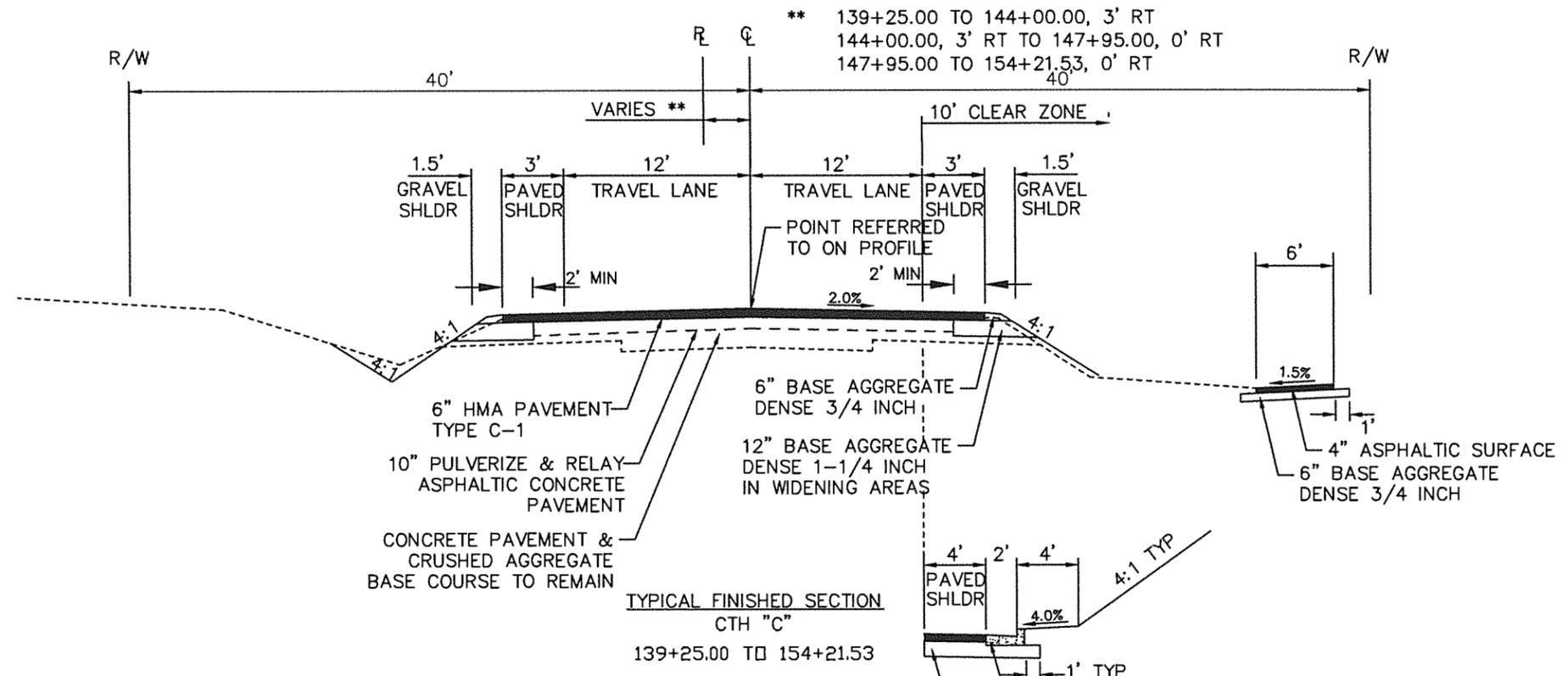


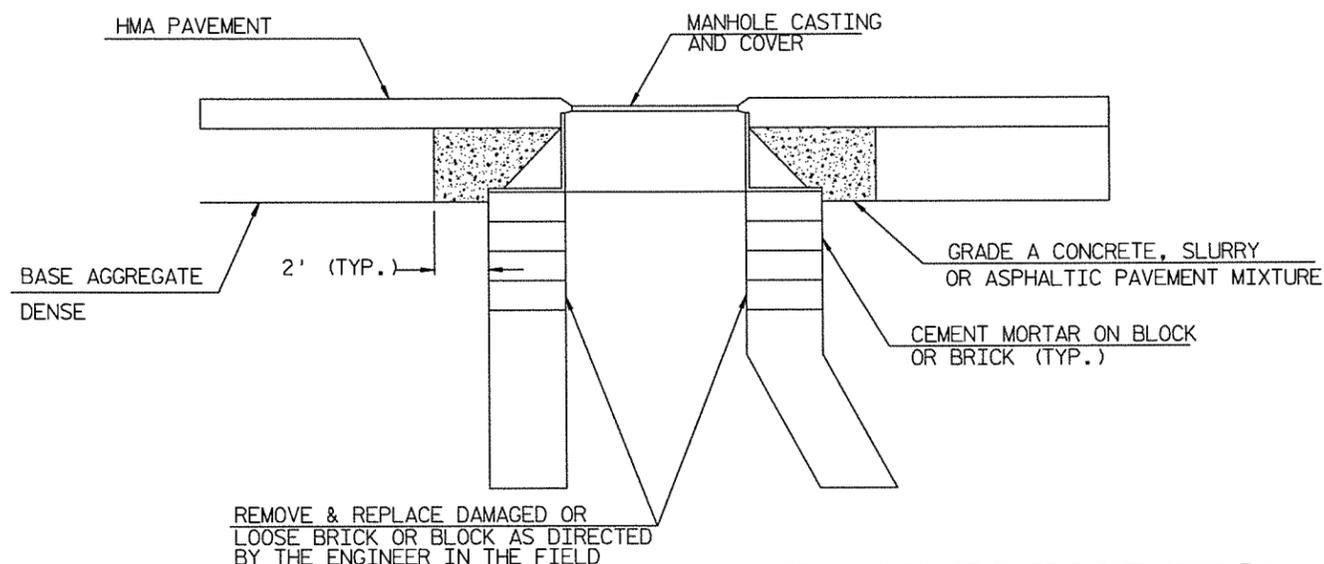
134+98.53 TO 135+74.45

TYPICAL FINISHED SECTION CTH "C"

134+78.32 TO 135+74.45

135+40.00 TO 135+74.45



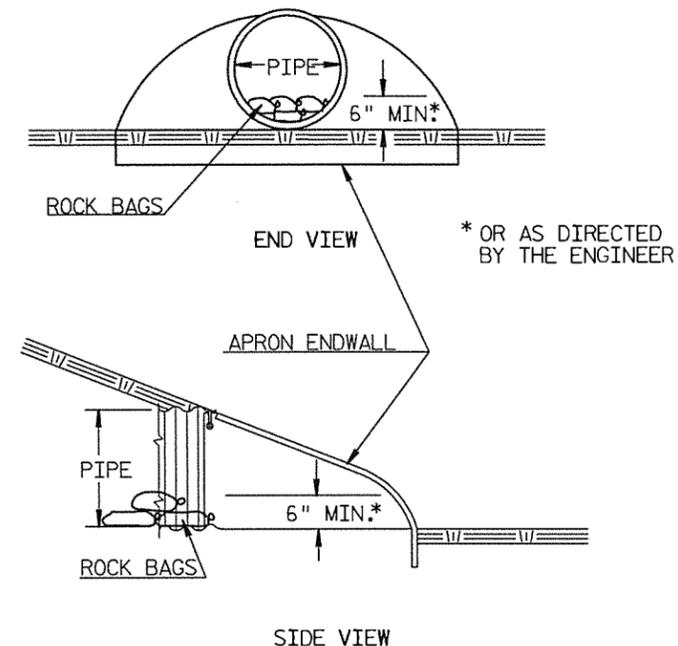


REMOVE & REPLACE DAMAGED OR LOOSE BRICK OR BLOCK AS DIRECTED BY THE ENGINEER IN THE FIELD

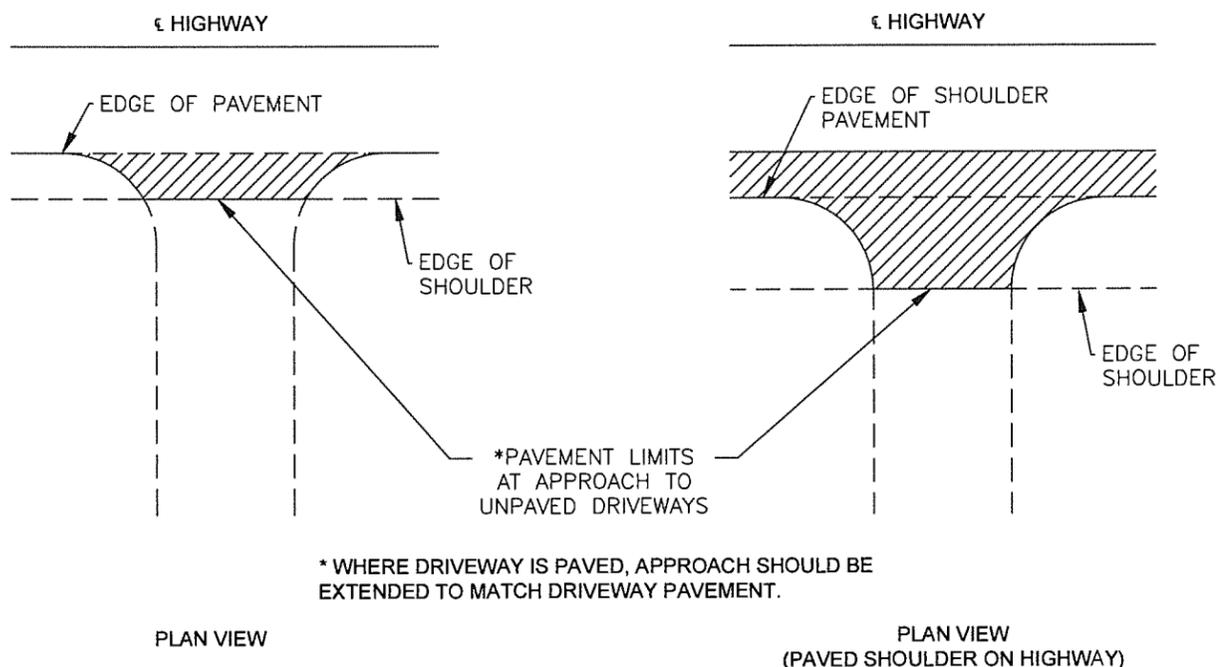
NOTE: MANHOLES ARE TO BE RAISED AFTER THE LOWER ASPHALTIC LAYERS ARE PLACED AND BEFORE THE FINISHED SURFACE LAYER. DISTURBED ASPHALTIC PAVEMENT SHALL BE REPLACED WITH GRADE A CONCRETE, SLURRY OR ASPHALTIC PAVEMENT MIXTURE SHALL BE INCIDENTAL TO BID ITEM OF ADJUSTING MANHOLE COVERS.

NOTE: 12 INCHES OR LESS OF ADJUSTMENT SHALL BE PAID FOR AS "ADJUSTING MANHOLE COVERS". GREATER THAN 12 INCHES OF ADJUSTMENT SHALL BE PAID FOR AS "RECONSTRUCTING MANHOLE".

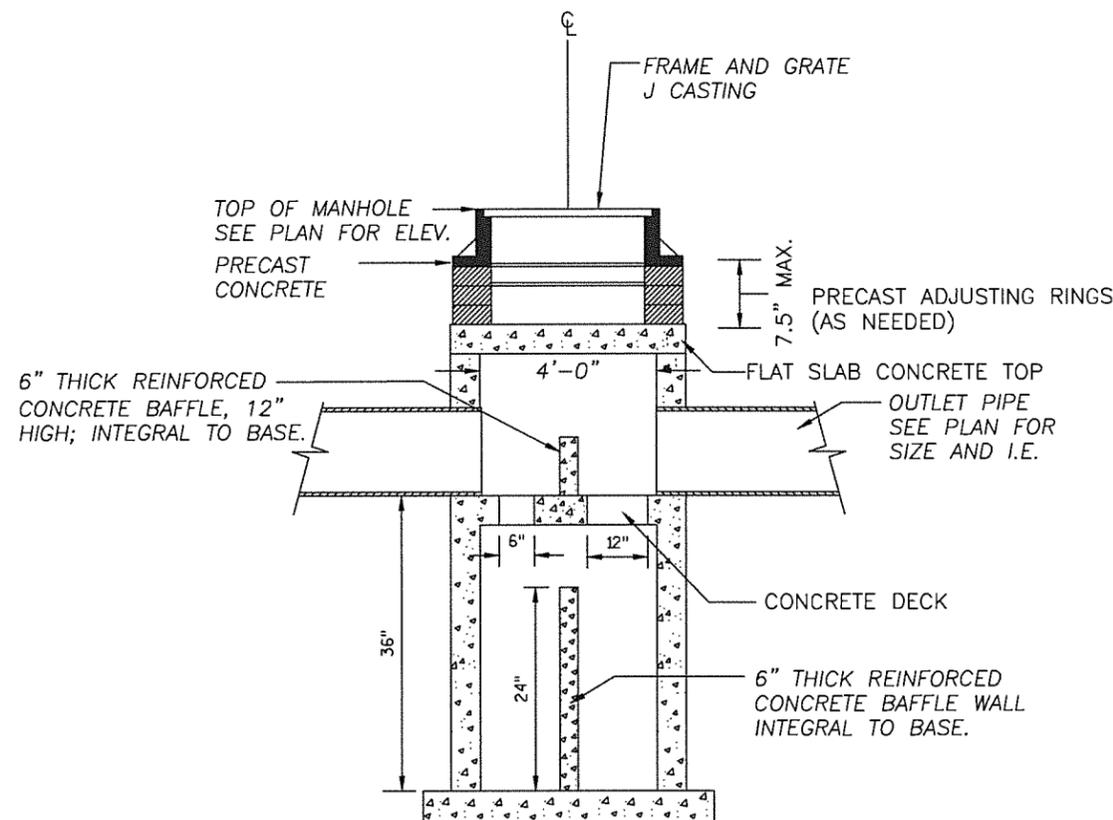
ADJUSTING MANHOLE COVERS



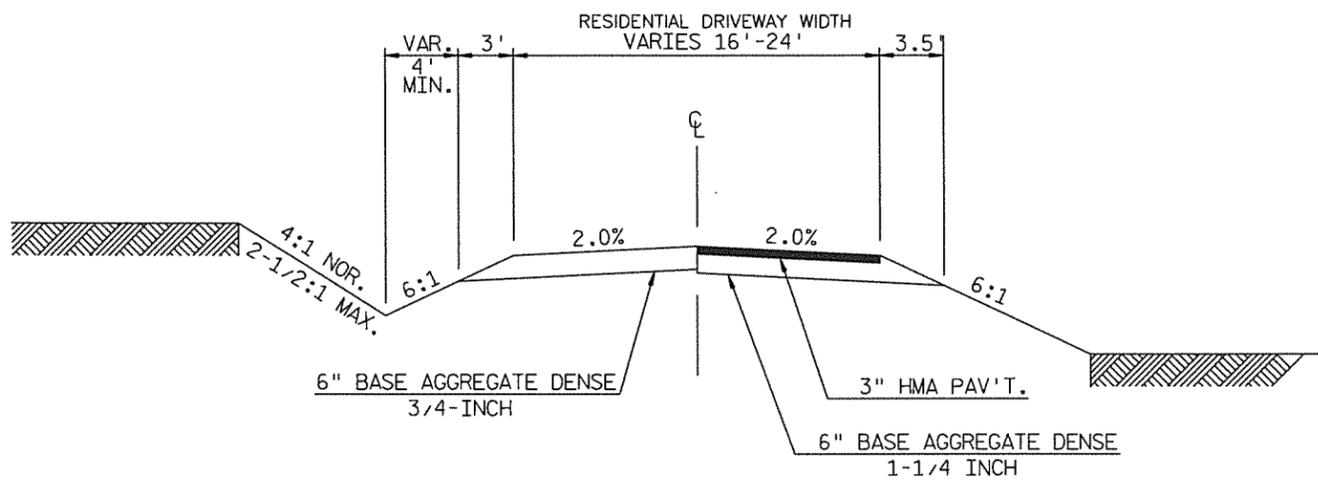
CULVERT PIPE CHECK



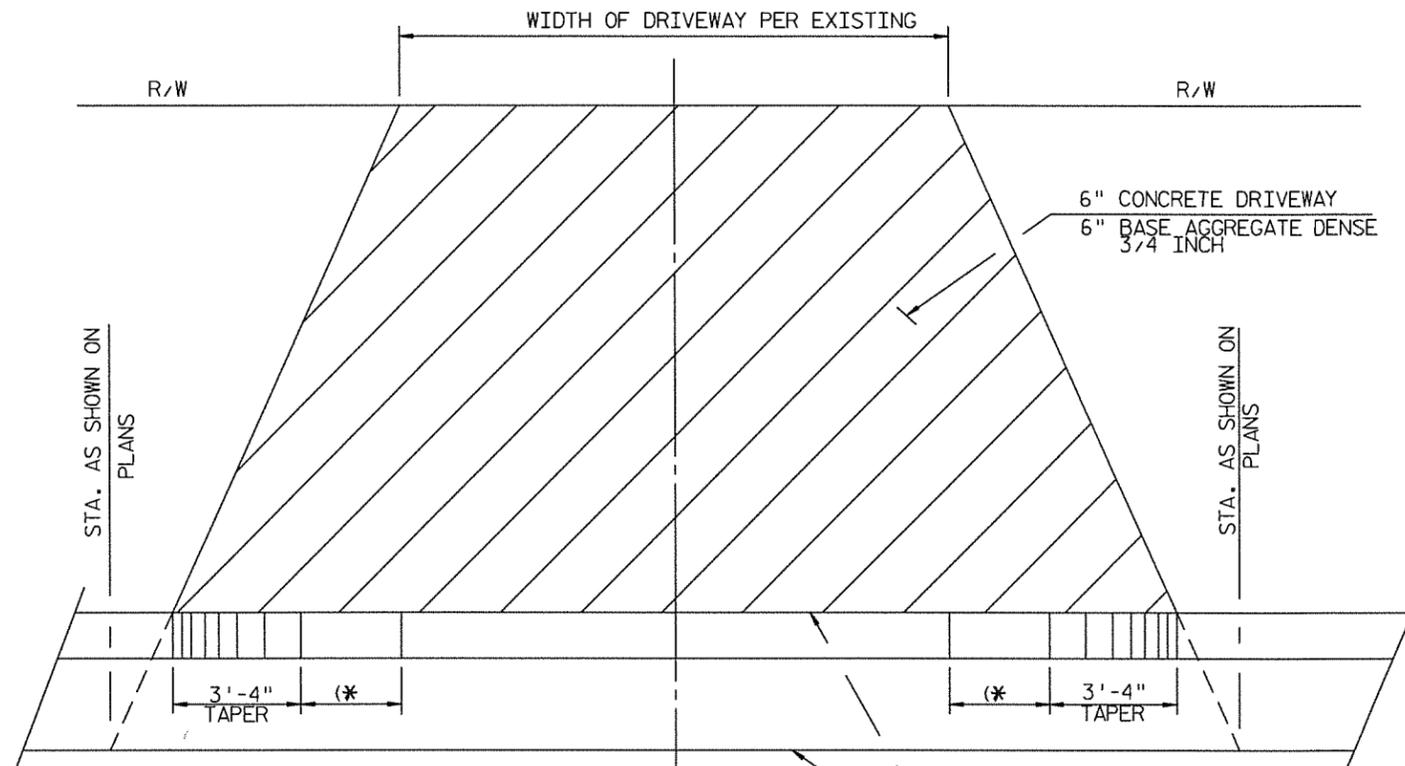
TYPICAL PAVING LIMITS FOR DRIVEWAYS



SEDIMENT CHAMBER MANHOLE TYPE MM

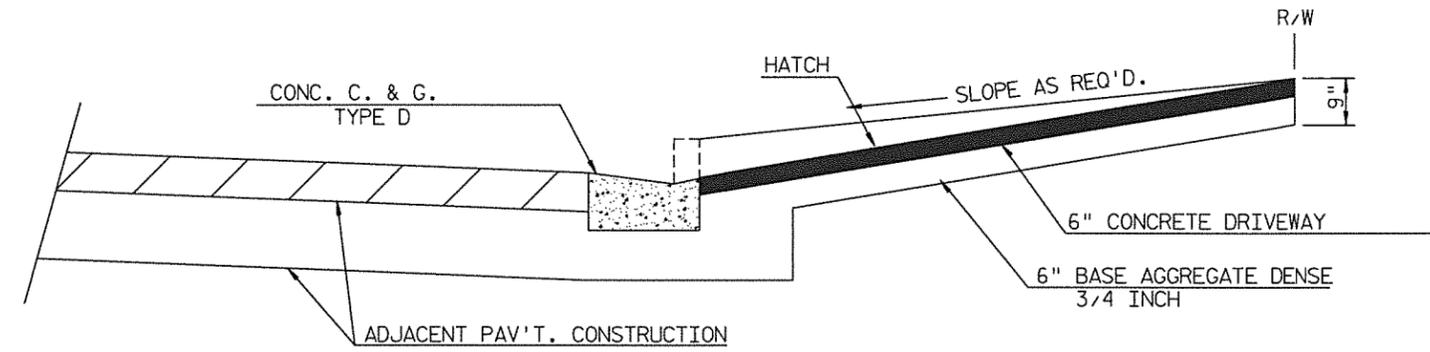


TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE

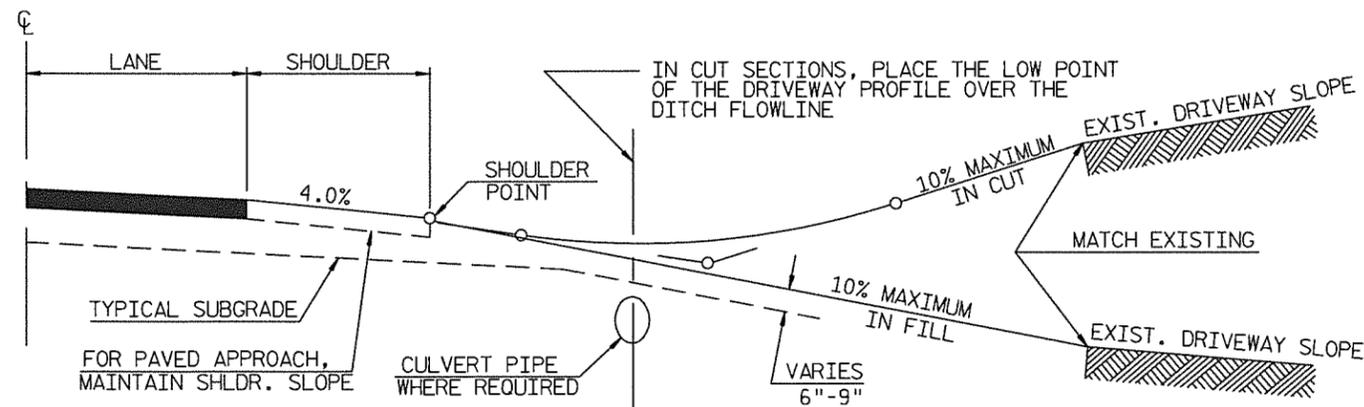


PLAN VIEW PRIVATE ENTRANCES

(*) 1'-8" RESIDENTIAL 6'-8" COMMERCIAL

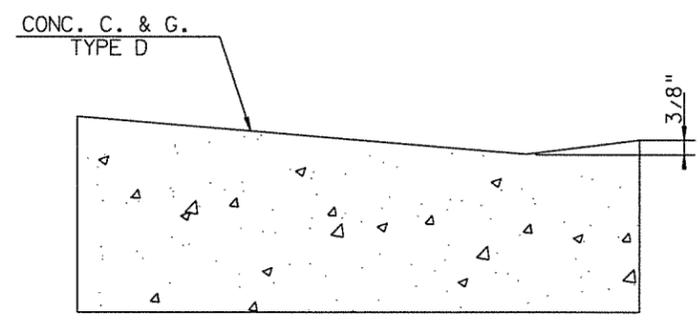


CROSS SECTION THRU DRIVEWAY



TYPICAL DRIVEWAY PROFILES

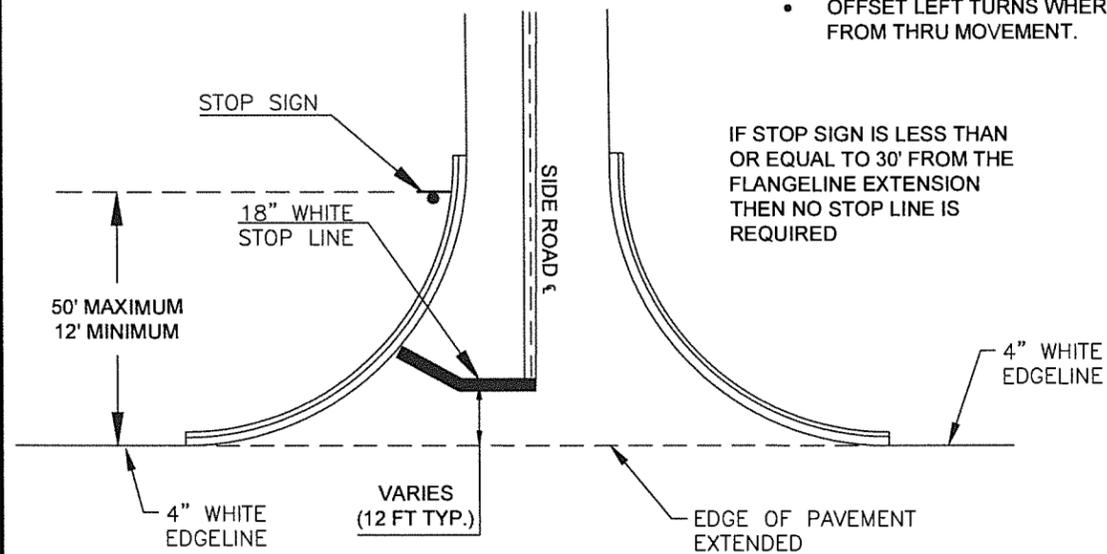
RURAL DRIVEWAY INTERSECTION DETAILS



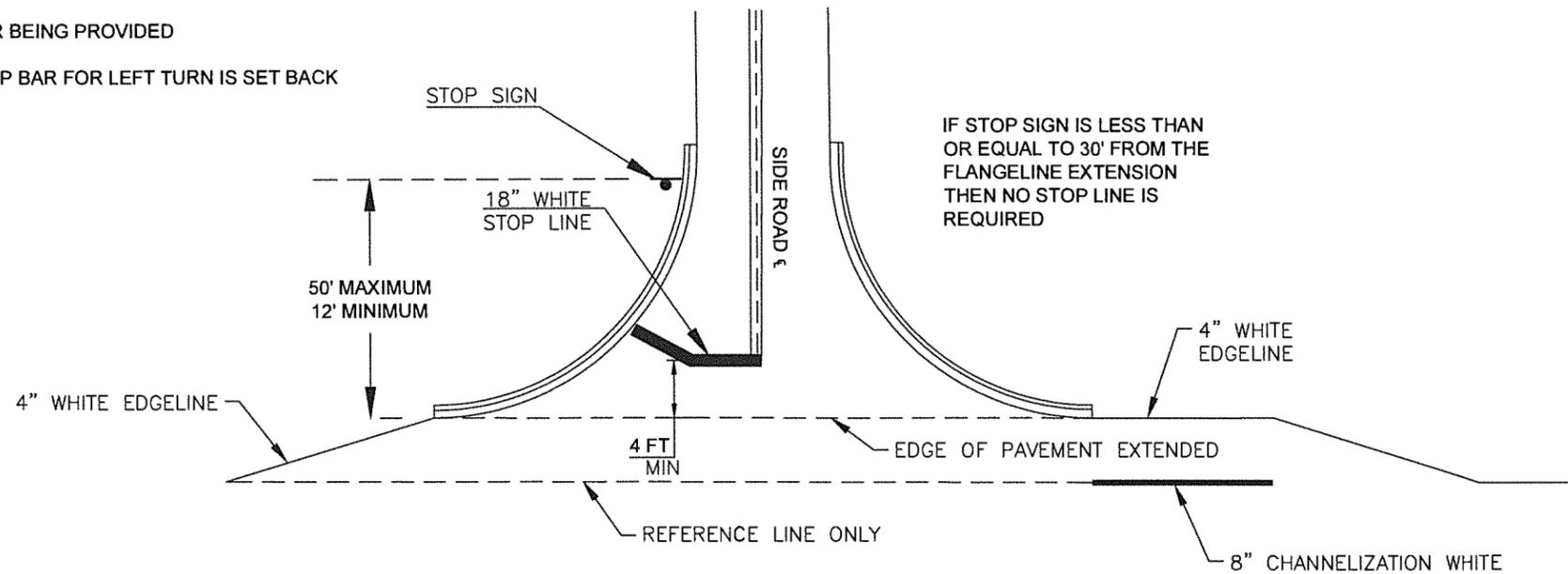
CURB AND GUTTER DETAIL AT DRIVEWAYS

NOTES:
 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER
 BASED ON VISIBILITY AND SIGHT LINES.

- STOP LINES REQUIRED WHERE:
- CROSSWALK MARKINGS EXIST OR BEING PROVIDED
 - LARGE RADII
 - OFFSET LEFT TURNS WHERE STOP BAR FOR LEFT TURN IS SET BACK FROM THRU MOVEMENT.



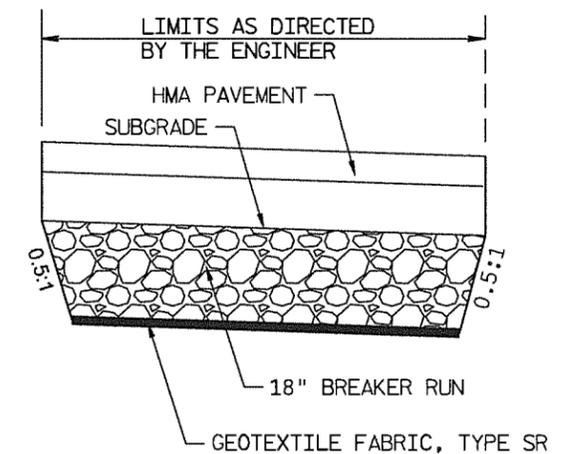
TYPICAL PAVEMENT MARKING FOR SIDEROADS



TYPICAL PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE

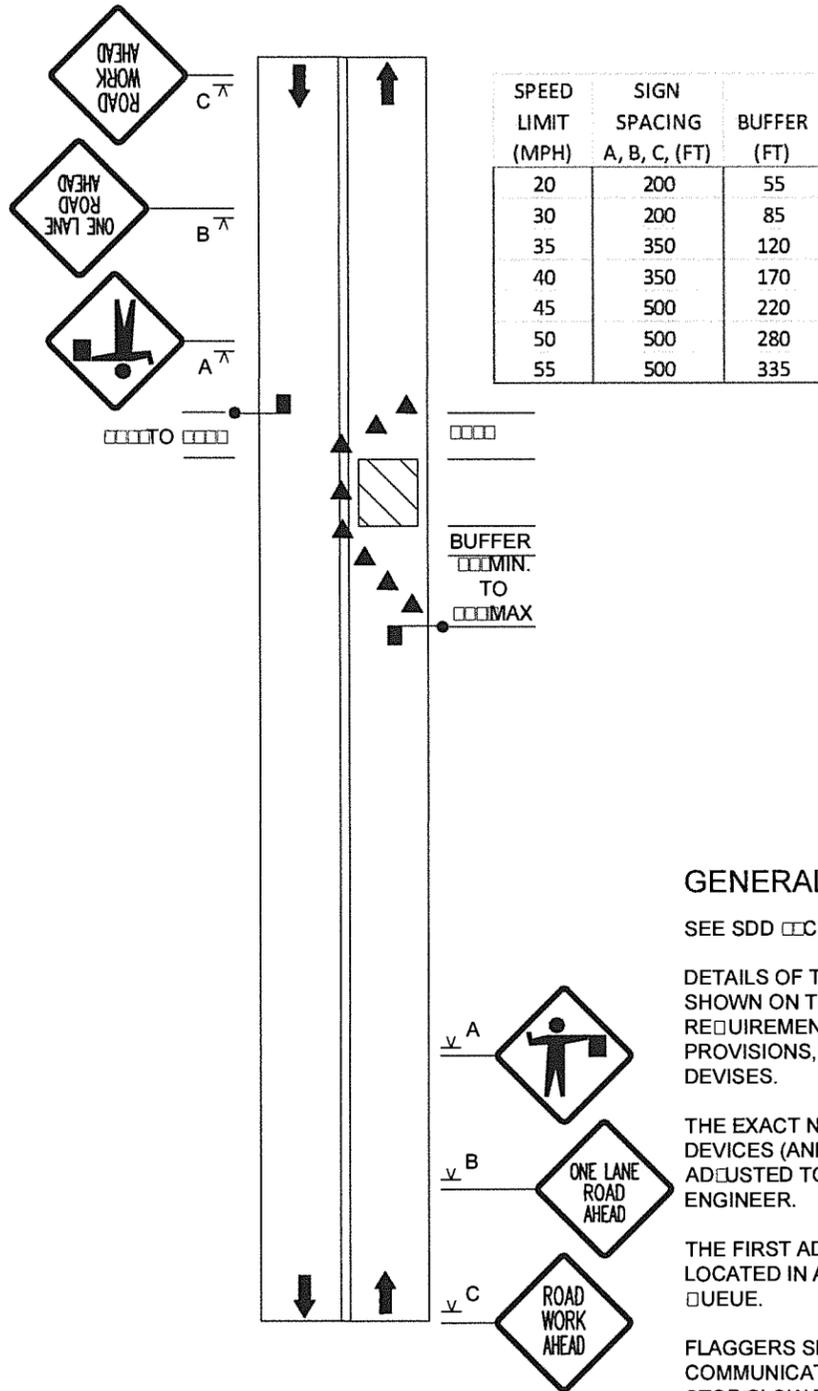
NOTES:

1. EXCAVATE AREA TO A DEPTH OF 18" BELOW SUBGRADE.
2. VIBRATORY CONSOLIDATE WITH SMOOTH DRUM ROLLER LOOSE BACKFILL AT BOTTOM OF EXCAVATION UNDER OBSERVATION OF ENGINEER.
3. IF FURTHER INSTABILITY IS OBSERVED, CEASE FURTHER VIBRATORY COMPACTION.
4. PLACE GEOTEXTILE FABRIC, TYPE SR.
5. PLACE FIRST 12-INCH LIFT AND STATICALLY ROLL GRANULAR BACKFILL MATERIAL. PLACE SECOND LIFT AND STATICALLY ROLL GRANULAR BACKFILL MATERIAL WITH SMOOTH DRUM ROLLER.
6. IF INSTABILITY IS OBSERVED CEASE COMPACTION EFFORTS AND CONSULT GEOTECHNICAL ENGINEER.



EXCAVATION BELOW SUBGRADE
 AS DIRECTED BY THE ENGINEER

MAINLINE LANE CLOSURE



- LEGEND
- ▲ CHANNELIZING DEVICE
 - ⌋ PORTABLE SIGN SUPPORT
 - ▨ WORK AREA
 - ➔ TRAFFIC FLOW
 - 🚧 FLAGGER

GENERAL NOTES

SEE SDD 1000 FOR ADDITIONAL INFORMATION

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATION. THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF TALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

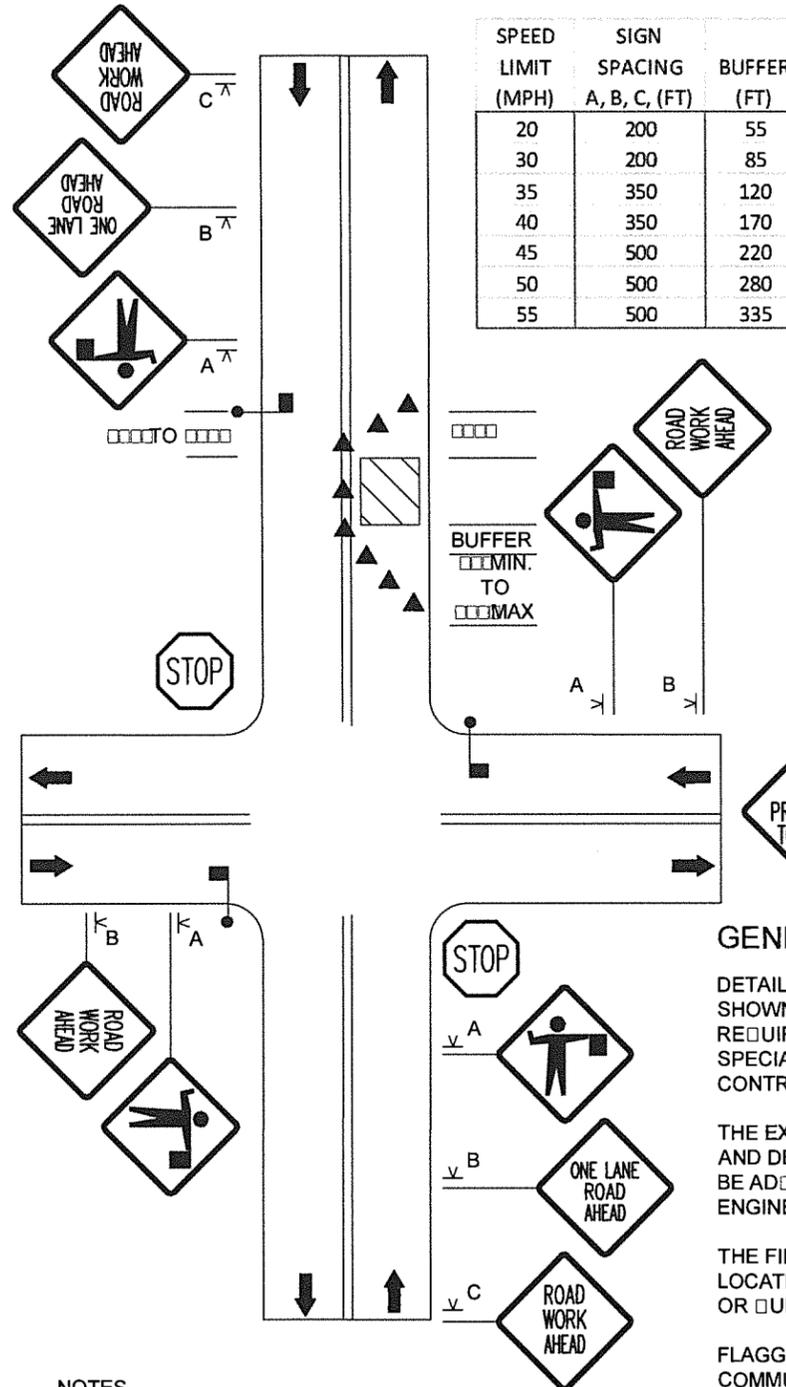
THE FIRST ADVANCED WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGERS OPERATION IS NOT IN EFFECT, THE "FLAGGERS AHEAD", THE "ROAD CONSTRUCTION AHEAD", AND THE ONE LANE ROAD AHEAD" SIGNS SHALL BE COVERED OR REMOVED AND THE HIGHWAY RESTORED TO NORMAL OPERATION.

ALL SIGNS ARE 36"X48" UNLESS OTHERWISE NOTED.

- NOTES
- DEPENDING ON TRAFFIC CONDITIONS, CONSIDER ADDITIONAL TRAFFIC CONTROL, SUCH AS FLAGGERS AND APPROPRIATE SIGNS.

MAINLINE LANE CLOSURE NEAR SIDE ROAD INTERSECTION



- LEGEND
- ▲ CHANNELIZING DEVICE
 - ⌋ PORTABLE SIGN SUPPORT
 - ▨ WORK AREA
 - ➔ TRAFFIC FLOW
 - 🚧 FLAGGER

USE OF THE "BE PREPARED TO STOP" IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE WORK AREA AND WORK AHEAD SIGNS. A TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATION. THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

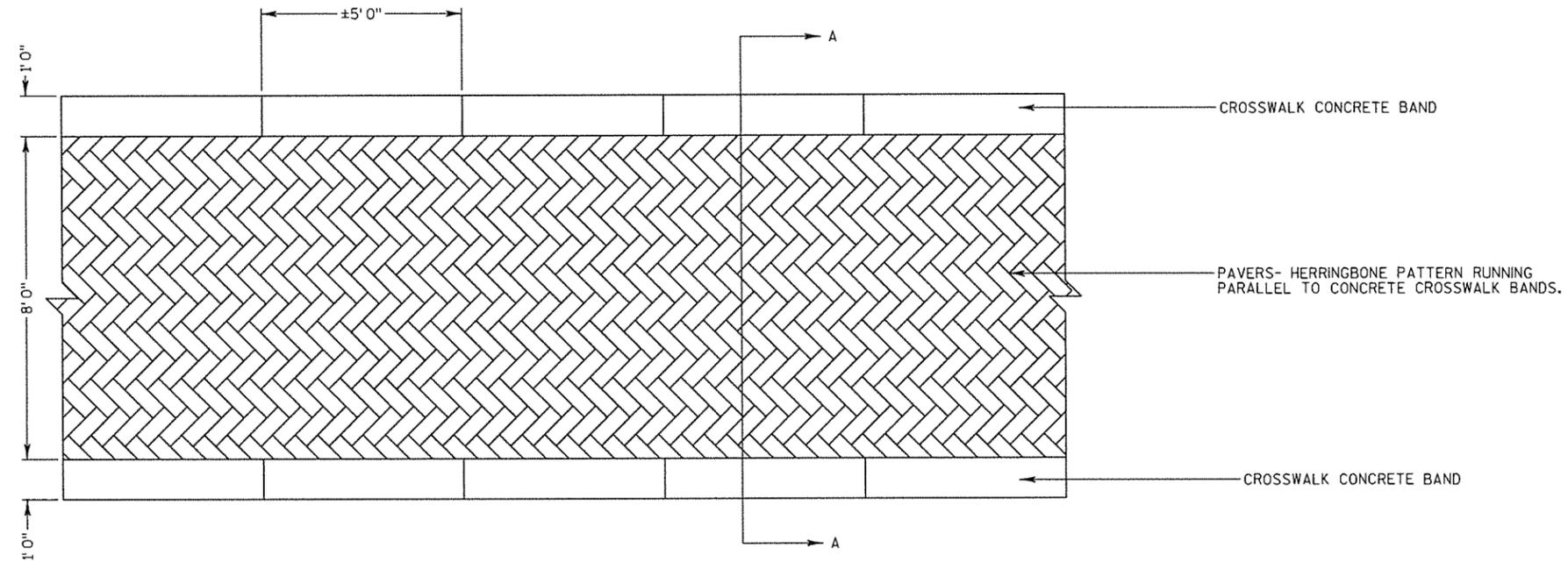
THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF TALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

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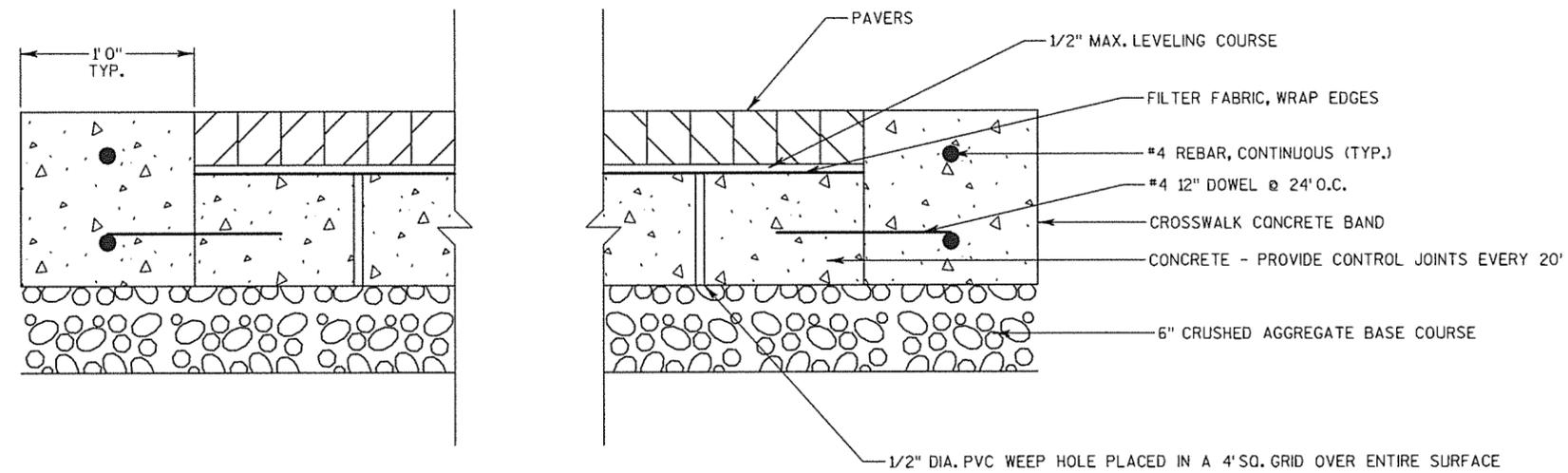
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ALL SIGNS ARE 36"X48" UNLESS OTHERWISE NOTED.

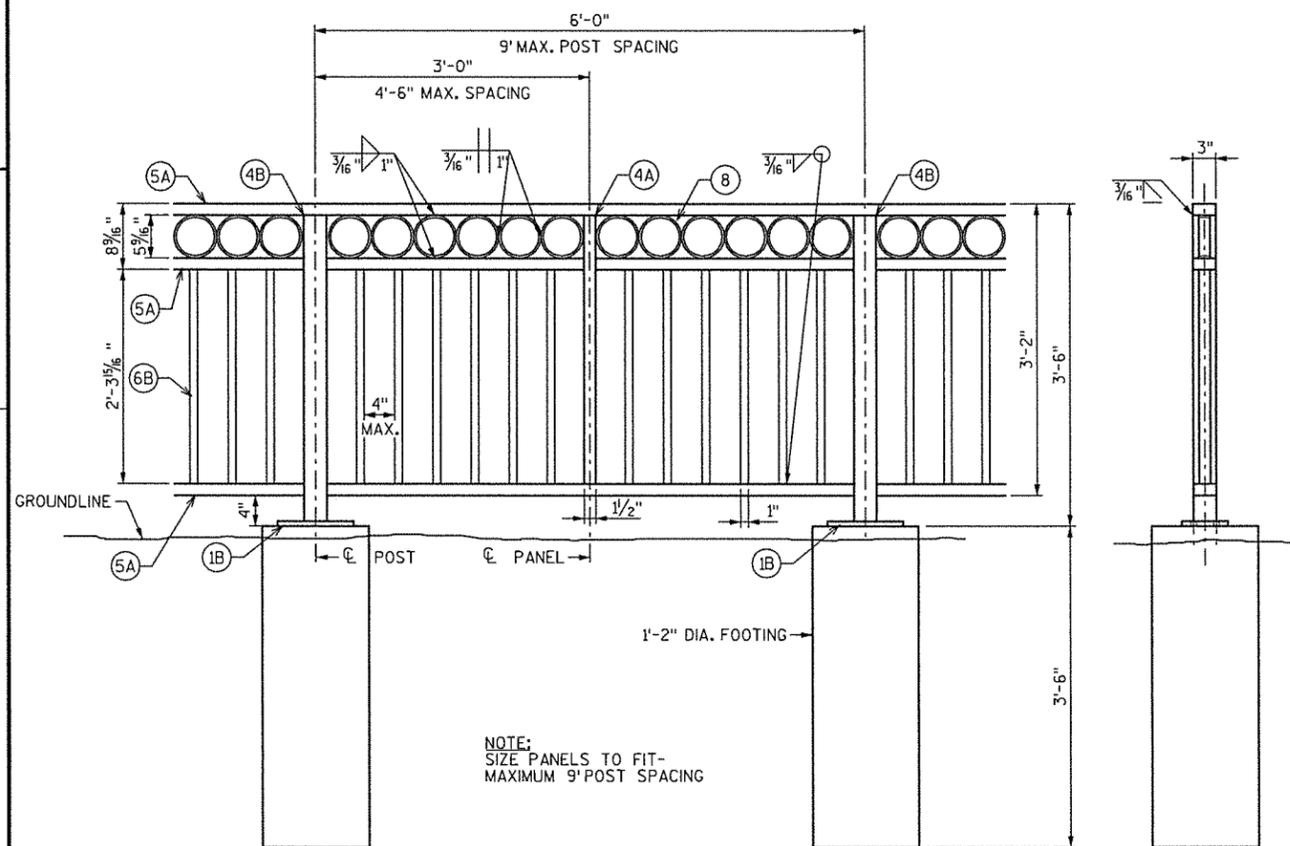
- NOTES
- DEPENDING ON TRAFFIC CONDITIONS, CONSIDER ADDITIONAL TRAFFIC CONTROL, SUCH AS FLAGGERS AND APPROPRIATE SIGNS.
 - THE MIDDLE FLAGGER WOULD NORMALLY BE LEAD FLAGGER AND WOULD COORDINATE THE OTHER FLAGGERS.



PAVER CROSSWALK



SECTION A-A



RAILING ELEVATION

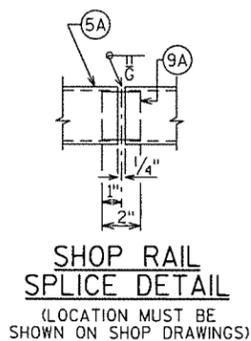
NOTE:
SIZE PANELS TO FIT-
MAXIMUM 9' POST SPACING

LEGEND

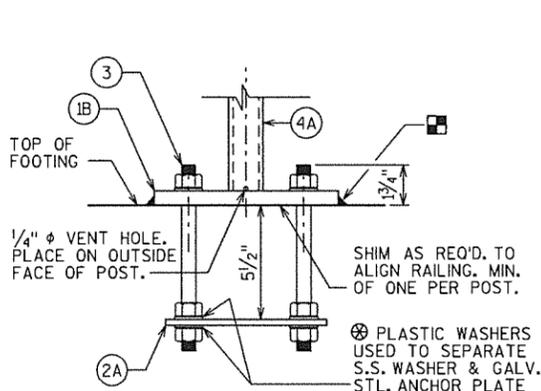
- 1B) PLATE 5/8" X 6" X 10" WITH 3/4" X 1/2" SLOTTED HOLES
- 2A) 1/4" X 5" X 0'-9" ANCHOR PLATE WITH 1/16" HOLES FOR ANCHOR BOLTS NO. 3.
- 3) 5/8" DIA. X 9" LONG, TYPE 316 STAINLESS STEEL THREADED RODS (MIN. TENSILE STRENGTH = 70 KSI) WITH NUT AND WASHERS OF SAME ALLOY GROUP. (ALTERNATE RAIL POST ANCHORAGE: 4 EQUIVALENT STAINLESS STEEL CONCRETE MASONRY ANCHORS TYPE S 5/8"-INCH. EMBED 7" IN CONCRETE FOR RAIL POSTS. EMBED 5" IN CONCRETE FOR END RAILS.)
- 4A) STRUCTURAL TUBING 3" X 1/2" X 3/16". PLACE VERTICAL. WELD TO NO.1 & 5.
- 4B) STRUCTURAL TUBING 3" X 3" X 3/16". PLACE VERTICAL. WELD TO NO.1 & 5.
- 5A) STRUCTURAL TUBING 3" X 1/2" X 3/16" RAILS. WELD TO NO.1 & NO. 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION & EXPANSION JOINTS.
- 6B) BAR 1" X 1/2" PICKETS. WELD TO NO. 5. PLACE VERTICAL.
- 8) STRUCTURAL TUBING 5" φ (STANDARD SIZE) (5.563" O.D.) 1/2" LONG SLICES. WELD TO NO. 5A.
- 9A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. PROVIDE "SLIDING FIT".
- 10A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. (1'-4" @ FIELD ERECTION JTS.) (1'-4" @ STRIP SEAL EXP. JTS.)

RAILING NOTES

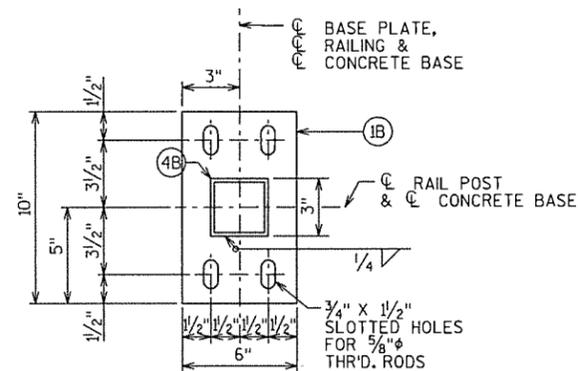
- BID ITEM SHALL BE "RAILING STEEL TYPE C1 GALVANIZED, WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN.
- POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.
- ALL PLATES, BARS, AND RECTANGULAR SLEEVES SHALL CONFORM TO ASTM A709 GRADE 36. ALL STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B.
- ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.
- CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTION.
- STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.
- CAULK AROUND PERIMETER OF BASE PLATES, NO. 1, AND FILL BOLT SLOT OPENINGS IN SHIMS AND BASE PLATES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.
- ALL MATERIAL (EXCEPT NO. 3) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE "SPECIAL PROVISIONS". THE RAILING SHALL BE PAINTED FEDERAL COLOR NO.
- VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.
- TOUCH-UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.



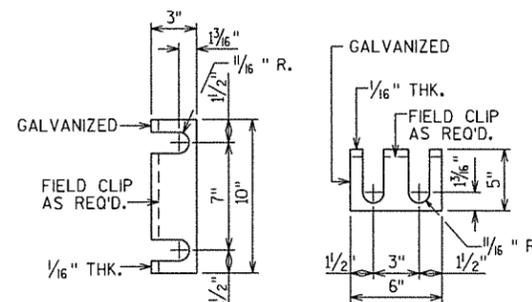
SHOP RAIL SPLICE DETAIL
(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)



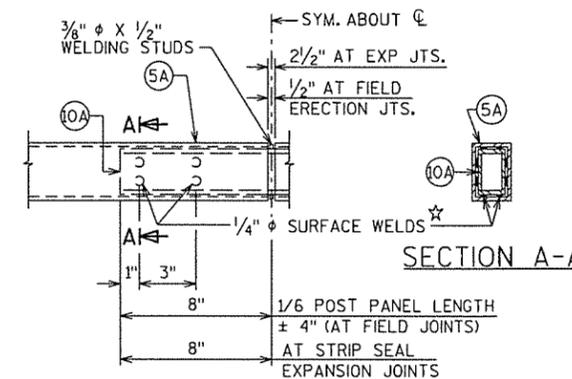
ANCHORAGE FOR RAIL POSTS
NOTE: ANCHOR PLATE NOT REQUIRED WHEN TYPE S ANCHORS ARE USED.



TYPICAL RAIL POST BASE PLATE



RAIL POST SHIM DETAIL
(2 SETS PER POST)



FIELD ERECTION JOINT DETAIL
★ MIN. 5/8" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.

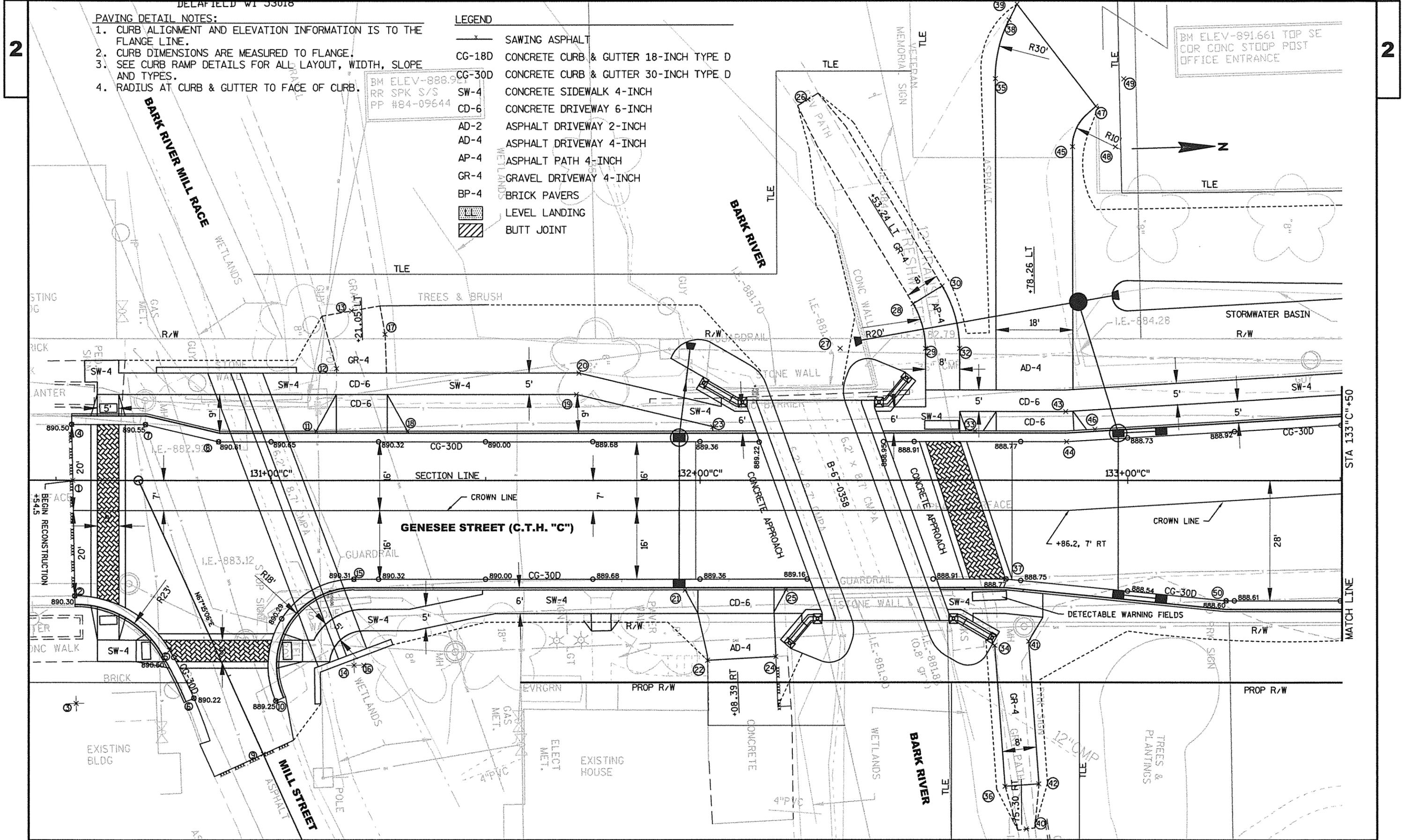
PAVING DETAIL NOTES:

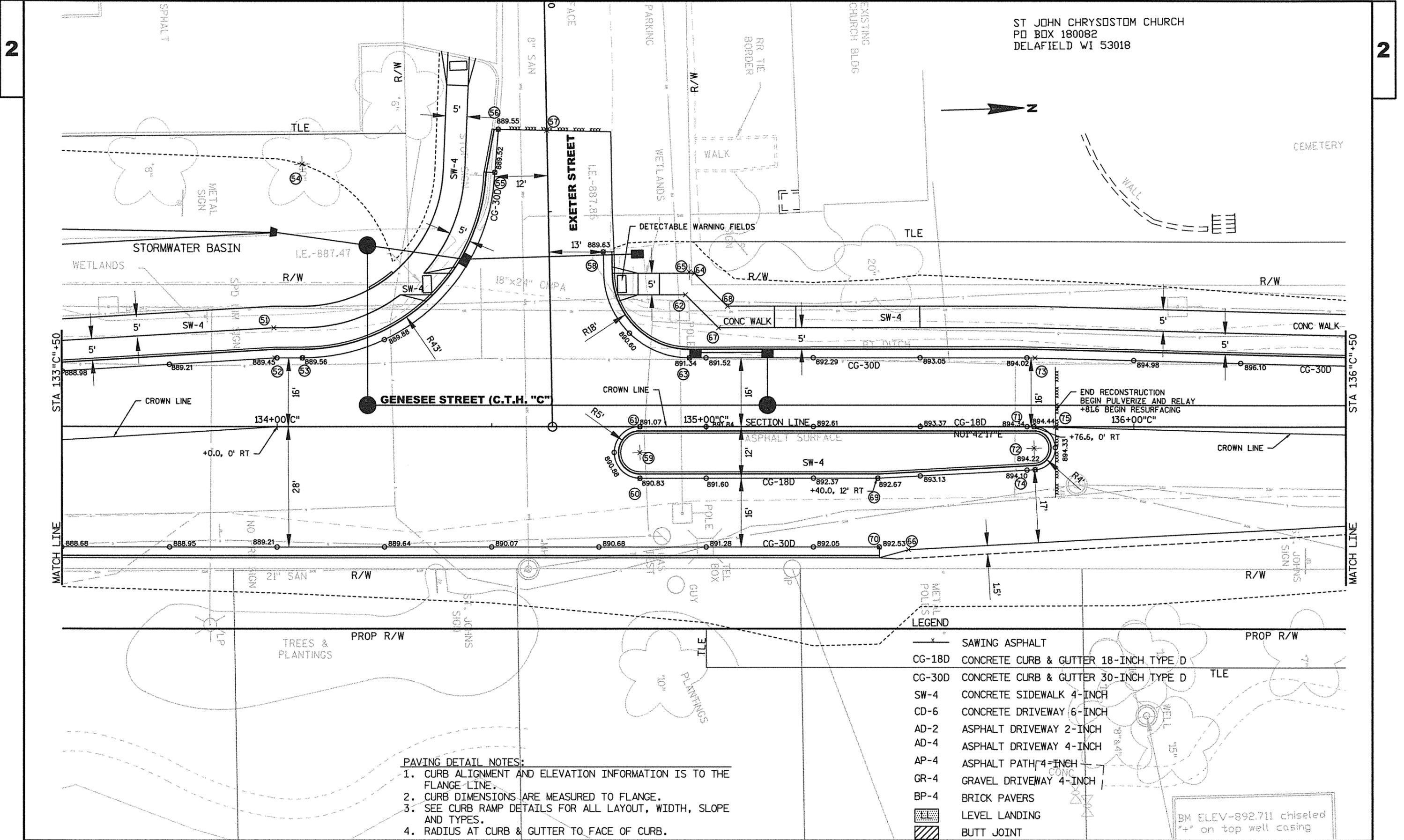
1. CURB ALIGNMENT AND ELEVATION INFORMATION IS TO THE FLANGE LINE.
2. CURB DIMENSIONS ARE MEASURED TO FLANGE.
3. SEE CURB RAMP DETAILS FOR ALL LAYOUT, WIDTH, SLOPE AND TYPES.
4. RADIUS AT CURB & GUTTER TO FACE OF CURB.

LEGEND

- SAWING ASPHALT
- CG-18D CONCRETE CURB & GUTTER 18-INCH TYPE D
- CG-30D CONCRETE CURB & GUTTER 30-INCH TYPE D
- SW-4 CONCRETE SIDEWALK 4-INCH
- CD-6 CONCRETE DRIVEWAY 6-INCH
- AD-2 ASPHALT DRIVEWAY 2-INCH
- AD-4 ASPHALT DRIVEWAY 4-INCH
- AP-4 ASPHALT PATH 4-INCH
- GR-4 GRAVEL DRIVEWAY 4-INCH
- BP-4 BRICK PAVERS
- [Pattern] LEVEL LANDING
- [Pattern] BUTT JOINT

BM ELEV-888.91
RR SPK S/S
PP #84-09644





ST JOHN CHRYSOSTOM CHURCH
 PO BOX 180082
 DELAFIELD WI 53018



- PAVING DETAIL NOTES:**
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 4. RADIUS AT CURB & GUTTER TO FACE OF CURB.

LEGEND	
	SAWING ASPHALT
	CG-18D CONCRETE CURB & GUTTER 18-INCH TYPE D
	CG-30D CONCRETE CURB & GUTTER 30-INCH TYPE D
	SW-4 CONCRETE SIDEWALK 4-INCH
	CD-6 CONCRETE DRIVEWAY 6-INCH
	AD-2 ASPHALT DRIVEWAY 2-INCH
	AD-4 ASPHALT DRIVEWAY 4-INCH
	AP-4 ASPHALT PATH 4-INCH
	GR-4 GRAVEL DRIVEWAY 4-INCH
	BP-4 BRICK PAVERS
	LEVEL LANDING
	BUTT JOINT

BM ELEV-892.711 chiseled "+" on top well casing

LEGEND

- x— SAWING ASPHALT
- CG-18D CONCRETE CURB & GUTTER 18-INCH TYPE D
- CG-30D CONCRETE CURB & GUTTER 30-INCH TYPE D
- SW-4 CONCRETE SIDEWALK 4-INCH
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- AD-4 ASPHALT DRIVEWAY 4-INCH
- AP-4 ASPHALT PATH 4-INCH
- GR-4 GRAVEL DRIVEWAY 4-INCH
- BP-4 BRICK PAVERS
- [Symbol] LEVEL LANDING
- [Symbol] BUTT JOINT

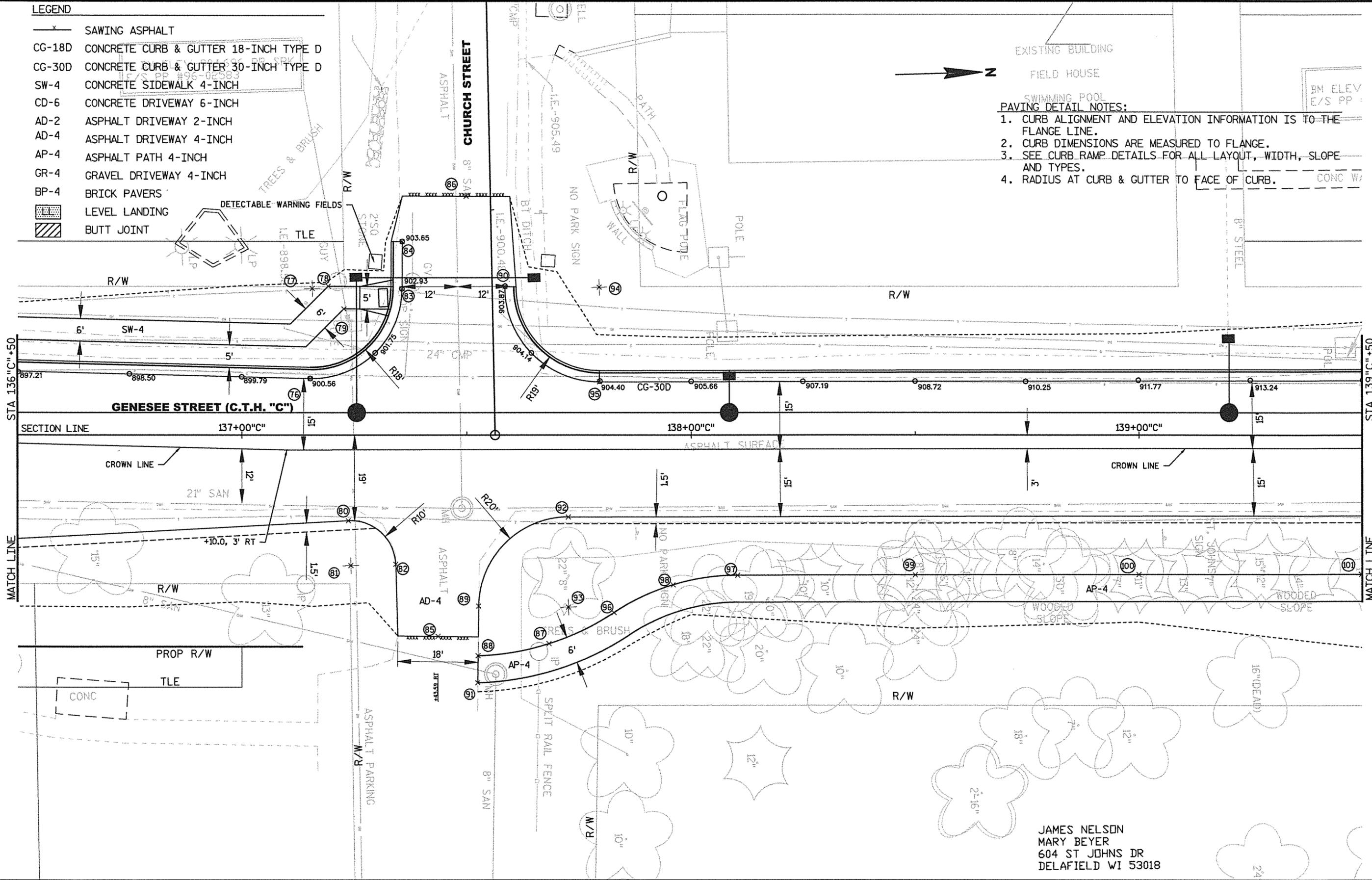
EXISTING BUILDING

FIELD HOUSE

SWIMMING POOL

PAVING DETAIL NOTES:

1. CURB ALIGNMENT AND ELEVATION INFORMATION IS TO THE FLANGE LINE.
2. CURB DIMENSIONS ARE MEASURED TO FLANGE.
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4. RADIUS AT CURB & GUTTER TO FACE OF CURB.



JAMES NELSON
 MARY BEYER
 604 ST JOHNS DR
 DELAFIELD WI 53018

LEGEND

—x—	SAWING ASPHALT
CG-18D	CONCRETE CURB & GUTTER 18-INCH TYPE D
CG-30D	CONCRETE CURB & GUTTER 30-INCH TYPE D
SW-4	CONCRETE SIDEWALK 4-INCH
CD-6	CONCRETE DRIVEWAY 6-INCH
AD-2	ASPHALT DRIVEWAY 2-INCH
AD-4	ASPHALT DRIVEWAY 4-INCH
AP-4	ASPHALT PATH 4-INCH
GR-4	GRAVEL DRIVEWAY 4-INCH
BP-4	BRICK PAVERS
[Pattern]	LEVEL LANDING
[Pattern]	BUTT JOINT

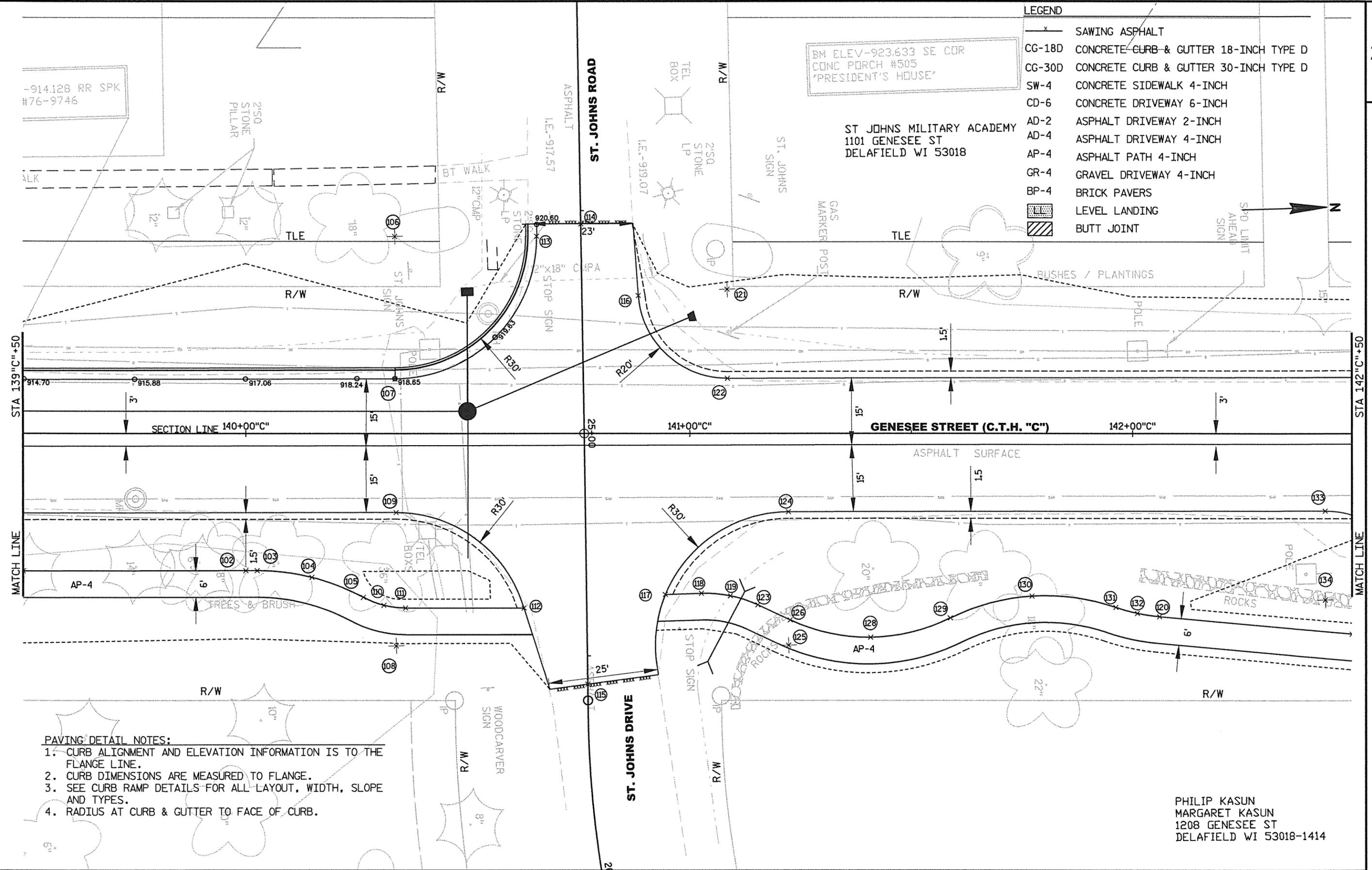
-914.128 RR SPK #76-9746

BM ELEV-923.633 SE COR CONC PORCH #505 'PRESIDENT'S HOUSE'

ST JOHNS MILITARY ACADEMY 1101 GENESEE ST DELAFIELD WI 53018

PHILIP KASUN MARGARET KASUN 1208 GENESEE ST DELAFIELD WI 53018-1414

- PAVING DETAIL NOTES:
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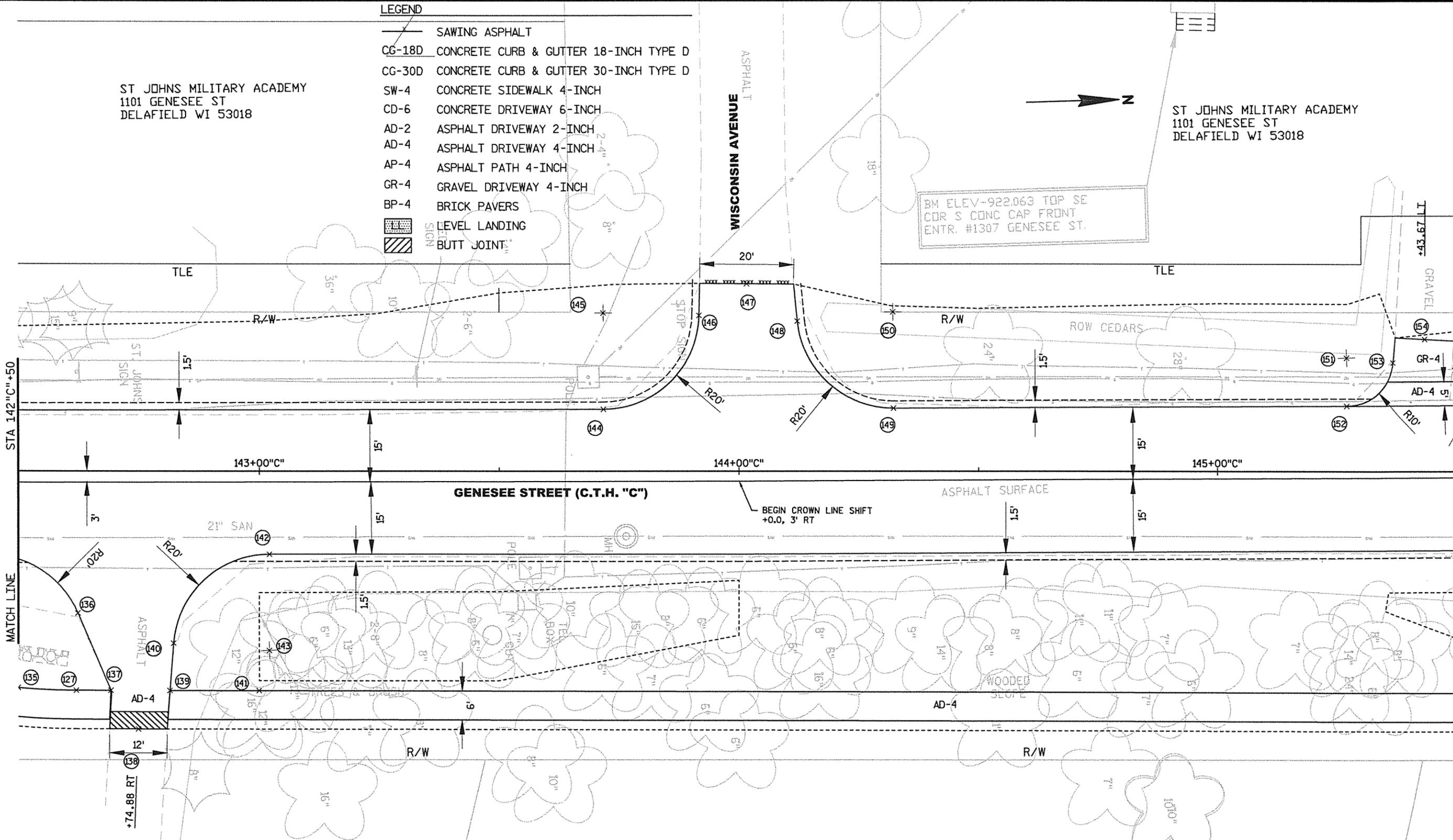


ST JOHNS MILITARY ACADEMY
1101 GENESEE ST
DELAFIELD WI 53018

ST JOHNS MILITARY ACADEMY
1101 GENESEE ST
DELAFIELD WI 53018

LEGEND

- SAWING ASPHALT
- CG-18D CONCRETE CURB & GUTTER 18-INCH TYPE D
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- AD-4 ASPHALT DRIVEWAY 4-INCH
- AP-4 ASPHALT PATH 4-INCH
- GR-4 GRAVEL DRIVEWAY 4-INCH
- BP-4 BRICK PAVERS
- LEVEL LANDING
- ▨ BUTT JOINT



BM ELEV-922.063 TOP SE
COR S CONC CAP FRONT
ENTR. #1307 GENESEE ST.



ROW CEDARS

GENESEE STREET (C.T.H. "C")

ASPHALT SURFACE

BEGIN CROWN LINE SHIFT
+0.0, 3' RT

LOT OWNERS OF LOTS 1-53 OF ST JOHNS ON THE LAKE

- PAVING DETAIL NOTES:
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LEGEND

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- AP-4 ASPHALT PATH 4-INCH
- GR-4 GRAVEL DRIVEWAY 4-INCH
- BP-4 BRICK PAVERS
- LEVEL LANDING
- BUTT JOINT

JAMES SHANKLIN
TAWNYA SHANKLIN
1906 W SHORE DR
DELAFIELD WI 53018

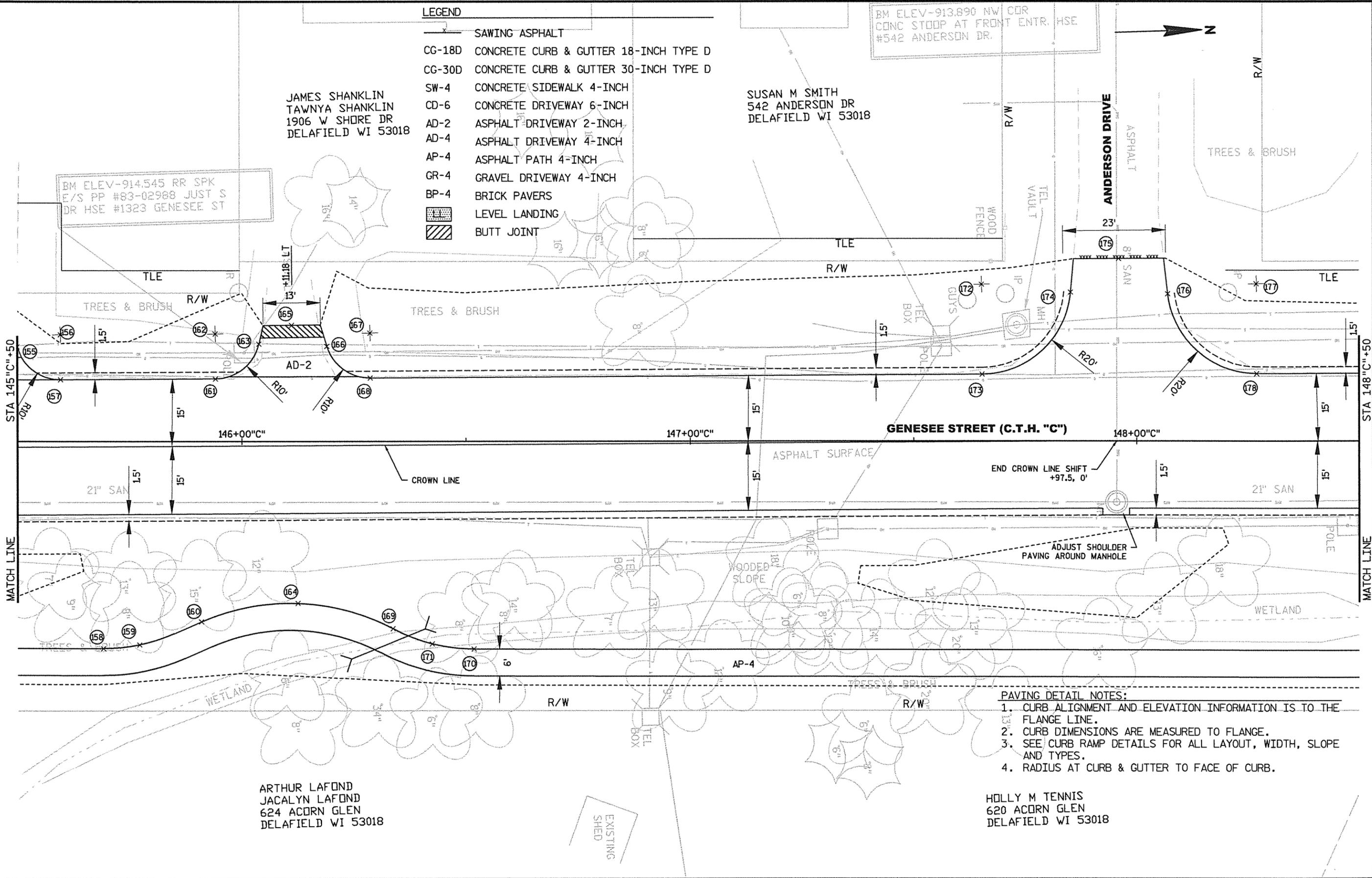
SUSAN M SMITH
542 ANDERSON DR
DELAFIELD WI 53018

ARTHUR LAFOND
JACALYN LAFOND
624 ACORN GLEN
DELAFIELD WI 53018

HOLLY M TENNIS
620 ACORN GLEN
DELAFIELD WI 53018

BM ELEV-913.890 NW COR
CONC STOOP AT FRONT ENTR. HSE
#542 ANDERSON DR.

BM ELEV-914.545 RR SPK
E/S PP #83-02988 JUST S
DR HSE #1323 GENESEE ST



- PAVING DETAIL NOTES:
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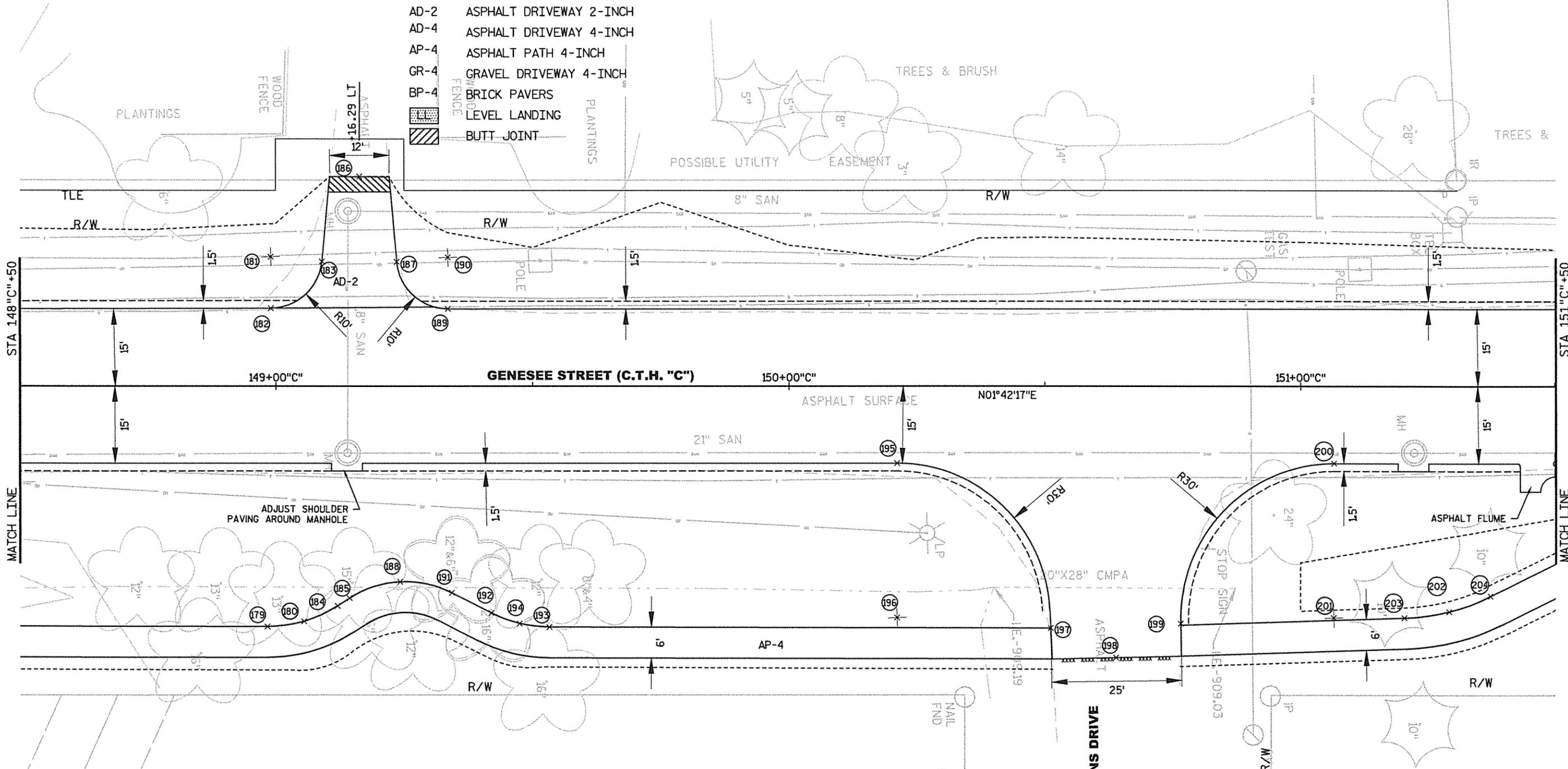
LEGEND

- x — SAWING ASPHALT
- CG-18D CONCRETE CURB & GUTTER 18-INCH TYPE D
- CG-30D CONCRETE CURB & GUTTER 30-INCH TYPE D
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- AP-4 ASPHALT PATH 4-INCH
- GR-4 GRAVEL DRIVEWAY 4-INCH
- BP-4 BRICK PAVERS
- LEVEL LANDING
- BUTT JOINT

DAVID LEEF
 1411 GENESEE ST
 DELAFIELD WI 53018



NDRV
 1435
 DELA



TERRY L GEIER
 ANNE M WINTER-GEIER
 733 ST JOHNS DR
 DELAFIELD WI 53018

BM ELEV- 912.960 TOP NW
 COR CONC STOOP (NEAR GAR) AT
 HOUSE #735 ST. JOHNS DR

- PAVING DETAIL NOTES:
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 4. RADIUS AT CURB & GUTTER TO FACE OF CURB.

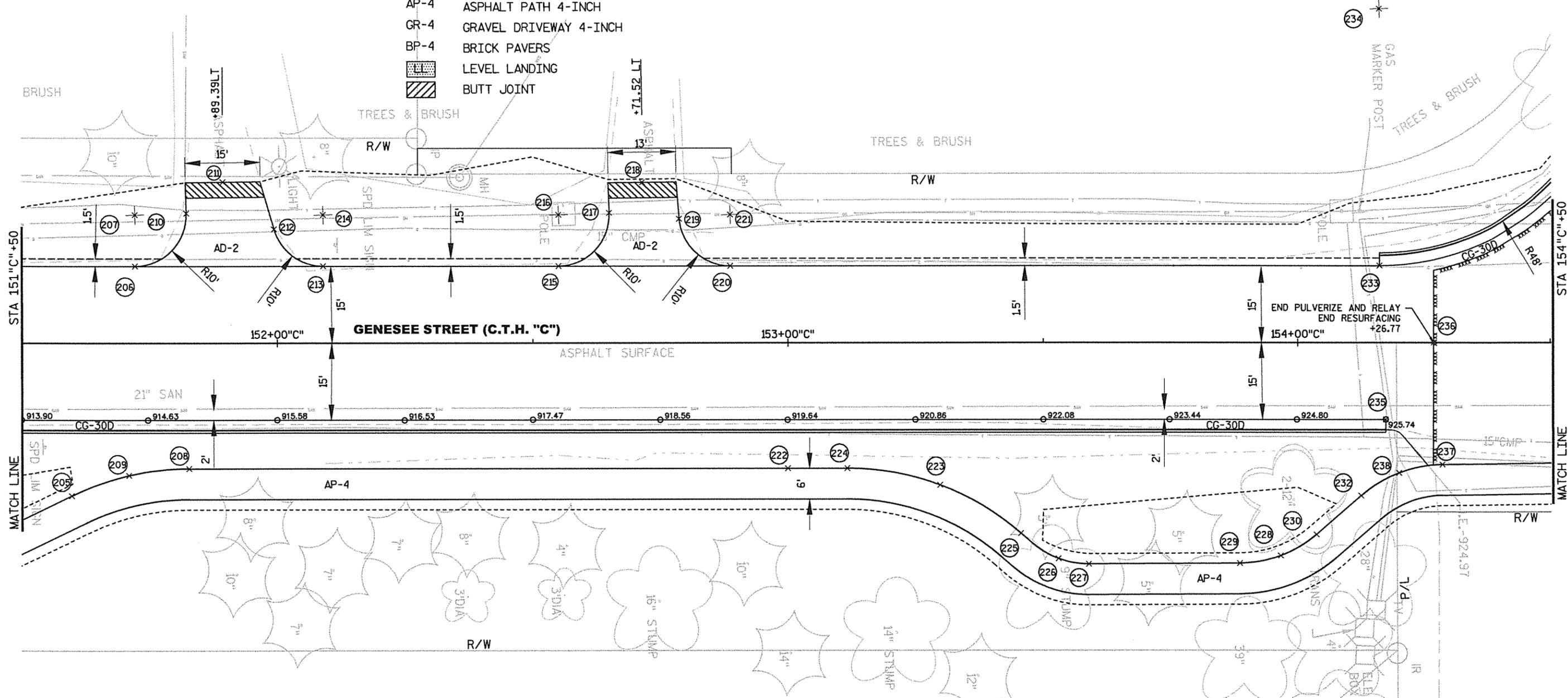
IAN & SHIRLEY SELTZER TRUST
GENESEE ST
FIELD WI 53018

LAFORE TRUST
1441 GENESEE ST
DELAFIELD WI 53018



LEGEND

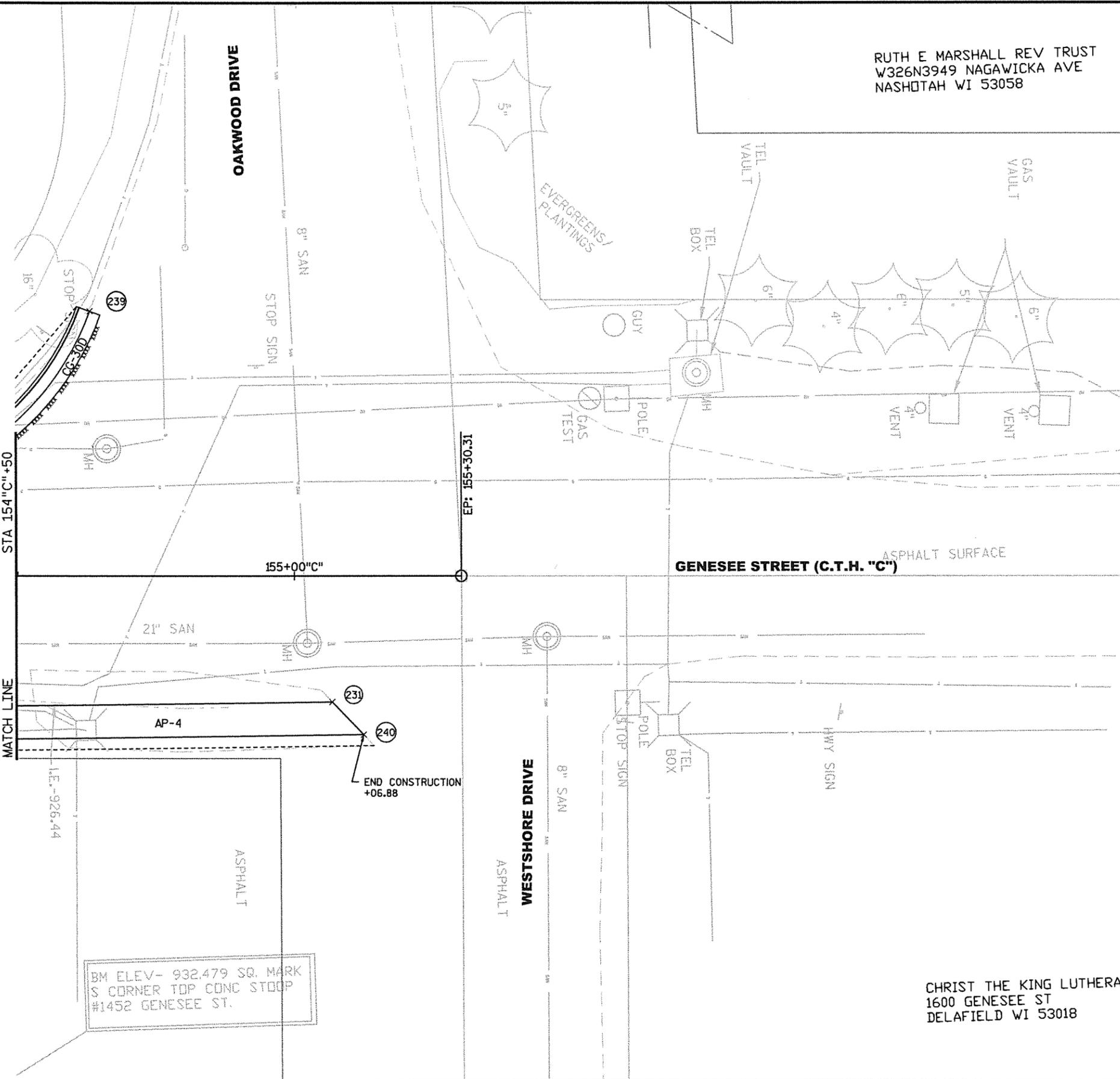
- x — SAWING ASPHALT
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- CG-30D CONCRETE CURB & GUTTER 30-INCH TYPE D
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- GR-4 GRAVEL DRIVEWAY 4-INCH
- BP-4 BRICK PAVERS
- [Pattern] LEVEL LANDING
- [Pattern] BUTT JOINT



RICHARD L DAY
SALLY M DAY
623 ANTHONY CT
DELAFIELD WI 53018

PAVING DETAIL NOTES:

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RUTH E MARSHALL REV TRUST
 W326N3949 NAGAWICKA AVE
 NASHOTAH WI 53058



LEGEND

- SAWING ASPHALT
- CG-18D CONCRETE CURB & GUTTER 18-INCH TYPE D
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- ▒ LEVEL LANDING
- ▨ BUTT JOINT

PAVING DETAIL NOTES:

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BM ELEV- 932.479 SQ. MARK
 S CORNER TOP CONC STOOP
 #1452 GENESEE ST.

CHRIST THE KING LUTHERA'
 1600 GENESEE ST
 DELAFIELD WI 53018

2

Point Number	Description	Station	Offset	Northing	Easting
1	SAWCUT	130+53.89'	0.000'	179682.5532'	637119.7473'
2	PC FLANGE	130+54.37'	26.882'	179682.2288'	637146.6317'
3	R=25.0', FLANGE	130+54.67'	51.880'	179681.7803'	637171.6277'
4	FLANGE	130+53.66'	-13.000'	179682.7100'	637106.7463'
5	PT FLANGE	130+76.36'	39.455'	179703.8337'	637159.8528'
6	FLANGE	130+81.96'	50.617'	179709.0958'	637171.1771'
7	FLANGE	130+70.81'	-13.000'	179699.8522'	637107.2564'
8	FLANGE	130+87.77'	-9.000'	179716.6774'	637111.7589'
9	SAWCUT	130+98.09'	63.615'	179724.8367'	637184.6487'
10	PC FLANGE	131+01.06'	51.279'	179728.1722'	637172.4066'
11	BOC_DW	131+10.48'	-11.500'	179739.4514'	637109.9356'
12	DW	131+15.25'	-26.044'	179744.6591'	637095.5396'
13	MATCH	131+18.76'	-39.473'	179748.5649'	637082.2211'
14	R=20.0', FLANGE	131+19.27'	43.000'	179746.6164'	637164.6729'
15	PT FLANGE	131+19.27'	23.000'	179747.2114'	637144.6818'
16	R=13.0', FOW	131+21.54'	43.000'	179748.8924'	637164.7407'
17	DW	131+26.54'	-34.042'	179756.1770'	637087.8810'
18	BOC_DW	131+31.74'	-11.500'	179760.7110'	637110.5683'
19	FOW	131+71.18'	-20.000'	179800.3785'	637103.2450'
20	BOW	131+71.76'	-25.000'	179801.1089'	637098.2645'
21	BOC_DW	131+96.50'	25.500'	179824.3336'	637149.4781'
22	DW	132+01.73'	41.876'	179829.0740'	637166.0020'
23	FOW	132+02.96'	-12.500'	179831.9258'	637111.6872'
24	DW	132+17.70'	41.000'	179845.0690'	637165.6018'
25	BOC_DW	132+20.09'	25.500'	179847.9193'	637150.1800'
26	MATCH	132+25.44'	-88.462'	179856.6535'	637036.4275'
27	R=20.0', FOW R=28.0', BOW	132+32.72'	-30.686'	179862.2137'	637094.3950'
28	PT FOW	132+49.82'	-41.059'	179879.6143'	637084.5350'
29	PC FOW	132+52.72'	-30.686'	179882.2049'	637094.9899'
30	BOW	132+56.66'	-45.208'	179886.5745'	637080.5910'
31	PT BOW	132+56.66'	-45.208'	179886.5745'	637080.5910'
32	PC BOW	132+60.72'	-30.686'	179890.2013'	637095.2279'
33	BOC_DW	132+64.26'	-11.500'	179893.1684'	637114.5103'
34	FOW	132+68.91'	38.436'	179896.3300'	637164.5622'
35	PC DW	132+69.26'	-93.231'	179900.5975'	637032.9638'
36	FOW	132+71.33'	71.132'	179897.7784'	637197.3162'
37	FLANGE	132+71.44'	23.000'	179899.3185'	637149.2086'
38	PT DW	132+72.53'	-106.840'	179904.2651'	637019.4582'
39	DW_SAW CUT	132+74.38'	-110.485'	179906.2280'	637015.8700'
40	MATCH	132+76.34'	81.046'	179902.4884'	637207.3750'
41	BOW	132+76.86'	37.460'	179904.3033'	637163.8229'
42	BOW	132+79.27'	70.549'	179905.7327'	637196.9695'
43	FOW	132+85.53'	-16.000'	179914.5626'	637110.6450'
44	FLANGE	132+85.75'	-9.000'	179914.5694'	637117.6483'
45	PC DW	132+87.26'	-77.530'	179918.1225'	637049.1934'
46	BOC_DW	132+92.37'	-11.913'	179921.2810'	637114.9342'
47	PT DW	132+92.73'	-86.879'	179923.8641'	637040.0118'
48	R=10.0', DW	132+97.26'	-77.530'	179928.1181'	637049.4908'
49	R=30.0', DW	132+99.26'	-93.231'	179930.5842'	637033.8562'
50	FLANGE	133+23.06'	28.000'	179950.7712'	637155.7420'
51	PC FOW	133+99.29'	-23.000'	180028.4765'	637107.0324'
52	FLANGE	133+99.51'	-16.000'	180028.4897'	637114.0355'
53	PC FLANGE	134+05.90'	-16.000'	180034.8762'	637114.2256'
54	R=43.0', FLANGE R=38.0', FOW	134+05.90'	-61.000'	180036.2148'	637069.2455'
55	PT FLANGE	134+50.86'	-59.081'	180081.0969'	637072.5008'

Point Number	Description	Station	Offset	Northing	Easting
56	FLANGE	134+51.68'	-69.040'	180082.2117'	637062.5706'
57	SAWCUT	134+63.02'	-68.812'	180093.5449'	637063.1363'
58	PC FLANGE	134+76.10'	-40.657'	180105.7761'	637091.6678'
59	R=5.0', FLANGE	134+84.54'	6.000'	180112.8308'	637138.5553'
60	PT FLANGE	134+84.54'	12.000'	180112.6522'	637144.5526'
61	PC FLANGE	134+84.54'	0.000'	180113.0093'	637132.5579'
62	FOW	134+95.25'	-30.698'	180124.6257'	637102.1924'
63	PT FLANGE	134+96.18'	-16.000'	180125.1172'	637116.9112'
64	BOW	134+97.32'	-35.698'	180126.8445'	637097.2562'
65	R=20.0', FLANGE	134+96.18'	-36.000'	180125.7122'	637096.9200'
66	EOP	135+47.25'	28.610'	180174.8367'	637163.0201'
67	FOW	135+02.95'	-23.000'	180132.0909'	637110.1156'
68	BOW	135+05.02'	-28.000'	180134.3098'	637105.1794'
69	FLANGE	135+40.11'	12.000'	180168.2000'	637146.2057'
70	FLANGE	135+40.44'	28.000'	180168.0509'	637162.2084'
71	PT FLANGE	135+76.64'	0.000'	180205.0712'	637135.2977'
72	R=5.0', FLANGE	135+76.64'	5.000'	180204.9225'	637140.2955'
73	FLANGE	135+76.89'	-15.999'	180205.7880'	637119.3130'
74	PC FLANGE	135+76.92'	9.993'	180205.0462'	637145.2940'
75	SAW CUT	135+81.64'	0.000'	180210.0671'	637135.4464'
76	PC FLANGE	137+15.13'	-12.581'	180343.8749'	637126.8418'
77	R=20.0', FLANGE	137+15.63'	-32.575'	180344.9638'	637106.8714'
78	BOW	137+19.19'	-33.064'	180348.5402'	637106.4885'
79	FOW	137+22.66'	-28.045'	180351.8527'	637111.6083'
80	PC EOP	137+23.58'	18.991'	180351.3756'	637158.6517'
81	R=10.0', EOP	137+24.12'	28.977'	180351.6230'	637168.6486'
82	PT EOP	137+34.12'	28.679'	180361.6230'	637168.6486'
83	PT FLANGE	137+35.63'	-32.508'	180364.9528'	637107.5340'
84	FLANGE	137+35.66'	-42.983'	180365.2998'	637097.0639'
85	SAWCUT	137+43.59'	44.712'	180370.6141'	637184.9560'
86	SAWCUT	137+50.00'	-52.988'	180379.9267'	637087.4901'
87	MID FOP	137+68.36'	46.331'	180395.3227'	637187.3112'
88	PC FOP	137+52.54'	48.996'	180379.4333'	637189.5041'
89	PC EOP	137+52.67'	37.960'	180379.8871'	637178.4772'
90	PC FLANGE	137+58.58'	-32.956'	180387.9100'	637107.7681'
91	BOP	137+52.47'	54.999'	180379.1864'	637195.5032'
92	PT EOP	137+72.63'	18.188'	180400.4307'	637159.3075'
93	R=20.0', EOP	137+72.67'	38.188'	180399.8702'	637179.2997'
94	R=21.0', FLANGE	137+79.58'	-32.824'	180408.8964'	637108.5249'
95	PT FLANGE	137+79.58'	-11.824'	180408.2725'	637129.5156'
96	PT, PC FOP	137+82.83'	39.422'	180409.9979'	637180.8363'
97	PT FOP	138+10.34'	31.123'	180437.7341'	637173.3584'
98	MID FOP	137+95.98'	33.255'	180423.3174'	637175.0625'
99	FOP	138+50.00'	31.054'	180477.3824'	637174.4699'
100	FOP	139+00.00'	30.968'	180527.3628'	637175.8711'
101	FOP	139+50.00'	30.882'	180577.3433'	637177.2722'
102	FOP	140+00.00'	30.796'	180627.3237'	637178.6734'
103	PC FOP	140+02.56'	30.791'	180629.8854'	637178.7452'
104	MID FOP	140+14.87'	32.308'	180642.1425'	637180.6272'
105	PT, PC FOP	140+26.43'	36.807'	180653.5594'	637185.4677'
106	R=32.0', FLANGE	140+33.58'	-44.262'	180663.1261'	637104.6476'
107	PC FLANGE	140+33.59'	-12.262'	180662.1779'	637136.6336'
108	R=30.0', EOP	140+33.84'	47.737'	180660.6478'	637196.6143'
109	PC EOP	140+33.79'	17.737'	180661.4885'	637166.6261'
110	MID FOP	140+31.03'	38.602'	180658.1096'	637187.3993'
111	PT FOP	140+35.94'	39.213'	180662.9945'	637188.1558'
112	PT EOP; FOP	140+62.61'	39.213'	180689.6596'	637188.9493'

Point Number	Description	Station	Offset	Northing	Easting
113	PT FLANGE	140+65.58'	-44.294'	180695.1129'	637105.5678'
114	SAWCUT	140+75.58'	-47.068'	180705.1843'	637103.0929'
115	SAWCUT	140+77.06'	56.336'	180703.5917'	637206.4949'
116	PC EOP	140+88.50'	-30.987'	180717.6252'	637119.5505'
117	PC EOP; FOP	140+94.49'	36.179'	180721.6121'	637186.8650'
118	PC FOP	141+02.60'	35.919'	180729.7249'	637186.8469'
119	MID FOP	141+09.10'	36.472'	180736.2069'	637187.5927'
120	PT FOP	142+06.13'	41.151'	180833.0531'	637195.1556'
121	R=20.0', EOP	141+08.45'	-32.392'	180737.6088'	637118.7404'
122	PT EOP	141+08.49'	-12.392'	180737.0483'	637138.7325'
123	PT FOP	141+15.30'	38.514'	180742.3403'	637189.8184'
124	PT EOP	141+22.19'	17.585'	180749.8483'	637169.1031'
125	R=30.0', EOP	141+22.24'	47.585'	180749.0076'	637199.0914'
126	PC EOP	141+22.57'	41.896'	180749.5113'	637193.4150'
127	FOP	142+62.02'	45.553'	180888.7853'	637201.2184'
128	MID FOP	141+40.76'	45.807'	180767.5796'	637197.8654'
129	PT, PC FOP	141+58.86'	41.474'	180785.7973'	637194.0727'
130	MID FOP	141+77.31'	36.537'	180804.3841'	637189.6869'
131	PT, PC FOP	141+96.24'	39.057'	180823.2310'	637192.7689'
132	MID FOP	142+01.12'	40.402'	180828.0700'	637194.2588'
133	PC EOP	142+43.93'	17.375'	180871.5462'	637172.5148'
134	R=20.0', EOP	142+43.97'	37.375'	180870.9857'	637192.5070'
135	FOP	142+50.00'	45.021'	180876.7899'	637200.3297'
136	PT EOP	142+62.36'	29.518'	180889.6035'	637185.2011'
137	EOP/FOP	142+69.21'	45.566'	180895.9721'	637201.4455'
138	BUTT JOINT	142+74.88'	53.576'	180901.4013'	637209.6210'
139	EOP/FOP	142+81.43'	45.588'	180908.1938'	637201.8316'
140	PC EOP	142+82.18'	35.752'	180909.2355'	637192.0223'
141	FOP	143+00.00'	45.623'	180926.7499'	637202.4179'
142	PT EOP	143+02.13'	17.273'	180929.7185'	637174.1437'
143	R=20.0', EOP	143+02.13'	37.273'	180929.1236'	637194.1349'
144	PC EOP	143+71.73'	-12.846'	181000.1843'	637146.1093'
145	R=20.0', EOP	143+71.69'	-32.846'	181000.7448'	637126.1171'
146	PT EOP	143+91.69'	-32.345'	181020.7148'	637127.2118'
147	SAWCUT	144+01.67'	-38.905'	181030.8906'	637120.9521'
148	PC EOP	144+12.22'	-31.164'	181041.2070'	637129.0032'
149	PT EOP	144+32.24'	-13.066'	181060.6757'	637147.6891'
150	R=20.0', EOP	144+32.13'	-33.066'	181061.1642'	637127.6950'
151	R=10.0', EOP	145+27.01'	-23.571'	181155.7215'	637140.0083'
152	PC EOP	145+27.07'	-13.571'	181155.4772'	637150.0053'
153	PT EOP	145+36.96'	-22.575'	181165.6378'	637141.2997'
154	MATCH	145+43.67'	-27.441'	181172.4889'	637136.6355'
155	PC EOP	145+50.00'	-21.030'	181178.6220'	637143.2317'

2

Point Number	Description	Station	Offset	Northing	Easting
170	PT FOP	146+51.77'	46.268'	181278.3473'	637213.5271'
171	MID FOP	146+42.41'	45.108'	181269.0188'	637212.0896'
172	R=20.0',EOP	147+65.28'	-34.839'	181394.2128'	637135.8322'
173	PC EOP	147+65.38'	-14.840'	181393.7243'	637155.8262'
174	PT EOP	147+85.20'	-33.066'	181414.0725'	637138.1972'
175	BUTT JOINT	147+95.96'	-40.564'	181425.0575'	637131.0228'
176	PC EOP	148+06.96'	-32.742'	181435.8201'	637139.1689'
177	R=20.0',EOP	148+26.84'	-34.992'	181455.7513'	637137.5114'
178	PT EOP	148+26.87'	-14.992'	181455.1908'	637157.5035'
179	PC FOP	148+98.40'	46.720'	181524.8566'	637221.3159'
180	MID FOP	149+05.50'	45.704'	181531.9839'	637220.5116'
181	R=10.0',EOP	148+99.03'	-25.116'	181527.6208'	637149.5301'
182	PC EOP	148+99.05'	-15.116'	181527.3406'	637159.5262'
183	PT EOP	149+08.99'	-24.199'	181537.5469'	637150.7432'
184	PT EOP	149+12.02'	42.714'	181538.5896'	637217.7168'
185	PC EOP	149+14.36'	41.202'	181540.9718'	637216.2752'
186	BUTT JOINT	149+16.29'	-40.697'	181545.3351'	637134.4701'
187	PC EOP	149+23.54'	-24.140'	181552.0895'	637151.2346'
188	MID FOP	149+24.19'	38.024'	181550.8938'	637213.3906'
189	PT EOP	149+33.50'	-15.000'	181561.7762'	637160.6672'
190	R=10.0',EOP	149+33.50'	-25.000'	181562.0737'	637150.6717'
191	PT EOP	149+34.30'	40.177'	181560.9314'	637215.8432'
192	PC FOP	149+41.99'	44.097'	181568.5059'	637219.9903'
193	PT FOP	149+53.30'	46.821'	181579.7224'	637223.0494'
194	MID FOP	149+47.49'	46.125'	181573.9339'	637222.1810'
195	PC EOP	150+21.04'	14.981'	181648.3814'	637193.2391'
196	R=30.0',EOP	150+21.04'	44.981'	181647.4915'	637223.2259'
197	PT EOP, FOP	150+51.17'	47.000'	181677.5425'	637226.1402'
198	SAW CUT	150+63.92'	52.730'	181690.1165'	637232.2464'
199	PC EOP, FOP	150+76.57'	46.139'	181702.9597'	637226.0349'
200	PT EOP	151+06.55'	15.000'	181733.8511'	637195.8014'
201	R=30.0',EOP	151+06.55'	45.000'	181732.9587'	637225.7882'
202	MID FOP	151+29.11'	43.792'	181755.5448'	637225.2517'
203	PC FOP	151+20.35'	45.010'	181746.7580'	637226.2090'
204	PT FOP	151+37.41'	40.768'	181763.9366'	637222.4766'
205	PC FOP	151+59.90'	29.780'	181786.7408'	637212.1618'
206	PC EOP	151+72.26'	-15.000'	181800.4251'	637167.7695'
207	R=10.0',EOP	151+72.26'	-25.000'	181800.7226'	637157.7740'
208	PT FOP	151+82.73'	24.500'	181809.7181'	637207.5635'
209	MID FOP	151+71.01'	25.837'	181797.9670'	637208.5515'
210	PT EOP	151+82.25'	-25.297'	181810.7226'	637157.7740'
211	BUTT JOINT	151+89.40'	-31.409'	181818.0448'	637151.8776'
212	PC EOP	151+99.44'	-22.197'	181827.8045'	637161.3842'
213	PT EOP	152+09.03'	-15.000'	181837.1853'	637168.8635'
214	R=10.0',EOP	152+09.03'	-25.000'	181837.4828'	637158.8680'
215	PC EOP	152+55.07'	-15.000'	181883.2016'	637170.2330'
216	R=10.0',EOP	152+55.07'	-25.000'	181883.4991'	637160.2374'
217	PT EOP	152+65.06'	-25.364'	181893.4989'	637160.1709'
218	BUTT JOINT	152+71.52'	-31.334'	181900.1326'	637154.3952'
219	PC EOP	152+78.76'	-24.214'	181907.1585'	637161.7279'
220	PT EOP	152+88.73'	-15.000'	181916.8491'	637171.2344'
221	R=10.0',EOP	152+88.73'	-25.000'	181917.1465'	637161.2388'
222	FOP	153+00.00'	24.500'	181926.9357'	637211.0520'
223	MID FOP	153+29.76'	27.773'	181956.5852'	637215.2093'
224	PC FOP	153+11.60'	24.500'	181938.5321'	637211.3971'
225	PT,PC FOP	153+45.63'	37.182'	181972.1705'	637225.0858'
226	MID FOP	153+53.01'	42.132'	181979.3978'	637230.2531'

Point Number	Description	Station	Offset	Northing	Easting
227	PT FOP	153+58.99'	43.187'	181985.3466'	637231.4854'
228	MID FOP	153+96.71'	41.567'	182023.0986'	637230.9880'
229	PC FOP	153+88.72'	43.034'	182015.0638'	637232.2170'
230	PT FOP	154+03.71'	37.427'	182030.2139'	637227.0583'
231	FOP	155+06.88'	22.800'	182133.7770'	637215.5071'
232	PC FOP	154+12.51'	29.847'	182039.2409'	637219.7435'
233	PC FLANGE	154+16.10'	-15.000'	182044.1631'	637175.0233'
234	R=50.0',FLANGE	154+16.10'	-65.000'	182045.6504'	637125.0454'
235	FLANGE	154+17.34'	15.000'	182044.5074'	637205.0468'
236	SAWCUT	154+26.74'	0.000'	182054.3519'	637190.3332'
237	PT FOP	154+28.51'	23.796'	182055.4064'	637214.1707'
238	MID FOP	154+19.98'	25.411'	182046.8324'	637215.5321'
239	PT FLANGE	154+63.09'	-47.913'	182092.1110'	637143.5229'
240	BOP	155+12.59'	28.728'	182139.3075'	637221.6023'

2

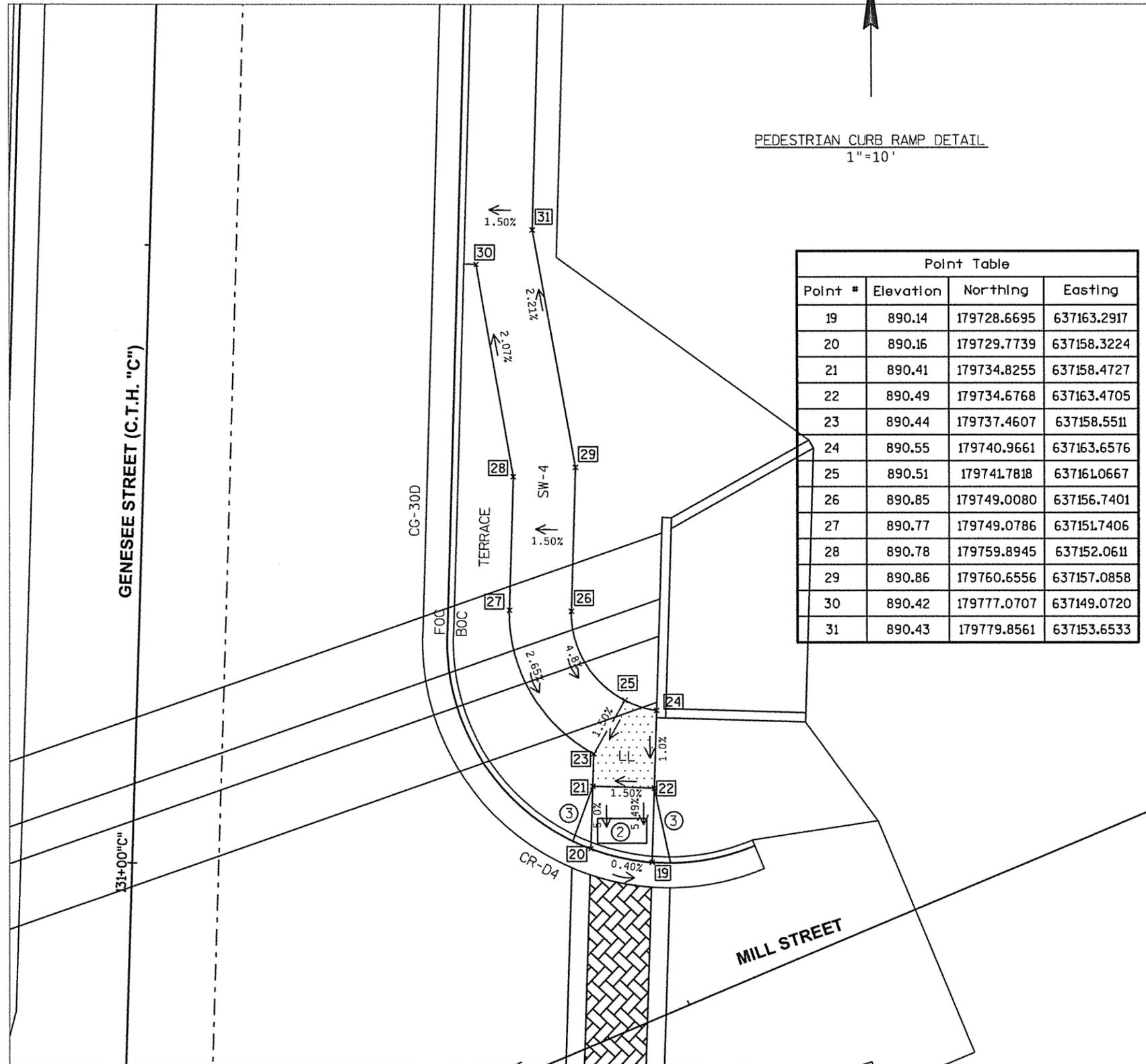


PEDESTRIAN CURB RAMP DETAIL
1"=10'

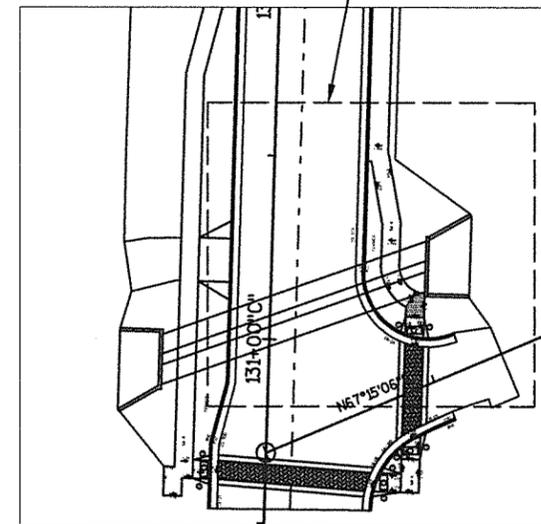
LEGEND

- CG-30D CONCRETE CURB & GUTTER 30-INCH TYPE D
- SW-4 CONCRETE SIDEWALK 6-INCH
- CR-# CURB RAMP NUMBER
-  LEVEL LANDING
- BOC BACK OF CURB
- FOC FACE OF CURB
-  GRADE CHANGE SHALL NOT EXCEED 11%
-  TAPER CURB HEAD AT SAME RATE AS APPROACH

Point Table			
Point #	Elevation	Northing	Easting
19	890.14	179728.6695	637163.2917
20	890.16	179729.7739	637158.3224
21	890.41	179734.8255	637158.4727
22	890.49	179734.6768	637163.4705
23	890.44	179737.4607	637158.5511
24	890.55	179740.9661	637163.6576
25	890.51	179741.7818	637161.0667
26	890.85	179749.0080	637156.7401
27	890.77	179749.0786	637151.7406
28	890.78	179759.8945	637152.0611
29	890.86	179760.6556	637157.0858
30	890.42	179777.0707	637149.0720
31	890.43	179779.8561	637153.6533



PEDESTRIAN CURB RAMP LOCATION



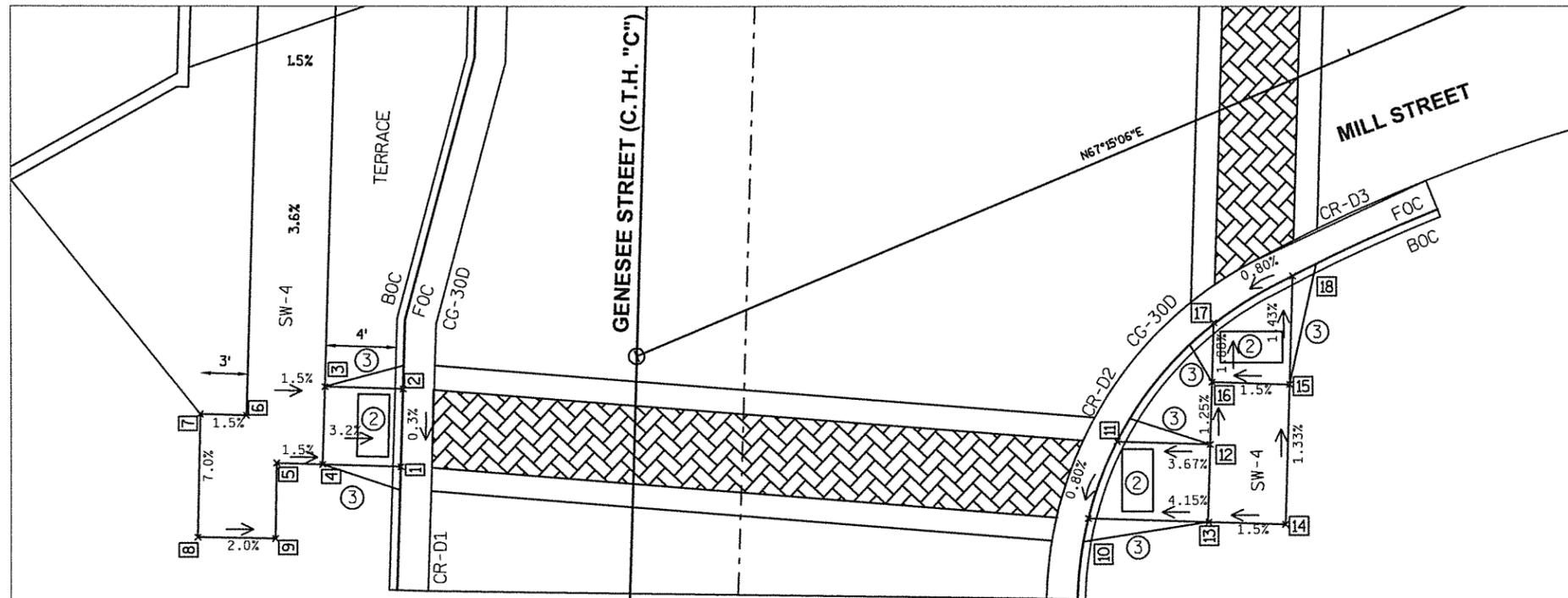
OVERVIEW MAP
1"=50'

PEDESTRIAN CURB RAMP DETAIL
1"=10'



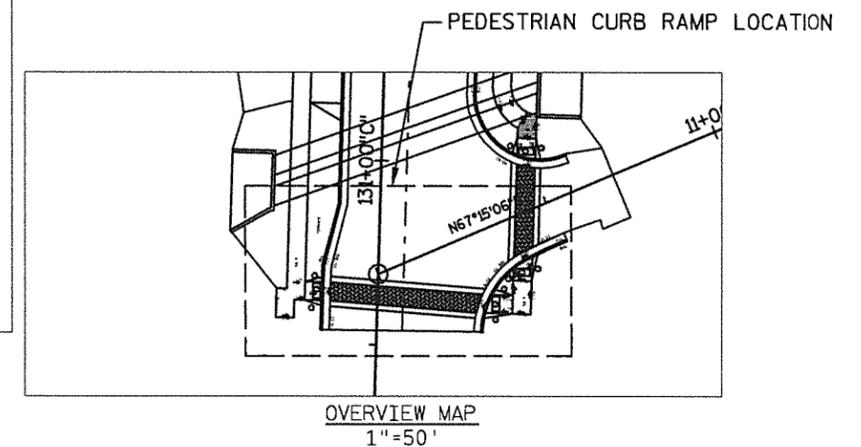
LEGEND

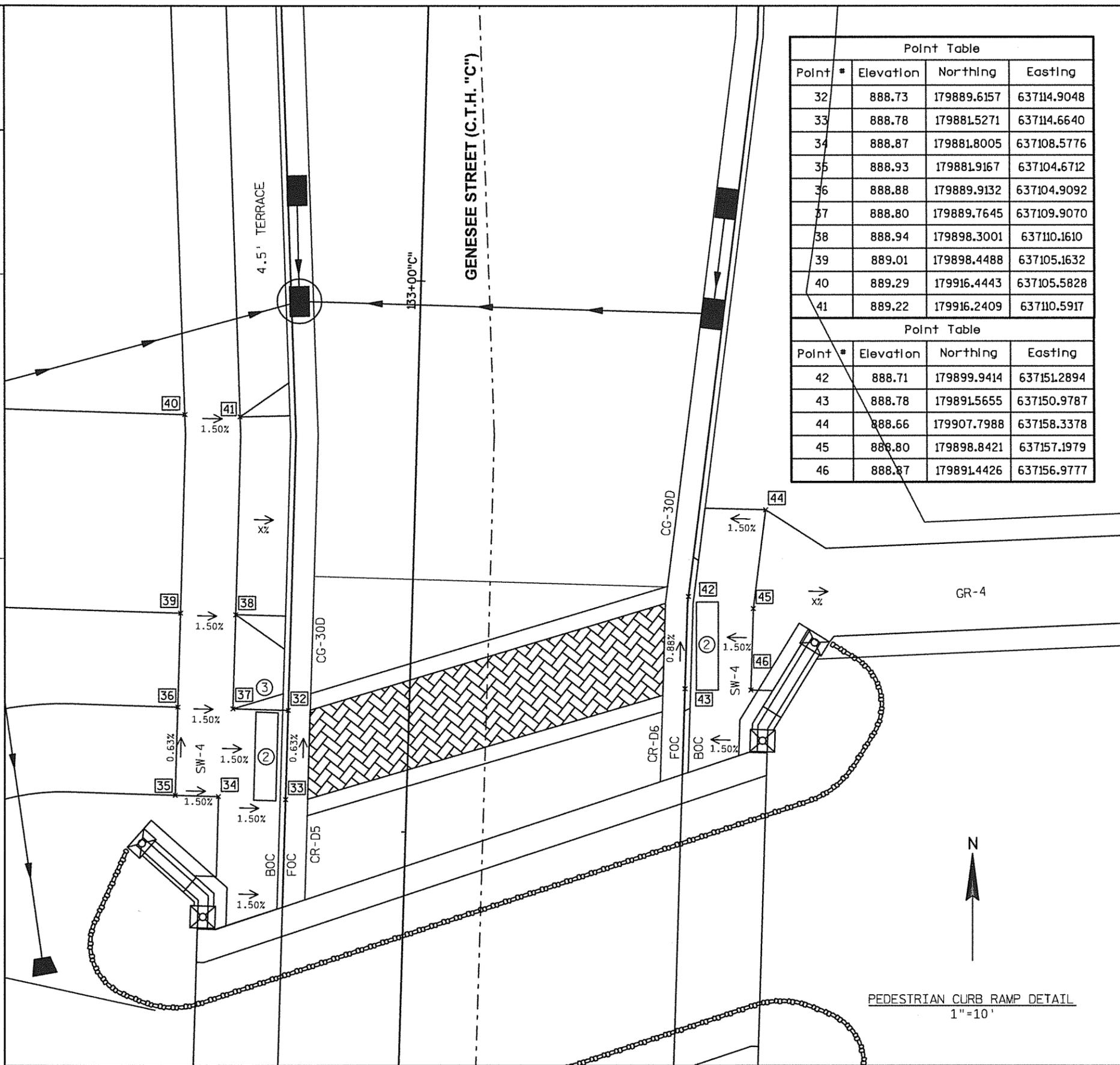
- CG-30D CONCRETE CURB & GUTTER 30-INCH TYPE D
- SW-4 CONCRETE SIDEWALK 6-INCH
- CR-# CURB RAMP NUMBER
- LL LEVEL LANDING
- BOC BACK OF CURB
- FOC FACE OF CURB
- ② GRADE CHANGE SHALL NOT EXCEED 11%
- ③ TAPER CURB HEAD AT SAME RATE AS APPROACH



Point Table			
Point #	Elevation	Northing	Easting
1	890.40	179690.7067	637104.9834
2	890.41	179695.7045	637105.1321
3	890.57	179695.8532	637100.1343
4	890.56	179690.8555	637099.9856
5	890.60	179690.9435	637097.0281
6	890.65	179694.0029	637095.0770
7	890.69	179694.0912	637092.1100
8	891.25	179686.1689	637091.9487
9	891.15	179686.0864	637096.9480

Point Table			
Point #	Elevation	Northing	Easting
10	890.22	179687.3863	637149.3214
11	890.26	179692.3329	637151.1914
12	890.48	179692.1544	637157.1889
13	890.54	179687.1548	637157.0995
14	890.62	179687.0081	637162.0313
15	890.50	179695.9998	637162.3109
16	890.43	179696.1552	637157.3133
17	890.36	179699.9613	637157.4287
18	890.40	179702.9751	637162.5278

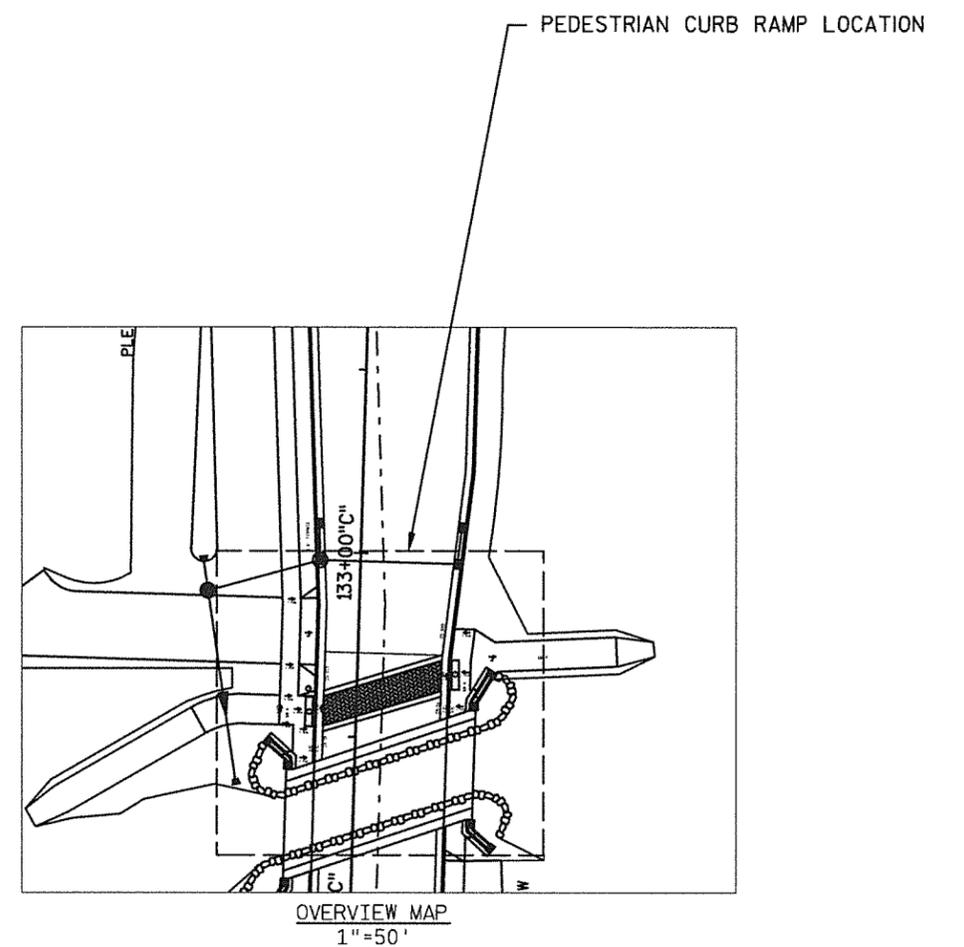




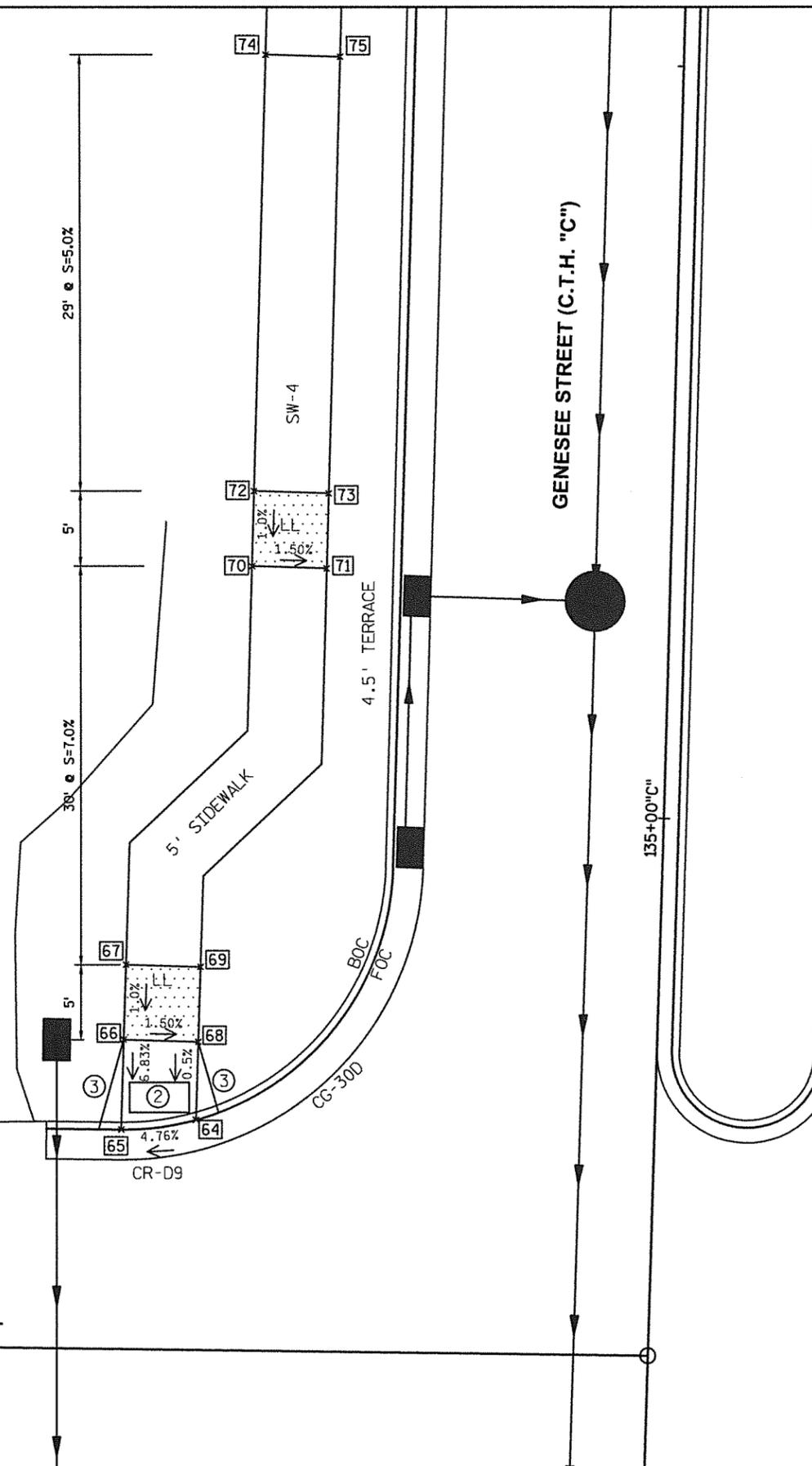
Point Table			
Point #	Elevation	Northing	Easting
32	888.73	179889.6157	637114.9048
33	888.78	179881.5271	637114.6640
34	888.87	179881.8005	637108.5776
35	888.93	179881.9167	637104.6712
36	888.88	179889.9132	637104.9092
37	888.80	179889.7645	637109.9070
38	888.94	179898.3001	637110.1610
39	889.01	179898.4488	637105.1632
40	889.29	179916.4443	637105.5828
41	889.22	179916.2409	637110.5917

Point Table			
Point #	Elevation	Northing	Easting
42	888.71	179899.9414	637151.2894
43	888.78	179891.5655	637150.9787
44	888.66	179907.7988	637158.3378
45	888.80	179898.8421	637157.1979
46	888.87	179891.4426	637156.9777

- LEGEND
- CG-30D CONCRETE CURB & GUTTER 30-INCH TYPE D
 - SW-4 CONCRETE SIDEWALK 6-INCH
 - CR-# CURB RAMP NUMBER
 - Level Landing Symbol LEVEL LANDING
 - BOC BACK OF CURB
 - FOC FACE OF CURB
 - ② GRADE CHANGE SHALL NOT EXCEED 11%
 - ③ TAPER CURB HEAD AT SAME RATE AS APPROACH



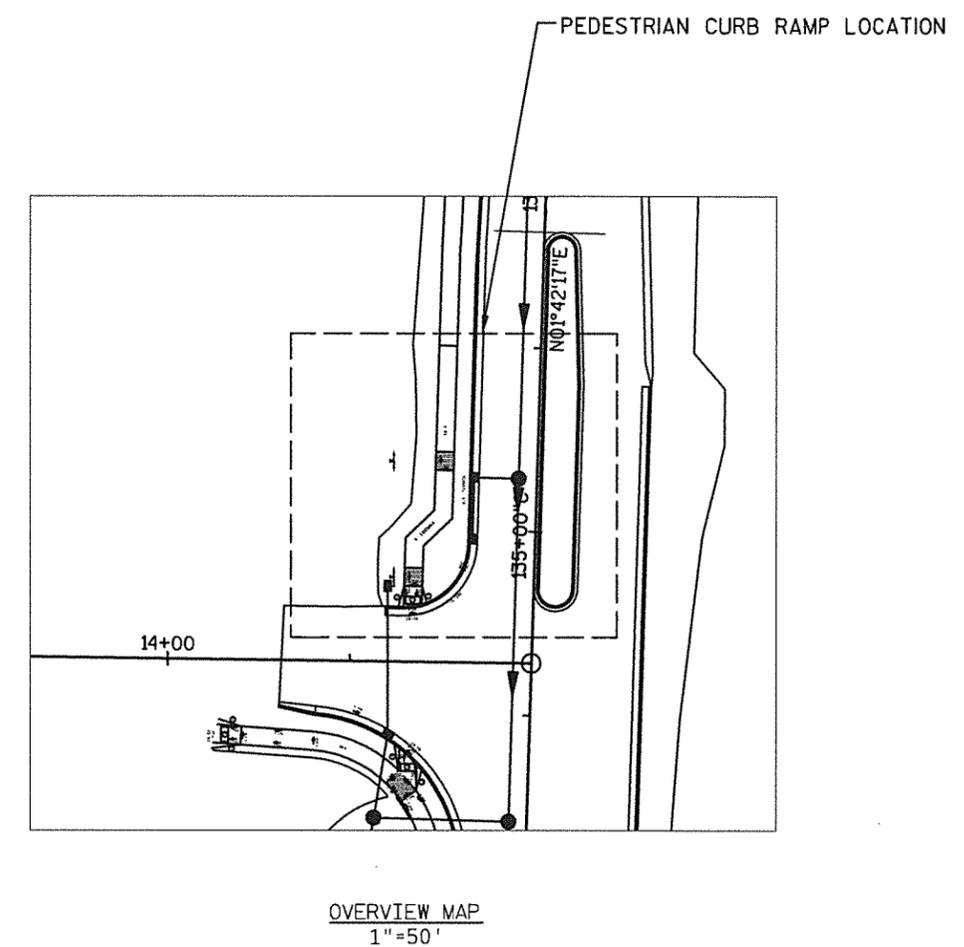
Point Table			
Point #	Elevation	Northing	Easting
64	890.20	180108.3607	637101.7083
65	889.75	180107.7136	637096.6955
66	890.16	180113.7123	637096.8654
67	890.21	180118.7101	637097.0141
68	890.11	180113.5636	637101.8632
69	890.16	180118.5614	637102.0119
70	992.28	180145.2807	637105.5059
71	992.20	180145.1320	637110.5037
72	992.33	180150.2785	637105.6547
73	992.25	180150.1298	637110.6525
74	993.68	180179.2226	637106.5161
75	993.61	180179.0827	637111.5141



- LEGEND**
- CG-300 CONCRETE CURB & GUTTER 30-INCH TYPE D
 - SW-4 CONCRETE SIDEWALK 6-INCH
 - CR-# CURB RAMP NUMBER
 - LEVEL LANDING
 - BOC BACK OF CURB
 - FOC FACE OF CURB
 - ② GRADE CHANGE SHALL NOT EXCEED 11%
 - ③ TAPER CURB HEAD AT SAME RATE AS APPROACH



PEDESTRIAN CURB RAMP DETAIL
1"=10'

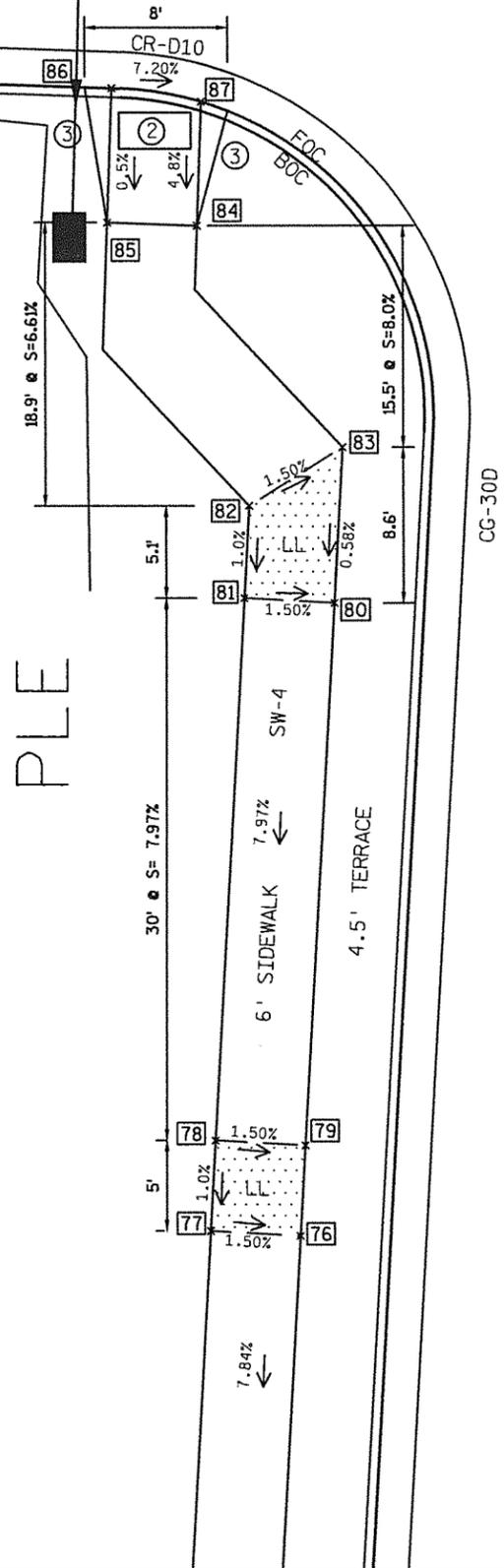


CHURCH STREET

GENESEE STREET (C.T.H. "C")

Point Table			
Point #	Elevation	Northing	Easting
76	899.06	180299.5032	637117.4121
77	899.15	180299.7754	637112.4196
78	899.15	180304.7680	637112.6918
79	899.15	180304.4958	637117.6843
80	901.45	180334.5109	637119.3208
81	901.54	180334.7831	637114.3282
82	901.59	180339.8910	637114.6067
83	901.50	180343.1348	637119.7910
84	902.76	180355.3857	637111.7328
85	902.84	180355.5618	637106.7359
86	902.28	180362.9695	637106.9970
87	902.44	180362.2254	637111.9738

PLE



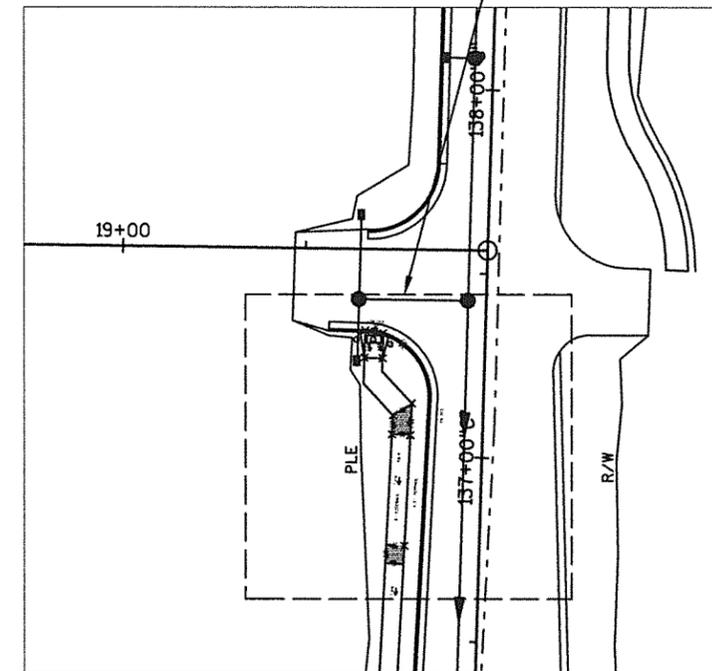
LEGEND

- CG-30D CONCRETE CURB & GUTTER 30-INCH TYPE D
- SW-4 CONCRETE SIDEWALK 6-INCH
- CR-# CURB RAMP NUMBER
- LL LEVEL LANDING
- BOC BACK OF CURB
- FOC FACE OF CURB
- ② GRADE CHANGE SHALL NOT EXCEED 11%
- ③ TAPER CURB HEAD AT SAME RATE AS APPROACH

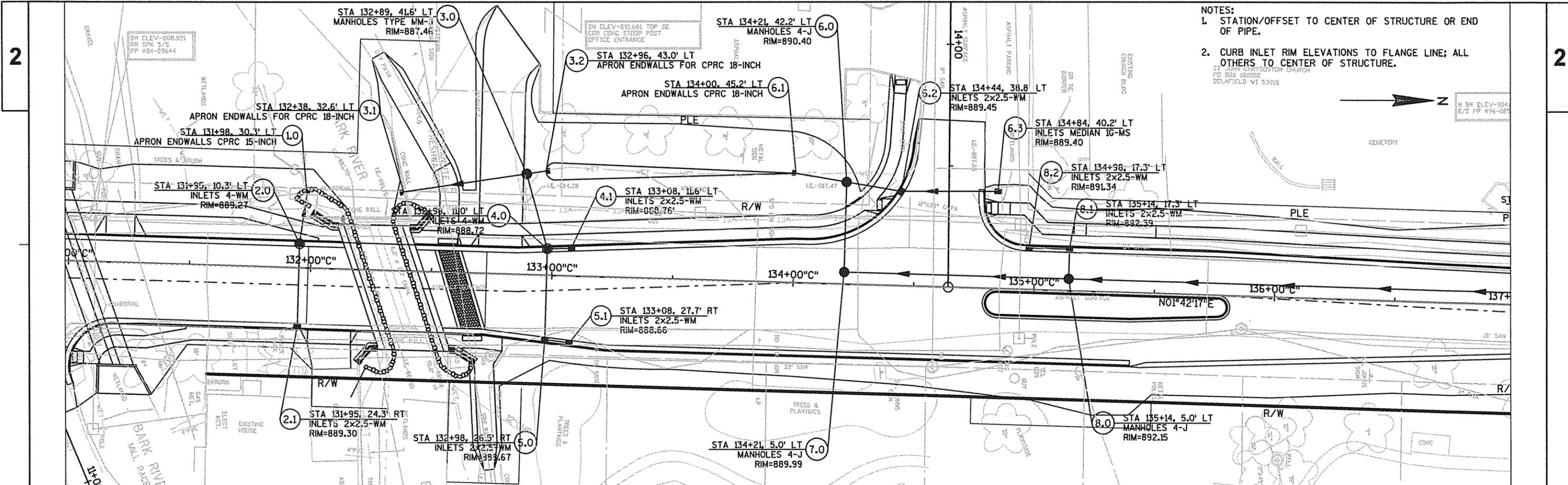


PEDESTRIAN CURB RAMP DETAIL
1"=10'

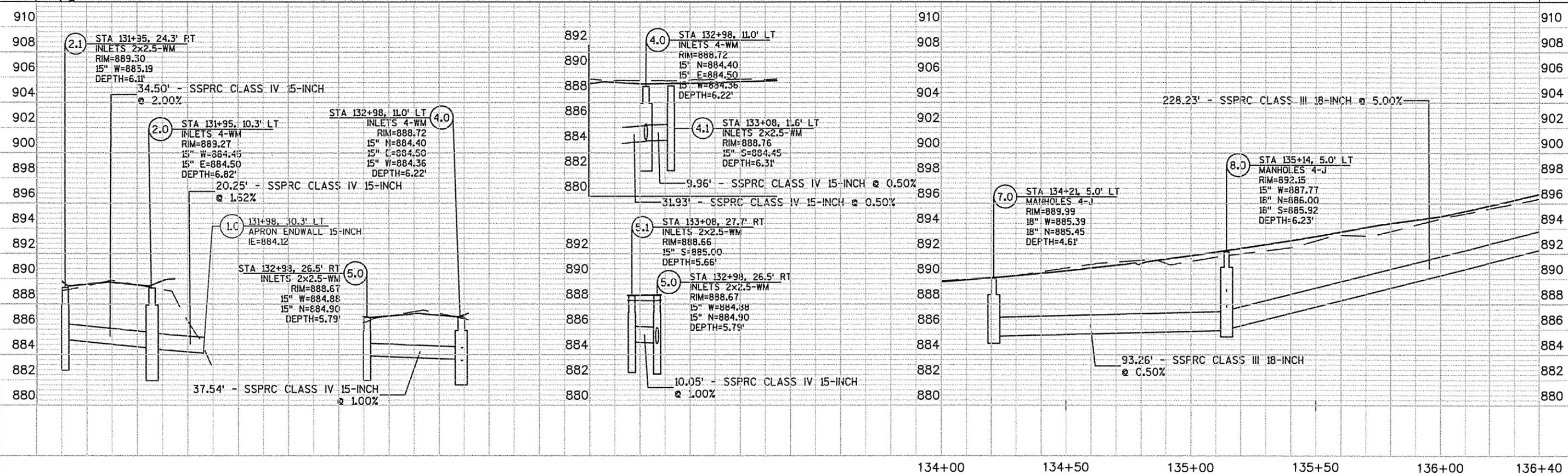
PEDESTRIAN CURB RAMP LOCATION

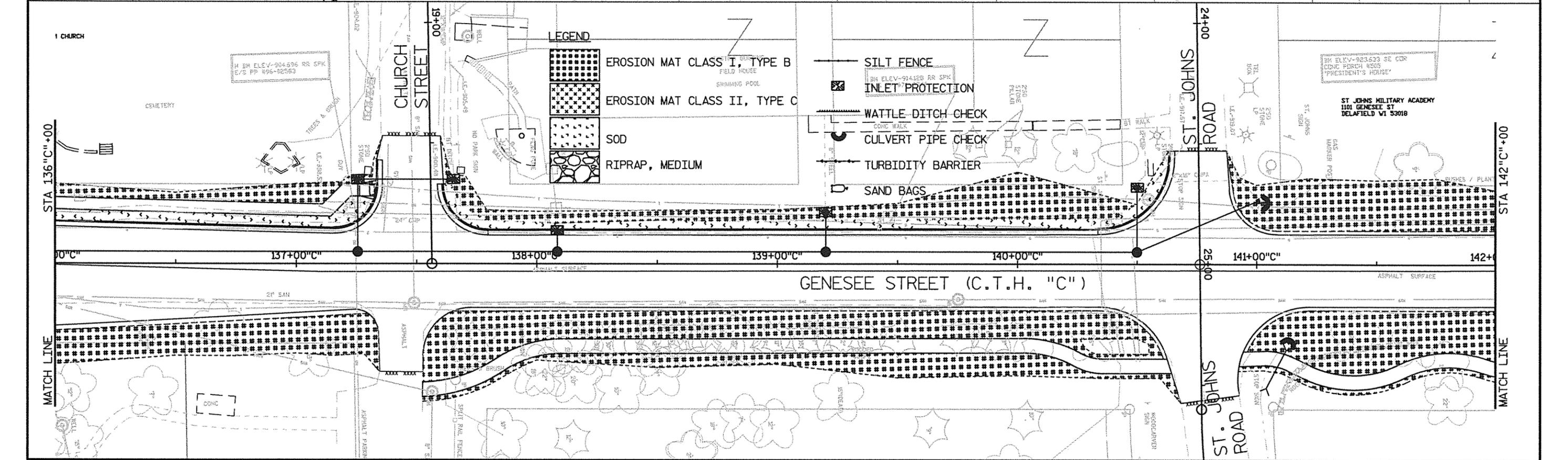
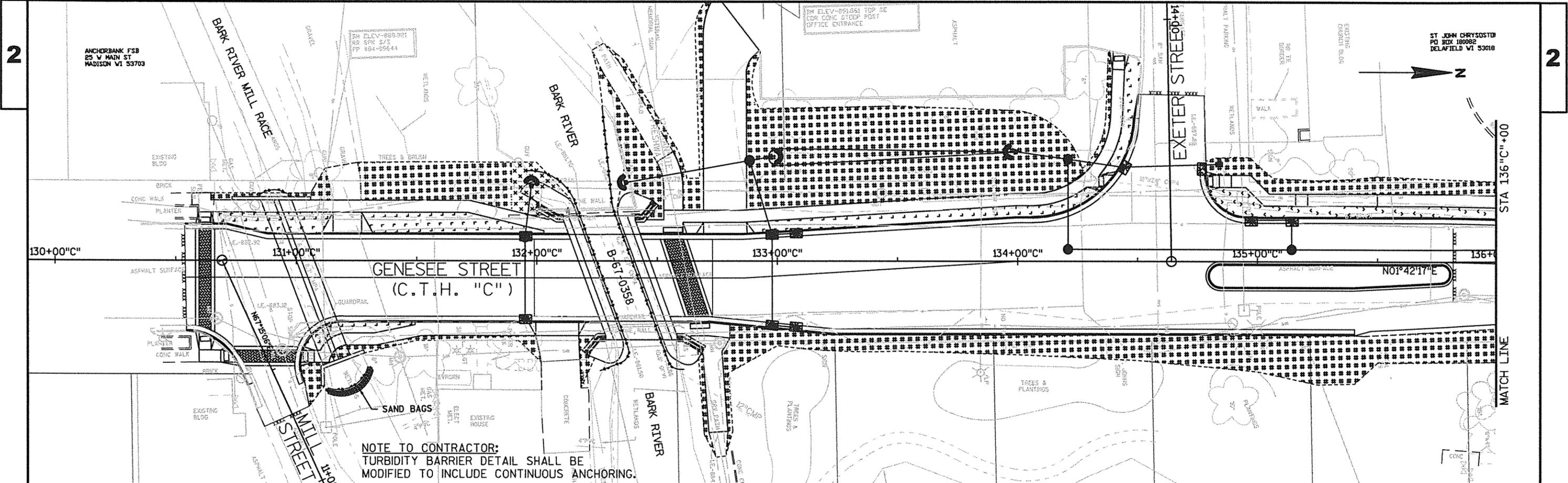


OVERVIEW MAP
1"=50'



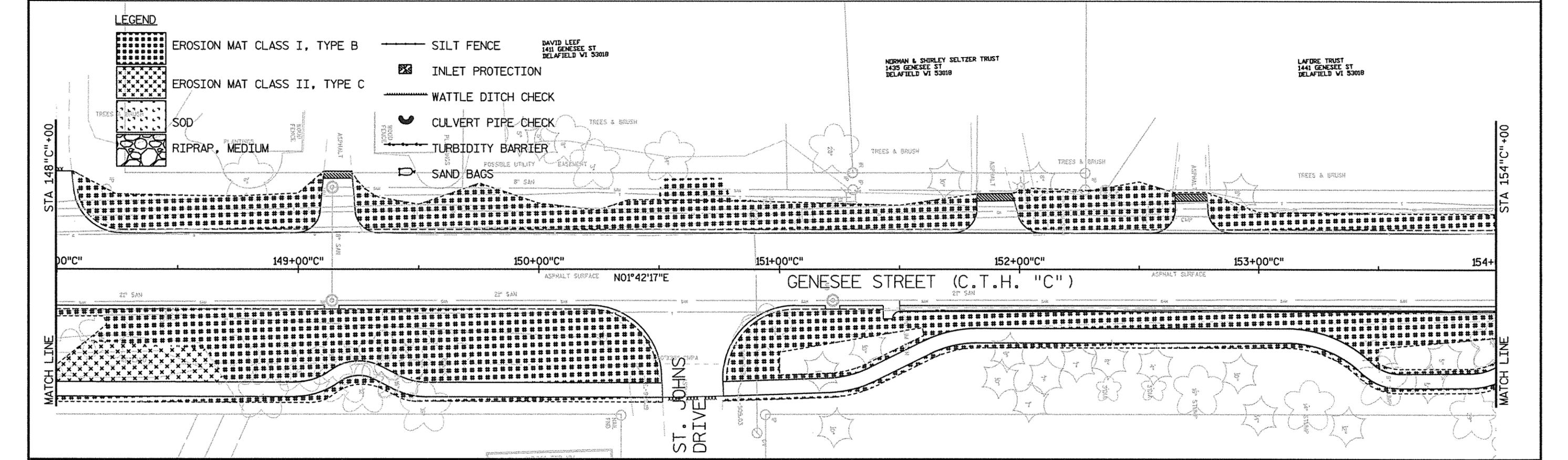
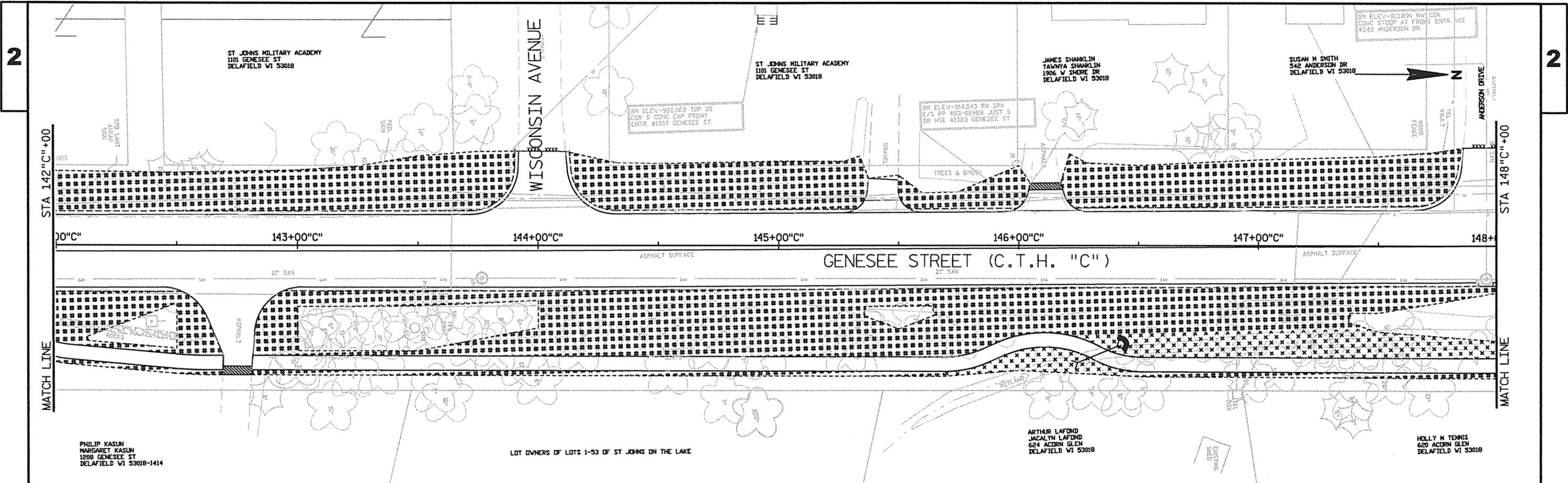
NOTES:
 1. STATION/OFFSET TO CENTER OF STRUCTURE OR END OF PIPE.
 2. CURB INLET RIM ELEVATIONS TO FLANGE LINE; ALL OTHERS TO CENTER OF STRUCTURE.





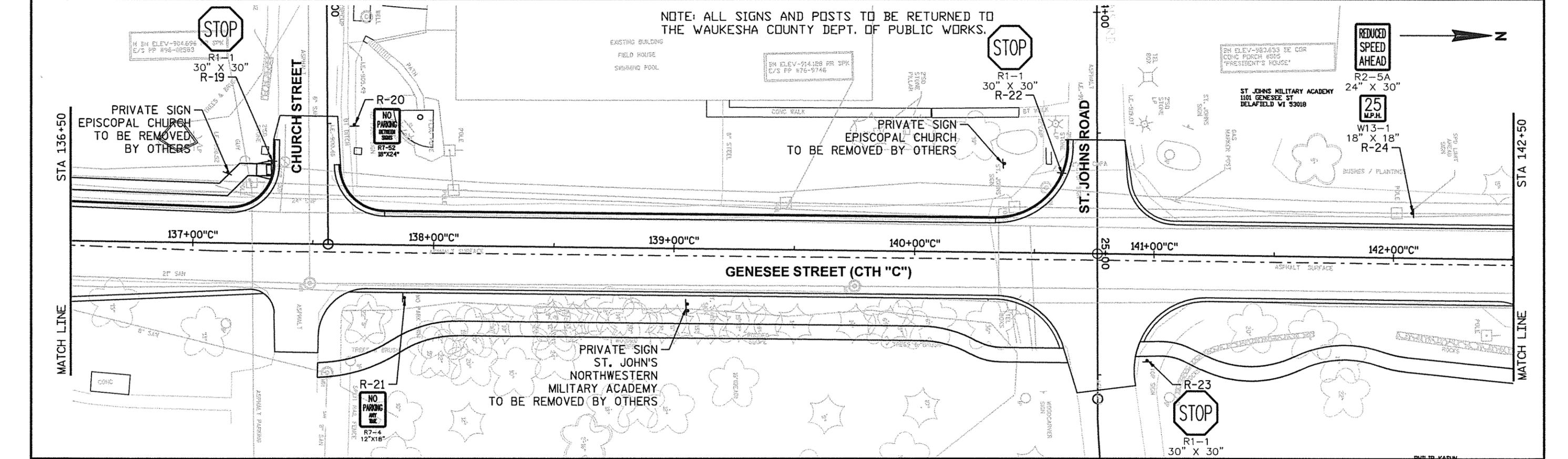
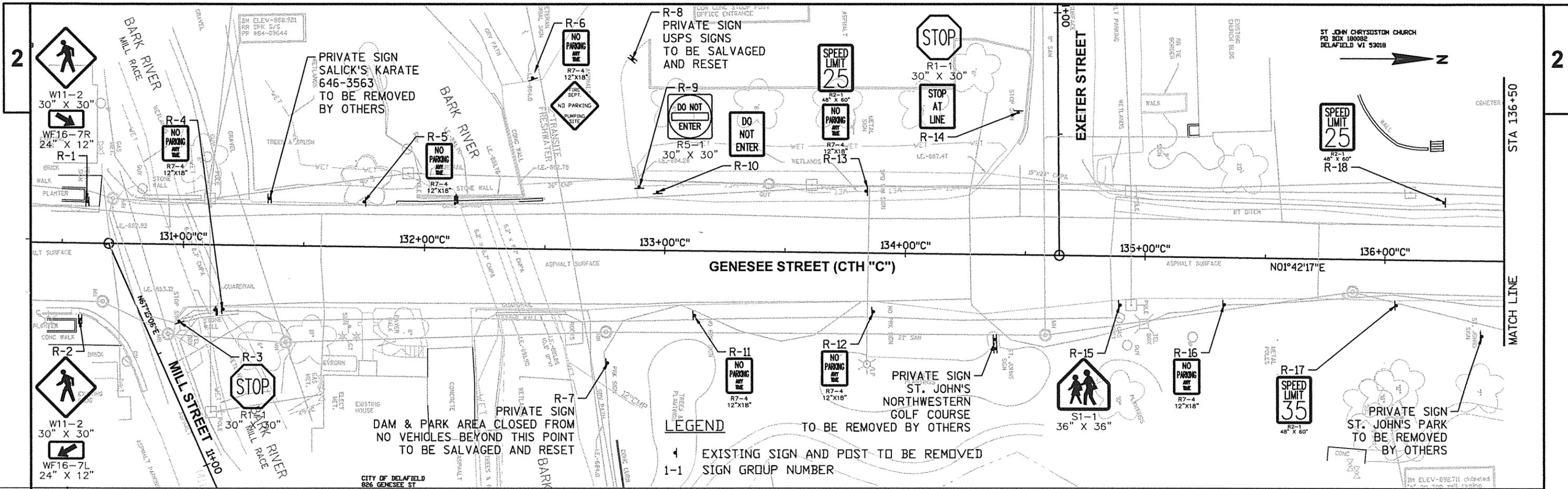
PROJECT NO:14-3775(11)	HWY: CTH "C"	COUNTY: WAUKESHA	EROSION CONTROL DETAILS	SHEET	E
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FILE NAME : S:\CAD PROJECTS\409-14 CTH C\SH14-3775 (11) SHEET EROSION CONTROL.DWG PLOT DATE : 7/14/2015 2:56 PM PLOT BY : ALI M. ROTH PLOT NAME : PLOT SCALE : 1:40.XREF WISDOT/CADD SHEET 42

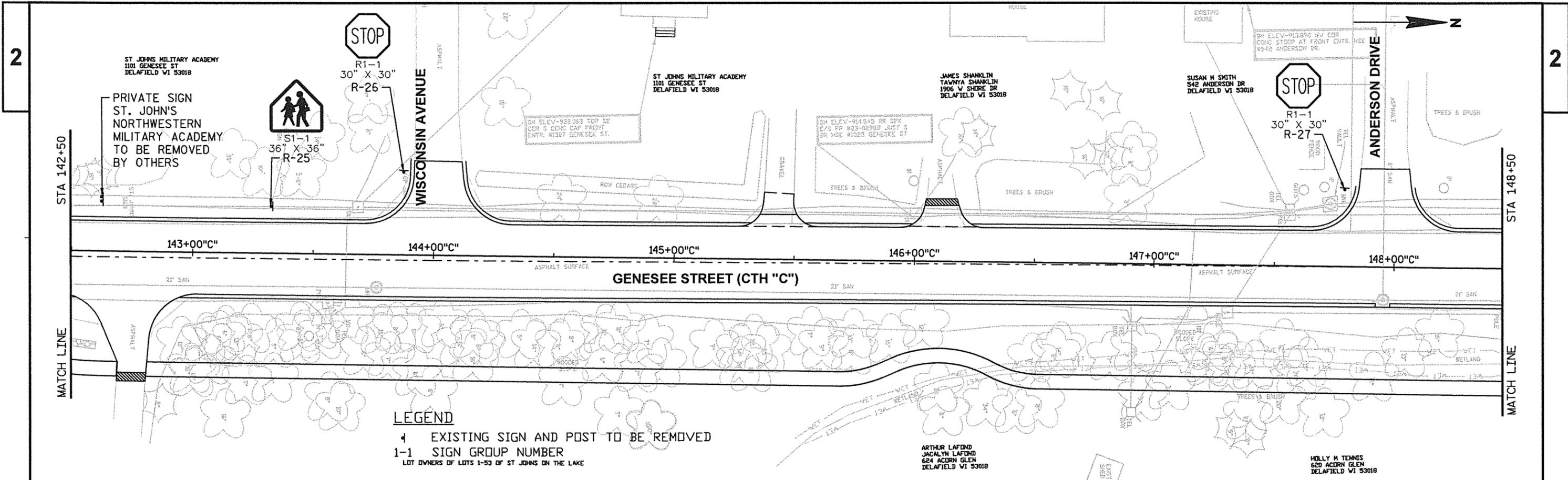


PROJECT NO:14-3775(11) HWY: CTH "C" COUNTY: WAUKESHA EROSION CONTROL DETAILS SHEET E

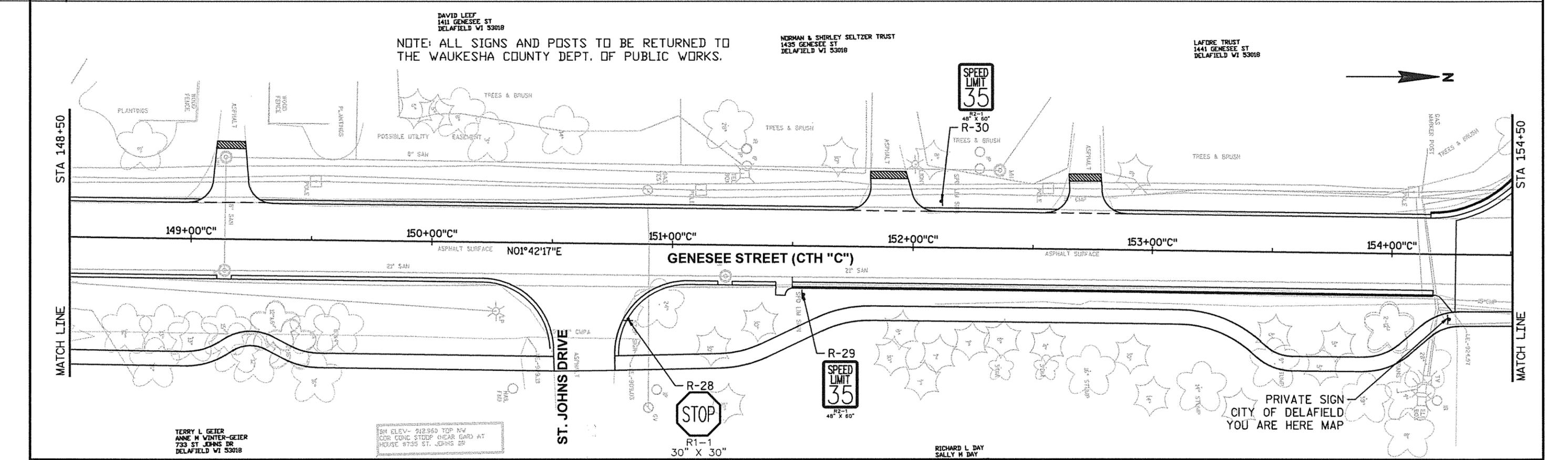
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PROJECT NO: 14-3775(11) HWY: CTH "C" COUNTY: WAUKESHA SIGN REMOVAL PLAN SHEET E

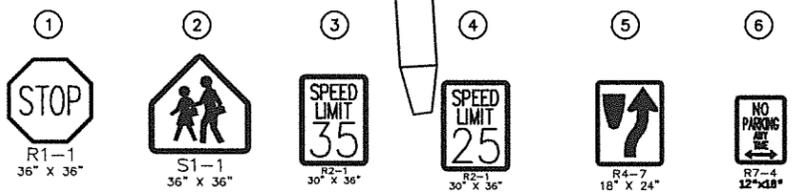
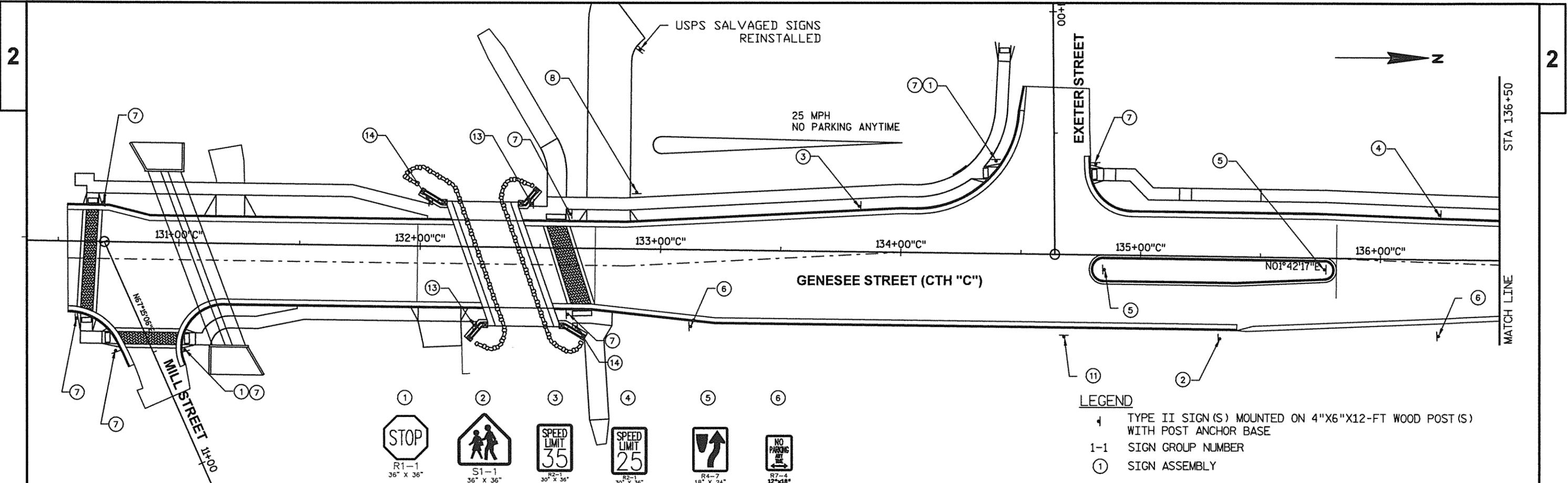


LEGEND
 4 EXISTING SIGN AND POST TO BE REMOVED
 1-1 SIGN GROUP NUMBER
 LOT OWNERS OF LOTS 1-53 OF ST JOHNS ON THE LAKE



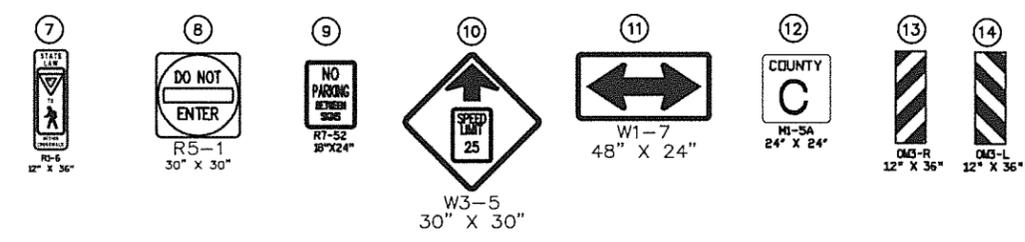
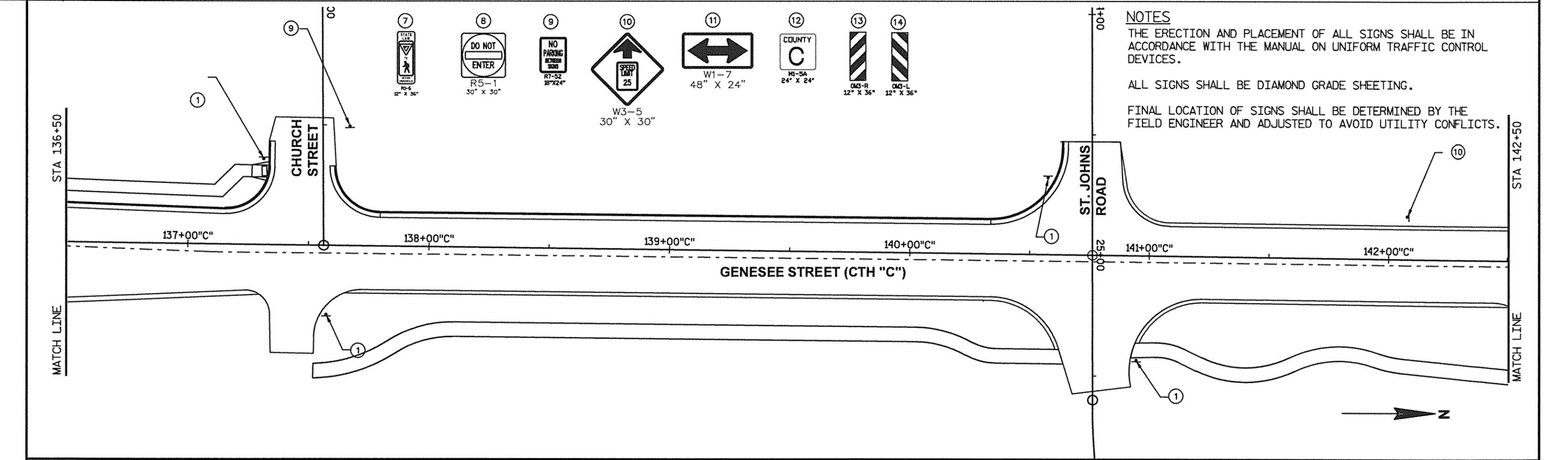
NOTE: ALL SIGNS AND POSTS TO BE RETURNED TO THE WAUKESHA COUNTY DEPT. OF PUBLIC WORKS.

PROJECT NO: 14-3775(11) HWY: CTH "C" COUNTY: WAUKESHA SIGN REMOVAL PLAN SHEET E



LEGEND

- 4 TYPE II SIGN(S) MOUNTED ON 4"X6"X12-FT WOOD POST(S) WITH POST ANCHOR BASE
- 1-1 SIGN GROUP NUMBER
- ① SIGN ASSEMBLY

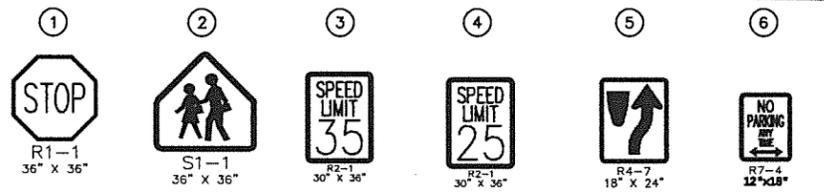
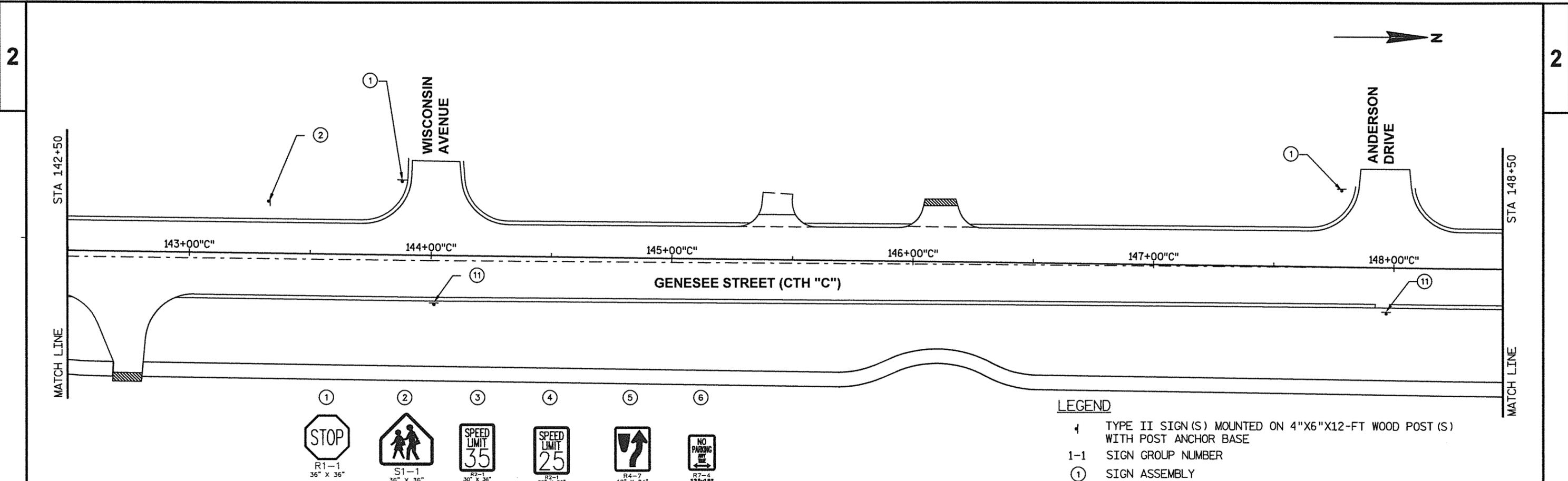


NOTES

THE ERECTION AND PLACEMENT OF ALL SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL SIGNS SHALL BE DIAMOND GRADE SHEETING.

FINAL LOCATION OF SIGNS SHALL BE DETERMINED BY THE FIELD ENGINEER AND ADJUSTED TO AVOID UTILITY CONFLICTS.

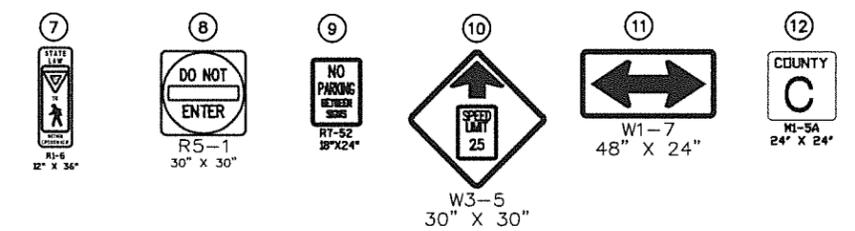


LEGEND

4 TYPE II SIGN(S) MOUNTED ON 4"X6"X12-FT WOOD POST(S) WITH POST ANCHOR BASE

1-1 SIGN GROUP NUMBER

① SIGN ASSEMBLY

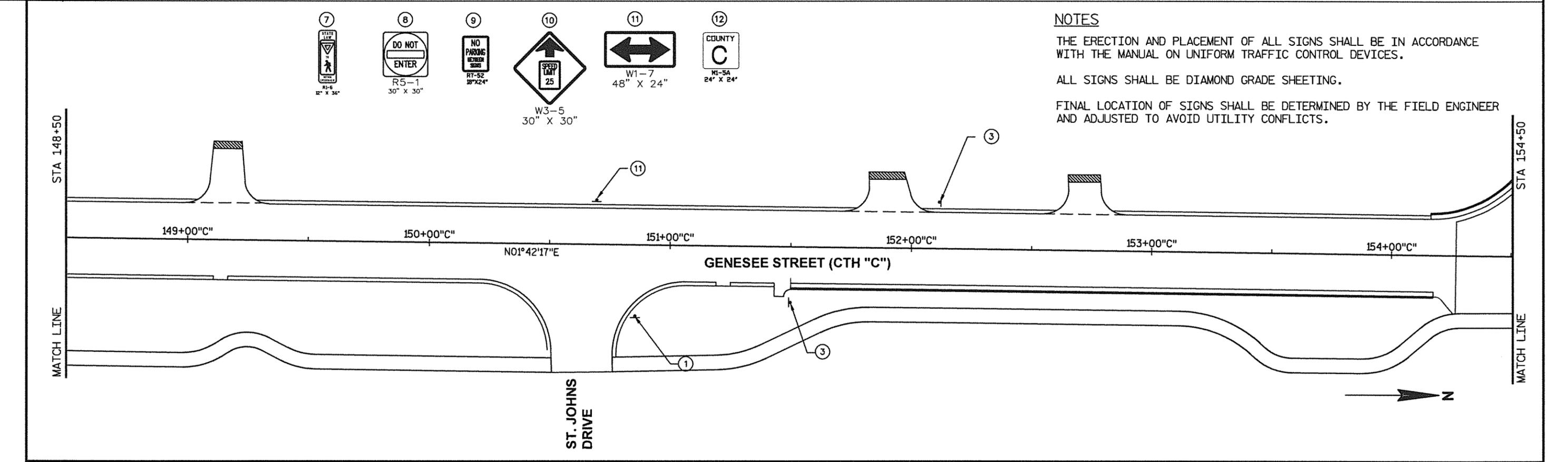


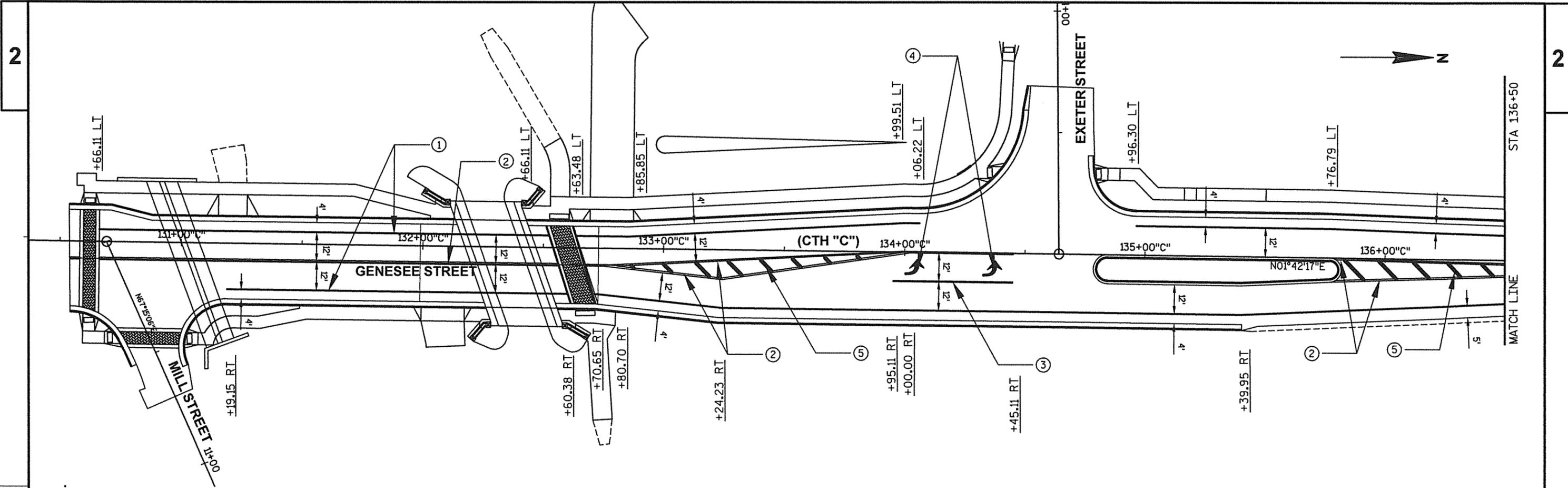
NOTES

THE ERECTION AND PLACEMENT OF ALL SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL SIGNS SHALL BE DIAMOND GRADE SHEETING.

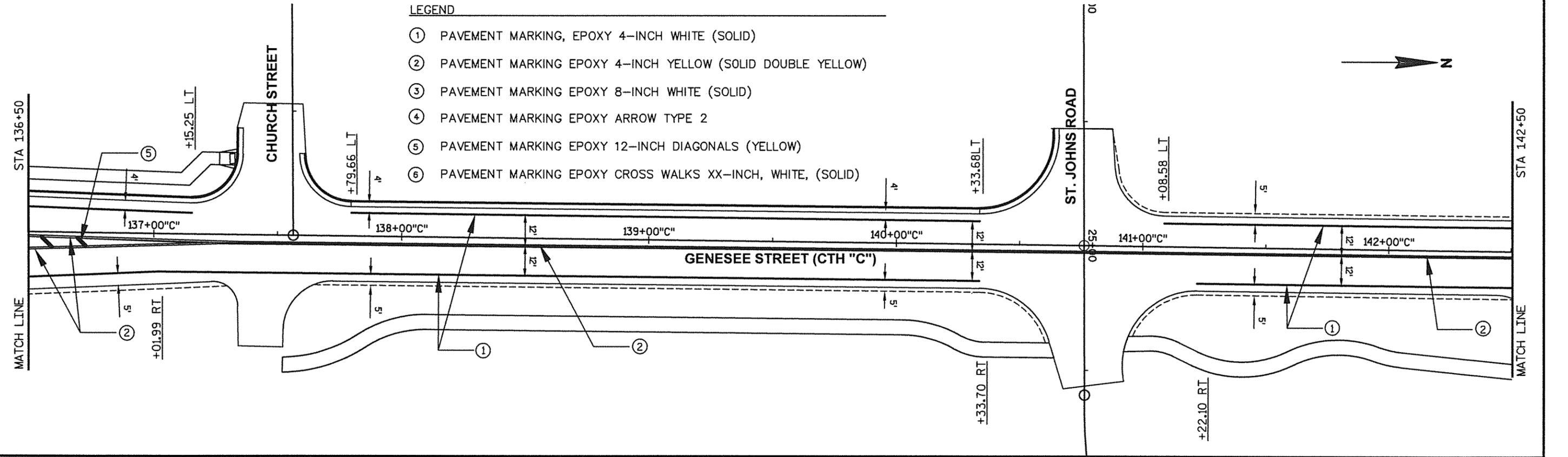
FINAL LOCATION OF SIGNS SHALL BE DETERMINED BY THE FIELD ENGINEER AND ADJUSTED TO AVOID UTILITY CONFLICTS.





LEGEND

- ① PAVEMENT MARKING, EPOXY 4-INCH WHITE (SOLID)
- ② PAVEMENT MARKING EPOXY 4-INCH YELLOW (SOLID DOUBLE YELLOW)
- ③ PAVEMENT MARKING EPOXY 8-INCH WHITE (SOLID)
- ④ PAVEMENT MARKING EPOXY ARROW TYPE 2
- ⑤ PAVEMENT MARKING EPOXY 12-INCH DIAGONALS (YELLOW)
- ⑥ PAVEMENT MARKING EPOXY CROSS WALKS XX-INCH, WHITE, (SOLID)



PROJECT NO:14-3775(11)

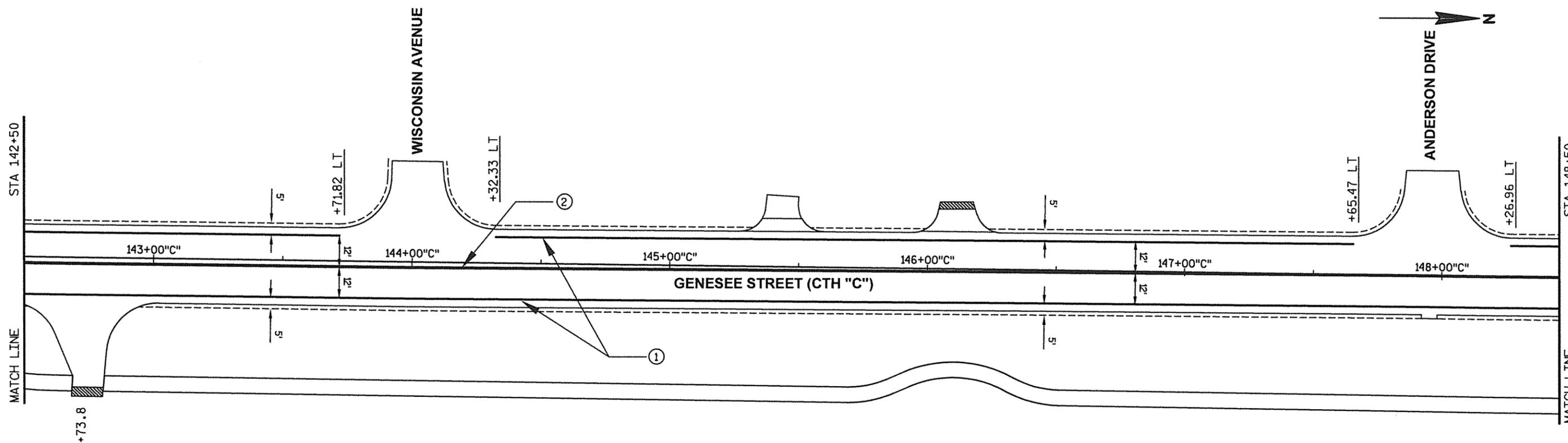
HWY: CTH "C"

COUNTY: WAUKESHA

PAVEMENT MARKING

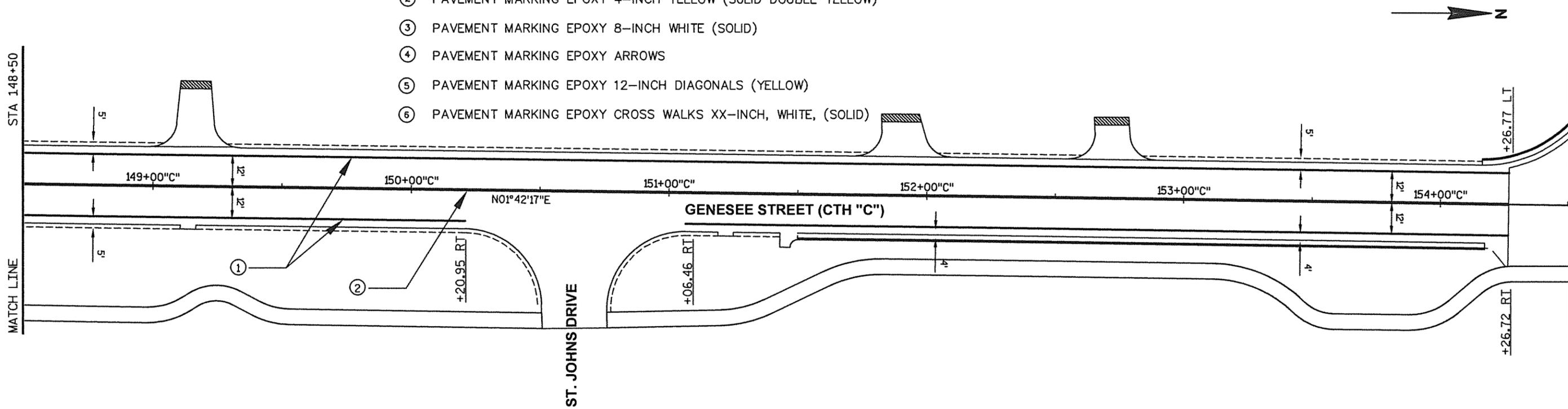
SHEET

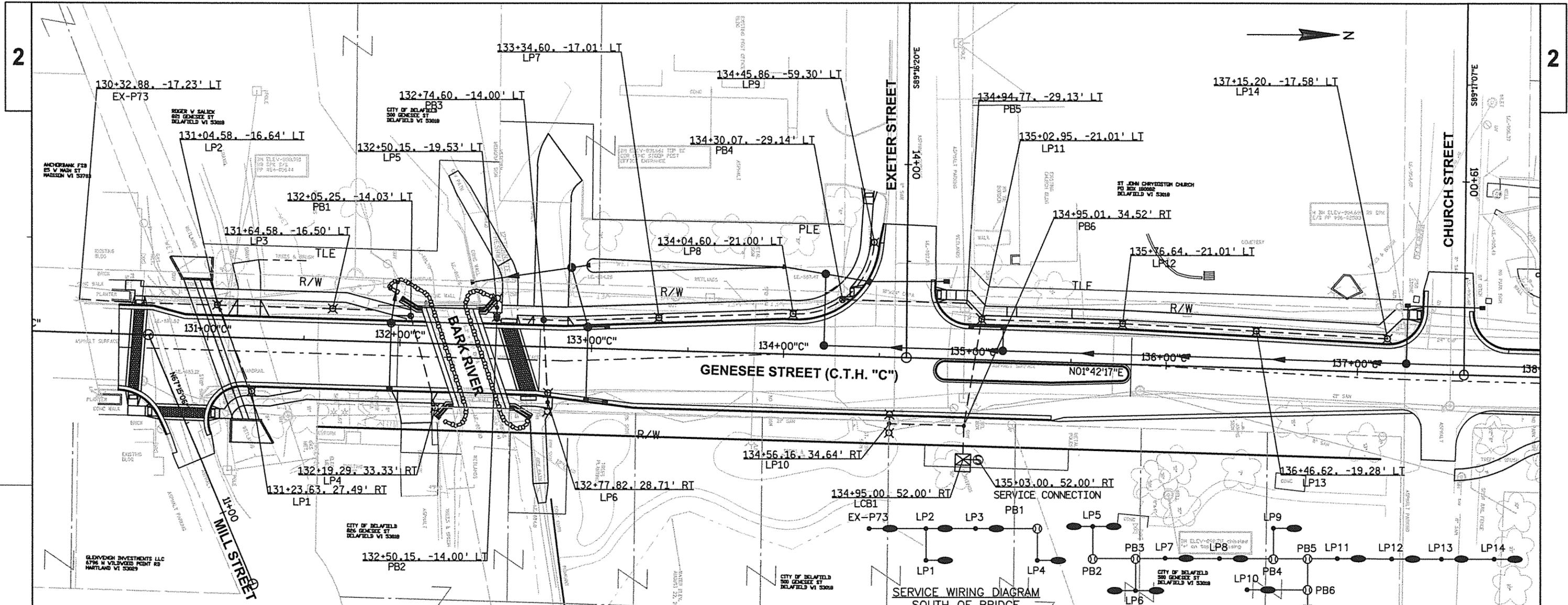
E



LEGEND

- ① PAVEMENT MARKING, EPOXY 4-INCH WHITE (SOLID)
- ② PAVEMENT MARKING EPOXY 4-INCH YELLOW (SOLID DOUBLE YELLOW)
- ③ PAVEMENT MARKING EPOXY 8-INCH WHITE (SOLID)
- ④ PAVEMENT MARKING EPOXY ARROWS
- ⑤ PAVEMENT MARKING EPOXY 12-INCH DIAGONALS (YELLOW)
- ⑥ PAVEMENT MARKING EPOXY CROSS WALKS XX-INCH, WHITE, (SOLID)

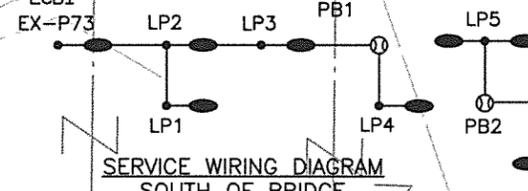




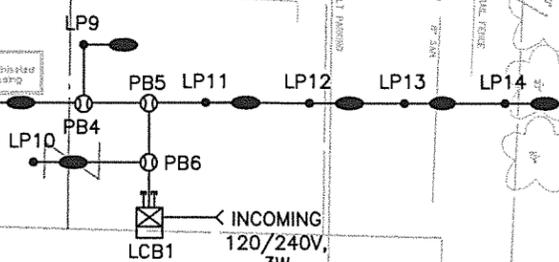
LIGHTING PLAN LEGEND

- SINGLE LIGHTING UNIT: 12' CONCRETE POLE, LED LUMINAIRE, FLAG HOLDER, (2) BANNER HOLDERS, (2) LADDERS RESTS, TYPE 1 MODIFIED CONCRETE BASE
- TWIN LIGHTING UNIT: 12' CONCRETE POLE, (2) LED LUMINAIRE WITH MOUNTING BRACKET, FLAG HOLDER, (2) BANNER HOLDERS, (2) LADDERS RESTS, TYPE 1 MODIFIED CONCRETE BASE
- LIGHTING CONTROL CABINET
- PULL BOX (STEEL 24 X 42-INCH)
- SERVICE CONNECTION
- CONDUIT RIGID NONMETALLIC 2-INCH WITH 2-12 AWG & 1-8 AWG GROUND
- CONDUIT STUBOUT CAPPED
- 50+20, 10' RT STATION (LOCATION)
LP# (1-#)
- CIRCUIT NUMBER
- POLE NUMBER

SERVICE WIRING DIAGRAM SOUTH OF BRIDGE
CIRCUIT #1

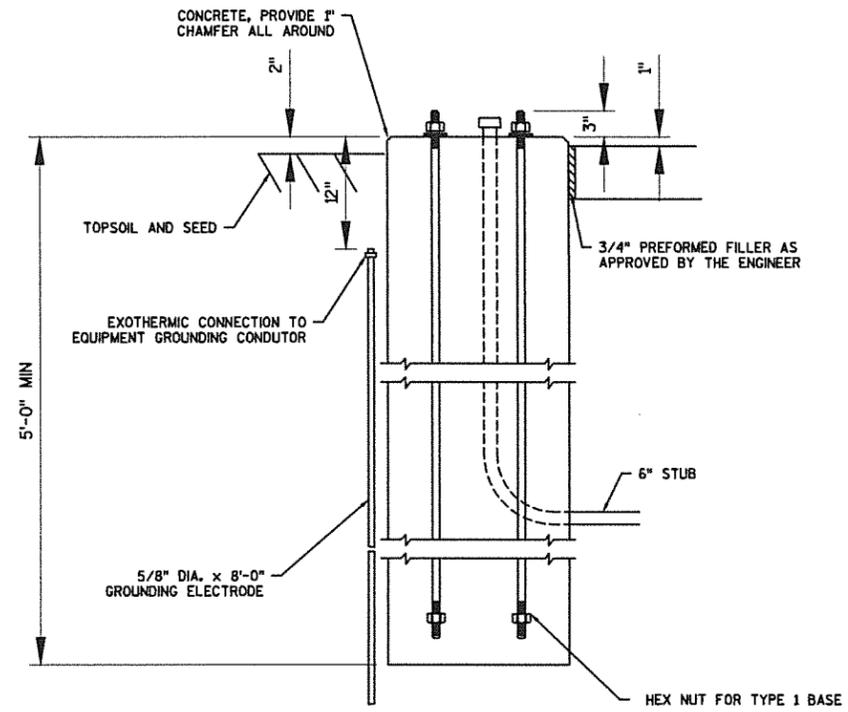
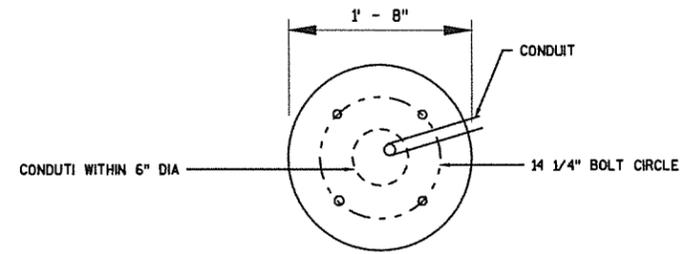
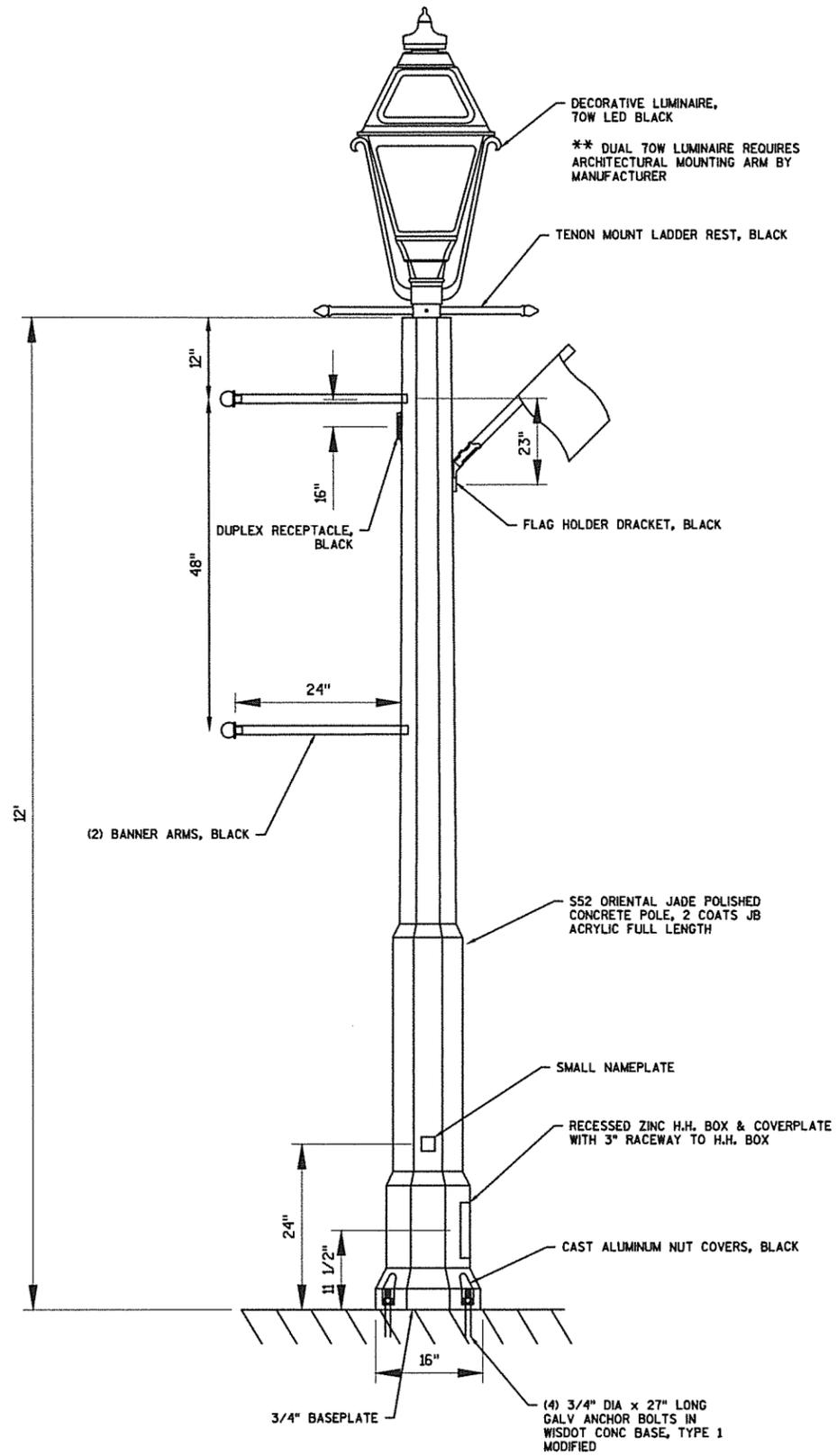


SERVICE WIRING DIAGRAM NORTH OF BRIDGE
CIRCUIT #2

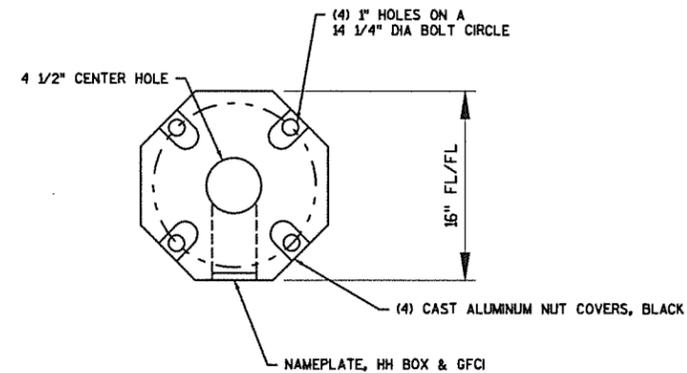


NOTES:

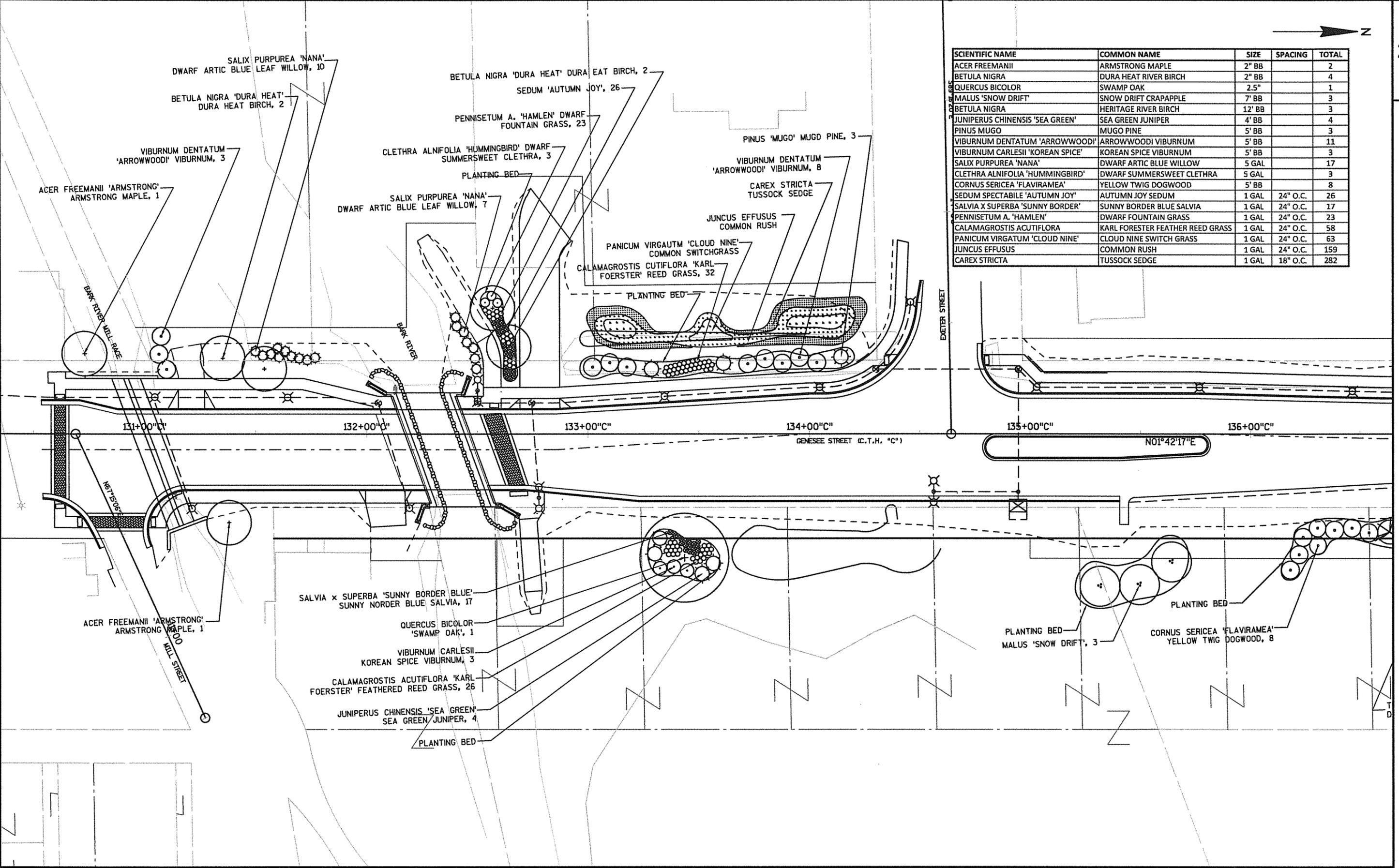
1. THE ENGINEER WILL APPROVE THE FINAL LOCATION OF ALL CONCRETE BASES AND PULL BOXES IN THE FIELD PRIOR TO CONSTRUCTION.
2. 2" DRAIN DUCT TO DITCH OR STORM SEWER REQUIRED FOR ALL PULL BOXES. THIS 2" DRAIN DUCT IS INCIDENTAL TO THE PULL BOX BID ITEM.
3. THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. IN ADDITION, THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.
4. CONSTRUCT ALL CONCRETE BASES WITH ANCHOR BOLTS PARALLEL TO THE ADJACENT CURB.
5. ALL CONDUIT SHALL BE 2" RIGID NON-METALLIC SCHEDULE 40 2-INCH, WITH 2#6, 1#6 GRD CONDUCTORS



WISDOT CONCRETE BASE, TYPE 1 MODIFIED

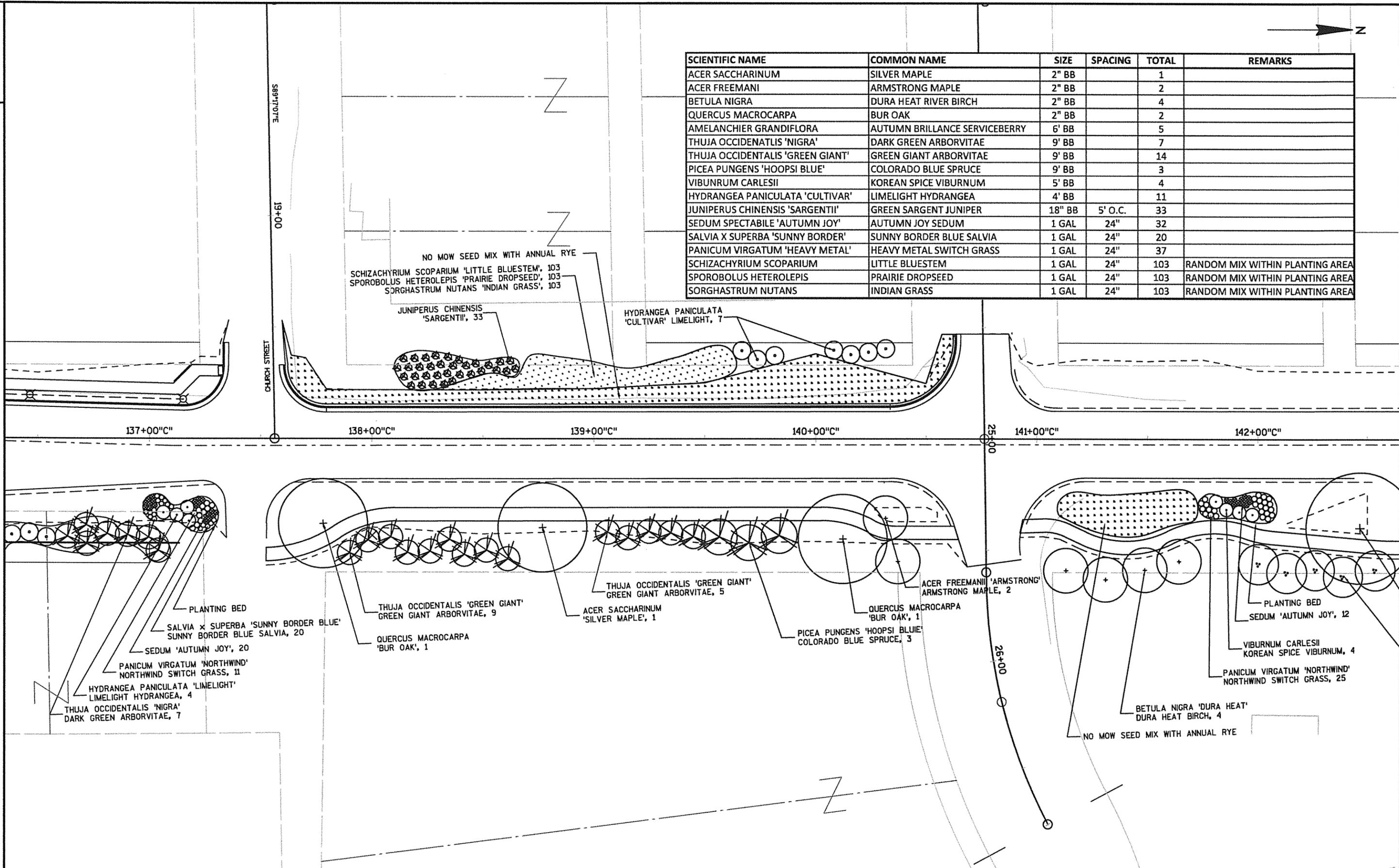


BASEPLATE DETAIL 3/4" GALV STEEL



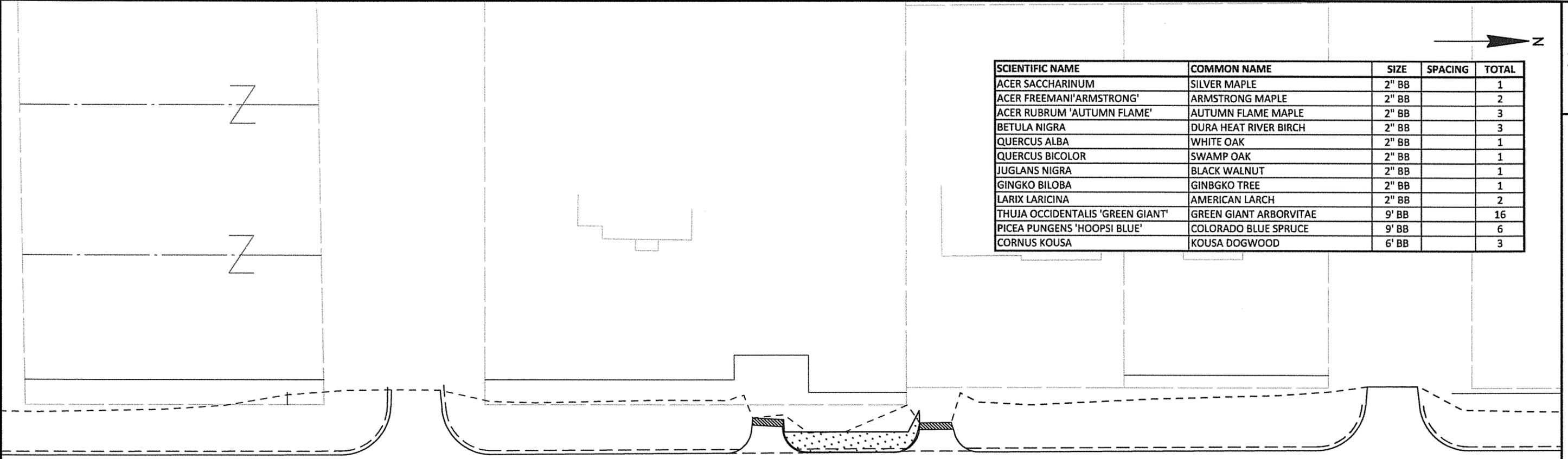
SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	TOTAL
ACER FREEMANII	ARMSTRONG MAPLE	2" BB		2
BETULA NIGRA	DURA HEAT RIVER BIRCH	2" BB		4
QUERCUS BICOLOR	SWAMP OAK	2.5"		1
MALUS 'SNOW DRIFT'	SNOW DRIFT CRAPAPPLE	7" BB		3
BETULA NIGRA	HERITAGE RIVER BIRCH	12" BB		3
JUNIPERUS CHINENSIS 'SEA GREEN'	SEA GREEN JUNIPER	4" BB		4
PINUS MUGO	MUGO PINE	5" BB		3
VIBURNUM DENTATUM 'ARROWWOOD'	ARROWWOOD VIBURNUM	5" BB		11
VIBURNUM CARLESII 'KOREAN SPICE'	KOREAN SPICE VIBURNUM	5" BB		3
SALIX PURPUREA 'NANA'	DWARF ARTIC BLUE WILLOW	5 GAL		17
CLETHRA ALNIFOLIA 'HUMMINGBIRD'	DWARF SUMMERSWEET CLETHRA	5 GAL		3
CORNUS SERICEA 'FLAVIRAMEA'	YELLOW TWIG DOGWOOD	5" BB		8
SEDUM SPECTABILE 'AUTUMN JOY'	AUTUMN JOY SEDUM	1 GAL	24" O.C.	26
SALVIA X SUPERBA 'SUNNY BORDER'	SUNNY BORDER BLUE SALVIA	1 GAL	24" O.C.	17
PENNISETUM A. 'HAMLEN'	DWARF FOUNTAIN GRASS	1 GAL	24" O.C.	23
CALAMAGROSTIS ACUTIFLORA	KARL FORESTER FEATHER REED GRASS	1 GAL	24" O.C.	58
PANICUM VIRGATUM 'CLOUD NINE'	CLOUD NINE SWITCH GRASS	1 GAL	24" O.C.	63
JUNCUS EFFUSUS	COMMON RUSH	1 GAL	24" O.C.	159
CAREX STRICTA	TUSOCK SEDGE	1 GAL	18" O.C.	282

SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	TOTAL	REMARKS
ACER SACCHARINUM	SILVER MAPLE	2" BB		1	
ACER FREEMANI	ARMSTRONG MAPLE	2" BB		2	
BETULA NIGRA	DURA HEAT RIVER BIRCH	2" BB		4	
QUERCUS MACROCARPA	BUR OAK	2" BB		2	
AMELANCHIER GRANDIFLORA	AUTUMN BRILLANCE SERVICEBERRY	6' BB		5	
THUJA OCCIDENTALIS 'NIGRA'	DARK GREEN ARBORVITAE	9' BB		7	
THUJA OCCIDENTALIS 'GREEN GIANT'	GREEN GIANT ARBORVITAE	9' BB		14	
PICEA PUNGENS 'HOOPS BLUE'	COLORADO BLUE SPRUCE	9' BB		3	
VIBURNUM CARLESII	KOREAN SPICE VIBURNUM	5' BB		4	
HYDRANGEA PANICULATA 'CULTIVAR'	LIMELIGHT HYDRANGEA	4' BB		11	
JUNIPERUS CHINENSIS 'SARGENTII'	GREEN SARGENT JUNIPER	18" BB	5' O.C.	33	
SEDUM SPECTABILE 'AUTUMN JOY'	AUTUMN JOY SEDUM	1 GAL	24"	32	
SALVIA X SUPERBA 'SUNNY BORDER'	SUNNY BORDER BLUE SALVIA	1 GAL	24"	20	
PANICUM VIRGATUM 'HEAVY METAL'	HEAVY METAL SWITCH GRASS	1 GAL	24"	37	
SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	1 GAL	24"	103	RANDOM MIX WITHIN PLANTING AREA
SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSEED	1 GAL	24"	103	RANDOM MIX WITHIN PLANTING AREA
SORGHASTRUM NUTANS	INDIAN GRASS	1 GAL	24"	103	RANDOM MIX WITHIN PLANTING AREA

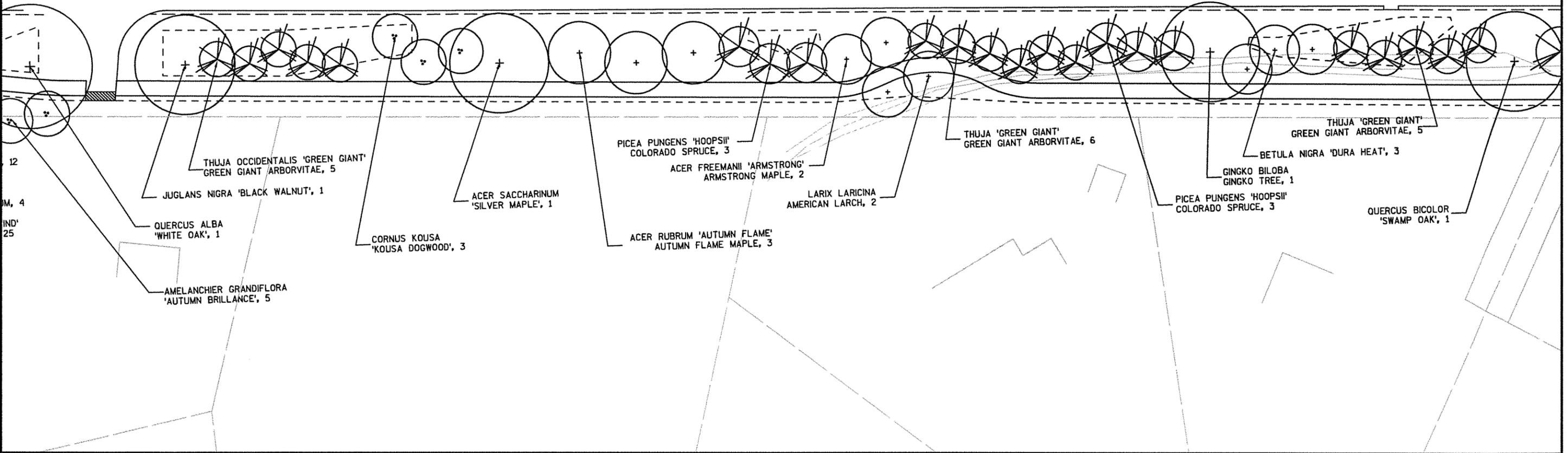




SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	TOTAL
ACER SACCHARINUM	SILVER MAPLE	2" BB		1
ACER FREEMANI 'ARMSTRONG'	ARMSTRONG MAPLE	2" BB		2
ACER RUBRUM 'AUTUMN FLAME'	AUTUMN FLAME MAPLE	2" BB		3
BETULA NIGRA	DURA HEAT RIVER BIRCH	2" BB		3
QUERCUS ALBA	WHITE OAK	2" BB		1
QUERCUS BICOLOR	SWAMP OAK	2" BB		1
JUGLANS NIGRA	BLACK WALNUT	2" BB		1
GINGKO BILOBA	GINBGKO TREE	2" BB		1
LARIX LARICINA	AMERICAN LARCH	2" BB		2
THUJA OCCIDENTALIS 'GREEN GIANT'	GREEN GIANT ARBORVITAE	9' BB		16
PICEA PUNGENS 'HOOPSI BLUE'	COLORADO BLUE SPRUCE	9' BB		6
CORNUS KOUSA	KOUSA DOGWOOD	6' BB		3

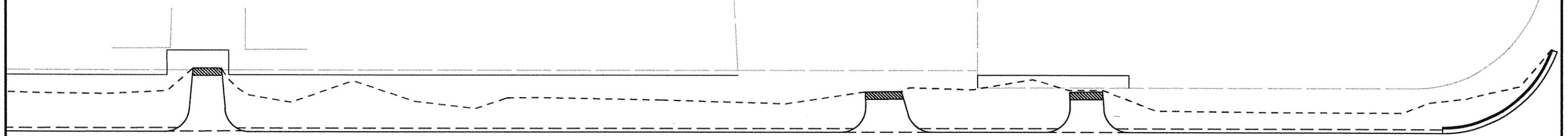


143+00"C" 144+00"C" 145+00"C" 146+00"C" 147+00"C" 148+00"C"





SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	TOTAL
ACER RUBRUM 'AUTUMN FLAME'	AUTUMN FLAME MAPLE	2" BB		2
POPULUS TREMULOIDES	QUAKING ASPEN	2" BB		4
QUERCUS ALBA	WHITE OAK	2" BB		1
JUGLANS NIGRA	BLACK WALNUT	2" BB		1
THUJA OCCIDENTALIS 'GREEN GIANT'	GREEN GIANT ARBORVITAE	9' BB		3
PICEA PUNGENS 'HOOPSI BLUE'	COLORADO BLUE SPRUCE	9' BB		3



149+00"C"

150+00"C"

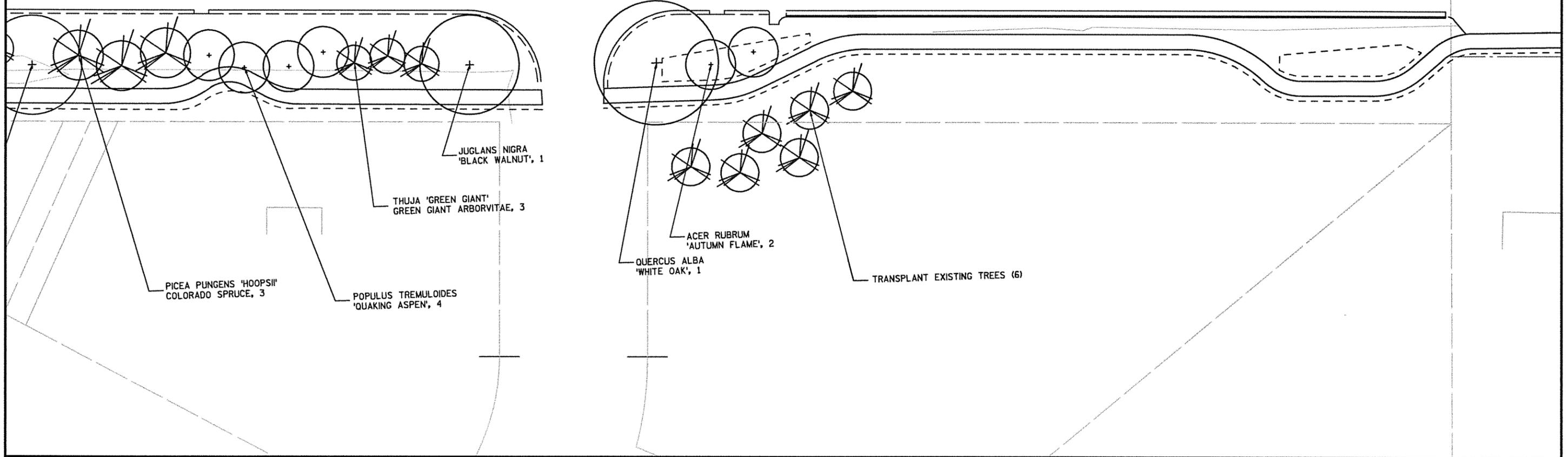
151+00"C"

152+00"C"

153+00"C"

154+00"C"

N01°42'17"E



PICEA PUNGENS 'HOOPSI'
COLORADO SPRUCE, 3

POPULUS TREMULOIDES
'QUAKING ASPEN', 4

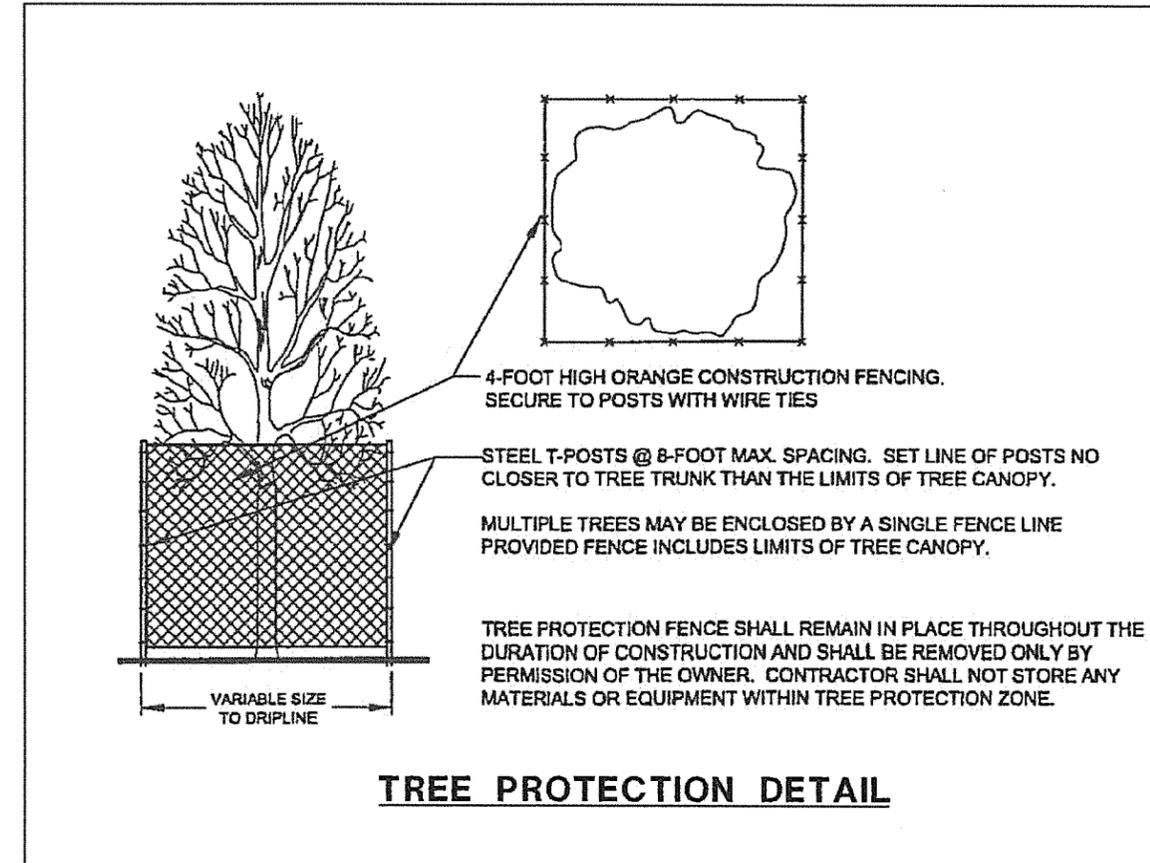
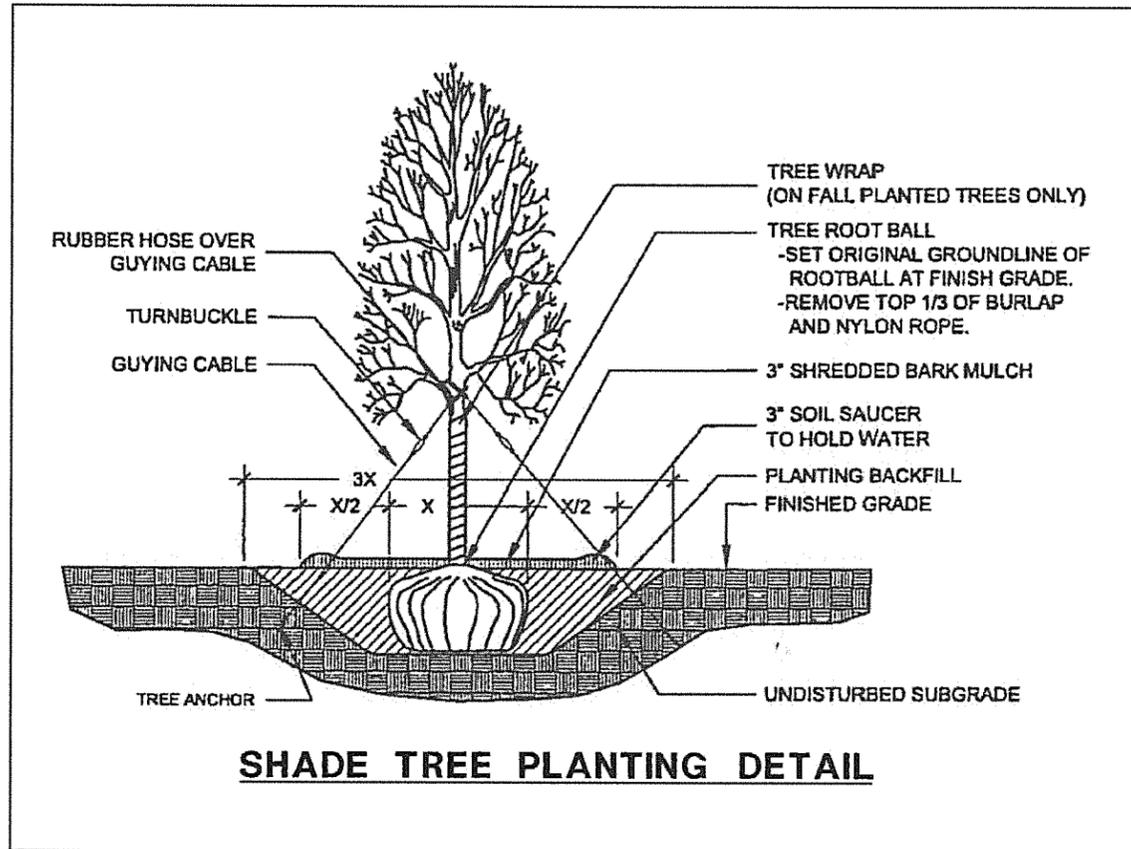
THUJA 'GREEN GIANT'
GREEN GIANT ARBORVITAE, 3

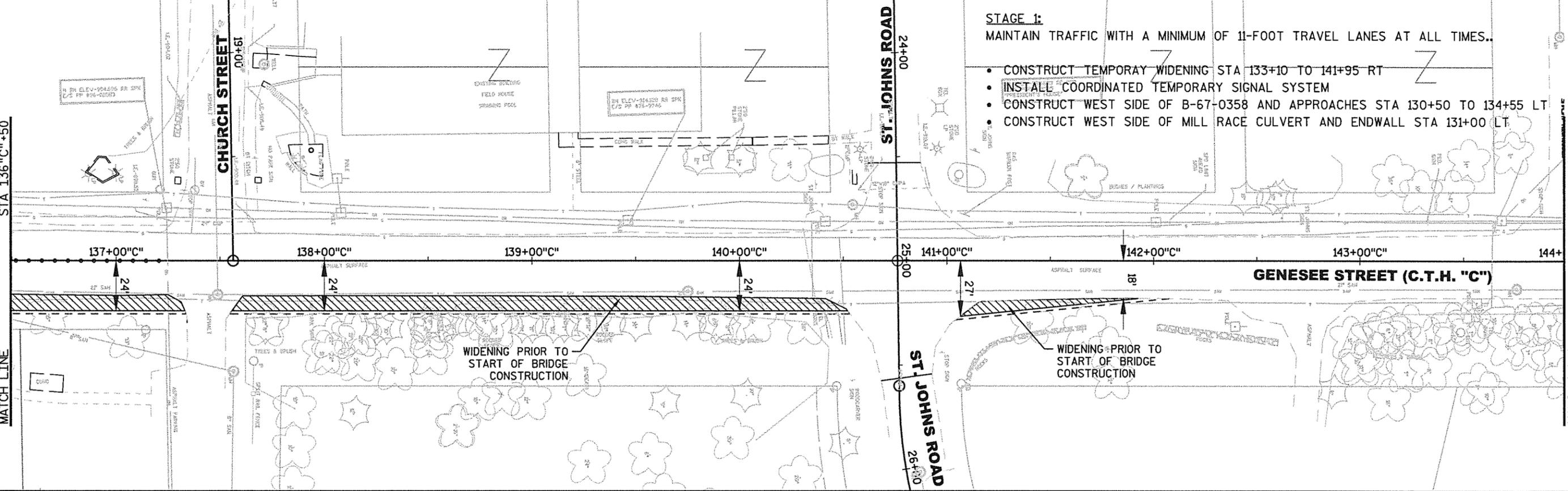
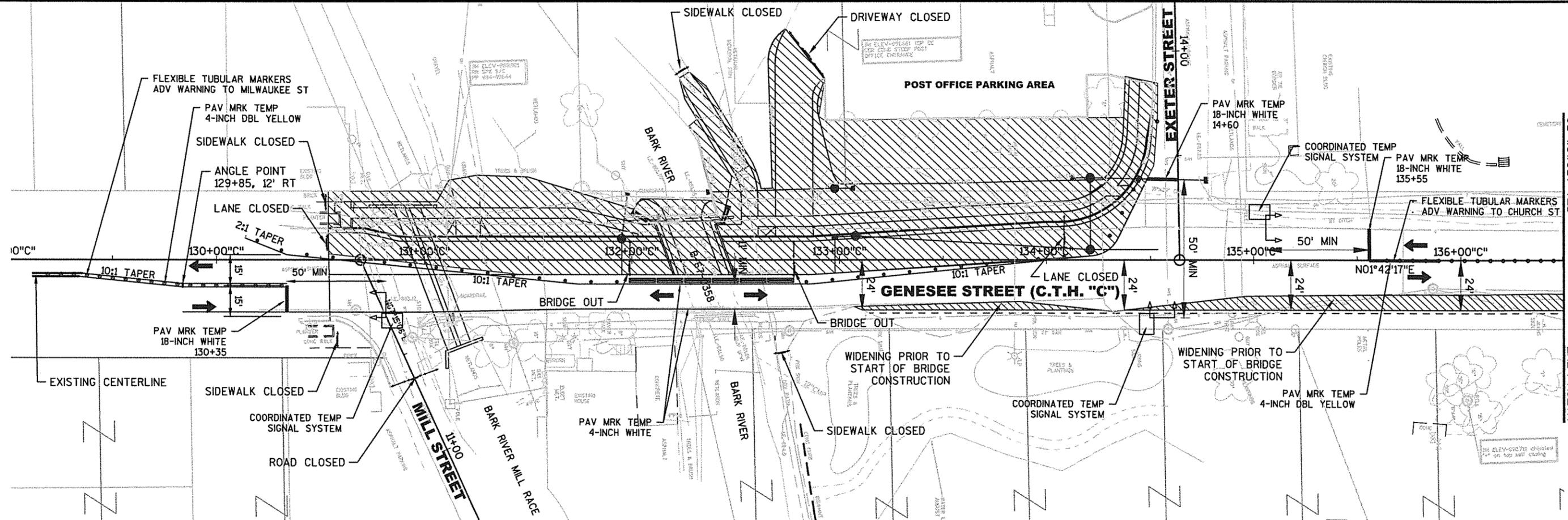
JUGLANS NIGRA
'BLACK WALNUT', 1

QUERCUS ALBA
'WHITE OAK', 1

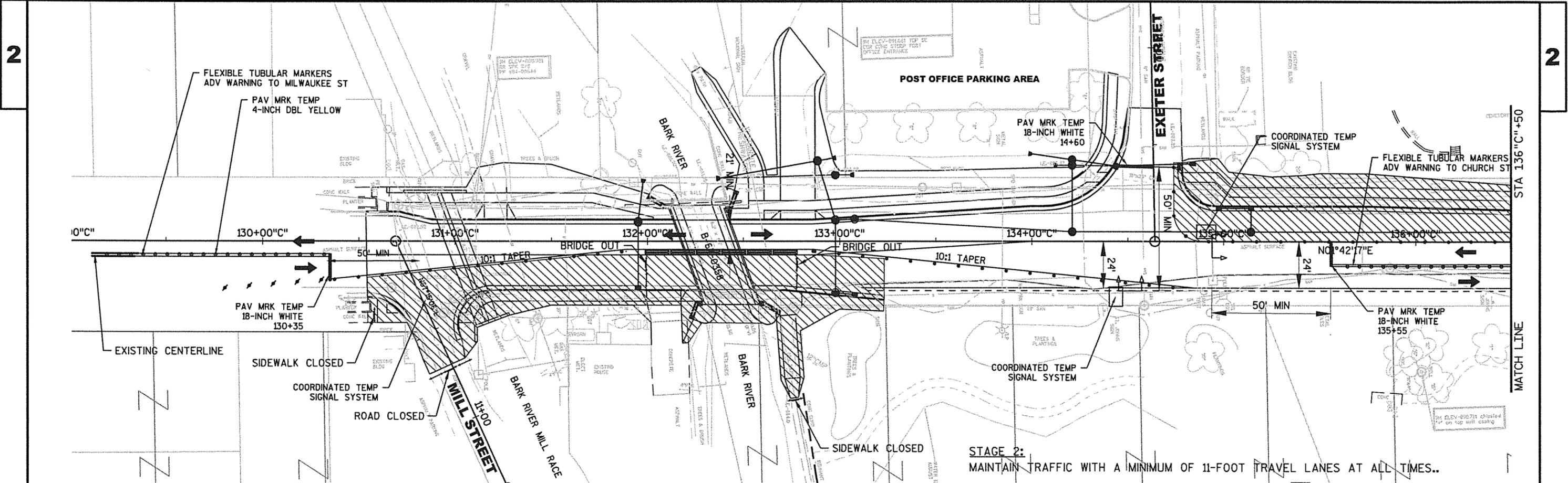
ACER RUBRUM
'AUTUMN FLAME', 2

TRANSPLANT EXISTING TREES (6)

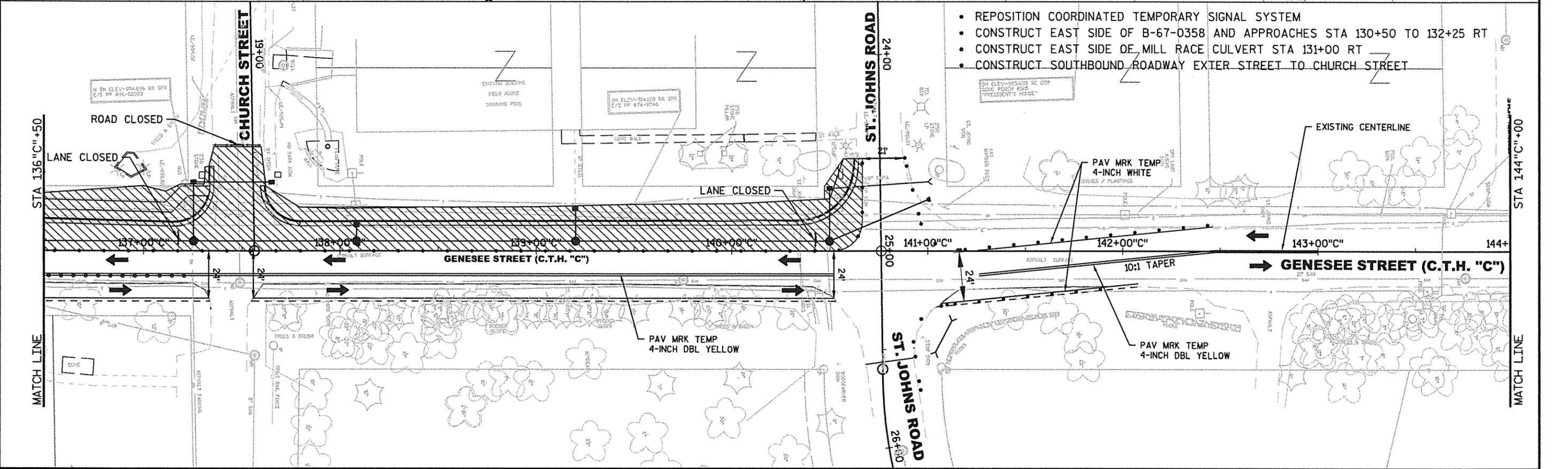




PROJECT NO:14-3775(11)	HWY: CTH "C"	COUNTY: WAUKESHA	STAGING DETAILS: STAGE 1	SHEET	E
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STAGE 2:
 MAINTAIN TRAFFIC WITH A MINIMUM OF 11-FOOT TRAVEL LANES AT ALL TIMES..

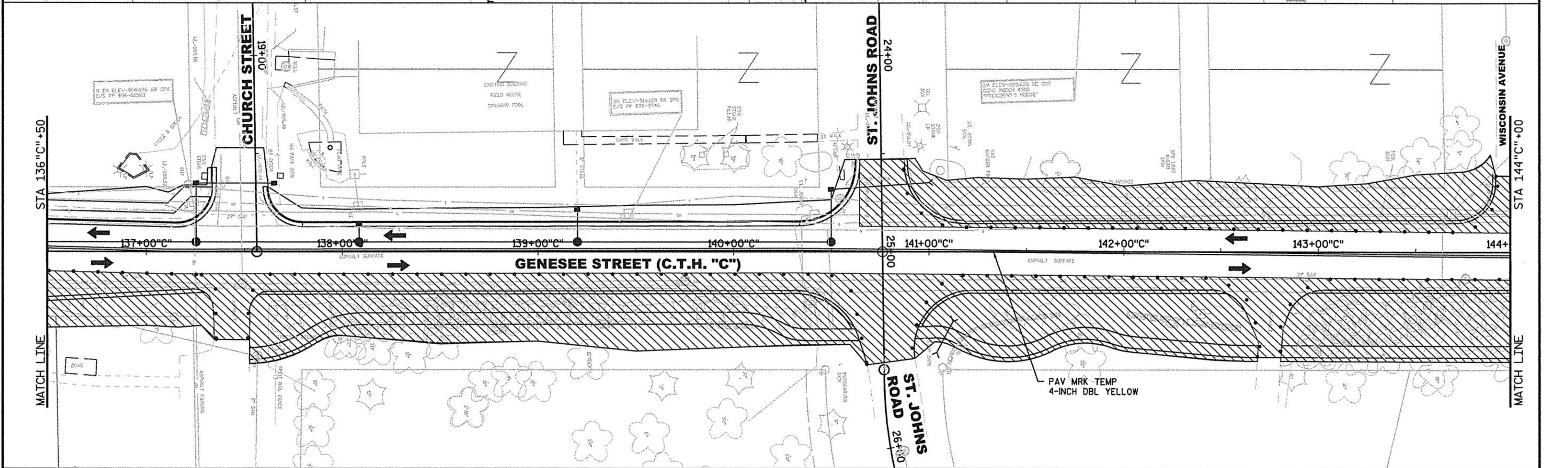
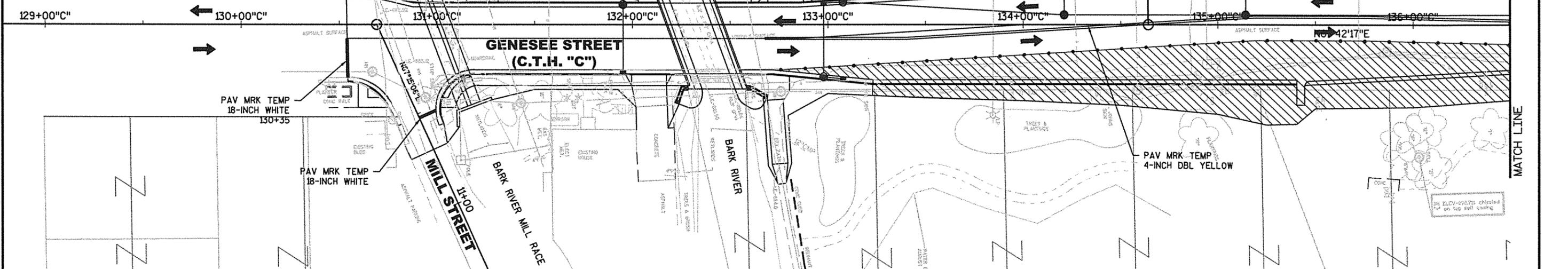


- REPOSITION COORDINATED TEMPORARY SIGNAL SYSTEM
- CONSTRUCT EAST SIDE OF B-67-0358 AND APPROACHES STA 130+50 TO 132+25 RT
- CONSTRUCT EAST SIDE OF MILL RACE CULVERT STA 131+00 RT
- CONSTRUCT SOUTHBOUND ROADWAY EXETER STREET TO CHURCH STREET

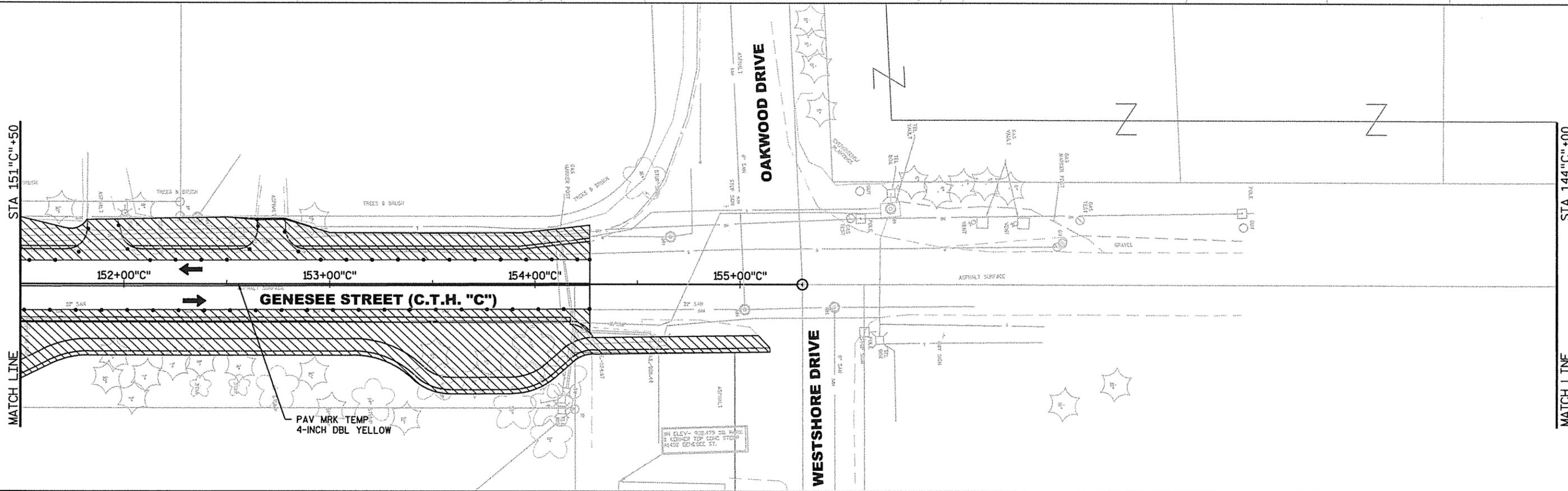
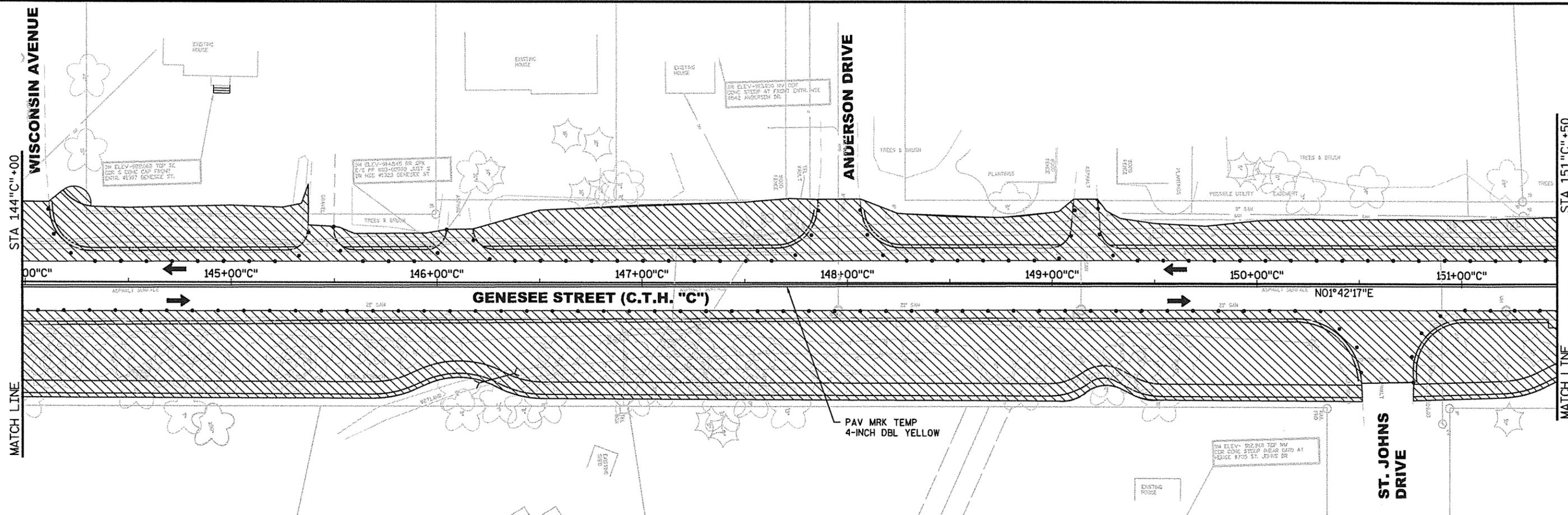
2 **STAGE 3:**
 GENESEE STREET (CTH "C") SHALL REMAIN OPEN TO TWO-WAY TRAFFIC WITHIN THE PROJECT LIMITS. TRAFFIC MAY BE RESTRICTED TO A SINGLE LANE WITH FLAGGING BETWEEN THE HOURS OF 8:30 AM AND 4:00 PM MONDAY THRU FRIDAY AND 7:00 AM TO 7:00 PM ON SATURDAYS.

MAINTAIN TRAFFIC WITH A MINIMUM OF 11-FOOT TRAVEL LANES AT ALL TIMES WITH SIDE ROAD CLOSURES LIMITED TO ONE ST. JOHNS ROAD INTERSECTION AT A TIME.

- CONSTRUCT OUTSIDE OF NORTHBOUND LANE STA 133+70 TO 154+25
- CONSTRUCT OUTSIDE OF SOUTHBOUND LANE STA 140+60 TO 154+25
- CONSTRUCT ASPHALT PATH STA 140+90 TO 155+15, RT



PROJECT NO:14-3775(11)	HWY:CTH "C"	COUNTY:WAUKESHA	STAGING DETAILS: STAGE 3	SHEET	E
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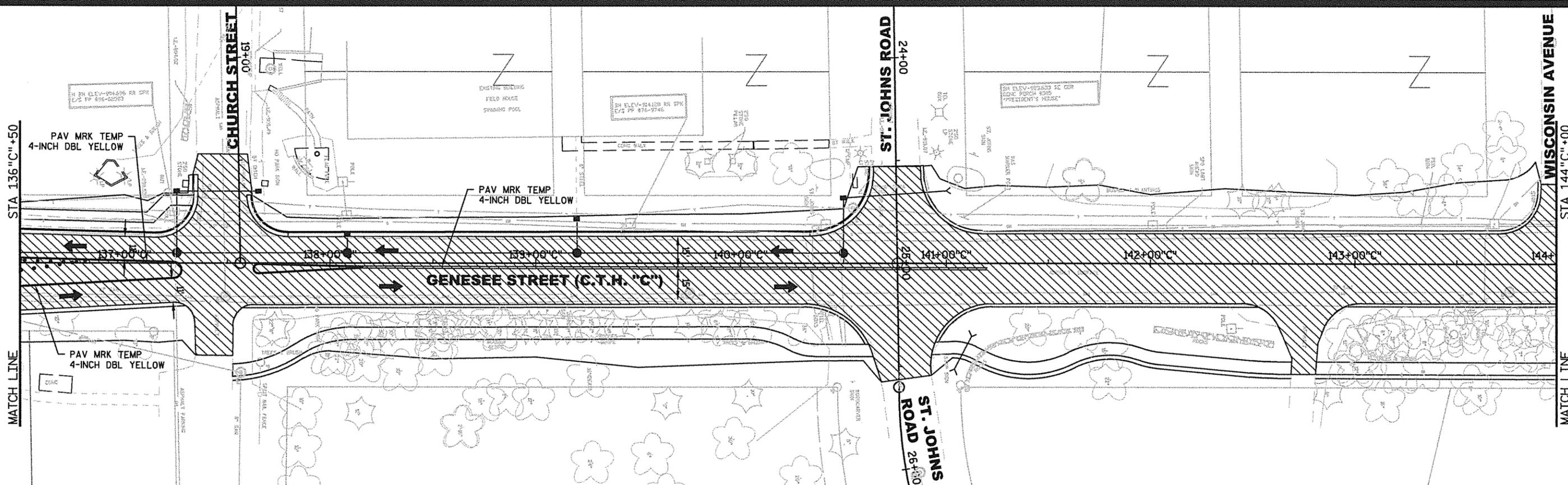
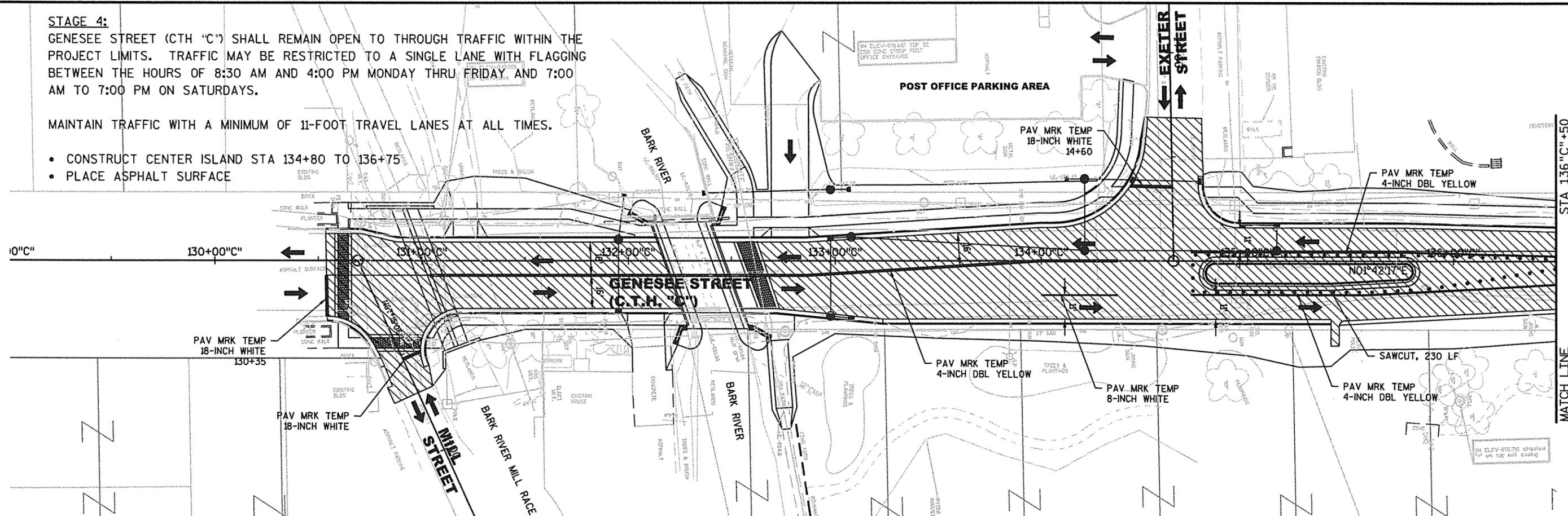


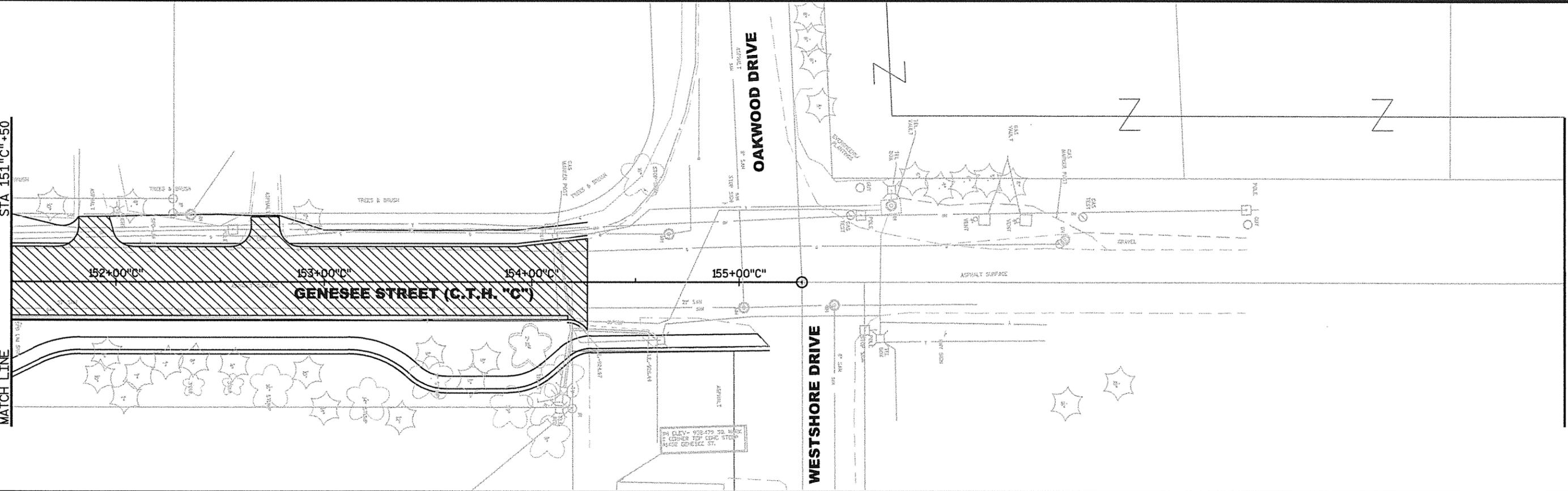
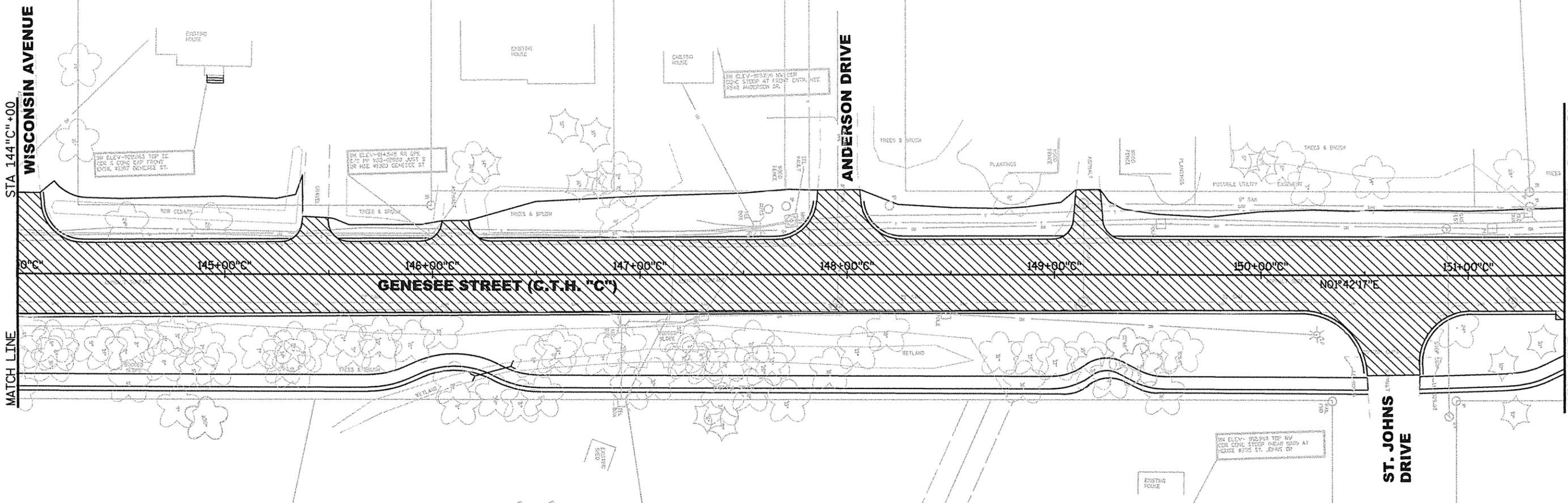
PROJECT NO:14-3775(11)	HWY: CTH "C"	COUNTY: WAUKESHA	STAGING DETAILS: STAGE 3	SHEET	E
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STAGE 4:
 GENESEE STREET (CTH "C") SHALL REMAIN OPEN TO THROUGH TRAFFIC WITHIN THE PROJECT LIMITS. TRAFFIC MAY BE RESTRICTED TO A SINGLE LANE WITH FLAGGING BETWEEN THE HOURS OF 8:30 AM AND 4:00 PM MONDAY THRU FRIDAY AND 7:00 AM TO 7:00 PM ON SATURDAYS.

MAINTAIN TRAFFIC WITH A MINIMUM OF 11-FOOT TRAVEL LANES AT ALL TIMES.

- CONSTRUCT CENTER ISLAND STA 134+80 TO 136+75
- PLACE ASPHALT SURFACE





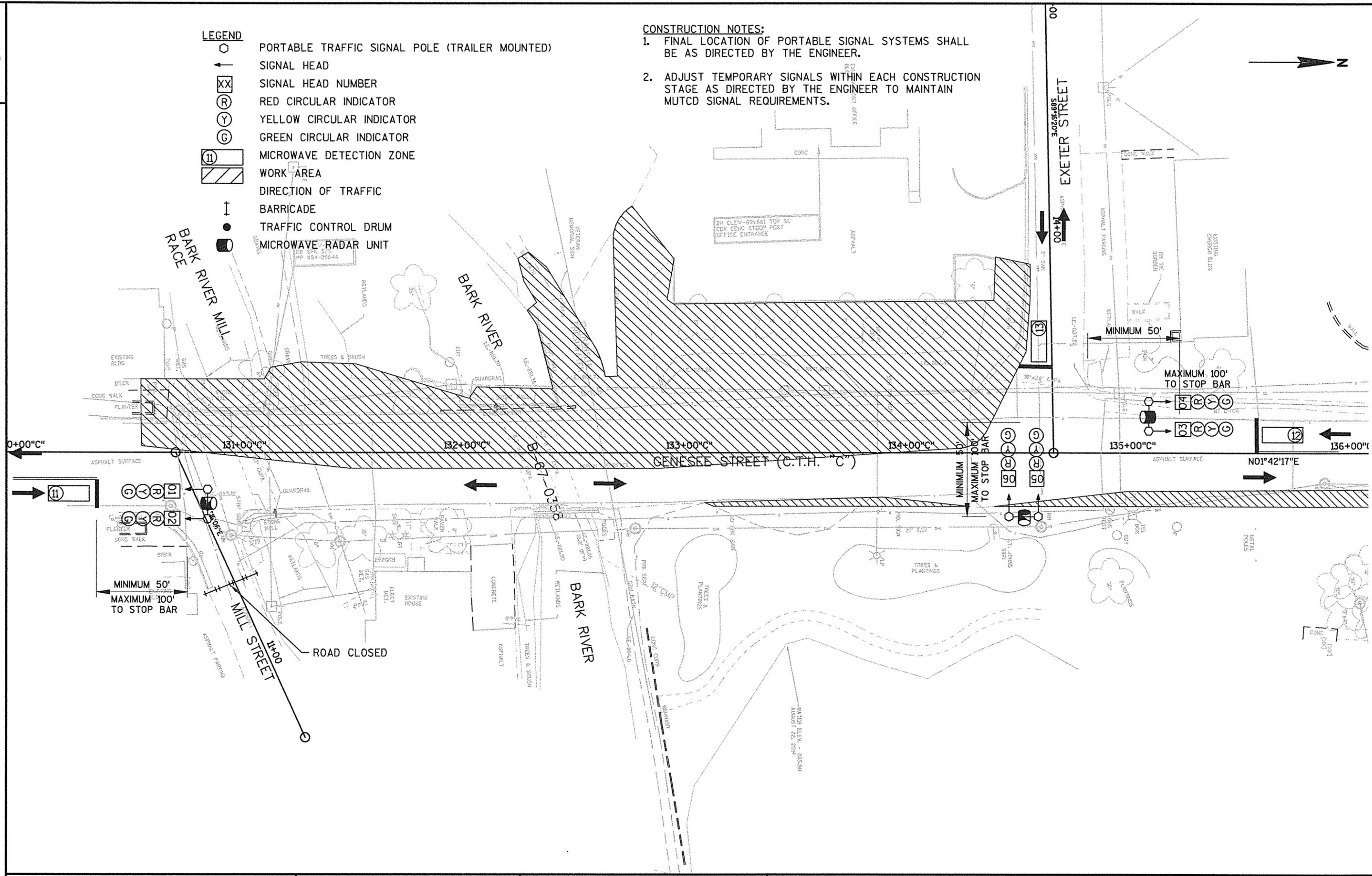
PROJECT NO:14-3775(11)	HWY: CTH "C"	COUNTY: WAUKESHA	STAGING DETAILS: STAGE 4	SHEET	E
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LEGEND

- PORTABLE TRAFFIC SIGNAL POLE (TRAILER MOUNTED)
- ↑ SIGNAL HEAD
- XX SIGNAL HEAD NUMBER
- Ⓡ RED CIRCULAR INDICATOR
- Ⓢ YELLOW CIRCULAR INDICATOR
- Ⓣ GREEN CIRCULAR INDICATOR
- ⑪ MICROWAVE DETECTION ZONE
- ▨ WORK AREA
- DIRECTION OF TRAFFIC
- ⊥ BARRICADE
- TRAFFIC CONTROL DRUM
- ◐ MICROWAVE RADAR UNIT

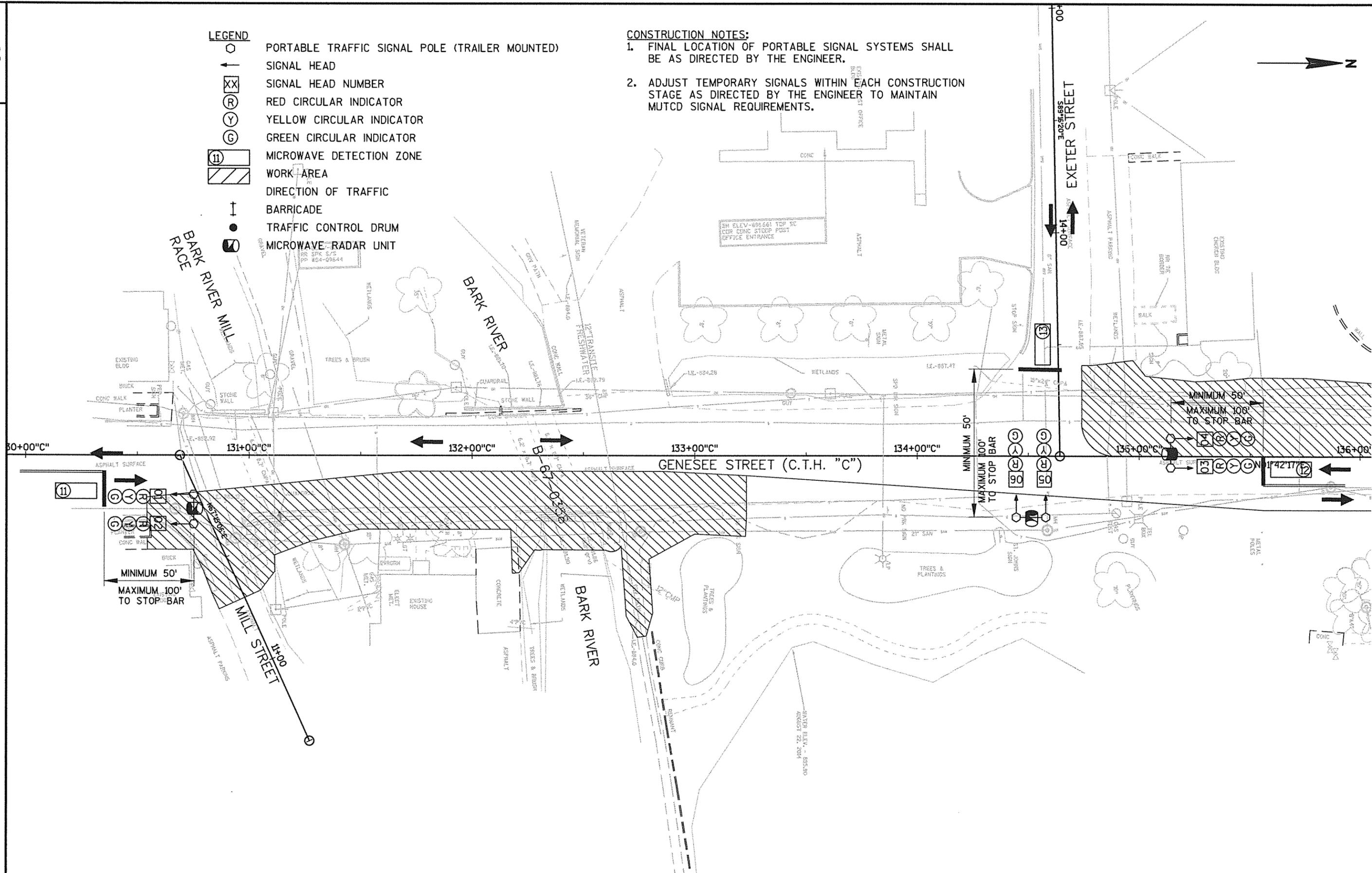
CONSTRUCTION NOTES:

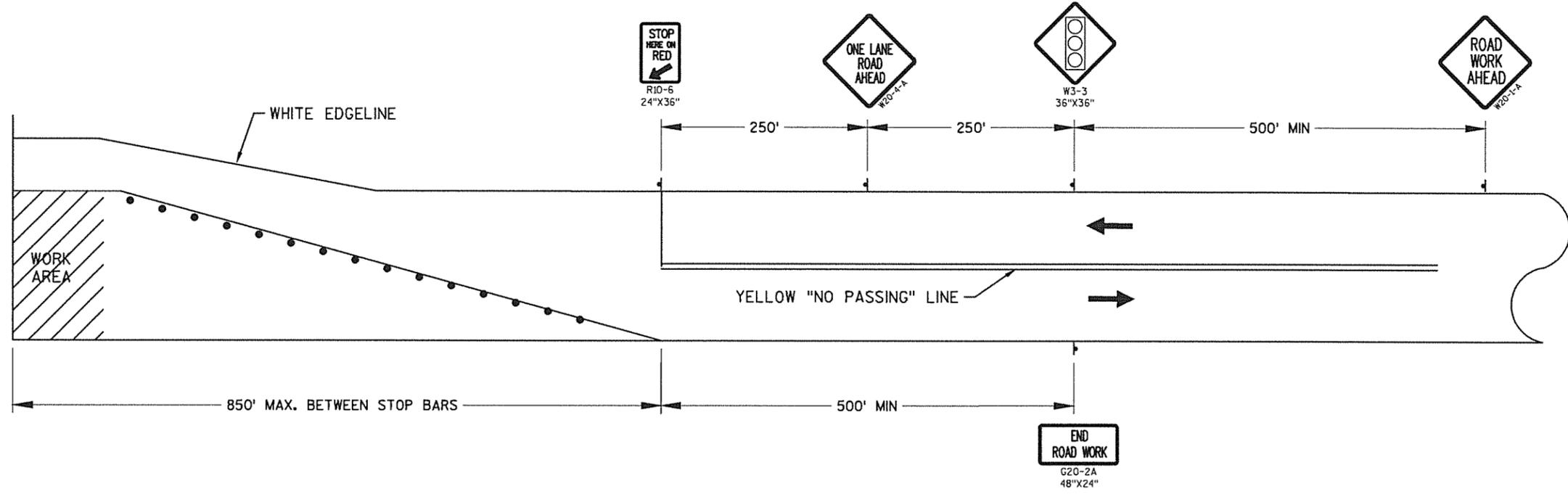
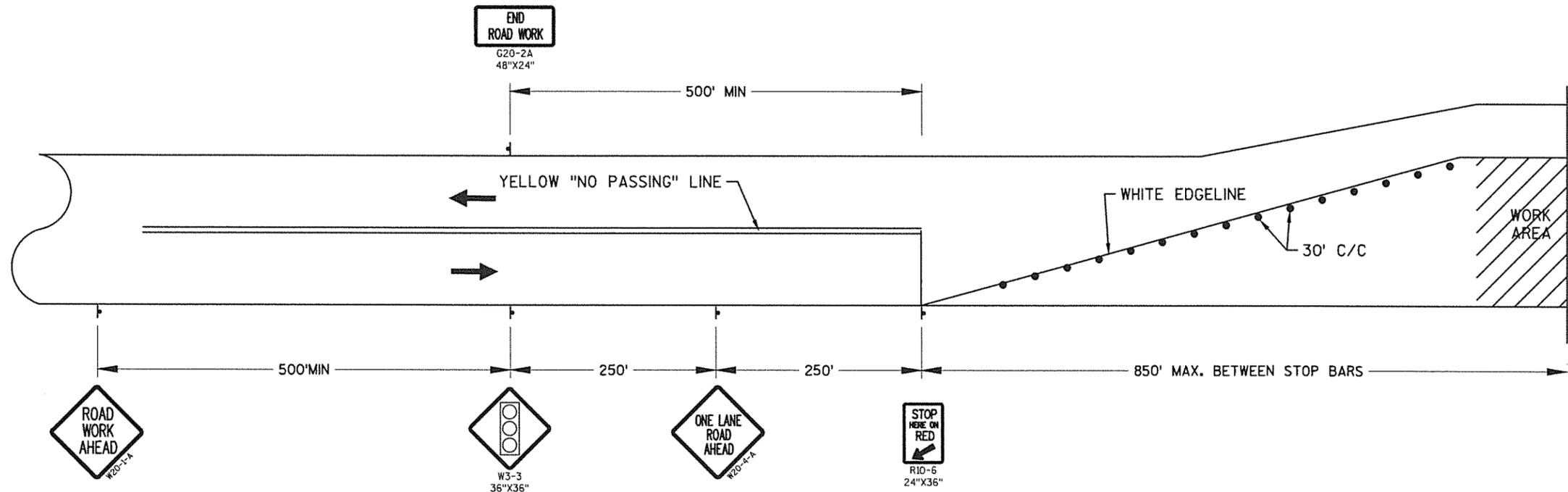
1. FINAL LOCATION OF PORTABLE SIGNAL SYSTEMS SHALL BE AS DIRECTED BY THE ENGINEER.
2. ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.

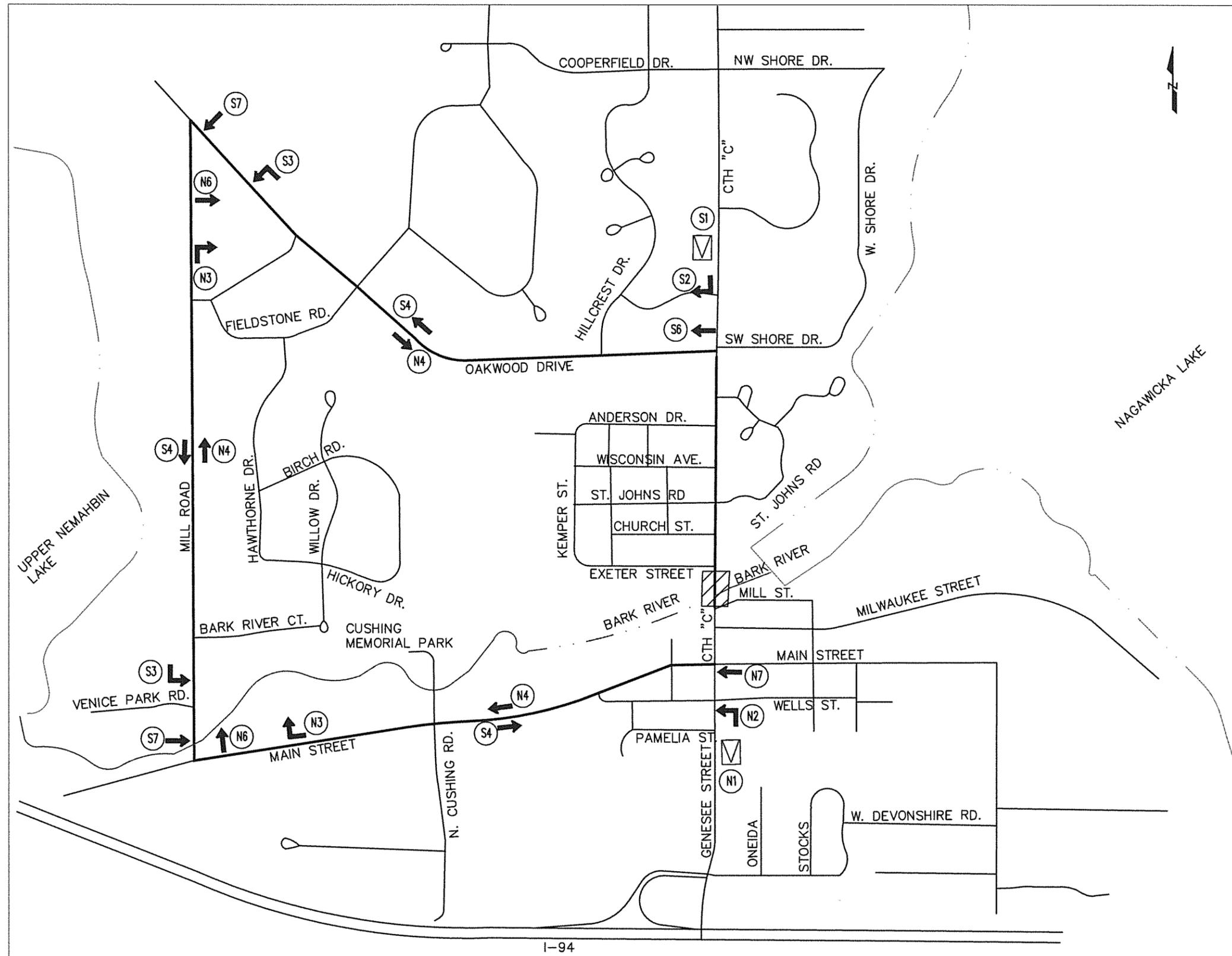


- LEGEND**
- PORTABLE TRAFFIC SIGNAL POLE (TRAILER MOUNTED)
 - ↑ SIGNAL HEAD
 - XX SIGNAL HEAD NUMBER
 - Ⓡ RED CIRCULAR INDICATOR
 - Ⓢ YELLOW CIRCULAR INDICATOR
 - Ⓣ GREEN CIRCULAR INDICATOR
 - ⑪ MICROWAVE DETECTION ZONE
 - ▨ WORK AREA
 - DIRECTION OF TRAFFIC
 - ⊥ BARRICADE
 - TRAFFIC CONTROL DRUM
 - Ⓜ MICROWAVE RADAR UNIT

- CONSTRUCTION NOTES:**
1. FINAL LOCATION OF PORTABLE SIGNAL SYSTEMS SHALL BE AS DIRECTED BY THE ENGINEER.
 2. ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.







ALTERNATE ROUTE PLAN NOTES:

ALL EXISTING SIGN MESSAGES THAT CONFLICT WITH TRAFFIC CONTROL SIGNS SHALL BE COVERED OR REMOVED.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

PORTABLE CHANGEABLE MESSAGE SIGN SHALL BE INSTALLED NOT LESS THAN TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS COMMENCING.

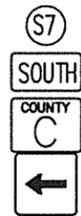
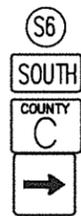
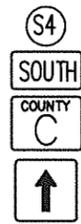
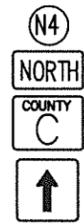
LEGEND

□ V PORTABLE CHANGEABLE MESSAGE SIGN

① SIGN GROUP NUMBER

PORTABLE CHANGEABLE MESSAGE COPY PRIOR TO CONSTRUCTION:

MESSAGE (N1) (S1)
 GENESEE ST
 1-LANE @
 BARK RIVER
 BEGINS
 XXX
 USE ALT ROUTE

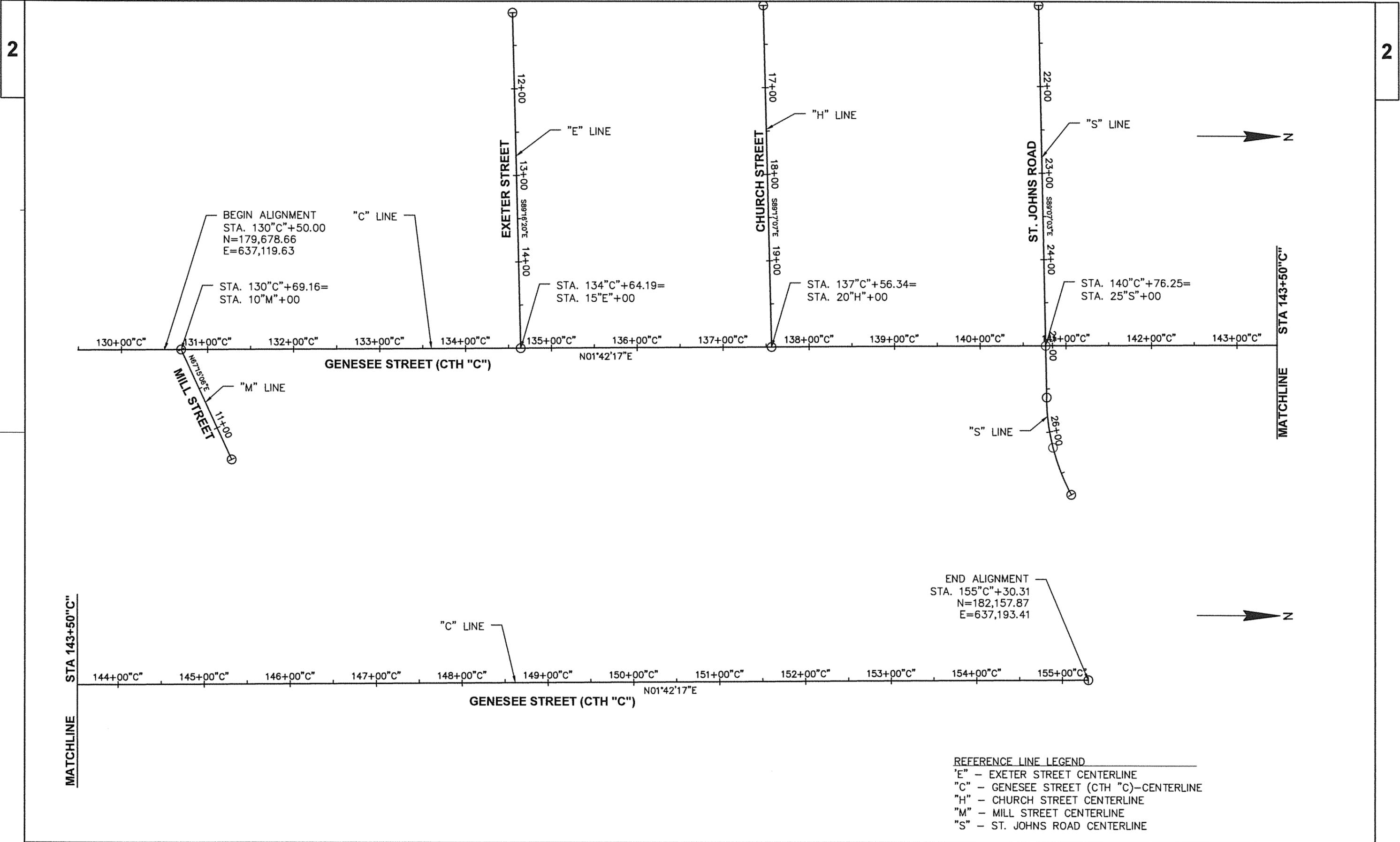


DETOUR SIGNAGE NOTES:

ALL M3 SERIES SIGNS WHICH ARE PART OF THE DETOUR ROUTE MARKER SIGNING ASSEMBLY OR ATTACHED TO ANY WARNING SIGN SHALL BE BLACK LETTERING ON A WHITE BACKGROUND.

ALL SIGN CLUSTERS TO INCLUDE M4-8 "DETOUR" SIGN AT THE TOP OF THE SIGN GROUP.





EARTHWORK SUMMARY
205.0100, 208.0100

From/To Station	Location	Common Excavation (1)		Salvaged/ Unusable Pavement Material (2)	Available Material	Waste	Comment:
		Cut (2)	EBS Excavation (3)				
		(205.0100)					
135+54.5 TO 151+26.8	C.T.H. "C"	714	200		714	714	
135+54.5 TO 151+26.8	PATH	2825		0	2825	2825	CATEGORY 0070
BRIDGE	Undistributed				0	300	CATEGORY 0020
MILL RACE	Undistributed			0	0	100	CATEGORY 0030
Grand Total		3539	200	0	3539	3939	

- 1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
- 2) Salvaged/ Unsuable Pavement Material is included in Cut.
- 3) Excavation Below Subgrade is undistributed quantity only.

* COMBINED QUANTITY, ADDITIONAL
QUANTITIES FOUND ELSEWHERE IN PLANS.

3

3

REMOVING SMALL PIPE CULVERTS

STATION	SIZE	LENGTH	TYPE	203.0100 EACH
131" C" +95.2	6.2X8.7	32.0	CMPA	1
132" C" +52.6	36	9.9	CMP	1
132" C" +97.8	18	35.4	CMPA	1
134" C" +56.8	18X24	47.0	CMPA	1
137" C" +47.0	24	40.0	CMP	1
140" C" +74.5	12X18	35.0	CMPA	1
TOTAL				6

REMOVING CURB AND GUTTER

STATION TO STATION	LOCATION	204.1050 LF
130" C" +54 TO 130" C" +65	LT	11
130" C" +53 TO 130" C" +82.0	RT	39
134" C" +45.7 TO 134" C" +50.8	LT	20
134" C" +43	LT	7
TOTAL		77

REMOVING GUARDRAIL

STATION TO STATION	LOCATION	204.0165 LF
130" C" +80.0 TO 131" C" +09.1	LT	31
130" C" +99.3 TO 131" C" +30.4	RT	35
TOTAL		66

SAWING CONCRETE

STATION	LF	COMMENT	690.0250
130" C" +53 LT	3	CURB & GUTTER	
130" C" +53 RT	3	CURB & GUTTER	
132" C" +11 RT	31	DRIVEWAY	
134+43 LT	5	CURB & GUTTER	
TOTAL		42	

REMOVING ASPHALTIC SURFACE BUTT JOINTS

LOCATION	SY	ITEM 204.0115
EXETER STREET	17	
CHURCH STREET	16	
ST. JOHNS ROAD	15	
WISCONSIN DRIVE	15	
ST. JOHNS DRIVE	17	
ANDERSON DRIVE	13	
142+75 RT	5	
146+11 LT	4	
149+16 LT	4	
151+89 LT	5	
152+71 LT	4	
TOTAL		115

* COMBINED QUANTITY, ADDITIONAL QUANTITIES FOUND ELSEWHERE IN PLANS.

SAWING ASPHALT

STATION	LF	COMMENT	690.0150
130" C" +54	40		
130" C" +98.0	20	MILL STREET	
134" C" +63.0	26	EXETER STREET	
135" C" +81.6	30		
137" C" +47.7 LT	24	CHURCH STREET	
137" C" +43.6 RT	18	PARK	
140" C" +76.0 LT	21	ST. JOHNS ROAD	
140" C" +80.7 RT	25	ST. JOHNS ROAD	
142" C" +74.0 RT	15	DRIVEWAY	
146" C" +11.1 LT	15	DRIVEWAY	
147" C" +95.0	20	ANDERSON DRIVE	
149" C" +16.3 LT	12	DRIVEWAY	
150" C" +63.9	26	ST. JOHNS DRIVE	
151" C" +89.4 LT	15	DRIVEWAY	
152" C" +71.5 LT	15	DRIVEWAY	
154" C" +26.7	40		
154" C" +26.7 TO 154" C" +65 LT	55		
TOTAL		417	

CONCRETE CURB & GUTTER

STA TO STA	LF	LF	LF	
130" C" +54.5 TO 134" C" +51.7 LT	—	432	—	
130" C" +54.4 TO 130" C" +82.0 RT	—	39	—	
131" C" +01.0 TO 135" C" +40.4 RT	—	461	—	
134" C" +78.5 TO 135" C" +81.6	219	—	—	
134" C" +76.1 TO 137" C" +35.7 LT	—	297	—	
137" C" +59.6 TO 140" C" +64.6 LT	—	340	—	
151" C" +50.0 TO 154" C" +17.3 RT	—	267	—	
132" C" +52.7 LT	—	—	6	
134" C" +21.7 LT	—	—	7	
154" C" +16.1 TO 154" C" +63.1	—	61	—	
TOTAL		219	1897	13

PROOF ROLLING

LOCATION	STA	SPV.0170.01
PROJECT (14-3775(11))	16	
TOTAL		16

GEOGRID

STA	SY	COMMENT	645.0135
UNDISTRIBUTED	1650.0	EBS	
TOTAL		1650.0	

BASE AGGREGATE DENCE 3/4-INCH

LOCATION	TONS	NOTES	ITEM 305.0110
ROADWAY			
STA 135" C" +44.5 TO 151" C" +43.2 RT	150	SHOULDER	
STA 140" C" +88.8 TO 154" C" +26.8 LT	130	SHOULDER	
SIDEWALK			
STA 130" C" +59.6 TO 132" C" +71.4 RT	55	SIDEWALK	
STA 130" C" +56.8 TO 137" C" +33.1 LT	165	SIDEWALK	
TOTAL		500	

BASE AGGREGATE DENCE 1 1/4-INCH

LOCATION	TONS	NOTES	ITEM 305.0120
ROADWAY			
STA 130" C" +54.5 TO 154" C" +26.8	240	ROADWAY	
STA 135" C" +81.6 TO 154" C" +26.8	2465	WIDENING	
STA 137" C" +52 TO 155" C" +14.5 RT	525	PATH	
DRIVEWAYS	135		
TOTAL		3365	

BASE AGGREGATE DENSE 3-INCH

LOCATION	TONS	NOTES	305.0130
UNDISTRIBUTED	125	EBS	
TOTAL		125	

CURB RAMP DETECTABLE WARNING FIELD YELLOW

STATION	LOCATION	SF	602.0505
STA 130" C" +62	LT	8	
STA 130" C" +62	RT	8	
STA 130" C" +72	RT	8	
STA 131" C" +03	RT	8	
STA 132" C" +57	LT	8	
STA 132" C" +69	RT	16	
STA 134" C" +36	LT	8	
STA 134" C" +79	LT	8	
STA 137" C" +32	LT	8	
STA 134" C" +43	LT	8	
TOTAL		88	

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CONCRETE SIDEWALK

LOCATION	602.0405	602.0415
	CONCRETE	CONCRETE
	4-INCH	6-INCH
LOCATION	SF	SF
130"C'+56.8 TO 131"C'+15.2 LT	342	—
130"C'+59.6 TO 130"C'+75.0 RT	100	—
131"C'+01.8 TO 131"C'+96.5 RT	539	—
131"C'+15.2 TO 131"C'+27.0 LT	—	59
131"C'+96.5 TO 132"C'+28.5 RT	—	172
131"C'+27.0 TO 132"C'+13.0 LT	435	—
132"C'+40.7 TO 132"C'+69.3 LT	362	—
132"C'+69.3 TO 132"C'+87.2 LT	—	91
132"C'+87.2 TO 134"C'+45.0 LT	1032	—
134"C'+78.7 TO 137"C'+33.1 LT	1209	—
TOTAL	4019	322

CLEARING AND GRUBBING

LOCATION	CLEARING	GRUBBING
	ITEM 201.0105	ITEM 201.0205
	STA	STA
STA 130"C'+00 TO 155"C'+00	25	25
TOTAL	25	25

MOBILIZATION

LOCATION	619.1000
	EACH
	PROJECT
TOTAL	1

FINISHING ROADWAY

LOCATION	213.0100
	EACH
	PROJECT
TOTAL	1

PULVERIZE AND RELAY

STATION	325.0100
	SY
	130"C'+54 TO 154"C'+65 LT
TOTAL	9168

* COMBINED QUANTITY, ADDITIONAL QUANTITIES FOUND ELSEWHERE IN PLANS.

CONCRETE PAVEMENT

LOCATION	415.0080
	CONCRETE
	8-INCH
LOCATION	SY
131"C'+21 LT	16
132"C'+10 RT	20
132"C'+78 LT	11
TOTAL	47

PAVEMENT MARKING ARROWS

STATION	647.0166	EPOXY
		TYPE 2
		EACH
134"C'+04 RT	1	
134"C'+37 RT	1	
PROJECT TOTAL	2	

PAVEMENT MARKING EPOXY 8-INCH

STATION	646.0126	WHITE
		LF
	133"C'+95 TO 134"C'+45 RT	50
TOTAL	50	

ASPHALTIC ITEMS

LOCATION	460.1100	455.0605	455.0105	465.0105	465.0120
	HMA PAVEMENT	TACK COAT	ASPHALTIC MATERIAL	ASPHALTIC	ASPHALT SURFACE
	TYPE E-0.3	(0.07 gal/SY)	PG58-28	SURFACE	DRIVEWAYS & FIELD ENTRANCES
	TON	GAL	TON	TON	TON
ROADWAY					
STA 130"C'+54.5 TO 154"C'+26.8	3070	650	185	—	—
*BRIDGE & APPROACHES NOT INCLUDED					
PATH - STA 137"C'+52 TO 155"C'+14.5 RT	—	—	—	265	—
DRIVEWAYS	—	—	—	—	90
TOTAL	3070	650	185	265	90

ASPHALTIC FLUMES

STATION	LOCATION	465.0315
		SY
STA 151"C'+45.2	RT	2
TOTAL		2

PAVEMENT MARKING CROSSWALK EPOXY 18-INCH

STATION	LOCATION	647.0786
		WHITE
		LF
130"C'+62	LT & RT	82
130"C'+87	RT	46
132"C'+62	LT & RT	68
TOTAL		196

PAVEMENT MARKING EPOXY 18-INCH

STATION	LOCATION	647.0566	WHITE	COMMENT
		STOP LINE	LF	
		134"C'+56 LT	18	
TOTAL		18		

PAVEMENT MARKING EPOXY 4-INCH

STATION	646.0106		COMMENT
	YELLOW	WHITE	
	SOLID	SOLID	
	LF	LF	
130"C'+66.1 TO 134"C'+07.6 LT	—	342	LANE LINE
131"C'+19.3 TO 140"C'+30.8 RT	—	912	LANE LINE
134"C'+96.2 TO 137"C'+15.0 LT	—	219	LANE LINE
137"C'+79.6 TO 140"C'+33.7 LT	—	254	LANE LINE
141"C'+17.8 TO 143"C'+71.9 LT	—	254	LANE LINE
141"C'+22.4 TO 154"C'+26.7 RT	—	1304	LANE LINE
144"C'+32.1 TO 153"C'+93.0 LT	—	566	LANE LINE
130"C'+54.5 TO 154"C'+26.8	4564	—	CENTERLINE
SUB TOTAL	4564	3851	
PROJECT TOTAL		8415	

PAVEMENT MARKING DIAGONAL EPOXY 12-INCH

STATION	647.0726	COMMENT
	YELLOW	
	LF	
132"C'+80.7 TO 134"C'+00.0	37	
135"C'+79.2 TO 137"C'+23.5	55	
TOTAL	92	

CONSTRUCTION STAKING

LOCATION	650.4000	650.4500	650.5000	650.5500	650.6000	650.9910	650.9920
	CONSTRUCTION	CONSTRUCTION	CONSTRUCTION	CONSTRUCTION	CONSTRUCTION	CONSTRUCTION	CONSTRUCTION
	STAKING	STAKING	STAKING	STAKING	STAKING	STAKING	STAKING
	STORM SEWER	SUBGRADE	BASE	CURB & GUTTER	PIPE CULVERTS	SUPPLEMENTAL	SLOPE
	EACH	LF	LF	LF	EA	CONTROL	STAKES
						LS	LF
GENESEE STREET	22	2367	2367	2051		1	2367
PATH	—	—	—	—		—	1720
TOTAL	22	2367	2367	2051	0	1	4087

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SILT FENCE			
		628.1504	628.1520
		SILT FENCE	SILT FENCE MAINTENANCE
STA TO STA	LOCATION	LF	LF
UNDISTRIBUTED		250	125
PROJECT TOTAL		250	125

TEMPORARY DITCH CHECKS		
		628.7504
STATION	LOCATION	LF
UNDISTRIBUTED		48
PROJECT TOTAL		48

CULVERT PIPE CHECKS		
		628.7555
STATION	LOCATION	EACH
131"C'+98	LT	3
132"C'+35	LT	3
133"C'+06	LT	3
134"C'+11	LT	3
141"C'+04	LT	3
141"C'+15	RT	3
146"C'+45	RT	3
UNDISTRIBUTED		12
TOTAL		33

INLET PROTECTION			
		628.7010	628.7015
		TYPE B	TYPE C
STATION	LOCATION	EA	EA
131"C'+95	LT	—	1
131"C'+95	RT	—	1
132"C'+98	RT	—	1
132"C'+98	LT	—	1
133"C'+08	RT	—	1
133"C'+08	LT	—	1
134"C'+43	LT	—	1
134"C'+78	LT	—	1
134"C'+98	LT	—	1
135"C'+14	LT	—	1
137"C'+25	LT	1	—
137"C'+65	LT	1	—
138"C'+08	LT	—	1
139"C'+20	LT	1	—
140"C'+50	LT	1	—
TOTAL		4	11

MOBILIZATION EROSION CONTROL			
		628.1905	628.1910
		MOBILIZATION EROSION CONTROL	MOBILIZATION EMERGENCY EROSION CONTROL
LOCATION	EA	EA	
PROJECT	4	2	
TOTAL	4	2	

TURBIDITY BARRIER	
LOCATION	628.6005 SY
BRIDGE:	
NORTH SIDE	65.0
SOUTH SIDE	60.0
MILE RACE:	
EAST SIDE	10
TOTAL	135.0

GEOTEXTILE FABRIC			
		606.0100	645.0120
		RIPRAP LIGHT	TYPE DF SCHEDULE HR
STA	CY	SY	
TOTAL	0.0	0.0	

WATER	
LOCATION	ITEM 624.0100 MGAL
UNDISTRIBUTED	10
TOTAL	10

EROSION MAT				
		628.2023	628.2027	
		EROSION MAT CLASS I B	EROSION MAT CLASS II C	
STATION	LOCATION	SY	SY	
130"C'+65 TO 131"C'+15	LT	17	—	
131"C'+21 TO 132"C'+02	RT	31	—	
131"C'+26 TO 131"C'+89	LT	115	—	
131"C'+90 TO 132"C'+10	LT	—	34	
132"C'+17 TO 132"C'+25	RT	10	—	
132"C'+23 TO 132"C'+53	LT	45	—	
132"C'+28 TO 132"C'+74	LT	47	—	
132"C'+67 TO 132"C'+74	RT	9	—	
132"C'+78 TO 137"C'+34	RT	624	—	
132"C'+87 TO 134"C'+40	LT	176	—	
134"C'+79 TO 137"C'+36	LT	165	—	
137"C'+52 TO 140"C'+68	RT	641	—	
140"C'+92 TO 142"C'+69	RT	396	—	
142"C'+81 TO 150"C'+52	RT	1836	—	
145"C'+50 TO 146"C'+05	LT	61	—	
145"C'+69 TO 146"C'+41	RT	—	51	
146"C'+18 TO 147"C'+86	LT	352	—	
146"C'+21 TO 148"C'+67	RT	—	294	
148"C'+07 TO 149"C'+10	LT	165	—	
149"C'+22 TO 151"C'+82	LT	379	—	
150"C'+76 TO 155"C'+13	RT	662	—	
151"C'+97 TO 152"C'+65	LT	123	—	
152"C'+78 TO 154"C'+61	LT	156	—	
SUB TOTAL		6010	379	
UNDISTRIBUTED		1503	95	
PROJECT TOTAL		7513	474	

RESTORATION					
		625.0100	629.0205	630.0130	630.200
		TOPSOIL	FERTILIZER TYPE A	SEEDING MIXTURE NO. 30	SEEDING TEMPORARY
STA		SY	CWT	LBS	LBS
130"C'+54 TO 154"C'+65	LT	476	3	1	1
130"C'+54 TO 154"C'+65	LT	6389	45	13	19
SUBTOTAL		6865	48	14	21
UNDISTRIBUTED		1716	12	3	5
TOTAL		8581	60	17	26

SOD			
		631.1000	631.0300
		SOD LAWN	SOD WATER
STATION	LOCATION	SY	MGAL
130"C'+65 TO 131"C'+15	LT	40	
131"C'+27 TO 132"C'+03	LT	56	
132"C'+89 TO 134"C'+36	LT	73	
134"C'+35 TO 134"C'+51	LT	29	
134"C'+80 TO 137"C'+33	LT	144	
137"C'+61 TO 140"C'+63	LT	134	
SUB TOTAL		476	0
UNDISTRIBUTED		119	10
PROJECT TOTAL		595	10

EROSION CONTROL					
		628.7010	628.7015	628.7570	628.7560
		INLET PROTECTION TYPE B	INLET PROTECTION TYPE C	ROCK BAGS	TRACKING PADS
LOCATION	EA	EA	EA	EA	
130"C'+65 TO 154"C'+65	11	4			
BARK RIVER BRIDGE			100	1	
MILL RACE			200	1	
UNDISTRIBUTED	0	0	75	0	
TOTAL	11	4	375	2	

* COMBINED QUANTITY, ADDITIONAL QUANTITIES FOUND ELSEWHERE IN PLANS.

SIGN REMOVALS

LOCATION	SIGN CODE	638.2102	638.2602	638.3000	REMARKS
		MOVING SIGNS TYPE II EACH	REMOVING SIGNS TYPE II EACH	REMOVING SMALL SIGN SUPPORTS EACH	
130+60.2	W11-2	—	2	1	
130+60.2	WF16-7R	—	2	—	
130+57.8	W11-2	—	2	1	
130+57.8	WF16-7L	—	2	—	
130+98.6	R1-1	—	1	1	STOP-RETURN SIGN TO CITY OF DELAFIELD
131+16.7	R7-4	—	1	1	NO PARKING ANYTIME
131+74.8	R7-4	—	1	1	NO PARKING ANYTIME
132+44.1	R7-4	—	1	1	NO PARKING ANYTIME
132+44.1	—	—	1	—	FIRE DEPT. PUMPING SITE
132+76.3	—	1	—	1	DAM & PARK AREA CLOSED
132+85.9	—	2	—	1	USPS SIGNS
132+89.1	R5-1	—	1	1	
132+96.7	—	—	1	1	DO NOT ENTER
133+12.7	R7-4	—	1	1	NO PARKING ANYTIME
133+87.0	R7-4	—	1	1	NO PARKING ANYTIME
133+83.0	R2-1	—	1	1	
133+83.0	—	—	1	—	NO PARKING ANY TIME
134+46.5	R1-1	—	1	1	
134+46.5	—	—	1	—	STOP AT LINE
134+89.9	S1-1	—	1	1	
135+33.2	R7-4	—	1	1	NO PARKING ANYTIME
136+05.2	R2-1	—	1	1	SPEED LIMIT 35 MPH
136+24.2	R2-1	—	1	1	SPEED LIMIT 25 MPH
137+32.7	R1-1	—	1	1	STOP
137+66.6	R7-52	—	1	1	NO PARKING BETWEEN SIGNS
137+88.0	R7-4	—	1	1	NO PARKING ANYTIME
140+61.0	R1-1	—	1	1	STOP
140+97.6	R1-1	—	1	1	STOP
142+07.7	R2-5A	—	1	1	REDUCE SPEED AHEAD
142+07.7	W13-1	—	1	—	25 MPH
143+32.0	S1-1	—	1	1	
143+87.4	R1-1	—	1	1	STOP
147+79.2	R1-1	—	1	1	STOP
150+81.9	R1-1	—	1	1	STOP
151+54.6	R2-1	—	1	1	SPEED LIMIT 35 MPH
152+11.4	R2-1	—	1	1	SPEED LIMIT 35 MPH
TOTALS		3	38	30	

PERMANENT SIGNING

LOCATION	SIGN CODE	SIZE WXH	634.0812	637.2210	REMARKS
			POSTS TUBULAR STEEL 2X2-INCH 12-FOOT EACH	SIGNS REFLECTIVE TYPE II SF	
130+58.3	R1-6	12X36	1	3.00	
130+66.2	R1-6	12X36	1	3.00	
131+03.1	R1-1	36X36	1	9.00	STOP
131+98.8	OM3-L	12X36	1	3.00	
132+23.6	OM3-R	12X36	1	3.00	
132+46.0	OM3-R	12X36	1	3.00	
132+60.3	OM3-L	12X36	1	3.00	
132+62.0	R1-6	12X36	1	3.00	
132+72.9	R1-6	12X36	1	3.00	
132+89.6	R5-1	30X30	1	6.25	DO NOT ENTER
133+12.8	R7-4	12X18	1	1.50	NO PARKING ANY TIME
133+82.7	R2-1	30X36	1	7.50	SPEED LIMIT 25 MPH
133+82.7	R7-4	12X18	1	1.50	NO PARKING ANY TIME
134+40.1	R1-1	36X36	1	9.00	STOP
134+68.1	W1-7	48X24	1	8.00	ARROW BOARD
134+83.8	R4-7	18X24	1	3.00	KEEP RIGHT
135+33.6	S1-1	36X36	1	9.00	
135+69.9	R4-7	18X24	1	3.00	KEEP RIGHT
136+24.1	R2-1	30X36	1	7.50	SPEED LIMIT 25 MPH
136+24.5	R7-4	12X18	—	1.50	NO PARKING ANY TIME
137+30.3	R1-1	36X36	1	9.00	STOP
137+66.6	R7-52	18X24	1	3.00	NO PARKING BETWEEN SIGNS
137+54.9	R1-1	36X36	1	9.00	STOP
137+88.2	R7-4	12X18	1	1.50	NO PARKING ANY TIME
140+57.1	R1-1	36X36	1	9.00	STOP
140+99.1	R1-1	36X36	1	9.00	STOP
142+07.5	W3-5	30X30	1	6.25	REDUCE SPEED AHEAD 25 MPH
143+33.0	S1-1	36X36	1	9.00	
143+87.3	R1-1	36X36	1	9.00	STOP
144+05.5	W1-7	48X24	1	8.00	ARROW BOARD
147+77.5	R1-1	36X36	1	9.00	STOP
147+97.8	W1-7	48X24	1	8.00	ARROW BOARD
150+58.1	W1-7	48X24	1	8.00	ARROW BOARD
150+79.9	R1-1	36X36	1	9.00	STOP
151+50.0	R2-1	30X36	1	7.50	SPEED LIMIT 35 MPH
152+11.3	R2-1	30X36	1	7.50	SPEED LIMIT 35 MPH
TOTALS			35	212.50	

3

3

MARKERS CULVERT END

FIELD OFFICE TYPE B		633.5200	
LOCATION	EACH	STA	EACH
PROJECT (14-3775(11))	1	131+98, 30.3' LT	1
		132+38, 32.7' LT	1
		133+06, 34.4' LT	1
		134+13, 39.4' LT	1
		141+00, 26.0 LT	1
TOTAL	1	TOTAL	5

APRON ENDWALL AND CULVERT PIPE STEEL

STA	521.0115	521.1015
	CULVERT PIPE CORRUGATED STEEL 15-INCH LF	APRON ENDWALLS FOR CULVERT PIPE STEEL 15-INCH EACH
141"C'+08 RT	18	2
146"C'+43 RT	18	2
TOTAL	36	4

ADJUSTING AND RECONSTRUCTING SANITARY MANHOLE COVERS

STA	LOCATION	611.8110	611.0420
		SANITARY EACH	RECONSTRUCT EACH
130"C'+66.9	RT	1	—
130"C'+94.0	RT	1	—
131"C'+42.9	RT	—	1
132"C'+75.8	RT	—	1
134"C'+58.6	RT	—	1
135"C'+86.6	RT	1	—
137"C'+48.9	RT	1	—
137"C'+56.5	RT	1	—
139"C'+75.2	RT	—	1
143"C'+76.4	RT	1	—
147"C'+95.5	RT	1	—
149"C'+14.0	RT	1	—
149"C'+14.1	LT	1	—
151"C'+22.2	RT	1	—
152"C'+35.8	LT	1	—
TOTAL		11	4

* COMBINED QUANTITY, ADDITIONAL QUANTITIES FOUND ELSEWHERE IN PLANS.

STORM SEWER QUANTITIES

STRUCTURE NO.	LOCATION	RIM/FLOW ELEVATION	BOTTOM OF STRUCTURE ELEVATION	STRUCTURE DEPTH	INLET WITH SUMP		INLET COVERS			MANHOLE	MANHOLE WITH SUMP	MANHOLE COVERS
					2X2.5-FT 611.3225 EACH	MEDIAN 1 GRATE 611.3901 EACH	TYPE MS 611.0642 EACH	TYPE T 611.0652 EACH	TYPE WM 611.0660 EACH	TYPE MM SPV.0060.701 EACH	4-FT DIA. 611.2004 EACH	TYPE J 611.0530 EACH
					1.0	131+98, 30.3' LT	—	—	—	—	—	—
2.0	131+95, 10.3' LT	889.30	884.45	6.85	1	—	—	—	1	—	—	—
2.1	131+95, 24.3' RT	889.30	885.19	6.11	1	—	—	—	1	—	—	—
3.0	132+98, 41.6' LT	887.46	884.2	6.26	—	—	—	—	—	1	—	1
3.1	132+38, 32.6' LT	—	—	—	—	—	—	—	—	—	—	—
3.2	132+97, 43.0' LT	—	—	—	—	—	—	—	—	—	—	—
4.0	132+98, 11.0' LT	888.72	884.36	6.22	1	—	—	—	1	—	—	—
4.1	133+08, 11.6' LT	888.76	884.45	6.31	1	—	—	—	1	—	—	—
5.0	132+98, 26.5' RT	888.67	884.88	5.79	1	—	—	—	1	—	—	—
5.1	133+08, 27.7' RT	888.66	885.00	5.66	1	—	—	—	1	—	—	—
6.0	134+21, 42.2' LT	890.40	885.14	7.26	—	—	—	—	—	1	—	1
6.1	134+00, 45.2' LT	—	—	—	—	—	—	—	—	—	—	—
6.2	134+44, 38.8' LT	889.66	885.20	6.34	1	—	—	—	1	—	—	—
6.3	134+77, 38.2' LT	889.63	885.37	6.10	1	—	—	—	1	—	—	—
7.0	134+21, 5.0' LT	889.99	885.39	4.61	—	—	—	—	—	1	—	1
8.0	135+14, 5.0' LT	892.15	885.92	6.23	—	—	—	—	—	1	—	1
8.1	135+14, 17.3' LT	892.39	887.89	6.50	1	—	—	—	1	—	—	—
8.2	134+98, 17.3' LT	891.34	888.12	5.22	1	—	—	—	1	—	—	—
9.0	137+25, 5.0' LT	901.30	896.55	4.75	—	—	—	—	—	1	—	1
9.1	137+25 34.9' LT	901.91	895.94	5.97	—	1	1	—	1	—	—	—
9.2	137+65, 34.9' LT	904.31	896.04	8.27	—	1	1	—	—	—	—	—
9.3	137+42, 34.9' LT	903.15	895.70	7.45	—	—	—	—	—	1	—	1
10.0	138+09, 5.0' LT	906.19	901.20	4.99	—	—	—	—	—	1	—	1
10.1	138+08, 13.1' LT	906.22	902.18	6.04	1	—	—	—	1	—	—	—
11.0	139+20, 5.0' LT	913.01	906.79	6.22	—	—	—	—	—	1	—	1
11.1	139+20, 21.5' LT	912.60	907.41	7.19	—	1	1	—	—	—	—	—
12.0	140+50, 5.0' LT	919.36	913.27	6.09	—	—	—	—	—	1	—	1
12.1	140+50, 31.8' LT	918.41	913.89	6.53	—	1	1	—	—	—	—	—
13.0	141+00, 26.0' LT	—	—	—	—	—	—	—	—	—	—	—
TOTAL					11	4	4	0	12	1	8	9

STORM SEWER QUANTITIES

FROM STRUCTURE NO.	TO STRUCTURE NO.	% SLOPE	STORM SEWER PIPE REINFORCED CONCRETE		APRON ENDWALL	
			CLASS IV 15-INCH 608.0414 LF	CLASS III 18-INCH 608.0318 LF	15-INCH 522.1015 EACH	18-INCH 522.1018 EACH
			1.0	2.0	1.52	20.3
2.0	2.1	2.00	34.5	—	—	—
3.0	3.1	2.32	—	51.7	—	1
3.0	3.2	0.50	—	8.1	—	1
4.0	4.1	0.50	10.0	—	—	—
4.0	5.0	1.00	37.5	—	—	—
5.0	5.1	1.00	10.1	—	—	—
6.0	6.1	0.50	—	21.3	—	1
6.0	6.2	0.50	23.1	—	—	—
6.2	6.3	0.50	33.5	—	—	—
6.0	7.0	0.50	—	37.2	—	—
7.0	8.0	0.50	—	93.3	—	—
8.0	8.1	1.00	12.3	—	—	—
8.1	8.2	1.00	16.8	—	—	—
8.0	9.0	5.00	—	211.1	—	—
9.0	9.3	0.50	28.0	—	—	—
9.1	9.3	0.50	16.6	—	—	—
9.2	9.3	0.83	23.1	—	—	—
9.0	10.0	5.25	—	83.1	—	—
10.0	10.1	2.25	8.1	—	—	—
10.0	11.0	5.00	—	111.7	—	—
11.0	11.1	2.50	16.5	—	—	—
11.0	12.0	5.00	—	129.7	—	—
12.0	12.1	2.00	26.9	—	—	—
12.1	13.0	2.50	54.1	—	1	—

STRUCTURE DEPTH = RIM/ FLOW ELEV-BOTTOM OF STR ELEV
 LOCATION IS TO CENTER OF STRUCTURE OR END OF PIPE RUN.
 ALL MANHOLE AND INLET STRUCTURES REQUIRE 2' SUMP

SERVICE	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED		603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED		643.0300 DRUMS		643.0410 BARRICADES TYPE II		643.0420 BARRICADES TYPE III		643.0500 FLEXIBLE TUBULAR MARKER POSTS	643.0600 FLEXIBLE TUBULAR MARKER BASES	643.0705 WARNING LIGHTS TYPE A		643.0715 WARNING LIGHTS TYPE C		643.0900 TRAFFIC CONTROL SIGNS		
	DAY	LF	LF	NO.	DAY	NO.	DAY	NO.	DAY	NO.	DAY	EACH	EACH	NO.	DAY	NO.	DAY	NO.	DAY
	STAGE 1	82	72	72	31	2542	4	328	13	1066		45	45	24	1968	27	2214	10	820
STAGE 2	62	72	72	120	7440	2	124	12	744		45	45	21	1302	54	3348	8	496	
STAGE 3	25	0	0	312	7800	0	0	0	0		0	0	0	0	0	0	0	0	0
STAGE 4	8	0	0	70	560	0	0	0	0		0	0	0	0	0	0	0	0	0
STAGE 5	21	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
UNDISTRIBUTED		7	7		254		33		107		5	5		197		221		82	
TOTAL	198	151	151		18596		485		1917		95	95		3467		5783		1398	

* COMBINED QUANTITY, ADDITIONAL QUANTITIES FOUND ELSEWHERE IN PLANS.

522.0360 CULVERT PIPE REINF. CONC CLASS IV 60-INCH		522.0360 CULVERT PIPE REINF. CONC CLASS IV 60-INCH	
LOCATION	LF	LOCATION	LF
BARK RIVER MILL RACE	146	BARK RIVER MILL RACE	146
TOTAL	146	TOTAL	146

MILL RACE ITEMS			
522.0360 CULVERT PIPE REINF. CONC CLASS IV 60-INCH		513.7084.01 RAILING PEDESTRIAN	SPV.0060.401 CONCRETE ENDWALL 2X60 RCP
LOCATION	LF	LF	EA
BARK RIVER MILL RACE	146	35	2
TOTAL	146	35	2

LIGHTING ITEMS							
653.0125 PULL BOXES STEEL 18X30- INCH		654.0101 CONCRETE BASES TYPE 1	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL	656.0200 ELECTRICAL SERVICE METER BREAKER PEDESTAL	659.2124 LIGHTING CONTROL CABINET 120/240 24-INCH	SPV.0060.501 DECORATIVE LIGHTING POLE AND ACCESSORIES	SPV.0060.502 LED LUMINAIRES AND ACCESSORIES
LOCATION	LF	EA	EA	EA	EA	EA	EA
130+54 TO 137+15	5	12	1	1	1	12	15
TOTAL	5	12	1	1	1	12	15

LIGHTING CONDUIT AND WIRE			
652.0225 CONDUIT RIGID NON-METALLIC SCHEDULE 40 2- INCH		655.0610 ELECTRICAL WIRE LIGHTING 12 AWG	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG
LOCATION	LF	LF	LF
130+54 TO 137+15	937	937	1874
TOTAL	937	937	1874

LIGHTING CONDUIT

LOCATION		CENTER - CENTER DISTANCE
FROM	TO	LF
LCB1	LP11	3
LP2	LP1	55
LP2	EX-P73	72
PB2	LP5	6
LP3	LP2	60
PB3	LP2	24
PB3	LP6	43
PB4	LP8	27
PB4	LP9	35
LP11	PB4	77
PB6	LP10	38
PB6	PB5	64
PB7	LP3	41
PB7	LP4	49
LP7	PB3	60
LP8	LP7	70
LP11	LP12	74
LP12	LP13	70
LP13	LP14	69

* COMBINED QUANTITY, ADDITIONAL QUANTITIES FOUND ELSEWHERE IN PLANS.

CONVENTIONAL SIGNS AND ABBREVIATIONS

COUNTY LINE	=====
TOWNSHIP AND RANGE LINES	-----
SECTION LINE	-----
QUARTER LINE	-----
SIXTEENTH LINE	-----
NEW REFERENCE LINE	
NEW R/W LINE	=====
EXISTING R/W LINE	-----
PROPERTY LINE	-----
CORPORATE LIMITS	////// NAME ////
EASEMENT LINE	-----
TLE AND OTHER MINOR LINES	-----
SLOPE INTERCEPTS	
UNDERGROUND FACILITY (GAS, TELEPHONE, ELECTRIC, ETC.)	----- (TYPE)
FENCE	-x-x-x-x-
HAZARDOUS UTILITY SITE	
CULVERT (BOX, PIPE OR CATTLE PASS)	
RAIL LINE	-----
FOUNDATION OR RUIN	FDN.
BUILDING	TYPE
CEMETERY	CEMETERY
TELEPHONE PEDESTAL	IP
IRON PIN	o
VALVE	o VLV (TYPE)
SILLO, MANHOLE, VENT SEPTIC VENT, WELL, ETC.	o MH (TYPE)

	NON-COMPENSABLE	COMPENSABLE
SERVICE PEDESTAL		
POWER POLE		
TELEPHONE POLE		
SIGN		
NO ACCESS (BY ACQUISITION)		
NO ACCESS (BY STATUTORY AUTHORITY)
NO ACCESS (BY PREVIOUS PROJECT)	◆◆◆◆	◆◆◆◆
PERMANENT LIMITED EASEMENT		
TEMPORARY LIMITED EASEMENT		
FEE		
NON-MONUMENTED SURVEY POINT	o	

AC.	ACRE	LT.	LEFT
AH.	AHEAD	MI.	MILE
ALUM. MON.	ALUMINUM MONUMENT	PG.	PAGE
ANT.	ANTENNA	P.C.	POINT OF CURVATURE
A.P.	ACCESS POINT	P.E.	PRIVATE ENTRANCE
B.	BARN	PERM.	PERMANENT
BK.	BACK	P.I.	POINT OF INTERSECTION
B.M.	BENCH MARK	P.T.	POINT OF TANGENCY
C.	CHURCH	P.L.E.	PERMANENT LIMITED EASEMENT
C.E.	COMMERCIAL ENTRANCE	R.	RADIUS
C/L	CENTERLINE	R.D.E.	RESTRICTED DEVELOPMENT EASEMENT
CONC. MON.	CONCRETE MONUMENT	REM.	REMAINING
CONST.	CONSTRUCTION	REST.	RESTAURANT
C.P.	CULVERT PIPE	RT.	RIGHT
C.S.M.	CERTIFIED SURVEY MAP	R/W	RIGHT OF WAY
D.	DEGREE OF CURVE	S.	SHED
ETAL	AND OTHERS	S.D.	STORM DRAINAGE
F.E.	FIELD ENTRANCE	S.F.	SQUARE FEET
FRL.	FRACTIONAL	STA.	STATION
FT.	FEET	T	TANK
G.	GARAGE	TAV.	TAVERN
H.	HOUSE	TEMP.	TEMPORARY
L.	LENGTH OF CURVE	T.L.E.	TEMPORARY LIMITED EASEMENT
L.C.	LONG CHORD OF CURVE	VOL.	VOLUME
L.C.B.	LONG CHORD BEARING	W	WALL

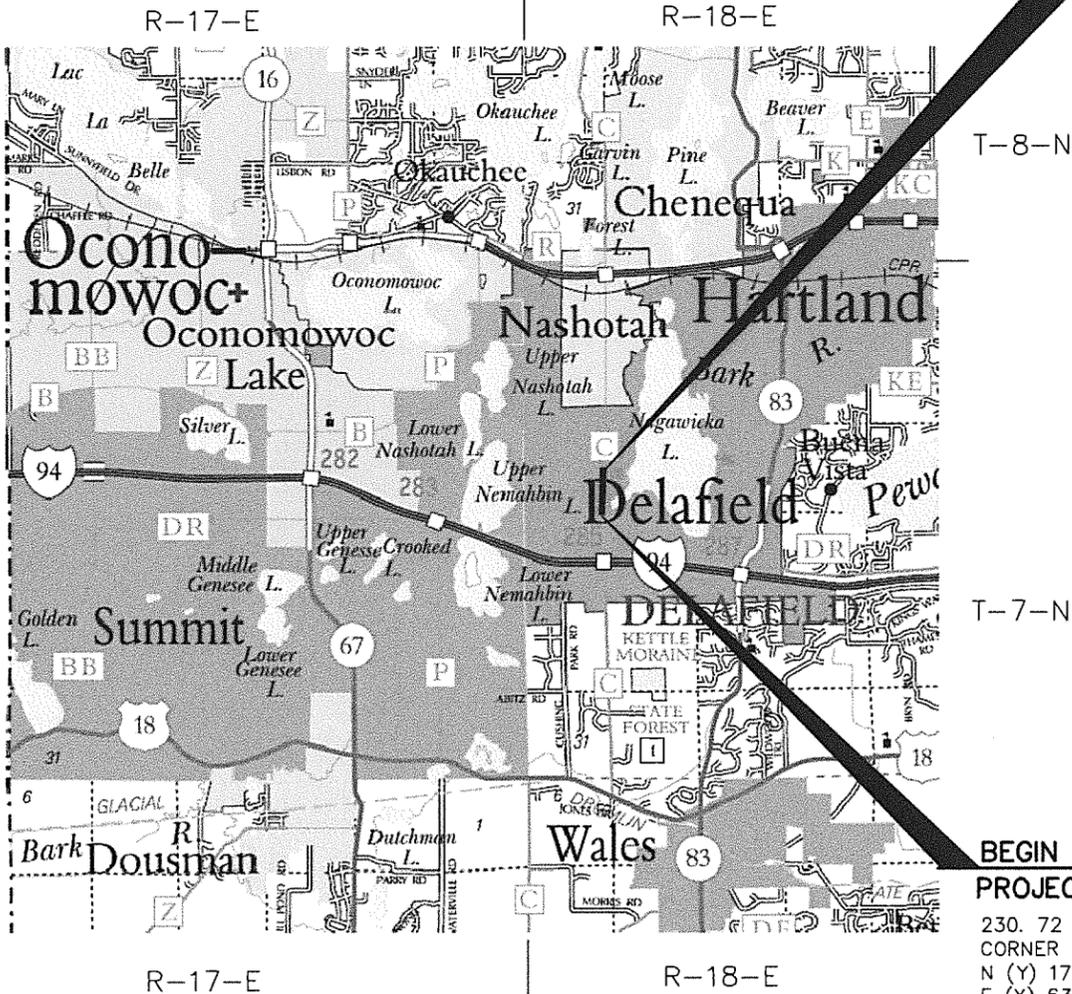
R/W PROJECT NUMBER 14-3775(11)	SHEET NUMBER 4.1	TOTAL SHEETS 10
FEDERAL PROJECT NUMBER		
PLAT OF RIGHT-OF-WAY REQUIRED FOR C.T.H. C (GENESEE ST) CITY OF DELAFIELD MILL ST TO OAKWOOD DR WAUKESHA COUNTY		
CONSTRUCTION PROJECT NUMBER 14-3775(11)		

NOTES:

BEARINGS ON THIS PLAT ARE ORIENTED TO GRID NORTH OF THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY, NAD83/2011 ADJUSTMENT. COORDINATES SHOWN ARE GRID COORDINATES AND MAY BE USED AS GRID OR GROUND VALUES ON THIS PLAT

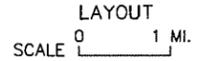
RIGHT-OF-WAY BOUNDARIES HEREON ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM AND/OR OTHER SURVEYS OF PUBLIC RECORD.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL/MONUMENTED LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING OWNERSHIP LINE, EXCLUDING RIGHT OF WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.



END RELOCATION ORDER
PROJECT ID: 14-3775(11) STA. 154+29.59
 100.72 FEET SOUTH & 3.00 FEET WEST OF THE NORTHWEST CORNER OF THE SOUTHWEST 1/4 OF SECTION 17, T.7N., R.18E.
 N (Y) 182057.20
 E (X) 637190.42

BEGIN RELOCATION ORDER
PROJECT ID: 14-3775(11) STA. 130+95.98
 230.72 FEET NORTH & 6.87 FEET EAST OF THE SOUTHWEST CORNER OF SECTION 17, T.7N., R.18E.,
 N (Y) 179778.62
 E (X) 637122.61



TOTAL NET LENGTH OF CENTERLINE = 0.44197 MI. (URBAN)

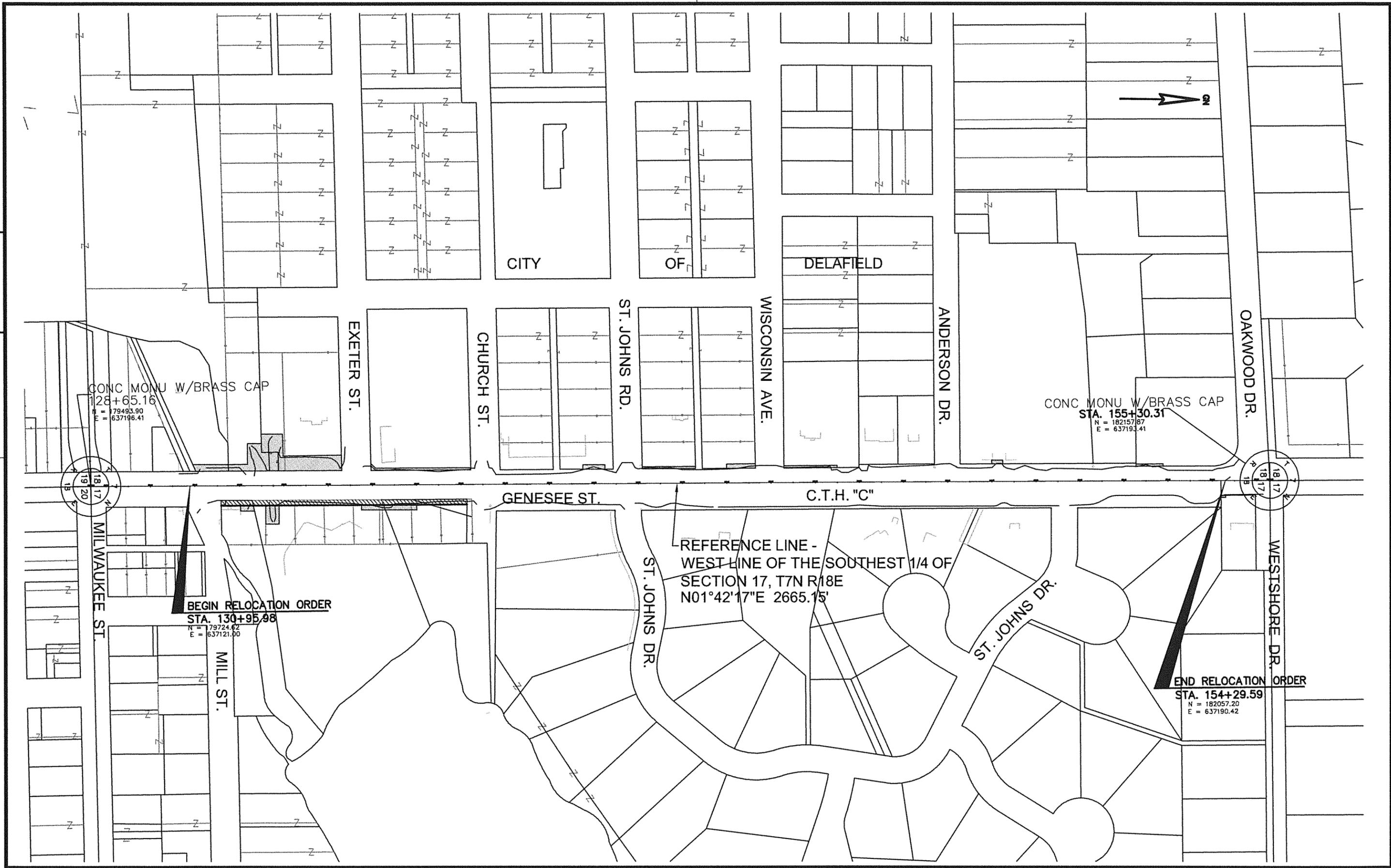
ACCEPTED FOR WAUKESHA COUNTY DEPARTMENT OF PUBLIC WORKS	
DATE _____	DIRECTOR _____
DATE _____	ENGINEERING SERVICE MANAGER _____



7/27/2015
DATE
James R. Beatty
PROFESSIONAL LAND SURVEYOR

4

4



REVISION DATE	DATE 07/27/2015	SCALE IN FEET 0 100 200	HWY: C.T.H. "C"	CONSTRUCTION PROJECT No. 14-3775(11)	PLAT SHEET NO.: 4.2	E
	GRID FACTOR: N/A		COUNTY: WAUKESHA	R/W PROJECT No. 14-3775(11)		

SCHEDULE OF LANDS & INTERESTS REQUIRED

AREAS SHOWN IN THE TOTAL AREA COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

PARCEL NO.	SHEET NO.	OWNER	TAX I.D.	INTEREST REQ'D.	TOTAL AREA ACRES	EASEMENT ACRES REQ'D.		R/W ACRES REQUIRED			TOTAL ACRES REM.
						T.L.E.	P.L.E.	NEW	EXIST.	TOTAL	
1	4.5	ROGER W. SALICK	DELC 0787 053	TLE	0.737	0.026	-	0.00	0.000	0.000	-
*2	4.5	CITY OF DELAFIELD	DELC 0793 987 003	TLE	26.078	0.096	-	0.00	0.000	0.000	-
3	4.5	ST. JOHNS MILITARY ACADEMY, INC	DELC 0792-058-001	PLE, TLE	1.45	0.048	0.113	0.00	0.000	0.000	-
4	4.5	CITY OF DELAFIELD	DELC 0787-053	FEE, TLE	0.579	.008	-	0.020	0.000	0.020	0.559
*5	4.5 & 4.6	CITY OF DELAFIELD	DELC 0793 987 003	FEE, TLE, HWY ESMT	26.078	0.042	-	0.081	0.316	0.397	25.681
6	4.6	CITY OF DELAFIELD	DELC 0787-998	FEE, TLE	0.452	0.018	-	0.053	0.000	0.053	0.399
*7	4.7	ST. JOHNS MILITARY ACADEMY, INC	DELC 0792-078	TLE	1.99	0.014	-	0.00	0.000	0.000	-
*8	4.7 & 4.8	ST. JOHNS MILITARY ACADEMY, INC	DELC 0792-078	TLE	1.99	0.015	-	0.00	0.000	0.000	-
9	4.8	ST. JOHNS MILITARY ACADEMY, INC	DELC 0792-992	TLE	0.93	0.014	-	0.00	0.000	0.000	-
12	4.9	DAVD B. LEEF	DELC 0792-018-004	TLE	4.43	0.004	-	0.00	0.000	0.000	-
14	4.10	LAFORE TRUST	DELC 0792-999	TLE	0.935	0.007	-	0.00	0.000	0.000	-
15	4.6	ST. JOHNS CHRYSOSTOM CHURCH	DELC 0792 988	TLE	1.88	0.027	-	0.00	0.000	0.000	-
16	4.7	ST. JOHNS MILITARY ACADEMY, INC	DELC 0792-066	TLE	1.99	0.012	-	0.00	0.000	0.000	-
17	4.10	DR. DANIEL T. MURRAY PROPERTY MANAGEMENT LLC	DELC 0787-999	TLE, HWY ESMT	0.514	0.001	-	0.00	0.000	0.000	-
101	4.5 & 4.6	DELAHART WPCC	-	RELEASE OF RIGHTS	-	-	-	-	-	-	-
102	4.5	WE-ENERGIES GAS	-	RELEASE OF RIGHTS	-	-	-	-	-	-	-

note: * - Indicates same owner and tax key parcel identification number separated by public right of way (2&5) and (7&8)

Owners names are shown for reference purposes only and are subject to change prior to the transfer interests to the department.

Total areas shown per tax records as supplied by title company and subject to change upon complete individual property surveys.

REVISION DATE	DATE 07/27/2015	HWY: C.T.H. "C"	CONSTRUCTION PROJECT No. 14-3775(11)
	GRID FACTOR: N/A	COUNTY: WAUKESHA	R/W PROJECT No. 14-3775(11)
			PLAT SHEET NO.: 4.3
			E

COURSE TABLES

ACQUISITION INFORMATION

ACQUISITION LINE TABLE				
PARCEL	TYPE	LINE	BEARING	LENGTH
1	TLE	323-324	S67°44'48"W	16.41'
1	TLE	324-325	N01°42'17"E	79.35'
1	TLE	325-322	S89°17'07"E	15.00'
1	TLE	322-323	S01°42'17"W	72.95'
2	TLE	322-325	N89°17'07"W	15.00'
2	TLE	325-326	N01°42'17"E	42.72'
2	TLE	326-327	N88°17'42"W	47.00'
2	TLE	327-328	N01°42'17"E	31.48'
2	TLE	328-329	S89°17'02"E	20.00'
2	TLE	329-330	N01°42'17"E	37.50'
2	TLE	330-331	S89°17'02"E	42.00'
2	TLE	331-322	S01°42'18"W	112.51'
3	TLE	378-330	N89°17'02"W	8.27'
3	TLE	330-329	S01°42'17"W	37.50'
3	TLE	329-332	N89°17'02"W	41.01'
3	TLE	332-333	N01°42'17"E	48.60'
3	TLE	333-334	S89°23'29"E	49.17'
3	TLE	334-378	S01°08'21"W	11.19'
3	PLE	336-331	S01°42'17"W	142.60'
3	PLE	331-378	N89°17'02"W	33.74'
3	PLE	378-335	N01°08'21"E	142.59'
3	PLE	335-336	S89°17'02"E	35.14'
4	TLE	308-307	S88°17'42"E	12.00'
4	TLE	307-306	N01°42'17"E	31.67'
4	TLE	306-304	S79°02'18"W	12.30'
4	TLE	304-308	S01°42'17"W	28.97'
4	FEE	305-302	S89°06'09"W	12.00'
4	FEE	302-303	N01°42'17"E	70.24'
4	FEE	303-304	N79°02'18"E	12.30'
4	FEE	304-305	S01°42'17"W	72.77'
5	TLE	312-311	S88°17'43"E	41.59'
5	TLE	311-310	N01°42'17"E	30.00'
5	TLE	310-309	N88°17'43"W	41.59'
5	TLE	309-312	S01°42'17"W	30.00'
5	FEE	303-313	N01°42'17"E	291.78'
5	FEE	313-316	N70°56'18"E	12.83'
5	FEE	316-304	S01°42'17"W	293.63'
5	FEE	304-303	S79°02'18"W	12.30'
5	TLE	316-317	N70°56'18"E	11.76'
5	TLE	317-318	S01°42'18"W	53.77'
5	TLE	318-319	N88°17'43"W	11.00'
5	TLE	319-316	N01°42'17"E	49.60'

ACQUISITION LINE TABLE				
PARCEL	TYPE	LINE	BEARING	LENGTH
6	TLE	317-316	S70°56'18"W	11.76'
6	TLE	316-320	N01°42'17"E	75.38'
6	TLE	320-321	S88°17'43"E	11.00'
6	TLE	321-317	S01°42'17"W	71.21'
6	FEE	313-314	N01°42'17"E	193.53'
6	FEE	314-315	S87°29'19"E	12.00'
6	FEE	315-316	S01°42'17"W	188.81'
6	FEE	316-313	S70°56'18"W	12.83'
15	TLE	337-338	N89°17'07"W	15.00'
15	TLE	338-377	N46°12'35"E	14.26'
15	TLE	377-339	N01°42'17"E	216.05'
15	TLE	339-340	S89°17'07"E	5.00'
15	TLE	340-337	S01°42'17"W	226.05'
16	TLE	343-344	S88°17'43"E	10.13'
16	TLE	344-341	S01°42'17"W	50.00'
16	TLE	341-342	N88°17'43"W	10.13'
16	TLE	342-343	N01°42'17"E	50.00'
7	TLE	345-346	N88°17'07"W	5.00'
7	TLE	346-347	N01°42'17"E	120.02'
7	TLE	347-348	N89°17'07"E	5.00'
7	TLE	348-345	S01°42'17"W	120.02'
8	TLE	349-350	N88°17'43"W	10.00'
8	TLE	350-351	N01°42'17"E	64.72'
8	TLE	351-352	S89°17'07"E	10.00'
8	TLE	352-349	S01°42'17"W	64.89'
9	TLE	353-354	N88°17'43"W	5.00'
9	TLE	354-355	N01°42'17"E	120.32'
9	TLE	355-356	S88°17'43"E	5.00'
9	TLE	356-353	S01°42'17"W	120.32'
12	TLE	357-358	N88°17'43"W	8.00'
12	TLE	358-359	N01°42'17"E	25.00'
12	TLE	359-360	S88°17'43"E	8.00'
12	TLE	360-357	S01°42'17"W	25.00'
14	TLE	373-374	N88°17'43"W	5.00'
14	TLE	374-375	N01°42'05"E	61.42'
14	TLE	375-376	S88°17'43"E	5.00'
14	TLE	376-373	S01°42'05"W	61.43'
17	TLE	361-362	N01°42'17"E	10.00'
17	TLE	362-363	S88°35'24"E	5.00'
17	TLE	363-364	S01°42'17"W	10.00'
17	TLE	364-361	N88°35'24"W	5.00'

ACQUISITION POINT COORDINATES

POINT #	NORTHING	EASTING
302	179785.6638	637155.8327
303	179855.8763	637157.9221
304	179858.2147	637169.9955
305	179785.4445	637169.8302
306	179860.5535	637182.07
307	179828.9	637181.13
308	179829.25	637169.13
309	179915.9471	637171.7132
310	179914.7099	637213.284
311	179884.7276	637212.3917
312	179885.9648	637170.8209
313	180147.5254	637166.6039
314	180340.9674	637172.3567
315	180340.4416	637184.3463
316	180151.7152	637178.7297
317	180155.5573	637189.849
318	180101.81	637188.25
319	180102.13	637177.25
320	180227.0782	637180.9726
321	180226.7509	637191.9677
322	179805.1761	637090.38
323	179732.2611	637088.21
324	179726.045	637073.0184
325	179805.3632	637075.379
326	179848.0606	637076.6497
327	179849.459	637029.6705
328	179880.9284	637030.607
329	179880.6785	637050.6104
330	179918.1619	637051.726
331	179917.637	637093.7275
332	179881.1909	637009.6075
333	179929.772	637011.0533
334	179929.2498	637060.2171

335	180060.6159	637062.8293
336	180060.1775	637097.9693
337	180126.1623	637099.933
338	180126.3494	637084.9342
339	180352.17	637101.6569
340	180352.1076	637106.6572
341	180604.2325	637114.1609
342	180604.5338	637104.0368
343	180654.5117	637105.5242
344	180654.2104	637115.6483
345	180739.0152	637118.1721
346	180739.0776	637113.1718
347	180859.0483	637116.7418
348	180858.9859	637121.7425
349	180929.0887	637123.8281
350	180929.3862	637113.8327
351	180994.0791	637115.7578
352	180993.9544	637125.7585
353	181058.7085	637127.6862
354	181058.8288	637122.6879
355	181179.1553	637126.2681
356	181178.9781	637131.2654
357	181529.0268	637134.6815
358	181529.2694	637126.6852
359	181554.2583	637127.4289
360	181554.0203	637135.4254
361	182046.195	637223.105
362	182056.1907	637223.4024
363	182056.0677	637228.401
364	182046.072	637228.1035
373	181856.2432	637151.4314
374	181856.4021	637146.4339
375	181917.7997	637148.2525
376	181917.6508	637153.2554
377	180136.2195	637095.2301
378	179918.06	637059.99

REVISION DATE

DATE 07/27/2015

HWY: C.T.H. "C"

CONSTRUCTION PROJECT No. 14-3775(11)

GRID FACTOR: N/A

COUNTY: WAUKESHA

R/W PROJECT No. 14-3775(11)

PLAT SHEET NO.: 4.4

E

4

4



EXETER ST.

ACE DELAFIELD PROPERTIES INC
6055 S PENNSYLVANIA AVE
CUDAHY WI 53110

RIVERS GATEWAY
PROPERTIES LLC

VILLAGE OF DELAFIELD
BLOCK B

ROGER W SALICK
REEL 690 IMAGE 442
TAX PIN: DELC 0792-057

CITY OF DELAFIELD
REEL 1291 IMAGE 893
TAX PIN: DELC 0793-987-003

VILLAGE OF DELAFIELD
BLOCK E

ST JOHNS MILITARY ACADEMY
REEL 2714 IMAGE 1269
TAX PIN: DELC 0792-058-001

EXISTING
BLDG

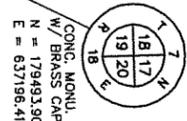
SLOPE INTERCEPT
(TYP.)

SLOPE INTERCEPT
(TYP.)

GENESEE ST. CTH "C"

WEST LINE OF THE SOUTHWEST 1/4 OF
SECTION 17 T7N R18E N01°42'17"E 2665.15'

128+65.16 129+00 130+00 131+00 132+00 133+00 134+00



MILWAUKEE ST.

BEGIN RELOCATION ORDER
STA. 130+95.93
N = 179724.62
E = 637121.00

GLENVENGH INVESTMENTS LLC

10' x 0' Gas Esmt.
DOC No. 567255
CITY OF DELAFIELD
DOC. NO. 4140681
TAX PIN: DELC 0787-053
0.020 AC.
WE-ENERGIES GAS
RELEASE OF RIGHTS
0.559 REM.

VILLAGE OF DELAFIELD
BLOCK C

DELAHART WPCC
RELEASE OF RIGHTS

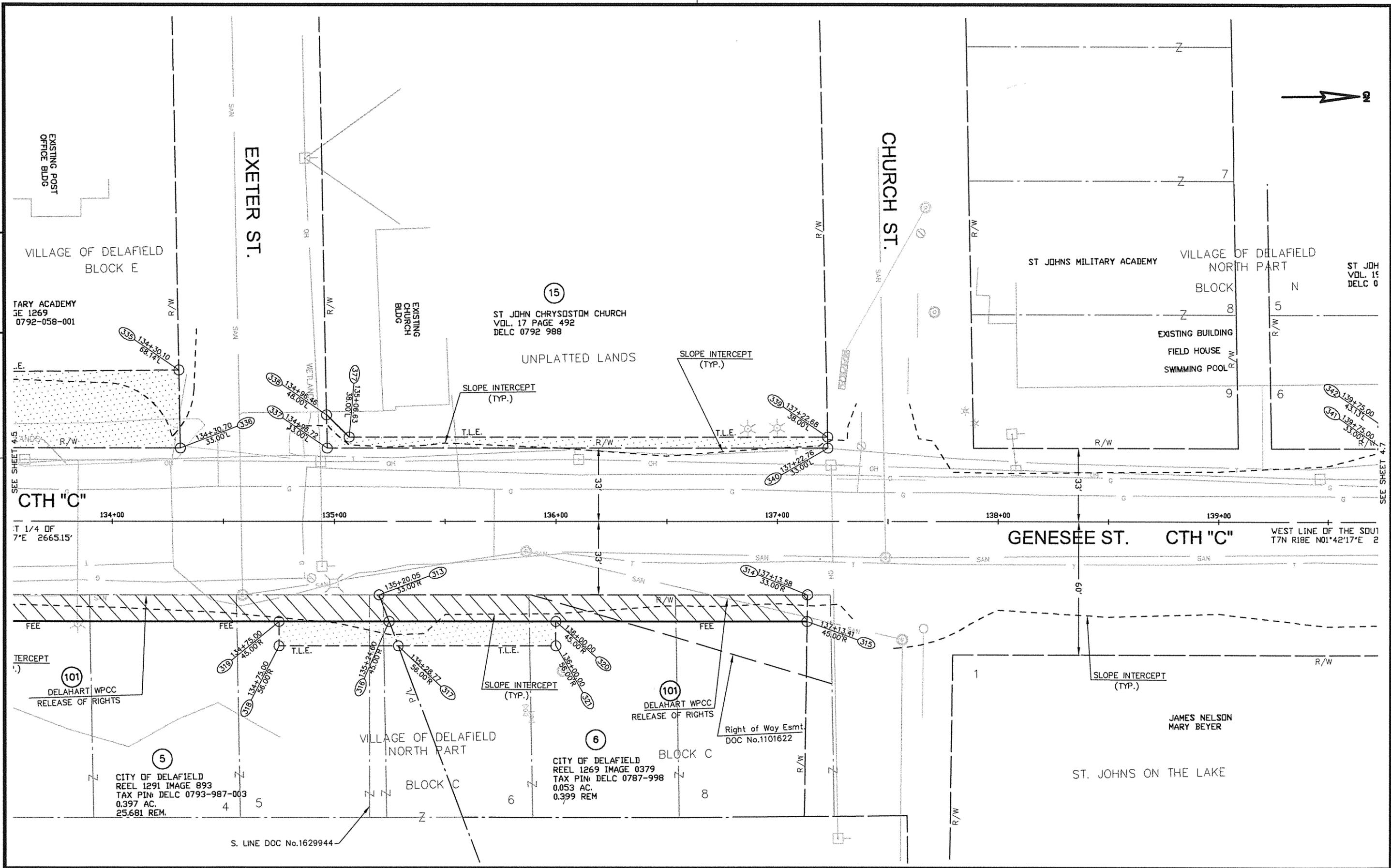
CITY OF DELAFIELD
REEL 1291 IMAGE 893
TAX PIN: DELC 0793-987-003
0.397 AC.
25.681 REM.

S. LINE DOC

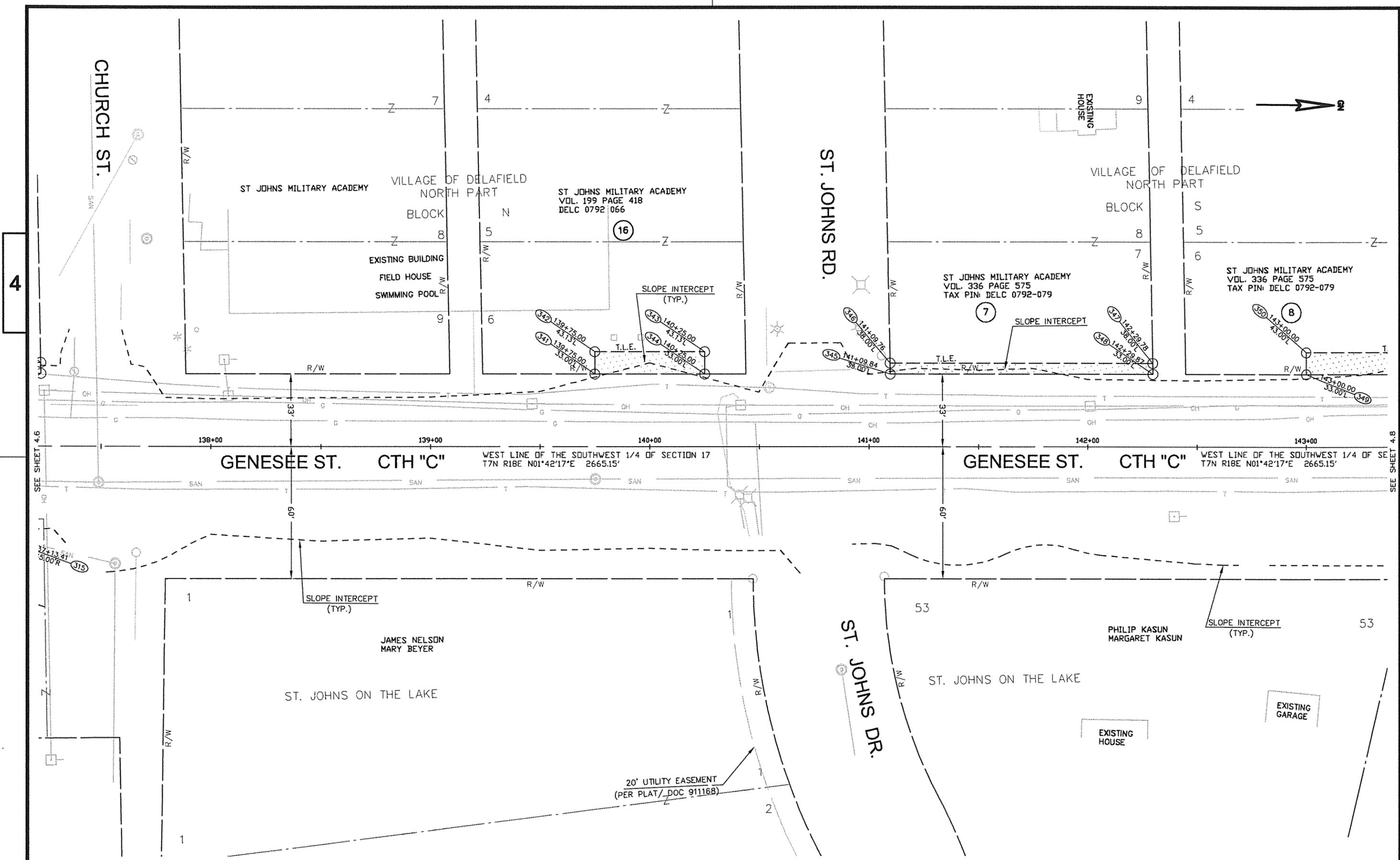
REVISION DATE	DATE 07/27/2015	SCALE IN FEET 0 20 40	HWY: C.T.H. "C"	CONSTRUCTION PROJECT No. 14-3775(11)	
	GRID FACTOR: N/A		COUNTY: WAUKESHA	R/W PROJECT No. 14-3775(11)	PLAT SHEET NO.: 4.5
					E

4

4



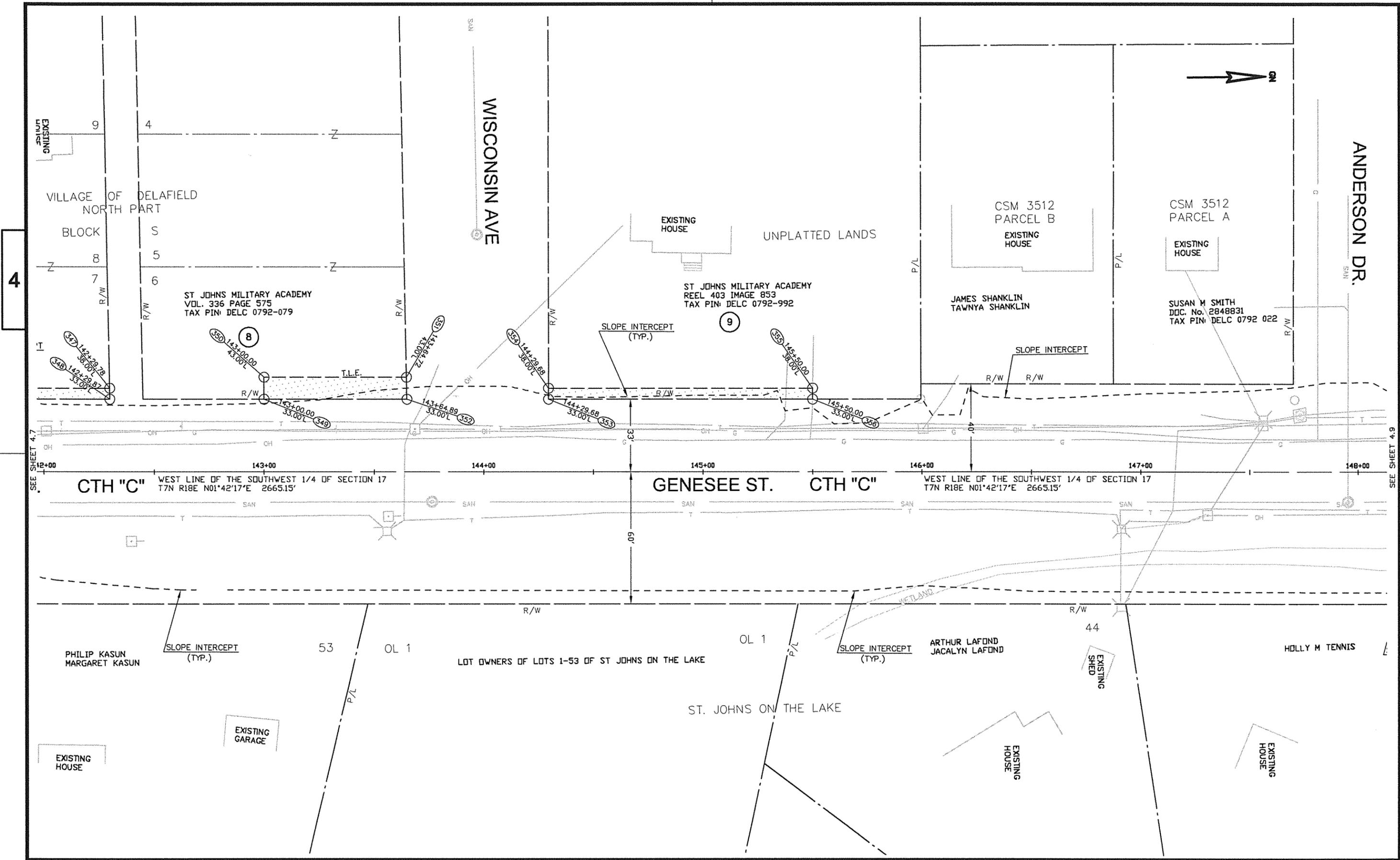
REVISION DATE	DATE 07/27/2015	SCALE IN FEET 0 20 40	HWY: C.T.H. "C"	CONSTRUCTION PROJECT No. 14-3775(11)	
	GRID FACTOR: N/A		COUNTY: WAUKESHA	R/W PROJECT No. 14-3775(11)	PLAT SHEET NO.: 4.6
					E



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4

REVISION DATE	DATE 07/27/2015	SCALE IN FEET 0 20 40	HWY: C.T.H. "C"	CONSTRUCTION PROJECT No. 14-3775(11)	
	GRID FACTOR: N/A		COUNTY: WAUKESHA	R/W PROJECT No. 14-3775(11)	PLAT SHEET NO.: 4.7
					E



4

4

REVISION DATE	DATE 07/27/2015	SCALE IN FEET 0 20 40	HWY: C.T.H. "C"	CONSTRUCTION PROJECT No. 14-3775(11)	PLAT SHEET NO.: 4.8	E
	GRID FACTOR: N/A		COUNTY: WAUKESHA	R/W PROJECT No. 14-3775(11)		



4

4

512
- A

ANDERSON DR.

CSM 9470
LOT 2

DAVID LEEF
REEL 820 IMAGE 368
DOC #3435679
TAX PIN: DELC 0792-018-004

12

CSM 6446
LOT 3

NORMAN & SHIRLEY SELTZER TRUST

UNPLATTED LA

LAFORE TRUST
REEL 1670 IMAGE 252
DOC #3607351
TAX PIN: DELC 0792-999

14

SMITH
#848831
DELC 0792 022

358 148+00.00
18.00'L

359 148+25.00
18.00'L

356 149+00.00
40.00'L

357 149+25.00
40.00'L

374 152+27.58
37.95'L

375 152+89.00
38.00'L

376 152+89.00
35.00'L

373 151+27.52
32.98'L

SEE SHEET 4.8

SEE SHEET 4.10

GENESEE ST. CTH "C"

GENESEE ST. CTH "C"

148+00

149+00

150+00

151+00

152+00

153+00

WETLAND

HOLLY M TENNIS

TERRY L GEIER
ANNE M WINTER-GEIER

EXISTING HOUSE

ST. JOHNS ON THE LAKE

20' UTILITY EASEMENT
(PER PLAT/ DOC 911168)

ST. JOHNS DR.

RICHARD L DAY
SALLY M DAY

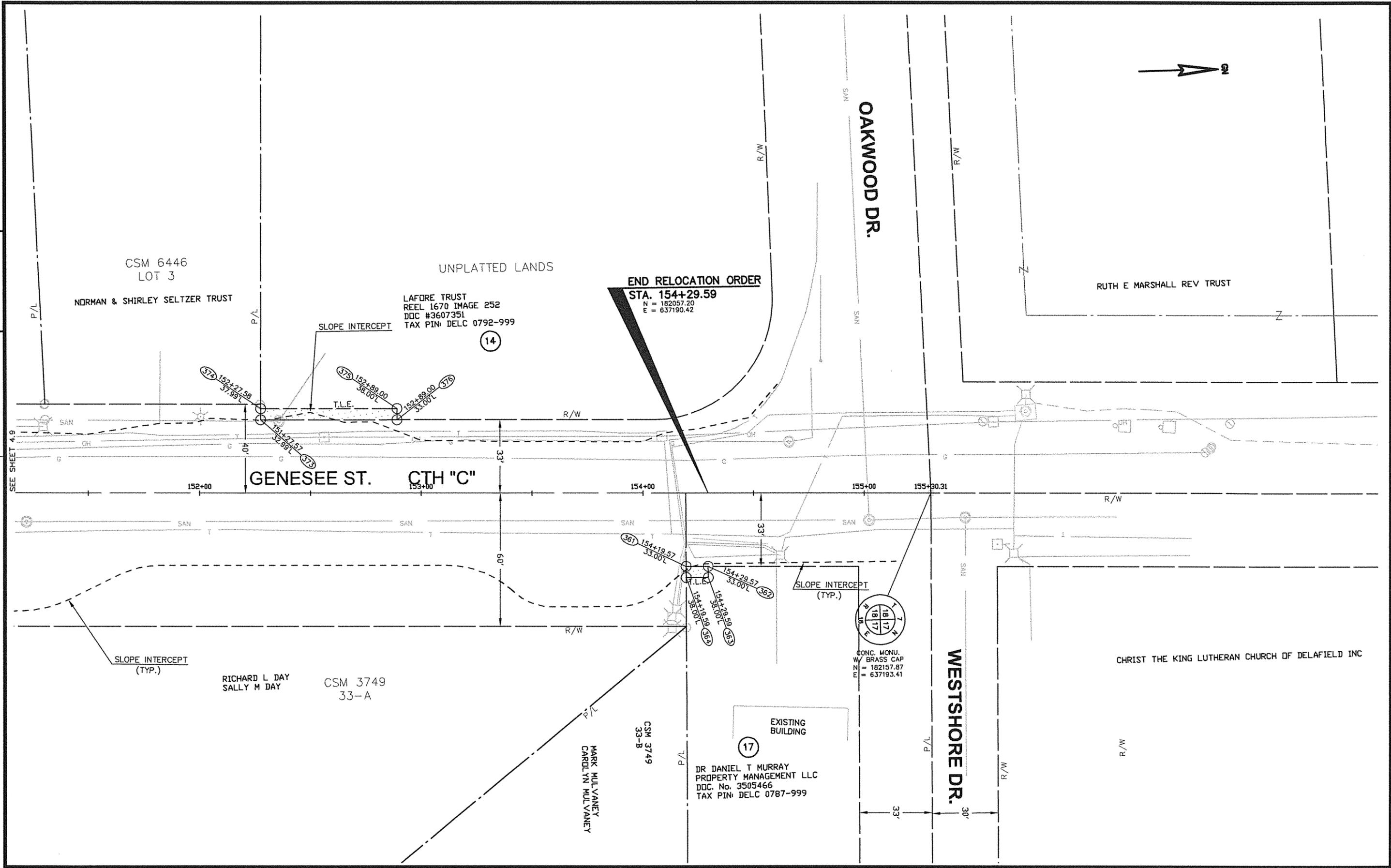
CSM 3749
33-A

REVISION DATE	DATE 07/27/2015	SCALE IN FEET 0 20 40	HWY: C.T.H. "C"	CONSTRUCTION PROJECT No. 14-3775(11)	
	GRID FACTOR: N/A		COUNTY: WAUKESHA	R/W PROJECT No. 14-3775(11)	PLAT SHEET NO.: 4.9
					E



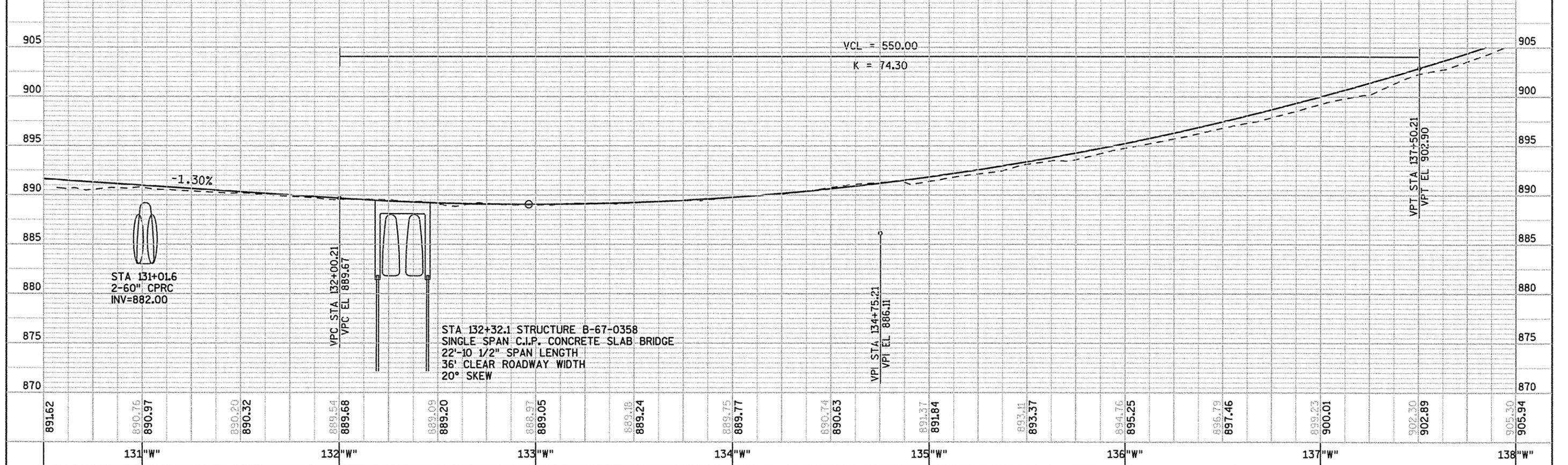
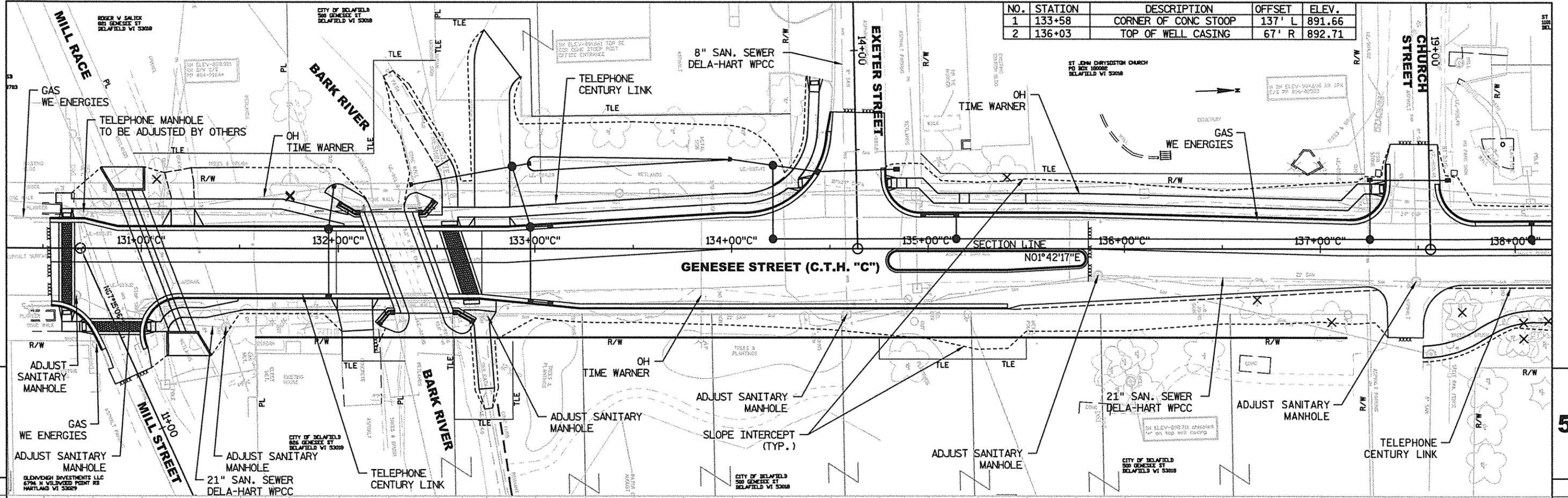
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REVISION DATE	DATE 07/27/2015	SCALE IN FEET 0 20 40	HWY: C.T.H. "C"	CONSTRUCTION PROJECT No. 14-3775(11)	
	GRID FACTOR: N/A		COUNTY: WAUKESHA	R/W PROJECT No. 14-3775(11)	PLAT SHEET NO.: 4.10
					E

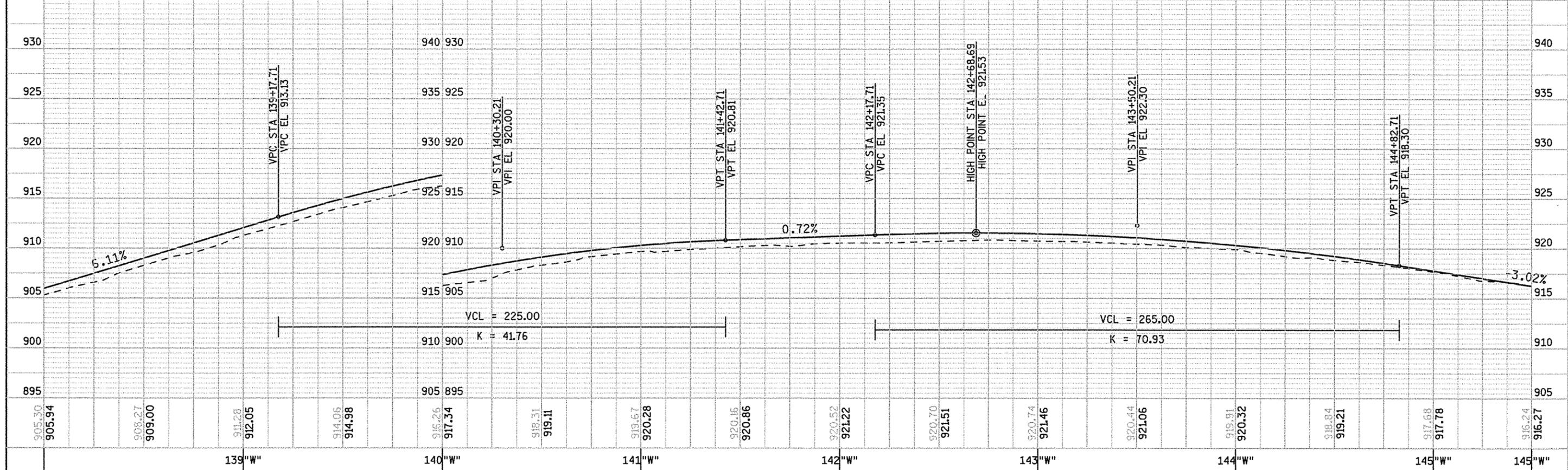
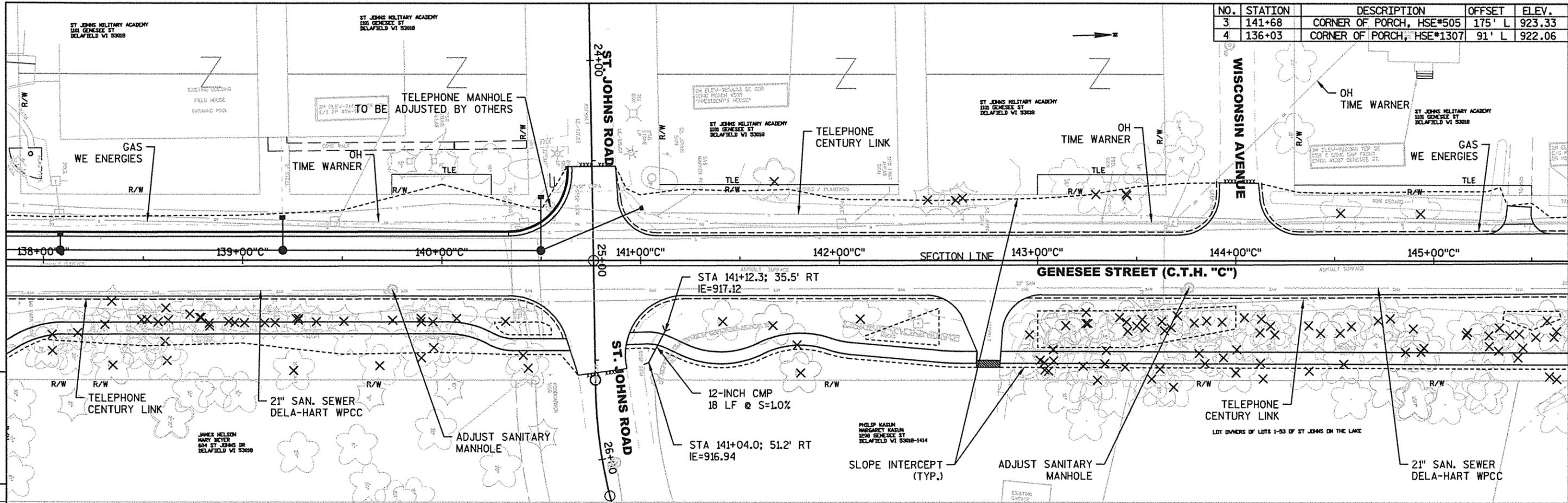
NO.	STATION	DESCRIPTION	OFFSET	ELEV.
1	133+58	CORNER OF CONC STOOP	137' L	891.66
2	136+03	TOP OF WELL CASING	67' R	892.71



891.62	890.76	890.97	890.20	890.32	889.54	889.68	889.09	889.20	888.97	889.05	889.18	889.24	889.75	889.77	890.74	890.63	891.37	891.84	893.11	893.37	894.76	895.25	896.79	897.46	899.23	900.01	902.30	902.89	905.30	905.94
131"W"		132"W"		133"W"		134"W"		135"W"		136"W"		137"W"		138"W"																

PROJECT NO:14-3775(11) HWY:CTH "C" COUNTY:WAUKESHA PLAN AND PROFILE:GENESEE STREET SHEET E

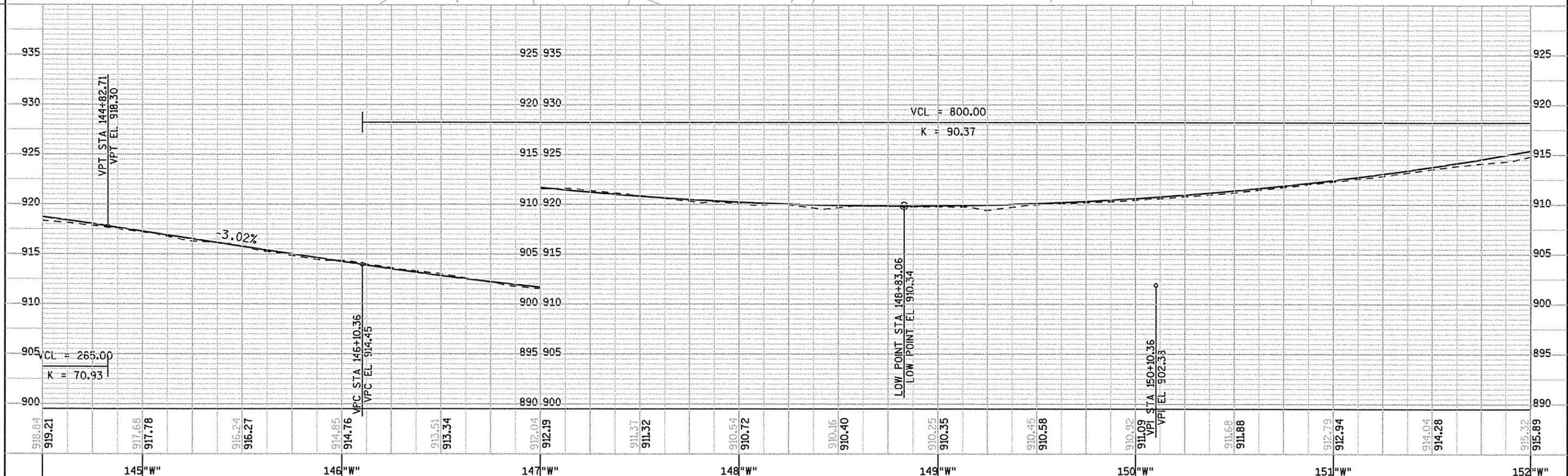
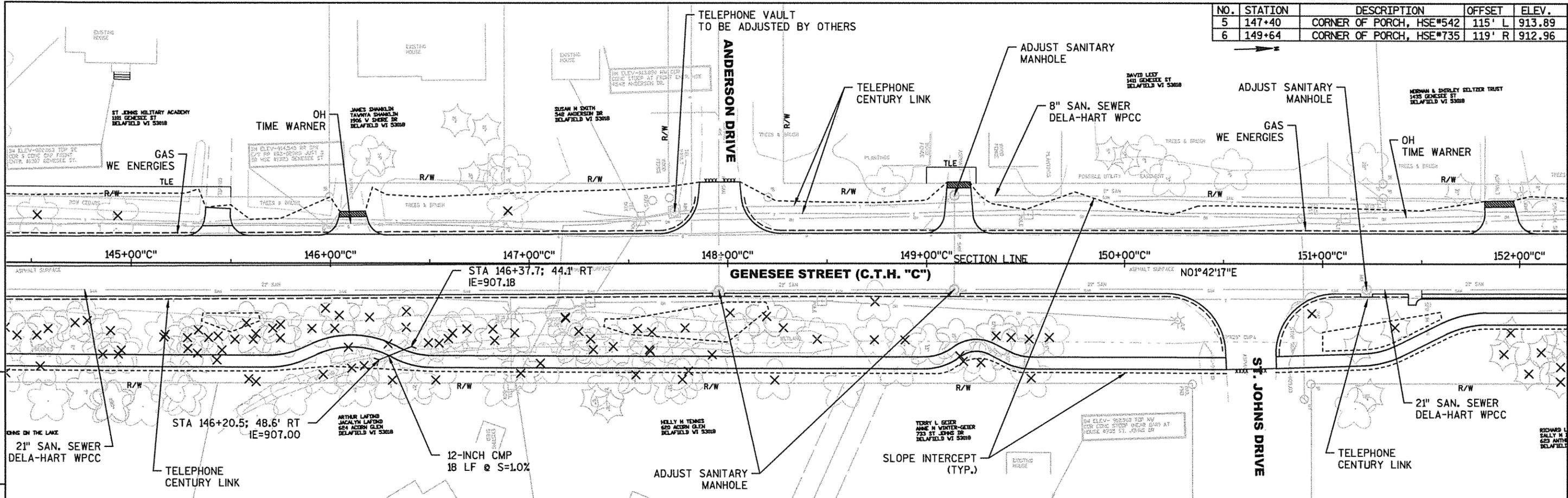
NO.	STATION	DESCRIPTION	OFFSET	ELEV.
3	141+68	CORNER OF PORCH, HSE#505	175' L	923.33
4	136+03	CORNER OF PORCH, HSE#1307	91' L	922.06



905.30	905.94	908.27	909.00	911.28	912.05	914.06	914.98	916.26	917.34	918.31	919.11	919.67	920.28	920.16	920.86	920.52	921.22	920.70	921.51	920.74	921.46	920.44	921.06	919.91	920.32	918.84	919.21	917.68	917.78	916.24	916.27				
				139"W					140"W					141"W					142"W					143"W					144"W					145"W	145"W

PROJECT NO:14-3775(11) HWY: CTH "C" COUNTY: WAUKESHA PLAN AND PROFILE: GENESSEE STREET SHEET E

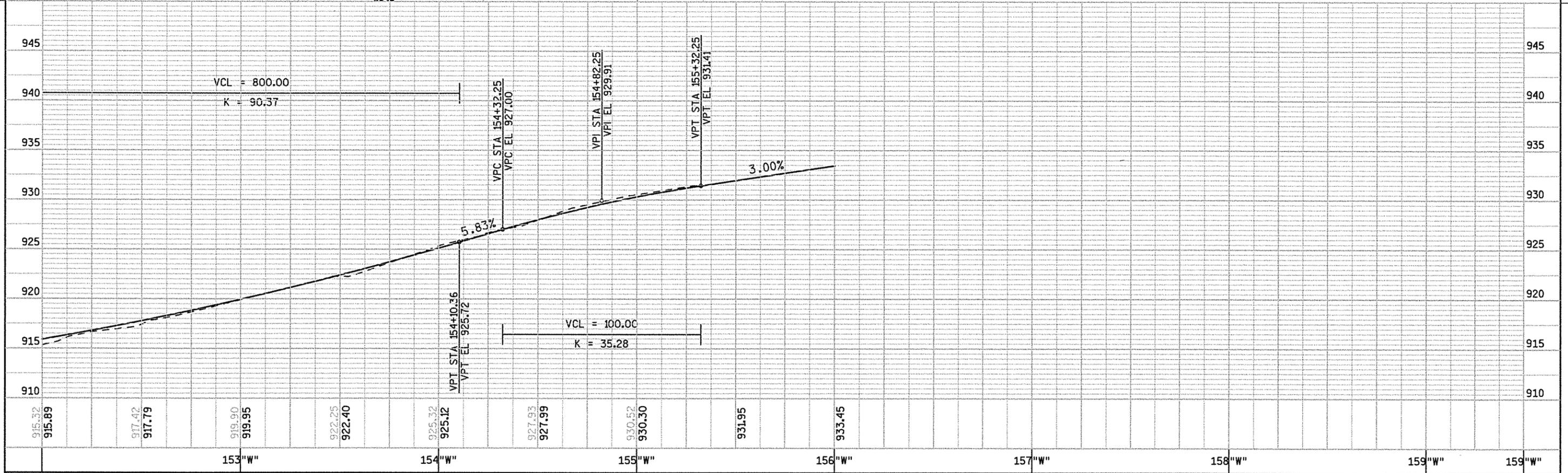
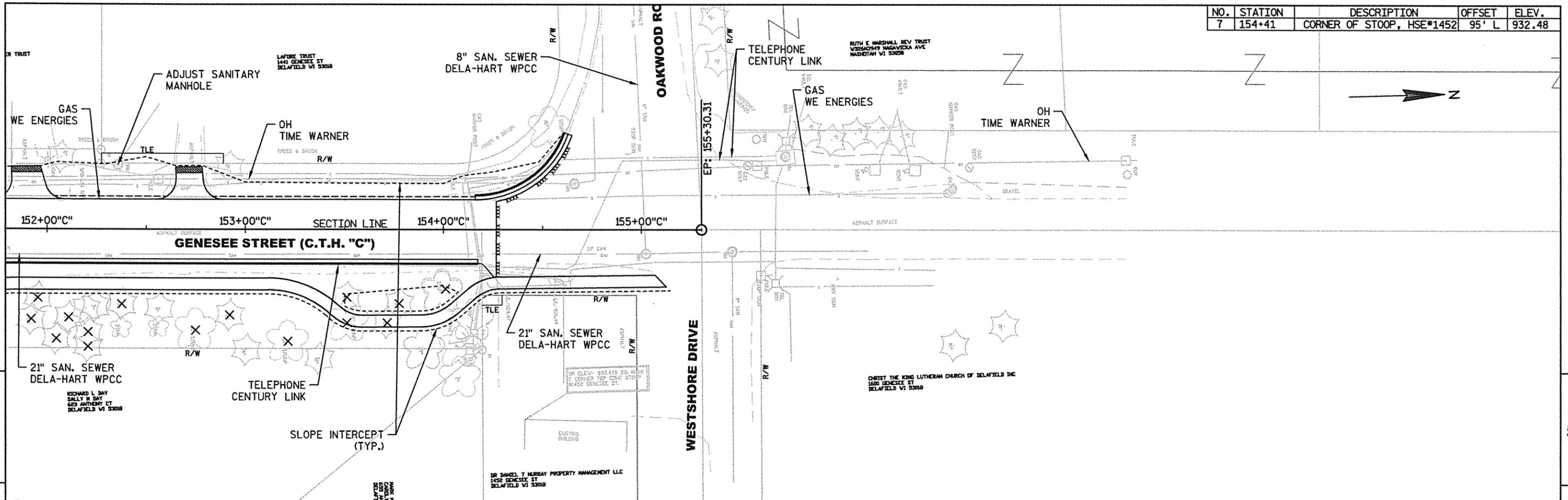
NO.	STATION	DESCRIPTION	OFFSET	ELEV.
5	147+40	CORNER OF PORCH, HSE#542	115' L	913.89
6	149+64	CORNER OF PORCH, HSE#735	119' R	912.96



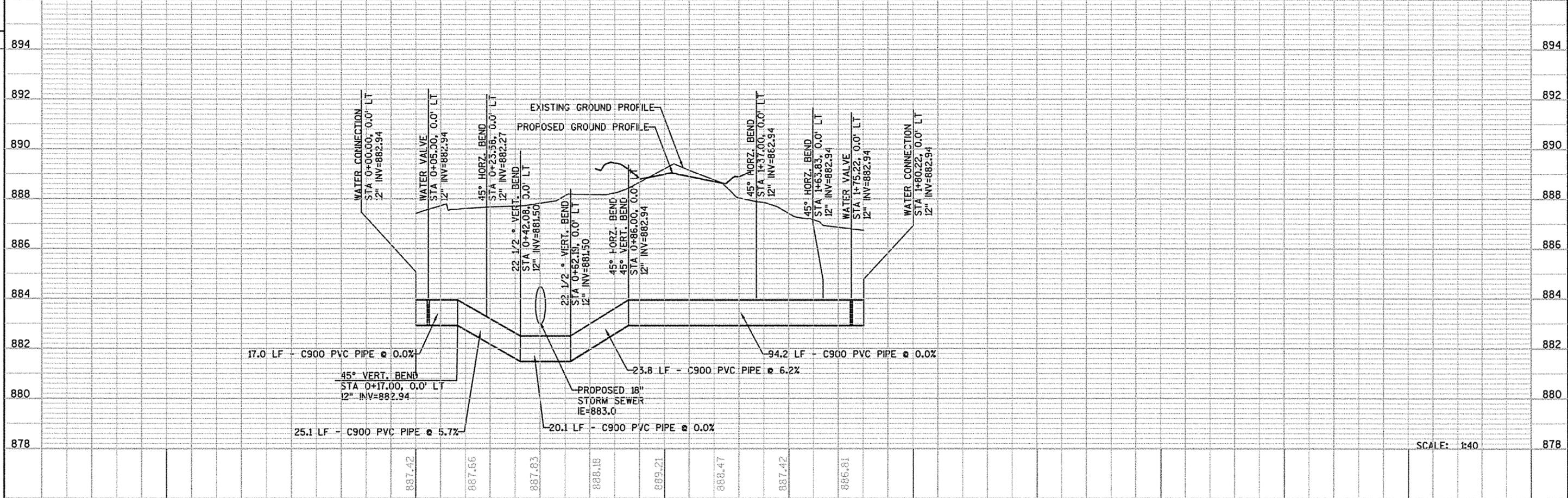
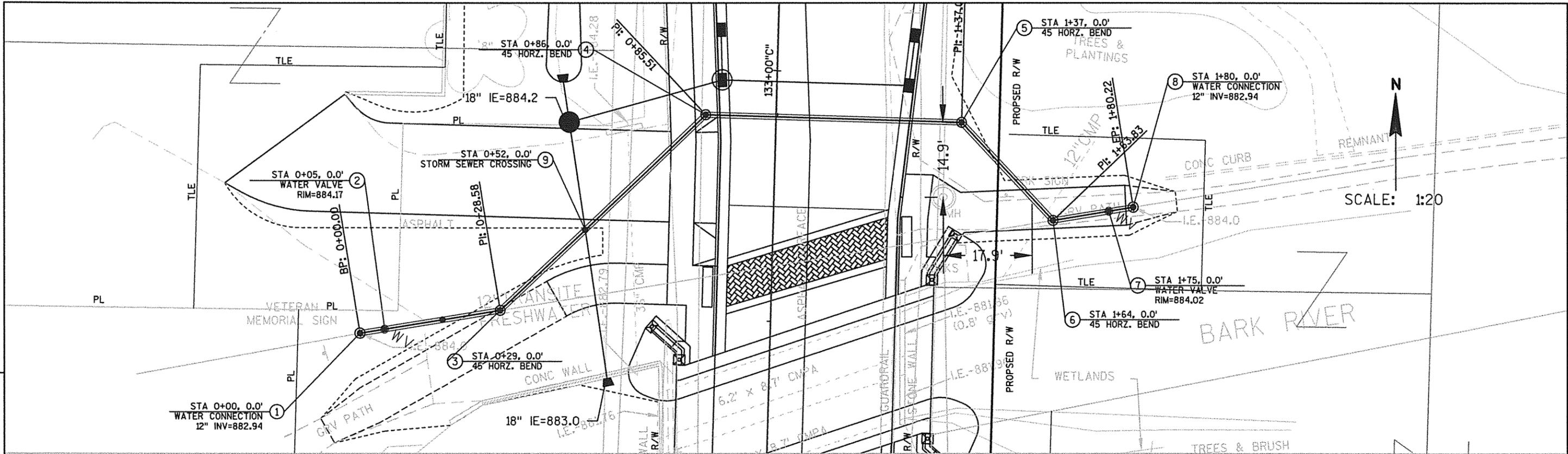
918.84	919.21	917.68	917.78	916.24	916.27	914.85	914.76	913.51	913.34	912.04	912.19	911.37	911.32	910.54	910.72	910.16	910.40	910.25	910.35	910.45	910.58	910.92	911.09	911.68	911.88	912.79	912.94	914.04	914.28	915.32	915.89
145"W"		146"W"		147"W"		148"W"		149"W"		150"W"		151"W"		152"W"																	

PROJECT NO: 14-3775(11) HWY: CTH "C" COUNTY: WAUKESHA PLAN AND PROFILE: GENESSEE STREET SHEET E

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
7	154+41	CORNER OF STOOP, HSE#1452	95' L	932.48



PROJECT NO: 14-3775(11)	HWY: CTH "C"	COUNTY: WAUKESHA	PLAN AND PROFILE: GENESSEE STREET	SHEET	E
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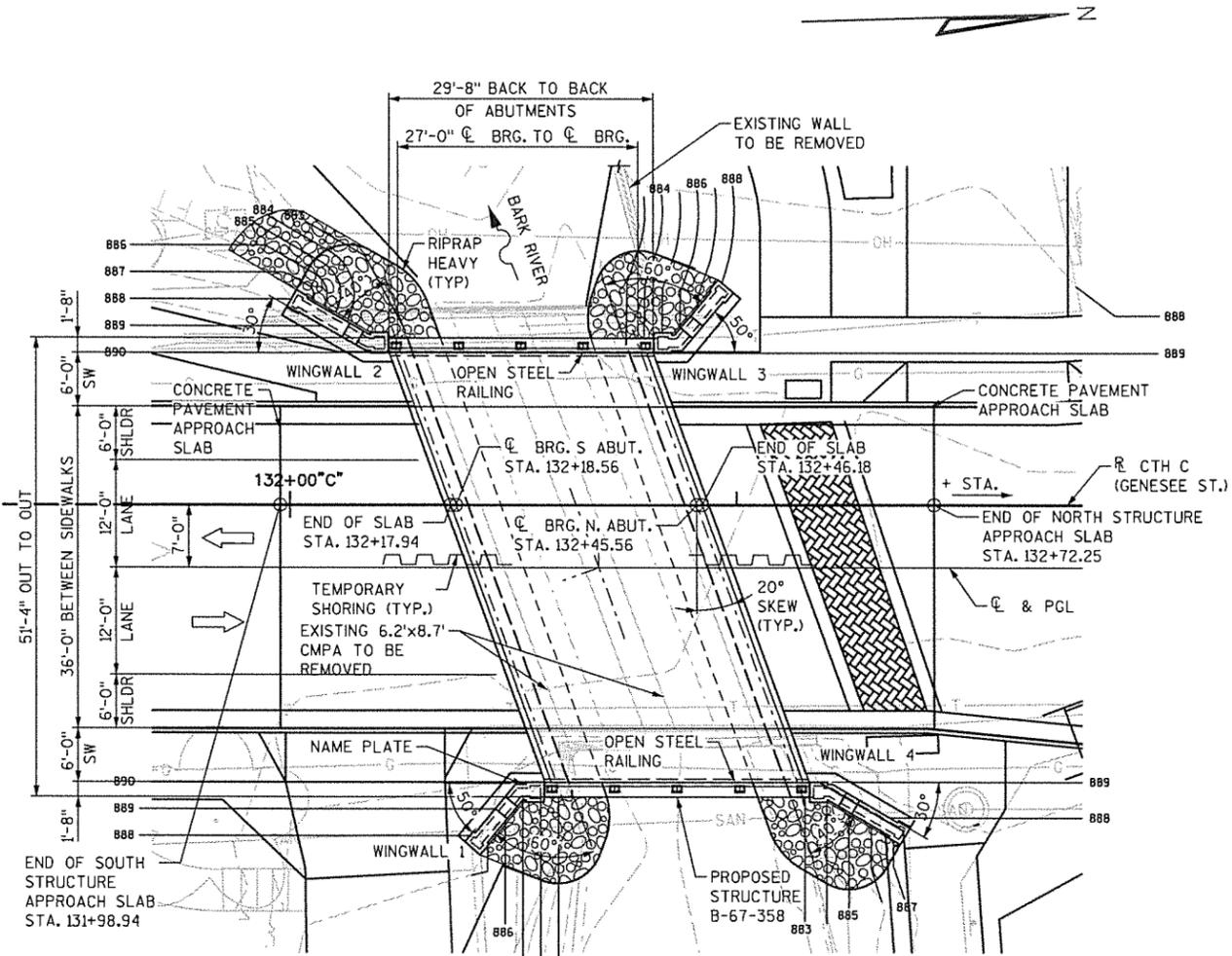


PROJECT NO:14-3775(11) HWY: CTH "C" COUNTY: WAUKESHA FRESHWATER SUPPLY RELAY SHEET E

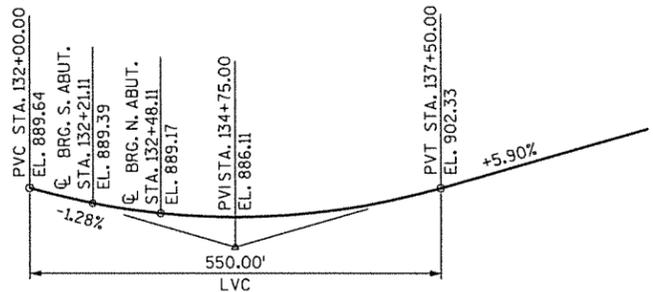
FILE NAME : S:\CAD PROJECTS\409-14 CTH C\SH\14-3775 (11) SHEET FRESH WATER.DWG PLOT DATE : PLOT BY : PLOT NAME : WISDOT/CADDS SHEET 45

EXISTING STRUCTURE:

THE EXISTING STRUCTURE CONSISTS OF DOUBLE 6.2'x8.7' CMPA CULVERTS



PLAN CTH C (GENESSEE STREET) BRIDGE
C.I.P. CONCRETE SLAB BRIDGE WITH C.I.P. CONCRETE ABUTMENTS



PROFILE GRADE LINE CTH C (GENESSEE STREET)

DESIGN DATA

LIVE LOAD: 14-3775(11)

DESIGN LOADING: HL-93
 INVENTORY RATING FACTOR: RF = 1.25
 OPERATING RATING FACTOR: RF = 1.62
 WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 350 KIPS
 DESIGN ACCOUNTS FOR FUTURE WEARING SURFACE = 20 PSF

ULTIMATE DESIGN STRESSES:
 CONCRETE MASONRY SUPERSTRUCTURE $f_c' = 4000$ PSI
 ALL OTHER $f_c' = 3500$ PSI
 STEEL REINFORCEMENT HIGH STRENGTH BAR, GRADE 60 $f_y = 60$ KSI

FOUNDATION DATA:
 ABUTMENTS TO BE SUPPORTED ON PILING STEEL HP 12-INCH X 53 LB DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 110 TONS/PILE* AT ABUTMENTS AS DETERMINED BY THE MODIFIED GATES DYNAMIC EQUATION.

* THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

EST. PILE LENGTHS: 45 FT AT S. ABUT.
 45 FT AT N. ABUT.

TRAFFIC DATA CTH C (GENESSEE STREET):

AADT (2016) = 8800
 AADT (2036) = 11,800
 DESIGN SPEED = 30 MPH

HYDRAULIC DATA:

100 YEAR FLOW	648 CFS
100 YEAR VELOCITY	5.2 FT/SEC
0100 HIGH WATER EL.	886.76**
2 YEAR FLOW	240 CFS
02 HIGH WATER EL.	885.02**
0100 WATERWAY AREA	107 SF
DRAINAGE AREA	37 SQ MI
SCOUR CRITICAL CODE	5
REGULATORY FLOOD STAGE	887.6

** AT UPSTREAM BRIDGE FACE

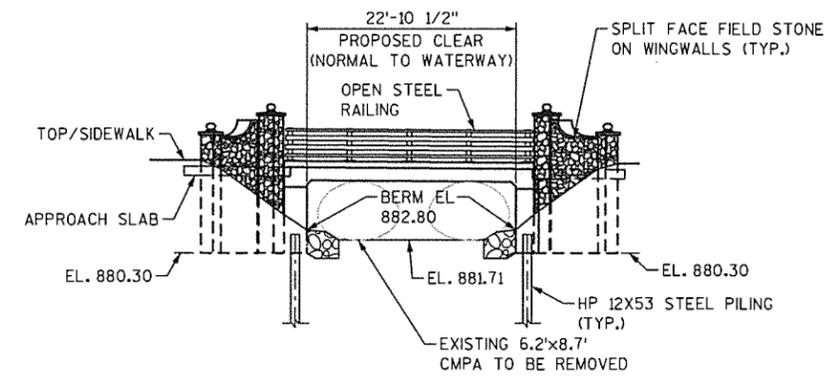
LIST OF DRAWINGS:

1. GENERAL PLAN AND ELEVATION
2. SUBSURFACE EXPLORATION
3. MISC. DETAILS AND GENERAL NOTES
4. SOUTH ABUTMENT
5. SOUTH ABUTMENT DETAILS
6. NORTH ABUTMENT
7. NORTH ABUTMENT DETAILS
8. SUPERSTRUCTURE PLAN
9. SUPERSTRUCTURE DETAILS
10. TUBULAR STEEL RAILING TYPE NY4
11. MASONRY DETAILS

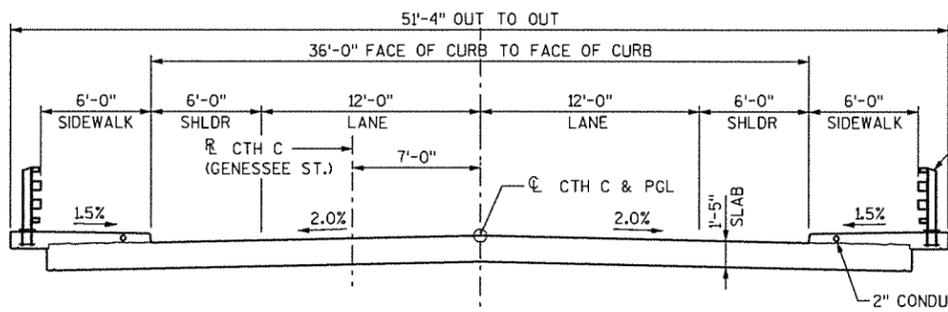
CONSULTANT CONTACT:

WILLIAM J. ZIPPEL, PE, SE
 ALFRED BENESCH AND CO.
 1300 WEST CANAL STREET, SUITE 150
 MILWAUKEE, WI 53233
 PHONE: 414-308-1321

900
 890
 880



ELEVATION



TYPICAL SECTION (LOOKING NORTH)

8

NO.	DATE	REVISION	BY

benesch Alfred Benesch & Company
 1300 West Canal Street, Suite 150
 Milwaukee, Wisconsin 53233
 414-308-1310 Job No. 20200.00

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ DATE _____
 CHIEF STRUCTURES DESIGN ENGINEER

STRUCTURE B-67-358

COUNTY	WAUKESHA	TOWN/CITY/VILLAGE	DELAFIELD
--------	----------	-------------------	-----------

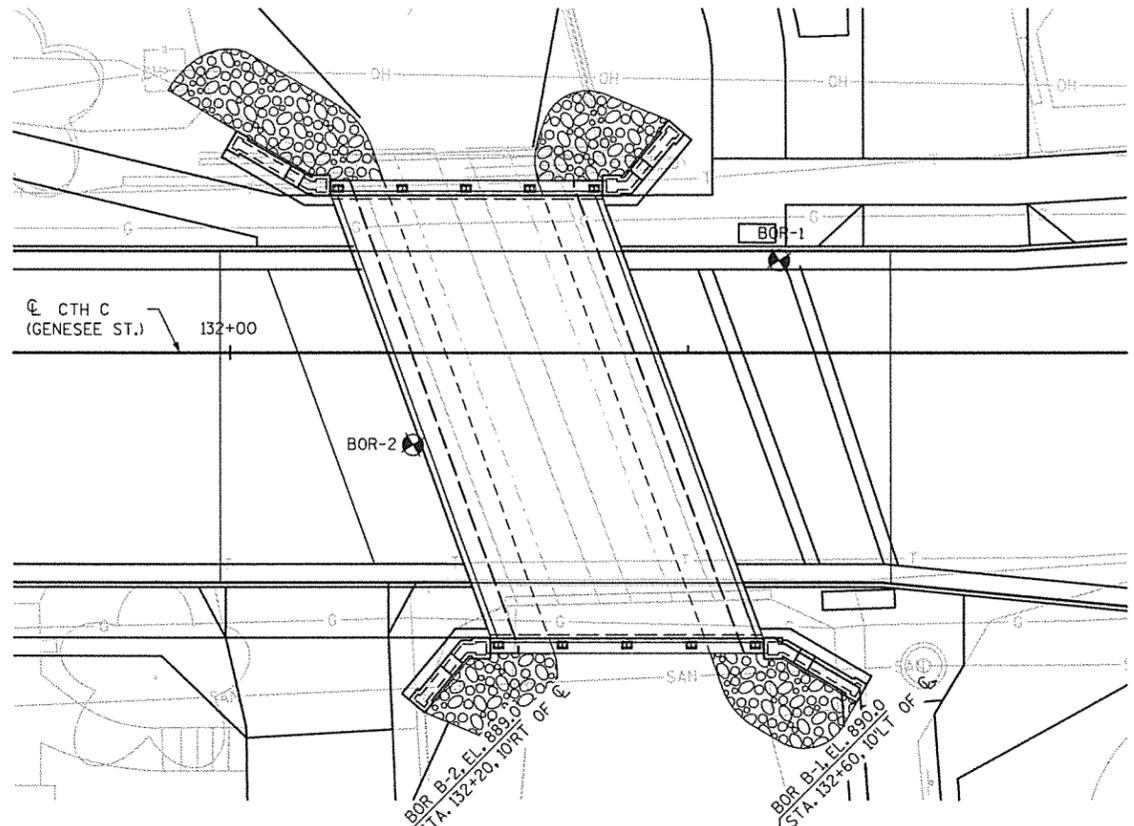
DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS
 DESIGNED BY _____ DESIGN CK'D. _____ DRAWN BY WMN PLANS CK'D. WJZ

GENERAL PLAN AND ELEVATION SHEET 1 OF 11

FILE = 081010_GP&E.DGN
 SCALE = 1/20

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
1	10/27/14	179889.2245	637124.1602
2	10/28/14	179848.6471	637142.9614

BORINGS COMPLETED BY: PSI
 REPORT COMPLETED BY: WISDOT
 ALL COORDINATES REFERENCED TO WCCS
 NAD 83(91) WAUKESHA COUNTY



STATE PROJECT NUMBER
14-3775(11)

ABBREVIATIONS
 F— FINE M— MEDIUM C— COARSE
 WS— WEATHERED SO— SOUND

MATERIAL SYMBOLS

	ASPHALT		SILT		SANDSTONE
	SAND		PEAT		LIMESTONE
	GRAVEL		CLAY		FILL

LEGEND OF PROBING

PROBING NO.
 STA.
 ELEVATION
 95/6=95 BLOWS FOR 6" PENETRATION PROBING TAKEN WITH A 350# WT. FALLING 18" ON A 2" O.D. POINT.
 7 AVERAGE BLOWS PER FOOT
 REFUSAL 95/6

LEGEND OF BORING

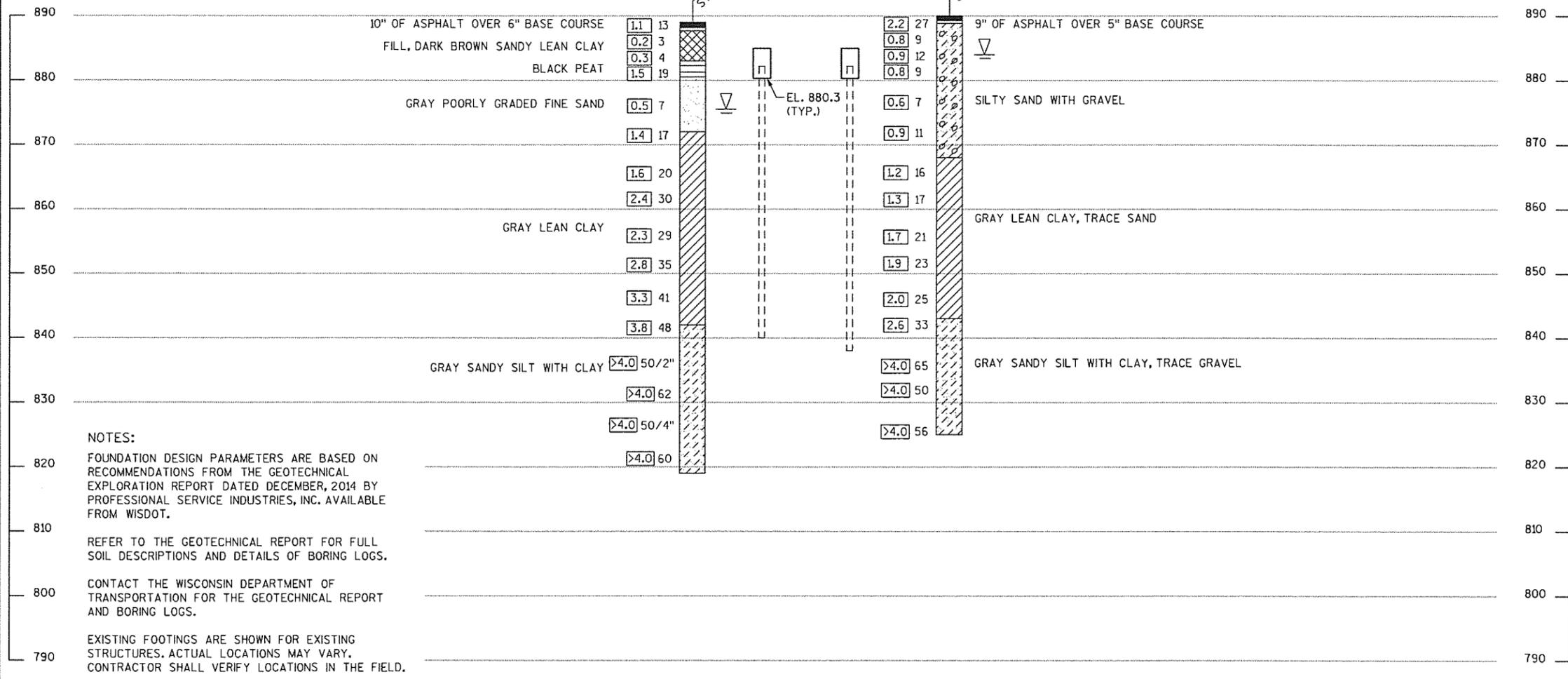
UNCONFINED STRENGTH → 7.7
 BLOWS PER FT. USING 140# WT. FALLING 30"
 GROUND WATER ELEVATION AT TIME OF DRILLING

SANDY GRAVEL
 F. BOULDERS OR COBBLES
 SAND
 SILTY CLAY
 SO
 LIMESTONE

UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CAGED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.



NOTES:

FOUNDATION DESIGN PARAMETERS ARE BASED ON RECOMMENDATIONS FROM THE GEOTECHNICAL EXPLORATION REPORT DATED DECEMBER, 2014 BY PROFESSIONAL SERVICE INDUSTRIES, INC. AVAILABLE FROM WISDOT.

REFER TO THE GEOTECHNICAL REPORT FOR FULL SOIL DESCRIPTIONS AND DETAILS OF BORING LOGS.

CONTACT THE WISCONSIN DEPARTMENT OF TRANSPORTATION FOR THE GEOTECHNICAL REPORT AND BORING LOGS.

EXISTING FOOTINGS ARE SHOWN FOR EXISTING STRUCTURES. ACTUAL LOCATIONS MAY VARY. CONTRACTOR SHALL VERIFY LOCATIONS IN THE FIELD.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION
 STRUCTURES DESIGN SECTION

STRUCTURE B-67-358

DRAWN BY: MHH PLANS CKD.: SJD

SUBSURFACE EXPLORATION SHEET 2 OF 11

8

8

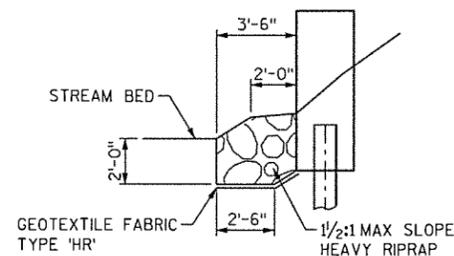
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GENERAL NOTES:

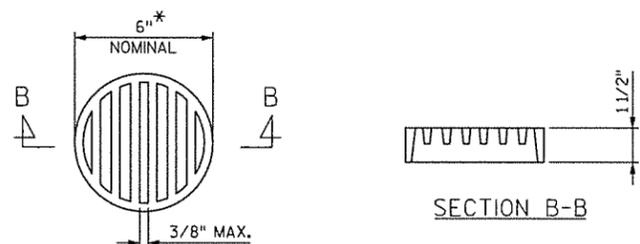
1. DRAWINGS SHALL NOT BE SCALED.
2. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
3. SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.
4. THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.
5. THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP AND GEOTEXTILE FABRIC TYPE 'HR' TO THE EXTENT SHOWN ON SHEET 1 AND IN THE ABUTMENT DETAILS.
6. THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES FOR THE ABUTMENTS SHALL BE THE BOTTOM OF SLOPE PROTECTION.
7. AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE.
8. PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF DECK AND THE FRONT FACE AND TOP OF THE SIDEWALKS AND PARAPETS.

DEMOLITION NOTES:

CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO RETAIN THE FILL AROUND THE EXISTING CULVERT DURING STAGE CONSTRUCTION.



RIPRAP TOE DETAIL

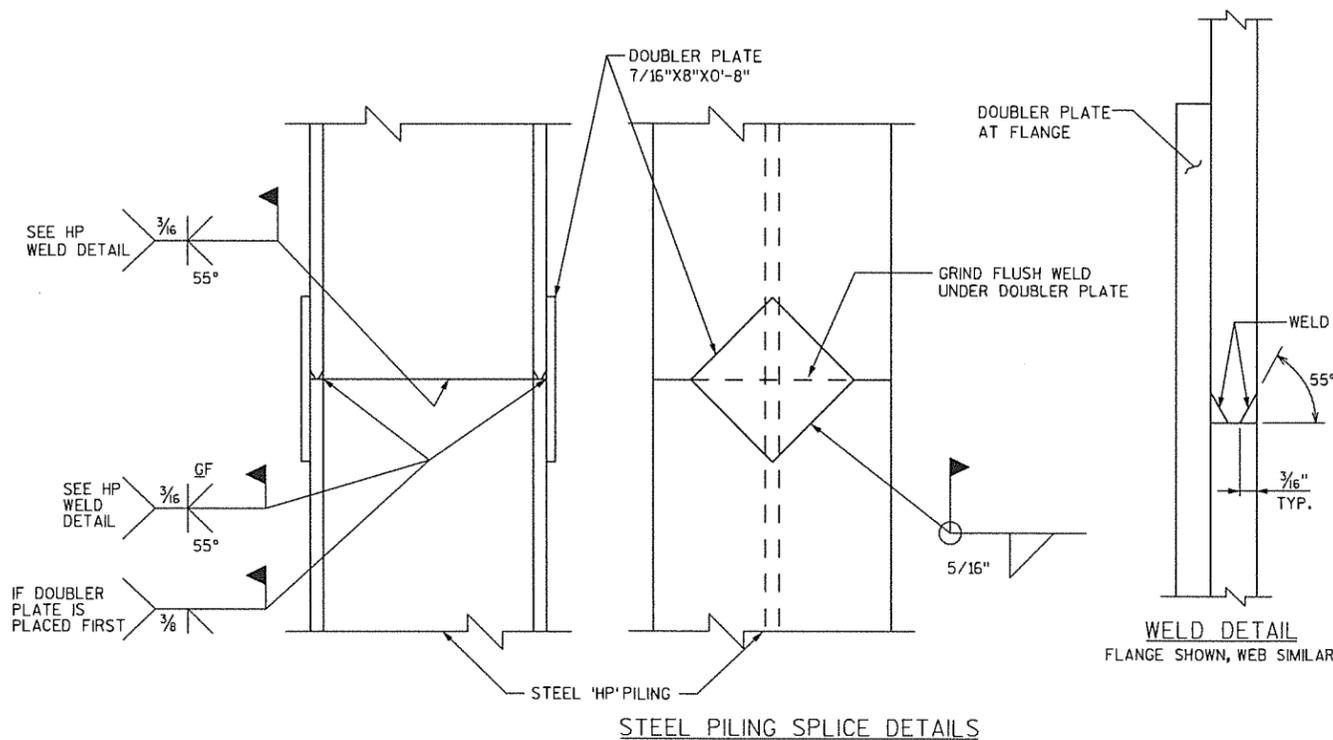


* NOTE: DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SHIELD SO SLOTS ARE VERTICAL.

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THE SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

THE RODENT SHIELD, PIPE COUPLING, AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE-UNDERDRAIN WRAPPED 6-INCH."

RODENT SHIELD



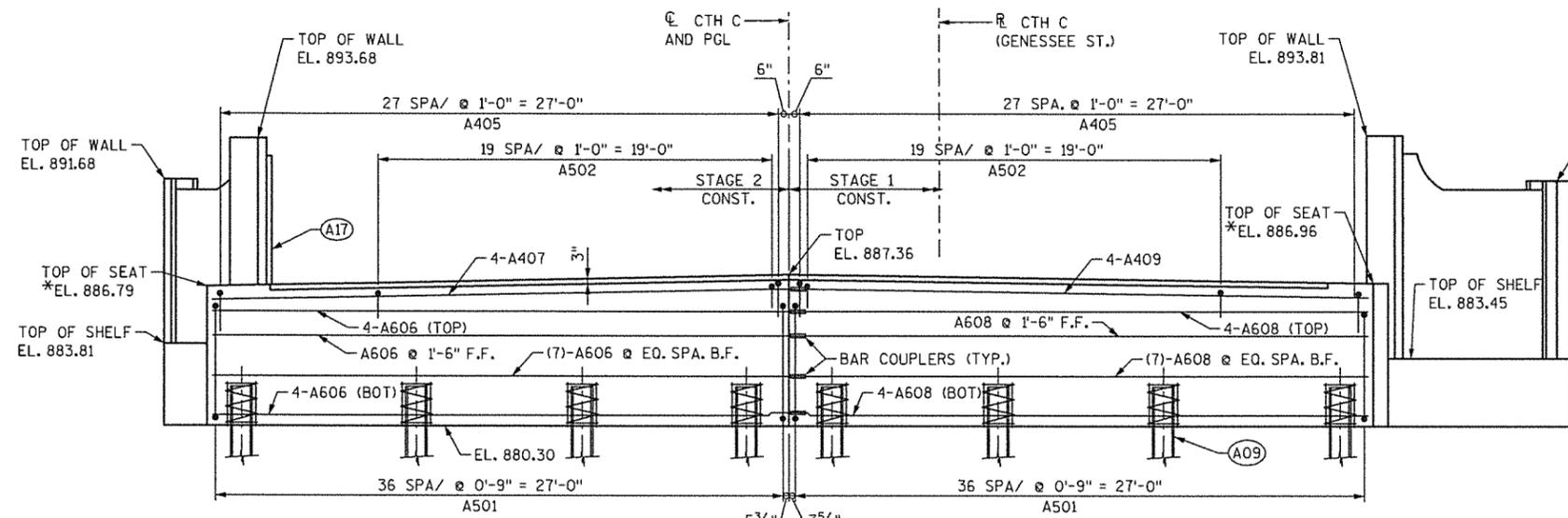
STEEL PILING SPLICE DETAILS

TOTAL ESTIMATE OF QUANTITIES

BID NO.	BID ITEMS	UNIT	S ABUT	N ABUT	SUPER	TOTAL
203.0200	REMOVING OLD STRUCTURE (STATION 132+26)	LS	----	----	1	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES (B-67-358)	LS	0.5	0.5	----	1
210.0100	BACKFILL STRUCTURE	CY	142	142	----	284
502.0100	CONCRETE MASONRY, BRIDGES	CY	54	54	93	201
502.3200	PROTECTIVE SURFACE TREATMENT	SY	----	----	173	173
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	----	----	----	0
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	6128	5417	19925	31470
505.0904	BAR COUPLERS NO. 4	EACH	6	6	----	12
505.0905	BAR COUPLERS NO. 5	EACH	----	----	83	83
505.0906	BAR COUPLERS NO. 6	EACH	18	18	----	36
511.1200	TEMPORARY SHORING B-67-358	SF	120	116	----	236
513.7084	RAILING STEEL TYPE NY4 B-67-358	LF	----	----	59.4	59.4
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	21	21	----	42
550.1120	PILING STEEL HP 12-INCH X 53 LB	LF	320	320	----	640
606.0300	RIPRAP HEAVY	CY	36	32	----	68
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	119	119	----	238
645.0120	GEOTEXTILE FABRIC TYPE HR	SY	54	47	----	101
652.0125	CONDUIT RIGID METALLIC 2-INCH	LF	----	----	16	16
652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	----	----	50	50
SPV.0105.	01. STONE MASONRY FACING	LS	0.5	0.5	----	1
NON-BID ITEMS						
	NAME PLATE					
	JOINT FILLER					
	NON-BITUMINOUS JOINT SEALER					

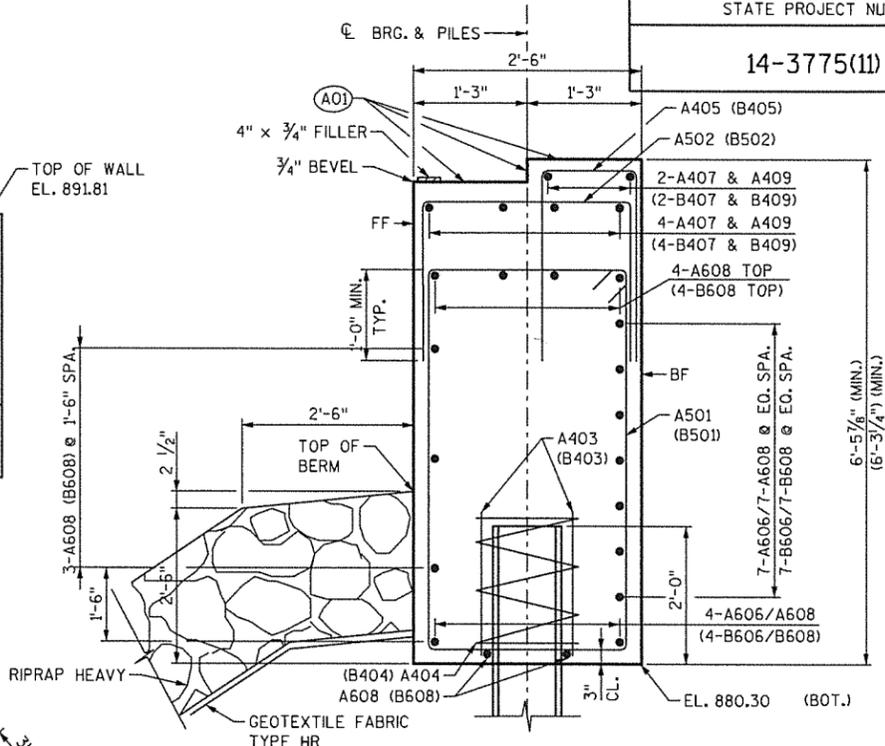
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-67-358			
DRAWN BY MHH		PLANS CK'D. SJD	
MISC. DETAILS & GENERAL NOTES			SHEET 3 OF 11

FILE= 081030_QUAN.DGN
SCALE = 1/8"=1'-0"



*ELEVATIONS ARE GIVEN ALONG THE C. OF BRG. STONE VENEER AND CAPSTONES NOT SHOWN ON ELEVATION VIEW.

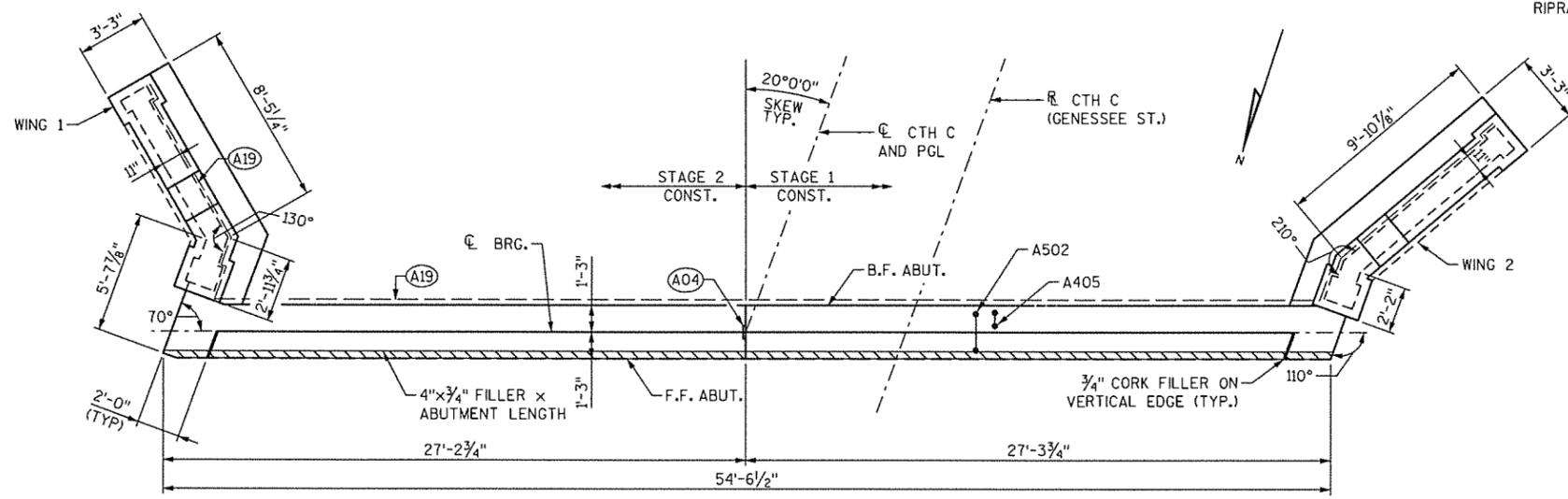
ELEVATION
(LOOKING DOWNSTATION)



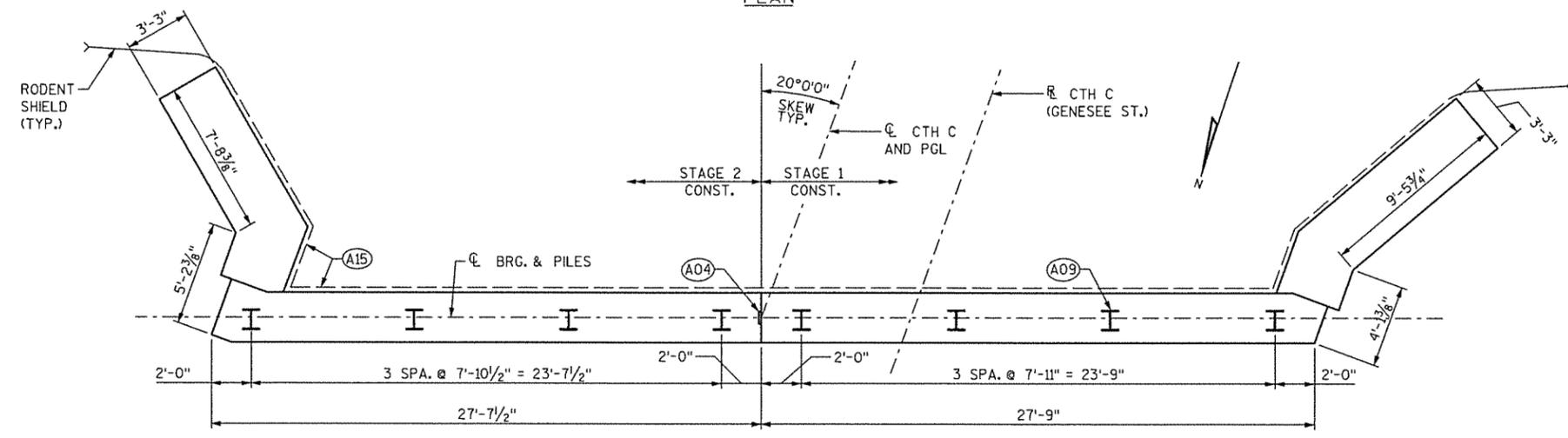
TYP. SECTION THROUGH ABUTMENT BODY

NOTE: SOUTH ABUTMENT SHOWN- NORTH ABUTMENT SIMILAR. NORTH ABUTMENT INFORMATION IS IN PARENTHESES (), BAR NUMBERS FOR NORTH ABUTMENT ARE THE SAME AS SOUTH ABUTMENT, BUT "A" CALLOUT IS REPLACED WITH "B"

- (A01) STEEL TROWEL TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF POLYTHELENE SHEET OVER ENTIRE ABUTMENT BEFORE PLACING SUPERSTRUCTURE. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03"
- (A04) VERT. CONSTRUCTION JOINT: KEYWAY FORMED BY A BEVELED 2x8, 3/4" "V" GROOVE @ THE FRONT FACE AND 18" R.M.W. AT BACKFACE. FOR OPTIONAL DETAILS SEE "ALTERNATE CONSTRUCTION JOINT" SHEET.
- (A09) SUPPORT ABUTMENT ON HP12x53 STEEL PILING, ESTIMATED 45 FT LONG WITH A REQUIRED DRIVING RESISTANCE OF 110 TONS PER PILE.
- (A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SCREEN REQUIRED. (SEE "MISCELLANEOUS DETAILS AND GENERAL NOTES" SHEET FOR DETAILS.
- (A17) 1/2" FILLER (INCLUDED IN WING LENGTH); SEAL ALL EXPOSED HORIZ. AND VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.
- (A19) 18" RMW (RUBBERIZED) MEMBRANE WATERPROOFING. SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.



PLAN



PILE PLAN

NOTES:
EXCAVATE TO BOTTOM OF ABUTMENTS BEFORE DRIVING PILES

DO NOT PLACE FILL ABOVE 3'-0" FROM BOTTOM OF ABUTMENT, UNTIL SUPERSTRUCTURE IS IN PLACE

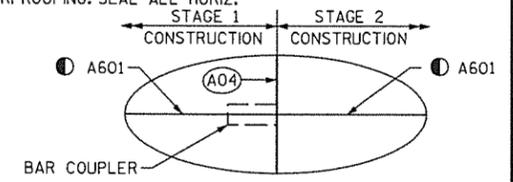
SEAL ALL EXPOSED HORIZ. AND VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (1" DEEP AND HOLD 1/2" BELOW SURFACE OF CONCRETE)

▲ 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. AND VERT. JOINTS ON BACK FACE OF ABUTMENTS AND WINGS.

FF DENOTES FRONT FACE

BF DENOTES BACK FACE

EF DENOTES EACH FACE



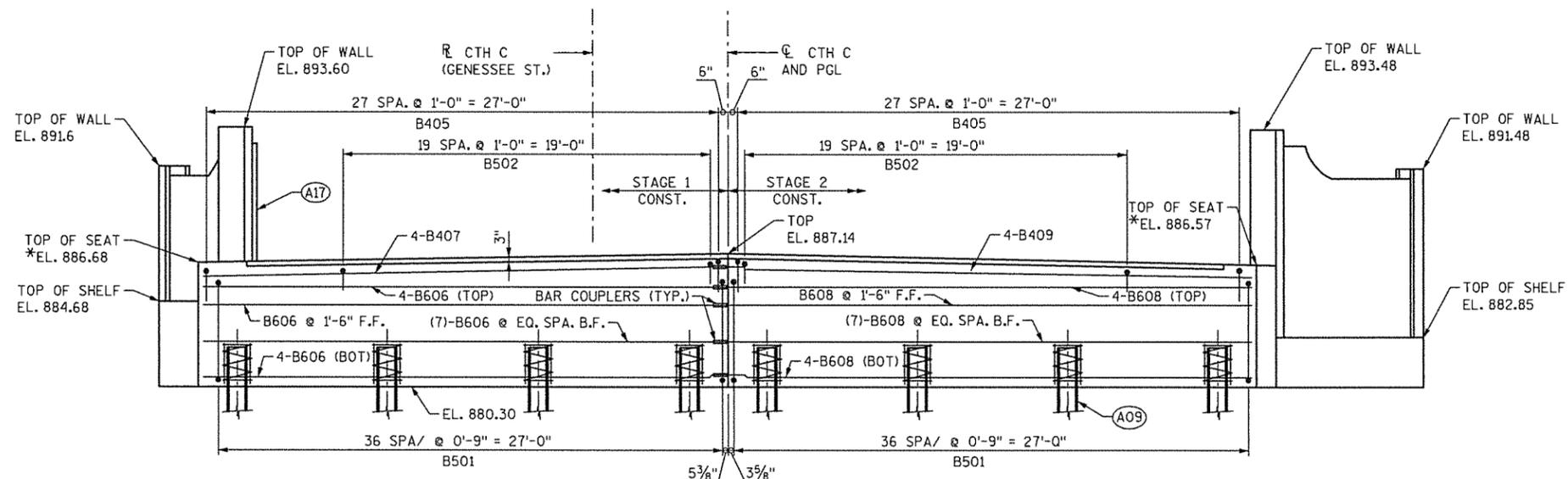
BAR COUPLER DETAIL

BAR LENGTH HAS BEEN COMPUTED TO C. OF VERT. CONST. JOINT AND SHALL BE MODIFIED TO BAR COUPLER MANUFACTURER RECOMMENDATIONS.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-67-358			
DRAWN BY		MJH	PLANS CK'D. SJD
SOUTH ABUTMENT			SHEET 4 OF 11

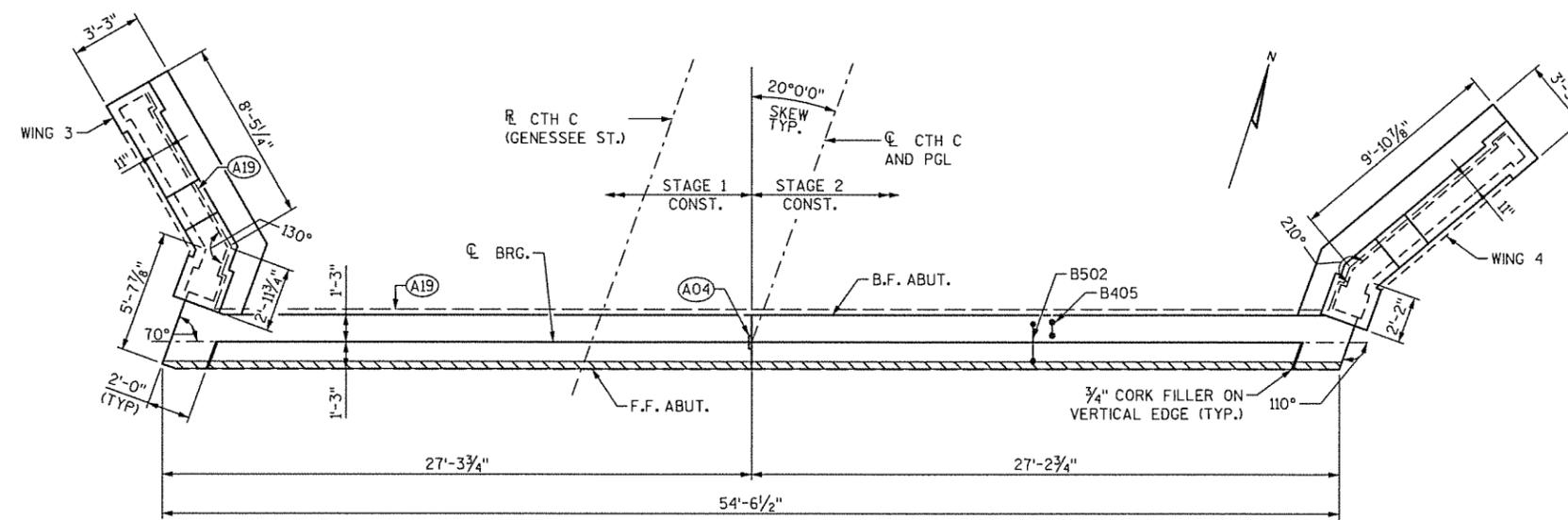
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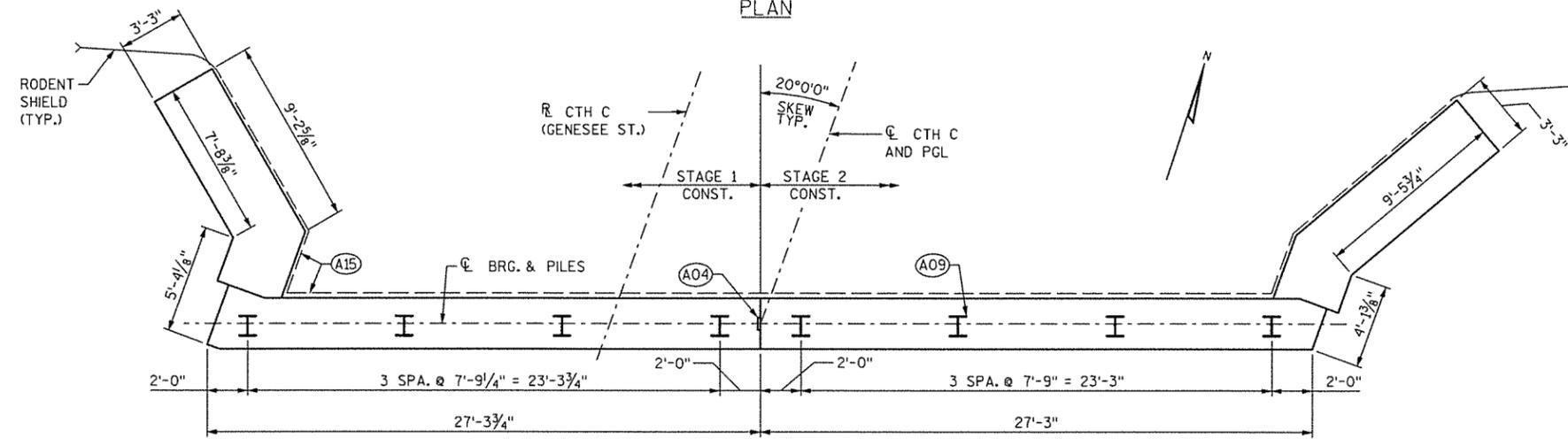


*ELEVATIONS ARE GIVEN ALONG THE C. OF BRG.
STONE VENEER AND CAPSTONES NOT SHOWN ON ELEVATION VIEW.

ELEVATION
(LOOKING UPSTATION)



PLAN

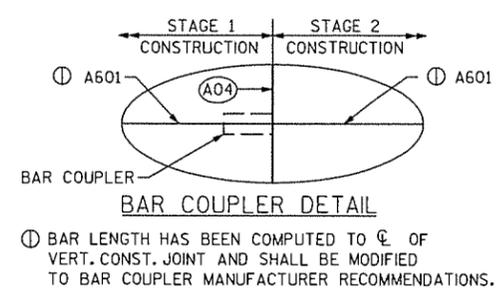


PILE PLAN

- (A04) VERT. CONSTRUCTION JOINT: KEYWAY FORMED BY A BEVELED 2x8. 3/4" "V" GROOVE @ THE FRONT FACE AND 18" R.M.W. AT BACKFACE. FOR OPTIONAL DETAILS SEE "ALTERNATE CONSTRUCTION JOINT" SHEET.
- (A09) SUPPORT ABUTMENT ON HP12x53 STEEL PILING, ESTIMATED 45 FT LONG WITH A REQUIRED DRIVING RESISTANCE OF 110 TONS PER PILE.
- (A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SCREEN REQUIRED. (SEE "MISCELLANEOUS DETAILS AND GENERAL NOTES" SHEET FOR DETAILS.
- (A17) 1/2" FILLER (INCLUDED IN WING LENGTH); SEAL ALL EXPOSED HORIZ. AND VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.
- (A19) 18" RMW (RUBBERIZED) MEMBRANE WATERPROOFING. SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

NOTES:
EXCAVATE TO BOTTOM OF ABUTMENTS BEFORE DRIVING PILES
DO NOT PLACE FILL ABOVE 3'-0" FROM BOTTOM OF ABUTMENT, UNTIL SUPERSTRUCTURE IS IN PLACE
SEAL ALL EXPOSED HORIZ. AND VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (1" DEEP AND HOLD 1/2" BELOW SURFACE OF CONCRETE)

▲ 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. AND VERT. JOINTS ON BACK FACE OF ABUTMENTS AND WINGS.
FF DENOTES FRONT FACE
BF DENOTES BACK FACE
EF DENOTES EACH FACE

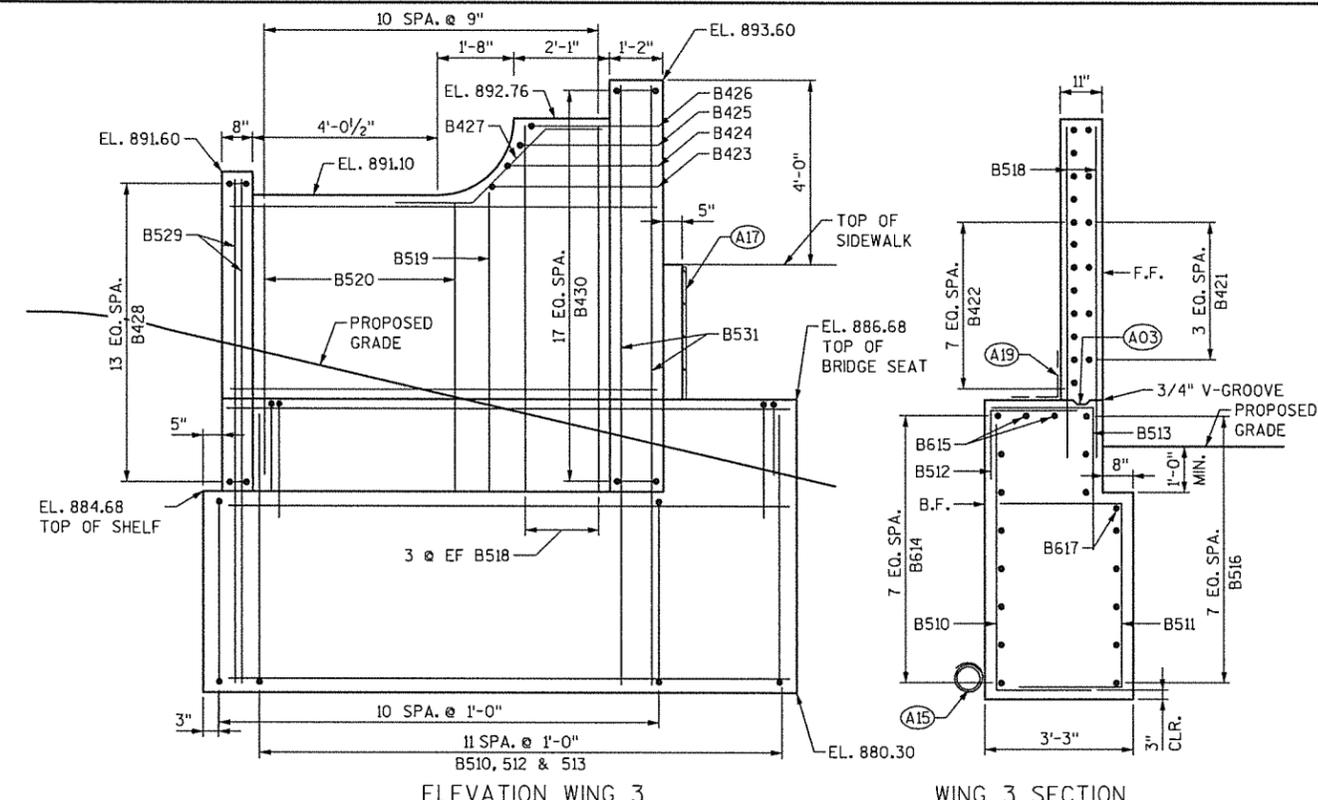


① BAR LENGTH HAS BEEN COMPUTED TO C. OF VERT. CONST. JOINT AND SHALL BE MODIFIED TO BAR COUPLER MANUFACTURER RECOMMENDATIONS.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-67-358			
DRAWN BY MHH		PLANS CK'D. SJD	
NORTH ABUTMENT			SHEET 6 OF 11

8

8

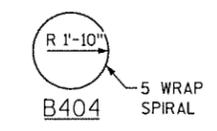


ELEVATION WING 3

WING 3 SECTION

- (A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2x6. (18" R.M.W. @ B.F. & 3/4" "V" GROOVE @ F.F. IF JOINT IS USED).
- (A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SCREEN REQUIRED. (SEE "MISCELLANEOUS DETAILS AND GENERAL NOTES" SHEET FOR DETAILS.)
- (A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. AND VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.
- (A19) 18" RMW (RUBBERIZED) MEMBRANE WATERPROOFING. SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

NOTES:
EXCAVATE TO BOTTOM OF ABUTMENTS BEFORE DRIVING PILES
DO NOT PLACE FILL ABOVE 3'-0" FROM BOTTOM OF ABUTMENT, UNTIL SUPERSTRUCTURE IS IN PLACE
SEAL ALL EXPOSED HORIZ. AND VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (1" DEEP AND HOLD 1/2" BELOW SURFACE OF CONCRETE)
18" RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. AND VERT. JOINTS ON BACK FACE OF ABUTMENTS AND WINGS.

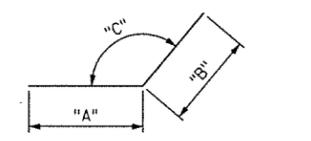


- KEYED CONST. JOINT FORMED BY A BEVELED 2"x6"
- OPTIONAL CONSTRUCTION JOINT. POUR CONCRETE ABOVE THIS JOINT AFTER SLAB IS IN PLACE. IF JOINT IS USED, UTILIZE RUBBERIZED MEMBRANE WATERPROOFING ON BACK FACE.
- FF DENOTES FRONT FACE
- BF DENOTES BACK FACE
- EF DENOTES EACH FACE

BAR NO.	DIM "A"	DIM "B"	DIM "C"
B501	5'-9 7/8"	2'-2"	5 1/2"
B428, B450	1'-1"	4"	3"
B430, B452	1'-1"	10"	3"

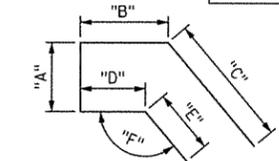
BAR NO.	DIM "A"	DIM "B"
B510	5'-11 1/2"	2'-11"
B512	1'-6"	2'-3"
B513	3'-1 1/8"	2'-3"
B532	5'-10 3/4"	2'-11"
B534	1'-6"	2'-3"
B535	1'-9 5/8"	2'-3"

BAR NO.	DIM "A"	DIM "B"
B502	1'-5 1/2"	2'-2"
B405	1'-8 1/2"	11"
B511	2'-11"	3'-11 1/2"
B533	2'-11"	2'-1 1/2"

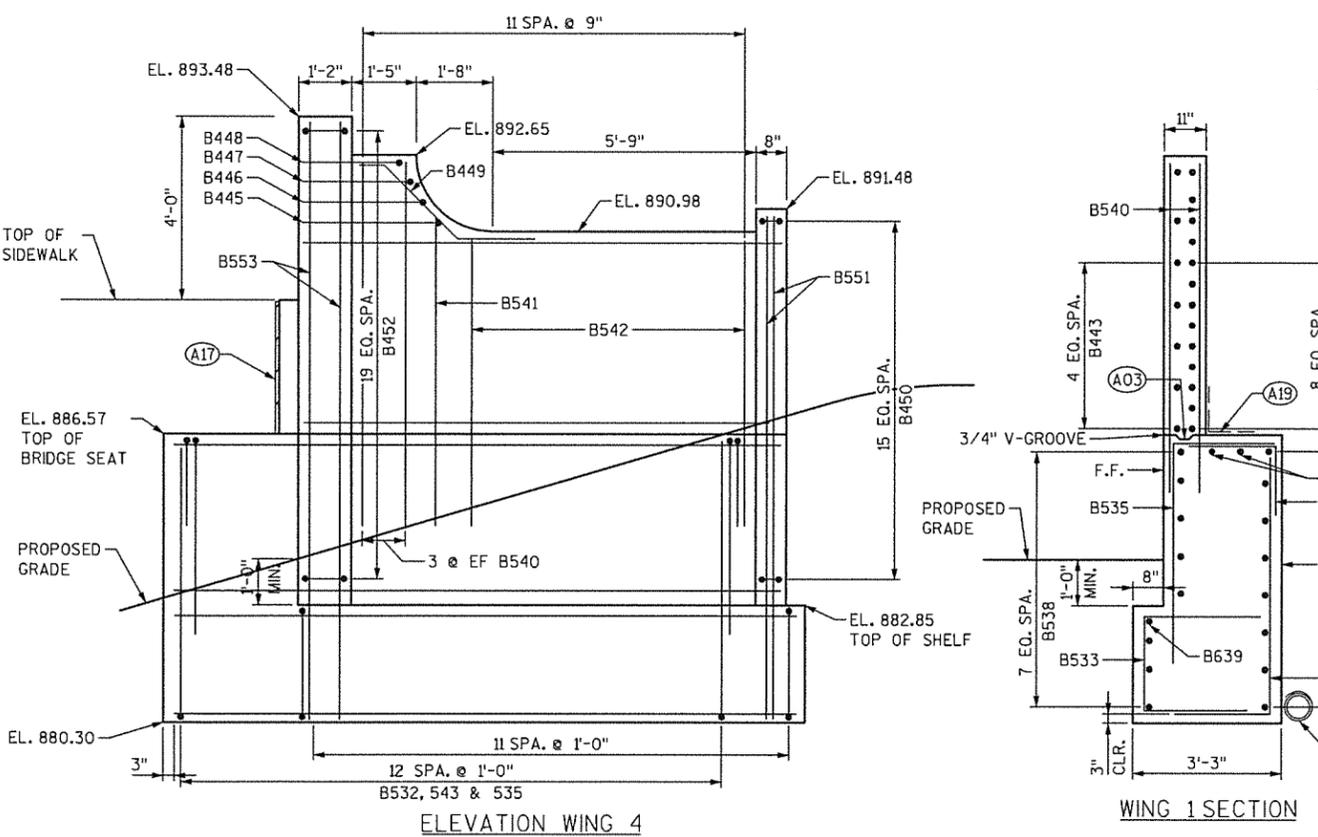


BAR NO.	DIM "A"	DIM "B"	DIM "C"
B614	3'-3 3/8"	9'-0 1/2"	130°
B615	3'-0"	8'-6"	130°
B516	2'-2"	7'-8"	130°
B617	2'-2"	7'-8"	130°
B421	1'-11 1/2"	7'-5"	130°
B422	2'-4 3/8"	7'-10 1/4"	130°
B636	3'-1 1/2"	10'-2 1/8"	150°
B637	2'-4 3/8"	9'-10 3/8"	150°
B538	1'-10"	9'-5"	150°
B639	1'-10"	9'-5"	150°
B443	1'-6 7/8"	9'-0 7/8"	150°
B444	1'-9 7/8"	9'-4"	150°

BAR NO.	DIM "A"
B427	10"
B449	4"



BAR NO.	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "F"
B423	7"	2'-1 1/4"	2'-4 5/8"	1'-8"	1'-11 1/2"	130°
B424	7"	1'-8 1/2"	2'-4 3/8"	1'-3 1/2"	1'-11 1/2"	130°
B425	7"	1'-6"	2'-4 3/8"	1'-0 3/4"	1'-11 1/2"	130°
B426	7"	1'-4 1/2"	2'-4 3/8"	11 1/2"	1'-11 1/2"	130°
B445	7"	1'-8 1/8"	1'-9 1/8"	1'-5 1/4"	1'-6 1/8"	150°
B446	7"	1'-3 1/2"	1'-9 1/8"	1'-0 5/8"	1'-6 1/8"	150°
B447	7"	1'-0 3/4"	1'-9 1/8"	9 7/8"	1'-6 1/8"	150°
B448	7"	1 1/2"	1'-9 1/8"	8 5/8"	1'-6 1/8"	150°



ELEVATION WING 4

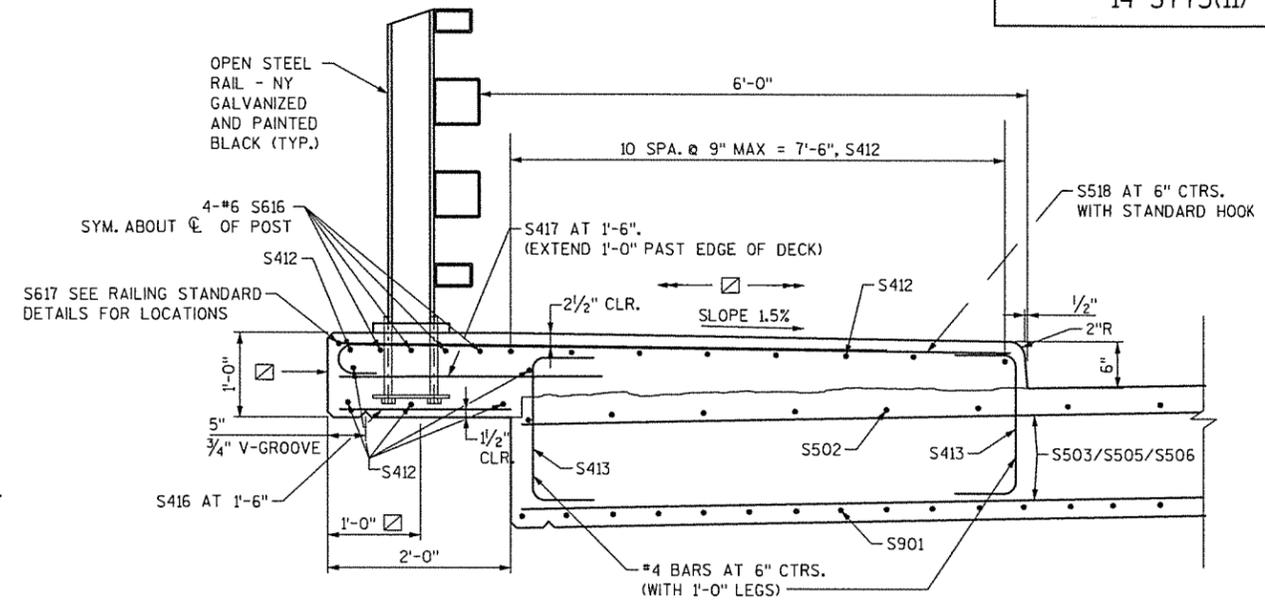
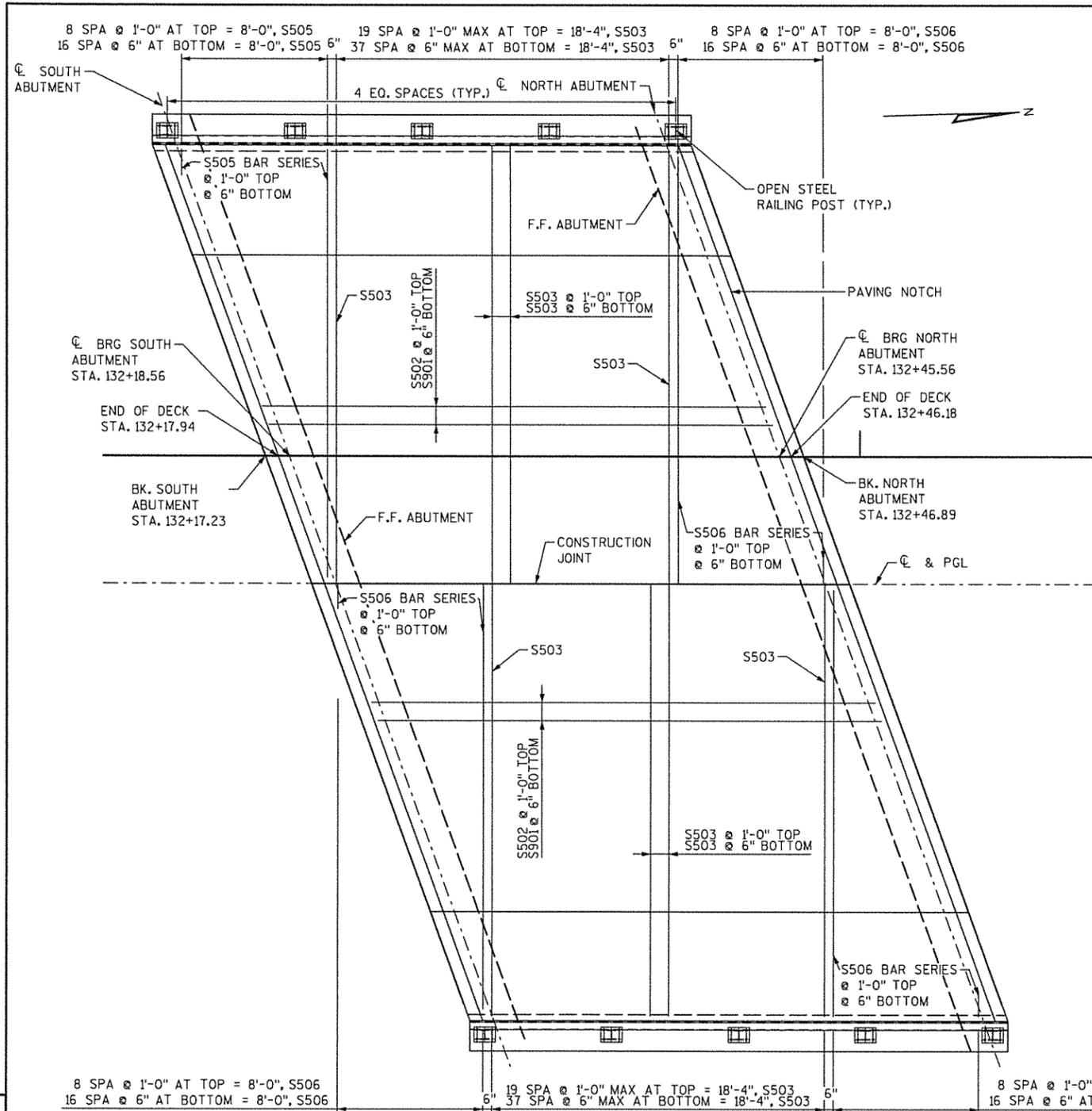
WING 1 SECTION

- (A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2x6. (18" R.M.W. @ B.F. & 3/4" "V" GROOVE @ F.F. IF JOINT IS USED).
- (A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. AND VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.
- (A19) 18" RMW (RUBBERIZED) MEMBRANE WATERPROOFING. SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

BILL OF BARS NORTH ABUTMENT

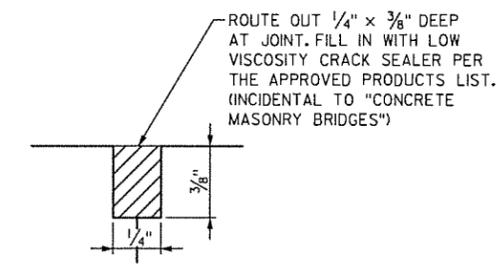
BAR NO.	COATED BAR	NO. REQ'D	LENGTH	BENT BAR	BUNDLED	CUT BARS	# COATED / # UNCOATED		LOCATION
B501		74	16'-5"	X					BODY - STIRRUPS
B502		56	5'-1"	X					BODY - 'U' STIRRUPS
B403		16	2'-0"						PILES - 2 PER BODY PILE
B404		8	28'-0"	X					PILES - 1 PER BODY PILE
B405		56	4'-4"	X					BODY - 'U' STIRRUPS
B606		18	27'-8"						BODY - HORIZONTAL - TOP, BTM., FF & BF
B407		6	27'-8"						BODY - HORIZONTAL - TOP, EF
B608		18	28'-5"						BODY - HORIZONTAL - TOP, BTM, FF & BF
B409		6	28'-5"						BODY - HORIZONTAL - TOP, EF
B510		14	8'-11"	X					WING 3 - VERTICAL 'L' BF
B511		11	9'-10"	X					WING 3 - VERTICAL 'U' FF
B512		14	3'-9"	X					WING 3 - HORIZONTAL 'L' TOP
B513		14	5'-4"	X					WING 3 - HORIZONTAL 'L' TOP
B614		8	13'-4"	X					WING 3 - HORIZONTAL BF
B615		2	11'-6"	X					WING 3 - HORIZONTAL TOP
B516		8	9'-10"	X					WING 3 - HORIZONTAL FF
B617		1	9'-10"	X					WING 3 - HORIZONTAL FF
B518		6	7'-11"						WING 3 STEM - VERTICAL EF
B519		2	5'-11"						WING 3 STEM - VERTICAL EF
B520		14	5'-3"						WING 3 STEM - VERTICAL EF
B421		5	9'-5"	X					WING 3 STEM - HORIZONTAL FF
B422		9	10'-3"	X					WING 3 STEM - HORIZONTAL BF
B423		1	8'-9"	X					WING 3 STEM - HORIZONTAL 'U' EF
B424		1	7'-11"	X					WING 3 STEM - HORIZONTAL 'U' EF
B425		1	7'-6"	X					WING 3 STEM - HORIZONTAL 'U' EF
B426		1	7'-3"	X					WING 3 STEM - HORIZONTAL 'U' EF
B427		2	5'-4"	X					WING 3 STEM - HORIZONTAL EF
B428		14	3'-4"	X					WING 3 TOP HORIZONTAL STIRRUP
B529		4	11'-2"						WING 3 TOP VERTICAL EF
B430		18	4'-4"	X					WING 3 TOP HORIZONTAL STIRRUP
B531		4	13'-2"						WING 3 TOP VERTICAL EF
B532		14	8'-9"	X					WING 4 BOTTOM HORIZONTAL 'L' BF
B533		14	8'-0"	X					WING 4 BOTTOM HORIZONTAL 'U' FF
B534		14	3'-9"	X					WING 4 BOTTOM HORIZONTAL 'L' BF
B535		14	7'-1"	X					WING 4 BOTTOM HORIZONTAL 'L' FF
B636		8	13'-4"	X					WING 4 BOTTOM HORIZONTAL BF
B637		2	12'-3"	X					WING 4 BOTTOM HORIZONTAL TOP
B538		8	11'-3"	X					WING 4 BOTTOM HORIZONTAL FF
B639		1	11'-3"	X					WING 4 BOTTOM HORIZONTAL FF
B540		6	7'-10"						WING 4 TOP VERTICAL EF
B541		2	6'-9"						WING 4 TOP VERTICAL EF
B542		18	6'-2"						WING 4 TOP VERTICAL EF
B443		5	10'-6"	X					WING 4 TOP HORIZONTAL FF
B444		9	11'-2"	X					WING 4 TOP HORIZONTAL BF
B445		1	7'-1"	X					WING 4 TOP HORIZONTAL 'U'
B446		1	6'-4"	X					WING 4 TOP HORIZONTAL 'U'
B447		1	5'-10"	X					WING 4 TOP HORIZONTAL 'U'
B448		1	5'-8"	X					WING 4 TOP HORIZONTAL 'U'
B449		2	4'-7"	X					WING 4 TOP HORIZONTAL EF
B450		16	3'-4"	X					WING 4 TOP HORIZONTAL STIRRUP
B551		4	11'-1"						WING 4 TOP VERTICAL EF
B452		20	4'-4"	X					WING 4 TOP HORIZONTAL STIRRUP
B553		4	13'-1"						WING 4 TOP VERTICAL EF

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-67-358			
DRAWN BY MHH		PLANS CKD. SJD	
NORTH ABUTMENT DETAILS			SHEET 7 OF 11



SECTION THROUGH SIDEWALK

- ▲ CONST. JOINT- STRIKE OFF AS SHOWN AND LEAVE ROUGH. FOR DECK POUR, MATCH BRIDGE X-SLOPE.
- +/- 0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- ☑ COAT WITH "PROTECTIVE SURFACE TREATMENT" AS PER THE STANDARD SPECIFICATIONS.



LONGITUDINAL CONSTRUCTION JOINT DETAIL

TOP OF SLAB ELEVATIONS

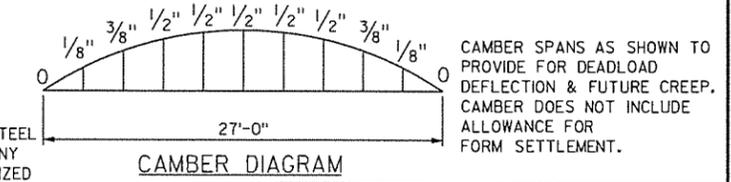
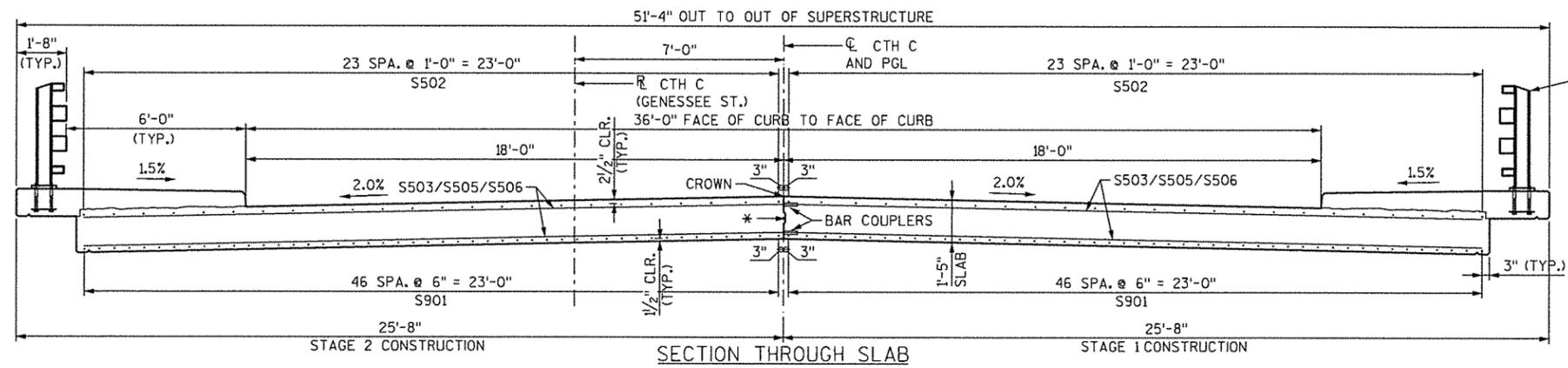
LOCATION	WEST EDGE OF DECK	WEST GUTTER	CROWN	EAST GUTTER	EAST EDGE OF DECK
END OF SLAB	889.163	889.252	889.784	889.118	888.985
CL BRG S ABUT	889.148	889.237	889.529	889.106	888.973
0.1	889.119	889.209	889.502	889.082	888.949
0.2	889.090	889.181	889.477	889.058	888.927
0.3	889.062	889.153	889.452	889.036	888.905
0.4	889.035	889.127	889.428	889.014	888.884
0.5	889.009	889.102	889.405	888.994	888.864
0.6	888.984	889.078	889.383	888.974	888.846
0.7	888.960	889.055	889.362	888.956	888.828
0.8	888.937	889.032	889.342	888.938	888.811
0.9	888.915	889.011	889.323	888.921	888.795
CL BRG N ABUT	888.894	888.991	889.305	888.905	888.780
END OF SLAB	888.884	889.981	889.186	888.898	888.773

8 SPA @ 1'-0" AT TOP = 8'-0", S506
16 SPA @ 6" AT BOTTOM = 8'-0", S506

19 SPA @ 1'-0" MAX AT TOP = 18'-4", S503
37 SPA @ 6" MAX AT BOTTOM = 18'-4", S503

8 SPA @ 1'-0" AT TOP = 8'-0", S505
16 SPA @ 6" AT BOTTOM = 8'-0", S505

PLAN



OPEN STEEL RAIL - NY GALVANIZED AND PAINTED BLACK (TYP.)

* LONGITUDINAL CONSTRUCTION JOINT WITH KEYWAY, SEE "LONGIT. CONSTRUCTION JOINT" DETAIL ON "SUPERSTRUCTURE DETAILS" SHEET.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-67-358			
DRAWN BY		MHH	PLANS CK'D. SJD
SUPERSTRUCTURE PLAN			SHEET 8 OF 11

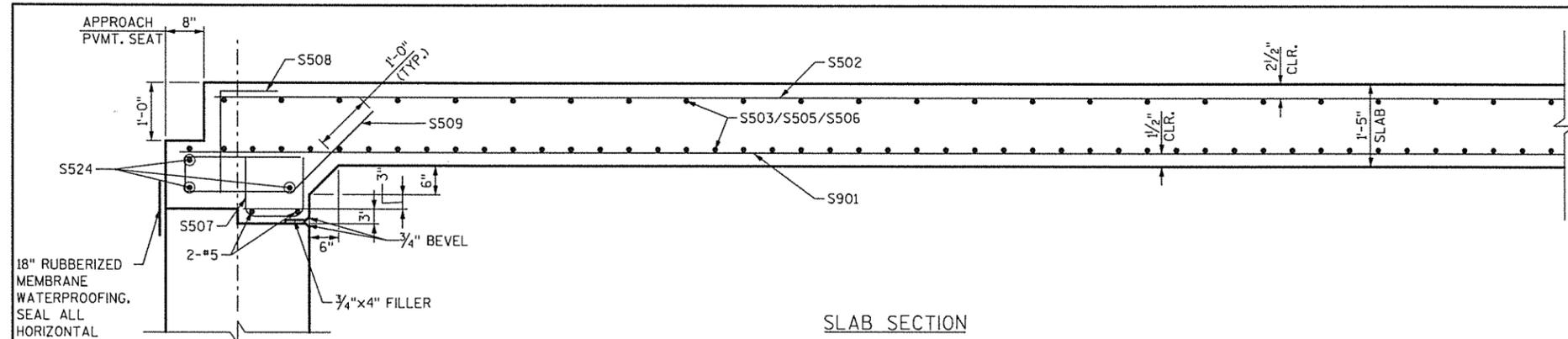
BILL OF BARS

BAR NO.	COATED BAR	NO. REQ'D	LENGTH	BENT BAR	BUNDLED	BAR SERIES	19925 # COATED
							0 # UNCOATED
							LOCATION
S901	X	94	29'-4"				SLAB LONGITUDINAL BOTTOM
S502	X	48	28'-4"				SLAB LONGITUDINAL TOP
S503	X	116	23'-5"				SLAB TRANSVERSE
S505	X	52	7'-11"		X		SLAB TRANSVERSE - CUT BARS
S506	X	52	8'-2"		X		SLAB TRANSVERSE - CUT BARS AT SPLICE
S507	X	96	2'-7"	X			SLAB AT ABUTMENT HAUNCH
S508	X	104	3'-8"	X			SLAB AT APPROACH NOTCH
S509	X	74	6'-7"	X			SLAB AT ABUTMENTS
S510	X	28	7'-7"	X			SLAB AT ABUTMENTS - OUTSIDE
S511	X	12	8'-8"	X			SLAB AT ABUTMENTS - UNDER SIDEWALK
S412	X	60	28'-4"				SIDEWALK LONGITUDINAL
S413	X	240	3'-4"	X			SIDEWALK DOWELS
S616	X	16	28'-4"				SIDEWALK LONGITUDINAL AT NY RAIL
S617	X	20	12'-0"	X			SIDEWALK TRANSVERSE AT NY RAIL
S416	X	42	1'-10"				SIDEWALK TRANSVERSE AT BOTTOM
S417	X	120	3'-0"				SIDEWALK TRANSVERSE AT MIDDLE
S518	X	120	7'-5"				SIDEWALK TRANSVERSE AT TOP

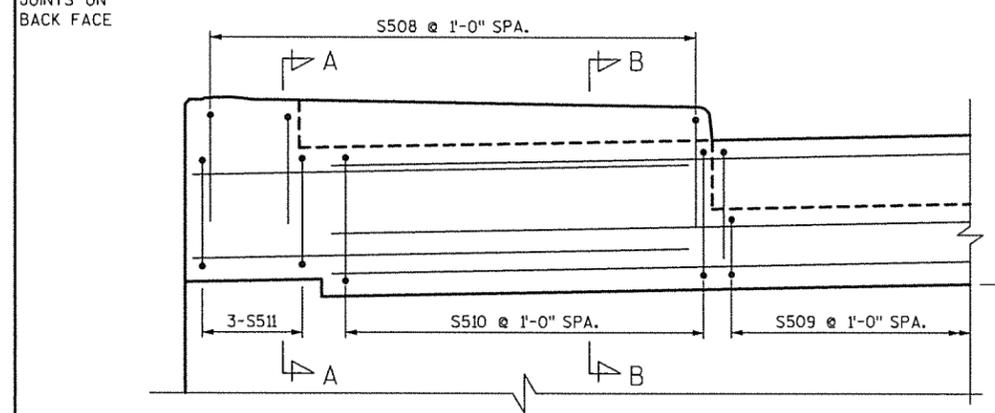
BAR SERIES TABLE

BAR NO.	NUMBER REQUIRED	LENGTH
S505	2 SERIES OF 9 @ TOP	1'-1" TO 23'-1"
	2 SERIES OF 17 @ BOTTOM	
S506	2 SERIES OF 9 @ TOP	1'-4" TO 23'-4"
	2 SERIES OF 17 @ BOTTOM	

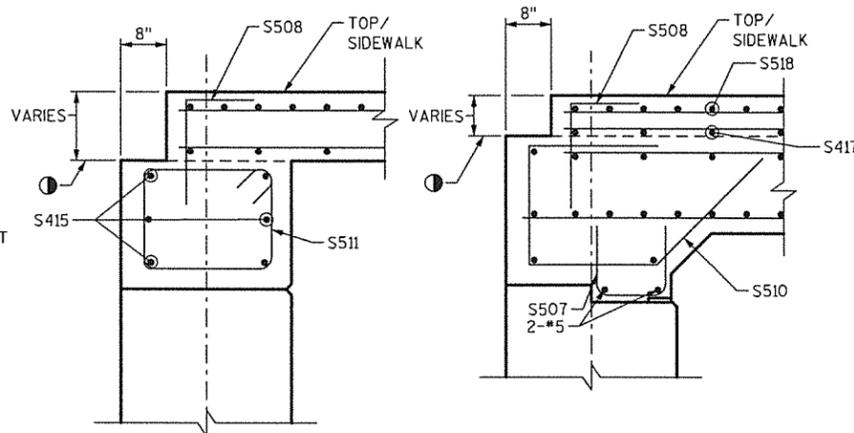
FF DENOTES FRONT FACE
BF DENOTES BACK FACE



SLAB SECTION



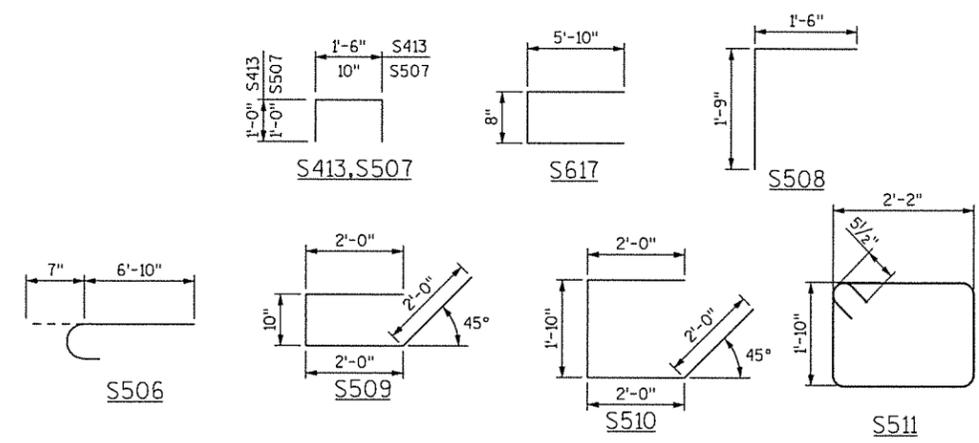
PARTIAL CROSS SECTION AT ABUTMENT



SECTION A-A

SECTION B-B

- BOTTOM OF SIDEWALK PAVING NOTCH IS THE TOP OF SLAB POUR EXTENDED
- ▲ LENGTH SHOWN FOR BAR SERIES IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS.



8

8

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-67-358			
DRAWN BY SCD		PLANS SJD	
SUPERSTRUCTURE DETAILS		SHEET 9 OF 11	

LEGEND

- ① W6 X 25 WITH 1/8" X 1 3/8" HORIZONTAL SLOTTED HOLES ON EACH SIDE OF POST FOR BOLT NO. 6 AT TOP TWO RAILS. USE 1" DIA. HOLES FOR BOLTS NO. 6 AT BOTTOM NO. 5A & FOR BOLT NO. 6A AT NO. 7. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POSTS NORMAL TO GRADE LINE.
- ② PLATE 1/4" X 10" X 1'-2" WITH 1/8" X 1 3/8" SLOTTED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN. SLOTS PARALLEL TO SHORT SIDE OF PLATE.
- ③ ASTM A449 - 1" DIA. ANCHOR BOLTS WITH HEAVY HEX NUT AND 2" O.D. HARDENED WASHER (ALL GALVANIZED). 4 REQUIRED PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING. USE 1 1/2" LONG BOLT FOR CONCRETE DECKS. ON CONCRETE SLAB SUPERSTRUCTURES, USE 1'-3" LONG BOLT FOR SLAB THICKNESS > 16" AND 1 1/2" LONG FOR THICKNESS < 16". USE 1'-9" LONG IN ABUTMENT WINGS. (AN EQUIVALENT THREADED ROD WITH HEAVY HEX NUTS AND HARDENED WASHERS MAY BE SUBSTITUTED FOR ANCHOR BOLTS IN WINGS IF REQUIRED FOR CONSTRUCTABILITY.)
- ④ 3/8" X 10" X 1'-2" ANCHOR PLATE (GALVANIZED) WITH 1/8" DIA. HOLES FOR ANCHOR BOLTS NO. 3.
- ⑤ TS 6 X 6 X 3/8" STRUCTURAL TUBING. USE 1" DIA. HOLES FOR BOLT NO. 6 (FRONT & BACK) & 3/8" DIA. HOLES FOR BOLT NO. 6A (TOP & BOTTOM).
- ⑤A TS 5 X 3 X 1/4" STRUCTURAL TUBING. USE 1" DIA. HOLES FOR BOLT NO. 6 IN TOP RAIL (FRONT & BACK). USE 1/8" X 1 3/8" HORIZONTAL SLOTTED HOLES FOR BOLT NO. 6 IN BOTTOM RAIL (FRONT & BACK) AND A 2" O.D. WASHER UNDER BOLT HEAD.
- ⑥ 1/2" DIA. A325 SLOTTED ROUND HEAD BOLT WITH HEX NUT, 3/8" X 1 3/4" X 1 3/4" WASHER, AND SPRING LOCK WASHER (2 REQUIRED AT RAIL TO POST LOCATIONS SHOWN).
- ⑥A 3/4" DIA. A325 BOLT WITH HEX NUT AND SPRING LOCK WASHER (1 REQUIRED AT RAIL TO ANGLE AND 2 REQUIRED AT ANGLE TO POST LOCATIONS SHOWN WITH 3/8" X 1 3/4" X 1 3/4" WASHER).
- ⑦ L 5 X 5 X 5/8" STRUCTURAL ANGLE. ATTACH TO NO. 1 AND NO. 5 AS SHOWN.
- ⑧ TS 5 X 5 X 5/8" X 2'-4" LONG SPLICE TUBE. 1 PER RAIL. USED IN NO. 5.
- ⑧A 4/4" X 2 1/8" X 2'-4" LONG SPLICE BAR. 1 PER RAIL. USED IN NO. 5A.
- ⑨ 3/4" DIA. A325 FULLY THREADED BOLTS, 7/2" LONG, WITH 2 WASHERS AND HEAVY HEX NUT ON EACH BOLT. NUT TO BE FINGER TIGHT. (4 REQUIRED PER SPLICE). USE 1" X 4" SLOTTED HOLES IN TOP AND BOTTOM OF NO. 5.
- ⑨A 3/4" DIA. A325 FULLY THREADED BOLTS, 4 1/2" LONG, WITH 2 WASHERS AND HEAVY HEX NUT ON EACH BOLT. NUT TO BE FINGER TIGHT. (4 REQUIRED PER SPLICE). USE 1" X 4" SLOTTED HOLES IN TOP AND BOTTOM OF NO. 5A.
- ⑩ SPLICE SLEEVE FABRICATED FROM 1/4" PLATE. PROVIDE "SLIDING FIT".
- ⊠ ROADWAY OPENING OR 2 1/2" MIN. FOR STRIP SEAL EXP. JOINT & 1/2" OPENING FOR A1 ABUTMENT. 1/2" AT FIXED JOINTS. SPLICES ARE REQUIRED IN ANY RAILING SPAN BETWEEN POSTS THAT CONTAINS A SUPERSTRUCTURE EXPANSION JOINT.
- ⚠ PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT PERMITTED ON THE ADJOINING SURFACES OF THE RAILS, SPLICE TUBES AND FILL PLATES.
- Ⓛ *6 BARS X 12'-0" LONG. BEND AS SHOWN. TIE TO TOP MAT OF STEEL. (DESIGNER TO PLACE THESE BARS IN BILL OF BARS FOR SUPERSTRUCTURE.)

NOTES

BID ITEM SHALL BE "RAILING TUBULAR TYPE NY4 GALVANIZED B-...", WHICH INCLUDES ALL ITEMS SHOWN.

RAILING SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES WHERE POSSIBLE.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT, AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS, ANGLES, SPLICE TUBES, SPLICE BARS AND STEEL TUBING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS.

RAIL POST, BASE PLATES, SPLICE BAR, ANGLES AND SPLICE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50. STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A CERTIFIED $f_y = 50$ KSI. ANCHOR PLATES & SHIMS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 36.

THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL 1/8 TURN.

FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO. 2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. CAULK AROUND PERIMETER OF NO. 2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

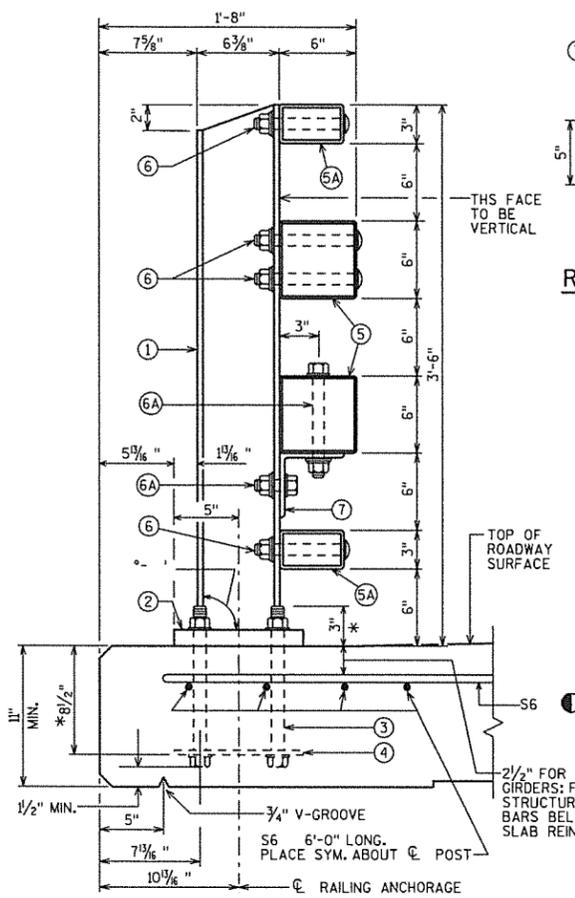
STEEL SHIMS SHALL BE PROVIDED & USED UNDER PLATE NO. 2 WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

PLACE FIRST BOTTOM LONGITUDINAL REINFORCING BAR CLEAR OF DRIP GROOVE.

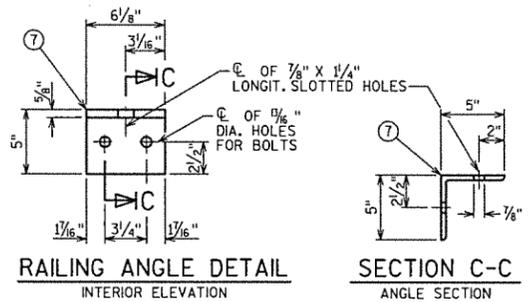
THIS RAILING MEETS NCHRP REPORT 350 EVALUATION CRITERIA FOR TEST LEVEL 4 (TL-4).

PAINT OVER GALVANIZING, ALL MATERIAL EXCEPT ANCHORAGE DETAIL (NO. 3 & NO. 4), WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE "BRIDGE SPECIAL PROVISIONS". THE RAILING SHALL BE PAINTED FEDERAL COLOR NO. _____

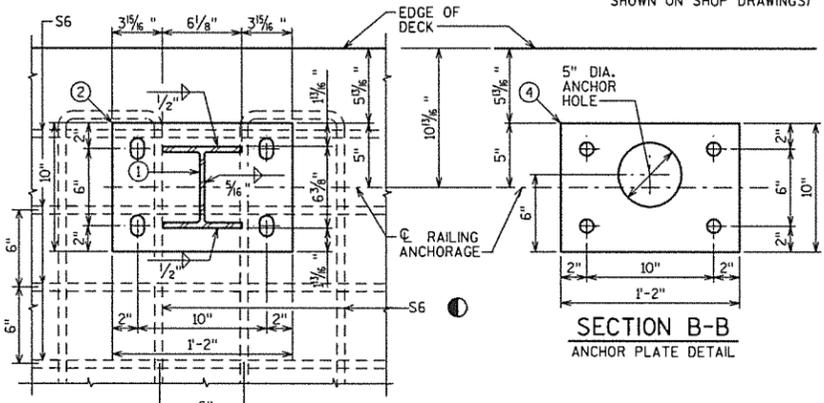
WORK THIS SHEET WITH "END POST DETAILS FOR TUBULAR STEEL RAILING TYPE NY4" SHEET.



SECTION THRU RAILING ON DECK
*NORMAL TO BASE PLATE

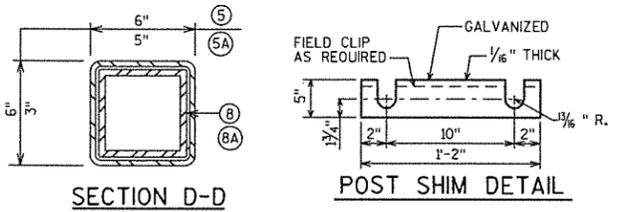


ANCHOR BOLTS
FOR ANCHOR BOLTS IN WINGS, TACK WELD MAY BE USED IN FIELD AFTER ANCHOR PLATE IS IN POSITION IF REQ'D. FOR CONSTRUCTABILITY.



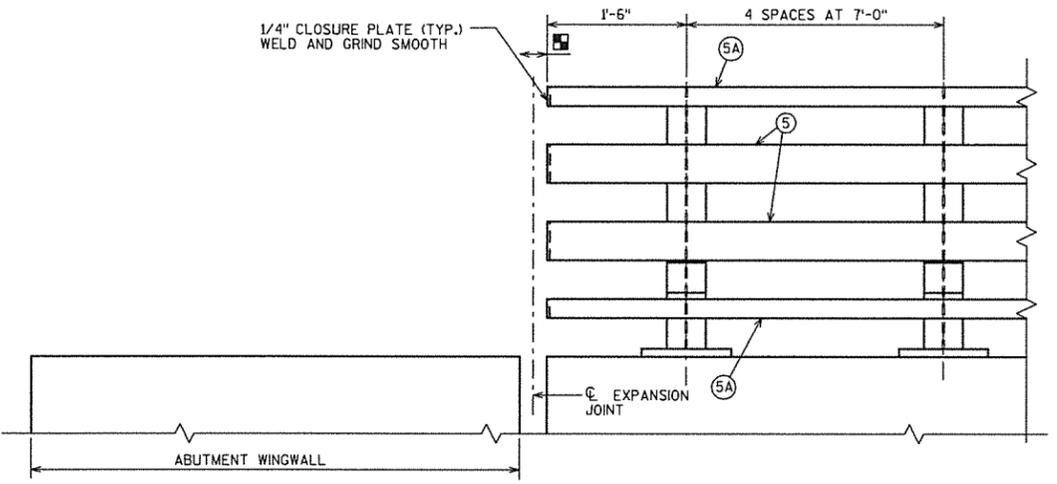
SECTION A-A
BASE PLATE DETAIL

SHOP RAIL SPLICE DETAIL
(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)

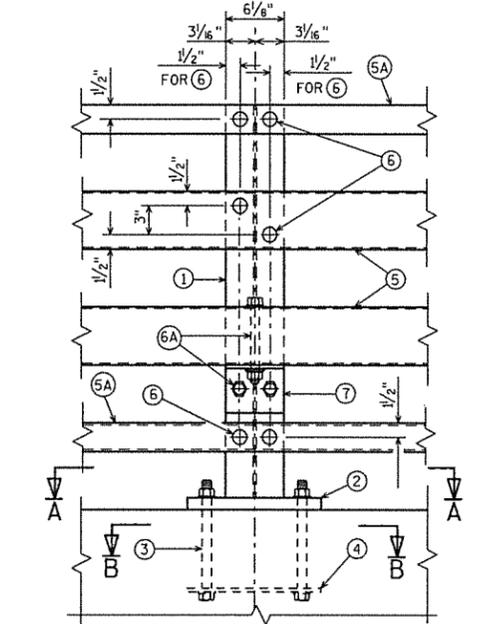


SECTION D-D

POST SHIM DETAIL



PART ELEVATION OF RAILING
INTERIOR ELEVATION

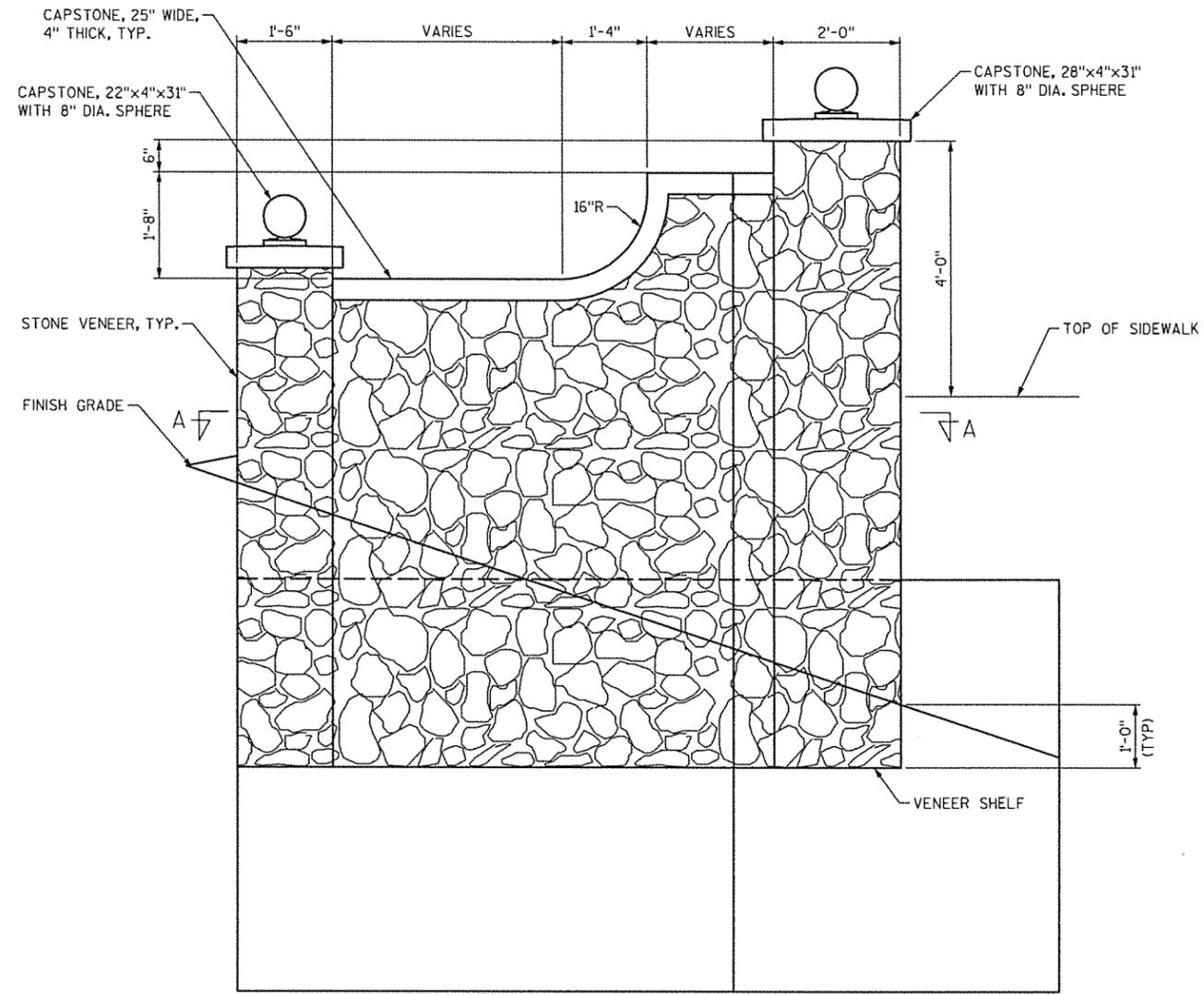


PART ELEVATION OF RAILING AT POST
INTERIOR ELEVATION

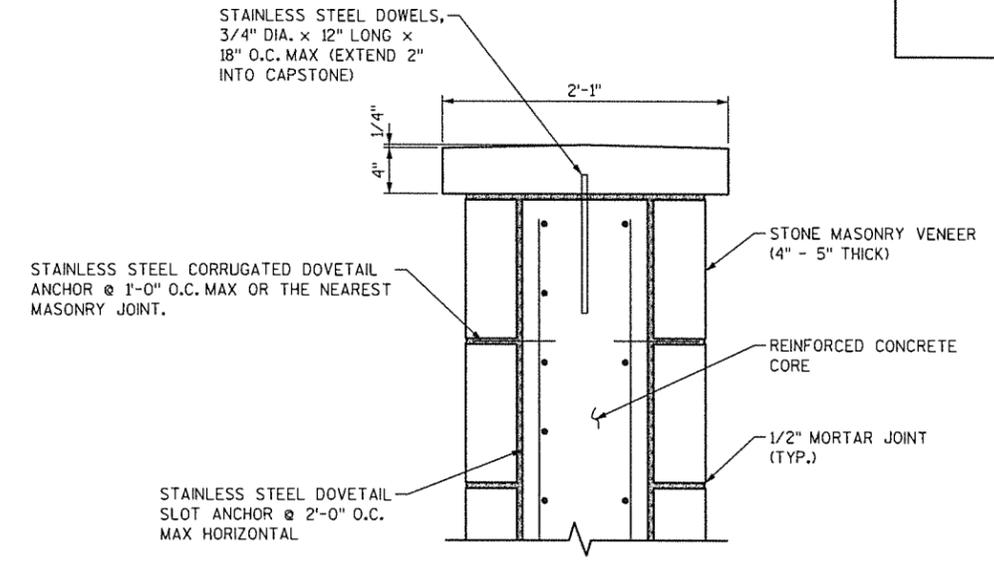
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-67-358			
DRAWN BY MHH		PLANS CK'D. SJD	
TUBULAR STEEL RAILING TYPE NY4			SHEET 10 OF 11

8

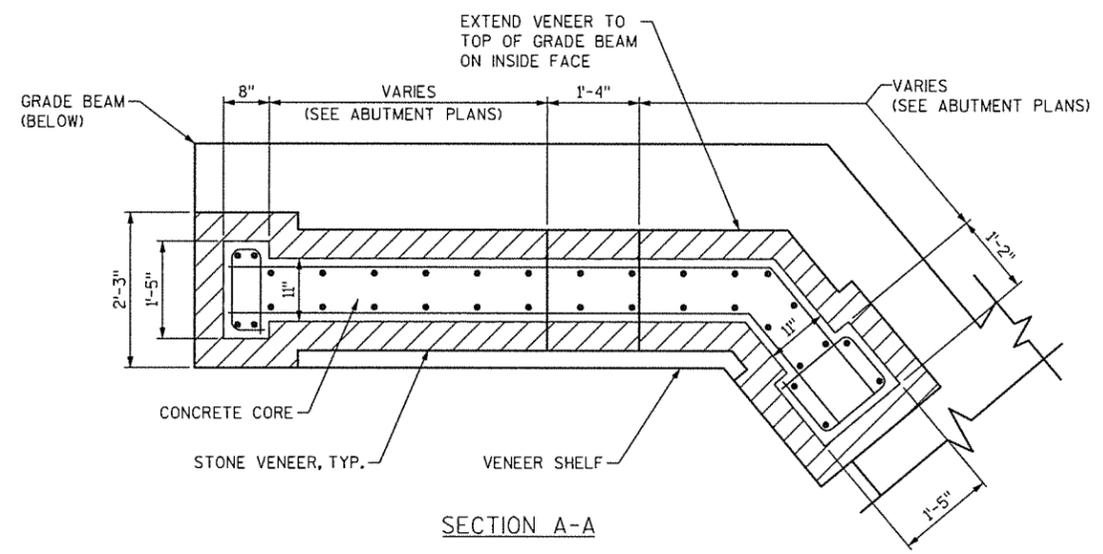
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TYPICAL WINGWALL ELEVATION (ARCHITECTURAL DETAILS)



VENEER ATTACHMENT DETAILS



SECTION A-A

8

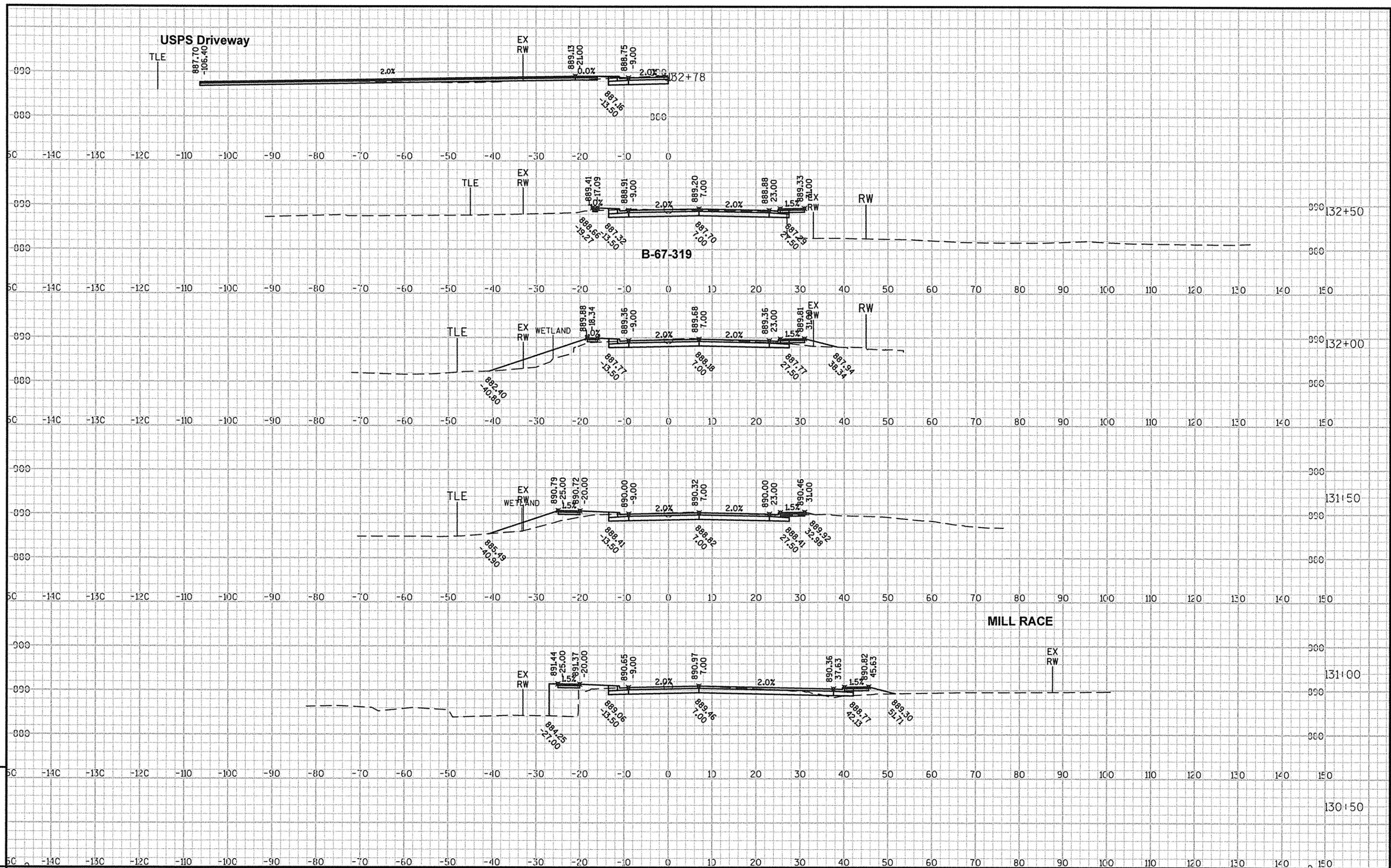
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NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-67-358			
DRAWN BY		MHH	PLANS CK'D. SJD
MASONRY DETAILS			SHEET 11 OF 11

GENESEE STREET (CTH C)

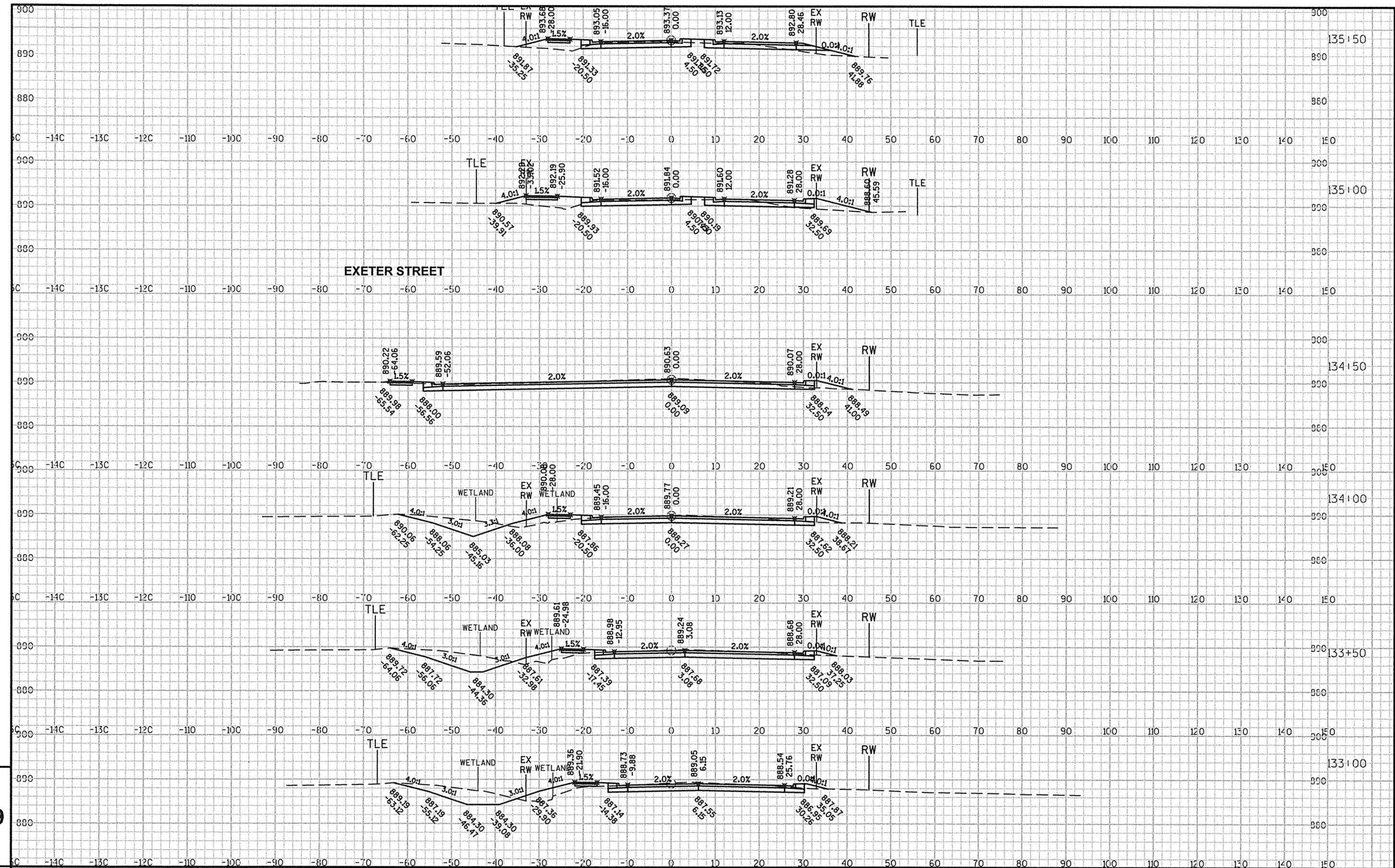
STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)	
		Cut	Salvaged/Unusable Pavement Material	Fill	Cut Note 1	Salvaged/Unusable Pavement Material Note 2	Fill Note 3	Cut 1.00 Note 1	Expanded Fill 1.30
130+55		0	0	0	0	0	0	0	0
131+00	45	61	0	98	103	0	165	103	215
131+50	50	63	0	38	115	0	126	218	379
132+00	50	59	0	47	113	0	78	331	481
132+50	50	58	0	1	108	0	44	439	539
132+78	28	49	0	13	56	0	7	495	548
133+00	22	69	0	36	48	0	14	543	556
133+50	50	75	0	29	134	0	60	676	635
134+00	50	74	0	27	138	0	52	814	702
134+50	50	125	0	15	184	0	39	999	752
135+00	50	50	0	51	161	0	61	1160	832
135+50	50	41	0	33	84	0	78	1244	933
136+00	50	8	0	39	45	0	67	1289	1020
136+50	50	8	0	25	15	0	59	1304	1097
137+00	50	5	0	36	12	0	56	1316	1170
137+50	50	11	0	0	15	0	33	1331	1213
138+00	50	11	0	13	21	0	12	1352	1229
138+50	50	16	0	11	25	0	22	1377	1258
139+00	50	9	0	14	23	0	23	1400	1287
139+50	50	3	0	31	12	0	42	1412	1341
140+00	50	3	0	57	6	0	82	1418	1447
140+50	50	11	0	5	13	0	57	1431	1522
141+00	50	22	0	0	31	0	4	1461	1527
141+50	50	58	0	0	75	0	0	1536	1527
142+00	50	29	0	0	81	0	0	1617	1527
142+50	50	15	0	0	41	0	0	1659	1527
142+74	24	5	0	0	9	0	0	1668	1527
143+00	26	24	0	0	14	0	0	1682	1527
143+50	50	43	0	0	62	0	0	1744	1527
144+00	50	29	0	1	67	0	1	1811	1529
144+50	50	53	0	1	76	0	2	1887	1531
145+00	50	85	0	0	128	0	1	2015	1532
145+50	50	59	0	0	134	0	0	2148	1532
146+00	50	49	0	8	100	0	8	2249	1542
146+11	11	16	0	0	13	0	2	2262	1544
146+50	39	58	0	7	59	0	7	2321	1551
147+00	50	68	0	10	117	0	15	2438	1571
147+50	50	63	0	2	121	0	11	2560	1585
148+00	50	28	0	3	84	0	5	2644	1591
148+50	50	47	0	3	69	0	6	2713	1598
149+00	50	54	0	4	94	0	6	2807	1607
149+16	16	10	0	0	19	0	1	2826	1608
149+50	34	38	0	6	43	0	4	2869	1612
150+00	50	37	0	5	70	0	11	2939	1626
150+50	50	37	0	5	69	0	9	3008	1638
151+00	50	31	0	2	63	0	7	3071	1647
151+50	50	26	0	0	53	0	3	3124	1650
151+89	39	7	0	0	24	0	0	3148	1650
152+00	11	16	0	6	7	0	1	3154	1651
152+50	50	22	0	8	35	0	13	3189	1669
152+71	21	12	0	0	13	0	3	3202	1673
153+00	29	25	0	4	21	0	5	3223	1674
153+50	50	24	0	13	46	0	16	3269	1696
154+00	50	36	0	9	56	0	20	3325	1722
154+22	22	0	0	0	14	0	3	3339	1727
					3339	0	1342	3339	1727

* COMBINED QUANTITY, ADDITIONAL QUANTITIES FOUND ELSEWHERE IN PLANS.



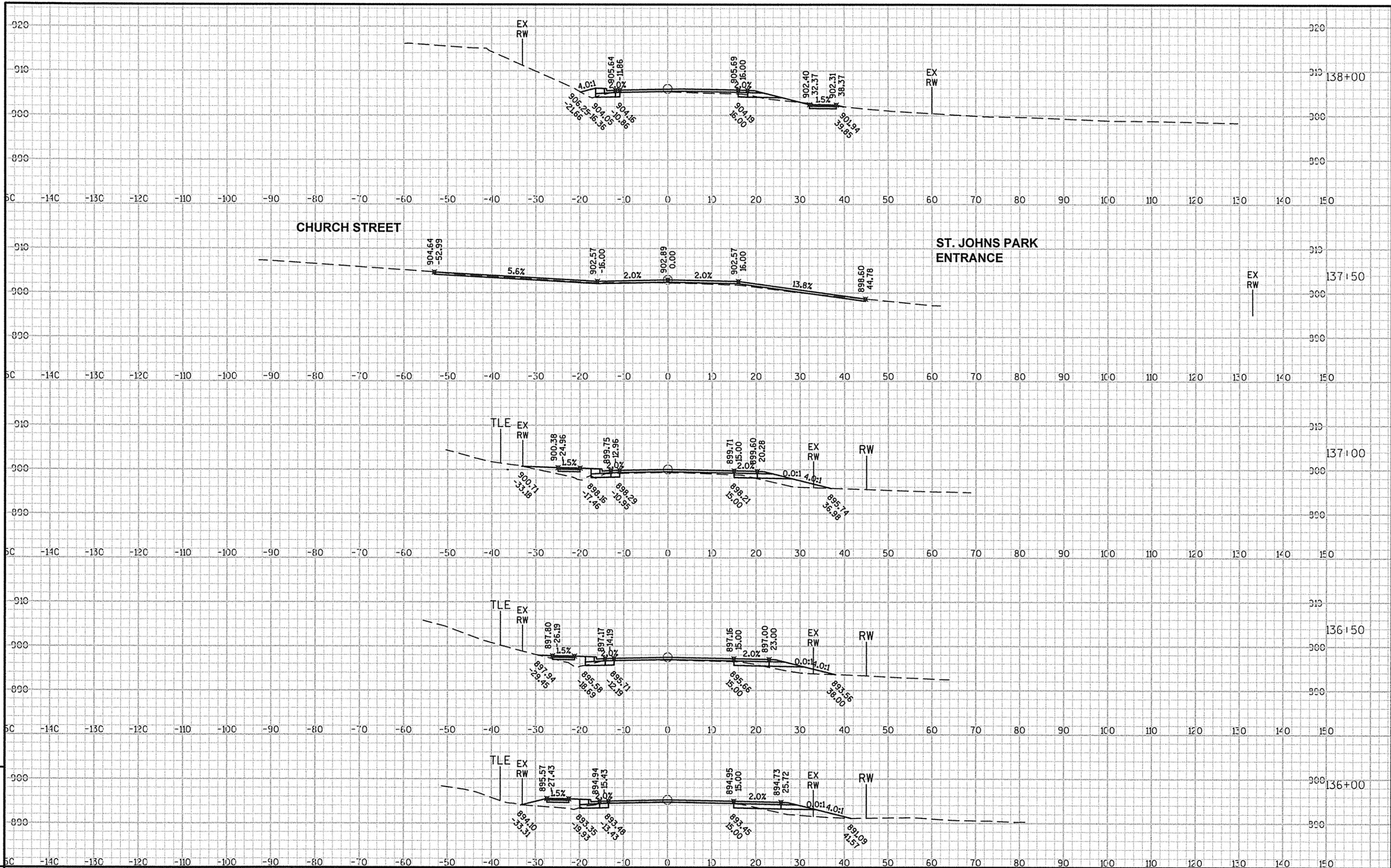
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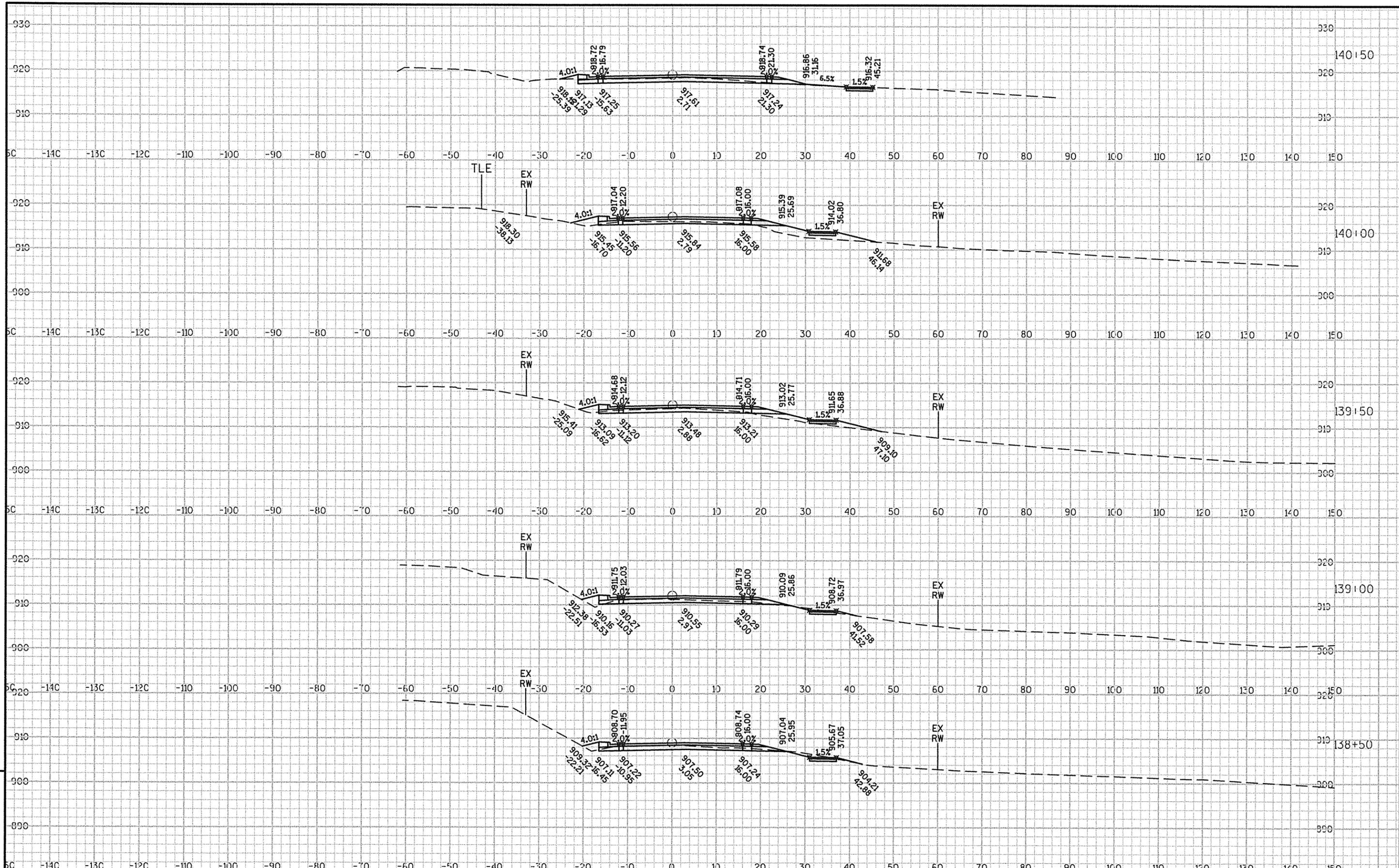


PROJECT NO: 14-3775(11) HWY: C.T.H. "C" COUNTY: WAUKESHA CROSS SECTIONS: GENESEE STREET SHEET E

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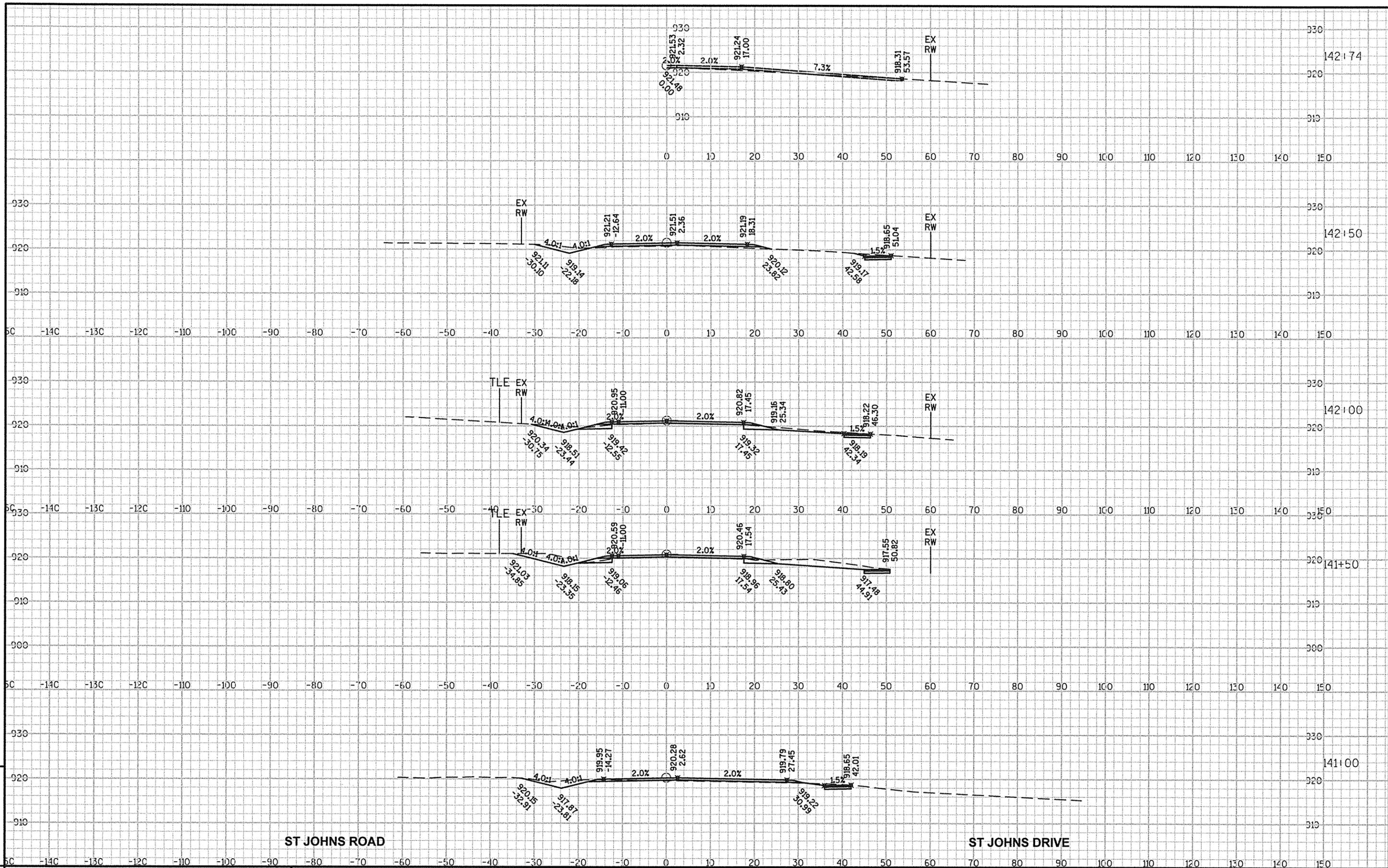


PROJECT NO: 14-3775(11) HWY: C.T.H. "C" COUNTY: WAUKESHA CROSS SECTIONS: GENESSEE STREET SHEET E



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ST JOHNS ROAD

ST JOHNS DRIVE

PROJECT NO: 14-3775(11)

HWY: C.T.H. "C"

COUNTY: WAUKESHA

CROSS SECTIONS: GENESEE STREET

SHEET

E

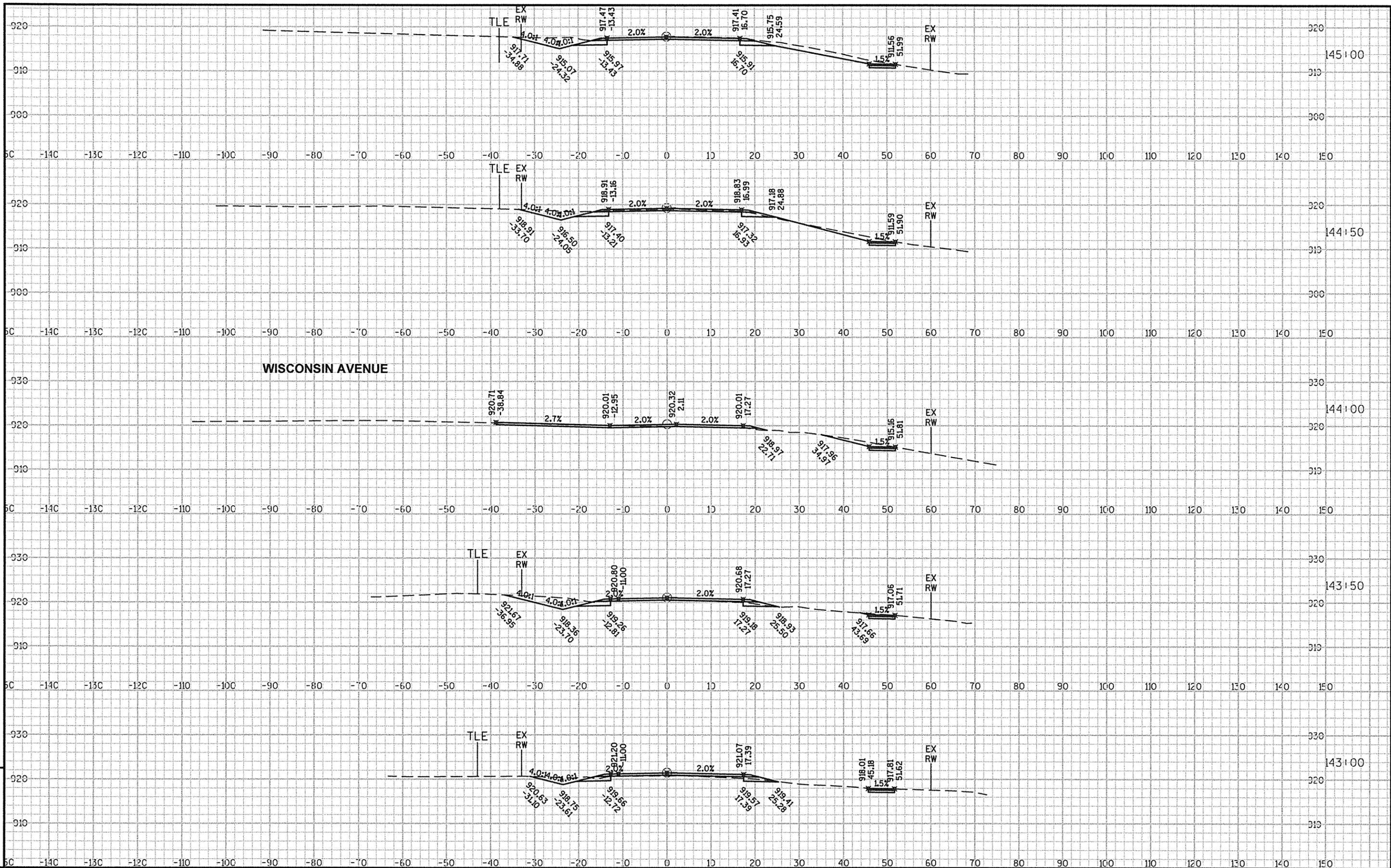
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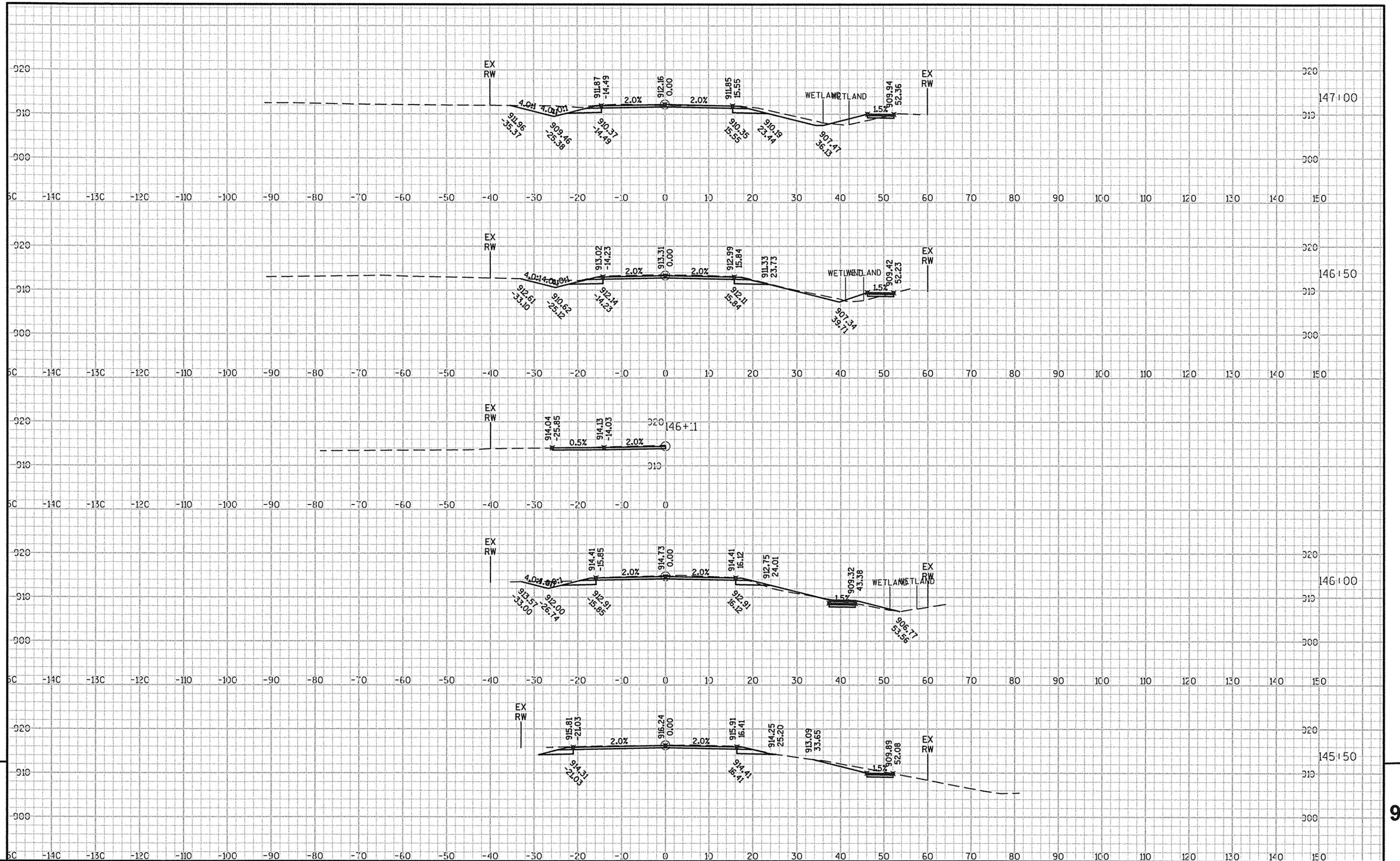
WISDOT/CADDS SHEET 49



WISCONSIN AVENUE

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PROJECT NO: 14-3775(11)

HWY: C.T.H. "C"

COUNTY: WAUKESHA

CROSS SECTIONS: GENESSEE STREET

SHEET

E

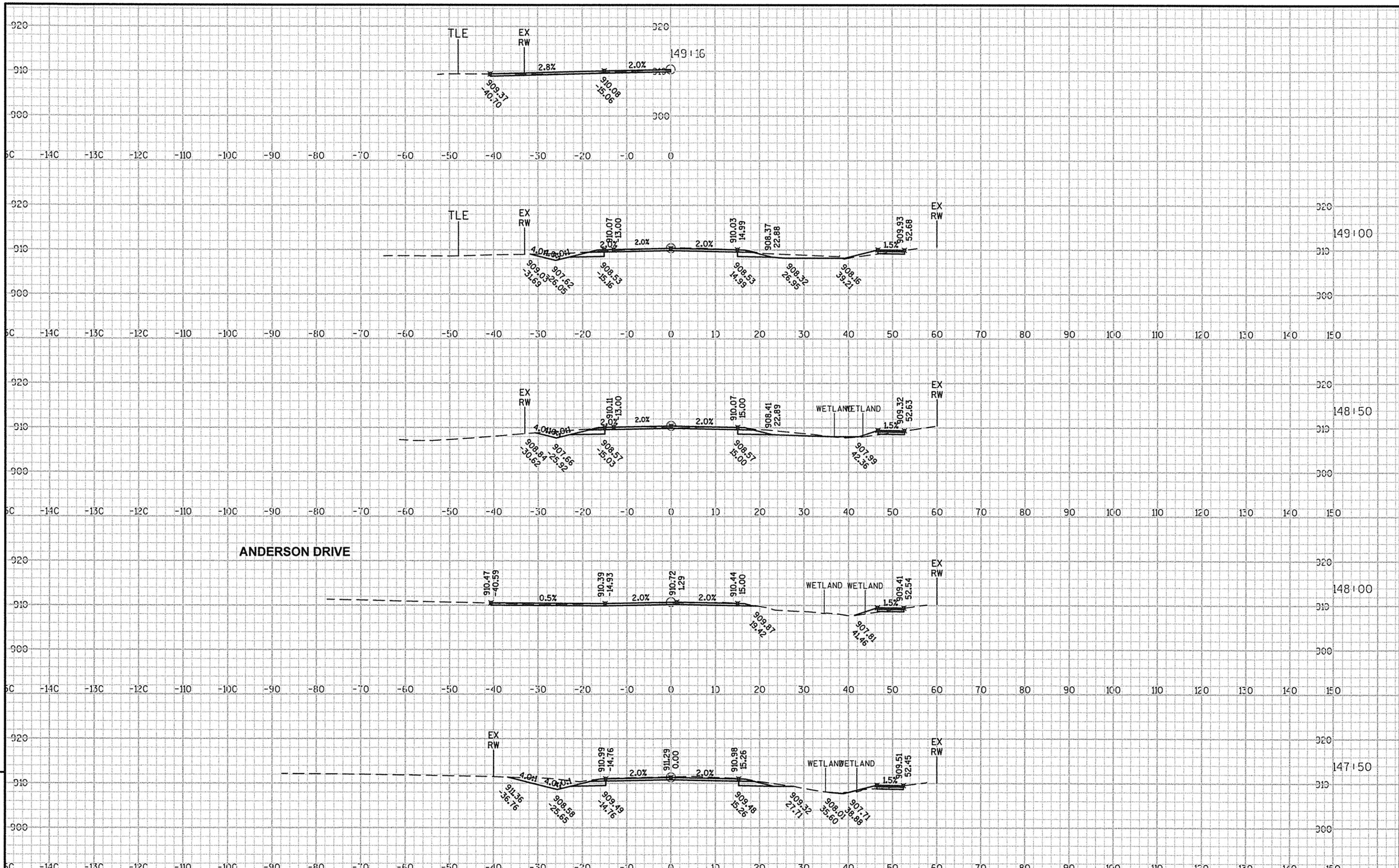
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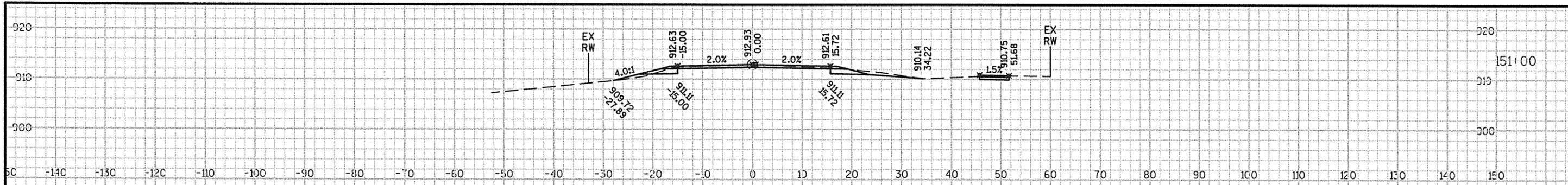
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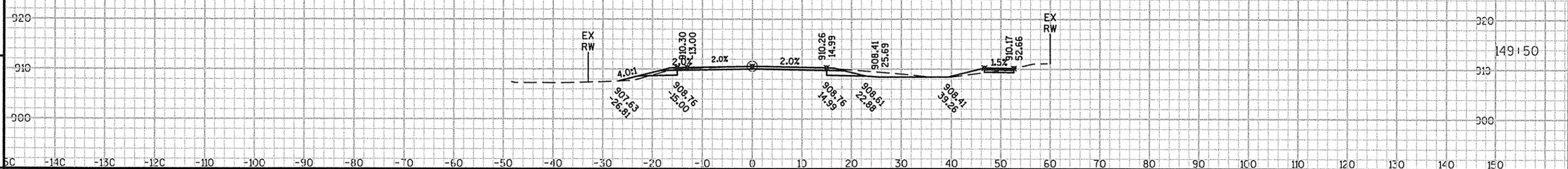
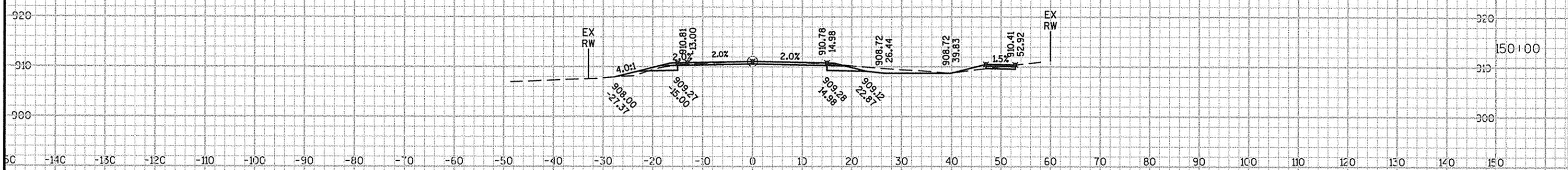
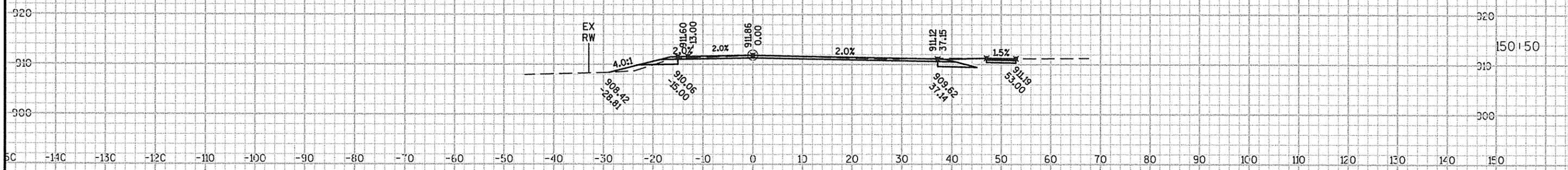
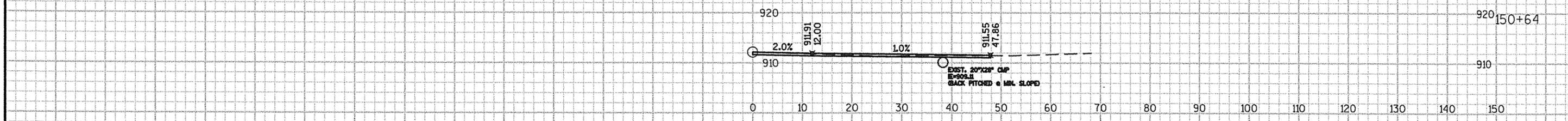


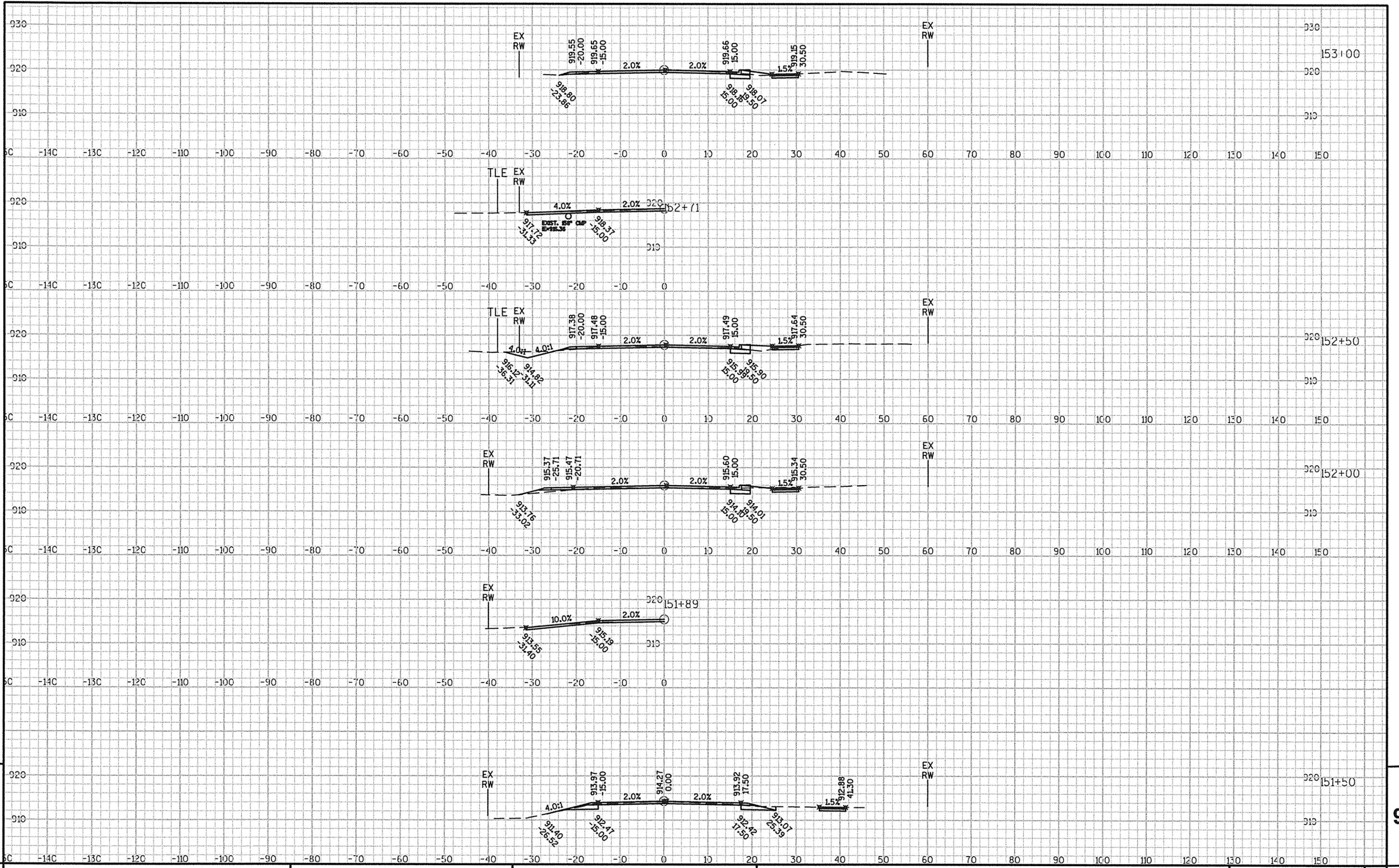
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ST JOHNS DRIVE





PROJECT NO: 14-3775(11)

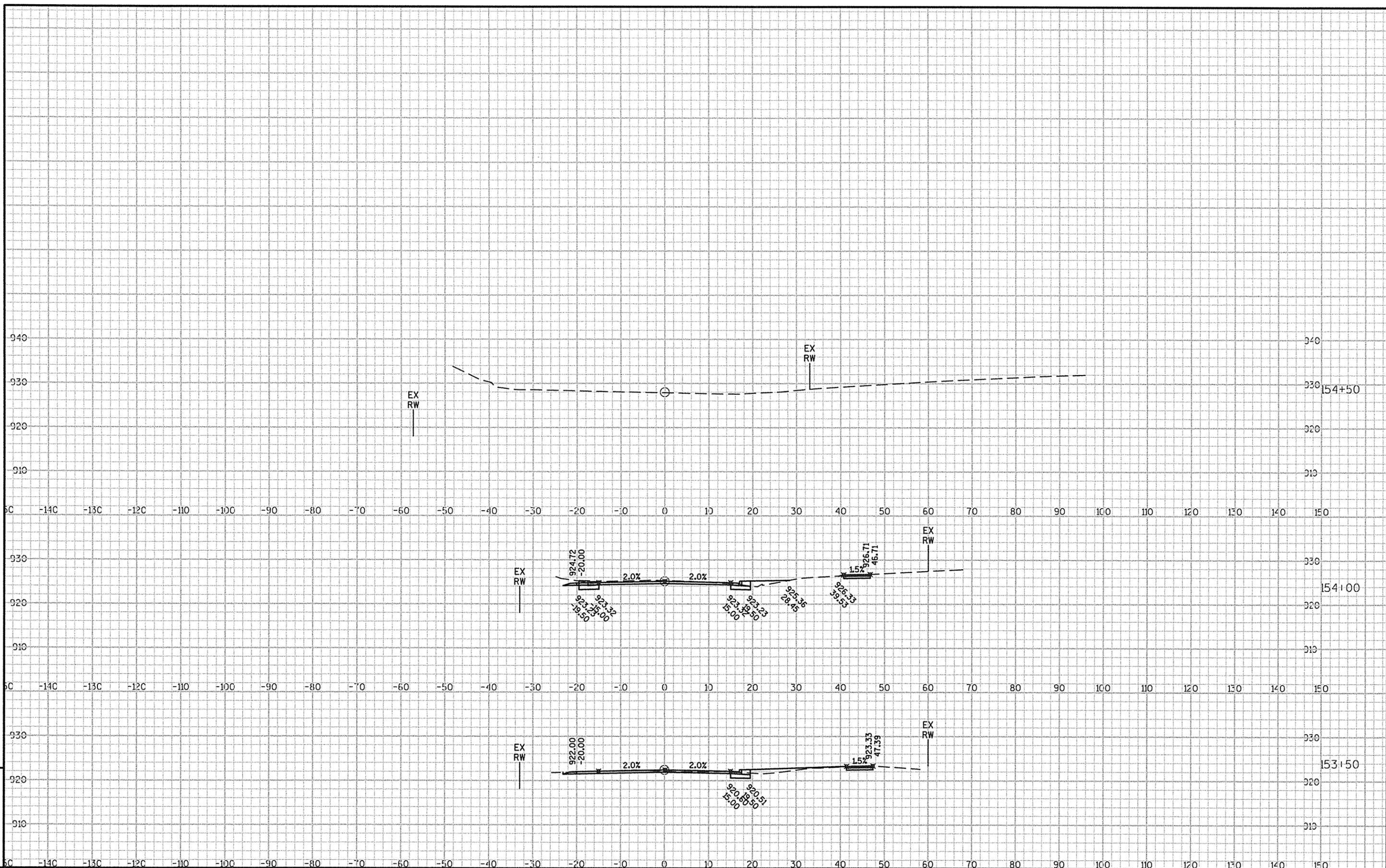
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COUNTY: WAUKESHA

CROSS SECTIONS: GENESSEE STREET

SHEET

E



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PROJECT NO: 14-3775(11) HWY: C.T.H. "C" COUNTY: WAUKESHA CROSS SECTIONS: GENESSEE STREET SHEET E

FILE NAME : S:\CAD PROJECTS\409-14 CTH C\SH\14-3775 (11) SHEET CROSS SECTION.DWG PLOT DATE : 7/28/2015 11:50 AM PLOT BY : CRAIG DONZE PLOT NAME :