

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
9200-10-73	WISC 2023109	1

PLAN OF PROPOSED IMPROVEMENT

STH 156 - IH 41

STH 29

BROWN COUNTY

STATE PROJECT NUMBER
9200-10-73



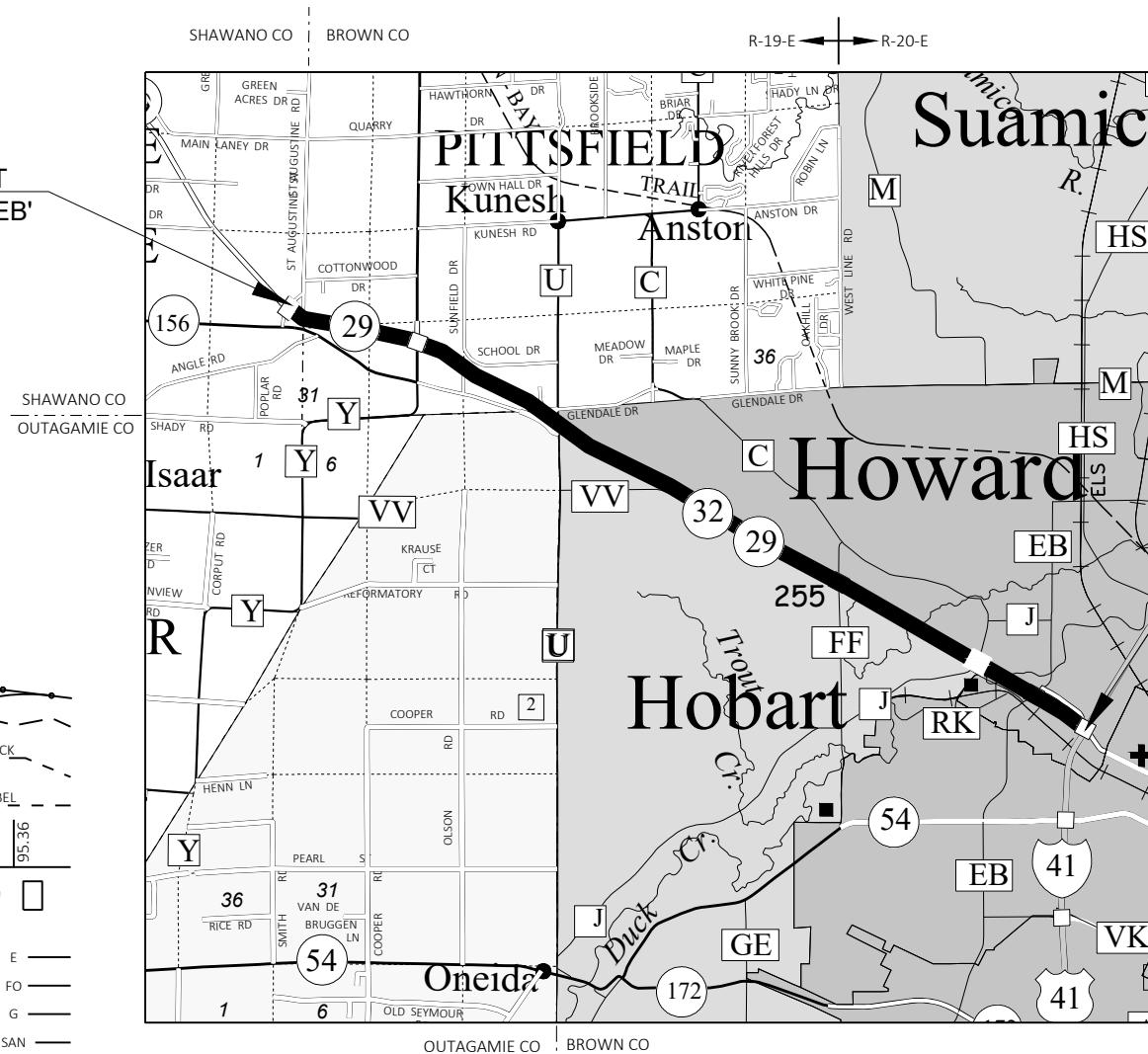
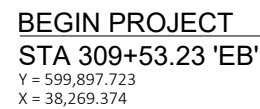
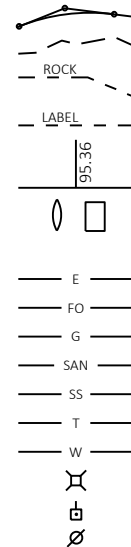
A.A.D.T.	2027	=	27,880
A.A.D.T.	2047	=	30,320
D.H.V.		=	
D.D.		=	50/50
T.		=	16%
DESIGN SPEED		=	65 MPH/70 MPH
ESALS		=	9,170,000

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	

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



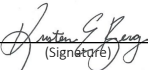
T-25-N
↑
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T-24-N

END PROJECT
STA 744+92.28 'EB'
Y = 579,958.641
X = 76,547.779

SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 0.000 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), BROWN COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
PREPARED BY	
Surveyor	_____ NE REGION
Designer	_____ K. LORENZ
Project Manager	_____ K. BERG
Regional Examiner	_____
Regional Supervisor	_____ D. SEGERSTROM
APPROVED FOR THE DEPARTMENT	
DATE: <u>10-3-2022</u>	 _____ (Signature)

GENERAL NOTES

THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

THE ENGINEER SHALL ADJUST THE LOCATIONS OF FENCE UNDER THIS CONTRACT TO AVOID CONFLICT WITH THE EXISTING UTILITY FACILITIES.

THE ENGINEER SHALL ADJUST THE LOCATIONS OF FENCE UNDER THIS CONTRACT TO CONSTRUCT FENCE BETWEEN WISDOT FIBER AND HIGHWAY RIGHT OF WAY. CONTACT RANDY ASMAN, (920) 360-3107, IF THERE ARE ISSUES MEETING THIS REQUIREMENT.

THE EXACT CONSTRUCTION LIMITS AND LOCATIONS OF ALL ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

ORDER OF SECTION 2 DETAIL SHEETS

- GENERAL NOTES
- PROJECT OVERVIEW
- CONSTRUCTION DETAILS
- PLANTING GUIDELINES/DETAILS
- PLAN DETAILS/ALIGNMENT PLAN

DNR LIAISON

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JIM DOPERALSKI JR.
(920)412-0165
james.doperalski@wisconsin.gov

BROWN COUNTY HIGHWAY COMMISSIONER

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NE REGION SURVEY COORDINATOR

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WISDOT PROJECT MANAGER

KRISTEN BERG, PE
944 VANDERPERREN WAY
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UTILITIES CONTACTS

COMMUNICATIONS

AT&T WISCONSIN
VICTORIA KASSAB
205 S JEFFERSON ST
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(920) 401-7512
vk352k@att.com

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BROOKFIELD, WI 53045
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MOBILE: (715) 415-3214
Jason.Busse@lumen.com

NET LEC LLC
RICK VINCENT
470 SECURITY BLVD
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Rick.Vincent@nsight.com

SPECTRUM
VINCE ALBIN
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MOBILE: (920) 378-0444
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ONEIDA TRIBE OF INDIANS UTILITY DEPT
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GAS/PETROLEUM

WISCONSIN PUBLIC SERVICE CORPORATION
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dvosberg@atcllc.com

WATER & SEWER

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VILLAGE OF HOBART WATER & SEWER DEPT
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VILLAGE OF HOWARD WATER & SEWER DEPT
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gfarr@villageofhoward.com

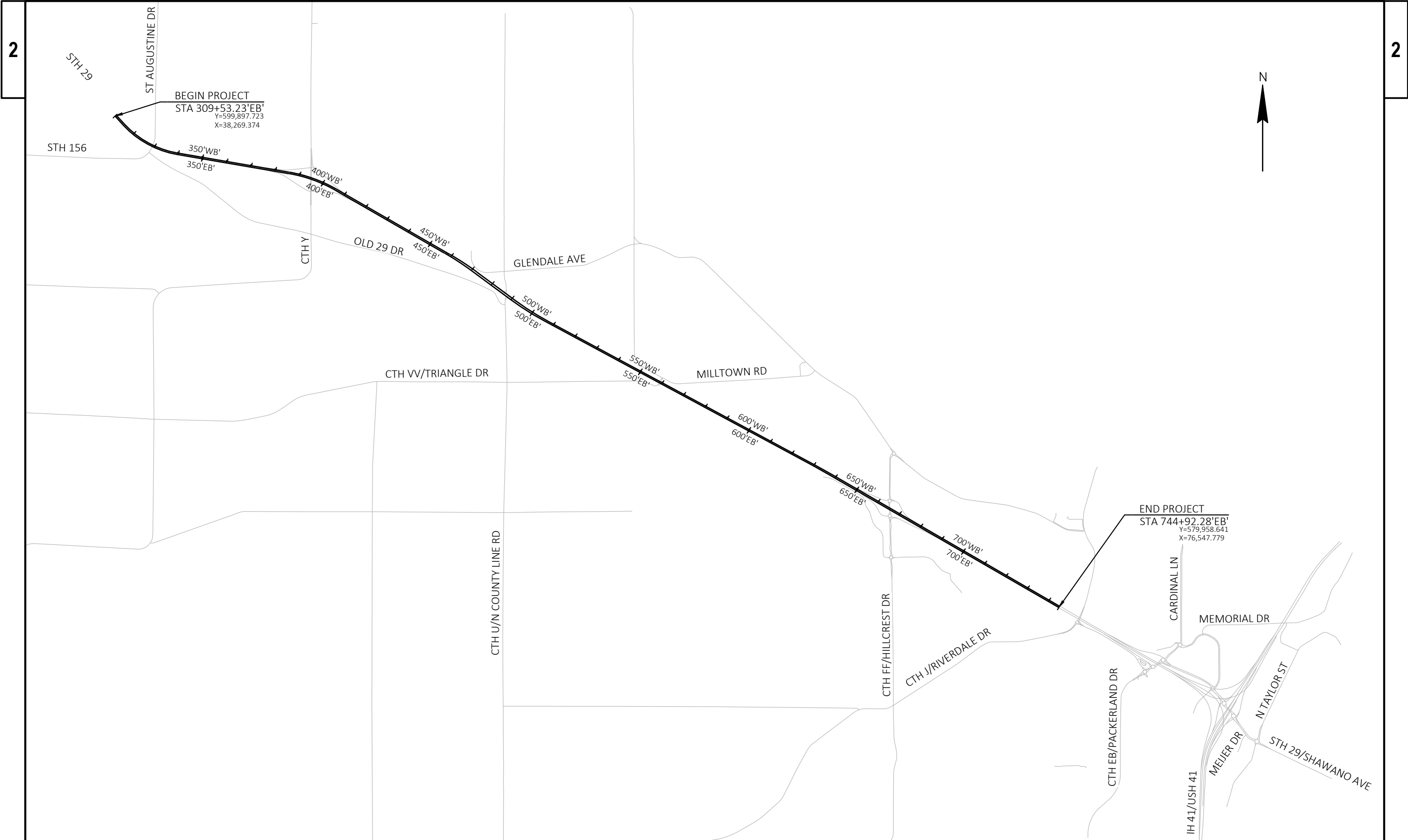
RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56
MEDIAN STRIP-TURF	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
SIDE SLOPE-TURF			.25			.27			.28			.30
			.32			.34			.36			.38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

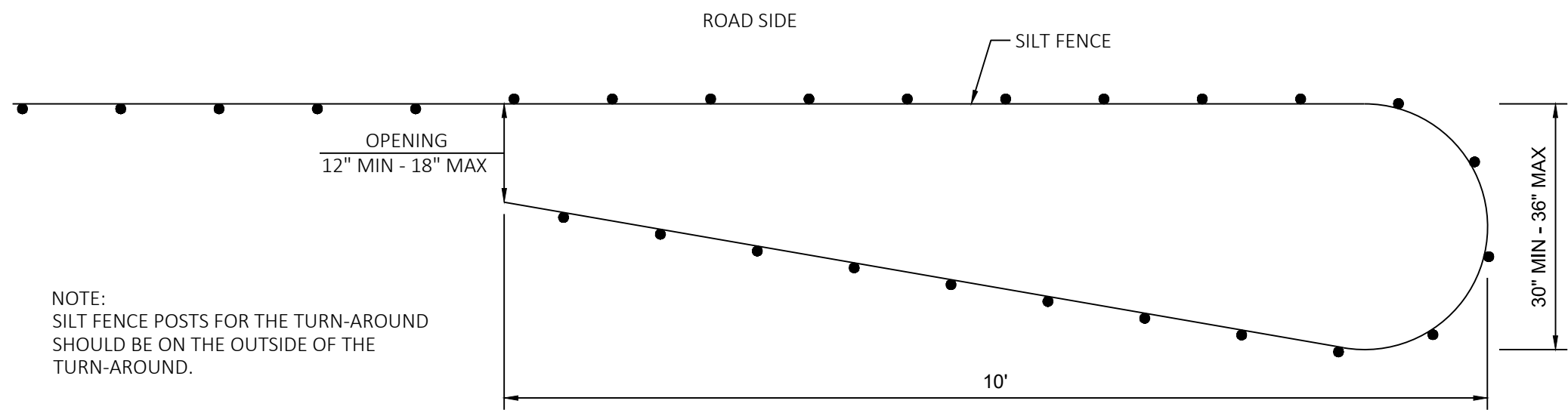
TOTAL PROJECT AREA = _____ ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = _____ ACRES



Dial 811 or (800)242-8511
www.DiggersHotline.com

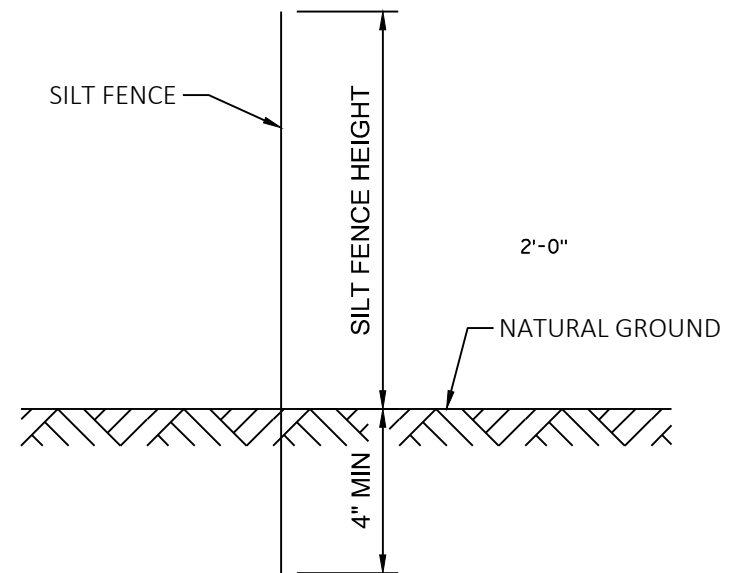


PROJECT NO: 9200-10-73	HWY: STH 29	COUNTY: BROWN	PROJECT OVERVIEW	SHEET 3	E
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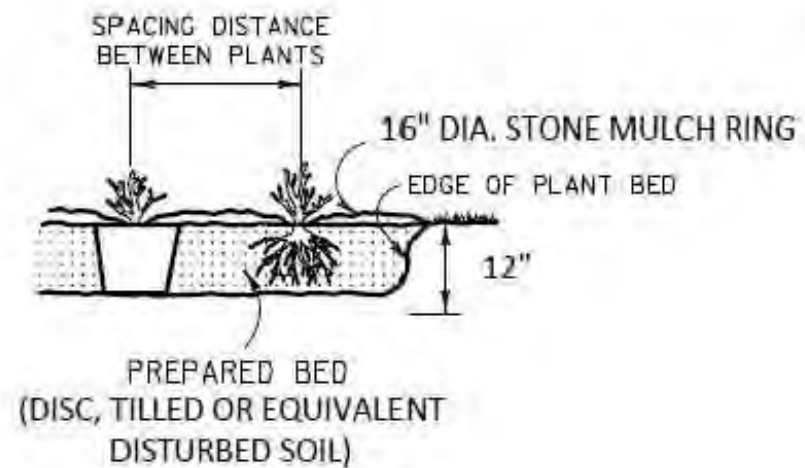
NOTE:
SILT FENCE POSTS FOR THE TURN-AROUND
SHOULD BE ON THE OUTSIDE OF THE
TURN-AROUND.

PLAN VIEW

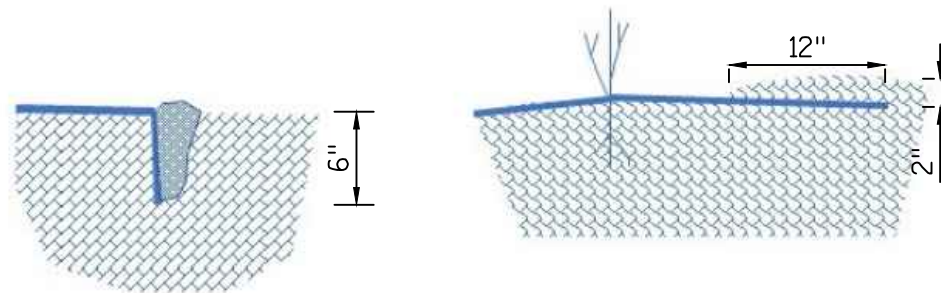


SIDE VIEW

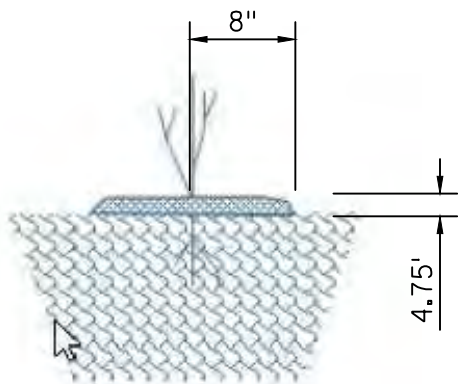
SILT FENCE TURN-AROUND DETAIL



PLANTING BED DETAIL



FABRIC EDGE DETAIL



GRAVEL RING DETAIL

Planting Process Expectations

ENDANGERED SPECIES EXPECTATIONS

- MOWING MUST BEGIN THE FIRST WEEK OF APRIL, TO A MAX HEIGHT OF 6-INCHES.
- MOWING MUST BE MAINTAINED UP TO THE DATE OF INSTALL TO PREVENT NESTING OF ENDANGERED SPECIES.
- CONTRACTOR WILL TAKE GREAT CARE TO WATCH FOR, AND REMOVE, ANY TURTLES FOUND WITHIN THE LIMITS OF THE PROJECT SITE FOR THE DURATION OF THE PROJECT.

INITIAL PLANTING

1. IF REQUIRED PER THE PLAN SET CLEAR AND GRUB WOODY VEGETATION.
2. APPLY HERBICIDE TO PLANTING SITE TO KILL EXISTING WEEDS.
 - APPLY MINIMUM DAYS PRIOR TO CULTIVATING SITE BASED ON MANUFACTURERS APPLICATION INSTRUCTIONS
 - APPLICATOR MUST BE CERTIFIED AND LICENSED
2. MOW AND MAINTAIN SITE TO A HEIGHT NO MORE THAN 6-INCHES.
3. WITHIN 7 DAYS OF SEEDLING STOCK INSTALLATION PREPARE PLANTING BED BY DISCING, TILLING OR EQUIVALENT PROCESS.
 - MINIMUM SOIL DISTURBANCE TO BE 12-INCHES DEPTH AND 12-INCHES WIDTH PER ROW. SEE DETAIL.
4. APPLY PRE-EMERGENT HERBICIDE TO THE PLANTING BED.
 - MINIMUM DAYS PRIOR TO PLANTING THE SEEDLING STOCK SITE BASED ON MANUFACTURERS APPLICATION INSTRUCTIONS
 - APPLICATOR MUST BE CERTIFIED AND LICENSED
5. SOAK SEEDLING STOCK ROOTS 1 TO 24 HOURS PRIOR TO PLANTING.
6. PLANT SEEDLING STOCK AND INSTALL SPECIFIED WEED BARRIER FABRIC OR EQUIVANT. PICK FROM TWO OPTIONS.

HAND PLANTING OPTION	MACHINE PLANTING OPTION
A. PLACE SPECIFIED WEED BARRIER FABRIC OR EQUIVILANT. SEE STEP 7 FOR MORE DETAILS.	A. MACHINE PLANT SEEDLING STOCK WITH PULL BEHIND PLANTER
B. HAND PLANT SEEDLING STOCK THOUGH THE FABRIC	B. PLACE SPECIFIED WEED BARRIER FABRIC OR EQUIVILANT. SEE STEP 7 FOR MORE DETAILS.

7. FABRIC INSTALLATION SHALL FOLLOW THESE GUIDELINES
 - INSTALLATION SHALL BE THE WIDTH OF THE PLANTING BED, UNLESS APPROVED BY THE PROJECT ENGINEER.
 - ALL PLANTS SHOULD INSTALLED BE 1.5-FEET FROM ALL EDGES OF THE FABRIC.
 - WHEN CUTTING HOLES IN THE FABRIC INDIVIDUAL SLITS SHALL BE LARGE ENOUGH TO PULL THE SHRUB THROUGH AND NO MORE. EXCESS SPACE LEADS TO WEED COMPETION.
 - STAPLES SHALL BE PLACED ACCORDING TO MANUFACTURER'S RECOMMENDATION.
 - CONTRACTOR SHALL SECURE THE OUTSIDE EDGE OF FABRIC BY EITHER CREATEING A 2-INCH SOIL BERM ON THE OUTSIDE ONE FOOT OF FABRIC OR DEPRESS 6-INCHES OF OUTSIDE EDGE BELOW THE NATURAL GRADE TO PREVENT LIFTING. SEE DETAIL.
8. INSTALL PEA GRAVEL LANDSCAPE MULCH ON TOP OF FABRIC AROUND EACH PLANT HOLE. SEE DETAIL.
 - PEA GRAVEL MULCH SHALL BE USED TO PREVENT WEED GROWTH IN THE CUT SLITS MADE IN THE FABRIC.
 - SWEEP AND/OR BLOW ANY SOIL, STRAW MULCH, OR OTHER DEBRIS OFF THE TOP OF THE FABRIC PRIOR TO THE PLACEMENT OF THE PEA GRAVEL MULCH.
 - APPLY MULCH AT A 2-INCH DEPTH AS PER THE LIVING SNOW FENCE LAYOUT DETAIL SHEET.
 - USE ¾ INCH CRUSHED AND SCREENED STONE CHIPS IN PLACE OF THE PEA GRAVEL FOR STEEP SLOPES. STONE CHIPS MUST NOT BE LIMESTONE.

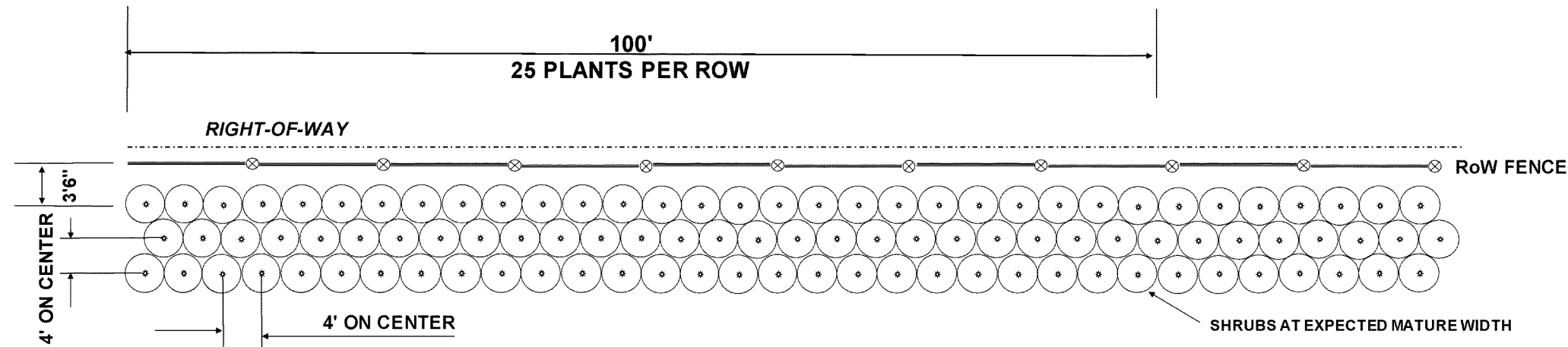
REPLACING DEAD SEEDLING STOCK (EACH SPRING FOLLOWING INTIAL PLANTING)

1. MOW OUTSIDE EDGES OF WEED FABRIC TO A HEIGHT NO MORE THAN 6"
2. APPLY PRE-EMERGENT TO OUTSIDE EDGES AND EXPOSED SOIL IN FABRIC OPENING.
3. REMOVE ANY DEAD PLANT
4. CREATE A DISTURBED SOIL STATE TO A DEPTH OF 12-INCHES
5. INSTALL SEEDLING STOCK REPLACEMENTS
6. BEGIN CARE CYCLE MAINTENANCE

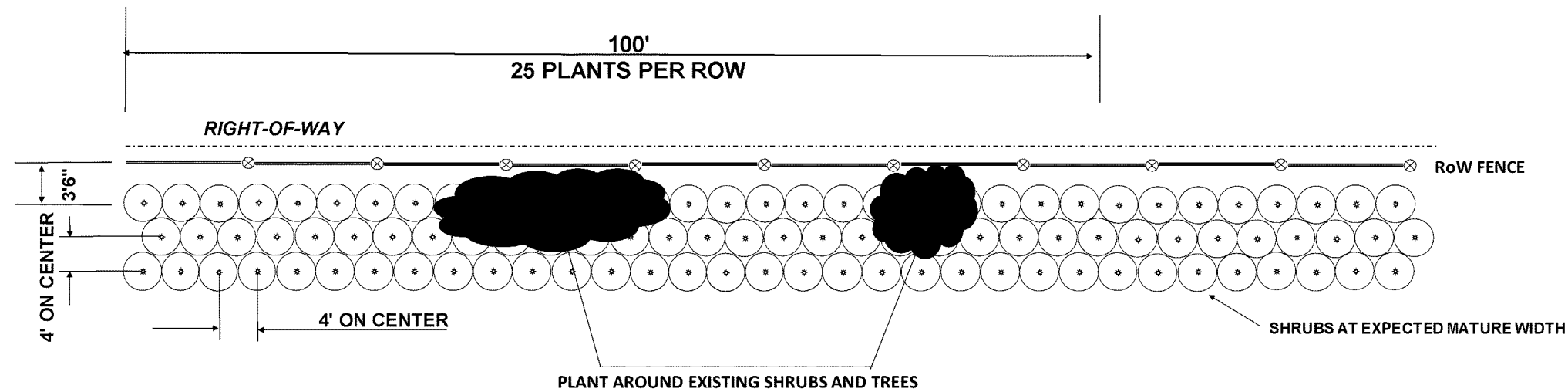
CARE CYCLE MAINTENANCE

1. TO BE PERFORMED AT A MINIMUM OF EVERY TWO WEEKS, TO A MAX OF 13 TOTAL CARE CYCLES PER GROWING SEASON
2. CONTROL WEEDS
 - HAND PULL WEEDS
 - SELECTIVE HERBICIDE TREATMENT WITH CAUTION
 - WEED EATERS/WHACKERS ARE NOT RECOMMENDED DUE HIGH POTENTIAL OF DAMAGE TO SEEDLINGS
3. WATER AS NEEDED
4. MOW SEVERAL TIMES IN THE SEASON TO CONTROL ENCROACHMENT OF UNWANTED VEGETATION.
 - OUTSIDE EDGES OF PLANTING AREA BY 3 TO 5-FEET
5. SUBMIT CARE CYCLE REPORTS EVERY CARE EVENT

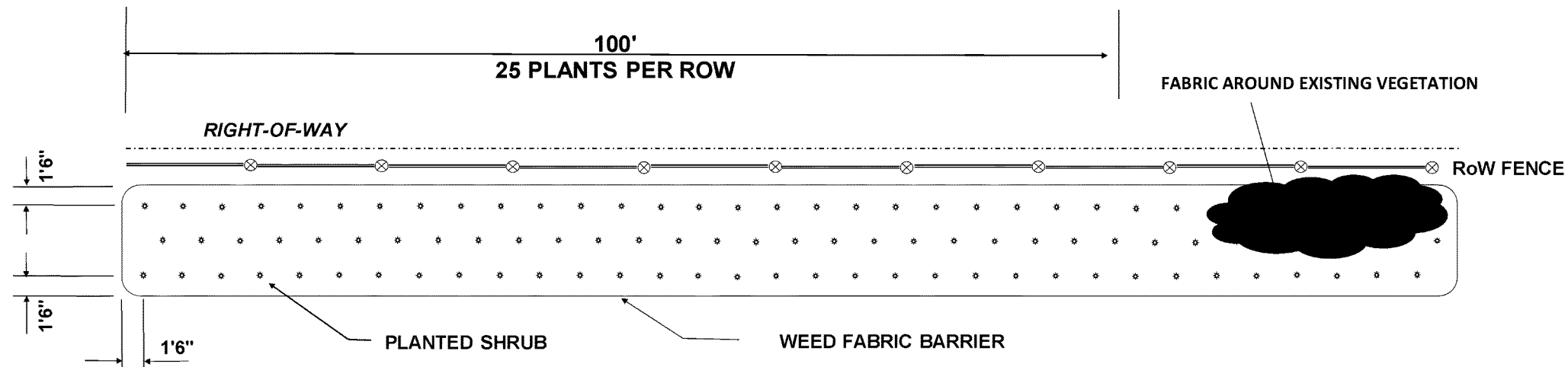
PLANT BED DETAILS



SHRUB DETAIL 1



SHRUB DETAIL 2



SHRUB DETAIL 3

GENERAL

WEED BARRIER LIMITS- WEED BARRIER IS TO EXTEND BEYOND THE OUTER PLANTS TO A MINIMUM DISTANCE OF 1.5'.

BASE LINE-IF A BASE LINE IS SHOWN, AT LEAST THE FIRST ROW OF PLANTS SHALL FOLLOW THE LINE.

PLANTING-SHRUBS ARE TO BE PLANTED IN INDIVIDUAL HOLES OR IN CONTINUOUS TRENCH AS SPECIFIED ON THE "PLANT DATA CHART." IF PLANTED IN A TRENCH, THE TRENCH SHALL BE AS DEEP AND AS WIDE AS THAT SPECIFIED FOR INDIVIDUAL HOLES ON THE "PLANT DATA CHART." EXCESS EXCAVATED MATERIAL MAY BE DISPOSED OF BETWEEN THE HOLES OR TRENCH IF IN THE JUDGEMENT OF THE ENGINEER IT DOES NOT CAUSE EROSION OR DAMAGE PROBLEMS. IF THIS IS DONE, PLANT ELEVATIONS WILL BE ADJUSTED ACCORDINGLY AND THE ENTIRE BED AREA WILL BE RAKED OR OTHERWISE FINISHED TO PRODUCE A UNIFORM SURFACE CONFORMING THE ORIGINAL SHAPE AND CONTOUR. THE ENTIRE BED AREA SHALL BE PLANTED.

PLANT DATA CHART

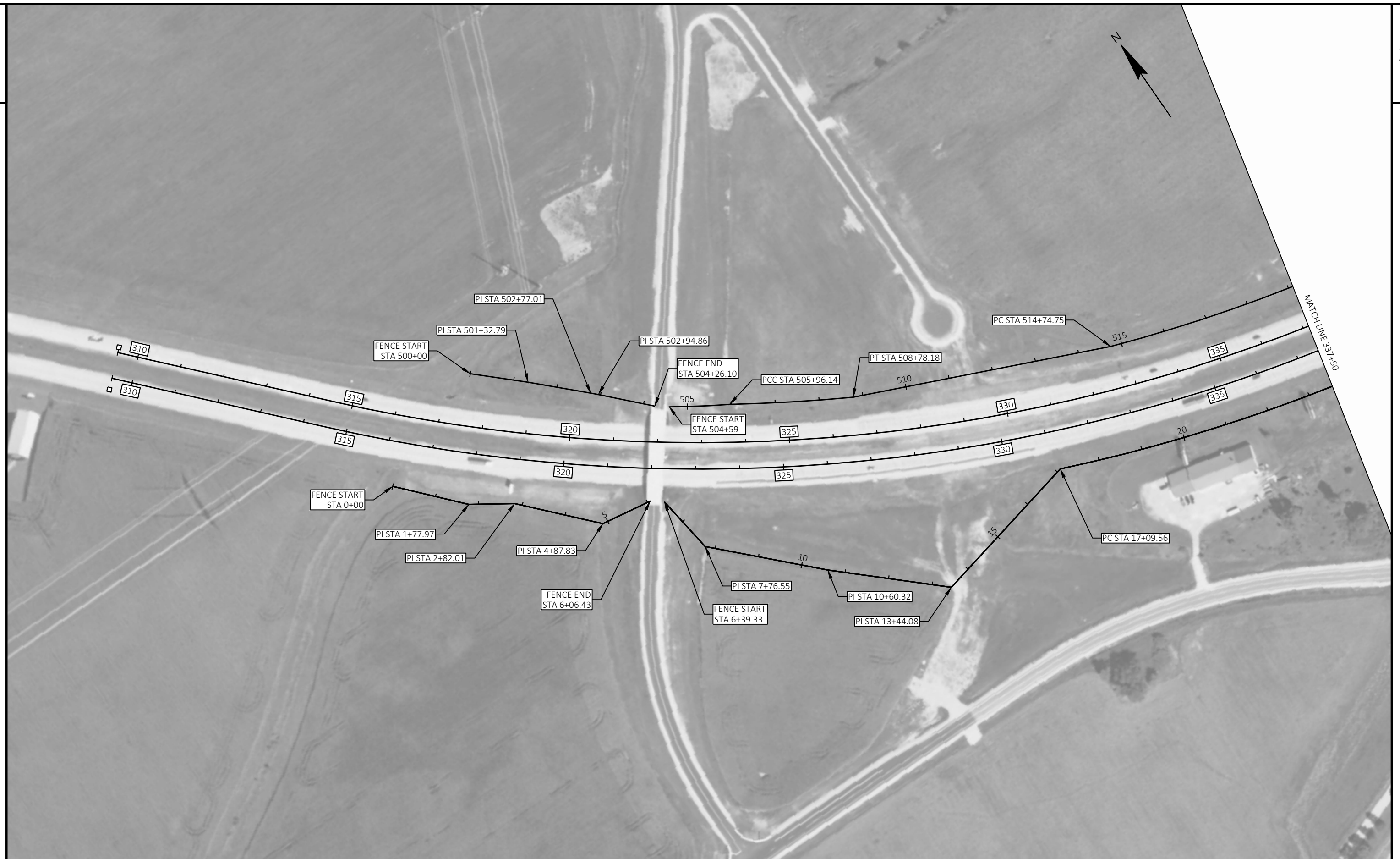
							MINIMUM SIZE									
							BALL/POT			PLANT HOLE						
SYMBOL	COMMON NAME	SCIENTIFIC NAME	TYPE	AVE MATURE HEIGHT	SIZE (CAL OR HT) WHEN PLANTED	ROOT ZONE MODE	DIAM.	DEPTH		ROOT SPREAD	DIAM.	DEPTH	BRACE OR GUY	FERT. UNITS REQ'D	RODENT PROTECTIO REQ'D	MULCH RING DIAM.
	DECIDUOUS SHRUBS															
RO	RED OSIER DOGWOOD	CORNUS SERICEA	2S	10'	12-18"	BR*	9"	6"		**	6"	NO	2	NO	NO	BED
AF	AMERICAN HAZELNUT (FILBERT)	CORYLUS AMERICANA	3S	8'	12-18"	BR*	9"	6"		**	6"	NO	2	NO	NO	BED
CN	COMMON NINEBARK	PHYSOCARPUS OPULIFOLIUS	3S	8'	12-18"	BR*	9"	6"		**	6"	NO	2	NO	NO	BED

BR: BARE ROOT
B&B: BALLED AND BURLAPPED
CG: CONTAINER GROWN

*CONTAINER GROWN (CG) MAY BE SUBSTITUTED
**WIDTH BASED ON SIZE OF EQUIPMENT: 6" POWERED AUGER, PULL BEHIND PLANter, OR SPADE



- NOTES:
- 1. ALL PLANTINGS TO BE INSTALLED PARALLEL TO RIGHT OF WAY FENCE.
 - 2. MAINTAIN CONTINUOUS LINEAR PLANTINGS WITHOUT OPENINGS OR GAPS, WHERE POSSIBLE.
 - 3. WEED FABRIC SHRUB BEDS TO LIMITS INDICATED ON DETAIL PLAN SHEETS.
 - 4. REFER TO PLANTING GUIDELINES AND DETAILS FOR PLANT SPACING AND LAYOUT OF SHRUB BEDS.



PROJECT NO: 9200-10-73

HWY: STH 29

COUNTY: BROWN

PLAN DETAILS - ALIGNMENT PLAN

SHEET

9

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FILE NAME : N:\PDS\C3D\92001001\SHEETS\PLAN\021201-PD.DWG
LAYOUT NAME - 021201-pd

PLOT DATE : 5/18/2022 11:46 AM

PLOT BY : LORENZ, KELSEY ANN

PLOT NAME :

PLOT SCALE : 1 IN:200 FT

WISDOT/CADDs SHEET 42



PROJECT NO: 9200-10-73

HWY: STH 29

COUNTY: BROWN

PLAN DETAILS - ALIGNMENT PLAN

SHEET

10

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PLOT DATE : 5/18/2022 11:46 AM

PLOT BY : LORENZ, KELSEY ANN

PLOT NAME :

PLOT SCALE : 1 IN=200 FT

WISDOT/CADDs SHEET 42



PROJECT NO: 9200-10-73

HWY: STH 29

COUNTY: BROWN

PLAN DETAILS - ALIGNMENT PLAN

SHEET

11

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PROJECT NO: 9200-10-73

HWY: STH 29

COUNTY: BROWN

PLAN DETAILS - ALIGNMENT PLAN

SHEET

12

E

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PLOT NAME :

PLOT SCALE : 1 IN=200 FT

WISDOT/CADDs SHEET 42



PROJECT NO: 9200-10-73

HWY: STH 29

COUNTY: BROWN

PLAN DETAILS - ALIGNMENT PLAN

SHEET

13

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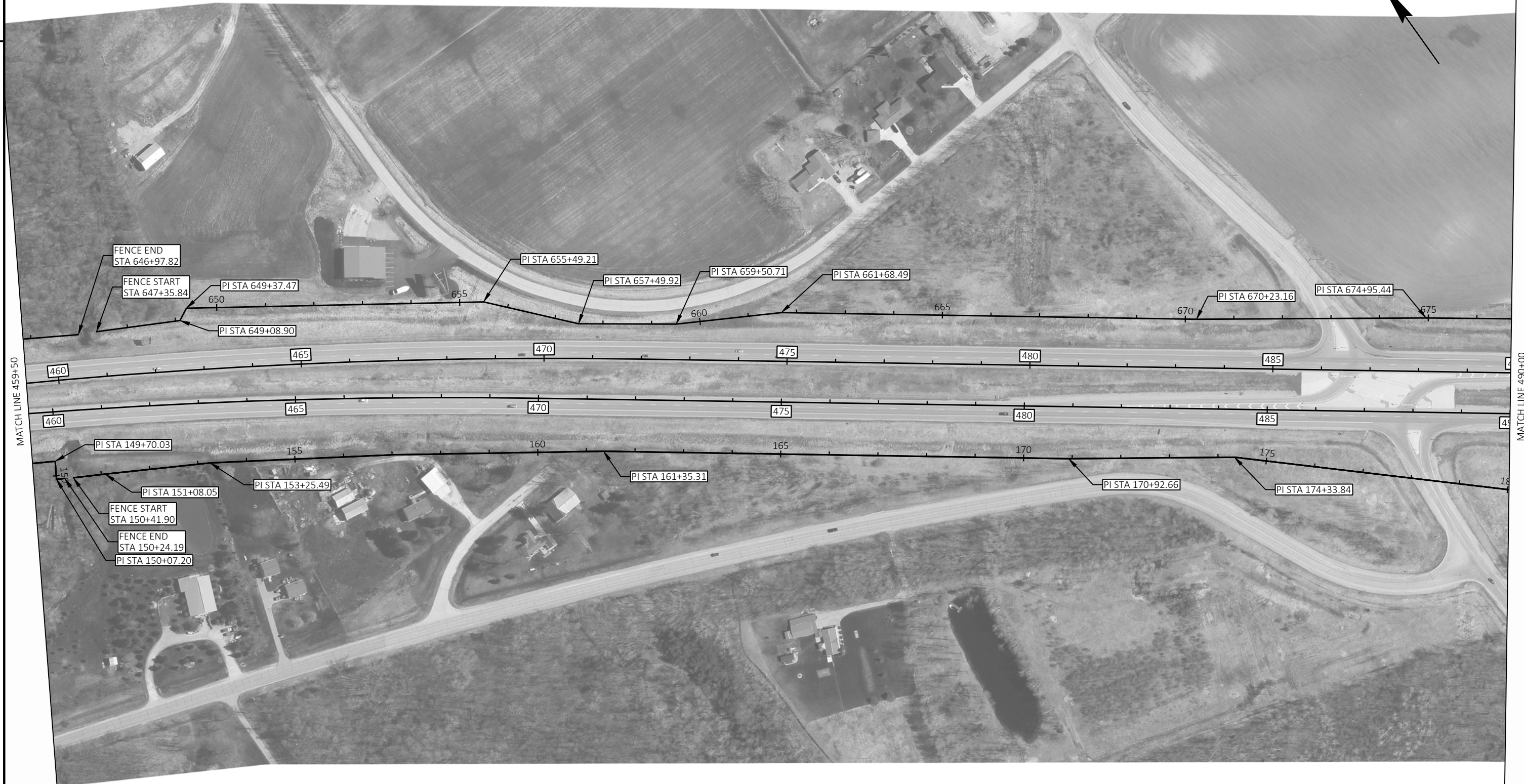
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PLOT BY : LORENZ, KELSEY ANN

PLOT NAME :

PLOT SCALE : 1 IN:200 FT

WISDOT/CADDs SHEET 42



PROJECT NO: 9200-10-73

HWY: STH 29

COUNTY: BROWN

PLAN DETAILS - ALIGNMENT PLAN

SHEET

14

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PLOT BY: LORENZ, KELSEY ANN

PLOT NAME:

PLOT SCALE: 1 IN:200 FT

WISDOT/CADDs SHEET 42



PROJECT NO: 9200-10-73

HWY: STH 29

COUNTY: BROWN

PLAN DETAILS - ALIGNMENT PLAN

SHEET

15

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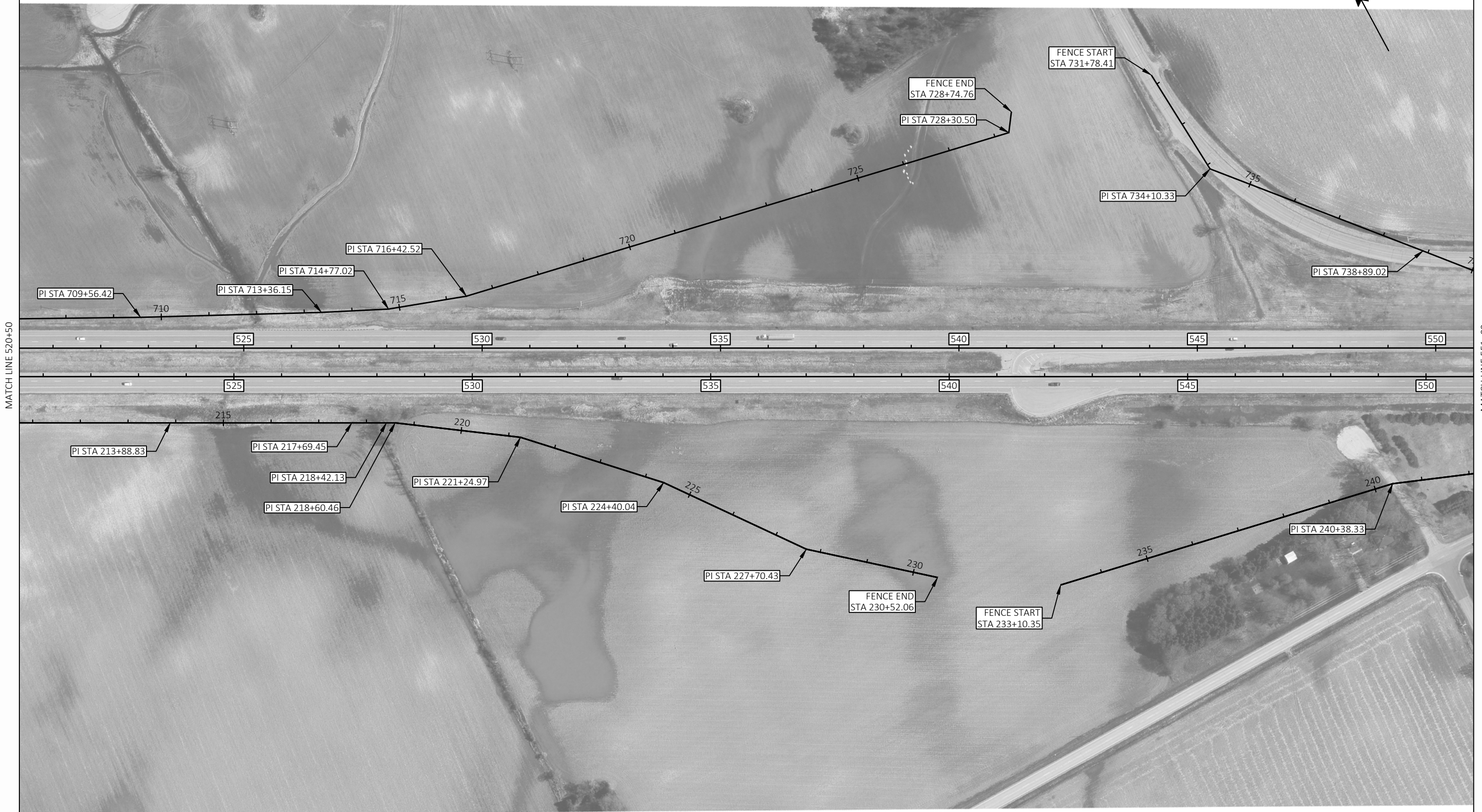
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PLOT BY : LORENZ, KELSEY ANN

PLOT NAME :

PLOT SCALE : 1 IN:200 FT

WISDOT/CADDs SHEET 42



PROJECT NO: 9200-10-73

HWY: STH 29

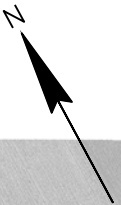
COUNTY: BROWN

PLAN DETAILS - ALIGNMENT PLAN

SHEET

16

E

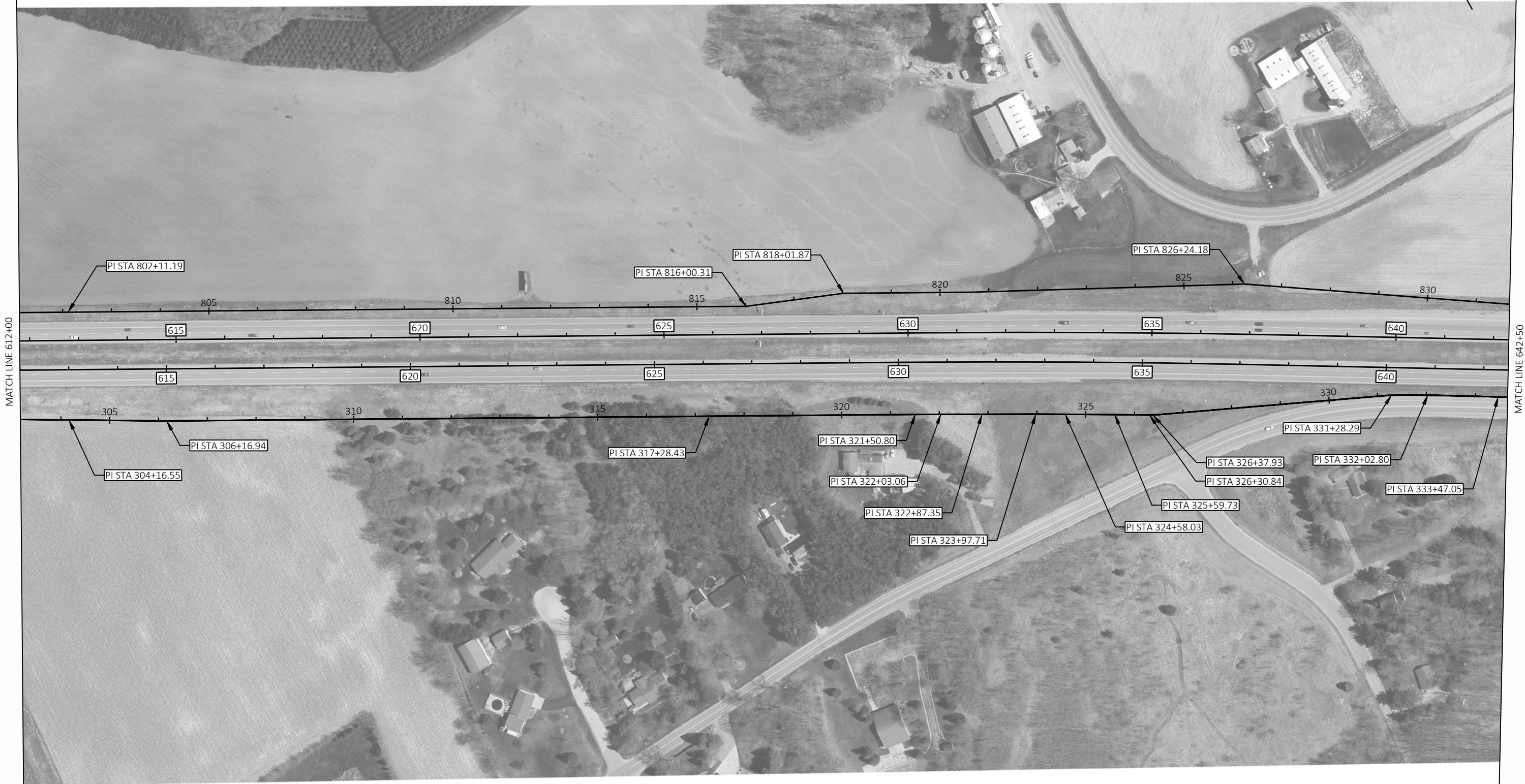


MATCH LINE 551+00

MATCH LINE 581+50







PROJECT NO: 9200-10-73

HWY: STH 29

COUNTY: BROWN

PLAN DETAILS - ALIGNMENT PLAN

SHEET

19

E

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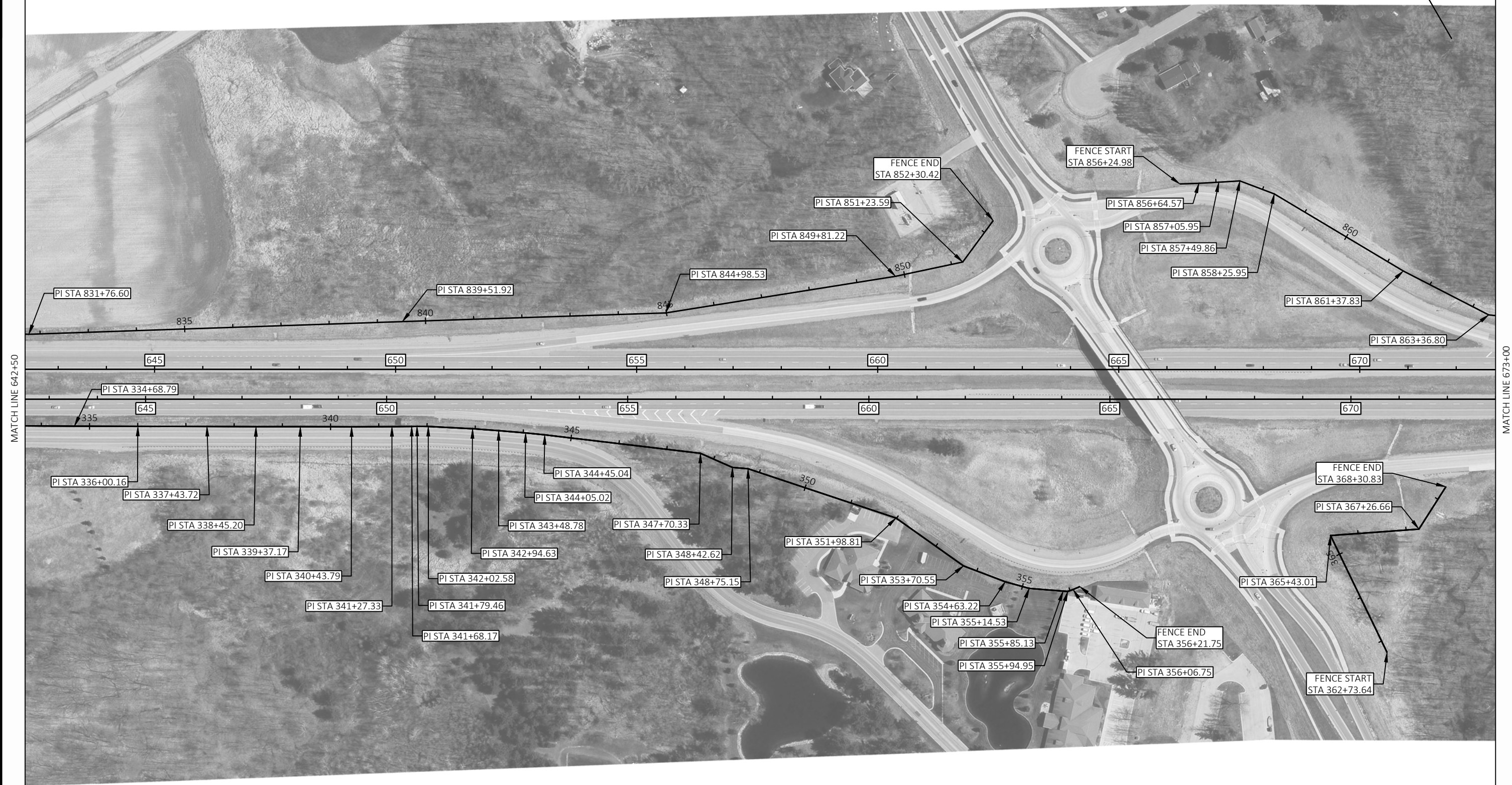
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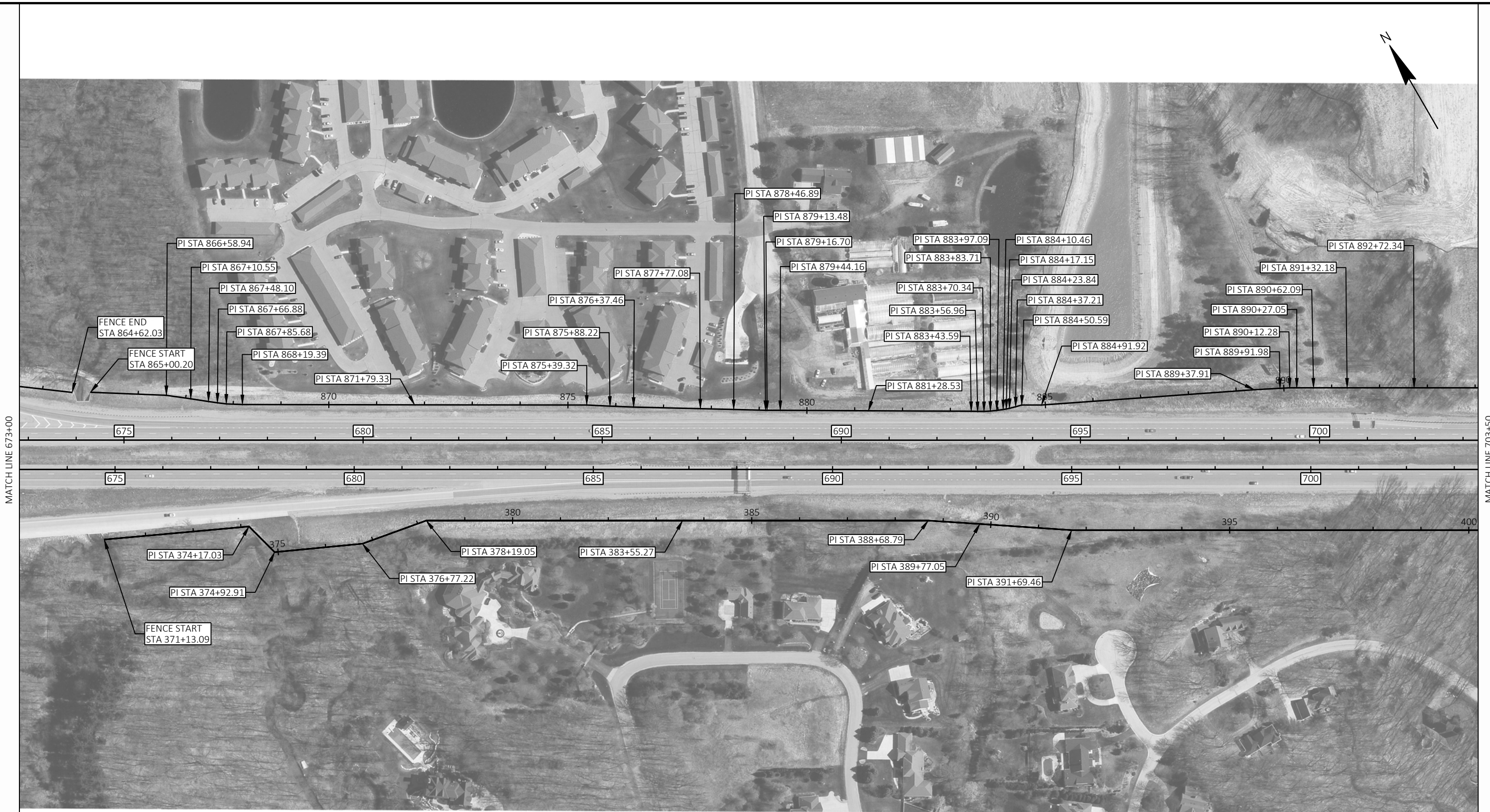
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PLOT NAME :

PLOT SCALE : 1 IN=200 FT

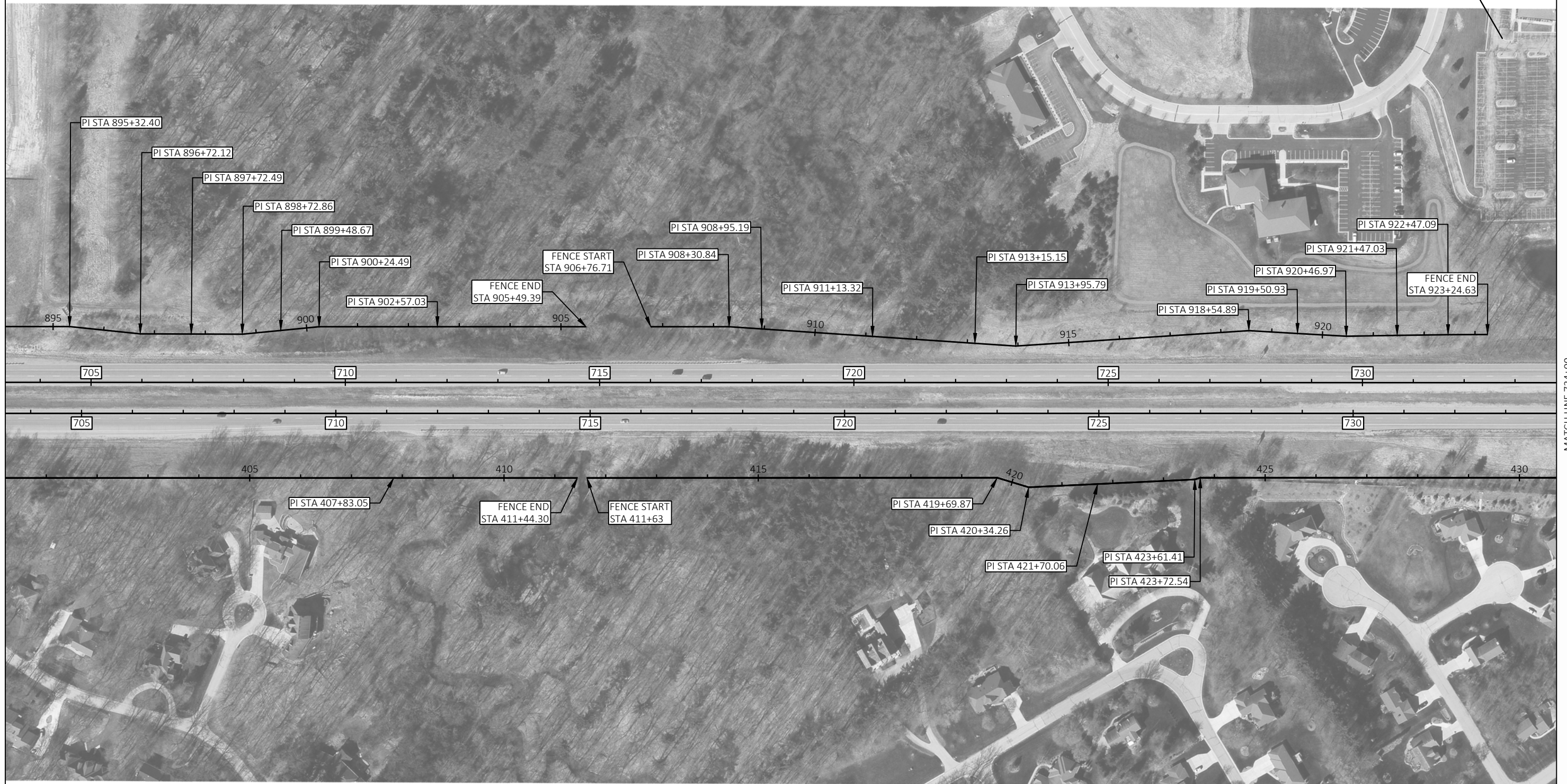
WISDOT/CADDs SHEET 42





MATCH LINE 703+50

MATCH LINE 734+00



PROJECT NO: 9200-10-73

HWY: STH 29

COUNTY: BROWN

PLAN DETAILS - ALIGNMENT PLAN

SHEET

22

E

FILE NAME : N:\PDS\C3D\92001001\SHEETS\PLAN\021201-PD.DWG
LAYOUT NAME - 021214-pd

PLOT DATE : 5/18/2022 11:47 AM

PLOT BY : LORENZ, KELSEY ANN

PLOT NAME :

PLOT SCALE : 1 IN=200 FT

WISDOT/CADDs SHEET 42

MATCH LINE 734+00



PROJECT NO: 9200-10-73

HWY: STH 29

COUNTY: BROWN

PLAN DETAILS - ALIGNMENT PLAN

SHEET

23

E

FILE NAME : N:\PDS\C3D\92001001\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021215-pd

PLOT DATE : 5/18/2022 11:47 AM

PLOT BY : LORENZ, KELSEY ANN

PLOT NAME :

PLOT SCALE : 1 IN=200 FT

WISDOT/CADDs SHEET 42

Estimate Of Quantities

9200-10-73					
Line	Item	Item Description	Unit	Total	Qty
0002	213.0100	Finishing Roadway (project) 01. 9200-10-73	EACH	1.000	1.000
0004	616.0100	Fence Woven Wire (height) 01. 4-FT	LF	46,814.000	46,814.000
0006	616.0206	Fence Chain Link 6-FT	LF	37,353.000	37,353.000
0008	618.0100	Maintenance And Repair of Haul Roads (project) 01. 9200-10-73	EACH	1.000	1.000
0010	619.1000	Mobilization	EACH	1.000	1.000
0012	627.0200	Mulching	SY	20,727.000	20,727.000
0014	628.1504	Silt Fence	LF	750.000	750.000
0016	628.1520	Silt Fence Maintenance	LF	750.000	750.000
0018	628.1905	Mobilizations Erosion Control	EACH	12.000	12.000
0020	628.1910	Mobilizations Emergency Erosion Control	EACH	6.000	6.000
0022	628.2004	Erosion Mat Class I Type B	SY	1,502.000	1,502.000
0024	628.6510	Soil Stabilizer Type B	ACRE	4.000	4.000
0026	629.0210	Fertilizer Type B	CWT	14.000	14.000
0028	630.0120	Seeding Mixture No. 20	LB	438.600	438.600
0030	630.0170	Seeding Mixture No. 70	LB	22.000	22.000
0032	630.0200	Seeding Temporary	LB	161.500	161.500
0034	630.0500	Seed Water	MGAL	499.200	499.200
0036	632.0201	Shrubs (species) (size) (root) 01. American Hazelnut, 12"-18", BR	EACH	725.000	725.000
0038	632.0201	Shrubs (species) (size) (root) 02. Common Ninebark, 12"-18", BR	EACH	725.000	725.000
0040	632.0201	Shrubs (species) (size) (root) 03. Red Osier Dogwood, 12"-18", BR	EACH	725.000	725.000
0042	632.9101	Landscape Planting Surveillance and Care Cycles	EACH	26.000	26.000
0044	642.5001	Field Office Type B	EACH	1.000	1.000
0046	643.0300	Traffic Control Drums	DAY	7,250.000	7,250.000
0048	643.0800	Traffic Control Arrow Boards	DAY	290.000	290.000
0050	643.0900	Traffic Control Signs	DAY	1,160.000	1,160.000
0052	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0054	643.5000	Traffic Control	EACH	1.000	1.000
0056	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0058	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000
0060	SPV.0090	Special 01. Slatted Fence, Chain Link 6-FT	LF	125.000	125.000

WOVEN WIRE FENCE

616.0100.01 FENCE WOVEN WIRE (HEIGHT) (01. 4-FT)						
CATEGORY	STATION	TO	STATION	LOCATION	LF	REMARKS
0010	317'WB'+55	-	321'WB'+92	STH 29	426	LT
0010	322'WB'+25	-	352'WB'+57	STH 29	2,991	LT
0010	352'WB'+80	-	384'WB'+37	STH 29	3,162	LT
0010	384'WB'+55	-	392'WB'+34	STH 29	937	LT
0010	393'WB'+76	-	460'WB'+48	STH 29	6,930	LT
0010	460'WB'+85	-	541'WB'+10	STH 29	8,139	LT
0010	707'WB'+97	-	714'WB'+73	STH 29	677	LT
0010	716'WB'+01	-	720'WB'+37	STH 29	437	LT
0010	316'EB'+26	-	321'EB'+98	STH 29	607	RT
0010	322'EB'+31	-	351'EB'+55	STH 29	3,129	RT
0010	351'EB'+80	-	383'EB'+56	STH 29	3,192	RT
0010	383'EB'+76	-	396'EB'+58	STH 29	1,276	RT
0010	397'EB'+82	-	460'EB'+15	STH 29	6,540	RT
0010	460'EB'+33	-	539'EB'+76	STH 29	8,010	RT
0010	711'EB'+14	-	714'EB'+75	STH 29	361	RT
TOTAL 0010					46,814	

CHAIN LINK FENCE

616.0206 FENCE CHAIN LINK 6-FT						
CATEGORY	STATION	TO	STATION	LOCATION	LF	REMARKS
0010	544'WB'+04	-	662'WB'+39	STH 29	12,055	LT
0010	667'WB'+51	-	673'WB'+92	STH 29	712	LT
0010	674'WB'+30	-	707'WB'+97	STH 29	3,373	LT
0010	720'WB'+37	-	732'WB'+46	STH 29	1,211	LT
0010	736'WB'+82	-	742'WB'+34	STH 29	553	LT
0010	542'EB'+34	-	664'EB'+38	STH 29	12,312	RT
0010	670'EB'+75	-	671'EB'+97	STH 29	557	RT
0010	674'EB'+77	-	711'EB'+14	STH 29	3,670	RT
0010	714'EB'+94	-	744'EB'+00	STH 29	2,910	RT
TOTAL 0010					37,353	

SLATTED FENCE

SPV.0090.01 SPECIAL (01. SLATTED FENCE, CHAIN LINK 6-FT)						
CATEGORY	STATION	TO	STATION	LOCATION	LF	REMARKS
0010	666'WB'+27	-	667'WB'+51	STH 29	125	LT
TOTAL 0010					125	

LANDSCAPING SUMMARY

					627.0200	628.2004	629.0210							627.0200	628.2004	629.0210	
					MULCHING	EROSION MAT	FERTILIZER							MULCHING	EROSION MAT	FERTILIZER	
CATEGORY	STATION	TO	STATION	LOCATION	SY	CLASS I	TYPE B	REMARKS	CATEGORY	STATION	TO	STATION	LOCATION	SY	CLASS I	TYPE B	REMARKS
							TYPE B									CWT	
0010	328'WB'+34	-	328'WB'+64	STH 29	16	-	0.01	LT	0010	328'EB'+26	-	339'EB'+47	STH 29	684	-	0.43	RT
0010	329'WB'+29	-	329'WB'+51	STH 29	12	-	0.01	LT	0010	349'EB'+71	-	352'EB'+47	STH 29	404	-	0.25	RT
0010	335'WB'+55	-	340'WB'+35	STH 29	261	-	0.16	LT	0010	383'EB'+31	-	383'EB'+83	STH 29	30	-	0.02	RT
0010	352'WB'+29	-	352'WB'+98	STH 29	154	-	0.10	LT	0010	397'EB'+82	-	398'EB'+02	STH 29	13	-	0.01	RT
0010	384'WB'+16	-	384'WB'+80	STH 29	36	-	0.02	LT	0010	410'EB'+83	-	411'EB'+07	STH 29	13	-	0.01	RT
0010	401'WB'+78	-	405'WB'+74	STH 29	235	-	0.15	LT	0010	448'EB'+22	-	448'EB'+39	STH 29	33	-	0.02	RT
0010	417'WB'+03	-	418'WB'+91	STH 29	85	-	0.05	LT	0010	452'EB'+67	-	452'EB'+90	STH 29	20	-	0.01	RT
0010	426'WB'+63	-	673'WB'+92	STH 29	58	-	0.04	LT	0010	459'EB'+92	-	461'EB'+04	STH 29	273	-	0.17	RT
0010	440'WB'+75	-	444'WB'+38	STH 29	201	-	0.13	LT	0010	473'EB'+32	-	481'EB'+51	STH 29	439	-	0.28	RT
0010	458'WB'+79	-	462'WB'+76	STH 29	369	-	0.23	LT	0010	487'EB'+28	-	487'EB'+78	STH 29	28	-	0.02	RT
0010	468'WB'+34	-	481'WB'+79	STH 29	1,147	-	0.72	LT	0010	488'EB'+81	-	488'EB'+97	STH 29	9	-	0.01	RT
0010	485'WB'+14	-	485'WB'+59	STH 29	25	-	0.02	LT	0010	494'EB'+93	-	501'EB'+28	STH 29	486	-	0.31	RT
0010	486'WB'+93	-	487'WB'+48	STH 29	27	-	0.02	LT	0010	505'EB'+59	-	512'EB'+31	STH 29	1,593	-	1.00	RT
0010	495'WB'+30	-	487'WB'+49	STH 29	192	-	0.12	LT	0010	516'EB'+82	-	517'EB'+43	STH 29	33	-	0.02	RT
0010	510'WB'+07	-	512'WB'+86	STH 29	141	-	0.09	LT	0010	523'EB'+72	-	525'EB'+95	STH 29	108	-	0.07	RT
0010	516'WB'+60	-	517'WB'+45	STH 29	48	-	0.03	LT	0010	532'EB'+76	-	533'EB'+33	STH 29	31	-	0.02	RT
0010	524'WB'+53	-	525'WB'+75	STH 29	68	-	0.04	LT	0010	538'EB'+98	-	539'EB'+79	STH 29	42	-	0.03	RT
0010	534'WB'+56	-	539'WB'+99	STH 29	313	-	0.20	LT	0010	543'EB'+78	-	545'EB'+53	STH 29	99	-	0.06	RT
0010	645'WB'+20	-	655'WB'+39	STH 29	566	-	0.36	LT	0010	555'EB'+33	-	558'EB'+68	STH 29	184	-	0.12	RT
0010	655'WB'+39	-	660'WB'+11	STH 29	264	-	0.17	LT	0010	574'EB'+54	-	579'EB'+93	STH 29	1,167	-	0.74	RT
0010	662'WB'+01	-	662'WB'+43	STH 29	33	-	0.02	LT	0010	637'EB'+30	-	654'EB'+90	STH 29	-	1202	0.76	RT
0010	672'WB'+40	-	680'WB'+50	STH 29	417	-	0.26	LT	0010	655'EB'+43	-	658'EB'+99	STH 29	869	-	0.55	RT
0010	680'WB'+50	-	712'WB'+01	STH 29	736	-	0.46	LT	0010	670'EB'+88	-	671'EB'+27	STH 29	22	-	0.01	RT
0010	715'WB'+09	-	732'WB'+46	STH 29	677	-	0.43	LT	0010	677'EB'+80	-	680'EB'+29	STH 29	549	-	0.35	RT
0010	736'WB'+82		742'WB'+34	STH 29	154	-	0.10	LT	0010	680'EB'+29	-	744'EB'+00	STH 29	3,220	-	2.03	RT
SUBTOTAL 0010					6,232	0	3.93		0010	UNDISTRIBUTED			STH 29	4,145	301	2.80	
												TOTAL 0010				14.00	

SILT FENCE

					628.1504	628.1520		
					SILT FENCE	SILT FENCE		
CATEGORY	STATION	TO	STATION	LOCATION	LF	MAINTENANCE	LF	REMARKS
0010	673'EB'+08	-	675'EB'+98	STH 29	300	300		RT
0010	671'WB'+13	-	677'WB'+15	STH 29	300	300		LT
0010	UNDISTRIBUTED			STH 29	150	150		
SUBTOTAL 0010					750	750		

SEEDING SUMMARY

					630.0120	630.0170	630.0200	630.0500	REMARKS						630.0120	630.0170	630.0200	630.0500	REMARKS				
					SEEDING MIXTURE	SEEDING MIXTURE	SEEDING	SEED WATER							SEEDING MIXTURE	SEEDING MIXTURE	SEEDING	SEED					
CATEGORY	STATION	TO	STATION	LOCATION	NO. 20 LB	NO. 70 LB	TEMPORARY LB	MGAL		CATEGORY	STATION	TO	STATION	LOCATION	NO. 20 LB	NO. 70 LB	TEMPORARY LB	WATER MGAL					
0010	328'WB'+34	-	328'WB'+64	STH 29	0.43	-	-	0.4	LT	0010	328'EB'+26	-	339'EB'+47	STH 29	18.46	-	-	15.4	RT				
0010	329'WB'+29	-	329'WB'+51	STH 29	0.32	-	-	0.3	LT	0010	349'EB'+71	-	352'EB'+47	STH 29	10.92	-	-	9.1	RT				
0010	335'WB'+55	-	340'WB'+35	STH 29	7.04	-	-	5.9	LT	0010	383'EB'+31	-	383'EB'+83	STH 29	0.81	-	-	0.7	RT				
0010	352'WB'+29	-	352'WB'+98	STH 29	4.16	-	-	3.5	LT	0010	397'EB'+82	-	398'EB'+02	STH 29	0.35	-	-	0.3	RT				
0010	384'WB'+16	-	384'WB'+80	STH 29	0.98	-	-	0.8	LT	0010	410'EB'+83	-	411'EB'+07	STH 29	0.34	-	-	0.3	RT				
0010	401'WB'+78	-	405'WB'+74	STH 29	6.35	-	-	5.3	LT	0010	448'EB'+22	-	448'EB'+39	STH 29	0.89	-	-	0.7	RT				
0010	417'WB'+03	-	418'WB'+91	STH 29	2.29	-	-	1.9	LT	0010	452'EB'+67	-	452'EB'+90	STH 29	0.53	-	-	0.4	RT				
0010	426'WB'+63	-	673'WB'+92	STH 29	1.58	-	-	1.3	LT	0010	459'EB'+92	-	461'EB'+04	STH 29	7.37	-	-	6.1	RT				
0010	440'WB'+75	-	444'WB'+38	STH 29	5.43	-	-	4.5	LT	0010	473'EB'+32	-	481'EB'+51	STH 29	11.86	-	-	9.9	RT				
0010	458'WB'+79	-	462'WB'+76	STH 29	9.96	-	-	8.3	LT	0010	487'EB'+28	-	487'EB'+78	STH 29	0.75	-	-	0.6	RT				
0010	468'WB'+34	-	481'WB'+79	STH 29	30.98	-	-	25.8	LT	0010	488'EB'+81	-	488'EB'+97	STH 29	0.24	-	-	0.2	RT				
0010	485'WB'+14	-	485'WB'+59	STH 29	0.66	-	-	0.6	LT	0010	494'EB'+93	-	501'EB'+28	STH 29	13.11	-	-	10.9	RT				
0010	486'WB'+93	-	487'WB'+48	STH 29	0.73	-	-	0.6	LT	0010	505'EB'+59	-	512'EB'+31	STH 29	43.02	-	-	35.8	RT				
0010	495'WB'+30	-	487'WB'+49	STH 29	5.17	-	-	4.3	LT	0010	516'EB'+82	-	517'EB'+43	STH 29	0.89	-	-	0.7	RT				
0010	510'WB'+07	-	512'WB'+86	STH 29	3.80	-	-	3.2	LT	0010	523'EB'+72	-	525'EB'+95	STH 29	2.91	-	-	2.4	RT				
0010	516'WB'+60	-	517'WB'+45	STH 29	1.28	-	-	1.1	LT	0010	532'EB'+76	-	533'EB'+33	STH 29	0.85	-	-	0.7	RT				
0010	524'WB'+53	-	525'WB'+75	STH 29	1.82	-	-	1.5	LT	0010	538'EB'+98	-	539'EB'+79	STH 29	1.15	-	-	1.0	RT				
0010	534'WB'+56	-	539'WB'+99	STH 29	8.45	-	-	7.0	LT	0010	543'EB'+78	-	545'EB'+53	STH 29	2.69	-	-	2.2	RT				
0010	645'WB'+20	-	655'WB'+39	STH 29	15.29	-	-	12.7	LT	0010	555'EB'+33	-	558'EB'+68	STH 29	4.97	-	-	4.1	RT				
0010	655'WB'+39	-	660'WB'+11	STH 29	7.13	-	-	5.9	LT	0010	574'EB'+54	-	579'EB'+93	STH 29	31.52	-	-	26.2	RT				
0010	662'WB'+01	-	662'WB'+43	STH 29	0.88	-	-	0.7	LT	0010	637'EB'+30	-	654'EB'+90	STH 29	32.45	-	-	27.0	RT				
0010	672'WB'+40	-	680'WB'+50	STH 29	11.26	-	-	9.4	LT	0010	655'EB'+43	-	658'EB'+99	STH 29	23.47	-	-	19.5	RT				
0010	680'WB'+50	-	712'WB'+01	STH 29	-	2.65	19.87	16.5	LT	0010	670'EB'+88	-	671'EB'+27	STH 29	0.59	-	-	0.5	RT				
0010	715'WB'+09	-	732'WB'+46	STH 29	-	2.44	18.28	15.2	LT	0010	677'EB'+80	-	680'EB'+29	STH 29	14.81	-	-	12.3	RT				
0010	736'WB'+82	-	742'WB'+34	STH 29	-	0.55	4.15	3.4	LT	0010	680'EB'+29	-	744'EB'+00	STH 29	-	11.59	86.94	72.3	RT				
SUBTOTAL 0010					126.0	5.6	42.3	140.0		0010	UNDISTRIBUTED				STH 29	87.73	4.73	32.30	99.9				
															TOTAL 0010	438.6	22.0	161.5	499.2				

EROSION CONTROL MOBILIZATION

SOIL STABILIZER

		628.1905		628.1910			
		MOBILIZATIONS		MOBILIZATIONS EMERGENCY			
		EROSION CONTROL		EROSION CONTROL			
		EACH		EACH			
CATEGORY	STATION	TO	STATION	LOCATION			REMARKS
0010	309'EB'+53	-	744'EB'+92	STH 29	12	6	
TOTAL 0010					12	6	

		628.6510			
		SOIL STABILIZER			
		TYPE B			
		ACRE			
CATEGORY	STATION	TO	STATION	LOCATION	REMARKS
0010	UNDISTRIBUTED			STH 29	4.0
TOTAL 0010					4.0

LIVING SNOW FENCE

		632.0201.01		632.0201.02		632.0201.03		632.9101	
		SHRUBS		SHRUBS		SHRUBS		LANDSCAPE	
		AMERICAN		COMMON		RED OSIER		PLANTING	
		HAZELNUT		NINEBARK		DOGWOOD		SURVEILLANCE AND	
		12-18"		12-18"		12-18"		CARE CYCLES	
CATEGORY	STATION	TO	STATION	LOCATION	EACH	EACH	EACH	EACH	REMARKS
0010	512'EB'+23	-	539'EB'+94	STH 29	725	725	725	26	RT
TOTAL 0010					725	725	725	26	

TRAFFIC CONTROL SUMMARY

					APPROX.	643.0300		643.0800		643.0900		643.1050		
					PERIOD	DRUMS		ARROW BOARDS		SIGNS		PCMS		
CATEGORY	STATION	TO	STATION	LOCATION	DAYS	NO. IN	DAY	NO. IN	DAY	NO. IN	DAY	NO. IN	DAY	REMARKS
0010	309'WB'+53	-	744'WB'+71	STH 29	145	20	2900	1	145	4	580	1	7	
0010	309'EB'+53	-	744'EB'+92	STH 29	145	20	2900	1	145	4	580	1	7	
0010	UNDISTRIBUTED			STH 29	145	10	1450	-	-	-	-	-	-	
TOTAL 0010							7,250		290		1,160		14	

CURVE 1 'WB'
PI STA = 327+39.56'WB'
Y = 598620.783
X = 39519.978
DELTA = 37°46'31"
D = 1°31'26"
T = 1286.33'
L = 2478.79'
R = 3759.72'
PC STA = 314+53.23'WB'
Y = 599569.481
X = 38651.287
PT STA = 339+32.02'WB'
Y = 598403.044
X = 40787.748
BK = S42°28'45.4"E
AH = S80°15'16.3"E

CURVE 1 'EB'
PI STA = 327+60.09'EB'
Y = 598565.124
X = 39489.590
DELTA = 37°46'31"
D = 1°30'00"
T = 1306.86'
L = 2518.35'
R = 3819.72'
PC STA = 314+53.23'EB'
Y = 599528.962
X = 38607.036
PT STA = 339+71.58'EB'
Y = 598343.910
X = 40777.592
BK = S42°28'45.4"E
AH = S80°15'16.3"E

MULCH TO BE USED ALONG FENCE
UNLESS OTHERWISE NOTED

LEGEND

-  SILT FENCE
-  LIVING SNOW FENCE
-  EMAT CLASS I, TYPE B

BEGIN PROJECT
STA 309+53.23'EB'
Y=599,897.723
X=38,269.374

PROJECT NO: 9200-10-73

HWY: STH 29

COUNTY: BROWN

PLAN SHEET

SHEET

29

E

FILE NAME : N:\PDS\C3D\92001001\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050201-pn

PLOT DATE : 10/3/2022 10:39 AM

PLOT BY : LORENZ, KELSEY ANN

PLOT NAME :

PLOT SCALE : 1 IN:200 FT

WISDOT/CADDs SHEET 44



CURVE 1 'WB'
PI STA = 327+39.56'WB'
Y = 598620.783
X = 39519.978
DELTA = 37°46'31"
D = 1°31'26"
T = 1286.33'
L = 2478.79'
R = 3759.72'
PC STA = 314+53.23'WB'
Y = 599569.481
X = 38651.287
PT STA = 339+32.02'WB'
Y = 598403.044
X = 40787.748
BK = S42°28'45.4"E
AH = S80°15'16.3"E

CURVE 1 'EB'
PI STA = 327+60.09'EB'
Y = 598565.124
X = 39489.590
DELTA = 37°46'31"
D = 1°30'00"
T = 1306.86'
L = 2518.35'
R = 3819.72'
PC STA = 314+53.23'EB'
Y = 599528.962
X = 38607.036
PT STA = 339+71.58'EB'
Y = 598343.910
X = 40777.592
BK = S42°28'45.4"E
AH = S80°15'16.3"E

LEGEND

SILT FENCE

LIVING SNOW FENCE

EMAT CLASS I, TYPE B

5

5



CURVE 2 'WB'
PI STA = 395+71.94'WB'
Y = 597448.368
X = 46346.274
DELTA = 20°09'47"
D = 0°59'23"
T = 1029.36'
L = 2037.43'
R = 5789.58'
PC STA = 385+42.57'WB'
Y = 597622.609
X = 45331.768
PT STA = 405+80.01'WB'
Y = 596935.110
X = 47238.546
BK = S80°15'16.3"E
AH = S60°05'29.0"E

CURVE 2 'EB'
PI STA = 396+00.83'EB'
Y = 597391.040
X = 46325.604
DELTA = 20°09'47"
D = 1°00'00"
T = 1018.69'
L = 2016.32'
R = 5729.58'
PC STA = 385+82.13'EB'
Y = 597563.475
X = 45321.611
PT STA = 405+98.45'EB'
Y = 596883.101
X = 47208.629
BK = S80°15'16.3"E
AH = S60°05'29.0"E

LEGEND

SILT FENCE

LIVING SNOW FENCE

EMAT CLASS I, TYPE B

5

5

PROJECT NO: 9200-10-73

HWY: STH 29

COUNTY: BROWN

PLAN SHEET

SHEET

32

E

FILE NAME : N:\PDS\C3D\92001001\SHEETPLAN\050201-PN.DWG
LAYOUT NAME - 050204-pn

PLOT DATE : 10/3/2022 10:40 AM

PLOT BY : LORENZ, KELSEY ANN

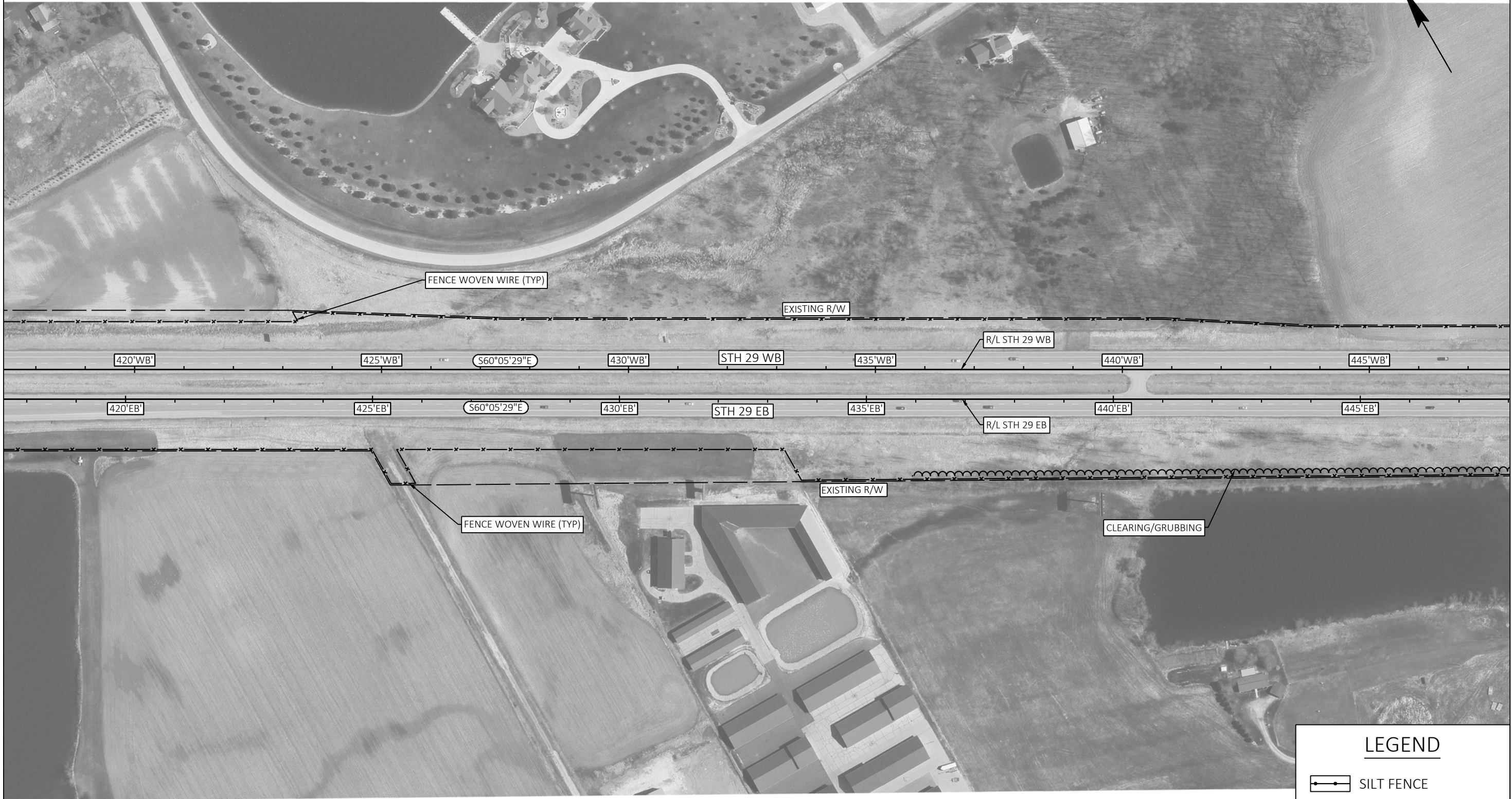
PLOT NAME :

PLOT SCALE : 1 IN:200 FT

WISDOT/CADDs SHEET 44

5

MATCH LINE 417+53



5

MATCH LINE 448+03

LEGEND

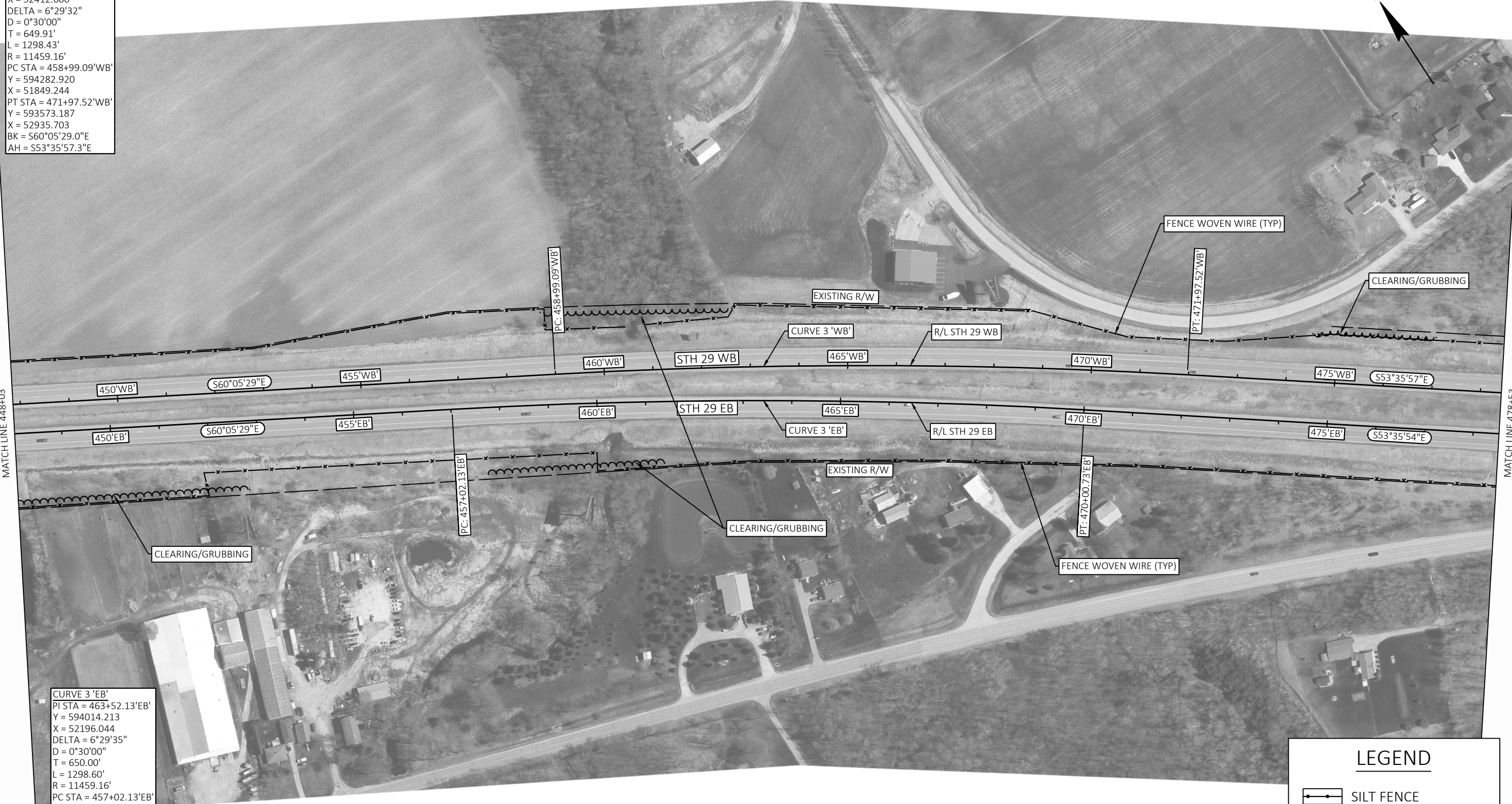
SILT FENCE

LIVING SNOW FENCE

EMAT CLASS I, TYPE B

CURVE 3 'WB'
PI STA = 465+49.00'WB'
Y = 593958.863
X = 52412.600
DELTA = 6°29'32"
D = 0°30'00"
T = 649.91'
L = 1298.43'
R = 11459.16'
PC STA = 458+99.09'WB'
Y = 594282.920
X = 51849.244
PT STA = 471+97.52'WB'
Y = 593573.187
X = 52935.703
BK = S60°05'29.0"E
AH = S53°35'57.3"E

CURVE 3 'EB'
PI STA = 463+52.13'EB'
Y = 594014.213
X = 52196.044
DELTA = 6°29'35"
D = 0°30'00"
T = 650.00'
L = 1298.60'
R = 11459.16'
PC STA = 457+02.13'EB'
Y = 594338.313
X = 51632.612
PT STA = 470+00.73'EB'
Y = 593628.478
X = 52719.211
BK = S60°05'29.0"E
AH = S53°35'54.2"E

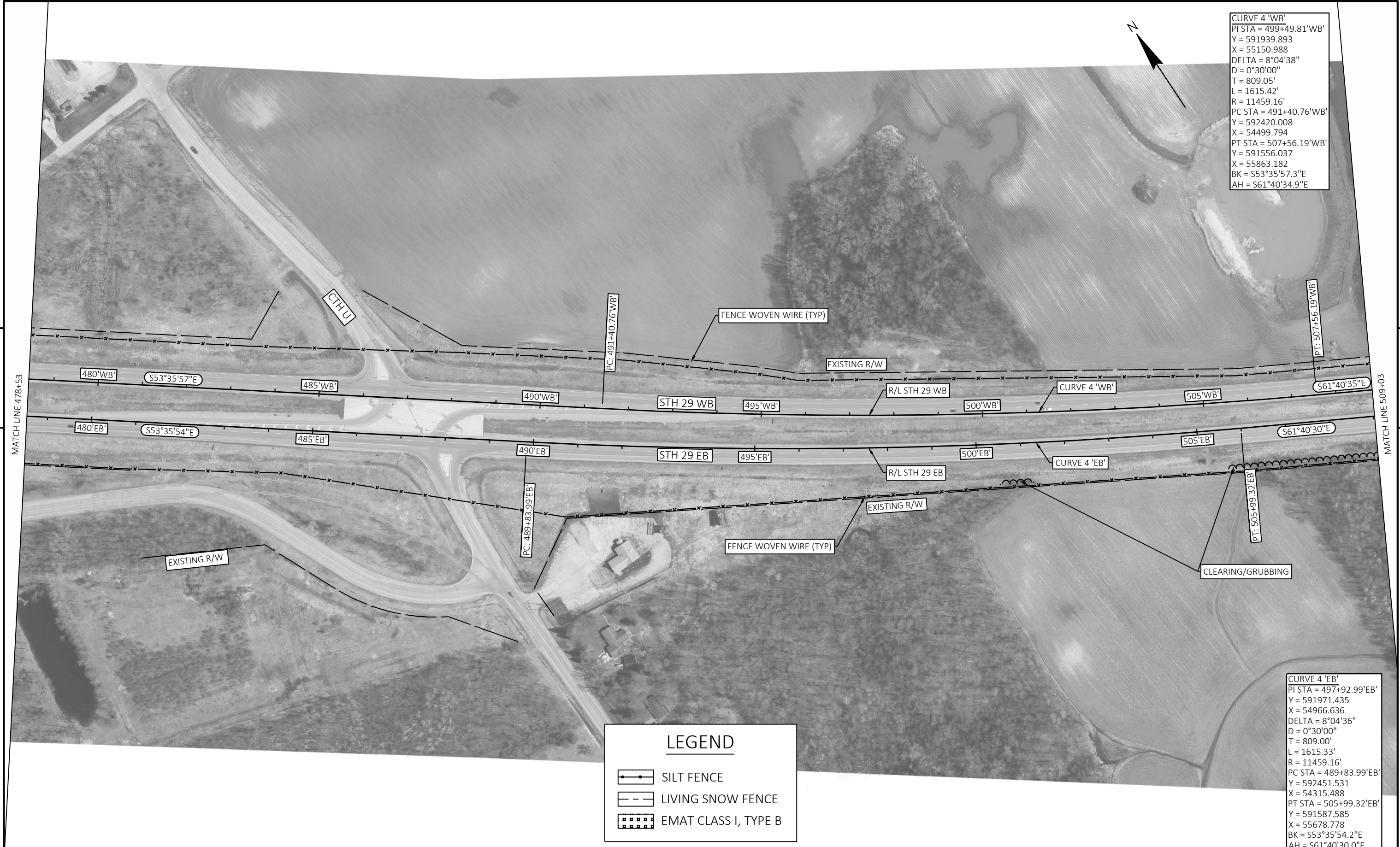


LEGEND

SILT FENCE

LIVING SNOW FENCE

EMAT CLASS I, TYPE B



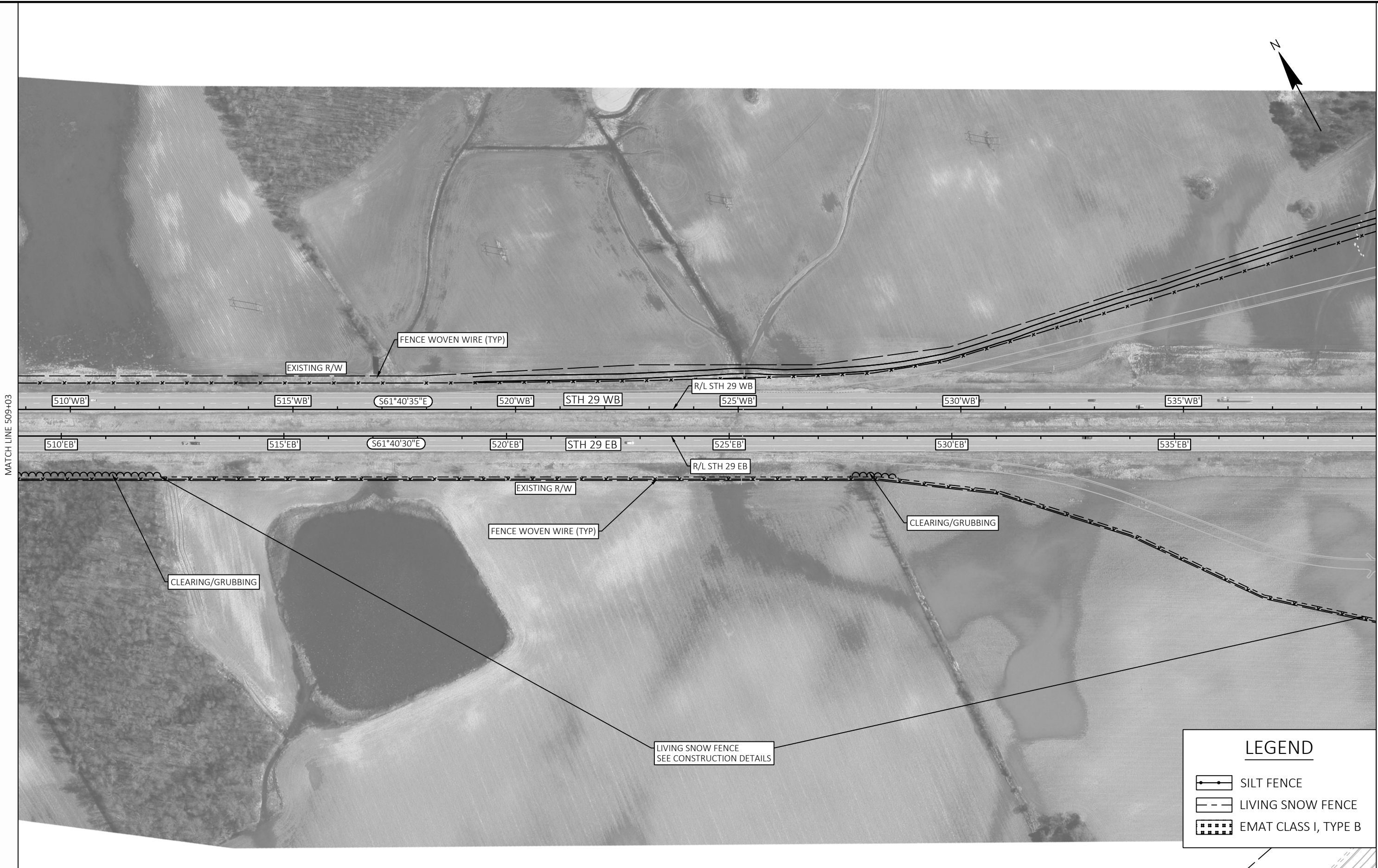
CURVE 4 'WB'
PI STA = 499+49.81'WB'
Y = 591939.893
X = 55150.988
DELTA = 8°04'38"
D = 0°30'00"
T = 809.05'
L = 1615.42'
R = 11459.16'
PC STA = 491+40.76'WB'
Y = 592420.008
X = 54499.794
PT STA = 507+56.19'WB'
Y = 591556.037
X = 55863.182
BK = S53°35'57.3"E
AH = S61°40'34.9"E

CURVE 4 'EB'
PI STA = 497+92.99'EB'
Y = 591971.435
X = 54966.636
DELTA = 8°04'36"
D = 0°30'00"
T = 809.00'
L = 1615.33'
R = 11459.16'
PC STA = 489+83.99'EB'
Y = 592451.531
X = 54315.488
PT STA = 505+99.32'EB'
Y = 591587.585
X = 55678.778
BK = S53°35'54.2"E
AH = S61°40'30.0"E

LEGEND

- SILT FENCE
- LIVING SNOW FENCE
- EMAT CLASS I, TYPE B

5



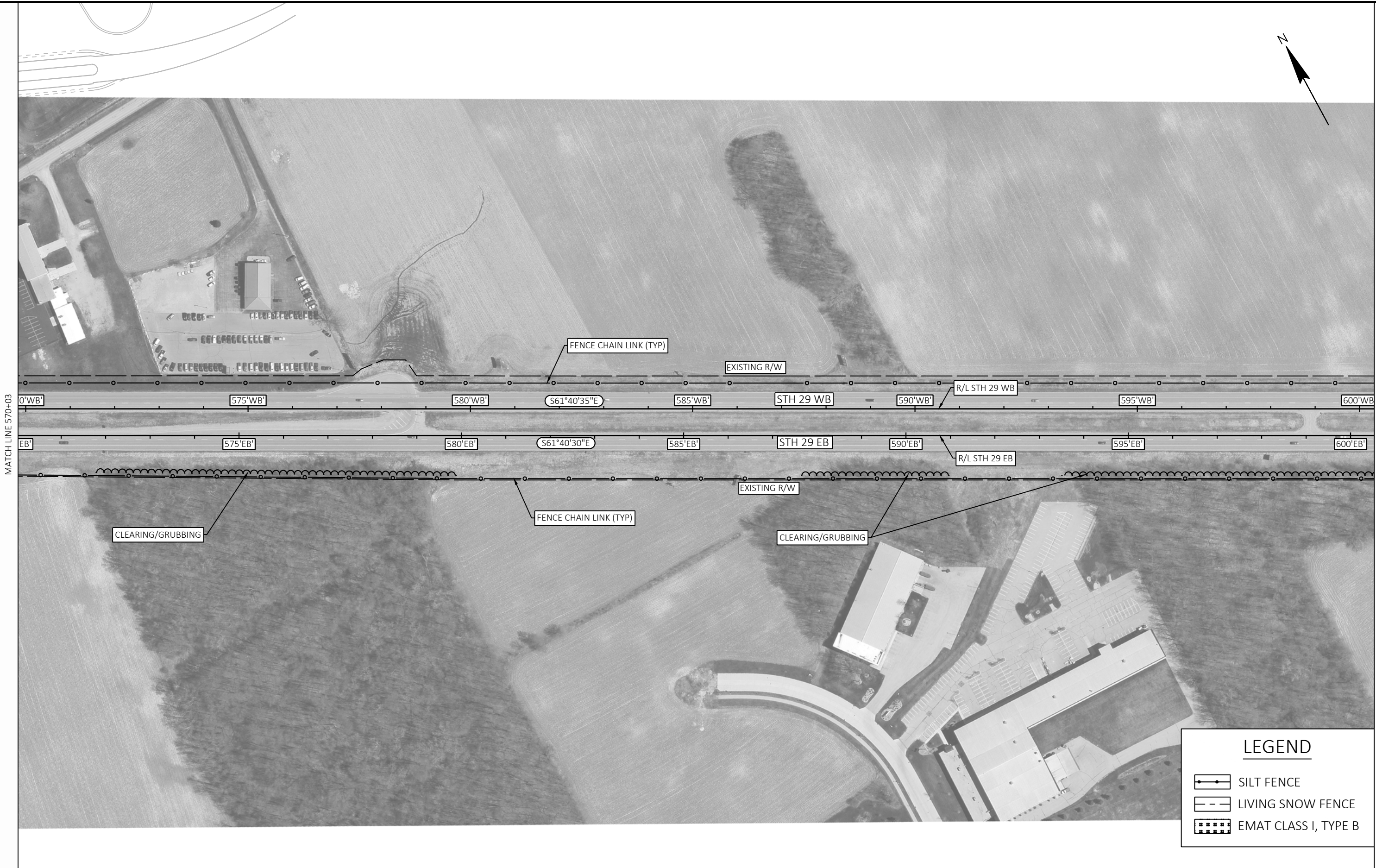
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LEGEND

- SILT FENCE
- LIVING SNOW FENCE
- EMAT CLASS I, TYPE B



5



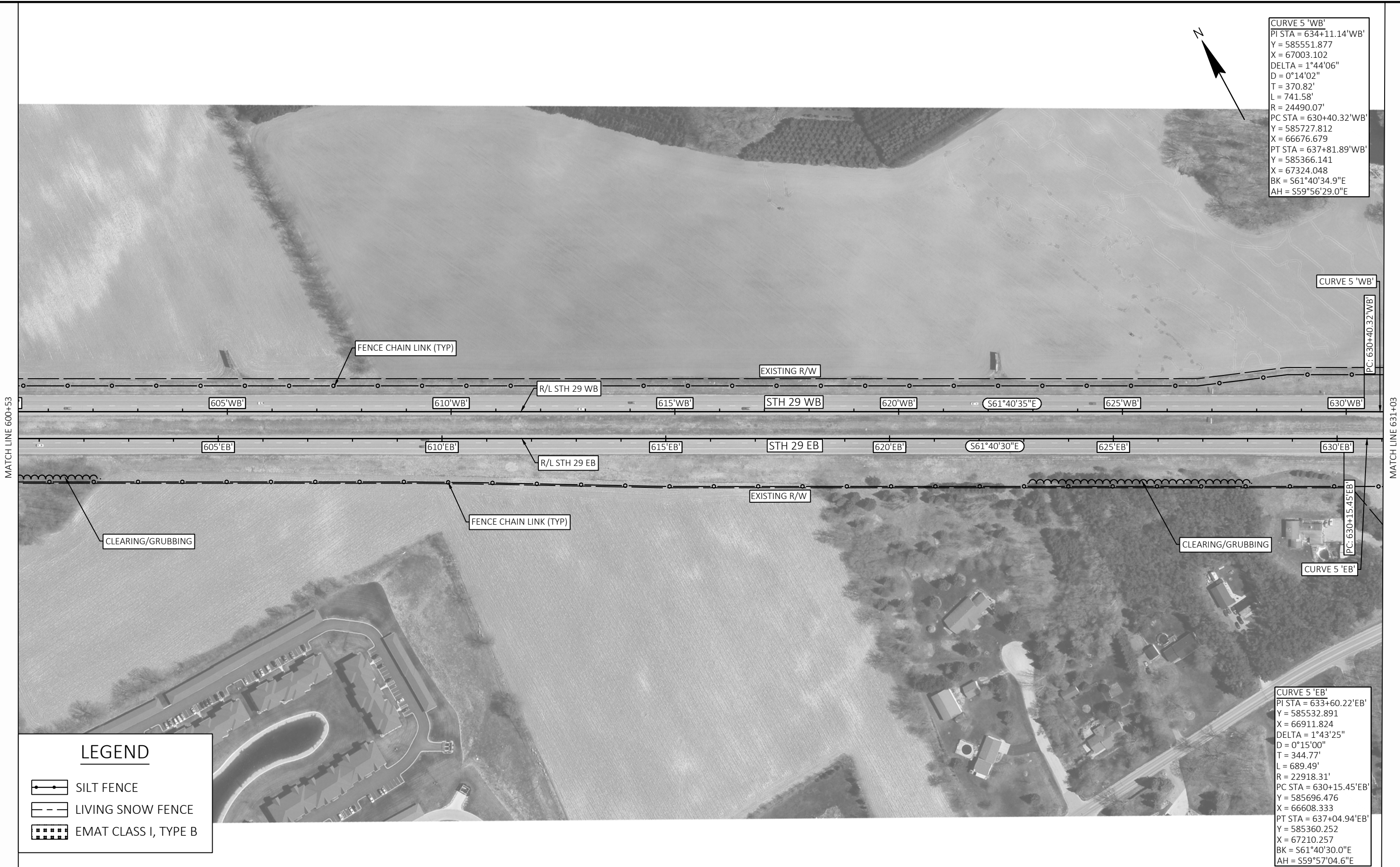
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LEGEND

SILT FENCE

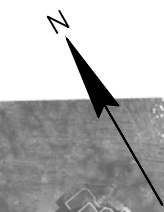
LIVING SNOW FENCE

EMAT CLASS I, TYPE B



CURVE 5 'WB'
PI STA = 634+11.14'WB'
Y = 585551.877
X = 67003.102
DELTA = 1°44'06"
D = 0°14'02"
T = 370.82'
L = 741.58'
R = 24490.07'
PC STA = 630+40.32'WB'
Y = 585727.812
X = 66676.679
PT STA = 637+81.89'WB'
Y = 585366.141
X = 67324.048
BK = S61°40'34.9"E
AH = S59°56'29.0"E

CURVE 5 'EB'
PI STA = 633+60.22'EB'
Y = 585532.891
X = 66911.824
DELTA = 1°43'25"
D = 0°15'00"
T = 344.77'
L = 689.49'
R = 22918.31'
PC STA = 630+15.45'EB'
Y = 585696.476
X = 66608.333
PT STA = 637+04.94'EB'
Y = 585360.252
X = 67210.257
BK = S61°40'30.0"E
AH = S59°57'04.6"E



MATCH LINE 631+03

MATCH LINE 661+53

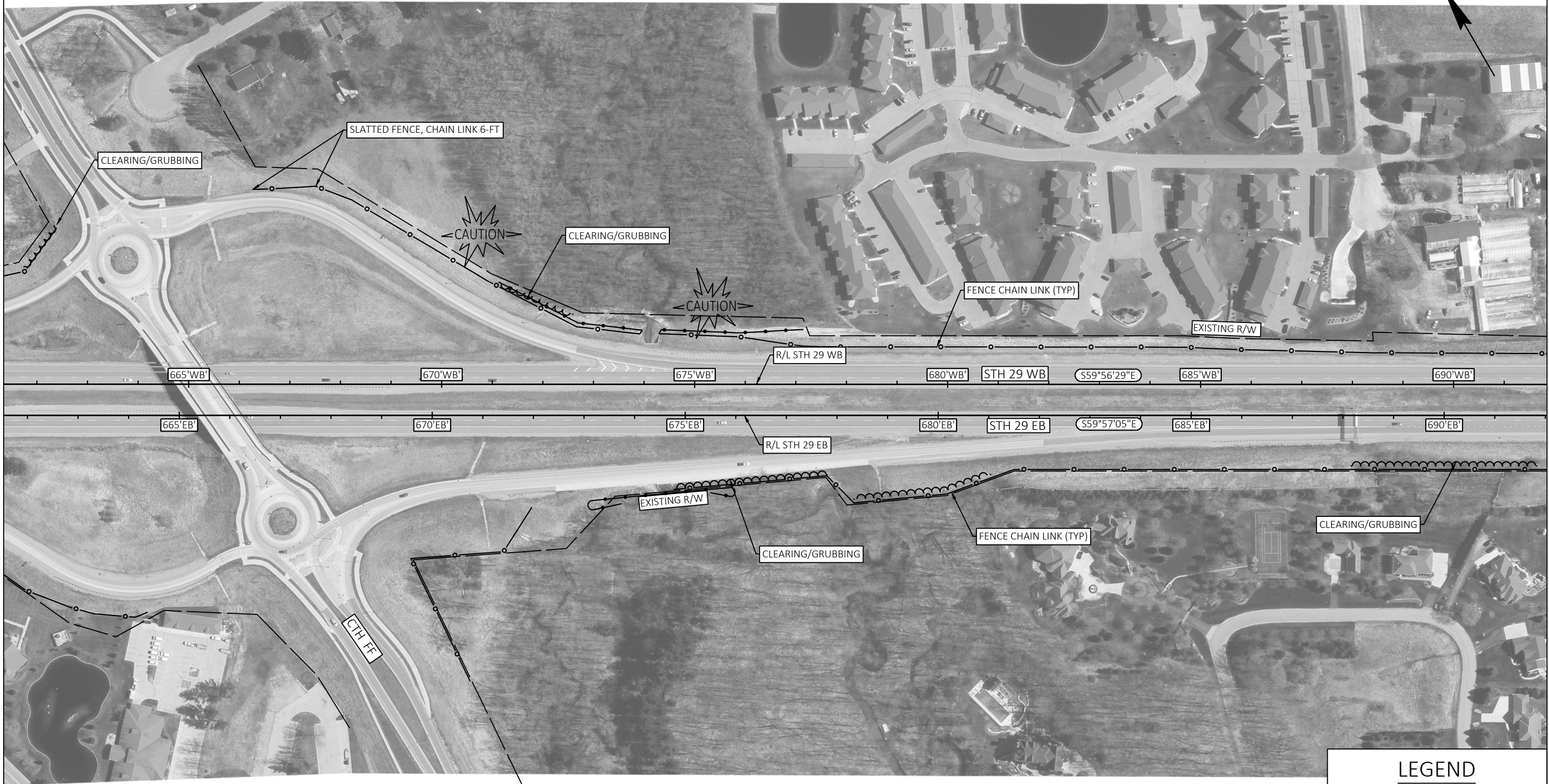
LEGEND

SILT FENCE

LIVING SNOW FENCE

5

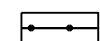
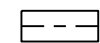
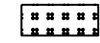
MATCH LINE 661+53



MATCH LINE 692+03

5

LEGEND

-  SILT FENCE
-  LIVING SNOW FENCE
-  EMAT CLASS I, TYPE B

PROJECT NO: 9200-10-73

HWY: STH 29

COUNTY: BROWN

PLAN SHEET

SHEET

41

E

FILE NAME : N:\PDS\C3D\92001001\SHEETPLAN\050201-PN.DWG
LAYOUT NAME - 050213-pn

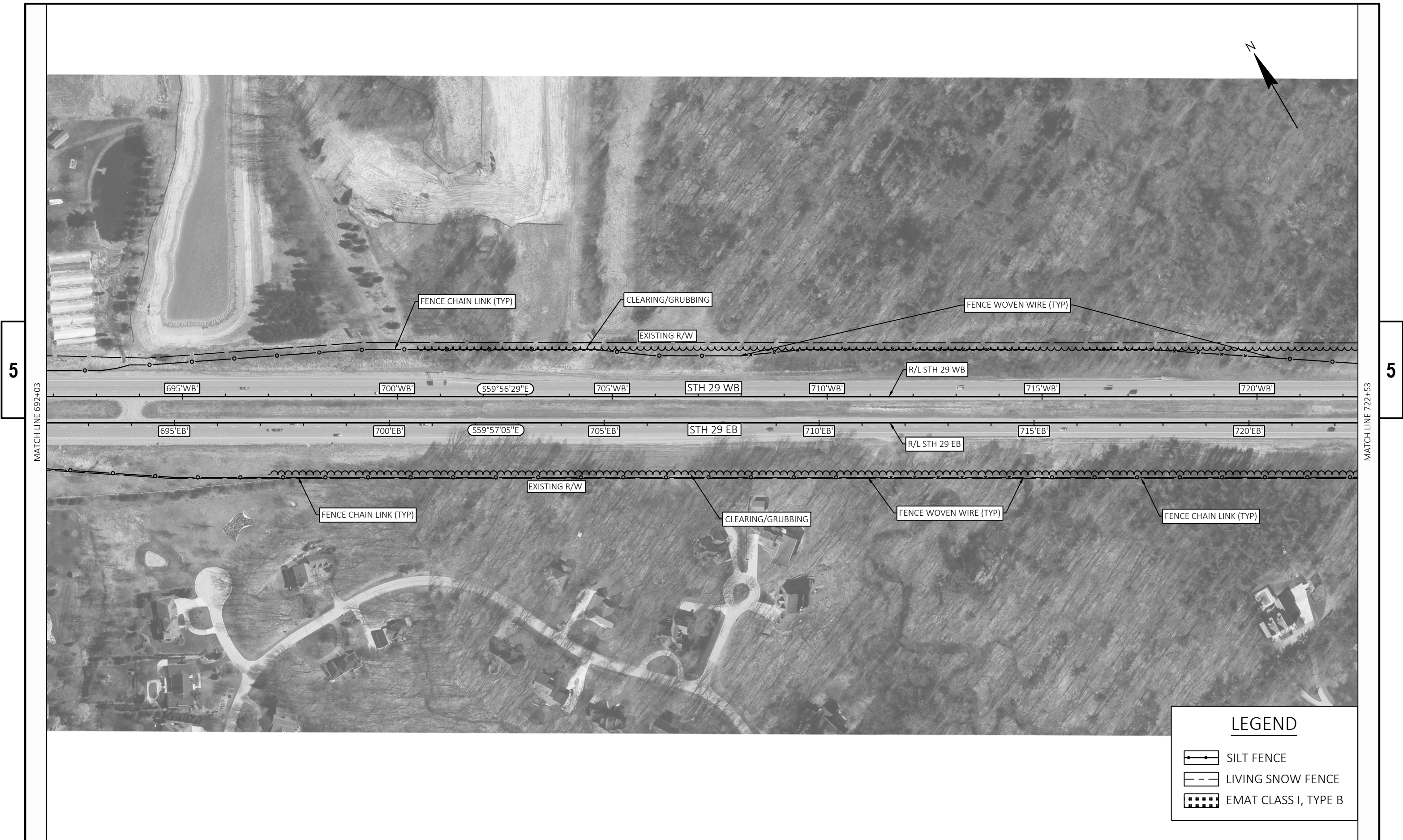
PLOT DATE : 10/3/2022 10:41 AM

PLOT BY : LORENZ, KELSEY ANN

PLOT NAME :

PLOT SCALE : 1 IN=200 FT

WISDOT/CADD5 SHEET 44

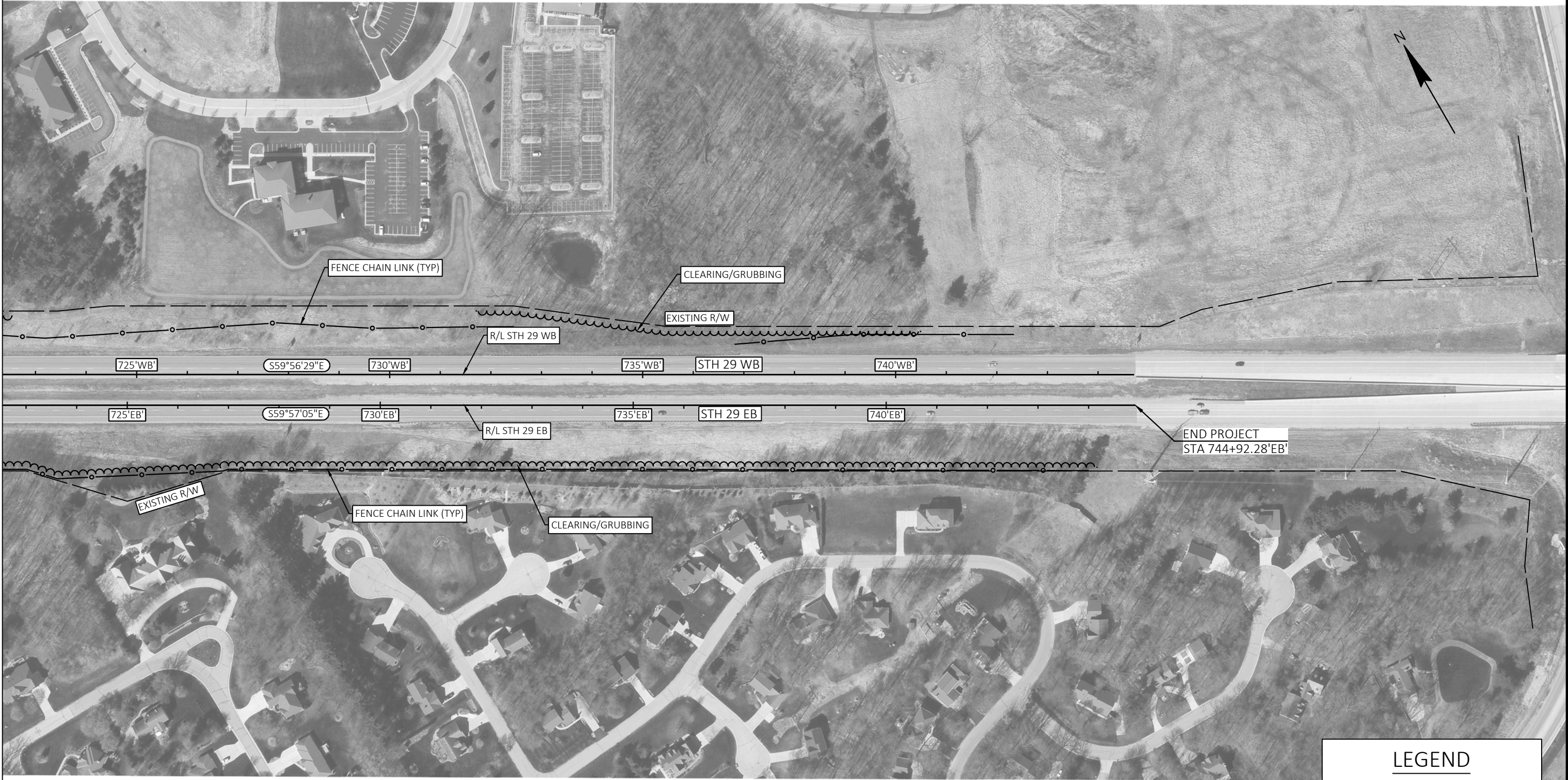


LEGEND

SILT FENCE

LIVING SNOW FENCE

EMAT CLASS I, TYPE B



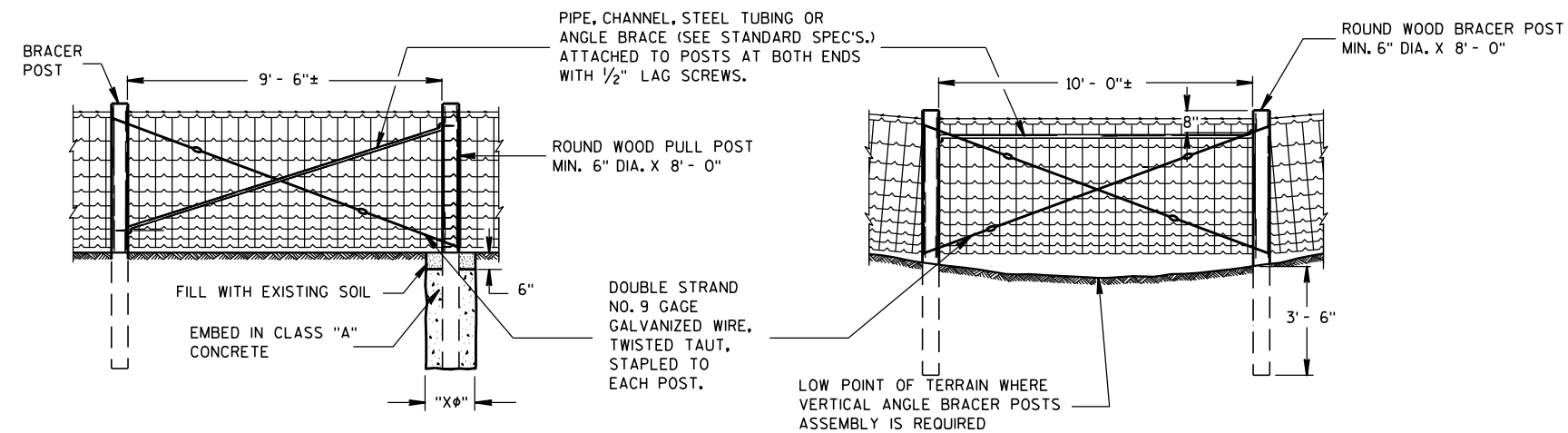
LEGEND

-  SILT FENCE
-  LIVING SNOW FENCE
-  EMAT CLASS I, TYPE B

Standard Detail Drawing List

15B01-08A	FENCE WOVEN WIRE
15B01-08B	FENCE WOVEN WIRE
15B03-15A	FENCE CHAIN LINK
15B03-15B	FENCE CHAIN LINK
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

ILLUSTRATION SHOWS POSITION OF STANDARD STEEL BRACE, DOUBLE STRAND GALVANIZED WIRE, AND THE POST TO BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM LEFT TO RIGHT. THE BRACES SHALL BE POSITIONED ON THE OPPOSITE DIAGONALS AND THE OPPOSITE POST SHALL BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM RIGHT TO LEFT.



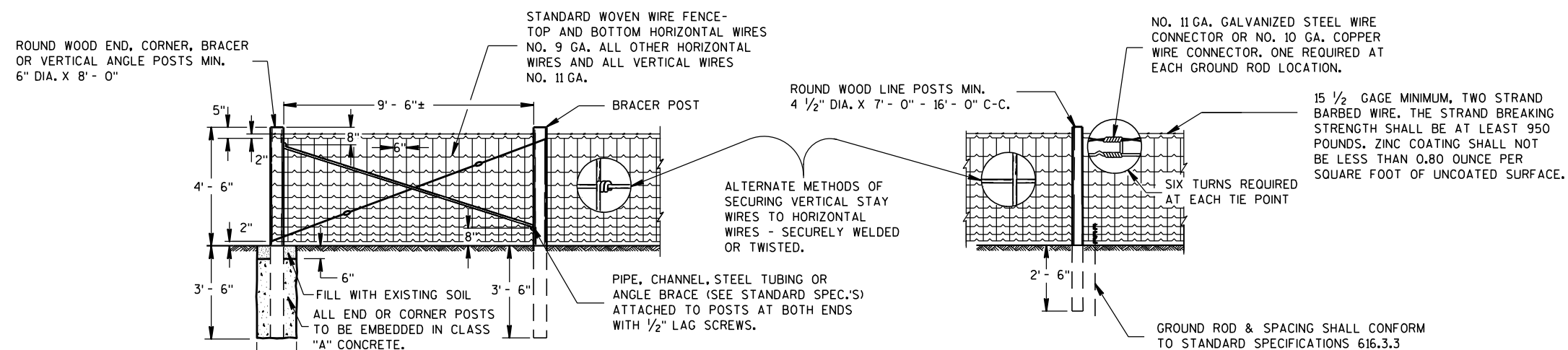
PULL OR STRETCHER POSTS ASSEMBLY

VERTICAL ANGLE BRACER POSTS ASSEMBLY

"X ϕ " = DIAMETER OF THE POST PLUS 12".

DO NOT STAPLE WIRE TIGHT TO THE LINE POSTS. ALLOW MOVEMENT OF WIRE FOR EXPANSION AND CONTRACTION. STAPLE ARRANGEMENT SHALL BE THE SAME FOR ALL OTHER POSTS EXCEPT THAT THEY SHALL BE DRIVEN TIGHT TO POSTS. ALL STAPLES SHALL BE 2" X 9 GAGE AND SHALL BE MANUFACTURED FROM GALVANIZED WIRE OR HOT DIP GALVANIZED AFTER FORMING. STAPLES SHALL HAVE SLASH-CUT POINTS.

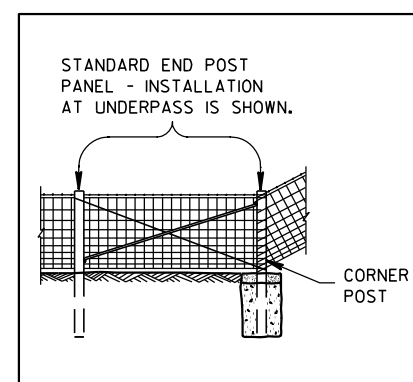
FENCE SHALL BE LOCATED 3'-0" INSIDE
THE RIGHT OF WAY LINE UNLESS
OTHERWISE INDICATED ON THE PLANS.



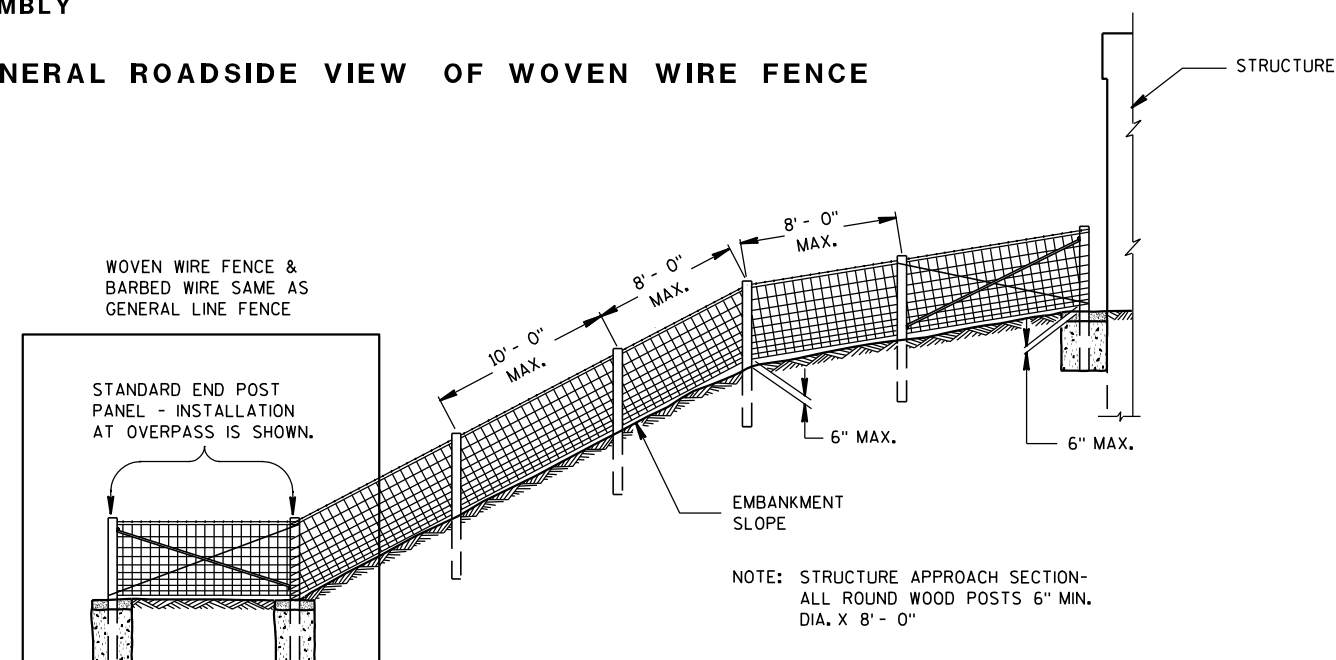
LINE FENCE CONSTRUCTION

END OR CORNER POSTS ASSEMBLY

GENERAL ROADSIDE VIEW OF WOVEN WIRE FENCE



ALTERNATE FENCE DESIGN AT STRUCTURE



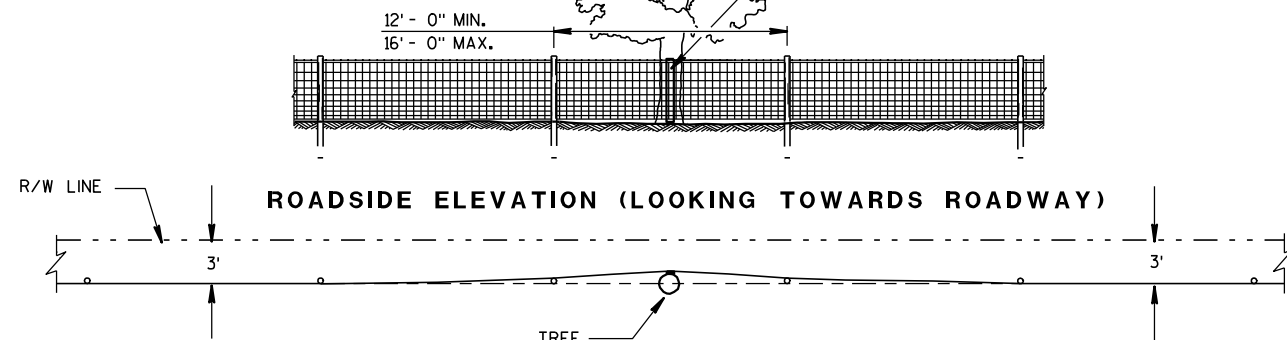
FENCE DESIGN AT STRUCTURE APPROACH

FENCE WOVEN WIRE

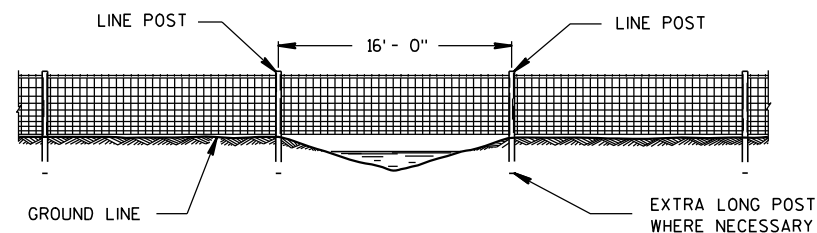
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

NOTE: TREE IN NORMAL FENCE LINE SPECIFICALLY ORDERED BY ENGINEER TO REMAIN IN PLACE.

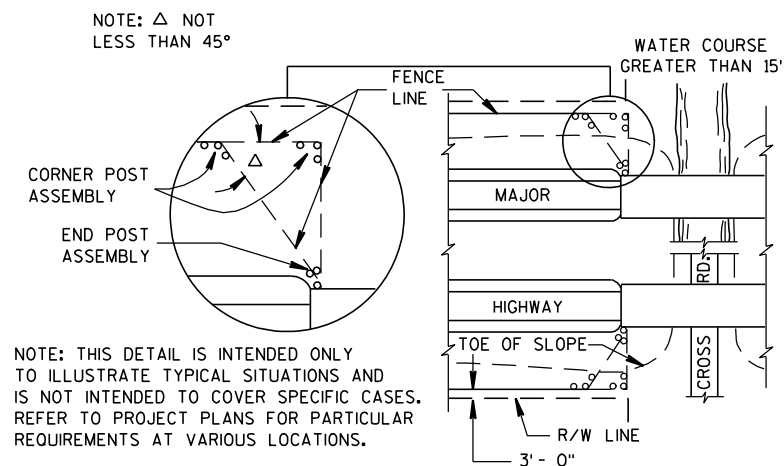
2" X 6" DOUGLAS FIR OR SO. YELLOW PINE PLACED BETWEEN TREE AND WOVEN WIRE FENCE. WOVEN WIRE FENCE AND BARBED WIRE TO BE STAPLED TO 2" X 6" LIKE AS TO LINE POST. 2" X 6" NOT FASTENED TO TREE.



PLAN VIEW
FENCE DESIGN AT TREES REMAINING
IN NORMAL FENCE LINE

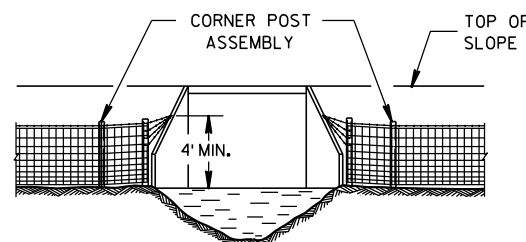


FENCE CONSTRUCTION OVER STREAM
COURSES OF 15 FT. OR LESS IN WIDTH

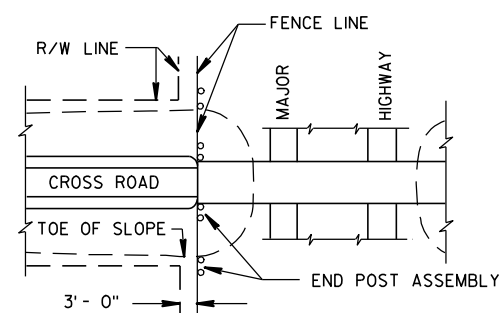


PLAN VIEW
MAJOR HIGHWAY OVERPASS OR STREAM COURSE
CROSSING OF GREATER THAN 15 FT. IN WIDTH

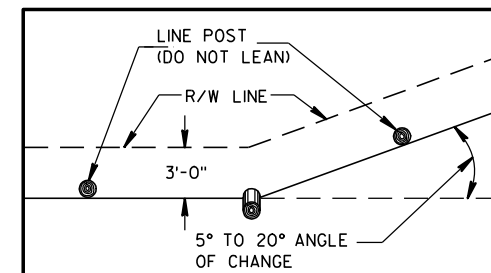
FENCE LOCATION AT STRUCTURES



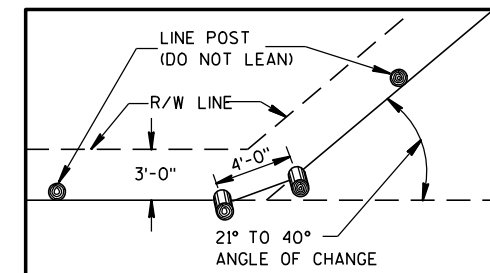
FENCE INSTALLATION TO WINGWALLS



PLAN VIEW
MAJOR HIGHWAY UNDERPASS



PLAN VIEW
SINGLE POST CORNER



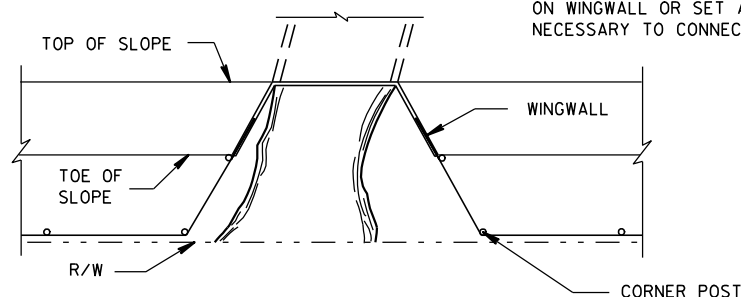
PLAN VIEW
DOUBLE POST CORNER

RIGHT OF WAY LINE CHANGE 40° AND LESS

NOTE: SINGLE AND DOUBLE POSTS SHALL BE A MIN. 6" DIA. X 8'-0" WITH A LEAN OF 4" TOWARD THE OUTSIDE OF THE CURVE.

WHEN THE RIGHT OF WAY LINE CHANGE IS MORE THAN 40° USE THE CORNER OR STRETCHER POSTS ASSEMBLY.

NOTE: PLACE A MINIMUM OF 4 STRANDS OF BARBED WIRE, 6" MAXIMUM CENTERS IN FAN SHAPE CONNECTED TO AN EYE BOLT ON WINGWALL OR SET A LONE POST WHEN NECESSARY TO CONNECT BARBED WIRE.

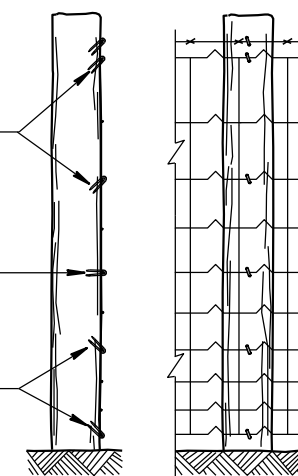


NOTE: WHEN POSTS ARE DRIVEN THE SMALL END SHALL BE DOWN.

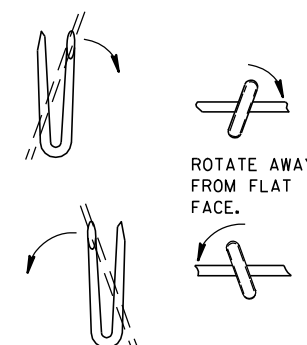
STAPLES SLOPED DOWNWARD FOR SUSTAINED GRADES AND OVER KNOLLS.

STAPLES LEVEL FOR LEVEL GROUND.

SLOPE UPWARDS WHEN FENCE TENDS TO LIFT.



END ELEVATION
FARM SIDE ELEVATION
FENCE MOUNTING DETAIL



LINE POST

FENCE WOVEN WIRE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4/4/2008

DATE

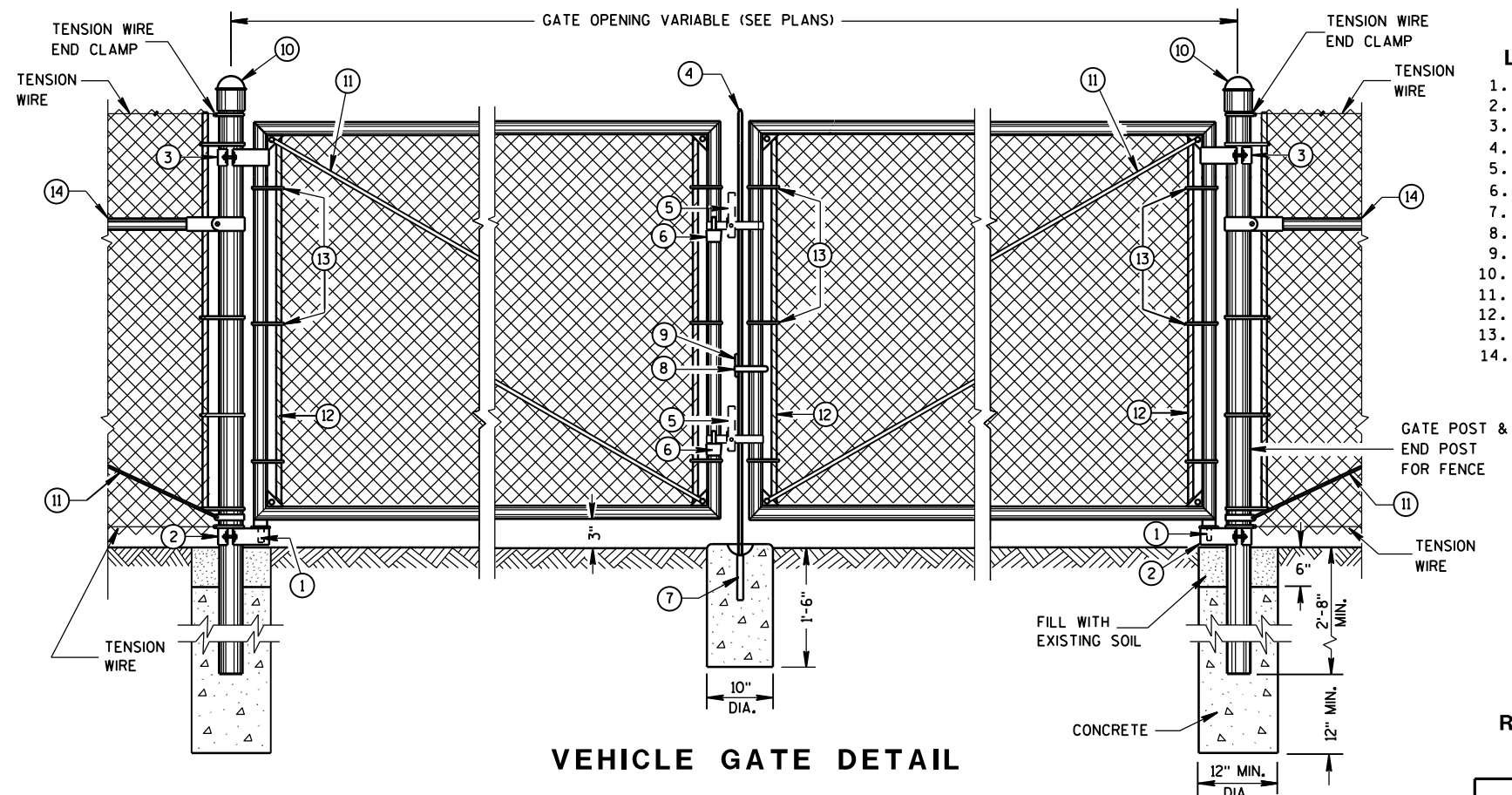
FHWA

/S/ Jerry H. 7----

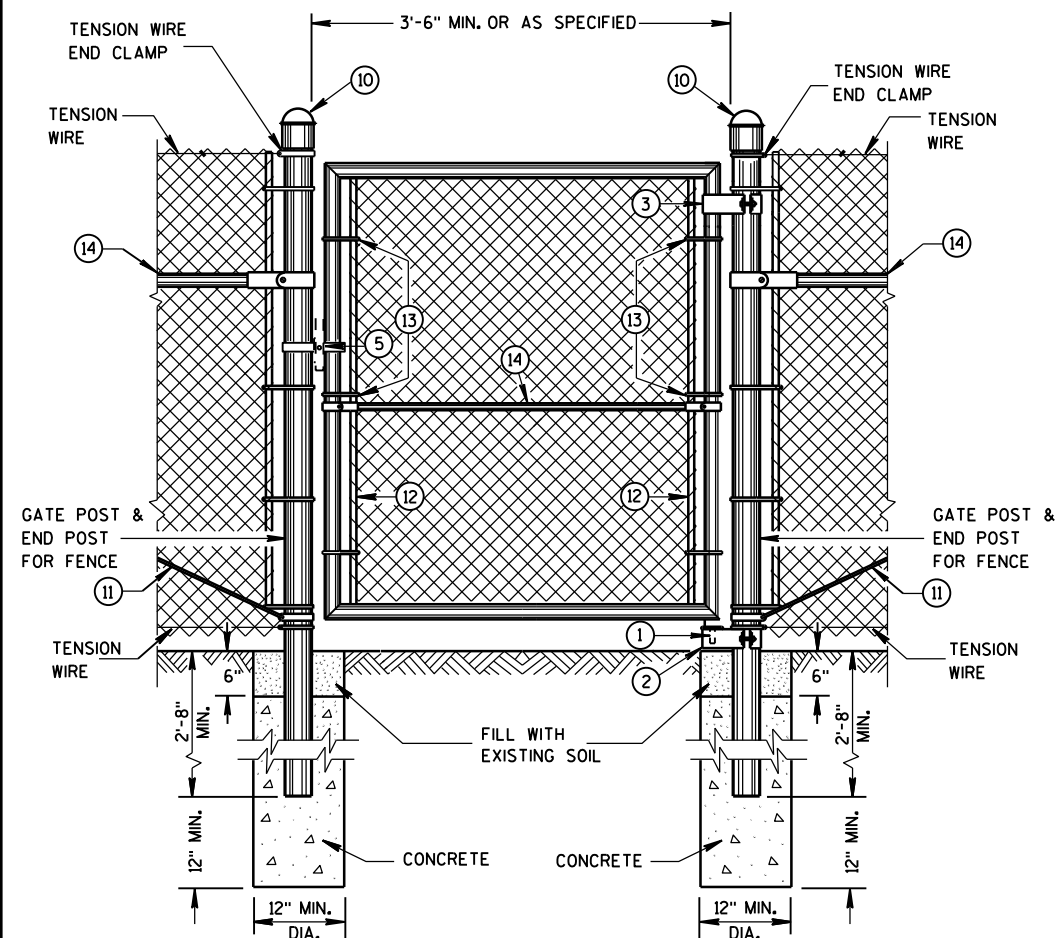
ROADWAY STANDARDS 146

ENGINEER

ENT



VEHICLE GATE DETAIL



PEDESTRIAN GATE DETAIL

- ## LEGEND

1. STRAIGHT PLUG
2. BOTTOM HINGE
3. TOP HINGE
4. PLUNGER ROD
5. FULCRUM LATCH
6. FORK CATCH *
7. PLUNGER ROD CATCH
8. LOCK KEEPER GUIDE
9. LOCK KEEPER
10. DOME TOPS
11. TRUSS RODS
12. TENSION BAR
13. TENSION BANDS
14. BRACE RAIL

*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

GENERAL NOTES

FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

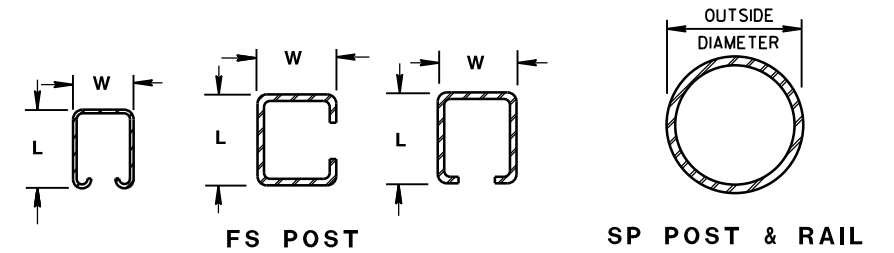
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE
RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.

USE TYPE 2, CLASS 3, MARCELLED/CRIMPED, TENSION WIRE PER ASTM A 817.



CROSS SECTIONS OF POSTS AND RAILS

**ROLLED-FORMED STEEL FENCE POST
(2.0 OZ./SQ. FT. COATING)**

POST TYPE	LENGTH (L) INCH	WIDTH (W) INCH	WEIGHT LBS/FT
FS1	1.625	1.25	1.35
FS2†	1.875	1.625	1.850
FS2	1.875	1.625	2.400
FS3	2.250	1.700	2.780

**ROUND STEEL FENCE POST
(1.8 OZ./SQ. FT. COATING)**

POST TYPE	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	1.660	0.140	2.270
SP2	1.900	0.145	2.720
SP3	2.375	0.154	3.650
SP4	2.875	0.203	5.800
SP5	4.000	0.226	9.120
SP6	6.625	0.280	18.990
SP7	8.625	0.322	28.580

REQUIRED POST SIZE FOR GATES

USE	LEAF WIDTHS FEET	POST TYPE
GATES	LESS THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EQUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EQUAL TO 23 FT.	SP7

REQUIRED FENCE POST SIZES

USE	FABRIC HEIGHTS FEET	POST TYPE
TERMINAL POSTS **	LESS THAN OR EQUAL TO 6 FT.	SP3
	GREATER THAN OR EQUAL TO 6 FT.	SP4
LINE POSTS	LESS THAN OR EQUAL TO 6 FT.	SP2
	LESS THAN OR EQUAL TO 8 FT.	SP3
	GREATER THAN OR EQUAL TO 8 FT.	SP4
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2+
	GREATER THAN OR EQUAL TO 8 FT.	FS3

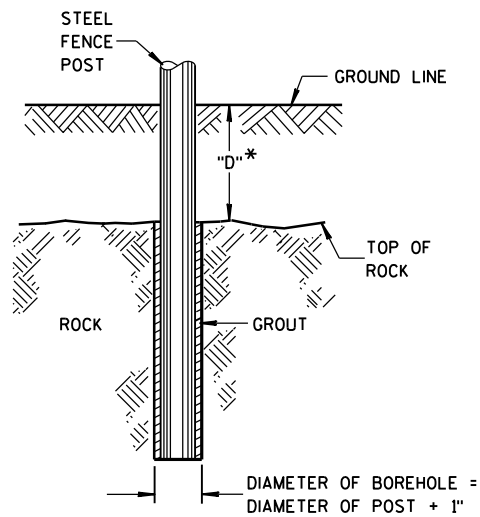
BRACE RAIL TYPES

USE		TYPE
BRACE RAIL	X	SP1 OR FS1

** INCLUDES END, CORNER, ANGLE, INTERSECTION AND
INTERMEDIATE BRACED POSTS

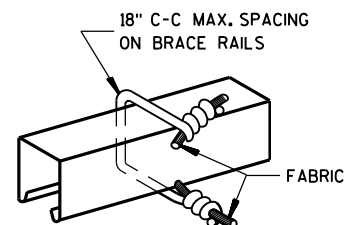
FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION⁴⁷



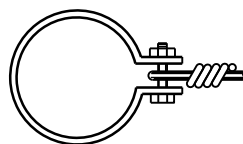
* IF "D" IS LESS THAN 2'-6",
DRILL ROCK AND INSTALL GROUT

ROCK INSTALLATION OF LINE POST

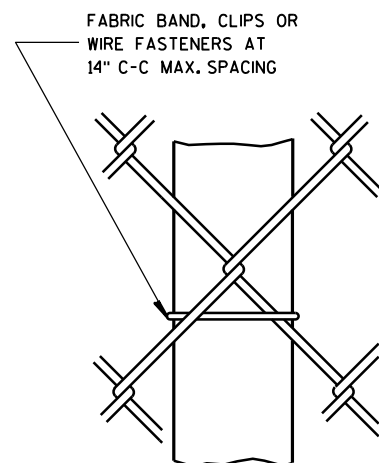


BRACE RAIL FABRIC FASTENER

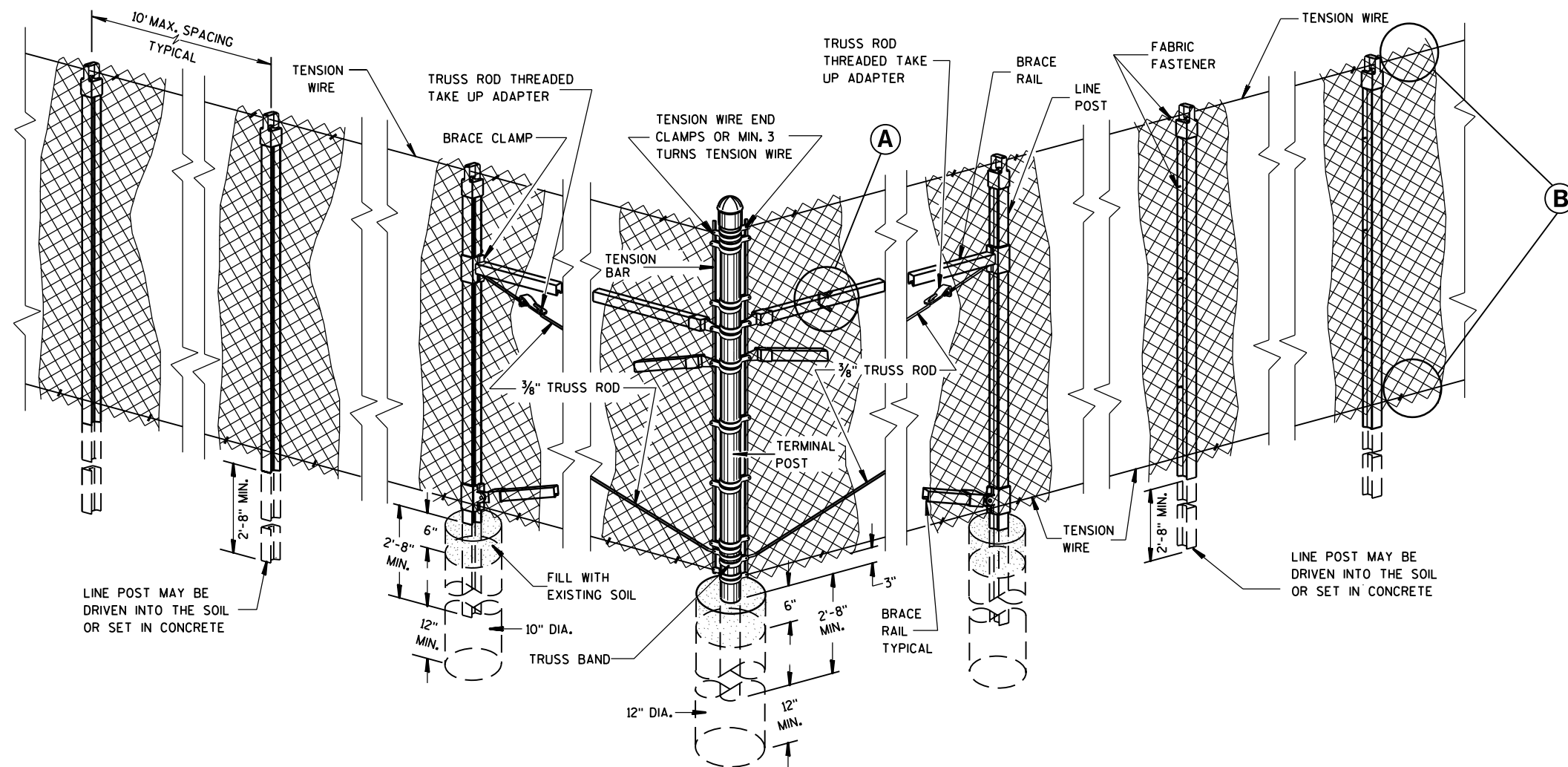
(A)



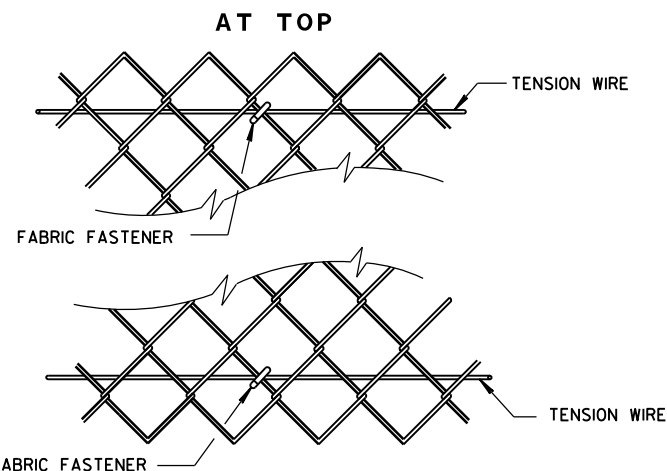
TENSION WIRE END CLAMP



LINE POST FABRIC FASTENER



END, CORNER, ANGLE INTERSECTION & INTERMEDIATE BRACED POSTS



(B)

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

FEB. 2015

DATE

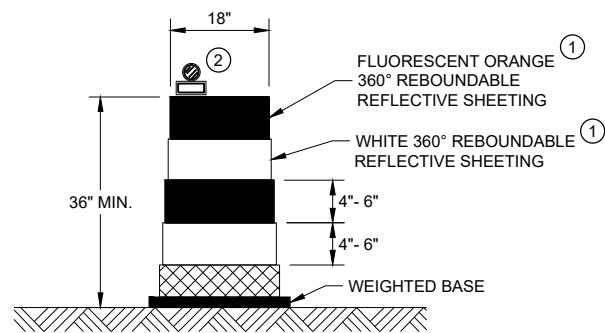
FHWA

/S/ Jerry H. Zogg

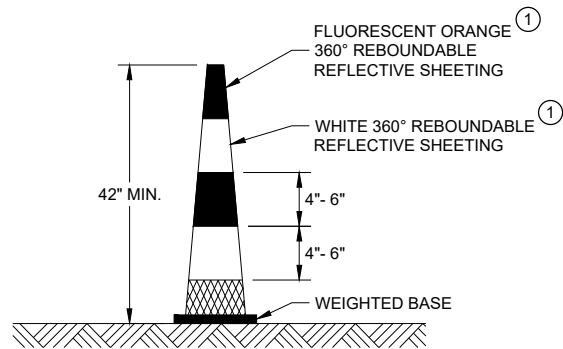
ROADWAY STANDARDS 048

ENGINEER

ENT

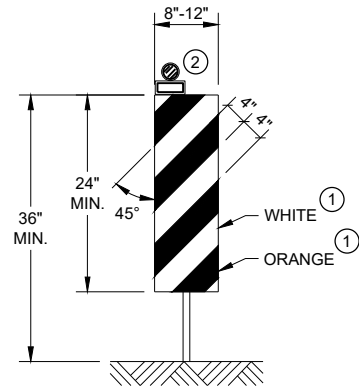


DRUM



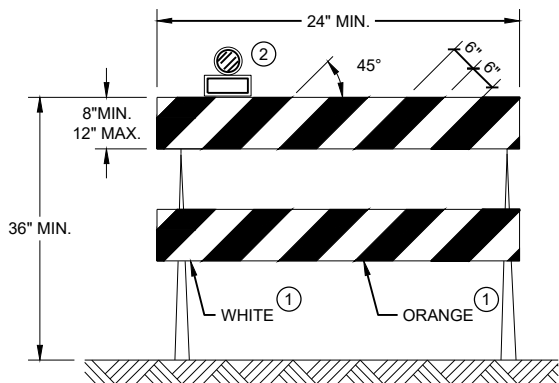
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



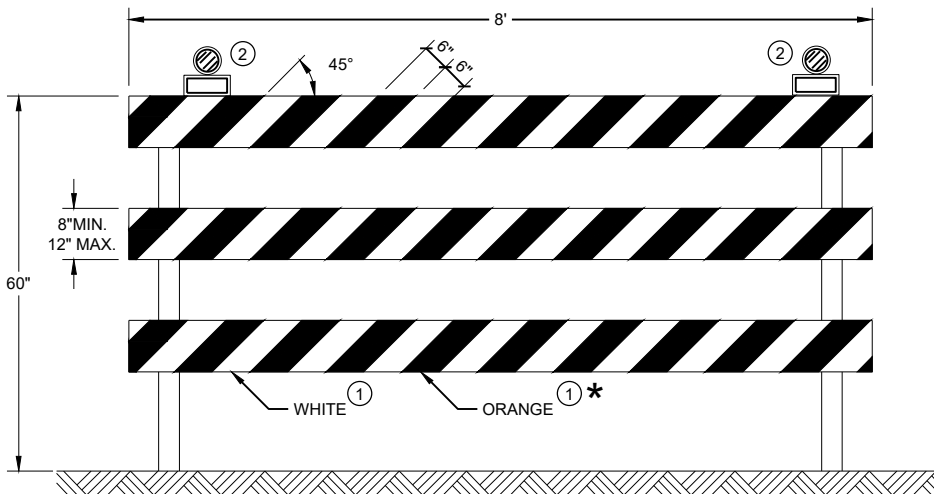
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

GENERAL NOTES

- ① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- ② LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER 49
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.

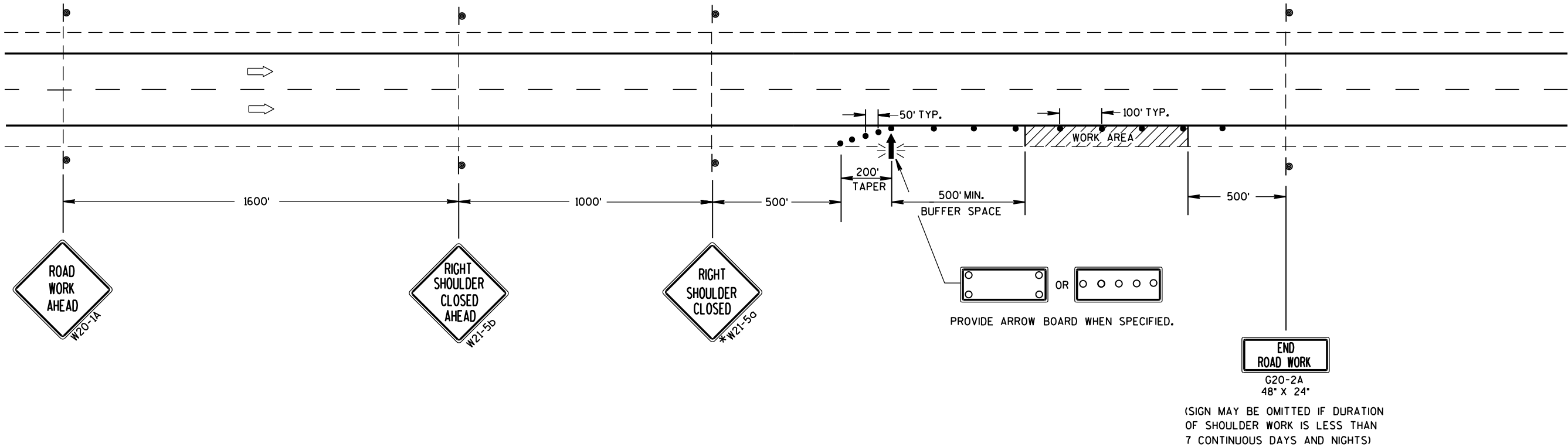
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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.

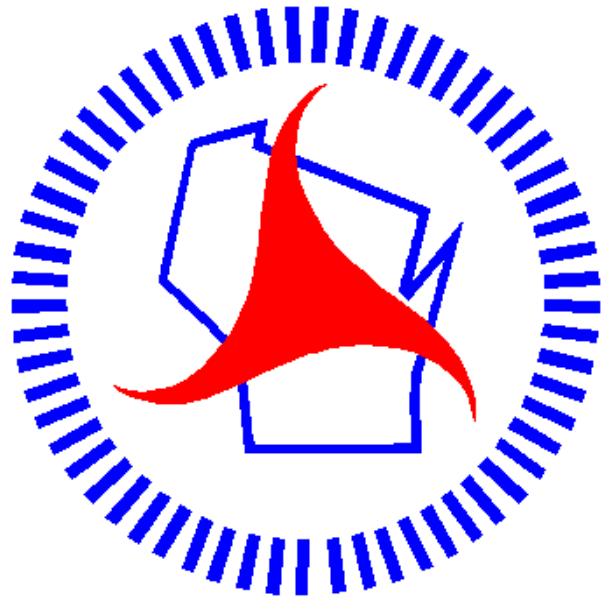


TRAFFIC CONTROL
SHOULDER CLOSURE ON DIVIDED
ROADWAY, SPEEDS GREATER
THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 /S/ Peter Amakobe Atepe
DATE STATEWIDE WORK ZONE SAFETY ENGINEER
FHWA

Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

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