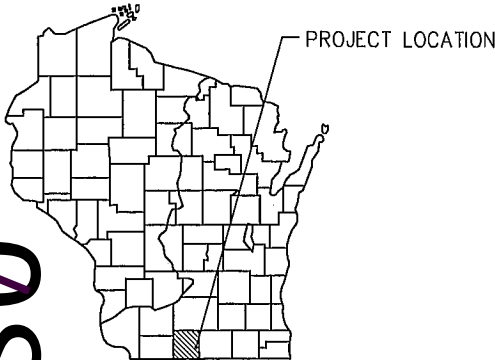


ORDER OF SHEETS

- Section No. 1 Title
- Section No. 2 Typical Sections and Details
(Including Erosion Control)
- 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 = 80



DESIGN DESIGNATION

- AADT (2015) = 2100
- AADT (2035) = 2500
- DHV (2035) = 275
- D (%) = 60/40
- T (% OF ADT) = 3.8%
- DESIGN SPEED = 45 MPH
- ESALS = 211,700

CONVENTIONAL SYMBOLS

PLAN

- SECTION LINE
- QUARTER LINE
- PROPERTY LINE
- LIMITED EASEMENT
- EXISTING R/W LINE
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- EXISTING CULVERT
- PROPOSED CULVERT
(Box or Pipe)
- COMBUSTIBLE FLUIDS
- MARSH AREA
- WOODED OR SHRUB AREA
- RIGHT-OF-WAY MARKERS

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- CULVERT (Profile View)

UTILITIES

- ELECTRIC
- OVERHEAD LINES
- FIBER OPTIC
- GAS
- SANITARY SEWER
- STORM SEWER
- TELEPHONE
- WATER
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

BRODHEAD - ALBANY

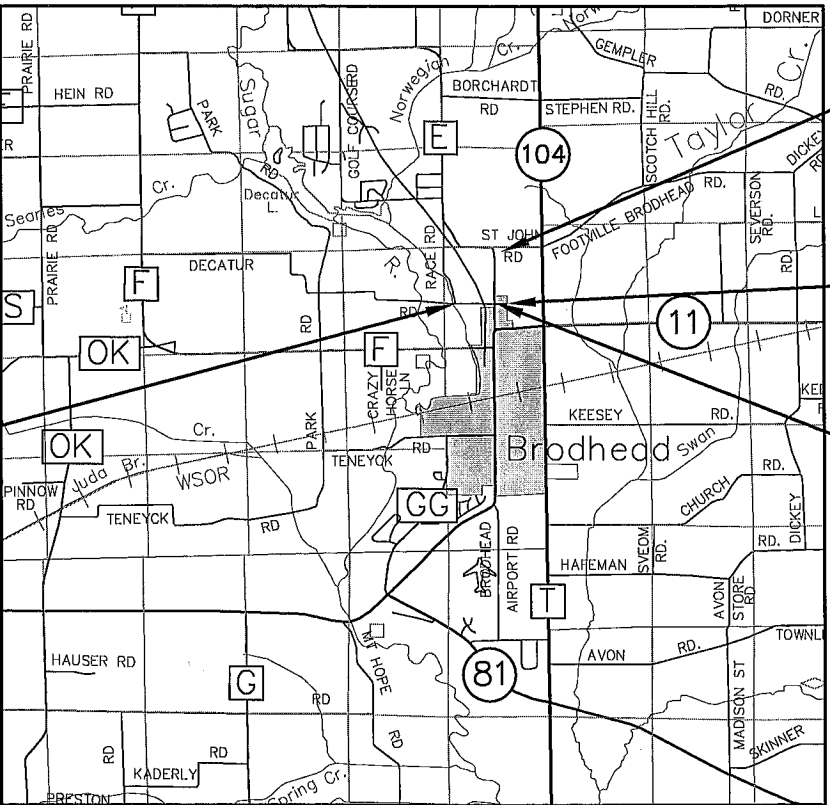
(McEWEN STREET TO ST JOHN ROAD)

CTH E

GREEN COUNTY

STATE PROJECT NUMBER

5605-00-70



BEGIN CONSTRUCTION

STA 200+02

Y - 148888.7009

X - 680087.0120

T-3-N

T-2-N

END PROJECT

STA 44+93.90

Y - 151892.8644

X - 681672.9798

END CONSTRUCTION

STA 230+25

Y - 148982.7849

X - 6823092.0512

BEGIN PROJECT

STA 11+50.00

Y - 148999.9480

X - 682332.2656

T-2-N

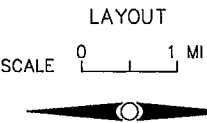
T-1-N

GREEN COUNTY

R-9 -E

R-10-E

ROCK COUNTY



TOTAL NET LENGTH OF CENTERLINE = 0.633 MI

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), GREEN COUNTY.

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
5605-00-70	WISC 2015282	1

ACCEPTED FOR
COUNTY OF GREEN
1/28/2015
DATE
Jeff M. Melville
HIGHWAY COMMISSIONER

ACCEPTED FOR
CITY OF BRODHEAD
1/28/2015
DATE
Mayor
MAYOR

ORIGINAL PLANS PREPARED BY
Cedar
corporation
MENOMONIE - MADISON - GREEN BAY
www.cedarcorp.com
800-472-7372

WISCONSIN
DAVID K. SAUER
E-18399
MADISON, WI
PROFESSIONAL ENGINEER

1-28-2015
DATE
David K. Sauer

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
Surveyor CEDAR CORPORATION
Designer CEDAR CORPORATION
Management Consultant KJohnson ENGINEERS INC.

APPROVED FOR THE DEPARTMENT
1/30/15
DATE
Jeff M. Melville
(Management Consultant Signature)

E

PROJECT ID: 5605-00-70
WITH: N/A

COUNTY: GREEN

2

LIST OF STANDARD ABBREVIATIONS

AC

AE

AH

ALUM MON

AP

BK

B/L

BM

BR

C/L

CC

A

CH

CONC MON

CTH

CMP

CONST

CP

CSM

D

DWY

EA

E

ERLY

X

ETAL

EX, EXIST

FE

FT

GAR

G

GN

GOV'T

H

INL

IP

LT

L

LIN FT

LC

LCB

MH

MI

N

Y

NO

OL

ACRE

APRON ENDWALL

AHEAD

ALUMINUM MONUMENT

ACCESS POINT

BACK

BASE LINE

BENCH MARK

BRIDGE

CENTER LINE

CENTER TO CENTER

CENTRAL ANGLE OR DELTA

CHORD LENGTH

CONCRETE MONUMENT

COUNTY TRUNK HIGHWAY

CORRUGATED METAL PIPE

CONSTRUCTION

CULVERT PIPE

CERTIFIED SURVEY MAP

DEGREE OF CURVE

DRIVEWAY

EACH

EAST OR EAST PROJECT COORDINATE

EASTERLY

EAST GRID COORDINATE

AND OTHERS

EXISTING

FIELD ENTERANCE

FEET

GARAGE

GAS

GRID NORTH

GOVERNMENT

HOUSE

INLET

IRON PIPE OR PIN

LEFT

LENGTH (OF CURVE)

LINEAR FOOT

LONG CHORD OF CURVE

LONG CHORD BEARING

MANHOLE

MILE

NORTH OR NORTH PROJECT COORDINATE

NORTH GRID COORDINATE

NUMBER

OUTLOT

OD

P

PLE

PERM

P/P

PT

PC

PI

PRC

PT

POC

POT

PE

PROJ

R

RCP

RP

RR

R

R/L

RP

REM

REQD

RES

RT

R/W

RD

SEC

SHLDR

SD

SF OR SQ FT

SSPRC

STH

STA

SUBD

T

TEMP

TLE

TL OR T/L

USH

VILL

VOL

W

WRLY

WISC

OUTSIDE DIAMETER

PAGE

PERMANENT LIMITED EASEMENT

PERMANENT

POWER POLE

POINT

POINT OF CURVATURE

POINT OF INTERSECTION

POINT OF REVERSE CURVATURE

POINT OF TANGENCY

POINT ON CURVE

POINT ON TANGENT

PRIVATE ENTRANCE

PROJECT

RADIUS

REINFORCED CONCRETE PIPE

RADIUS POINT

RAILROAD

RANGE

REFERENCE LINE

REFERENCE POINT

REMAINING

REQUIRED

RESIDENCE OR RESIDENTIAL

RIGHT

RIGHT-OF-WAY

ROAD

SECTION

SHOULDER

STORM DRAINAGE

SQUARE FEET

STORM SEWER PIPE REINFORCED CONCRETE

STATE TRUNK HIGHWAY

STATION

SUBDIVISION

TOWNSHIP

TEMPORARY

TEMPORARY LIMITED EASEMENT

TRANSIT LINE

U.S. HIGHWAY

VILLAGE

VOLUME

WEST

WESTERLY

WISCONSIN

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INTERSECTION DETAILS

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PAVEMENT MARKINGS

TRAFFIC CONTROL

ALIGNMENT/CONTROL

4.5" TOTAL DEPTH

2.5-INCH LOWER

2-INCH UPPER

TYPE

E-1

E-1

NOMINAL MAX SIZE GRADATION

19 MM

12.5 MM

PERFORMANCE GRADE

PG58-28

PG58-28

GREEN COUNTY

DNR LIAISON

DESIGN CONSULTANT

UTILITIES

GREEN COUNTY HIGHWAY DEPARTMENT

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jwunschel@greencountywi.org

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PROJECT MANAGER

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OPS ENGINEERING

100 COMMUNICATIONS DRIVE

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CELL: 262-325-7048

edward.o.stieber@ftr.com

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1348 PLAINFIELD AVE

JANESVILLE, WI 53545

PHONE: 608-373-7544

CELL: 608-209-3194

randy.steurer@chartercom.com]

PROJECT NO: 5605-00-70

HWY:CTH E

COUNTY:GREEN

GENERAL NOTES

SHEET

FILE NAME : I:\CLIENTS-MAD\B4893 BRODHEAD CITY OF\009 CTH E MCEWEN - ST JOHN\DWG\020101_GN_48930009.DWG

PLOT DATE : 12/18/2015 7:56 AM

PLOT BY : JOE PINGEL

PLOT NAME :

PLOT SCALE :

WSDOT/CADDs SHEET --

** NOT A MEMBER OF DIGGER'S HOTLINE

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TYPICAL SECTIONS

CONSTRUCTION DETAILS

INTERSECTION DETAILS

EROSION CONTROL

PAVEMENT MARKINGS

TRAFFIC CONTROL

ALIGNMENT/CONTROL

4.5" TOTAL DEPTH

2.5-INCH LOWER

2-INCH UPPER

TYPE

E-1

E-1

NOMINAL MAX SIZE GRADATION

19 MM

12.5 MM

PERFORMANCE GRADE

PG58-28

PG58-28

GREEN COUNTY

DNR LIAISON

DESIGN CONSULTANT

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BRODHEAD WATER & LIGHT

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PROJECT NO: 5605-00-70

HWY:CTH E

COUNTY:GREEN

GENERAL NOTES

SHEET

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PLOT DATE : 12/18/2015 7:56 AM

PLOT BY : JOE PINGEL

PLOT NAME :

PLOT SCALE :

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INTERSECTION DETAILS

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PAVEMENT MARKINGS

TRAFFIC CONTROL

ALIGNMENT/CONTROL

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2.5-INCH LOWER

2-INCH UPPER

TYPE

E-1

E-1

NOMINAL MAX SIZE GRADATION

19 MM

12.5 MM

PERFORMANCE GRADE

PG58-28

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DESIGN CONSULTANT

UTILITIES

GREEN COUNTY HIGHWAY DEPARTMENT

ATTN: JEFF WUNSCHEL

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MONROE, WI 53566

PHONE: 608-328-9411

jwunschel@greencountywi.org

DEPARTMENT OF NATURAL RESOURCES

ATTN: LAURA BUB

3911 FISH HATCHERY ROAD

FITCHBURG, WI 53711

PHONE: 608-275-3485

laura.bub@wisconsin.gov

CEDAR CORPORATION

ATTN: DAVE SAUER

2820 WALTON COMMONS WEST, SUITE 142

MADISON, WI 53718

PHONE: 608-354-0037

dave.sauer@cedarcorp.com

CITY OF BRODHEAD

PUBLIC WORKS

ATTN: RICH VOGEL

1500 11th STREET

BRODHEAD, WI 53520

PHONE: 608-897-4384

CELL: 608-931-3512

publicworks@cityofbrodheadwi.us

WE ENERGIES

ATTN: LATROY BRUMFIELD

PROJECT MANAGER

333 W EVERITT ST

MILWAUKEE, WI 53203

PHONE: 414-221-5617

CELL: 414-975-9053

LaTroy.Brumfield@we-energies.com

BRODHEAD WATER & LIGHT

WATER

ATTN: PAT SULLIVAN

507 19th STREET

PO BOX 227

BRODHEAD, WI 53520

PHONE: 608-558-0598

psullivan@brodheadwl.com

BRODHEAD WATER & LIGHT

ELECTRIC

ATTN: TOM NIPPLE

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PO BOX 227

BRODHEAD, WI 53520

PHONE: 608-558-9405

tnipple@brodheadwl.com

ALLIANT ENERGY

ATTN: STEVE LARSEN

1915 STH 69S

MONROE, WI 53566

PHONE: 608-328-5339

CELL: 608-751-7654

SteveLarsen@alliantenergy.com

FRONTIER COMMUNICATIONS

ATTN: ED STIEBER

OPS ENGINEERING

100 COMMUNICATIONS DRIVE

SUN PRAIRIE, WI 53590

PHONE: 608-837-1410

CELL: 262-325-7048

edward.o.stieber@ftr.com

CHARTER COMMUNICATIONS

ATTN: RANDY STEURER

CONSTRUCTION COORDINATOR

1348 PLAINFIELD AVE

JANESVILLE, WI 53545

PHONE: 608-373-7544

CELL: 608-209-3194

randy.steurer@chartercom.com]

PROJECT NO: 5605-00-70

HWY:CTH E

COUNTY:GREEN

GENERAL NOTES

SHEET

FILE NAME : I:\CLIENTS-MAD\B4893 BRODHEAD CITY OF\009 CTH E MCEWEN - ST JOHN\DWG\020101_GN_48930009.DWG

PLOT DATE : 12/18/2015 7:56 AM

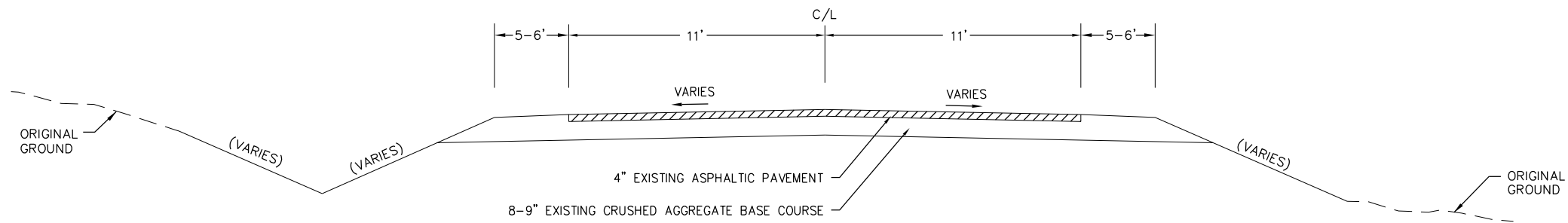
PLOT BY : JOE PINGEL

PLOT NAME :

PLOT SCALE :

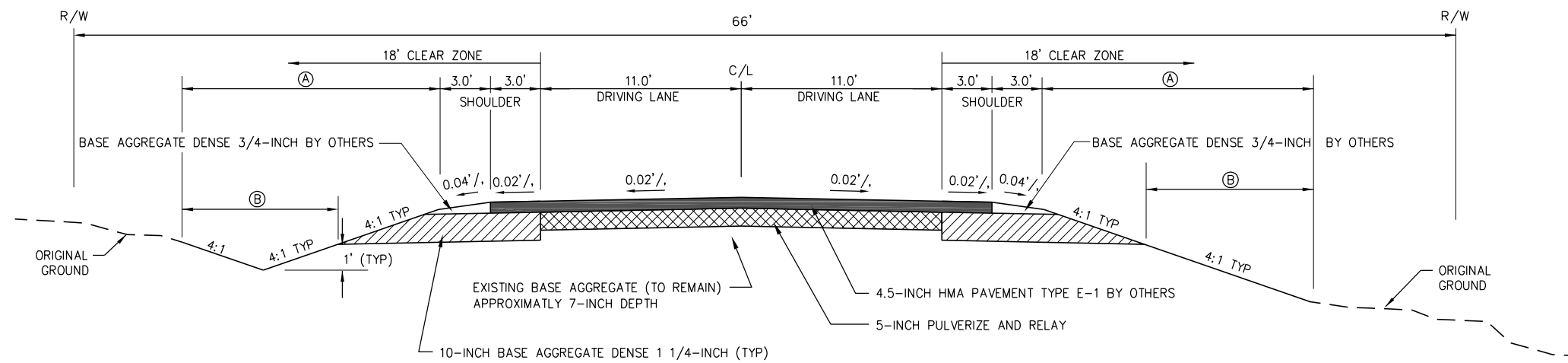
WSDOT/CADDs SHEET --

** NOT A MEMBER OF DIGGER'S HOTLINE



TYPICAL EXISTING SECTION (CTHE)

NO SCALE

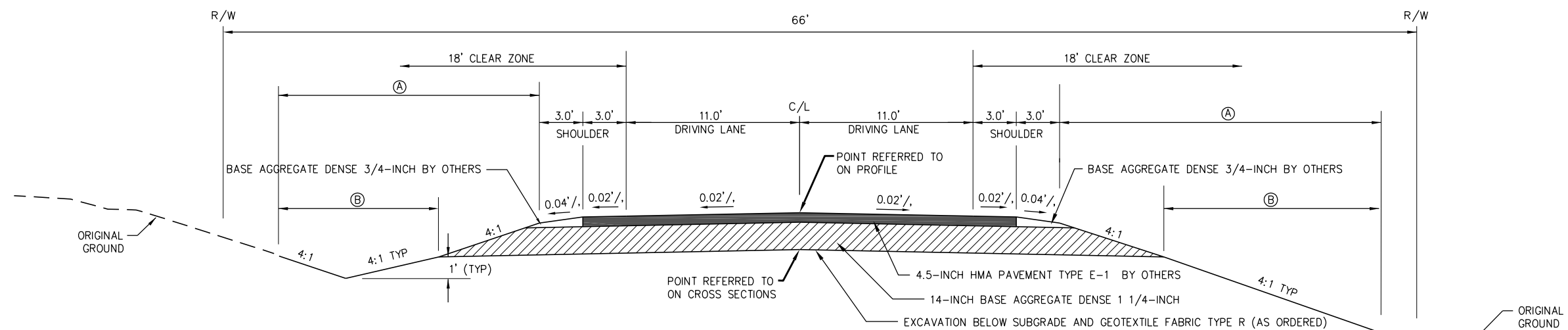


TYPICAL FINISHED SECTION (CTH E) - PAVEMENT REPLACEMENT

STA 11+50 - STA 33+50

Ⓐ FERTILIZER TYPE B, SEEDING & SEEDING TEMPORARY

Ⓑ SALVAGED TOPSOIL & MULCHING

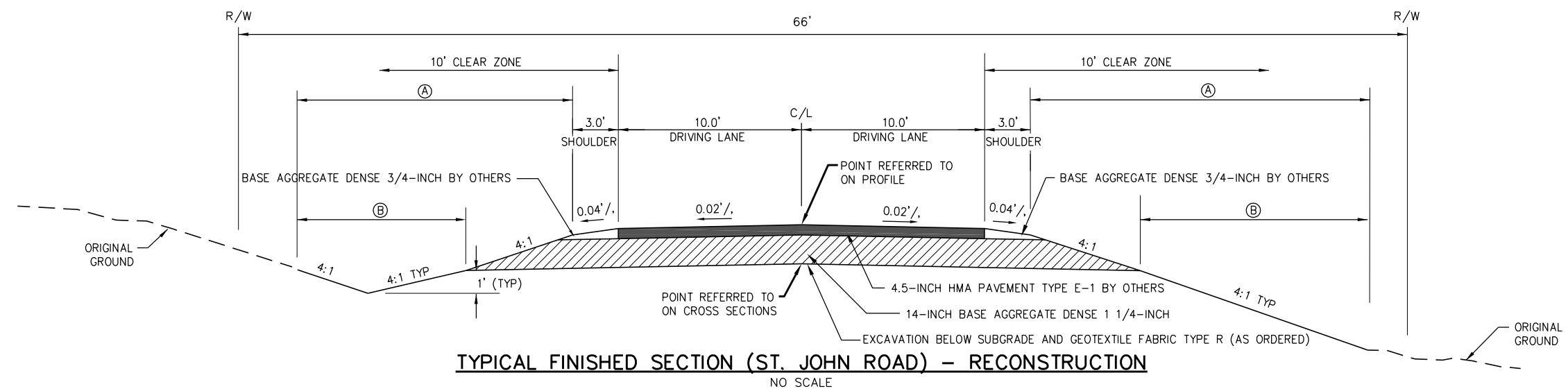
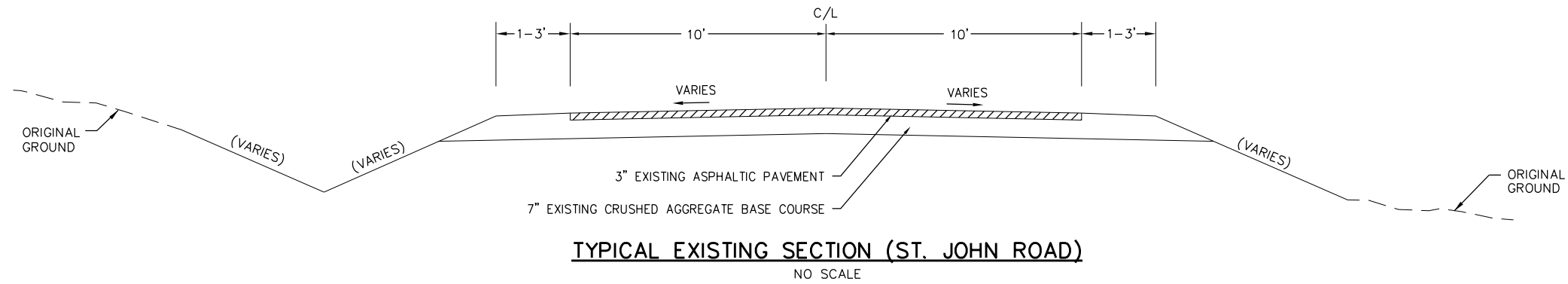


TYPICAL FINISHED SECTION (CTH E) - RECONSTRUCTION

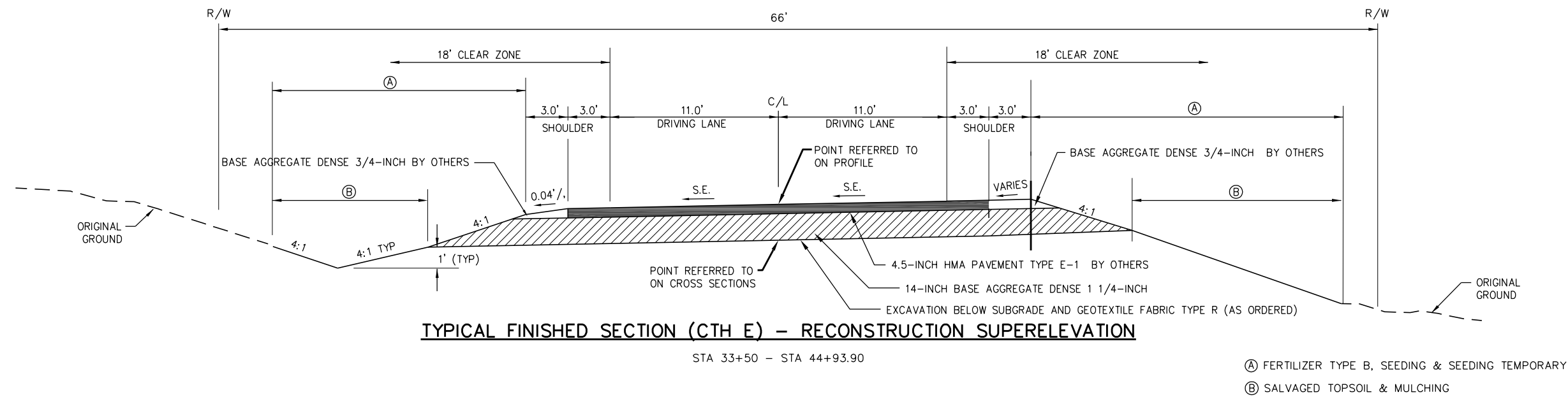
STA 33+50 - STA 44+93.90

Ⓐ FERTILIZER TYPE B, SEEDING & SEEDING TEMPORARY

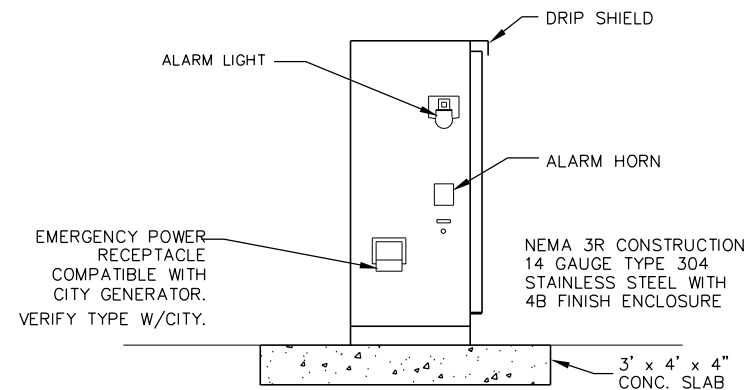
Ⓑ SALVAGED TOPSOIL & MULCHING



- Ⓐ FERTILIZER TYPE B, SEEDING & SEEDING TEMPORARY
- Ⓑ SALVAGED TOPSOIL & MULCHING

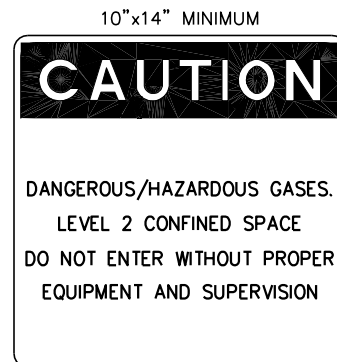


CURVE NUMBER									PC SIDE OF CURVE				PT SIDE OF CURVE			
	PC STA	PI STA	PT STA	RADIUS	SUPER ELEVATION	DESIGN SPEED	RUNOFF* RUNOUT*	TANGENT	NORMAL		REVERSE CROWN	FULL SUPER	FULL SUPER	REVERSE CROWN	FLAT	NORMAL CROWN
									CROWN	FLAT						
1	36+59.54	39+62.13	42+64.71	390.00	6.0%	35	116	39	35+43.21	35+82.21	36+20.87	36+98.21	42+26.04	43+03.38	43+42.04	43+81.04

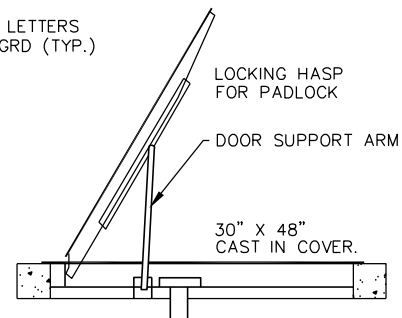


BURY ALL RIGID CONDUIT TO LIFT STATION (2' DEPTH).
PANEL SO DOOR OPENS TOWARDS PIT AND
LIGHT VISIBLE TO ROAD

CONTROL PANEL ENCLOSURE



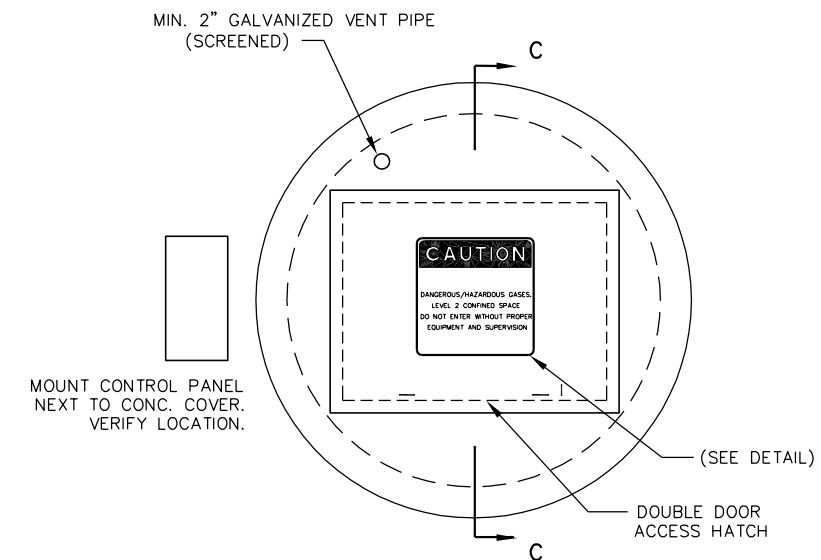
1" MIN. BLACK LETTERS
ON YELLOW BKGRD (TYP.)



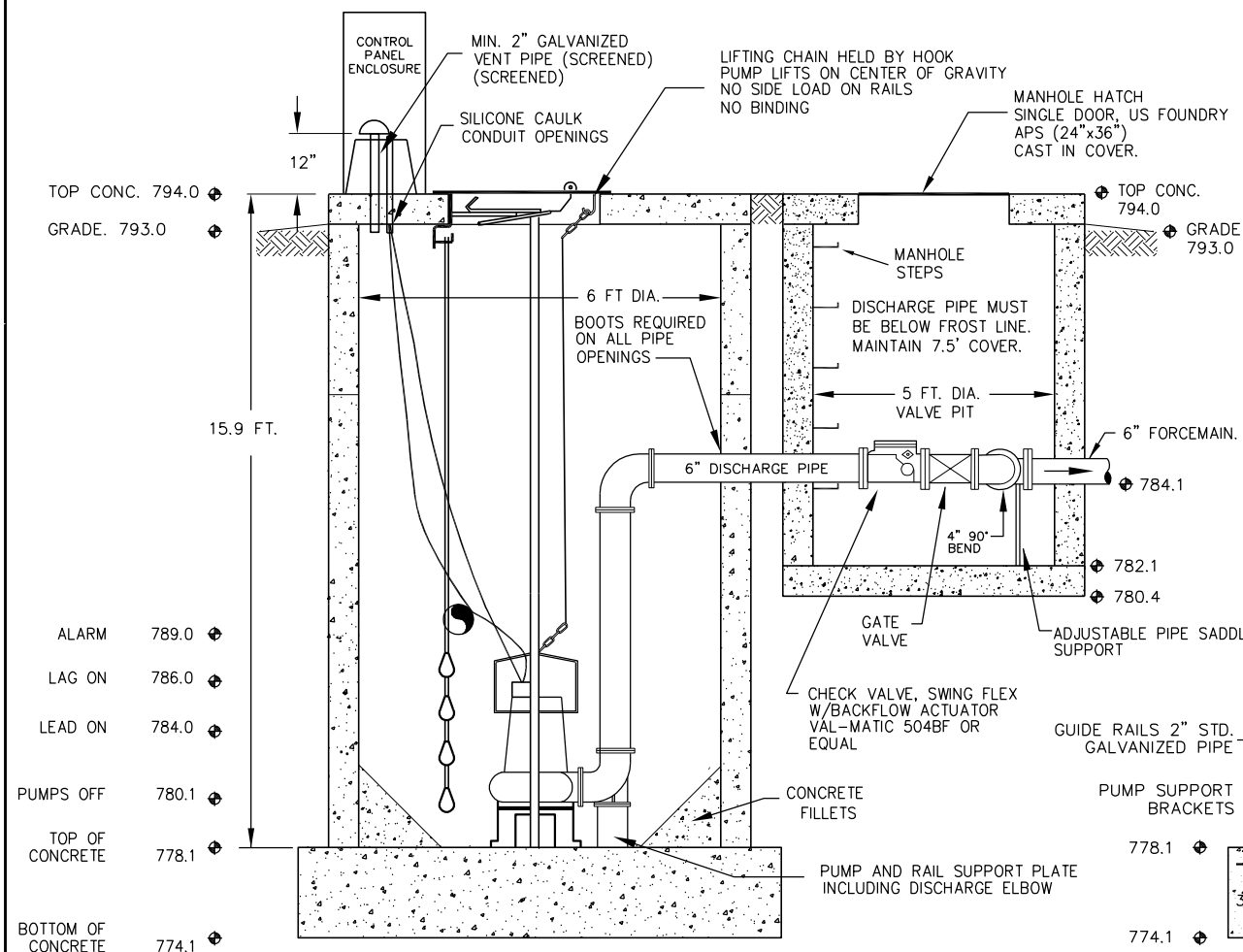
ACCESS DOOR DETAIL

VIEW OF FRAME WITH
DOOR IN OPEN POSITION

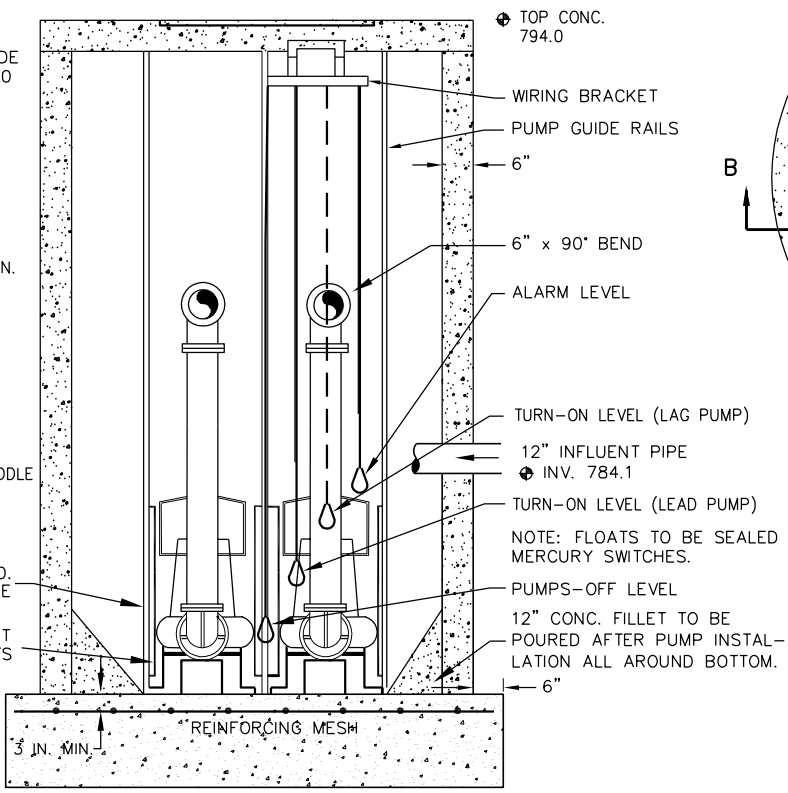
SECTION C-C



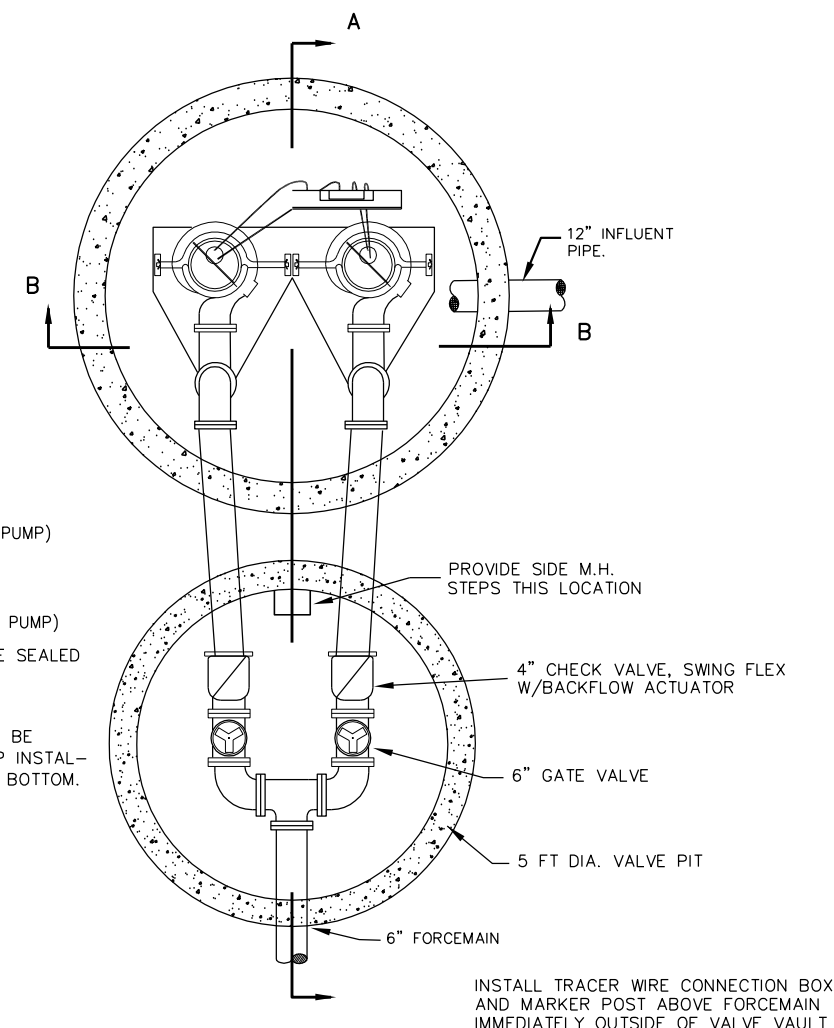
COVER DETAIL



SECTION A-A

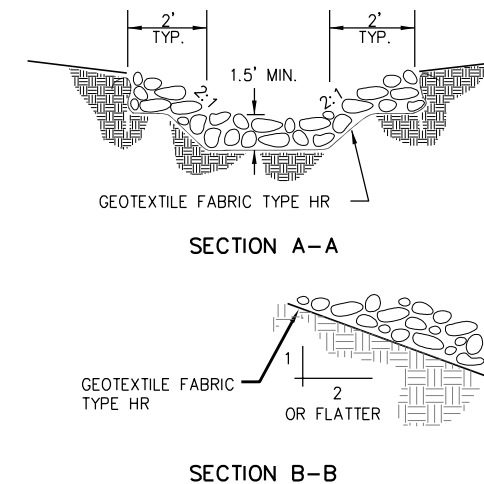
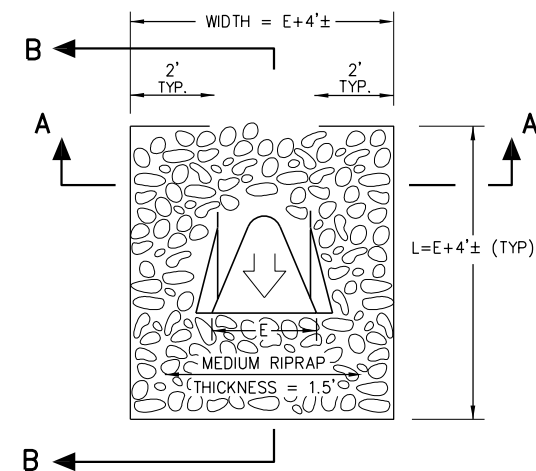
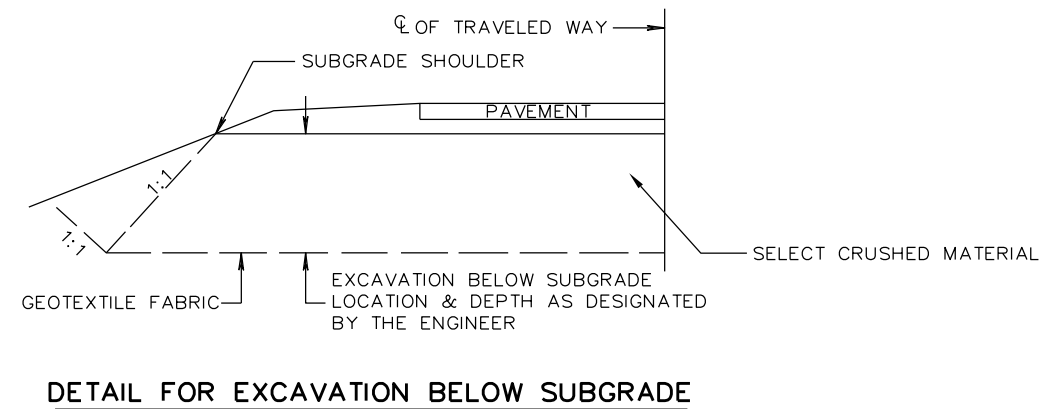
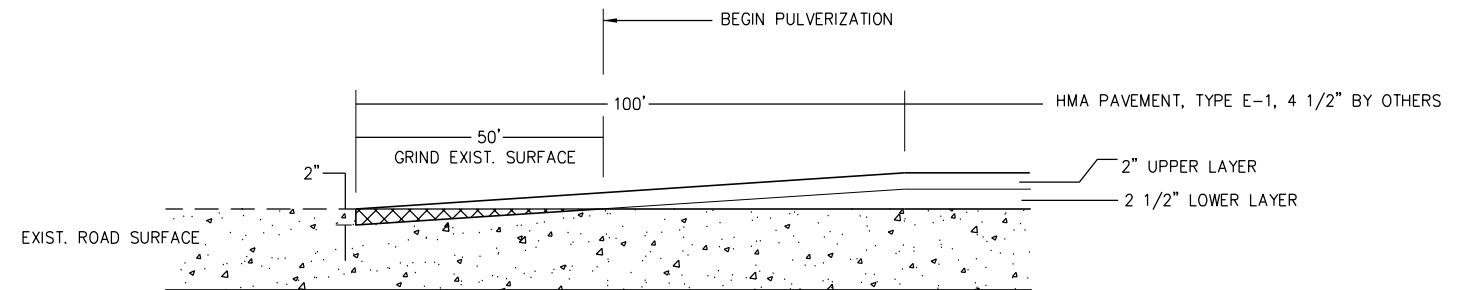
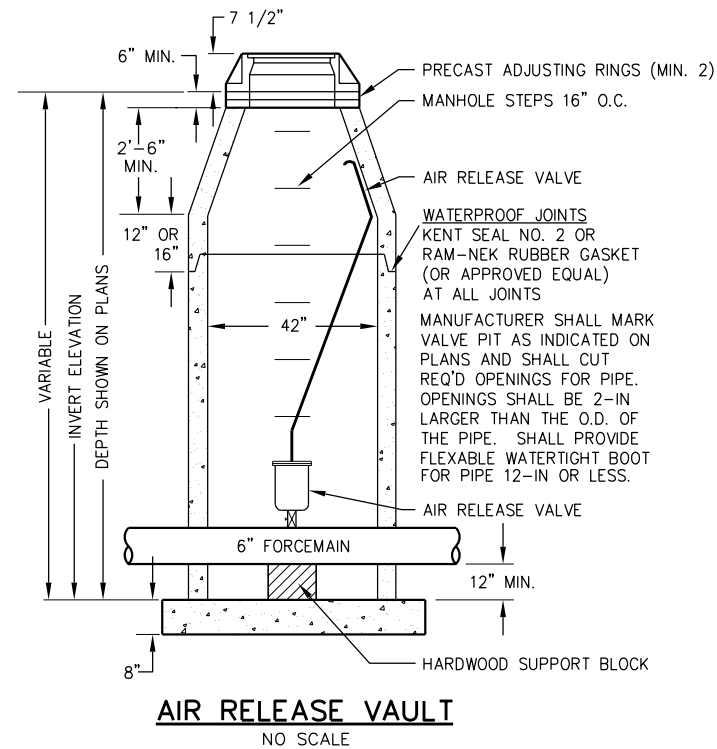


SECTION B-B

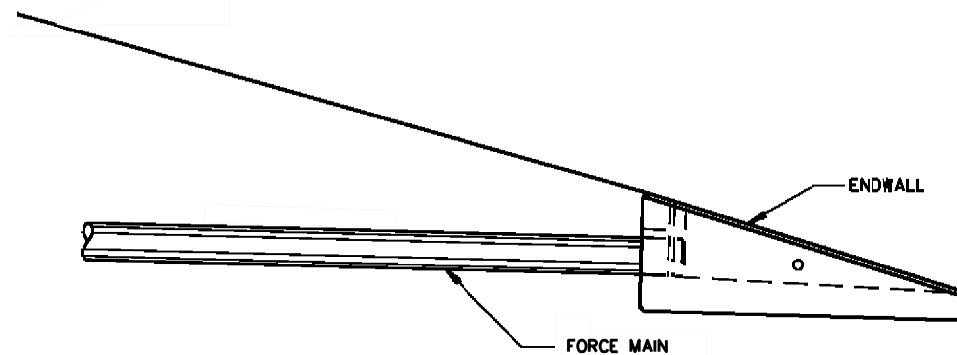


STORM SEWER LIFT STATION AND VALVE VAULT

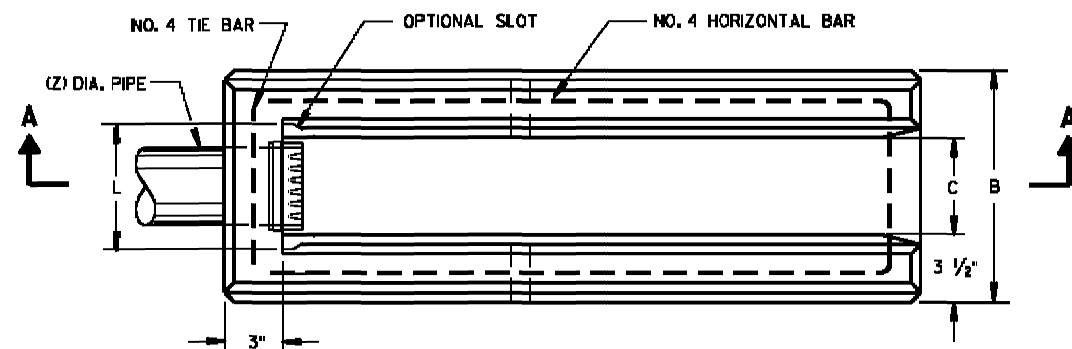
NO SCALE



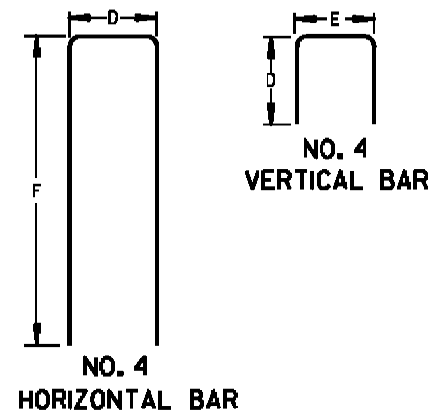
DIMENSIONS IN INCHES											
PIPE DIA.	A	B	C	D	E	F	G	H	J	L	Z
6	8	14	7 1/4	11	10	42	44	13	3 5/8	8 1/2	6



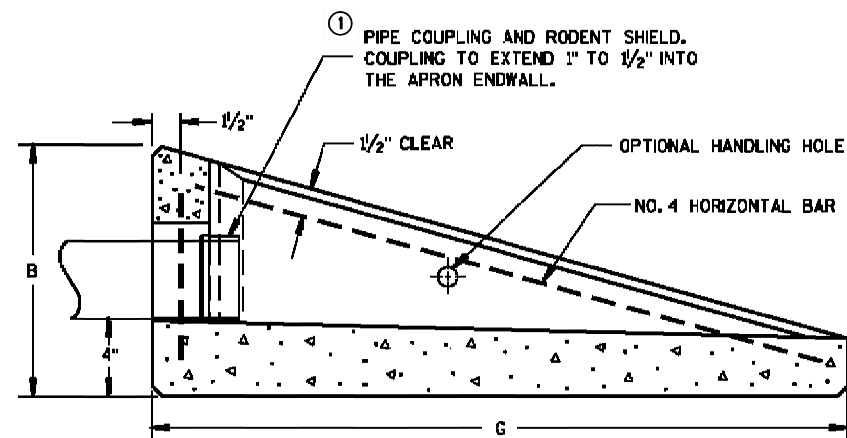
INSTALLATION DETAIL



PLAN VIEW

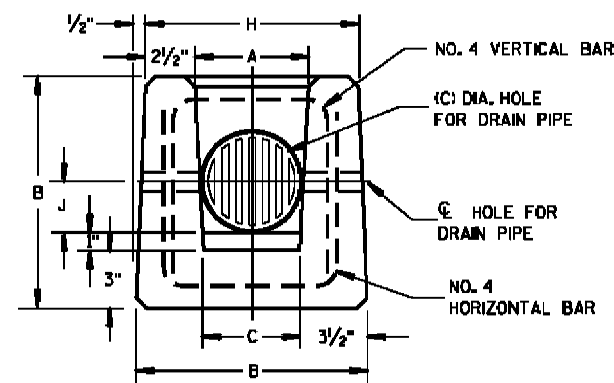


BAR STEEL REINFORCEMENT DETAILS



SECTION A-A

CONCRETE APRON ENDWALL FOR FORCE MAIN



END VIEW

GENERAL NOTES

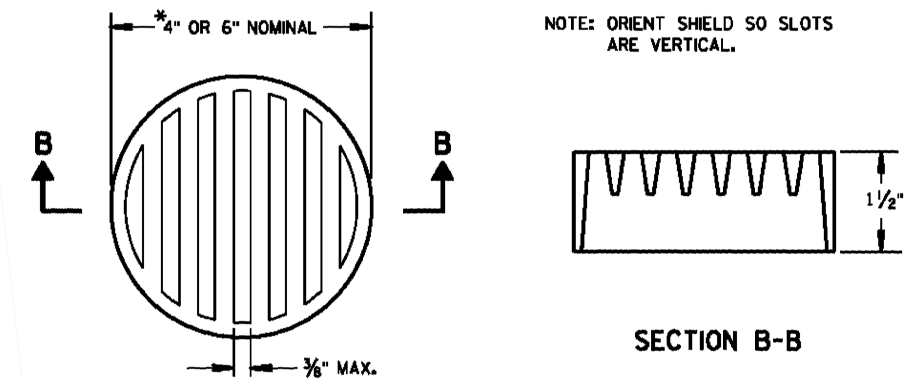
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

THE FORCE MAIN PIPE SHALL BE FULLY INSERTED AND SEALED INTO THE ENDWALL WITH CEMENT MORTAR PRIOR TO BACKFILLING AROUND THE STRUCTURE.

THE UPPERMOST POINT OF THE ENDWALL SHALL BE PLACED FLUSH WITH THE ROADWAY SLOPE. ADJACENT EMBANKMENT SLOPES SHALL BE SHAPED TO FIT THE SIDES AND TOE OF THE ENDWALL. EXACT PLACEMENT OF THE OUTFALL PIPE AND ENDWALL SHALL BE DETERMINED BY THE ENGINEER TO MATCH THE ELEVATIONS AND SLOPE OF SIDE SLOPE.

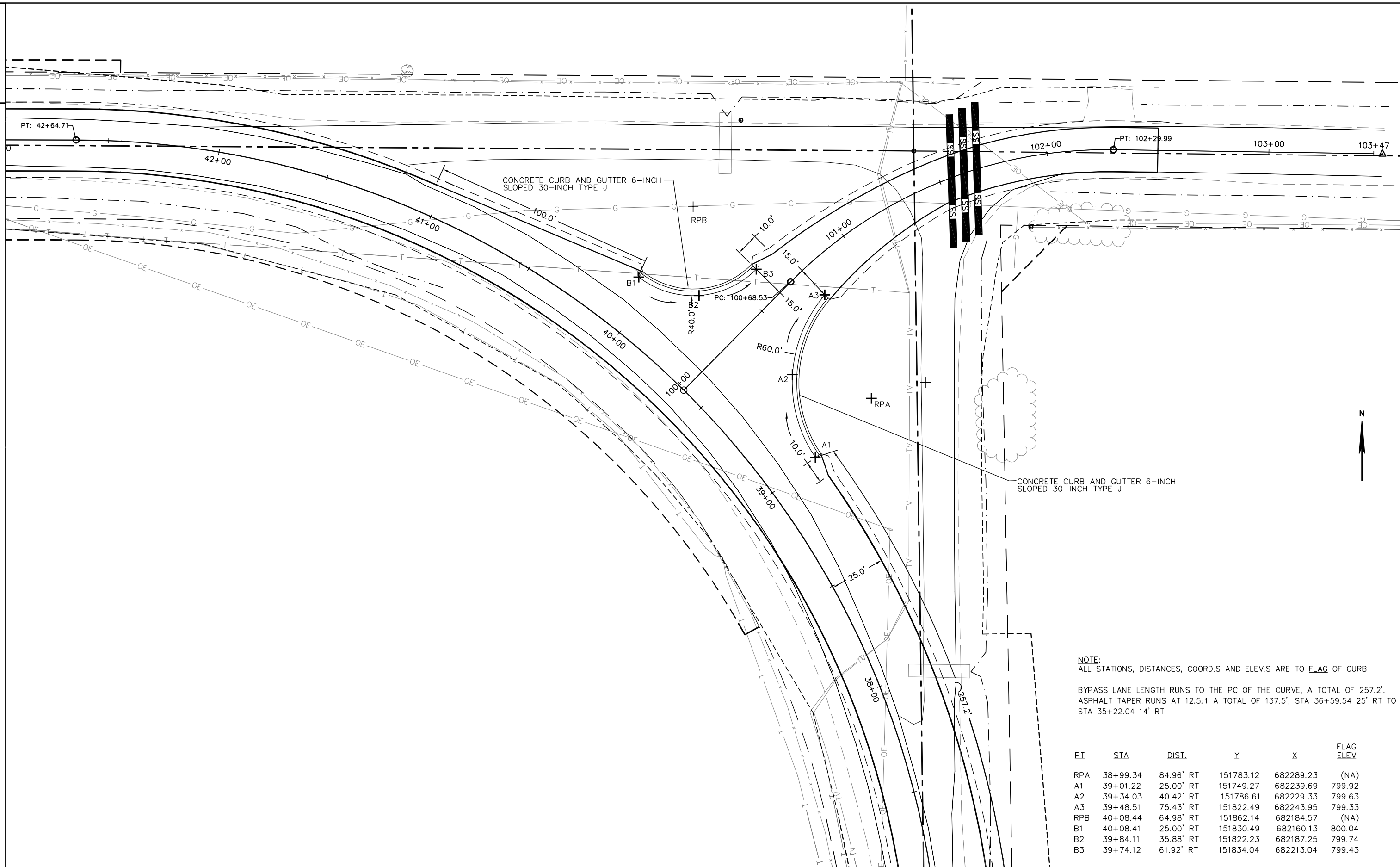
THE OUTFALL PIPE INCLUDING ALL FITTINGS AND THE RODENT SHIELD SHALL BE MEASURED AND PAID FOR AS CONCRETE MASONRY ENDWALL

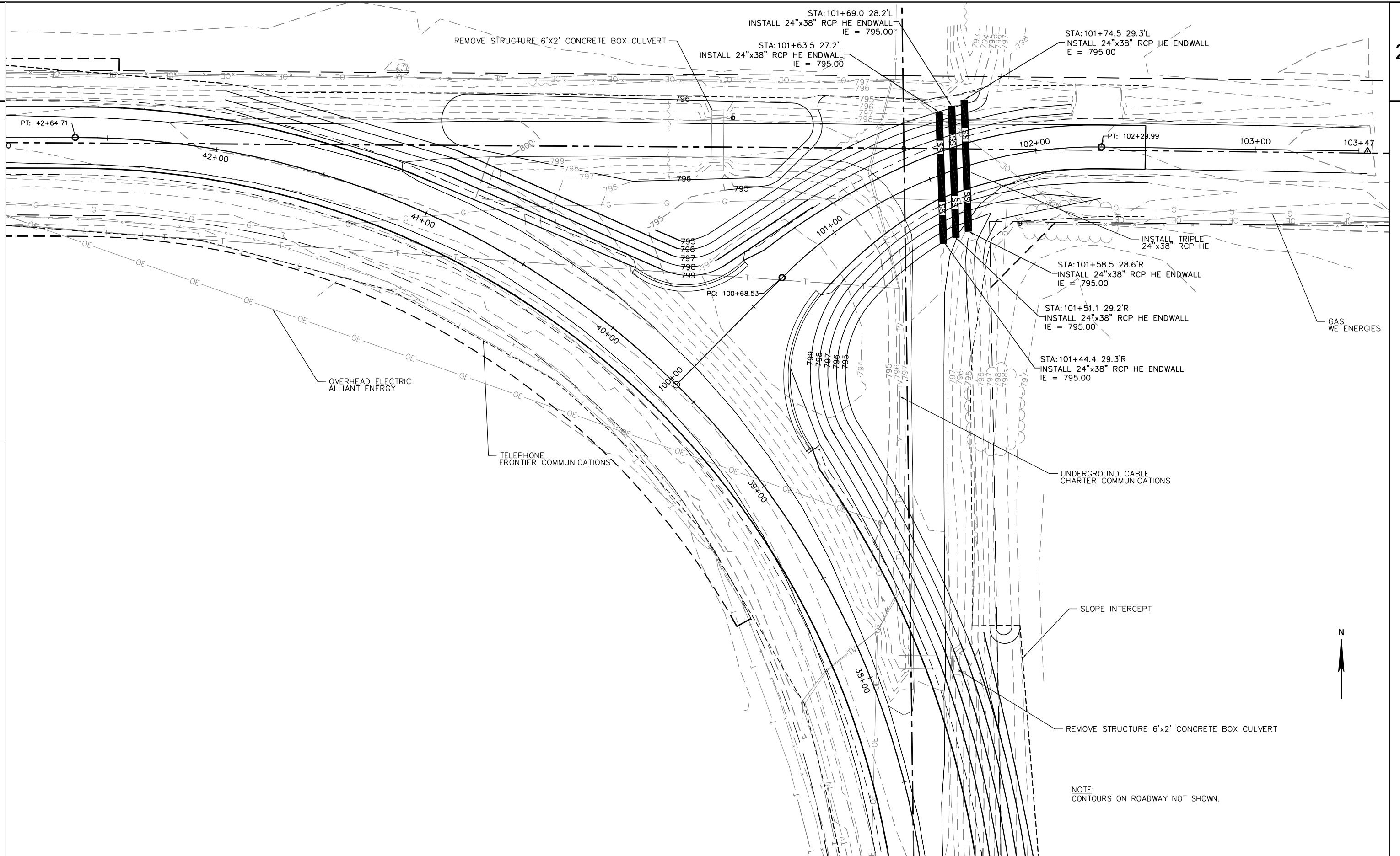
- ① THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL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



① RODENT SHIELD

*NOTE: DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.





PROJECT NO: 5605-00-70

HWY: CTH E

COUNTY: GREEN

INTERSECTION DETAIL - GRADING PLAN

SHEET

FILE NAME : I:\CLIENTS-MAD\B4893 BROADHEAD CITY OF\009 CTH E MCEWEN - ST JOHN\DWG\021000_CD_48930009 SJ.DWG

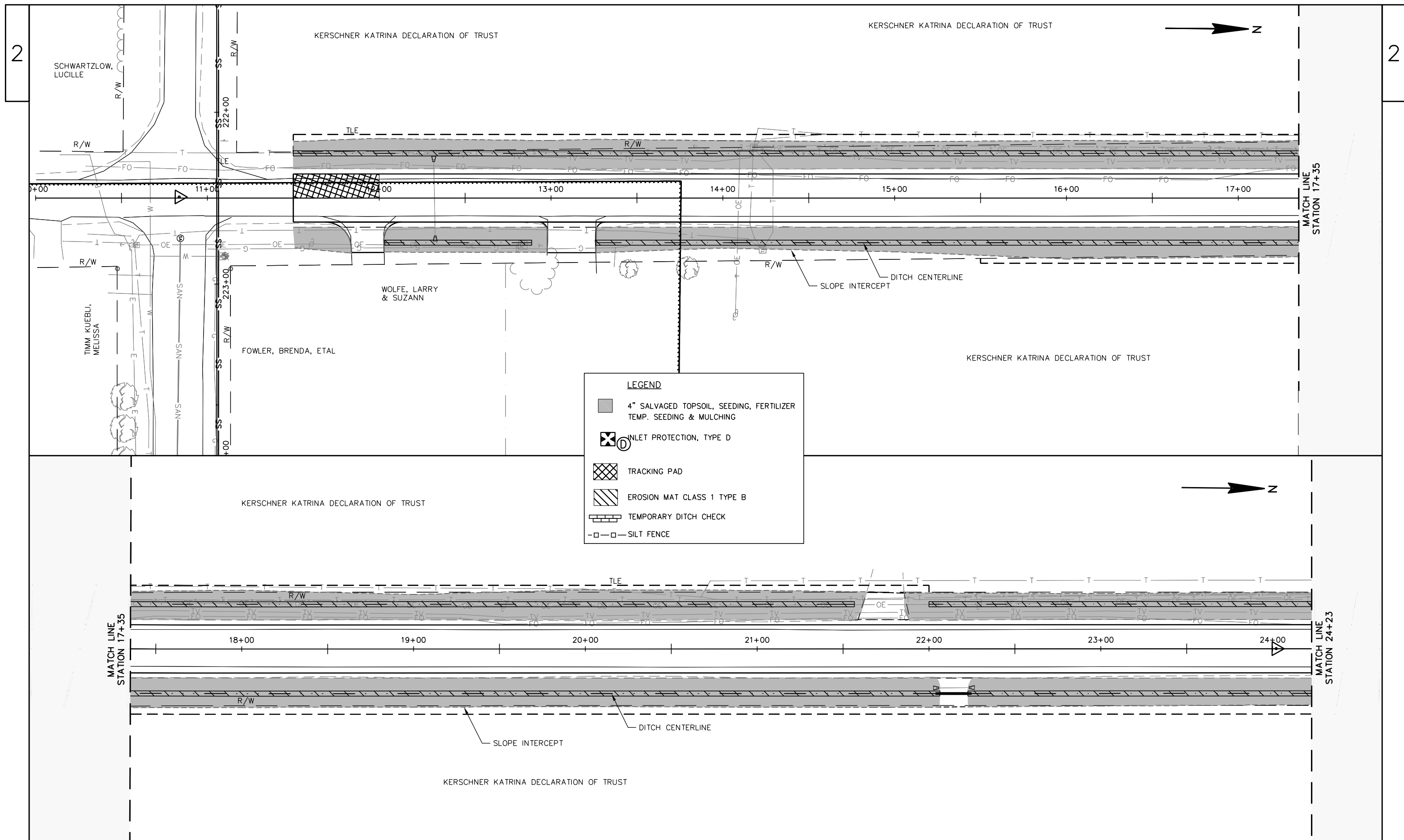
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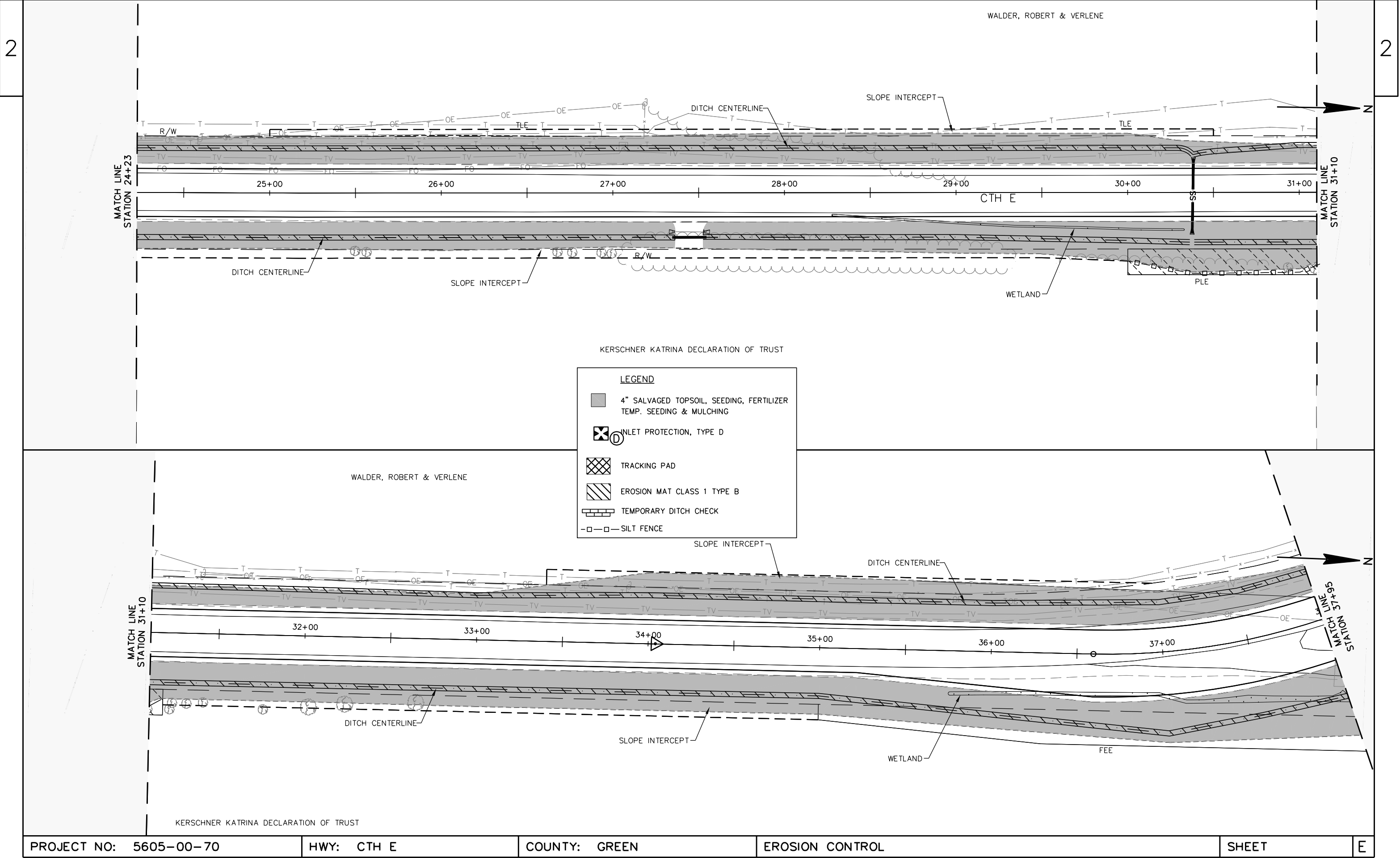
PLOT BY : JOE PINGEL

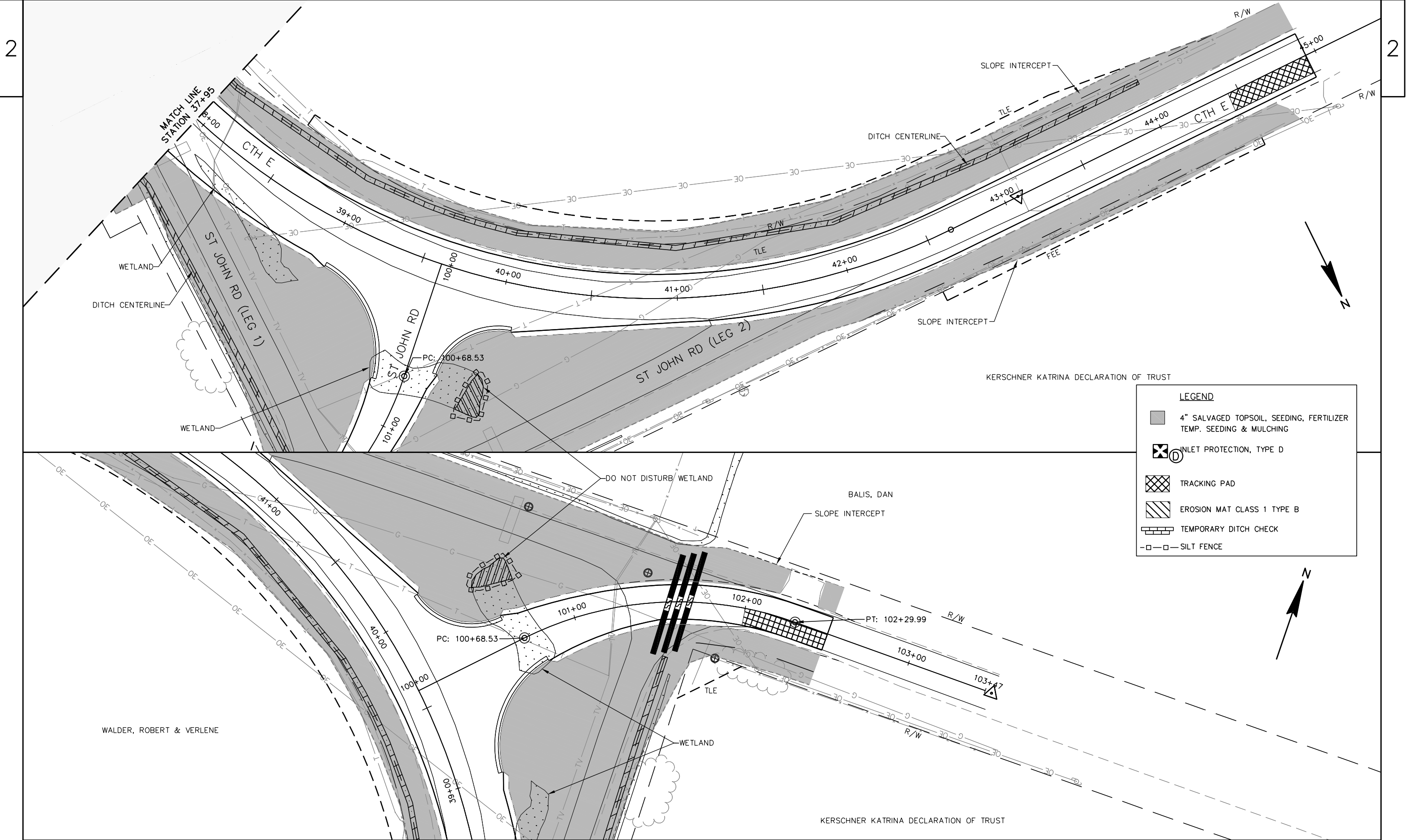
PLOT NAME :

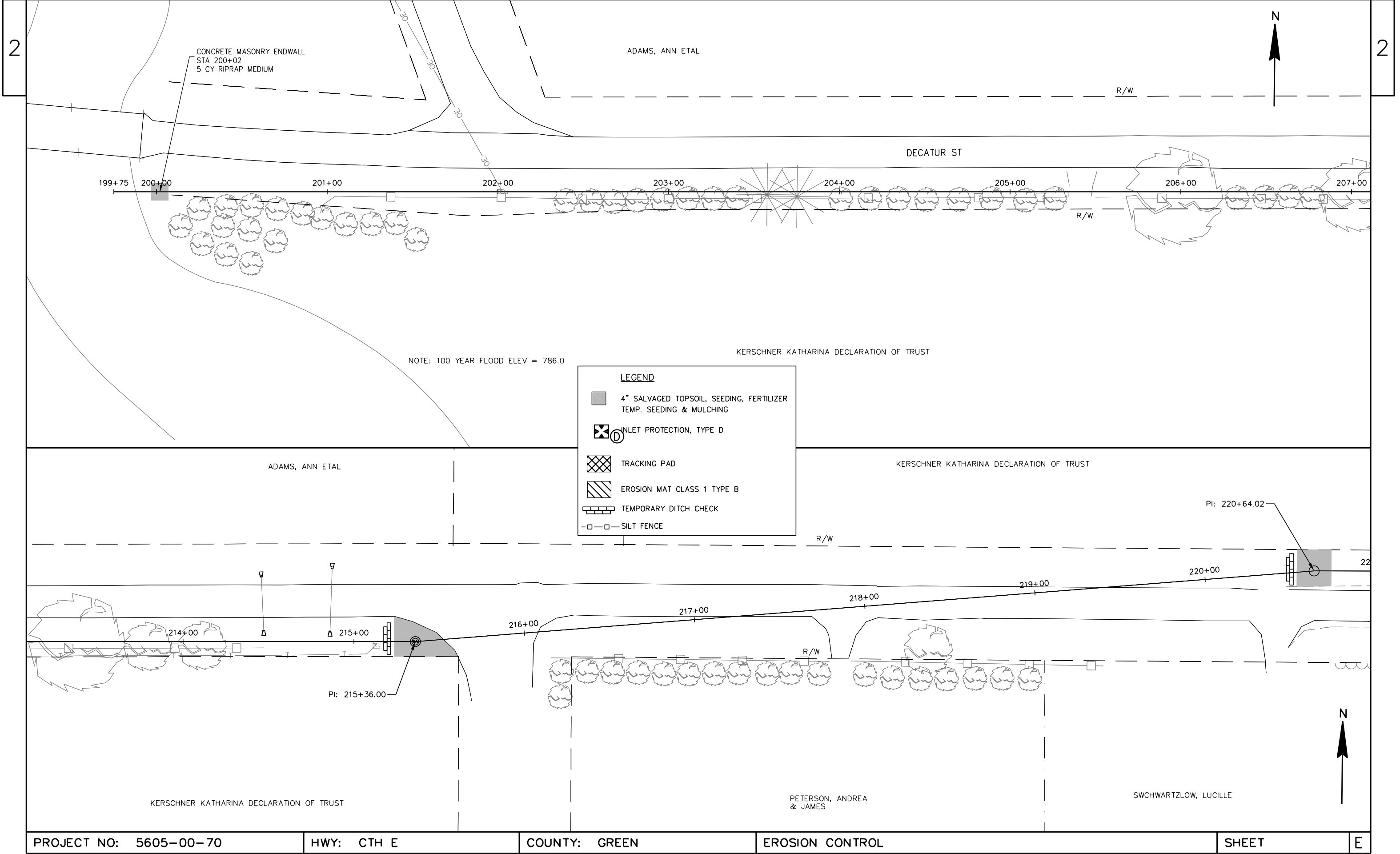
PLOT SCALE :

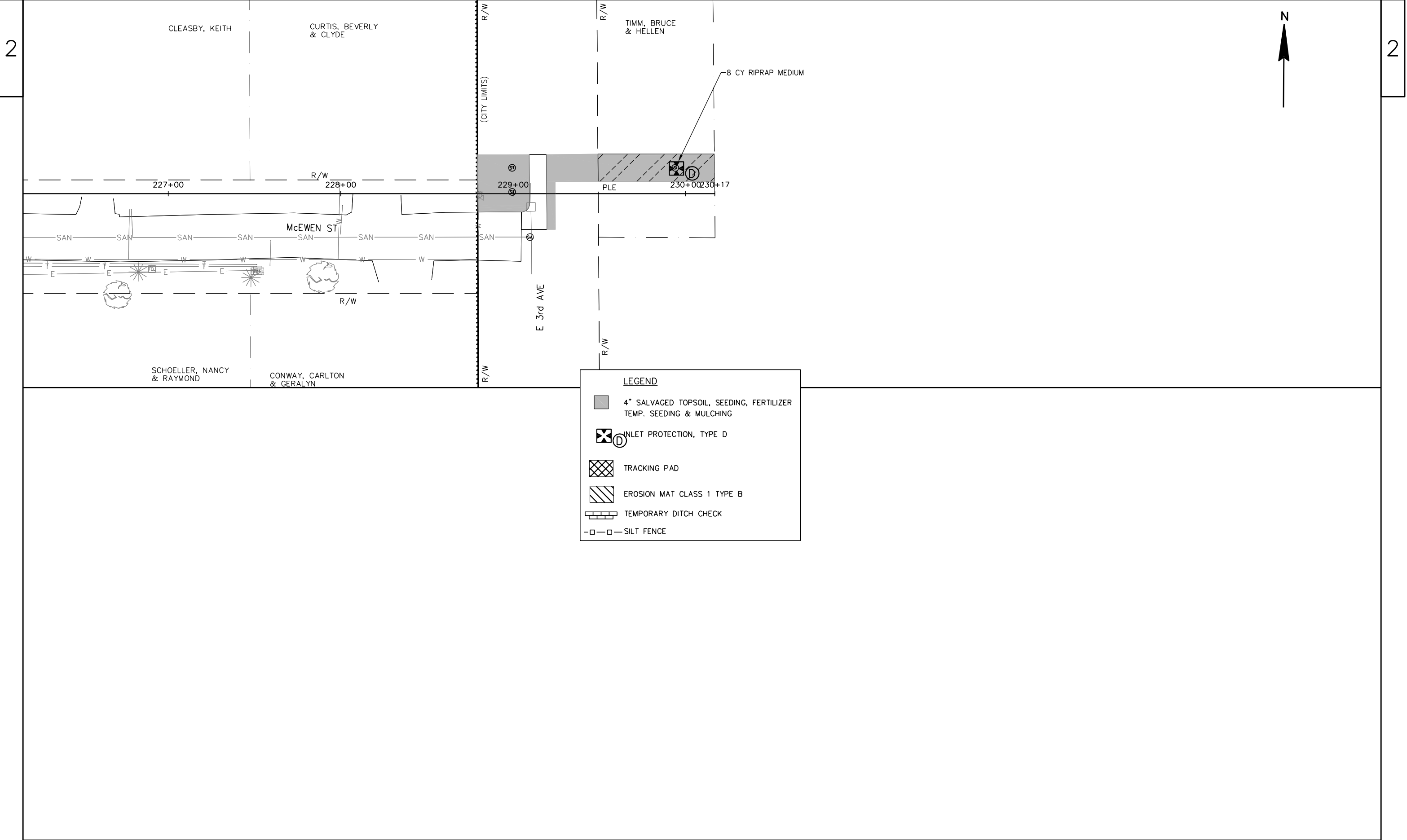
WISDOT/CADDS SHEET __

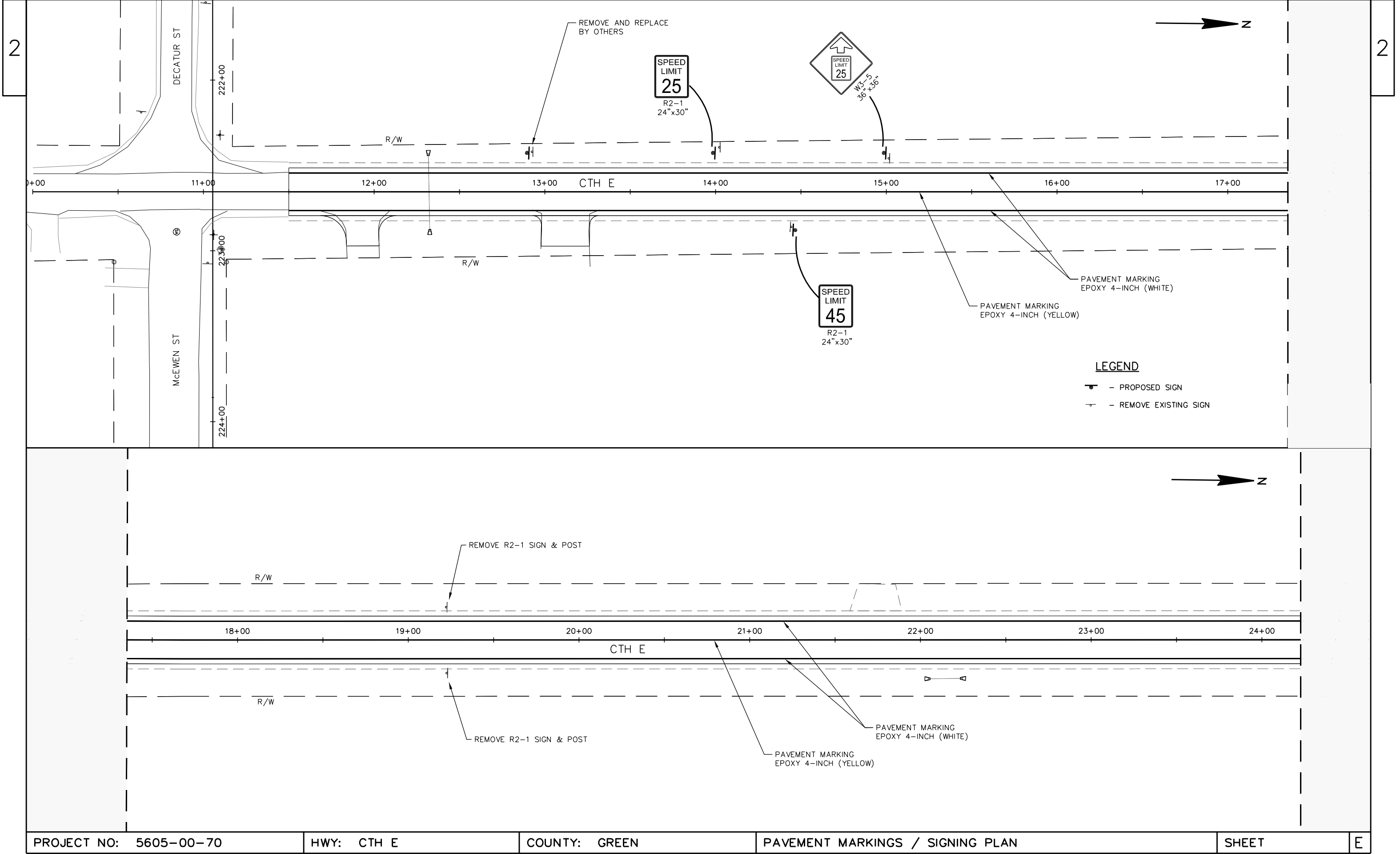


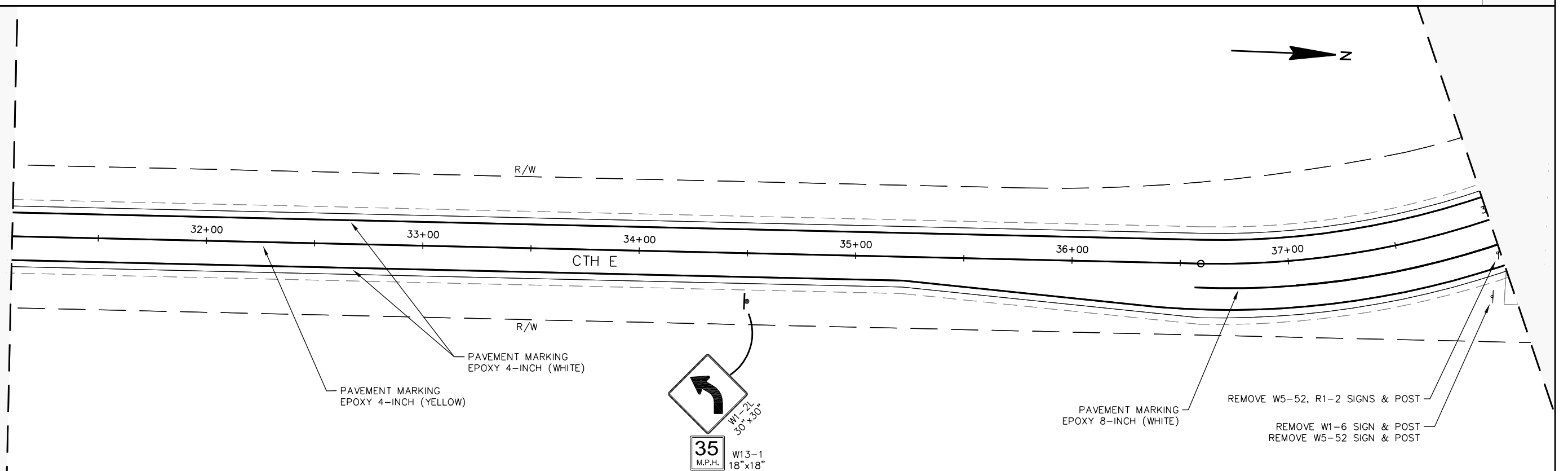
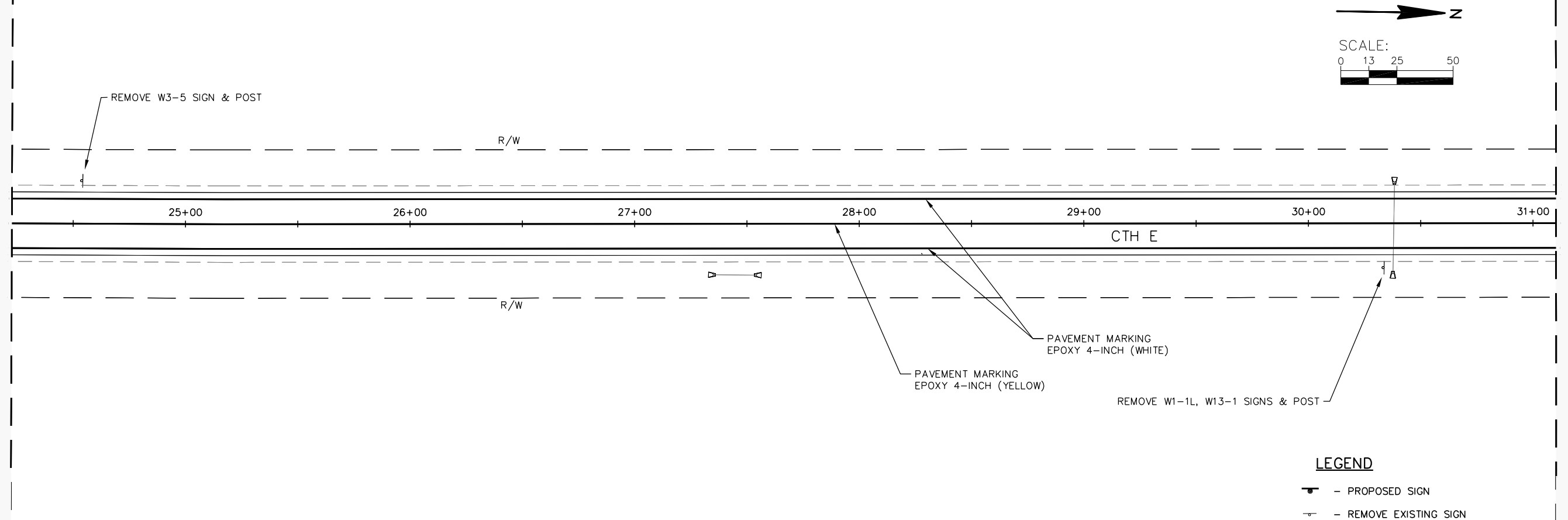


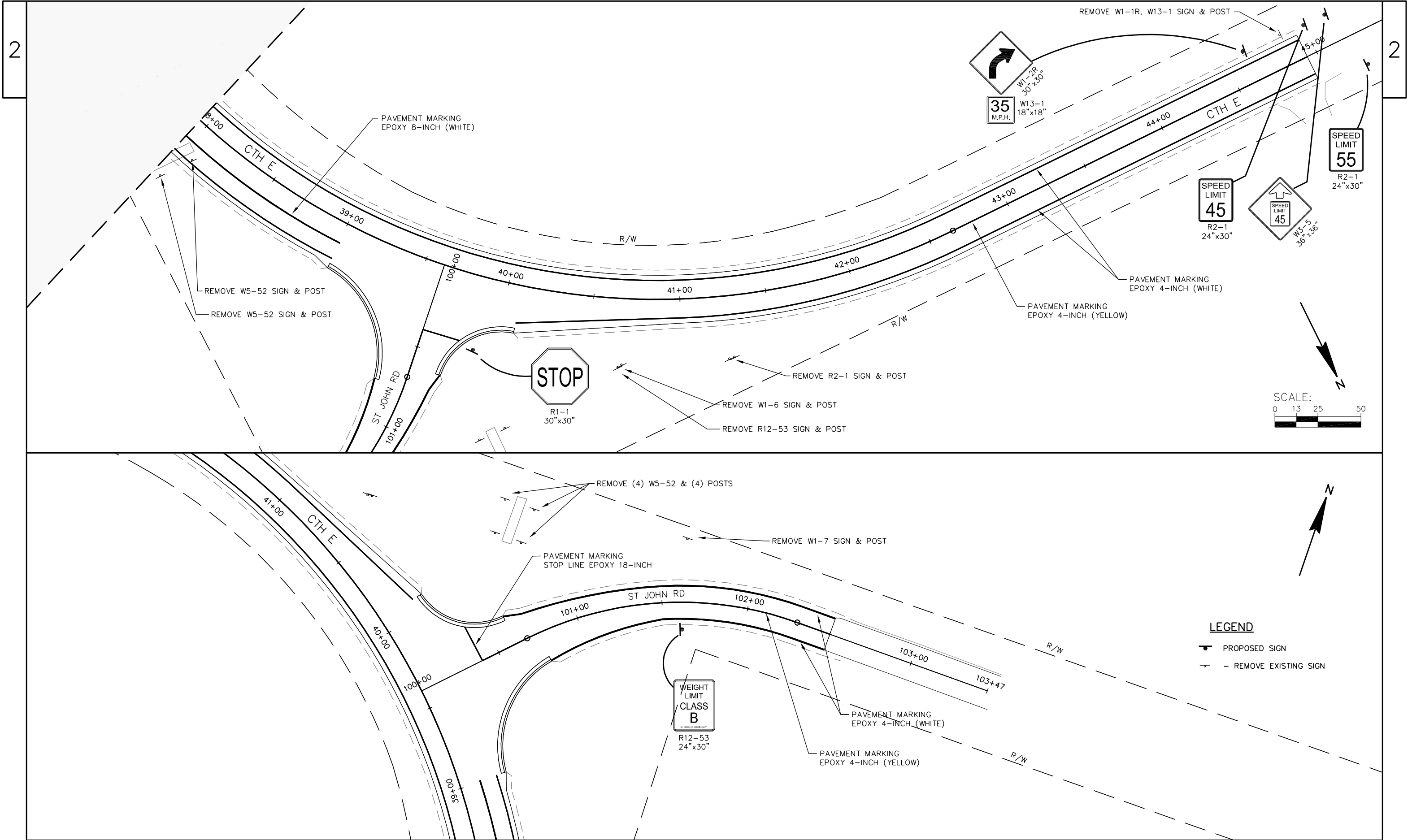


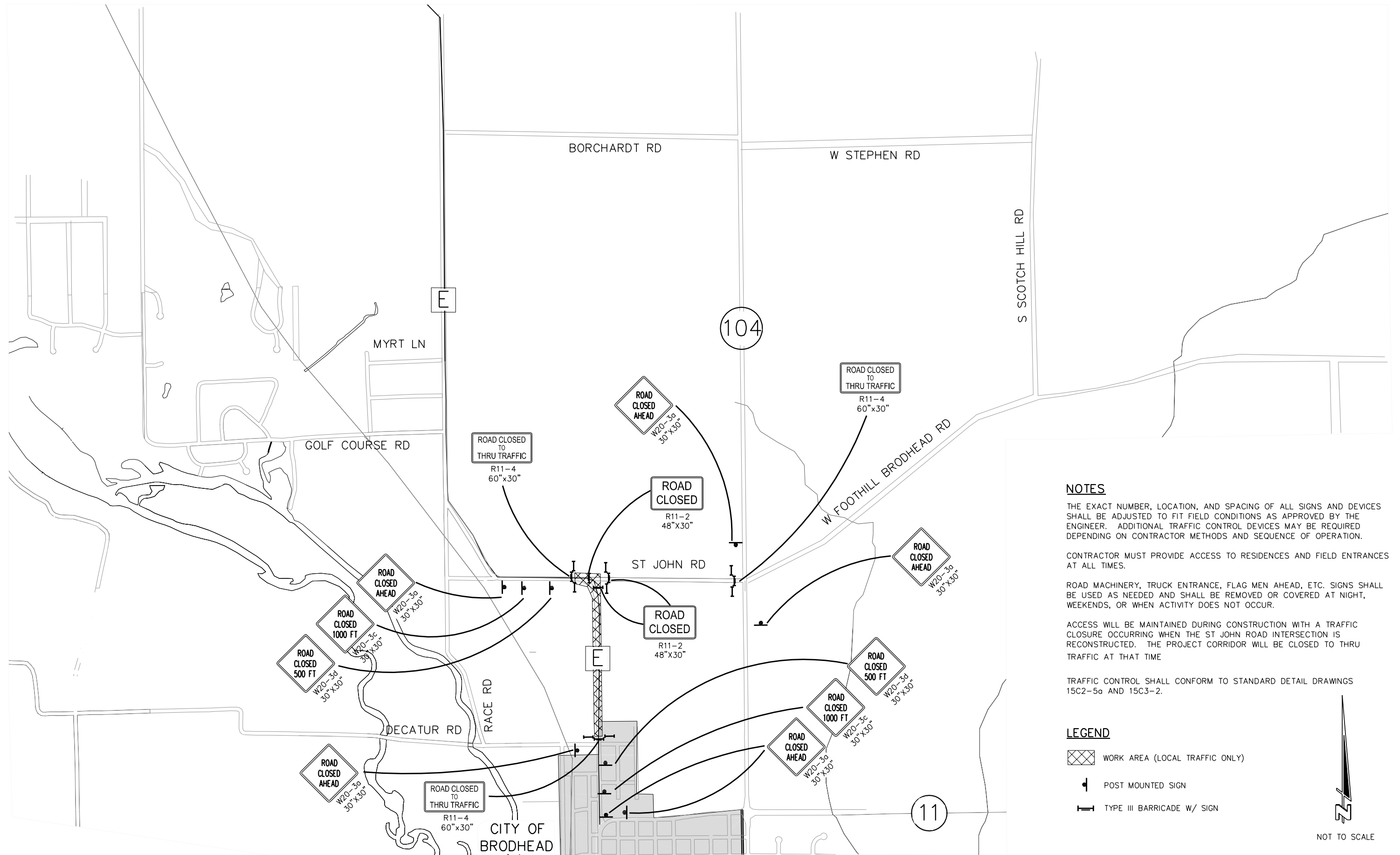










**NOTES**

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED DEPENDING ON CONTRACTOR METHODS AND SEQUENCE OF OPERATION.


CONTRACTOR MUST PROVIDE ACCESS TO RESIDENCES AND FIELD ENTRANCES AT ALL TIMES.

ROAD MACHINERY, TRUCK ENTRANCE, FLAG MEN AHEAD, ETC. SIGNS SHALL BE USED AS NEEDED AND SHALL BE REMOVED OR COVERED AT NIGHT, WEEKENDS, OR WHEN ACTIVITY DOES NOT OCCUR.

ACCESS WILL BE MAINTAINED DURING CONSTRUCTION WITH A TRAFFIC CLOSURE OCCURRING WHEN THE ST JOHN ROAD INTERSECTION IS RECONSTRUCTED. THE PROJECT CORRIDOR WILL BE CLOSED TO THRU TRAFFIC AT THAT TIME

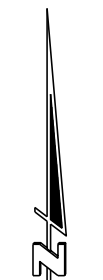
TRAFFIC CONTROL SHALL CONFORM TO STANDARD DETAIL DRAWINGS 15C2-5a AND 15C3-2.

LEGEND

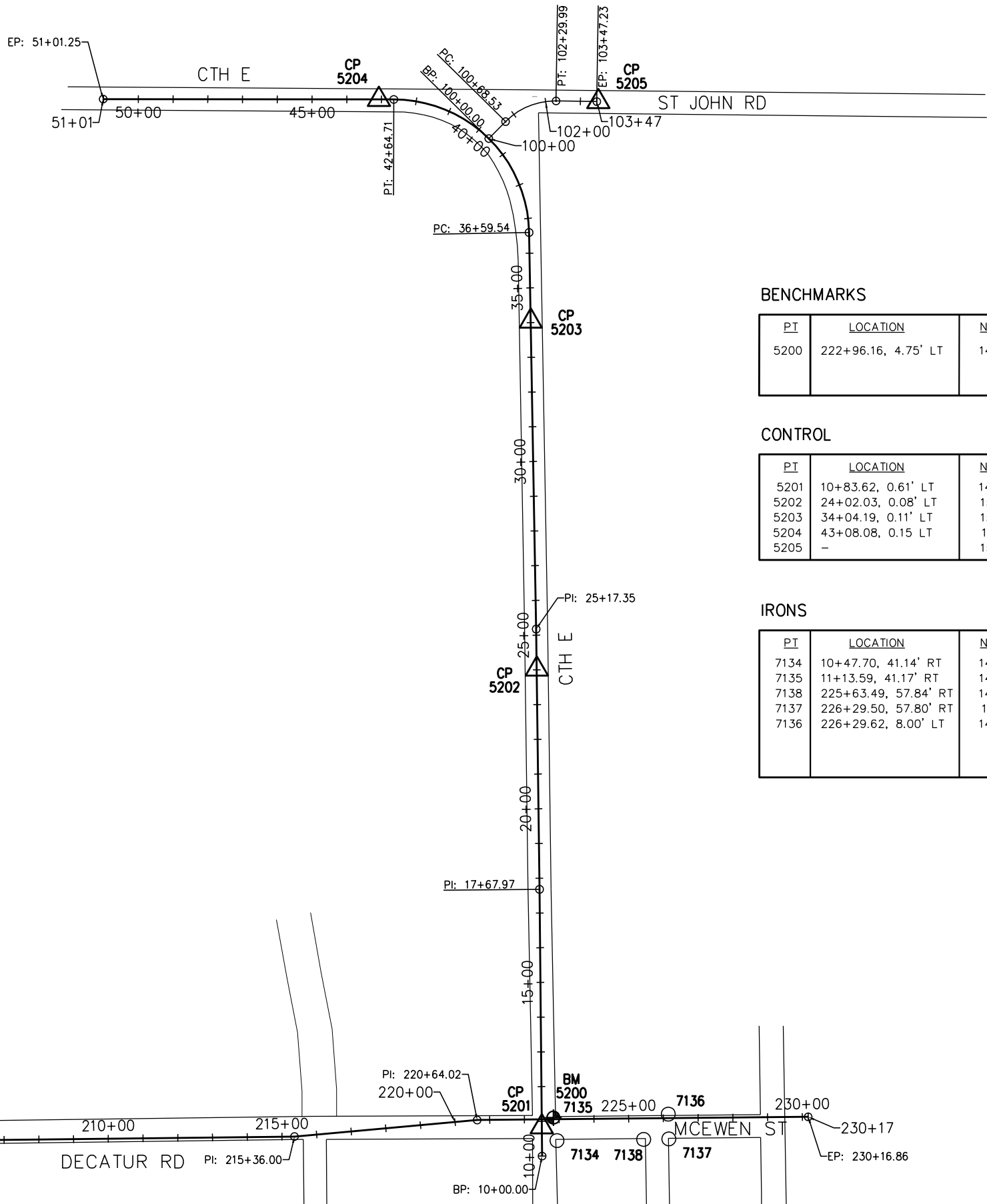
 WORK AREA (LOCAL TRAFFIC ONLY)

 POST MOUNTED SIGN

 TYPE III BARRICADE W/ SIGN



NOT TO SCALE



ST JOHN RD

DESCRIPTION	STATION	NORTHING	EASTING	BEARING
BEGIN ALIGNMENT	100+00.00	151776.541	682177.670	N 44-37-11 E
PI	101+58.25	151889.181	682288.524	
END ALIGNMENT	103+51.53	151886.088	682491.164	S 89-07-32 E

CTH E

DESCRIPTION	STATION	NORTHING	EASTING	BEARING
BEGIN ALIGNMENT	10+00.00	148849.955	682333.688	N 00-32-36 W
PI	17+67.97	149617.889	682326.405	
PI	25+17.35	150367.208	628316.604	N 00-44-58 W
PI	40+42.17	151891.784	682289.316	N 01-01-31 W
END ALIGNMENT	51+01.26	151893.211	681070.146	N 89-55-58 W

DECATUR RD

DESCRIPTION	STATION	NORTHING	EASTING	BEARING
BEGIN ALIGNMENT	199+75.00	148888.333	680060.046	N 89-20-39 E
PI	215+36.00	148906.203	6821620.957	
PI	220+64.02	148953.617	682146.834	N 84-50-54 E
END ALIGNMENT	230+25.00	148962.786	683092.246	N 89-26-40 E

BENCHMARKS

PT	LOCATION	NORTHING	EASTING	ELEV
5200	222+96.16, 4.75' LT	148960.49	682366.39	800.29

CONTROL

PT	LOCATION	NORTHING	EASTING	ELEV
5201	10+83.62, 0.61' LT	148933.57	682332.29	798.95
5202	24+02.03, 0.08' LT	150251.90	682318.03	799.14
5203	34+04.19, 0.11' LT	151253.90	682300.62	798.35
5204	43+08.08, 0.15 LT	151892.13	681863.32	799.03
5205	-	151885.87	682495.07	800.40

IRONS

PT	LOCATION	NORTHING	EASTING	ELEV
7134	10+47.70, 41.14' RT	148898.05	682374.37	798.05
7135	11+13.59, 41.17' RT	148963.93	682373.78	797.57
7138	225+63.49, 57.84' RT	148900.48	682631.32	795.60
7137	226+29.50, 57.80' RT	148901.15	682697.33	794.77
7136	226+29.62, 8.00' LT	148966.95	682696.81	795.22

DATE 23DEC15		E S T I M A T E O F Q U A N T I T I E S			
LINE					5605-00-70
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	201.0105	Clearing	STA	3.000	3.000
0020	201.0205	Grubbing	STA	3.000	3.000
0030	203.0100	Removing Small Pipe Culverts	EACH	3.000	3.000
0040	203.0200	Removing Old Structure (station) 01. 37+97 RT	LS	1.000	1.000
0050	203.0200	Removing Old Structure (station) 02. 100+87 LT	LS	1.000	1.000
0060	204.0115	Removing Asphaltic Surface Butt Joints	SY	125.000	125.000
0070	205.0100	Excavation Common	CY	9,279.000	9,279.000
0080	208.0100	Borrow	CY	676.000	676.000
0090	213.0100	Finishing Roadway (project) 01. 5605-00-70	EACH	1.000	1.000
0100	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	4,682.000	4,682.000
0110	312.0110	Select Crushed Material	TON	2,500.000	2,500.000
0120	325.0100	Pulverize and Relay	SY	5,256.000	5,256.000
0130	504.0900	Concrete Masonry Endwalls	CY	1.000	1.000
0140	521.0118	Culvert Pipe Corrugated Steel 18-Inch	LF	41.000	41.000
0150	521.1018	Apron Endwalls for Culvert Pipe Steel 18-Inch	EACH	4.000	4.000
0160	522.0118	Culvert Pipe Reinforced Concrete Class III 18-Inch	LF	44.000	44.000
0170	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	2.000	2.000
0180	523.0424	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 24x38-Inch	LF	144.000	144.000
0190	523.0524	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 24x38-Inch	EACH	6.000	6.000
0200	601.0415	Concrete Curb & Gutter 6-Inch Sloped 30-Inch Type J	LF	132.000	132.000
0210	606.0200	Riprap Medium	CY	5.000	5.000
0220	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	90.000	90.000
0230	611.0642	Inlet Covers Type MS	EACH	1.000	1.000
0240	611.3901	Inlets Median 1 Grate	EACH	1.000	1.000
0250	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	150.000	150.000
0260	619.1000	Mobilization	EACH	1.000	1.000
0270	623.0200	Dust Control Surface Treatment	SY	12,660.000	12,660.000
0280	624.0100	Water	MGAL	94.000	94.000
0290	625.0500	Salvaged Topsoil	SY	16,257.000	16,257.000
0300	627.0200	Mulching	SY	16,257.000	16,257.000
0310	628.1504	Silt Fence	LF	200.000	200.000
0320	628.1520	Silt Fence Maintenance	LF	200.000	200.000
0330	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0340	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0350	628.2004	Erosion Mat Class I Type B	SY	2,700.000	2,700.000
0360	628.7020	Inlet Protection Type D	EACH	1.000	1.000
0370	628.7504	Temporary Ditch Checks	LF	580.000	580.000
0380	628.7560	Tracking Pads	EACH	6.000	6.000
0390	629.0210	Fertilizer Type B	CWT	10.500	10.500
0400	630.0120	Seeding Mixture No. 20	LB	435.900	435.900
0410	630.0200	Seeding Temporary	LB	430.000	430.000
0420	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	10.000	10.000
0430	637.2210	Signs Type II Reflective H	SF	65.180	65.180
0440	638.2602	Removing Signs Type II	EACH	24.000	24.000

DATE 23DEC15		E S T I M A T E O F Q U A N T I T I E S			
LINE					5605-00-70
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0450	638.3000	Removing Small Sign Supports	EACH	21.000	21.000
0460	642.5001	Field Office Type B	EACH	1.000	1.000
0470	643.0100	Traffic Control (project) 01. 5605-00-70	EACH	1.000	1.000
0480	643.0420	Traffic Control Barricades Type III	DAY	1,950.000	1,950.000
0490	643.0705	Traffic Control Warning Lights Type A	DAY	3,900.000	3,900.000
0500	643.0900	Traffic Control Signs	DAY	2,210.000	2,210.000
0510	645.0120	Geotextile Fabric Type HR	SY	25.000	25.000
0520	645.0130	Geotextile Fabric Type R	SY	2,790.000	2,790.000
0530	646.0106	Pavement Marking Epoxy 4-Inch	LF	10,008.000	10,008.000
0540	646.0126	Pavement Marking Epoxy 8-Inch	LF	241.000	241.000
0550	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	30.000	30.000
0560	650.4000	Construction Staking Storm Sewer	EACH	2.000	2.000
0570	650.4500	Construction Staking Subgrade	LF	3,494.000	3,494.000
0580	650.5000	Construction Staking Base	LF	3,494.000	3,494.000
0590	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	132.000	132.000
0600	650.6000	Construction Staking Pipe Culverts	EACH	3.000	3.000
0610	650.9910	Construction Staking Supplemental Control (project) 01. 5605-00-70	LS	1.000	1.000
0620	650.9920	Construction Staking Slope Stakes	LF	3,494.000	3,494.000
0630	690.0150	Sawing Asphalt	LF	113.000	113.000
0640	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0650	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	175.000	175.000
0660	SPV.0060	Special 01. Utility Line Opening (ULO)	EACH	6.000	6.000
0670	SPV.0090	Special 01. Directional Drilled 6-inch Storm Forcemain	LF	2,897.000	2,897.000
0680	SPV.0105	Special 01. Storm Sewer Lift Station And Valve Vault	LS	1.000	1.000
0690	SPV.0105	Special 02. Air Releast Vault	LS	1.000	1.000
0700	SPV.0105	Special 03. Construction Staking Lift Station Air Release Vault and SS Forcemain	LS	1.000	1.000

CLEARING & GRUBBING

		201.0105	201.0205
		CLEARING	GRUBBING
STATION - STATION	LOCATION	STA.	STA.
27+00 - 29+00	CTH E	2	2
30+00 - 31+00	CTH E	1	1
TOTAL		3	3

EARTHWORK SUMMARY

		205.0100	EXPANDED		
		EXCAVATION		WASTE	208.0100
		COMMON	FILL		BORROW
LOCATION		CY	CY	CY	CY
CTH E		6953	1987	4966	--
ST JOHN RD		1140	845	294	676
EBS (UNDISTRIBUTED)		1186	--	--	--
TOTAL		9279	2832	5260	676

PULVERIZE AND RELAY

		325.0100
STATION - STATION	LOCATION	SY
12+00 - 33+50	CTH E	5256
TOTAL		5256

- NOTES: 1) 25% EXPANSION FACTOR APPLIED TO FILL
2) WASTE = EXCAVATION COMMON - EXPANDED FILL
3) BORROW TO BE USED ONLY IF EXCESS MATERIAL FROM PROJECT IS UNSUITABLE

REMOVING SMALL PIPE CULVERTS

		203.0100	
STATION	LOCATION	EACH	DESCRIPTION
22+14	CTH E, RT	1	12" Culvert
27+45	CTH E, RT	1	12" Culvert
30+38	CTH E	1	12" Culvert
TOTAL		3	

UTILITY LINE OPENING (ULO)

		SPV.0060.01
STATION - STATION	LOCATION	EACH
UNDISTRIBUTED	MCEWEN	2
UNDISTRIBUTED	CTH E	4
TOTAL		6

BASE AGGREGATE DENSE

		305.0120	312.0110
		BASE AGGREGATE DENSE	SELECT CRUSHED
		1 1/4 - INCH	MATERIAL
STATION - STATION	LOCATION	TON	TON
11+50 - 44+94	UNDISTRIBUTED	--	2500
33+50 - 43+94	CTH E	4030	--
100+22 - 102+50	ST JOHN RD	620	--
229+04 - 229+20	DECATUR	32	--
TOTAL		4682	2500

REMOVING OLD STRUCTURE

		203.0200	
STATION	LOCATION	EACH	DESCRIPTION
37+97	CTH E, RT	1	6'x2' Concrete Box
100+87	ST JOHH, LT	1	6'x2' Concrete Box
TOTAL		2	

REMOVING ASPHALTIC SURFACE BUTT JOINTS

		204.0105	
STATION - STATION	LOCATION	SY	COMMENTS
11+50 - 12+00	CTH E	125	
TOTAL		125	

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED.

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.		STORM SEWER PIPE & STRUCTURES															
		521.0118		523.0424		523.0524											
		608.0312	CULVERT PIPE	522.0118	CULVERT PIPE	APRON ENDWALL FOR	521.1018	522.2018	611.3901	611.0639							
		REINFORCED	CORREGATED	CULVERT PIPE	REINFORCED CONCRETE	REINFORCED CONCRETE	APRON ENDWALL	APRON ENDWALL FOR	INLET	INLET							
		CONCRETE	STEEL 18-INCH	REINFORCED CONCRETE	HORIZONTAL ELLIPTICAL	HORIZONTAL ELLIPTICAL	FOR CULVERT PIPE	CULVERT PIPE REINFORCED	MEDIAN	COVER							
		CLASS III 12-INCH	(0.064 THICK)	CLASS III 18-INCH	CLASS IV 24-INCHx38-INCH	CLASS IV 24-INCHx38-INCH	STEEL 18-INCH	CONCRETE 18-INCH	GRATE 1	TYPE MS	UPSTREAM						
STATION - STATION	LOCATION	LF	LF	LF	LF	LF	EACH	EACH	EACH	EACH	INVERT ELEV.						
22+04 - 22+25	26' RT	--	21	--	--	--	2	--	--	--	796.72						
27+34 - 27+55	26' RT	--	20	--	--	--	2	--	--	--	796.59						
30+38	20' LT - 24' RT	--	--	44	--	--	--	2	--	--	795.30						
101+52 - 101+72	33' RT - 32' LT	--	--	--	48	2	--	--	--	--	795.00						
101+52 - 101+72	33' RT - 32' LT	--	--	--	48	2	--	--	--	--	795.00						
101+52 - 101+72	33' RT - 32' LT	--	--	--	48	2	--	--	--	--	795.00						
228+99.4 - 229+94	15' LT	90	--	--	--	--	--	--	--	--	785.50						
229+94	15' LT	--	--	--	--	--	--	--	1	1	--						
TOTAL		90	41	44	144	6	4	2	1	1							
RESTORATION ITEMS																	
		625.0500	629.021	630.0120	630.0200	628.1520	628.7504	628.2004		606.02	628.1905	628.1910					
		SALVAGED	627.0200	FERTILIZER	SEEDING MIXTURE	SEEDING	628.1504	SILT FENCE	TEMPORARY	EROSION MAT	628.7560	RIPRAP	MOBILIZATIONS	MOBILIZATION EMERGENCY			
		TOPSOIL	MULCHING	TYPE B	NO. 20	TEMPORARY	SILT FENCE	MAINTENANCE	DITCH CHECKS	CLASS I TYPE B	TRACKING PADS	MEDIUM	EROSION CONTROL	EROSION CONTROL			
STATION - STATION	LOCATION	SY	SY	CWT	LB	LB	LF	LF	LF	SY	EACH	CY	EACH	EACH			
11+50 - 43+94	CTH E	11915	11915	7.50	321.0	321	--	--	--	2200	--	--	--	--			
30+00 - 31+18	CTH E	--	--	--	--	--	120	120	--	--	--	--	--	--			
100+52 - 100+90	ST JOHN RD	--	--	--	--	--	80	80	--	--	--	--	--	--			
100+33 - 102+50	ST JOHN RD	3670	3670	2.30	99.0	99	--	--	--	--	--	--	--	--			
228+95 - 230+25	McEWEN	350	350	0.20	10.0	10	--	--	--	--	--	--	--	--			
200+02	DECATUR	11	11	--	0.3	--	--	--	--	--	--	5	--	--			
215+19	DECATUR	63	63	--	1.1	--	--	--	20	--	--	--	--	--			
220+50	DECATUR	48	48	--	0.9	--	--	--	20	--	--	--	--	--			
UNDISTRIBUTED	DECATUR	200	200	0.50	3.6	--	--	--	40	--	3	--	1	2			
UNDISTRIBUTED	CTH E	--	--	--	--	--	--	--	500	500	3	--	1	2			
TOTAL		16257	16257	10.50	435.9	430	200	200	580	2700	6	5	2	4			
CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J													DUST CONTROL				
		601.0415											623.0200	624.0100			
STATION - STATION		LOCATION		LF									SURFACE TREATMENT		WATER		
100+20 - 100+74		66' RT - 18' RT		78									SY		MGAL		
100+22 - 100+59		50' LT - 18' LT		54									11+50 - 43+94		CTH E	12660	94
TOTAL				132									TOTAL		12660	94	
PROJECT NO: 5605-00-70		HWY: CTH E			COUNTY: GREEN				MISCELLANEOUS QUANTITIES				SHEET		E		

REMOVING SIGNS & SIGN SUPPORTS

STATION	LOCATION	SIGN CODE	638.2602	638.3000
			REMOVING SIGNS	REMOVING SMALL
			TYPE II	SIGN SUPPORTS
			EACH	EACH
14+02	LT	R2-1	1	1
14+44	RT	R2-1	1	1
15+02	LT	W3-5	1	1
19+22	LT	R2-1	1	1
19+23	RT	R2-1	1	1
24+54	LT	W3-5	1	1
30+35	RT	W1-1, W13-1	2	1
37+86	RT	W1-6, W5-52	2	2
37+94	RT	R1-2, W5-52	2	1
38+00	RT	W5-52	1	1
38+07	RT	W5-52	1	1
39+65	RT	W1-7	1	1
40+03	RT	W5-52	1	1
40+12	RT	W5-52	1	1
40+14	RT	W5-52	1	1
40+24	RT	W5-52	1	1
40+66	RT	R12-53	1	1
40+67	RT	W1-6	1	1
41+25	RT	R2-1	1	1
50+00	LT	W1-1, W13-1	2	1
TOTAL			24	21

SIGNS

STATION	LOCATION	SIGN CODE	637.2210	634.0614	COMMENT
			SIGNS TYPE II	POSTS WOOD	
			REFLECTIVE H	4X6 INCH X 14-FT	
			SF	EACH	
14+02	LT	R2-1	5.00	1	25 MPH
14+44	RT	R2-1	5.00	1	45 MPH
15+02	LT	W3-5	9.00	1	25 MPH
34+50	RT	W1-2L	6.25	1	--
34+50	RT	W13-1	2.25	--	35 MPH
44+60	LT	W1-2R	6.25	1	--
44+60	LT	W13-1	2.25	--	35 MPH
50+00	RT	R2-1	5.00	1	55 MPH
50+00	LT	R2-1	5.00	1	45 MPH
51+00	LT	W3-5	9.00	1	45 MPH
100+22	LT	R1-1	5.18	1	--
101+50	RT	R12-53	5.00	1	--
TOTAL			65.18	10	

SAWING ASPHALT

		690.0150
STATION - STATION	LOCATION	LF
11+50	CTH E	22
11+93	DRIVEWAY, RT	19
13+14	DRIVEWAY, RT	28
43+94	CTH E	22
102+50	ST JOHN RD	22
TOTAL		113

GEOTEXTILE FABRIC

STATION	LOCATION	645.0130	645.0140
		GEOTEXTILE	GEOTEXTILE
		FABRIC TYPE R	FABRIC TYPE HR
		SY	SY
200+02	CL	-	3
229+94	RT	-	22
EBS (UNDISTRIBUTED)	CTH E	2790	
TOTAL		2790	25

TRAFFIC CONTROL

LOCATION	643.0420	643.0705	643.0900	643.0100
	TRAFFIC CONTROL	TRAFFIC CONTROL	TRAFFIC CONTROL	TRAFFIC CONTROL
	BARRICADES	WARNING LIGHTS	SIGNS	5605-00-70
	TYPE III	TYPE A		
	DAY	DAY	DAY	EACH
5605-00-70	1950	3900	2210	1
TOTAL				
	1950	3900	2210	1

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UNLESS OTHERWISE NOTED.

CONSTRUCTION STAKING									
STATION - STATION	LOCATION	650.4000	650.4500	650.5000	650.5500	650.6000	SPV.0105.03	650.9910	650.9920
		STORM SEWER	SUBGRADE	BASE	CURB GUTTER AND	PIPE	CONSTRUCTION STAKING LIFT STATION, AIR	SUPPLEMENTAL	SLOPE STAKES
		EACH	LF	LF	LF	EACH	RELEASE VAULT AND STORM SEWER FORCE MAIN	CONTROL	LF
11+50 - 43+94	CTH E	--	3244	3244	--	3	--	1	3244
100+00 - 102+50	ST JOHN RD	--	250	250	132	--	--	--	250
2002+02 - 230+09	DECATUR / McEWEN	2	--	--	--	--	1	--	--
TOTAL		2	3494	3494	132	3	1	1	3494

PAVEMENT MARKING						
STATION - STATION	LOCATION	646.0106		646.0566	646.0126	COMMENTS
		EPOXY 4-INCH		STOP LINE	EPOXY	
		WHITE	YELLOW	EPOXY 18-INCH	8-INCH	
		LF	LF	LF	LF	
11+50 - 27+00	CL	--	388	--	--	NORTH/SOUTH PASSING
27+00 - 36+50	CL	--	1188	--	--	NORTH NO PASSING/SOUTH PASSING
36+50 - 43+94	CL	--	1488	--	--	NO PASSING
36+60 - 39+01	RT	--	--	--	241	--
11+50 - 43+94	RT	3244	--	--	--	EDGE LINE
11+50 - 43+94	LT	3244	--	--	--	EDGE LINE
100+22 - 102+50	CL	--	456	--	--	NO PASSING
100+22	LT	--	--	30	--	--
SUBTOTAL		6488	3520	--		
TOTAL		10008		30	241	

STORM SEWER FORCEMAIN						
STATION - STATION	LOCATION	SPV.0105.01	504.0900	612.0400	LF	LF
		STORM SEWER	CONCRETE	PIPE UNDERDRAIN		
		LIFT STATION	MASONRY	DIRECTIONAL DRILLED		
		AND VALVE VAULT	ENDWALL	6-INCH STORM FORCEMAIN		
PROJECT	DECATUR / McEWEN	1	1	--	--	--
200+02	DECATUR / McEWEN	--	--	1	--	--
200+02 - 229+00	DECATUR / McEWEN	--	--	--	2897	--
228+95	LT	--	--	--	--	15
228+95 -230+10	LT	--	--	--	--	110
229+00	LT	--	--	--	--	25
TOTAL		1	1	1	2897	150

INLET PROTECTION TYPE D		
STATION	LOCATION	628.7020
		EA
229+94	15' LT	1
TOTAL		1

ALL ITEMS ARE CATEGORY 0010
UNLESS OTHERWISE NOTED.

CONVENTIONAL SYMBOLS

SECTION LINE	----	COMBUSTIBLE FLUIDS (UNDER PRESSURE)	
1/4 LINE	----	UTILITIES	
COUNTY LINE	----	SANITARY SEWER	SAN
CORPORATE LIMITS	----	GAS	GAS
PROPERTY LINE	----	UNDERGROUND ELECTRIC	E
SIXTEENTH LINE	----	TELEPHONE	TEL
TOWN OR RANGE LINE	----	FIBER OPTIC	FO
TEMPORARY LIMITED EASEMENT	----	OVERHEAD UTILITIES	OE
PERMANENT LIMITED EASEMENT	----	TELEPHONE PEDESTAL	(COMPENSABLE)
EXISTING RIGHT OF WAY	----	POWER POLE	(COMPENSABLE)
EXISTING EASEMENT	----	SANITARY MANHOLE	(SAH)
NEW RIGHT OF WAY	----	RIGHT-OF-WAY MARKERS	
EXISTING FENCE	----	SECTION CORNER	
REFERENCE LINE	----	FEE	
SLOPE INTERCEPT	----	PERMANENT LIMITED EASEMENT	
TREE	----	TEMPORARY LIMITED EASEMENT	
TREELINE	----		
MARSH	----		
SECTION MONUMENT	----		
IRON PIPE	----		
REBAR	----		
SIGN	----		

CONVENTIONAL ABBREVIATIONS

AC	ACRES	PI	POINT OF INTERSECTION
CL	CENTERLINE	PT	POINT OF TANGENCY
CTH	COUNTY TRUNK HIGHWAY	PL	PROPERTY LINE
D	DEGREE OF CURVATURE	MI	MILE
DOC	DOCUMENT	R	RADIUS / RANGE
E	EAST	R/L	REFERENCE LINE
H	HOUSE	R/W	RIGHT OF WAY
IP	IRON PIPE	SEC	SECTION
L	LENGTH OF CURVE	S	SOUTH
LCB	LONG CHORD	SE	SOUTHEAST
LCB	LONG CORD BEARING	SW	SOUTHWEST
MON	MONUMENT	STH	STATE TRUNK HIGHWAY
N	NORTH	STA	STATION
NE	NORTHEAST	T	TANGENT / TOWNSHIP
NO	NUMBER	USH	UNITED STATES HIGHWAY
NW	NORTHWEST	V	VOLUME
P	PAGE	PLE	PERMANENT LIMITED EASEMENT
PC	POINT OF CURVATURE	TLE	TEMPORARY LIMITED EASEMENT
		W	WEST

R/W PROJECT NUMBER	5605-00-01	SHEET NUMBER	4.01	TOTAL NUMBER	5
FEDERAL PROJECT NUMBER					
PLAT OF RIGHT OF WAY REQUIRED FOR					
BRODHEAD - ALBANY (McEWEN STREET TO ST JOHN ROAD)					
CTH E			GREEN COUNTY		
CONSTRUCTION PROJECT NUMBER			5605-00-70		

**BEGIN RELOCATION ORDER -
SEGMENT 1**
STA 10+00.00
2243.30 FEET NORTH AND 22.32 FEET WEST
OF THE SOUTH 1/4 CORNER OF SEC. 24, T2N, R9E

**END RELOCATION ORDER -
SEGMENT 1**
STA 45+00.00
5.21 FEET NORTH AND 612.59 FEET
WEST OF THE NORTH 1/4 CORNER OF
SEC. 24, T2N, R9E

**END RELOCATION ORDER -
SEGMENT 2**
STA 230+50.00
2356.37 FEET NORTH AND 761.23 FEET
EAST OF THE SOUTH 1/4 CORNER OF
SEC. 24, T2N, R9E

**BEGIN RELOCATION ORDER -
SEGMENT 2**
STA 229+00.00
2354.91 FEET NORTH AND 611.24 FEET EAST
OF THE SOUTH 1/4 CORNER OF SEC. 24, T2N, R9E

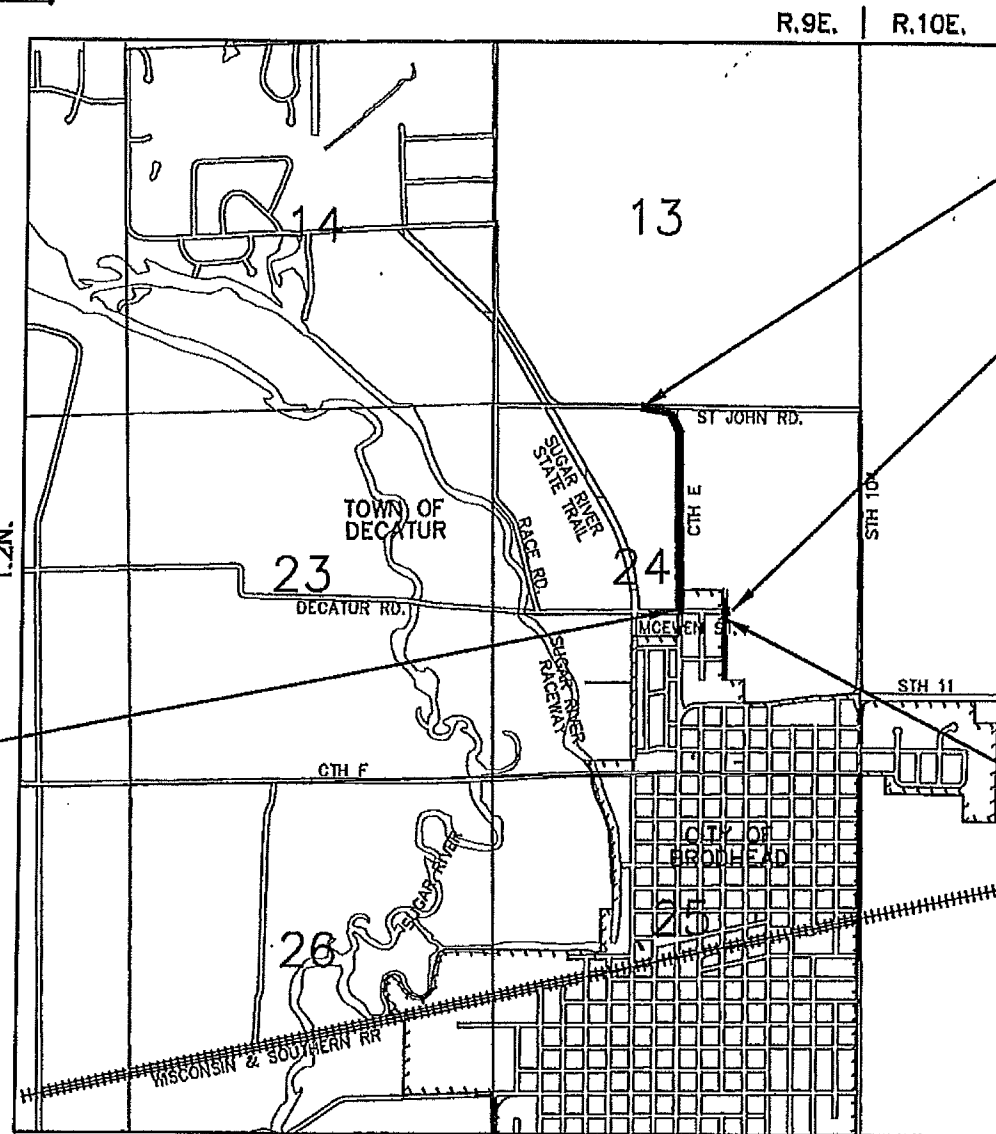
NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY
COORDINATES, GREEN COUNTY, NAD 83 (1991) IN US SURVEY FEET.
VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID
DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 MONUMENTS (3/4-INCH x
24-INCH REBAR), AND WILL BE PLACED PRIOR TO COMPLETION OF
THE PROJECT.

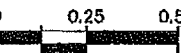
RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE
PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC
LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

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



GREEN COUNTY

SCALE, MILE:



TOTAL NET LENGTH OF CENTERLINE = 0.691 MI.

REVISION DATE:

5/26/15

APPROVED FOR GREEN COUNTY
10/22/2014 <i>Jeff W. Marshall</i> DATE HIGHWAY COMMISSIONER
ORIGINAL PLAT PREPARED BY
Cedar corporation 604 Wilson Avenue Menomonie, Wisconsin 54751 715-235-9091 800-472-7372 FAX 715-235-2727 www.cedarcorp.com
WISCONSIN BRYON J. MOTSZKO S-2846 MENOMONIE WI LAND SURVEYOR
12/18/14 <i>Bryon J. Motzko</i> DATE (Signature)

E

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE COUNTY.

PARCEL NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED	R/W AREA REQUIRED			TLE AREA (ACRES)	PLE AREA (ACRES)
				NEW	EXIST.	TOTAL		
1	4.03, .04 & .05	KERSCHNER FARMS LLC	FEE / PLE / TLE	0.14	0.30	0.44	0.43	0.04
2	4.03	BRUCE W. & HELEN TIMM	PLE	–	–	–	–	0.04
3	4.04 & 4.05	VERLENE K. WALDER	TLE	–	–	–	0.22	–
50	4.03, .04 & .05	FRONTIER COMMUNICATIONS	TEMPORARY RELEASE OF RIGHTS					
51	4.04 & .05	WISCONSIN POWER AND LIGHT dba ALLIANT ENERGY	TEMPORARY RELEASE OF RIGHTS					

BEGIN RELOCATION ORDER -
SEGMENT 1
STA 10+00.00
Y = 148849.96
X = 682333.69

ALUMINUM MONUMENT
Y = 146606.66
X = 682356.01

PIERCE'S ADDITION
BLOCK 21

CITY OF BRODHEAD

2ND AVENUE

BRODHEAD WATER & LIGHT

PIERCE'S ADDITION
BLOCK 22

BEGIN RELOCATION ORDER -
SEGMENT 2
STA 229+00.00
Y = 148961.72
X = 682982.77

END RELOCATION ORDER -
SEGMENT 2
STA 230+50.00
Y = 148963.18
X = 683132.76

TOWN OF DECATUR

NE/SW

SE/NW

SW/NE

NW/SE

FRONTIER COMMUNICATIONS

KERSCHNER FARMS LLC

CHARTER COMMUNICATIONS

TLE FOR GRADING
(0.14 AC.)

ALLIANT ENERGY

TOWN OF DECATUR

ALUMINUM MONUMENT
Y = 151887.29
X = 682283.98

PLE COORDINATES		
POINT	Y	X
104	148968.84	682995.10
105	148984.84	682994.89
106	148985.85	683099.22
107	148969.86	683099.52

COURSE TABLE		
COURSE	BEARING	LENGTH
100-101	N 00° 46' 53" W	2290.89'
101-102	N 89° 26' 40" E	48.24'
102-103	N 89° 26' 40" E	589.97'
103-104	N 26° 12' 33" E	72.80'
104-105	N 00° 44' 47" W	16.00'
105-106	N 89° 26' 40" E	104.30'
106-107	S 01° 04' 36" E	16.00'
107-104	S 89° 26' 40" W	104.40'



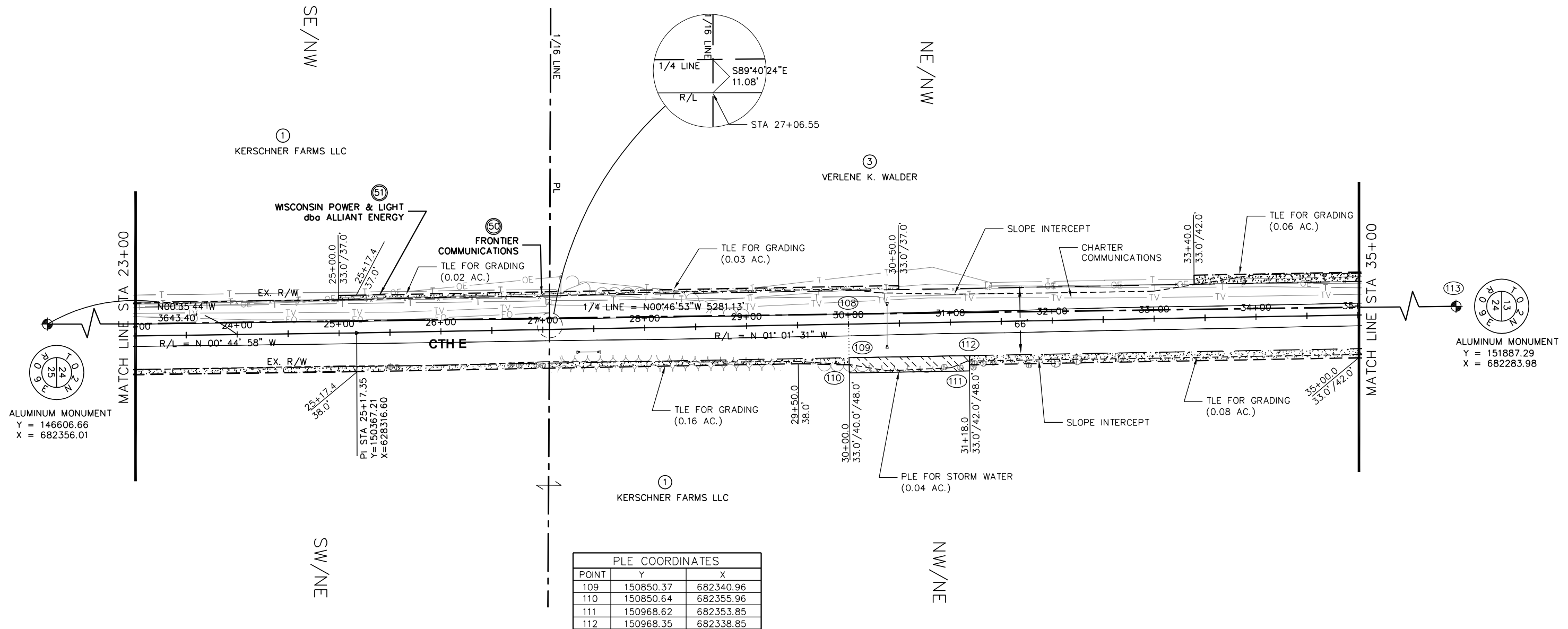
NOTE:
R/W ESTABLISHED FROM PIERCE'S ADDITION TO
THE CITY OF BRODHEAD, STATE STATUTE 82.31, &
CENTERLINE OF EXISTING PAVEMENT.

REVISION DATE 5/26/2015	DATE 12/18/2014	SCALE, FEET 0 25 50 100	HWY: CTH E	STATE R/W PROJECT NUMBER: 5605-00-01	PLAT SHEET NO: 4.03
	GRID FACTOR N/A		COUNTY: GREEN	CONSTRUCTION PROJECT NUMBER: 5605-00-70	PS&E SHEET NO. E



NOTE:
R/W ESTABLISHED FROM STATE STATUTE 82.31 &
CENTERLINE OF EXISTING PAVEMENT.

TOWN OF DECATUR



PLE COORDINATES		
POINT	Y	X
109	150850.37	682340.96
110	150850.64	682355.96
111	150968.62	682353.85
112	150968.35	682338.85

COURSE TABLE		
COURSE	BEARING	LENGTH
113-108	S 00° 46' 53" E	1037.79'
108-109	N 88° 58' 29" E	42.83'
109-110	N 88° 58' 29" E	15.00'
110-111	N 01° 01' 31" W	118.00'
111-112	S 88° 58' 29" W	15.00'
112-109	S 01° 01' 31" E	118.00'

TOWN OF DECATUR

REVISION DATE 5/26/2015 - N.C.	DATE 12/18/2014	SCALE, FEET 	HWY: CTH E	STATE R/W PROJECT NUMBER: 5605-00-01	PLAT SHEET NO: 4.04
	GRID FACTOR N/A		COUNTY: GREEN	CONSTRUCTION PROJECT NUMBER: 5605-00-70	PS&E SHEET NO. E

END RELOCATION ORDER -
SEGMENT 1
STA 45+00.00
Y = 151892.51
X = 681671.40



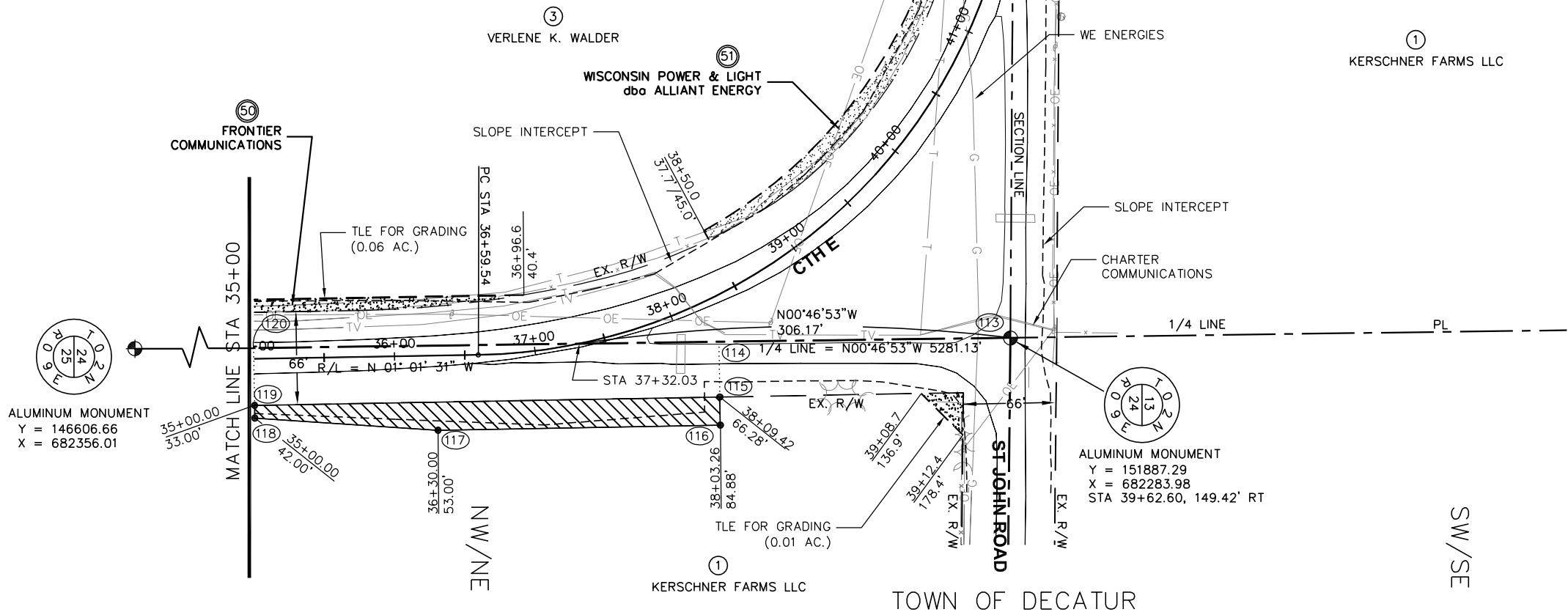
NOTE:
R/W ESTABLISHED FROM STATE STATUTE 82.31 &
CENTERLINE OF EXISTING PAVEMENT.

ALIGNMENT CURVE DATA

PI = 40+42.17	Y = 151891.78	X = 682289.32
PC = 36+59.54	Y = 151509.21	X = 682296.16
PT = 42+64.71	Y = 151892.23	X = 681906.68
Δ = 88° 54' 27"	L = 605.17	T = 382.63
D = 14° 41' 28"	R = 390.00	

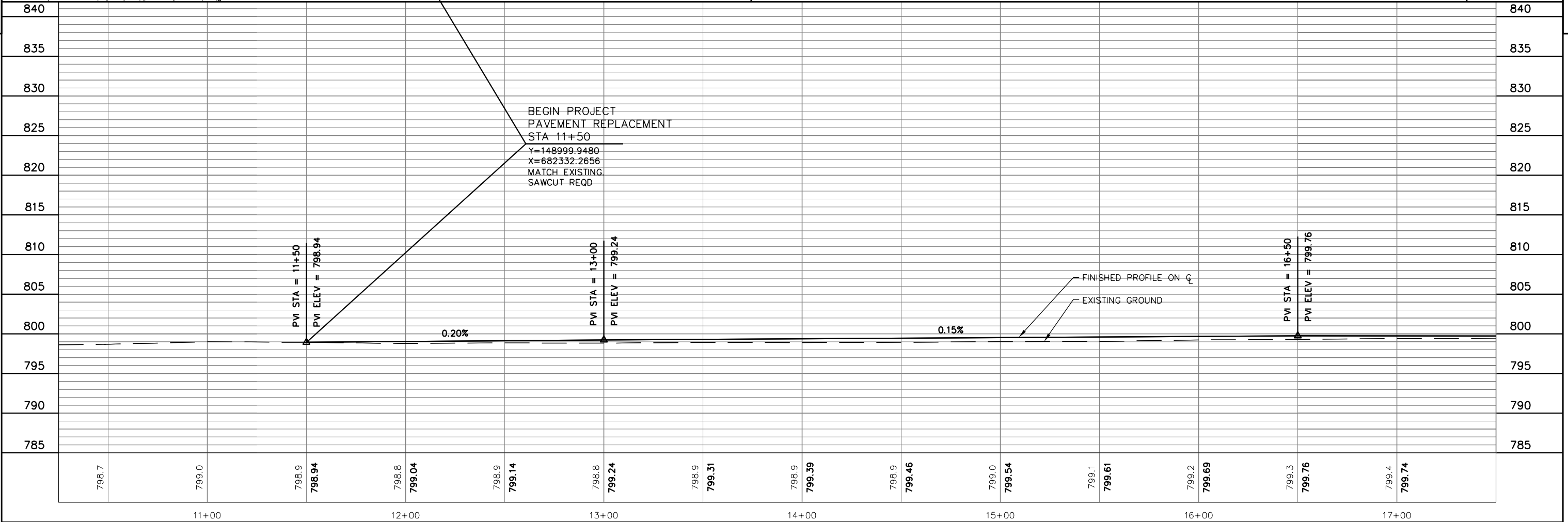
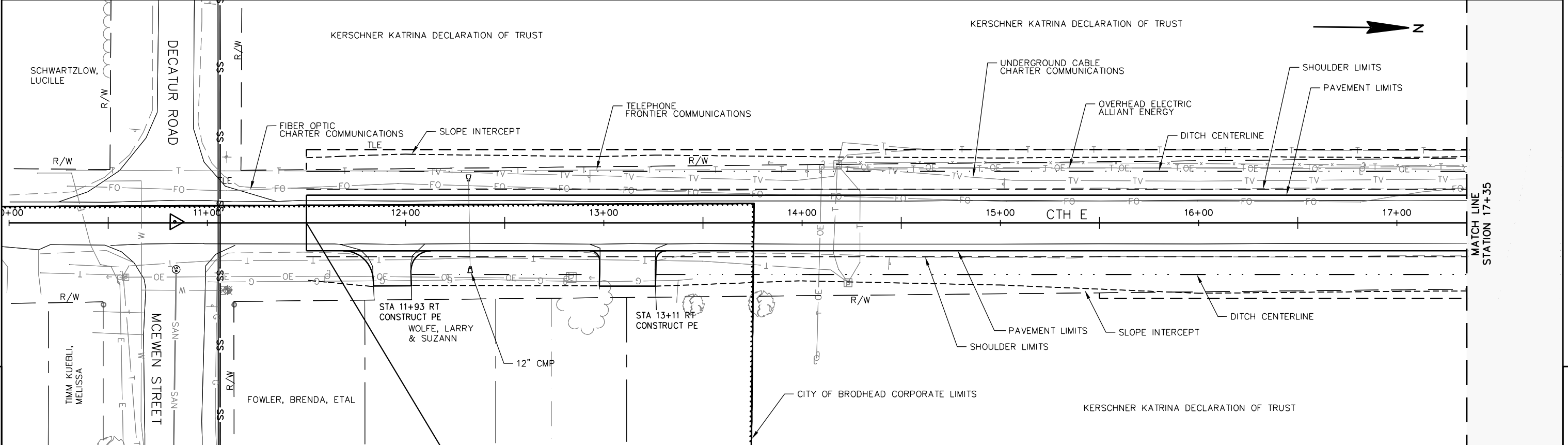
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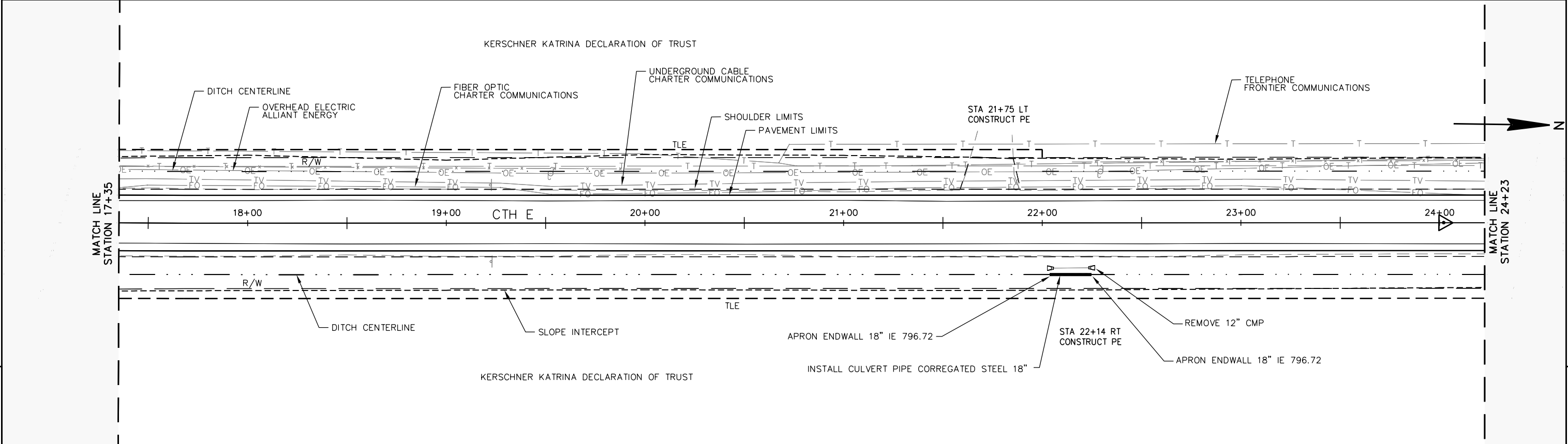
FEE COORDINATES		
POINT	Y	X
115	151680.84	682326.10
116	151681.20	682346.09
117	151480.63	682349.68
118	151350.45	682341.01
119	151350.29	682332.01

COURSE TABLE		
COURSE	BEARING	LENGTH
113-114	S 00° 46' 53" E	207.17'
114-115	N 88° 58' 29" E	39.30'
115-116	N 88° 58' 29" E	20.00'
116-117	S 01° 01' 31" E	200.61'
117-118	S 03° 48' 40" W	130.46'
118-119	S 88° 58' 29" W	9.00'
119-120	S 88° 58' 29" W	40.70'
120-114	N 00° 46' 53" W	330.61'

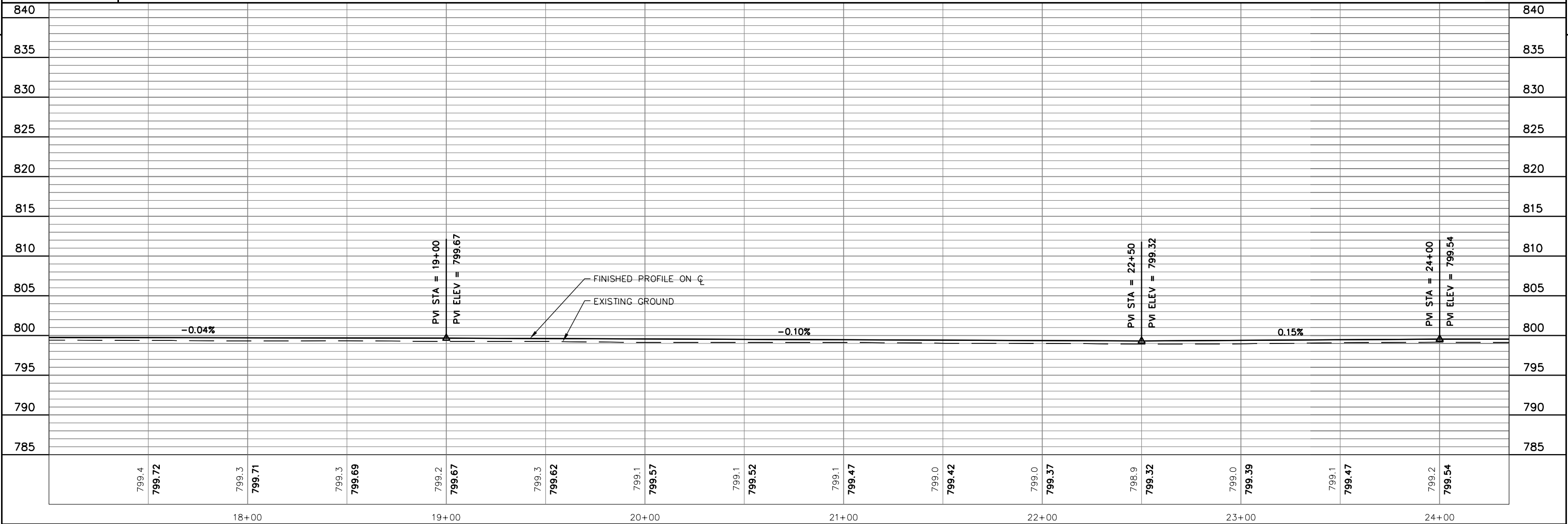


PROJECT NO: 5605-00-70	HWY: CTH E	COUNTY: GREEN	PLAN & PROFILE:	SHEET	E
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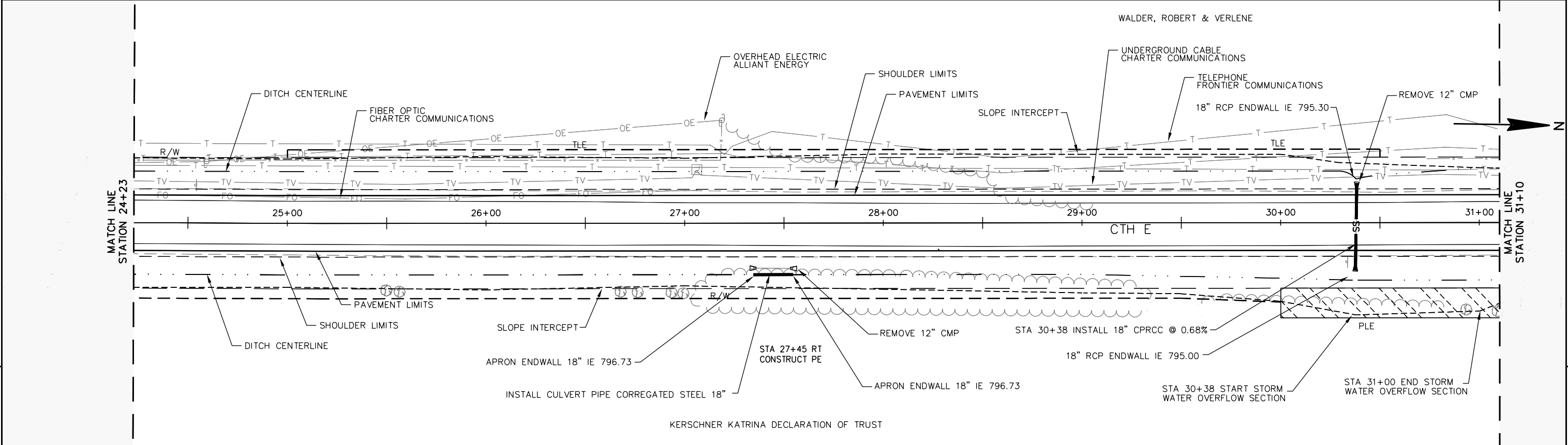
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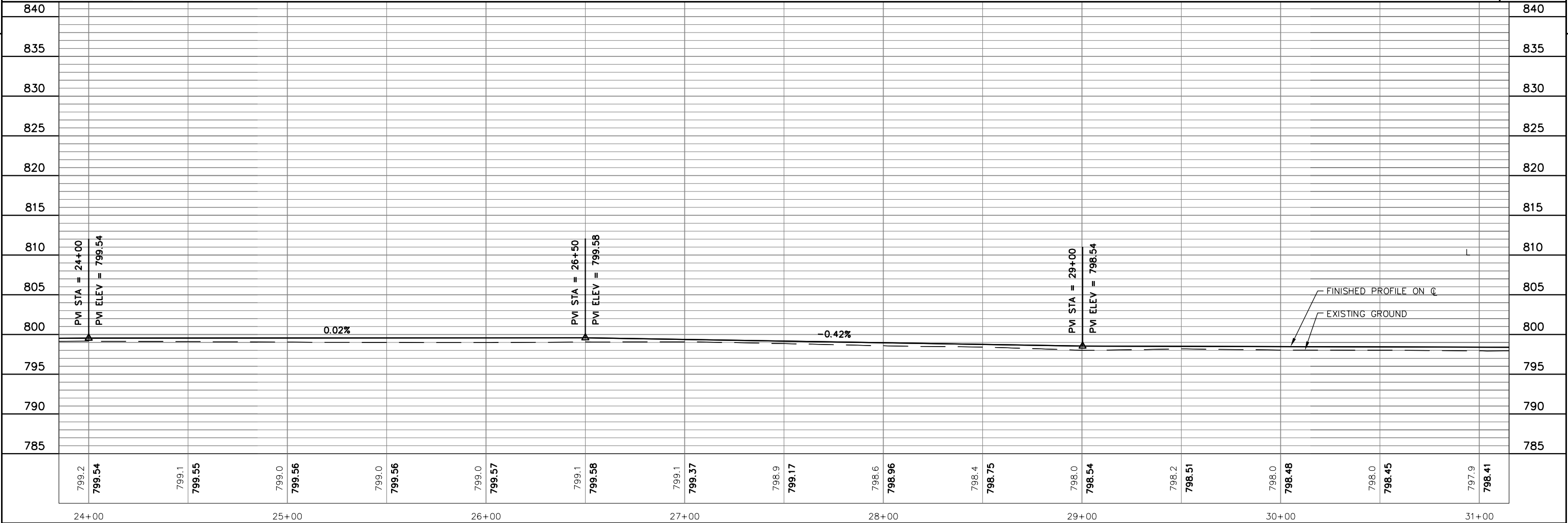
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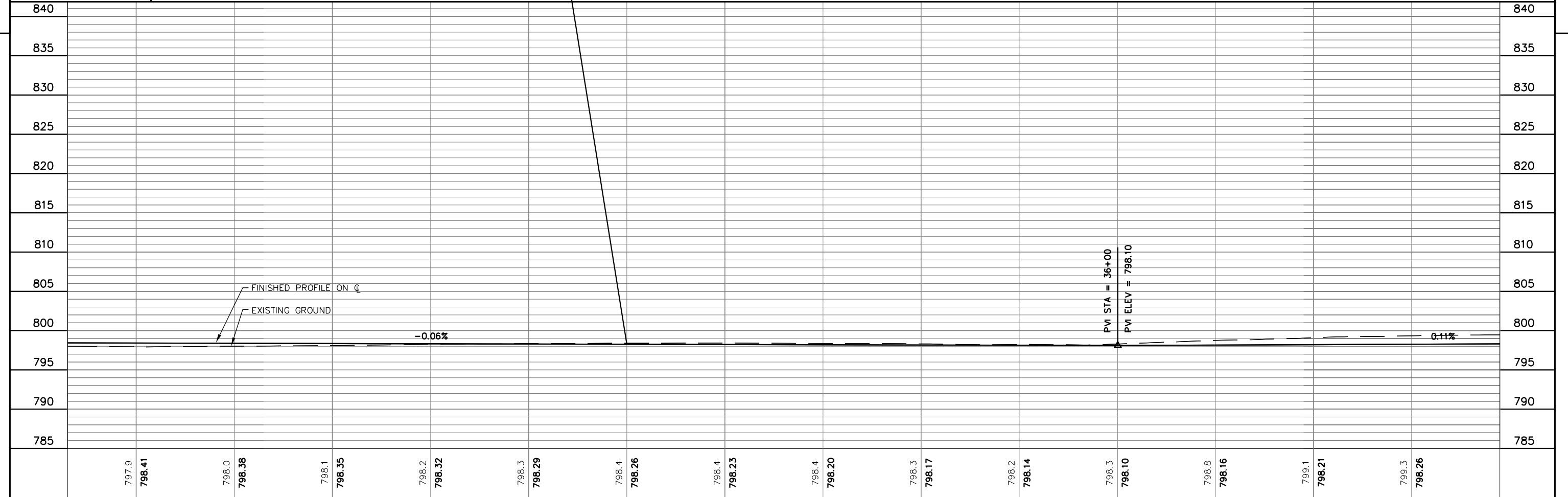
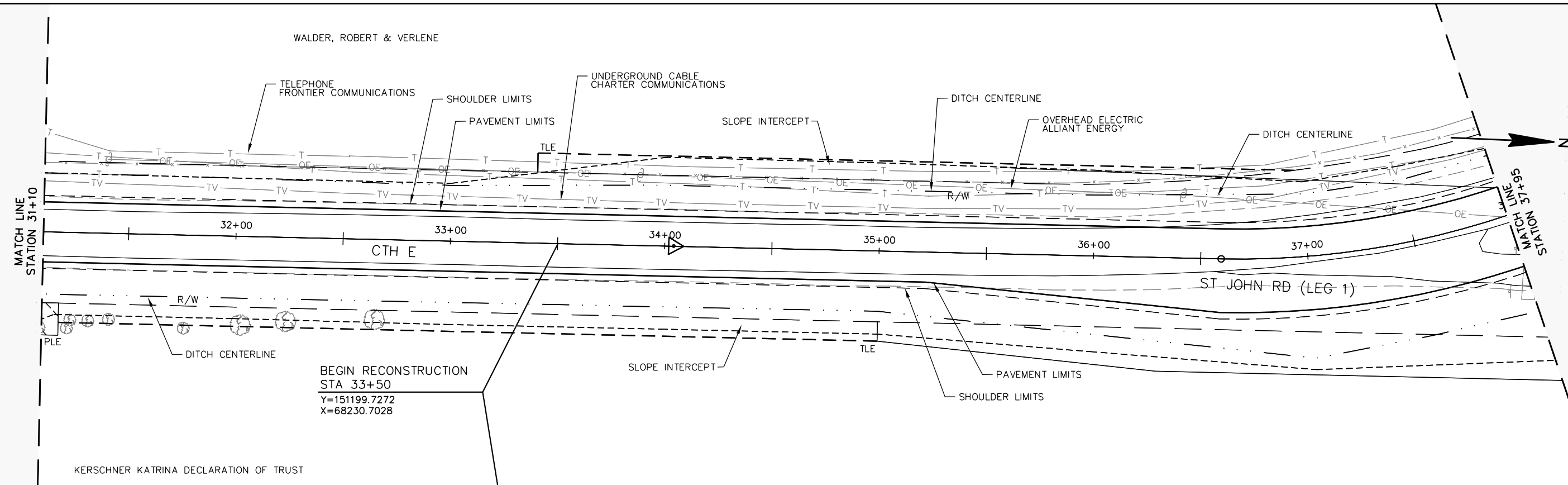


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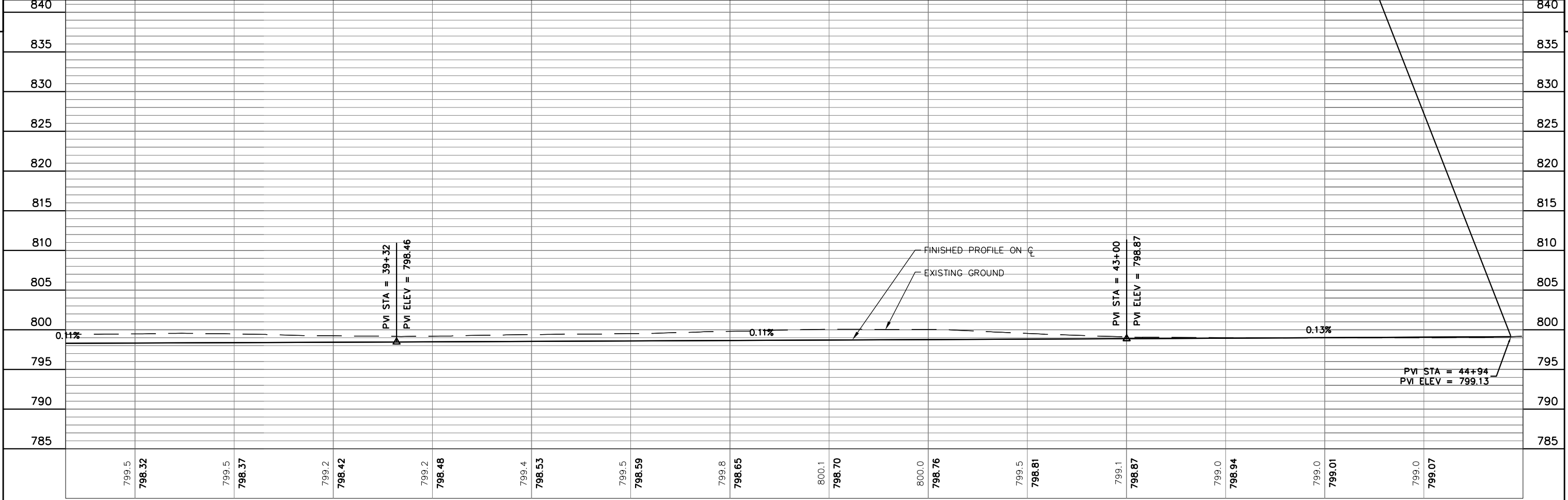
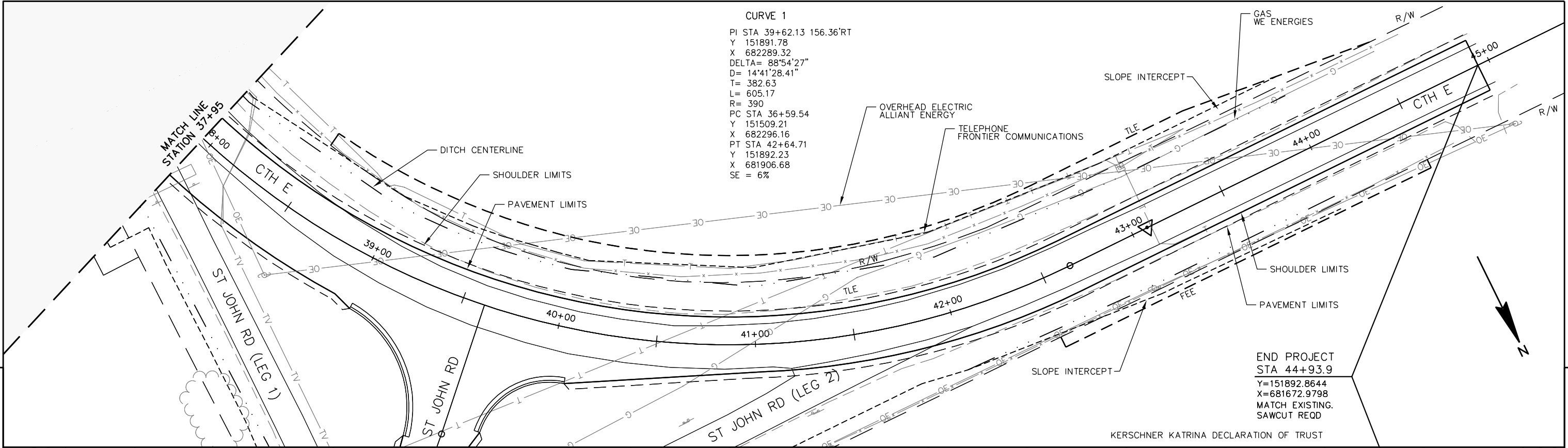


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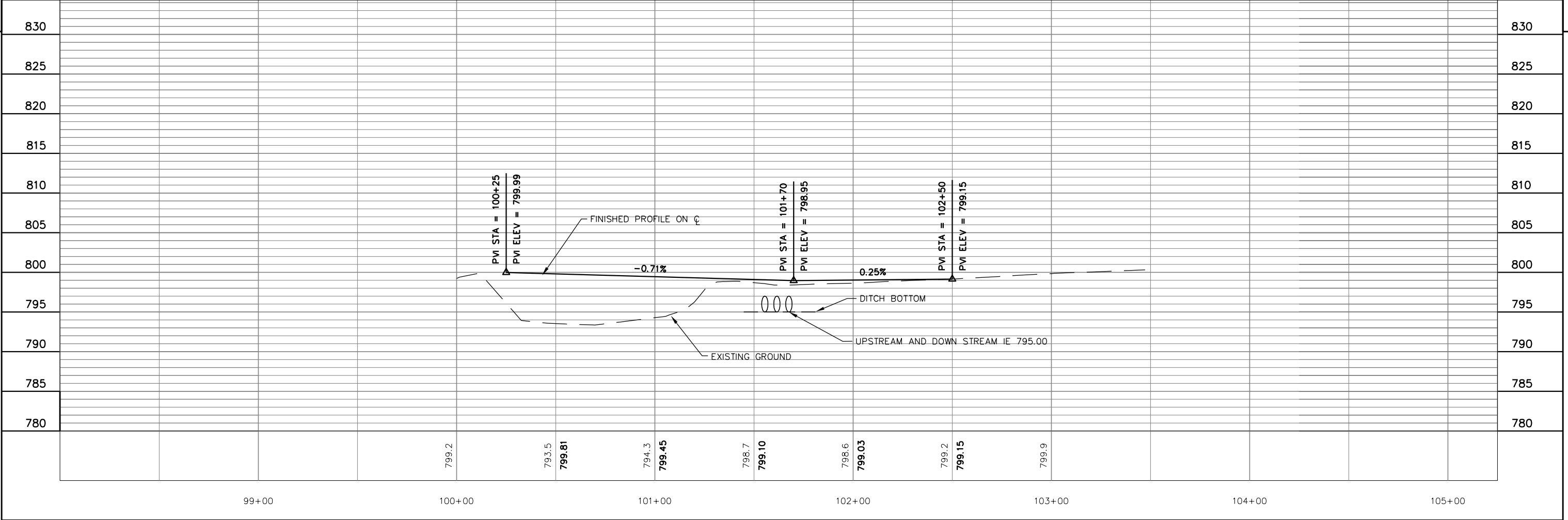
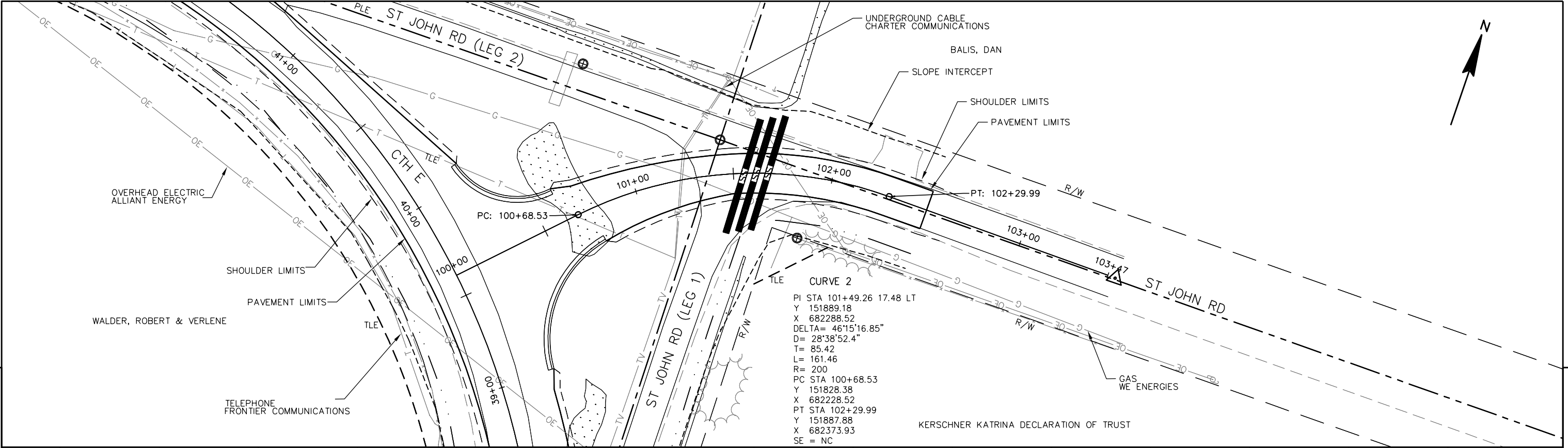




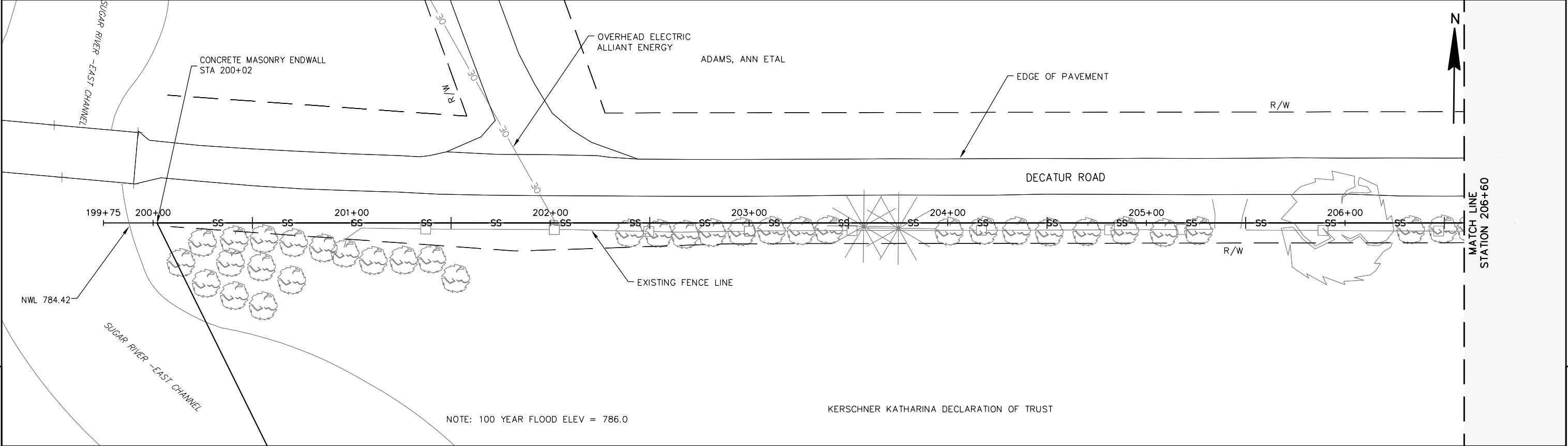
PROJECT NO: 5605-00-70			HWY: CTH E			COUNTY: GREEN			PLAN & PROFILE:					SHEET		E
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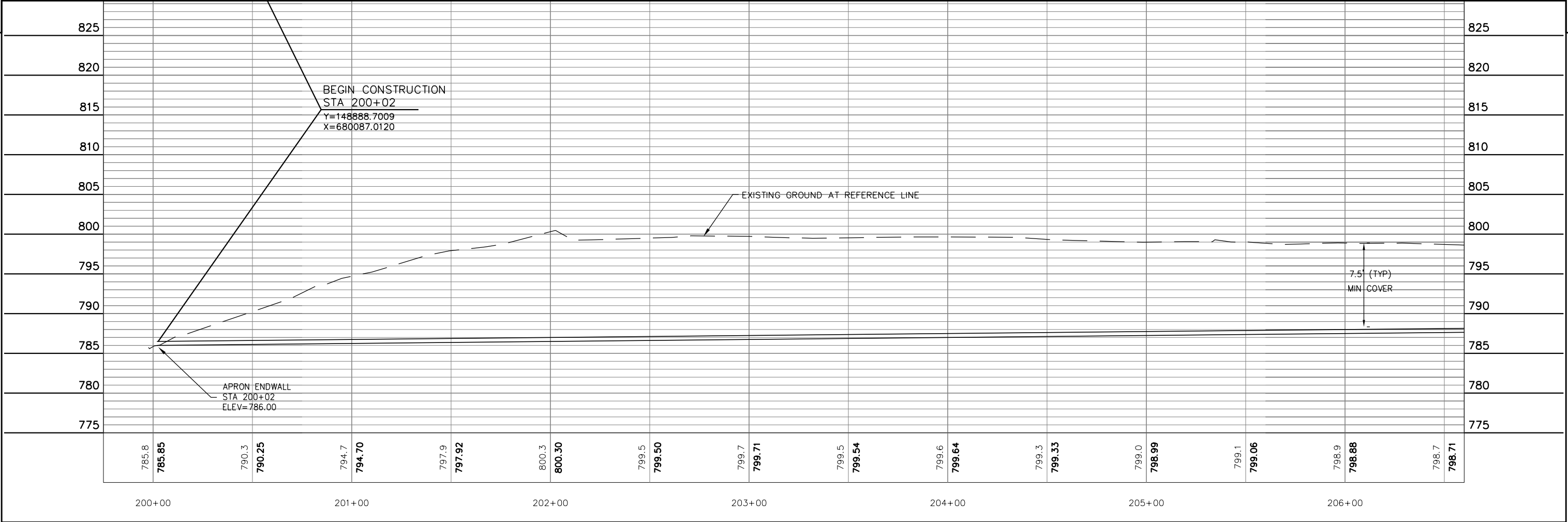
PROJECT NO: 5605-00-70	HWY: CTH E	COUNTY: GREEN	PLAN & PROFILE:	SHEET E
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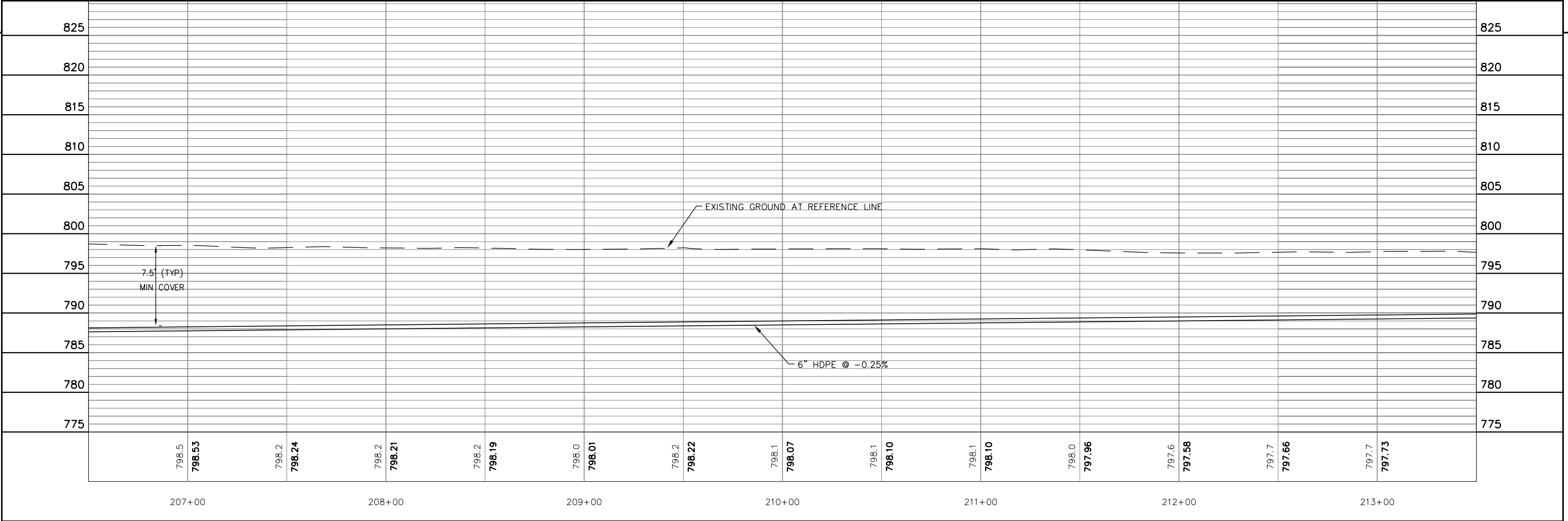
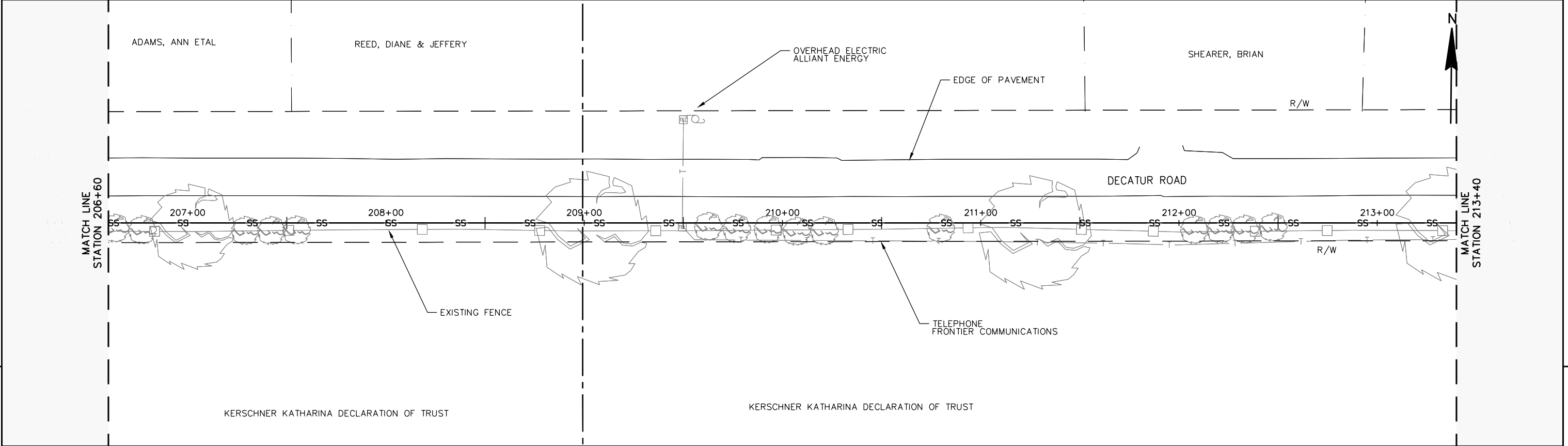
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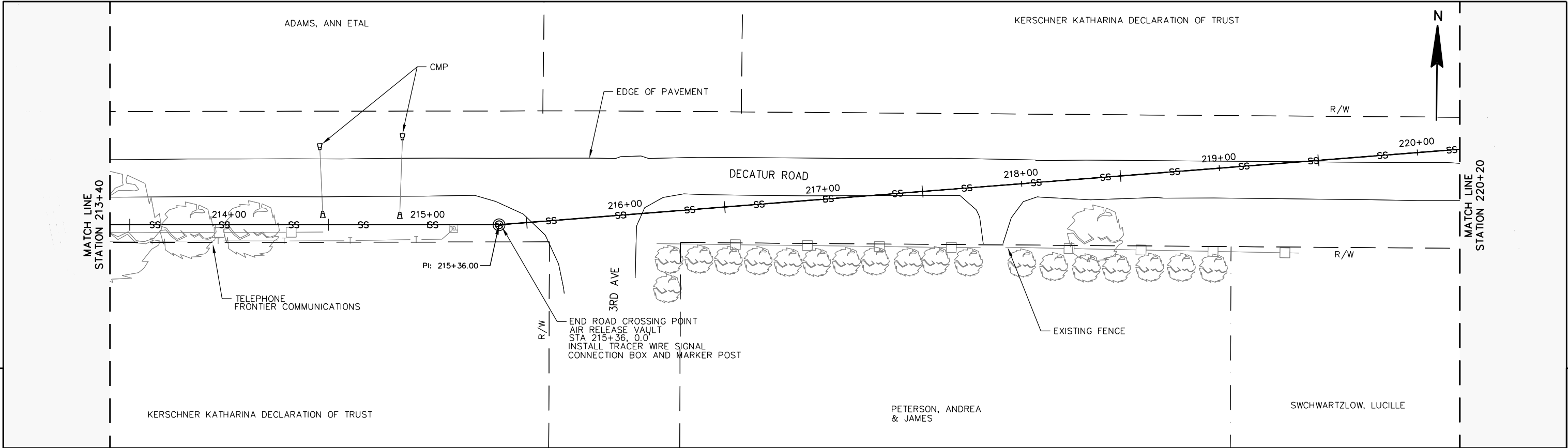


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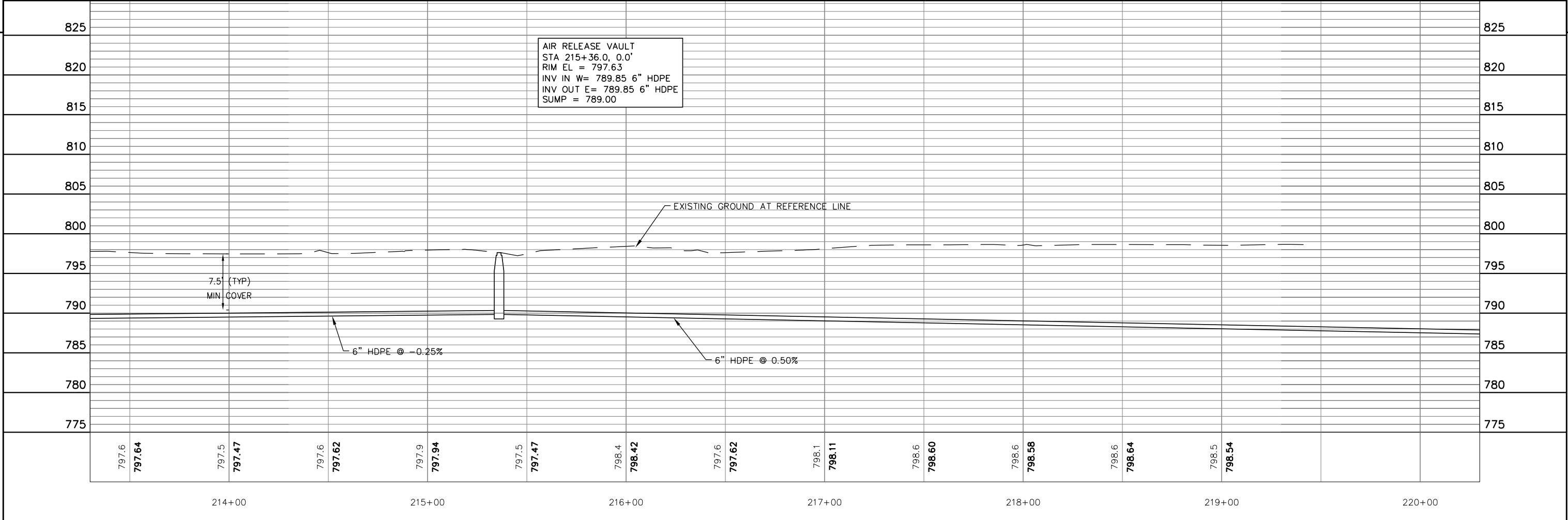


PROJECT NO: 5605-00-70	HWY: CTH E	COUNTY: GREEN	PLAN & PROFILE: STORM SEWER FORCE MAIN	SHEET	E
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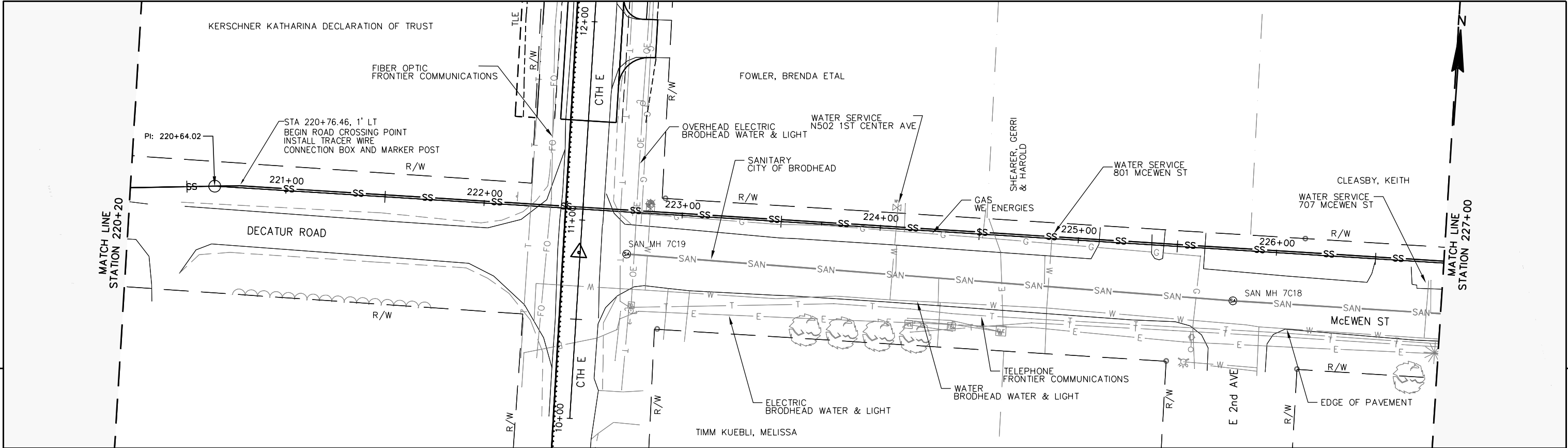


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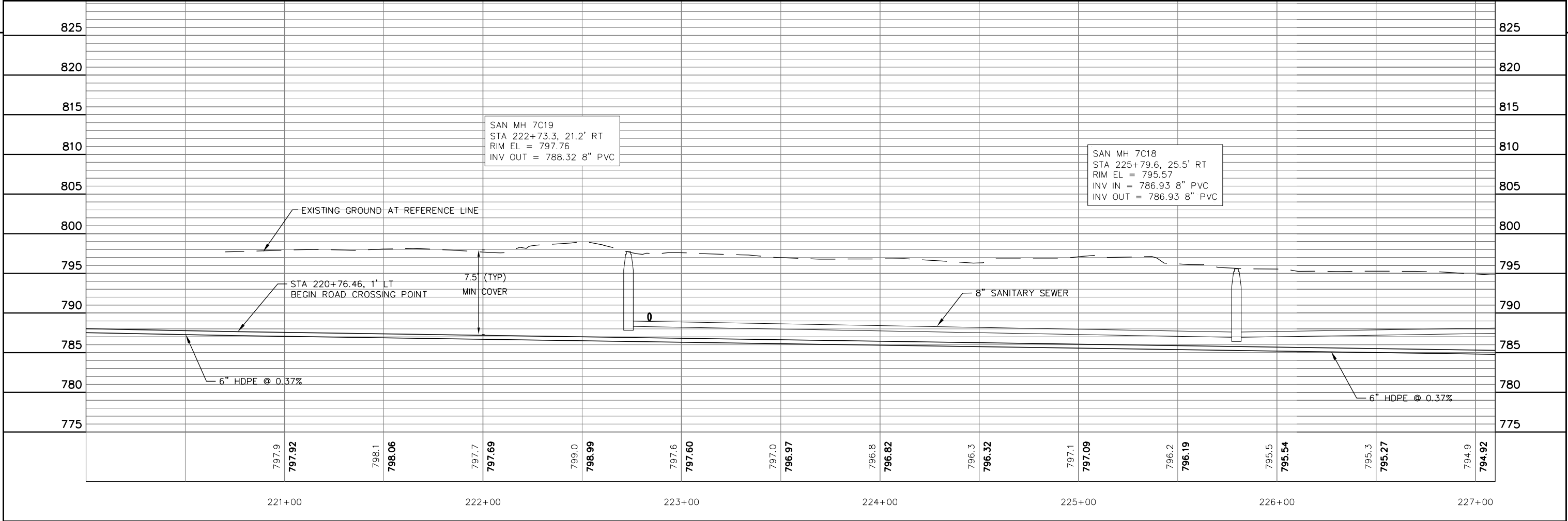


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5

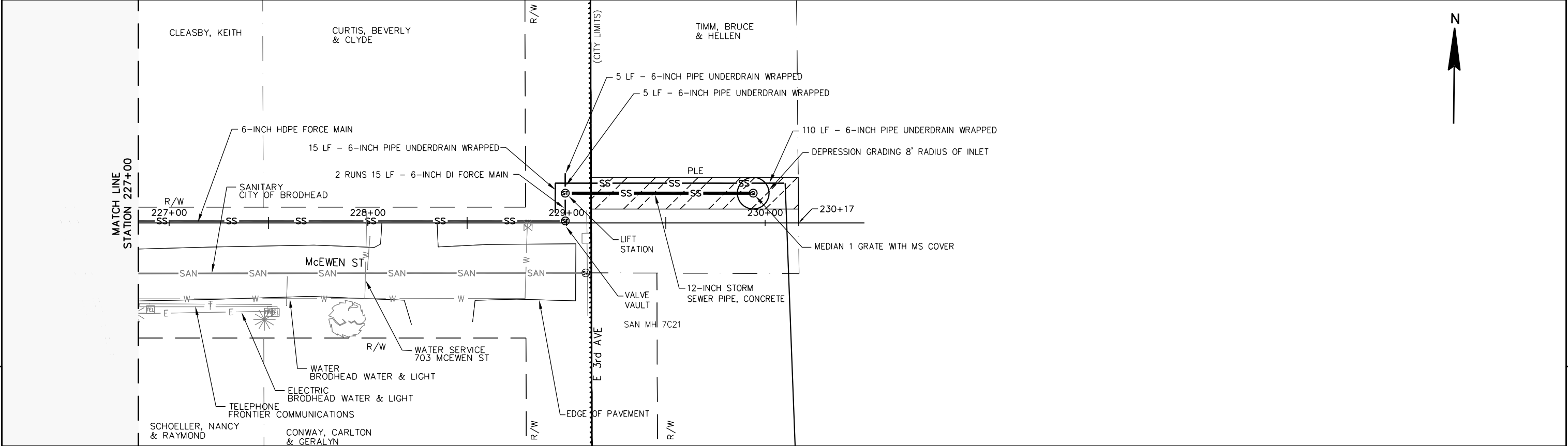


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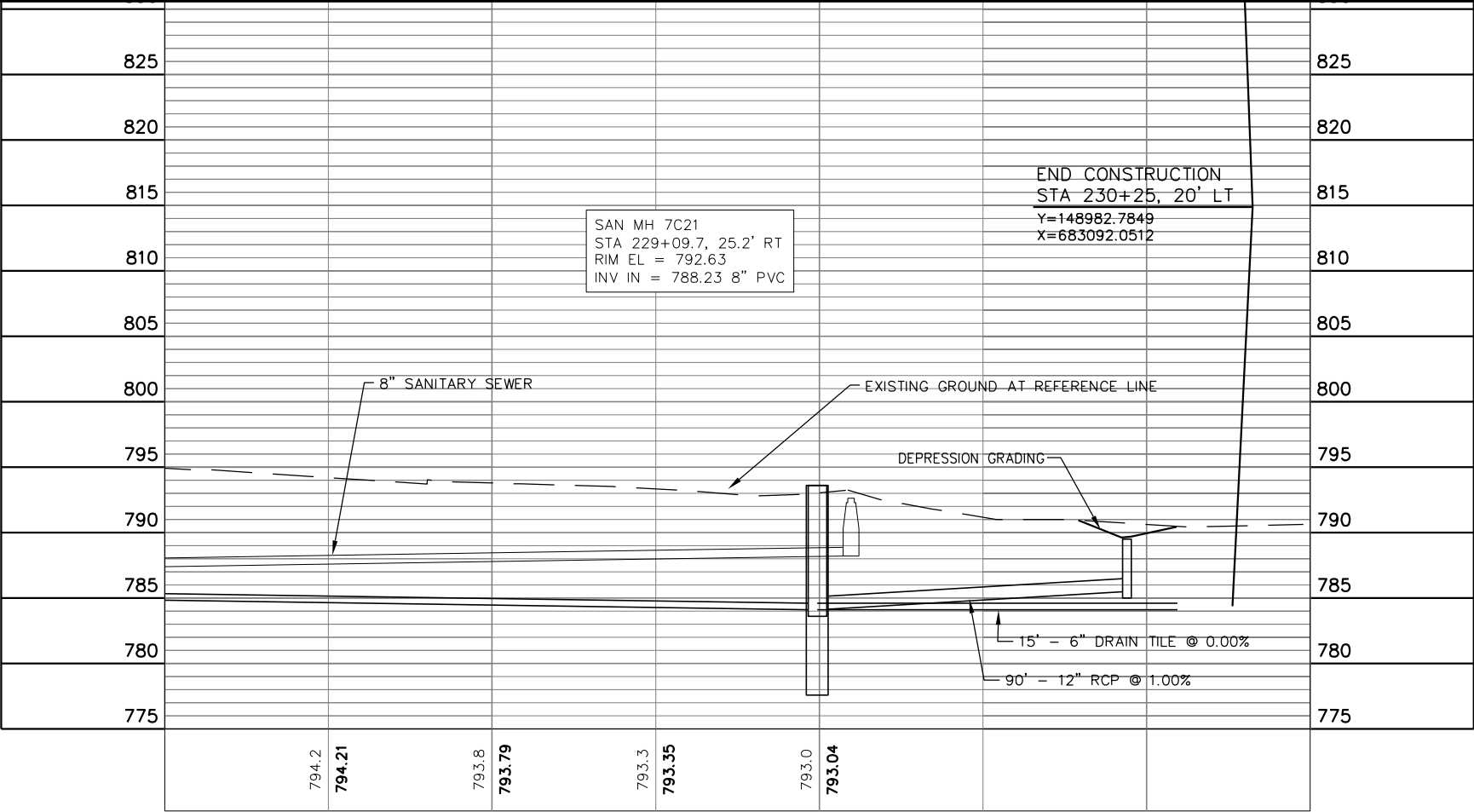


PROJECT NO: 5605-00-70	HWY: CTH E	COUNTY: GREEN	PLAN & PROFILE: STORM SEWER FORCE MAIN	SHEET	E
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5



5



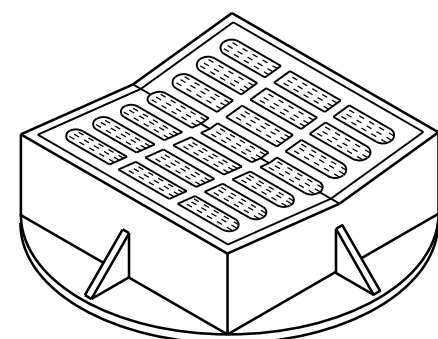
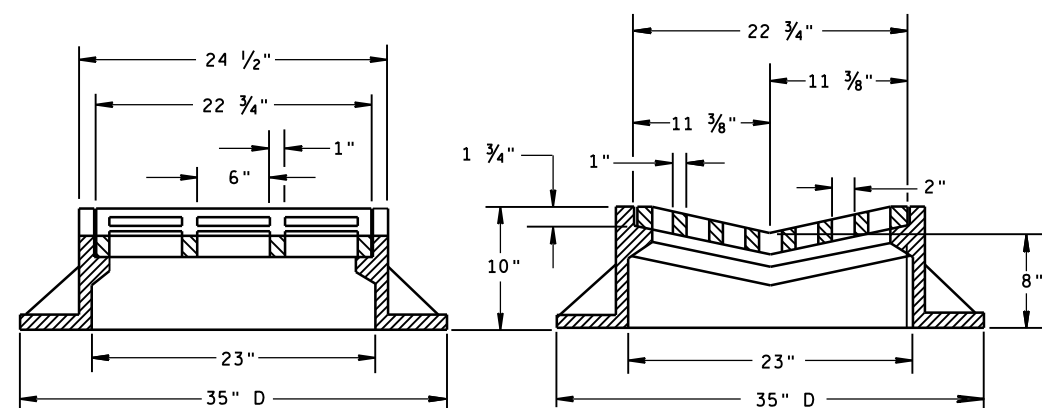
VALVE VAULT
STA 228+99.4, -1.0'
RIM EL = 793.60
INV IN W= 784.10 6" HDPE
INV OUT N= 784.10 6" HDPE
SUMP = 782.1
BOTTOM OF STRUCTURE = 780.40

LIFT STATION
STA 228+99.4, -15.0'
RIM EL = 793.60
INV IN S= 784.10 6" HDPE
INV IN E= 784.10 12" RCP
INV OUT N= 784.10 6" HDPE
SUMP = 778.10
BOTTOM OF STRUCTURE = 774.10

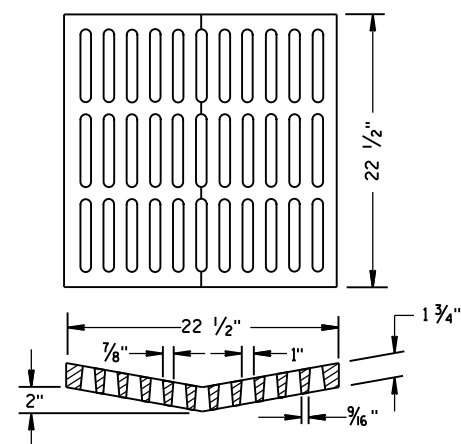
MEDIAN 1 GRATE WITH MS COVER
STA 229+94.0, -15.0'
RIM EL = 789.50
INV OUT W= 785.50 12" RCP
EXISTING GRADE 790.0 -790.5

Standard Detail Drawing List

08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08C08-01	INLETS MEDIAN 1 AND 2 GRATE
08D01-17	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
15C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C03-02	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING

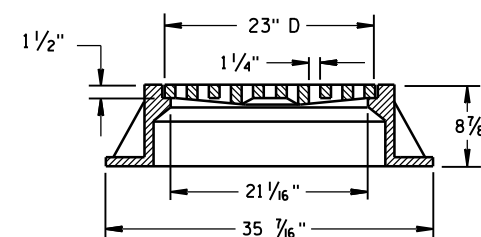
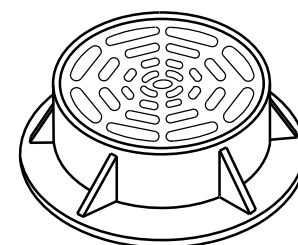
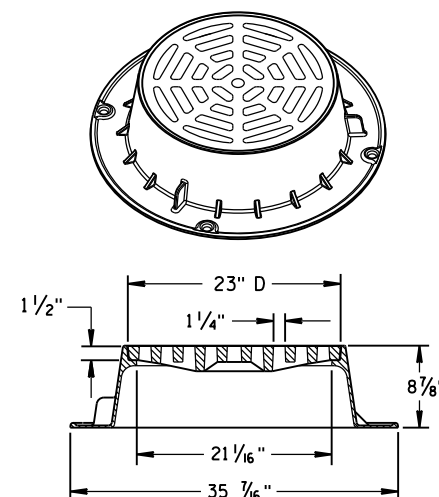


TYPE "B"



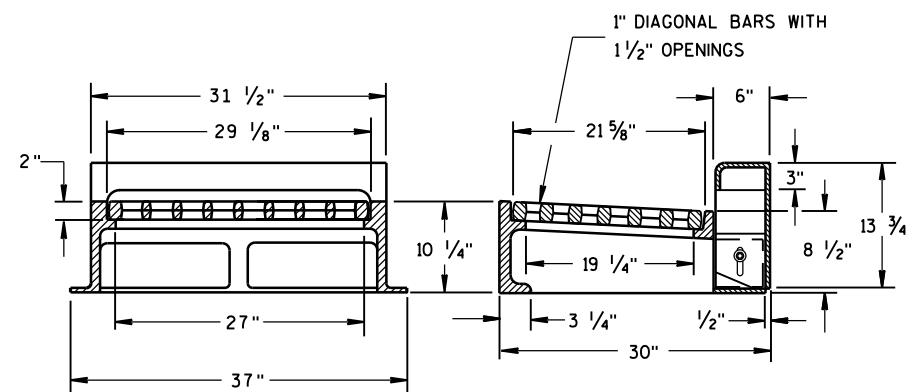
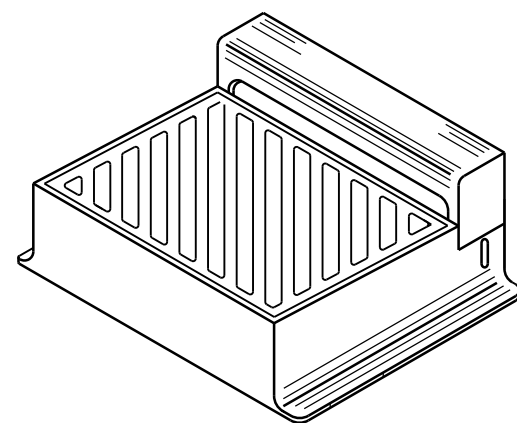
ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

NOTE: EITHER CASTING IS ACCEPTABLE



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

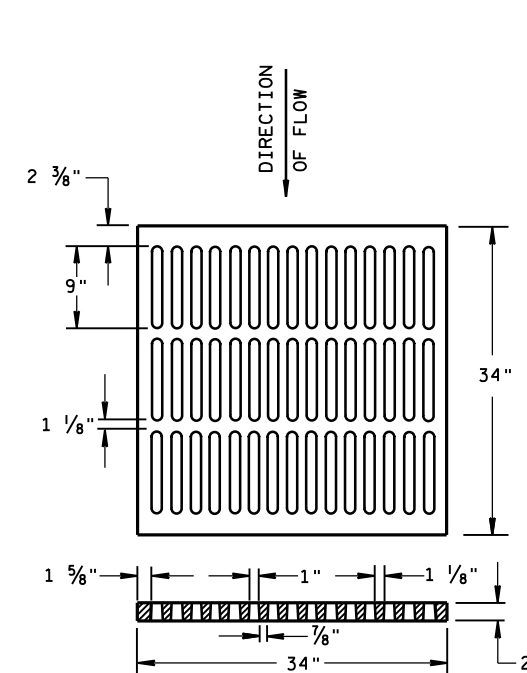
TYPE "WM"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

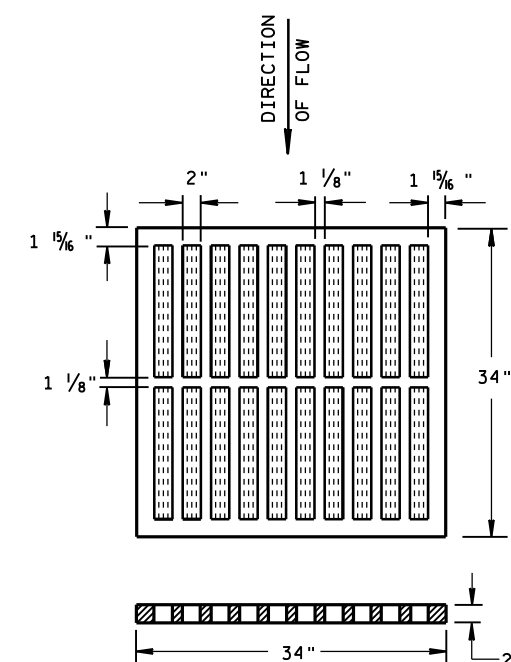
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE



TYPE "MS"

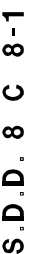
USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE

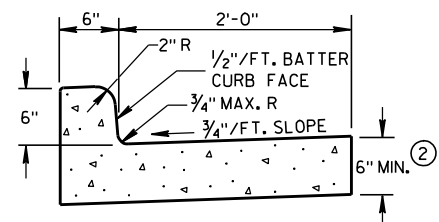
**INLET COVERS
TYPE B, B-A, C,
MS, MS-A, & WM**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

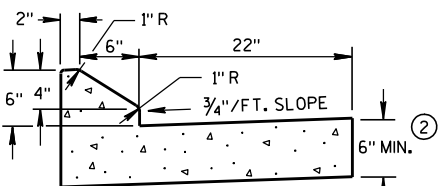
APPROVED
11/27/2013
DATE
FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER

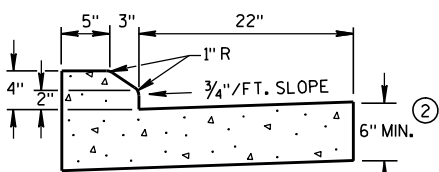




TYPES A & D ①

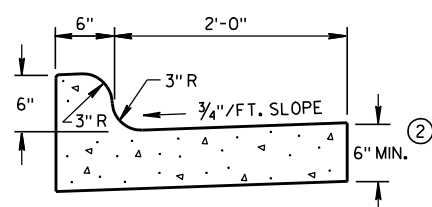


6" SLOPED CURB TYPES G & J ①

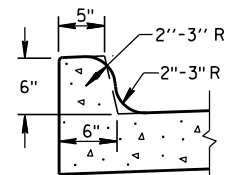
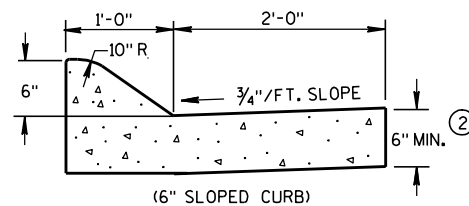


4" SLOPED CURB TYPES G & J ①

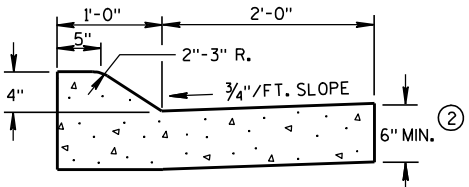
CONCRETE CURB & GUTTER 30"



TYPES K & L ①

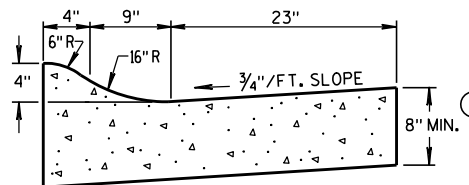
OPTIONAL CURB SHAPE
FOR TYPES K & L ①

(6" SLOPED CURB)

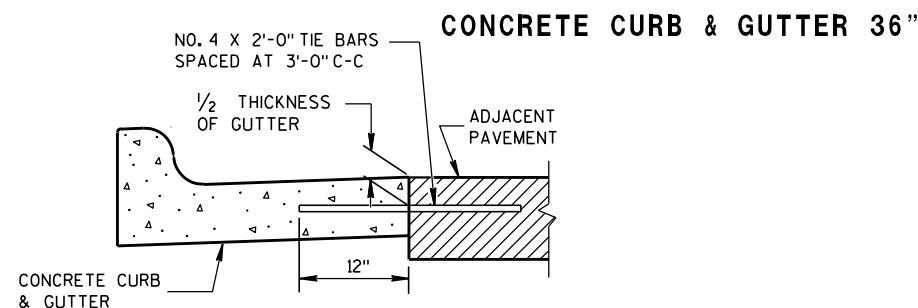


(4" SLOPED CURB)

TYPES A & D ①

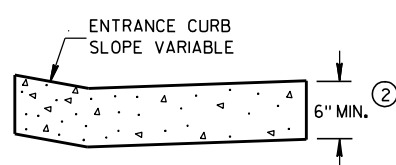


4" SLOPED CURB TYPES R & T ① ④



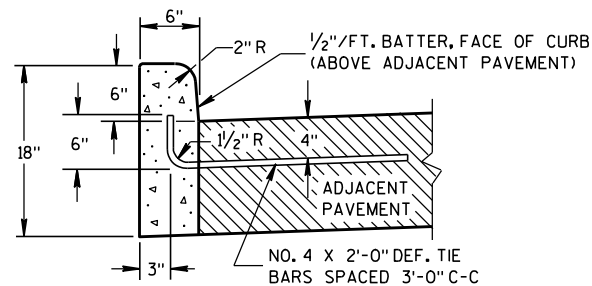
CONCRETE CURB & GUTTER 36"

TYPICAL TIE BAR LOCATION ①



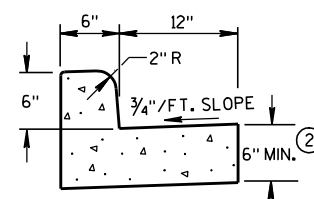
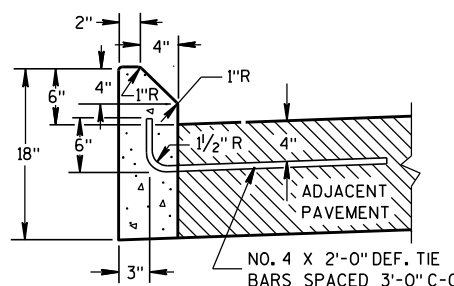
DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)



TYPES A & D ①

CONCRETE CURB

TYPES A & D
CONCRETE CURB & GUTTER 18"

TYPES G & J ①

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

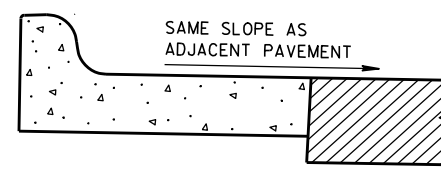
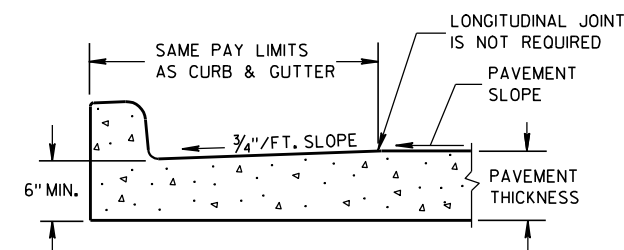
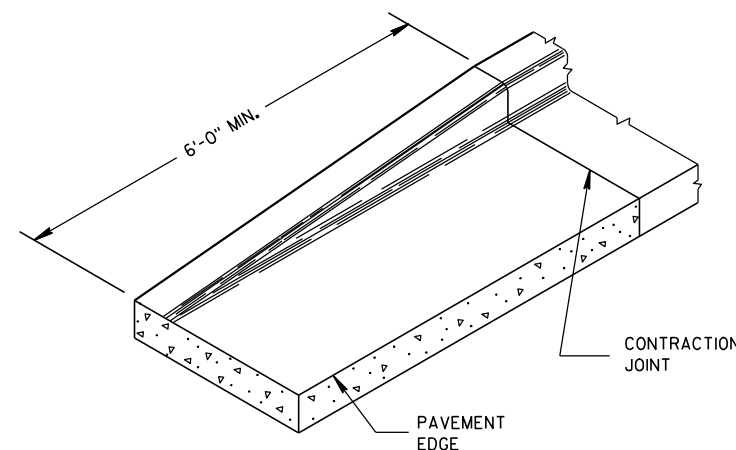
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

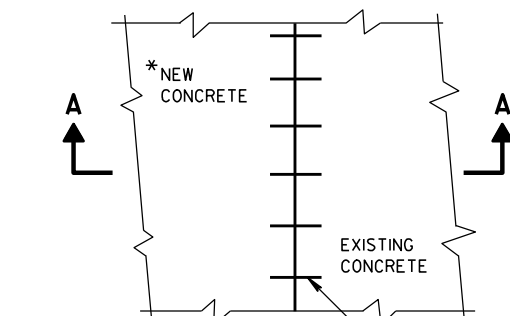
WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

- ① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K AND R.
- ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ③ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ④ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
- ⑤ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

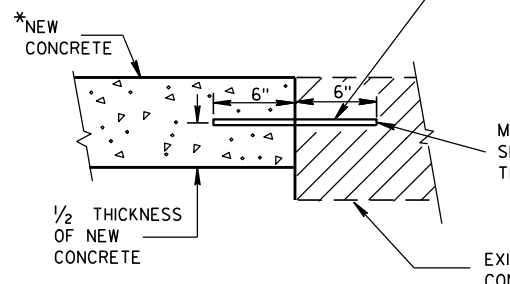
REVERSE SLOPE GUTTER ⑤
(TYPICAL FOR ALL CURB & GUTTER TYPES)PARTIAL SECTION OF PAVEMENT
WITH INTEGRAL CURB & GUTTER

END SECTION CURB & GUTTER



PLAN VIEW

* NEW CURB & GUTTER,
SURFACE DRAINS,
CONCRETE PAVEMENT
OR OTHER NEW CONCRETE.

SECTION A-A
TIE BARS DRILLED
INTO EXISTING PAVEMENT

NO. 6 TIE BARS SPACED 2'-6" C-C,
INSTALLED PERPENDICULAR
TO THE LONGITUDINAL JOINT.

MAXIMUM DRILL HOLE
SIZE IS 1/8" GREATER
THAN TIE BAR DIAMETER

EXISTING
CONCRETE

CONCRETE CURB, CONCRETE
CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

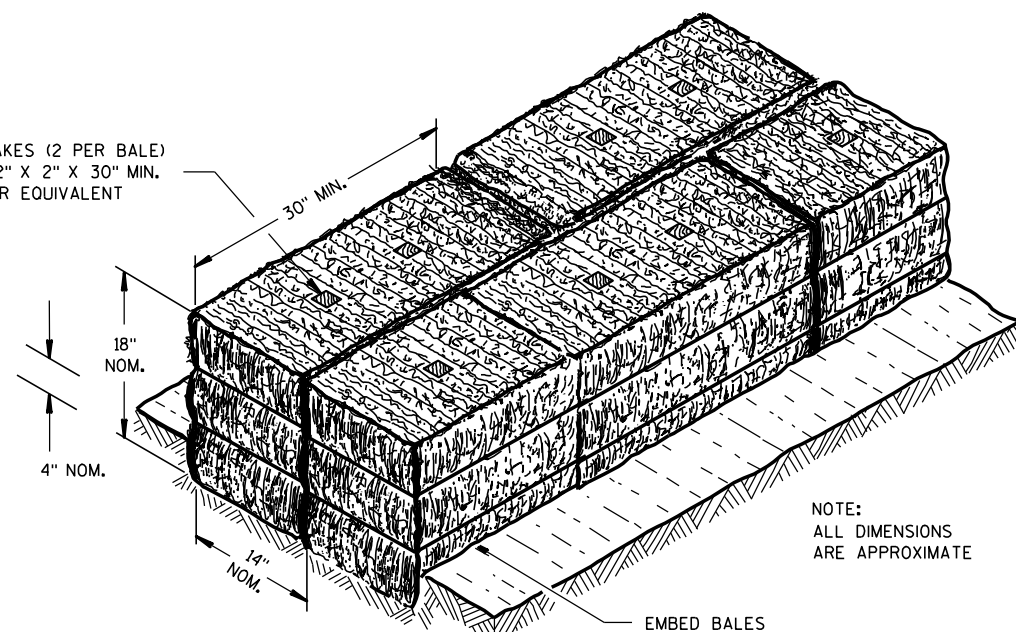
9/4/08

DATE

FHWA

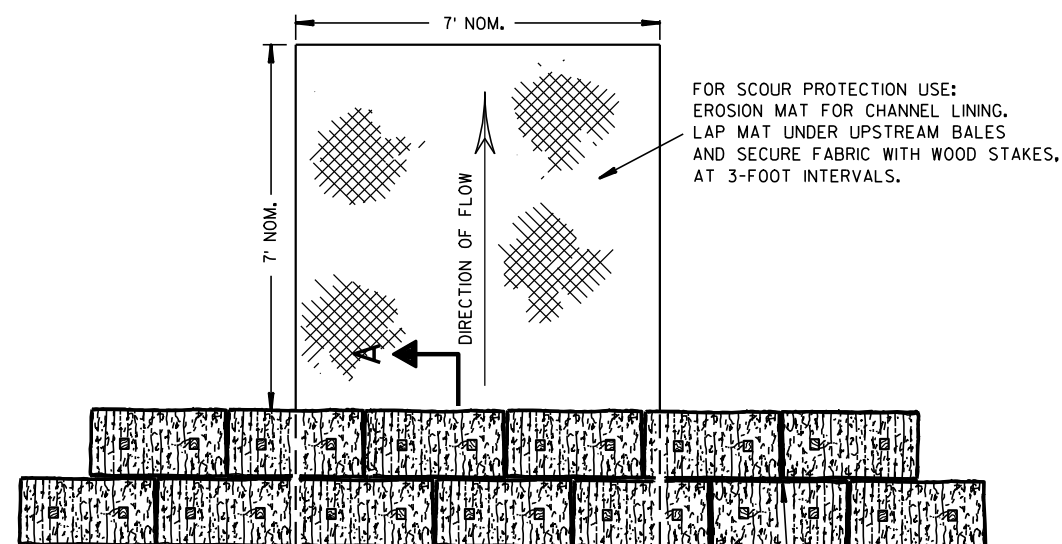
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER

WOOD STAKES (2 PER BALE)
NOMINAL 2" X 2" X 30" MIN.
LENGTH OR EQUIVALENT



NOTE:
ALL DIMENSIONS
ARE APPROXIMATE

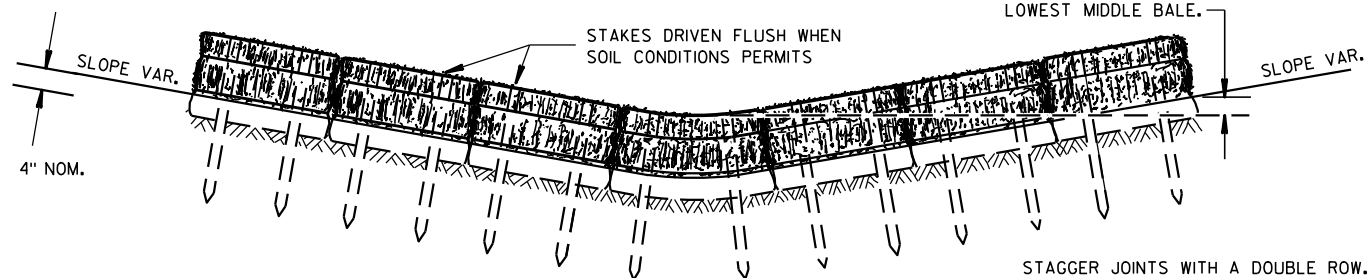
SECTION A-A



PLAN VIEW

STAGGER JOINTS BETWEEN ADJACENT
ROWS OF BALES.

BOTTOM ELEVATION OF END BALE SHALL
BE EQUAL TO OR GREATER THAN TOP OF
LOWEST MIDDLE BALE.



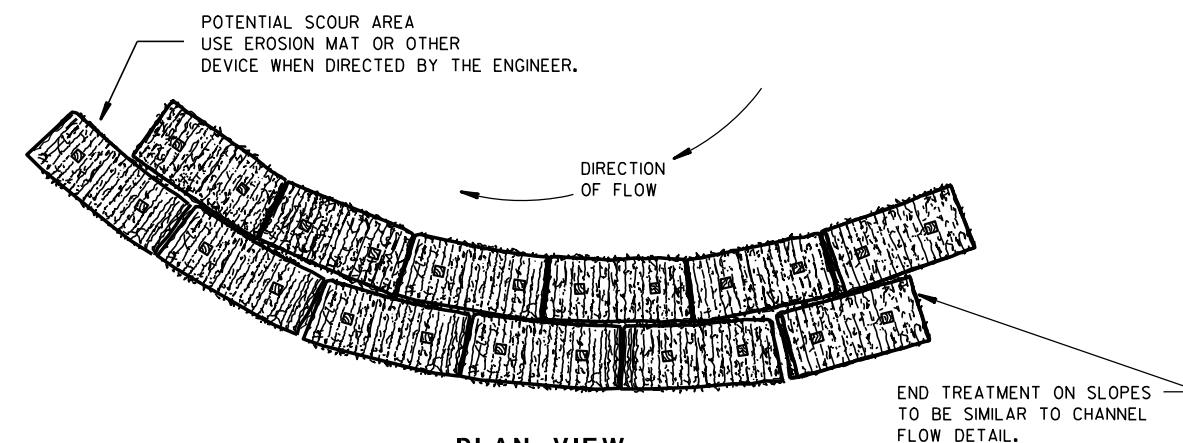
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

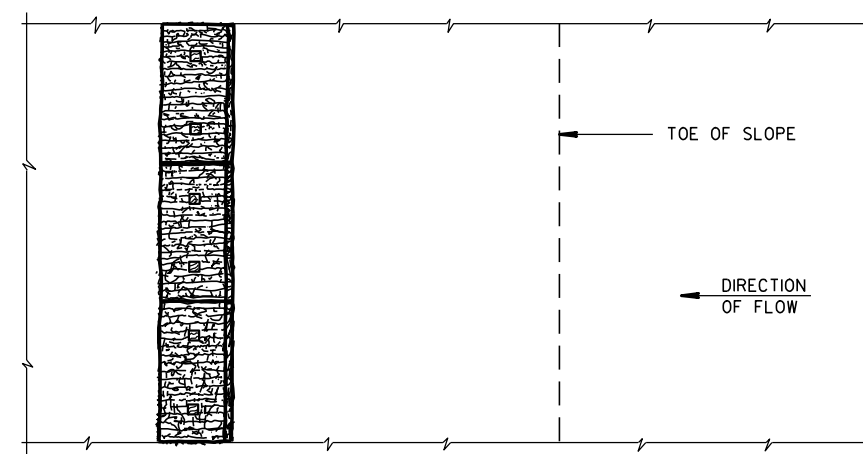
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

- ① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

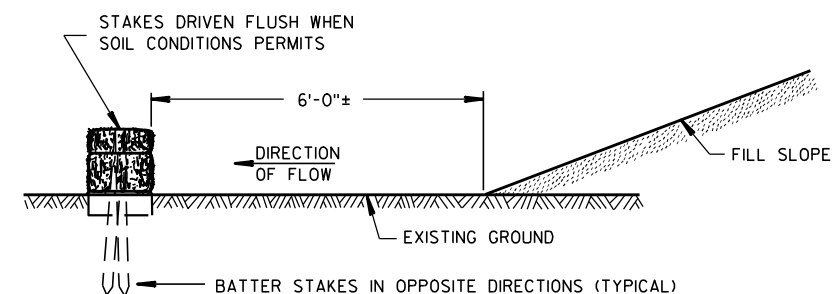


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF
EROSION BALES / TEMPORARY
DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02
DATE

FHWA

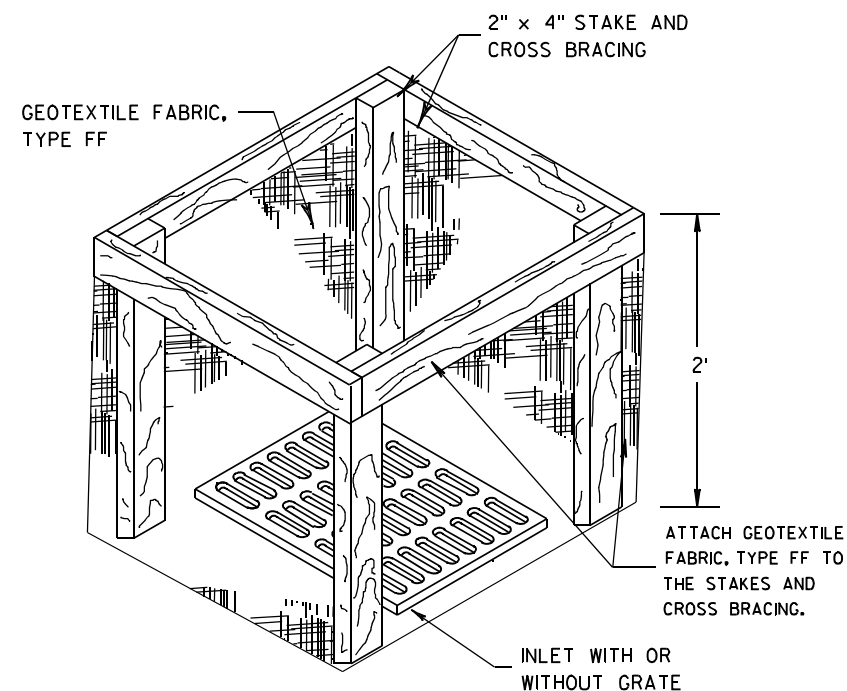
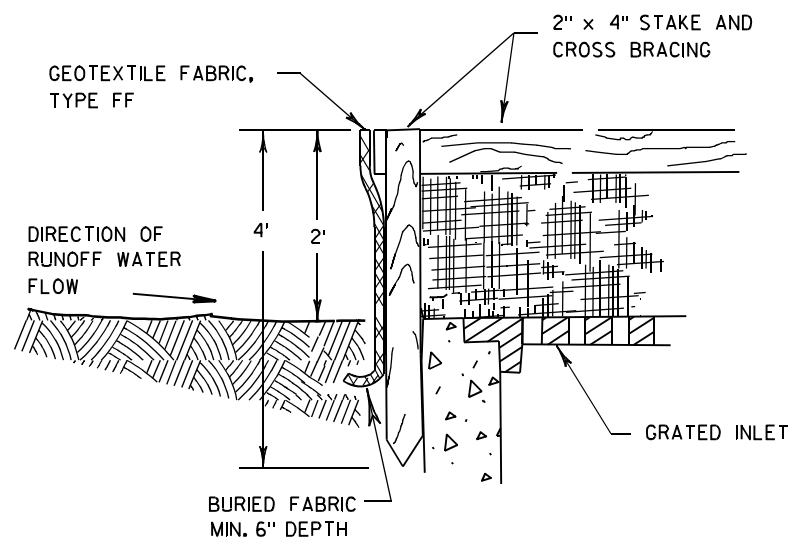
/S/ Beth Canestra
CHIEF ROADWAY DEVELOPMENT ENGINEER



- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1½" X 1½" OF OAK OR HICKORY.
- ④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- ⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED <u>4-29-05</u> DATE	<u>/S/ Beth Cannestra</u> CHIEF ROADWAY DEVELOPMENT ENGINEER



INLET PROTECTION, TYPE A

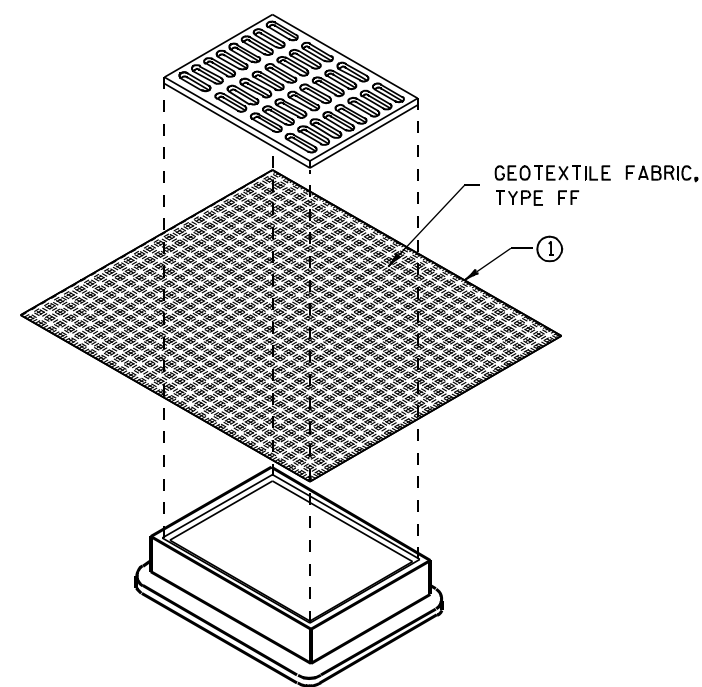
GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

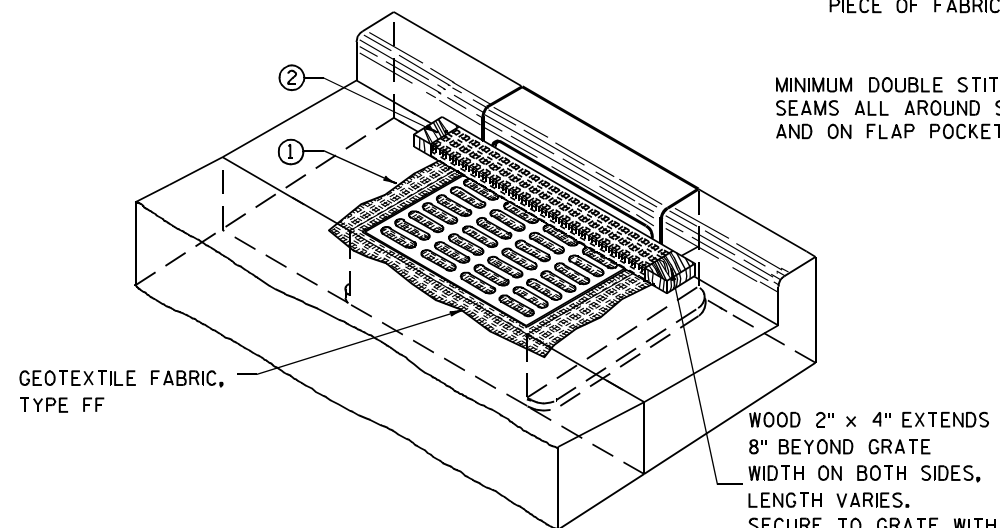
WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- ① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- ② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- ③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



**INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)**

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

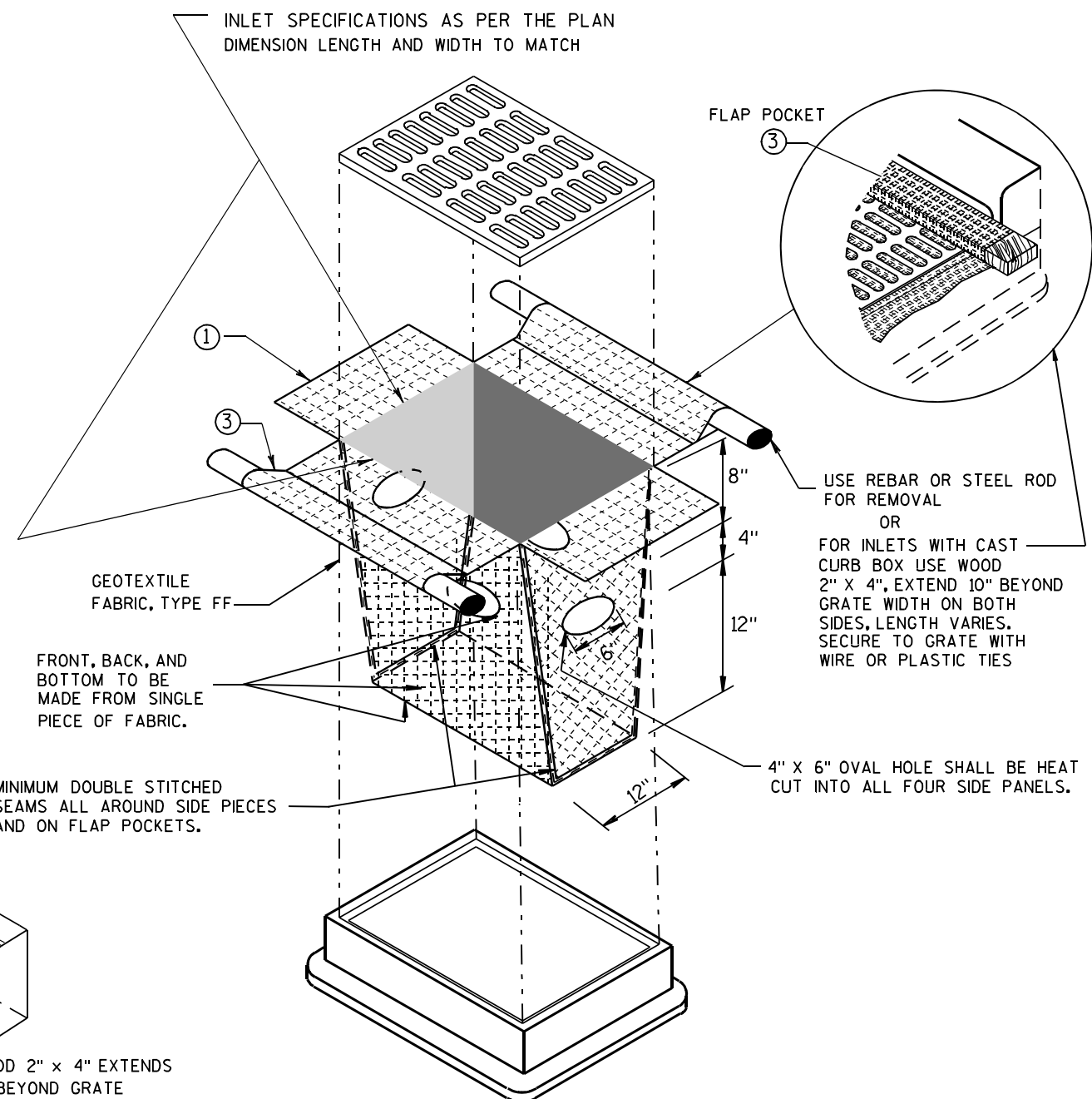
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.



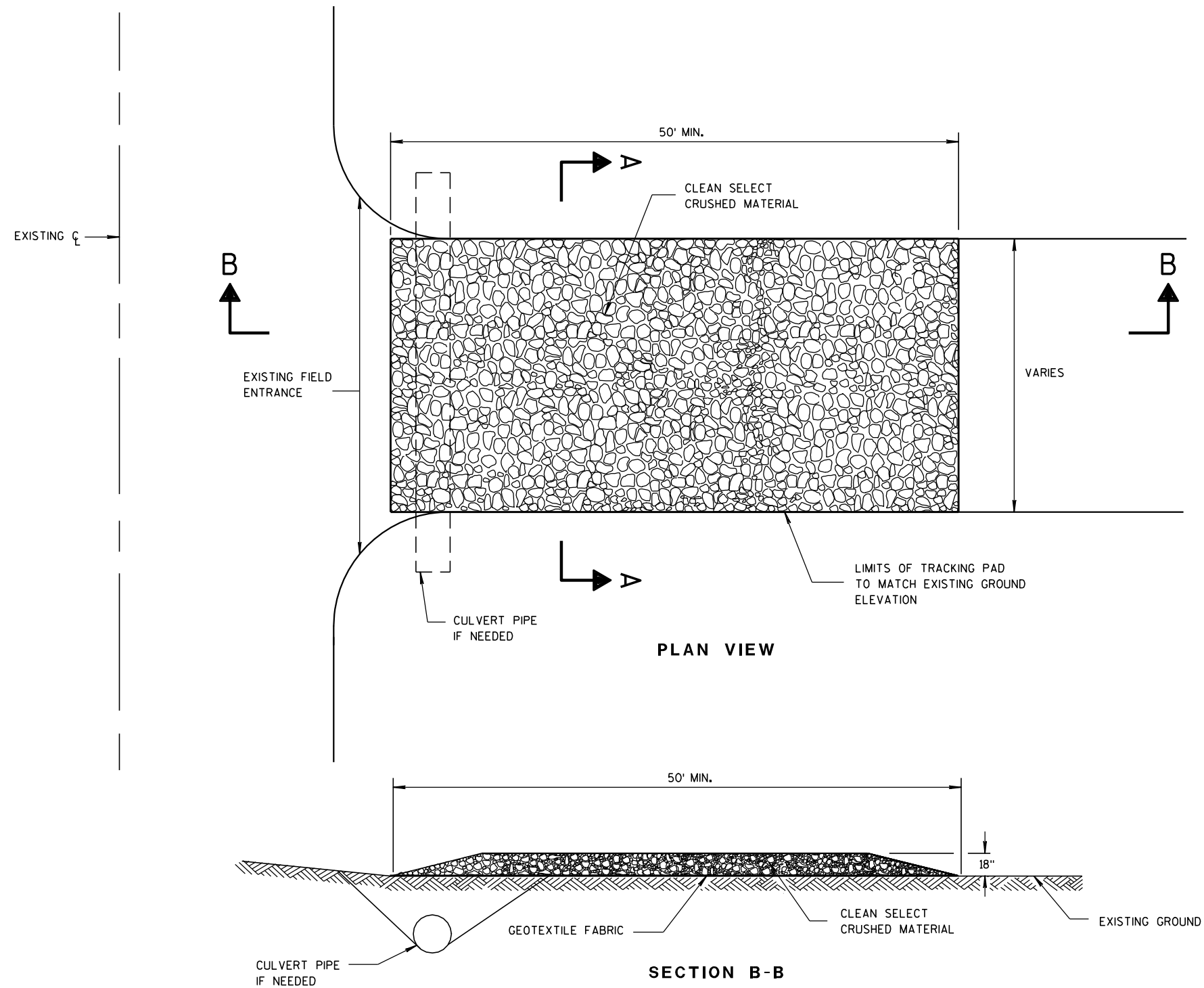
INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE ②)

**INLET PROTECTION
TYPE A, B, C, AND D**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02 /S/ Beth Cannestra
DATE
FHWA CHIEF ROADWAY DEVELOPMENT ENGINEER



TRACKING PAD

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

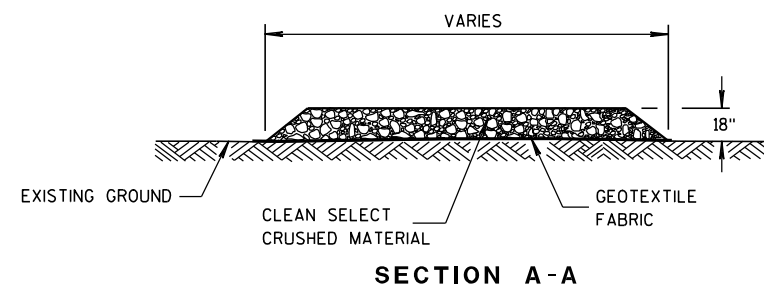
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.

**TRACKING PAD**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/24/2011

DATE

FHWA

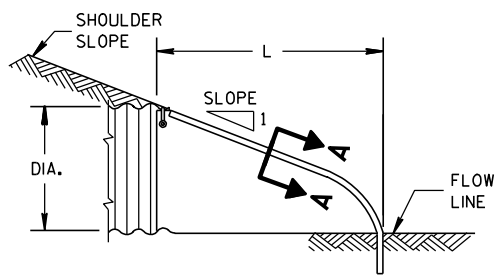
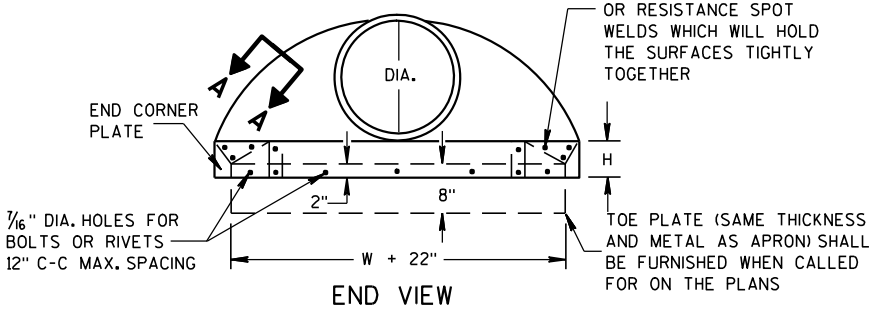
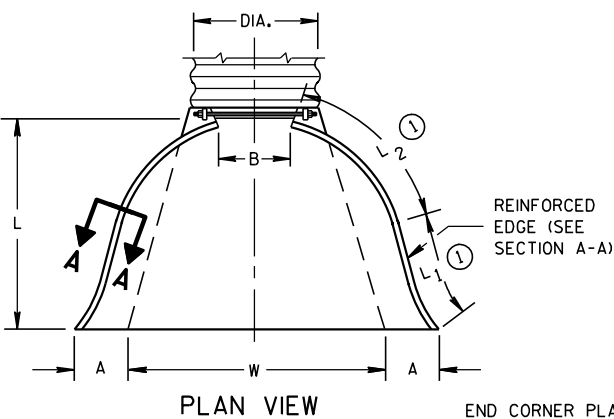
/S/ Jerry H. Zogg

ROADWAY STANDARDS DEVELOPMENT

ENGINEER

METAL APRON ENDWALLS											
PIPE DIA. (IN.)	MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")		
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109x	.105x	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109x	.105x	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109x	.105x	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109x	.105x	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109x	.105x	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109x	.105x	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109x	.105x	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

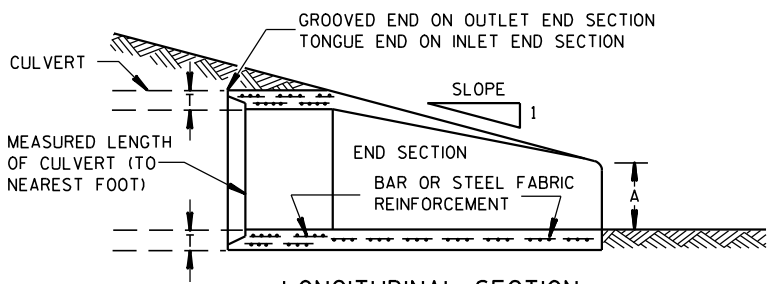
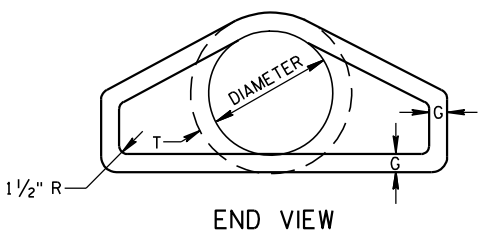
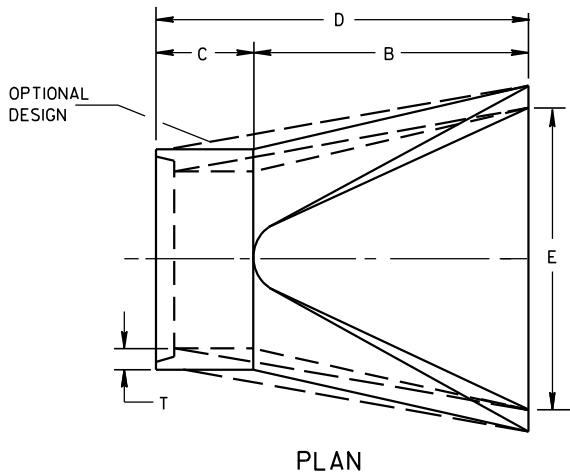
* EXCEPT CENTER PANEL
SEE GENERAL NOTES



METAL ENDWALLS

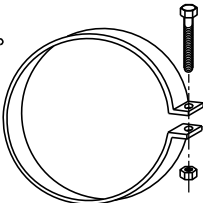
REINFORCED CONCRETE APRON ENDWALLS											
PIPE DIA. (IN.)	DIMENSIONS (Inches)							APPROX. SLOPE			
	T	A	B	C	D	E	G				
12	2	4	24	48 7/8	72 7/8	24	2	3 to 1			
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1			
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1			
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1			
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1			
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1			
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1			
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1			
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1			
48	5	24	72	26	98	84	5	3 to 1			
54	5 1/2	27	65	33 1/4-35	98 1/4-100	90	5 1/2	2 1/2 to 1			
60	6	30-35	60	39	99	96	5	2 to 1			
66	6 1/2	24-30	72-78	21-27	99	102	5 1/2	2 to 1			
72	7	24-36	78	21	99	108	6	2 to 1			
78	7 1/2	24-36	78	21	99	114	6 1/2	2 to 1			
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1			
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1			

* MINIMUM
** MAXIMUM

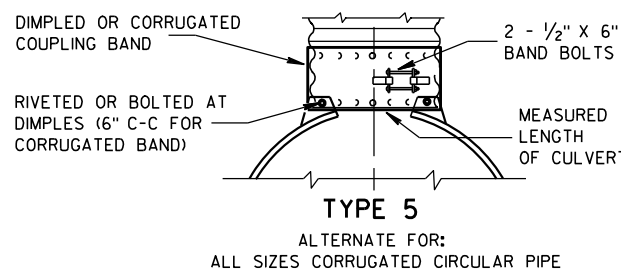
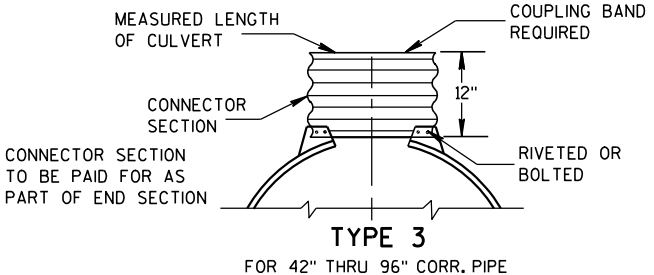
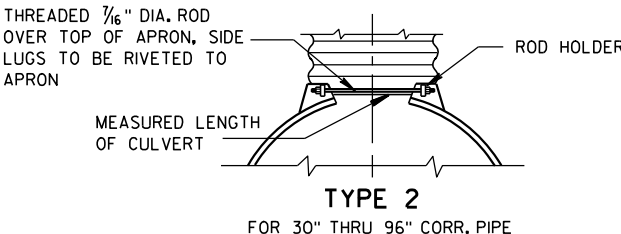
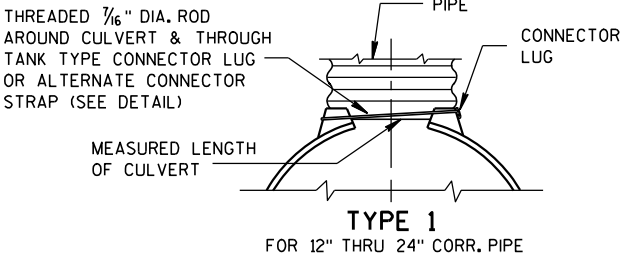


CONCRETE ENDWALLS

1" WIDE, 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT



ALTERNATE FOR TYPE 1 CONNECTION
END SECTION CONNECTOR STRAP



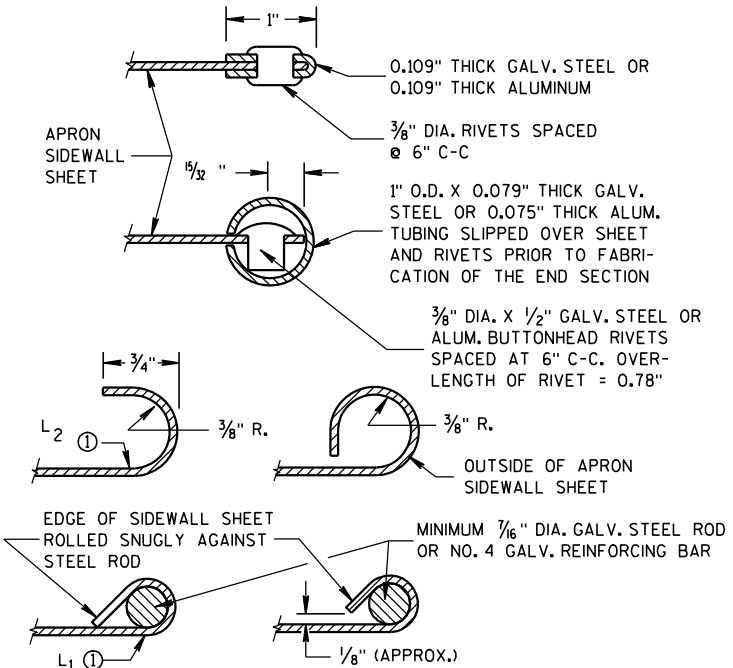
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

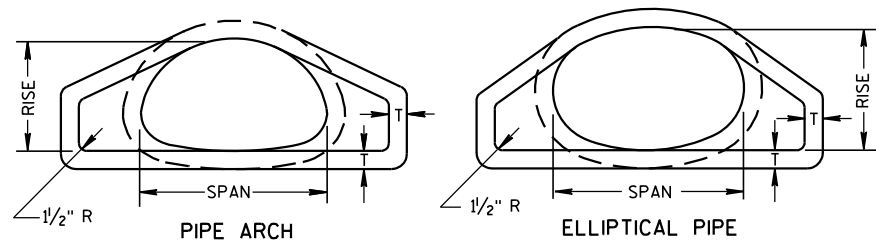
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

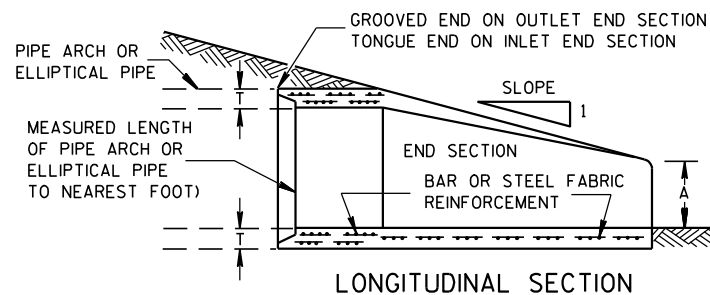
APRON ENDWALLS FOR
CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94
DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

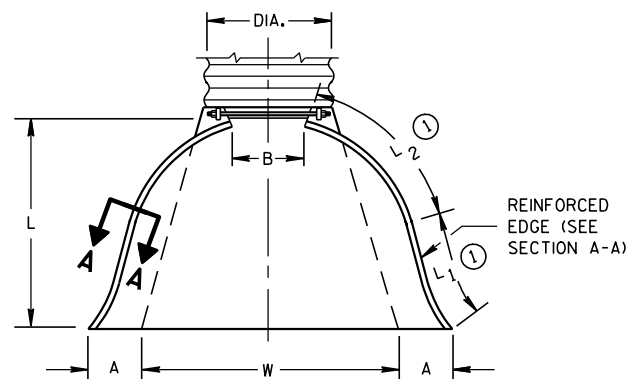


END VIEW



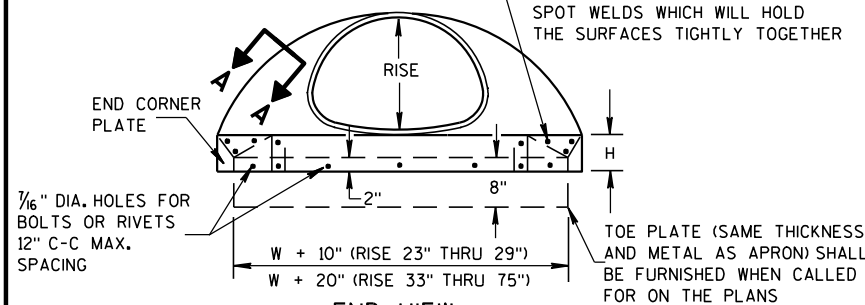
LONGITUDINAL SECTION

CONCRETE ENDWALLS

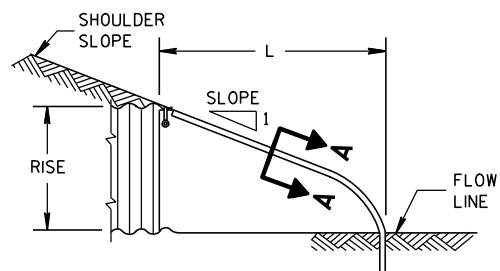
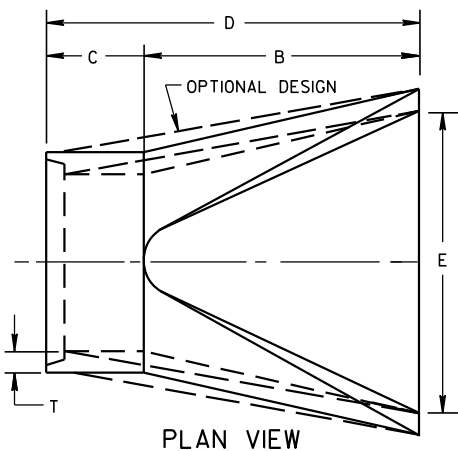


PLAN VIEW

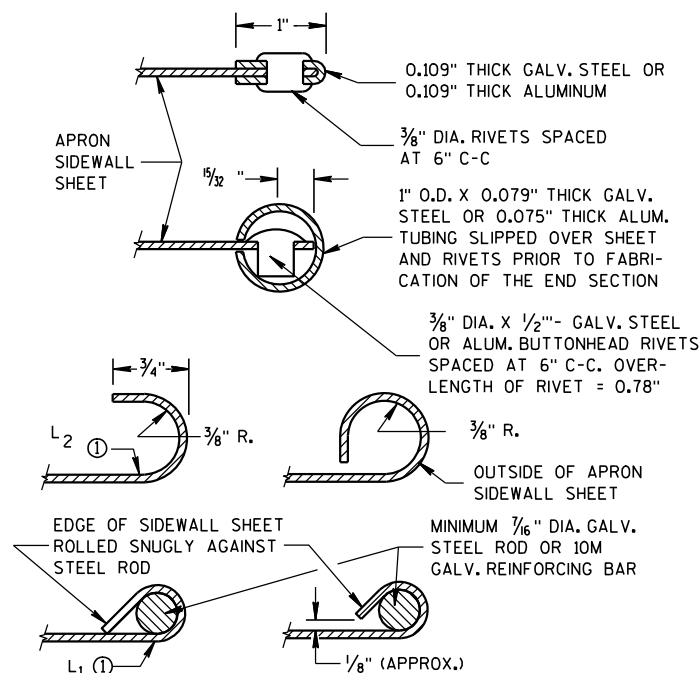
END CORNER PLATES MAY BE FASTENED TO APRON PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD THE SURFACES TIGHTLY TOGETHER



END VIEW

SIDE ELEVATION
METAL ENDWALLS

PLAN VIEW



SECTION A-A

2- 2 2/3" X 1/2" CORRUGATIONS													
EQUIV. DIA. (Inches)	(Inches)		MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	SPAN	RISE	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")		
15	17	13	.064	.060	7	9	6	19	14	16	30	2 1/2 to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19 3/8	36	2 1/2 to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21 3/4	42	2 1/2 to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27 1/2	48	2 1/2 to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37 5/8	60	2 1/2 to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45 3/8	75	2 1/2 to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54 3/4	85	2 1/2 to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2 1/2 to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72 3/4	102	2 1/4 to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82 1/4	114	2 1/4 to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

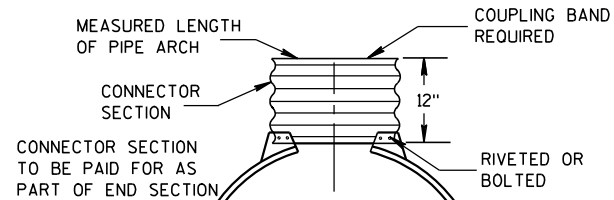
3" X 1" CORRUGATIONS													
EQUIV. DIA. (Inches)	(Inches)		MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	SPAN	RISE	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")		
48	53	41	.109	.105	18	26	12	63	24	72 3/4	90	2 1/2 to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82 1/4	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1 1/2 to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1 1/2 to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1 1/2 to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1 1/2 to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1 1/2 to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1 1/2 to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL
SEE GENERAL NOTES

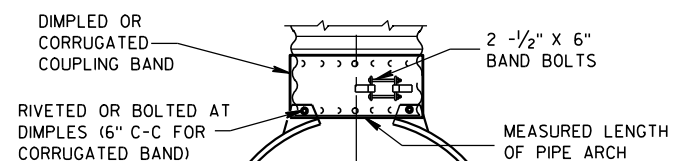
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:
ALL SIZES CORRUGATED PIPE ARCHESNOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL,
AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches)								APPROX. SLOPE
	** SPAN	** RISE	T	A	B	C	D	E	
24	29	18	3	8 1/2	39	33	72	48	3 to 1
30	36	22	3 1/2	9 1/2	50	46	96	60	3 to 1
36	44	27	4	11 1/8	60	36	96	72	3 to 1
42	51	31	4 1/2	15 1/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5 1/2	25 1/2	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28 1/2	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

EQUIV. DIA. (Inches)	DIMENSIONS (Inches)								APPROX. SLOPE
	** SPAN	** RISE	T	A	B	C	D	E	
24	30	19	3 1/4	8 1/2	39	33	72	48	3 to 1
30	38	24	3 3/4	9 1/2	54	18	72	60	3 to 1
36	45	29	4 1/2	11 1/8	60	24	84	72	2 1/2 to 1
42	53	34	5	15 1/4	60	36	96	78	2 1/2 to 1
48	60	38	5 1/2	21	60	36	96	84	2 1/2 to 1
54	68	43	6	25 1/2	60	36	96	90	2 1/2 to 1
60	76	48	6 1/2	30	60	36	96	96	2 1/2 to 1

**NOMINAL SIZE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

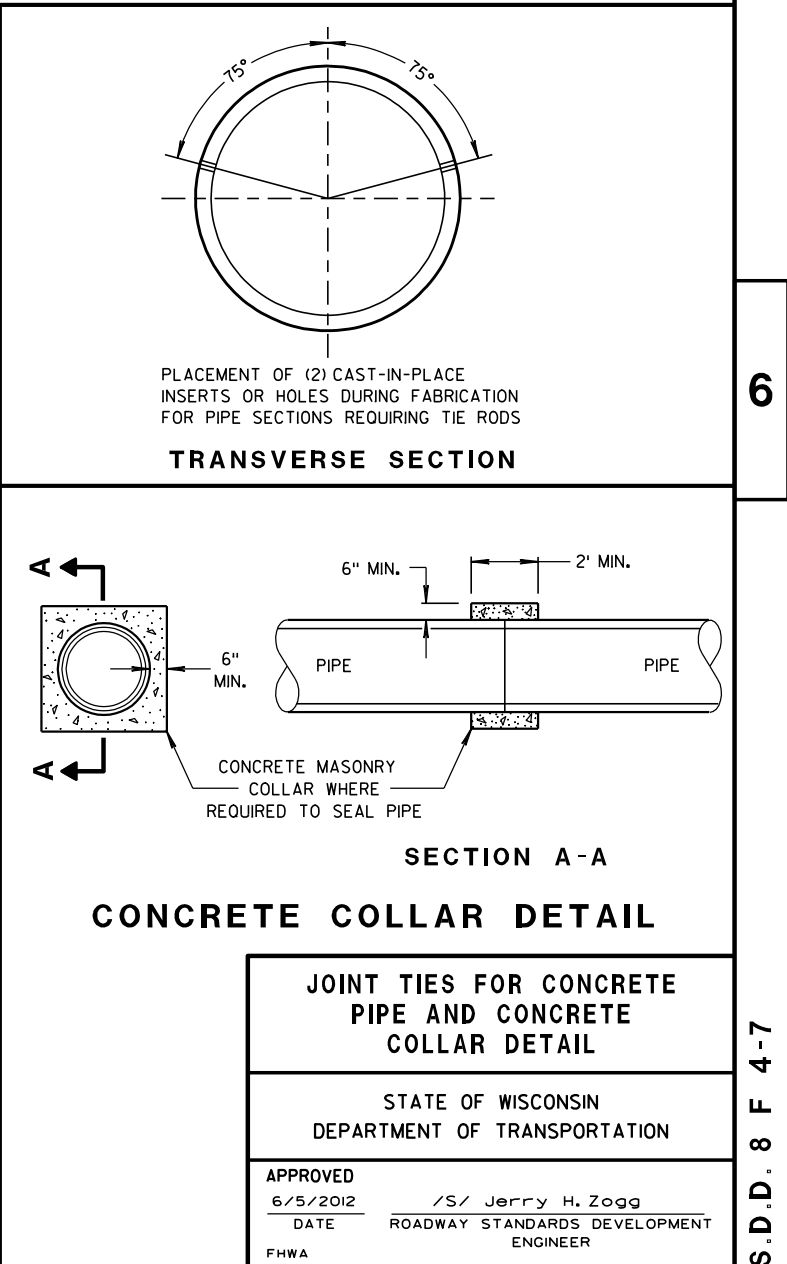
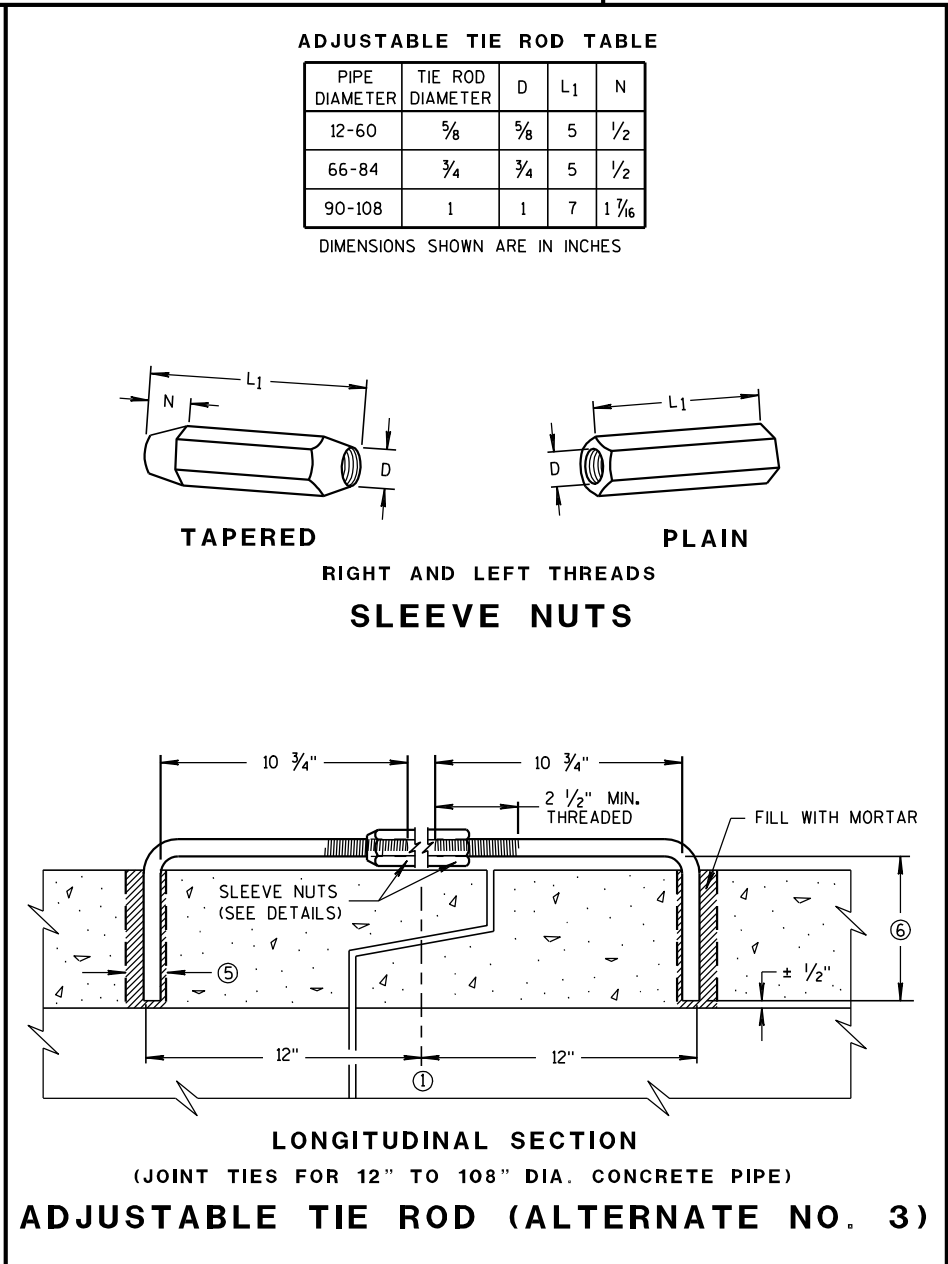
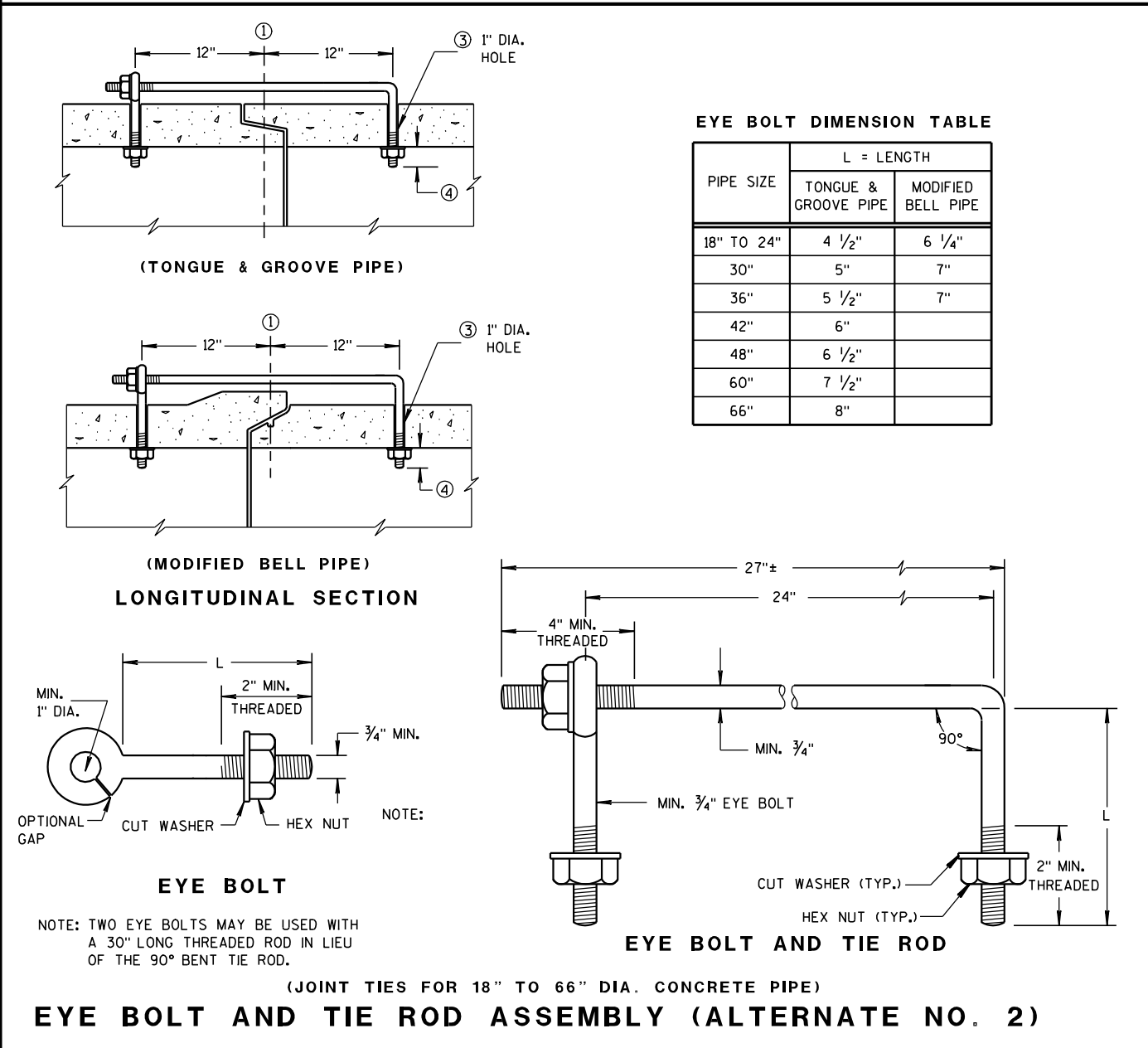
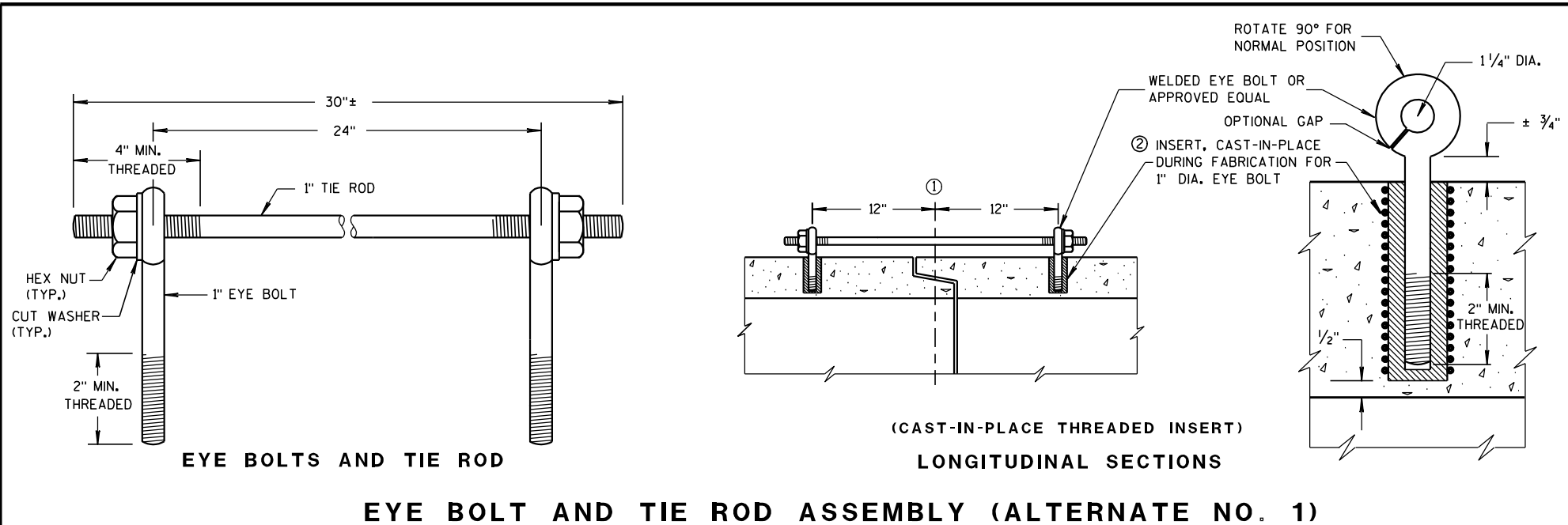
APRON ENDWALLS FOR
PIPE ARCH AND
ELLIPTICAL PIPESTATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

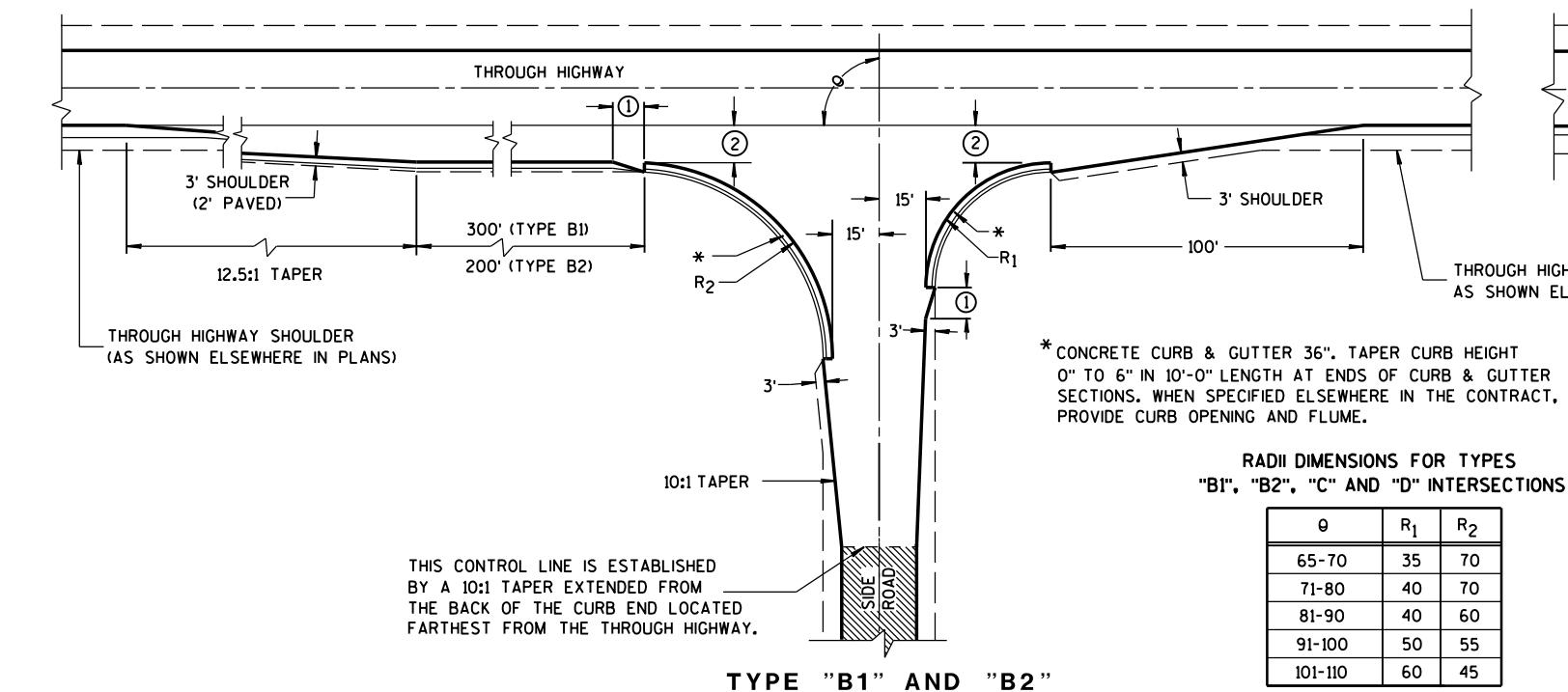
APPROVED

11/30/94
DATE

FHWA

/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER





GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

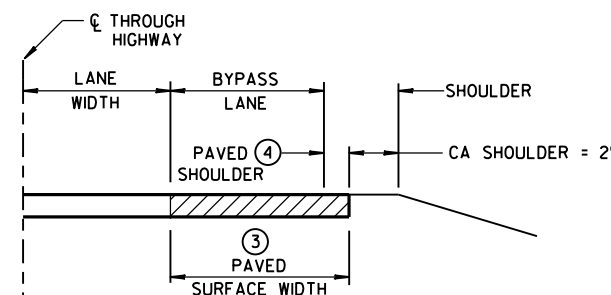
WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

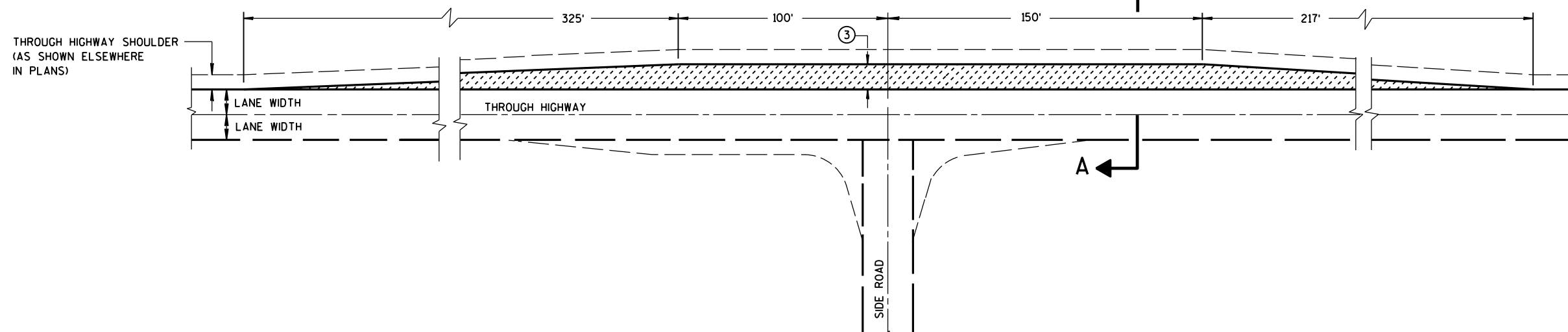
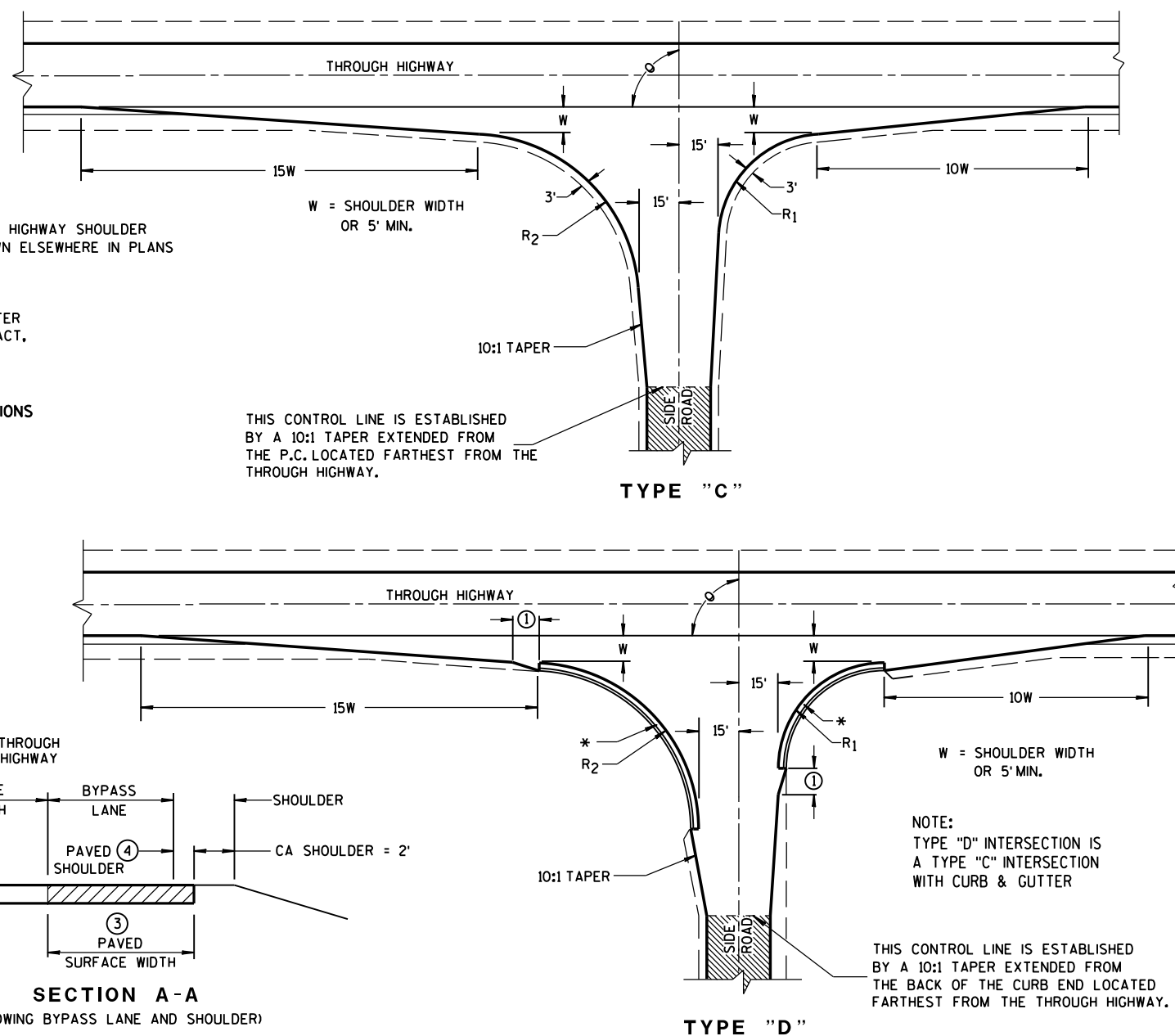
EXISTING PAVED SURFACE

BYPASS LANE

- ① 10-FT TYPICAL.
- ② 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.
- **10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.
- ③ BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 13-FT PLUS PAVED SHOULDER WIDTH.
- ④ BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



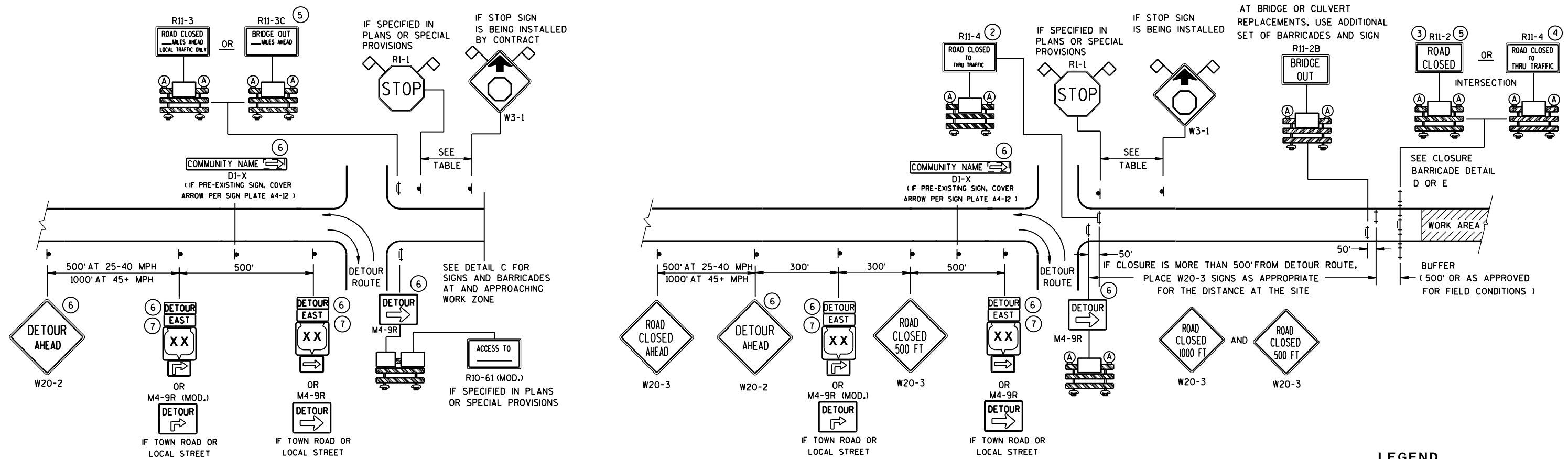
SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)



TEE INTERSECTION BYPASS LANE DETAIL

AT-GRADE SIDE ROAD
INTERSECTION, TYPES "B1", "B2",
"C" AND "D" AND TEE
INTERSECTION BYPASS LANE

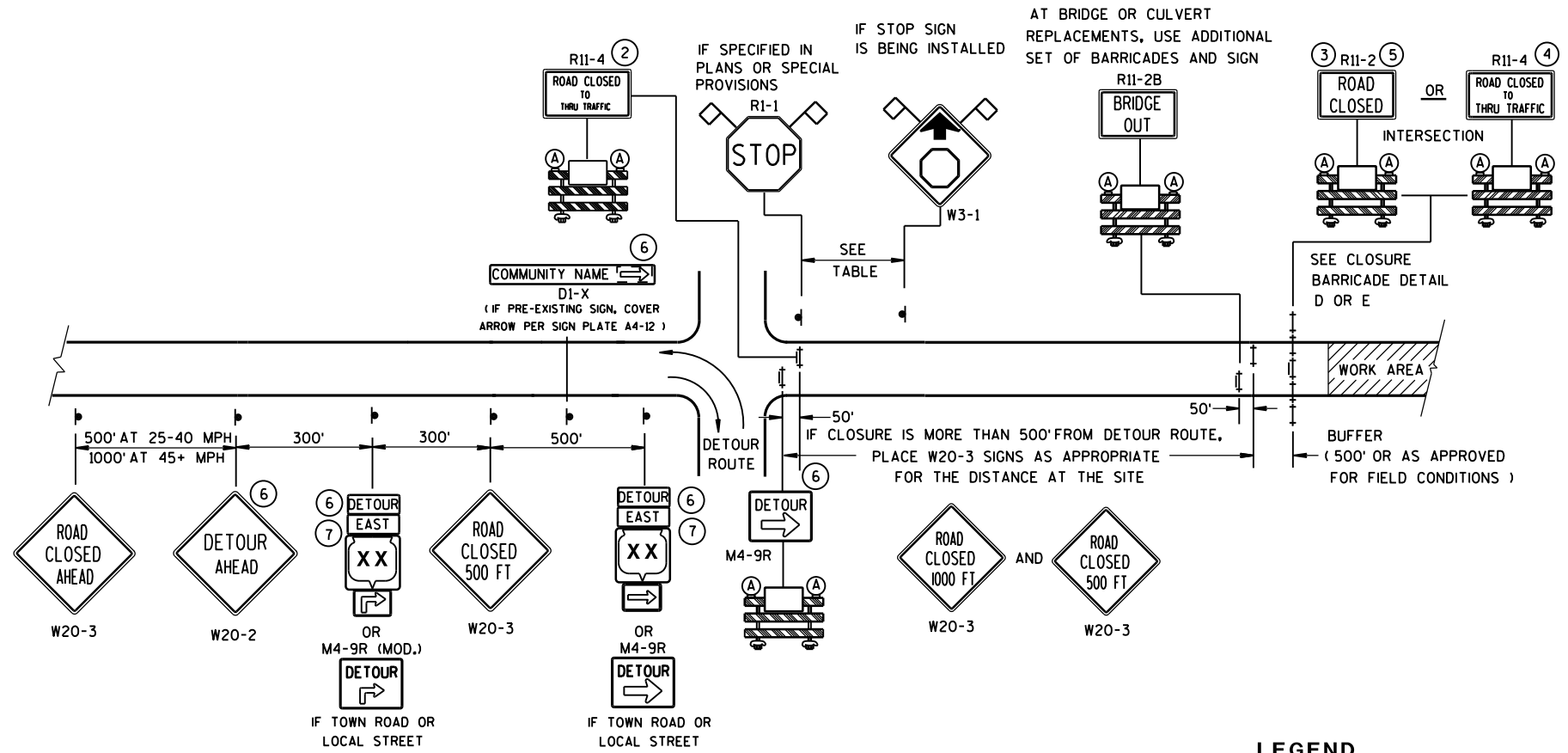
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



DETAIL A

MAINLINE CLOSURE WITH POSTED DETOUR

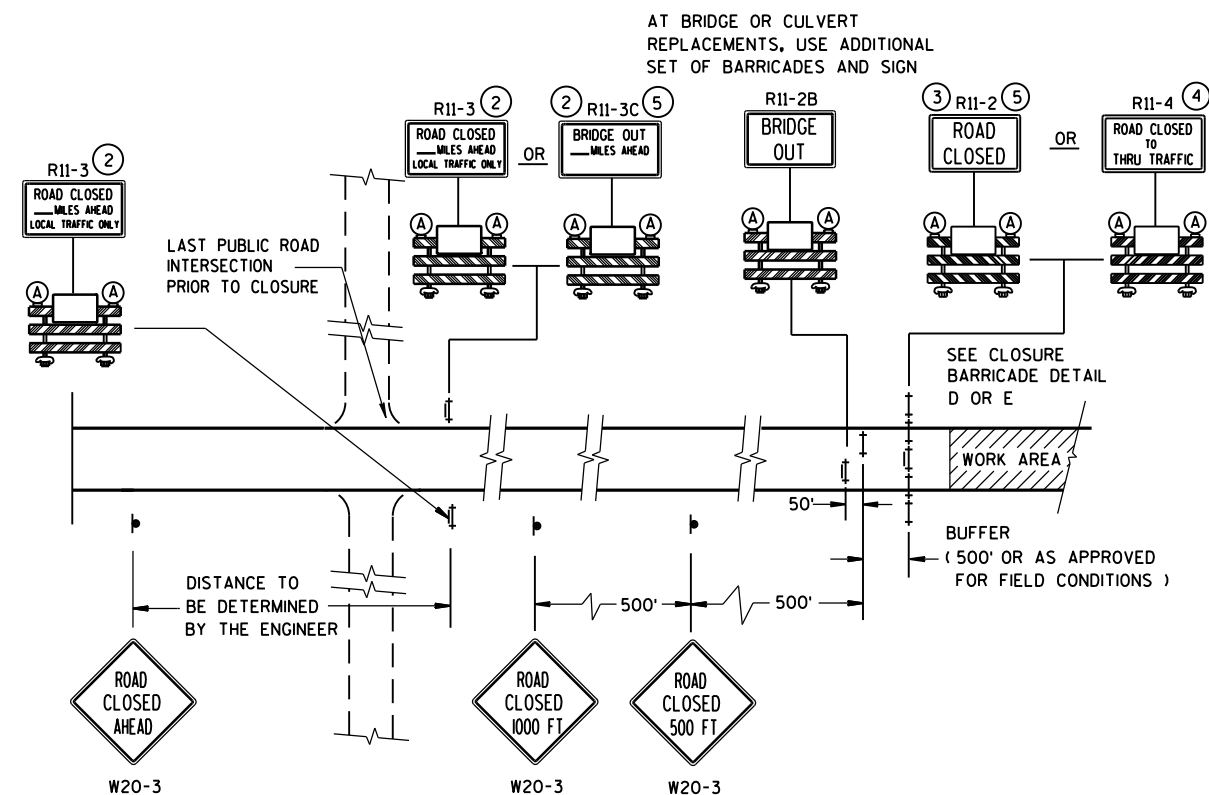
WORK ZONE GREATER THAN 1/2 MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B













MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN 1/2 MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

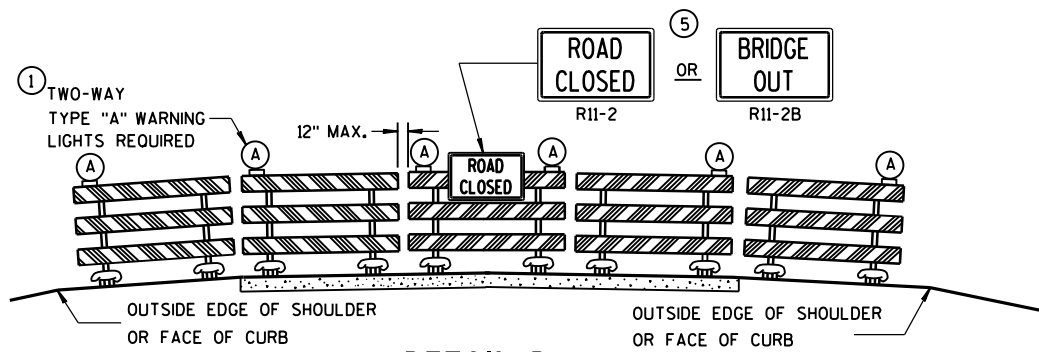
- # LEGEND
-  SIGN ON PERMANENT SUPPORT
-  TYPE III BARRICADE
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  TYPE "A" WARNING LIGHT (FLASHING)
-  WORK AREA
-  M4-8
M3-X
-  OR  OR 
M1-4 M1-5A M1-6
-  OR 
M05-1 M06-1
-  FLAGS, 16" X 16" MIN., (ORANGE)

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES (1) THROUGH (7)

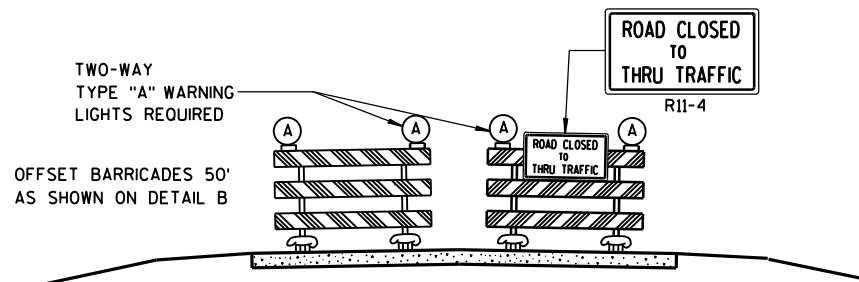
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

8/2013 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

GENERAL NOTES

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

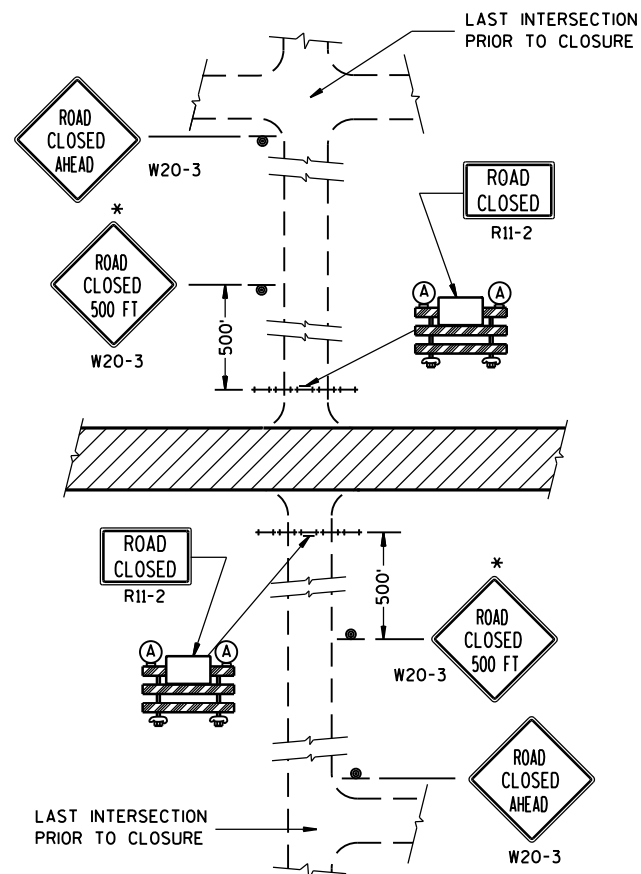
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

- 1 TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).
- 2 THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- 3 FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
- 4 FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.
- 5 FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.
- 6 INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- 7 "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

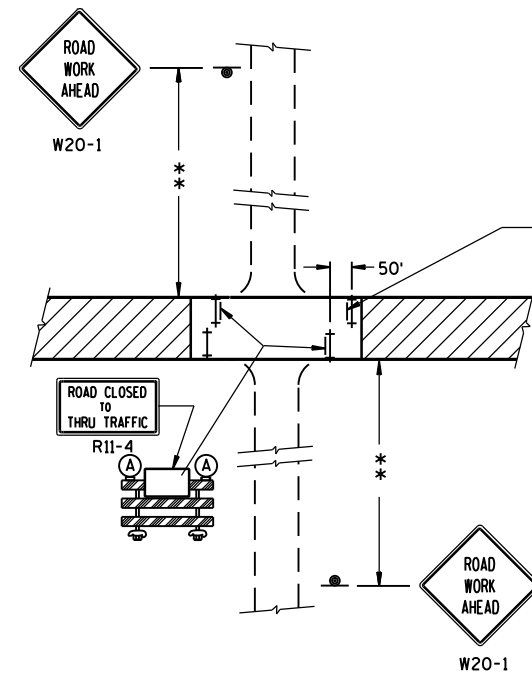
**BARRICADES AND SIGNS
FOR
MAINLINE CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

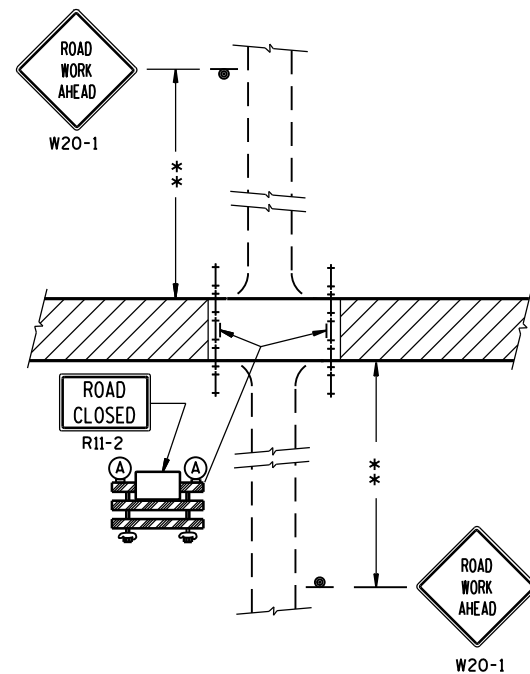
8/2013 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA



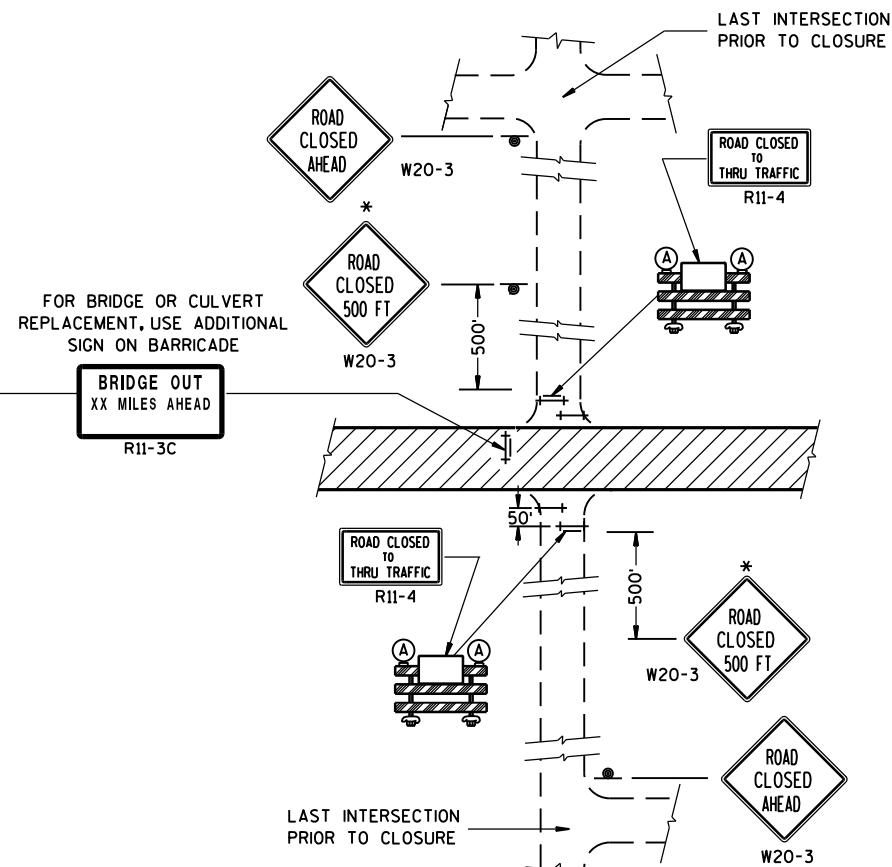
DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS).



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT).



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11-2 SHALL BE 48" X 30".

R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- ⊙ SIGN ON PERMANENT SUPPORT
- ⊥ TYPE III BARRICADE
- ⊥ TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- ▨ WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

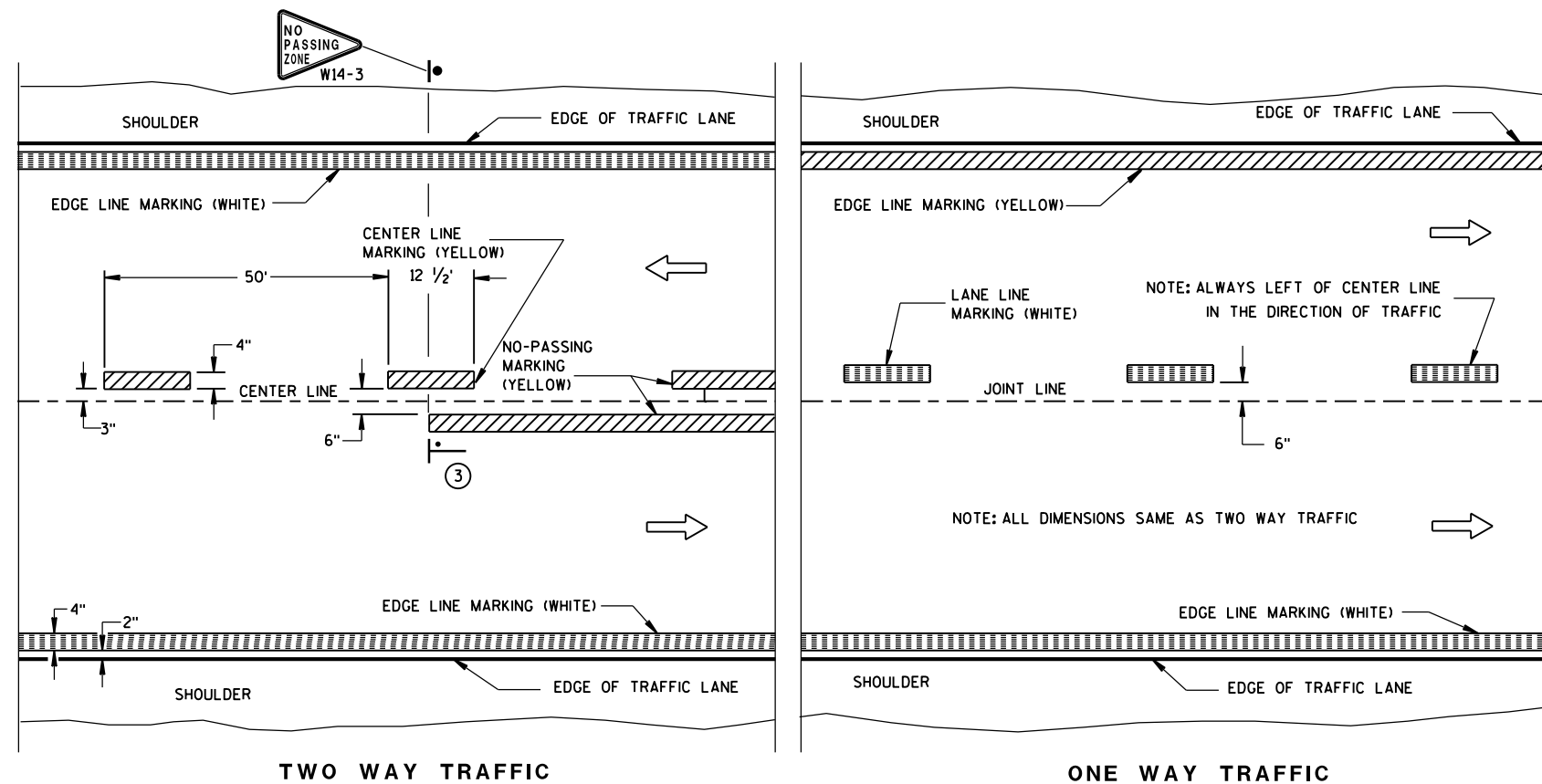
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

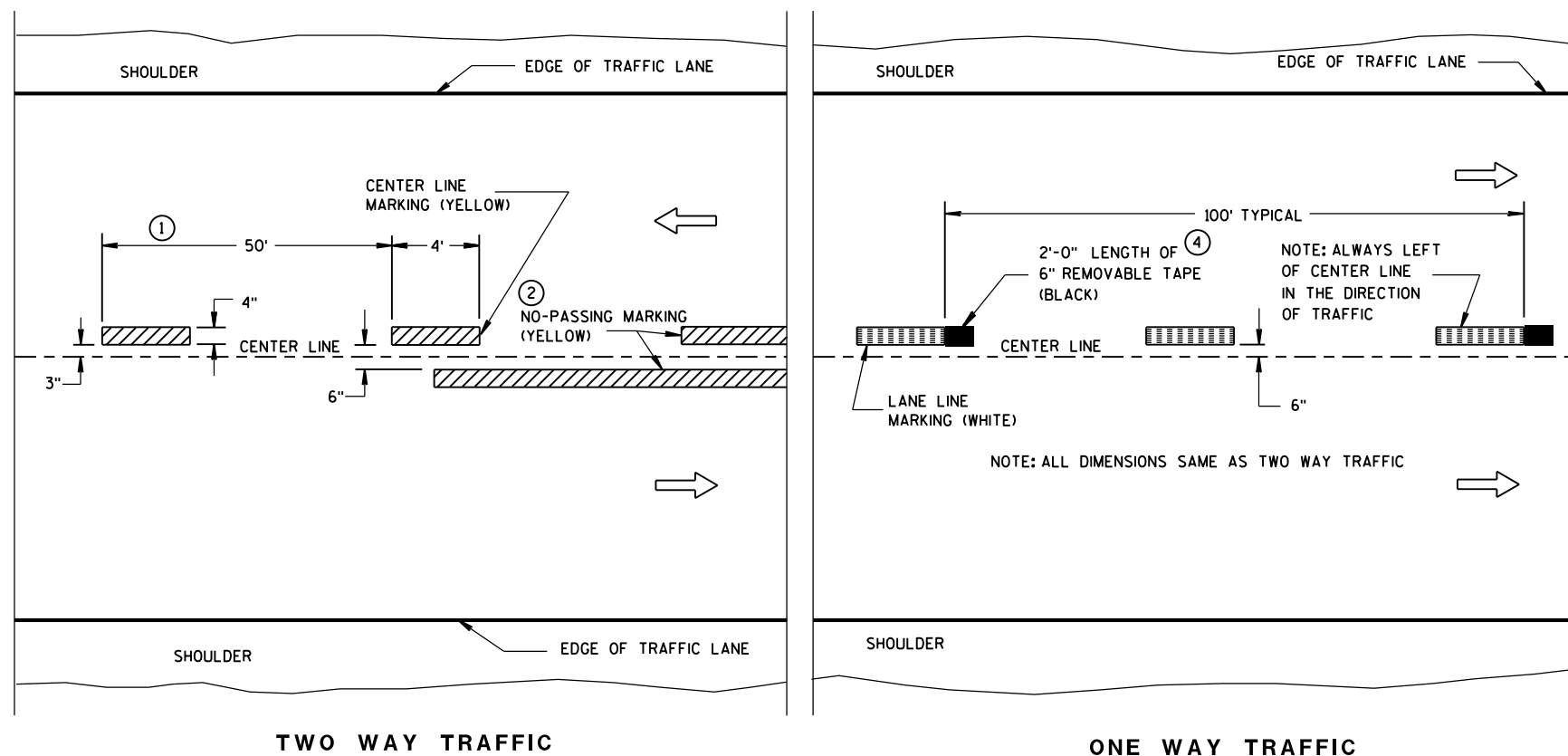
8/2013 /S/ Travis Feltes

DATE STATE TRAFFIC ENGINEER OF DESIGN

FHWA



PERMANENT PAVEMENT MARKING




TEMPORARY (INTERMEDIATE) PAVEMENT MARKING
(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

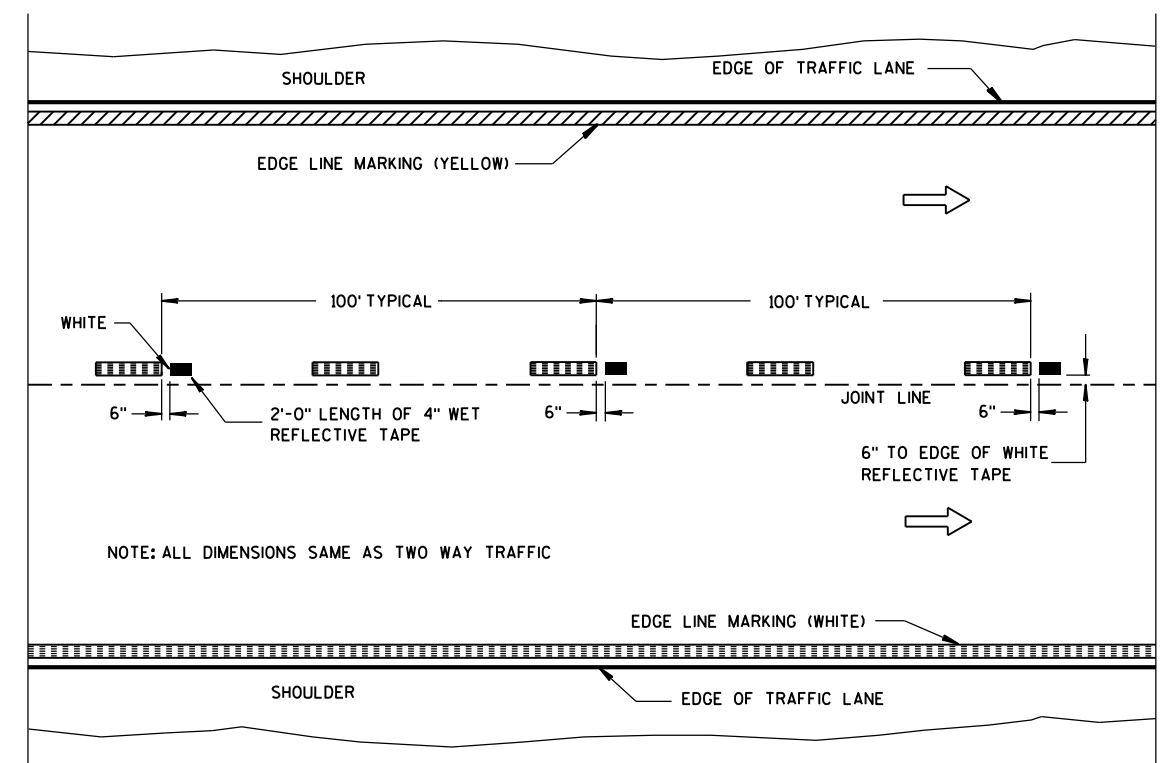
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

- ① HALF CYCLE LENGTHS (25'±) WITH 2" MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
- ② NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
- ③ NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
- ④ CONCRETE ONLY.

NOTE

ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

 "T" MARKING

● POST MOUNTED SIGN

PAVEMENT MARKING
(MAINLINE)

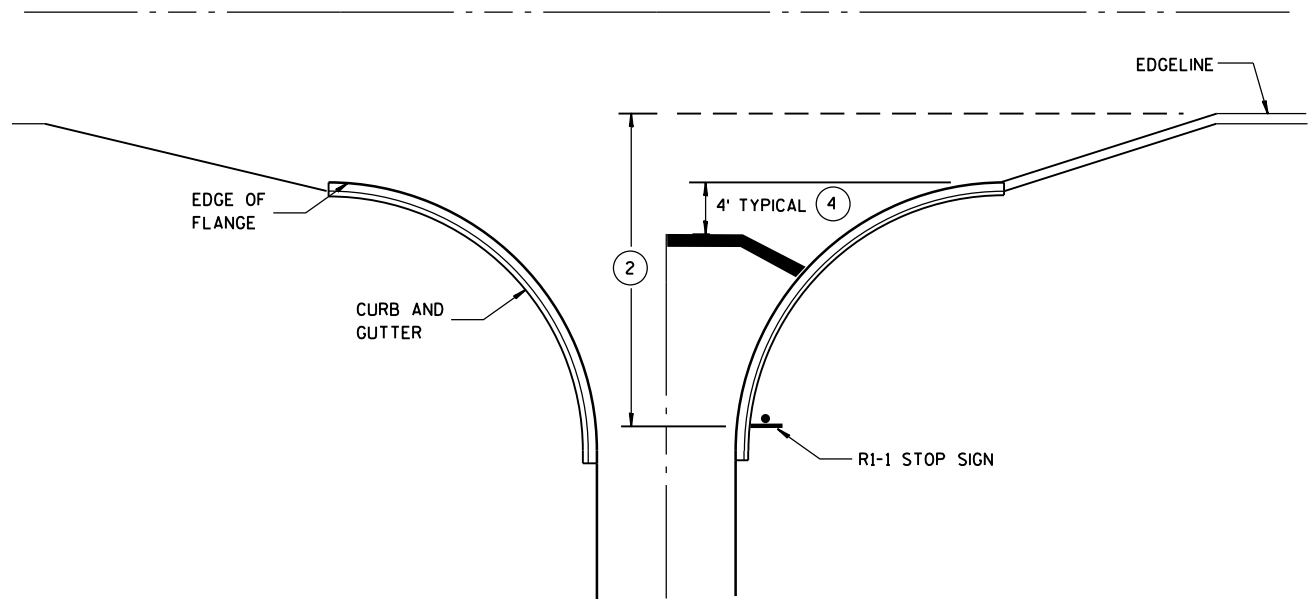
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

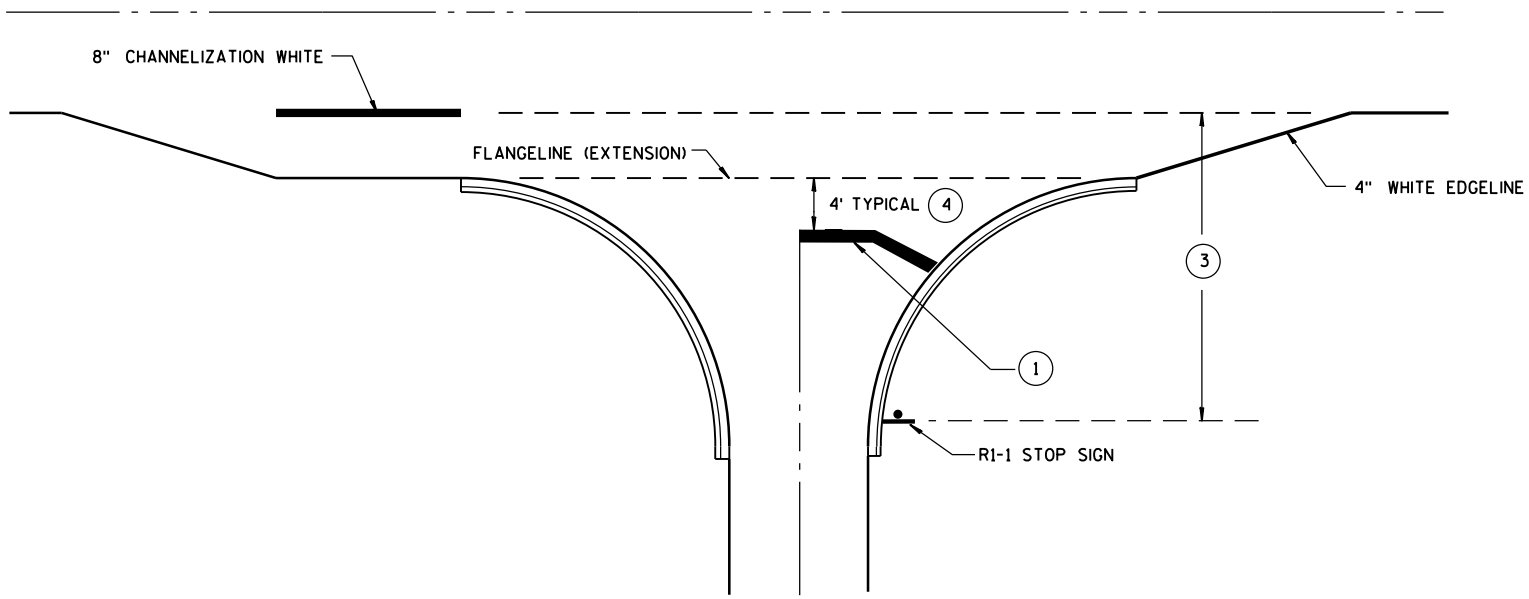
5-13-2013
DATE

FHWA

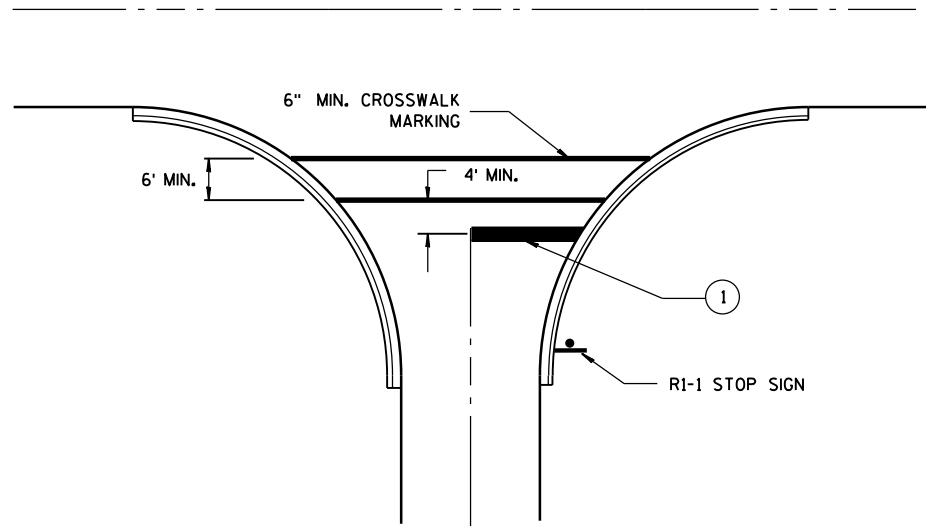
/S/ Travis Feltes
STATE TRAFFIC ENGINEER



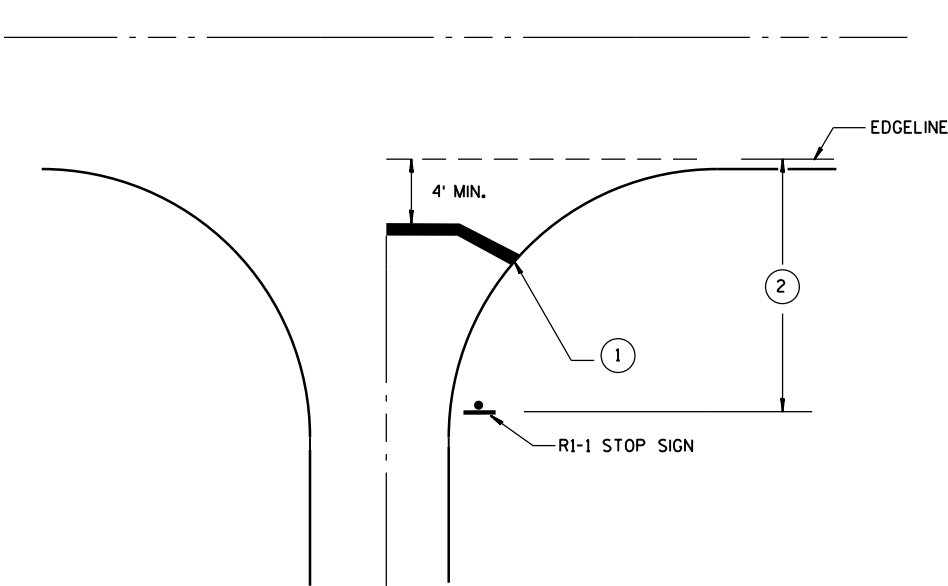
TYPICAL STOP LINE PAVEMENT MARKING
WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING
FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING
FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING
WITHOUT CURB AND GUTTER

GENERAL NOTES

- ① 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
- ② IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGE LINE THAN NO STOP LINE IS REQUIRED.
- ③ IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
- ④ MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES.

STOP LINE AND CROSSWALK
PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/30/2013 DATE /S/ Travis Feltz
STATE TRAFFIC ENGINEER
FHWA

URBAN AREA

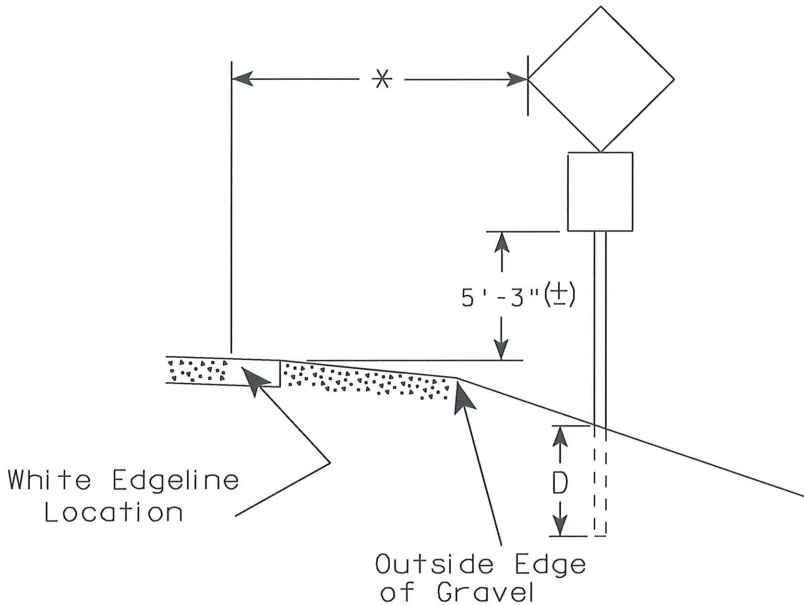
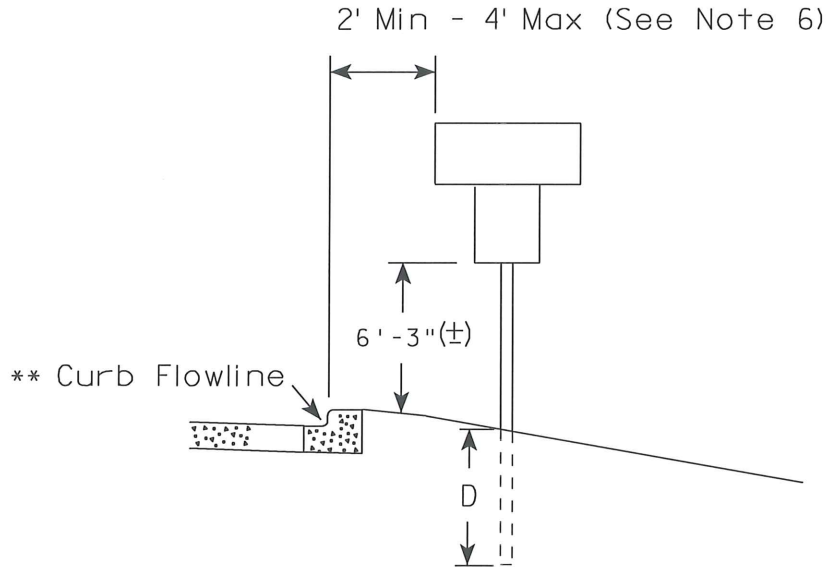
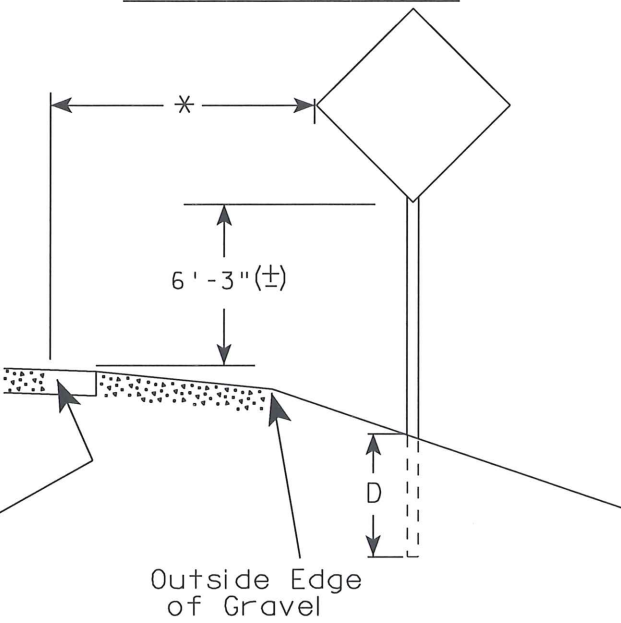
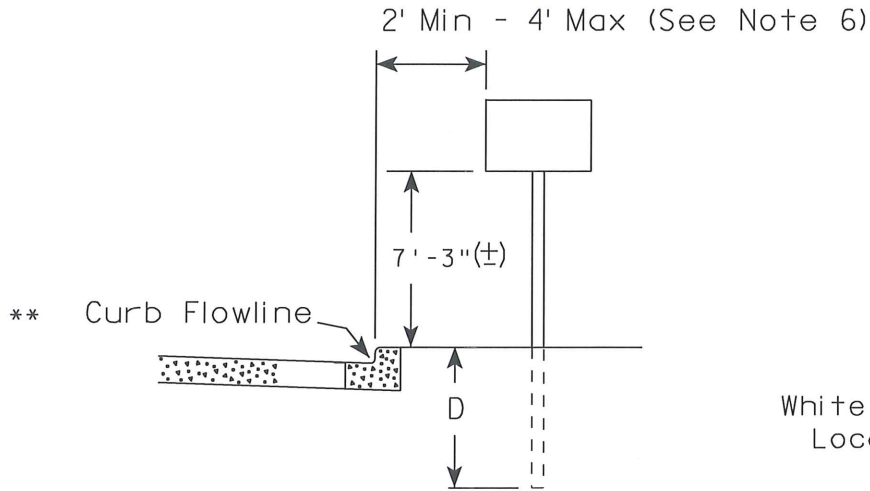
GENERAL NOTES

- 1. Signs wider than 4 feet, 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on barrier wall, see A4-10 sign plate.
- 3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
- 5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The (±) tolerance for mounting height is 3 inches.
- 8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (±).

RURAL AREA (See Note 2)

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'



** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 9/30/13 PLATE NO. A4-3.18

GENERAL NOTES

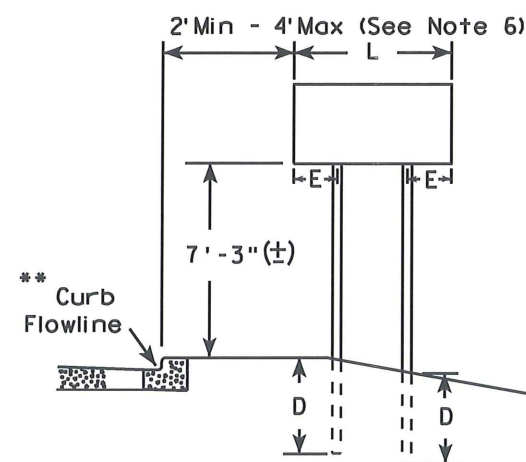
- For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- See tables below for required number of posts.
- For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
- The (±) tolerance for mounting height is 3 inches.
- Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
- Offset distance shall be consistent with existing signs or consistent throughout length of project.
- Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
- The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

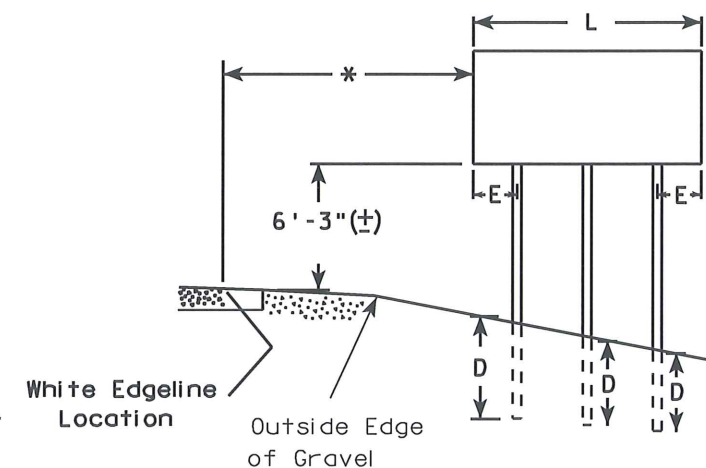
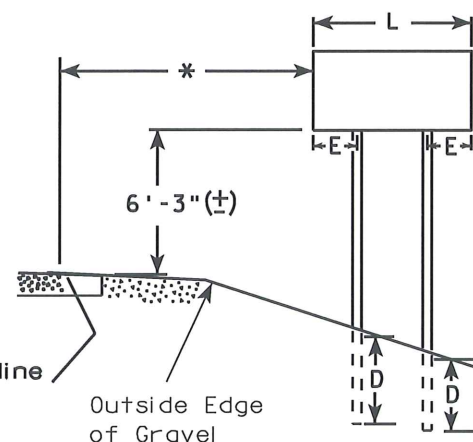
** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width or less than 20 S.F. in area.

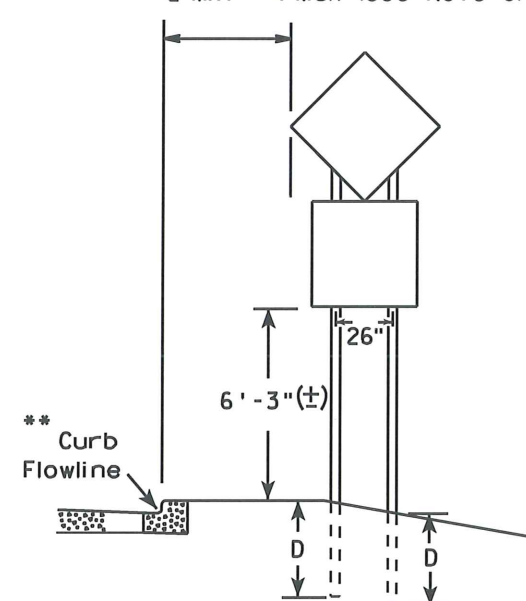
URBAN AREA



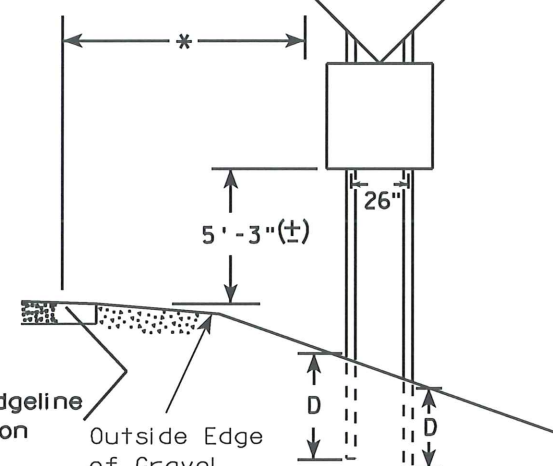
RURAL AREA (See Note 3)



2' Min - 4' Max (See Note 6)



48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)

L	E
Greater than 48" Less than 60"	12"
60" to 120"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)

L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)

L	E
168" and greater	12"

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 4/29/14 PLATE NO. A4-4.13

PROJECT NO: 5605-00-70

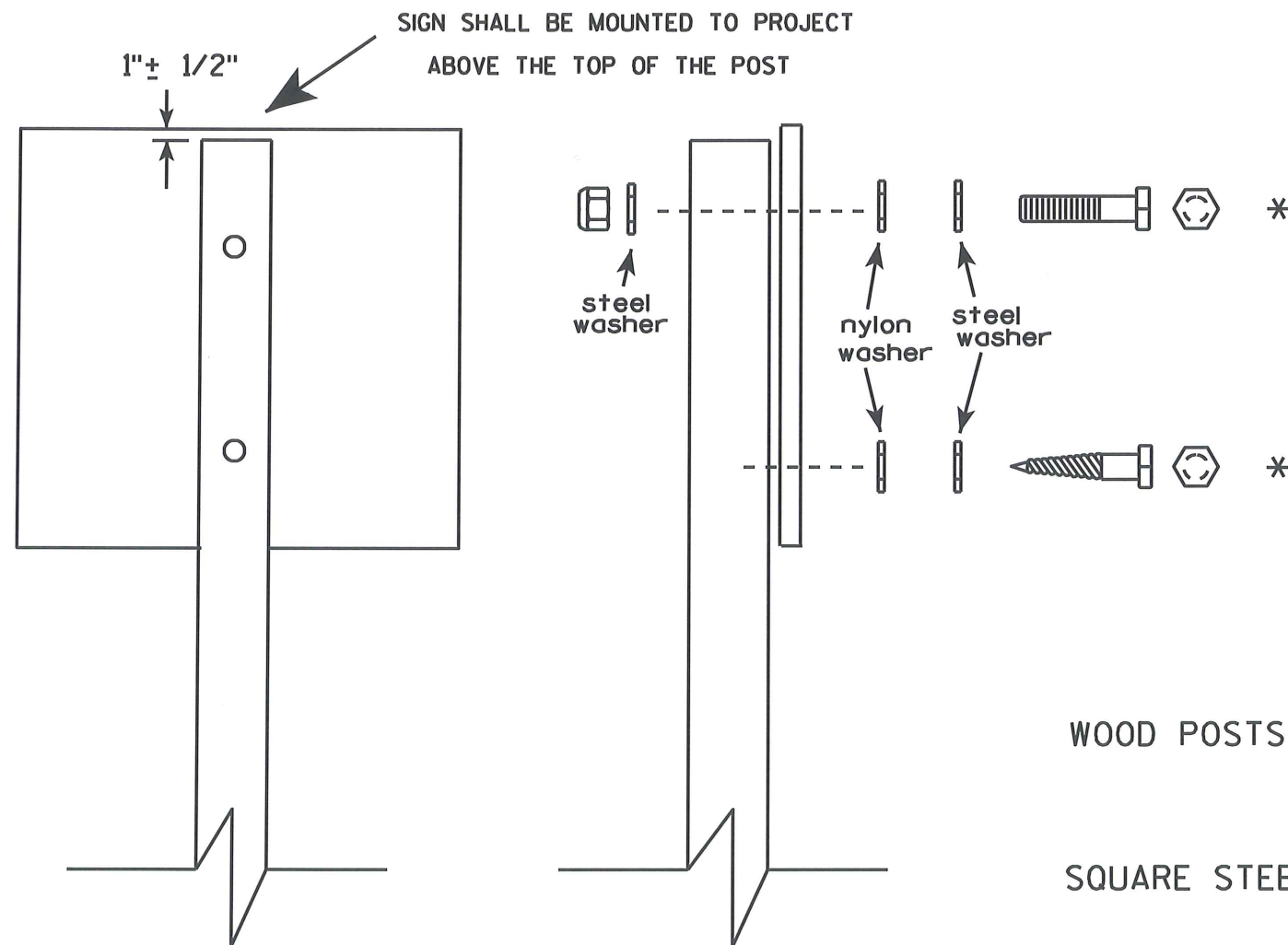
HWY: CTH E

COUNTY: GREEN

SIGN PLATES

SHEET NO:

E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

- Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
- Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - $\frac{3}{8}$ " X 3"

MACHINE BOLTS - $\frac{5}{16}$ " X 6-1/2" or 7" Length w/ nuts

SQUARE STEEL POSTS (2" x 2")

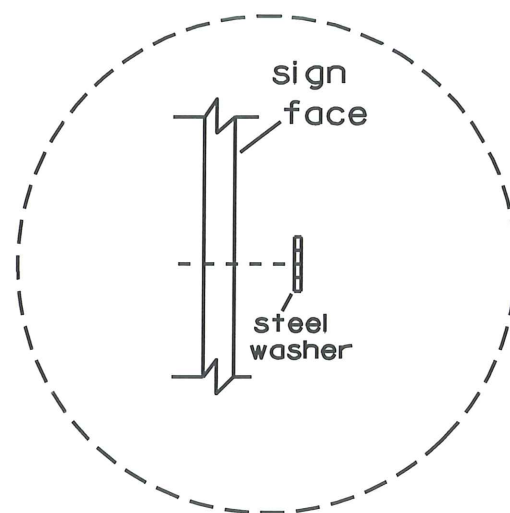
MACHINE BOLTS - $\frac{3}{8}$ " X 3-1/4" Length w/ nuts

RIVETS - $\frac{9}{32}$ " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL

1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 NYLON for all Type H signs.



Washer Placement when Sign Has Other Than Type H or Type F Face

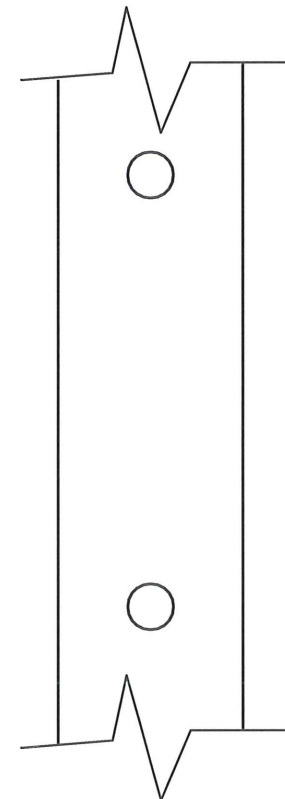
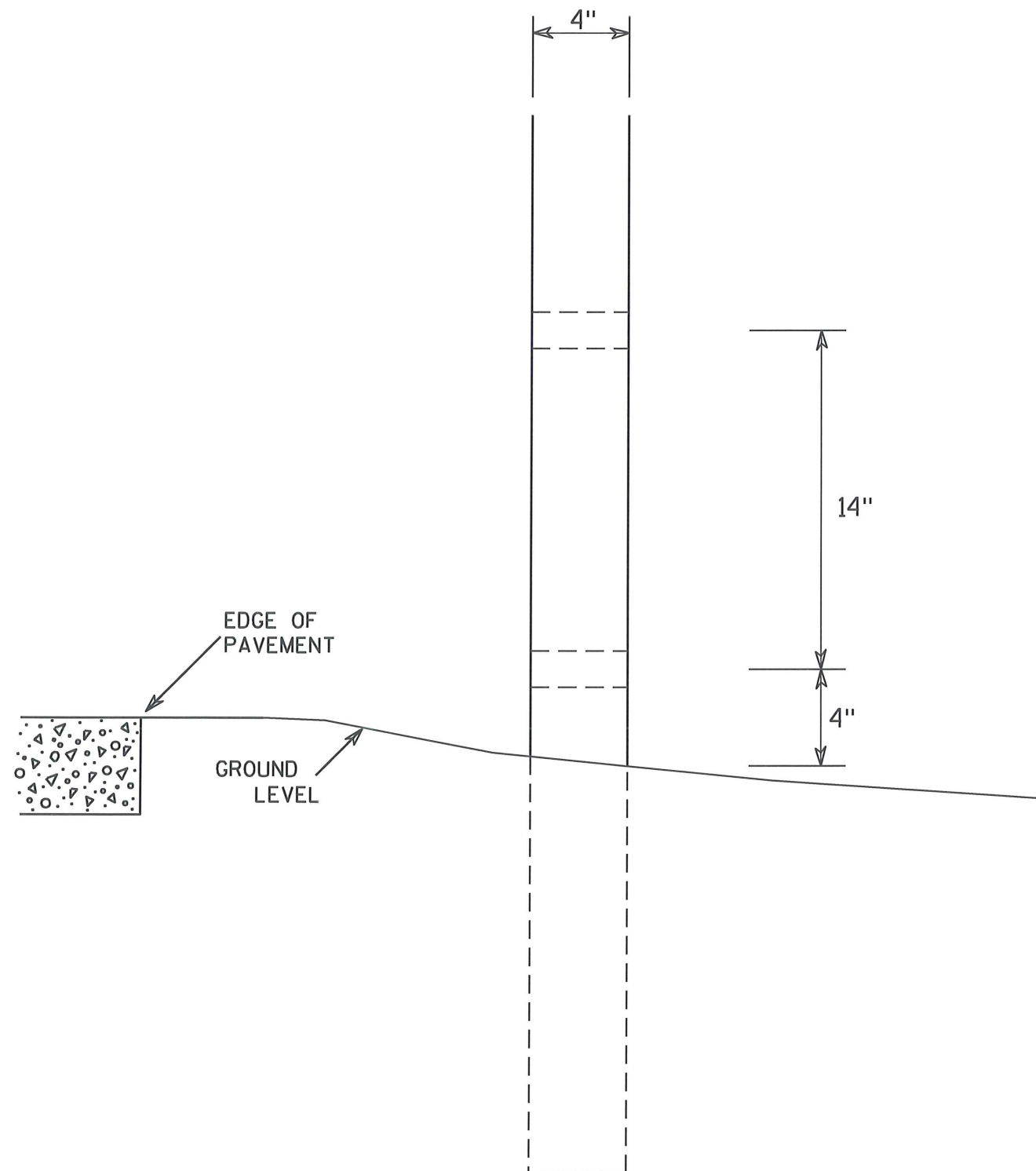
* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 3/23/10 PLATE NO. A4-8.7



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Chester J. Spang
for State Traffic Engineer

DATE 3/27/97

PLATE NO. A4-11.2

PROJECT NO: 5605-00-70

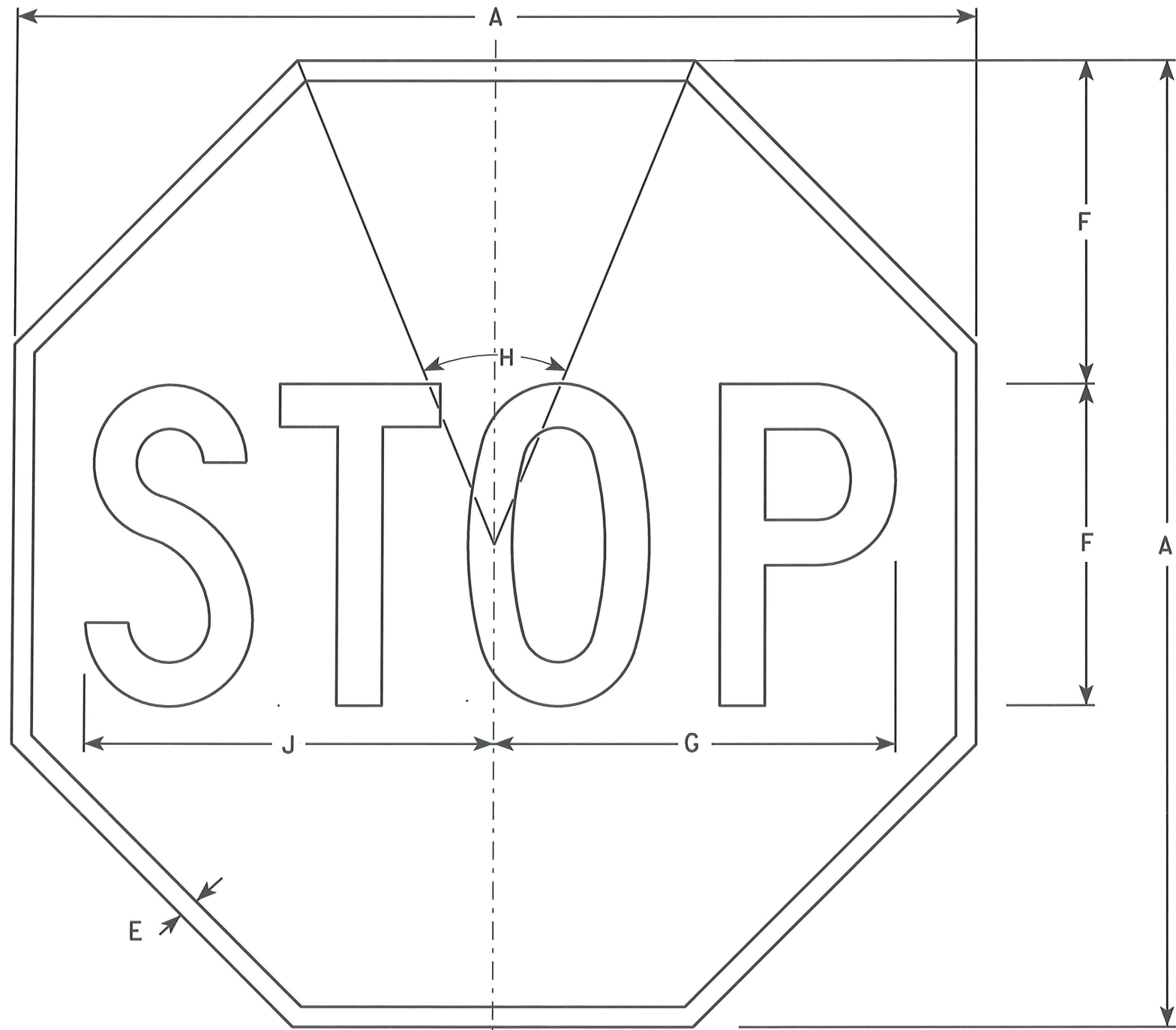
HWY: CTH E

COUNTY: GREEN

SIGN PLATES

SHEET NO:

E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Red
Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24				$\frac{3}{8}$	8	10	45°		10 $\frac{1}{4}$																	3.31
2S	30				$\frac{5}{8}$	10	12 $\frac{1}{2}$	45°		12 $\frac{3}{4}$																	5.18
2M	36				$\frac{3}{4}$	12	15	45°		15 $\frac{3}{8}$																	7.46
3	36				$\frac{3}{4}$	12	15	45°		15 $\frac{3}{8}$																	7.46
4	48				1	16	20	45°		20 $\frac{1}{2}$																	13.25
5	48				1	16	20	45°		20 $\frac{1}{2}$																	13.25
6	18				$\frac{3}{8}$	6	7 $\frac{3}{4}$	45°		7 $\frac{3}{4}$																	1.86
7	12				$\frac{1}{4}$	4	5	45°		5 $\frac{1}{8}$																	0.78

STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1.12

PROJECT NO: 5605-00-70

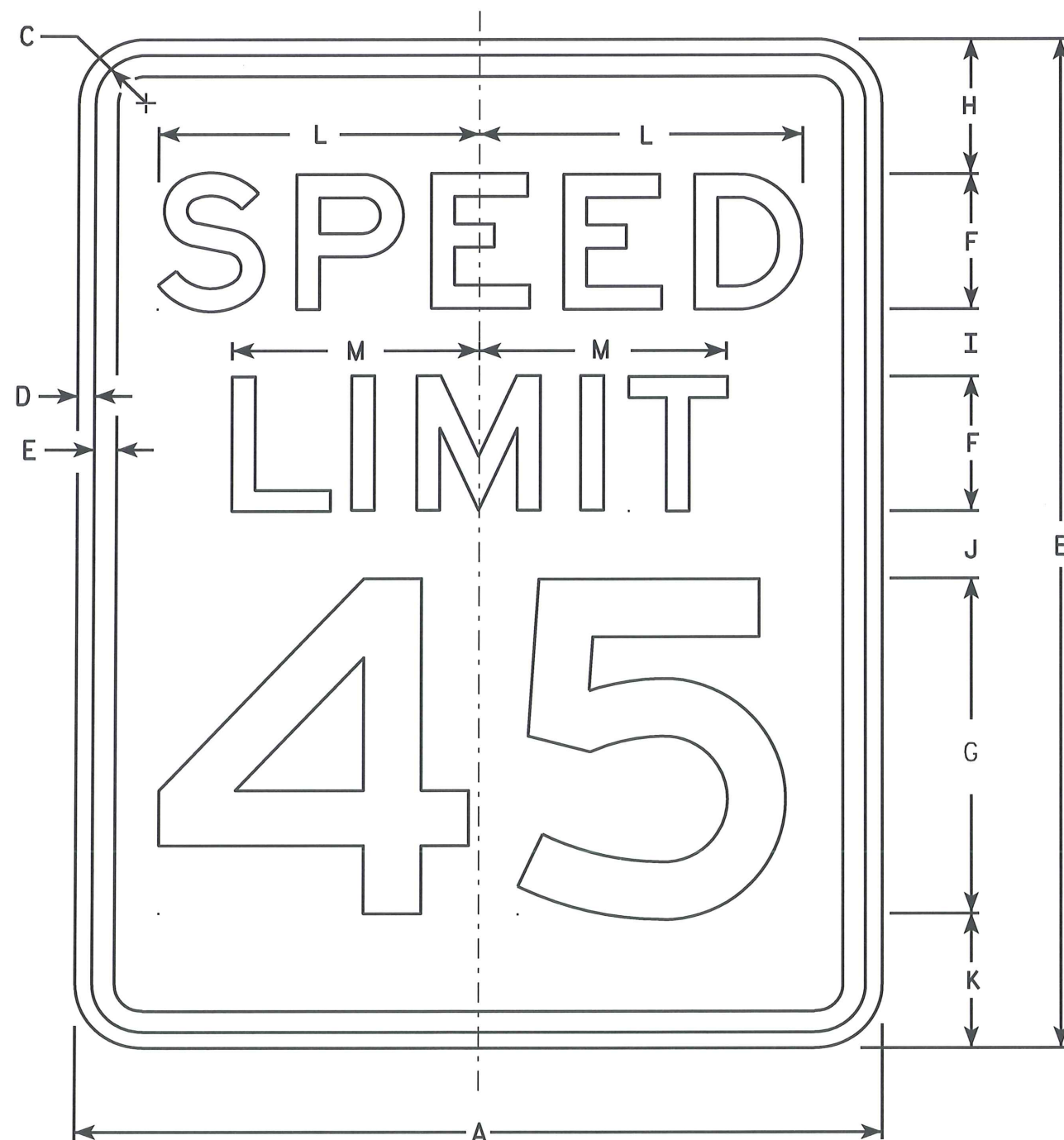
HWY: CTH E

COUNTY: GREEN

SIGN PLATES

SHEET NO:

E



R2-1

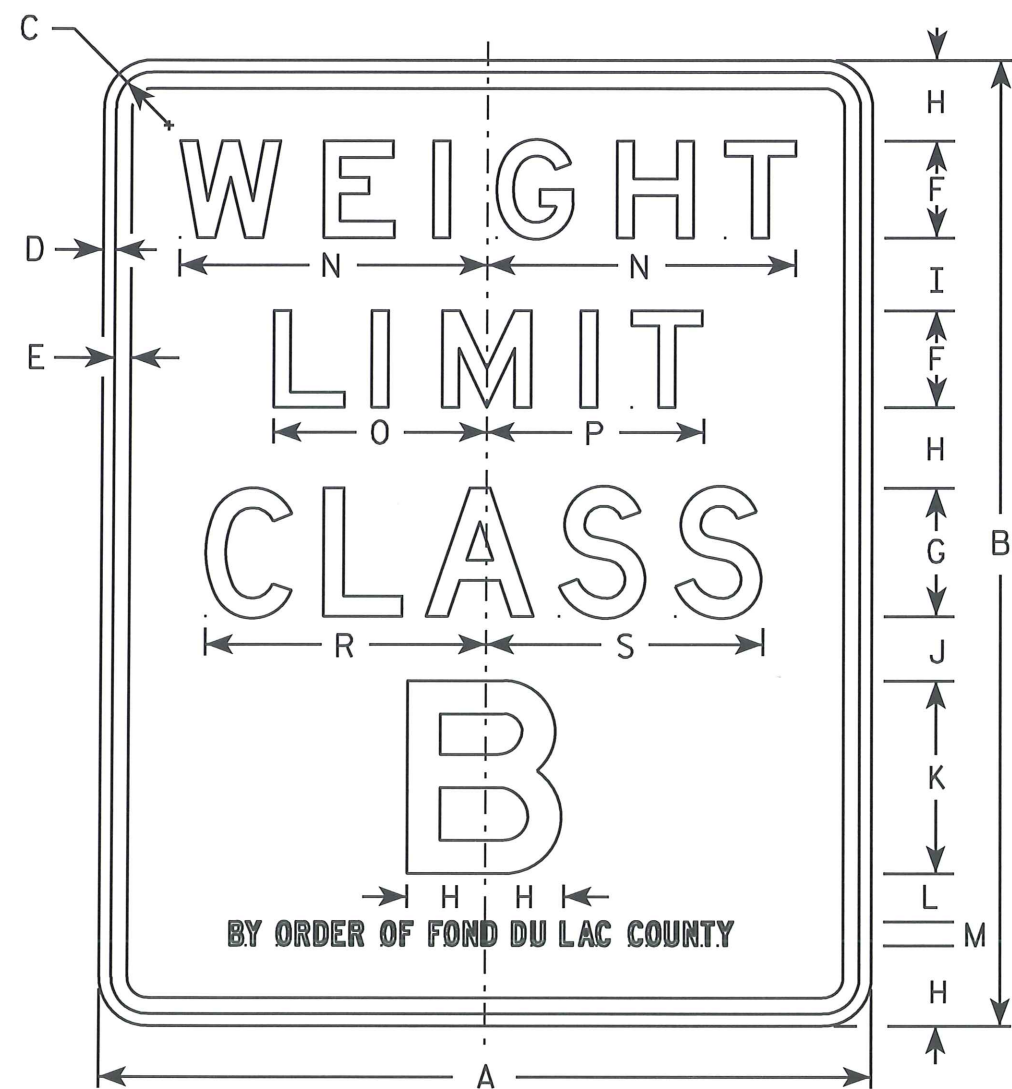
NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

STANDARD SIGN R2-1

WISCONSIN DEPT OF TRANSPORTATION
APPROVED *Matthew R. Rauch*
For State Traffic Engineer
DATE 5/26/10 PLATE NO. R2-1.13



R12-53

NOTES

- 1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - White
Message - Black
- 3. Message Series - See Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Lines 1, 2 & 4 are Series E.
Line 3 is Series D.
Line 5 is Series C.
- 6. Line 5 of the sign shall vary with the name of the maintaining authority.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	30	1 1/8	3/8	1/2	3	4	2 1/2	2 1/4	2	6	1 1/2	3/4	9 5/8	6 5/8	6 3/4		8 3/4	8 5/8								5.0
2M	24	30	1 1/8	3/8	1/2	3	4	2 1/2	2 1/4	2	6	1 1/2	3/4	9 5/8	6 5/8	6 3/4		8 3/4	8 5/8								5.0
3																											
4																											
5																											

STANDARD SIGN
R12-53

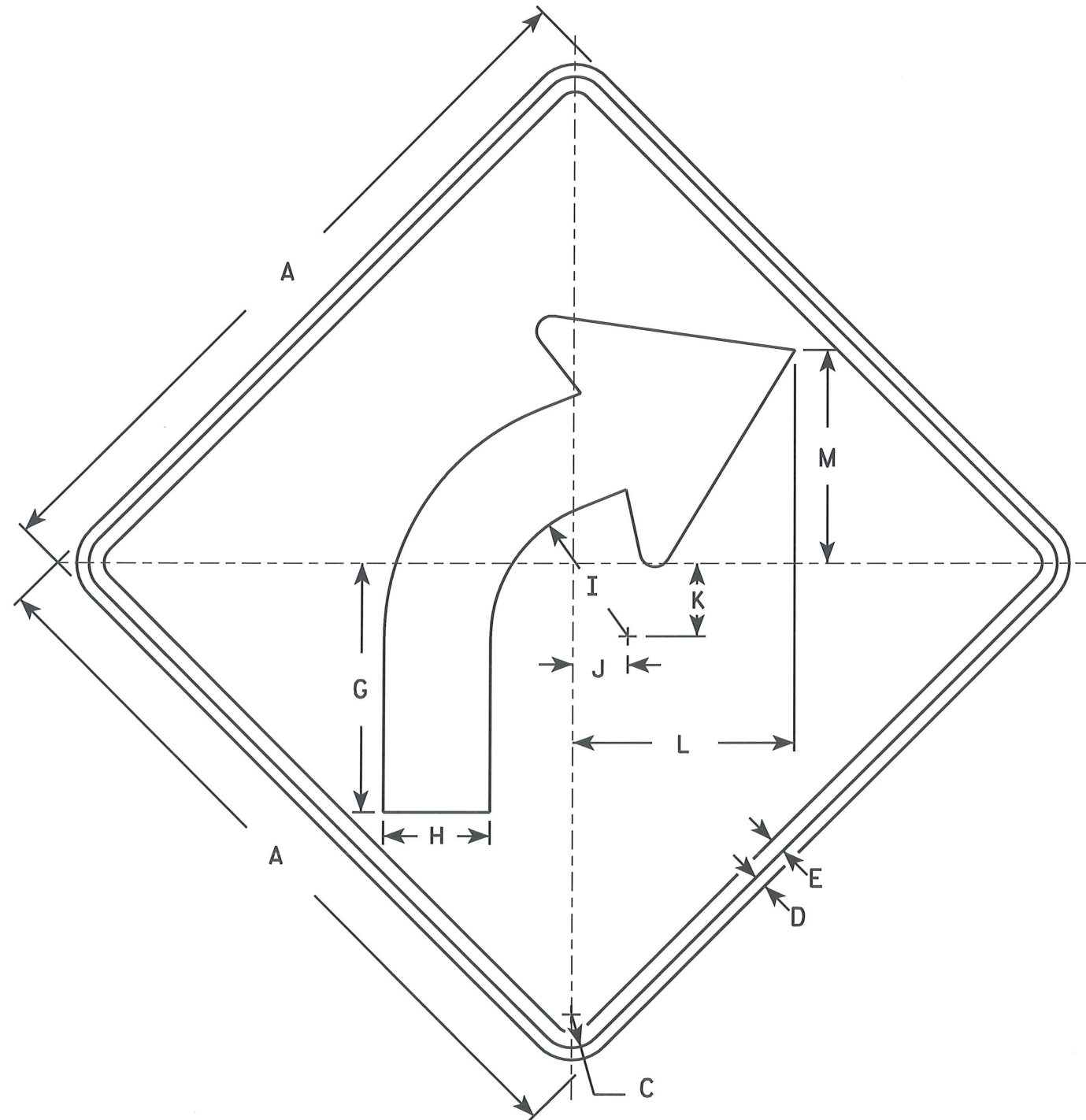
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

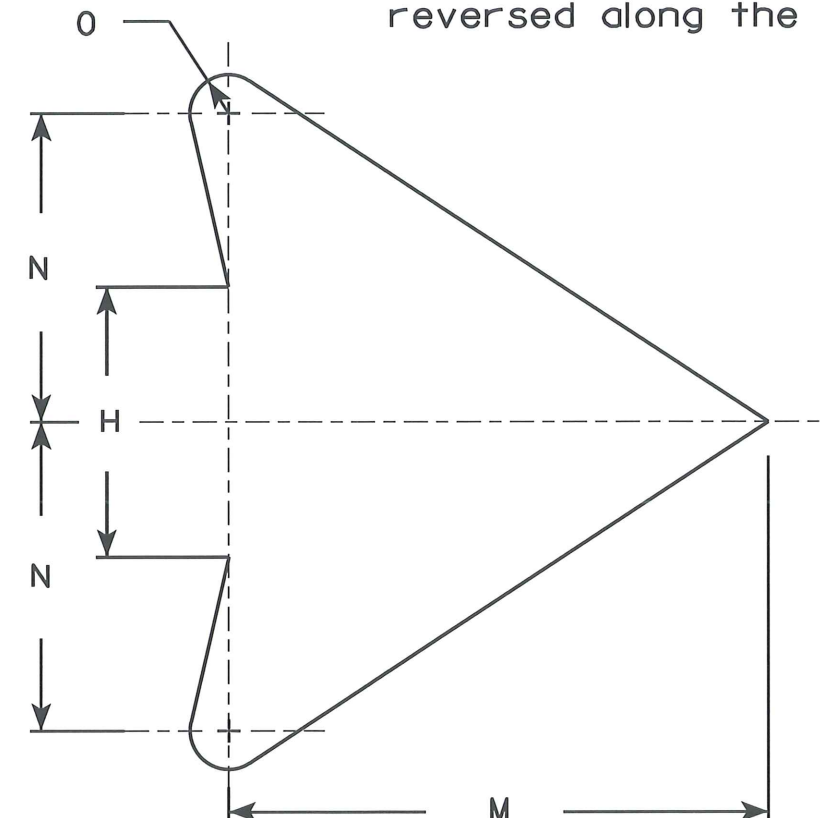
DATE 4/1/11 PLATE NO. R12-53.3

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



W1-2R



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

STANDARD SIGN

W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-2.10

PROJECT NO: 5605-00-70

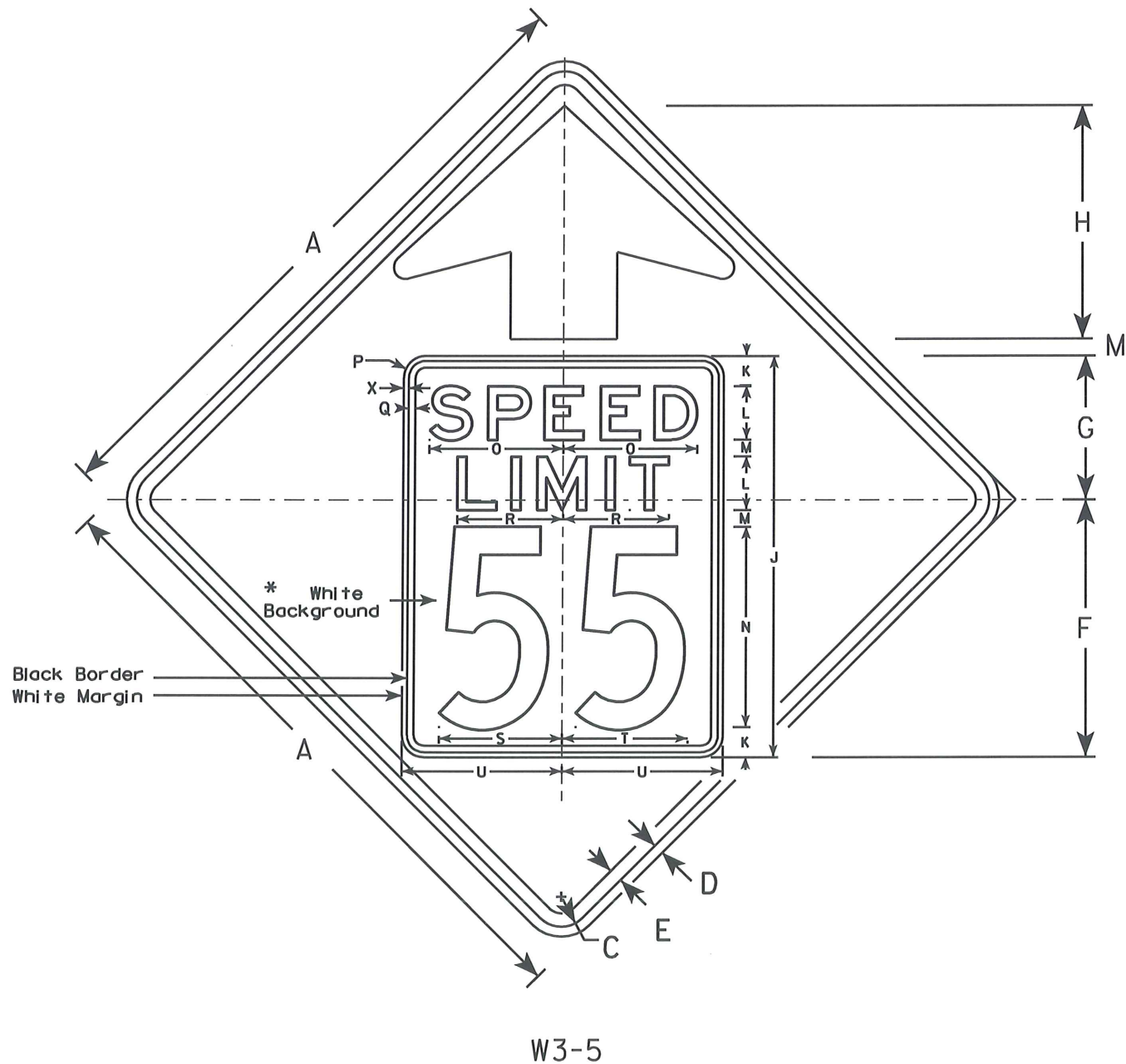
HWY: CTH E

COUNTY: GREEN

SIGN PLATES

SHEET NO:

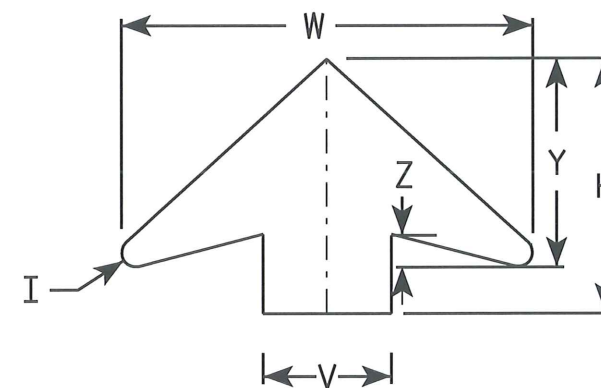
E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: *
Background - YELLOW*
Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN W3-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W3-5.5

PROJECT NO: 5605-00-70

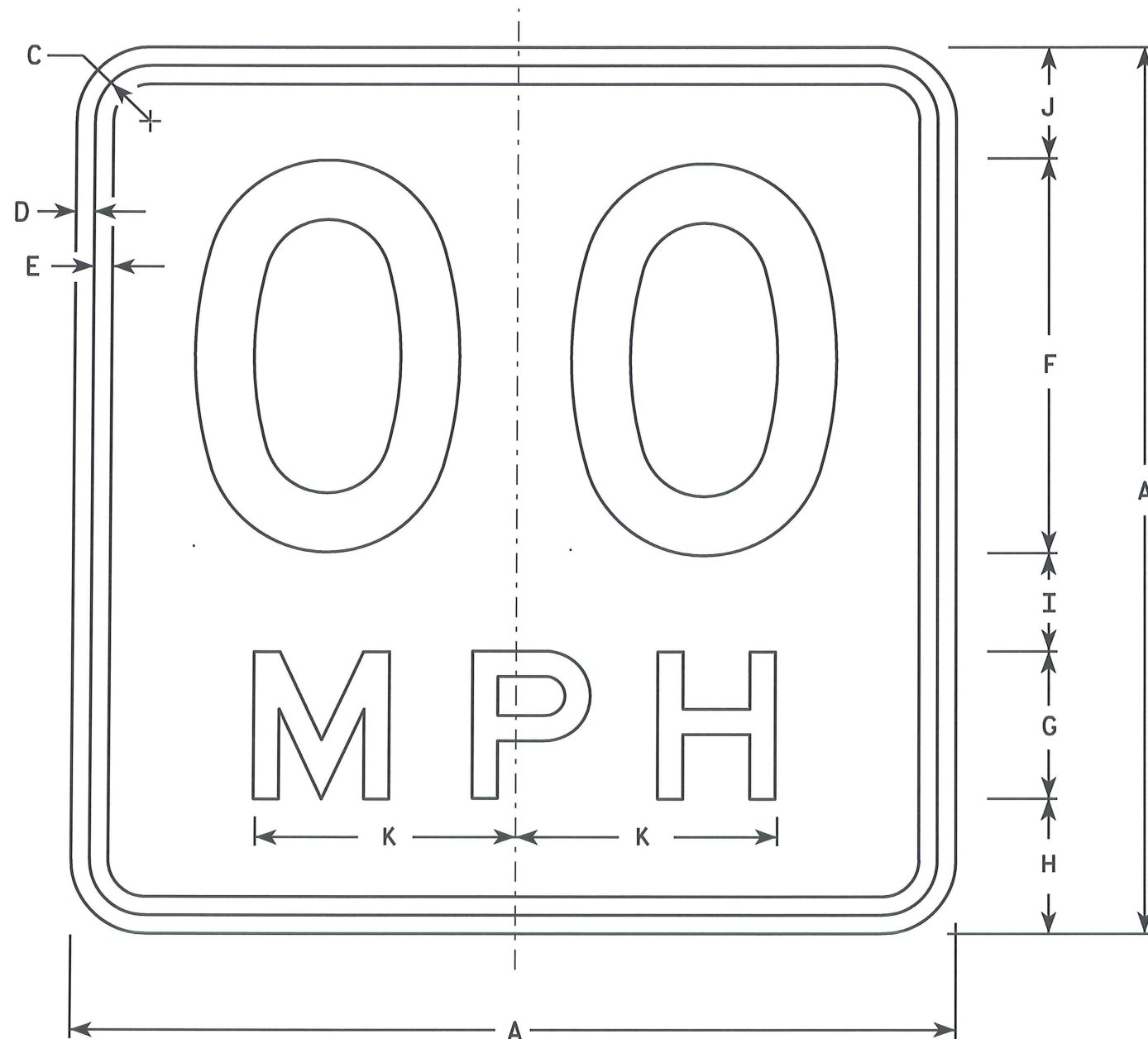
HWY: CTH E

COUNTY: GREEN

SIGN PLATES

SHEET NO:

E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
Line 2 is Series E

W13-1

- * For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
* * * * *	1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8															2.25
	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8															2.25
	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8															2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8															4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8															9.00
	5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8															9.00

STANDARD SIGN

W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

PROJECT NO: 5605-00-70

HWY: CTH E

COUNTY: GREEN

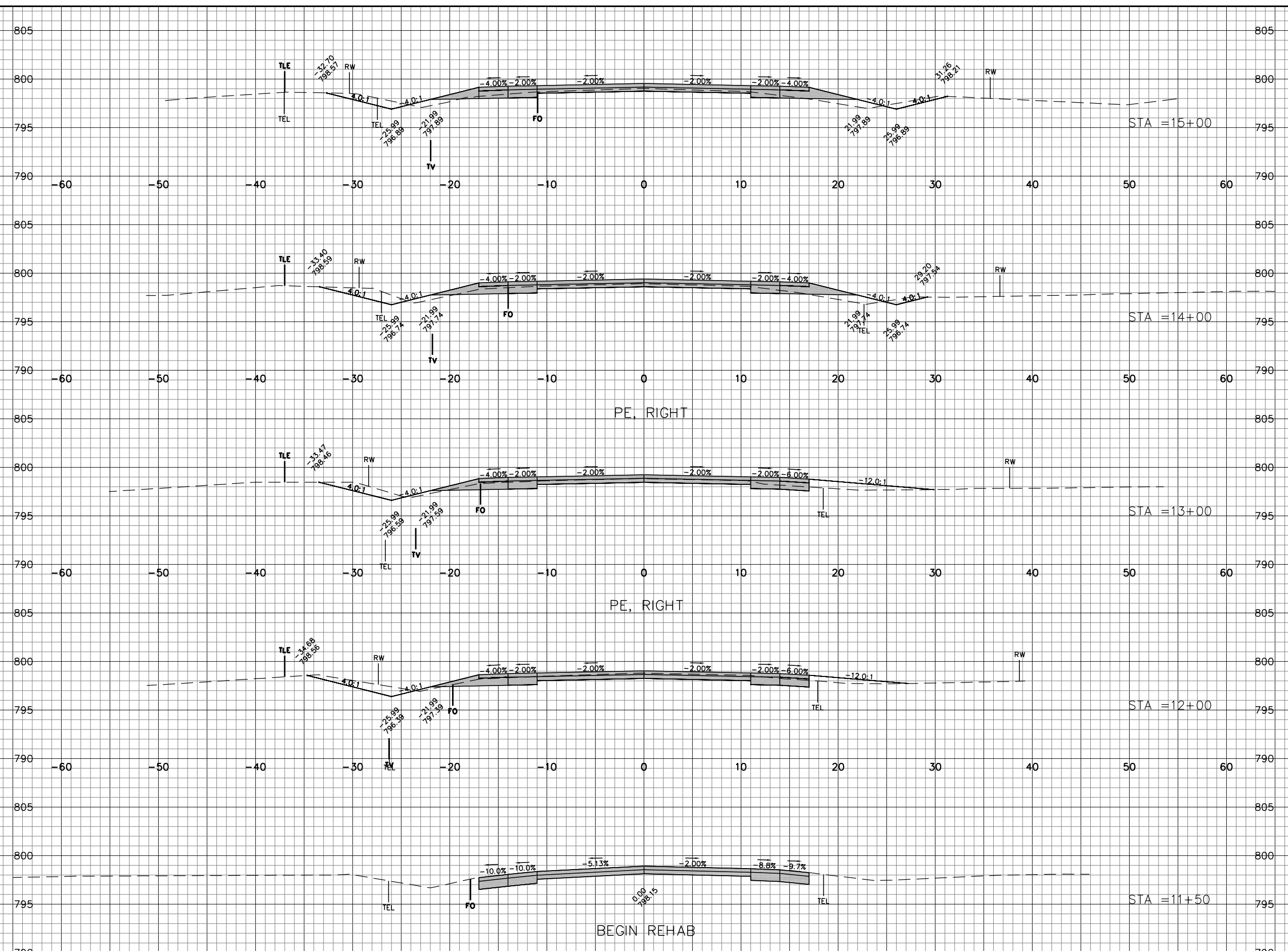
SIGN PLATES

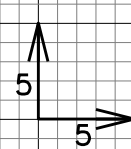
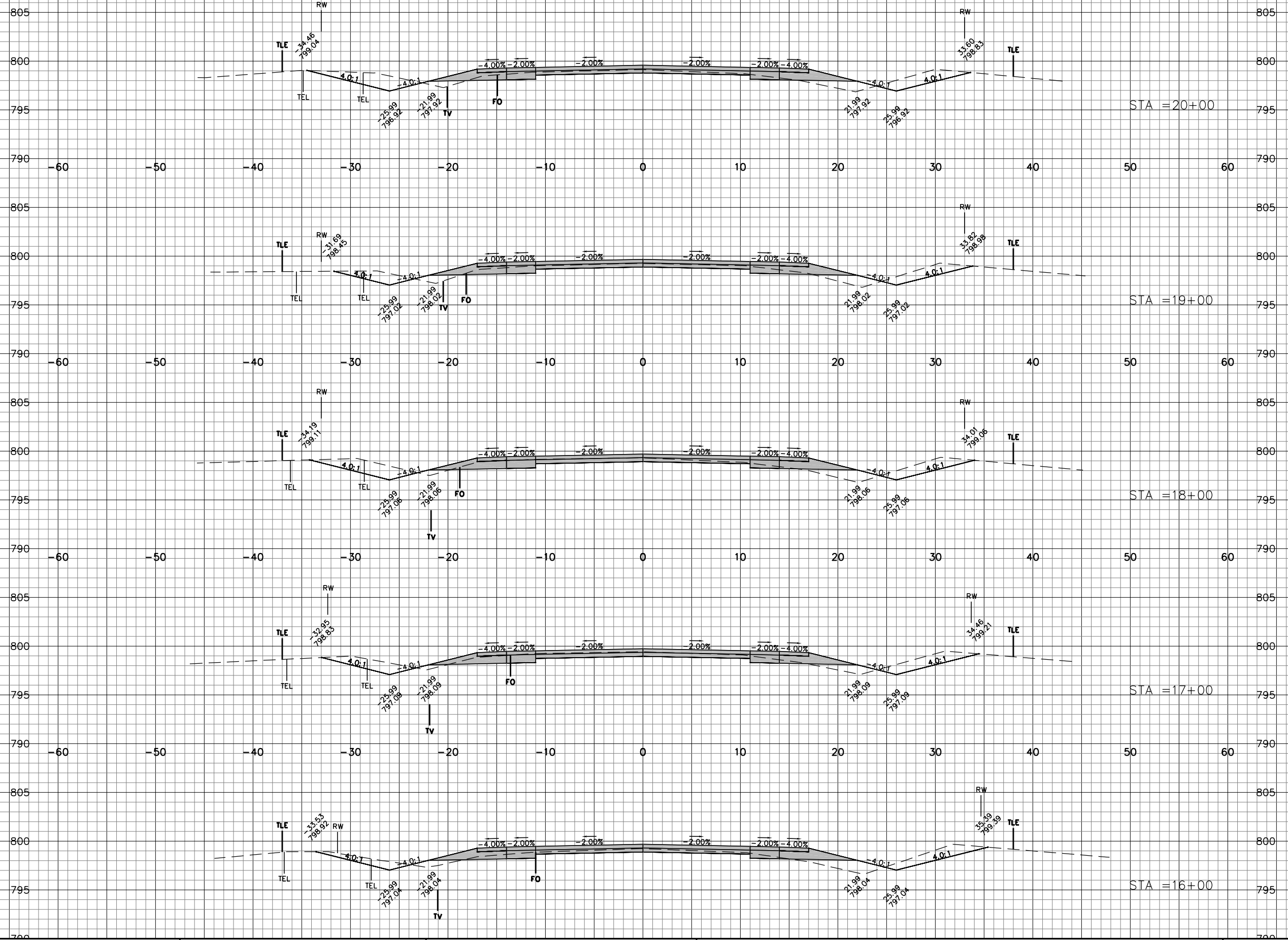
SHEET NO:

E

Division	From/To Station	Location	Common Excavation (1) (item # 205.0100)		Salvaged/ Unusable Pavement Material	Available Material (3)	Unexpanded Fill	Expanded Fill (4)	Mass Ordinate +/- (5)	Waste	Borrow (6) (item #208.0100)
			Cut	EBS Excavation (2)				Factor 1.25			
	111+50 to 44+93.9 UNDISTRIBUTED	CTH E Mainline	6953	1186		6953 0	1590	1987	4966	4966	
Division 1 Subtotal			6953	1186	0	6953	1590	1987	4966	4966	
	2100+50 - 102+50	St John Rd	1140	0		1140	676	845	294	294	676
Division 2 Subtotal			1140	0	0	1140	676	845	294	294	676
Grand Total			8093	1186	0	8093	2266	2833	5261	5261	676
Total Common Exc			9279								

1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
2) EBS Excavation to be backfilled with Select Crushed Material.
3) Available Material = Cut - Salvaged/Unusuable Pavement Material
4) Expanded Fill. Factor = 1.25
5) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.
6) Borrow material to be used only in the event excess material from project is deamed unsuitable.





PROJECT NO: 5605-00-70

HWY: CTH E

COUNTY: GREEN

CROSS SECTIONS:

SHEET

E

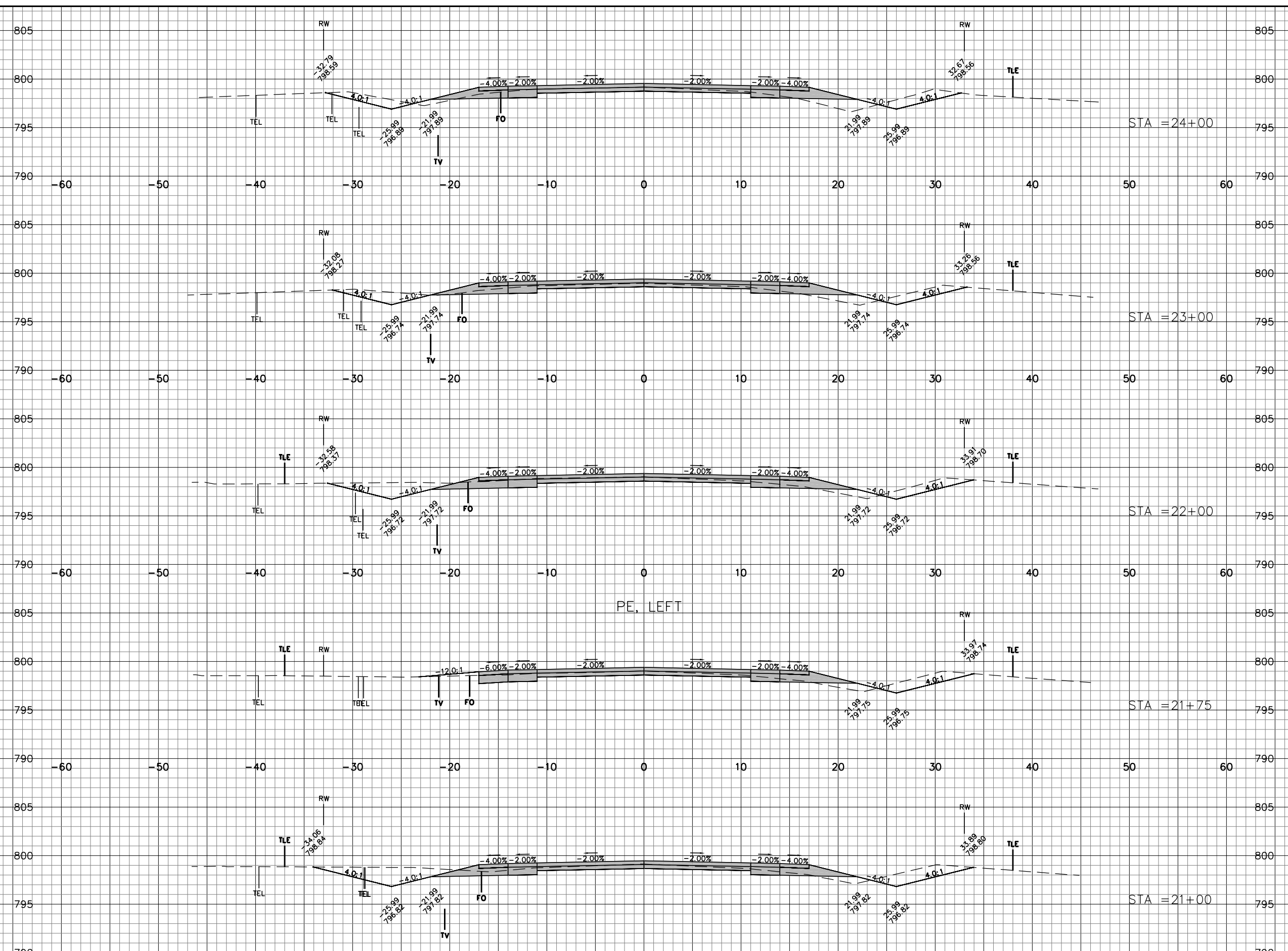
FILE NAME : I:\CLIENTS-MAD\B4893 BROADHEAD CITY OF\009 CTH E MCEWEN - ST JOHN\DWG\090201_XS_48930009.DWG

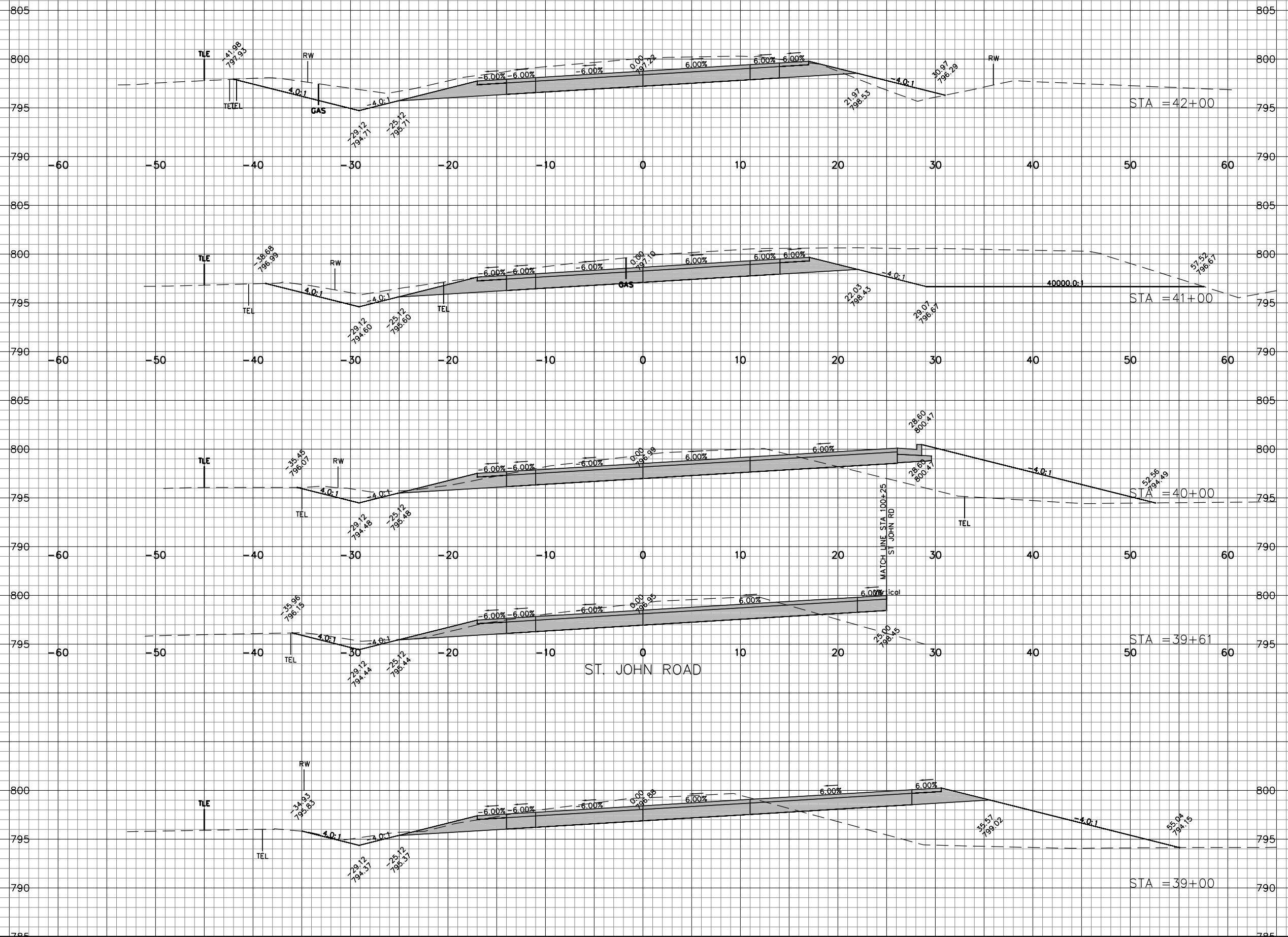
PLOT DATE : 1/16/2015 1:29 PM

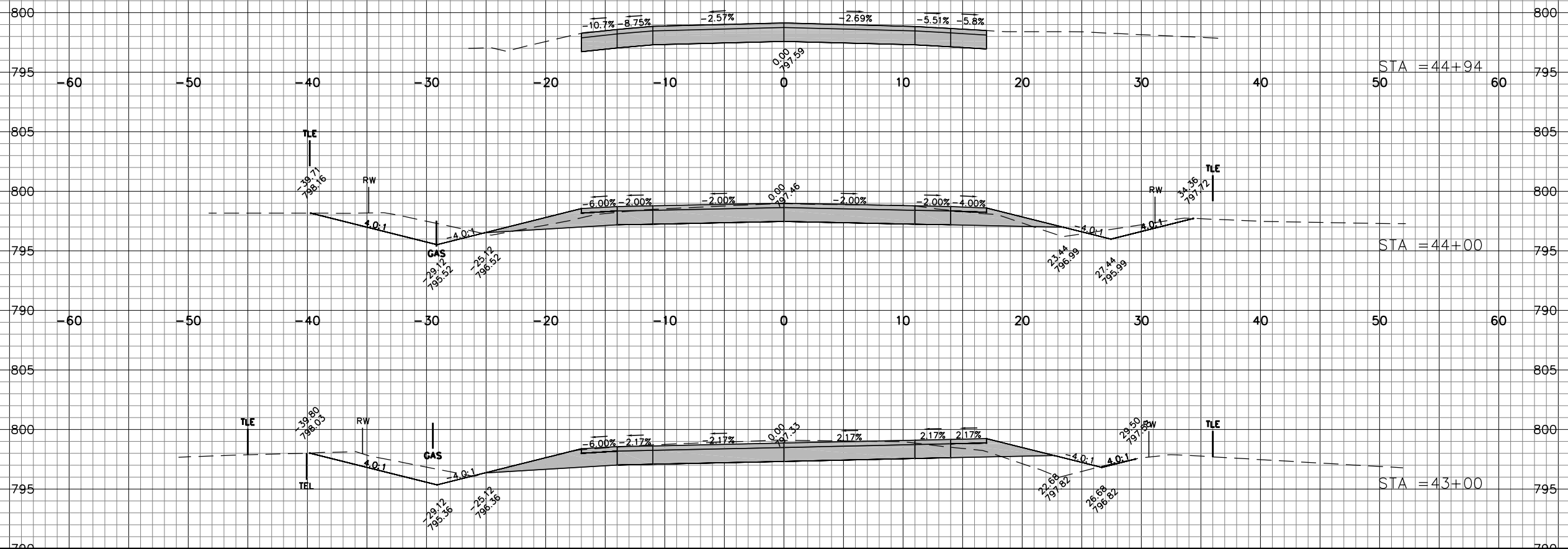
PLOT BY : JOE PINGEL

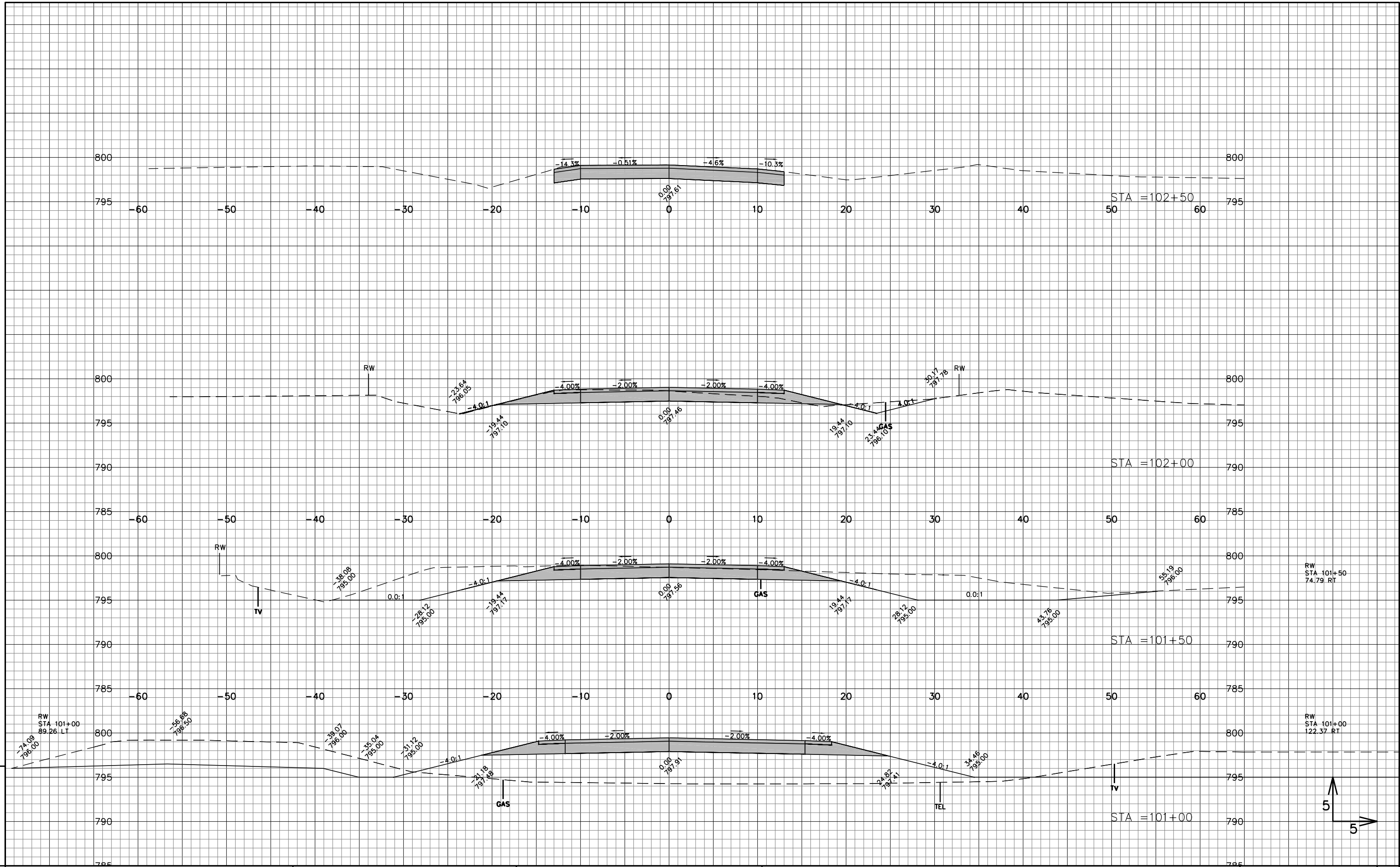
PLOT SCALE :

WISDOT/CADDs SHEET 49











Wisconsin Department of Transportation

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