RHI

DECEMBER 2017

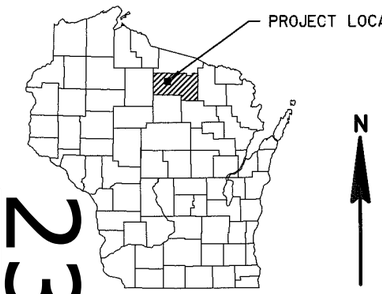
PROJECT ID: 9465-00-70

WITH: N/A

COUNTY: ONEIDA

ORDER OF SHEETS

TOTAL SHEETS = 144



23

DESIGN DESIGNATION

A.A.D.T.	(2017)	= 600
A.A.D.T.	(2037)	= 750
D.H.V.		= 101
D.D.		= 61/39
T.		= 6.7%
DESIGN SPEED		= 50 MPH
ESALS		= 58,400

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)
- HIGH VOLTAGE (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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

LINCOLN COUNTY LINE - USH 51

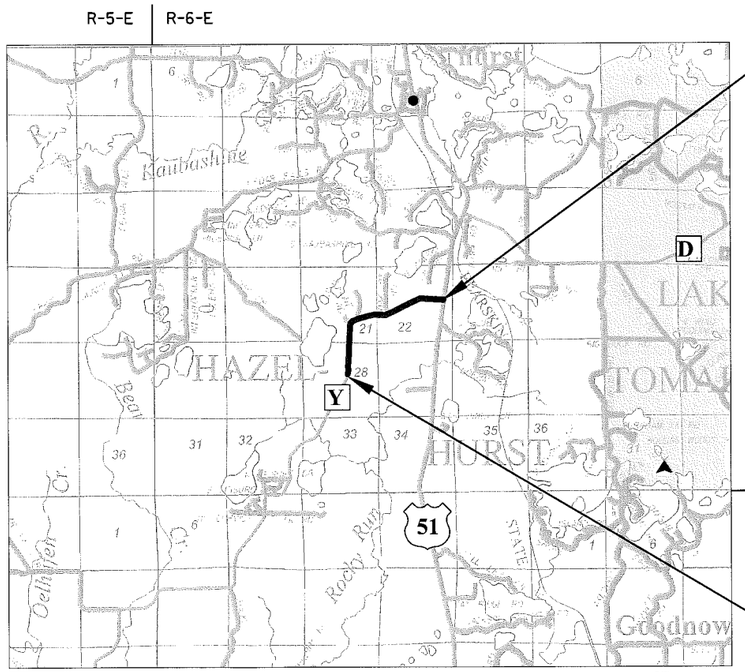
SOUTH GARTH LAKE ROAD TO USH 51

CTH Y

ONEIDA COUNTY

STATE PROJECT NUMBER
9465-00-70

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
9465-00-70	WISC 2018022	1



END PROJECT 9465-00-70
STA 223+64.03

T-38-N
T-37-N

BEGIN PROJECT 9465-00-70
STA 110+50.00
Y = 206,732.862
X = 178,932.352

LAYOUT
SCALE 0 2 MILE

TOTAL NET LENGTH OF CENTERLINE = 2.143 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, ONEIDA COUNTY, NAD83 (2007), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ELEVATIONS SHOWN ON THE PLANS ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

APPROVED FOR ONEIDA COUNTY

DATE: 7-10-17 Bruce Skovl (Signature)

Highway Commissioner (Title of Offical)

ORIGINAL PLANS PREPARED BY

CORRE Structural Environmental Municipal Transportation

1602 WARDEN ROAD
EAU CLAIRE, WI 54703
(608)826-1011
www.correinc.com

WISCONSIN
KEVIN L. MEYER
E-38309-006
ELK MOUND
WI
PROFESSIONAL ENGINEER

DATE: 7-5-17 (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor: CORRE, INC.

Designer: CORRE, INC.

Management Consultant: CEDAR CORPORATION

APPROVED FOR THE DEPARTMENT

DATE: 7-28-2017

MANAGEMENT CONSULTANT SIGNATURE

E

UTILITY CONTACTS

WISCONSIN PUBLIC SERVICE CORPORATION
CLAYTON VIRCKS
P.O. BOX 1166
WAUSAU, WI 54402-1166
715-848-7317
chvircks@wisconsinpublicservice.com

FRONTIER COMMUNICATIONS - COMMUNICATION LINE
CLAVIN KLADE
1851 N. 14TH AVENUE
WAUSAU, WI 54401
715-847-1525 OFFICE
715-573-2110 CELL
calvin.klade@ftr.com

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

DNR CONTACT

JON SIMONSEN
107 SUTLIFF
RHINELANDER, WI 54501
715-365-8916
jonathan.simonsen@wisconsin.gov

CONSULTANT CONTACT

CORRE, INC.
1802 WARDEN STREET
EAU CLAIRE, WI 54703
KEVIN MEYER, P.E.
715-299-1894
kmeyer@correinc.com

COUNTY CONTACT

BRUCE STEFONEK
730 W KEMP STREET
RHINELANDER, WI 54501
715-396-6131
bstefonek@co.oneida.wi.us

GENERAL NOTES

WHEN THE QUANTITY OF BASE AGGREGATE OR ASPHALTIC SURFACE IS MEASURED FOR PAYMENT BY THE TON, 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.

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS IS APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

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

CURVE DATA IS BASED ON THE ARC DEFINITION.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, ARE TO BE 4-INCH SALVAGED TOPSOILED/TOPSOILED, FERTILIZED, AND SEEDED AND MULCHED.

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

THE LOCATION OF ALL DRIVEWAYS WILL BE DETERMINED BY THE ENGINEER.

A VERTICAL SAWCUT SHALL BE MADE THROUGH EXISTING DRIVEWAYS AND PAVEMENTS AT REMOVAL LIMITS.

EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE AND IS NOT SHOWN ON THE CROSS SECTIONS BUT IS MEASURED AND PAID FOR AS COMMON EXCAVATION.

4-INCH HMA PAVEMENT SHALL BE CONSTRUCTED WITH A 1.75-INCH UPPER LAYER WITH 4 MT 58-34S AND A 2.25-INCH LOWER LAYER WITH 3 MT 58-28S.

SILT FENCE IS TO BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER, AND IN PLACE PRIOR TO REMOVALS.

UTILITY REFERENCE LINES ON THE CROSS SECTIONS ARE FOR HORIZONTAL REFERENCE ONLY.

EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE E.C.I.P AND APPROVED BY THE ENGINEER IN THE FIELD.

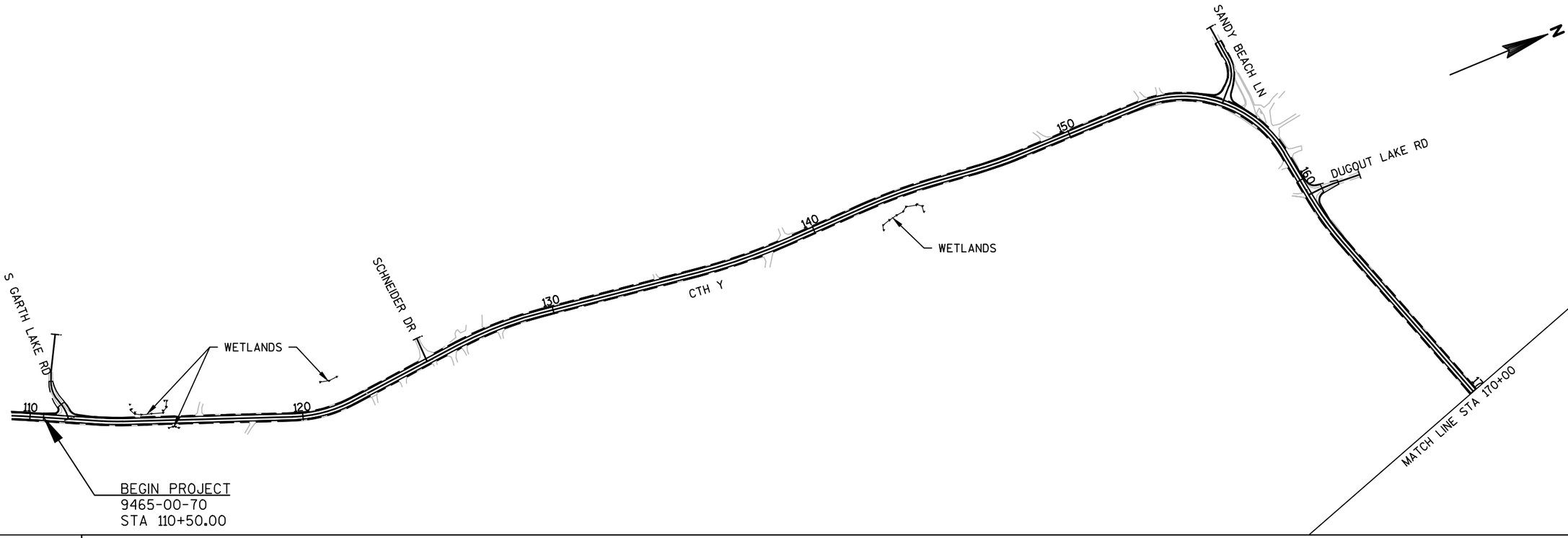
ORDER OF SECTION 2 SHEETS

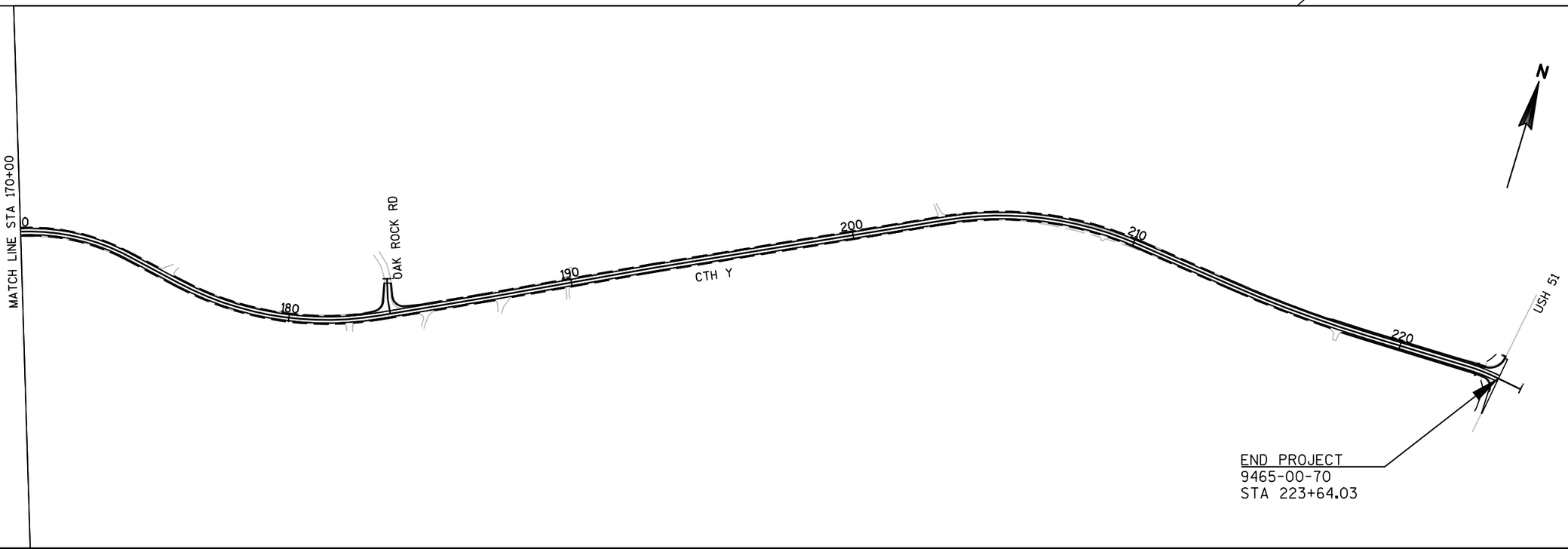
BORING LOG			
BORING NO.	STATION	ASPHALT DEPTH (IN.)	BASE DEPTH (IN)
11	114+50	3	6
12	120+00	2 1/2	5
13	135+00	2 1/2	4
14	143+50	3 1/4	4
15	157+00	3	4
16	164+50	2	5
17	172+00	3 1/2	6
18	183+50	2	6
19	191+00	2 1/2	5
20	201+00	3	5
21	212+00	2 3/4	4
22	219+75	2	4

RUNOFF COEFFICIENT TABLE

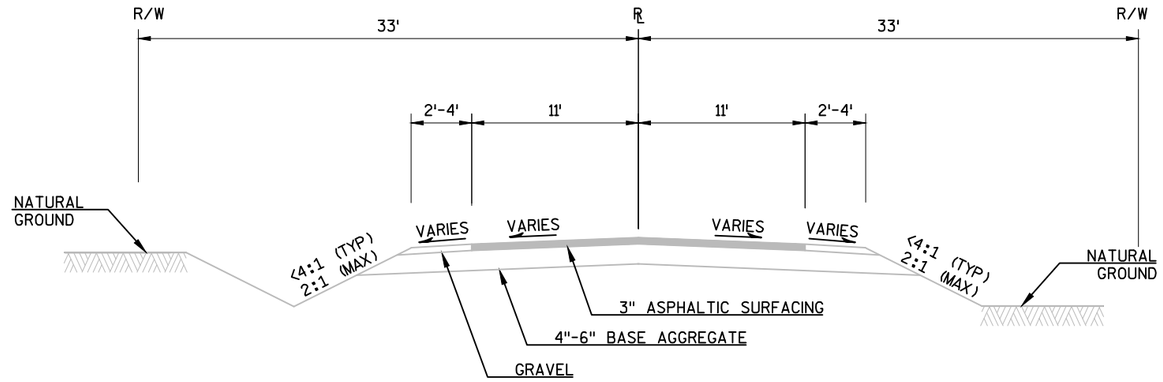
	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .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 = 18.30 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 12.41 ACRES



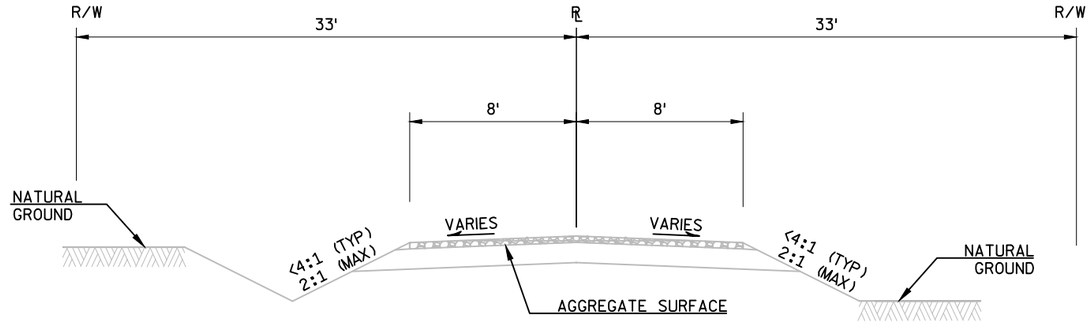


PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	PROJECT OVERVIEW: CTH Y SCALE, FEET 0 200 400	SHEET 3	E



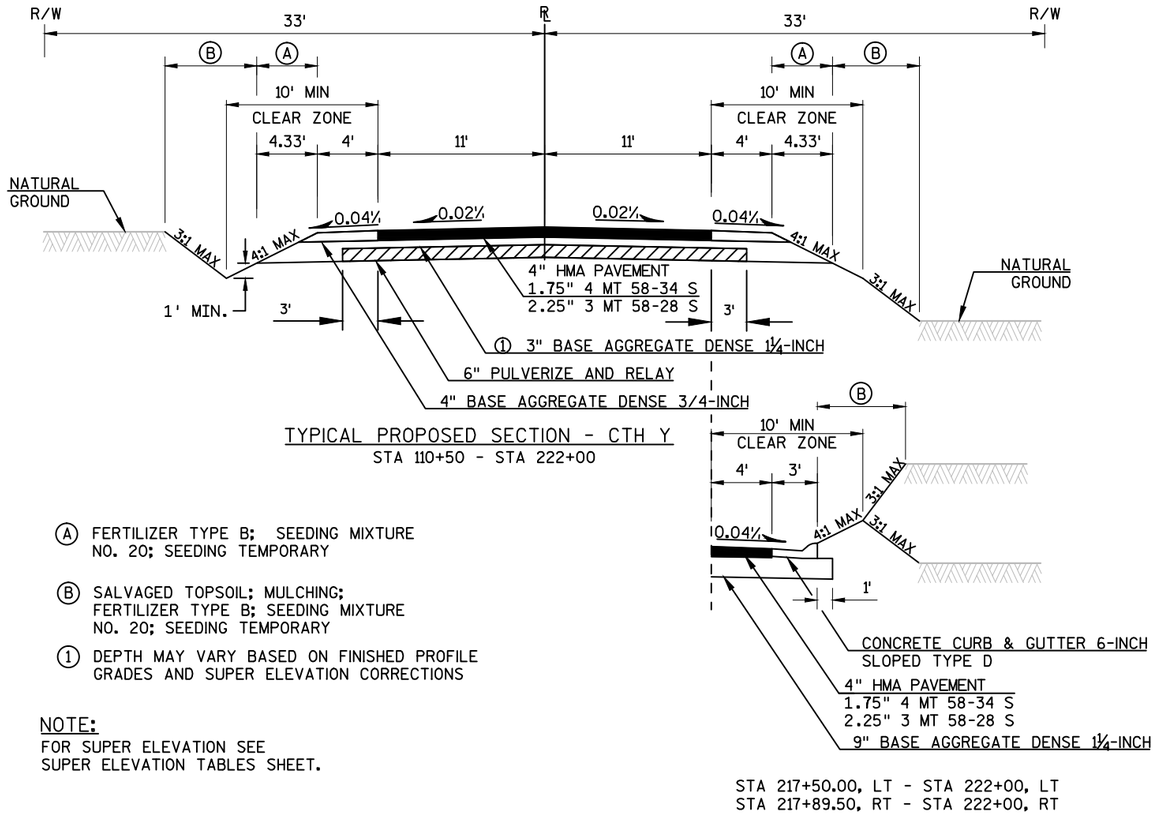
TYPICAL EXISTING SECTION - CTH Y AND SANDY BEACH LANE

STA 110+50.00 - STA 223+57.65
STA 18+30.38'SB' - STA 20+00.00'SB'



TYPICAL EXISTING SECTION - S. GARTH LAKE ROAD AND DUG OUT LAKE ROAD

STA 18+46.00'GL' - STA 20+00.00'GL'
STA 10+00.00'DL' - STA 11+17.00'DL'



TYPICAL PROPOSED SECTION - CTH Y

STA 110+50 - STA 222+00

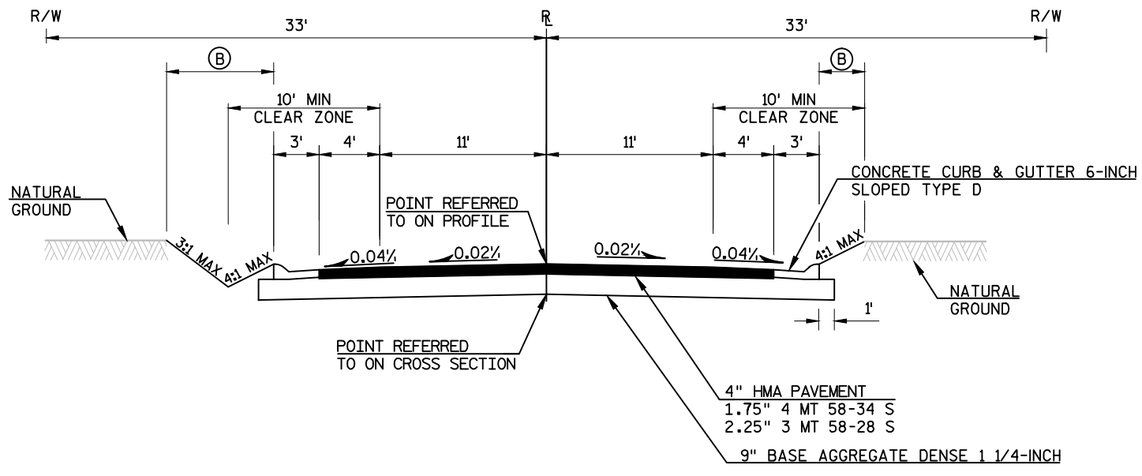
Ⓐ FERTILIZER TYPE B; SEEDING MIXTURE NO. 20; SEEDING TEMPORARY

Ⓑ SALVAGED TOPSOIL; MULCHING; FERTILIZER TYPE B; SEEDING MIXTURE NO. 20; SEEDING TEMPORARY

① DEPTH MAY VARY BASED ON FINISHED PROFILE GRADES AND SUPER ELEVATION CORRECTIONS

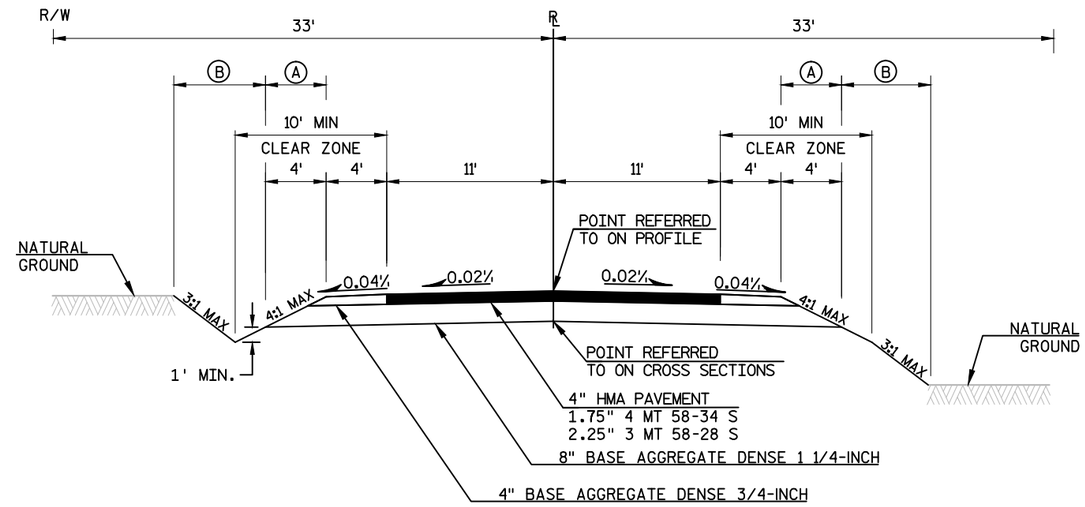
NOTE:
FOR SUPER ELEVATION SEE SUPER ELEVATION TABLES SHEET.

STA 217+50.00, LT - STA 222+00, LT
STA 217+89.50, RT - STA 222+00, RT



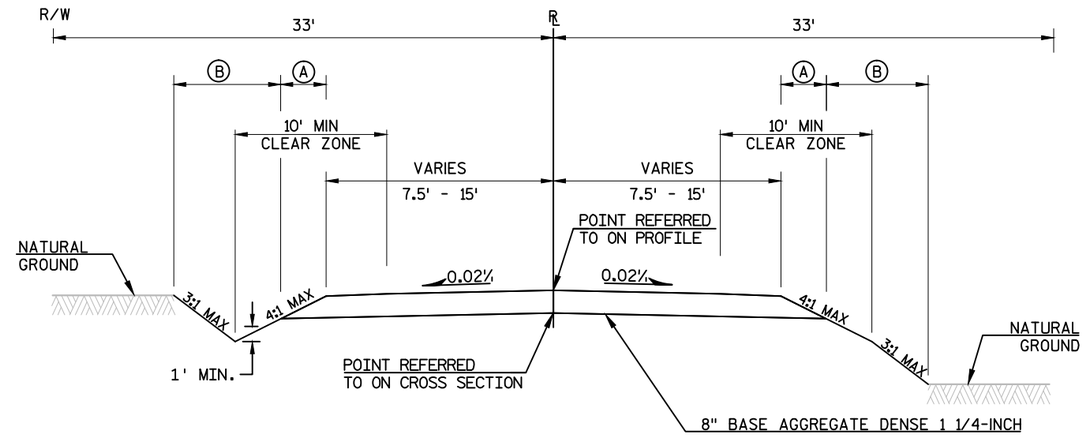
TYPICAL PROPOSED SECTION - CTH Y

STA 222+00.00 - STA 223+55.31



TYPICAL PROPOSED SECTION
SANDY BEACH LANE, S. GARTH LAKE ROAD, DUGOUT LAKE ROAD

STA 17+60.38'SB' - STA 19+88.97'SB'
STA 19+40.85'GL' - STA 19+88.21'GL'
STA 9+45.97'DL' - STA 9+88.97'DL'



TYPICAL PROPOSED SECTION - S. GARTH ROAD AND DUGOUT LAKE ROAD

STA 18+45.92'GL' - STA 19+40.85'GL'
STA 8+83.09'DL' - STA 9+45.97'DL'

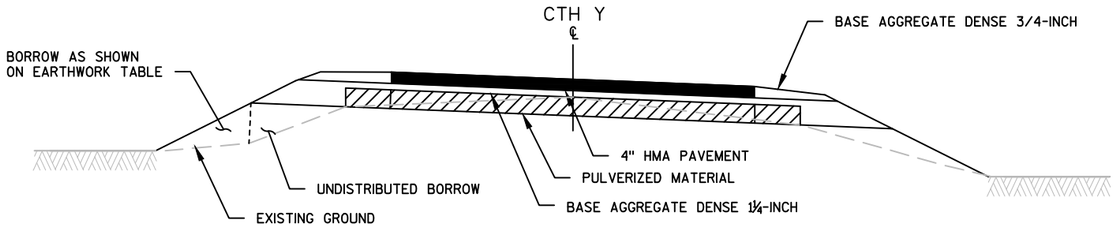
PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	TYPICAL SECTIONS: CTH Y	SHEET 5	E

2

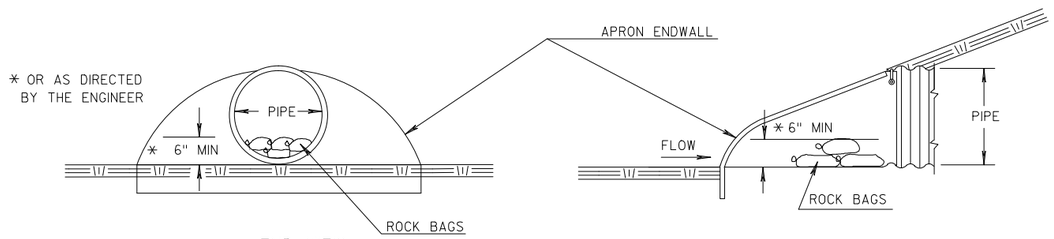
STATION	DESCRIPTION	LEFT SHOULDER	LEFT LANE	RIGHT LANE	RIGHT SHOULDER
110+50.00	MANUAL STATION	-5.70%	-5.70%	0.32%	0.32%
111+67.50	LEVEL CROWN	-2.00%	-2.00%	0.00%	0.00%
112+15.50	REVERSE CROWN	-2.00%	-2.00%	2.00%	2.00%
112+91.40	END FULL SUPER	-6.00%	-6.00%	6.00%	6.00%
113+11.50	BEGIN FULL SUPER	-6.00%	-6.00%	6.00%	6.00%
113+87.40	REVERSE CROWN	-2.00%	-2.00%	2.00%	2.00%
114+35.40	LEVEL CROWN	-2.00%	-2.00%	0.00%	0.00%
114+83.40	BEGIN NORMAL CROWN	-2.00%	-2.00%	-2.00%	-2.00%
115+31.40	BEGIN NORMAL SHOULDER	-4.00%	-2.00%	-2.00%	-4.00%
117+69.19	END NORMAL SHOULDER	-4.00%	-2.00%	-2.00%	-4.00%
118+17.19	END NORMAL CROWN	-2.00%	-2.00%	-2.00%	-2.00%
118+65.19	LEVEL CROWN	-2.00%	-2.00%	0.00%	0.00%
119+13.19	REVERSE CROWN	-2.00%	-2.00%	2.00%	2.00%
120+09.19	BEGIN FULL SUPER	-6.00%	-6.00%	6.00%	6.00%
121+43.50	END FULL SUPER	-6.00%	-6.00%	6.00%	6.00%
122+39.50	REVERSE CROWN	-2.00%	-2.00%	2.00%	2.00%
122+87.50	LEVEL CROWN	-2.00%	-2.00%	0.00%	0.00%
123+35.50	BEGIN NORMAL CROWN	-2.00%	-2.00%	-2.00%	-2.00%
123+83.50	BEGIN NORMAL SHOULDER	-4.00%	-2.00%	-2.00%	-4.00%
124+46.01	END NORMAL SHOULDER	-4.00%	-2.00%	-2.00%	-4.00%
124+94.09	END NORMAL CROWN	-2.00%	-2.00%	-2.00%	-2.00%
125+42.16	LEVEL CROWN	0.00%	0.00%	-2.00%	-2.00%
125+90.24	REVERSE CROWN	2.00%	2.00%	-2.00%	-2.00%
126+67.16	BEGIN FULL SUPER	5.20%	5.20%	-5.20%	-5.20%
129+13.84	END FULL SUPER	5.20%	5.20%	-5.20%	-5.20%
129+90.77	REVERSE CROWN	2.00%	2.00%	-2.00%	-2.00%
130+38.84	LEVEL CROWN	0.00%	0.00%	-2.00%	-2.00%
130+86.92	BEGIN NORMAL CROWN	-2.00%	-2.00%	-2.00%	-2.00%
131+35.00	BEGIN NORMAL SHOULDER	-4.00%	-2.00%	-2.00%	-4.00%
133+81.16	END NORMAL SHOULDER	-4.00%	-2.00%	-2.00%	-4.00%
134+29.34	END NORMAL CROWN	-2.00%	-2.00%	-2.00%	-2.00%
134+77.52	LEVEL CROWN	-2.00%	-2.00%	0.00%	0.00%
135+25.70	REVERSE CROWN	-2.00%	-2.00%	2.00%	2.00%
135+83.52	BEGIN FULL SUPER	-4.40%	-4.40%	4.40%	4.40%
138+62.17	END FULL SUPER	-4.40%	-4.40%	4.40%	4.40%
139+19.99	REVERSE CROWN	-2.00%	-2.00%	2.00%	2.00%
139+68.17	LEVEL CROWN	-2.00%	-2.00%	0.00%	0.00%
140+16.35	BEGIN NORMAL CROWN	-2.00%	-2.00%	-2.00%	-2.00%
140+84.23	END NORMAL CROWN	-2.00%	-2.00%	-2.00%	-2.00%
141+32.06	LEVEL CROWN	0.00%	0.00%	-2.00%	-2.00%
141+79.88	REVERSE CROWN	2.00%	2.00%	-2.00%	-2.00%
142+42.06	BEGIN FULL SUPER	4.60%	4.60%	-4.60%	-4.60%
144+34.15	END FULL SUPER	4.60%	4.60%	-4.60%	-4.60%
146+15.12	END FULL SUPER	-6.00%	-6.00%	6.00%	6.00%
146+83.84	BEGIN FULL SUPER	-6.00%	-6.00%	6.00%	6.00%
147+26.17	END FULL SUPER	-6.00%	-6.00%	6.00%	6.00%
147+76.93	BEGIN FULL SUPER	-6.00%	-6.00%	6.00%	6.00%
148+70.17	LEVEL CROWN	-2.00%	-2.00%	0.00%	0.00%
149+18.17	BEGIN NORMAL CROWN	-2.00%	-2.00%	-2.00%	-2.00%
149+66.17	BEGIN NORMAL SHOULDER	-4.00%	-2.00%	-2.00%	-4.00%
150+82.73	END NORMAL SHOULDER	-4.00%	-2.00%	-2.00%	-4.00%
151+30.73	END NORMAL CROWN	-2.00%	-2.00%	-2.00%	-2.00%
151+78.73	LEVEL CROWN	0.00%	0.00%	-2.00%	-2.00%
152+26.73	REVERSE CROWN	2.00%	2.00%	-2.00%	-2.00%
153+22.73	BEGIN FULL SUPER	6.00%	6.00%	-6.00%	-6.00%

STATION	DESCRIPTION	LEFT SHOULDER	LEFT LANE	RIGHT LANE	RIGHT SHOULDER
158+39.36	END FULL SUPER	6.00%	6.00%	-6.00%	-6.00%
161+30.87	BEGIN FULL SUPER	-6.00%	-6.00%	6.00%	6.00%
162+16.13	END FULL SUPER	-6.00%	-6.00%	6.00%	6.00%
163+12.13	REVERSE CROWN	-2.00%	-2.00%	2.00%	2.00%
163+60.13	LEVEL CROWN	-2.00%	-2.00%	0.00%	0.00%
164+08.13	BEGIN NORMAL CROWN	-2.00%	-2.00%	-2.00%	-2.00%
164+56.13	BEGIN NORMAL SHOULDER	-4.00%	-2.00%	-2.00%	-4.00%
168+19.72	END NORMAL SHOULDER	-4.00%	-2.00%	-2.00%	-4.00%
168+67.72	END NORMAL CROWN	-2.00%	-2.00%	-2.00%	-2.00%
169+15.72	LEVEL CROWN	0.00%	0.00%	-2.00%	-2.00%
169+63.72	REVERSE CROWN	2.00%	2.00%	-2.00%	-2.00%
170+59.72	BEGIN FULL SUPER	6.00%	6.00%	-6.00%	-6.00%
173+45.24	END FULL SUPER	6.00%	6.00%	-6.00%	-6.00%
176+39.36	BEGIN FULL SUPER	-5.80%	-5.80%	5.80%	5.80%
182+68.62	END FULL SUPER	-5.80%	-5.80%	5.80%	5.80%
183+59.69	REVERSE CROWN	-2.00%	-2.00%	2.00%	2.00%
184+07.62	LEVEL CROWN	-2.00%	-2.00%	0.00%	0.00%
184+55.55	BEGIN NORMAL CROWN	-2.00%	-2.00%	-2.00%	-2.00%
185+03.48	BEGIN NORMAL SHOULDER	-4.00%	-2.00%	-2.00%	-4.00%
201+41.57	END NORMAL SHOULDER	-4.00%	-2.00%	-2.00%	-4.00%
201+89.42	END NORMAL CROWN	-2.00%	-2.00%	-2.00%	-2.00%
202+37.28	LEVEL CROWN	0.00%	0.00%	-2.00%	-2.00%
202+85.14	REVERSE CROWN	2.00%	2.00%	-2.00%	-2.00%
203+71.28	BEGIN FULL SUPER	5.60%	5.60%	-5.60%	-5.60%
209+73.79	END FULL SUPER	5.60%	5.60%	-5.60%	-5.60%
210+59.93	REVERSE CROWN	2.00%	2.00%	-2.00%	-2.00%
211+07.79	LEVEL CROWN	0.00%	0.00%	-2.00%	-2.00%
211+55.65	BEGIN NORMAL CROWN	-2.00%	-2.00%	-2.00%	-2.00%
212+03.50	BEGIN NORMAL SHOULDER	-4.00%	-2.00%	-2.00%	-4.00%
212+44.62	END NORMAL SHOULDER	-4.00%	-2.00%	-2.00%	-4.00%
212+92.31	END NORMAL CROWN	-2.00%	-2.00%	-2.00%	-2.00%
213+40.01	LEVEL CROWN	-2.00%	-2.00%	0.00%	0.00%
213+87.70	REVERSE CROWN	-2.00%	-2.00%	2.00%	2.00%
214+02.01	BEGIN FULL SUPER	-2.60%	-2.60%	2.60%	2.60%
218+55.54	END FULL SUPER	-2.60%	-2.60%	2.60%	2.60%
218+69.85	REVERSE CROWN	-2.00%	-2.00%	2.00%	2.00%
219+17.54	LEVEL CROWN	-2.00%	-2.00%	0.00%	0.00%
219+65.23	BEGIN NORMAL CROWN	-2.00%	-2.00%	-2.00%	-2.00%
220+12.92	BEGIN NORMAL SHOULDER	-4.00%	-2.00%	-2.00%	-4.00%
220+59.21	END NORMAL SHOULDER	-4.00%	-2.00%	-2.00%	-4.00%
221+07.21	END NORMAL CROWN	-2.00%	-2.00%	-2.00%	-2.00%
221+55.21	LEVEL CROWN	0.00%	0.00%	-2.00%	-2.00%
222+03.21	REVERSE CROWN	2.00%	2.00%	-2.00%	-2.00%
222+99.21	BEGIN FULL SUPER	6.00%	6.00%	-6.00%	-6.00%
223+01.35	END FULL SUPER	6.00%	6.00%	-6.00%	-6.00%
223+97.35	REVERSE CROWN	2.00%	2.00%	-2.00%	-2.00%
224+45.35	LEVEL CROWN	0.00%	0.00%	-2.00%	-2.00%
224+93.35	BEGIN NORMAL CROWN	-2.00%	-2.00%	-2.00%	-2.00%
225+41.35	BEGIN NORMAL SHOULDER	-4.00%	-2.00%	-2.00%	-4.00%
224+50.00	END ALIGNMENT	-4.00%	-2.00%	-2.00%	-4.00%

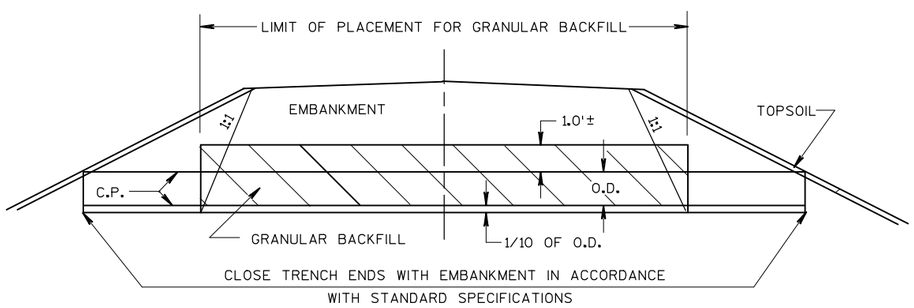
2



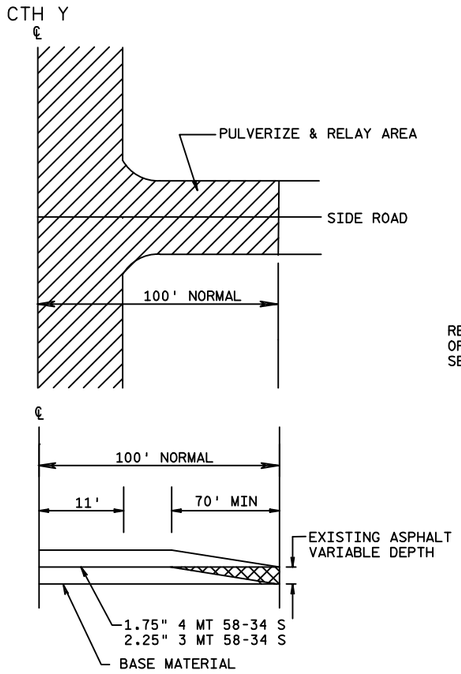
SUPER ELEVATION CORRECTION

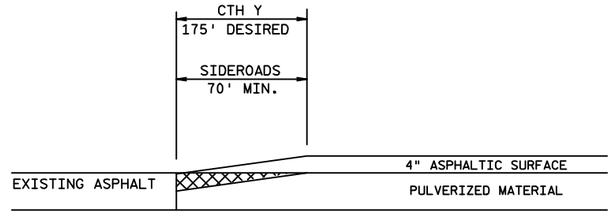


CULVERT PIPE CHECKS



CULVERT BACKFILL DETAIL





BUTT JOINT

PAID FOR AS REMOVING ASPHALTIC SURFACE BUTT JOINTS

REQUIRED AT BEGIN AND END OF PAVING LOCATIONS. SEE PLAN AND PROFILE.

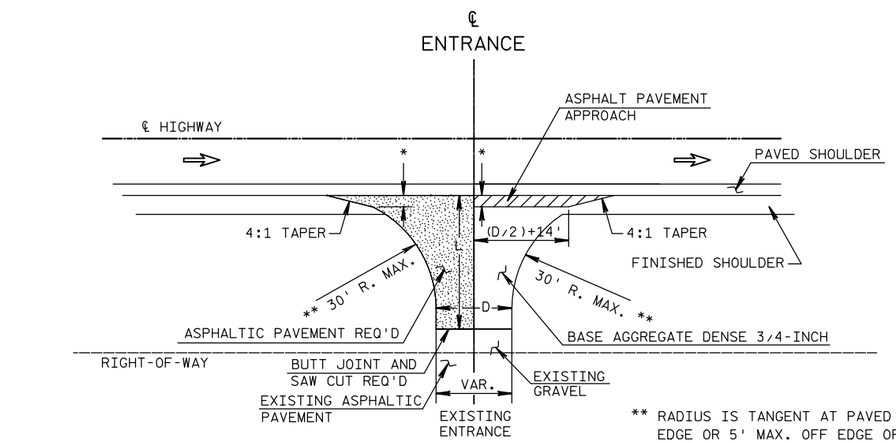
NOTE: ANY SAWCUT USED IN THIS OPERATION CONSIDERED INCIDENTAL TO THIS ITEM

REMOVE MATERIAL UNDER ITEM 'REMOVING ASPHALT SURFACE , BUTT JOINTS' MATERIAL SHALL NOT BE REMOVED UNDER THIS ITEM UNTIL 24 HOURS BEFORE SIDEROAD PAVING.

SIDEROAD PAVEMENT DEPTH SHALL MATCH AT MAINLINE PAVEMENT EDGE AND BE TAPERED TO 3" MINIMUM AT JOINT

NOTE: ANY SAWCUT USED WILL BE CONSIDERED INCIDENTAL TO THE ITEM "REMOVING ASPHALTIC SURFACE, BUTT JOINTS."

PAVEMENT TRANSITION
NOT TO SCALE



L=VARIABLE, EXACT LENGTH TO BE DETERMINED IN THE FIELD BY THE ENGINEER. BLEND BACK ON THE ENTRANCE FAR ENOUGH TO GET A SMOOTH PROFILE.

D=DRIVEWAY WIDTH
D=20'TYP.(PE's & FE's) (16'MIN.-24'MAX.)
D=28'TYP.(CE's & FARM ENT.) (24'MIN.-35'MAX.)

** RADIUS IS TANGENT AT PAVED SHOULDER EDGE OR 5' MAX. OFF EDGE OF MAIN LINE PAVEMENT WHICH EVER IS LESS.

* 3' MAX. OR TO FINISHED SHOULDER WHICH EVER IS LESS.

PLAN VIEW

RURAL DRIVEWAY INTERSECTION DETAIL
(PE's, FE's & CE'S)

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CONSTRUCTION DETAILS: CTH Y	SHEET 7	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\021001 CD.DWG
LAYOUT NAME - 021001 CD
PLOT DATE : 7/5/2017 1:59 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- (AG01) BASE AGGREGATE DENSE 3/4-INCH
- (AG02) BASE AGGREGATE DENSE 1 1/4-INCH
- (AP04) 4" HMA PAVEMENT
- (DR01) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH
- (CG01) CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D

PI STA = 19+67.31'GL'
Y = 206817.793
X = 178939.148
DELTA = 21°59'46"
D = 37°12'18"
T = 29.93'
L = 59.12'
R = 154.00'
PC STA = 19+37.39'GL'
PT STA = 19+96.51'GL'

N

2

18'GL'

PI: 18+11.99'GL'

BEGIN CONSTRUCTION
STA 18+45.92'GL'
MATCH EXISTING

14'

PC: 18+49.87'GL'

℄ S. GARTH LAKE ROAD

S. GARTH LAKE RD

19'GL'

AG02

PT: 19+15.49'GL'

END AP04
STA 19+40.85'GL'
MATCH EXISTING

R140'
+10.44
172.55', LT

R156'
+17.29
140.12', LT

+27.64'GL'
14.89', LT

+20.57
60.07', LT

+41.85
33.78', LT

+72.05
51.00', LT

+72.46
16.00', LT

PC: 19+37.39'GL'

3'

13'

2%

15'

AP04

R35'

EL.1588.85

PT: 19+96.51'GL'

+45.55
11.00', LT

PC: 112+63.51

PT: 113+39.40

+00.35
41.04', LT

+89.20
31.00', LT

EL.1588.12

R15'

1%

EL.1589.31

+50.00
12.03', LT

+89.96
16.02', LT

5.2%

EL.1590.65

70°0"

EL.1588.89

EL.1588.39

2%

PC: 109+40.98

PT: 109+75.05

AG01

4'

11'

AP04

109+00

110+00

111+00

112+00

113+00

114+00

℄ CTH Y

R/W

R/W

GUY

OH

STA 111+40.63=
STA 20+00.00'GL'
TYPE C MODIFIED INTERSECTION REQ'D

SLOPE INTERCEPTS

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	INTERSECTION DETAILS: CTH Y SCALE, FEET 0 20 40	SHEET 8	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\021102 ID.DWG
LAYOUT NAME - 021101 ID

PLOT DATE : 4/27/2017 2:59 PM PLOT BY : BOBBY JONES PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 42

LEGEND

AG01	BASE AGGREGATE DENSE 3/4-INCH
AG02	BASE AGGREGATE DENSE 1 1/4-INCH
AP04	4" HMA PAVEMENT
DR01	AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH
CG01	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D

BEGIN CONSTRUCTION
STA 17+60.23'SB'
MATCH EXISTING
SAWING ASPHALT REQD

℄ SANDY BEACH LANE

SANDY BEACH LN

℄ CTH Y

OBLITERATE OLD ROAD

STA 155+88.05=
STA 20+00.00'SB'
TYPE C MODIFIED INTERSECTION REQ'D

SLOPE INTERCEPTS

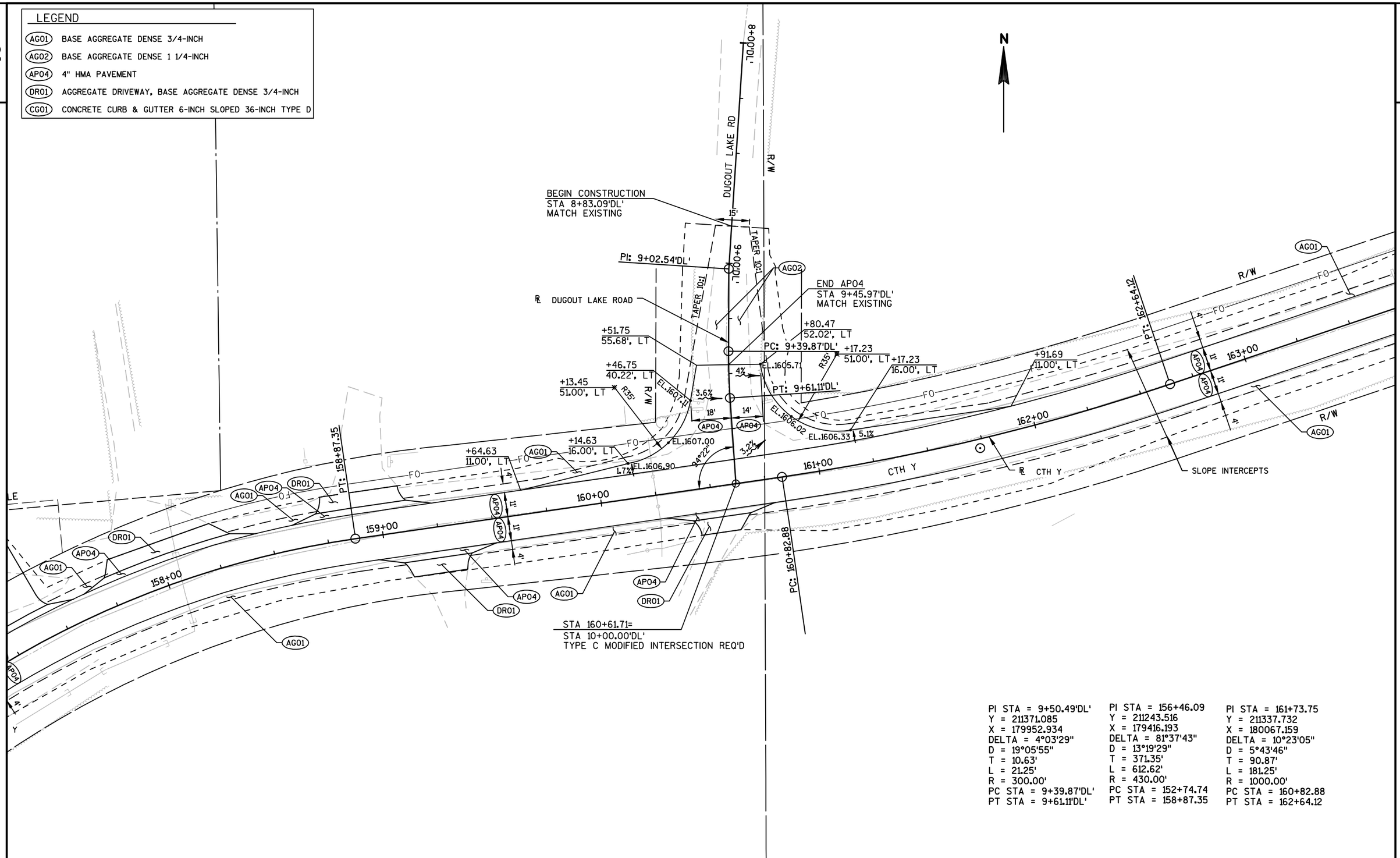
PI STA = 18+83.51'SB'
Y = 211242.829
X = 179435.372
DELTA = 49°24'13"
D = 47°44'47"
T = 55.20'
L = 103.47'
R = 120.00'
PC STA = 18+28.32'SB'
PT STA = 19+31.79'SB'

PI STA = 156+46.09
Y = 211243.516
X = 179416.193
DELTA = 81°37'43"
D = 13°19'29"
T = 371.35'
L = 612.62'
R = 430.00'
PC STA = 152+74.74
PT STA = 158+87.35

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	INTERSECTION DETAILS: CTH Y SCALE, FEET 0 20 40	SHEET 9 E

LEGEND

AG01	BASE AGGREGATE DENSE 3/4-INCH
AG02	BASE AGGREGATE DENSE 1 1/4-INCH
AP04	4" HMA PAVEMENT
DR01	AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH
CG01	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D



PI STA = 9+50.49'DL'
Y = 211371.085
X = 179952.934
DELTA = 4°03'29"
D = 19°05'55"
T = 10.63'
L = 21.25'
R = 300.00'
PC STA = 9+39.87'DL'
PT STA = 9+61.11'DL'

PI STA = 156+46.09
Y = 211243.516
X = 179416.193
DELTA = 81°37'43"
D = 13°19'29"
T = 371.35'
L = 612.62'
R = 430.00'
PC STA = 152+74.74
PT STA = 158+87.35

PI STA = 161+73.75
Y = 211337.732
X = 180067.159
DELTA = 10°23'05"
D = 5°43'46"
T = 90.87'
L = 181.25'
R = 1000.00'
PC STA = 160+82.88
PT STA = 162+64.12

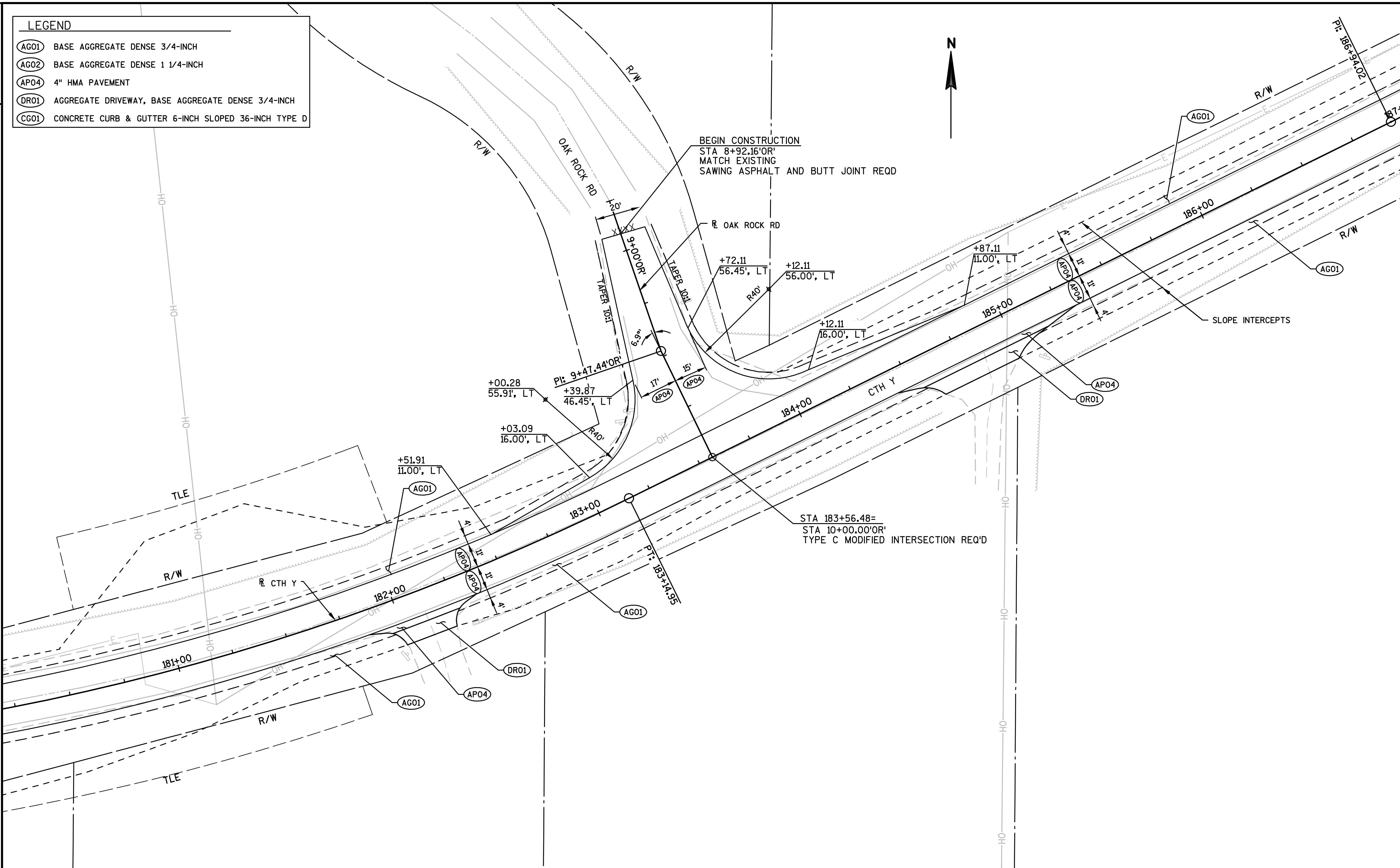
PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	INTERSECTION DETAILS: CTH Y SCALE, FEET 0 20 40	SHEET 10	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\021102 ID.DWG
LAYOUT NAME - 021105 ID
PLOT DATE : 7/5/2017 1:29 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 42

2

LEGEND

AG01	BASE AGGREGATE DENSE 3/4-INCH
AG02	BASE AGGREGATE DENSE 1 1/4-INCH
AP04	4" HMA PAVEMENT
DR01	AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH
CG01	CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D



2

PROJECT NO:9465-00-70	HWY:CTH Y	COUNTY:ONEIDA	INTERSECTION DETAILS: CTH Y	SCALE, FEET 0 20 40	SHEET	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\021102 ID.DWG
LAYOUT NAME - 021106 ID
PLOT DATE : 4/27/2017 2:59 PM PLOT BY : BOBBY JONES PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- AG01 BASE AGGREGATE DENSE 3/4-INCH
- AG02 BASE AGGREGATE DENSE 1 1/4-INCH
- AP04 4" HMA PAVEMENT
- DR01 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH
- CG01 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D

N

R/W

OH

+00.59
75.00', LT

+22.98
73.76', LT

+54.95
73.98', LT

+63.57
74.03', LT

+16.07
56.73', LT

+04.47
38.17', LT

R60'

1601.67

1606.59

CURB OPENING
FOR DRAINAGE

1601.73

AP04

TLE

CG01

R/W

PC: 222+51.21

+00.76
15.00', LT
EL.1607.34

1601.79

EL.1606.94

END PROJECT
STA 223+64.03

PT: 223+49.35

EP: 224+50.00

FO

1607.77
1607.70

1607.67
1607.45

1607.57
1607.37

1607.59
1607.26

1607.09

221+00

222+00

223+00

224+00

4"

11"

AP04

CTH Y

1607.49

1607.23

1606.98

1606.71

1606.43

1606.72

1607.19

1607.54

5.2%

1607.27
1607.19

1606.86
1606.78

1606.45
1606.37

1606.09
1605.96

1605.78

℄ CTH Y

3"

68°51'23"

R/W

TLE

SLOPE INTERCEPTS

AP04

CG01

+11.31
15.00', RT
EL.1606.09

1602.01

1606.90

STA 223+64.03
TYPE B2 INTERSECTION REQ'D

CURB OPENING
FOR DRAINAGE

+09.49
31.09', RT

R40'

USH 51

1608.70

+11.31
55.00', RT

1603.25

1.3%

+29.58
57.01', RT

+54.55
55.92', RT

1604.28

+32.75
87.14', RT

R/W

1607.00

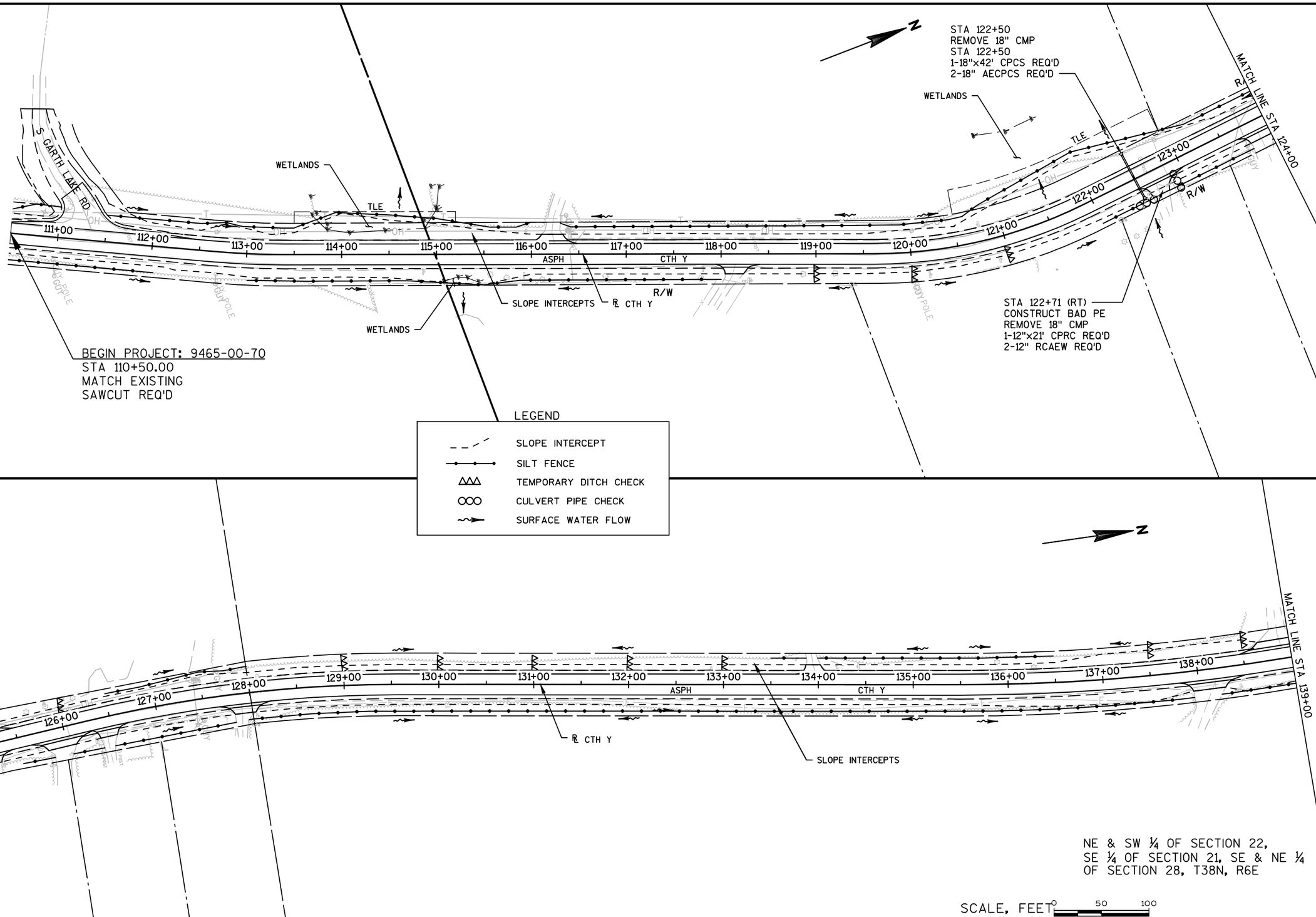
+36.10
137.35', RT

+62.88
135.17', RT

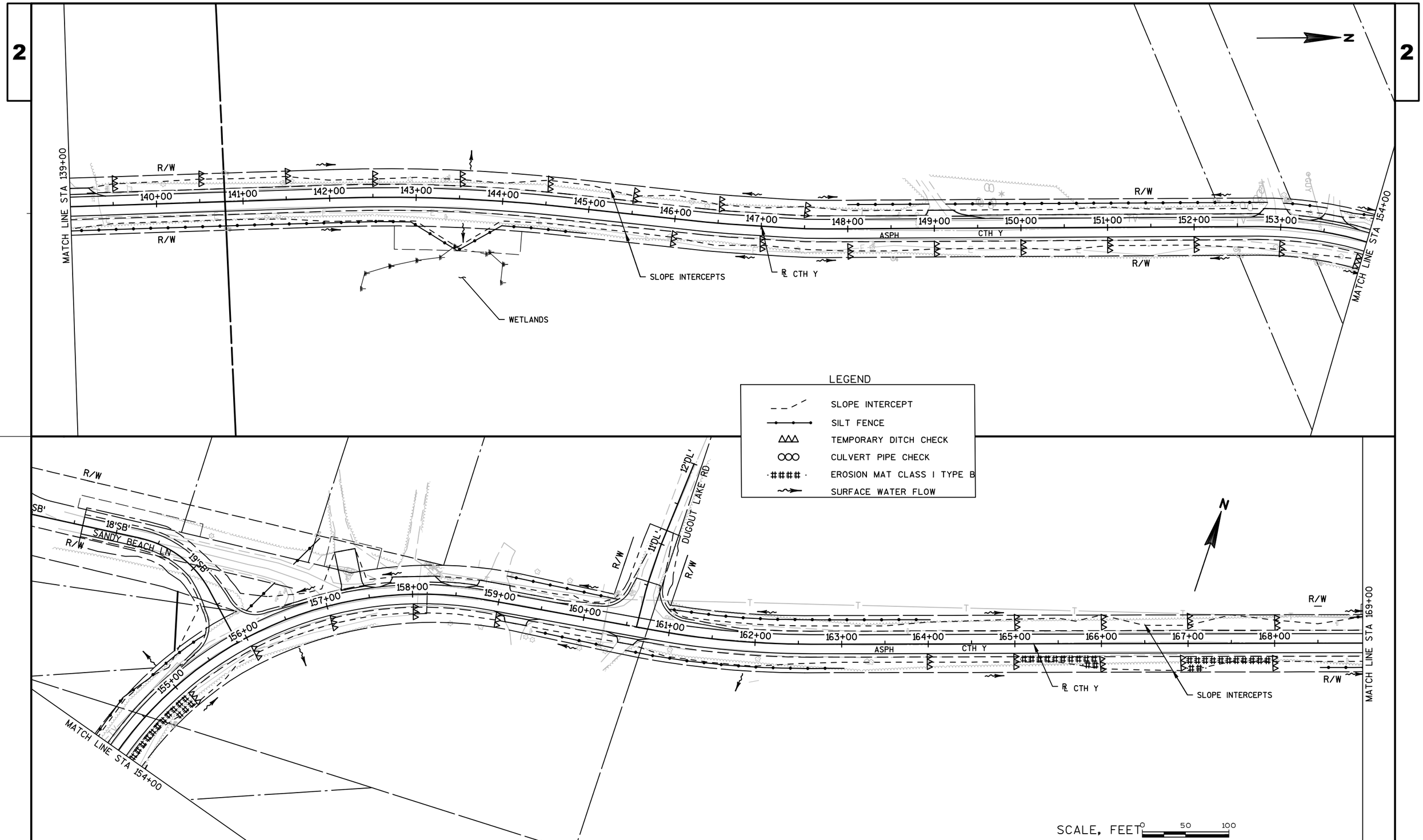
PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	INTERSECTION DETAILS: CTH Y SCALE, FEET 0 20 40	SHEET 12	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\021102 ID.DWG
LAYOUT NAME - 021107 ID

PLOT DATE : 7/6/2017 12:24 PM PLOT BY : BOBBY JONES PLOT NAME : PLOT SCALE : **********



PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	EROSION CONTROL: CTH Y	SHEET 13	E



PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	EROSION CONTROL: CTH Y	SHEET 14	E

2

MATCH LINE STA 159+00

TLE

R/W

170+00 171+00 172+00 173+00 174+00 175+00 176+00 177+00 178+00 179+00 180+00 181+00 182+00 183+00

ASPH

SLOPE INTERCEPTS

CTH Y

℄ CTH Y

OAK ROCK RD

MATCH LINE STA 184+00

N

LEGEND

- SLOPE INTERCEPT
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

MATCH LINE STA 184+00

185+00 186+00 187+00 188+00 189+00 190+00 191+00 192+00 193+00 194+00 195+00 196+00 197+00 198+00

MATCH LINE STA 199+00

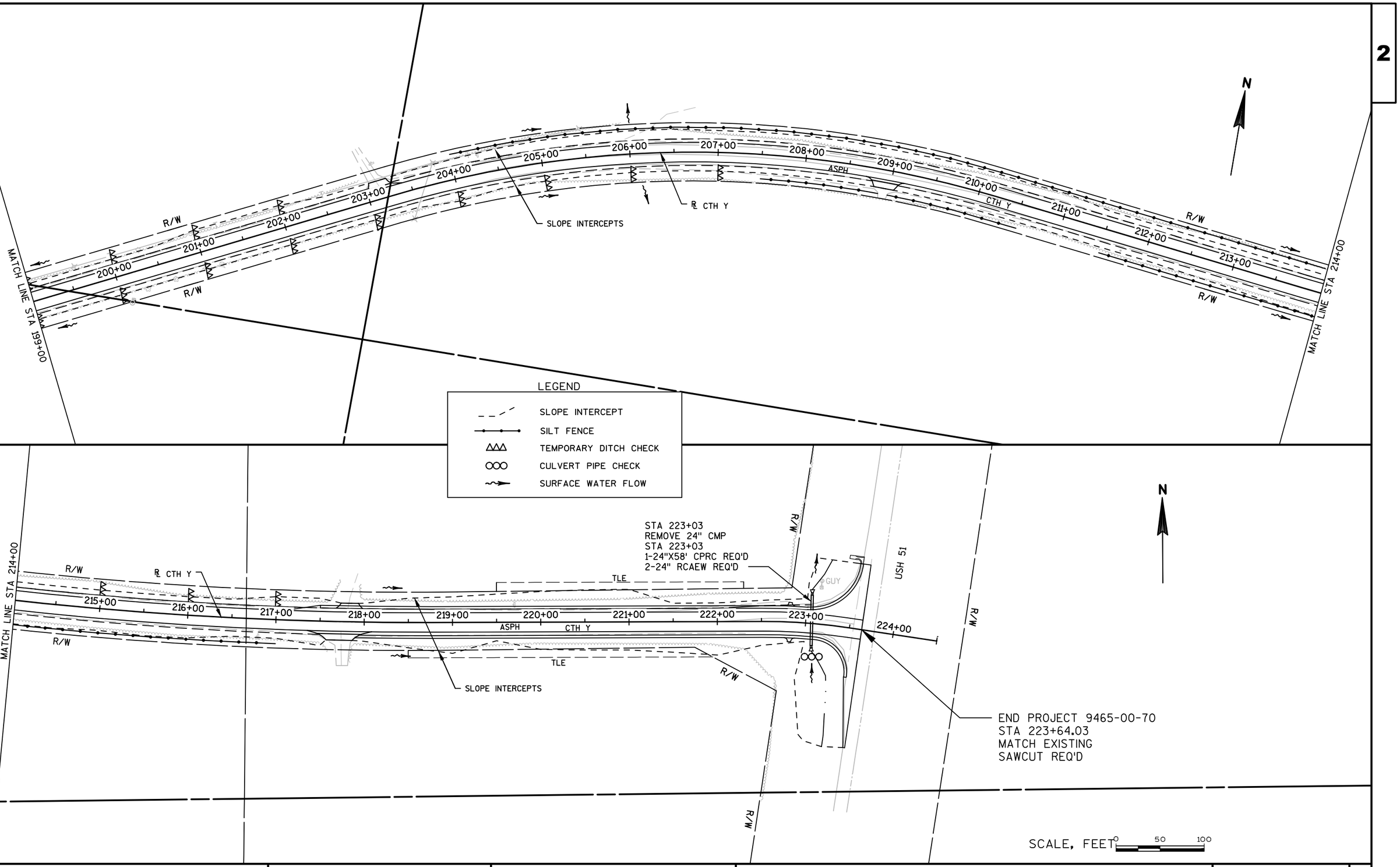
SCALE, FEET 0 50 100

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	EROSION CONTROL: CTH Y	SHEET 15	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\022002 EC.DWG PLOT DATE : 4/27/2017 3:01 PM PLOT BY : BOBBY JONES PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

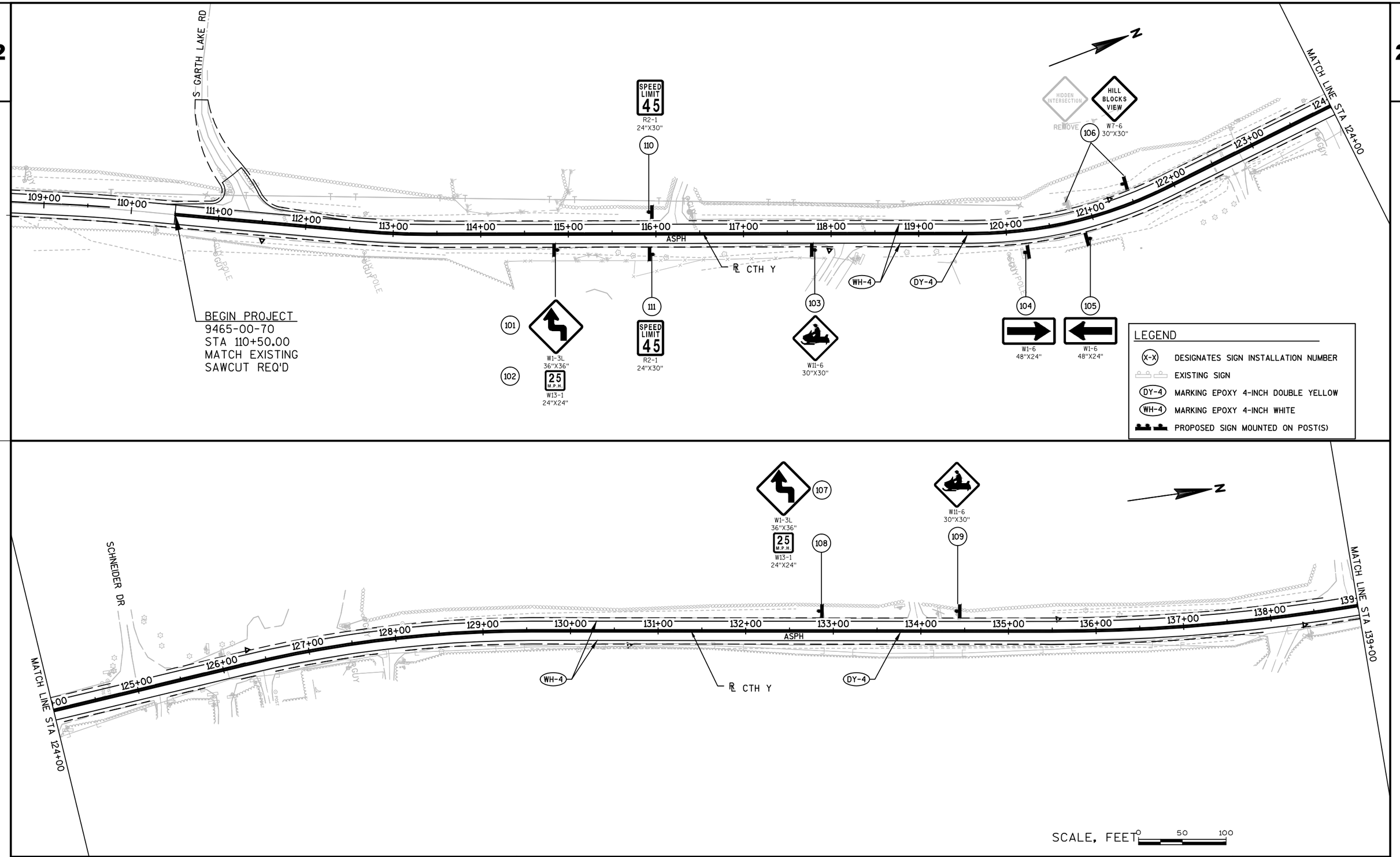


2

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	EROSION CONTROL: CTH Y	SHEET 16	E

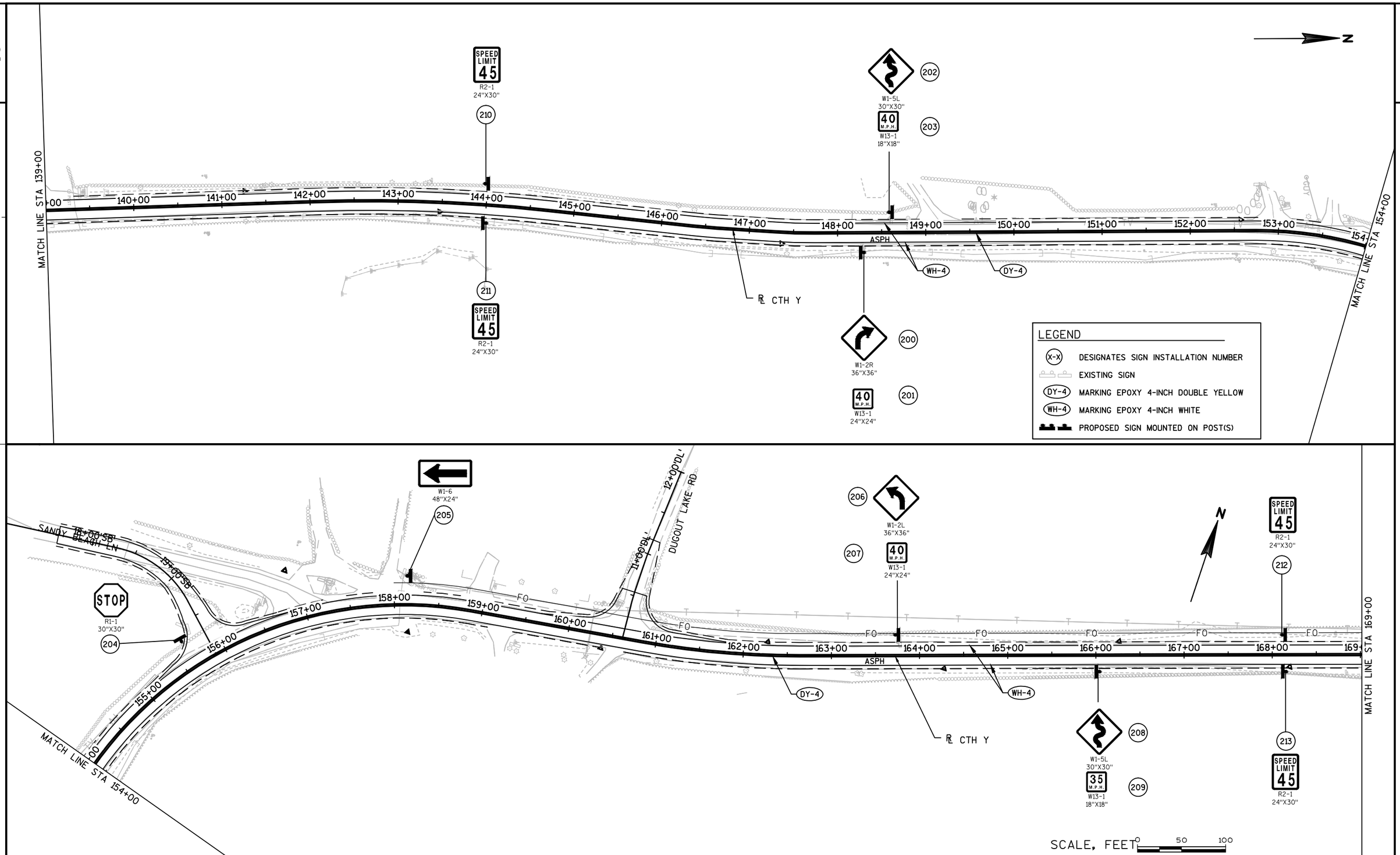
FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\022002 EC.DWG PLOT DATE : 4/28/2017 7:57 AM PLOT BY : BOBBY JONES PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



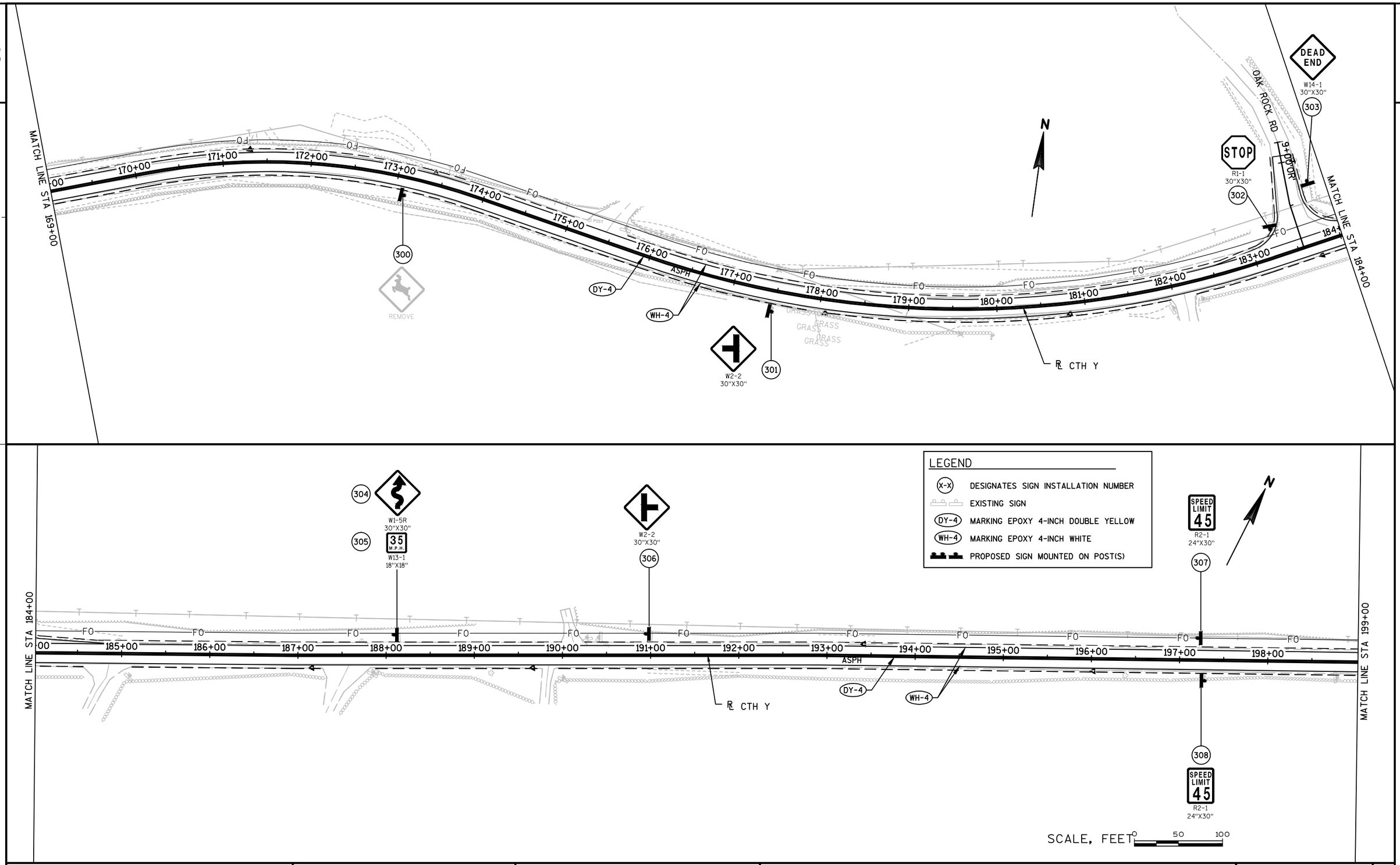
PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	PERMANENT SIGNING AND PAVEMENT MARKING: CTH Y	SHEET 17	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\023202 PS.DWG PLOT DATE : 9/14/2017 10:07 AM PLOT BY : BOBBY JONES PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	PERMANENT SIGNING AND PAVEMENT MARKING: CTH Y	SHEET	E

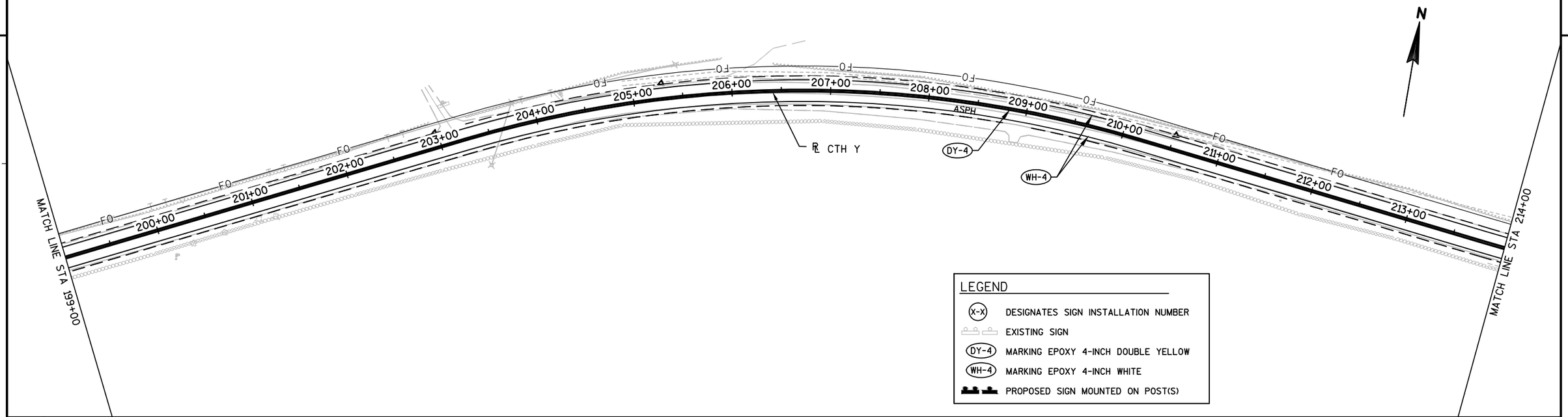
FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\023202 PS.DWG PLOT DATE : 9/14/2017 10:07 AM PLOT BY : BOBBY JONES PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

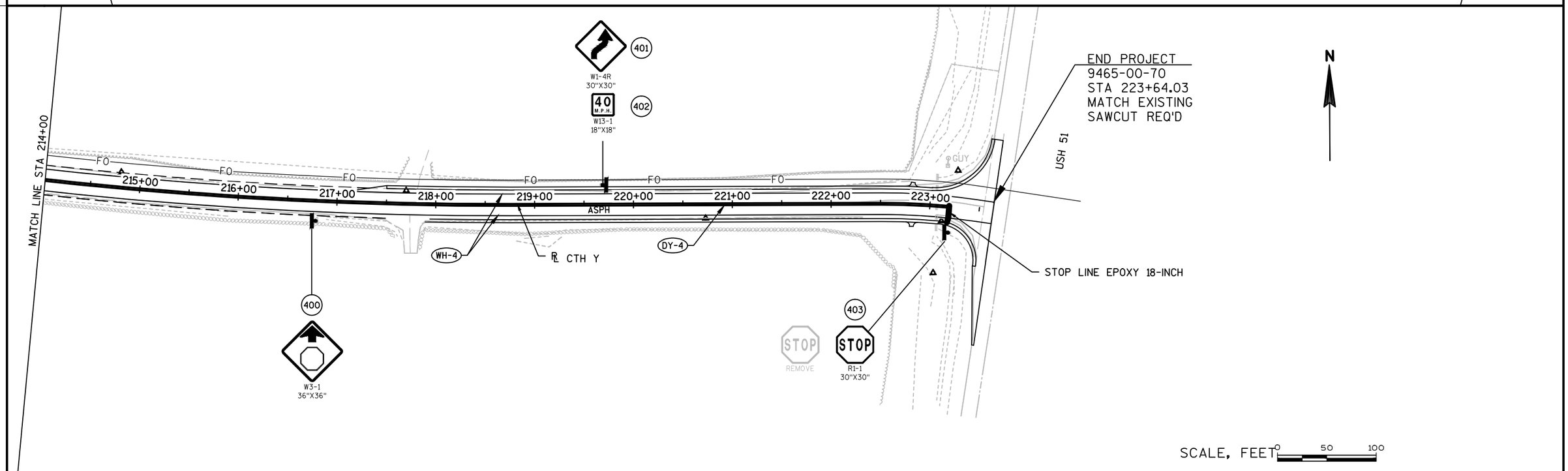


PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	PERMANENT SIGNING AND PAVEMENT MARKING: CTH Y	SHEET 19	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\023202 PS.DWG PLOT DATE : 9/14/2017 10:08 AM PLOT BY : BOBBY JONES PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2





PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	PERMANENT SIGNING AND PAVEMENT MARKING: CTH Y	SHEET 20	E

LEGEND

WORK ZONE CLOSED TO TRAFFIC

DETOUR ROUTE

POST MOUNTED SIGN

TYPE III BARRICADE WITH ATTACHED SIGN

GENERAL NOTES:

ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

FLAGGERS MAY BE REQUIRED FOR MOVING WORK OPERATIONS.

SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

"WO" IS SAME AS "W", EXCEPT ORANGE.

"MO" IS SAME AS "M", EXCEPT ORANGE.

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

ANY EXISTING TRAFFIC SIGNS THAT CONFLICT WITH THIS WORK SHALL BE COVERED AS DIRECTED BY THE ENGINEER.

FOR MORE INFORMATION SEE STANDARD DETAIL DRAWINGS: "BARRICADES AND SIGNS FOR MAINLINE CLOSURES", "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES", AND "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".

DETOUR AHEAD W20-2-A

DETOUR NEXT 21 MILES G20-51 60"X24"

ROAD CLOSED 14 MILES AHEAD LOCAL TRAFFIC ONLY R11-3 60"X30"

ROAD CLOSED 19 MILES AHEAD LOCAL TRAFFIC ONLY R11-3 60"X30"

ROAD CLOSED 7.7MILES AHEAD LOCAL TRAFFIC ONLY R11-3 60"X30"

ROAD CLOSED 3 MILES AHEAD LOCAL TRAFFIC ONLY R11-3 60"X30"

TYPE III BARRICADE

END DETOUR M4-8A 24"X18"

DETOUR M4-8 24"X12"

NORTH M3-1 24"X12"

SOUTH M3-3 24"X12"

COUNTY Y M1-5A 24"X24"

M6-1 21"X21"

M5-1L 21"X21"

M5-1R 21"X21"

HWY 8

HWY L

HWY N

OLD 8 RD

BROWN RD

LEE RD

TOWER RD

WILLOW DAM RD

CEDAR FALLS RD

500'

SWAMP LAKE RD

OLD HWY K

ROCKY RUN RD

KLADE RD

MC CORMIC LAKE RD

S LEISURE RD

N LEISURE RD

S GARTH LAKE RD

WARBONNET LN

S BLUE LAKE RD

51

DETOUR ROUTE

SEE DETAIL A

SEE DETAIL B

N

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	TRAFFIC CONTROL: CTH Y DETOUR	SHEET 21	E

2

N

COUNTY Y

DETOUR
M4-8
24"X12"
SOUTH
M3-3
24"X12"
COUNTY Y
REMOVE
M6-1
21"X21"

JCT
COUNTY Y

DETOUR
M4-8
24"X12"
SOUTH
M3-3
24"X12"
COUNTY Y
M1-5A
24"X24"
M6-1
21"X21"

SOUTH
M3-3
24"X12"
COUNTY Y
M1-5A
24"X24"
DETOUR AHEAD
W20-2-A

DETOUR
NEXT 21 MILES
G20-51
60"X24"

51

500'

1000'

END
DETOUR
M4-8A
24"X18"
COUNTY Y

USE SDD "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY" FOR WROK ALONG USH 51

S BLUE LAKE RD

51

DETAIL A

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	TRAFFIC CONTROL: CTH Y DETOUR	SHEET	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\027001 DT.DWG
LAYOUT NAME - 027002 DT
PLOT DATE : 7/5/2017 2:16 PM
PLOT BY : JESSICA LEWIS, PE
PLOT NAME :
PLOT SCALE : 1 IN:1000 FT
WISDOT/CADDS SHEET 42

2

N

KLADE RD

8

51

51

8

DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
COUNTY Y M1-5A 24"X24"
M6-1 21"X21"

DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
COUNTY Y M1-5A 24"X24"
M5-1L 21"X21"

DETOUR M4-8 24"X12"
SOUTH M3-3 24"X12"
COUNTY Y M1-5A 24"X24"
M6-1 21"X21"

DETOUR M4-8 24"X12"
SOUTH M3-3 24"X12"
COUNTY Y M1-5A 24"X24"
M5-1R 21"X21"

DETOUR M4-8 24"X12"
SOUTH M3-3 24"X12"
COUNTY Y M1-5A 24"X24"
M5-2R 21"X21"

DETOUR M4-8 24"X12"
SOUTH M3-3 24"X12"
COUNTY Y M1-5A 24"X24"
M5-2R 21"X21"

500'

1000'

1000'

500'

500'

1000'

1000'

1000'

COUNTY Y M1-5A 24"X24"
DETOUR AHEAD W20-2-A

DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
COUNTY Y M1-5A 24"X24"
M6-1 21"X21"

DETOUR M4-8 24"X12"
SOUTH M3-3 24"X12"
COUNTY Y M1-5A 24"X24"
M5-1L 21"X21"

DETOUR M4-8 24"X12"
SOUTH M3-3 24"X12"
COUNTY Y M1-5A 24"X24"
M6-1 21"X21"

DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
COUNTY Y M1-5A 24"X24"
M6-1 21"X21"

DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
COUNTY Y M1-5A 24"X24"
M6-1 21"X21"

DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
COUNTY Y M1-5A 24"X24"
M5-1R 21"X21"

DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
COUNTY Y M1-5A 24"X24"
M6-1 21"X21"

DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
COUNTY Y M1-5A 24"X24"
M6-1 21"X21"

COUNTY Y M1-5A 24"X24"
DETOUR AHEAD W20-2-A

DETAIL B

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	TRAFFIC CONTROL: CTH Y DETOUR	SHEET 23	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\027001 DT.DWG
LAYOUT NAME - 027003 DT
PLOT DATE : 4/27/2017 3:03 PM
PLOT BY : BOBBY JONES
PLOT NAME :
PLOT SCALE : 1 IN:1000 FT

2

CURVE 1

PI STA = 113+01.48
Y = 206958.493
X = 179043.400
DELTA = 5°13'11"
D = 6°52'42"
T = 37.97'
L = 75.89'
R = 833.00'
PC STA = 112+63.51
Y = 206924.426
X = 179026.633
PT STA = 113+39.40
Y = 206993.945
X = 179056.998
BK = N26°12'17"E
AH = N20°59'06"E
SE = 6%

CURVE 2

PI STA = 120+78.43
Y = 207683.957
X = 179321.662
DELTA = 26°23'26"
D = 11°27'33"
T = 117.23'
L = 230.30'
R = 500.00'
PC STA = 119+61.19
Y = 207574.502
X = 179279.679
PT STA = 121+91.50
Y = 207800.667
X = 179310.618
BK = N20°59'06"E
AH = N05°24'20"W
SE = 6%

CURVE 3

PI STA = 127+91.27
Y = 208397.778
X = 179254.115
DELTA = 13°31'39"
D = 4°05'57"
T = 165.77'
L = 330.00'
R = 1397.72'
PC STA = 126+25.50
Y = 208232.742
X = 179269.732
PT STA = 129+55.51
Y = 208561.888
X = 179277.536
BK = N05°24'20"W
AH = N08°07'19"E
SE = 5.2%

CURVE 4

PI STA = 137+23.25
Y = 209321.932
X = 179386.003
DELTA = 9°31'49"
D = 2°43'42"
T = 175.06'
L = 349.31'
R = 2100.00'
PC STA = 135+48.19
Y = 209148.630
X = 179361.271
PT STA = 138+97.50
Y = 209496.937
X = 179381.700
BK = N08°07'19"E
AH = N01°24'31"W
SE = 4.4%

CURVE 18

PI STA = 18+83.91
Y = 206794.426
X = 178856.521
DELTA = 37°35'47"
D = 57°17'45"
T = 34.04'
L = 65.62'
R = 100.00'
PC STA = 18+49.87
Y = 206807.069
X = 178824.917
PT STA = 19+15.49
Y = 206803.689
X = 178889.276
BK = S68°11'41.8"E
AH = N74°12'31.5"E
SE = NC

CURVE 19

PI STA = 19+67.31
Y = 206817.793
X = 178939.148
DELTA = 21°59'46"
D = 37°12'18"
T = 29.93'
L = 59.12'
R = 154.00'
PC STA = 19+37.39
Y = 206809.648
X = 178910.349
PT STA = 19+96.51
Y = 206814.558
X = 178968.902
BK = N74°12'31.5"E
AH = S83°47'42.9"E
SE = NC

N

CP 4680
PI: 108+00.76
110
C18
C19
CP 101 4580
C1
CP 4513
BEGIN PROJECT
9465-00-70
STA 110+50.00
Y = 206,732.862
X = 178,932.352
PI: 113+01.48
S GARTH LAKE RD
18
115
621.80'
N20° 59' 06"E
CP 4406
CTH Y
120
C2
CP 4217
PC: 119+61.19
PT: 121+91.50
434.01'
N5° 24' 20"W
125
CP 3961
PC: 126+25.50
PI: 120+78.43
PI: 127+91.27
C3
PT: 129+55.51
130
CP 3960
℄ CTH Y
592.69'
N8° 07' 19"E
135
CP 3881
PC: 135+48.19
C4
CP 3778
PT: 138+97.50
PI: 137+23.25
N1° 24' 31"W
307.89'
MATCH LINE STA 140+00

℄ S GARTH LAKE ROAD
PI: 18+11.99
BP: 16+72.71
S60° 59' 11"E
139.27'
PC: 18+49.87
18
S68° 11' 42"E
37.88'
PI: 108+00.76
PC: 109+40.98
PT: 109+75.05
C18
PT: 19+15.49
PC: 19+37.39
21.90'
N74° 12' 30"E
110
C19
N26° 12' 20"E
288.46'
PC: 112+63.51
PT: 113+39.40
PT: 19+96.51
EP: 20+00.00
CP 101 4580
C1
STA 111+40.69=
STA 19+99.76
Y= 206814.35
X= 178972.15
CP 4513

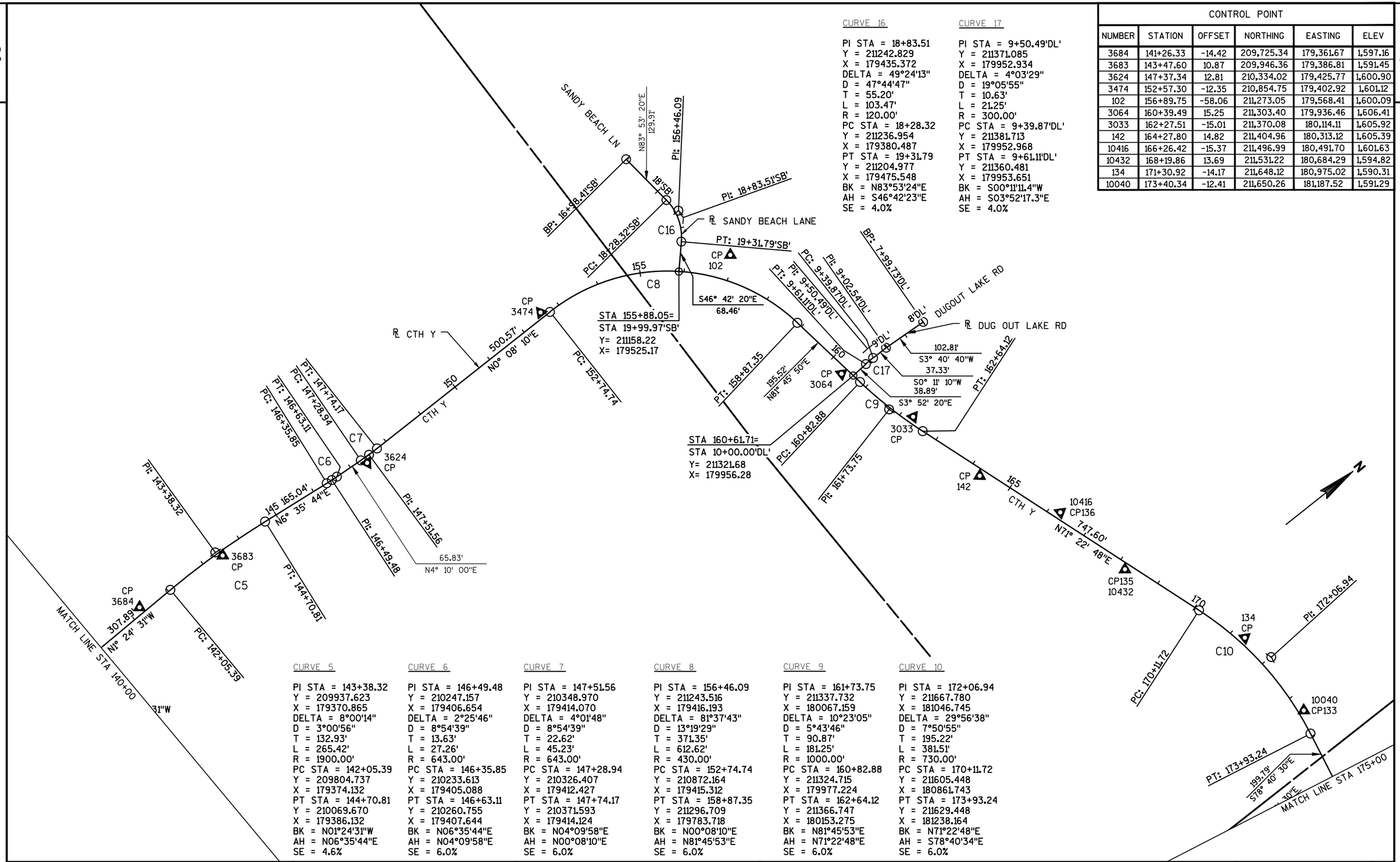
CONTROL POINT

NUMBER	STATION	OFFSET	NORTHING	EASTING	ELEV
4580	111+51.50	20.56	206,814.86	178,995.62	1,588.08
4513	114+04.55	-12.72	207,059.34	179,068.45	1,575.72
4406	117+98.01	18.83	207,415.40	179,238.82	1,589.86
4217	121+24.90	-12.90	207,734.65	179,299.58	1,592.11
3961	126+31.39	-15.74	208,237.19	179,253.51	1,598.72
3960	130+66.88	16.35	208,669.84	179,309.46	1,596.10
3881	135+56.51	-13.79	209,158.76	179,348.77	1,598.58
3778	138+37.30	12.52	209,436.70	179,394.84	1,596.07

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	ALIGNMENT DIAGRAM: CTH Y	SCALE, FEET 0 100 200	SHEET 24	E

2

CONTROL POINT					
NUMBER	STATION	OFFSET	NORTHING	EASTING	ELEV
3684	141+26.33	-14.42	209,725.34	179,361.67	1,597.16
3683	143+47.60	10.87	209,946.36	179,386.81	1,591.45
3624	147+37.34	12.81	210,334.02	179,425.77	1,600.90
3474	152+57.30	-12.35	210,854.75	179,402.92	1,601.12
102	156+89.75	-58.06	211,273.05	179,568.41	1,600.09
3064	160+39.49	15.25	211,303.40	179,936.46	1,606.41
3033	162+27.51	-15.01	211,370.08	180,114.11	1,605.92
142	164+27.80	14.82	211,404.96	180,313.12	1,605.39
10416	166+26.42	-15.37	211,496.99	180,491.70	1,601.63
10432	168+19.86	13.69	211,531.22	180,684.29	1,594.82
134	171+30.92	-14.17	211,648.12	180,975.02	1,590.31
10040	173+40.34	-12.41	211,650.26	181,187.52	1,591.29



CURVE 16

PI STA = 18+83.51
Y = 211242.829
X = 179435.372
DELTA = 49°24'13"
D = 47°44'47"
T = 55.20'
L = 103.47'
R = 120.00'
PC STA = 18+28.32
Y = 211236.954
X = 179380.487
PT STA = 19+31.79
Y = 211204.977
X = 179475.548
BK = N83°53'24"E
AH = S46°42'23"E
SE = 4.0%

CURVE 17

PI STA = 9+50.49'DL'
Y = 211371.085
X = 179952.934
DELTA = 4°03'29"
D = 19°05'55"
T = 10.63'
L = 21.25'
R = 300.00'
PC STA = 9+39.87'DL'
Y = 211381.713
X = 179952.968
PT STA = 9+61.11'DL'
Y = 211360.481
X = 179953.651
BK = S00°11'11.4"W
AH = S03°52'17.3"E
SE = 4.0%

CURVE 5

PI STA = 143+38.32
Y = 209937.623
X = 179370.865
DELTA = 8°00'14"
D = 3°00'56"
T = 132.93'
L = 265.42'
R = 1900.00'
PC STA = 142+05.39
Y = 209804.737
X = 179374.132
PT STA = 144+70.81
Y = 210069.670
X = 179386.132
BK = N01°24'31"W
AH = N06°35'44"E
SE = 4.6%

CURVE 6

PI STA = 146+49.48
Y = 210247.157
X = 179406.654
DELTA = 2°25'46"
D = 8°54'39"
T = 13.63'
L = 27.26'
R = 643.00'
PC STA = 146+35.85
Y = 210233.613
X = 179405.088
PT STA = 146+63.11
Y = 210260.755
X = 179407.644
BK = N06°35'44"E
AH = N04°09'58"E
SE = 6.0%

CURVE 7

PI STA = 147+51.56
Y = 210348.970
X = 179414.070
DELTA = 4°01'48"
D = 8°54'39"
T = 22.62'
L = 45.23'
R = 643.00'
PC STA = 147+28.94
Y = 210326.407
X = 179412.427
PT STA = 147+74.17
Y = 210371.593
X = 179414.124
BK = N04°09'58"E
AH = N00°08'10"E
SE = 6.0%

CURVE 8

PI STA = 156+46.09
Y = 211243.516
X = 179416.193
DELTA = 81°37'43"
D = 13°19'29"
T = 371.35'
L = 612.62'
R = 430.00'
PC STA = 152+74.74
Y = 210872.164
X = 179415.312
PT STA = 158+87.35
Y = 211296.709
X = 179783.718
BK = N00°08'10"E
AH = N81°45'53"E
SE = 6.0%

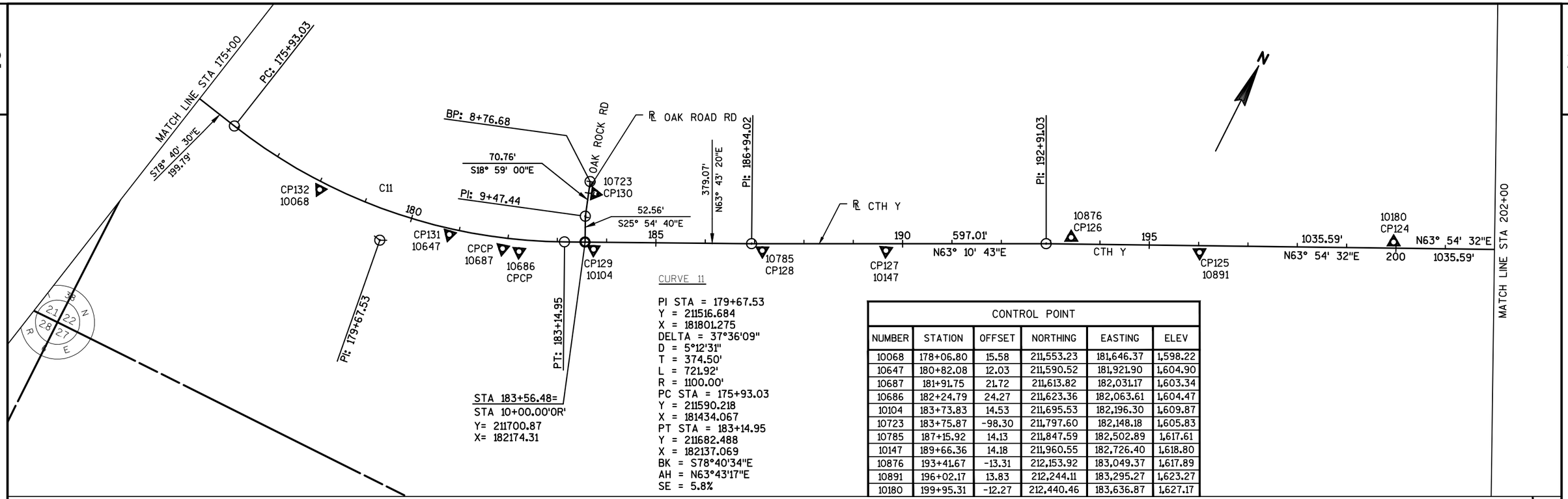
CURVE 9

PI STA = 161+73.75
Y = 211337.732
X = 180067.159
DELTA = 10°23'05"
D = 5°43'46"
T = 90.87'
L = 181.25'
R = 1000.00'
PC STA = 160+82.88
Y = 211324.715
X = 179977.224
PT STA = 162+64.12
Y = 211366.747
X = 180153.275
BK = N81°45'53"E
AH = N71°22'48"E
SE = 6.0%

CURVE 10

PI STA = 172+06.94
Y = 211667.780
X = 181046.745
DELTA = 29°56'38"
D = 7°50'55"
T = 195.22'
L = 381.51'
R = 730.00'
PC STA = 170+11.72
Y = 211605.448
X = 180861.743
PT STA = 173+93.24
Y = 211629.448
X = 181238.164
BK = N71°22'48"E
AH = S78°40'34"E
SE = 6.0%

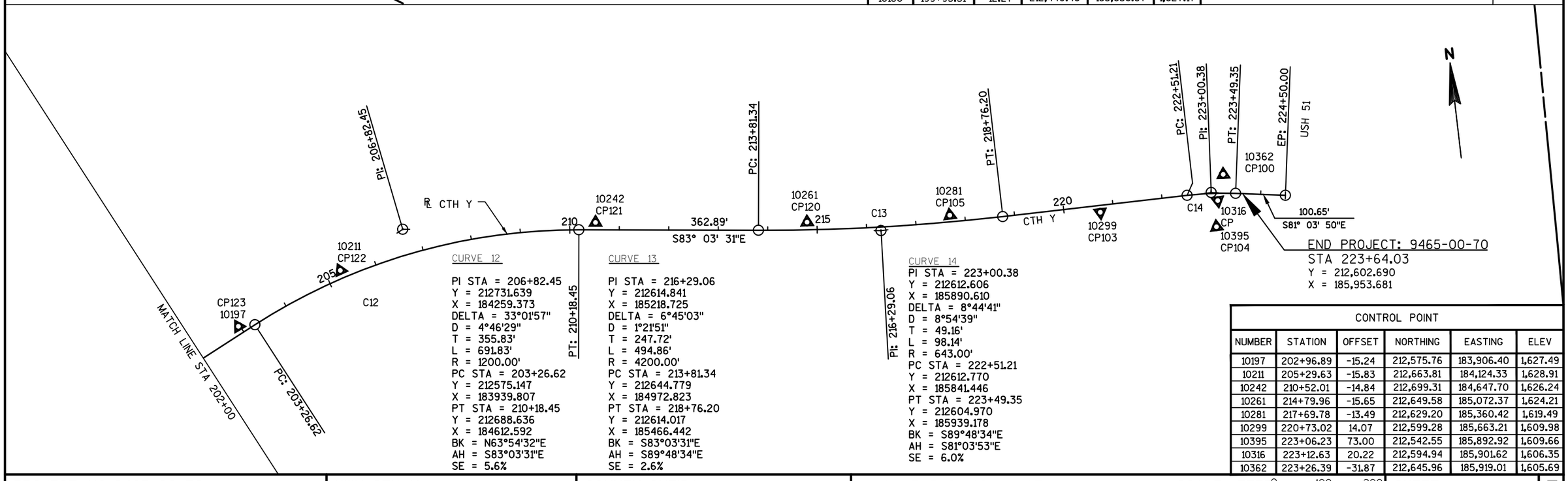
PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	ALIGNMENT DIAGRAM: CTH Y	SCALE, FEET 0 100 200	SHEET 25	E



CURVE 11

PI STA = 179+67.53
Y = 211516.684
X = 181801.275
DELTA = 37°36'09"
D = 5°12'31"
T = 374.50'
L = 721.92'
R = 1100.00'
PC STA = 175+93.03
Y = 211590.218
X = 181434.067
PT STA = 183+14.95
Y = 211682.488
X = 182137.069
BK = S78°40'34"E
AH = N63°43'17"E
SE = 5.8%

CONTROL POINT					
NUMBER	STATION	OFFSET	NORTHING	EASTING	ELEV
10068	178+06.80	15.58	211,553.23	181,646.37	1,598.22
10647	180+82.08	12.03	211,590.52	181,921.90	1,604.90
10687	181+91.75	21.72	211,613.82	182,031.17	1,603.34
10686	182+24.79	24.27	211,623.36	182,063.61	1,604.47
10104	183+73.83	14.53	211,695.53	182,196.30	1,609.87
10723	183+75.87	-98.30	211,797.60	182,148.18	1,605.83
10785	187+15.92	14.13	211,847.59	182,502.89	1,617.61
10147	189+66.36	14.18	211,960.55	182,726.40	1,618.80
10876	193+41.67	-13.31	212,153.92	183,049.37	1,617.89
10891	196+02.17	13.83	212,244.11	183,295.27	1,623.27
10180	199+95.31	-12.27	212,440.46	183,636.87	1,627.17



CURVE 12

PI STA = 206+82.45
Y = 212731.639
X = 184259.373
DELTA = 33°01'57"
D = 4°46'29"
T = 355.83'
L = 691.83'
R = 1200.00'
PC STA = 203+26.62
Y = 212575.147
X = 183939.807
PT STA = 210+18.45
Y = 212688.636
X = 184612.592
BK = N63°54'32"E
AH = S83°03'31"E
SE = 5.6%

CURVE 13

PI STA = 216+29.06
Y = 212614.841
X = 185218.725
DELTA = 6°45'03"
D = 1°21'51"
T = 247.72'
L = 494.86'
R = 4200.00'
PC STA = 213+81.34
Y = 212644.779
X = 184972.823
PT STA = 218+76.20
Y = 212614.017
X = 185466.442
BK = S83°03'31"E
AH = S89°48'34"E
SE = 2.6%

CURVE 14

PI STA = 223+00.38
Y = 212612.606
X = 185890.610
DELTA = 8°44'41"
D = 8°54'39"
T = 49.16'
L = 98.14'
R = 643.00'
PC STA = 222+51.21
Y = 212612.770
X = 185841.446
PT STA = 223+49.35
Y = 212604.970
X = 185939.178
BK = S89°48'34"E
AH = S81°03'53"E
SE = 6.0%

CONTROL POINT					
NUMBER	STATION	OFFSET	NORTHING	EASTING	ELEV
10197	202+96.89	-15.24	212,575.76	183,906.40	1,627.49
10211	205+29.63	-15.83	212,663.81	184,124.33	1,628.91
10242	210+52.01	-14.84	212,699.31	184,647.70	1,626.24
10261	214+79.96	-15.65	212,649.58	185,072.37	1,624.21
10281	217+69.78	-13.49	212,629.20	185,360.42	1,619.49
10299	220+73.02	14.07	212,599.28	185,663.21	1,609.98
10395	223+06.23	73.00	212,542.55	185,892.92	1,609.66
10316	223+12.63	20.22	212,594.94	185,901.62	1,606.35
10362	223+26.39	-31.87	212,645.96	185,919.01	1,605.69

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	ALIGNMENT DIAGRAM: CTH Y	SCALE, FEET 0 100 200	SHEET 26	E

9465-00-70

Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	77.000	77.000
0004	201.0205	Grubbing	STA	77.000	77.000
0006	203.0100	Removing Small Pipe Culverts	EACH	3.000	3.000
0008	204.0115	Removing Asphaltic Surface Butt Joints	SY	889.000	889.000
0010	204.0150	Removing Curb & Gutter	LF	138.000	138.000
0012	204.9060.S	Removing (item description) 01. Removing Landscaping	EACH	1.000	1.000
0014	205.0100	Excavation Common	CY	2,650.000	2,650.000
0016	208.0100	Borrow	CY	3,633.000	3,633.000
0018	213.0100	Finishing Roadway (project) 01. 9465-00-70	EACH	1.000	1.000
0020	214.0100	Obliterating Old Road	STA	1.000	1.000
0022	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,124.000	2,124.000
0024	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	12,234.000	12,234.000
0026	325.0100	Pulverize and Relay	SY	34,500.000	34,500.000
0028	374.1020.S	QMP Pulverize and Relay Compaction	SY	34,500.000	34,500.000
0030	416.1010	Concrete Surface Drains	CY	2.000	2.000
0032	440.4410	Incentive IRI Ride	DOL	4,293.000	4,293.000
0034	455.0605	Tack Coat	GAL	1,496.000	1,496.000
0036	460.2000	Incentive Density HMA Pavement	DOL	4,542.000	4,542.000
0038	460.6223	HMA Pavement 3 MT 58-28 S	TON	3,986.000	3,986.000
0040	460.6244	HMA Pavement 4 MT 58-34 S	TON	3,096.000	3,096.000
0042	465.0315	Asphaltic Flumes	SY	20.000	20.000
0044	521.1012	Apron Endwalls for Culvert Pipe Steel 12-Inch	EACH	2.000	2.000
0046	521.1018	Apron Endwalls for Culvert Pipe Steel 18-Inch	EACH	2.000	2.000
0048	522.0324	Culvert Pipe Reinforced Concrete Class IV 24-Inch	LF	58.000	58.000
0050	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	2.000	2.000
0052	530.0112	Culvert Pipe Corrugated Polyethylene 12-Inch	LF	28.000	28.000
0054	530.0118	Culvert Pipe Corrugated Polyethylene 18-Inch	LF	50.000	50.000
0056	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	1,217.000	1,217.000
0058	618.0100	Maintenance And Repair of Haul Roads (project) 01. 9465-00-70	EACH	1.000	1.000
0060	619.1000	Mobilization	EACH	1.000	1.000
0062	624.0100	Water	MGAL	433.000	433.000
0064	625.0500	Salvaged Topsoil	SY	28,250.000	28,250.000
0066	627.0200	Mulching	SY	27,880.000	27,880.000
0068	628.1504	Silt Fence	LF	13,940.000	13,940.000
0070	628.1520	Silt Fence Maintenance	LF	13,940.000	13,940.000
0072	628.1905	Mobilizations Erosion Control	EACH	6.000	6.000
0074	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0076	628.2004	Erosion Mat Class I Type B	SY	417.000	417.000

9465-00-70

Line	Item	Item Description	Unit	Total	Qty
0078	628.7504	Temporary Ditch Checks	LF	975.000	975.000
0080	628.7555	Culvert Pipe Checks	EACH	9.000	9.000
0082	629.0210	Fertilizer Type B	CWT	17.800	17.800
0084	630.0120	Seeding Mixture No. 20	LB	763.000	763.000
0086	630.0200	Seeding Temporary	LB	381.000	381.000
0088	633.5200	Markers Culvert End	EACH	4.000	4.000
0090	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	1.000	1.000
0092	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	23.000	23.000
0094	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	5.000	5.000
0096	637.2210	Signs Type II Reflective H	SF	55.540	55.540
0098	637.2230	Signs Type II Reflective F	SF	159.250	159.250
0100	638.2602	Removing Signs Type II	EACH	30.000	30.000
0102	638.3000	Removing Small Sign Supports	EACH	30.000	30.000
0104	642.5001	Field Office Type B	EACH	1.000	1.000
0106	643.0420	Traffic Control Barricades Type III	DAY	560.000	560.000
0108	643.0705	Traffic Control Warning Lights Type A	DAY	1,120.000	1,120.000
0110	643.0900	Traffic Control Signs	DAY	10,640.000	10,640.000
0112	643.0920	Traffic Control Covering Signs Type II	EACH	1.000	1.000
0114	643.5000	Traffic Control	EACH	1.000	1.000
0116	646.1020	Marking Line Epoxy 4-Inch	LF	45,080.000	45,080.000
0118	646.6120	Marking Stop Line Epoxy 18-Inch	LF	17.000	17.000
0120	650.4500	Construction Staking Subgrade	LF	495.000	495.000
0122	650.5000	Construction Staking Base	LF	495.000	495.000
0124	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	1,217.000	1,217.000
0126	650.6000	Construction Staking Pipe Culverts	EACH	3.000	3.000
0128	650.8000	Construction Staking Resurfacing Reference	LF	11,414.000	11,414.000
0130	650.9910	Construction Staking Supplemental Control (project) 01. 9465-00-70	LS	1.000	1.000
0132	650.9920	Construction Staking Slope Stakes	LF	11,909.000	11,909.000
0134	690.0150	Sawing Asphalt	LF	267.000	267.000
0136	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	300.000	300.000
0138	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	600.000	600.000
0140	SPV.0170	Special 01. Proof Rolling	STA	110.000	110.000
0142	SPV.0180	Special 01. Salvaged Base	SY	3,450.000	3,450.000

3

CLEARING AND GRUBBING ITEMS

STATION	-	STATION	LOCATION	201.0105 CLEARING (STA)	201.0205 GRUBBING (STA)
114+00	-	116+00	LT	2	2
121+00	-	123+00	LT	2	2
124+00	-	128+00	RT	4	4
129+00	-	132+00	RT	3	3
136+00	-	138+00	LT	2	2
139+00	-	147+00	LT & RT	8	8
154+00	-	156+00	LT & RT	2	2
160+00	-	168+00	LT & RT	8	8
169+00	-	183+00	LT & RT	14	14
191+00	-	193+00	LT	2	2
196+00	-	199+00	RT	3	3
200+00	-	223+00	LT & RT	23	23
19+00'GL'	-	20+00'GL'	S GARTH LAKE RD	1	1
18+00'SB'	-	20+00'SB'	SANDY BEACH LN	2	2
9+00'DL'	-	10+00'DL'	DUGOUT LAKE RD	1	1
TOTALS				**77**	**77**

REMOVING SMALL PIPE CULVERTS

STATION	LOCATION	203.0100 EACH	COMMENTS
CATEGORY CODE 0010			
122+50	CL	1	18" CMP
122+71	RT	1	18" CMP
223+03	CL	1	24" CMP
TOTALS		**3**	

REMOVALS

STATION	LOCATION	REMOVING 01. LANDSCAPING 204.9060.S EACH	COMMENTS
CATEGORY CODE 0020			
149+60	LT	1	STONE PILLAR
TOTALS		**1**	

REMOVING ASPHALTIC SURFACE

STATION	-	STATION	LOCATION	204.0115 BUTT JOINTS SY	214.0100 OBLITERATING OLD ROAD STA
110+50	-	11225	CTH Y	433	--
			SANDY BEACH	--	1
			OAK ROCK	456	--
TOTALS				**889**	**1**

REMOVING CURB & GUTTER

STATION	LOCATION	204.0150 LF
CATEGORY CODE 0010		
223+00	LT & RT	138
TOTALS		**138**

3

From / To Station	Location	Common Excavation (1) (item # 205.0100) Cut (2) CY	EBS Excavation CY	Salvaged / Unusable Pavement Material (4) CY	Available Material (5) CY	Unexpanded Fill CY	Expanded Fill (13) Factor 1.25 CY	Mass Ordinate +/- (14) CY	Waste CY	Borrow (item #208.0100) CY
110+50 to 223+64	Mainline stage 1	2456	0	0	2456	2857	3571	-1116	0	1116
	S Garth Lake	86	0	0	86	0	0	86	86	0
	Sandy Beach	63	0	0	63	241	301	-238	0	238
	Dugout Lake	45	0	0	45	2	3	42	42	0
Undistributed (Superelevation Correction)										2280
Grand Total		**2650**	**0**	**0**	**2650**	**3100**	**3875**	**-1225**	**128**	**3633**
		Total Common Exc	2650							

1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100

2) Salvaged/Unsuable Pavement Material is included in Cut.

4) Salvaged/Unusable Pavement Material

5) Available Material = Cut - Salvaged/Unusuable Pavement Material

13) Expanded Fill. Factor = 1.25

Depending on selections:

Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced Marsh - Reduced EBS) * Fill Factor

Or Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced EBS) * Fill Factor

Or Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced Marsh) * Fill Factor

Or Expanded Fill = (Unexpanded Fill - Rock* Rock Factor) * Fill Factor

14) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

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AGGREGATE ITEMS

STATION - STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	624.0100 WATER MGAL
CATEGORY CODE 0010				
110+50 - 223+64	MAINLINE	1,790	11,500	399
110+50 - 223+64	SIDEROADS	--	734	23
110+50 - 223+64	DRIVEWAYS	334	--	11
	PROJECT TOTALS	**2,124**	**12,234**	**433**

CONCRETE CURB AND GUTTER ITEMS

STATION - STATION	LOCATION	416.1010 CONCRETE SURFACE DRAINS CY	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	650.5500 CONSTRUCTION STAKING CURB & GUTTER LF
CATEGORY CODE 0010				
217+50 - 223+50	LT	1	639	639
217+90 - 223+50	RT	1	578	578
	TOTALS	**2**	**1,217**	**1,217**

PULVERIZE AND RELAY

STATION - STATION	LOCATION	325.0100 SY	374.1020.S QMP COMPACTION SY	SPV.0170.01 PROOF ROLLING STA	SPV.0180.01 SALVAGED BASE SY
112+25 - 222+00	CTH Y	34,500	34,500	110	3,450
TOTALS		**34,500**	**34,500**	**110**	**3,450**

ASPHALTIC ITEMS

STATION - STATION	LOCATION	455.0605 TACK COAT GAL	460.6223 HMA Pavement 3 MT 58-28 S TON	460.6244 HMA Pavement 4 MT 58-34 S TON	465.0315 ASPHALT FLUMES SY
CATEGORY CODE 0010					
110+50 - 217+50	MAINLINE	1,310	3,500	2,720	--
217+50 - 223+65	MAINLINE	103	275	213	20
18+30'SB' - 20+00'SB'	SANDY BEACH LN	34	87	67	--
	SIDEROADS	49	124	96	--
	TOTALS	**1,496**	**3,986**	**3,096**	**20**

CULVERT PIPE ITEMS

STATION	LOCATION	CULVERT PIPE CORRUGATED POLYETHLENE 530.0112 12-INCH LF	CULVERT PIPE CORRUGATED POLYETHLENE 530.0118 18-INCH LF	CULVERT PIPE REINFORCED CONCRETE CLASS IV 522.0324 24-INCH LF	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 522.1024 24-INCH EACH	APRON ENDWALLS FOR CULVERT PIPE 521.1012 12-INCH EACH	APRON ENDWALLS FOR CULVERT PIPE 521.1018 18-Inch EACH	MARKER POSTS CULVERT END 633.52 FLEXIBLE EACH	CULVERT PIPE CHECKS 628.7555 PIPE CULVERTS EACH	CONSTRUCTION STAKING 650.6000 PIPE CULVERTS EACH
CATEGORY CODE 0010										
122+50	CL	--	50	--	--	--	2	2	3	1
122+71	RT	28	--	--	--	2	--	--	3	1
223+03	CL	--	--	58	2	--	--	2	3	1
	TOTALS	**28**	**50**	**58**	**2**	**2**	**2**	**4**	**9**	**3**

LANDSCAPING ITEMS

STATION - STATION	LOCATION	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	628.2004 EROSION MAT CLASS I TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEED MIX NO. 20 LBS	630.0200 SEED TEMPORARY LBS
CATEGORY CODE 0010							
110+50 - 223+00	LT & RT	22,600	22,300	333	14.2	610	305
UNDISTRIBUTED (25%)		5,650	5,580	83	3.6	153	76
	TOTALS	**28,250**	**27,880**	**417**	**17.8**	**763**	**381**

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EROSION CONTROL

STATION - STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	MOBILIZATIONS 628.1905 EROSION CONTROL EACH	MOBILIZATIONS 628.1910 EMERGENCY EROSION CONTROL EACH	628.7504 TEMPORARY DITCH CHECKS LF
CATEGORY CODE 0010						
110+50 - 145+00	LT & RT	4,500	4,500	2	1	170
148+00 - 195+00	LT & RT	4,800	4,800	2	1	410
195+00 - 217+00	LT & RT	1,850	1,850	1	1	200
UNDISTRIBUTED (25%)		2,790	2,790	1	1	195
TOTALS		**13,940**	**13,940**	**6**	**4**	**975**

SIGNING ITEMS

SIGN NO.	SIGN CODE	STATION	LOCATION	SIZE	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0612 POSTS WOOD 4X6X12 EACH	634.0614 POSTS WOOD 4X6X14 EACH	634.0616 POSTS WOOD 4X6X16 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	MESSAGE	REMARKS
101	W1-3L	114+90	RT	36" X 36"	-	9.00	---	---	1	1	1	CURVE AHEAD	
102	W13-1	114+90	RT	24" X 24"	-	4.00	---	---	---	--	--	25 MPH WARNING	SAME POST AS 101
103	W11-6	117+90	RT	30" X 30"	-	6.25	---	1	---	1	1	SNOWMOBILE CROSSING	
104	W1-6	120+10	RT	48" X 24"	-	8.00	---	1	---	1	1	NIGHT ARROW	
105	W1-6	120+90	RT	48" X 24"	-	8.00	---	1	---	1	1	NIGHT ARROW	
106	W7-6	120+90	LT	36" X 36"	-	9.00	---	1	---	1	1	HIDDEN INTERSECTION	
107	W1-3L	132+90	LT	36" X 36"	-	9.00	---	---	1	1	1	CURVE AHEAD	
108	W13-1	132+90	LT	24" X 24"	-	4.00	---	---	---	--	--	25 MPH WARNING	SAME POST AS 107
109	W11-6	134+50	LT	30" X 30"	-	6.25	---	1	---	1	1	SNOWMOBILE CROSSING	
110	R2-1	116+00	LT	24" X 30"	5.00	-	---	1	---	1	1	45 MPH	
111	R2-1	116+00	RT	24" X 30"	5.00	-	---	1	---	1	1	45 MPH	
200	W1-2R	148+30	RT	36" X 36"	-	9.00	---	--	1	1	1	CURVE WARNING	
201	W13-1	148+30	RT	24" X 24"	-	4.00	---	--	---	--	--	40 MPH WARNING	SAME POST AS 200
202	W1-5L	148+60	LT	30" X 30"	-	6.25	---	---	1	1	1	CURVE AHEAD	
203	W13-1	148+60	LT	18" X 18"	-	2.25	---	---	---	1	1	40 MPH WARNING	
204	R1-1	156+60	LT	30" X 30"	5.18	-	---	1	---	1	1	STOP SIGN	
205	W1-6	158+00	LT	48" X 24"	-	8.00	---	1	---	1	1	NIGHT ARROW	
206	W1-2L	163+70	LT	36" X 36"	-	9.00	---	---	1	1	1	CURVE WARNING	
207	W13-1	163+70	LT	24" X 24"	-	4.00	---	---	---	--	--	40 MPH WARNING	SAME POST AS 206
208	W1-5L	166+00	RT	30" X 30"	-	6.25	---	1	--	1	1	CURVE AHEAD	
209	W13-1	166+00	RT	18" X 18"	-	2.25	---	---	---	--	--	35 MPH WARNING	SAME POST AS 208
210	R2-1	145+50	LT	24" X 30"	5.00	-	---	1	---	1	1	45 MPH	
211	R2-1	145+50	RT	24" X 30"	5.00	-	---	1	---	1	1	45 MPH	
212	R2-1	168+50	LT	24" X 30"	5.00	-	---	1	---	1	1	45 MPH	
213	R2-1	168+50	RT	24" X 30"	5.00	-	---	1	---	1	1	45 MPH	
301	W2-2	177+45	RT	30" X 30"	-	6.25	---	1	---	1	1	INTERSECTION AHEAD	
302	R1-1	183+30	LT	30" X 30"	5.18	-	---	1	---	1	1	STOP SIGN	
303	W14-1	183+90	LT	30" X 30"	-	6.25	---	1	---	1	1	DEAD END	
304	W1-5R	188+10	LT	30" X 30"	-	6.25	---	1	--	1	1	CURVE AHEAD	
305	W13-1	188+10	LT	18" X 18"	-	2.25	---	---	---	--	--	35 MPH WARNING	SAME POST AS 304
306	W2-2	191+00	LT	30" X 30"	-	6.25	---	1	---	1	1	INTERSECTION AHEAD	
307	R2-1	197+50	LT	24" X 30"	5.00	-	---	1	---	1	1	45 MPH	
308	R2-1	197+50	RT	24" X 30"	5.00	-	---	1	---	1	1	45 MPH	
400	W3-1	216+80	RT	36" X 36"	-	9.00	---	1	---	1	1	STOP AHEAD	
401	W1-4R	219+60	LT	30" X 30"	-	6.25	---	1	--	1	1	CURVE AHEAD	
402	W13-1	219+60	LT	18" X 18"	-	2.25	---	---	---	--	--	40 MPH WARNING	SAME POST AS 401
403	R1-1	223+10	RT	30" X 30"	5.18	-	1	---	---	1	1	STOP SIGN	
				TOTALS	**55.54**	**159.25**	**1**	**23**	**5**	**30**	**30**		

3

TRAFFIC CONTROL ITEMS

LOCATION	643.0420 BARRICADES TYPE III EACH	643.0705 WARNING LIGHTS TYPE A DAYS	643.0900 SIGNS DAYS	643.0920 COVERING SIGNS TYPE II EACH	CYCLES EACH
CATEGORY CODE 0010					
PROJECT	560	1,120	10,640	1	1
TOTALS	**560**	**1,120**	**10,640**	**1**	**1**

MARKING ITEMS

STATION - STATION	LOCATION	646.1020 EPOXY 4-INCH WHITE LF	646.1020 EPOXY 4-INCH YELLOW LF	646.6120 STOP LINE EPOXY 18-INCH LF
CATEGORY CODE 0010				
110+50 - 223+20	CL	---	22,540	17
110+50 - 223+20	EDGELINE	22,540	---	
	TOTALS	**22,540**	**22,540**	**17**
		45,080		

CONSTRUCTION STAKING ITEMS

STATION - STATION	LOCATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.8000 RESURFACING REFERENCE LF	650.9910 SUPPLEMENTAL CONTROL LS	650.9920 SLOPE STAKES LF
CATEGORY CODE 0010						
110+50 - 223+64	MAINLINE	--	--	11,314	1	11,314
18+45 - 20+00	S GARTH LK RD	155	155	--	--	155
17+60 - 20+00	SANDY BEACH LN	240	240	--	--	240
10+00 - 11+00	DUGOUT LK RD	100	100	--	--	100
10+00 - 11+00	OAK ROCK RD	--	--	100	--	100
	TOTALS	**495**	**495**	**11,414**	**1**	**11,909**

SAWING PAVEMENT ITEMS

STATION	LOCATION	690.0150 ASPHALT LF
CATEGORY CODE 0010		
17+60'SB'	SANDY BEACH	19
222+00	MAINLINE	26
223+64	USH 51	222
	TOTALS	**267**

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
9465-00-00		
FEDERAL PROJECT NUMBER N/A	4.01	7

PLAT OF RIGHT OF WAY REQUIRED FOR

LINCOLN COUNTY LINE - USH 51
S. GARTH LAKE ROAD TO USH 51

CTH Y — ONEIDA COUNTY

CONSTRUCTION PROJECT NUMBER 9465-00-70

CAUTION
THIS PLAT IS FOR ILLUSTRATIVE PURPOSES ONLY. DEEDS MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES.

CONVENTIONAL SYMBOLS

- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- NEW REFERENCE LINE
- NEW R/W LINE
- EXISTING R/W OR HE LINE
- PROPERTY LINE
- LOT, TIE & OTHER MINOR LINES
- SLOPE INTERCEPT
- CORPORATE LIMITS
- UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)
- NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
- TEMPORARY LIMITED EASEMENT AREA
- EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
- TRANSMISSION STRUCTURES
- BUILDING — TO BE REMOVED
- BRIDGE
- SECTION CORNER SYMBOL
- SECTION CORNER MONUMENT
- GEODETIC SURVEY MONUMENT
- SIXTEENTH CORNER MONUMENT
- SIGN
- R/W MONUMENT (TO BE SET)
- NON-MONUMENTED R/W POINT
- FOUND IRON PIN (1-INCH UNLESS NOTED) IP
- OFF-PREMISE SIGN
- ELECTRIC POLE — COMPENSABLE / NON-COMPENSABLE
- TELEPHONE POLE
- PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)
- ACCESS RESTRICTED BY ACQUISITION
- NO ACCESS (BY STATUTORY AUTHORITY)
- ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
- NO ACCESS (NEW HIGHWAY)
- PARCEL NUMBER (25)
- UTILITY NUMBER (40)
- PARALLEL OFFSETS

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	POINT OF INTERSECTION	PI
ACRES	AC	PROPERTY LINE	PL
AHEAD	AH	RECORDED AS	(100')
ALUMINUM	ALUM	REEL / IMAGE	R/I
AND OTHERS	ET AL	REFERENCE LINE	R/L
BACK	BK	REMAINING	REM
BLOCK	BLK	RESTICTIVE DEVELOPMENT EASEMENT	RDE
CENTERLINE	C/L	RIGHT	RT
CERTIFIED SURVEY MAP	CSM	RIGHT OF WAY	R/W
CONCRETE	CONC	SECTION	SEC
COUNTY	CO	SEPTIC VENT	SEPV
COUNTY TRUNK HIGHWAY	CTH	SQUARE FEET	SF
DISTANCE	DIST	STATE TRUNK HIGHWAY	STH
CORNER	COR	STATION	STA
DOCUMENT NUMBER	DOC	TELEPHONE PEDESTAL	TP
EASEMENT	EASE	TEMPORARY LIMITED EASEMENT	TLE
EXISTING	EX	TRANSPORTATION PROJECT PLAT	TPP
GAS VALVE	GV	UNITED STATES HIGHWAY	USH
GRID NORTH	GN	VOLUME	V
HIGHWAY EASEMENT	HE		
IDENTIFICATION	ID		
LAND CONTRACT	LC		
LEFT	LT		
MONUMENT	MON		
NATIONAL GEODETIC SURVEY	NGS		
NUMBER	NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
PERMANENT LIMITED EASEMENT	PLE		
POINT OF BEGINNING	POB		
POINT OF CURVATURE	PC		
POINT OF COMPOUND CURVE	PCC		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ/DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

NOTES:

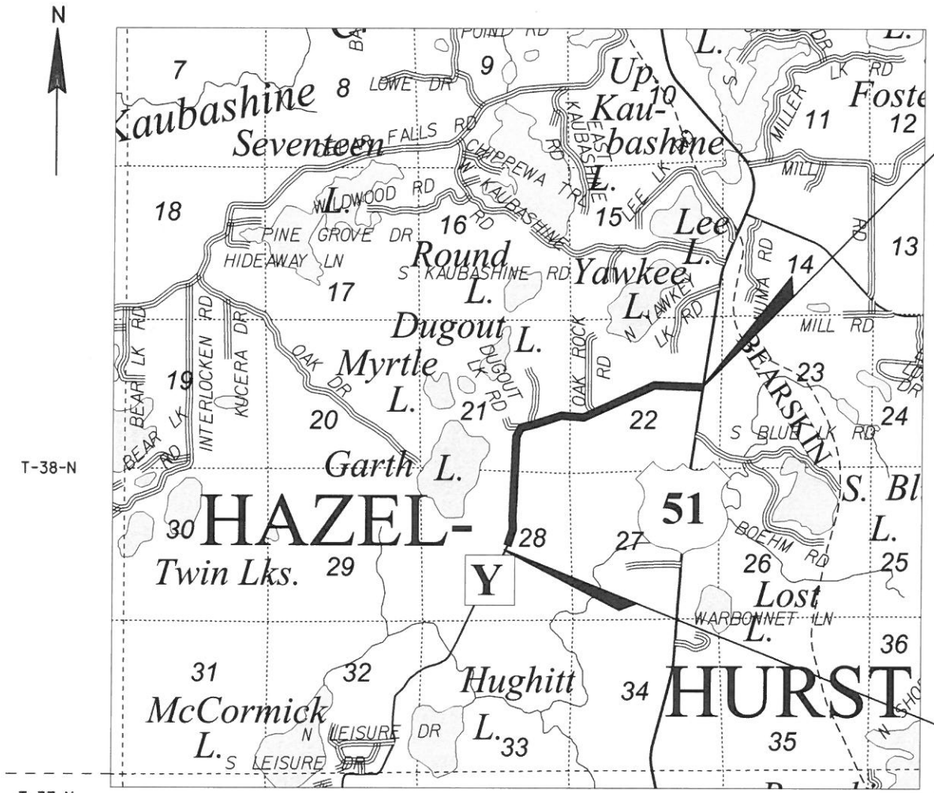
POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), ONEIDA COUNTY, NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT OF WAY MONUMENTS ARE TYPE 2 MONUMENT (TYPICALLY REBAR) AND WILL BE PLACED PRIOR TO OR AT THE TIME OF LAND TITLE TRANSFER.

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

CONVENTIONAL UTILITY SYMBOLS

WATER	W
GAS	G
TELEPHONE	T
OVERHEAD TRANSMISSION LINES	OH
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS



LAYOUT
SCALE 0 — 1 MILE

TOTAL NET LENGTH OF CENTERLINE = 2.093 MI.

END RELOCATION ORDER
STA 222+51.21
Y = 212,612.770
X = 185,841.446
190.02' NORTH AND 731.70' WEST OF THE E. 1/4 CORNER OF SECTION 22 T-38-N, R-6-E

BEGIN RELOCATION ORDER
STA 110+50.00
Y = 206,732.861
X = 178,932.352
395.25' SOUTH AND 2,371.64' WEST OF THE E. 1/4 CORNER OF SECTION 28 T-38-N, R-6-E

ORIGINAL PLAT PREPARED BY
CORRE ENGINEERING
1802 WARDEN STREET
EAU CLAIRE, WI 54703
(608)828-1011
www.correinc.com

WISCONSIN
BRYON J. MOTSZKO
S-2846
MENOMONIE, WI
LAND SURVEYOR

DATE: 3/7/17 Bryon Motszko (Signature)

REVISION DATE

ONEIDA COUNTY HIGHWAY DEPARTMENT

APPR[illegible] FOR THE COUNTY
DATE: 3-23-17

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\040101-RP.DWG
LAYOUT NAME - 040101-RP
PLOT DATE : 1/26/2017 5:06 PM
PLOT BY : BRYON MOTSZKO, PE, PLS
PLOT NAME :
WISDOT/CADDS SHEET 50

4

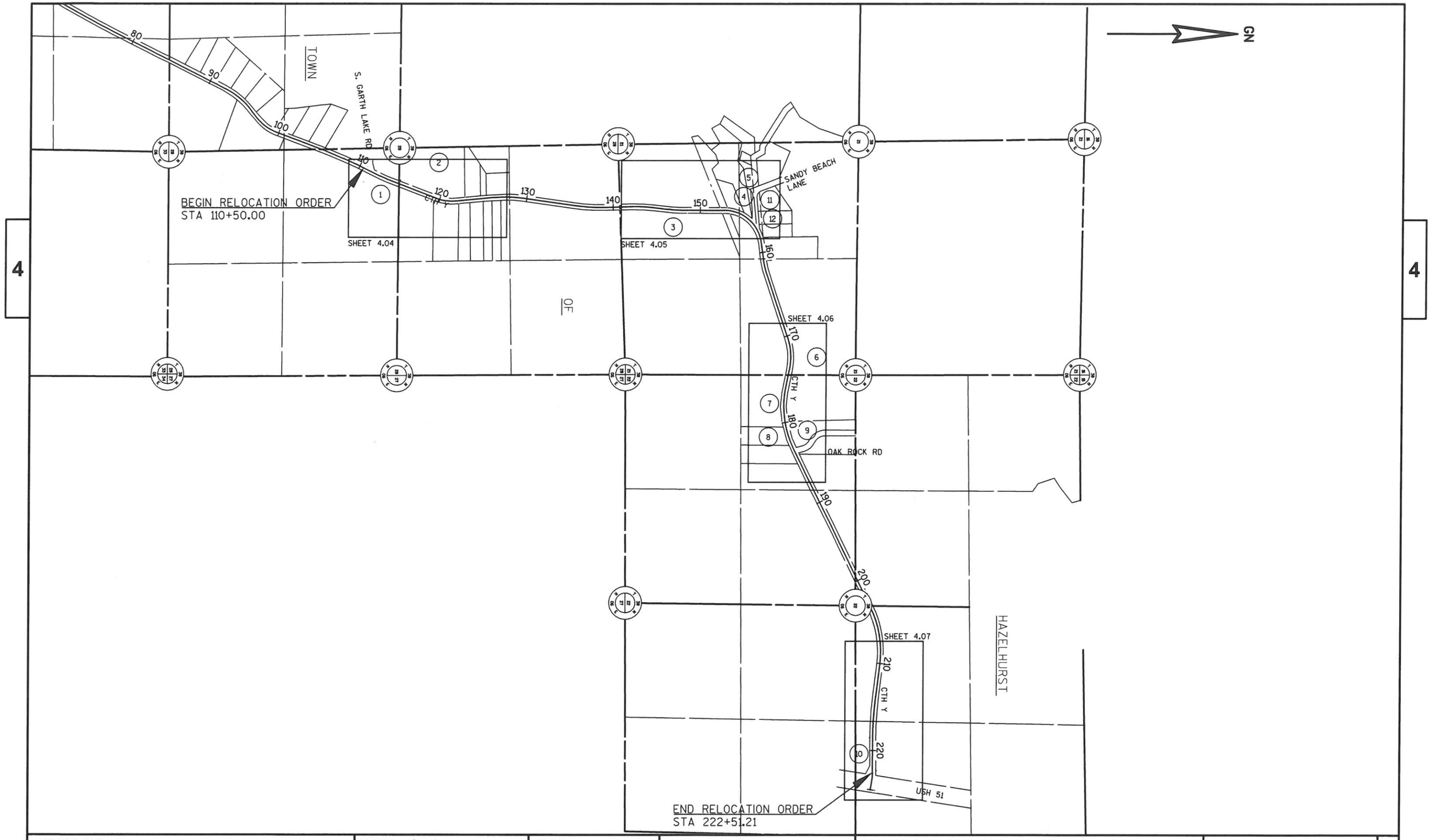
4

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	SHEET NUMBER	OWNER(S)	INTEREST REQUIRED	R/W NEW AC	R/W EXISTING AC	R/W TOTAL AC	TLE AC
1	4.04	BADGER II LIMITED PARTNERSHIP	TLE	---	---	---	0.04
2	4.04	STEVEN E. JOCOBSON & ELIZABETH JACOBSON	TLE	---	---	---	0.15
3	4.05	JAMES SANTARIUS & JANET SANTARIUS	TLE	---	---	---	0.09
4	4.05	APRIL A. STONIS, JOHN W. STONIS, SUE ANN STONIS, CAROL LYNNE KOPCA	FEE	0.04	---	0.04	---
5	4.05	MARK W. JIROUSEK & JOY E. JIROUSEK	FEE	0.01	---	0.01	---
6	4.06	HUGO A. HOEHN & NANCY B. HOEHN	TLE	---	---	---	0.13
7	4.06	NEIL S. MANDEL AS TRUSTEE OF THE MANDEL REVOCABLE TRUST DATED MARCG 8, 2011	TLE	---	---	---	0.14
8	4.06	ALEC JOSEPH NELSON	TLE	---	---	---	0.05
9	4.06	WILLIAM J. BEDARD & TERRI L. BEDARD	TLE	---	---	---	0.11
10	4.07	YAWKEY 4, LLC	TLE	---	---	---	0.13
11	4.05	BENJAMIN R. ZANGERLE & KATHLEEN G. ZANGERLE	TLE	---	---	---	0.04
12	4.05	KEITH HAROLD BULLION & TRUDY BULLION	TLE	---	---	---	0.05
80	4.04, 4.06	FRONTIER COMMUNICATIONS	RELEASE OF RIGHTS				
81	4.04, 4.06	WISCONSIN PUBLIC SERVICE COMMISSION	RELEASE OF RIGHTS				

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

REVISION DATE	DATE 3/7/17	SCALE, FEET	HWY: CTH Y	STATE R/W PROJECT NUMBER 9465-00-00	PLAT SHEET 4.02	
	GRID FACTOR N/A	N/A	COUNTY: ONEIDA	CONSTRUCTION PROJECT NUMBER 9465-00-70	PS&E SHEET 34	

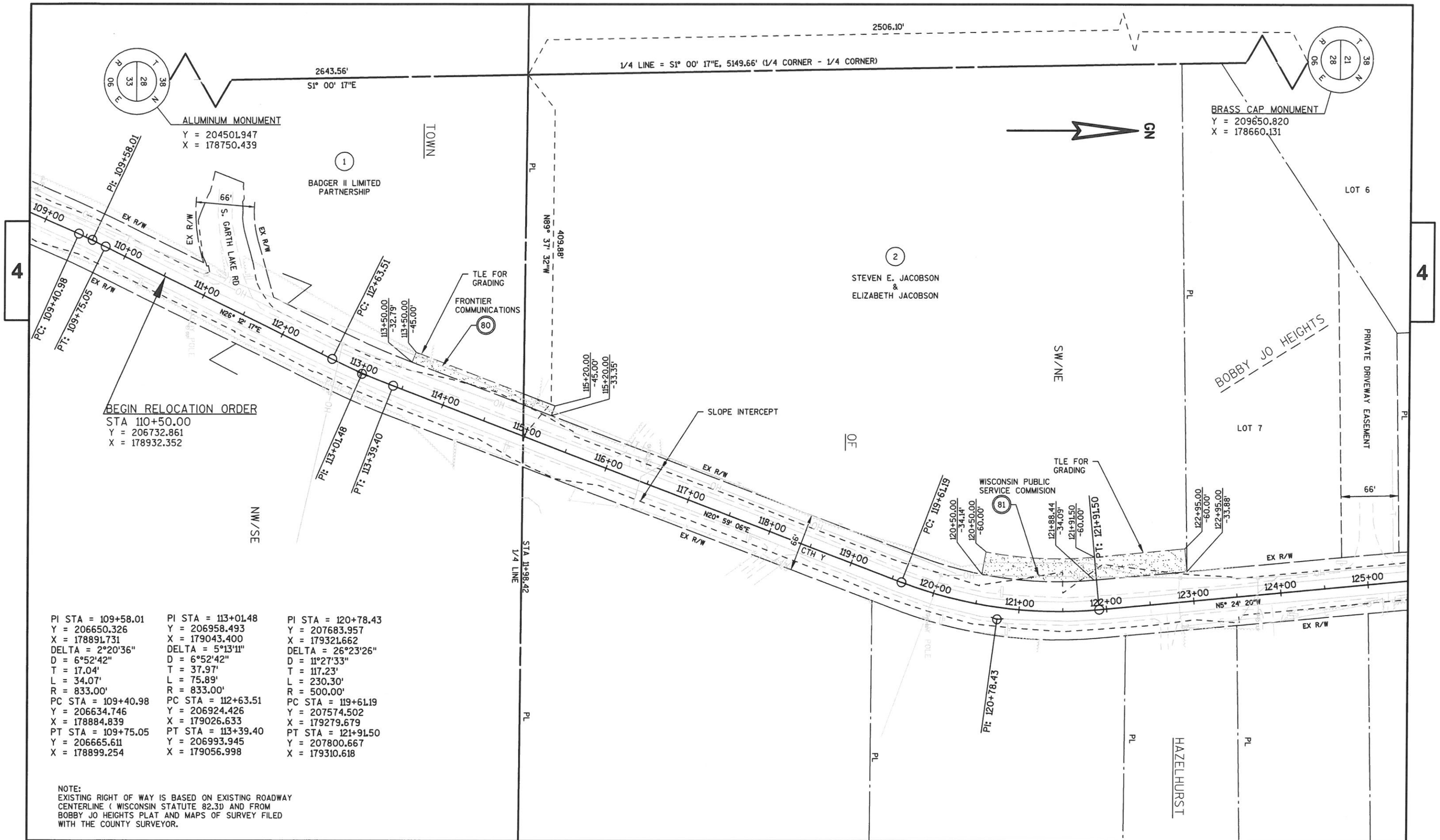


REVISION DATE	DATE 3/7/17	SCALE, NOT TO SCALE	HWY: CTH Y	STATE R/W PROJECT NUMBER 9465-00-00	PLAT SHEET 4.03
	GRID FACTOR N/A		COUNTY: ONEIDA	CONSTRUCTION PROJECT NUMBER 9465-00-70	PS&E SHEET 35

FILE NAME : 040103-RP.DWG
LAYOUT NAME - 040103-RP

PLOT DATE : 1/25/2017 9:50 AM PLOT BY : BRYON MOTSZKO, PE, PLS PLOT NAME : PLOT SCALE : 1 IN:1000 FT

WISDOT/CADDS SHEET 75

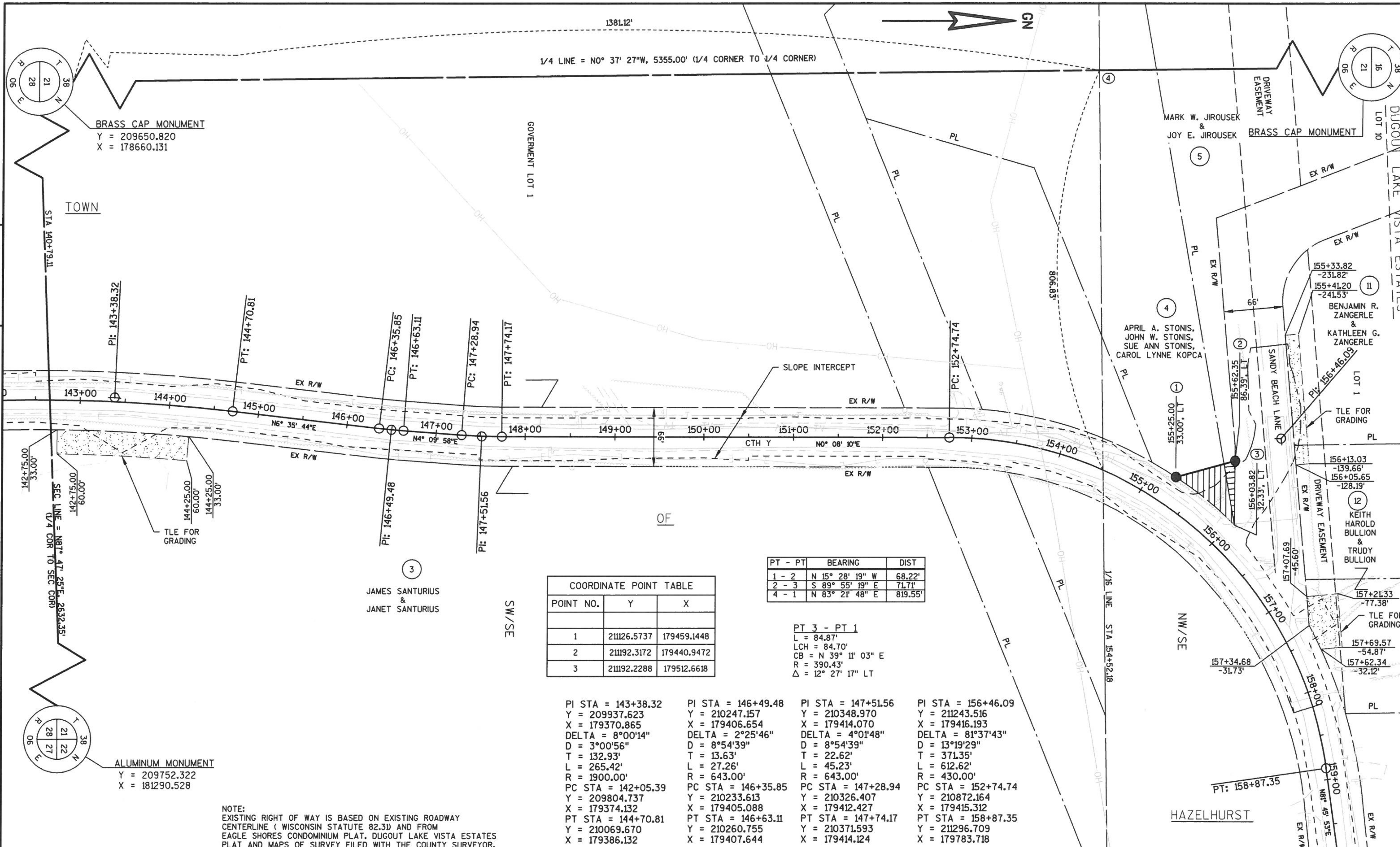


PI STA = 109+58.01	PI STA = 113+01.48	PI STA = 120+78.43
Y = 206650.326	Y = 206958.493	Y = 207683.957
X = 178891.731	X = 179043.400	X = 179321.662
DELTA = 2°20'36"	DELTA = 5°13'11"	DELTA = 26°23'26"
D = 6°52'42"	D = 6°52'42"	D = 11°27'33"
T = 17.04'	T = 37.97'	T = 117.23'
L = 34.07'	L = 75.89'	L = 230.30'
R = 833.00'	R = 833.00'	R = 500.00'
PC STA = 109+40.98	PC STA = 112+63.51	PC STA = 119+61.19
Y = 206634.746	Y = 206924.426	Y = 207574.502
X = 178884.839	X = 179026.633	X = 179279.679
PT STA = 109+75.05	PT STA = 113+39.40	PT STA = 121+91.50
Y = 206665.611	Y = 206993.945	Y = 207800.667
X = 178899.254	X = 179056.998	X = 179310.618

NOTE:
EXISTING RIGHT OF WAY IS BASED ON EXISTING ROADWAY CENTERLINE (WISCONSIN STATUTE 82.31 AND FROM BOBBY JO HEIGHTS PLAT AND MAPS OF SURVEY FILED WITH THE COUNTY SURVEYOR.

REVISION DATE	DATE 3/7/17	SCALE, FEET 0 50 100	HWY: CTH Y	STATE R/W PROJECT NUMBER 9465-00-00	PLAT SHEET 4.04
	GRID FACTOR N/A		COUNTY: ONEIDA	CONSTRUCTION PROJECT NUMBER 9465-00-70	PS&E SHEET 36

FILE NAME : 040104-RP.DWG
LAYOUT NAME - 040104-RP
PLOT DATE : 1/26/2017 3:54 PM
PLOT BY : BRYON MOTSZKO, PE, PLS
PLOT NAME :
PLOT SCALE : 1 IN:100 FT



PT - PT	BEARING	DIST
1 - 2	N 15° 28' 19" W	68.22'
2 - 3	S 89° 55' 19" E	71.71'
4 - 1	N 83° 21' 48" E	819.55'

COORDINATE POINT TABLE

POINT NO.	Y	X
1	211126.5737	179459.1448
2	211192.3172	179440.9472
3	211192.2288	179512.6618

PT 3 - PT 1
L = 84.87'
LCH = 84.70'
CB = N 39° 11' 03" E
R = 390.43'
Δ = 12° 27' 17" LT

PI STA = 143+38.32
Y = 209937.623
X = 179370.865
DELTA = 8°00'14"
D = 3°00'56"
T = 132.93'
L = 265.42'
R = 1900.00'
PC STA = 142+05.39
Y = 209804.737
X = 179374.132
PT STA = 144+70.81
Y = 210069.670
X = 179386.132

PI STA = 146+49.48
Y = 210247.157
X = 179406.654
DELTA = 2°25'46"
D = 8°54'39"
T = 13.63'
L = 27.26'
R = 643.00'
PC STA = 146+35.85
Y = 210233.613
X = 179405.088
PT STA = 146+63.11
Y = 210260.755
X = 179407.644

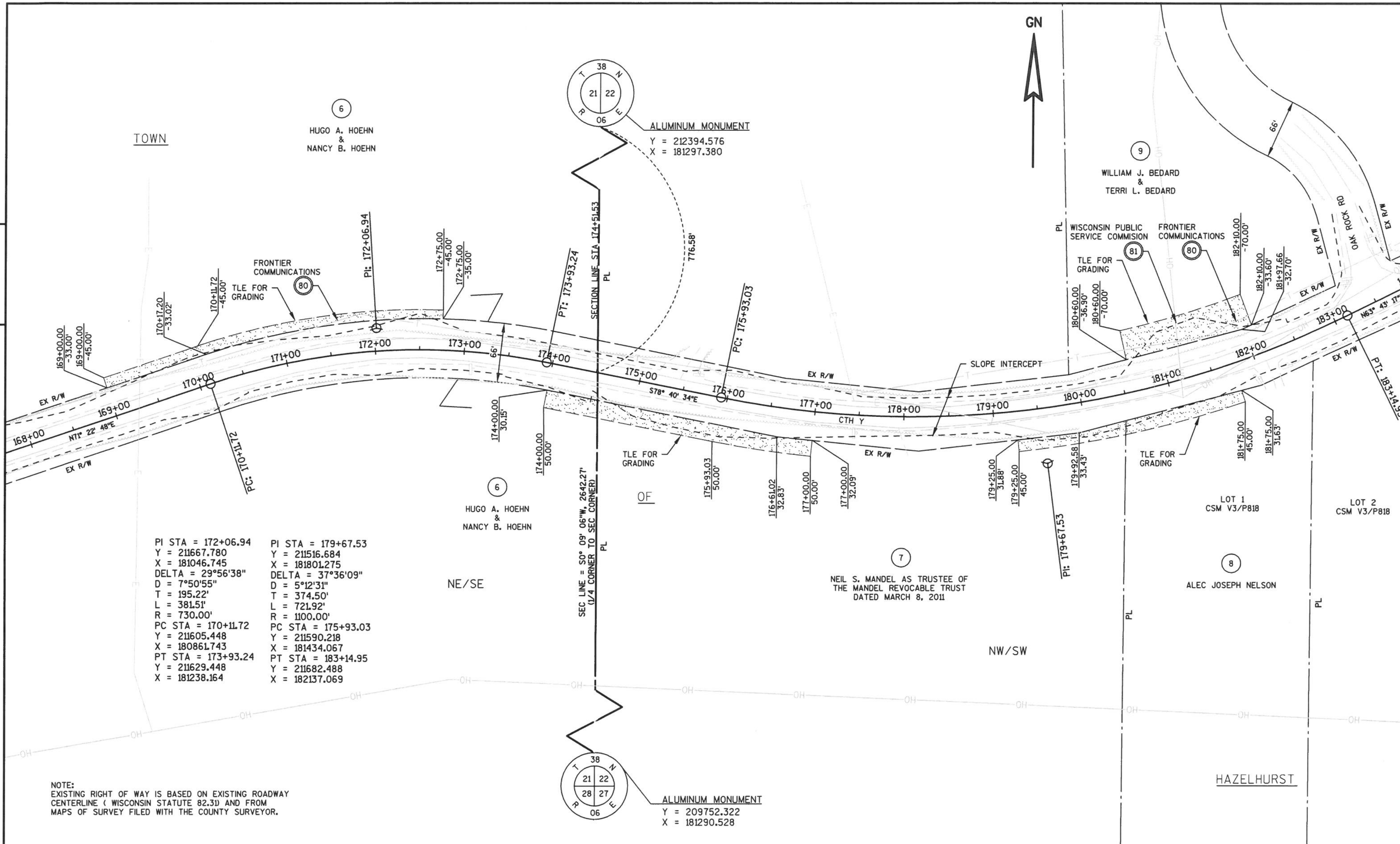
PI STA = 147+51.56
Y = 210348.970
X = 179414.070
DELTA = 4°01'48"
D = 8°54'39"
T = 22.62'
L = 45.23'
R = 643.00'
PC STA = 147+28.94
Y = 210326.407
X = 179412.427
PT STA = 147+74.17
Y = 210371.593
X = 179414.124

PI STA = 156+46.09
Y = 211243.516
X = 179416.193
DELTA = 81°37'43"
D = 13°19'29"
T = 371.35'
L = 612.62'
R = 430.00'
PC STA = 152+74.74
Y = 210872.164
X = 179415.312
PT STA = 158+87.35
Y = 211296.709
X = 179783.718

NOTE:
EXISTING RIGHT OF WAY IS BASED ON EXISTING ROADWAY CENTERLINE (WISCONSIN STATUTE 82.31) AND FROM EAGLE SHORES CONDOMINIUM PLAT, DUGOUT LAKE VISTA ESTATES PLAT AND MAPS OF SURVEY FILED WITH THE COUNTY SURVEYOR.

REVISION DATE	DATE 3/7/17	SCALE, FEET 0 50 100	HWY: CTH Y	STATE R/W PROJECT NUMBER 9465-00-00	PLAT SHEET 4.05
	GRID FACTOR N/A		COUNTY: ONEIDA	CONSTRUCTION PROJECT NUMBER 9465-00-70	PS&E SHEET

FILE NAME : 040104-RP.DWG
LAYOUT NAME - 040105-RP
PLOT DATE : 1/26/2017 5:11 PM
PLOT BY : BRYON MOTSZKO, PE, PLS
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 75



GN
TOWN
OF
HAZELHURST
NE/SE
NW/SW
6
HUGO A. HOEHN & NANCY B. HOEHN
7
NEIL S. MANDEL AS TRUSTEE OF THE MANDEL REVOCABLE TRUST DATED MARCH 8, 2011
8
ALEC JOSEPH NELSON
9
WILLIAM J. BEDARD & TERRI L. BEDARD
LOT 1 CSM V3/P818
LOT 2 CSM V3/P818
FRONTIER COMMUNICATIONS 80
WISCONSIN PUBLIC SERVICE COMMISION 81
TLE FOR GRADING
SLOPE INTERCEPT
EX R/W
CTH Y
OAK ROCK RD
66'
776.58'
N71° 22' 48"E
S78° 40' 34"E
N63° 43' 17"E
PC: 170+11.72
PI: 172+06.94
PT: 173+93.24
PC: 175+93.03
PI: 179+67.53
PT: 183+14.95
SECTION LINE STA 174+51.53
SEC LINE = S0° 09' 06"W, 2642.27' (1/4 CORNER TO SEC CORNER)
PL
ALUMINUM MONUMENT
Y = 212394.576
X = 181297.380
ALUMINUM MONUMENT
Y = 209752.322
X = 181290.528
T 38 N R 06 E
169+00.00 -33.00'
169+00.00 -45.00'
170+17.20 -33.02'
170+11.72 -45.00'
172+75.00 -45.00'
172+75.00 -35.00'
174+00.00 30.15'
174+00.00 50.00'
175+93.03 50.00'
176+61.02 32.83'
177+00.00 50.00'
177+00.00 32.09'
179+25.00 31.88'
179+25.00 45.00'
179+92.58 33.43'
180+60.00 -36.90'
180+60.00 -70.00'
181+75.00 45.00'
181+75.00 31.63'
181+97.66 -32.70'
182+10.00 -33.60'
182+10.00 -70.00'

PI STA = 172+06.94	PI STA = 179+67.53
Y = 211667.780	Y = 211516.684
X = 181046.745	X = 181801.275
DELTA = 29°56'38"	DELTA = 37°36'09"
D = 7°50'55"	D = 5°12'31"
T = 195.22'	T = 374.50'
L = 381.51'	L = 721.92'
R = 730.00'	R = 1100.00'
PC STA = 170+11.72	PC STA = 175+93.03
Y = 211605.448	Y = 211590.218
X = 180861.743	X = 181434.067
PT STA = 173+93.24	PT STA = 183+14.95
Y = 211629.448	Y = 211682.488
X = 181238.164	X = 182137.069

NOTE:
EXISTING RIGHT OF WAY IS BASED ON EXISTING ROADWAY CENTERLINE (WISCONSIN STATUTE 82.31) AND FROM MAPS OF SURVEY FILED WITH THE COUNTY SURVEYOR.

REVISION DATE	DATE 3/7/17	SCALE, FEET 0 50 100	HWY: CTH Y	STATE R/W PROJECT NUMBER 9465-00-00	PLAT SHEET 4.06
	GRID FACTOR N/A		COUNTY: ONEIDA	CONSTRUCTION PROJECT NUMBER 9465-00-70	PS&E SHEET 38

FILE NAME : 040104-RP.DWG
LAYOUT NAME - 040106-RP
PLOT DATE : 1/26/2017 3:54 PM
PLOT BY : BRYON MOTSZKO, PE, PLS
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 75

PI STA = 216+29.06
Y = 212614.841
X = 185218.725
DELTA = 6°45'03"
D = 1°21'51"
T = 247.72'
L = 494.86'
R = 4200.00'
PC STA = 213+81.34
Y = 212644.779
X = 184972.823
PT STA = 218+76.20
Y = 212614.017
X = 185466.442

PI STA = 223+00.38
Y = 212612.606
X = 185890.610
DELTA = 8°44'41"
D = 8°54'39"
T = 49.16'
L = 98.14'
R = 643.00'
PC STA = 222+51.21
Y = 212612.770
X = 185841.446
PT STA = 223+49.35
Y = 212604.970
X = 185939.178

GN

TOWN

SE/NE

SW/NE

4

4

CEPT

PC: 213+81.34

EX R/W

213+00

214+00

S83° 03' 31"E

215+00

216+00

217+00

218+00

219+00

220+00

221+00

222+00

223+00

224+00

CTH Y

S89° 48' 34"E

99'

1/4 LINE

STA 216+66.33

PL

PT: 218+76.20

219+50.00
-34.89'
219+50.00
-45.00'

TLE FOR
GRADING

222+30.00
-37.57'
222+30.00
-45.00'

PC: 222+51.21

PI: 223+00.38

END RELOCATION ORDER
STA 222+51.21
Y = 212618.736
X = 186264.655

EP: 224+50.00

200'

EX R/W

PI: 216+29.06

S0° 57' 43"W
204.29'

218+50.00
31.78'
218+50.00
40.08'

219+05.99
31.53'

10

YAWKEY 4, LLC

OF

TLE FOR
GRADING

221+74.25
28.96'
221+94.84
40.00'

PT: 223+49.35

USH 51

OH

38 N
T
21 22
R 06 E

PL

1/4 LINE = N89° 41' 39"E, 2639.94' (1/4 CORNER TO 1/4 CORNER)

1319.92'

ALUMINUM MONUMENT
Y = 212408.650
X = 183933.249

38 N
T
22 23
R 06 E

ALUMINUM MONUMENT
Y = 212422.746
X = 186573.150

NW/SE

NE/SE

HAZELHURST

NOTE:
EXISTING RIGHT OF WAY IS BASED ON EXISTING ROADWAY CENTERLINE (WISCONSIN STATUTE 82.31) AND FROM RECORDED DESCRIPTIONS AND MAPS OF SURVEY FILED WITH THE COUNTY SURVEYOR.

REVISION DATE	DATE 3/7/17	SCALE, FEET 0 50 100	HWY: CTH Y	STATE R/W PROJECT NUMBER 9465-00-00	PLAT SHEET 4.07
	GRID FACTOR N/A		COUNTY: ONEIDA	CONSTRUCTION PROJECT NUMBER 9465-00-70	PS&E SHEET 39

FILE NAME : 040104-RP.DWG
LAYOUT NAME - 040107-RP

PLOT DATE : 1/26/2017 3:54 PM PLOT BY : BRYON MOTSZKO, PE, PES PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 75

HA 395
HELEN J
WEGNER ETAL

HA 400
BADGER II LIMITED PTNSHP

HA 389-8
ELIZABETH E & STEVEN E JACOBSON

HA 954
CHARLES R &
BARBARA H
SCHNEIDER

HA 400
BADGER II
LIMITED
PTNSHP

BEGIN CONSTRUCTION
STA 18+45.92'GL'
MATCH EXISTING
SAWING ASPHALT REQD

S GARTH LAKE RD

PI: 18+11.99'GL'
PC: 18+49.87'GL'
PT: 19+15.49'GL'
PC: 19+37.39'GL'
PT: 19+96.51'GL'

PC: 109+40.98
PT: 109+75.05
PC: 112+63.51
PT: 113+39.40
PC: 119+61.19
PT: 121+91.50

WETLAND BOUNDARY
EXIST R/W
TLE
ASPH
STA 116+19 (LT)
CONSTRUCT BAD PE
WISCONSIN PUBLIC
SERVICE CORPORATION
FRONTIER
COMMUNICATIONS

STA 122+50
REMOVE 18" CMP
STA 122+50
1-18"x50' CPCPE REQ'D
2-18" STEEL AEW REQ'D

+49, 28' LT
IE = 1586.00

MATCH LINE STA 124+00

N

109+00 110+00 111+00 112+00 113+00 114+00 115+00 116+00 117+00 118+00 119+00 120+00 121+00 122+00 123+00

STA 111+40.63=
STA 20+00.00'GL'
TYPE C MODIFIED
INTERSECTION REQ'D

SLOPE INTERCEPTS

℄ CTH Y

STA 118+08 (RT)
CONSTRUCT BAD PE

STA 123+95 (RT)
CONSTRUCT BAD PE

+51, 21' RT
IE = 1588.72

+55, 25' RT
IE = 1588.72

+83, 21' RT
IE = 1589.12

HA 389-6
TIMOTHY
&
CHRISTA
GAVIN

STA 122+71 (RT)
CONSTRUCT BAD PE
REMOVE 18" CMP
1-12"x28' CPCPE REQ'D
2-12" STEEL AEW REQ'D

BEGIN PROJECT: 9465-00-70
STA 110+50.00
MATCH EXISTING
SAWCUT & BUTT JOINT REQ'D
Y = 206,732.862
X = 178,932.352

PI STA = 113+01.48	PI STA = 120+78.43
Y = 206958.493	Y = 207683.957
X = 179043.400	X = 179321.662
DELTA = 5°13'11"	DELTA = 26°23'26"
D = 6°52'42"	D = 11°27'33"
T = 37.97'	T = 117.23'
L = 75.89'	L = 230.30'
R = 833.00'	R = 500.00'
PC STA = 112+63.51	PC STA = 119+61.19
PT STA = 113+39.40	PT STA = 121+91.50

STA 114+00 TO STA 116+00, LT
STA 121+00 TO STA 123+00, LT
CLEARING & GRUBBING

HA 400
BADGER II LIMITED PTNSHP

HA 389-3
RENEE HOFMANN

HA 389-10
KEVIN J & TODD E LANDRY

HA 389-9
KEVIN J & TODD E LANDRY

HA 389
LANDRY'S
TRIPLE
PINES LLC

5

5

1600 1595 1590 1585 1580 1575 1570 1565

S GARTH LAKE ROAD

EXISTING GROUND

EXISTING ELEVATION

CPCPE 18-INCH @ 5.44%
UP INV. = 1588.72
DOWN INV. = 1586.00

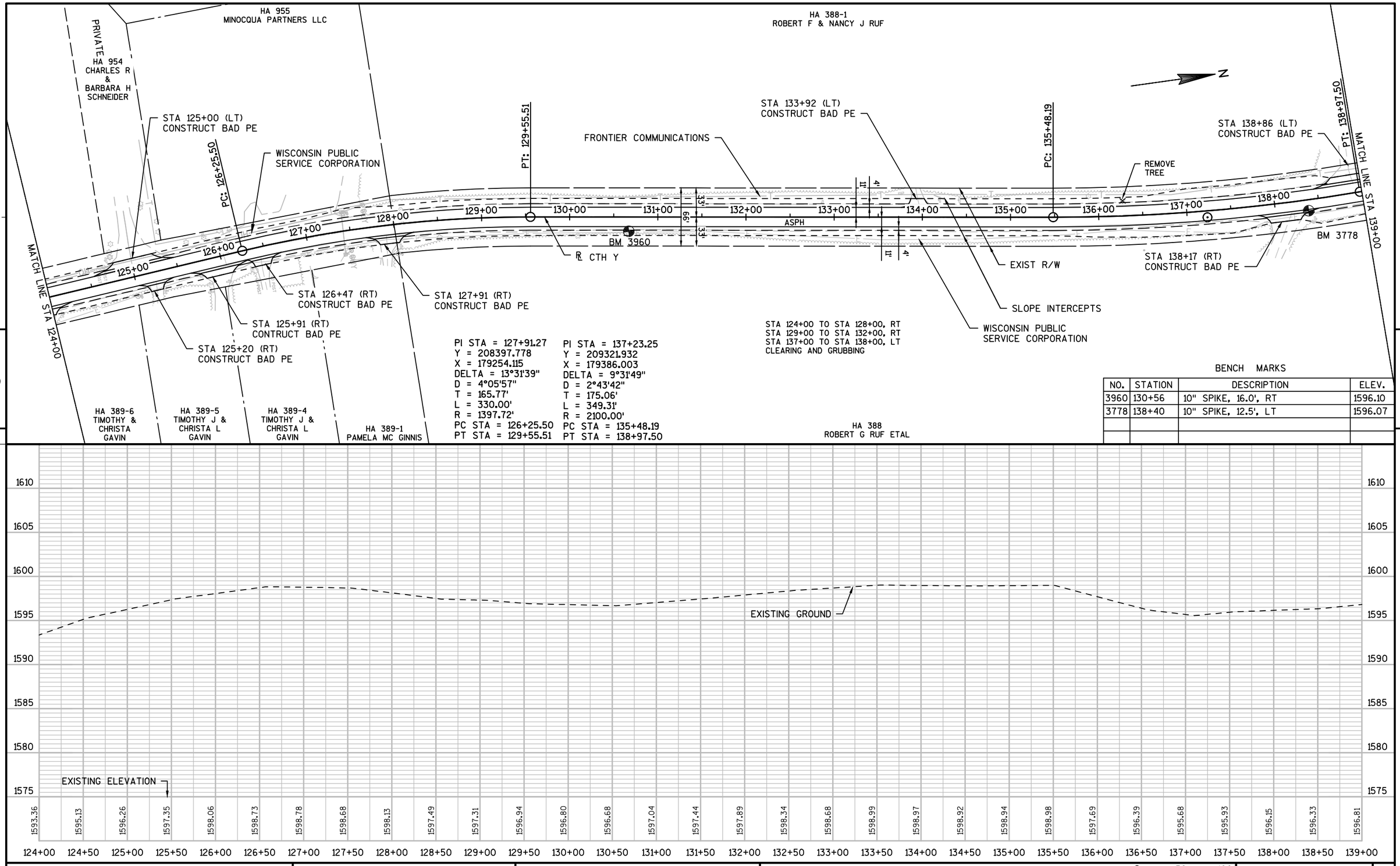
CPCPE 12-INCH @ 1.43%
UP INV. = 1588.72
DOWN INV. = 1589.12

1589.80 1590.19 1590.70 1590.90 1590.22 1588.82 1586.85 1584.24 1581.24 1578.37 1576.88 1575.83 1575.95 1576.53 1578.11 1579.87 1583.01 1586.26 1589.40 1592.46 1594.55 1595.35 1595.52 1595.03 1593.88 1592.38 1591.19 1590.71 1591.18 1591.73 1593.36

109+00 109+50 110+00 110+50 111+00 111+50 112+00 112+50 113+00 113+50 114+00 114+50 115+00 115+50 116+00 116+50 117+00 117+50 118+00 118+50 119+00 119+50 120+00 120+50 121+00 121+50 122+00 122+50 123+00 123+50 124+00

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	PLAN AND PROFILE: CTH Y	SCALE, FEET 0 50 100	SHEET 40	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\050102 PP.DWG
PLOT DATE : 7/5/2017 1:31 PM
PLOT BY : JESSICA LEWIS, PE
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



5

5

PI STA = 127+91.27
Y = 208397.778
X = 179254.115
DELTA = 13°31'39"
D = 4°05'57"
T = 165.77'
L = 330.00'
R = 1397.72'
PC STA = 126+25.50
PT STA = 129+55.51

PI STA = 137+23.25
Y = 209321.932
X = 179386.003
DELTA = 9°31'49"
D = 2°43'42"
T = 175.06'
L = 349.31'
R = 2100.00'
PC STA = 135+48.19
PT STA = 138+97.50

STA 124+00 TO STA 128+00, RT
STA 129+00 TO STA 132+00, RT
STA 137+00 TO STA 138+00, LT
CLEARING AND GRUBBING

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
3960	130+56	10" SPIKE, 16.0', RT	1596.10
3778	138+40	10" SPIKE, 12.5', LT	1596.07

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	PLAN AND PROFILE: CTH Y	SCALE, FEET 0 50 100	SHEET 41	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\050102 PP.DWG
PLOT DATE : 7/5/2017 1:31 PM
PLOT BY : JESSICA LEWIS, PE
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

HA 388-1
ROBERT F & NANCY J RUF

HA 1327
JAMES & JANET SANTARIUS

HA 1328
HA 1329
HOSESLY JT
REV TRUST
CHAD D
HOESLY

HA 291-2
KAREN R WILDENBERG

HA 291-10
JOHN W
STONIS ETAL

N

MATCH LINE STA 139+00

PC: 142+05.39

PT: 144+70.81

PC: 146+35.85

PT: 146+63.11

PC: 147+28.94

PT: 147+74.17

STA 149+22 (LT)
CONSTRUCT BAD PE

STA 152+93 (LT)
CONSTRUCT BAD PE

STA 153+56 (LT)
CONSTRUCT BAD PE

PC: 152+74.74

REMOVE LANDSCAPING (STONE PILLAR)

FRONTIER COMMUNICATIONS

MATCH LINE STA 154+00

66'
33'
33'

140+00 141+00 142+00 143+00 144+00 145+00 146+00 147+00 148+00 149+00 150+00 151+00 152+00 153+00

4%
4%

ASPH

WISCONSIN PUBLIC
SERVICE CORPORATION

WETLAND
BOUNDARY

BM 3624

℄ CTH Y

EXIST R/W

SLOPE INTERCEPTS

HA 292-4
HOSELY JT
REV TRUST

HA 388
ROBERT G RUF ETAL

PI STA = 143+38.32
Y = 209937.623
X = 179370.865
DELTA = 8°00'14"
D = 3°00'56"
T = 132.93'
L = 265.42'
R = 1900.00'
PC STA = 142+05.39
PT STA = 144+70.81

PI STA = 146+49.48
Y = 210247.157
X = 179406.654
DELTA = 2°25'46"
D = 8°54'39"
T = 13.63'
L = 27.26'
R = 643.00'
PC STA = 146+35.85
PT STA = 146+63.11

PI STA = 147+51.56
Y = 210348.970
X = 179414.070
DELTA = 4°01'48"
D = 8°54'39"
T = 22.62'
L = 45.23'
R = 643.00'
PC STA = 147+28.94
PT STA = 147+74.17

STA 139+00 TO STA 147+00, LT & RT
CLEARING AND GRUBBING

HA 292-2
MARK W & JOY E JIROUSEK

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
3624	147+36.80	10" SPIKE 12.8', RT	1600.90

1615 1610 1605 1600 1595 1590 1585 1580

EXISTING GROUND

EXISTING ELEVATION

1596.81 1597.32 1597.20 1597.07 1596.93 1596.63 1595.35 1594.04 1593.13 1592.20 1593.22 1594.26 1596.57 1598.46 1599.34 1600.23 1600.67 1601.10 1600.30 1599.43 1599.25 1599.16 1599.74 1600.35 1600.52 1600.70 1600.95 1601.19 1601.31 1601.50 1601.35

139+00 139+50 140+00 140+50 141+00 141+50 142+00 142+50 143+00 143+50 144+00 144+50 145+00 145+50 146+00 146+50 147+00 147+50 148+00 148+50 149+00 149+50 150+00 150+50 151+00 151+50 152+00 152+50 153+00 153+50 154+00

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	PLAN AND PROFILE: CTH Y	SCALE, FEET 0 50 100	SHEET 42	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\050102 PP.DWG
PLOT DATE : 7/6/2017 10:43 AM
PLOT BY : BOBBY JONES
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

HA 1254
BENJAMIN R
&
KATHLEEN G
ZANGERLE

HA 291-8
KEITH HAROLD &
TRUDY BULLION

HA 291-5
KEITH HAROLD &
TRUDY BULLION

HA 291-1
CIERRA M JACOBI

HA 290
HUGO A & NANCY B HOEHN

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
3258	156+88.30	10" SPIKE, 57.6', LT	1600.09
136	166+24.60	10" SPIKE, 16.5', LT	1601.64	

STA 154+00 TO STA 156+00, LT & RT
STA 160+00 TO STA 168+00, LT & RT
CLEARING & GRUBBING

BEGIN CONSTRUCTION
STA 17+60.26'SB'
MATCH EXISTING
SAWING ASPHALT REQD

℄ SANDY
BEACH LN

SANDY BEACH LN

EASEMENT

TLE

BM 3258

STA 157+61 (LT)
CONSTRUCT BAD PE

STA 157+98 (LT)
CONSTRUCT BAD PE

STA 158+93 (LT)
CONSTRUCT BAD PE

BP: 7+99.73'DL'

8+00'DL'

DUGOUT LAKE RD

PI: 9+02.54'DL'

9+00'DL'

PC: 9+39.87'DL'

PT: 9+61.11'DL'

BEGIN CONSTRUCTION
STA 8+99.36'DL'
MATCH EXISTING
SAWING ASPHALT REQD

℄ DUGOUT
LAKE RD

STA 160+61.71=
STA 10+00.00'DL'
TYPE C MODIFIED INTERSECTION REQ'D

FRONTIER COMMUNICATIONS

BM 136

HA 292
MARK W &
JOY E
JIROUSEK

HA 291-10
JOHN W STONIS
ETAL

HA 291-2
KAREN R
WILDENBERG

HA 291-3
SERGIO & OLGA VELASQUEZ

HA 292-4
HOSELY JT
REV TRUST

HA 290
HUGO A & NANCY B HOEHN

WISCONSIN
PUBLIC
SERVICE
CORPORATION

STA 155+88.05=
STA 19+99.97'SB'
TYPE C MODIFIED INTERSECTION REQ'D

STA 159+18 (RT)
CONSTRUCT BAD PE

STA 160+63 (RT)
CONSTRUCT BAD PE

REMOVE TREE

SLOPE INTERCEPTS

℄ CTH Y

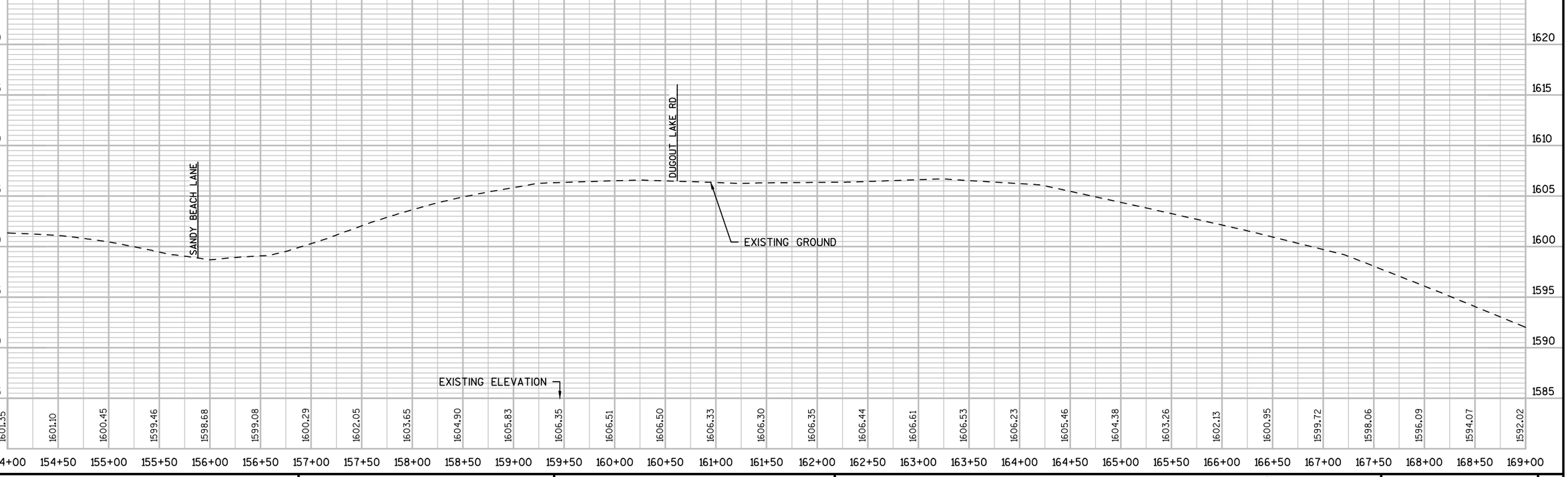
EXIST R/W

MATCH LINE STA 154+00

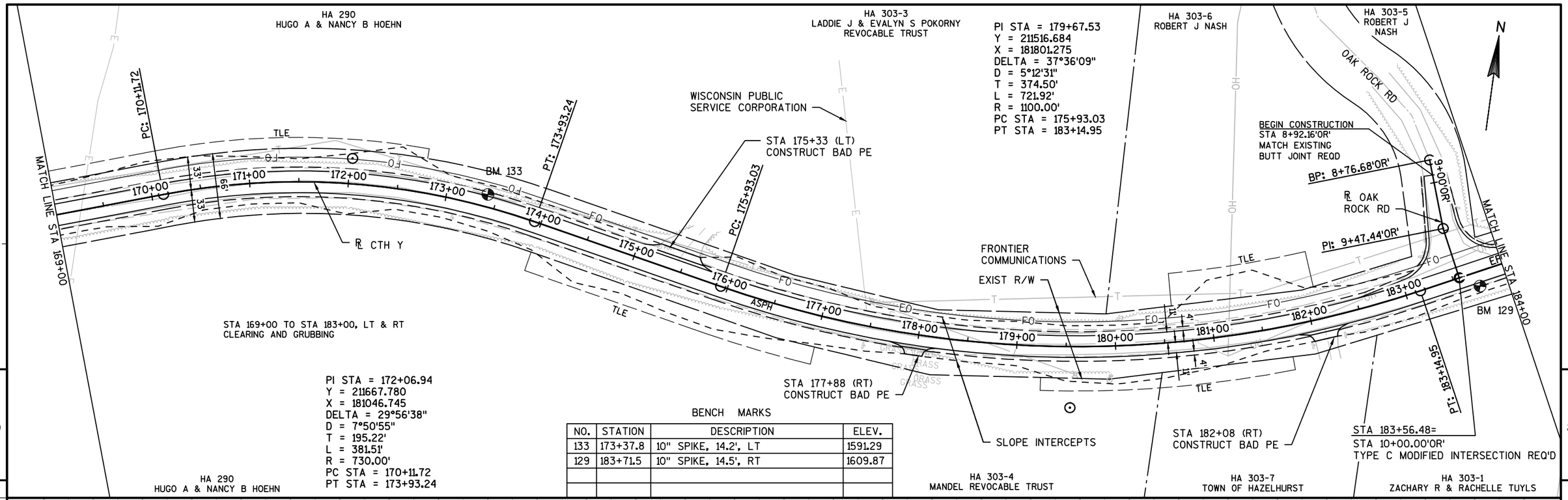
MATCH LINE STA 169+00

N

PI STA = 156+46.09	PI STA = 18+83.51	PI STA = 161+73.75
Y = 211243.516	Y = 211242.829	Y = 211337.732
X = 179416.193	X = 179435.372	X = 180067.159
DELTA = 81°37'43"	DELTA = 49°24'13"	DELTA = 10°23'05"
D = 13°19'29"	D = 47°44'47"	D = 5°43'46"
T = 371.35'	T = 55.20'	T = 90.87'
L = 612.62'	L = 103.47'	L = 181.25'
R = 430.00'	R = 120.00'	R = 1000.00'
PC STA = 152+74.74	PC STA = 18+28.32	PC STA = 160+82.88
PT STA = 158+87.35	PT STA = 19+31.79	PT STA = 162+64.12



PROJECT NO: 9465-00-70 | HWY: CTH Y | COUNTY: ONEIDA | PLAN AND PROFILE: CTH Y | SCALE, FEET 0 50 100 | SHEET 43 | E



BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
133	173+37.8	10" SPIKE, 14.2', LT	1591.29
129	183+71.5	10" SPIKE, 14.5', RT	1609.87

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	PLAN AND PROFILE: CTH Y	SCALE, FEET 0 50 100	SHEET 44	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\050102 PP.DWG PLOT DATE : 7/5/2017 1:32 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

HA 303-5
ROBERT J NASH

HA 303
VICTOR & THERESA BRUSS

HA 302
ROBERT J & HOLLY R NASH

HA 301
YAWKEY LLC

N

MATCH LINE STA 184+00

MATCH LINE STA 199+00

PI: 186+94.02

PI: 192+91.03

WISCONSIN PUBLIC
SERVICE CORPORATION

FRONTIER COMMUNICATIONS

STA 190+14 (LT)
CONSTRUCT BAD PE

BM 126

ASPH

66'

82'

34'

11'

4'

REMOVE TREE

STA 184+74 (RT)
CONSTRUCT BAD PE

STA 187+50 (RT)
CONSTRUCT BAD PE

STA 189+83 (RT)
CONSTRUCT BAD PE

℄ CTH Y

EXIST R/W

SLOPE INTERCEPTS

HA 303-1
ZACHARY R
& RACHELLE
TUYLS

STA 191+00 TO STA 193+00, LT
STA 196+00 TO STA 199+00, RT
CLEARING AND GRUBBING

HA 303-2
ROBERT & LINDA CLEVELAND

HA 302-1
MANDEL REVOCABLE TRUST

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
126	193+39.9	10" SPIKE, 13.3', LT	1617.89

EXISTING GROUND

EXISTING ELEVATION

1635
1630
1625
1620
1615
1610
1605
1600

1610.93 1613.02 1614.71 1615.76 1616.80 1617.37 1617.88 1617.88 1617.89 1618.22 1618.55 1618.85 1619.11 1618.73 1618.33 1617.66 1617.02 1617.17 1617.49 1618.63 1619.79 1620.98 1622.04 1622.79 1623.53 1624.25 1624.93 1625.36 1625.78 1626.18 1626.56

184+00 184+50 185+00 185+50 186+00 186+50 187+00 187+50 188+00 188+50 189+00 189+50 190+00 190+50 191+00 191+50 192+00 192+50 193+00 193+50 194+00 194+50 195+00 195+50 196+00 196+50 197+00 197+50 198+00 198+50 199+00

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	PLAN AND PROFILE: CTH Y	SCALE, FEET 0 50 100	SHEET 45	E

HA 301
YAWKEY LLC

PI STA = 206+82.45
Y = 212731.639
X = 184259.373
DELTA = 33°01'57"
D = 4°46'29"
T = 355.83'
L = 691.83'
R = 1200.00'
PC STA = 203+26.62
PT STA = 210+18.45

HA 296
YAWKEY LLC

N

STA 203+15 (LT)
CONSTRUCT BAD PE

PC: 203+26.62

FRONTIER COMMUNICATIONS

BM 123

℄ CTH Y

PT: 210+18.45

BM 121

SLOPE INTERCEPTS

EXIST R/W

STA 208+90 (RT)
CONSTRUCT BAD PE

PC: 213+81.34

MATCH LINE STA 199+00

MATCH LINE STA 214+00

STA 200+00 TO STA 214+00, LT & RT
CLEARING AND GRUBBING

HA 296
YAWKEY LLC

HA 302-1
MANDEL REVOCABLE TRUST

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
123	202+94.5	10" SPIKE, 15.8', LT	1627.49
121	210+48.3	10" SPIKE, 19.1', RT	1626.24

EXISTING GROUND

EXISTING ELEVATION

1626.56 1626.91 1627.32 1628.11 1628.83 1629.06 1628.82 1628.17 1627.84 1628.13 1628.55 1628.85 1628.96 1628.93 1628.59 1628.42 1628.36 1628.22 1628.18 1628.10 1627.86 1627.42 1626.96 1626.79 1626.63 1626.57 1626.46 1626.15 1625.84 1625.58 1625.25

199+00 199+50 200+00 200+50 201+00 201+50 202+00 202+50 203+00 203+50 204+00 204+50 205+00 205+50 206+00 206+50 207+00 207+50 208+00 208+50 209+00 209+50 210+00 210+50 211+00 211+50 212+00 212+50 213+00 213+50 214+00

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	PLAN AND PROFILE: CTH Y	SCALE, FEET 0 50 100	SHEET 46	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\050102 PP.DWG PLOT DATE : 7/5/2017 1:32 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:100 FT

HA 296
YAWKEY LLC

HA 297
YAWKEY LLC

STA 214+00 TO STA 223+00, LT & RT
CLEARING AND GRUBBING

STA 223+03
REMOVE 24" CMP
STA 223+03
1-24"X58' CPRC REQ'D
2-24" RCAEW REQ'D

CURB OPENING
FOR DRAINAGE

+05, 32' LT
IE = 1601.79

REMOVE CURB & GUTTER

STA 217+75 (LT)
CONSTRUCT BAD PE

CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE D

EXIST R/W

℄ CTH Y

+08.87
-10.75'

+50.00
18.00'

PT: 218+76.20

FRONTIER COMMUNICATIONS

PC: 222+51.21

EP: 224+50.00

MATCH LINE STA 214+00

66'

33'

33'

EO

FO

TLE

11'

4'

3'

215+00

216+00

217+00

218+00

219+00

220+00

221+00

222+00

223+00

224+00

BM 105

BM 100

ASPH

+89.56
18.00'

SLOPE INTERCEPTS

STA 217+73 (RT)
CONSTRUCT BAD PE

CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE D

+08, 25' RT
IE = 1602.00

CAUTION

WISCONSIN PUBLIC
SERVICE CORPORATION

OH

PT: 223+49.35

ASPH

USH 51

PI STA = 216+29.06
Y = 212614.841
X = 185218.725
DELTA = 6°45'03"
D = 1°21'51"
T = 247.72'
L = 494.86'
R = 4200.00'
PC STA = 213+81.34
PT STA = 218+76.20

PI STA = 223+00.38
Y = 212612.606
X = 185890.610
DELTA = 8°44'41"
D = 8°54'39"
T = 49.16'
L = 98.14'
R = 643.00'
PC STA = 222+51.21
PT STA = 223+49.35

N

5

5

HA 296
YAWKEY LLC

HA 297
YAWKEY LLC

STA 222+00
END PULVERIZE AND RELAY
BEGIN RECONSTRUCTION

END PROJECT: 9465-00-70
STA 223+64.03
MATCH EXISTING
SAWCUT REQ'D

1635
1630
1625
1620
1615
1610
1605
1600

VCL = 150.00
K = 29.64

VPC STA 222+07.00
VPC EL 1607.31

VPT STA 223+57.00
VPT EL 1607.28

EXISTING GROUND

PROPOSED
PROFILE ON ℄

-2.55%

2.51%

VPI STA 222+82.00
VPI EL 1605.40
CPRC 24-INCH @ 0.01%
UP INV. = 1602.00
DOWN INV. = 1601.79

EXISTING ELEVATION
PROPOSED ELEVATION

PROPOSED ELEVATION
EXISTING ELEVATION

1625.25 1624.65 1624.12 1623.57 1622.86 1622.00 1621.03 1620.00 1618.68 1617.35 1615.88 1614.19 1612.43 1610.77 1609.56 1608.57 1607.25 1607.49 1606.37 1606.53 1606.10 1606.43 1607.20 1607.18

214+00 214+50 215+00 215+50 216+00 216+50 217+00 217+50 218+00 218+50 219+00 219+50 220+00 220+50 221+00 221+50 222+00 222+50 223+00 223+50 224+00 224+50 225+00 225+50 226+00 226+50 227+00 227+50 228+00 228+50 229+00

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	PLAN AND PROFILE: CTH Y	SCALE, FEET 0 50 100	SHEET 47	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\050102 PP.DWG
PLOT DATE : 7/5/2017 1:32 PM
PLOT BY : JESSICA LEWIS, PE
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

PI STA = 19+67.31'GL'
Y = 206817.793
X = 178939.148
DELTA = 21°59'46"
D = 37°12'18"
T = 29.93'
L = 59.12'
R = 154.00'
PC STA = 19+37.39'GL'
PT STA = 19+96.51'GL'

HA 400
BADGER II
LIMITED PTNSHP

℄ SOUTH GARTH
LAKE RD

BP: 16+72.71'GL'
17'GL'
18'GL'
PI: 18+11.99'GL'
PC: 18+40.49'GL'
PT: 19+15.49'GL'
PC: 19+37.39'GL'
PT: 19+96.51'GL'
19'GL'
GRAV
ASPH
S. GARTH LAKE RD

HA 395
HELEN J
WEGNER
ETAL

HA 400
BADGER II
LIMITED PTNSHP

HA 400
BADGER II
LIMITED PTNSHP

STA 111+40.63=
STA 20+00.00'GL'
TYPE C MODIFIED
INTERSECTION REQ'D

BEGIN CONSTRUCTION
STA 18+45.92'GL'
MATCH EXISTING

STA 19+00 TO STA 20+00, LT & RT
CLEARING AND GRUBBING

PI STA = 18+83.51'SB'
Y = 211242.829
X = 179435.372
DELTA = 49°24'13"
D = 47°44'47"
T = 55.20'
L = 103.47'
R = 120.00'
PC STA = 18+28.32'SB'
PT STA = 19+31.79'SB'

HA 291-8
KEITH HAROLD &
TRUDY BULLION

STA 155+88.05=
STA 20+00.00'SB'
TYPE C MODIFIED
INTERSECTION REQ'D

OBLITERATE OLD
ROAD

HA 1254
BENJAMIN R
&
KATHLEEN G
ZANGERLE

HA 291-3
SERGIO & OLGA
VELASQUEZ

WISCONSIN
PUBLIC
SERVICE
CORPORATION

BM 3258

PC: 18+28.32
Mid: 18+80.05
PT: 19+31.79
19'SB'
ASPH

℄ SANDY
BEACH LN

18'SB'
17'SB'
SANDY BEACH LN

HA 292
MARK W &
JOY E
JIROUSEK

HA 292-4
HOSELY
JT
REV
TRUST

STA 18+00 TO STA 20+00, RT
CLEARING AND GRUBBING

BEGIN CONSTRUCTION
STA 17+60.26'SB'
MATCH EXISTING
SAWING ASPHALT REQD

HA 291-10
JOHN W STONIS
ETAL

HA 291-2
KAREN R
WILDENBERG

STA 9+00 TO STA 10+00, LT & RT
CLEARING AND GRUBBING

PI STA = 10+49.52'DL'
Y = 211371.091
X = 179952.934
DELTA = 4°03'27"
D = 19°05'55"
T = 10.63'
L = 21.24'
R = 300.00'
PC STA = 10+38.89'DL'
PT STA = 10+60.14'DL'

BP: 7+99.73'DL'
PI: 9+02.54'DL'
PC: 9+39.87'DL'
PT: 9+61.11'DL'
8'DL'
9'DL'
GRAV
ASPH

HA 291-1
CIERRA M
JACOBI

℄ DUGOUT
LAKE RD

STA 160+61.71=
STA 10+00.00'DL'
TYPE C MODIFIED
INTERSECTION REQ'D

BEGIN CONSTRUCTION
STA 8+83.09'DL'
MATCH EXISTING

HA 291-5
KEITH HAROLD
&
TRUDY BULLION

HA 291-3
SERGIO & OLGA
VELASQUEZ

VCL = 90.00
K = 32.63
VPC STA 18+81.17
VPC EL 1587.84
VPT STA 19+71.17
VPT EL 1589.00
STA 19+88.20
EL 1589.46
0.09%
2.67%
STA 18+46.00
EL 1587.87
VPI STA 19+26.17
VPI EL 1587.80
℄ CTH Y
PROPOSED PROFILE ON ℄
EXISTING GROUND
EXISTING ELEVATION
PROPOSED ELEVATION
1588.85 1588.42 1588.23 1587.83 1587.87 1587.83 1587.88 1587.89 1588.50 1589.12
17+00 17+50 18+00 18+50 19+00 19+50 20+00 20+50 21+00 21+50

VCL = 90.00
K = 72.14
STA 17+60.00
EL 1599.16
VPC STA 17+77.00
VPC EL 1599.14
VPT STA 18+67.00
VPT EL 1599.62
VPI STA 19+26.00
VPI EL 1600.30
STA 19+89.00
EL 1600.18
-0.09%
1.15%
-0.19%
VPI STA 18+22.00
VPI EL 1599.10
VPC STA 18+81.00
VPC EL 1599.78
VPT STA 19+71.00
VPT EL 1600.22
VCL = 90.00
K = 67.06
PROPOSED PROFILE ON ℄
EXISTING GROUND
℄ CTH Y
EXISTING ELEVATION
PROPOSED ELEVATION
1598.96 1599.19 1598.87 1599.16 1598.77 1599.44 1597.76 1599.97 1598.32 1600.22 1598.87
16+00 16+50 17+00 17+50 18+00 18+50 19+00 19+50 20+00 20+50

VCL = 90.00
K = 31.54
STA 8+83.00
EL 1606.56
VPC STA 8+95.00
VPC EL 1606.43
VPT STA 9+85.00
VPT EL 1606.73
-1.09%
1.71%
VPI STA 9+40.00
VPI EL 1605.94
STA 9+89.03
EL 1606.80
℄ CTH Y
PROPOSED PROFILE ON ℄
EXISTING GROUND
EXISTING ELEVATION
PROPOSED ELEVATION
1607.53 1606.92 1606.37 1606.38 1605.93 1606.31 1606.46
7+00 7+50 8+00 8+50 9+00 9+50 10+00 10+50 11+00 11+50

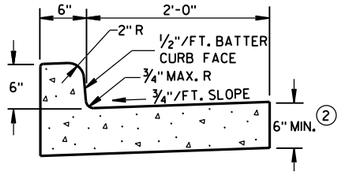
PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	PLAN AND PROFILE: CTH Y	SCALE, FEET 0 50 100	SHEET 48	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\050103 PP.DWG
PLOT DATE : 7/7/2017 6:39 AM
PLOT BY : JESSICA LEWIS, PE
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

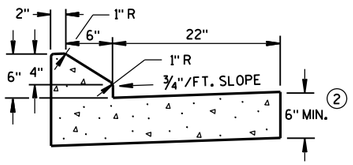
Standard Detail Drawing List

08D01-19	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-03	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C12-05	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-04A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C33-02	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-01A	PAVEMENT MARKING (INTERSECTIONS)
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D38-01A	TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS
15D38-01B	ATTACHMENT OF SIGNS TO POSTS

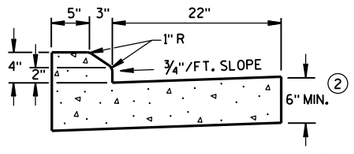
6



TYPES A & D ①

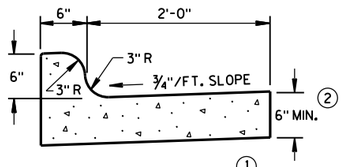


6" SLOPED CURB TYPES G & J ①

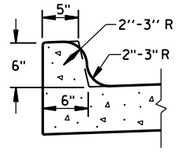


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

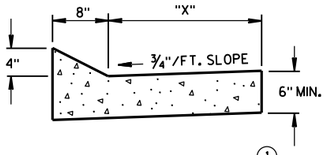


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

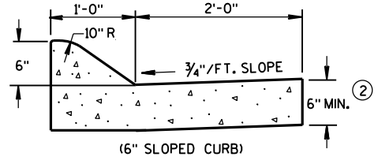
CONCRETE CURB & GUTTER 30"



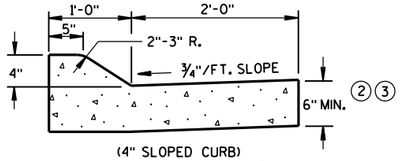
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

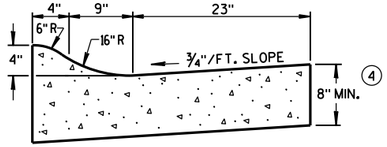


(6" SLOPED CURB)



(4" SLOPED CURB)

TYPES A & D ①



4" SLOPED CURB TYPES R & T ①⑤

CONCRETE CURB & GUTTER 36"

GENERAL NOTES

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

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

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

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

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

① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

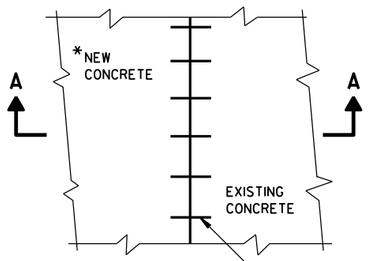
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

③ USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

④ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

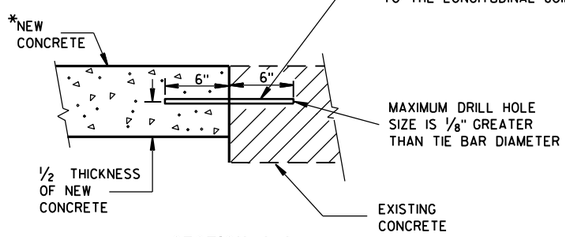
⑤ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

⑥ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



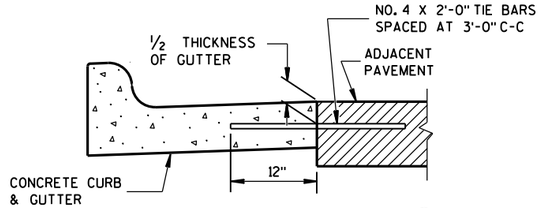
PLAN VIEW

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

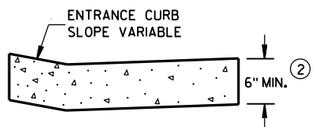


SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT

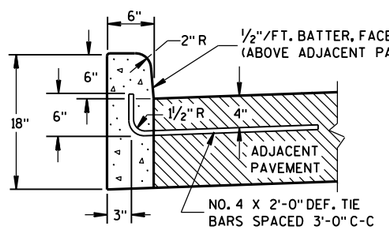


TYPICAL TIE BAR LOCATION ①

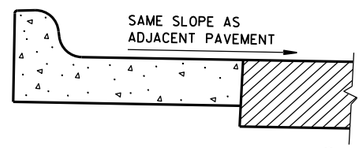


DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)

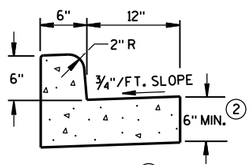


① TYPES A & D



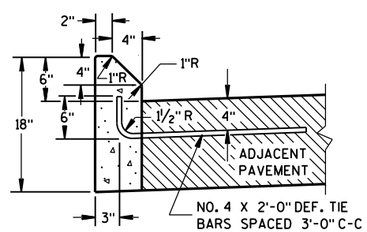
⑥ REVERSE SLOPE GUTTER

(TYPICAL FOR ALL CURB & GUTTER TYPES)



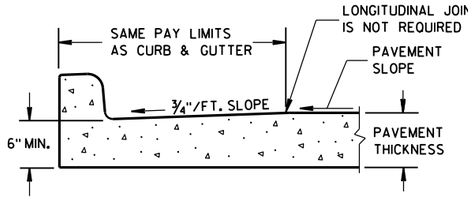
① TYPES A & D

CONCRETE CURB & GUTTER 18"

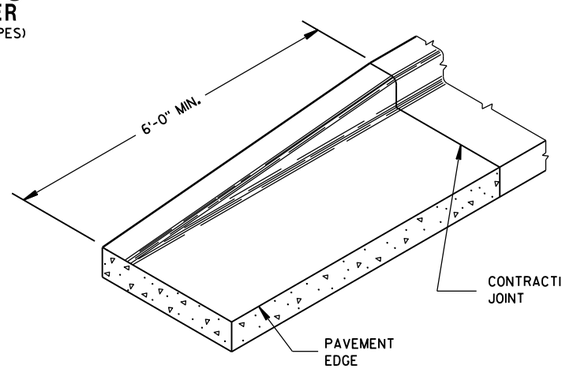


① TYPES G & J

CONCRETE CURB



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June, 2016 — DATE

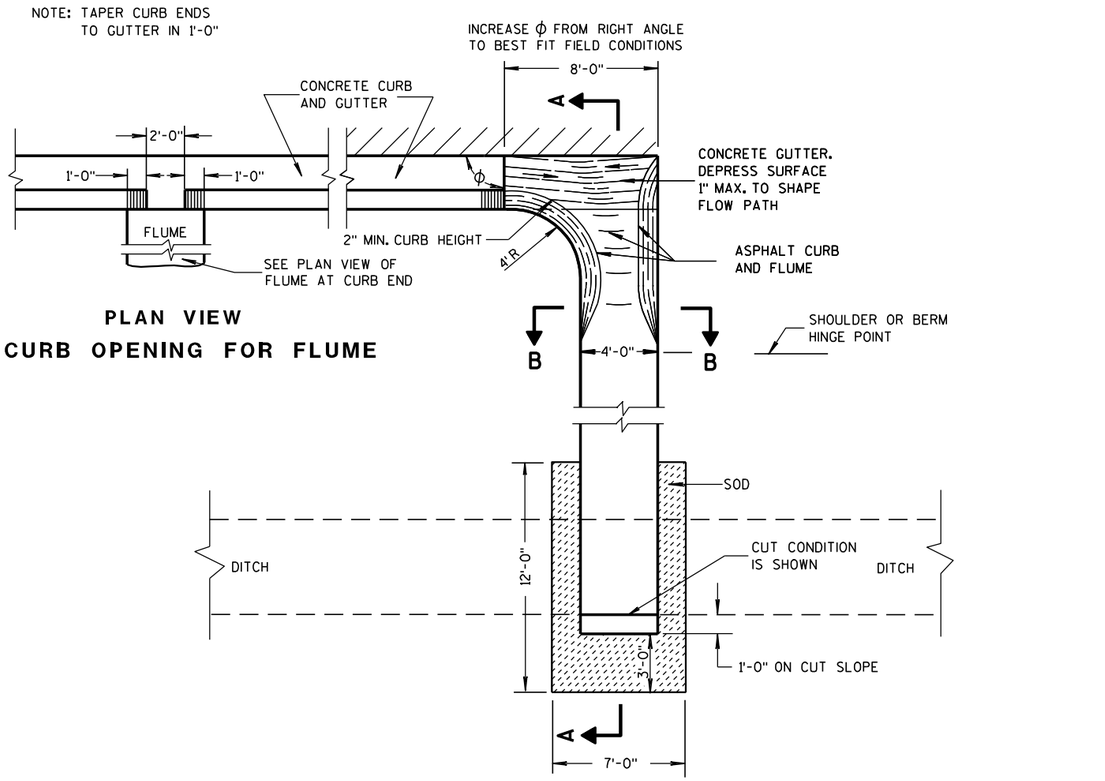
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

6

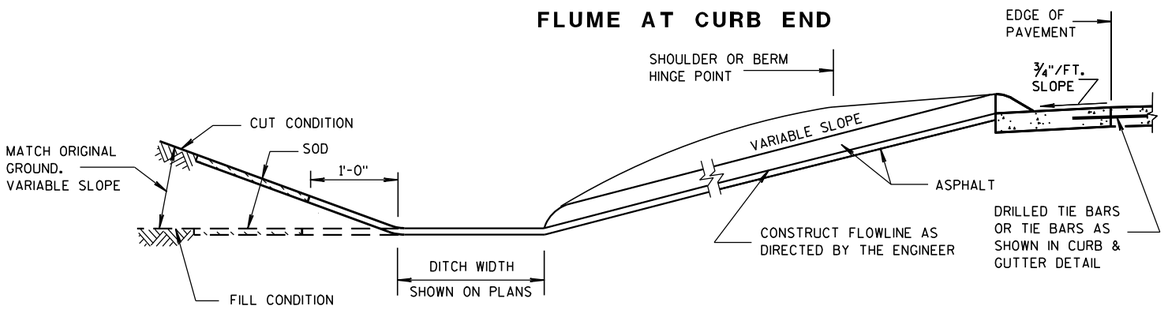
S.D.D. 8 D 1-19

ASPHALTIC FLUME

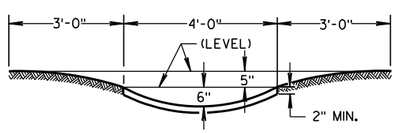


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

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

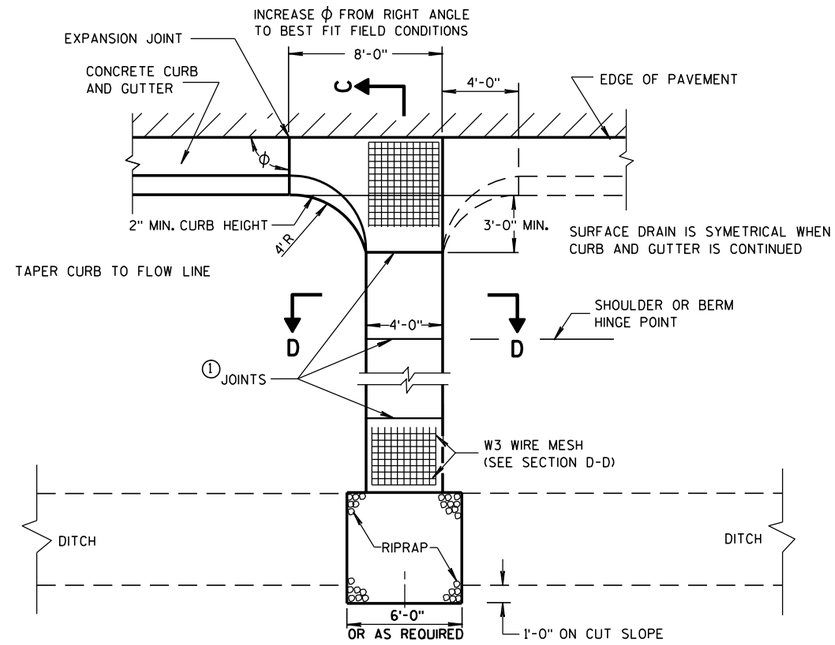
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

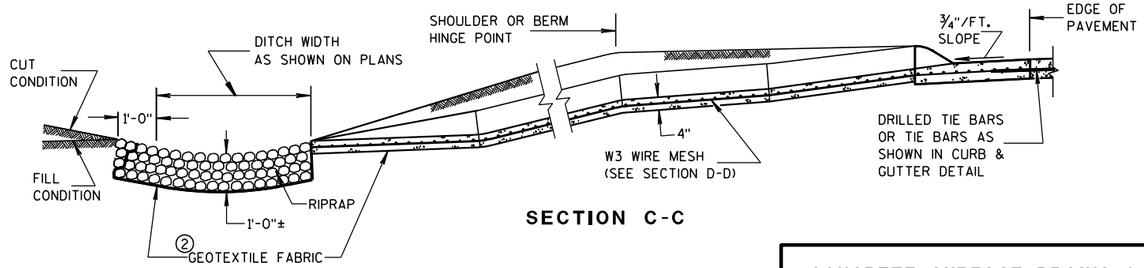
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

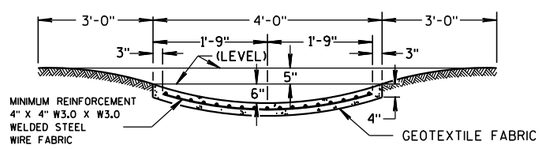
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

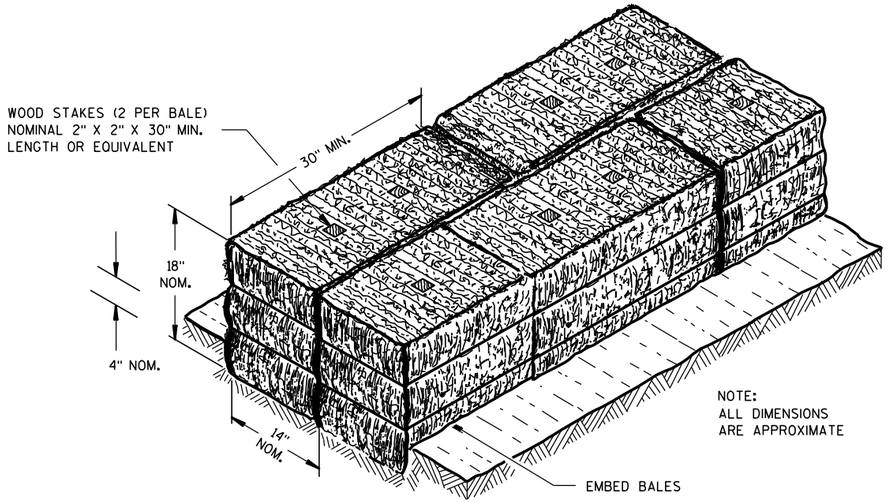
APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
MENT
FHWA

6

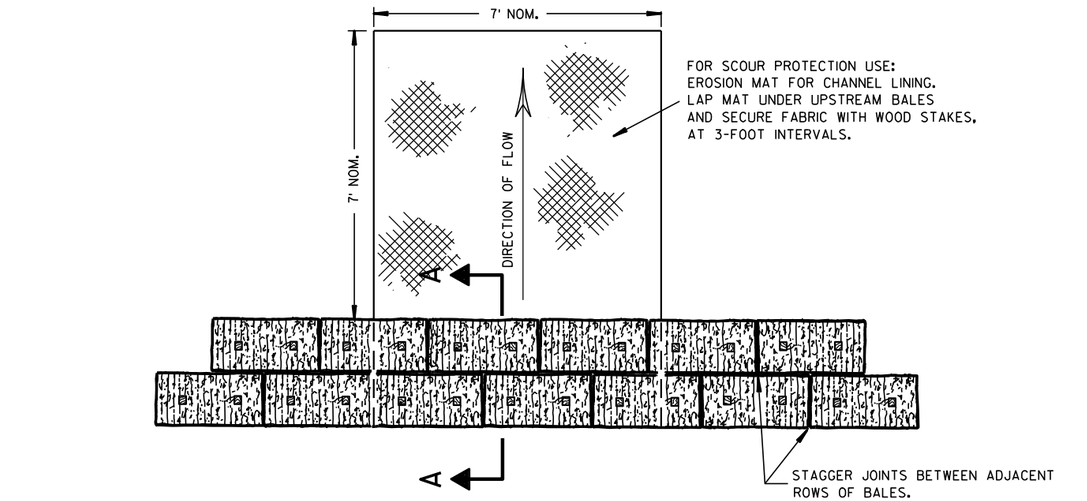
S.D.D. 8 D 4-5

6

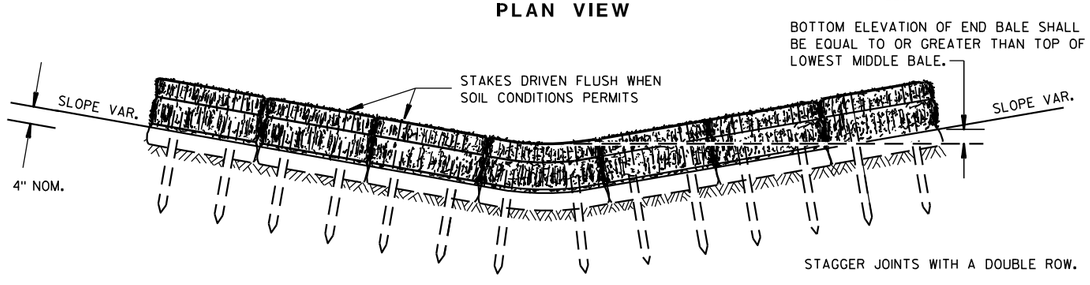
S.D.D. 8 D 4-5



SECTION A-A



PLAN VIEW



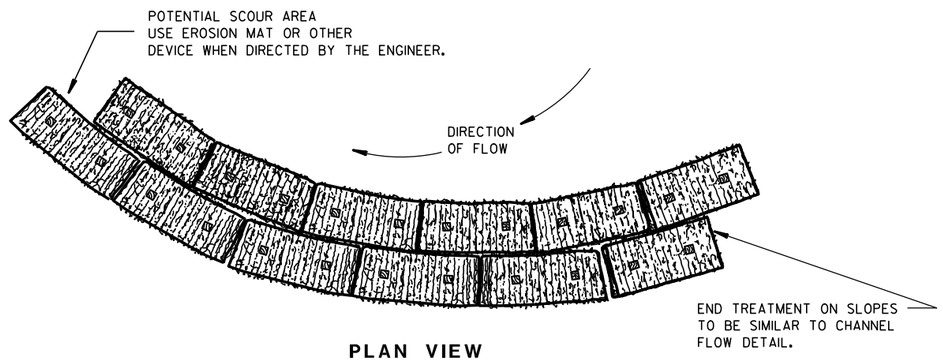
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

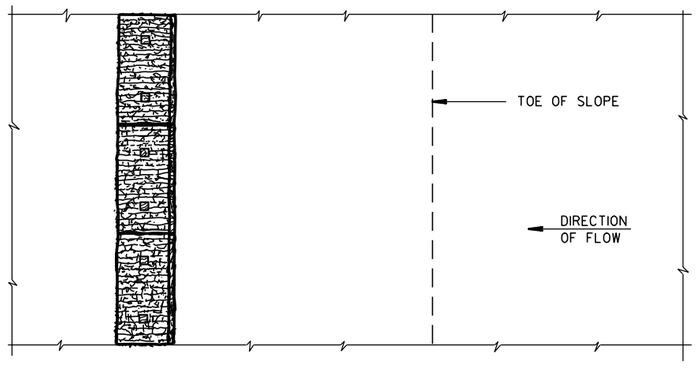
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

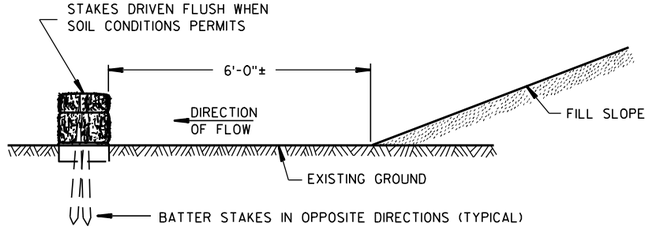


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

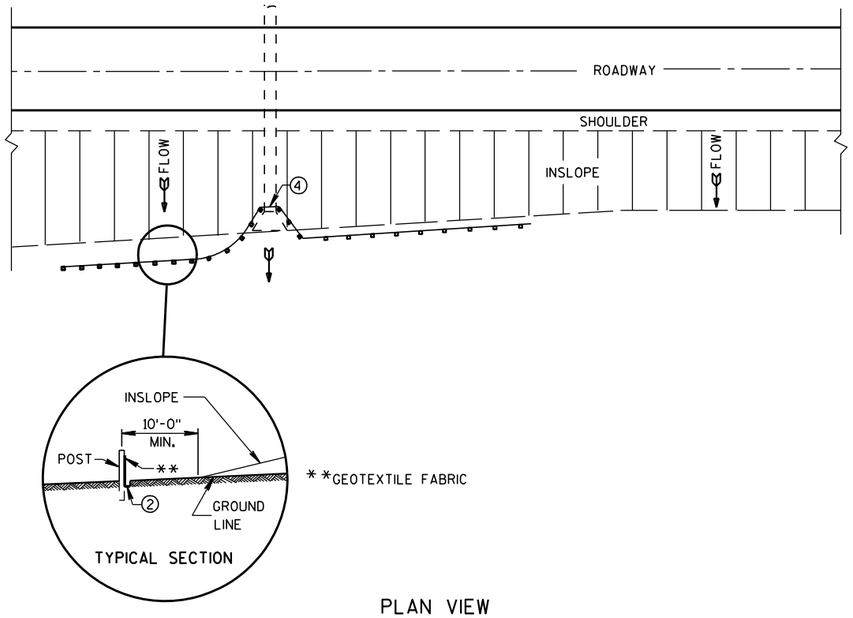
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 — DATE

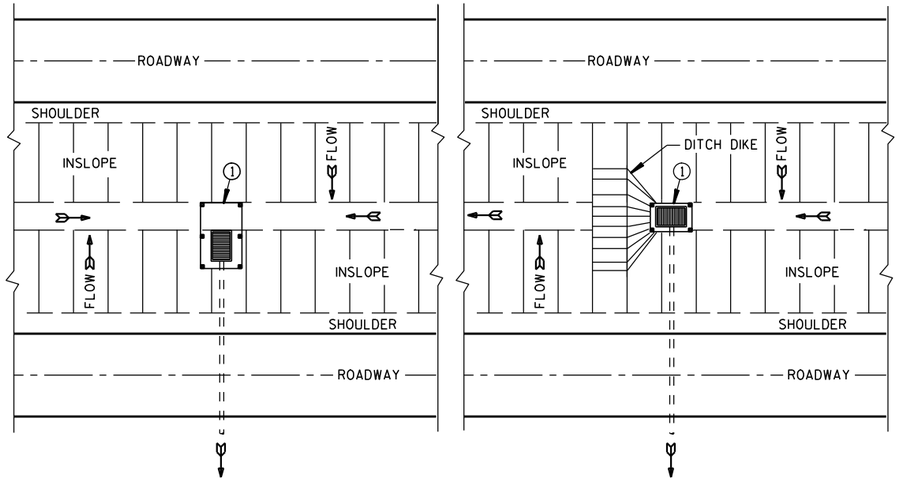
/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA



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.

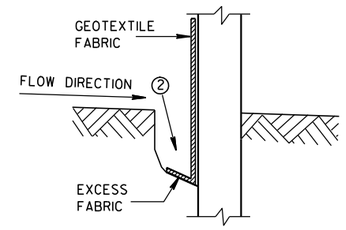
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

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.

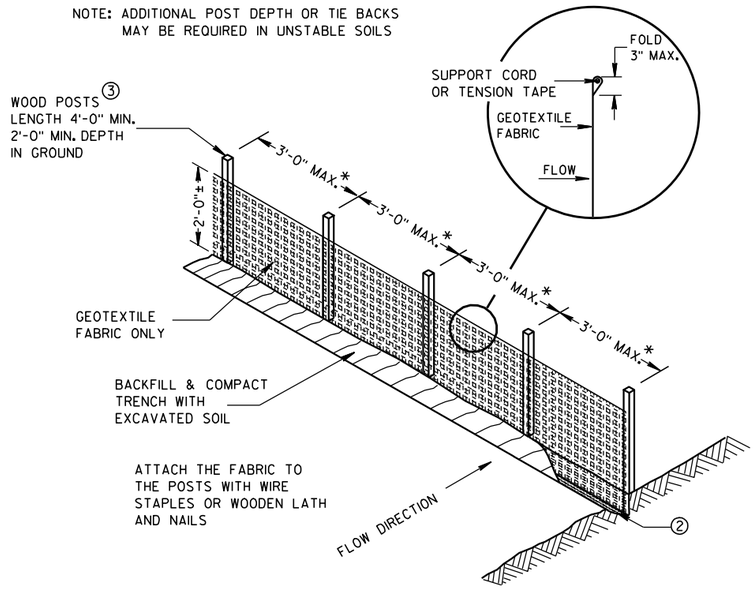
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.

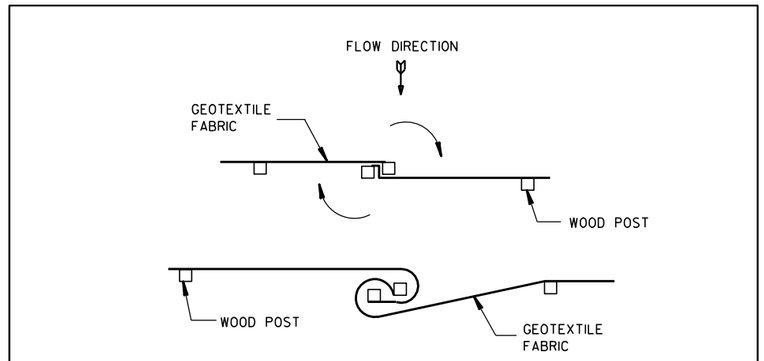
⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



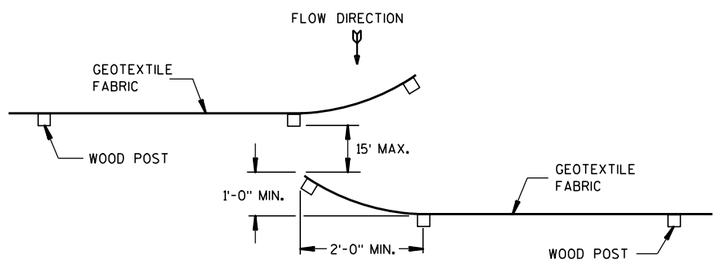
TRENCH DETAIL



SILT FENCE

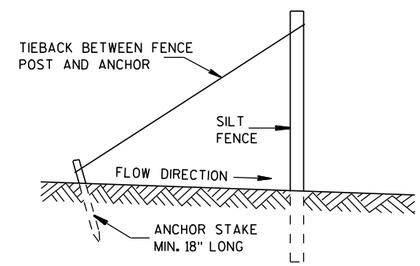


TWIST METHOD



HOOK METHOD

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

6

S.D.D. 8 E 9-6

METAL APRON ENDWALLS

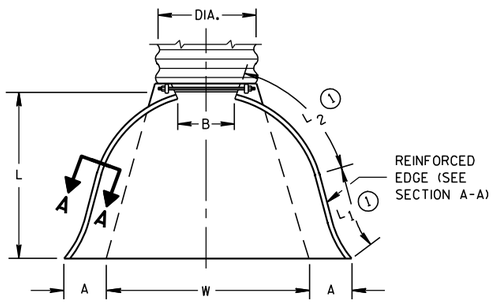
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4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

× EXCEPT CENTER PANEL SEE GENERAL NOTES

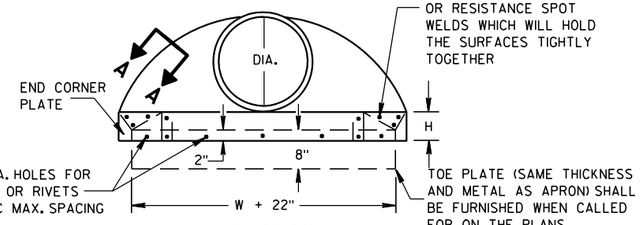
REINFORCED CONCRETE APRON ENDWALLS

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

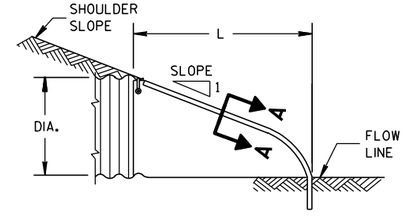
* MINIMUM
** MAXIMUM



PLAN VIEW

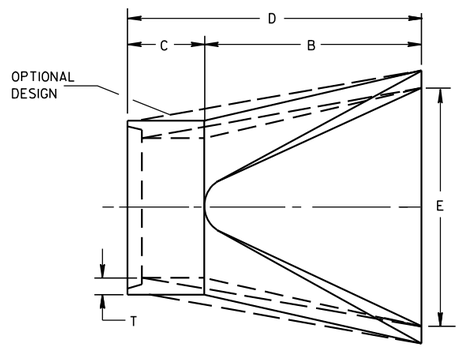


END VIEW

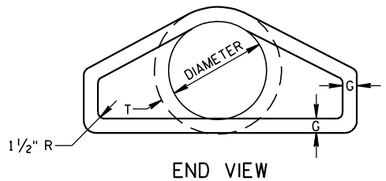


SIDE ELEVATION

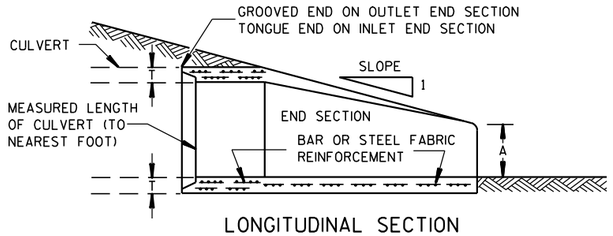
METAL ENDWALLS



PLAN

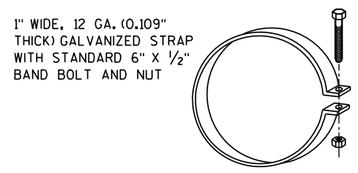


END VIEW



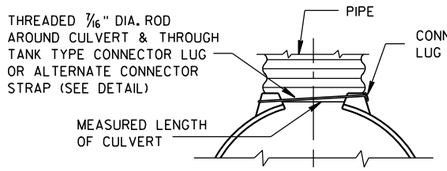
LONGITUDINAL SECTION

CONCRETE ENDWALLS

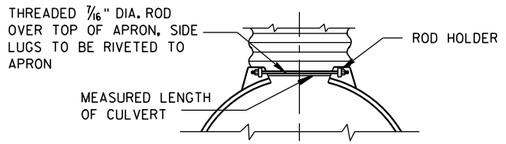


ALTERNATE FOR TYPE 1 CONNECTION

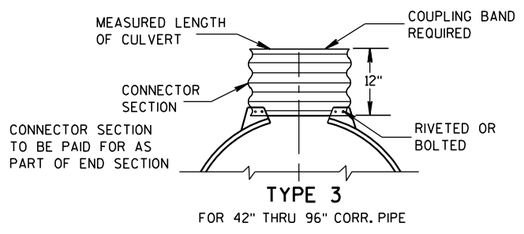
END SECTION CONNECTOR STRAP



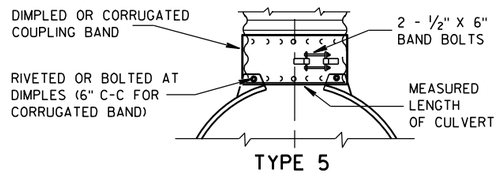
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

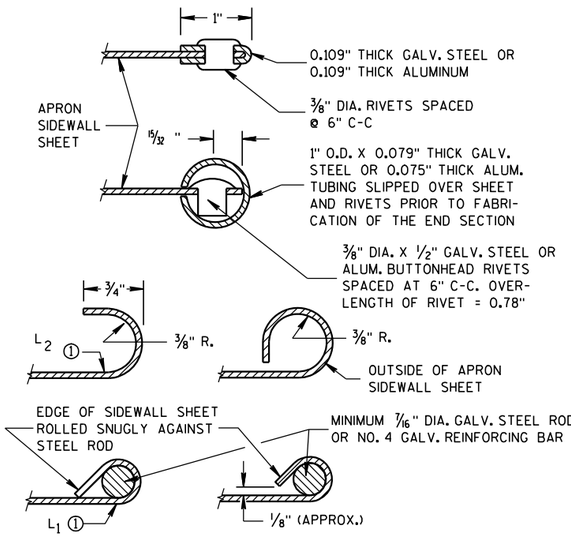
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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

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

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

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

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

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

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

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

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

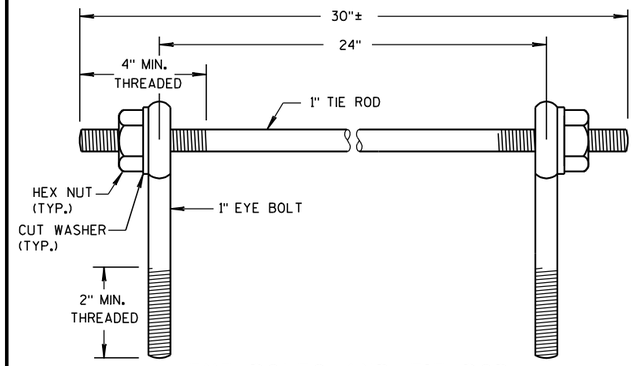
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

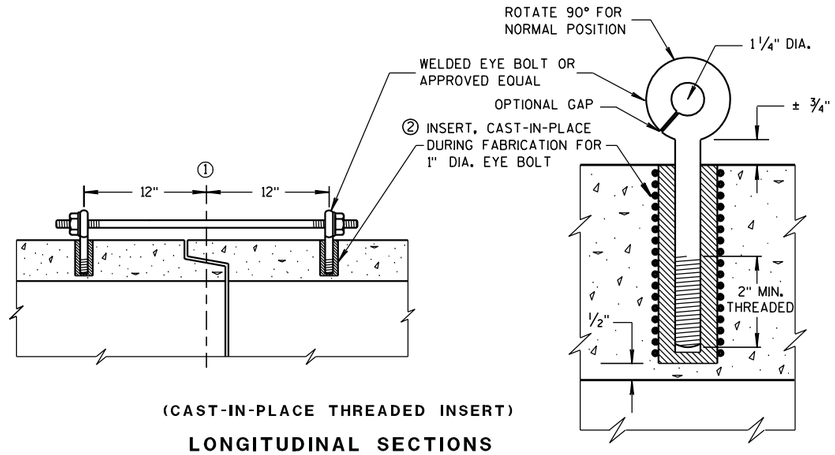
APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 F 1-11



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.

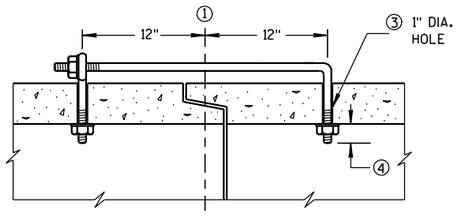
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

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

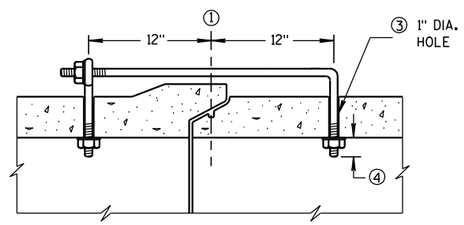
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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)

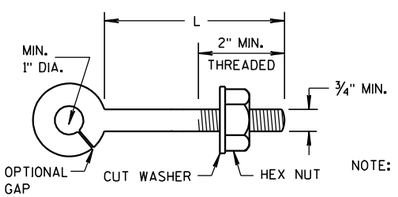


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

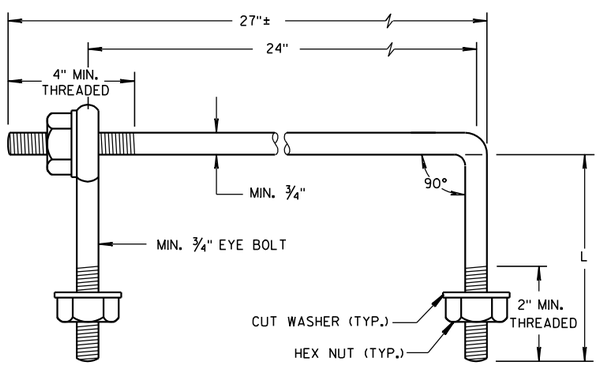
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



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

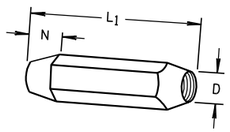
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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



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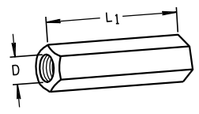
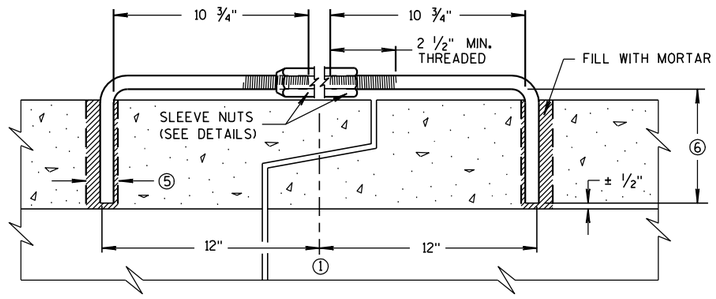


PLAIN

RIGHT AND LEFT THREADS

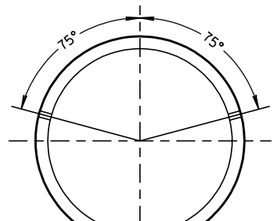
SLEEVE NUTS



LONGITUDINAL SECTION

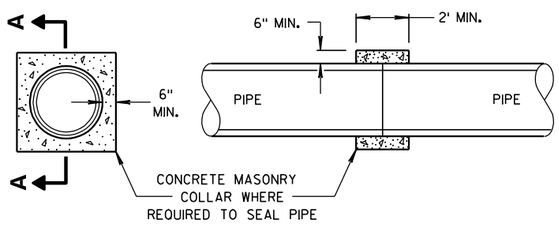
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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

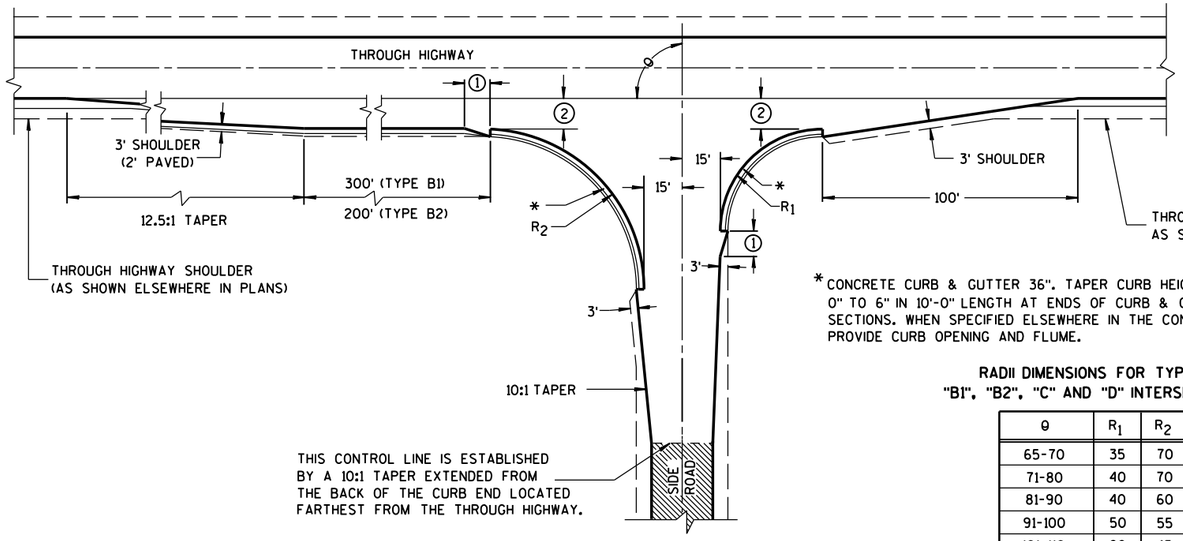
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
55
FHWA

6

S.D.D. 8 F 4-7

6

S.D.D. 8 F 4-7

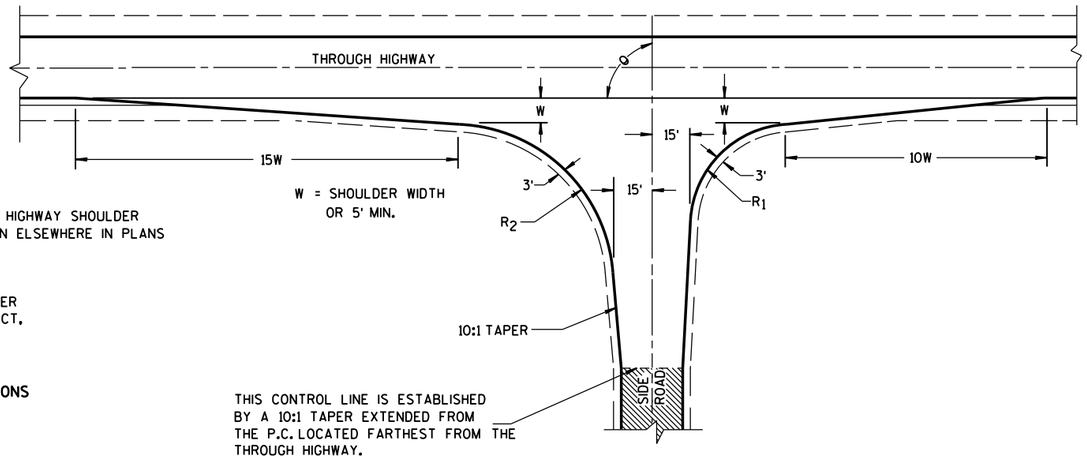


TYPE "B1" AND "B2"

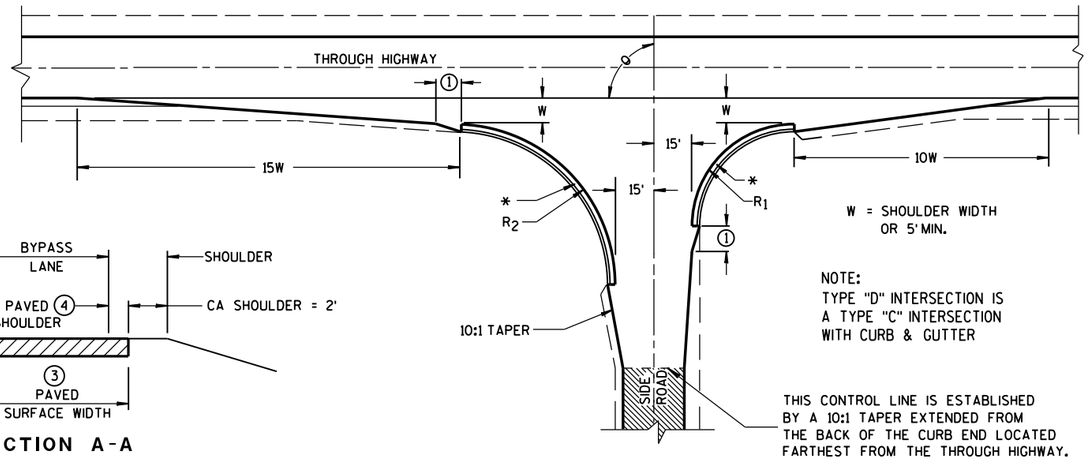
*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

RADII DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

θ	R_1	R_2
65-70	35	70
71-80	40	70
81-90	40	60
91-100	50	55
101-110	60	45



TYPE "C"



TYPE "D"

GENERAL NOTES

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

SIDE ROAD SURFACING NOTE

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

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

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

EXISTING PAVED SURFACE

BYPASS LANE

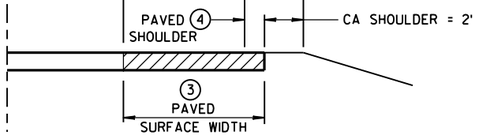
(1) 10-FT TYPICAL.

(2) 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

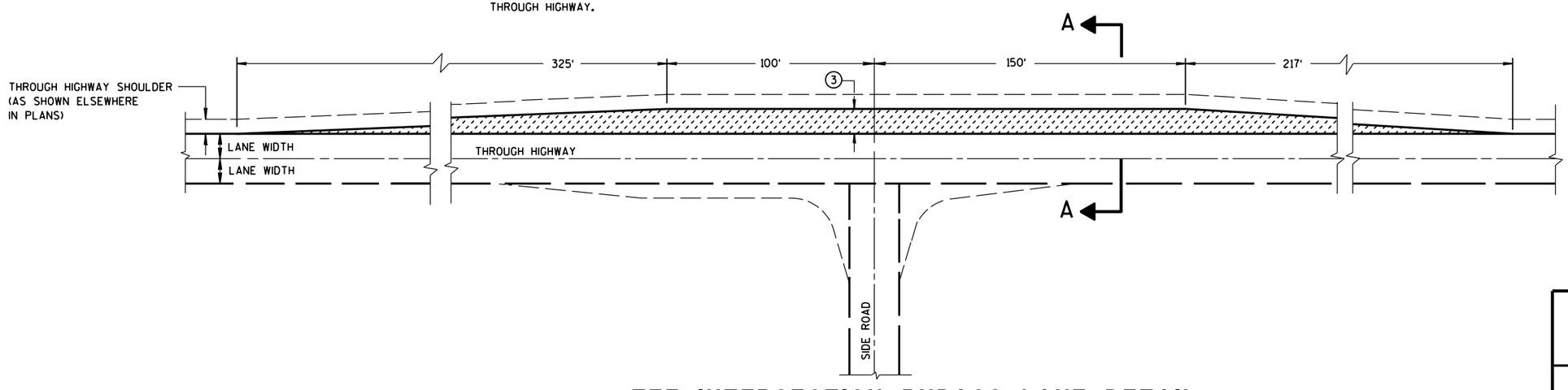
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(3) BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 13-FT PLUS PAVED SHOULDER WIDTH.

(4) BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)



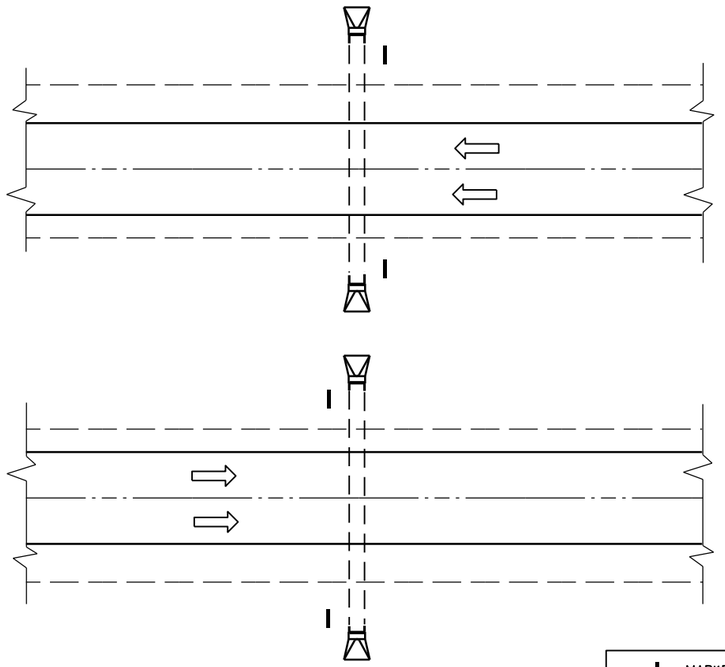
TEE INTERSECTION BYPASS LANE DETAIL

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

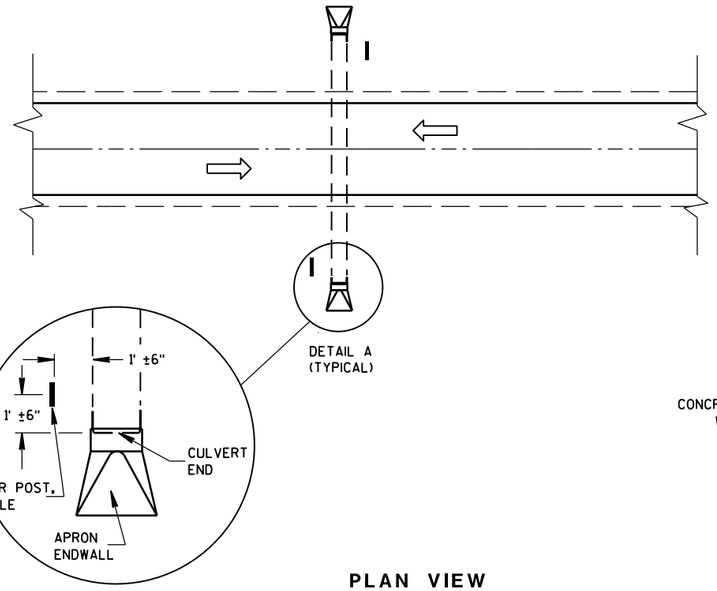
6

S.D.D. 9 A 1-13a



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

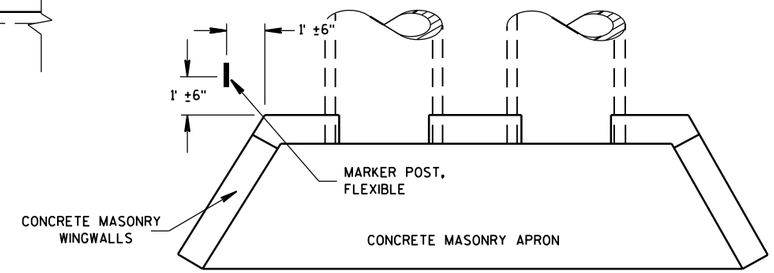
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

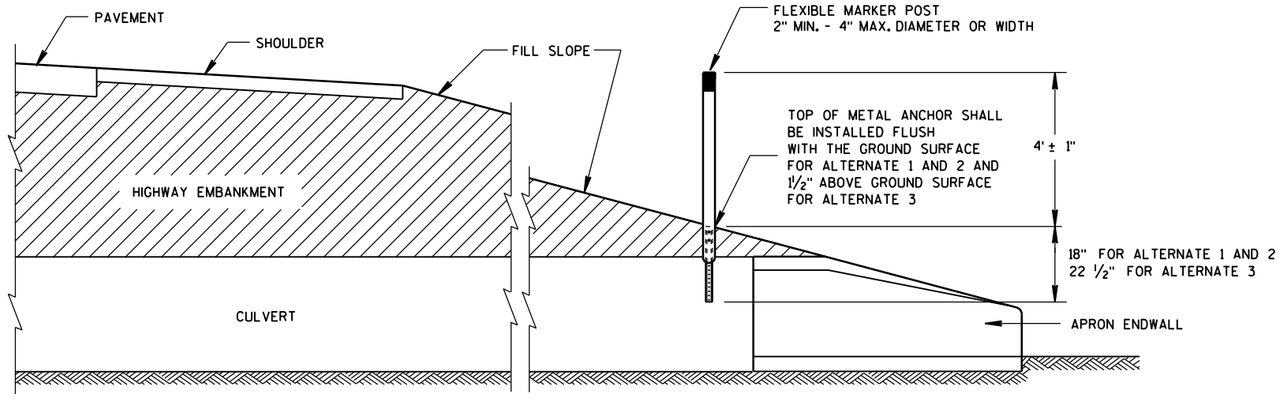
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

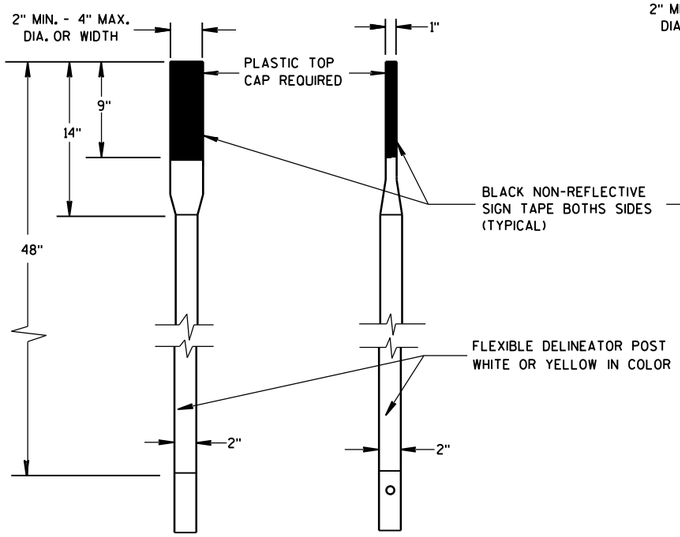
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

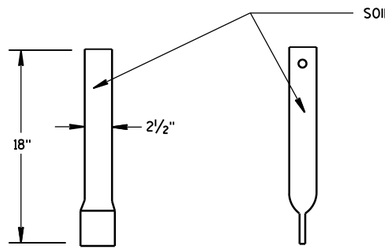
6

S.D.D. 15 A 3-2a

6

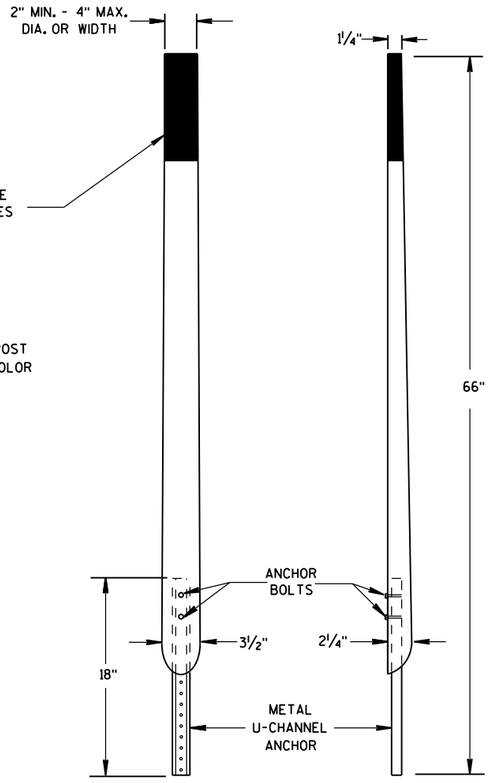
S.D.D. 15 A 3-2a





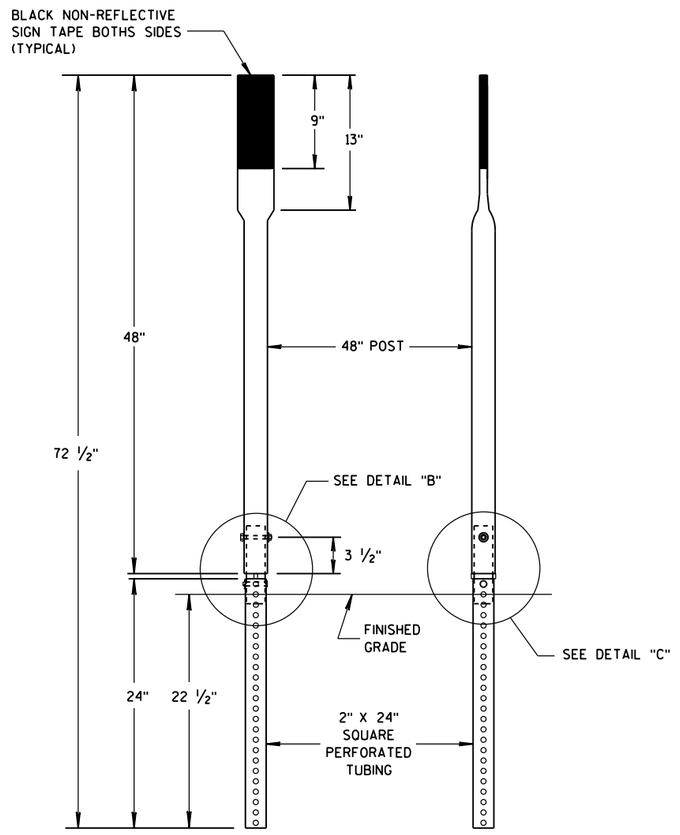
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

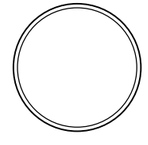
ALTERNATE 2



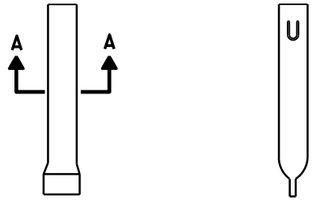
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POSTS

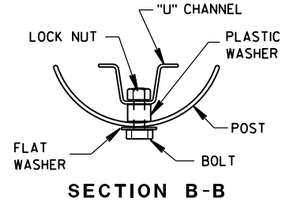


SECTION A-A

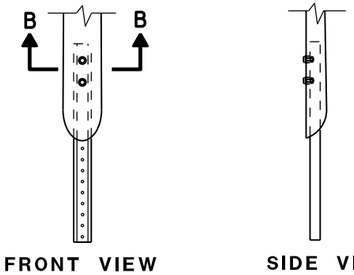


FRONT VIEW SIDE VIEW

ALTERNATE 1

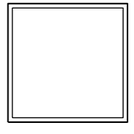


SECTION B-B

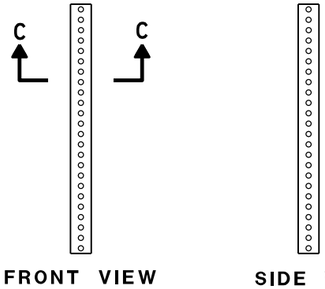


FRONT VIEW SIDE VIEW

ALTERNATE 2



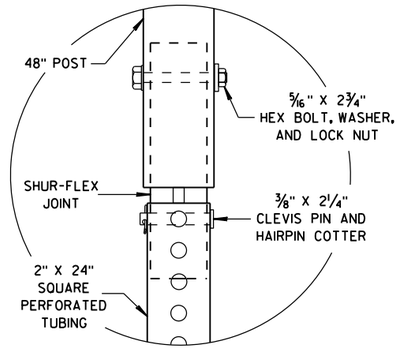
SECTION C-C



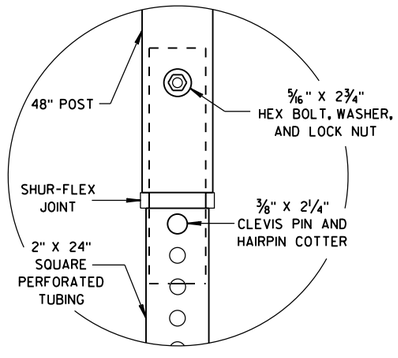
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



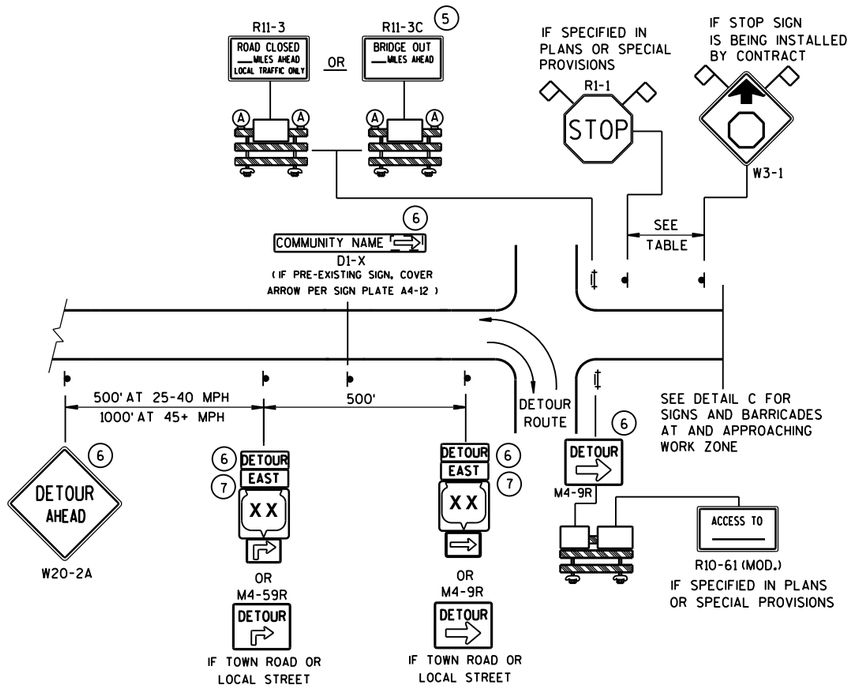
DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

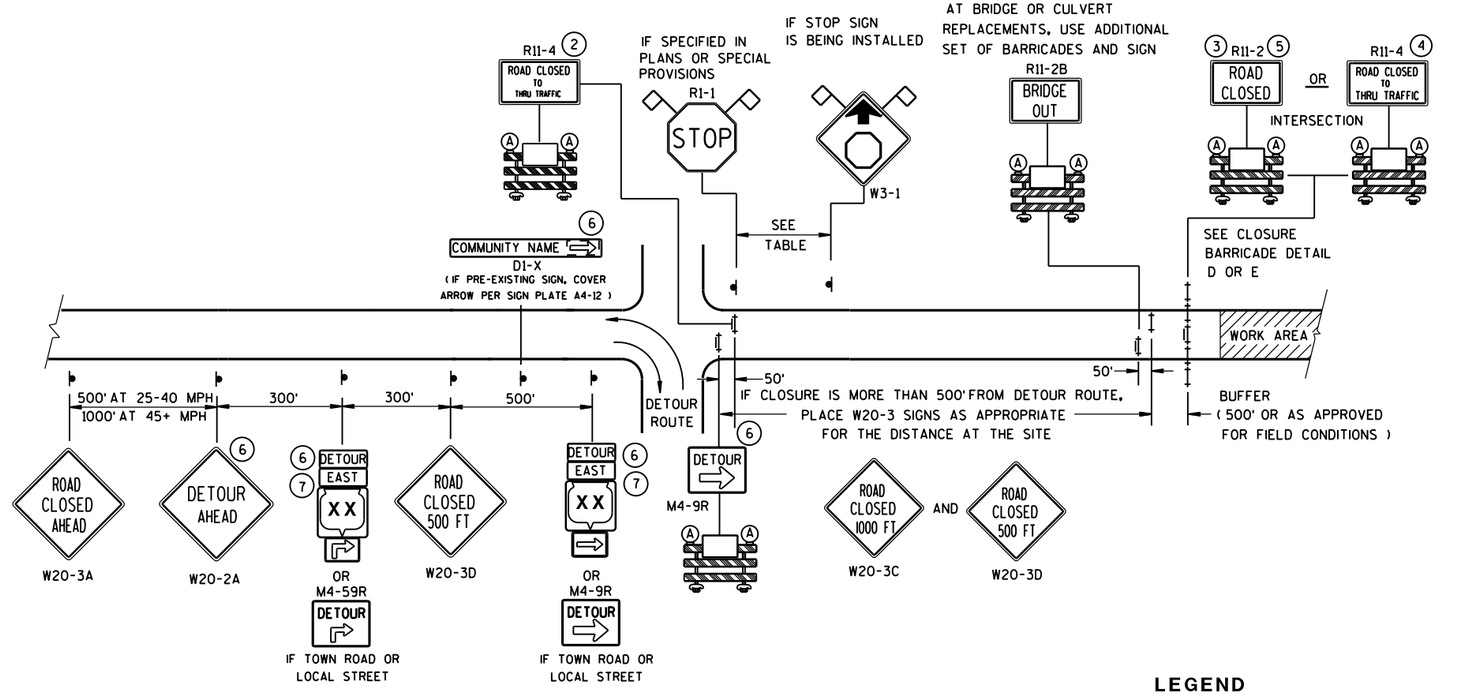
APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6
S.D.D. 15 A 3-2b



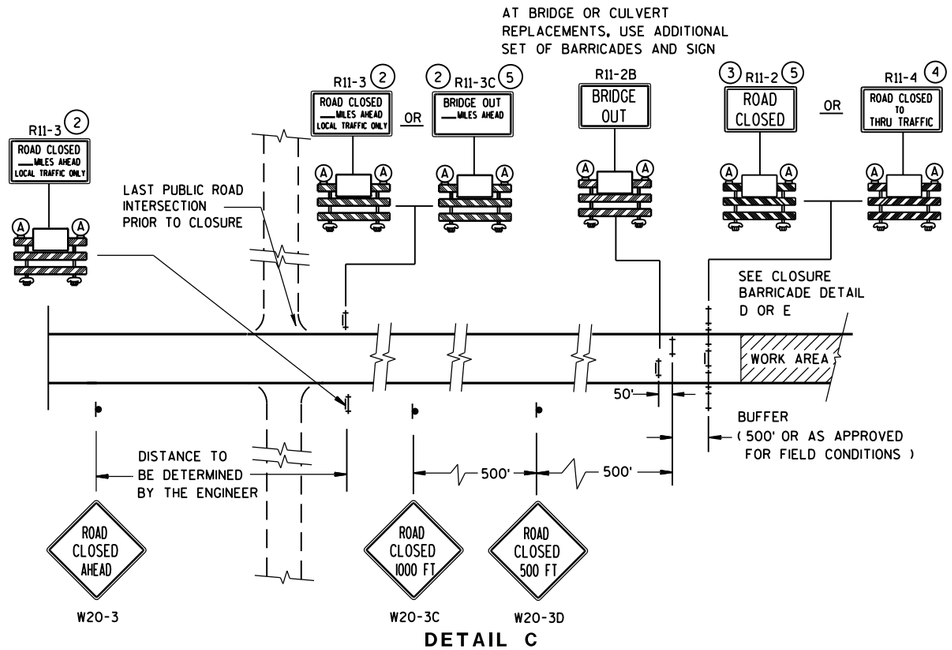
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

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

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

LEGEND

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

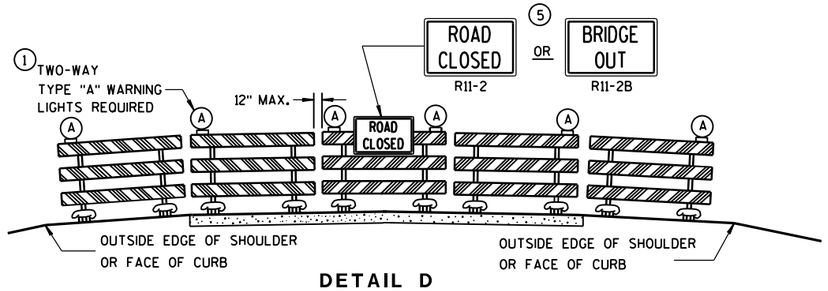
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

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

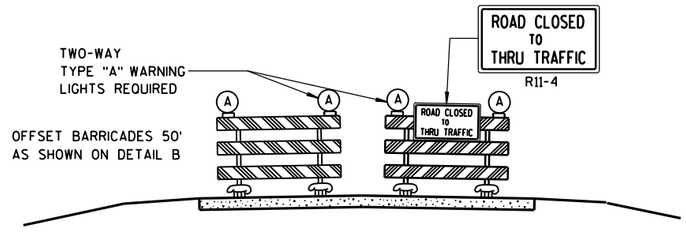
S.D.D. 15 C 2-6a



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

6

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

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

GENERAL NOTES

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

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. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

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

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.

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

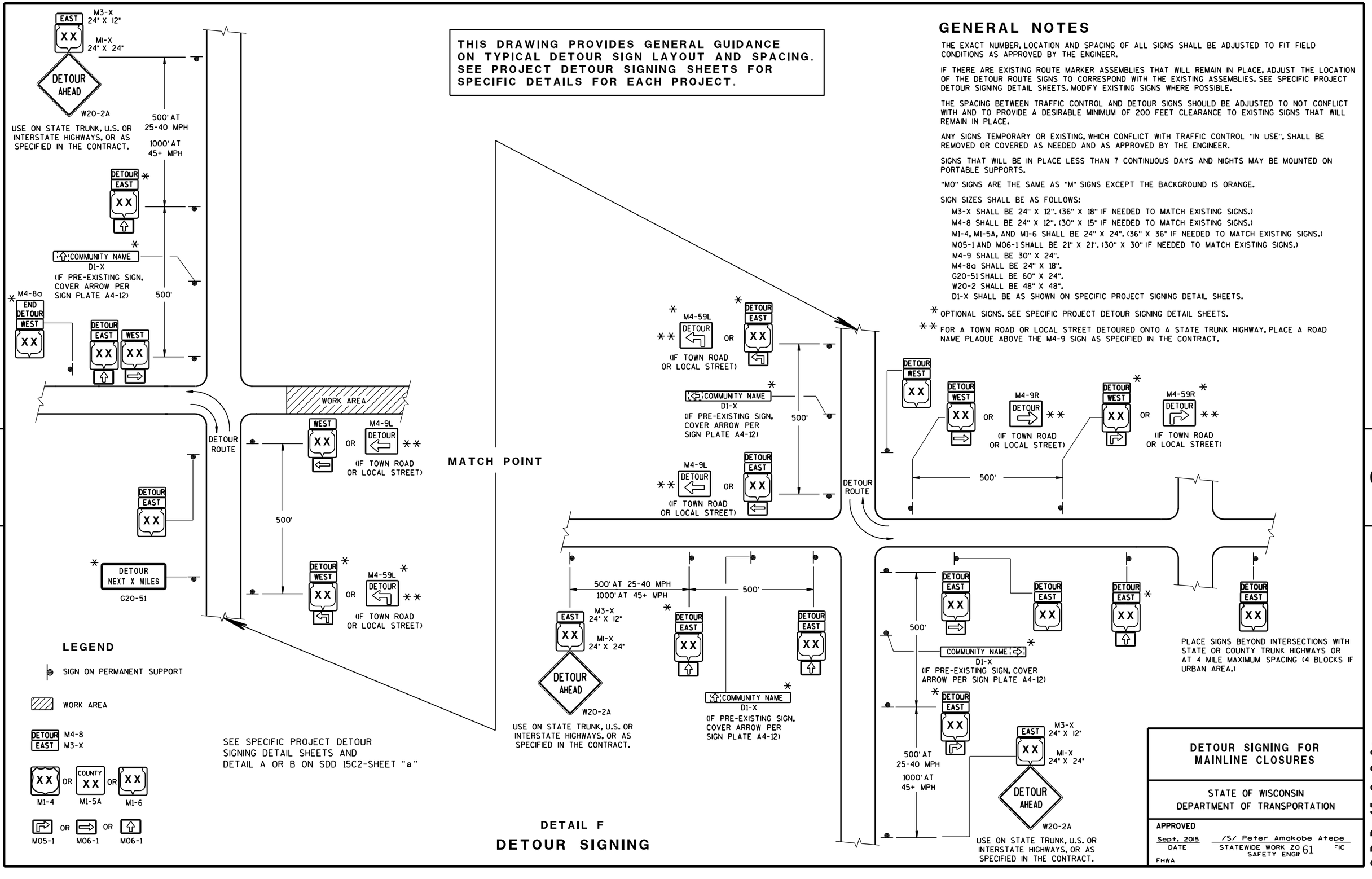
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- 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.)
- M4-9 SHALL BE 30" X 24".
- M4-8a SHALL BE 24" X 18".
- G20-51 SHALL BE 60" X 24".
- W20-2 SHALL BE 48" X 48".
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR EAST — M4-8 / M3-X
- XX OR COUNTY XX OR XX — M1-4 / M1-5A / M1-6
- MO5-1 OR MO6-1 OR MO6-1

SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD 15C2-SHEET "a"

DETAIL F

DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

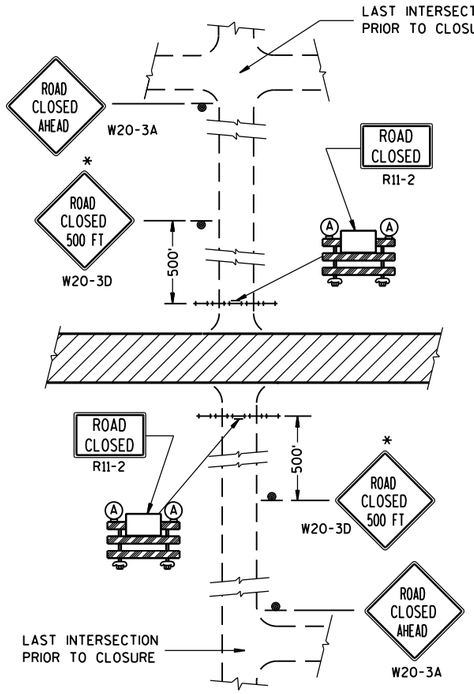
Sept. 2015 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZO SAFETY ENGI — FIC

FHWA

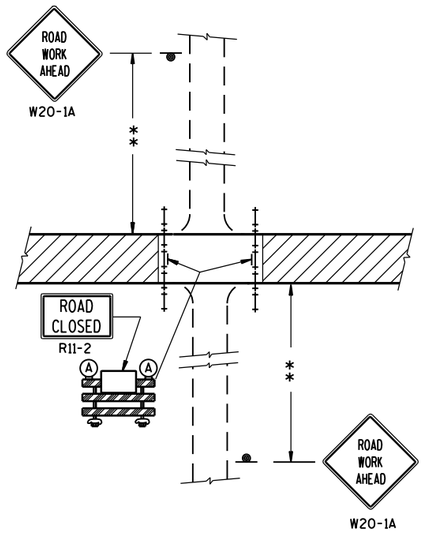
S.D.D. 15 C 2-6c

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



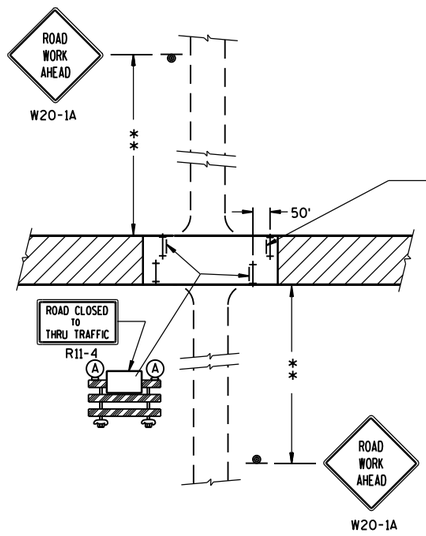
DETAIL 1

(NO ACCESS TO PROJECT)



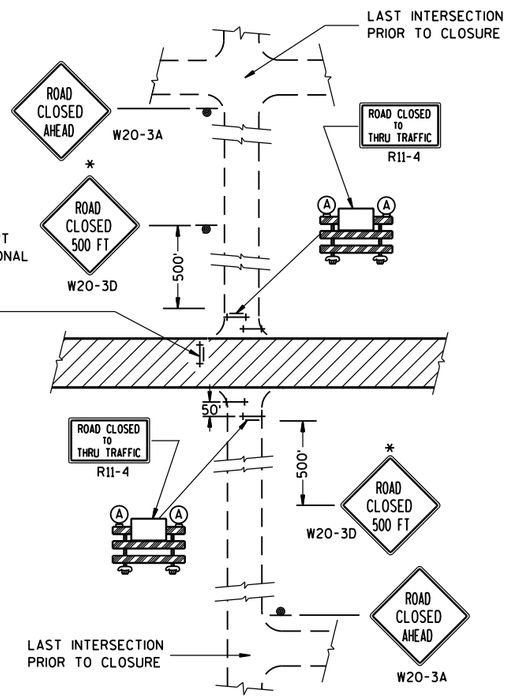
DETAIL 2

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



DETAIL 3

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



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

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

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

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

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

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

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

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

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

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

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

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

LEGEND

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

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible]FIC SAFETY ENGI[illegible]
FHWA

6

S.D.D. 15 C 3-3

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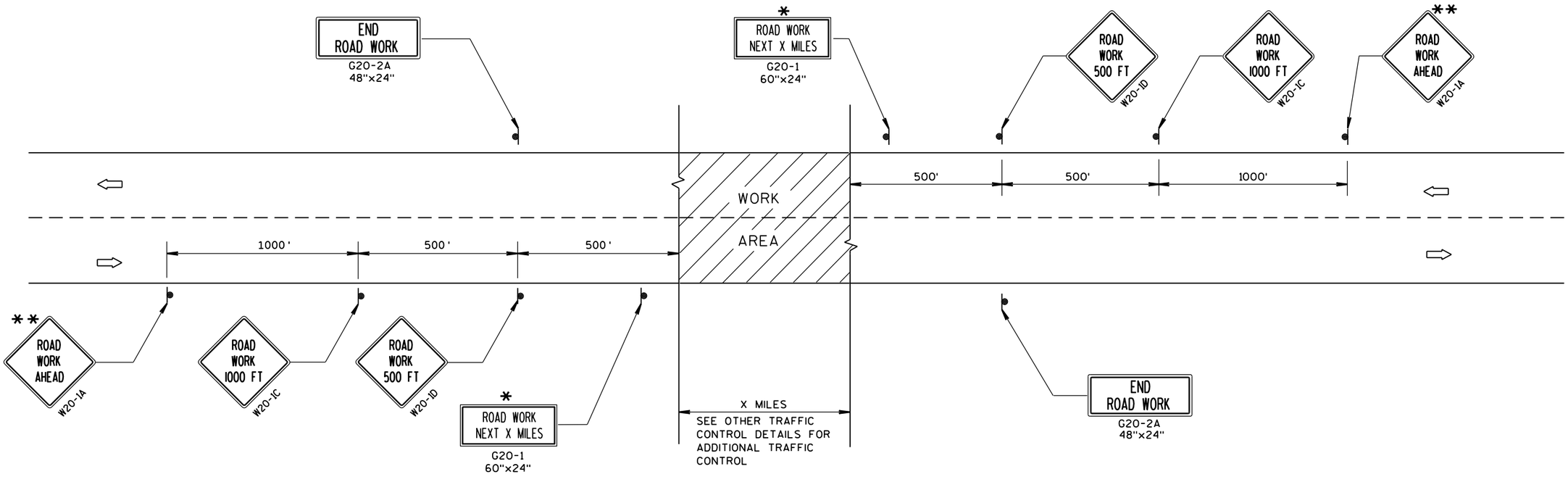
S.D.D. 15 C 3-3



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

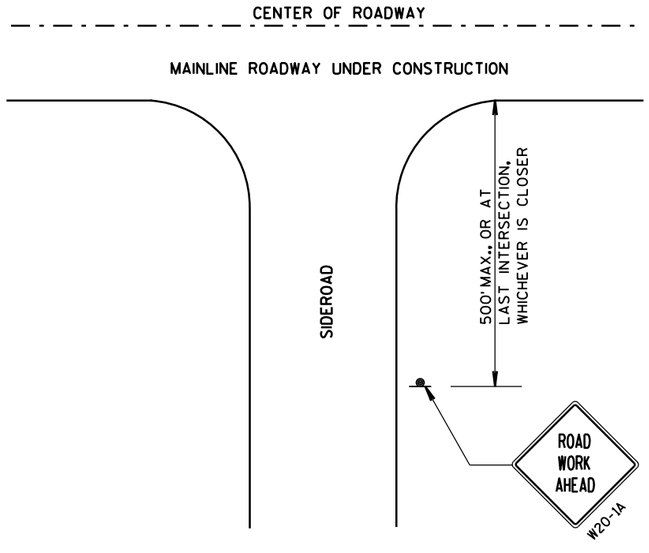
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2015	/S/ Peter Amakobe Atepe
DATE	STATEWIDE WORK ZONE SAFETY ENGINEER

FHWA

6

S.D.D. 15 C 4-3

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S.D.D. 15 C 4-3

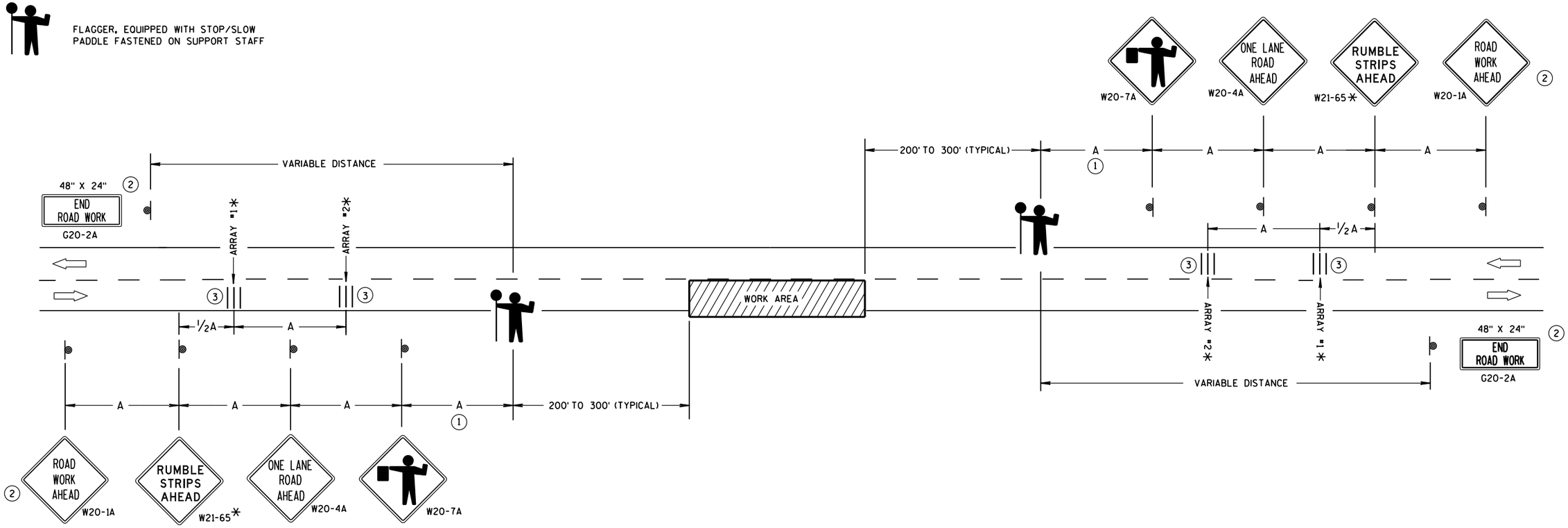
LEGEND

- 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.



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.

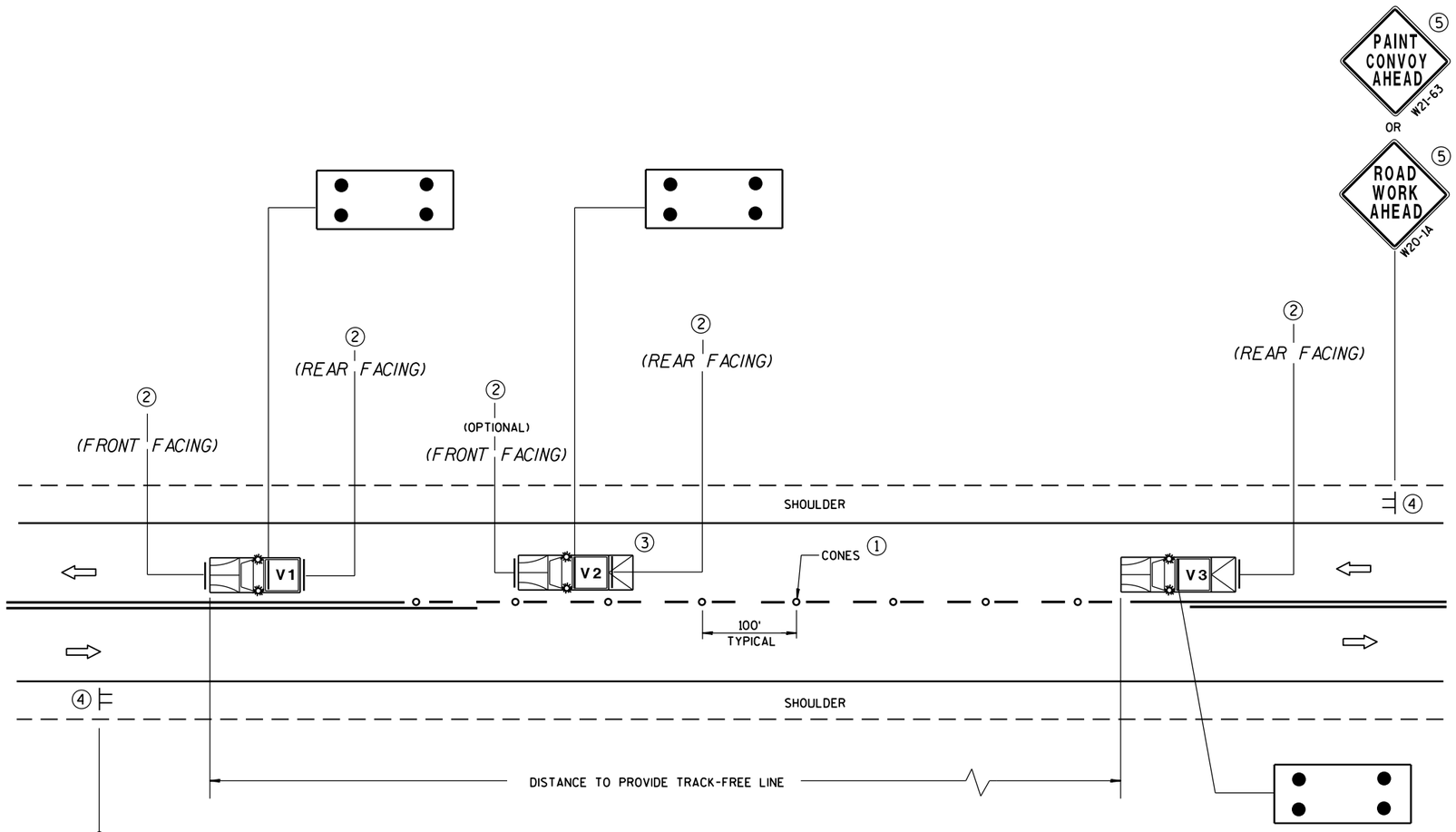
(3) EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December, 2016 — /S/ Andrew Heldtke
DATE — WORK ZONE ENG
FHWA

6
S.D.D. 15 C 12-5



MOVING PAVEMENT MARKING OPERATIONS
TWO-LANE TWO-WAY ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

(3) OPTIONAL TRUCK-MOUNTED ATTENUATOR.

(4) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(5) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

V1	LEAD VEHICLE
V2	SHADOW VEHICLE
V3	TRAIL VEHICLE WITH TMA
TMA	TRUCK-MOUNTED ATTENUATOR
⊢	SIGN ON TEMPORARY SUPPORT
⇨	DIRECTION OF TRAFFIC
o	CONES
⁘	FLASHING ARROW PANEL (CAUTION)

MOVING PAVEMENT MARKING OPERATION
TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

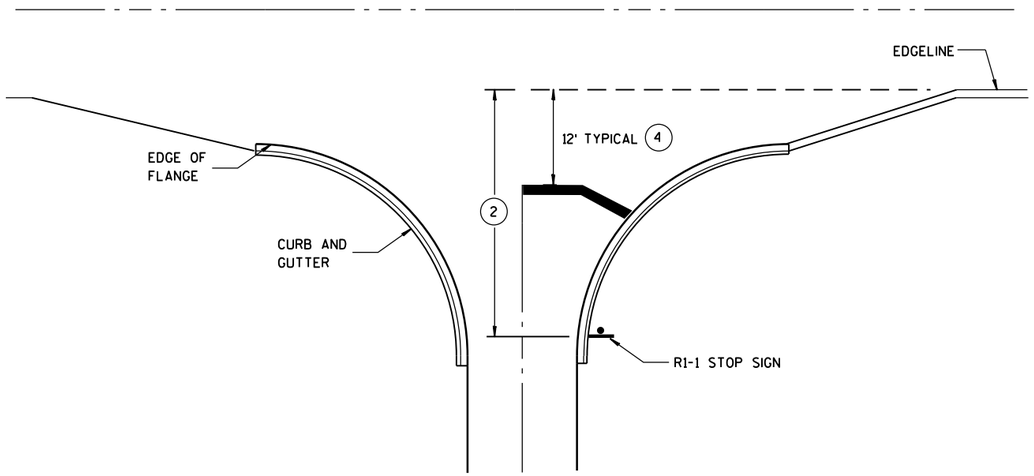
APPROVED
June 2016 — DATE
/S/ Peter Amakobe Atepe — STATEWIDE WORK ZONE SAFETY ENGINEER
FHWA

6

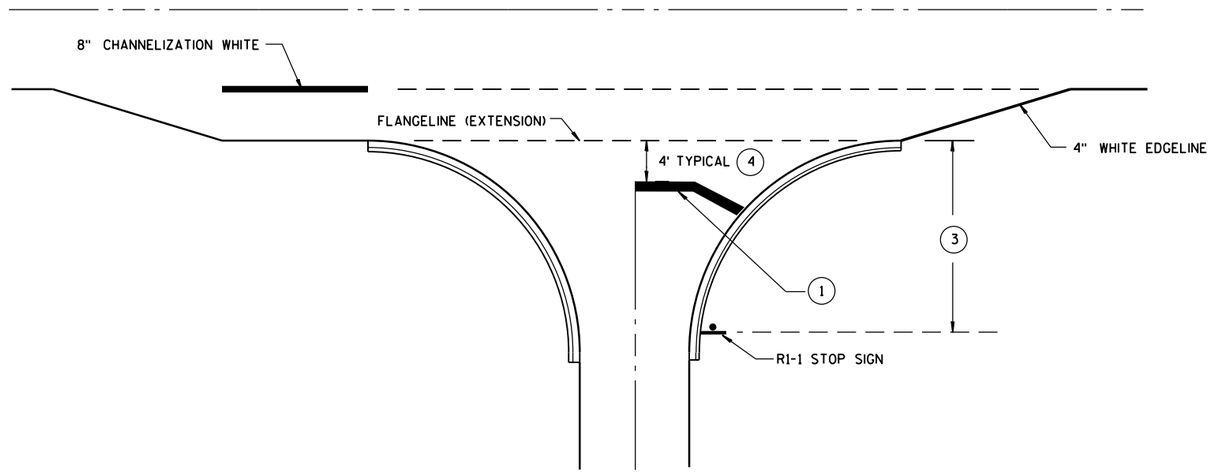
S.D.D. 15 C 19-4a

6

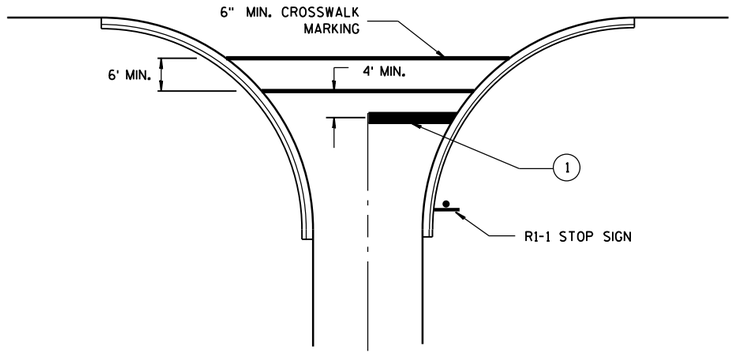
S.D.D. 15 C 19-4a



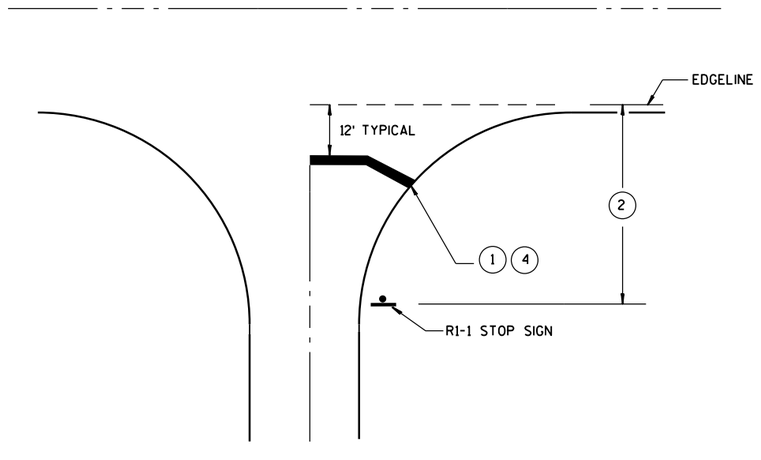
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE 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

4-18-2016
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAR

NEER

FHWA

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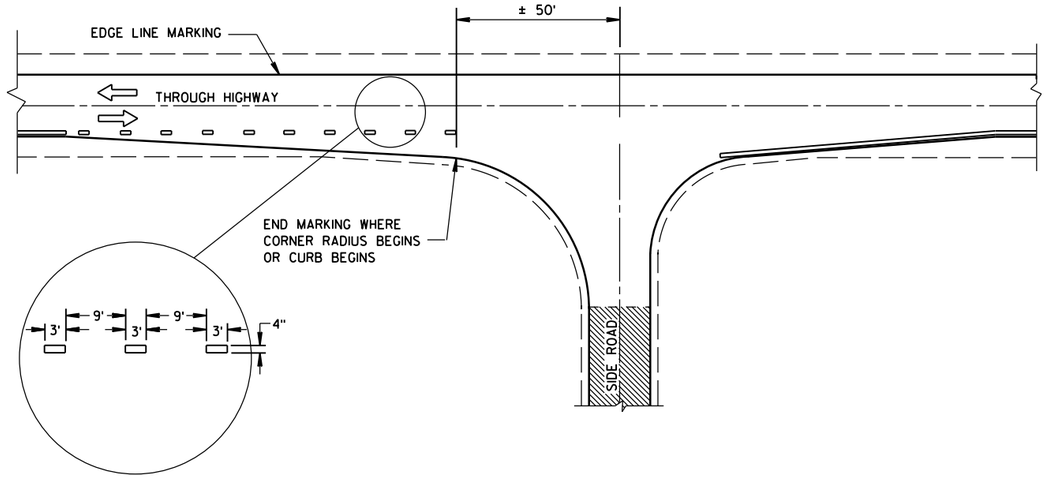
S.D.D. 15 C 33-2



MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

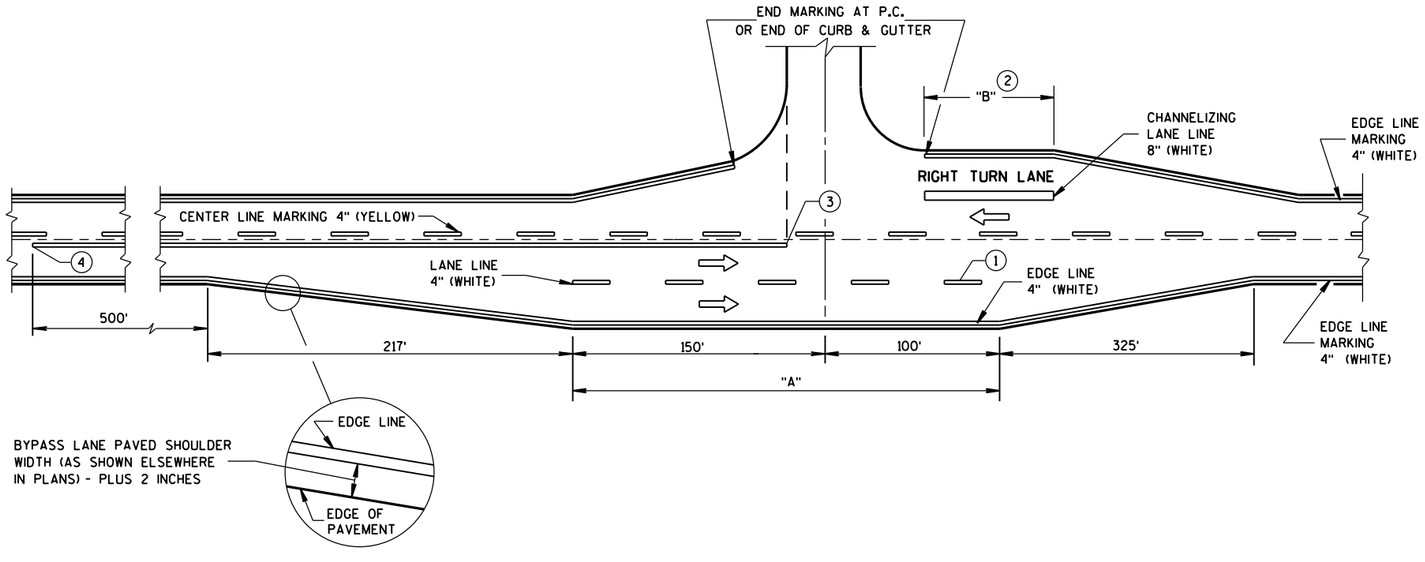
(1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.

(2) WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.

(3) BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.

(4) BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)

PAVEMENT MARKING
(INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 15 C 35-1a

GENERAL NOTES

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

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

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

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

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

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

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

TABLE A

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

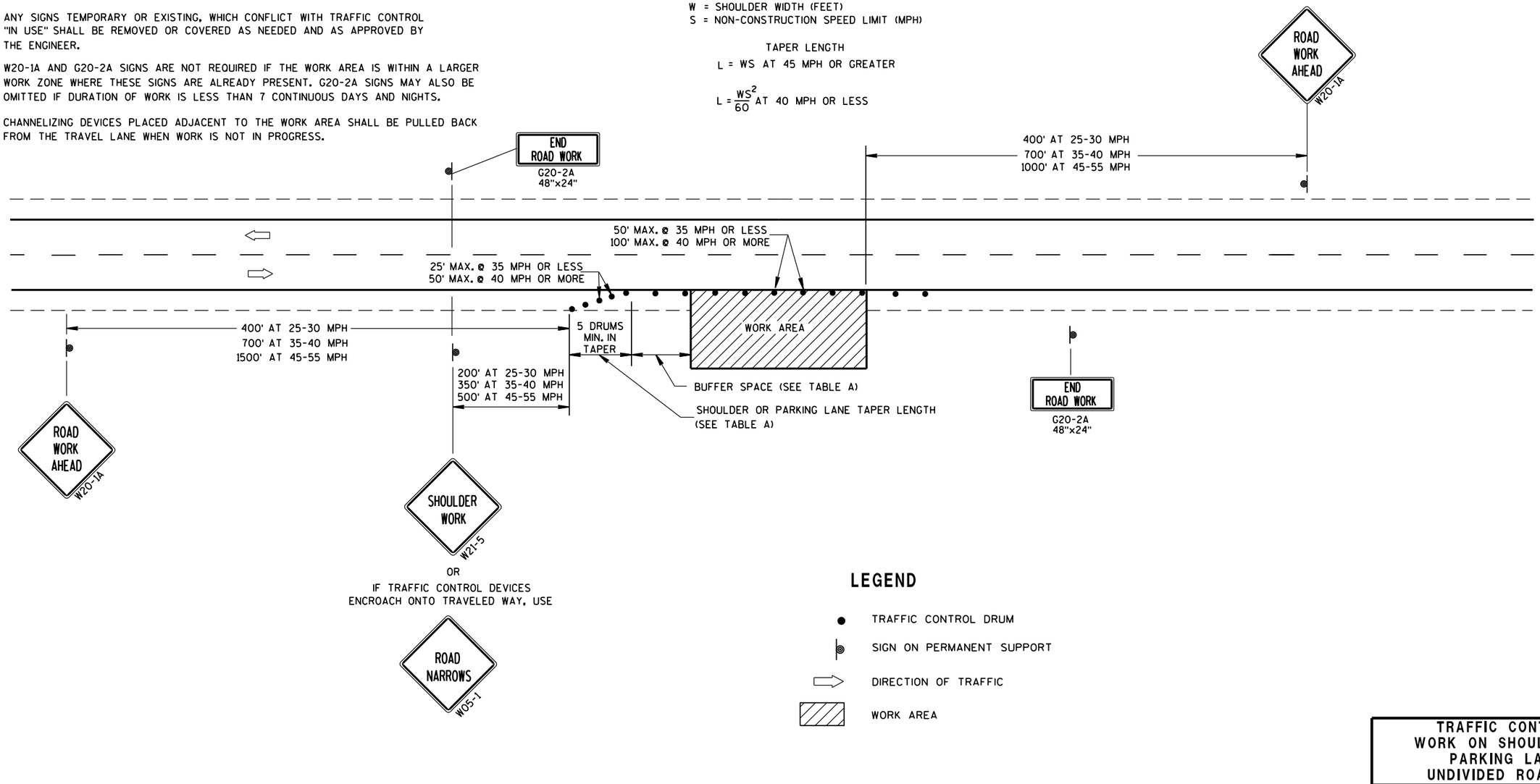
W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH

L = WS AT 45 MPH OR GREATER

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

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



LEGEND

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

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

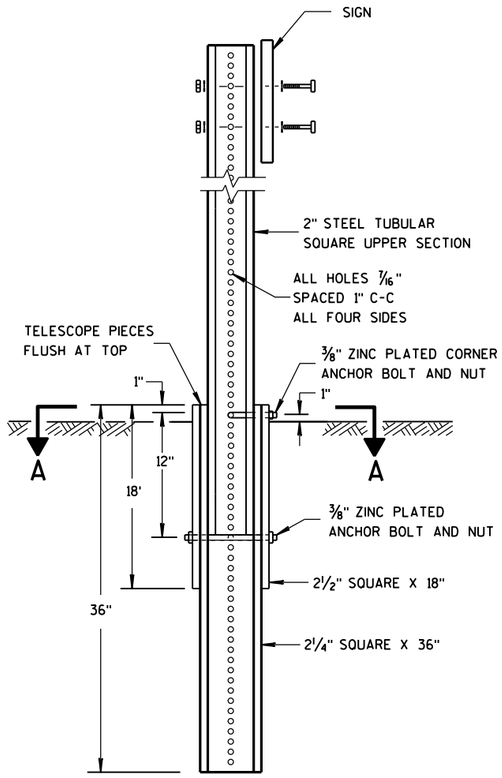
July 14, 2015 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZO SAFETY ENGI FIC

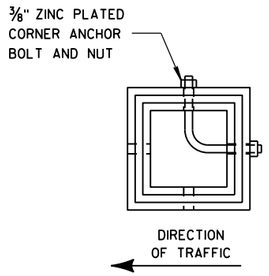
FHWA

6

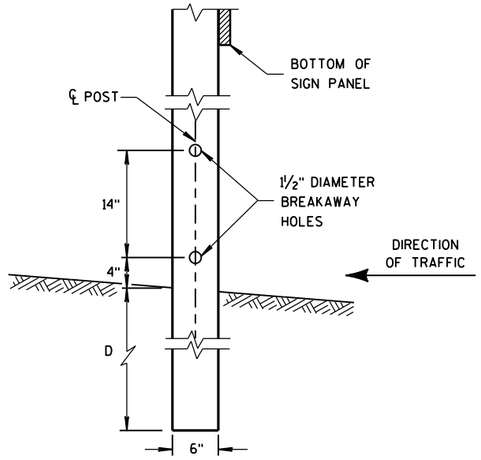
S.D.D. 15 D 28-3



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



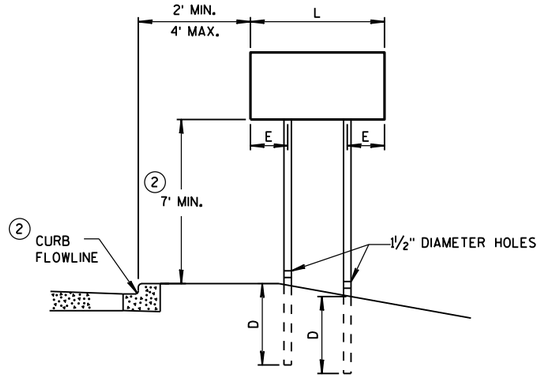
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

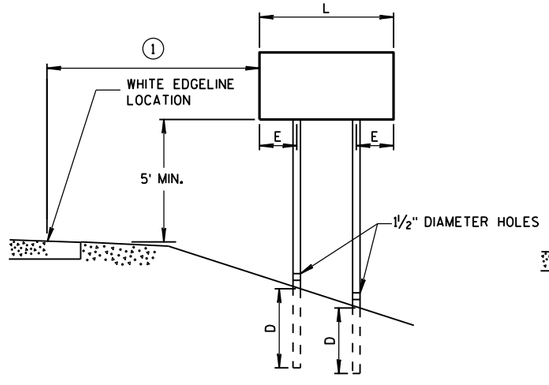
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

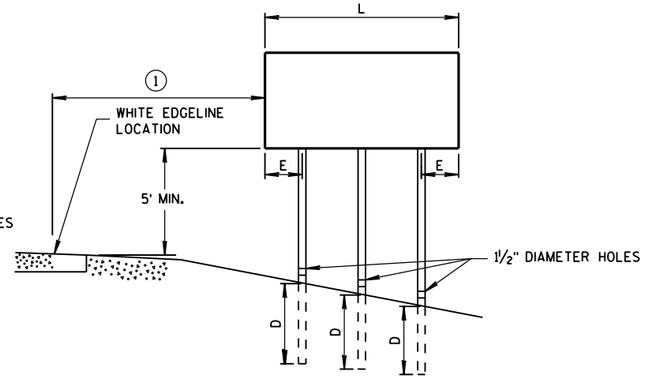
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

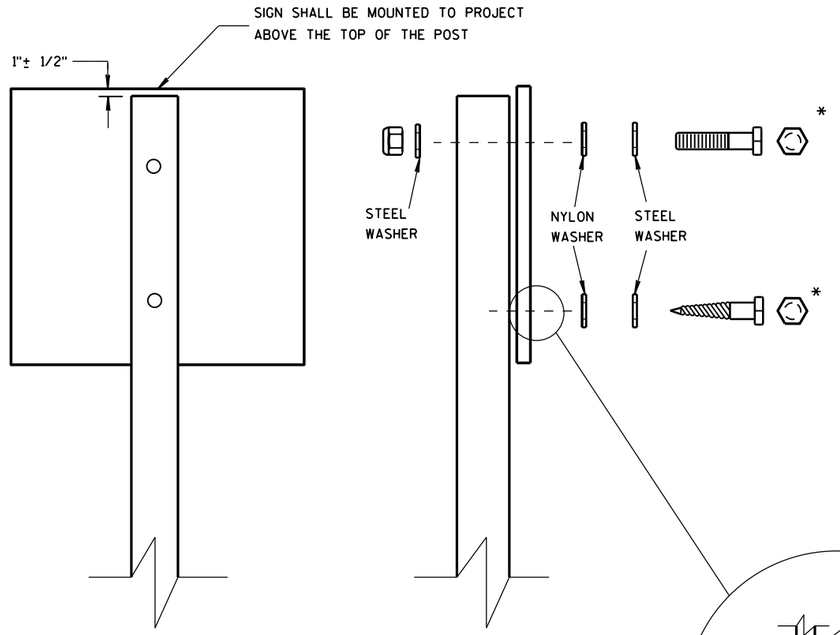
SEE NOTE (3)

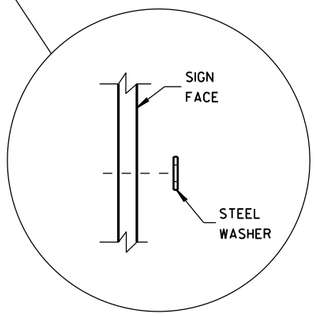
TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

STATE OF WISCONSIN DEPARTMENT OF TRANSPO

6

S.D.D. 15 D 38-1a





WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

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

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

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

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

6

6

S.D.D. 15 D 38-1b

S.D.D. 15 D 38-1b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

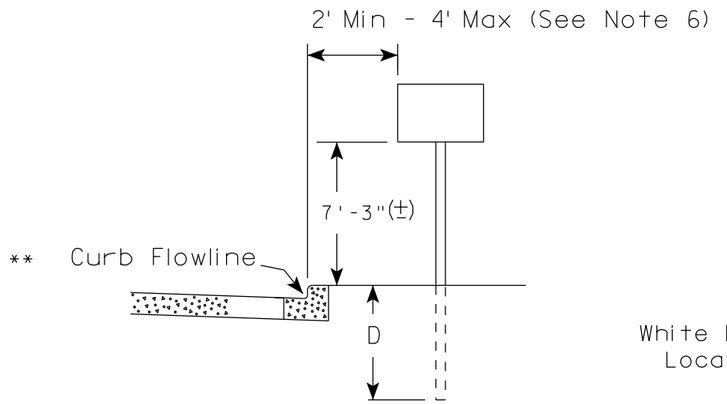
Feb. 2015 — DATE

/S/ Travis Feltes — STATE TRAFFIC ENGINEER

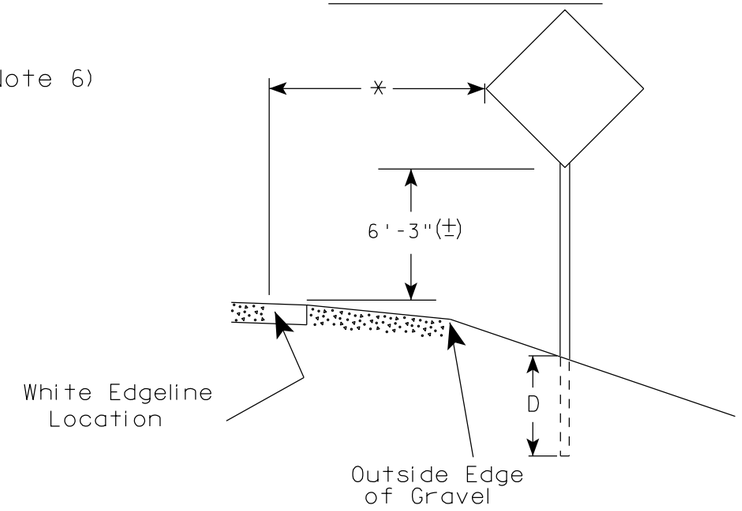
FHWA

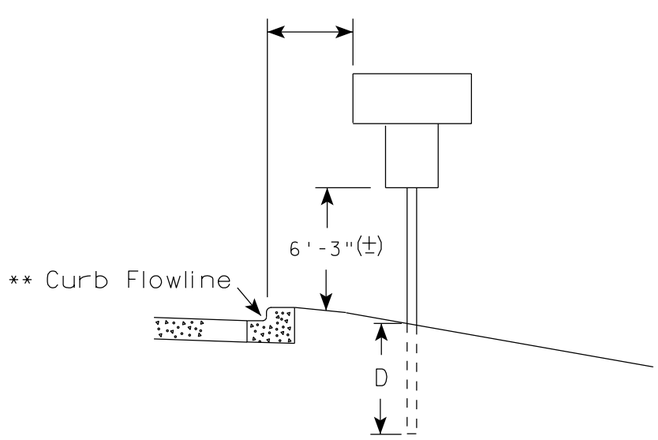
SIGN

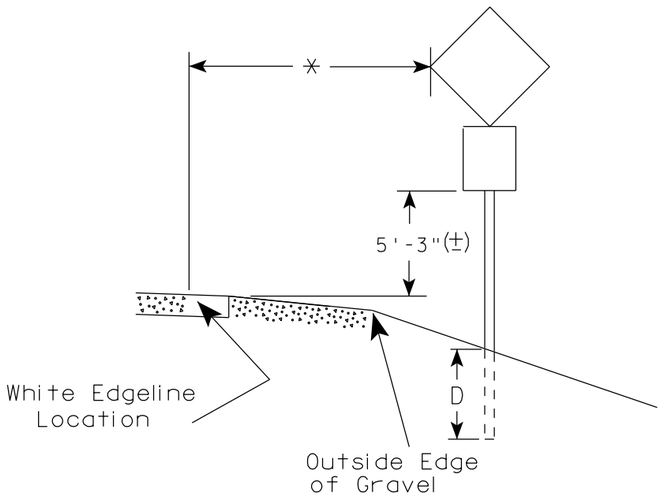
URBAN AREA



RURAL AREA (See Note 2)







GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

POST EMBEDMENT DEPTH

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

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

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

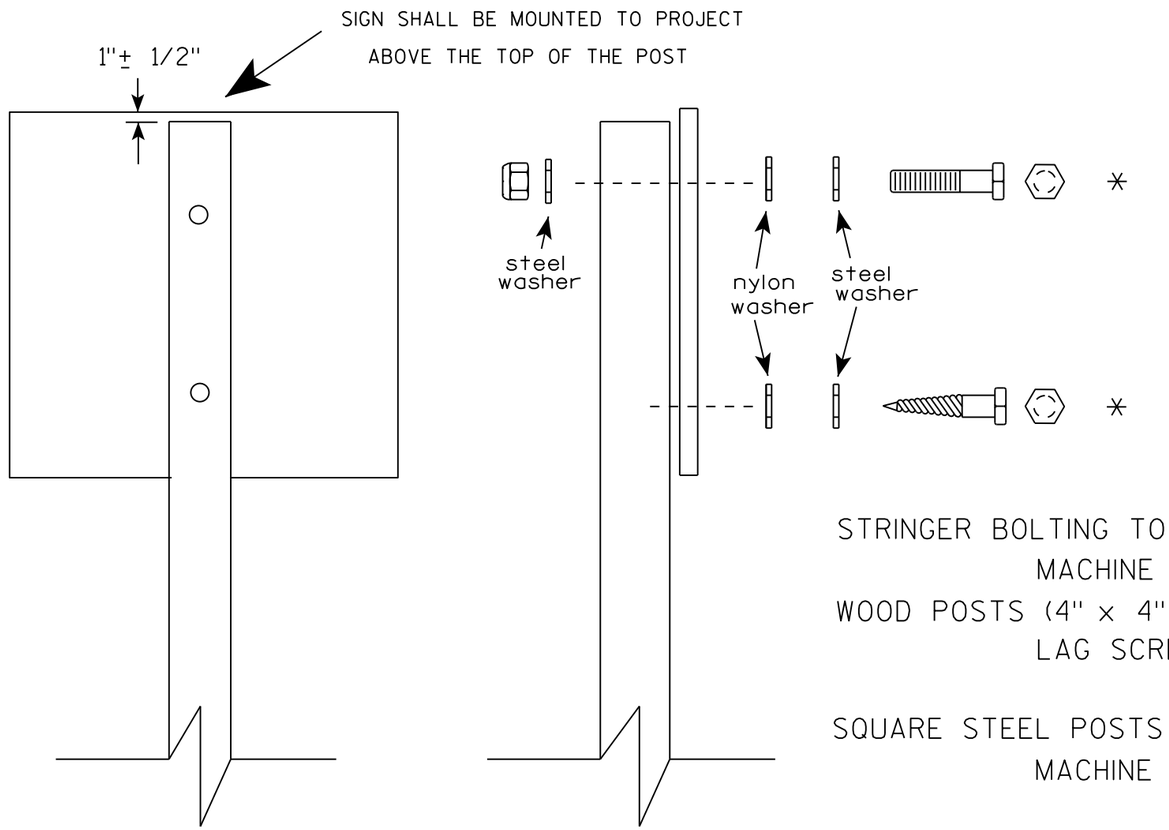
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-3.20

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



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

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

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

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts
WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)
SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

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

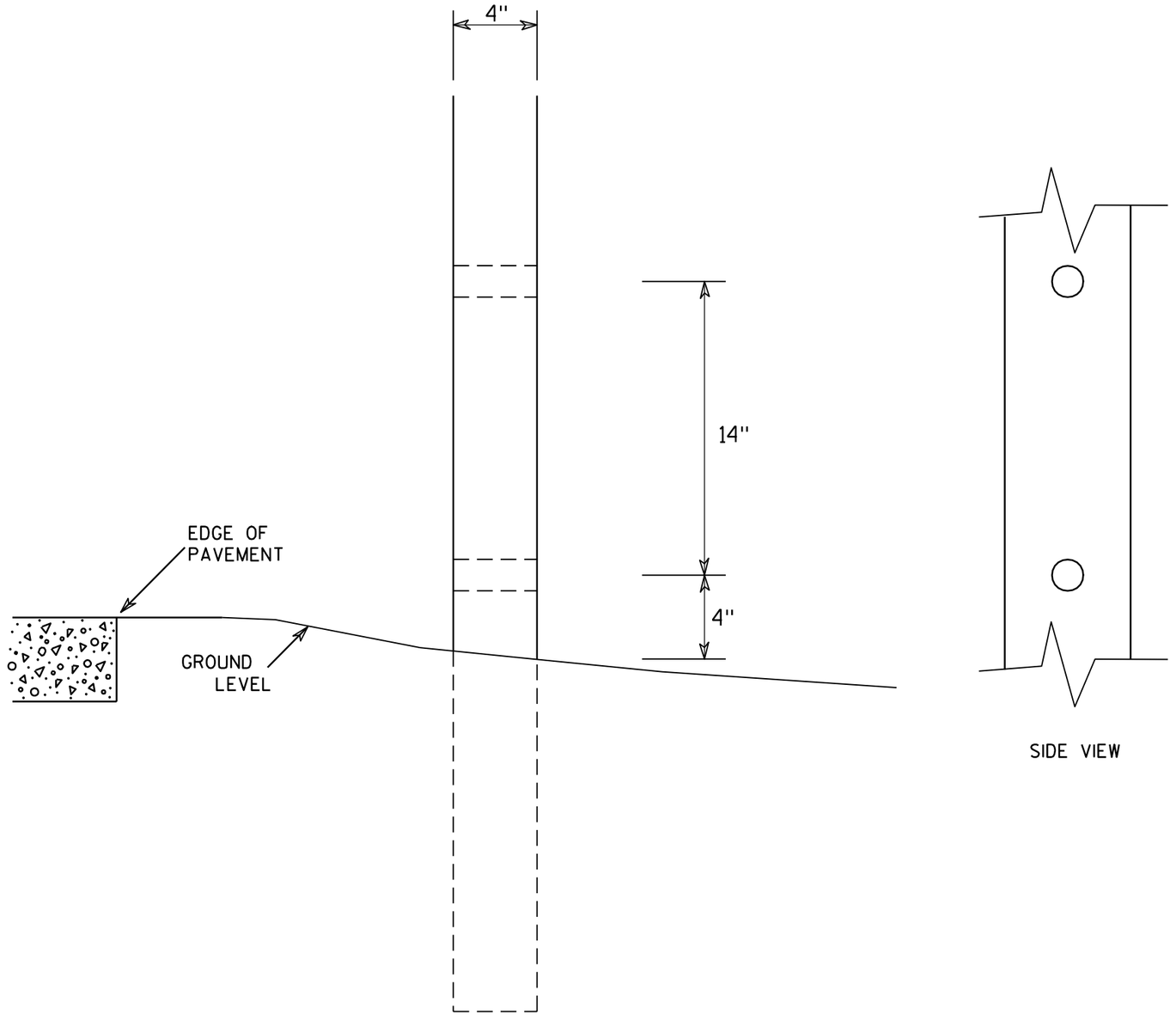
ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E



SIDE VIEW

GENERAL NOTES

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

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7

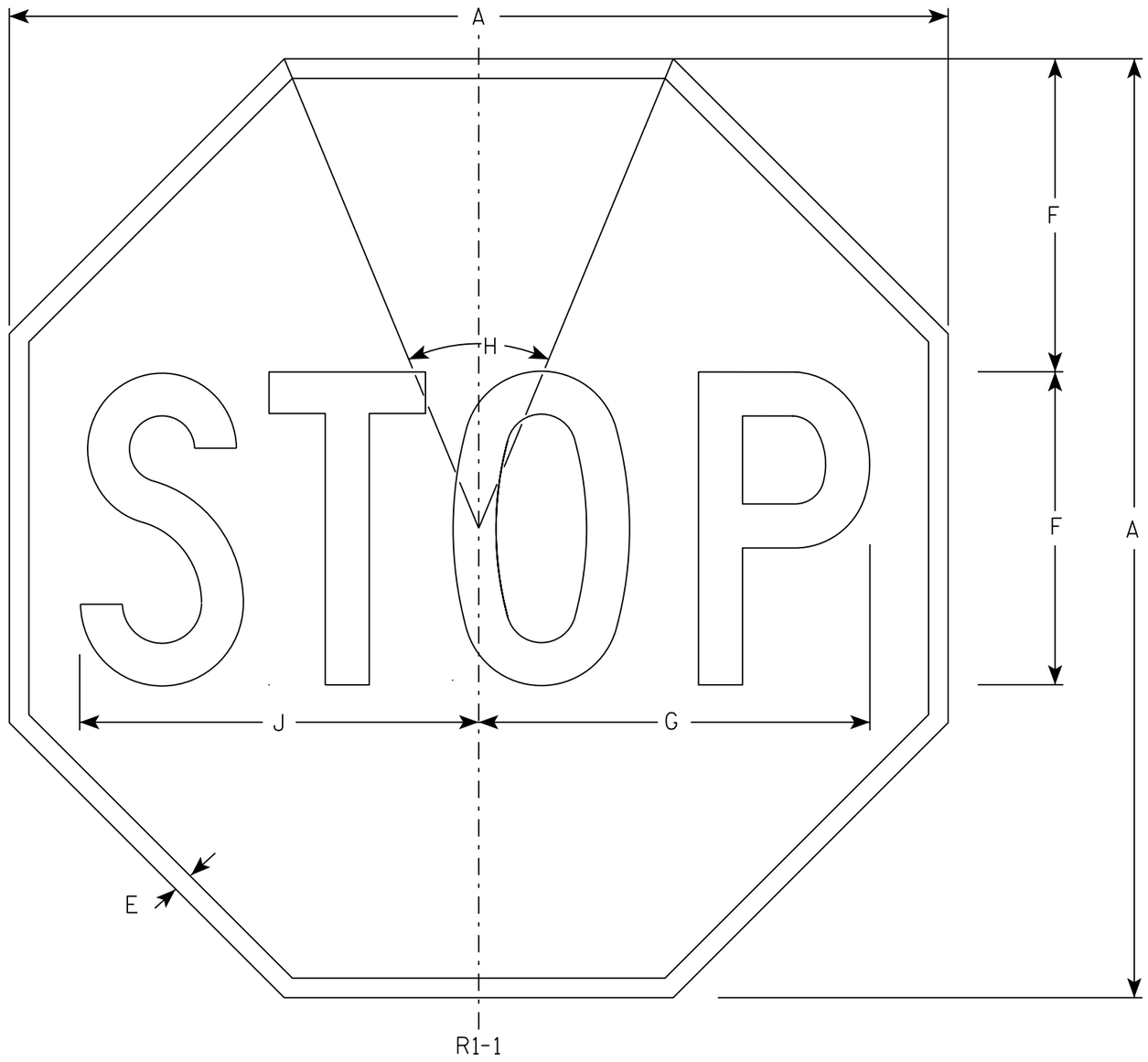
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 73	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

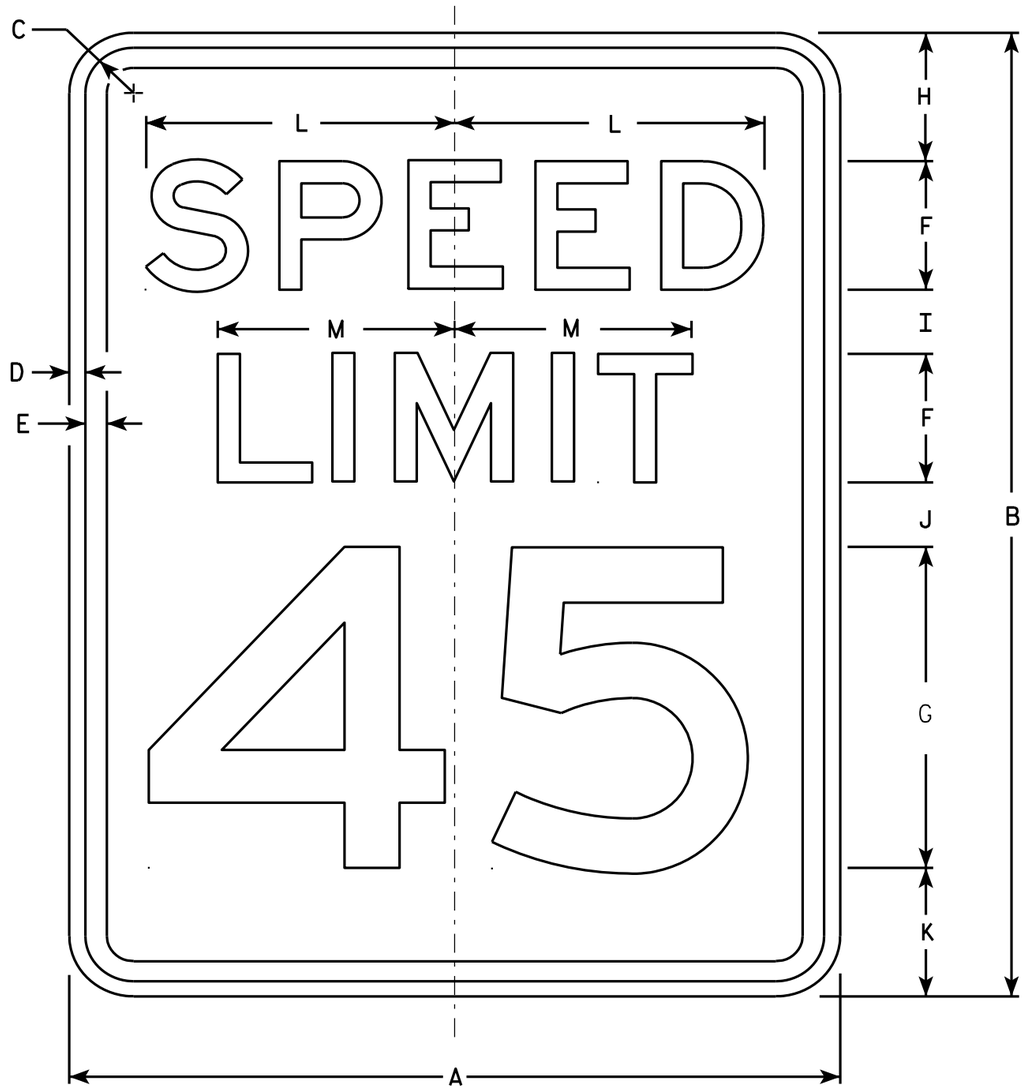
STANDARD SIGN
R1-1

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:	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

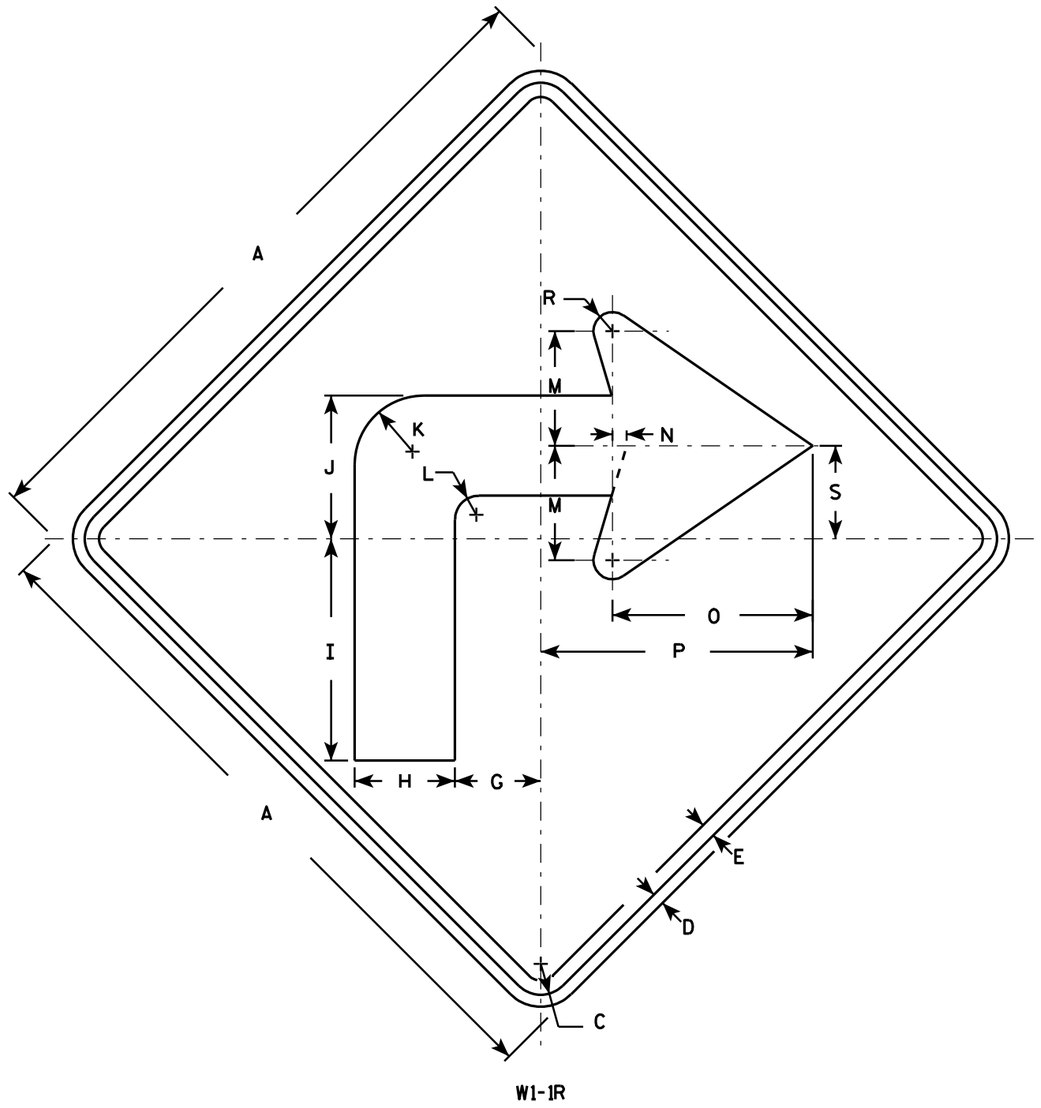
STANDARD SIGN
R2-1

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: 75 | E



W1-1R

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. W1-1L is the same as W1-1R 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	3 1/2	7 3/4	5	2 1/2	7/8	4	1/2	7	9 1/2		5/8	3 1/4								4.0
2S	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
2M	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
3	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
4	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0
5	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0

STANDARD SIGN
W1-1

WISCONSIN DEPT OF TRANSPORTATION

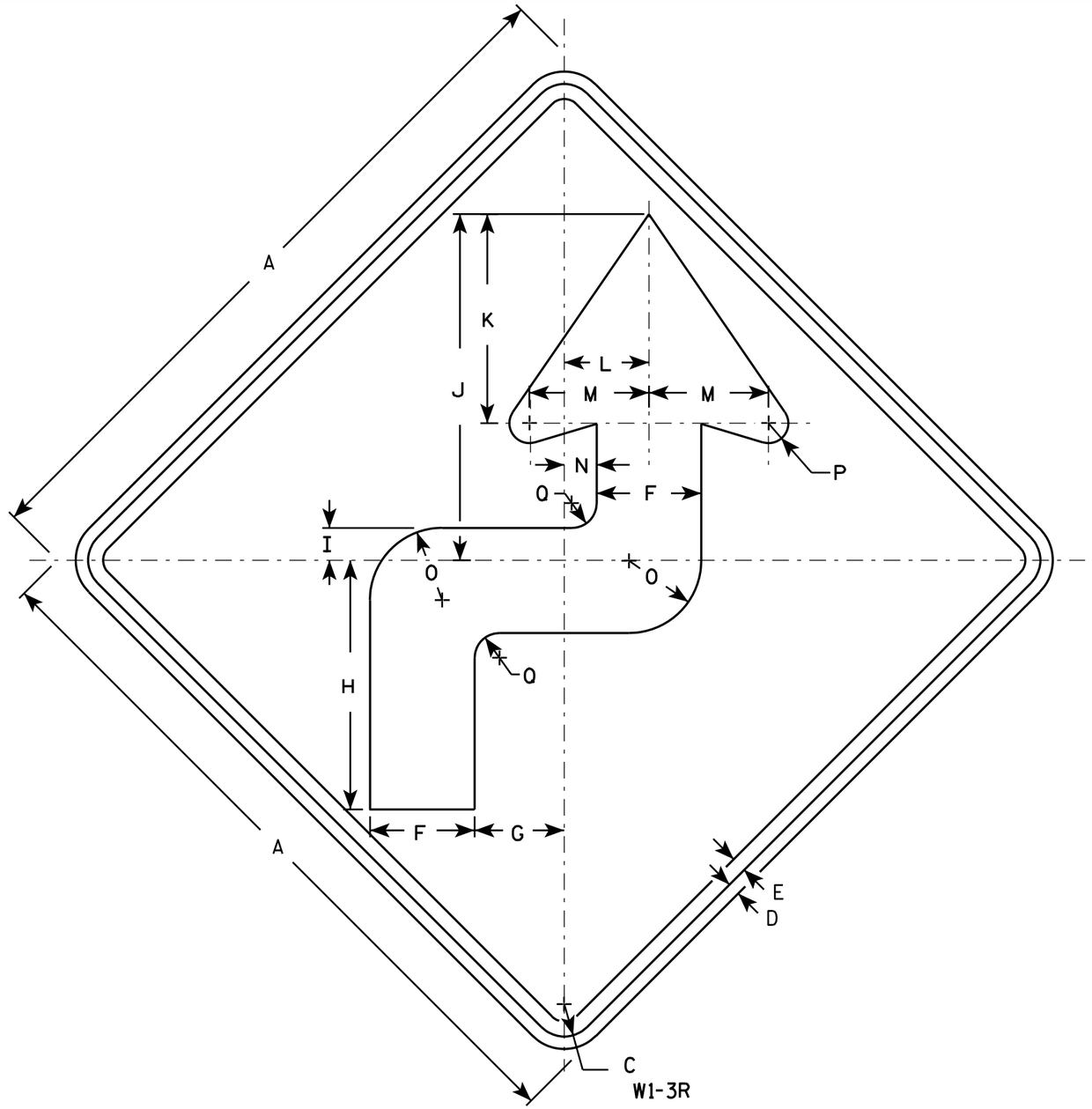
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-1.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 76 | E

7

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W11.DGN PLOT DATE : 15-MAY-2012 13:47 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 7.939035:1.000000
WISDOT/CADDS SHEET 42



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

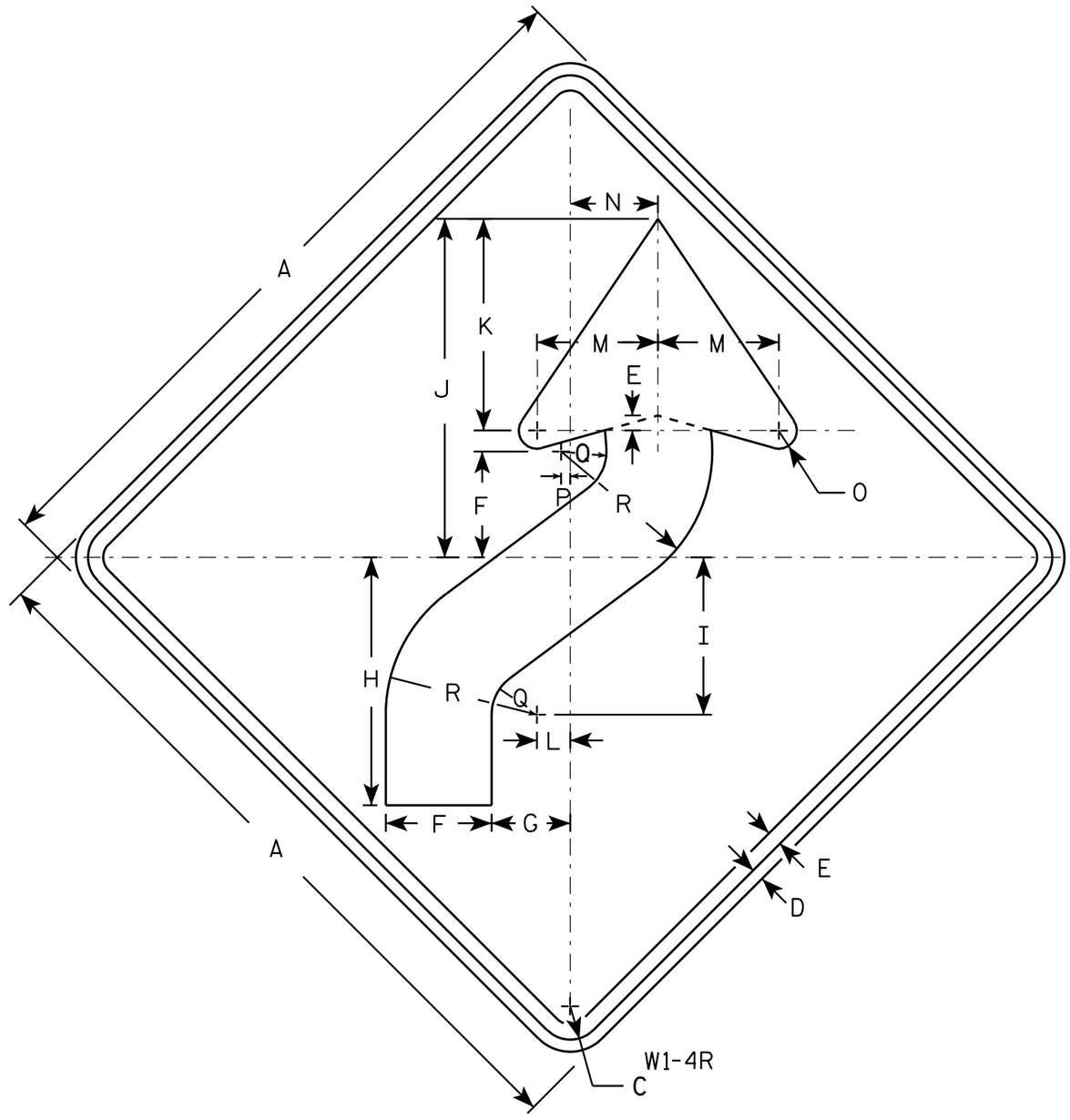
STANDARD SIGN
W1-3

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: 77 | 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. W1-4L is the same as W1-4R 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	2 5/8	8 1/4	5 1/4	11 1/4	7	1 1/8	4	3	5/8	1/4	1 1/2	5									4.0
2S	30		1 3/8	1/2	5/8	4 3/8	3 1/4	10 1/4	6 1/2	14	8 3/4	1 3/8	5	3 5/8	3/4	3/8	1 7/8	6 1/4									6.25
2M	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
3	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
4	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

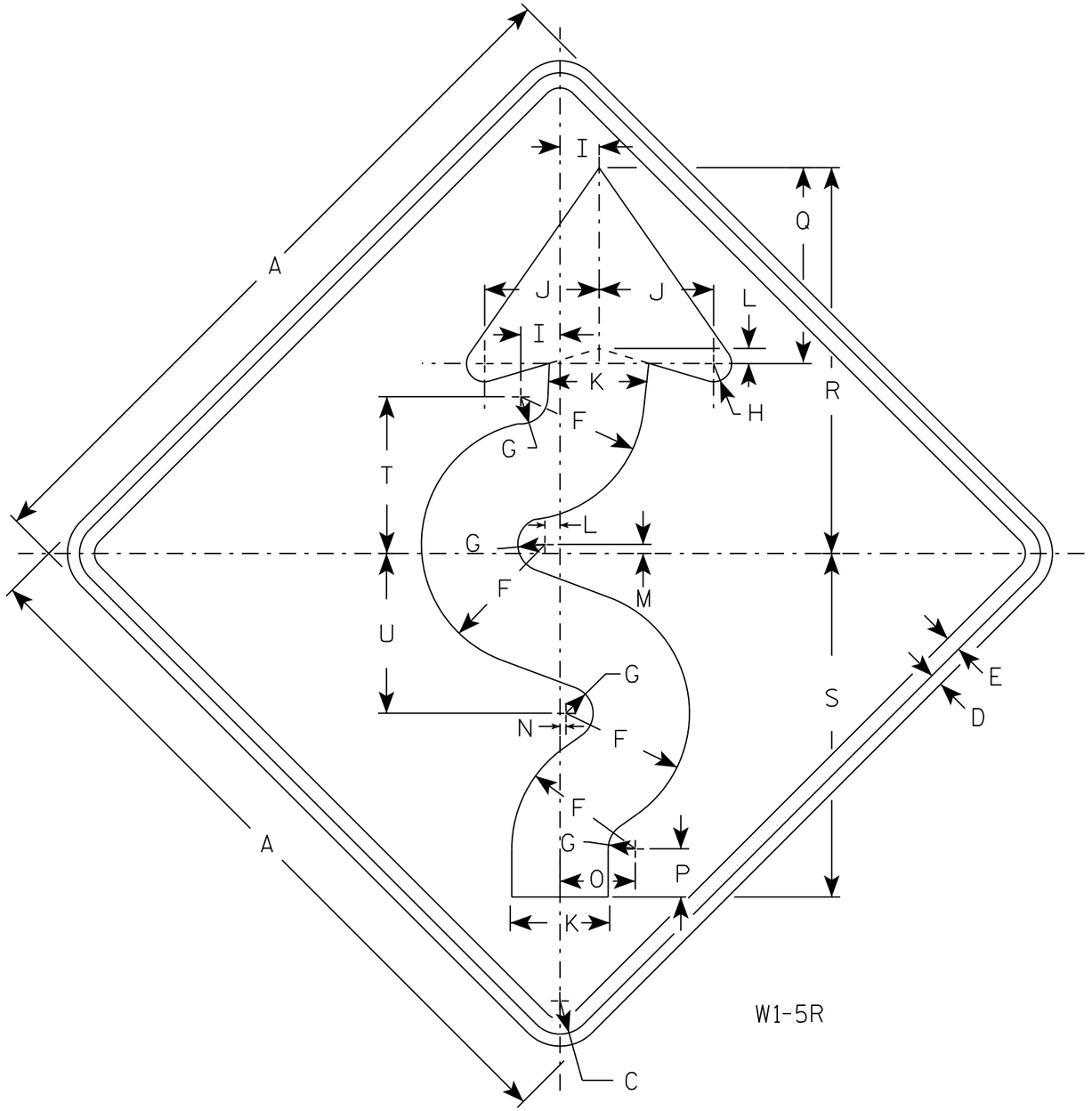
STANDARD SIGN
W1-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/17/12 PLATE NO. W1-4.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 78 | E



W1-5R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. W1-5L is the same as W1-5R except the arrow is reversed along the vertical centerline.
4. If used with W13-1 of 30 MPH or less, use 36" sign for Size 2S.

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	4 1/8	7/8	5/8	1 1/4	3 3/4	3 1/4	1/2	1/4	1/8	2 1/2	1 5/8	6 1/2	12 3/4	11 3/8	5 1/4	5 1/4						4.0
2S	30		1 3/8	1/2	5/8	5 1/8	1 1/8	3/4	1 5/8	4 3/4	4 1/8	5/8	3/8	1/4	3 1/8	2	8 1/8	16	14 1/4	6 1/2	6 5/8						6.25
2M	36		1 5/8	5/8	3/4	6 1/4	1 3/8	1	1 7/8	5 5/8	4 7/8	3/4	3/8	1/4	3 3/4	2 7/8	9 3/4	19 1/8	17 1/8	7 3/4	7 7/8						9.0
3	36		1 5/8	5/8	3/4	6 1/4	1 3/8	1	1 7/8	5 5/8	4 7/8	3/4	3/8	1/4	3 3/4	2 7/8	9 3/4	19 1/8	17 1/8	7 3/4	7 7/8						9.0
4	36		1 5/8	5/8	3/4	6 1/4	1 3/8	1	1 7/8	5 5/8	4 7/8	3/4	3/8	1/4	3 3/4	2 7/8	9 3/4	19 1/8	17 1/8	7 3/4	7 7/8						9.0
5	48		2 1/4	3/4	1	8 1/4	1 3/4	1 1/4	2 1/2	7 1/2	6 1/2	1	1/2	3/8	5	3 1/4	13	25 1/2	22 3/4	10 3/8	10 1/2						16.0

STANDARD SIGN
W1-5

WISCONSIN DEPT OF TRANSPORTATION

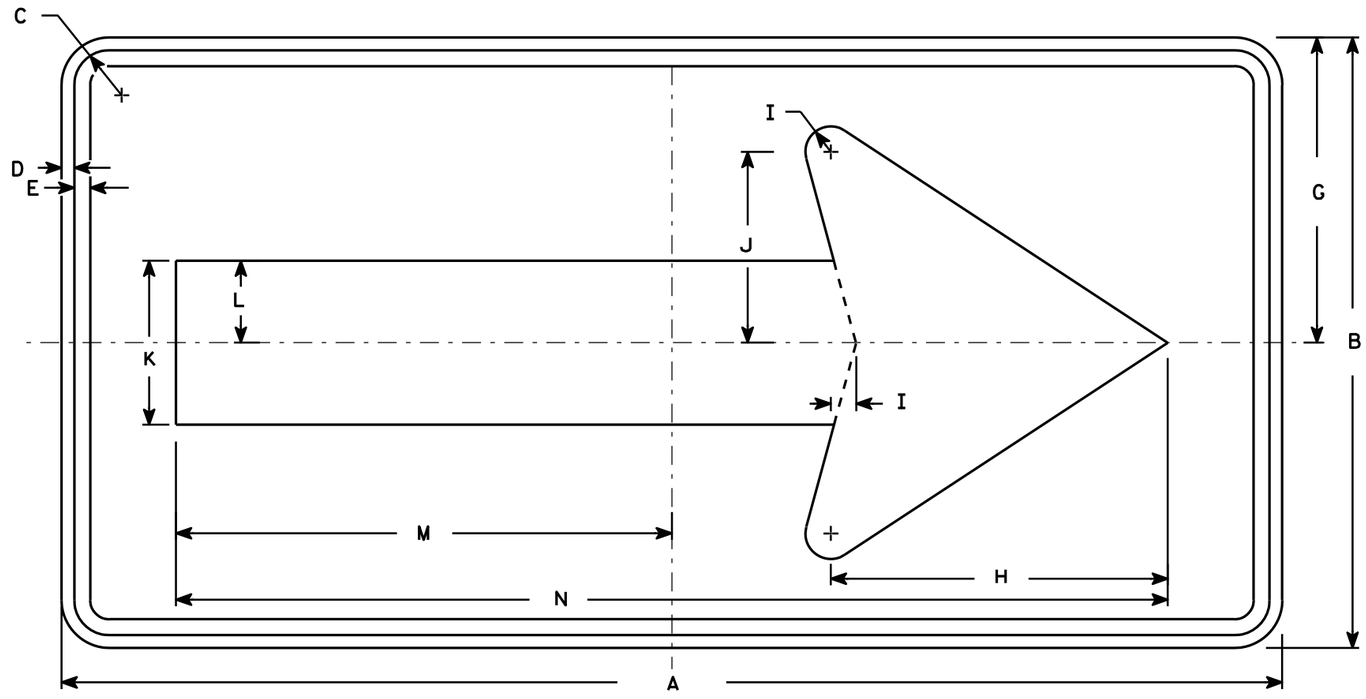
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 8/1/16 PLATE No. W1-5.9

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

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. 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.



W1-6

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

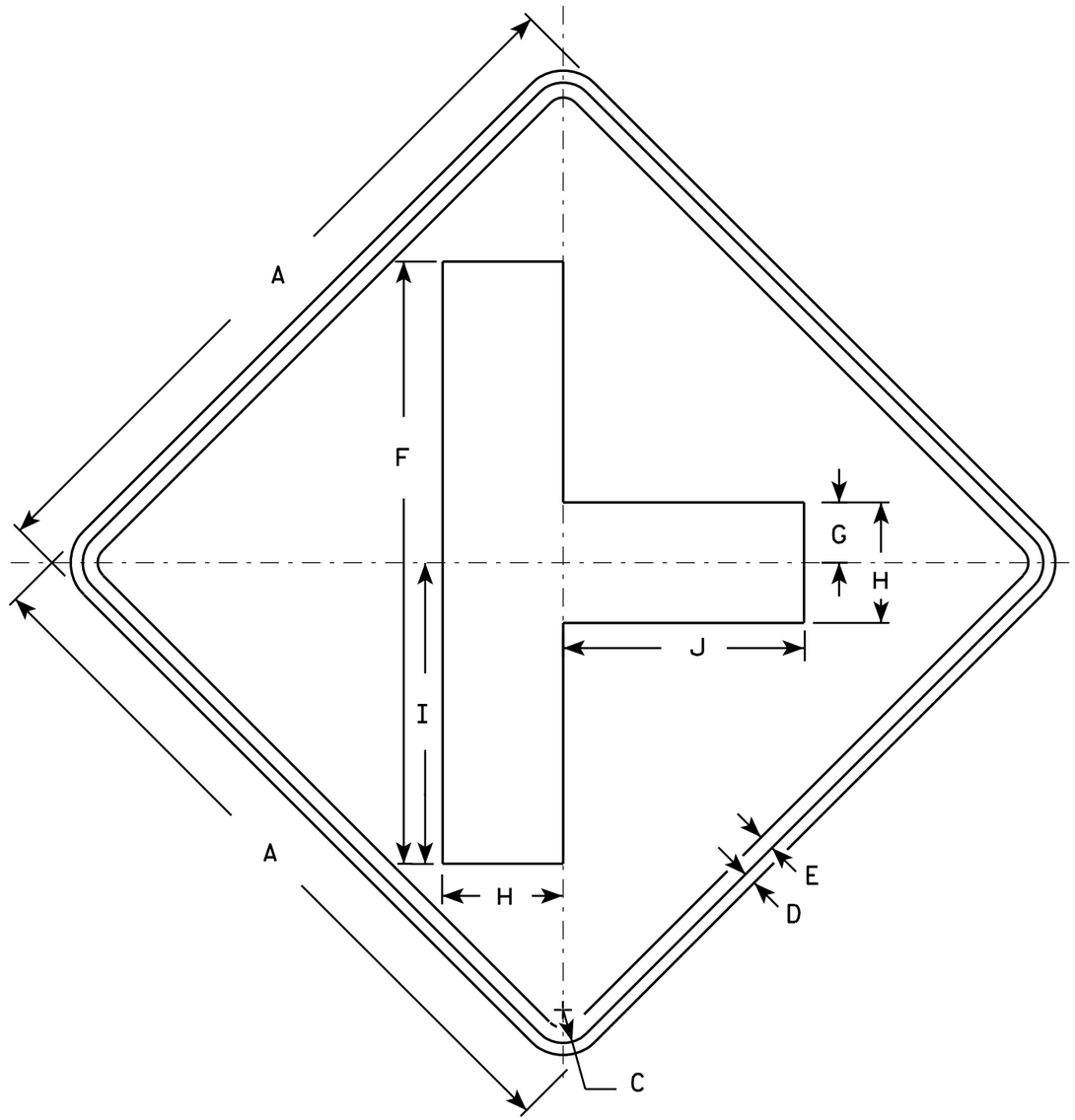
STANDARD SIGN
W1-6

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: 80



W2-2

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	20	2	4	10	8																	4.0
2S	30		1 3/8	1/2	5/8	25	2 1/2	5	12 1/2	10																	6.25
2M	30		1 3/8	1/2	5/8	25	2 1/2	5	12 1/2	10																	6.25
3	36		1 5/8	5/8	3/4	30	3	6	15	12																	9.0
4	48		2 1/4	3/4	1	40	4	8	20	16																	16.0
5																											

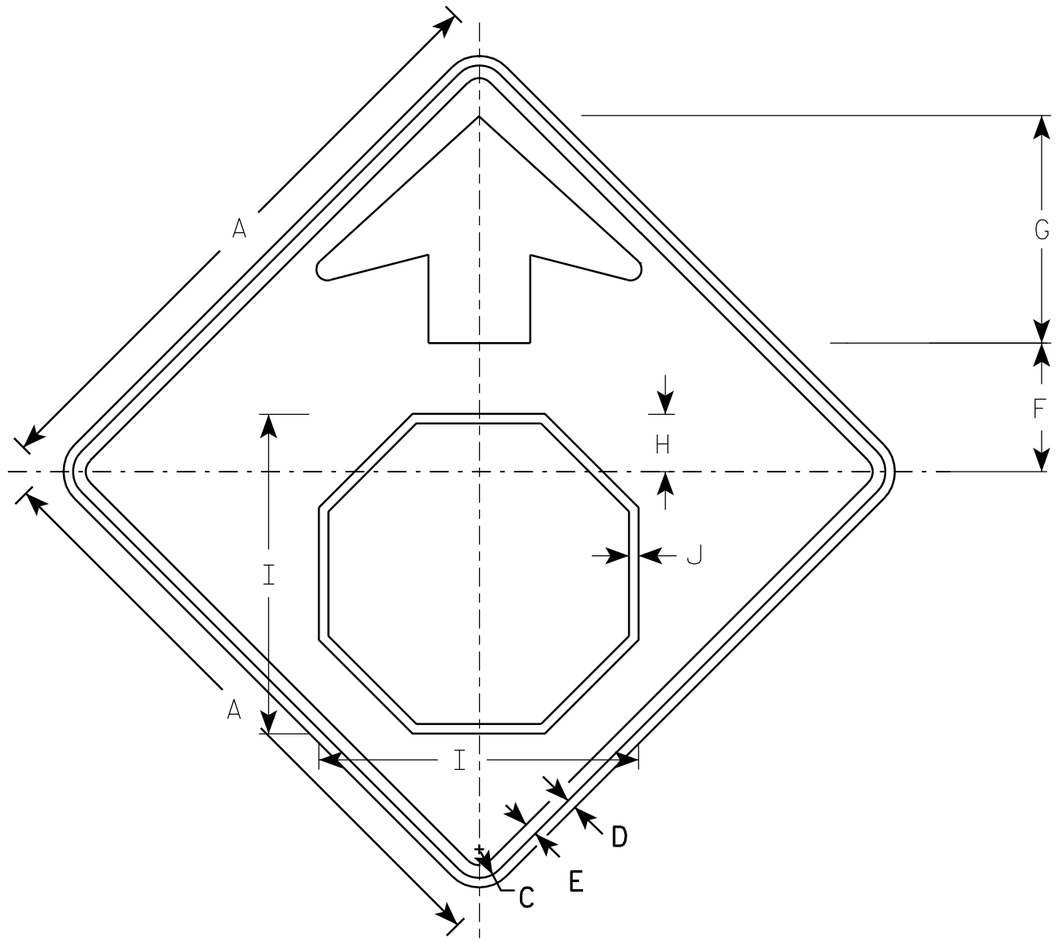
STANDARD SIGN
W2-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/29/12 PLATE NO. W2-2.6

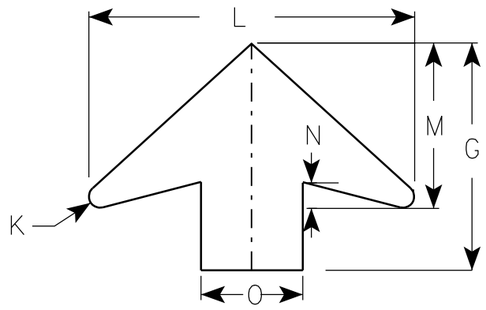
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 81 | E



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

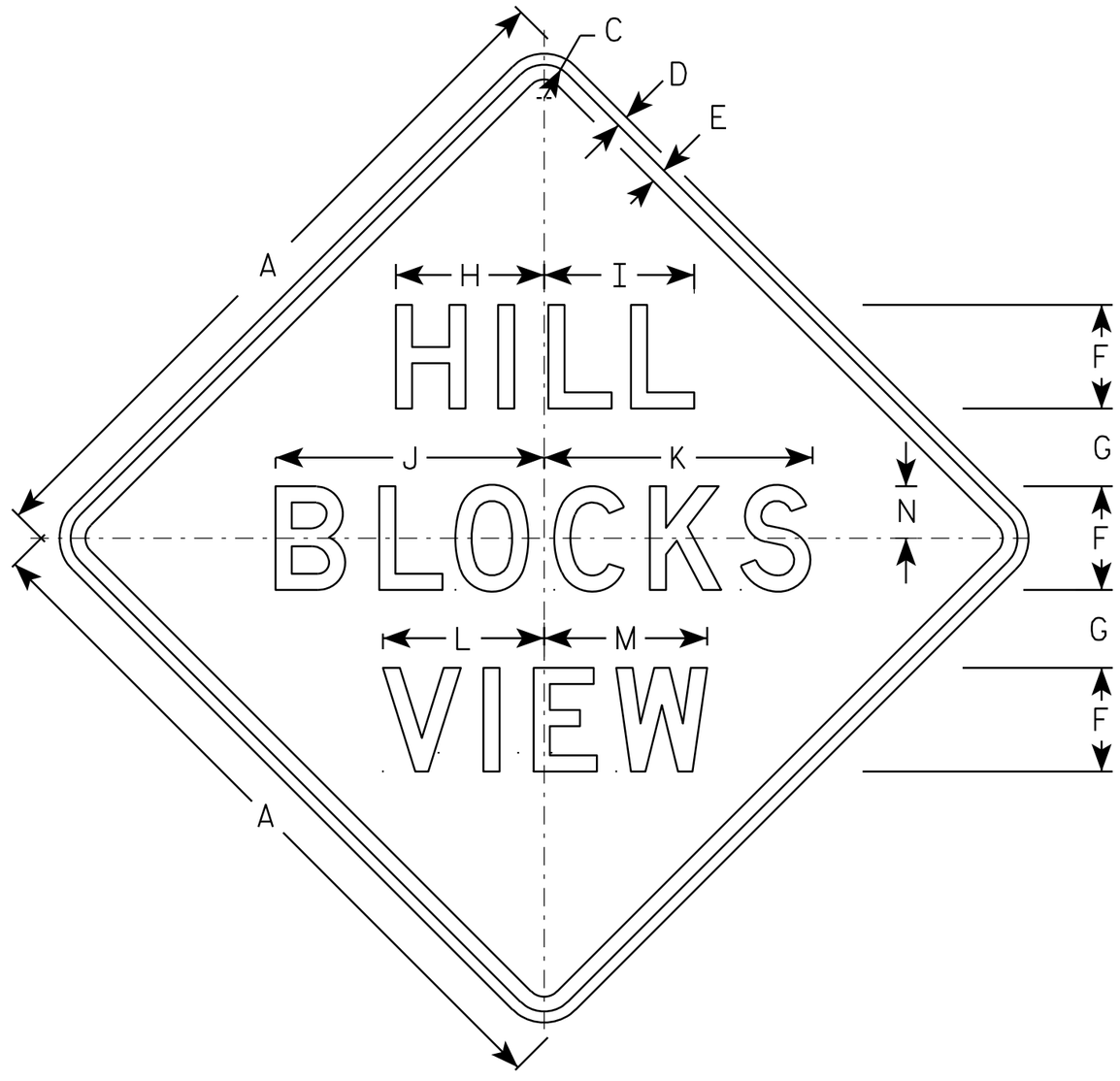
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:

SHEET NO: 82 E



W7-6

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. 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.

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	30		1 1/8	1/2	5/8	5	3 3/4	6	8 3/8	12 7/8	13	7 7/8	7 3/4	2 1/2													6.25
2M	36		1 5/8	5/8	3/4	6	4 1/2	7 3/4	10 3/4	16	16 1/8	9 7/8	9 7/8	3													9.0
3	36		1 5/8	5/8	3/4	6	4 1/2	7 3/4	10 3/4	16	16 1/8	9 7/8	9 7/8	3													9.0
4	36		1 5/8	5/8	3/4	6	4 1/2	7 3/4	10 3/4	16	16 1/8	9 7/8	9 7/8	3													9.0
5	48		2 1/4	3/4	1	7	5 1/4	10	10 1/8	18 1/8	18 1/8	10 7/8	11	3 1/2													16.0

STANDARD SIGN
W7-6

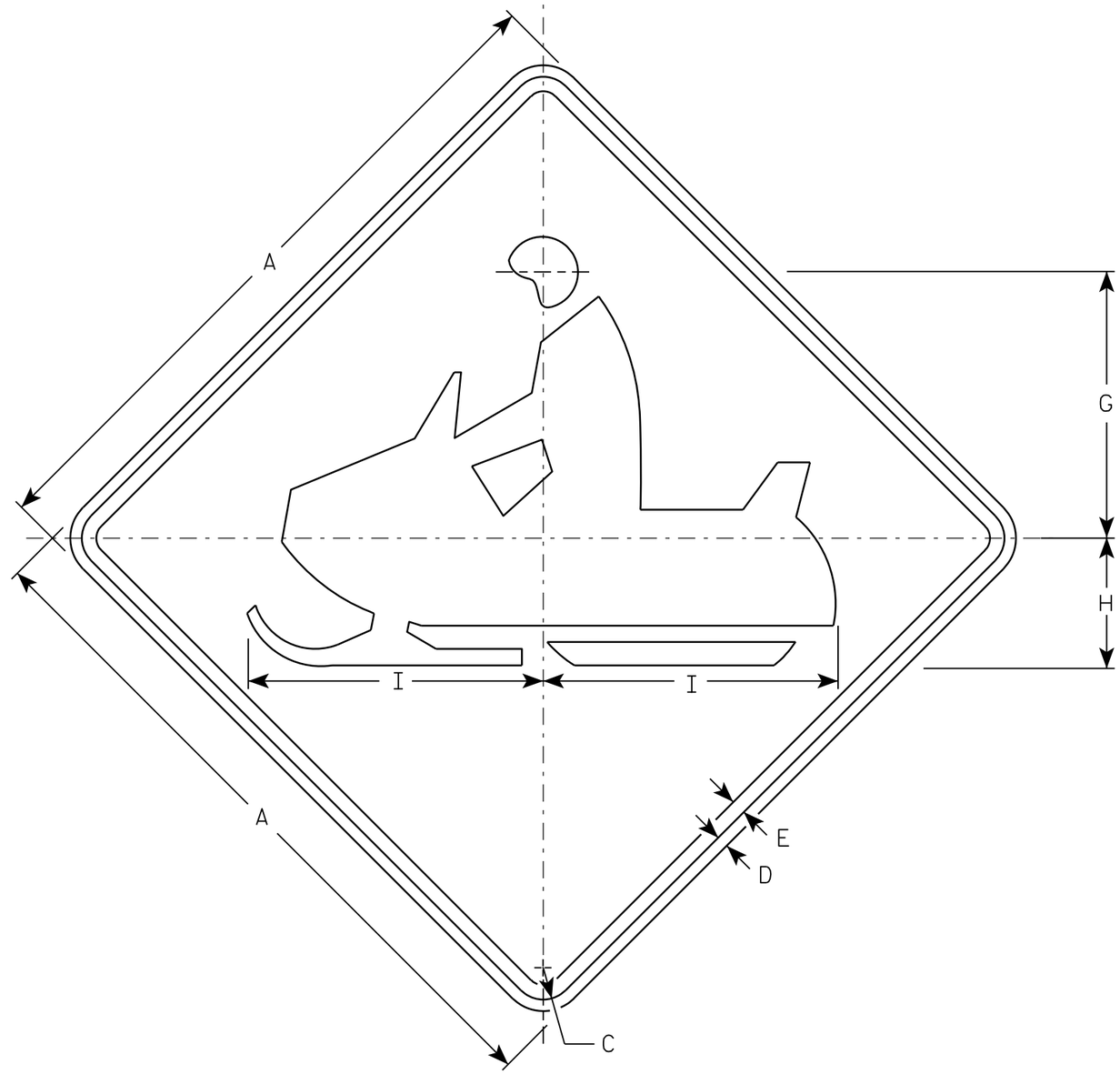
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W7-6.3

PROJECT NO:

SHEET NO: 83 E



W11-6

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	24		1 1/8	3/8	1/2		9 1/2	4 1/2	10 1/4																		4.0
2S	30		1 3/8	1/2	5/8		11 1/2	5 5/8	12 3/4																		6.25
2M	30		1 3/8	1/2	5/8		11 1/2	5 5/8	12 3/4																		6.25
3	36		1 5/8	5/8	3/4		14 1/8	6 3/4	15 1/4																		9.0
4	48		2 1/4	3/4	1		19	9	20 1/2																		16.0
5																											

STANDARD SIGN
W11-6

WISCONSIN DEPT OF TRANSPORTATION

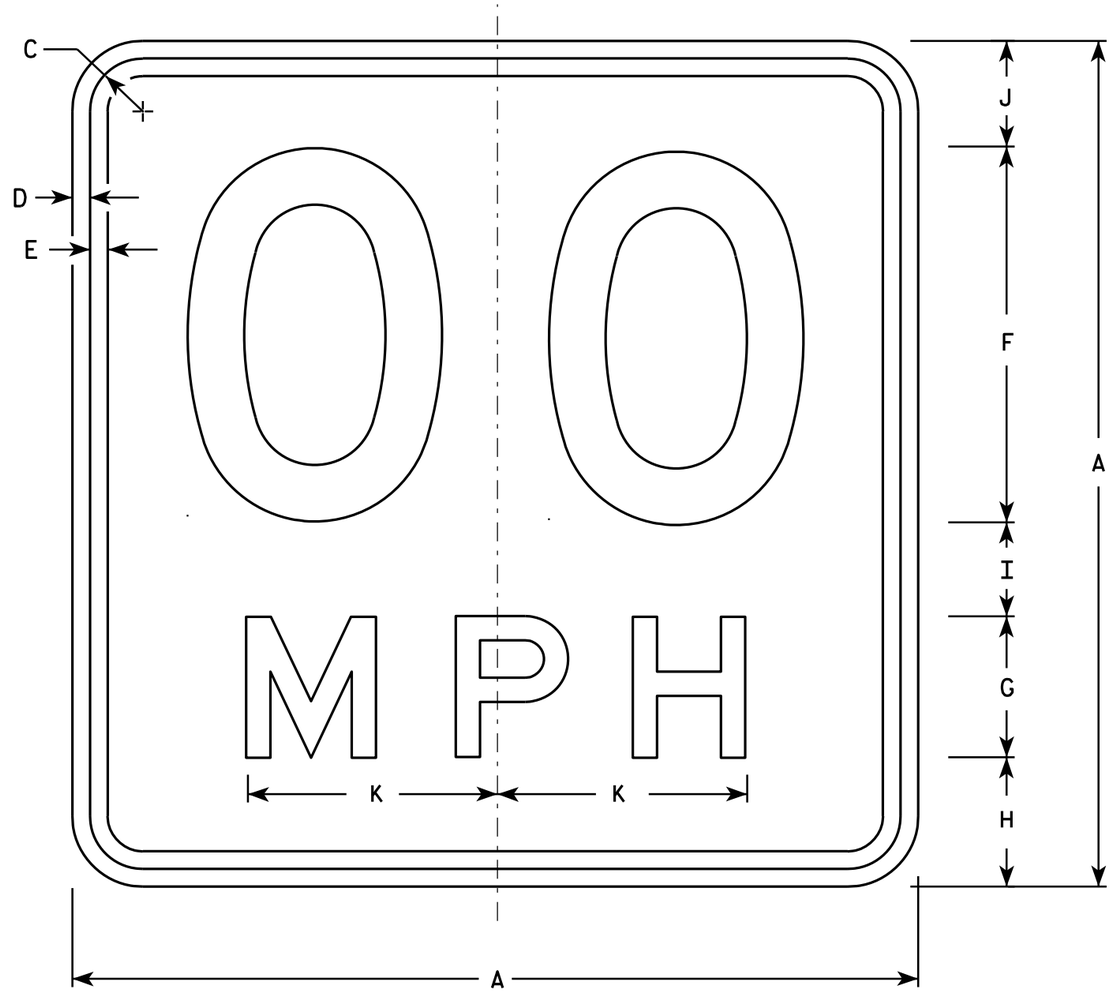
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W11-6.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 84	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W116.DGN PLOT DATE : 13-MAR-2013 12:57 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.954276:1.000000

WISDOT/CADDS SHEET 42



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

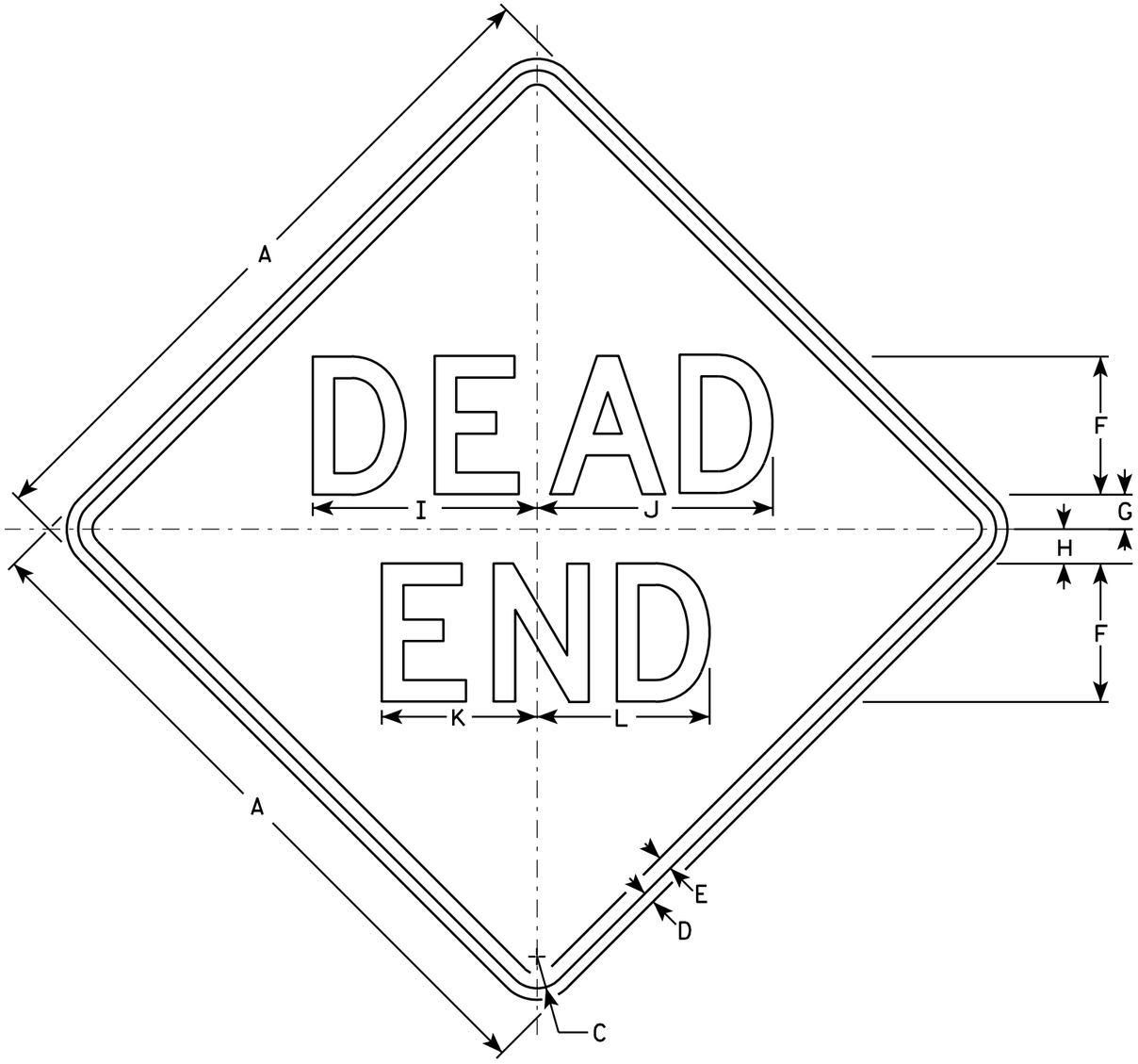
STANDARD SIGN
W13-1

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: 85 | E



W14-1

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 - 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.

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

STANDARD SIGN
W14-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W14-1.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 86	E

MAINLINE

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 3	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate Note 8
110+50.000	0	0.20	0.00	0.00	0.00	0	0	0
111+00.000	50	0.27	0.00	0.50	0.00	1	0	1
111+40.635	40	0.00	0.00	0.00	0.00	1	0	1
112+00.000	60	0.00	1.68	0.00	3.73	1	5	-4
113+00.000	100	4.78	6.70	17.70	24.81	18	36	-17
114+00.000	100	0.00	27.35	0.00	101.30	18	162	-144
115+00.000	100	0.00	27.73	0.00	102.70	18	291	-272
116+00.000	100	0.35	0.14	1.30	0.52	20	291	-272
117+00.000	100	0.00	1.42	0.00	5.26	20	298	-278
118+00.000	100	0.72	2.04	2.67	7.56	22	307	-285
119+00.000	100	0.00	0.15	0.00	0.56	22	308	-286
120+00.000	100	6.23	1.74	23.07	6.44	45	316	-271
121+00.000	100	0.22	12.57	0.81	46.56	46	374	-328
122+00.000	100	0.00	65.88	0.00	244.00	46	679	-633
122+50.139	59	0.00	41.01	0.00	89.61	46	791	-745
123+00.000	41	0.00	14.08	0.00	21.38	46	818	-772
124+00.000	100	0.00	1.04	0.00	3.85	46	823	-777
125+00.000	100	1.30	0.00	4.81	0.00	51	823	-772
126+00.000	100	0.00	1.27	0.00	4.70	51	829	-778
127+00.000	100	0.55	0.74	2.04	2.74	53	832	-779
128+00.000	100	0.00	2.67	0.00	9.89	53	845	-792
129+00.000	100	0.59	1.50	2.19	5.56	55	851	-796
130+00.000	100	0.00	0.91	0.00	3.37	55	856	-801
131+00.000	100	0.27	0.45	1.00	1.67	56	858	-802
132+00.000	100	0.36	0.70	1.33	2.59	57	861	-804
133+00.000	100	0.75	0.08	2.78	0.30	60	861	-801
134+00.000	100	0.30	0.84	1.11	3.11	61	865	-804
135+00.000	100	0.00	1.29	0.00	4.78	61	871	-810
136+00.000	100	0.44	5.28	1.63	19.56	63	896	-833
137+00.000	100	11.66	7.75	43.19	28.70	106	932	-825
138+00.000	100	9.59	4.09	35.52	15.15	142	950	-809
139+00.000	100	0.25	9.33	0.93	34.56	143	994	-851
140+00.000	100	8.37	0.44	31.00	1.63	174	996	-822
141+00.000	100	10.70	0.43	39.63	1.59	213	998	-785
142+00.000	100	0.00	4.36	0.00	16.15	213	1018	-805
143+00.000	100	0.82	4.17	3.04	15.44	216	1037	-821
144+00.000	100	0.00	2.32	0.00	8.59	216	1048	-832
145+00.000	100	16.08	0.00	59.56	0.00	276	1048	-772
146+00.000	100	11.24	4.38	41.63	16.22	317	1068	-751
147+00.000	100	0.22	4.81	0.81	17.81	318	1090	-772
148+00.000	100	5.08	0.40	18.81	1.48	337	1092	-755
149+00.000	100	8.57	0.40	31.74	1.48	369	1094	-725
150+00.000	100	6.09	0.07	22.56	0.26	391	1095	-703
151+00.000	100	0.66	2.44	2.44	9.04	394	1106	-712
152+00.000	100	0.05	0.76	0.19	2.81	394	1109	-715
153+00.000	100	6.70	1.74	24.81	6.44	419	1117	-699
154+00.000	100	0.59	12.07	2.19	44.70	421	1173	-752

MAINLINE

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 3	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate Note 8
155+00.000	100	25.81	0.00	95.59	0.00	517	1173	-657
156+00.000	100	0.30	0.00	1.11	0.00	518	1173	-656
157+00.000	100	0.15	1.31	0.56	4.85	518	1179	-661
158+00.000	100	0.00	1.55	0.00	5.74	518	1187	-668
159+00.000	100	0.40	0.87	1.48	3.22	520	1191	-671
160+00.000	100	0.00	2.54	0.00	9.41	520	1202	-683
160+61.712	62	0.22	0.00	0.51	0.00	520	1202	-682
161+00.000	38	0.39	8.33	0.55	11.72	521	1217	-696
162+00.000	100	0.22	7.18	0.81	26.59	522	1250	-729
163+00.000	100	0.00	1.31	0.00	4.85	522	1256	-735
164+00.000	100	5.88	0.03	21.78	0.11	543	1256	-713
165+00.000	100	12.55	0.00	46.48	0.00	590	1256	-667
166+00.000	100	45.39	0.00	168.11	0.00	758	1256	-498
167+00.000	100	29.47	0.00	109.15	0.00	867	1256	-389
168+00.000	100	6.34	0.57	23.48	2.11	891	1259	-368
169+00.000	100	0.00	9.57	0.00	35.44	891	1303	-413
170+00.000	100	0.62	54.69	2.30	202.56	893	1557	-664
171+00.000	100	0.47	12.73	1.74	47.15	895	1615	-721
172+00.000	100	0.00	18.22	0.00	67.48	895	1700	-805
173+00.000	100	0.78	2.72	2.89	10.07	898	1712	-815
174+00.000	100	0.00	6.81	0.00	25.22	898	1744	-846
175+00.000	100	0.00	36.24	0.00	134.22	898	1912	-1014
176+00.000	100	0.00	91.16	0.00	337.63	898	2334	-1436
177+00.000	100	0.00	26.91	0.00	99.67	898	2458	-1561
178+00.000	100	0.00	3.01	0.00	11.15	898	2472	-1575
179+00.000	100	4.55	1.05	16.85	3.89	914	2477	-1563
180+00.000	100	52.07	0.00	192.85	0.00	1107	2477	-1370
181+00.000	100	17.36	80.72	64.30	298.96	1172	2851	-1679
182+00.000	100	0.26	14.23	0.96	52.70	1172	2917	-1744
183+00.000	100	0.26	4.52	0.96	16.74	1173	2938	-1764
184+00.000	100	0.00	2.19	0.00	8.11	1173	2948	-1774
185+00.000	100	0.85	0.01	3.15	0.04	1177	2948	-1771
186+00.000	100	0.00	1.06	0.00	3.93	1177	2953	-1776
187+00.000	100	0.87	0.00	3.22	0.00	1180	2953	-1773
188+00.000	100	0.51	1.55	1.89	5.74	1182	2960	-1778
189+00.000	100	0.00	0.43	0.00	1.59	1182	2962	-1780
190+00.000	100	1.12	0.00	4.15	0.00	1186	2962	-1776
191+00.000	100	11.69	0.30	43.30	1.11	1229	2963	-1734
192+00.000	100	0.00	3.62	0.00	13.41	1229	2980	-1751
193+00.000	100	0.23	12.92	0.85	47.85	1230	3040	-1810
194+00.000	100	1.09	0.26	4.04	0.96	1234	3041	-1807
195+00.000	100	0.83	0.00	3.07	0.00	1237	3041	-1804
196+00.000	100	1.48	0.00	5.48	0.00	1243	3041	-1798
197+00.000	100	8.33	0.00	30.85	0.00	1273	3041	-1768
198+00.000	100	1.05	0.00	3.89	0.00	1277	3041	-1764
199+00.000	100	1.02	0.00	3.78	0.00	1281	3041	-1760
200+00.000	100	0.16	0.07	0.59	0.26	1282	3041	-1760

MAINLINE

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 3	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate Note 8
201+00.000	100	10.75	0.00	39.81	0.00	1322	3041	-1720
202+00.000	100	7.90	0.00	29.26	0.00	1351	3041	-1691
203+00.000	100	0.16	1.55	0.59	5.74	1351	3049	-1697
204+00.000	100	8.59	3.37	31.81	12.48	1383	3064	-1681
205+00.000	100	1.22	6.09	4.52	22.56	1388	3092	-1705
206+00.000	100	0.98	7.54	3.63	27.93	1391	3127	-1736
207+00.000	100	0.70	10.41	2.59	38.56	1394	3175	-1782
208+00.000	100	0.22	10.74	0.81	39.78	1395	3225	-1830
209+00.000	100	0.83	5.82	3.07	21.56	1398	3252	-1854
210+00.000	100	0.04	10.72	0.15	39.70	1398	3302	-1904
211+00.000	100	0.00	5.54	0.00	20.52	1398	3327	-1929
212+00.000	100	0.00	1.73	0.00	6.41	1398	3335	-1937
213+00.000	100	0.00	3.44	0.00	12.74	1398	3351	-1953
214+00.000	100	0.68	11.63	2.52	43.07	1400	3405	-2005
215+00.000	100	0.31	7.44	1.15	27.56	1402	3440	-2038
216+00.000	100	0.10	4.80	0.37	17.78	1402	3462	-2060
217+00.000	100	9.22	0.22	34.15	0.81	1436	3463	-2027
218+00.000	100	2.41	3.27	8.93	12.11	1445	3478	-2033
219+00.000	100	41.42	0.98	153.41	3.63	1598	3483	-1884
220+00.000	100	55.11	0.00	204.11	0.00	1803	3483	-1680
221+00.000	100	67.32	0.00	249.33	0.00	2052	3483	-1431
222+00.000	100	81.52	2.08	301.93	7.70	2354	3492	-1138
223+00.000	100	25.92	15.63	96.00	57.89	2450	3565	-1115
223+07.045	7	22.70	21.08	5.89	5.47	2456	3571	-1116
223+50.000	43	0.00	0.00	0.00	0.00	2456	3571	-1116
223+64.032	14	0.00	0.00	0.00	0.00	2456	3571	-1116

TOTAL 2456 2857

SOUTH GARTH LAKE

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 3	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate Note 8
18+50	0	27.92	0.00	0.00	0.00	0	0	0
19+00	50	46.69	0.00	86.46	0.00	86	0	86
19+42	42	0.00	0.00	0.00	0.00	86	0	86

TOTAL 86 0

SANDY BEACH

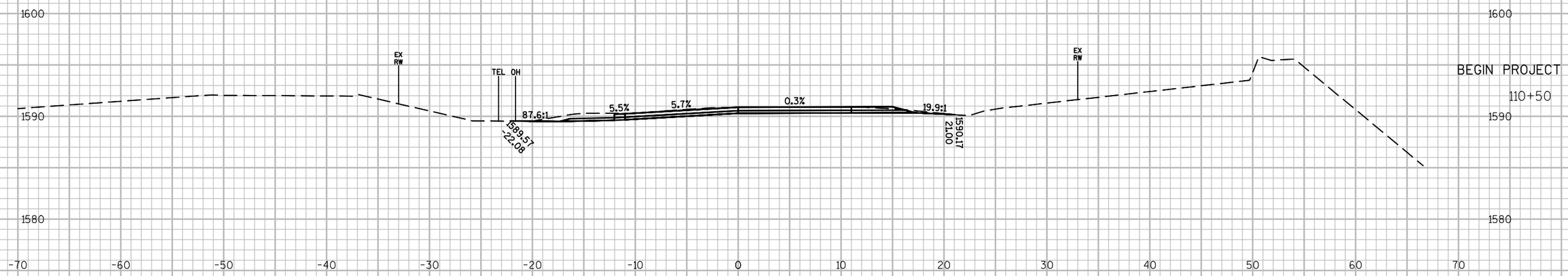
STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 3	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate Note 8
17+63	0	41.91	0.12	0.00	0.00	0	0	0
18+00	37	28.38	8.65	38.89	11.85	39	15	24
19+00	100	0.67	32.85	2.48	121.67	41	167	-126
19+50	50	11.71	57.88	21.69	107.19	63	301	-238

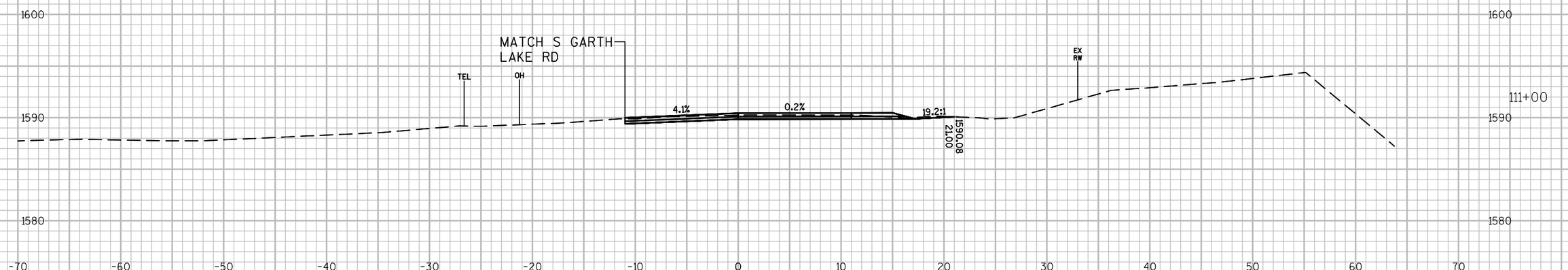
TOTAL 63 241

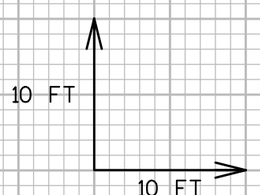
DUGOUT LAKE

STATION	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 3	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate Note 8
10+39	0	0.00	0.00	0.00	0.00	0	0	0
11+00	61	14.26	0.96	32.22	2.17	32	3	30
11+17	17	19.79	0.00	12.46	0.00	45	3	42

TOTALS 45 2





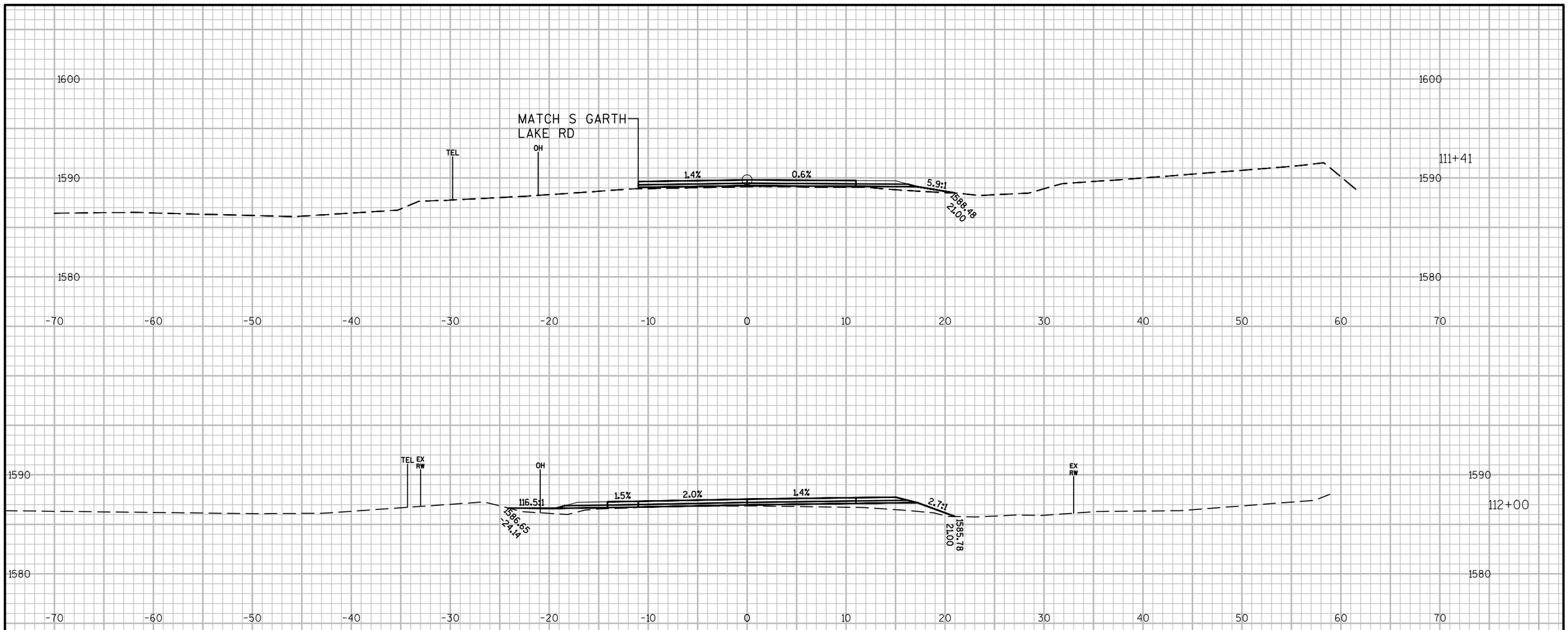


9

9

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 89	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (67)
PLOT DATE : 7/6/2017 12:15 PM
PLOT BY : BOBBY JONES
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49


1600
1590
1580
MATCH S GARTH
LAKE RD
TEL
OH
1.4%
0.6%
5.9:1
1588.48
21.00
111+41
-70
-60
-50
-40
-30
-20
-10
0
10
20
30
40
50
60
70
TEL
EX
RW
OH
116.51
1.5%
2.0%
1.4%
2.7:1
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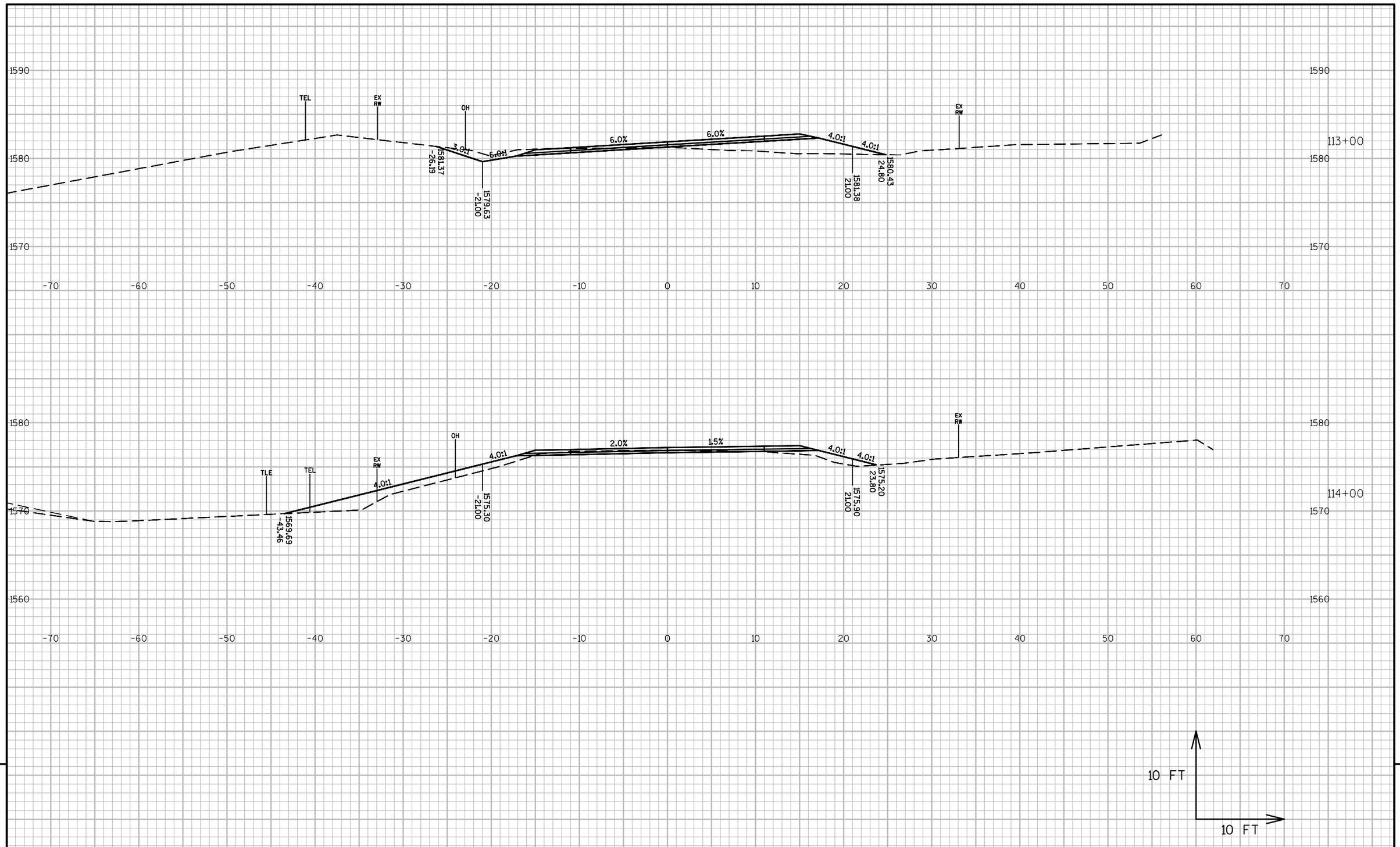
21.00
EX
RW
112+00
10 FT
10 FT

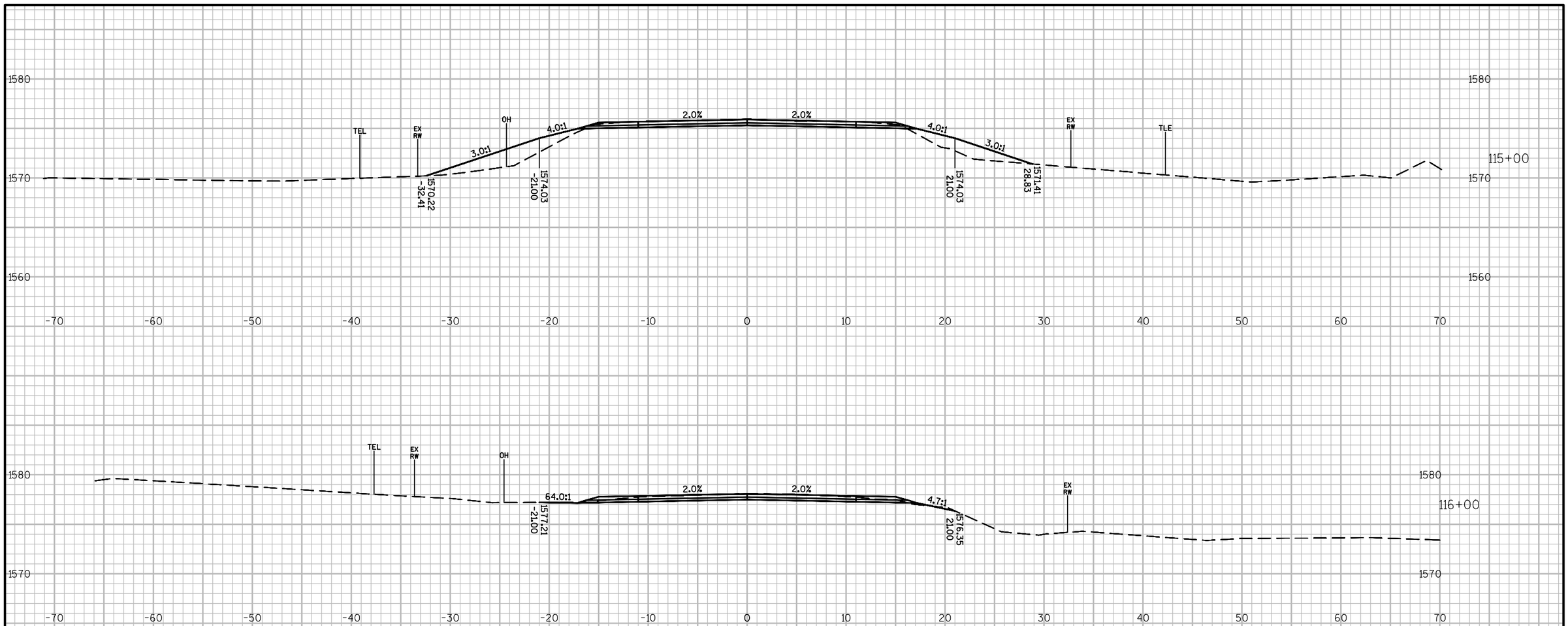


9

9

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 91	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (69)
PLOT DATE : 4/28/2017 3:51 PM
PLOT BY : JESSICA LEWIS, PE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



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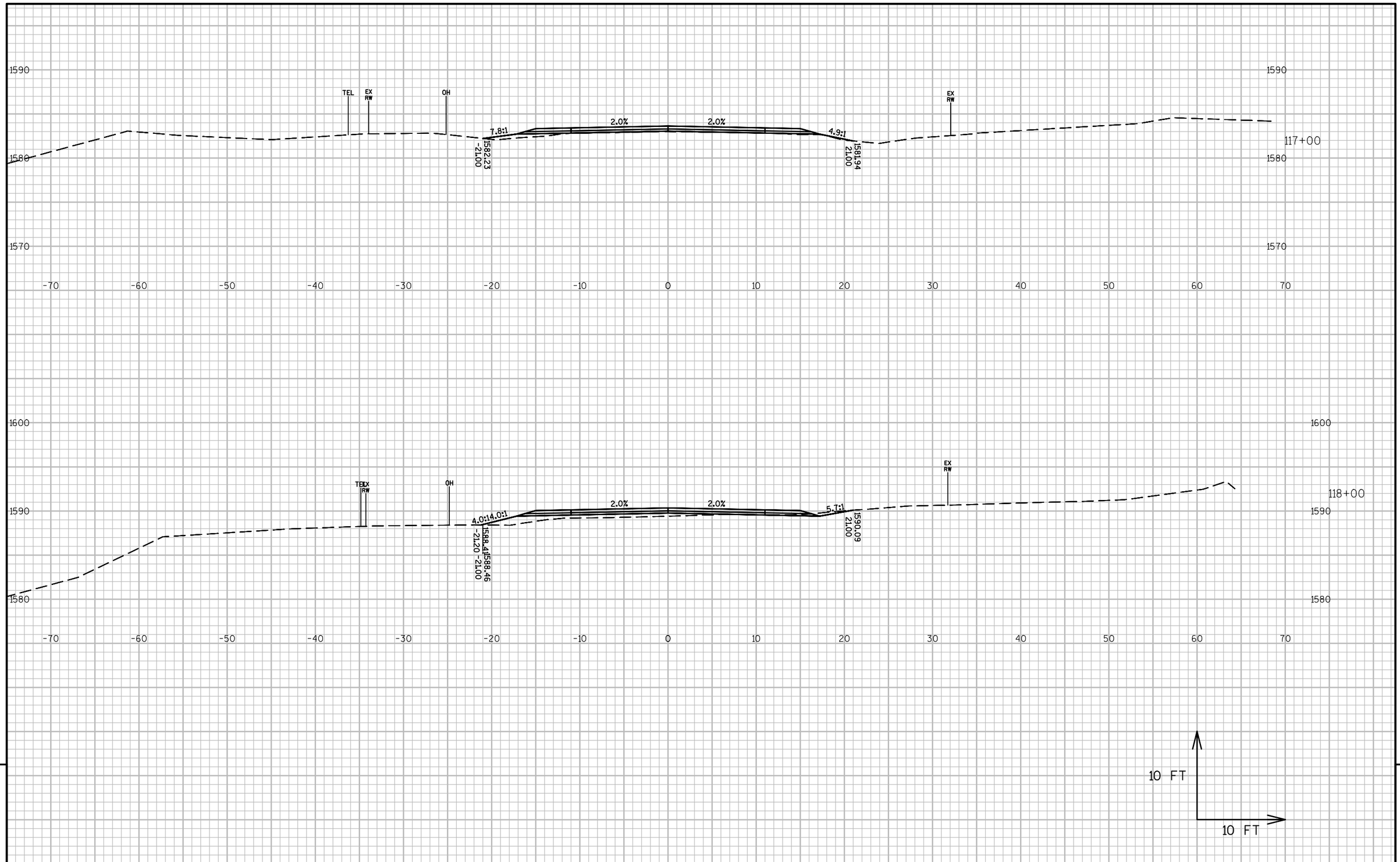
9

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 92	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (70)

PLOT DATE : 4/28/2017 3:51 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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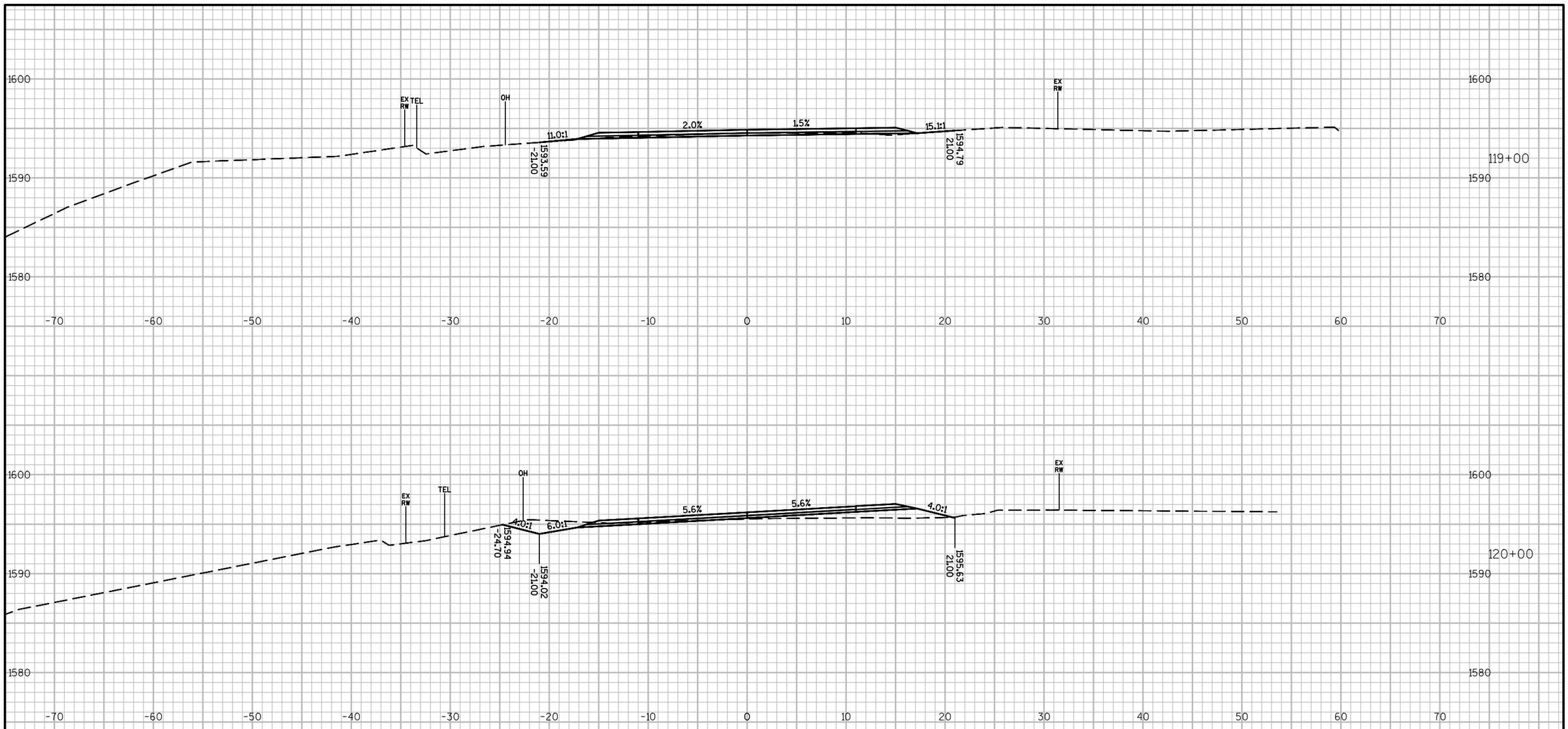
9

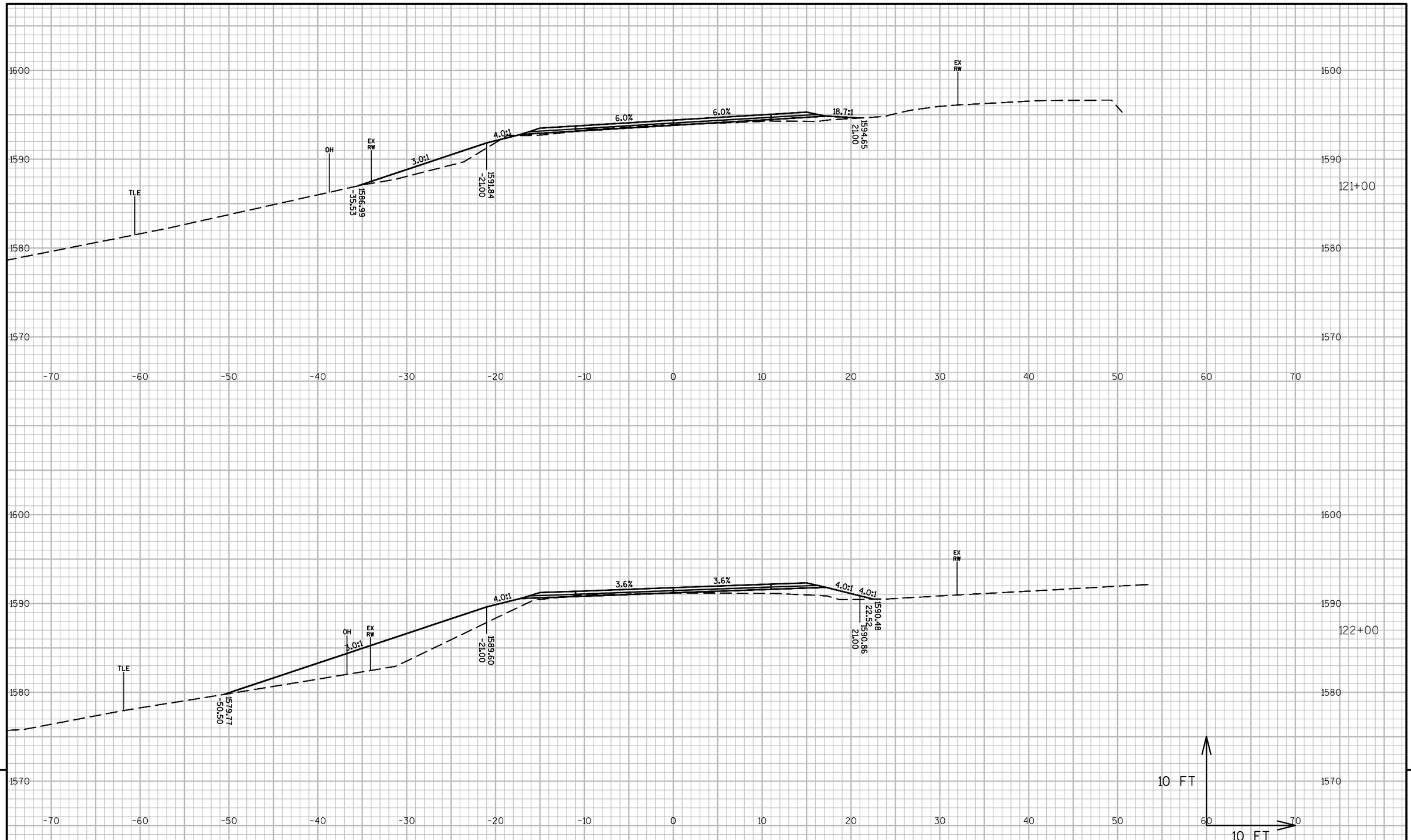
PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 93	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (71)

PLOT DATE : 4/28/2017 3:51 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 94	E



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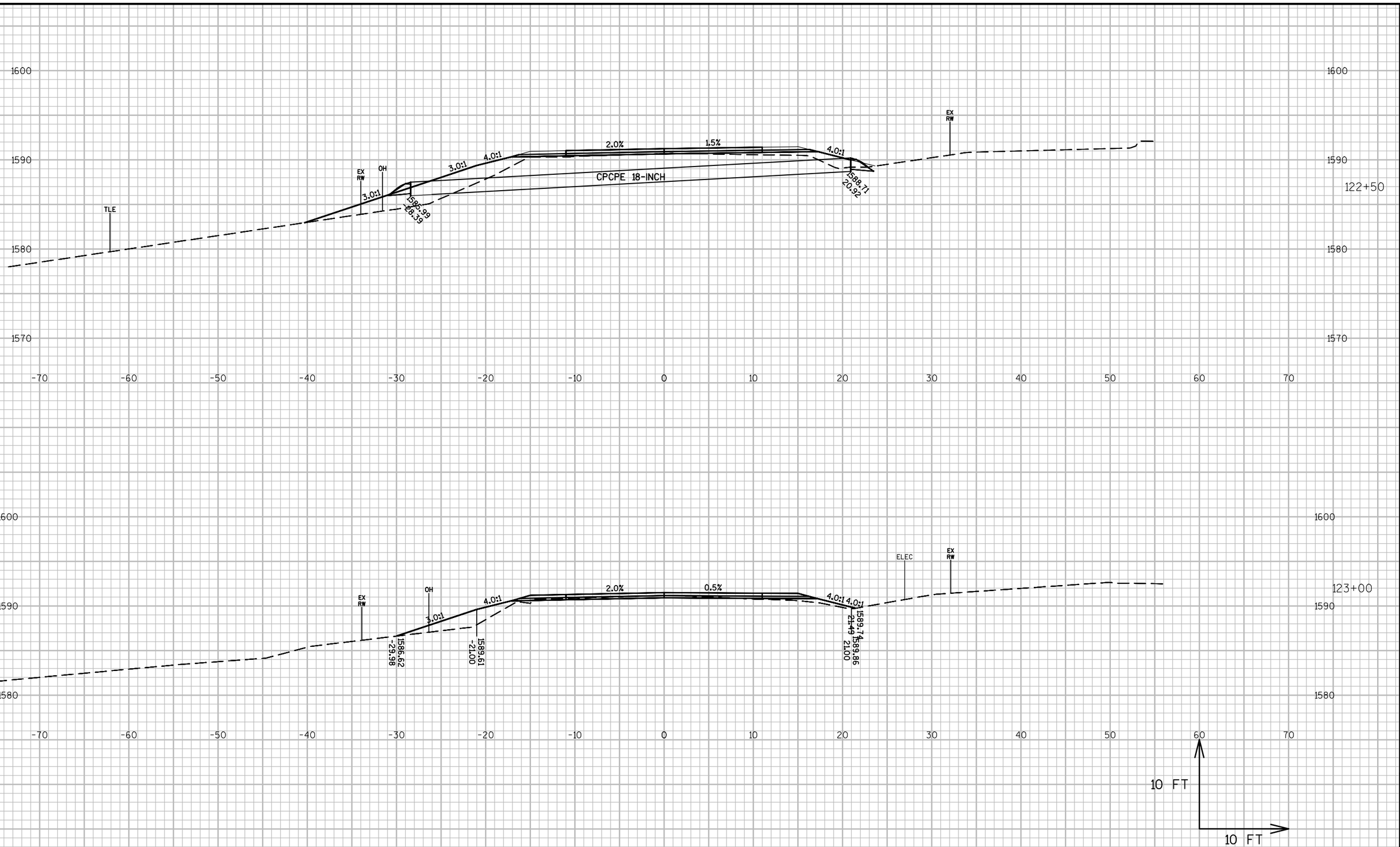
PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 95	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (73)

PLOT DATE : 4/28/2017 3:52 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:10 FT



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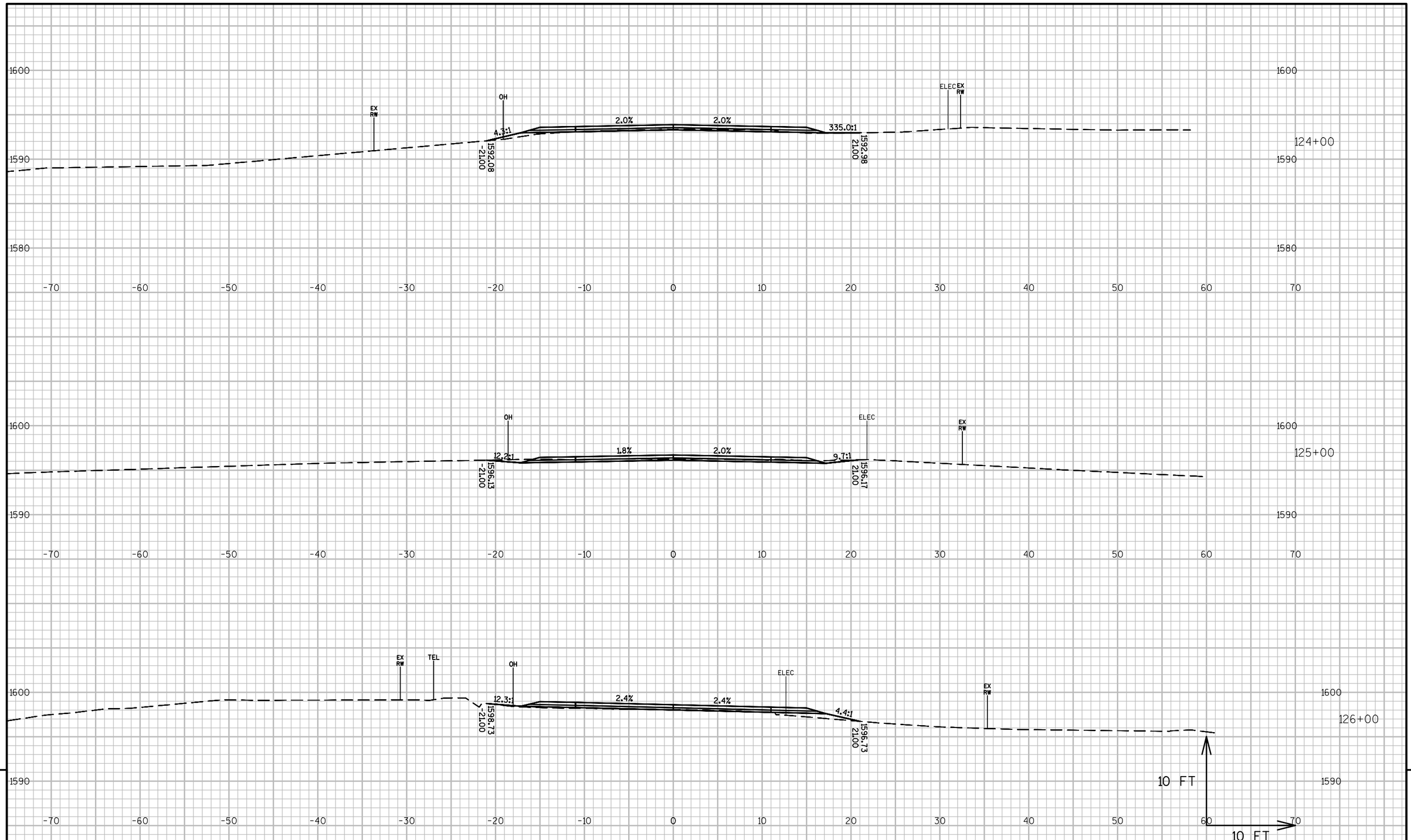
9

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 96	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (74)

PLOT DATE : 4/28/2017 3:52 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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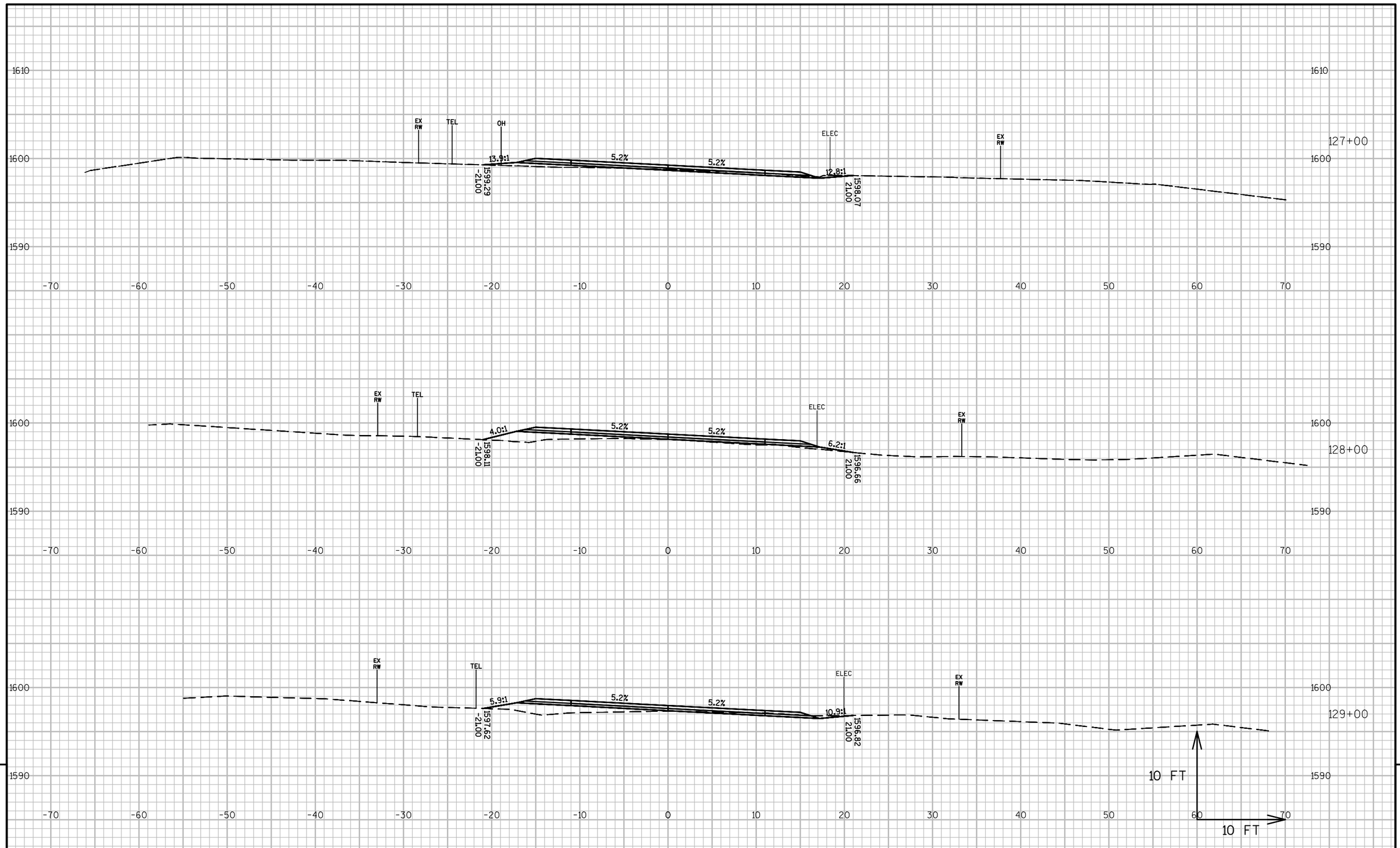
9

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 97	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (75)

PLOT DATE : 4/28/2017 3:52 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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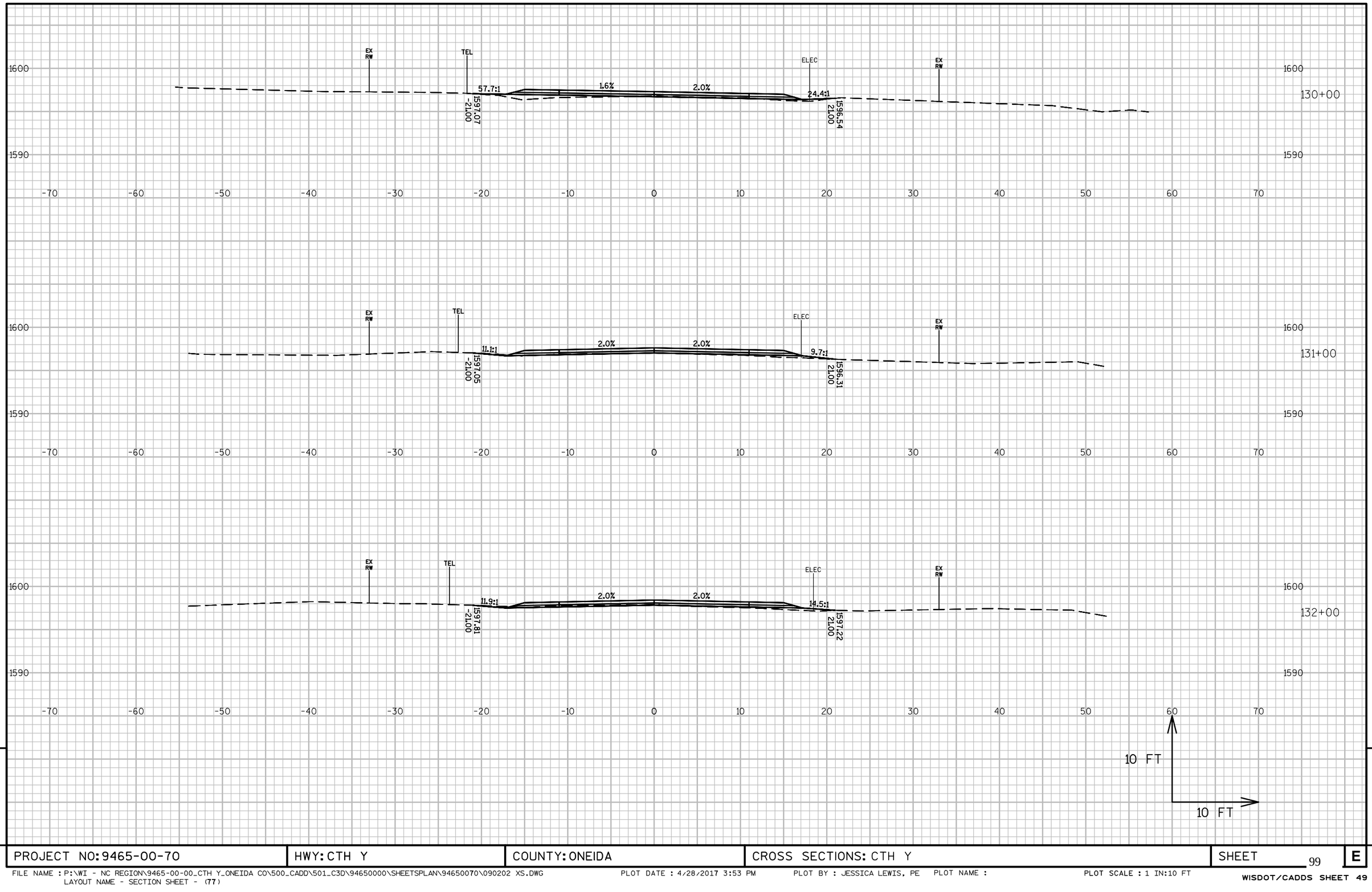
9

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 98	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (76)

PLOT DATE : 4/28/2017 3:53 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:10 FT

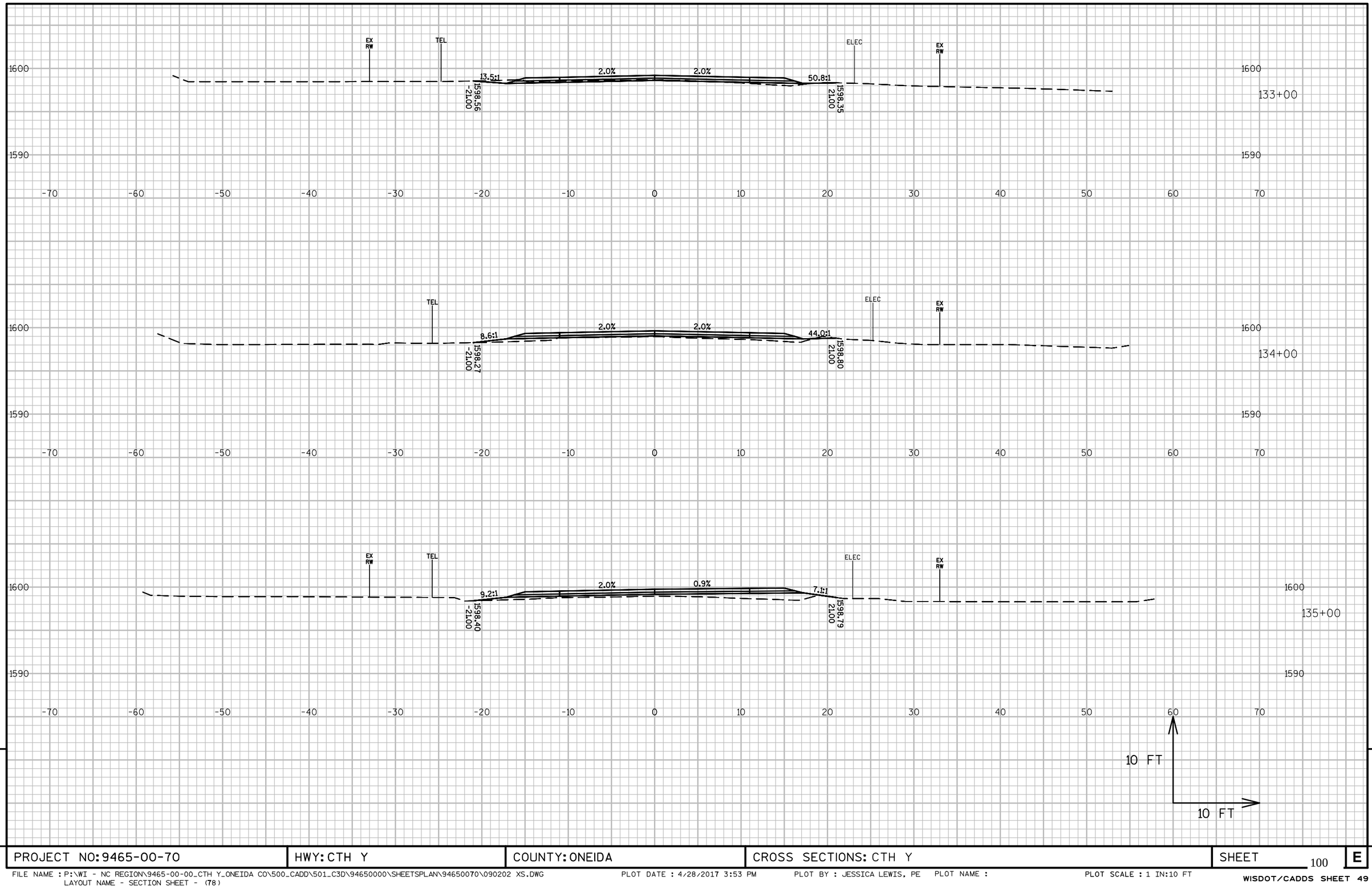


9

9

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 99	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (77)
PLOT DATE : 4/28/2017 3:53 PM
PLOT BY : JESSICA LEWIS, PE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT



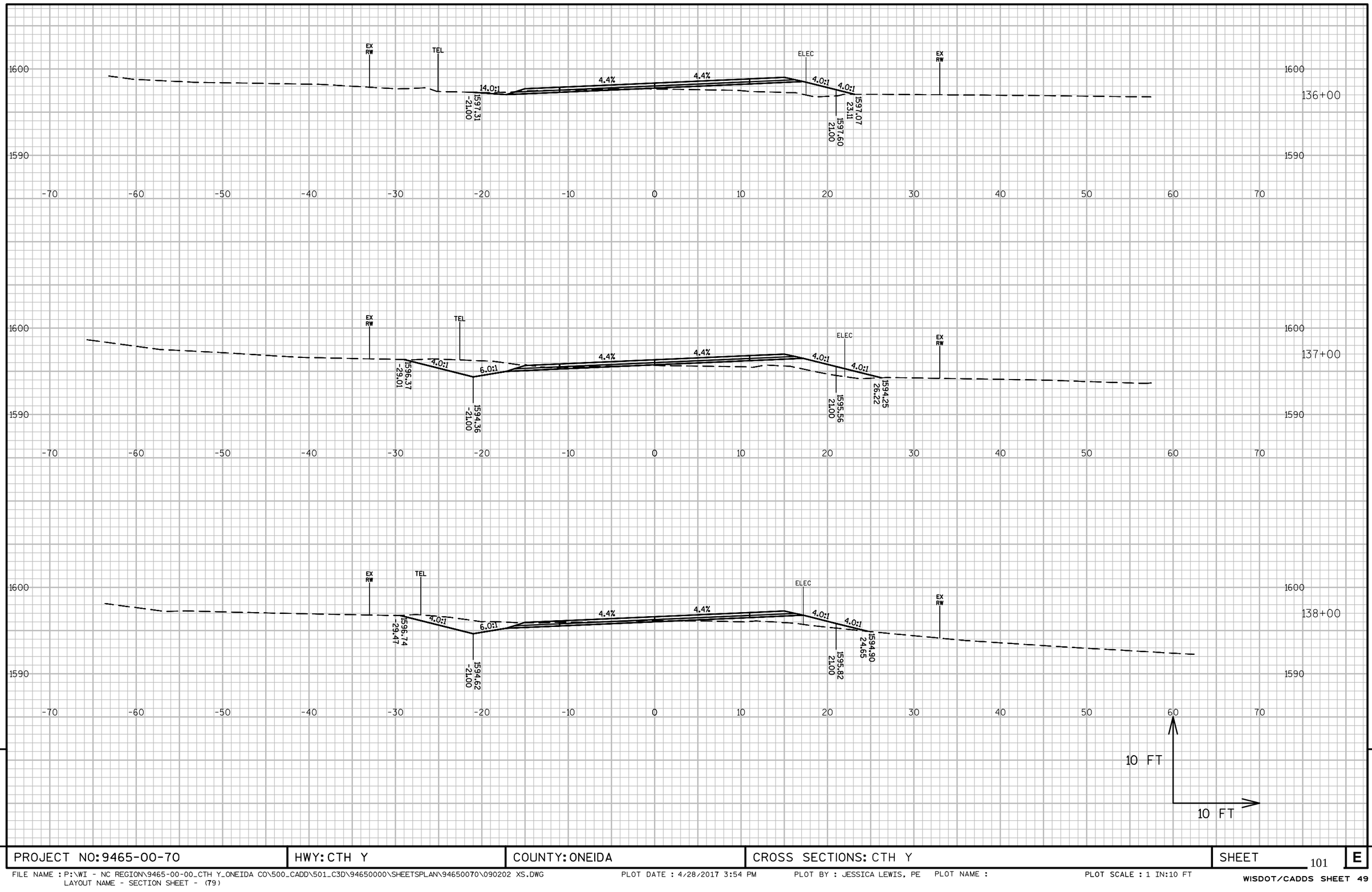
9

9

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 100	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (78)

PLOT DATE : 4/28/2017 3:53 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:10 FT



9

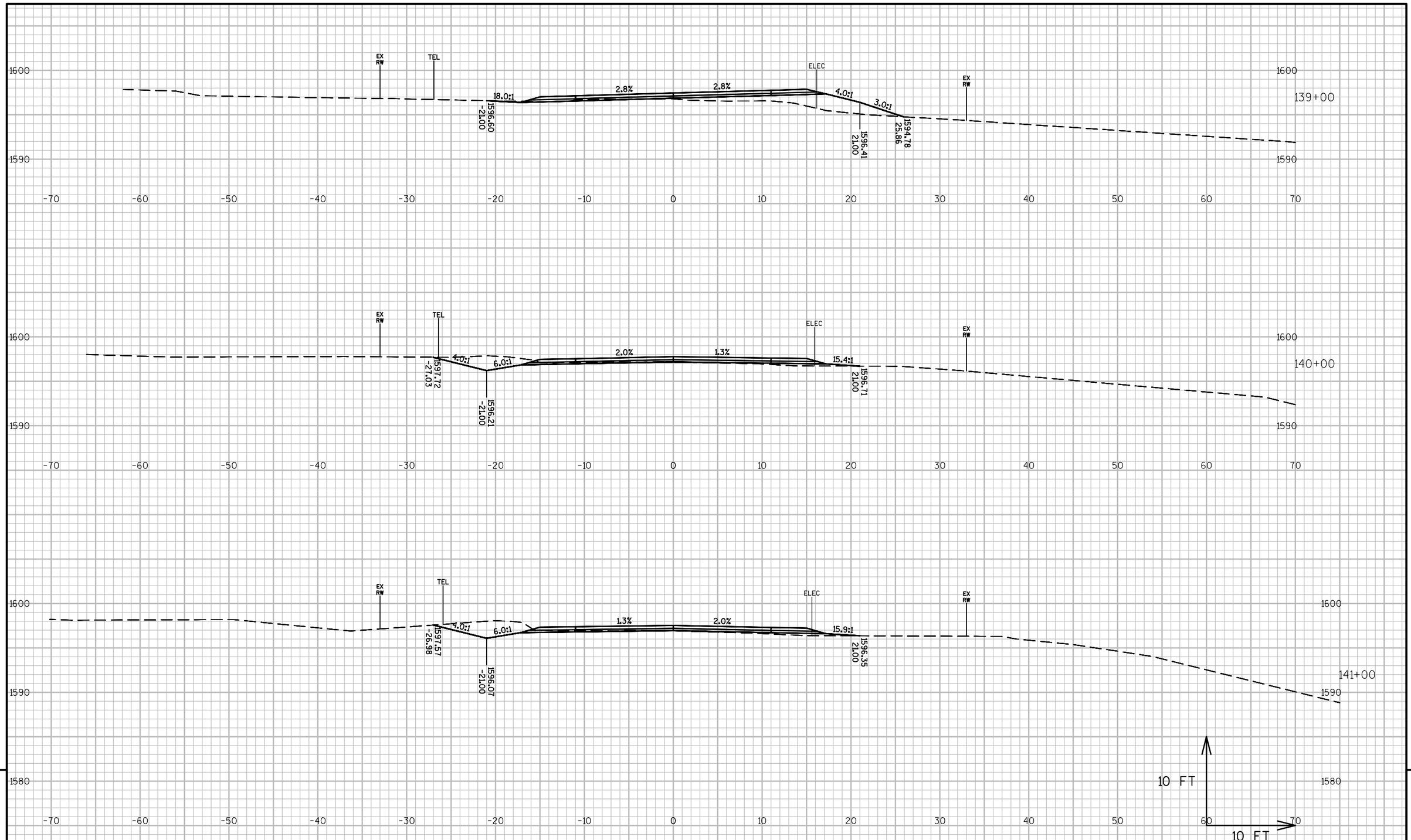
9

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 101	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (79)

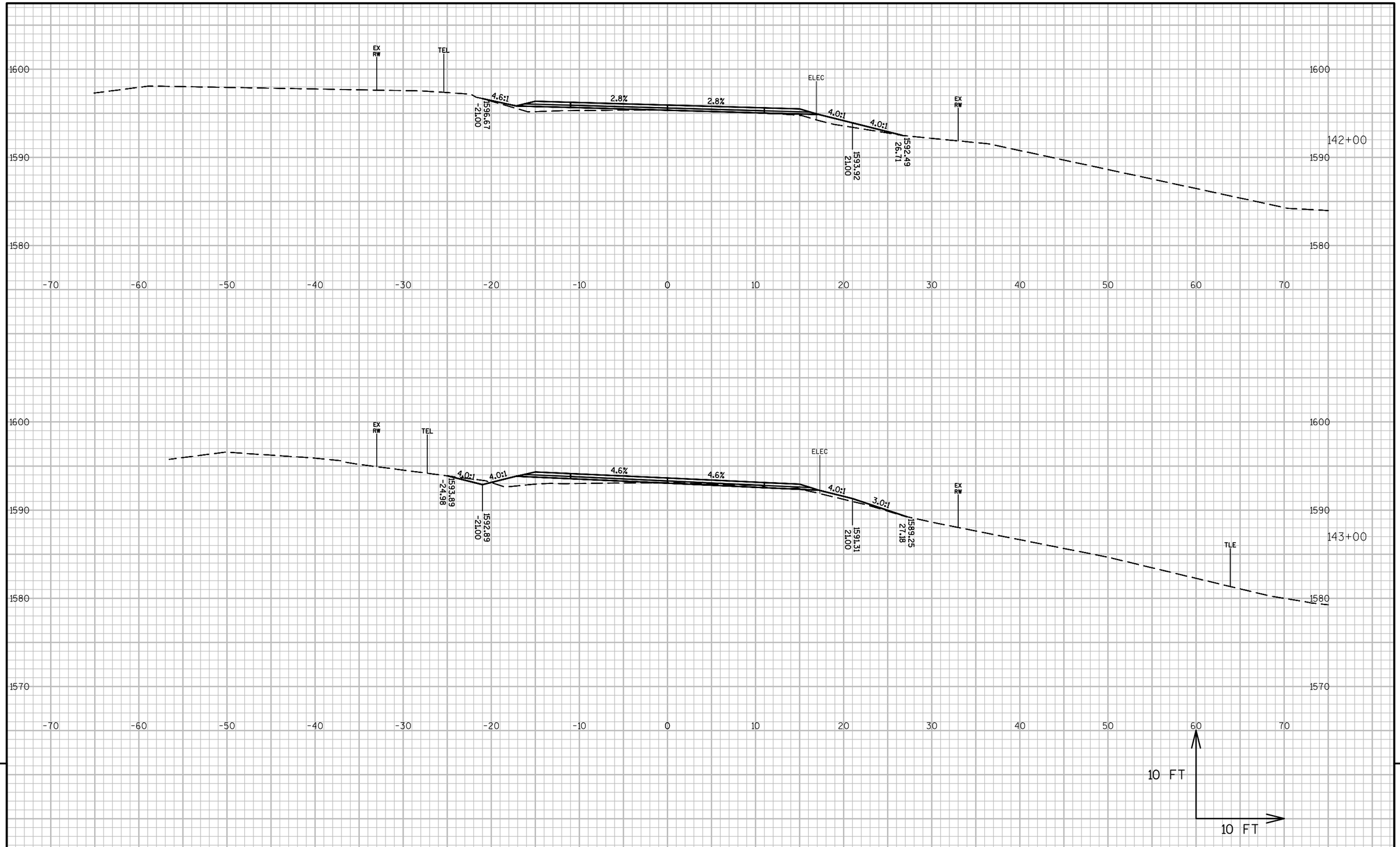
PLOT DATE : 4/28/2017 3:54 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9 9

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 102	E



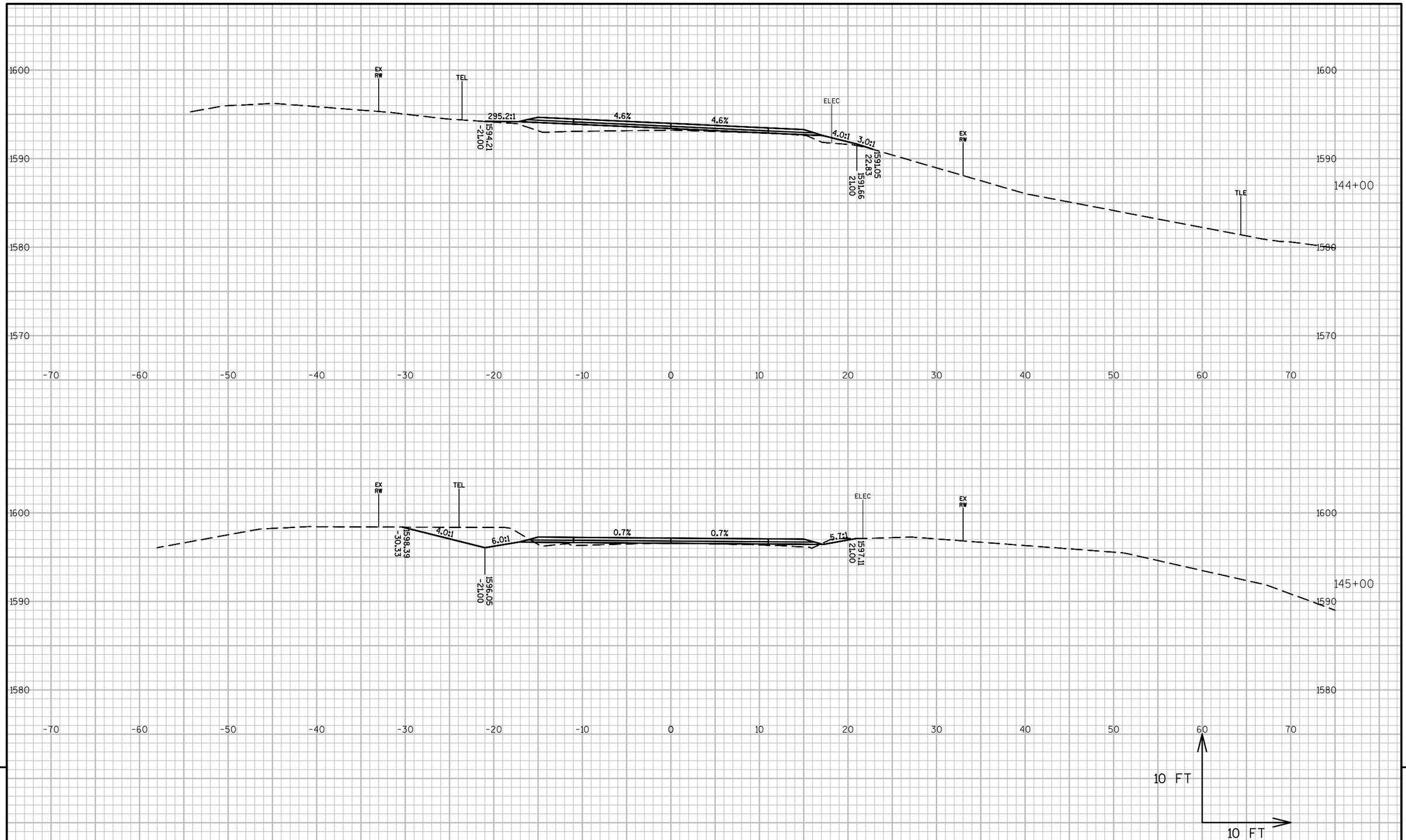
9

9

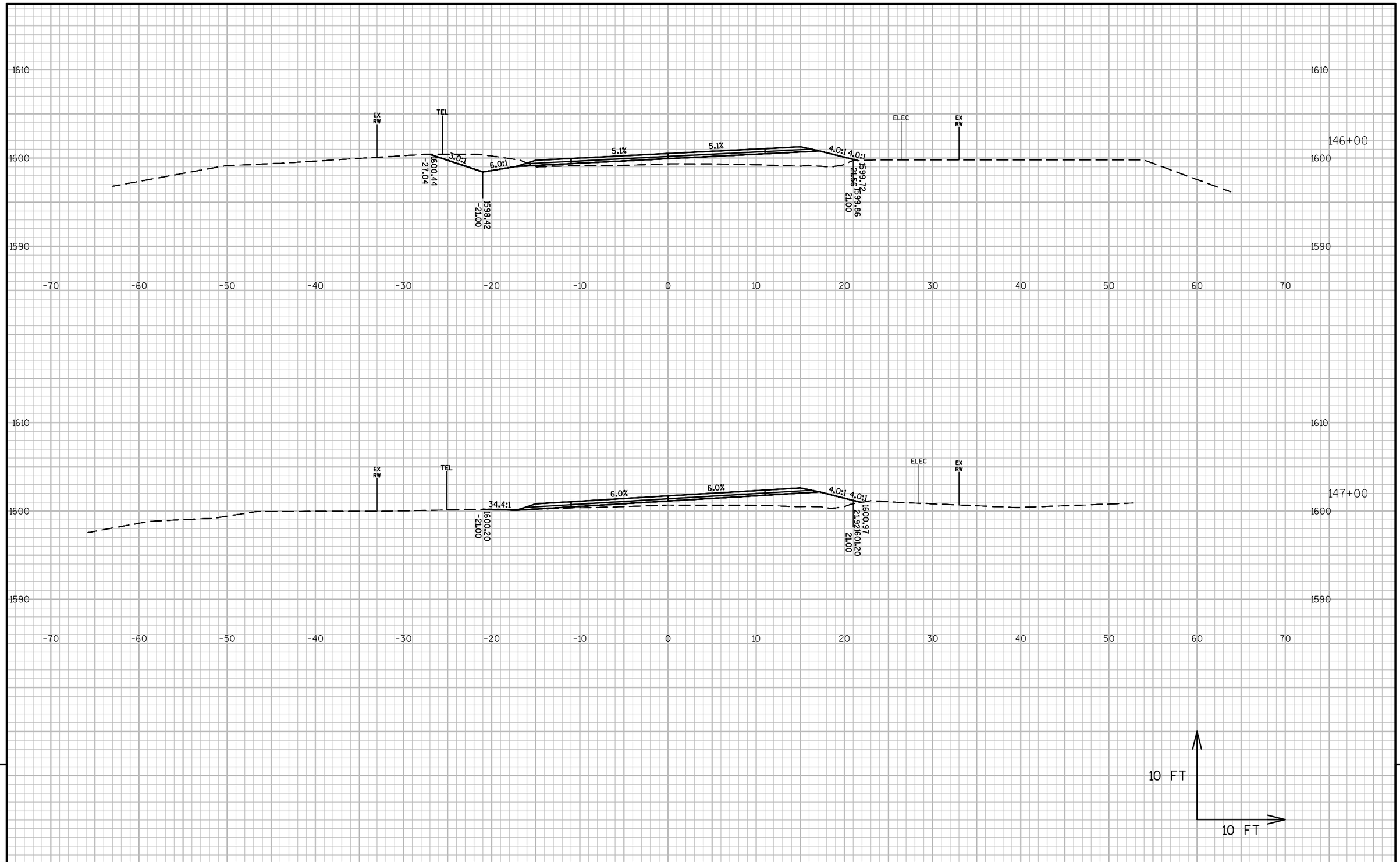
PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 103	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (81)

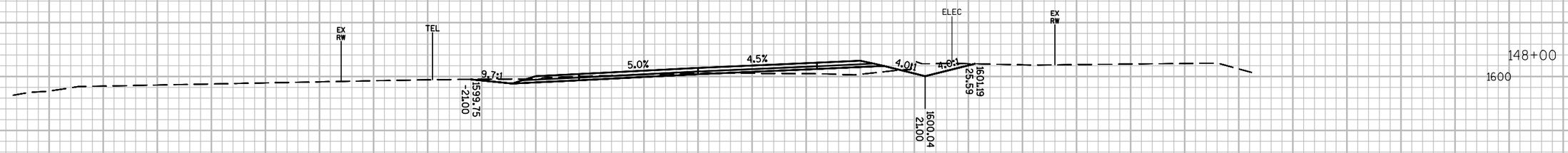
PLOT DATE : 4/28/2017 3:54 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:10 FT

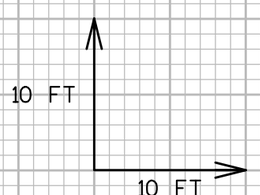


PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 104	E



PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 105	E





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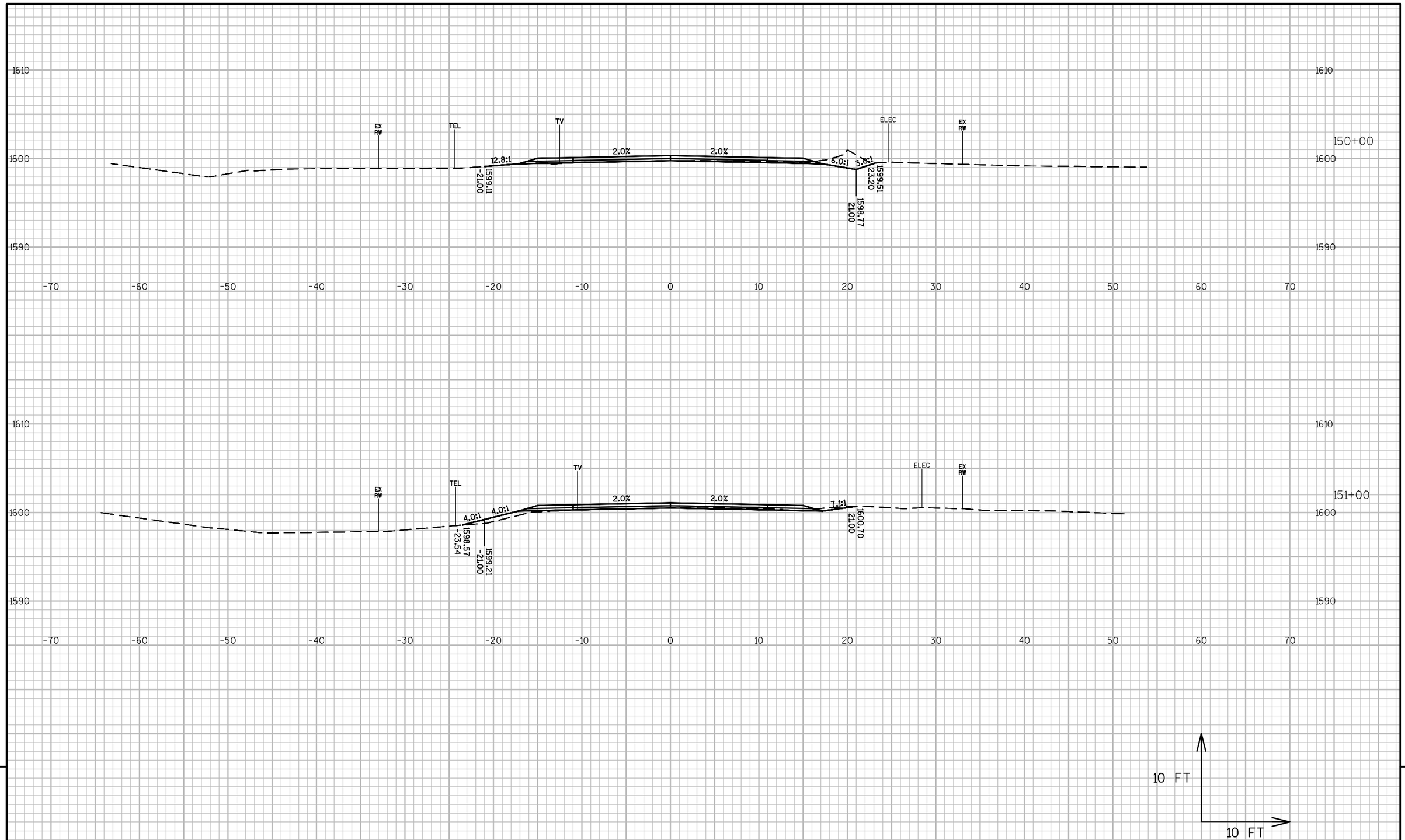
PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 106	E



9

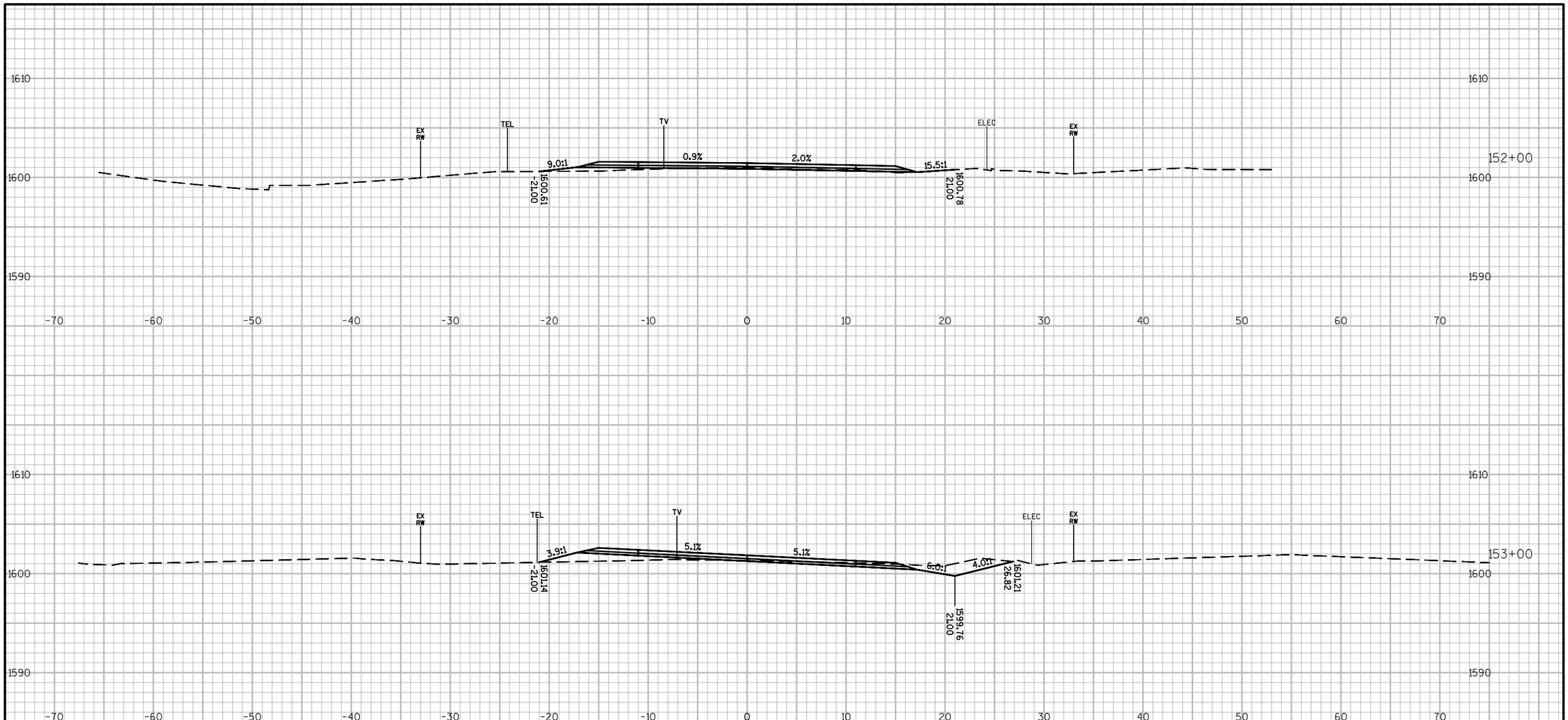
9

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 107	E

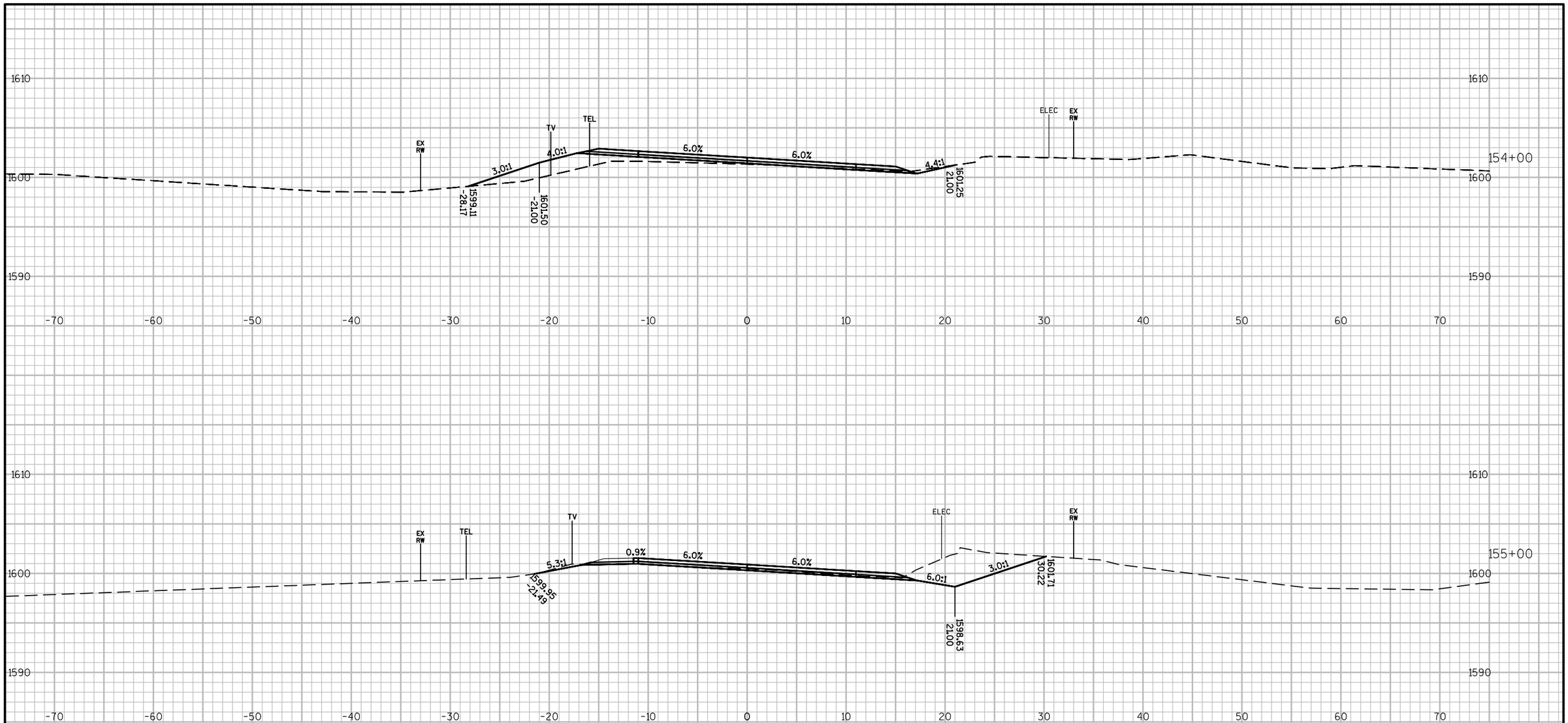
FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (85)

PLOT DATE : 4/28/2017 3:55 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 108	E



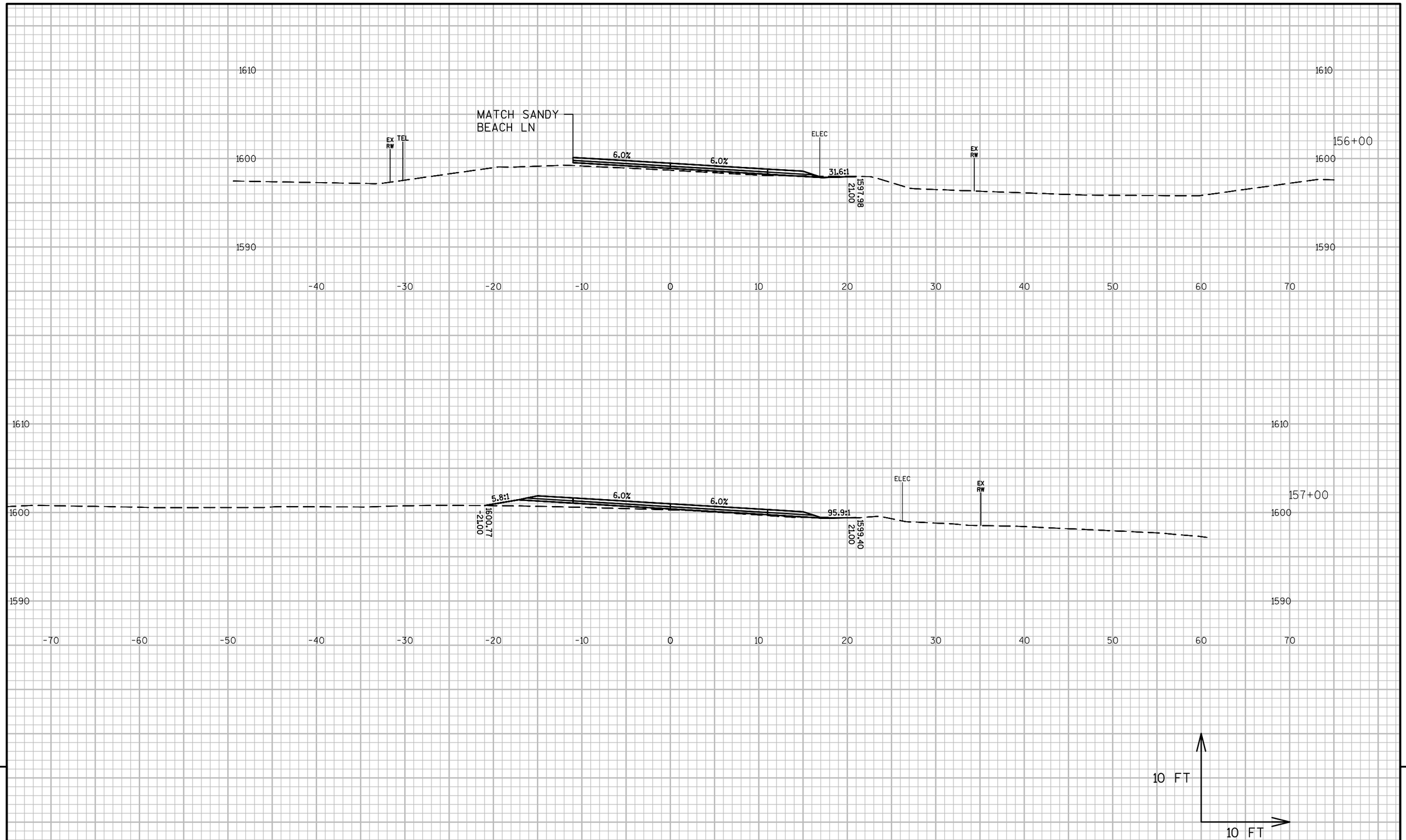
9

9

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 109	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (87)

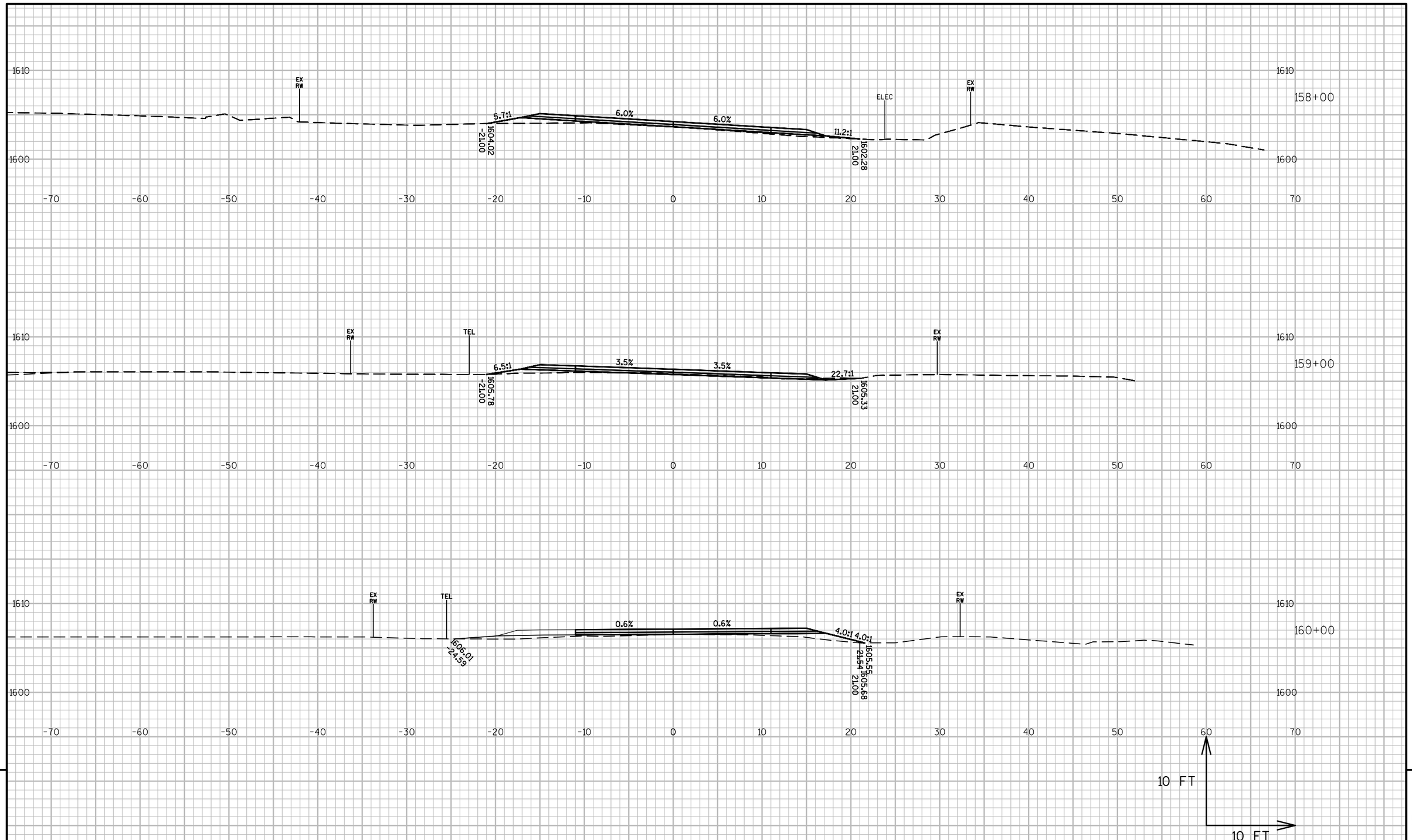
PLOT DATE : 4/28/2017 3:56 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:10 FT



9

9

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 110	E



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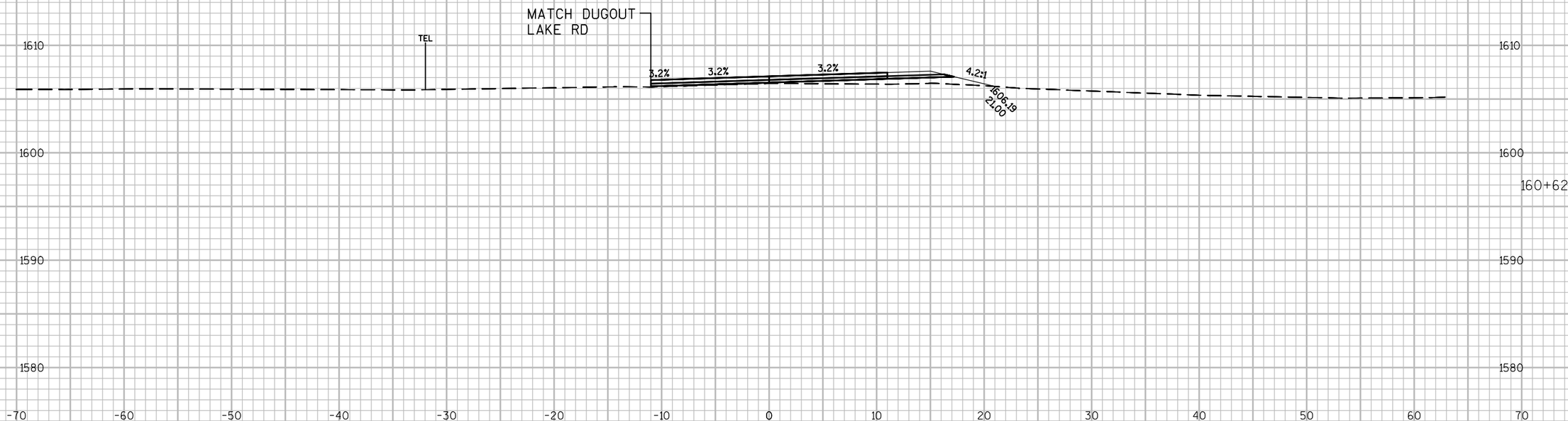
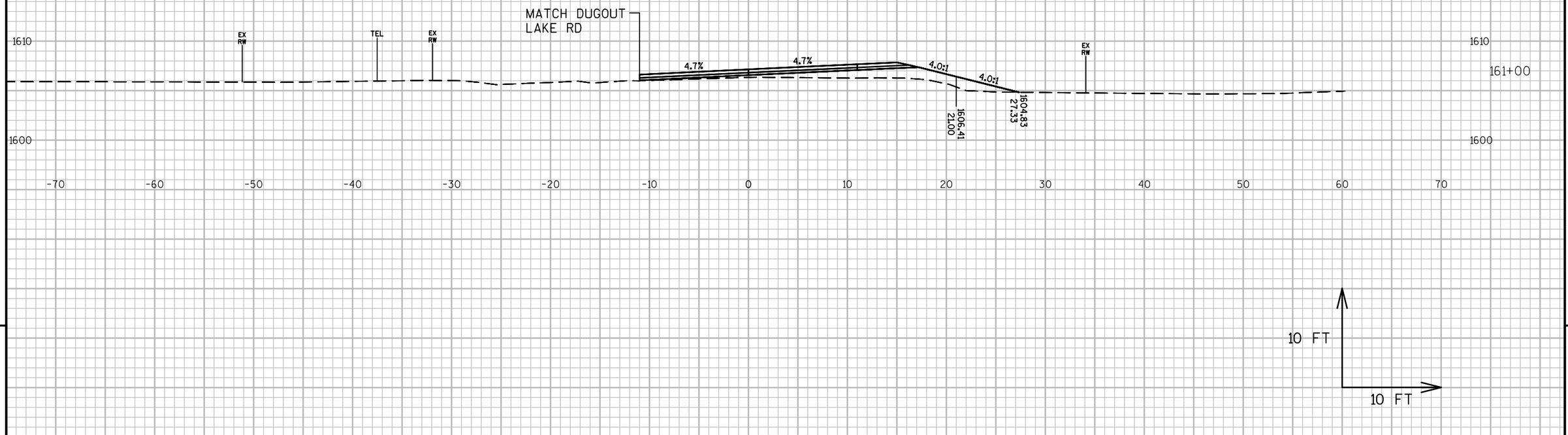
PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 111	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (89)

PLOT DATE : 4/28/2017 3:56 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:10 FT

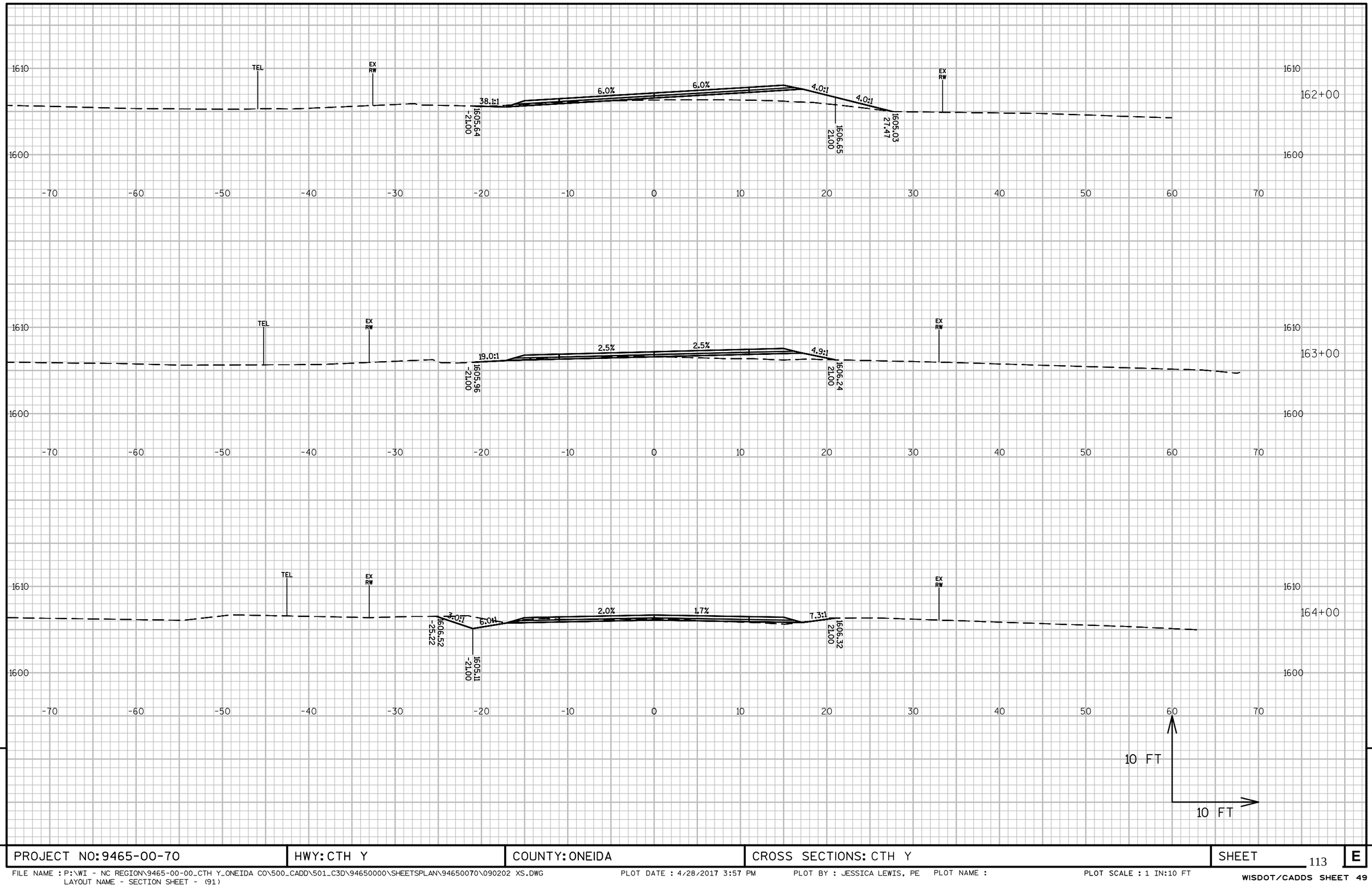




9

9

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 112	E



9

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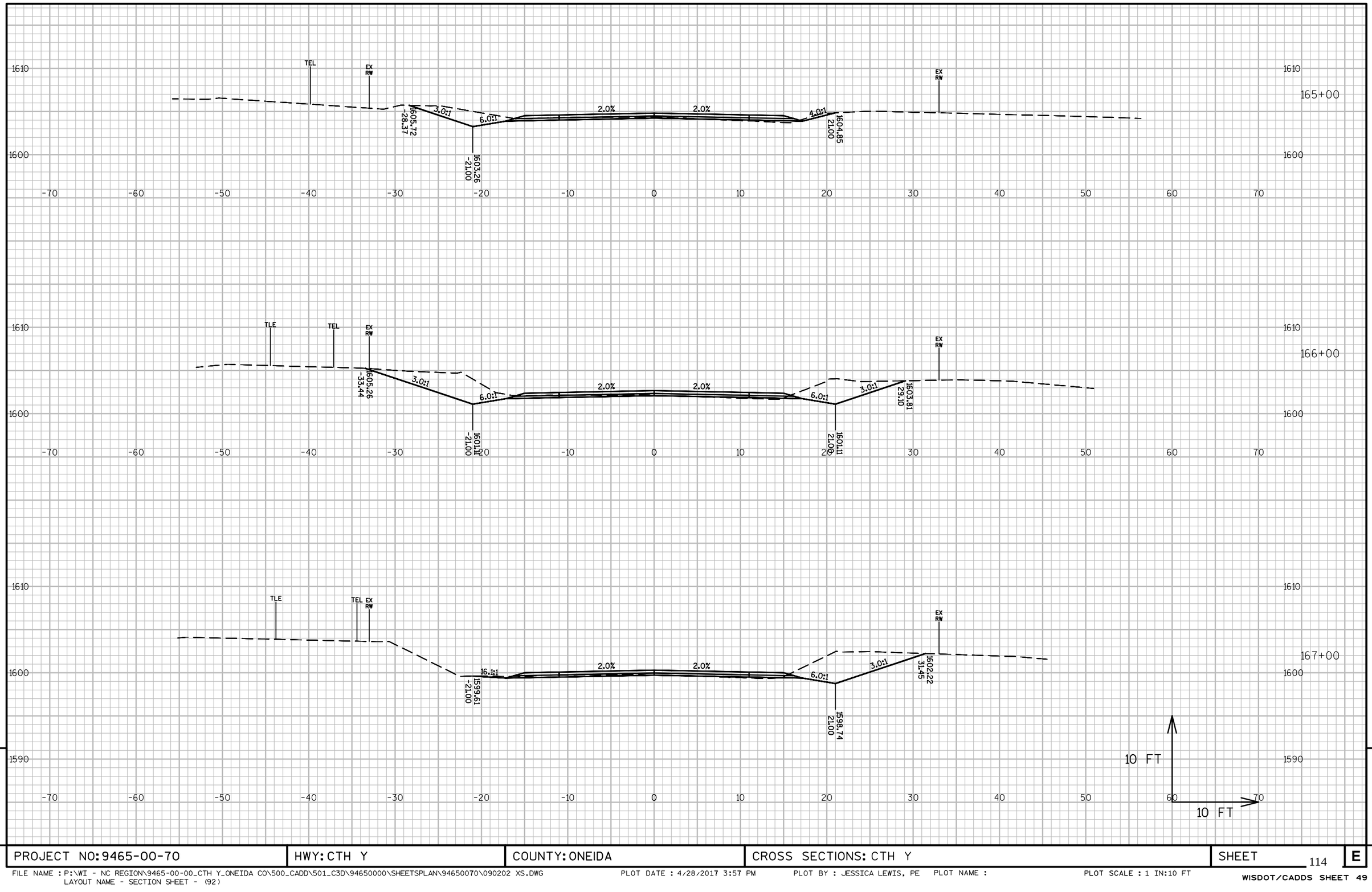
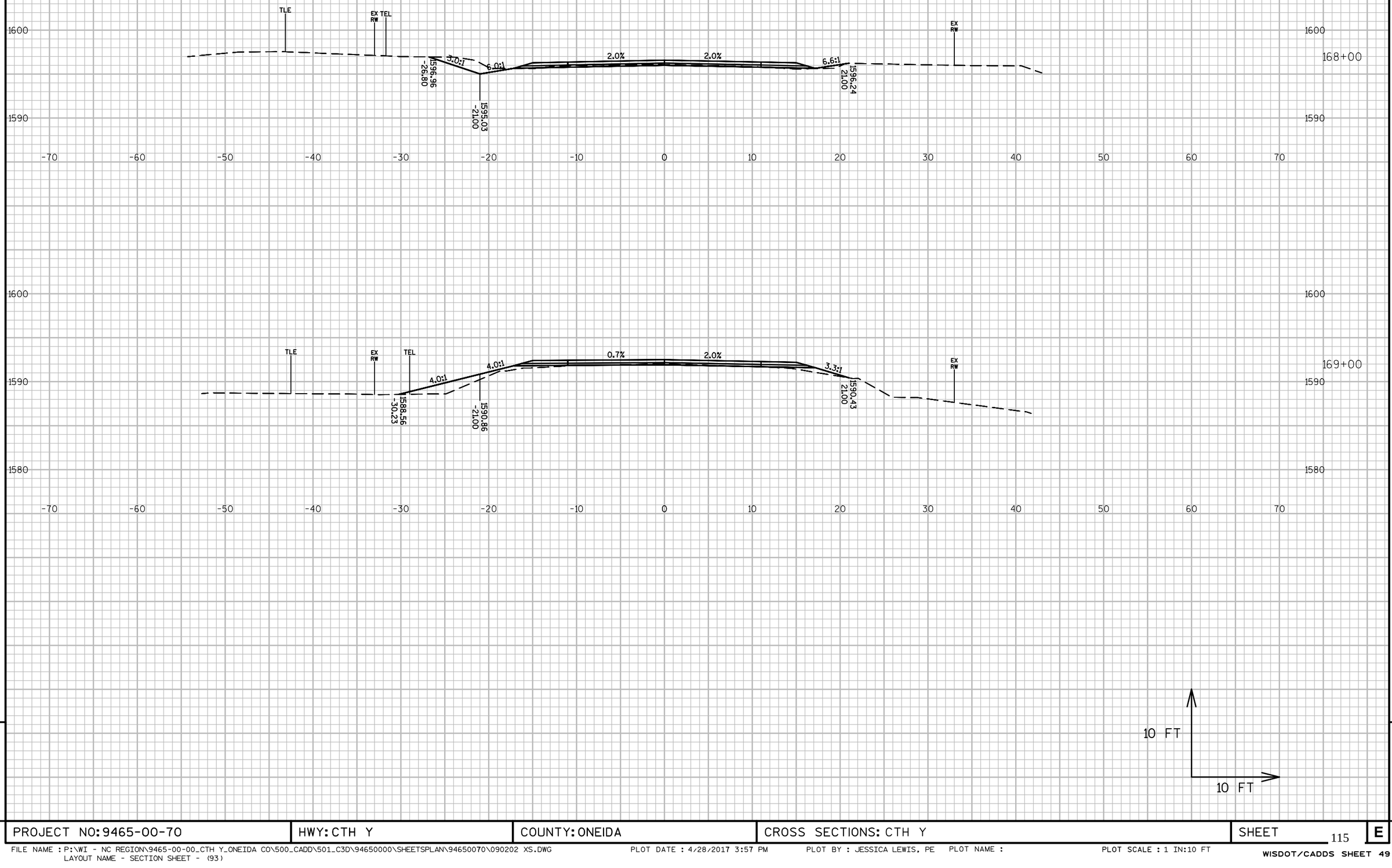
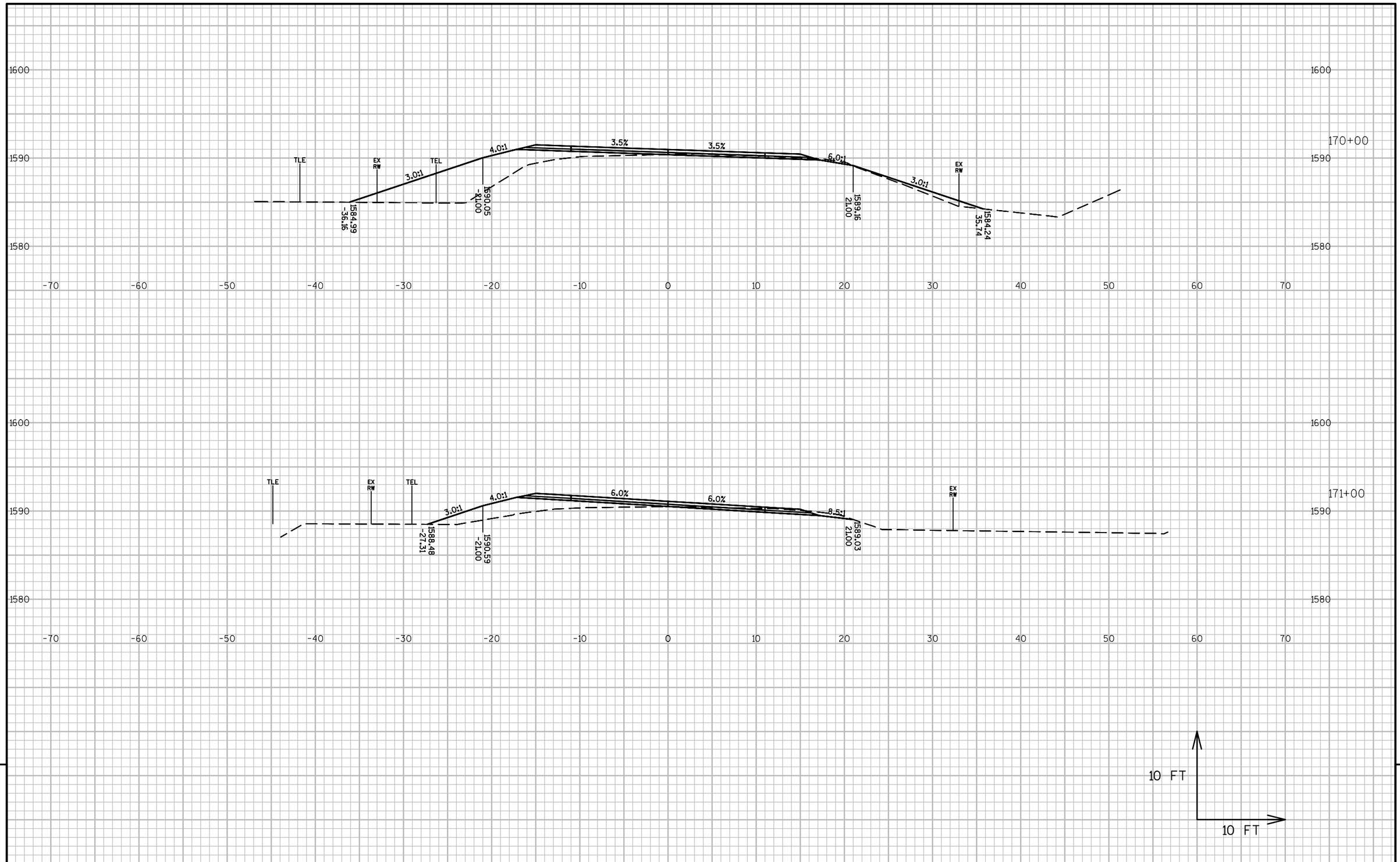
PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 113	E

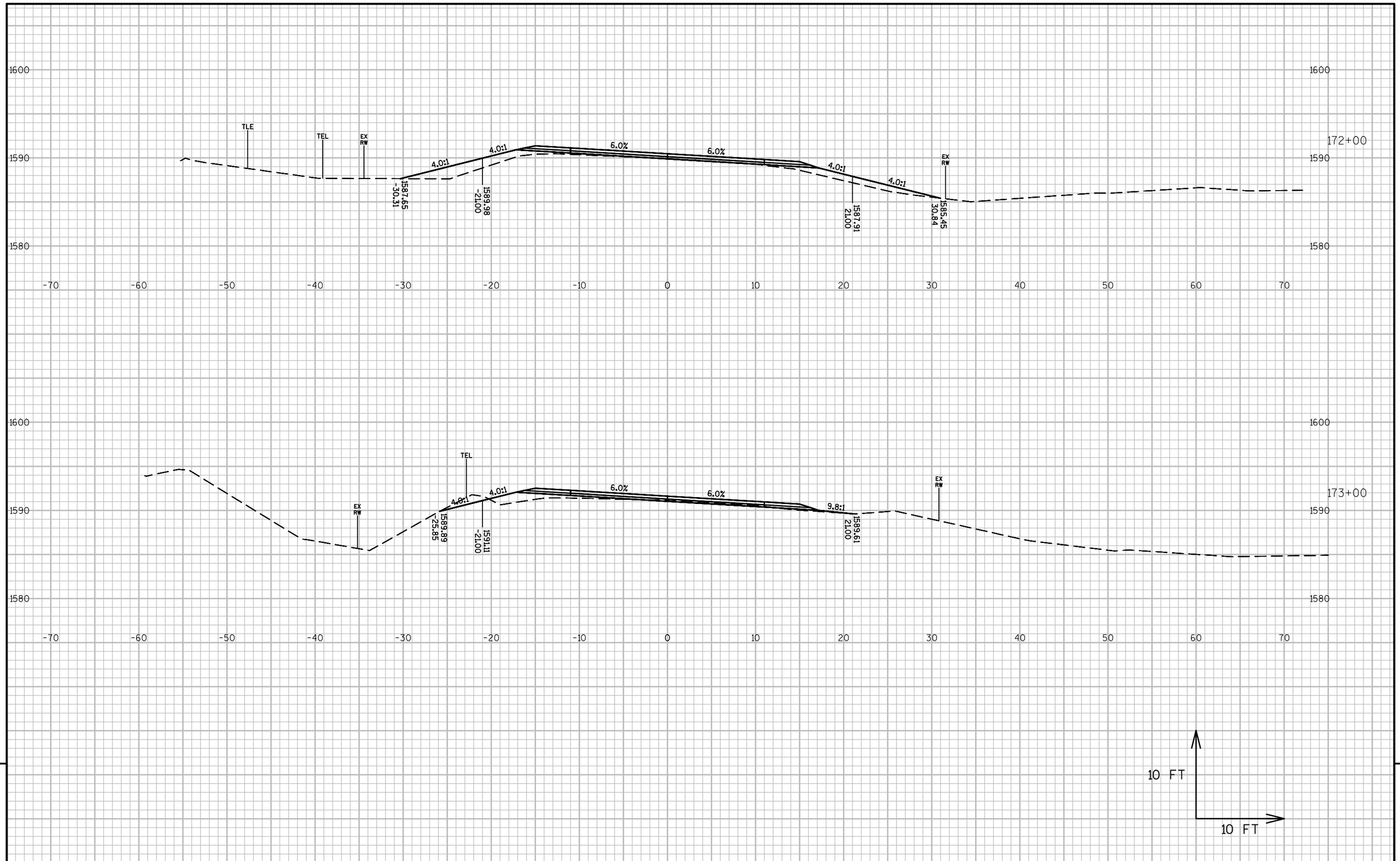


PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 114	E


TLE
EX RW
TEL
EX RW
-26.80
1596.96
3.0:1
6.0:1
-21.00
1595.03
2.0%
2.0%
6.6:1
21.00
1596.24
168+00
1600
1590
1580
-70
-60
-50
-40
-30
-20
-10
0
10
20
30
40
50
60
70
TLE
EX RW
TEL
-30.23
1588.56
4.0:1
4.0:1
-21.00
1590.86
0.7%
2.0%
3.3:1
21.00
1590.43
EX RW
169+00
10 FT
10 FT



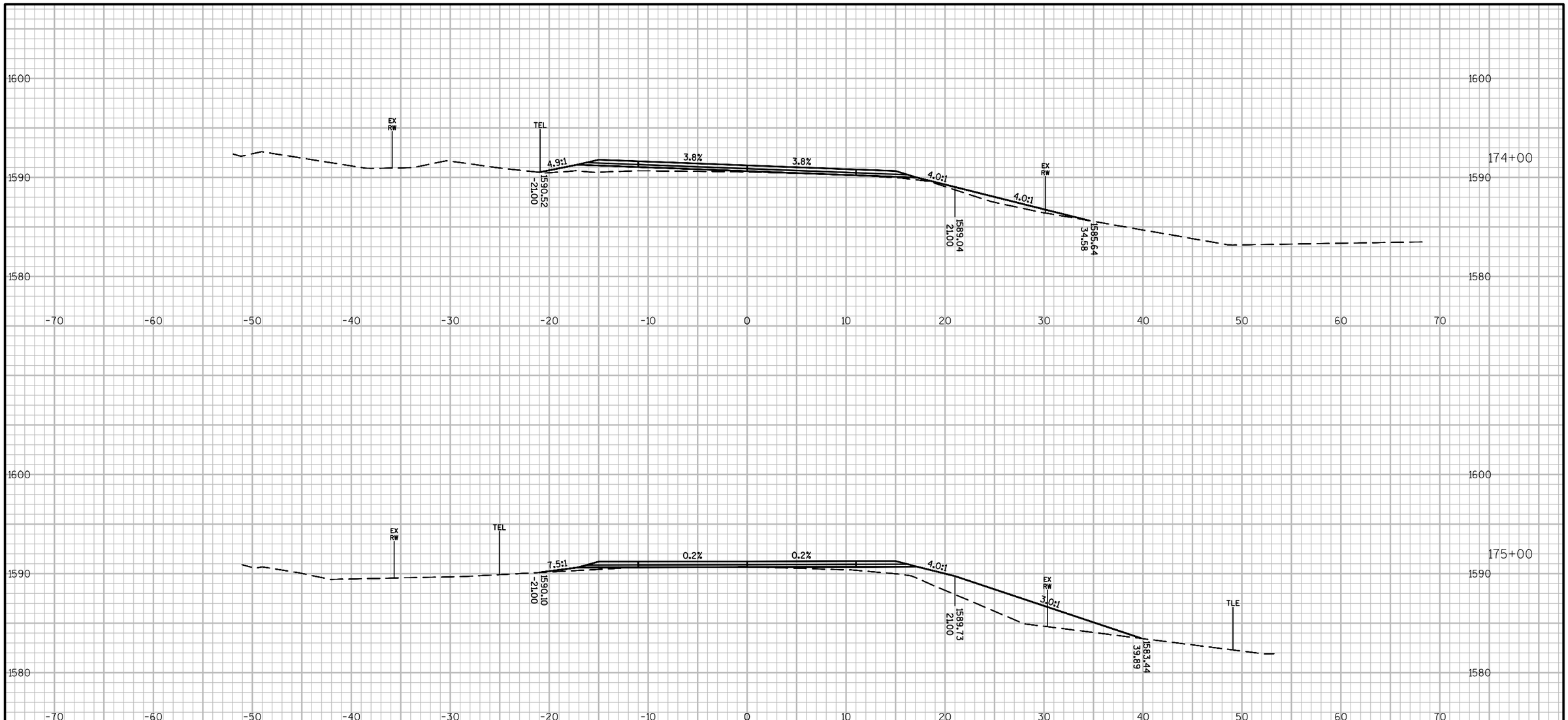
PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 116	E



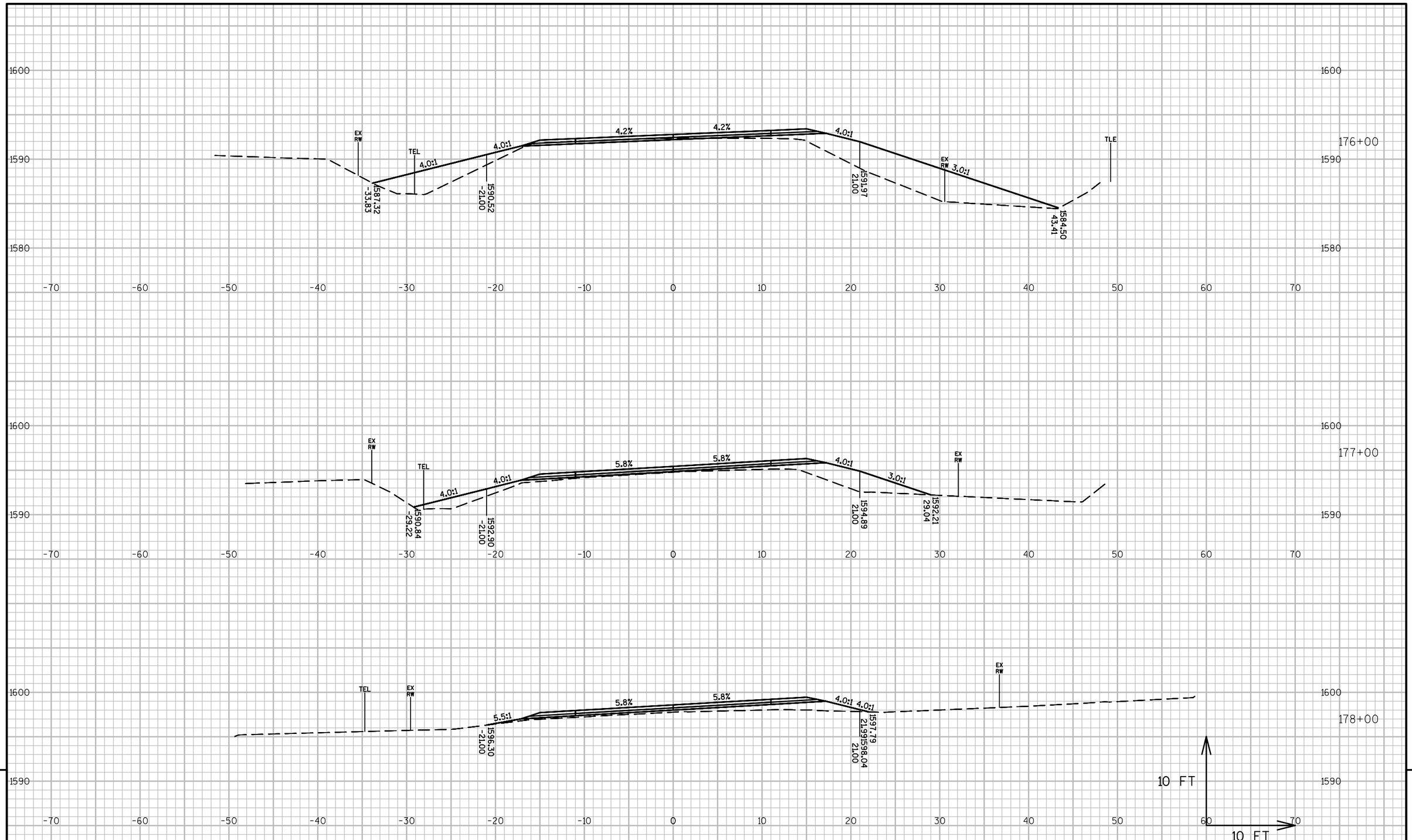
9

9

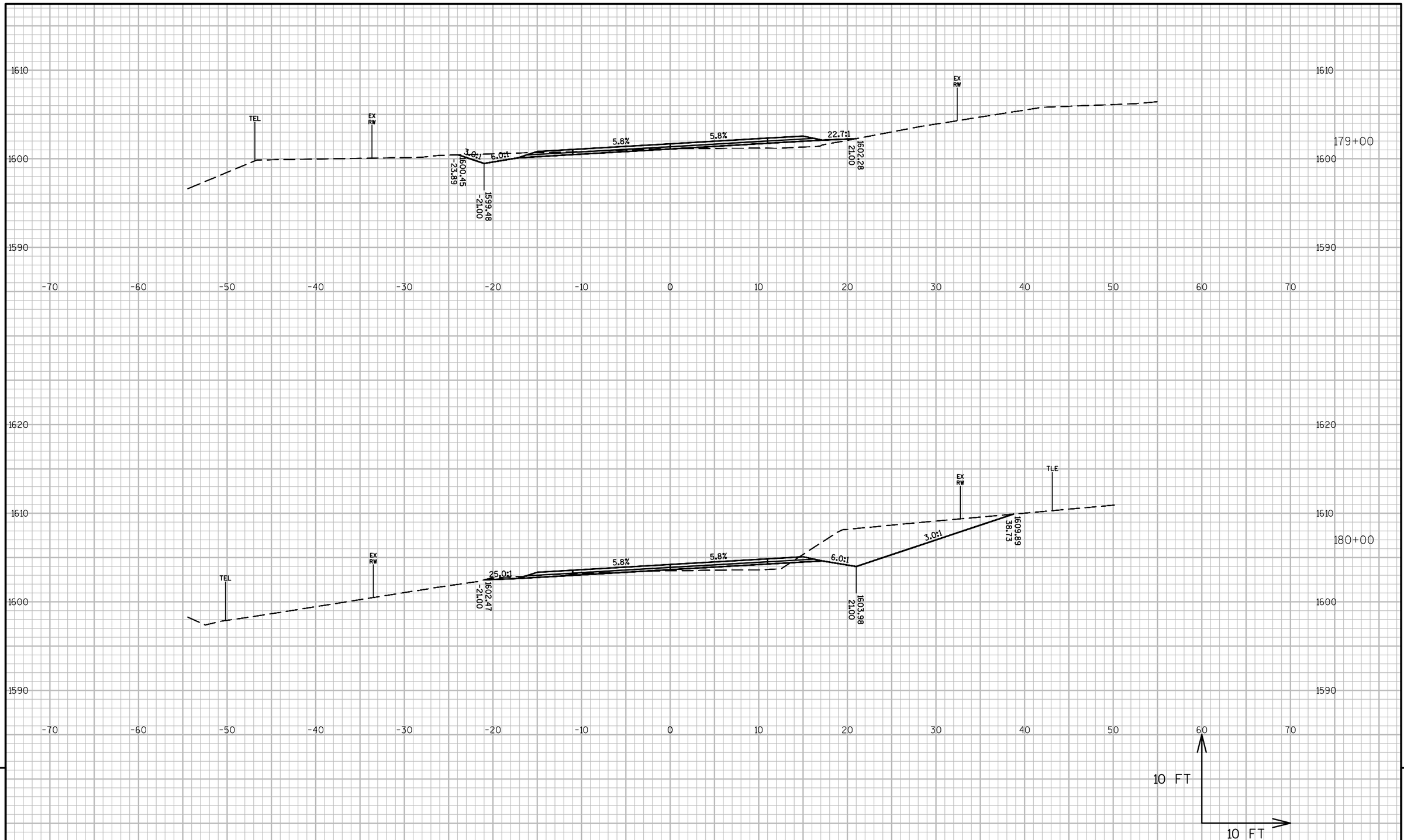
PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 117	E



PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 118	E



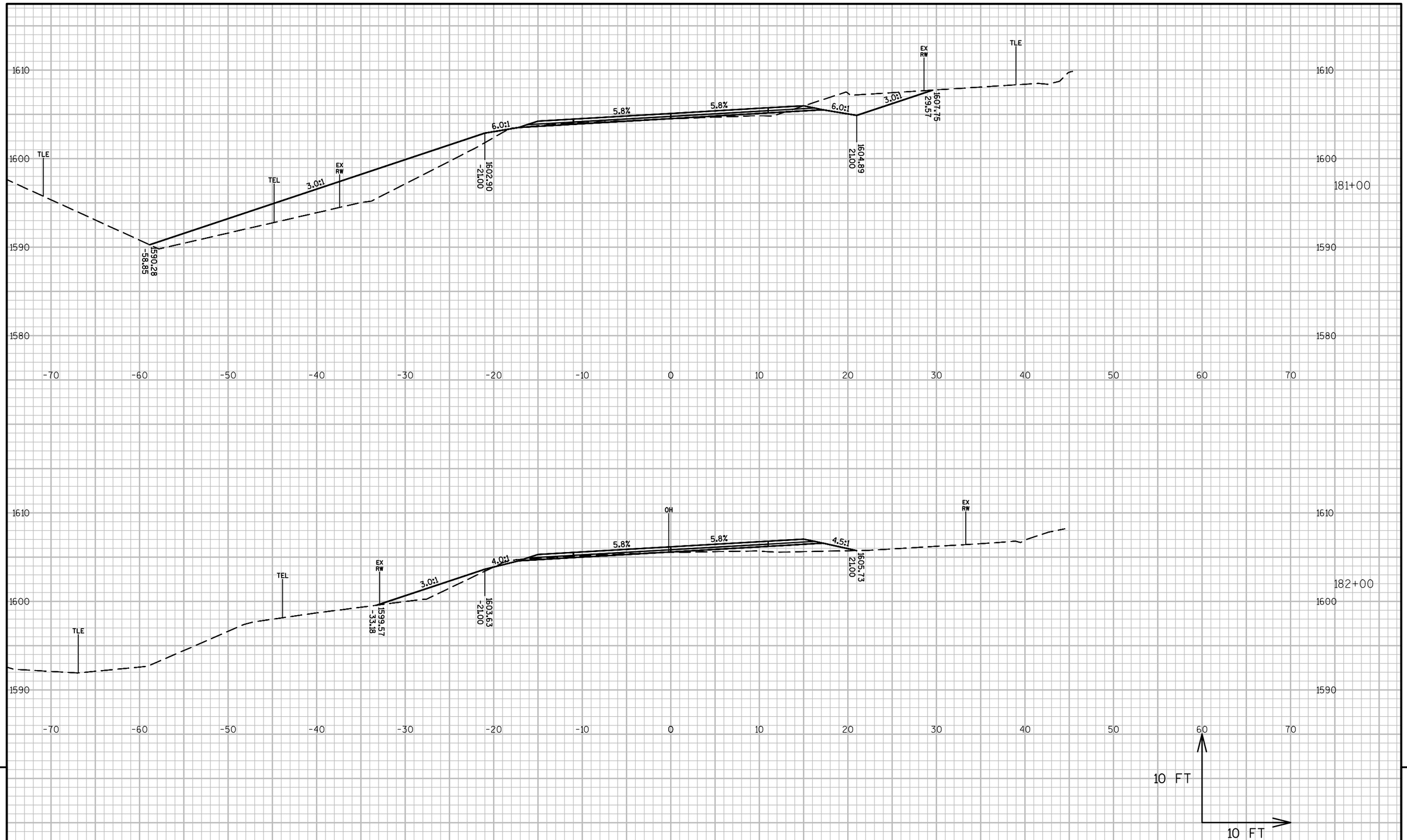
PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 119	E



9

9

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 120	E



9

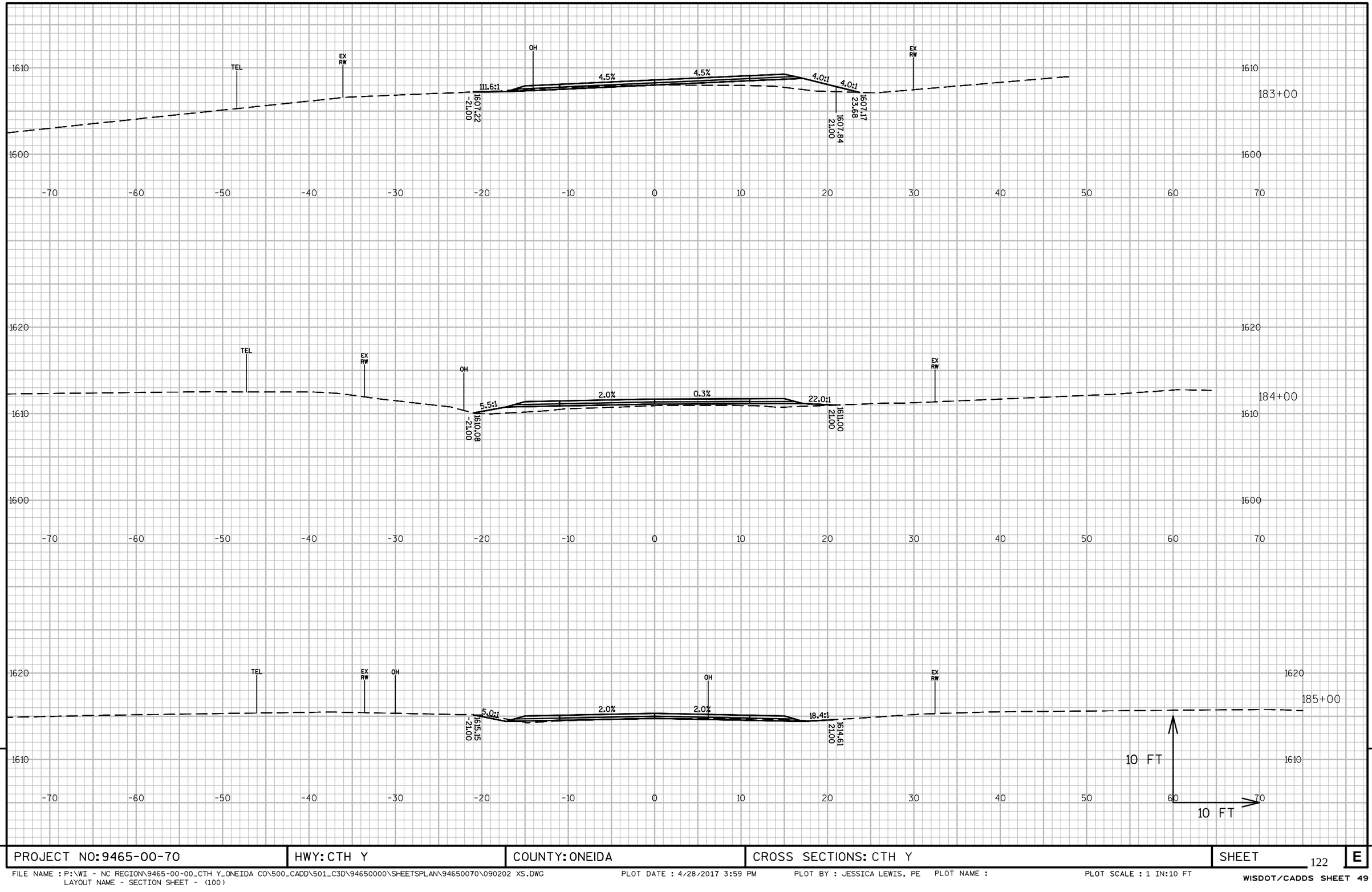
9

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 121	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (99)

PLOT DATE : 4/28/2017 3:59 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

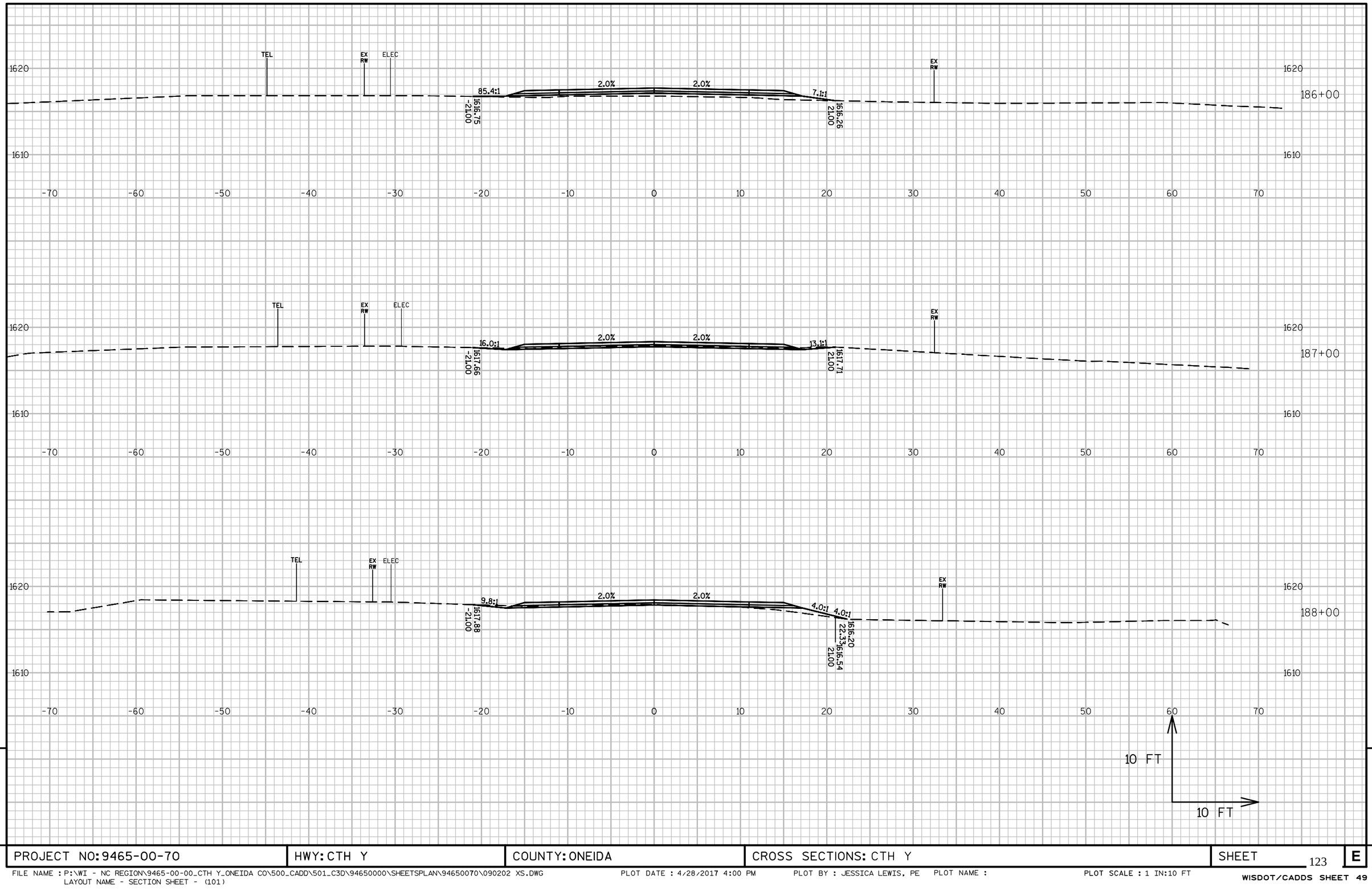
9

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 122	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (100)

PLOT DATE : 4/28/2017 3:59 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

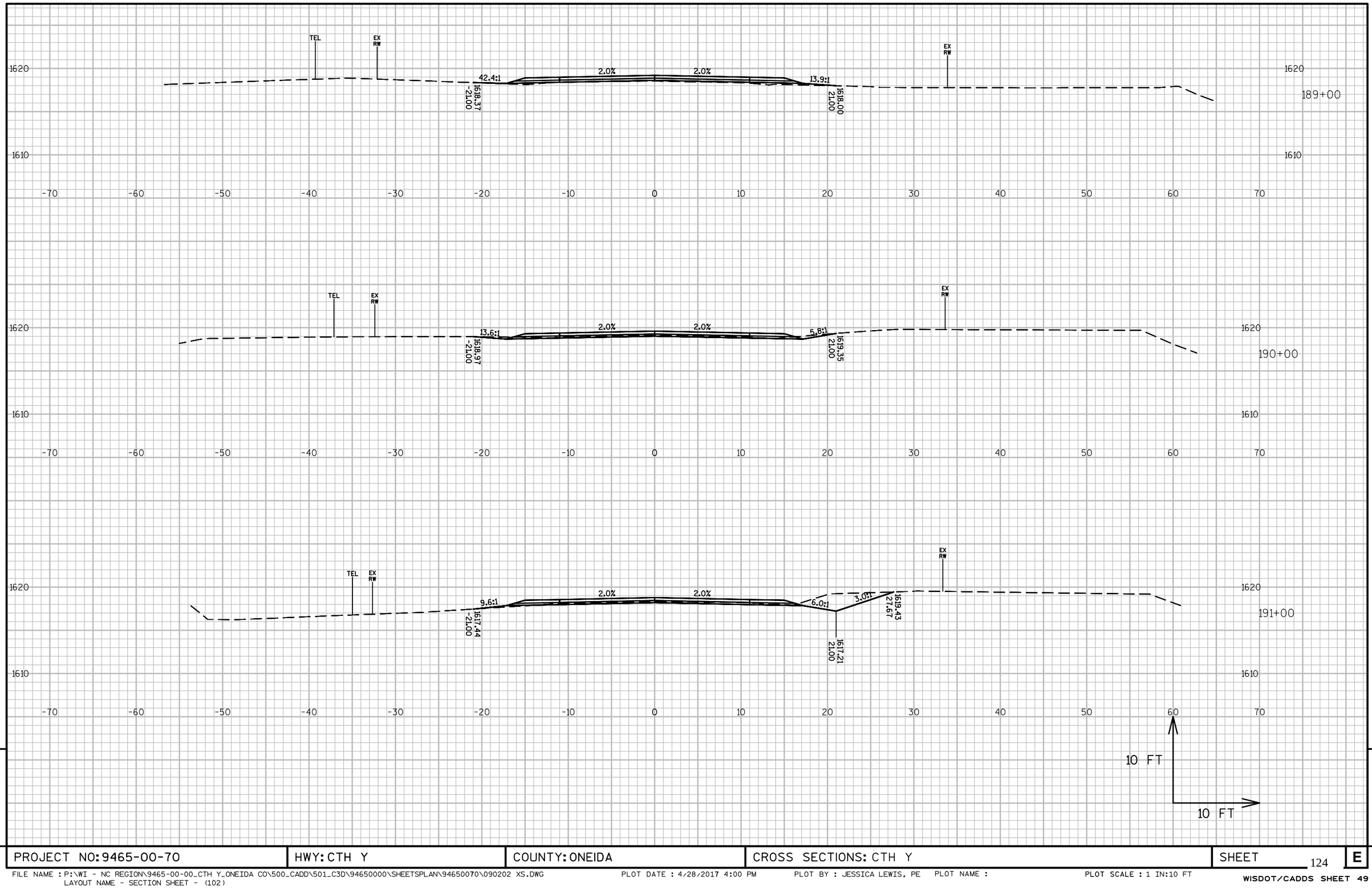


PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 123	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (101)

PLOT DATE : 4/28/2017 4:00 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

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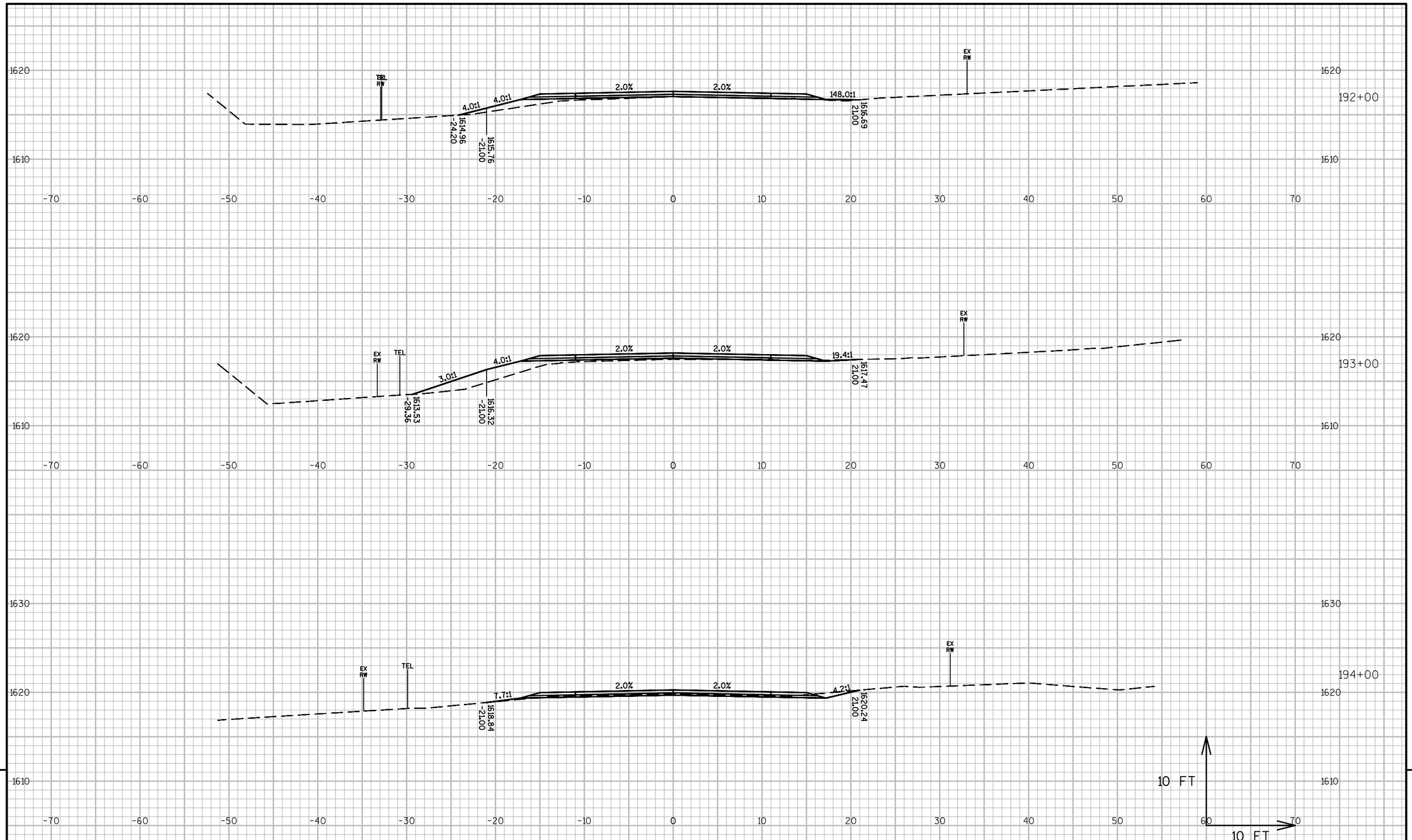
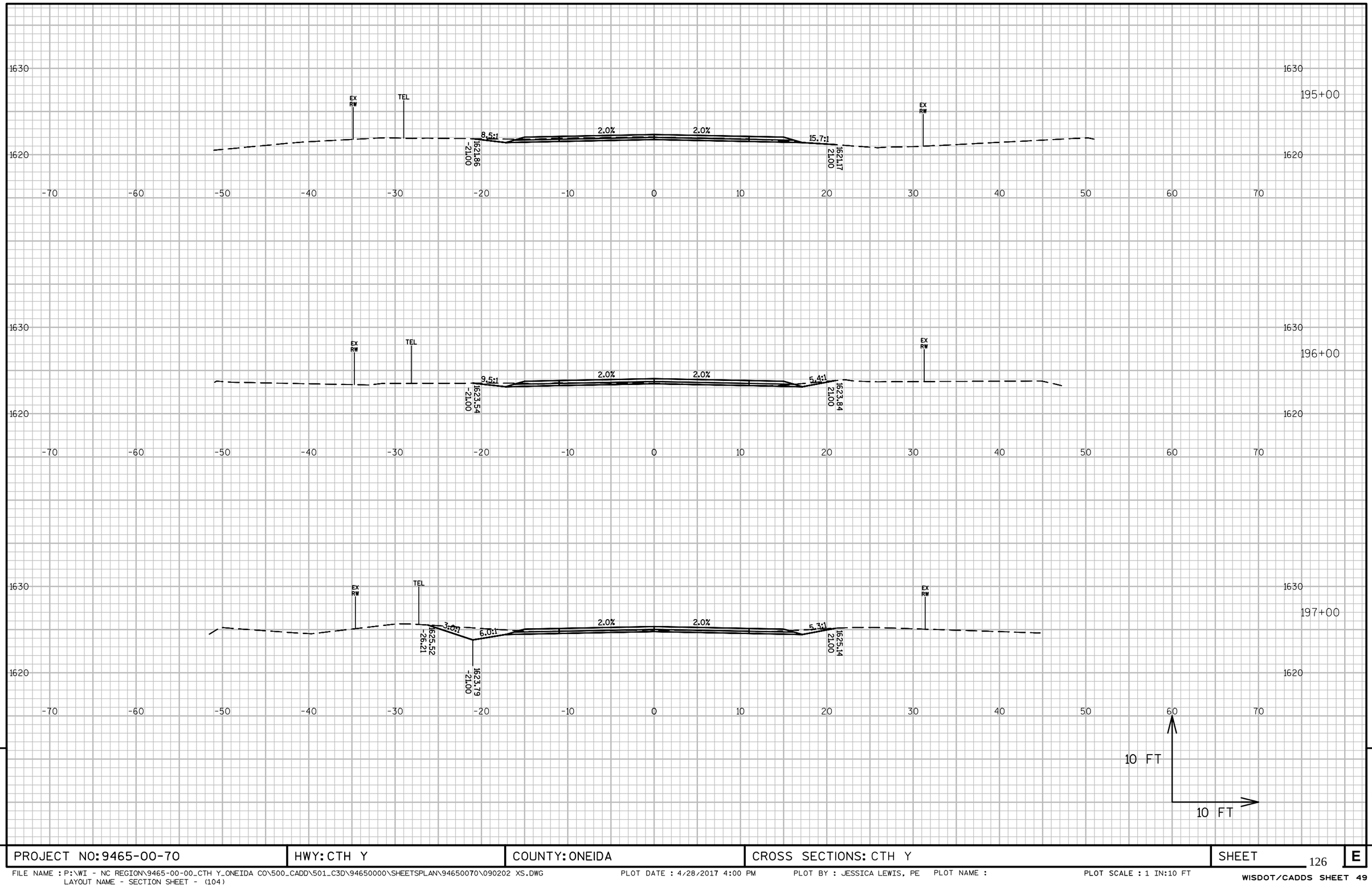
PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 124	E



PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 125	E



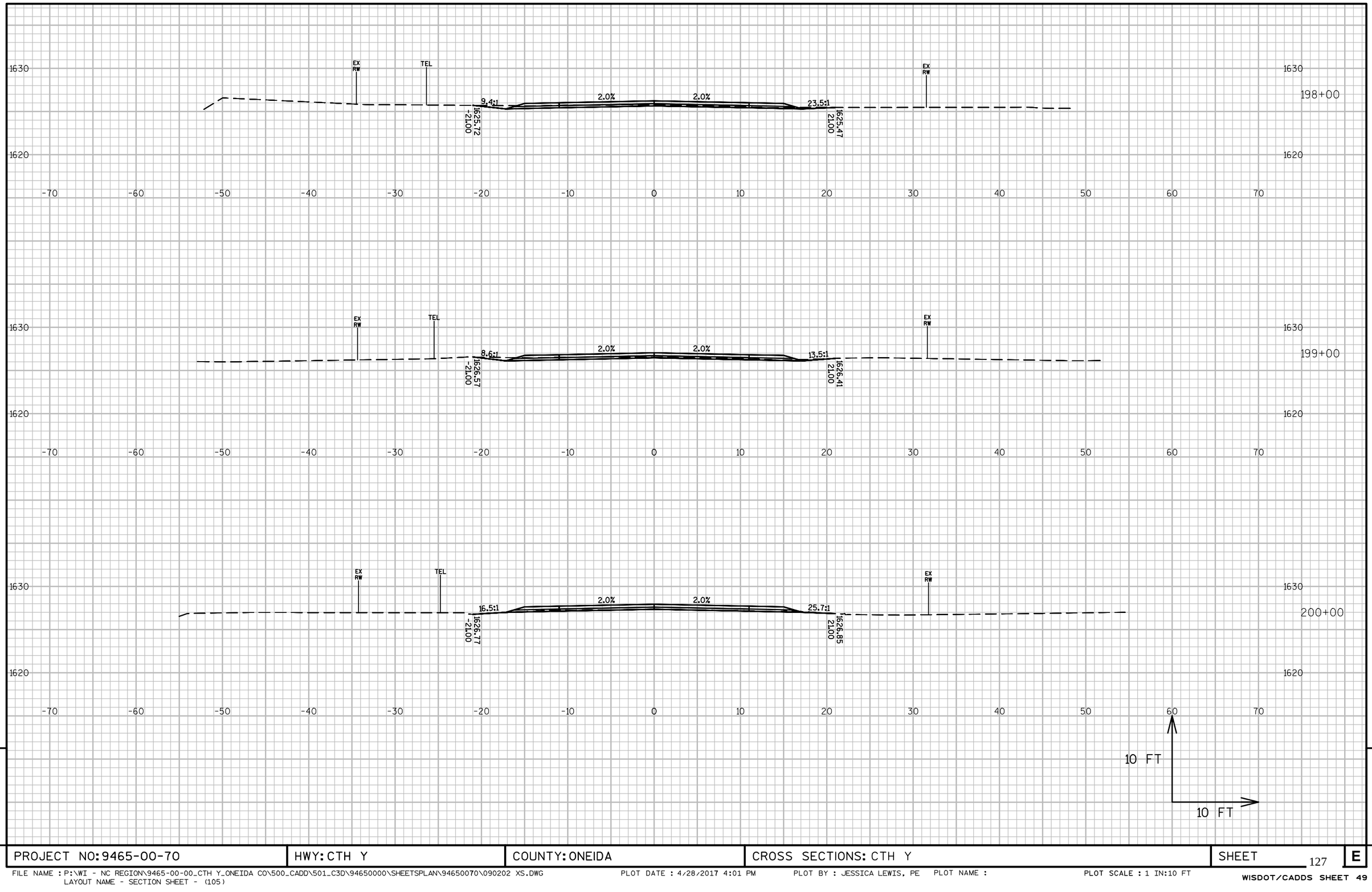
9

9

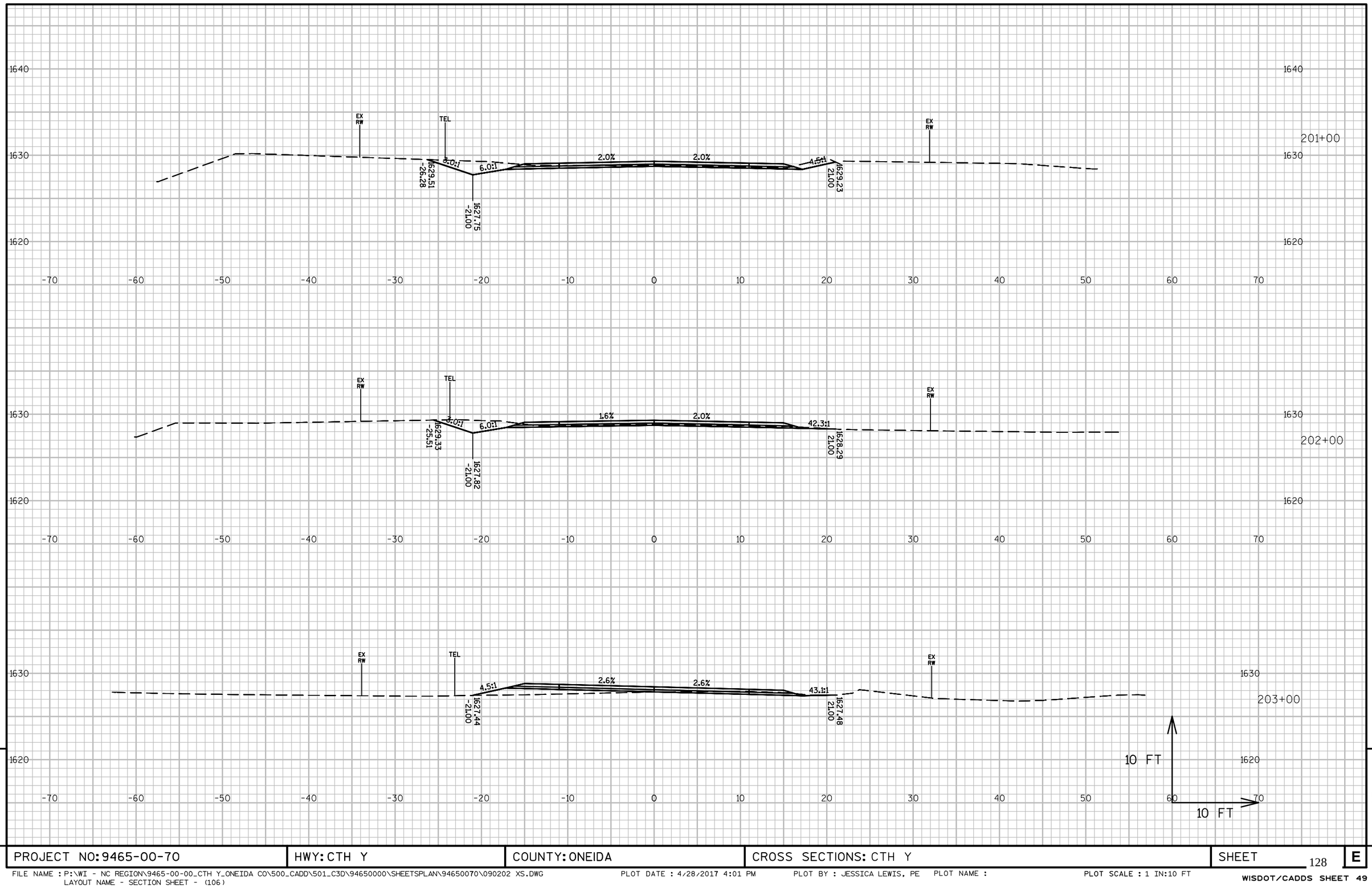
PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 126	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (104)

PLOT DATE : 4/28/2017 4:00 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 127	E



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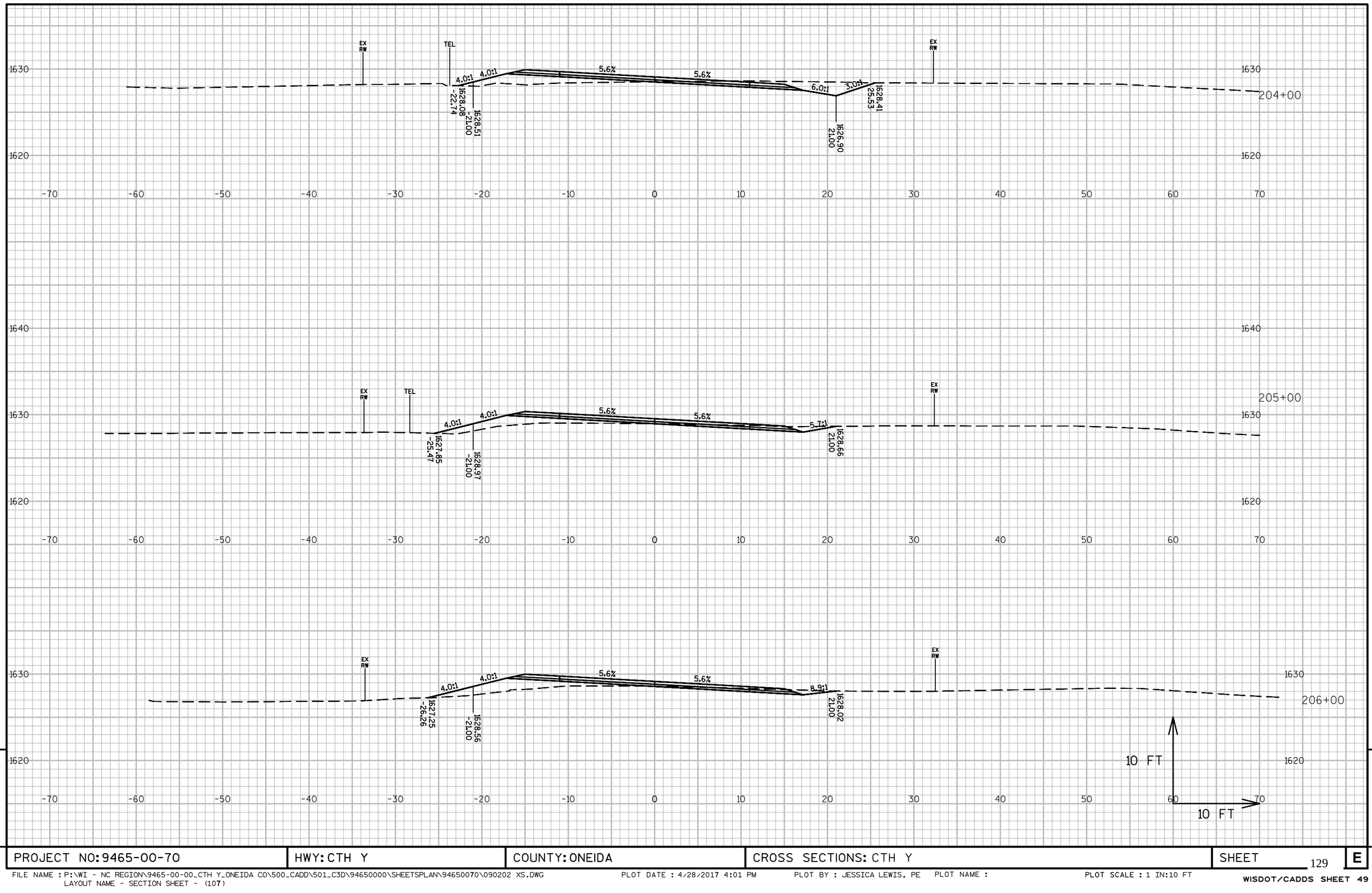
PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 128	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (106)

PLOT DATE : 4/28/2017 4:01 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

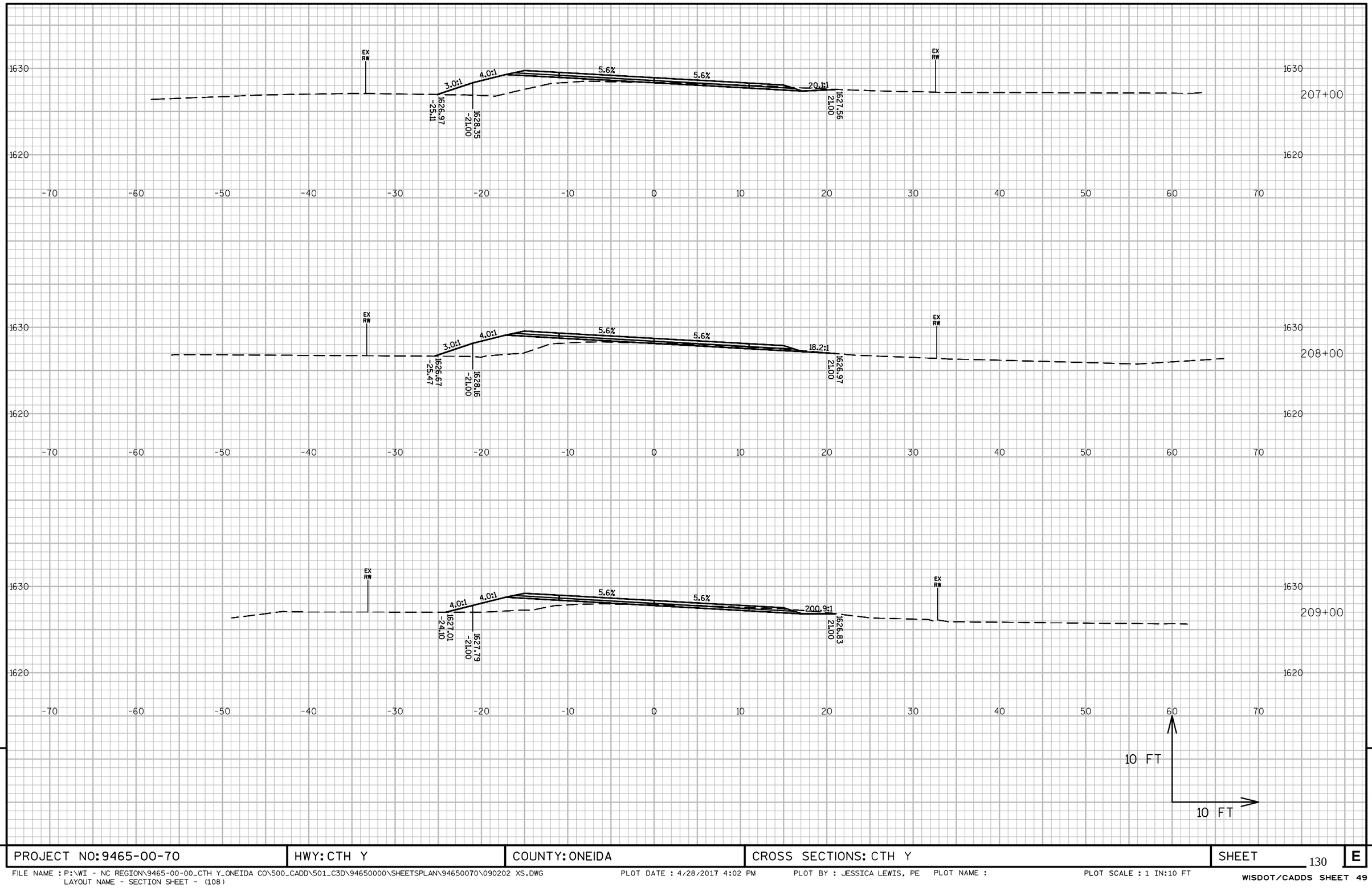
9

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 129	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (107)

PLOT DATE : 4/28/2017 4:01 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:10 FT

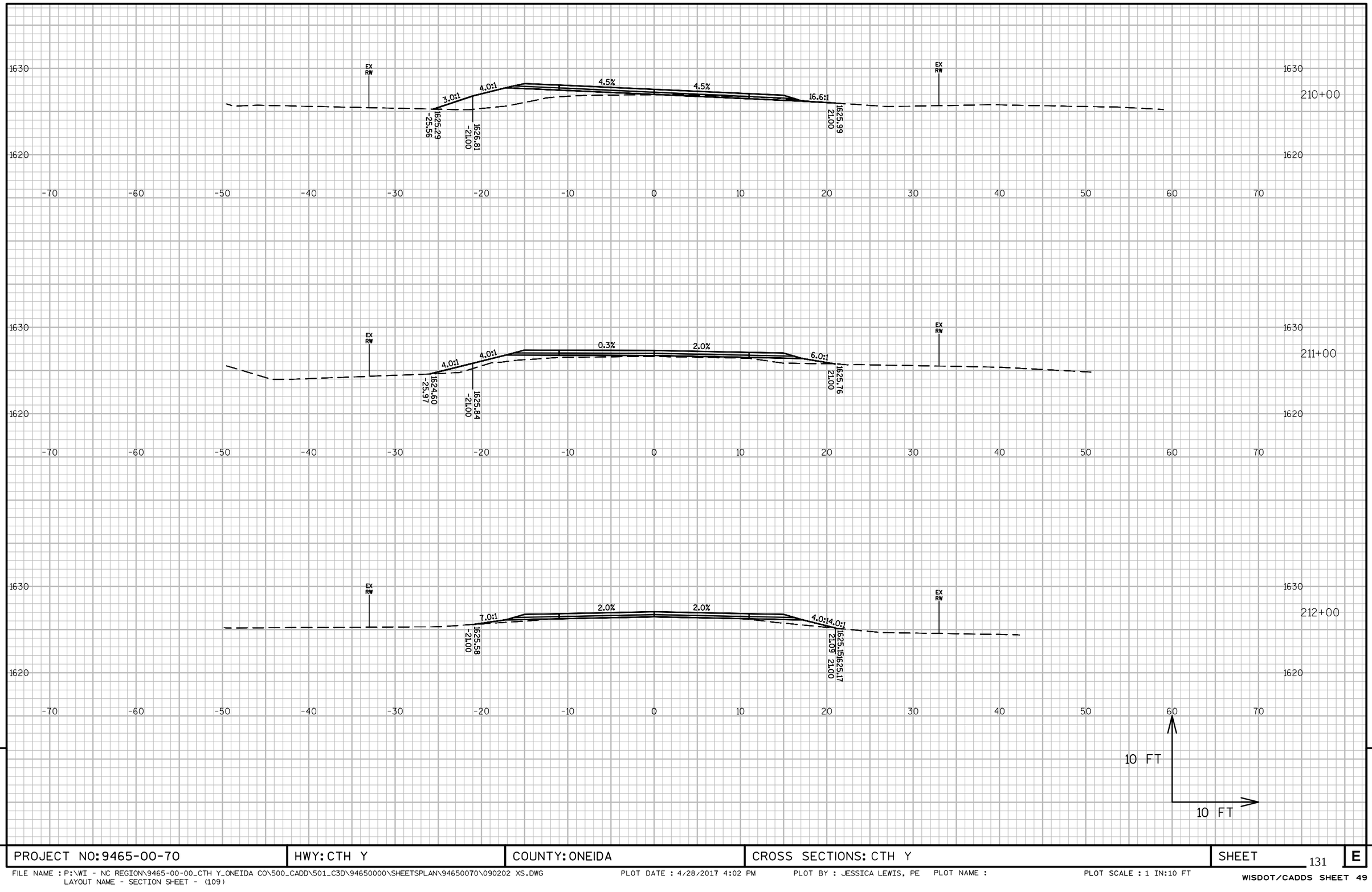
WISDOT/CADDS SHEET 49



PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 130	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (108)

PLOT DATE : 4/28/2017 4:02 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:10 FT



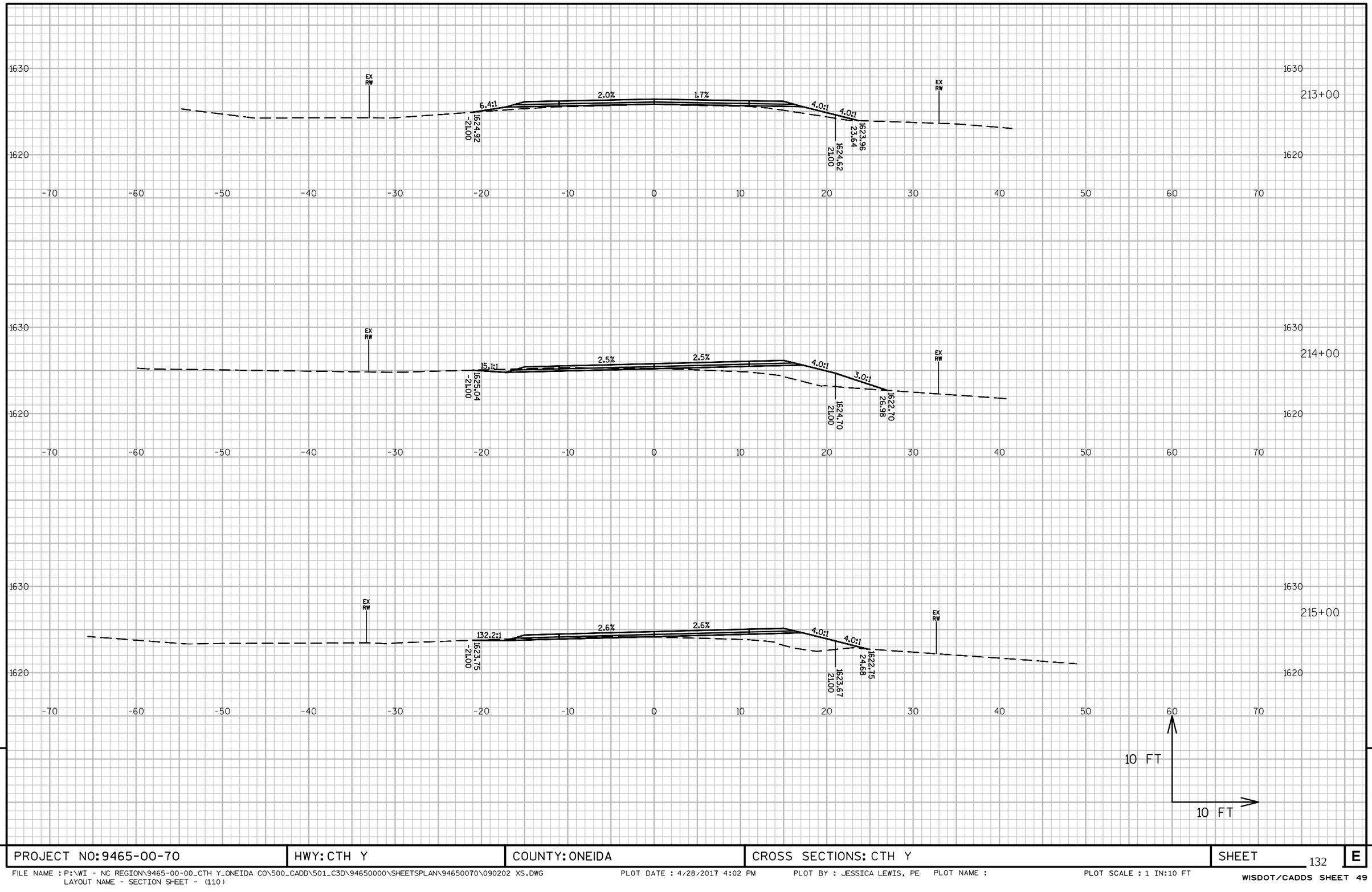
9

9

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 131	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (109)

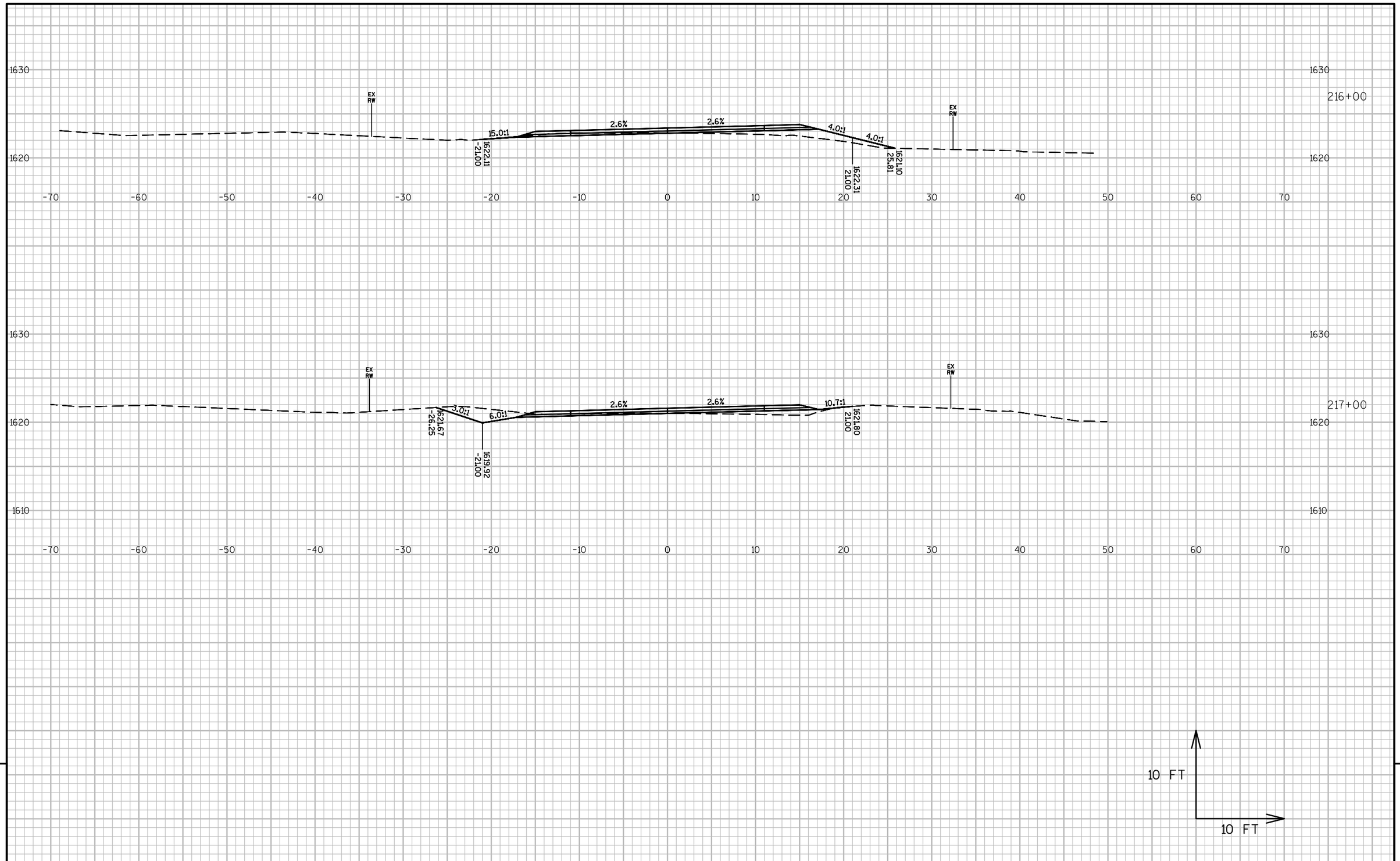
PLOT DATE : 4/28/2017 4:02 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 132	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (110)

PLOT DATE : 4/28/2017 4:02 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:10 FT



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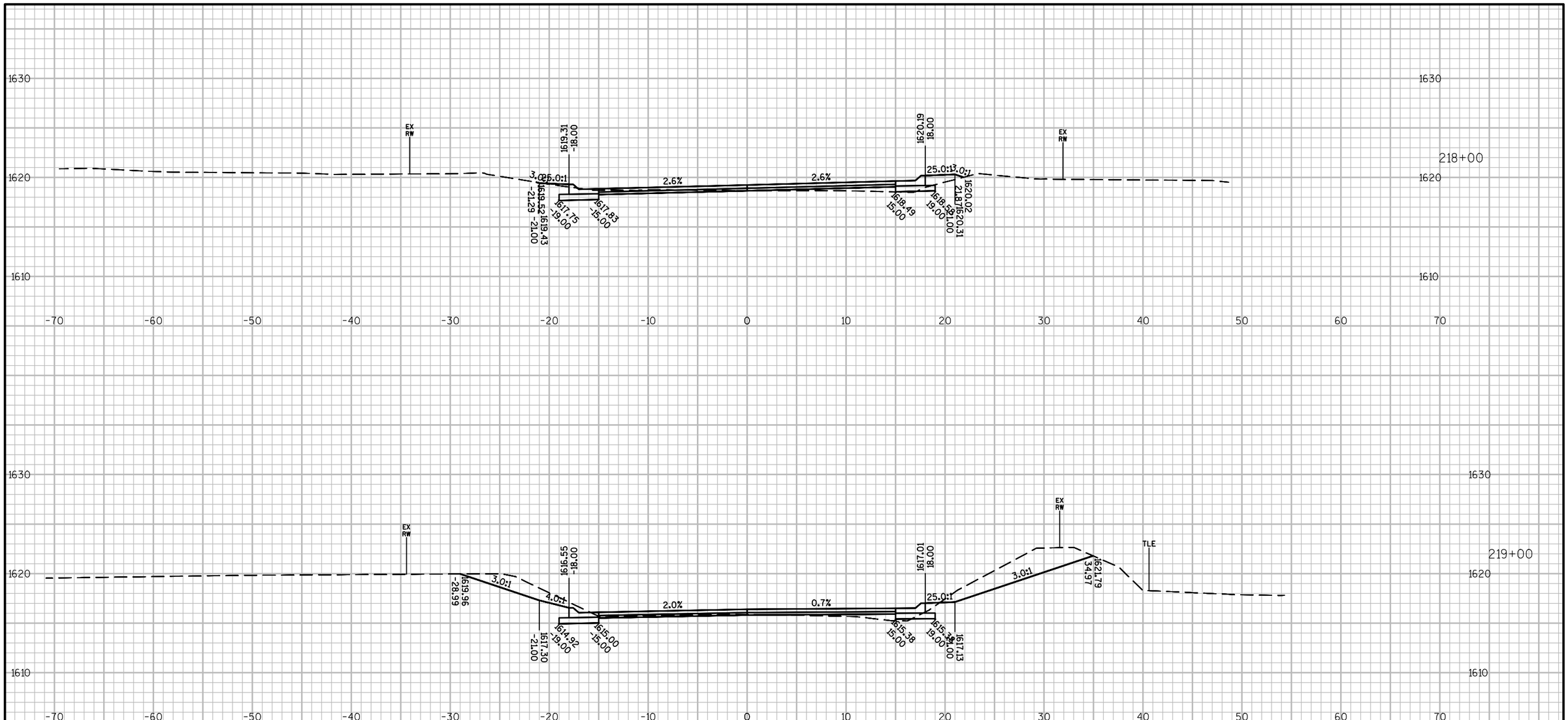
PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 133	E

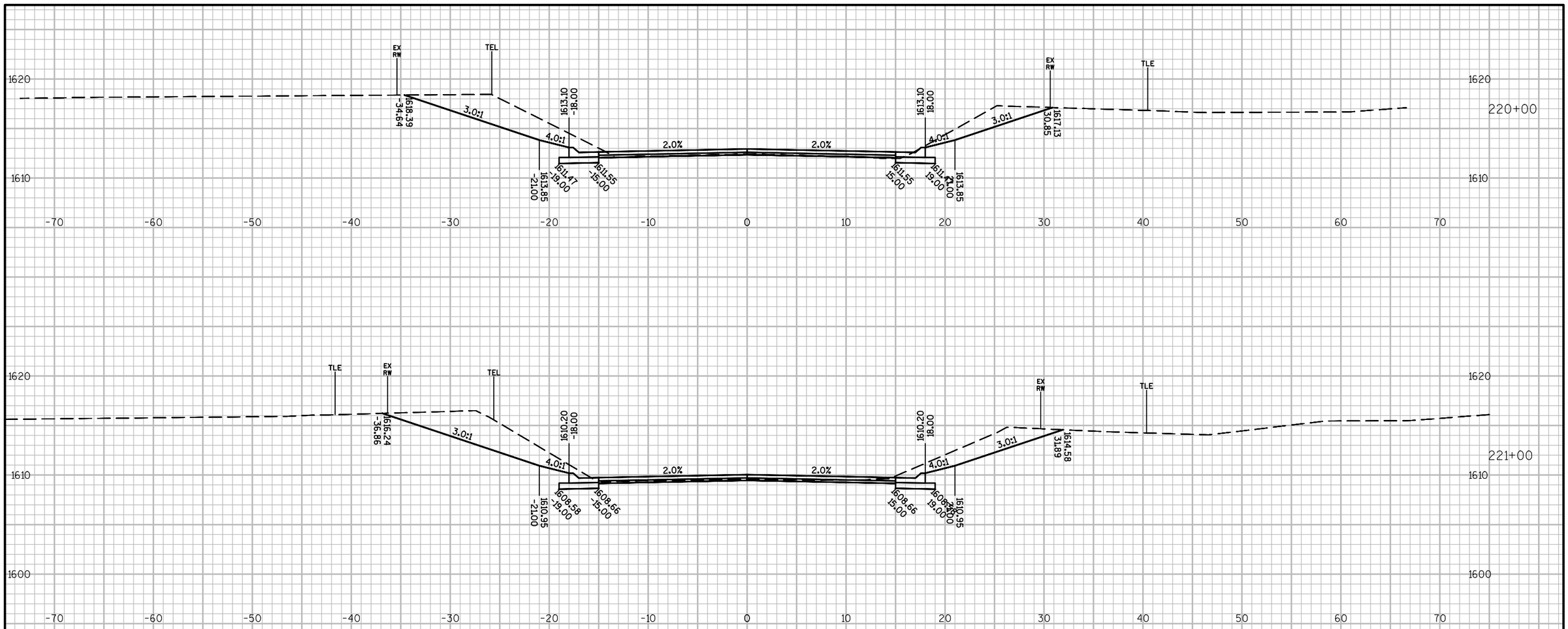
FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (111)

PLOT DATE : 4/28/2017 4:02 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 134	E



9

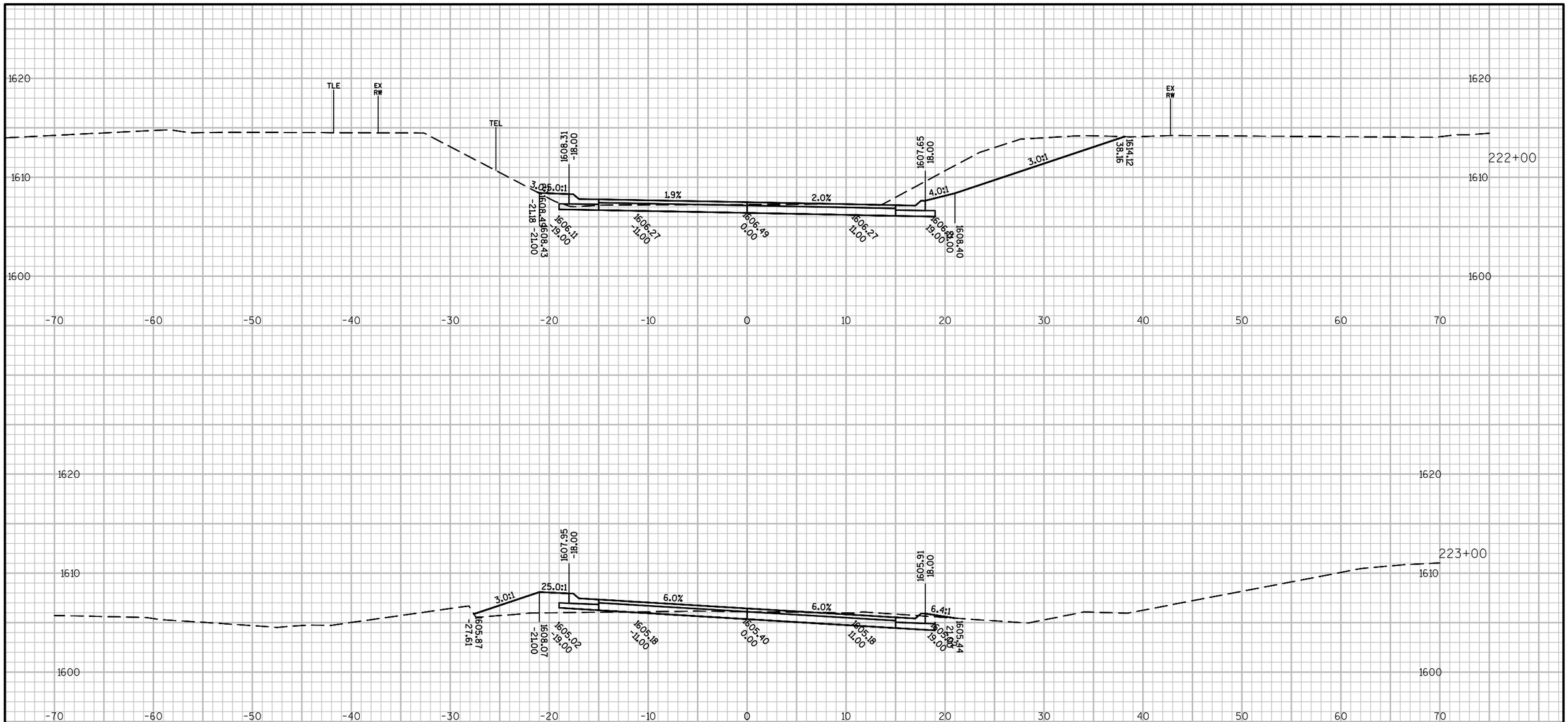
9

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 135	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (113)

PLOT DATE : 4/28/2017 4:03 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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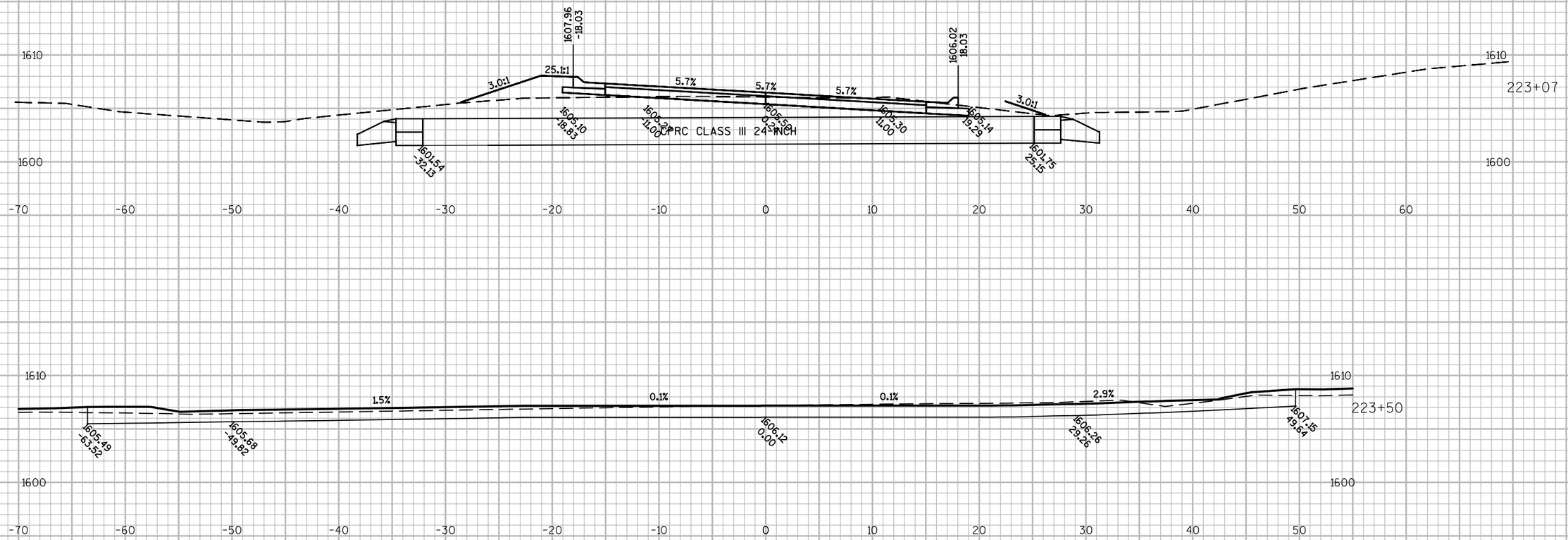
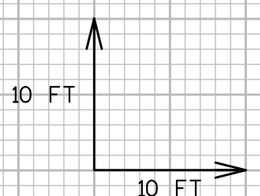
PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 136	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (114)
PLOT DATE : 4/28/2017 4:03 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49





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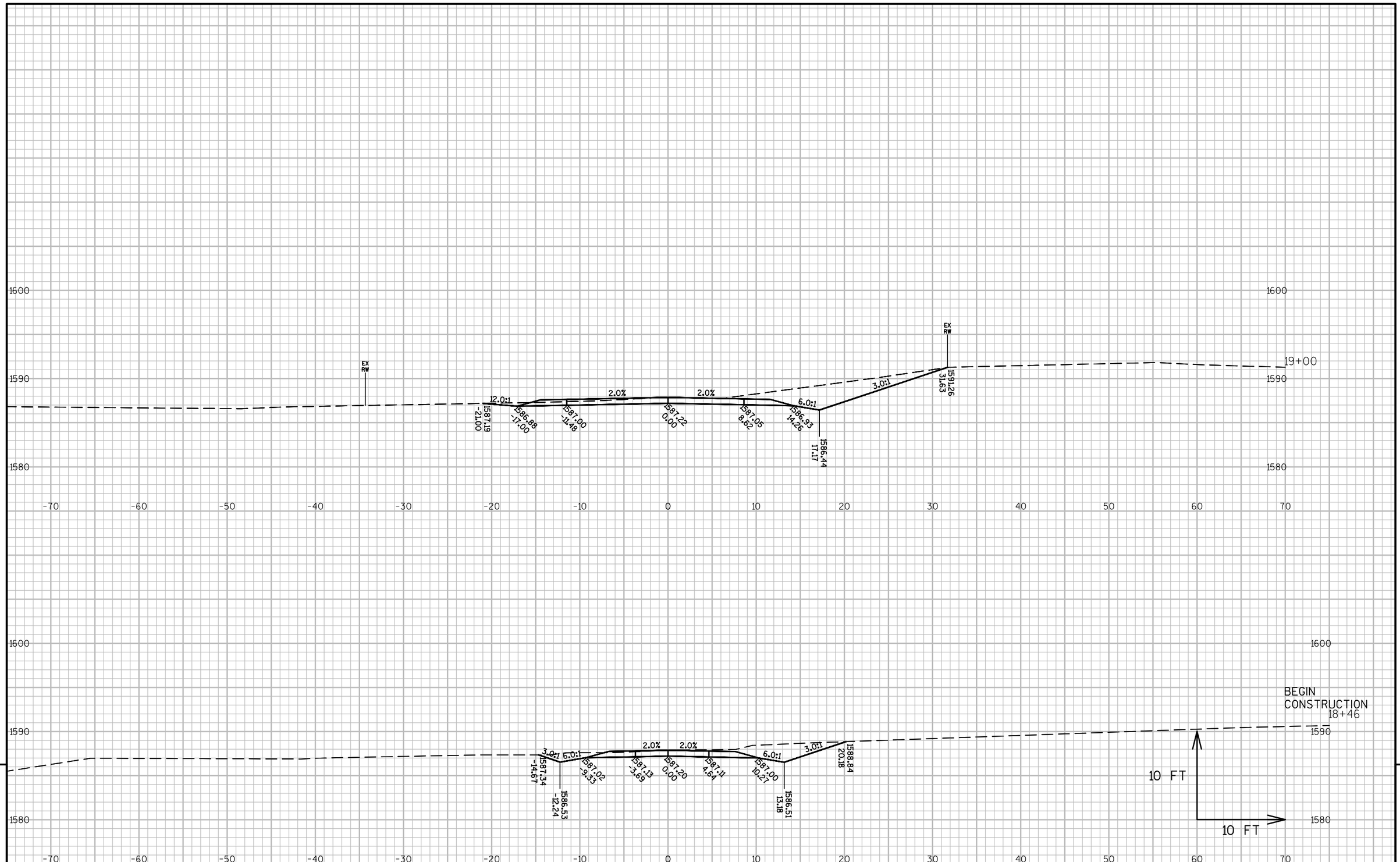
PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: CTH Y	SHEET 137	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (115)

PLOT DATE : 4/28/2017 4:04 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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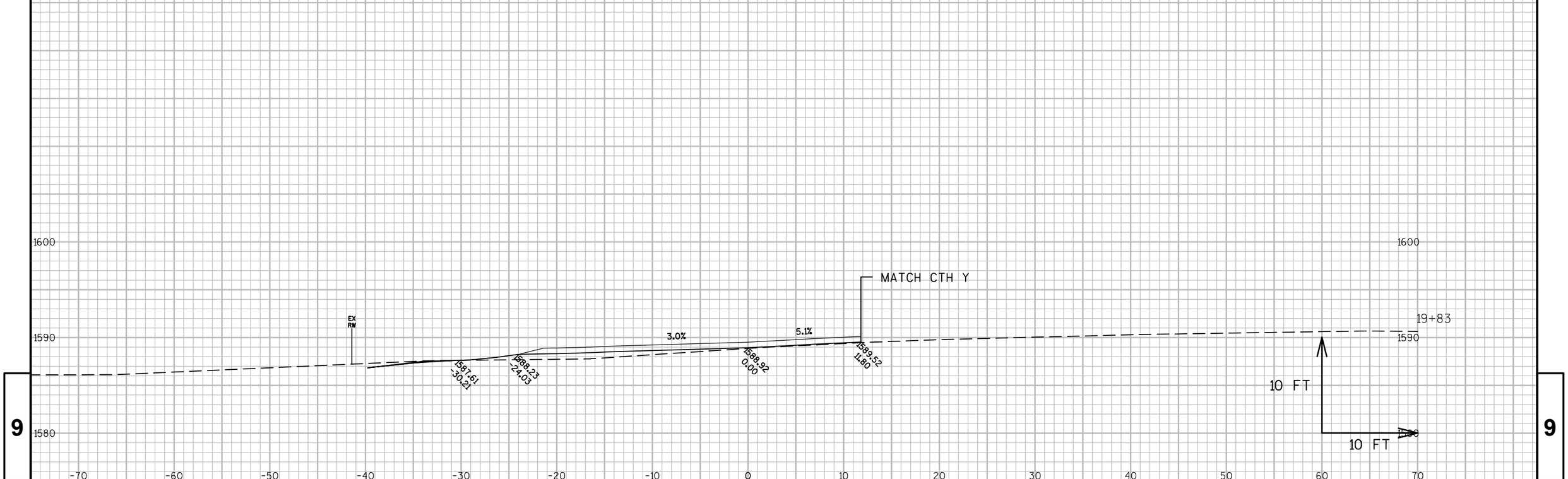
9

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: S GARTH LAKE ROAD	SHEET 138	E



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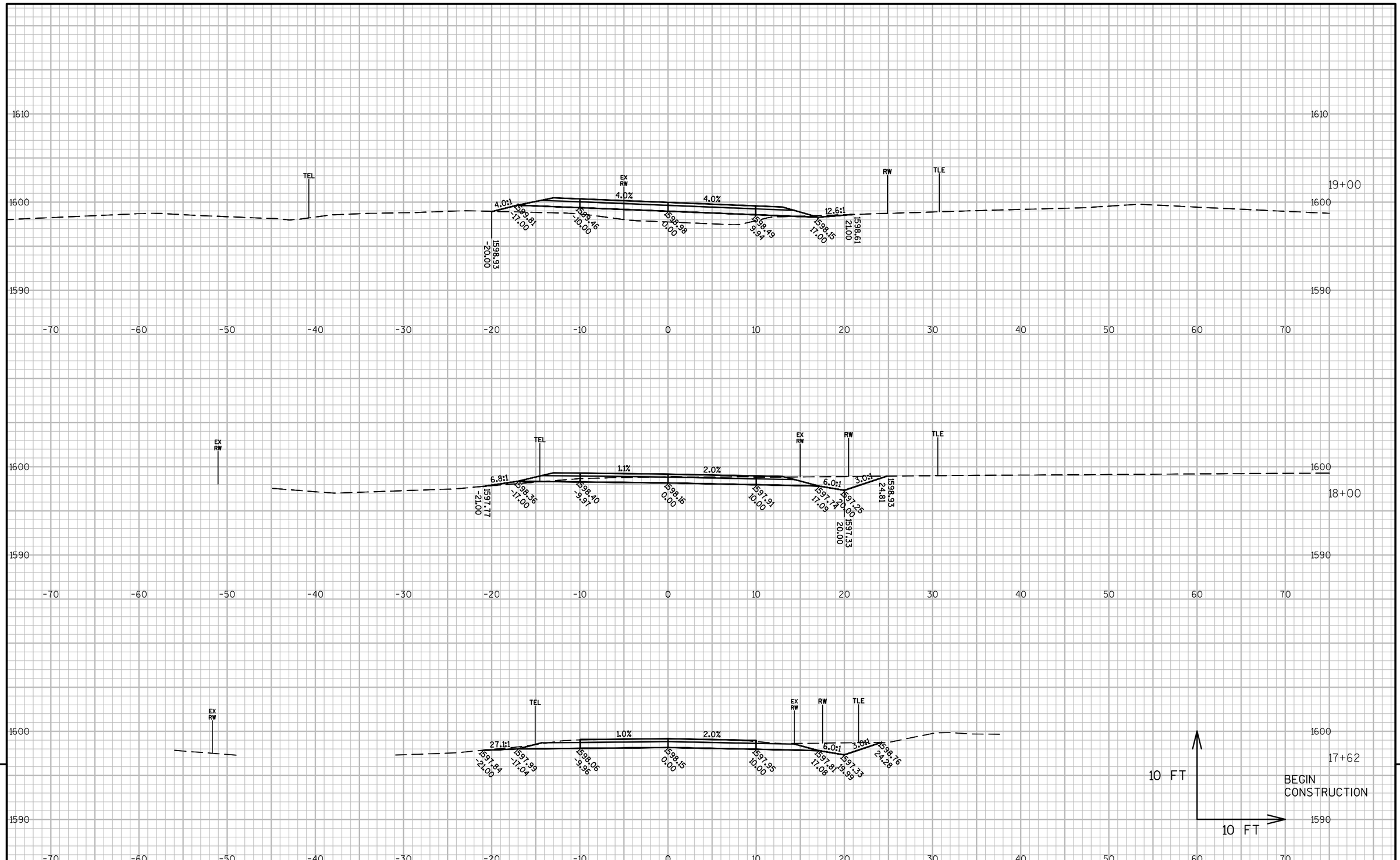
9

PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: S GARTH LAKE ROAD	SHEET 139	E



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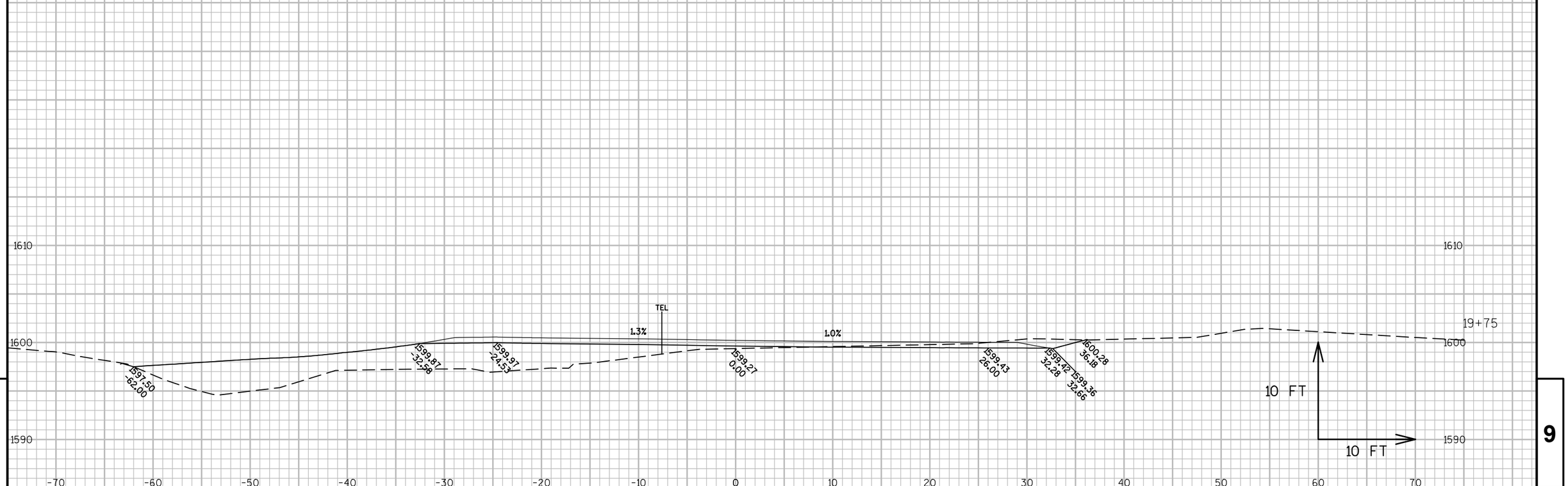
PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: SANDY BEACH	SHEET 140	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (119)
PLOT DATE : 7/5/2017 1:15 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:10 FT



9

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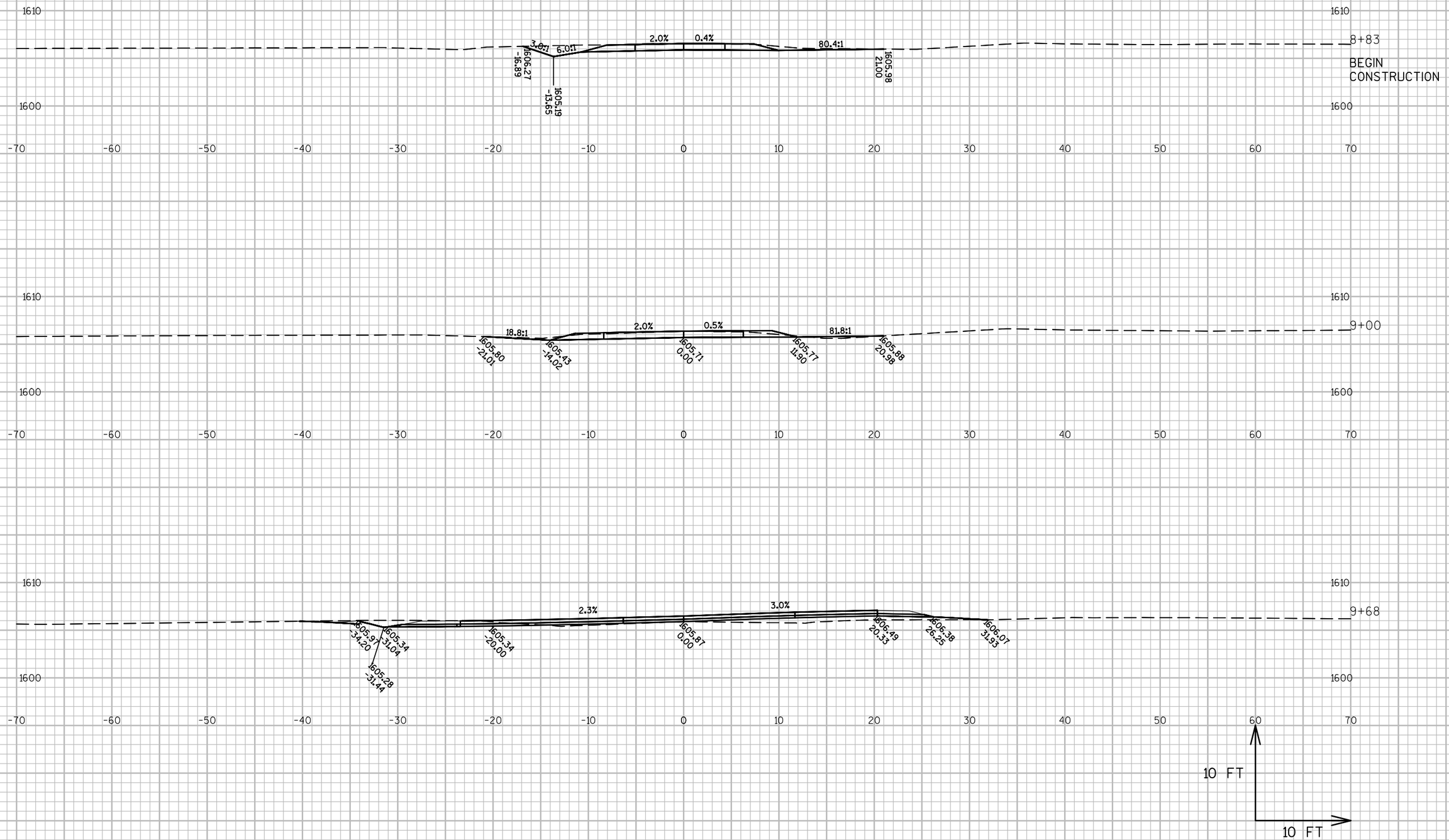
PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: SANDY BEACH	SHEET 141	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (120)

PLOT DATE : 4/28/2017 4:05 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 9465-00-70	HWY: CTH Y	COUNTY: ONEIDA	CROSS SECTIONS: DUGOUT LAKE ROAD	SHEET 142	E

FILE NAME : P:\WI - NC REGION\9465-00-00_CTH Y_ONEIDA CO\500_CADD\501_C3D\94650000\SHEETSPLAN\94650070\090202 XS.DWG
LAYOUT NAME - SECTION SHEET - (121)

PLOT DATE : 7/5/2017 1:15 PM PLOT BY : JESSICA LEWIS, PE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

Notes

Wisconsin Department of Transportation

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