LAX

MARCH 2019

PROJECT ID: 5085-00-70
WITH: NA

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 = 298

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

SHELBY-GREENFIELD

CTH GI TO STH 35

CTH GI

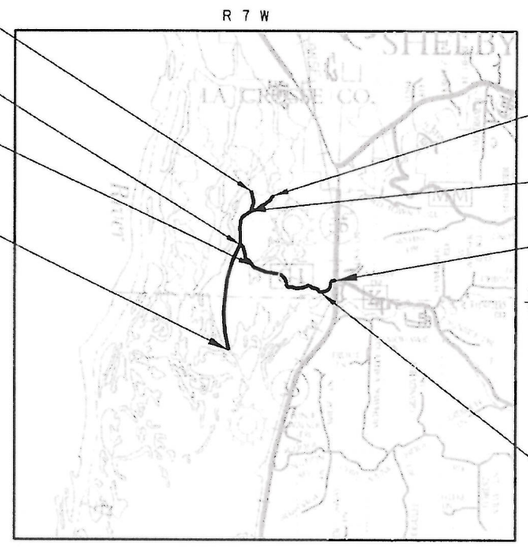
LA CROSSE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
5085-00-70	WISC 2018483	1

STATE PROJECT NUMBER
5085-00-70







END CONSTRUCTION
STA 240+50.00

BEGIN CONSTRUCTION
STA 200+00.00

STRUCTURE
C-32-103

END PROJECT
STA 179+30.52
Y=627533.861
X=1643041.824

END CONSTRUCTION
STA 524+18.28

BEGIN CONSTRUCTION
STA 500+00.00

BEGIN PROJECT
STA 10+00.00
Y=632405.387
X=1650887.530

EXCEPTION TO NET CENTERLINE LENGTH
STA 20+60.76 TO STA 22+79.46
STR B-32-76

DESIGN DESIGNATION 5085-00-00

	CTH GI
A.A.D.T. (2018)	= 810
A.A.D.T. (2038)	= 900
D.H.V.	= 3.2
D.D.	= 60/40
T. DHV	= 3.8%
DESIGN SPEED	= 25 MPH
ESALS	= 73,000

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 (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE
- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES
- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

LAYOUT
SCALE 0 1 MI.

TOTAL NET LENGTH OF CTH GI CENTERLINE = 2.489 MI.
TOTAL NET LENGTH OF HUNTERS POINT RD CENTERLINE = 0.721 MI.
TOTAL NET LENGTH OF SHELTER 5 RD CENTERLINE = 0.458 MI.
TOTAL NET LENGTH OF NORTH LANDING RD CENTERLINE = 0.767 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN NAD 1983 STATE PLANE SOUTH.

"ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 NAVD 88 (2007)."

ACCEPTED FOR
COUNTY of LA CROSSE
10/30/18
DATE:

ORIGINAL PLANS PREPARED BY:
CBS SQUARED INC.

10-27-18

JOHN W. BECKFIELD 34073 EAU CLAIRE, WI
WISCONSIN PROFESSIONAL ENGINEER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
Surveyor: CBS SQUARED INC.
Designer: CBS SQUARED INC.
Local Program Manager: JOHN BAINTER

APPROVED FOR THE DEPARTMENT
DATE: 10/31/18
(Signature)

E

COUNTY: LA CROSSE

2

GENERAL NOTES;

ABUT	ABUTMENT
AC	ACRE
AGG	AGGREGATE
AH	AHEAD
ET AL	AND OTHERS
∠	ANGLE
AADT	ANNUAL AVERAGE DAILY TRAFFIC
ASPH	ASPHALTIC
APM	ASPHALTIC PLANT MIX
AVG	AVERAGE
BK	BACK
BF	BACK FACE
B & B	BALLED AND BURLAPPED
B & P	BALLED AND POTTED
BR	BARE ROOT
BRP	BARE ROOT POTTED
BL OR B/L	BASE LINE
BM	BENCH MARK
BLK	BLOCK
BR	BRIDGE
CB	CATCH BASIN
C	CELSIUS
CL OR C/L	CENTER LINE
CC	CENTER TO CENTER
□	CENTRAL ANGLE OR DELTA
CH	CHORD
CH BRG	CHORD BEARING
CE	COMMERCIAL ENTRANCE
CONC	CONCRETE
CB#	CONTROL BASE
CO	COUNTY
CTH	COUNTY TRUNK HIGHWAY
CR	CREEK
CR	CRUSHED
CABC	CRUSHED AGGREGATE BASE COURSE
CY OR CUYD	CUBIC YARD
CULT	CULTIVATED
CULV	CULVERT
CP	CULVERT PIPE
CPCA	CULVERT PIPE CORRUGATED ALUMINUM
CPCPE	CULVERT PIPE CORRUGATED POLYETHYLENE
CPCPP	CULVERT PIPE CORRUGATED POLYPROPYLENE
CPCS	CULVERT PIPE CORRUGATED STEEL
CPCSPC	CULVERT PIPE CORRUGATED STEEL POLYMER COATED
CPCSAC	CULVERT PIPE CORRUGATED STEEL ALUMINUM COATED
CPRC	CULVERT PIPE REINFORCED CONCRETE
CPRCA	CULVERT PIPE REINFORCED CONCRETE ARCH
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
CPS	CULVERT PIPE SALVAGED
CPT	CULVERT PIPE TEMPORARY
C & G	CURB AND GUTTER
(D)	DEED
D	DEGREE OF CURVE
DHV	DESIGN HOUR VOLUME
DIA	DIAMETER
DD	DIRECTIONAL DISTRIBUTION
DISCH	DISCHARGE
DIST	DISTRICT
DG	DITCH GRADE
DOC	DOCUMENT
DWY	DRIVEWAY
E	EAST
X	EAST GRID COORDINATE
EB	EASTBOUND
ELEC	ELECTRIC, ELECTRICAL
EL OR ELEV	ELEVATION
EMB	EMBANKMENT
EVP	EMERGENCY VEHICLE PREEMPT
EVPR	EMERGENCY VEHICLE PREEMPT RECEIVER
EW	ENDWALL
ENT	ENTRANCE
ESALS	EQUIVALENT SINGLE AXLE LOADS
EST	ESTATE
EXC	EXCAVATION
EBS	EXCAVATION BELOW SUBGRADE
EXIST	EXISTING
EXP	EXPANSION
FF	FACE TO FACE
FP	FENCE POST
FERT	FERTILIZE
FE	FIELD ENTRANCE
F	FILL
FG	FINISHED GRADE
FAB	FLASHING ARROW BOARD
FL OR F/L	FLOW LINE
FT	FOOT
FTG	FOOTING
FDN	FOUNDATION

FTMS	FREEWAY TRAFFIC MANAGEMENT SYSTEM
G	GARAGE
GN	GRID NORTH
HR	HANDICAP RAMP
HT	HEIGHT
HES	HIGH EARLY STRENGTH
H	HOUSE
CWT	HUNDREDWEIGHT
HYD	HYDRANT
IN DIA	INCH DIAMETER
INL	INLET
ID	INSIDE DIAMETER
INTERS	INTERSECTION
I	INTERSECTION ANGLE
INV	INVERT
IP	IRON PIPE OR PIN
JT	JOINT
JCT	JUNCTION
JB#	JUNCTION BOX
LC	LAND CONTRACT
LT	LEFT
LHF	LEFT-HAND FORWARD
L	LENGTH OF CURVE
LIN FT OR LF	LINEAR FOOT
L	LITER
LC	LONG CHORD OF CURVE
LS	LUMP SUM
MAINT	MAINTENANCE
MGR	MANAGER
MH	MANHOLE
MP	MARKER POST
M	MARSH
ML OR M/L	MATCH LINE
MATL	MATERIAL
MB	MESSAGE BOARD
NOM	NOMINAL
NC	NORMAL CROWN
NW OR N/W	NORMAL WATER
N	NORTH
Y	NORTH GRID COORDINATE
NB	NORTHBOUND
NO	NUMBER
OBLIT	OBLITERATE
OL	OUT LOT
OD	OUTSIDE DIAMETER
PSD	PASSING SIGHT DISTANCE
PAVT	PAVEMENT
B	PEDESTRIAN PUSH BUTTON
PERM	PERMANENT
PLE	PERMANENT LIMITED EASEMENT
PACS	PIPE ARCH CORRUGATED STEEL
PACSAC	PIPE ARCH CORRUGATED STEEL ALUMINUM COATED
PAPCCS	PIPE ARCH POLYMER COATED CORRUGATED STEEL
PCPCS	PIPE CATTLE PASS CORRUGATED STEEL
PASP	PIPE ARCH STRUCTURAL PLATE
PCP	PIPE CATTLE PASS
PCPRC	PIPE CATTLE PASS REINFORCED CONCRETE
PSP	PIPE STRUCTURAL PLATE
PU	PIPE UNDERDRAIN
PUU	PIPE UNDERDRAIN UNPERFORATED
PUW	PIPE UNDERDRAIN WRAPPED
PUWP	PIPE UNDERDRAIN WRAPPED AND PLOWED
PT	POINT
PCC	POINT OF COMPOUND CURVE
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
POC	POINT ON CURVE
POT	POINT ON TANGENT
PVC	POLYVINYL CHLORIDE
PCC	PORTLAND CEMENT CONCRETE
LB	POUND
PSI	POUNDS PER SQUARE INCH
PE	PRIVATE ENTRANCE
PROJ	PROJECT
PL	PROPERTY LINE
PB#	PULL BOX
QCD	QUITCLAIM DEED
R	RADIUS
RP	RADIUS POINT
RR	RAILROAD
RY	RAILWAY
RM	RAMP METER
R	RANGE
RECY	RECYCLED
RL OR R/L	REFERENCE LINE
RP	REFERENCE POINT

RCPA	REINFORCED CONCRETE PIPE ARCH
REBAR	REINFORCEMENT BAR
REINF	REINFORCING OR REINFORCEMENT
REL	RELOCATE
REM	REMAINING
REQD	REQUIRED
RES	RESIDENCE OR RESIDENTIAL
RW	RETAINING WALL
RT	RIGHT
RHF	RIGHT-HAND FORWARD
R/W	RIGHT-OF-WAY
R	RIVER
RD	ROAD
RDWY	ROADWAY
SALV	SALVAGED
SSS	SANITARY AND STORM SEWER
SANS	SANITARY SEWER
SEC	SECTION
SHLDR	SHOULDER
SHR	SHRINKAGE
SW	SIDEWALK
SB#	SIGNAL BASE
S	SOUTH
SB	SOUTHBOUND
SP	SPECIAL
SC	SPECIAL CROSSING
SPECS	SPECIFICATIONS
SQ	SQUARE
SF OR SQ FT	SQUARE FEET
SY OR SQ YD	SQUARE YARD
STD	STANDARD
SDD	STANDARD DETAIL DRAWINGS
STH	STATE TRUNK HIGHWAYS
STA	STATION
SSD	STOPPING SIGHT DISTANCE
SS	STORM SEWER
SSPC	STORM SEWER PIPE COMPOSITE
SSPNRC	STORM SEWER PIPE NON REINFORCED CONCRETE
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
SSCPE	STORM SEWER PIPE CORRUGATED POLYETHYLENE
SSCPP	STORM SEWER PIPE CORRUGATED POLYPROPYLENE
SSPRCHE	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
STR	STRUCTURE OR STRUCTURAL
SUBD	SUBDIVISION
SE	SUPERELEVATION
SURF	SURFACE
SL OR S/L	SURVEY LINE
T	TANGENT
TEL	TELEPHONE
TEMP	TEMPORARY
TI	TEMPORARY INTEREST
TLE	TEMPORARY LIMITED EASEMENT
TPM	TEMPORARY PAVEMENT MARKING
TPMRT	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
MBM	THOUSAND FEET BOARD MEASURE
T	TON
TC	TOP OF CURB
T OR TN	TOWN
TRANS	TRANSITION
TL OR T/L	TRANSIT LINE
T	TRUCKS (PERCENT OF)
TYP	TYPICAL
UG	UNDERGROUND
USH	UNITED STATES HIGHWAY
VAR	VARIABLE
V	VELOCITY OR DESIGN SPEED
VERT	VERTICAL
VC	VERTICAL CURVE
VPCC	VERTICAL POINT OF COMPOUND CURVE
VPC	VERTICAL POINT OF CURVE
VPI	VERTICAL POINT OF INTERSECTION
VPRC	VERTICAL POINT OF REVERSE CURVE
VPT	VERTICAL POINT OF TANGENCY
VIT	VITRIFIED
VOL	VOLUME
WAT	WATER
WM	WATER MAIN
WV	WATER VALVE
W	WEST
WET	WETLAND
WB	WESTBOUND
YD	YARD

2

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 DIGGER'S HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA.

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

BEARINGS SHOWN ON THE PLANS ARE GRID BEARINGS TO THE NEAREST SECOND.

ALIGNMENT WAS BASED ON CENTERLINE SHOTS, IF ADJUSTMENTS TO THE ALIGNMENT ARE NEEDED IN THE FIELD, THE ADJUSTMENTS WILL BE APPROVED BY THE ENGINEER. ADJUSTMENTS SHALL BE INCIDENTAL TO THE PROJECT.

WHEN THE QUANTITY OF BASE AGGREGATE IS MEASURED BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

VERTICAL REFERENCE DATUM IS NAVD 88 (2012).

HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYER THICKNESS:

PAVEMENT THICKNESS (INCH)	LOWER (INCH)	UPPER (INCH)
4.0	2.25	1.75
2.0	-	2.0

USE 25' TRANSITION BETWEEN HMA OVERLAY AND UPPER LAYER PLACEMENT.

ORDER OF TYPICAL SECTION AND DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
INTERSECTION DETAILS
EROSION CONTROLTRAFFIC CONTROL/STAGING PLANS
ALIGNMENT DIAGRAM

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 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE: TURF			.25 .32			.27 .34			.28 .36			.30 .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 = 29.036 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 9.21 ACRES

UTILITY CONTACTS

GOOSE ISLAND CAMPGROUND
LA CROSSE COUNTY FACILITIES DEPARTMENT
212 6TH STREET NORTH, RM 1800
LA CROSSE, WI 54601
PHONE: (608)785-9770
ATTENTION:JAMES M. SPEROPULOS, DIRECTOR
EMAIL:JSPEROPULOS@LACROSSECOUNTY.ORG

CENTURYLINK - COMMUNUCATION LINE
333 N FRONT STREET
PO BOX 4800
LA CROSSE, WI 54602
PHONE: (608)796-7869
ATTENTION:TOM MURRAY
EMAIL:TOM.MURRAY@CENTURYLINK.COM

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

MUNICIPALITY CONTACT

LA CROSSE COUNTY HIGHWAY DEPARTMENT
301 CARLSON ROAD
WEST SALEM, WI 54669
TELEPHONE: (608)786-3810
ATTENTION: RON CHAMBERLAIN, COMMISSIONER
EMAIL: rchamberlain@lacrossecounty.org

WISCONSIN DNR LIASON

DEPARTMENT OF NATURAL RESOURCES
3550 MORMON COULEE ROAD
LA CROSSE, WI 54601
TELEPHONE: (608)785-9115
ATTENTION: KAREN KALVELAGE
EMAIL: KAREN.KALVELAGE@WISCONSIN.GOV

DESIGN CONTACT

CBS SQUARED INC.
770 TECHNOLOGY WAY
CHIPPEWA FALLS, WI 54729
TELEPHONE: (715)861-5226
ATTENTION: JOHN BECKFIELD, PE

2

2

BEGIN PROJECT
STA 10+00.00

CTH GI

CTH K

STH 35

BNSF

CTH GI 3

MATCHLINE STA 106+00

PARK MAINTENANCE SHOP

MANAGERS OFFICE

WEST
LANDING RD

WEST BOAT
LANDING

NORTH
LANDING RD

BEGIN CONSTRUCTION
NORTH LANDING RD
STA 200+00.00

NORTH LANDING RD

BEGIN CONSTRUCTION
SHELTER 5 RD
STA 500+00.00

SHELTER 5 RD

NORTH BOAT
LANDING

END CONSTRUCTION
STA 240+50.00

END CONSTRUCTION
STA 524+18.28

CTH GI
HUNTERS
POINT RD

CANADIAN HONKER LN

LOCUST LN

RIVER RD

RIVER LN

PINTAIL RD

MALLARD RD

BLUE GOOSE LN

SNOW GOOSE LN

CANVASBACK RD

BLUE HERON RD

EGRET RD

KINGFISHER RD

STA 141+42.00
END CTH GI
BEGIN HUNTERS POINT RD

MATCHLINE STA 106+00

CTH GI

LOCUST LN

RIVER RD

TEAL RD

HUNTERS POINT RD

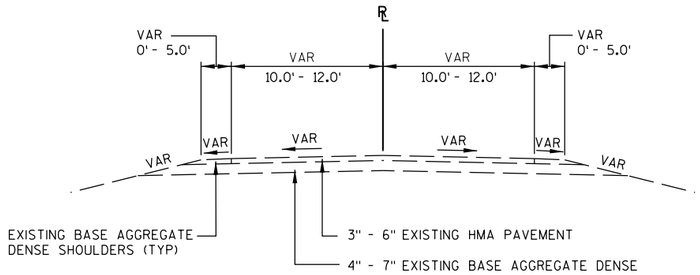
HUNTERS POINT
LANDING

SOUTH BOAT
LANDING

END PROJECT
STA 179+30.52

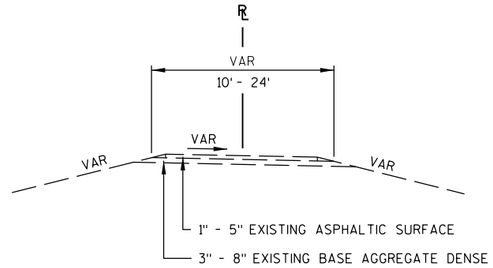
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PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	OVERVIEW MAP	SHEET 4	E



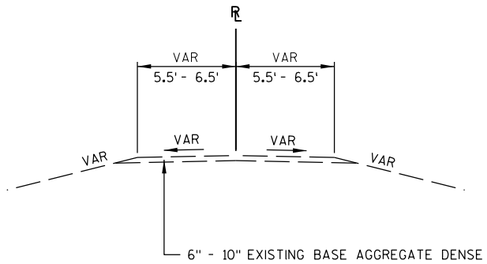
TYPICAL EXISTING SECTION

CTH GI
(STH 35 - NORTH & WEST LANDING RD INTERSECTION)



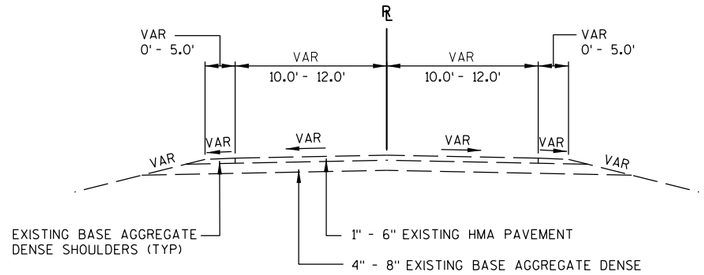
TYPICAL EXISTING SECTION

CAMPSITE PARKING PADS
LOCUST LN
RIVER RD
PINTAIL RD
MALLARD RD
CANADIAN HONKER LN
BLUE GOOSE LN
SNOW GOOSE LN
CANVASBACK RD
BLUE HERON RD
EGRET RD
KINGFISHER RD



TYPICAL EXISTING SECTION

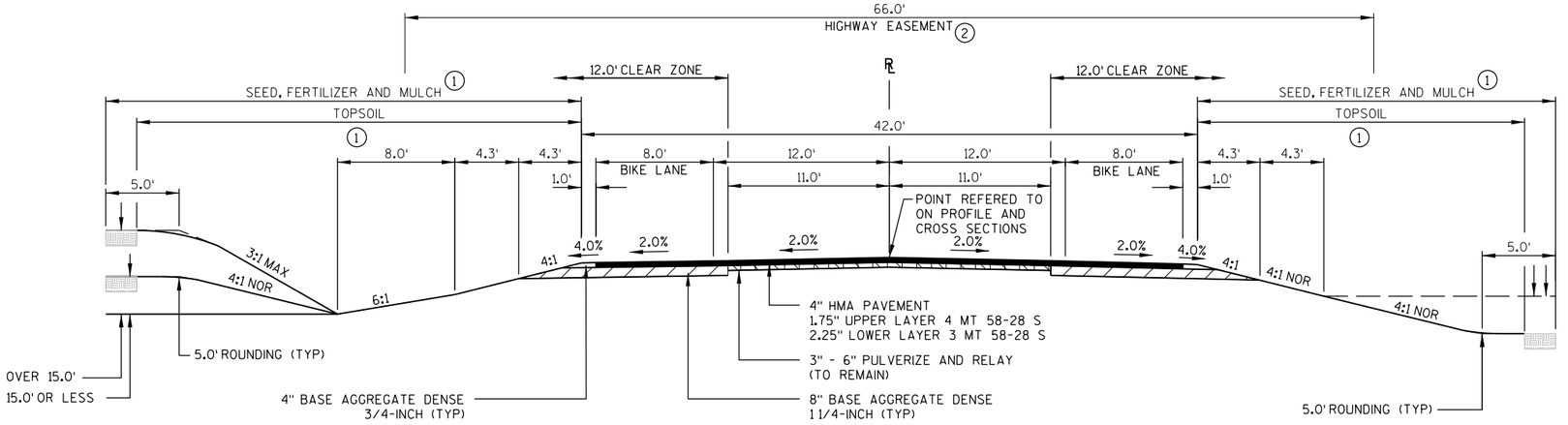
RIVER ROAD CAMPSITE
SHELTER 5 RD



TYPICAL EXISTING SECTION

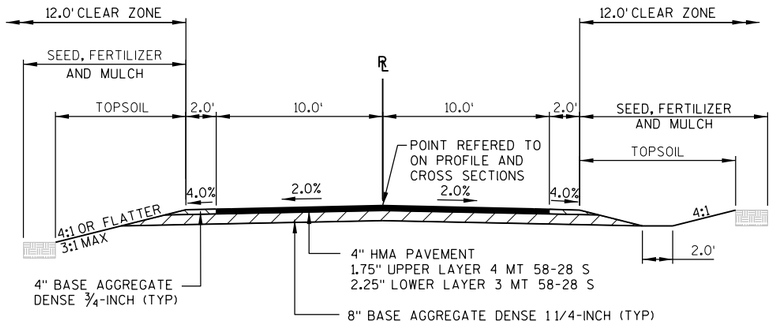
CTH GI
(NORTH & WEST LANDING RD INTERSECTION - COUNTY LINE)
HUNTERS POINT RD
WEST LANDING RD
NORTH LANDING RD

PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	TYPICAL SECTIONS	SHEET 5	E



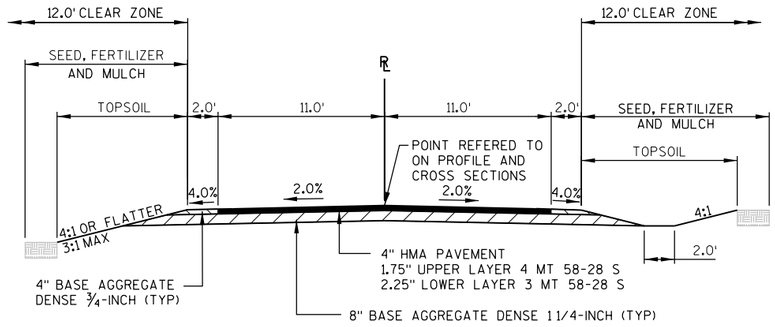
TYPICAL FINISHED RECONDITIONING SECTION (3)

CTH GI
STA 10+00.00 TO STA 101+57.95



TYPICAL FINISHED PAVEMENT REPLACEMENT SECTION

CTH GI
STA 101+57.95 TO STA 141+42.00
SHELTER 5 RD
STA 499+98.66 TO STA 524+18.28



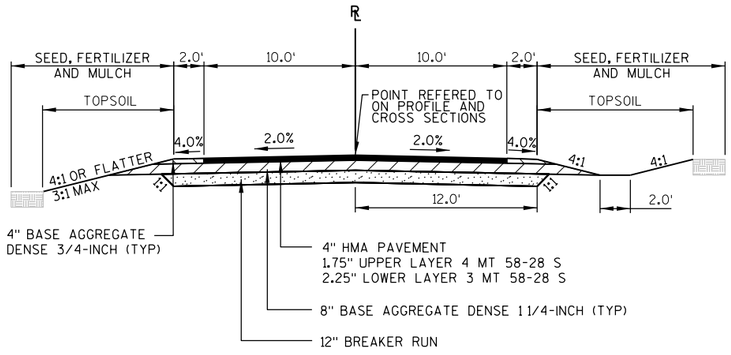
TYPICAL FINISHED PAVEMENT REPLACEMENT SECTION

NORTH LANDING RD
STA 200+00.00 TO STA 201+00.00
STA 207+00.00 TO STA 209+00.00
STA 215+70.00 TO STA 228+00.00
NORTH LANDING PARKING LOT
STA 237+00.00 TO STA 240+50.00

(1) REFER TO CONSTRUCTION DETAILS FOR TURF ESTABLISHMENT OR MODIFIED CRUSHED MATERIAL LOCATIONS

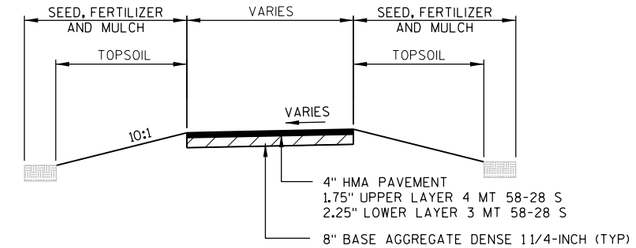
(2) BEGIN PROJECT TO STA 46+00.

(3) SEE CONSTRUCTION DETAILS FOR LOCATIONS AND DETAILS FOR BENCHING/MAINTENANCE ACCESS PATHS AND CAUSEWAYS.



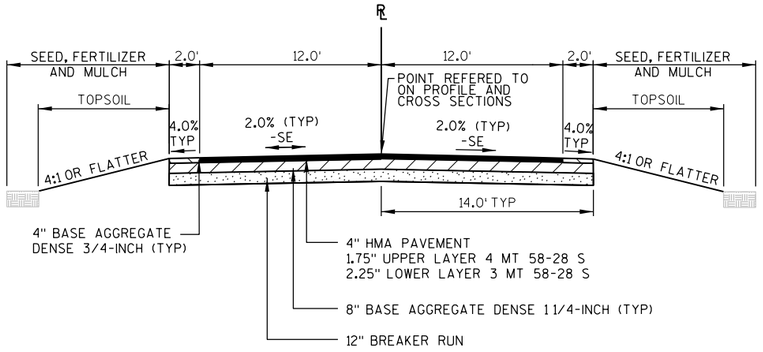
TYPICAL FINISHED RECONSTRUCT SECTION

HUNTERS POINT PARKING LOT
HUNTERS POINT RD
STA 141+42.00 TO STA 179+30.52
SHELTER 5 RD
STA 499+98.66 TO STA 524+18.28



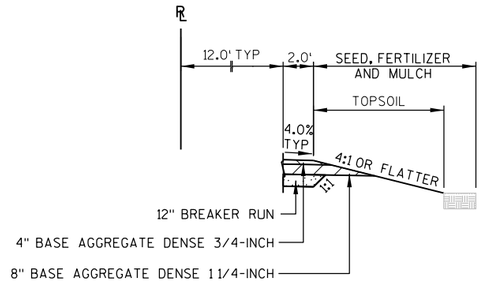
TYPICAL FINISHED PAVEMENT REPLACEMENT SECTION

PARK MAINTENANCE SHOP

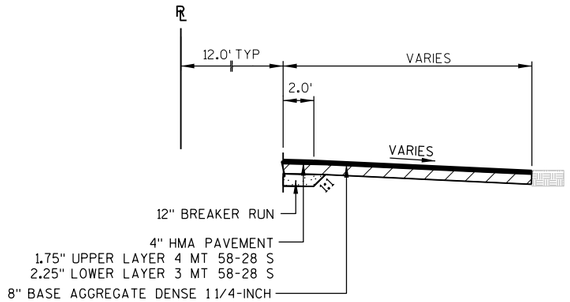


TYPICAL FINISHED RECONSTRUCT SECTION

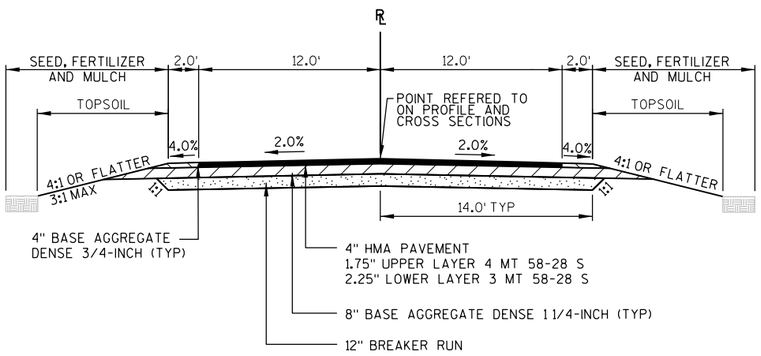
WEST LANDING PARKING LOT
WEST LANDING RD
MANAGERS OFFICE PARKING LOT
STA 300+00.00 TO STA 309+55.49



WEST LANDING RD
STA 300+50 TO STA 302+25 LT
STA 302+00 TO STA 305+00 RT

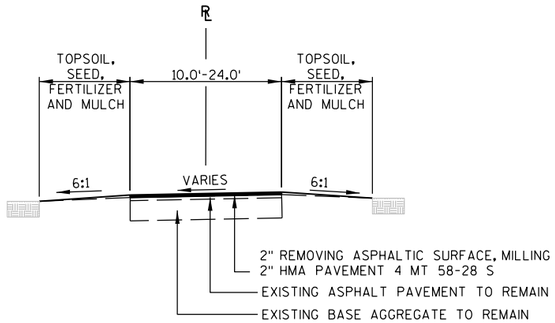


PARKING LOTS
WEST LANDING RD
STA 302+25 TO 305+00 LT
STA 306+90 TO STA 309+55.49 RT
STA 307+20 TO 309+55.49 LT



TYPICAL FINISHED RECONSTRUCT SECTION

CTH GI3
STA 400+68.00 TO 404+36.13



TYPICAL OVERLAY SECTION

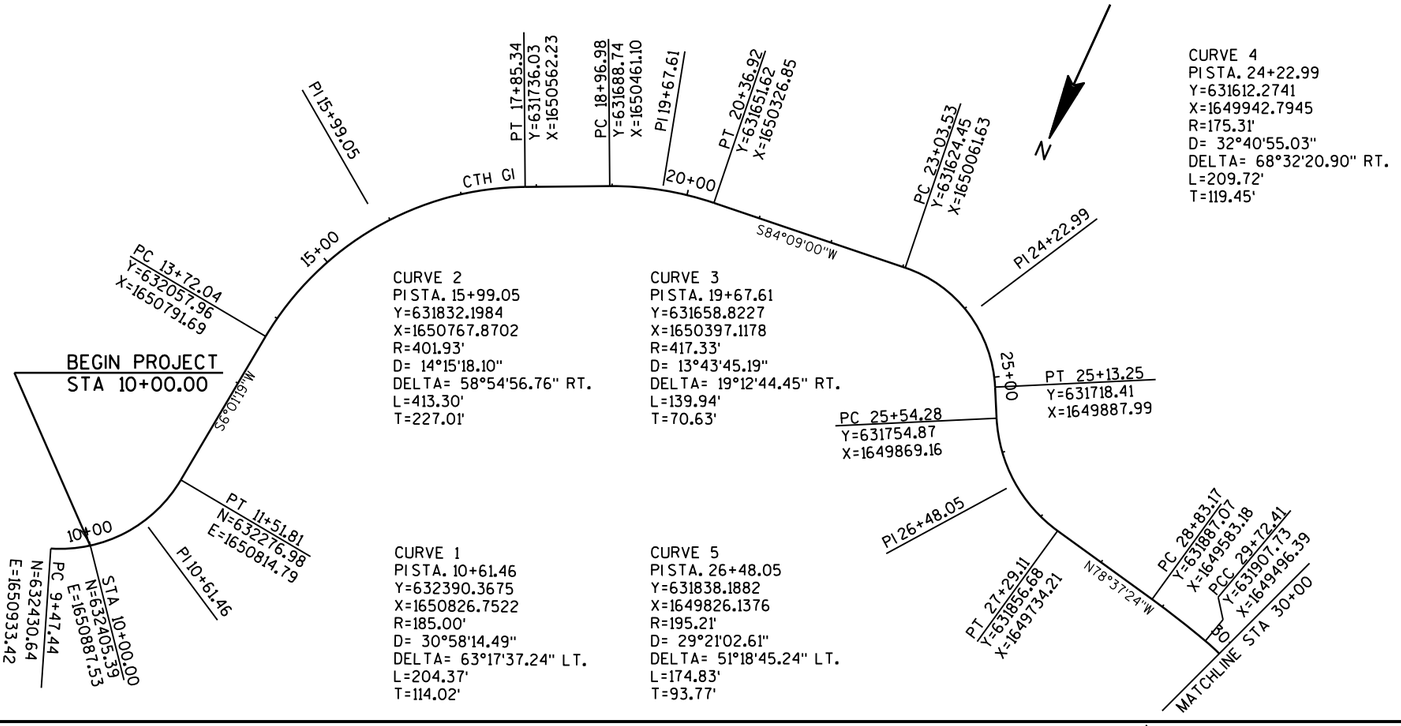
CAMPSITE PARKING PADS
LOCUST LN
RIVER RD
PINTAIL RD
MALLARD RD
CANADIAN HONKER LN
TEAL RD

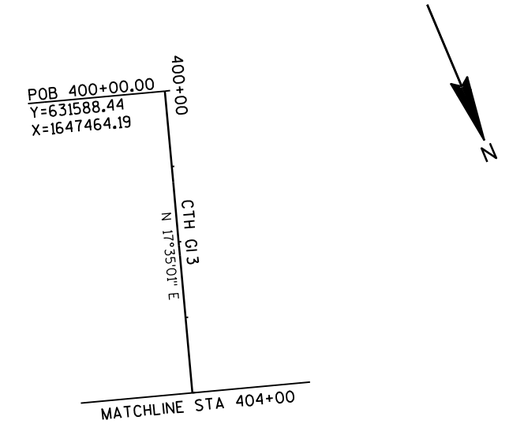
BLUE GOOSE LN
SNOW GOOSE LN
CANVASBACK RD
BLUE HERON RD
EGRET RD
KINGFISHER RD

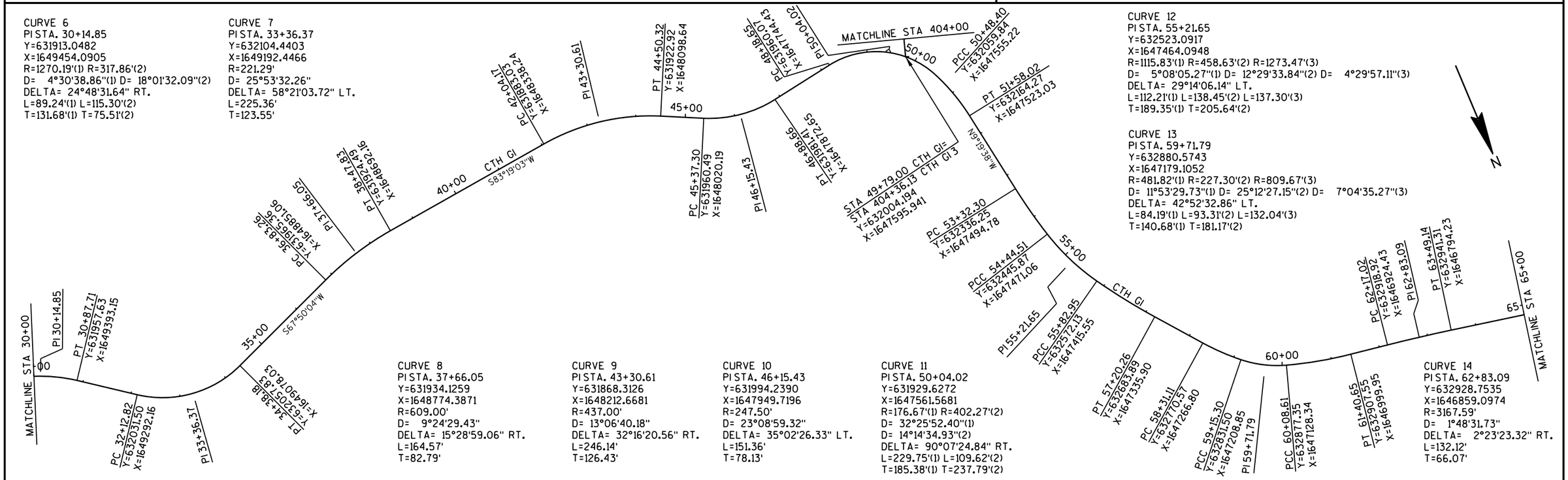
NORTH LANDING ROAD
STA 201+00 TO STA 207+00
STA 209+00 TO STA 215+70
STA 228+00 TO STA 237+00

STATION	LEFT SHOULDER	LEFT LANE	RIGHT LANE	RIGHT SHOULDER	POINT TYPE
10+00.00	-	-	-	-	Match Existing
10+95.00	-2.00%	2.00%	-2.00%	-2.00%	Reverse Crown
11+34.81	-2.00%	2.00%	-2.00%	-2.00%	Reverse Crown
12+02.81	-2.00%	-2.00%	-2.00%	-2.00%	Normal Crown
13+10.92	-2.00%	-2.00%	-2.00%	-2.00%	Normal Crown
13+40.92	-2.00%	0.00%	-2.00%	-2.00%	Zero Cross Slope
13+70.92	-2.00%	2.00%	-2.00%	-2.00%	Reverse Crown
14+00.00	-2.00%	3.11%	-3.11%	-3.11%	Full Super
17+85.00	-2.00%	3.11%	-3.11%	-3.11%	Full Super
19+60.94	-2.00%	3.11%	-3.11%	-3.11%	Full Super
19+77.62	-2.00%	2.00%	-2.00%	-2.00%	Reverse Crown
20+07.62	-2.00%	0.00%	-2.00%	-2.00%	Zero Cross Slope
20+50.00	-2.00%	-2.00%	-2.00%	-2.00%	Normal Crown
B-32-76					
22+90.00	-2.00%	-2.00%	-2.00%	-2.00%	Normal Crown
23+17.00	-2.00%	-2.00%	-0.30%	-2.00%	
23+85.00	-2.00%	4.00%	-4.00%	-4.00%	Full Super
24+93.41	-2.00%	4.00%	-4.00%	-4.00%	Full Super
25+73.78	-4.00%	-4.00%	4.00%	-2.00%	Full Super
27+09.61	-4.00%	-4.00%	4.00%	-2.00%	Full Super
27+39.10	-2.00%	-2.00%	2.00%	-2.00%	Reverse Crown
27+68.60	-2.00%	-2.00%	0.00%	-2.00%	Zero Cross Slope
27+98.10	-2.00%	-2.00%	-2.00%	-2.00%	Normal Crown
28+31.79	-2.00%	-2.00%	-2.00%	-2.00%	Normal Crown
28+61.79	-2.00%	0.00%	-2.00%	-2.00%	Zero Cross Slope
28+91.79	-2.00%	2.00%	-2.00%	-2.00%	Reverse Crown
29+12.47	-2.00%	3.38%	-3.38%	-3.38%	Full Super
29+63.07	-2.00%	3.38%	-3.38%	-3.38%	Full Super
29+81.74	-2.00%	3.38%	-3.38%	-3.38%	Full Super
30+70.80	-2.00%	3.38%	-3.38%	-3.38%	Full Super
32+31.76	-3.79%	-3.79%	3.79%	-2.00%	Full Super
34+19.24	-3.79%	-3.79%	3.79%	-2.00%	Full Super
34+46.06	-2.00%	-2.00%	2.00%	-2.00%	Reverse Crown
34+76.06	-2.00%	-2.00%	0.00%	-2.00%	Zero Cross Slope
35+06.06	-2.00%	-2.00%	-2.00%	-2.00%	Normal Crown
36+26.33	-2.00%	-2.00%	-2.00%	-2.00%	Normal Crown
36+56.33	-2.00%	0.00%	-2.00%	-2.00%	Zero Cross Slope
36+86.33	-2.00%	2.00%	-2.00%	-2.00%	Reverse Crown
36+96.73	-2.00%	2.69%	-2.69%	-2.69%	Full Super
38+34.36	-2.00%	2.69%	-2.69%	-2.69%	Full Super
38+44.77	-2.00%	2.00%	-2.00%	-2.00%	Reverse Crown
38+74.77	-2.00%	0.00%	-2.00%	-2.00%	Zero Cross Slope
39+04.77	-2.00%	-2.00%	-2.00%	-2.00%	Normal Crown
41+43.97	-2.00%	-2.00%	-2.00%	-2.00%	Normal Crown
41+73.97	-2.00%	0.00%	-2.00%	-2.00%	Zero Cross Slope
42+03.97	-2.00%	2.00%	-2.00%	-2.00%	Reverse Crown
42+19.28	-2.00%	3.02%	-3.02%	-3.02%	Full Super
44+35.21	-2.00%	3.02%	-3.02%	-3.02%	Full Super
45+55.65	-3.67%	-3.67%	3.67%	-2.00%	Full Super
46+70.31	-3.67%	-3.67%	3.67%	-2.00%	Full Super
48+38.47	-2.00%	3.11%	-3.11%	-3.11%	Full Super
50+42.00	-2.00%	3.11%	-3.11%	-3.11%	Full Super
50+54.79	-2.00%	3.11%	-3.11%	-3.11%	Full Super
51+42.46	-2.00%	3.11%	-3.11%	-3.11%	Full Super
51+59.13	-2.00%	2.00%	-2.00%	-2.00%	Reverse Crown
51+89.13	-2.00%	0.00%	-2.00%	-2.00%	Zero Cross Slope
52+19.13	-2.00%	-2.00%	-2.00%	-2.00%	Normal Crown

STATION	LEFT SHOULDER	LEFT LANE	RIGHT LANE	RIGHT SHOULDER	POINT TYPE
55+89.21	-2.25%	-2.25%	2.25%	-2.00%	Full Super
57+09.58	-2.25%	-2.25%	2.25%	-2.00%	Full Super
57+13.23	-2.00%	-2.00%	2.00%	-2.00%	Reverse Crown
57+42.42	-2.00%	-2.00%	0.00%	-2.00%	Zero Cross Slope
57+71.60	-2.00%	-2.00%	-2.00%	-2.00%	Normal Crown
57+71.93	-2.00%	-2.00%	-2.00%	-2.00%	Normal Crown
58+04.72	-2.00%	-2.00%	0.00%	-2.00%	Zero Cross Slope
58+37.51	-2.00%	-2.00%	2.00%	-2.00%	Reverse Crown
58+45.71	-2.50%	-2.50%	2.50%	-2.00%	Full Super
59+08.98	-2.50%	-2.50%	2.50%	-2.00%	Full Super
59+21.62	-2.50%	-2.50%	2.50%	-2.00%	Full Super
59+98.88	-2.50%	-2.50%	2.50%	-2.00%	Full Super
60+18.34	-2.50%	-2.50%	2.50%	-2.00%	Full Super
61+28.33	-2.50%	-2.50%	2.50%	-2.00%	Full Super
61+36.53	-2.00%	-2.00%	2.00%	-2.00%	Reverse Crown
62+05.00	-2.00%	-2.00%	-2.00%	-2.00%	Normal Crown
73+42.40	-2.00%	-2.00%	-2.00%	-2.00%	Normal Crown
75+18.00	-2.00%	-2.00%	-2.00%	-2.00%	Normal Crown
75+86.00	-2.00%	-2.00%	2.00%	-2.00%	Reverse Crown
77+57.00	-2.00%	-2.00%	2.00%	-2.00%	Reverse Crown
77+90.00	-2.00%	-2.00%	-2.00%	-2.00%	Zero Cross Slope
78+25.00	-2.00%	-2.00%	-2.00%	-2.00%	Normal Crown
79+28.93	-2.00%	-2.00%	-2.00%	-2.00%	Normal Crown
79+58.93	-2.00%	0.00%	-2.00%	-2.00%	Zero Cross Slope
79+88.93	-2.00%	2.00%	-2.00%	-2.00%	Reverse Crown
80+10.67	-2.00%	3.45%	-3.45%	-3.45%	Full Super
81+94.31	-2.00%	3.45%	-3.45%	-3.45%	Full Super
82+16.06	-2.00%	2.00%	-2.00%	-2.00%	Reverse Crown
82+46.06	-2.00%	0.00%	-2.00%	-2.00%	Zero Cross Slope
82+76.06	-2.00%	-2.00%	-2.00%	-2.00%	Normal Crown
83+12.60	-2.00%	-2.00%	-2.00%	-2.00%	Normal Crown
83+42.60	-2.00%	-2.00%	0.00%	-2.00%	Zero Cross Slope
83+72.60	-2.00%	-2.00%	2.00%	-2.00%	Reverse Crown
86+69.62	-2.00%	-2.00%	2.00%	-2.00%	Reverse Crown
86+99.62	-2.00%	-2.00%	0.00%	-2.00%	Zero Cross Slope
87+29.62	-2.00%	-2.00%	-2.00%	-2.00%	Normal Crown
88+33.87	-2.00%	-2.00%	-2.00%	-2.00%	Normal Crown
88+63.87	-2.00%	0.00%	-2.00%	-2.00%	Zero Cross Slope
88+93.87	-2.00%	2.00%	-2.00%	-2.00%	Reverse Crown
89+18.97	-2.00%	3.67%	-3.67%	-3.67%	Full Super
90+81.38	-2.00%	3.67%	-3.67%	-3.67%	Full Super
91+06.48	-2.00%	2.00%	-2.00%	-2.00%	Reverse Crown
91+36.48	-2.00%	0.00%	-2.00%	-2.00%	Zero Cross Slope
91+66.48	-2.00%	-2.00%	-2.00%	-2.00%	Normal Crown
97+53.90	-2.00%	-2.00%	-2.00%	-2.00%	Normal Crown
98+13.90	-2.00%	-2.00%	0.00%	-2.00%	Zero Cross Slope
98+39.70	-3.72%	-3.72%	3.72%	-2.00%	Full Super
99+89.36	-3.72%	-3.72%	3.72%	-2.00%	Full Super
100+04.98	-2.68%	-2.68%	2.68%	-2.00%	Full Super
101+08.68	-2.68%	-2.68%	2.68%	-2.00%	Full Super
101+18.81	-2.00%	-2.00%	2.00%	-2.00%	Reverse Crown
101+48.81	-2.00%	-2.00%	0.00%	-2.00%	Zero Cross Slope
101+78.81	-2.00%	-2.00%	-2.00%	-2.00%	Normal Crown

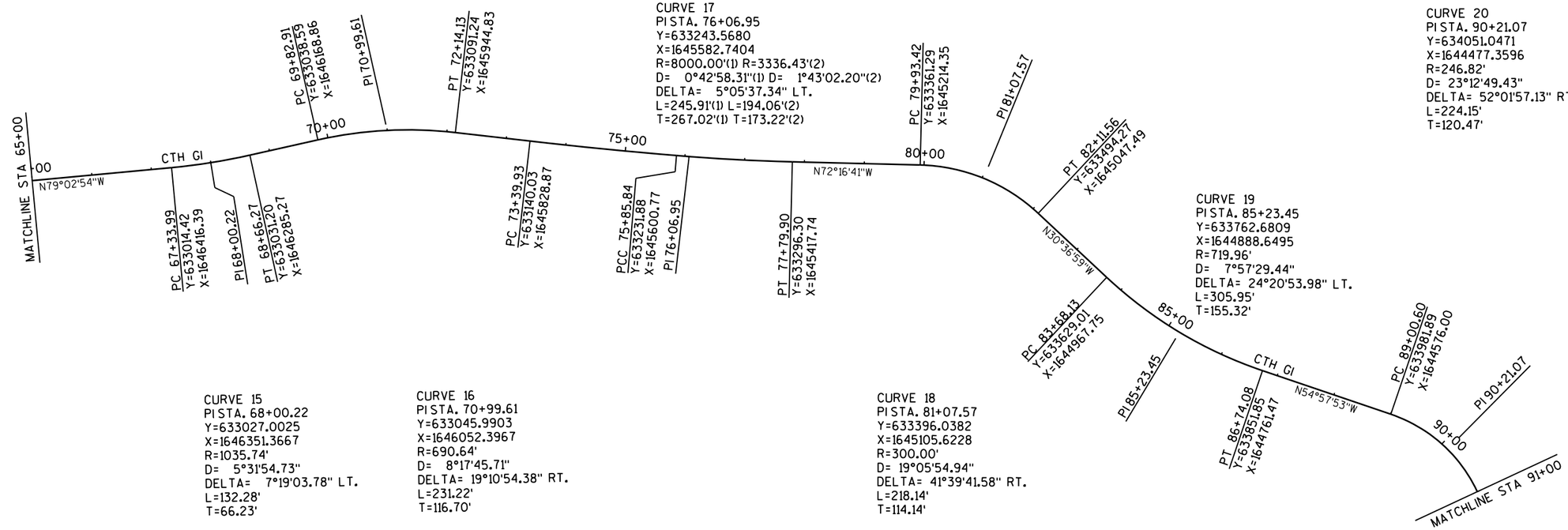


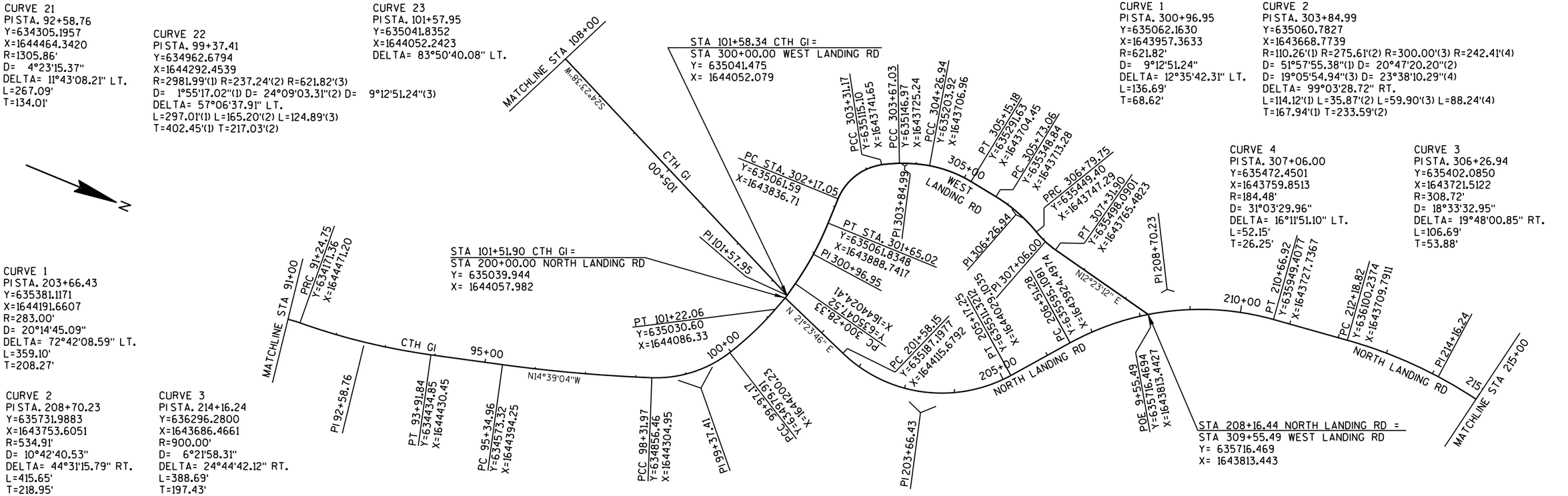




PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	ALIGNMENT DIAGRAM	SHEET 9	E

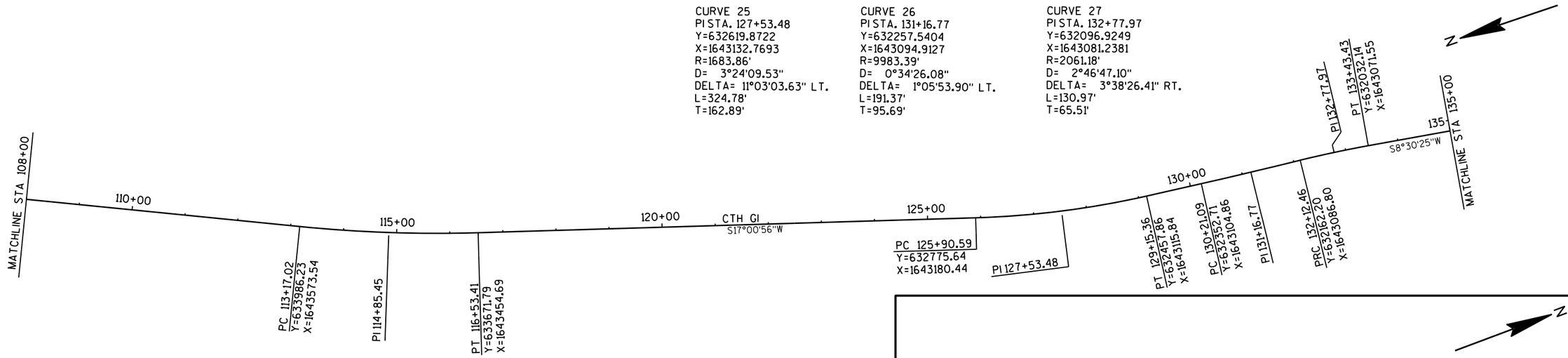
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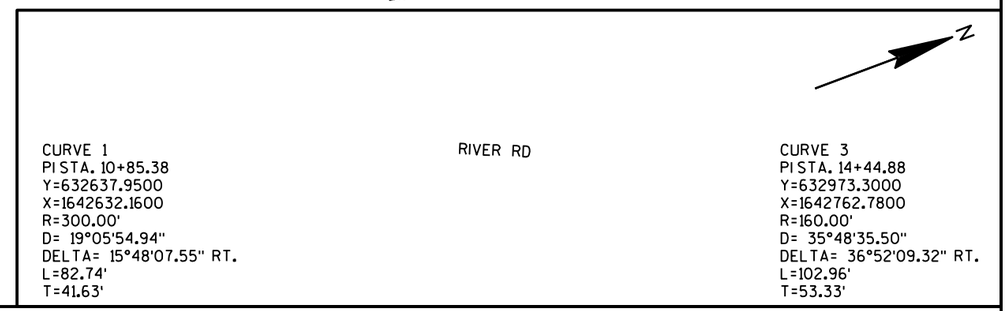


PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	ALIGNMENT DIAGRAM	SHEET 10	E

2



CURVE 24
PI STA. 114+85.45
Y=633832.8416
X=1643503.9738
R=2612.24'
D= 2°11'36.09"
DELTA= 7°22'41.64" LT.
L=336.39'
T=168.43'



CURVE 1
PI STA. 10+85.38
Y=632637.9500
X=1642632.1600
R=300.00'
D= 19°05'54.94"
DELTA= 15°48'07.55" RT.
L=82.74'
T=41.63'

CURVE 3
PI STA. 14+44.88
Y=632973.3000
X=1642762.7800
R=160.00'
D= 35°48'35.50"
DELTA= 36°52'09.32" RT.
L=102.96'
T=53.33'

CURVE 28
PI STA. 136+58.93
Y=631720.1119
X=1643024.8759
R=5687.04'
D= 1°00'26.93"
DELTA= 2°18'13.80" LT.
L=228.67'
T=114.35'

CURVE 29
PI STA. 139+56.07
Y=631424.6804
X=1642992.7652
R=5941.60'
D= 0°57'51.54"
DELTA= 1°37'28.54" LT.
L=168.47'
T=84.24'

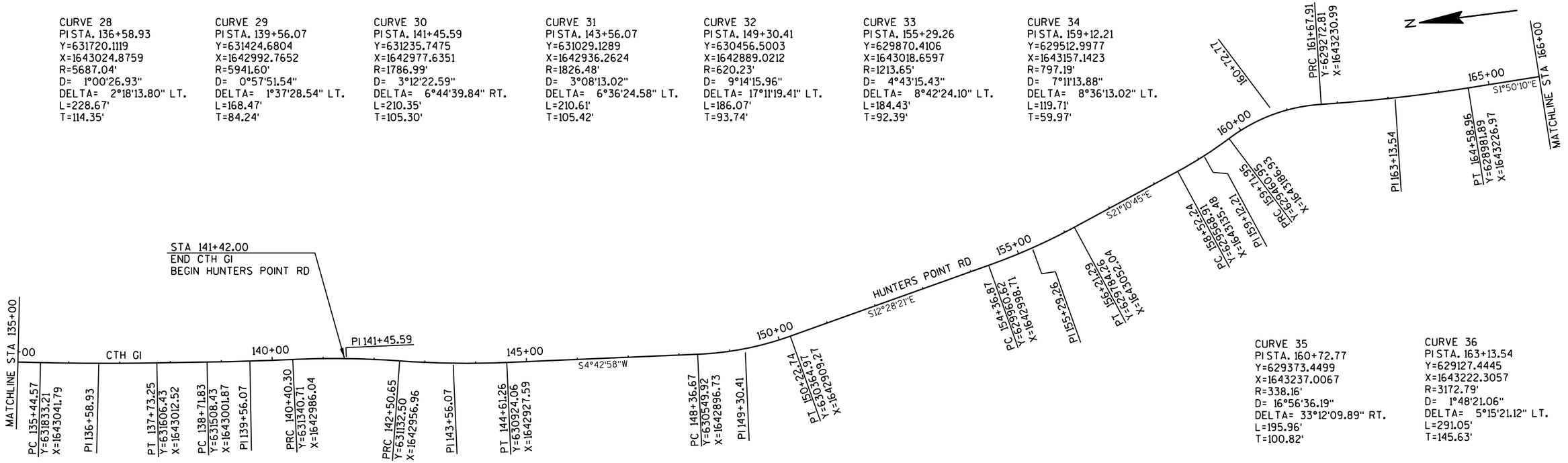
CURVE 30
PI STA. 141+45.59
Y=631235.7475
X=1642977.6351
R=1786.99'
D= 3°12'22.59"
DELTA= 6°44'39.84" RT.
L=210.35'
T=105.30'

CURVE 31
PI STA. 143+56.07
Y=631029.1289
X=1642936.2624
R=1826.48'
D= 3°08'13.02"
DELTA= 6°36'24.58" LT.
L=210.61'
T=105.42'

CURVE 32
PI STA. 149+30.41
Y=630456.5003
X=1642889.0212
R=620.23'
D= 9°14'15.96"
DELTA= 17°11'19.41" LT.
L=186.07'
T=93.74'

CURVE 33
PI STA. 155+29.26
Y=629870.4106
X=1643018.6597
R=1213.65'
D= 4°43'15.43"
DELTA= 8°42'24.10" LT.
L=184.43'
T=92.39'

CURVE 34
PI STA. 159+12.21
Y=629512.9977
X=1643157.1423
R=797.19'
D= 7°11'13.88"
DELTA= 8°36'13.02" LT.
L=119.71'
T=59.97'

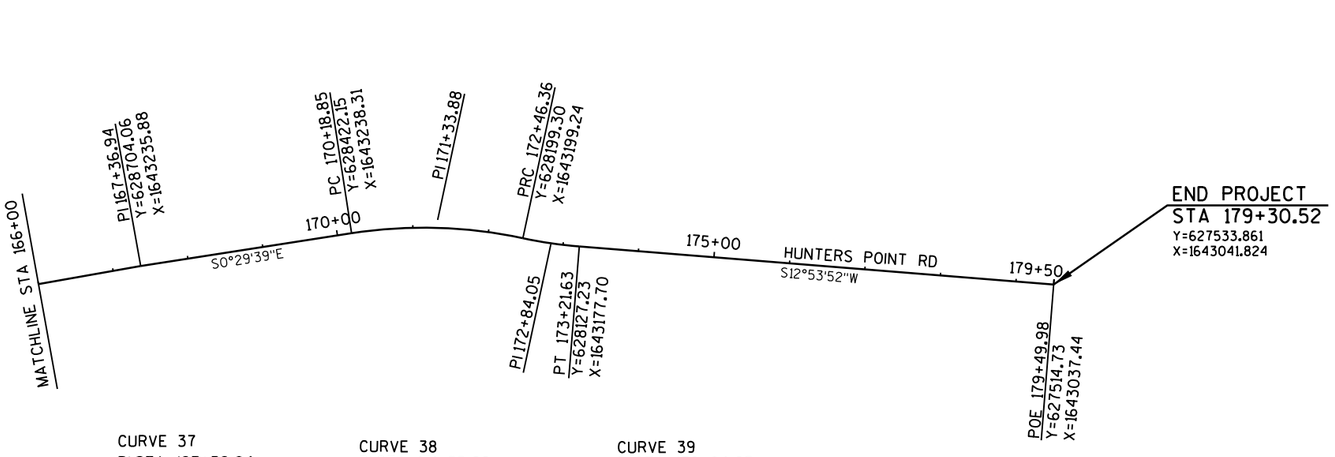


CURVE 35
PI STA. 160+72.77
Y=629373.4499
X=1643237.0067
R=338.16'
D= 16°56'36.19"
DELTA= 33°12'09.89" RT.
L=195.96'
T=100.82'

CURVE 36
PI STA. 163+13.54
Y=629127.4445
X=1643222.3057
R=3172.79'
D= 1°48'21.06"
DELTA= 5°15'21.12" LT.
L=291.05'
T=145.63'

PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	ALIGNMENT DIAGRAM	SHEET 11	E

2



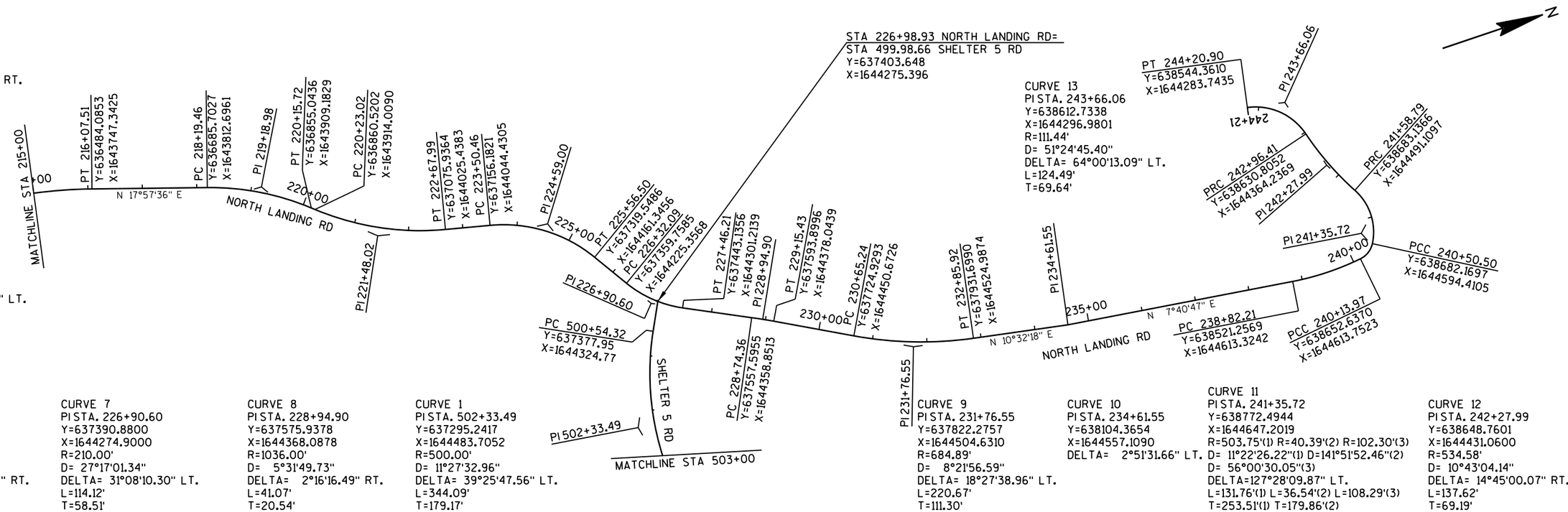
CURVE 37
PI STA. 167+36.94
Y=628704.0550
X=1643235.8775
DELTA= 1°20'30.74" RT.

CURVE 38
PI STA. 171+33.88
Y=628307.1251
X=1643239.3008
R=624.41'
D= 9°10'33.39"
DELTA= 20°52'35.15" RT.
L=227.51'
T=115.03'

CURVE 39
PI STA. 172+84.05
Y=628163.9680
X=1643186.1114
R=576.18'
D= 9°56'38.60"
DELTA= 7°29'04.53" LT.
L=75.27'
T=37.69'

CURVE 4
PI STA. 219+18.98
Y=636780.3759
X=1643843.3840
R=480.00'
D= 11°56'11.83"
DELTA= 23°25'38.43" RT.
L=196.26'
T=99.52'

CURVE 5
PI STA. 221+48.02
Y=636954.3000
X=1643996.6500
R=500.00'
D= 11°27'32.96"
DELTA= 28°04'18.41" LT.
L=244.97'
T=125.00'



CURVE 13
PI STA. 243+66.06
Y=638612.7338
X=1644296.9801
R=111.44'
D= 51°24'45.40"
DELTA= 64°00'13.09" LT.
L=124.49'
T=69.64'

CURVE 6
PI STA. 224+59.00
Y=637261.8100
X=1644069.4300
R=265.00'
D= 21°37'15.78"
DELTA= 44°32'55.44" RT.
L=206.04'
T=108.55'

CURVE 7
PI STA. 226+90.60
Y=637390.8800
X=1644274.9000
R=210.00'
D= 27°17'01.34"
DELTA= 31°08'10.30" LT.
L=114.12'
T=58.51'

CURVE 8
PI STA. 228+94.90
Y=637575.9378
X=1644368.0878
R=1036.00'
D= 5°31'49.73"
DELTA= 2°16'16.49" RT.
L=41.07'
T=20.54'

CURVE 1
PI STA. 502+33.49
Y=637295.2417
X=1644483.7052
R=500.00'
D= 11°27'32.96"
DELTA= 39°25'47.56" LT.
L=344.09'
T=179.17'

CURVE 9
PI STA. 231+76.55
Y=637822.2757
X=1644504.6310
R=684.89'
D= 8°21'56.59"
DELTA= 18°27'38.96" LT.
L=220.67'
T=111.30'

CURVE 10
PI STA. 234+61.55
Y=638104.3654
X=1644557.1090
DELTA= 2°51'31.66" LT.

CURVE 11
PI STA. 241+35.72
Y=638772.4944
X=1644647.2019
R=503.75'(1) R=40.39'(2) R=102.30'(3)
D= 11°22'26.22"(1) D=141°51'52.46"(2)
D= 56°00'30.05"(3)
DELTA=127°28'09.87" LT.
L=131.76'(1) L=36.54'(2) L=108.29'(3)
T=253.51'(1) T=179.86'(2)

CURVE 12
PI STA. 242+27.99
Y=638648.7601
X=1644431.0600
R=534.58'
D= 10°43'04.14"
DELTA= 14°45'00.07" RT.
L=137.62'
T=69.19'

PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	ALIGNMENT DIAGRAM	SHEET 12	E

2

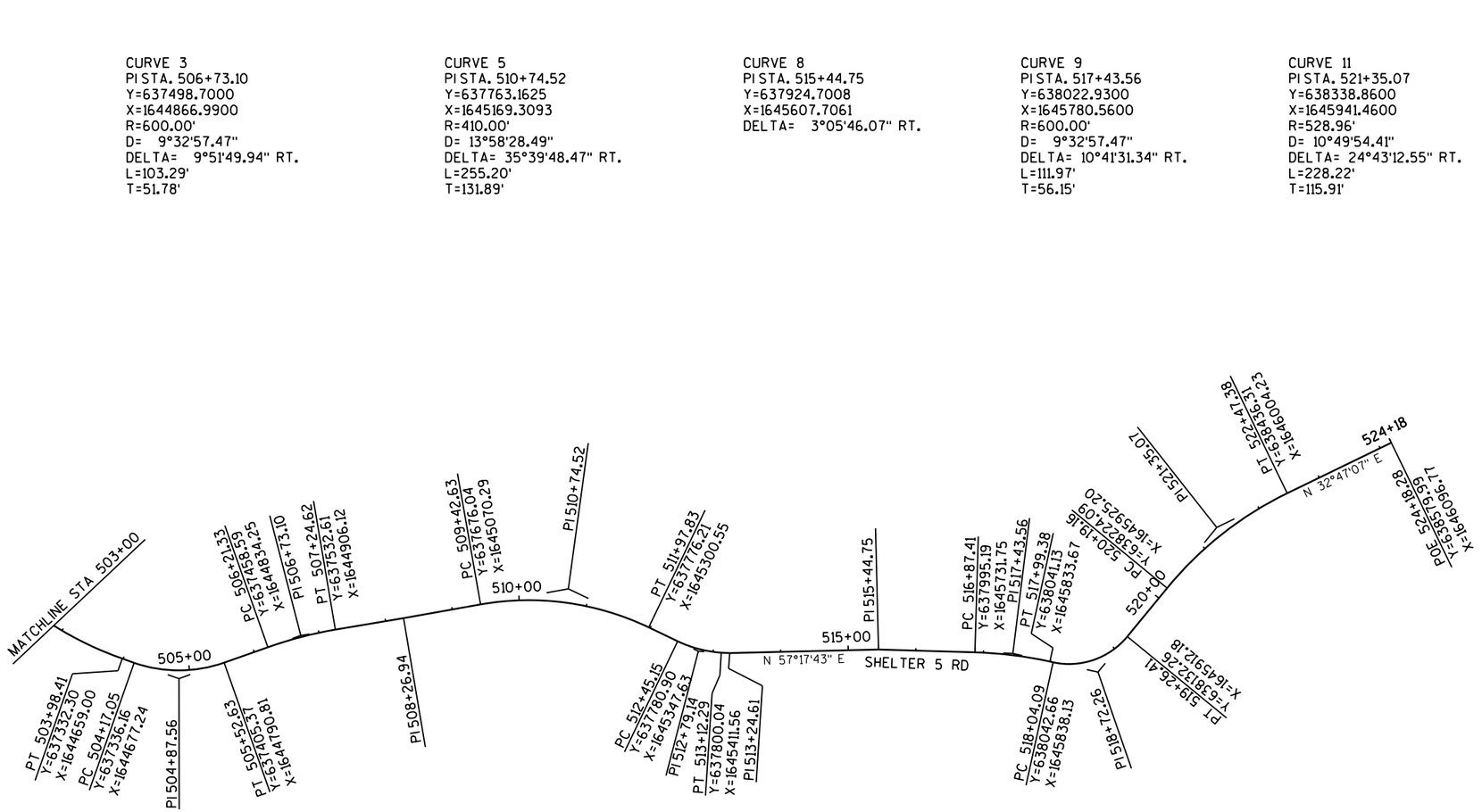
CURVE 3
PI STA. 506+73.10
Y=637498.7000
X=1644866.9900
R=600.00'
D= 9°32'57.47"
DELTA= 9°51'49.94" RT.
L=103.29'
T=51.78'

CURVE 5
PI STA. 510+74.52
Y=637763.1625
X=1645169.3093
R=410.00'
D= 13°58'28.49"
DELTA= 35°39'48.47" RT.
L=255.20'
T=131.89'

CURVE 8
PI STA. 515+44.75
Y=637924.7008
X=1645607.7061
DELTA= 3°05'46.07" RT.

CURVE 9
PI STA. 517+43.56
Y=638022.9300
X=1645780.5600
R=600.00'
D= 9°32'57.47"
DELTA= 10°41'31.34" RT.
L=111.97'
T=56.15'

CURVE 11
PI STA. 521+35.07
Y=638338.8600
X=1645941.4600
R=528.96'
D= 10°49'54.41"
DELTA= 24°43'12.55" RT.
L=228.22'
T=115.91'



CURVE 2
PI STA. 504+87.56
Y=637350.7404
X=1644746.2267
R=200.00'
D= 28°38'52.40"
DELTA= 38°50'31.39" LT.
L=135.58'
T=70.51'

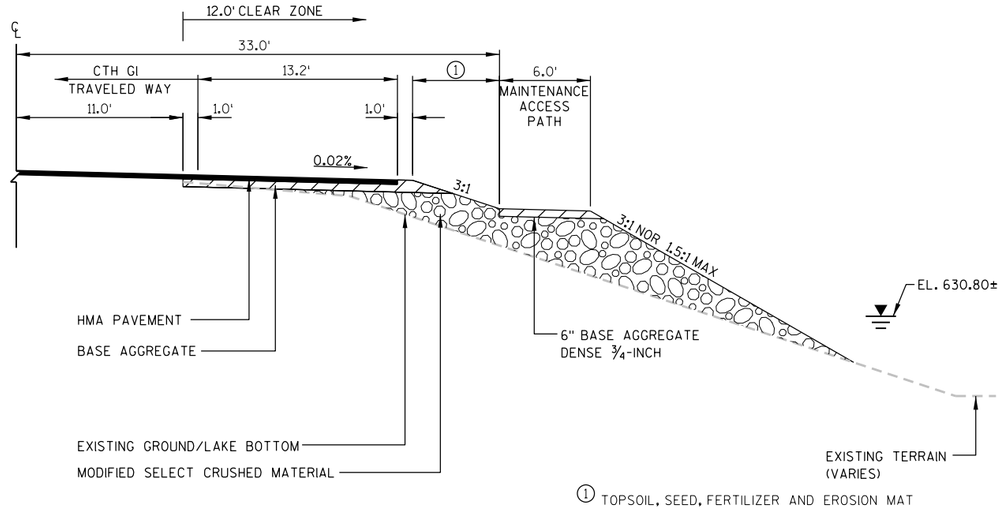
CURVE 4
PI STA. 508+26.94
Y=637599.6240
X=1644983.4377
DELTA= 0°25'39.75" LT.

CURVE 6
PI STA. 512+79.14
Y=637784.2603
X=1645381.4561
R=175.00'
D= 32°44'25.60"
DELTA= 21°59'00.03" LT.
L=67.14'
T=33.99'

CURVE 7
PI STA. 513+24.61
Y=637805.7570
X=1645422.4660
DELTA= 5°02'31.46" LT.

CURVE 10
PI STA. 518+72.26
Y=638064.7600
X=1645902.6200
R=111.21'
D= 51°31'13.25"
DELTA= 63°01'05.78" LT.
L=122.32'
T=68.17'

PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	ALIGNMENT DIAGRAM	SHEET 13	E

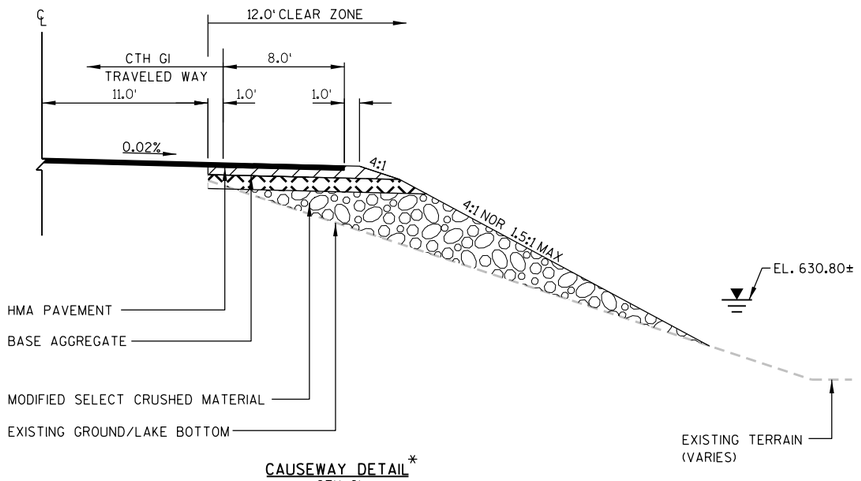


① TOPSOIL, SEED, FERTILIZER AND EROSION MAT

BENCHING / MAINTENANCE ACCESS PATH DETAIL

CTH GI

STA 28+80.05 TO STA 34+54.93 LT
STA 38+49.43 TO STA 42+04.17 LT
STA 42+97.21 TO STA 47+53.14 LT
STA 75+97.66 TO STA 79+53.14 LT
STA 75+97.66 TO STA 86+50.31 RT
STA 80+58.47 TO STA 87+53.14 LT

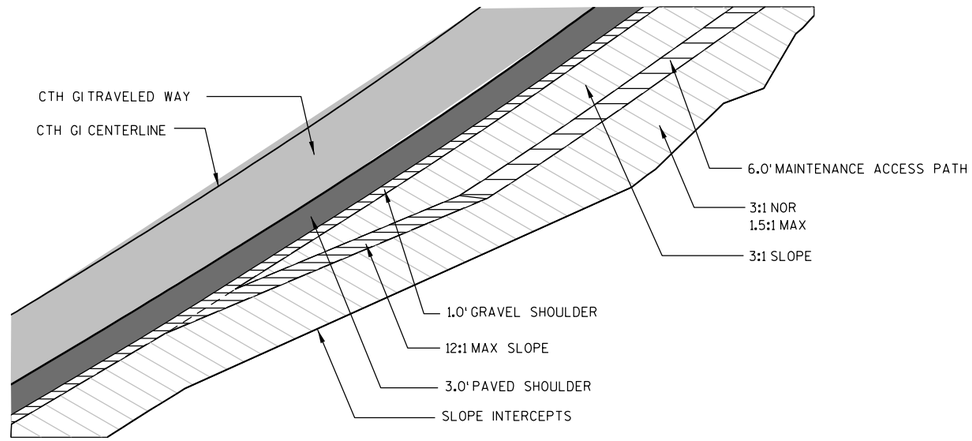


CAUSEWAY DETAIL*

CTH GI

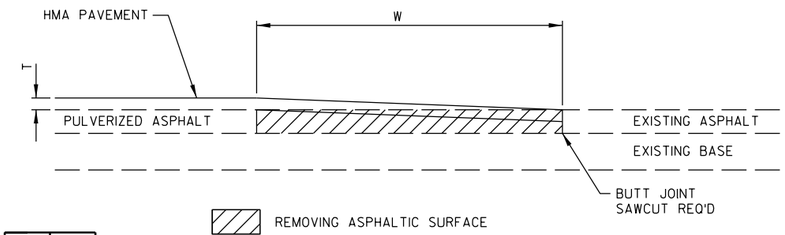
STA 10+00.00 TO STA 18+59.54 RT
STA 10+00.00 TO STA 17+23.20 LT
STA 19+27.26 TO STA 20+60.76 LT
STA 22+90.00 TO STA 23+39.78 LT & RT
STA 25+73.28 TO STA 28+80.05 LT
STA 25+73.28 TO STA 57+05.13 RT
STA 34+54.93 TO STA 38+49.43 LT
STA 42+04.17 TO STA 42+97.21 LT
STA 47+53.14 TO STA 49+88.71 LT
STA 54+53.22 TO STA 57+49.48 LT
STA 61+02.61 TO STA 75+97.66 RT
STA 61+19.22 TO STA 62+36.49 LT
STA 65+57.31 TO STA 75+97.66 LT
STA 79+53.14 TO STA 80+58.47 LT
STA 86+50.31 TO STA 96+03.97 RT
STA 87+53.14 TO STA 95+99.80 LT

*LOCATIONS AS SHOWN ARE APPROXIMATE.



ROADWAY SHOULDER / MAINTENANCE ACCESS PATH TYPICAL CONNECTION

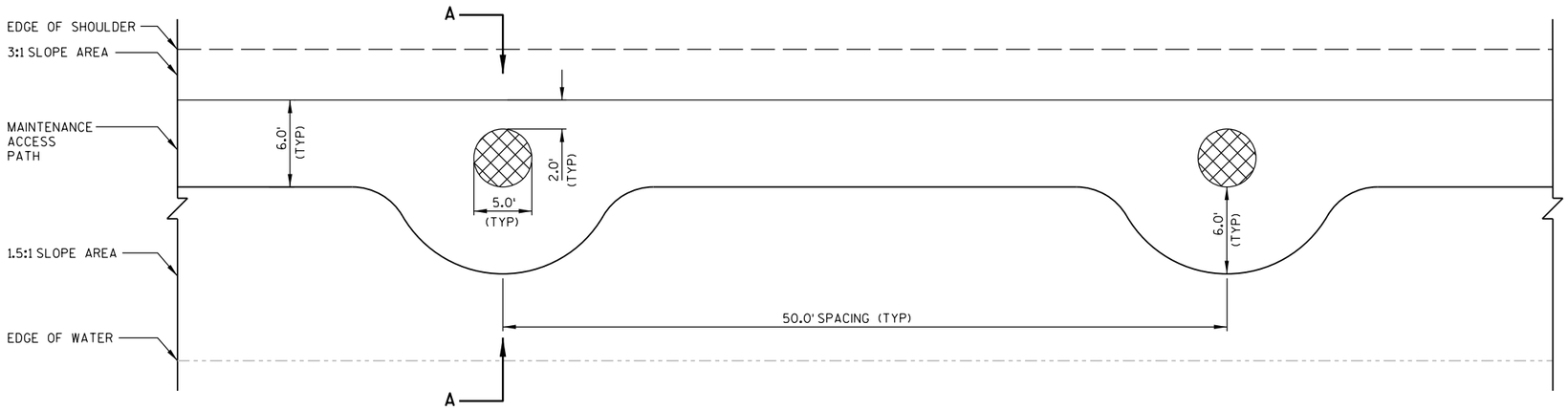
(ISOMETRIC)

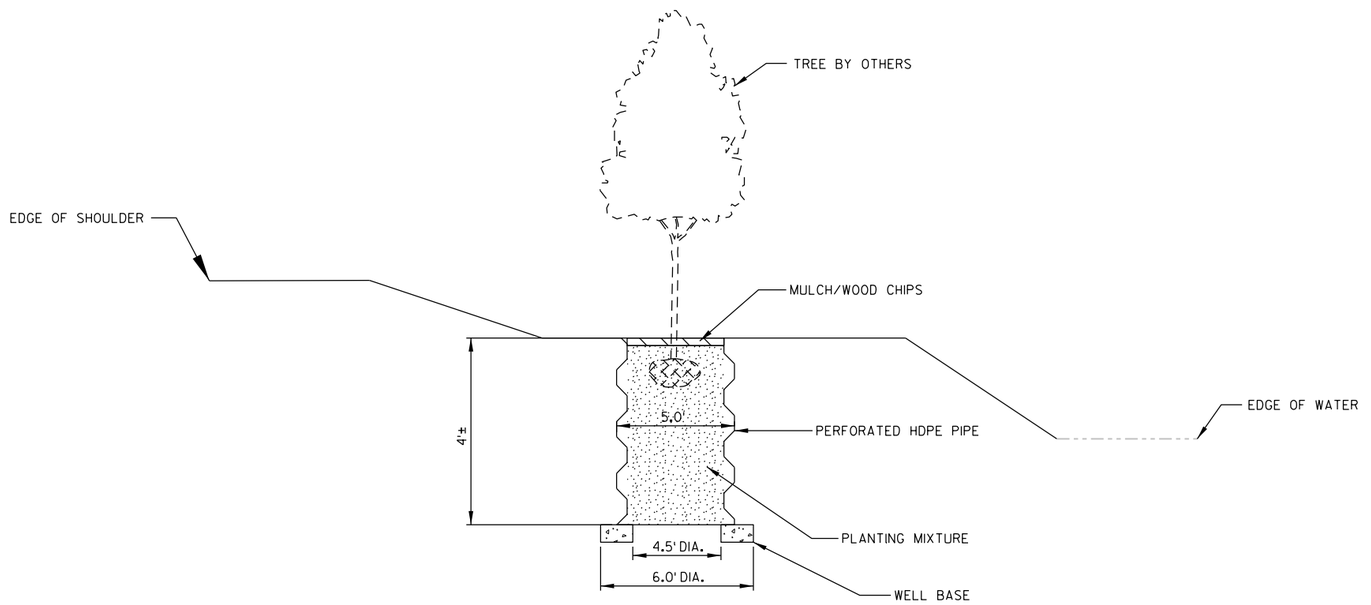


T	W
2"	50'
4"	100'

BUTT JOINT

2





A-A

TREE WELLS

STA 28+00 TO STA 34+00 LT
STA 39+00 TO STA 41+50 LT
STA 43+50 TO STA 47+00 LT
STA 77+00 TO STA 79+00 LT
STA 77+00 TO STA 86+00 RT
STA 81+00 TO STA 87+00 LT

2

2

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	500+36.87 BRIDGE SIDE ROAD 18+56.82 CTH GI	60.4' RT 70.0' RT	50.0'	Y= 631769.162 X= 1650467.821
CC2	500+42.49 BRIDGE SIDE ROAD 19+03.36 CTH GI	4.8' LT 23.5' RT	15.5'	Y= 631707.521 X= 1650445.670
CC3	500+60.34 BRIDGE SIDE ROAD 19+19.14 CTH GI	11.0' LT 26.0' RT	5.0'	Y= 631703.997 X= 1650431.040

DATA POINT TABLE		
POINT	STATION	OFFEST
A	18+56.82 CTH GI	20.0' RT
B	19+19.14 CTH GI	21.0' RT
C	500+41.16 BRIDGE SIDE ROAD	10.6' RT
D	500+48.47 BRIDGE SIDE ROAD	9.5' RT
E	500+60.34 BRIDGE SIDE ROAD	6.0' LT

N

SLOPE INTERCEPTS (TYP)

CTH GI

POB
STA. 500+00.00
Y=631701.3146
X=1650487.9839

500+00

111.64
S 64°56'16" W

19+00

20+00

21+00

55.54
N 75°09'10" W

CC2

CC3

A

B

C

D

E

CC1

PI
STA. 500+55.54
Y=631715.5473
X=1650434.2944

501+00

119.48
S 82°10'43" W

502+00

PI
STA. 501+75.02
Y=631699.2880
X=1650315.9251

PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	CONSTRUCTION DETAIL - CANOE PORTAGE	SHEET 16	E

2

2

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC2-1	504+81.44 BRIDGE SIDE ROAD 23+35.81 CTH GI	80.9' RT 128.3' RT	75.0'	Y= 631751.990 X= 1650039.906
CC2-2	505+35.70 BRIDGE SIDE ROAD 24+43.79 CTH GI	20.6' LT 34.5' RT	14.5'	Y= 631690.947 X= 1649953.254
CC2-3	25+21.57 CTH GI	8.2' LT	75.0'	Y= 631722.041 X= 1649876.880
CC2-4	25+62.96 CTH GI	22.4' LT	75.0'	Y= 631751.337 X= 1649845.572
CC2-5	26+45.94 CTH GI	95.0' RT	75.0'	Y= 631900.726 X= 1649865.416

DATA POINT TABLE		
POINT	STATION	OFFEST
A	504+81.27 BRIDGE SIDE ROAD	6.0' RT
B	505+28.82 BRIDGE SIDE ROAD	9.6' RT
C	505+35.68 BRIDGE SIDE ROAD	6.0' LT
D	24+44.69 CTH GI	20.0' RT
E	25+32.37 CTH GI	66.0' RT
F	25+46.72 CTH GI	62.5' RT
G	25+80.46 CTH GI	20.3' RT
H	26+09.89 CTH GI	35.3' RT
I	26+20.53 CTH GI	27.7' RT
J	26+45.94 CTH GI	20.0' RT

N

24+00

23+00

25+00

26+00

505+00

505+44

PI
504+81.53

CC2-1

CC2-2

CC2-3

CC2-4

CC2-5

15.41
S 84°11'07" W

19.11
N 46°56'44" W

41.04
N 27°18'39" W

PC
STA. 504+31.55
Y=631669.8861
X=1650061.0881

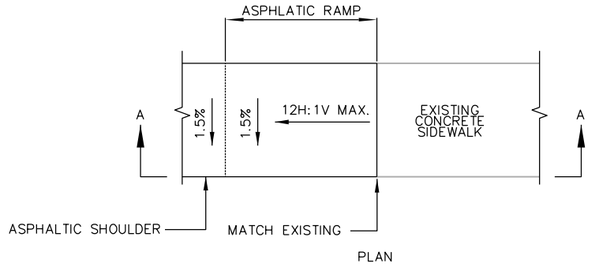
PI
STA. 504+16.14
Y=631671.4477
X=1650076.4218

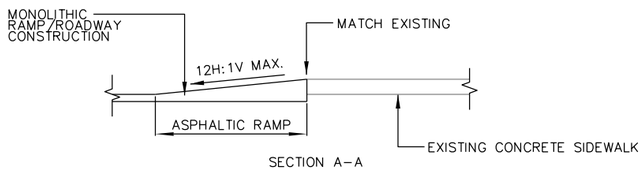
PT
STA. 505+25.38
Y=631698.9425
X=1649974.8475

POE
STA. 505+44.48
Y=631711.99
X=1649960.89

CURVE
PI STA. 504+81.53
Y=631664.823
X=1650011.367
R=110.00'
D=52°05'13.46"
DELTA=48°52'09.08"
L=93.82'
T=49.98'

PROJECT NO: 5085-00-00	HWY: CTH GI	COUNTY: LA CROSSE	CONSTRUCTION DETAIL - CANOE PORTAGE	SHEET 17	E

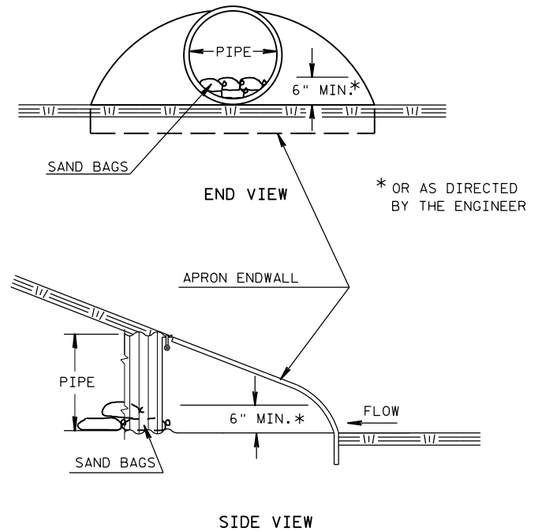




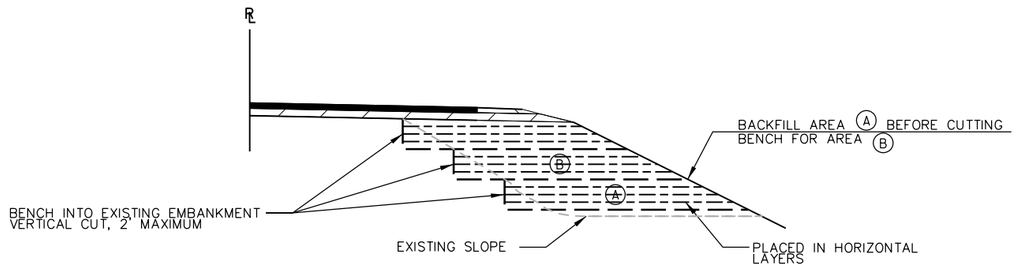
ASPHALTIC RAMP DETAIL

CTH GI
STA 20+57.39 RT
STA 22+76.06 RT

NOTE: ASPHALTIC RAMP CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "HMA PAVEMENT 4 MT 58-28 S"



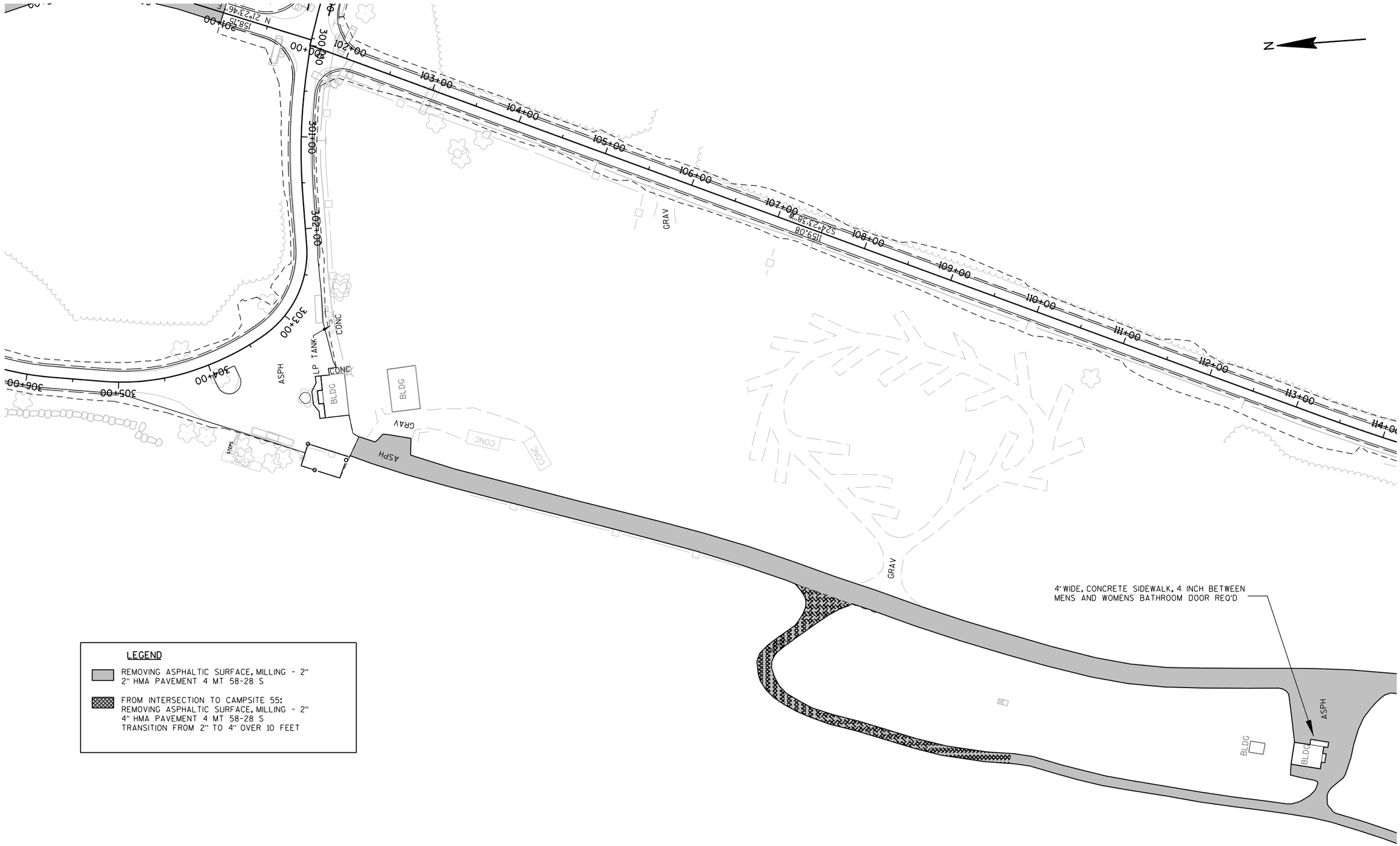
CULVERT PIPE CHECK



DETAIL SHOWING METHOD FOR BENCHING FILL AND MODIFIED CRUSHED MATERIAL INTO EXISTING EMBANKMENT

2

N



LEGEND

REMOVING ASPHALTIC SURFACE, MILLING - 2"
2" HMA PAVEMENT 4 MT 58-28 S

FROM INTERSECTION TO CAMPSITE 55:
REMOVING ASPHALTIC SURFACE, MILLING - 2"
4" HMA PAVEMENT 4 MT 58-28 S
TRANSITION FROM 2" TO 4" OVER 10 FEET

PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	CAMPSITE PAVING DETAIL	SHEET 19	E

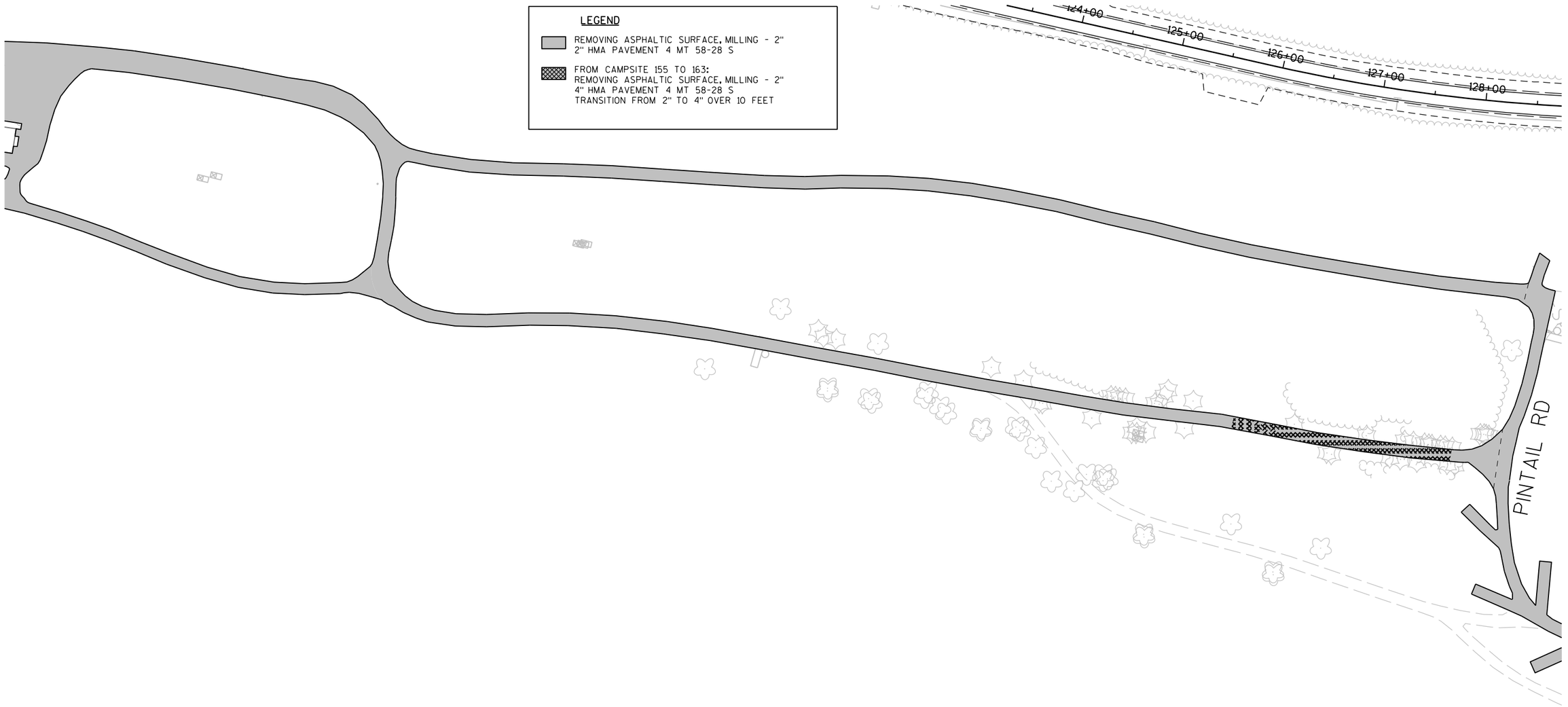
2

2

LEGEND

REMOVING ASPHALTIC SURFACE, MILLING - 2"
2" HMA PAVEMENT 4 MT 58-28 S

FROM CAMPSITE 155 TO 163:
REMOVING ASPHALTIC SURFACE, MILLING - 2"
4" HMA PAVEMENT 4 MT 58-28 S
TRANSITION FROM 2" TO 4" OVER 10 FEET



PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	CAMPSITE PAVING DETAIL	SHEET 20	E

2

N

STA 141+42.00
END CTH GI
BEGIN HUNTERS POINT RD

128+00 129+00 130+00 131+00 132+00 133+00 134+00 135+00 136+00 137+00 138+00 139+00 140+00 141+00 142

CTH GI

S5°57'53"W 105.72
S8°30'25"W 201.15
S6°12'11"W 98.58

BLDG

CANADIAN HONKER LN

BLUE GOOSE LN

SNOW GOOSE LN

PINTAIL RD

MALLARD RD

CANVASBACK RD

BLUE HERON RD

EGRET RD

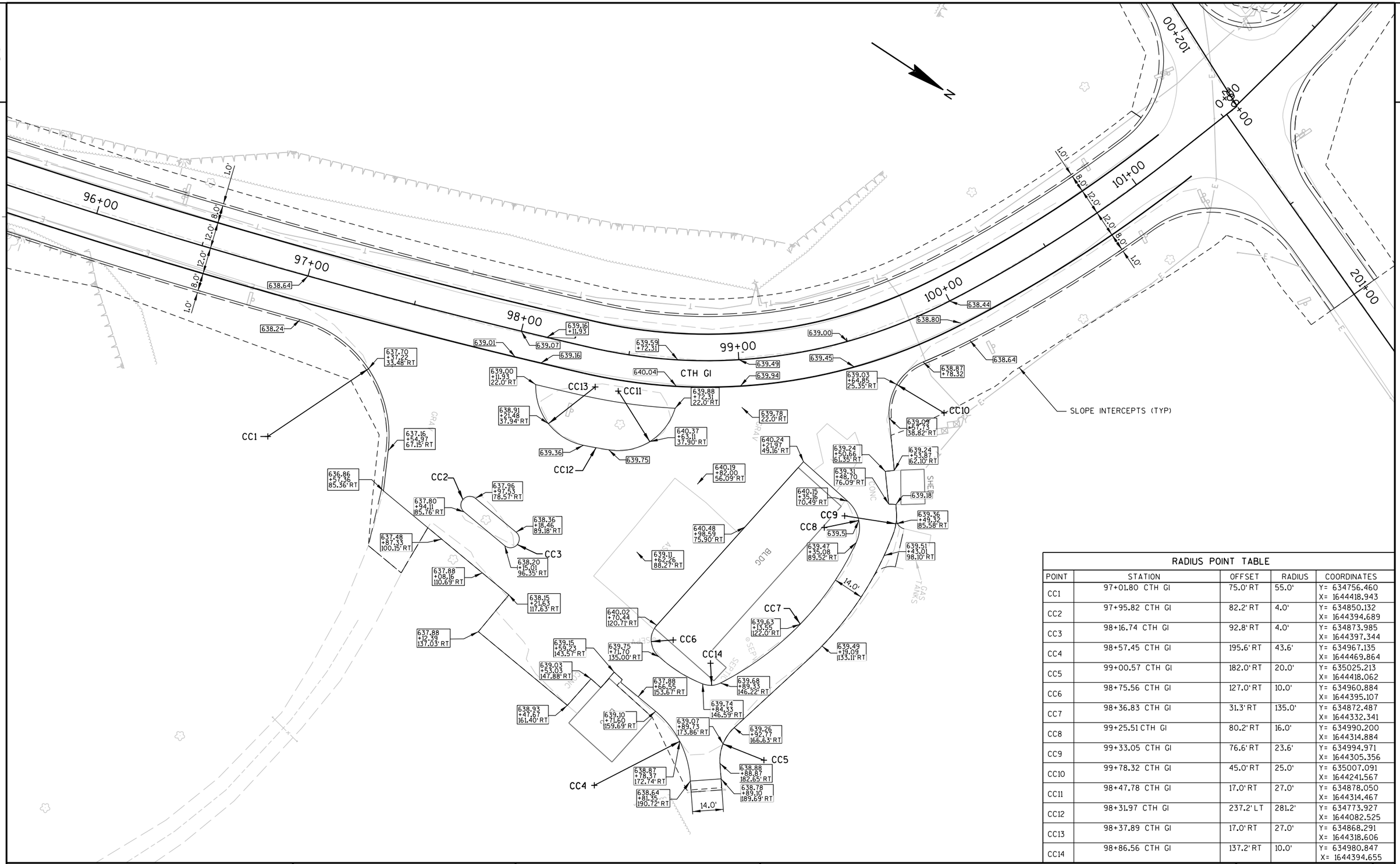
KINGFISHER RD

LEGEND

REMOVING ASPHALTIC SURFACE, MILLING - 2"
2" HMA PAVEMENT 4 MT 58-28 S

PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	CAMPSITE PAVING DETAIL	SHEET 21	E

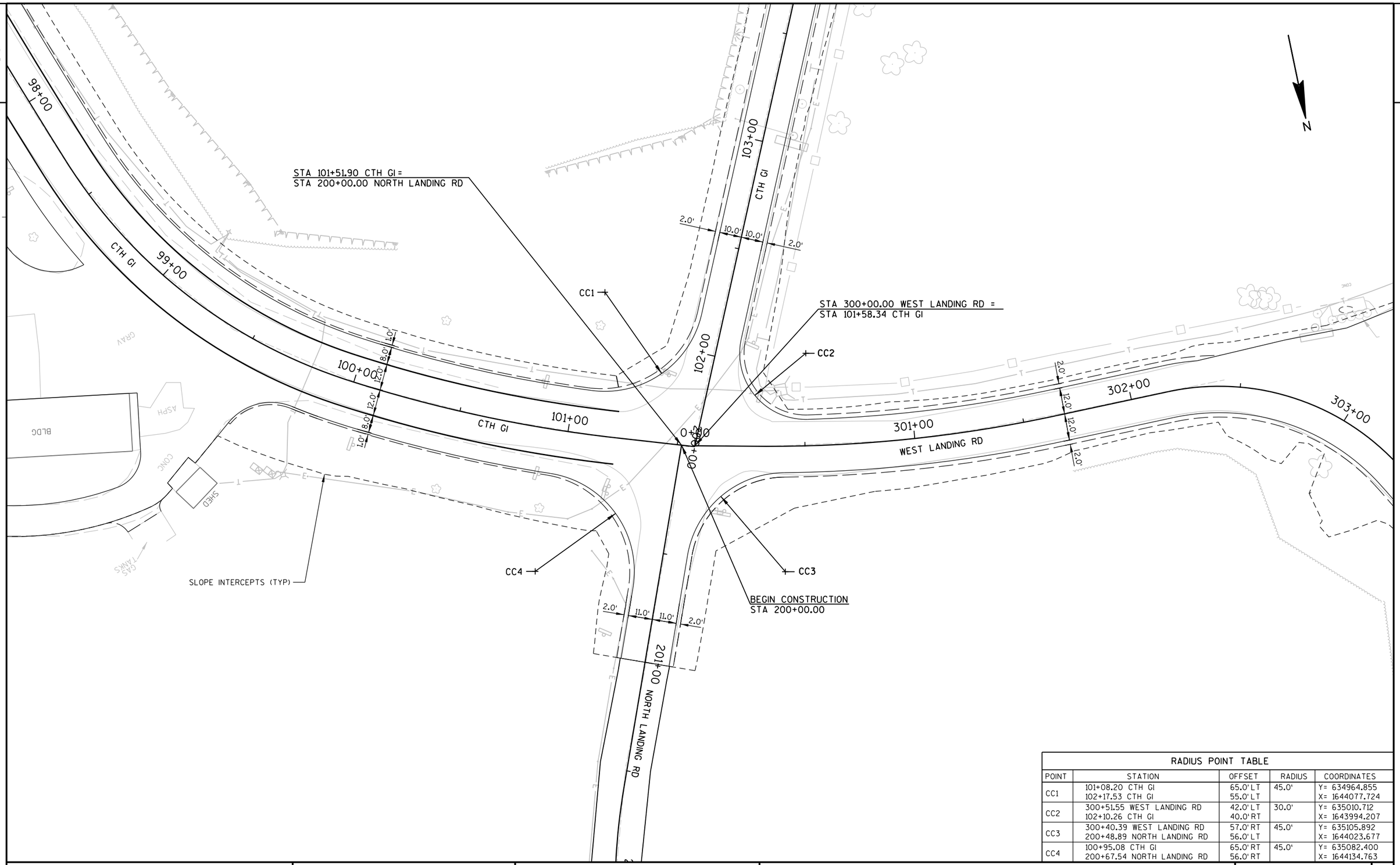
2



RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	97+01.80 CTH GI	75.0' RT	55.0'	Y= 634756.460 X= 1644418.943
CC2	97+95.82 CTH GI	82.2' RT	4.0'	Y= 634850.132 X= 1644394.689
CC3	98+16.74 CTH GI	92.8' RT	4.0'	Y= 634873.985 X= 1644397.344
CC4	98+57.45 CTH GI	195.6' RT	43.6'	Y= 634967.135 X= 1644469.864
CC5	99+00.57 CTH GI	182.0' RT	20.0'	Y= 635025.213 X= 1644418.062
CC6	98+75.56 CTH GI	127.0' RT	10.0'	Y= 634960.884 X= 1644395.107
CC7	98+36.83 CTH GI	31.3' RT	135.0'	Y= 634872.487 X= 1644332.341
CC8	99+25.51 CTH GI	80.2' RT	16.0'	Y= 634990.200 X= 1644314.884
CC9	99+33.05 CTH GI	76.6' RT	23.6'	Y= 634994.971 X= 1644305.356
CC10	99+78.32 CTH GI	45.0' RT	25.0'	Y= 635007.091 X= 1644241.567
CC11	98+47.78 CTH GI	17.0' RT	27.0'	Y= 634878.050 X= 1644314.467
CC12	98+31.97 CTH GI	237.2' LT	281.2'	Y= 634773.927 X= 1644082.525
CC13	98+37.89 CTH GI	17.0' RT	27.0'	Y= 634868.291 X= 1644318.606
CC14	98+86.56 CTH GI	137.2' RT	10.0'	Y= 634980.847 X= 1644394.655

PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	MAINTENANCE SHOP PARKING LOT DETAIL	SHEET 22	E

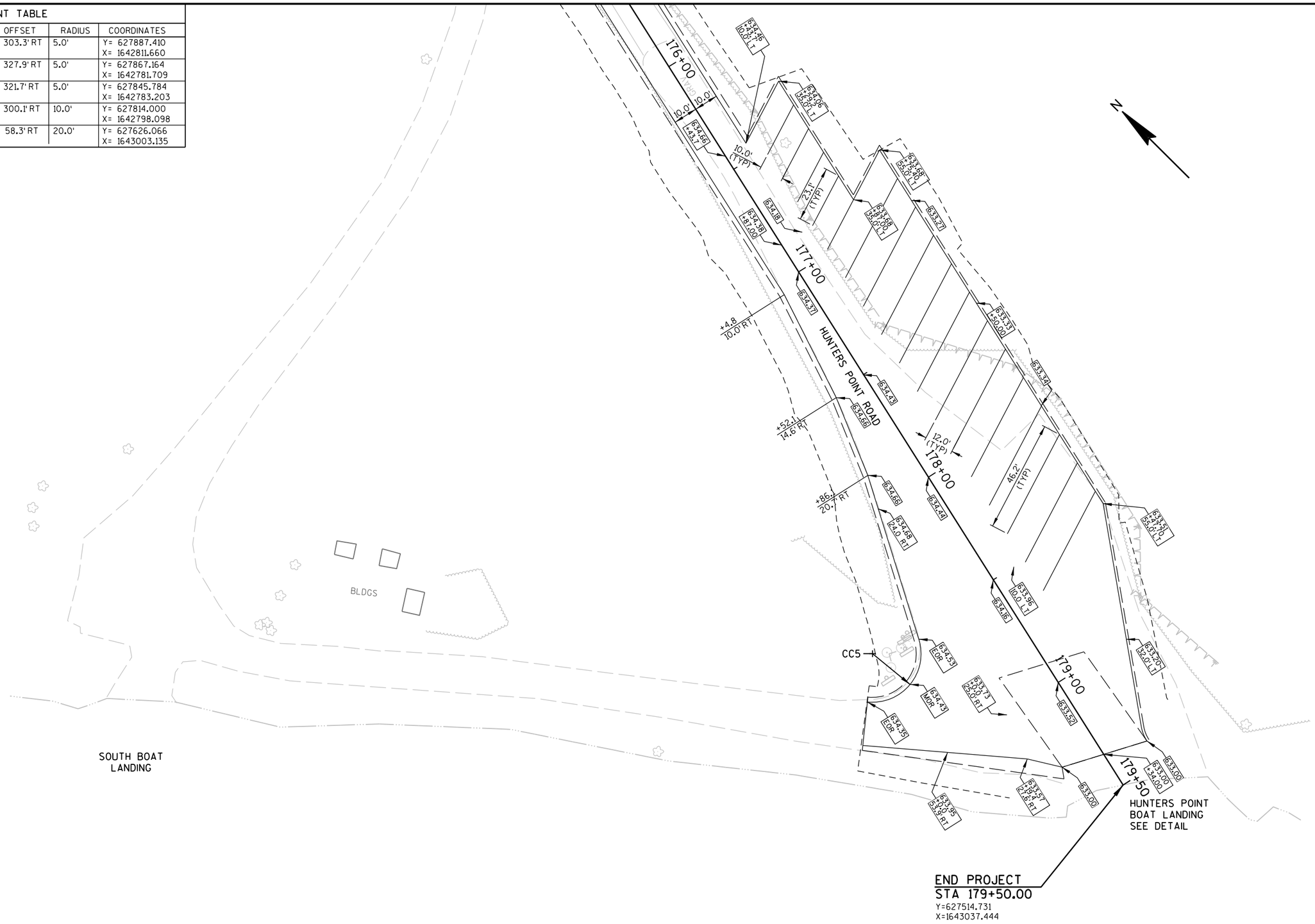
2



RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	101+08.20 CTH GI 102+17.53 CTH GI	65.0' LT 55.0' LT	45.0'	Y= 634964.855 X= 1644077.724
CC2	300+51.55 WEST LANDING RD 102+10.26 CTH GI	42.0' LT 40.0' RT	30.0'	Y= 635010.712 X= 1643994.207
CC3	300+40.39 WEST LANDING RD 200+48.89 NORTH LANDING RD	57.0' RT 56.0' LT	45.0'	Y= 635105.892 X= 1644023.677
CC4	100+95.08 CTH GI 200+67.54 NORTH LANDING RD	65.0' RT 56.0' RT	45.0'	Y= 635082.400 X= 1644134.763

PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	INTERSECTION DETAIL	SHEET 23	E

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	176+37.10 HUNTER POINT RD	303.3' RT	5.0'	Y= 627887.410 X= 1642811.660
CC2	176+63.53 HUNTER POINT RD	327.9' RT	5.0'	Y= 627867.164 X= 1642781.709
CC3	176+84.03 HUNTER POINT RD	321.7' RT	5.0'	Y= 627845.784 X= 1642783.203
CC4	177+11.69 HUNTER POINT RD	300.1' RT	10.0'	Y= 627814.000 X= 1642798.098
CC5	178+49.12 HUNTER POINT RD	58.3' RT	20.0'	Y= 627626.066 X= 1643003.135

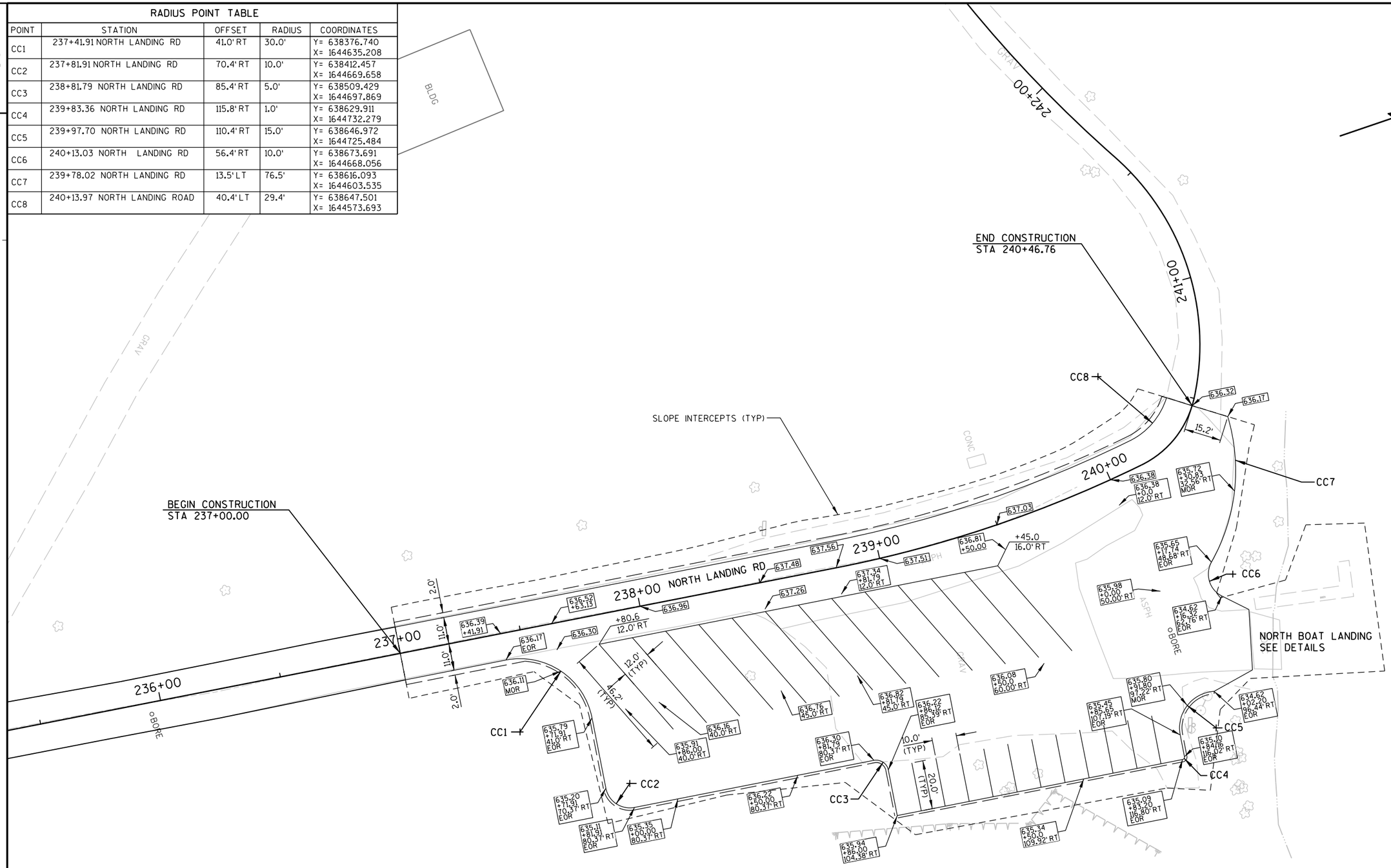


PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	HUNTERS POINT PARKING LOT DETAIL	SHEET 24	E

2

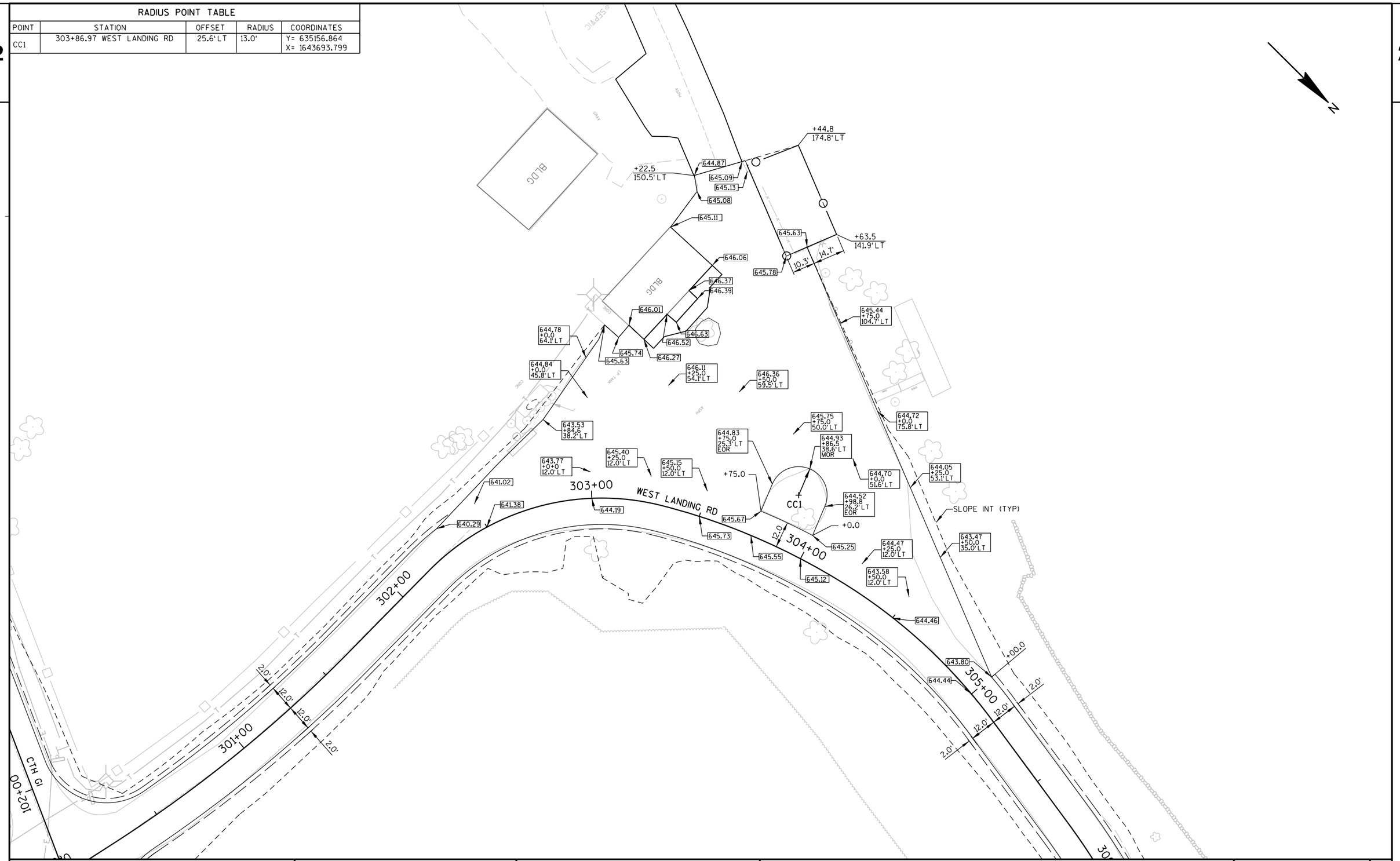
RADIUS POINT TABLE

POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	237+41.91 NORTH LANDING RD	41.0' RT	30.0'	Y= 638376.740 X= 1644635.208
CC2	237+81.91 NORTH LANDING RD	70.4' RT	10.0'	Y= 638412.457 X= 1644669.658
CC3	238+81.79 NORTH LANDING RD	85.4' RT	5.0'	Y= 638509.429 X= 1644697.869
CC4	239+83.36 NORTH LANDING RD	115.8' RT	1.0'	Y= 638629.911 X= 1644732.279
CC5	239+97.70 NORTH LANDING RD	110.4' RT	15.0'	Y= 638646.972 X= 1644725.484
CC6	240+13.03 NORTH LANDING RD	56.4' RT	10.0'	Y= 638673.691 X= 1644668.056
CC7	239+78.02 NORTH LANDING RD	13.5' LT	76.5'	Y= 638616.093 X= 1644603.535
CC8	240+13.97 NORTH LANDING ROAD	40.4' LT	29.4'	Y= 638647.501 X= 1644573.693



PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	NORTH LANDING PARKING LOT DETAIL	SHEET 25	E

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	303+86.97 WEST LANDING RD	25.6' LT	13.0'	Y= 635156.864 X= 1643693.799



PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	MANAGERS OFFICE LAYOUT DETAIL	SHEET 26	E

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	306+74.04 WEST LANDING RD	42.0'RT	30.0'	Y= 635424.953 X= 1643781.854
CC2	307+17.76 WEST LANDING RD	143.5'RT	5.0'	Y= 635442.974 X= 1643899.340
CC3	307+87.46 WEST LANDING RD	115.1'RT	15.0'	Y= 635527.654 X= 1643889.853
CC4	308+68.94 WEST LANDING RD	25.8'RT	10.0'	Y= 635626.400 X= 1643820.109
CC5	308+97.52 WEST LANDING RD	27.1'RT	15.0'	Y= 635654.037 X= 1643827.498
CC6	309+54.44 WEST LANDING RD	34.4'LT	15.0'	Y= 635722.949 X= 1643779.037
CC7	309+11.47 WEST LANDING RD	21.0'LT	10.0'	Y= 635677.978 X= 1643783.518
CC8	309+11.31 WEST LANDING RD	54.5'LT	5.0'	Y= 635685.008 X= 1643750.757
CC9	308+12.51 WEST LANDING RD	48.7'LT	5.0'	Y= 635587.269 X= 1643735.203
CC10	307+18.96 WEST LANDING RD	24.0'LT	12.0'	Y= 1643739.242 X= 635492.333
CC11	307+85.12 WEST LANDING RD	22.6'LT	8.0'	Y= 635554.922 X= 1643754.782

2

N

WEST BOAT LANDING
SEE DETAILS

SLOPE INTERCEPTS (TYP)

WEST LANDING RD

NORTH LANDING RD

305+00 306+00 307+00 308+00 309+00

208+00 209+00 207+00 206+00

CC1 CC2 CC3 CC4 CC5 CC6 CC7 CC8 CC9 CC10 CC11

633.17 +50.0 64.4'LT
633.15
633.96
637.76 +32.5 26.5'LT EOR
637.69 +77.2 20.9'LT EOR
639.14 +29.4 16.4'LT MOR
639.11 +50.0 12.0'LT
639.88 +19.0 12.0'LT EOR
638.60 +85.1 14.6'LT MOR
639.08 +0.0 34.7'LT
638.53 +92.3 19.1'LT EOR
638.71 +0.0 12.0'LT
639.81 +12.2 53.7'LT EOR
640.43 +50.0 55.9'LT
640.88 +0.0 58.8'LT
641.00 +11.0 59.5'LT EOR
639.64 +2.5 25.4'LT EOR
639.09 +3.6 14.9'LT MOR
639.20 +13.5 11.2'LT EOR
638.92 +50.0 12.0'LT
638.92 +67.6 15.9'RT EOR
639.11 +95.6 12.2'R EOR
638.81 +60.3 20.8'RT EOR
638.41 +50.0 38.3'RT
641.44 +75.0 12.0'RT EOR
640.55 MOR
639.61 EOR
639.70 +25.0 12.0'RT
639.11 +50.0 12.0'RT
638.71 +0.0 12.0'RT
638.81 +25.0 12.0'RT
638.28 +25.0 50.0'RT
638.32 +0.0 50.0'RT
638.59 +25.0 50.0'RT
638.68 +50.0 50.0'RT
638.67 +5.0 62.5'RT
638.08 +50.0 100.0'RT
637.90 +25.0 100.0'RT
637.96 +10.0 97.5'RT
637.74 +0.0 100.0'RT
637.98 +25.0 80.9'RT
637.39 +0.0 123.4'RT EOR
637.53 +50.0 138.5'RT
637.30 +92.3 129.3'RT EOR
637.47 +15.0 144.3'RT EOR
637.43 +18.6 148.3'RT EOR

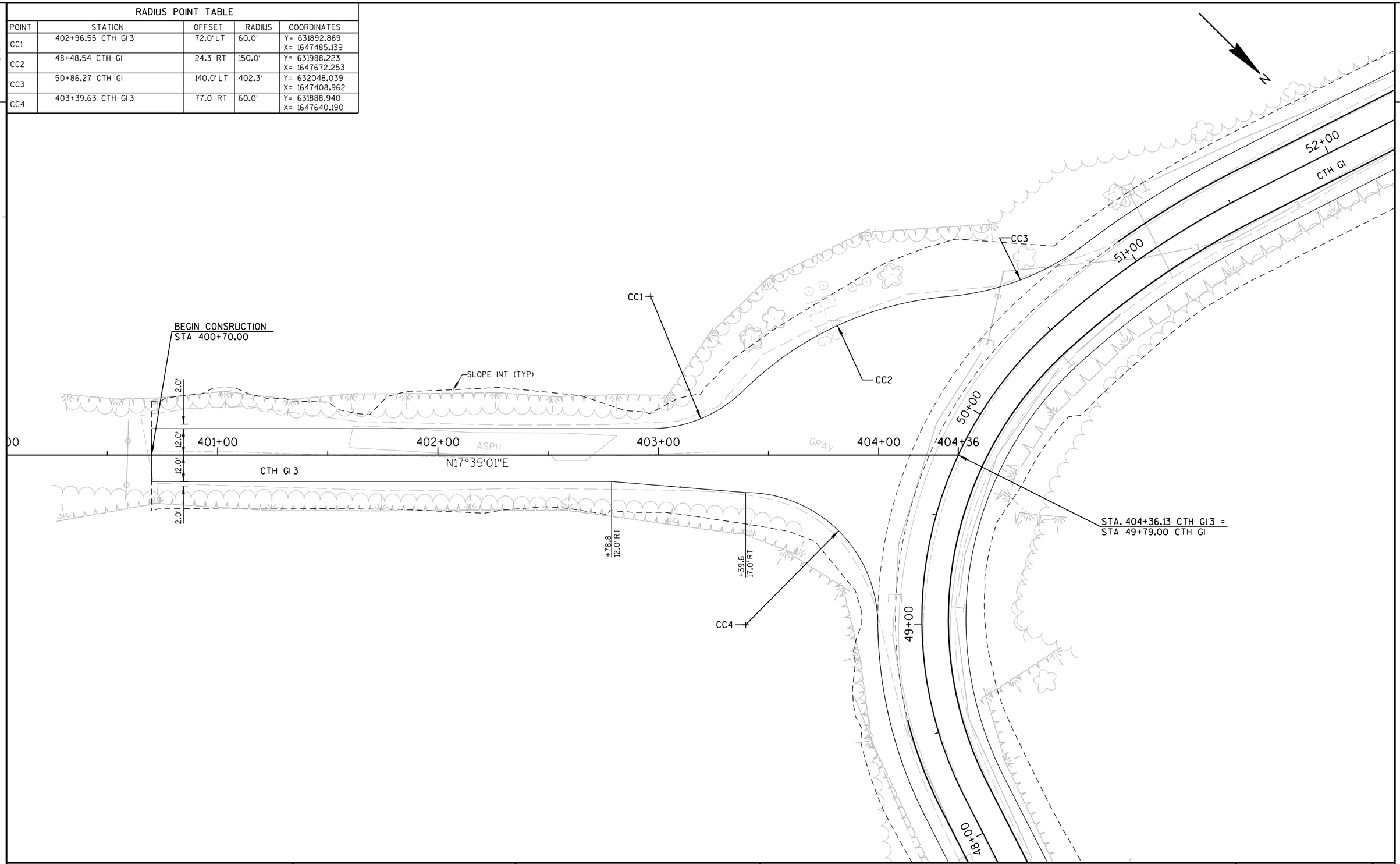
2.0' 12.0' 12.0' 2.0'
20.0' 10.0' 12.0' (TYP) 45.0' (TYP) 20.0' (TYP) 10.0' (TYP) 90° 10.0'
2.0' 11.1' 10.9' 2.0'

STA 309+55.49 WEST LANDING RD=
STA 208+16.44
NORTH LANDING RD

PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	WEST LANDING PARKING LOT DETAIL	SHEET 27	E

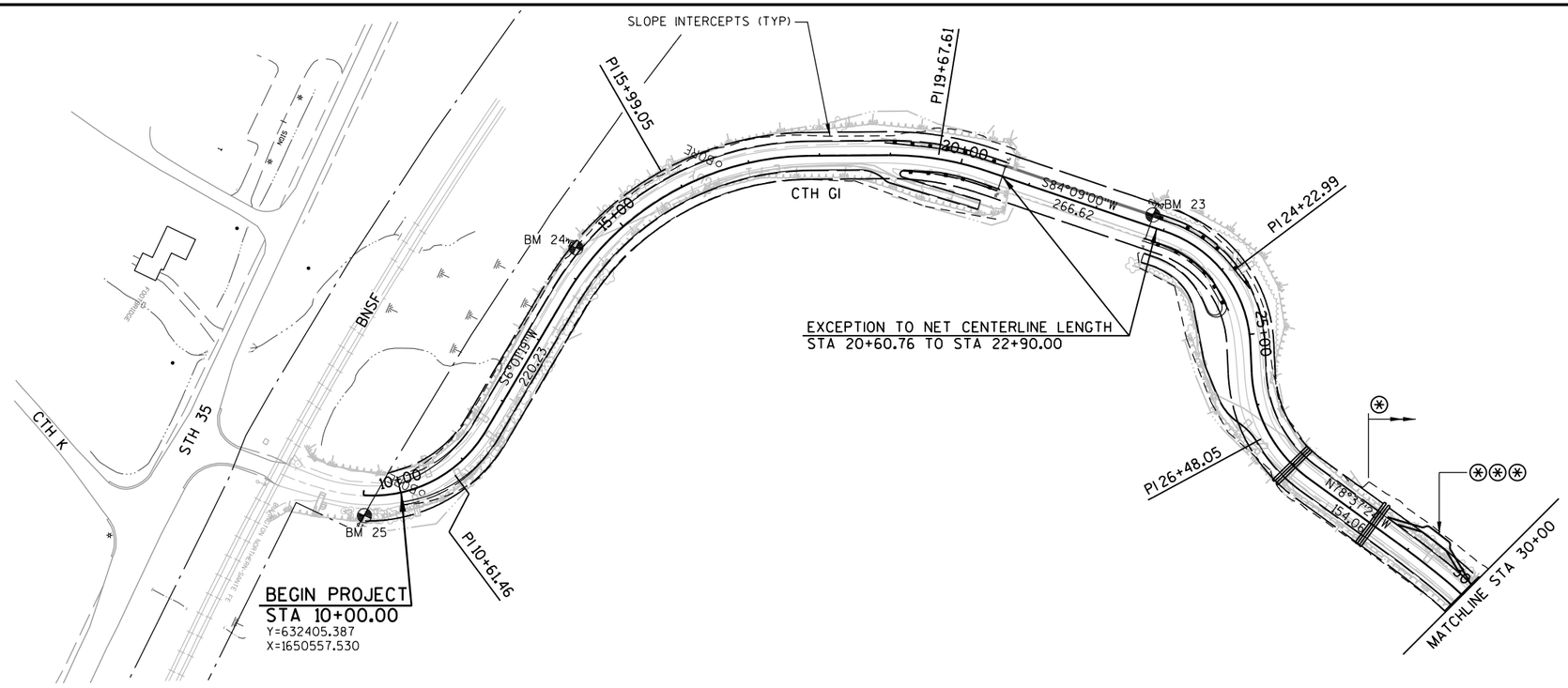
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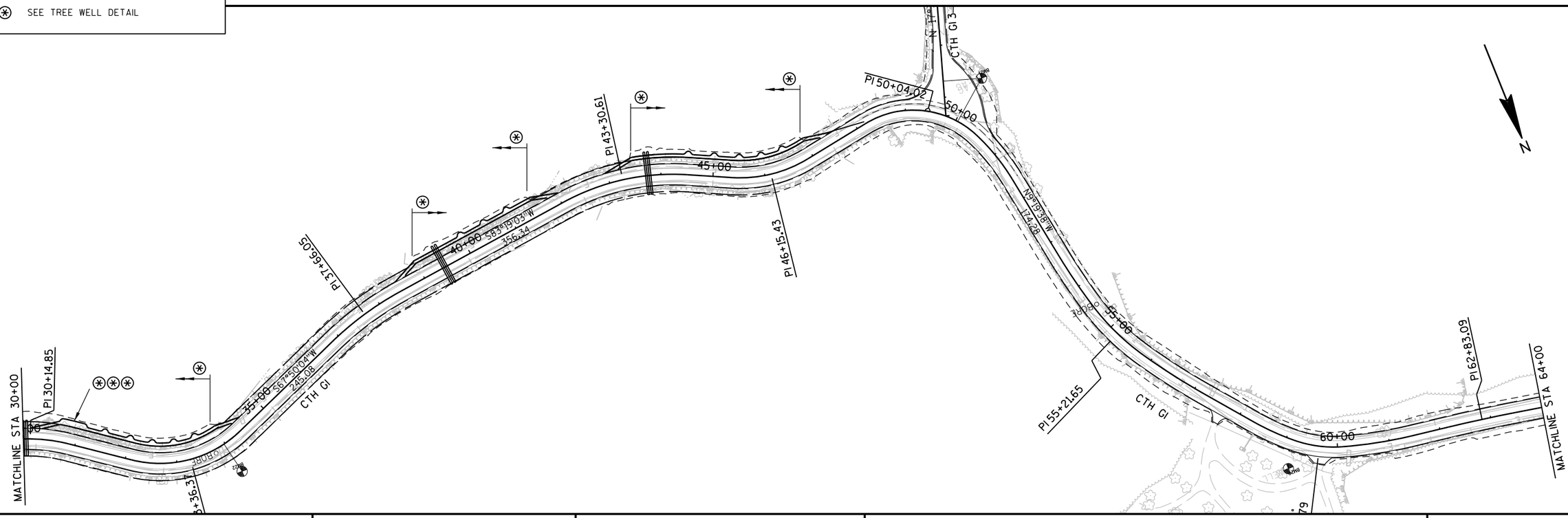
RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	402+96.55 CTH GI3	72.0' LT	60.0'	Y= 631892.889 X= 1647485.139
CC2	48+48.54 CTH GI	24.3 RT	150.0'	Y= 631988.223 X= 1647672.253
CC3	50+86.27 CTH GI	140.0' LT	402.3'	Y= 632048.039 X= 1647408.962
CC4	403+39.63 CTH GI3	77.0 RT	60.0'	Y= 631888.940 X= 1647640.190



PROJECT NO:5085-00-70	HWY: CTH GI	COUNTY:LA CROSSE	INTERSECTION DETAIL	SHEET 28	E

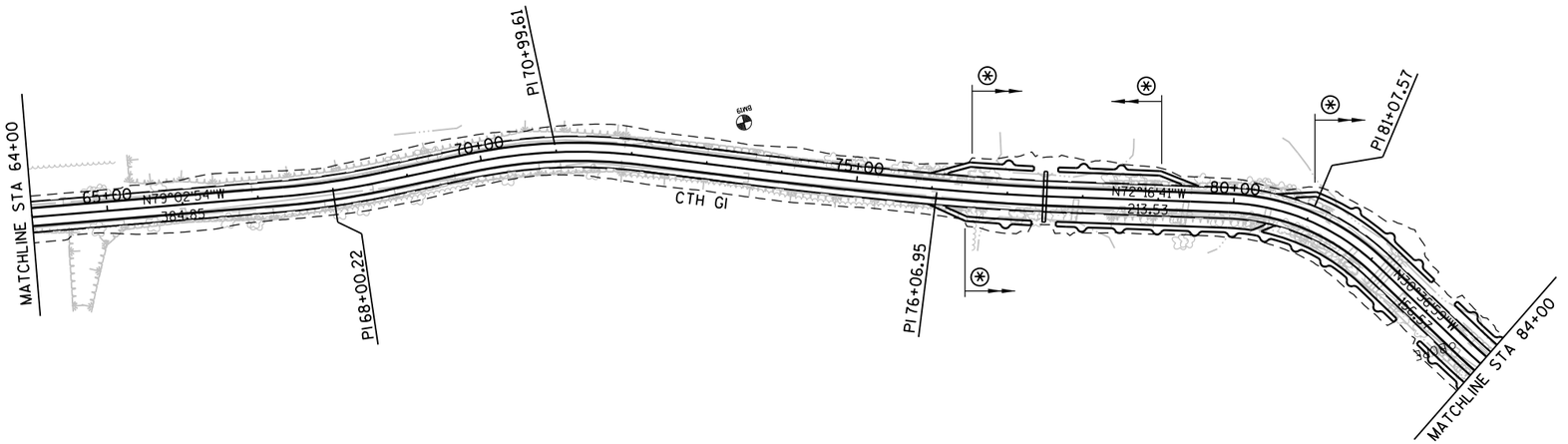
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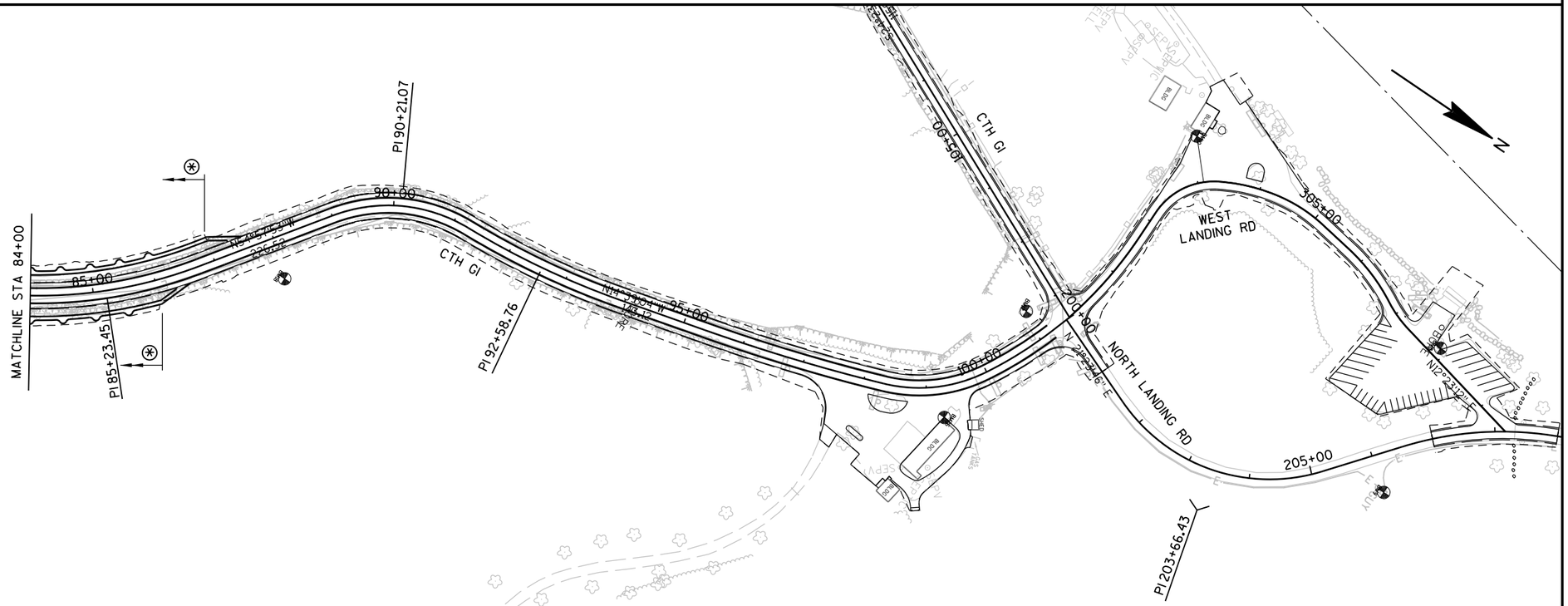
PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	TREE WELLS	SHEET 29	E

2



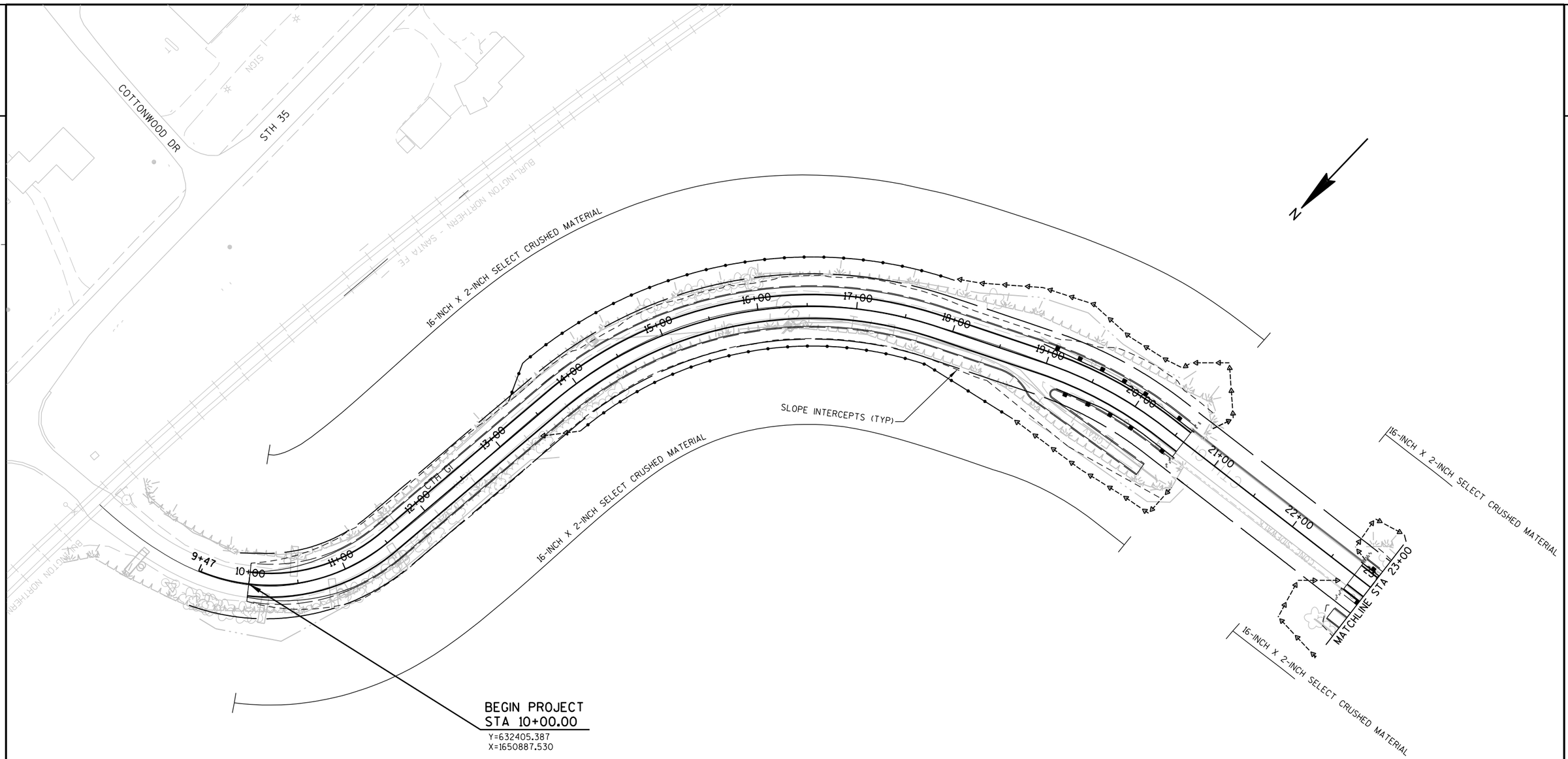
LEGEND

⊛ SEE TREE WELL DETAIL



PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	TREE WELLS	SHEET 30	E

2

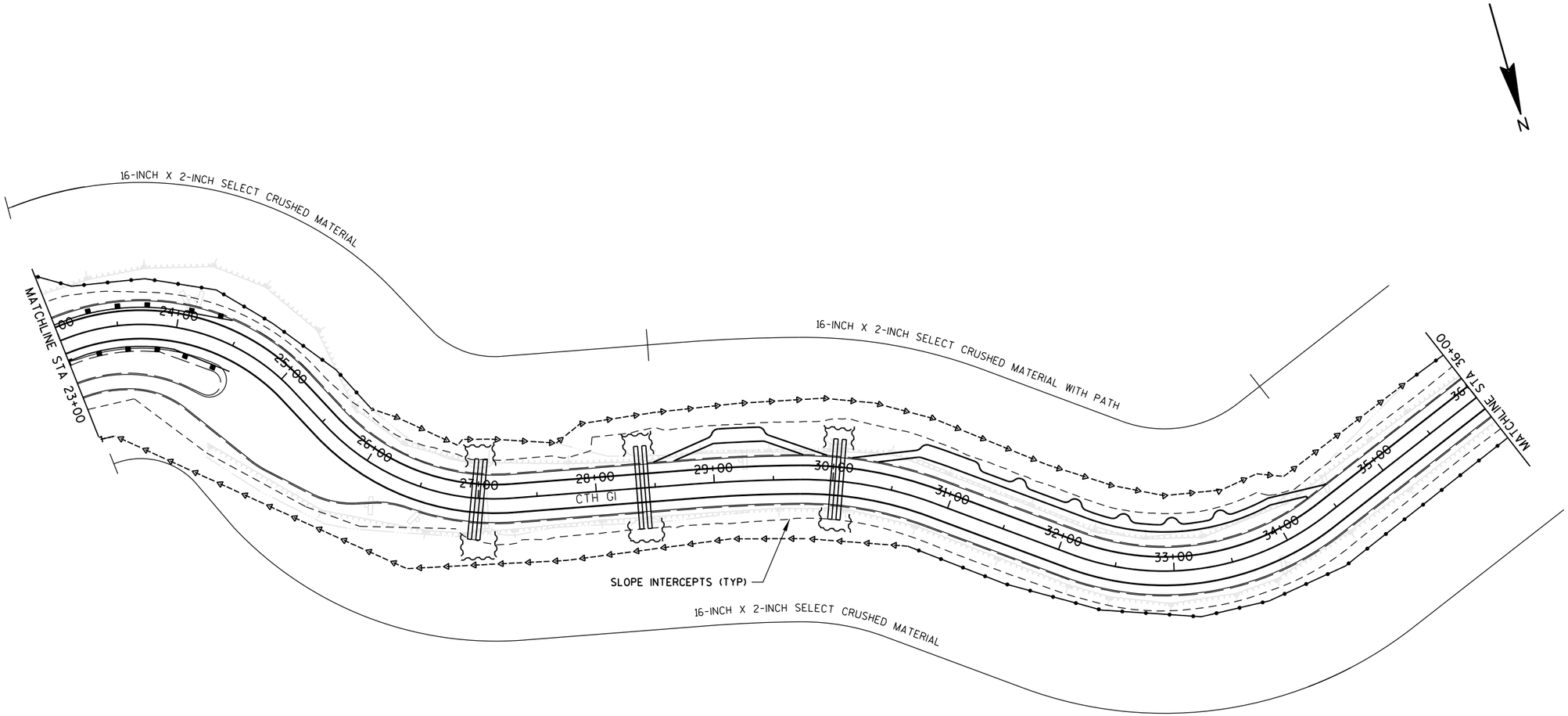


LEGEND

- SILT SCREEN
- COFFERDAMS
- SILT FENCE

PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	EROSION CONTROL	SHEET 31	E

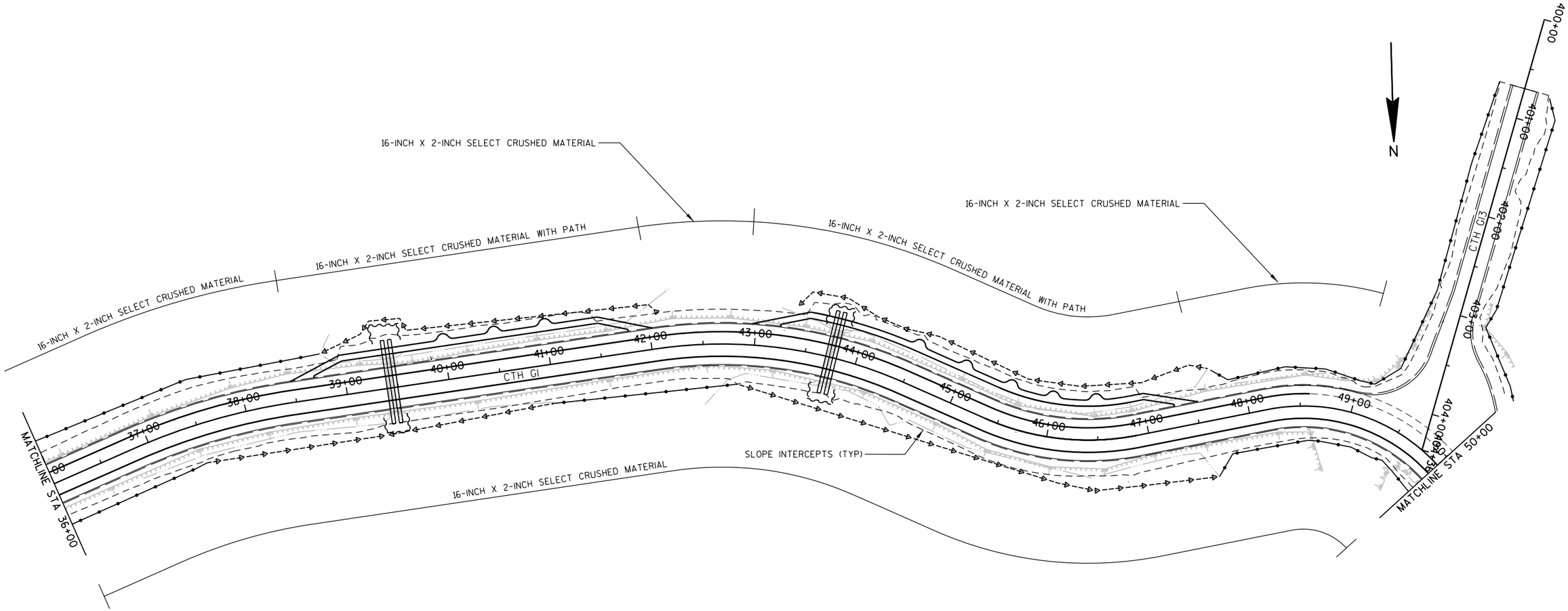
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LEGEND

- SILT SCREEN
- COFFERDAMS
- SILT FENCE

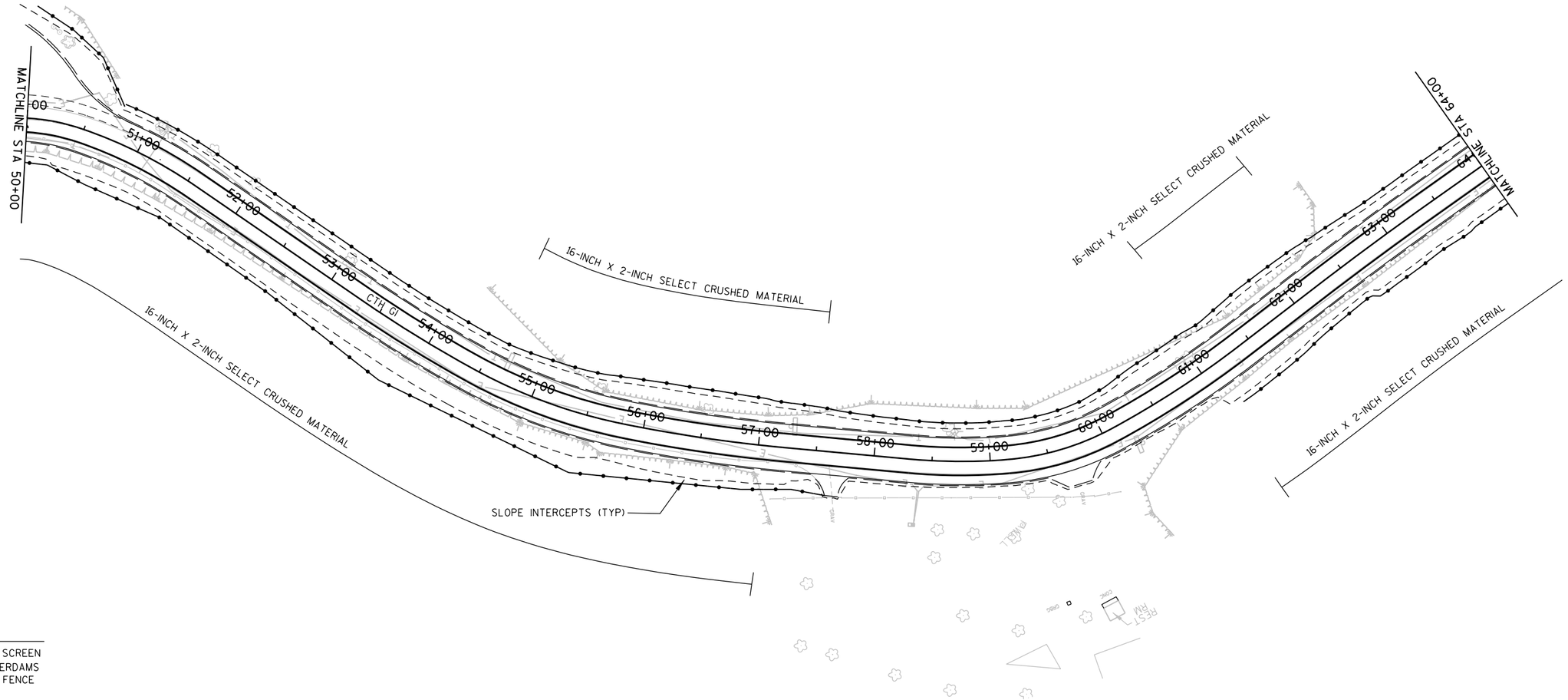
PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	EROSION CONTROL	SHEET 32	E



LEGEND

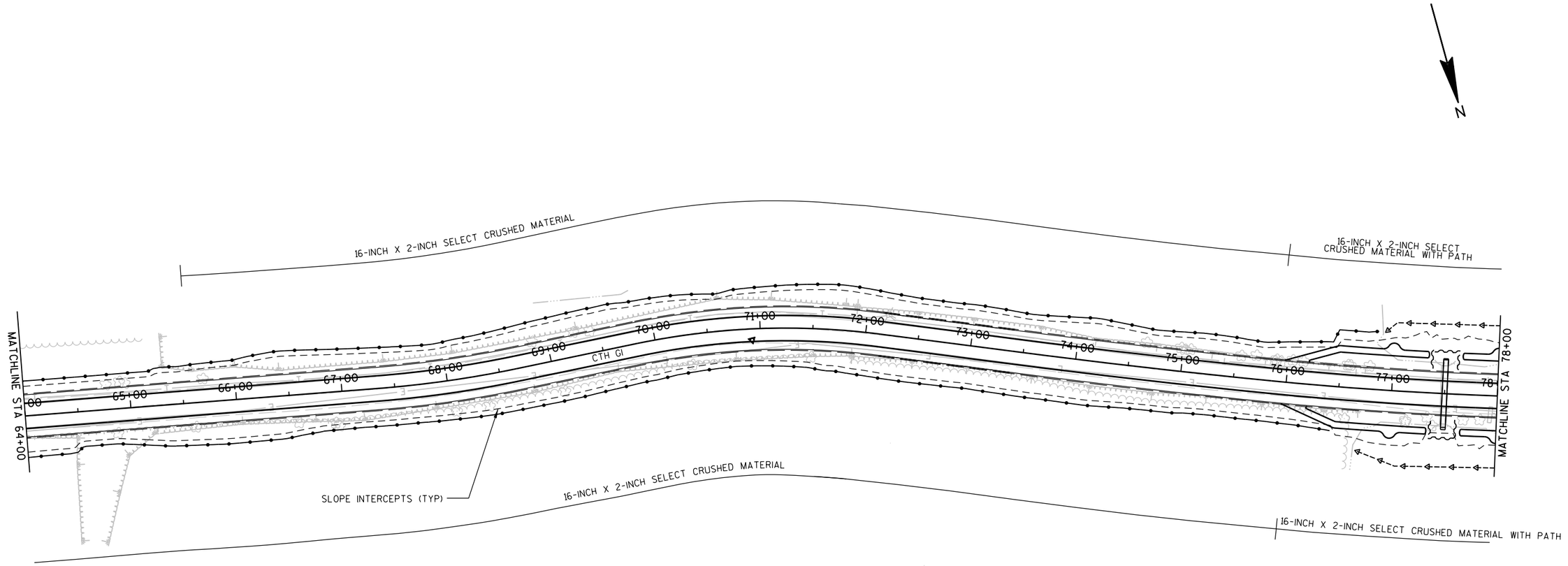
- SILT SCREEN
- COFFERDAMS
- SILT FENCE

2



PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	EROSION CONTROL	SHEET 34	E

2

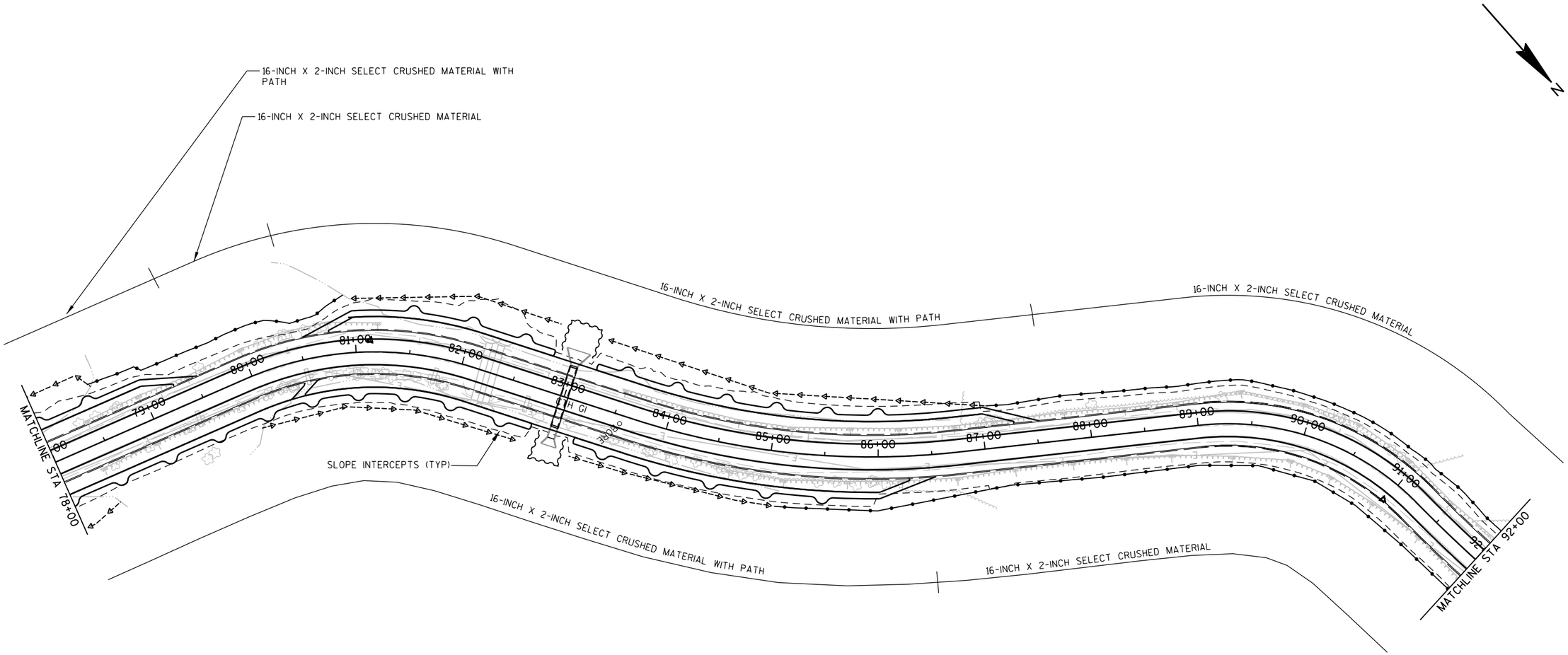


LEGEND

- SILT SCREEN
- COFFERDAMS
- SILT FENCE

PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	EROSION CONTROL	SHEET 35	E

2

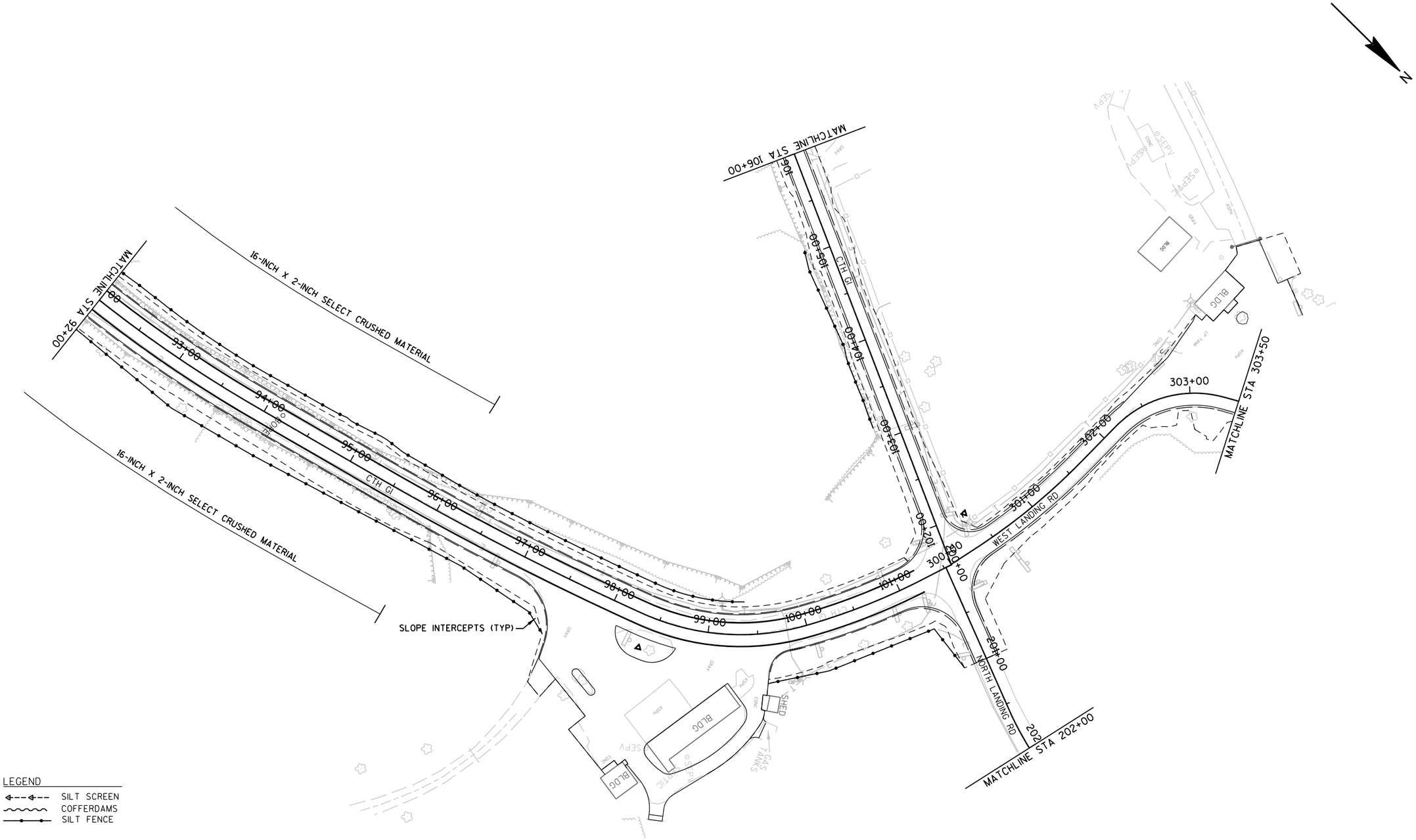


LEGEND

- SILT SCREEN
- COFFERDAMS
- SILT FENCE

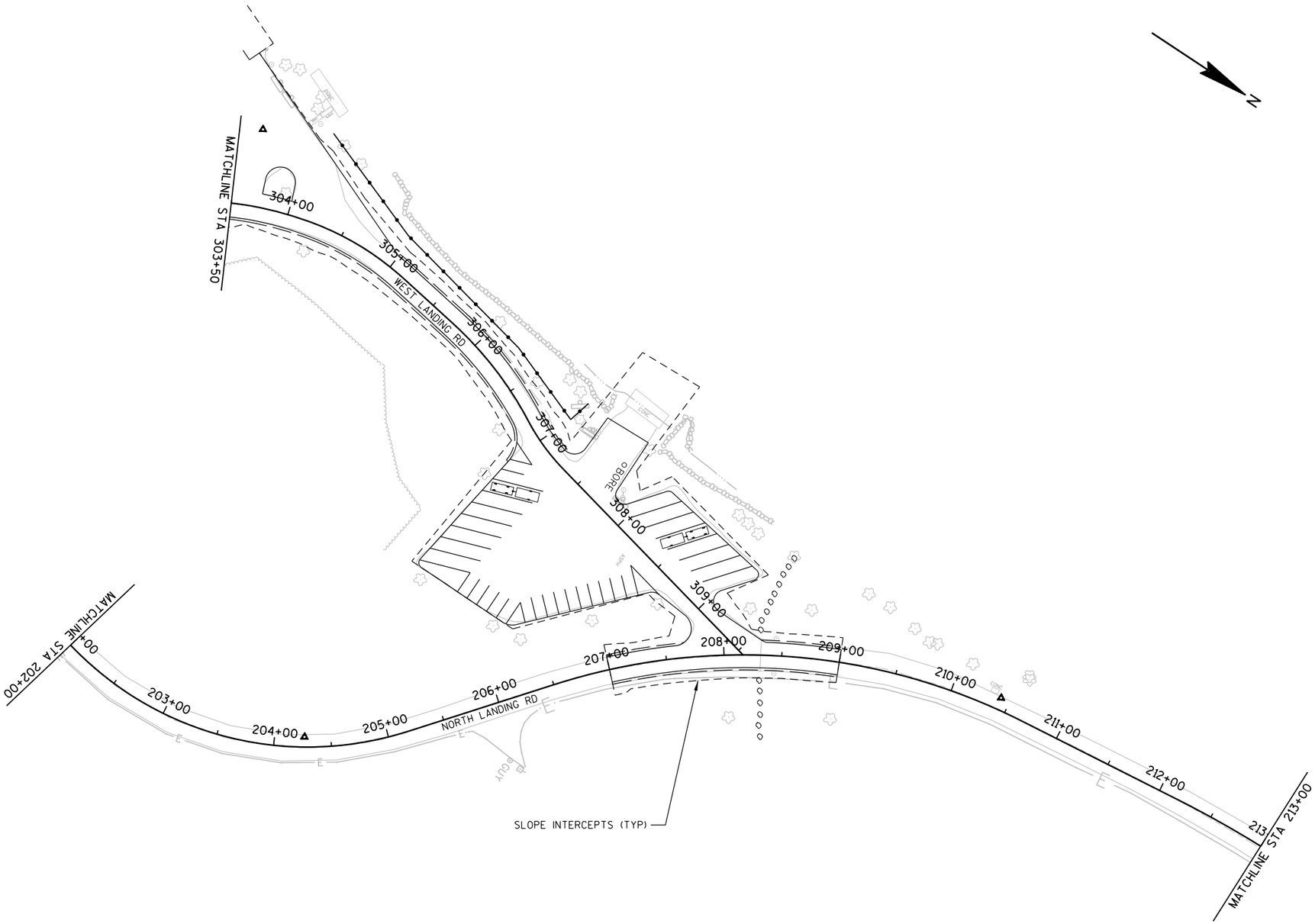
PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	EROSION CONTROL	SHEET 36	E

2



PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	EROSION CONTROL	SHEET 37	E

2



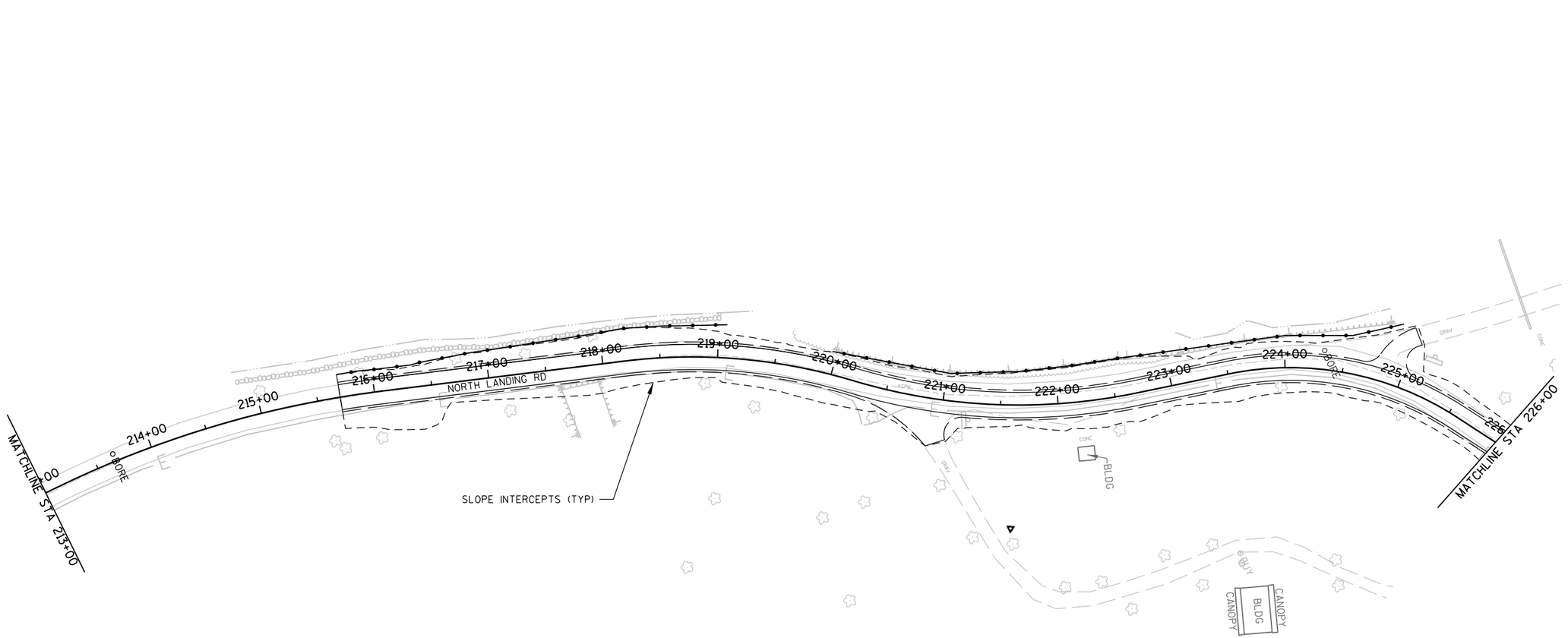
LEGEND

SILT SCREEN

SILT FENCE

PROJECT NO:5085-00-70	HWY:NORTH LANDING RD	COUNTY:LA CROSSE	EROSION CONTROL	SHEET 38	E

2



LEGEND

SILT SCREEN

SILT FENCE

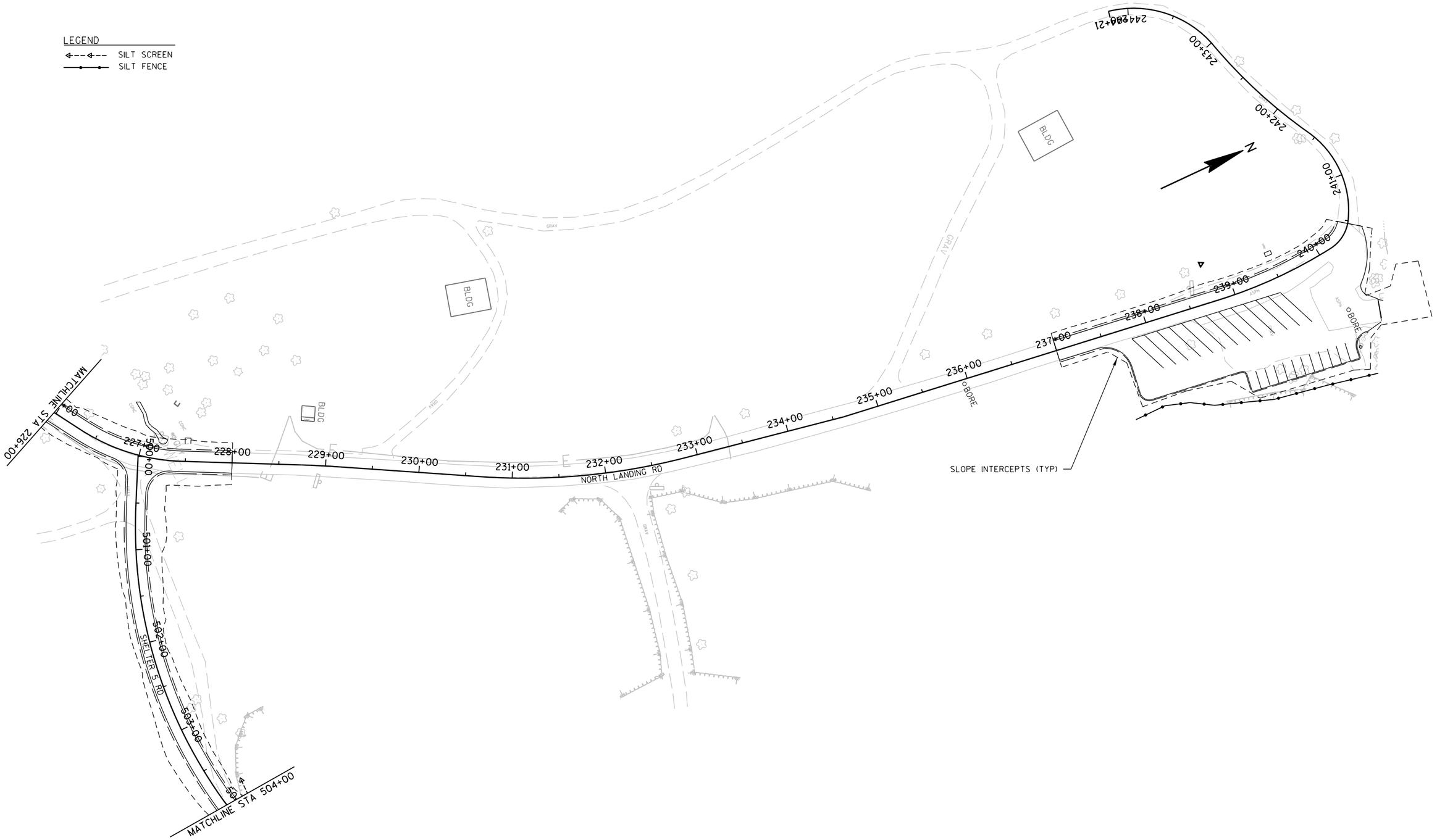
PROJECT NO:5085-00-70	HWY:NORTH LANDING RD	COUNTY:LA CROSSE	EROSION CONTROL	SHEET 39	E

2

LEGEND

SILT SCREEN

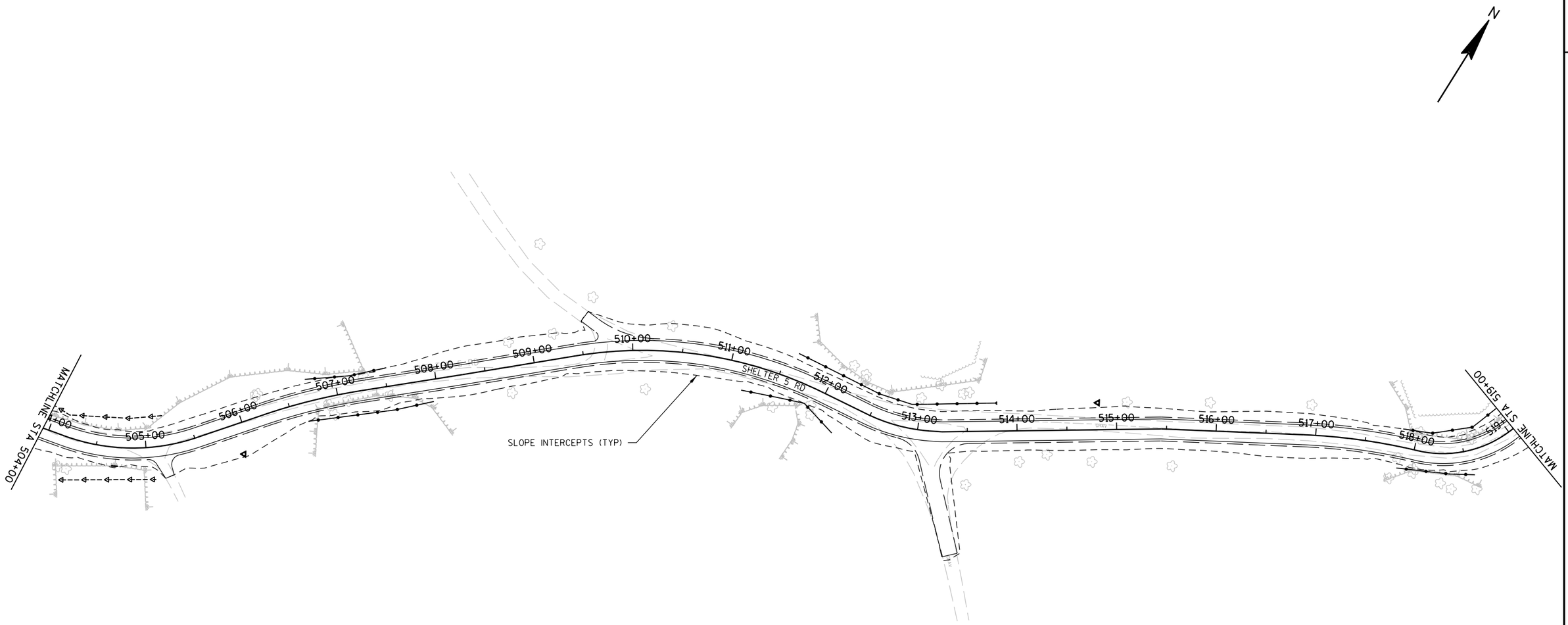
SILT FENCE



PROJECT NO:5085-00-70	HWY:NORTH LANDING RD	COUNTY:LA CROSSE	EROSION CONTROL	SHEET 40	E

FILE NAME : P:\LACRO\15005 - Goose Island\cad\ECCTHGI10.dgn PLOT DATE : 9/11/2018 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2



LEGEND

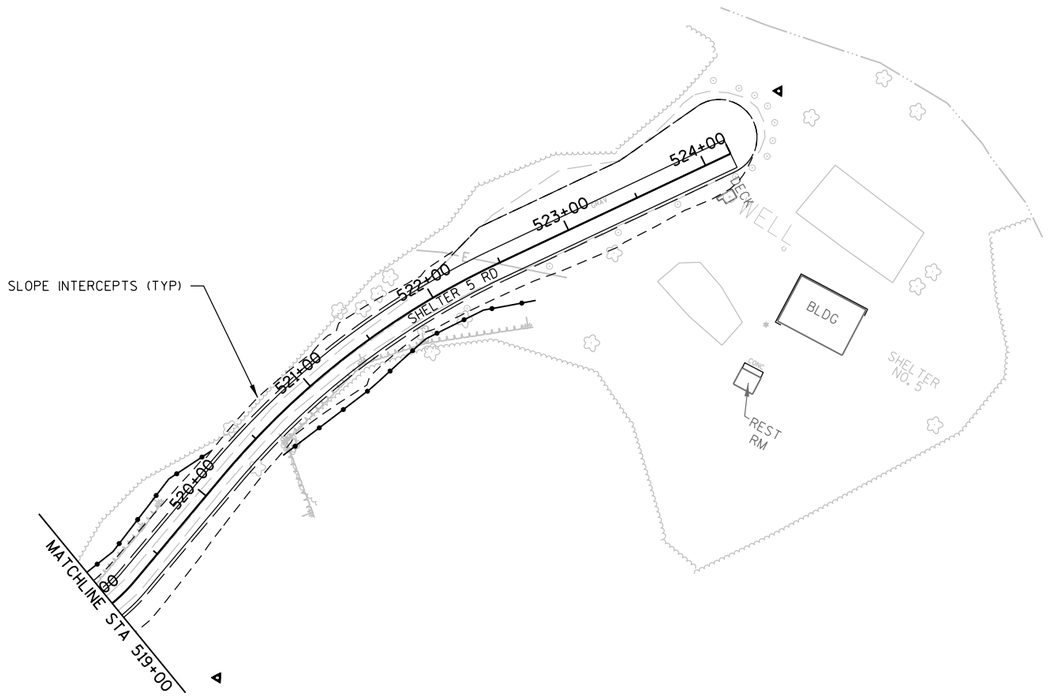
SILT SCREEN

SILT FENCE

PROJECT NO:5085-00-70	HWY:SHELTER 5 RD	COUNTY:LA CROSSE	EROSION CONTROL	SHEET 41	E

FILE NAME : P:\LACRO\15005 - Goose Island\cad\ECCTHGI11.dgn PLOT DATE : 9/11/2018 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2



LEGEND

SILT SCREEN

SILT FENCE

PROJECT NO:5085-00-70	HWY:SHELTER 5 RD	COUNTY:LA CROSSE	EROSION CONTROL	SHEET 42	E

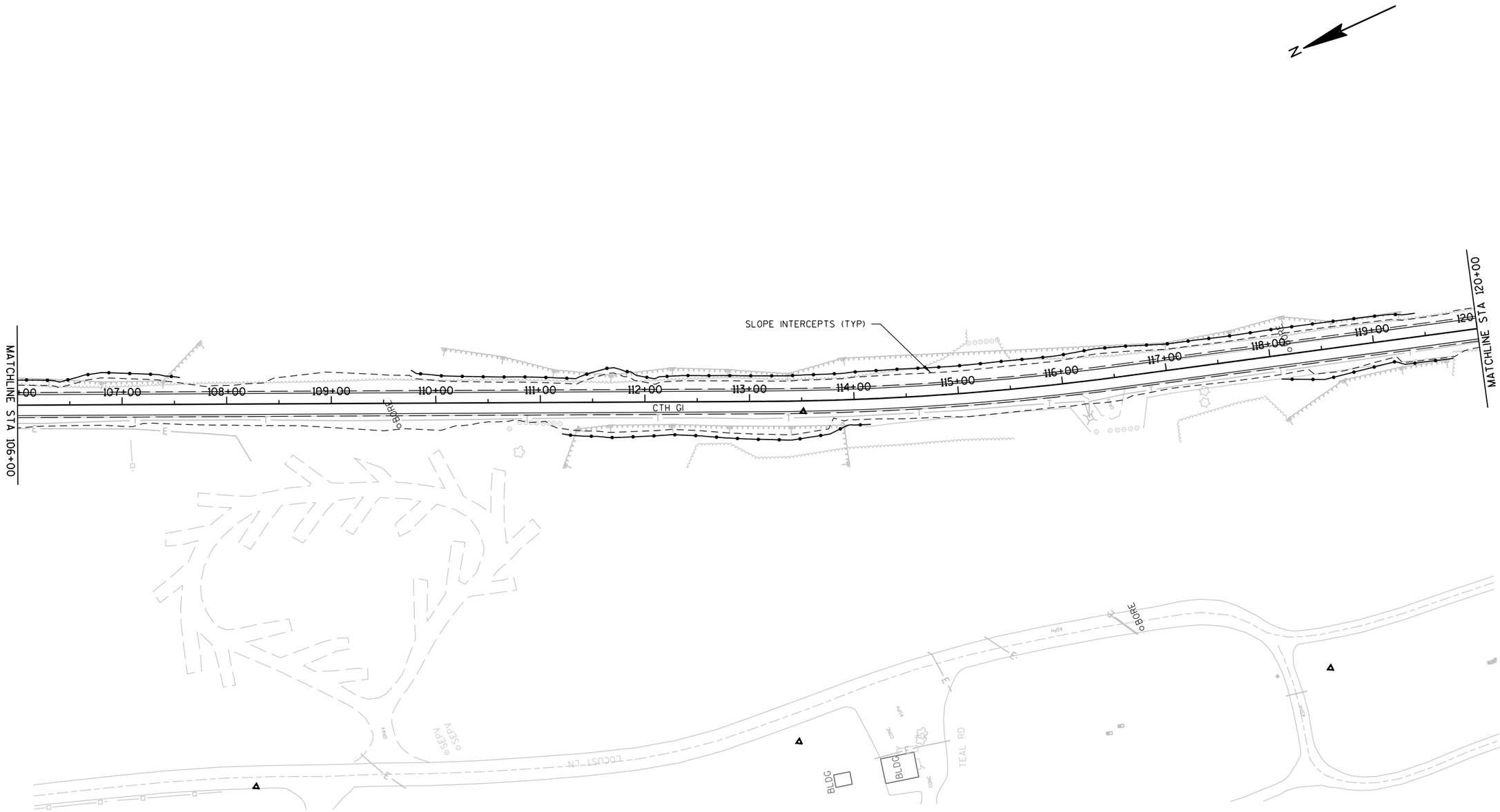
2

2

LEGEND

SILT SCREEN

SILT FENCE

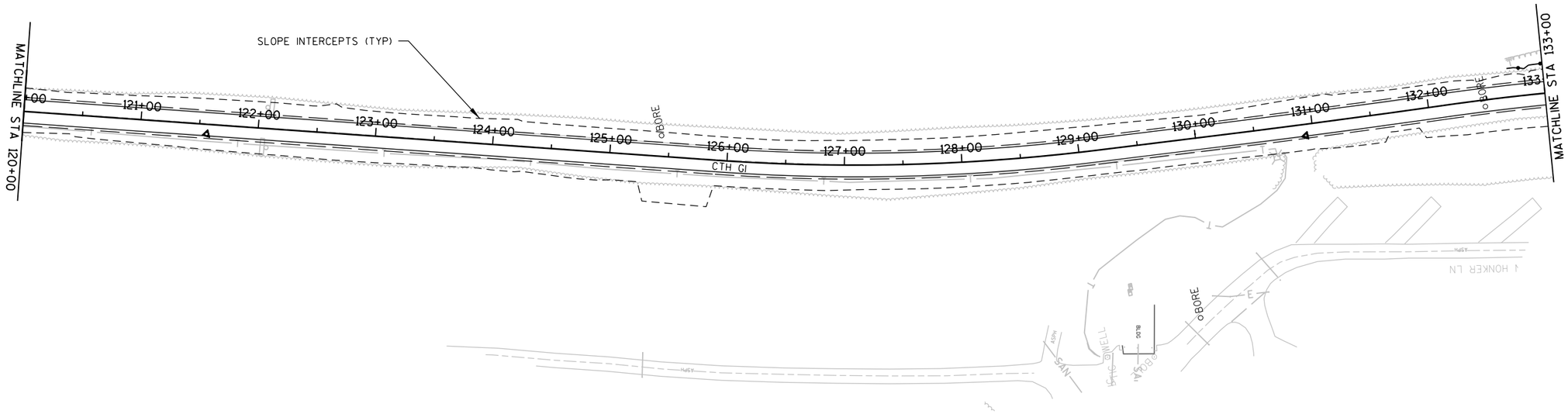


PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	EROSION CONTROL	SHEET 43	E

FILE NAME : P:\LACRO\15005 - Goose Island\cad\ECCTHGI13.dgn PLOT DATE : 9/11/2018 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

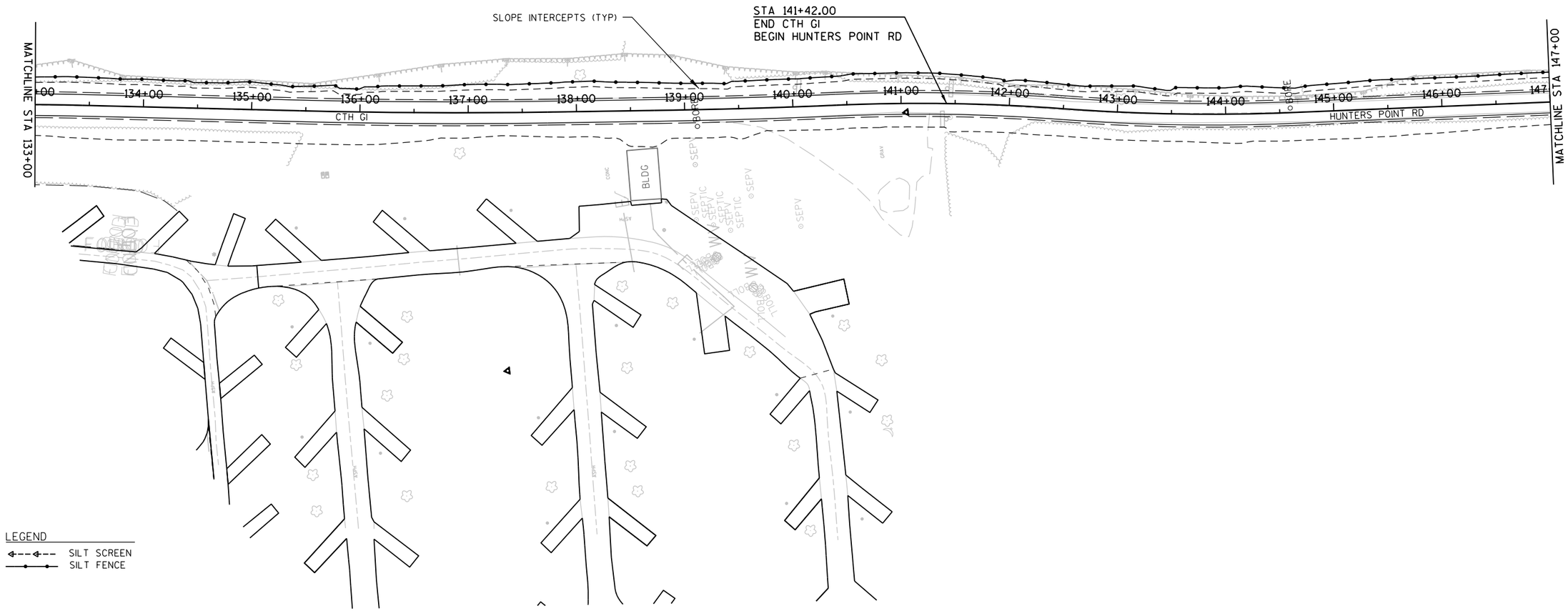


LEGEND

SILT SCREEN
SILT FENCE

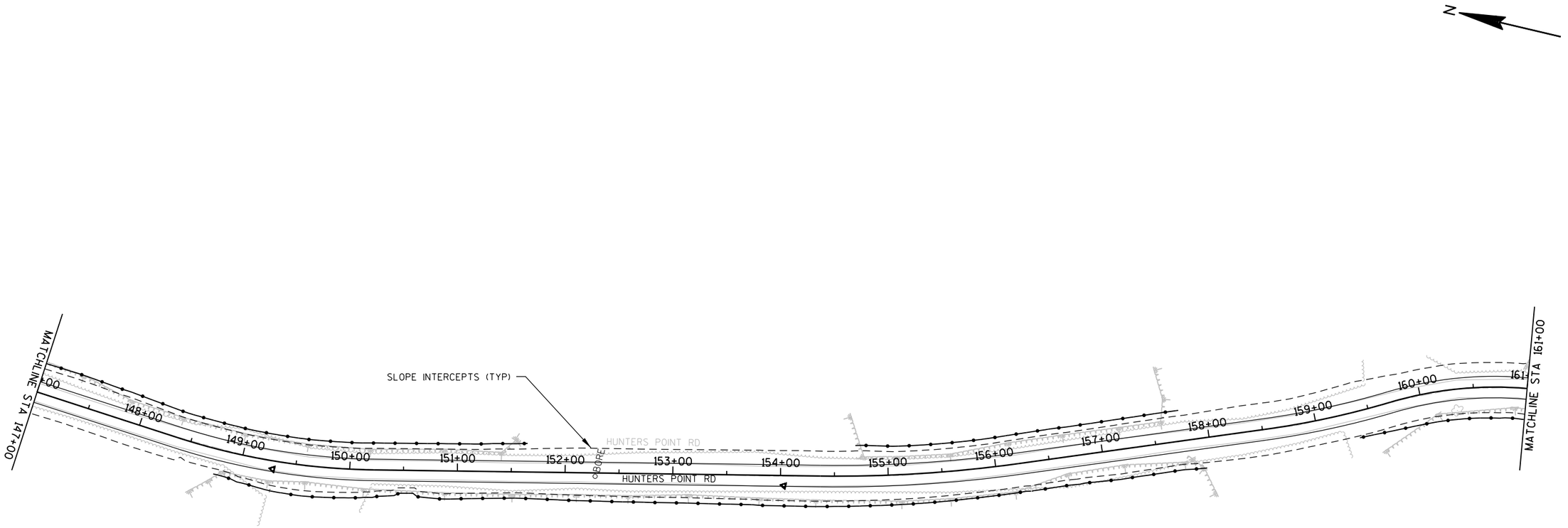
PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	EROSION CONTROL	SHEET 44	E

2



PROJECT NO:5085-00-70	HWY:CTH GI/HUNTERS POINT RD	COUNTY:LA CROSSE	EROSION CONTROL	SHEET 45	E

2



LEGEND

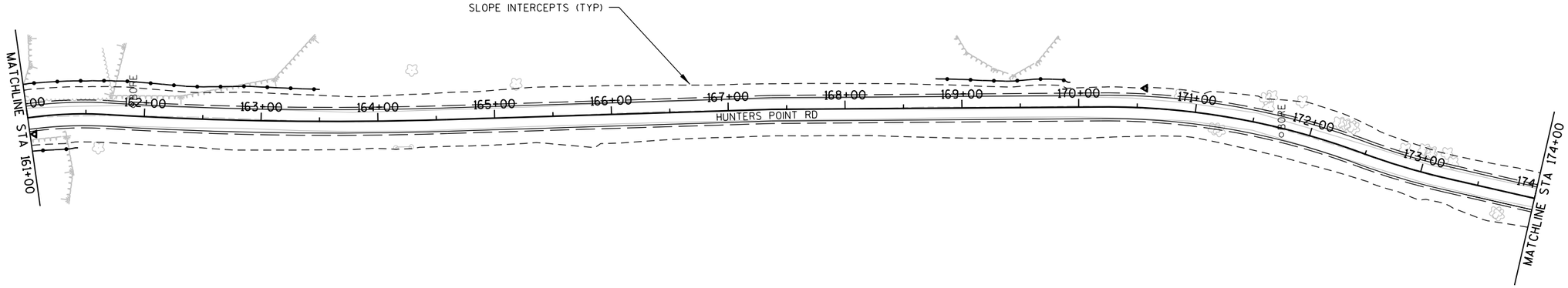
SILT SCREEN

SILT FENCE

PROJECT NO:5085-00-70	HWY:HUNTERS POINT RD	COUNTY:LA CROSSE	EROSION CONTROL	SHEET 46	E

2

N



LEGEND

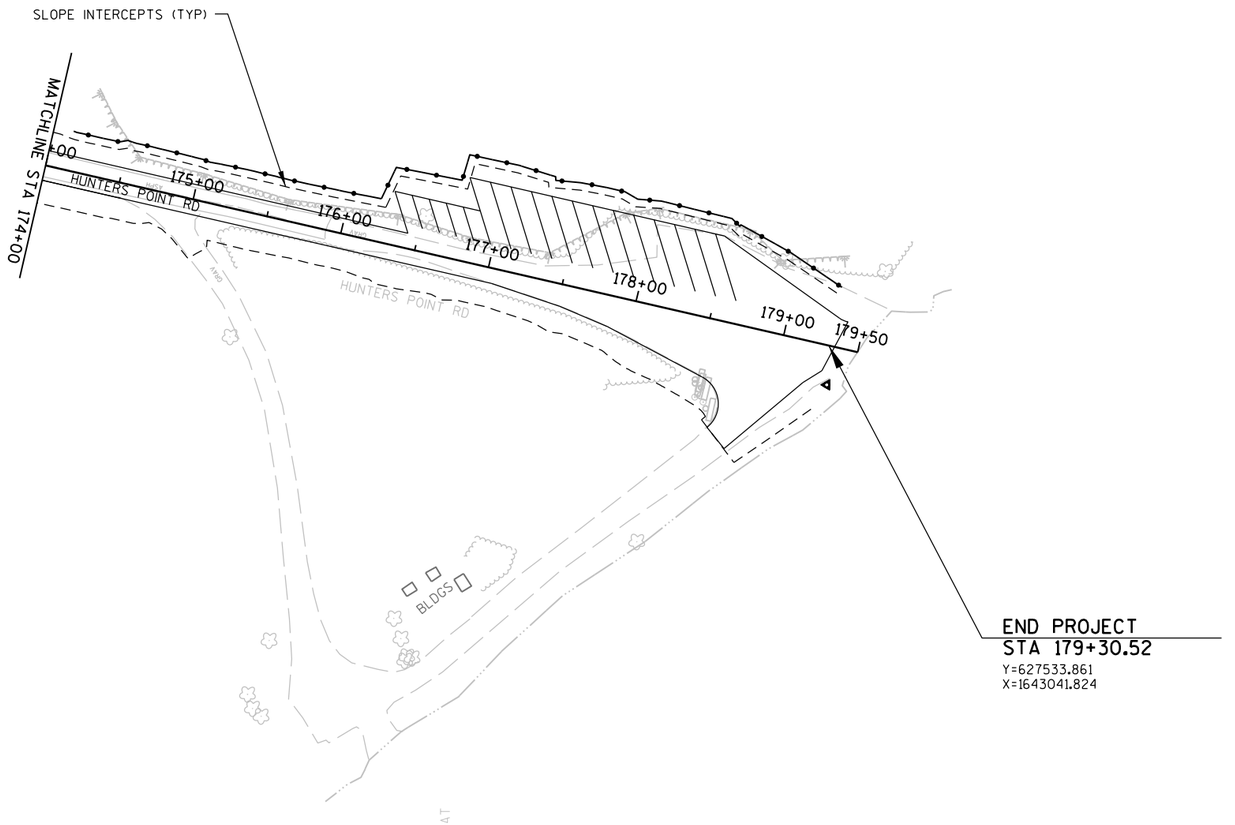
SILT SCREEN

SILT FENCE

PROJECT NO:5085-00-70	HWY:HUNTERS POINT RD	COUNTY:LA CROSSE	EROSION CONTROL	SHEET 47	E

2

N



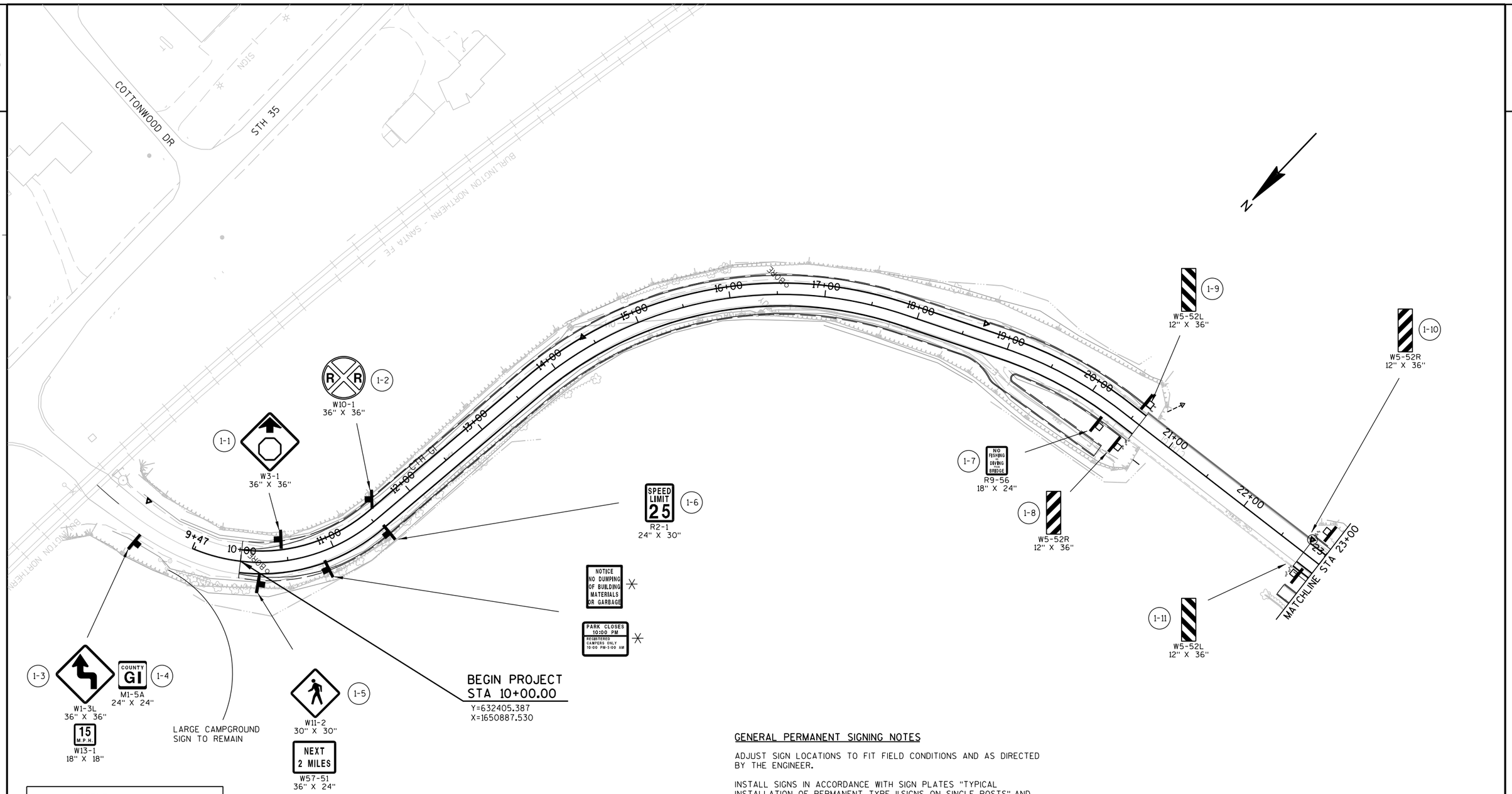
LEGEND

SILT SCREEN

SILT FENCE

PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	EROSION CONTROL	SHEET 48	E

2



LEGEND

- SIGN(S) ON TUBULAR STEEL POST
- SIGN(S) ON LIGHT/SIGNAL POST
- SIGN(S) ON WOOD POST(S)
- 0-0 SIGN GROUP NUMBER
- PARK SIGN REMOVED BY OTHERS

GENERAL PERMANENT SIGNING NOTES

ADJUST SIGN LOCATIONS TO FIT FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER.

INSTALL SIGNS IN ACCORDANCE WITH SIGN PLATES "TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS" AND "TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS".

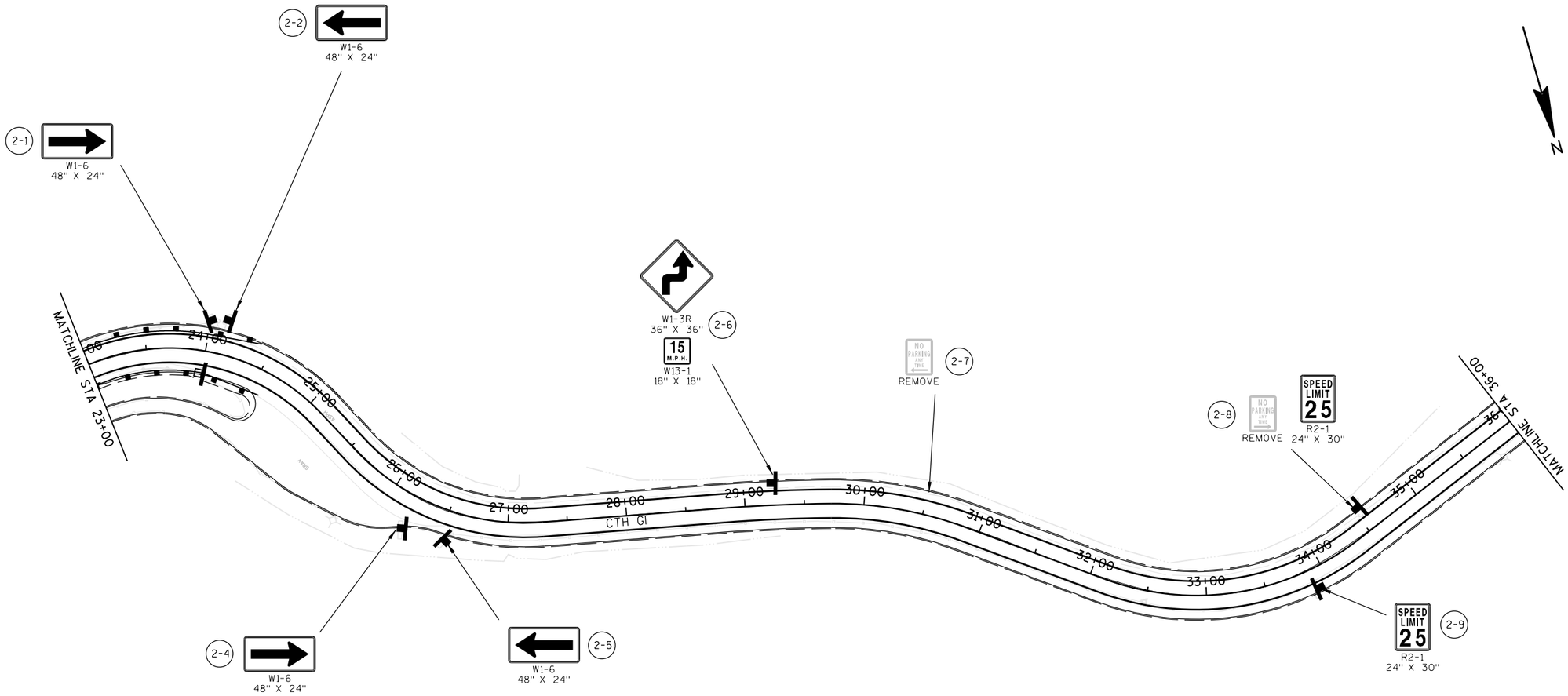
THE OFFSET DISTANCE FROM THE CURB FACE TO EDGE OF SIGN SHALL BE 1' WHEN DIRECTED BY THE ENGINEER.

FOR NON-STANDARD SIGN DETAILS, REFER TO THE CURRENT MUTCD PUBLICATION FOR STANDARD HIGHWAY SIGNS.

PARK SIGNS NOT SHOWN ARE THE PROPERTY OF LA CROSSE COUNTY FACILITIES. WHEN THESE SIGNS CONFLICT WITH CONSTRUCTION, COORDINATE WITH THE DEPARTMENT FOR REMOVAL BY OTHERS.

PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	PERMANENT SIGNING	SHEET 49	E

2

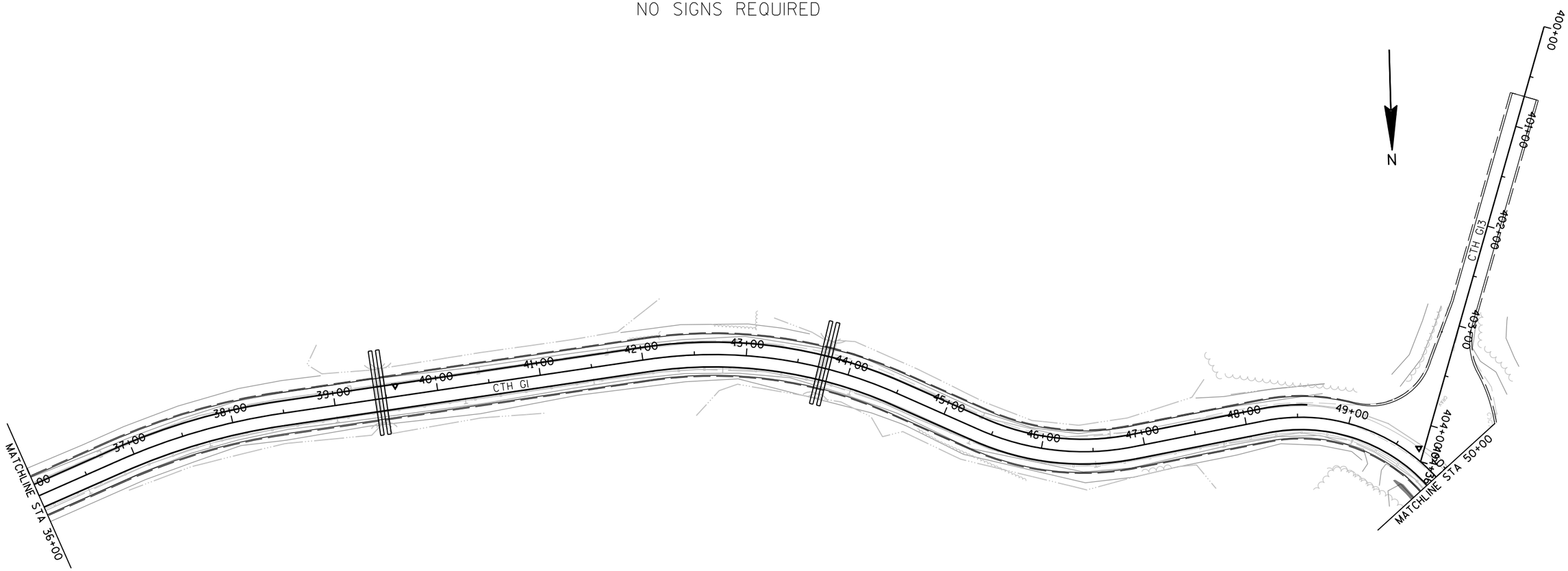


LEGEND

- SIGN(S) ON TUBULAR STEEL POST
- SIGN(S) ON LIGHT/SIGNAL POST
- SIGN(S) ON WOOD POST(S)
- (0-0) SIGN GROUP NUMBER
- PARK SIGN REMOVED BY OTHERS

PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	PERMANENT SIGNING	SHEET 50	E

NO SIGNS REQUIRED

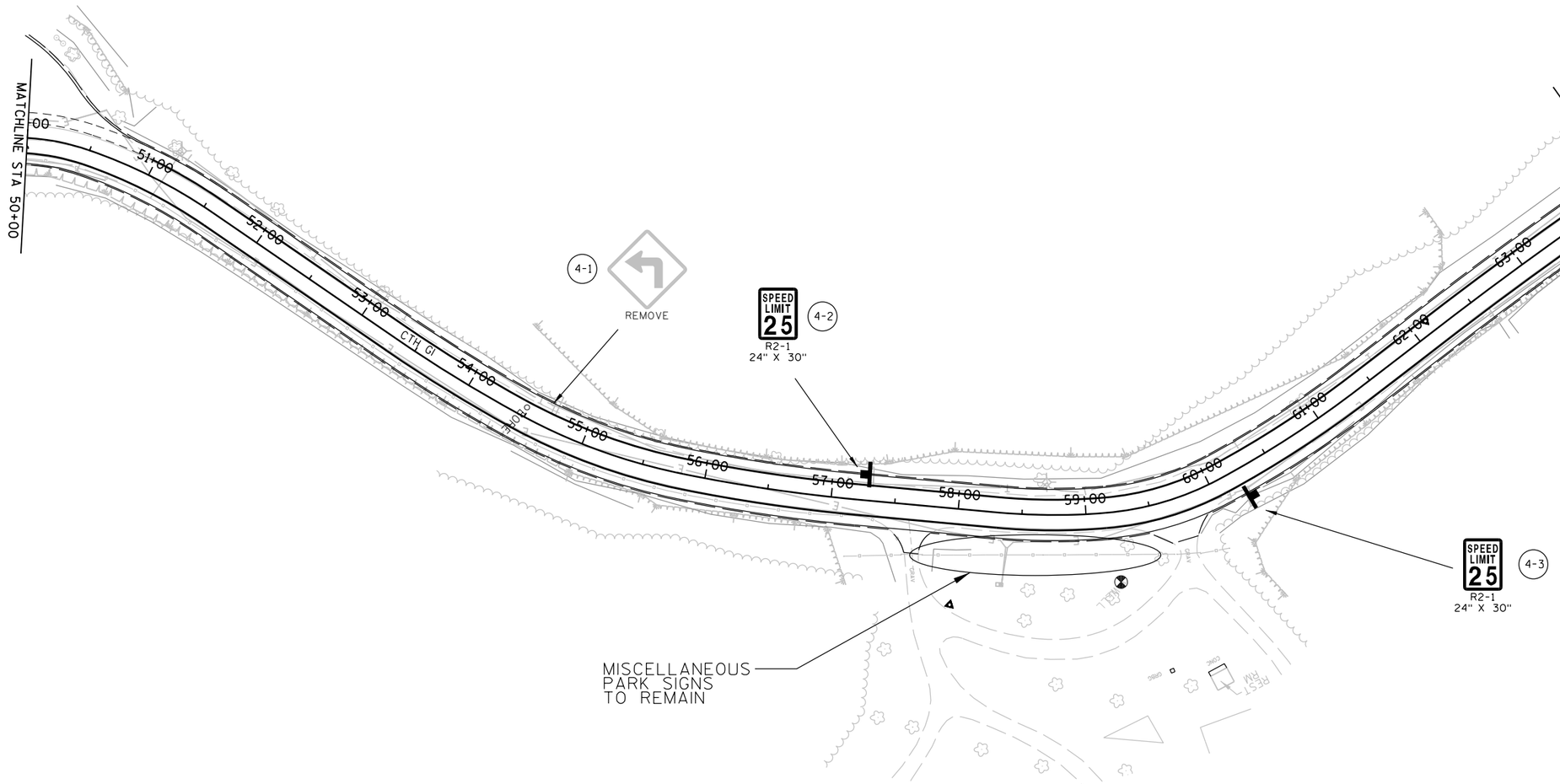


LEGEND

- SIGN(S) ON TUBULAR STEEL POST
- SIGN(S) ON LIGHT/SIGNAL POST
- SIGN(S) ON WOOD POST(S)
- (0-0) SIGN GROUP NUMBER
- ✳ PARK SIGN REMOVED BY OTHERS

PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	PERMANENT SIGNING	SHEET 51	E

2

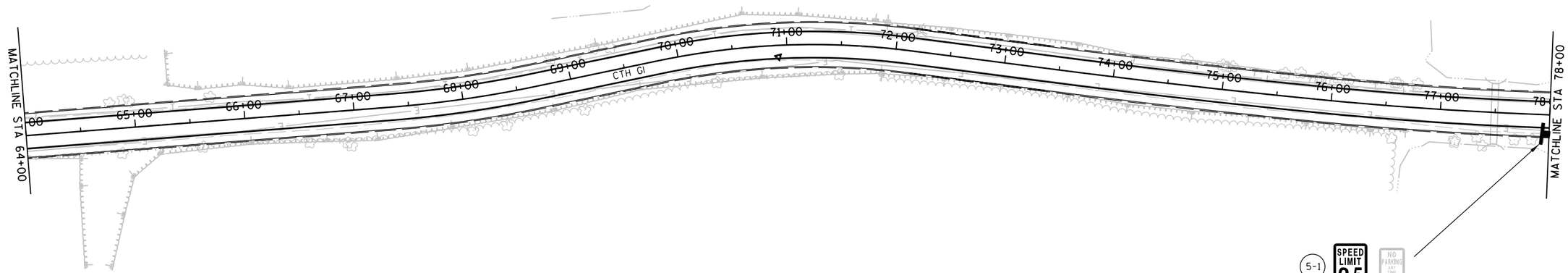


LEGEND

- SIGN(S) ON TUBULAR STEEL POST
- SIGN(S) ON LIGHT/SIGNAL POST
- SIGN(S) ON WOOD POST(S)
- (0-0) SIGN GROUP NUMBER
- PARK SIGN REMOVED BY OTHERS

PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	PERMANENT SIGNING	SHEET 52	E

2

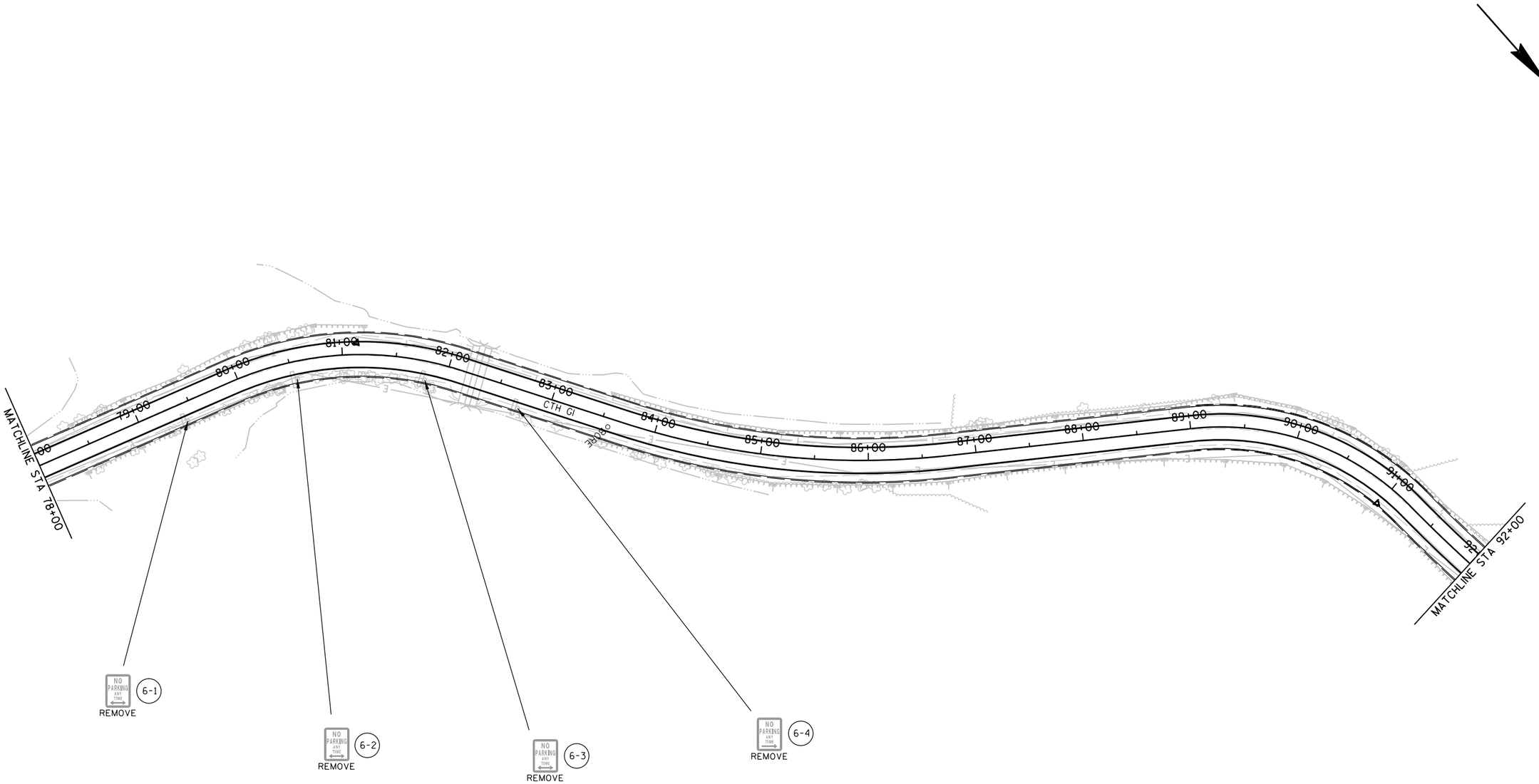


LEGEND

- SIGN(S) ON TUBULAR STEEL POST
- SIGN(S) ON LIGHT/SIGNAL POST
- SIGN(S) ON WOOD POST(S)
- (0-0) SIGN GROUP NUMBER
- PARK SIGN REMOVED BY OTHERS

PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	PERMANENT SIGNING	SHEET 53	E

2

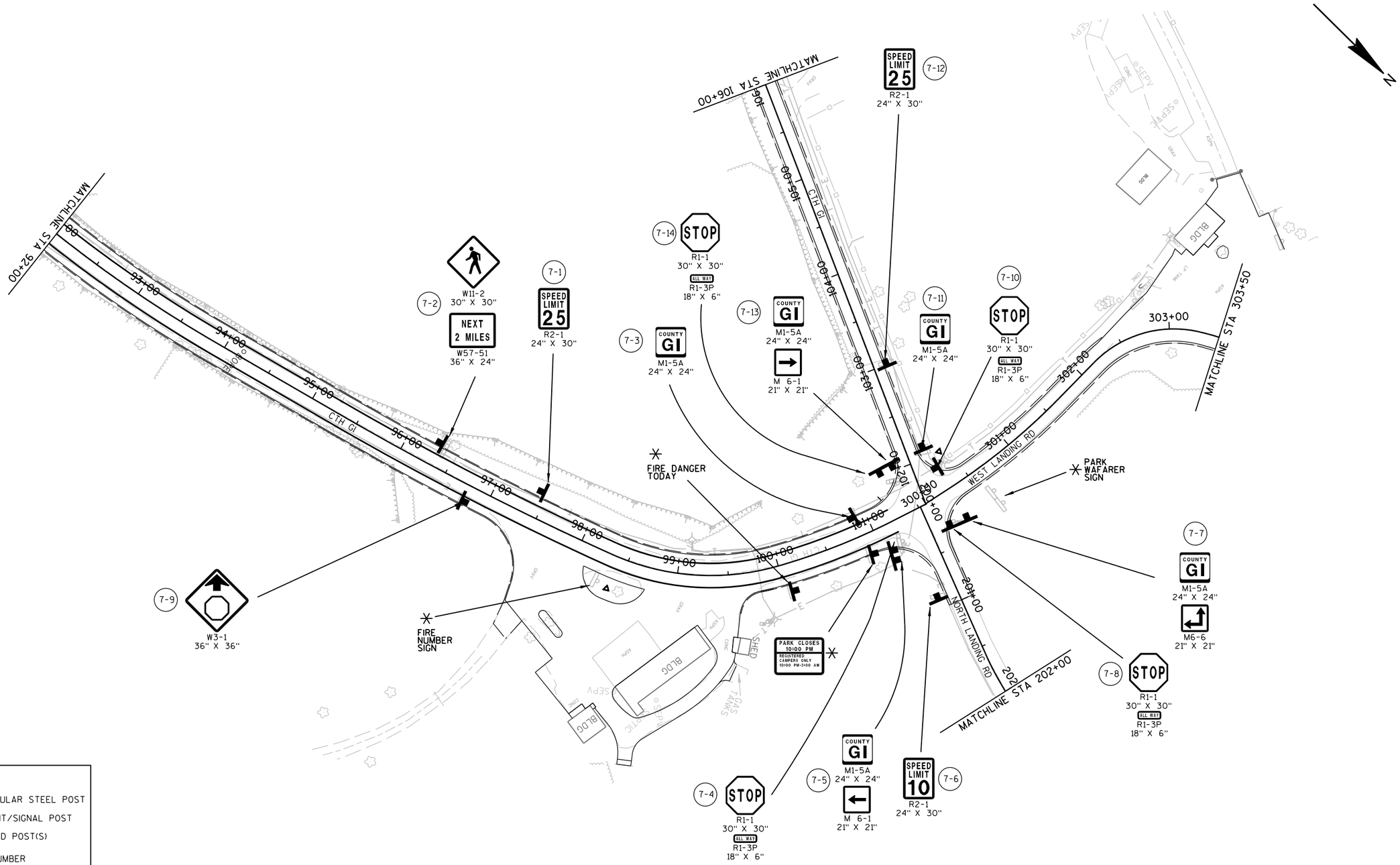


LEGEND

- SIGN(S) ON TUBULAR STEEL POST
- SIGN(S) ON LIGHT/SIGNAL POST
- SIGN(S) ON WOOD POST(S)
- (0-0) SIGN GROUP NUMBER
- PARK SIGN REMOVED BY OTHERS

PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	PERMANENT SIGNING	SHEET 54	E

2



LEGEND

- SIGN(S) ON TUBULAR STEEL POST
- SIGN(S) ON LIGHT/SIGNAL POST
- SIGN(S) ON WOOD POST(S)
- (0-0) SIGN GROUP NUMBER
- ✳ PARK SIGN REMOVED BY OTHERS

PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	PERMANENT SIGNING	SHEET 55	E

2

LEGEND

- SIGN(S) ON TUBULAR STEEL POST
- SIGN(S) ON LIGHT/SIGNAL POST
- SIGN(S) ON WOOD POST(S)
- (0-0) SIGN GROUP NUMBER
- PARK SIGN REMOVED BY OTHERS

NO SIGNS REQUIRED

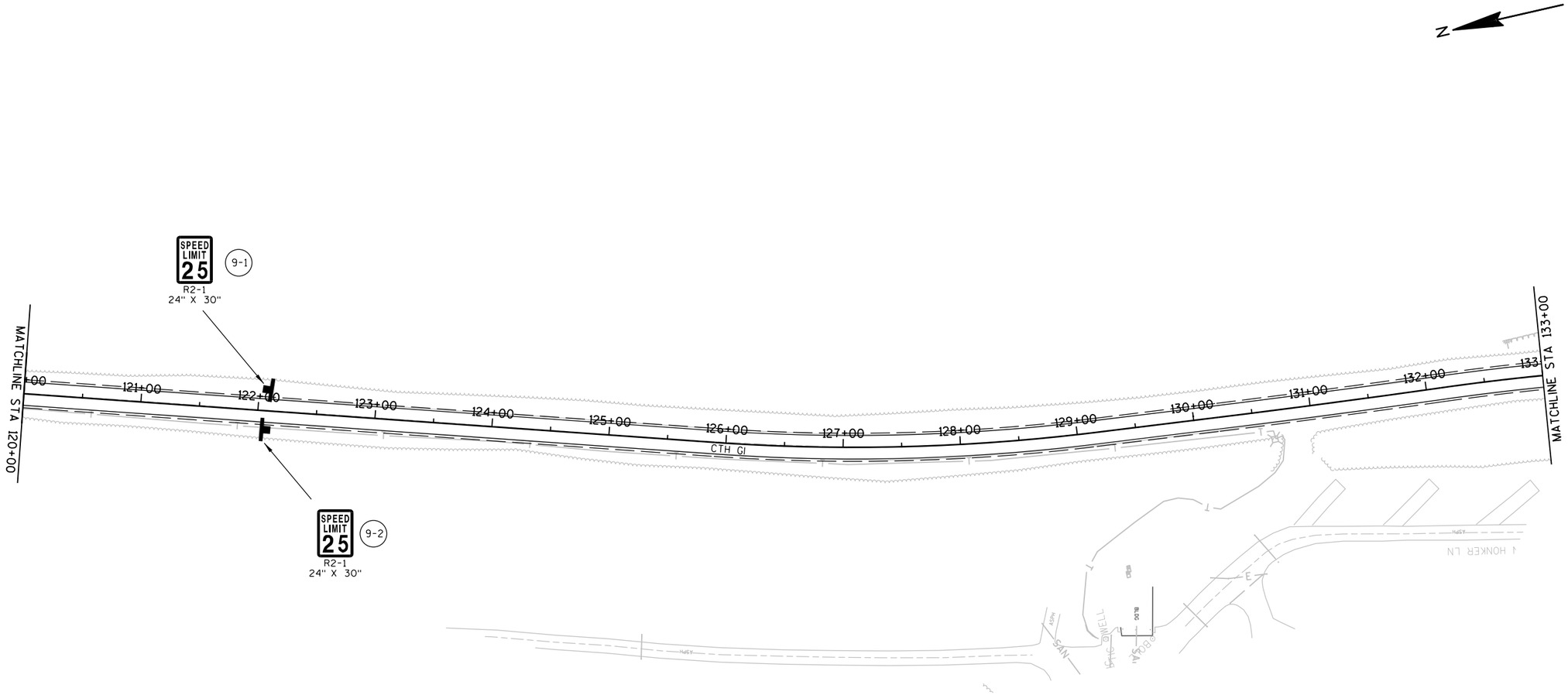


PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	PERMANENT SIGNING	SHEET	E

FILE NAME : P:\LACRO\15005 - Goose Island\cad\SNCTHGI08.dgn PLOT DATE : 9/11/2018 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2



LEGEND

- SIGN(S) ON TUBULAR STEEL POST
- SIGN(S) ON LIGHT/SIGNAL POST
- SIGN(S) ON WOOD POST(S)
- (0-0) SIGN GROUP NUMBER
- PARK SIGN REMOVED BY OTHERS

PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	PERMANENT SIGNING	SHEET 57	E

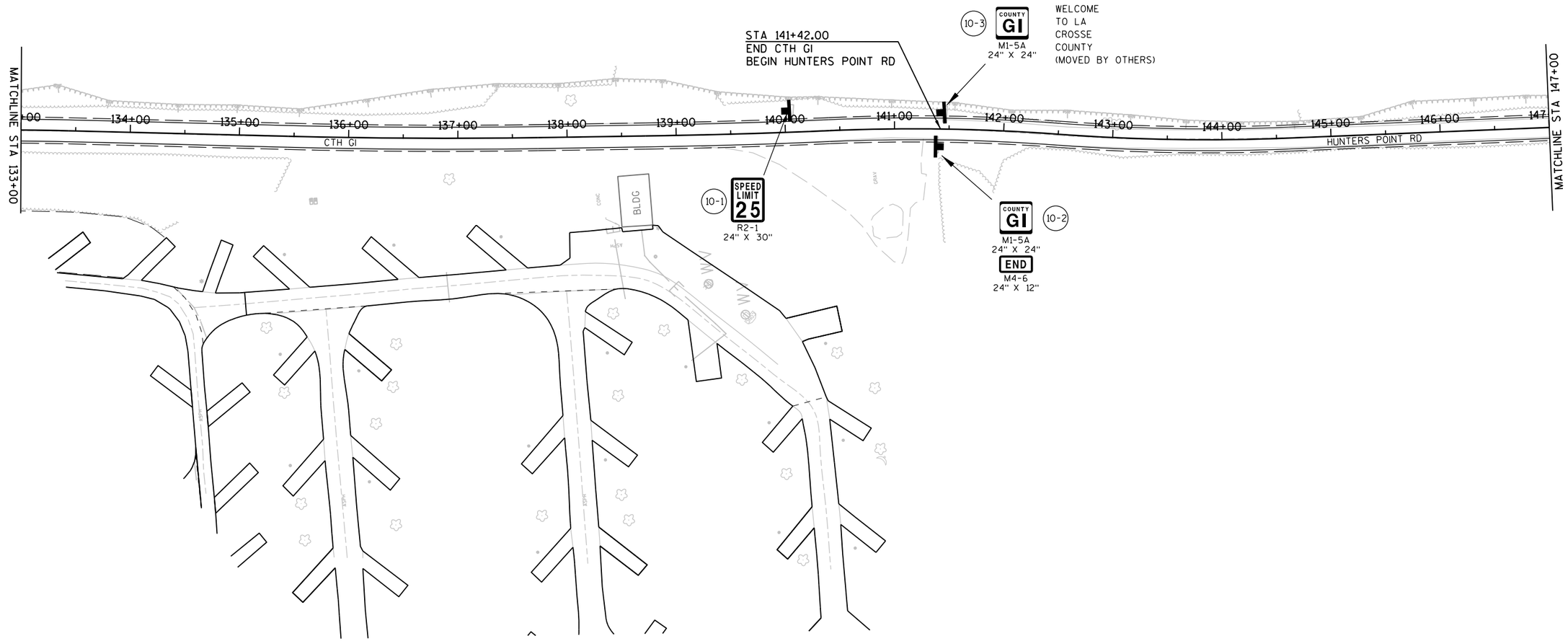
2

2

LEGEND

- SIGN(S) ON TUBULAR STEEL POST
- SIGN(S) ON LIGHT/SIGNAL POST
- SIGN(S) ON WOOD POST(S)
- (0-0) SIGN GROUP NUMBER
- PARK SIGN REMOVED BY OTHERS

N



PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	PERMANENT SIGNING	SHEET 58	E

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 OF 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 OF 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.

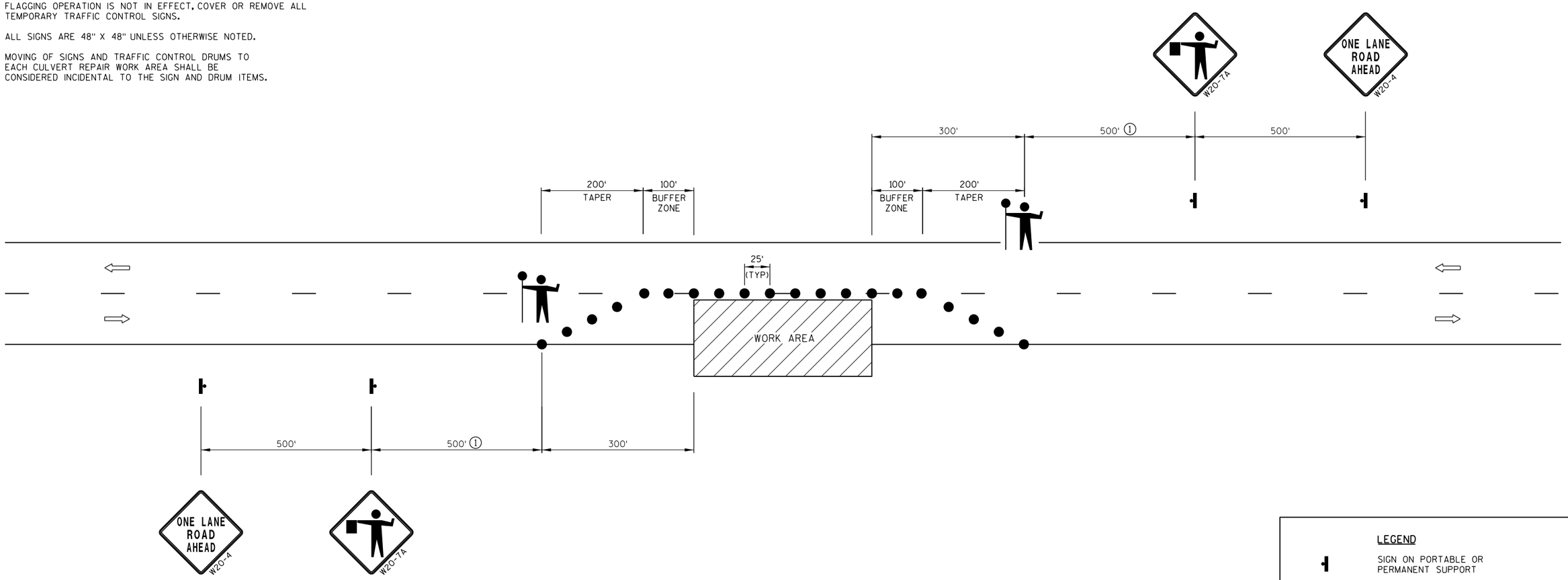
FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

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

MOVING OF SIGNS AND TRAFFIC CONTROL DRUMS TO EACH CULVERT REPAIR WORK AREA SHALL BE CONSIDERED INCIDENTAL TO THE SIGN AND DRUM ITEMS.



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.



① SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT EACH AREA OR AS APPROVED BY THE ENGINEER.

LEGEND

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

2

TRAFFIC CONTROL 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 OF 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 OF 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.

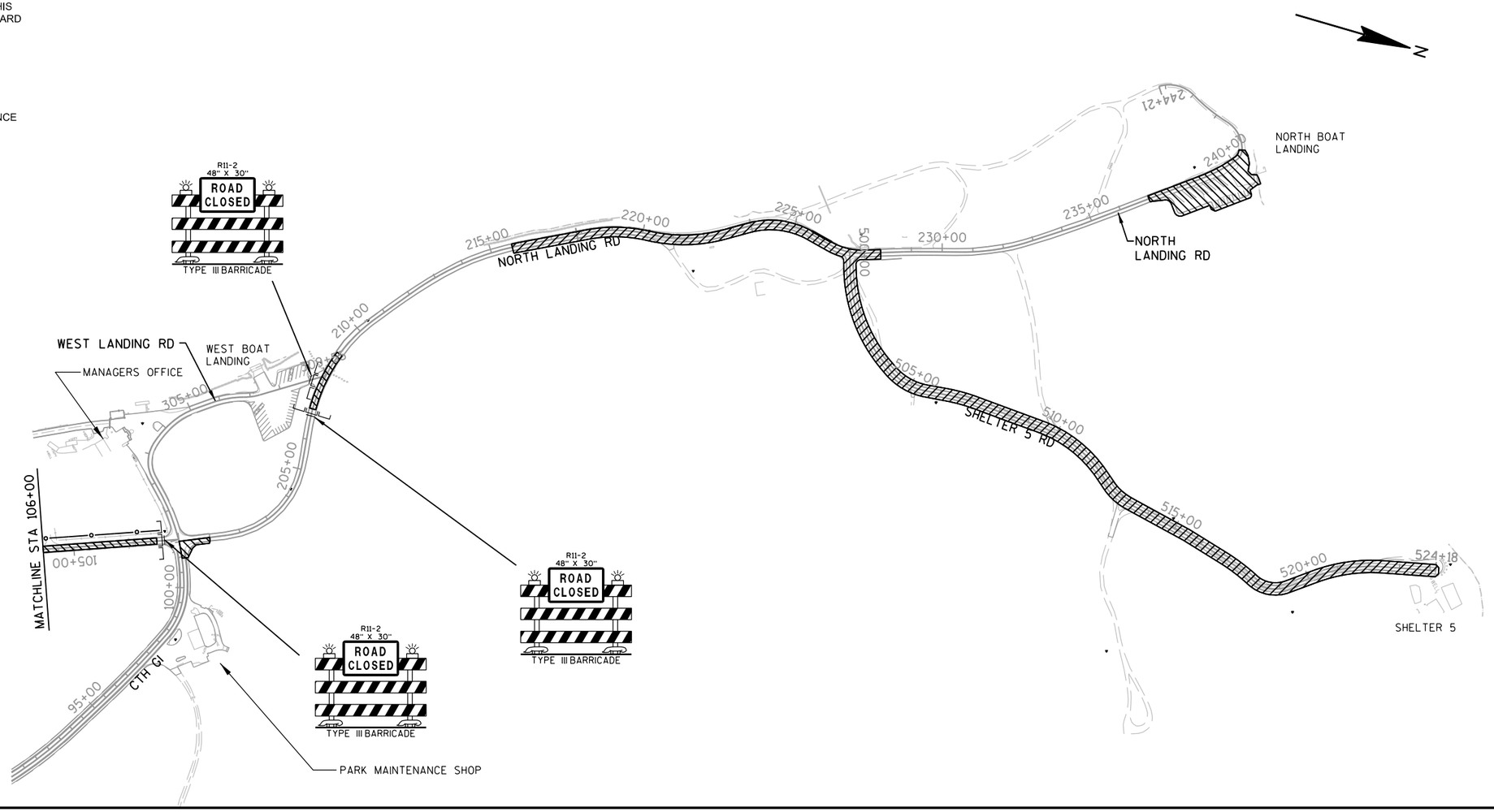
MOVING OF SIGNS AND TRAFFIC CONTROL DRUMS TO EACH CULVERT REPAIR WORK AREA SHALL BE CONSIDERED INCIDENTAL TO THE SIGN AND DRUM ITEMS.NOTES:

FOR ROAD CLOSURE BARRICADE DETAIL, SEE SDD BARRICADES AND SIGNS FOR ROAD CLOSURES.

FENCE SAFETY LOCATION IS APPROXIMATE. ADJUST IN FIELD AS NECESSARY TO PREVENT PEDESTRIANS (e.g. CHILDREN) FROM ENTERING WORK ZONE. SEE SDD TRAFFIC CONTROL, PEDESTRIAN ACCOMODATIONS.

CONSRUCT CTH GI AS OPEN TO TRAFFIC, LANE CLOSURE WITH FLAGGING OPERATION FROM STH 35 TO THE NORTH LANDING ROAD INTERSECTION.

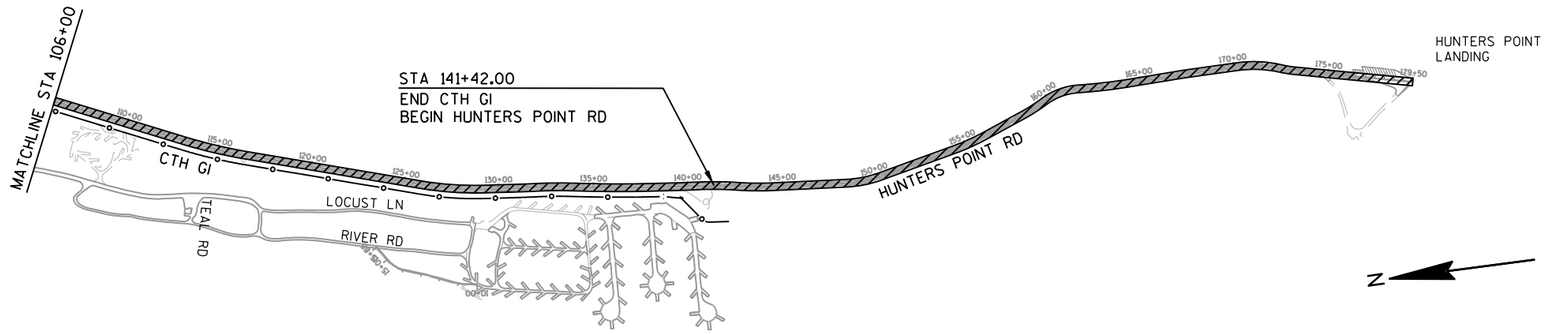
ALTERNATE ACCESS AND USE OF WEST BOAT LANDING AND NORTH BOAT LANDING. DO NOT CLOSE SIMULTANEOUSLY.



STAGE 1 NOTES:

CLOSE NORTH LANDING ROAD TO ALL TRAFFIC AT THE CTH GI INTERSECTION AND THE WEST LANDING ROAD PARKING LOT INTERSECTION.

CONSTRUCT SHELTER 5 ROAD, NORTH LANDING ROAD AND THE NORTH LANDING ROAD/WEST LANDING ROAD INTERSECTION CLOSED TO ALL TRAFFIC.



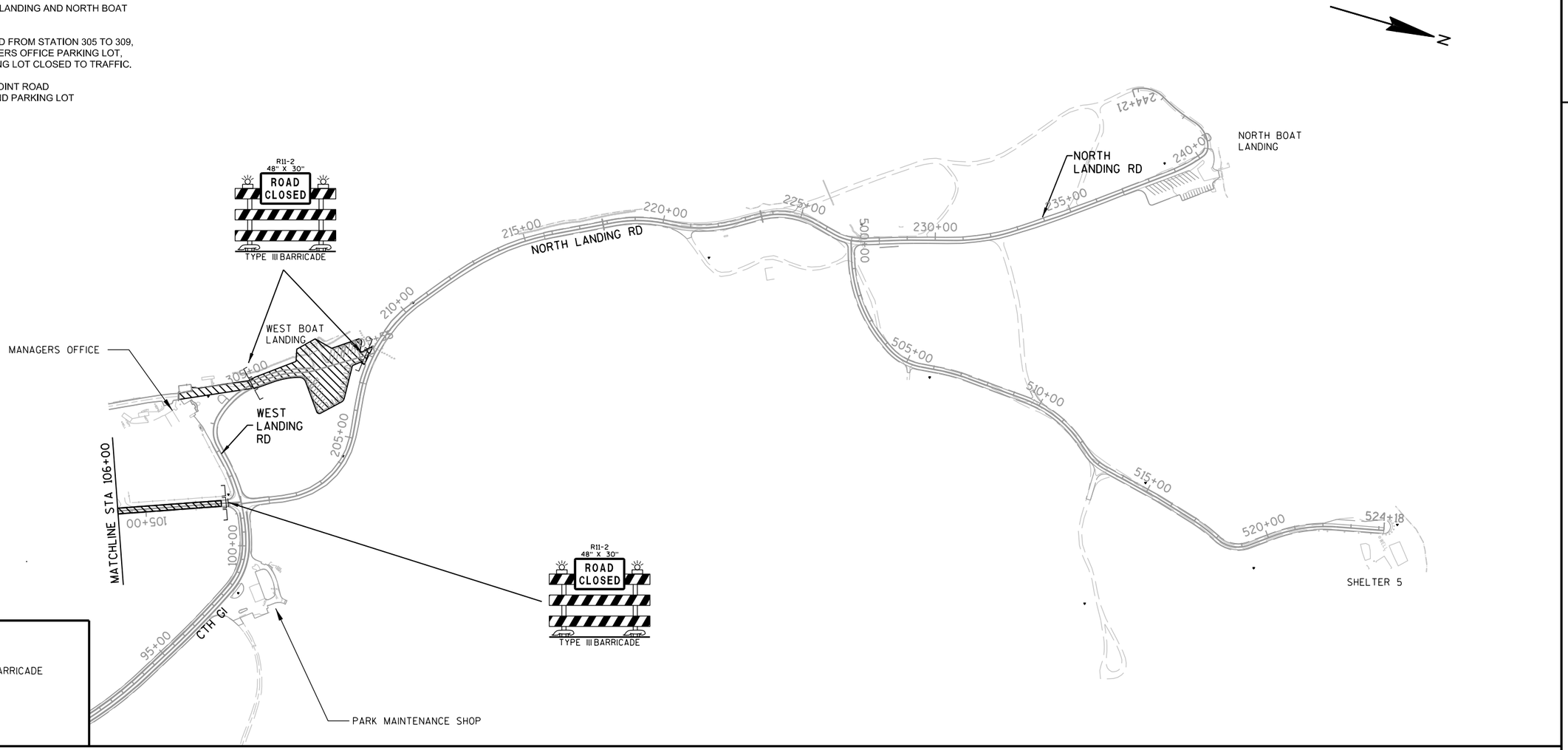
PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	PARK TRAFFIC CONTROL STAGE 1	SHEET 60	E

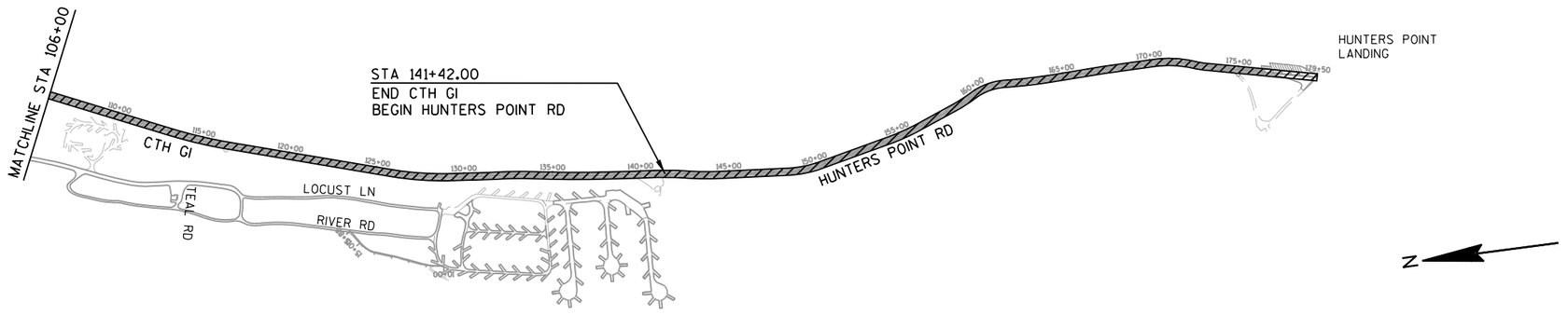
2

ALLOW ACCESS TO NORTH BOAT LANDING AND NORTH BOAT LANDING ROAD.

CONSTRUCT WEST LANDING ROAD FROM STATION 305 TO 309, THE NORTH HALF OF THE MANAGERS OFFICE PARKING LOT, WEST BOAT LANDING AND PARKING LOT CLOSED TO TRAFFIC.

CONTINUE WORK ON HUNTERS POINT ROAD AND HUNTERS POINT LANDING AND PARKING LOT





PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	PARK TRAFFIC CONTROL STAGE 2	SHEET 61	E

STAGE 3 NOTES:

DO NOT BEGIN STAGE 3 UNTIL AFTER OCTOBER 1, 2019 WHEN PARK IS CLOSED TO PUBLIC.

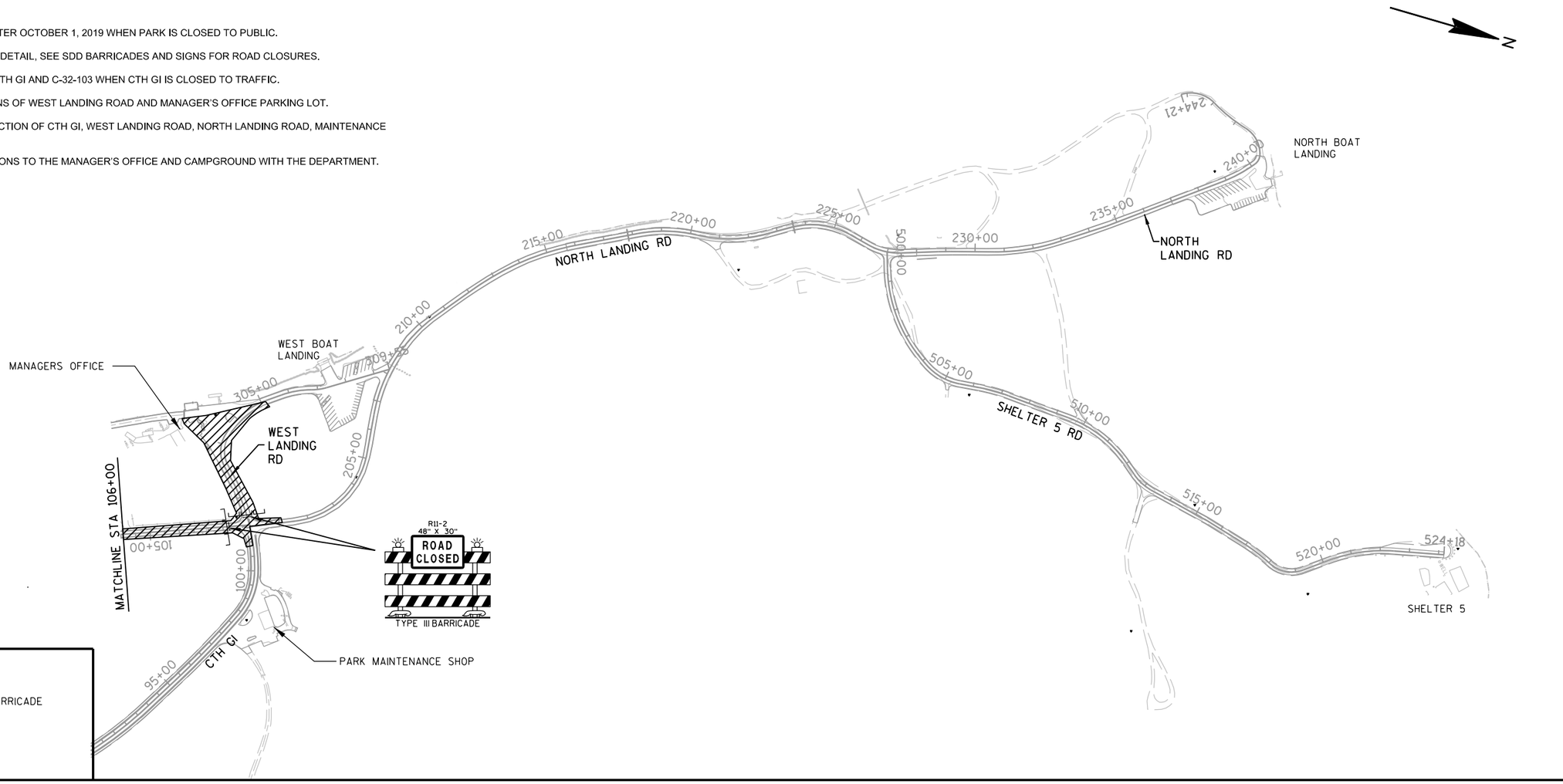
FOR ROAD CLOSURE BARRICADE DETAIL, SEE SDD BARRICADES AND SIGNS FOR ROAD CLOSURES.

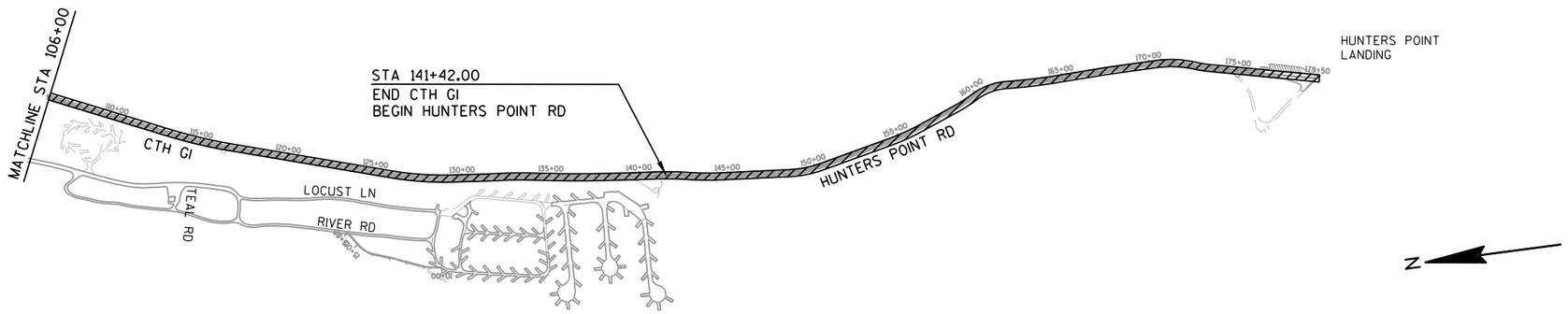
CONSTRUCT ALL CULVERTS ON CTH GI AND C-32-103 WHEN CTH GI IS CLOSED TO TRAFFIC.

CONSTRUCT REMAINING PORTIONS OF WEST LANDING ROAD AND MANAGER'S OFFICE PARKING LOT.

CONSTRUCT THE 4 WAY INTERSECTION OF CTH GI, WEST LANDING ROAD, NORTH LANDING ROAD, MAINTENANCE SHOP PARKING LOT AND CTH GI3

COORDINATE ACCESS RESTRICTIONS TO THE MANAGER'S OFFICE AND CAMPGROUND WITH THE DEPARTMENT.



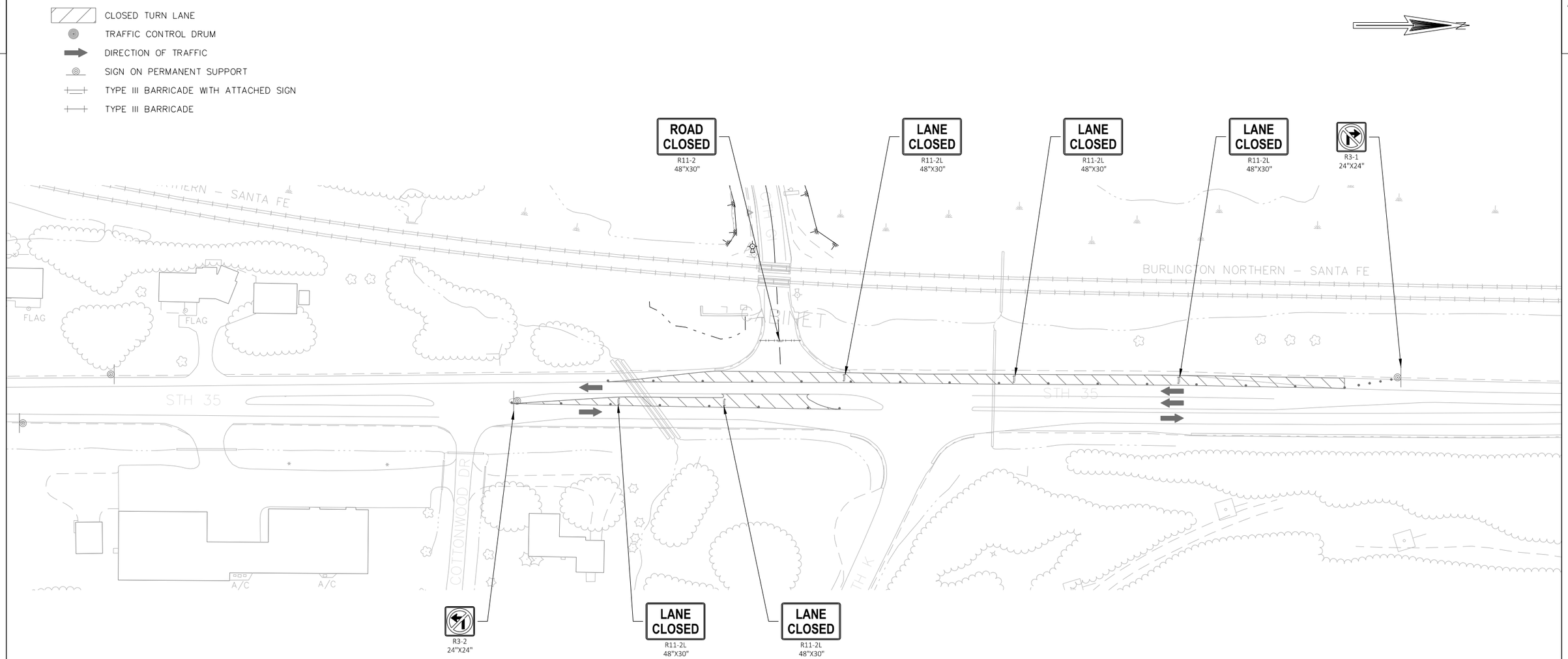


PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	PARK TRAFFIC CONTROL STAGE 3	SHEET 62	E

2

TRAFFIC CONTROL LEGEND

- CLOSED TURN LANE
- TRAFFIC CONTROL DRUM
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE III BARRICADE



PROJECT NO: 5085–00–70	HWY: CTH GI	COUNTY: LA CROSSE	TRAFFIC CONTROL	SHEET 63	E

FILE NAME : P:\LACRO\15005 – GOOSE ISLAND\CAD\TC35.DWG

SHEET NAME: TRAFFIC CONTROL OVERVIEW

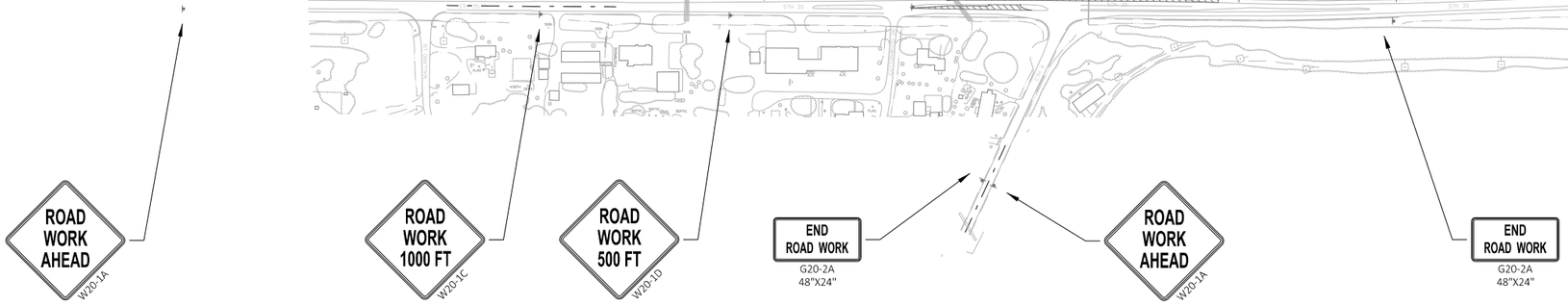
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2

TRAFFIC CONTROL LEGEND

- CLOSED TURN LANE
- TRAFFIC CONTROL DRUM
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE III BARRICADE

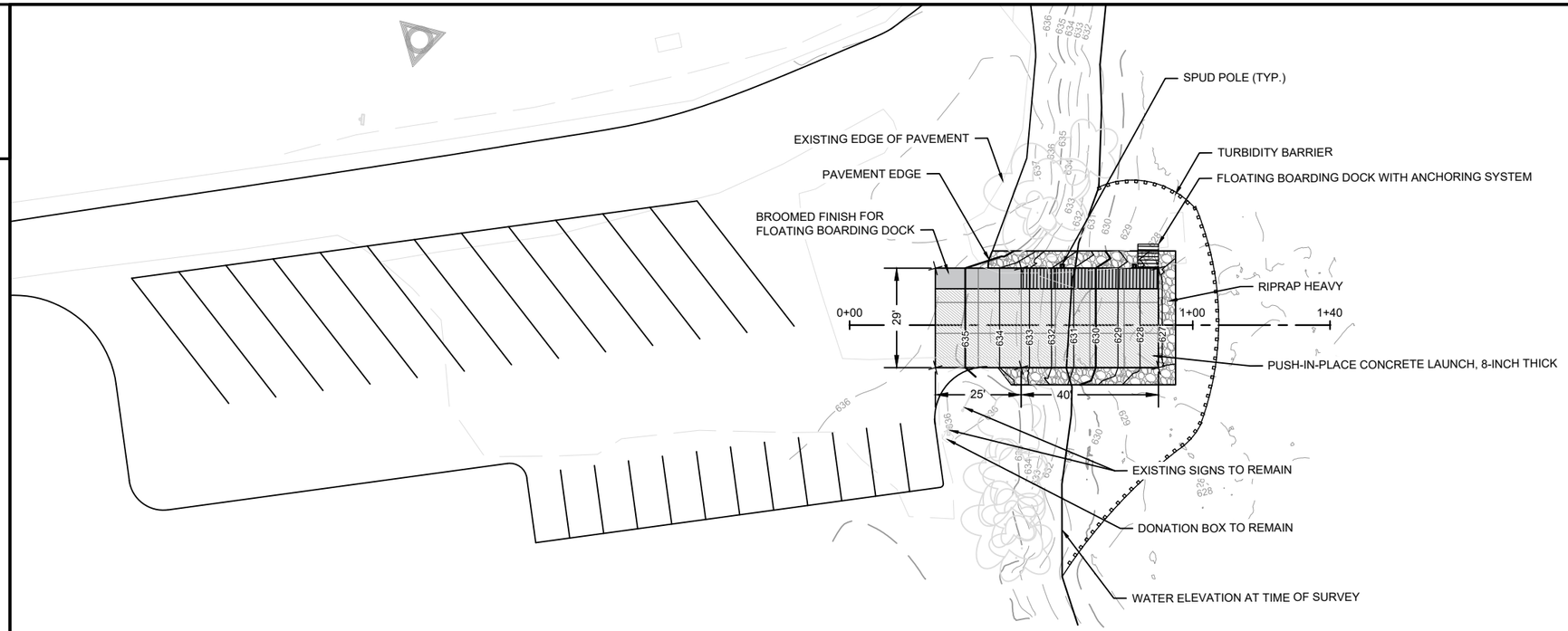


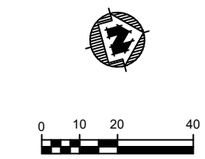


PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	TRAFFIC CONTROL OVERVIEW	SHEET 64	E

FILE NAME : P:\LACRO\15005 - GOOSE ISLAND\CAD\TC35.DWG

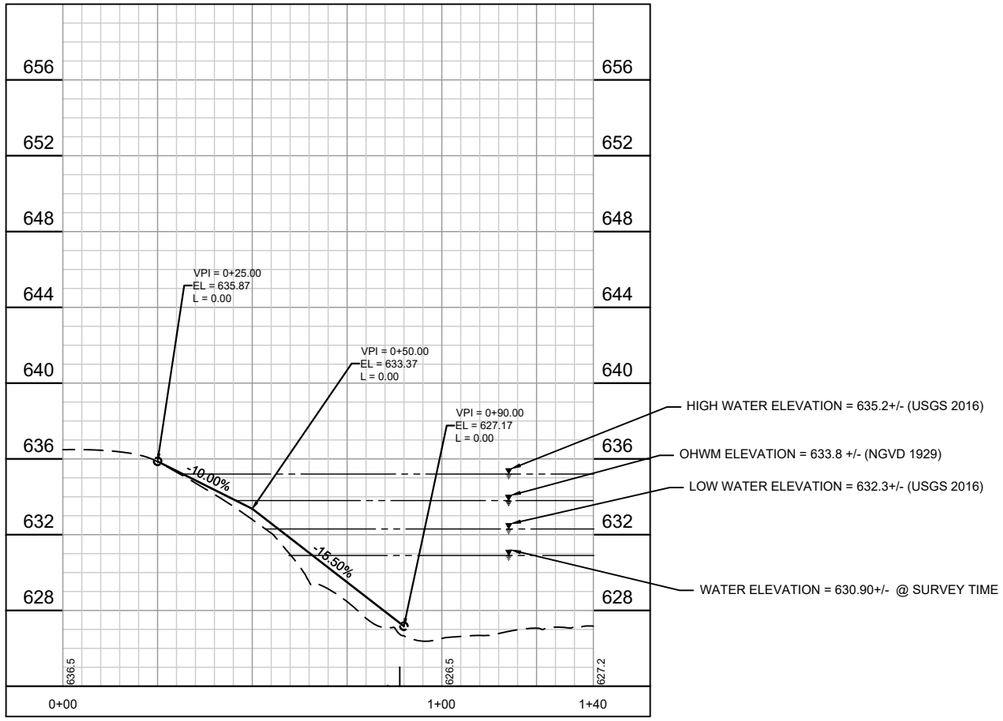
SHEET NAME: TRAFFIC CONTROL OVERVIEW





NOTES:

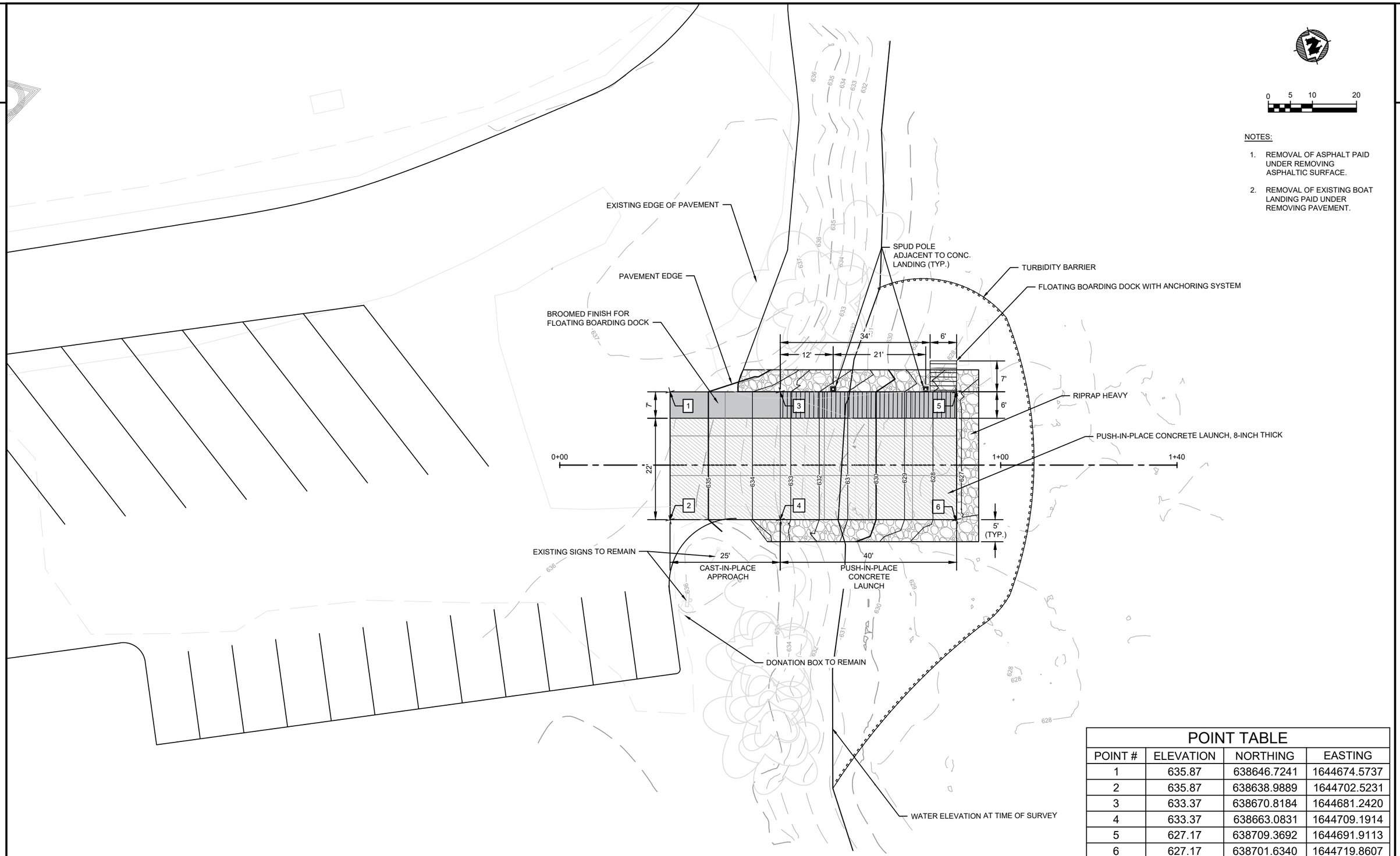
1. REMOVAL OF ASPHALT PAID UNDER REMOVING ASPHALTIC SURFACE.
2. REMOVAL OF EXISTING BOAT LANDING PAID UNDER REMOVING PAVEMENT.



PROJECT NO: 5085-00-00	HWY: CTH GI	COUNTY: LA CROSSE	PLAN AND PROFILE: NORTH BOAT LANDING	SHEET 65	E

FILE NAME : P:\13500S\13540S\13544\13544009\CADD\CONSTRUCTION DOCUMENTS\PLAN AND PROFILE NORTH RAMP.DWG
XXXX-XX-XX XXX XXX ##########
PLOT DATE : 10/31/2018 1:17 PM PLOT BY : KELSEY HERMANN PLOT NAME :
PLOT SCALE : ##########
LAYOUT NAME - NR1

2



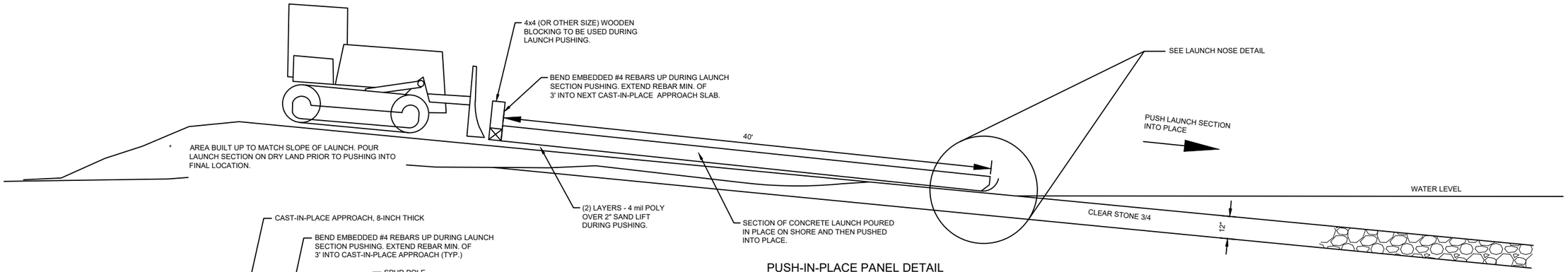
NOTES:

1. REMOVAL OF ASPHALT PAID UNDER REMOVING ASPHALTIC SURFACE.
2. REMOVAL OF EXISTING BOAT LANDING PAID UNDER REMOVING PAVEMENT.

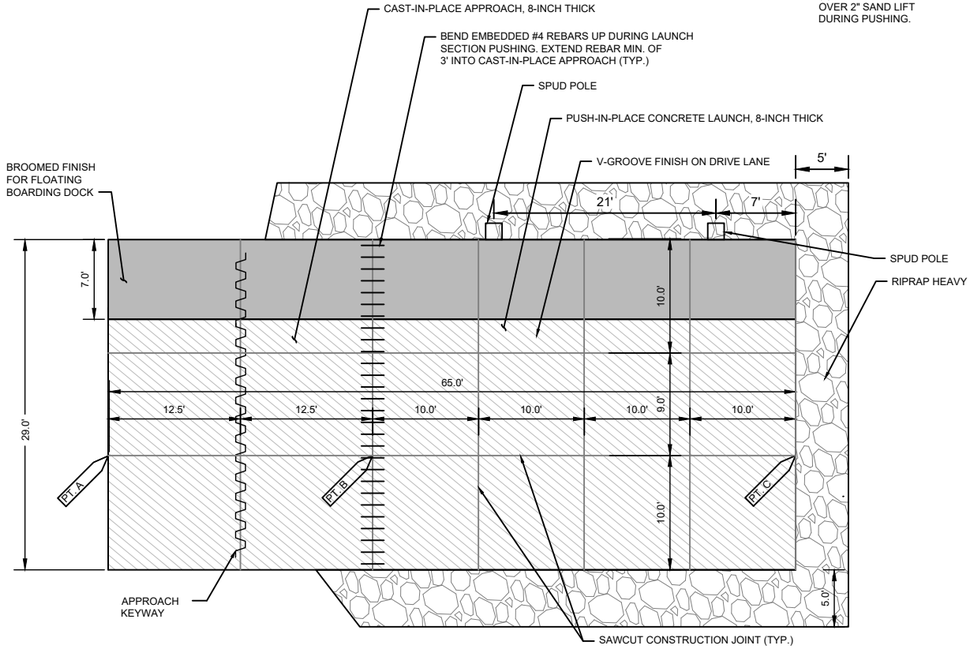
POINT TABLE

POINT #	ELEVATION	NORTHING	EASTING
1	635.87	638646.7241	1644674.5737
2	635.87	638638.9889	1644702.5231
3	633.37	638670.8184	1644681.2420
4	633.37	638663.0831	1644709.1914
5	627.17	638709.3692	1644691.9113
6	627.17	638701.6340	1644719.8607

PROJECT NO: 5085-00-00	HWY: CTH GI	COUNTY: LA CROSSE	SITE PLAN: NORTH BOAT LANDING	SHEET 66	E



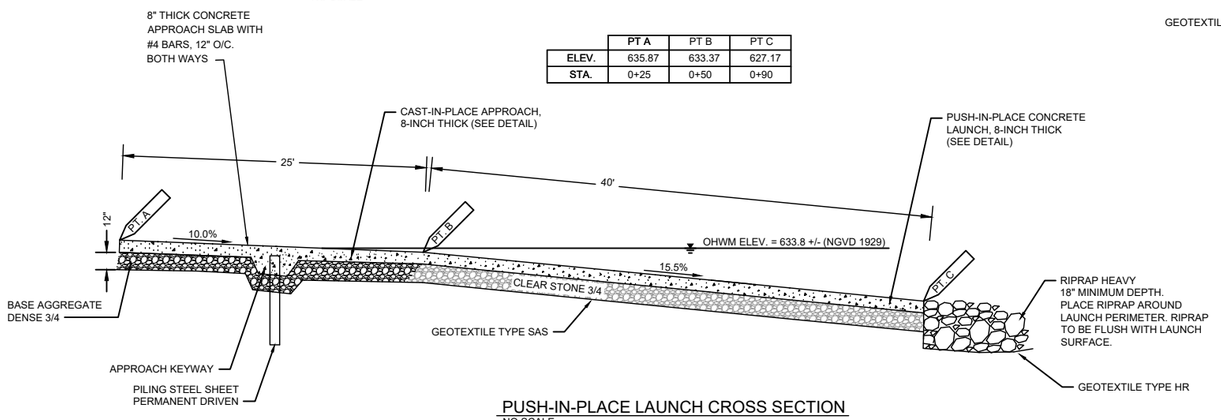
PUSH-IN-PLACE PANEL DETAIL
NO SCALE



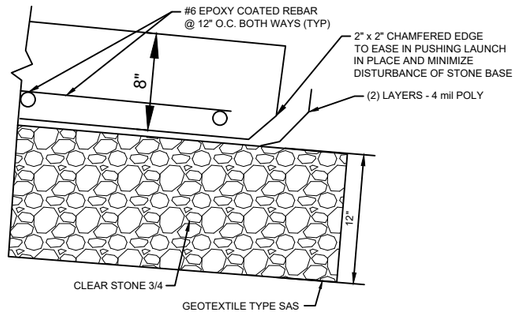
NOTE: ALL CONCRETE TO INCLUDE 3 LBS./C.Y. POLY FIBER MESH

PUSH-IN-PLACE LAUNCH PLAN VIEW
NO SCALE

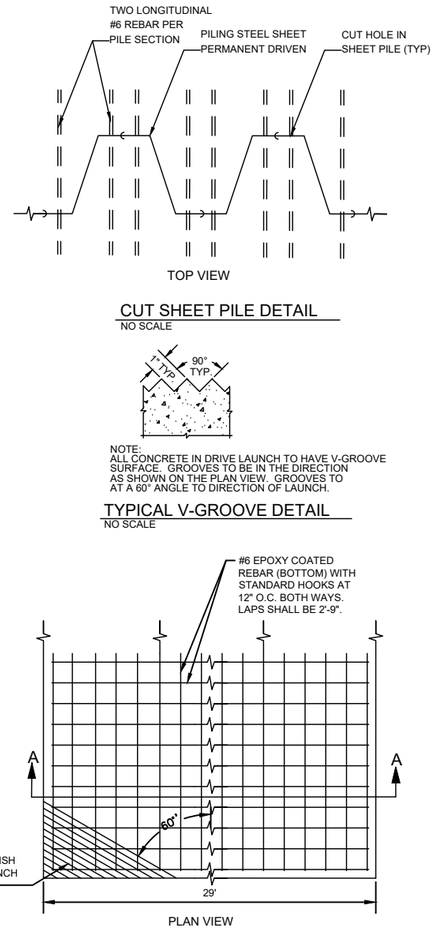
	PT A	PT B	PT C
ELEV.	635.87	633.37	627.17
STA.	0+25	0+50	0+90



PUSH-IN-PLACE LAUNCH CROSS SECTION
NO SCALE



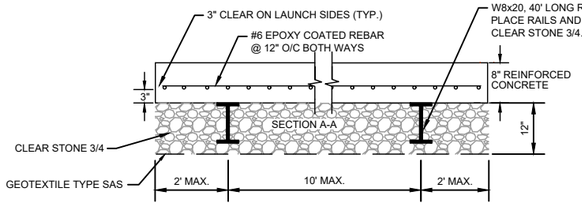
LAUNCH NOSE DETAIL
NO SCALE



CUT SHEET PILE DETAIL
NO SCALE

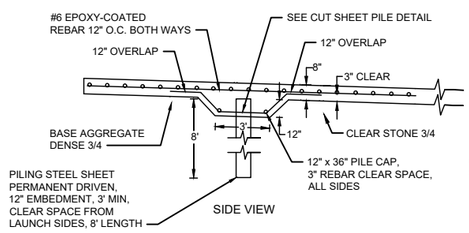
NOTE:
ALL CONCRETE IN DRIVE LAUNCH TO HAVE V-GROOVE SURFACE. GROOVES TO BE IN THE DIRECTION AS SHOWN ON THE PLAN VIEW. GROOVES TO AT A 60° ANGLE TO DIRECTION OF LAUNCH.

TYPICAL V-GROOVE DETAIL
NO SCALE

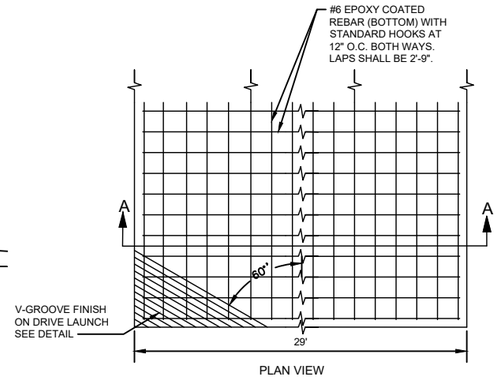


NOTE: PROVIDE CLEAR STONE UNDER RAILS. RAILS ARE SPECIFIED FOR IMPROVED CONSTRUCTABILITY AND ARE NOT INTENDED TO CARRY LOADS. PROVIDE FLUSH BASE COURSE TO PREVENT SETTLEMENT.

PUSH-IN-PLACE LAUNCH REBAR CROSS SECTION
NO SCALE



APPROACH KEYWAY
NO SCALE



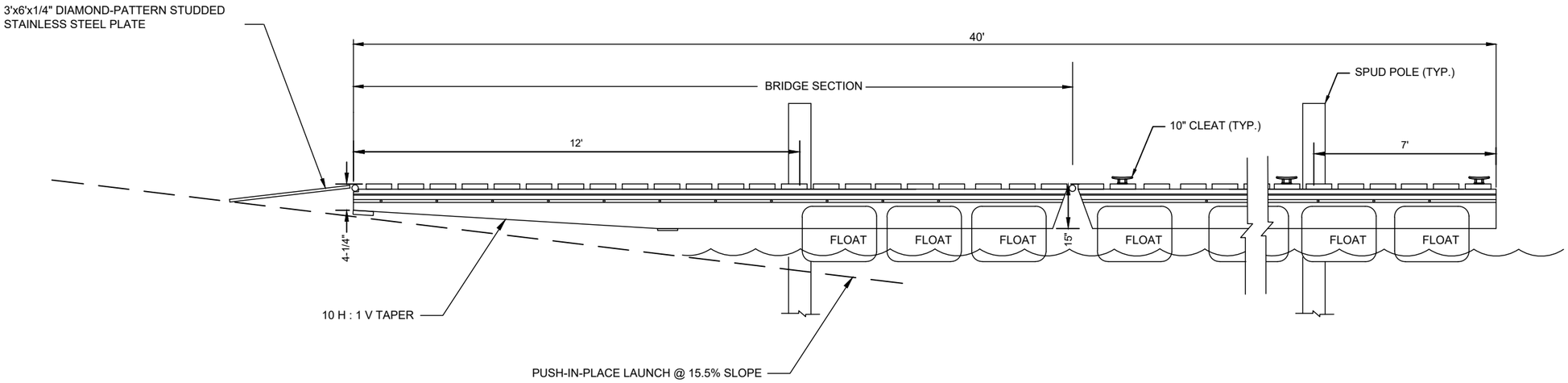
PUSH-IN-PLACE LAUNCH REBAR PLAN VIEW
NO SCALE

PROJECT NO: 5085-00-00	HWY: CTH GI	COUNTY: LA CROSSE	RAMP DETAILS: NORTH BOAT LANDING	SHEET 67	E

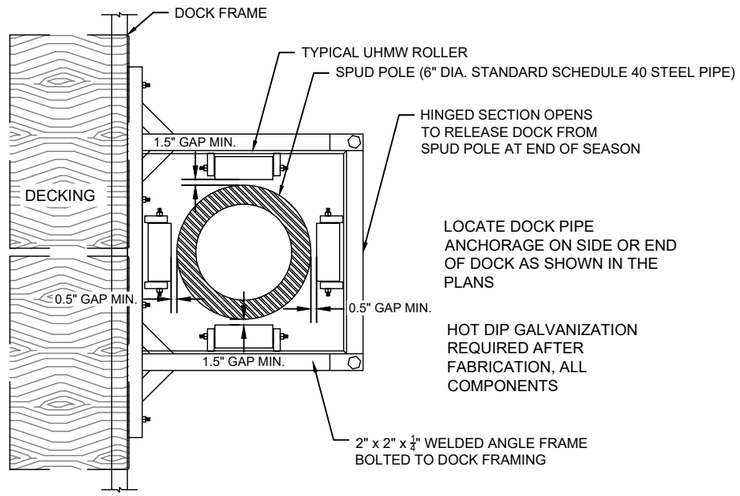
FILE NAME : P:\13500S\13540S\13544\13544009\CADD\CONSTRUCTION DOCUMENTS\PLAN AND PROFILE NORTH RAMP.DWG
PLOT DATE : 10/31/2018 1:17 PM
PLOT BY : KELSEY HERMANN
PLOT NAME :
XXXX-XX-XX XXX XXX ##
PLOT SCALE : ##########
LAYOUT NAME - NR3

2

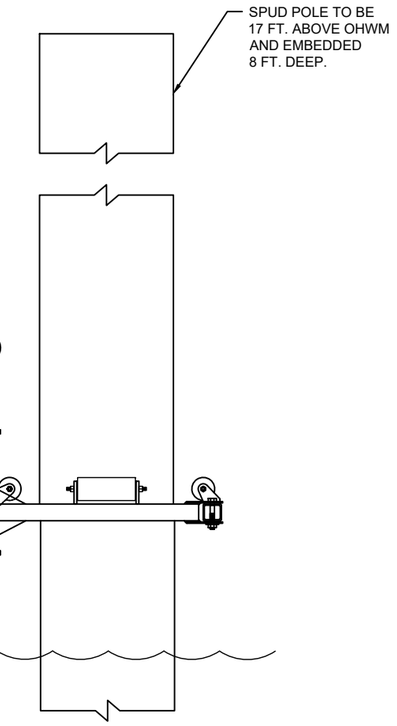
- BROOM FINISHED SURFACE OF CONCRETE SHORE INTERFACE PERPENDICULAR TO DIRECTION OF TRAVEL.
- PROVIDE 1" BEVEL ALONG BOTH SIDE EDGES.
- DOCK TO BE 6-FT WIDE



FLOATING DOCK DETAIL
SIDE VIEW NTS

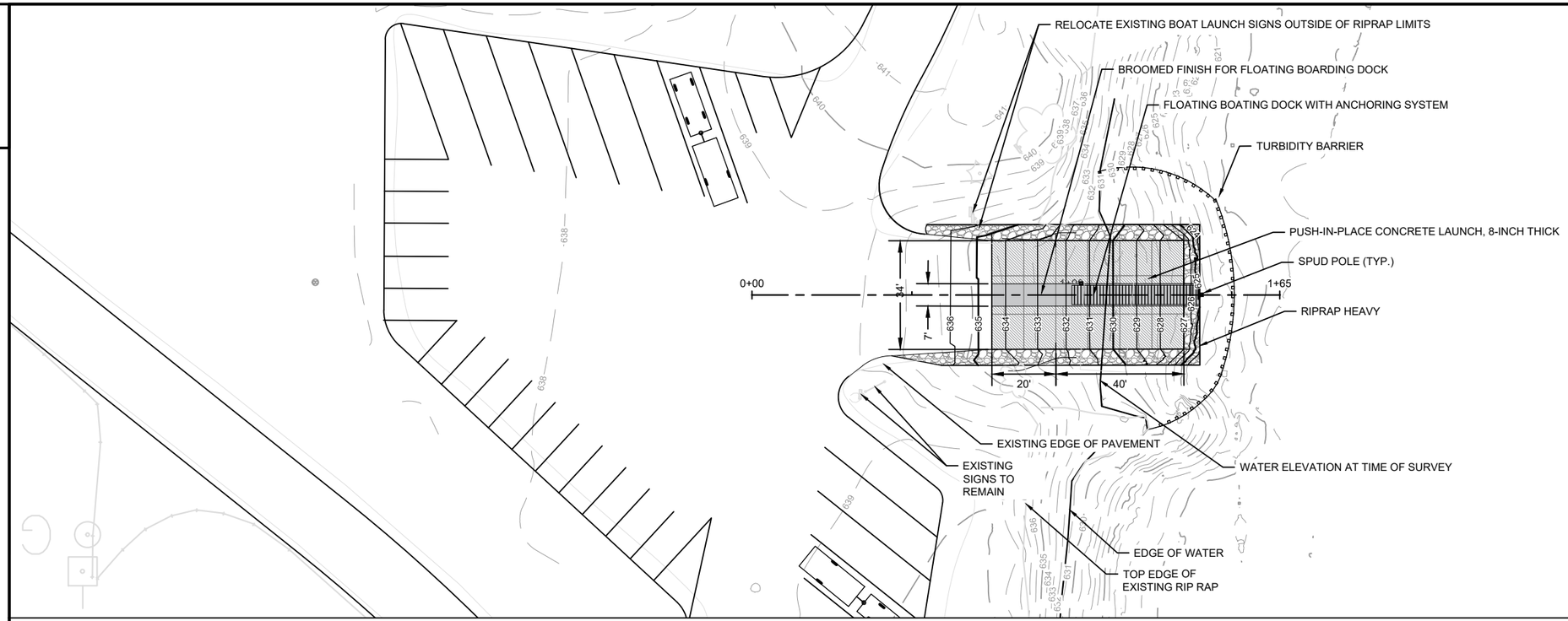


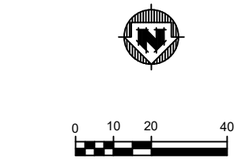
TYP. DOCK PIPE ANCHORAGE
PLAN VIEW NTS



TYP. DOCK PIPE ANCHORAGE
SIDE VIEW NTS

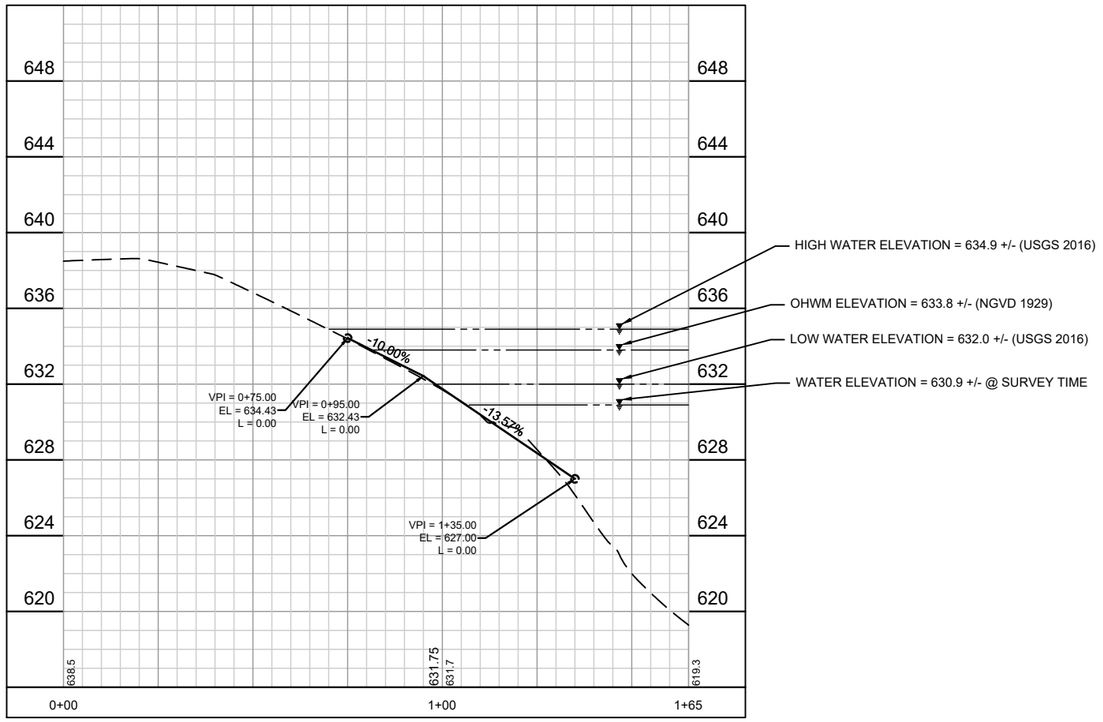
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NOTES:

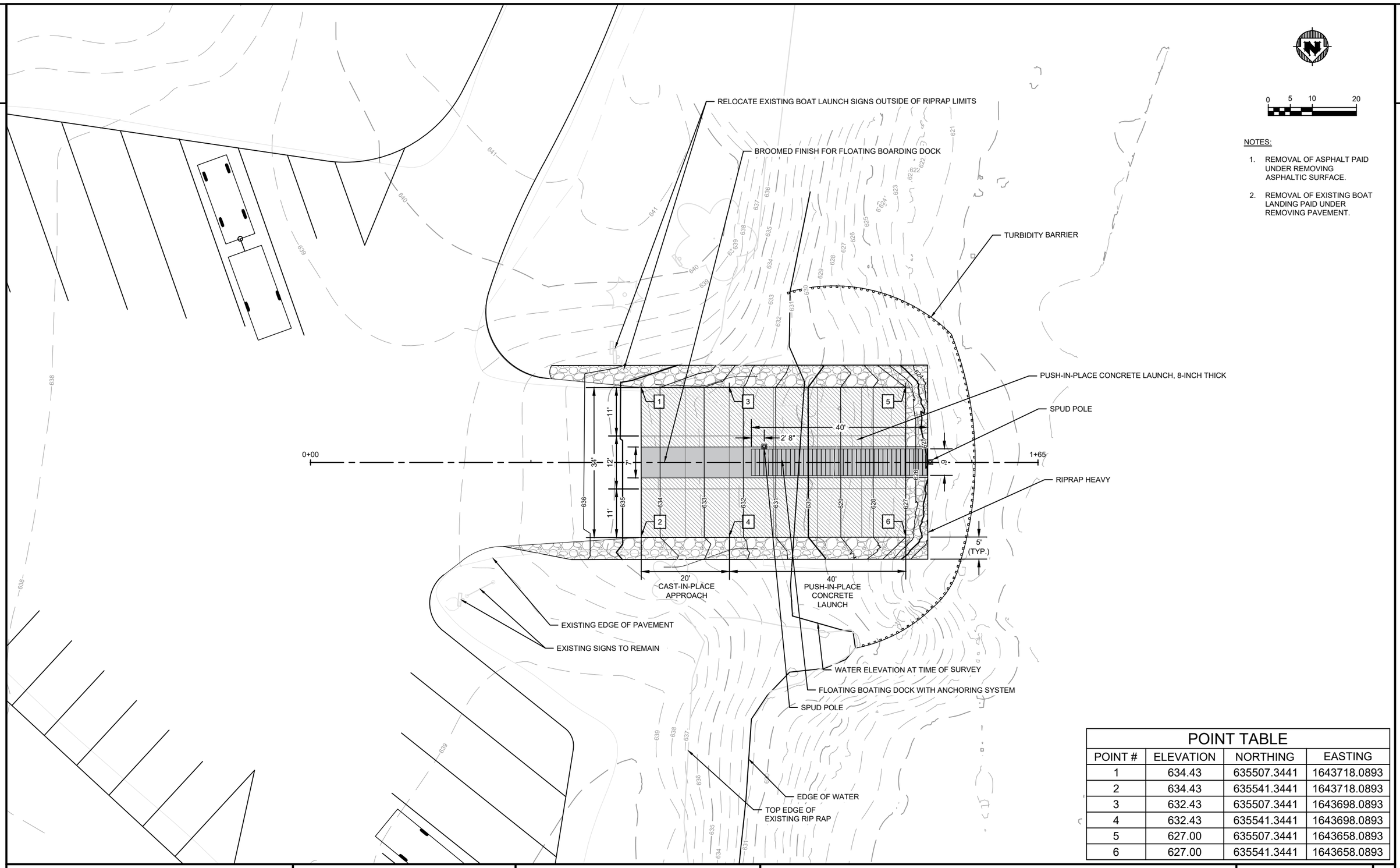
1. REMOVAL OF ASPHALT PAID UNDER REMOVING ASPHALTIC SURFACE.
2. REMOVAL OF EXISTING BOAT LANDING PAID UNDER REMOVING PAVEMENT.



PROJECT NO: 5085-00-00	HWY: CTH GI	COUNTY: LA CROSSE	PLAN AND PROFILE: WEST BOAT LANDING	SHEET 69	E

FILE NAME : P:\13500S\13540S\13544\13544009\CADD\CONSTRUCTION DOCUMENTS\PLAN AND PROFILE MIDDLE RAMP.DWG
XXXX-XX-XX XXX XXX ##
PLOT DATE : 10/31/2018 1:17 PM PLOT BY : KELSEY HERMANN PLOT NAME :
WISDOT/CADDS SHEET 42
LAYOUT NAME - MR1
PLOT SCALE : #########

2



NOTES:

1. REMOVAL OF ASPHALT PAID UNDER REMOVING ASPHALTIC SURFACE.
2. REMOVAL OF EXISTING BOAT LANDING PAID UNDER REMOVING PAVEMENT.

POINT TABLE			
POINT #	ELEVATION	NORTHING	EASTING
1	634.43	635507.3441	1643718.0893
2	634.43	635541.3441	1643718.0893
3	632.43	635507.3441	1643698.0893
4	632.43	635541.3441	1643698.0893
5	627.00	635507.3441	1643658.0893
6	627.00	635541.3441	1643658.0893

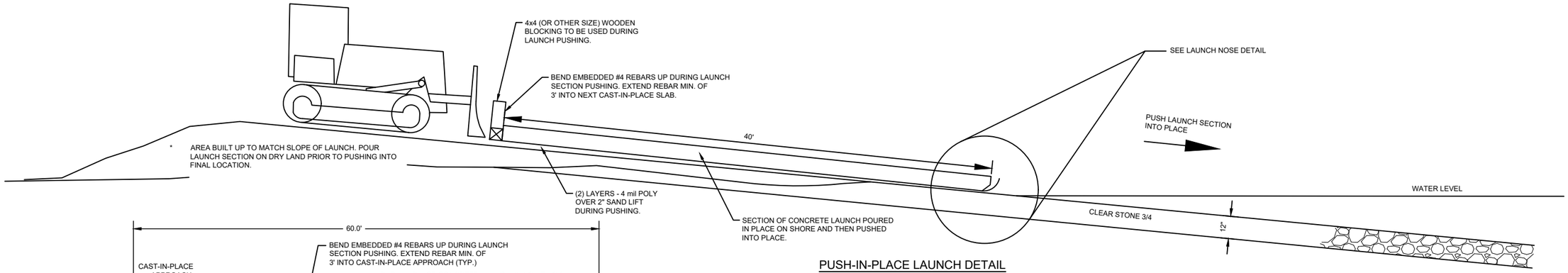
PROJECT NO: 5085-00-00	HWY: CTH GI	COUNTY: LA CROSSE	SITE PLAN: WEST BOAT LANDING	SHEET 70	E

FILE NAME : P:\13500S\13540S\13544\13544009\CADD\CONSTRUCTION DOCUMENTS\PLAN AND PROFILE MIDDLE RAMP.DWG
XXXX-XX-XX XXX XXX ##########

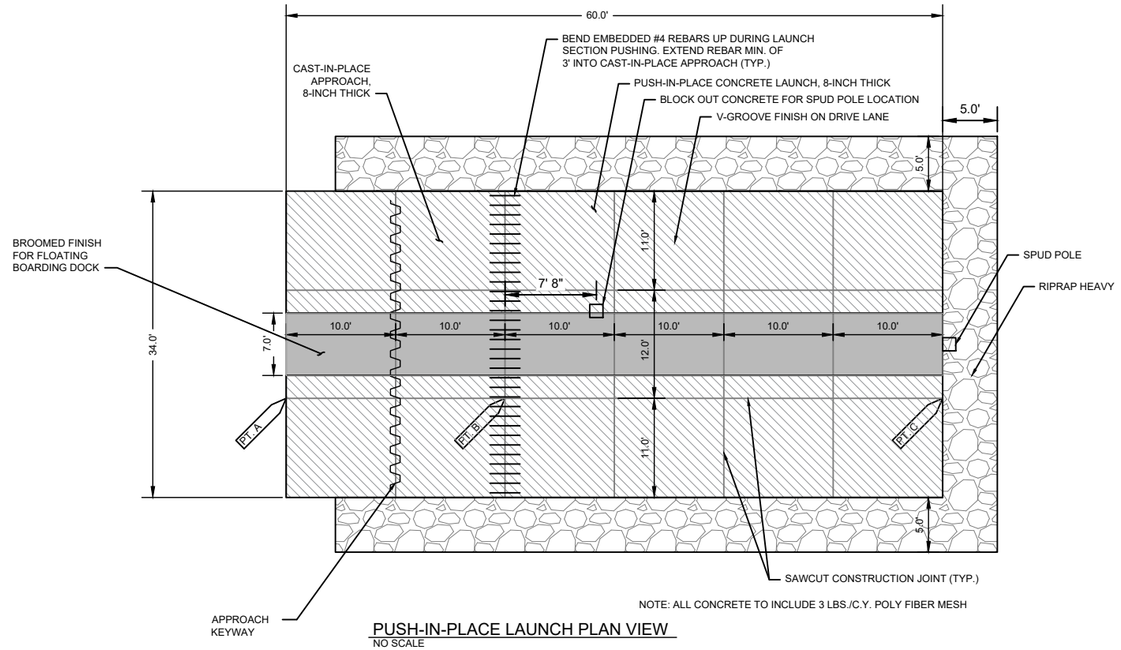
PLOT DATE : 10/31/2018 1:17 PM PLOT BY : KELSEY HERMANN PLOT NAME :

PLOT SCALE : ##########

LAYOUT NAME - MR2

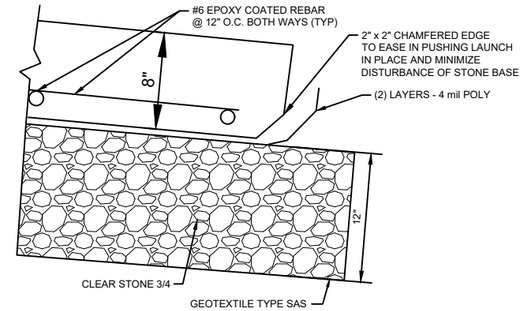


PUSH-IN-PLACE LAUNCH DETAIL
NO SCALE

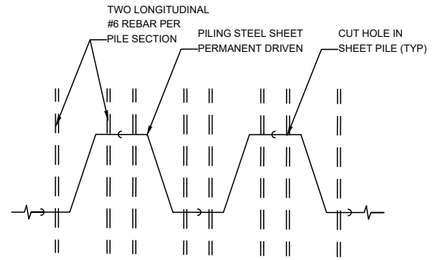


NOTE: ALL CONCRETE TO INCLUDE 3 LBS./C.Y. POLY FIBER MESH

PUSH-IN-PLACE LAUNCH PLAN VIEW
NO SCALE

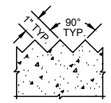


LAUNCH NOSE DETAIL
NO SCALE



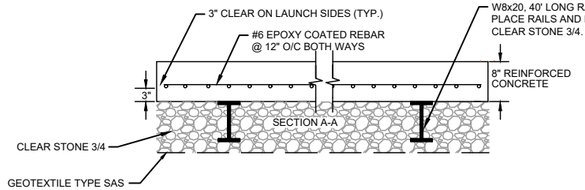
TOP VIEW

CUT SHEET PILE DETAIL
NO SCALE



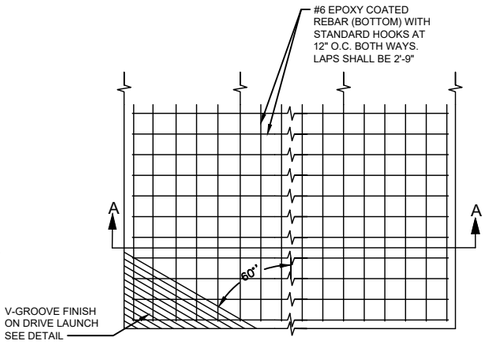
NOTE:
ALL CONCRETE IN DRIVE LAUNCH TO HAVE V-GROOVE SURFACE. GROOVES TO BE IN THE DIRECTION AS SHOWN ON THE PLAN VIEW. GROOVES TO AT A 60° ANGLE TO DIRECTION OF LAUNCH.

TYPICAL V-GROOVE DETAIL
NO SCALE



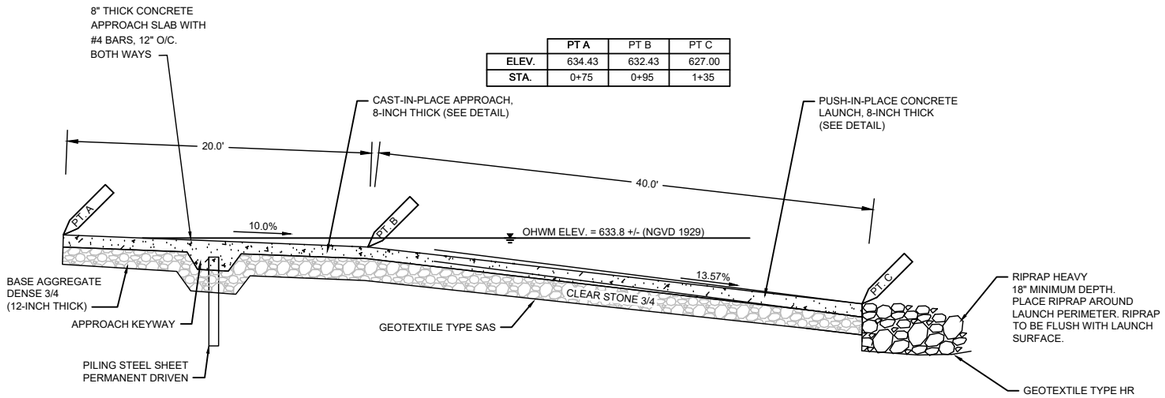
NOTE: PROVIDE CLEAR STONE UNDER RAILS. RAILS ARE SPECIFIED FOR IMPROVED CONSTRUCTABILITY AND ARE NOT INTENDED TO CARRY LOADS. PROVIDE FLUSH BASE COURSE TO PREVENT SETTLEMENT.

PUSH-IN-PLACE LAUNCH REBAR CROSS SECTION
NO SCALE



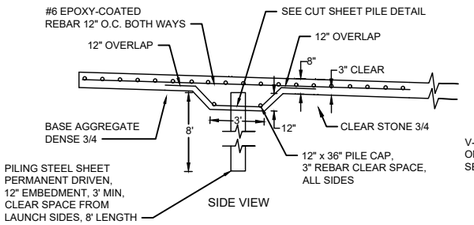
PLAN VIEW

PUSH-IN-PLACE LAUNCH REBAR PLAN VIEW
NO SCALE



	PT A	PT B	PT C
ELEV.	634.43	632.43	627.00
STA.	0+75	0+95	1+35

PUSH-IN-PLACE LAUNCH CROSS SECTION
NO SCALE



SIDE VIEW

APPROACH KEYWAY
NO SCALE

PROJECT NO: 5085-00-00	HWY: CTH GI	COUNTY: LA CROSSE	RAMP DETAILS: WEST BOAT LANDING	SHEET 71 E

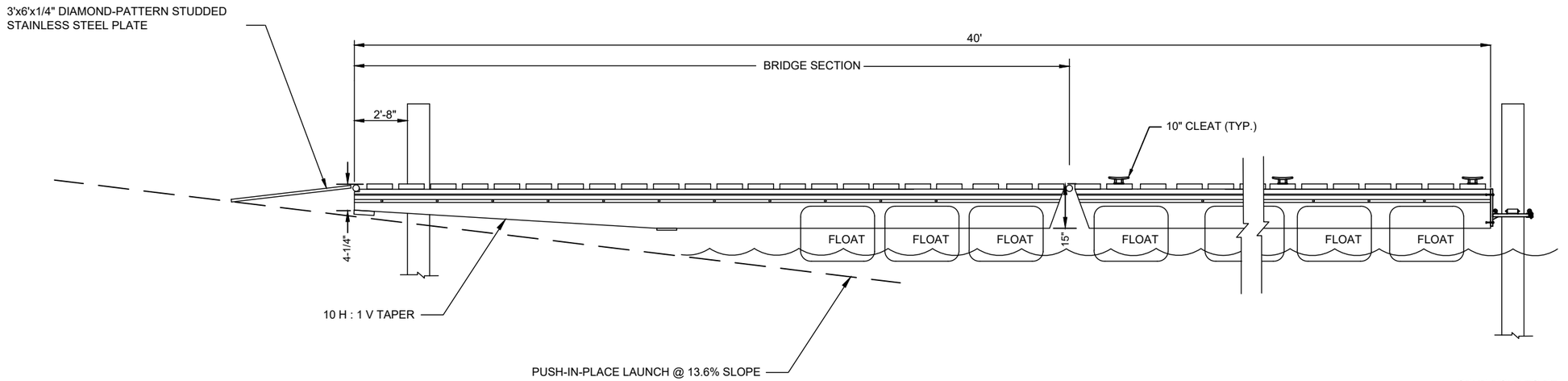
FILE NAME : P:\13500S\13540S\13544\13544009\CADD\CONSTRUCTION DOCUMENTS\PLAN AND PROFILE MIDDLE RAMP.DWG PLOT DATE : 10/31/2018 1:17 PM PLOT BY : KELSEY HERMANN PLOT NAME :

XXXX-XX-XX XXX XXX ########## PLOT SCALE : ##########

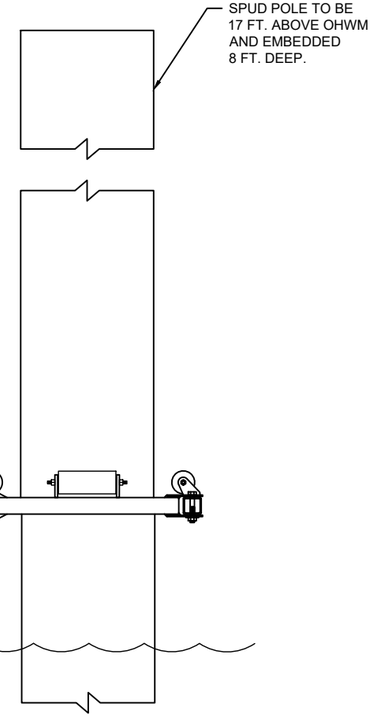
LAYOUT NAME - MR3

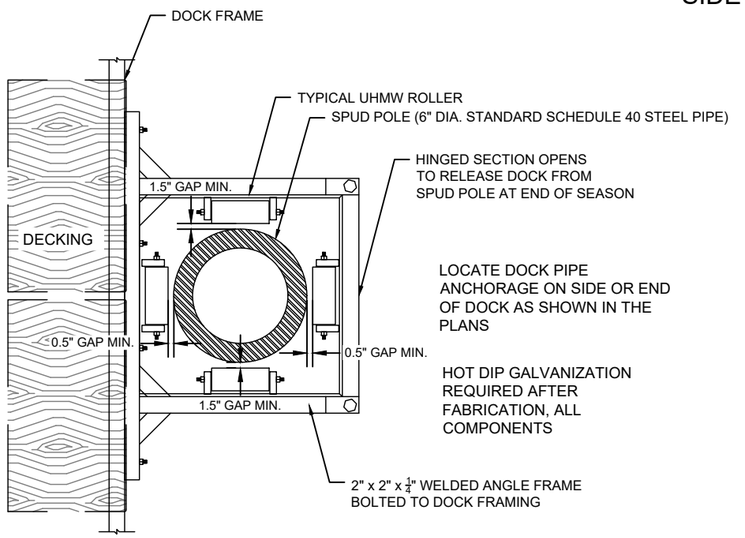
2

- BROOM FINISHED SURFACE OF CONCRETE SHORE INTERFACE PERPENDICULAR TO DIRECTION OF TRAVEL.
- PROVIDE 1" BEVEL ALONG BOTH SIDE EDGES.
- DOCK TO BE 6-FT WIDE



FLOATING DOCK DETAIL
SIDE VIEW NTS

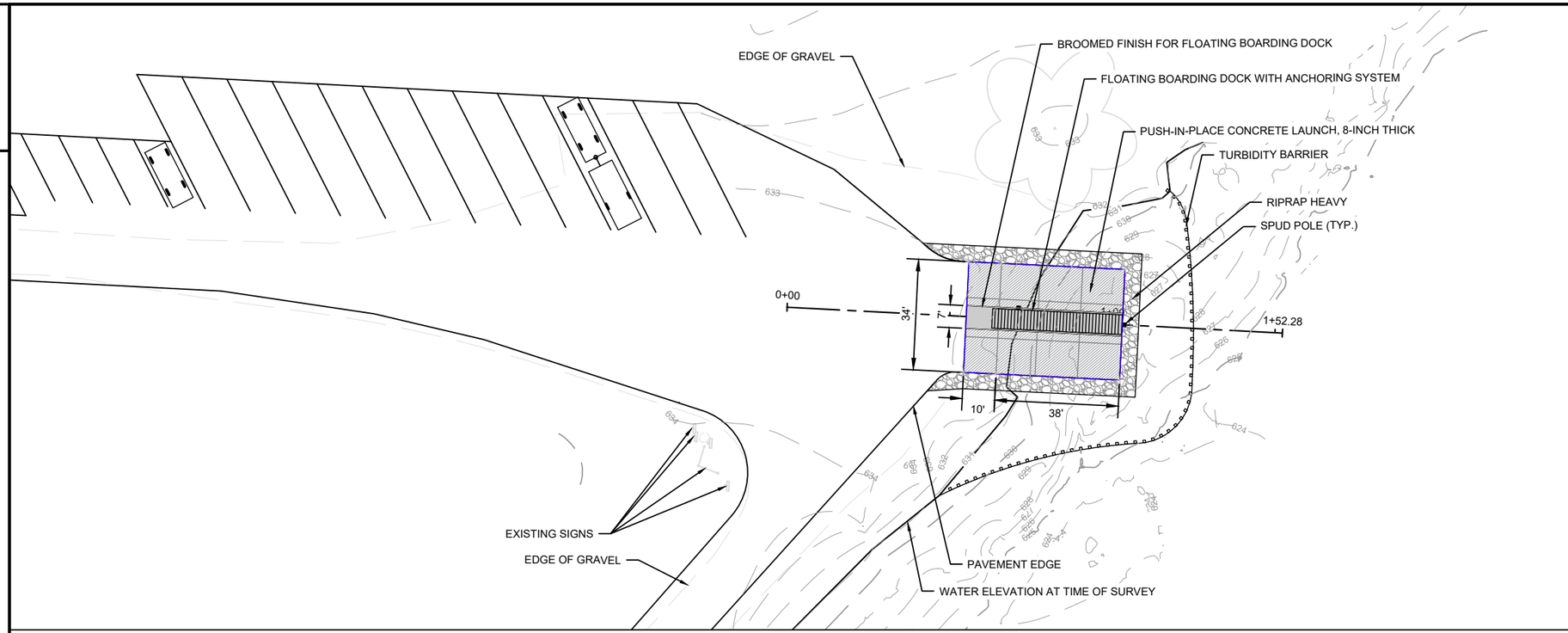


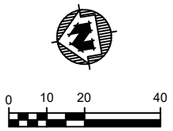


TYP. DOCK PIPE ANCHORAGE
PLAN VIEW NTS

TYP. DOCK PIPE ANCHORAGE
SIDE VIEW NTS

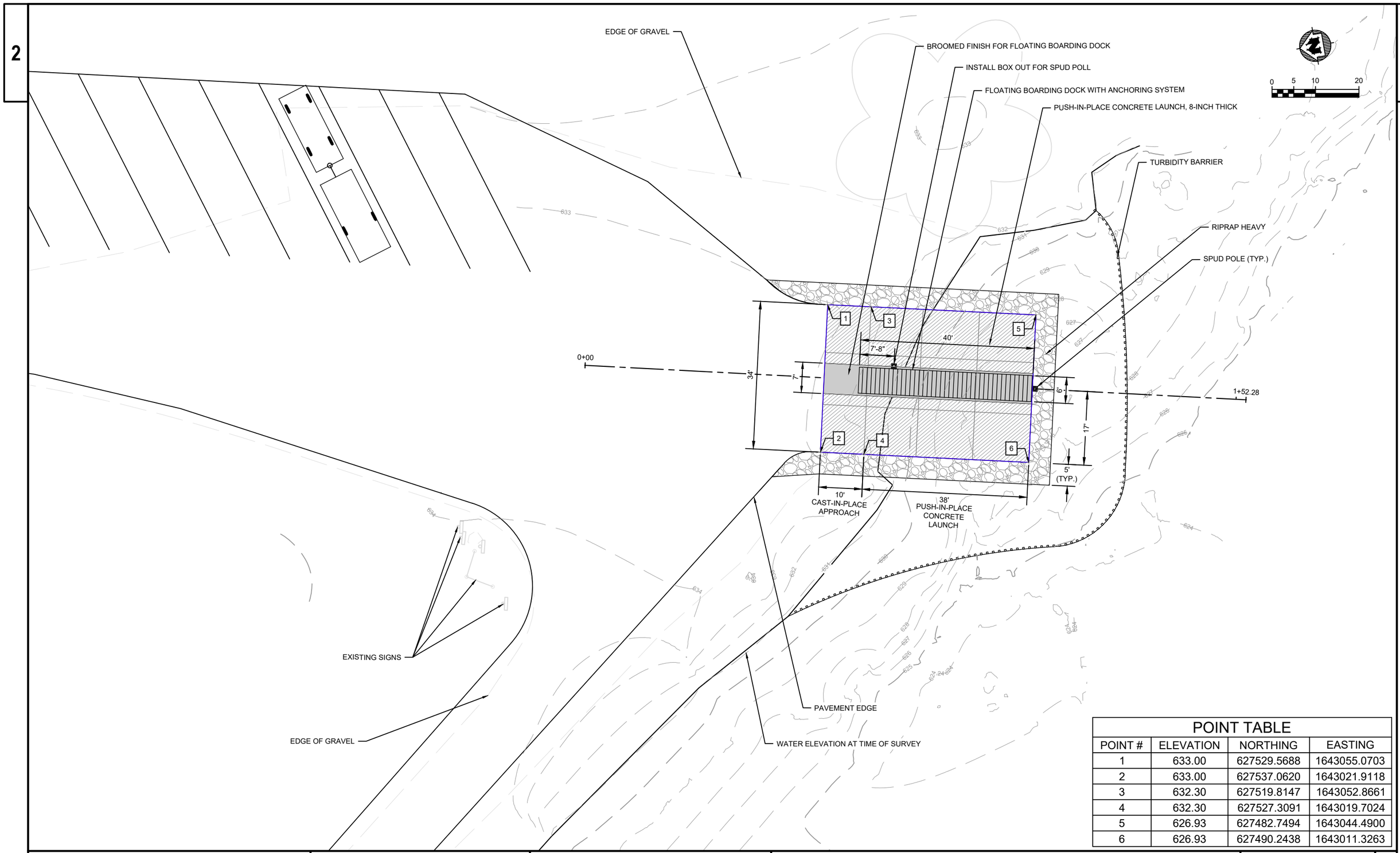
PROJECT NO: 5085-00-00	HWY: CTH GI	COUNTY: LA CROSSE	FLOATING PIER DETAILS: WEST BOAT LANDING	SHEET 72	E





PROJECT NO: 5085-00-00	HWY: CTH GI	COUNTY: LA CROSSE	PLAN AND PROFILE: HUNTER'S POINT LANDING	SHEET 73	E

FILE NAME : P:\13500S\13540S\13544\13544009\CADD\CONSTRUCTION DOCUMENTS\PLAN AND PROFILE SOUTH RAMP.DWG
XXXX-XX-XX XXX XXX ##########
PLOT DATE : 10/31/2018 1:17 PM PLOT BY : KELSEY HERMANN PLOT NAME :
WISDOT/CADDS SHEET 42
LAYOUT NAME - SR1
PLOT SCALE : ########

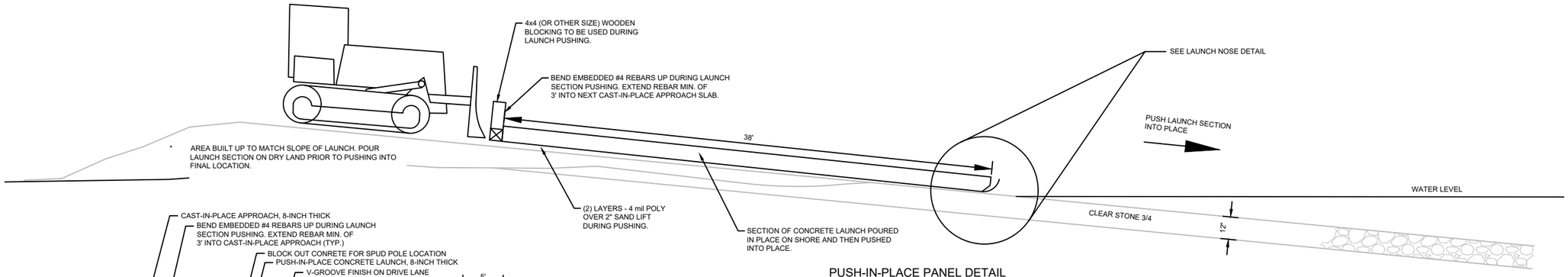


POINT TABLE			
POINT #	ELEVATION	NORTHING	EASTING
1	633.00	627529.5688	1643055.0703
2	633.00	627537.0620	1643021.9118
3	632.30	627519.8147	1643052.8661
4	632.30	627527.3091	1643019.7024
5	626.93	627482.7494	1643044.4900
6	626.93	627490.2438	1643011.3263

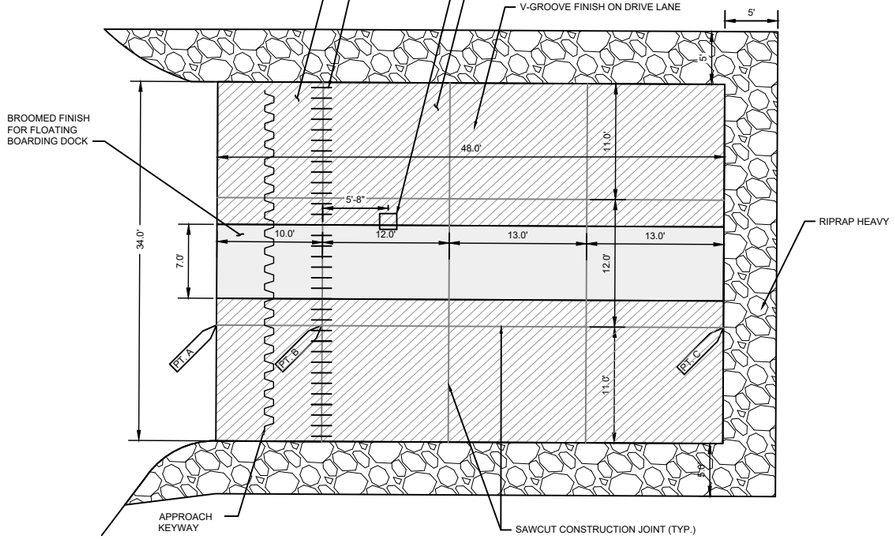
PROJECT NO: 5085-00-00	HWY: CTH GI	COUNTY: LA CROSSE	SITE PLAN: HUNTER'S POINT LANDING	SHEET 74	E

FILE NAME : P:\13500S\13540S\13544\13544009\CADD\CONSTRUCTION DOCUMENTS\PLAN AND PROFILE SOUTH RAMP.DWG
XXXX-XX-XX XXX XXX ##
PLOT DATE : 10/31/2018 1:17 PM PLOT BY : KELSEY HERMANN PLOT NAME :
PLOT SCALE : ##########
LAYOUT NAME - SR2
WISDOT/CADDS SHEET 42

2

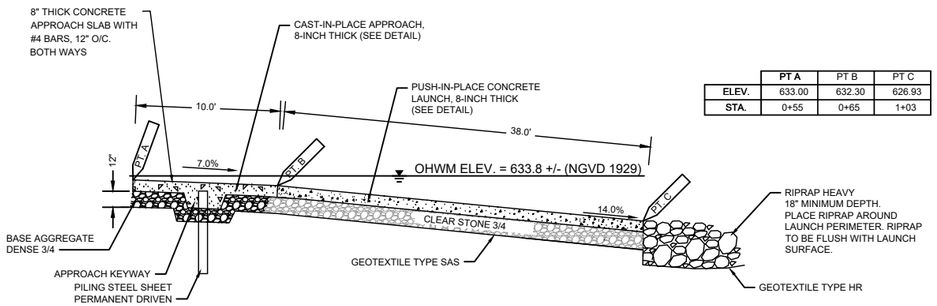


PUSH-IN-PLACE PANEL DETAIL
NO SCALE



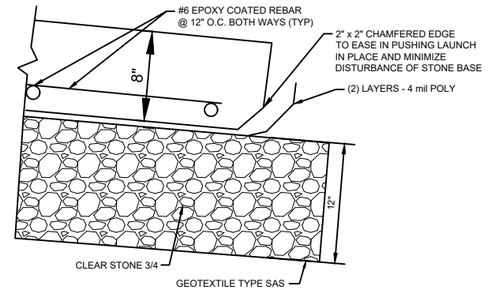
NOTE: ALL CONCRETE TO INCLUDE 3 LBS./C.Y. POLY FIBER MESH

PUSH-IN-PLACE LAUNCH PLAN VIEW
NO SCALE

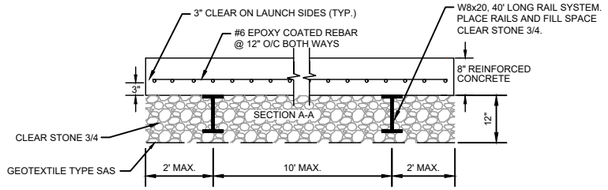


	PT A	PT B	PT C
ELEV.	633.00	632.30	626.93
STA.	0+55	0+65	1+03

LAUNCH RAMP CROSS SECTION
NO SCALE

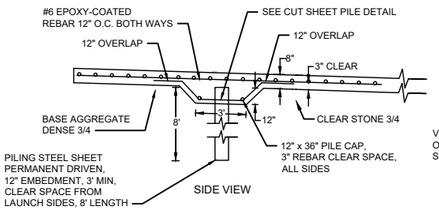


LAUNCH NOSE DETAIL
NO SCALE

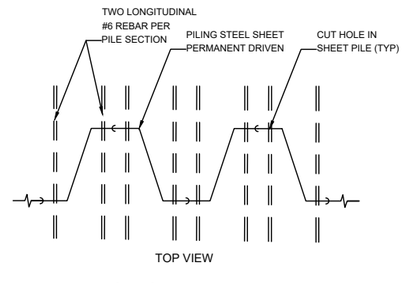


NOTE: PROVIDE CLEAR STONE UNDER RAILS. RAILS ARE SPECIFIED FOR IMPROVED CONSTRUCTABILITY AND ARE NOT INTENDED TO CARRY LOADS. PROVIDE FLUSH BASE COURSE TO PREVENT SETTLEMENT.

PUSH-IN-PLACE LAUNCH REBAR CROSS SECTION
NO SCALE

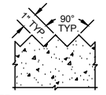


APPROACH KEYWAY
NO SCALE



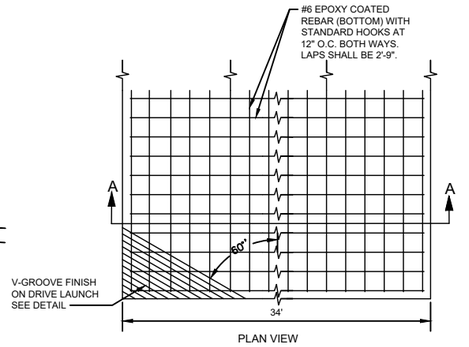
TOP VIEW

CUT SHEET PILE DETAIL
NO SCALE



NOTE:
ALL CONCRETE IN DRIVE LAUNCH TO HAVE V-GROOVE SURFACE. GROOVES TO BE IN THE DIRECTION AS SHOWN ON THE PLAN VIEW. GROOVES TO AT A 60° ANGLE TO DIRECTION OF LAUNCH.

TYPICAL V-GROOVE DETAIL
NO SCALE

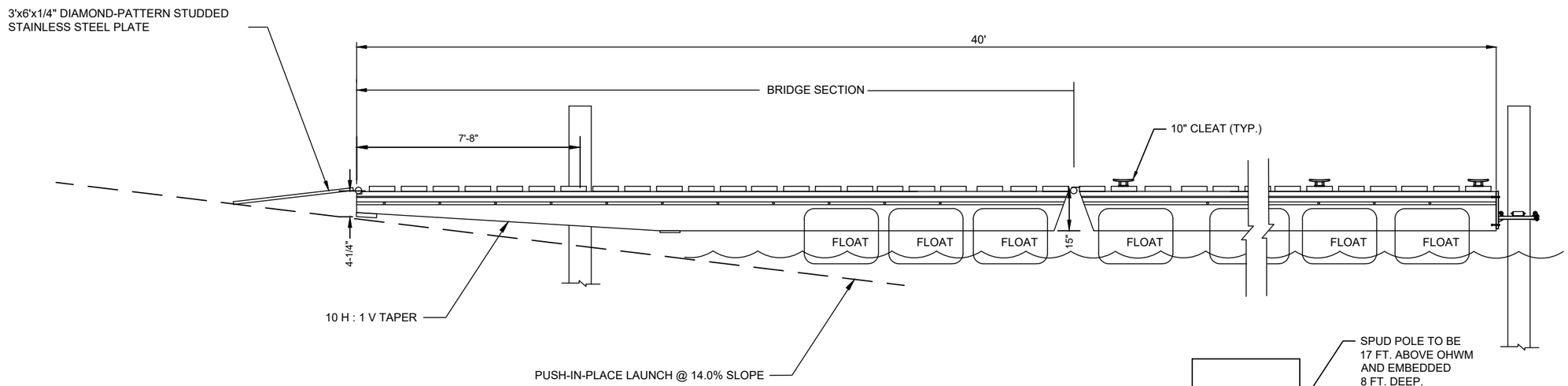


PLAN VIEW

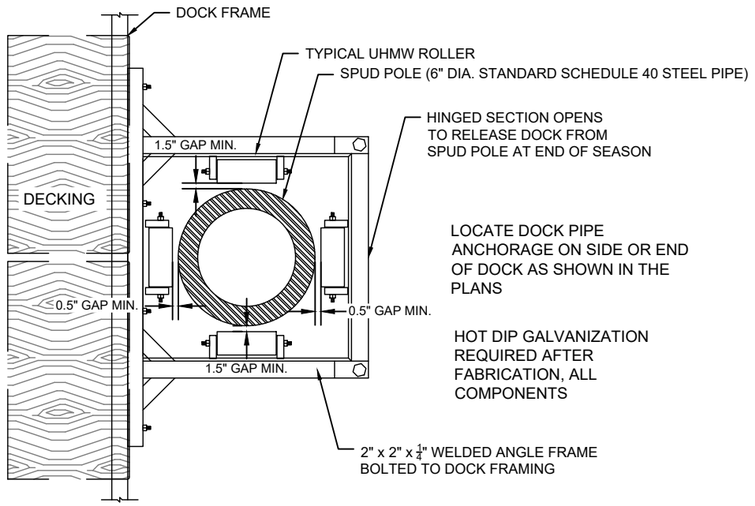
PUSH-IN-PLACE LAUNCH REBAR PLAN VIEW
NO SCALE

PROJECT NO: 5085-00-00	HWY: CTH GI	COUNTY: LA CROSSE	RAMP DETAILS: HUNTER'S POINT LANDING	SHEET 75	E

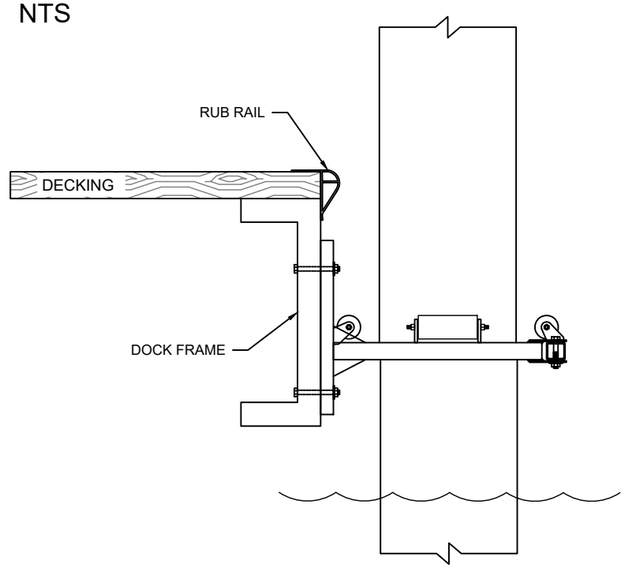
- BROOM FINISHED SURFACE OF CONCRETE SHORE INTERFACE PERPENDICULAR TO DIRECTION OF TRAVEL.
- PROVIDE 1" BEVEL ALONG BOTH SIDE EDGES.
- DOCK TO BE 6-FT WIDE



FLOATING DOCK DETAIL
SIDE VIEW NTS



TYP. DOCK PIPE ANCHORAGE
PLAN VIEW NTS



TYP. DOCK PIPE ANCHORAGE
SIDE VIEW NTS

PROJECT NO: 5085-00-00	HWY: CTH GI	COUNTY: LA CROSSE	FLOATING PIER DETAILS: HUNTER'S POINT LANDING	SHEET 76	E

5085-00-70

Line	Item	Item Description	Unit	Total	Qty
0002	201.0205	Grubbing	STA	164.000	164.000
0004	201.0220	Grubbing	ID	24.000	24.000
0006	203.0100	Removing Small Pipe Culverts	EACH	10.000	10.000
0008	203.0200	Removing Old Structure (station) 01. 77+50	LS	1.000	1.000
0010	203.0200	Removing Old Structure (station) 02. 82+25	LS	1.000	1.000
0012	204.0100	Removing Pavement	SY	90.000	90.000
0014	204.0110	Removing Asphaltic Surface	SY	196.000	196.000
0016	204.0115	Removing Asphaltic Surface Butt Joints	SY	615.000	615.000
0018	204.0120	Removing Asphaltic Surface Milling	SY	31,707.000	31,707.000
0020	204.0155	Removing Concrete Sidewalk	SY	23.000	23.000
0022	204.0165	Removing Guardrail	LF	557.000	557.000
0024	204.0185	Removing Masonry	CY	41.000	41.000
0026	205.0100	Excavation Common	CY	29,827.000	29,827.000
0028	206.2000	Excavation for Structures Culverts (structure) 01. C-32-103	LS	1.000	1.000
0030	206.2000	Excavation for Structures Culverts (structure) 02. 28+40	LS	1.000	1.000
0032	206.2000	Excavation for Structures Culverts (structure) 03. 30+00	LS	1.000	1.000
0034	206.2000	Excavation for Structures Culverts (structure) 04. 39+45	LS	1.000	1.000
0036	206.2000	Excavation for Structures Culverts (structure) 05. 43+76	LS	1.000	1.000
0038	206.2000	Excavation for Structures Culverts (structure) 06. 77+50	LS	1.000	1.000
0040	206.2000	Excavation for Structures Culverts (structure) 07. 82+25	LS	1.000	1.000
0042	206.2000	Excavation for Structures Culverts (structure) 08. 27+03	LS	1.000	1.000
0044	206.5000	Cofferdams (structure) 01. C-32-103	LS	1.000	1.000
0046	206.5000	Cofferdams (structure) 02. 28+40	LS	1.000	1.000
0048	206.5000	Cofferdams (structure) 03. 30+00	LS	1.000	1.000
0050	206.5000	Cofferdams (structure) 04. 39+45	LS	1.000	1.000
0052	206.5000	Cofferdams (structure) 05. 43+76	LS	1.000	1.000
0054	206.5000	Cofferdams (structure) 06. 77+50	LS	1.000	1.000
0056	206.5000	Cofferdams (structure) 07. 82+25	LS	1.000	1.000
0058	206.5000	Cofferdams (structure) 08. 27+03	LS	1.000	1.000
0060	210.2500	Backfill Structure Type B	TON	656.000	656.000
0062	213.0100	Finishing Roadway (project) 01. 5085-00-70	EACH	1.000	1.000
0064	305.0110	Base Aggregate Dense 3/4-Inch	TON	3,320.000	3,320.000
0066	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	31,836.000	31,836.000
0068	311.0110	Breaker Run	TON	11,272.000	11,272.000
0070	325.0100	Pulverize and Relay	SY	22,387.000	22,387.000
0072	455.0605	Tack Coat	GAL	14,345.000	14,345.000
0074	460.2000	Incentive Density HMA Pavement	DOL	14,680.000	14,680.000
0076	460.6223	HMA Pavement 3 MT 58-28 S	TON	12,902.000	12,902.000
0078	460.6224	HMA Pavement 4 MT 58-28 S	TON	10,034.000	10,034.000

5085-00-70

Line	Item	Item Description	Unit	Total	Qty
0080	504.0100	Concrete Masonry Culverts	CY	19.000	19.000
0082	504.1000.S	Precast Concrete Wingwalls (structure) 01. C-32-103	LS	1.000	1.000
0084	504.2000.S	Precast Concrete Box Culvert (ft X ft) 01. 8x8	LF	80.000	80.000
0086	505.0400	Bar Steel Reinforcement HS Structures	LB	1,995.000	1,995.000
0088	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	626.000	626.000
0090	512.0600	Piling Steel Sheet Permanent Driven	SF	776.000	776.000
0092	513.2001	Railing Pipe 01. C-32-103	LF	41.000	41.000
0094	516.0500	Rubberized Membrane Waterproofing	SY	5.000	5.000
0096	520.3318	Culvert Pipe Class III-A 18-Inch	LF	94.000	94.000
0098	522.0142	Culvert Pipe Reinforced Concrete Class III 42-Inch	LF	740.000	740.000
0100	522.2343	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 43x68-Inch	LF	68.000	68.000
0102	602.0405	Concrete Sidewalk 4-Inch	SF	440.000	440.000
0104	606.0300	Riprap Heavy	CY	243.000	243.000
0106	614.0396	Guardrail Mow Strip Asphalt	SY	611.000	611.000
0108	614.2320	MGS Guardrail 3 QS	LF	300.000	300.000
0110	614.2500	MGS Thrie Beam Transition	LF	158.000	158.000
0112	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000
0114	618.0100	Maintenance And Repair of Haul Roads (project) 01. 5080-00-70	EACH	1.000	1.000
0116	619.1000	Mobilization	EACH	1.000	1.000
0118	624.0100	Water	MGAL	650.000	650.000
0120	625.0100	Topsoil	SY	40,370.000	40,370.000
0122	627.0200	Mulching	SY	35,796.000	35,796.000
0124	628.1504	Silt Fence	LF	19,951.000	19,951.000
0126	628.1520	Silt Fence Maintenance	LF	19,951.000	19,951.000
0128	628.1550	Silt Screen	LF	6,340.000	6,340.000
0130	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0132	628.1910	Mobilizations Emergency Erosion Control	EACH	6.000	6.000
0134	628.2004	Erosion Mat Class I Type B	SY	4,774.000	4,774.000
0136	628.6005	Turbidity Barriers	SY	540.000	540.000
0138	628.7555	Culvert Pipe Checks	EACH	4.000	4.000
0140	629.0210	Fertilizer Type B	CWT	25.290	25.290
0142	630.0170	Seeding Mixture No. 70	LB	145.560	145.560
0144	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	23.000	23.000
0146	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	12.000	12.000
0148	634.0816	Posts Tubular Steel 2x2-Inch X 16-FT	EACH	6.000	6.000
0150	637.2210	Signs Type II Reflective H	SF	142.030	142.030
0152	637.2230	Signs Type II Reflective F	SF	110.320	110.320
0154	638.2602	Removing Signs Type II	EACH	60.000	60.000

5085-00-70

Line	Item	Item Description	Unit	Total	Qty
0156	638.3000	Removing Small Sign Supports	EACH	46.000	46.000
0158	642.5001	Field Office Type B	EACH	1.000	1.000
0160	643.0300	Traffic Control Drums	DAY	3,932.000	3,932.000
0162	643.0420	Traffic Control Barricades Type III	DAY	7,728.000	7,728.000
0164	643.0705	Traffic Control Warning Lights Type A	DAY	8,094.000	8,094.000
0166	643.0900	Traffic Control Signs	DAY	3,948.000	3,948.000
0168	643.1050	Traffic Control Signs PCMS	DAY	423.000	423.000
0170	643.5000	Traffic Control	EACH	1.000	1.000
0172	645.0105	Geotextile Type C	SY	190.000	190.000
0174	645.0120	Geotextile Type HR	SY	614.000	614.000
0176	645.0140	Geotextile Type SAS	SY	700.000	700.000
0178	646.1020	Marking Line Epoxy 4-Inch	LF	40,625.000	40,625.000
0180	646.3020	Marking Line Epoxy 8-Inch	LF	200.000	200.000
0182	650.4500	Construction Staking Subgrade	LF	22,358.000	22,358.000
0184	650.5000	Construction Staking Base	LF	22,358.000	22,358.000
0186	650.6000	Construction Staking Pipe Culverts	EACH	13.000	13.000
0188	650.6500	Construction Staking Structure Layout (structure) 01. C-32-103	LS	1.000	1.000
0190	650.8000	Construction Staking Resurfacing Reference	LF	24,798.000	24,798.000
0192	650.9910	Construction Staking Supplemental Control (project) 01. 5085-00-70	LS	1.000	1.000
0194	650.9920	Construction Staking Slope Stakes	LF	22,358.000	22,358.000
0196	690.0150	Sawing Asphalt	LF	162.000	162.000
0198	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	1,000.000	1,000.000
0200	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	400.000	400.000
0202	SPV.0060	Special 01. Tree Wells	EACH	51.000	51.000
0204	SPV.0060	Special 02. Repositioning Traffic Control Devices for Closures	EACH	4.000	4.000
0206	SPV.0105	Special 01. Stop Log System	LS	1.000	1.000
0208	SPV.0105	Special 02. Relocate Existing Boat Launch Signs	LS	1.000	1.000
0210	SPV.0165	Special 01. Floating Boarding Dock with Anchoring System	SF	756.000	756.000
0212	SPV.0165	Special 02. Push-In-Place Concrete Launch, 8-Inch Thick	SF	3,812.000	3,812.000
0214	SPV.0165	Special 03. Cast-In-Place Approach, 8-Inch Thick	SF	1,745.000	1,745.000
0216	SPV.0195	Special 01. 16-Inch X 2-Inch Select Crushed Material	TON	36,432.000	36,432.000
0218	SPV.0195	Special 02. Clear Stone 3/4-inch	TON	340.000	340.000

REMOVING SMALL PIPE CULVERTS

STATION	LOCATION	203.0100 EACH	NOTES
CTH GI			
26+96 & 27+03	LT & RT	2	2 - 42" RCP 54' LONG EACH
28+36 & 28+43	LT & RT	2	2 - 42" RCP 54' LONG EACH
30+00 & 30+07	LT & RT	2	2 - 42" RCP 54' LONG EACH
39+41 & 39+48	LT & RT	2	2 - 42" RCP 54' LONG EACH
43+72 & 43+79	LT & RT	2	2 - 42" RCP 54' LONG EACH
ITEM TOTAL		10	

REMOVING OLD STRUCTURE

STATION	LOCATION	203.0200.01 LS	
CTH GI			
77+50	LT & RT	1	REMOVE EXISTING 72-INCH CULVERT

REMOVING OLD STRUCTURE

STATION	LOCATION	203.0200.02 LS	
CTH GI			
82+25	LT & RT	1	REMOVE EXISTING 72-INCH CULVERTS

PULVERIZE AND RELAY

STATION - STATION	LOCATION	325.0100 SY	REMARKS
CTH GI			
10+00 - 101+58	LT & RT	22387	
ITEM TOTAL		22387	

REMOVING PAVEMENT

STATION - STATION	LOCATION	204.0100 SY
NORTH BOAT LANDING	LT & RT	29
WEST BOAT LANDING	LT & RT	61
ITEM TOTAL		90

REMOVING ASPHALTIC SURFACE MILLING

STATION - STATION	LOCATION	204.0120 SY
NORTH LANDING ROAD		
201+00 - 207+00	LT & RT	1547
209+00 - 215+70	LT & RT	1731
228+00 - 237+00	LT & RT	2247
CAMP ROADS	LT & RT	26182
ITEM TOTAL		31707

GRUBBING

STATION	LOCATION	201.0205 STA
CTH GI		
10+00-17+00	LT & RT	7
18+00 - 19+00	LT & RT	1
22+00 - 33+00	LT & RT	11
35+00 - 54+00	LT & RT	19
55+00 - 57+00	LT & RT	2
59+00 - 97+00	LT & RT	38
106+00 - 112+00	LT & RT	6
113+00 - 114+00	LT & RT	1
116+00 - 120+00	LT & RT	4
123+00 - 126+00	LT & RT	3
131+00 - 136+00	LT & RT	5
HUNTERS POINT ROAD		
140+00 - 162+00	LT & RT	22
170+00 - 179+30	LT & RT	10
WEST LANDING ROAD		
306+00 - 309+56	LT & RT	4
NORTH LANDING ROAD		
215+00 - 227+00	LT & RT	12
237+00 - 240+00	LT & RT	3
SHELTER 5 ROAD		
502+00 - 503+00	LT & RT	1
506+00 - 512+00	LT & RT	6
517+00 - 519+00	LT & RT	2
520+00 - 522+00	LT & RT	2
GI3	LT & RT	
400+00 - 404+36	LT & RT	5
ITEM TOTAL		164

REMOVING ASPHALTIC SURFACE BUTT JOINTS

STATION - STATION	LOCATION	204.0115 SY
CTH GI		
10+00 - 10+75	LT & RT	205
19+85.8 - 20+60.8	LT & RT	205
22+90 - 23+65	LT & RT	205
ITEM TOTAL		615

REMOVING CONCRETE SIDEWALK

STATION - STATION	LOCATION	204.0155 SY
CTH GI		
20+40.35 - 20+60.80	RT	12
22+79.50 - 22+98.60	RT	11
ITEM TOTAL		23

REMOVING ASPHALTIC SURFACE

STATION - STATION	LOCATION	204.0110 SY
NORTH BOAT LANDING	LT & RT	85
WEST BOAT LANDING	LT & RT	111
ITEM TOTAL		196

GRUBBING

LOCATION	201.0220 ID
BATH HOUSE #1	24
ITEM TOTAL	24

REMOVING GUARDRAIL

STATION - STATION	LOCATION	204.0165 LF
CTH GI		
18+86 - 20+62	LT	183
19+30 - 20+62	RT	128
22+78 - 24+00	LT	132
22+78 - 24+01	RT	114
ITEM TOTAL		557

REMOVING MASONRY

STATION - STATION	LOCATION	204.0185 CY
CTH GI		
82+09 - 82+41	LT	15
82+07 - 82+46	RT	26
ITEM TOTAL		41

EXCAVATION FOR STRUCTURES CULVERTS*

STRUCTURE	LOCATION	LS	ITEM NUMBER
27+03	LT & RT	1	206.2000.08
28+40	LT & RT	1	206.2000.02
30+00	LT & RT	1	206.2000.03
39+45	LT & RT	1	206.2000.04
43+76	LT & RT	1	206.2000.05
77+50	LT & RT	1	206.2000.06
82+25	LT & RT	1	206.2000.07

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

COFFERDAMS*

STRUCTURE	LOCATION	LS	ITEM NUMBER
27+03	LT & RT	1	206.5000.08
28+40	LT & RT	1	206.5000.02
30+00	LT & RT	1	206.5000.03
39+45	LT & RT	1	206.5000.04
43+76	LT & RT	1	206.5000.05
77+50	LT & RT	1	206.5000.06
82+25	LT & RT	1	206.5000.07

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

BASE COURSE ITEMS

STATION - STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	311.0110 BREAKER RUN TON	SPV.0195.01 16-INCH X 2-INCH SELECT CRUSHED MATERIAL TON
CTH GI					
10+00 - 35+00	LT & RT	323	3216		6586
35+00 - 49+00	LT & RT	204	1776		9398
GI/GI3 INTERSECTION	LT & RT	31	846		187
51+00 - 75+00	LT & RT	198	3064		5596
75+00 - 101+00	LT & RT	739	3343		14665
GI/NORTH LANDING ROAD INTERSECTION	LT & RT	44	697		
103+00 - 130+00	LT & RT	342	3927		
130+00 - 157+00	LT & RT	342	3927	2282	
157+00 - 179+50	LT & RT	342	3927	3200	
CTH GI3	LT & RT				
NORTH LANDING RD					
NORTH LANDING RD/WEST LANDING RD INTERSECTION	LT & RT	29	309		
209+00 - 226+00	LT & RT	148	1590		
NORTH LANDING RD/SHELTER 5 INTERSECTION	LT & RT				
228+00 - 244+21	LT & RT	50	536		
WEST LANDING RD					
301+00 - 309+10	LT & RT	116	1331	1499	
SHELTER 5 RD					
501+00 - 524+18.28	LT & RT	332	3347	4291	
NORTH BOAT LANDING	LT & RT	30			
WEST BOAT LANDING	LT & RT	30			
HUNTERS POINT BOAT LANDING	LT & RT	20			
ITEM TOTAL		3320	31836	11272	36432

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE ENGINEER ESTIMATE CATEGORY 0010 UNLESS OTHERWISE NOTED

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CULVERT PIPE ITEMS

STATION - STATION	LOCATION	522.0142 CULVERT PIPE REINFORCED CONCRETE CLASS III 42-INCH LF	522.2343 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPITICAL CLASS HE-III 43 X 68-INCH LF	520.3318 CULVERT PIPE CLASS III-A 18-INCH LF
CATEGORY 0010				
CTH GI				
26+96 & 27+03	LT & RT	136		
28+36 & 28+43	LT & RT	140		
30+00 & 30+07	LT & RT	136		
39+41 & 39+48	LT & RT	164		
43+72 & 43+79	LT & RT	164		
77+50	LT & RT		68	
NORTH LANDING RD				
217+84	LT & RT			48
223+58	LT & RT			46
CATEGORY 0010 SUBTOTALS		740	68	94
ITEM TOTAL		740	68	94

BOAT LANDING SPECIAL ITEMS

STATION - STATION	SPV.0165.02 PUSH-IN-PLACE CONCRETE LAUNCH, 8-INCH THICK SF	SPV.0165.03 CAST-IN-PLACE APPROACH, 8-INCH THICK SF	SPV.0165.01 FLOATING BOARDING DOCK WITH ANCHORING SYSTEM SF	SPV.0195.02 CLEAR STONE 3/4-INCH TON
NORTH BOAT LANDING	1160	725	276	120
WEST BOAT LANDING	1360	680	240	130
HUNTERS POINT BOAT LANDING	1292	340	240	90
ITEM TOTAL	3812	1745	756	340

CONCRETE SIDEWALK 4-INCH

STATION - STATION	LOCATION	602.0405 SF
GI		
MANAGER'S OFFICE	LT & RT	320
BATHHOUSE 1 OFF OF TEAL ROAD		120
ITEM TOTAL		440

PILING STEEL SHEET PERMANENT DRIVEN

STATION - STATION	LOCATION	512.0600 SF
GI		
NORTH BOAT LANDING	LT & RT	232
WEST BOAT LANDING	LT & RT	272
HUNTERS POINT BOAT LANDING	LT & RT	272
ITEM TOTAL		776

HEAVY RIPRAP*

STATION - STATION	LOCATION	606.0300 CY
GI		
NORTH BOAT LANDING	LT & RT	40
WEST BOAT LANDING	LT & RT	60
HUNTERS POINT BOAT LANDING	LT & RT	47
ITEM TOTAL		147

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE ENGINEER ESTIMATE CATEGORY 0010 UNLESS OTHERWISE NOTED

HMA PAVEMENT ITEMS

STATION	LOCATION	455.0605 TACK COAT GAL	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6224 HMA PAVEMENT 4 MT 58-28 S TON
CTH GI				
10+00 - 20+60.76	LT & RT	683	631	491
22+79.46 - 35+00		879	813	632
35+00 - 49+00	LT & RT	871	805	626
49+00 - 75+00	LT & RT	1618	1495	1163
75+00 - 101+00	LT & RT	1626	1502	1169
MAINTENANCE SHOP		332	307	239
4 WAY INT. (N LANDING RD, W LANDING RD, CTH GI)	LT & RT	119	112	87
102+17 - 130+00	LT & RT	866	800	622
130+00 - 141+42		355	328	255
HUNTERS POINT ROAD				
141+42- 159+00	LT & RT	547	505	393
159+00 - 176+50	LT & RT	544	503	391
HUNTERS POINT LANDING (176+50 - 179+30)		336	311	241
CTH GI3 & INTERSECTION	LT & RT	230	213	165
NORTH LANDING RD				
201+00 - 207+00	LT & RT	108	100	78
207+00 - 209+00	LT & RT	67	62	49
209+00 - 215+70	LT & RT	121	112	87
215+70 - 228+00, SHELTER 5 INTERSECTION		433	401	311
228+00 - 237+00	LT & RT	157	145	113
237+00 - 244+21	LT & RT	480	444	346
WEST LANDING RD				
301+00 - 309+10, OFFICE LOT, WEST LANDING LOT	LT & RT	999	924	719
SHELTER 5 RD				
499+98 - 514+00		423	392	304
514+00 - 524+18	LT & RT	722	307	238
MINOR CAMPROADS & CAMPSITES	LT & RT	1829	1690	1315
ITEM TOTAL		14345	12902	10034

MIDWEST GUARDRAIL SYSTEM ITEMS

STATION - STATION	LOCATION	614.2320 MGS GUARDRAIL 3 QS LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH
CTH GI				
18+91.48 - 20+63.29	LT	87.5	39.5	1
19+18.68 - 20+63.41	RT	50	39.5	1
22+76.80 - 24+41.59	LT	75	39.5	1
22+76.80 - 24+58.00	RT	87.5	39.5	1
ITEM TOTAL		300	158	4

3

TURF ESTABLISHMENT ITEMS

STATION - STATION	LOCATION	625.0100 TOPSOIL TURF SY	627.0200 MULCHING SY	628.2004 EROSION MAT CLASS 1 TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0170 SEEDING MIXTURE NO. 70 LB
CTH GI						
28+50.00 - 34+50.00	RT	566		566	0.36	2.04
38+00.00 - 42+00.00	LT	380		380	0.24	1.37
43+00.00 - 47+50.00	LT	498		498	0.31	1.79
76+00.00 - 79+50.00	LT	337		337	0.21	1.21
76+00.00 - 86+50.00	RT	1353		1353	0.85	4.87
80+50.00 - 87+50.00	LT	840		840	0.53	3.02
101+57.95 - 141+42.00	LT & RT	9161	9161		5.77	32.98
HUNTERS POINT RD						
141+42.00 - 179+30.52	LT & RT	8759	8759		5.52	31.53
NORTH LANDING RD						
200+00.00 - 201+00.00	LT & RT	214	214		0.14	0.77
201+00.00 - 207+00.00	LT & RT	267	267		0.17	0.96
207+00.00 209+00.00	LT & RT	273	273		0.18	0.98
209+00.00 - 215+70.00	LT & RT	267	267		0.17	0.96
215+00.00 - 228+00.00	LT & RT	2556	2556		1.61	9.21
228+00.00 - 237+00.00	LT & RT	400	400		0.25	1.44
NORTH LANDING RD PARKING LOT						
237+00.00 - 240+50.00	LT & RT	525	525		0.33	1.89
WEST LANDING RD						
300+00.00 - 309+55.49	LT & RT	1722	1722		1.09	6.2
CTH GI 3						
400+68.00 - 404+36.13	LT & RT	1009	1009		0.64	3.63
SHELTER 5 RD						
499+98.66 - 524+18.28	LT & RT	4643	4643		2.92	16.71
UNDISTRIBUTED		6600	6000	800	4	24
ITEM TOTAL		40370	35796	4774	25.29	145.56

WATER

STATION - STATION	LOCATION	624.0100 MGAL
PROJECT		650
ITEM TOTAL		650

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EROSION CONTROL ITEMS

STATION - STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1550 SILT SCREEN LF	628.7555 CULVERT PIPE CHECKS EACH	628.6005 TURBIDITY BARRIERS SY	645.0120 GEOTEXTILE TYPE HR SY	645.0140 GEOTEXTILE TYPE SAS SY
CTH GI								
10+00 - 35+00	LT & RT	1772	1772	2737				
35+00 - 49+00	LT & RT	1021	1021	1838				
GI - GI3 INTERSECTION	LT & RT	390	390					
51+00 - 75+00	LT & RT	4437	4437					
75+00 - 101+00	LT & RT	3237	3237	1531				
GI/NORTH LANDING ROAD INTERSECTION	LT & RT	65	65					
103+00 - 130+00	LT & RT	1785	1785					
130+00 - 157+00	LT & RT	2955	2955					
157+00 - 179+50	LT & RT	1296	1296					
NORTH LANDING RD								
209+00 - 226+00	LT & RT	846	846		4			
NORTH LANDING RD/SHELTER 5 INTERSECTION								
228+00 - 244+21	LT & RT	267	267					
WEST LANDING RD								
301+00 - 309+10	LT & RT	343	343					
SHELTER 5 RD								
501+00 - 524+18.28	LT & RT	1022	1022	234				
RIVER RD								
10+00 - 15+88.13	LT & RT	515	515					
NORTH BOAT LANDING	LT & RT					173	130	220
WEST BOAT LANDING	LT & RT					194	190	245
HUNTERS POINT BOAT LANDING	LT & RT					173	150	235
ITEM TOTAL		19951	19951	6340	4*	540	470	700

* CULVERT PIPE CHECKS INSTALLED AT INLET END OF CULVERT

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE ENGINEER ESTIMATE CATEGORY 0010 UNLESS OTHERWISE NOTED

MOBILIZATIONS EROSION CONTROL ITEMS

STATION - STATION	LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
CTH GI	LT & RT	4	6
ITEM TOTAL		4	6

GUARDRAIL MOW STRIP ASPHALT

STATION - STATION	LOCATION	614.0396 SY
CTH GI		
STA 18+91 TO 20+63	LT	172
STA 19+18 TO 20+63	RT	129
STA 22+76 TO 24+42	LT	148
STA 22+76 TO 24+58	RT	162
ITEM TOTAL		611

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PERMANENT SIGNING ITEMS

SIGN GROUP NUMBER	SIGN CODE	SIGN MESSAGE	SIZE	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	634.0816 POSTS TUBULAR STEEL 2X2-INCH X 16-FT	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
1-1	W3-1	STOP AHEAD	36 X 36		9.00	1			1	1	
1-2	W10-1	RAILROAD CROSSING	36 X 36		7.07	1			1	1	
1-3	W1-3L	LEFT REVERSE TURN	36 X 36		9.00		1		1	1	
	W13-1	ADVISORY SPEED PLATE (YELLOW BACK)	18 X 18		2.25				1		15 MPH
1-4	M1-5A	COUNTY MARKER	24 X 24	4.00		1			1	1	CTH GI
1-5	W11-2	PEDESTRIAN CROSSING SYMBOL	30 X 30		6.25		1		1	1	
	W57-51	NEXT 2 MILES	30 X 15		3.13				1		
1-6	R2-1	SPEED LIMIT	24 X 30	5.00		1			1	1	25 MPH
1-7	R9-56	NO FISHING OR DIVING FROM BRIDGE	18 X 24	3.00				1	1	1	
1-8	W5-52R	CLEARANCE STRIPER DOWN RIGHT	12 X 36		3.00			1	1	1	
1-9	W5-52L	CLEARANCE STRIPER DOWN LEFT	12 X 36		3.00			1	1	1	
1-10	W5-52R	CLEARANCE STRIPER DOWN RIGHT	12 X 36		3.00			1	1	1	
1-11	W5-52L	CLEARANCE STRIPER DOWN LEFT	12 x 36		3.00			1	1	1	
2-1	W1-6	NIGHT ARROW	48 X 24		8.00	1			1	1	
2-2	W1-6	NIGHT ARROW	48 X 24		8.00	1			1	1	
2-3	R9-56	NO FISHING OR DIVING FROM BRIDGE	18 X 24	3.00				1	1	1	
2-4	W1-6	NIGHT ARROW	48 x 24		8.00	1			1	1	
2-5	W1-6	NIGHT ARROW	48 x 24		8.00	1			1	1	
2-6	W1-3R	RIGHT REVERSE TURN	36 X 36		9.00		1		1		
	W13-1	ADVISORY SPEED PLATE (YELLOW BACK)	18 X 18		2.25				1	1	
2-7		NO PARKING ANY TIME							1	1	
2-8	R2-1	SPEED LIMIT	24 X 30	5.00		1			1	1	
		NO PARKING ANY TIME	18 X 24						1		
2-9		SPEED LIMIT	24 X 30	5.00		1			1	1	
4-1		ROAD TURNS LEFT							1	1	
4-2	R2-1	SPEED LIMIT	24 X 30	5.00		1			1	1	
4-3	R2-1	SPEED LIMIT	24 X 30	5.00		1			1	1	
5-1	R2-1	SPEED LIMIT	24 X 30	5.00		1			1	1	25 MPH
6-1		NO PARKING ANY TIME							1	1	
6-2		NO PARKING ANY TIME							1	1	
6-3		NO PARKING ANY TIME							1	1	
6-4		NO PARKING ANY TIME							1	1	
7-1	R2-1	SPEED LIMIT	24 X 30	5.00		1			1	1	
7-2	W11-2	PEDESTRIAN CROSSING	30 X 30		6.25		1		1	1	
	W57-51	NEXT 2 MILES	30 X 15		3.13				1		
7-3	M1-5A	COUNTY MARKER	24 X 24	4.00		1			1	1	CTH GI
7-4	R1-1	STOP	30 X 30	7.46			1		1	1	
	R1-3P	ALL WAY	18 X 6	0.75					1		
7-5	M1-5A	COUNTY MARKER	24 X 24	4.00			1		1	1	
	M6-1	ARROW LEFT	21 X 21	3.06					1		
7-6	R2-1	SPEED LIMIT	24 X 30	5.00		1			1	1	10 MPH
7-7	M1-5A	COUNTY MARKER	24 X 24	4.00			1		1	1	
	M6-6	DIRECTIONAL ARROW COMBO LEFT/AHEA	21 x 21	3.06					1		
7-8	R1-1	STOP	30 X 30	7.46			1		1	1	
	R1-3P	ALL WAY	18 X 6	0.75					1		
7-9	W3-1	STOP AHEAD	36 X 36		9.00	1			1	1	
7-10	R1-1	STOP	30 X 30	7.46			1		1	1	
	R1-3P	ALL WAY	18 X 6	0.75					1		
7-11	M1-5A	COUNTY GI	24 X 24	4.00		1			1	1	
7-12	R2-1	SPEED LIMIT	24 X 30	5.00		1			1	1	25 MPH
7-13	M1-5A	COUNTY MARKER	24 X 24	4.00			1		1	1	
	M6-1	ARROW LEFT	21 X 21	3.06					1		
7-14	R1-1	STOP	30 X 30	7.46			1		1	1	
	R1-3P	ALL WAY	18 X 6	0.75					1		
9-1	R2-1	SPEED LIMIT	24 X 30	5.00		1			1	1	25 MPH
9-2	R2-1	SPEED LIMIT	24 X 30	5.00		1			1	1	25 MPH
10-1	R2-1	SPEED LIMIT	24 X 30	5.00		1			1	1	
10-2	M1-5A	COUNTY MARKER	24 X 24	4.00			1		1	1	CTH GI
	M4-6	END	24 X 12	2.00					1		
10-3	M1-5A	COUNTY MARKER	24 X 24	4.00		1			1		CTH GI
ITEM TOTAL				142.03	110.32	23	12	6	60	46	

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE ENGINEER ESTIMATE CATEGORY 0010 UNLESS OTHERWISE NOTED

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PAVEMENT MARKING ITEMS

STATION - STATION	LOCATION	646.1020 MARKING LINE EPOXY 4-INCH (WHITE) LF	646.1020 MARKING LINE EPOXY 4-INCH (YELLOW) LF	646.3020 MARKING LINE EPOXY 8-INCH (WHITE) LF
CTH GI				
10+00 - 35+00	LT & RT	5000	5000	
35+00 - 49+00	LT & RT	2800	2800	
GI - GI3 INTERSECTION	LT & RT	400	400	
51+00 - 75+00	LT & RT	4800	4800	
75+00 - 101+00	LT & RT	5200	5200	
GI/NORTH LANDING ROAD INTERSECTION	LT & RT	165	345	
157+00 - 179+50	LT	695		
WEST LANDING RD				
301+00 - 309+10	LT & RT	1050	980	200
NORTH LANDING RD				
228+00 - 244+21	RT	990		
SUBTOTAL		21100	19525	200
ITEM TOTAL		40625		200

CONSTRUCTION STAKING

STATION - STATION	LOCATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.6000 PIPE CULVERTS EA	650.6500 CAT 0020 STRUCTURE LAYOUT LS	650.8000 RESURFACING REFERENCE LF	650.9910.01 SUPPLEMENTAL CONTROL (5085-00-70) LS	650.9920 SLOPE STAKES LF
CATEGORY 0010								
CTH GI	LT & RT						1	
10+00 - 35+00	LT & RT	2282	2282	6		2282		2282
35+00 - 49+00	LT & RT	1400	1400	4		1400		1400
GI/GI3 INTERSECTION	LT & RT	236	236			236		236
51+00 - 75+00	LT & RT	2400	2400			2400		2400
75+00 - 101+00	LT & RT	2600	2600	1		2600		2600
GI/NORTH LANDING ROAD INTERSECTION	LT & RT	400	400			400		400
103+00 - 130+00	LT & RT	2700	2700			2700		2700
130+00 - 157+00	LT & RT	2700	2700			2700		2700
157+00 - 179+50	LT & RT	2250	2250			2250		2250
CTH GI3	LT & RT	280	280			280		280
NORTH LANDING RD								
201+00 - 207+00	LT & RT					600		
NORTH LANDING RD/WEST LANDING RD INTERSECTION	LT & RT	200	200			200		200
209+00 - 226+00	LT & RT	670	670	2		1700		670
NORTH LANDING RD/SHELTER 5 INTERSECTION	LT & RT	300	300			300		300
228+00 - 244+21	LT & RT	1621	1621			1621		1621
WEST LANDING RD								
301+00 - 309+10	LT & RT					810		
SHELTER 5 RD								
501+00 - 524+18.28	LT & RT	2319	2319			2319		2319
CAMP ROADS								
CATEGORY 0010 SUBTOTALS		22358	22358	13	0	24798	1	22358
CATEGORY 0020								
C-32-103	LT & RT				1			
CATEGORY 0020 SUBTOTALS		0	0	0	1	0	0	0
ITEM TOTAL		22358	22358	13	1	24798	1	22358

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE ENGINEER ESTIMATE CATEGORY 0010 UNLESS OTHERWISE NOTED

TREE WELLS

STATION - STATION	LOCATION	SPV.0060.01 EACH
CTH GI		
28+00 - 34+00	LT	9
39+00 - 41+50	LT	3
43+50 - 47+00	LT	5
77+00 - 79+00	LT	4
77+00 - 86+00	RT	18
81+00 - 87+00	LT	12
ITEM TOTAL		51

TRAFFIC CONTROL ITEMS

STATION - STATION	643.0300 TRAFFIC CONTROL DRUMS DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0900 TRAFFIC CONTROL SIGNS DAY	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY	643.5000 EACH
CTH GI	3932					1
STAGE 1		2880	3000	1560	183	
STAGE 2		2400	2460	720	189	
STAGE 3		1440	1500	660	51	
STH 35 & CTH K		1008	1134	1008		
ITEM TOTAL	3932	7728	8094	3948	423	1

SAWING ASPHALT

STATION - STATION	LOCATION	690.0150 LF
CTH GI		
10+00		22
NORTH LANDING ROAD		
201+00		20
207+00		20
209+00		20
215+70		20
228+00		20
237+00		20
CAMPSITE ENTRANCE	WEST OF MANAGERS OFFICE	20
ITEM TOTAL		162

3

EARTHWORK SUMMARY

STATION	(1) 205.0100 EXCAVATION COMMON CY	(2) EXPANDED FILL CY	(3) MASS ORDINATE CY
CTH GI			
10+00 - 35+00	3203	0	3203
35+00 - 49+00	1445	0	1445
GI/GI3 INTERSECTION	326	4	322
51+00 - 75+00	2794	393	2401
75+00 - 101+00	3305	236	3069
GI/NORTH LANDING ROAD INTERSECTION	450	6	444
103+00 - 130+00	2617	144	2473
130+00 - 157+00	3053	115	2938
157+00 - 179+50	4786	76	4710
CTH GI3			
400+70 - 403+50	1078	91	987
NORTH LANDING RD			
NORTH LANDING RD/WEST LANDING RD INTERSECTION			
209+00 - 226+00	443	1032	-589
NORTH LANDING RD/SHELTER 5 INTERSECTION	533	20	513
WEST LANDING RD			
301+00 - 302+50	307	6	301
PARKING LOT			
305+00 - 307+00	525	0	525
BOAT LANDING			
SHELTER 5 RD			
501+00 - 524+18.28	4962	102	4860
ITEM TOTAL	29827	2225	27602

(1) EXCAVATION COMMON, ITEM NUMBER 205.0100 IS THE TOTAL VOLUME OF CUT
(2) EXPANDED FILL IS THE TOTAL AMOUNT OF FILL MULTIPLIED BY A FACTOR OF 1.3
(3) MASS ORDINATE = EXCAVATION COMMON - EXPANDED FILL

REPOSITIONING TRAFFIC CONTROL DEVICES FOR CLOSURES

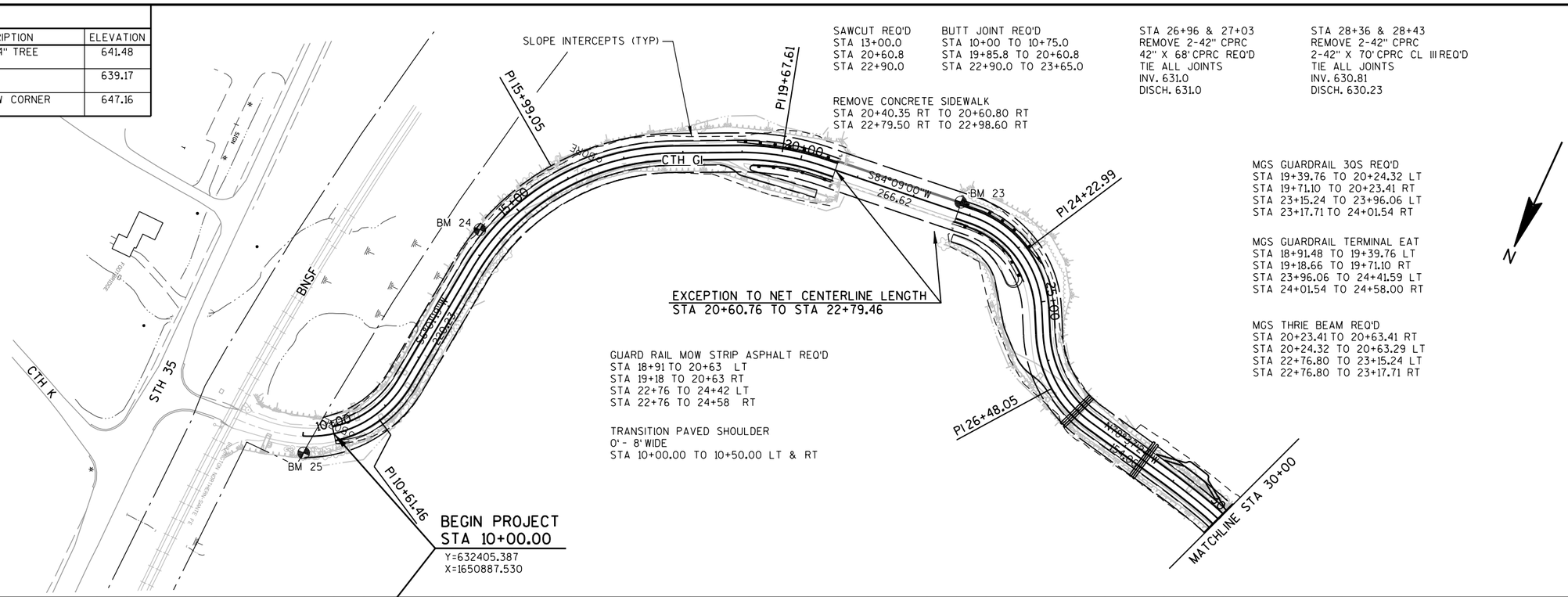
STATION - STATION	SPV.0060.02 EACH
5085-00-70	
STAGE 1	1
STAGE 2	1
STAGE 3	1
PARK CLOSED (OCT - MAY)	1
ITEM TOTAL	4

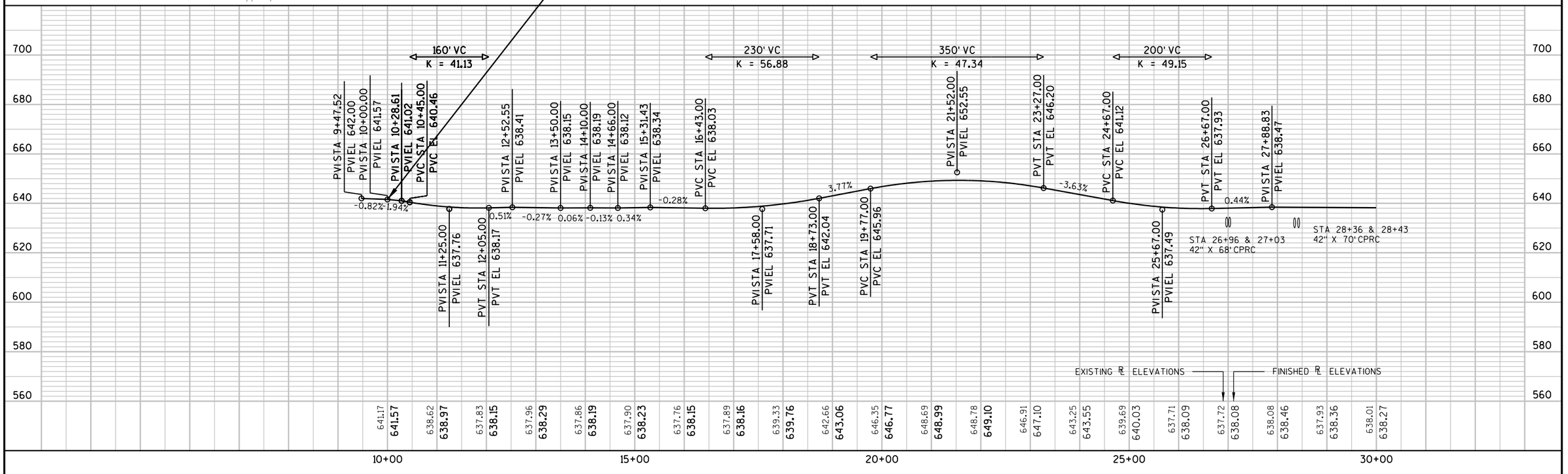
3

FILE NAME : P:\LACRO\15005 - Goose Island\cad\MQCTHGI_ALL.dgn PLOT DATE : 10/27/2018 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

BENCHMARK TABLE

NO.	STATION	DESCRIPTION	ELEVATION
25	PRIOR TO PROJECT	RR SPIKE IN 24" TREE	641.48
24	14+34.26, 27.1' LT	RR SPK IN PP	639.17
23	22+78.75, 16.5' LT	BRIDGE CAP SW CORNER	647.16





PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	PLAN & PROFILE	SHEET 86 E

BENCHMARK TABLE			
NO.	STATION	DESCRIPTION	ELEVATION
22	33+97.72, 62.9' RT	RR SPK 14" TREE	633.55
21	50+04.32, 94.6' LT	CHISELED X IN FLAG BASE	637.87

STA 30+00 & 30+07
2-42" X 68' CPRC CL III REQ'D
TIE ALL JOINTS
INV. 631.45
DISCH. 630.52

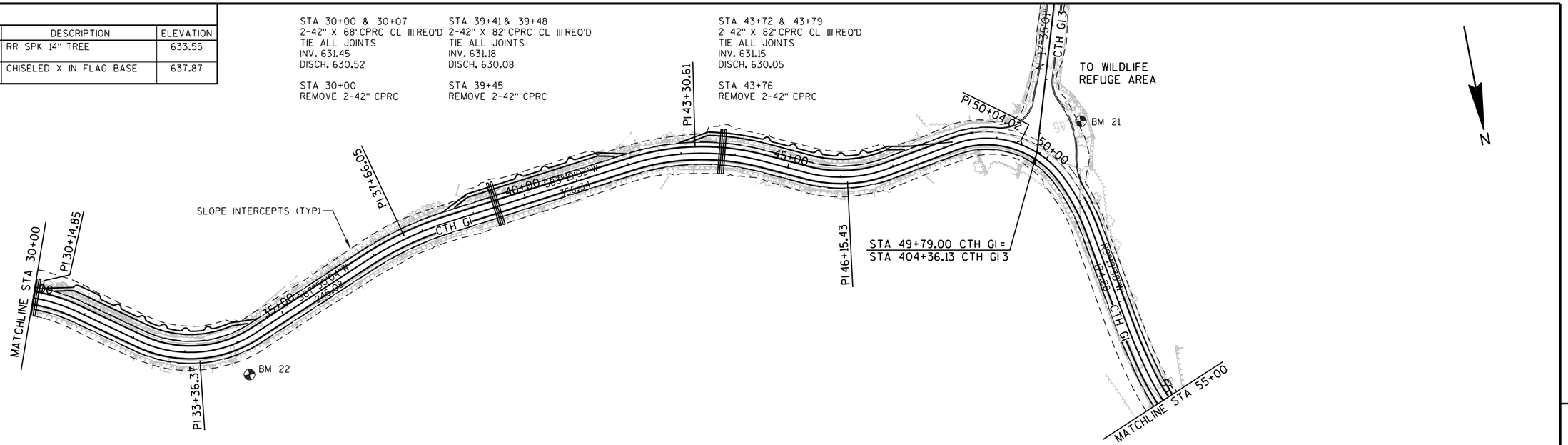
STA 30+00
REMOVE 2-42" CPRC

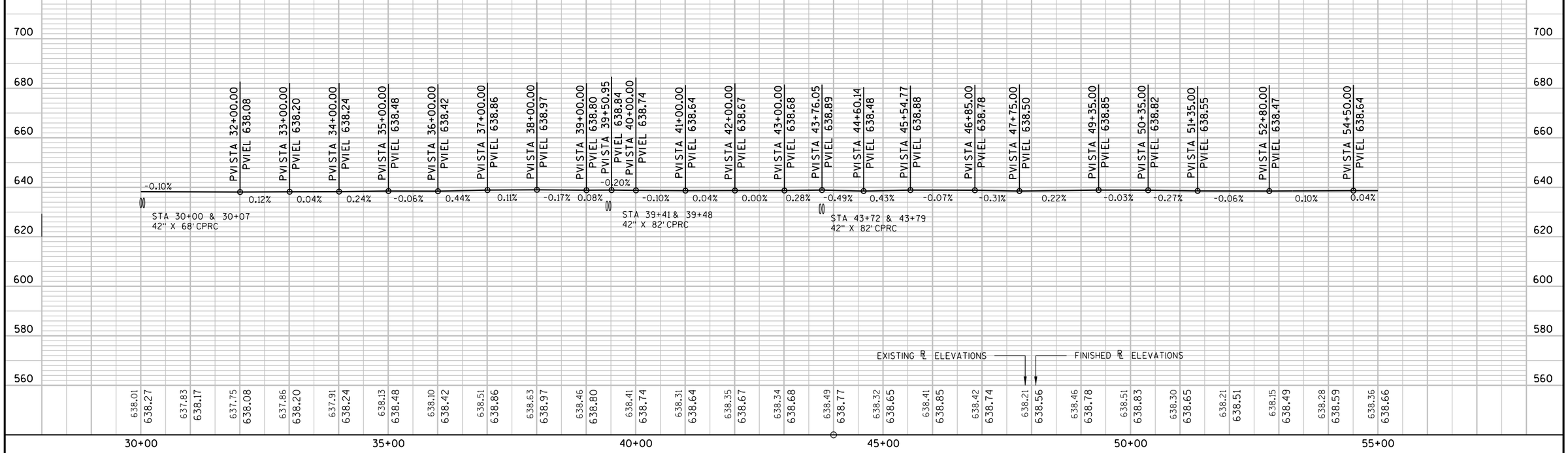
STA 39+41 & 39+48
2-42" X 82' CPRC CL III REQ'D
TIE ALL JOINTS
INV. 631.18
DISCH. 630.08

STA 39+45
REMOVE 2-42" CPRC

STA 43+72 & 43+79
2 42" X 82' CPRC CL III REQ'D
TIE ALL JOINTS
INV. 631.15
DISCH. 630.05

STA 43+76
REMOVE 2-42" CPRC





PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	PLAN & PROFILE	SHEET 87	E

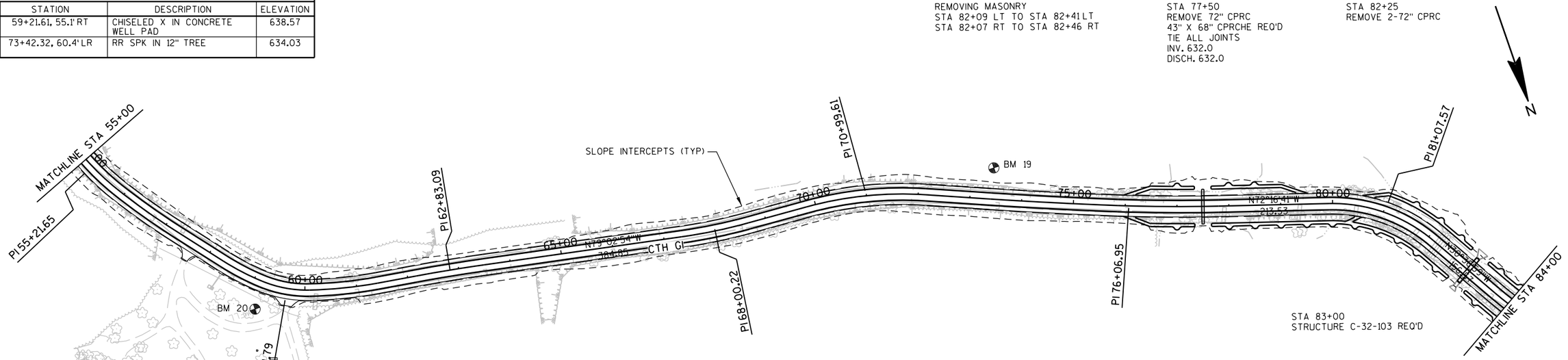
BENCHMARK TABLE

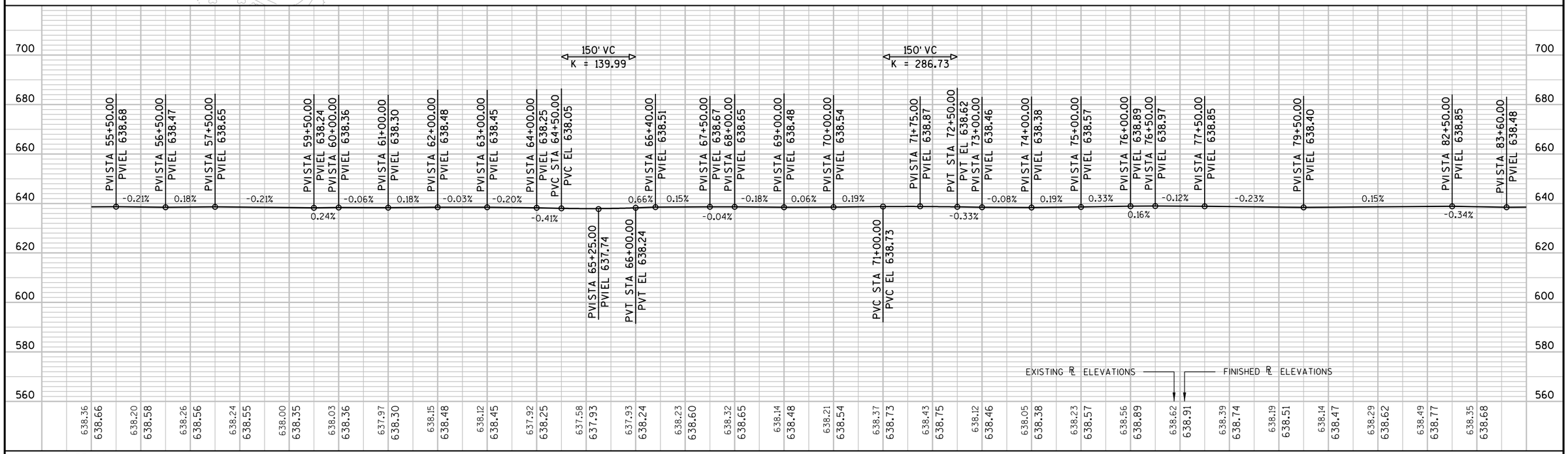
NO.	STATION	DESCRIPTION	ELEVATION
20	59+21.61, 55.1' RT	CHISELED X IN CONCRETE WELL PAD	638.57
19	73+42.32, 60.4' LR	RR SPK IN 12" TREE	634.03

REMOVING MASONRY
STA 82+09 LT TO STA 82+41 LT
STA 82+07 RT TO STA 82+46 RT

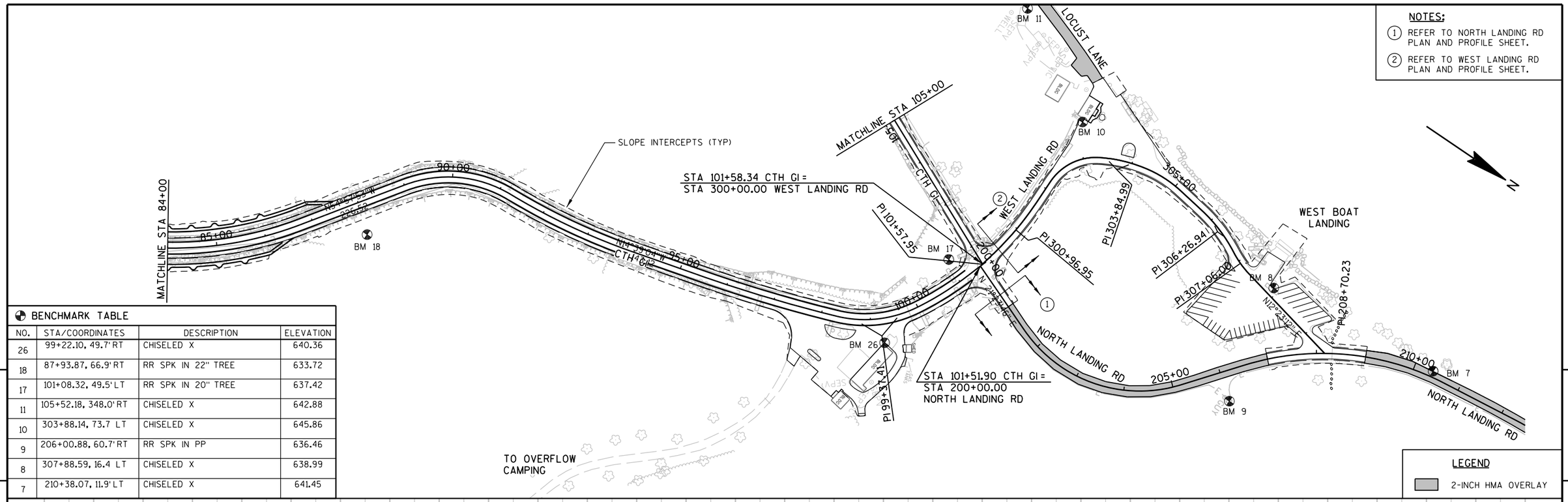
STA 77+50
REMOVE 72" CPRC
43" X 68" CPRCHE REQ'D
TIE ALL JOINTS
INV. 632.0
DISCH. 632.0

STA 82+25
REMOVE 2-72" CPRC

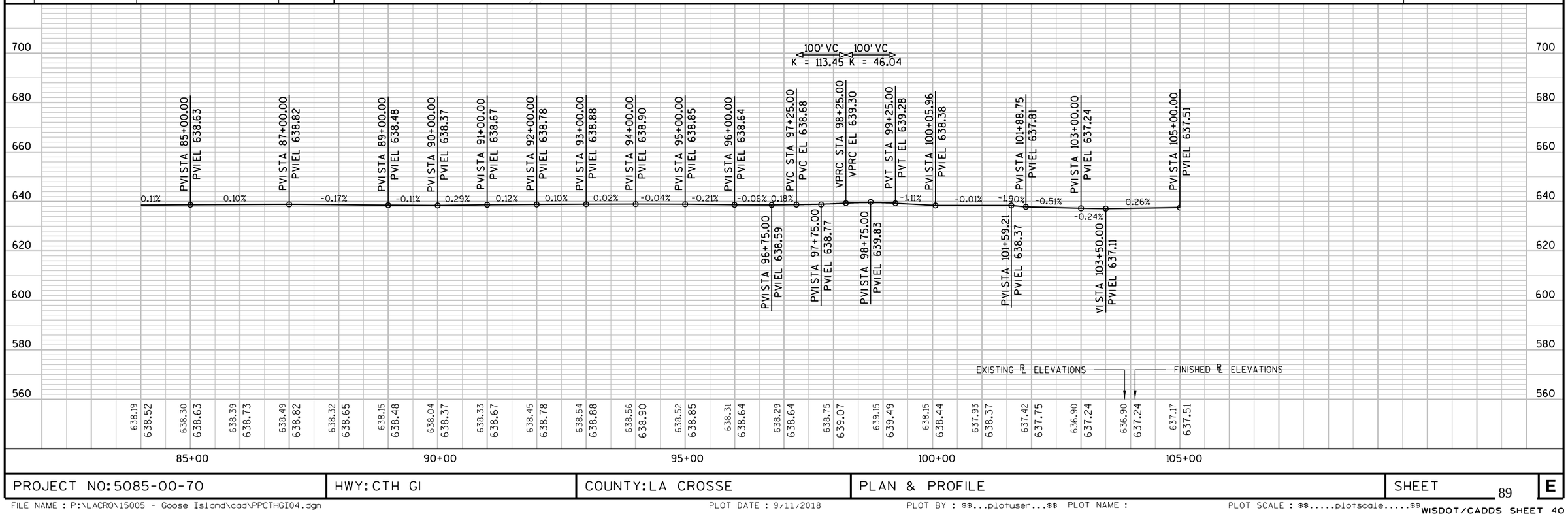




PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	PLAN & PROFILE	SHEET 88	E



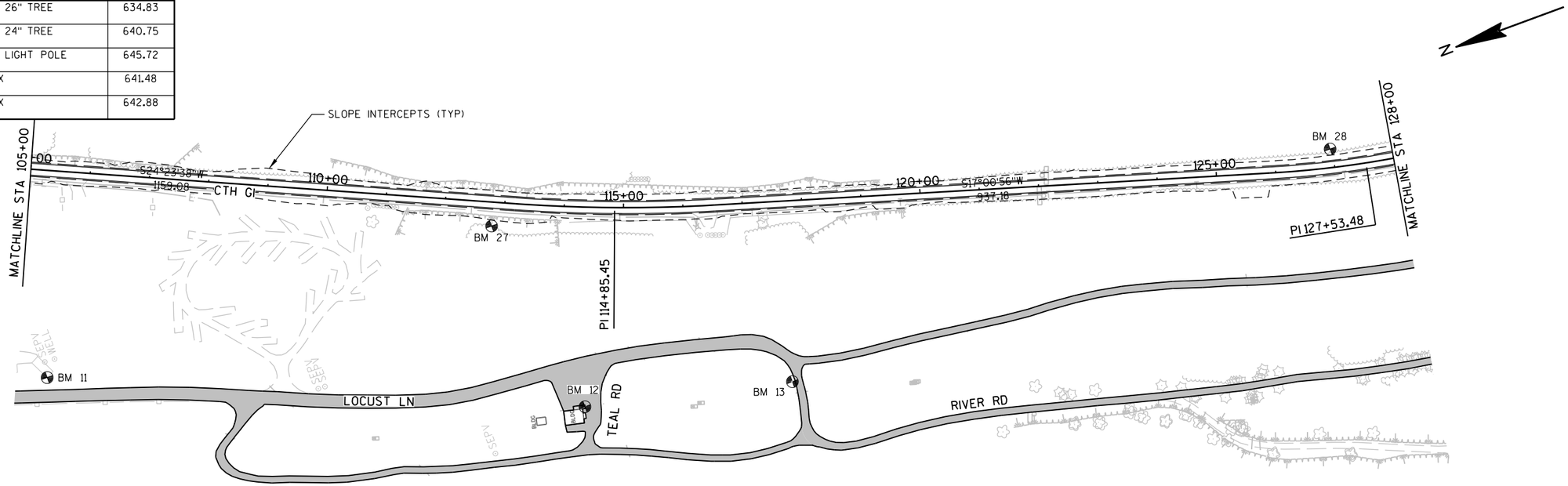
BENCHMARK TABLE			
NO.	STA/COORDINATES	DESCRIPTION	ELEVATION
26	99+22.10, 49.7' RT	CHISELED X	640.36
18	87+93.87, 66.9' RT	RR SPK IN 22" TREE	633.72
17	101+08.32, 49.5' LT	RR SPK IN 20" TREE	637.42
11	105+52.18, 348.0' RT	CHISELED X	642.88
10	303+88.14, 73.7 LT	CHISELED X	645.86
9	206+00.88, 60.7' RT	RR SPK IN PP	636.46
8	307+88.59, 16.4 LT	CHISELED X	638.99
7	210+38.07, 11.9' LT	CHISELED X	641.45

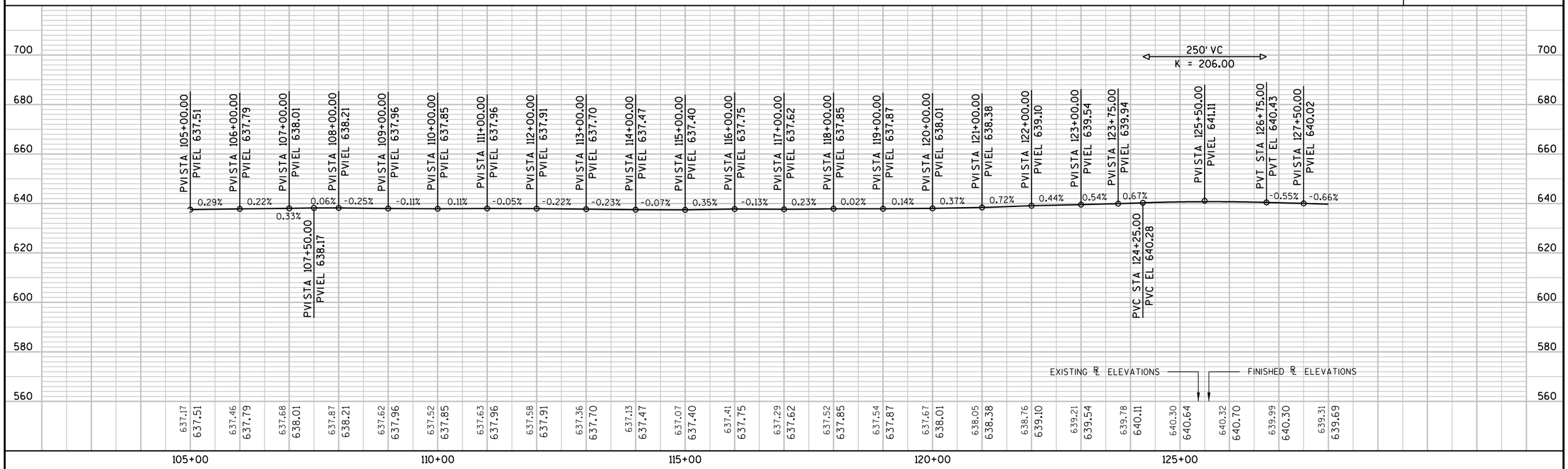


PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	PLAN & PROFILE	SHEET 89	E

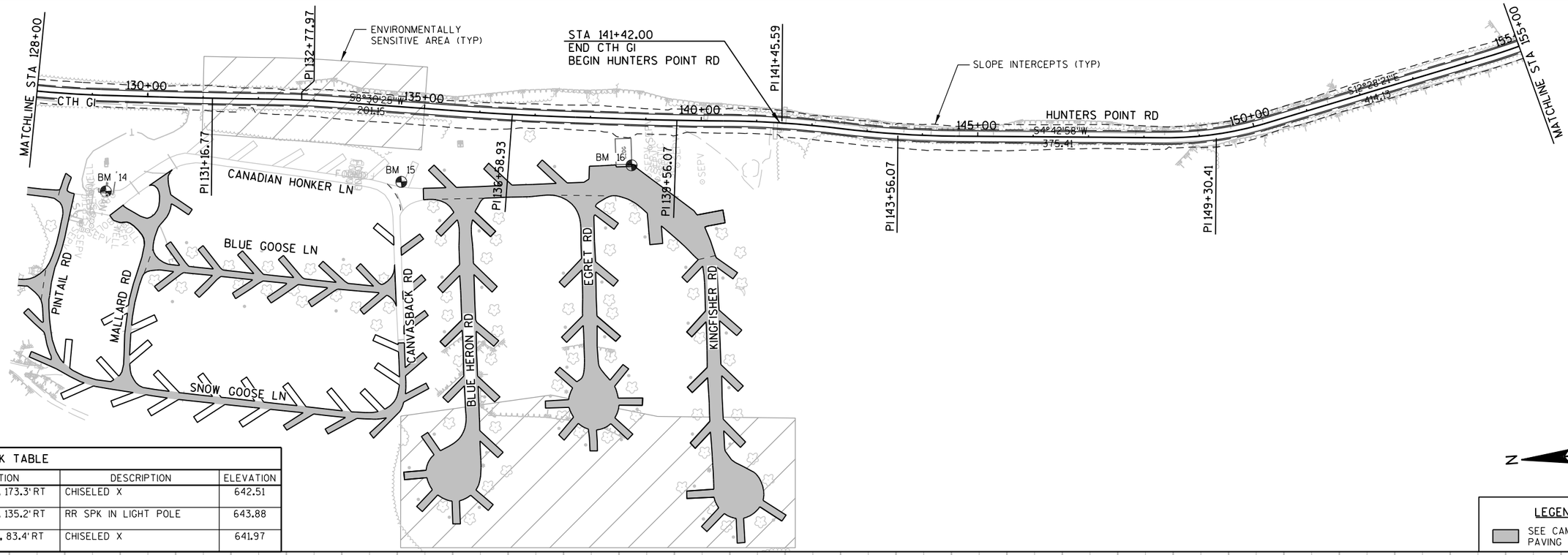
BENCHMARK TABLE

NO.	STATION	DESCRIPTION	ELEVATION
27	112+80.56, 40.3' RT	RR SPK IN 26" TREE	634.83
28	126+95.75, 31.2' LT	RR SPK IN 24" TREE	640.75
13	117+67.22, 304.5' RT	RR SPK IN LIGHT POLE	645.72
12	114+42.84, 336.1' RT	CHISELED X	641.48
11	105+52.18, 348.0' RT	CHISELED X	642.88





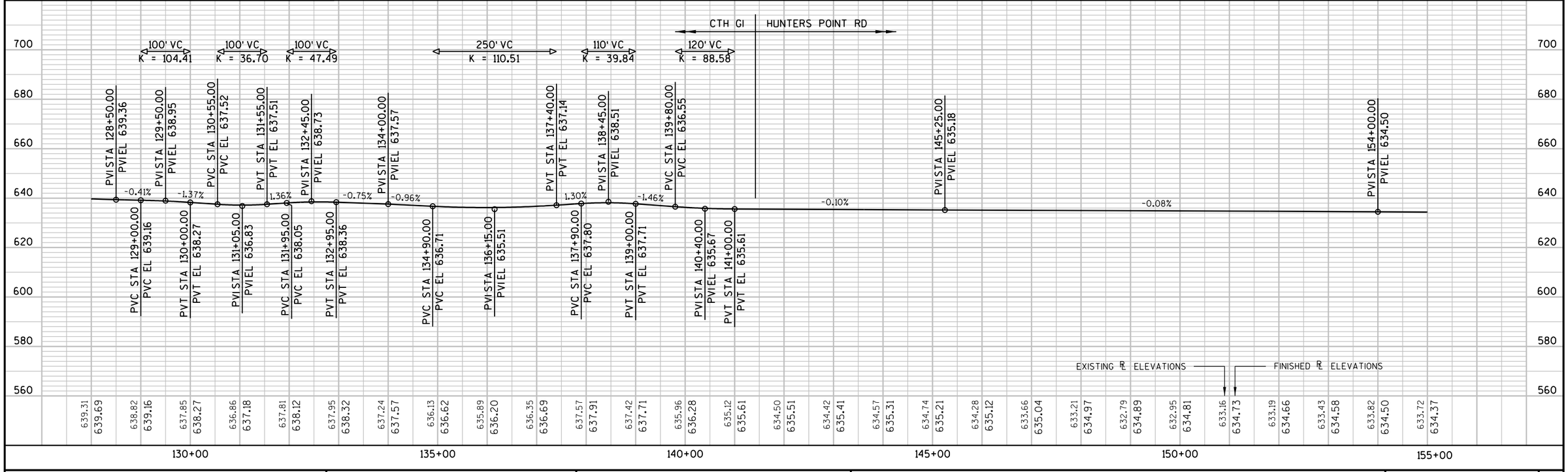
PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	PLAN & PROFILE	SHEET 90	E



5

BENCHMARK TABLE			
NO.	STATION	DESCRIPTION	ELEVATION
14	129+15.36, 173.3' RT	CHISELED X	642.51
15	134+68.16, 135.2' RT	RR SPK IN LIGHT POLE	643.88
16	138+71.83, 83.4' RT	CHISELED X	641.97

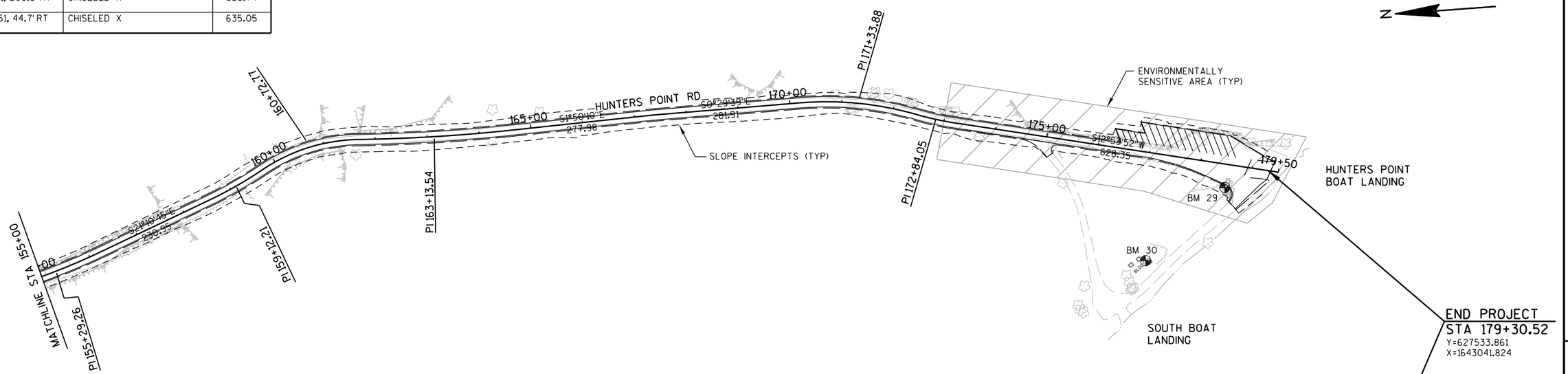
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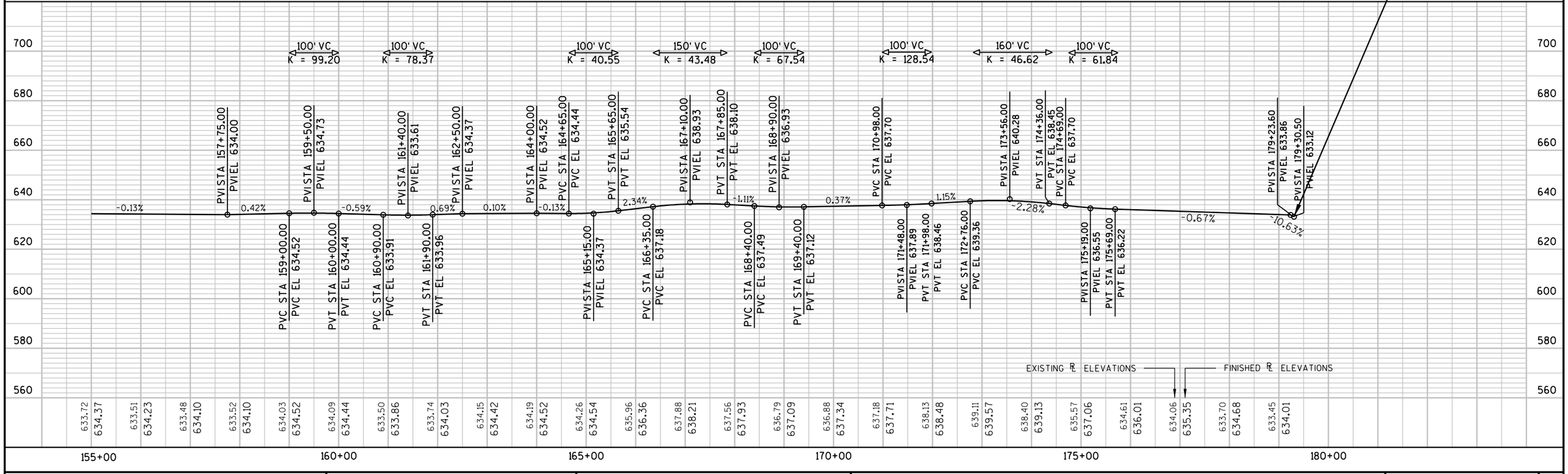


PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	PLAN & PROFILE	SHEET 91	E

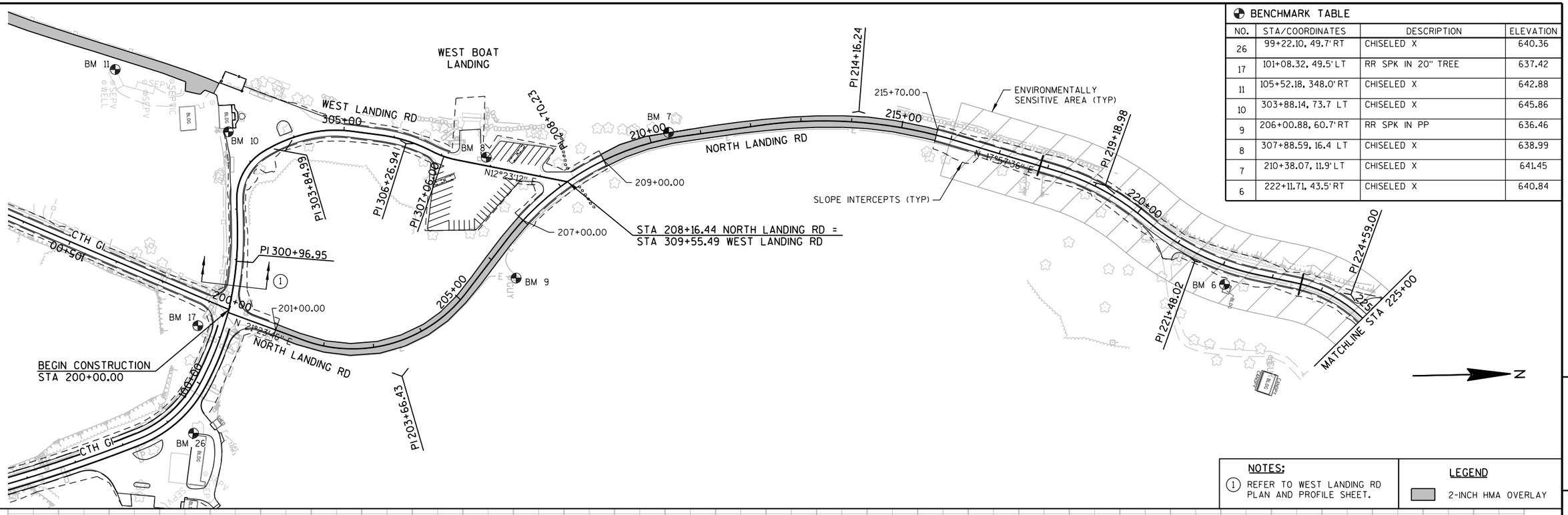
BENCHMARK TABLE

NO.	STATION	DESCRIPTION	ELEVATION
30	177+23.41, 206.5' RT	CHISELED X	636.74
29	178+52.51, 44.7' RT	CHISELED X	635.05





PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	PLAN & PROFILE	SHEET 92	E



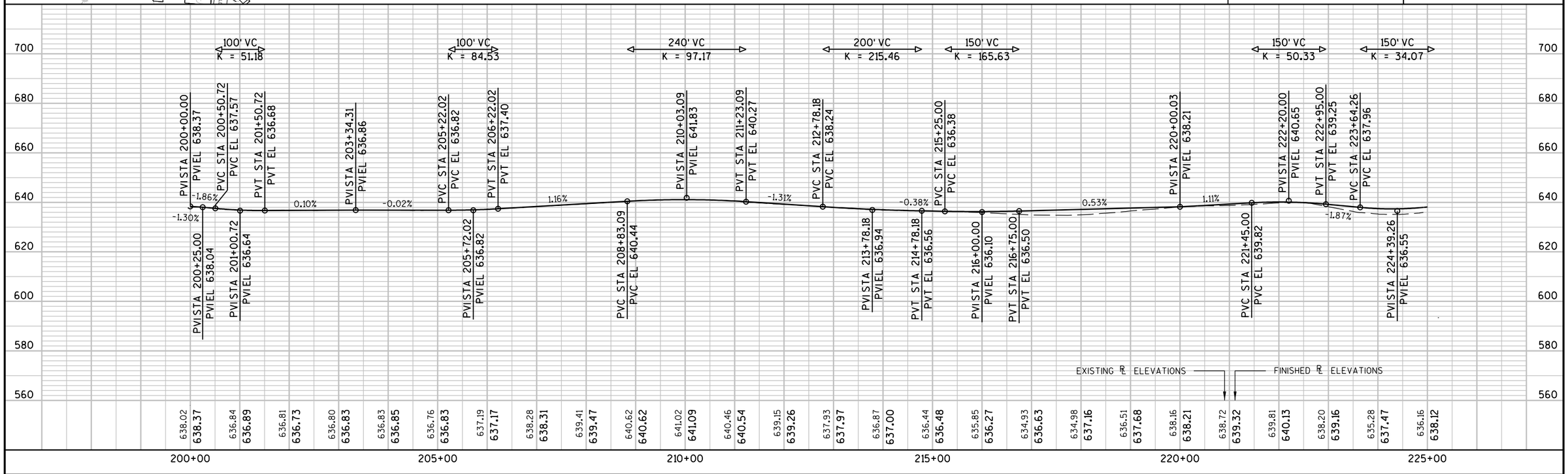
BENCHMARK TABLE			
NO.	STA/COORDINATES	DESCRIPTION	ELEVATION
26	99+22.10, 49.7' RT	CHISELED X	640.36
17	101+08.32, 49.5' LT	RR SPK IN 20" TREE	637.42
11	105+52.18, 348.0' RT	CHISELED X	642.88
10	303+88.14, 73.7 LT	CHISELED X	645.86
9	206+00.88, 60.7' RT	RR SPK IN PP	636.46
8	307+88.59, 16.4 LT	CHISELED X	638.99
7	210+38.07, 11.9' LT	CHISELED X	641.45
6	222+11.71, 43.5' RT	CHISELED X	640.84

NOTES:

(1) REFER TO WEST LANDING RD PLAN AND PROFILE SHEET.

LEGEND

2-INCH HMA OVERLAY

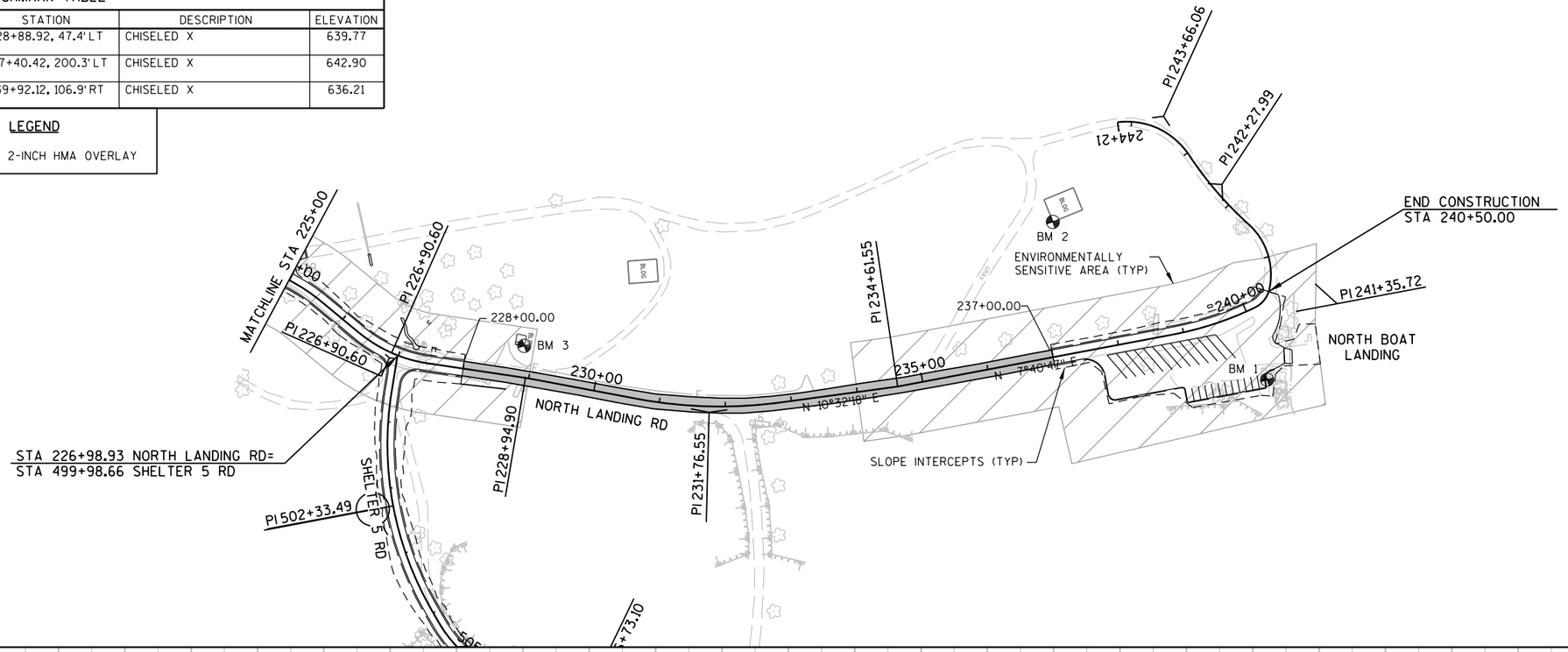


PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	PLAN & PROFILE	SHEET 93	E

BENCHMARK TABLE			
NO.	STATION	DESCRIPTION	ELEVATION
3	228+88.92, 47.4'LT	CHISELED X	639.77
2	237+40.42, 200.3'LT	CHISELED X	642.90
1	239+92.12, 106.9'RT	CHISELED X	636.21

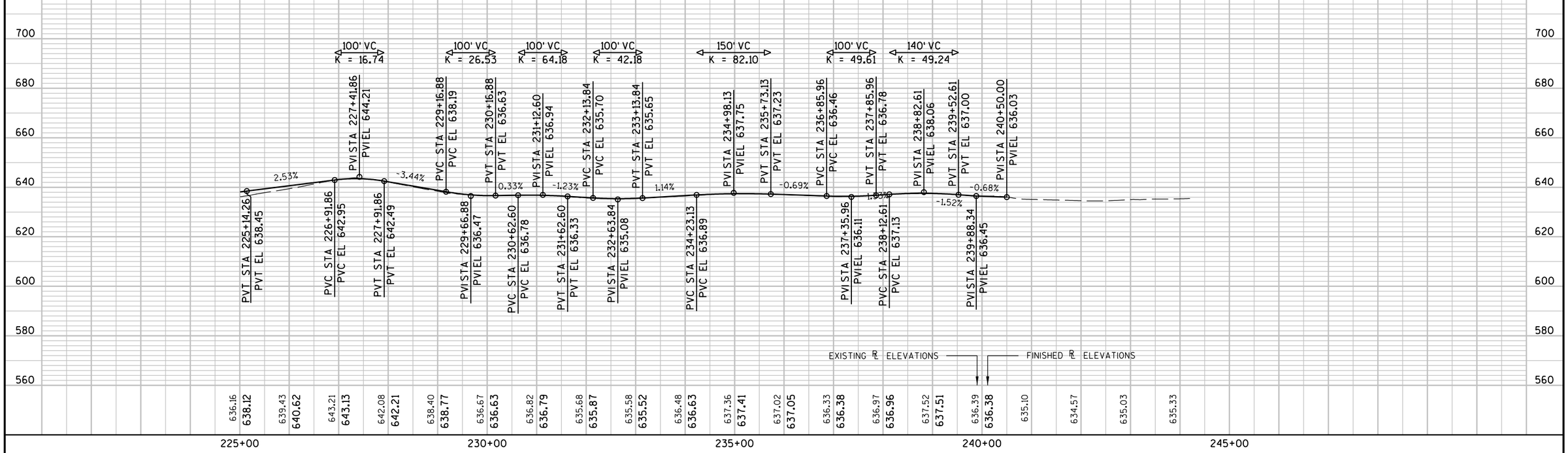
LEGEND

2-INCH HMA OVERLAY

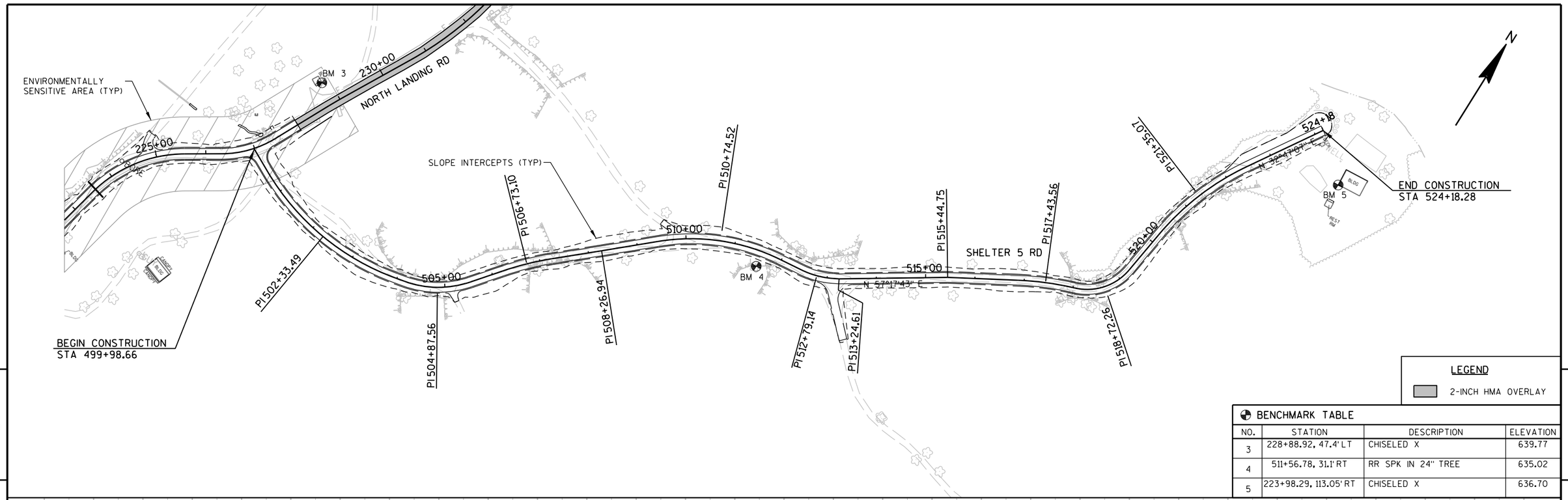


CURVE 13
PI STA. 243+66.06
Y=638612.7338
X=1644296.9801
R=111.44'
D= 51°24'45.40"
DELTA= 64°00'13.09" LT.
L=124.49'
T=69.64'

CURVE 12
PI STA. 242+27.99
Y=638648.7601
X=1644431.0600
R=534.58'
D= 10°43'04.14"
DELTA= 14°45'00.07" RT.
L=137.62'
T=69.19'



PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	PLAN & PROFILE	SHEET 94	E



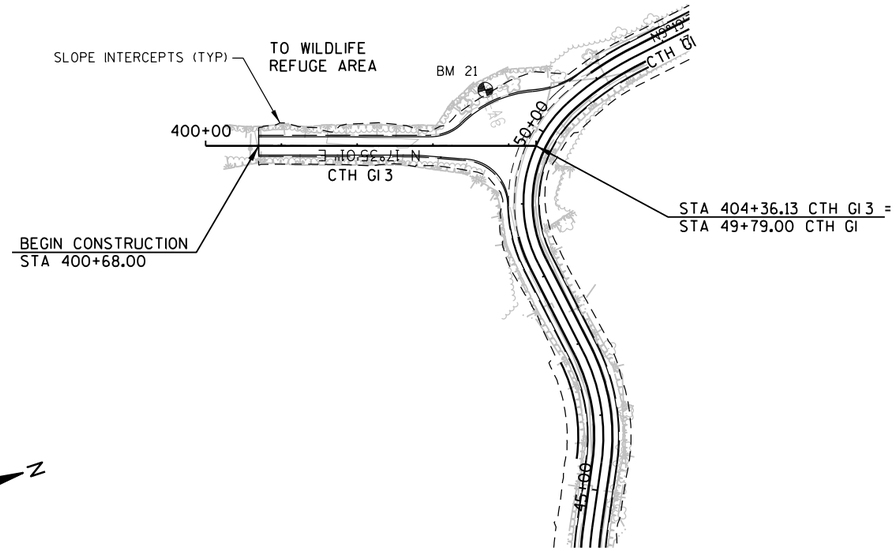
5

5

PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	PLAN & PROFILE	SHEET 95	E

BENCHMARK TABLE

NO.	STATION	DESCRIPTION	ELEVATION
21	50+4.32, 94.6'LT	CHISELED X FLAG BASE	637.87

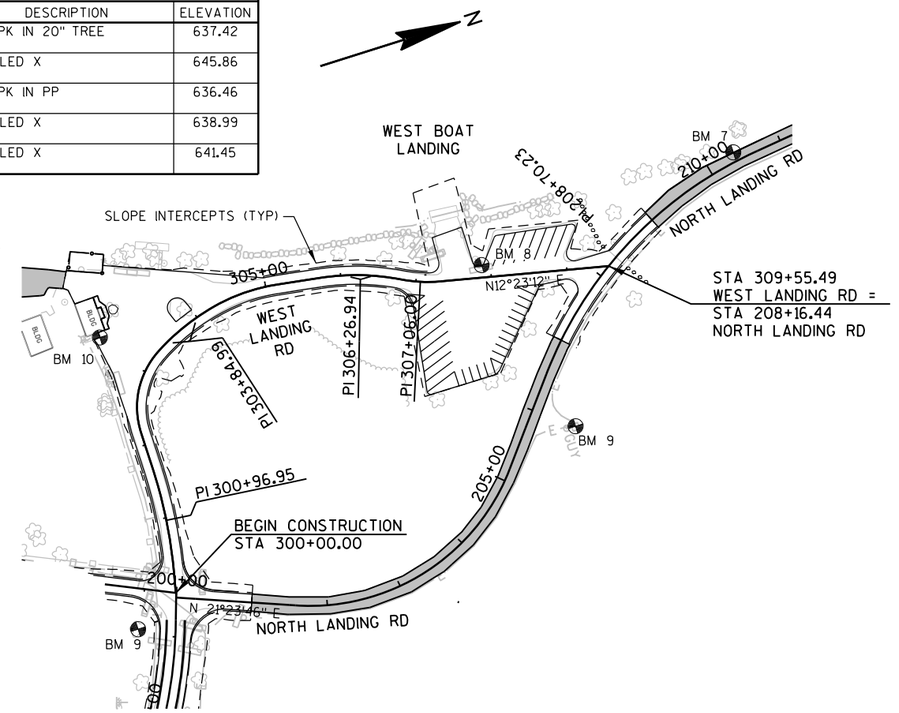


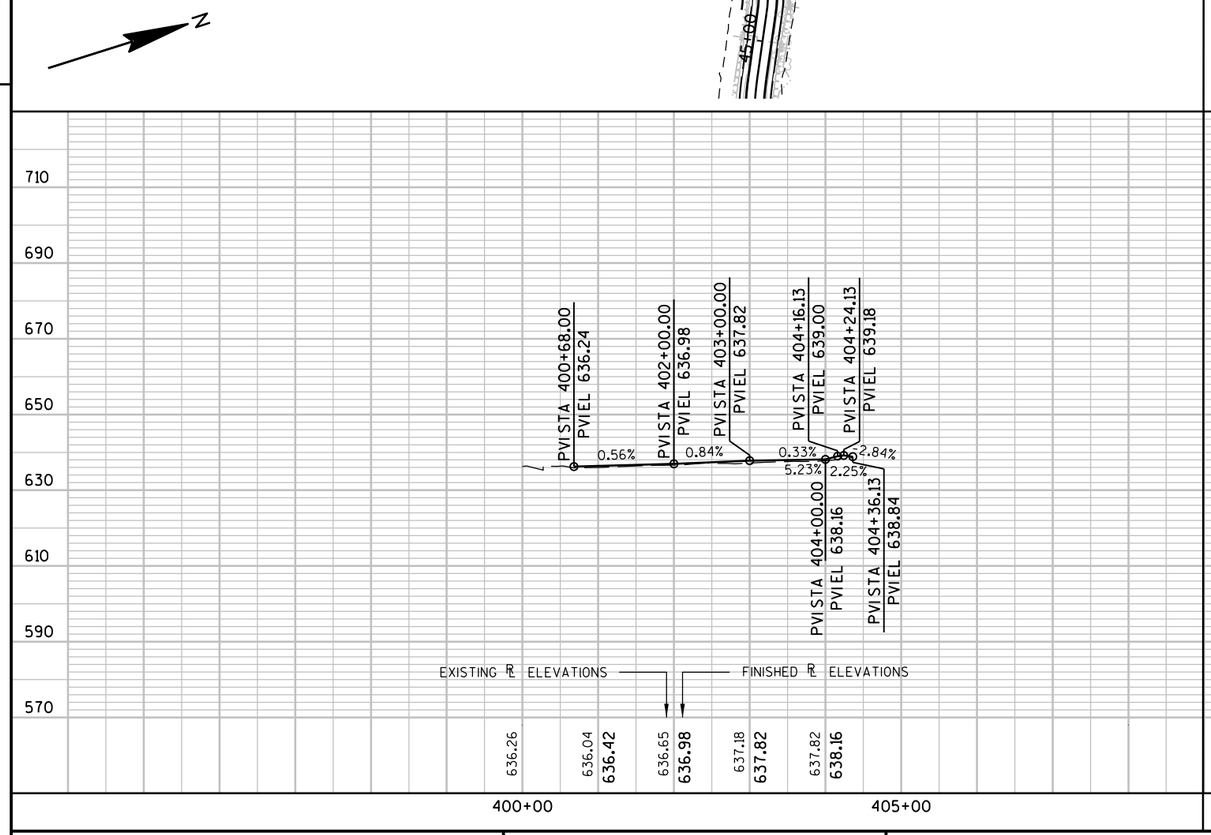
BENCHMARK TABLE

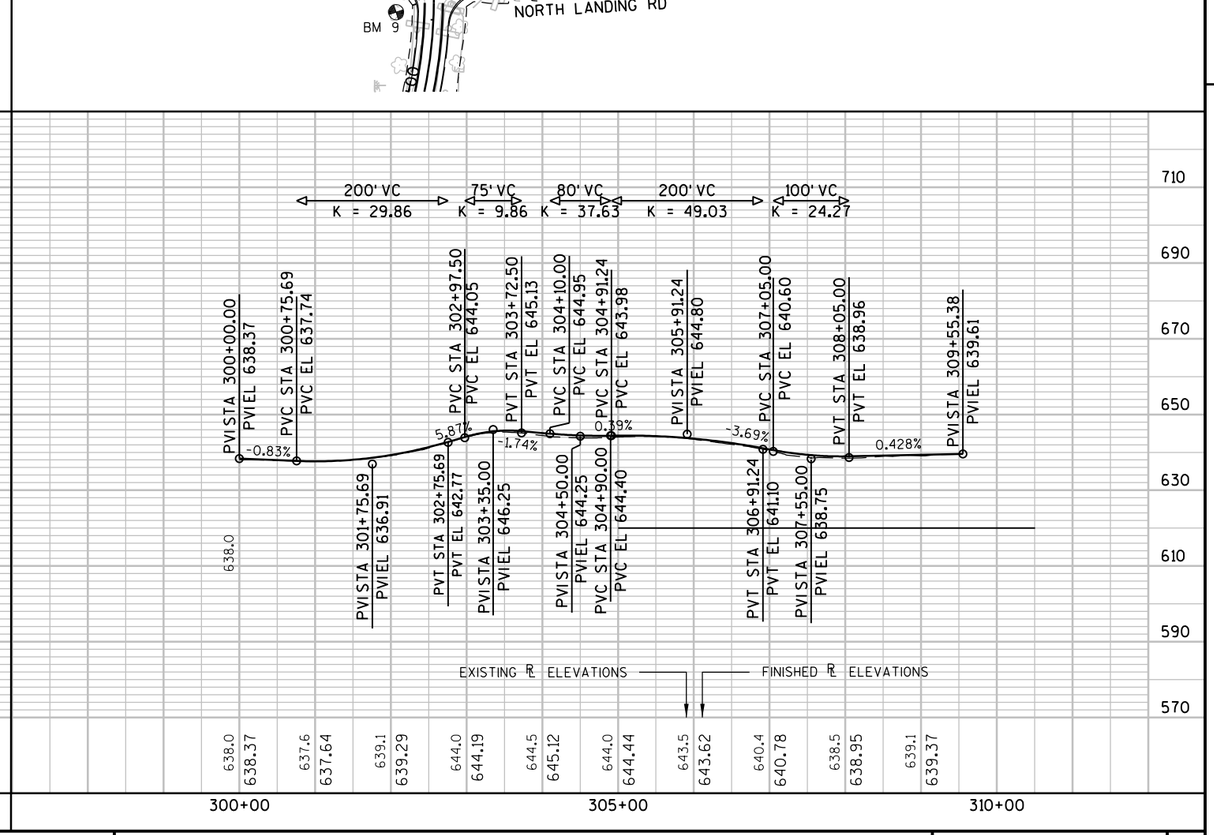
NO.	STATION	DESCRIPTION	ELEVATION
17	101+08.32, 49.5'LT	RR SPK IN 20" TREE	637.42
10	303+9.14, 73.7'LT	CHISELED X	645.86
9	206+00.88, 60.7'RT	RR SPK IN PP	636.46
8	307+88.59, 16.4'LT	CHISELED X	638.99
7	210+38.07, 11.9'LT	CHISELED X	641.45

LEGEND

2-INCH HMA OVERLAY



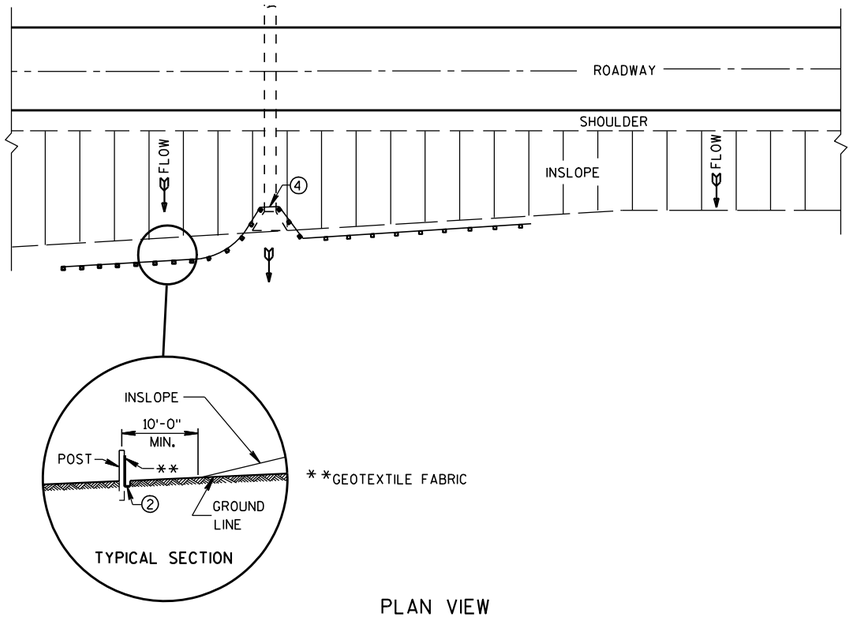




PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	PLAN & PROFILE	SHEET 96	E

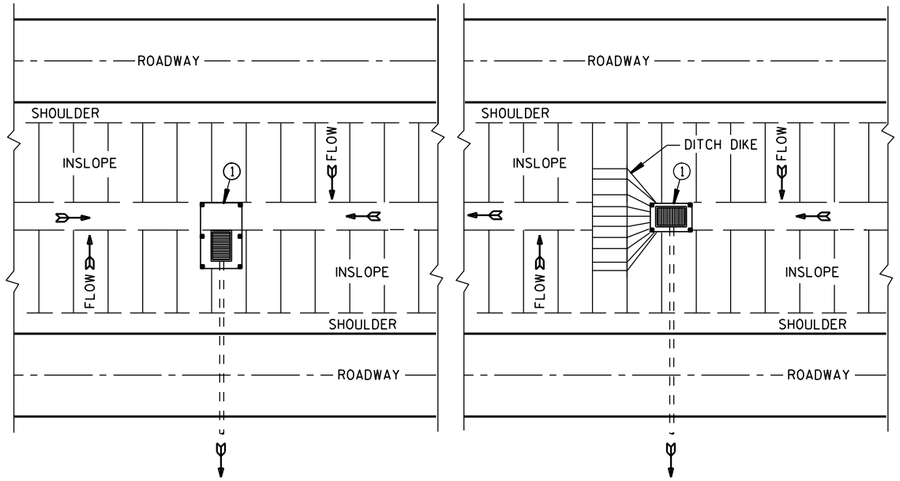
Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
08E12-01	SILT SCREEN
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
14B28-03	GUARDRAIL MOW STRIP
14B29-01	SAFETY EDGE
14B42-06A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-06	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D30-04A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-04B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-04C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



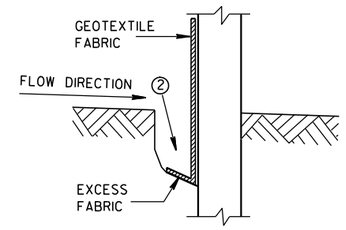
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

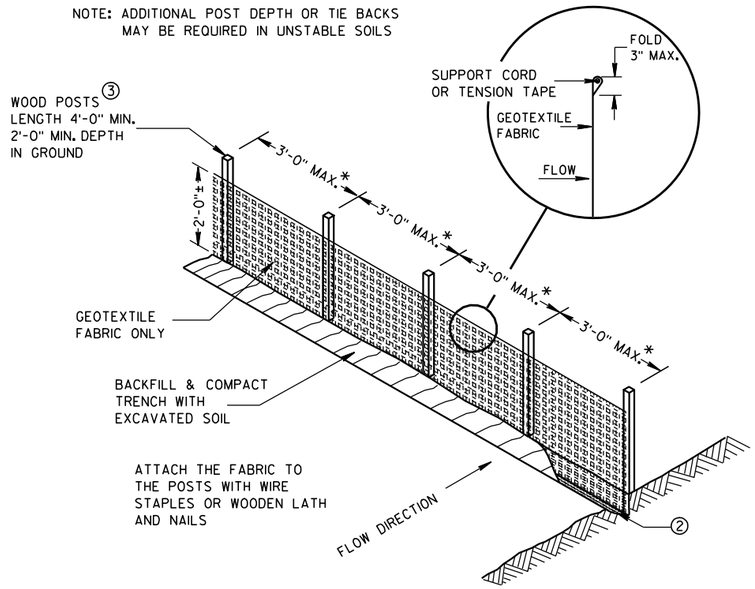
GENERAL NOTES

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

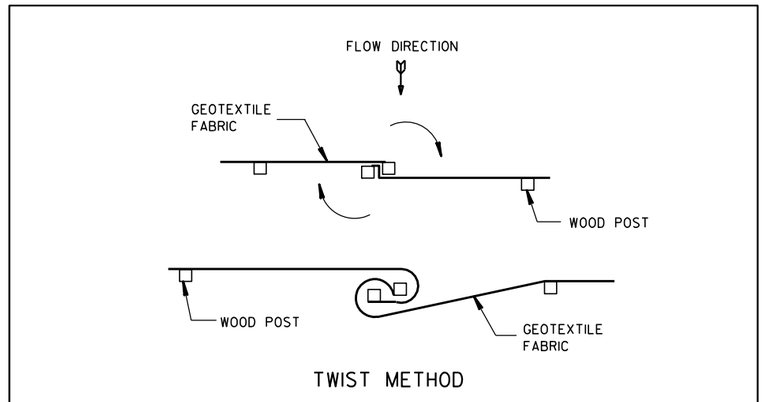
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" 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.



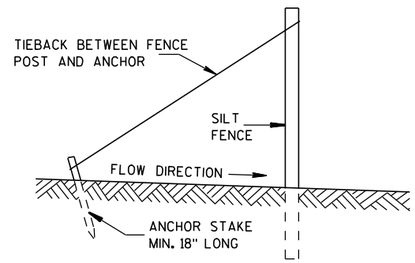
TRENCH DETAIL



SILT FENCE



JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

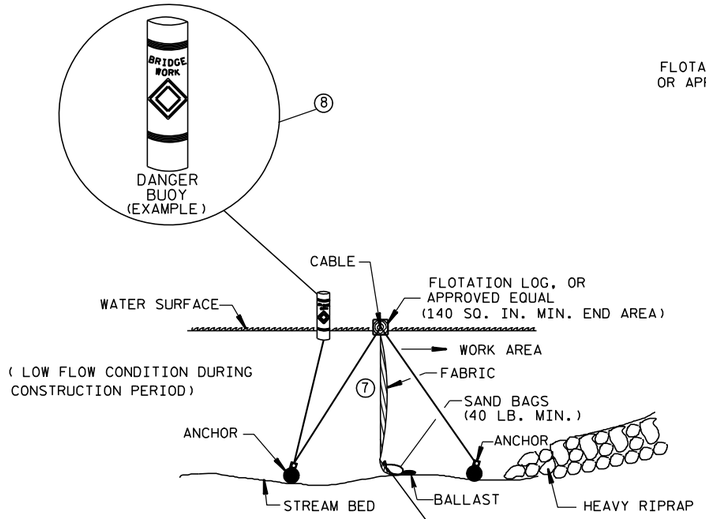
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

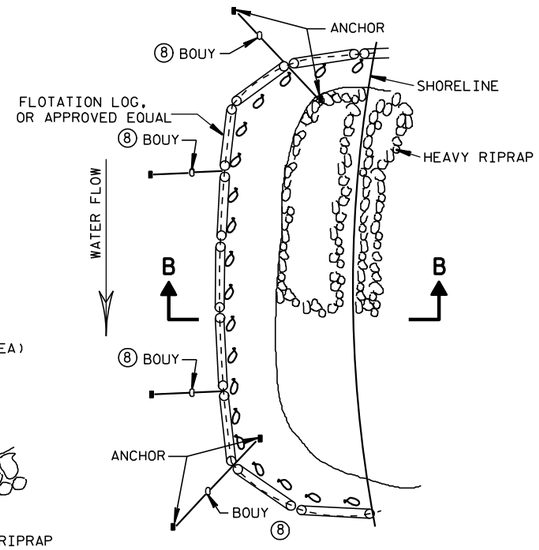
S.D.D. 8 E 9-6

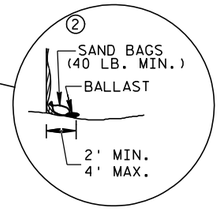
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S.D.D. 8 E 9-6

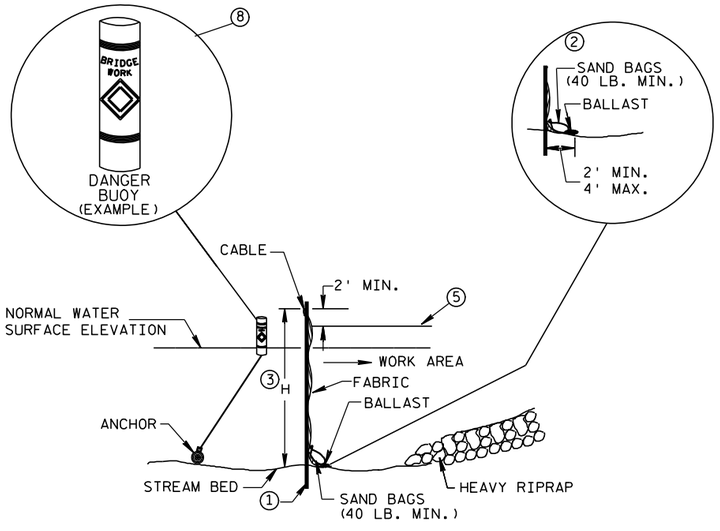


SECTION B-B

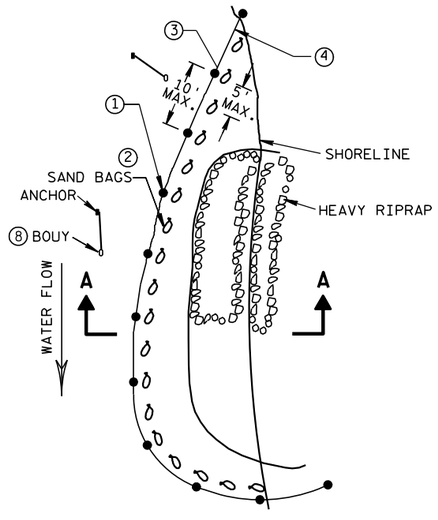




TURBIDITY BARRIER FLOAT ALTERNATIVE
CAUTION - SEE NOTE 6



SECTION A-A



PLAN VIEW

TURBIDITY BARRIER STANDARD POST INSTALLATION

TURBIDITY BARRIER PLACEMENT DETAILS

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.

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.

② SANDBAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.

③ WHEN BARRIER HEIGHT, H, EXCEEDS 8 FT., POST SPACING MAY NEED TO BE DECREASED.

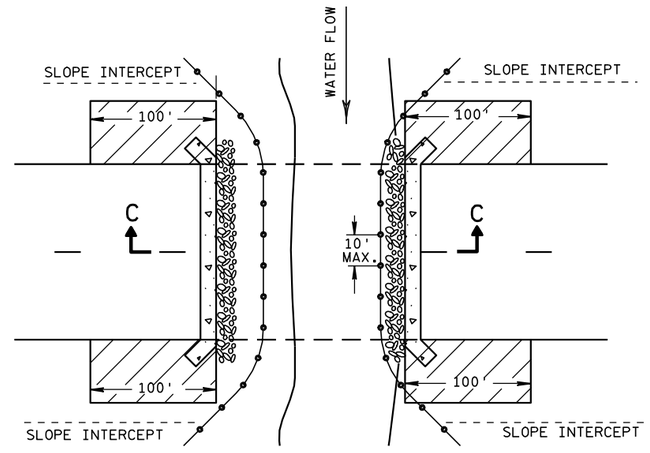
④ IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.

⑤ ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MIMIMUM BARRIER HEIGHT SHALL BE 2'GREATER THAN EITHER THE 02 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WICHEVER IS GREATER.

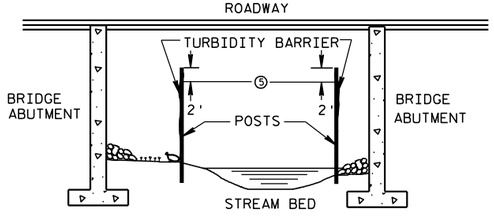
⑥ FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BED ROCK PREVENTS THE INSTALLATION OF POSTS.

⑦ ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.

⑧ USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



PLAN VIEW



SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
6/04/02 DATE	/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA	

6

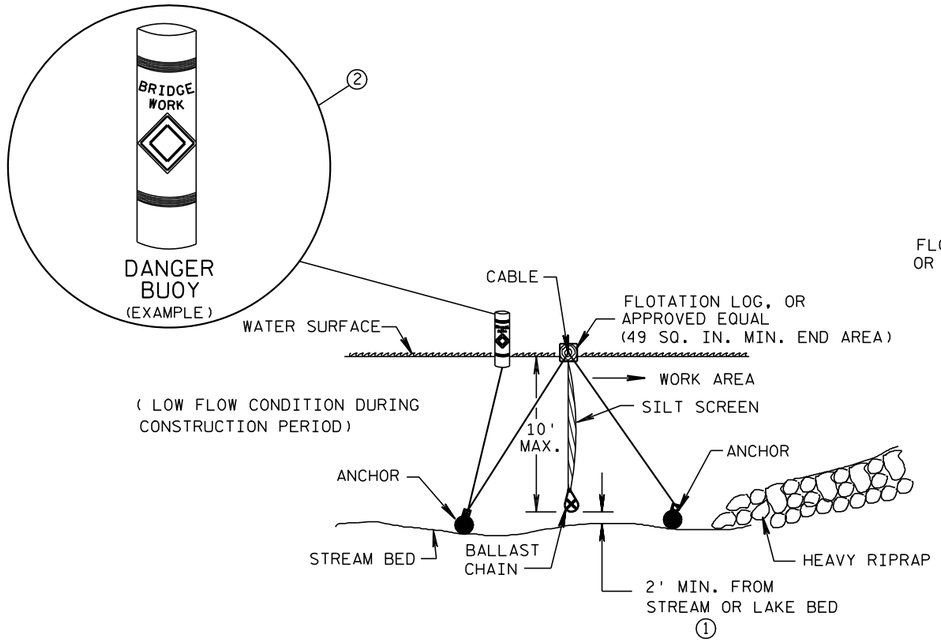
S.D.D. 8 E 11-2

GENERAL NOTES

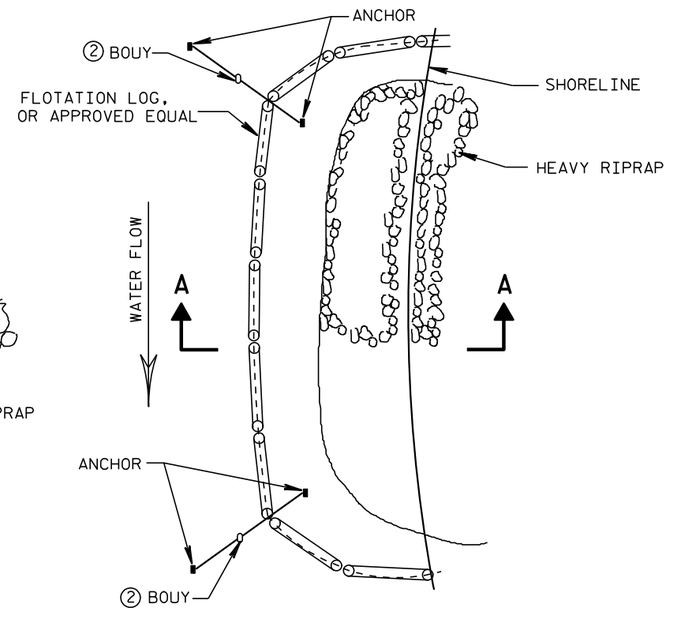
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

① 2' MINIMUM SHALL BE MAINTAINED DURING CONSTRUCTION PERIOD.

② USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



SECTION A-A

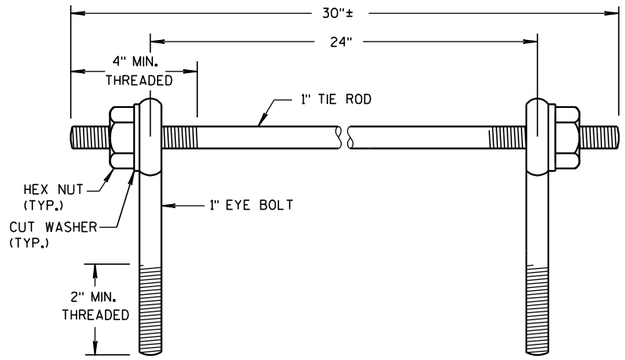


PLAN VIEW

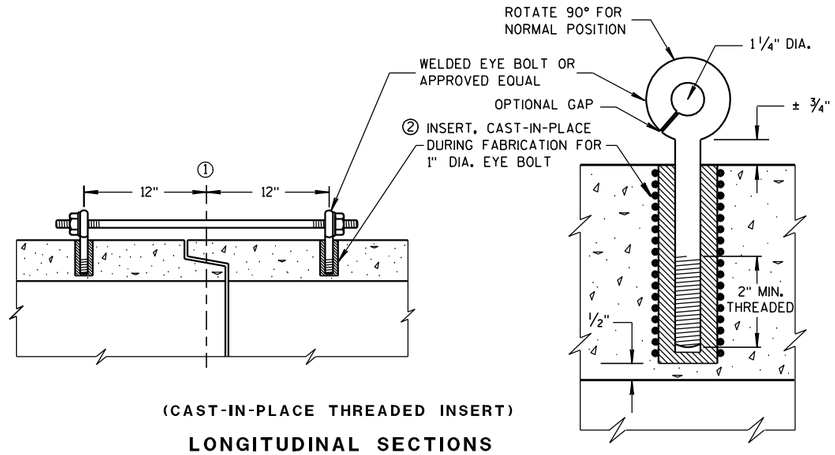
SILT SCREEN PLACEMENT DETAIL

SILT SCREEN
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED 6/04/02 DATE /S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER FHWA

6
S.D.D. 8 E 12-1



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 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 APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

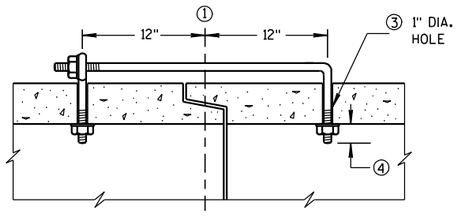
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

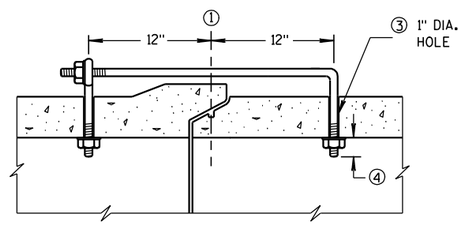
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

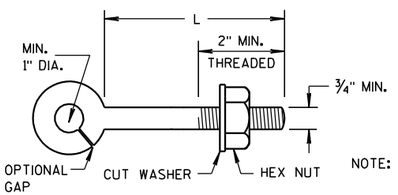


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

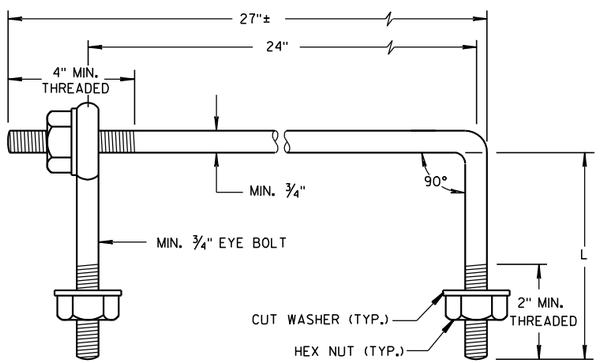
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

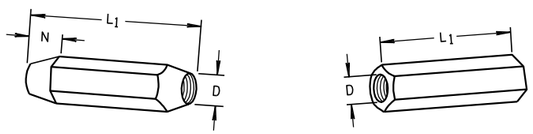
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

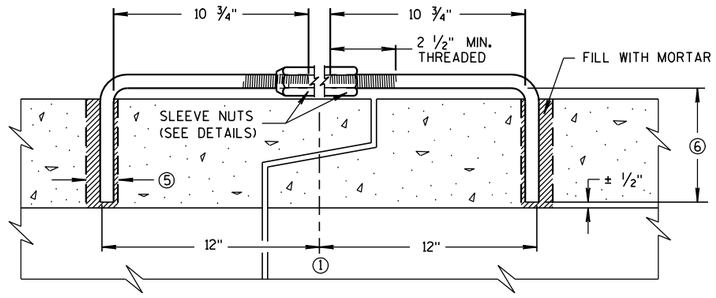
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

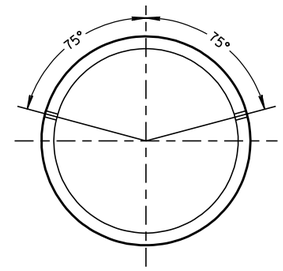
SLEEVE NUTS



LONGITUDINAL SECTION

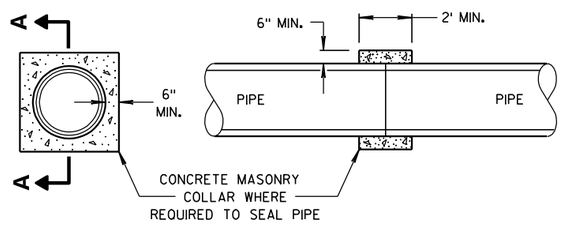
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

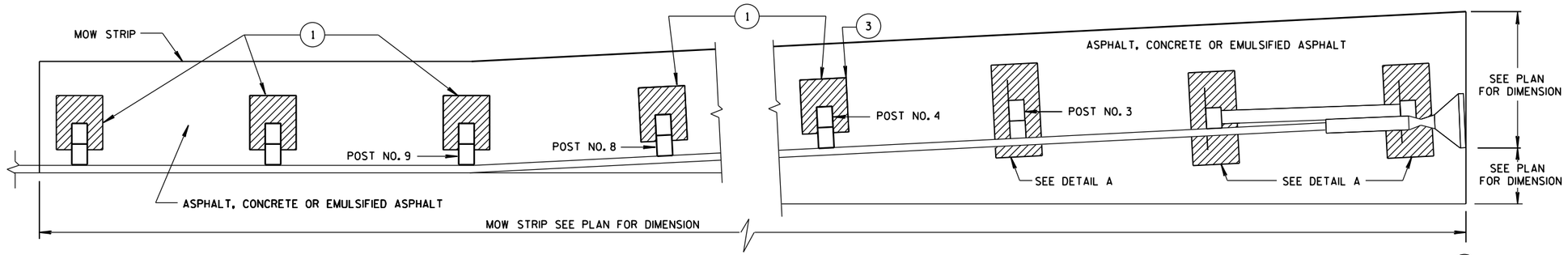
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
101
FHWA

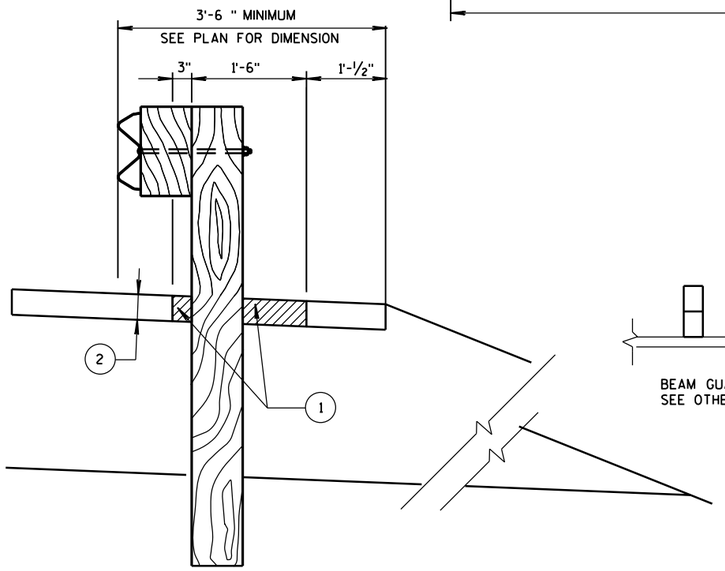
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S.D.D. 8 F 4-7

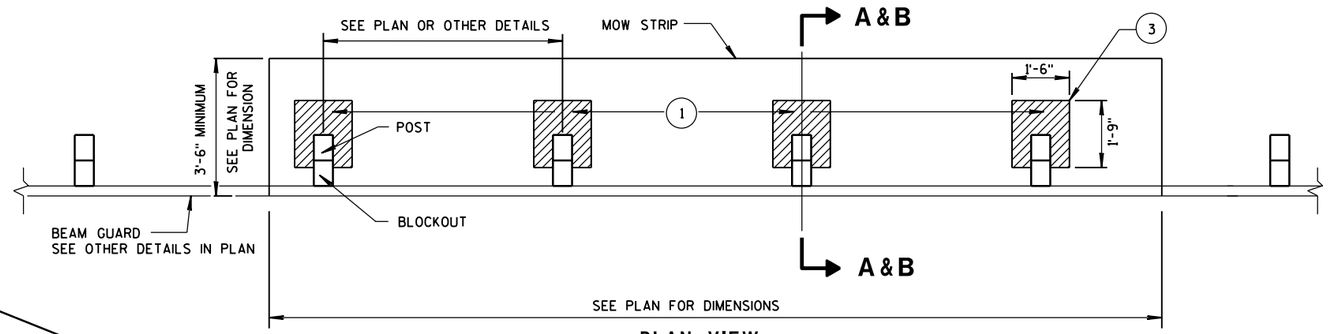


PLAN VIEW

MOW STRIP LAYOUT FOR ENERGY ABORBING TERMINAL

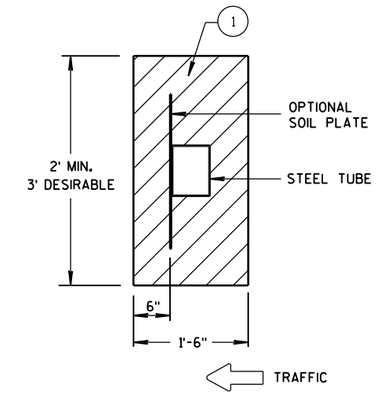


SECTION A-A

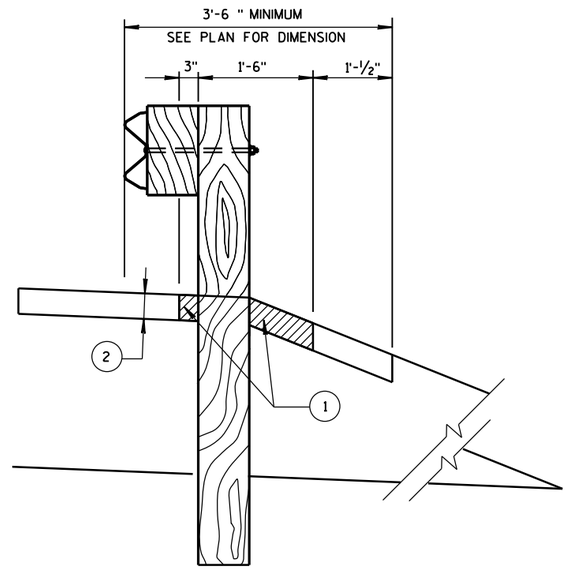


PLAN VIEW

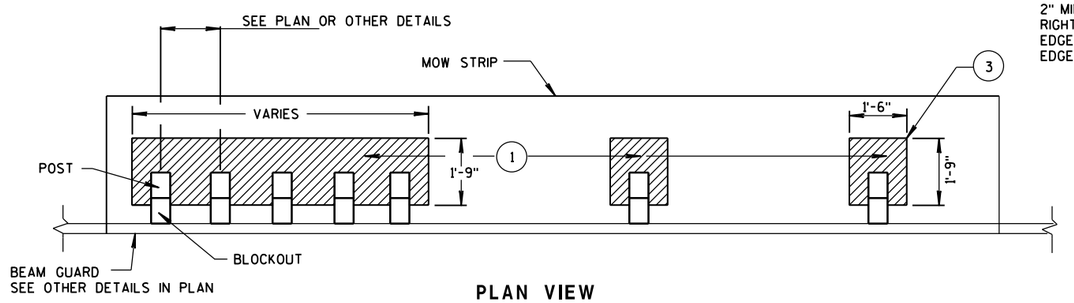
MOW STRIP FOR TYPICAL BLOCKOUT LAYOUT



DETAIL A

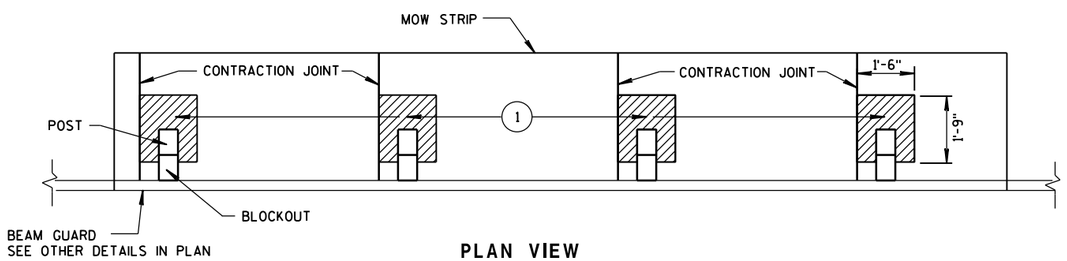


SECTION B-B



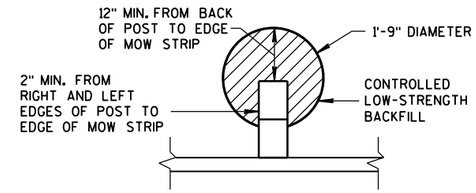
PLAN VIEW

MOW STRIP FOR TIGHT SPACING LAYOUT



PLAN VIEW

JOINT PLACEMENT FOR CONCRETE MOW STRIP



ALTERNATIVE HMA
MOW STRIP DESIGN

(1) CONTROLLED LOW-STRENGTH BACKFILL OR EMULSIFIED ASPHALT.

(2) DEPTH OF MOW STRIP:
ASPHALT - 4"
CONCRETE - 4"
EMULSIFIED ASPHALT - 1" OR LESS

(3) FOR EMULSIFIED ASPHALT MOW STRIP LEAVE OUTS NOT REQUIRED. (TYPICAL FOR ALL POSTS.)

GUARDRAIL MOW STRIP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

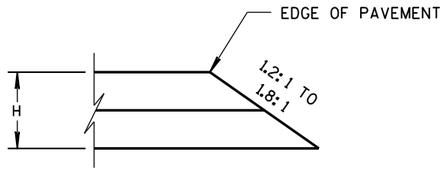
APPROVED
June 2014
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
NT
FHWA

6

S.D.D. 14 B 28-3

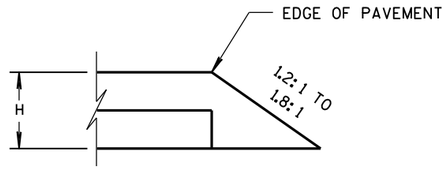
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S.D.D. 14 B 28-3



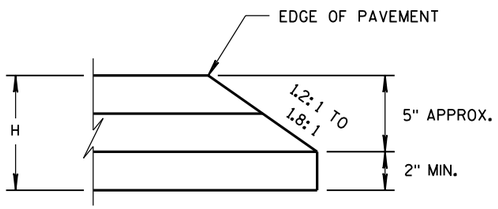
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



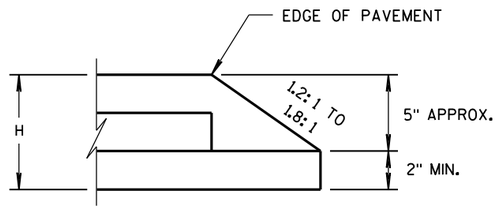
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

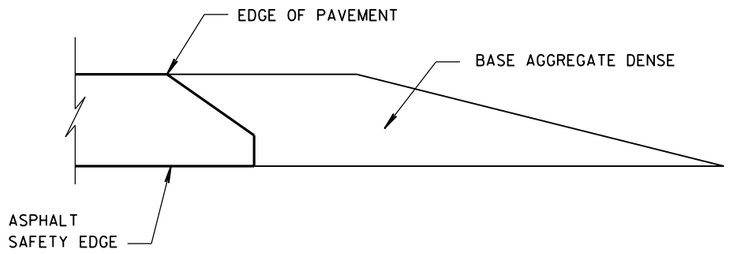
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

6

6

S.D.D. 14 B 29-1

S.D.D. 14 B 29-1

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/2012
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

1. WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

2. USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

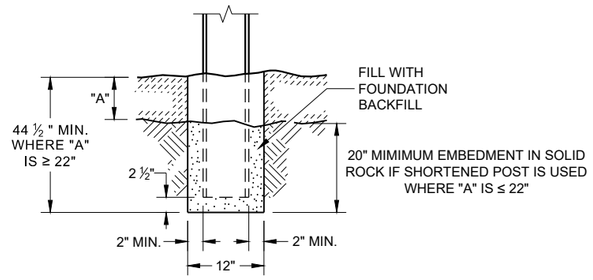
3. IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

4. WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

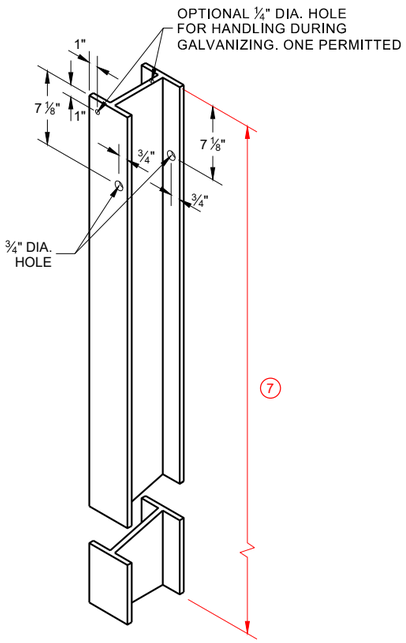
5. FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

6. WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

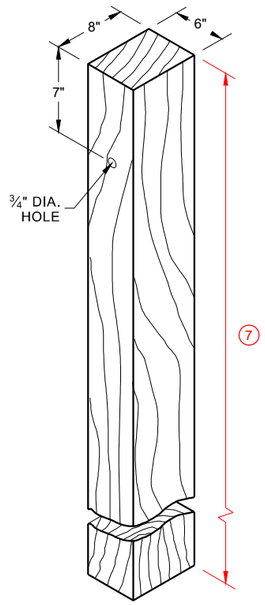
7. TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



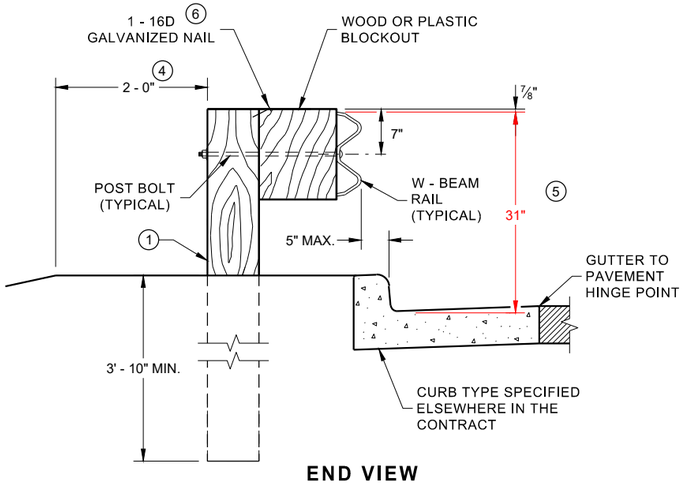
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



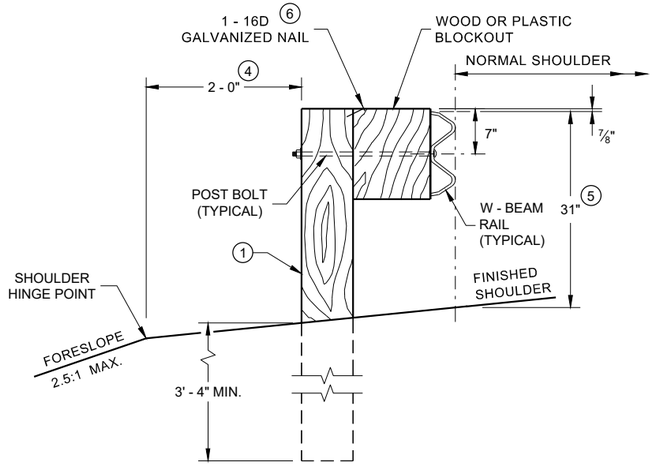
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



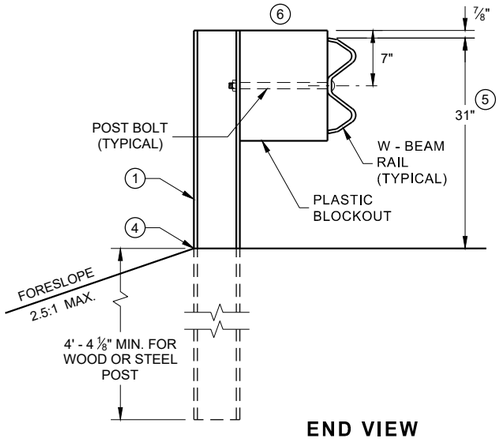
WOOD POST (6" X 8") NOMINAL (1)



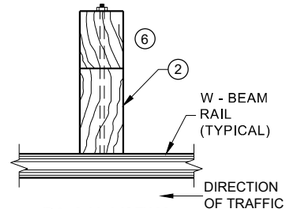
END VIEW
LOCATED ALONG A CURBED ROADWAY



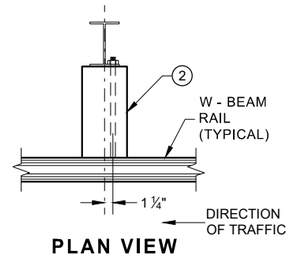
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



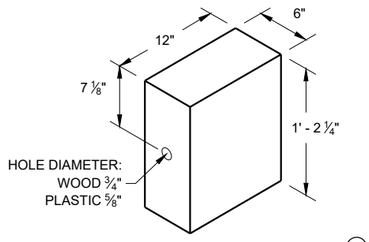
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



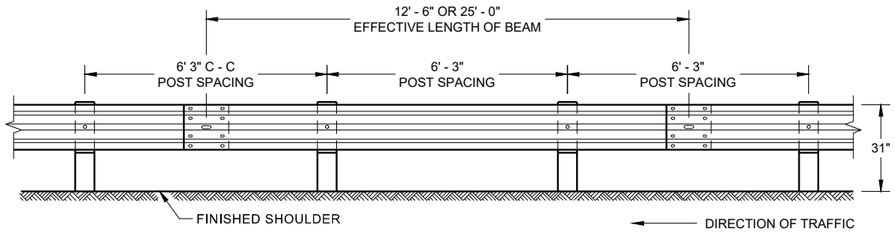
WOOD OR PLASTIC BLOCKOUT (2)

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

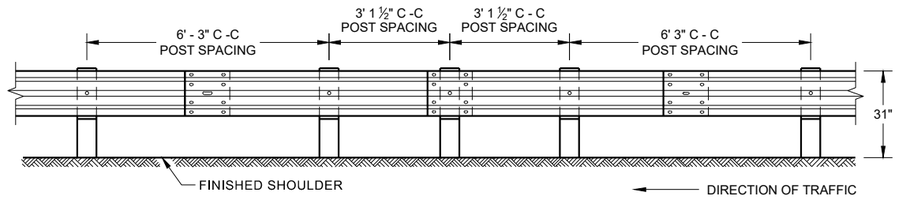
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B42 - 06a

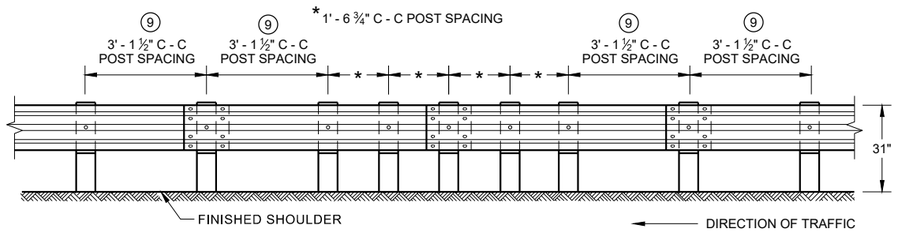
SDD 14B42 - 06a



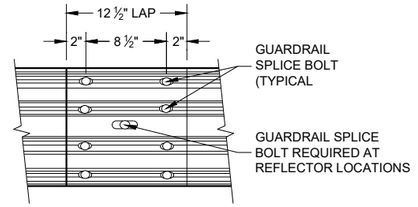
FRONT VIEW
POST SPACING STANDARD INSTALLATION



FRONT VIEW
HALF POST SPACING (HS) AND
HALF POST SPACING WITH LONGER POSTS (K)



FRONT VIEW
QUARTER POST SPACING (QS)



FRONT VIEW
MID-SPAN BEAM SPLICE

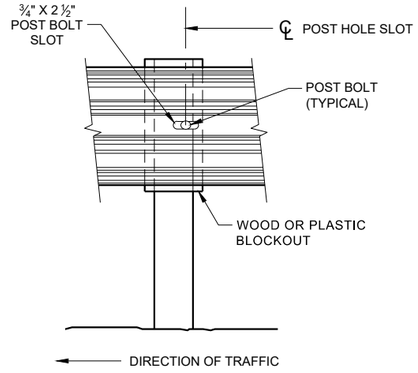
GENERAL NOTES

⑧ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.

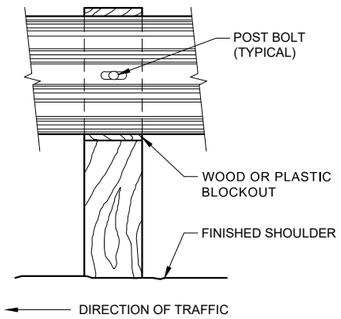
⑨ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A ¾" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

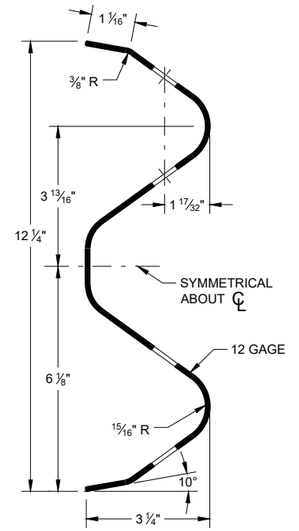
GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



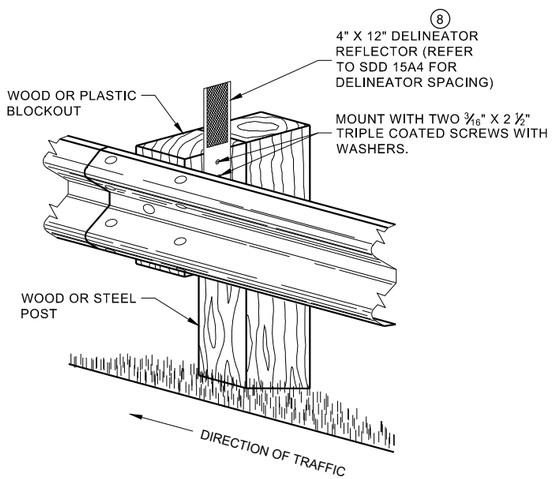
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL

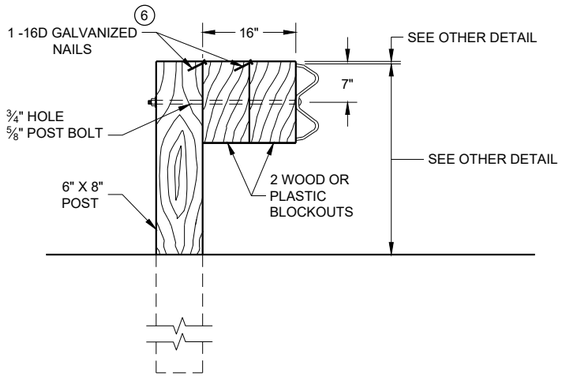


ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 14B42 - 06b

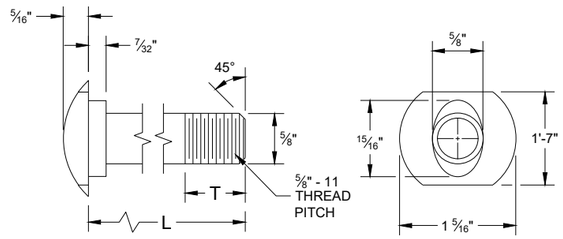


DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

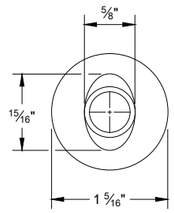
NOTE:

1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3⁄16".
2. IF THE BOLT EXTENDS MORE THAN ¼" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

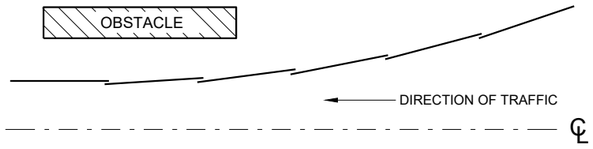


POST BOLT TABLE

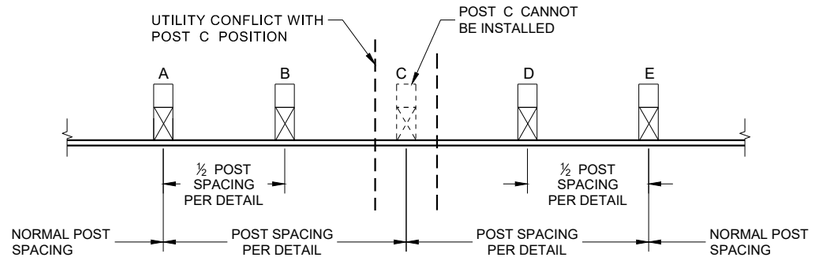
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1⁄16"
18"	4"
21"	4 1⁄16"
25"	4"



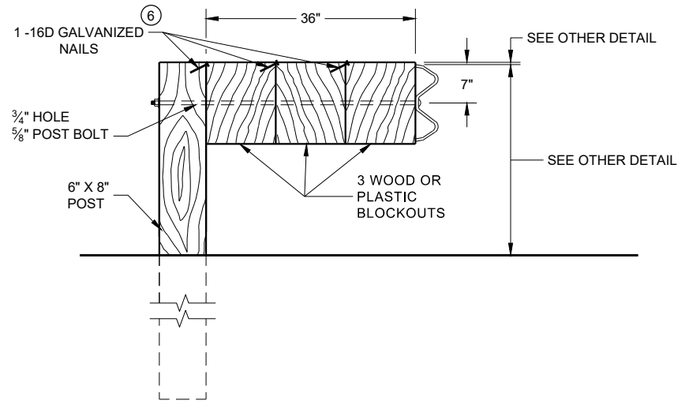
ALTERNATE BOLT HEAD



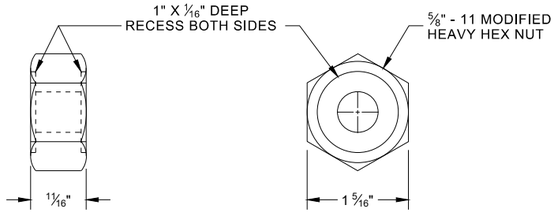
PLAN VIEW
BEAM LAPPING DETAIL



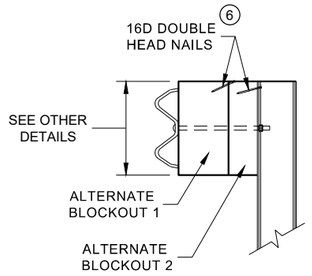
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



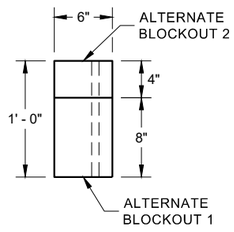
DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW



PLAN VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

(6) WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

6
SDD 14B42 - 06c

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL) AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED

(C) DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.

(D) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF - TAPPING SCREWS. ONE SCREW PER CORNER.

(E) HARDWARE MAY VARY BETWEEN MANUFACTURER. SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

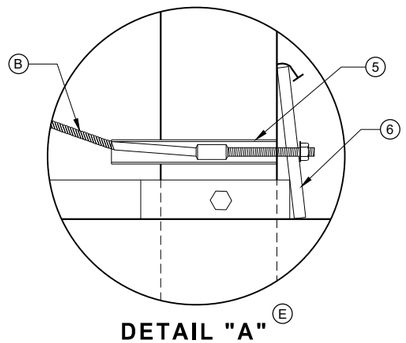
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

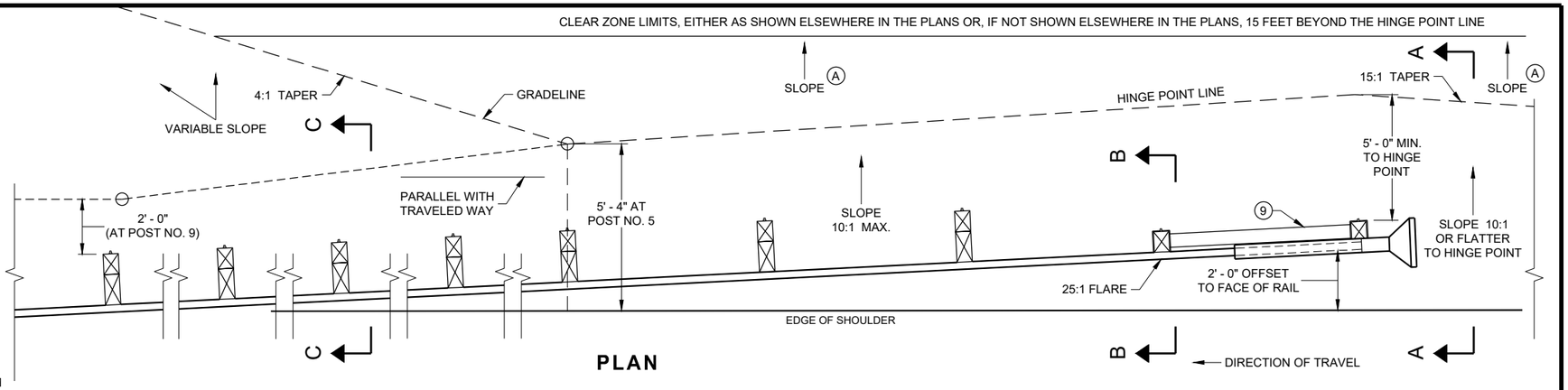
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

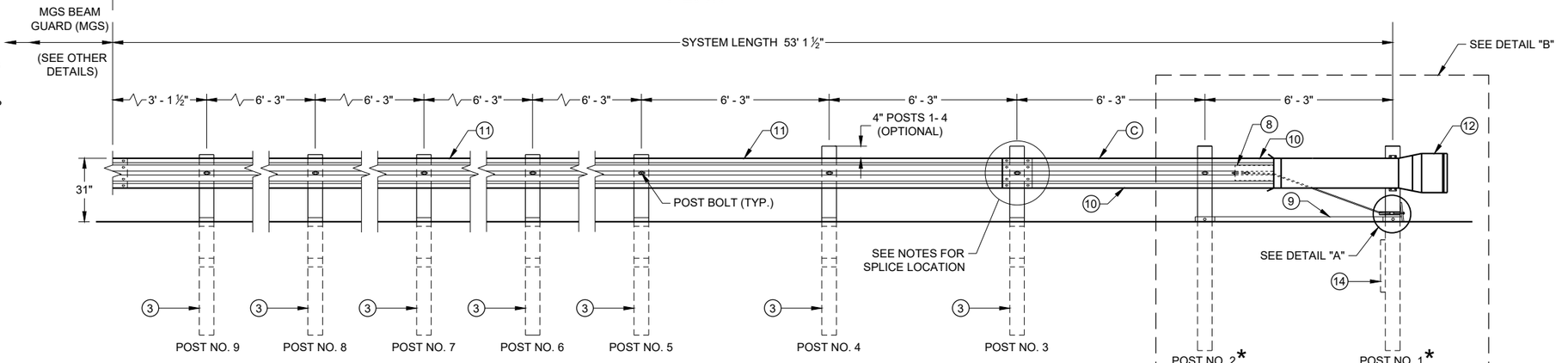
THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.



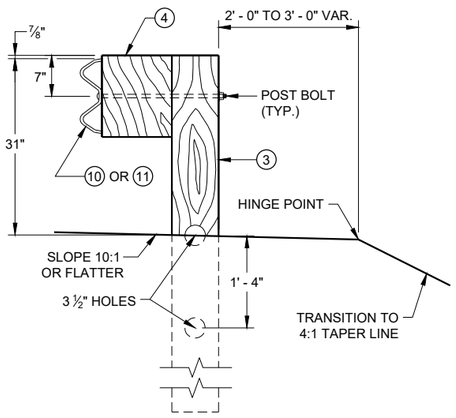
DETAIL "A" (E)



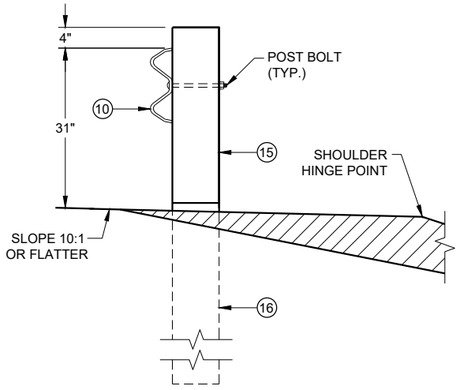
PLAN



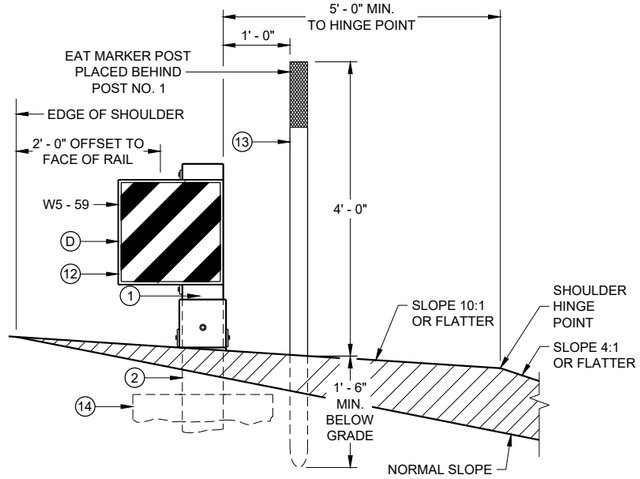
ELEVATION



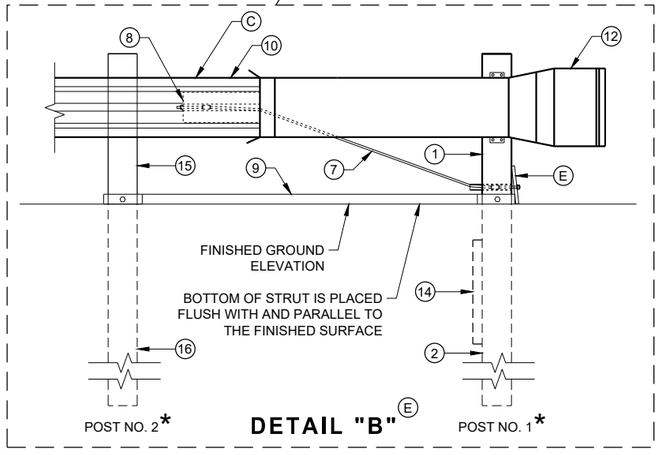
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*



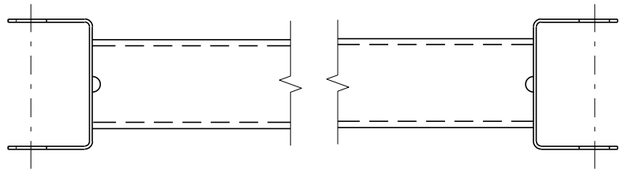
DETAIL "B" (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04a

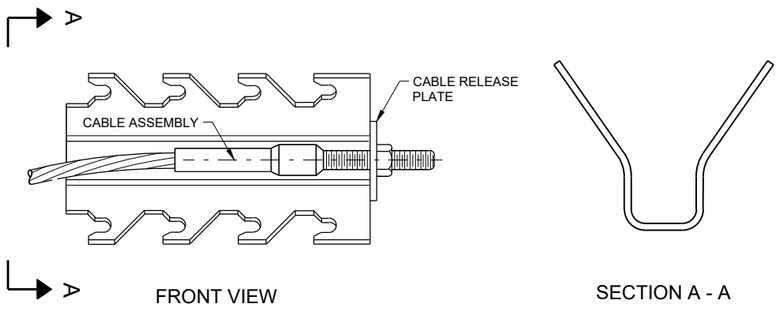
SDD 14B44 - 04a



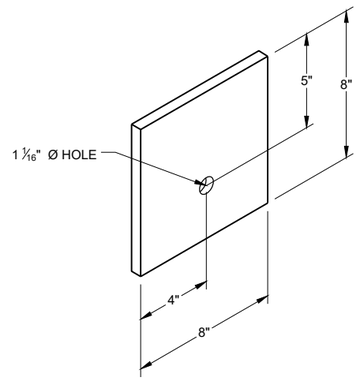
GENERIC GROUND STRUT ⑨ Ⓔ

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
①	UPPER POST NO. 1 6" X 6" TUBE
②	LOWER POST NO. 1
③	WOOD CRT
④	WOOD BLOCKOUT
⑤	PIPE SLEEVE
⑥	BEARING PLATE
⑦	BCT CABLE ASSEMBLY
⑧	ANCHOR CABLE BOX
⑨	GROUND STRUT
⑩	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
⑪	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
⑫	IMPACT HEAD
⑬	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
⑭	SOIL PLATE
⑮	UPPER POST NO. 2
⑯	LOWER POST NO. 2



GENERIC ANCHOR CABLE BOX ⑨ Ⓔ



BEARING PLATE ⑥ Ⓔ

6

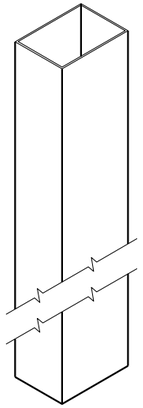
6

SDD 14B45 - 04b

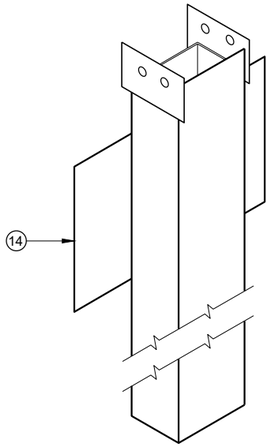
SDD 14B45 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

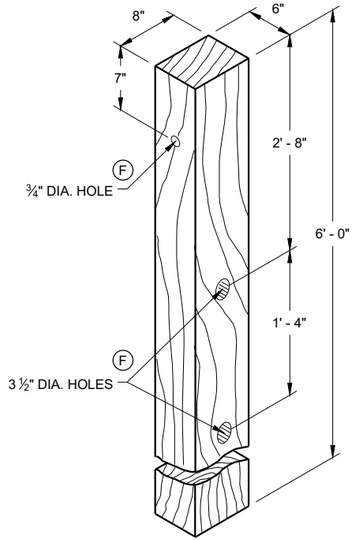
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA



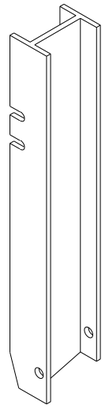
UPPER POST NO. 1 (1) (E)



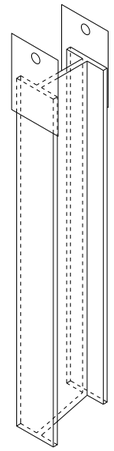
LOWER POST NO. 1 (2) (E)



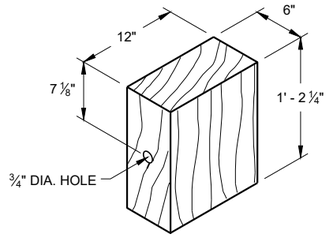
WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



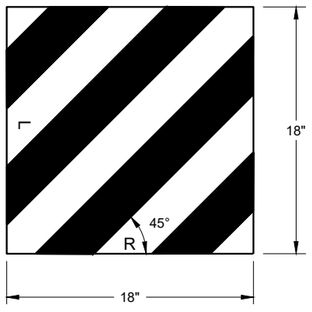
UPPER POST NO. 2 (15) (E)



LOWER POST NO. 2 (16) (E)

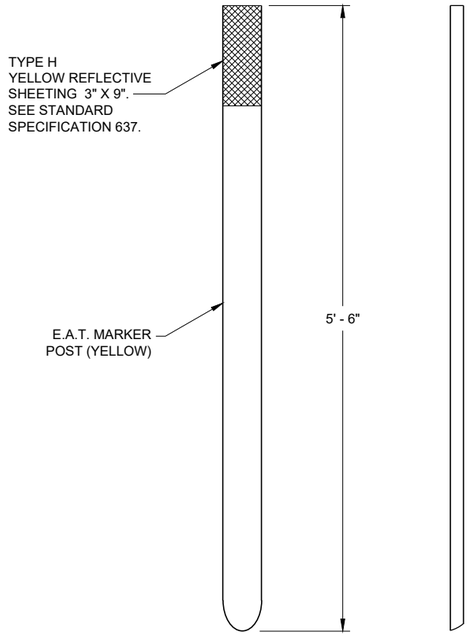


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



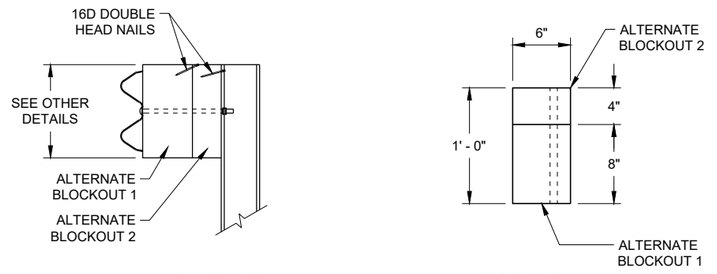
W5 - 59

REFLECTIVE SHEETING DETAIL (E)



FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

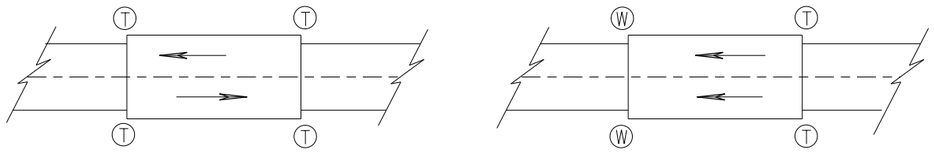
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APPROVED
7/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR

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SDD 14B44 - 04c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

(T) THRIE BEAM CONNECTION

(W) W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

GENERAL NOTES

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

TRANSITION USES STEEL POSTS ONLY.

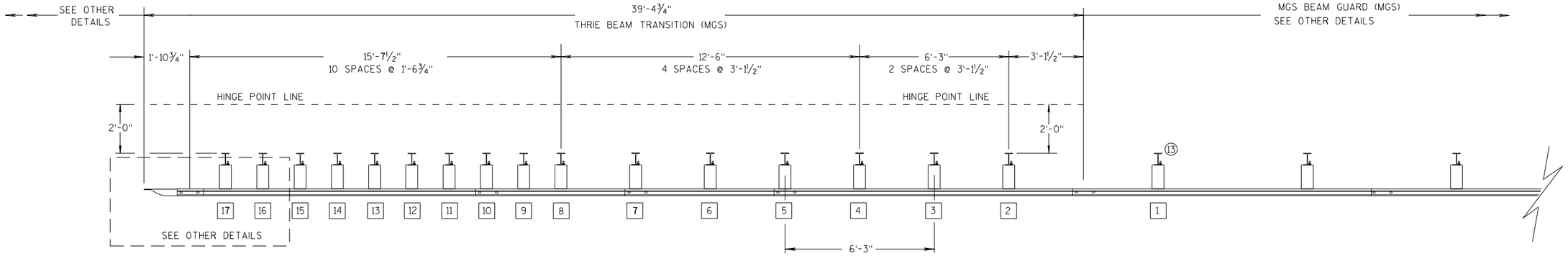
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

POST 2 THROUGH 17 USES STEEL POST ONLY

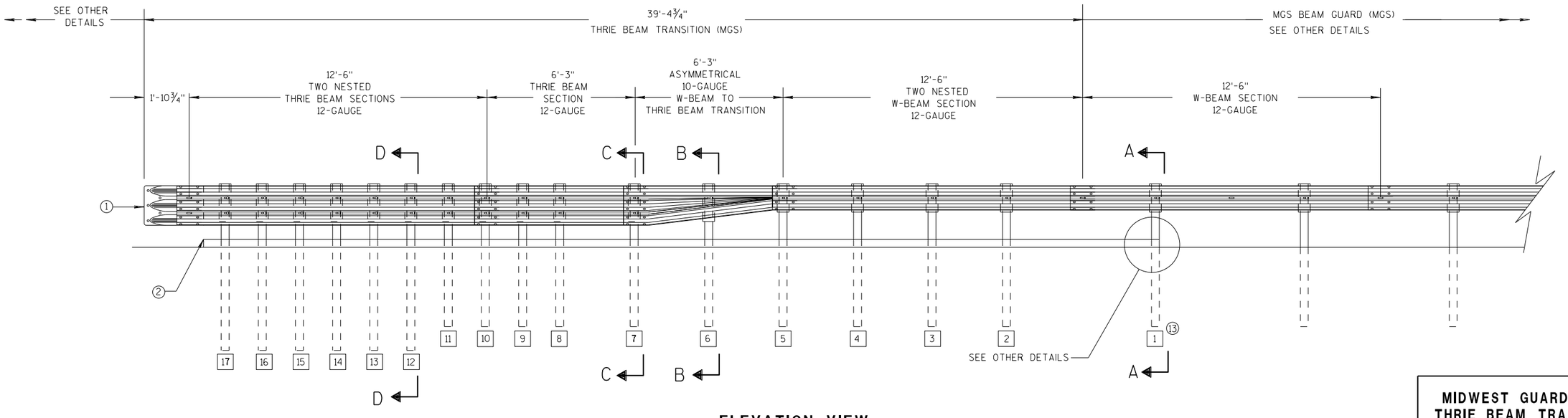
(1) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD14B42



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 14 B 45-5a

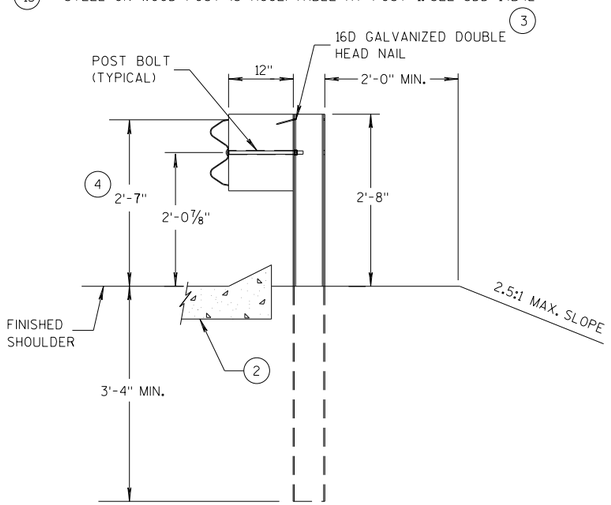
GENERAL NOTES

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 10D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

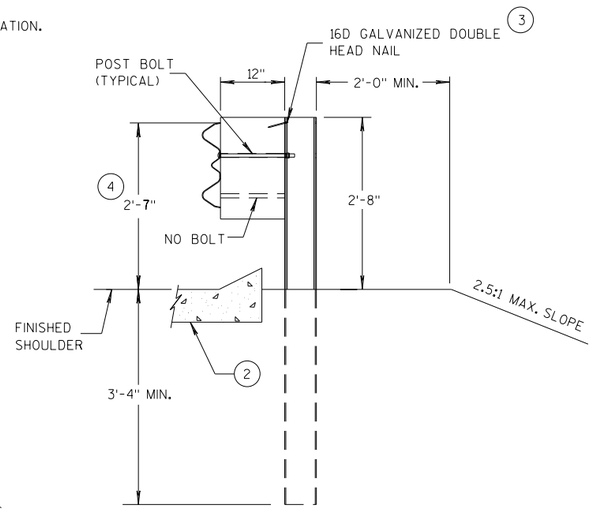
(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42



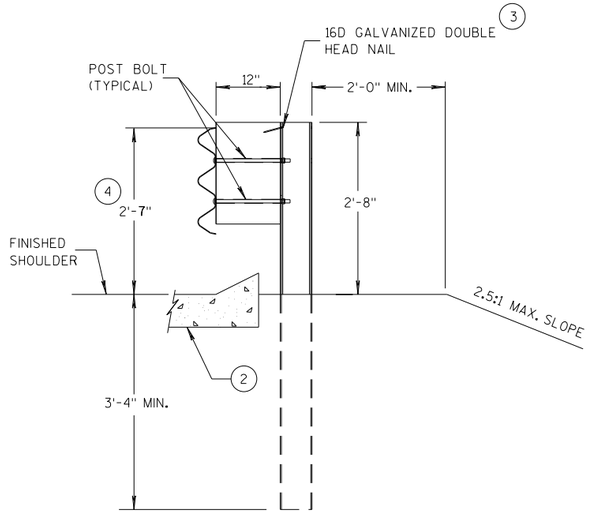
SECTION A-A (13)

POSTS 1-5



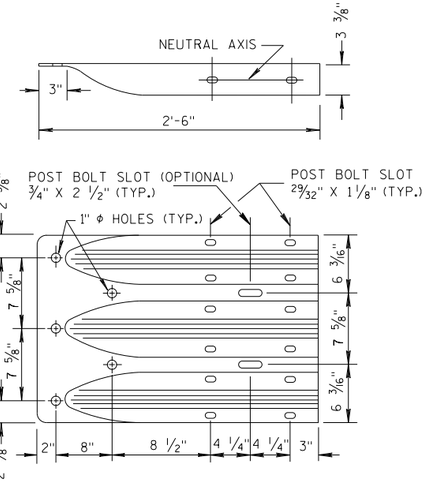
SECTION B-B

POST 6

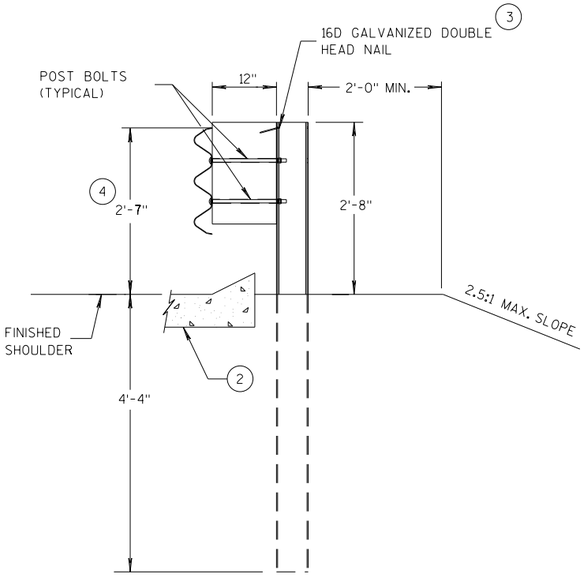


SECTION C-C

POSTS 7-11

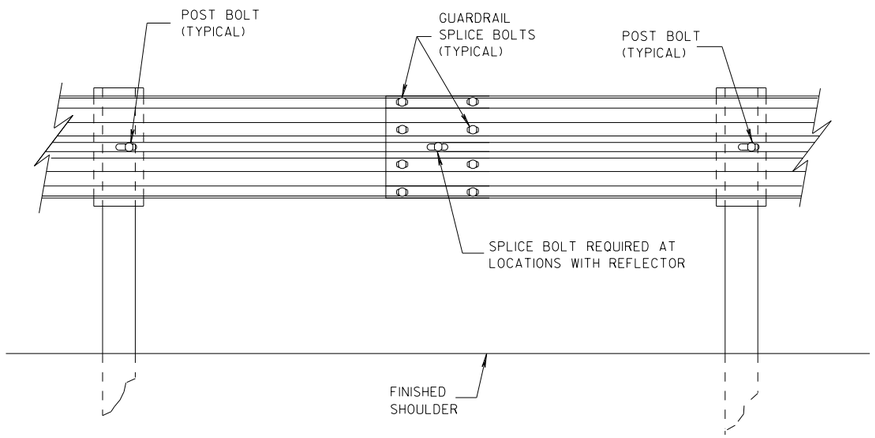


THRIE BEAM TERMINAL CONNECTOR



SECTION D-D

POSTS 12-17



SPLICE DETAIL

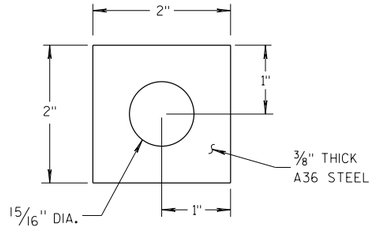
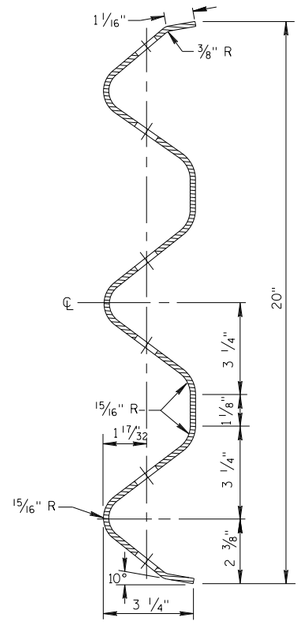


PLATE WASHER DETAIL



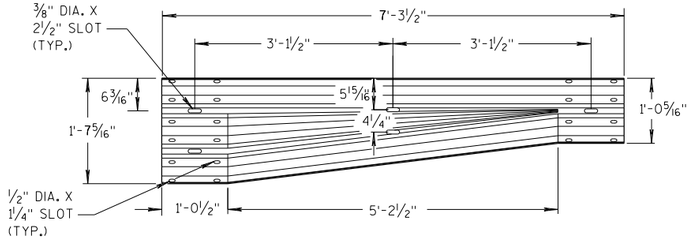
SECTION THRU THRIE BEAM RAIL ELEMENT

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

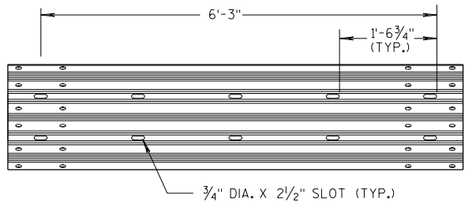
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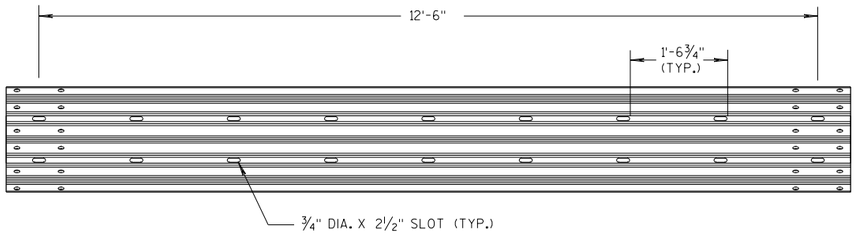
S.D.D. 14 B 45-5b



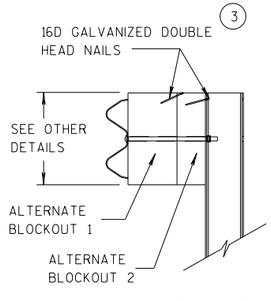
W-BEAM TO THRIE BEAM TRANSITION SECTION



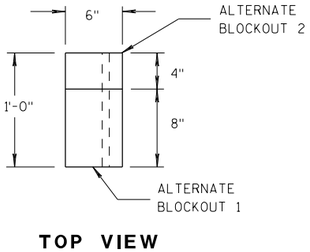
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

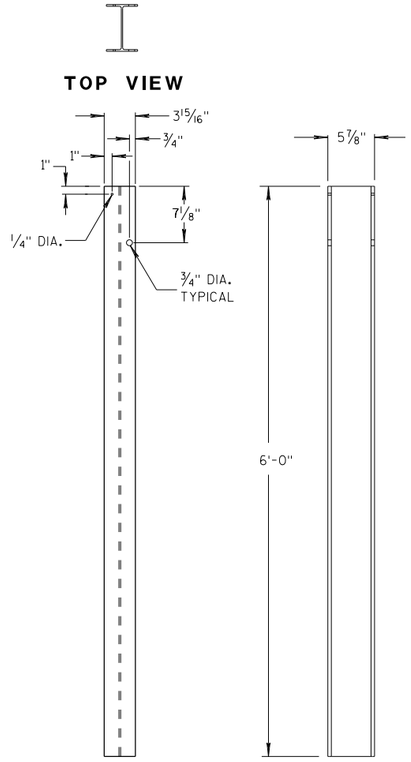


SIDE VIEW



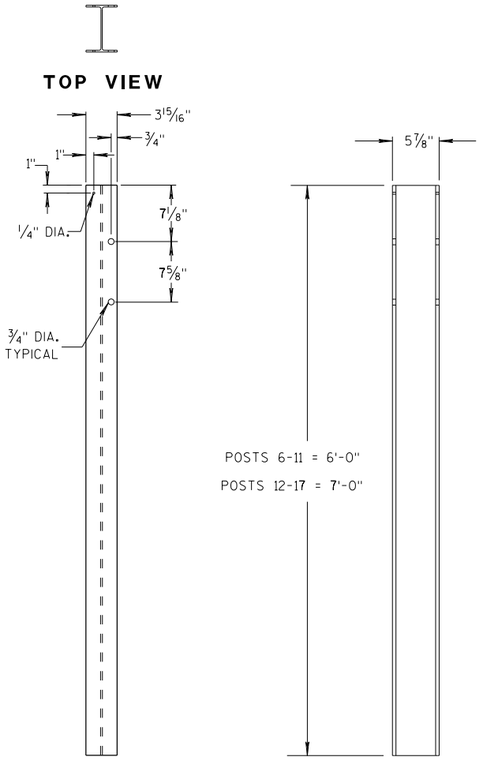
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



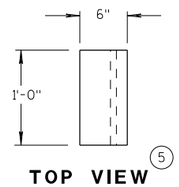
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5 (13)

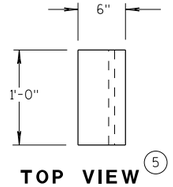


FRONT VIEW SIDE VIEW

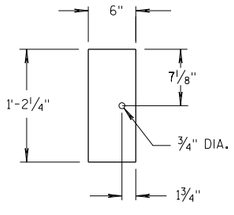
STEEL POSTS 6-17



TOP VIEW (5)

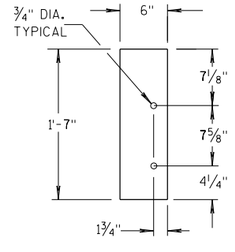


TOP VIEW (5)



FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-17

GENERAL NOTES

STEEL POSTS ARE W6X9 OR W6X8.5.

BOLT HOLES FOR POST ARE ON FRONT AND OF SIDE OF POST.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

(5) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

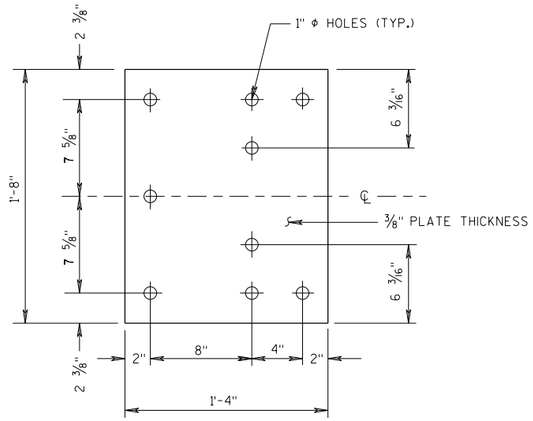
(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

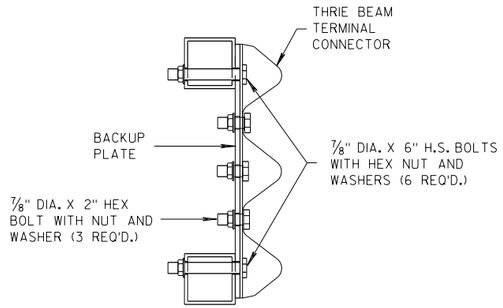
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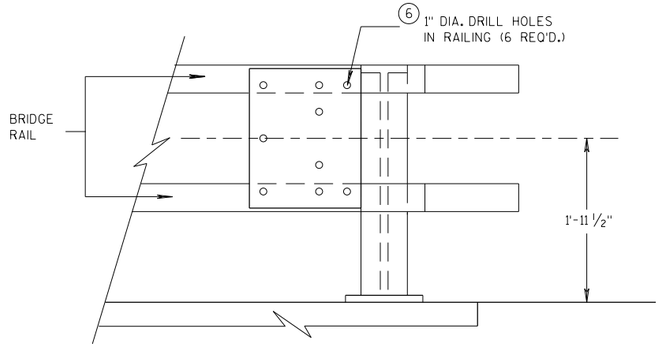
S.D.D. 14 B 45-5c



BACK-UP PLATE DETAIL



SECTION J-J

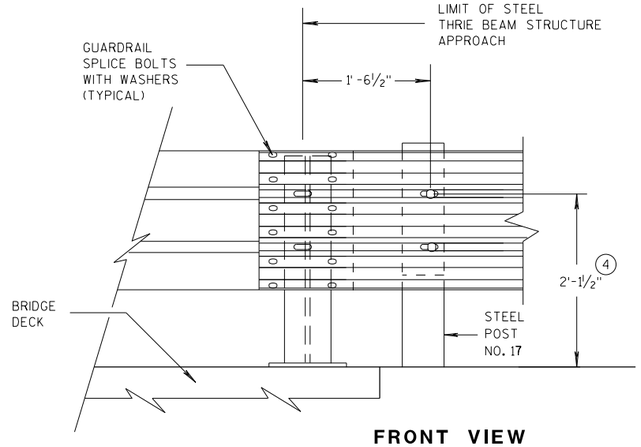


BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING

GENERAL NOTES

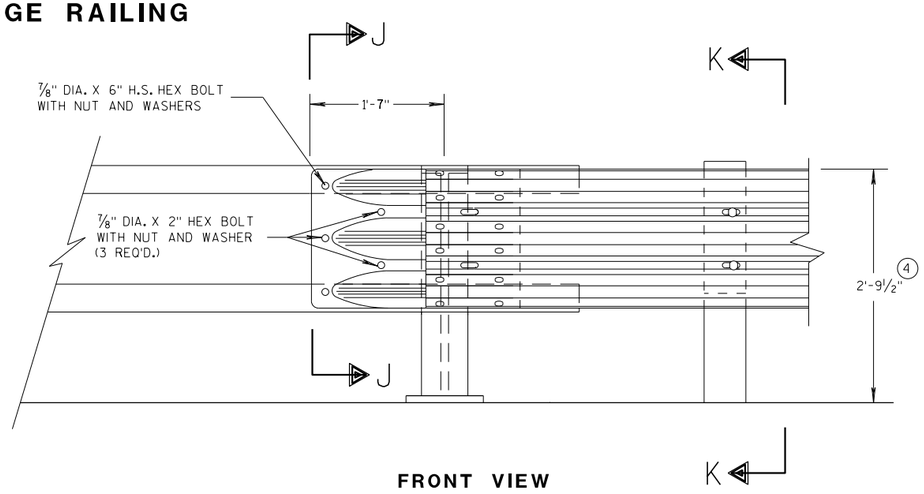
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING HOLES THROUGH THE PAPRPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

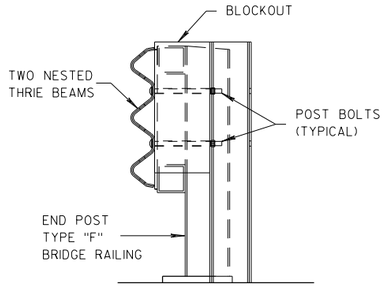


FRONT VIEW

THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



FRONT VIEW



SECTION K-K

THRIE BEAM CONNECTION TO TUBULAR RAILING TYPE "F"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 07/2018 — DATE
FHWA

/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

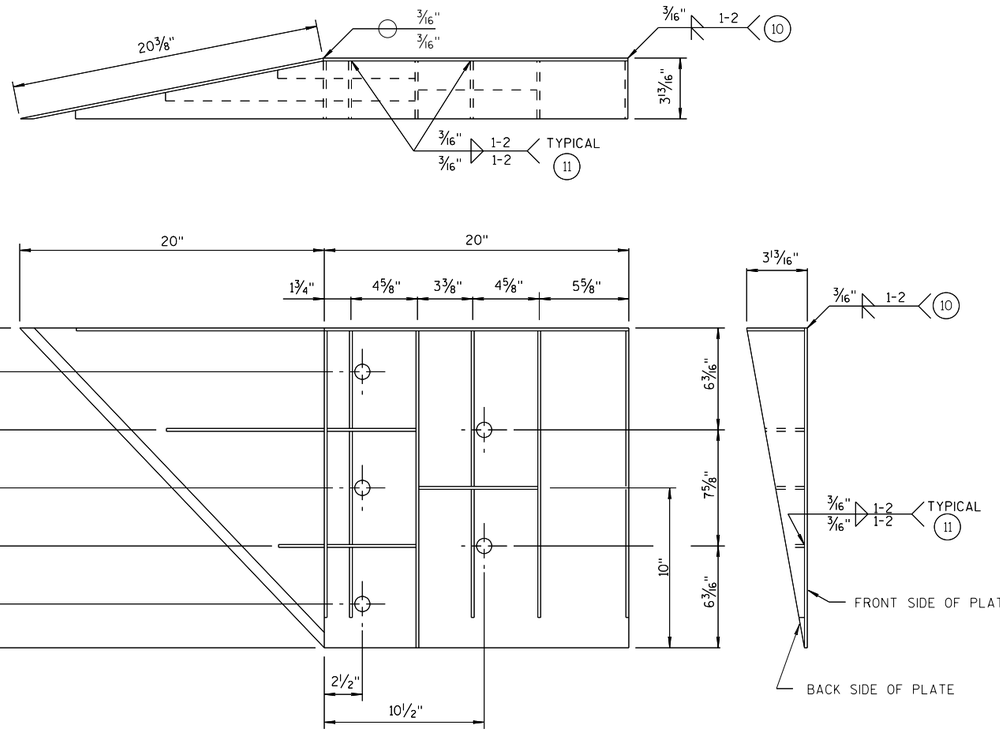
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S.D.D. 14 B 45-5g

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S.D.D. 14 B 45-5g



WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

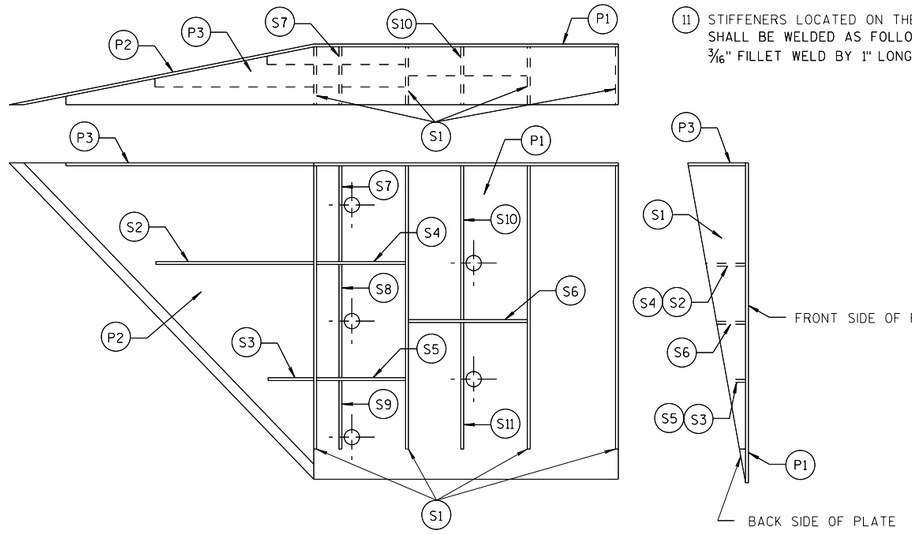


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.

FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(10) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND 3/16" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(11) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
3/16" FILLET WELD BY 1" LONG SPACED AT 2".

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	3/16"
P2	1		20" x 20" x 28 9/16"	3/16"
P3	1		39" x 3 5/8" x 20" x 19 5/16"	3/16"
S1	4		18 7/16" x 3 5/8" x 18 3/4"	1/4"
S2	1		10 1/4" x 2 7/16" x 10 3/8" x 1/2"	1/4"
S3	1		3" x 1 1/16" x 3 1/8" x 1/2"	1/4"
S4	1		6 1/8" x 2 7/16"	1/4"
S5	1		6 1/8" x 1 1/16"	1/4"
S6	1		7 3/4" x 1 3/4"	1/4"
S7	1		2 9/16" x 6" x 3 5/8" x 5 7/8"	1/4"
S8	1		1 5/32" x 7 1/2" x 2 1/2" x 7 3/8"	1/4"
S9	1		6 1/16" x 6 3/16" x 1 3/32"	1/4"
S10	1		1 7/8" x 9 7/8" x 3 5/8" x 9 11/16"	1/4"
S11	1		8 1/2" x 8 3/4" x 1 13/16"	1/4"

SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

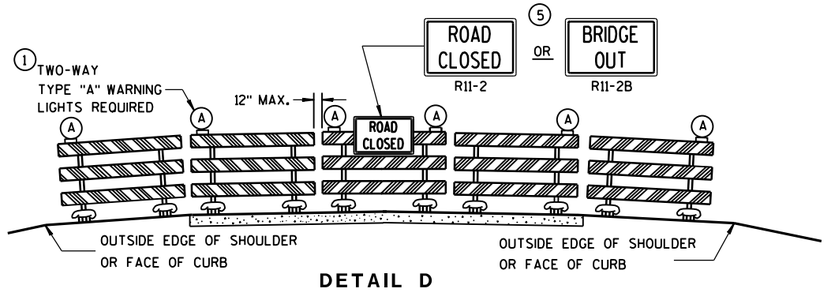
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS I
UNIT SUPERVI

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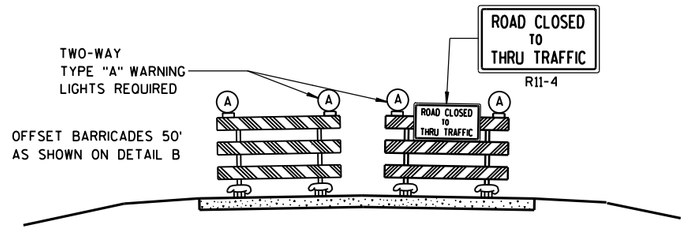
S.D.D. 14 B 45-5i



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

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO SAFETY ENGI

FHWA

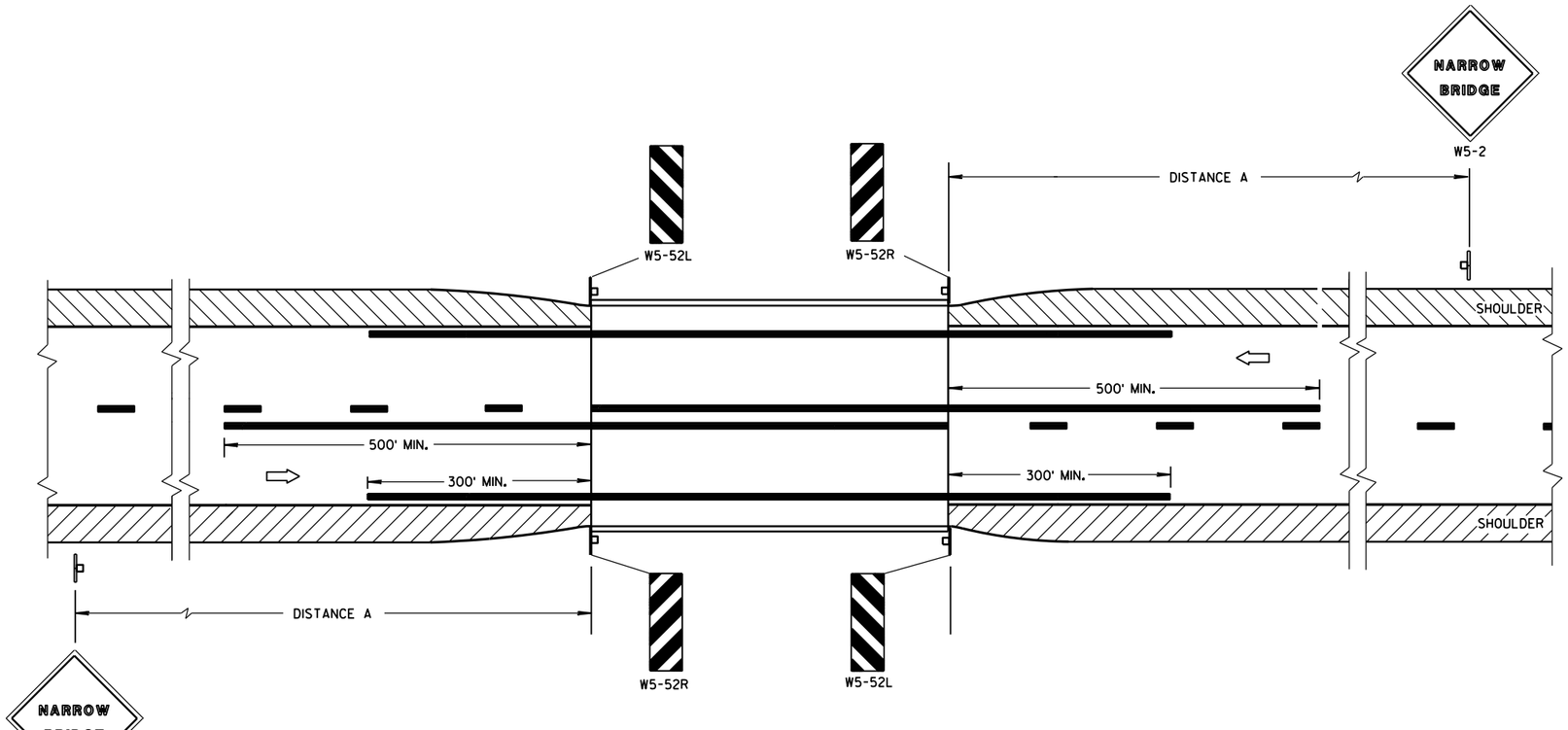
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S.D.D. 15 C 2-6b

6

S.D.D. 15 C 2-6b



SITUATION 1

WARRANTING CRITERIA:
BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	750'

GENERAL NOTES

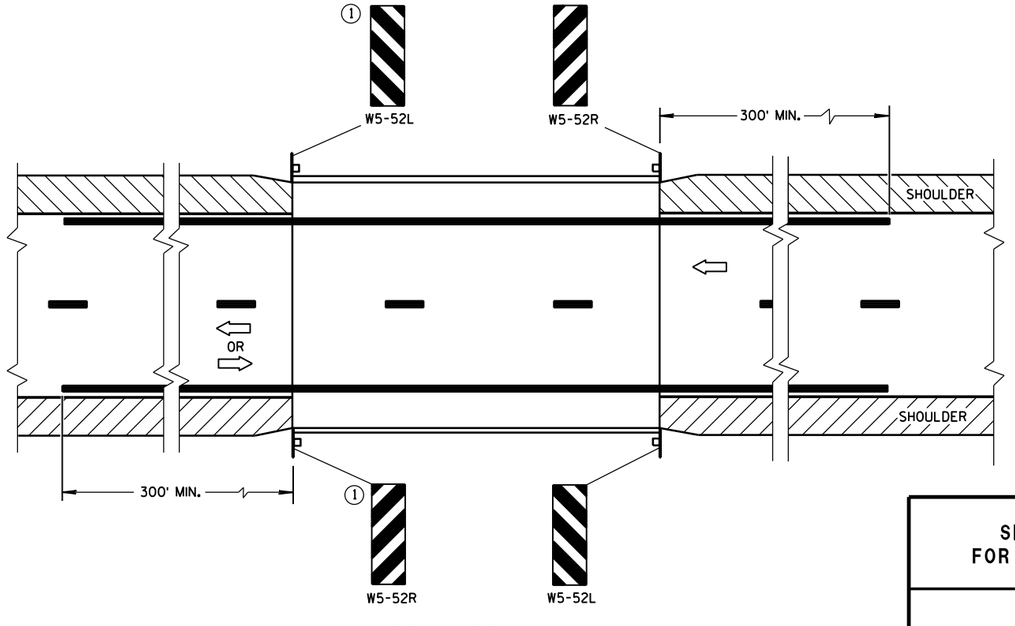
DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

(1) OMIT ON ONE-WAY TRAVELLED WAYS.

⇨ DIRECTION OF TRAFFIC



SITUATION 2

WARRANTING CRITERIA:

1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET.

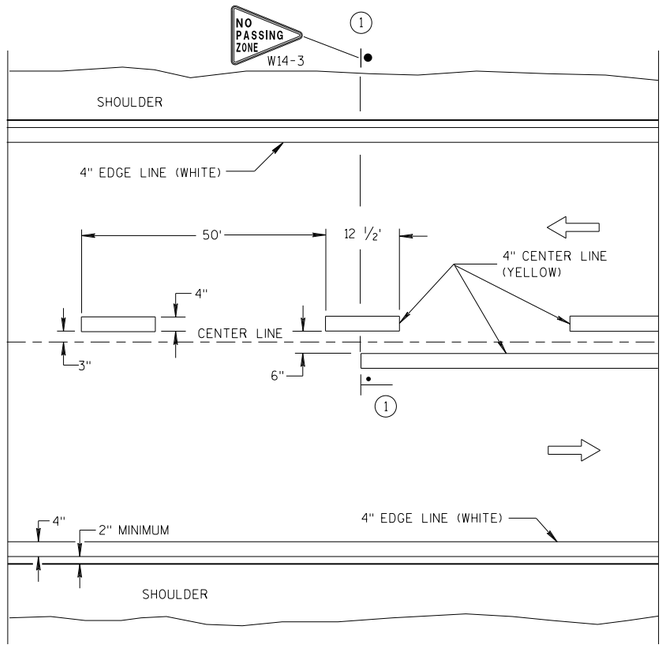
SIGNING & MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

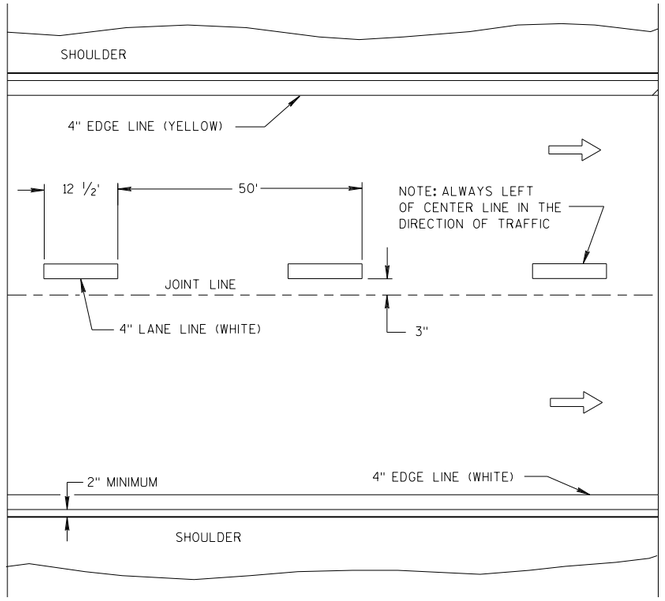
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June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MAR ...EER
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S.D.D. 15 C 6-9



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

GENERAL NOTES

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

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

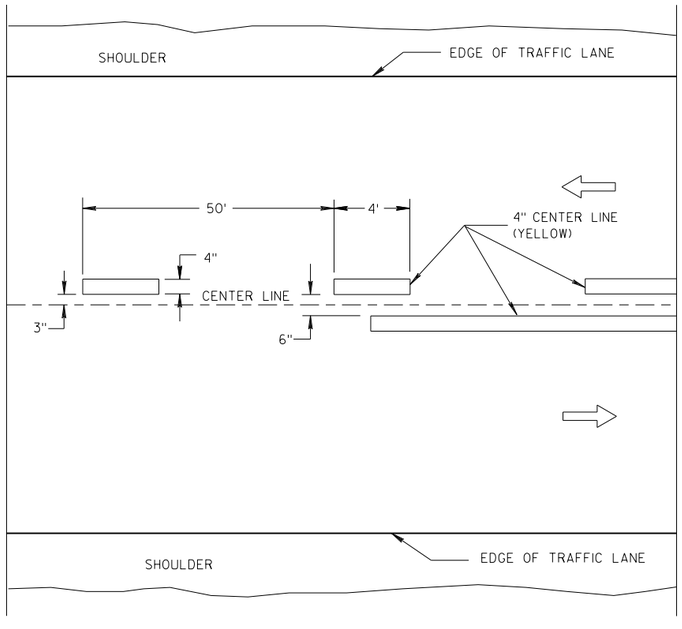
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

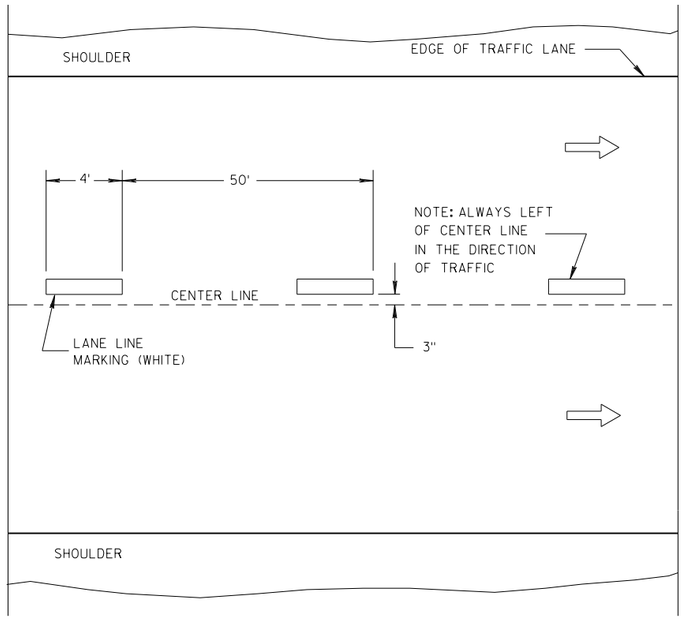
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

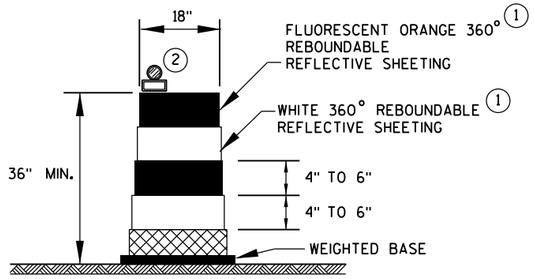
7/2018 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER

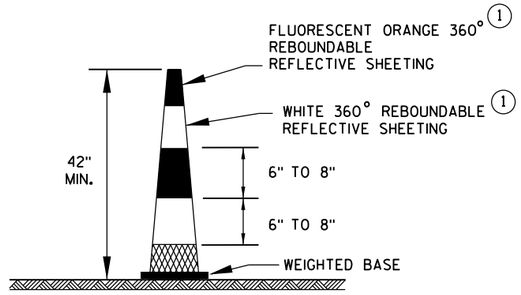
FHWA

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S.D.D. 15 C 8-19a



DRUM

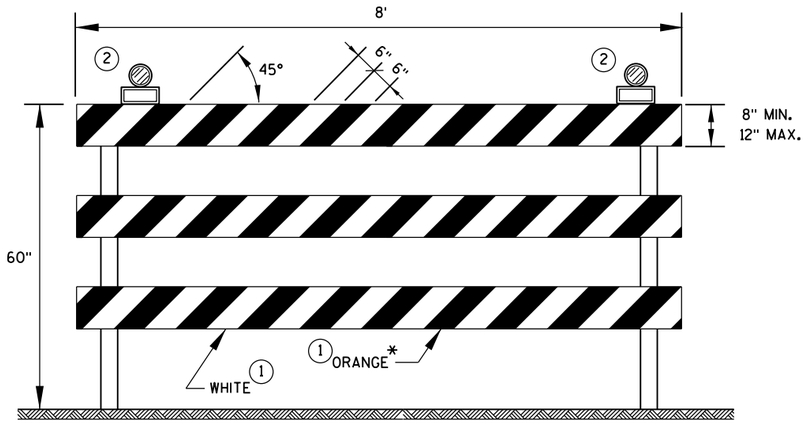


42" CONE

DO NOT USE IN TAPERS
1/2 SPACING OF DRUMS

GENERAL NOTES

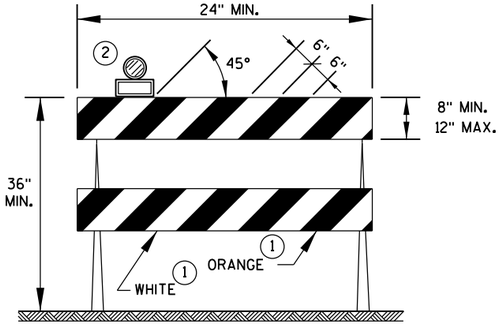
1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



TYPE 3 BARRICADE

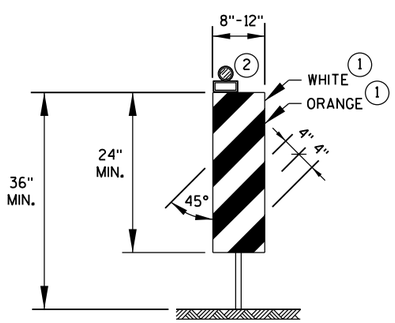
IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION, USE RED SHEETING.



TYPE 2 BARRICADE

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



VERTICAL PANEL

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

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017 — DATE

/S/ Andrew Heidtke — WORK ZONE ENG

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6

S.D.D. 15 C 11-7b

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

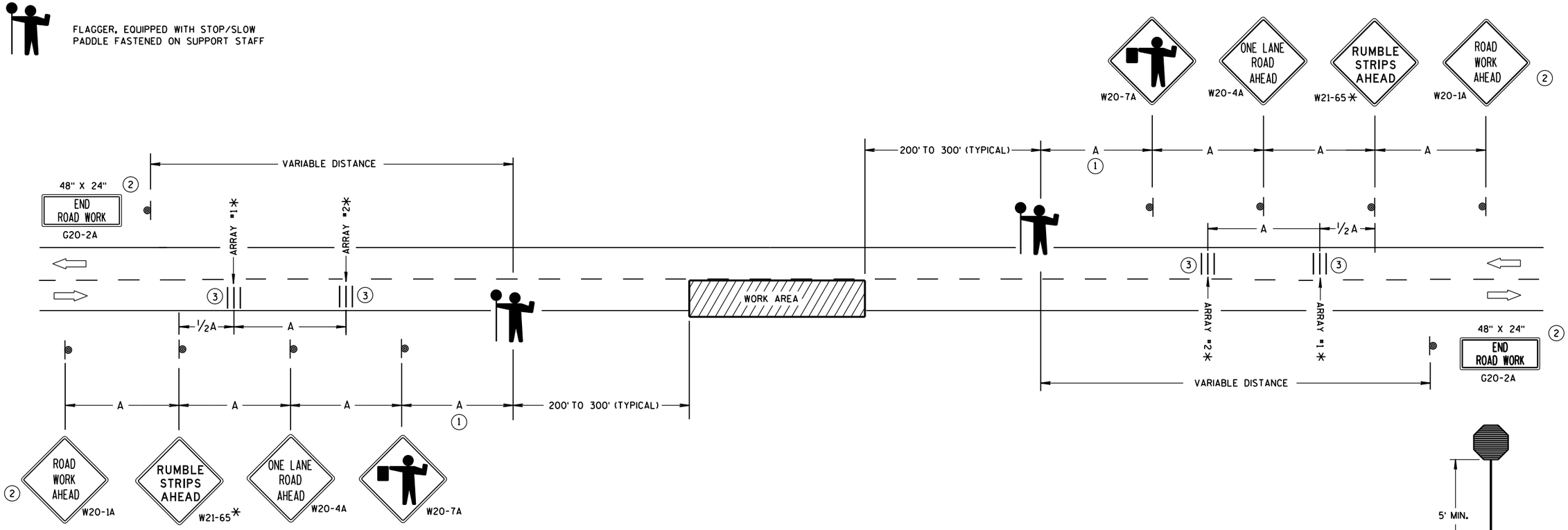
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

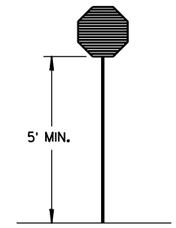
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING A
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 W20-4A SIGNS, USING SPACING A.





STOP/SLOW PADDLE ON SUPPORT STAFF

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

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.

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

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.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

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

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, REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

(1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 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.

(3) EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

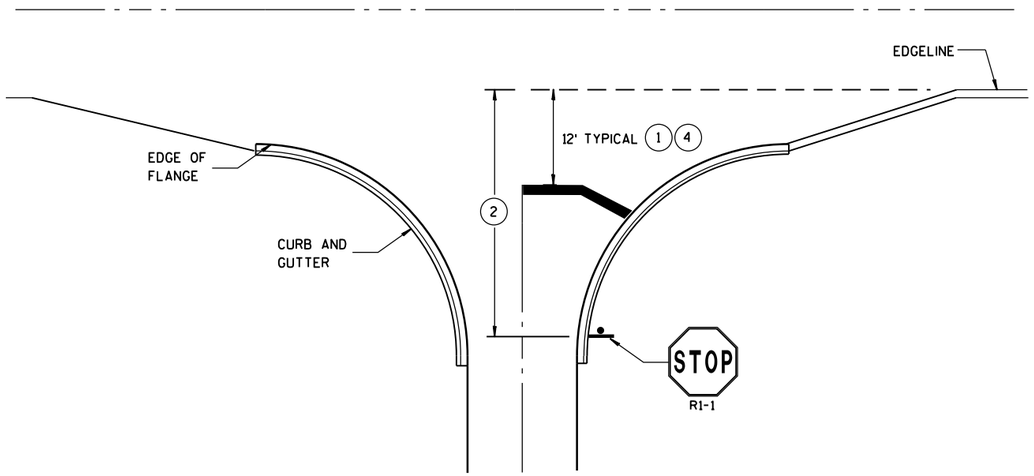
APPROVED
June 2017 — DATE
/S/ Andrew Heldtke — WORK ZONE ENG
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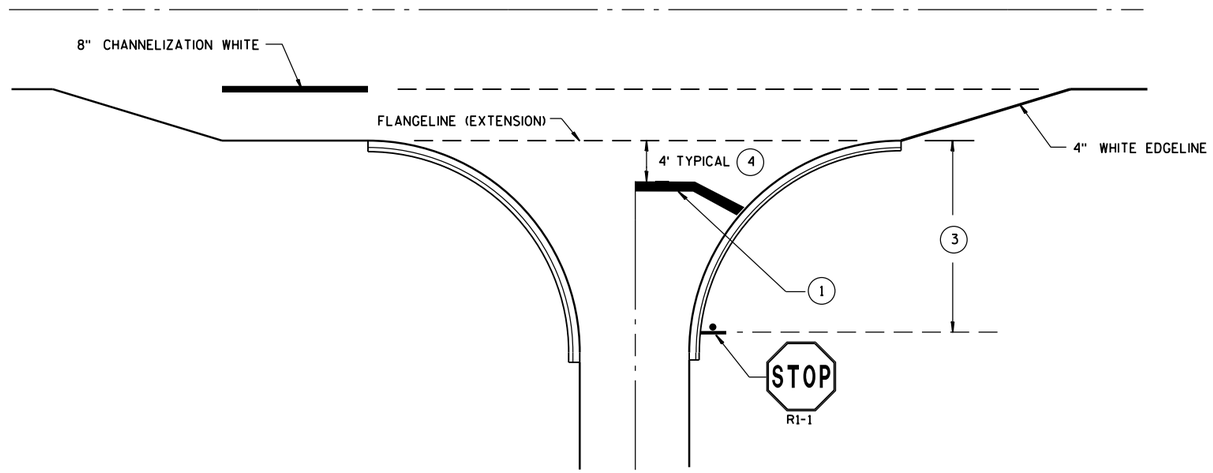
S.D.D. 15 C 12-6

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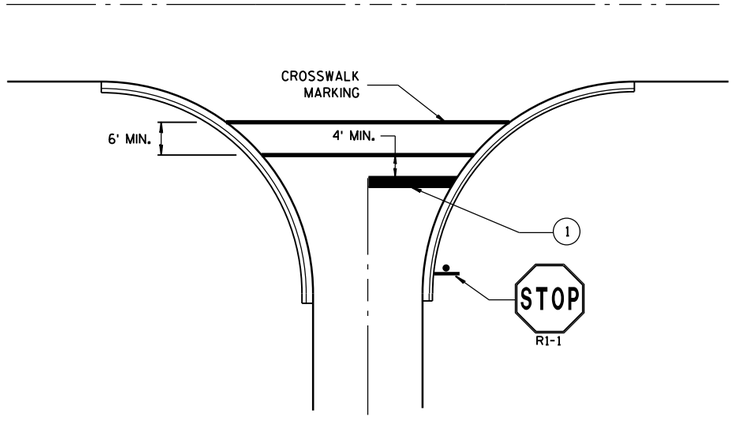
S.D.D. 15 C 12-6



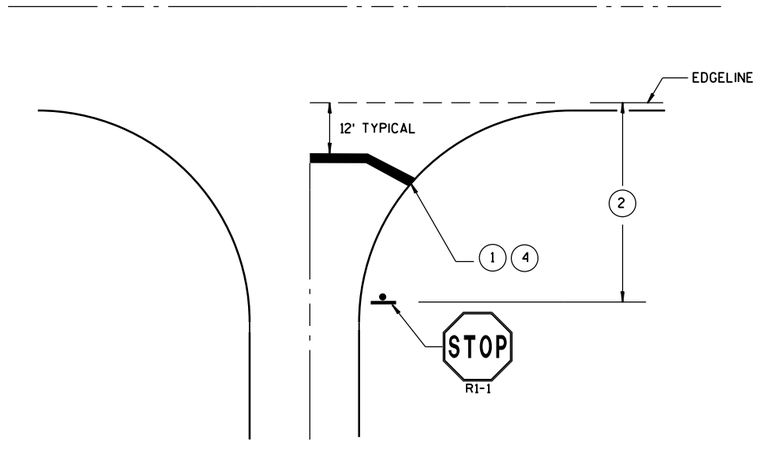
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



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

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

(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 EDGELINE 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. (NO CLOSER THAN 4 FEET).

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept., 2017 — DATE

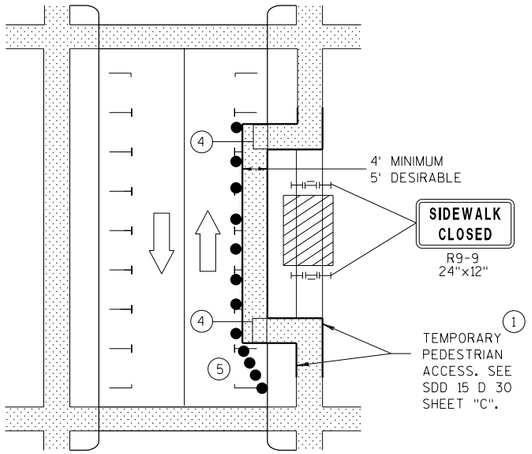
/S/ Matthew R. Rauch — STATE SIGNING AND MAR ... NEER

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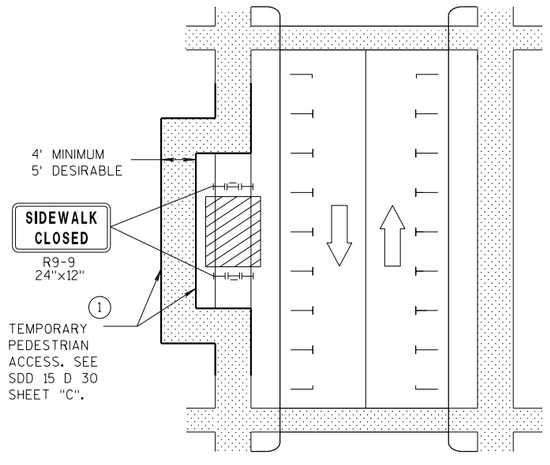
S.D.D. 15 C 33-3

NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

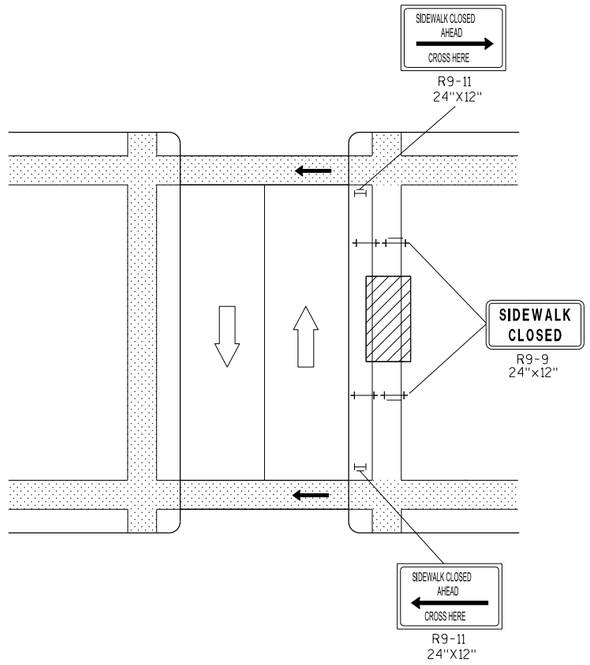


MID-BLOCK SIDEWALK CLOSURE IN PARKING LANE

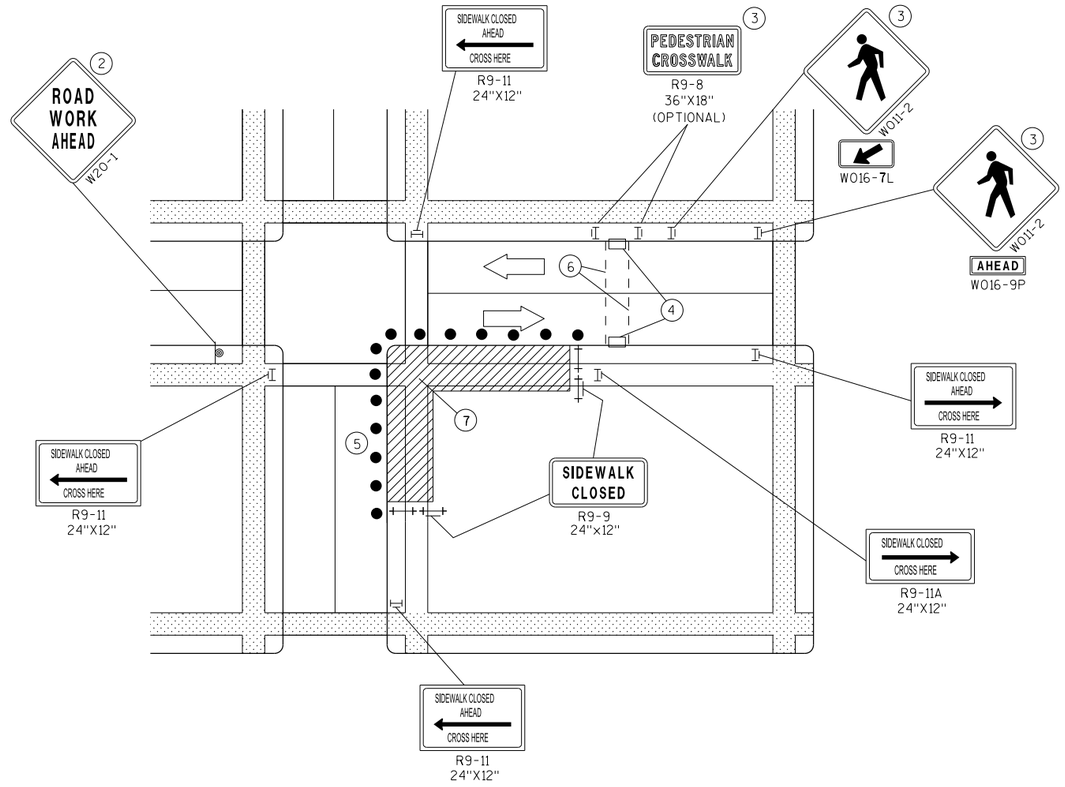
NOTE: LAYOUT SAME AS ABOVE.



SIDEWALK DIVERSION



MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

FOR NIGHTTIME CLOSURE USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

(1) IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE.

(2) "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.

(3) IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND W011-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.

(4) TEMPORARY CURB RAMPS. SEE SDD 15 D 30 SHEET "B".

(5) DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.

(6) TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.

(7) LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

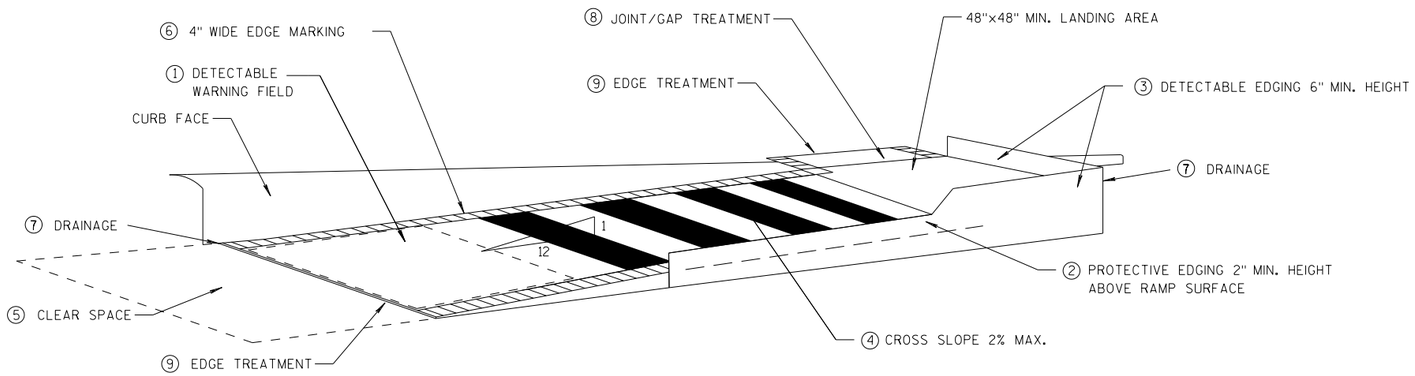
LEGEND

- SIGN ON PERMANENT SUPPORT
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- DIRECTION OF TRAFFIC
- TRAFFIC CONTOL DRUM

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

6

S.D.D. 15 D 30-4a



TEMPORARY CURB RAMP PARALLEL TO CURB

GENERAL NOTES

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

① CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 8D5 SHEET "E".

② PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

③ DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

④ CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

⑤ CLEAR SPACE OF 48"X48" MIN. SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

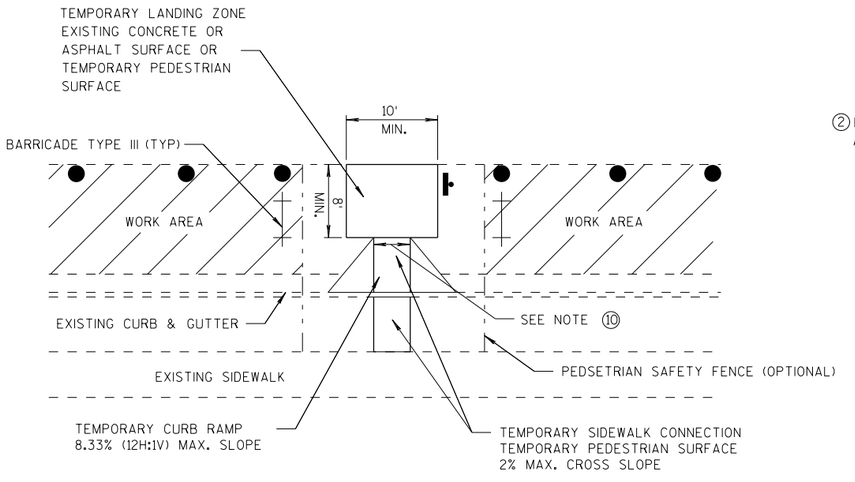
⑥ THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.

⑦ DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

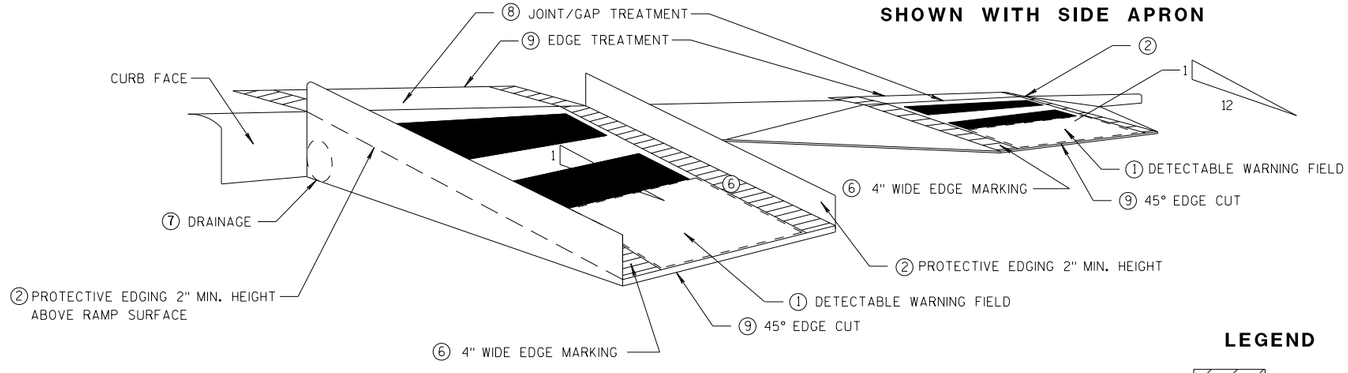
⑧ LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.

⑨ CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2". LATERAL EDGES SHALL BE VERTICAL UP TO 1/4" HIGH, AND BEVELED AT 1:2 BETWEEN 1/4" AND 1/2".

⑩ 5' WIDE MIN. WITH PEDSETRIAN SAFETY FENCE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY FENCE.



TEMPORARY BUS STOP PAD



SHOWN WITH PROTECTIVE EDGE

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

LEGEND

WORK AREA

TYPE III BARRICADE

TRAFFIC CONTOL DRUM

TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

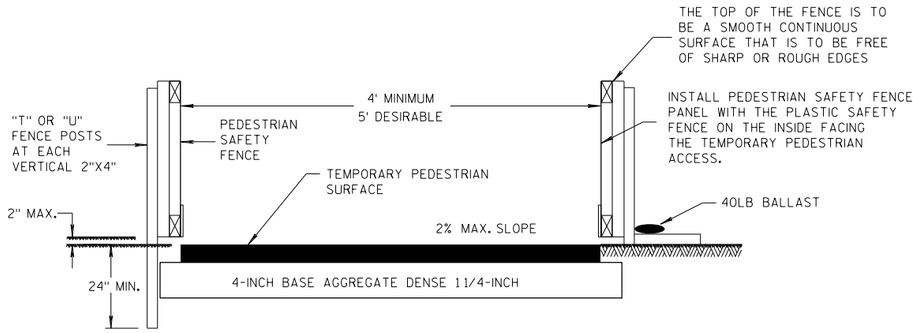
7/2018 DATE

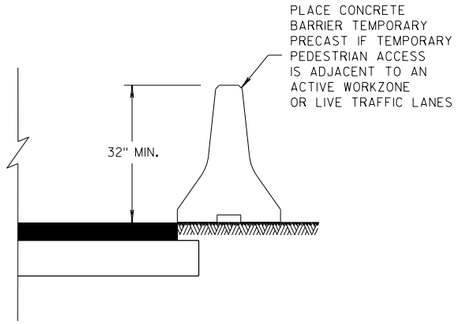
/S/ Andrew Heidtke
WORK ZONE ENG

FHWA

6

S.D.D. 15 D 30-4b

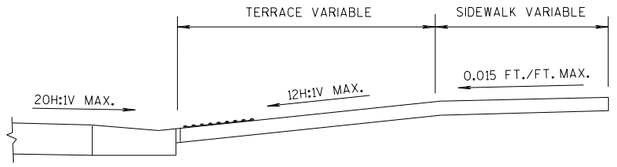




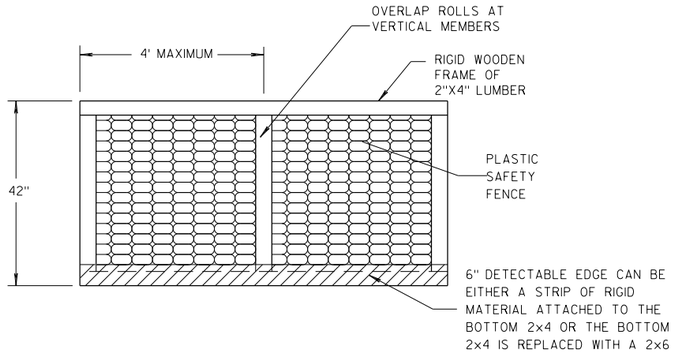
TEMPORARY PEDESTRIAN ACCESS

GENERAL NOTES

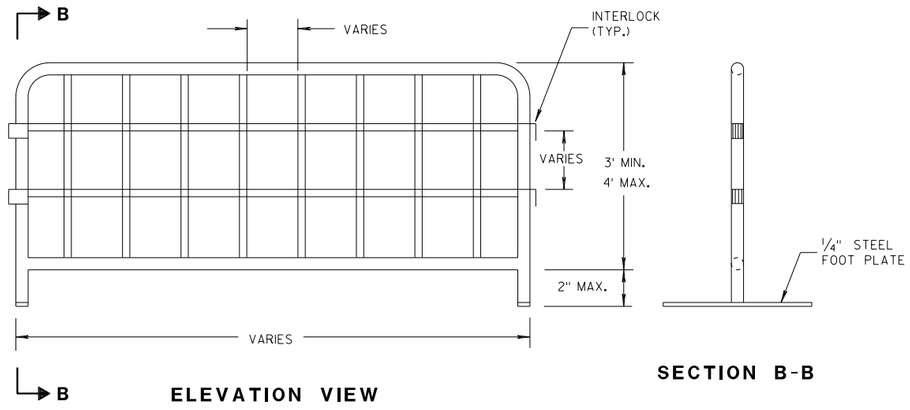
(1) INTERCHANGEABLE WITH THE PEDESTRIAN SAFETY FENCE.



SECTION A-A



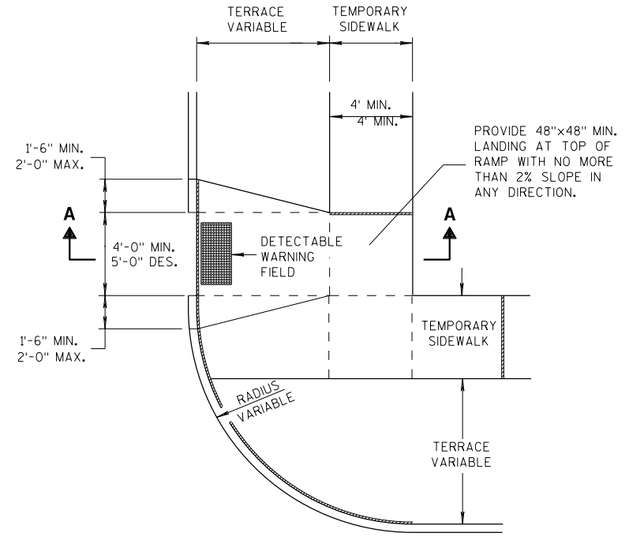
PEDESTRIAN SAFETY FENCE



ELEVATION VIEW

SECTION B-B

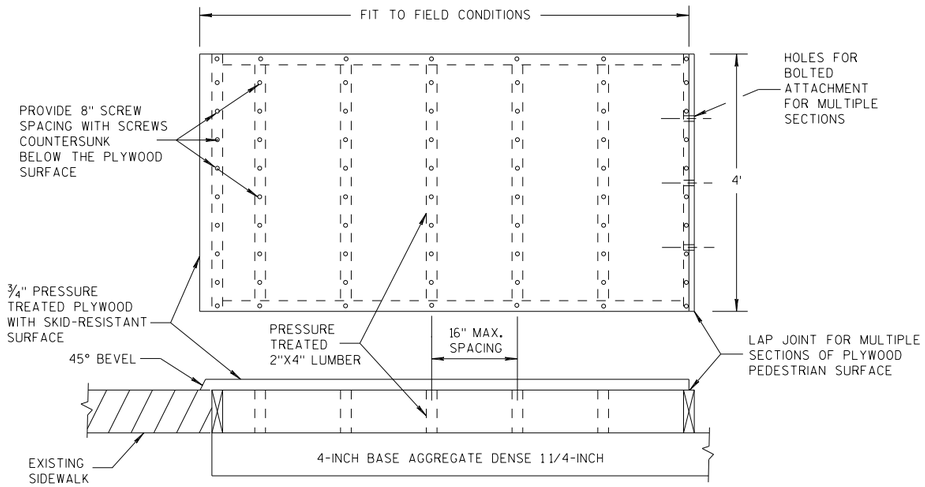
TEMPORARY PEDESTRIAN STEEL BARRICADE (1)



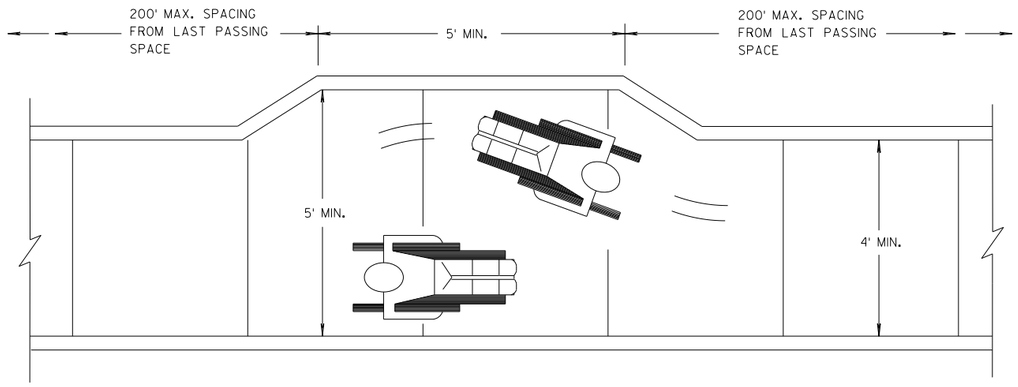
PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)



TEMPORARY PEDESTRIAN SURFACE PLYWOOD



NARROW SIDEWALK PASSING DETAIL

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

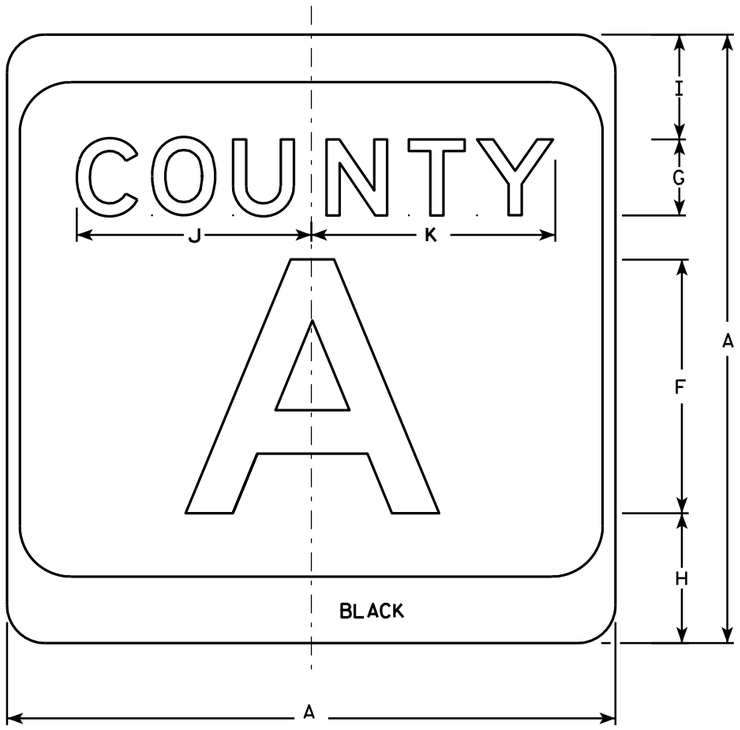
APPROVED

7/2018
DATE

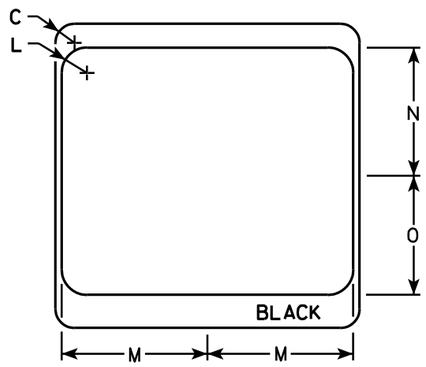
/S/ Andrew Heidtke
WORK ZONE ENG

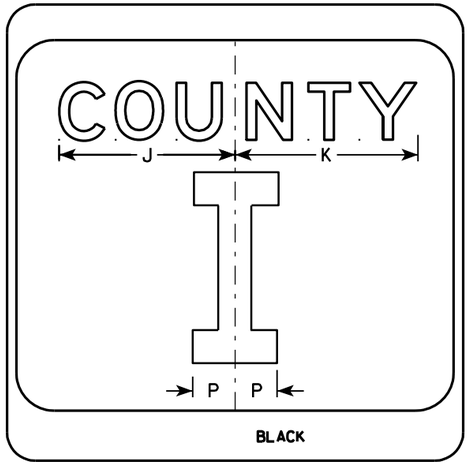
FHWA

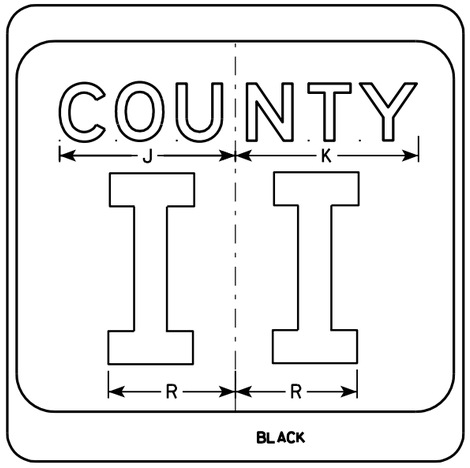
6
S.D.D. 15 D 30-4c



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   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. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

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																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

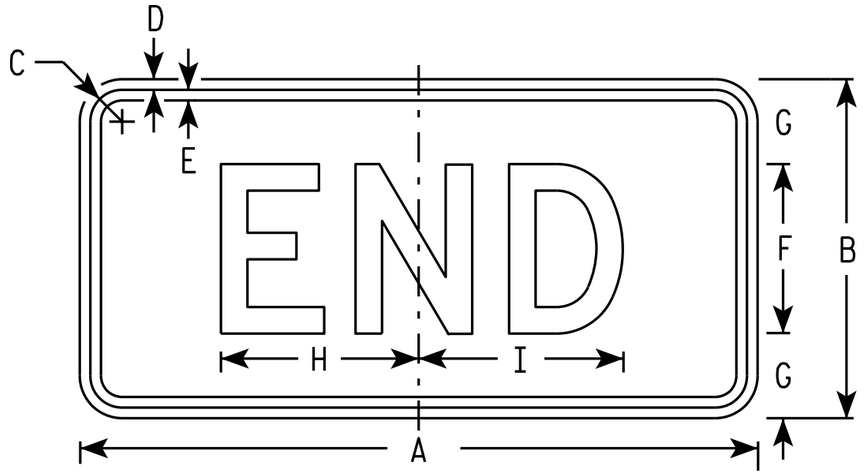
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

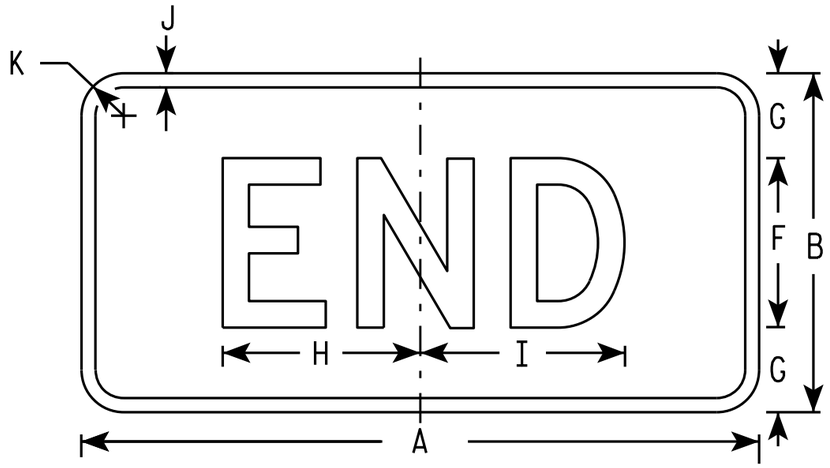
APPROVED Matthew R Zaun
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 124	E



M4-6
MM4-6
MP4-6



MB4-6
MK4-6
MN4-6
MR4-6

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - D
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. M4-6 Background - White
   Message - Black

   MB4-6 Background - Blue
   Message - White

   MK4-6 Background - Green
   Message - White

   MM4-6 Background - White
   Message - Green

   MN4-6 Background - Brown
   Message - White

   MP4-6 Background - White
   Message - Blue

   MR4-6 Background - Brown
   Message - Yellow

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																											
2	24	12	1 1/8	3/8	3/8	6	3	7	7 1/4	1/2	1 1/2																2.00
3	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5
4	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5
5	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5

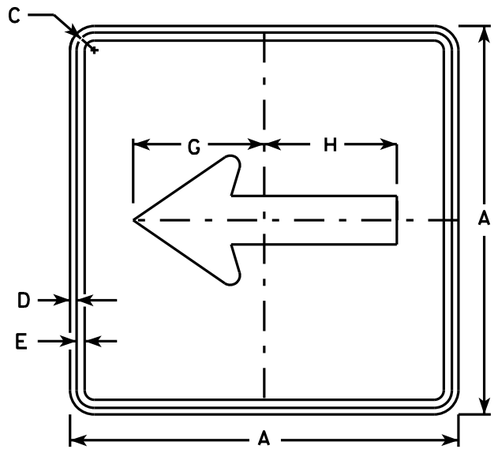
STANDARD SIGN
M4-6

WISCONSIN DEPT OF TRANSPORTATION

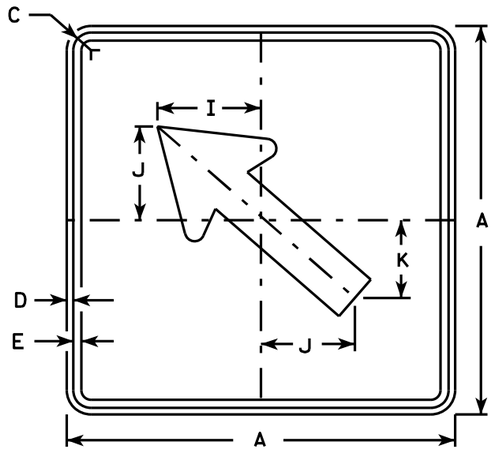
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M4-7.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO. 125 | E



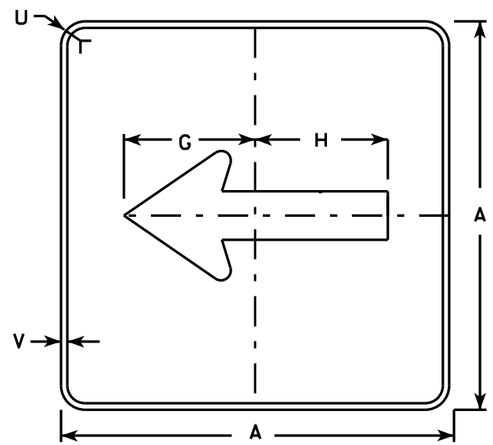
M6-1
MM6-1
MO6-1
MP6-1



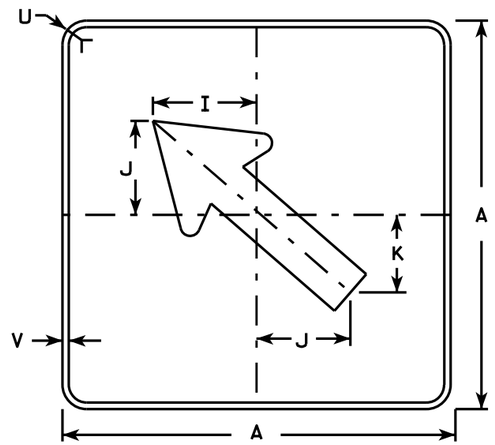
M6-2
MM6-2
MO6-2
MP6-2

NOTES

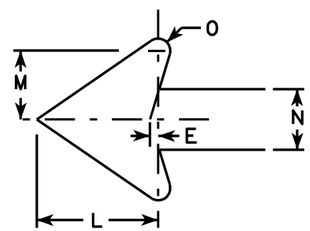
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



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																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

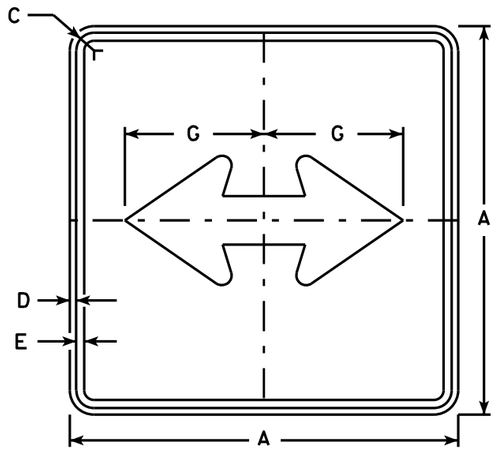
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M6-1.15

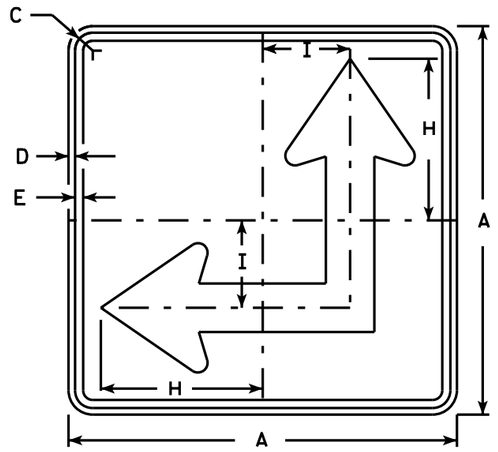
PROJECT NO: | HWY: | COUNTY: | SHEET NO. 126 | E

7

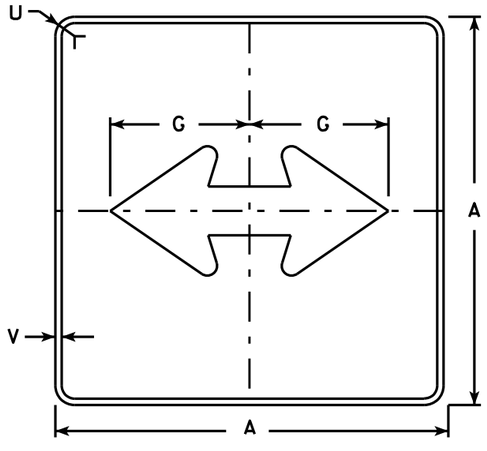
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 15-OCT-2015 13:17 PLOT BY : ss...plotuser...ss PLOT NAME : PLOT SCALE : 18.607113:1.000000
WISDOT/CADDS SHEET 42



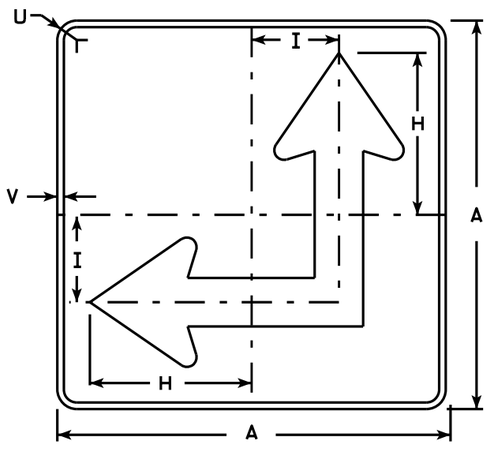
M6-4
MM6-4
MO6-4
MP6-4



M6-6
MM6-6
MO6-6
MP6-6



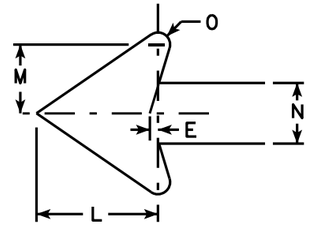
MB6-4
MK6-4
MN6-4
MR6-4



MB6-6
MK6-6
MN6-6
MR6-6

NOTES

1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
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. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow
5. M6-6R same as M6-6L except arrow points ahead and right.



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																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

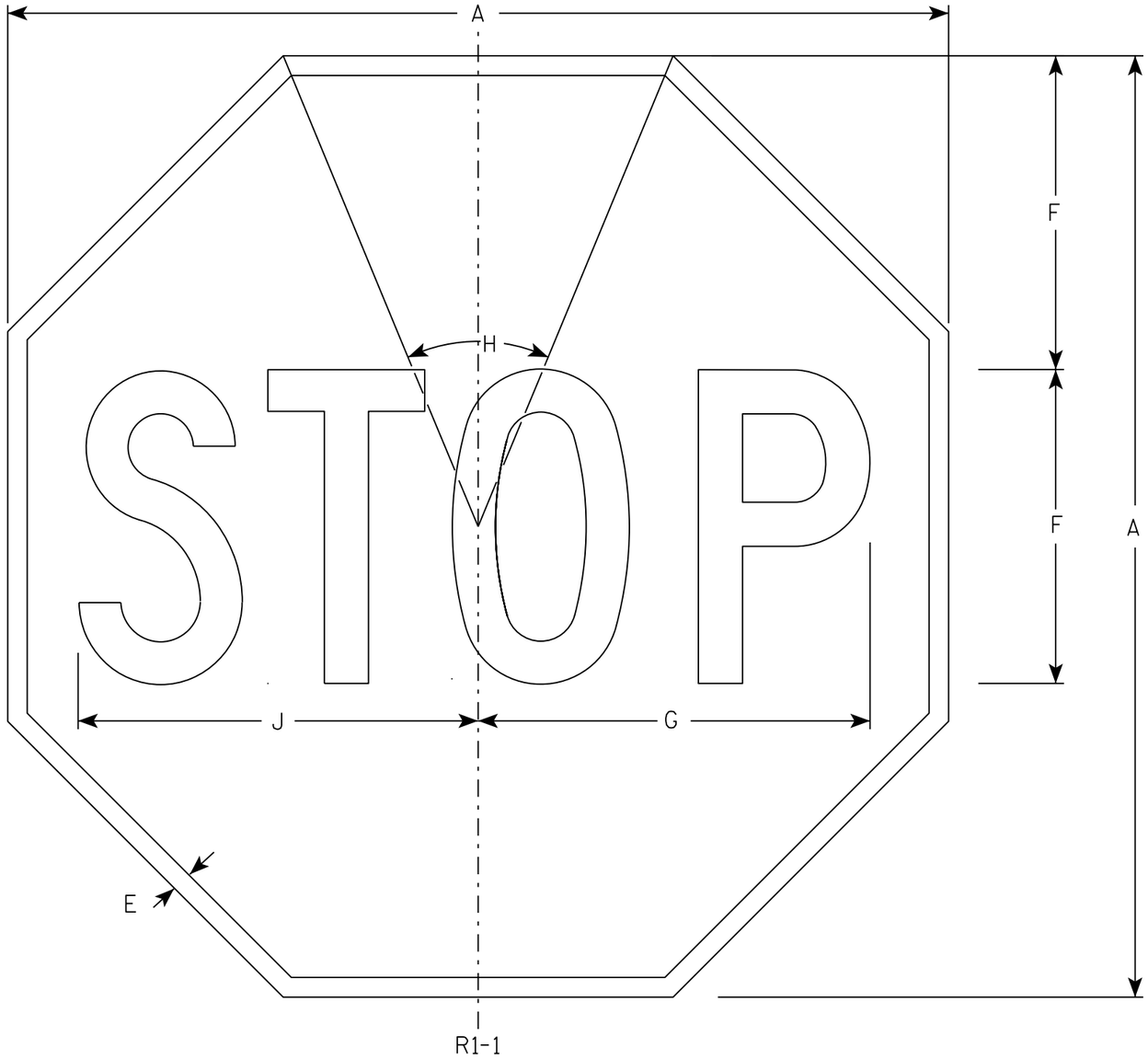
STANDARD SIGN
M6-4 & M6-6
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 10/15/15 PLATE NO. M6-4.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO. 127 | 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	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

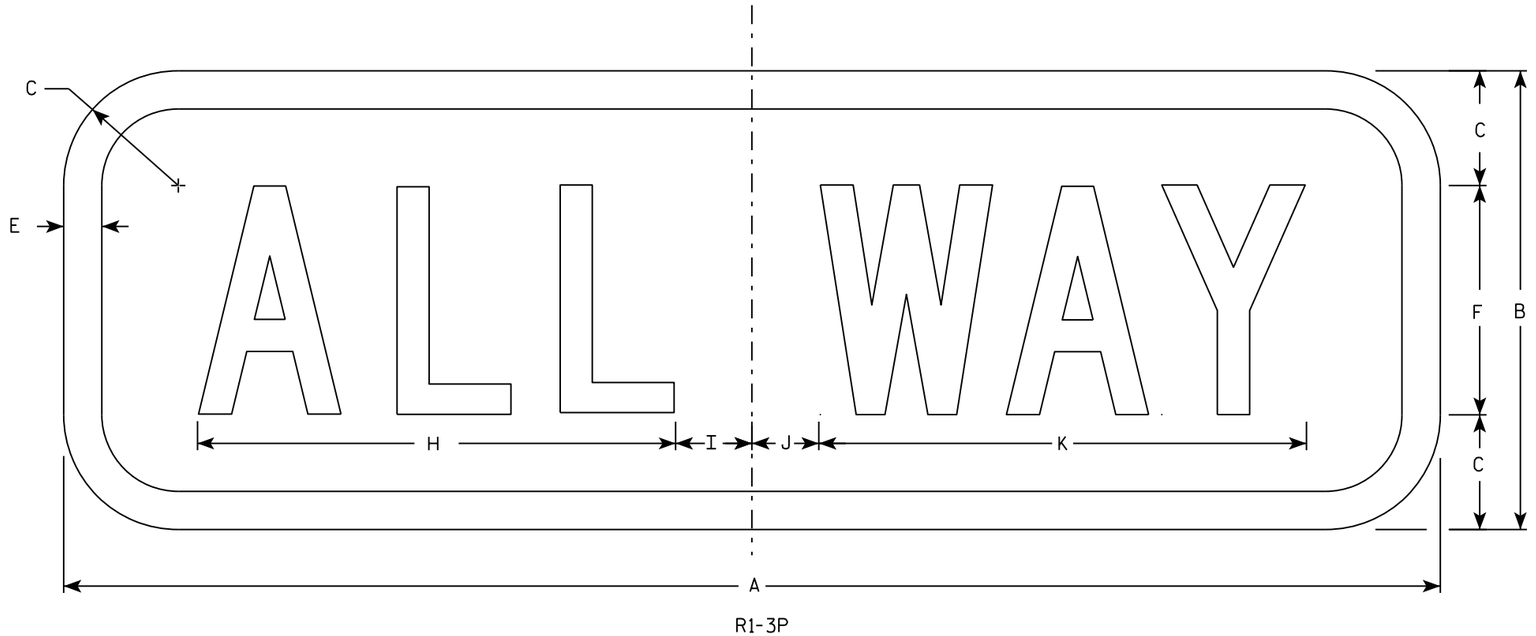
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 128 | E



R1-3P

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. For 30"x30" R1-1 use 18"x6" R1-3P sign
   For 36"x36" R1-1 use 24"x9" R1-3P sign
   For 48"x48" R1-1 use 30"x12" R1-3P sign

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	6	1 ½		½	3		6 ¼	1 ¼	⅞	6 ⅜																0.75
2S	18	6	1 ½		½	3		6 ¼	1 ¼	⅞	6 ⅜																1.5
2M	24	9	1 ½		½	5		9 ¼	1 ¼	¾	9 ¾																1.5
3	24	9	1 ½		½	5		9 ¼	1 ¼	¾	9 ¾																1.5
4	30	12	2 ¼		⅝	6		11	2 ¼	1 ½	11 ¾																2.5
5	30	12	2 ¼		⅝	6		11	2 ¼	1 ½	11 ¾																2.5

STANDARD SIGN

R1-3P

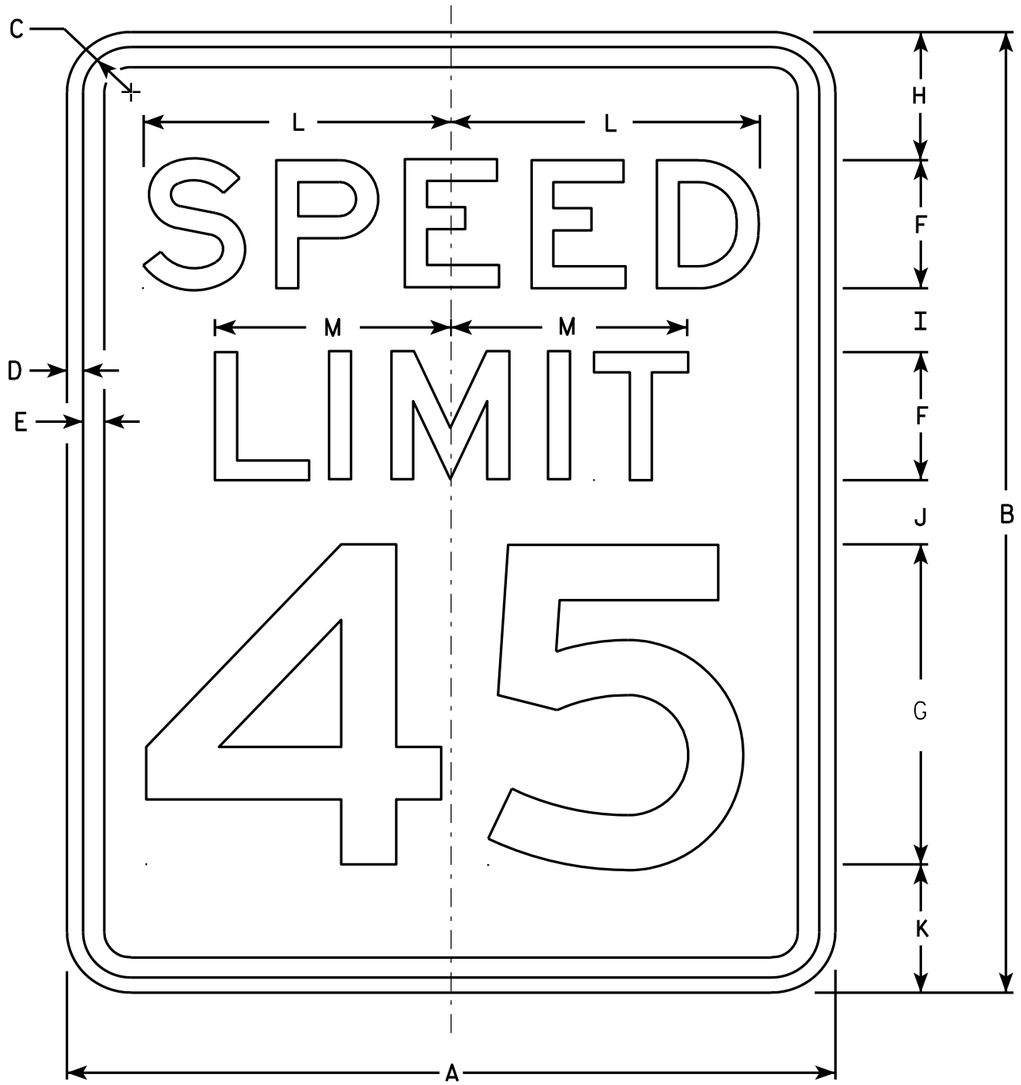
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

DATE 11/29/16 PLATE NO. R1-3P.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 129 | 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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 130	E



R9-56

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. Line 1 is Series E.
   Lines 2, 3, 4, 5 and 6 are 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																											
2S	18	24	1 1/8	3/8	1/2	3	1 1/2	2	1	3 1/8	6 3/8		5 1/4	2 1/8	5 3/4												3.0
2M	18	24	1 1/8	3/8	1/2	3	1 1/2	2	1	3 1/8	6 3/8		5 1/4	2 1/8	5 3/4												3.0
3																											
4																											
5																											

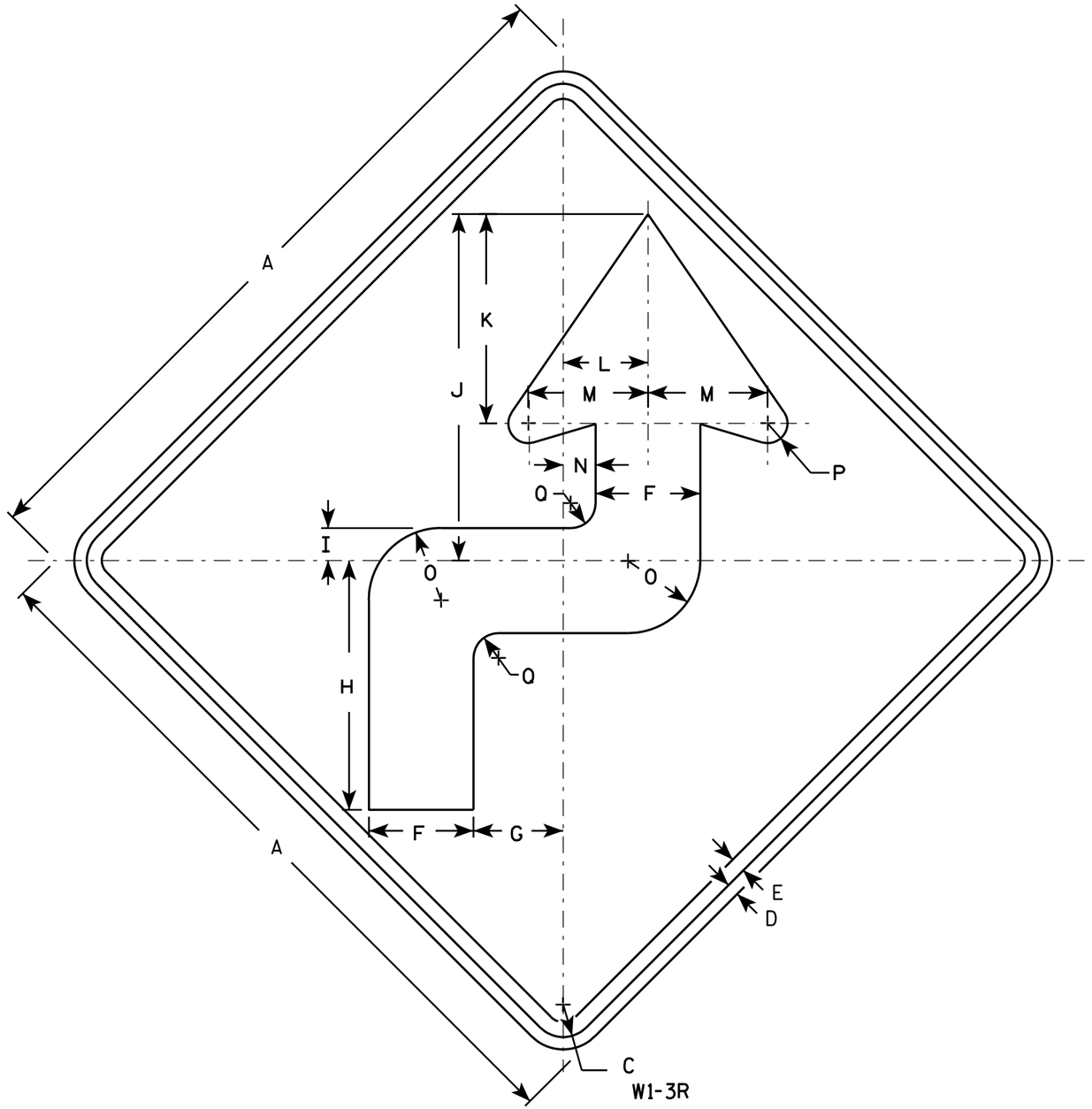
STANDARD SIGN
R9-56

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Zavis
for State Traffic Engineer

DATE 4/4/2011 PLATE NO. R9-56.5

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 131	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. 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. W1-3L is the same as W1-3R except the arrow is reversed along the vertical centerline.

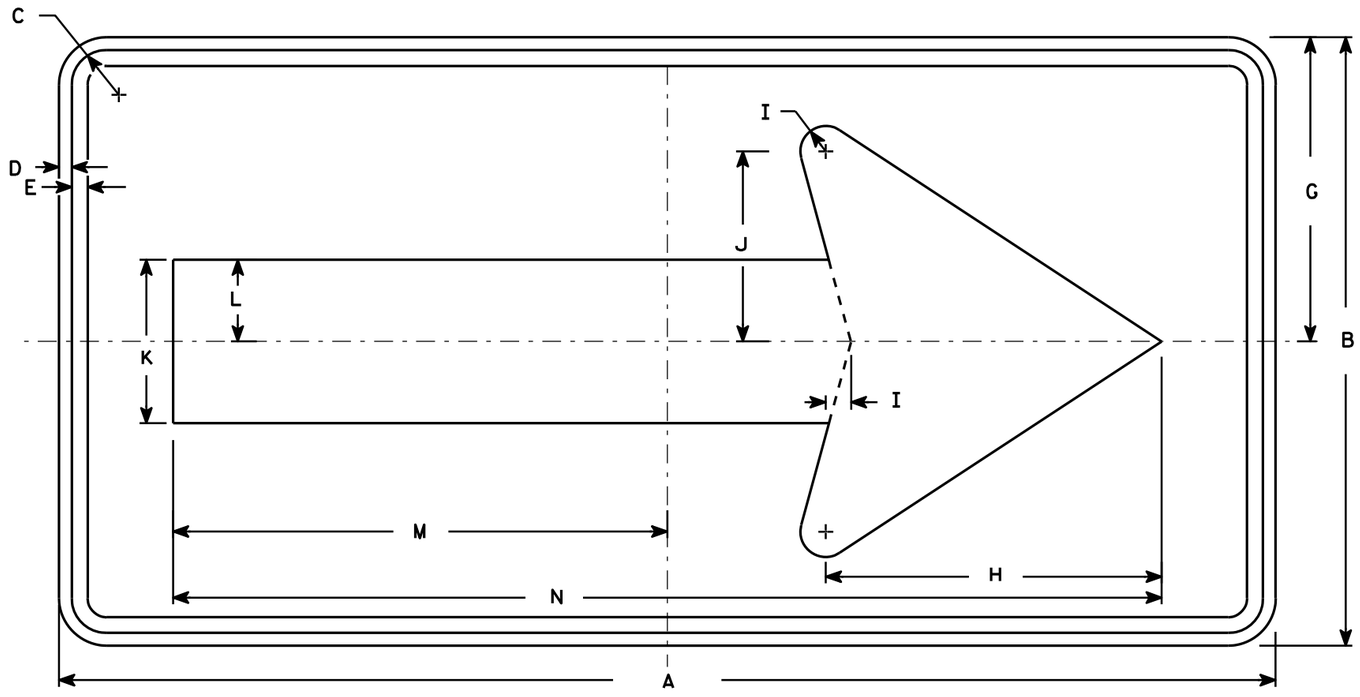
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	3 1/2	3	8 3/8	1 1/8	11 5/8	7	2 3/4	4	1 1/8	2 1/2	5/8	7/8										4.0
2S	36		1 5/8	5/8	3/4	5 1/4	4 1/2	12 1/2	1 5/8	17 3/8	10 1/2	4 1/4	6	1 5/8	3 5/8	1	1 1/4										9.0
2M	36		1 5/8	5/8	3/4	5 1/4	4 1/2	12 1/2	1 5/8	17 3/8	10 1/2	4 1/4	6	1 5/8	3 5/8	1	1 1/4										9.0
3	36		1 5/8	5/8	3/4	5 1/4	4 1/2	12 1/2	1 5/8	17 3/8	10 1/2	4 1/4	6	1 5/8	3 5/8	1	1 1/4										9.0
4	36		1 5/8	5/8	3/4	5 1/4	6	12 1/2	1 5/8	17 3/8	10 1/2	4 1/4	6	1 5/8	3 5/8	1	1 1/4										9.0
5	48		2 1/4	3/4	1	7	6	16 5/8	2 1/4	23 1/4	14	5 5/8	8	2 1/8	4 7/8	1 1/4	1 5/8										16.0

STANDARD SIGN
W1-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 5/17/12 PLATE NO. W1-3.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 132 | E



W1-6

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.

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	36	18	1 1/8	3/8	3/8		9	10	3/4	5 5/8	4 3/4	2 3/8	14 5/8	29 1/4													4.5
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

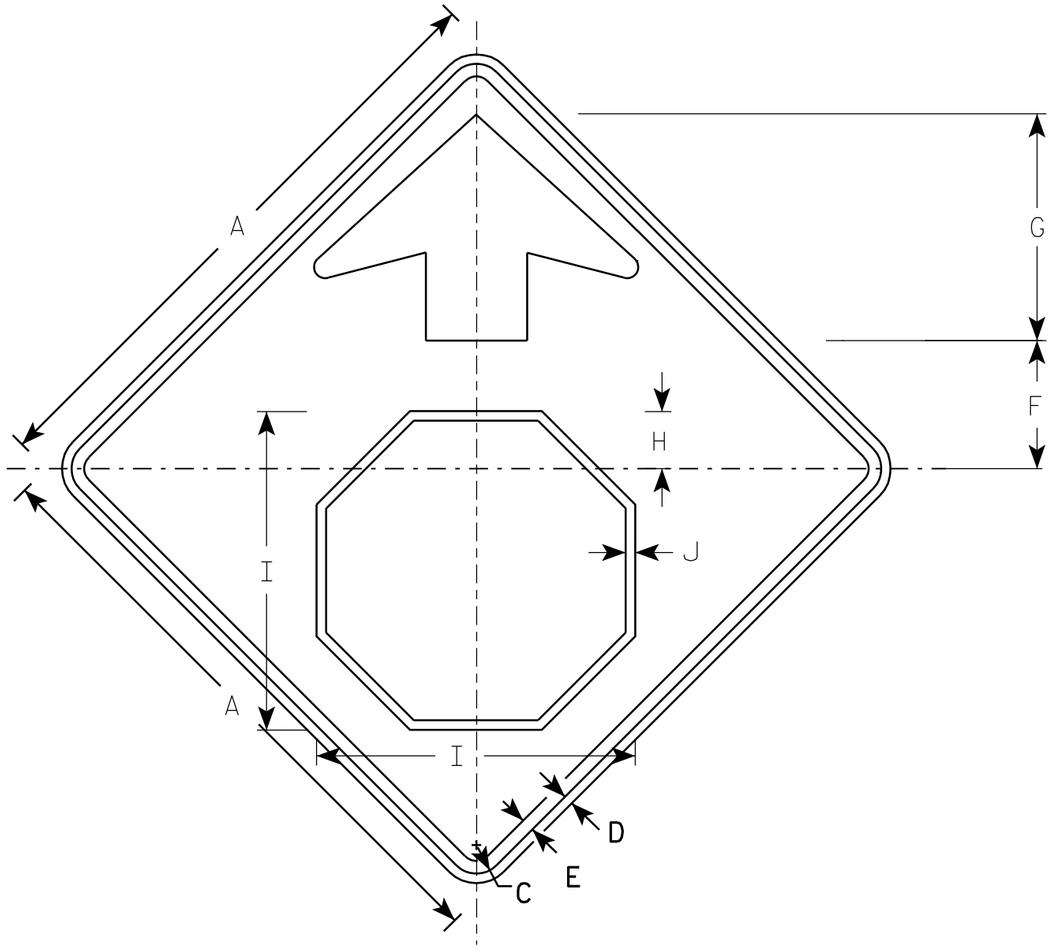
STANDARD SIGN
W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-6.8

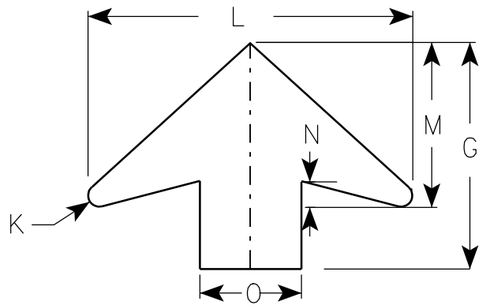
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 133



W3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Arrow & Border - BLACK
   Stop Symbol - WHITE BORDER ON RED 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	30		1 3/8	1/2	5/8	6 1/4	11 1/4	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

STANDARD SIGN
W3-1

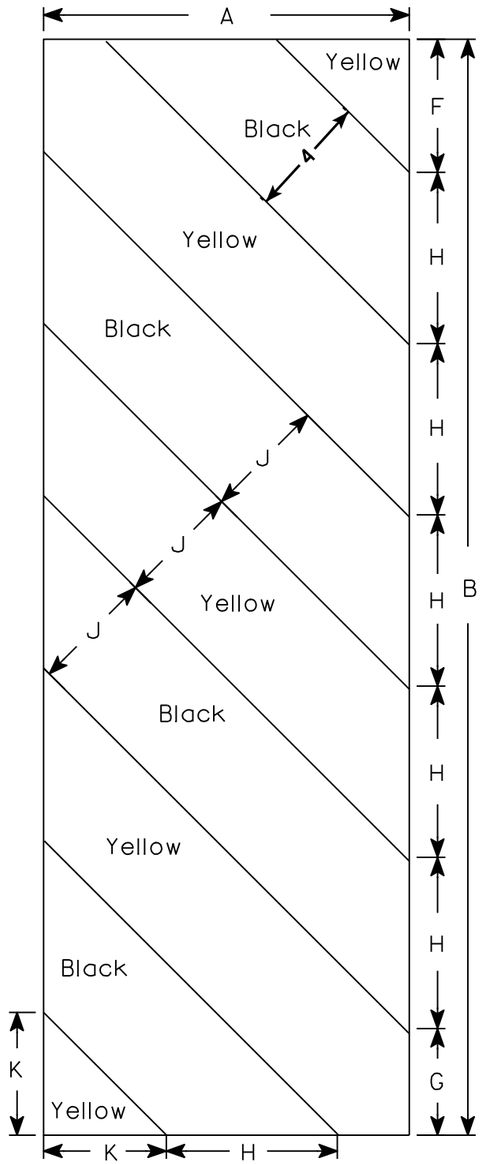
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

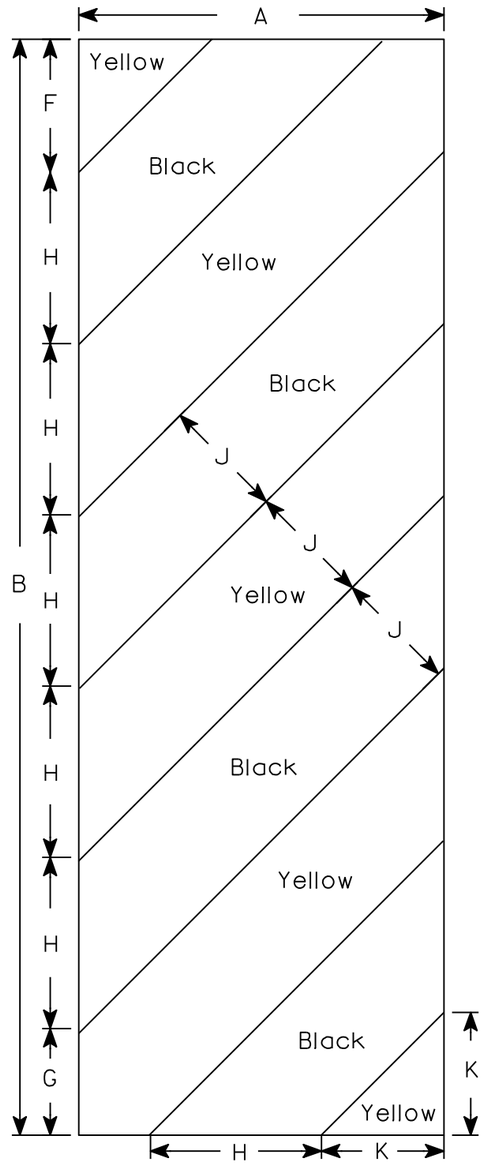
DATE 6/7/10 PLATE NO. W3-1.12

PROJECT NO:

SHEET NO: 134 E



W5-52L



W5-52R

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. Alternate colors of stripes as shown.

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	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

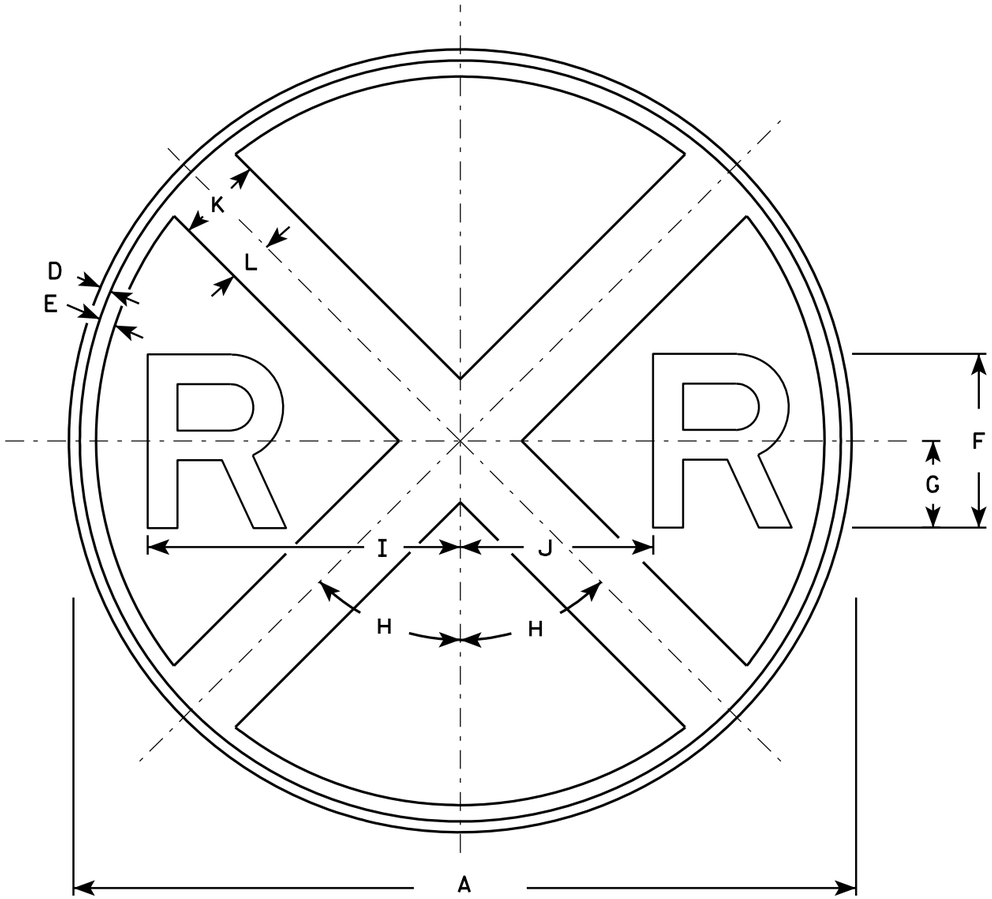
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W5-52.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 135	E



W10-1

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 - E

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	30			3/8	5/8	7	3 1/2	45°	12 3/8	7 1/8	3	1 1/2															4.91
2S	36			5/8	3/4	8	4	45°	14 3/8	8 5/8	4	2															7.07
2M	36			5/8	3/4	8	4	45°	14 3/8	8 5/8	4	2															7.07
3																											
4	48			3/4	1 1/4	10	5	45°	18 3/8	11 5/8	5	2 1/2															12.57
5																											

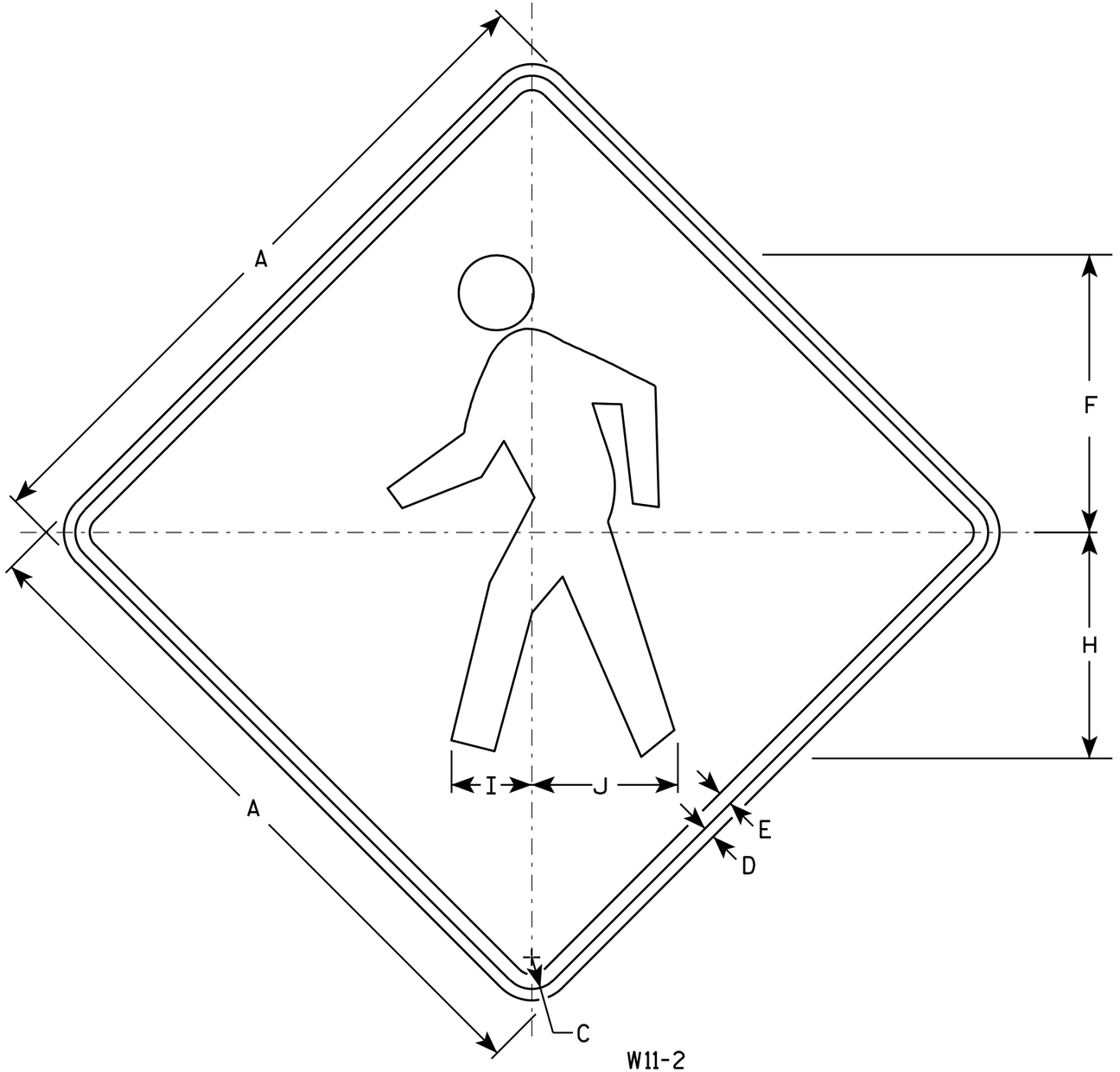
STANDARD SIGN
W10-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/13/13 PLATE NO. W10-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 136	E



W11-2

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.

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	9 3/4		7 7/8	2 7/8	5 1/8																	4.0
2S	30		1 3/8	1/2	5/8	12 1/8		9 7/8	3 1/2	6 3/8																	6.25
2M	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
3	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
4	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
5																											

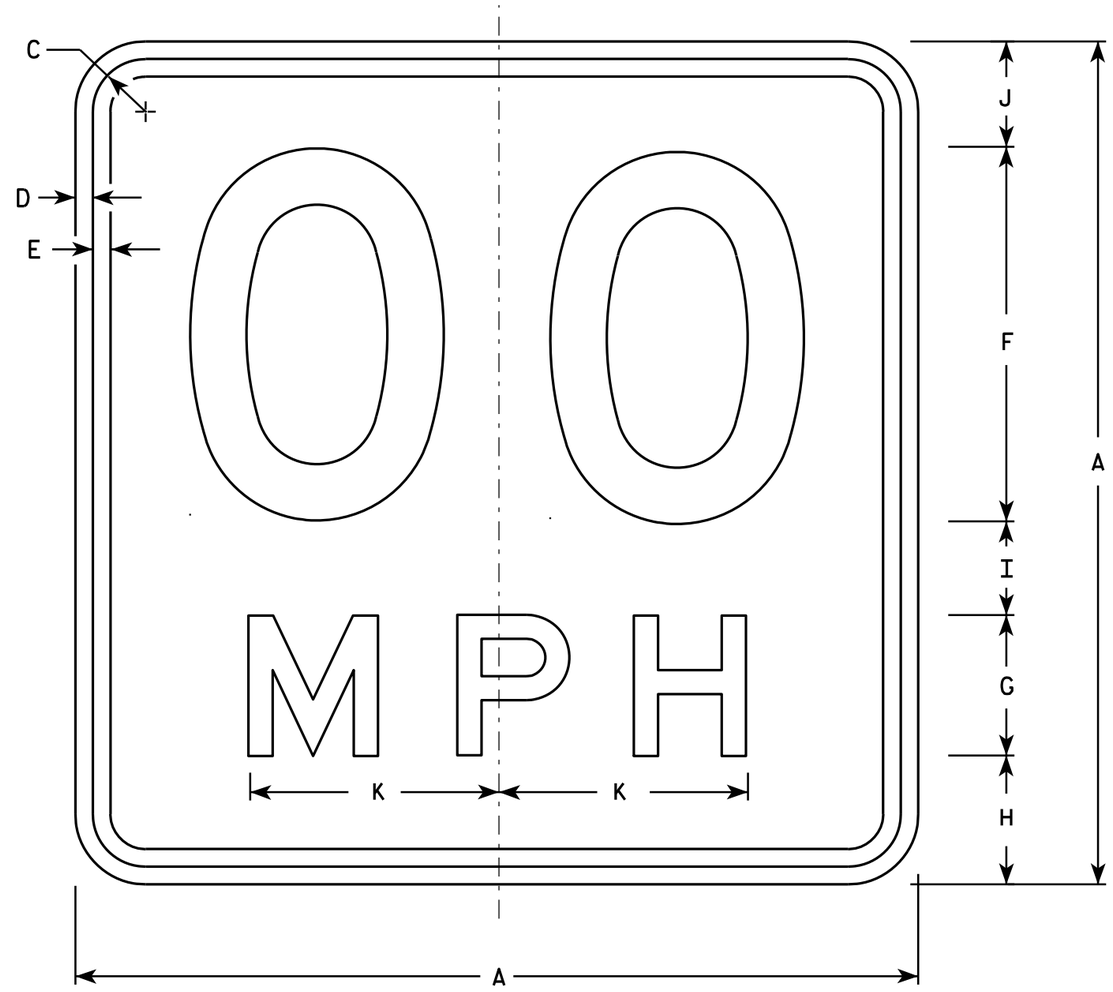
STANDARD SIGN
W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W11-2.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 137	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.

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

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

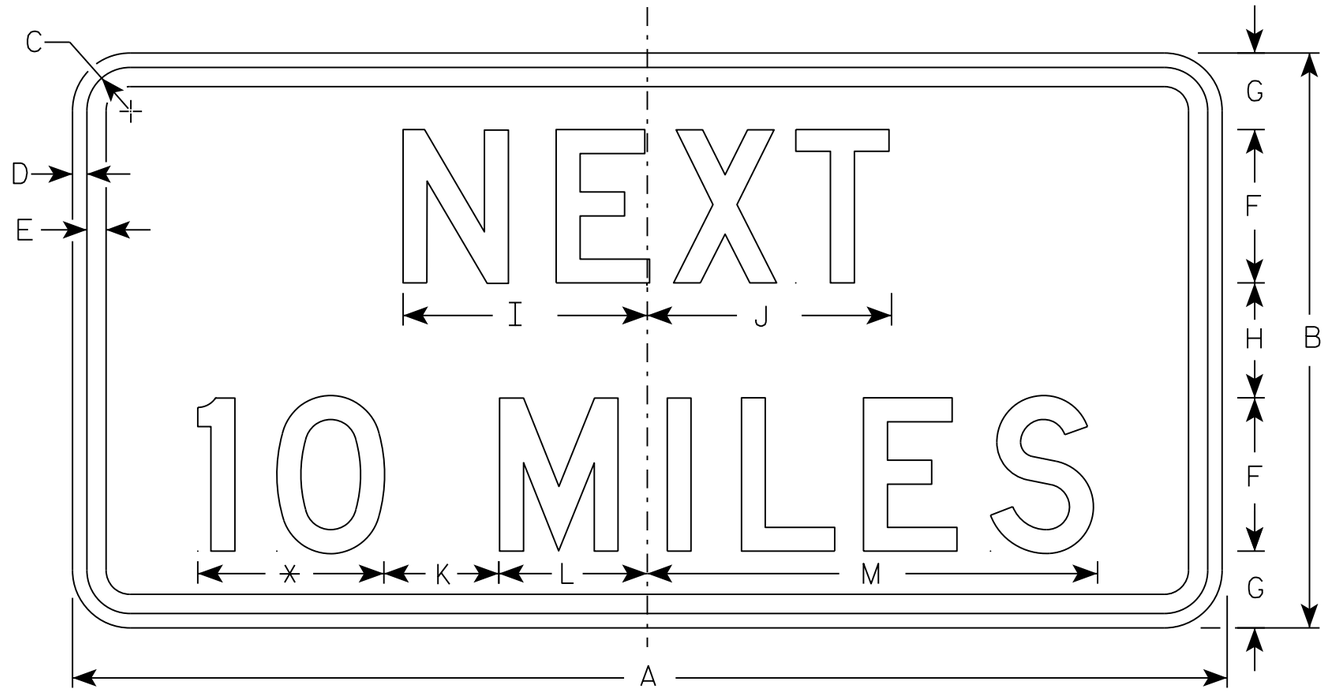
STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 138 | E



W57-51

* See note 5

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - D
4. Corners and borders shall be rounded.
5. Round distance to nearest whole Mile and 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	24	12	1 1/8	3/8	3/8	3	1 3/4	2 1/2	5	5 1/8	3	2 3/4	9 5/8														2.0
2S	30	15	1 1/8	3/8	1/2	4	2	3	6 3/8	6 3/8	3	3 7/8	11 3/4														3.13
2M	36	18	1 1/8	3/8	1/2	5	2 5/8	2 3/4	7 7/8	8	5	4 1/8	15 3/8														4.5
3	36	18	1 1/8	3/8	1/2	5	2 5/8	2 3/4	7 7/8	8	5	4 1/8	15 3/8														4.5
4	48	24	1 3/8	1/2	5/8	6	3 1/2	5	10	10 1/8	6	5 5/8	19														8.0
5	48	24	1 3/8	1/2	5/8	6	3 1/2	5	10	10 1/8	6	5 5/8	19														8.0

STANDARD SIGN
W57-51

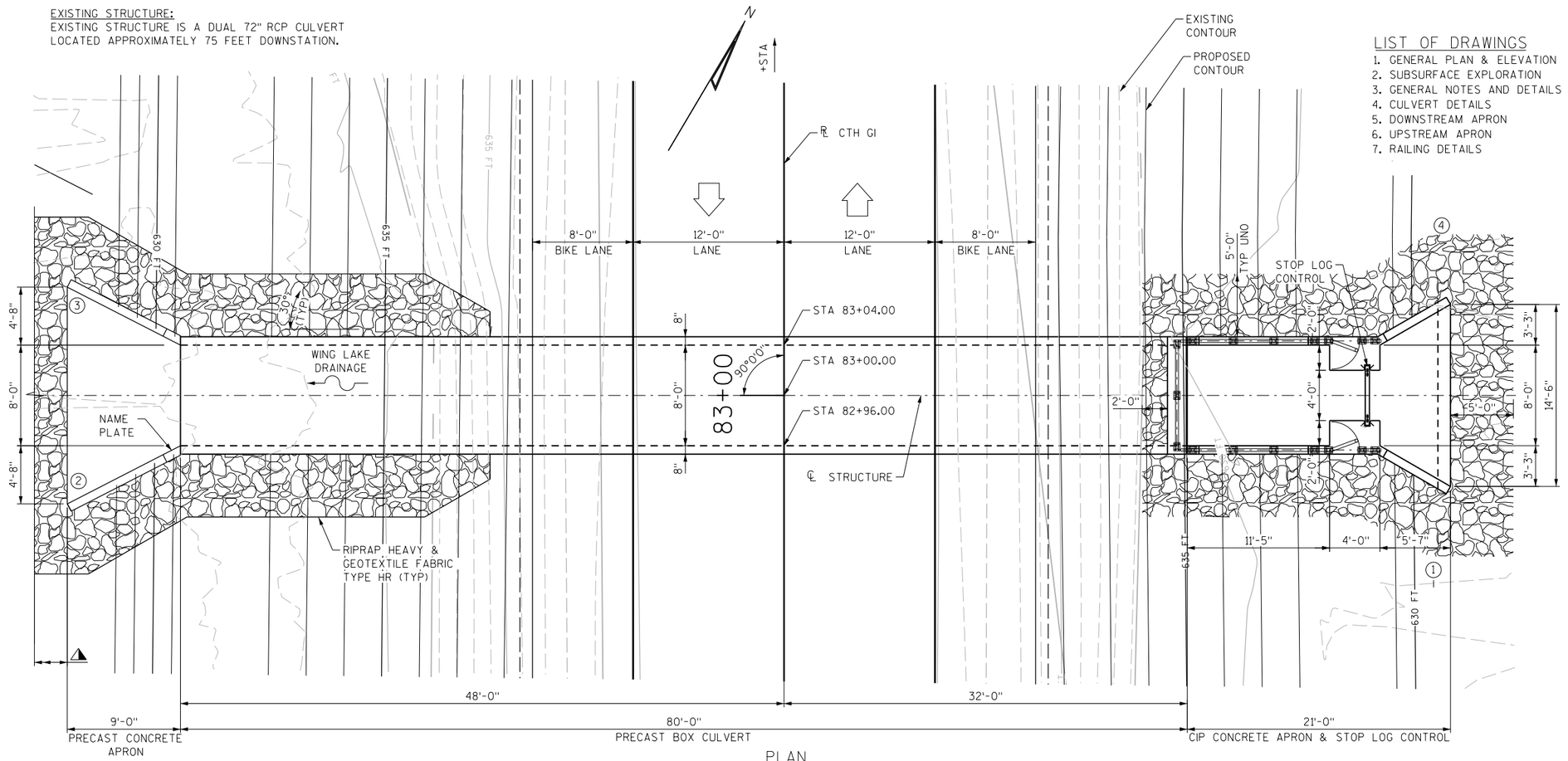
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/14/17 PLATE NO. W57-51.10

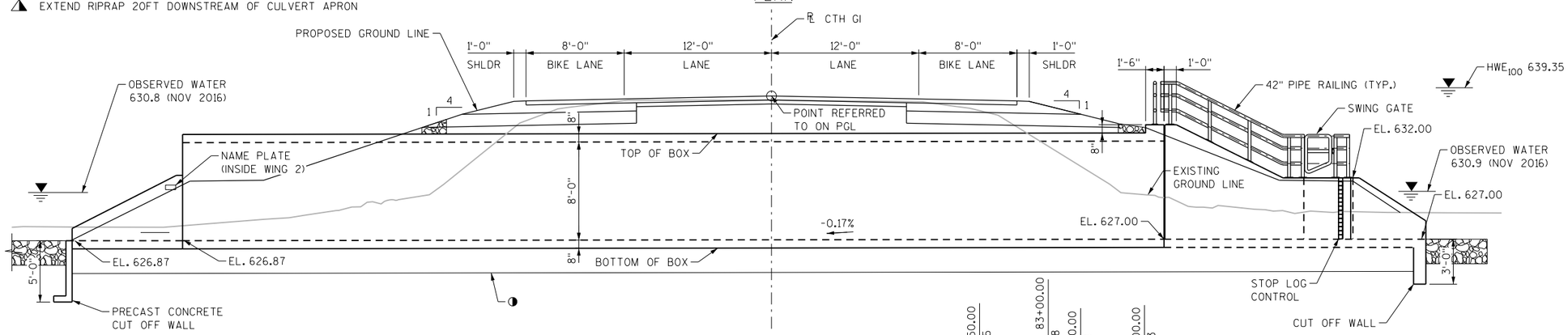
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 139 | E

EXISTING STRUCTURE:
EXISTING STRUCTURE IS A DUAL 72" RCP CULVERT
LOCATED APPROXIMATELY 75 FEET DOWNSTATION.

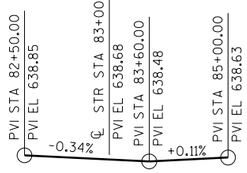


⚠ EXTEND RIPRAP 20FT DOWNSTREAM OF CULVERT APRON

PLAN



ELEVATION



PROFILE GRADE LINE
CTH GI

BENCHMARKS

NAME	STA. OFFSET	DESCRIPTION	ELEV.
18	87+93.87, 66.9' RT	RR SPIKE IN 22" TREE	633.72
19	73+42.32, 60.4' LT	RR SPIKE IN 12" TREE	634.03

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. SUBSURFACE EXPLORATION
3. GENERAL NOTES AND DETAILS
4. CULVERT DETAILS
5. DOWNSTREAM APRON
6. UPSTREAM APRON
7. RAILING DETAILS

STATE PROJECT NUMBER
5085-00-70

DESIGN DATA

LIVE LOAD:
DESIGN LOADING _____ HL-93
INVENTORY RATING FACTOR _____ RF = 1.05
OPERATING RATING FACTOR _____ RF = 1.35
WISCONSIN STANDARD PERMIT VEHICLE _____ 255 KIPS

EARTH LOAD:
DESIGNED FOR 2.5 TO 3.1 FEET OF FILL

FOUNDATION DATA:
MAXIMUM FACTORED BEARING RESISTANCE _ 1,500 P.S.F.

MATERIAL PROPERTIES:
CONCRETE MASONRY CULVERTS __ f'c = 3,500 P.S.I.
PRECAST CONCRETE _____ f'c = 4,000 P.S.I.
HIGH-STRENGTH BAR STEEL REINFORCEMENT _____ fy = 60,000 P.S.I.

TRAFFIC DATA

A.D.T. (2018) _____ 810
A.D.T. (2038) _____ 900
DESIGN SPEED _____ 25 M.P.H.

HYDRAULIC DATA

HIGH WATER$_{100}$ ELEVATION _____ 639.35
HWE $_{100}$ IS BASED ON FLOOD INSURANCE STUDY (FIS) ELEVATION OF THE MISSISSIPPI RIVER
SCOUR CRITICAL CODE _____ N

LEGEND

◯ INDICATES WING NUMBER.

◑ UNDER CUT STRUCTURE (TO BE PAID FOR UNDER "EXCAVATION FOR STRUCTURES"). PLACE GEOTEXTILE TYPE C AND BACKFILL WITH STRUCTURE BACKFILL TYPE B. EXTEND 3FT BEYOND THE FOOTPRINT OF THE CULVERT.

EDGE OF WETLAND

WISCONSIN PROFESSIONAL ENGINEER
WILLIAM J. ZIPPEL
38868-006
MILWAUKEE, WI
6/31/2018

NO.	DATE	REVISION	BY

benesch
Alfred Benesch & Company
1300 West Canal Street, Suite 150
Milwaukee, Wisconsin 53233
414-308-1310 Job No. 20236.00

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
ACCEPTED William C. Dreher SDR 11/13/18
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE C-32-103

CTH GI OVER WING LAKE DRAINAGE

COUNTY	TOWN/~~CITY/VILLAGE~~
LACROSSE	SHELBY

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
JAP	WJZ	JAP	WJZ

GENERAL PLAN & ELEVATION

SHEET 1 OF 7

140

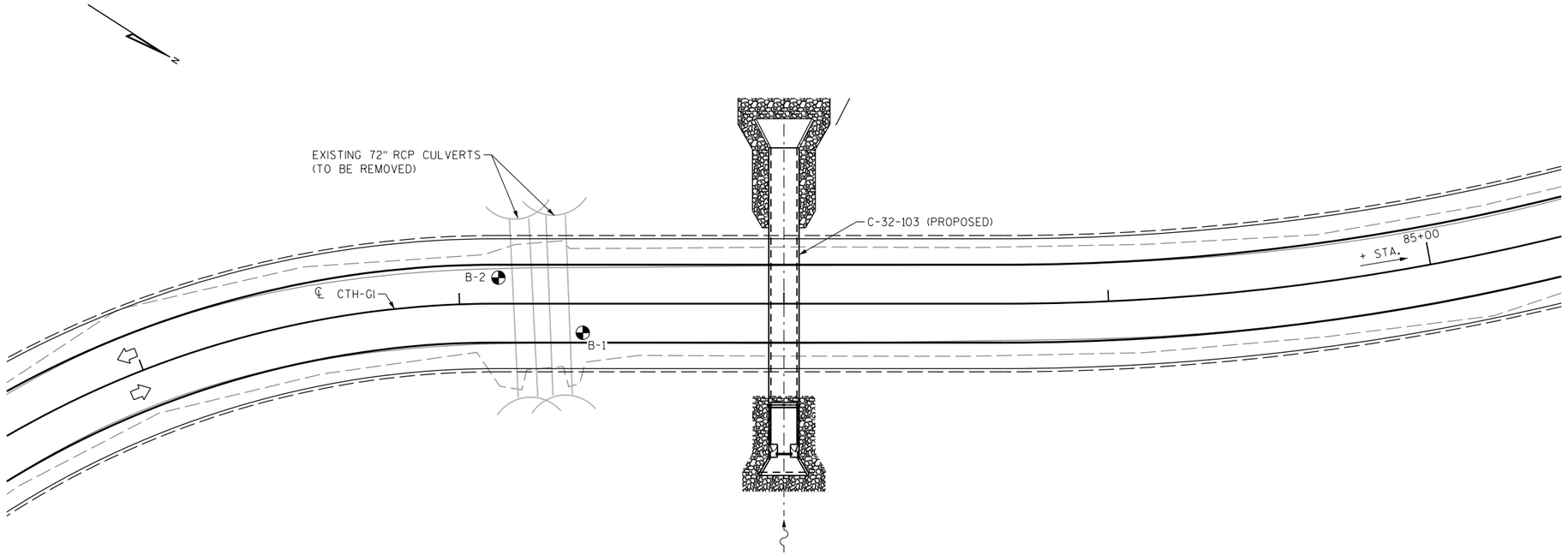
DESIGN CONSULTANT
WILLIAM J. ZIPPEL, PE, SE
ALFRED BENESCH & CO
1300 W CANAL ST, SUITE 150
MILWAUKEE, WI 53233
(414) 308-1321

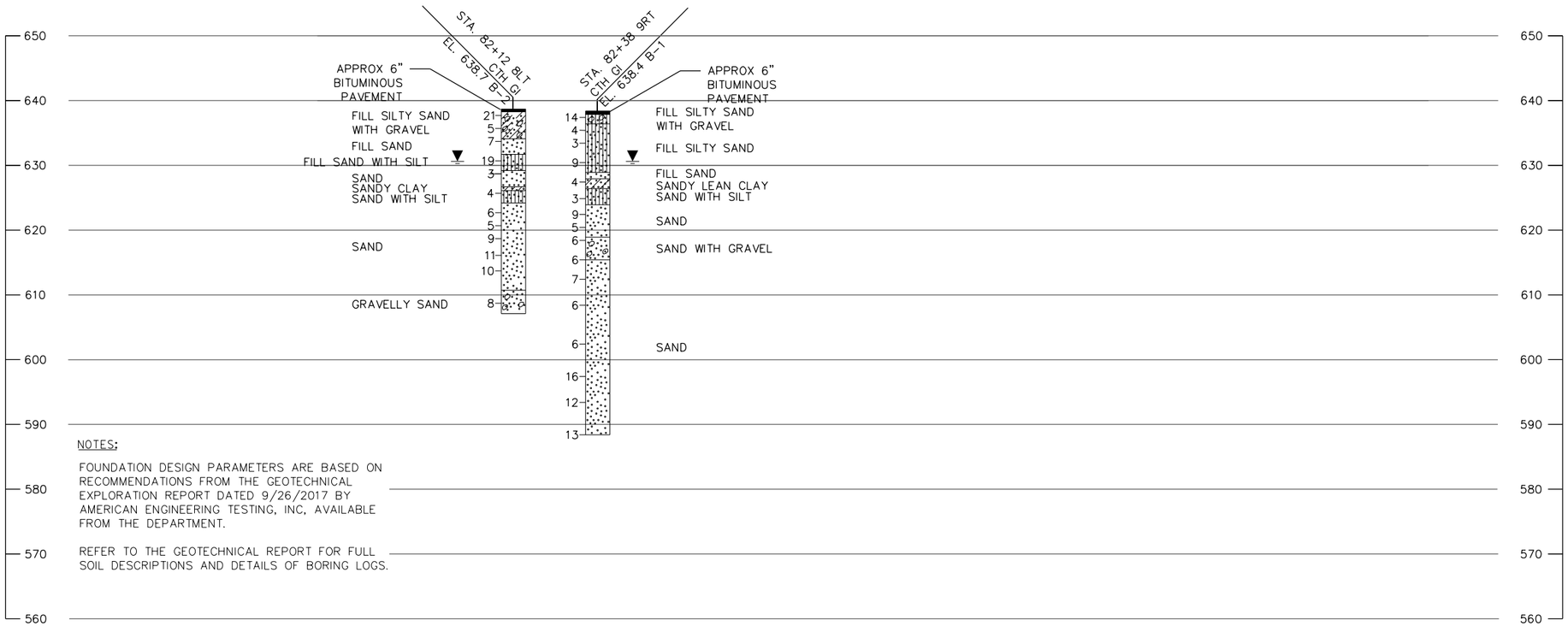
BRIDGE OFFICE CONTACT
WILLIAM DREHER, PE
(608) 266-8489

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NOTES:

FOUNDATION DESIGN PARAMETERS ARE BASED ON RECOMMENDATIONS FROM THE GEOTECHNICAL EXPLORATION REPORT DATED 9/26/2017 BY AMERICAN ENGINEERING TESTING, INC, AVAILABLE FROM THE DEPARTMENT.

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

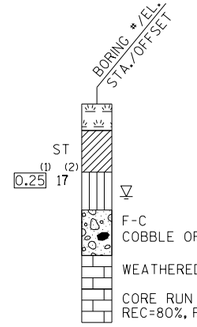
STATE PROJECT NUMBER

5085-00-70

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- ▽ AT TIME OF DRILLING
- ▼ END OF DRILLING
- ▼ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-32-103

DRAWN BY JAP | PLANS CK'D. WJZ

SUBSURFACE EXPLORATION

SHEET 2 OF 7

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STATE PROJECT NUMBER
5085-00-70

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	ITEM DESCRIPTION	UNIT	QTY
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-32-103	LS	1
206.5000	COFFERDAMS C-32-103	LS	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	656
606.0300	RIPRAP HEAVY	CY	96
504.0100	CONCRETE MASONRY CULVERTS	CY	19
504.1000.S	PRECAST CONCRETE WINGWALLS C-32-103	LS	1
504.2000.S	PRECAST CONCRETE BOX CULVERT, 8FT X 8FT	LF	80
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1995
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	626
513.2001	RAILING PIPE C-32-103	LF	41
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	5
645.0105	GEOTEXTILE TYPE C	SY	190
645.0120	GEOTEXTILE TYPE HR	SY	144
SPV.0105.50	STOP LOG SYSTEM	LS	1
	NON-BID ITEMS		
	NAME PLATE		
	JOINT FILLER		
	JOINT SEALER		

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

PRECAST BOX STEEL REINFORCEMENT MAY BE EITHER GRADE 60 DEFORMED BARS (FY = 60,000 P.S.I) OR WELDED DEFORMED WIRE FABRIC OF EQUIVALENT AREA (FY = 65,000 P.S.I).

ALTERNATIVE DETAILS OF EQUAL STRENGTH AND HYDRAULIC CAPACITY TO THE DETAILS SHOWN ON THIS SHEET MAY BE PROPOSED TO THE ENGINEER FOR REVIEW AND APPROVAL.

THE PRECAST ELEMENTS SHALL BE PROVIDED WITH SUITABLE LIFTING DEVICES FOR HANDLING AND PLACEMENT OF THE ELEMENTS.

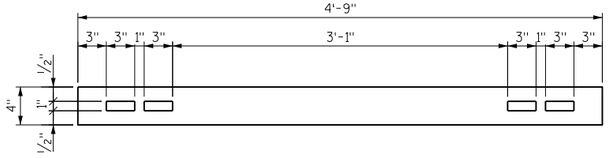
THE MAXIMUM BAR SIZE OF GRADE 60 DEFORMED BARS SHALL BE #5 UNLESS NOTED OTHERWISE.

PRECAST CUTOFF WALL AND HEADER ELEMENTS MAY BE CAST IN PLACE AT THE OPTION OF THE CONTRACTOR. COST FOR PRECAST CONCRETE BOX CULVERT WILL NOT BE ADJUSTED AND NO ADDITIONAL PAYMENT FOR CONCRETE MASONRY WILL BE PROVIDED.

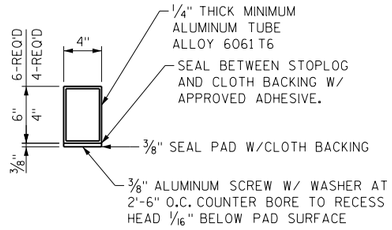
NON-SHRINK GROUT SHALL BE FURNISHED FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. COST IS INCLUDED IN COST OF PRECAST CONCRETE BOX CULVERT.

SUBMIT SHOP ASSEMBLY DRAWINGS TO THE ENGINEER PRIOR TO FABRICATION.

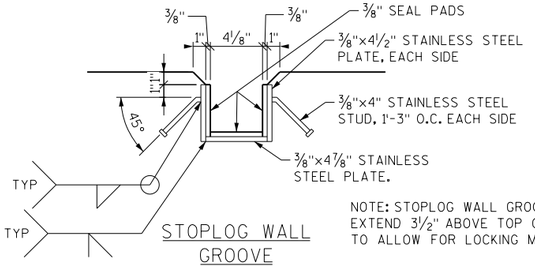
SUBMIT ERECTION SEQUENCE DRAWINGS TO THE ENGINEER PRIOR TO DELIVERY OF PRECAST UNITS TO SITE.



STOPLOG PLAN
QTY: 11

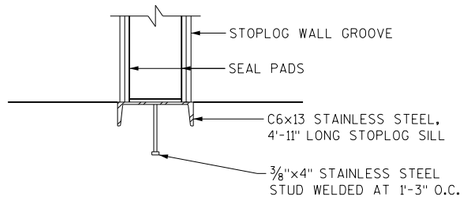


STOPLOG SECTION



STOPLOG WALL GROOVE

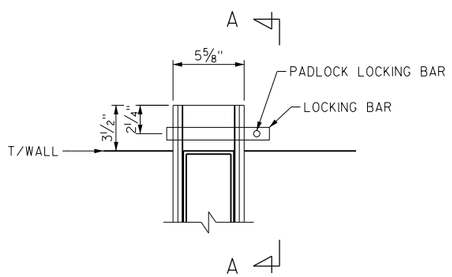
NOTE: STOPLOG WALL GROOVE TO EXTEND 3½" ABOVE TOP OF WALL TO ALLOW FOR LOCKING MECHANISM.



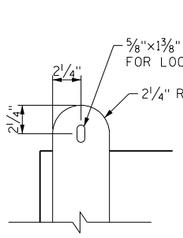
NOTES:

1. CENTER STOPLOG SILL ON CENTER OF STOPLOG GROOVE.
2. SEAL PADS TO EXTEND FULL HEIGHT OF STOPLOG GROOVE. ATTACH TO STOPLOG GROOVE WITH ⅜" STAINLESS STEEL SCREWS AT 1'-0" O.C. AND APPROVED ADHESIVE.

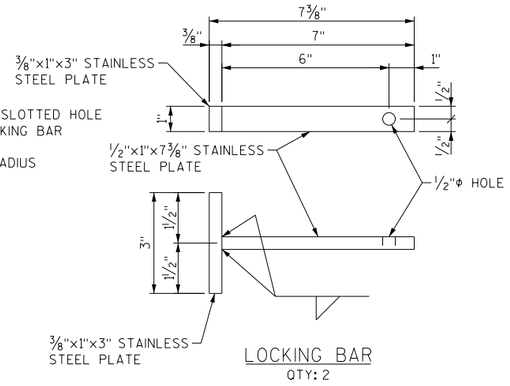
STOPLOG FLOOR SILL



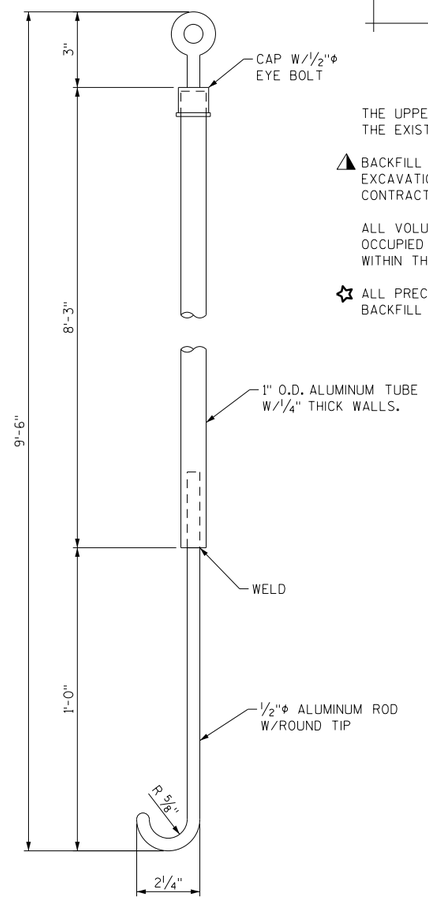
STOPLOG LOCKING MECHANISM



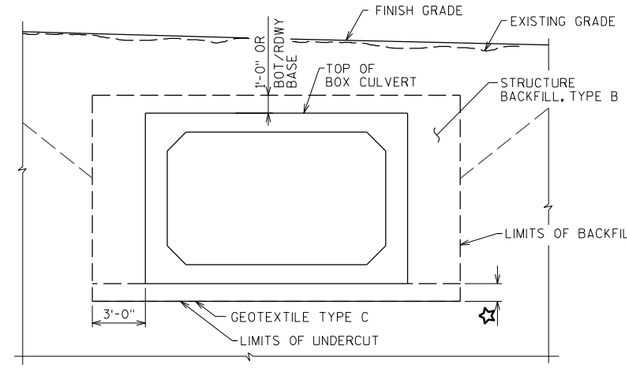
SECTION A-A



LOCKING BAR
QTY: 2



STOPLOG HOOK
QTY: 2



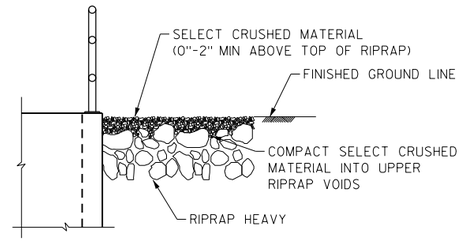
TYPICAL SECTION
THRU BOX CULVERT

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS B-32-103 SHALL BE THE EXISTING GROUNDLINE.

⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

ALL VOLUME WHICH CANNOT BE PLACED BEFORE CULVERT CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL WITHIN THE LENGTH OF THE CULVERT.

☆ ALL PRECAST BOX SECTIONS SHALL BE PLACED ON A BEDDING OF "STRUCTURE BACKFILL TYPE B" OF 2'-0" MINIMUM DEPTH.



CREATE WALKING SURFACE ACROSS RIPRAP USING SELECT CRUSHED MATERIAL PLACED INTO RIPRAP UPPER VOIDS.

PLACE SELECT CRUSHED MATERIAL 6 FT WIDE AT WINGS 1 AND 4.

SELECT CRUSHED MATERIAL SHALL BE FREE OF MATERIAL PASSING THE NO.4 SIEVE.

SECTION AT GATE
(UPSTREAM APRON)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-32-103

DRAWN BY JAP | PLANS CK'D. WJZ

GENERAL NOTES AND DETAILS

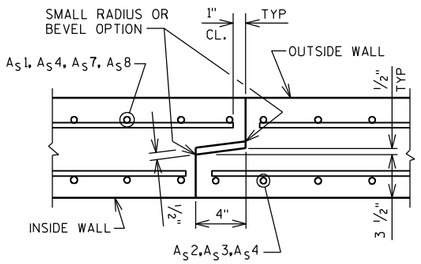
SHEET 3 OF 7

142

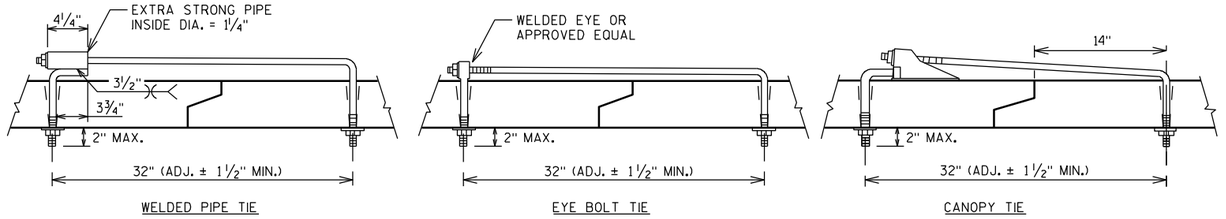
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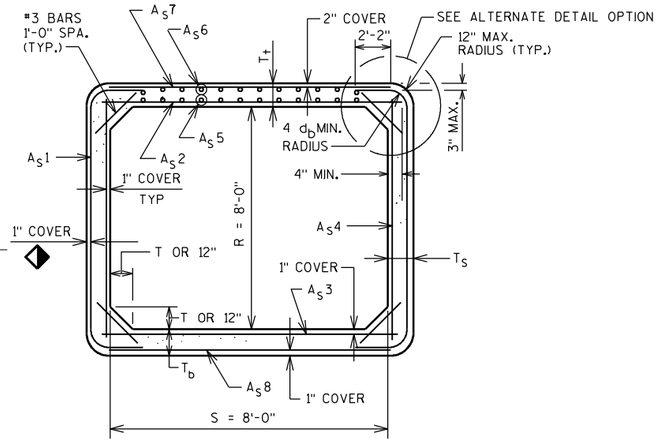


JOINT DETAIL



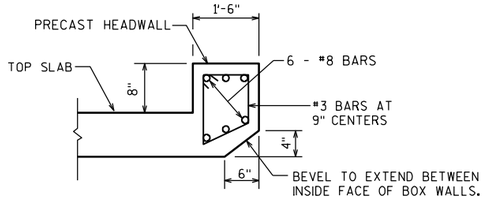
JOINT TIES

NOTES:
EITHER EYE BOLT TIES, WELDED PIPE TIES, OR CANOPY TIES MAY BE USED.
THREADS MAY BE CUT OR ROLLED. TIE NUTS SHALL BE TIGHTENED AS DIRECTED BY THE ENGINEER. (2 TIES REQ'D. PER JOINT.) (TIES TO BE GALVANIZED.)

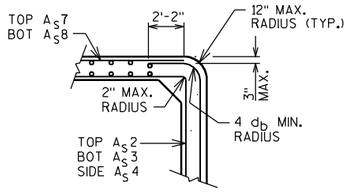


SECTION THRU BARREL

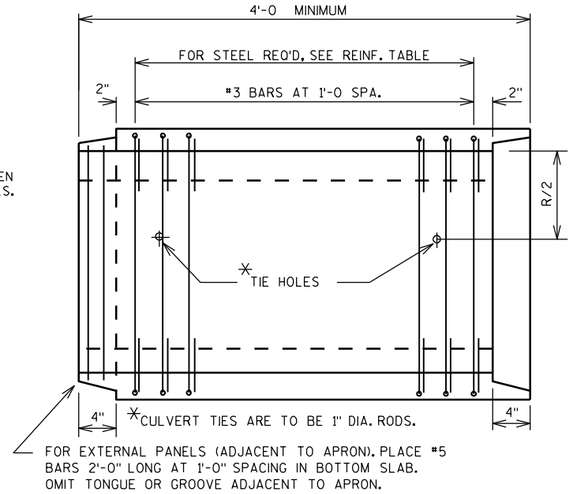
◆ 1" OR 3 x WIRE DIAMETER, WHICHEVER IS GREATER



HEADWALL DETAIL
(TYPICAL AT INLET AND OUTLET)



ALTERNATE DETAIL OPTION



LONGITUDINAL SECTION

BOX CULVERT DATA

DIMENSIONS				
S =8.0 (FT.)	R =8.0 (FT.)	T OR T_S, T_b, T_f = 8 (IN)	EARTH COVER 2.0 TO 3.1 (FT)	
REINFORCEMENT			AREA/FT.	LENGTH
A_S 1			0.62	
A_S 2			0.42	
A_S 3			0.42	
A_S 4			0.20	
A_S 5			0.20	
A_S 6			0.20	
A_S 7			0.20	
A_S 8			0.20	
TOTAL BARREL OR PANEL LENGTH			80'-0"	

STATE PROJECT NUMBER

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NOTES

DETAILS FOR MATERIALS, FABRICATION, CONSTRUCTION AND DESIGN OF PRECAST BOX CULVERTS NOT SHOWN OR STATED ON THIS DRAWING SHALL BE IN ACCORDANCE WITH THE CURRENT ASTM SPECIFICATION, C1577; AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS; WISCONSIN DOT BRIDGE MANUAL; WISCONSIN DOT STANDARD SPECIFICATIONS & APPLICABLE SPECIAL PROVISIONS, EXCEPT THAT THE CONCRETE MIXTURE SHALL CONTAIN NOT LESS THAN 565 LBS. OF CEMENTITIOUS MATERIALS PER CUBIC YARD.

THE DESIGN OF PRECAST BOX CULVERTS WITH ALL FILL HEIGHTS SHALL BE AS STATED IN ASTM C1577.

ALL PRECAST BOX SECTIONS SHALL BE PLACED ON A BEDDING OF "STRUCTURE BACKFILL" OF 2'-0" MINIMUM DEPTH.

THE COVER OF CONCRETE OVER THE REINFORCEMENT SHALL BE 1 INCH OR 2 INCHES AS SHOWN WITH AN ALLOWABLE VARIATION OF $-\frac{3}{8}$" TO $+\frac{1}{2}$ INCH.

THE SPACING CTR. TO CTR. OF THE CIRCUMFERENTIAL WIRES SHALL NOT BE LESS THAN 2 INCHES NOR MORE THAN 4 INCHES. THE SPACING CTR. TO CTR. OF THE LONGITUDINAL WIRES SHALL NOT BE MORE THAN 8 INCHES.

NOT MORE THAN FOUR (4) HOLES MAY BE CAST, DRILLED OR OTHERWISE NEATLY MADE IN THE SHELL OF EACH PIECE OF BOX SECTION FOR HANDLING. THE HOLES SHALL BE TAPERED UNLESS DRILLED. HOLES SHALL BE FILLED WITH PORTLAND CEMENT MORTAR EXCEPT TAPERED HOLES MAY BE FILLED WITH CONCRETE PLUGS SECURED WITH PORTLAND CEMENT MORTAR OR OTHER APPROVED ADHESIVE.

THE JOINT ON THE BOTTOM OF THE CULVERT & THE SIDES OF THE CULVERT FROM THE BOTTOM TO A POINT 1'-0" FROM THE CEILING SHALL BE SEALED WITH A PREFORMED MASTIC. PREFORMED MASTIC MUST CONFORM TO AASHTO MATERIALS SPEC, M198, TYPE B, A 2'-0" STRIP OF GEOTEXTILE FABRIC SHALL BE PLACED OVER THE JOINTS ON THE TOP AND ON THE SIDES OF THE CULVERT. THE GEOTEXTILE FABRIC SHALL COMPLY WITH REQUIREMENTS OF STANDARD SPECIFICATION 645.2.4. SCHEDULE A. (FABRIC NOT REQUIRED OVER INSIDE WALL JOINTS OF MULTICELL INSTALLATION.)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-32-103

DRAWN BY JAP | PLANS CK'D. WJZ

CULVERT DETAILS

SHEET 4 OF 7

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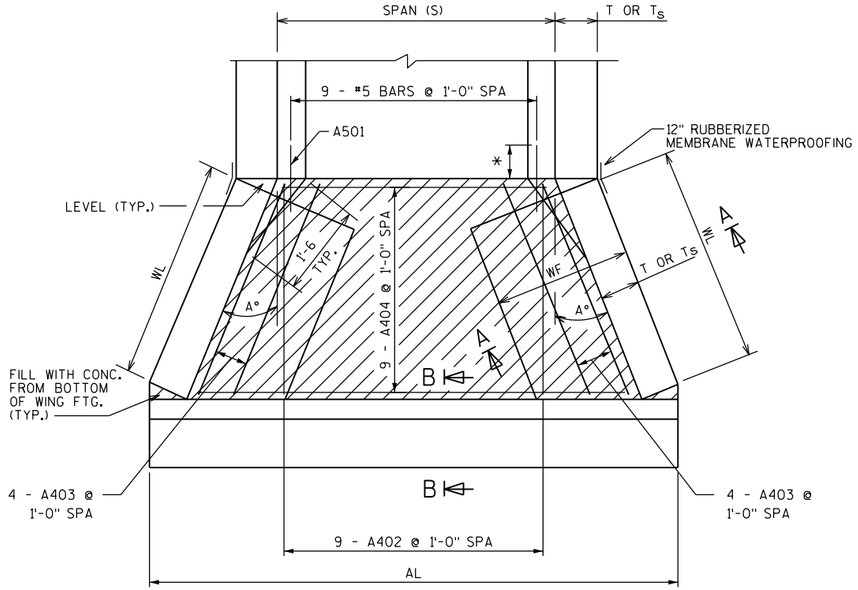
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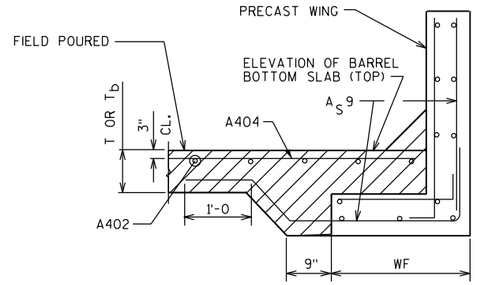
STATE PROJECT NUMBER

5085-00-70

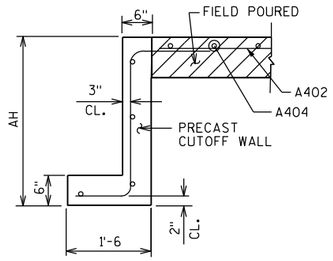


APRON PLAN

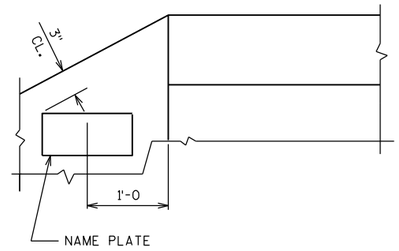
*EMBED #5 BARS 1'-0" INTO PRECAST CONCRETE END SECTION, BOTTOM SLAB.



SECTION A



SECTION B



NAME PLATE

NOTES

CONCRETE COVER ON ALL REINFORCEMENT IN THE PRECAST ELEMENTS SHALL BE 2" UNLESS SHOWN OR NOTED OTHERWISE.

STEEL REINFORCEMENT MAY BE EITHER GRADE 60 DEFORMED BARS (FY = 60,000 P.S.I.) OR WELDED DEFORMED - WIRE FABRIC OF EQUIVALENT AREA, (FY = 65,000 P.S.I.)

THE ULTIMATE COMPRESSIVE STRENGTH OF THE FIELD POURED CONCRETE SHALL BE 3,500 P.S.I.

ALTERNATE DETAILS OF EQUAL STRENGTH AND HYDRAULIC CAPACITY TO THE DETAILS SHOWN ON THIS SHEET MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

THE ULTIMATE COMPRESSIVE STRENGTH OF THE CONCRETE IN THE PRECAST ELEMENTS SHALL BE 4,000 P.S.I.

THE PRECAST ELEMENTS SHALL BE PROVIDED WITH SUITABLE LIFTING DEVICES FOR HANDLING AND PLACEMENT OF THE ELEMENTS.

VERTICAL CONSTRUCTION JOINTS THRU THE WALLS AND FOOTING WILL BE ALLOWED ONLY WITH THE APPROVAL OF THE ENGINEER. DETAILS MUST BE SHOWN ON THE SHOP DRAWINGS FOR APPROVAL.

THE AREA OF REINFORCING STEEL NOT IDENTIFIED IN SECTIONS SHALL CONFORM TO THE FOLLOWING TEMPERATURE AND SHRINKAGE REQUIREMENTS:

THICKNESS	T&S REINF.
≤ 12"	#4 @ 18"
> 12" – 18"	#4 @ 12"

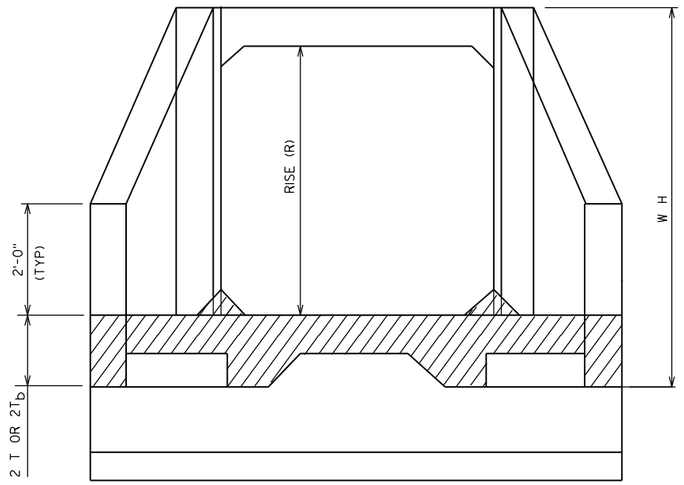
THE MAXIMUM BAR SIZE OF GRADE 60 DEFORMED BARS SHALL BE #5.

ALL EXPOSED CORNERS SHALL BE BEVELED ¾" ON THE SIDES OR TOOL EDGED WITH A ½" MINIMUM RADIUS EDGER.

PRECAST CUT OFF WALLS MAY BE FIELD SPLICED BY EXTENDING THE REINFORCING STEEL FROM BOTH SEGMENTS TO BE SPLICED 1'-6" INTO THE SPLICE ZONE, LAPPING THE STEEL ± 1'-6" AND FIELD POURING A SECTION OF CUT OFF WALL 1'-6" LONG.

PRECAST ELEMENTS MAY BE POURED IN PLACE AT THE OPTION OF THE CONTRACTOR.

APRON SHALL BE POURED AND CURED PRIOR TO BACKFILLING WINGWALLS.



END VIEW

BILL OF BARS

BAR NO.	COATED BAR	NO. REQ'D	LENGTH	BENT BAR	BUNDLED	⚠ BAR SERIES	0 # COATED 178 # UNCOATED — LOCATION
A402		9	8'-8"				APRON TOP MAT - TRANSVERSE
A403		8	9'-9"				APRON TOP MAT - TRANSVERSE DIAGONAL
A404		9	12'-3"			X	APRON TOP MAT - TRANSVERSE CUT BAR

THE FIRST DIGIT OR FIRST TWO DIGITS OF A BAR MARK INDICATES THE BAR SIZE. ALL DIMENSIONS IN THE BAR BENDS ARE OUT TO OUT.

⚠ LENGTH SHOWN FOR BAR SERIES IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS.

BAR NO.	NUMBER REQUIRED	LENGTH
A404	1 SERIES OF 9	7'-8" TO 16'-9"

	S	R	T OR T_S	ANGLE A	WL	AL	AH	WH
OUTLET	8'-0"	8'-0"	0'-8"	27°10'	9'-9½"	18'-6"	5'-0"	10'-0"

RISE(R)	A_S9 IN.²/FT	WF
8'-0	.31	4'-0

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-32-103

DRAWN BY JAP | PLANS CK'D. WJZ

DOWNSTREAM APRON

SHEET 5 OF 7

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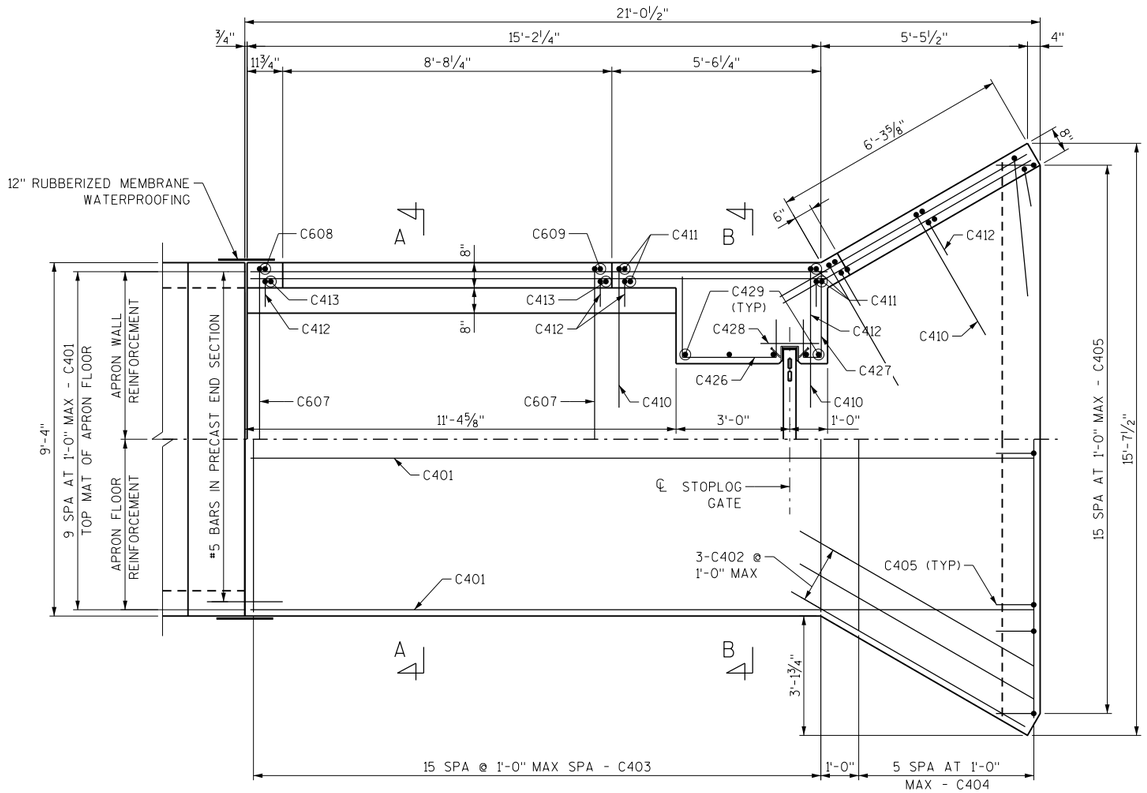
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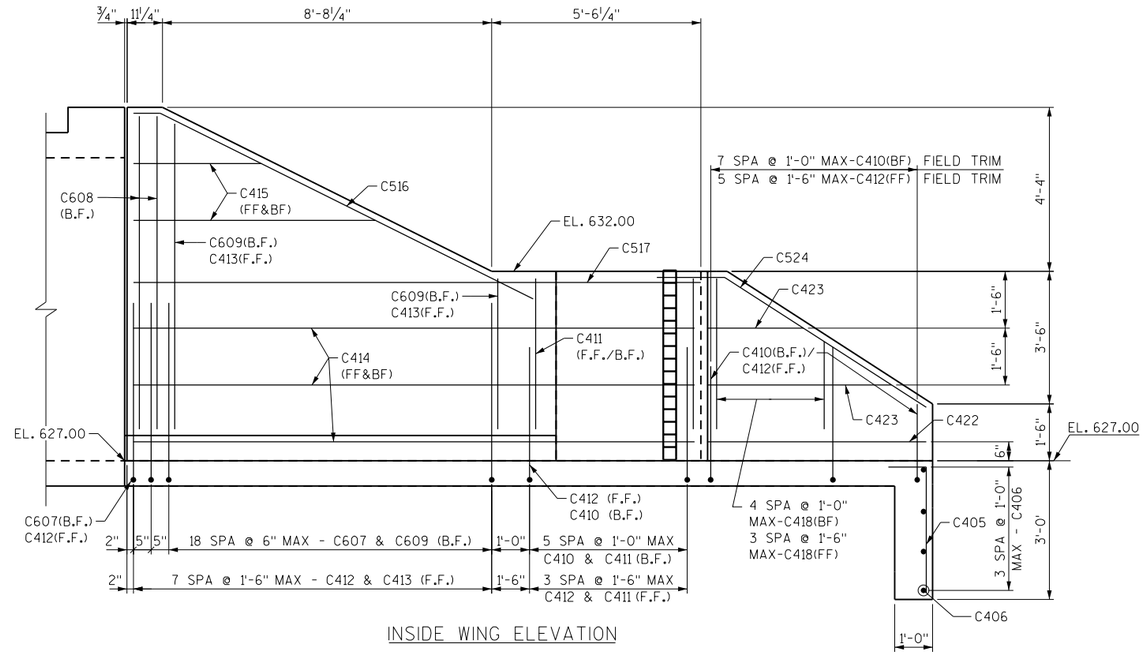
8

STATE PROJECT NUMBER

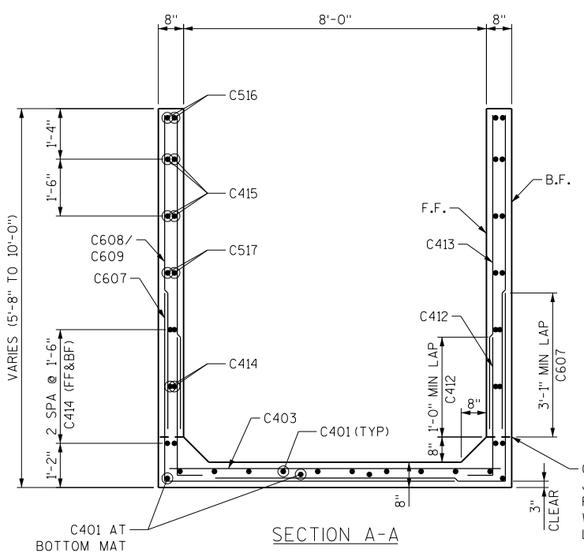
5085-00-70



PLAN

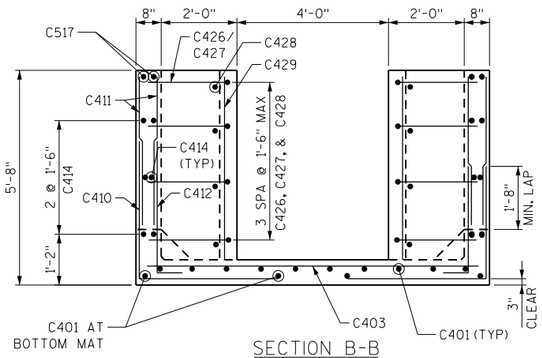


INSIDE WING ELEVATION



SECTION A-A

OPTIONAL CONSTRUCTION JOINT. PROVIDE 12" RUBBERIZED MEMBRANE WATERPROOFING IF JOINT IS USED.



SECTION B-B

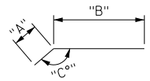
BAR NO.	NUMBER REQUIRED	LENGTH
C404	1 SERIES OF 6	10'-1" TO 14'-9"
C609	2 SERIES OF 19	4'-0" TO 8'-6"
C413	2 SERIES OF 8	4'-0" TO 8'-6"
C415	4 SERIES OF 2	3'-5" TO 6'-5"
C418	2 SERIES OF 5	2'-4" TO 4'-4"
	2 SERIES OF 4	
C423	4 SERIES OF 2	3'-11" TO 6'-4"

BILL OF BARS

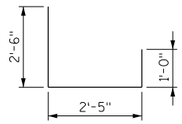
BAR NO.	COATED BAR	NO. REQ'D	LENGTH	BENT BAR	BUNDLED	▲ BAR SERIES	1995 # COATED 448 # UNCOATED LOCATION
C401		14	20'-8"				APRON TOP/BOT MAT - LONGITUDINAL
C402		6	7'-0"				APRON TOP MAT - FLARE BAR
C403		16	9'-0"				APRON TOP MAT - TRANSVERSE
C404		6	12'-5"			X	APRON TOP MAT - TRANSVERSE CUT BAR
C405		16	3'-9"	X			CUTOFF WALL - VERTICAL
C406		4	15'-2"				CUTOFF WALL - TRANSVERSE
C607	X	42	12'-4"	X			APRON WALL - B.F. VERTICAL DOWEL
C608	X	4	8'-4"				APRON WALL - B.F. VERTICAL
C609	X	38	6'-3"			X	APRON WALL - B.F. VERTICAL CUT BAR
C410	X	28	6'-7"	X			APRON WALL/WINGWALL - B.F. VERTICAL DOWEL
C411	X	20	4'-1"				APRON WALL - F.F./B.F. VERTICAL
C412	X	36	3'-11"	X			APRON WALL/WINGWALL - F.F. VERTICAL DOWEL
C413	X	16	6'-3"			X	APRON WALL - F.F.VERTICAL CUT BAR
C414	X	12	15'-0"				APRON WALL - F.F./B.F. HORIZONTAL
C415	X	8	4'-11"			X	APRON WALL - F.F./B.F. HORIZONTAL CUT BARS
C516	X	4	11'-8"	X			APRON WALL - TOP BAR
C517	X	4	15'-0"				APRON WALL - TOP BAR
C418	X	18	3'-4"			X	WINGWALL - F.F./B.F. VERTICAL CUT BARS
C422	X	4	7'-6"				WINGWALL - F.F./B.F. HORIZONTAL
C423	X	8	5'-2"			X	WINGWALL - F.F./B.F. HORIZONTAL CUT BAR
C524	X	4	8'-3"	X			WINGWALL - TOP BAR
C426	X	8	5'-9"	X			STOPLOG - LARGE STIRRUP
C427	X	8	3'-10"	X			STOPLOG - SMALL STIRRUP
C428	X	8	1'-8"				STOPLOG - TRANSVERSE STRAIGHT BAR
C429	X	10	4'-8"				STOPLOG - VERTICAL

THE FIRST DIGIT OR FIRST TWO DIGITS OF A BAR MARK INDICATES THE BAR SIZE. ALL DIMENSIONS IN THE BAR BENDS ARE OUT TO OUT.

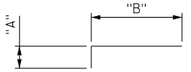
▲ LENGTH SHOWN FOR BAR SERIES IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS.



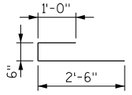
BAR NO.	DIM "A"	DIM "B"	DIM "C°"
C516	8"	11'-0"	139°
C524	2'-1"	6'-2"	147°



C426



BAR NO.	DIM "A"	DIM "B"
C405	1'-2"	3'-4"
C607	4'-3"	7'-8"
C410	3'-8"	3'-0"
C412	1'-0"	3'-0"



C427

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-32-103

DRAWN BY JAP | PLANS CK'D. WJZ

UPSTREAM APRON

SHEET 6 OF 7

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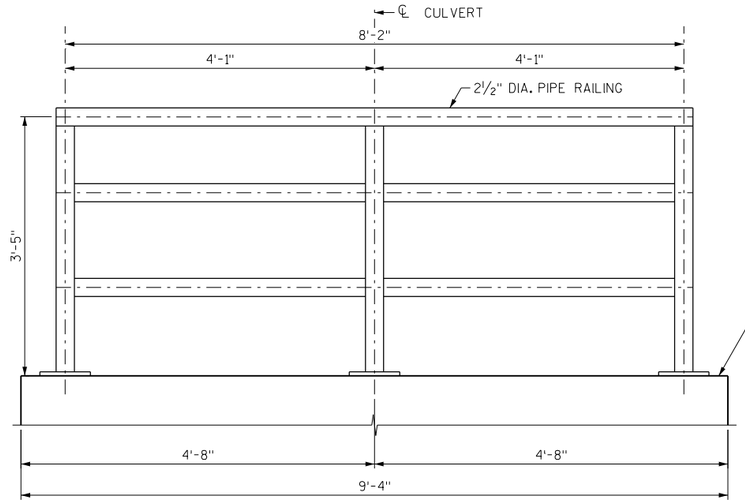
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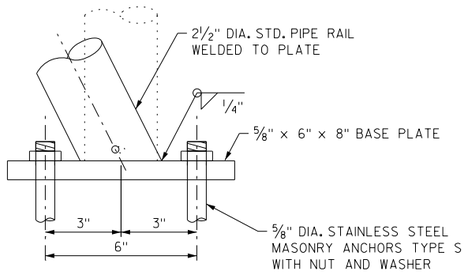
8

STATE PROJECT NUMBER

5085-00-70



ELEVATION
CULVERT HEADWALL
(1 REQUIRED)



RAIL POST BASE PLATE

NOTES

BID ITEM SHALL BE "RAILING PIPE C-32-103, WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN, CONCRETE MASONRY ANCHORS, AND GALVANIZING.

BASE PLATES SHALL CONFORM TO A.S.T.M. A709 GRADE 36. STANDARD PIPE SHALL CONFORM TO A.S.T.M. A500 GRADE B.

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

FILL BOLT SLOT OPENINGS IN SHIMS AND BASE PLATES, AND CAULK AROUND PERIMETER OF PLATE NO. 1A & 1B WITH NON-STAINING GREY NON-BITUMINOUS JOINT SEALER.

ALL JOINTS SHALL BE CONTINUOUSLY WELDED AND GROUND SMOOTH. COPE COMPONENTS AT PERPENDICULAR AND SKEW CONNECTIONS TO PROVIDE CLOSE FIT. OBTAIN FUSION WITHOUT UNDERCUT OR OVERLAP. REMOVE FLUX IMMEDIATELY.

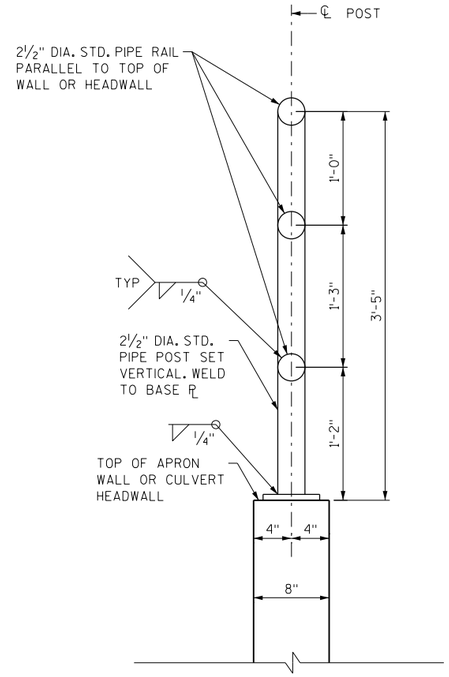
SUPPLY CONCRETE MASONRY ANCHORS, TYPE S (EPOXY), ⅝-INCH HAVING A MINIMUM PULLOUT CAPACITY OF 9.2 KIPS. EMBED A MINIMUM OF 7" INTO SOUND CONCRETE. ANCHORS SHALL BE STAINLESS STEEL.

VENT HOLES SHALL BE DRILLED IN MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

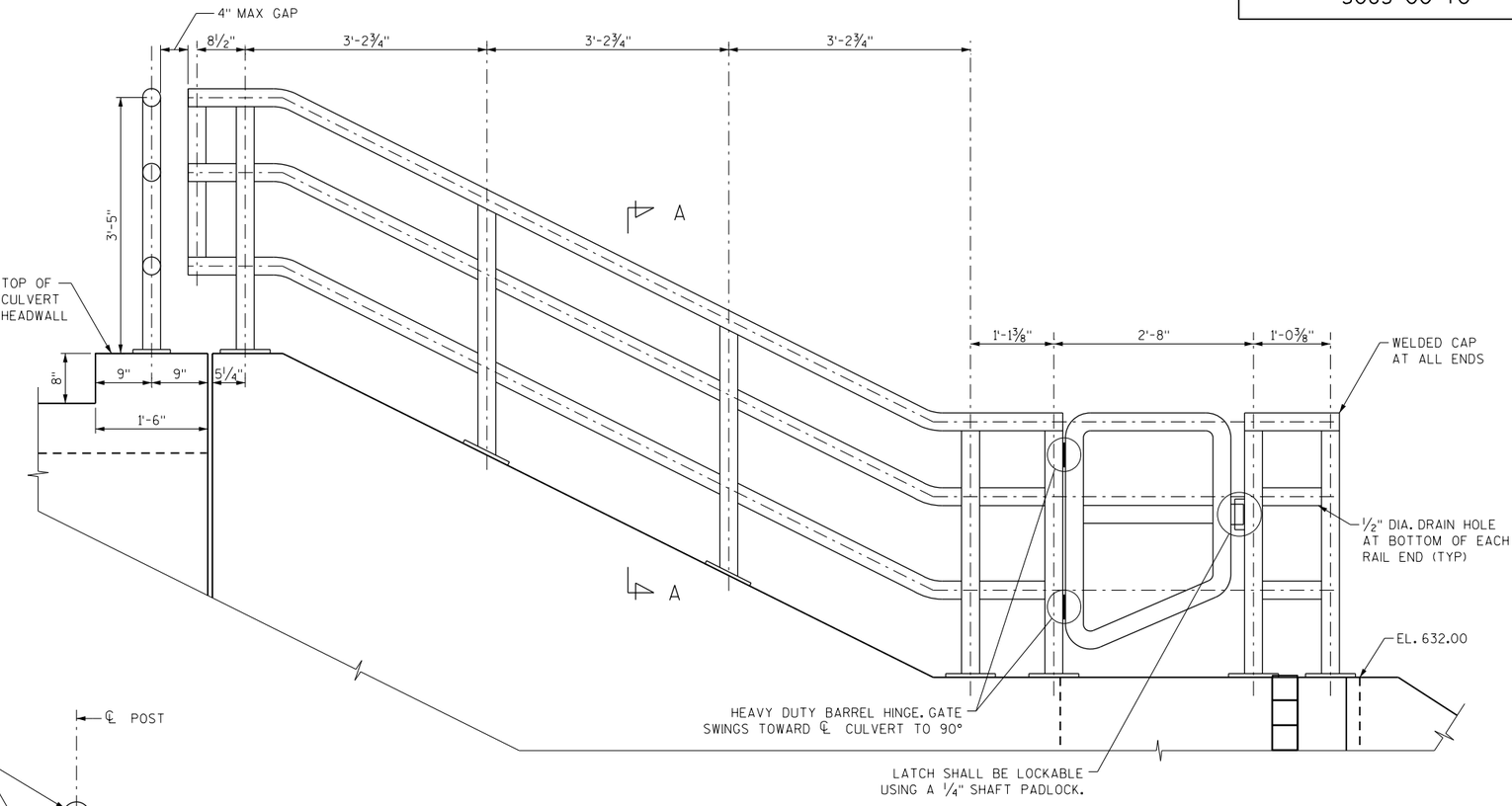
GALVANIZE AFTER FABRICATION PER ASTM A123.

SHIMS SHALL BE GALVANIZED.

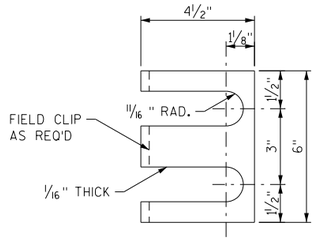
HANDRAIL AND POSTS TO BE SMOOTH AND FREE OF NICKS, BURRS, AND ABRASIONS AFTER GALVANIZING.



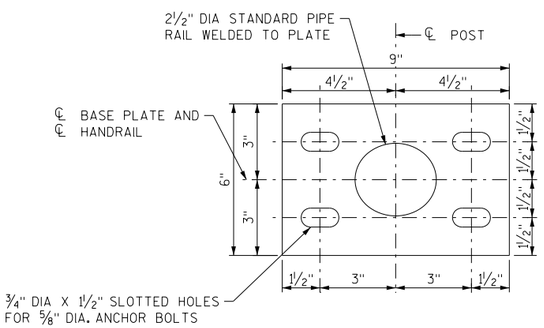
SECTION A-A



UPSTREAM APRON WINGWALL
(2 REQUIRED, 1 O.H.)



SHIM DETAIL
STEEL SHIMS SHALL BE PROVIDED AND USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT
(PROVIDE 4 SETS PER POST)



BASE PLATE DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-32-103

DRAWN BY JAP | PLANS CK'D. WJZ

RAILING DETAILS

SHEET 7 OF 7

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FILE= 55_RAILING.DGN
SCALE = 1:2

8

8

CTH GI

STATION	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Fill 1.30	Mass Ordinate (CY)
10+00.00	9.85	0.00	0	0	0	0	0
10+50.00	12.49	0.00	21	0	21	0	21
11+00.00	8.29	0.00	19	0	40	0	40
11+50.00	10.12	0.00	17	0	57	0	57
12+00.00	11.5	0.00	20	0	77	0	77
12+50.00	6.92	0.00	17	0	94	0	94
13+00.00	12.89	0.00	18	0	112	0	112
13+50.00	13	0.00	24	0	136	0	136
14+00.00	46.96	0.00	56	0	192	0	192
14+50.00	51.79	0.00	91	0	283	0	283
15+00.00	42.17	0.00	87	0	370	0	370
15+50.00	42.35	0.00	78	0	449	0	449
16+00.00	43.05	0.00	79	0	528	0	528
16+50.00	46.13	0.00	83	0	610	0	610
17+00.00	45.88	0.00	85	0	695	0	695
17+50.00	45.53	0.00	85	0	780	0	780
18+00.00	48.64	0.00	87	0	867	0	867
18+50.00	52.51	0.00	94	0	961	0	961
19+00.00	57.08	0.00	101	0	1062	0	1062
19+50.00	58.07	0.00	107	0	1169	0	1169
20+00.00	45.38	0.00	96	0	1265	0	1265
20+50.00	0	0.00	42	0	1307	0	1307
21+00.00	0	0.00	0	0	1307	0	1307
21+50.00	0	0.00	0	0	1307	0	1307
22+00.00	0	0.00	0	0	1307	0	1307
22+50.00	0	0.00	0	0	1307	0	1307
23+00.00	41.71	0.00	39	0	1345	0	1345
23+50.00	55.37	0.00	90	0	1435	0	1435
24+00.00	68.91	0.00	115	0	1550	0	1550
24+50.00	58.94	0.00	118	0	1669	0	1669
25+00.00	58.55	0.00	109	0	1778	0	1778
25+50.00	56.99	0.00	107	0	1885	0	1885
26+00.00	60.43	0.00	109	0	1993	0	1993
26+50.00	61.49	0.00	113	0	2106	0	2106
27+00.00	41.57	0.00	95	0	2202	0	2202
27+50.00	38.14	0.00	74	0	2275	0	2275
28+00.00	31.16	0.00	64	0	2340	0	2340
28+50.00	30.52	0.00	57	0	2397	0	2397
29+00.00	35.81	0.00	61	0	2458	0	2458
29+50.00	35.17	0.00	66	0	2524	0	2524
30+00.00	39.25	0.00	69	0	2593	0	2593
30+50.00	43.18	0.00	76	0	2669	0	2669
31+00.00	33.85	0.00	71	0	2740	0	2740
31+50.00	32.27	0.00	61	0	2802	0	2802
32+00.00	34.64	0.00	62	0	2864	0	2864
32+50.00	33.47	0.00	63	0	2927	0	2927
33+00.00	36.46	0.00	65	0	2991	0	2991
33+50.00	31.52	0.00	63	0	3054	0	3054
34+00.00	24.64	0.00	52	0	3106	0	3106
34+50.00	27.01	0.00	48	0	3154	0	3154
35+00.00	26.17	0.00	49	0	3203	0	3203
35+50.00	29.38	0.00	51	0	3255	0	3255
36+00.00	30.24	0.00	55	0	3310	0	3310
36+50.00	24.22	0.00	50	0	3360	0	3360
37+00.00	21.05	0.00	42	0	3402	0	3402
37+50.00	21.74	0.00	40	0	3442	0	3442
38+00.00	27.41	0.00	46	0	3487	0	3487
38+50.00	34.29	0.00	57	0	3545	0	3545
39+00.00	31.5	0.00	61	0	3606	0	3606
39+50.00	25.95	0.00	53	0	3659	0	3659
40+00.00	25.98	0.00	48	0	3707	0	3707
40+50.00	25.67	0.00	48	0	3755	0	3755
41+00.00	23.93	0.00	46	0	3801	0	3801
41+50.00	23.06	0.00	44	0	3844	0	3844
42+00.00	25.32	0.00	45	0	3889	0	3889
42+50.00	28.13	0.00	49	0	3938	0	3938
43+00.00	30.76	0.00	55	0	3993	0	3993
43+50.00	27.32	0.00	54	0	4047	0	4047
44+00.00	34.63	0.00	57	0	4104	0	4104
44+50.00	30.35	0.00	60	0	4164	0	4164
45+00.00	29.61	0.00	56	0	4220	0	4220
45+50.00	23.79	0.00	49	0	4269	0	4269
46+00.00	15.76	0.00	37	0	4306	0	4306
46+50.00	26.2	0.00	39	0	4345	0	4345
47+00.00	26.97	0.00	49	0	4394	0	4394
47+50.00	32.21	0.00	55	0	4449	0	4449
48+00.00	33.54	0.00	61	0	4510	0	4510
48+50.00	35.39	0.00	64	0	4573	0	4573
49+00.00	45.51	0.00	75	0	4648	0	4648
49+50.00	54.89	0.00	93	0	4741	0	4741
49+89.00	2.94	0.00	42	0	4783	0	4783
50+00.00	46.12	0.00	10	0	4793	0	4793
50+50.00	54.19	0.00	93	0	4886	0	4886
51+00.00	41.32	3.62	88	3	4974	4	4970
51+50.00	41.98	4.53	77	8	5051	14	5037
52+00.00	39.43	2.29	75	6	5127	22	5104
52+50.00	34.59	2.62	69	5	5195	28	5167
53+00.00	38.76	1.02	68	3	5263	33	5231
53+50.00	43.81	0.00	76	1	5340	34	5306
54+00.00	43.06	0.00	80	0	5420	34	5386
54+50.00	28.82	5.69	67	5	5487	41	5446
54+53.00	2.47	6.29	2	1	5488	42	5447
55+00.00	23.75	0.00	23	0	5511	42	5470

9

9

PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY:LA CROSSE	EARTHWORK	SHEET 147	E

STATION	AREA (SF) Cut	Fill	Incremental Vol (CY) Cut	Fill	Cumulative Vol (CY) Cut 1.00	Fill 1.30	Mass Ordinate (CY)
55+50.00	22.88	0.00	43	0	5554	42	5513
56+00.00	20	0.00	40	0	5594	42	5553
56+50.00	18.63	0.00	36	0	5630	42	5588
57+00.00	19.06	0.00	35	0	5665	42	5623
57+05.00	2.19	39.99	2	4	5667	46	5620
57+50.00	29.28	28.67	26	57	5693	121	5572
58+00.00	38.22	9.58	63	35	5755	167	5589
58+50.00	46.43	3.32	78	12	5834	182	5652
59+00.00	47.22	4.41	87	7	5921	192	5729
59+50.00	44.94	4.55	85	8	6006	202	5803
60+00.00	44.04	4.88	82	9	6088	214	5875
60+50.00	42.54	17.47	80	21	6168	241	5928
61+00.00	41.38	22.16	78	37	6246	288	5958
61+03.00	8.1	28.55	3	3	6249	292	5957
61+19.00	6.62	22.96	4	15	6253	312	5941
61+50.00	31.9	0.00	22	0	6275	312	5963
62+00.00	23.88	0.00	52	0	6327	312	6015
62+36.00	3.63	16.92	18	11	6345	327	6019
62+50.00	25.27	13.32	7	8	6353	337	6016
63+00.00	33	4.86	54	17	6407	359	6048
63+50.00	33.54	1.50	62	6	6468	366	6102
64+00.00	39.51	0.00	68	1	6536	368	6168
64+50.00	42.06	1.34	76	1	6612	370	6242
65+00.00	42.52	3.92	78	5	6690	376	6314
65+50.00	33.02	10.70	70	14	6760	394	6366
65+57.00	6.78	10.92	5	3	6765	397	6368
66+00.00	31.58	0.00	31	0	6796	397	6398
66+50.00	27.47	0.00	55	0	6850	397	6453
67+00.00	29.04	0.00	52	0	6903	397	6505
67+50.00	29.66	0.00	54	0	6957	397	6560
68+00.00	27.89	0.00	53	0	7010	397	6613
68+50.00	26.92	0.00	51	0	7061	397	6664
69+00.00	30.57	0.00	53	0	7114	397	6717
69+50.00	33.59	0.00	59	0	7174	397	6776
70+00.00	32.23	0.00	61	0	7235	397	6837
70+50.00	38.61	0.00	66	0	7300	397	6903
71+00.00	31.45	0.00	65	0	7365	397	6968
71+50.00	24.15	0.00	51	0	7416	397	7019
72+00.00	29.44	0.00	50	0	7466	397	7069
72+50.00	29.7	0.00	55	0	7521	397	7124
73+00.00	28.78	0.00	54	0	7575	397	7178
73+50.00	25.95	0.00	51	0	7626	397	7228
74+00.00	26.72	0.00	49	0	7674	397	7277
74+50.00	24.68	0.00	48	0	7722	397	7325
75+00.00	24.99	0.00	46	0	7768	397	7371
75+50.00	23.93	0.00	45	0	7813	397	7416
76+00.00	23.65	0.00	44	0	7857	397	7460

STATION	AREA (SF) Cut	Fill	Incremental Vol (CY) Cut	Fill	Cumulative Vol (CY) Cut 1.00	Fill 1.30	Mass Ordinate (CY)
76+50.00	26.28	0.00	46	0	7904	397	7506
77+00.00	31.92	0.00	54	0	7958	397	7560
77+50.00	29.83	0.00	57	0	8015	397	7617
78+00.00	31.64	0.00	57	0	8072	397	7674
78+50.00	36.23	0.00	63	0	8134	397	7737
79+00.00	40.62	0.00	71	0	8206	397	7808
79+50.00	38.09	0.00	73	0	8278	397	7881
80+00.00	30.25	0.00	63	0	8342	397	7944
80+50.00	41.8	0.00	67	0	8408	397	8011
81+00.00	41.22	0.00	77	0	8485	397	8088
81+50.00	31.4	0.00	67	0	8553	397	8155
82+00.00	35.49	0.00	62	0	8615	397	8217
82+50.00	31.65	0.00	62	0	8677	397	8279
83+00.00	31.82	0.00	59	0	8735	397	8338
83+50.00	27.6	0.00	55	0	8790	397	8393
84+00.00	25.26	0.00	49	0	8839	397	8442
84+50.00	28.23	0.00	50	0	8889	397	8492
85+00.00	32.97	0.00	57	0	8946	397	8548
85+50.00	33.58	0.00	62	0	9007	397	8610
86+00.00	29.25	0.00	58	0	9065	397	8668
86+50.00	24.97	0.00	50	0	9116	397	8718
87+00.00	23.13	0.00	45	0	9160	397	8763
87+50.00	26.81	0.00	46	0	9206	397	8809
88+00.00	29.82	0.00	52	0	9259	397	8862
88+50.00	30.58	0.00	56	0	9315	397	8917
89+00.00	31.9	0.00	58	0	9373	397	8975
89+50.00	38.17	0.00	65	0	9437	397	9040
90+00.00	46.87	0.00	79	0	9516	397	9119
90+50.00	41.02	0.00	81	0	9598	397	9200
91+00.00	36.36	0.00	72	0	9669	397	9272
91+50.00	21.24	0.00	53	0	9723	397	9325
92+00.00	18.08	0.00	36	0	9759	397	9362
92+50.00	16.77	0.00	32	0	9791	397	9394
93+00.00	18.97	0.00	33	0	9824	397	9427
93+50.00	20.52	0.00	37	0	9861	397	9464
94+00.00	20.23	0.00	38	0	9899	397	9501
94+50.00	21.2	0.00	38	0	9937	397	9540
95+00.00	20.92	0.00	39	0	9976	397	9579
95+50.00	23.55	0.00	41	0	10017	397	9620
96+00.00	22.9	9.26	43	9	10060	408	9652
96+04.00	5.8	46.81	2	4	10062	414	9649
96+50.00	41.33	13.23	40	51	10102	480	9622
97+00.00	50.47	7.17	85	19	10187	505	9683
97+50.00	64.68	3.37	107	10	10294	518	9777
98+00.00	63.92	4.84	119	8	10413	527	9886
98+50.00	59.93	4.12	115	8	10528	538	9990
99+00.00	65.44	6.84	116	10	10644	551	10092

STATION	AREA (SF) Cut	Fill	Incremental Vol (CY) Cut	Fill	Cumulative Vol (CY) Cut 1.00	Fill 1.30	Mass Ordinate (CY)
99+50.00	65.81	6.61	122	12	10765	568	10198
100+00.00	56.02	10.06	113	15	10878	588	10291
100+50.00	45.53	11.93	94	20	10972	614	10358
101+00.00	62.97	3.47	100	14	11073	633	10440
101+50.00	82.9	0.00	135	3	11208	637	10571

HUNTER'S POINT RD

STATION	AREA (SF) Cut	Fill	Incremental Vol (CY) Cut	Fill	Cumulative Vol (CY) Cut 1.00	Fill 1.30	Mass Ordinate (CY)
101+55.00	24.04	2.12	0	0	0	0	0
102+00.00	32.08	0	47	2	47	2	44
102+50.00	24.64	0	53	0	99	2	97
103+00.00	22.91	0	44	0	143	2	141
103+50.00	22.47	0	42	0	185	2	183
104+00.00	21.72	0	41	0	226	2	224
104+50.00	19.09	0.02	38	0	264	2	262
105+00.00	18.44	2.12	35	2	299	5	294
105+50.00	23.48	0	39	2	338	7	330
106+00.00	25.85	0	46	0	383	7	376
106+50.00	22.4	0.35	45	0	428	8	420
107+00.00	22.31	2.98	41	3	469	12	457
107+50.00	20.03	0.43	39	3	509	16	493
108+00.00	22.24	0	39	0	548	17	531
108+50.00	27.66	0	46	0	594	17	577
109+00.00	34.48	0	58	0	651	17	635
109+50.00	32.94	0	62	0	714	17	697
110+00.00	31.02	0	59	0	773	17	757
110+50.00	22.09	0	49	0	822	17	806
111+00.00	19.25	0.42	38	0	861	17	844
111+50.00	18.29	7.62	35	7	895	27	869
112+00.00	17.74	8.78	33	15	929	46	882
112+50.00	22.24	7.35	37	15	966	66	900
113+00.00	20.6	12.9	40	19	1005	90	915
113+50.00	19.4	13.65	37	25	1042	122	920
114+00.00	25.95	0	42	13	1084	139	946
114+50.00	30.66	0	52	0	1137	139	998
115+00.00	29.89	0	56	0	1193	139	1054
115+50.00	29.1	0	55	0	1247	139	1109
116+00.00	30.51	0	55	0	1303	139	1164

STATION	AREA (SF) Cut	Fill	Incremental Vol (CY) Cut	Fill	Cumulative Vol (CY) Cut 1.00	Fill 1.30	Mass Ordinate (CY)
116+50.00	37.04	0	63	0	1365	139	1227
117+00.00	24.07	0	57	0	1422	139	1283
117+50.00	24.33	0	45	0	1467	139	1328
118+00.00	23.93	0	45	0	1511	139	1373
118+50.00	21.1	0.85	42	1	1553	140	1413
119+00.00	22.06	0.36	40	1	1593	141	1452
119+50.00	20.08	1.21	39	1	1632	143	1489
120+00.00	21.6	0.51	39	2	1671	145	1526
120+50.00	20.48	0	39	0	1710	146	1564
121+00.00	26.52	0	44	0	1753	146	1607
121+50.00	30.84	0	53	0	1806	146	1660
122+00.00	34.12	0	60	0	1866	146	1721
122+50.00	34.89	0	64	0	1930	146	1785
123+00.00	32.31	0	62	0	1992	146	1847
123+50.00	28.56	0	56	0	2049	146	1903
124+00.00	31.06	0	55	0	2104	146	1958
124+50.00	32.2	0	59	0	2163	146	2017
125+00.00	31.46	0	59	0	2222	146	2076
125+50.00	41.46	0	68	0	2289	146	2143
126+00.00	27.56	0	64	0	2353	146	2207
126+50.00	25.32	0	49	0	2402	146	2256
127+00.00	28.04	0	49	0	2451	146	2306
127+50.00	28.33	0	52	0	2503	146	2358
128+00.00	27.45	0	52	0	2555	146	2409
128+50.00	30.24	0	53	0	2609	146	2463
129+00.00	29.61	0	55	0	2664	146	2518
129+50.00	26.09	0	52	0	2716	146	2570
130+00.00	22.45	0	45	0	2760	146	2615
130+50.00	25.25	0	44	0	2805	146	2659
131+00.00	33.28	0	54	0	2859	146	2713
131+50.00	28.81	0	57	0	2916	146	2771
132+00.00	25.83	0	51	0	2967	146	2821
132+50.00	28.41	0.05	50	0	3017	146	2871
133+00.00	28.82	0.45	53	0	3070	146	2924
133+50.00	34.75	0.84	59	1	3129	148	2981
134+00.00	34.36	0.47	64	1	3193	149	3044
134+50.00	32.36	0.52	62	1	3255	151	3104
135+00.00	28.27	1.12	56	2	3311	153	3158
135+50.00	34.87	0	58	1	3369	154	3215
136+00.00	33.38	0	63	0	3433	154	3279
136+50.00	27.2	0	56	0	3489	154	3335
137+00.00	23.49	0	47	0	3536	154	3382
137+50.00	22.32	0	42	0	3578	154	3424
138+00.00	27.98	0	47	0	3625	154	3471
138+50.00	31.1	0	55	0	3679	154	3525
139+00.00	27.16	0	54	0	3733	154	3579
139+50.00	35.46	0	58	0	3791	154	3637

STATION	AREA (SF) Cut	Fill	Incremental Vol (CY) Cut	Fill	Cumulative Vol (CY) Cut 1.00	Fill 1.30	Mass Ordinate (CY)
140+00.00	24.68	0	56	0	3847	154	3693
140+50.00	23.55	0	45	0	3892	154	3738
141+00.00	27.19	0	47	0	3939	154	3785
141+50.00	45.4	0.07	67	0	4006	154	3852
142+00.00	35.01	1.48	74	1	4080	156	3924
142+50.00	37.99	0.86	68	2	4148	159	3989
143+00.00	38.77	0.82	71	2	4219	161	4058
143+50.00	42.08	0	75	1	4294	162	4132
144+00.00	48.76	1.3	84	1	4378	163	4215
144+50.00	51.02	0.46	92	2	4470	165	4305
145+00.00	59.86	0	103	0	4573	166	4407
145+50.00	60.08	0	111	0	4684	166	4518
146+00.00	43.93	0	96	0	4780	166	4614
146+50.00	29.19	0	68	0	4848	166	4682
147+00.00	21.56	0	47	0	4895	166	4729
147+50.00	14.98	0.03	34	0	4929	166	4763
148+00.00	8.86	1.58	22	1	4951	168	4783
148+50.00	0.47	8.86	9	10	4960	181	4779
149+00.00	2.32	4.66	3	13	4962	197	4765
149+50.00	2.11	7.33	4	11	4966	211	4755
150+00.00	4.85	3.14	6	10	4973	224	4749
150+50.00	3.73	5.87	8	8	4981	235	4746
151+00.00	8.1	4.63	11	10	4992	247	4744
151+50.00	12.41	2.81	19	7	5011	256	4754
152+00.00	17.6	0.23	28	3	5038	260	4778
152+50.00	22.16	0.15	37	0	5075	260	4815
153+00.00	32.38	0	51	0	5126	261	4865
153+50.00	43.71	0	70	0	5196	261	4936
154+00.00	50.21	0	87	0	5283	261	5022
154+50.00	50.18	0	93	0	5376	261	5115
155+00.00	48.06	0	91	0	5467	261	5206
155+50.00	46.23	0	87	0	5554	261	5294
156+00.00	45.98	0	85	0	5640	261	5379
156+50.00	45.56	0	85	0	5724	261	5464
157+00.00	49.96	0	88	0	5813	261	5552
157+50.00	50.35	0	93	0	5906	261	5645
158+00.00	55.22	0	98	0	6003	261	5743
158+50.00	59.39	0	106	0	6110	261	5849
159+00.00	57.98	0	109	0	6218	261	5958
159+50.00	67.2	0	116	0	6334	261	6074
160+00.00	62.5	0	120	0	6454	261	6194
160+50.00	64.04	0	117	0	6571	261	6311
161+00.00	65.97	0	120	0	6692	261	6431
161+50.00	67.16	0	123	0	6815	261	6555
162+00.00	68.22	0	125	0	6940	261	6680
162+50.00	71.73	0	130	0	7070	261	6809
163+00.00	76.45	0	137	0	7207	261	6947
163+50.00	68.97	0	135	0	7342	261	7081
164+00.00	57.74	0	117	0	7459	261	7199
164+50.00	61.04	0	110	0	7569	261	7309
165+00.00	65.53	0	117	0	7686	261	7426
165+50.00	69.94	0	125	0	7812	261	7551
166+00.00	69.4	0	129	0	7941	261	7680
166+50.00	65.06	0	125	0	8065	261	7805
167+00.00	60.65	0	116	0	8182	261	7921
167+50.00	56.03	0	108	0	8290	261	8029
168+00.00	55.83	0	104	0	8393	261	8133
168+50.00	57.75	0	105	0	8499	261	8238
169+00.00	59.57	0	109	0	8607	261	8347
169+50.00	55.67	0	107	0	8714	261	8453
170+00.00	52.57	0.02	100	0	8814	261	8553
170+50.00	46.43	0.05	92	0	8906	261	8645
171+00.00	41.21	0.29	81	0	8987	261	8726
171+50.00	57.31	0	91	0	9078	261	8817
172+00.00	74.53	0	122	0	9200	261	8939
172+50.00	55.44	0	120	0	9321	261	9059
173+00.00	49.05	0	97	0	9417	261	9156
173+50.00	48.39	0	90	0	9507	261	9246
174+00.00	47.51	0	89	0	9596	261	9335
174+50.00	25.36	0.99	67	1	9664	263	9401
175+00.00	14.54	2.09	37	3	9701	266	9434
175+50.00	10.6	3.15	23	5	9724	273	9451
176+00.00	14.54	2.97	23	6	9747	280	9467
176+50.00	37.68	2.64	48	5	9796	287	9509
177+00.00	49.74	3.6	81	6	9877	294	9582
177+50.00	50.74	8.87	93	12	9970	309	9660
178+00.00	86.32	3.66	127	12	10097	324	9772
178+50.00	111.09	2.95	183	6	10279	332	9947
179+00.00	116.97	0.45	211	3	10490	336	10154
179+49.98	0	0	108	0	10599	337	10262

SHELTER 5 RD

STATION	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Fill 1.30	Mass Ordinate (CY)
500+00.00	49.6531	0	0	0	0	0	0
500+50.00	72.96	0	114	0	114	0	114
501+00.00	138.99	0	196	0	310	0	310
501+50.00	80.57	1.07	203	1	513	1	512
502+00.00	14.54	13	88	13	601	18	583
502+50.00	7.89	0.01	21	12	622	34	588
503+00.00	43.07	0	47	0	669	34	635
503+50.00	59.63	0	95	0	764	34	730
504+00.00	37.57	2.31	90	2	854	37	818
504+50.00	22.46	1.05	56	3	910	41	869
505+00.00	19.71	0.03	39	1	949	42	907
505+50.00	64.4	0	78	0	1027	42	985
506+00.00	124.77	0	175	0	1202	42	1160
506+50.00	89.05	0	198	0	1400	42	1358
507+00.00	29.51	6	110	6	1510	49	1460
507+50.00	24.5	6.09	50	11	1560	64	1496
508+00.00	39.65	0	59	6	1619	71	1548
508+50.00	65.87	0	98	0	1717	71	1646
509+00.00	76.39	0	132	0	1848	71	1777
509+50.00	51.76	0.44	119	0	1967	72	1895
510+00.00	35.62	0	81	0	2048	72	1976
510+50.00	62.28	0	91	0	2139	72	2066
511+00.00	67.56	0	120	0	2259	72	2187
511+50.00	37.32	0.19	97	0	2356	72	2284
512+00.00	24.19	0.95	57	1	2413	74	2339
512+50.00	37.09	0	57	1	2470	75	2395
513+00.00	49.36	0	80	0	2550	75	2475
513+50.00	46.34	0	89	0	2638	75	2563
514+00.00	34.24	0.01	75	0	2713	75	2638
514+50.00	25.61	0	55	0	2768	75	2693
515+00.00	56.28	0	76	0	2844	75	2769
515+50.00	78.67	0	125	0	2969	75	2894
516+00.00	68.83	0	137	0	3106	75	3031
516+50.00	84.98	0	142	0	3248	75	3173
517+00.00	97.11	0	169	0	3417	75	3342
517+50.00	76.4	0	161	0	3577	75	3502
518+00.00	56.56	2.85	123	3	3701	78	3622
518+50.00	58.58	0	107	3	3807	82	3725
519+00.00	80.69	0	129	0	3936	82	3854
519+50.00	96.02	0	164	0	4100	82	4018
520+00.00	85.02	0	168	0	4267	82	4185
520+50.00	69.47	1.03	143	1	4410	83	4327
521+00.00	63.13	1.96	123	3	4533	87	4446
521+50.00	59.74	5.92	114	7	4647	96	4551
522+00.00	64.88	0.02	115	6	4762	103	4659
522+50.00	82.32	0	136	0	4899	103	4795
523+00.00	97.02	0	166	0	5065	103	4961
523+50.00	96.41	0	179	0	5244	103	5140
524+00.00	100.53	0	182	0	5426	103	5323
524+18.28	44.63	0	49	0	5475	103	5372

NORTH LANDING RD

STATION	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Fill 1.30	Mass Ordinate (CY)
216+00.00	24.82	0.00	0	0	0	0	0
216+50.00	6.99	2.26	29	2	29	3	27
217+00.00	0.00	26.76	6	27	36	38	-2
217+50.00	0.00	49.13	0	70	36	129	-93
218+00.00	0.00	65.25	0	106	36	267	-231
218+50.00	0.00	43.30	0	101	36	397	-361
219+00.00	0.00	12.89	0	52	36	465	-429
219+50.00	10.38	0.18	10	12	46	481	-435
220+00.00	33.45	0.00	41	0	86	481	-395
220+50.00	25.01	0.02	54	0	140	481	-341
221+00.00	13.73	5.61	36	5	176	488	-312
221+50.00	20.56	5.05	32	10	208	501	-293
222+00.00	48.40	0.00	64	5	272	507	-235
222+50.00	58.01	0.00	99	0	370	507	-136
223+00.00	10.51	6.18	63	6	434	514	-80
223+50.00	0.00	48.49	10	51	443	580	-136
224+00.00	0.00	51.86	0	93	443	701	-257
224+50.00	0.00	45.96	0	91	443	818	-375
225+00.00	0.00	33.93	0	74	443	915	-471
225+50.00	0.00	25.24	0	55	443	986	-542
226+00.00	0.00	12.74	0	35	443	1032	-588
226+50.00	13.15	1.55	12	13	456	1049	-593
227+00.00	38.24	0.00	48	1	503	1051	-547
227+50.00	49.88	0.00	82	0	585	1051	-466
228+00.00	34.62	0.00	78	0	663	1051	-388

WEST BOAT LANDING RD

STATION	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Fill 1.30	Mass Ordinate (CY)
300+00.00	0	0	0	0	0	0	0
300+50.00	61.39	0	57	0	57	0	57
301+00.00	62.47	0.02	115	0	172	0	172
301+50.00	60.29	0	114	0	285	0	285
302+00.00	50.43	0.03	103	0	388	0	388
302+50.00	48.32	4.5	91	4	479	6	474
303+00.00	57.85	0	98	4	577	11	567
303+50.00	52.3	1.11	102	1	679	12	667
304+00.00	60.97	0	105	1	784	14	771
304+50.00	61.14	0	113	0	897	14	884
305+00.00	72.93	0	124	0	1022	14	1008
305+50.00	76.87	0	139	0	1160	14	1147
306+00.00	66.59	0	133	0	1293	14	1279
306+50.00	64.59	0	121	0	1415	14	1401
307+00.00	78	0	132	0	1547	14	1533
307+50.00	53.44	0	122	0	1668	14	1655
308+00.00	78.12	0	122	0	1790	14	1776
308+50.00	83.71	0	150	0	1940	14	1926
309+00.00	75.65	0	148	0	2087	14	2074
309+50.00	78.74	0	143	0	2230	14	2217
309+55.49	8	0	9	0	2239	14	2226

CTH GI3

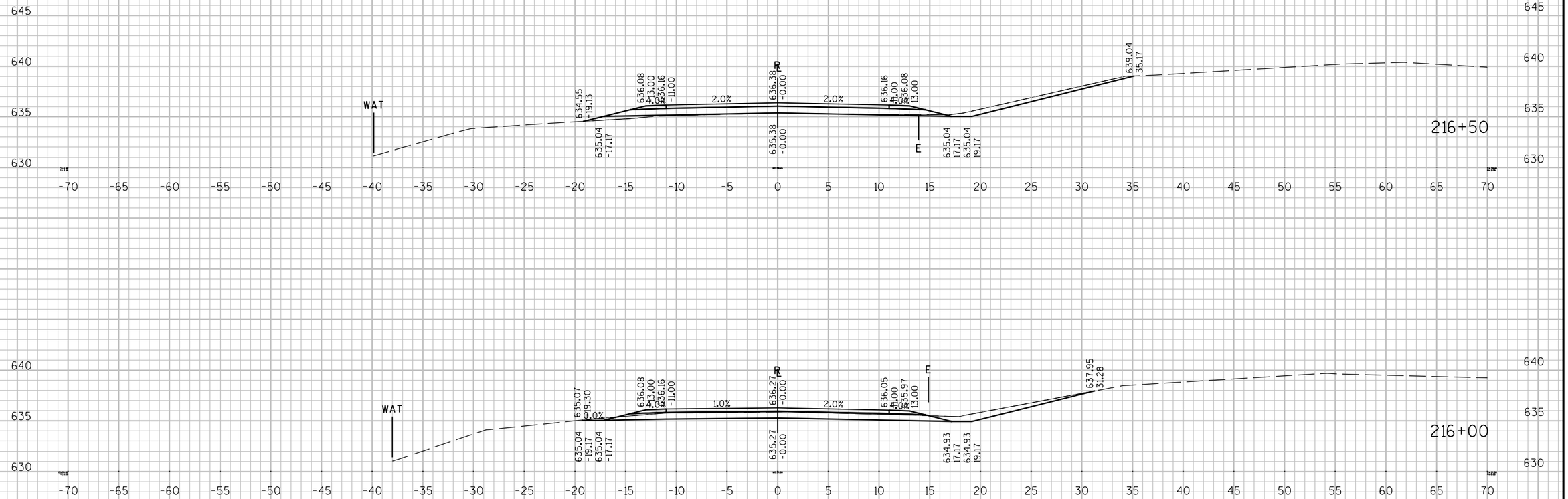
STATION	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Fill 1.30	Mass Ordinate (CY)
400+68.00	67.88	0	0	0	0	0	0
401+00.00	66.91	0	80	0	80	0	80
401+50.00	62.46	0	120	0	200	0	200
402+00.00	59.56	2.81	113	3	313	3	309
402+50.00	57.54	2.95	108	5	421	10	411
402+78.00	53.67	0.47	58	2	479	13	466

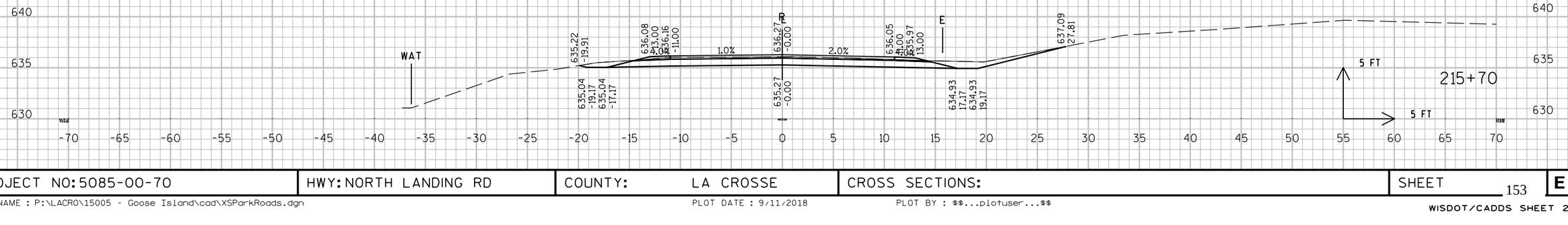
CTH GI3 RT

STATION	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Fill 1.30	Mass Ordinate (CY)
1+04.39	27.9	0	0	0	0	0	0
1+50.00	28.72	0	48	0	48	0	48
2+00.00	42.31	0	66	0	114	0	114
2+50.00	3.39	33.47	42	31	156	40	116
2+65.00	0.58	63.37	1	27	157	75	82

CTH GI LT

STATION	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) Cut	Incremental Vol (CY) Fill	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Fill 1.30	Mass Ordinate (CY)
0+96.00	22.76	0.38	0	0	0	0	0
1+00.00	22.96	0.13	3	0	3	0	3
1+50.00	56.77	0	74	0	77	0	77
2+00.00	89.38	0	135	0	213	0	212
2+50.00	67.94	0	146	0	358	0	358
3+00.00	12.96	0	75	0	433	0	433
3+31.00	1.71	3.4	8	2	442	3	439





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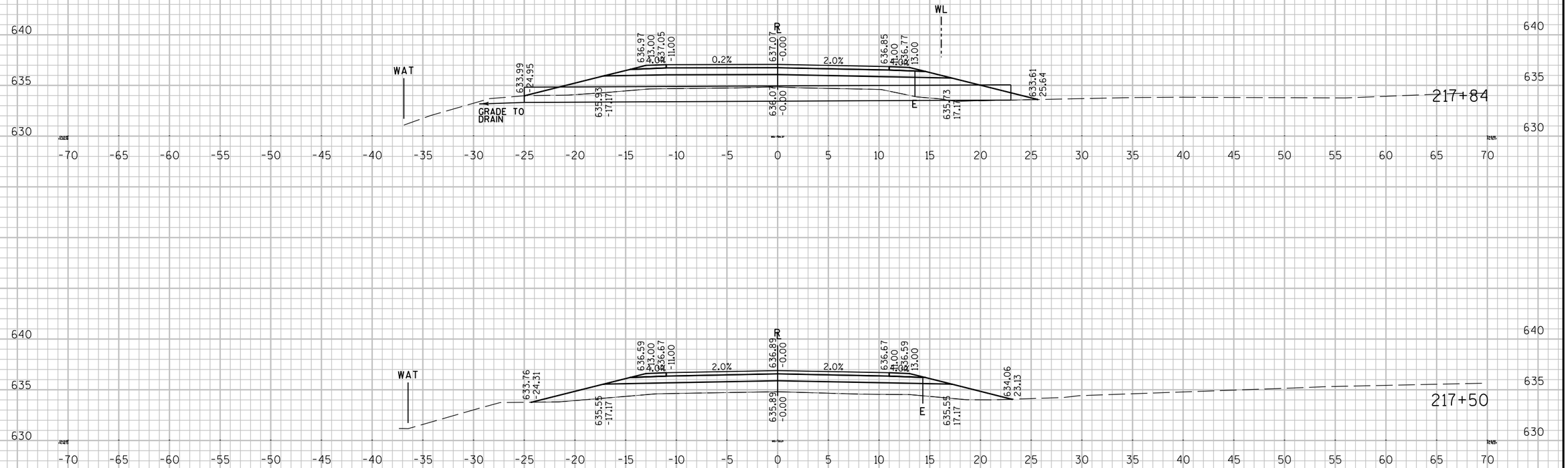
PROJECT NO: 5085-00-70	HWY: NORTH LANDING RD	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 153	E

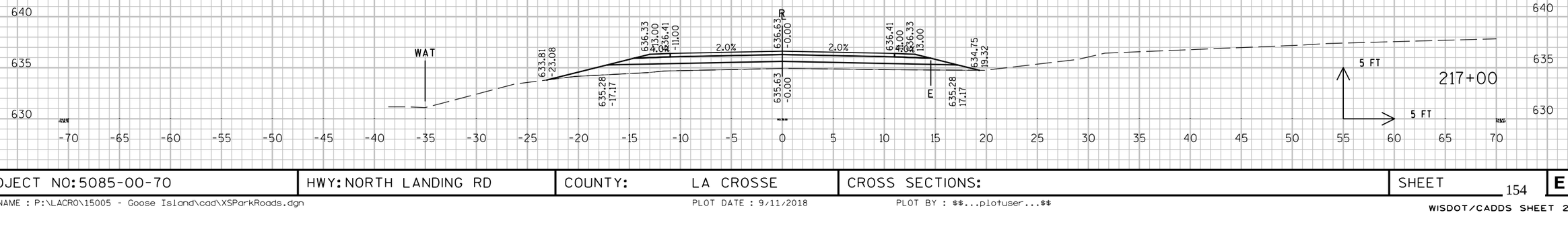
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PLOT DATE : 9/11/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21





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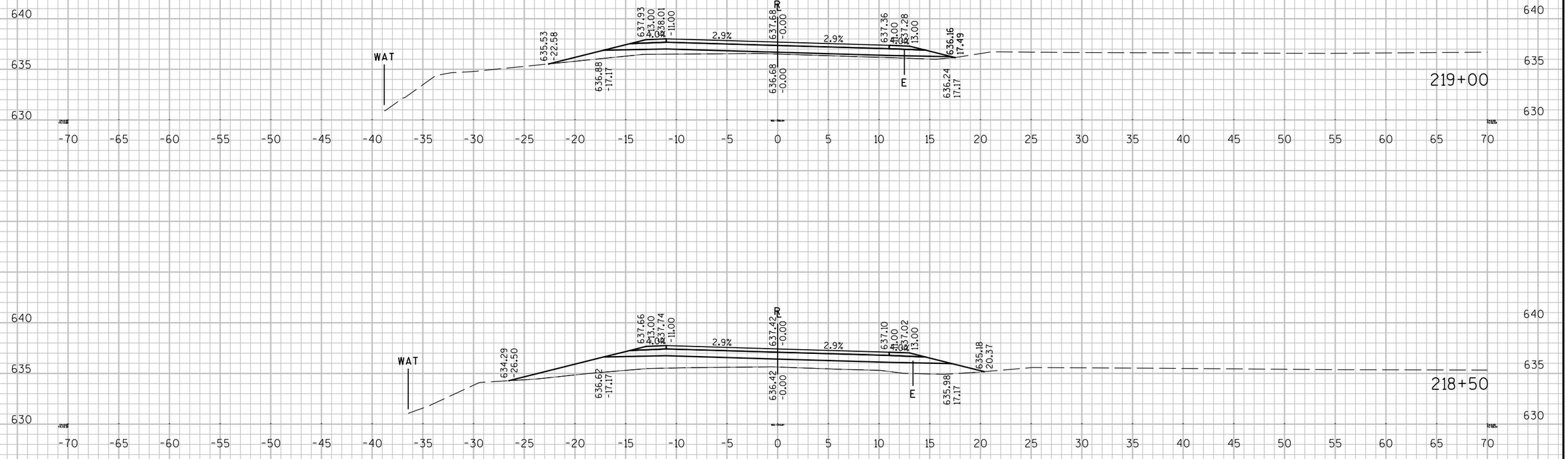
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PLOT DATE : 9/11/2018

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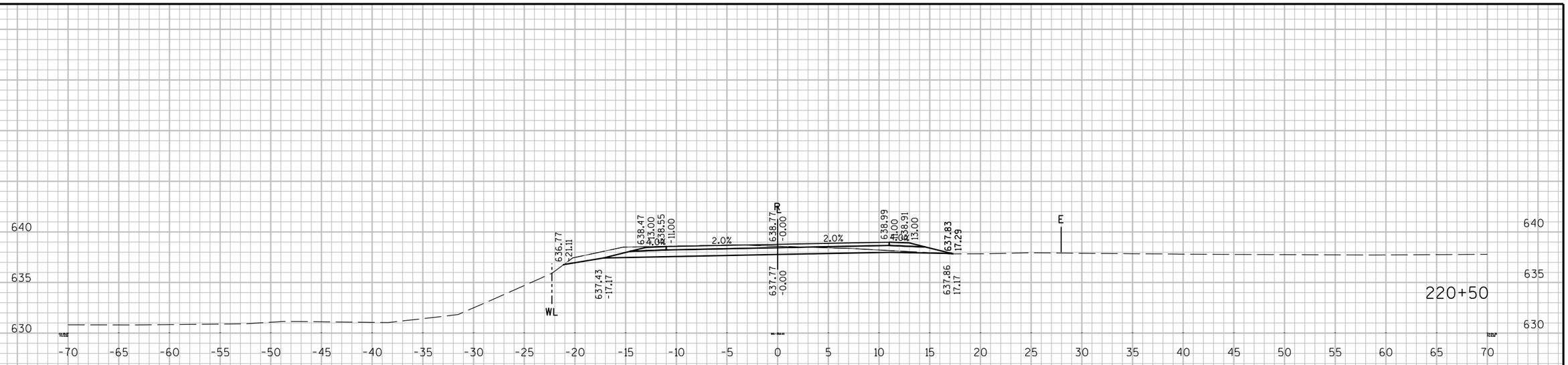
WISDOT/CADDS SHEET 21

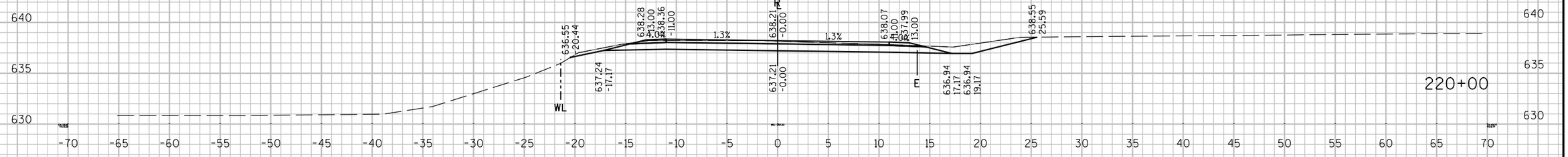


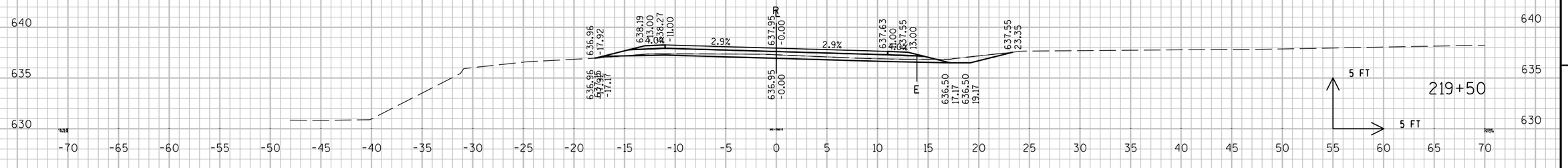
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PROJECT NO: 5085-00-70	HWY: NORTH LANDING RD	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 155	E







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PROJECT NO: 5085-00-70	HWY: NORTH LANDING RD	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 156	E

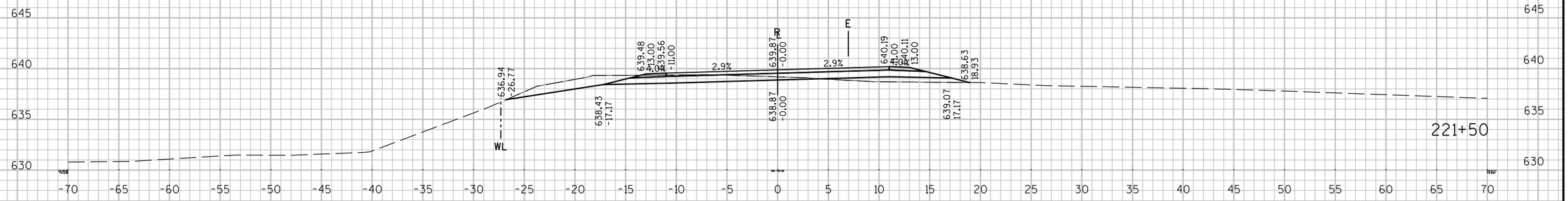
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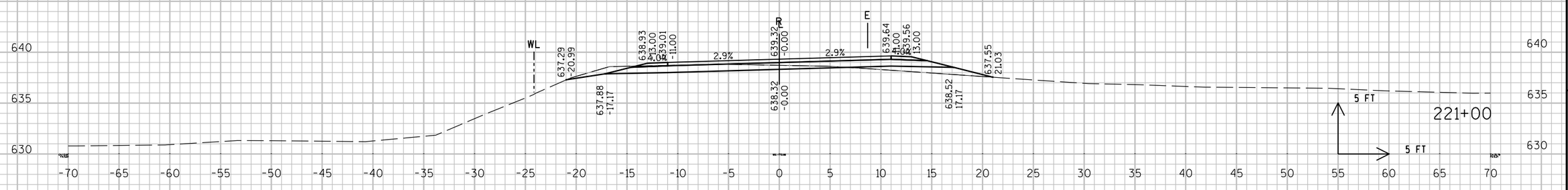
PLOT DATE : 9/11/2018

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WISDOT/CADDS SHEET 21







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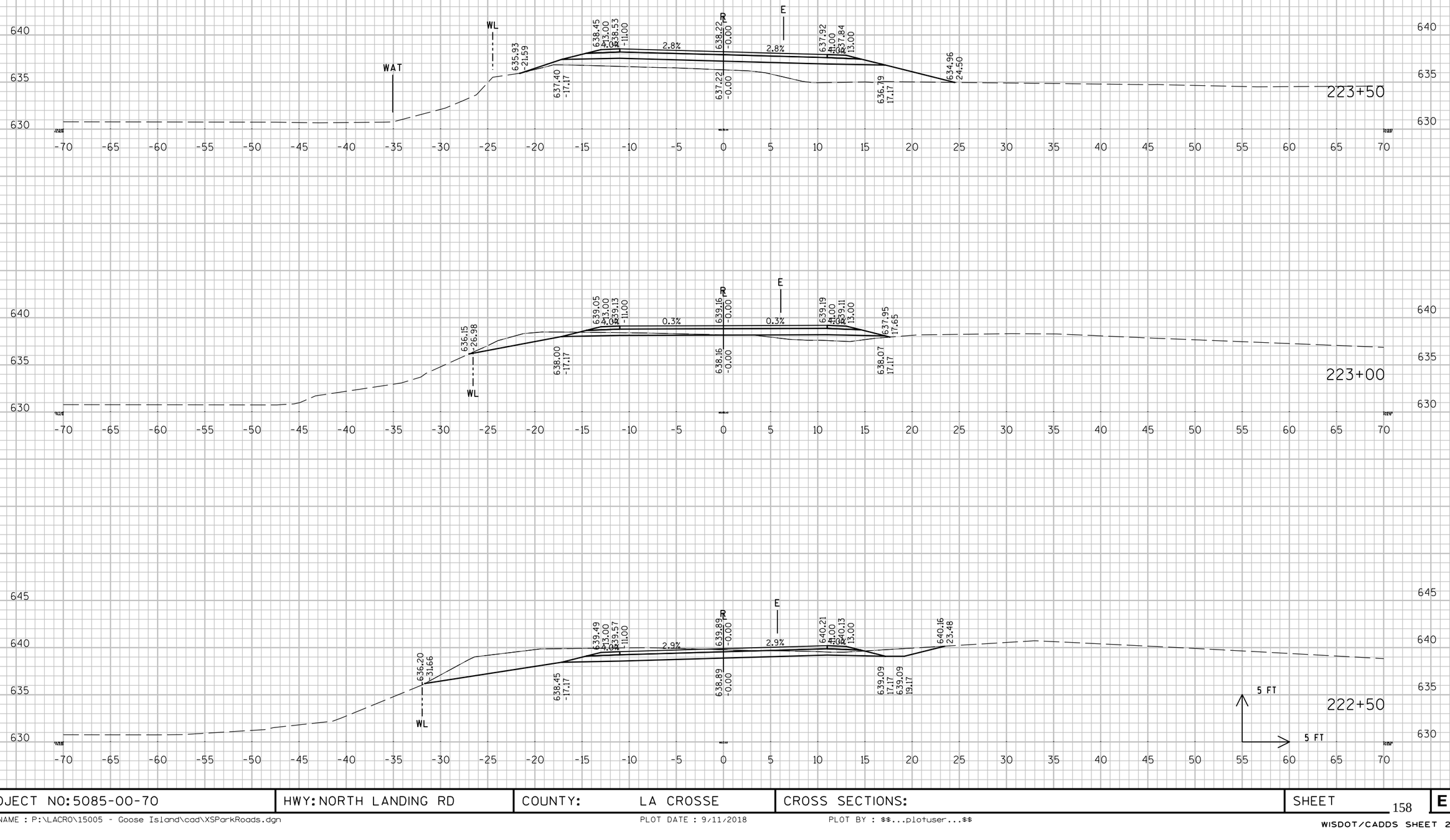
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PLOT DATE : 9/11/2018

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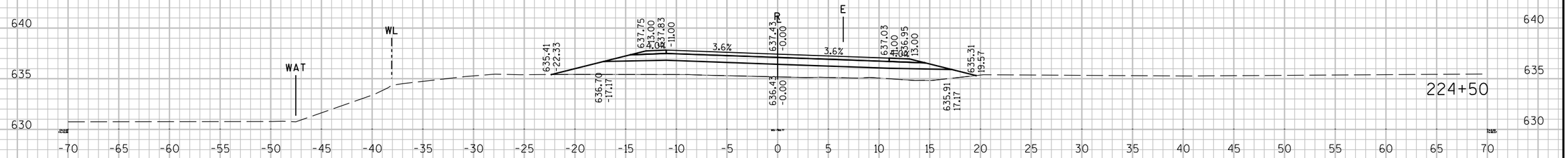
WISDOT/CADDS SHEET 21

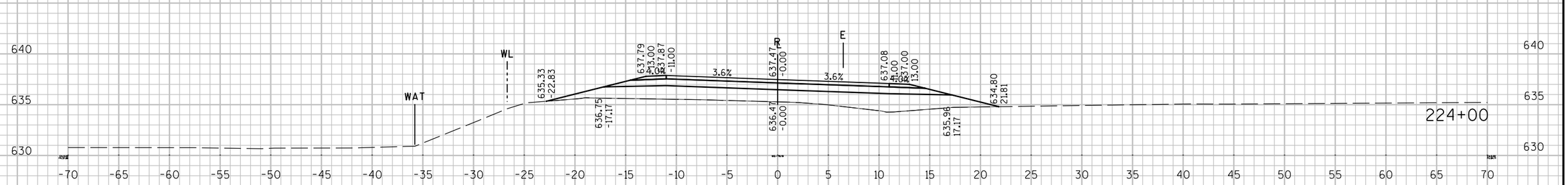


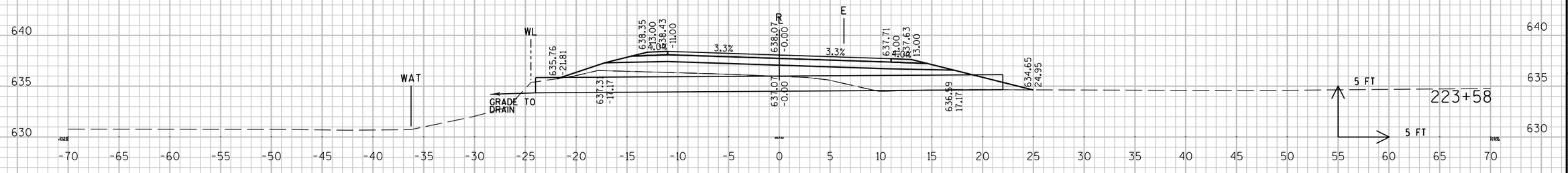
PROJECT NO: 5085-00-70	HWY: NORTH LANDING RD	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 158	E

FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 9/11/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



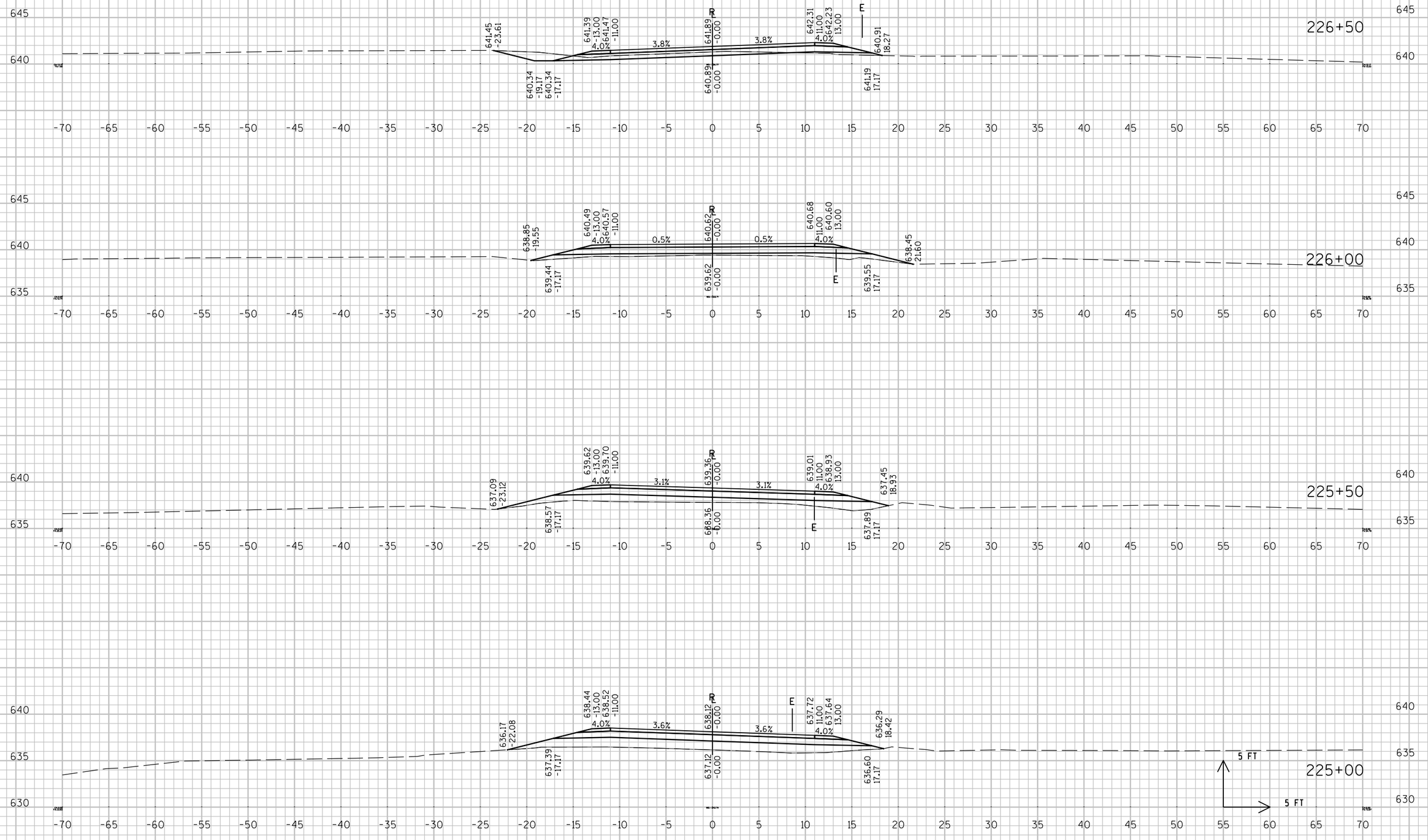




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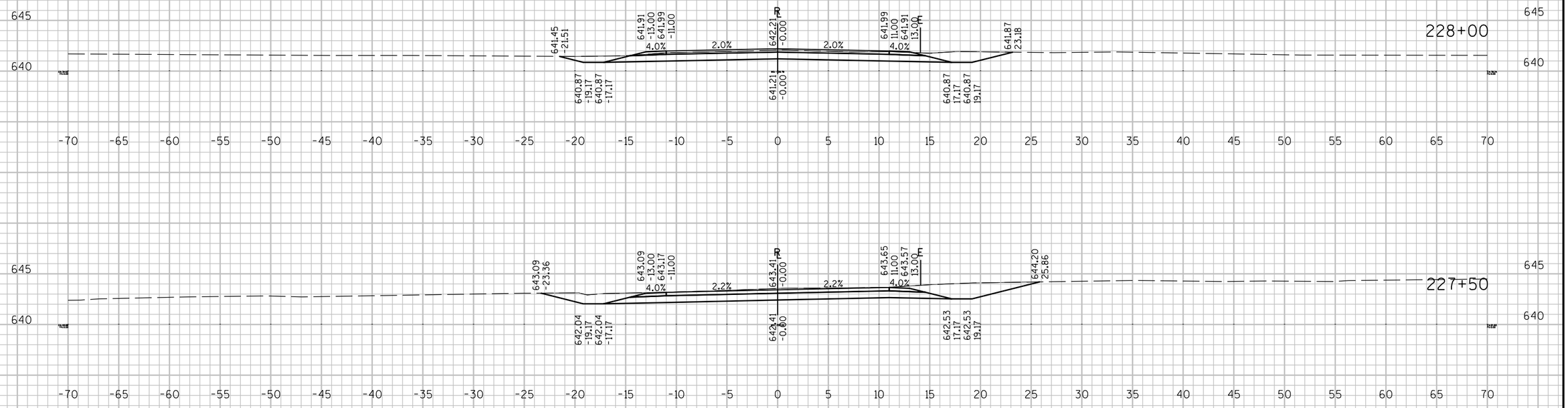
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PROJECT NO: 5085-00-70	HWY: NORTH LANDING RD	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 160	E

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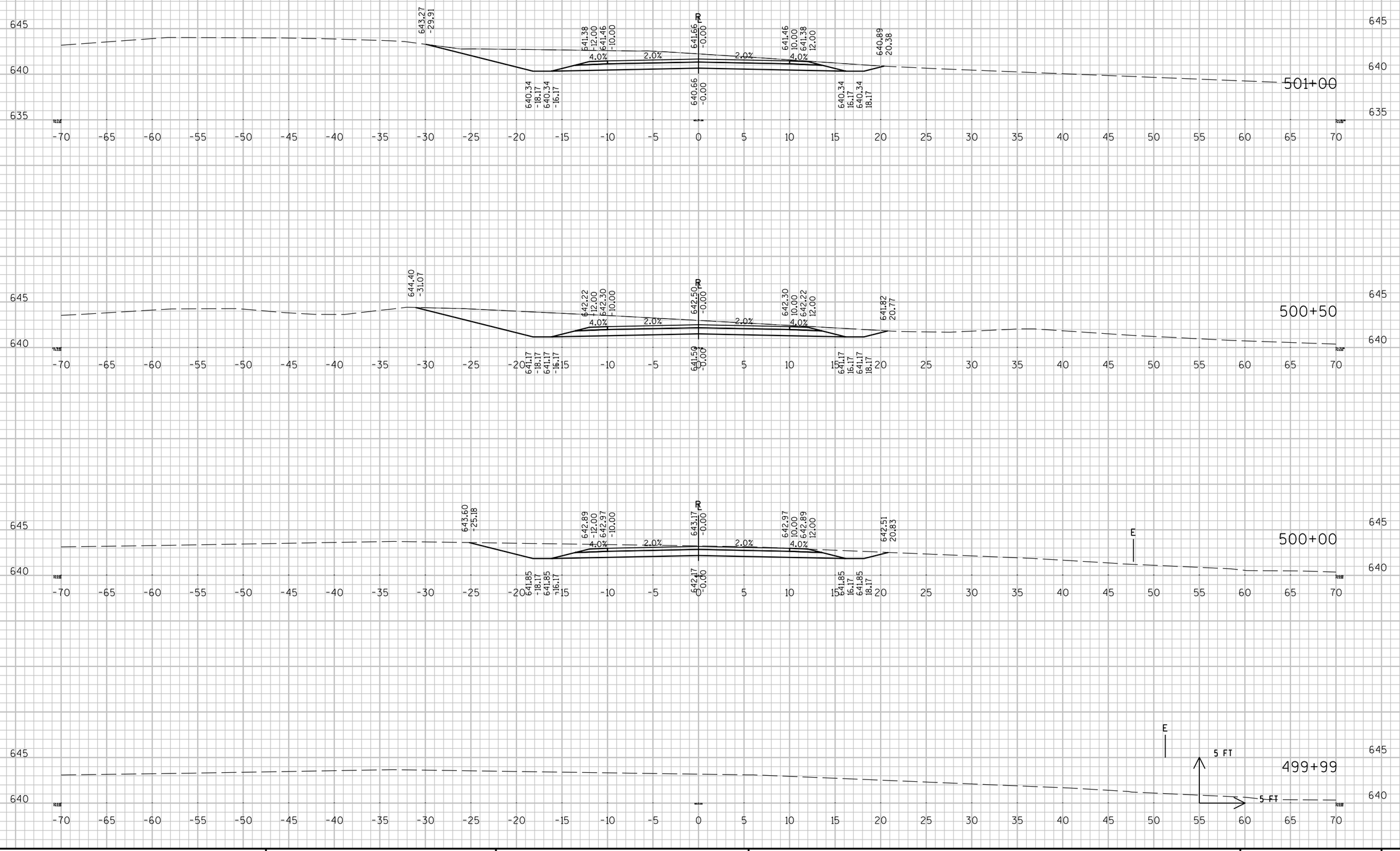
WISDOT/CADDS SHEET 21



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PROJECT NO: 5085-00-70	HWY: NORTH LANDING RD	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 161	E



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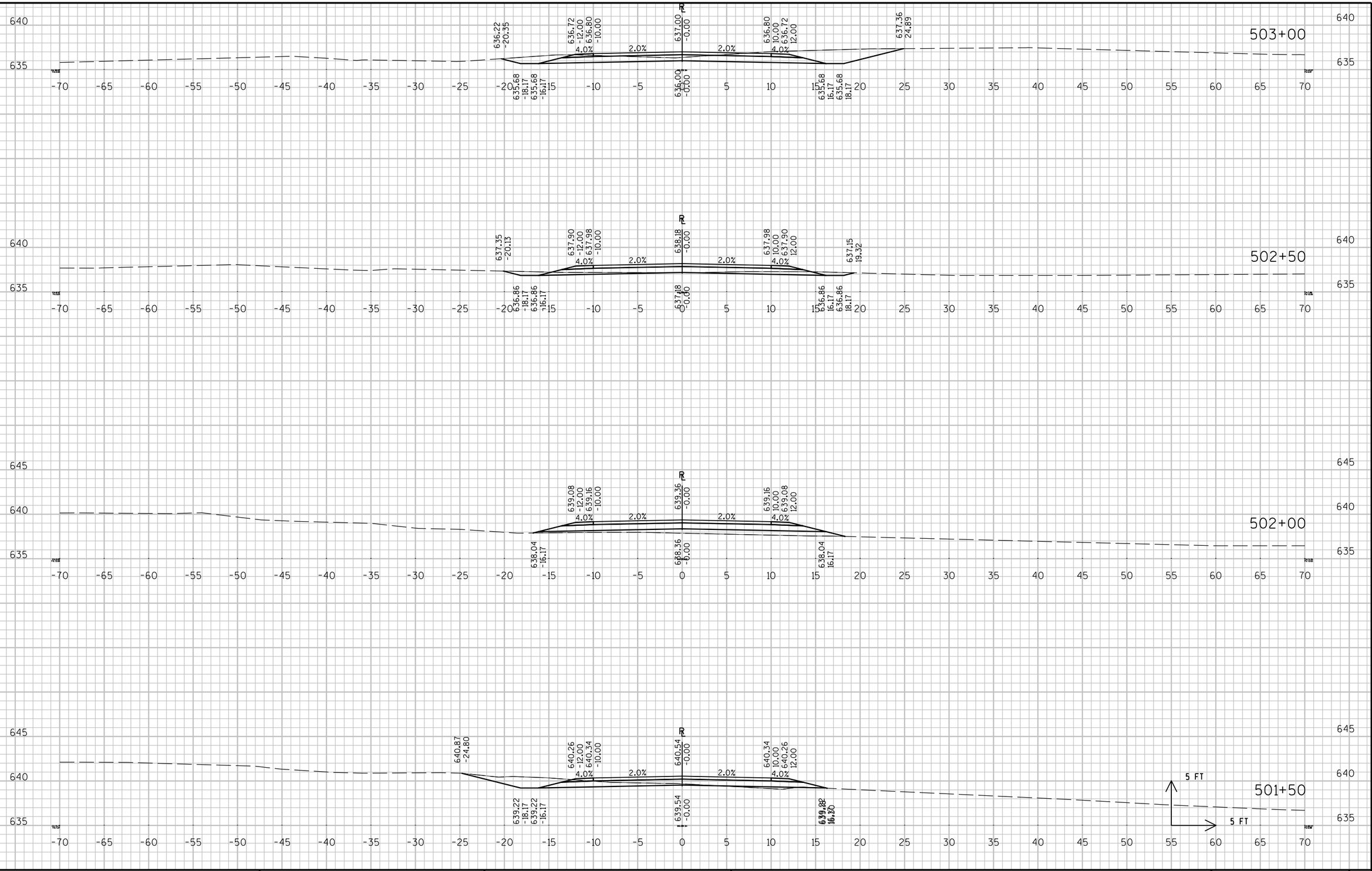
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PLOT BY : $$...plotuser...$$

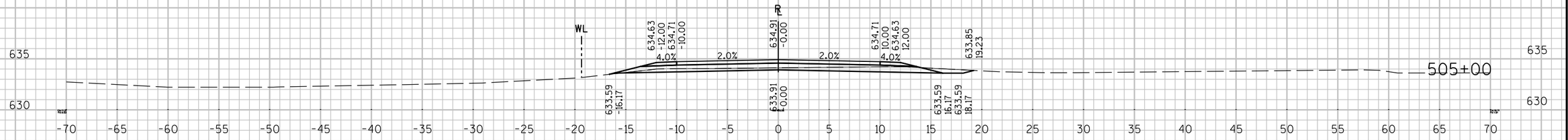
WISDOT/CADDS SHEET 21

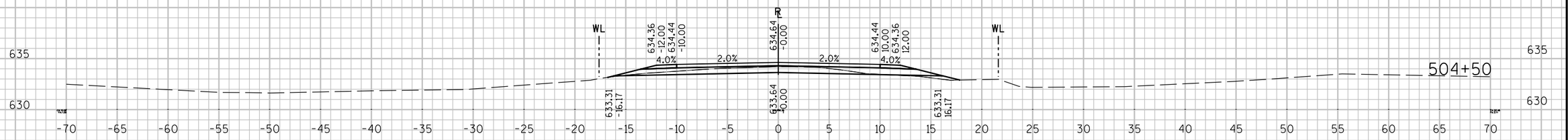


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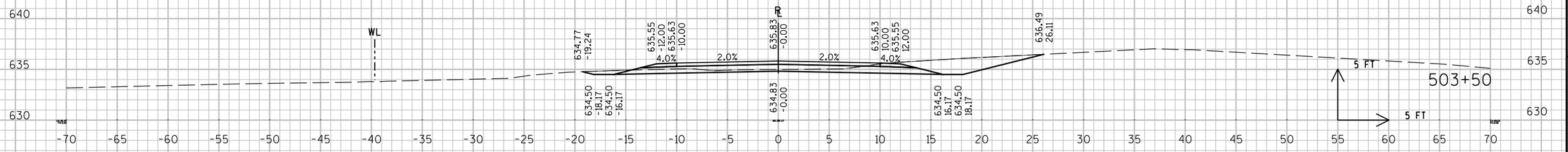
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WISDOT/CADDS SHEET 21









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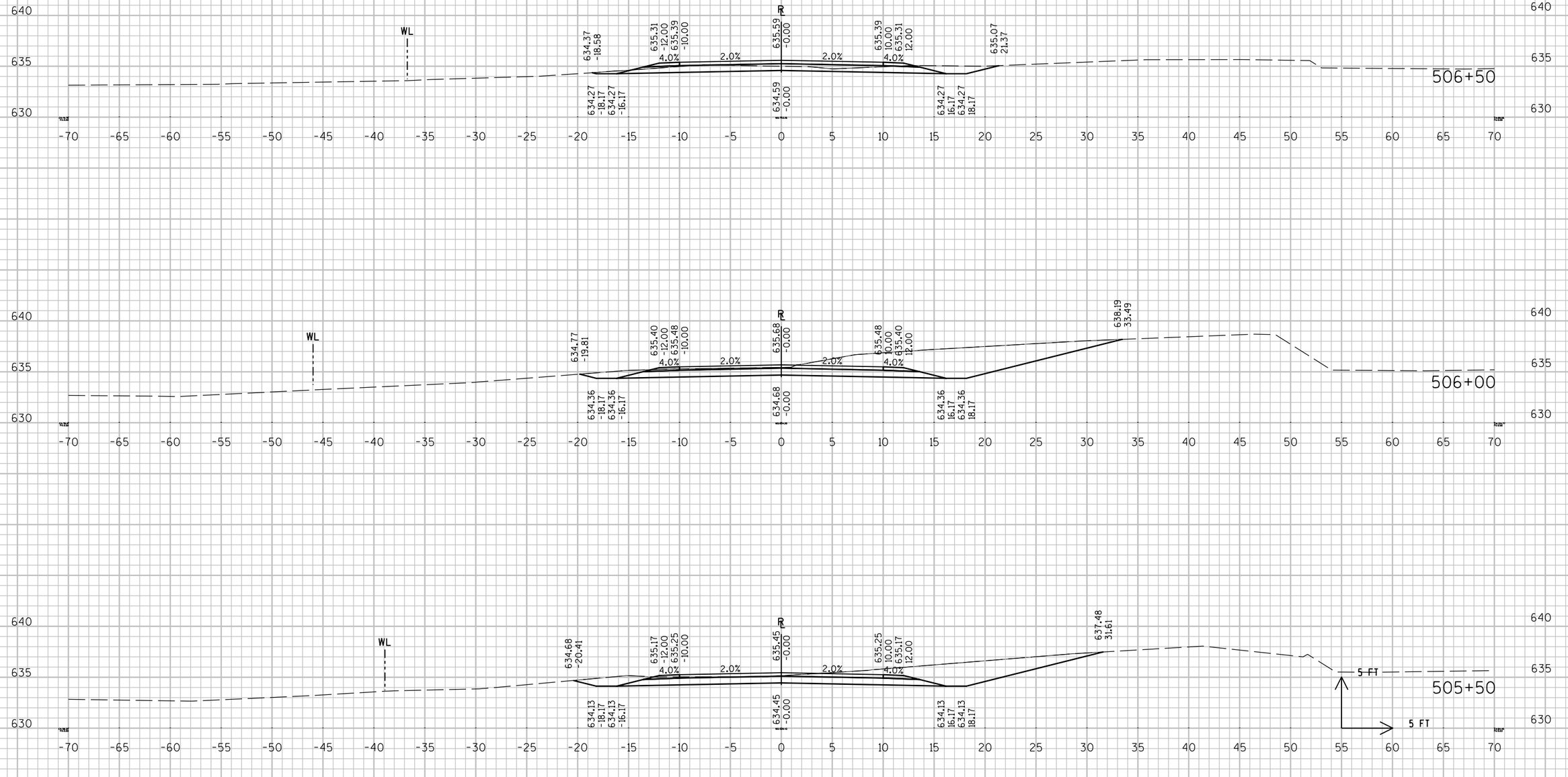
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PLOT DATE : 9/11/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



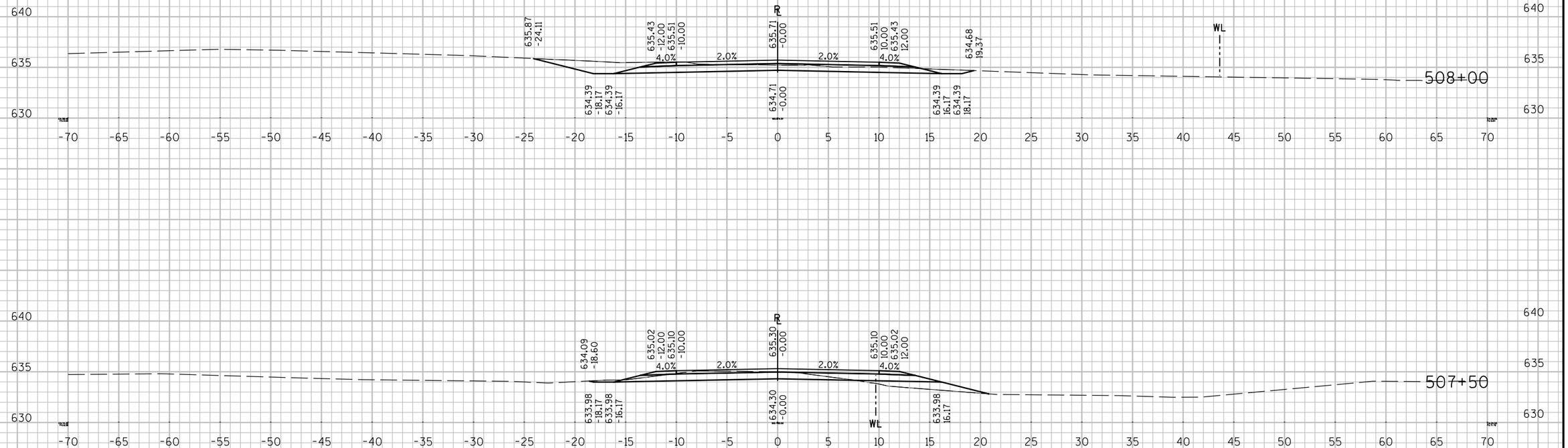
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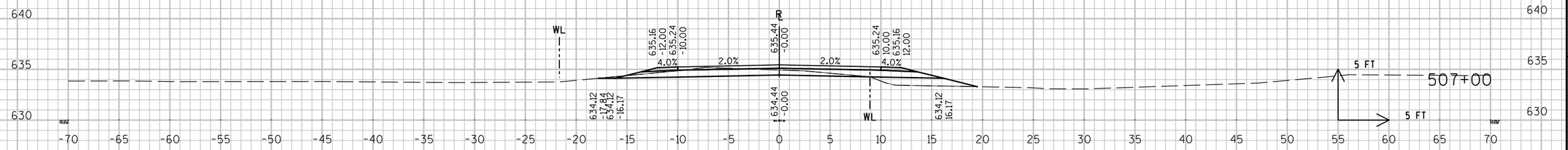
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PROJECT NO: 5085-00-70	HWY: SHELTER 5 RD	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 165	E

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WISDOT/CADDS SHEET 21

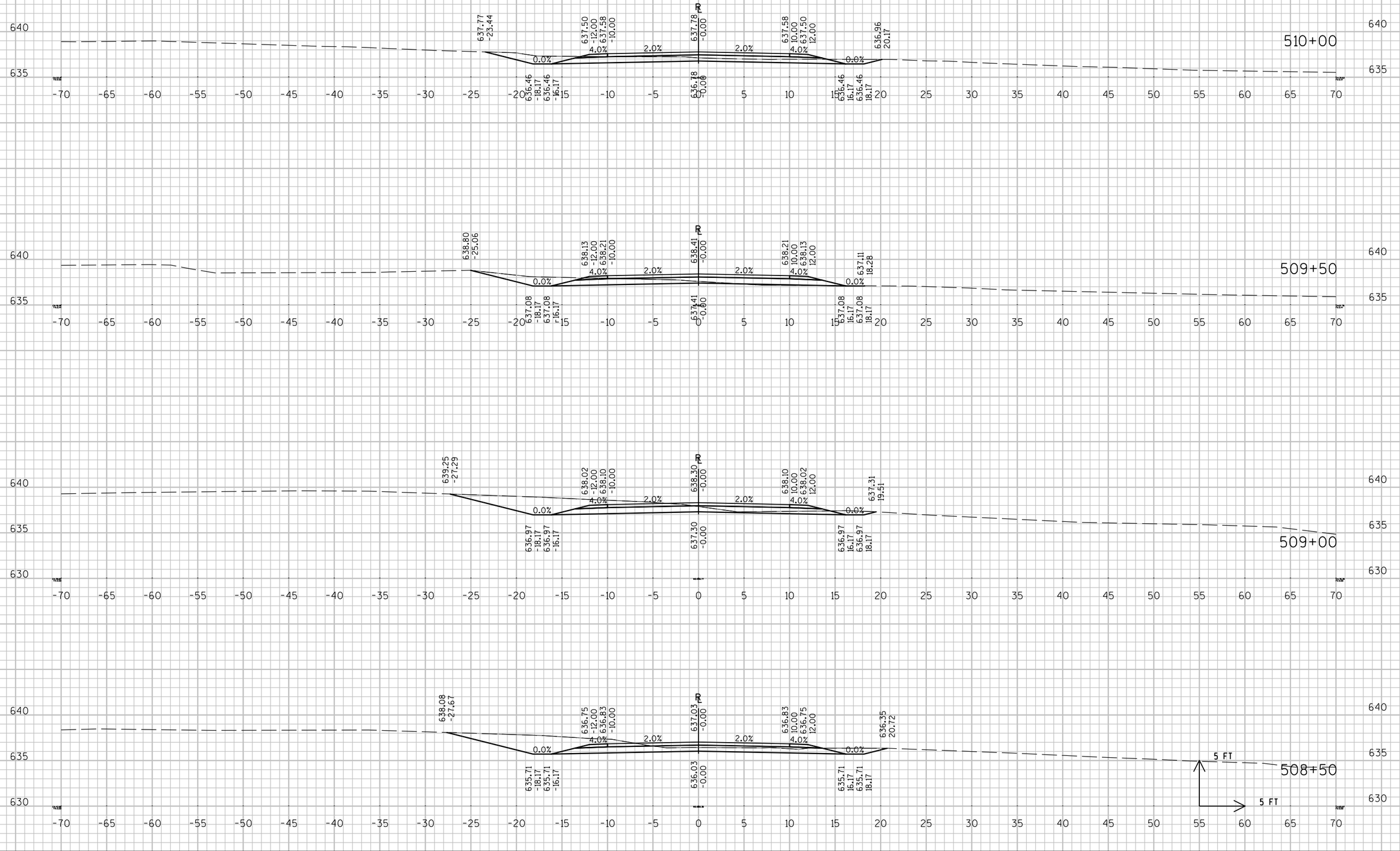




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PROJECT NO: 5085-00-70	HWY: SHELTER 5 RD	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 166	E



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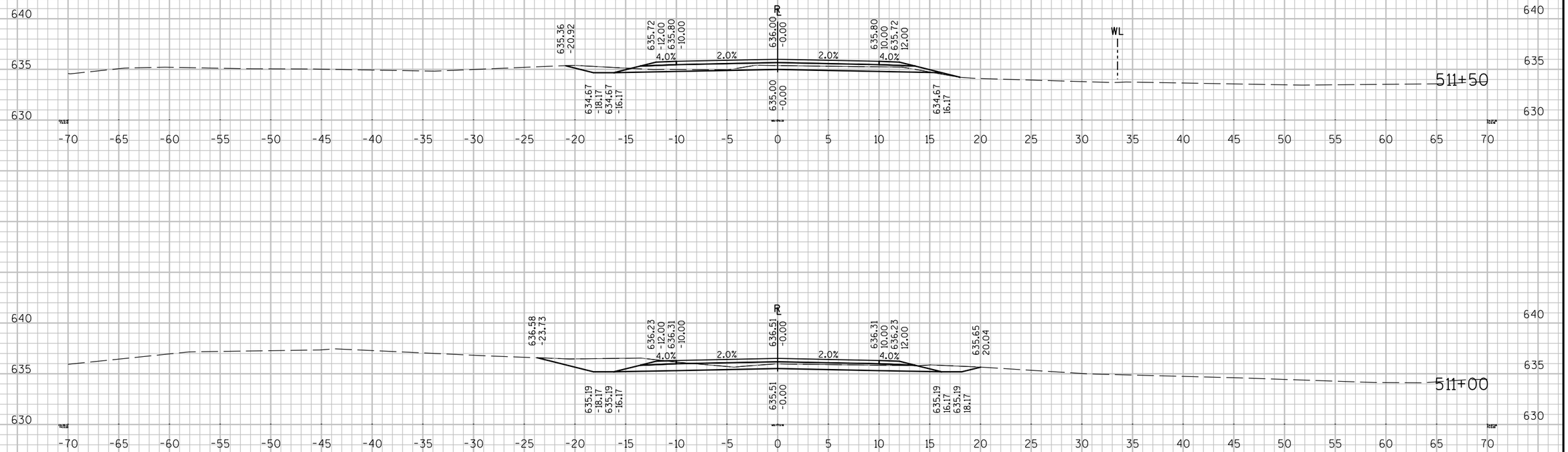
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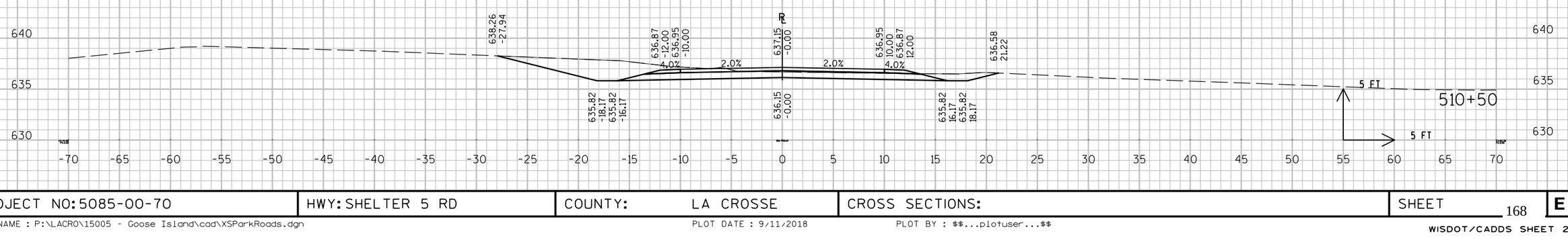
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WISDOT/CADDS SHEET 21





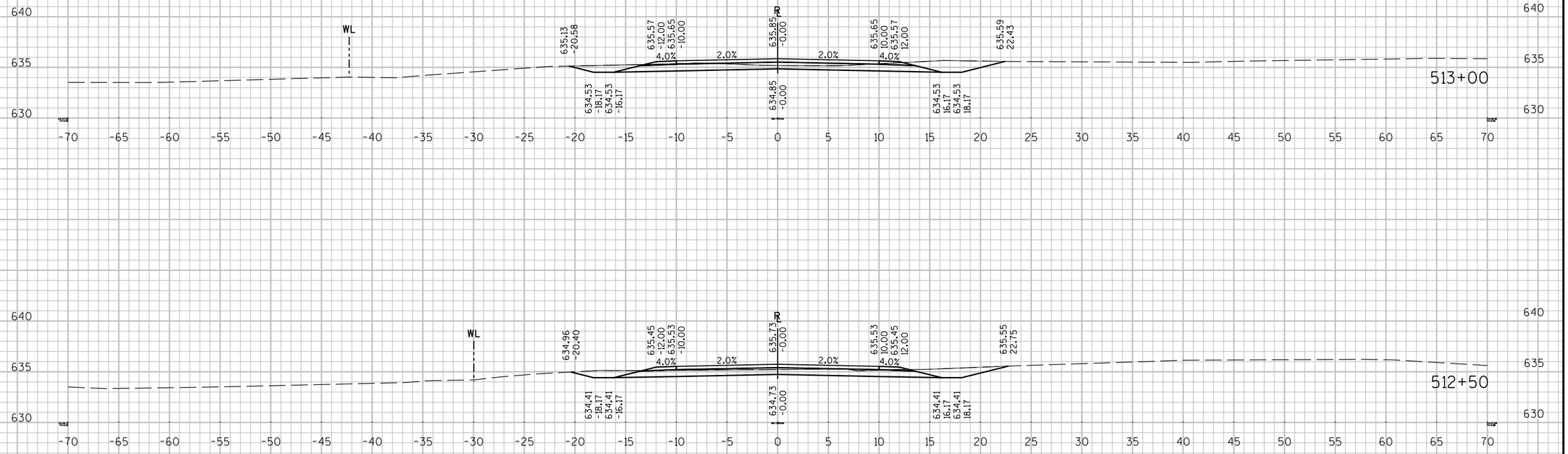
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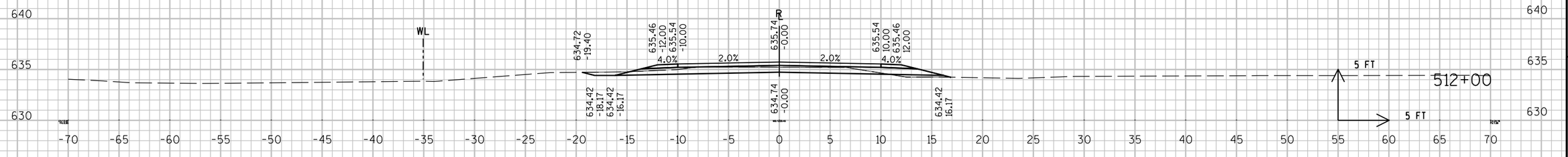
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PROJECT NO: 5085-00-70	HWY: SHELTER 5 RD	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 168	E

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WISDOT/CADDS SHEET 21





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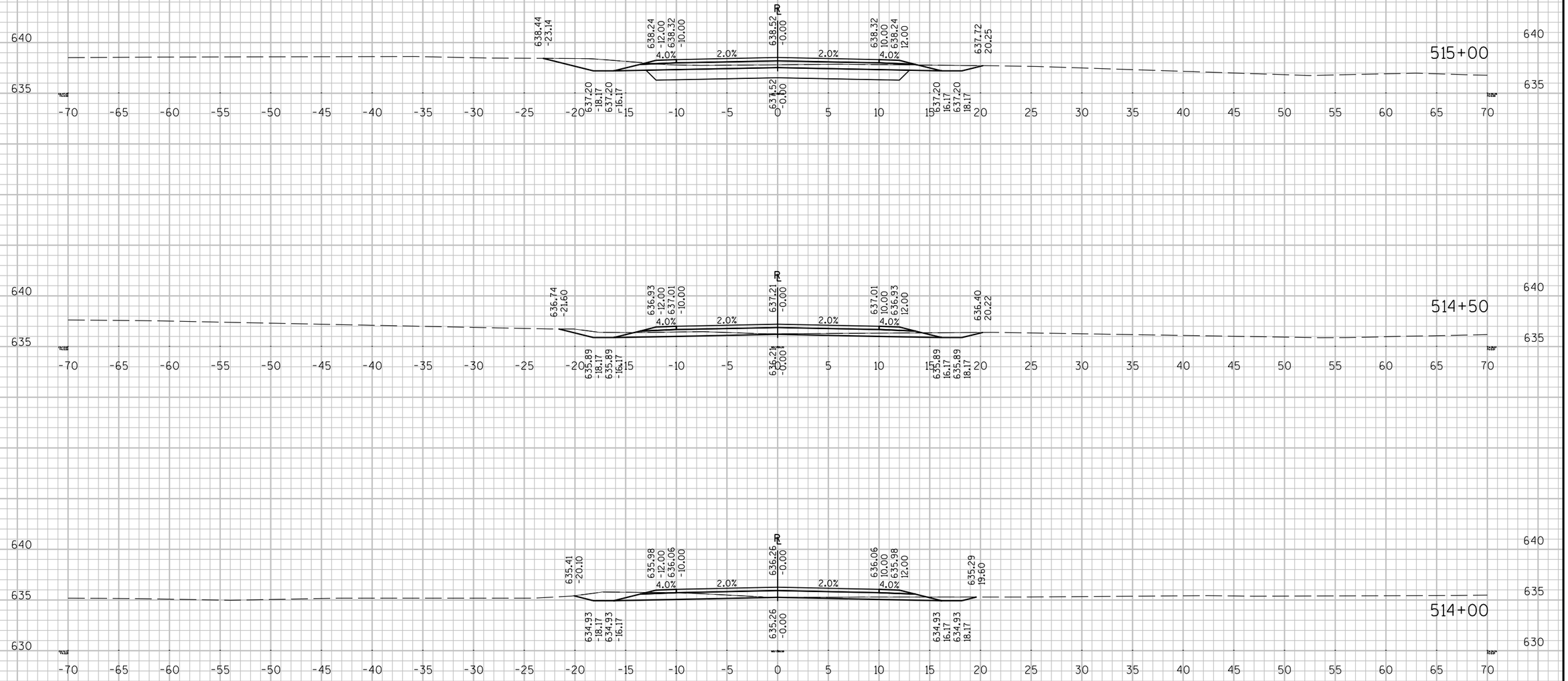
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PLOT DATE : 9/11/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

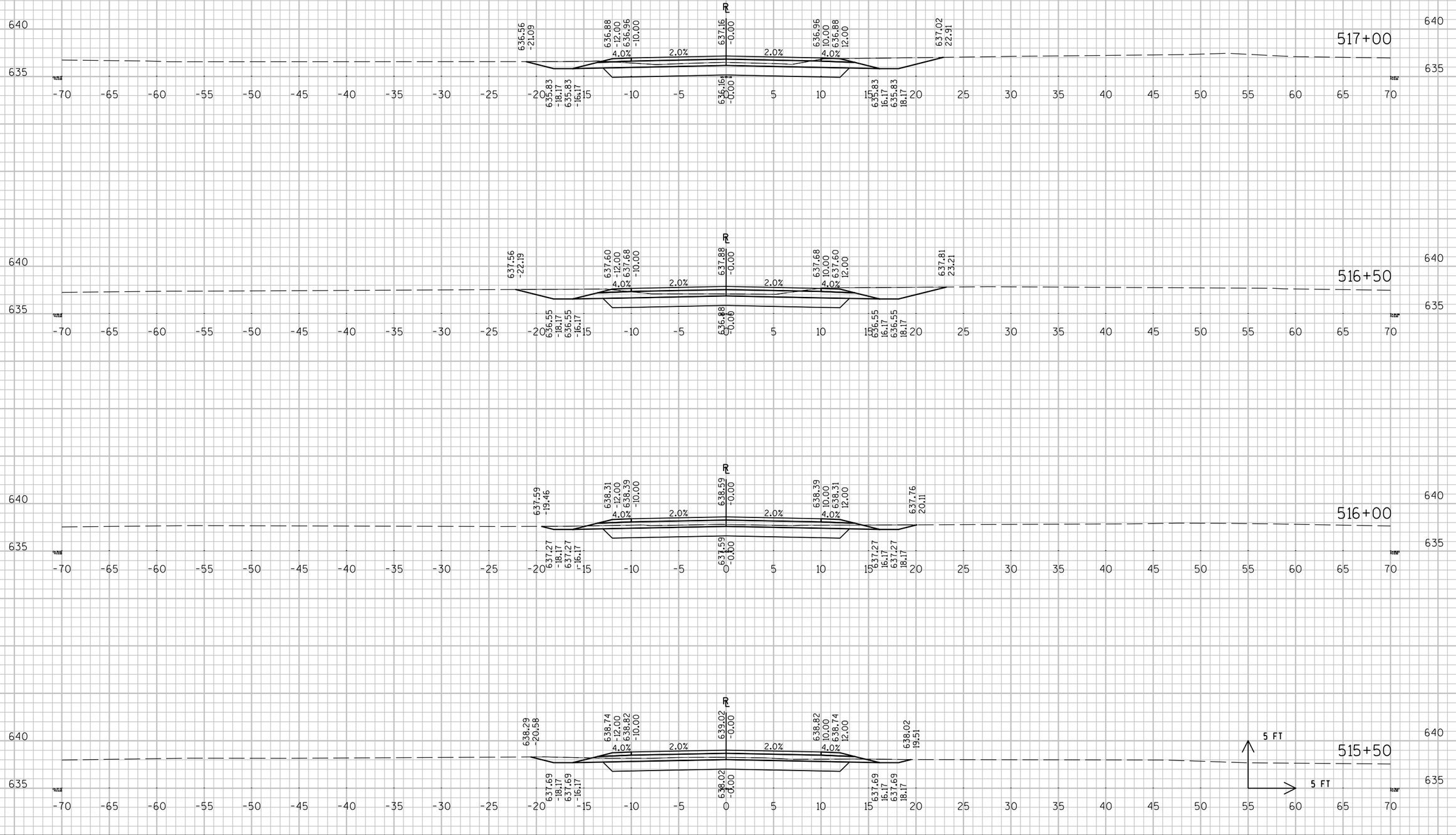


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PROJECT NO: 5085-00-70	HWY: SHELTER 5 RD	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 170	E

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WISDOT/CADDS SHEET 21



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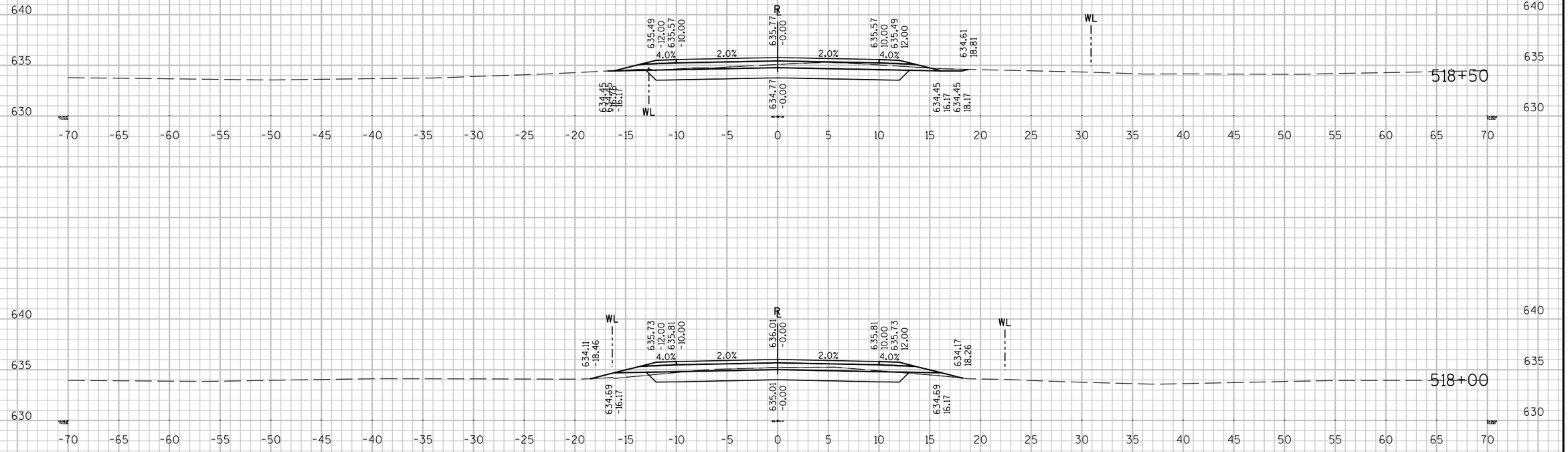
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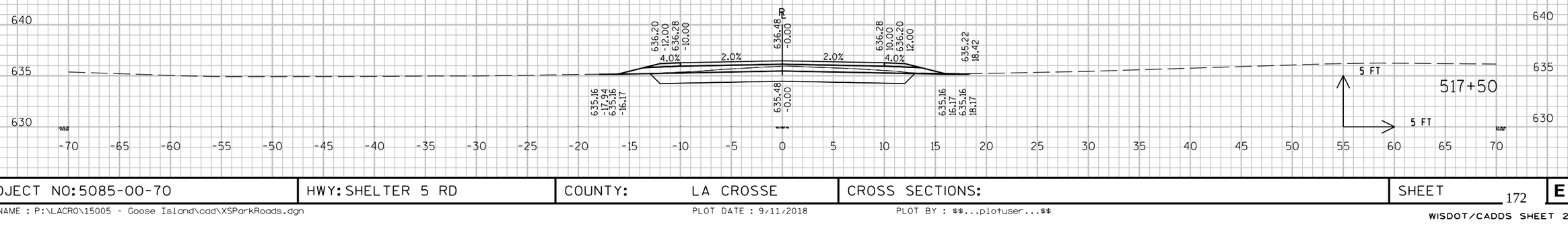
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PLOT DATE : 9/11/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21





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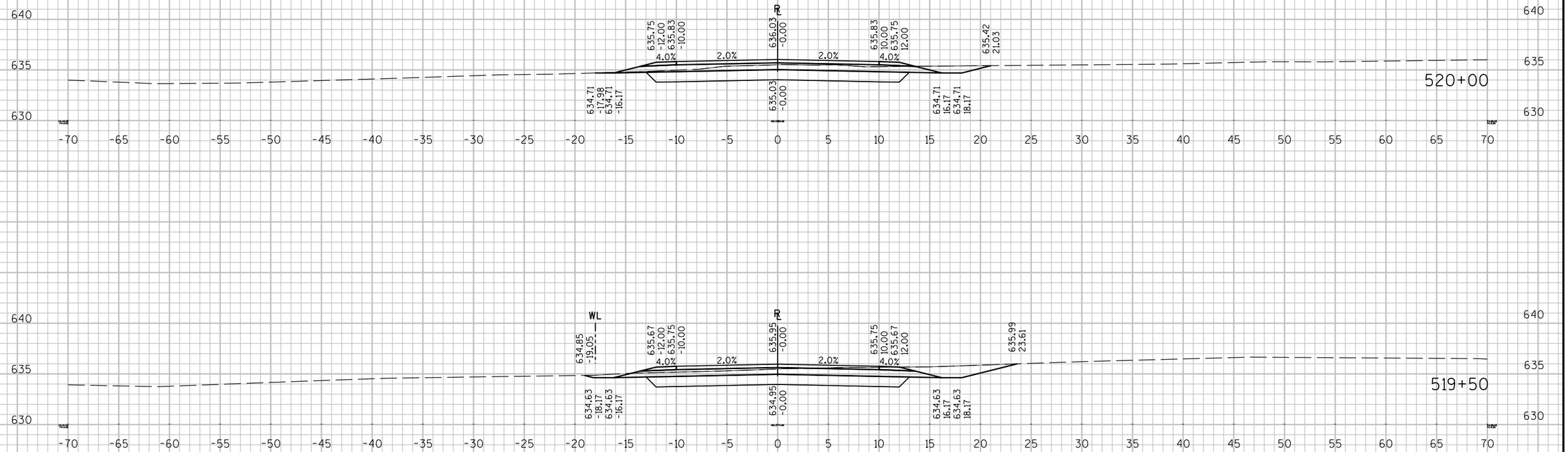
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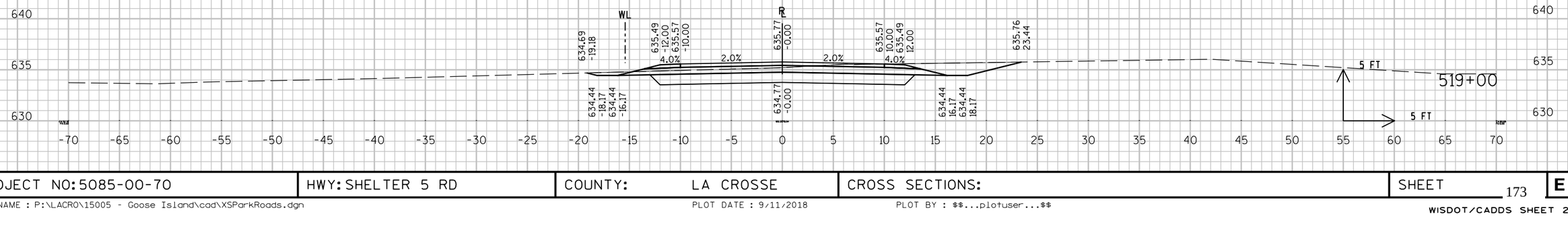
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PLOT DATE : 9/11/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21





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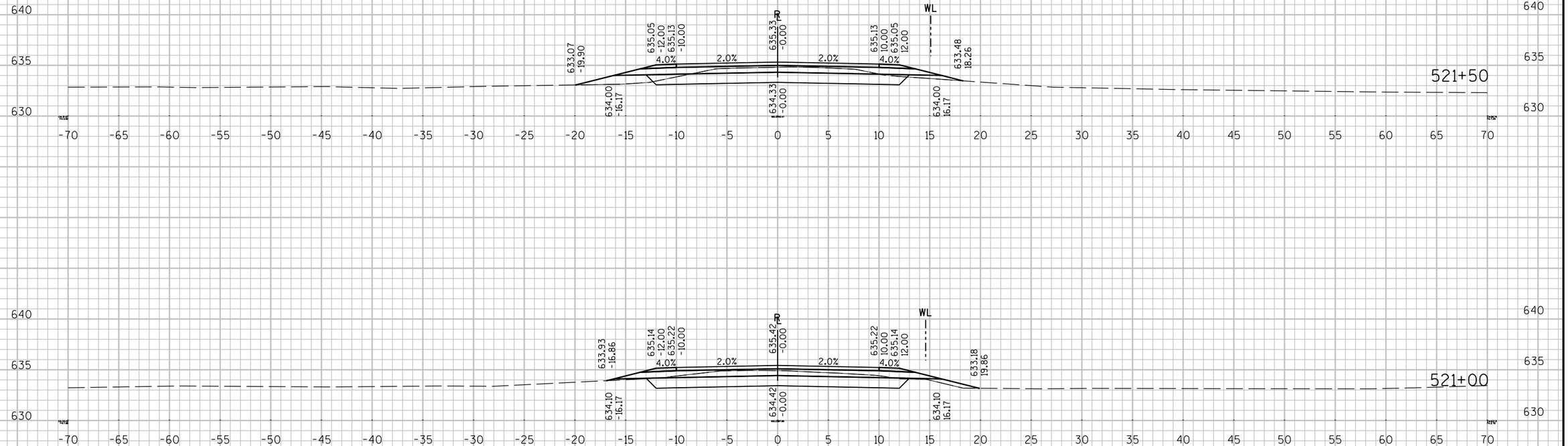
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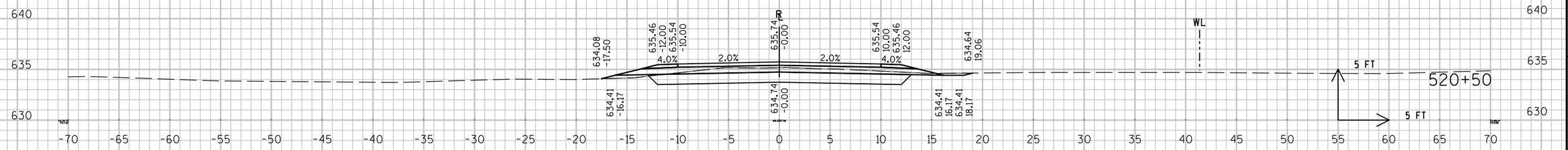
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PLOT DATE : 9/11/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21





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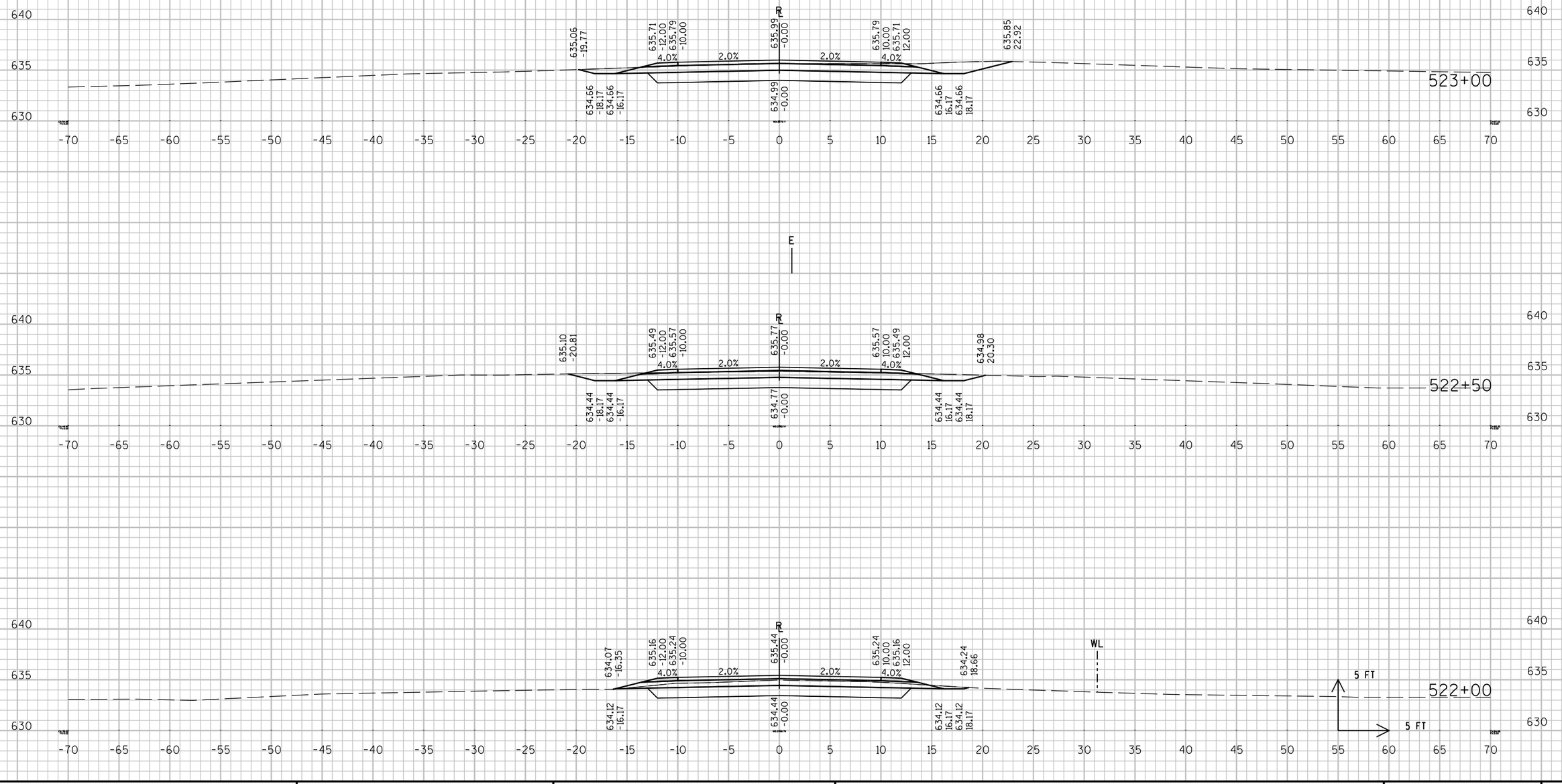
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PLOT DATE : 9/11/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

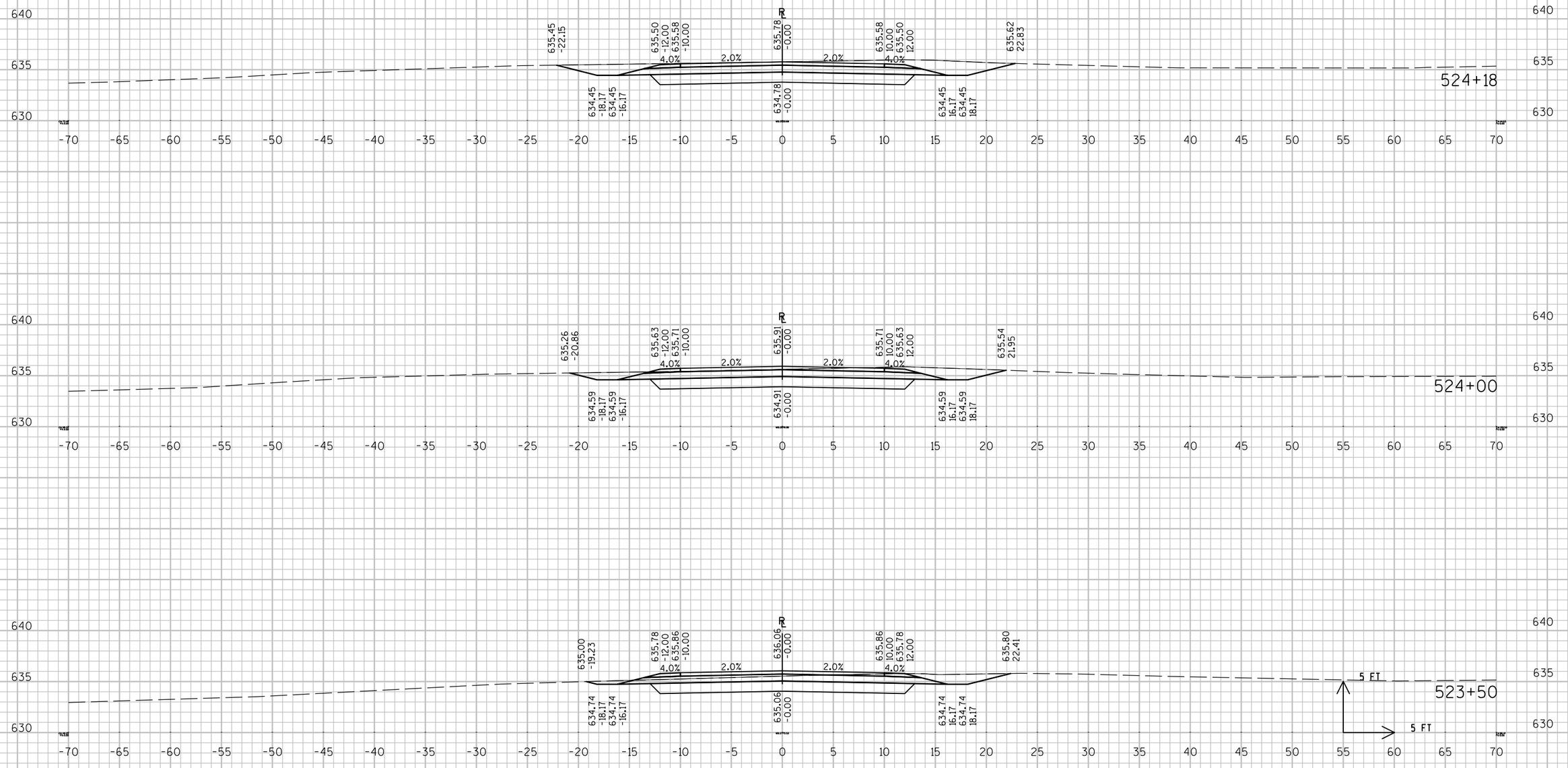


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PROJECT NO: 5085-00-70	HWY: SHELTER 5 RD	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 175	E

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WISDOT/CADDS SHEET 21



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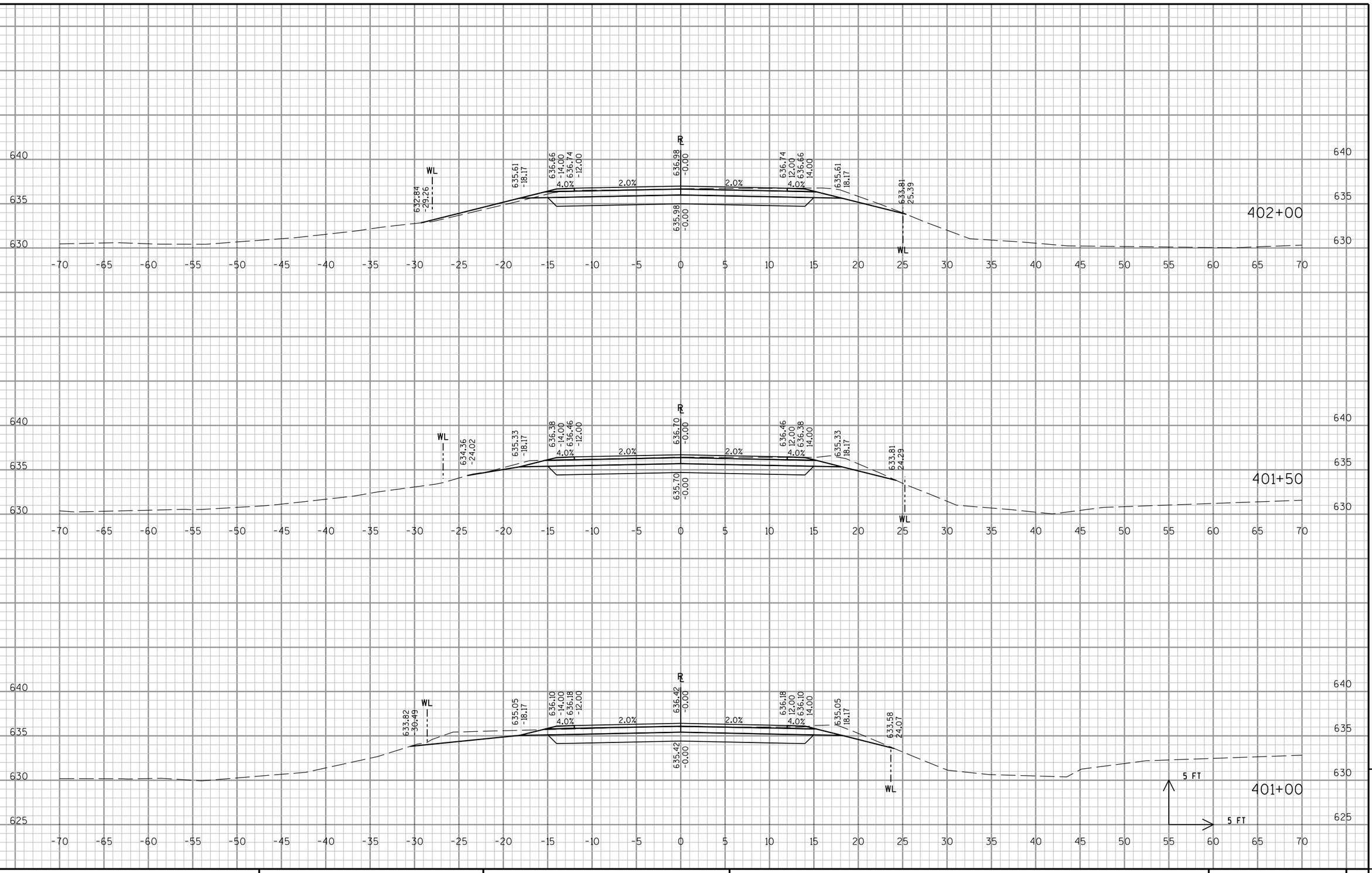
PROJECT NO: 5085-00-70	HWY: SHELTER 5 RD	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 176	E

FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 9/11/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



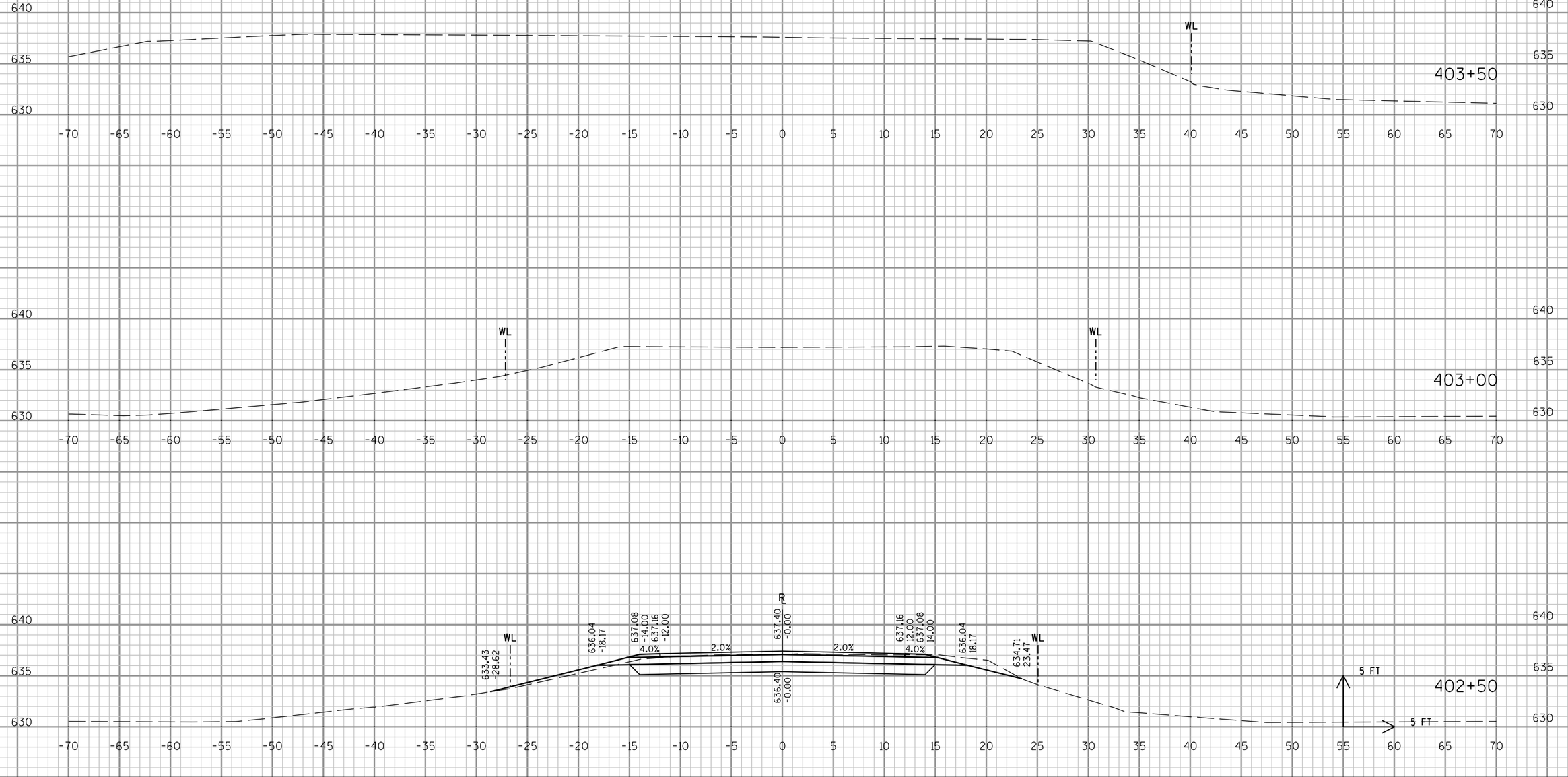
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PROJECT NO: 5085-00-70	HWY: CTH GI3	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 177	E

FILE NAME : P:\LACR0\15005 - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 9/11/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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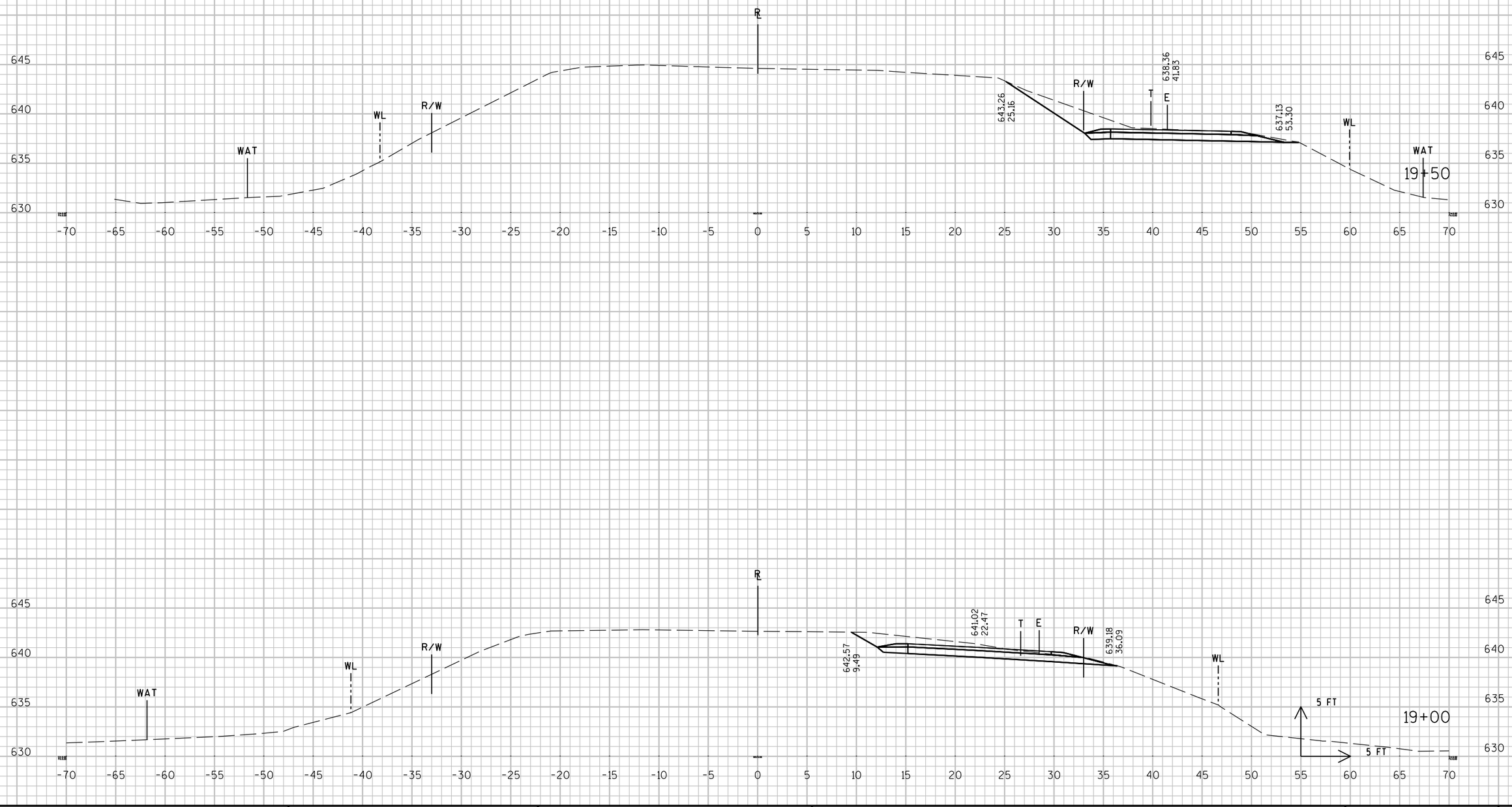
PROJECT NO: 5085-00-70	HWY: CTH GI3	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 178	E

FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 9/11/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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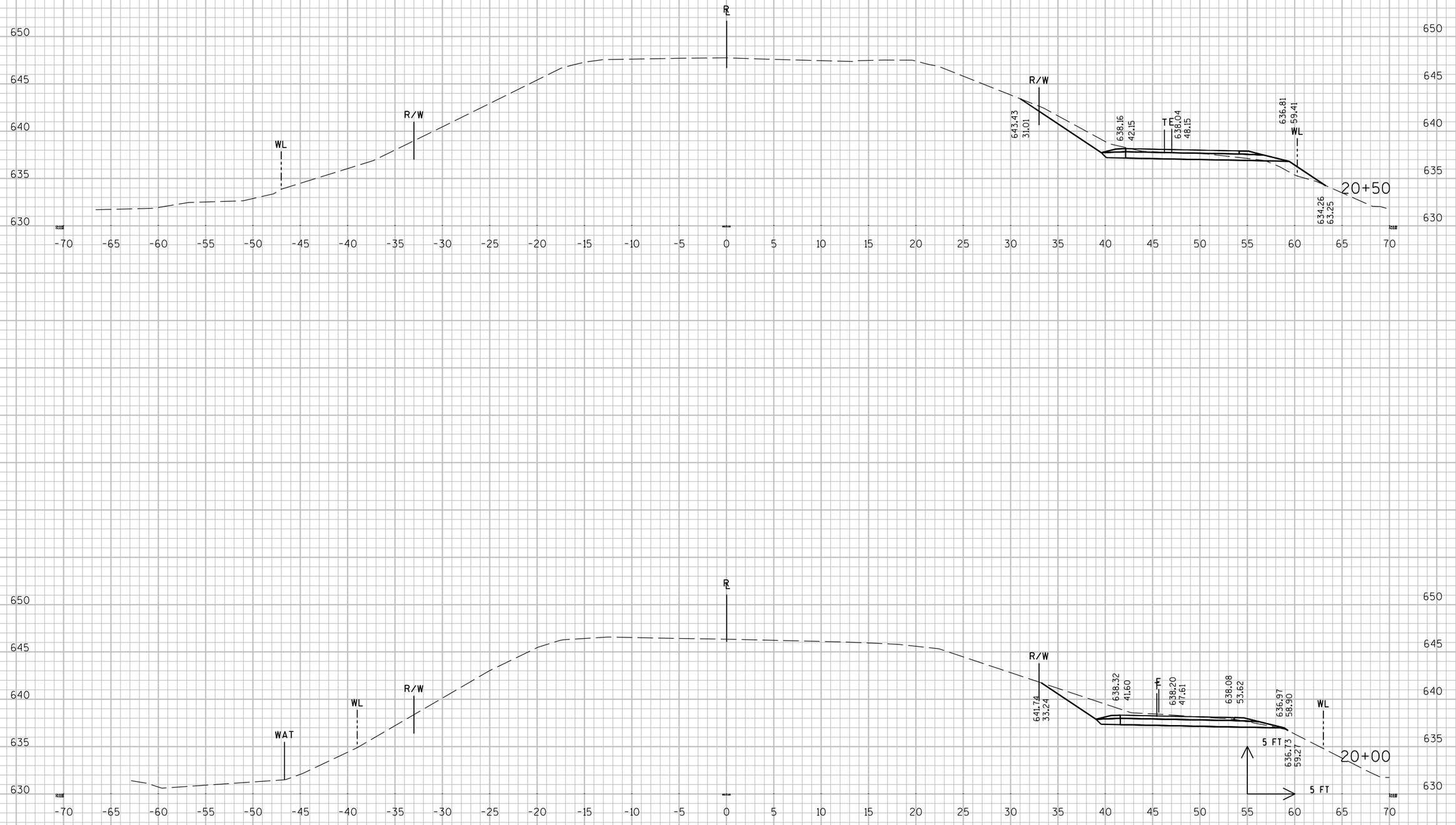
PROJECT NO: 5085-00-70	HWY: CTH GI BRIDGE LANDING	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 179	E

FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 9/11/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



9

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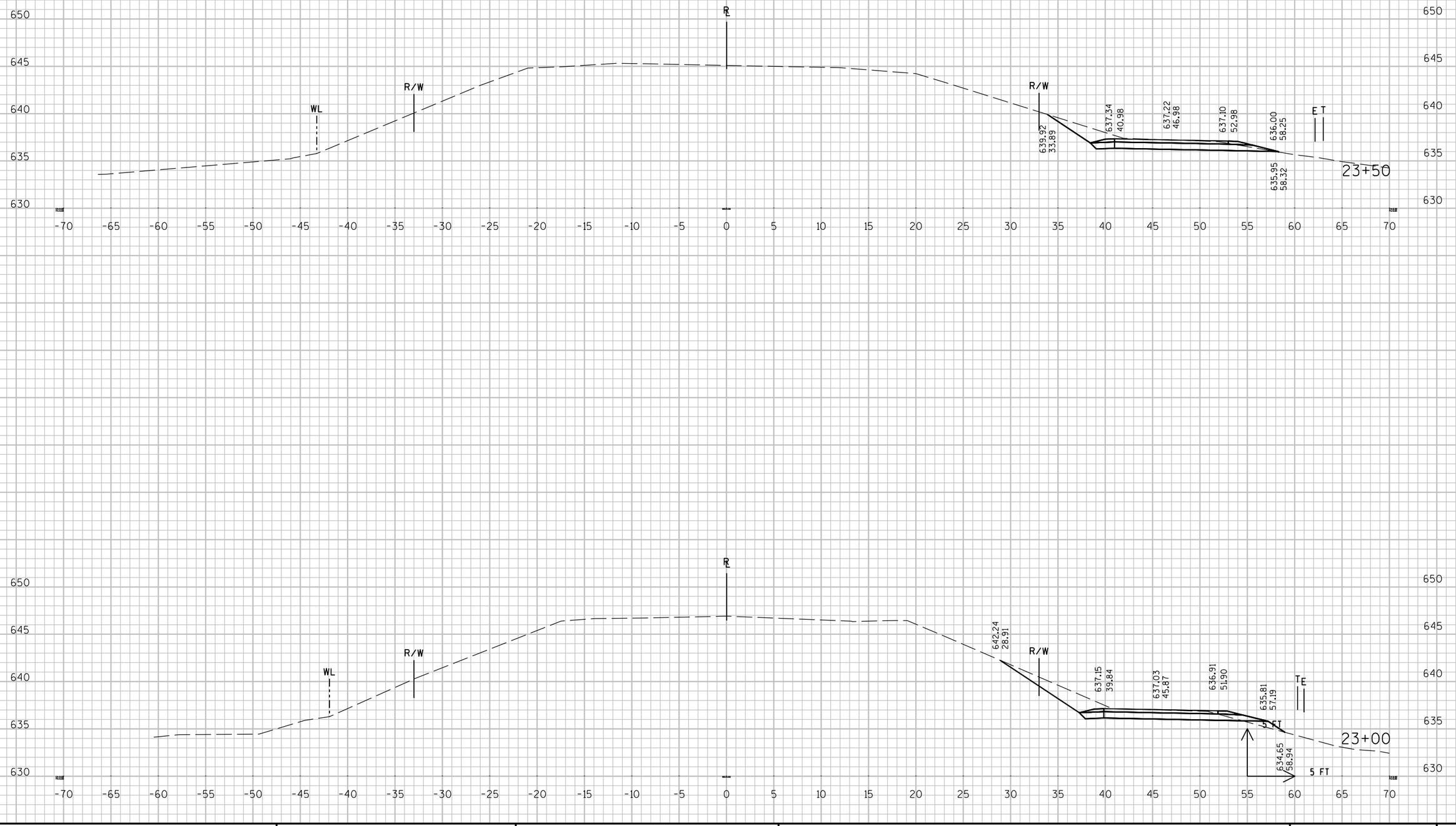
PROJECT NO: 5085-00-70	HWY: CTH GI BRIDGE LANDING	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 180	E

FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 9/11/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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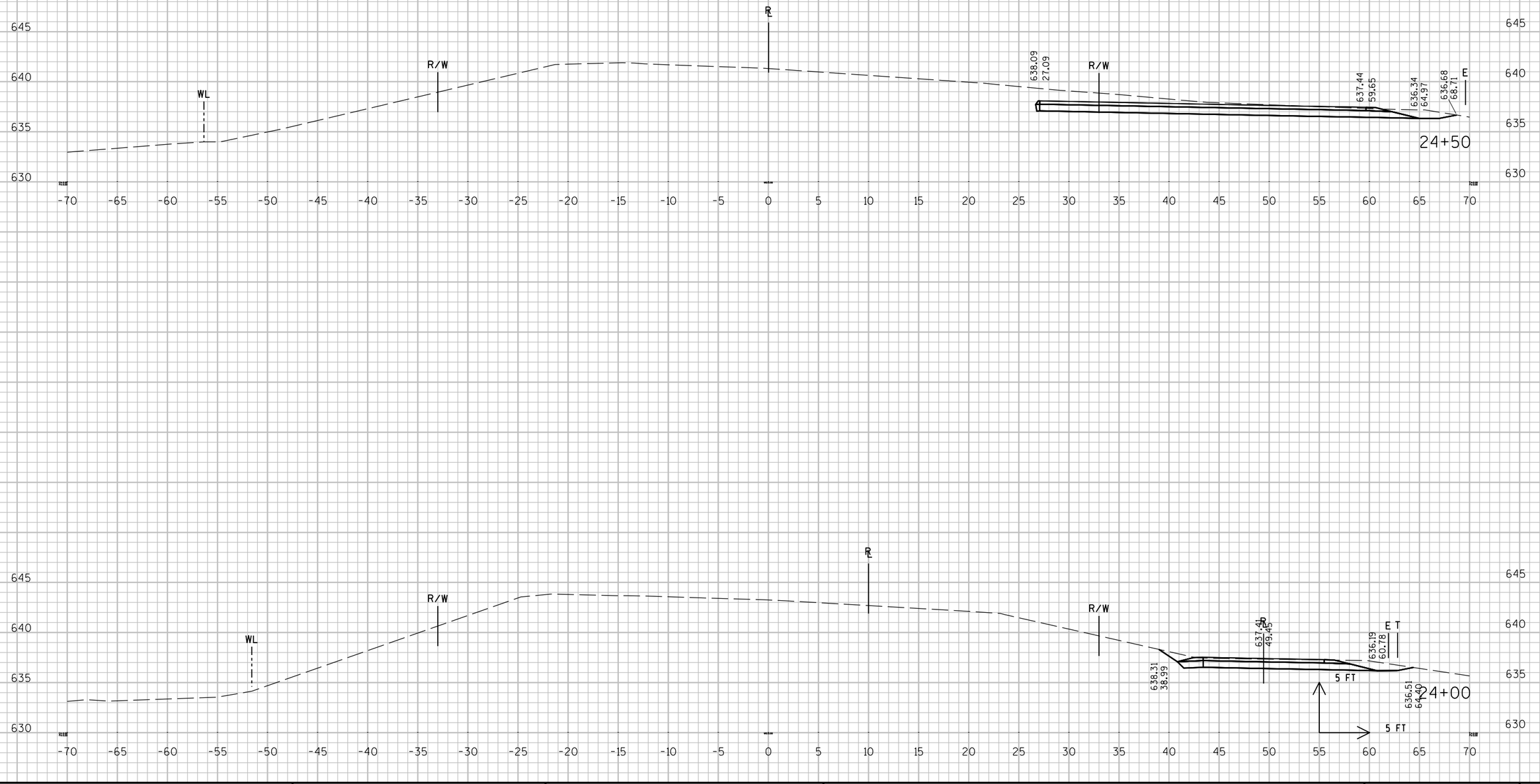
PROJECT NO: 5085-00-70	HWY: CTH GI BRIDGE LANDING	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 181	E

FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 9/11/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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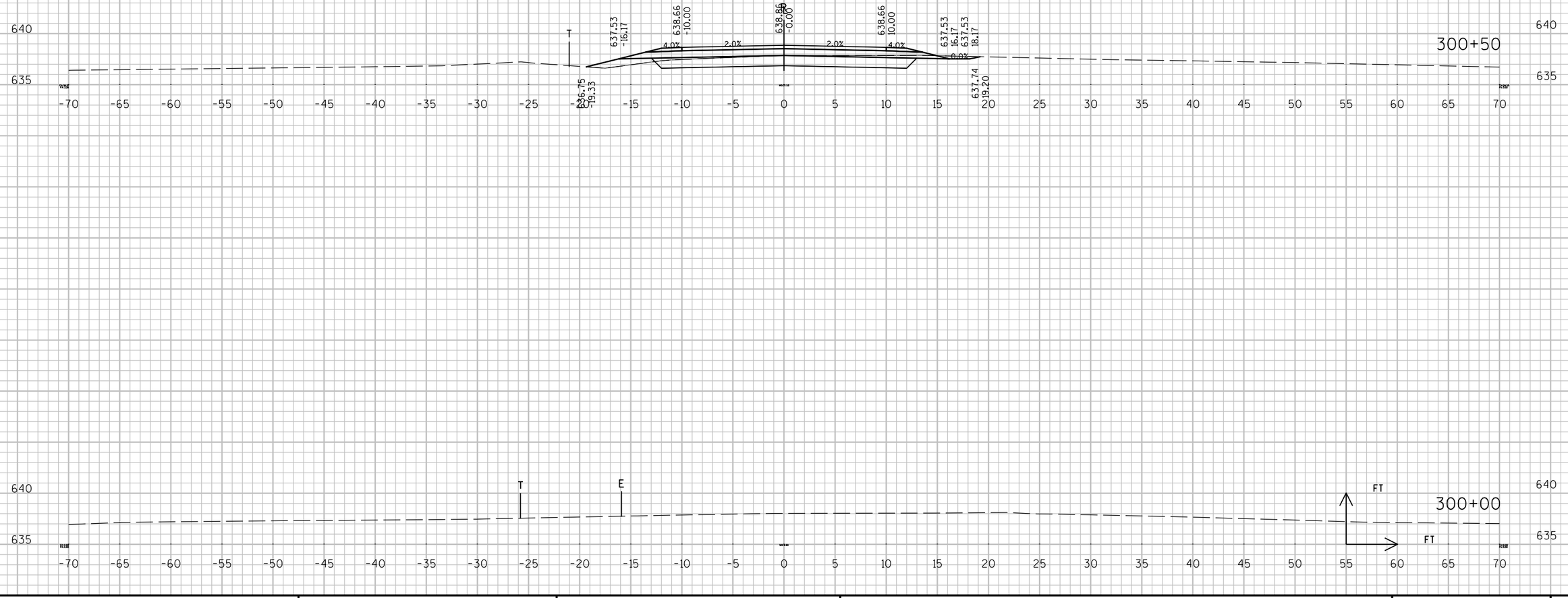
PROJECT NO: 5085-00-70	HWY: CTH GI BRIDGE LANDING	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 182	E

FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 9/11/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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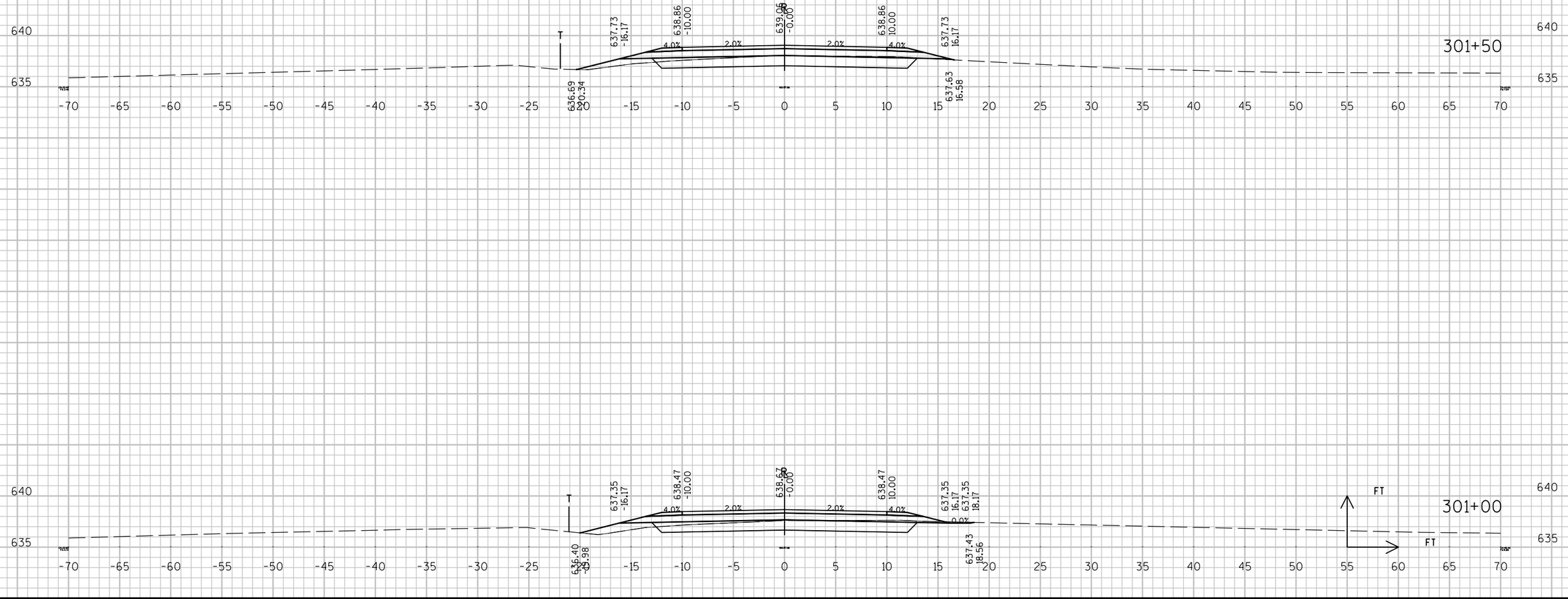
PROJECT NO:5085-00-70	HWY: WEST LANDING ROAD	COUNTY:LA CROSSE	CROSS SECTIONS:	SHEET 183	E

FILE NAME : P:\LACROS\15005 - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 9/11/2018

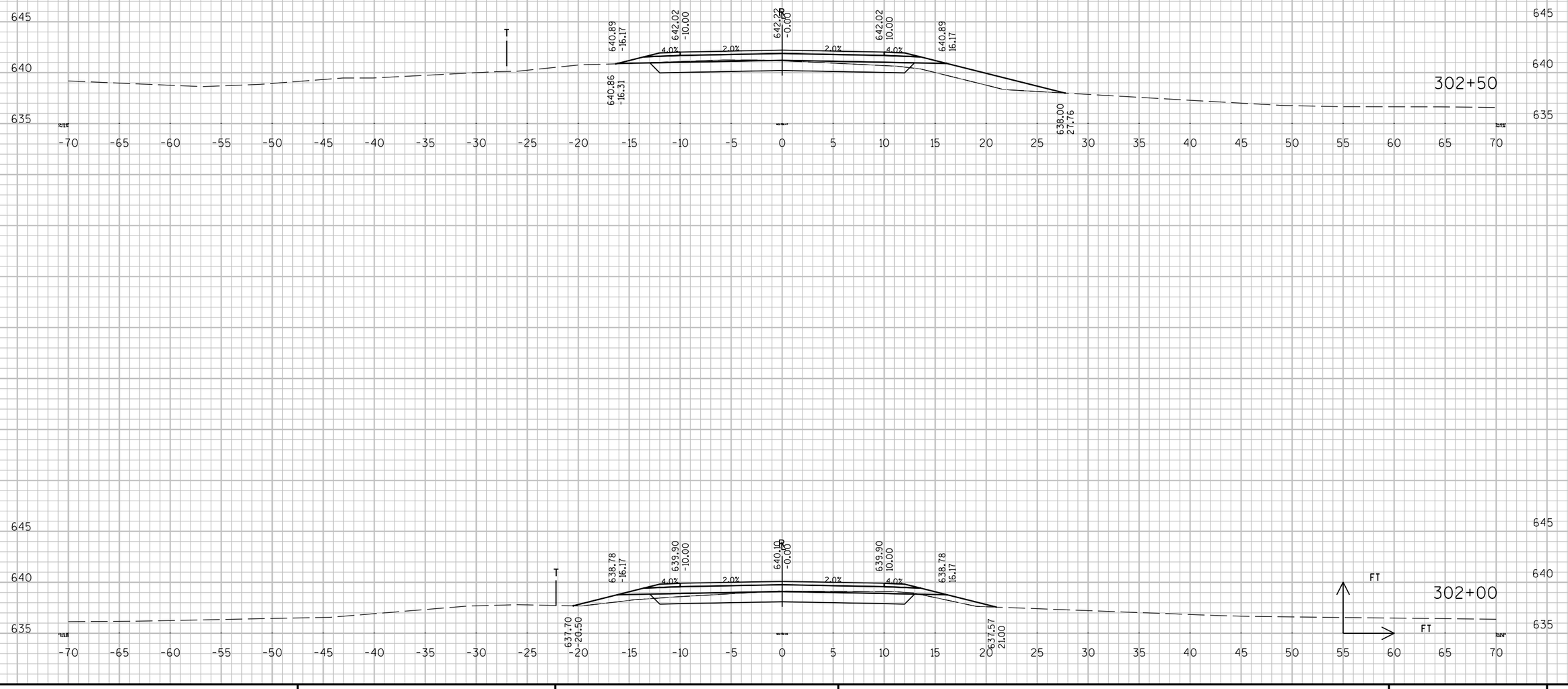
PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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PROJECT NO:5085-00-70	HWY: WEST LANDING ROAD	COUNTY:LA CROSSE	CROSS SECTIONS:	SHEET 184	E

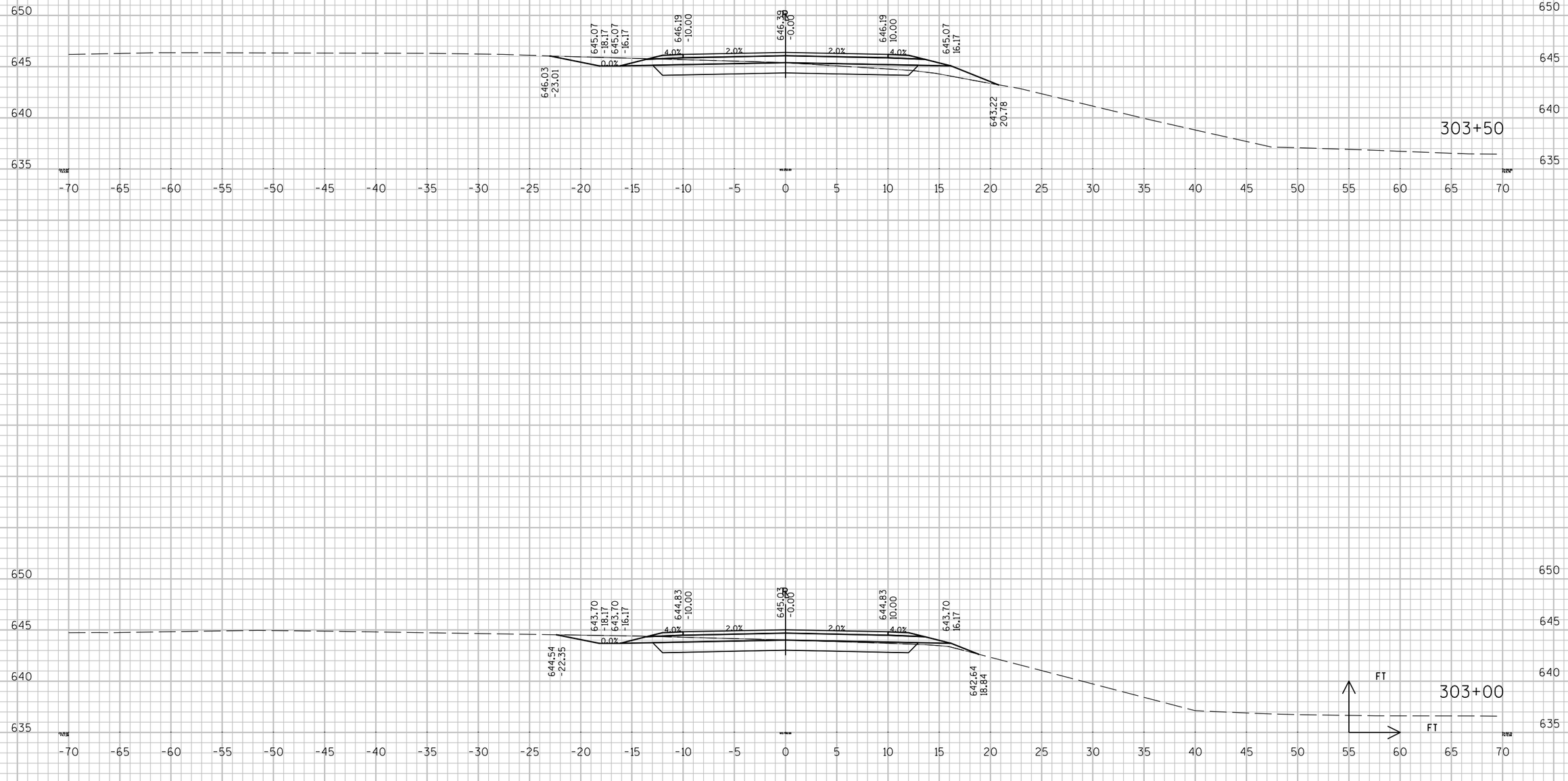


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PROJECT NO:5085-00-70	HWY:WEST LANDING ROAD	COUNTY:LA CROSSE	CROSS SECTIONS:	SHEET 185	E

FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 9/11/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

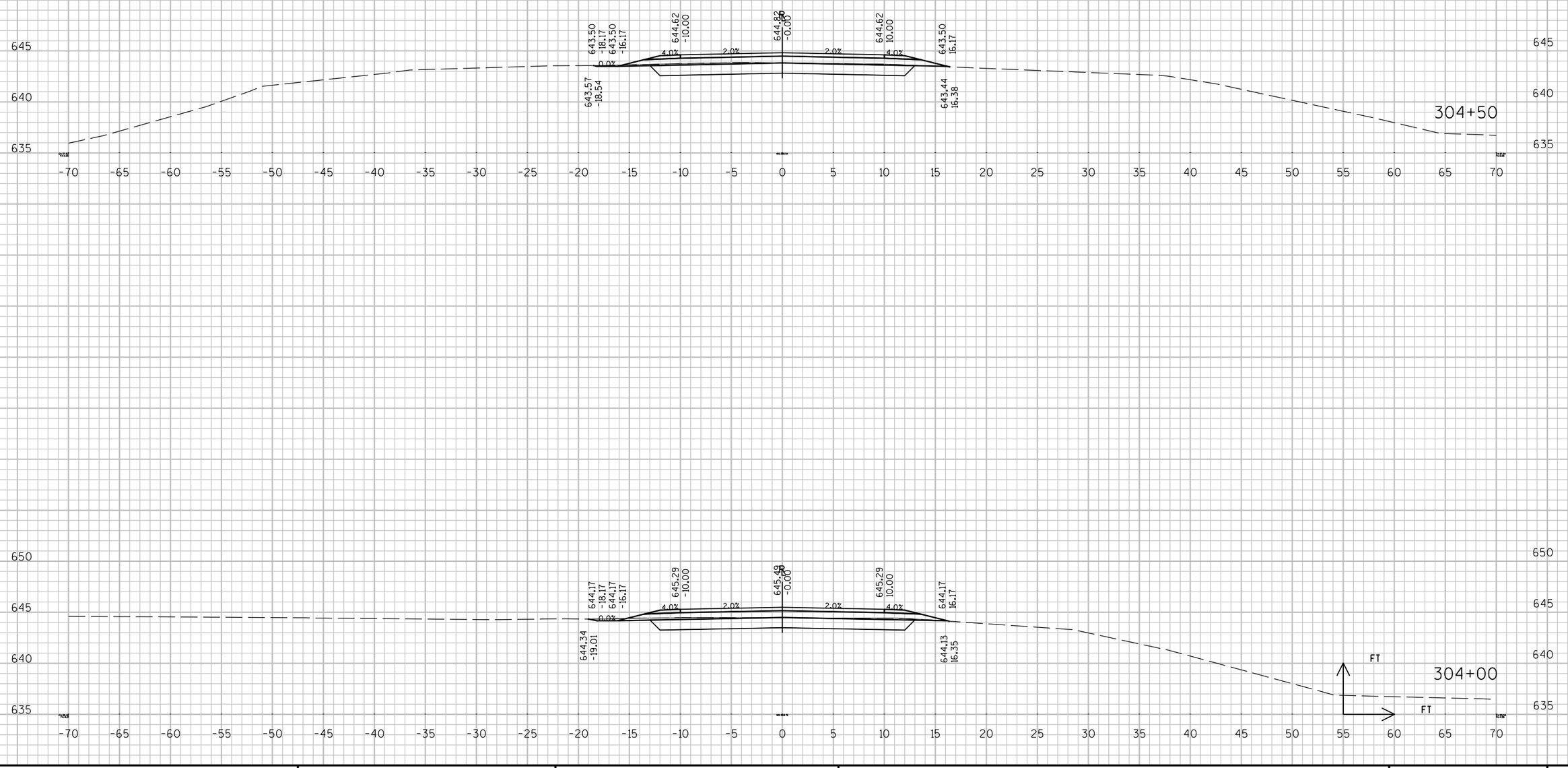


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PROJECT NO:5085-00-70	HWY:WEST LANDING ROAD	COUNTY:LA CROSSE	CROSS SECTIONS:	SHEET 186	E

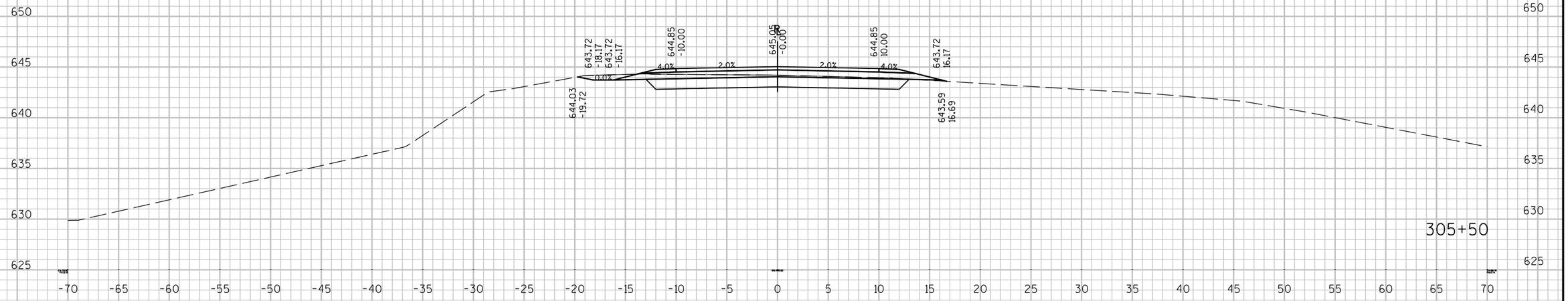
FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 9/11/2018 PLOT BY : $$...plotuser...$$

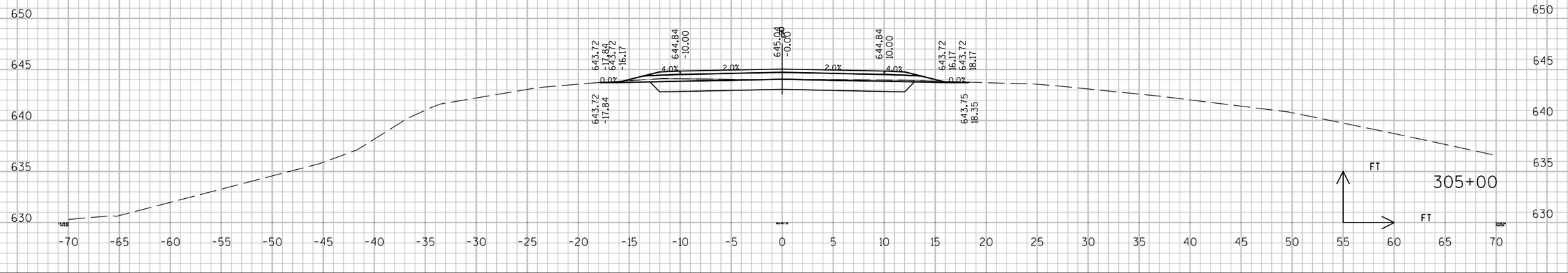
WISDOT/CADDS SHEET 21



9 9

PROJECT NO:5085-00-70	HWY: WEST LANDING ROAD	COUNTY:LA CROSSE	CROSS SECTIONS:	SHEET 187	E

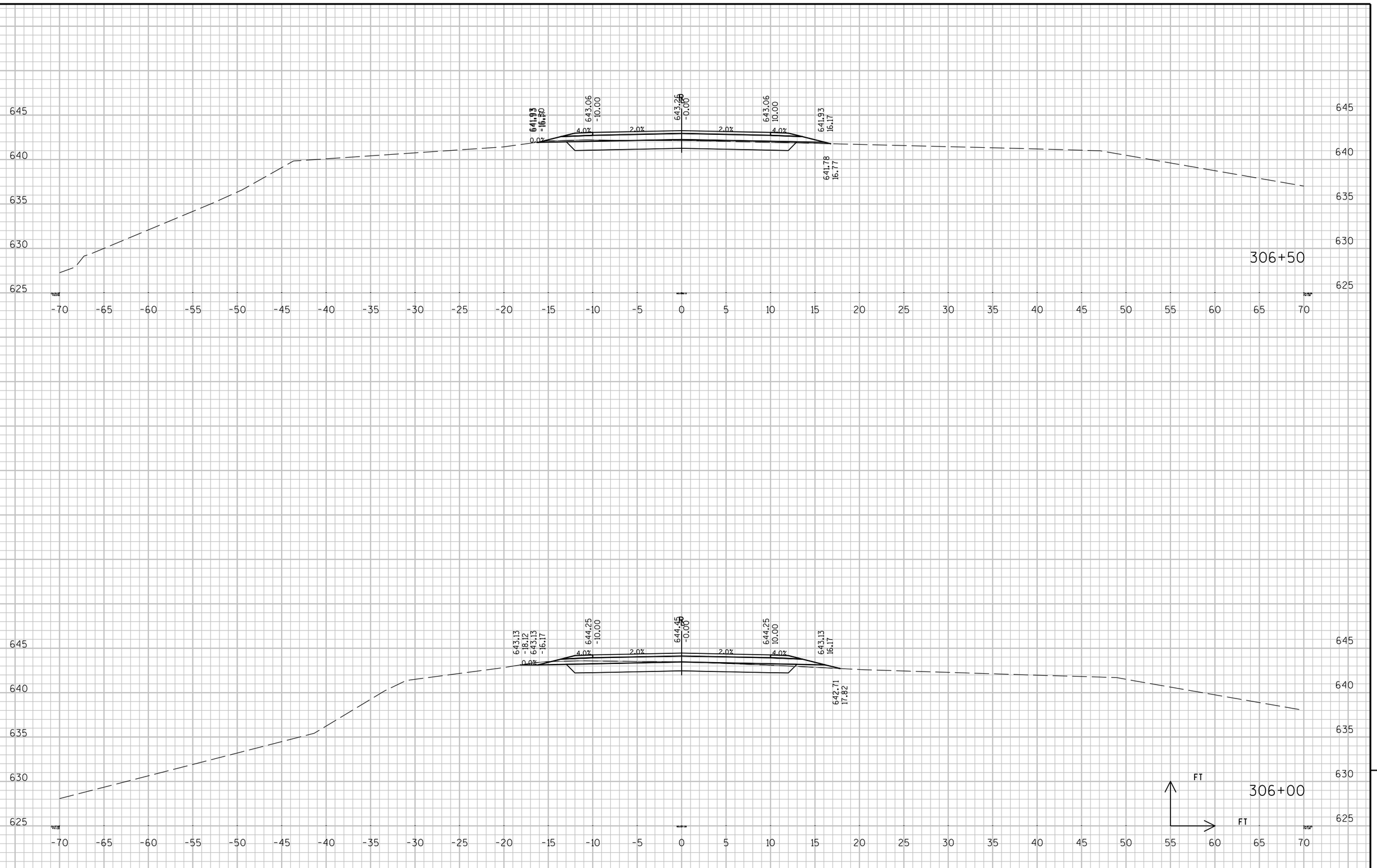




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PROJECT NO:5085-00-70	HWY:WEST LANDING ROAD	COUNTY:LA CROSSE	CROSS SECTIONS:	SHEET 188	E



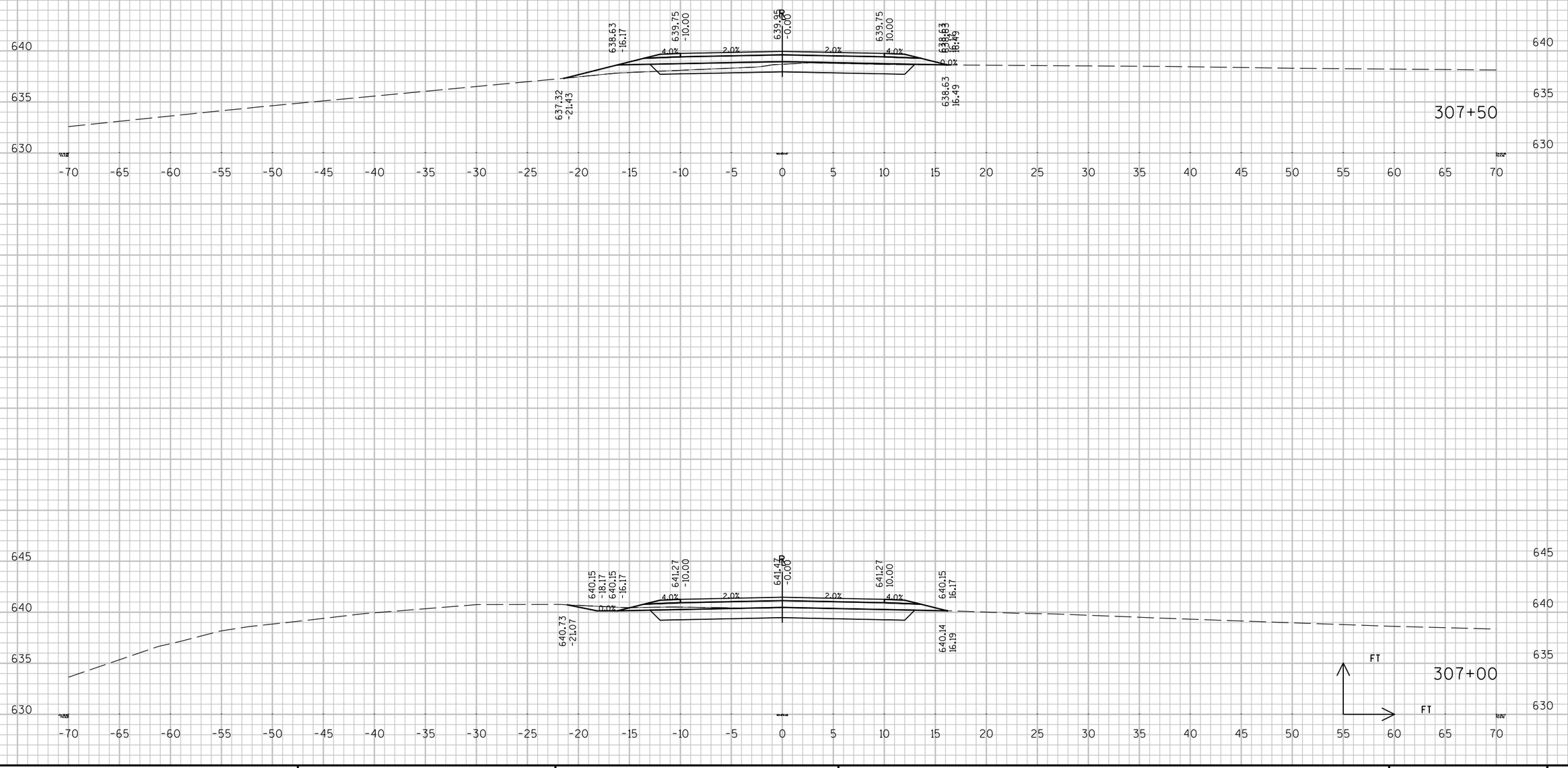
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PROJECT NO:5085-00-70	HWY:WEST LANDING ROAD	COUNTY:LA CROSSE	CROSS SECTIONS:	SHEET 189	E

FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 9/11/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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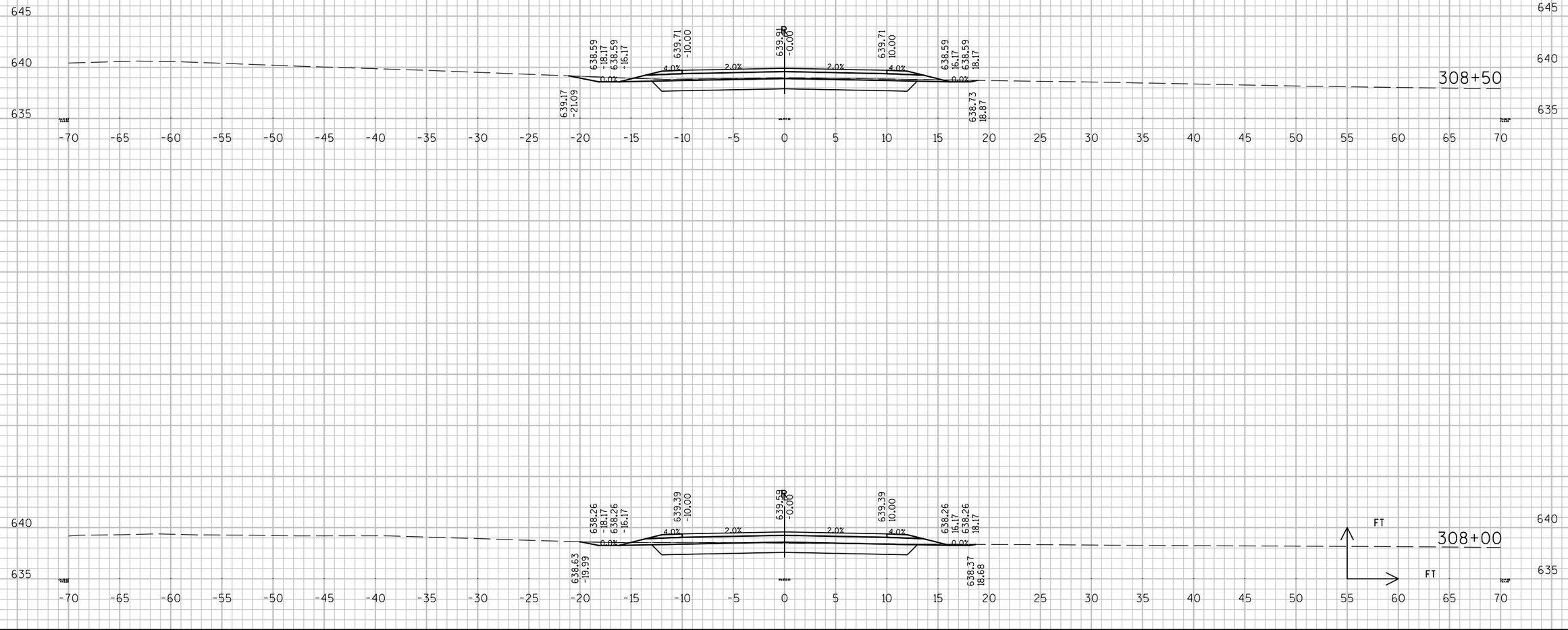
PROJECT NO:5085-00-70	HWY: WEST LANDING ROAD	COUNTY:LA CROSSE	CROSS SECTIONS:	SHEET 190	E

FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 9/11/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



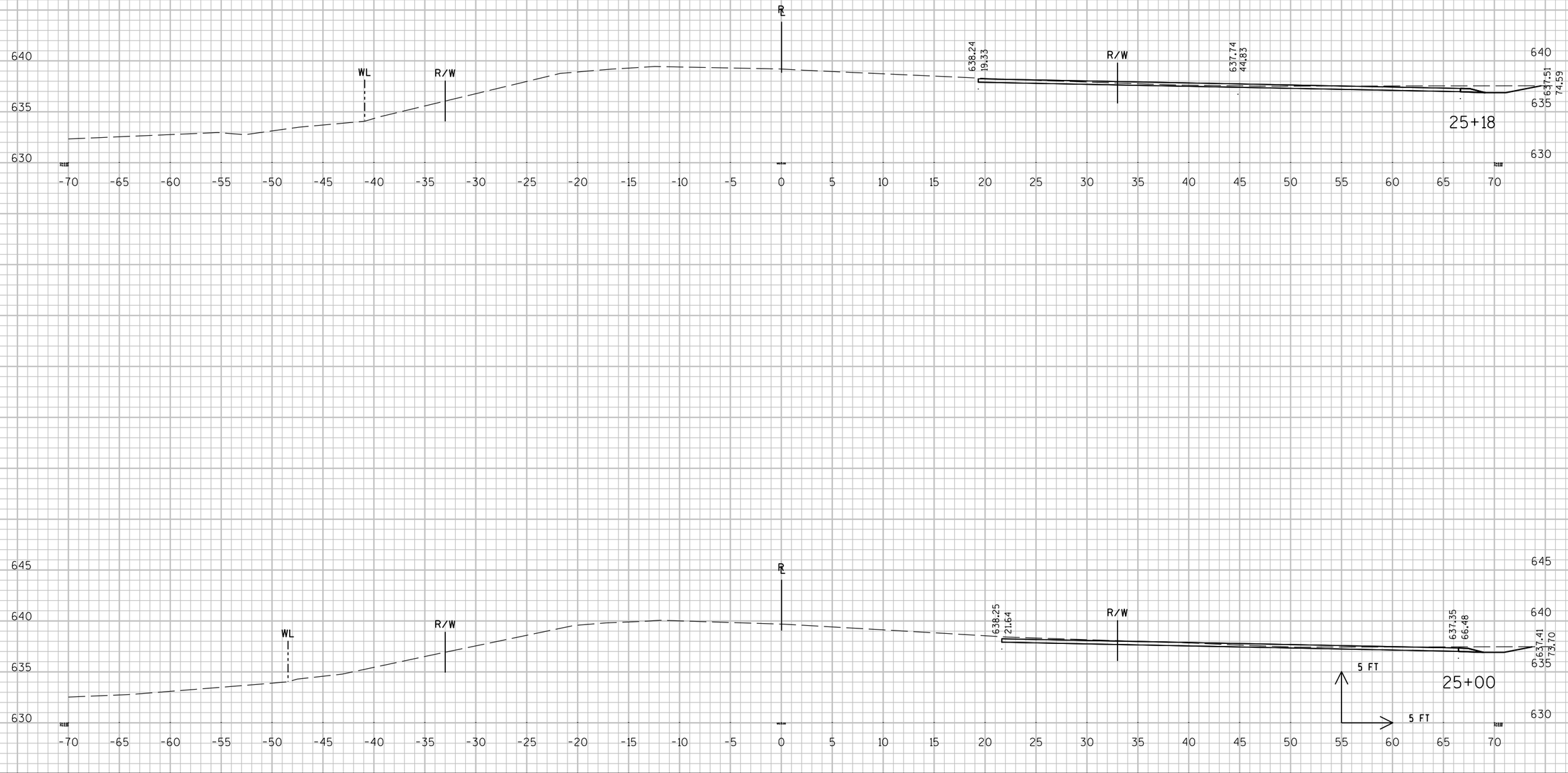
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PROJECT NO:5085-00-70	HWY:WEST LANDING ROAD	COUNTY:LA CROSSE	CROSS SECTIONS:	SHEET 191	E

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FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 9/11/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

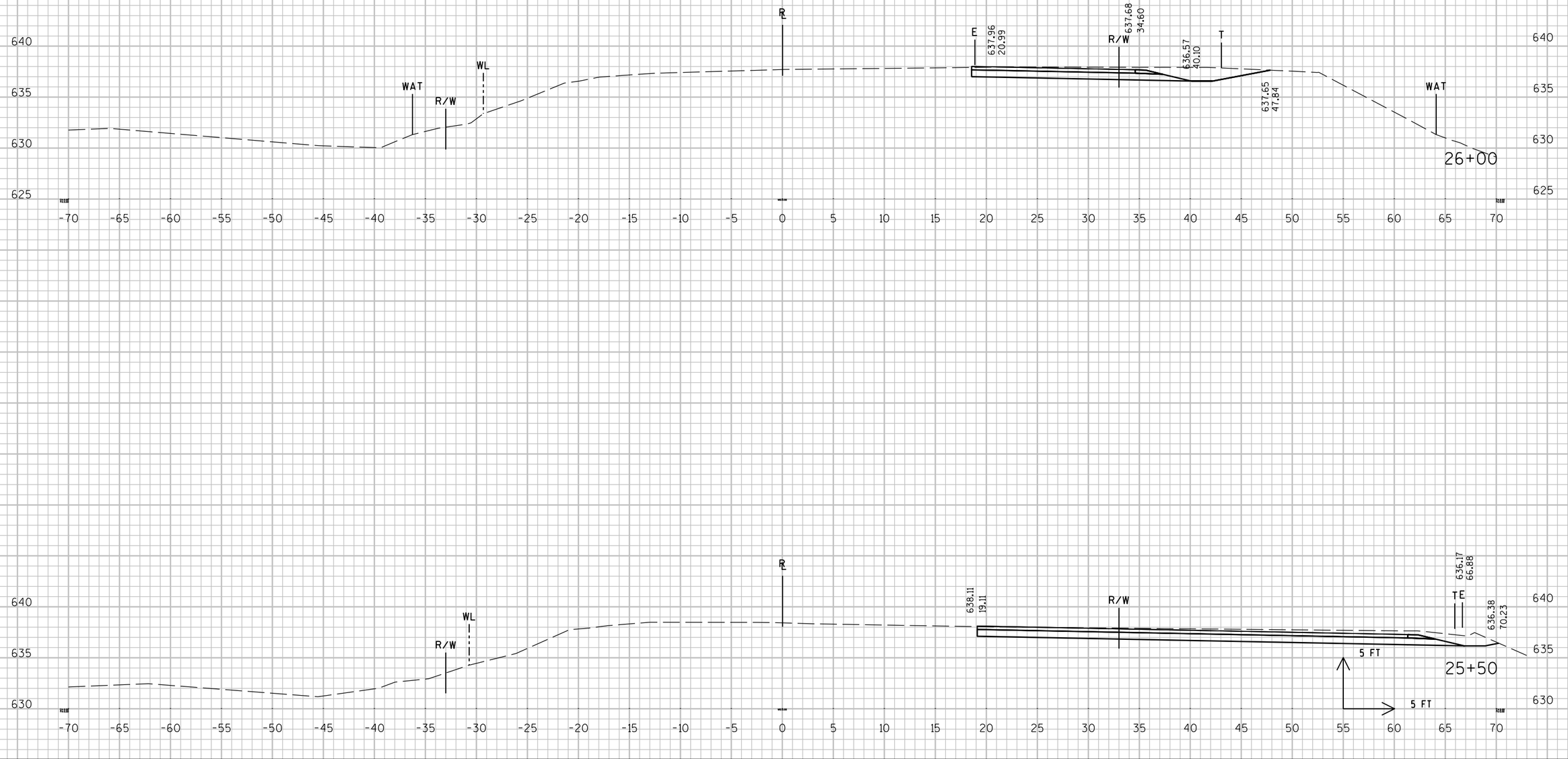


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PROJECT NO: 5085-00-70	HWY: CTH GI BRIDGE LANDING	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 192	E

FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 9/11/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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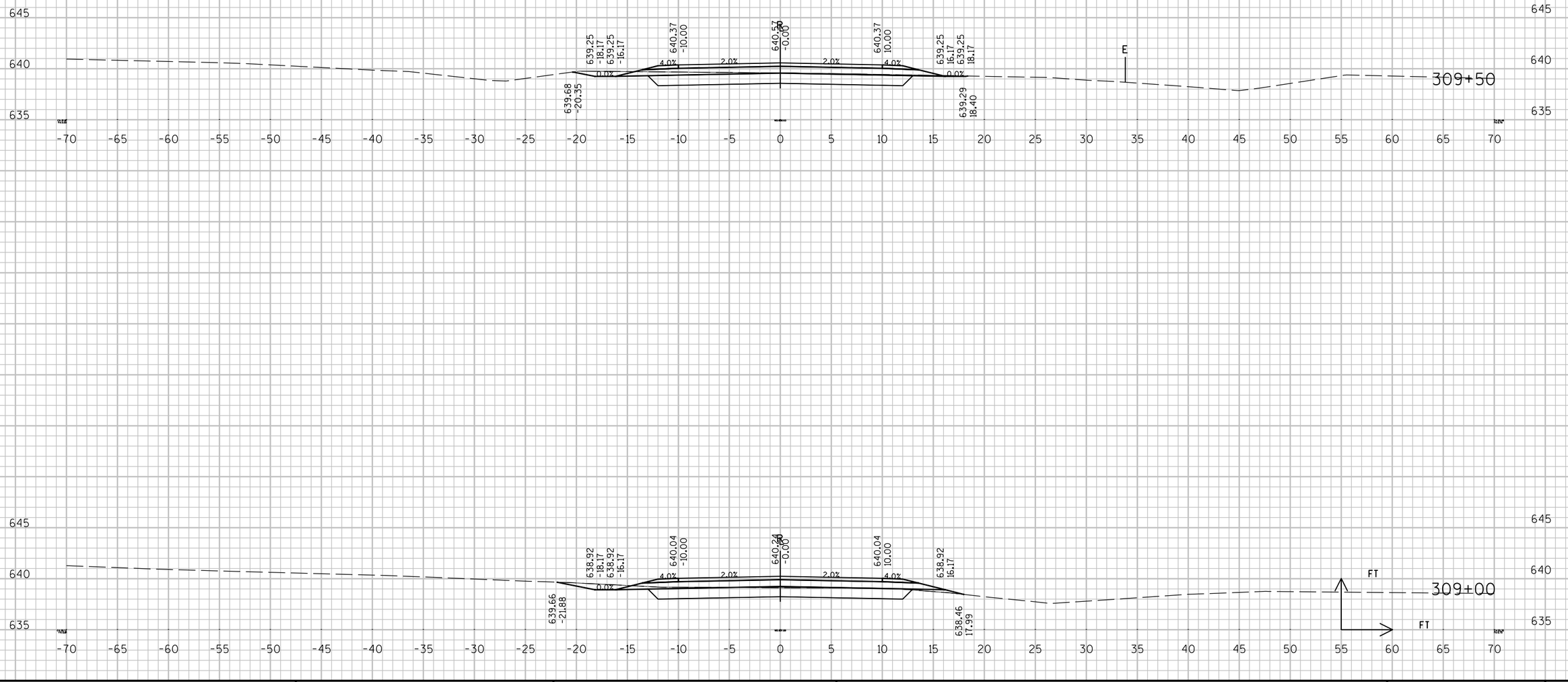
PROJECT NO: 5085-00-70	HWY: CTH GI BRIDGE LANDING	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 193	E

FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 9/11/2018

PLOT BY : $$...plotuser...$$

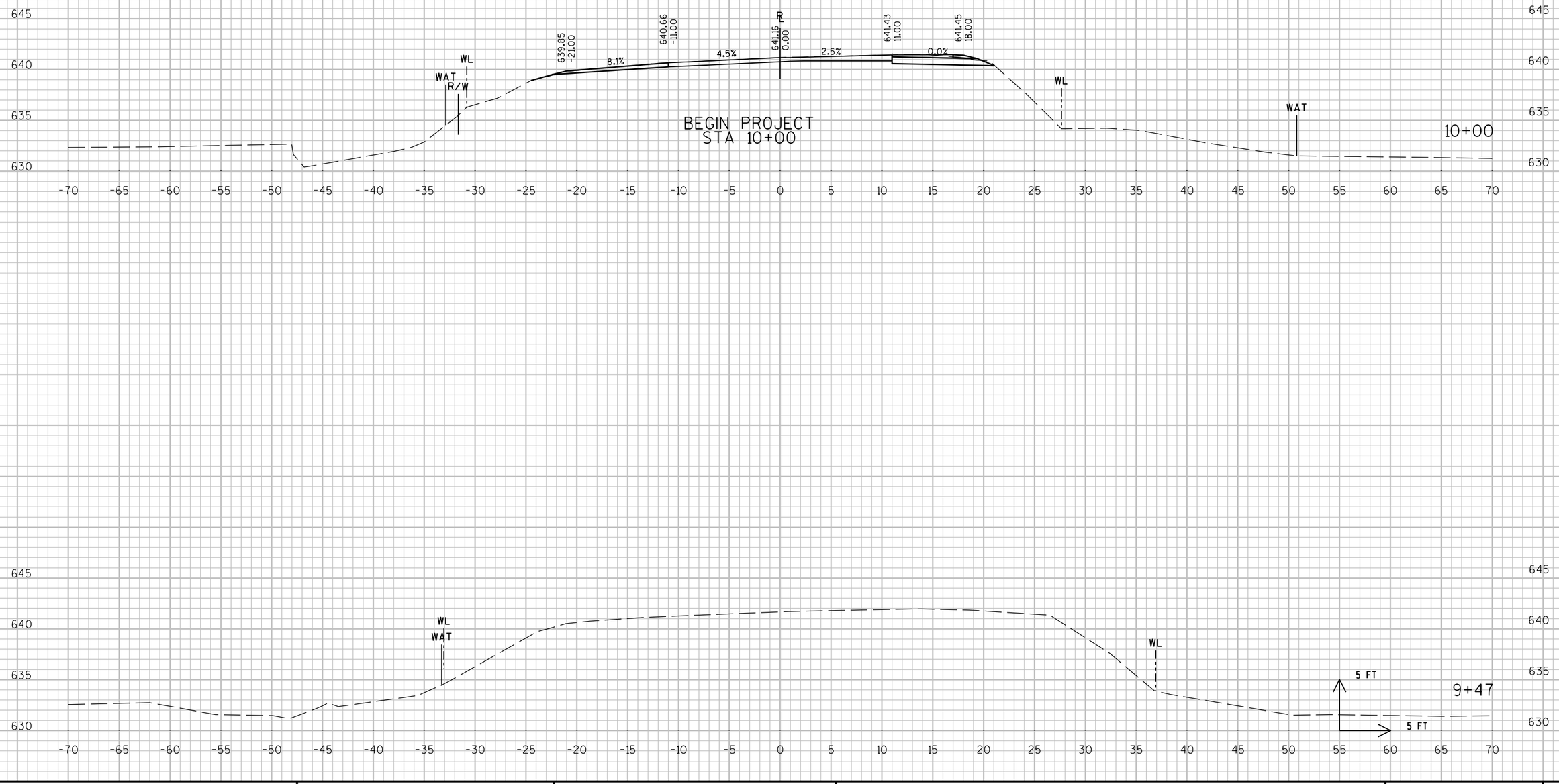
WISDOT/CADDS SHEET 21



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PROJECT NO:5085-00-70	HWY: WEST LANDING ROAD	COUNTY:LA CROSSE	CROSS SECTIONS:	SHEET 194	E



9

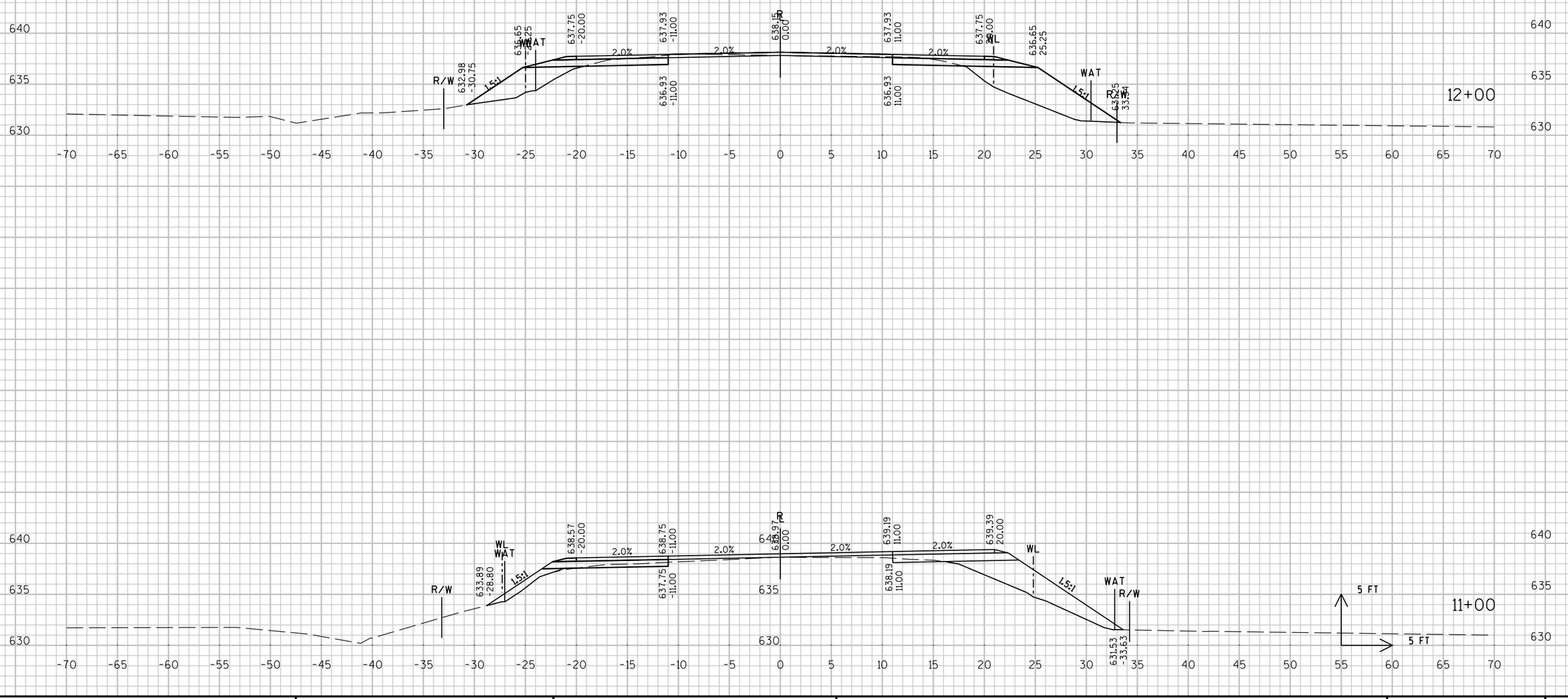
PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 195	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



9

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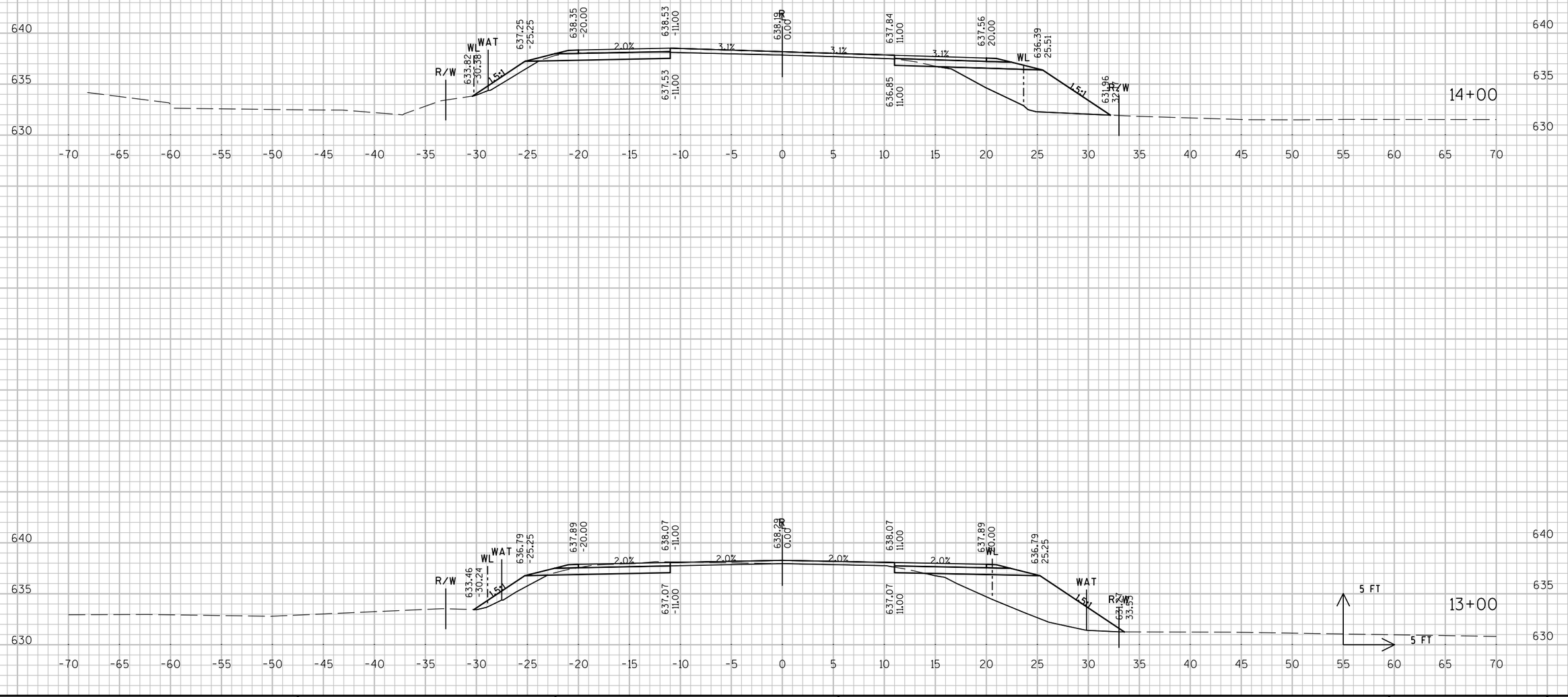
PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 196	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

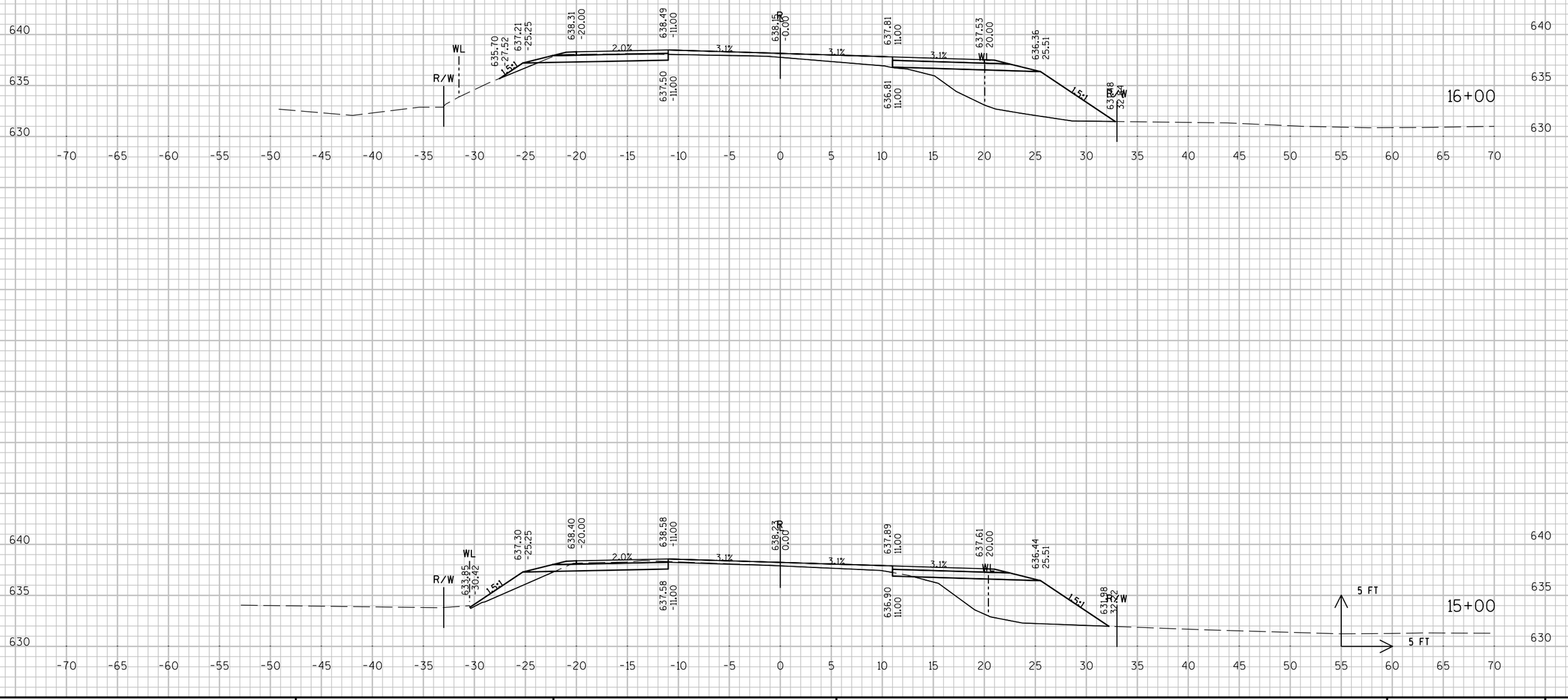


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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 197	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 3/28/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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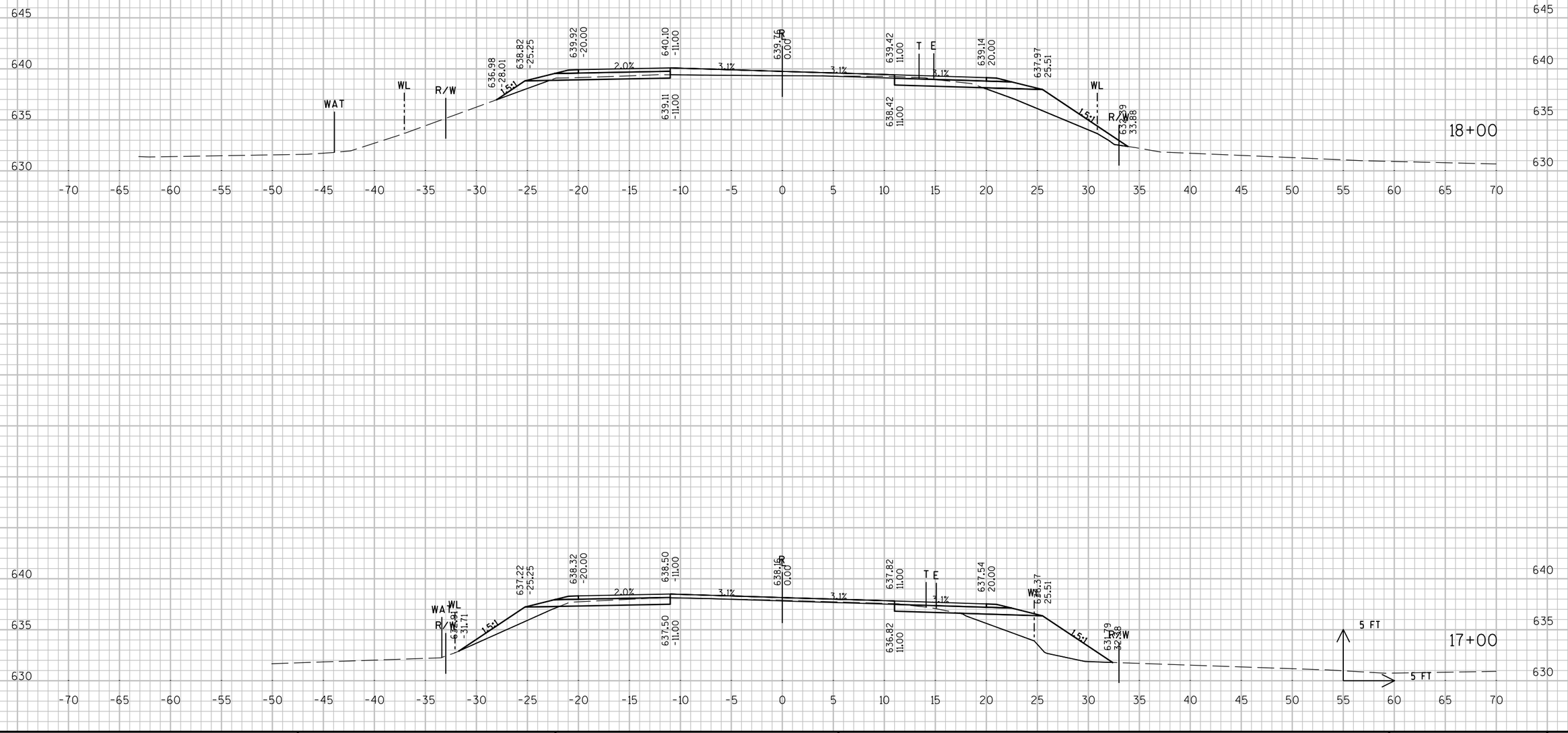
PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 198	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

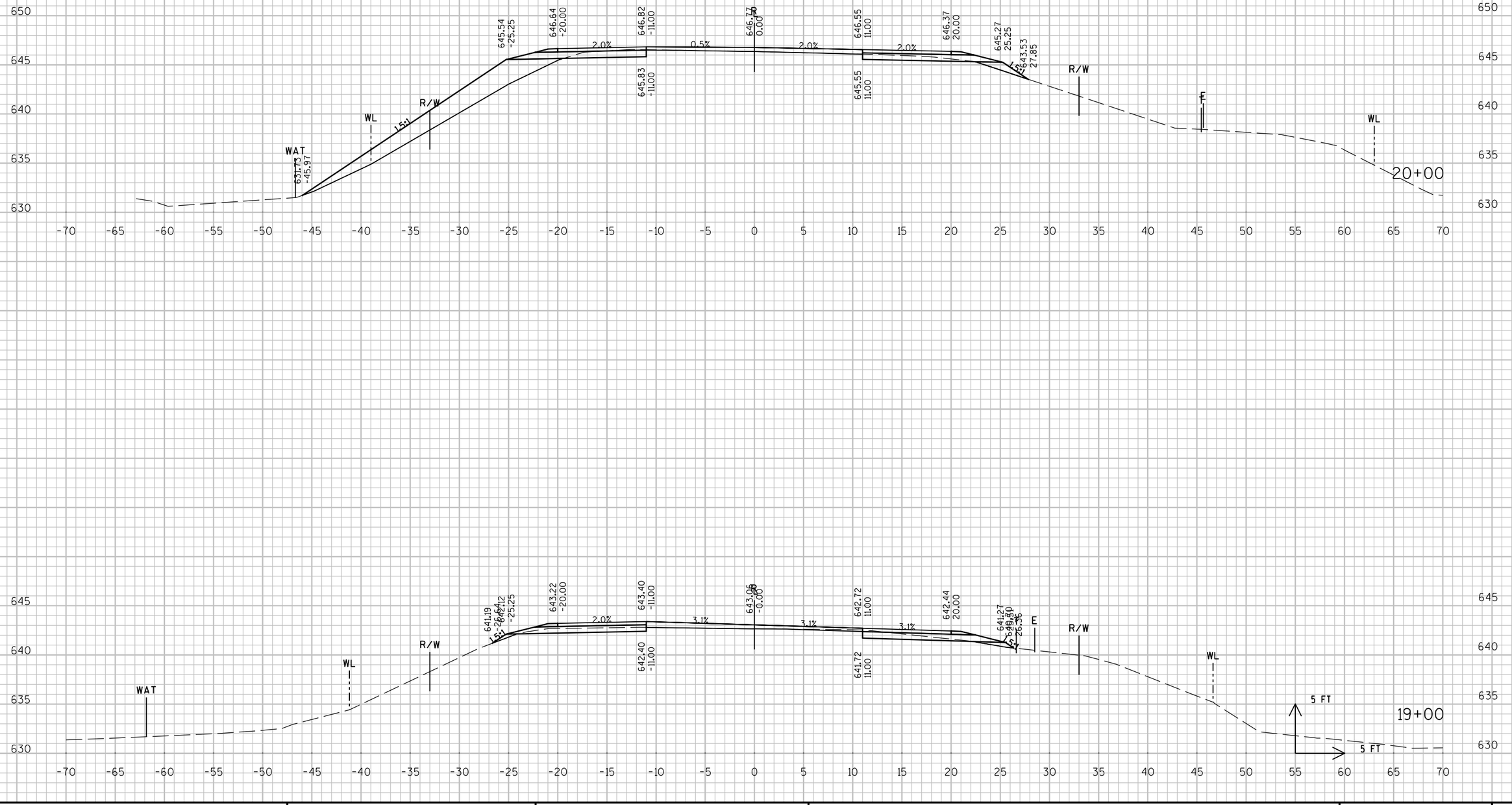


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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 199	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 3/28/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 200	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 3/28/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

EXCEPTION TO NET CENTERLINE LENGTH
STA 20+60.76 TO STA 22+90.00

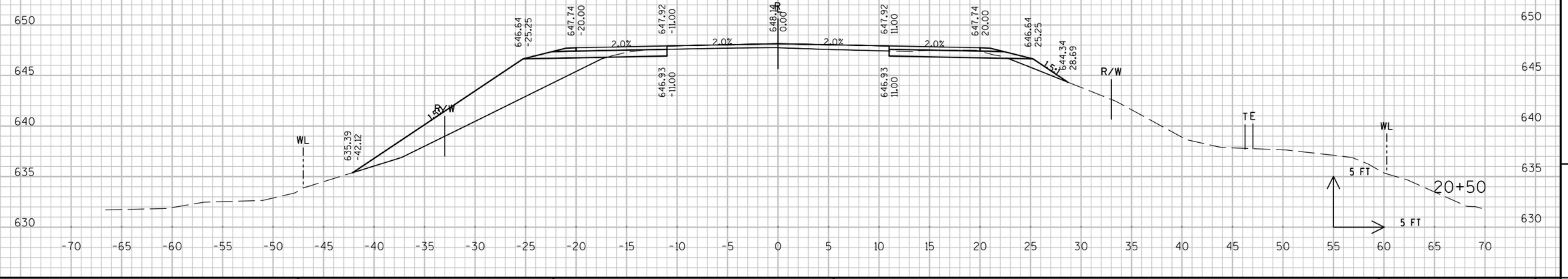
R/W

R/W

21+00

650 645 640 635 630 625 620

-70 -65 -60 -55 -50 -45 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70



9 9

PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 201	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 3/28/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

EXCEPTION TO NET CENTERLINE LENGTH
STA 20+60.76 TO STA 22+90.00



9

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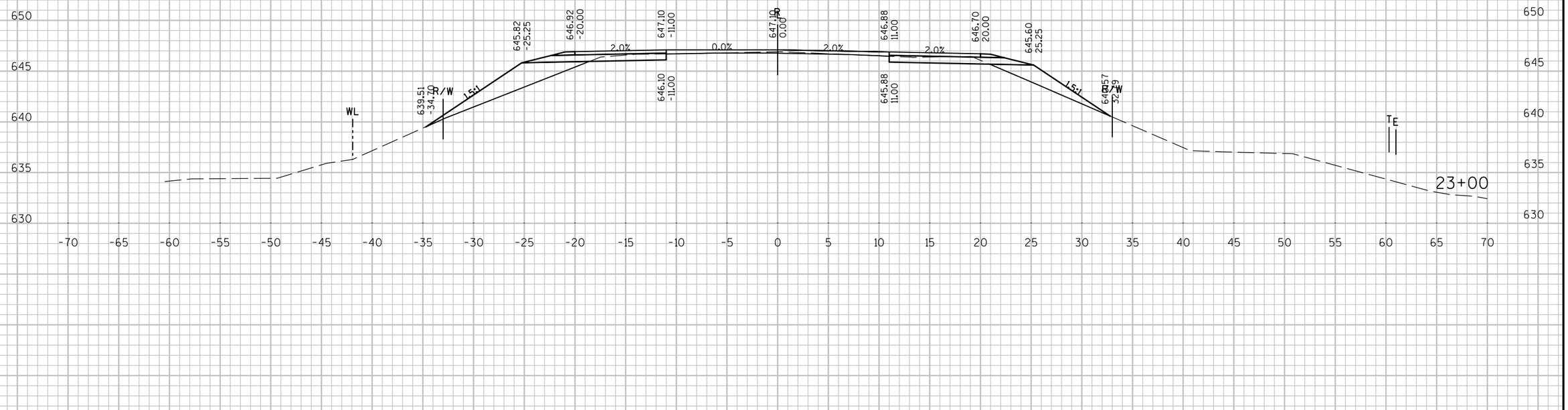
PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 202	E

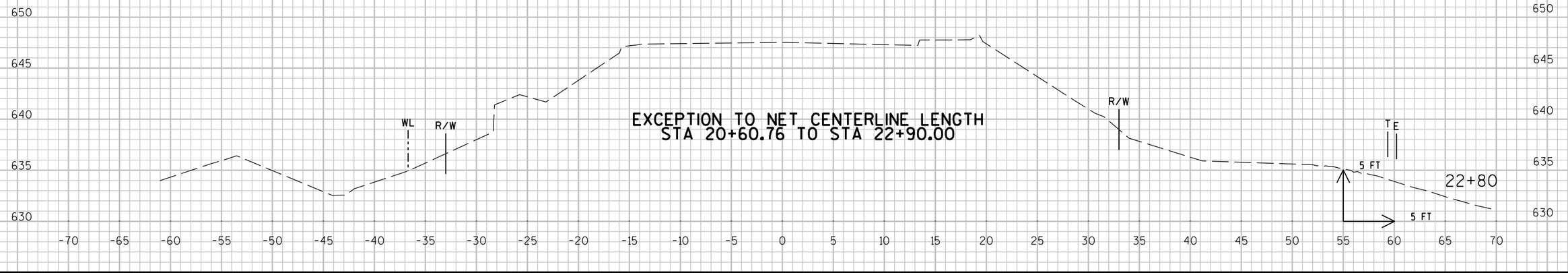
FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21





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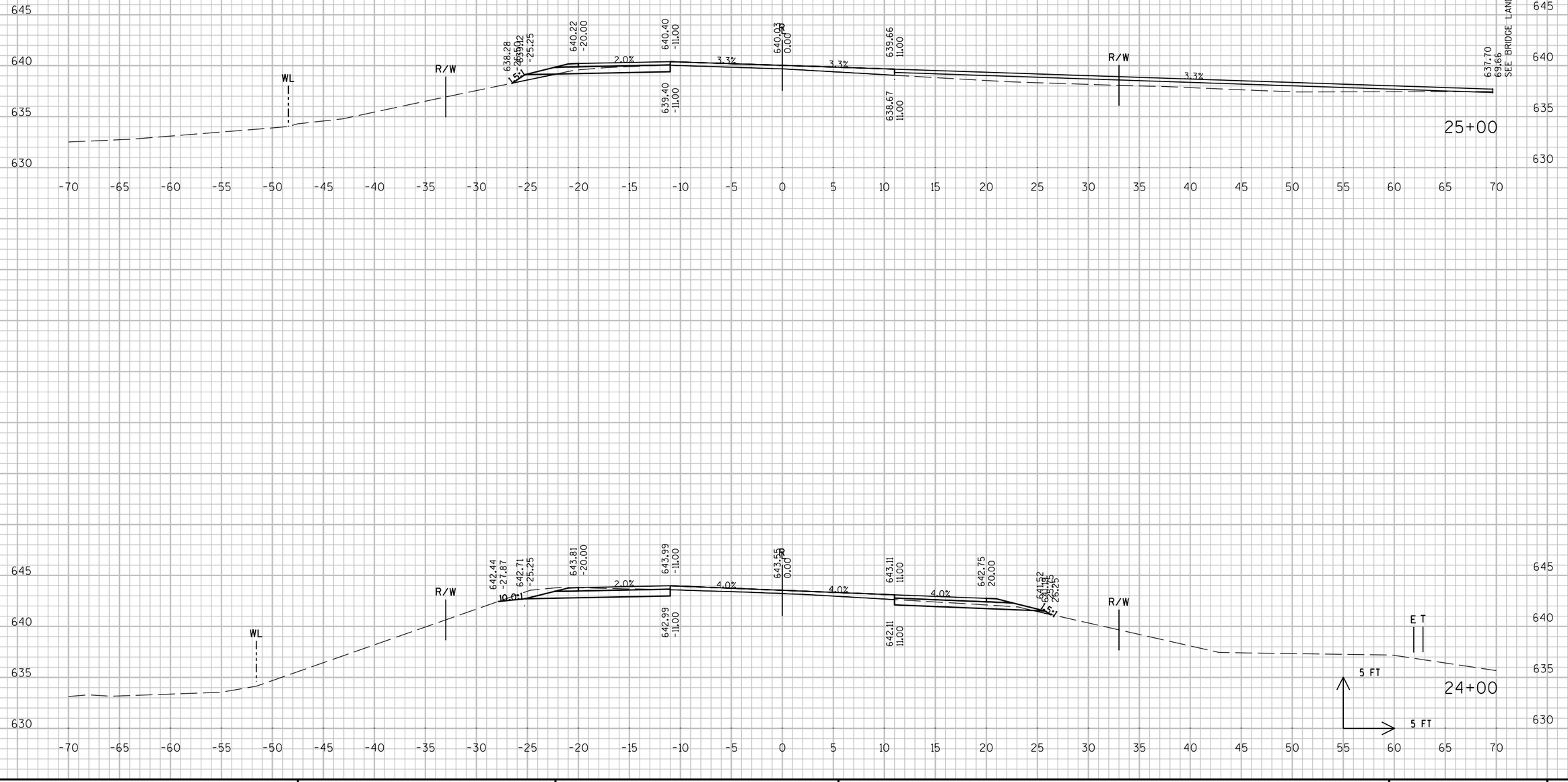
PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 203	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



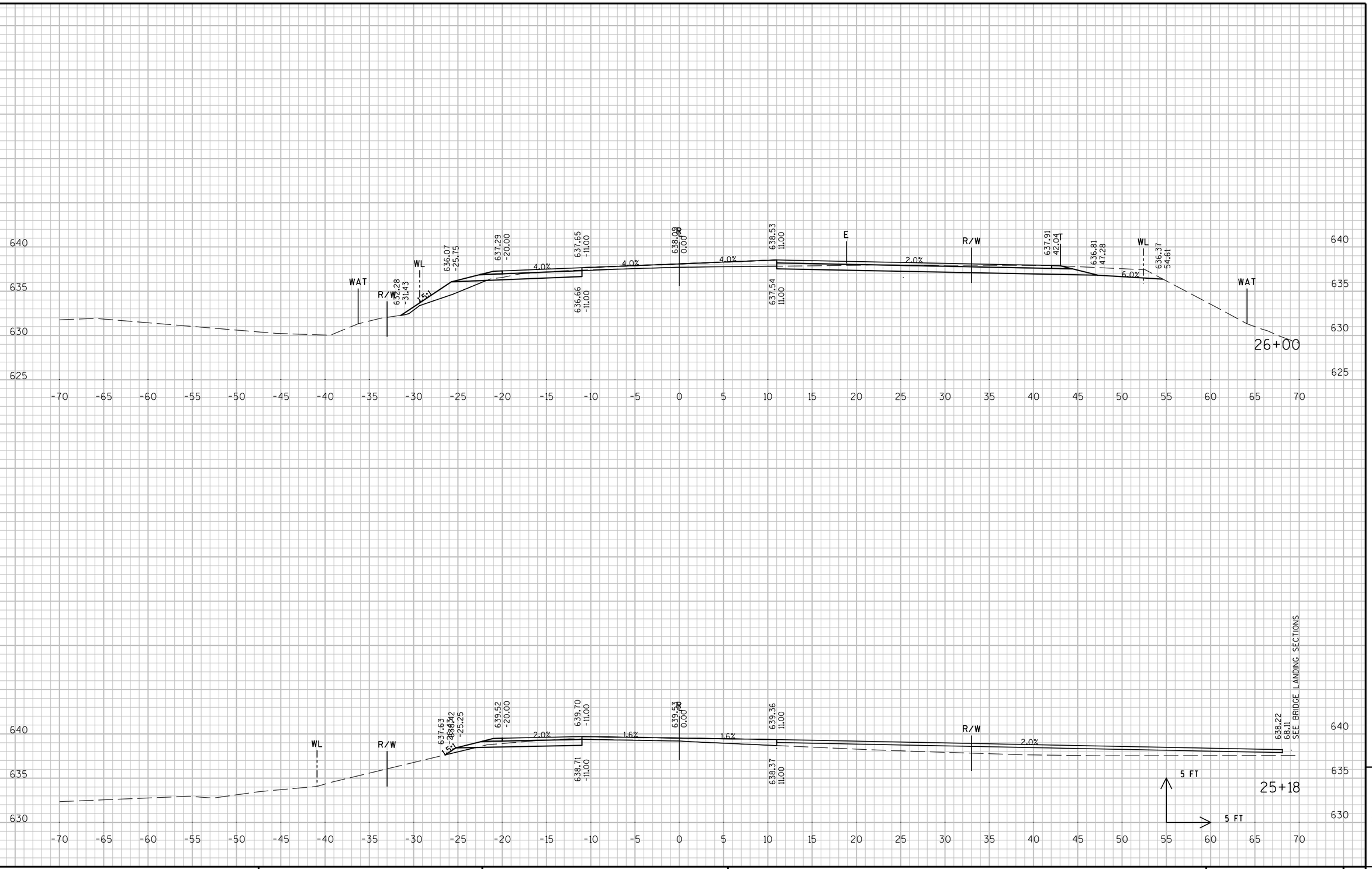
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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 204	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 3/28/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



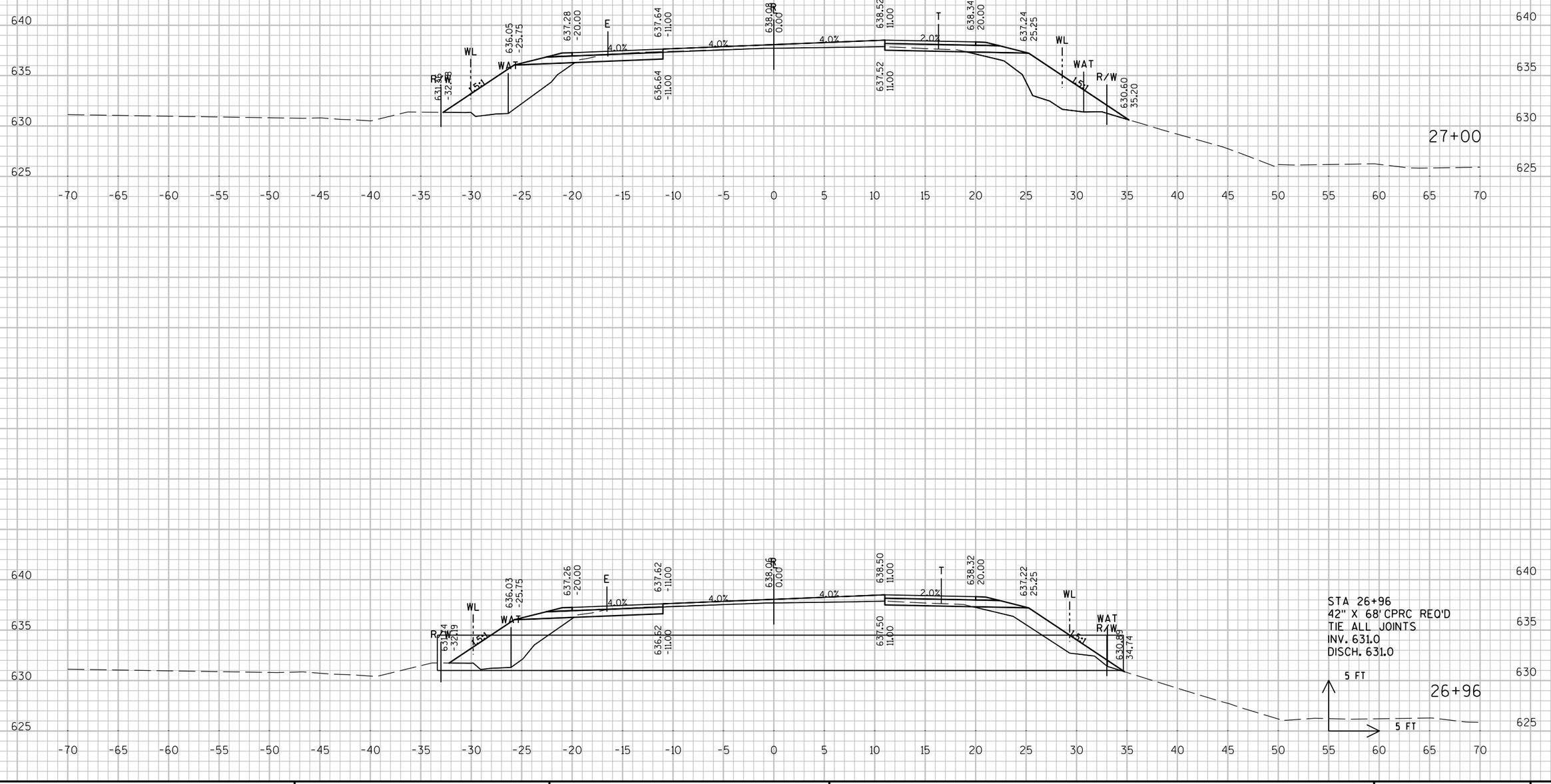
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PROJECT NO:5085-00-70	HWY:CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 205	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 3/28/2018 PLOT BY : $$...plotuser...$$

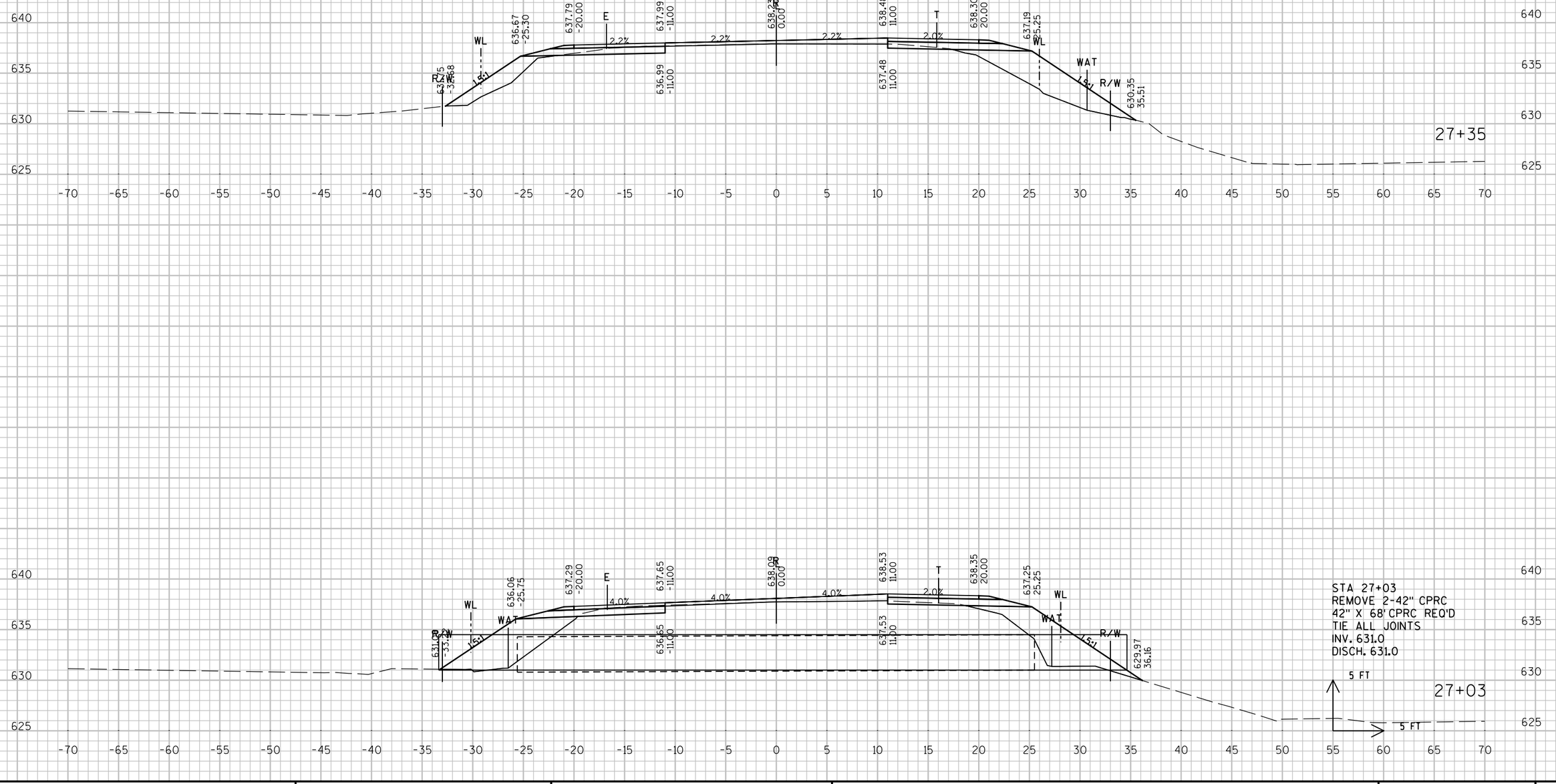
WISDOT/CADDS SHEET 21



PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 206	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 3/28/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

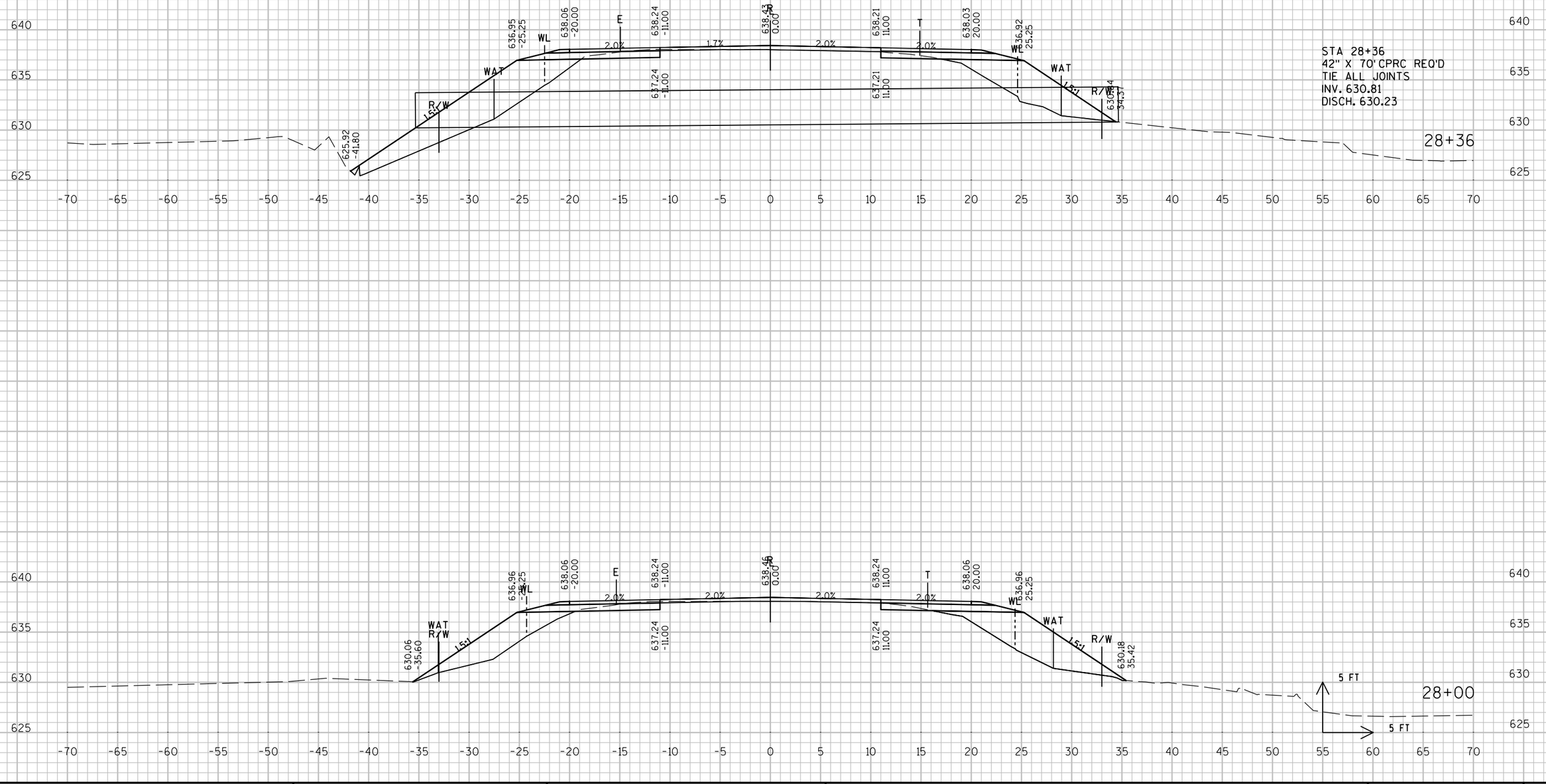


STA 27+03
REMOVE 2-42" CPRC
42" X 68' CPRC REQ'D
TIE ALL JOINTS
INV. 631.0
DISCH. 631.0

PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 207	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn
PLOT DATE : 3/28/2018
PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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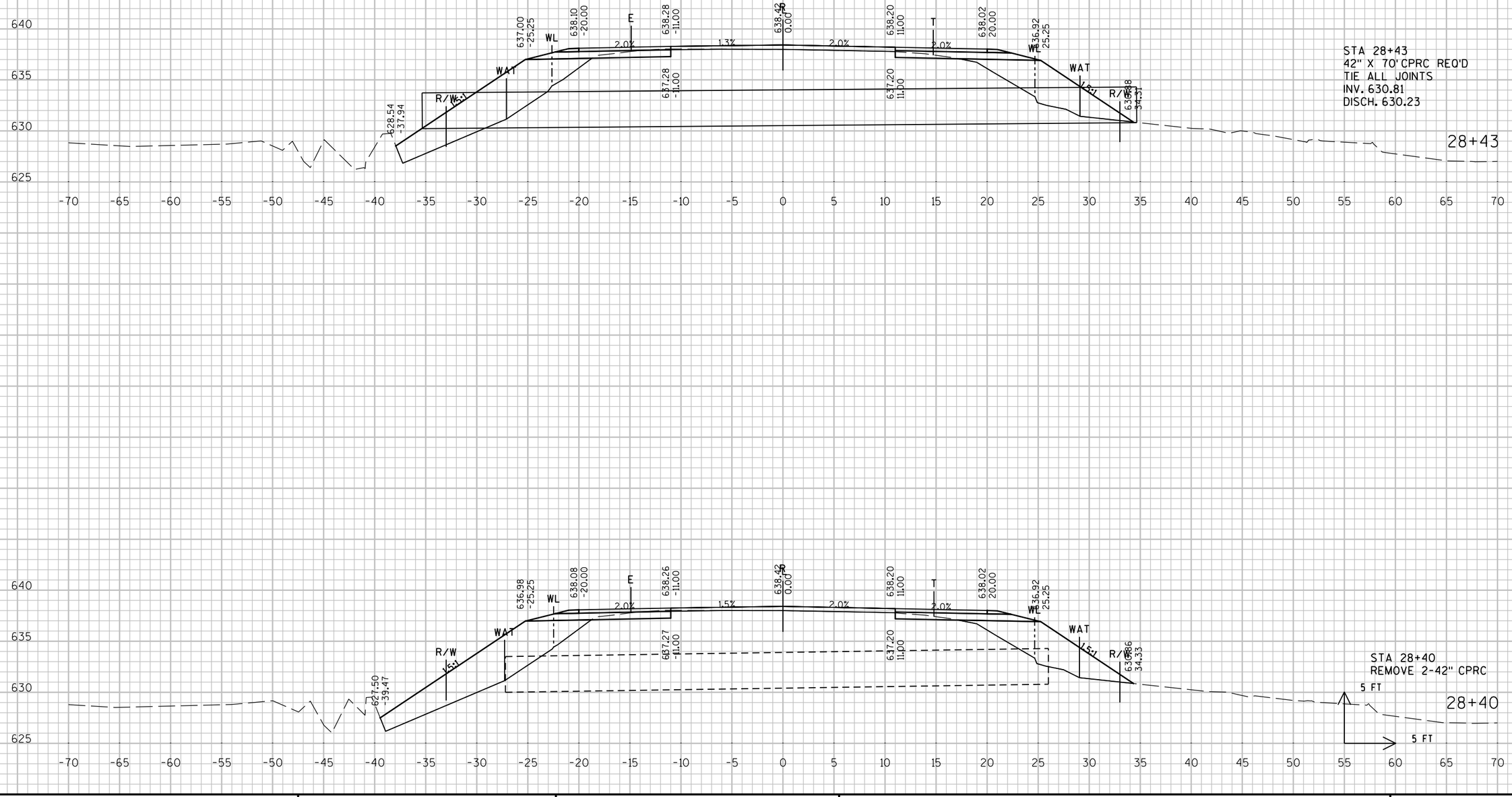
PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 208	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

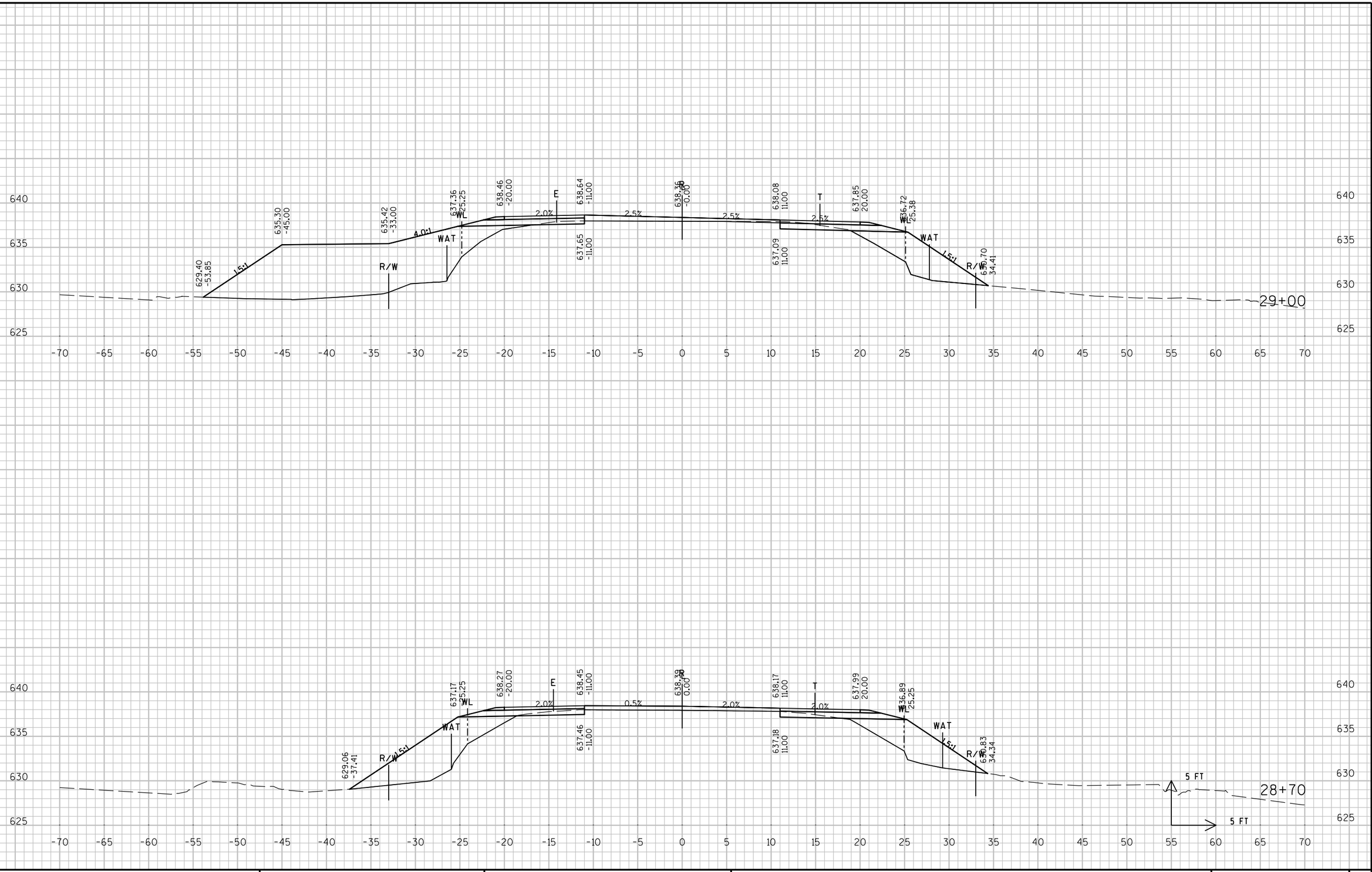
WISDOT/CADDS SHEET 21



PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 209	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 3/28/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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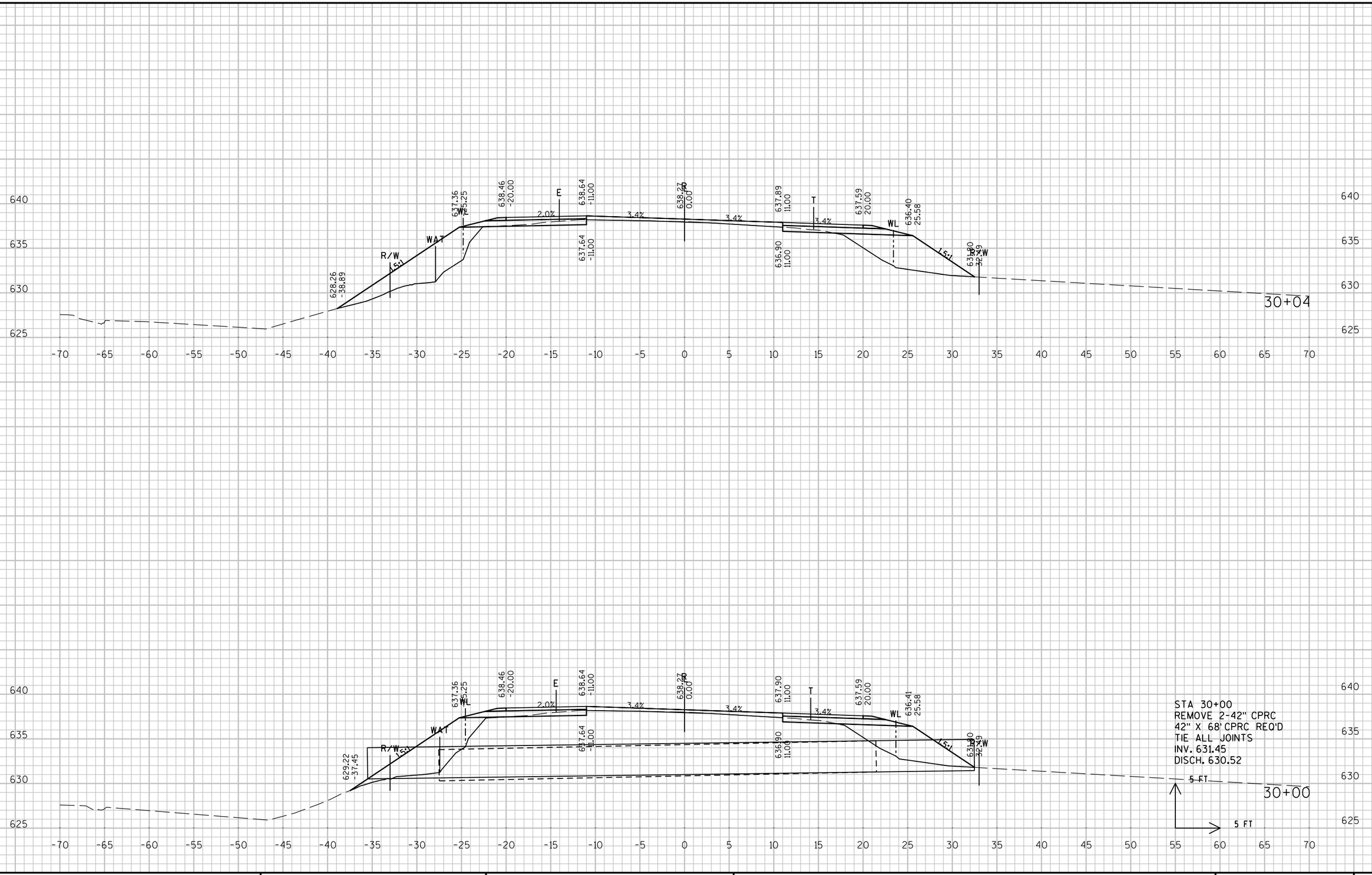
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FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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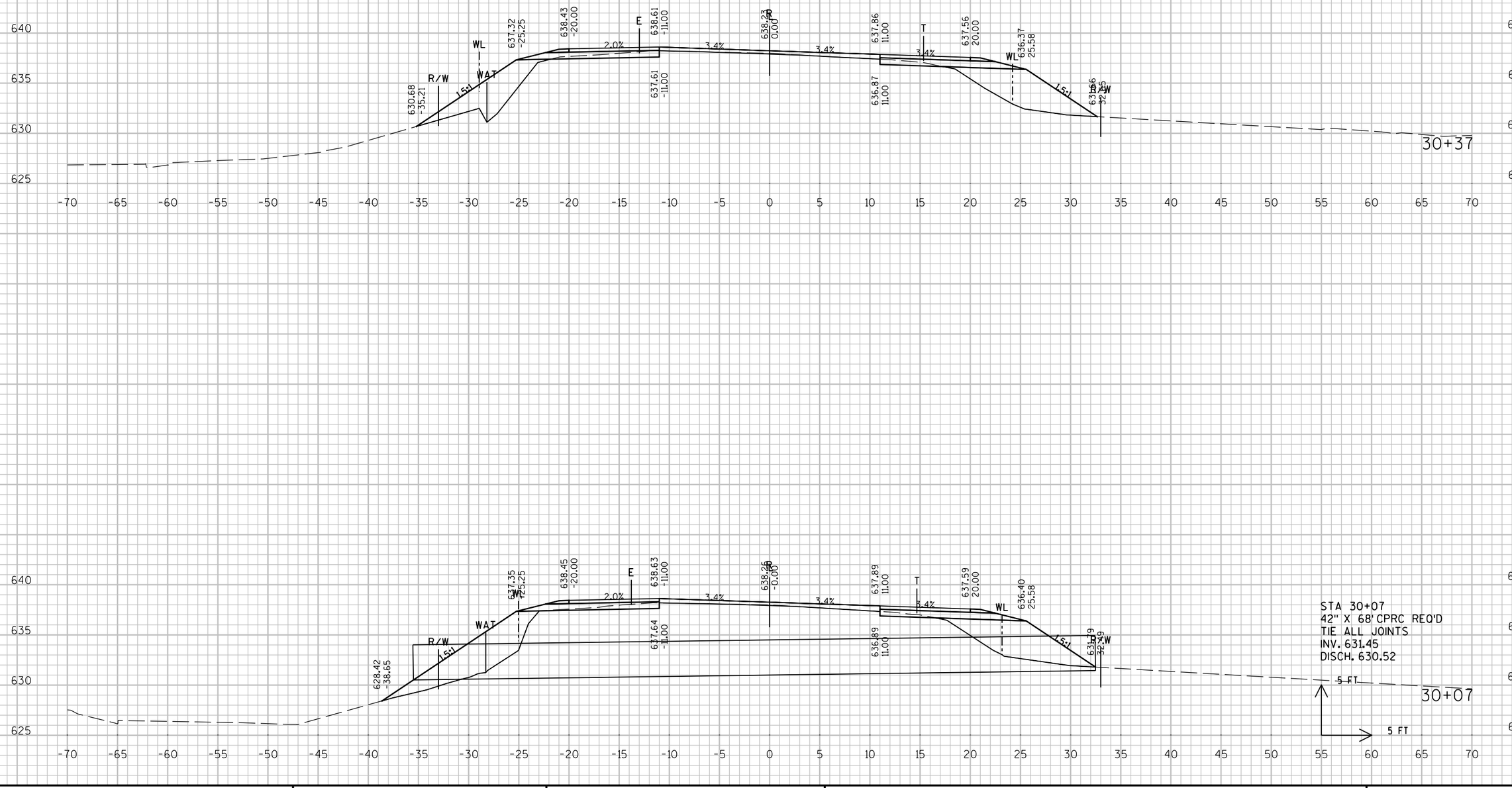
PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 211	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

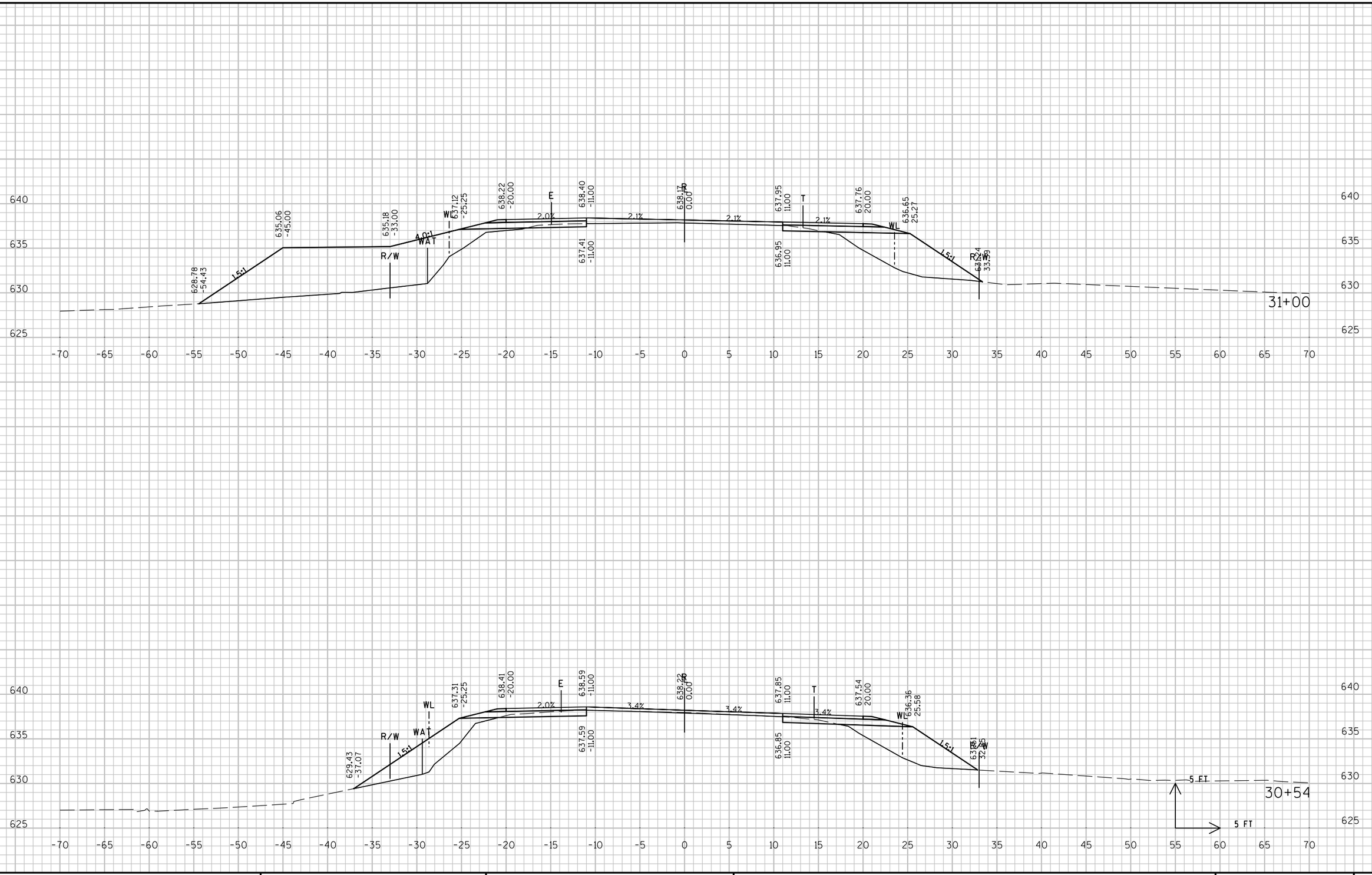
WISDOT/CADDS SHEET 21



PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 212	E

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WISDOT/CADDS SHEET 21

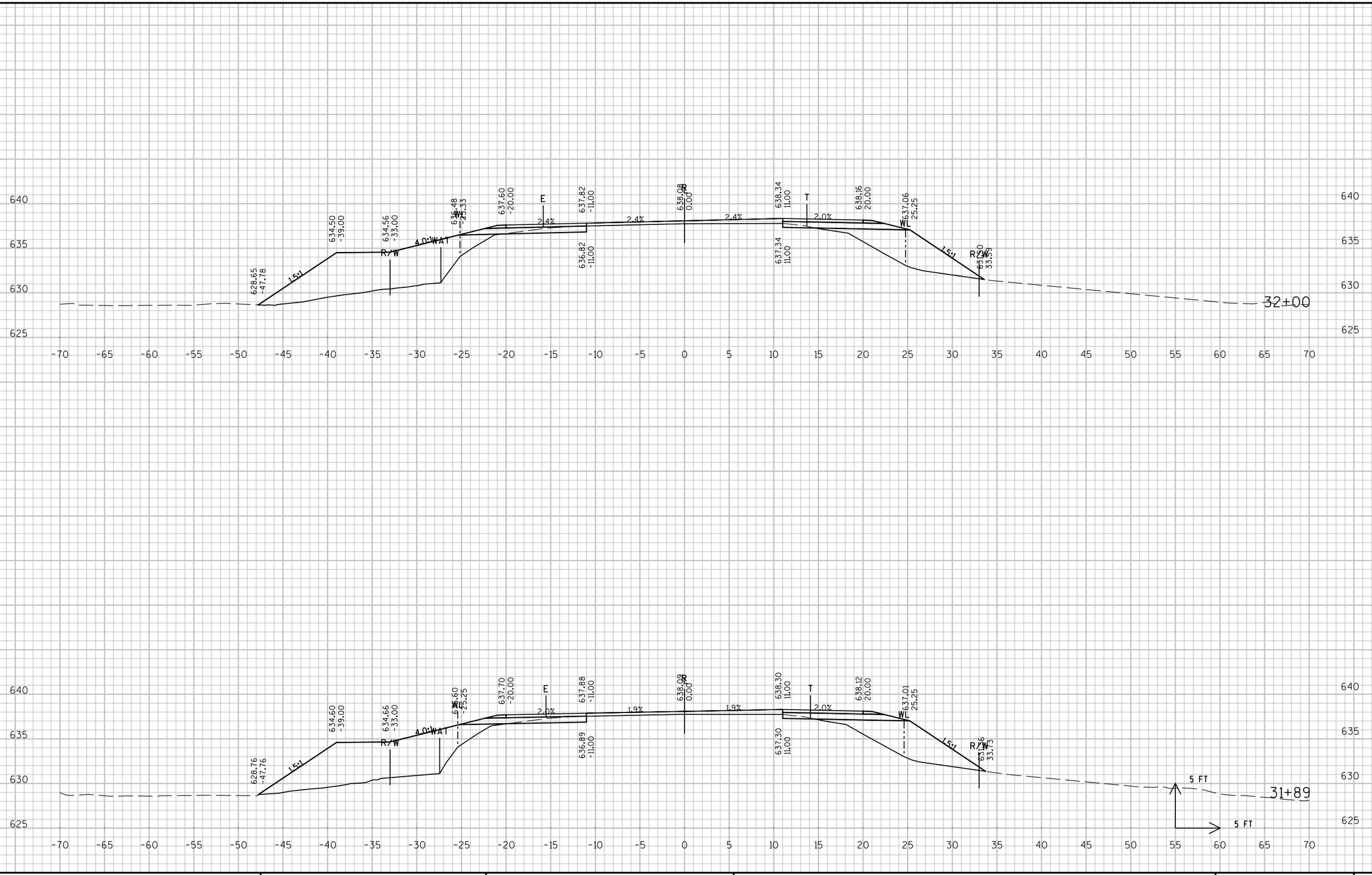


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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 213	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 3/28/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

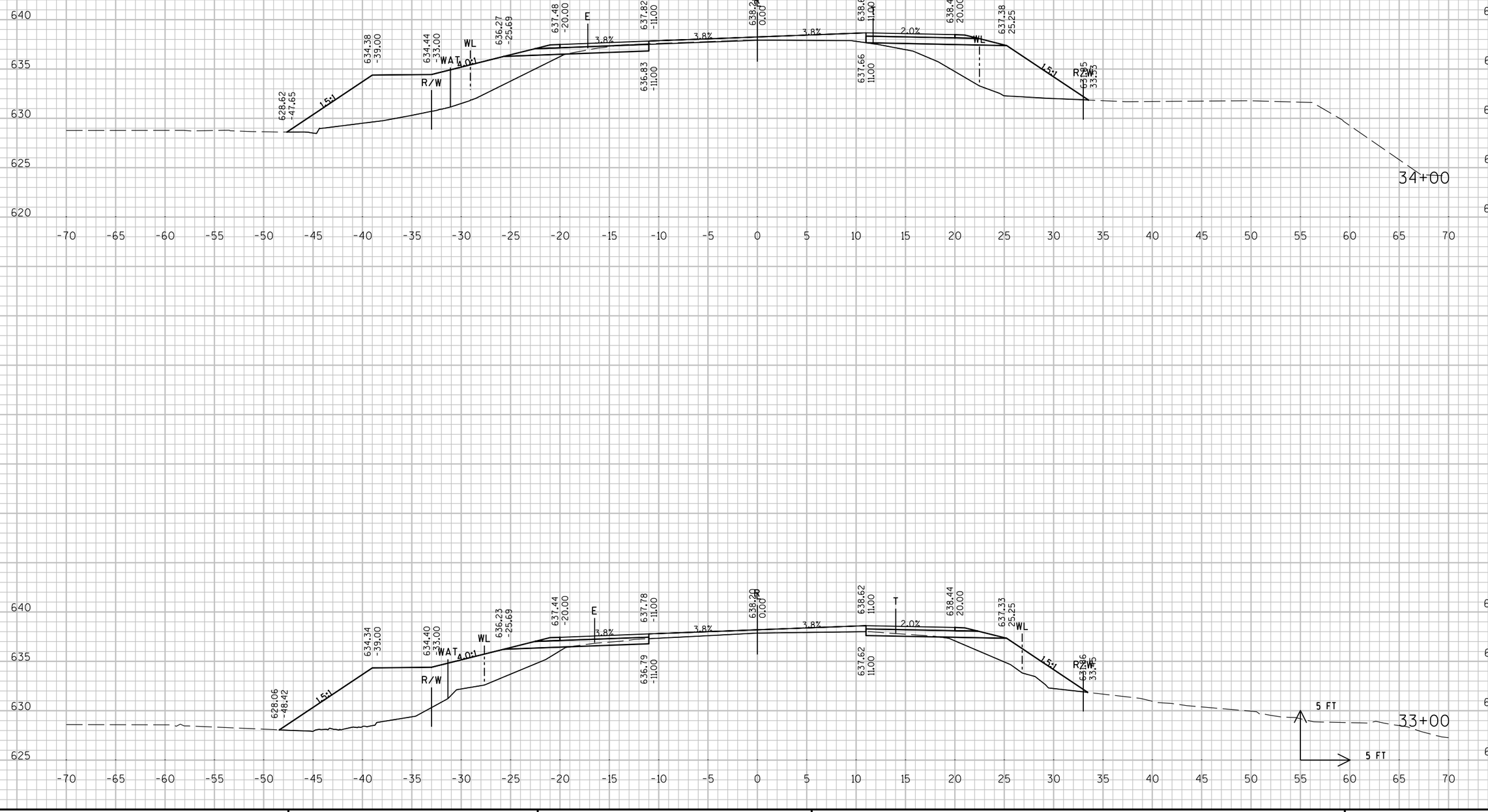


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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 214	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 3/28/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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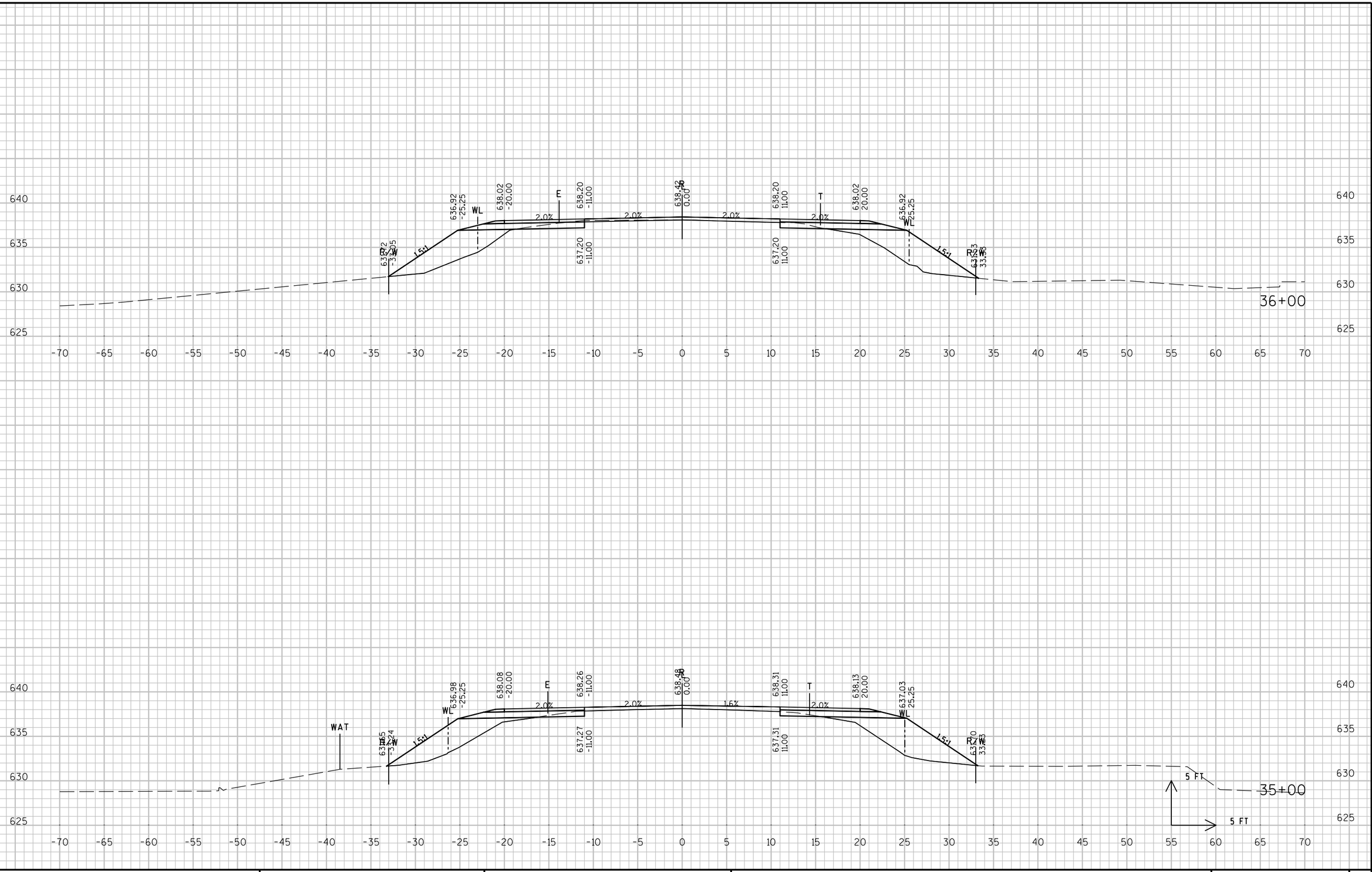
PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 215	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

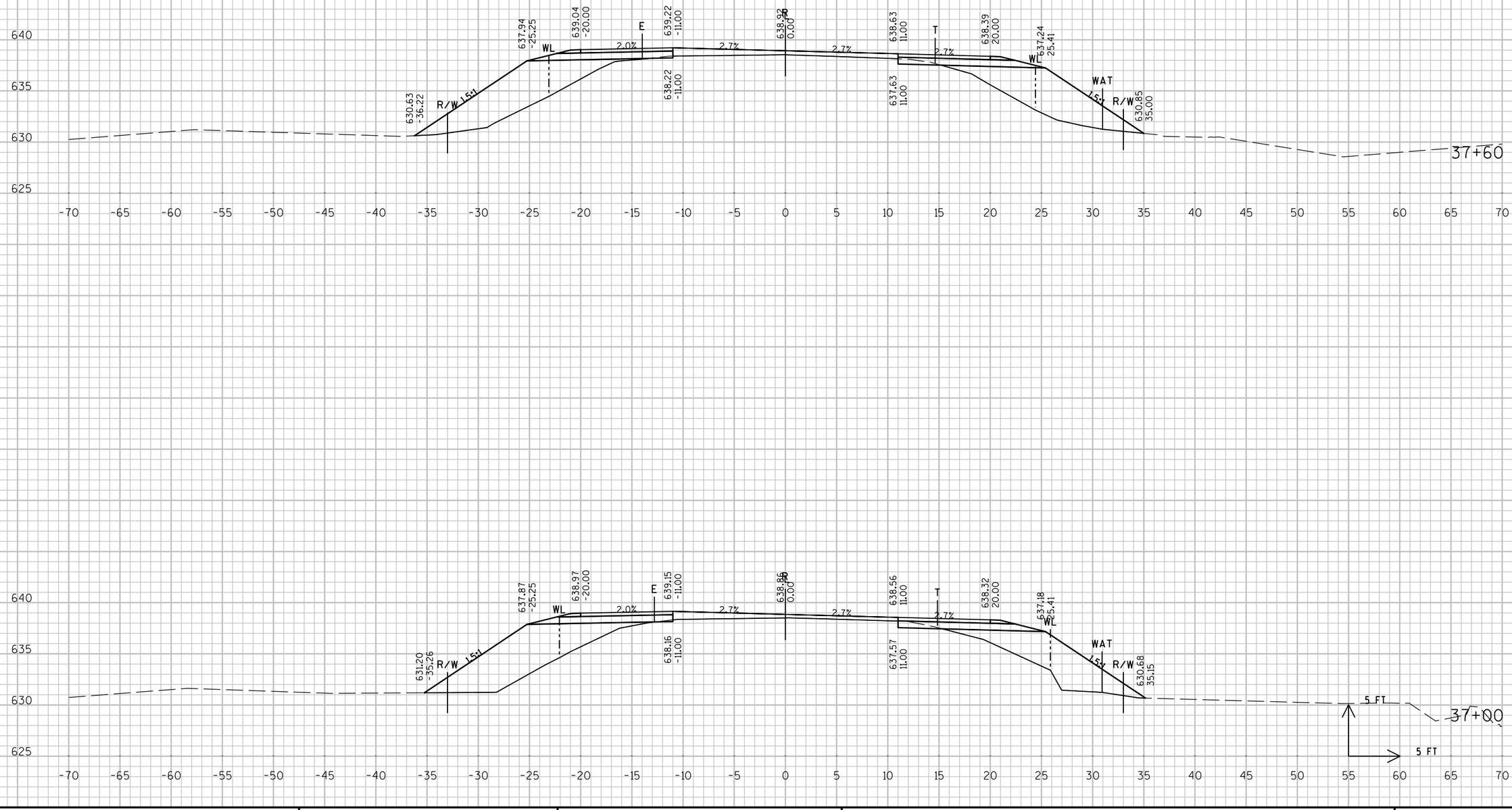


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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 216	E

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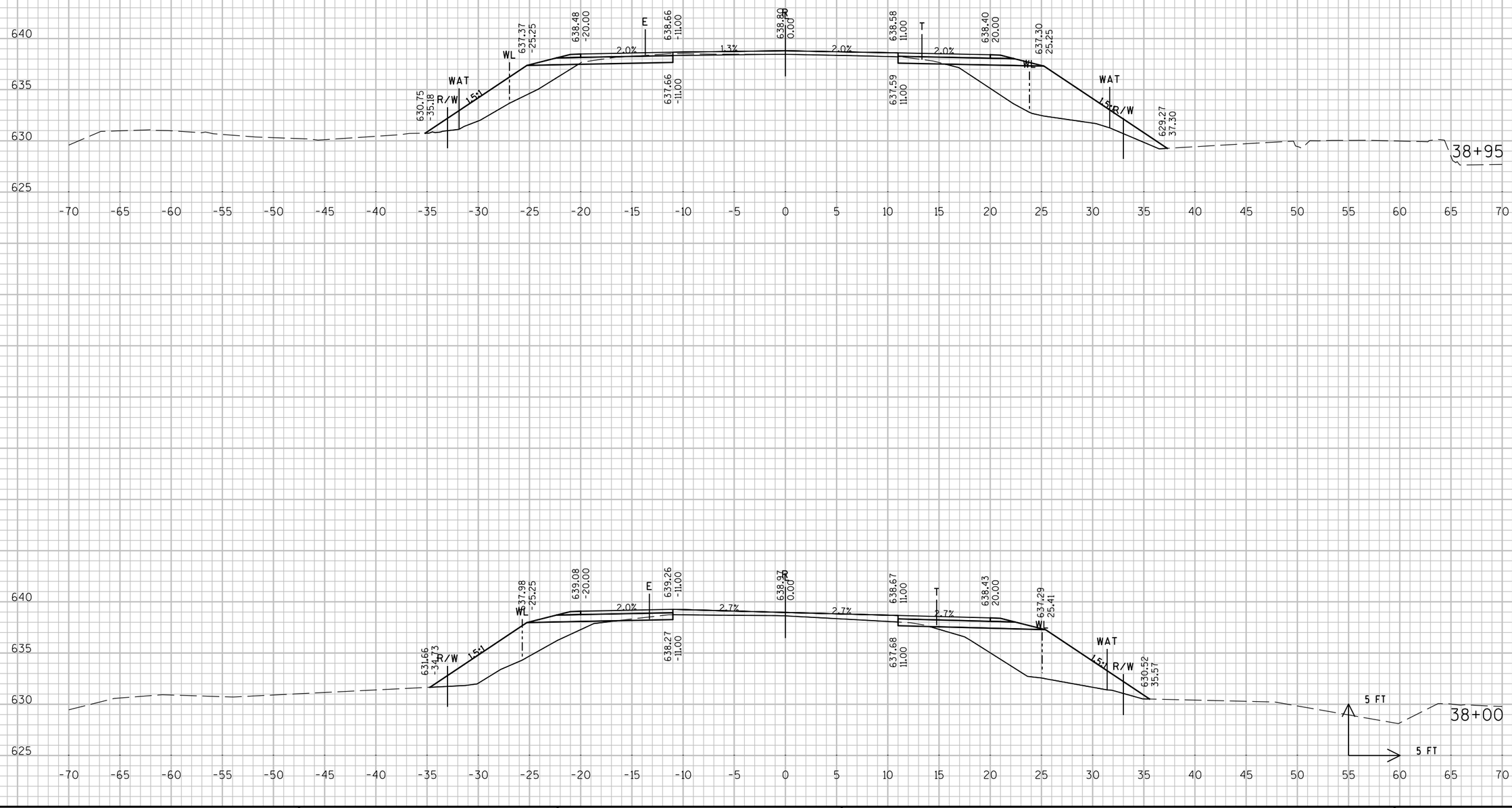
WISDOT/CADDS SHEET 21



PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 217	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 3/28/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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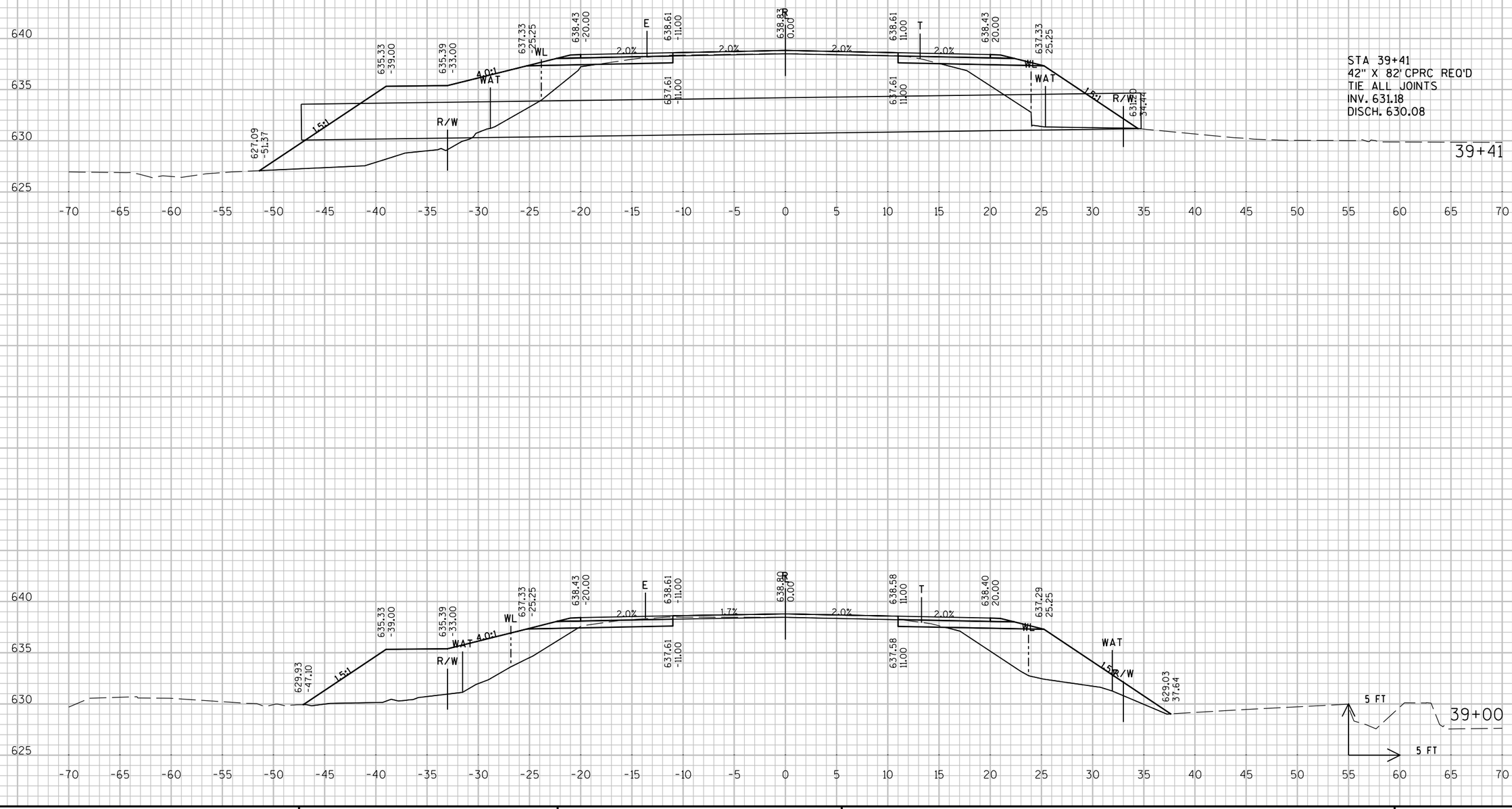
PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 218	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

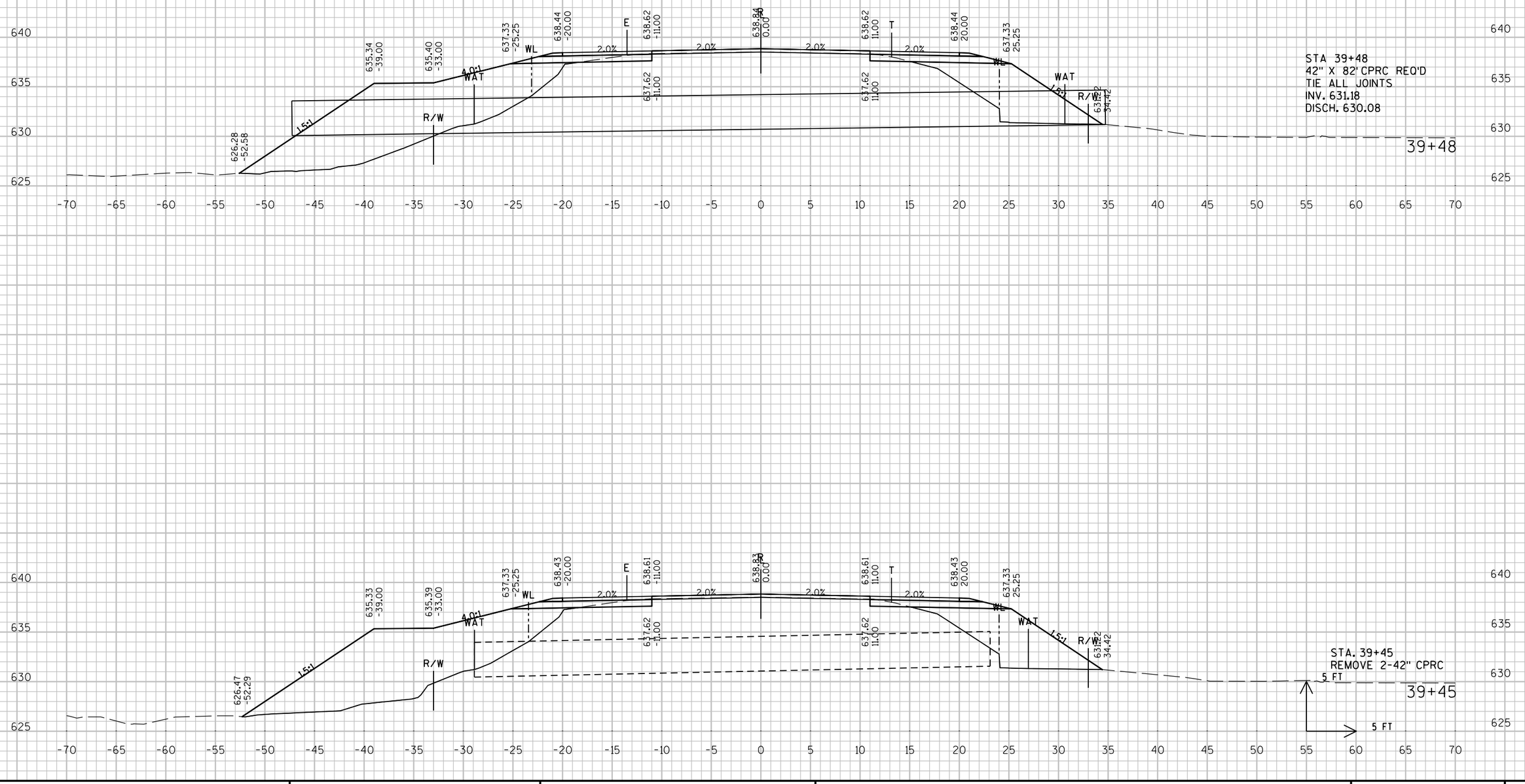


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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 219	E

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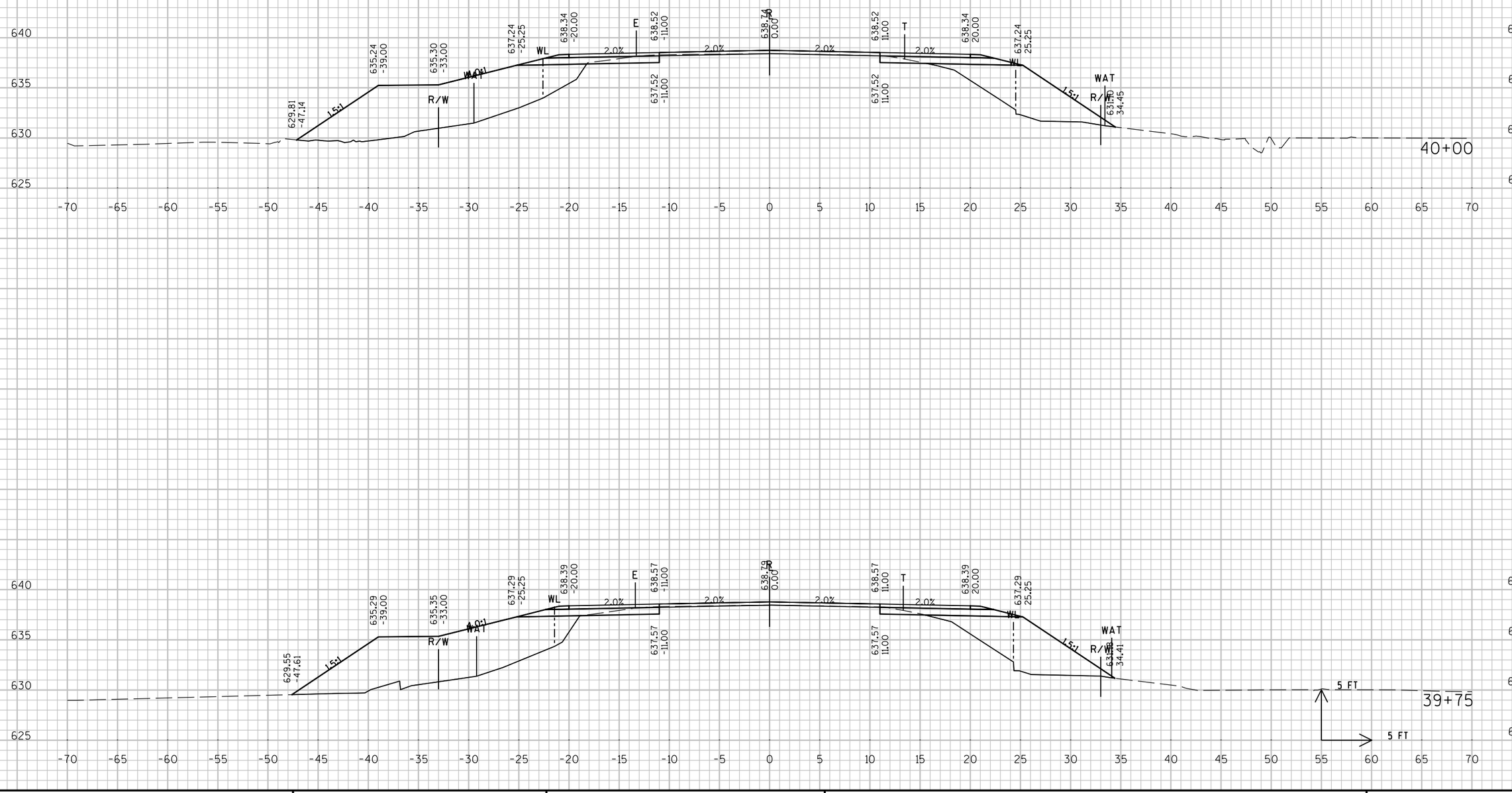
WISDOT/CADDS SHEET 21



PROJECT NO:5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 220	E

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WISDOT/CADDS SHEET 21

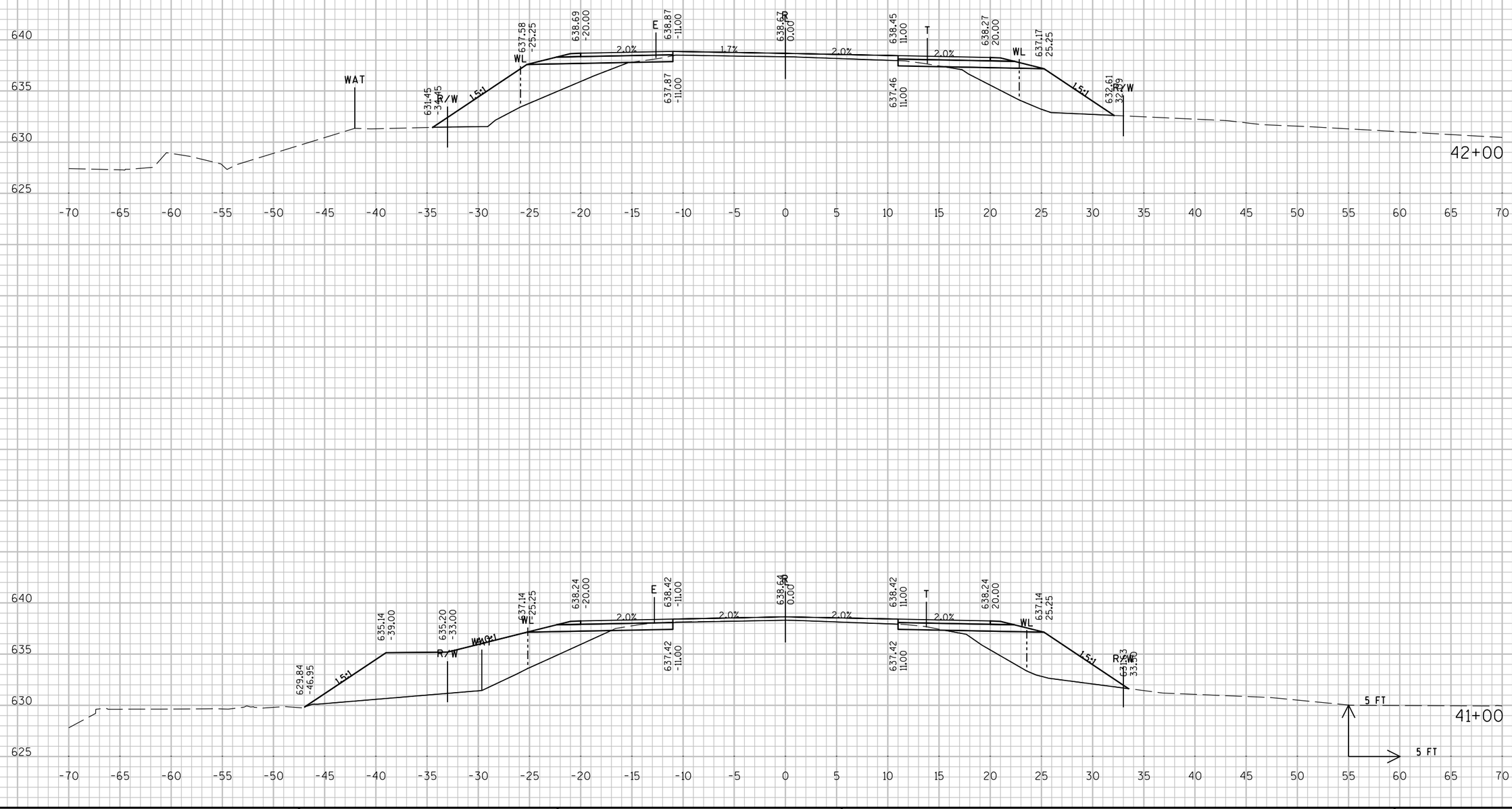


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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 221	E

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WISDOT/CADDS SHEET 21



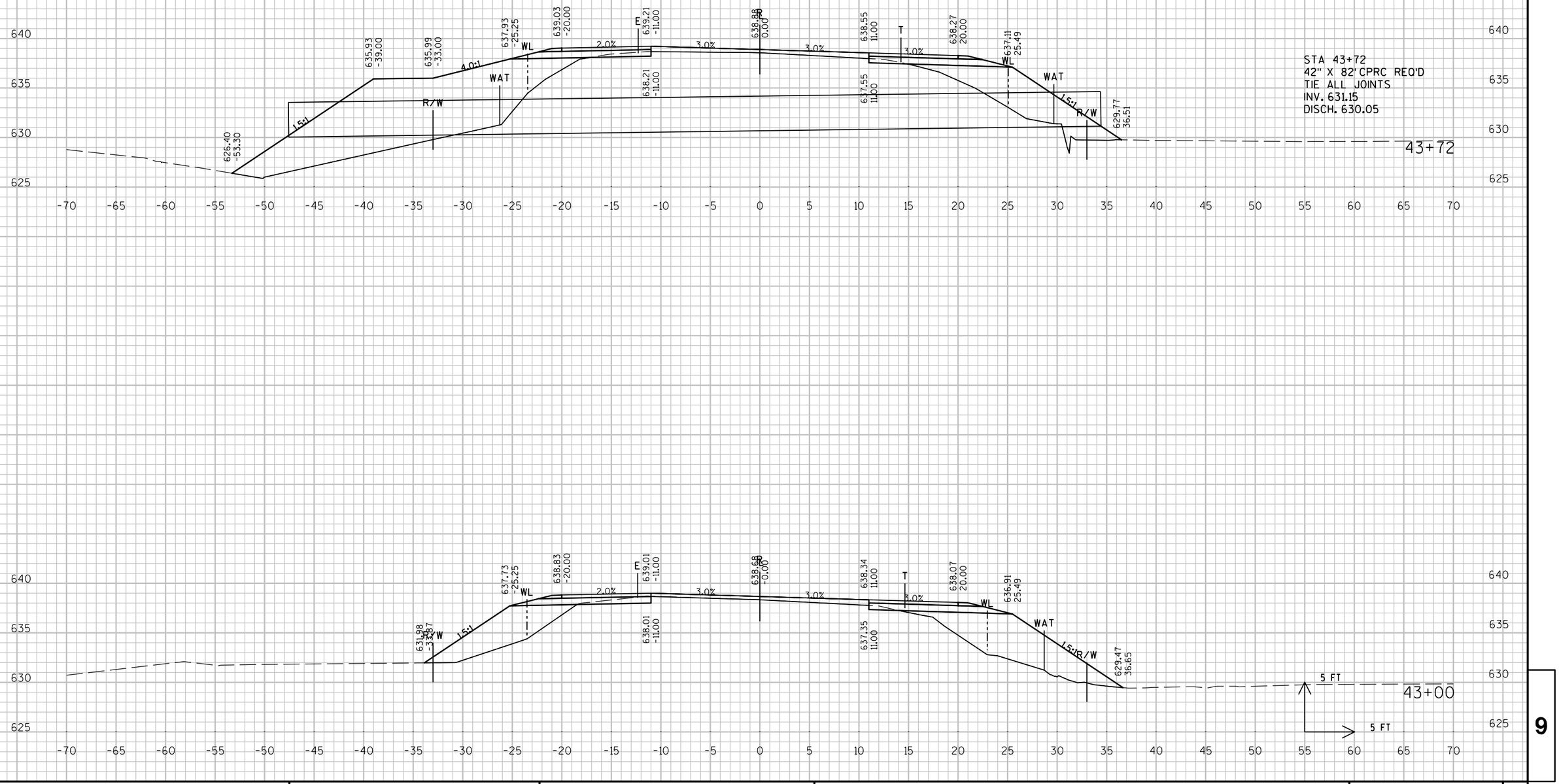
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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 222	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 3/28/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 223	E

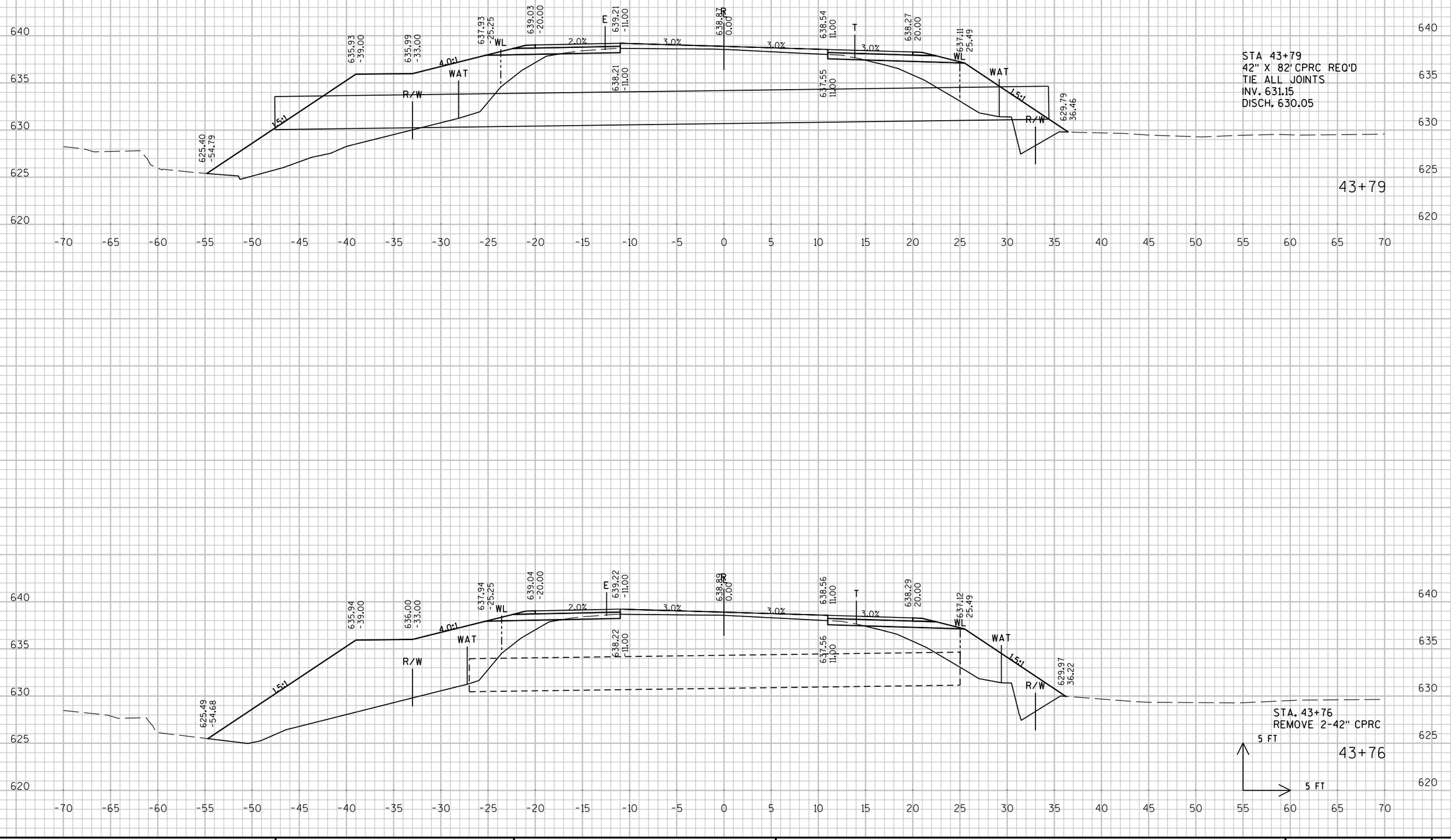
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PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

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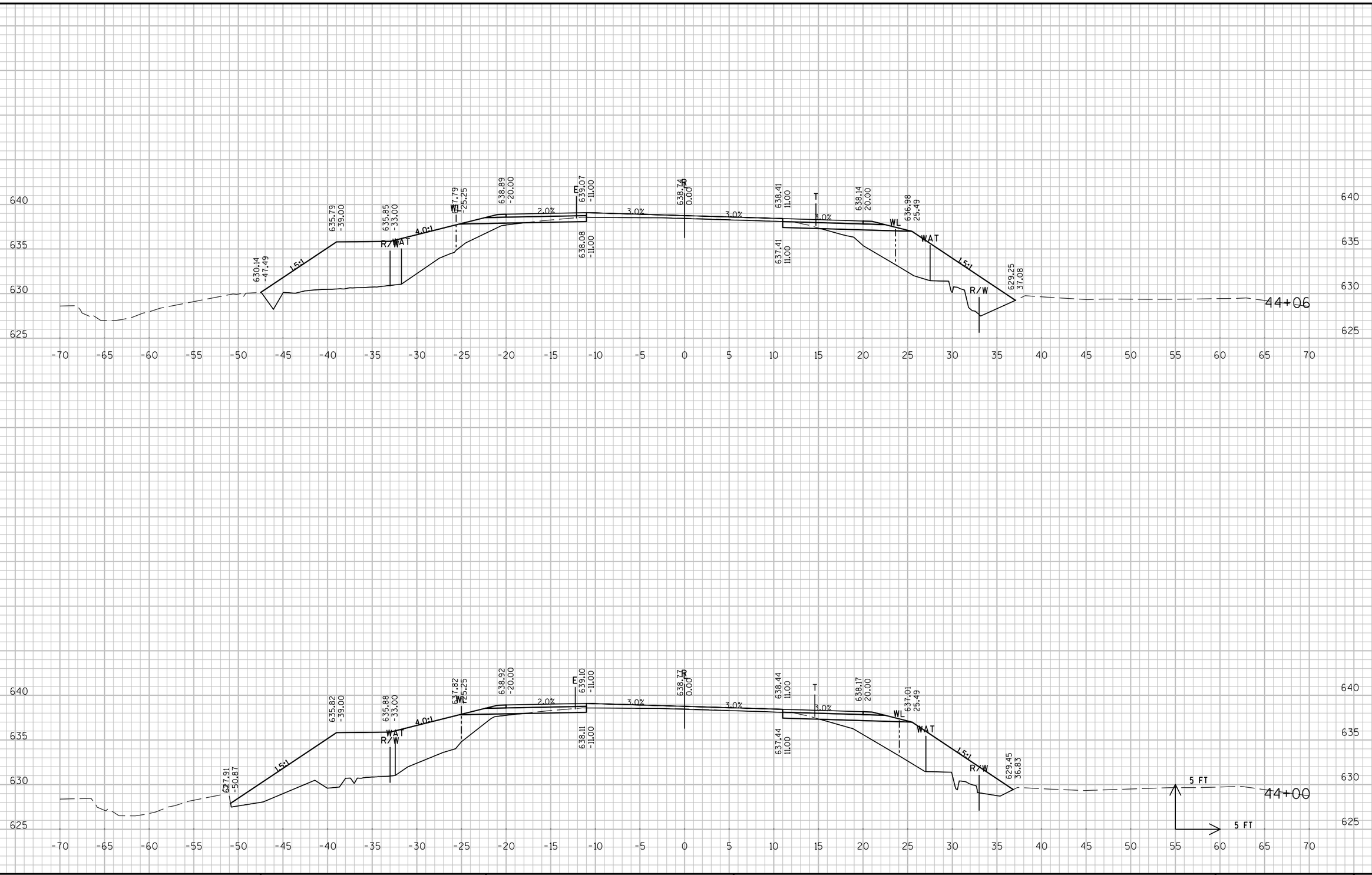
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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 224	E

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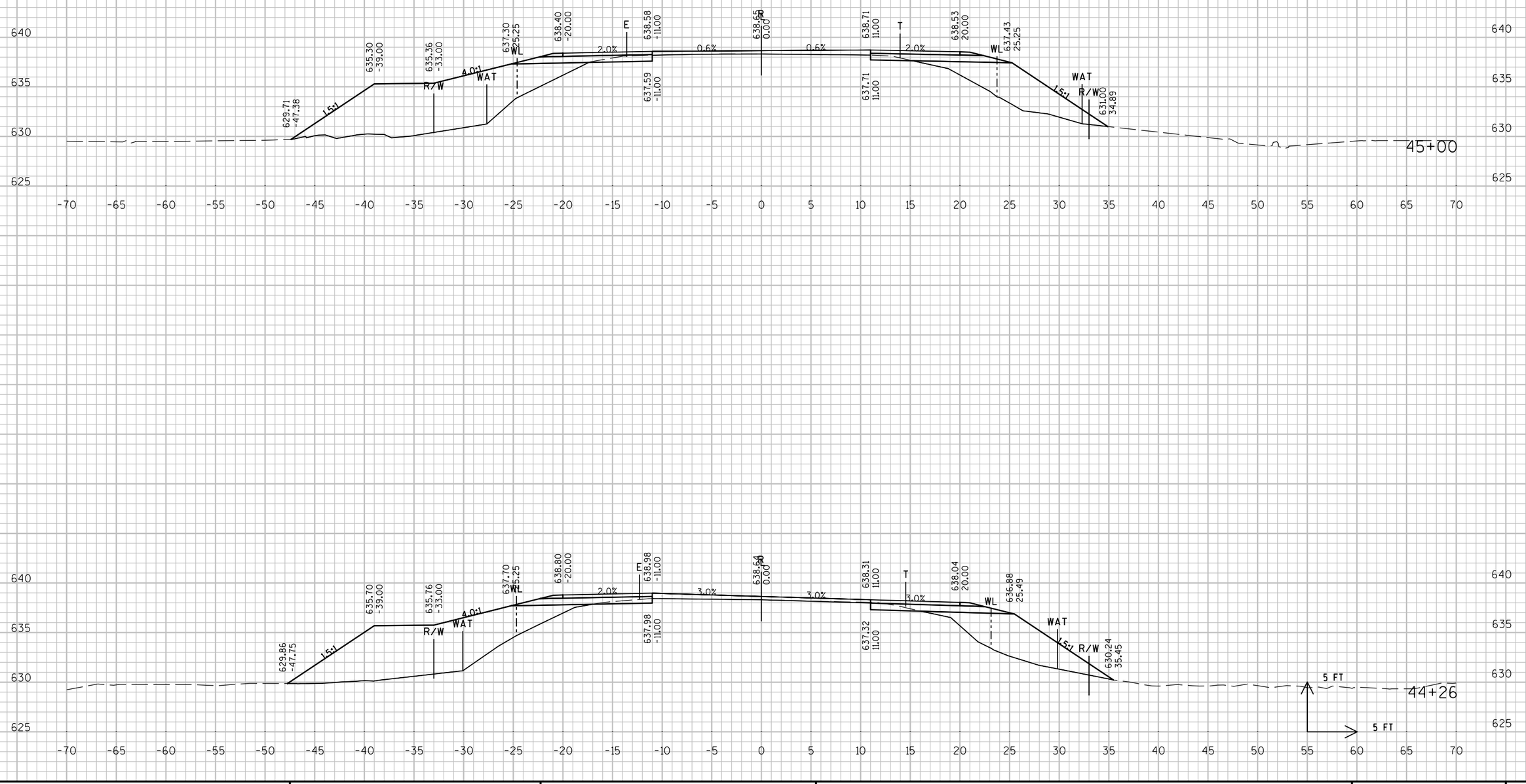
WISDOT/CADDS SHEET 21



PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 225	E

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WISDOT/CADDS SHEET 21



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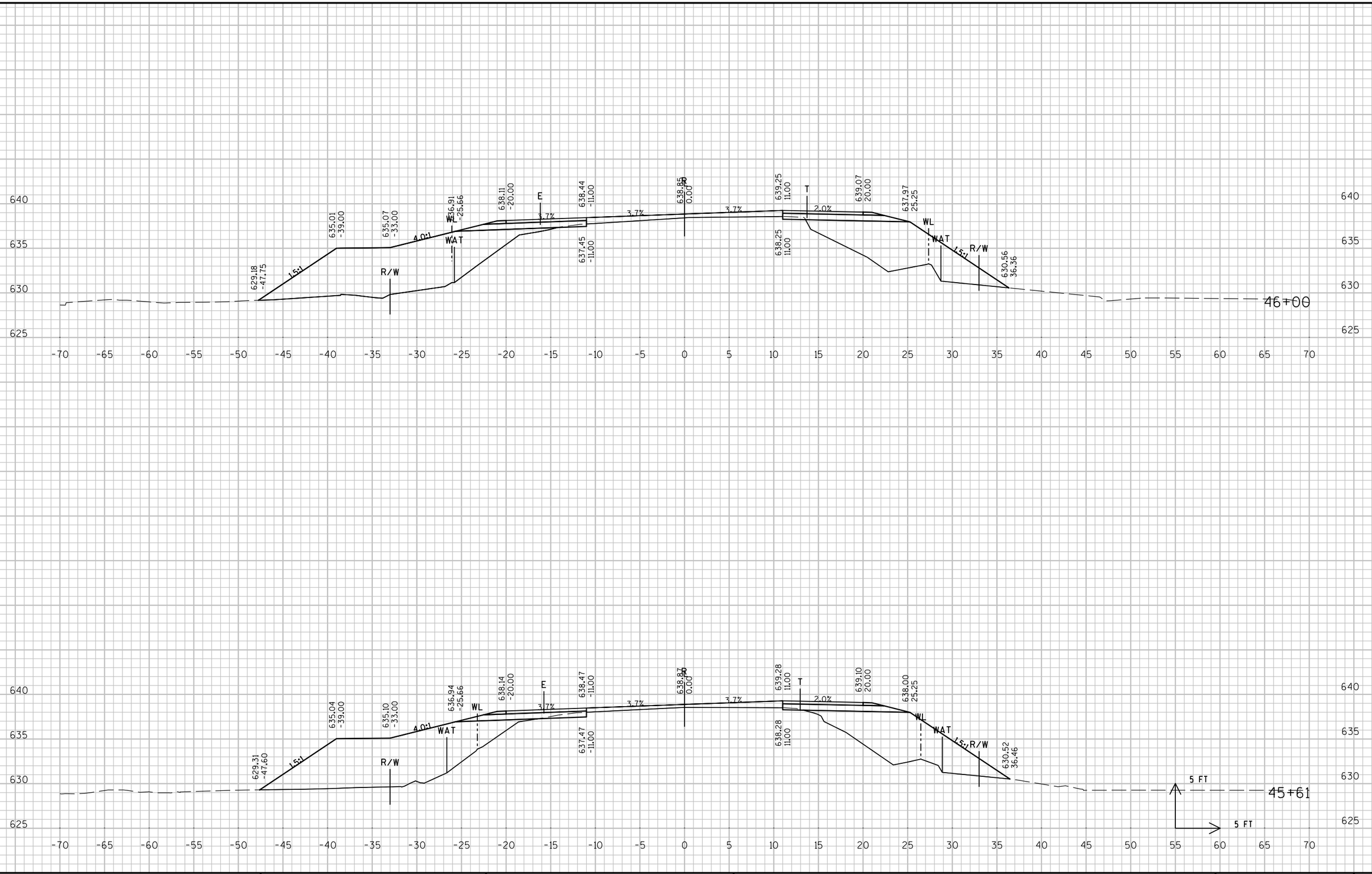
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PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 227	E

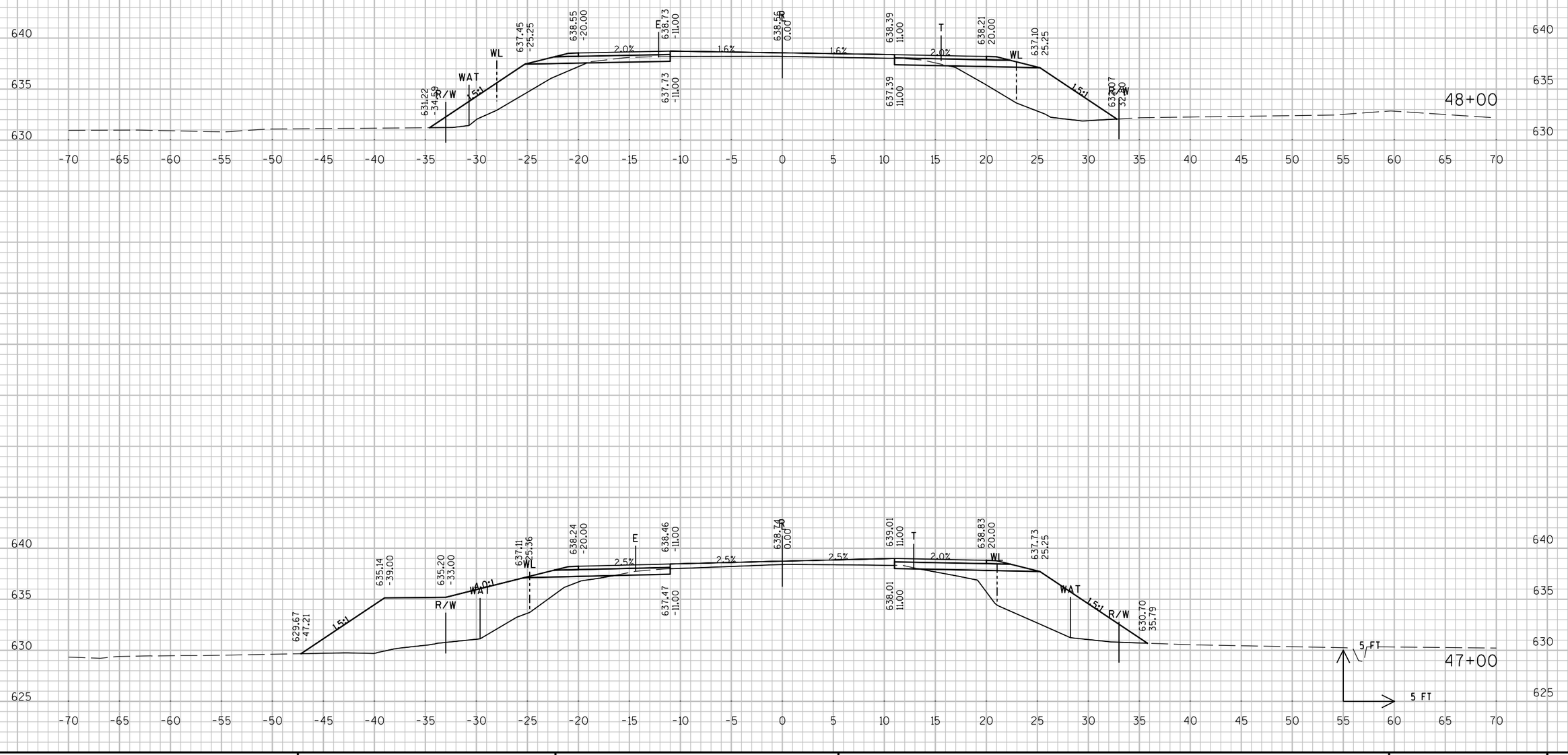
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PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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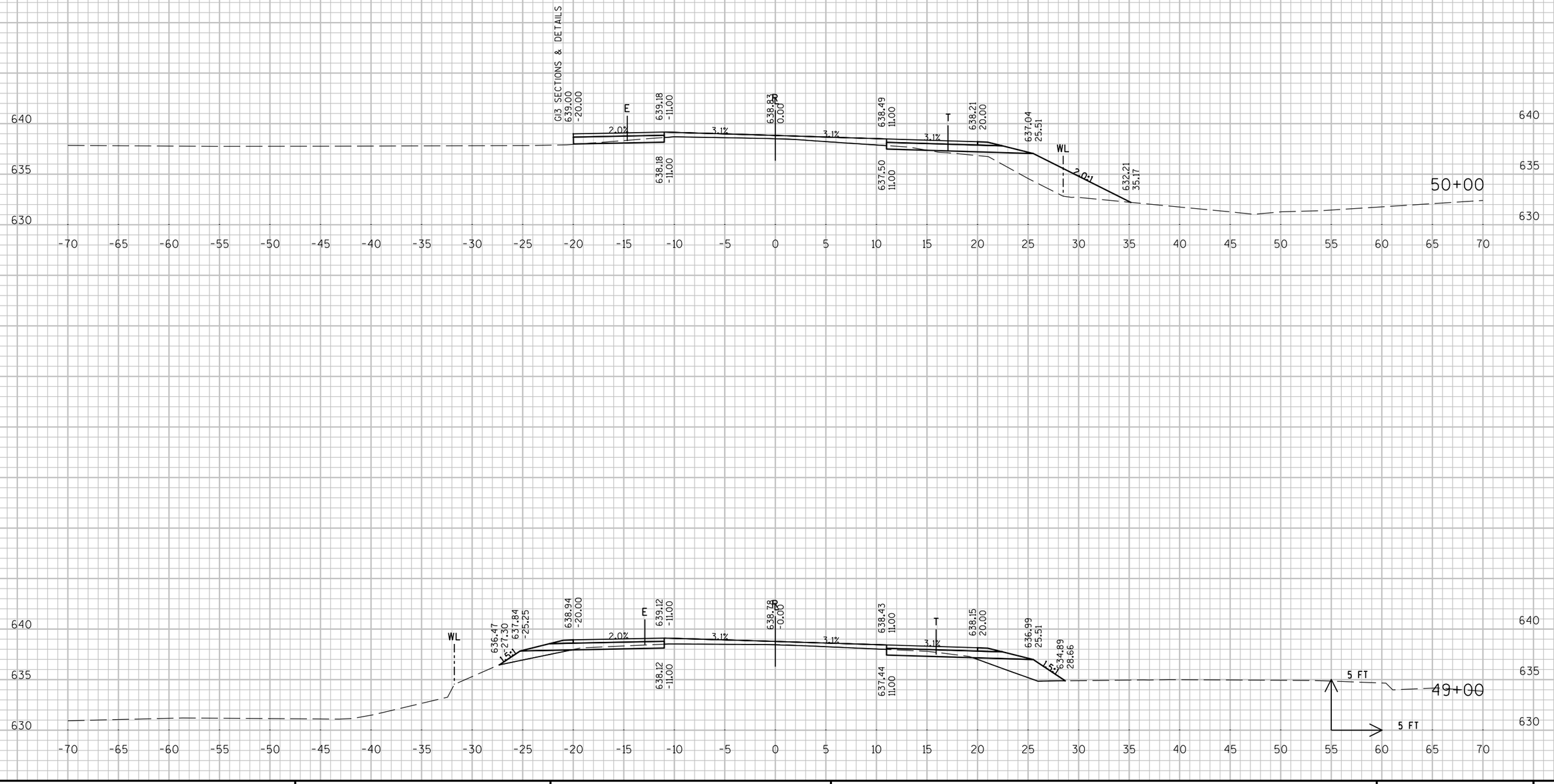
PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 228	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

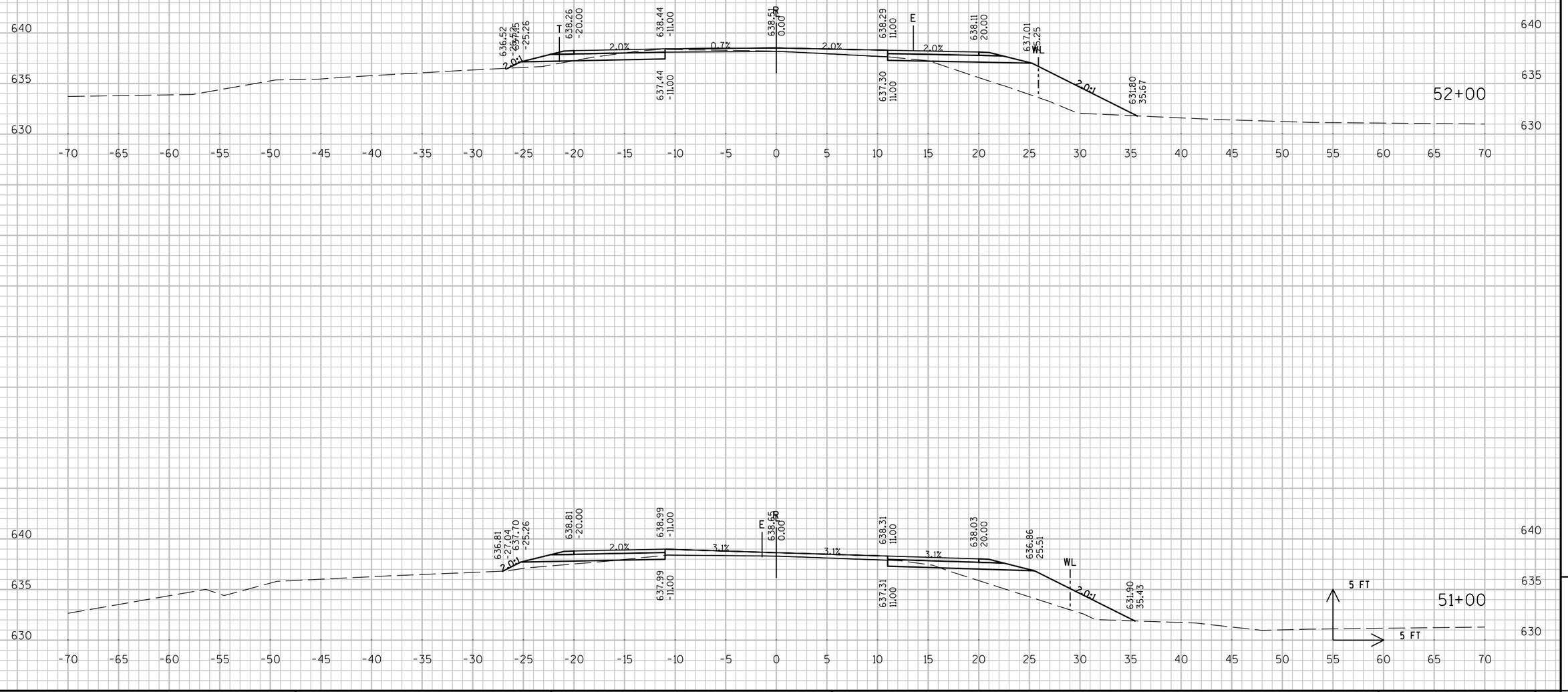
WISDOT/CADDS SHEET 21



PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 229	E

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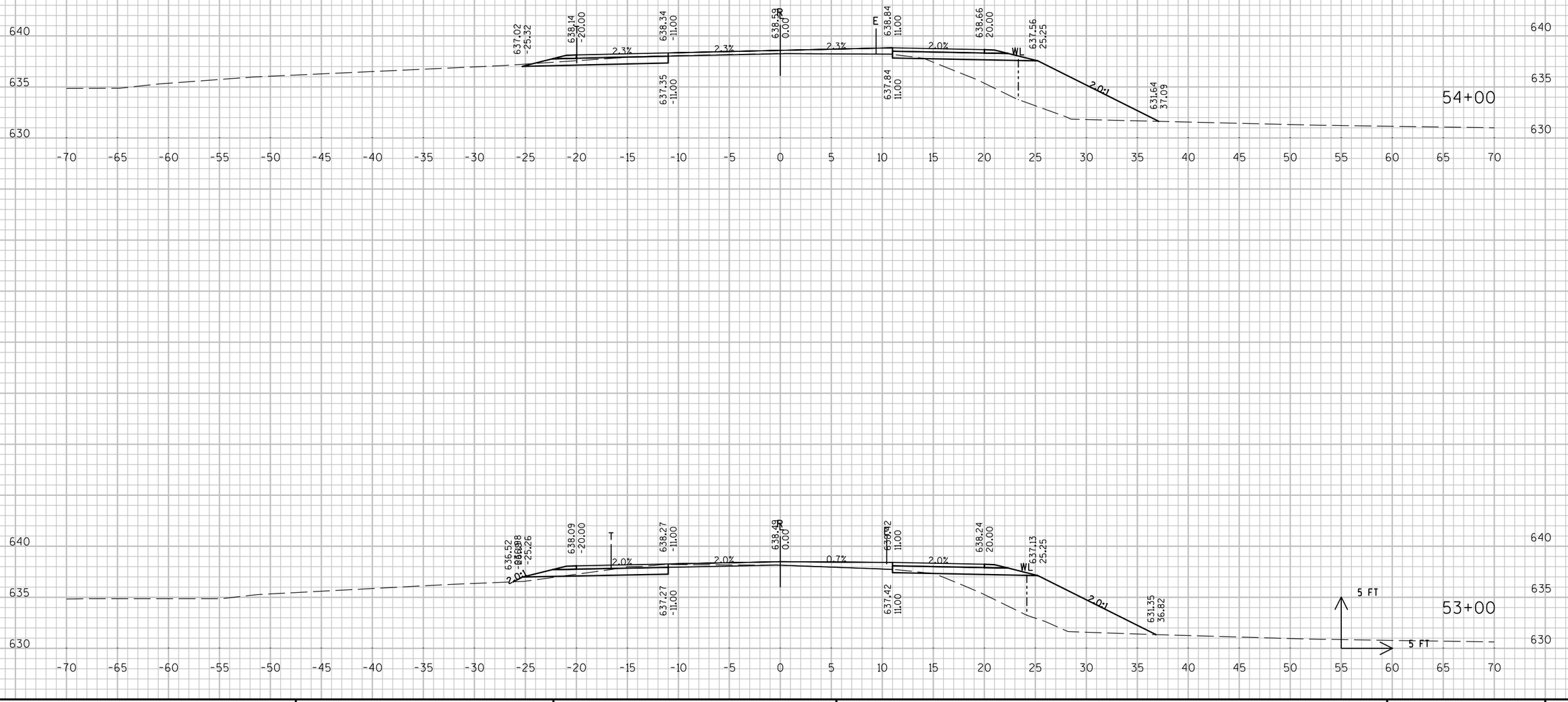
WISDOT/CADDS SHEET 21



PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 230	E

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WISDOT/CADDS SHEET 21



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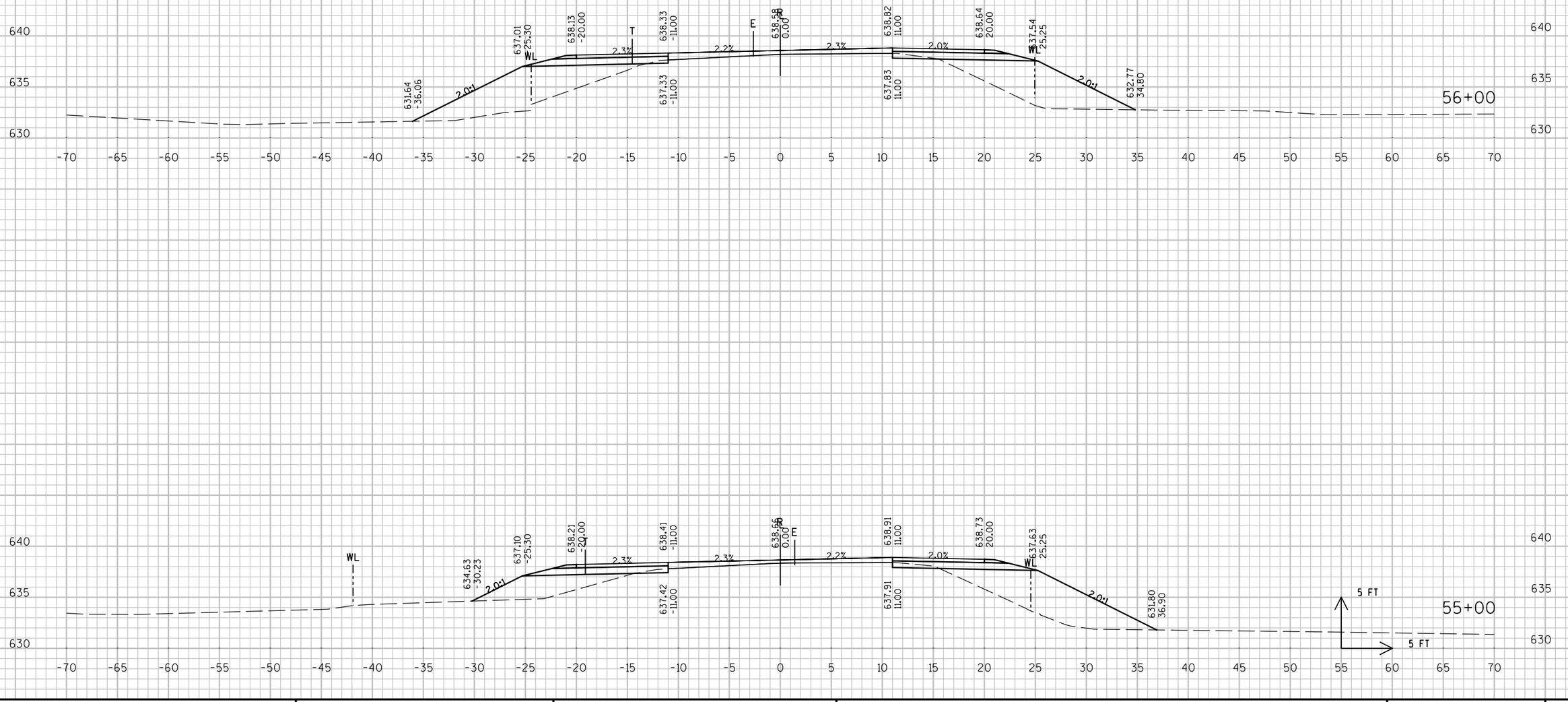
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PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

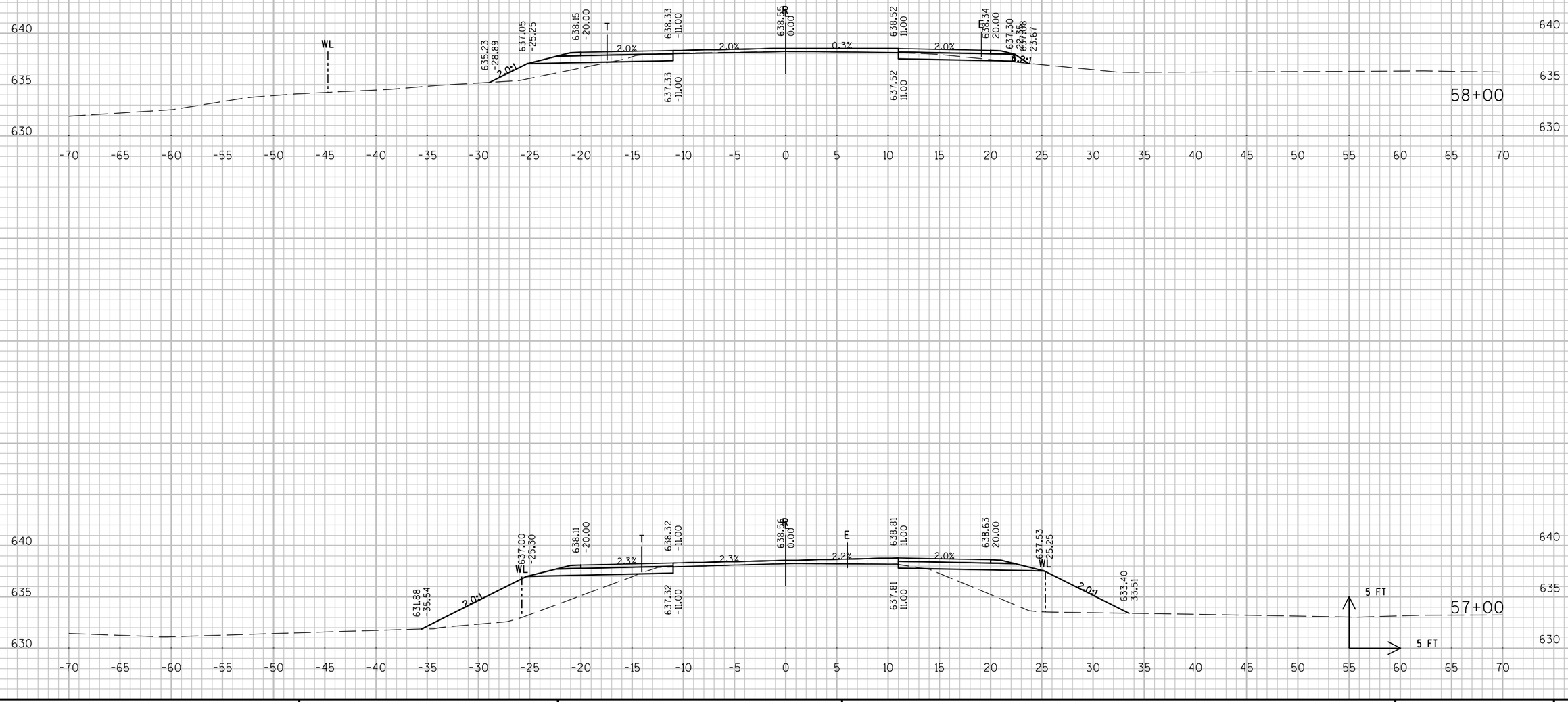
WISDOT/CADDS SHEET 21



PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 232	E

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WISDOT/CADDS SHEET 21

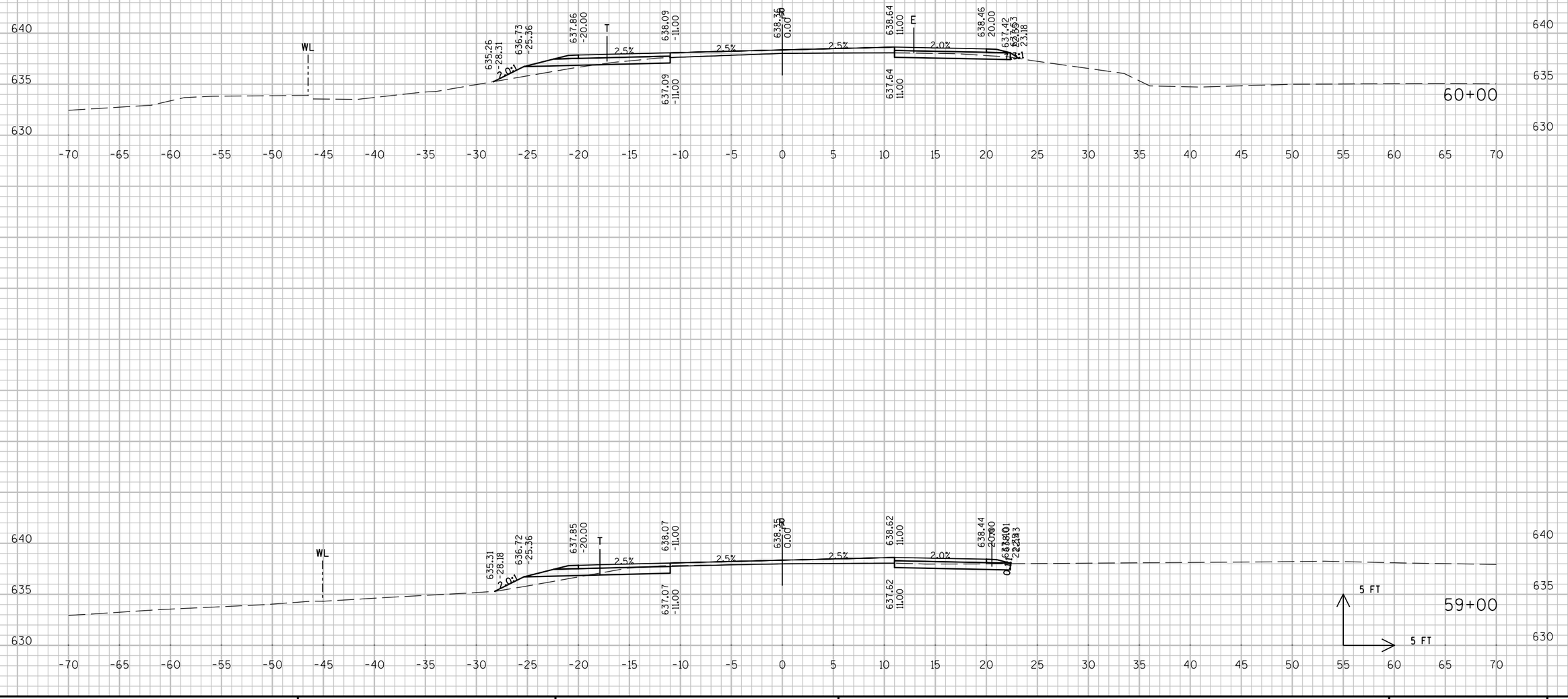


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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 233	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 3/28/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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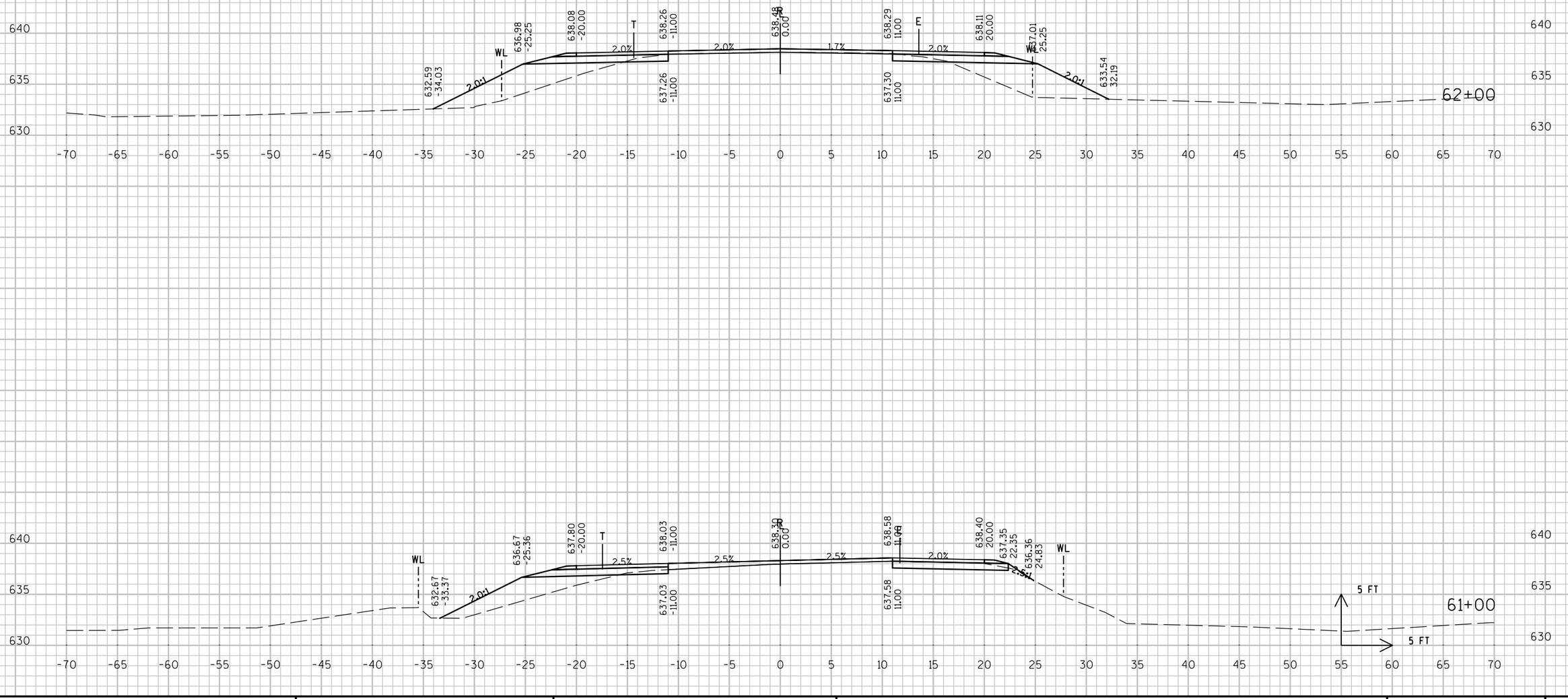
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PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 235	E

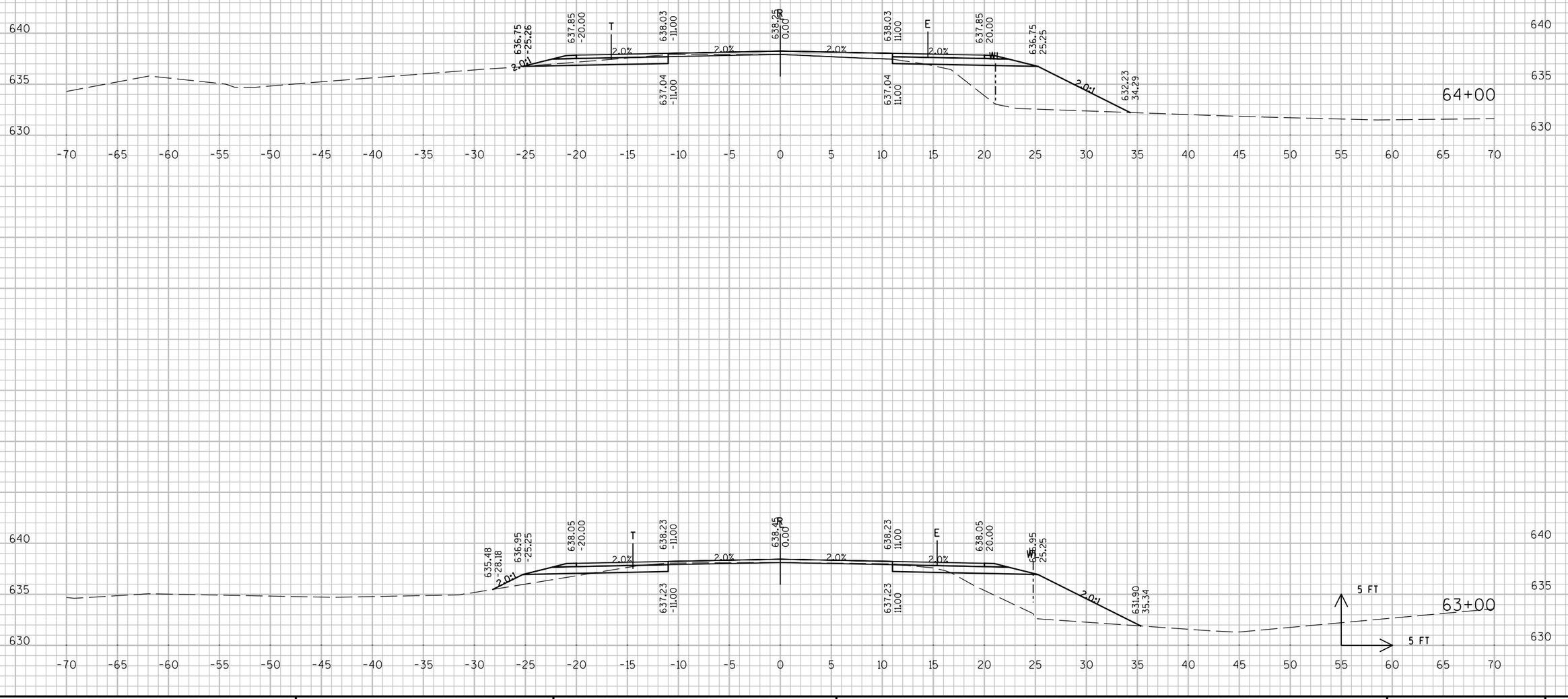
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FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 236	E

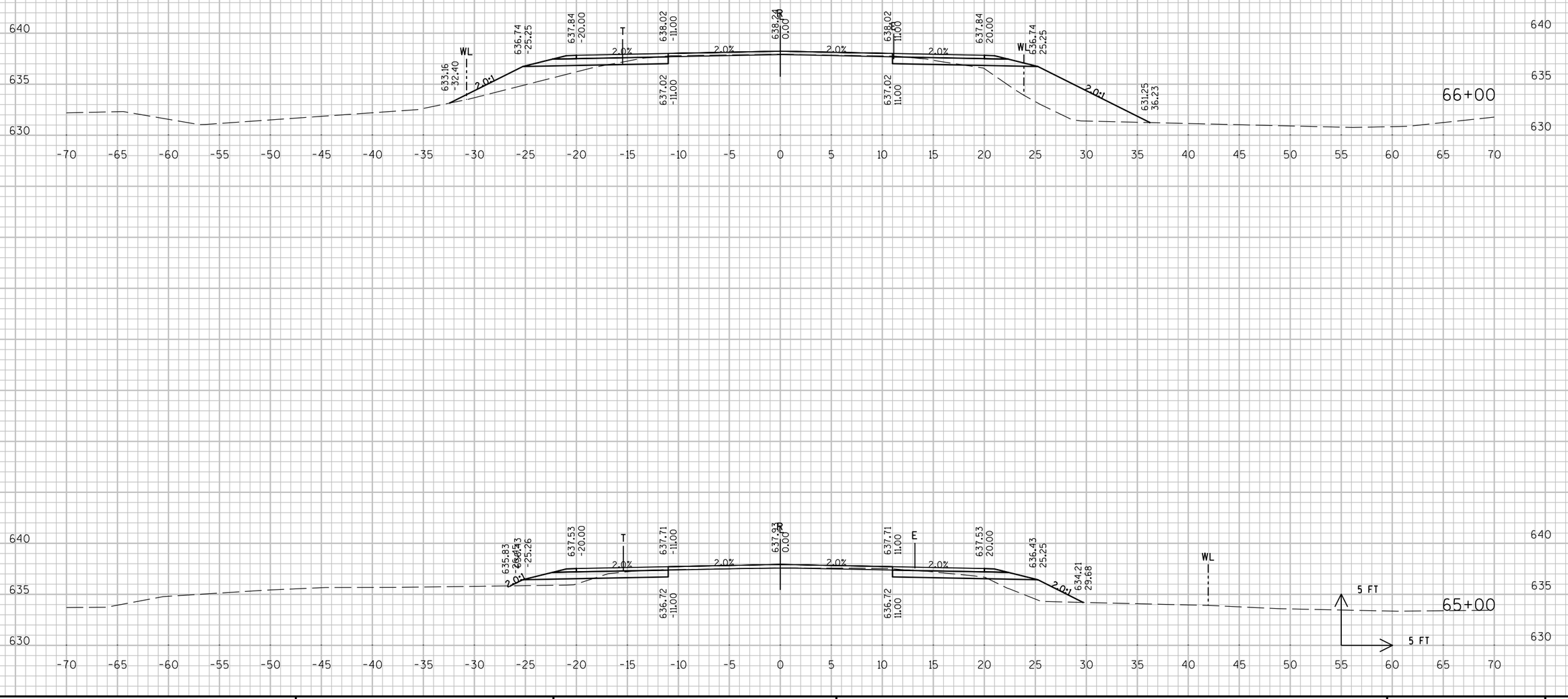
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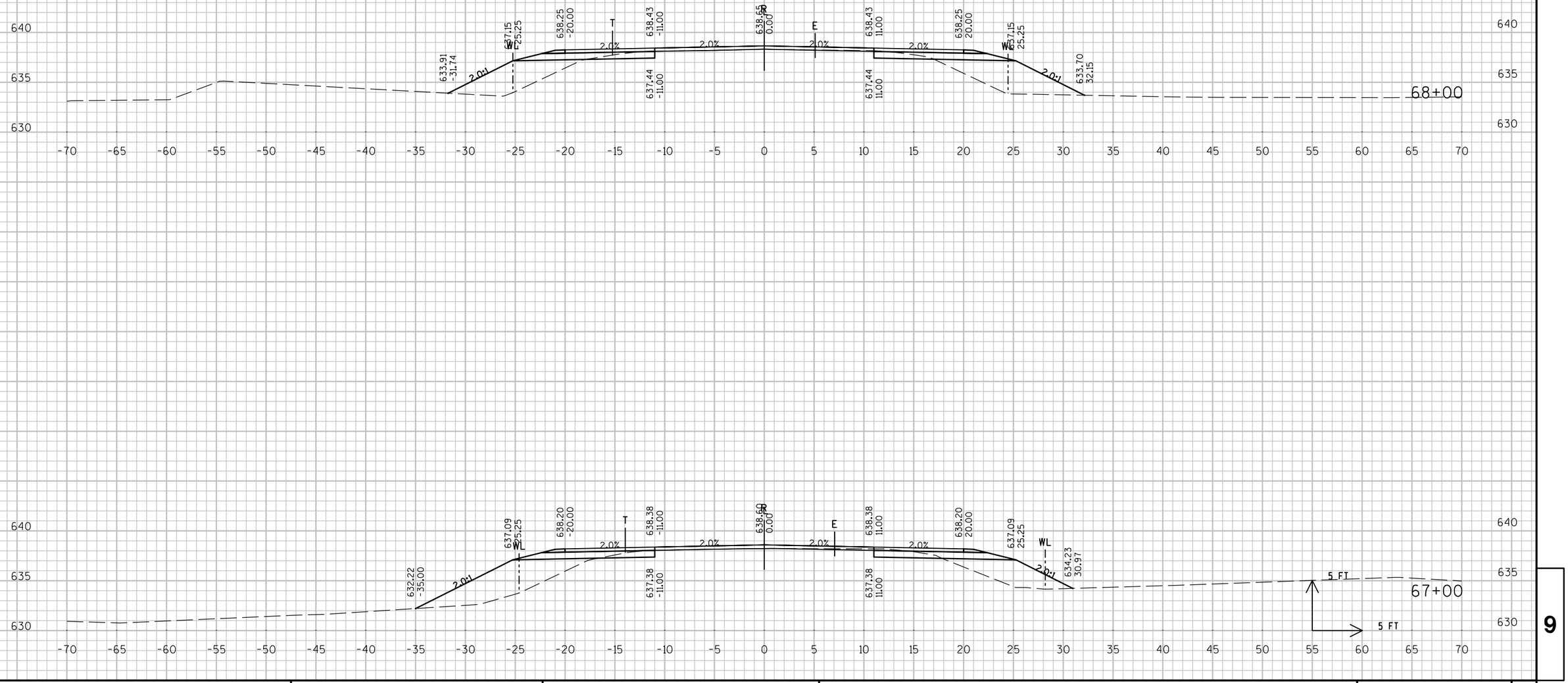
WISDOT/CADDS SHEET 21



PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 237	E

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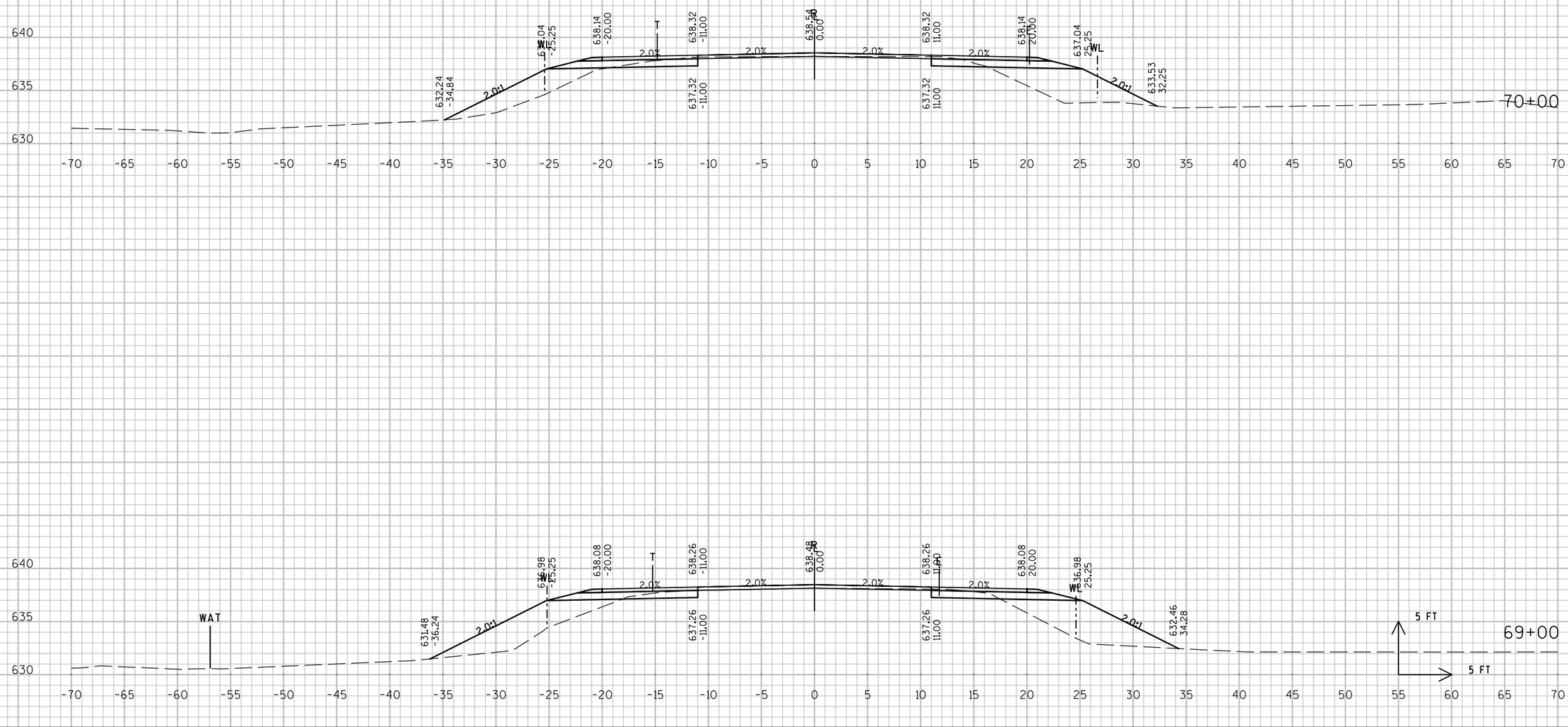
WISDOT/CADDS SHEET 21



9	PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 238 E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 3/28/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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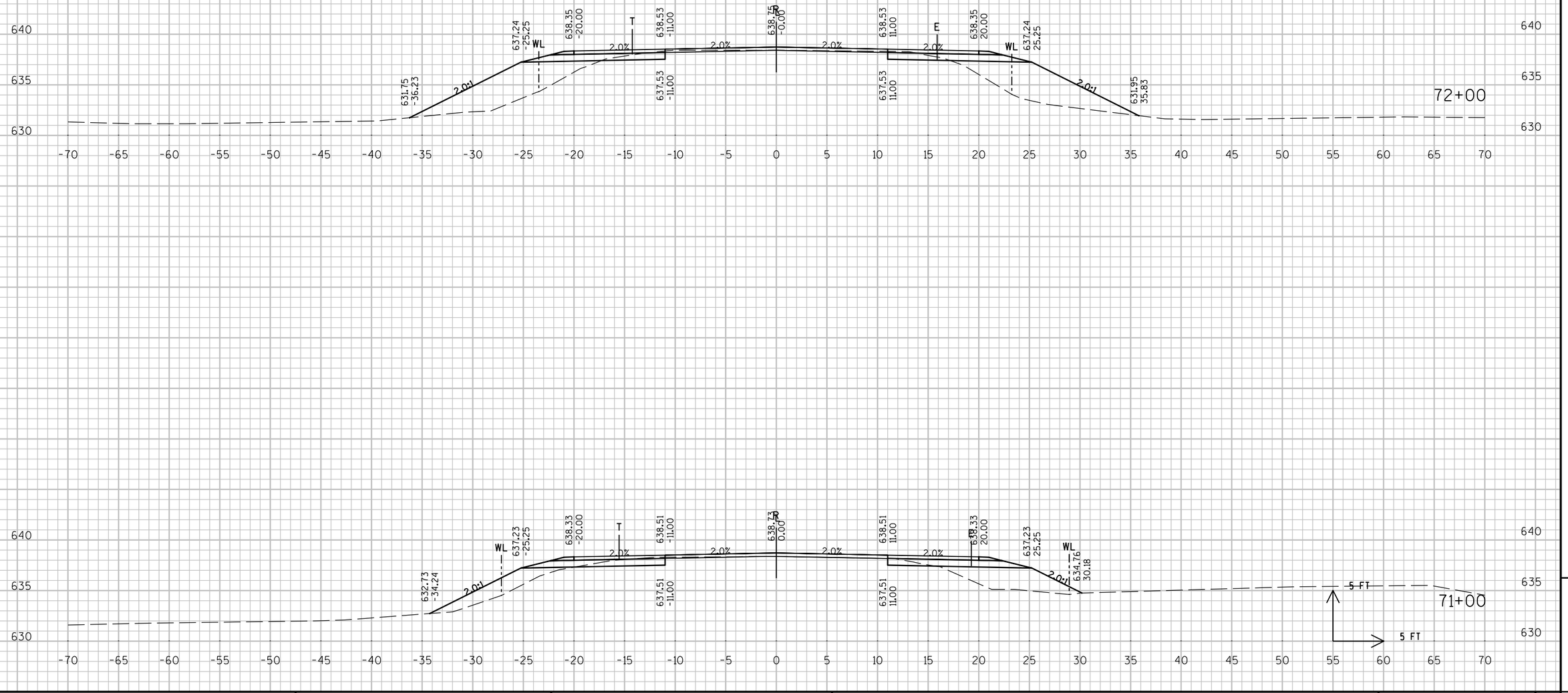
PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 239	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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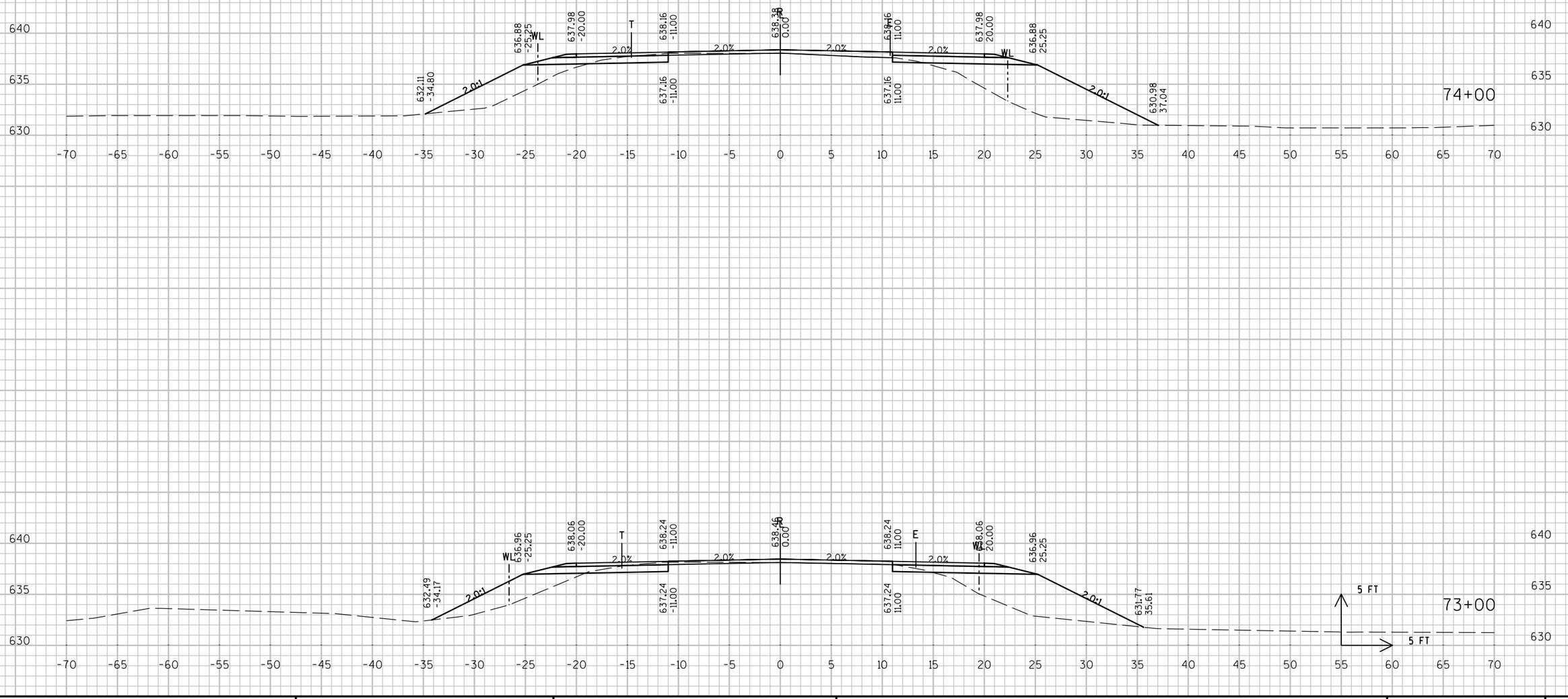
PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 240	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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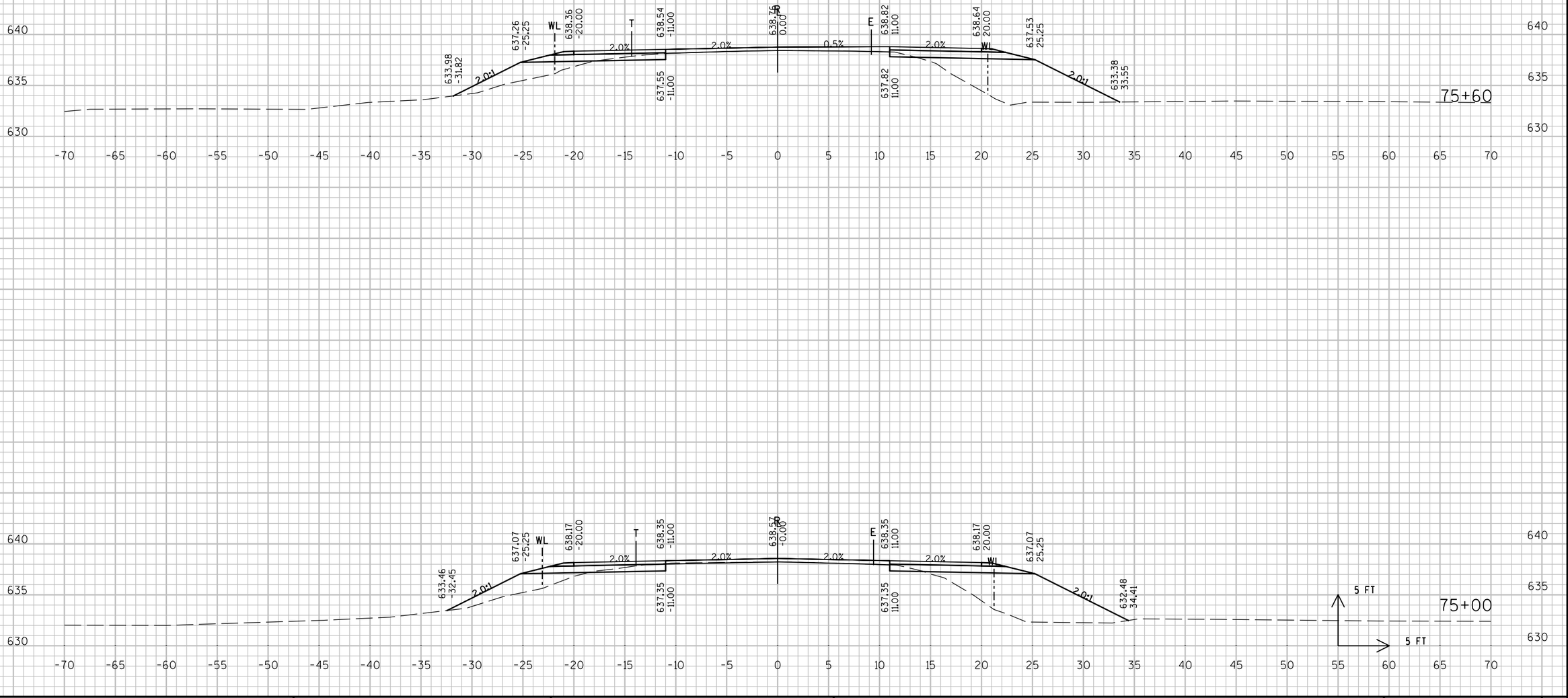
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FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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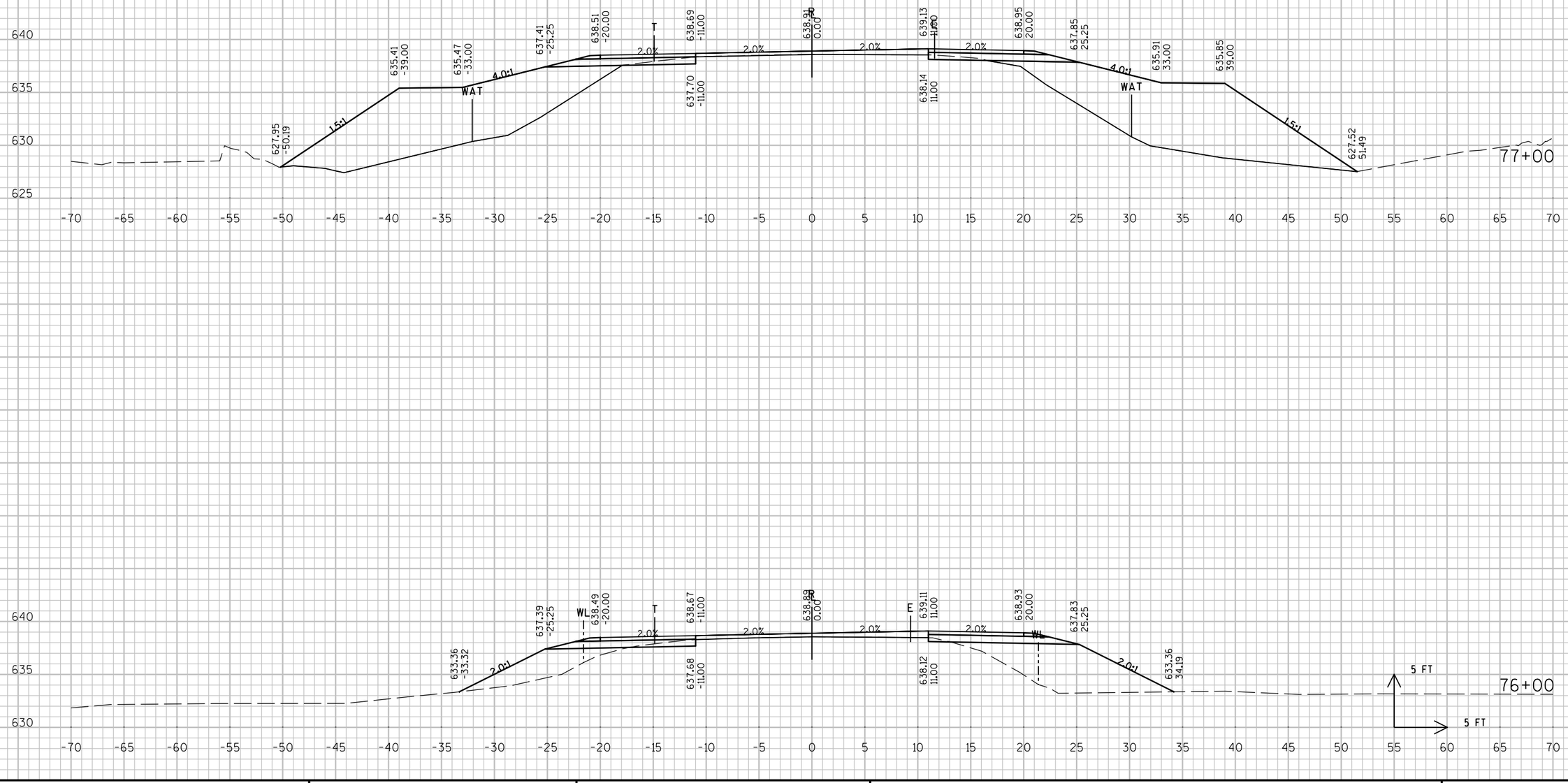
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FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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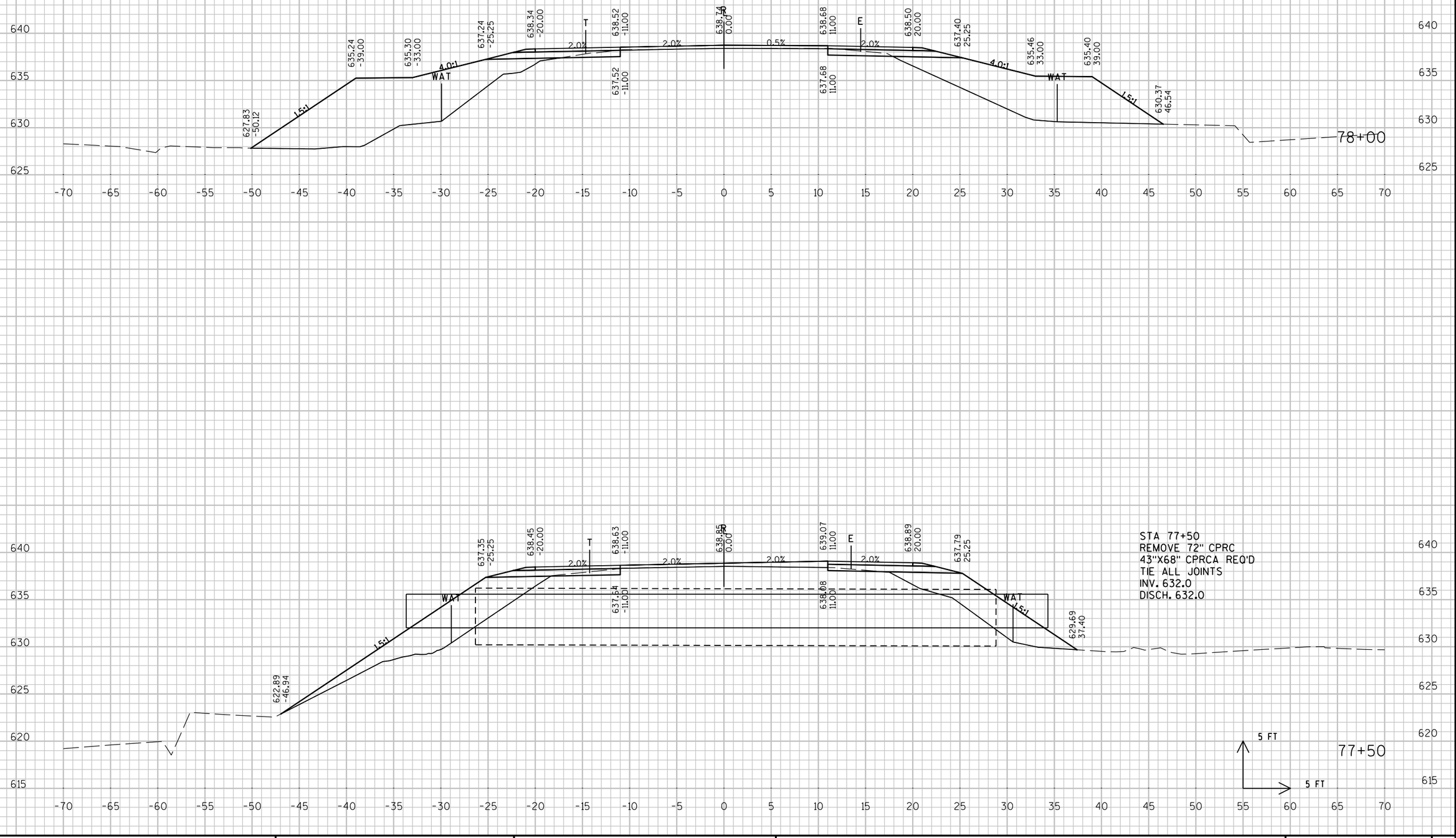
PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 243	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 3/28/2018

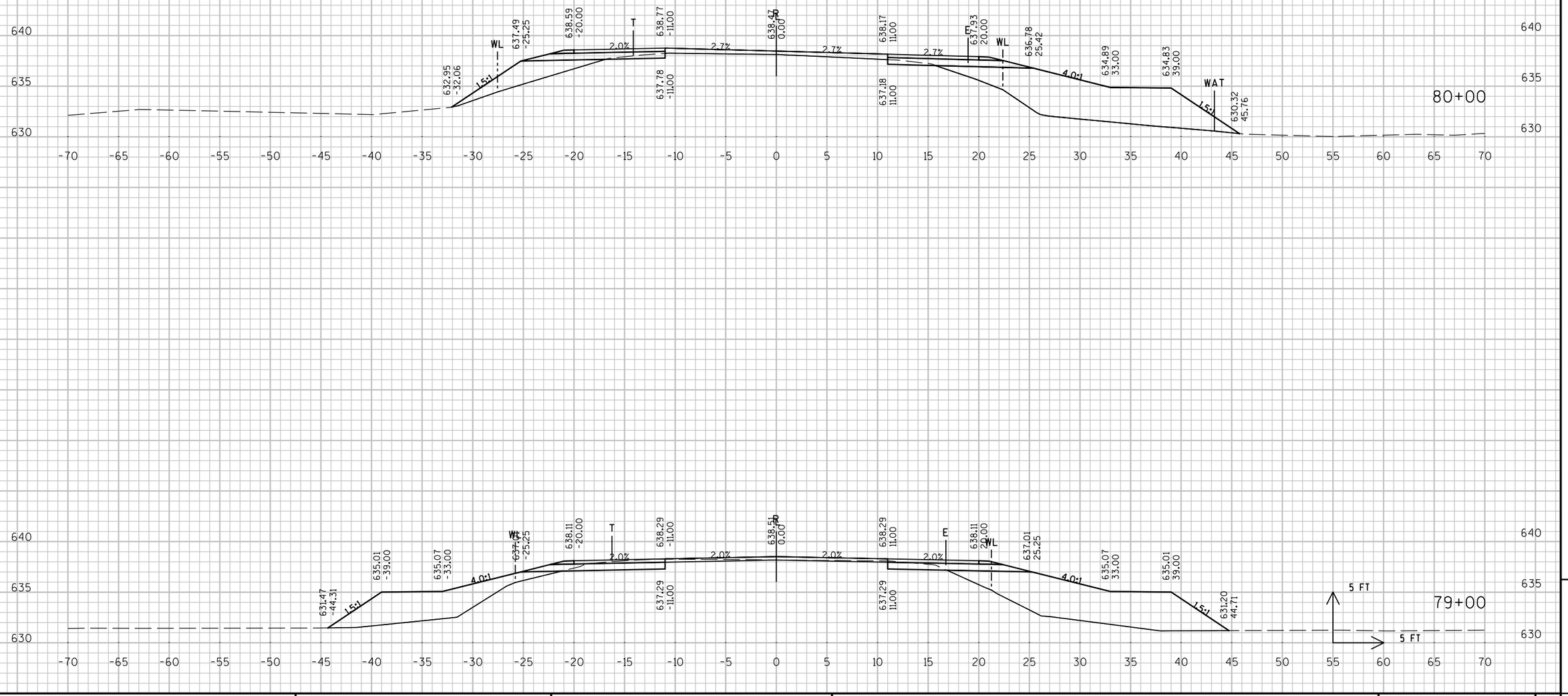
PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 244	E



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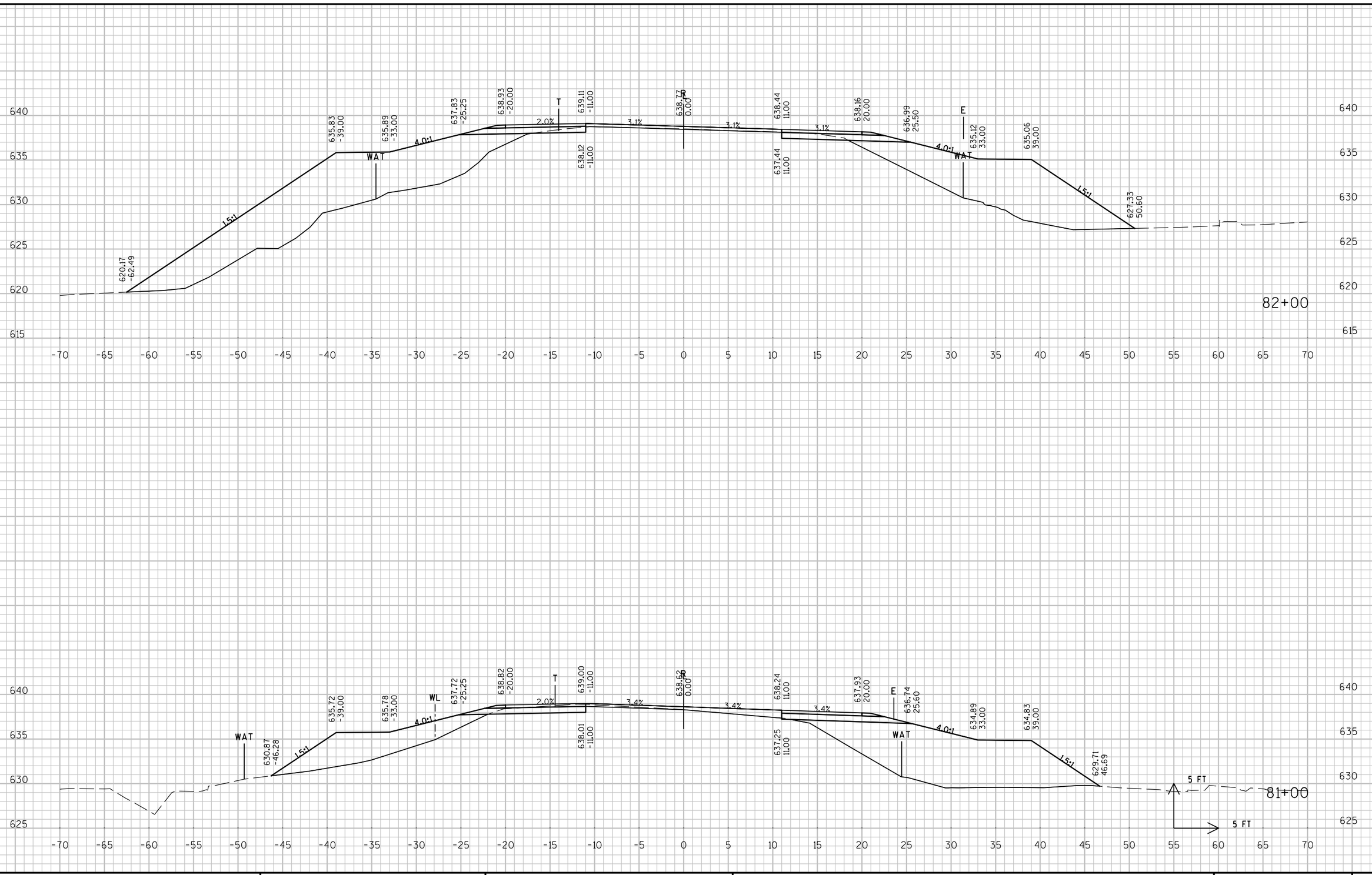
PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 245	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

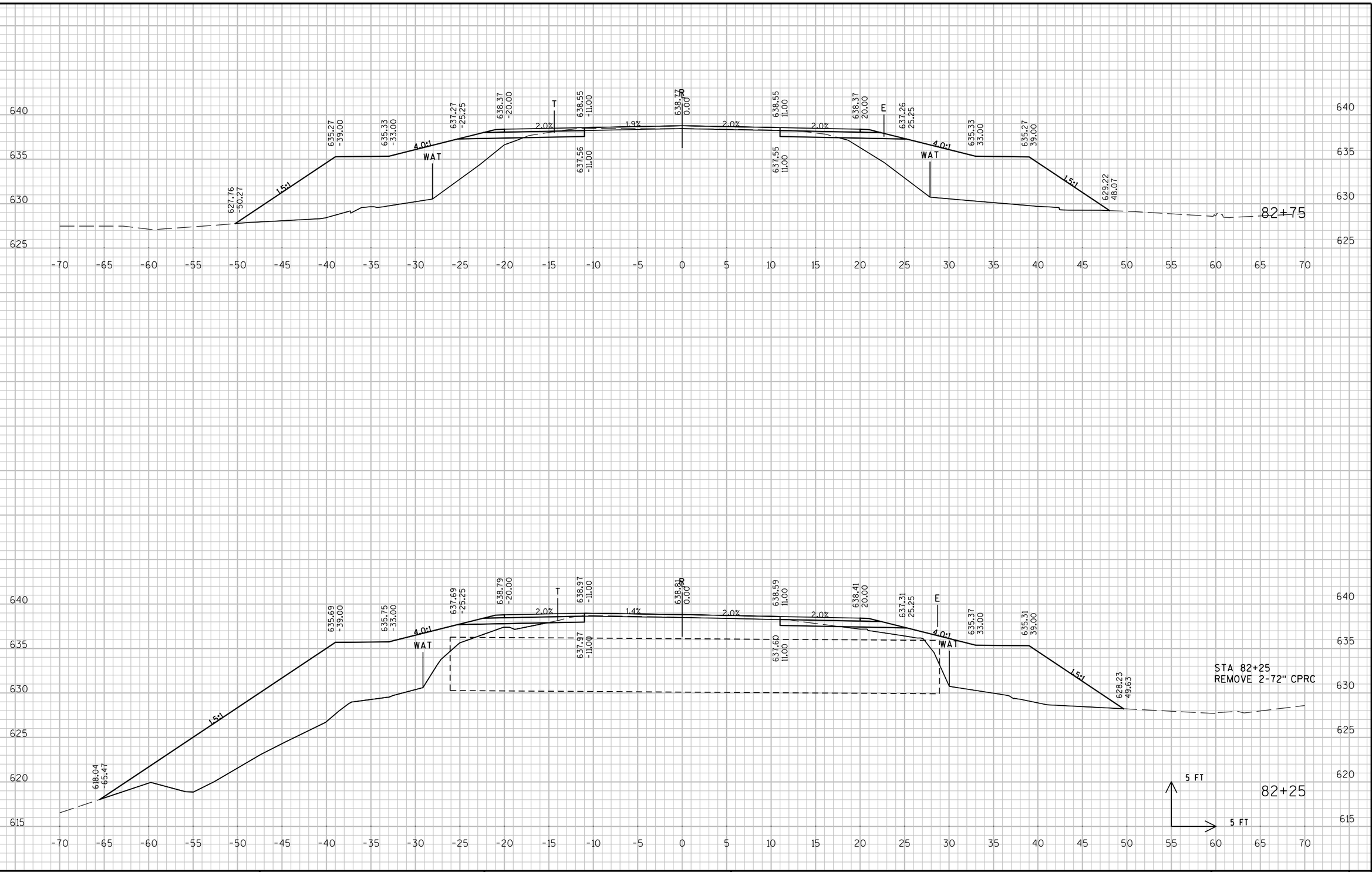
WISDOT/CADDS SHEET 21



PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 246	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 3/28/2018 PLOT BY : $$...plotuser...$$

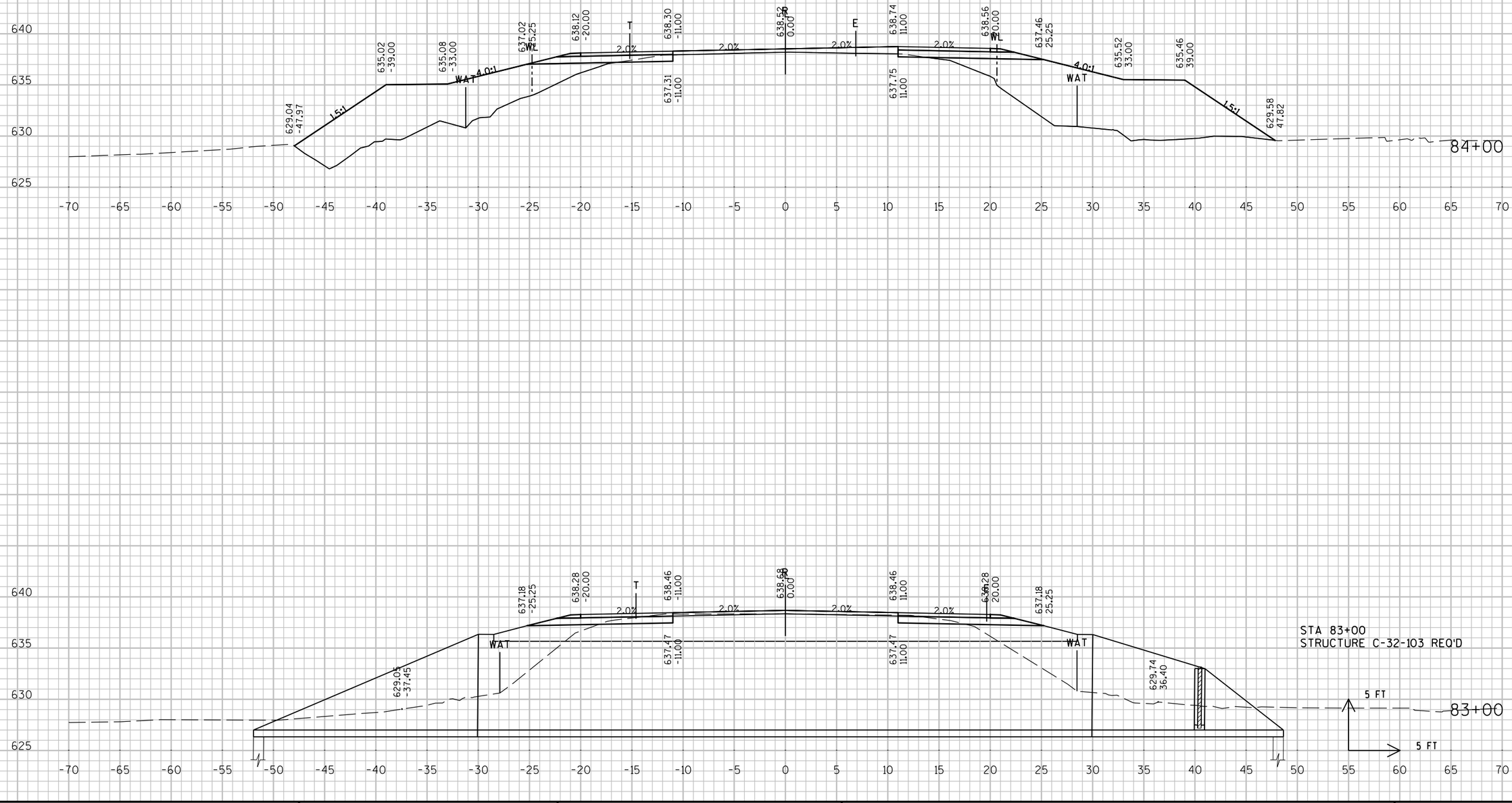
WISDOT/CADDS SHEET 21



PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 247	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 3/28/2018 PLOT BY : $$...plotuser...$$

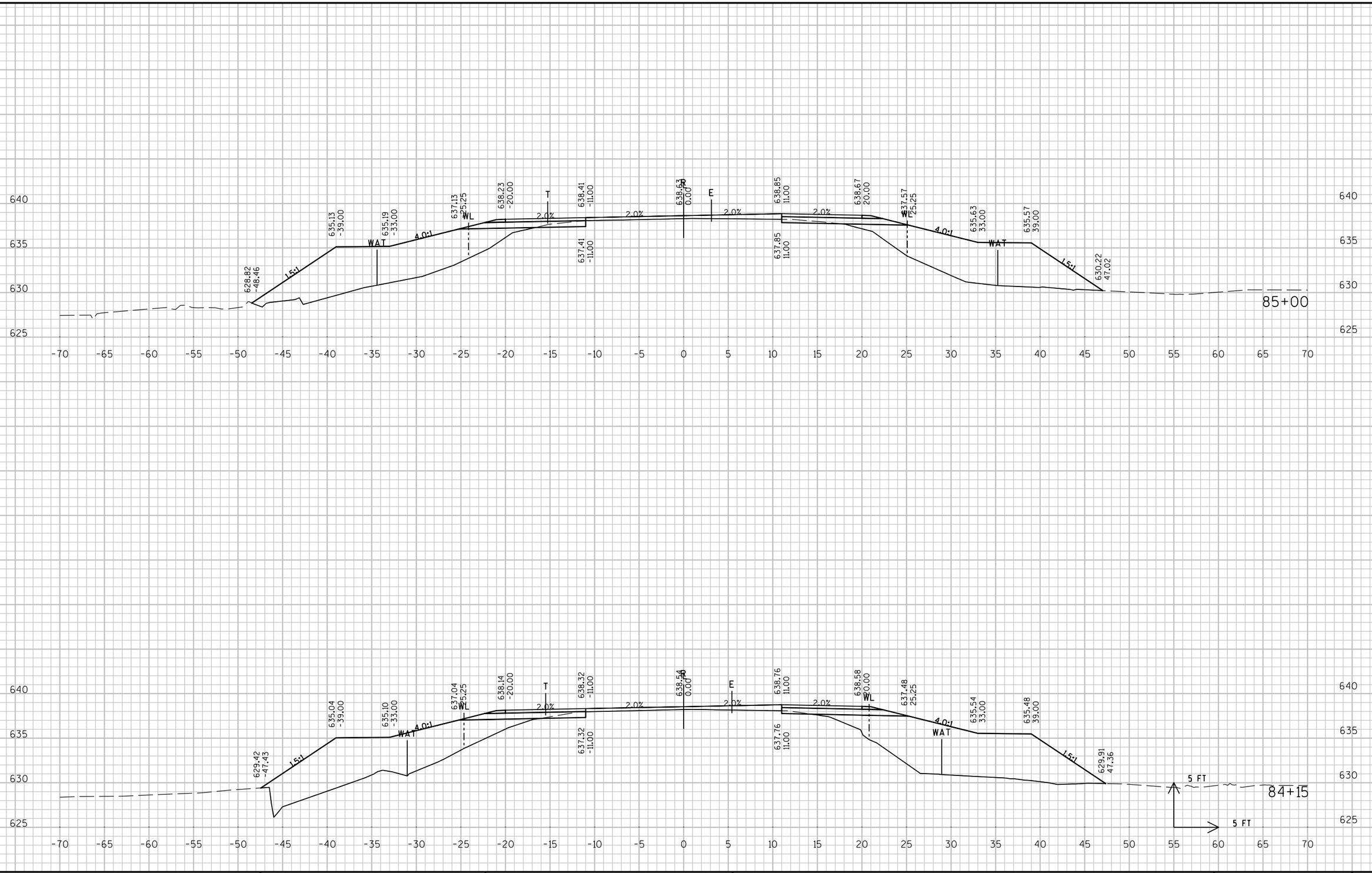
WISDOT/CADDS SHEET 21



PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 248	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 3/28/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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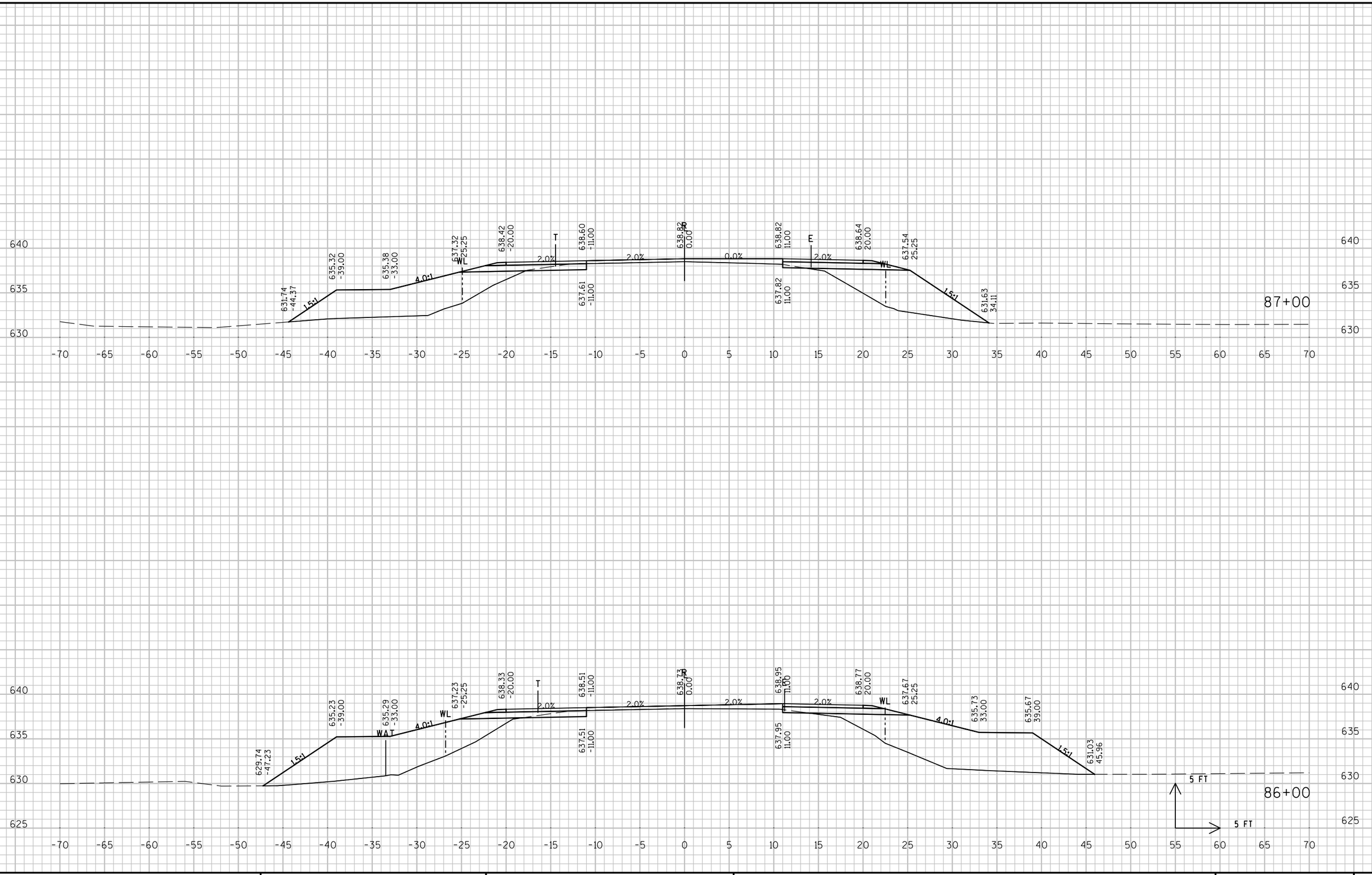
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FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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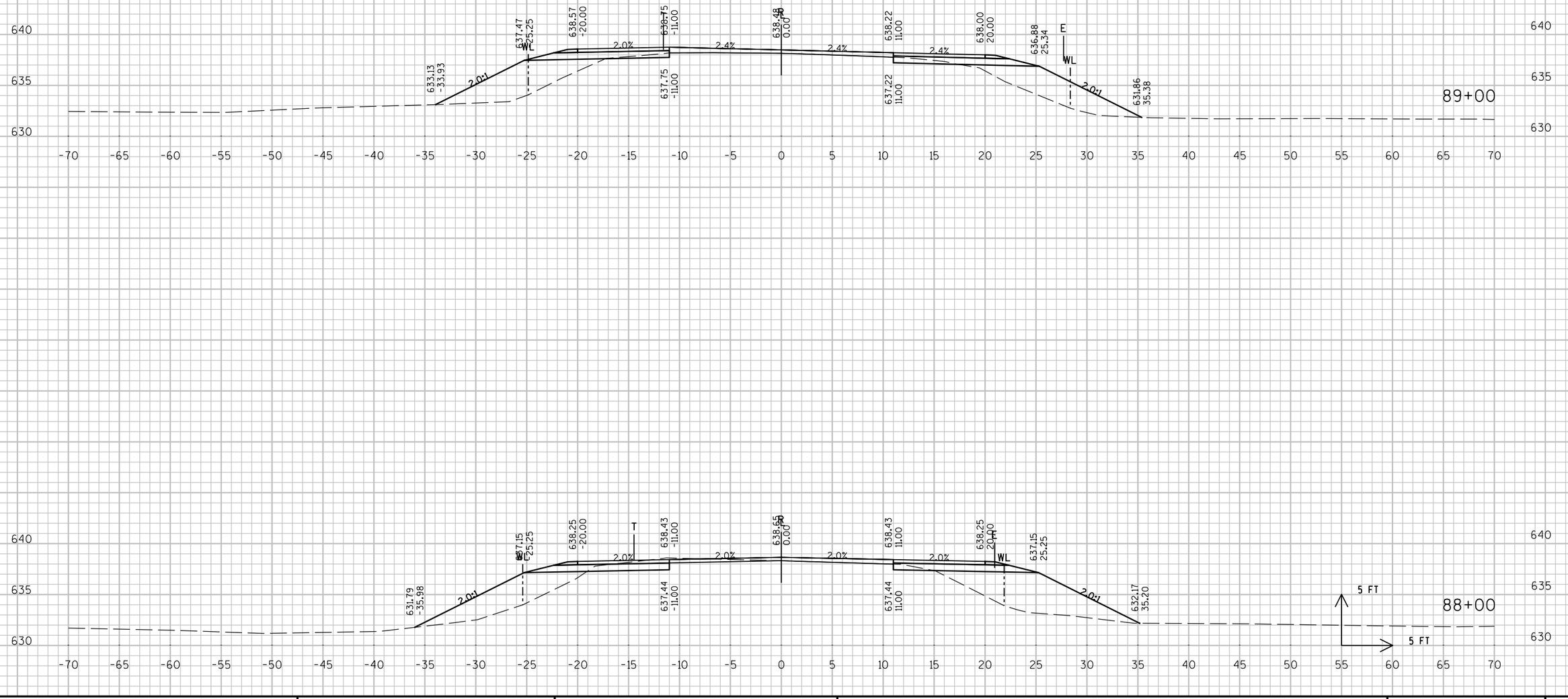
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PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

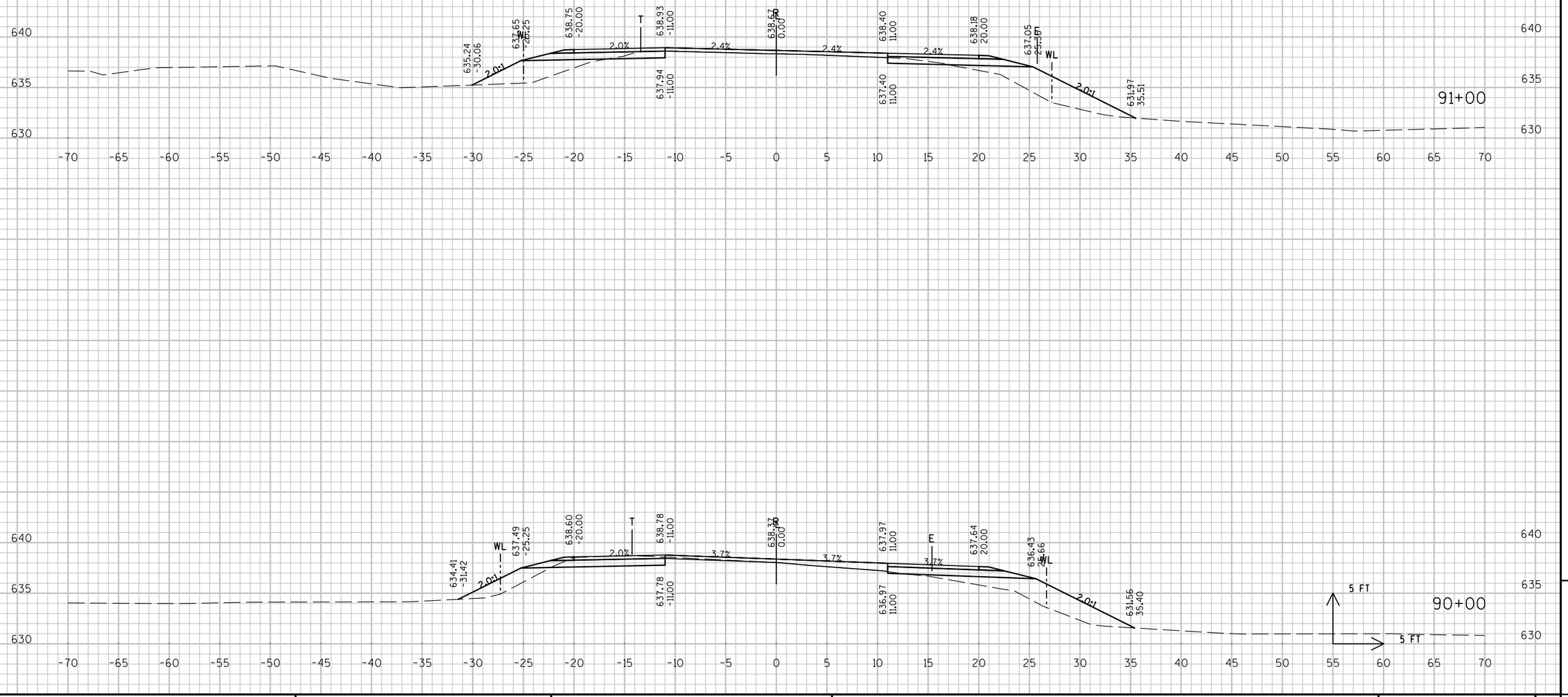


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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 251	E

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WISDOT/CADDS SHEET 21



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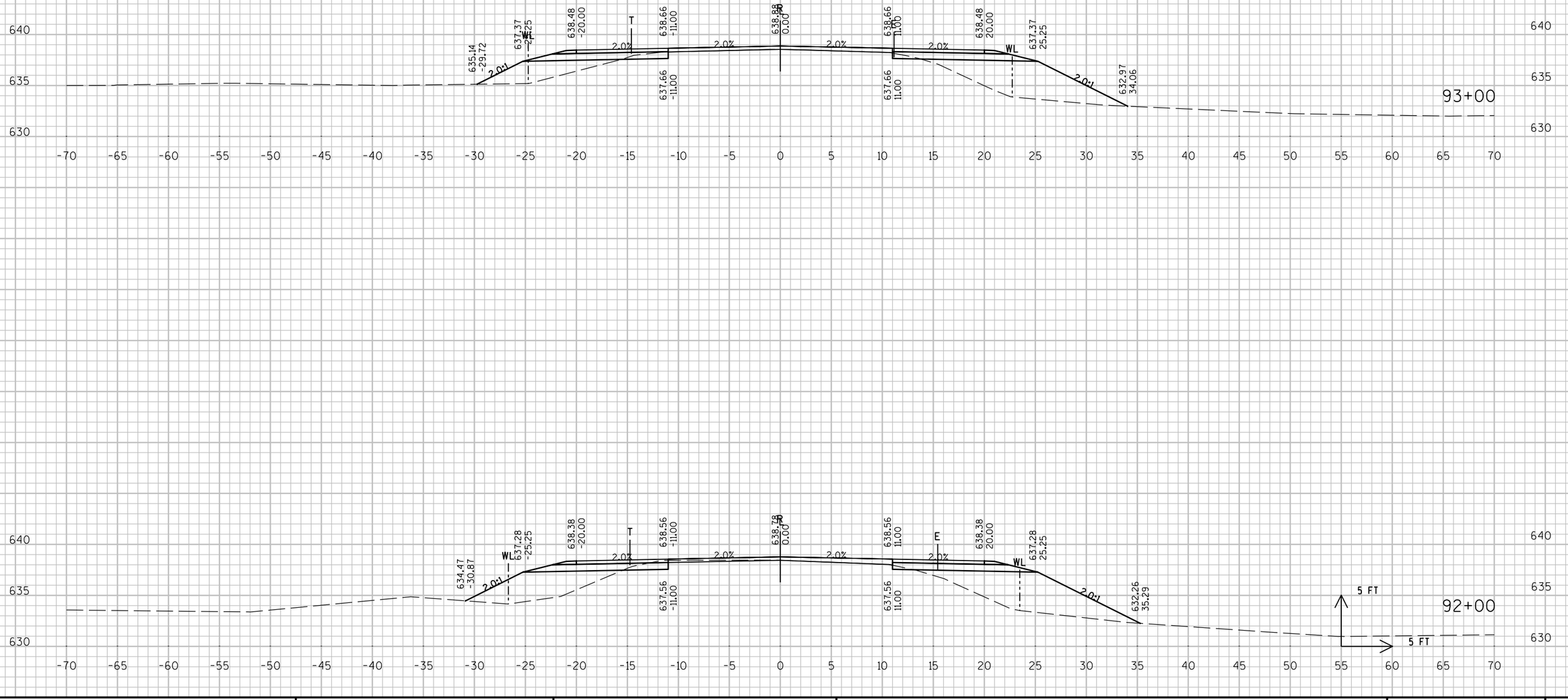
PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 252	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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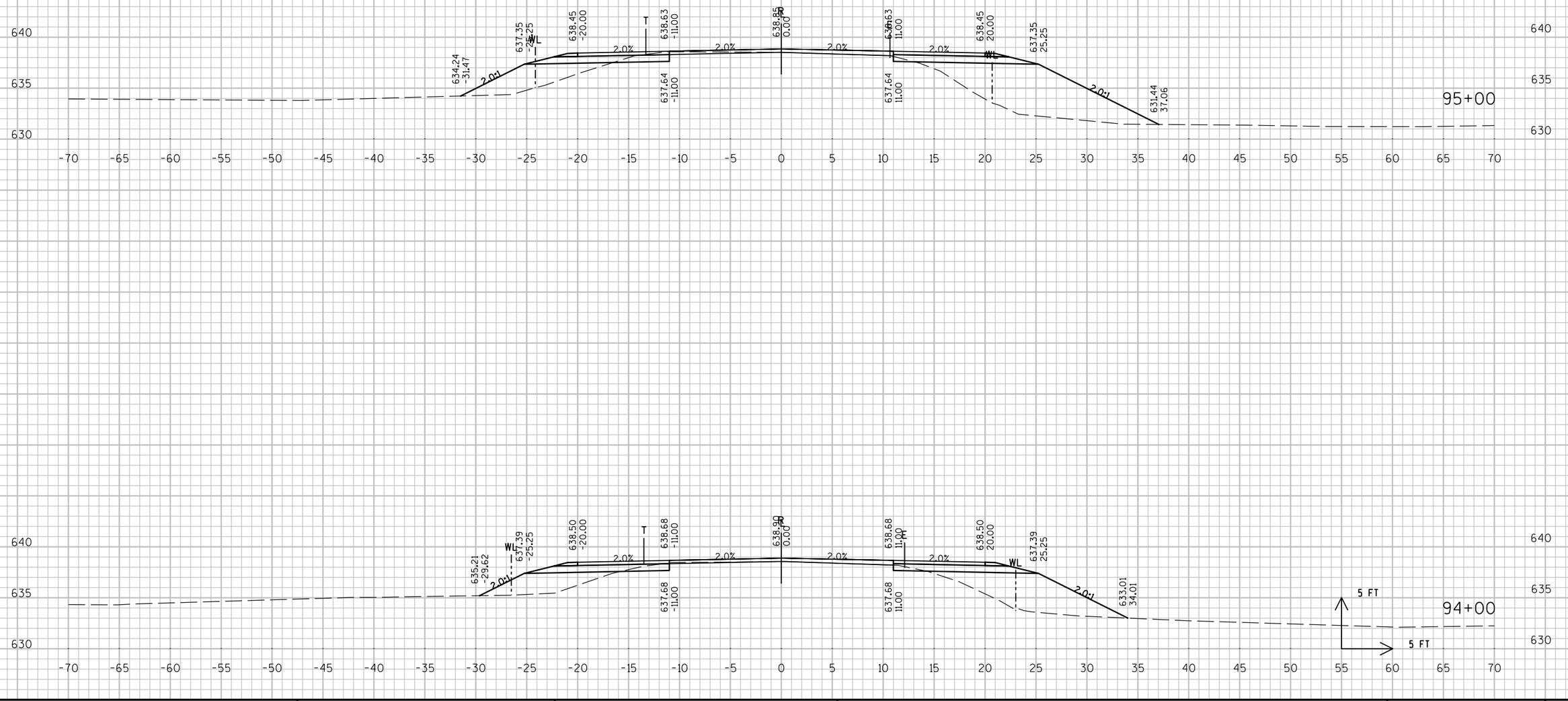
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PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

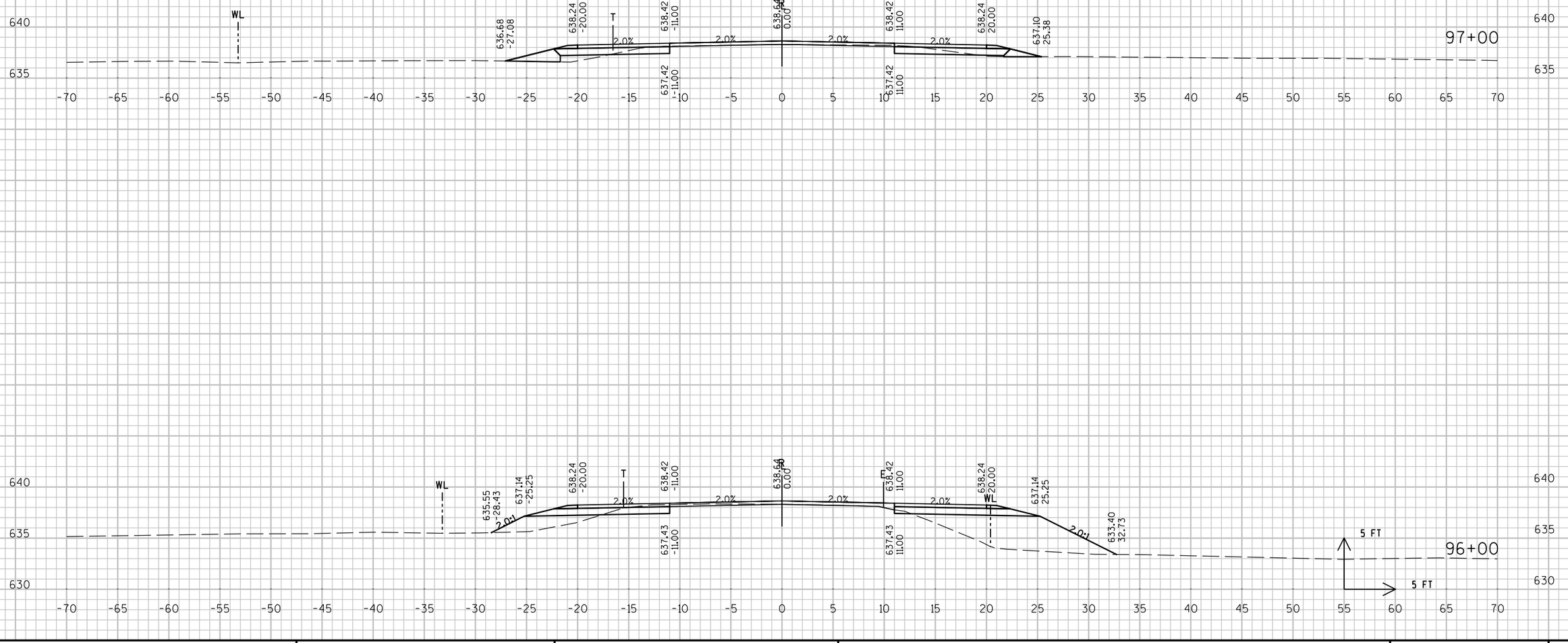


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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 254	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 3/28/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 255	E

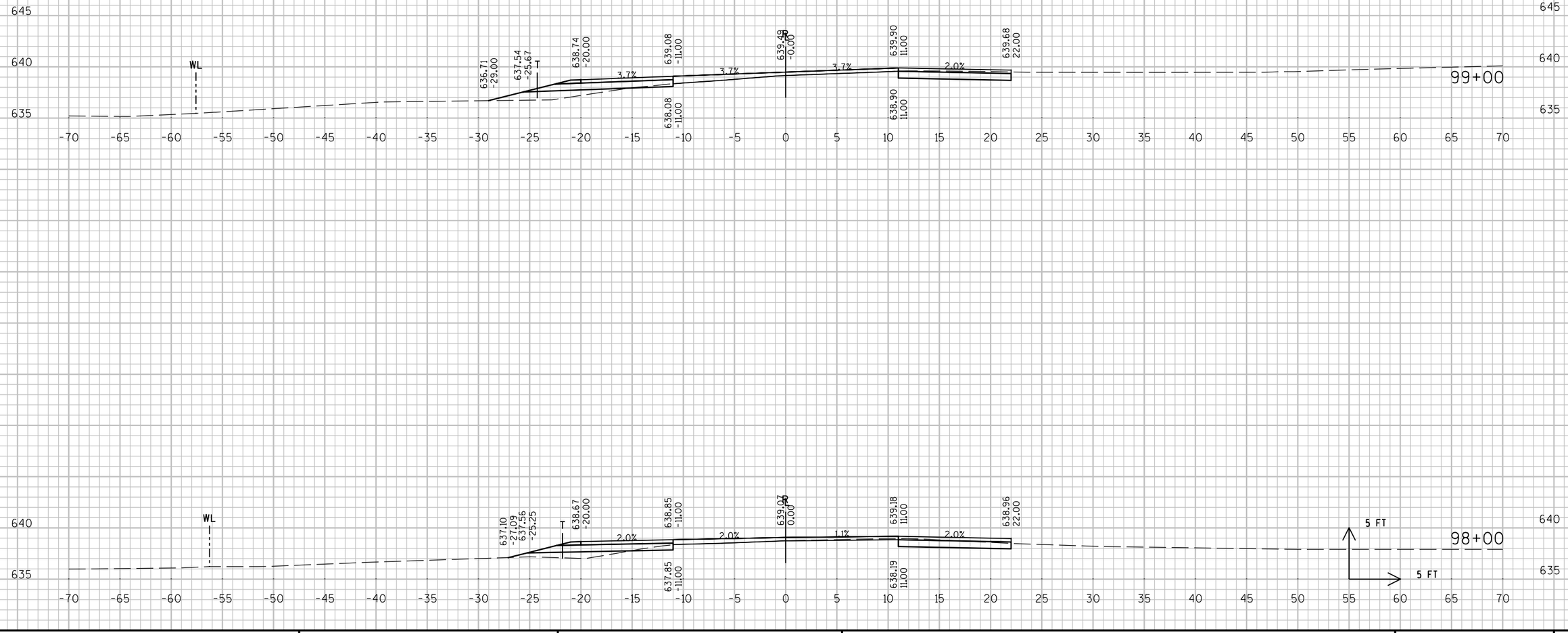
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FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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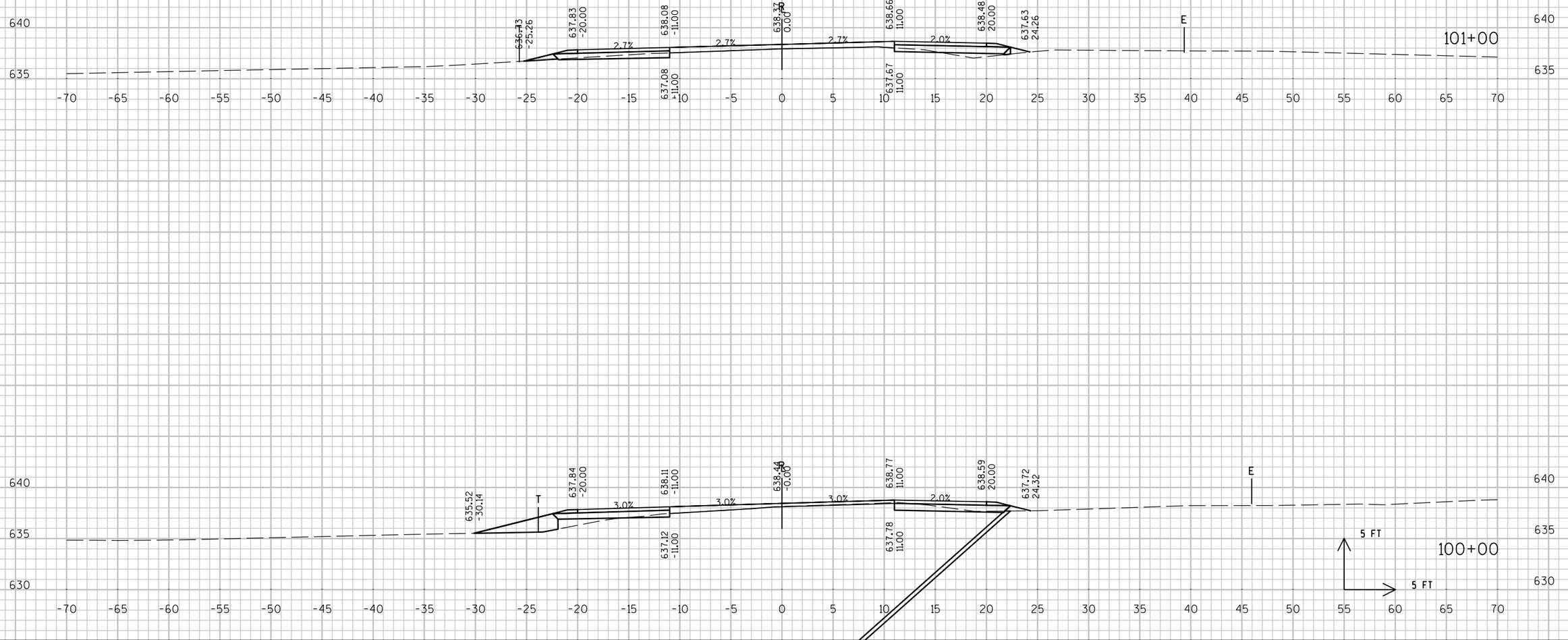
PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 256	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

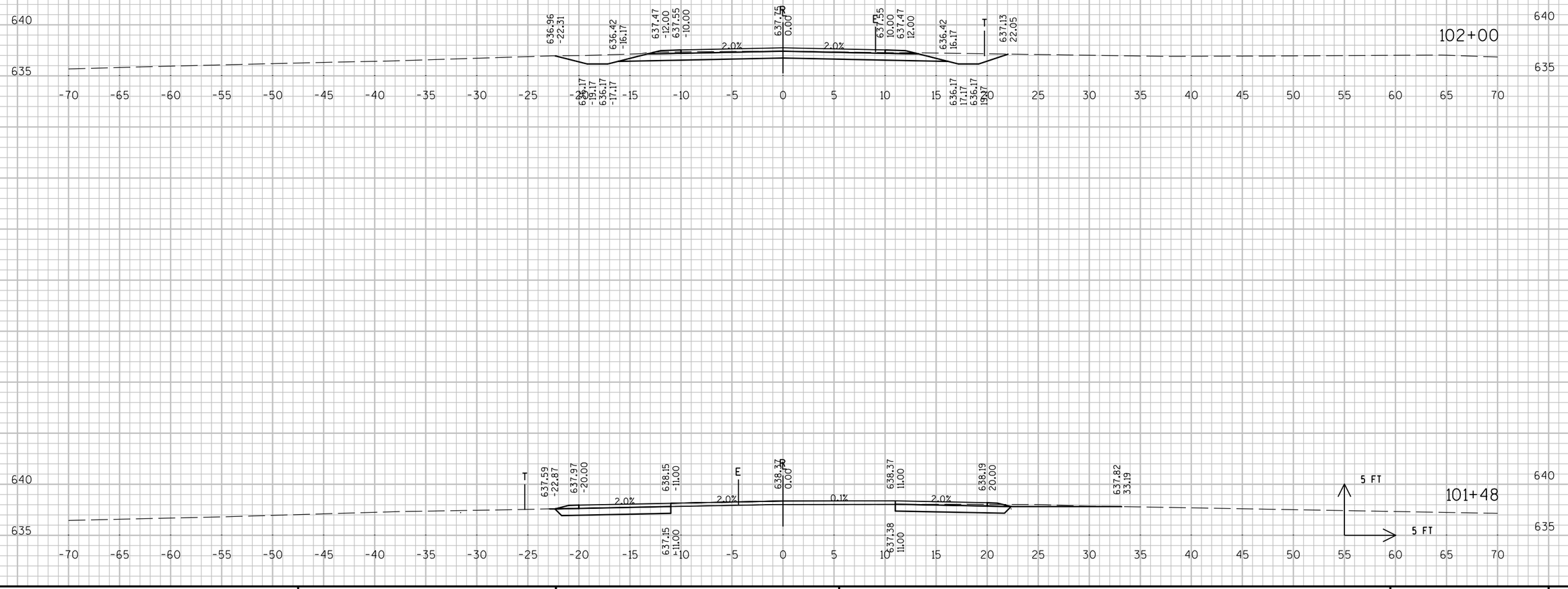


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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 257	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 3/28/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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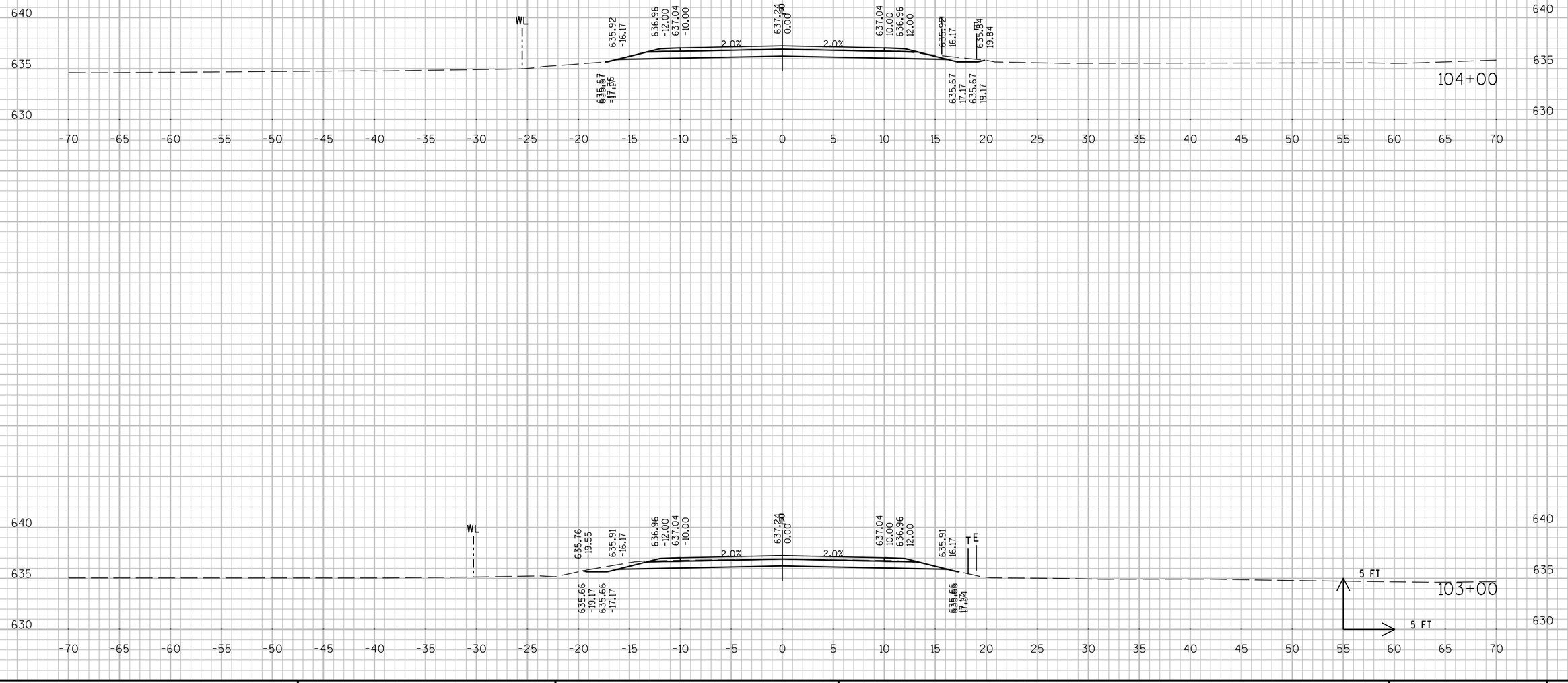
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FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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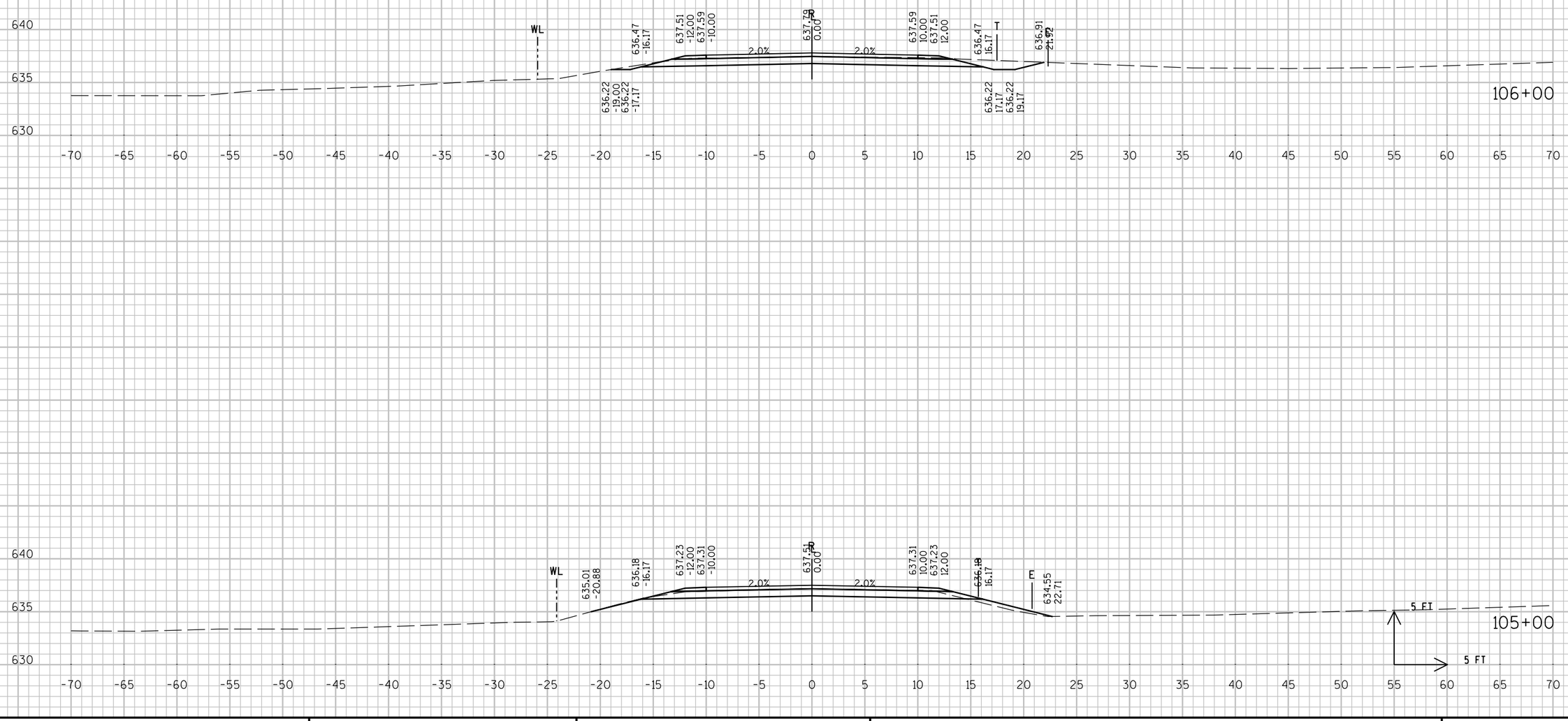
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FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 260	E

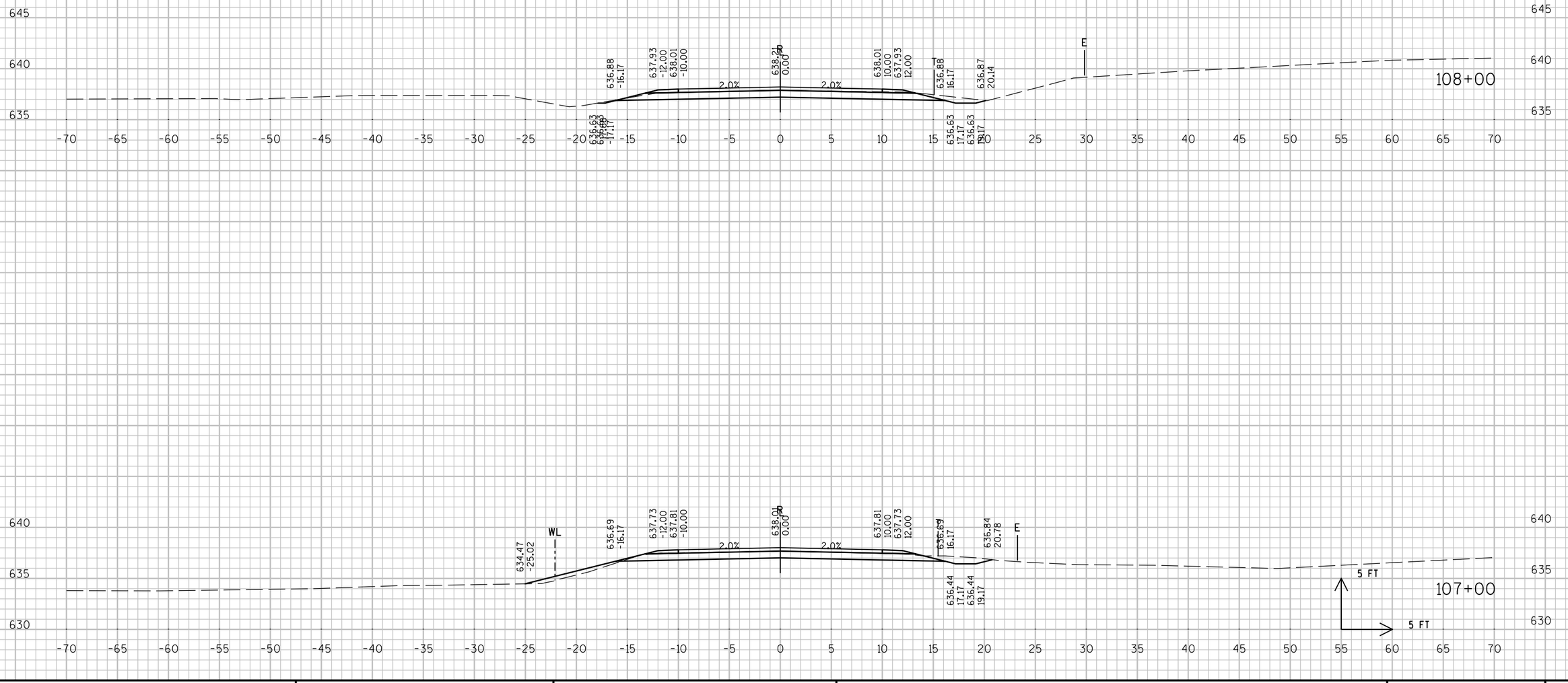
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PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 261	E

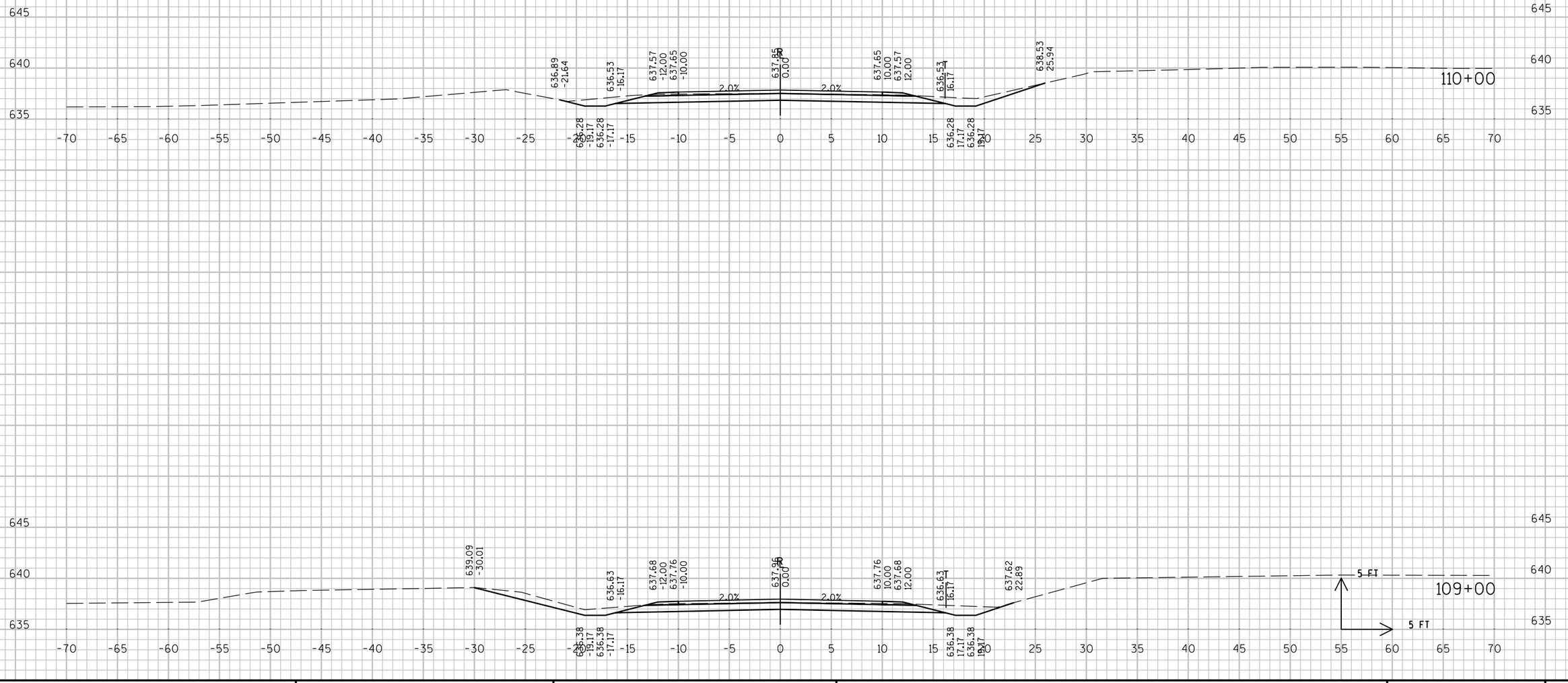
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PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

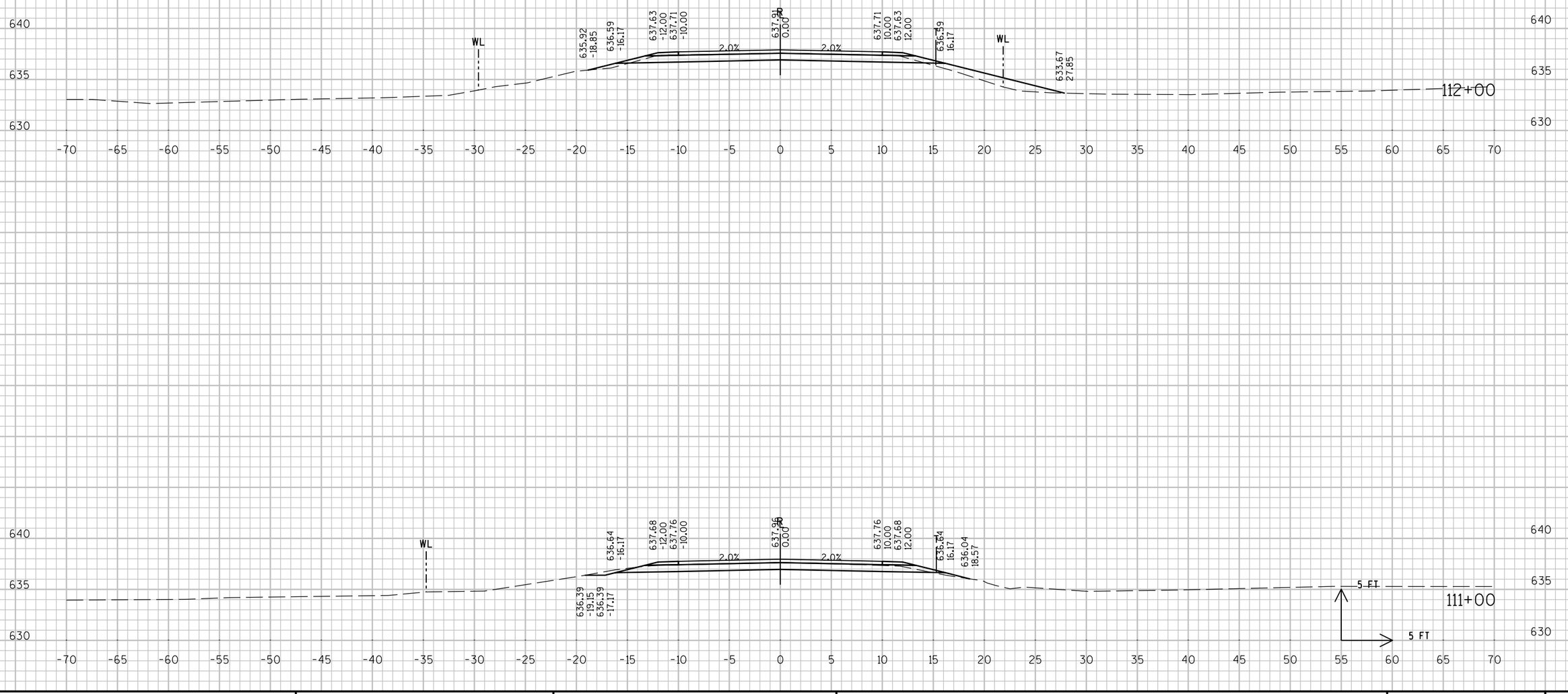


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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 262	E

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WISDOT/CADDS SHEET 21



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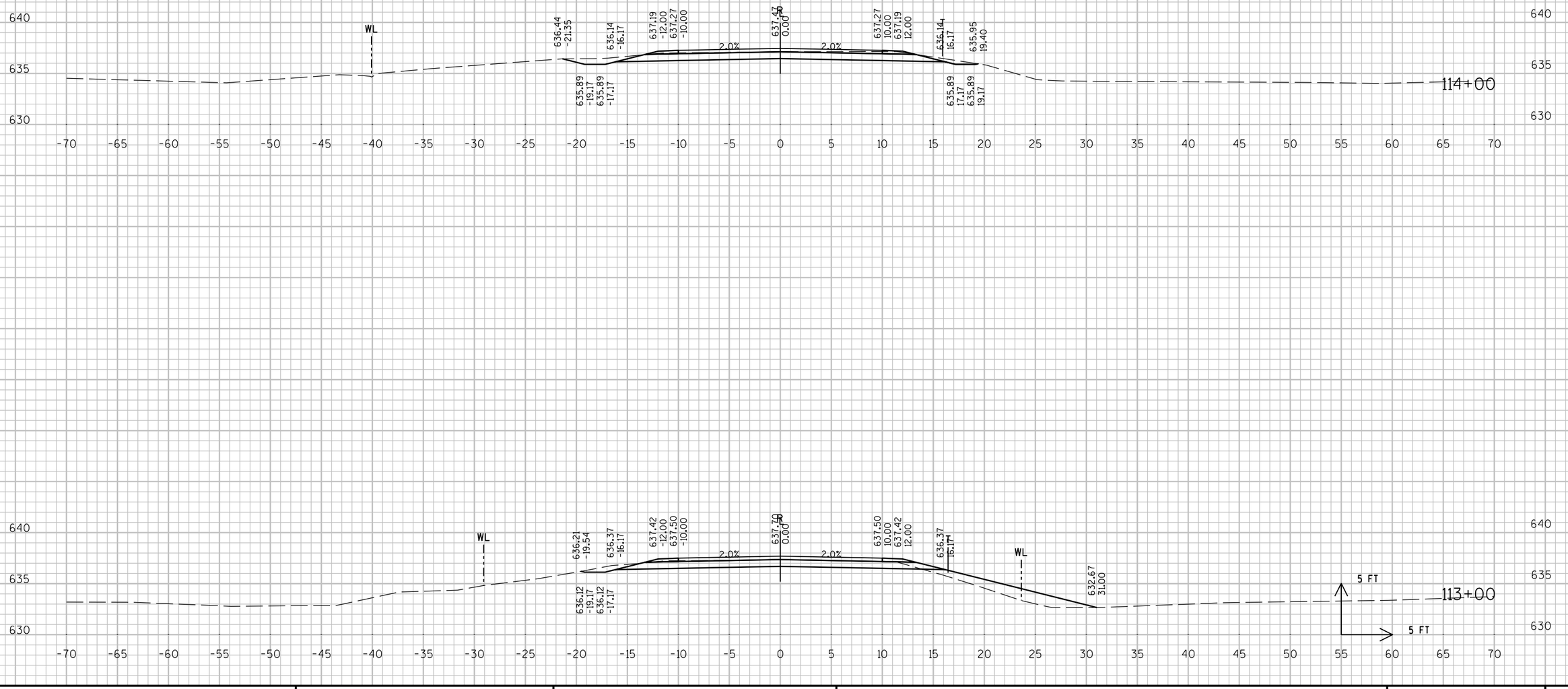
PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 263	E

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PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



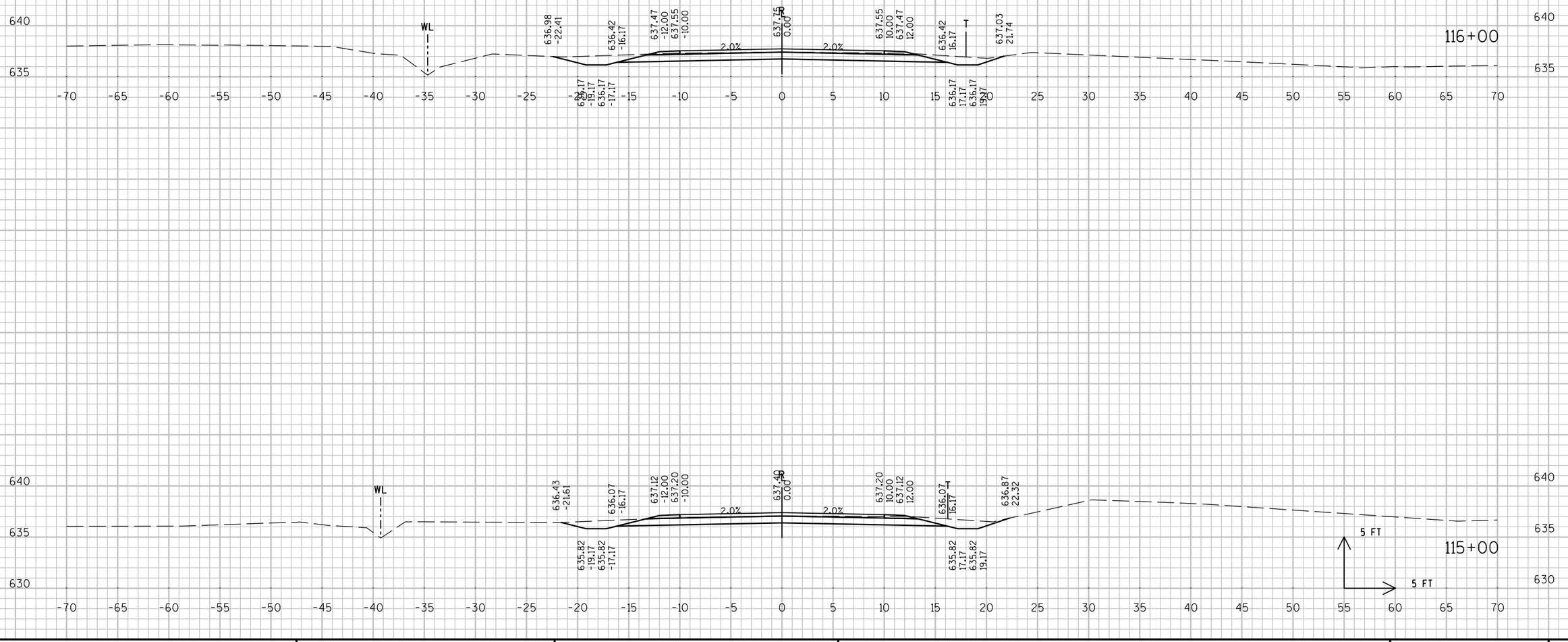
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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 264	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 3/28/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

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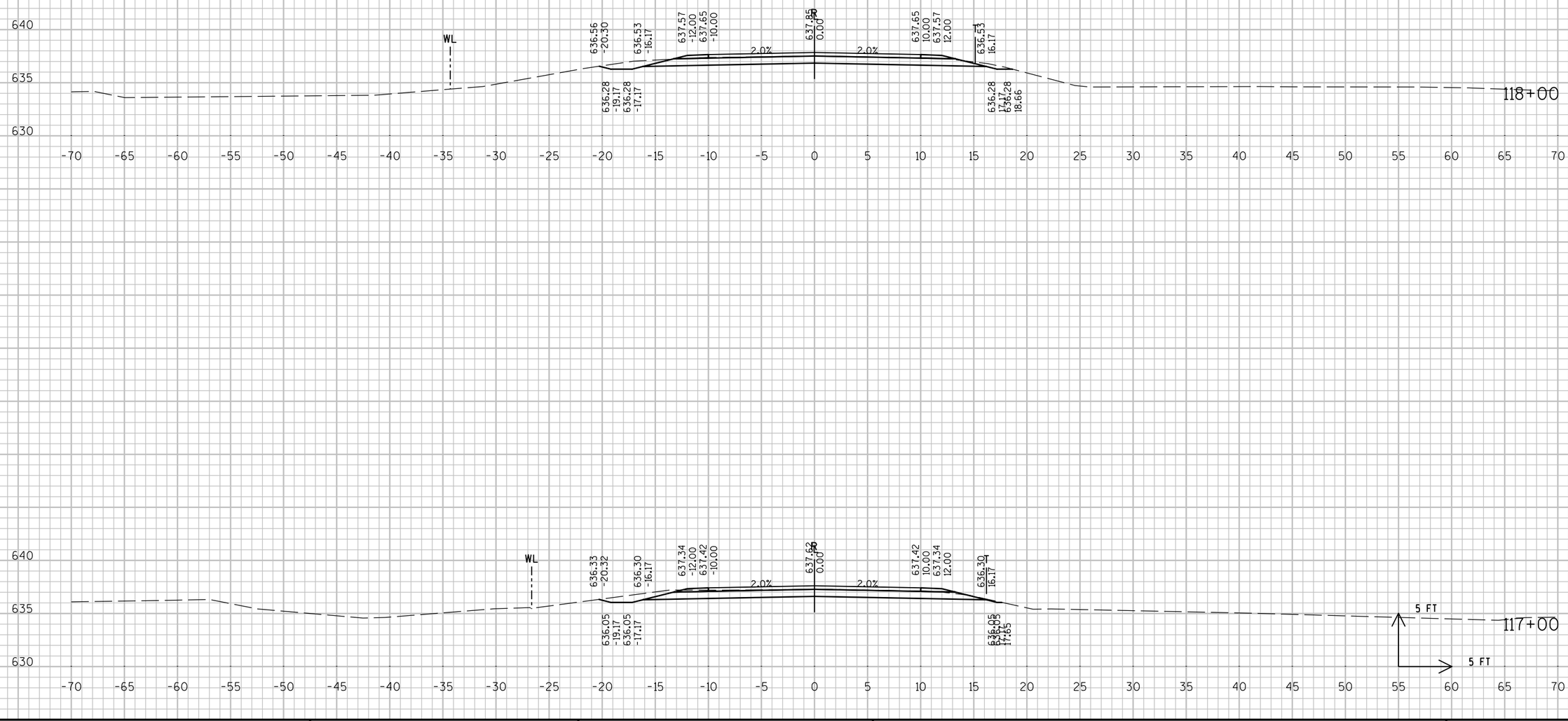


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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 265	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 3/28/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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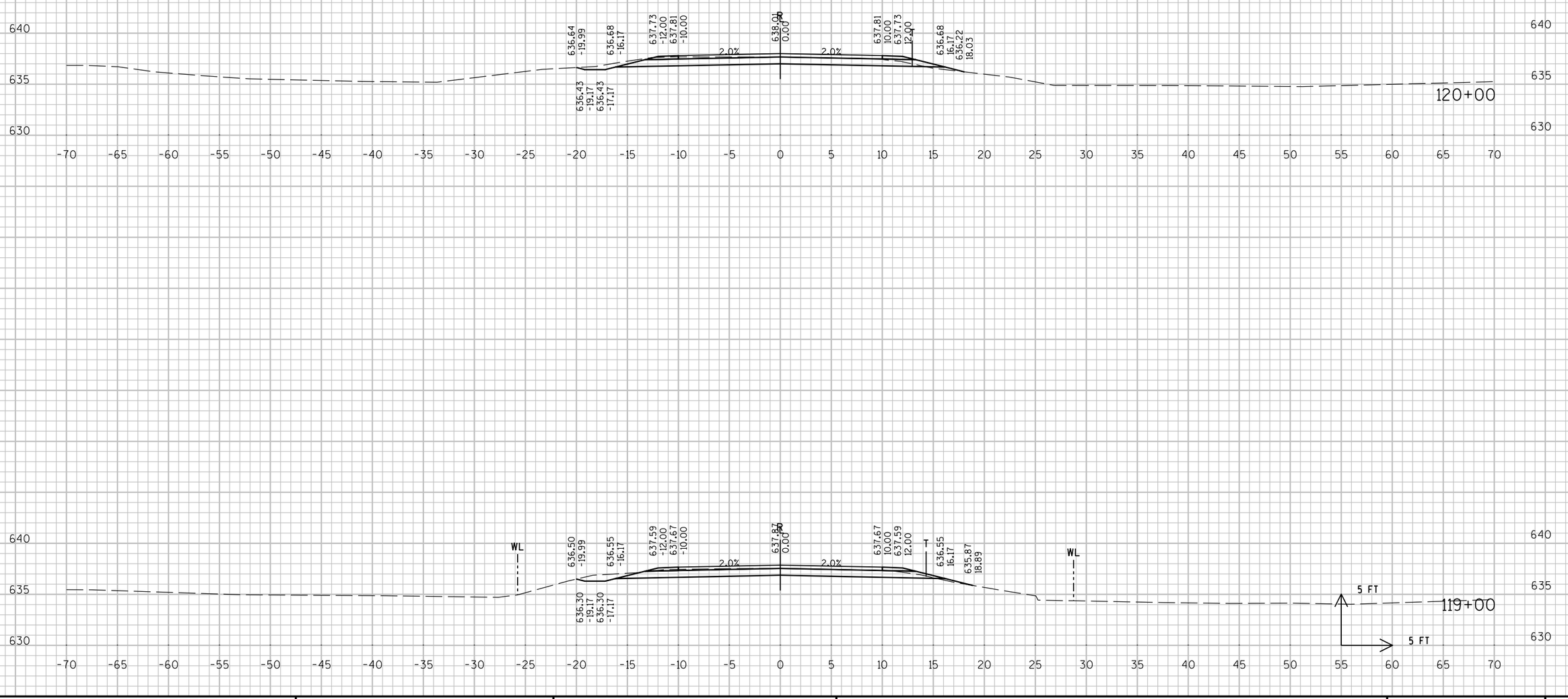
PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 266	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 267	E

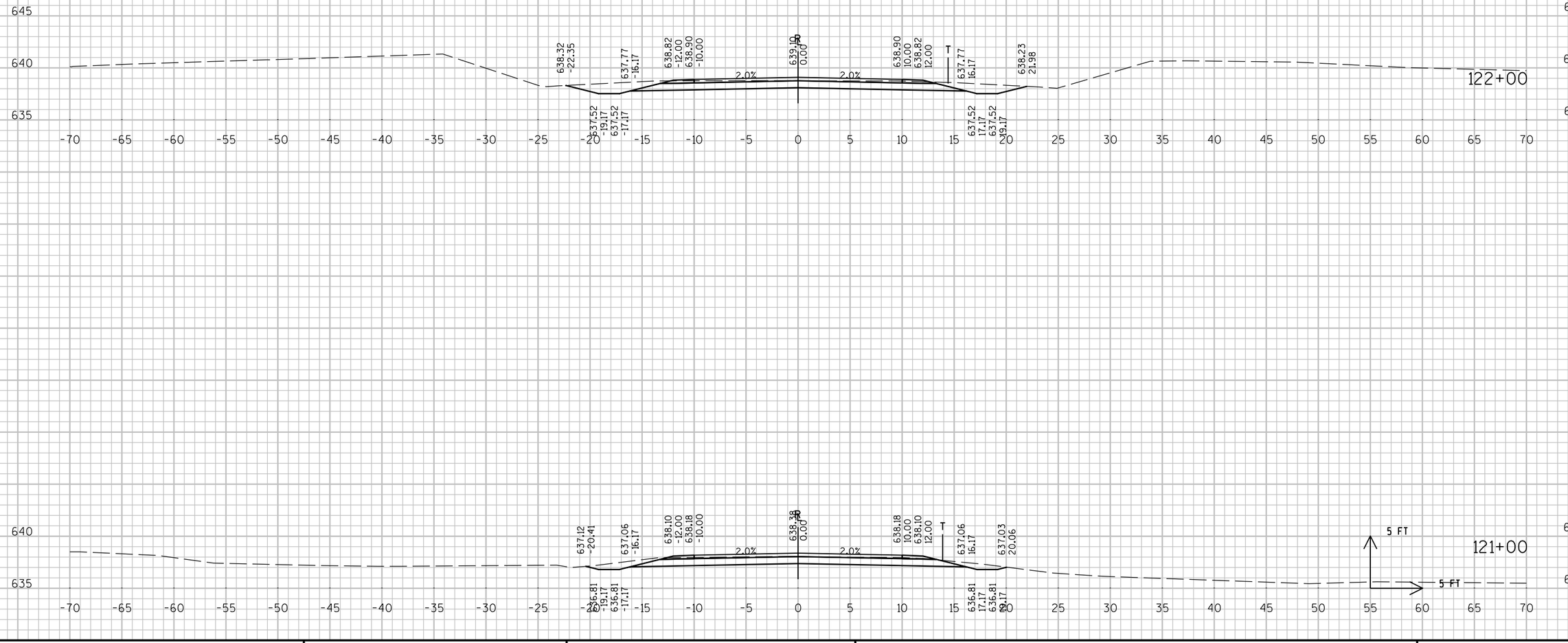
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FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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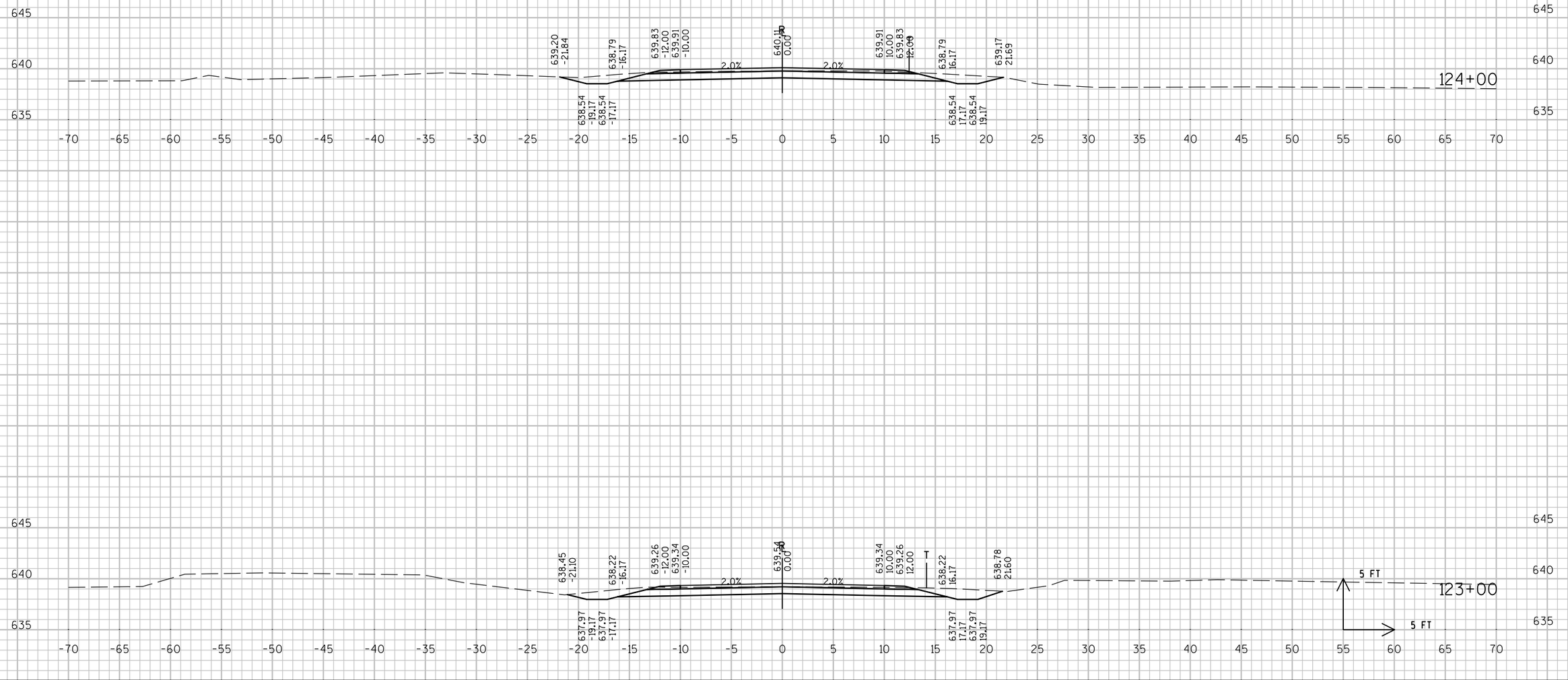
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FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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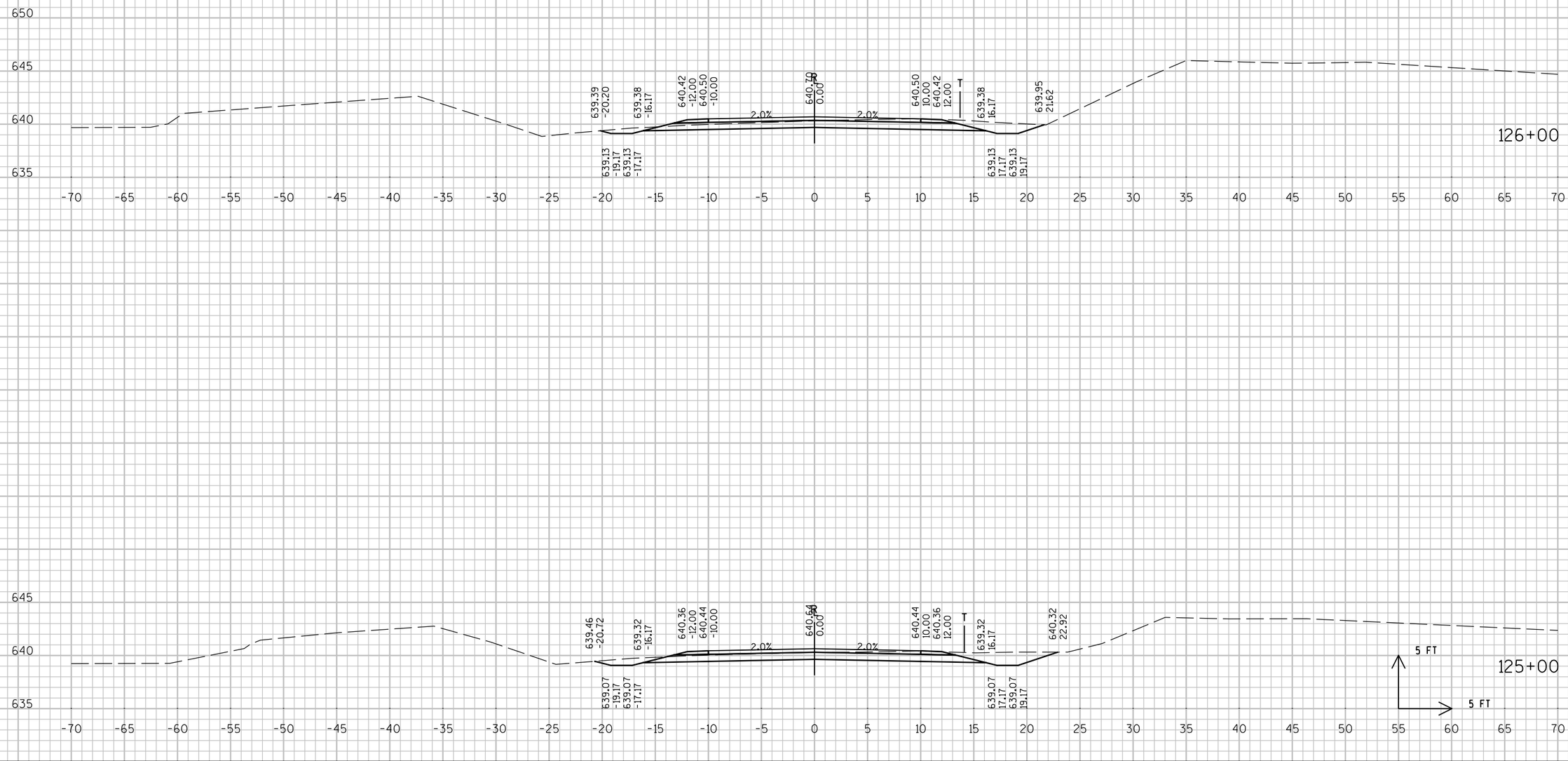
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PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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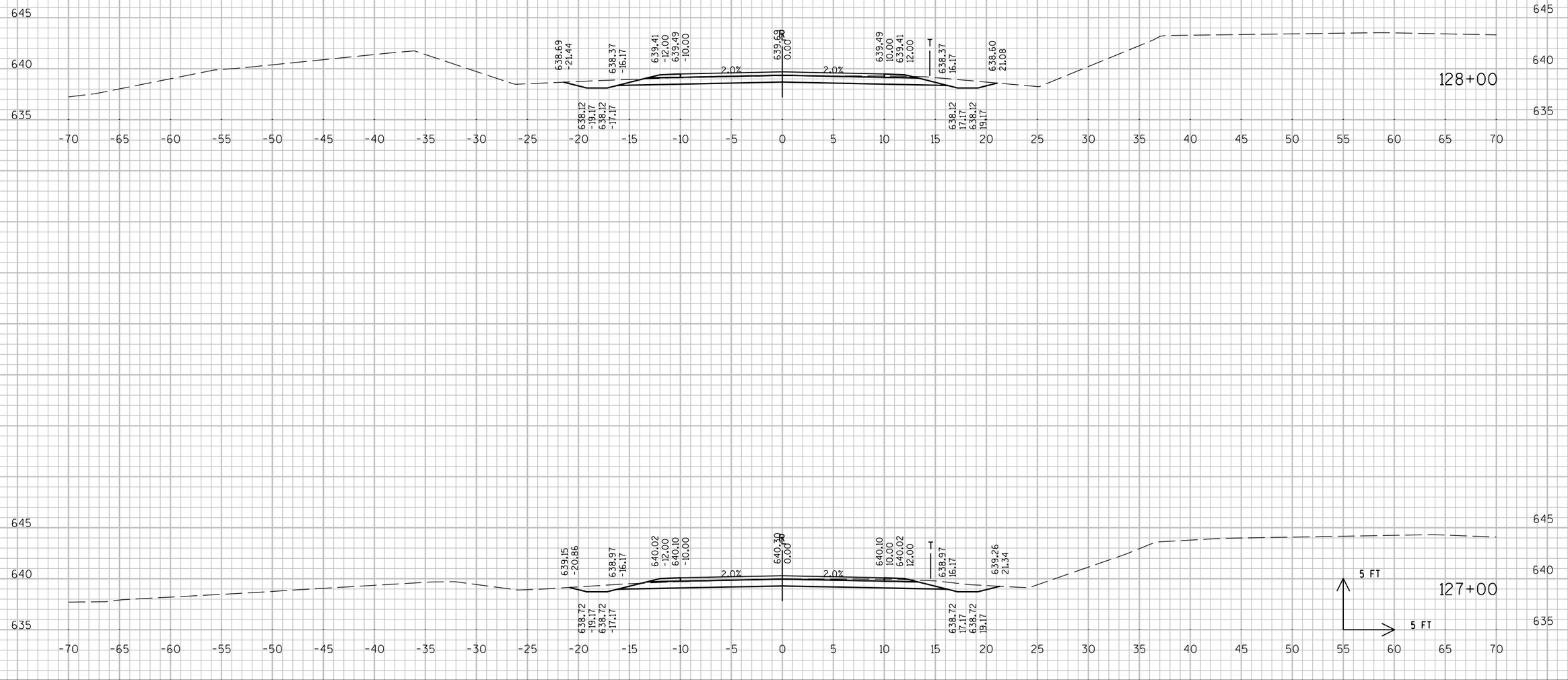
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FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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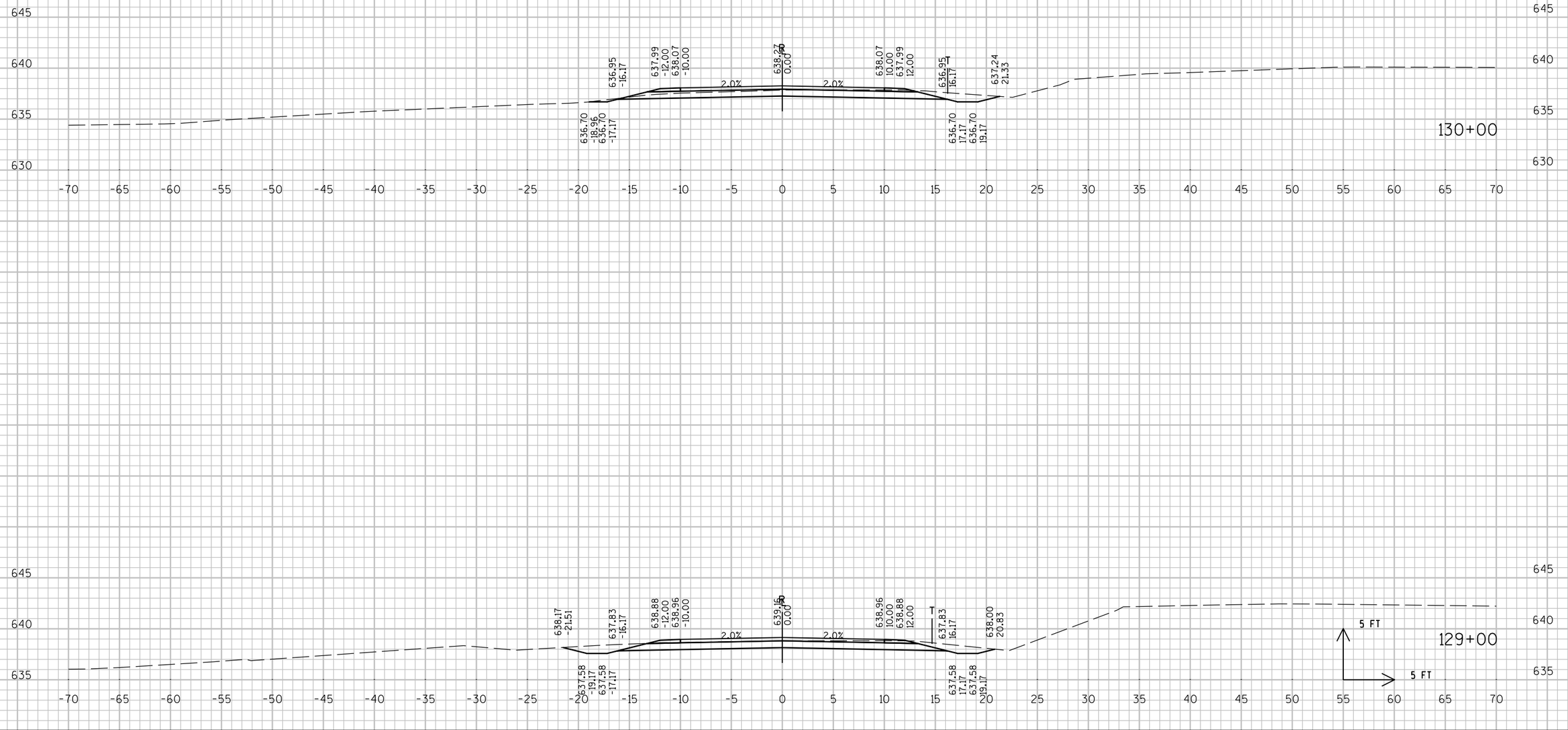
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PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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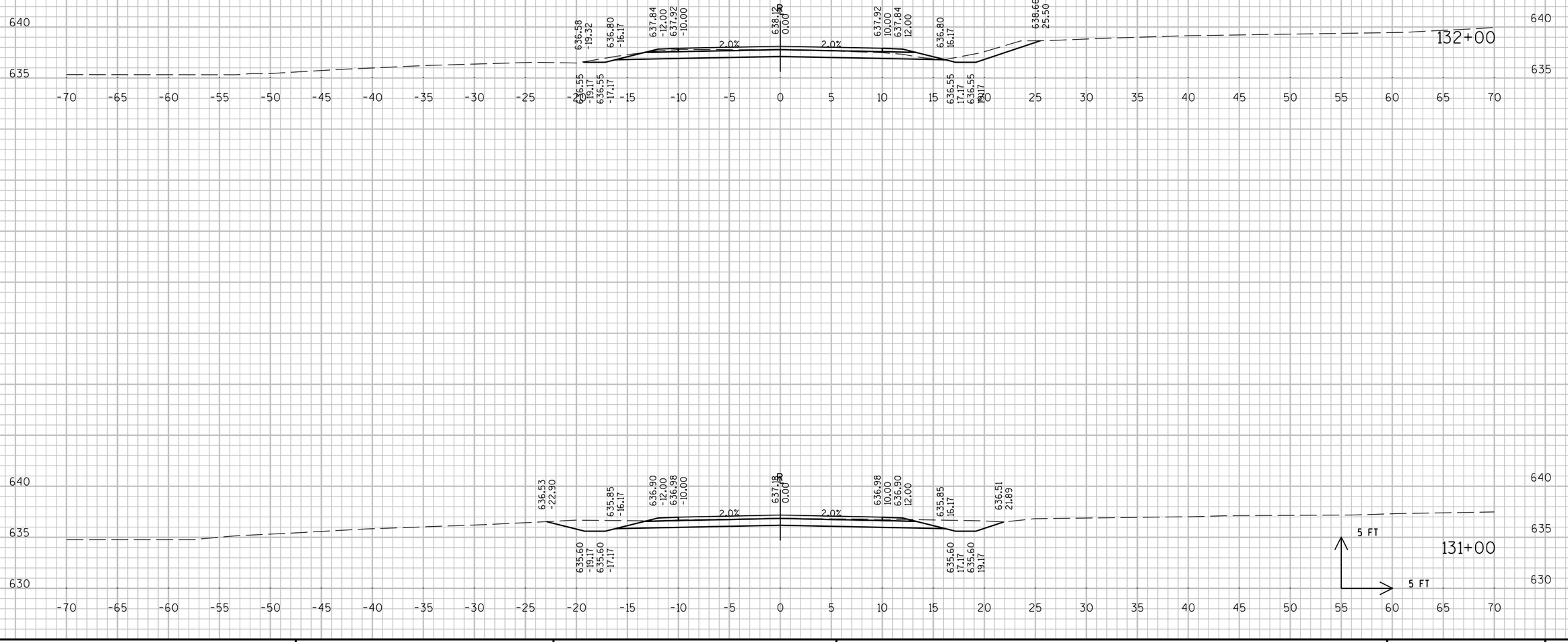
PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 272	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

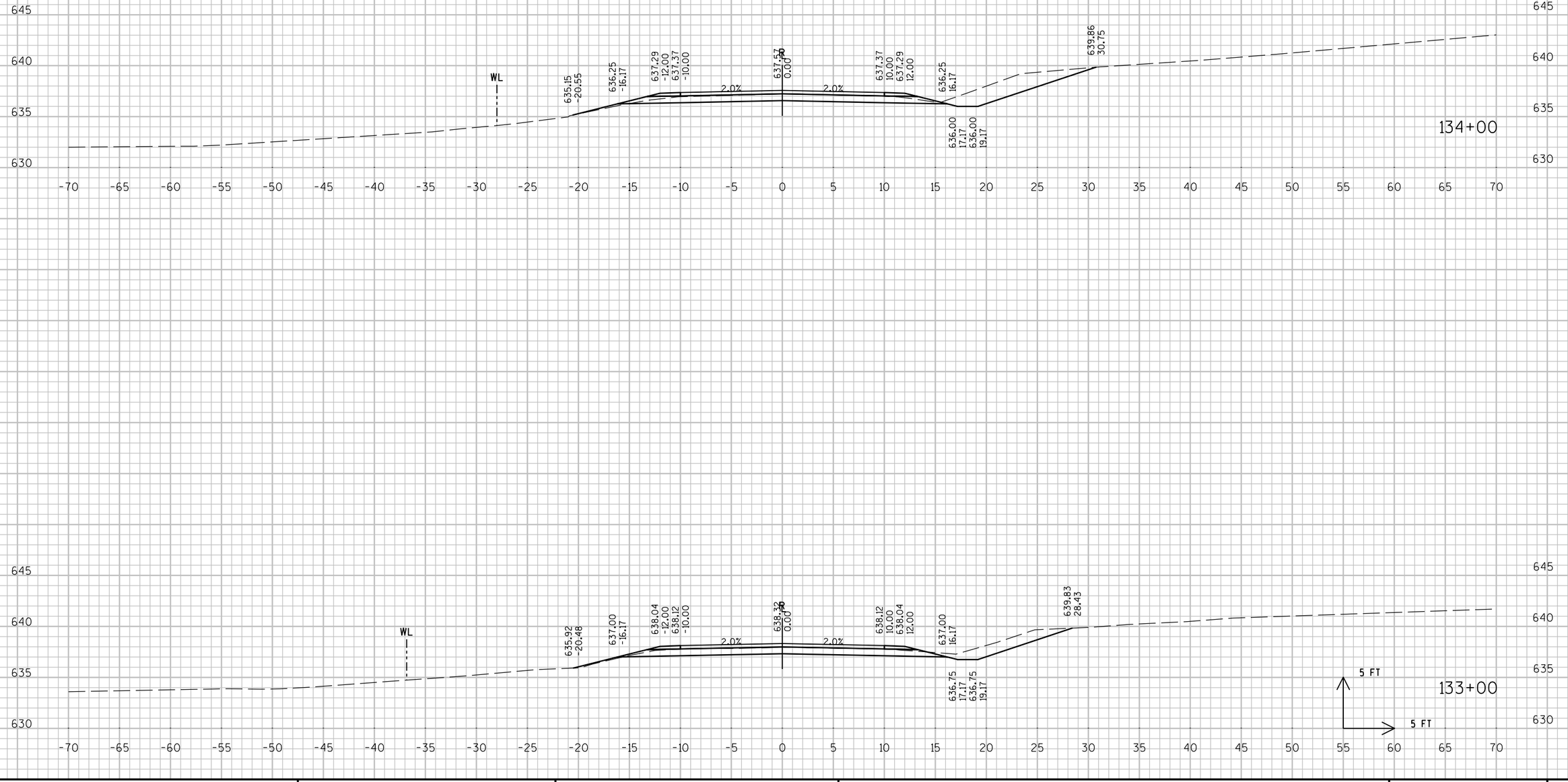


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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 273	E

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WISDOT/CADDS SHEET 21

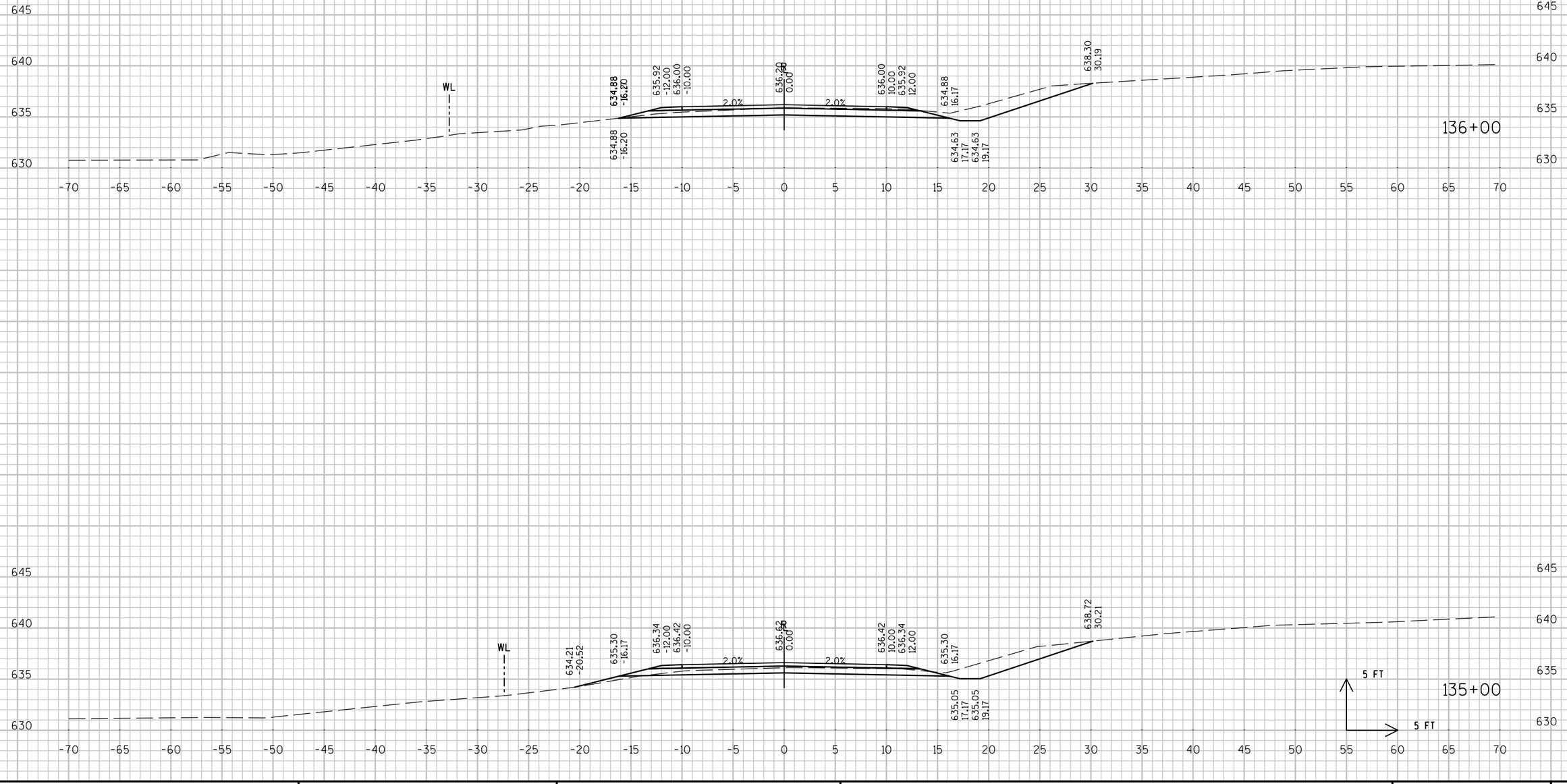


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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 274	E

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WISDOT/CADDS SHEET 21

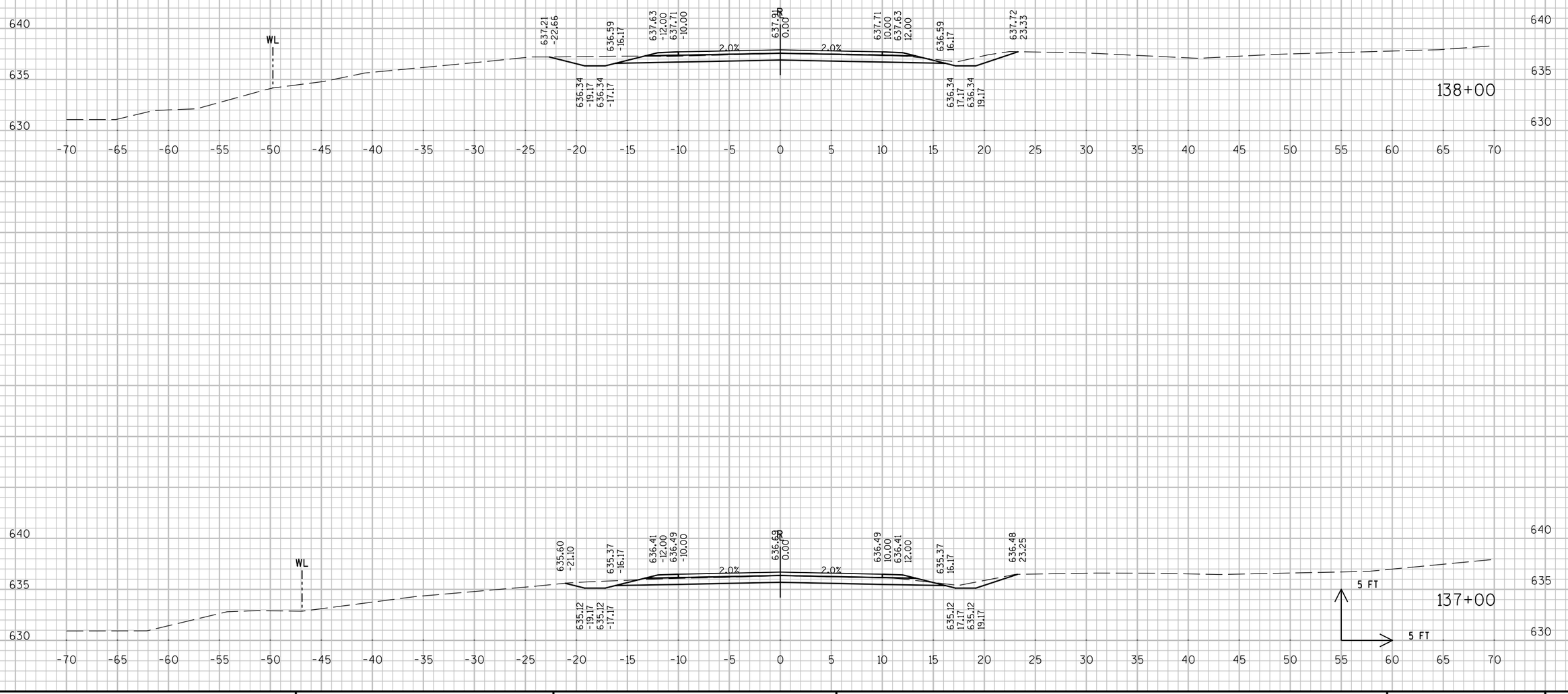


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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 275	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 3/28/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 276	E

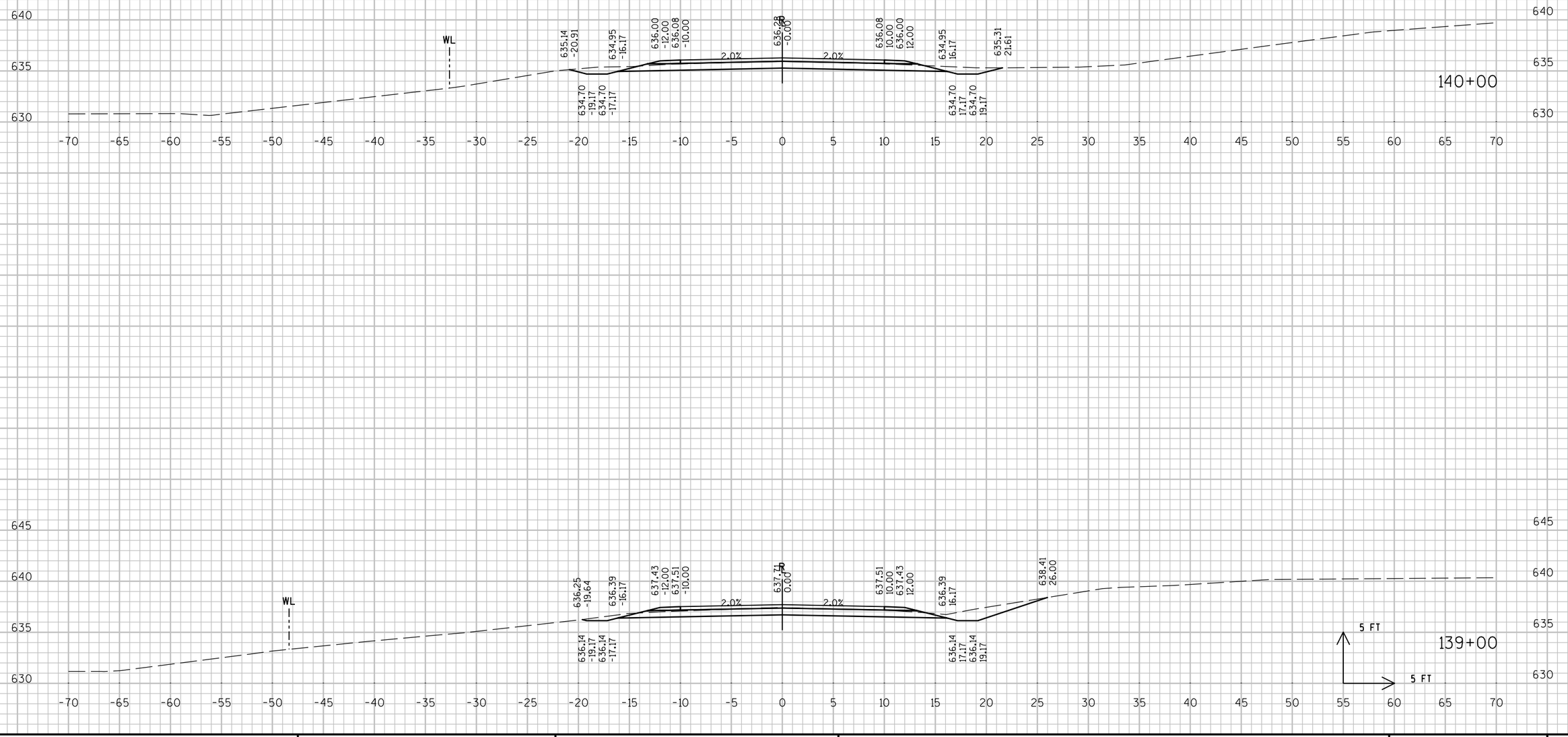
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PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

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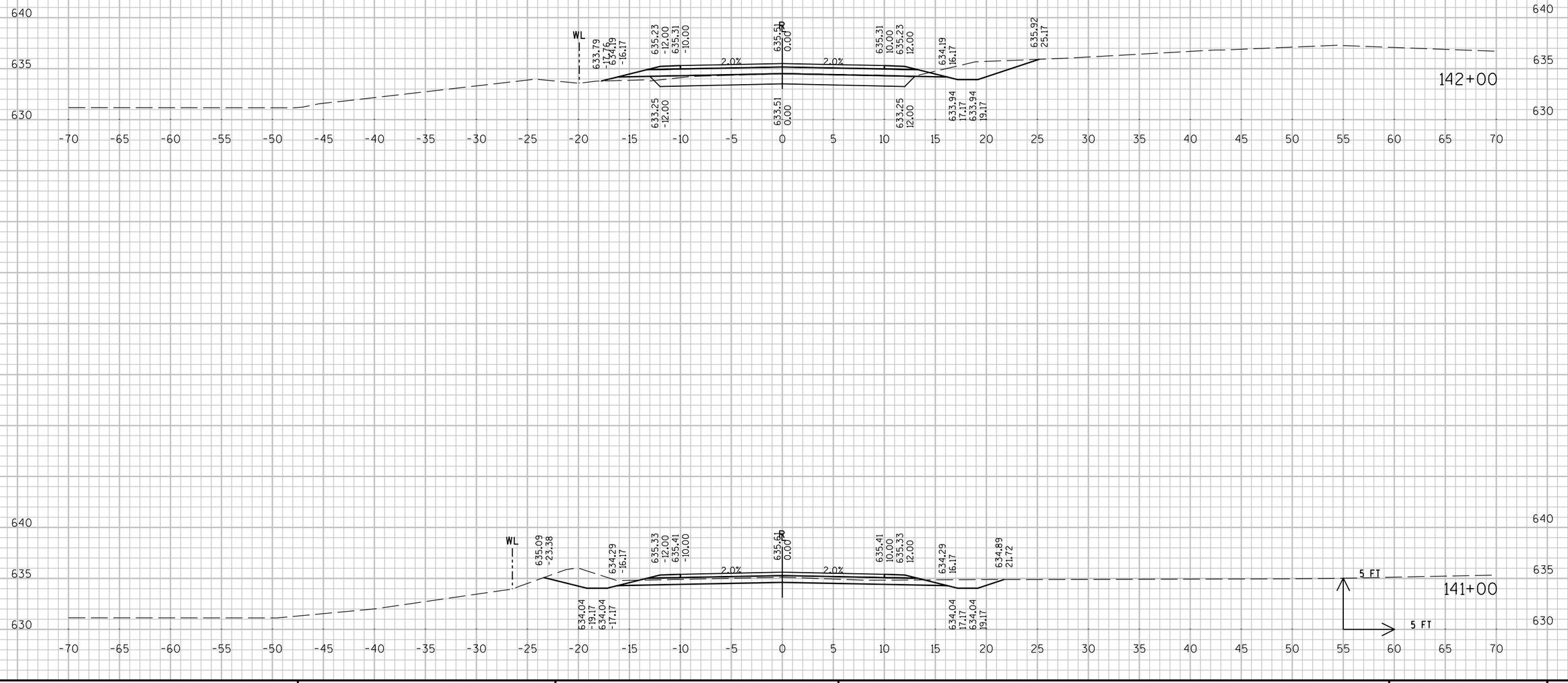


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PROJECT NO: 5085-00-70	HWY: CTH GI	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 277	E

FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 3/28/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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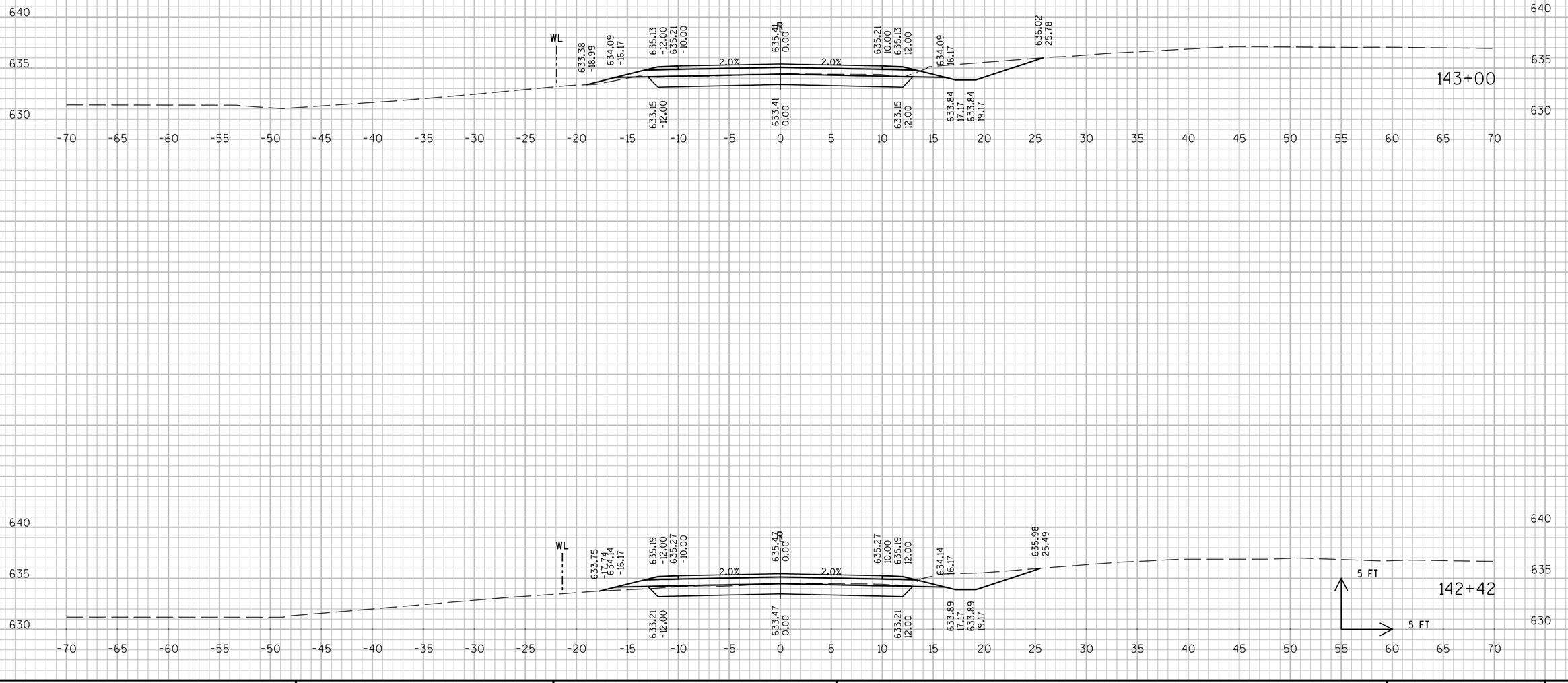
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FILE NAME : P:\LACRO\ - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 3/28/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

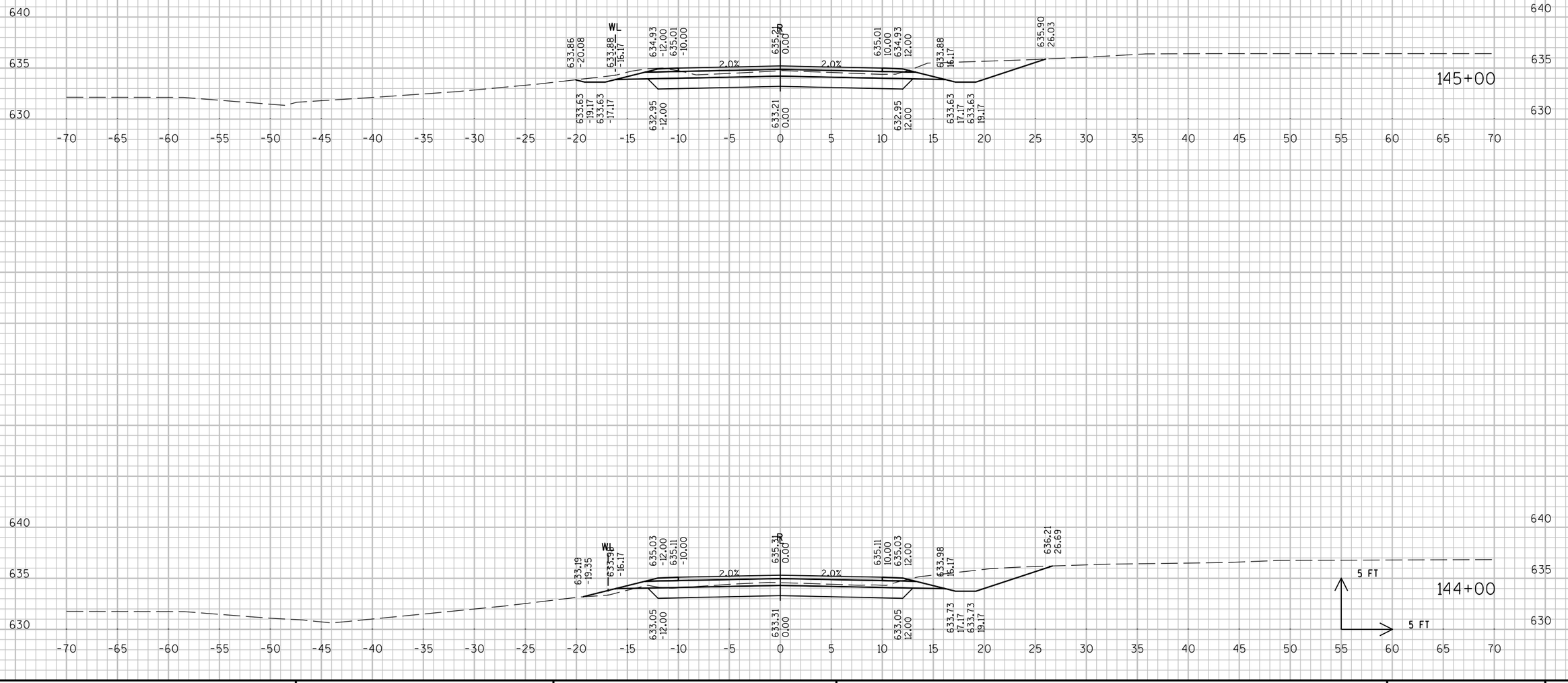


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PROJECT NO: 5085-00-70	HWY: HUNTERS POINT RD	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 279	E

FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 9/11/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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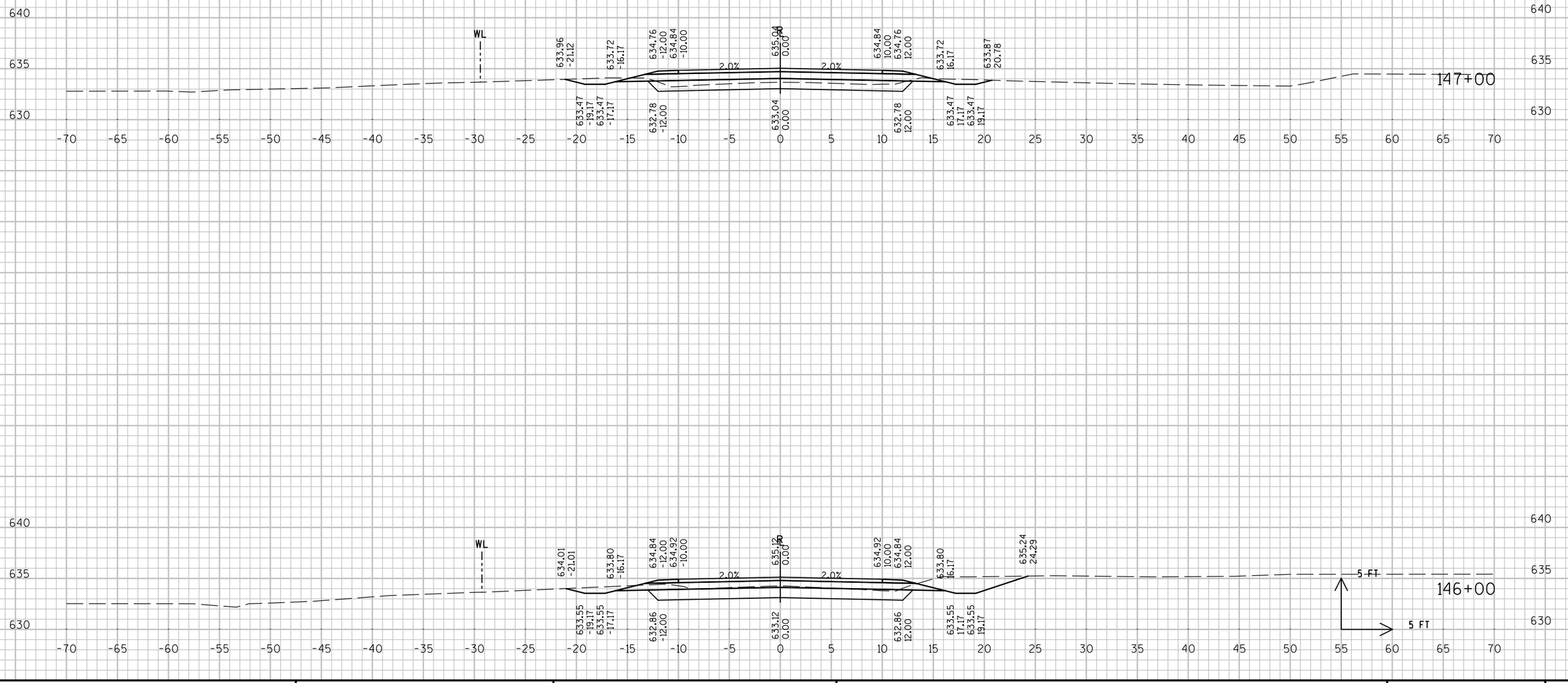
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FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 9/11/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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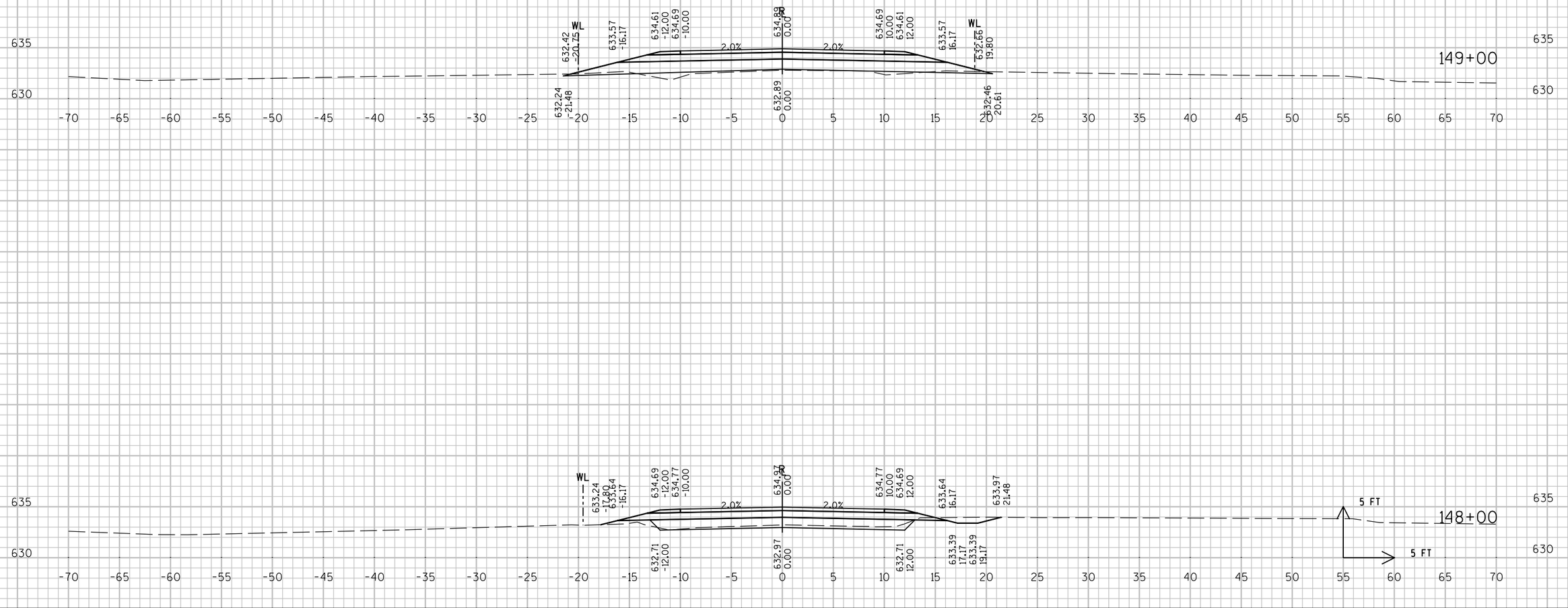
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FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 9/11/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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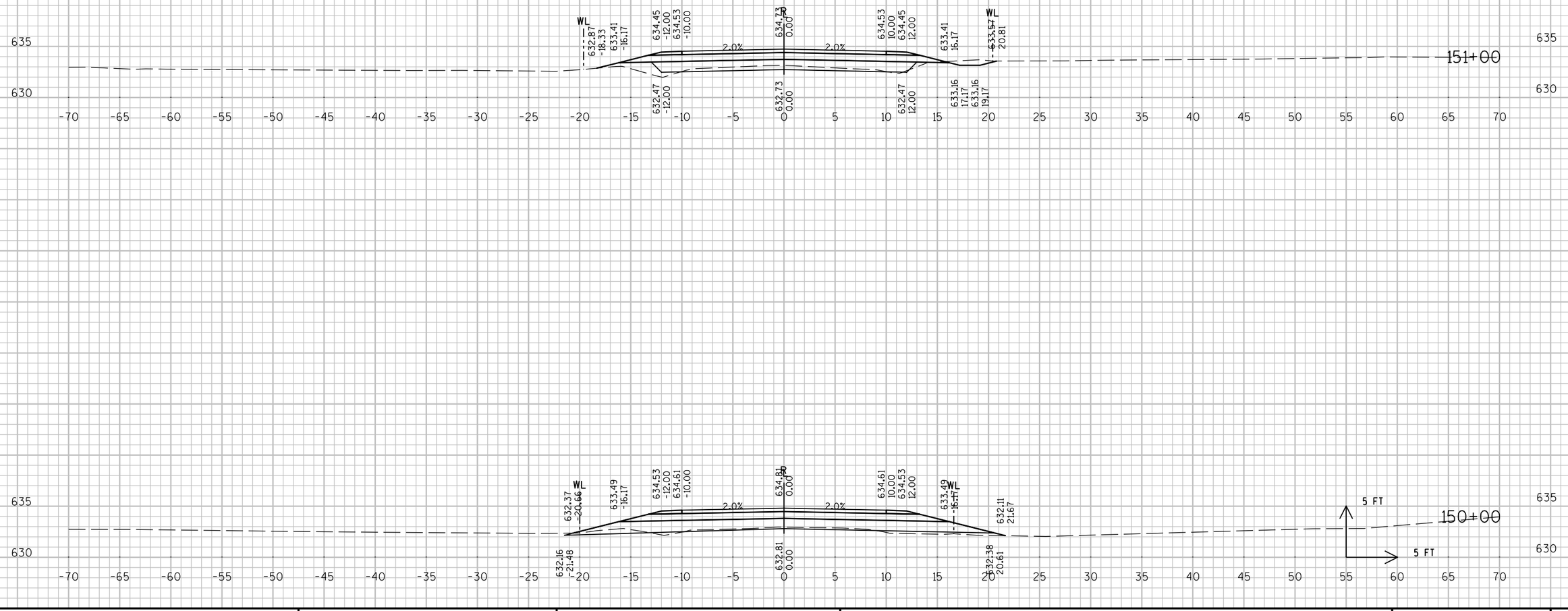
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PLOT DATE : 9/11/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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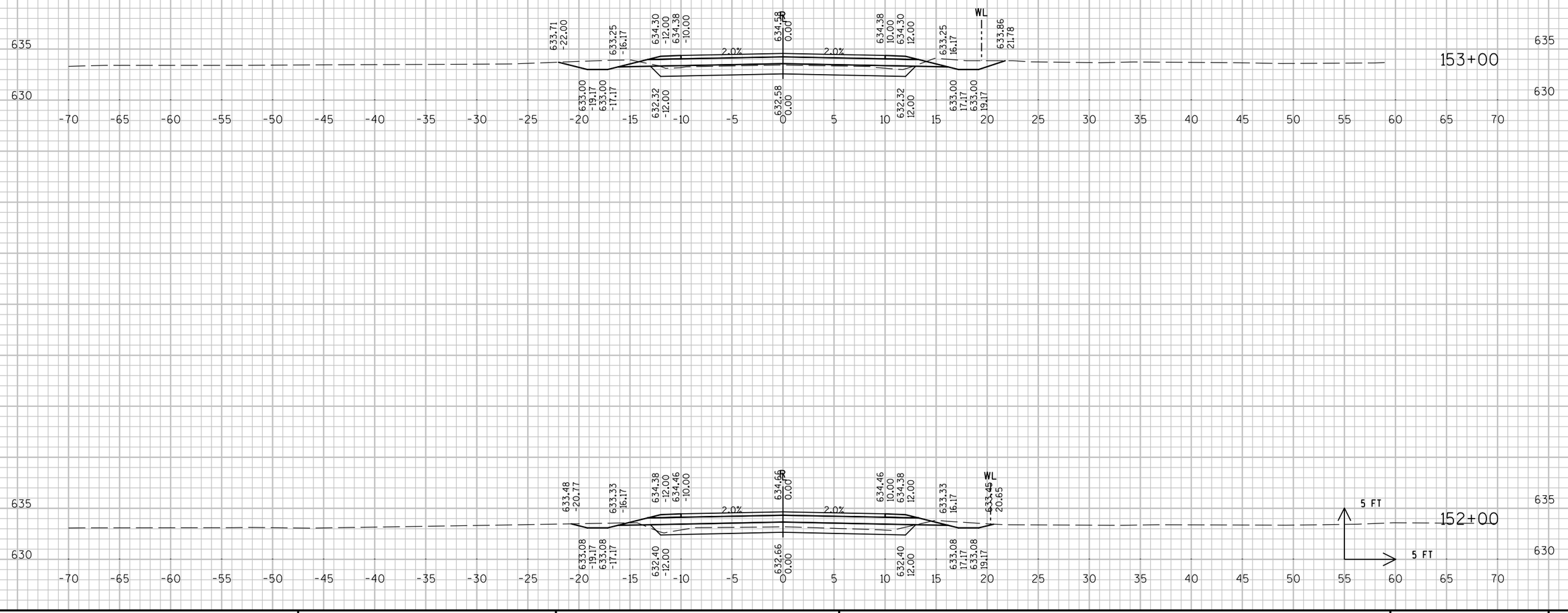
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PLOT DATE : 9/11/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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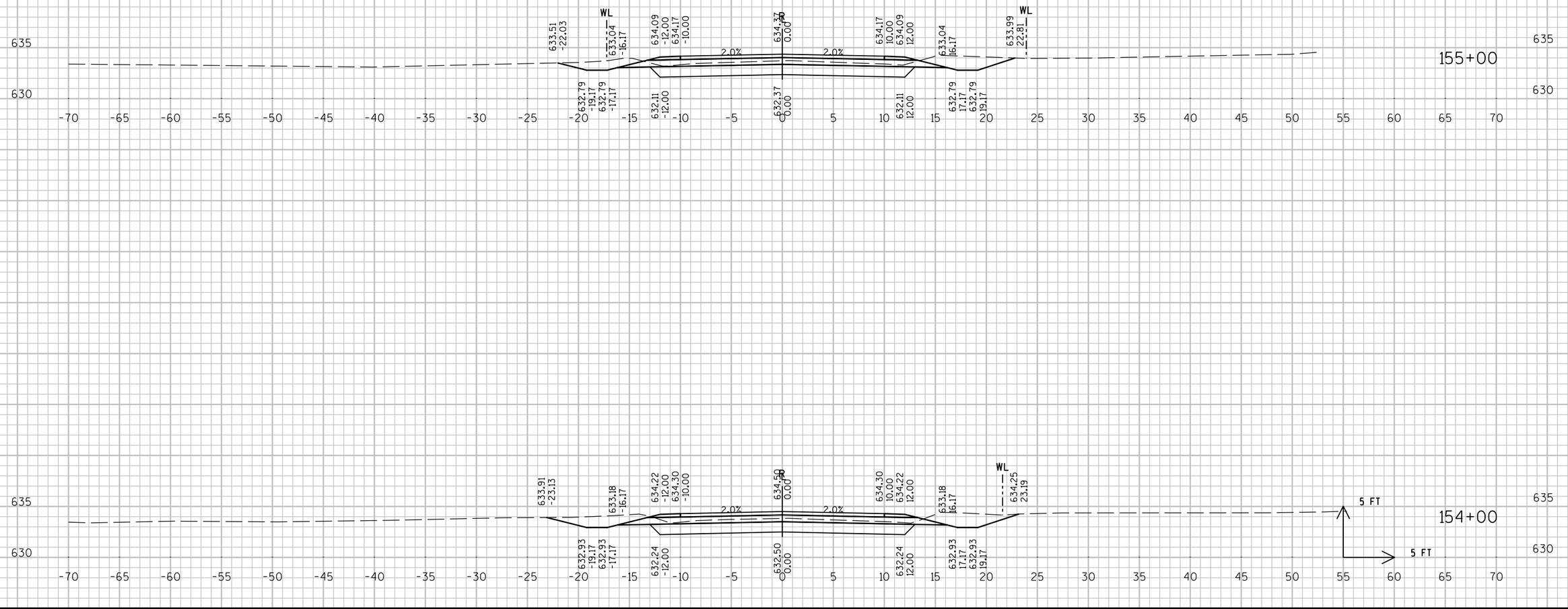
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FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 9/11/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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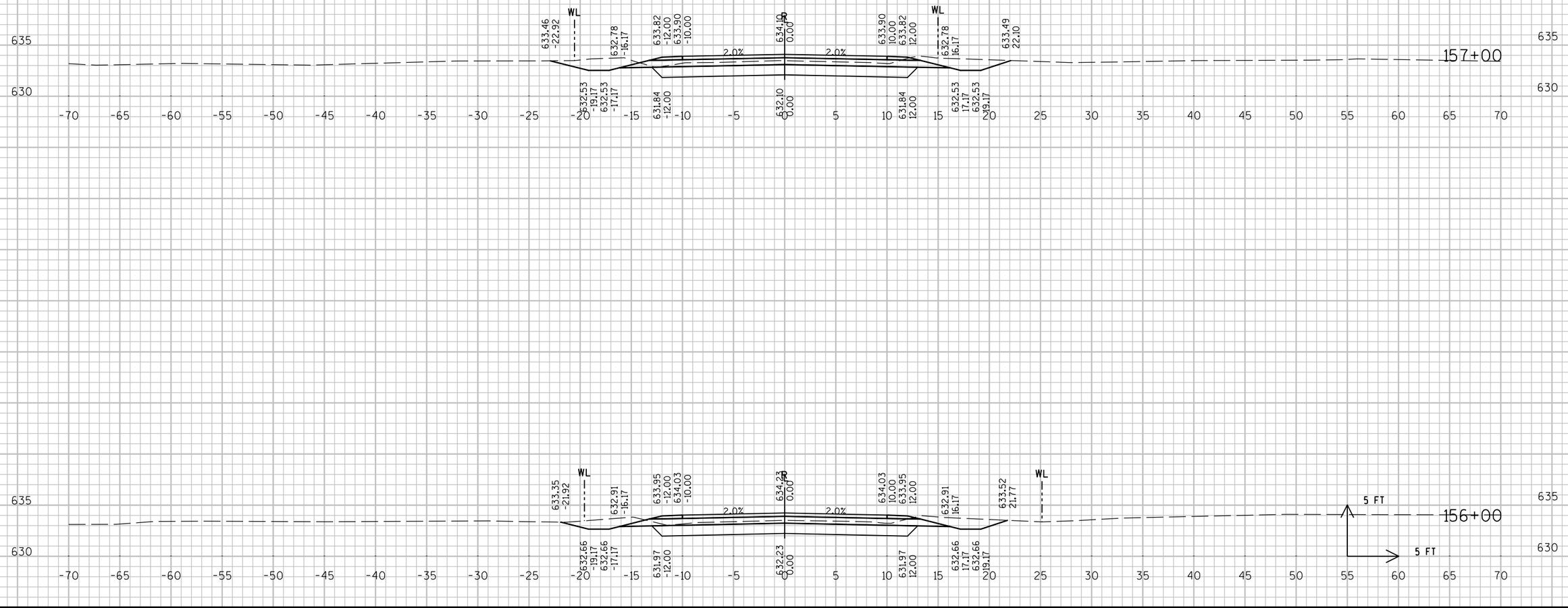
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FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 9/11/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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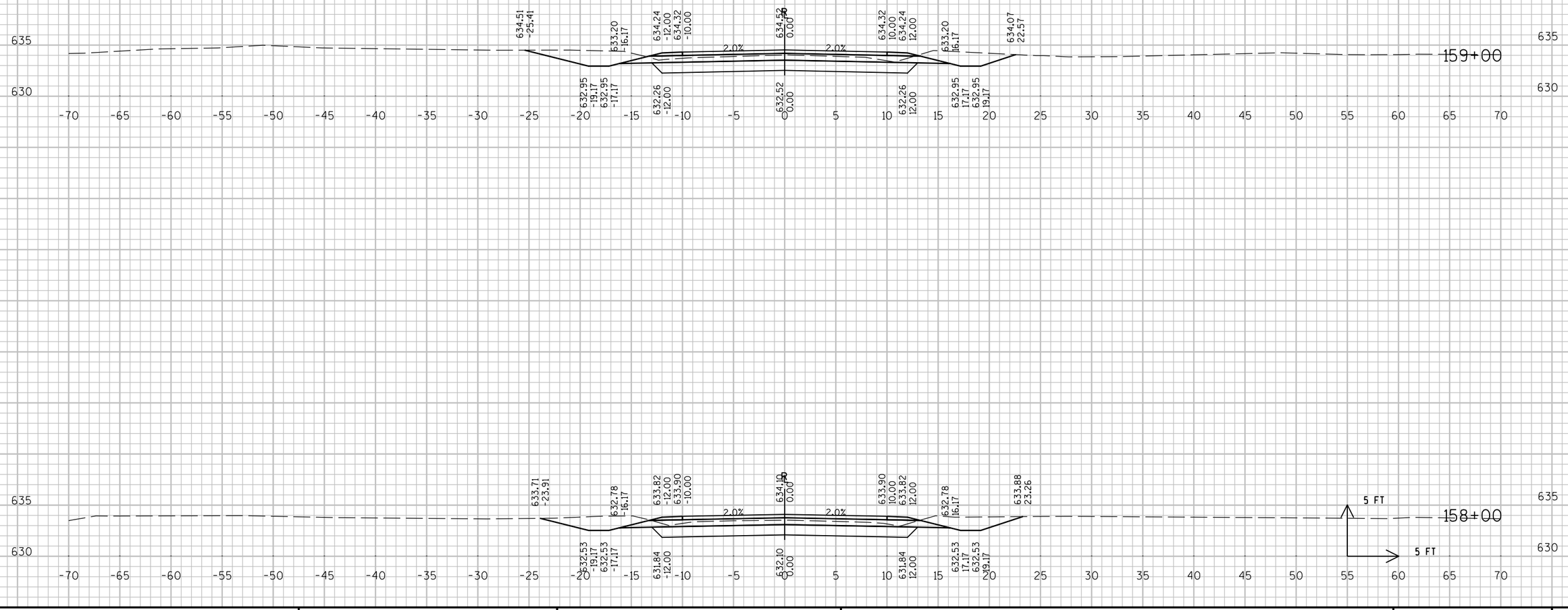
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FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 9/11/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

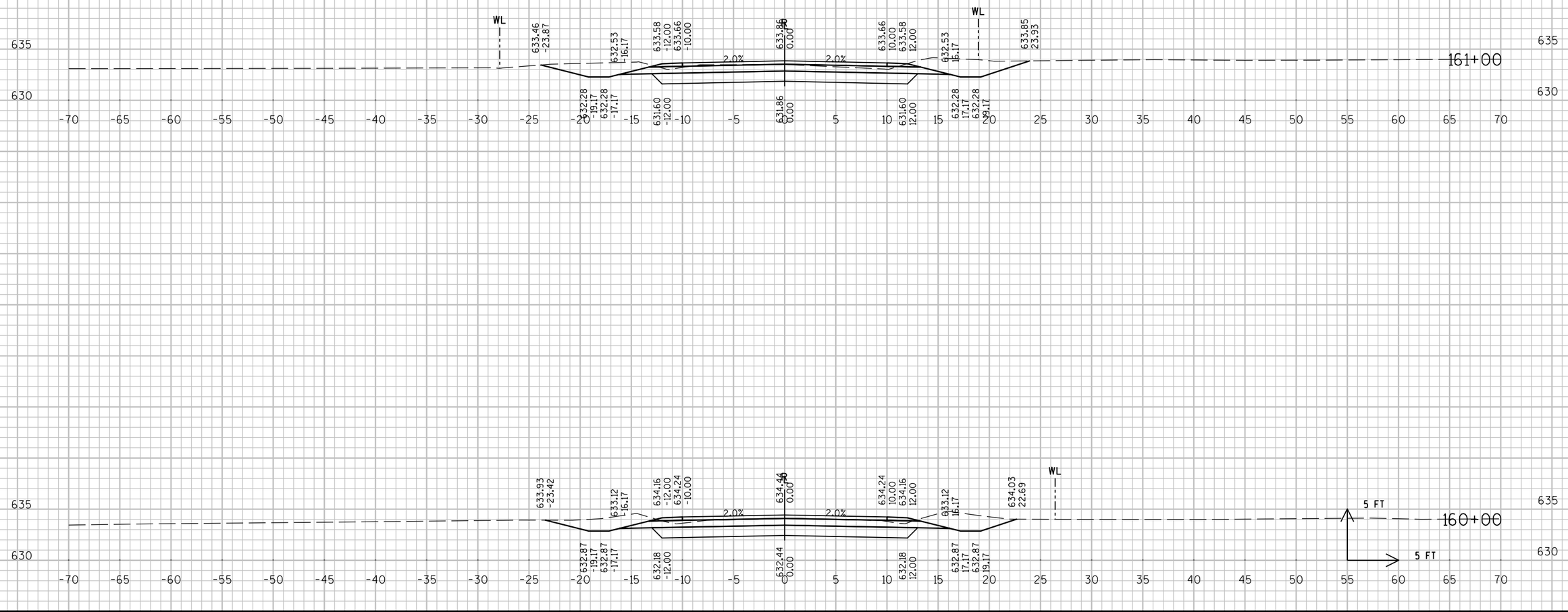


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PROJECT NO: 5085-00-70	HWY: HUNTERS POINT RD	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 287	E

FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 9/11/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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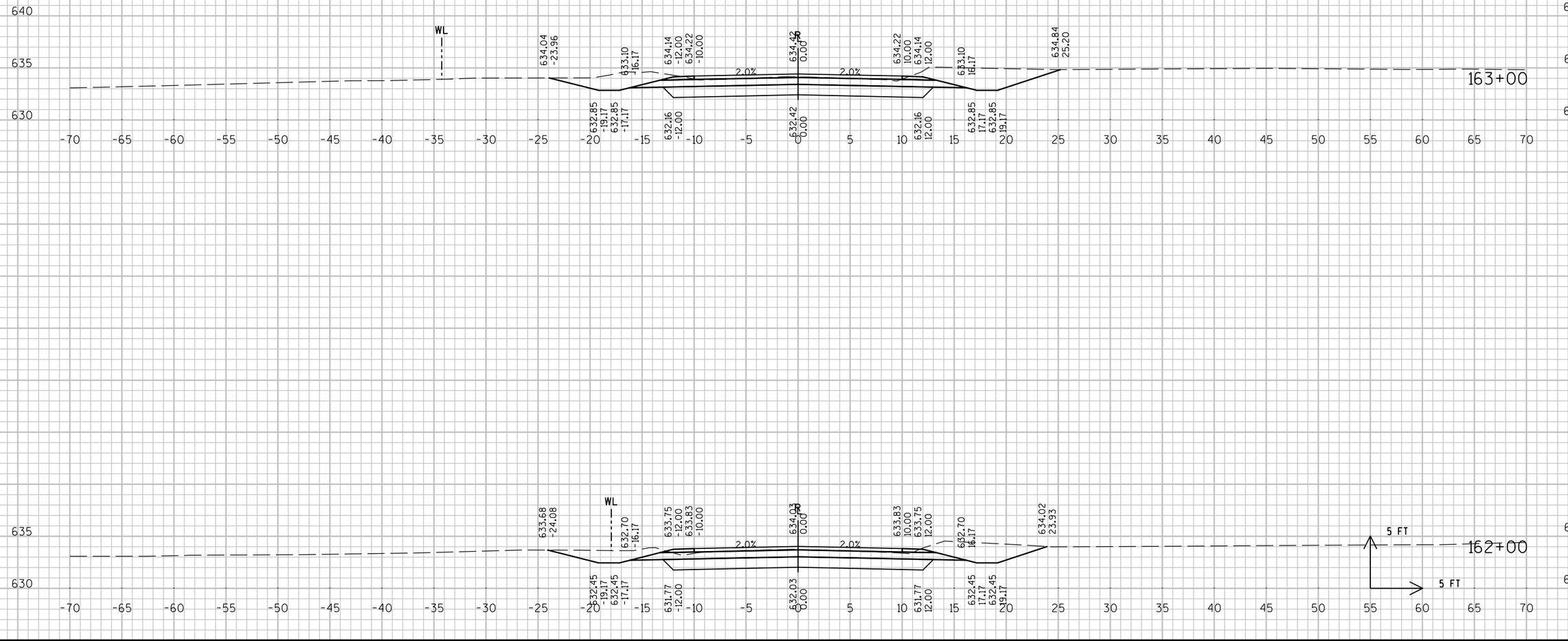
PROJECT NO: 5085-00-70	HWY: HUNTERS POINT RD	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 288	E

FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 9/11/2018

PLOT BY : $$...plotuser...$$

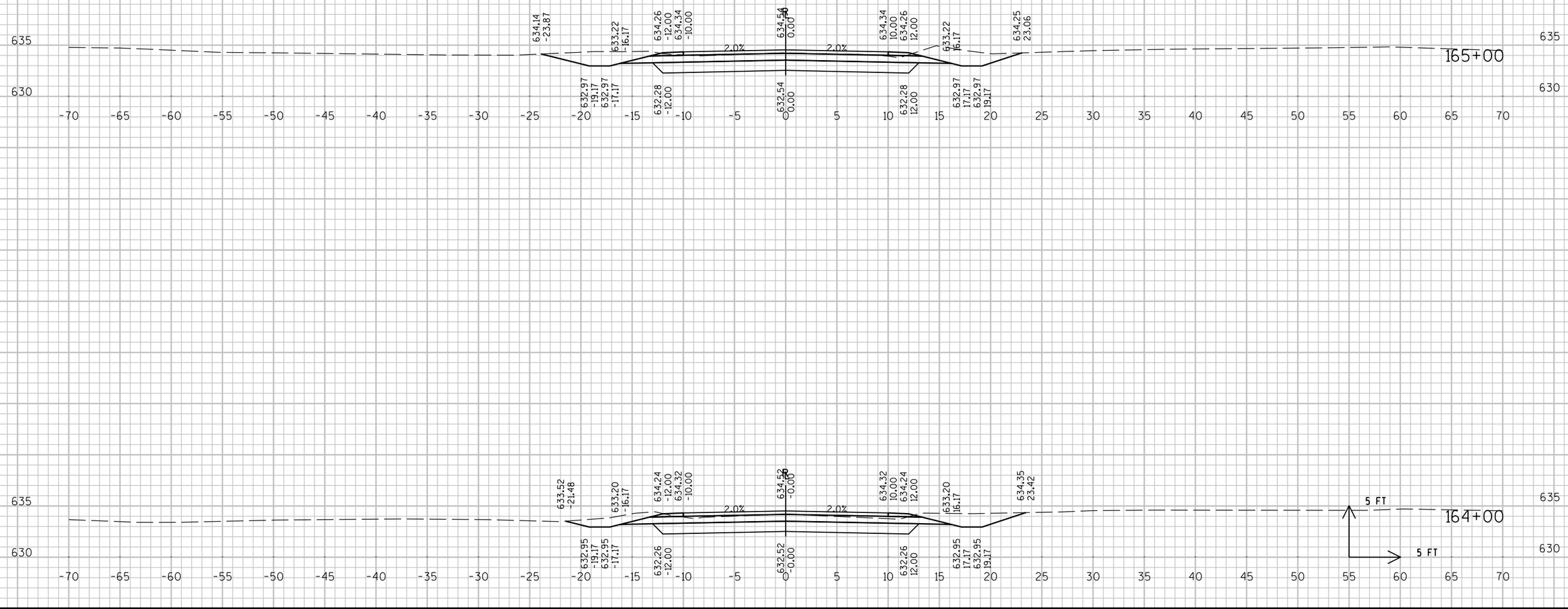
WISDOT/CADDS SHEET 21



PROJECT NO: 5085-00-70	HWY: HUNTERS POINT RD	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 289	E

FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 9/11/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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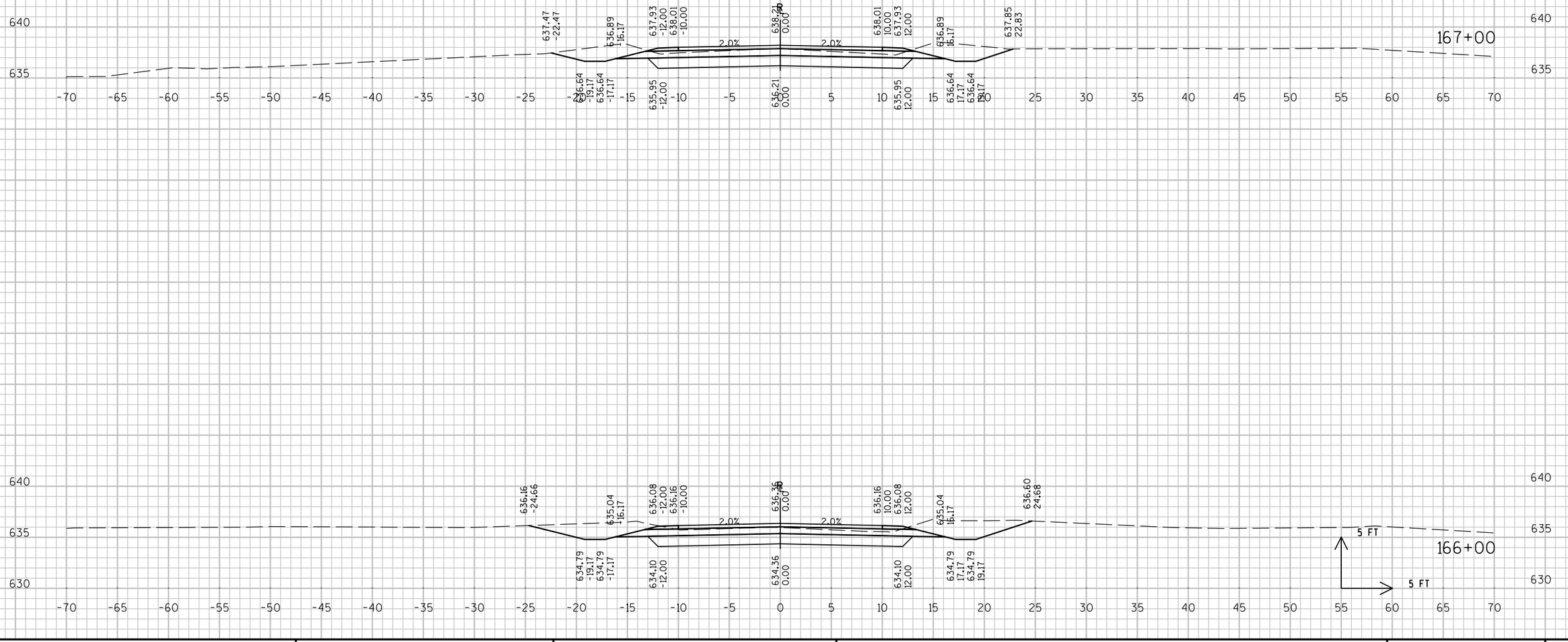
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FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 9/11/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

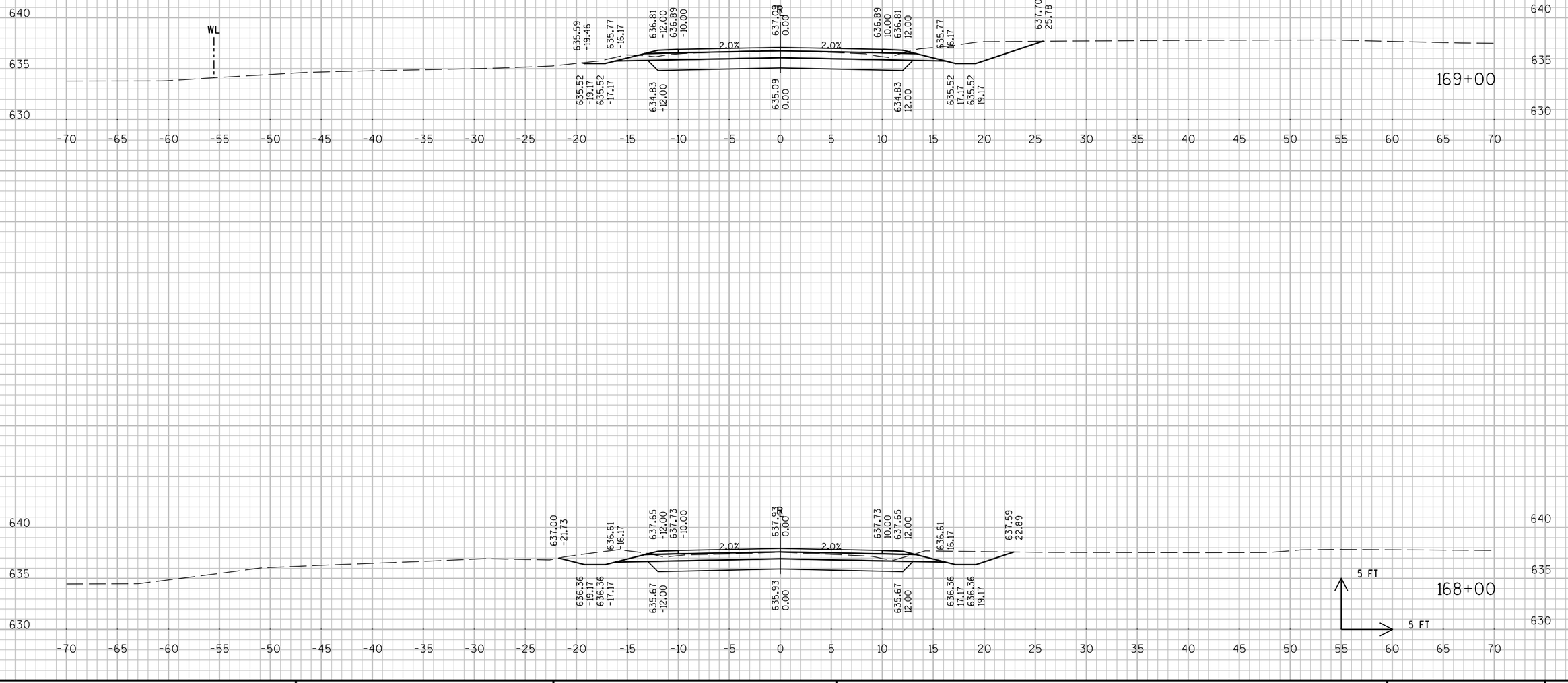


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PROJECT NO: 5085-00-70	HWY: HUNTERS POINT RD	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 291	E

FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 9/11/2018 PLOT BY : $$...plotuser...$$

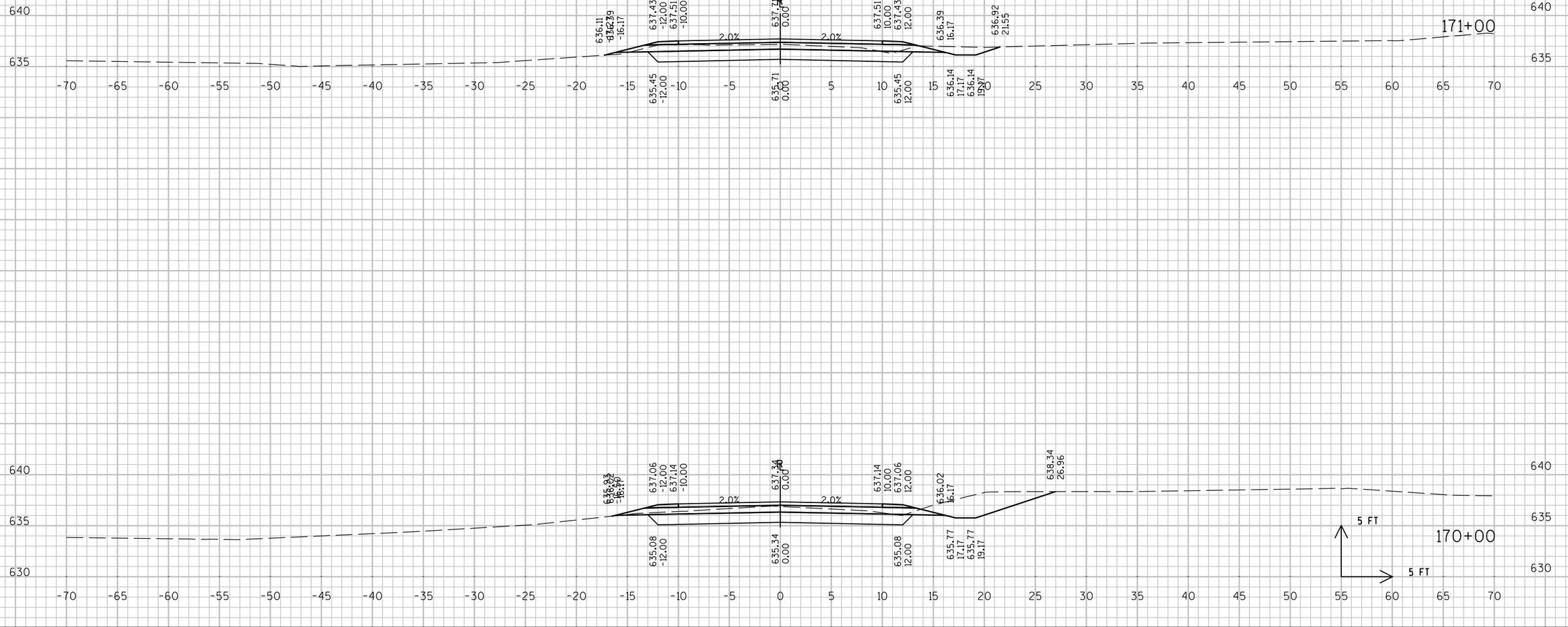
WISDOT/CADDS SHEET 21



PROJECT NO: 5085-00-70	HWY: HUNTERS POINT RD	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 292	E

FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 9/11/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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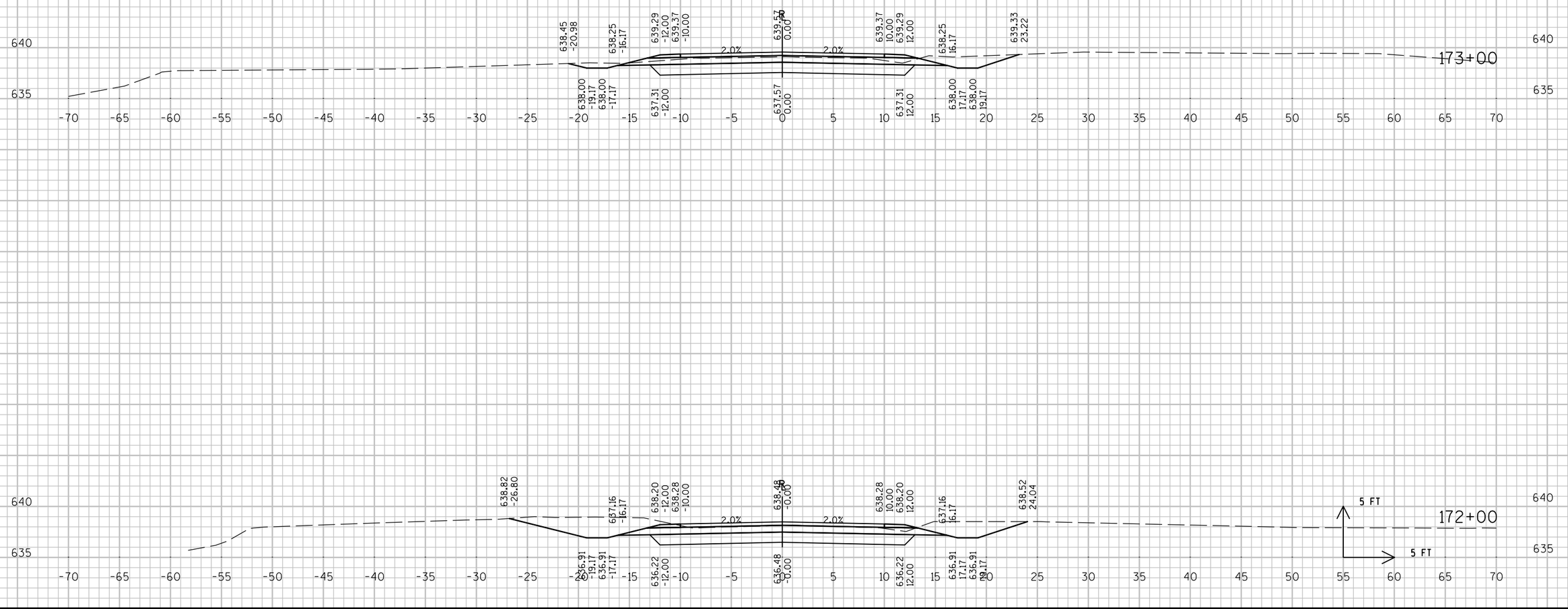
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FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 9/11/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

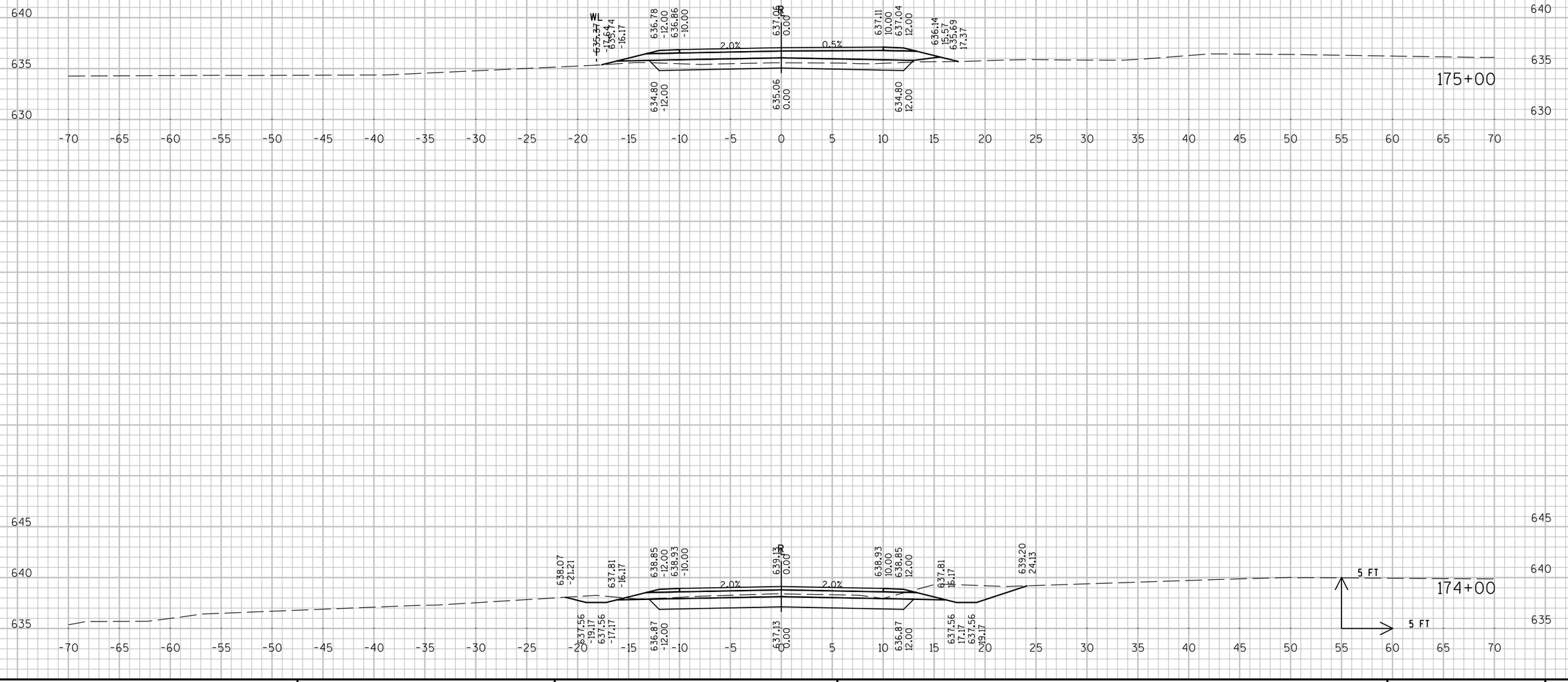


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PROJECT NO: 5085-00-70	HWY: HUNTERS POINT RD	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 294	E

FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 9/11/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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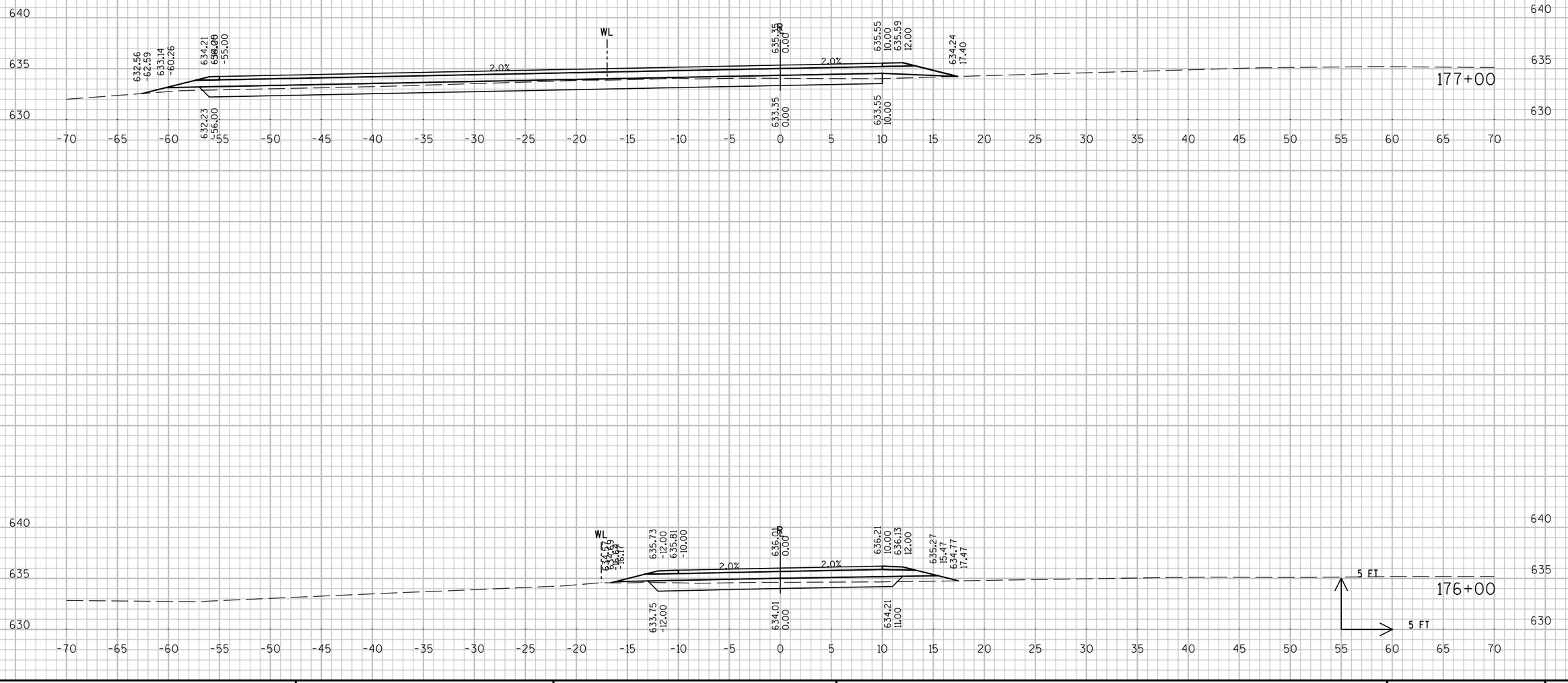
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FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 9/11/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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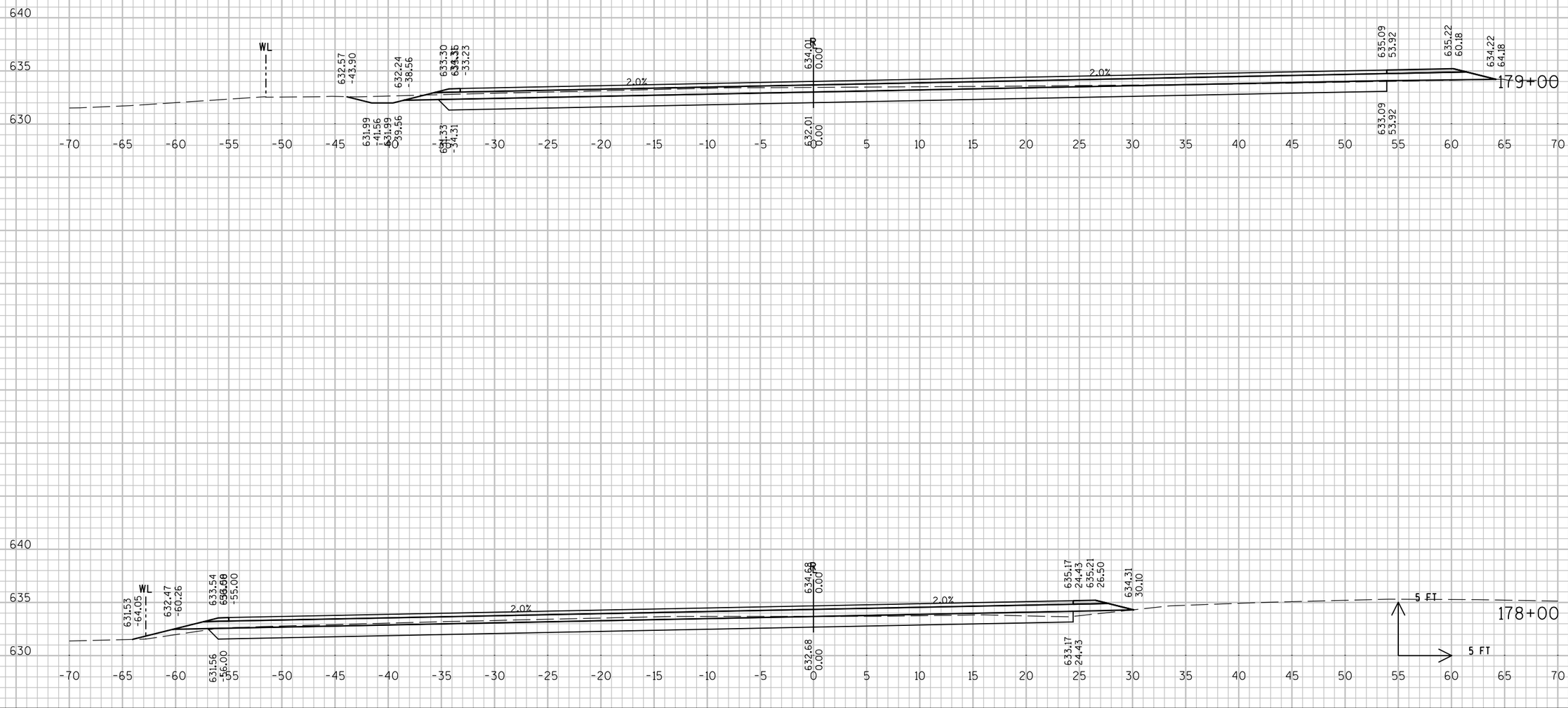
PROJECT NO: 5085-00-70	HWY: HUNTERS POINT RD	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 296	E

FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn

PLOT DATE : 9/11/2018

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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PROJECT NO: 5085-00-70	HWY: HUNTERS POINT RD	COUNTY: LA CROSSE	CROSS SECTIONS:	SHEET 297	E

FILE NAME : P:\LACRO\15005 - Goose Island\cad\XSParkRoads.dgn PLOT DATE : 9/11/2018 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

Wisconsin Department of Transportation

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