

MAD
PROJECT ID:
WITH:

JAN 2016

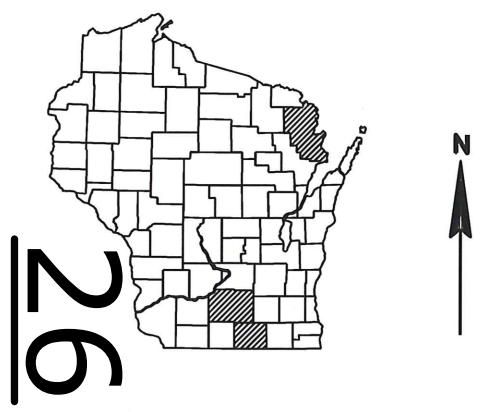
ORDER OF SHEETS

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

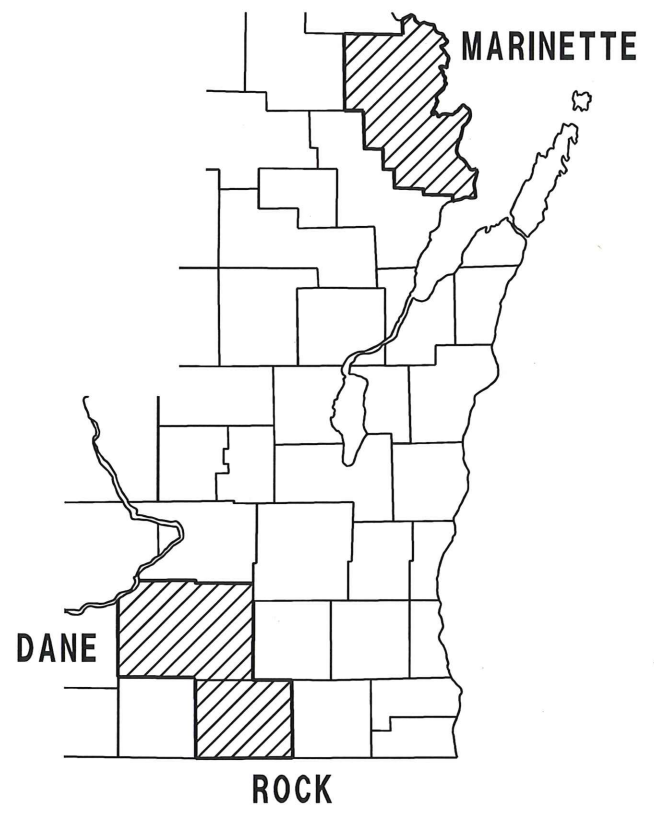
TOTAL SHEETS = 38

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT
STATEWIDE TREE CLEARING
VARIOUS LOCATIONS

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
5105-16-60		



STATE PROJECT NUMBER
5105-16-60



CONVENTIONAL SYMBOLS	
PLAN	
CORPORATE LIMITS	
PROPERTY LINE	
LOT LINE	
LIMITED HIGHWAY EASEMENT	
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	
MARSH AREA	
WOODED OR SHRUB AREA	
PROFILE	
GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

LAYOUT
SCALE 0 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.00 MI.

HORIZONTAL POSITIONS SHOWN ARE WISCONSIN COUNTY COORDINATES, *countyname* COUNTY, NAD83 (*year*), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	
Designer	L. E. Jones
Project Manager	L. E. Jones
Regional Examiner	
Regional Supervisor	

APPROVED FOR THE DEPARTMENT

DATE: 12/8/15 *Samuel Stunt* (Signature)

E

GENERAL NOTES

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

THE LOCATIONS OF EXISTING & PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. CONTRACTOR IS RESPONSIBLE FOR CONTACTING THOSE UTILITIES

ADJUSTMENTS TO TRAFFIC CONTROL DEVICES SHALL REQUIRE THE ENGINEERS APPROVAL

UTILITIES

Wisconsin Power & Light/Alliant Energy
Jason Hogan
Suite 1000
4902 N. Biltmore Lane
Madison, WI 53718
(608) 458-4871
jasonhogan@alliantenergy.com

ANR Pipeline Company
Lawrence Huber
W3925 Pipeline LN
Eden, WI 53019
(920) 477-2235
lawrence_huber@transcanada.com

AT&T Wisconsin
Carol Anason
316 W. Washington Avenue
Madison, WI 53703
608-252-2385
Ca2624@att.com

ATC Electric
Mike Olsen
801 O'Keefe Road
P.O. Box 6113
De Pere, WI 54115-6113
(920) 338-6582
molsen@atellc.gov

City of Beloit
Michael Flesch
100 State Street
Beloit, WI 53511
(608) 364-6696

Charter Communications
Brandon Storm
2701 Daniels Street
Madison, WI 53718
(608) 274-3822

Rock Energy Cooperative
Lynn Maier
P.O. Box 1758
Janesville, WI 53547-1758
lynnm@rock.coop

McLeod USA Telecommunication Services Inc.
Jim Kostuch
13935 Bishops Dr.
Brookfield, WI 53005
(262) 792-7938
James.Kostuch@wldstream.com

Charter Communications
David Moldenhauer
1348 Plainfield Avenue
Janesville, WI 53545
telephone (608) 373-7538, mobile (608) 206-0494
david.moldenhauer@charter.com

Frontier Communications
Russ Ryan
315 Oak Street
Oakfield, WI 53065.
Telephone (920) 583-3275, mobile (920) 737-9662
russell.w.ryan@ftr.com

Wisconsin Department of Transportation Communication Line
Jeff Madson
Suite 300
433 W. St. Paul Avenue
Milwaukee, WI 53203-3007
telephone (414) 225-3723
Jeffrey.Madson@dot.wi.gov

Town of Beloit (Sanitary Sewer)
Howard Hemmer
3629 S. Walters Road
Beloit, WI 53511
(608) 751-3493
hhemmer@town.Beloit.wi.us

ATC
Doug Vosberg
2489 Rinden Road
Cottage Grove, WI 53527.
Telephone (608) 877-7650, mobile (608) 438-7650
dvosberg@atellc.com

Windstream Communications
Jim Kostuch
13935 Bishops Drive
Brookfield, WI
53005, telephone (262) 792-7938
James.Kostuch@windstream.com

WisDNR Liaisons

Dane:
Eric Heggelund
Phone: 608-275-3301
Eric.heggelund@wisconsin.gov

Rock:
Laura Bub
Phone: (608) 275-3485
Laura.Bub@wisconsin.gov



UTILITIES

ANR Pipeline Company
Matt Hischke
N4956 Oakcrest Dr
Bonduel, WI 54107
(715) 758-3345
Matthew_Hischke@transcanada.com

Centurylink-communication line
Patrick Tracy
100 Vickie Dr.
Wausauke, WI 54177
(715) 856-9138
Patrick.tracy@centurylink.com

ATC Electric
Anthony Marciniak
W. 234 N. 2000 Ridgeview Parkway Ct.
P.O.Box 47
Waukesha, WI 53187-0047
(262) 506-6814
amarciniak@atellc.gov

Time Warner Cable – communication line
Vince Albin
3520 E. Destination Dr.
Appleton, WI 54915
(920) 831-9249
Vince.Albin@twcable.com

Wisconsin Public Service Corporation - Electricity
Steve Van Campenhout
1717 10th Ave.
Menominee, MI 49858
(877) 724-4296
SVACampenhout@wisconsinpublicservice.com

Wisconsin Public Service Corporation – Gas/Petroleum
Howard Sorensen
1717 10th Ave.
P.O. Box 19001
Menominee, MI 49858
(906) 863-4359
HJSorensen@wisconsinpublicservice.com

EMERGENCY CONTACT NUMBERS FOR WISCONSIN PUBLIC SERVICE

ELECTRIC 24 HOUR EMERGENCY SERVICE: 1-800-450-7240
OUR EMERGENCY SERVICE 1-800-450-7280



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ESCANABA AND LAKE SUPERIOR RAILROAD CONTACTS

Primary Railroad Contact
Tom Klimek, Dir-Marketing, Customer
Services Green Bay Operations
529 S. Jefferson St. Suite 108
PO Box 85
Green Bay, WI 54305
Phone 920-435-8006
Cell 920-841-5062
Fax 906-435-6281
E-Mail elsklimek@gmail.com

Train Dispatch Information and Flagging contact
Bob Anderson
610 Railroad Street
Channing MI 49185
Phone 906-542-3214
Cell 906-542-3214
Depot 906-280-2513
Dispatcher 800-200-2360

CALL BEFORE YOU DIG

Rob Cook, Signal Maintainer
N. 4129 County Road 607
Iron Mountain, MI 49801
Phone 906-774-9684
Cell 906-630-2013
Signal Problems 906-542-3214
E-Mail EANDLSRR@CHARTERMI.NET

WisDNR Liaison

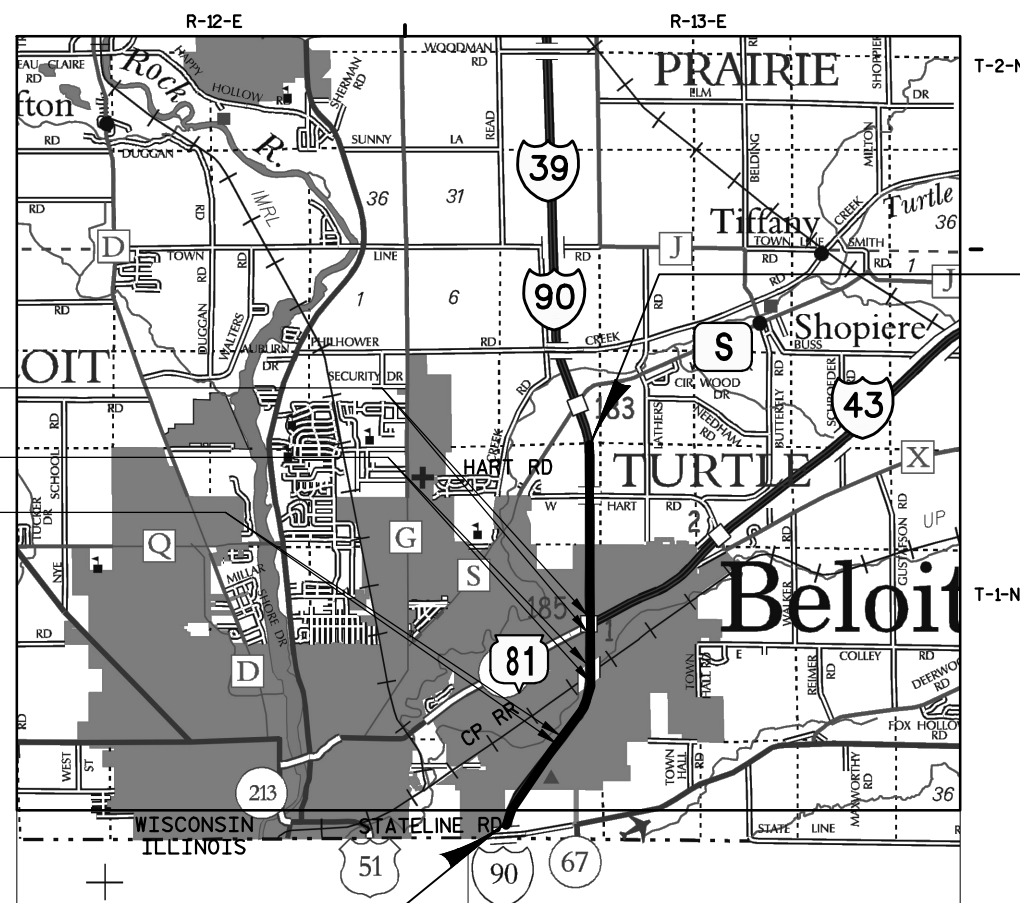
Marinette:
Jim Doperalski
Phone: 920-622-5119
James.doperalski@wisconsin.gov

SITE 1

EXCEPTION TO NET LENGTH OF CENTERLINE
STA. 212+68.31 - STA. 243+00.00
EXCEPTION TO NET LENGTH OF CENTERLINE
STA. 201+79.21 - STA. 203+93.22
EXCEPTION TO NET LENGTH OF CENTERLINE
STA. 161+13.50 - STA. 162+62.44

BEGIN SITE 1

STA. 110+00.00
Y = 201,935.09
X = 501,599.78



END SITE 1
STA. 320+00

SITE 2

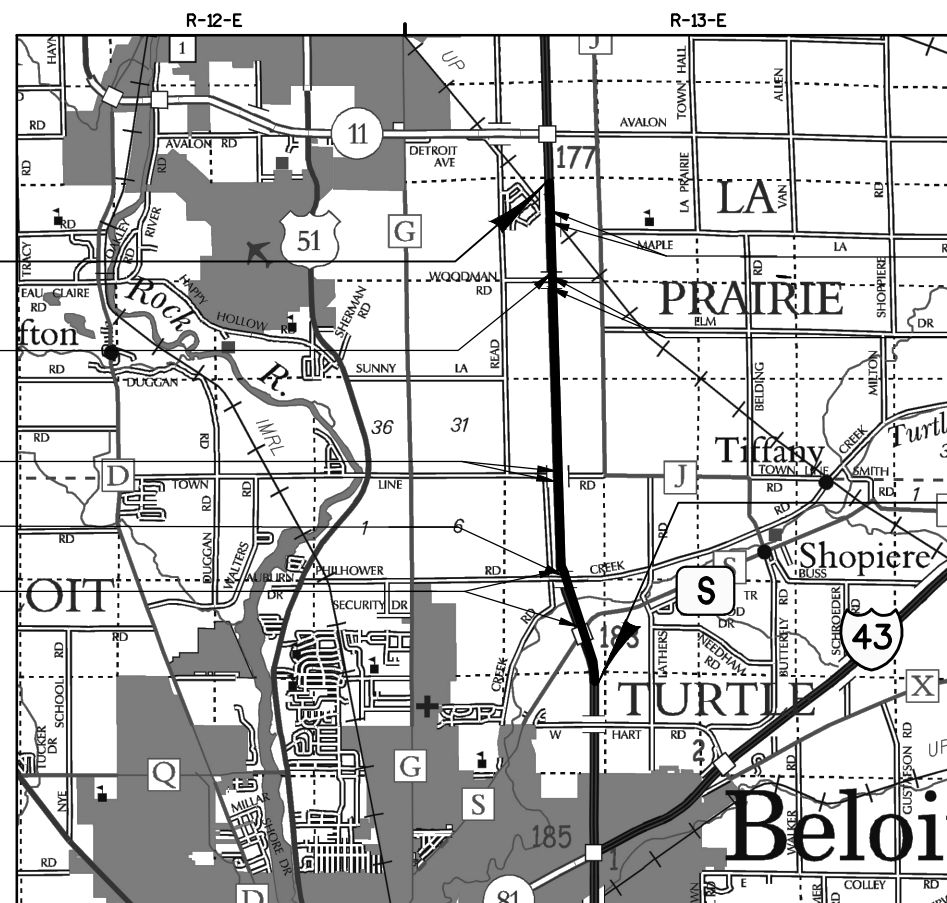
END SITE 2
STA. 600+92.00

EQUATION EQU. STA. 544+24.87 BK. =
STA. 544+99.72 AH.

EXCEPTION TO NET LENGTH OF CENTERLINE
STA. 437+31.04 - STA. 438+35.38

EQUATION EQU. STA. 384+99.83 BK. =
STA. 385+00.00 AH.

EXCEPTION TO NET LENGTH OF CENTERLINE
STA. 357+00.00 - STA. 385+88.00



T-2-N

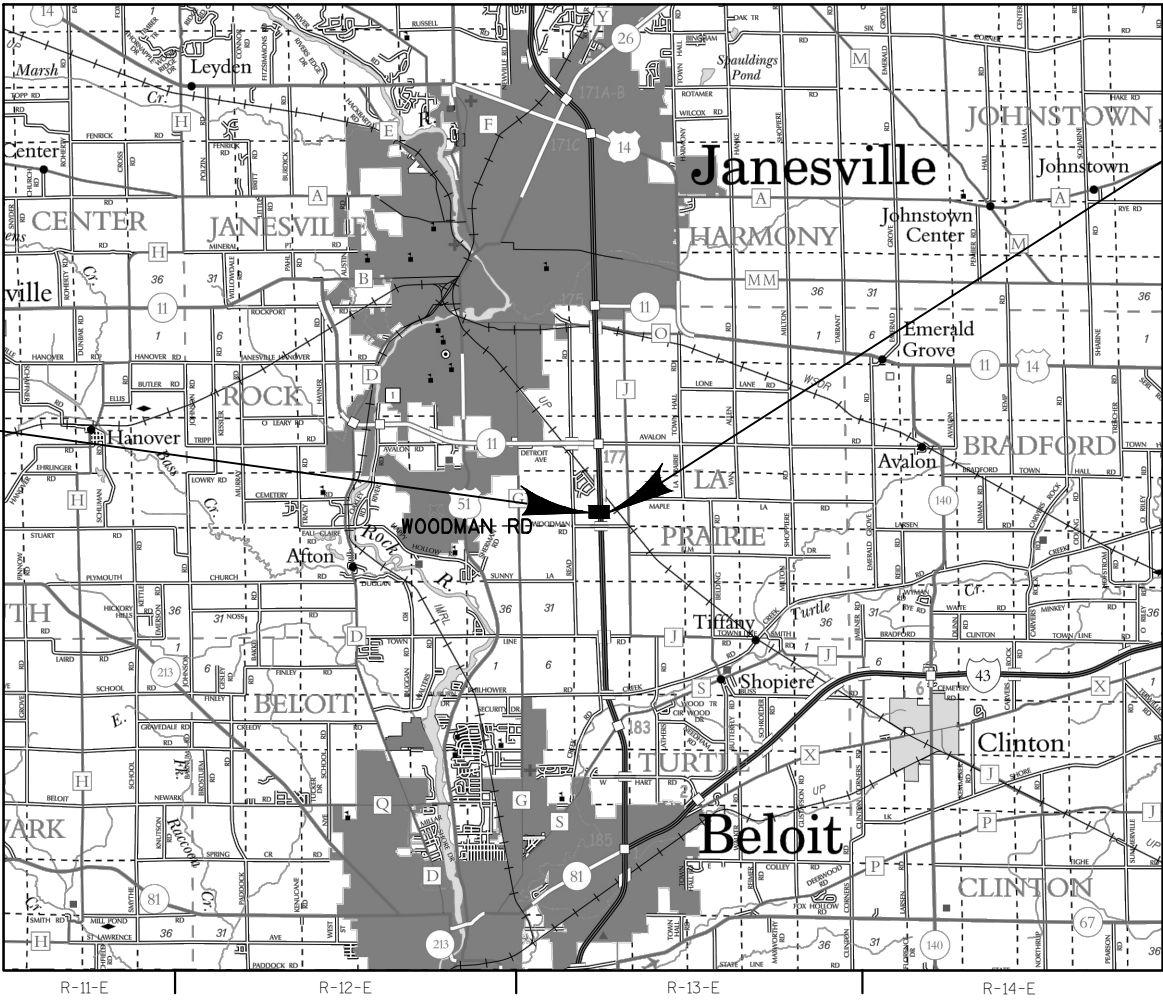
EXCEPTION TO NET LENGTH OF CENTERLINE
STA. 579+28.00 -
STA. 581+67.00

EXCEPTION TO NET LENGTH OF CENTERLINE
STA. 541+00.00 -
STA. 547+00.00

BEGIN SITE 2
STA. 320+00.00
Y = 221,567.56
X = 506,215.94

SITE MAP 3

BEGIN PROJECT 1003-10-75
STA. 14+00 'WR'
Y: 243679.42
X: 503633.15

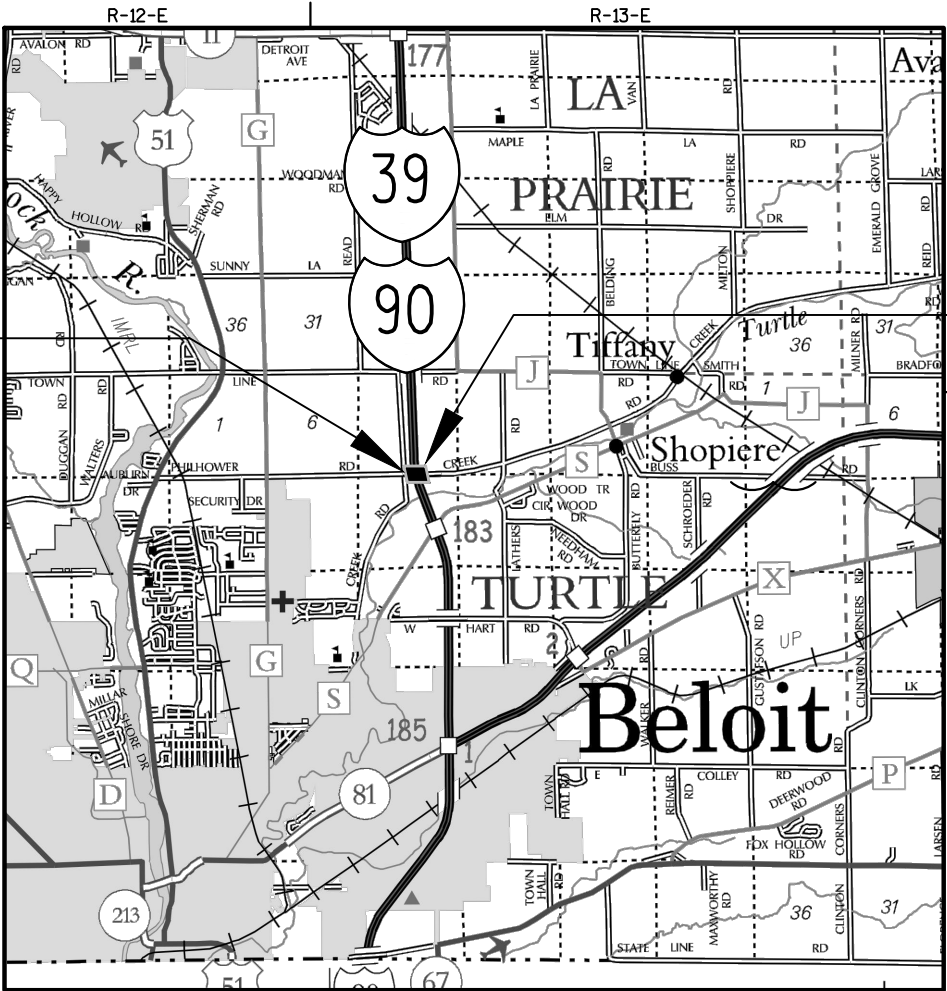


END PROJECT 1003-10-75
STA. 34+00 'WR'

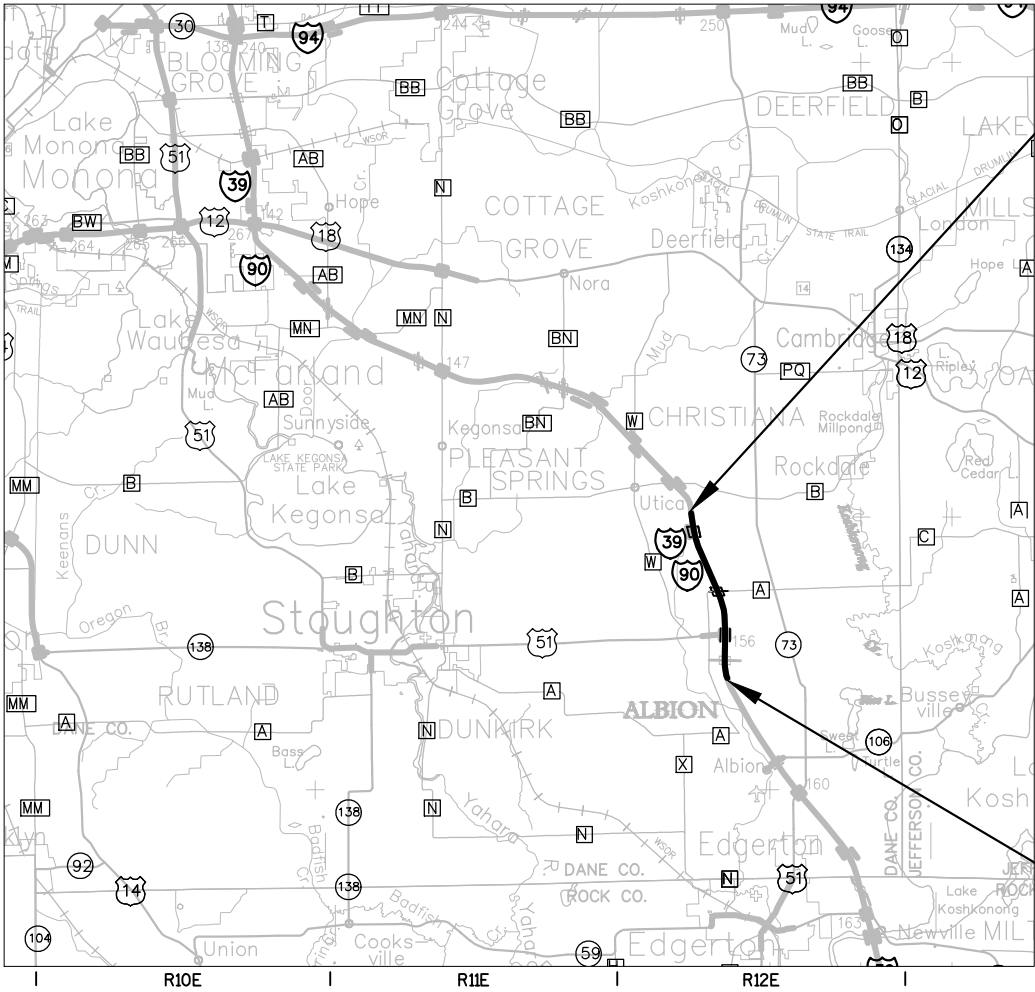
SITE 4

BEGIN SITE 4
STA. 3+00.00 'CK'
Y = 227,462.42'
X = 503,182.61'

END SITE 4
STA. 28+00.00 'CK'



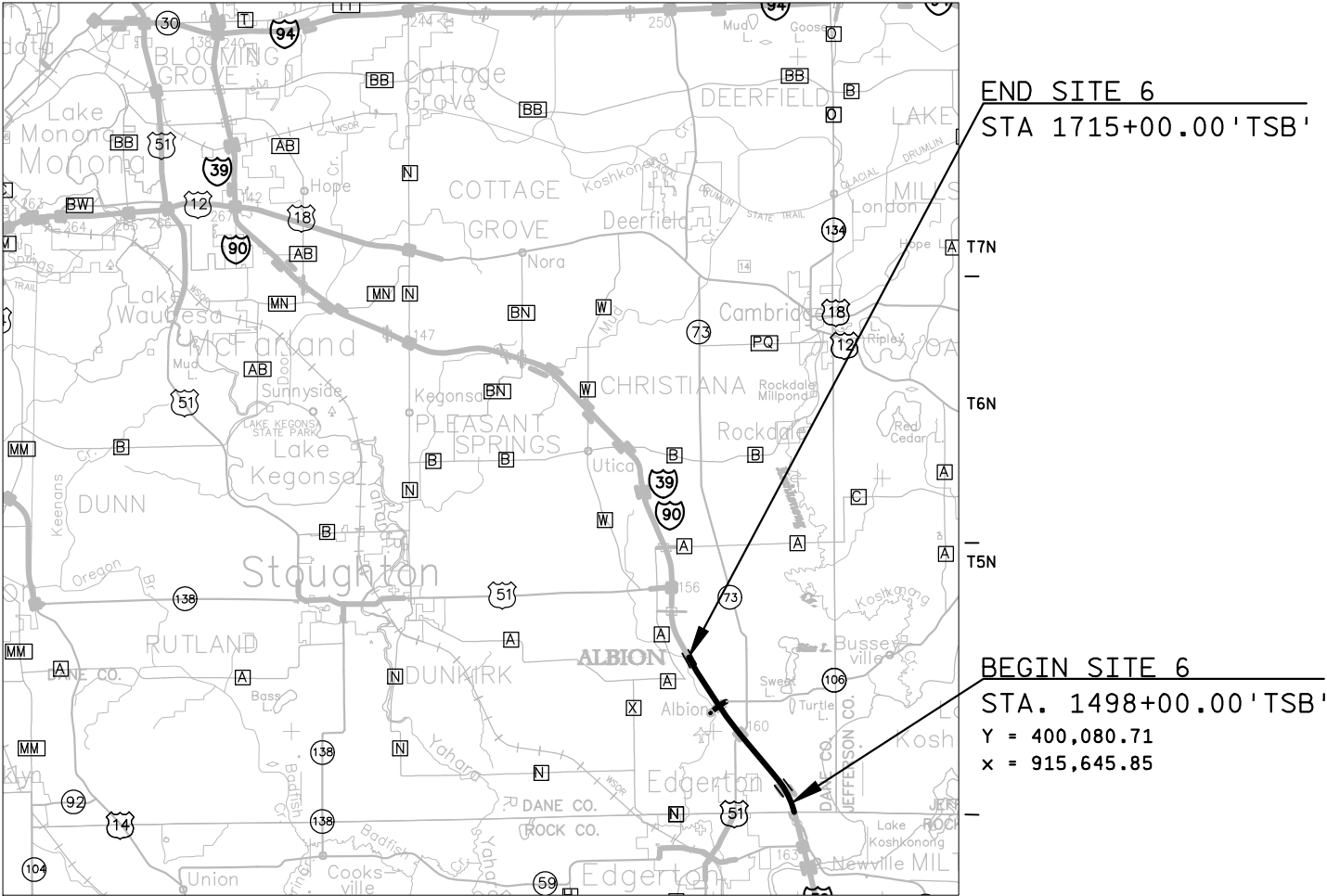
SITE #5



END SITE 5
STA. 1960+63.97 'TSB'

BEGIN SITE 5
STA 1715+00.00 'TSB'
Y = 417,974.77
X = 903,557.40

SITE 6

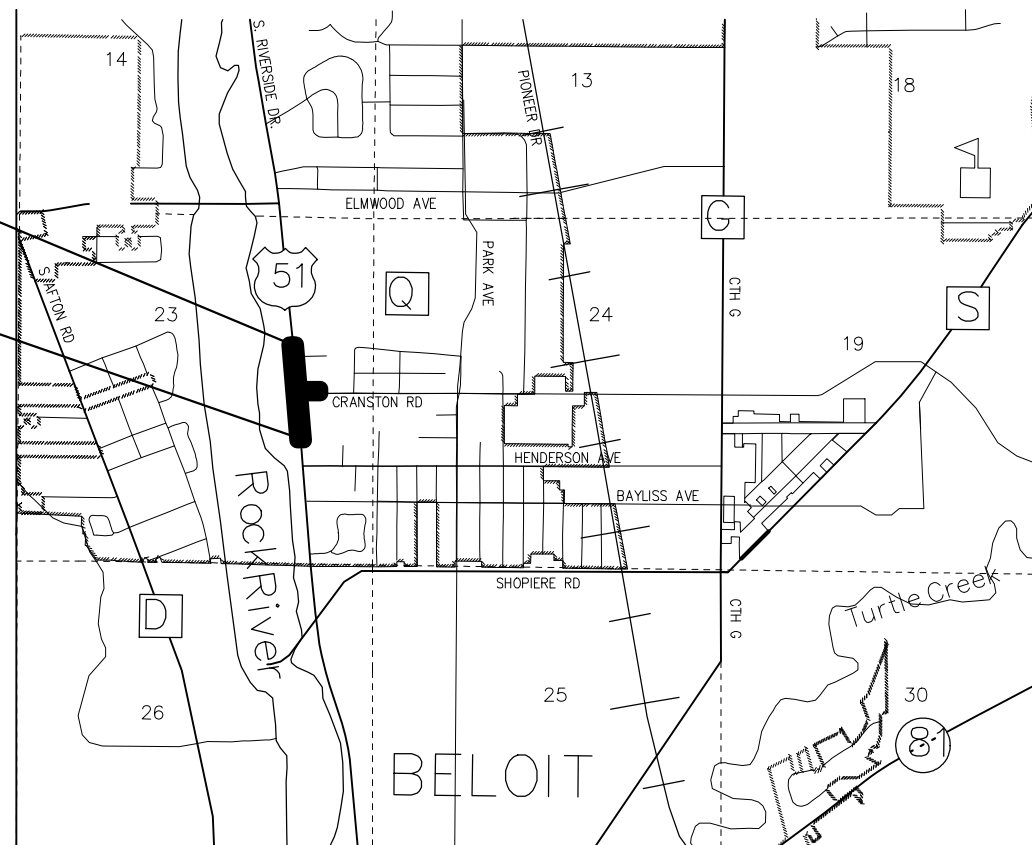


SITE MAP 7

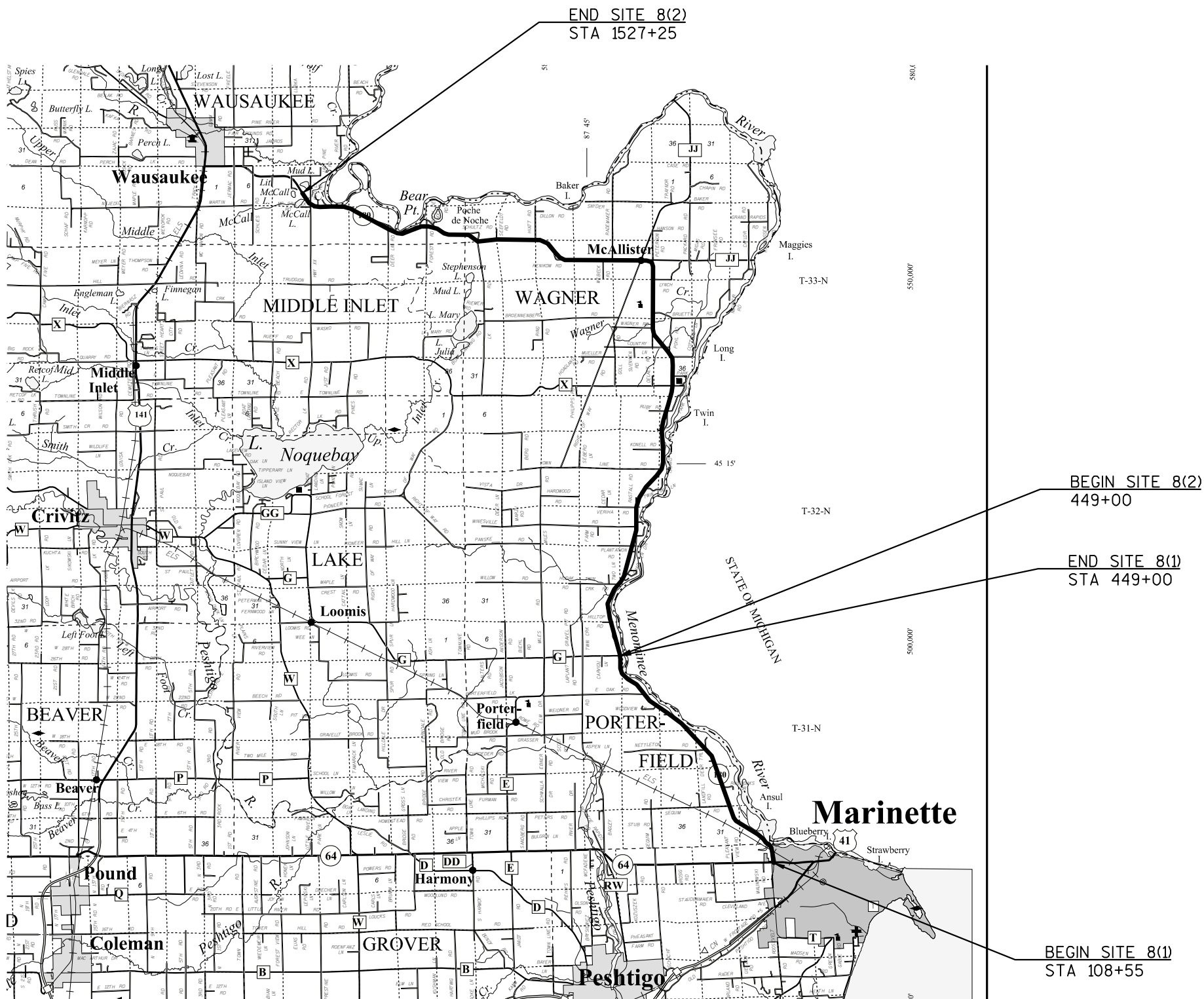
END PROJECT
STA. 111+00.00

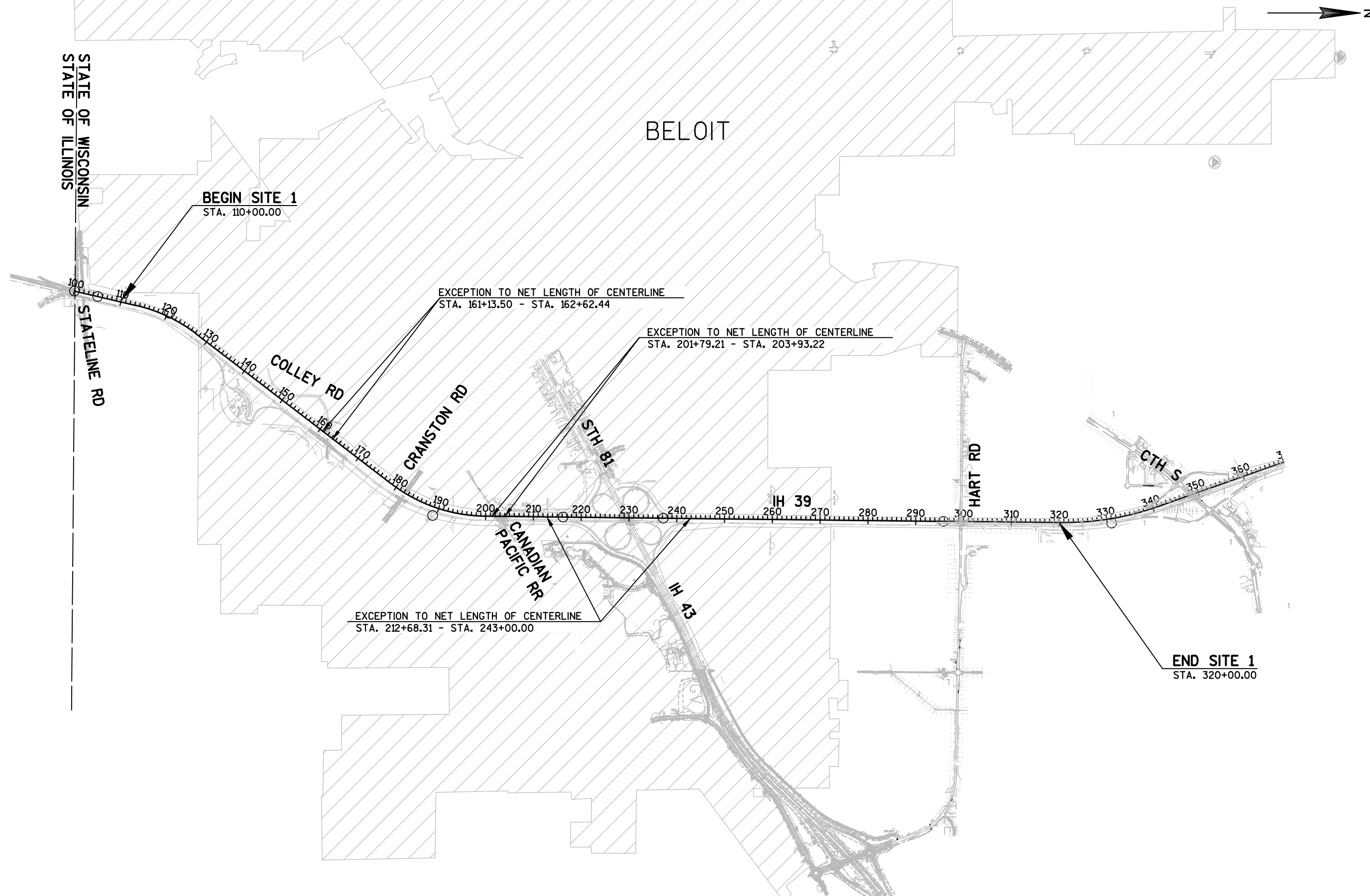
BEGIN PROJECT
STA. 94+00.00

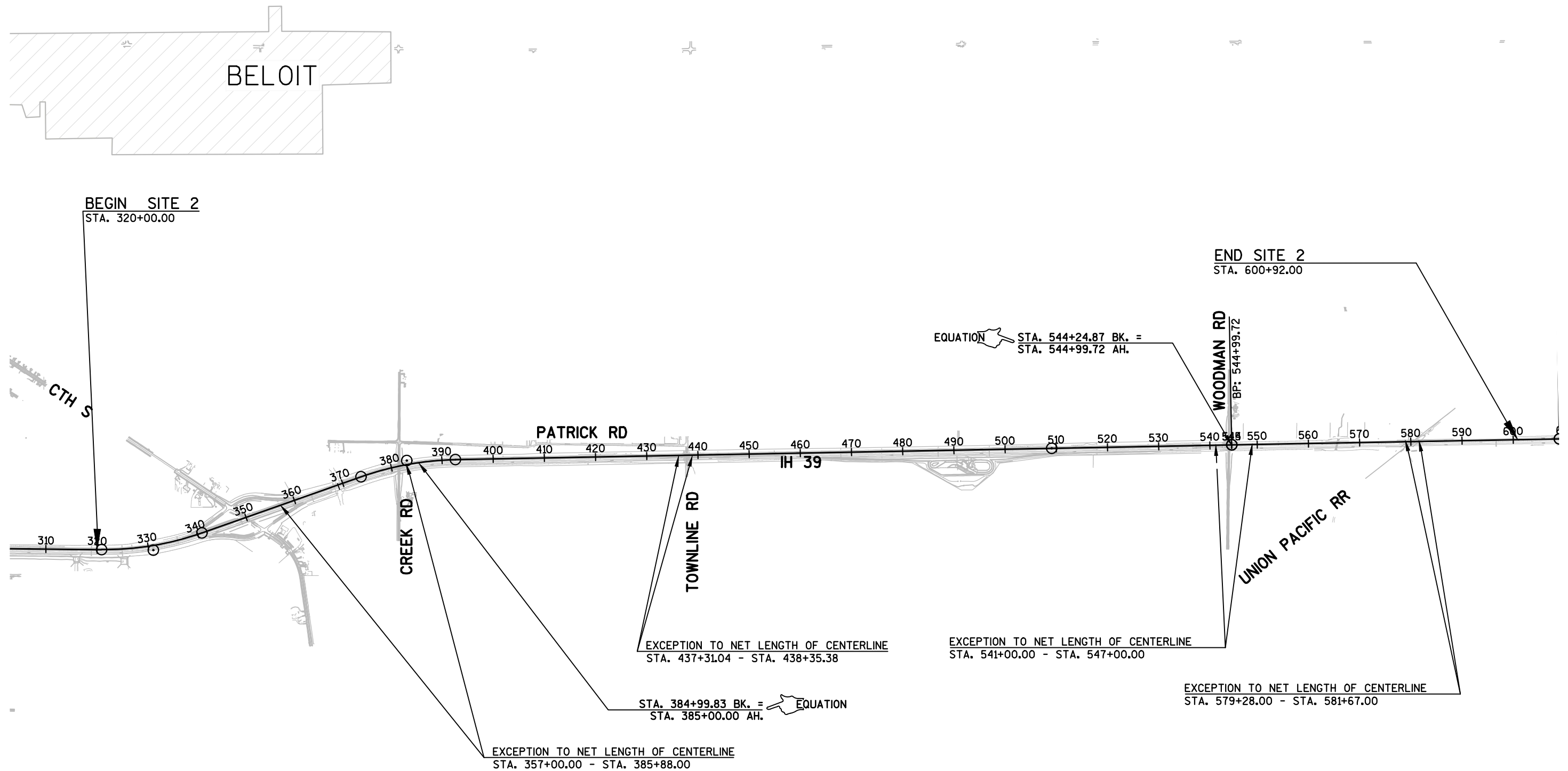
Y = 213,665.09
X = 489,880.46

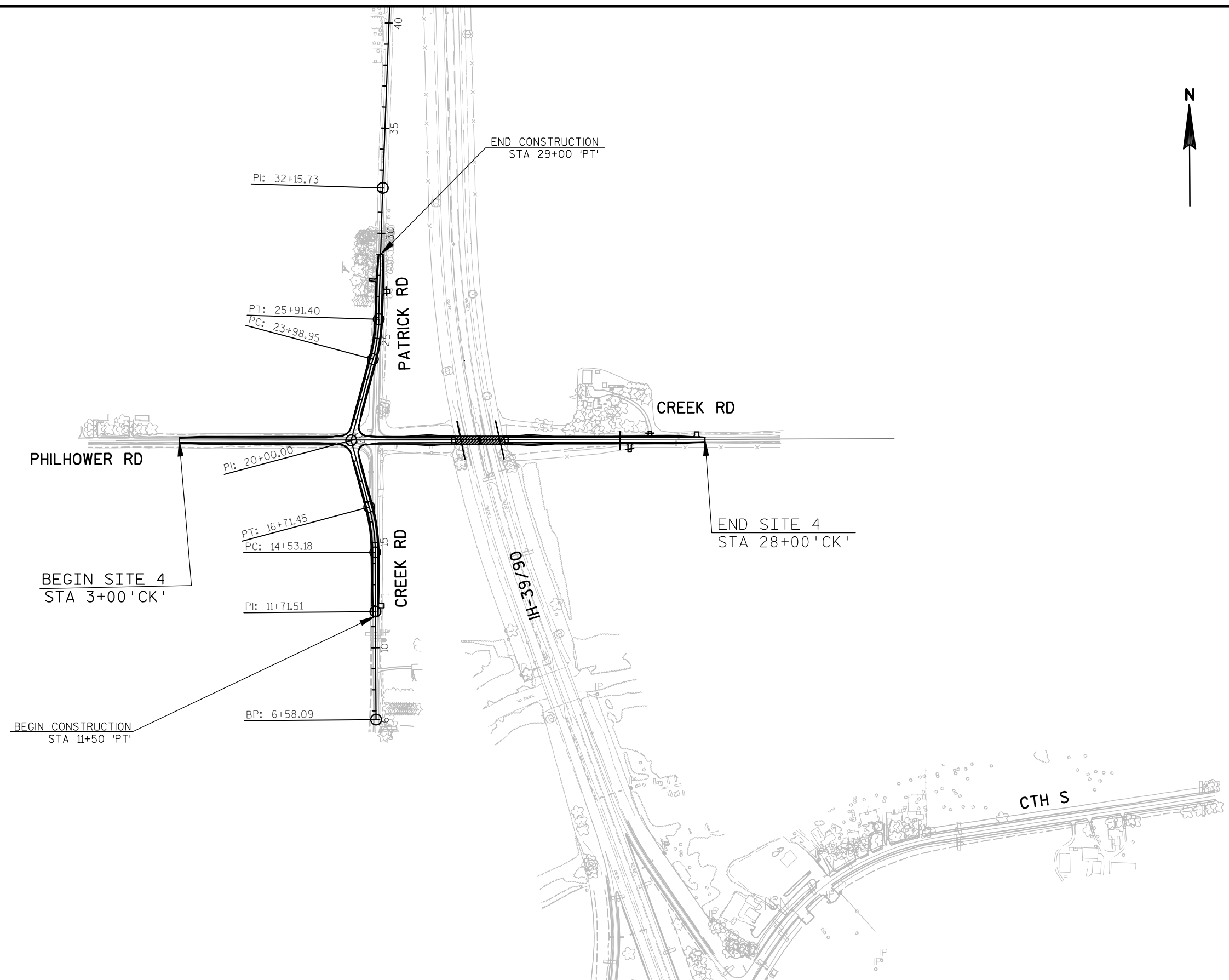


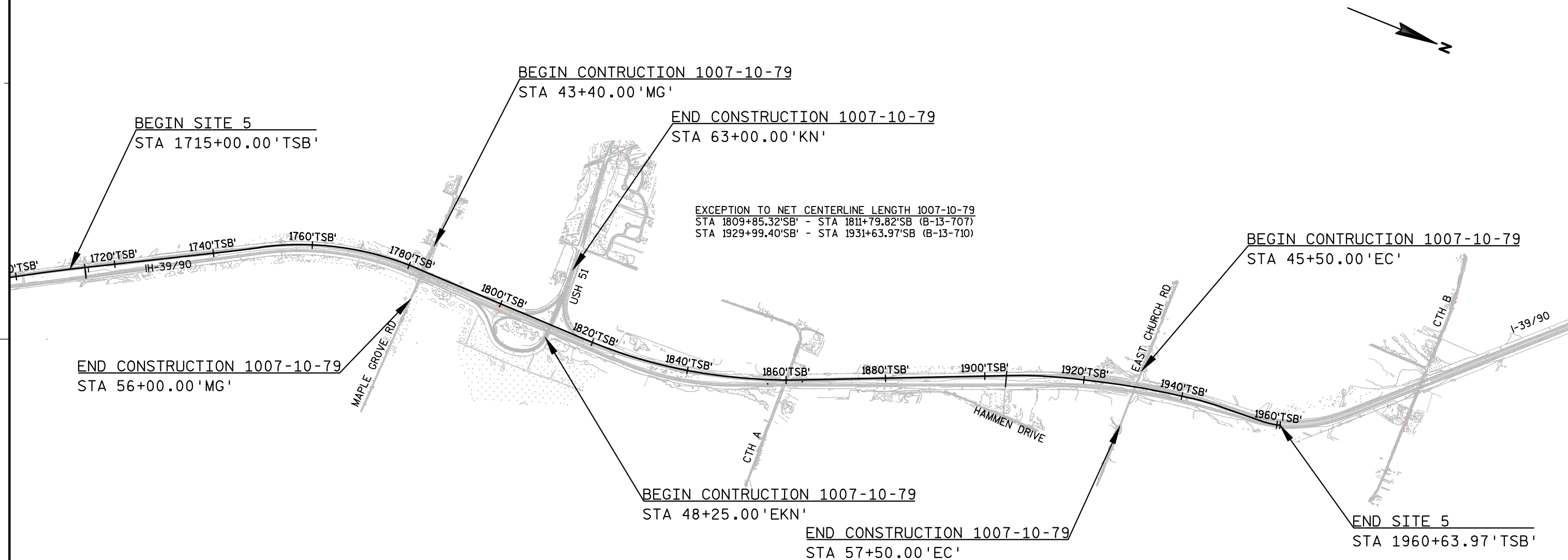
SITE 8

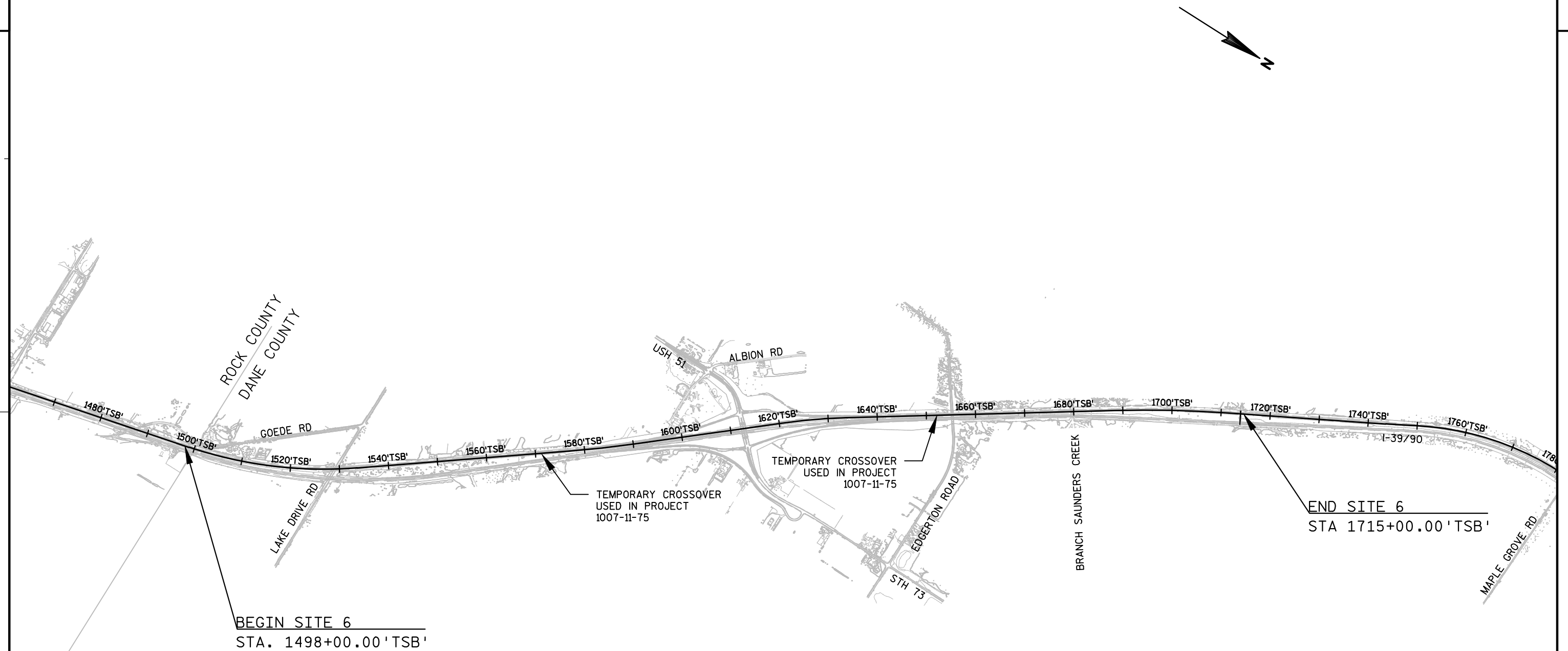












DATE 08DEC15		E S T I M A T E O F Q U A N T I T I E S			
LINE		5105-16-60			
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	201.0105	Clearing	STA	618.000	618.000
0020	SPV.0105	Special 01. Mobilization And Traffic Control Site 1	LS	1.000	1.000
0030	SPV.0105	Special 02. Mobilization And Traffic Control Site 2	LS	1.000	1.000
0040	SPV.0105	Special 03. Mobilization And Traffic Control Site 3	LS	1.000	1.000
0050	SPV.0105	Special 04. Mobilization And Traffic Control Site 4	LS	1.000	1.000
0060	SPV.0105	Special 05. Mobilization And Traffic Control Site 5	LS	1.000	1.000
0070	SPV.0105	Special 06. Mobilization And Traffic Control Site 6	LS	1.000	1.000
0080	SPV.0105	Special 07. Mobilization And Traffic Control Site 7	LS	1.000	1.000
0090	SPV.0105	Special 08. Mobilization And Traffic Control Site 8	LS	1.000	1.000

3

CLEARING - SITE 1

STATION - STATION		LOCATION	201.011 CLEARING (STA)
116+00 - 131+00		LT	15
137+00 - 157+00		LT	20
		TOTAL	35

site number 1

CLEARING - SITE 2

STATION - STATION		LOCATION	201.0105 CLEARING (STA)
463+00 - 470+00		LT	7
502+00 - 509+00		LT	7
575+00 - 577+00		LT	2
588+00 - 589+00		LT	1
600+00 - 601+00		LT	1
		PROJECT TOTALS	18

site number 2

CLEARING - SITE 3

		LOCATION	201.011 CLEARING STA
WOODMAN ROAD			
STA	STA		
17+00	- 19+00	LT	2
17+00	- 19+00	RT	1
			3

site number 3

CLEARING-SITE 4

LOCATION	201.0105 CLEARING STA
STA. 21+00 'CK' - STA. 26+00 'CK'	5
STA. 26+00 'PT' - STA. 29+00 'PT'	3
TOTAL	8

site number 4

CLEARING - SITE 5

LOCATION		STATION		201.0105 CLEARING STA
IH 39 SB		1769+00	- 1772+00 'TSB'	3
MAPLE GROVE ROAD		43+00	- 49+00 'MG'	6
		51+00	- 54+00 'MG'	3
		SUBTOTAL		12
IH 39 SB		1772+00	- 1775+00 'SB'	3
		1780+00	- 1783+00 'SB'	3
		1783+00	- 1786+00 'SB'	3
		1787+00	- 1792+00 'SB'	5
		1796+00	- 1801+00 'SB'	5
		1809+00	- 1810+00 'SB'	1
		1815+00	- 1816+00 'SB'	1
		1819+00	- 1830+00 'SB'	11
		1861+00	- 1864+00 'TSB'	3
		1875+00	- 1879+00 'TSB'	4
		1882+00	- 1885+00 'TSB'	3
		1895+00	- 1896+00 'TSB'	1
		1914+00	- 1917+00 'TSB'	3
		1922+00	- 1926+00 'TSB'	4
		1931+00	- 1938+00 'SB'	7
USH 51		59+00	- 63+00 'KN'	4
RAMP KC		806+00	- 815+00 'KC'	9
RAMP KD		807+00	- 815+00 'KD'	8
		SUBTOTAL		78
EAST CHURCH ROAD		46+00	- 48+00 'CH'	2
		50+00	- 58+00 'CH'	8
		SUBTOTAL		10
				100
		TOTAL		100

site number 5

3

3

CLEARING - SITE 6

		201.0105 CLEARING	
STAGE	LOCATION	STATION	STA
1	IH 39 SB	1498+00 - 1500+00 'TSB'	2
		1503+00 - 1505+00 'TSB'	2
		1506+00 - 1512+00 'TSB'	6
		1516+00 - 1520+00 'TSB'	4
		1527+00 - 1529+00 'TSB'	2
		1530+00 - 1533+00 'TSB'	3
		1541+00 - 1542+00 'TSB'	1
		1543+00 - 1554+00 'TSB'	11
		1555+00 - 1557+00 'TSB'	2
		1560+00 - 1561+00 'TSB'	1
		1562+00 - 1577+00 'TSB'	15
		1639+00 - 1643+00 'TSB'	4
		1644+00 - 1646+00 'TSB'	2
		1652+00 - 1654+00 'TSB'	2
		1657+00 - 1702+00 'TSB'	45
		1703+00 - 1705+00 'TSB'	2
		1707+00 - 1715+00 'TSB'	8
		PROJECT TOTALS	112

site number 6

CLEARING - SITE 7

		201.0105 CLEARING	
STATION	-	STATION	STA
94+00	-	111+00	17
101+00 CR	-	102+00 CR	1
10+00 D	-	12+00 D	2
TOTAL			20

site number 7

CLEARING-SITE 8(1)

				201.0105 CLEARING
STATION	TO	STATION	LOCATION	STA.
109+87 (AH)	-	115+25 (AH)	"	7
127+00 (AH)	-	129+12 (AH)	"	3
130+50 (AH)	-	131+10 (AH)	"	2
133+73	-	138+80	"	6
144+17	-	145+87	"	2
148+62	-	149+41	"	2
151+06	-	153+09	"	3
155+00	-	158+87	"	4
162+16	-	174+46	"	13
175+26	-	177+75	"	3
179+60	-	181+41	"	3
181+41	-	186+60	"	6
190+38	-	207+00	"	18
209+08	-	209+87	"	1
212+43	-	246+78	"	35
248+22	-	261+53	"	14
266+00	-	302+73	"	37
306+16	-	336+87	"	31
341+33	-	373+59	"	33
377+25	-	423+11	"	47
425+61	-	425+97	"	1
429+37	-	429+83	"	1
431+70	-	433+70	"	3
439+03	-	446+38	"	8
101+50	-	102+57	NETTLETON ROAD (E)	2
98+25	-	99+10	NETTLETON ROAD (W	2
197+50	-	199+76	OAK ROAD	3
18+69	-	19+58	POPPLE ROAD	2
TOTAL				292

site number 8(1)

CLEARING-SITE 8 (2)

				201.0105 CLEARING
STATION	TO	STATION	LOCATION	STA.
635+50	-	636+50	STH 180	3
843+00	-	845+00	"	4
1036+00	-	1037+00	"	1
1271+00	-	1274+00	"	3
56+00	-	60+00	TWIN CREEK RD	4
65+00	-	67+00	IVY LN	2
78+00	-	80+00	SHADY LANE DR (N)	2
106+00	-	110+00	BORDERLINE RD	4
298+00	-	300+00	ISLAND VIEW RD (N)	2
128+00	-	129+00	CTH X	1
131+00	-	131+00	PARK PLACE DRIVE	1
138+00	-	140+00	OLD RAIL RD	2
149+00	-	150+00	FOUR LAKES RD	1
TOTAL				30
site number 8(2)				

CLEARING - PROJECT SUMMARY

LOCATION	201.0105 CLEARING STA
SITE 1	35
SITE 2	18
SITE 3	3
SITE 4	8
SITE 5	100
SITE 6	112
SITE 7	20
SITE 8	322
TOTAL	618

MOBILIZATION AND TRAFFIC CONTROL

LOCATION	LS
SITE 1	1
SITE 2	1
SITE 3	1
SITE 4	1
SITE 5	1
SITE 6	1
SITE 7	1
SITE 8	1
TOTAL	8

3

PROJECT NO: 5105-16-60

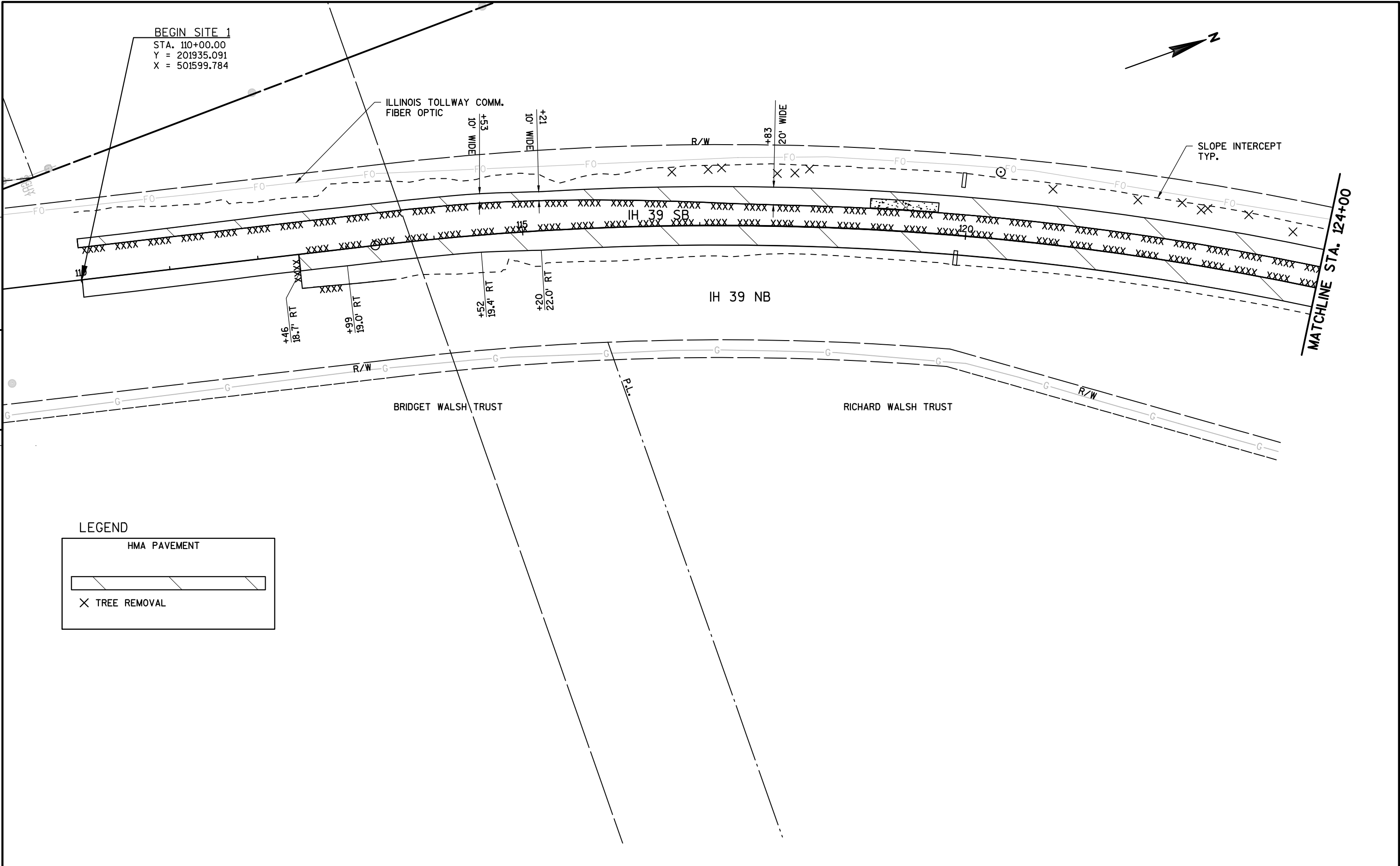
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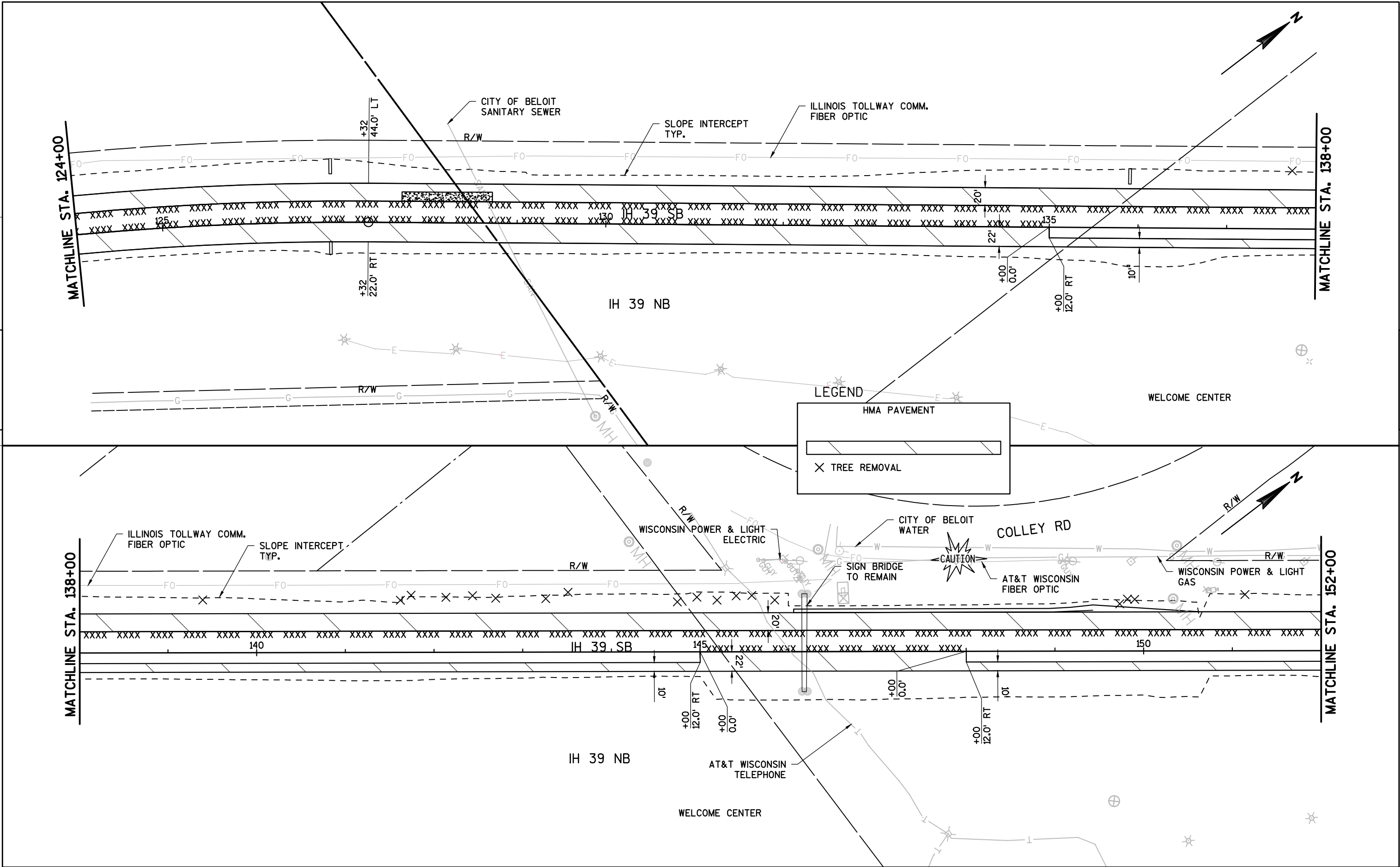
COUNTY:

MISCELLANEOUS QUANTITIES

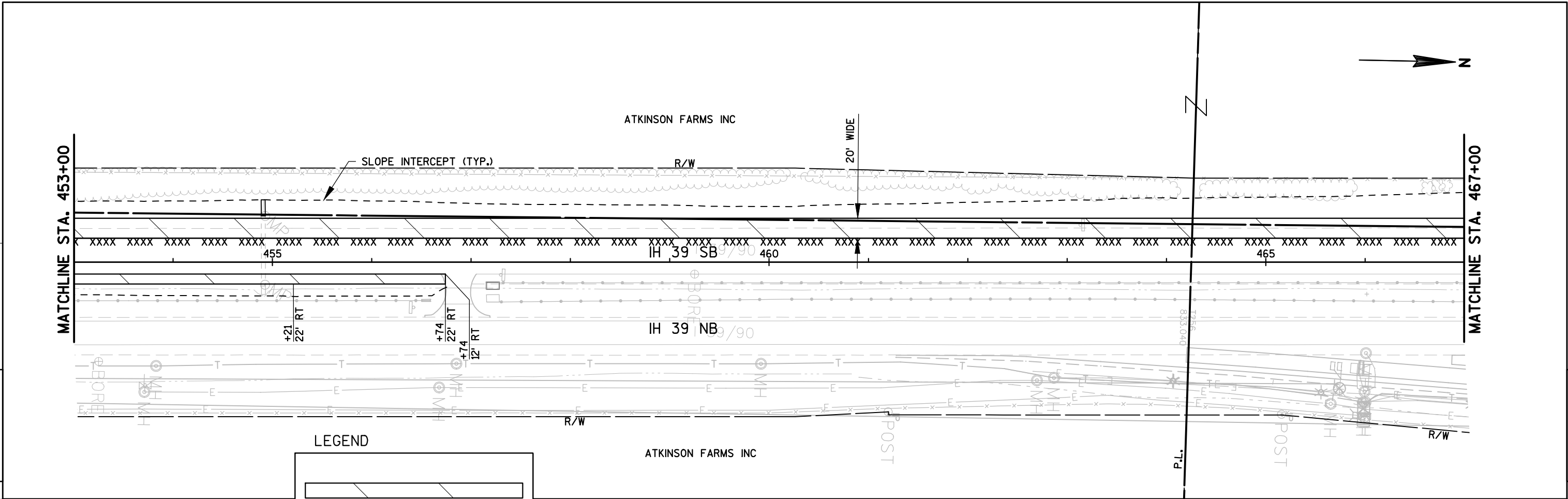
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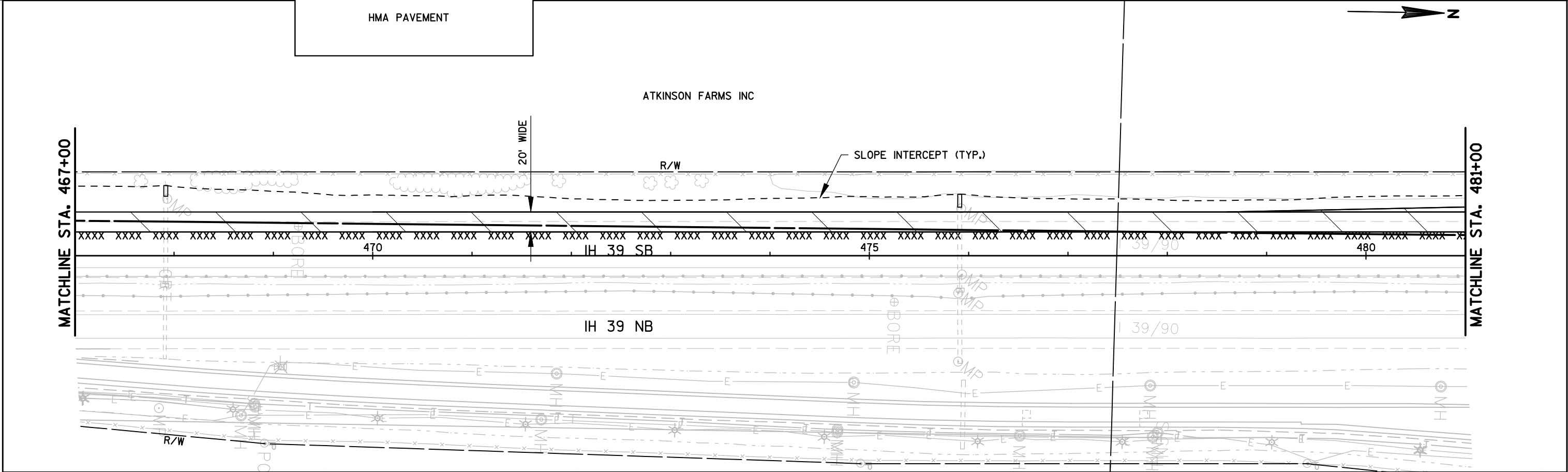




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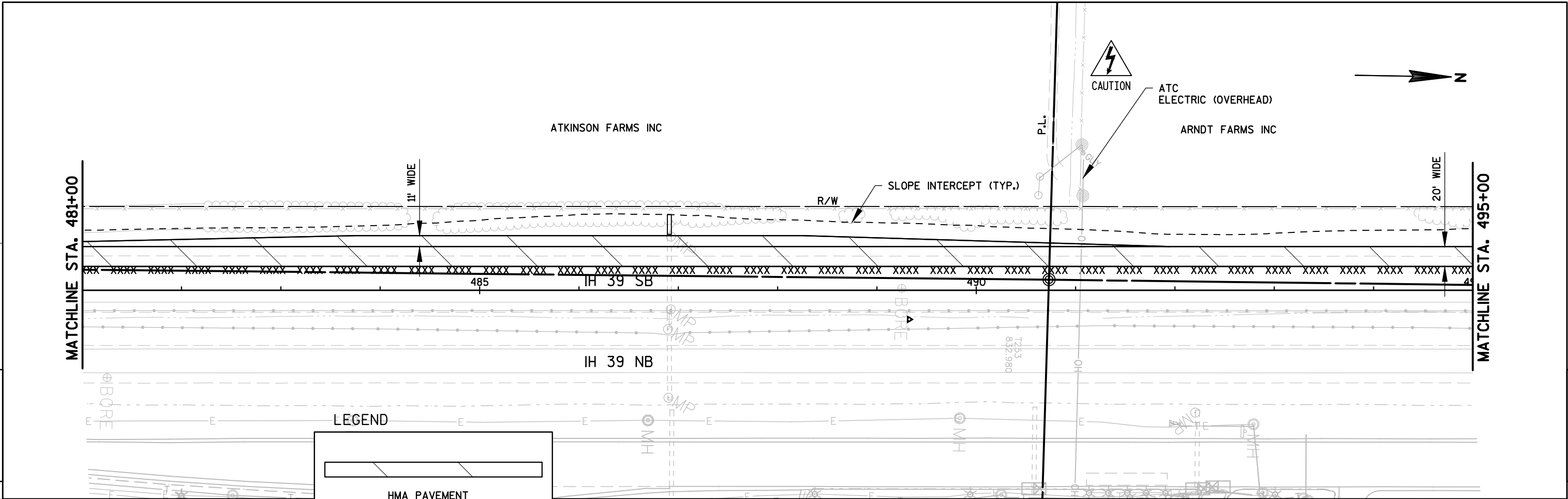


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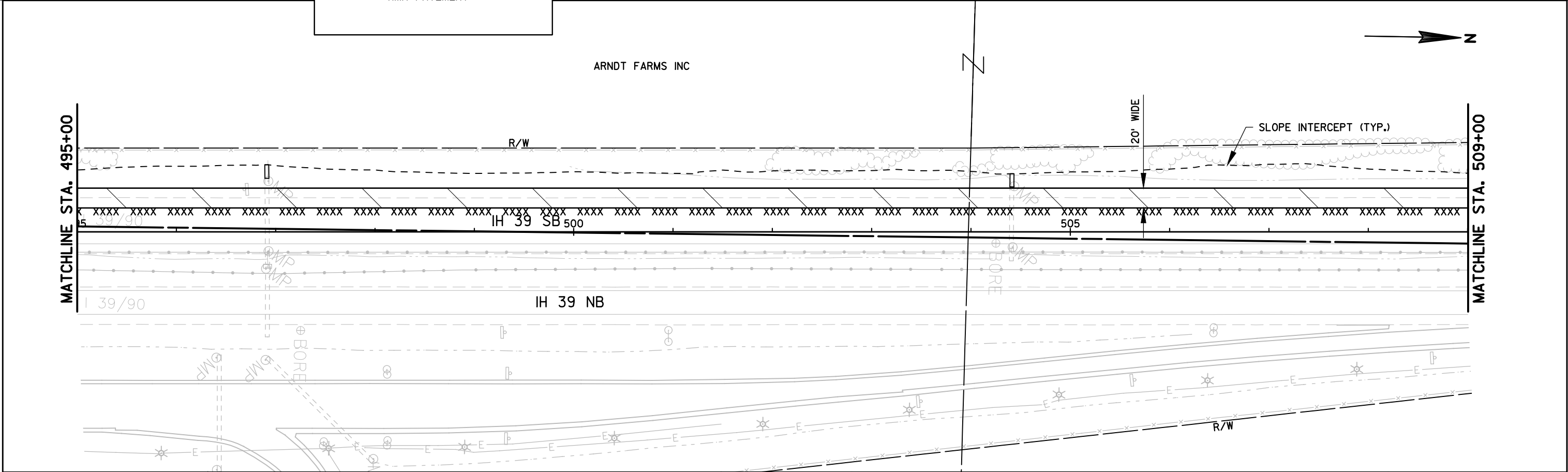


PROJECT NO: 5105-16-60	HWY: IH 39	COUNTY: ROCK	PLAN: SITE 2	SHEET	E
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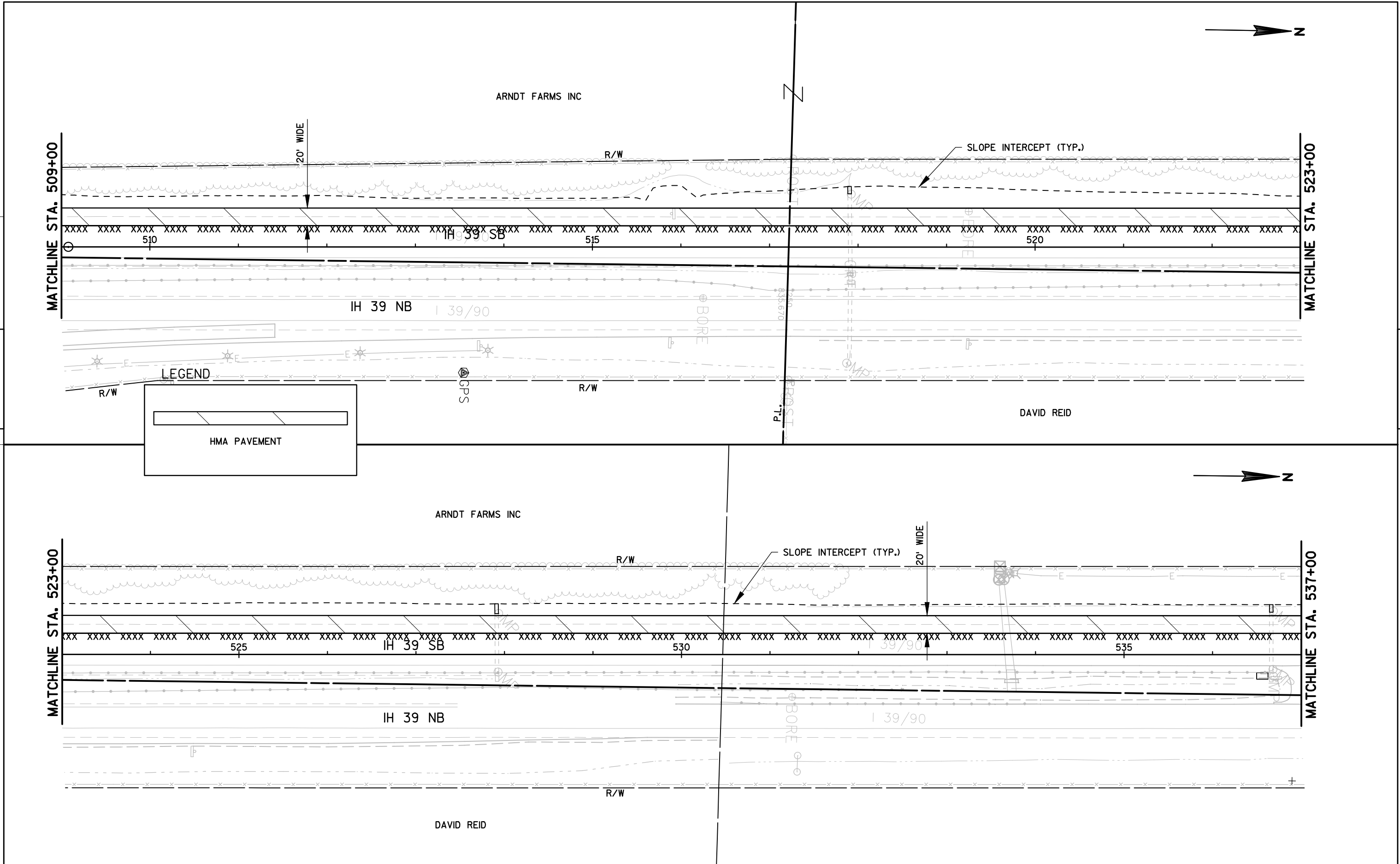
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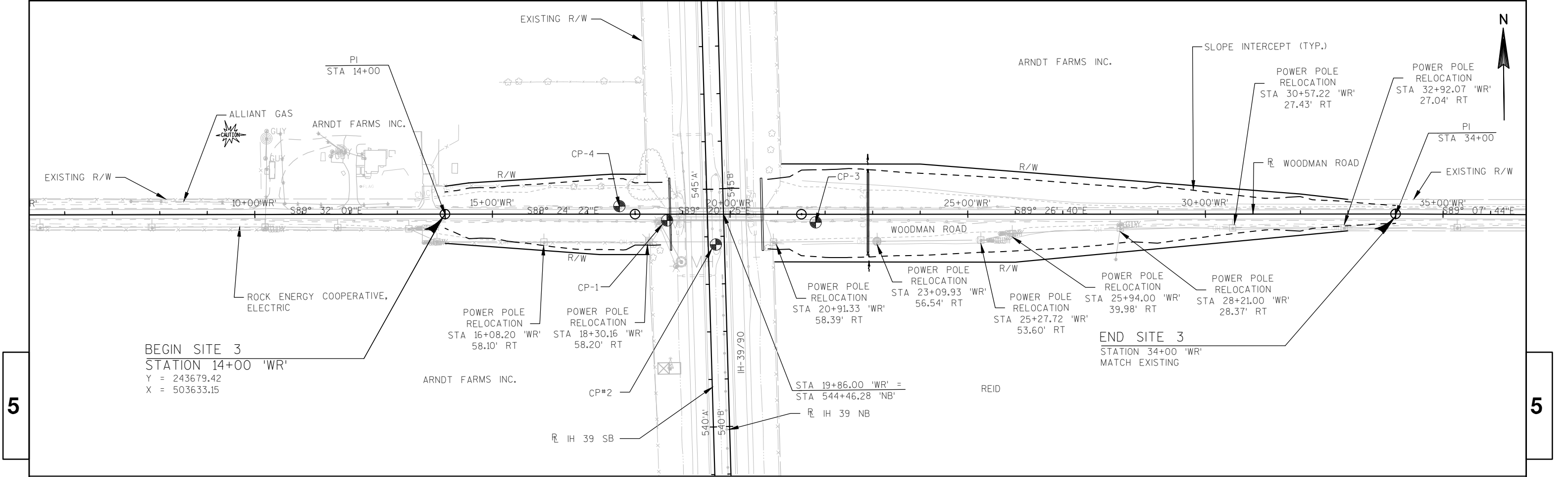
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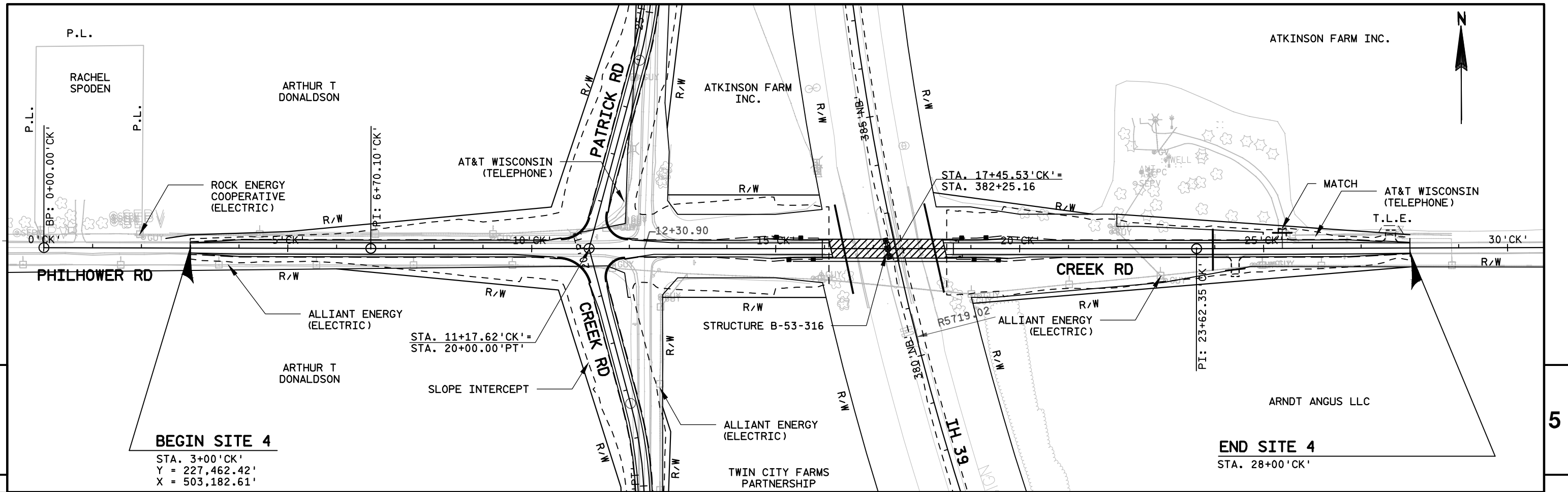


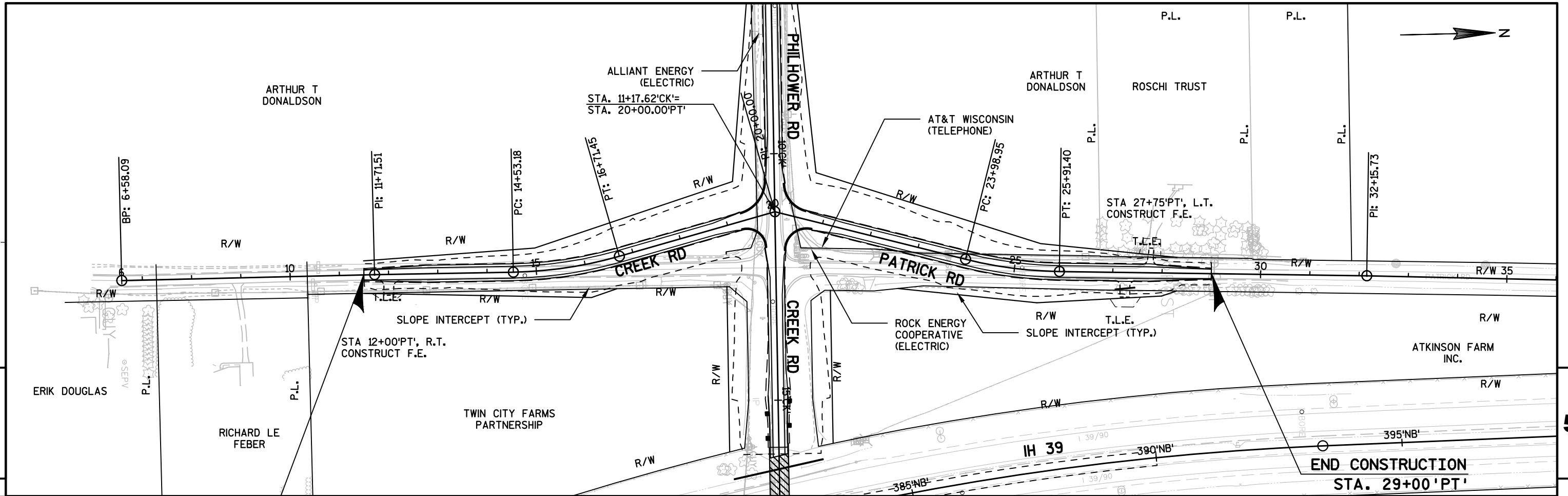
PROJECT NO: 5105-16-60	HWY: IH 39	COUNTY: ROCK	PLAN: SITE 2	SHEET	E
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PROJECT NO: 5105-16-60	HWY: IH 39	COUNTY: ROCK	PLAN: SITE 2	SHEET	E
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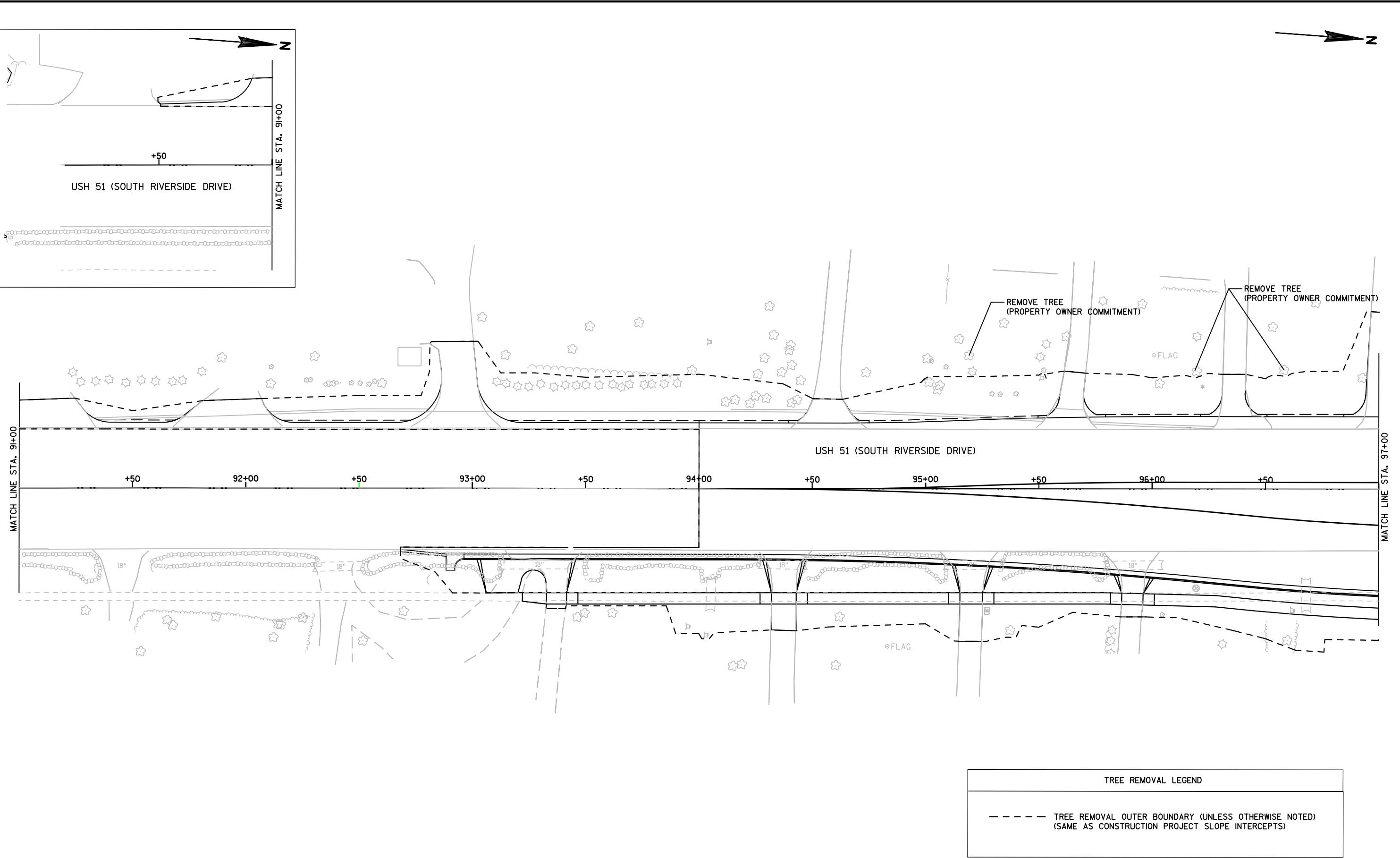
BEGIN CONSTRUCTION
STA. 11+50'PT'

END CONSTRUCTION
STA. 29+00'PT'

2



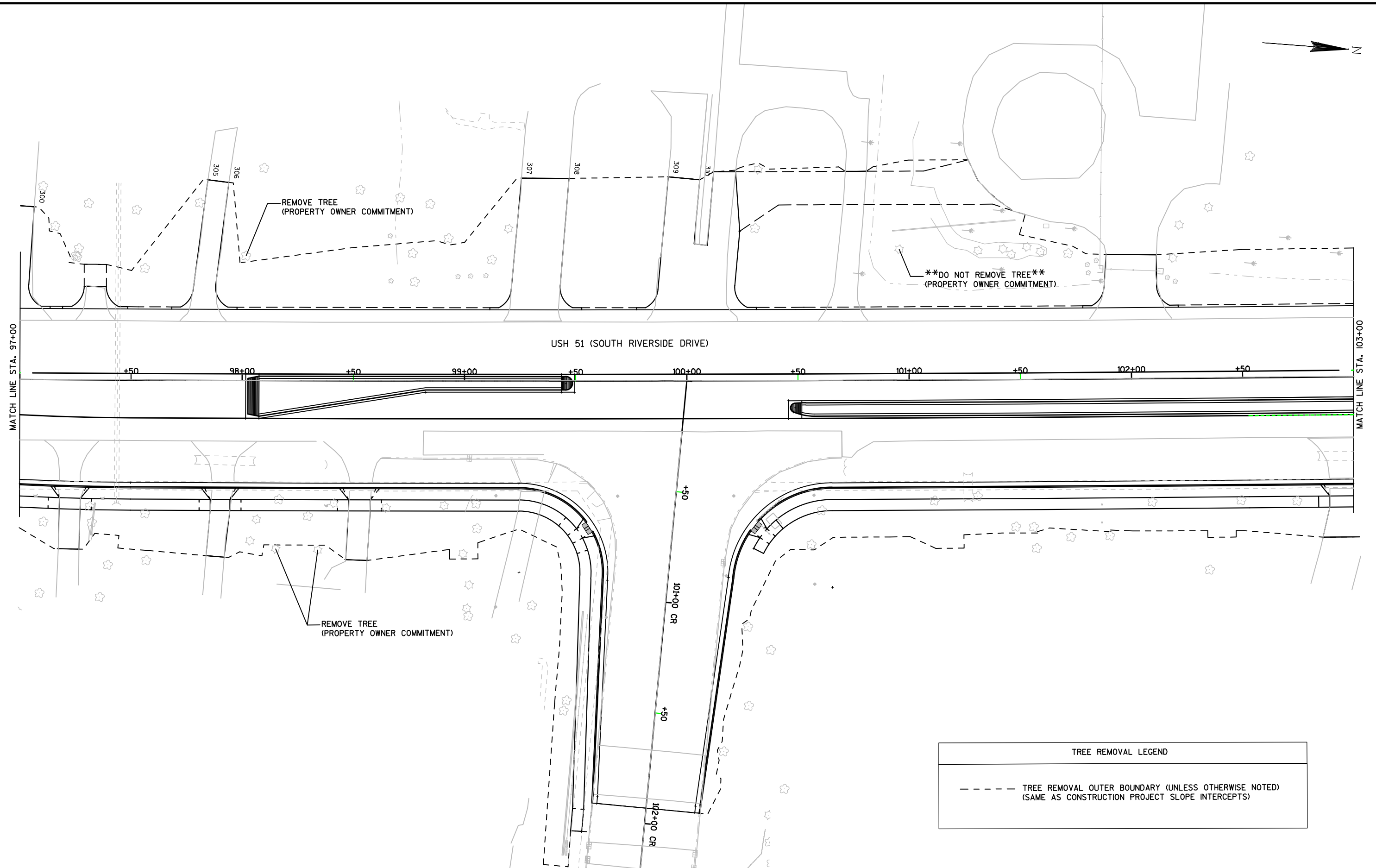
2



TREE REMOVAL LEGEND	
— — — — —	TREE REMOVAL OUTER BOUNDARY (UNLESS OTHERWISE NOTED) (SAME AS CONSTRUCTION PROJECT SLOPE INTERCEPTS)

2

2 |



PROJECT NO: 5105-16-60

HWY: USH 51

COUNTY: ROCK

PLAN DETAIL - SITE 7

SHEET

11

FILE NAME : C:\USERS\DOTL1H\DESKTOP\53500074-USH51 TREE REMOVAL\SITE 7_3DETAIL2.DWG
LAYOUT NAME - ****

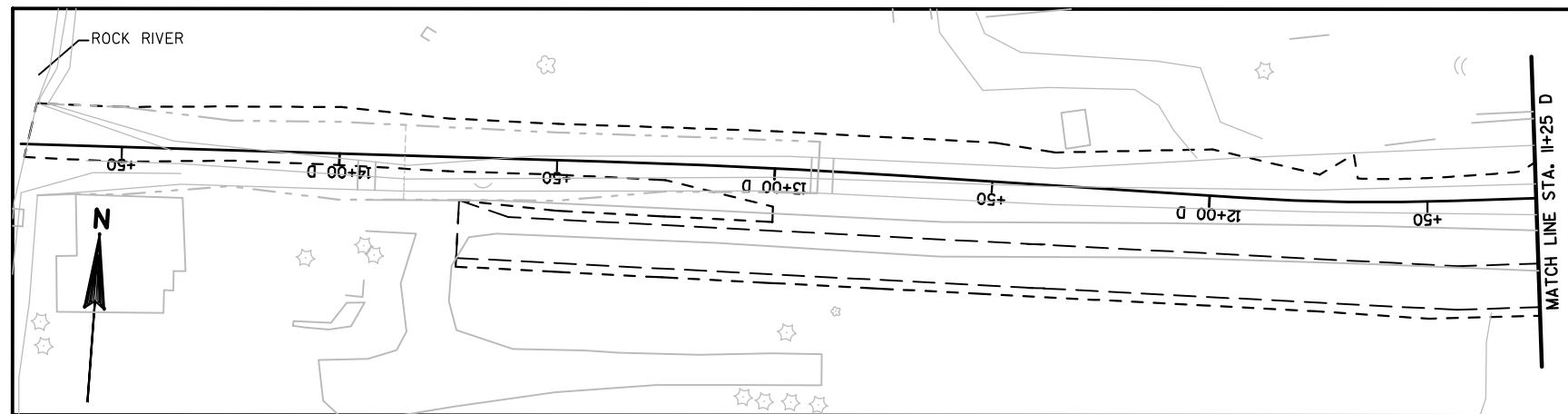
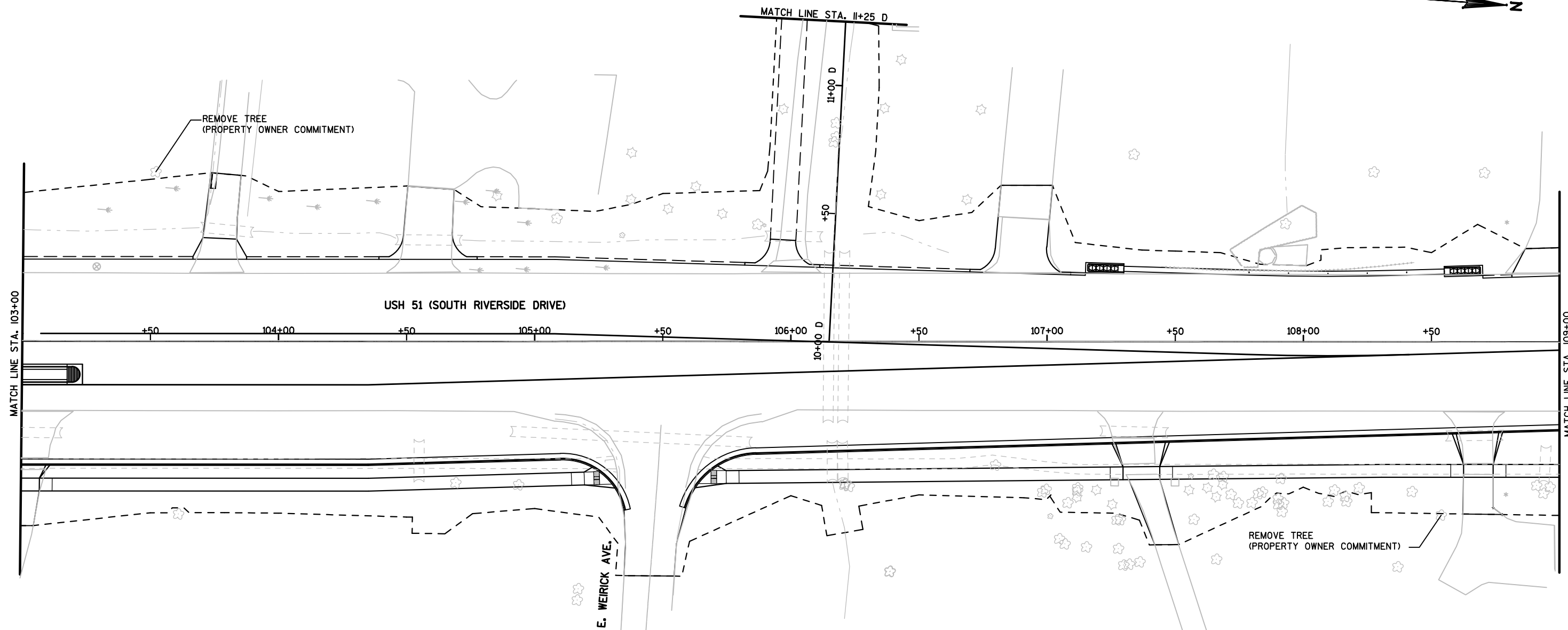
PLOT DATE : 12/7/2015 2:49 PM

PLOT BY : HERRMANN, LISA J

PLOT NAME :

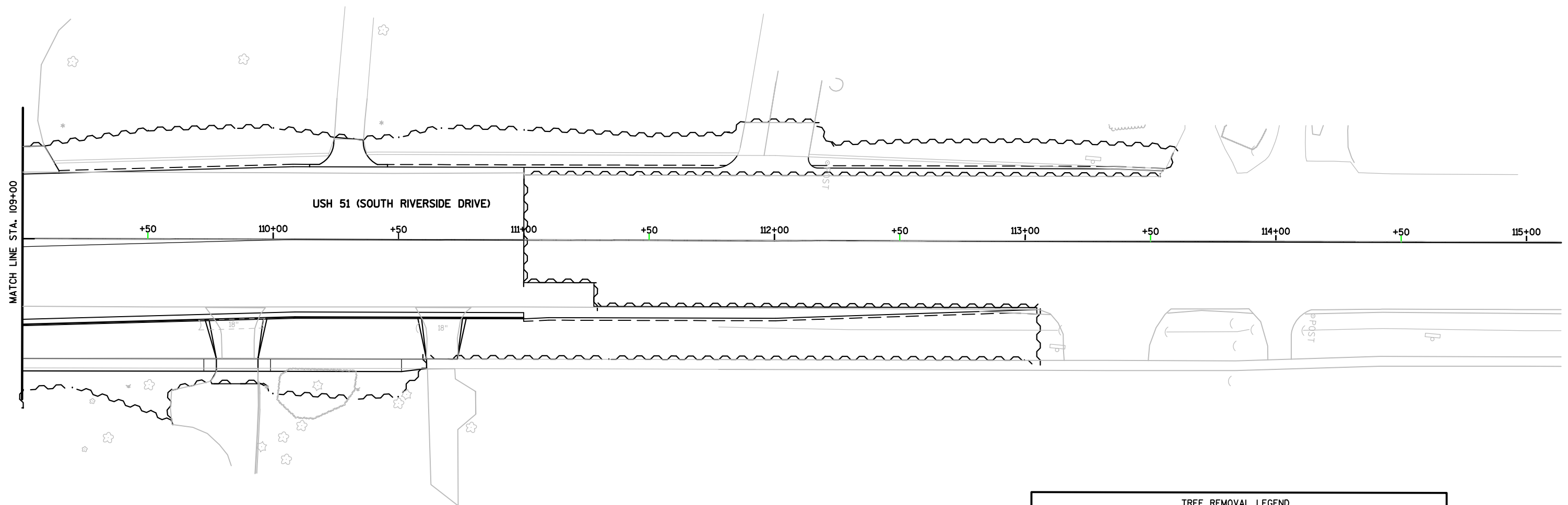
PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



TREE REMOVAL LEGEND

----- TREE REMOVAL OUTER BOUNDARY (UNLESS OTHERWISE NOTED)
(SAME AS CONSTRUCTION PROJECT SLOPE INTERCEPTS)



TREE REMOVAL LEGEND	
	TREE REMOVAL OUTER BOUNDARY (UNLESS OTHERWISE NOTED) (SAME AS CONSTRUCTION PROJECT SLOPE INTERCEPTS)

Standard Detail Drawing List

15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15D27-02	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

LEGEND

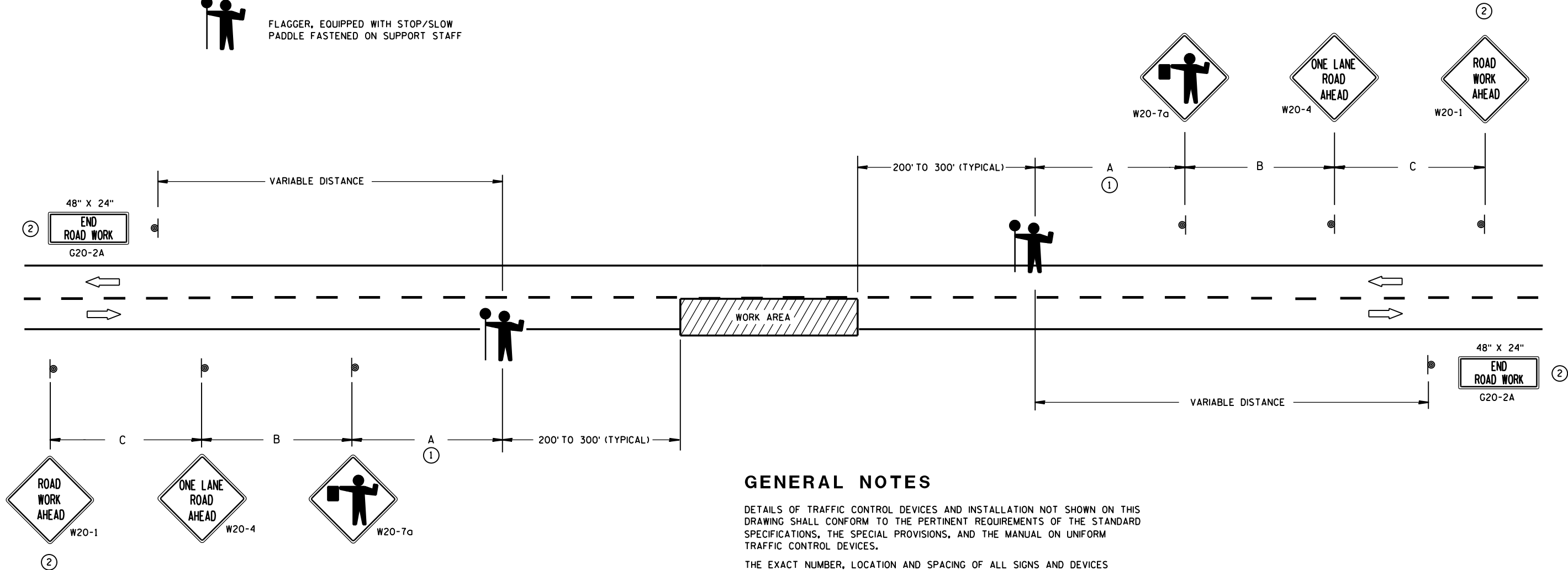
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A,B,C
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



GENERAL NOTES

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

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

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

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

- ① FOR A MOVING WORK OPERATION, SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- ② SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

LEGEND

- TRAFFIC CONTROL DRUM
- ⦿ SIGN ON PERMANENT SUPPORT
- ➡ DIRECTION OF TRAFFIC
- ⚡➡ FLASHING ARROW BOARD
- ▨ WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

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

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

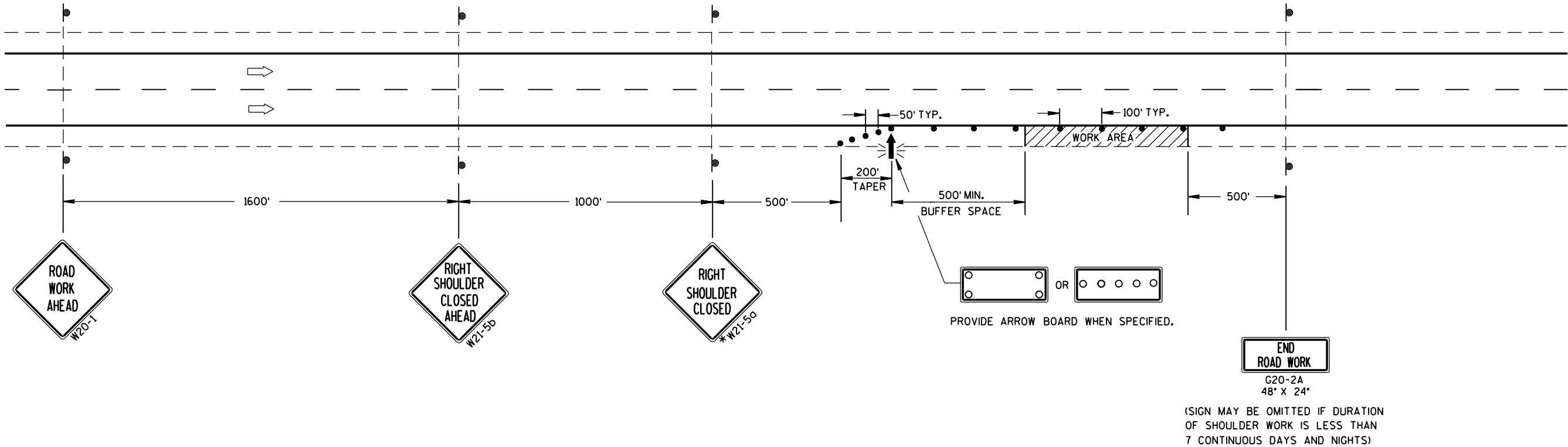
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL
SHOULDER CLOSURE ON DIVIDED
ROADWAY, SPEEDS GREATER
THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

GENERAL NOTES

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

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

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

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.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

TABLE A

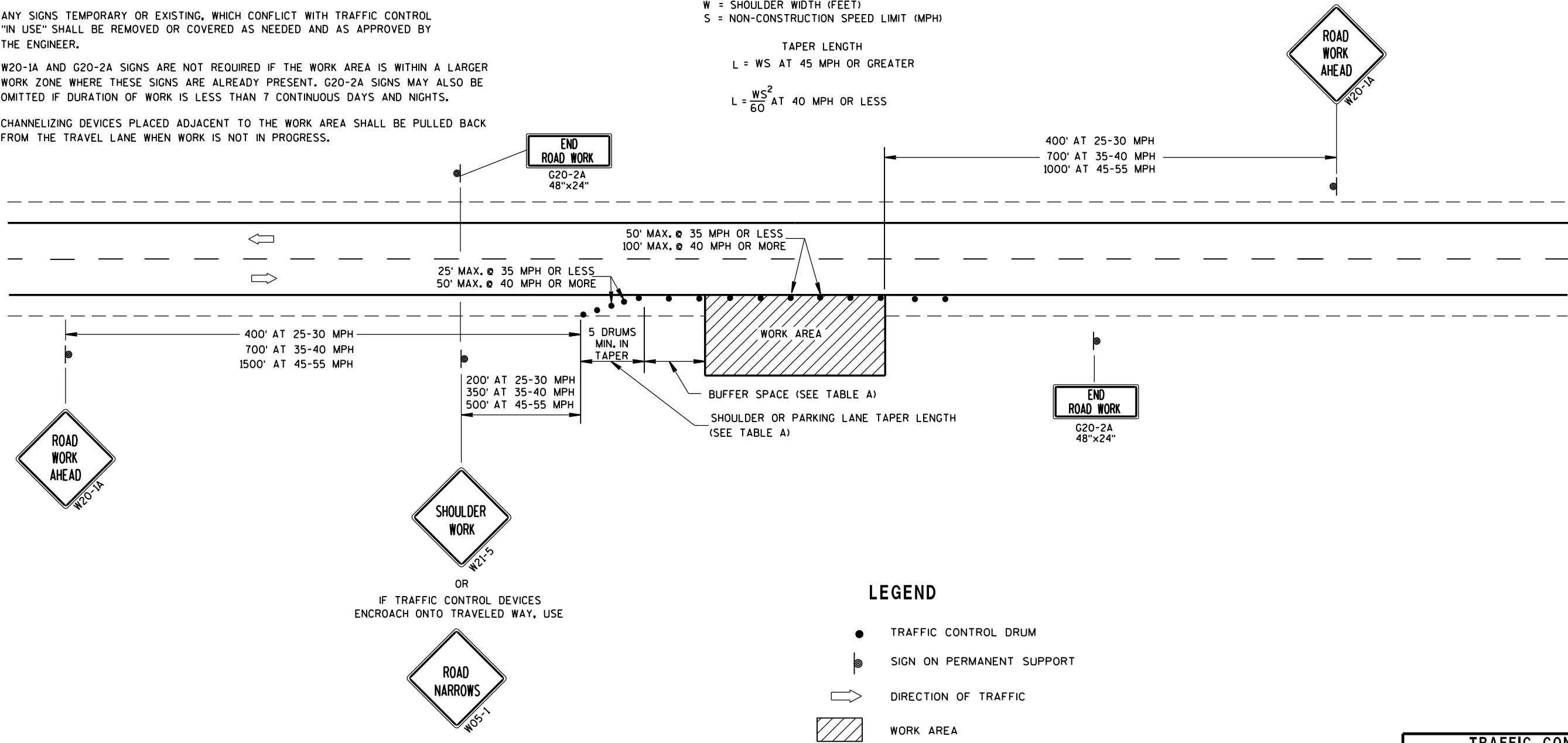
SHOULDER TAPER LENGTH (FEET)					BUFFER SPACE (FEET)
S \ W	4	6	8	10	
30	20	30	40	50	200
35	30	45	55	70	250
40	40	55	75	90	305
45	60	90	120	150	360
50	70	100	135	170	425
55	75	110	150	185	495

W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH
L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

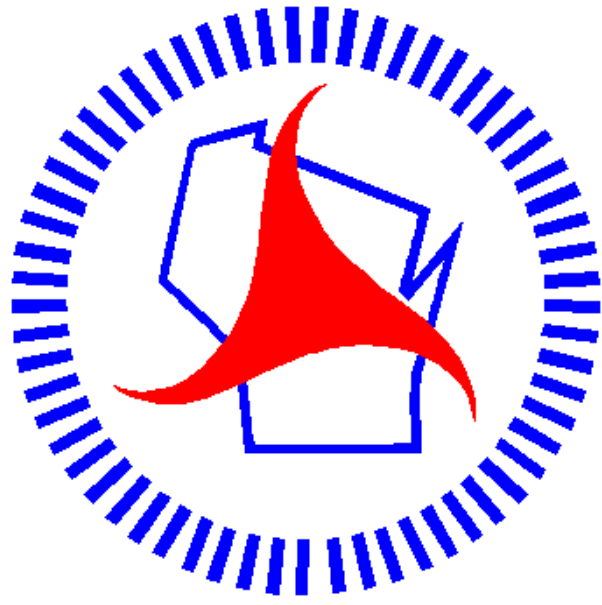
SHOULDER TAPER LENGTH = $\frac{1}{3}L$



LEGEND

- TRAFFIC CONTROL DRUM
- ⦿ SIGN ON PERMANENT SUPPORT
- ➡ DIRECTION OF TRAFFIC
- ▨ WORK AREA

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED July 14, 2015 DATE	/S/ Peter Amakobe Atepe STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA	



Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

<http://www.dot.wisconsin.gov>