WIS

APRIL 2018

PROJECT ID: 6355-00-75

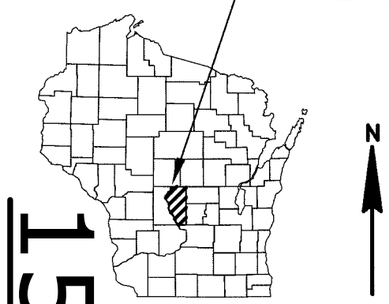
COUNTY: ADAMS COUNTY

ORDER OF SHEETS

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

TOTAL SHEETS = 322

PROJECT LOCATION



15

N

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

MONROE CENTER - WOOD COUNTY LINE

ALPINE DRIVE TO WOOD COUNTY LINE

CTH Z

ADAMS COUNTY

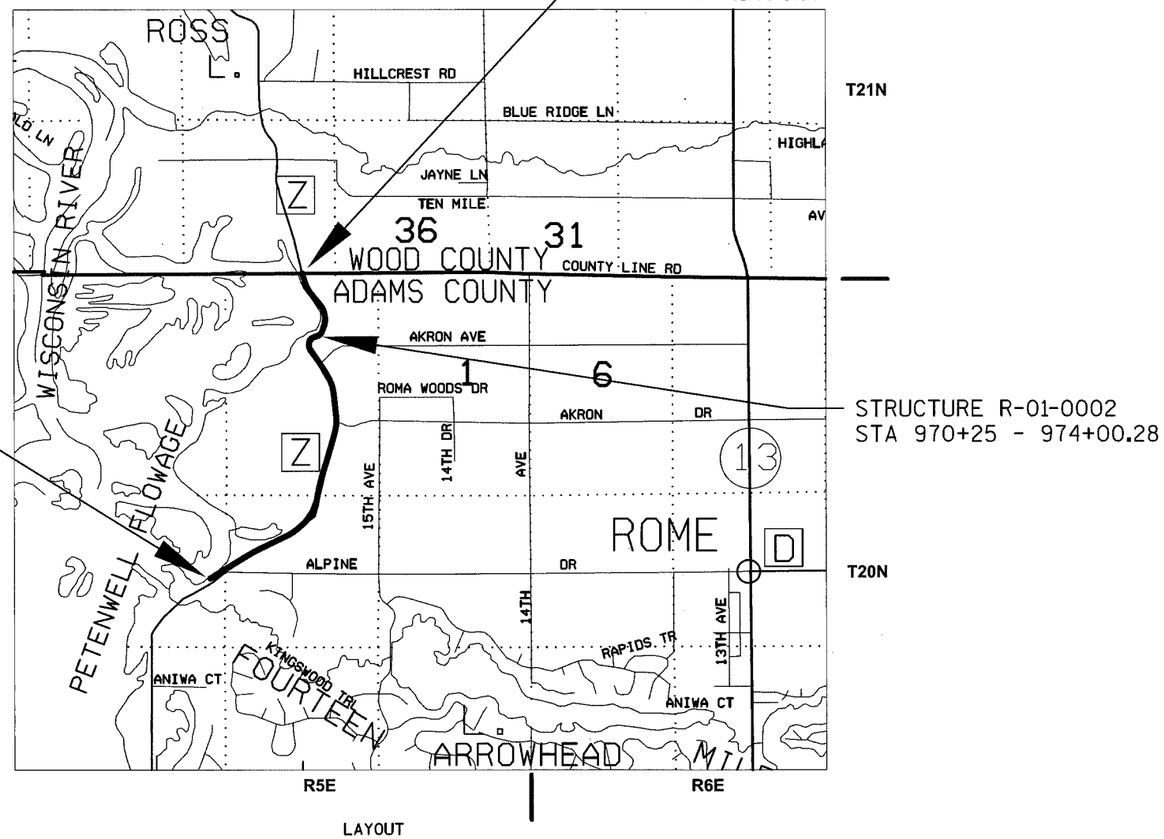
STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6355-00-75	WISC 2018198	1

STATE PROJECT NUMBER
6355-00-75

END PROJECT 6355-00-75
STA 999+22.36
Y = 321817.283
X = 517536.454

BEGIN PROJECT 6355-00-75
STA 866+00.00
Y = 311192.804
X = 514597.917

STRUCTURE R-01-0002
STA 970+25 - 974+00.28



LAYOUT
SCALE 0 1 MILE

TOTAL NET LENGTH OF CENTERLINE = 2.523

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, ADAMS 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.

DESIGN DESIGNATION

A.A.D.T.	(2018)	= 1,100
A.A.D.T.	(2038)	= 1,400
D.H.V.	(2038)	= 196
D.D.		= 60/40
T.		= 6.5%
DESIGN SPEED		= 55 mph
ESALS		= 167,900

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 (300'EB)
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

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

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

ACCEPTED FOR

County of Adams

DATE: 10/18/17 Patrick Knittel
Highway Commissioner

ORIGINAL PLANS PREPARED BY

5707 SCHOFIELD AVE.
WESTON, WISCONSIN
54476
PHONE: (715) 359-9400
FAX: (715) 355-4199
www.mi-tech.us

mi-TECH

WISCONSIN
JAY R. KNOKE
E-25023
WAUSAU, WI
PROFESSIONAL ENGINEER

DATE: 10/17/17

JAY R. KNOKE, P.E.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	MI-TECH SERVICES
Designer	MI-TECH SERVICES
Management Consultant	Cedar Corporation

APPROVED FOR THE DEPARTMENT

DATE: 11-1-2017 (Signature)

NC-LPMC

E

GENERAL NOTES

REMOVE ALL TREES WITHIN THE RIGHT OF WAY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MEASURES TAKEN TO PREVENT SOIL FROM LEAVING THE PROJECT SITE, PER WDNR BEST MANAGEMENT PRACTICES. EROSION CONTROL DEVICES SHALL BE IN PLACE PRIOR TO CONSTRUCTION. EROSION CONTROL DEVICES SHOWN ON THE PLAN ARE FOR GUIDANCE AND MAY NEED TO BE REVISED IN THE FIELD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP OF SEDIMENTATION DUE TO THE CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN AND INSPECT EROSION CONTROL AFTER EACH SIGNIFICANT RAINFALL EVENT.

RESTORE DISTURBED AREAS WITHIN THE PROJECT LIMITS, EXCEPT AREAS WITHIN THE FINISHED SHOULDER POINTS, WITH 4" MINIMUM TOPSOIL, SEED, FERTILIZER, AND MULCH OR EROSION MAT AS DIRECTED BY THE ENGINEER. RESTORE DISTURBED AREAS TO A BETTER/OR EQUAL CONDITION THAT EXISTED PRIOR TO CONSTRUCTION.

THE CONTRACTOR SHALL SAWCUT ALL EXISTING PAVEMENT PRIOR TO REPLACEMENT. REPLACE PAVED DRIVEWAYS WITH MINIMUM 2-INCHES HMA AND 6-INCHES OF BAD 1-1/4" MATERIAL. REPLACE GRAVEL DRIVEWAYS WITH 6" OF BAD 3/4-INCH MATERIAL.

THE CONTRACTOR SHALL DEVELOP AND PROVIDE A TRAFFIC CONTROL PLAN FOR CONSTRUCTION OPERATIONS. THE ENGINEER SHALL REVIEW AND APPROVE PLANS PRIOR TO CONSTRUCTION. PROVIDE ACCESS FOR LOCAL RESIDENTS, BUSINESSES, AND EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR SHALL MAINTAIN AND KEEP TRAFFIC CONTROL DEVICES IN GOOD WORKING CONDITION THROUGHOUT THE CONSTRUCTION.

THE CONTRACTOR SHALL BACKFILL ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM THE ABANDONMENT OR REMOVAL OF EXISTING PIPES, OR FROM GRUBBING OF TREES OR STUMPS WITH GRANULAR MATERIAL. THIS WORK SHALL BE INCIDENTAL TO THE COST OF THE REMOVAL ITEM.

QUANTITIES ARE BASED ON SOIL SHRINKAGE OF 25%.

WHEN THE QUANTITY OF THE ITEM OF BASE LAYER 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 UPON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

THE VERTICAL DATUM FOR THIS PROJECT IS REFERENCED TO THE NGVD 1929.

THE LOW SIDE SHOULDER SLOPE ON SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION WHEN THE SUPERELEVATION IS GREATER THAN 0.04 FT/FT. IF THE SUPERELEVATION IS LESS THAN OR EQUAL TO 0.04 FT/FT THE LOW SIDE SHOULDER IS 0.04 FT/FT, THE HIGH SIDE SHOULDER SLOPE ON SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION.

THE BASE MAPPING AND UTILITIES SHOWN ON THE PLANS ARE IN PART, COMPILED FROM INFORMATION FURNISHED BY OTHERS. MI-TECH SERVICES, INC. WILL NOT BE RESPONSIBLE FOR ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT. ALL UTILITIES SHALL BE FIELD LOCATED PRIOR TO CONSTRUCTION.

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

STANDARD ABBREVIATIONS

AH	AHEAD
AADT	ANNUAL AVERAGE DAILY TRAFFIC
ASPH	ASPHALTIC
APM	ASPHALTIC PLANT MIX
AVG	AVERAGE
BK	BACK
BOP	BEGIN OF PROJECT
BM	BENCH MARK
CL OR C/L	CENTER LINE
DELTA	CENTRAL ANGLE OR DELTA
CH	CHORD
CE	COMMERCIAL ENTRANCE
CONC	CONCRETE
CO	COUNTY
CTH	COUNTY TRUNK HIGHWAY
CABC	CRUSHED AGGREGATE BASE COURSE
CY OR CUYD	CUBIC YARD
CP	CULVERT PIPE
D	DEGREE OF CURVE
DHV	DESIGN HOUR VOLUME
DIA	DIAMETER
E	EAST
X	EAST GRID COORDINATE
ELEC	ELECTRIC (AL)
EL OR ELEV	ELEVATION
EAT	ENERGY ABSORBING TERMINAL
EOP	END OF PROJECT
ESALS	EQUIVALENT SINGLE AXLE LOADS
EXC	EXCAVATION
EBS	EXCAVATION BELOW SUBGRADE
EXIST	EXISTING
FE	FIELD ENTRANCE
FL OR F/L	FLOW LINE
FT	FOOT
HE	HIGHWAY EASEMENT
CWT	HUNDREDWEIGHT
I	INTERSECTION ANGLE
INV	INVERT
IP	IRON PIPE OR PIN
LT	LEFT
LHF	LEFT-HAND FORWARD
L	LENGTH OF CURVE
LIN FT OR LF	LINEAR FOOT
LS	LUMP SUM
MAG	CONTROL POINT TIE NAIL
MATL	MATERIAL
MB	MESSAGE BOARD
NOM	NOMINAL
NC	NORMAL CROWN
NW OR N/W	NORMAL WATER
N	NORTH
Y	NORTH GRID COORDINATE
PAVT	PAVEMENT
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
POC	POINT ON CURVE
POT	POINT ON TANGENT
LB	POUND
PE	PRIVATE ENTRANCE
PL	PROPERTY LINE
R	RADIUS OR RANGE
REQD	REQUIRED
RW	RETAINING WALL
RT	RIGHT
RHF	RIGHT-HAND FORWARD
R/W	RIGHT-OF-WAY
RD	ROAD
SCP	SURVEY CONTROL POINT
SEC	SECTION
SHLDR	SHOULDER
S	SOUTH
SQ	SQUARE
SF OR SQ FT	SQUARE FEET
SY OR SQ YD	SQUARE YARD
STD	STANDARD
SDD	STANDARD DETAIL DRAWINGS
STH	STATE TRUNK HIGHWAYS
STA	STATION
SE	SUPERELEVATION
TEL	TELEPHONE
TLE	TEMPORARY LIMITED EASEMENT
T	TOWN OR TRUCKS (PERCENT OF) OR TANGENT
TYP	TYPICAL
UG	UNDERGROUND
VAR	VARIABLE
V	VELOCITY OR DESIGN SPEED
VERT	VERTICAL
VC	VERTICAL CURVE
VPC	VERTICAL POINT OF CURVE
VPI	VERTICAL POINT OF INTERSECTION
VPRC	VERTICAL POINT OF REVERSE CURVE
VPT	VERTICAL POINT OF TANGENCY
W	WEST
YD	YARD

UTILITIES

ADAMS-COLUMBIA ELECTRIC COOPERATIVE
401 E. LAKE STREET
PO BOX 70
FRIENDSHIP, WI 53934
(800) 831-8629 x216
JIM GOODMAN
jgoodman@acecwi.com

SOLARUS
440 E. GRAND AVENUE
WISCONSIN RAPIDS, WI 54494
(715) 421-8172
DENNIS PIERCE
pierce@solarus.net

AMERICAN TRANSMISSION COMPANY
P.O. BOX 6113
DE PERE, WI 54115
(920) 338-6573
MATT ERNST
mernst@atcllc.com

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

DNR CONTACT

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
3911 FISH HATCHERY ROAD
FITCHBURG, WI 53711
ANDREW BARTA
PHONE: (608) 275-3308
andrew.barta@wisconsin.gov

DESIGN CONTACT

MI-TECH SERVICES, INC.
5707 SCHOFIELD AVENUE
WESTON, WI 54476
JAY KNOKE
PHONE: (715) 409-9506
jknoke@mi-tech.us

ADAMS COUNTY HIGHWAY DEPARTMENT

PAT KOTLOWSKI, HIGHWAY COMMISSIONER
1342 CTH F
ADAMS, WI 53910
PHONE: (608) 339-3355
pkotlowski@co.adams.wi.us

SECTION 2 SHEET ORDER

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
INTERSECTION DETAILS
EROSION CONTROL
PERMANENT SIGNING
PAVEMENT MARKING
TRAFFIC CONTROL
DETOUR
ALIGNMENT DIAGRAM
CONTROL POINT TIES

2

WOOD COUNTY
ADAMS COUNTY

CTH Z

END PROJECT 6355-00-75
STA 999+22.36

N

Akron Avenue

Petenwell Flowage

1

Roma Woods Drive

Akron Drive

15th Avenue

CTH Z

BEGIN PROJECT 6355-00-75
STA 866+00.00

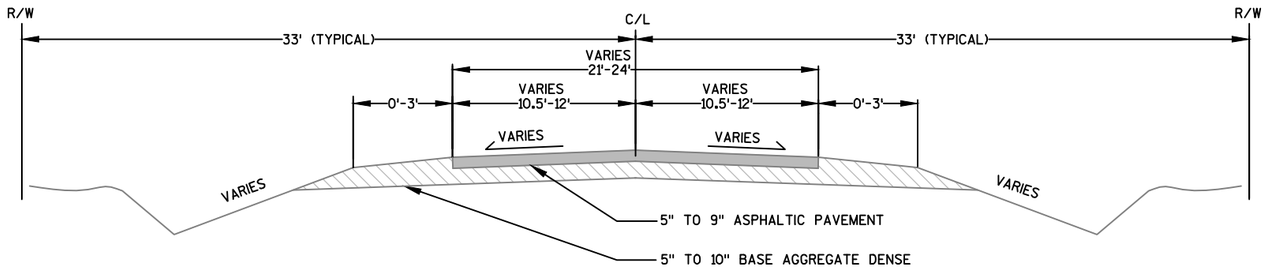
Alpine Drive

PROJECT NO:6355-00-75	HWY:CTH Z	COUNTY:ADAMS	PROJECT OVERVIEW	SHEET 3	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\SHEETSPLAN\010101_TI.DWG PLOT DATE : 10/4/2017 6:37 AM PLOT BY : ANDREW LEE PLOT NAME : _____

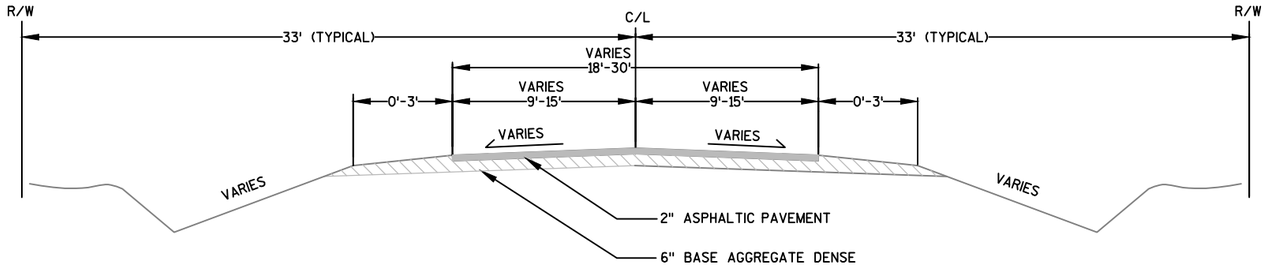
WISDOT/CADDS SHEET 42

2



TYPICAL EXISTING SECTION - CTH Z

STA 866+00.00 TO STA 999+22.36

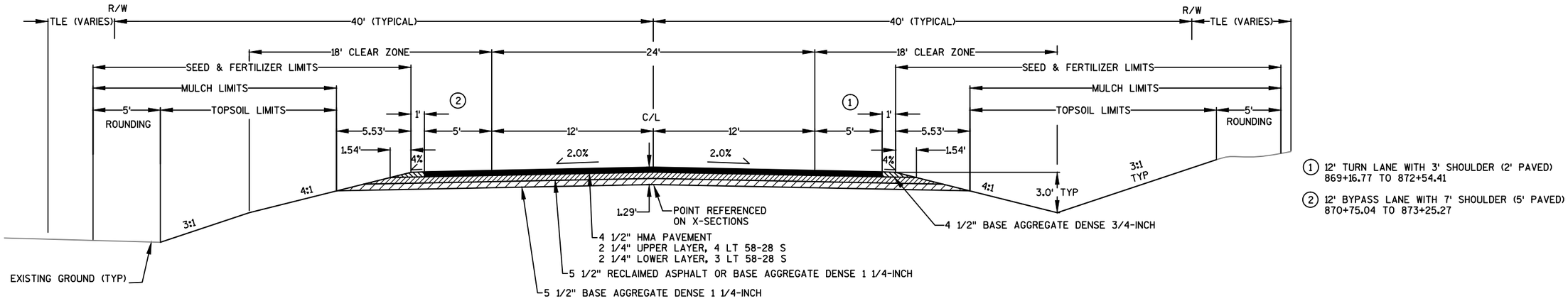


TYPICAL EXISTING SECTION - SIDE ROADS

PAVEMENT BORING LOG

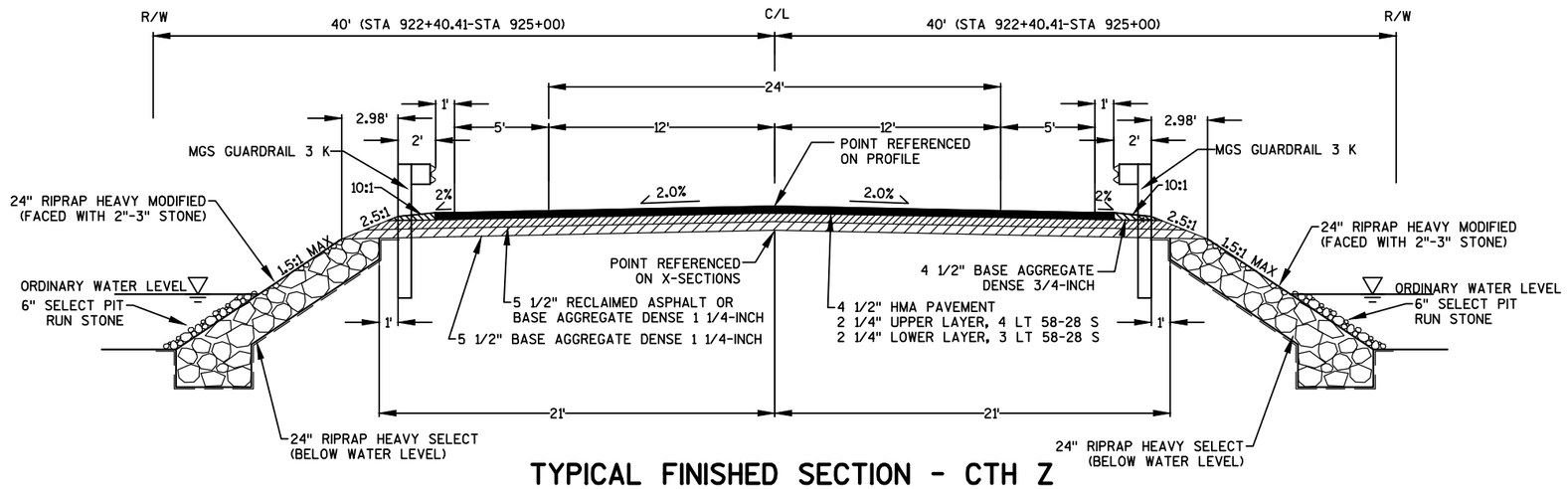
BORING NO.	STATION LOCATION	ELEVATION	EXISTING HMA (In.)	EXISTING AGGREGATE (In.)
B-17	912+85, RIGHT CENTER	933.2	6.0"	
B-18	948+85, LEFT CENTER	935.4	7.0"	7.0"-9.0"
B-19	982+85, RIGHT EDGE	928.2	5.0"	5.0"-10.0"
B-20	993+85, LEFT EDGE	928.7	9.0"	

2



TYPICAL FINISHED SECTION - CTH Z

STA 866+00.00 - STA 877+55.56
STA 885+82.99 - STA 894+46.13
STA 914+38.38 - STA 915+62.45
STA 921+83.89 - STA 921+89.64
STA 925+00.00 - STA 935+62.45
STA 943+75.63 - STA 949+11.07
STA 964+16.17 - STA 966+58.16
STA 999+13.00 - STA 999+22.36

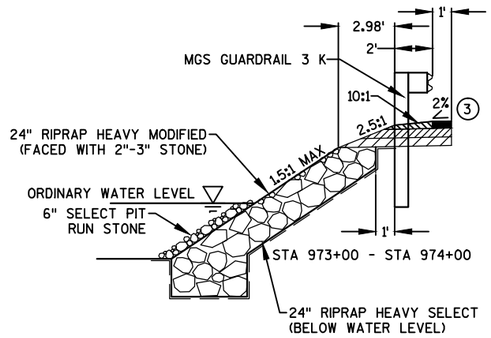


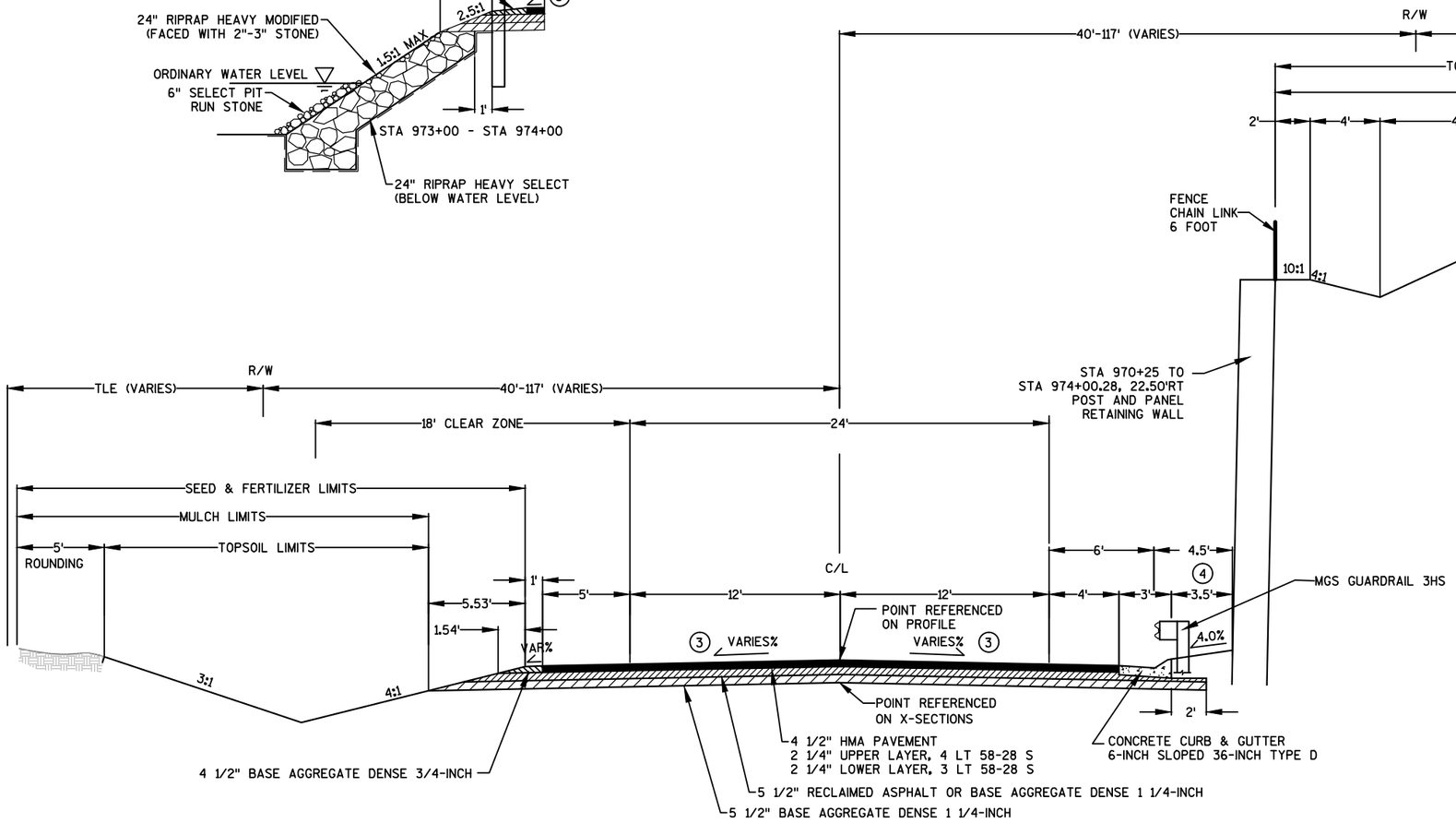
TYPICAL FINISHED SECTION - CTH Z

STA 921+89.64 TO STA 925+00

PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	TYPICAL SECTIONS	SHEET 5	E

2





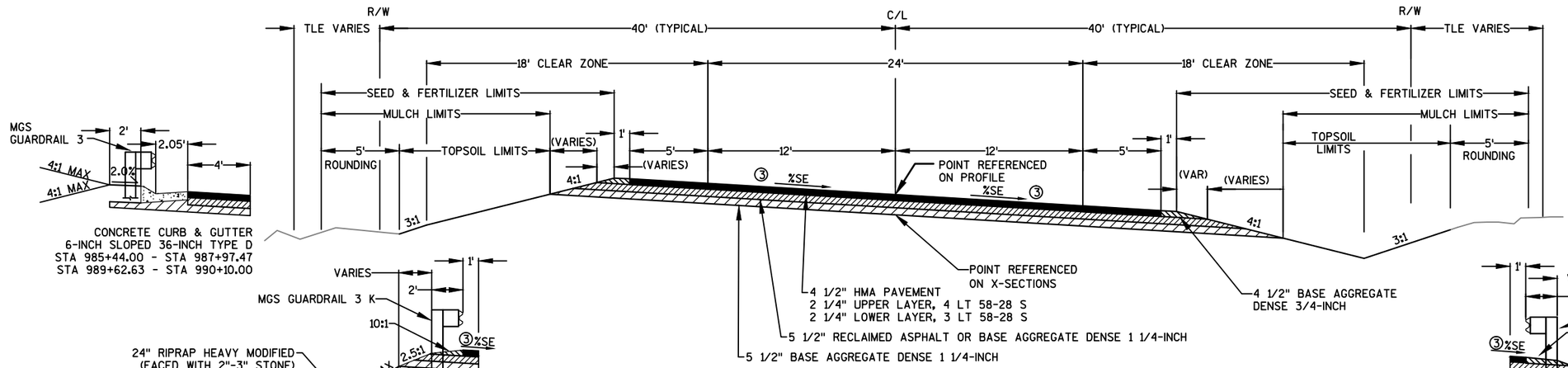
TYPICAL FINISHED SECTION - CTH Z

STA 970+00 TO STA 974+00

(3) REFER TO CROSS SECTIONS AND ALIGNMENT DETAILS FOR SUPER ELEVATION REQUIREMENTS

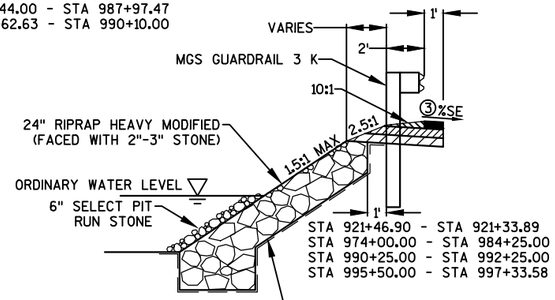
(4) MOW STRIP ASPHALT

PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	TYPICAL SECTIONS	SHEET 6	E



③ REFER TO CROSS SECTIONS AND ALIGNMENT DETAILS FOR SUPER ELEVATION REQUIREMENTS

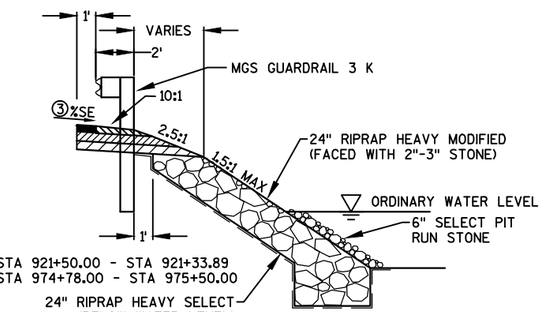
CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE D
STA 985+44.00 - STA 987+97.47
STA 989+62.63 - STA 990+10.00



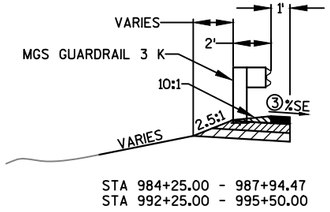
STA 921+46.90 - STA 921+33.89
STA 974+00.00 - STA 984+25.00
STA 990+25.00 - STA 992+25.00
STA 995+50.00 - STA 997+33.58

SUPERELEVATION TYPICAL FINISHED SECTION - CTH Z

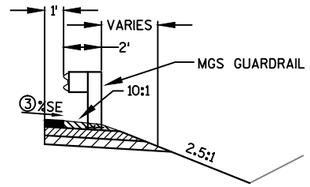
STA 878+08.26 - STA 885+82.99
STA 894+46.13 - STA 914+38.38
STA 915+63.07 - STA 921+33.89
STA 935+62.45 - STA 943+75.63
STA 949+11.07 - STA 964+16.17
STA 966+58.16 - STA 970+00.00
STA 974+00.00 - STA 987+97.47
STA 989+62.63 - STA 997+33.58



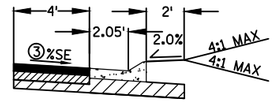
STA 921+50.00 - STA 921+33.89
STA 974+78.00 - STA 975+50.00



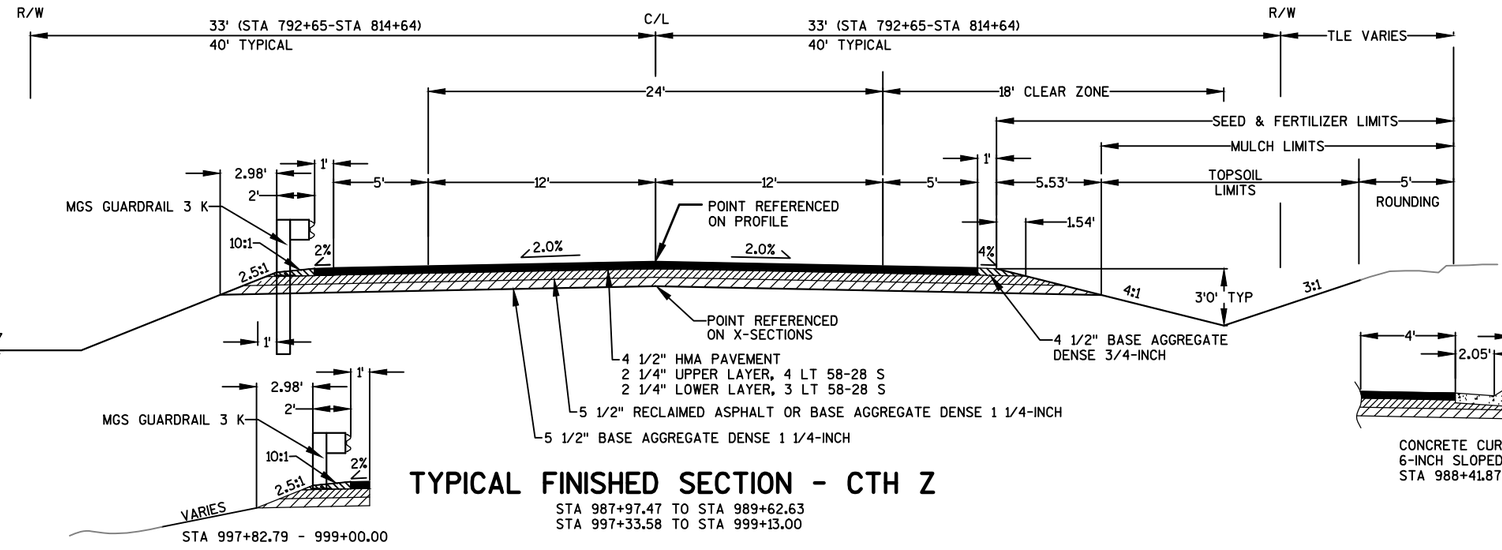
STA 984+25.00 - STA 987+94.47
STA 992+25.00 - STA 995+50.00

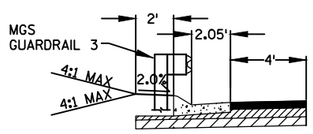


STA 974+00.00 - STA 974+78.00



CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE D
STA 985+44.00 - STA 987+97.47
STA 989+62.63 - STA 992+00.00



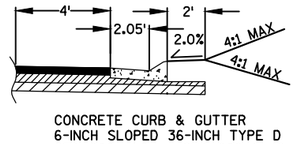


CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE D
STA 988+41.87 - STA 989+13.42

STA 997+82.79 - 999+00.00

TYPICAL FINISHED SECTION - CTH Z

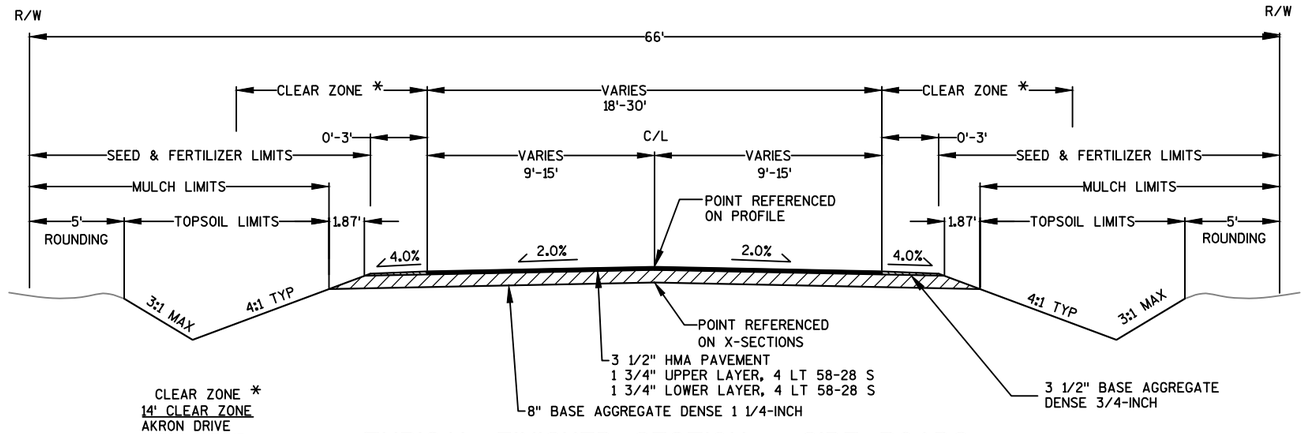
STA 987+97.47 TO STA 989+62.63
STA 997+33.58 TO STA 999+13.00



CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE D
STA 988+41.87 - STA 989+13.42

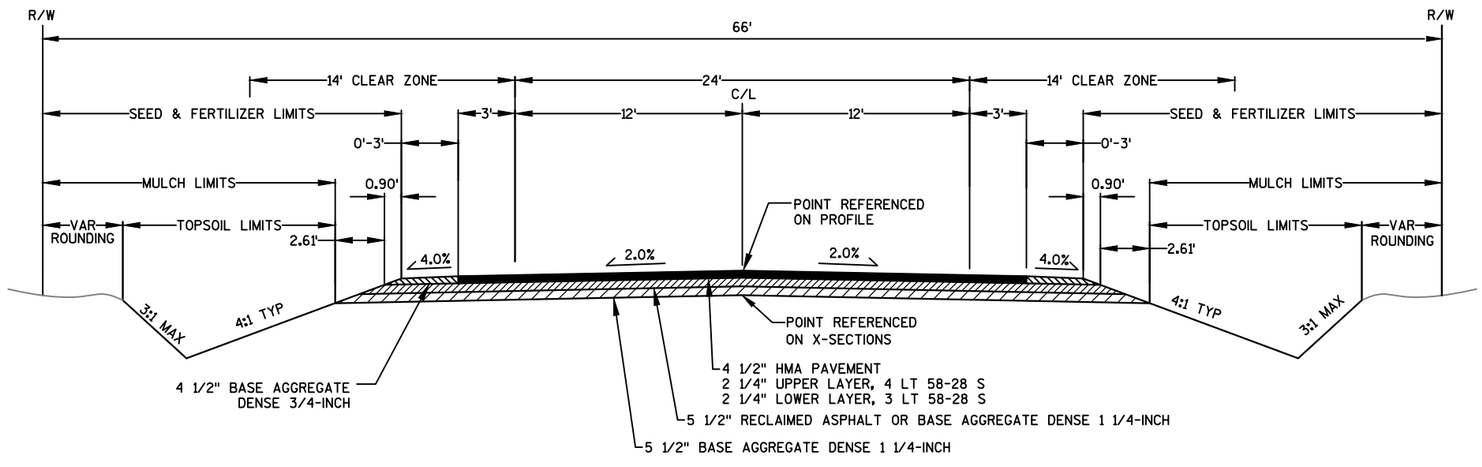
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	TYPICAL SECTIONS	SHEET 7	E

2



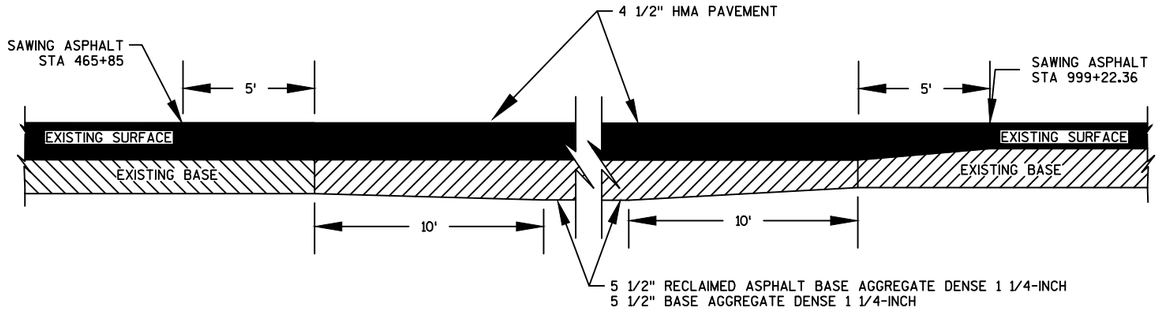
TYPICAL FINISHED SECTION - SIDE ROADS

AKRON DRIVE
AKRON AVENUE

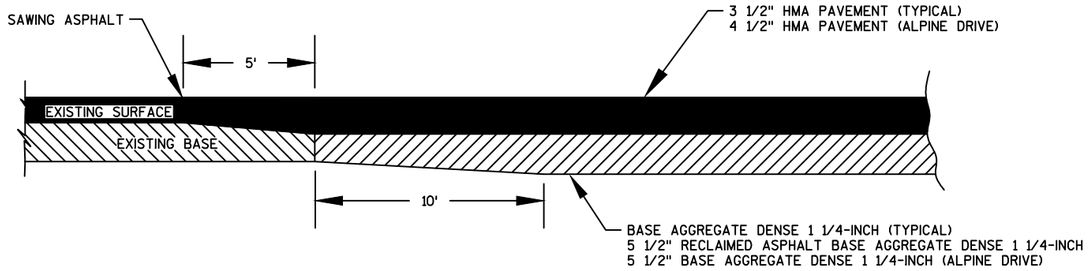


TYPICAL FINISHED SECTION - ALPINE DRIVE

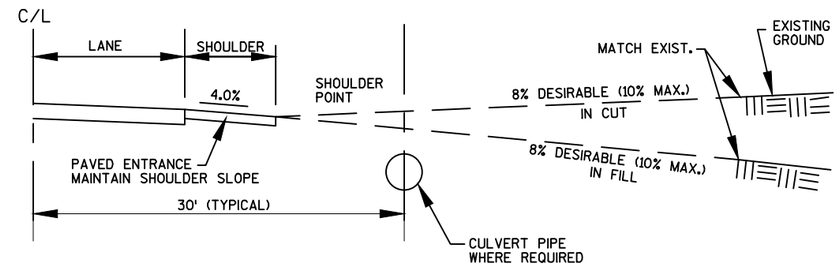
STA 160+00.00 TO STA 161+05.50



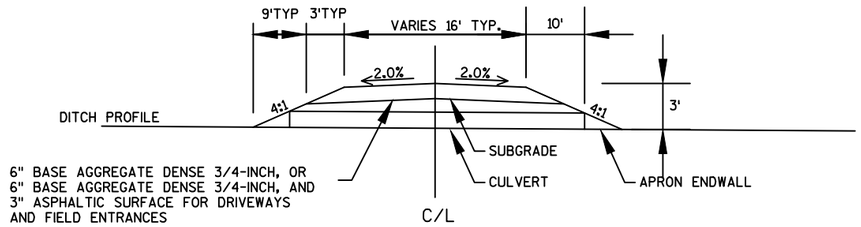
MAIN LINE CONSTRUCTION JOINT



SIDE ROAD CONSTRUCTION JOINT



TYPICAL DRIVEWAY PROFILES



RUNOFF COEFFICENT 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
MEDIAN STRIP-TURF	.19	.20	.24	.19	.22	.26	.20	.25	.30	.20	.25	.30
	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.38
SIDE SLOPE-TURF			.25			.27			.28			.30
			.32			.34			.36			.38
PAVEMENT :												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.70 - .60											

TOTAL PROJECT AREA = 27.54 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 22.95 ACRES

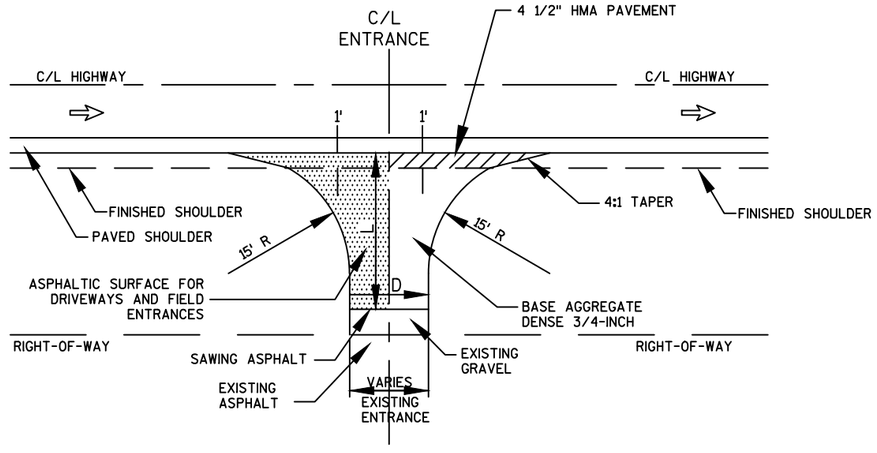
TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE

LEGEND:

ASPHALTIC PAVEMENT THROUGH DRIVEWAY

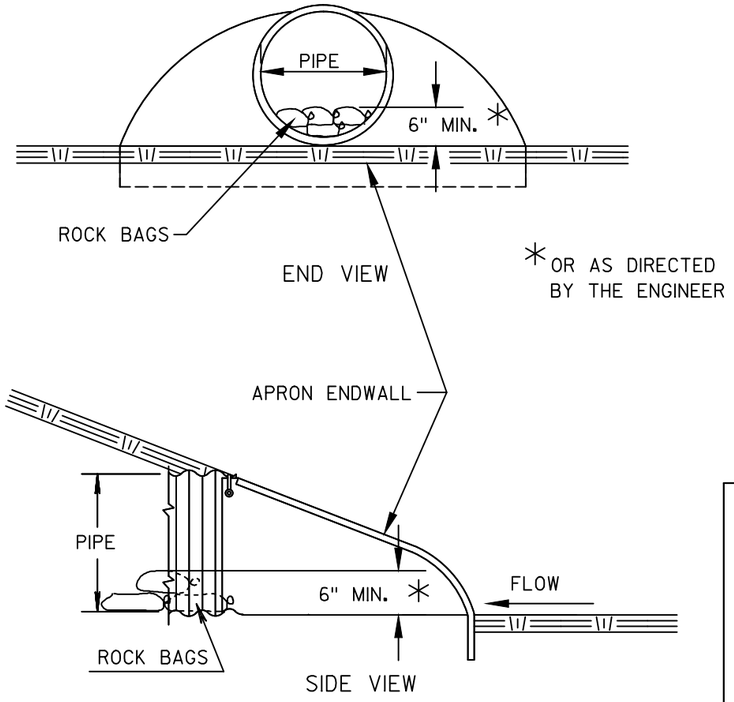
NOTE: RADIUS IS TANGENT AT PAVED SHOULDER EDGE
D = DRIVEWAY WIDTH (MATCH EXISTING)
D = 16' TYP (PE'S & FE'S) (10' MIN. - 24' MAX.)
D = 24' TYP (CE'S & FARM ENT) (24' MIN. - 60' MAX.)

L = VARIABLE, EXACT LENGTH TO BE DETERMINED IN THE FIELD BY THE ENGINEER.



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

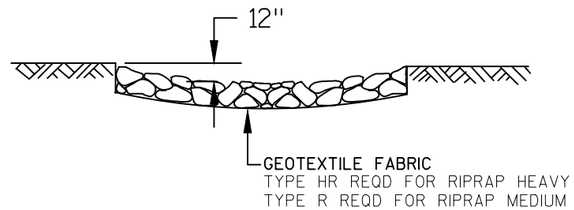
FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\SHEETSPLAN\021001-CD.DWG
LAYOUT NAME - ****
PLOT DATE : 2/8/2018 8:46 AM PLOT BY : ANDREW LEE PLOT NAME : _____ PLOT SCALE : **********
WISDOT/CADDS SHEET 42



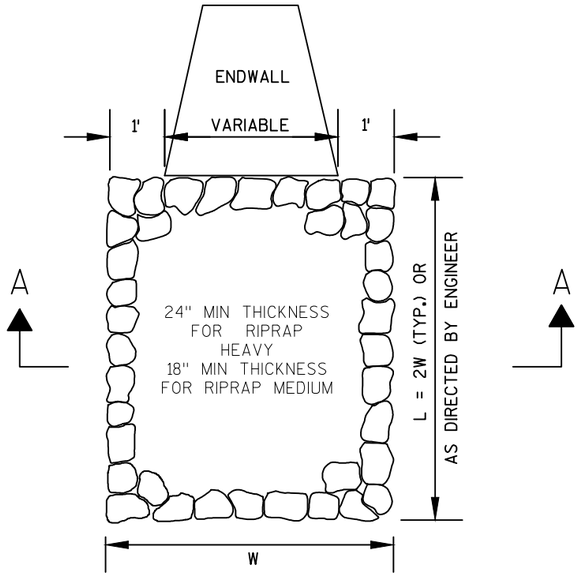
* OR AS DIRECTED BY THE ENGINEER

PIPE SIZE	ESTIMATED NUMBER OF ROCK BAGS
15"	1
18"	2
24"	3

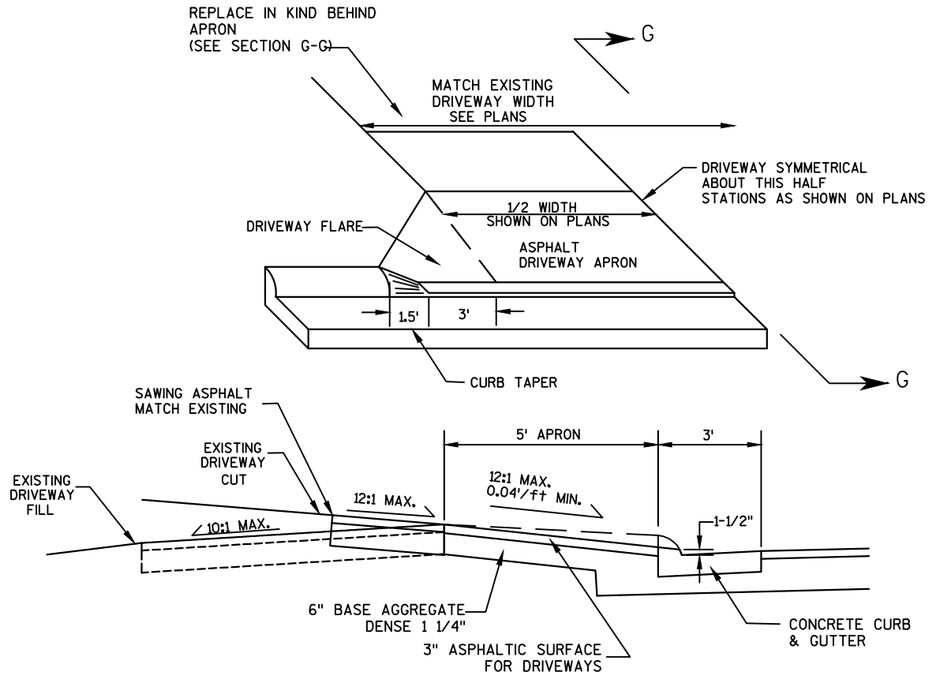
CULVERT PIPE CHECKS



SECTION A-A

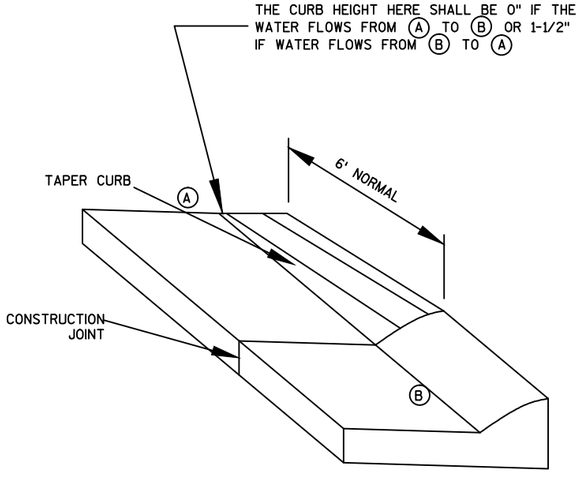


RIPRAP TREATMENT AT CULVERTS

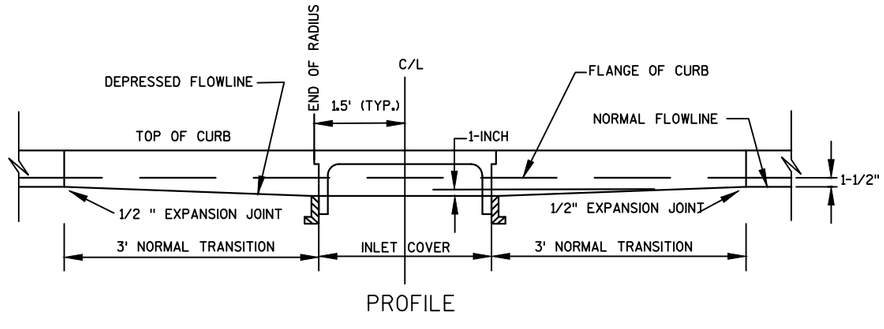


SECTION G-G

DRIVEWAY DETAIL
CURB & GUTTER AND ASPHALT APRON



CURB TERMINI



PROFILE

DEPRESSED GUTTER AT INLETS

NOT TO SCALE

PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	PLAN: CONSTRUCTION DETAILS	SHEET 10	E

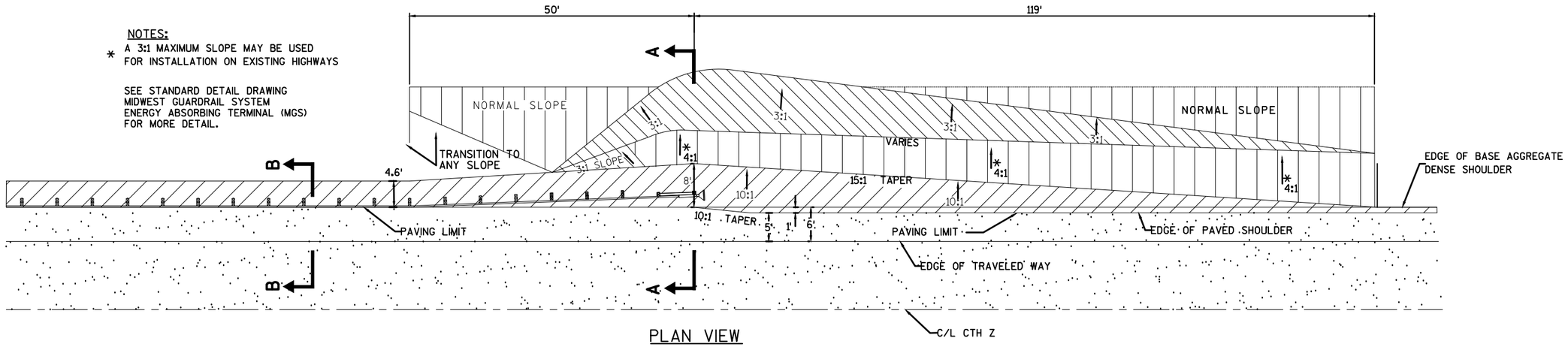
2

BASE AGGREGATE DENSE (SHOULDER)

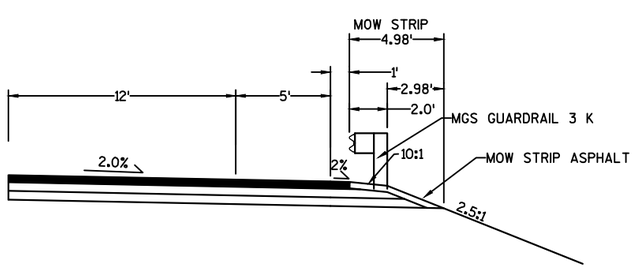
HMA PAVEMENT

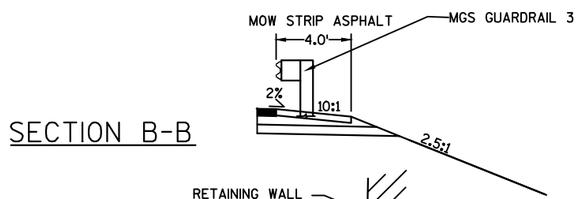
NOTES:
* A 3:1 MAXIMUM SLOPE MAY BE USED FOR INSTALLATION ON EXISTING HIGHWAYS

SEE STANDARD DETAIL DRAWING
MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)
FOR MORE DETAIL.

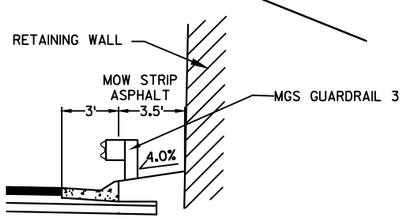


PLAN VIEW





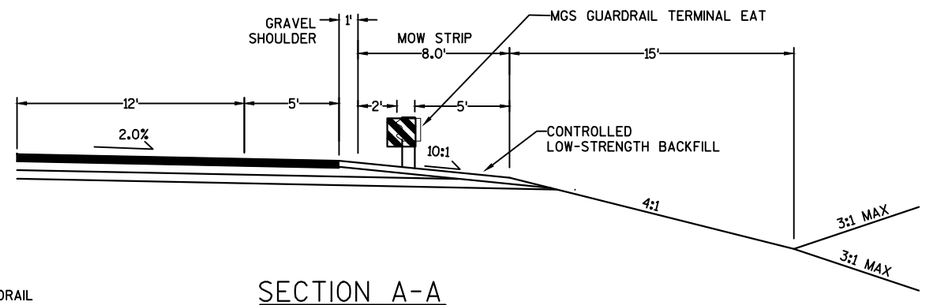
SECTION B-B



STA 970+00 TO STA 974+00

NOTE:
SEE STANDARD DETAIL DRAWINGS:
GUARDRAIL MOW STRIP
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
MIDWEST GUARDRAIL SYSTEM (MGS) TERMINAL
FOR MORE INFORMATION

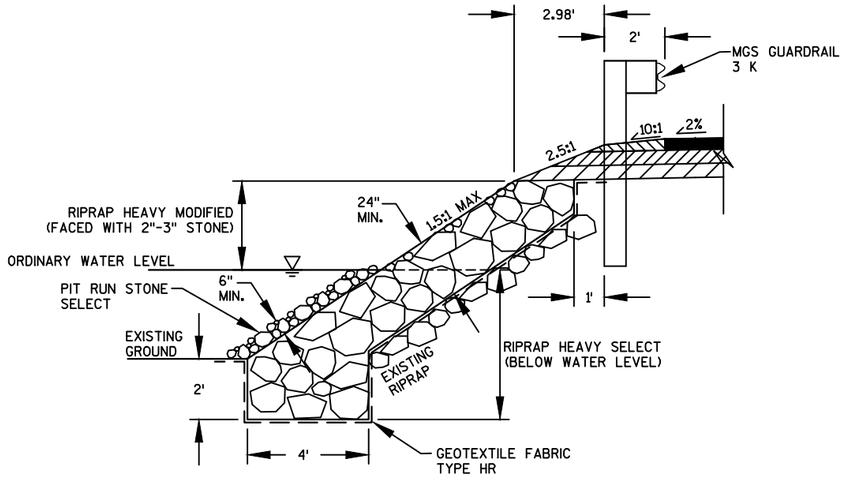
BEAM GUARD DETAIL



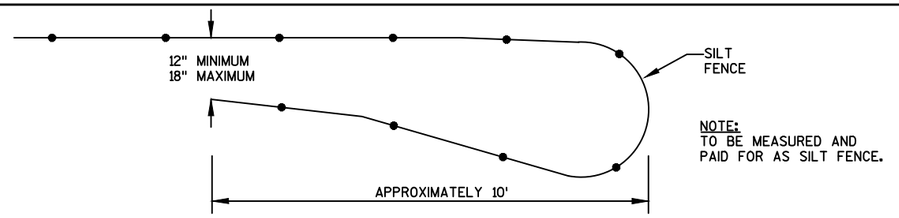
SECTION A-A

PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	PLAN: CONSTRUCTION DETAILS	SHEET 11	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\SHEETSPLAN\021001-CD.DWG
LAYOUT NAME - ****
PLOT DATE : 2/8/2018 8:46 AM
PLOT BY : ANDREW LEE
PLOT NAME : _____ PLOT SCALE : **********
WISDOT/CADDS SHEET 42



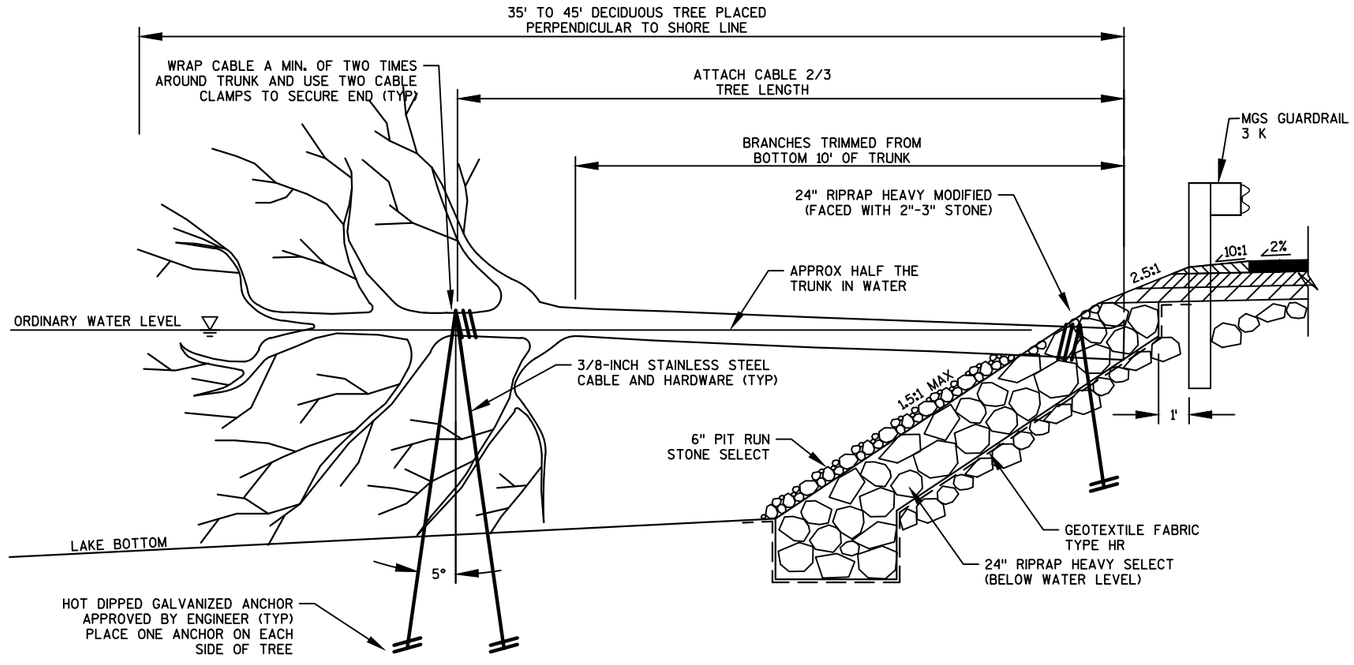
SHORELINE PROTECTION



NOTE:
TO BE MEASURED AND
PAID FOR AS SILT FENCE.

SNAKE/TURTLE TURN-AROUND DETAIL

STA 866+00 LT	STA 171+50 LT & RT
STA 870+00 LT	STA 942+00 LT & RT
STA 893+00 LT	STA 970+00 LT
STA 903+00 LT	STA 973+00 LT
STA 903+25 LT	STA 976+00 RT
STA 903+25 RT	STA 978+80 RT
STA 915+50 RT	STA 979+10 RT
STA 921+50 RT	STA 980+00 RT
STA 922+50 LT	STA 984+50 LT
STA 923+25 RT	STA 990+00 LT
STA 923+30 LT	STA 992+50 LT
STA 923+25 RT	STA 995+50 LT
STA 928+00 LT & RT	STA 997+30 LT
STA 931+50 RT	STA 999+25 LT
STA 937+50 LT	



FISH HABITAT STRUCTURE TREES

STA 972+00 LT
STA 974+00 LT (2)
STA 977+00 LT
STA 979+75 LT
STA 980+25 LT
STA 983+00 LT

2

KEVIN D. COLE &
DEBRA R. COLE

HOUSE

ELECTRIC BOX

VENT

PL

DECK, STAIR AND DOCK

PLANTER

VENT

GUARD RAIL

REMOVING GUARDRAIL
STA 970+18-999+10, LT

OBLITERATE OLD ROAD
STA 968+50-973+00, LT

SLOPE INTERCEPT

REMOVING ASPHALTIC SURFACE
STA 968+50-973+00, LT

LOT 1
MARY M.
HERMAN

CEDAR FENCE

R/W

FIRE NO.
117

DRAINAGE
FLOW ARROWS

CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE D
STA 970+00 - 974+00

STA 970+00 LT, RT
72 LF CULVERT PIPE
CLASS III-A 15-INCH
2- APRON ENDWALLS FOR
CULVERT PIPE STEEL 15-IN
IE = 928.40 (W)
IE = 929.06 (E)

LOT 2
NDRA DEMBICKI TRUST
KIUSZ DEMBICKI TRUST

30 LF CULVERT PIPE
CLASS III-A 15-INCH
W/2 APRON ENDWALLS FOR
CULVERT PIPE 15-INCH
35.5' LT

FIRE NOS.
119,121&123

DRIVE
PRIVATE

PHONE
PED

STA 969+17
GRAV PE

970+00

971+00

972+00

973+00

974+00

C/L 969+00

968+00

967+00

PC: 967+34.82

PRC: 973+59.24

R/W

PL

CURVE NO. 19

TLE FOR
FISH HABITAT

SEE GUARD RAIL
DETAIL SHEETS

FISH HABITAT
STRUCTURE TREES
(TYP)

PLE FOR
RIPRAP SLO

EDGE OF WATER

SLOPE INTERCEPT

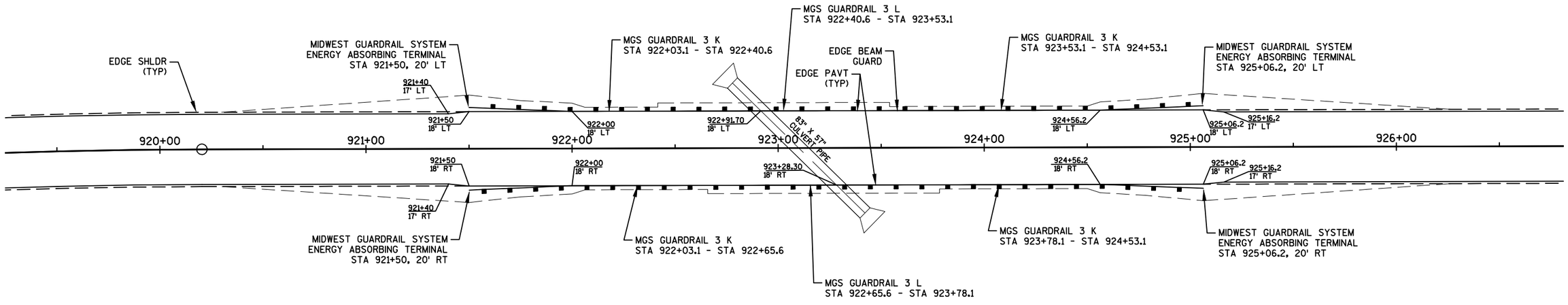
GUARD

PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	PLAN: CONSTRUCTION DETAILS - DEVILS ELBOW	SHEET 13	E

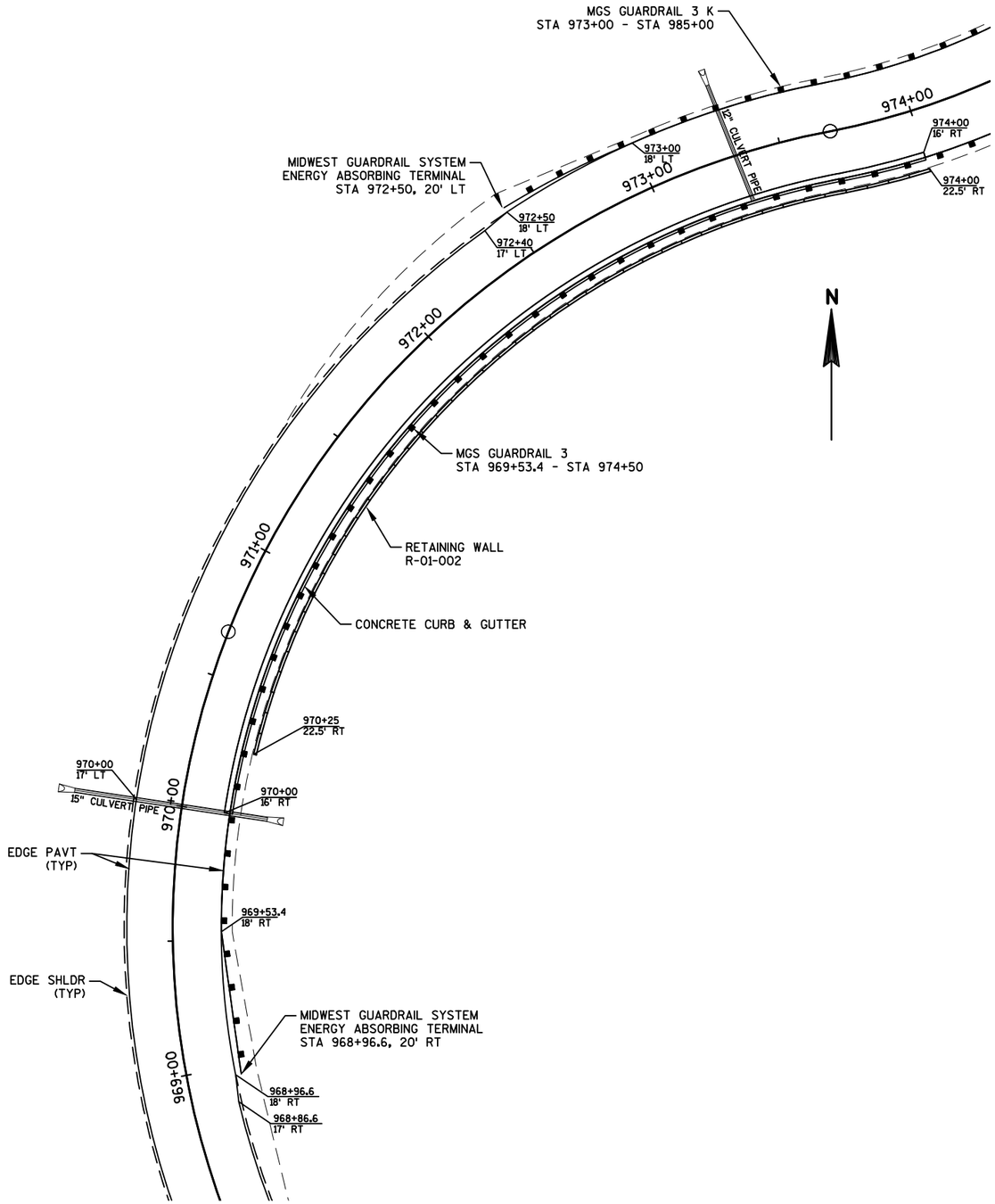
FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\SHEETSPLAN\021005-CD.DWG
LAYOUT NAME - ****
PLOT DATE : 10/4/2017 7:04 AM PLOT BY : ANDREW LEE PLOT NAME : ---------- PLOT SCALE : **********
WISDOT/CADDS SHEET 42

2

N

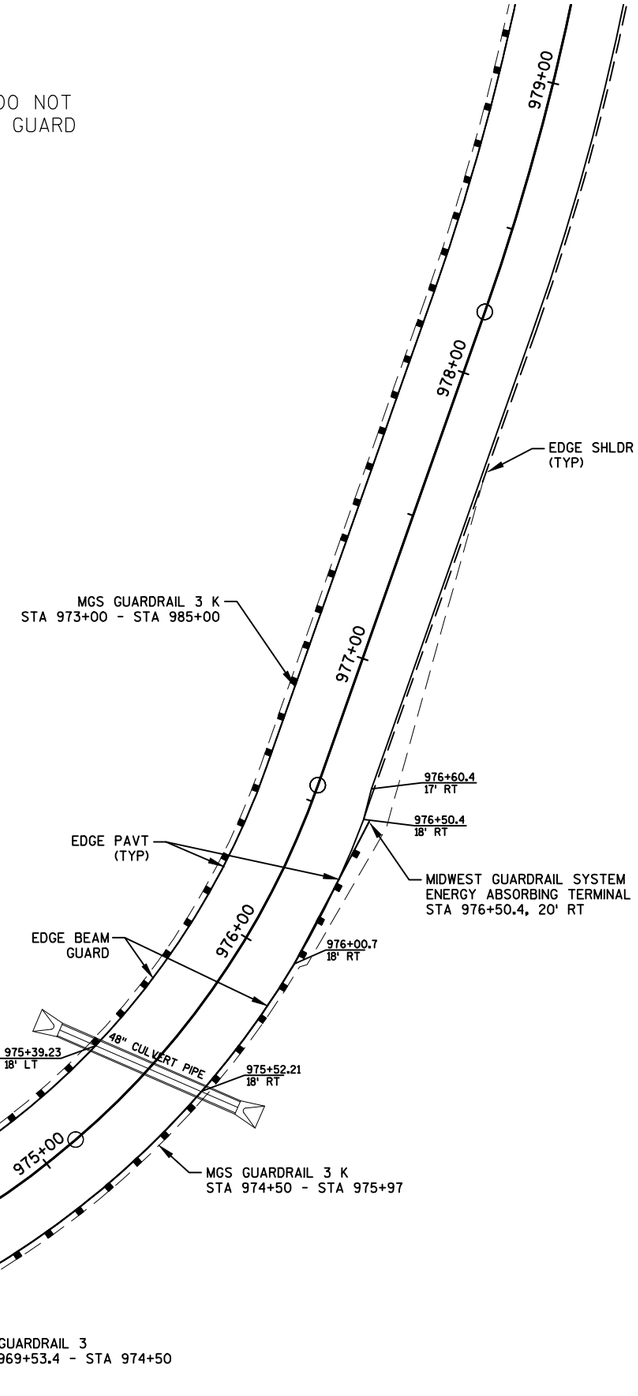


PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CONSTRUCTION DETAIL - GUARDRAIL	SHEET 14	E



NOTE:

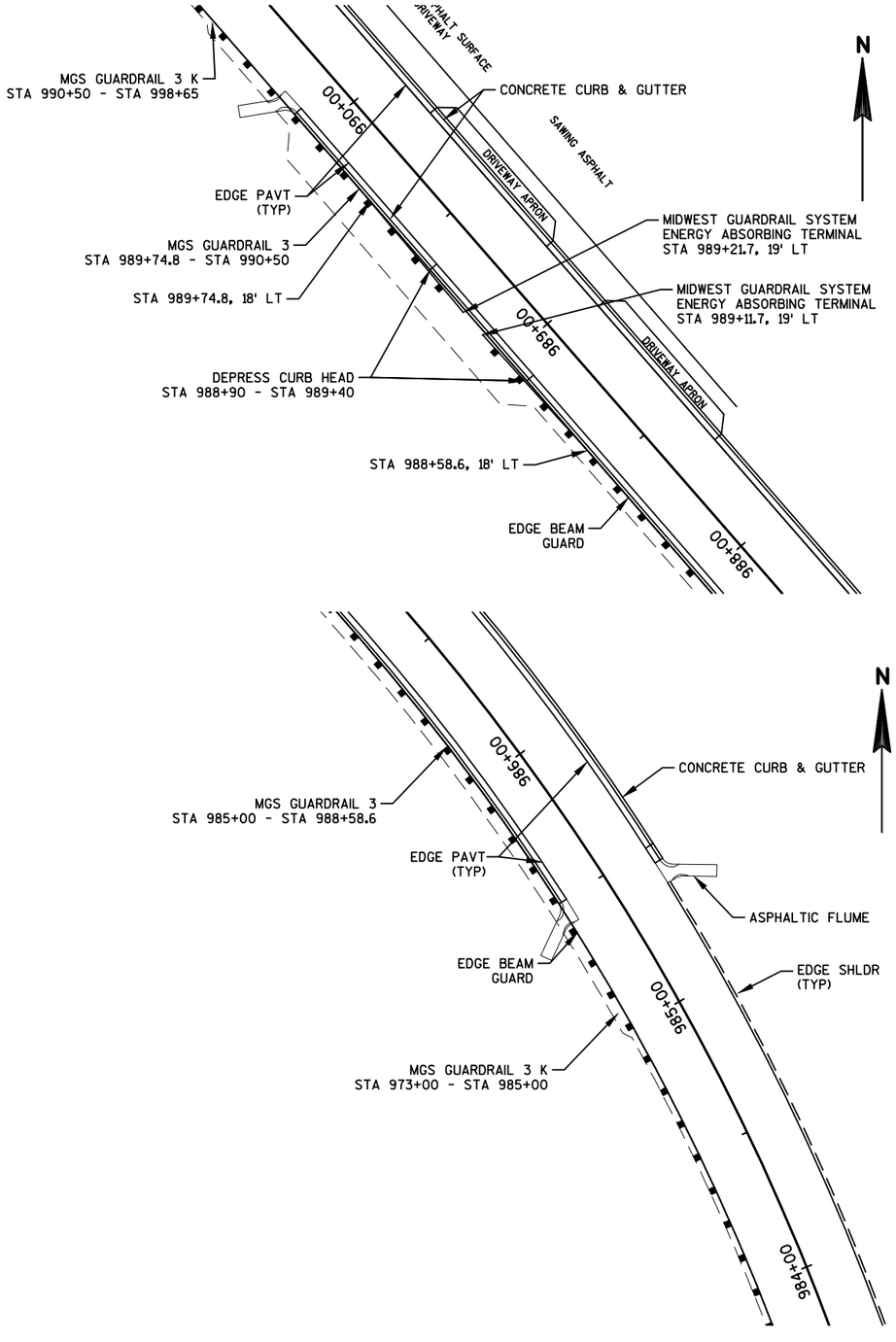
CENTERLINE STATIONS DO NOT REFLECT ACTUAL BEAM GUARD LENGTHS ON CURVES.

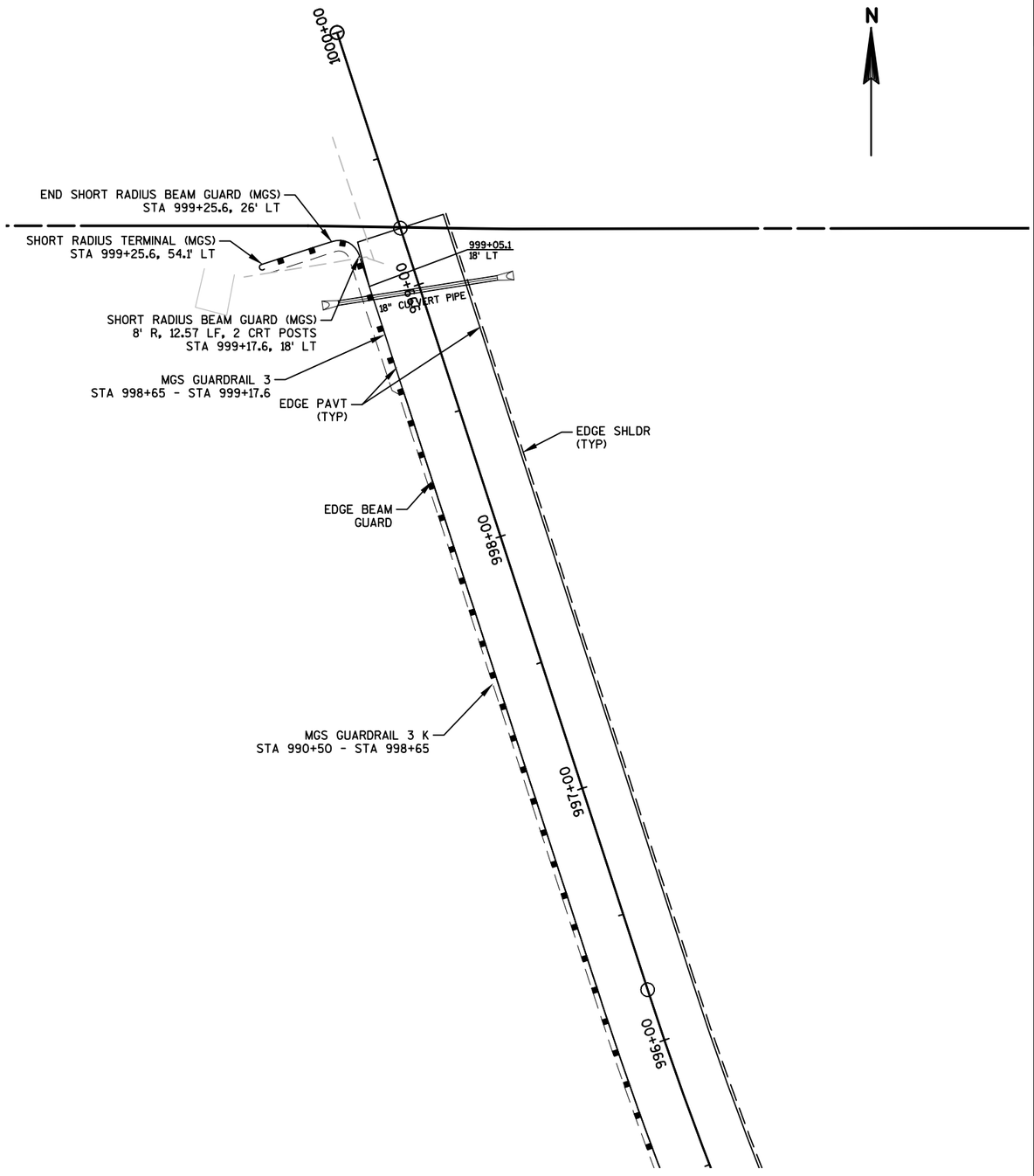


2

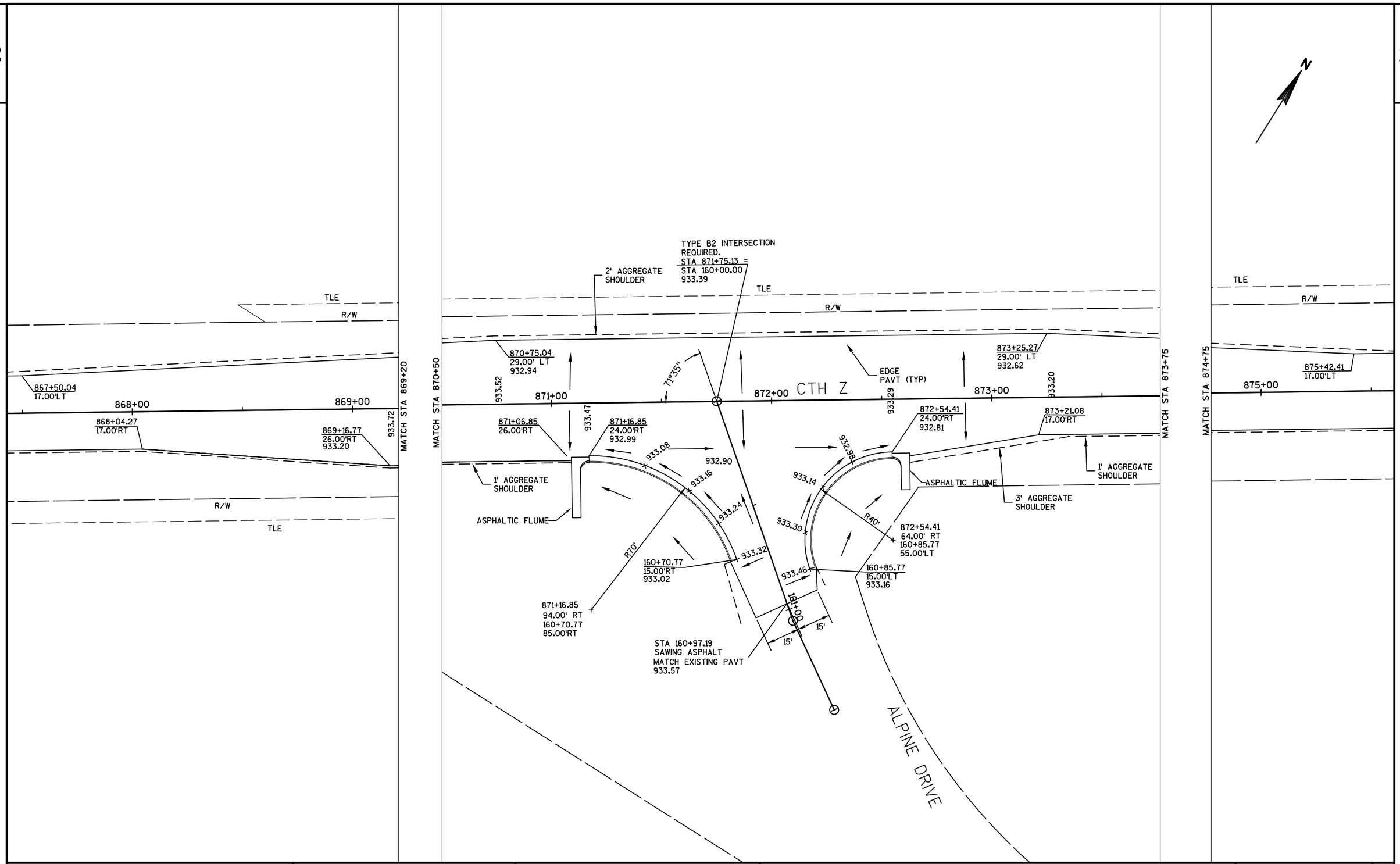
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CONSTRUCTION DETAIL - GUARDRAIL	SHEET 15	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\SHEETSPLAN\021101_ID.DWG
LAYOUT NAME - ****
PLOT DATE : 10/16/2017 9:12 AM PLOT BY : ANDREW LEE PLOT NAME : **********
WISDOT/CADDS SHEET 42





PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CONSTRUCTION DETAIL - GUARDRAIL	SHEET 16	E



PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	INTERSECTION DETAIL - ALPINE DRIVE	SHEET 17	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\SHEETSPLAN\021101_ID.DWG
LAYOUT NAME - ****
PLOT DATE : 10/11/2017 9:31 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

TYPE C INTERSECTION REQUIRED.
STA 939+41.09 =
STA 170+00.00
933.93

TLE

R/W

1' AGGREGATE SHOULDER

EDGE PAVT (TYP)

938+00

939+00

940+00

941+

90°0'

938+55.20
17.00'RT

933.12

15:1

938+70.15
18.00'RT
934.20

935.01

933.89

R/W

3' AGGREGATE SHOULDER

R60'

938+70.15
78.00' RT
170+85.78
74.35'RT

170+77.11
14.64'RT
933.58

934.87

933.58

171+00

STA 171+33.45 SAWING ASPHALT
MATCH EXISTING PAVT
933.45

AKRON DRIVE

934.23

170+56.93
15.00'LT
933.93

933.91

R40'

939+93.84
58.00' RT
170+56.93
55.00'LT

932.80

10:1

940+03.84
17.00'RT

939+93.84
18.00' RT
933.88

CTH Z

R/W

3' AGGREGATE SHOULDER

N

TYPE C INTERSECTION REQUIRED.
STA 961+50.85 =
STA 180+00.00
934.47

R/W

1' AGGREGATE SHOULDER

EDGE PAVT (TYP)

960+00

961+00

962+00

963+00

84°24'

934.51

15:1

960+69.11
17.00'RT

960+84.11
18.00' RT
934.98

1' AGGREGATE SHOULDER

3' AGGREGATE SHOULDER

R60'

960+84.11
78.00' RT
180+70.57
75.00'RT

934.94

935.03

934.96

934.44

10:1

962+21.08
17.00'RT

962+11.08
18.00' RT
934.91

1' AGGREGATE SHOULDER

R/W

R40'

962+11.08
58.00' RT
180+63.31
55.00'LT

935.20

935.32

180+70.57
15.00' RT
935.08

180+63.31
15.00' LT
935.02

935.38

181+00

STA 181+10.57 SAWING ASPHALT
MATCH EXISTING PAVT
935.71

3' AGGREGATE SHOULDER

AKRON AVENUE

CTH Z

STA 961+50.85 RT
TYPE C INTERSECTION
REQUIRED.

PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	INTERSECTION DETAIL - AKRON DRIVE AND AKRON AVENUE	SHEET 18	E

2

PETENWELL FLOWAGE

HIGH POINT

SILT FENCE
STA 866+00

HE
R/W

BEGIN PROJECT
STA 866+00

TLE FOR
SLOPES

SILT FENCE
STA 870+00

HE
R/W

SLOPE
INTERCEPT

TLE FOR
SLOPES

R/W

CTH Z

MATCH LINE STA 880+00

865+00

870+00

875+00

880+00

SLOPE
INTERCEPT

ALPINE DRIVE

LEGEND

- DRAINAGE FLOW DIRECTION
- DRIVEWAY CULVERTS WITH CULVERT PIPE CHECKS (UPSTREAM SIDE)
- SILT FENCE
- SNAKE/TURTLE TURN-AROUND
- TURBIDITY BARRIER
- EROSION MAT
- RIPRAP
- TRACKING PAD
- TEMPORARY DITCH CHECK
- WATER (LAKE, RIVER, ETC.)
- WETLANDS
- INLET PROTECTION

MATCH LINE STA 880+00

CULVERT PIPE CHECKS
STA 883+96

LOW POINT

SLOPE
INTERCEPT

SILT FENCE
STA 893+00

MATCH LINE STA 895+00

CTH Z

880+00

885+00

890+00

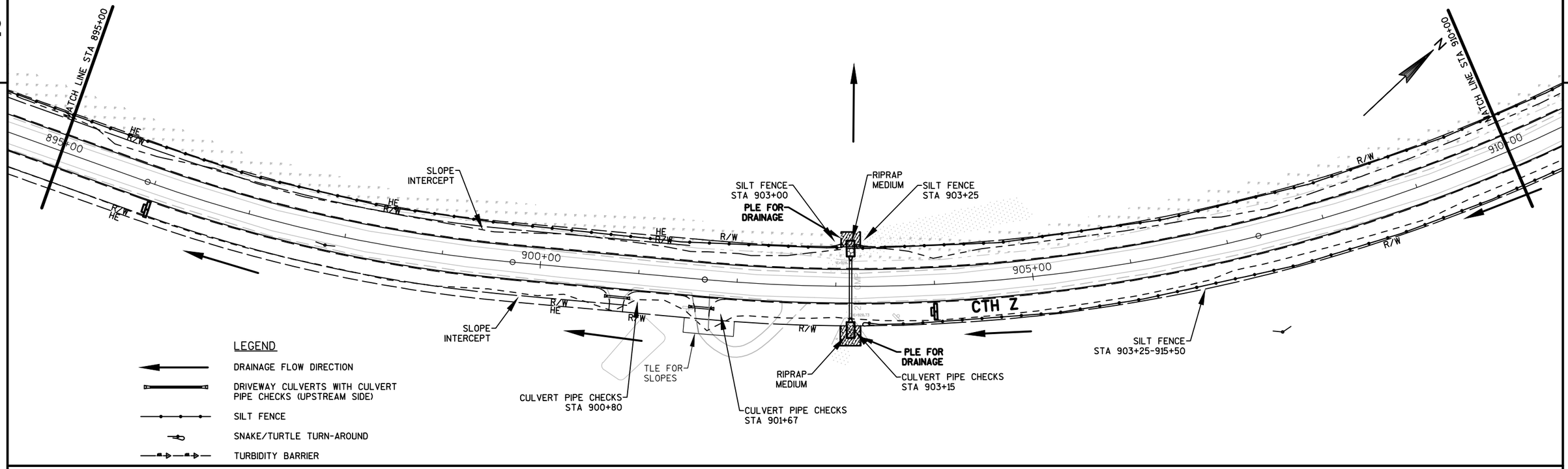
895+00

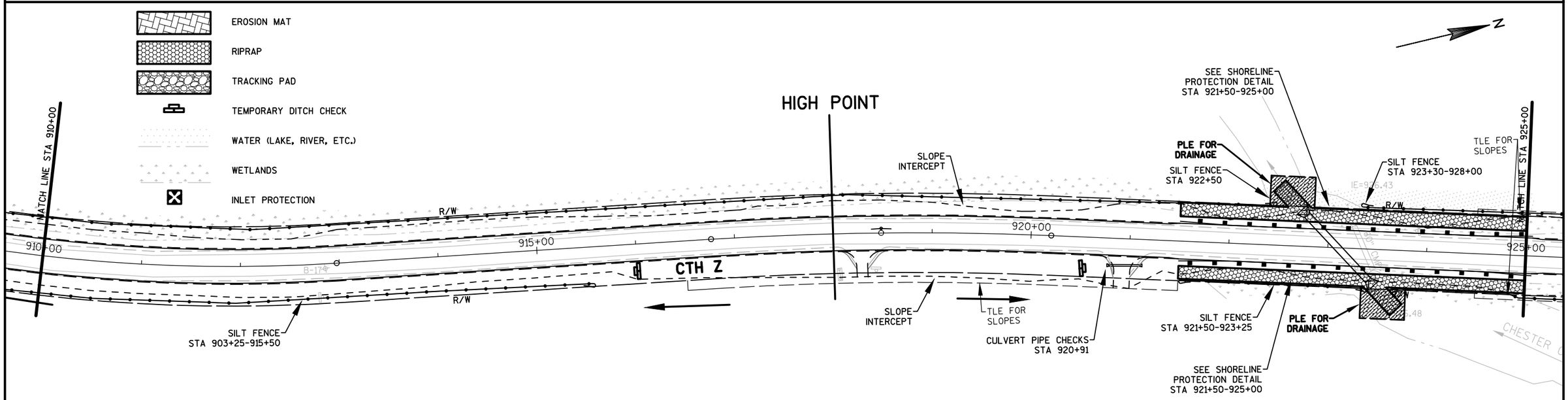
TLE FOR
SLOPES

SLOPE
INTERCEPT

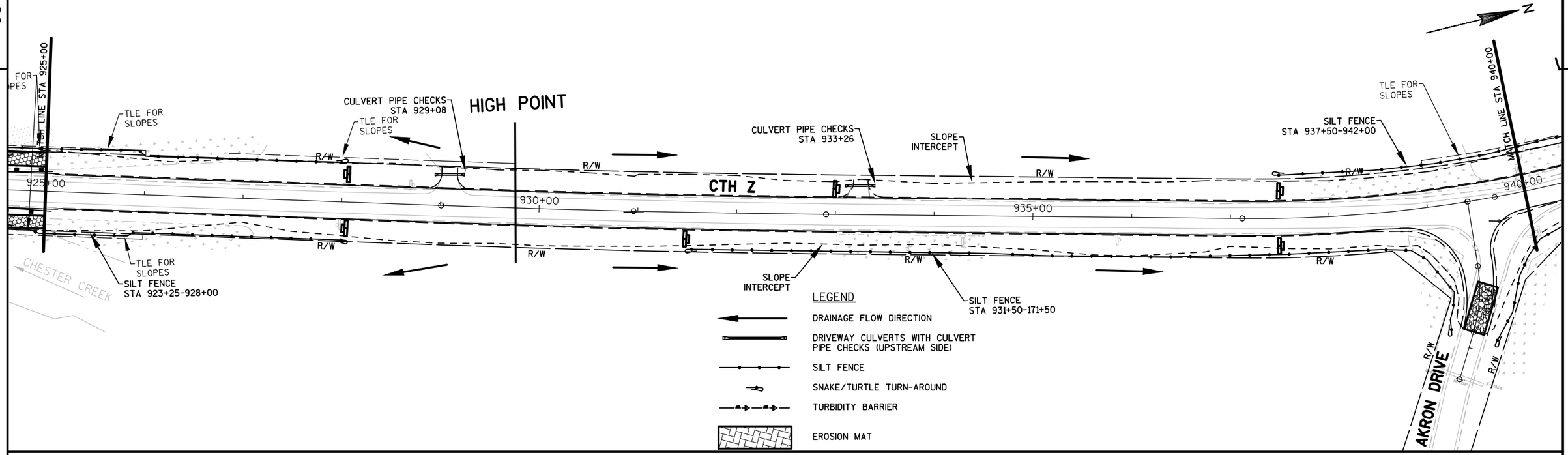
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	EROSION CONTROL	SHEET 19	E

2





PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	EROSION CONTROL	SHEET 20	E

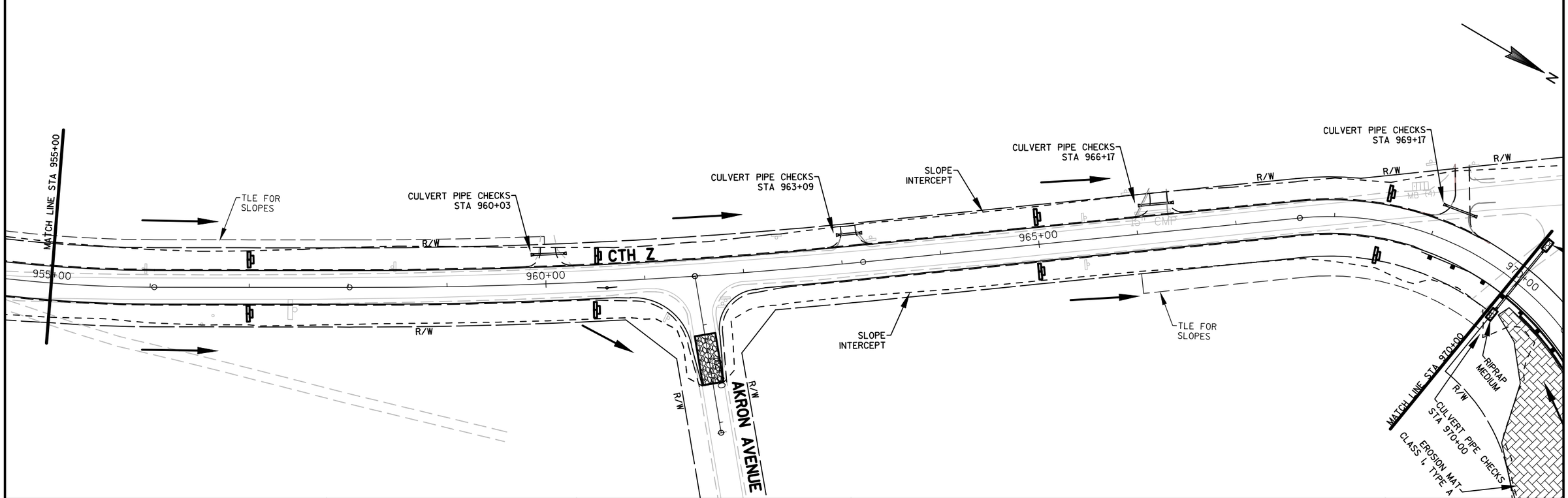

FOR
PES
MATCH LINE STA 925+00
TLE FOR
SLOPES
CULVERT PIPE CHECKS
STA 929+08
TLE FOR
SLOPES
HIGH POINT
CULVERT PIPE CHECKS
STA 933+26
SLOPE
INTERCEPT
SILT FENCE
STA 937+50-942+00
TLE FOR
SLOPES
MATCH LINE STA 940+00
925+00
930+00
CTH Z
935+00
940+00
R/W
CHESTER CREEK
TLE FOR
SLOPES
SILT FENCE
STA 923+25-928+00
SLOPE
INTERCEPT
SILT FENCE
STA 931+50-171+50
AKRON DRIVE
N
LEGEND
DRAINAGE FLOW DIRECTION
DRIVEWAY CULVERTS WITH CULVERT PIPE CHECKS (UPSTREAM SIDE)
SILT FENCE
SNAKE/TURTLE TURN-AROUND
TURBIDITY BARRIER
EROSION MAT
RIPRAP
TRACKING PAD
TEMPORARY DITCH CHECK
WATER (LAKE, RIVER, ETC.)
WETLANDS
INLET PROTECTION
MATCH LINE STA 940+00
LOW POINT
RIPRAP
MEDIUM
PLE FOR
DRAINAGE
CULVERT PIPE CHECKS
STA 943+36
TLE FOR
SLOPES
HIGH POINT
MATCH LINE STA 955+00
940+00
945+00
CTH Z
950+00
955+00
RIPRAP
MEDIUM
PLE FOR
DRAINAGE
CULVERT PIPE CHECKS
STA 941+14
CULVERT PIPE CHECKS
STA 943+36
TLE FOR
SLOPES
SLOPE
INTERCEPT
SILT FENCE
STA 171+50-942+00
B-18

2

2

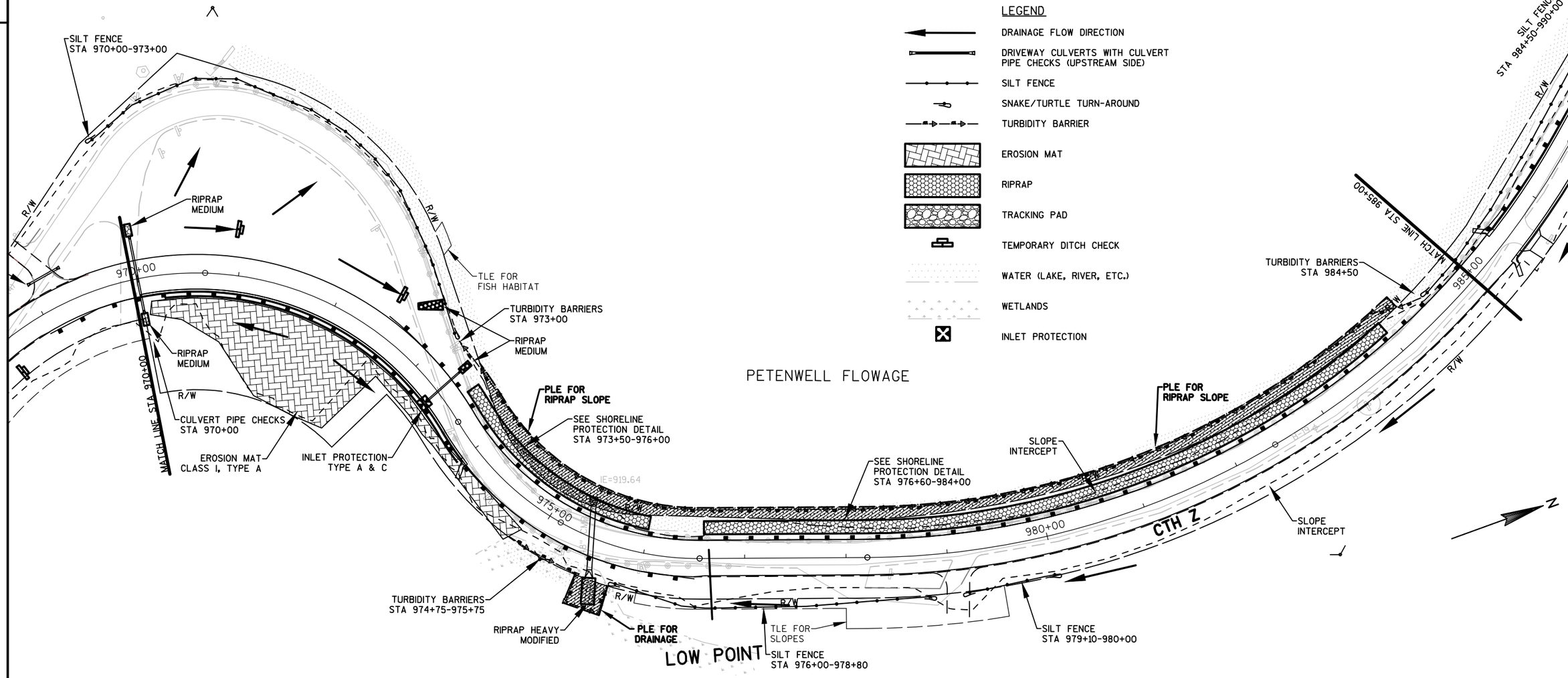
LEGEND

- DRAINAGE FLOW DIRECTION
- DRIVEWAY CULVERTS WITH CULVERT PIPE CHECKS (UPSTREAM SIDE)
- SILT FENCE
- SNAKE/TURTLE TURN-AROUND
- TURBIDITY BARRIER
- EROSION MAT
- RIPRAP
- TRACKING PAD
- TEMPORARY DITCH CHECK
- WATER (LAKE, RIVER, ETC.)
- WETLANDS
- INLET PROTECTION



PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	EROSION CONTROL	SHEET 22	E

2



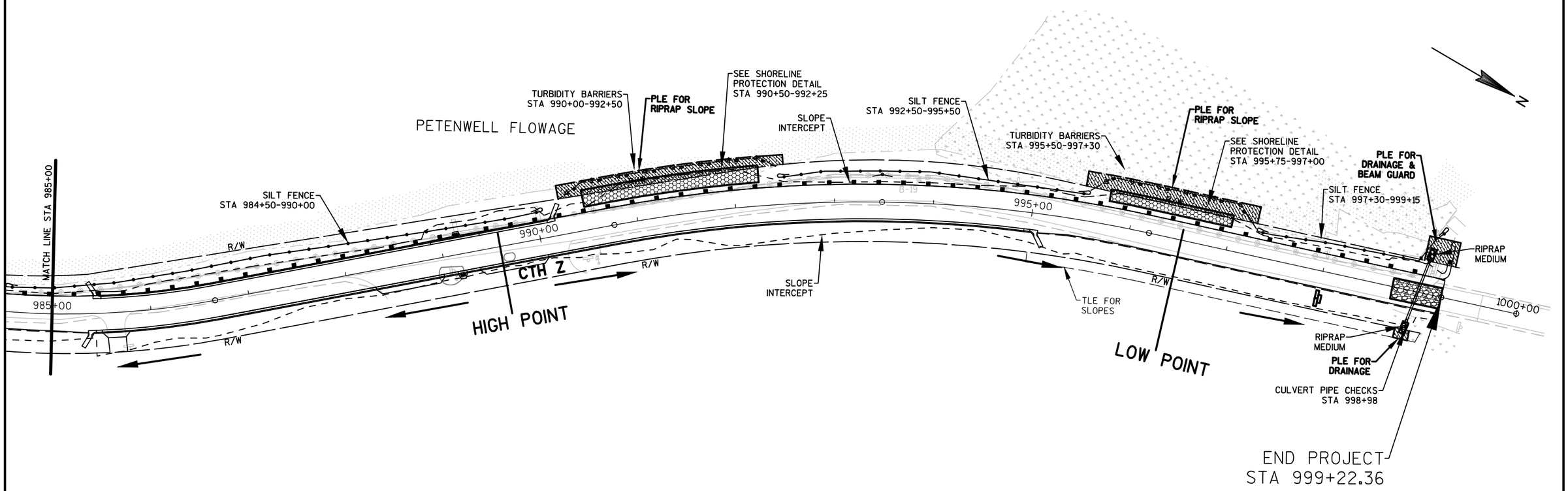
PETENWELL FLOWAGE

PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	EROSION CONTROL	SHEET 23	E

2

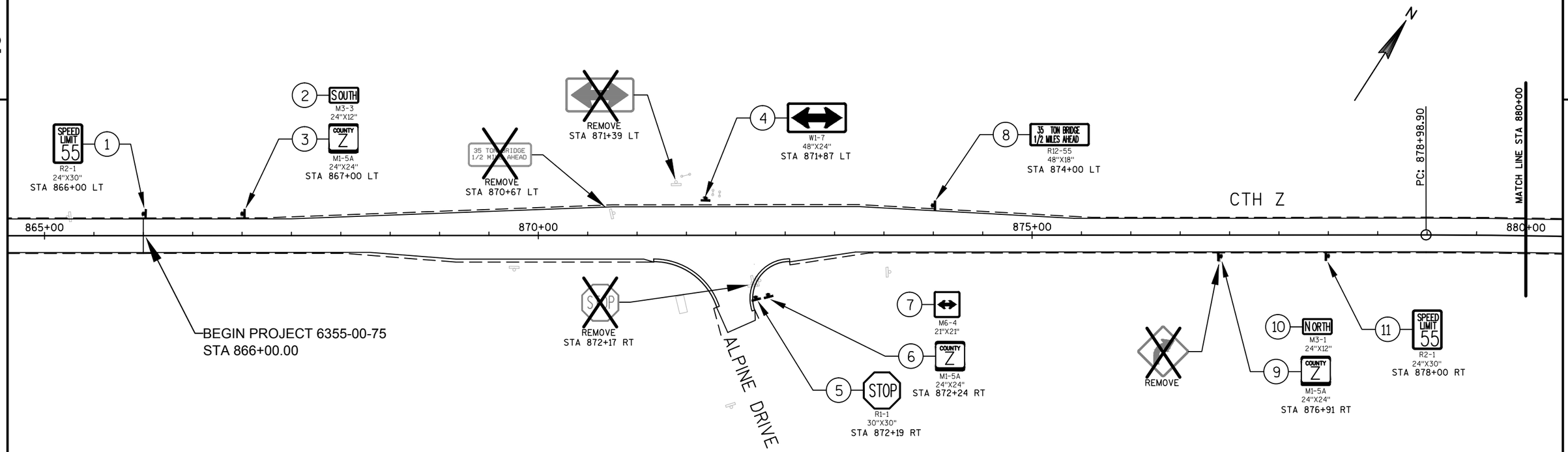
LEGEND

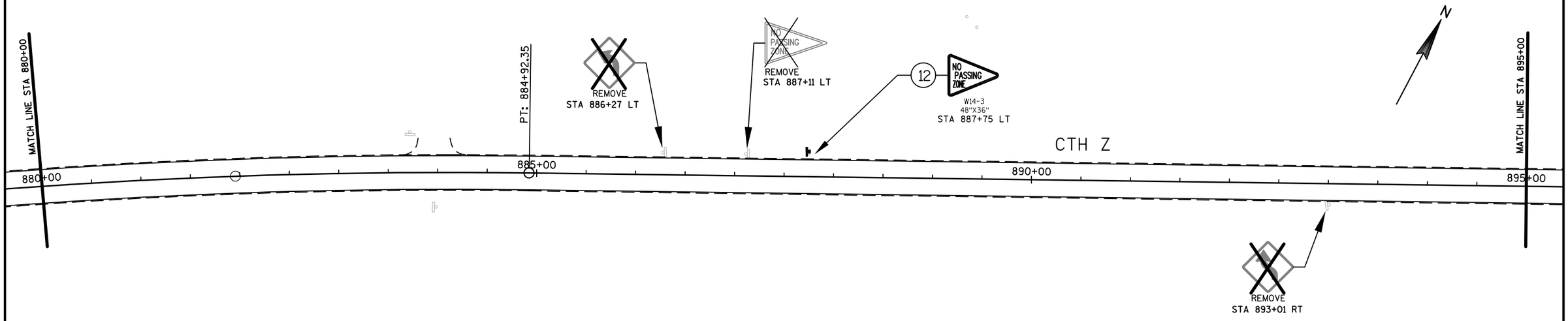
- DRAINAGE FLOW DIRECTION
- DRIVEWAY CULVERTS WITH CULVERT PIPE CHECKS (UPSTREAM SIDE)
- SILT FENCE
- SNAKE/TURTLE TURN-AROUND
- TURBIDITY BARRIER
- EROSION MAT
- RIPRAP
- TRACKING PAD
- TEMPORARY DITCH CHECK
- WATER (LAKE, RIVER, ETC.)
- WETLANDS
- INLET PROTECTION



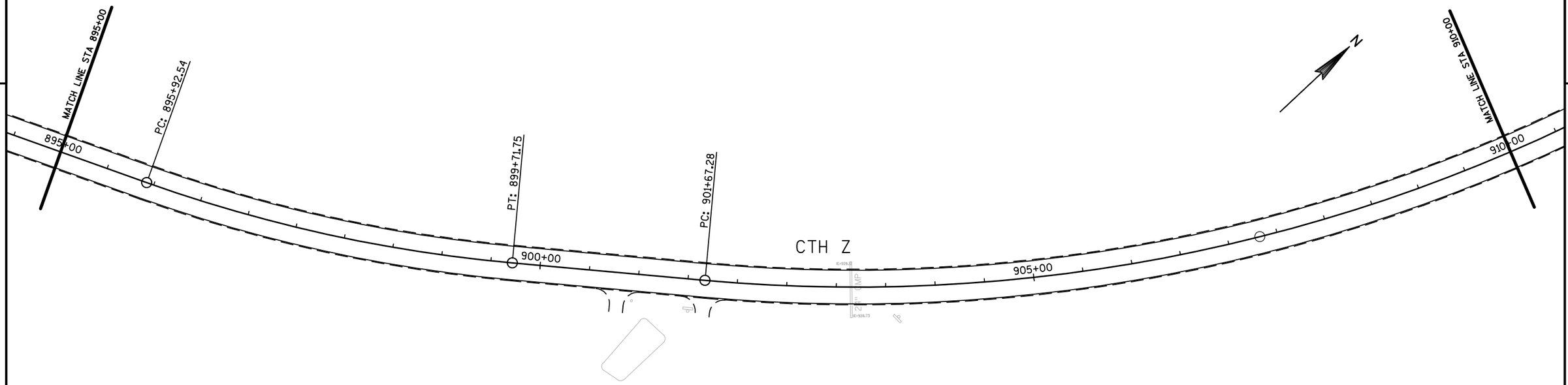
PROJECT NO:6355-00-75	HWY: CTH Z	COUNTY: ADAMS	EROSION CONTROL	SHEET 24	E

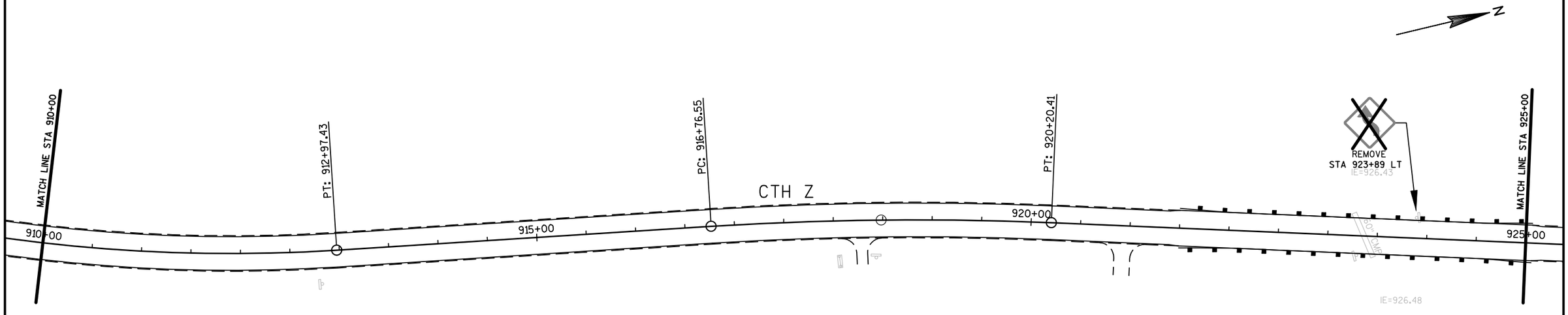
2



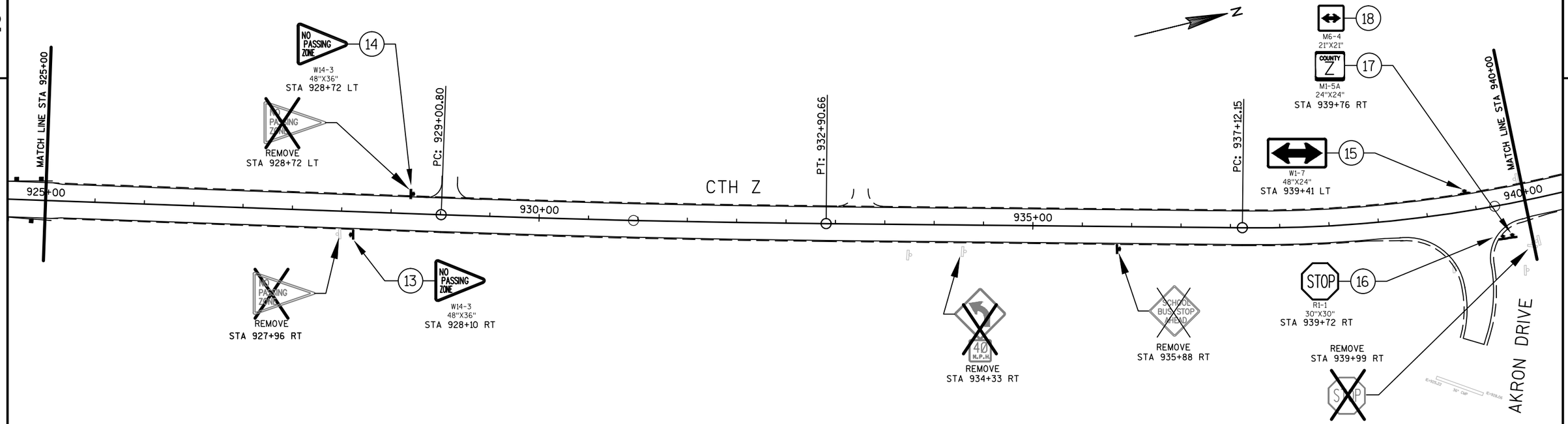


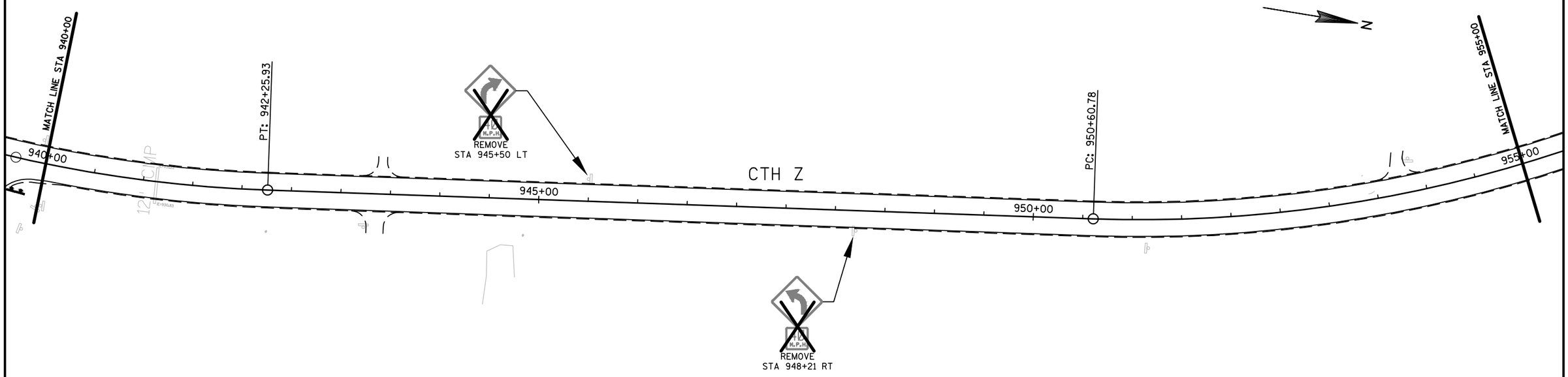
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	PERMANENT SIGNING	SHEET 25	E





PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	PERMANENT SIGNING	SHEET 26	E





PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	PERMANENT SIGNING	SHEET 27	E

2

MATCH LINE STA 955+00

PT: 956+04.25

PC: 958+01.64

955+00

960+00

965+00

970+00

REMOVE
STA 958+45 LT

19 — W3-5
36"X36"
STA 957+00 RT

SPEED LIMIT 55 — 21 — R2-1
24"X30"
STA 960+50 LT

SPEED LIMIT 45 — 20 — R2-1
24"X30"
STA 960+50 RT

22 — W1-7
48"X24"
STA 961+51 LT

AKRON AVENUE

REMOVE
STA 961+77 RT

23 — STOP — R1-1
30"X30"
STA 961+87 RT

PT: 963+21.40

CTH IZ\

25 — M6-4
21"X21"

24 — COUNTY Z — M1-5A
24"X24"
STA 961+91 RT

28 — W1-5R
30"X30"

29 — 25 M.P.H. — W13-1
18"X18"
STA 964+00 LT

26 — W1-5R
30"X30"

27 — 25 M.P.H. — W13-1
18"X18"
STA 964+00 RT

15" CMP

REMOVE
STA 965+47 RT
STA 965+49 LT

PC: 967+64.82

31 — 32 — (2) W1-8
18"X24"
STA 968+87 LT

REMOVE

30 — NO PARKING — R7-1-D
18"X24"
STA 968+00 RT

MB (1)

MATCH LINE STA 970+00

MATCH LINE STA 970+50, 100' LT

33 — 34 — (2) W1-8
18"X24"
STA 970+06 LT

REMOVE
STA 972+02 LT

REMOVE
STA 972+41 LT

970+00

MATCH LINE STA 970+00

REMOVE
STA 973+12 LT

36 — 35 — (2) W1-8
18"X24"
STA 971+28 LT

38 — 37 — (2) W1-8
18"X24"
STA 972+50 LT

PRC: 973+69.24

39 — 40 — (2) W1-8
18"X24"
STA 973+70 LT

REMOVE
STA 973+74 RT

41 — NO PARKING — R7-1-D
18"X24"

43 — 42 — (2) W1-8
18"X24"
STA 974+41 RT

REMOVE

REMOVE
STA 975+24 RT

975+00

IE=919.51

45 — 44 — (2) W1-8
18"X24"
STA 975+12 RT

PT: 976+55.65

CTH Z

PC: 978+21.16

980+00

46 — 47 — (2) W1-8
18"X24"
STA 976+00 RT

REMOVE

48 — NO PARKING — R7-1-D
18"X24"
STA 978+45 RT

REMOVE

REMOVE
STA 970+46 LT

REMOVE
STA 970+20 LT

REMOVE

REMOVE
STA 970+49 LT

REMOVE
STA 970+71 LT

REMOVE
STA 971+16 LT

REMOVE
STA 971+78 LT

MATCH LINE STA 970+50, 100' LT

MATCH LINE STA 985+00

985+00

REMOVE
STA 983+41 RT

PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	PERMANENT SIGNING	SHEET 28	E

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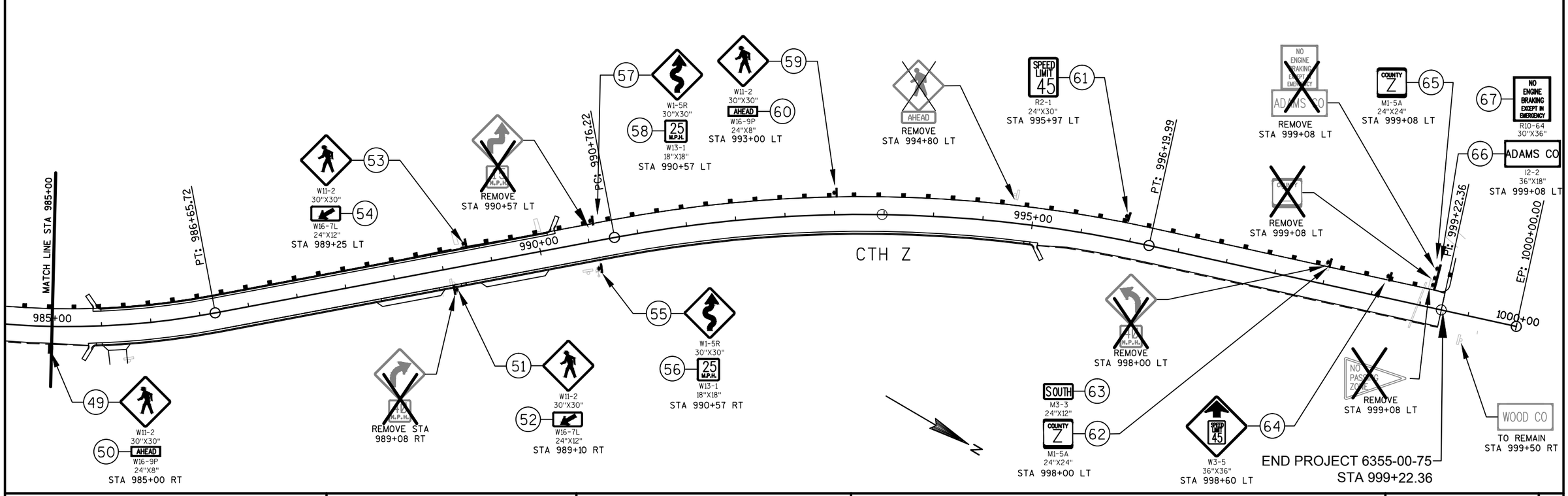
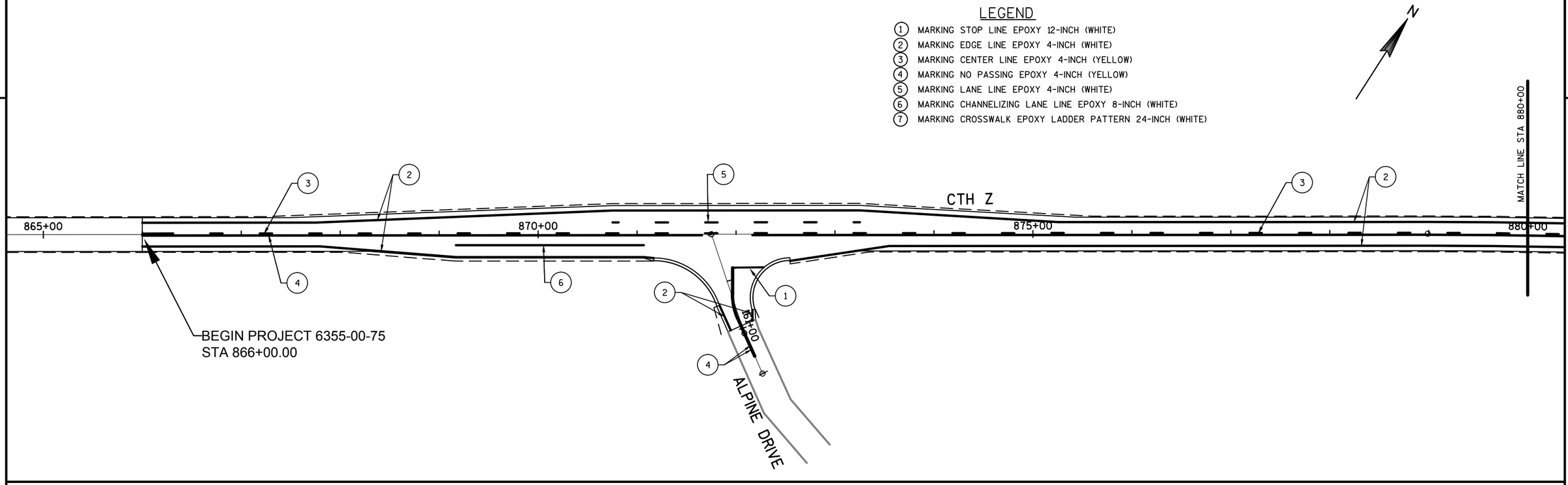


PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	PERMANENT SIGNING	SHEET 29	E

LEGEND

1. MARKING STOP LINE EPOXY 12-INCH (WHITE)
2. MARKING EDGE LINE EPOXY 4-INCH (WHITE)
3. MARKING CENTER LINE EPOXY 4-INCH (YELLOW)
4. MARKING NO PASSING EPOXY 4-INCH (YELLOW)
5. MARKING LANE LINE EPOXY 4-INCH (WHITE)
6. MARKING CHANNELIZING LANE LINE EPOXY 8-INCH (WHITE)
7. MARKING CROSSWALK EPOXY LADDER PATTERN 24-INCH (WHITE)

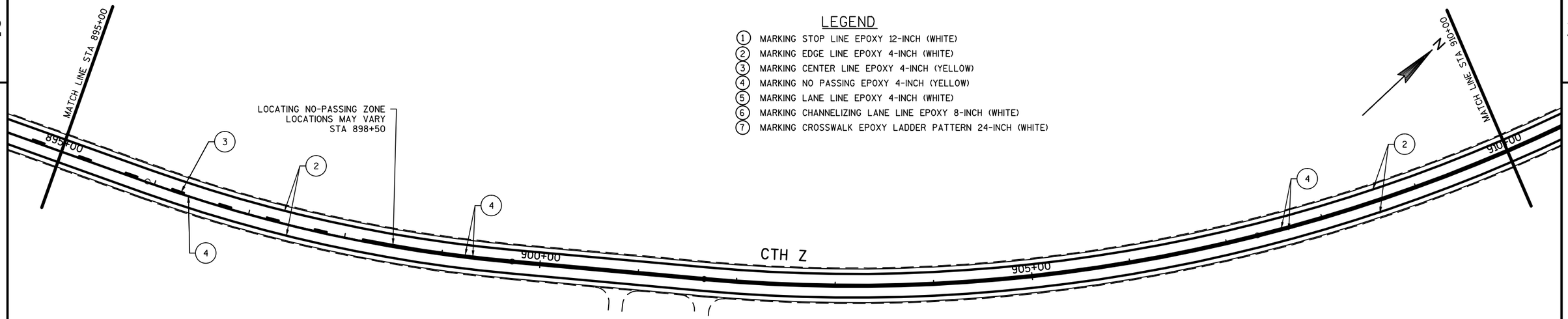


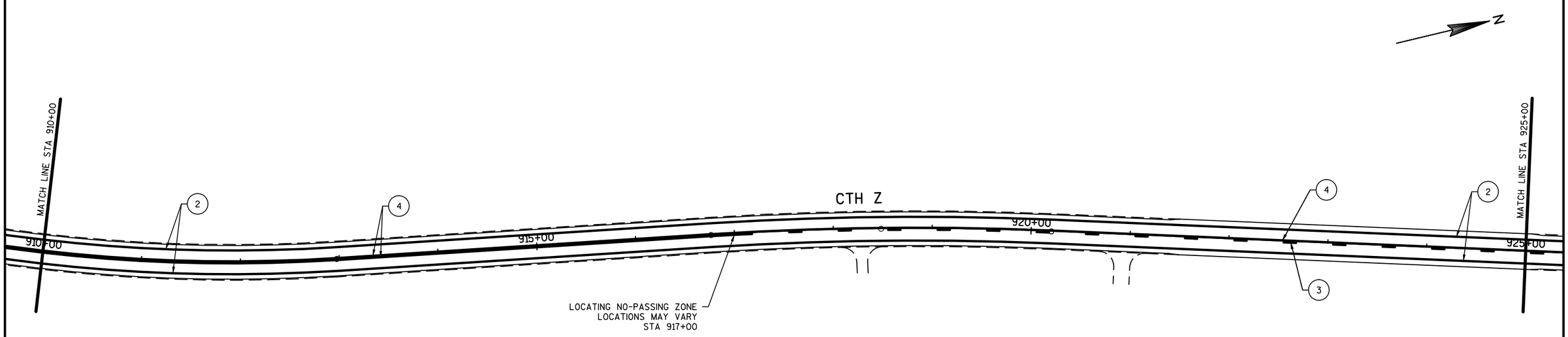
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	PAVEMENT MARKING	SHEET 30	E

2

LEGEND

1. MARKING STOP LINE EPOXY 12-INCH (WHITE)
2. MARKING EDGE LINE EPOXY 4-INCH (WHITE)
3. MARKING CENTER LINE EPOXY 4-INCH (YELLOW)
4. MARKING NO PASSING EPOXY 4-INCH (YELLOW)
5. MARKING LANE LINE EPOXY 4-INCH (WHITE)
6. MARKING CHANNELIZING LANE LINE EPOXY 8-INCH (WHITE)
7. MARKING CROSSWALK EPOXY LADDER PATTERN 24-INCH (WHITE)



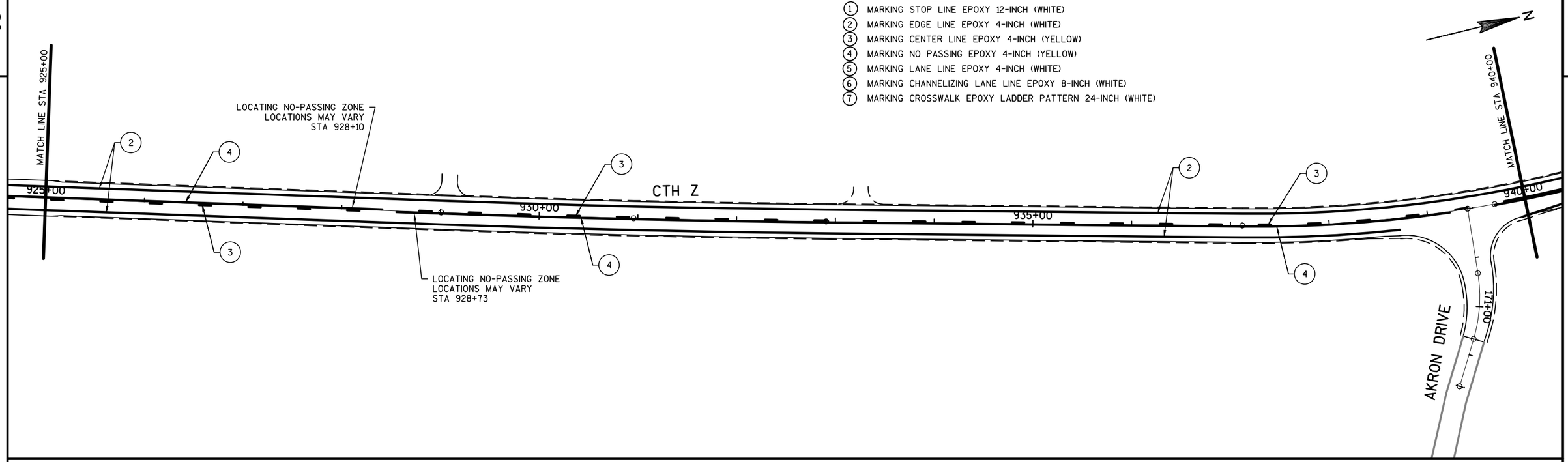


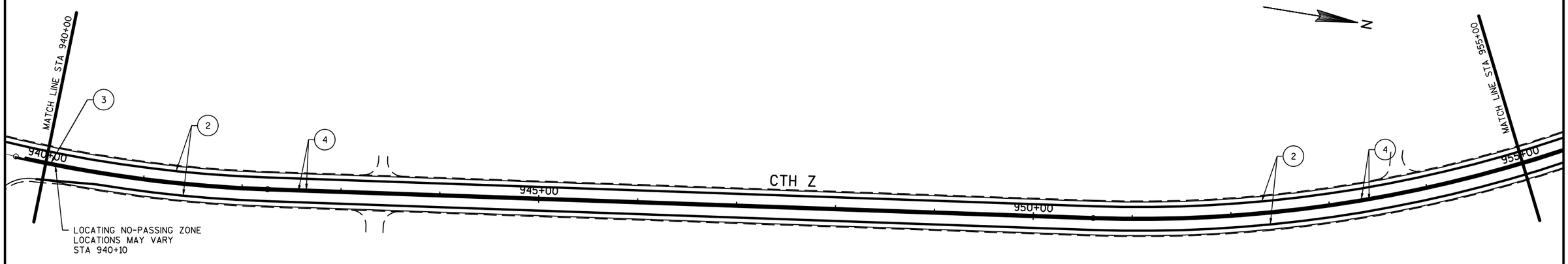
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	PAVEMENT MARKING	SHEET 31	E

2

LEGEND

1. MARKING STOP LINE EPOXY 12-INCH (WHITE)
2. MARKING EDGE LINE EPOXY 4-INCH (WHITE)
3. MARKING CENTER LINE EPOXY 4-INCH (YELLOW)
4. MARKING NO PASSING EPOXY 4-INCH (YELLOW)
5. MARKING LANE LINE EPOXY 4-INCH (WHITE)
6. MARKING CHANNELIZING LANE LINE EPOXY 8-INCH (WHITE)
7. MARKING CROSSWALK EPOXY LADDER PATTERN 24-INCH (WHITE)

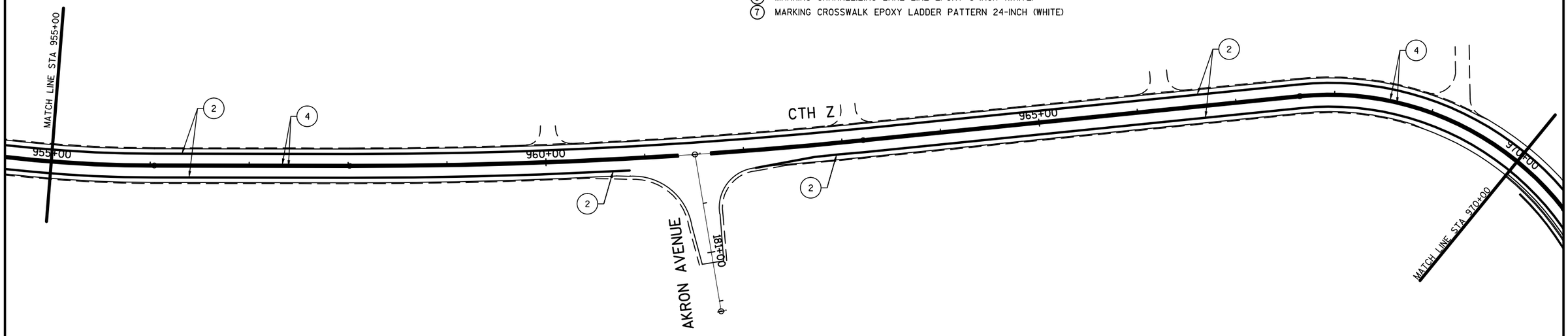


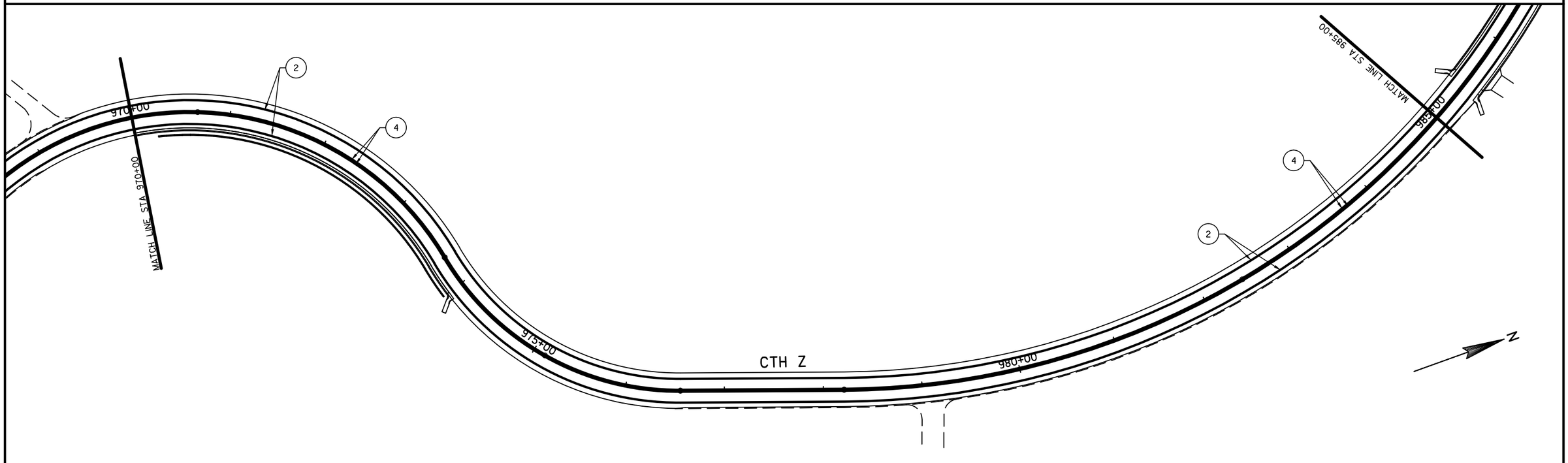


PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	PAVEMENT MARKING	SHEET 32	E

LEGEND

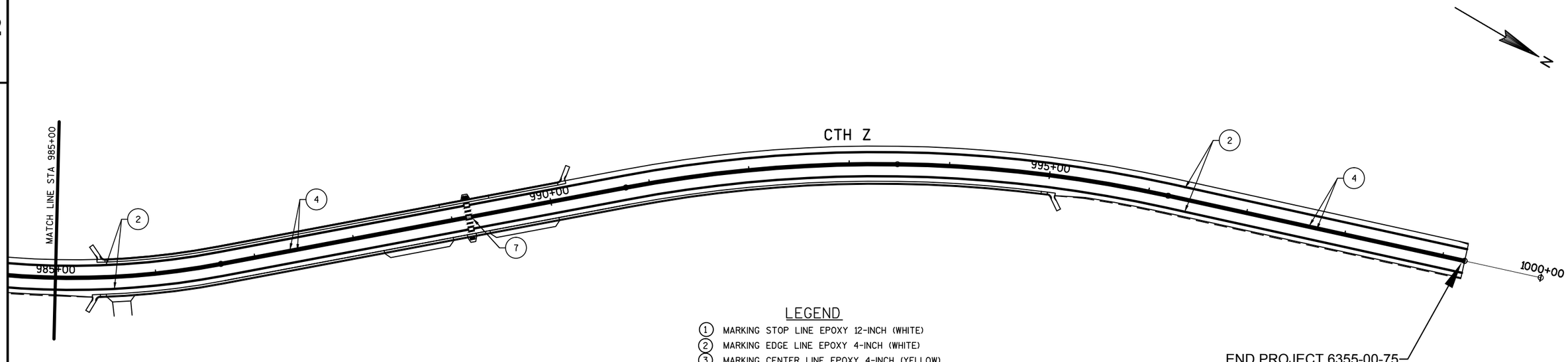
1. MARKING STOP LINE EPOXY 12-INCH (WHITE)
2. MARKING EDGE LINE EPOXY 4-INCH (WHITE)
3. MARKING CENTER LINE EPOXY 4-INCH (YELLOW)
4. MARKING NO PASSING EPOXY 4-INCH (YELLOW)
5. MARKING LANE LINE EPOXY 4-INCH (WHITE)
6. MARKING CHANNELIZING LANE LINE EPOXY 8-INCH (WHITE)
7. MARKING CROSSWALK EPOXY LADDER PATTERN 24-INCH (WHITE)





PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	PAVEMENT MARKING	SHEET 33	E

2



LEGEND

1. MARKING STOP LINE EPOXY 12-INCH (WHITE)
2. MARKING EDGE LINE EPOXY 4-INCH (WHITE)
3. MARKING CENTER LINE EPOXY 4-INCH (YELLOW)
4. MARKING NO PASSING EPOXY 4-INCH (YELLOW)
5. MARKING LANE LINE EPOXY 4-INCH (WHITE)
6. MARKING CHANNELIZING LANE LINE EPOXY 8-INCH (WHITE)
7. MARKING CROSSWALK EPOXY LADDER PATTERN 24-INCH (WHITE)

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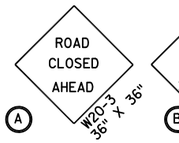
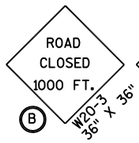
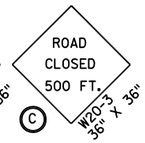
2



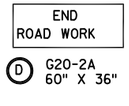
(A)



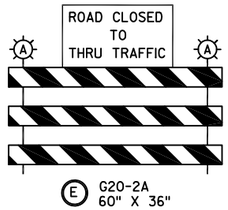
(B)



(C)



(D) G20-2A
60" X 36"

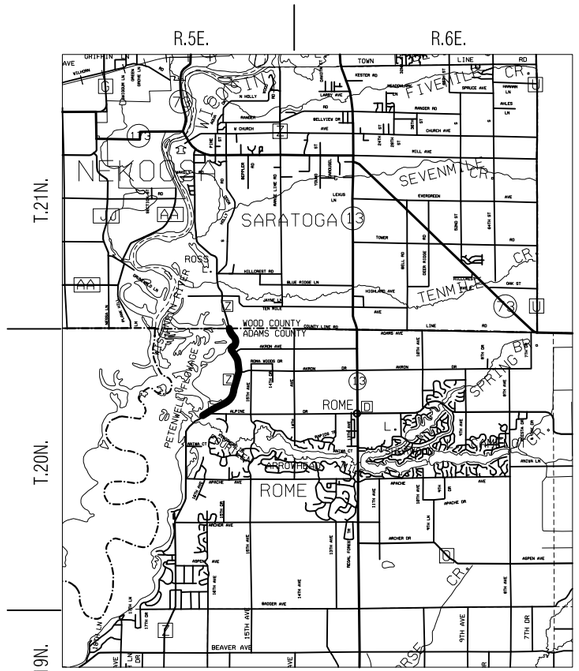


(E) G20-2A
60" X 36"

LEGEND

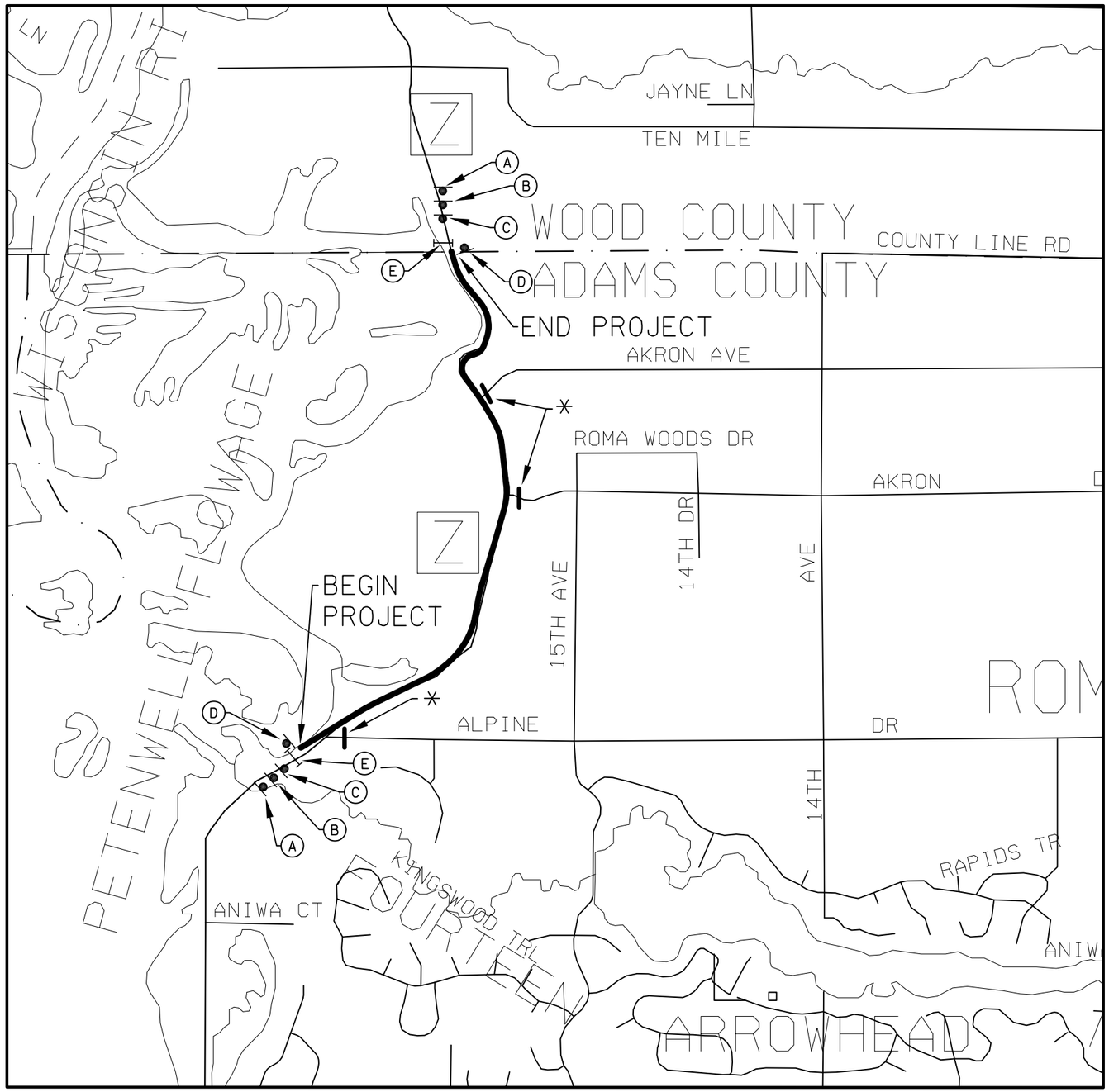
- SIDEROAD CLOSURE DETAIL
- SIGN ON WOOD POST
- SIGN ON TYPE III BARRICADE
- (A) TYPE 'A' LOW INTENSITY FLASHING WARNING LIGHT (FOR NIGHT USE)

* NOTES:
SEE SDD BARRICADES AND SIGNS FOR SIDEROAD CLOSURES, DETAIL 4.



PROJECT LOCATION MAP

N



PROJECT NO:6355-00-75	HWY: CTH Z	COUNTY: ADAMS	TRAFFIC CONTROL	SHEET 35	E

(A) DETOUR AHEAD — W20-2-A

(B) END DETOUR — M4-8A — 24"X18"

(C) DETOUR — M4-8 — 24"X12"

(D) NORTH — M3-1 — 24"X12"

(E) SOUTH — M3-3 — 24"X12"

(F) COUNTY Z — M1-5A — 24"X24"

(G) MO6-1 — 21"X21"

(H) MO6-1 — 21"X21"

(I) MO6-1 — 21"X21"

(J) MO5-1L — 21"X21"

(K) MO5-1R — 21"X21"

(L) ROAD CLOSED 4 MILES AHEAD LOCAL TRAFFIC ONLY — R11-3 — 60"X30"

(M) ROAD CLOSED 9.5 MILES AHEAD LOCAL TRAFFIC ONLY — R11-3 — 60"X30"

(N) ROAD CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY — R11-3 — 60"X30"

(O) REPLACE (ON EXISTING SIGN) WITH — MO6-1 — 21"X21"

(P) & (Q)

CTH Z TO CLOSE	(DAY) (MO)(DATE)
FRAME 1	FRAME 2

NOTES

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

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

CONTRACTOR TO COORDINATE W/ HIGHWAY DEPARTMENT PRIOR TO CONSTRUCTION FOR SIGNING.

LEGEND

POST(S) WITH ATTACHED SIGN

CONSTRUCTION ZONE

PCMS — PORTABLE CHANGEABLE MESSAGE SIGN

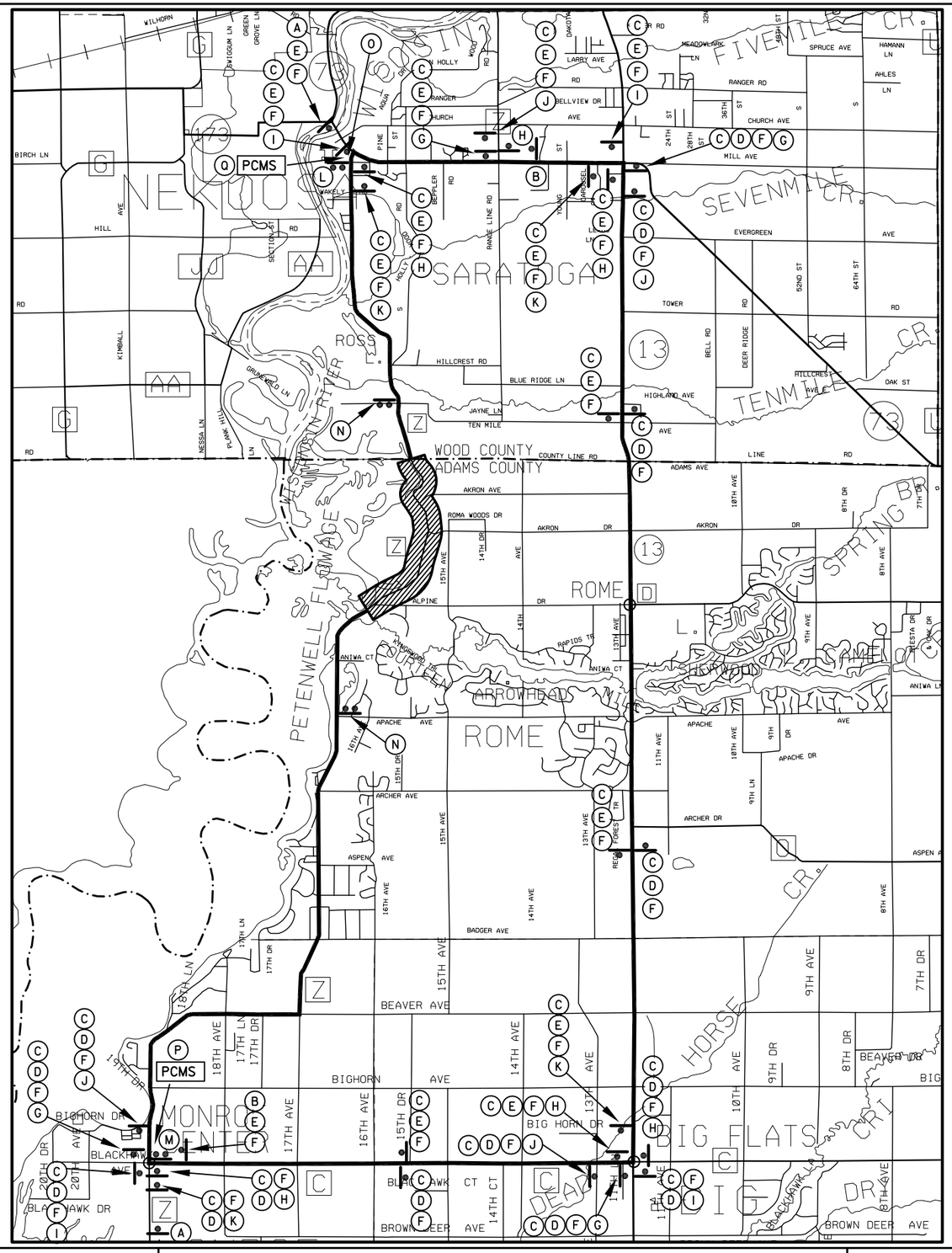
PCMS NOTES

PLACE NB PCMS ON COUNTY RIGHT OF WAY 150' NORTH OF CTH C CENTERLINE.

PLACE SB PCMS ON COUNTY RIGHT OF WAY 150' SOUTH OF STH 73 CENTERLINE.

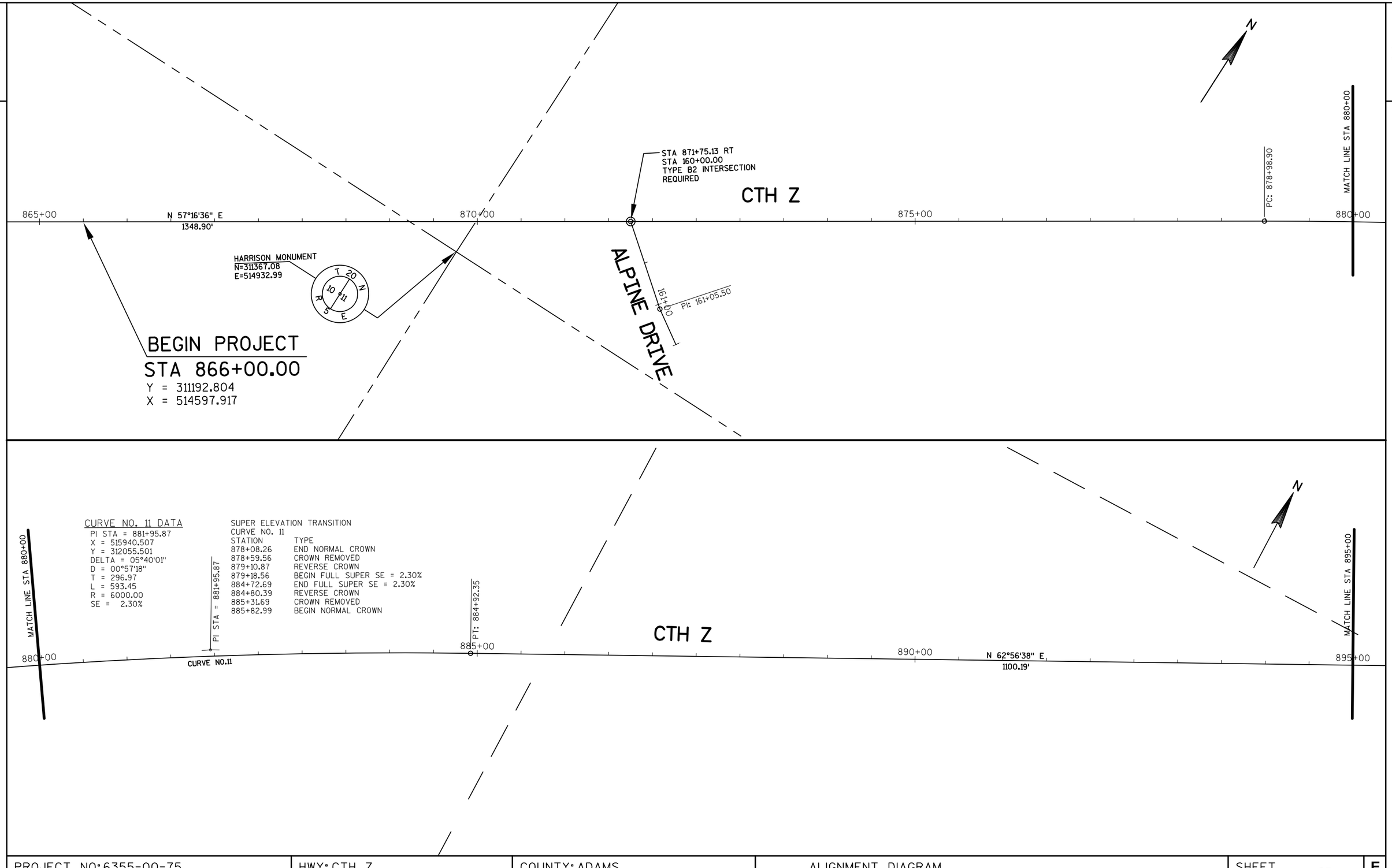
PLACE PCMS SIGNS 7 CALENDAR DAYS PRIOR TO CTHZ ROAD CLOSURE. USE MESSAGE AS FOLLOWS:

CTH Z TO CLOSE	(DAY) (MO)(DATE)

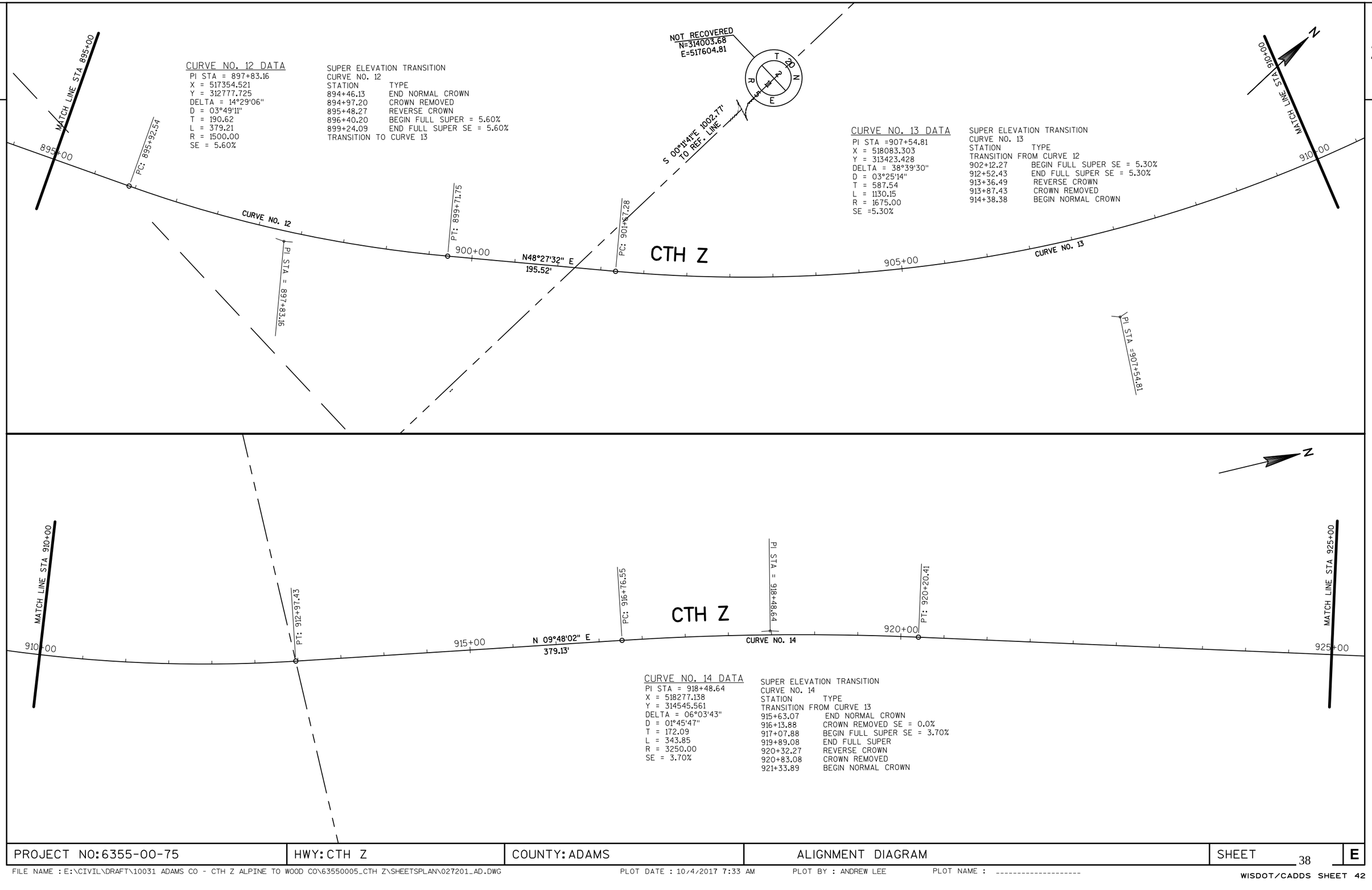


PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	DETOUR ROUTE	SHEET 36	E

2



PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	ALIGNMENT DIAGRAM	SHEET 37	E



CURVE NO. 12 DATA

PI STA = 897+83.16
X = 517354.521
Y = 312777.725
DELTA = 14°29'06"
D = 03°49'11"
T = 190.62
L = 379.21
R = 1500.00
SE = 5.60%

SUPER ELEVATION TRANSITION
CURVE NO. 12

STATION	TYPE
894+46.13	END NORMAL CROWN
894+97.20	CROWN REMOVED
895+48.27	REVERSE CROWN
896+40.20	BEGIN FULL SUPER = 5.60%
899+24.09	END FULL SUPER SE = 5.60%
TRANSITION TO CURVE 13	

CURVE NO. 13 DATA

PI STA =907+54.81
X = 518083.303
Y = 313423.428
DELTA = 38°39'30"
D = 03°25'14"
T = 587.54
L = 1130.15
R = 1675.00
SE =5.30%

SUPER ELEVATION TRANSITION
CURVE NO. 13

STATION	TYPE
TRANSITION FROM CURVE 12	
902+12.27	BEGIN FULL SUPER SE = 5.30%
912+52.43	END FULL SUPER SE = 5.30%
913+36.49	REVERSE CROWN
913+87.43	CROWN REMOVED
914+38.38	BEGIN NORMAL CROWN

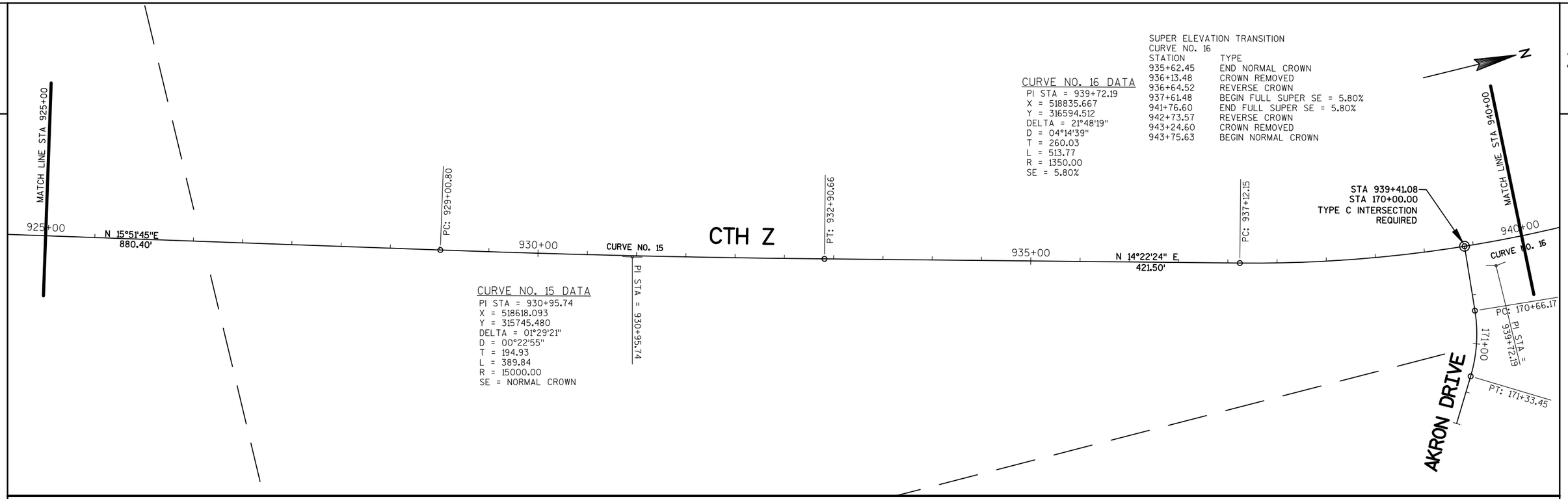
CURVE NO. 14 DATA

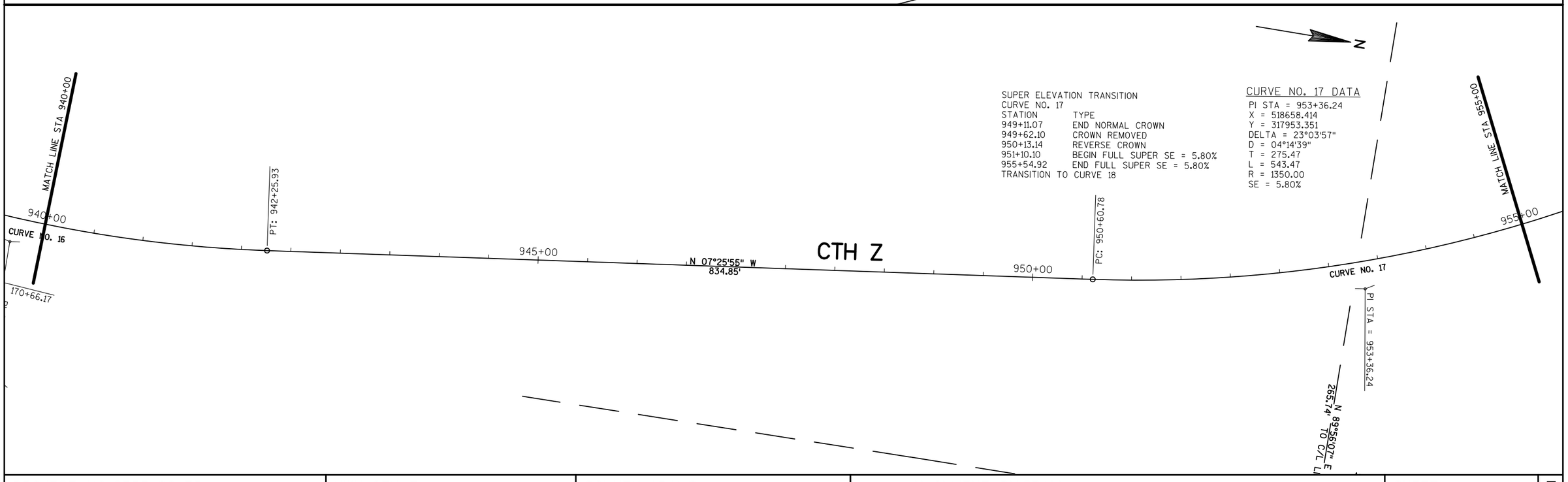
PI STA = 918+48.64
X = 518277.138
Y = 314545.561
DELTA = 06°03'43"
D = 01°45'47"
T = 172.09
L = 343.85
R = 3250.00
SE = 3.70%

SUPER ELEVATION TRANSITION
CURVE NO. 14

STATION	TYPE
915+63.07	END NORMAL CROWN
916+13.88	CROWN REMOVED SE = 0.0%
917+07.88	BEGIN FULL SUPER SE = 3.70%
919+89.08	END FULL SUPER
920+32.27	REVERSE CROWN
920+83.08	CROWN REMOVED
921+33.89	BEGIN NORMAL CROWN

PROJECT NO:6355-00-75	HWY: CTH Z	COUNTY: ADAMS	ALIGNMENT DIAGRAM	SHEET 38	E





PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	ALIGNMENT DIAGRAM	SHEET 39	E

2

N

MATCH LINE STA 955+00

955+00

PT: 956+04.25

N 30°29'52" W
197.39'

PC: 958+01.64

960+00

CURVE NO. 18

PI STA = 960+61.74

AKRON AVENUE

181+00

STA 961+50.93
STA 180+00.00
TYPE C INTERSECTION
REQUIRED

PT: 963+21.40

CTH Z

965+00

N 36°20'13" W
443.42'

PC: 967+64.82

970+00

MATCH LINE STA 970+00

SUPER ELEVATION TRANSITION
CURVE NO. 18
STATION TYPE
TRANSITION FROM CURVE 17
958+23.63 BEGIN FULL SUPER SE = 2.60%
962+99.40 END FULL SUPER SE = 2.60%
963+14.64 REVERSE CROWN
963+65.40 CROWN REMOVED
964+16.17 BEGIN NORMAL CROWN

CURVE NO. 18 DATA
PI STA = 960+61.74
X = 518286.433
Y = 318584.906
DELTA = 05°50'21"
D = 01°07'24"
T = 260.11
L = 519.77
R = 5100.00
SE = 2.60%

970+00

MATCH LINE STA 970+00

CURVE NO. 19

PRC: 973+69.24

975+00

CURVE NO. 20

PT: 976+55.65

PI STA = 975+26.97

N 19°25'31" E
165.50'

PC: 978+21.16

CTH Z

980+00

CURVE NO. 21

PI STA = 982+87.59

985+00

MATCH LINE STA 985+00

CURVE NO. 19 DATA
PI STA = 972+39.70
X = 517588.188
Y = 319534.167
DELTA = 115°26'08"
D = 19°05'55"
T = 474.88
L = 604.42
R = 300.00
SE = 5.80%

SUPER ELEVATION TRANSITION
CURVE NO. 19
STATION TYPE
966+58.61 END NORMAL CROWN
966+94.82 CROWN REMOVED
967+31.03 REVERSE CROWN
967+99.82 BEGIN FULL SUPER SE = 5.80%
973+34.24 END FULL SUPER SE = 5.80%
TRANSITION TO CURVE #20

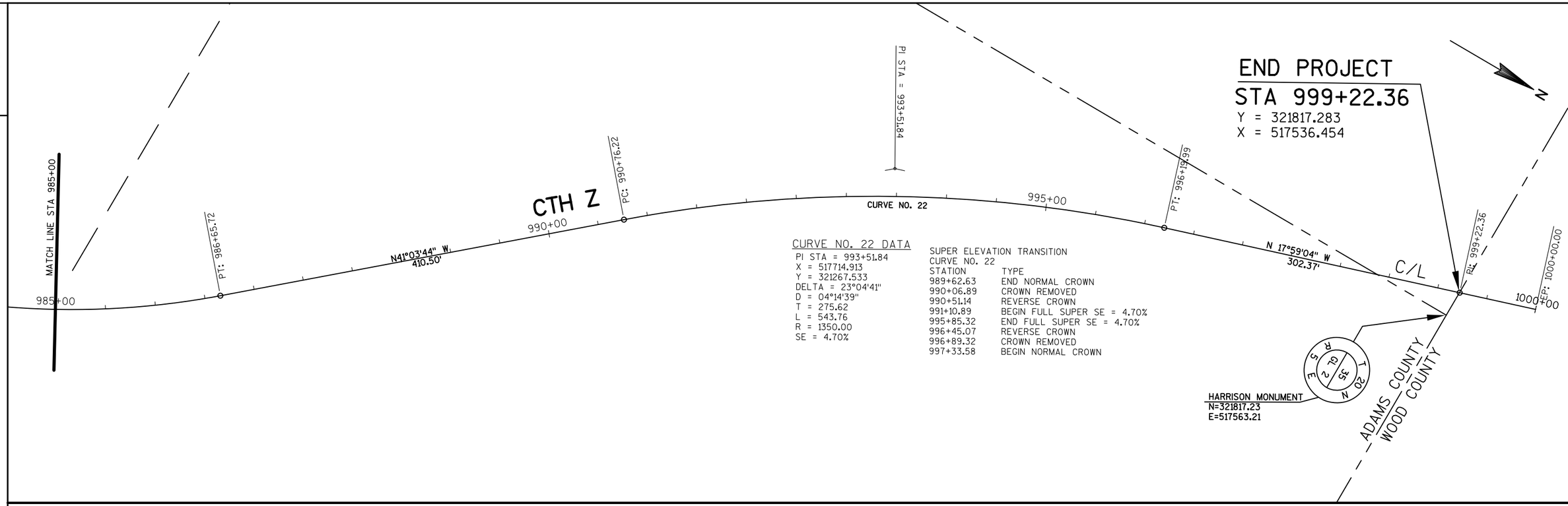
SUPER ELEVATION TRANSITION
CURVE NO. 20
STATION TYPE
TRANSITION FROM CURVE 19
974+04.90 BEGIN FULL SUPER SE = 5.90%
976+19.99 END FULL SUPER SE = 5.90%
TRANSITION TO CURVE 21

CURVE NO. 20 DATA
PI STA = 975+26.97
X = 518209.378
Y = 319653.807
DELTA = 59°40'24"
D = 20°50'05"
T = 157.73
L = 286.41
R = 275.00
SE = 5.90%

SUPER ELEVATION TRANSITION
CURVE NO. 21
STATION TYPE
CONTINUE FULL SUPER FROM CURVE 20
978+64.82 BEGIN FULL SUPER SE = 5.90%
986+22.06 END FULL SUPER SE = 5.90%
987+08.65 REVERSE CROWN
987+53.06 CROWN REMOVED
987+97.47 BEGIN NORMAL CROWN

CURVE NO. 21 DATA
PI STA = 982+87.59
X = 518471.999
Y = 320398.517
DELTA = 60°29'15"
D = 07°09'43"
T = 466.43
L = 844.57
R = 800.00
SE = 5.90%

PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	ALIGNMENT DIAGRAM	SHEET 40	E



CURVE NO. 22 DATA

PI STA	= 993+51.84
X	= 517714.913
Y	= 321267.533
DELTA	= 23°04'41"
D	= 04°14'39"
T	= 275.62
L	= 543.76
R	= 1350.00
SE	= 4.70%

SUPER ELEVATION TRANSITION
CURVE NO. 22

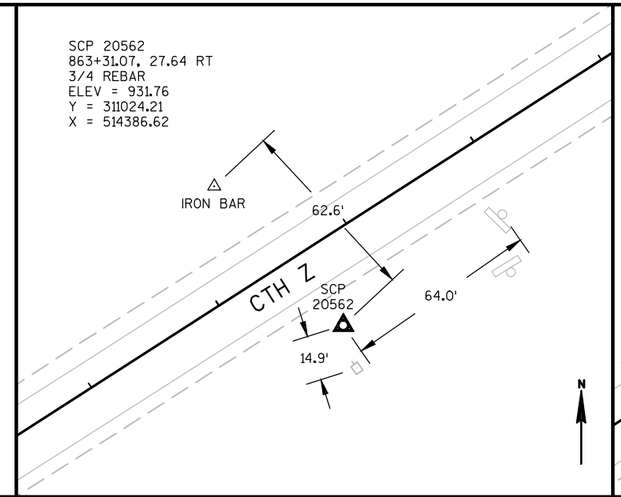
STATION	TYPE
989+62.63	END NORMAL CROWN
990+06.89	CROWN REMOVED
990+51.14	REVERSE CROWN
991+10.89	BEGIN FULL SUPER SE = 4.70%
995+85.32	END FULL SUPER SE = 4.70%
996+45.07	REVERSE CROWN
996+89.32	CROWN REMOVED
997+33.58	BEGIN NORMAL CROWN

THIS AREA LEFT BLANK INTENTIONALLY

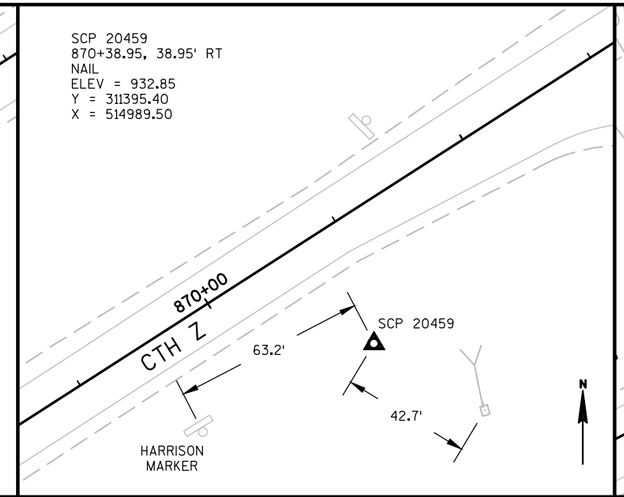
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	ALIGNMENT DIAGRAM	SHEET 41	E

2

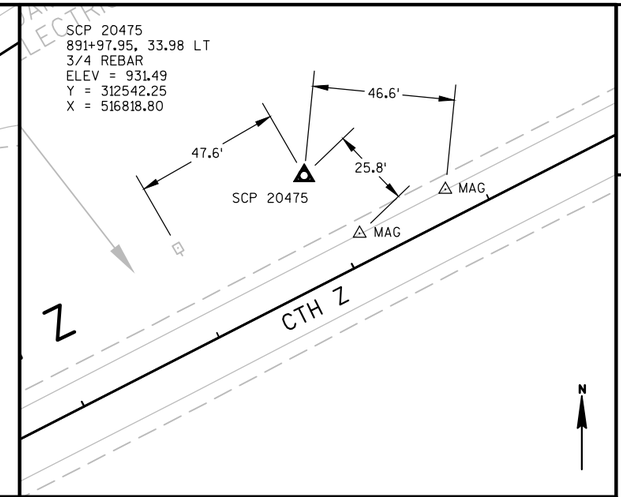
SCP 20562
863+31.07, 27.64 RT
3/4 REBAR
ELEV = 931.76
Y = 311024.21
X = 514386.62



SCP 20459
870+38.95, 38.95' RT
NAIL
ELEV = 932.85
Y = 311395.40
X = 514989.50

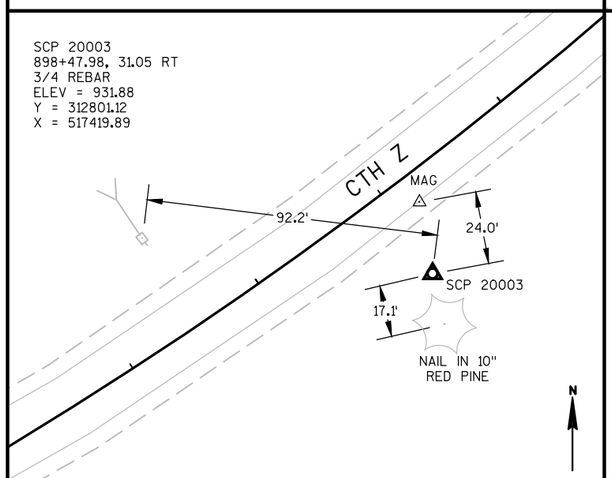


SCP 20475
891+97.95, 33.98 LT
3/4 REBAR
ELEV = 931.49
Y = 312542.25
X = 516818.80

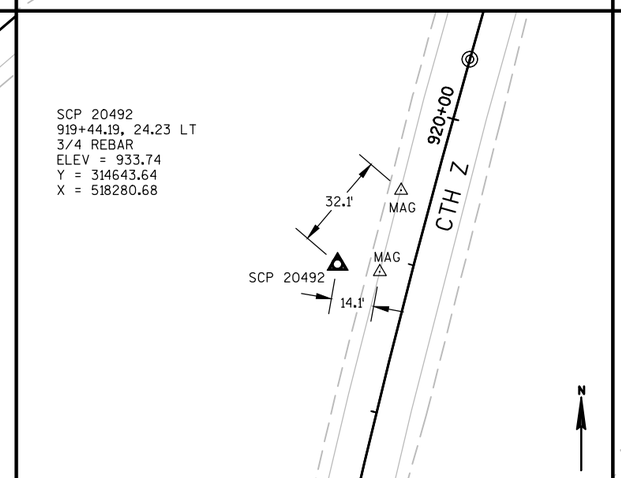


2

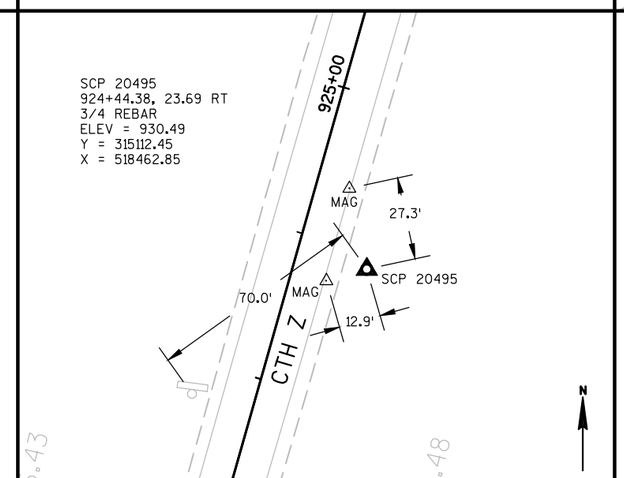
SCP 20003
898+47.98, 31.05 RT
3/4 REBAR
ELEV = 931.88
Y = 312801.12
X = 517419.89



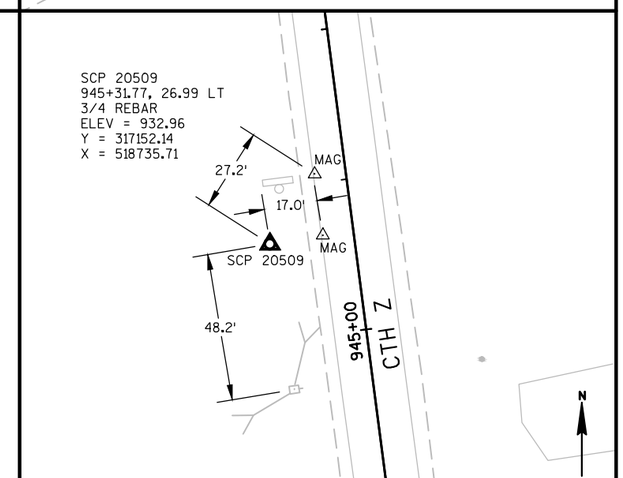
SCP 20492
919+44.19, 24.23 LT
3/4 REBAR
ELEV = 933.74
Y = 314643.64
X = 518280.68



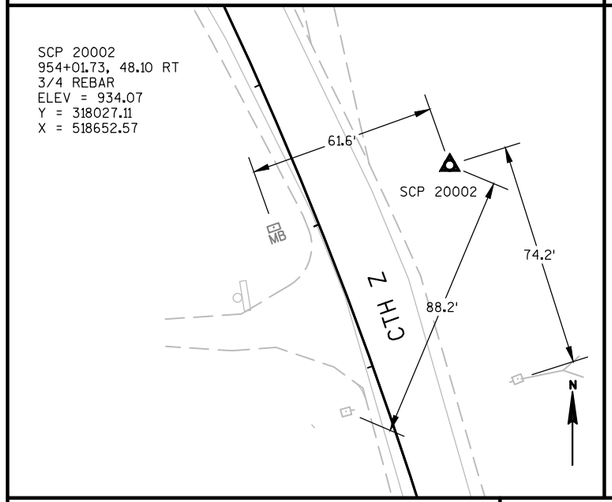
SCP 20495
924+44.38, 23.69 RT
3/4 REBAR
ELEV = 930.49
Y = 315112.45
X = 518462.85



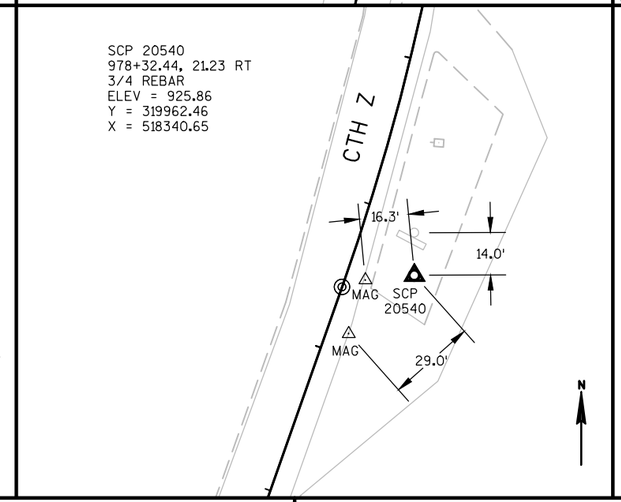
SCP 20509
945+31.77, 26.99 LT
3/4 REBAR
ELEV = 932.96
Y = 317152.14
X = 518735.71



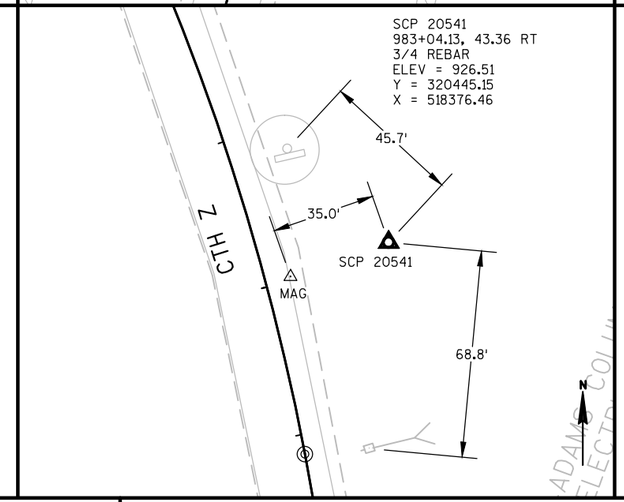
SCP 20002
954+01.73, 48.10 RT
3/4 REBAR
ELEV = 934.07
Y = 318027.11
X = 518652.57



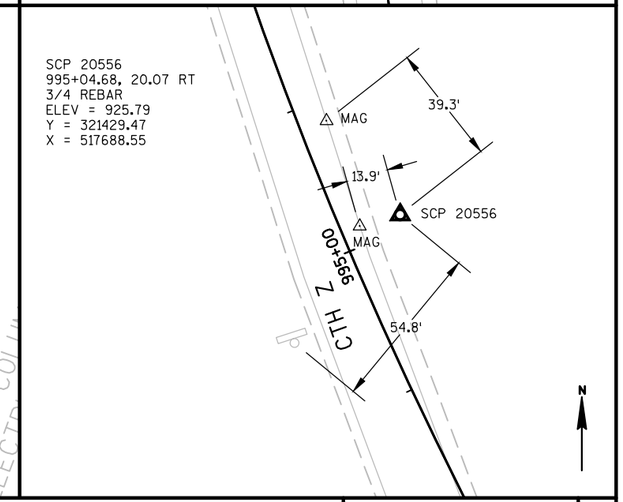
SCP 20540
978+32.44, 21.23 RT
3/4 REBAR
ELEV = 925.86
Y = 319962.46
X = 518340.65



SCP 20541
983+04.13, 43.36 RT
3/4 REBAR
ELEV = 926.51
Y = 320445.15
X = 518376.46



SCP 20556
995+04.68, 20.07 RT
3/4 REBAR
ELEV = 925.79
Y = 321429.47
X = 517688.55



PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CONTROL POINT TIES	SHEET 42	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\SHEETSPLAN\CONTROL TIES.DWG
LAYOUT NAME - SHEET - (11)
PLOT DATE : 10/4/2017 7:39 AM
PLOT BY : ANDREW LEE
PLOT NAME :
PLOT SCALE : **********

6355-00-75

Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	155.000	155.000
0004	201.0205	Grubbing	STA	155.000	155.000
0006	203.0100	Removing Small Pipe Culverts	EACH	5.000	5.000
0008	203.0200	Removing Old Structure (station) 01. STA 923+25	LS	1.000	1.000
0010	204.0110	Removing Asphaltic Surface	SY	34,460.000	34,460.000
0012	204.0165	Removing Guardrail	LF	2,850.000	2,850.000
0014	205.0100	Excavation Common	CY	74,763.000	74,763.000
0016	206.3000	Excavation for Structures Retaining Walls (structure) 01. R-01-002	LS	1.000	1.000
0018	213.0100	Finishing Roadway (project) 01. 6355-00-75	EACH	1.000	1.000
0020	214.0100	Obliterating Old Road	STA	6.500	6.500
0022	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,405.000	1,405.000
0024	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	39,650.000	39,650.000
0026	440.4410	Incentive IRI Ride	DOL	10,080.000	10,080.000
0028	455.0605	Tack Coat	GAL	1,324.000	1,324.000
0030	460.2000	Incentive Density HMA Pavement	DOL	8,740.000	8,740.000
0032	460.5223	HMA Pavement 3 LT 58-28 S	TON	6,733.000	6,733.000
0034	460.5224	HMA Pavement 4 LT 58-28 S	TON	6,909.000	6,909.000
0036	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	19.000	19.000
0038	465.0315	Asphaltic Flumes	SY	50.000	50.000
0040	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	13,739.000	13,739.000
0042	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	8,750.000	8,750.000
0044	502.0110.S	Concrete Masonry Soldier Pile Footings	CY	130.000	130.000
0046	506.0605	Structural Steel HS	LB	95,185.000	95,185.000
0048	517.0600	Painting Epoxy System (structure) 01. R-01-002	LS	1.000	1.000
0050	517.1015.S	Concrete Staining Multi-Color (structure) 01. R-01-002	SF	8,021.000	8,021.000
0052	517.1050.S	Architectural Surface Treatment (structure) 01. R-01-002	SF	8,021.000	8,021.000
0054	520.1018	Apron Endwalls for Culvert Pipe 18-Inch	EACH	4.000	4.000
0056	520.1024	Apron Endwalls for Culvert Pipe 24-Inch	EACH	2.000	2.000
0058	520.1048	Apron Endwalls for Culvert Pipe 48-Inch	EACH	2.000	2.000
0060	520.3148	Culvert Pipe Class III 48-Inch	LF	64.000	64.000
0062	520.3318	Culvert Pipe Class III-A 18-Inch	LF	112.000	112.000
0064	520.3324	Culvert Pipe Class III-A 24-Inch	LF	58.000	58.000
0066	521.1283	Apron Endwalls for Pipe Arch Steel 83x57-Inch	EACH	2.000	2.000
0068	521.1515	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 15-Inch 6 to 1	EACH	28.000	28.000
0070	521.3115	Culvert Pipe Corrugated Steel 15-Inch	LF	378.000	378.000
0072	521.3783	Pipe Arch Corrugated Steel 83x57-Inch	LF	90.000	90.000
0074	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	1.000	1.000

6355-00-75

Line	Item	Item Description	Unit	Total	Qty
0076	532.1000.S	Precast Panels for Soldier Pile Walls	SF	8,021.000	8,021.000
0078	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	1,671.000	1,671.000
0080	602.0405	Concrete Sidewalk 4-Inch	SF	48.000	48.000
0082	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	20.000	20.000
0084	606.0200	Riprap Medium	CY	82.000	82.000
0086	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	44.000	44.000
0088	611.0627	Inlet Covers Type HM	EACH	1.000	1.000
0090	611.1230	Catch Basins 2x3-FT	EACH	1.000	1.000
0092	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	400.000	400.000
0094	614.0396	Guardrail Mow Strip Asphalt	SY	160.000	160.000
0096	614.2300	MGS Guardrail 3	LF	983.000	983.000
0098	614.2330	MGS Guardrail 3 K	LF	2,437.000	2,437.000
0100	614.2340	MGS Guardrail 3 L	LF	225.000	225.000
0102	614.2350	MGS Guardrail Short Radius	LF	12.570	12.570
0104	614.2610	MGS Guardrail Terminal EAT	EACH	9.000	9.000
0106	614.2630	MGS Guardrail Short Radius Terminal	EACH	1.000	1.000
0108	616.0206	Fence Chain Link 6-FT	LF	400.000	400.000
0110	618.0100	Maintenance And Repair of Haul Roads (project) 01. 6355-00-75	EACH	1.000	1.000
0112	619.1000	Mobilization	EACH	1.000	1.000
0114	624.0100	Water	MGAL	793.000	793.000
0116	625.0100	Topsoil	SY	25,635.000	25,635.000
0118	625.0500	Salvaged Topsoil	SY	25,635.000	25,635.000
0120	627.0200	Mulching	SY	48,420.000	48,420.000
0122	628.1104	Erosion Bales	EACH	200.000	200.000
0124	628.1504	Silt Fence	LF	11,525.000	11,525.000
0126	628.1520	Silt Fence Maintenance	LF	11,525.000	11,525.000
0128	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0130	628.1910	Mobilizations Emergency Erosion Control	EACH	6.000	6.000
0132	628.2002	Erosion Mat Class I Type A	SY	2,850.000	2,850.000
0134	628.6005	Turbidity Barriers	SY	1,325.000	1,325.000
0136	628.7005	Inlet Protection Type A	EACH	1.000	1.000
0138	628.7015	Inlet Protection Type C	EACH	1.000	1.000
0140	628.7504	Temporary Ditch Checks	LF	550.000	550.000
0142	628.7555	Culvert Pipe Checks	EACH	25.000	25.000
0144	628.7560	Tracking Pads	EACH	5.000	5.000
0146	629.0205	Fertilizer Type A	CWT	26.300	26.300
0148	630.0120	Seeding Mixture No. 20	LB	1,126.000	1,126.000
0150	630.0140	Seeding Mixture No. 40	LB	175.000	175.000

6355-00-75

Line	Item	Item Description	Unit	Total	Qty
0152	630.0200	Seeding Temporary	LB	1,390.000	1,390.000
0154	633.5200	Markers Culvert End	EACH	12.000	12.000
0156	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	12.000	12.000
0158	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	32.000	32.000
0160	636.0050.S	Foundation Drilling (diameter) 01. 30-Inch Diamteter	LF	715.000	715.000
0162	637.2210	Signs Type II Reflective H	SF	290.900	290.900
0164	638.2602	Removing Signs Type II	EACH	63.000	63.000
0166	638.3000	Removing Small Sign Supports	EACH	43.000	43.000
0168	642.5001	Field Office Type B	EACH	1.000	1.000
0170	643.0420	Traffic Control Barricades Type III	DAY	820.000	820.000
0172	643.0705	Traffic Control Warning Lights Type A	DAY	1,640.000	1,640.000
0174	643.0900	Traffic Control Signs	DAY	11,070.000	11,070.000
0176	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0178	643.5000	Traffic Control	EACH	1.000	1.000
0180	645.0120	Geotextile Type HR	SY	5,740.000	5,740.000
0182	645.0130	Geotextile Type R	SY	196.000	196.000
0184	646.1020	Marking Line Epoxy 4-Inch	LF	48,790.000	48,790.000
0186	646.3020	Marking Line Epoxy 8-Inch	LF	190.000	190.000
0188	646.6020	Marking Stop Line Epoxy 12-Inch	LF	32.000	32.000
0190	646.7520	Marking Crosswalk Epoxy Ladder Pattern 24-Inch	LF	90.000	90.000
0192	648.0100	Locating No-Passing Zones	MI	2.520	2.520
0194	650.4000	Construction Staking Storm Sewer	EACH	1.000	1.000
0196	650.4500	Construction Staking Subgrade	LF	13,323.000	13,323.000
0198	650.5000	Construction Staking Base	LF	13,323.000	13,323.000
0200	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	1,671.000	1,671.000
0202	650.6000	Construction Staking Pipe Culverts	EACH	6.000	6.000
0204	650.6500	Construction Staking Structure Layout (structure) 01. R-01-002	LS	1.000	1.000
0206	650.9910	Construction Staking Supplemental Control (project) 01. 6355-00-75	LS	1.000	1.000
0208	650.9920	Construction Staking Slope Stakes	LF	13,323.000	13,323.000
0210	690.0150	Sawing Asphalt	LF	342.000	342.000
0212	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,000.000	2,000.000
0214	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	1,260.000	1,260.000
0216	SPV.0030	Special 01. Fertilizer for Lawn Type Turf	CWT	6.200	6.200
0218	SPV.0060	Special 01. Tieback Anchors	EACH	76.000	76.000
0220	SPV.0060	Special 02. Tieback Anchors Performance Tests	EACH	8.000	8.000
0222	SPV.0060	Special 03. Fish Habitat Structure Trees	EACH	7.000	7.000
0224	SPV.0060	Special 04. Research and Locate Existing Land Parcel Monuments	EACH	108.000	108.000

6355-00-75

Line	Item	Item Description	Unit	Total	Qty
0226	SPV.0060	Special 05. Verify and Replace Existing Land Parcel Monuments	EACH	108.000	108.000
0228	SPV.0110	Special 01. Timber Lagging	MBM	27.700	27.700
0230	SPV.0165	Special 01. Geocomposite Drain Board	SF	8,530.000	8,530.000
0232	SPV.0180	Special 01. Preparing Topsoil for Lawn Type Turf	SY	9,710.000	9,710.000
0234	SPV.0195	Special 01. Riprap Heavy Select	TON	2,960.000	2,960.000
0236	SPV.0195	Special 02. Pit Run Stone Select	TON	484.000	484.000
0238	SPV.0195	Special 03. Riprap Heavy Modified	TON	3,705.000	3,705.000

3

CLEARING AND GRUBBING

STATION	TO	STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA
868+75	-	161+50	RT	5	5
872+50	-	878+00	LT	6	6
873+50	-	881+25	RT	8	8
884+00	-	886+50	RT	3	3
888+00	-	900+00	RT	12	12
891+00	-	927+00	LT	36	36
903+50	-	904+00	RT	1	1
907+50	-	909+00	RT	2	2
912+75	-	938+75	RT	26	26
928+25	-	930+00	LT	2	2
931+25	-	947+25	LT	16	16
940+00	-	947+50	RT	8	8
948+75	-	952+75	RT	4	4
952+00	-	952+75	LT	1	1
954+75	-	955+50	LT	1	1
957+50	-	960+50	RT	3	3
962+75	-	969+50	RT,LT	7	7
963+50	-	968+75	LT	6	6
976+50	-	977+75	RT	1	1
980+75	-	981+25	RT	1	1
990+50	-	992+00	RT	2	2
995+00	-	998+00	RT	3	3
998+25	-	999+25	LT	1	1
			TOTAL	**155**	**155**

203.0100 REMOVING SMALL PIPE CULVERTS

STATION	LOCATION	EACH	COMMENTS
903+15	LT,RT	1	24-INCH CMP
941+13	LT,RT	1	12-INCH CMP
966+17	LT	1	15-INCH CMP
975+40	LT,RT	1	48-INCH CMP
998+98	LT,RT	1	48-INCH CMP
	TOTAL	**5**	

203.0200 REMOVING OLD STRUCTURE

STATION	LOCATION	LS	COMMENTS
923+25	LT,RT	1	60-INCH CMP
	TOTAL	**1**	

204.0110 REMOVING ASPHALTIC SURFACE

STATION	TO	STATION	LOCATION	SY	COMMENTS
968+50	-	973+00	LT	34460	CTH Z
			TOTAL	**34460**	

204.0165 REMOVING GUARDRAIL

STATION	TO	STATION	LOCATION	LF	COMMENTS
973+50	-	989+10	LT	1,520	CTH Z / DEVILS ELBOW
973+75	-	977+00	RT	340	CTH Z
989+28	-	999+06	LT	990	CTH Z / LAKE PETENWELL
			TOTAL	**2,850**	

Division	From/To Station	Location	205.0100 Common Excavation (1) Cut (2)	205.0100 Common Excavation (1) EBS Excavation (3)	Available Material (5)	Unexpanded Fill	Expanded Fill (13) Factor 1.25	Mass Ordinate +/- (14)	Waste
Division 1									
866+00-900+00	866+00/900+00		10,767	0	10,767	322	403	10,364	10,364
900+00-944+00	900+00/944+00		9,944	0	9,944	1,877	2,346	7,598	7,598
944+00-966+00	944+00/966+00		8,680	0	8,680	183	229	8,451	8,451
966+00-970+00	966+00/970+00		2,094	0	2,094	101	126	1,968	1,968
970+00-974+00	970+00/974+00		39,422	0	39,422	556	694	38,727	38,727
966+00-END	974+00/999+22.36		3,856	0	3,856	3,002	3,753	104	104
Division 1 Subtotal			74,763	0	74,763	6,040	7,550	67,212	67,212
Grand Total			74,763	0	74,763	6,040	7,550	67,212	67,212
Total Common Exc			74,763						

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

213.0100 FINISHING ROADWAY (6355-00-05)

STATION	TO	STATION	EACH	COMMENTS
866+00	-	999+22	1	PROJECT
		TOTAL	**1**	

214.0100 OBLITERATING OLD ROAD

STATION	TO	STATION	LOCATION	STA	COMMENTS
968+50	-	973+00	LT	6.5	DEVILS ELBOW
			TOTAL	**6.5**	

NOTE

BASE AGGREGATE DENSE 1 1/4-INCH QUANTITY IS CALCULATED AS 11" DEEP. CONTRACTOR HAS THE OPTION TO USE RECLAIMED ASPHALT AS PART OF THIS QUANTITY.

BASES AND SUBBASES

STATION	TO	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	COMMENTS
866+00	-	999+22	LT, RT	1,085	38,936	CTH Z MAINLINE
APLINE DRIVE				-	256	SIDE STREET
AKRON DRIVE				-	250	SIDE STREET
AKRON AVENUE				-	208	SIDE STREET
PRIVATE ENTRANCES				320	-	-
			TOTAL	**1,405**	**39,650**	

ASPHALTIC PAVEMENT

AREA SF	LOCATION	455.0605 TACK COAT GAL	460.5223 HMA PAVEMENT 3 LT 58-28 S TON	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS & FIELD ENTRANCES TON	465.0315 ASPHALTIC FLUMES SY
464940	866+00.00 - 999+22.36	1,292	6,684	6,684	-	-
3396	ALPINE DRIVE	10	49	49	-	-
4209	AKRON DRIVE	12	-	94	-	-
3650	AKRON AVENUE	10	-	82	-	-
	3 PE's	-	-	-	19	-
	5 FLUMES @ 10 SY	-	-	-	-	50
	TOTAL	**1,324**	**6,733**	**6,909**	**19**	**50**

NOTES: HMA PAVEMENT ESTIMATED AT 115 LB/1 INCH/SY, TACK COAT APPLICATION RATE IS 0.025 GAL/SY.
CL = COMMERCIAL ENTRANCE

465.0425 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL

STATION	TO	STATION	LOCATION	LF	COMMENTS
866+00	-	867+80	RT	144	TYPE 1
866+00	-	883+54	LT	1403	TYPE 1
874+04	-	900+46	RT	2114	TYPE 1
884+38	-	928+74	LT	3549	TYPE 1
902+04	-	917+96	RT	1274	TYPE 1
918+60	-	920+60	RT	160	TYPE 1
921+28	-	938+70	RT	1394	TYPE 1
929+44	-	932+92	LT	278	TYPE 1
933+60	-	943+12	LT	762	TYPE 1
941+04	-	943+00	RT	157	TYPE 1
943+70	-	959+68	RT	1278	TYPE 1
943+72	-	953+38	LT	773	TYPE 1
954+02	-	959+68	LT	453	TYPE 1
			TOTAL	**13,739**	

465.0475 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL

STATION	TO	STATION	LF	COMMENTS
866+00	-	869+75	375	CTH Z
873+75	-	937+41	6366	CTH Z
939+41	-	959+50	2009	CTH Z
		TOTAL	**8,750**	

CULVERTS

			CULVERT PIPE										
			CLASS III-A		CLASS III	CORRUGATED STEEL			APRON ENDWALLS FOR CULVERT PIPE					633.5200
			520.3318	520.3324	520.3148	521.3115	521.3783	THICKNESS	521.1515	520.1018	520.1024	520.1048	521.1283	MARKERS
			18-INCH	24-INCH	48-INCH	15-INCH	83X57-INCH	STEEL-INCH	15-INCH	18-INCH	24-INCH	48-INCH	83X57-INCH	CULVERT END
STATION	LOCATION	COMMENT	LF	LF	LF	LF	LF	LF	EACH	EACH	EACH	EACH	EACH	EACH
883+96	LT	CTH Z	-	-	-	40	-	0.064	2	-	-	-	-	-
900+80	RT	CTH Z	-	-	-	20	-	0.064	2	-	-	-	-	-
901+67	RT	CTH Z	-	-	-	20	-	0.064	2	-	-	-	-	-
903+15	C/L	CTH Z	-	58	-	-	-	0.064	-	-	2	-	-	2
918+28	RT	CTH Z	-	-	-	20	-	0.064	2	-	-	-	-	-
920+91	RT	CTH Z	-	-	-	30	-	0.064	2	-	-	-	-	-
923+10	C/L	CTH Z	-	-	-	-	90	0.109	-	-	-	-	2	2
929+08	LT	CTH Z	-	-	-	24	-	0.064	2	-	-	-	-	-
933+26	LT	CTH Z	-	-	-	24	-	0.064	2	-	-	-	-	-
941+13	C/L	CTH Z	52	-	-	-	-	0.064	-	2	-	-	-	2
943+36	RT	CTH Z	-	-	-	20	-	0.064	2	-	-	-	-	-
943+36	LT	CTH Z	-	-	-	20	-	0.064	2	-	-	-	-	-
953+73	LT	CTH Z	-	-	-	20	-	0.064	2	-	-	-	-	-
963+09	LT	CTH Z	-	-	-	20	-	0.064	2	-	-	-	-	-
966+17	LT	CTH Z	-	-	-	24	-	0.064	2	-	-	-	-	-
969+17	LT	CTH Z	-	-	-	24	-	0.064	2	-	-	-	-	-
970+00	C/L	CTH Z	-	-	-	72	-	0.064	2	-	-	-	-	2
975+46	C/L	CTH Z	-	-	64	-	-	0.109	-	-	-	2	-	2
998+97.82	C/L	CTH Z	60	-	-	-	-	0.064	-	2	-	-	-	2
	TOTAL		**112**	**58**	**64**	**378**	**90**		**28**	**4**	**2**	**2**	**2**	**12**

APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH 522.1012

STATION	LOCATION	COMMENT	EACH
973+34.24	LT	CTH Z	1

601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D

STATION	TO	STATION	LOCATION	LF	COMMENTS
871+17	-	871+83	LT	85	ALPINE ROAD
872+16	-	872+54	LT	70	ALPINE ROAD
970+00	-	974+00	RT	400	CTH Z / DEVILS ELBOW
985+44	-	992+00	RT	650	CTH Z
985+44	-	990+10	LT	466	CTH Z
				1,671	

602.0405 CONCRETE SIDEWALK 4-INCH

STATION	LOCATION	SF
989+17	LT	24
989+17	RT	24
	TOTAL	**48**

602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW

STATION	LOCATION	SF
989+17	LT	10
989+17	RT	10
	TOTAL	**20**

STORM SEWER

									608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH	611.1230 CATCH BASIN 2X3-FT	611.0627 INLET COVER TYPE HM
STATION	LOCATION	FROM STRUCTURE	TO STRUCTURE APRON ENDWALL	INLET ELEVATION	DISCHARGE ELEVATION	SUMP ELEVATION	SLOPE FT. / FT.	RIM/GRATE ELEVATION	LF	EACH	EACH
973+34.24	17.5' RT	CATCH BASIN	ENDWALL	925.90	925.40	924.44	.01 / 1.0	928.84	44	1	1
								TOTAL	**44**	**1**	**1**

BEAM GUARD

				614.2300 MGS GUARDRAIL 3	614.2330 MGS GUARDRAIL 3 K	614.2340 MGS GUARDRAIL 3 L	614.0395 GUARDRAIL MOW STRIP (ASPHALTIC)
STATION	TO	STATION	LOCATION	LF	LF	EA	SY
922+03	-	922+40.6	LT	-	37.50	-	-
922+03.1	-	922+65.6	RT	-	62.50	-	-
922+40.6	-	923+53.1	LT	-	-	112.5	-
922+65.6	-	923+78.1	RT	-	-	112.5	-
923+53.1	-	924+53.1	LT	-	100	-	-
923+78.1	-	924+53.1	RT	-	75	-	-
969+53.4	-	974+50	RT	496.6	-	-	160
973+00	-	985+00	LT	-	1200	-	-
974+50	-	975+97	RT	-	147	-	-
985+50	-	988+58.6	LT	358.6	-	-	-
989+74.8	-	990+50	LT	75.2	-	-	-
990+50	-	998+65	LT	-	815	-	-
998+65	-	999+17.6	LT	52.6	-	-	-
			TOTAL	**983**	**2437**	**225**	**160**

614.2610 MGS GUARDRAIL TERMINAL EAT

STATION	LOCATION	EACH
921+50	20' LT	1
921+50	20' RT	1
925+06.2	20' LT	1
925+06.2	20' RT	1
968+96.6	20' RT	1
972+50	20' LT	1
976+50.4	20' RT	1
989+11.7	19' LT	1
989+21.7	19' LT	1
	TOTAL	**9**

614.2350 MGS GUARDRAIL SHORT RADIUS

STATION	TO	STATION	LOCATION	LF
999+17.6	-	999+25.6	LT	12.57

614.2630 MGS GUARDRAIL SHORT RADIUS TERMINAL

STATION	LOCATION	EACH
999+25.6	LT	1

RIPRAP & GEOTEXTILE FABRIC

STATION	TO	STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	SPV.0195.03 RIPRAP HEAVY MODIFIED TON	645.0130 TYPE R SY	645.0120 TYPE HR SY	COMMENTS
903+15	-	-	LT, RT	16	-	40	-	CULVERT
923+25	-	-	LT, RT	30	-	50	-	CULVERT
941+13	-	-	LT, RT	12	-	30	-	CULVERT
970+00	-	-	LT, RT	8	-	30	-	CULVERT
975+40	-	-	RT	-	45	-	40	CULVERT
998+98	-	-	LT, RT	8	-	30	-	CULVERT
921+50	-	925+00	LT	8	720	16	1000	CULVERT
921+50	-	925+00	RT	-	680	-	1000	CTH Z SIDESLOPES
973+50	-	976+00	LT	-	400	-	700	CTH Z SIDESLOPES
976+60	-	984+00	LT	-	1,250	-	2100	CTH Z SIDESLOPES
990+50	-	992+25	LT	-	410	-	600	CTH Z SIDESLOPES
995+75	-	997+00	LT	-	200	-	300	CTH Z SIDESLOPES
			TOTAL	**82**	**3,705**	**196**	**5740**	

616.0206 FENCE CHAIN LINK 6-FT

STATION	TO	STATION	LOCATION	LF	COMMENTS
970+25	-	974+00	RT	400	CTH Z
		TOTAL		**400**	

619.1000 MOBILIZATION

LOCATION	EACH
PROJECT	1

FINISHING ITEMS

STATION	TO	STATION	LOCATION	625.0100 TOPSOIL SY	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	628.2002 EROSION MAT CLASS I, TYPE A SY	629.0205 FERTILIZER TYPE A CWT	SPV.0030.01 FERTILIZER FOR LAWN TYPE TURF CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	SPV.0180.01 PREPARING TOPSOIL FOR LAWN TYPE TURF SY
866+00	-	871+75	RT	665	665	1,330	-	0.9	-	36	-	36	-
866+00	-	920+50	LT	4,370	4,370	8,740	-	5.5	-	236	-	236	-
871+75	-	921+00	RT	3,030	3,030	6,060	-	3.8	-	164	-	164	-
901+00	-	902+50	RT	140	140	280	-	-	0.2	-	5	8	280
902+50	-	916+50	RT	1,085	1,085	2,170	-	1.4	-	59	-	59	-
916+50	-	918+25	RT	230	230	460	-	-	0.3	-	9	13	460
918+25	-	920+50	RT	335	335	670	-	0.4	-	18	-	18	-
925+00	-	939+41	RT	1,225	1,225	2,450	-	1.5	-	66	-	66	-
925+00	-	928+00	LT	315	315	630	-	0.4	-	17	-	17	-
928+00	-	929+00	LT	115	115	230	-	-	0.2	-	4	6	230
929+00	-	966+50	LT	4,260	4,260	8,520	-	5.4	-	230	-	230	-
966+50	-	973+50	LT	3,400	3,400	6,800	-	-	4.3	-	122	184	6800
939+41	-	942+00	RT	310	310	620	-	0.4	-	17	-	17	-
942+00	-	944+50	RT	330	330	660	-	-	0.4	-	12	18	660
944+50	-	961+50	RT	1,690	1,690	3,380	-	2.1	-	92	-	92	-
961+50	-	981+50	RT	2,320	2,320	1,790	2,850	2.9	-	126	-	126	-
981+50	-	992+00	RT	640	640	1,280	-	-	0.8	-	23	35	1280
992+00	-	999+22	RT	815	815	1,630	-	1.0	-	44	-	44	-
976+00	-	976+60	LT	15	15	30	-	0.1	-	1	-	1	-
984+00	-	990+50	LT	210	210	420	-	0.3	-	12	-	12	-
992+25	-	995+80	LT	70	70	140	-	0.1	-	4	-	4	-
997+00	-	999+22	LT	65	65	130	-	0.1	-	4	-	4	-
			TOTAL	**25,635**	**25,635**	**48,420**	**2,850**	**26.3**	**6.2**	**1,126**	**175**	**1,390**	**9,710**

NOTES: FERTILIZER APPLICATION RATE = 7LB/1000 SF, SEEDING APPLICATION RATE = 3LB/1000 SF (MIX NO. 20 & TEMP.) 2LB/1000 SF (MIX NO. 40)

EROSION CONTROL

STATION	TO	STATION	LOCATION	628.1104 EROSION BALES EACH	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EACH	628.1910 MOBILIZATIONS EMERGENCY EACH	628.7005 INLET PROTECTION TYPE A EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7560 TRACKING PADS EACH	COMMENT
866+00	-	870+00	LT	-	400	400	-	-	-	-	-	CTH Z
893+00	-	903+00	LT	-	1000	1000	-	-	-	-	-	CTH Z
903+25	-	923+00	LT	-	1975	1975	-	-	-	-	-	CTH Z
921+50	-	923+25	RT	-	175	175	-	-	-	-	-	CTH Z
923+25	-	928+00	RT	-	475	475	-	-	-	-	-	CTH Z
923+25	-	927+00	RT	-	375	375	-	-	-	-	-	CTH Z
931+50	-	171+50	RT	-	830	830	-	-	-	-	-	CTH Z/AKRON DR
171+50	-	942+00	RT	-	320	320	-	-	-	-	-	CTH Z/AKRON DR
937+50	-	942+00	LT	-	450	450	-	-	-	-	-	CTH Z
970+00	-	973+00	LT	-	300	300	-	-	-	-	-	DEVILS ELBOW
975+00	-	980+00	RT	-	500	500	-	-	-	-	-	CTH Z
866+00			CL	-	-	-	-	-	-	-	1	CTH Z
160+97			CL	-	-	-	-	-	-	-	1	ALPINE DR
171+33			CL	-	-	-	-	-	-	-	1	AKRON DR
181+10			CL	-	-	-	-	-	-	-	1	AKRON AVE
973+34			RT	-	-	-	-	-	1	1	-	CTH Z
999+22			CL	-	-	-	-	-	-	-	1	CTH Z
994+00	-	999+25	LT	-	525	525	-	-	-	-	-	CTH Z
UNDISTRIBUTED			LT, RT	200	4,200	4,200	-	-	-	-	-	PROJECT
PROJECT			LT, RT	-	-	-	4	6	1	1	5	PROJECT
			TOTAL	**200**	**11,525**	**11,525**	**4**	**6**	**1**	**1**	**5**	

3

624.0100 WATER

STATION	TO	STATION	MGAL
866+00	-	999+22	779
ALPINE DRIVE			5
AKRON DRIVE			5
AKRON AVENUE			4
			793

628.6005 TURBIDTY BARRIERS

STATION	TO	STATION	LOCATION	SY *	COMMENT
903+00	-	903+25	LT	45	CULVERT
923+00	-	923+25	LT	45	CULVERT
973+00	-	994+00	LT	1,135	CTH Z
974+75	-	975+75	LT	100	CTH Z
			TOTAL	**1,325**	

* ASSUMED 5 FOOT HIGH

TEMPORARY DITCH CHECKS

		628.7504
STATION	LOCATION	LF
871+00	RT	14
875+00	RT	12
875+00	LT	6
879+00	RT	16
879+00	LT	12
883+00	RT	12
883+00	LT	10
886+00	RT	14
886+00	LT	14
888+00	RT	12
888+00	LT	14
992+00	RT	12
992+00	LT	14
896+00	RT	10
904+00	RT	14
916+00	RT	12
920+50	RT	12
928+00	RT	12
928+00	LT	14
931+50	RT	10
933+00	LT	10
937+50	RT	10
937+50	LT	12
941+00	LT	12
941+50	LT	12
944+00	RT	14
944+00	LT	14
948+00	RT	12
948+00	LT	12
957+00	RT	14
957+00	LT	14
960+50	RT	14
960+50	LT	12
965+00	RT	12
965+00	LT	14
968+50	RT	10
968+50	LT	16
971+00	LT	14
972+50	LT	14
998+00	RT	12
UNDISTRUBUTED	-	50
	TOTAL	550

CULVERT PIPE CHECKS

		628.7555
STATION	LOCATION	EACH
883+96	LT	1
900+80	RT	1
901+67	LT	1
903+15	RT	3
918+28	LT	1
920+91	RT	1
929+08	LT	1
933+26	RT	1
941+13	LT	2
943+36	RT	1
943+36	LT	1
953+73	RT	1
963+09	LT	1
966+17	RT	1
969+17	LT	1
970+00	RT	1
998+97.82	LT	2
UNDISTRIBUTED	RT	4
	TOTAL	25

642.5001 FIELD OFFICE TYPE B

LOCATION	EACH
PROJECT	1
TOTAL	**1**

648.0100 LOCATING NO-PASSING ZONES

STATION	TO	STATION	MI	COMMENT
866+00	-	999+23	2.52	CTH Z MAINLINE
		TOTAL	**2.52**	

690.0150 SAWING ASPHALT

STATION	LOCATION	LF	COMMENT
86600	LT, RT	22	CTH Z TERMINI
ALPINE DRIVE	RT	30	INTERSECTION
AKRON DRIVE	RT	22	INTERSECTION
AKRON AVENUE	RT	22	INTERSECTION
999+23	LT, RT	22	CTH Z TERMINI
929+08	LT	16	DRIVEWAY
985+64	RT	18	DRIVEWAY
989+32	RT	190	DRIVEWAY
	TOTAL	**342**	

3

CONSTRUCTION STAKING

STATION	TO	STATION	LOCATION	650.4000 STORM SEWER LF	650.4500 SUBGRADE LF	650.5000 BASE LF	650.5500 CURB GUTTER AND CURB & LF	650.6000 PIPE CULVERTS EACH	650.6500 STRUCTURE LAYOUT (STRUCTURE LS	650.9910 SUPPLEMENTAL CONTROL LS	650.9920 SLOPE STAKES LF
866+00	-	999+23	LT, RT	-	13,323	13,323	-	-	-	-	13,323
903+15	-	-	LT,RT	-	-	-	-	1	-	-	-
923+10	-	-	LT,RT	-	-	-	-	1	-	-	-
941+14	-	-	LT, RT	-	-	-	-	1	-	-	-
970+00	-	-	LT, RT	-	-	-	-	1	-	-	-
973+34	-	-	LT,RT	1	-	-	-	-	-	-	-
975+40	-	-	LT, RT	-	-	-	-	1	-	-	-
998+98	-	-	LT, RT	-	-	-	-	1	-	-	-
871+17	-	871+83	RT	-	-	-	85	-	-	-	-
872+16	-	872+54	RT	-	-	-	70	-	-	-	-
970+00	-	974+00	RT	-	-	-	400	-	-	-	-
985+50	-	992+00	RT	-	-	-	650	-	-	-	-
985+44	-	990+10	LT	-	-	-	466	-	-	-	-
PROJECT: 6355-00-05			-	-	-	-	-	-	-	1	-
SUBTOTAL (0010)				1	13,323	13,323	1,671	6	0	1	13,323
STRUCTURE: R-01-002			RT	-	-	-	-	-	1	-	-
SUBTOTAL				-	-	-	-	-	1	-	
			PROJECT TOTAL	**1**	**13,323**	**13,323**	**1,671**	**6**	**1**	**1**	**13,323**

TRAFFIC CONTROL

LOCATION	SERVICE PERIOD DAYS	643.5000 TRAFFIC CONTROL 6355-00-75 EACH	BARRICADES TYPE III EACH	643.0420 BARRICADES TYPE III DAYS	WARNING LIGHTS TYPE A EACH	643.0705 WARNING LIGHTS TYPE A DAYS	SIGNS EACH	643.0900 SIGNS DAYS	PCMS SIGNS EACH	643.1050 PCMS SIGNS DAYS
PROJECT	82	1	10	820	20	1640	135	11,070	2	14
	TOTAL	**1**		**820**		**1640**		**11,070**		**14**

PAVEMENT MARKING

STATION	TO	STATION	LOCATION	646.1020 MARKING LINE EPOXY 4-INCH (WHITE LANE LINE) LF	646.1020 MARKING LINE EPOXY 4-INCH (WHITE EDGE LINE) LF	646.1020 MARKING LINE EPOXY 4-INCH (YELLOW CENTER LINE) LF	646.3020 MARKING LINE EPOXY 8-INCH (CHANNELIZING) LF	646.6020 MARKING STOP LINE EPOXY 12-INCH LF	646.7520 MARKING CROSSWALK EPOXY LADDER PATTERN 24-INCH LF
866+00	-	871+17	NB	-	518	-	-	-	-
866+00	-	989+15	SB	-	12,295	-	-	-	-
872+54	-	938+71	NB	-	6,628	-	-	-	-
939+94	-	960+84	NB	-	2,098	-	-	-	-
962+11	-	989+15	NB	-	2,706	-	-	-	-
989+21	-	999+22	NB	-	997	-	-	-	-
989+21	-	999+22	SB	-	1,006	-	-	-	-
866+00	-	871+66	NB	-	-	566	-	-	-
872+16	-	917+00	NB	-	-	4,484	-	-	-
917+00	-	928+73	NB*	-	-	293	-	-	-
928+73	-	938+71	NB	-	-	1,050	-	-	-
940+10	-	961+34	NB	-	-	2,165	-	-	-
961+67	-	989+50	NB	-	-	2,748	-	-	-
989+21	-	999+22	NB	-	-	1,001	-	-	-
866+00	-	898+50	SB*	-	-	812	-	-	-
898+50	-	928+10	SB	-	-	2,960	-	-	-
928+10	-	940+10	SB*	-	-	300	-	-	-
940+10	-	961+34	SB	-	-	2,123	-	-	-
961+67	-	989+15	SB	-	-	2,748	-	-	-
989+21	-	999+22	SB	-	-	1,002	-	-	-
870+75	-	873+25	SB	63	-	-	-	-	-
869+17	-	871+07	NB	-	-	-	190	-	-
898+18				-	-	-	-	-	90
160+71	-	160+98	EB	-	28	-	-	-	-
160+86	-	160+98	WB	-	11	-	-	-	-
160+38	-	161+31	EB	-	-	94	-	-	-
160+38	-	161+31	WB	-	-	94	-	-	-
160+38			WB	-	-	-	-	32	-
			TOTAL	63	26,287	22,440	190	32	90
			GRAND TOTAL 4-INCH		**48,790**				

NOTES:
C/L = CENTERLINE, NB = NORTHBOUND LANE, SB=SOUTHBOUND LANE
* REFERS TO SINGLE DASHED PASSING LINE

SPV.0060.04 RESEARCH AND LOCATE EXISTING LAND PARCEL MONUMENTS

STATION	LOCATION	EACH
CTH Z	LT & RT	108
	TOTAL	**108**

SPV.0060.05 VERIFY AND REPLACE EXISTING LAND PARCEL MONUMENTS

STATION	LOCATION	EACH
CTH Z	LT & RT	108
	TOTAL	**108**

SPV.0060.03 FISH HABITAT STRUCTURE TREES

STATION	LOCATION	EACH
972+50	LT	1
973+95	LT	1
974+05	LT	1
977+00	LT	1
979+88	LT	1
980+12	LT	1
983+00	LT	1
	TOTAL	**7**

RIPRAP HEAVY SELECT

STATION	TO	STATION	LOCATION	SPV.0195.01 RIPRAP HEAVY SELECT TON
921+50	-	925+00	RT	375
921+50	-	925+00	LT	375
973+50	-	976+00	LT	448
976+60	-	984+00	LT	1,295
990+50	-	992+25	LT	306
995+75	-	997+00	LT	161
			TOTAL	**2,960**

PIT RUN STONE SELECT

STATION	TO	STATION	LOCATION	SPV.0195.02 PIT RUN STONE SELECT TON
921+50	-	925+00	RT	46
921+50	-	925+00	LT	46
973+50	-	976+00	LT	83
976+60	-	984+00	LT	230
990+50	-	992+25	LT	54
995+75	-	997+00	LT	25
			TOTAL	**484**

PERMANENT SIGNS

SIGN NUMBER	SIGN CODE	SIGN NAME	STA	LOC	SIZE	634.0612 POSTS WOOD 4X6-INCH X 12-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	637.2210 SIGNS REFLECTIVE H TYPE II SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
1	R2-1	SPEED LIMIT 55 MPH	866+00	LT	24" X 30"	-	1	5.00	-	-	
2	M3-3	CARDINAL DIRECTION MARKER SOUTH	867+00	LT	12" X 24"	-	1	2.00	-	-	
3	M1-5A	CTH ROUTE MARKER	867+00	LT	24" X 24"	-	-	4.00	-	-	WITH SIGN 2
	R12-55	35 TON BRIDGE 1/2 MI. AHEAD	870+67	LT	48" X 18"	-	-	-	1	1	
	W1-7	TWO DIRECTION LARGE ARROW	871+39	LT	48" X 24"	-	-	-	1	1	
4	W1-7	TWO DIRECTION LARGE ARROW	871+87	LT	48" X 24"	-	1	8.00	-	-	
	R1-1	STOP	872+17	RT	30" X 30"	-	-	8.00	1	1	
5	R1-1	STOP	872+19	RT	30" X 30"	-	1	5.18	-	-	ALPINE DRIVE
6	M1-5A	CTH ROUTE MARKER	872+24	RT	24" X 24"	-	1	4.00	-	-	
7	M6-4	TWO DIRECTION SMALL ARROW	872+24	RT	21" X 21"	-	-	3.06	-	-	WITH SIGN 6
8	R12-55	35 TON BRIDGE 1/2 MI. AHEAD	874+00	LT	48" X 18"	-	1	6.00	-	-	
	W1-2R	CURVE RIGHT	876+91	RT	30" X 30"	-	-	-	1	1	
9	M1-5A	CTH ROUTE MARKER	876+91	RT	24" X 24"	-	1	4.00	-	-	
10	M3-1	CARDINAL DIRECTION MARKER NORTH	876+91	RT	24" X 12"	-	-	2.00	-	-	WITH SIGN 9
11	R2-1	SPEED LIMIT 55	878+00	RT	24" X 30"	-	1	5.00	-	-	
	W1-2L	CURVE LEFT	886+27	LT	30" X 30"	-	-	-	1	1	
	W14-3	NO PASSING ZONE	887+11	LT	48" X 36"	-	-	-	1	1	
12	W14-3	NO PASSING ZONE	887+75	LT	48" X 36"	-	1	6.00	-	-	
	W1-4L	REVERSE CURVE LEFT	893+01	RT	30" X 30"	-	-	-	1	1	
	W1-4L	REVERSE CURVE LEFT	923+89	LT	30" X 30"	-	-	-	1	1	
	W14-3	NO PASSING ZONE	927+96	RT	48" X 36"	-	-	-	1	1	
13	W14-3	NO PASSING ZONE	928+10	RT	48" X 36"	-	1	6.00	-	-	
	W14-3	NO PASSING ZONE	928+72	LT	48" X 36"	-	-	-	1	1	
14	W14-3	NO PASSING ZONE	928+72	LT	48" X 36"	-	1	6.00	-	-	
	W1-2L	CURVE LEFT	934+33	RT	30" X 30"	-	-	-	1	1	
	W13-1	ADVISORY SPEED	934+33	RT	24" X 18"	-	-	-	1	-	WITH W1-2L; 40 MPH
	S3-1	SCHOOL BUS STOP AHEAD	935+88	RT	30" X 30"	-	-	-	1	1	
15	W1-7	TWO DIRECTION LARGE ARROW	939+41	LT	48" X 24"	-	1	8.00	-	-	
16	R1-1	STOP	939+72	RT	30" X 30"	-	1	5.18	-	-	AKRON DRIVE
17	M1-5A	CTH ROUTE MARKER	939+76	RT	24" X 24"	-	1	4.00	-	-	
18	M6-4	TWO DIRECTION SMALL ARROW	939+76	RT	21" X 21"	-	-	3.06	-	-	WITH SIGN 17
	R1-1	STOP	939+99	RT	30" X 30"	-	-	-	1	1	
	W1-2R	CURVE RIGHT	945+50	LT	30" X 30"	-	-	-	1	1	
	W13-1	ADVISORY SPEED	945+50	LT	24" X 18"	-	-	-	1	-	WITH W1-2R; 40 MPH
	W1-2L	CURVE LEFT	948+21	RT	30" X 30"	-	-	-	1	1	
	W13-1	ADVISORY SPEED	948+21	RT	24" X 18"	-	-	-	1	-	WITH W1-2L; 40 MPH
19	W3-5	REDUCE SPEED AHEAD TO 45 MPH	957+00	RT	36" X 36"	-	1	9.00	-	-	
	W1-2R	CURVE RIGHT	958+45	LT	30" X 30"	-	-	-	1	1	
	W13-1	ADVISORY SPEED	958+45	LT	24" X 18"	-	-	-	1	-	WITH W1-2R; 40 MPH
20	R2-1	SPEED LIMIT 55	960+50	RT	24" X 30"	-	1	5.00	-	-	
21	R2-1	SPEED LIMIT 45 MPH	960+50	LT	24" X 30"	-	1	5.00	-		
22	W1-7	TWO DIRECTION LARGE ARROW	961+51	LT	48" X 24"	-	-	8.00	-	-	
	R1-1	STOP	961+77	RT	30" X 30"	-	-	-	1	1	
23	R1-1	STOP	961+87	RT	30" X 30"	-	1	5.18	-	-	AKRON DRIVE
24	M1-5A	CTH ROUTE MARKER	961+91	RT	24" X 24"	-	1	4.00	-	-	
25	M6-4	TWO DIRECTION SMALL ARROW	961+91	RT	21" X 21"	-	-	3.06	-	-	WITH SIGN 24
26	W1-5R	RIGHT WINDING ROAD	964+00	RT	30" X 30"	-	1	6.25	-	-	
27	W13-1	ADVISORY SPEED 25 MPH	964+00	RT	18" X 18"	-	-	3.00	-	-	WITH SIGN 26
28	W1-5R	RIGHT WINDING ROAD	964+00	LT	30" X 30"	-	1	6.25	-	-	
29	W13-1	ADVISORY SPEED 25 MPH	964+00	LT	18" X 18"	-	-	3.00	-	-	WITH SIGN 28
	W1-3R	RIGHT REVERSE TURN	965+47	RT	30" X 30"	-	-	-	1	1	
	W13-1	ADVISORY SPEED	965+47	RT	24" X 18"	-	-	-	1	-	WITH W1-2R; 15 MPH
	W1-3R	RIGHT REVERSE TURN	965+49	LT	30" X 30"	-	-	-	1	1	
	W13-1	ADVISORY SPEED	965+49	LT	24" X 18"	-	-	-	1	-	WITH W1-2R; 15 MPH
30	R7-1D	NO PARKING ANY TIME	968+00	RT	18" X 24"	1	-	1.50	-	-	
31	W1-8	CHEVRON	968+87	LT	18" X 24"	1	-	3.00	-	-	
32	W1-8	CHEVRON	968+87	LT	18" X 24"	-	-	3.00	-	-	WITH SIGN 31
33	W1-8	CHEVRON	970+06	LT	18" X 24"	1	-	3.00	-	-	
34	W1-8	CHEVRON	970+06	LT	18" X 24"	-	-	3.00	-	-	WITH SIGN 33
	W1-8	CHEVRON	970+20	LT	18" X 24"	-	-	-	2	1	
	W1-6	ONE DIRECTIONAL LARGE ARROW	970+48	LT	48" X 24"	-	-	-	2	4	
	R7-1	NO PARKING ANY TIME	970+49	LT	12" X 18"	-	-	-	1	1	
					SUB TOTAL	**3.00**	**21.00**	**165.72**	**30.00**	**25.00**	

PERMANENT SIGNS CONTINUED

SIGN NUMBER	SIGN CODE	SIGN NAME	STA	LOC	SIZE	634.0612 POSTS WOOD 4X6-INCH X 12-FT EA	634.0616 POSTS WOOD 4X6-INCH X 16-FT EA	637.2210 SIGNS REFLECTIVE H TYPE II SF	638.2602 REMOVING SIGNS TYPE II EA	638.3000 REMOVING SMALL SIGN SUPPORTS EA	REMARKS
	W1-8	CHEVRON	970+71	LT	18" X 24"	-	-	-	2	1	
	W1-8	CHEVRON	971+16	LT	18" X 24"	-	-	-	2	1	
35	W1-8	CHEVRON	971+28	LT	18" X 24"	1	-	3.00	-	-	
36	W1-8	CHEVRON	971+28	LT	18" X 24"	-	-	3.00	-	-	WITH SIGN 35
	W1-8	CHEVRON	971+78	LT	18" X 24"	-	-	-	2	1	
	R7-1	NO PARKING ANY TIME	972+02	LT	18" X 24"	-	-	-	1	1	
	W1-8	CHEVRON	972+41	LT	18" X 24"	-	-	-	2	1	
37	W1-8	CHEVRON	972+50	LT	18" X 24"	1	-	3.00	-	-	
38	W1-8	CHEVRON	972+50	LT	18" X 24"	-	-	3.00	-	-	WITH SIGN 37
	W1-8	CHEVRON	973+12	LT	18" X 24"	-	-	-	2	1	
39	W1-8	CHEVRON	973+70	LT	18" X 24"	1	-	3.00	-	-	
40	W1-8	CHEVRON	973+70	LT	18" X 24"	-	-	3.00	-	-	WITH SIGN 39
41	R7-1D	NO PARKING ANY TIME	973+74	RT	18" X 24"	1	-	1.50	-	-	
	R7-1	NO PARKING ANY TIME	973+74	RT	18" X 24"	-	-	-	1	1	
	W1-8	CHEVRON	974+41	RT	18" X 24"	-	-	-	2	1	
42	W1-8	CHEVRON	974+41	RT	18" X 24"	1	-	3.00	-	-	
43	W1-8	CHEVRON	974+41	RT	18" X 24"	-	-	3.00	-	-	WITH SIGN 42
44	W1-8	CHEVRON	975+12	RT	18" X 24"	1	-	3.00	-	-	
45	W1-8	CHEVRON	975+12	RT	18" X 24"	-	-	3.00	-	-	WITH SIGN 44
	W1-8	CHEVRON	975+24	RT	18" X 24"	-	-	-	2	1	
	W1-8	CHEVRON	976+00	RT	18" X 24"	-	-	-	2	1	
46	W1-8	CHEVRON	976+00	RT	18" X 24"	1	-	3.00	-	-	
47	W1-8	CHEVRON	976+00	RT	18" X 24"	-	-	3.00	-	-	WITH SIGN 44
	R7-1	NO PARKING ANY TIME	978+45	RT	18" X 24"	-	-	-	1	1	
48	R7-1D	NO PARKING ANY TIME	978+45	RT	18" X 24"	1	-	1.50	-	-	
	W11-2	PEDESTRIAN CROSSING	983+41	RT	30" X 30"	-	-	-	1	1	
	W16-9P	AHEAD	983+41	RT	24" X 8"	-	-	-	1	-	WITH W11-2
49	W11-2	PEDESTRIAN CROSSING	985+00	RT	30" X 30"	-	1	6.25	-	-	
50	W16-9P	AHEAD	985+00	RT	24" X 8"	-	-	1.34	-	-	WITH SIGN 49
51	W11-2	PEDESTRIAN CROSSING	989+10	RT	30" X 30"	-	1	6.25	-	-	
52	WF16-7	DIAGONAL ARROW	989+10	RT	24" X 12"	-	-	2.00	-	-	WITH SIGN 51
	W1-2R	CURVE RIGHT	989+08	RT	30" X 30"	-	-	-	1	1	
	W13-1	ADVISORY SPEED	989+08	RT	24" X 18"	-	-	-	1	-	WITH W1-2R; 40 MPH
53	W11-2	PEDESTRIAN CROSSING	989+25	LT	30" X 30"	-	1	6.25	-	-	
54	WF16-7	DIAGONAL ARROW	989+25	LT	24" X 12"	-	-	2.00	-	-	WITH SIGN 53
	W1-3R	RIGHT REVERSE CURVE	990+57	LT	30" X 30"	-	-	-	1	1	
	W13-1	ADVISORY SPEED	990+57	LT	24" X 18"	-	-	-	1	-	WITH W1-2R; 15 MPH
55	W1-5R	RIGHT WINDING ROAD	990+57	RT	30" X 30"	-	1	6.25	-	-	
56	W13-1	ADVISORY SPEED 25 MPH	990+57	RT	18" X 18"	-	-	3.00	-	-	WITH SIGN 55
57	W1-5R	RIGHT WINDING ROAD	990+57	LT	30" X 30"	-	1	6.25	-	-	
58	W13-1	ADVISORY SPEED 25 MPH	990+57	LT	18" X 18"	-	-	3.00	-	-	WITH SIGN 57
59	W11-2	PEDESTRIAN CROSSING	993+00	LT	30" X 30"	-	1	6.25	-	-	
60	W16-9P	AHEAD	993+00	LT	24" X 8"	-	-	1.34	-	-	WITH SIGN 59
	W11-2	PEDESTRIAN CROSSING	994+80	LT	30" X 30"	-	-	-	1	1	
	W16-9P	AHEAD	994+80	LT	24" X 8"	-	-	-	1	-	WITH W11-2
61	R2-1	SPEED LIMIT 45 MPH	995+97	LT	24" X 30"	1	-	5.00	-	-	
	W1-2L	CURVE LEFT	998+00	LT	30" X 30"	-	-	-	1	1	
	W13-1	ADVISORY SPEED	998+00	LT	24" X 18"	-	-	-	1	-	WITH W1-2L; 25 MPH
62	M1-5A	CTH ROUTE MARKER	998+00	LT	24" X 24"	-	1	4.00	-	-	
63	M3-3	CARDINAL DIRECTION MARKER SOUTH	998+00	LT	24" X 12"	-	-	2.00	-	-	WITH SIGN 62
64	W3-5	REDUCE SPEED AHEAD TO 45 MPH	998+60	LT	36" X 36"	-	1	9.00	-	-	
	W14-3	NO PASSING ZONE	999+08	LT	48" X 36"	-	-	-	1	1	
						-	-	-	-	-	
	M1-5A	CTH ROUTE MARKER	999+08	LT	24" X 24"	-	-	-	1	1	
	I2-2	ADAMS COUNTY	999+08	LT	36" X 18"	-	-	-	1	-	
	R10-64	NO ENGINE BRAKING	999+08	LT	30" X 36"	-	-	-	1	-	WITH I2-2; ADAMS COUNTY
65	M1-5A	CTH ROUTE MARKER	999+08	LT	24" X 24"	-	1	4.00	-	-	
66	I2-2	ADAMS COUNTY	999+08	LT	36" X 18"	-	2	4.50	-	-	
67	R10-64	NO ENGINE BRAKING	999+08	LT	30" X 36"	-	-	7.50	-	-	WITH SIGN 66
					SUB TOTAL	**9.00**	**11.00**	**125.18**	**33.00**	**18.00**	
					TOTAL	**12.00**	**32.00**	**290.90**	**63.00**	**43.00**	

Note: Final locations to be determined by engineer in the field.

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W OR HE LINE
PROPERTY LINE (P.L.)
LOT, TIE & OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC) (W (TYPE))
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 — SIGN
OFF-PREMISE SIGN — SIGN

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE	■	□
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

HARRISON MONUMENT, FOUND
MONUMENT, FOUND 3/4"
REBAR FOUND 1" O.D.
IRON PIPE FOUND 1 5/16" O.D.
IRON BAR FOUND
2" O.D. IRON PIPE FOUND
3/4" x 24" REBAR SET (1.5 LBS/LF) TYPE 2 SET
PLE CORNER NOT SET (UNDER WATER)

OTHER NOTES:

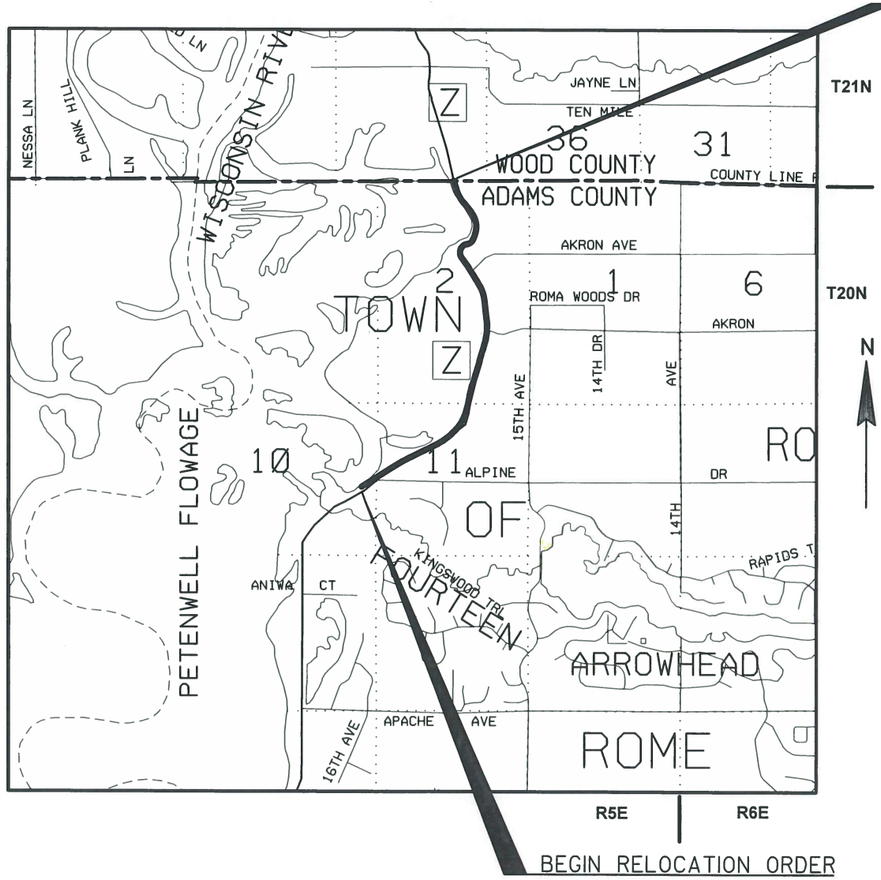
-PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.
-NO FIELD SURVEY OF RIGHT-OF-WAY MONUMENTS, PROPERTY MONUMENTS, OR GOVERNMENT CORNERS WAS CONDUCTED FOR THIS PLAT. ALL SURVEY RELATED INFORMATION IN REGARDS TO MONUMENTS FOUND AND ATTRIBUTING BEARINGS AND DISTANCES ARE FROM PREVIOUSLY RECORDED RIGHT-OF-WAY PROJECT NUMBER 6355-00-05 REVISED 2-08-2012.
-CAUTION, THIS PLAT IS FOR ILLUSTRATIVE PURPOSES ONLY. DEEDS MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES.
-PERMANENT LIMITED EASEMENT (PLE) MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4" X 24" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

R/W PROJECT NUMBER 6355-00-05	SHEET NUMBER	TOTAL SHEETS
CONSTRUCTION PROJECT NUMBER 6355-00-75	4.01	12

PLAT OF RIGHT OF WAY REQUIRED FOR

MONROE CENTER-WOOD COUNTY LINE
ALPINE DRIVE-WOOD COUNTY LINE

CTH Z — ADAMS COUNTY



END RELOCATION ORDER
STA 999+30.00
Y = 321824.552
X = 517534.094
29.12' WEST AND 7.32' NORTH OF THE NORTH 1/4 CORNER OF SECTION 2, T20N, R5E.

BEGIN RELOCATION ORDER
STA 865+00.00
Y = 311138.746
X = 514513.788
419.20' WEST AND 228.33' SOUTH OF THE EAST 1/4 CORNER OF SECTION 10, T20N, R5E.

LAYOUT
SCALE 0 — 1 MILE

TOTAL NET LENGTH OF CENTERLINE = 2.544 MILES

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 COUNTY COORDINATES, (ADAMS) COUNTY, NAD 83 (1991) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT OF WAY MONUMENTS ARE REBAR AND WERE 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—

ORIGINAL PLAT PREPARED BY

mi-TECH
5707 SCHOFIELD AVE.
WESTON, WISCONSIN
54476
PHONE: (715) 359-9400
FAX: (715) 355-4199
www.mi-tech.us

WISCONSIN — PRESTON A. LIPTACK — S-3063 — KRONENWETTER, WI — LAND SURVEYOR

DATE: 2-8-2018 — PRESTON LIPTACK, PLS

REVISION DATE
10/12/2017
01/09/2018
02/08/2018

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR ADAMS COUNTY, WISCONSIN.

DATE: 2/8/18 — Patrick Kolasa 54

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

4

Parcel Number	Sheet Number	Owner (S)	Interest Required	Total Acres	R/W Area Required or Existing	R/W Acres Required Fee	Total Acres Remaining	Highway Easement	T.L.E. Acres	P.L.E. Acres
132F	4.04, 4.05	Wisconsin River Power Co.	TLE	82.800	0.000	0.000	82.200	0.000	0.066	0.000
132G	4.12	Wisconsin River Power Co.	PLE	36.270	0.000	0.000	36.270	0.000	0.000	0.025
176	4.06	Russell L. Nixon & Marilyn Russo	TLE	2.976	0.000	0.000	2.976	0.000	0.018	0.000
177	4.06, 4.07	Delores Coenen & Joan M. Dupius	PLE	35.074	0.000	0.000	35.074	0.000	0.000	0.016
178	4.07, 4.08	Theodore Eckert Foundation	PLE & TLE	37.727	0.000	0.000	37.727	0.000	0.148	0.062
179	4.08	Kenneth E. Koepp & Linda A. Koepp	TLE	1.234	0.000	0.000	1.234	0.000	0.033	0.000
180	4.08	Mark Tuttle	TLE	26.578	0.000	0.000	26.578	0.000	0.014	0.000
181	4.09	Anthony E. Reimer & Jamie M. Reimer	PLE & TLE	2.309	0.000	0.000	2.309	0.000	0.051	0.004
182	4.09	Cynthia D. Loken	PLE & TLE	36.944	0.000	0.000	36.944	0.000	0.284	0.003
183	4.10	Cynthia D. Loken (Tuttle)	TLE	15.822	0.000	0.000	15.822	0.000	0.068	0.000
184	4.10	Georgene M. Srsen & Walter A. Orlandoni	TLE	10.593	0.000	0.000	10.593	0.000	0.051	0.000
185	4.10	Stanley M. Lyons	TLE	7.710	0.000	0.000	7.710	0.000	0.127	0.000
189	4.11, 4.12	Debra R. Cole & Kevin D. Cole	PLE & TLE	88.160	0.000	0.000	88.160	0.000	0.239	0.458
192	4.12	Jon A. & Patricia A. Sonnenberg	PLE & TLE	26.100	0.000	0.000	26.100	0.000	0.055	0.003
220	4.05	Mark C. Hagedorn & Jaqueline A. Hagedorn	TLE	4.924	0.000	0.000	4.924	0.000	0.038	0.000
221	4.05	Christian W. Voth & Natalie M. Voth	TLE	5.088	0.000	0.000	5.088	0.000	0.023	0.000
222	4.04	Jeffrey A. & Christi L. Weingart	TLE	1.118	0.000	0.000	1.118	0.000	0.063	0.000
250	4.04, 4.06, 4.09	Adams-Columbia Electric Cooperative	RELEASE OF RIGHTS	-	-	-	-	-	-	-
253	4.05, 4.10	American Transmission Company	RELEASE OF RIGHTS	-	-	-	-	-	-	-
254	4.04, 4.11	Solarus	RELEASE OF RIGHTS	-	-	-	-	-	-	-
TOTAL ACREAGE ACQUIRED FOR ENTIRE JOB = 1.988					0.000	0.000	-	0.000	1.278	0.571

4

REVISION DATE
10/12/2017
01/09/2018 N.C.
02/08/2018

DATE 9/27/2017

GRID FACTOR _____

SCALE: FEET
NA

HWY: CTH Z
COUNTY: ADAMS

R/W PROJECT NUMBER 6355-00-05
CONSTRUCTION PROJECT NUMBER 6355-00-75

PLAT SHEET 4.02
PS&E SHEET 55

E

FILE NAME : CTH Z RIGHT OF WAY PLAT 2016.DWG
LAYOUT NAME - ****

PLOT DATE : 2/8/2018 10:33 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 75

TOWN
T20N, R5E
SECTION 10
PETENWELL FLOWAGE
ADAMS COUNTY
WOOD COUNTY
ALPINE DRIVE
NW-SW
SW-NW
SE-NE
NE-SE
SE-NW
NE-NW
NW-NE
SW-SE
NW-SE
CTH Z
AKRON DRIVE
AKRON AVENUE
GOVERNMENT LOT 15
GOVERNMENT LOT 16
GOVERNMENT LOT 10
GOVERNMENT LOT 7
GOVERNMENT LOT 3
GOVERNMENT LOT 2
T20N, R5E
SECTION 11
T20N, R5E
SECTION 2
OF
ROME
4
4
132F
222
254
250
253
220
221
176
177
178
179
180
181
182
183
184
185
189
192
132G

REVISION DATE			
10/12/2017 N.C.			
01/09/2018			
02/08/2018			

DATE 9/27/2017	SCALE, FEET	HWY: CTH Z	R/W PROJECT NUMBER 6355-00-05	PLAT SHEET 4.03	
GRID FACTOR _____	NA	COUNTY: ADAMS	CONSTRUCTION PROJECT NUMBER 6355-00-75	PS&E SHEET 56	E

FILE NAME : CTH Z RIGHT OF WAY PLAT 2016.DWG
LAYOUT NAME - ****

PLOT DATE : 2/8/2018 10:33 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 75

STATION & OFFSET TABLE		
POINT #	STATION	OFFSET
ERW5318	869+58.46	62.47' RT
ERW5319	869+72.65	40.00' RT
ERW5321	870+24.08	40.00' LT
ERW5322	872+37.06	80.45' RT
ERW5323	872+41.68	95.50' RT
ERW5324	872+66.25	40.00' RT
ERW5327	873+48.59	237.55' RT
ERW5331	878+99.23	40.00' RT
ERW5332	878+98.90	40.00' LT
ERW5464	870+20.09	33.27' LT
TLE6004	868+60.85	40.00' LT
TLE6005	868+48.51	48.00' LT
TLE6006	875+02.36	48.00' LT
TLE6007	875+07.66	40.00' LT

COURSE TABLE		
PT*-PT*	BEARING	DISTANCE
6001-6002	N57°16'36"E	417.07'
6005-6006	N57°16'36"E	653.84'
6008-6009	S60°06'43"W	588.43'

NOT RECOVERED
Y=314003.68
X=517604.81
Sta 911+50.43
566.01' LT

HARRISON MONUMENT
Y=311367.08
X=514932.99
Sta 869+76.10
34.52' RT

TOWN

T 20 N R 5 E 10 11

T 20 N R 5 E 2 11

N 89°46'12"W 2680.50'

S 00°11'41"E 1002.77' TO REF. LINE

S 00°11'41"E 2648.98'

4

4

1/4 LINE

WISCONSIN RIVER POWER CO.

WISCONSIN RIVER POWER CO.

132F

SE-NE

SECTION LINE

PETENWELL FLOWAGE

BEGIN RELOCATION ORDER
PROJECT ID 6355-00-05
STA 865+00.00
Y = 311138.746
X = 514513.788

7' HE

HE R/W

73'

N 57°16'36" E 1398.90'

865+00

870+00

875+00

880+00

80'

R/W

PL

TLE6005

TLE6004

ERW5321

TLE FOR SLOPES

ERW5464

STA 869+22.56

STA 869+98.50

BP: 160+00.00

STA 871+75.13 RT
STA 160+00.00

TLE FOR SLOPES

TLE6006

TLE6007

ERW5332

PC: 878+98.90

ERW5324

ERW5322

PI: 161+05.50

ERW5323

EP: 161+50.00

161+00

ERW5331

ERW5318

ERW5319

ERW5327

66'

222

LOT 4, CSM 4708
VOL.23 PG. 125-127
JEFFREY A. WEINGART &
CHRISTI L. WEINGART

LOT 3, CSM 4708
VOL. 23, PG. 125-127
PHILLIP D. &
COLLEEN K. KAUPLA

LOT 2, CSM 4708
VOL. 23, PG. 126
BURGER CALDWELL
REAL ESTATE

FIRE NO. 245

FIRE NO. 239

FIRE NO. 235

FIRE NO. 254

CTH Z

SOLARUS

GUY

OH

FO

GAS

ADAMS COLUMBIA ELECTRIC COOPERATIVE

250
ADAMS-COLUMBIA ELECTRIC COOPERATIVE

254
SOLARUS

LOT 3, CSM 4717
VOL.23 PG.145
DOLEZEL HOLDINGS LLC.

LOT 1, CSM 1349
VOL.5 PG.417
JOHN K. AND JEANMARIE A. ENDRIZZI

LOT 1, CSM 4728
VOL. 22, PG. 167
VIVIAN M. JURINAK

LOT 2, CSM 4728
VOL. 22, PG. 167
STEPHEN D. &
MELINDA J. HERTEL

CURVE 6008-6009
DELTA 05°39'50"
R =5955.00'
T =294.58'
L =588.67'
LCB =N60°06'43"E
LCH =588.43'

NE-SE

NW-SW

SW-NW

ROME

ALPINE DRIVE

MATCHLINE STA 880+00

REVISION DATE			
10/12/2017 N.C.			
01/09/2018 N.C.			
02/08/2018			

DATE 9/27/2017

GRID FACTOR _____

SCALE. FEET 0 50 100

HWY: CTH Z

COUNTY: ADAMS

R/W PROJECT NUMBER 6355-00-05

CONSTRUCTION PROJECT NUMBER 6355-00-75

PLAT SHEET 4.04

PS&E SHEET 57

E

FILE NAME : CTH Z RIGHT OF WAY PLAT 2016.DWG
LAYOUT NAME - ****

PLOT DATE : 2/8/2018 10:33 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 75

STATION & OFFSET TABLE		
POINT #	STATION	OFFSET
ERW5334	883+07.43	32.42' LT
ERW5336	884+92.35	40.00' RT
EHE5337	884+92.35	40.00' LT
ERW5339	888+96.93	32.42' RT
TLE6003	883+80.02	40.00' RT
TLE6008	883+77.75	45.00' RT
TLE6009	884+92.35	45.00' RT
TLE6010	890+00.00	45.00' RT
TLE6011	890+00.00	40.00' RT

COURSE TABLE		
PT#-PT#	BEARING	DISTANCE
6008-6009	S60°06'43"W	588.43'
6009-6010	N62°56'38"E	507.65'

CURVE NO. 11 DATA
PI STA = 881+95.87
X = 515940.507
Y = 312055.501
DELTA = 05°40'01"
D = 00°57'18"
T = 296.97
L = 593.45
R = 6000.00
SE = 2.60%
LCB = N60°06'37"E
LC = 593.21'

CURVE 6008-6009
DELTA 01°05'40"
R =5955.00'
T =56.88'
L =113.75'
LCB =N62°23'48"E
LCH =113.75'

TOWN

WISCONSIN RIVER POWER CO.

SW-NW

NE-NW

SE-NW

1/16 LINE

1/16 LINE

LOT 1, CSM 4708
VOL. 23, PG. 126
BURGER CALDWELL
REAL ESTATE

ADAMS COLUMBIA
ELECTRIC COOPERATIVE

7' HE

HE
RZW

PT: 884+92.35

PL

PL

ERW5334

EHE5337

885+00

STA 885+78.29

TLE6003

ERW5336

TLE6009

TLE6008

SOLARUS

80'

880+00

MATCHLINE STA 880+00

CTH Z

OF

73'

ERW5339

66'

890+00

N 62°56'38" E 1100.19'

895+00

MATCHLINE STA 895+00

RZW
HE

TLE6011

TLE6010

7' HE

TLE FOR
SLOPES

253
AMERICAN
TRANSMISSION
COMPANY

220
LOT 3, CSM 4728
VOL. 22, PG. 167
HAGEDORN MARK C. &
JAQUELINE A.

221
LOT 4, CSM 4728
VOL. 22, PG. 167
CHRISTIAN W. &
NATALIE M. VOTH

132F
WISCONSIN RIVER POWER CO.

LOT 2, CSM 4728
VOL. 22, PG. 167
STEPHEN D. &
MELINDA J. HERTEL

ROME

OH

FO

4

4

REVISION DATE			
10/12/2017 N.C.			
01/09/2018 N.C.			
02/08/2018			

DATE 9/27/2017

GRID FACTOR _____

SCALE, FEET
0 50 100

HWY: CTH Z

COUNTY: ADAMS

R/W PROJECT NUMBER 6355-00-05

CONSTRUCTION PROJECT NUMBER 6355-00-75

PLAT SHEET 4.05

PS&E SHEET 58

E

FILE NAME : CTH Z RIGHT OF WAY PLAT 2016.DWG
LAYOUT NAME - ****

PLOT DATE : 2/8/2018 10:33 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 75

STATION & OFFSET TABLE		
POINT #	STATION	OFFSET
EHE5341	895+92.54	40.00' LT
EHE5342	895+92.54	40.00' RT
EHE5343	899+71.75	40.00' RT
ERW5344	900+84.66	40.00' RT
ERW5346	901+67.28	40.00' RT
EHE5347	899+71.75	40.00' LT
ERW5349	901+55.06	40.00' LT
ERW5350	901+67.28	40.00' LT
TLE6012	901+50.00	40.00' RT
TLE6013	901+50.00	55.00' RT
TLE6014	902+00.00	55.00' RT
TLE6015	902+00.00	40.00' RT
PLE6016	903+05.00	40.00' RT
PLE6017	903+05.00	60.00' RT
PLE6018	903+25.00	60.00' RT
PLE6019	903+25.00	40.00' RT
PLE6020	903+05.00	40.00' LT
PLE6021	903+05.00	55.00' LT
PLE6022	903+25.00	55.00' LT
PLE6023	903+25.00	40.00' LT
TLE6130	901+67.28	40.00' RT

COURSE TABLE		
PT#-PT#	BEARING	DISTANCE
6013-6130	N48°27'32"E	17.27'
6130-6014	N47°53'57"E	33.80'
6016-6017	S46°15'08"E	20.00'
6017-6018	N43°24'21"E	20.72'
6018-6019	N46°56'11"W	20.00'
6020-6021	N46°15'08"W	15.00'
6021-6022	N43°24'21"E	19.34'
6022-6023	S46°56'11"E	15.00'

NOT RECOVERED
Y=314003.68
X=517604.81
Sta 911+50.43
566.01' LT

HARRISON MONUMENT
Y=311367.08
X=514932.99
Sta 869+76.10
34.52' RT

T 20 N R 5 E 10 11

T 20 N R 5 E 2 11

N 89°46'12"W 2680.50'

S 00°11'41"E 1002.77' TO REF. LINE

S 00°11'41"E 2648.98'

4

TOWN

CURVE NO. 12 DATA
PI STA = 897+83.16
X = 517354.521
Y = 312777.725
DELTA = 14°29'06"
D = 03°49'11"
T = 190.62
L = 379.21
R = 1500.00
SE = 5.60%
LCB = N55°42'05"E
LC = 378.21'

WISCONSIN RIVER POWER CO.

CURVE NO. 13 DATA
PI STA =907+54.81
X = 518083.303
Y = 313423.428
DELTA = 38°39'30"
D = 03°25'14"
T = 587.54
L = 1130.15
R = 1675.00
SE =5.30%
LCB = N29°07'47"E
LC = 1108.84'

177
DELORES COENEN
AND JOAN M. DUPUIS

MATCHLINE STA 895+00

MATCHLINE STA 910+00

EHE5341
PC: 895+92.54
HE
R/W
895+00
STA 895+72.94
EHE5342
EHE5347
7' HE
PT: 899+71.75
66'
900+00
STA 901+19.86
EHE5343
N48°27'32" E
195.52'
7' HE
ERW5344
ERW5350
ERW5349
PC: 901+67.28
ERW5346
TLE6012
TLE6015
PLE6016
TLE6013
TLE6014
TLE6130
TLE FOR SLOPES
MOUND
FIRE NO. 214
BLDG
45.6'
PLE6021
PLE6022
PLE6023
PLE6020
PLE6019
PLE6017
PLE6018
PLE FOR DRAINAGE
80'
905+00
910+00
CTH Z
OH
UMP
24" CMP
SOLARUS
ADAMS COLUMBIA ELECTRIC COOPERATIVE
PL
1/4 LINE
1/16 LINE
SE-NW
NE-NW
NW-NE
Z
OF

LOT 1, CSM 1766
VOL.7 PG.17
RUSSELL L. NIXON &
MARILYN RUSSO

CURVE 6021-6022
DELTA 00°41'03"
R =1620.00'
T =9.67'
L =19.34'
LCB =N43°24'21"E
LCH =19.34'

176
LOT 1, CSM 1766
VOL.7 PG.17
RUSSELL L. NIXON &
MARILYN RUSSO

CURVE 6013-6014
DELTA 01°07'10"
R =1730.00'
T =16.90'
L =33.80'
LCB =N47°53'57"E
LCH =33.80'

250
ADAMS-COLUMBIA
ELECTRIC COOPERATIVE

CURVE 6017-6018
DELTA 00°41'03"
R =1735.00'
T =10.36'
L =20.72'
LCB =N43°24'21"E
LCH =20.72'

177
DELORES COENEN &
JOAN M. DUPUIS

WISCONSIN RIVER POWER CO.

ROME

REVISION DATE			
10/12/2017 N.C.			
01/09/2018 N.C.			
02/08/2018 N.C.			

DATE 9/27/2017
GRID FACTOR _____
SCALE, FEET 0 50 100
HWY: CTH Z
COUNTY: ADAMS
R/W PROJECT NUMBER 6355-00-05
CONSTRUCTION PROJECT NUMBER 6355-00-75
PLAT SHEET 4.06
PS&E SHEET 59
E

FILE NAME : CTH Z RIGHT OF WAY PLAT 2016.DWG
LAYOUT NAME - ****
PLOT DATE : 2/8/2018 10:33 AM
PLOT BY : ANDREW LEE
PLOT NAME :
PLOT SCALE : ***********

COURSE TABLE		
PT*-PT*	BEARING	DISTANCE
6025-6026	N09°48'02"E	27.29'
6026-6027	N12°50'17"E	337.67'
6027-6028	N15°51'45"E	129.59'
6030-6031	N74°08'15"W	30.00'
6031-6032	N15°51'45"E	45.00'
6032-6033	S74°08'15"E	30.00'
6034-6035	S74°08'15"E	30.00'
6035-6036	N15°51'45"E	45.00'
6036-6037	N74°08'15"W	30.00'
6039-6040	N15°51'45"E	150.00'
6043-6044	N15°51'45"E	150.00'

STATION & OFFSET TABLE		
POINT #	STATION	OFFSET
ERW5351	912+97.43	40.00' RT
ERW5352	913+04.08	40.00' RT
ERW5353	912+90.45	40.00' LT
ERW5354	912+97.43	40.00' LT
ERW5355	916+76.55	40.00' LT
ERW5356	916+76.55	40.00' RT
ERW5357	920+20.41	40.00' RT
ERW5358	920+20.41	40.00' LT
TLE6024	916+50.00	40.00' RT
TLE6025	916+50.00	50.00' RT
TLE6026	916+76.55	50.00' RT
TLE6027	920+20.41	50.00' RT
TLE6028	921+50.00	50.00' RT
TLE6029	921+50.00	40.00' RT
PLE6030	922+40.00	40.00' LT
PLE6031	922+40.00	70.00' LT
PLE6032	922+85.00	70.00' LT
PLE6033	922+85.00	40.00' LT
PLE6034	923+35.00	40.00' RT
PLE6035	923+35.00	70.00' RT
PLE6036	923+80.00	70.00' RT
PLE6037	923+80.00	40.00' RT
TLE6038	924+50.00	40.00' RT
TLE6039	924+50.00	45.00' RT
TLE6042	924+50.00	40.00' LT
TLE6043	924+50.00	45.00' LT

1/4 LINE

S 89°43'13" E 578.65' TO REFERENCE LINE

SECTION LINE

HARRISON MONUMENT
Y=311367.08
X=514932.99
Sta 869+76.10
34.52' RT

NOT RECOVERED
Y=314003.68
X=517604.81
Sta 911+50.43
566.01' LT

N 89°46'12"W 2680.50'

S 00°11'41"E 1002.77' TO REF. LINE

S 00°11'41"E 2648.98'

TOWN

SW-SE

NW-NE

PL

MATCHLINE STA 910+00

MATCHLINE STA 925+00

CURVE NO. 14 DATA
PI STA = 918+48.64
X = 518277.138
Y = 314545.561
DELTA = 06°03'43"
D = 01°45'47"
T = 172.09
L = 343.85
R = 3250.00
SE = 3.70%
LCB = N12°49'53"E
LC = 343.69'

177
DELORES COENEN &
JOAN M. DUPUIS

178
THEODORE ECKERT
FOUNDATION

PT: 912+97.43

PC: 916+76.55

PT: 920+20.41

STA 912+97.33

N 09°48'02" E 379.13'

915+00

920+00

N 15°51'45"E 880.40'

925+00

R/W

80'

CTH Z

ADAMS COLUMBIA ELECTRIC COOPERATIVE ELECTRIC BOX WITH METER

ADAMS COLUMBIA ELECTRIC COOPERATIVE

SOLARUS

CHESTER CREEK

PLE FOR DRAINAGE

TLE FOR SLOPES

TLE FOR SLOPES

PLE FOR DRAINAGE

ERW5351 ERW5352 ERW5353 ERW5354 ERW5355 ERW5356 ERW5357 ERW5358

TLE6024 TLE6025 TLE6026 TLE6027 TLE6028 TLE6029 TLE6038 TLE6039 TLE6042 TLE6043

PLE6030 PLE6031 PLE6032 PLE6033 PLE6034 PLE6035 PLE6036 PLE6037

IE=926.43

57.8'

BLDG

BLDG

FIRE NO. 192

BLDG

OF

254
SOLARUS

CURVE 6026-6027
DELTA 06°02'55"
R =3200.00'
T =169.07'
L =337.83'
LCB =N12°50'17"E
LCH =337.67'

ROME

REVISION DATE			
10/12/2017 N.C.			
01/09/2018 N.C.			
02/08/2018 N.C.			

DATE 9/27/2017

GRID FACTOR _____

SCALE, FEET 0 50 100

HWY: CTH Z

COUNTY: ADAMS

R/W PROJECT NUMBER 6355-00-05

CONSTRUCTION PROJECT NUMBER 6355-00-75

PLAT SHEET 4.07

PS&E SHEET 60

E

FILE NAME : CTH Z RIGHT OF WAY PLAT 2016.DWG
LAYOUT NAME - ****

PLOT DATE : 2/8/2018 10:33 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 75

STATION & OFFSET TABLE		
POINT #	STATION	OFFSET
ERW5359	929+00.80	40.00' LT
ERW5360	929+00.80	40.00' RT
ERW5361	932+90.66	40.00' RT
ERW5362	932+90.66	40.00' LT
ERW5363	937+12.15	40.00' LT
ERW5364	937+12.15	40.00' RT
ERW5365	938+60.42	40.00' RT
ERW5366	939+11.15	94.61' RT
TLE6040	926+00.00	45.00' RT
TLE6041	926+00.00	40.00' RT
TLE6044	926+00.00	45.00' LT
TLE6045	926+00.00	40.00' LT
TLE6046	926+83.09	40.00' LT
TLE6047	926+84.48	45.00' LT
TLE6048	929+00.80	45.00' LT
TLE6049	929+74.87	45.00' LT
TLE6050	929+73.45	40.00' LT
TLE6052	939+00.00	40.00' LT
TLE6053	939+00.00	48.00' LT

COURSE TABLE		
PT*-PT*	BEARING	DISTANCE
6039-6040	N15°51'45"E	150.00'
6043-6044	N15°51'45"E	150.00'
6047-6048	N15°51'45"E	216.33'
6048-6049	N15°43'16"E	73.84'
6053-6054	N02°03'02"E	197.52'

4

4

TOWN

SW-SE

NW-SE

NE-SE

1/16 LINE

PL

GOVT LINE

MATCHLINE STA 925+00

MATCHLINE STA 939+81.28 GOVT LINE

178
THEODORE ECKERT FOUNDATION

179
KENNETH E. KOEPP & LINDA A. KOEPP

180
MARK J. TUTTLE

MARK TUTTLE

THEODORE ECKERT FOUNDATION 178

BLDG
FIRE NO. 181

CURVE 6048-6049
DELTA 00°16'58"
R =14955.00'
T =36.92'
L =73.84'
LCB =N15°43'16"E
LCH =73.84'

CURVE 6053-6054
DELTA 08°42'02"
R =1302.00'
T =99.05'
L =197.71'
LCB =N02°03'02"E
LCH =197.52'

CURVE NO. 16 DATA
PI STA = 939+72.19
X = 518835.667
Y = 316594.512
DELTA = 21°48'19"
D = 04°14'39"
T = 260.03
L = 513.77
R = 1350.00
SE = 5.80%
LCB = N03°28'15"E
LC = 510.68'

CURVE NO. 15 DATA
PI STA = 930+95.74
X = 518618.093
Y = 315745.480
DELTA = 01°29'21"
D = 00°22'55"
T = 194.93
L = 389.84
R = 15000.00
SE = NORMAL CROWN
LCB = N15°07'05"E
LC = 389.84'

PC: 929+00.80
PT: 932+90.66
PC: 937+12.15
PC: 170+66.17
PT: 171+33.45
EP: 171+83.45
BP: 170+00.00
STA 939+41.08
STA 170+00.00
77.5'
80'
66'
171+00

930+00
935+00
N 14°22'24" E
421.50'

CTH Z

CHESTER CREEK

AKRON DRIVE

SOLARUS

TLE FOR SLOPES

TLE6040 TLE6041 TLE6044 TLE6045 TLE6046 TLE6047 TLE6048 TLE6049 TLE6050 TLE6052 TLE6053

ERW5359 ERW5360 ERW5361 ERW5362 ERW5363 ERW5364 ERW5365 ERW5366

R/W

FO

T

OF

ROME

REVISION DATE			
10/12/2017 N.C.			
01/09/2018 N.C.			
02/08/2018 N.C.			

DATE 9/27/2017

GRID FACTOR _____

SCALE, FEET 0 50 100

HWY: CTH Z

COUNTY: ADAMS

R/W PROJECT NUMBER 6355-00-05

CONSTRUCTION PROJECT NUMBER 6355-00-75

PLAT SHEET 4.08

PS&E SHEET 61

E

FILE NAME : CTH Z RIGHT OF WAY PLAT 2016.DWG
LAYOUT NAME - ****

PLOT DATE : 2/8/2018 10:33 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 75

STATION & OFFSET TABLE		
POINT #	STATION	OFFSET
ERW5367	939+83.79	87.88' RT
ERW5368	940+51.97	40.21' RT
ERW5370	942+25.93	40.00' RT
ERW5371	942+25.93	40.00' LT
ERW5374	950+60.78	40.00' RT
ERW5375	950+60.78	40.00' LT
ERW5376	952+21.27	40.00' RT
PLE6054	941+05.00	40.00' LT
PLE6055	941+05.00	50.00' LT
PLE6056	941+20.00	50.00' LT
PLE6057	941+20.00	40.00' LT
PLE6058	941+05.00	40.00' RT
PLE6059	941+05.00	50.00' RT
PLE6060	941+20.00	50.00' RT
PLE6061	941+20.00	40.00' RT
TLE6064	942+25.93	48.00' RT
TLE6065	947+00.00	48.00' RT
TLE6066	947+00.00	40.00' RT
TLE6067	942+25.93	50.00' LT
TLE6068	950+60.78	50.00' LT

COURSE TABLE		
PT*-PT*	BEARING	DISTANCE
6053-6054	N02°03'02"E	197.52'
6054-6055	S87°42'01"W	8.00'
6055-6056	N02°37'05"W	14.47'
6056-6057	N87°03'49"E	8.00'
6058-6059	N87°42'01"E	10.00'
6059-6060	N02°37'05"W	15.56'
6060-6061	S87°03'49"W	10.00'
6064-6065	N07°25'55"W	474.08'
6056-6067	N05°11'03"W	102.14'
6067-6068	N07°25'55"W	834.85'
6068-6069	N18°57'53"W	520.62'

CURVE 6055-6056
DELTA 00°38'12"
R =1302.00'
T =7.23'
L =14.47'
LCB =N02°37'05"E
LCH =14.47'

CURVE 6053-6054
DELTA 08°42'02"
R =1302.00'
T =99.05'
L =197.71'
LCB =N02°03'02"E
LCH =197.52'

CURVE 6056-6067
DELTA 04°29'45"
R =1302.00'
T =51.11'
L =102.16'
LCB =N05°11'03"W
LCH =102.14'

CURVE 6068-6069
DELTA 23°03'04"
R =1302.00'
T =265.67'
L =524.15'
LCB =N18°57'54"E
LCH =520.62'

CURVE NO. 17 DATA
PI STA = 953+36.24
X = 518658.414
Y = 317953.351
DELTA = 23°03'57"
D = 04°14'39"
T = 275.47
L = 543.47
R = 1350.00
SE = 5.90%
LCB = N18°57'54"W
LC = 539.81'

TOWN
ROME
GOVERNMENT LOT 15
GOVERNMENT LOT 16
OF
CTH Z
GOV'T LINE
MATCHLINE STA 939+81.28 GOV'T LINE
MATCHLINE STA 953+29.10 GOV'T LINE
N 89°56'07"E 1085.72' TO REF LINE
N 89°56'07"E 265.74' TO REF LINE
N 89°56'07"E 1351.46'
PL
R/W
80'
40.7'
PC: 950+60.78
PT: 942+25.93
STA 939+81.28
940+00
945+00
950+00
N 07°25'55" W 834.85'
182
LOT 15
CYNTHIA D. LOKEN
181
LOT 1, CSM 3119
VOL. 12, PG. 201
ANTHONY E. REIMER
& JAMIE M. REIMER
250
ADAMS-COLUMBIA
ELECTRIC COOPERATIVE
CYNTHIA D. LOKEN
ADAMS COLUMBIA ELECTRIC COOPERATIVE
PLE FOR DRAINAGE
PLE FOR DRAINAGE
TLE FOR SLOPES
TLE FOR SLOPES
FIRE NO. 162
BLDG
MOUND
SOLAR
OH
FO
PLE6054
PLE6055
PLE6056
PLE6057
PLE6058
PLE6059
PLE6060
PLE6061
TLE6064
TLE6065
TLE6066
TLE6067
TLE6068
ERW5367
ERW5368
ERW5370
ERW5371
ERW5374
ERW5375
ERW5376
NOT RECOVERED
Y=317939.86
X=517547.49
NOT RECOVERED
Y=317941.39
X=518898.95
Sta 952+57.15
253.91' RT
T 20 N R 5 E GL 10 SW
T 20 N R 5 E GL 10 SE
4
4

REVISION DATE 10/12/2017 N.C. 01/09/2018 N.C. 02/08/2018 N.C.	DATE 9/27/2017 GRID FACTOR _____	SCALE. FEET 0 50 100	HWY: CTH Z COUNTY: ADAMS	R/W PROJECT NUMBER 6355-00-05 CONSTRUCTION PROJECT NUMBER 6355-00-75	PLAT SHEET 4.09 PS&E SHEET 62 E

FILE NAME : CTH Z RIGHT OF WAY PLAT 2016.DWG
LAYOUT NAME - ****
PLOT DATE : 2/8/2018 10:33 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 75

STATION & OFFSET TABLE		
POINT *	STATION	OFFSET
ERW5379	955+00.05	40.00' RT
ERW5381	956+04.25	40.00' LT
ERW5382	956+04.25	40.00' RT
ERW5385	958+01.64	40.00' LT
ERW5387	958+01.64	40.00' RT
ERW5388	960+78.63	40.00' RT
ERW5389	961+27.05	82.12' RT
ERW5392	961+92.21	80.80' RT
ERW5393	962+29.09	40.00' RT
ERW5394	963+21.40	40.00' LT
ERW5395	963+21.40	40.00' LT
ERW5401	967+64.82	40.00' LT
ERW5402	967+64.82	40.00' RT
TLE6069	956+04.25	48.00' LT
TLE6070	958+01.64	48.00' LT
TLE6071	960+00.00	48.00' LT
TLE6072	960+00.00	40.00' LT
TLE6073	966+00.00	40.00' RT
TLE6074	966+00.00	60.00' RT
TLE6075	967+64.82	60.00' RT

COURSE TABLE		
PT*-PT*	BEARING	DISTANCE
6068-6069	N18°57'53"W	520.62'
6069-6070	N30°29'52"W	197.39'
6070-6071	N31°36'43"W	196.49'
6074-6075	N36°20'13"W	164.82'
6075-6076	N13°52'45"W	183.36'

NOT RECOVERED
Y=317939.86
X=517547.49

SW COR. SEC. 10 T 20 N R 5 E

N 89°56'07"E 1351.46'

N 89°56'07"E 1085.72' TO REF LINE

NOT RECOVERED
Y=317941.39
X=518898.95
Sta 952+57.15
253.91' RT

SE COR. SEC. 10 T 20 N R 5 E

TOWN

GOV'T LINE

MATCHLINE STA 953+29.10 GOV'T LINE

N 89°56'07"E 255.74'

N 89°56'07"E 1085.72' TO REF LINE

CURVE 6068-6069
DELTA 23°03'04"
R =1302.00'
T =265.67'
L =524.15'
LCB =N18°57'54"E
LCH =520.62'

253
AMERICAN TRANSMISSION COMPANY

183
LOT 2, CSM 3734
VOL. 16, PG. 277
CYNTHIA D. LOKEN (TUTTLE)

PC: 958+01.64

PT: 956+04.25

TLE FOR SLOPES

FIRE NO. 135

TLE6069 TLE6070 TLE6071 TLE6072

ERW5379 ERW5381 ERW5382 ERW5385 ERW5387 ERW5388 ERW5389 ERW5392 ERW5393 ERW5394 ERW5395 ERW5401 ERW5402

R/W

955+00

960+00

965+00

N 30°29'52" W 197.39'

N 36°20'13" W 443.42'

80'

CURVE 6070-6071
DELTA 02°13'43"
R =5052.00'
T =98.26'
L =196.50'
LCB =N31°36'43"W
LCH =196.49'

STA 961+50.93
STA 180+00.00

BP: 180+00.00

181+00

EP: 181+60.57

PT: 963+21.40

CURVE NO. 18 DATA
PI STA = 960+61.74
X = 518286.433
Y = 318584.906
DELTA = 05°50'21"
D = 01°07'24"
R = 5100.00
T = 260.11
L = 519.77
SE = 3.00%
LCB = N33°25'03"W
LC = 519.54'

184
LOT 1, CSM 3734
VOL. 16 PG. 277
GEORGENE M. SRSEN &
WALTER A. ORLANDONI

LOT 3, CSM 2682
VOL. 10, PG. 115
GAIL M. WASZAK
TRUST

OUTLOT 1
CSM 1127

LOT 2, CSM 2682
VOL. 10, PG. 115
ALEXANDRA DEMBICKI TRUST
MARIUSZ DEMBICKI TRUST

LOT 1, CSM 2682
VOL. 10, PG. 115
MARY M. HERMAN

PC: 967+64.82

FIRE NOS. 119,121&123

FIRE NOS. 125,127&129

15" CMP

C/L

GOVERNMENT LOT 10

CTH Z

OF

ROME

AKRON AVENUE

CURVE 6075-6076
DELTA 44°54'57"
R =240.00'
T =99.20'
L =188.14'
LCB =N13°52'45"E
LCH =183.36'

250
ADAMS-COLUMBIA ELECTRIC COOPERATIVE

185
STANLEY M. LYONS

DRIVEWAY ACCESS OFF AKRON AVE

66'

FIRE NO. 133

LOT 2, CSM 3734
VOL. 16, PG. 277
CYNTHIA D. LOKEN (TUTTLE)

MATCHLINE STA 969+09.74 GOV'T LINE

4

4

REVISION DATE			
10/12/2017 N.C.			
01/09/2018 N.C.			
02/08/2018 N.C.			

DATE 9/27/2017

GRID FACTOR _____

SCALE. FEET 0 50 100

HWY: CTH Z

COUNTY: ADAMS

R/W PROJECT NUMBER 6355-00-05

CONSTRUCTION PROJECT NUMBER 6355-00-75

PLAT SHEET 4.10

PS&E SHEET 63

E

FILE NAME : CTH Z RIGHT OF WAY PLAT 2016.DWG
LAYOUT NAME - ****

PLOT DATE : 2/8/2018 10:34 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 75

STATION & OFFSET TABLE		
POINT #	STATION	OFFSET
ERW5404	969+52.56	112.55' LT
ERW5405	969+79.04	142.89' LT
ERW5406	970+47.34	217.04' LT
ERW5407	970+00.00	40.00' RT
ERW5408	970+00.00	115.00' RT
ERW5409	973+00.00	115.00' RT
ERW5410	973+00.00	40.00' RT
ERW5411	973+69.24	40.00' RT
ERW5412	976+55.65	40.00' RT
ERW5413	978+21.16	40.00' RT
TLE6076	970+00.00	60.00' RT
TLE6077	972+40.00	114.00' LT
TLE6078	972+40.00	125.78' LT
TLE6079	972+55.00	100.29' LT
TLE6080	972+55.00	112.41' LT

STATION & OFFSET TABLE		
POINT #	STATION	OFFSET
PLE6081	973+35.97	50.00' LT
PLE6082	973+69.24	50.00' LT
PLE6083	976+55.65	50.00' LT
PLE6084	978+21.16	50.00' LT
PLE6085	984+25.00	50.00' LT
PLE6086	984+25.00	36.36' LT
PLE6087	975+45.00	40.00' RT
PLE6088	975+45.00	70.00' RT
PLE6089	975+75.00	70.00' RT
PLE6090	975+75.00	40.00' RT
TLE6091	976+00.00	40.00' RT
TLE6092	976+00.00	50.00' RT
TLE6093	976+55.65	50.00' RT
TLE6094	978+00.00	50.00' RT
TLE6095	978+00.00	70.00' RT
TLE6096	978+21.16	70.00' RT
TLE6097	979+50.00	70.00' RT
TLE6098	979+50.00	40.00' RT

COURSE TABLE		
PT*-PT*	BEARING	DISTANCE
6075-6076	N13°52'45"W	183.36'
6077-6078	N35°34'45"W	11.78'
6078-6079	N88°18'50"E	24.91'
6079-6080	S32°42'19"E	12.11'
6081-6082	N75°55'16"E	38.80'
6082-6083	N49°15'43"E	223.89'
6083-6084	N19°25'31"E	165.50'
6084-6085	N02°11'55"W	552.76'
6085-6086	N66°10'41"E	13.64'
6087-6088	S47°31'52"E	30.00'
6088-6089	N39°21'00"E	37.54'
6089-6090	N53°46'09"W	30.00'
6092-6093	N25°13'22"E	65.66'
6093-6094	N19°25'31"E	144.35'
6095-6096	N19°25'31"E	21.15'
6096-6097	N14°48'41"E	139.97'

REVISION DATE			
10/12/2017 N.C.			
01/09/2018			
02/08/2018 N.C.			

DATE 9/27/2017

GRID FACTOR _____

SCALE. FEET 0 50 100

HWY: CTH Z

COUNTY: ADAMS

R/W PROJECT NUMBER 6355-00-05

CONSTRUCTION PROJECT NUMBER 6355-00-75

PLAT SHEET 4.11

PS&E SHEET 64

E

FILE NAME : CTH Z RIGHT OF WAY PLAT 2016.DWG
LAYOUT NAME - ****

PLOT DATE : 2/8/2018 10:34 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 75

TOWN

PETENWELL FLOWAGE

GOVERNMENT LOT 2

GOVERNMENT LOT 3

GOV'T. LINE

MATCHLINE STA 984+94.31 GOV'T LINE

189

LOT 1, CSM 5886
VOL. 30, PG. 86-89
KEVIN D. COLE &
DEBRA R. COLE

CURVE 6110-6111
DELTA 07°22'31"
R =1400.00'
T =90.23'
L =180.22'
LCB =N37°22'29"W
LCH =180.09'

CURVE NO. 22 DATA
PI STA = 993+51.84
X = 517714.913
Y = 321267.533
DELTA = 23°04'41"
D = 04°14'39"
T = 275.62
L = 543.76
R = 1350.00
SE = 5.00%
LCB = N29°31'24"W
LC = 540.09'

CURVE 6114-6115
DELTA 02°58'13"
R =1400.00'
T =36.30'
L =72.58'
LCB =N19°28'11"W
LCH =72.57'

WISCONSIN RIVER POWER CO.

132G

END RELOCATION ORDER
PROJECT ID 6355-00-05
STA 999+30.00
Y = 321824.552
X = 517534.094

PLE FOR RIPRAP SLOPES

PLE FOR DRAINAGE & BEAM GUARD

PLE FOR DRAINAGE

PLE FOR RIPRAP SLOPES

TLE FOR SLOPES

PLE6108 PLE6109 PLE6110 PLE6111 PLE6112 PLE6113 PLE6114 PLE6115 PLE6116 PLE6117 PLE6118 PLE6119 PLE6120 PLE6121 PLE6103 PLE6104 PLE6105 PLE6106

TLE6100 TLE6101 TLE6102 TLE6107

ERW5415 ERW5418 ERW5421 ERW5422

PC: 990+76.22

PT: 986+65.72

PT: 996+19.99

999+22.36

STA 998+36.33

1000+

CTH Z

R/W

39.21'

40'

N41°03'44" W 410.50'

N 17°59'04" W 302.37'

27.9'

58.6'

66.1'

SOLARUS

FIRE NO. 108

FIRE NO. 110

BLDG

ADAMS COLUMBIA ELECTRIC COOPERATIVE

OH

FO

T

PL

192

LOT 2, CSM 4317
VOL.20 PG.242
JON A. & PATRICIA A.
SONNENBERG

189

LOT 1, CSM 5885
VOL. 30, PG. 83-85
KEVIN D. COLE &
DEBRA R. COLE

CURVE 6101-6102
DELTA 05°05'32"
R =1300.00'
T =57.81'
L =115.54'
LCB =N20°31'50"W
LCH =115.50'

LOT 2, CSM 2295
VOL.8 PG.354
JOSEPH J. & ROSE A. ROMANO

LOT 2, CSM 77
VOL. 1, PG. 77
ROBERT R. TUTTLE (TRUST)

ROME

ADAMS COUNTY
WOOD COUNTY
SECTION LINE

HARRISON MONUMENT
Y=321817.23
X=517563.21
Sta 999+14.05
25.44' RT

1329.57' N 89°55'37" E

NOT RECOVERED
Y=321818.539
X=518892.784
Sta 989+93.58
1250.05' RT

T 20 N R 5 E
T 21 N R 5 E
Sec. 2, 35, 36

COURSE TABLE		
PT*-PT*	BEARING	DISTANCE
6101-6102	N20°31'50"W	115.50'
6102-6104	N17°59'04"W	263.01'
6103-6104	N72°00'56"E	10.00'
6104-6105	N17°59'04"W	15.00'
6105-6106	S72°00'56"W	10.00'
6105-6107	N17°59'04"W	7.94'
6108-6109	S48°56'16"W	13.59'
6109-6110	N41°03'44"W	51.22'
6110-6111	N37°22'29"W	180.09'
6111-6112	N56°18'47"E	9.85'
6113-6114	S69°02'43"W	15.27'
6114-6115	N19°28'11"W	72.57'
6115-6116	N17°59'04"W	105.01'
6116-6117	N72°00'56"E	17.10'
6118-6119	S72°00'56"W	25.07'
6119-6120	N17°59'04"W	32.00'
6120-6121	N72°00'56"E	25.06'

STATION & OFFSET TABLE		
POINT #	STATION	OFFSET
ERW5415	986+65.72	40.00' RT
ERW5418	990+76.22	40.00' RT
ERW5421	996+19.99	40.00' RT
ERW5422	999+09.22	40.00' RT
TLE6100	995+00.00	40.00' RT
TLE6101	995+00.00	50.00' RT
TLE6102	996+19.99	50.00' RT
PLE6103	998+83.00	40.00' RT
PLE6104	998+83.00	50.00' RT
PLE6105	998+98.00	50.00' RT
PLE6106	998+98.00	40.00' RT
TLE6107	999+05.94	50.00' RT

STATION & OFFSET TABLE		
POINT #	STATION	OFFSET
PLE6108	990+25.00	36.41' LT
PLE6109	990+25.00	50.00' LT
PLE6110	990+76.22	50.00' LT
PLE6111	992+50.00	50.00' LT
PLE6112	992+50.00	40.15' LT
PLE6113	995+50.00	34.73' LT
PLE6114	995+50.00	50.00' LT
PLE6115	996+19.99	50.00' LT
PLE6116	997+25.00	50.00' LT
PLE6117	997+25.00	32.90' LT
PLE6118	998+98.00	32.93' LT
PLE6119	998+98.00	58.00' LT
PLE6120	999+30.00	58.00' LT
PLE6121	999+30.00	32.94' LT

REVISION DATE			
10/12/2017			
01/09/2018			
02/08/2018 N.C.			

DATE 9/27/2017

GRID FACTOR _____

SCALE, FEET 0 50 100

HWY: CTH Z

COUNTY: ADAMS

R/W PROJECT NUMBER 6355-00-05

CONSTRUCTION PROJECT NUMBER 6355-00-75

PLAT SHEET 4.12

PS&E SHEET 65

E

FILE NAME : CTH Z RIGHT OF WAY PLAT 2016.DWG
LAYOUT NAME - ****

PLOT DATE : 2/8/2018 10:34 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 75

CONTROL POINT AND BENCH MARK DATA					
POINT NO.	Y	X	DESCRIPTION	ELEVATION	LOCATION
20459	311395.40	514989.50	3/4" REBAR	932.85	870+38.95, 38.95' RT

WISCONSIN RIVER POWER CO.

PETENWELL FLOWAGE

WISCONSIN RIVER POWER CO.

JEFFREY & CHRISTI WEINGART

PHILLIP & COLLEEN KAUPLA

CALDWELL REAL ESTATE

CALDWELL REAL ESTATE

N

STA 871+75.13 RT
STA 160+00.00
TYPE B2 INTERSECTION REQUIRED

TLE FOR SLOPES

TLE FOR SLOPES

SLOPE INTERCEPT

FIRE NO. 245

FIRE NO. 239

FIRE NO. 235

PC: 878+98.90

MATCH LINE STA 880+00

HE R/W

R/W

BP: 160+00.00

865+00 866+00 867+00 868+00 869+00 870+00 871+00 872+00 873+00 874+00 875+00 876+00 877+00 878+00 879+00 880+00

N 57°16'36" E 2411.21'

SOLARUS

PHONE PED

FIRE NO. 254

20459

PI: 161+05.50

EP: 161+50.00

SOLARUS

SLOPE INTERCEPT

PED

BEGIN PROJECT 6355-00-05
STA 866+00.00
Y = 311192.804
X = 514597.917

DOLEZEL HOLDINGS LLC.

JOHN K. AND JEANMARIE A. ENDRIZZI

ADAMS COLUMBIA ELECTRIC COOPERATIVE

VIVIAN JURINAK

5

5

STA 865+00.00
EL 933.72

VPC STA 866+50
VPC EL 933.9

VPI STA 867+00
VPI EL 934.00

VPT STA 867+50
VPT EL 933.9

HIGH POINT STA 867+09.35
HIGH POINT EL 933.87

EXISTING GROUND

0.14%

-0.13%

VCL = 100.00
K = 373.83

FINISHED PROFILE ON C/L

940 930 920 910

865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880

933.72 933.79 933.77 933.86 933.68 933.93 933.61 933.97 933.53 933.94 933.48 933.87 933.43 933.81 933.44 933.74 933.45 933.68 933.46 933.62 933.47 933.55 933.51 933.49 933.57 933.43 933.55 933.36 933.53 933.30 933.47 933.24 933.41 933.17 933.29 933.11 933.19 933.04 933.21 932.98 933.24 932.92 933.32 932.85 933.38 932.79 933.34 932.72 933.28 932.66 933.12 932.60 932.97 932.53 932.91 932.47 932.85 932.41 932.79 932.34

PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	PLAN AND PROFILE: CTH Z	SHEET 66	E

CURVE NO. 11 DATA
PI STA = 881+95.87
X = 515940.507
Y = 312055.501
DELTA = 05°40'01"
D = 00°57'18"
T = 296.97
L = 593.45
R = 6000.00
SE = 2.30%

WISCONSIN RIVER POWER CO.

40 LF CULVERT PIPE CORRUGATED STEEL, 15-INCH W/2 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL, 15-INCH 30' LT

STA 883+96 GRAV PE

PT: 884+92.35

WISCONSIN RIVER POWER CO.

OVERHEAD TRANSMISSION LINE (ATC)

ADAMS COLUMBIA ELECTRIC COOPERATIVE

SLOPE INTERCEPT

20475

CTH Z

MATCH LINE STA 880+00

PI STA = 881+95.87

MATCH LINE STA 895+00

880+00 881+00 882+00 883+00 884+00 885+00 886+00 887+00 888+00 889+00 890+00 891+00 892+00 893+00 894+00 895+00

N 62°56'38" E 1100.19'

CURVE NO.11

SOLARUS

TLE FOR SLOPES

SLOPE INTERCEPT

STEPHEN & MELINDA HERTEL

MARK & JAQUELINE HAGEDORN

CHRISTIAN & NATALIE VOTH

CONTROL POINT AND BENCH MARK DATA

POINT NO.	Y	X	DESCRIPTION	ELEVATION	LOCATION
20475	312542.25	516818.80	3/4" REBAR	931.49	891+97.95, 33.98' LT

WISCONSIN RIVER POWER CO.

VCL = 100.00
K = 419.40
LOW POINT STA 887+13.89
LOW POINT EL 931.57

EXISTING GROUND

-0.13%

0.11%

FINISHED PROFILE ON C/L

VPC STA 886+50.00
VPC EL 931.51

VPI STA 887+00.00
VPI EL 931.45

VPT STA 887+50.00
VPT EL 931.51

940 930 920 910

880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895

932.79 932.34 932.69 932.28 932.48 932.22 932.29 932.15 932.17 932.09 932.06 932.02 932.00 931.96 931.95 931.90 931.99 931.83 932.02 931.77 932.02 931.70 932.01 931.64 931.99 931.58 931.97 931.51 931.95 931.48 931.94 931.51 931.94 931.56 931.89 931.62 931.88 931.67 931.87 931.73 931.84 931.78 931.80 931.84 931.76 931.89 931.74 931.95 931.78 932.00 931.83 932.06 931.88 932.12 931.98 932.17 932.13 932.23 932.26 932.28 932.41 932.34

PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	PLAN AND PROFILE: CTH Z	SHEET 67	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\VIEWFRAMEGROUPS\CTH Z CUTOUT.DWG
LAYOUT NAME - SHEET - (12)
PLOT DATE : 2/8/2018 12:33 PM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

WISCONSIN RIVER POWER CO.

CURVE NO. 12 DATA
PI STA = 897+83.16
X = 517354.521
Y = 312777.725
DELTA = 14°29'06"
D = 03°49'11"
T = 190.62
L = 379.21
R = 1500.00
SE = 5.60%

CURVE NO. 13 DATA
PI STA =907+54.81
X = 518083.303
Y = 313423.428
DELTA = 38°39'30"
D = 03°25'14"
T = 587.54
L = 1130.15
R = 1675.00
SE =5.30%

DELORES COENEN AND JOAN M. DUPUIS

MATCH LINE STA 895+00

MATCH LINE STA 910+00

PC: 895+92.54

CURVE NO. 12

PT: 899+71.75

20 LF CULVERT PIPE CORRUGATED STEEL, 15-INCH W/2 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL, 15-INCH 30' RT

PC: 901+67.28

STA 903+15 LT,RT
58 LF CULVERT PIPE
CLASS III-A 24-INCH
2-APRON ENDWALLS FOR
CULVERT PIPE 24-INCH
IE = 928.12 (W)
IE = 928.70 (E)

PLE FOR DRAINAGE

SLOPE INTERCEPT

CURVE NO. 13

PI STA =897+83.16

N48°27'32" E 195.52'

20003

WISCONSIN RIVER POWER CO.
20 LF CULVERT PIPE CORRUGATED STEEL, 15-INCH W/2 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL, 15-INCH 30' RT

TLE FOR SLOPES

MOUND

PHONE PED

STA 900+80 GRAV FE

STA 901+67 GRAV FE

BLDG

FIRE NO. 214

LOT 1
RUSSEL L. NIXON
& MARILYN RUSSO

STA 902+67
GRAV PE TO BE
ABANDONED

STA 903+15
REMOVING SMALL
CULVERT PIPE

PLE FOR DRAINAGE

SLOPE INTERCEPT

SOLARUS

ADAMS COLUMBIA ELECTRIC COOPERATIVE

PI STA =907+54.81

DELORES COENEN & JOAN M. DUPUIS

CONTROL POINT AND BENCH MARK DATA

POINT NO.	Y	X	DESCRIPTION	ELEVATION	LOCATION
20003	312801.12	517419.89	3/4" REBAR	931.88	898+47.98, 31.05' RT

EXISTING GROUND

0.11%

FINISHED PROFILE ON C/L

STA 903+15
1-24" C.P. REQ'D

940 930 920 910

895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910

932.41 932.34 | 932.51 932.39 | 932.58 932.45 | 932.66 932.50 | 932.74 932.56 | 932.80 932.61 | 932.85 932.67 | 932.83 932.73 | 932.75 932.78 | 932.70 932.84 | 932.70 932.89 | 932.73 932.95 | 932.78 933.00 | 932.86 933.06 | 932.95 933.11 | 933.08 933.17 | 933.25 933.22 | 933.45 933.28 | 933.63 933.34 | 933.68 933.39 | 933.63 933.45 | 933.50 933.50 | 933.35 933.56 | 933.24 933.61 | 933.15 933.67 | 933.09 933.72 | 933.04 933.78 | 933.04 933.84 | 933.00 933.89 | 933.07 933.95 | 933.14 934.00

PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	PLAN AND PROFILE: CTH Z	SHEET 68	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\VIEWFRAMEGROUPS\CTH Z CUTOUT.DWG
LAYOUT NAME - SHEET - (13)
PLOT DATE : 2/8/2018 12:33 PM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

△ CONTROL POINT AND BENCH MARK DATA

POINT NO.	Y	X	DESCRIPTION	ELEVATION	LOCATION
20492	314643.64	518280.68	3/4" REBAR	933.74	919+44.19, 24.23' LT
20495	315112.45	518462.85	3/4" REBAR	930.49	924+44.38, 23.69' RT

CURVE NO. 14 DATA
PI STA = 918+48.64
X = 518277.138
Y = 314545.561
DELTA = 06°03'43"
D = 01°45'47"
T = 172.09
L = 343.85
R = 3250.00
SE = 3.70%

N

MATCH LINE STA 910+00
PL
PI: 912+97.43
SLOPE INTERCEPT
ADAMS COLUMBIA ELECTRIC COOPERATIVE ELECTRIC BOX WITH METER
PHONE PED
PC: 916+76.55
SOLARUS
CURVE NO. 14
PI STA = 918+48.64
THEODORE ECKERT FOUNDATION
20492
PT: 920+20.41
PLE FOR DRAINAGE
STA 923+10.00 LT, RT
90 LF PIPE ARCH CORRUGATED STEEL
83X57-INCH
2 - APRON ENDWALLS
FOR PIPE ARCH STEEL
83X57-INCH
IE = 924.30 (W)
IE = 924.30 (E)
SKEW 45° RHF
TLE FOR SLOPES
MATCH LINE STA 925+00
CTH Z
IE=926.43
R/W
910+00 911+00 912+00 913+00 914+00 915+00 916+00 917+00 918+00 919+00 920+00 921+00 922+00 923+00 924+00 925+00
N 09°48'02" E
379.13'
N 15°51'45"E
880.40'
B-174
OHP
R/W
SOLARUS
SLOPE INTERCEPT
ADAMS COLUMBIA ELECTRIC COOPERATIVE
PHONE PED
SIGN
BLDG
BLDG
FIRE NO. 192
STA 918+28 GRAV PE
TLE FOR SLOPES
30 LF CULVERT PIPE CORRUGATED STEEL, 15-INCH W/2 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL, 15-INCH 33' RT
STA 920+91 GRAV PE
SEE GUARD RAIL DETAIL SHEETS
PLE FOR DRAINAGE
REMOVING OLD STRUCTURE STA 923+25
20495
CHESTER C
THEODORE ECKERT FOUNDATION

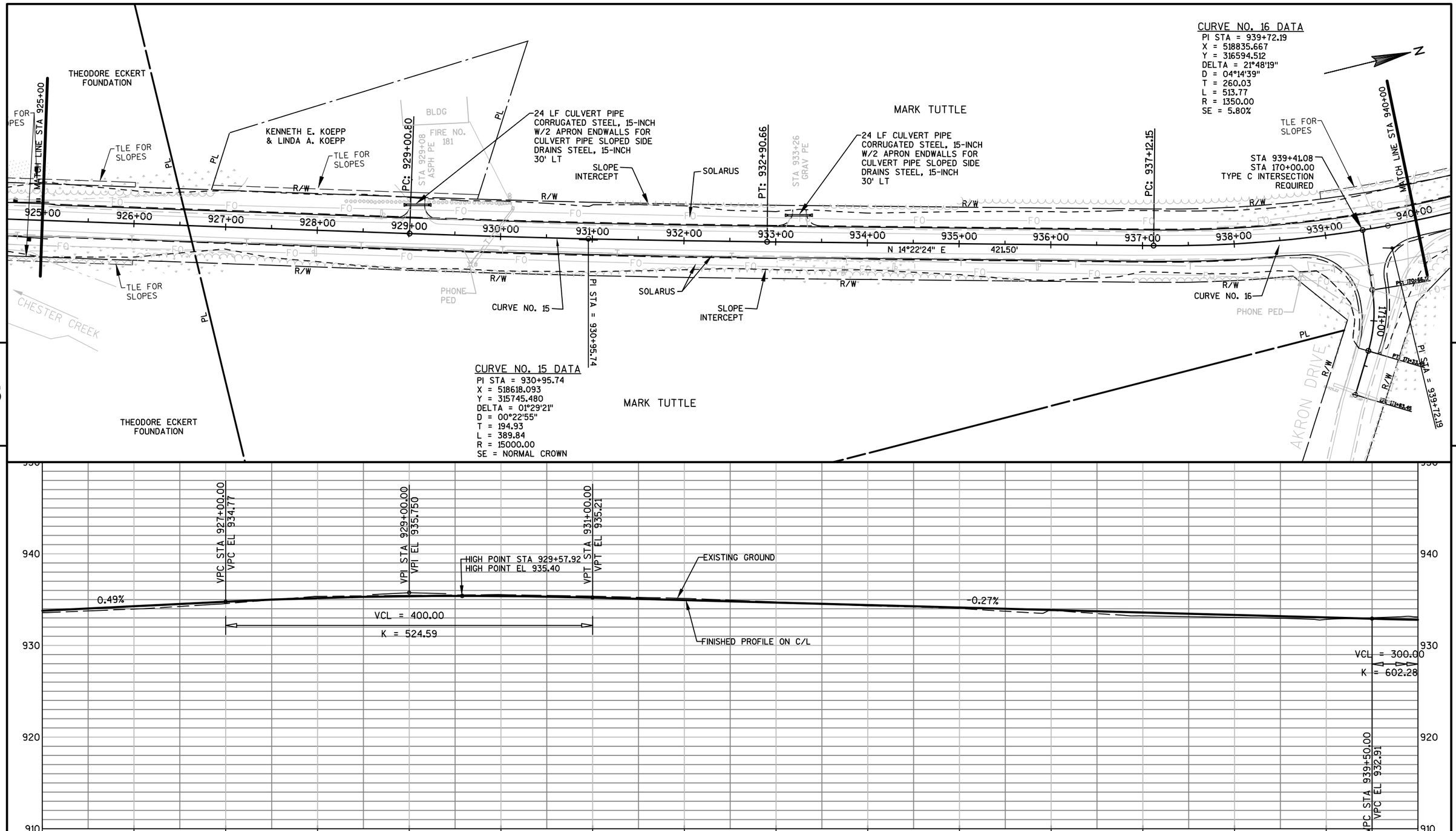
5 5

EXISTING GROUND
FINISHED PROFILE ON C/L
0.11%
VPC STA 917+50.00
VPC EL 934.83
VPI STA 919+00.00
VPI EL 935.000
VPT STA 920+50.00
VPT EL 934.18
HIGH POINT STA 917+00.35
HIGH POINT EL 934.86
VCL = 300.00
K = 453.90
VCL = 300.00
K = 288.00
0.55%
LOW POINT STA 923+08.40
LOW POINT EL 933.19
0.49%
VPC STA 921+50.00
VPC EL 933.62
VPI STA 923+00.00
VPI EL 932.80
STA 923+10
1-83"X57" C.P. REQ'D
VPT STA 924+50.00
VPT EL 933.54
940 930 920 910

910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925

933.14 934.00 | 933.26 934.06 | 933.35 934.11 | 933.36 934.17 | 933.31 934.22 | 933.25 934.28 | 933.19 934.33 | 933.31 934.39 | 933.47 934.45 | 933.57 934.50 | 933.67 934.56 | 933.79 934.61 | 933.91 934.67 | 934.17 934.72 | 934.44 934.78 | 934.74 934.83 | 935.03 934.86 | 935.14 934.83 | 935.22 934.75 | 935.22 934.61 | 935.21 934.42 | 935.03 934.18 | 934.82 933.90 | 934.43 933.62 | 934.03 933.39 | 933.82 933.25 | 933.60 933.19 | 933.59 933.22 | 933.60 933.34 | 933.59 933.54 | 933.59 933.78

PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	PLAN AND PROFILE: CTH Z	SHEET 69	E

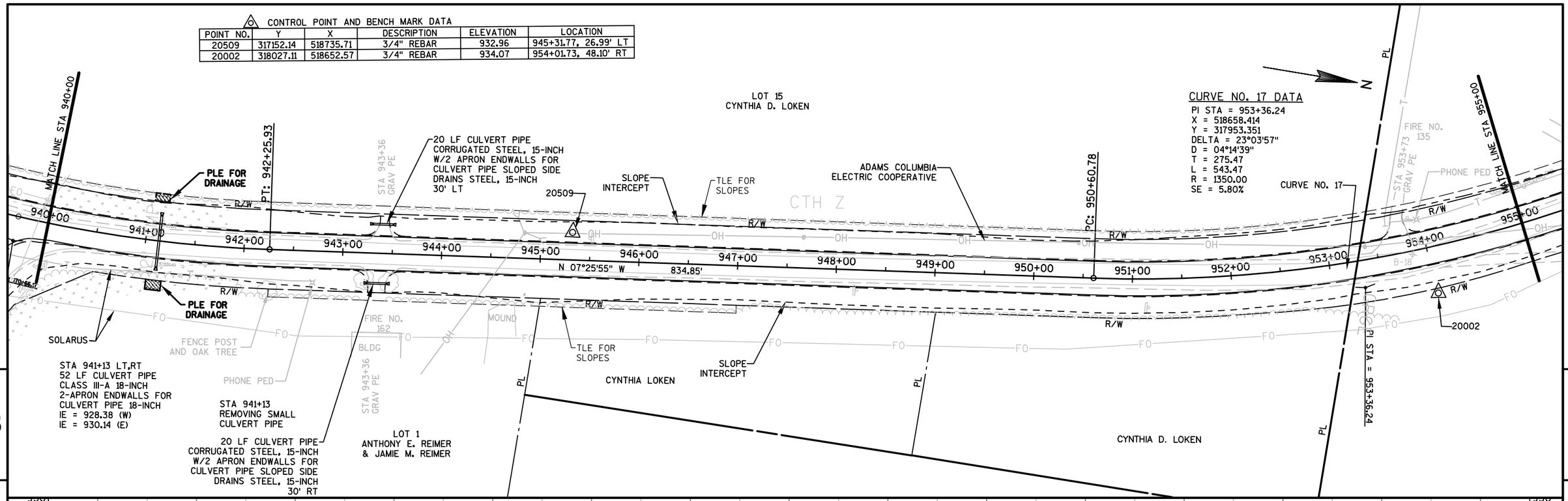


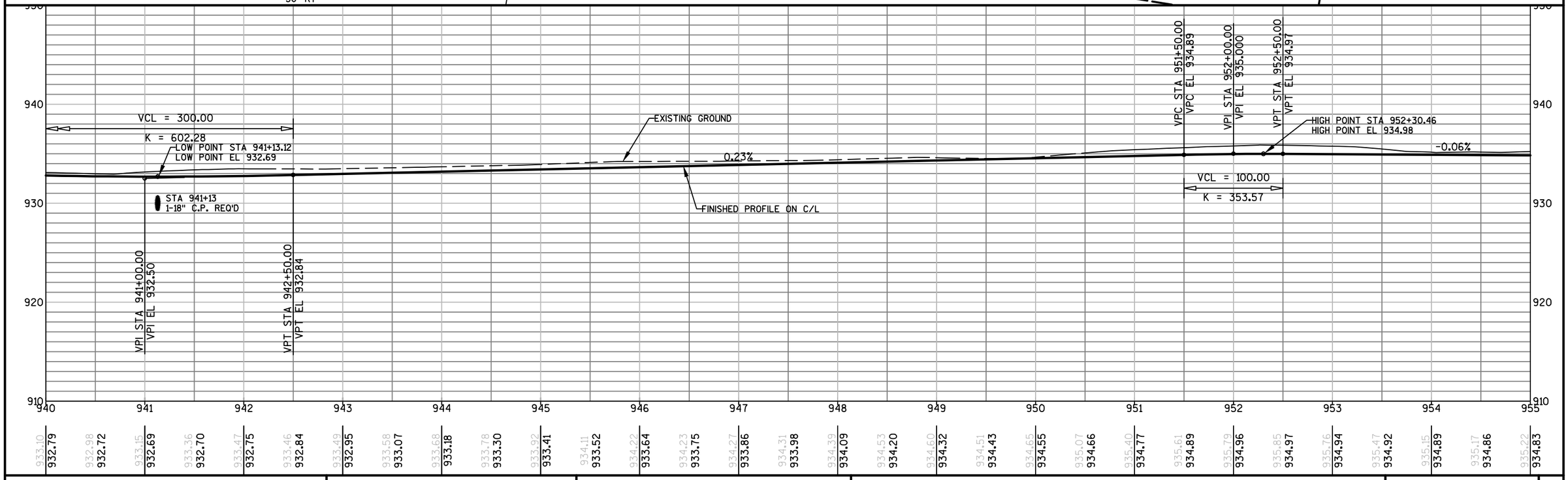
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	PLAN AND PROFILE: CTH Z	SHEET 70 E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\VIEWFRAMEGROUPS\CTH Z CUTOUT.DWG
LAYOUT NAME - SHEET - (15)
PLOT DATE : 2/8/2018 12:33 PM
PLOT BY : ANDREW LEE
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

CONTROL POINT AND BENCH MARK DATA

POINT NO.	Y	X	DESCRIPTION	ELEVATION	LOCATION
20509	317152.14	518735.71	3/4" REBAR	932.96	945+31.77, 26.99' LT
20002	318027.11	518652.57	3/4" REBAR	934.07	954+01.73, 48.10' RT





PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	PLAN AND PROFILE: CTH Z	SHEET 71	E

CURVE NO. 18 DATA
PI STA = 960+61.74
X = 518286.433
Y = 318584.906
DELTA = 05°50'21"
D = 01°07'24"
T = 260.11
L = 519.77
R = 5100.00
SE = 3.00%

CYNTHIA D. LOKEN (TUTTLE)

MATCH LINE STA 955+00

PT: 956+04.25

PC: 958+01.64

TLE FOR SLOPES

PL

R/W

955+00 956+00 957+00 958+00 959+00 960+00 961+00 962+00 963+00 964+00 965+00 966+00 967+00 968+00 969+00

N 30°29'52" W 197.39'

N 36°20'13" W 443.42'

CURVE NO.18

SOLARUS

STA 961+50.93
STA 180+00.00
TYPE C INTERSECTION REQUIRED

PT: 963+21.40

PI STA = 960+61.74

181+00

STA 960+03 GRAV PE

STA 963+09 GRAV PE

PHONE PED

FIRE NO. 133

20 LF CULVERT PIPE
CORRUGATED STEEL, 15-INCH
W/2 APRON ENDWALLS FOR
CULVERT PIPE SLOPED SIDE
DRAINS STEEL, 15-INCH
30' LT

SLOPE INTERCEPT

30 LF CULVERT PIPE
CORRUGATED STEEL, 15-INCH
W/2 APRON ENDWALLS FOR
CULVERT PIPE SLOPED SIDE
DRAINS STEEL, 15-INCH
30' LT

ATC

AKRON AVENUE

ELECTRIC BOX

ADAMS COLUMBIA ELECTRIC COOPERATIVE

DRIVEWAY ACCESS OFF AKRON AVE

LOT 1
GEORGENE M. SRSEN
& WALTER A. ORLANDONI

LOT 2
CYNTHIA D. LOKEN (TUTTLE)

LOT 3
GAIL M. WASZAK TRUST

OUTLOT 1

LOT 3

STA 966+17
REMOVING SMALL CULVERT PIPE

STA 966+17 GRAV PE

FIRE NOS. 125,127&129

24 LF CULVERT PIPE
CORRUGATED STEEL, 15-INCH
W/2 APRON ENDWALLS FOR
CULVERT PIPE SLOPED SIDE
DRAINS STEEL, 15-INCH
30' LT

SLOPE INTERCEPT

TLE FOR SLOPES

STANLEY M. LYONS

ADAMS COLUMBIA ELECTRIC COOPERATIVE

LOT 2
ALEXANDRA DEMBICKI TRUST
MARIUSZ DEMBICKI TRUST

30 LF CULVERT PIPE
CORRUGATED STEEL, 15-INCH
W/2 APRON ENDWALLS FOR
CULVERT PIPE SLOPED SIDE
DRAINS STEEL, 15-INCH
35.5' LT

PC: 967+64.82

STA 969+17 GRAV PE

FIRE NO. 117

FIRE NOS. 119,121&123

DRIVE PRIVATE

CEDAR FENCE

LOT 1
MARY M. HERMAN

PHONE PED

KEVIN D. COLE & DEBRA R. COLE

MATCH LINE STA 970+00

CURVE NO. 19

EXISTING GROUND

-0.06%

FINISHED PROFILE ON C/L

VPC STA 968+50.00
VPC EL 934.08

VPI STA 970+00.00
VPI EL 934.000

VCL = 300.00
K = 262.14

STA 970+00
1-15" C.P. REQ'D

940 930 920 910

955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970

935.22 934.83 | 935.36 934.81 | 935.40 934.78 | 935.40 934.75 | 935.47 934.72 | 935.56 934.69 | 935.58 934.67 | 935.54 934.64 | 935.48 934.61 | 935.39 934.58 | 935.26 934.56 | 935.09 934.53 | 934.97 934.50 | 934.83 934.47 | 934.76 934.44 | 934.76 934.42 | 934.62 934.39 | 934.53 934.36 | 934.55 934.33 | 934.61 934.31 | 934.80 934.28 | 935.03 934.25 | 934.97 934.22 | 934.84 934.19 | 934.97 934.17 | 935.23 934.14 | 935.44 934.11 | 935.27 934.08 | 934.25 934.01 | 932.59 933.84 | 931.23 933.57

PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	PLAN AND PROFILE: CTH Z	SHEET	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\VIEWFRAMEGROUPS\CTH Z CUTOUT.DWG
LAYOUT NAME - SHEET - (17)
PLOT DATE : 2/8/2018 12:34 PM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE D
STA 970+00 - 974+00

STA 970+00 LT, RT
72 LF CULVERT PIPE
CLASS III-A 15-INCH
2- APRON ENDWALLS FOR
CULVERT PIPE STEEL 15-INCH
IE = 928.40 (W)
IE = 929.06 (E)

TLE FOR
FISH HABITAT

STA 973+34.24, 17.5' RT
CATCH BASIN, 2X3-FT
TOP OF STRUCTURE 928.18 DEPTH 3.78'
INLET COVER TYPE HM EL=928.84
44 LF STORM SEWER PIPE REINFORCED CONCRETE
CLASS III 12-INCH
INLET EL=925.90-DISCHARGE IE=925.40 SLOPE 0.01'/'
STA 973+34.24, 34' LT
1-APRON ENDWALLS
FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH

STA 975+46 LT, RT
64 LF CULVERT PIPE
CLASS III 48-INCH
2-APRON ENDWALLS FOR
CULVERT PIPE 48-INCH
IE = 919.46 (W)
IE = 919.51 (E)
SKEW 20° RHF

CURVE NO. 21 DATA
PI STA = 982+87.59
X = 518471.999
Y = 320398.517
DELTA = 60°29'15"
D = 07°09'43"
T = 466.43
L = 844.57
R = 800.00
SE = 5.90%

SEE GUARD RAIL
DETAIL SHEETS

SEE GUARD RAIL
DETAIL SHEETS

SLOPE
INTERCEPT

SLOPE
INTERCEPT

FISH HABITAT
STRUCTURE TREES (TYP)

PETENWELL FLOWAGE

REMOVING GUARD RAIL
STA 970+18 170' LT - 999+10 18' LT

REMOVING GUARD RAIL
STA 973+76 RT - 977+00 RT

PLE FOR
RIPRAP SLOPE

PLE FOR
RIPRAP SLOPE

MATCH LINE STA 970+00

MATCH LINE STA 985+00

KEVIN D. COLE &
DEBRA R. COLE

POST AND PANEL RETAINING WALL
STA 970+25 -974+00.28
FENCE CHAIN LINK 6-FT
STA 970+25 - 974+00

ASPHALT FLUME

ASPHALT
FLUME

GUARD RAIL

GUARD RAIL

CURVE NO. 19

CURVE NO. 21

CURVE
NO.20

PC: 973+69.24

PT: 976+55.65

PC: 978+21.16

PI STA = 975+26.97

PI STA = 982+87.59

N 19°25'31" E 165.50'

20541

20540

ADAMS COLUMBIA
ELECTRIC COOPERATIVE

TLE FOR
SLOPES

STA 975+46
REMOVING SMALL
CULVERT PIPE

CTH Z

CURVE NO. 19 DATA
PI STA = 972+39.70
X = 517588.188
Y = 319534.167
DELTA = 115°26'08"
D = 19°05'55"
T = 474.88
L = 604.42
R = 300.00
SE = 5.80%

CURVE NO. 20 DATA
PI STA = 975+26.97
X = 518209.378
Y = 319653.807
DELTA = 59°40'24"
D = 20°50'05"
T = 157.73
L = 286.41
R = 275.00
SE = 5.90%

CONTROL POINT AND BENCH MARK DATA

POINT NO.	Y	X	DESCRIPTION	ELEVATION	LOCATION
20540	319962.46	518340.65	3/4" REBAR	925.86	978+32.44, 21.23' RT
20541	320445.15	518376.46	3/4" REBAR	926.51	983+04.13, 43.36' RT

VPI STA 970+00.00
VPI EL 934.000

VPT STA 971+50.00
VPT EL 932.20

VCL = 300.00
K = 262.14

-1.20%

VCL = 400.00
K = 303.80

LOW POINT STA 976+64.56
LOW POINT EL 928.21

EXISTING GROUND

0.12%

STA 970+00
1-15" C.P. REQ'D

STA 973+34.24
1-12" C.P. REQ'D

STA 975+46
1-48" C.P. REQ'D

FINISHED PROFILE ON C/L

VPC STA 973+00.00
VPC EL 930.40

VPI STA 975+00.00
VPI EL 928.00

VPT STA 977+00.00
VPT EL 928.23

| | | |

CONTROL POINT AND BENCH MARK DATA

POINT NO.	Y	X	DESCRIPTION	ELEVATION	LOCATION
20556	321429.47	517688.55	3/4" REBAR	925.79	995+04.68, 20.07' RT

CURVE NO. 22 DATA
PI STA = 993+51.84
X = 517714.913
Y = 321267.533
DELTA = 23°04'41"
D = 04°14'39"
T = 275.62
L = 543.76
R = 1350.00
SE = 4.70%

PETENWELL FLOWAGE

WISCONSIN RIVER POWER CO.

KEVIN D. COLE & DEBRA R. COLE

ADAMS COLUMBIA ELECTRIC COOPERATIVE

MATCH LINE STA 985+00

PT: 986+65.72

STA 989+17, LT & RT
4' X 6' CONCRETE SIDEWALK 4-INCH W/ DETECTABLE WARNING FIELD

STA 989+18 STAIRWAY LT

SLOPE INTERCEPT

ASPHALT FLUME

PC: 990+76.22

PLE FOR RIPRAP SLOPE

GUARD RAIL

SEE GUARD RAIL DETAIL SHEETS

PI STA = 993+51.84

PT: 996+19.99

PLE FOR RIPRAP SLOPE

END CONSTRUCTION
STA 999+30.00

PLE FOR DRAINAGE & BEAM GUARD

GUARD RAIL

EP: 1000+00.00

STA 999+22.36

985+00 986+00 987+00 988+00 989+00 990+00 991+00 992+00 993+00 994+00 995+00 996+00 997+00 998+00 C/L 999+00 1000+00

R/W

N41°03'44" W 410.50'

N 17°59'04" W 302.37'

10:1

CURVE NO. 22

20556

SLOPE INTERCEPT

ASPHALT FLUME

TLE FOR SLOPES

SOLARUS

STA 988+63 ASPH CE

STA 989+50 ASPH CE

STA 985+64 ASPH PE

PHONE PED

FIRE NO. 114

FIRE NO. 108

BLDG

LILACS

GRAY BOAT LANDING

WOOD COUNTY

ADAMS COUNTY

STA 998+97.95
REMOVING SMALL CULVERT PIPE

PLE FOR DRAINAGE

STA 998+97.82
60 LF CULVERT PIPE
CLASS III-A 18-INCH
2-APRON ENDWALLS FOR CULVERT PIPE 18-INCH
IE=923.00 (W)
IE=923.26(E)
SKEW 9° LHF

END PROJECT 6355-00-05
STA 999+22.36
Y = 321817.283
X = 517536.454

DEPRESS CURB HEAD FOR PEDESTRIAN CROSSING
STA 988+90-989+40 LT

CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
STA 985+44 - 992+00 RT
STA 985+44 - 990+10 LT

LOT 1 KEVIN D. COLE & DEBRA R. COLE

LOT 2
ROBERT R. TUTTLE (TRUST)

LOT 2
JOSEPH A. & ROSE A. ROMANO

LOT 1
KEVIN D. COLE & DEBRA R. COLE

LOT 2
JON A. & PATRICIA A. SONNENBURG

VPC STA 989+30.00
VPC EL 929.67

VPI STA 990+00.00
VPI EL 929.750

VPT STA 990+70.00
VPT EL 929.43

HIGH POINT STA 989+58.41
HIGH POINT EL 929.68

0.12%

VCL = 140.00
K = 243.48

EXISTING GROUND

-0.46%

FINISHED PROFILE ON C/L

VCL = 300.00
K = 411.96

LOW POINT STA 996+38.82
LOW POINT EL 927.25

0.27%

-0.36%

STA 995+50.00
EL 924.50

STA 998+95.00
EL 923.26

STA 998+97.82
1-18" C.P. REQ'D

SPECIAL DITCH RT.

VPC STA 994+50.00
VPC EL 927.69

VPI STA 996+00.00
VPI EL 927.00

VPT STA 997+50.00
VPT EL 927.40

STA 999+22.36
EL 927.87

940 930 920 910

985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

928.90 929.17 929.10 929.22 928.86 929.28 929.19 929.34 929.39 929.40 929.47 929.46 929.59 929.52 929.54 929.58 929.69 929.63 929.72 929.68 929.67 929.65 929.54 929.51 929.46 929.29 929.25 929.06 929.01 928.83 928.89 928.60 928.38 928.38 928.19 928.15 927.74 927.92 927.80 927.69 927.62 927.49 927.57 927.35 927.47 927.27 927.53 927.26 927.58 927.30 927.73 927.40 927.83 927.54 927.76 927.67 927.46 927.81 928.02 929.03

PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	PLAN AND PROFILE: CTH Z	SHEET 74	E

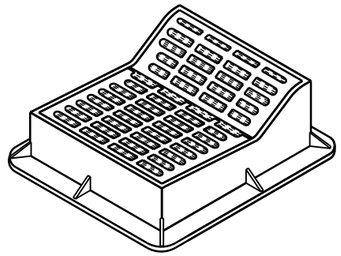
FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\VIEWFRAMEGROUPS\CTH Z CUTOUT.DWG
LAYOUT NAME - SHEET - (19)
PLOT DATE : 2/8/2018 12:34 PM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:100 FT

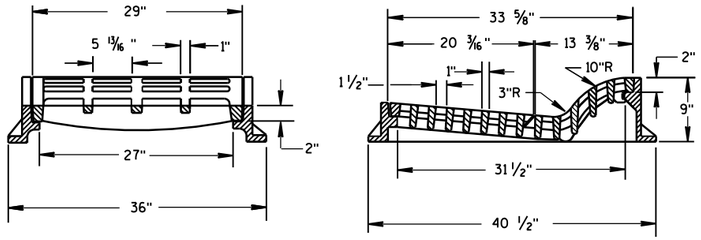
WISDOT/CADDS SHEET 44

Standard Detail Drawing List

08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A09-02	CATCH BASINS 2X3-FT AND 2.5X3-FT
08D01-20A	CONCRETE CURB & GUTTER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-19A	CURB RAMPS TYPES 1 AND 1-A
08D05-19B	CURB RAMPS TYPES 2 AND 3
08D05-19C	CURB RAMPS TYPES 4A AND 4A1
08D05-19D	CURB RAMPS TYPE 4B AND 4B1
08D05-19E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-19F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-19G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E11-02	TURBIDITY BARRIER
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F07-05	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE FRAINS
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
12A03-10	NAME PLATE (STRUCTURES)
13A10-01A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-01B	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-01C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-01D	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B28-03	GUARDRAIL MOW STRIP
14B42-05A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-05B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-05C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-05D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B43-03A	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-03B	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-03C	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B44-03A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-03B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-03C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B53-01A	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01B	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01C	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01D	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01E	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01F	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01G	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01H	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
14B53-01I	SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15B03-15A	FENCE CHAIN LINK
15B03-15B	FENCE CHAIN LINK
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
15C08-18A	LONGITUDINAL MARKING (MAINLINE)
15C12-06	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C33-02	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-01A	PAVEMENT MARKING (INTERSECTIONS)
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

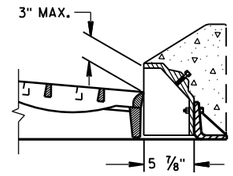
6





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

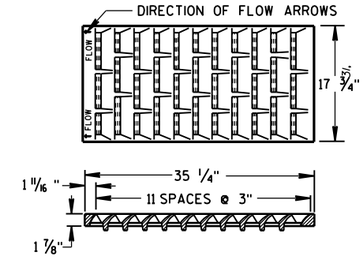
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

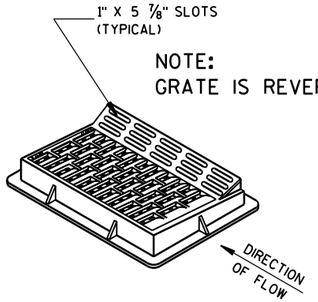
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

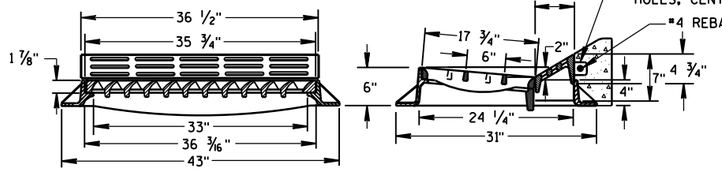
GENERAL NOTES

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

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



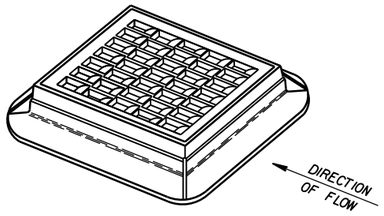


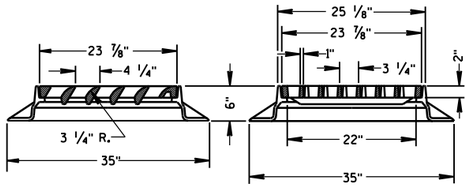


TYPE "HM"

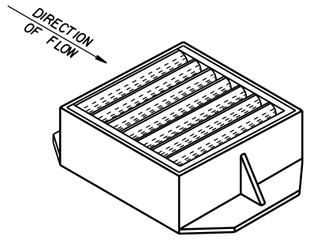
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

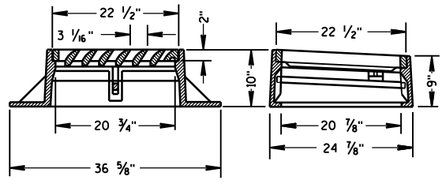
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



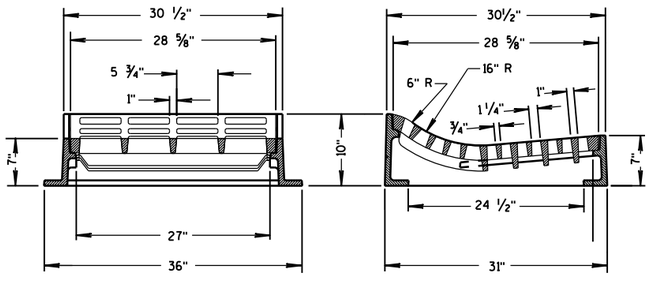


TYPE "S"



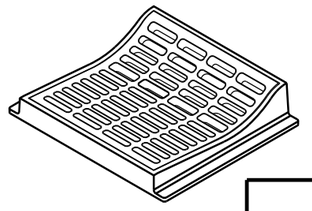


TYPE "V"



TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.



INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

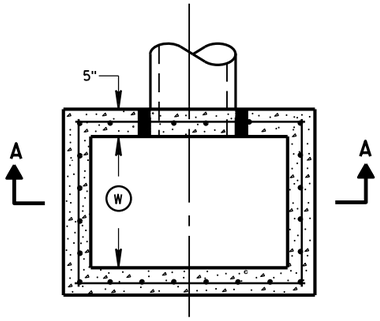
APPROVED
11/27/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

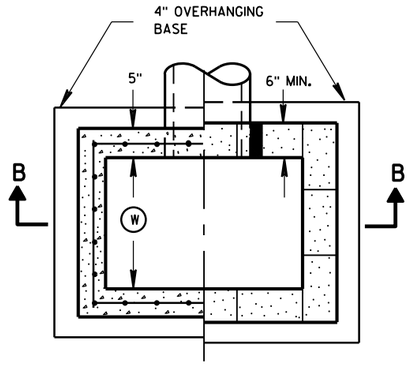
FHWA

6

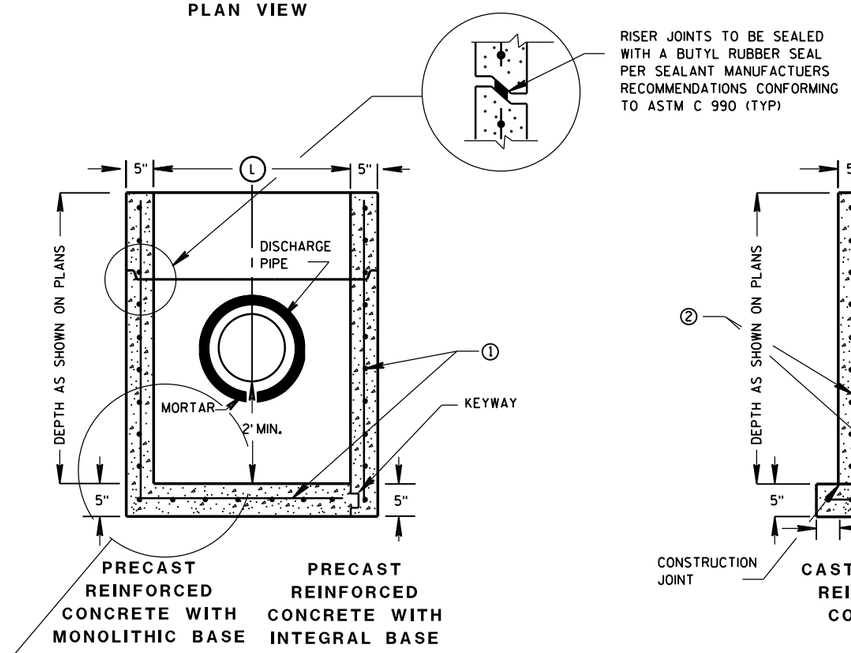
S.D.D. 8 A 5-19c



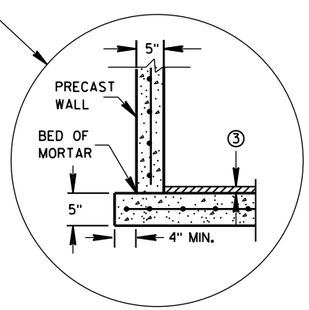
PLAN VIEW



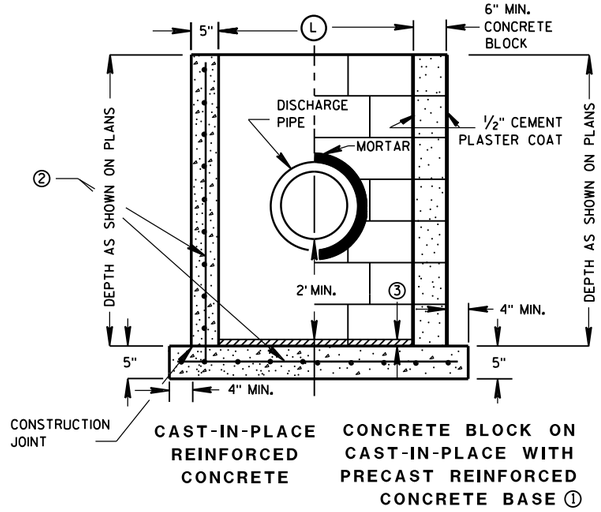
PLAN VIEW



SECTION A-A



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION



SECTION B-B

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.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST CATCH BASIN UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST CATCH BASIN UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

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

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

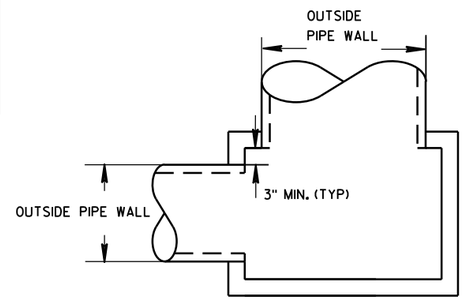
③ 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER MATRIX

CATCH BASIN SIZE		INLET COVER TYPE	F	ALL H'S
	WIDTH (W) (FT)	LENGTH (L) (FT)		
2X3-FT	2	3		X
2.5X3-FT	2.5	3	X	

PIPE MATRIX

CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	WIDTH (IN)	LENGTH (IN)
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

CATCH BASINS 2X3-FT AND 2.5X3-FT

CATCH BASINS 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
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Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

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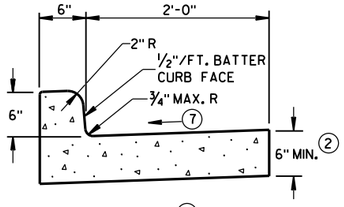
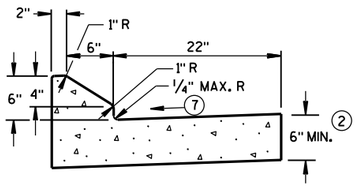
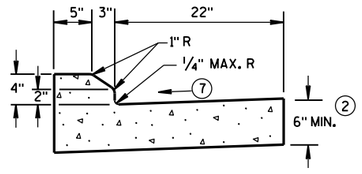


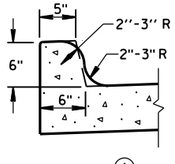
TYPES A (1) & D



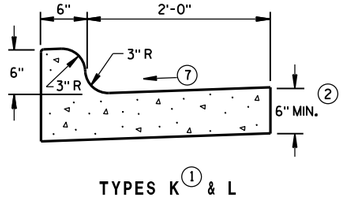
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

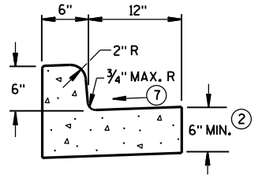


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



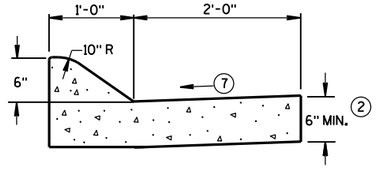
TYPES K (1) & L

CONCRETE CURB & GUTTER 30"

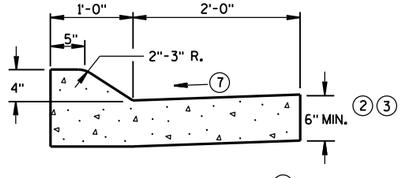


TYPES A (1) & D

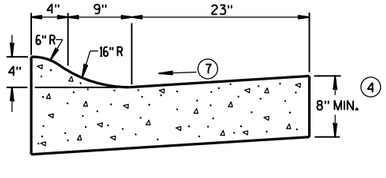
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

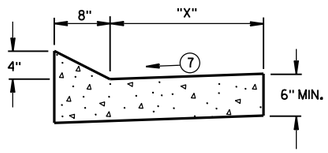


4" SLOPED CURB TYPES A (1) & D



4" SLOPED CURB TYPES R (1) & T (5)

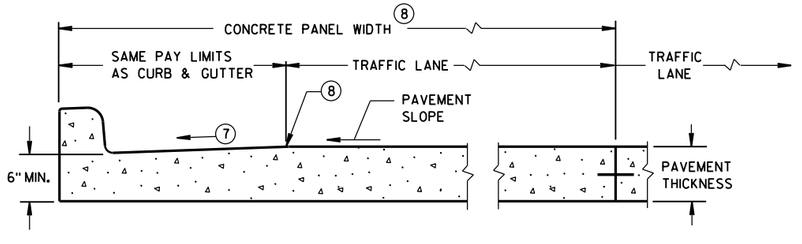
CONCRETE CURB & GUTTER 36"



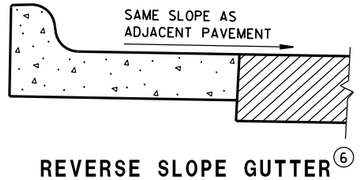
TYPES TBT & TBTT (1)

CONCRETE CURB & GUTTER

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



PARTIAL SECTION OF PAVEMENT *
WITH INTEGRAL CURB & GUTTER



REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

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.

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.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'

* BIKE LANE IS NOT SHOWN.

CONCRETE CURB & GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

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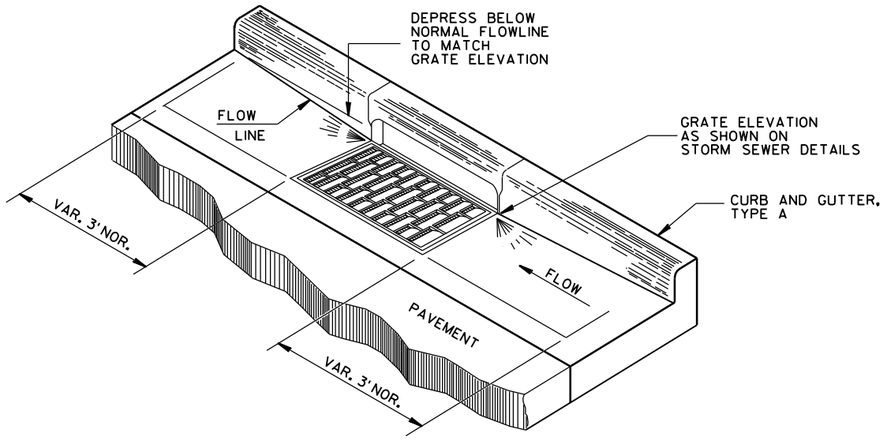


DETAIL OF CURB AND GUTTER AT INLETS

(TYPE H INLET COVER SHOWN)

GENERAL NOTES

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

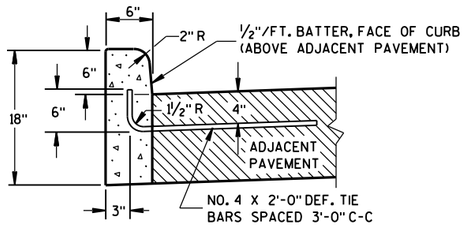
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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

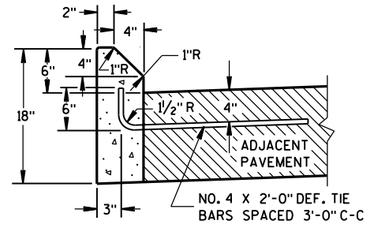
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(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.

(9) REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

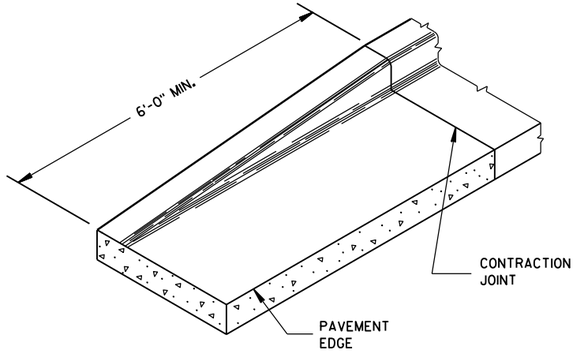


TYPES A(1) & D

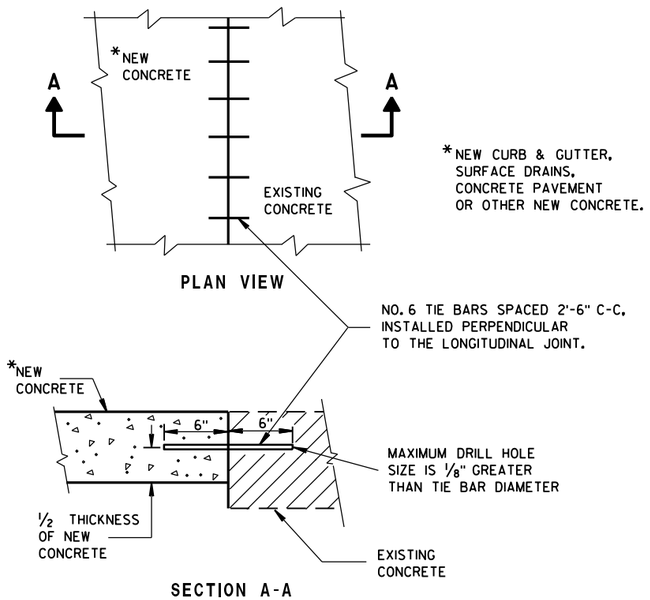


TYPES G(1) & J

CONCRETE CURB



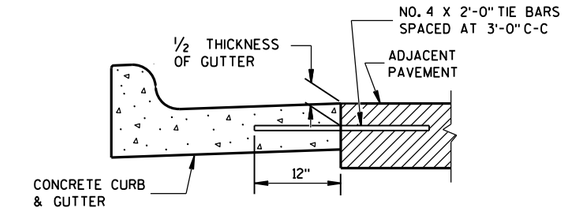
END SECTION CURB & GUTTER



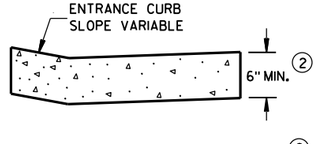
PLAN VIEW

SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (9)

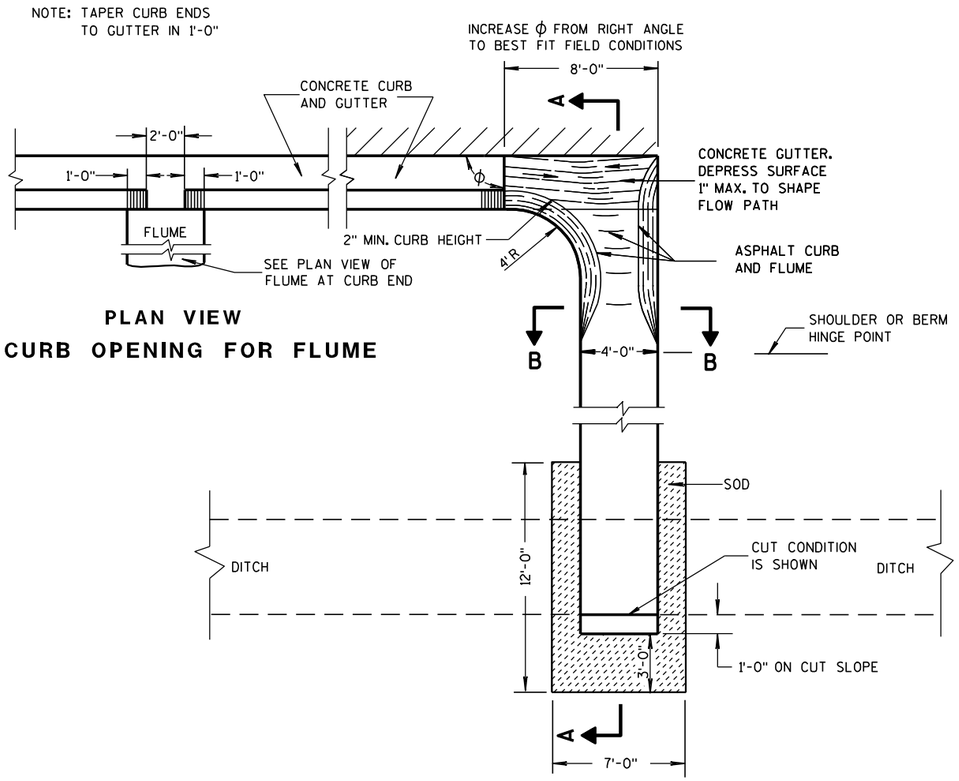
(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

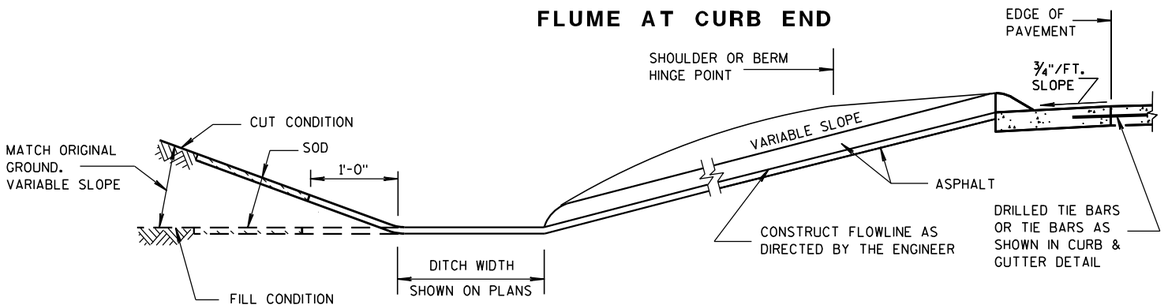
APPROVED
June, 2017 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

ASPHALTIC FLUME

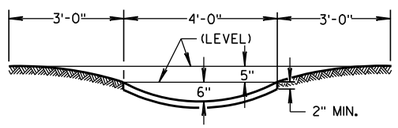


PLAN VIEW
CURB OPENING FOR FLUME

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.

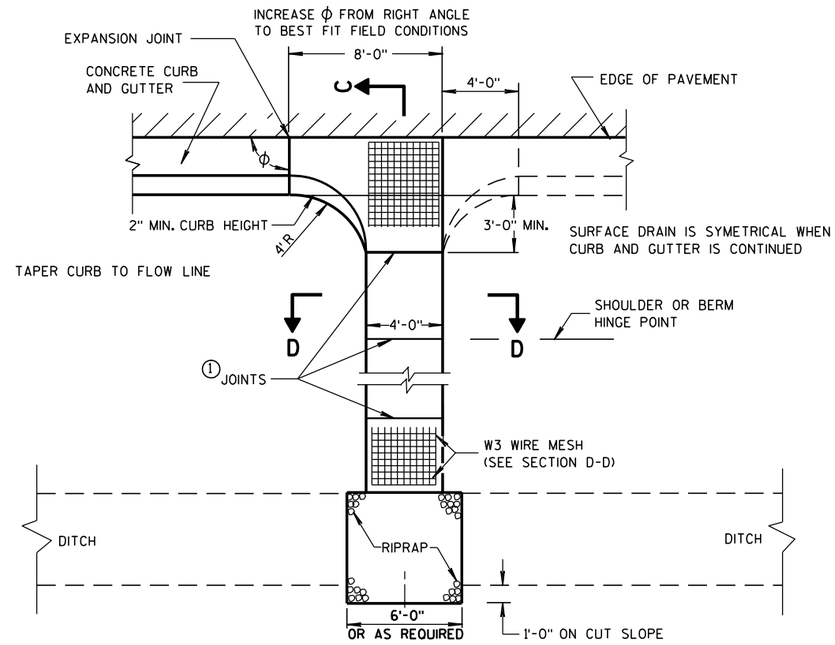
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

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.

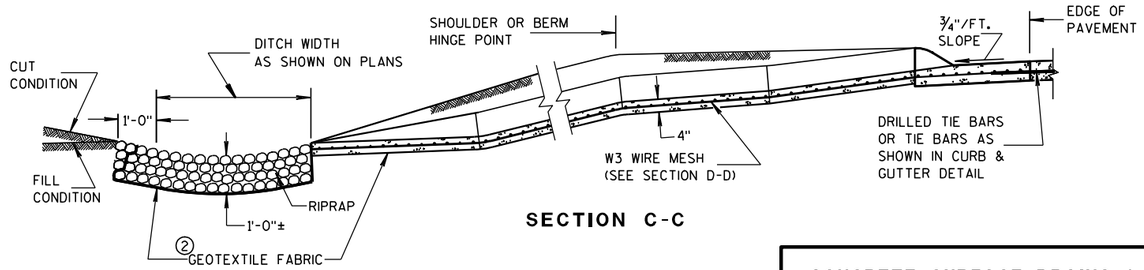
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

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

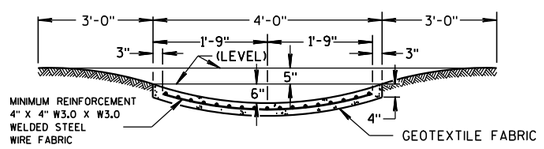
③ CONCRETE SURFACE DRAIN



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

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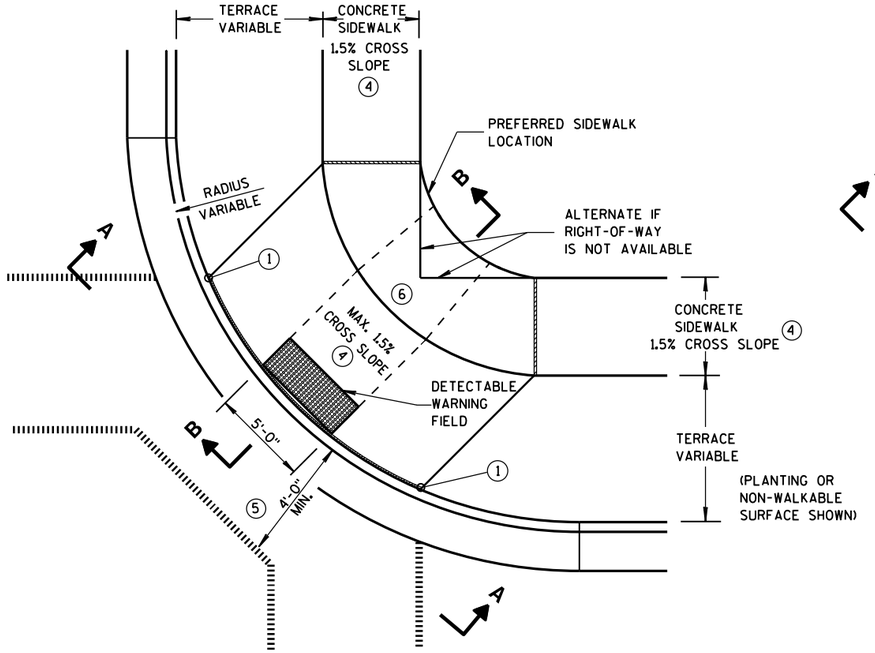
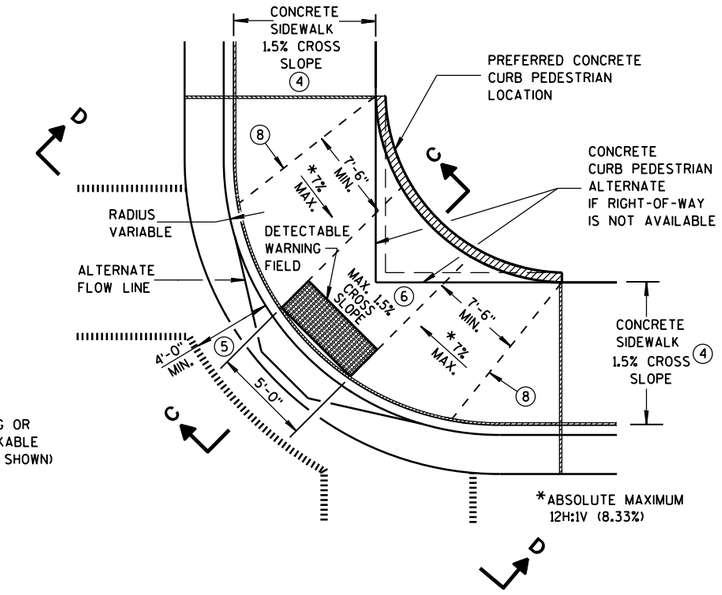
S.D.D. 8 D 4-5



PLAN VIEW

TYPE 1 RAMP

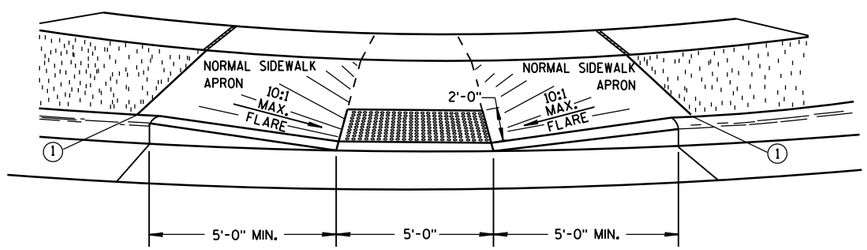
(CENTER OF CORNER RADIUS)



PLAN VIEW

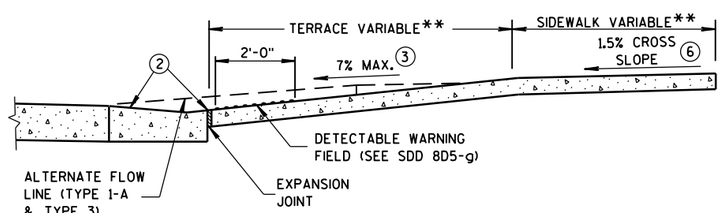
TYPE 1-A RAMP

(NO TERRACE)

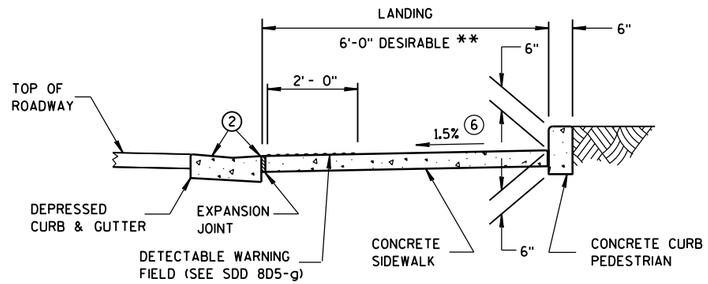


VIEW A-A

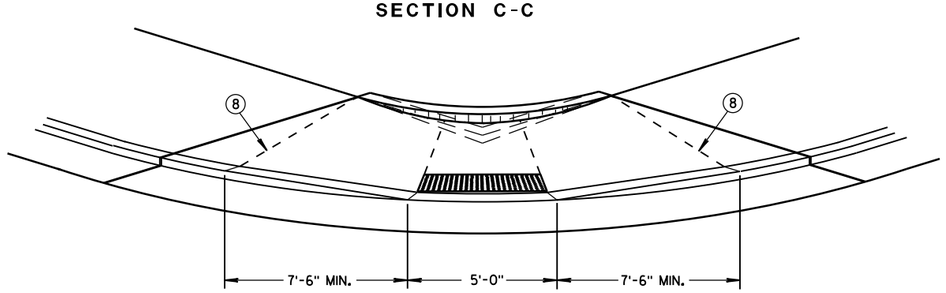
** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B



SECTION C-C



VIEW D-D

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA. (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

LEGEND

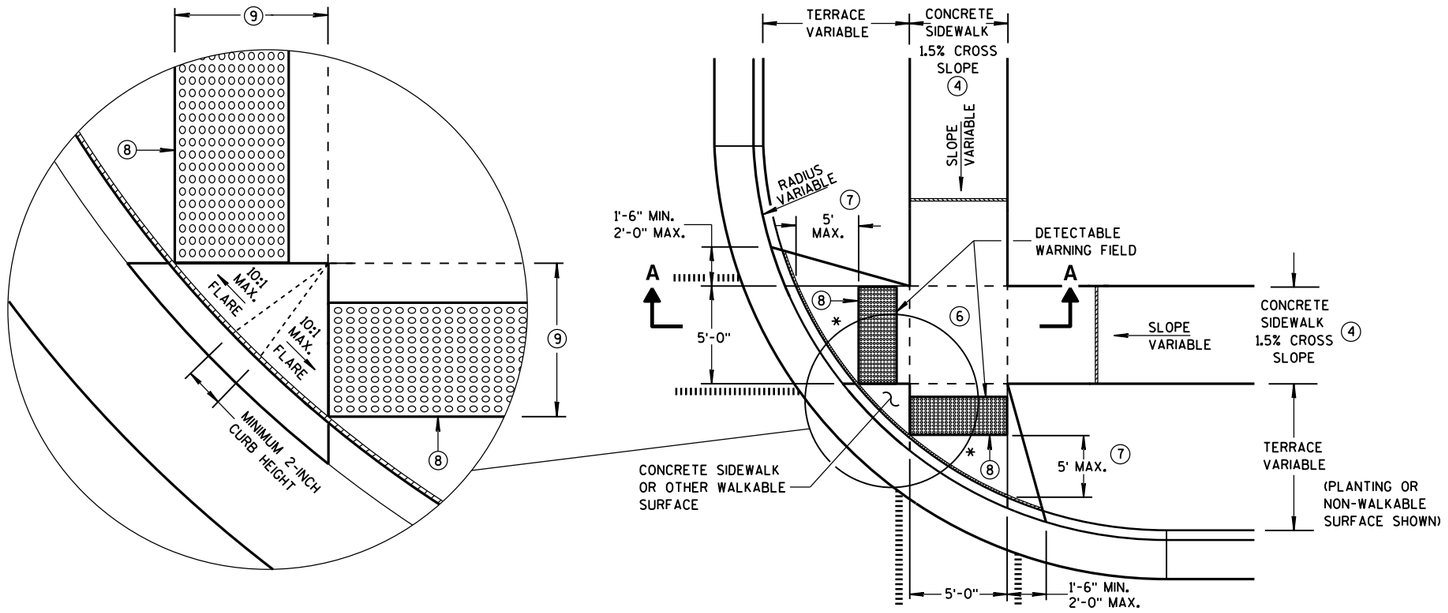
- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT

CURB RAMPS TYPES 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

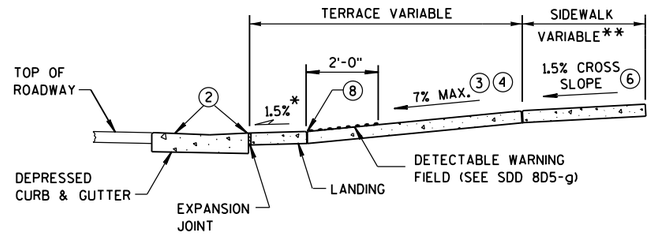
6

S.D.D. 8 D 5-19a



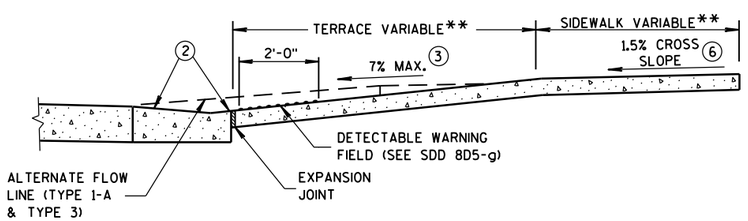
PLAN VIEW
TYPE 2 RAMP
(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



SECTION A-A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

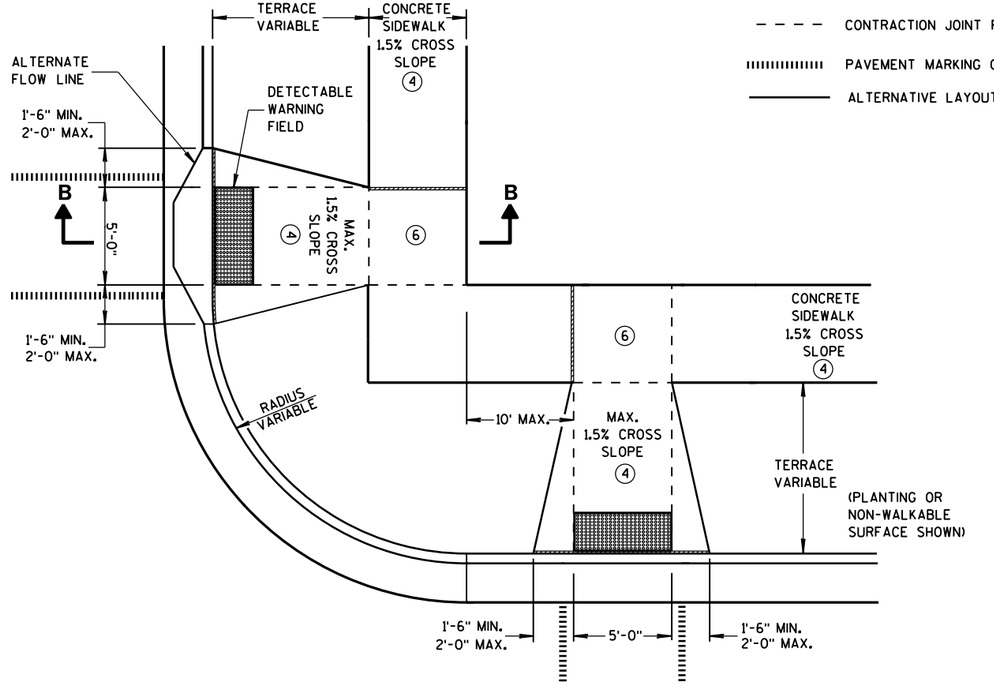
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(9) WHEN THIS DISTANCE IS LESS THAN 6'-0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.

LEGEND

- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



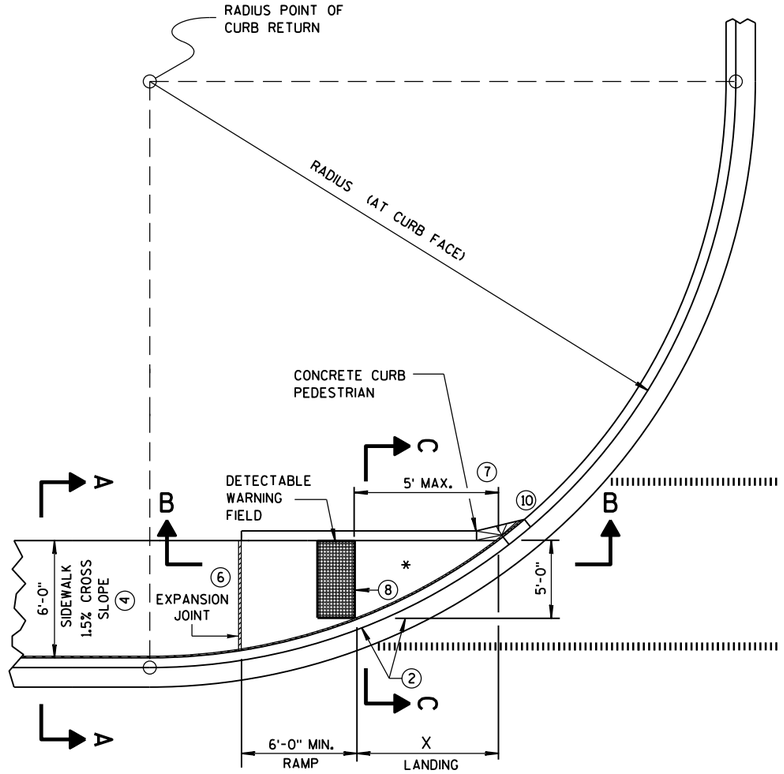
PLAN VIEW
TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS TYPES 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

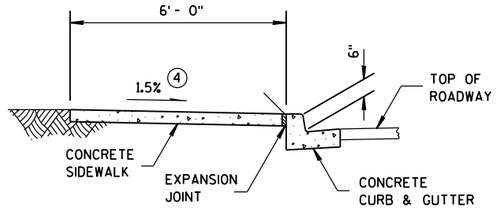
S.D.D. 8 D 5-19b



CURB RAMP TYPE 4A
PLAN VIEW

RADIUS (AT CURB FACE)	X
10 FEET	4'-7"
15 FEET	6'-5½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A-A FOR TYPE 4A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

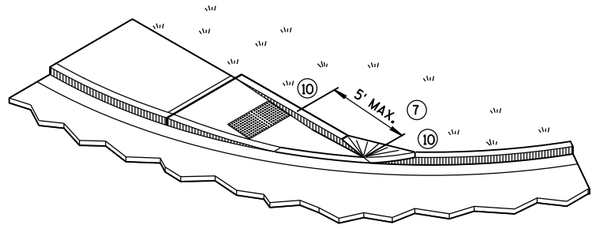
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

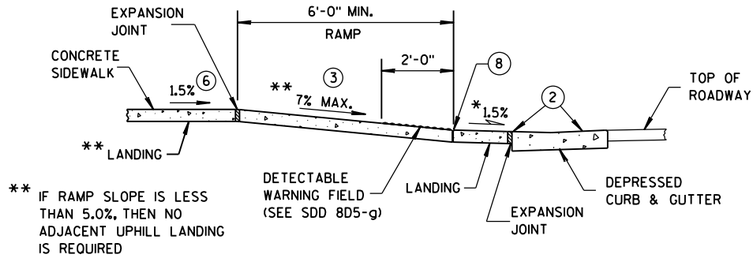
(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



ISOMETRIC VIEW FOR TYPE 4A

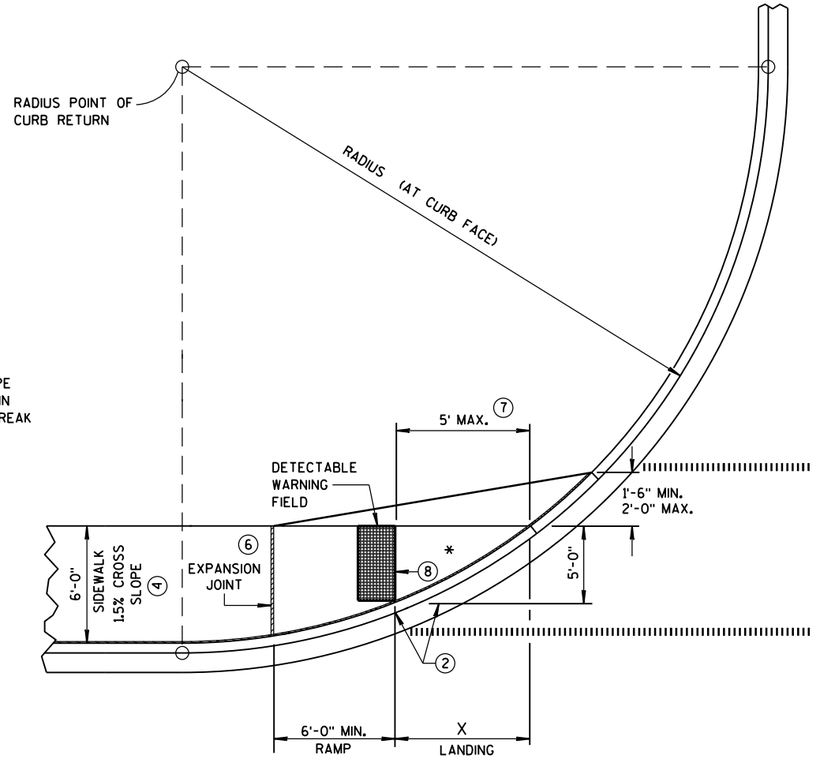
SECTION C-C FOR TYPE 4A



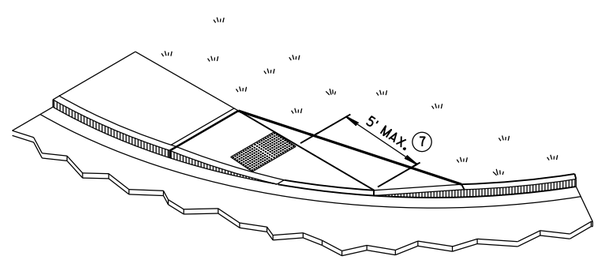
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

SECTION B-B FOR TYPE 4A

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



CURB RAMP TYPE 4A1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4A1

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

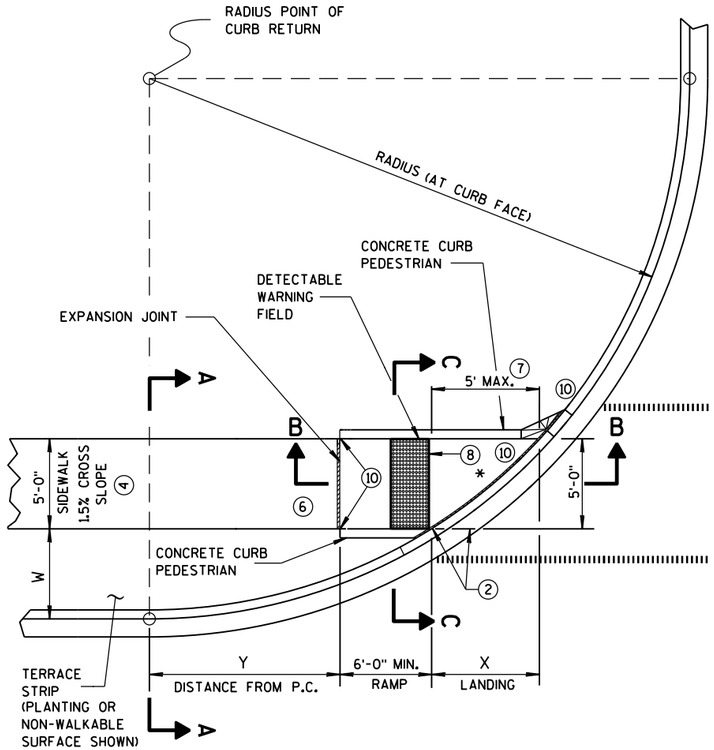
PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 4A AND 4A1

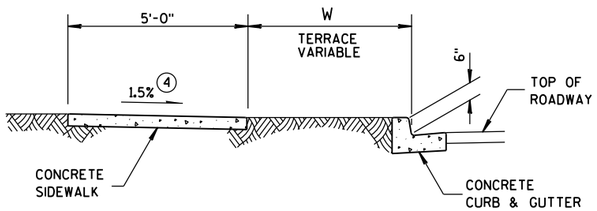
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

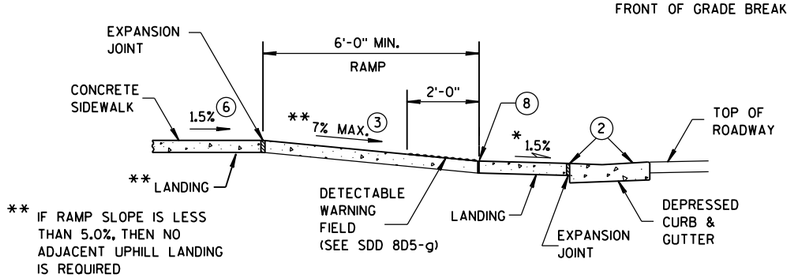
S.D.D. 8 D 5-19c



CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



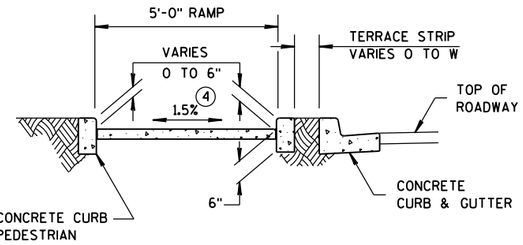
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

SECTION B-B FOR TYPE 4B

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"		W = 8'-0"		W = 9'-0"		W = 10'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2'-10¼"	0'-5"	2'-1"	1'-4½"	1'-5"	2'-1"	0'-10"	2'-7½"	0'-3¼"	3'-0¼"						
15 FEET	4'-6¾"	2'-1¾"	3'-9"	3'-5¼"	3'-1¼"	4'-6"	2'-6¾"	5'-4½"	2'-1"	6'-1"	1'-8"	6'-8½"	1'-3¼"	7'-2½"	0'-10¾"	7'-7¼"
20 FEET	5'-9¾"	3'-6½"	4'-11½"	5'-1¾"	4'-3¼"	6'-5½"	3'-8¾"	7'-7"	3'-3"	8'-6½"	2'-10"	9'-4½"	2'-5½"	10'-1¼"	2'-1¼"	10'-9"
30 FEET			6'-9¼"	7'-11¼"	6'-0¼"	9'-8"	5'-5"	11'-1¾"	4'-10¾"	12'-5¾"	4'-5½"	13'-7¾"	4'-0¾"	14'-8½"	3'-8½"	15'-8¼"
40 FEET									6'-1¾"	15'-8½"	5'-8"	17'-2"	5'-3"	18'-5¾"	4'-10¾"	19'-8¼"
50 FEET															5'-10¼"	23'-2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH



SECTION C-C FOR TYPE 4B

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

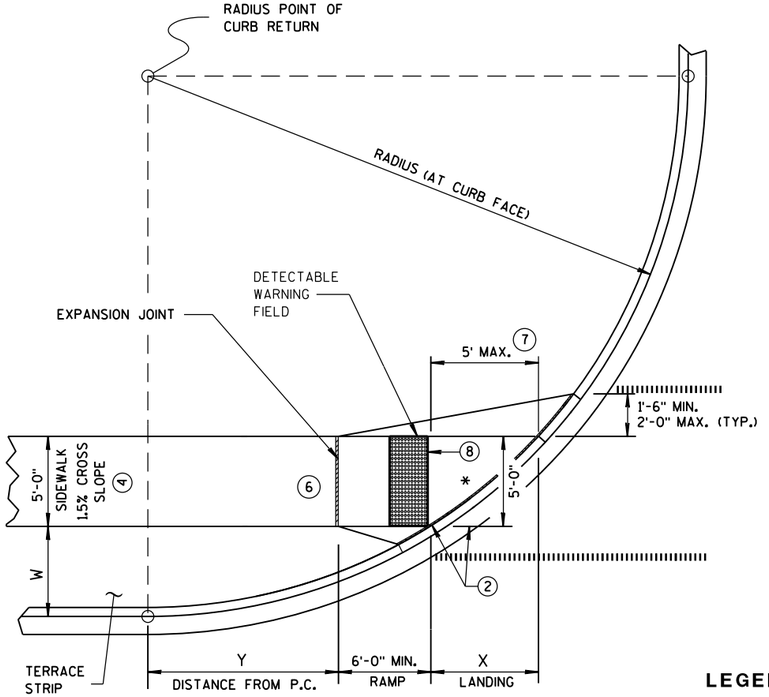
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

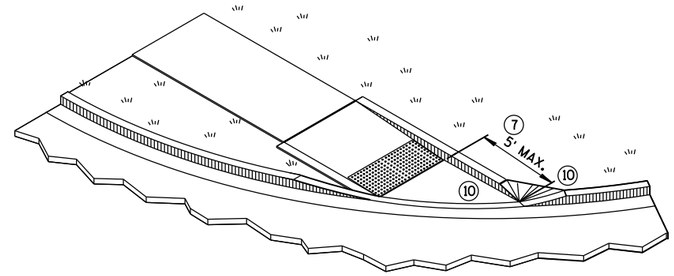
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

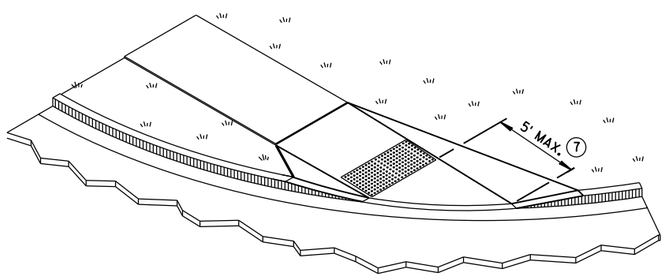
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



CURB RAMP TYPE 4B1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

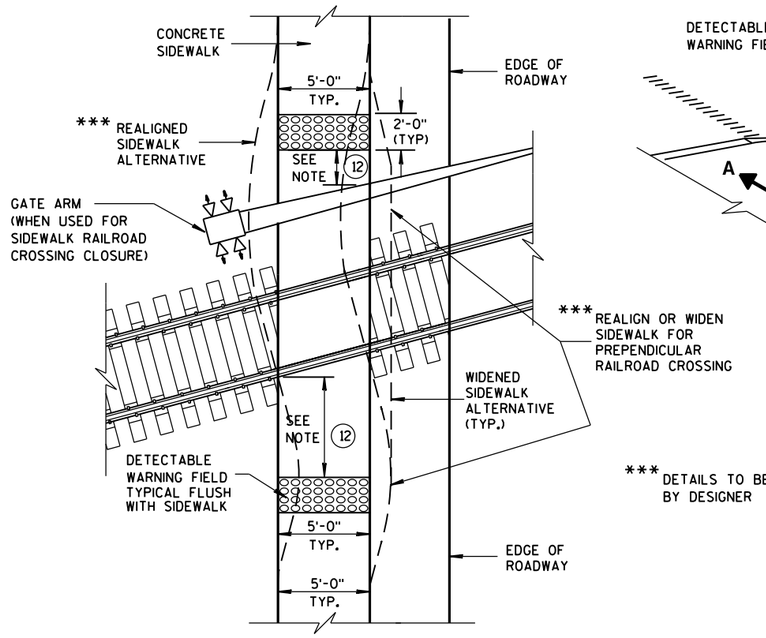
PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

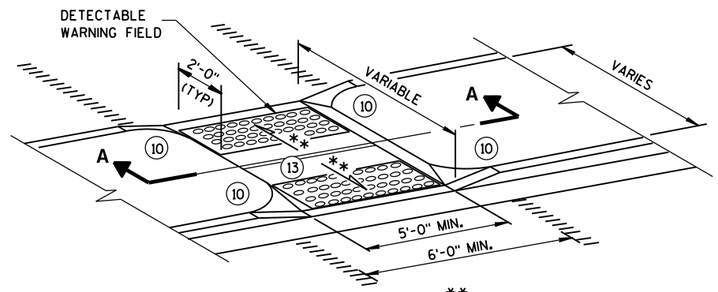
6

S.D.D. 8 D 5-19d



*** DETAILS TO BE DETERMINED BY DESIGNER

TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING



** 1% MIN. (PROVIDE DRAINAGE)

MEDIAN ISLAND
NON-ELEVATED PEDESTRIAN CROSSING
TYPE 5

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

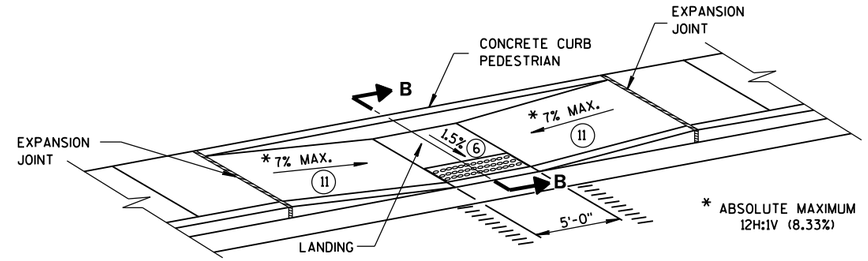
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

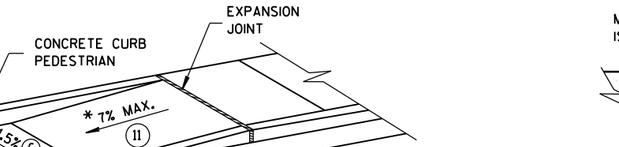
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

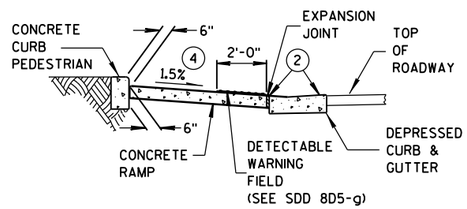
(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STREET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2-FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.



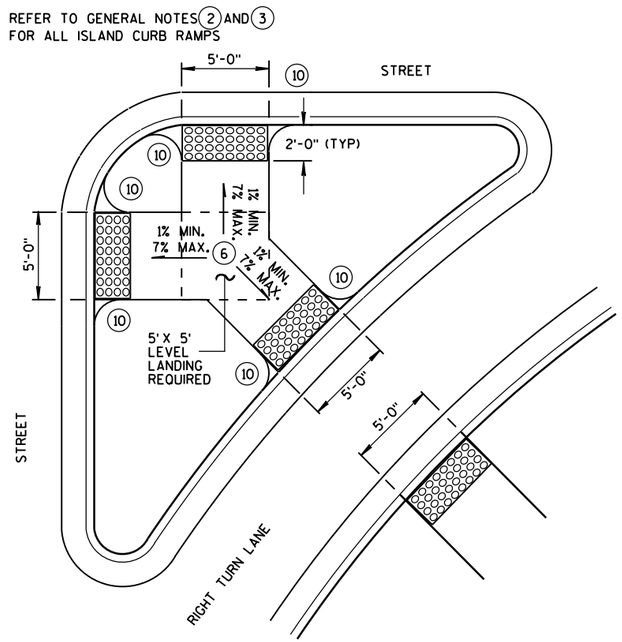
MID-BLOCK CROSSING
TYPE 7A



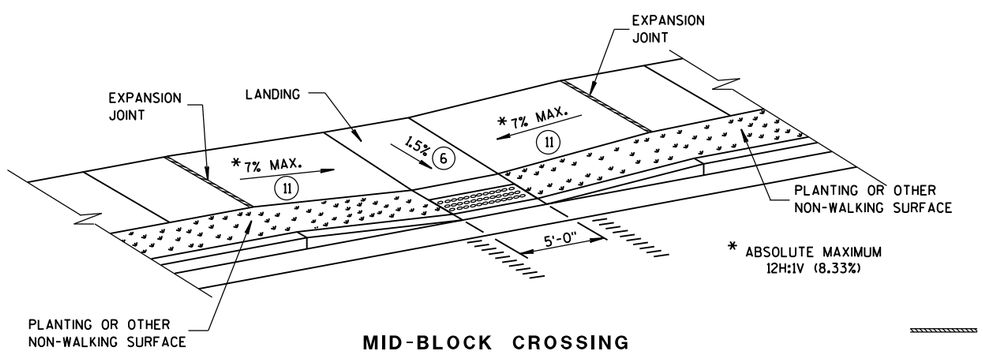
SECTION A-A



SECTION B-B



TYPE 6
DETECTABLE WARNING AT ISLANDS



MID-BLOCK CROSSING
TYPE 7B

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

LEGEND

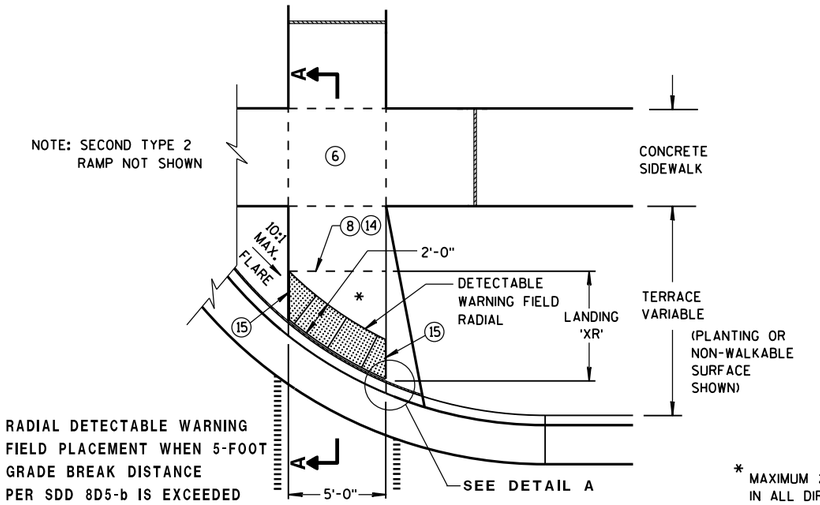
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

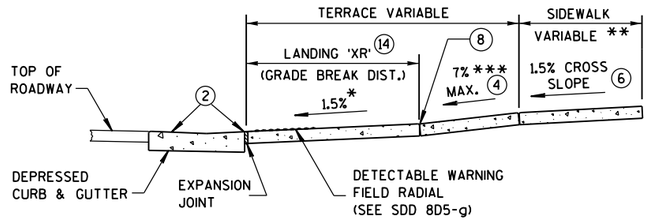
6

S.D.D. 8 D 5-19e



TYPE 2 RAMP
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)
(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION A-A

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS (DWFs) THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

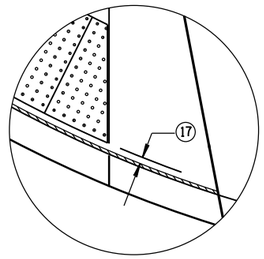
(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION 'XR') REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

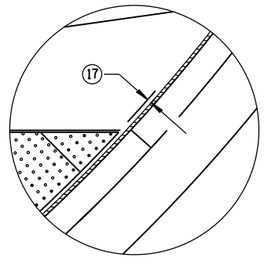
(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1'X 2' RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2'-0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

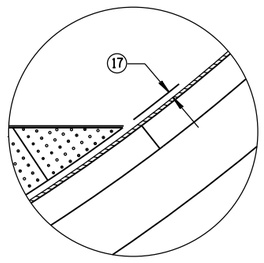
(17) A MAXIMUM 3-INCH CONCRETE BORDER WIDTH IS ALLOWABLE IN FRONT OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.



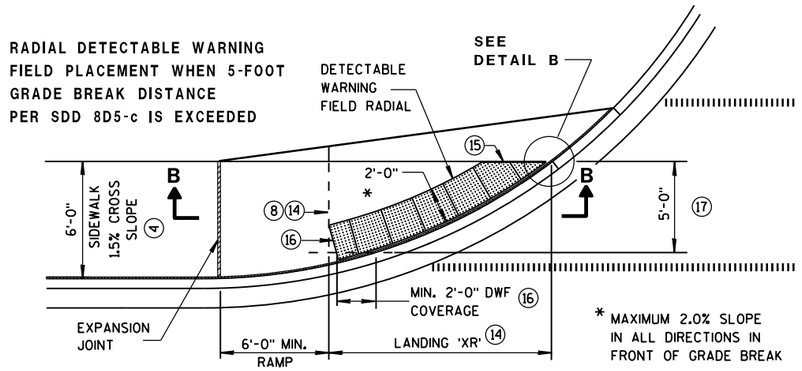
DETAIL A



DETAIL C

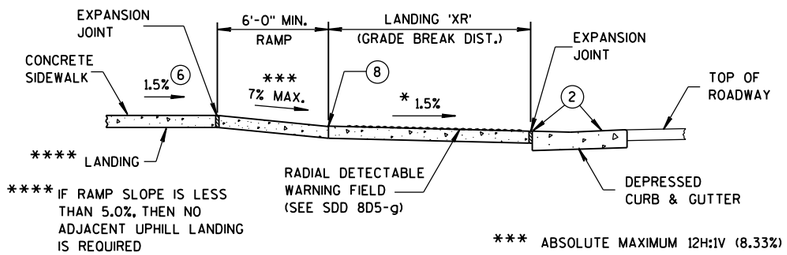


DETAIL B



* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

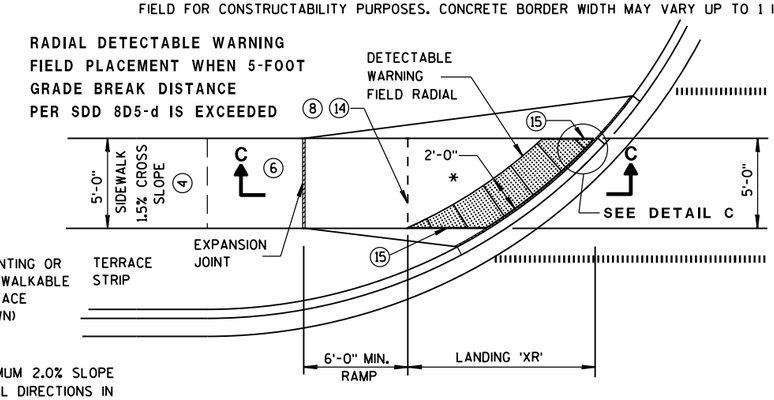
CURB RAMP TYPE 4A1
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

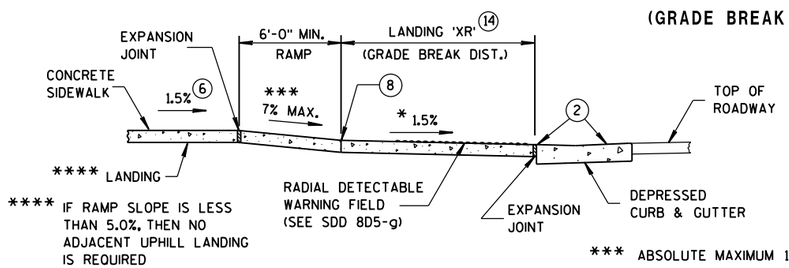
*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION B-B FOR TYPE 4A1



* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

CURB RAMP TYPE 4B1
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION C-C FOR TYPE 4B1

CURB RAMPS
RADIAL DETECTABLE WARNING FIELD APPLICATIONS

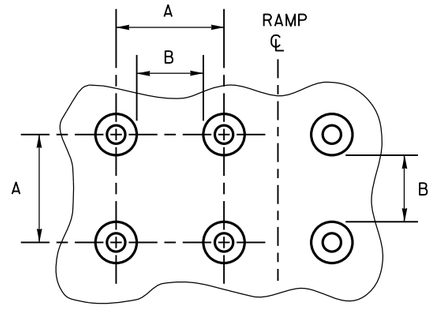
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

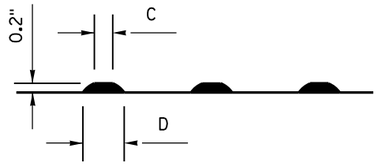
S.D.D. 8 D 5-19f

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES

DETECTABLE WARNING PATTERN DETAIL

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.

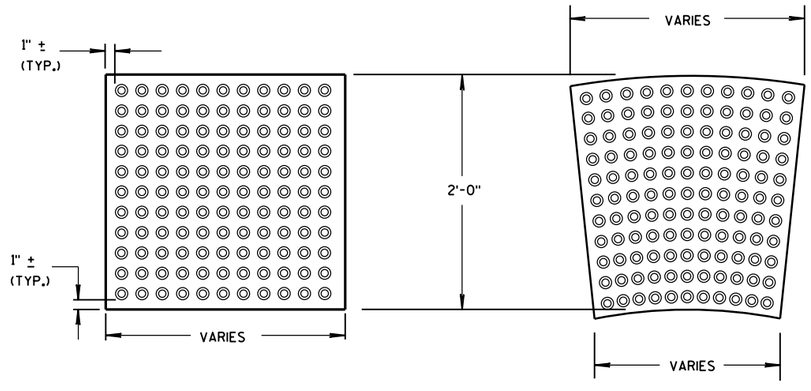
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGES IN COMBINATION WITH SQUARE PANELS ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

⑮ FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

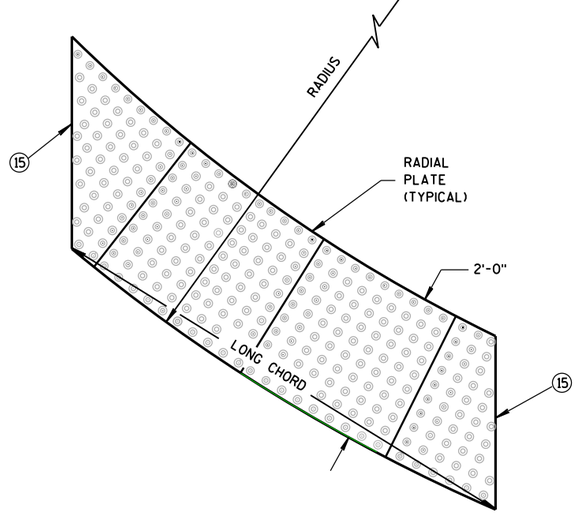


RECTANGULAR PLATES

RADIAL PLATES

DETECTABLE WARNING FIELDS (TYPICAL)

PLAN VIEW



RADIAL DETECTABLE WARNING FIELD ATTRIBUTES

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June, 2017 — DATE

/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERV

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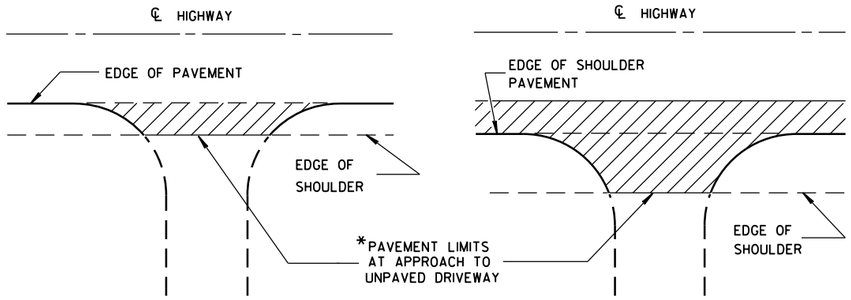
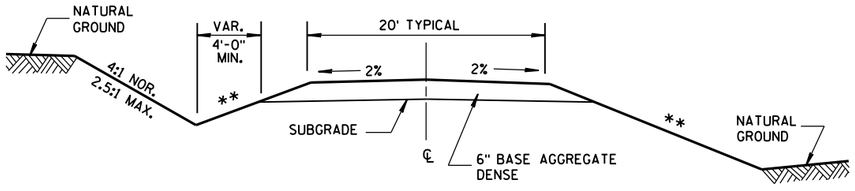


*WHERE DRIVEWAY IS PAVED, APPROACH PAVEMENT SHOULD BE EXTENDED TO MATCH DRIVEWAY PAVEMENT.

PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

RURAL DRIVEWAY INTERSECTION DETAIL
(NO CURB & GUTTER OR SIDEWALK)

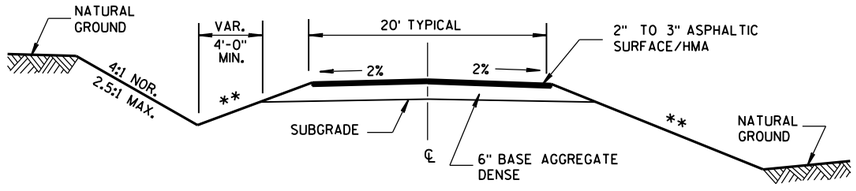


IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE AGGREGATE SURFACE

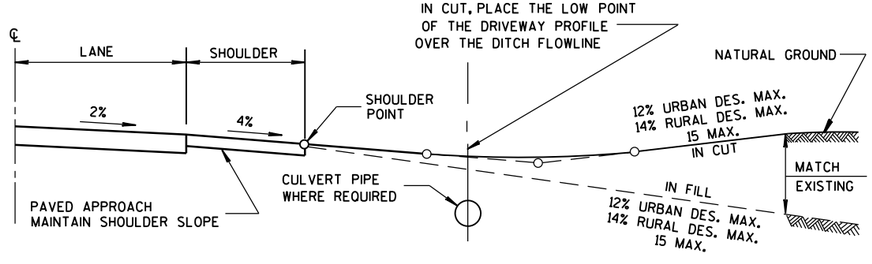
** SLOPE CAN VARY WITH SPEED. SEE 11-45-2.6.2.

POSTED SPEED MPH	MAX. SLOPE
<35	4:1
≥35 TO <60	6:1
≥60	10:1



IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE



TYPICAL DRIVEWAY PROFILES

DRIVEWAYS WITHOUT CURB & GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December, 2016 /S/ Rodney Taylor
DATE ROADWAY STANDARDS UNIT SUPERV
FHWA

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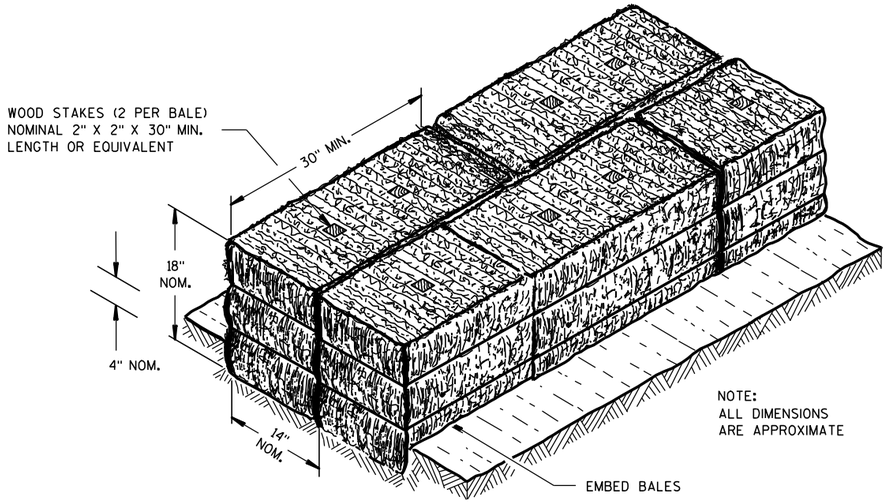
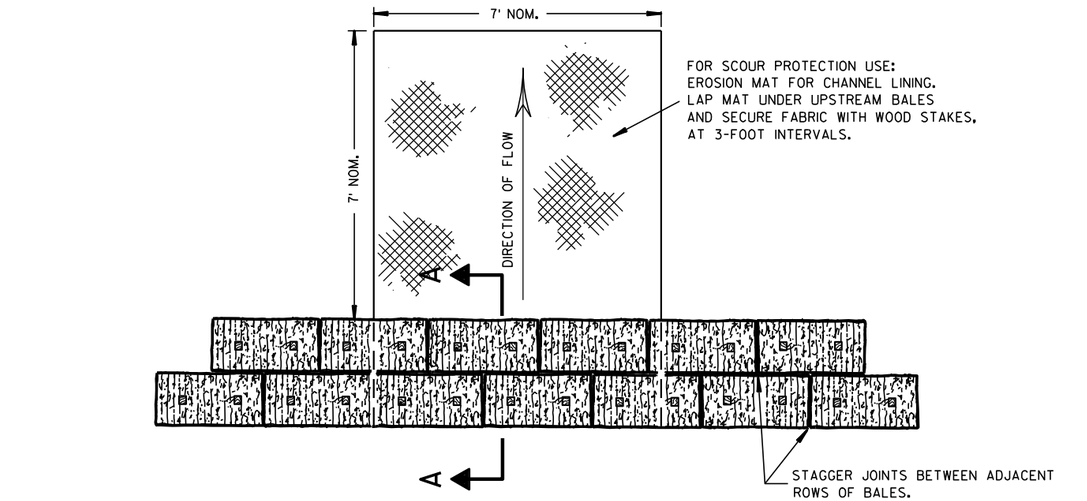
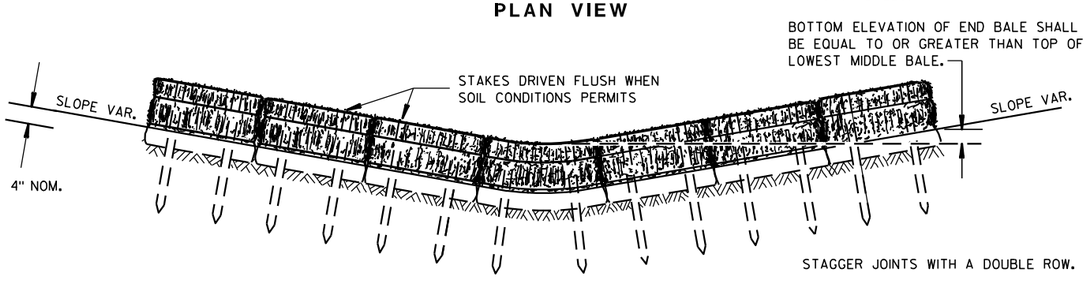


SECTION A-A



PLAN VIEW



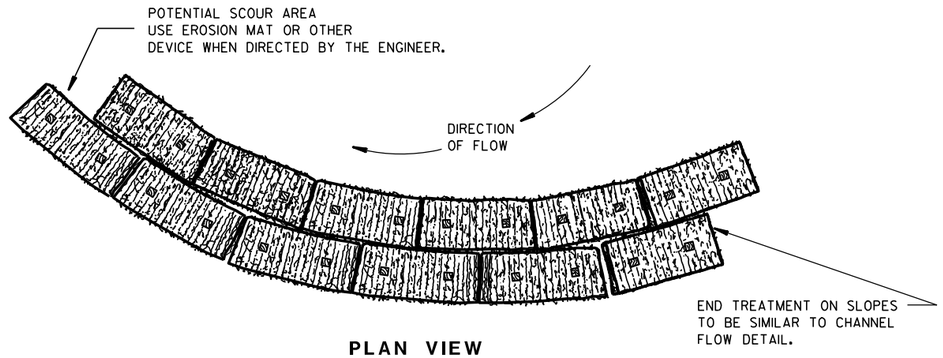
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

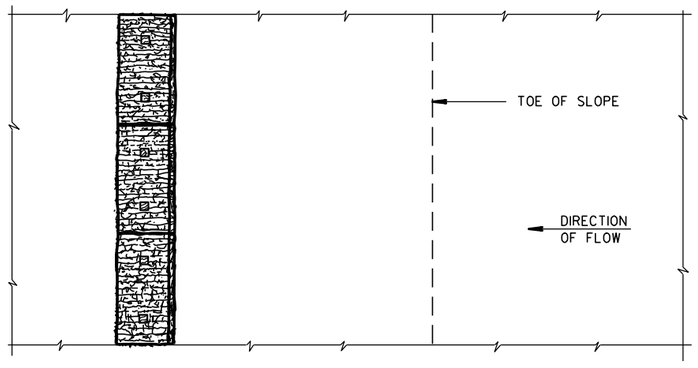
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(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.

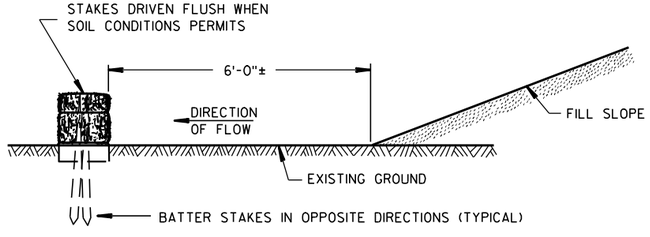


PLAN VIEW

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

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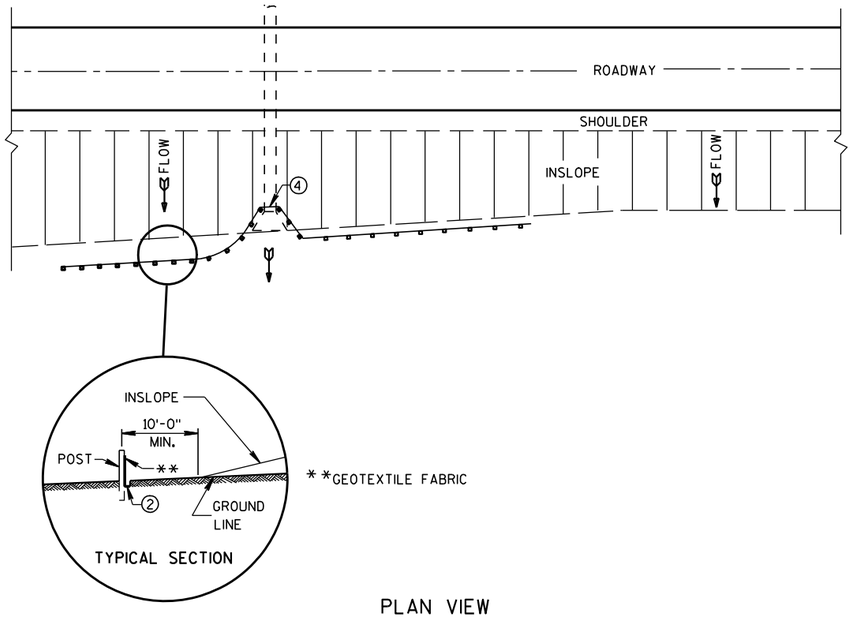
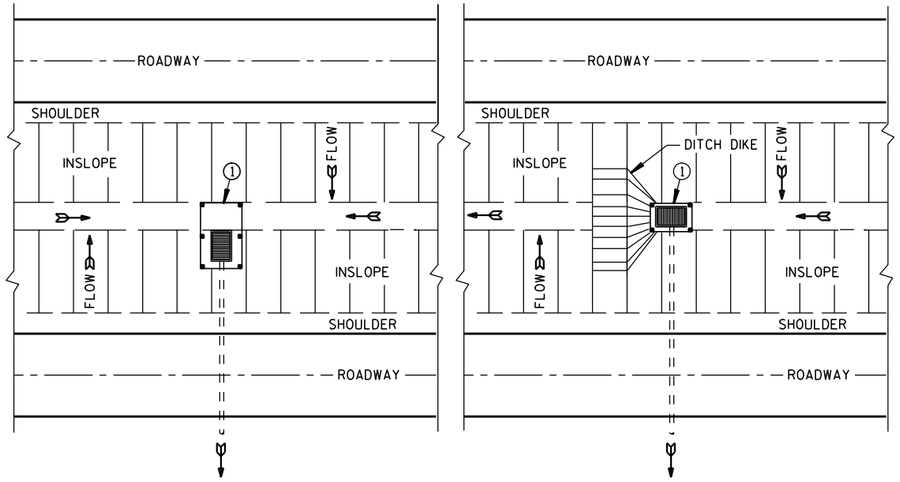
S.D.D. 8 E 8-3



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.

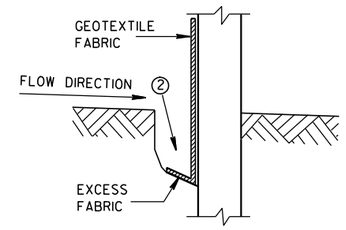
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

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.

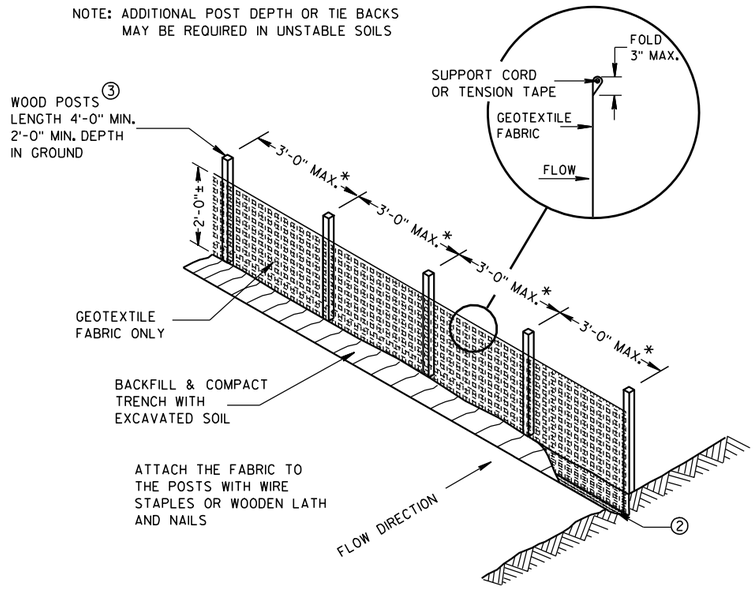
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

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

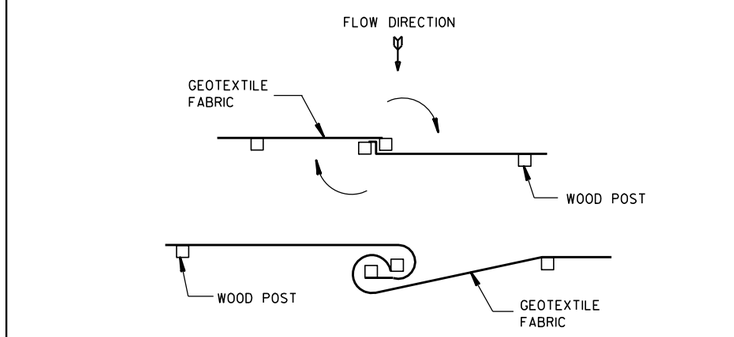
⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



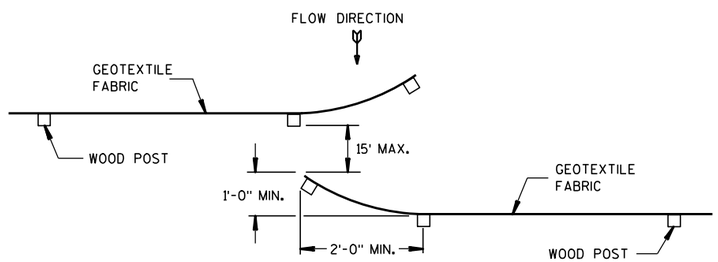
TRENCH DETAIL



SILT FENCE

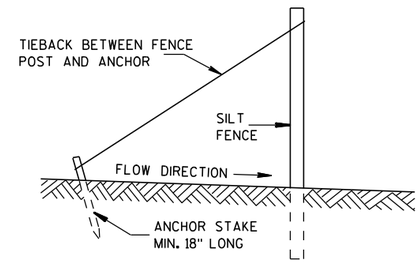


TWIST METHOD



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

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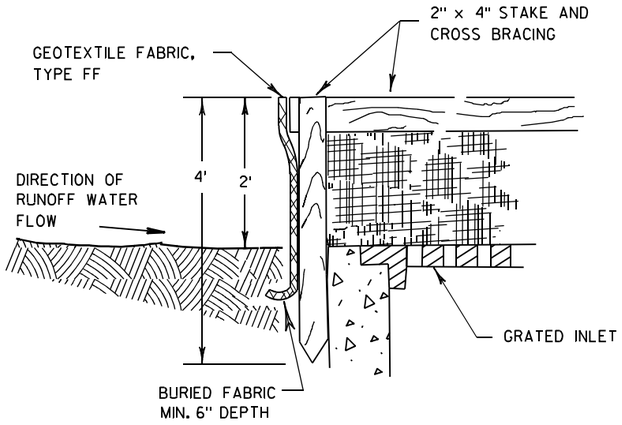
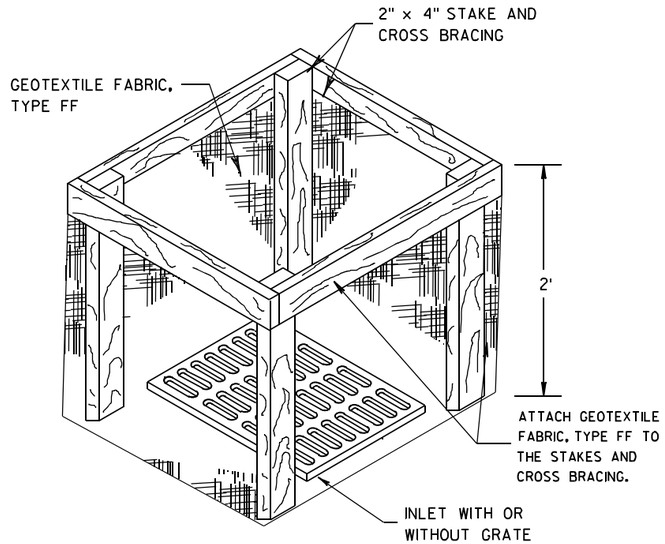
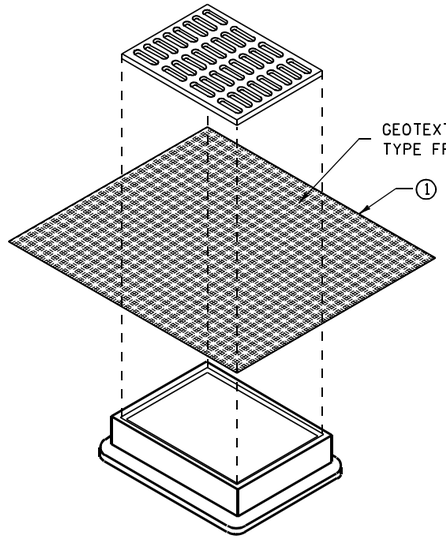


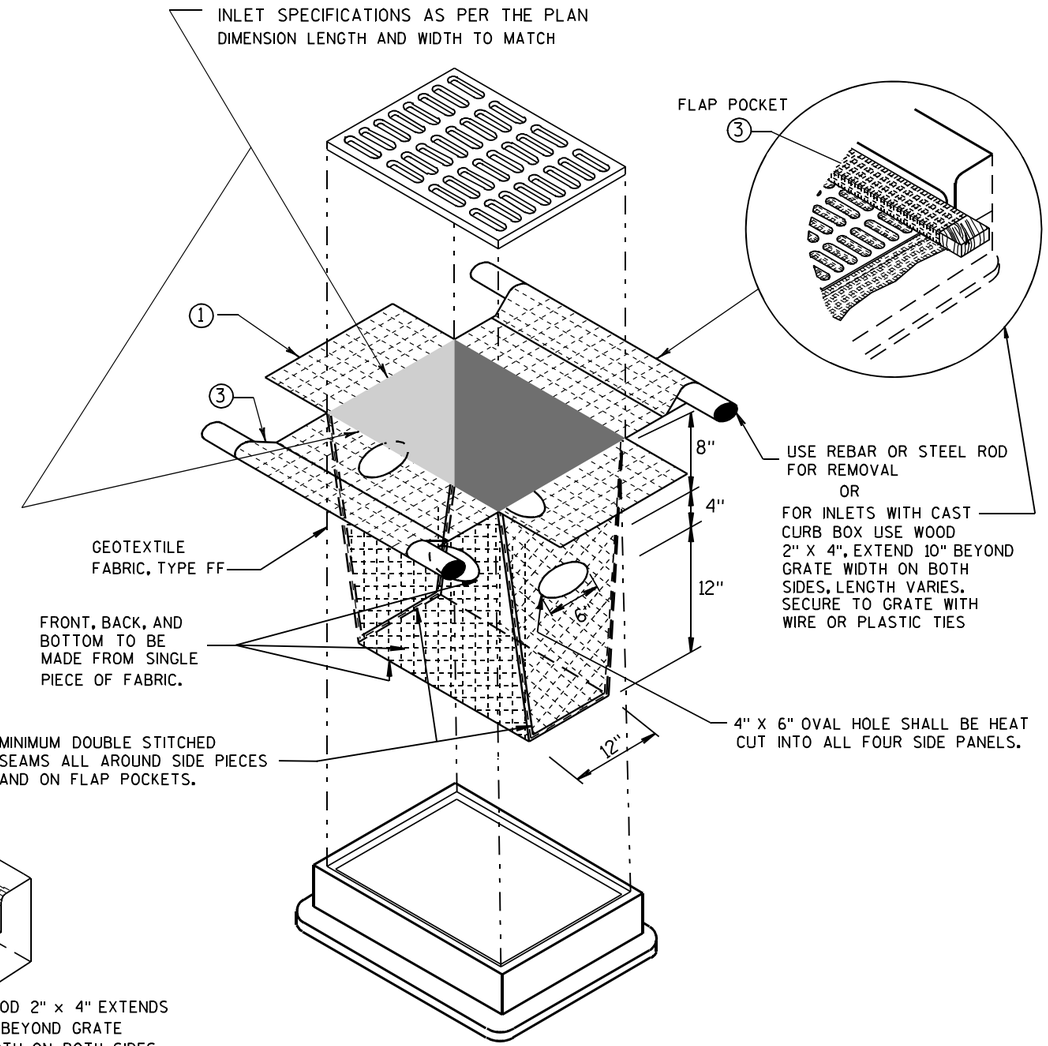


INLET PROTECTION, TYPE A



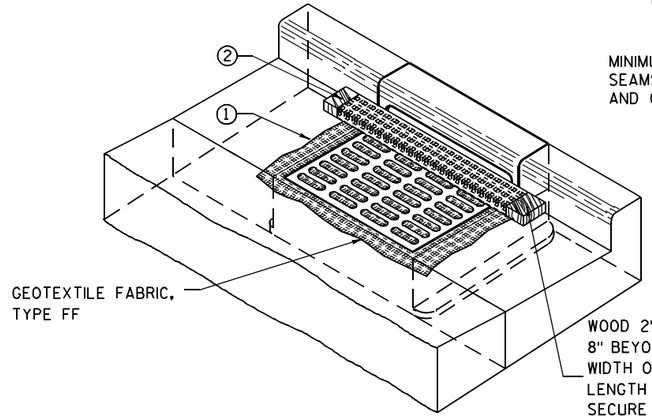
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

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



INLET PROTECTION, TYPE D

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



INLET PROTECTION, TYPE C (WITH CURB BOX)

GENERAL NOTES

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

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

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

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

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

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

TYPE D

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

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

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

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

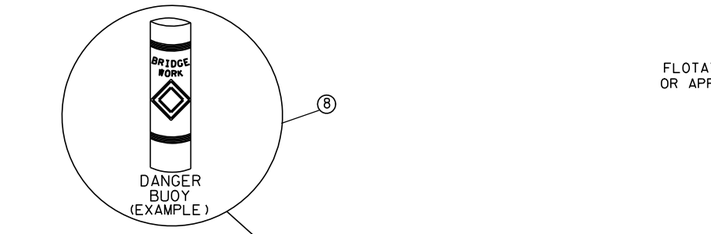
FHWA

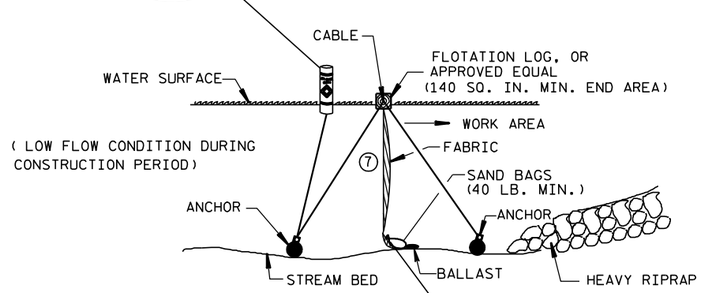
6

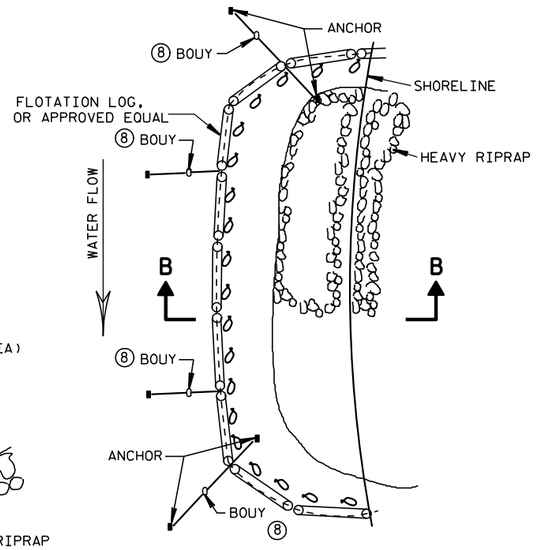
S.D.D. 8 E 10-2

6

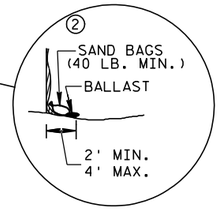
S.D.D. 8 E 10-2



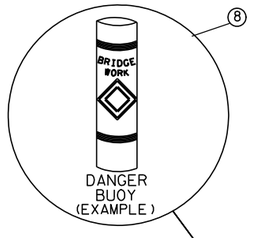


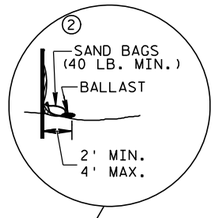


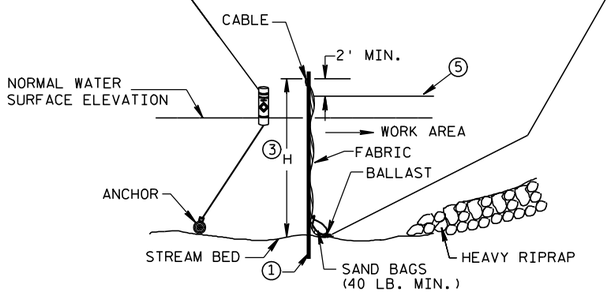
SECTION B-B



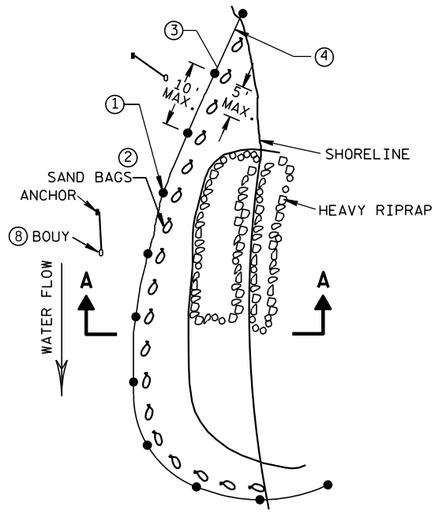
TURBIDITY BARRIER FLOAT ALTERNATIVE
CAUTION - SEE NOTE 6







SECTION A-A



PLAN VIEW

TURBIDITY BARRIER STANDARD POST INSTALLATION

TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

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

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

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

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

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

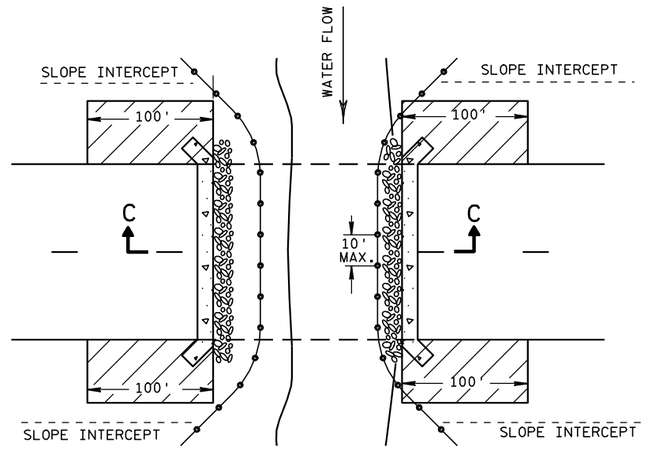
④ IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.

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

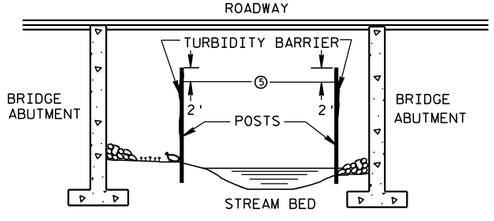
⑥ FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BED ROCK PREVENTS THE INSTALLATION OF POSTS.

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

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



PLAN VIEW



SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

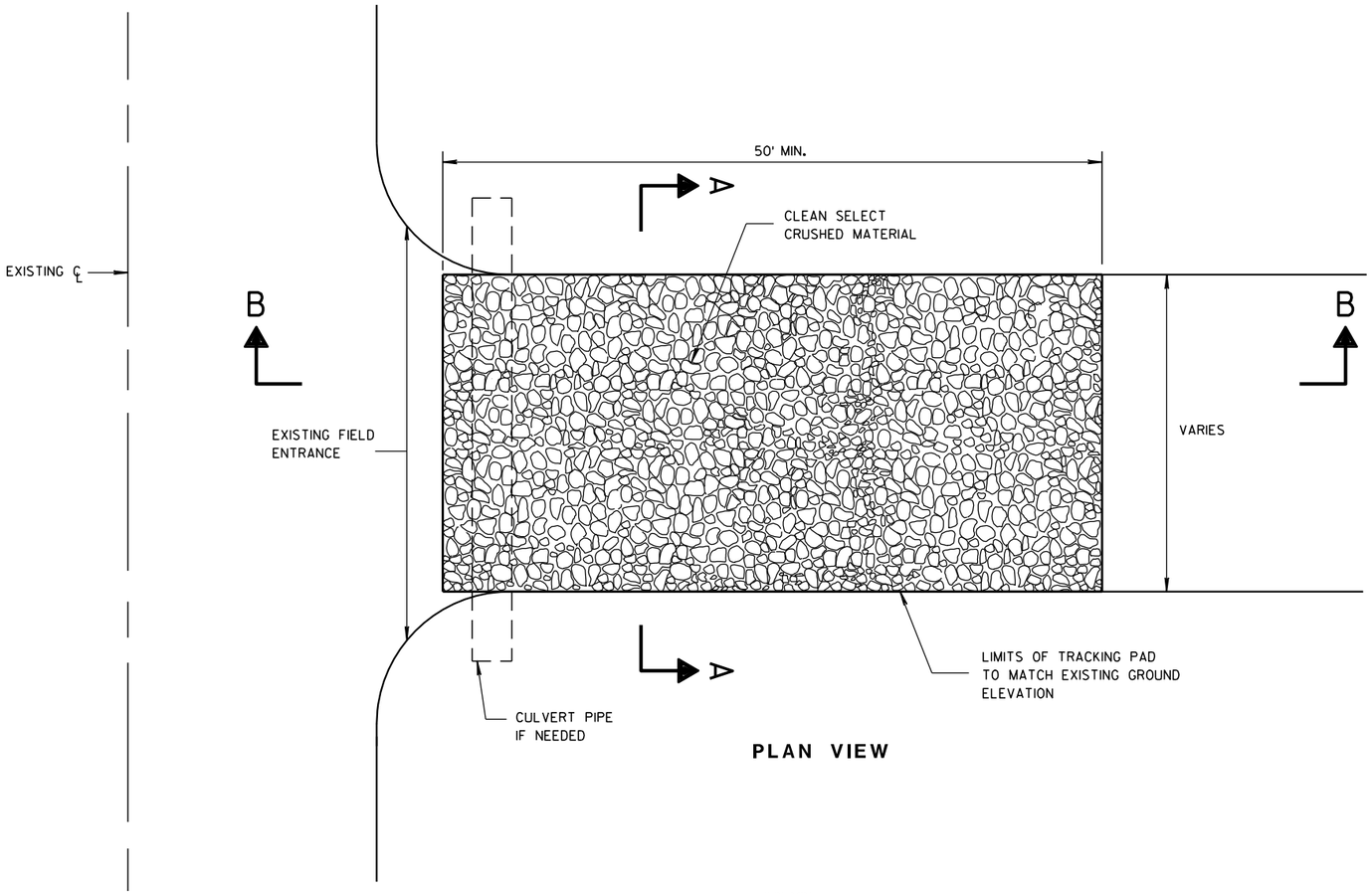
TURBIDITY BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

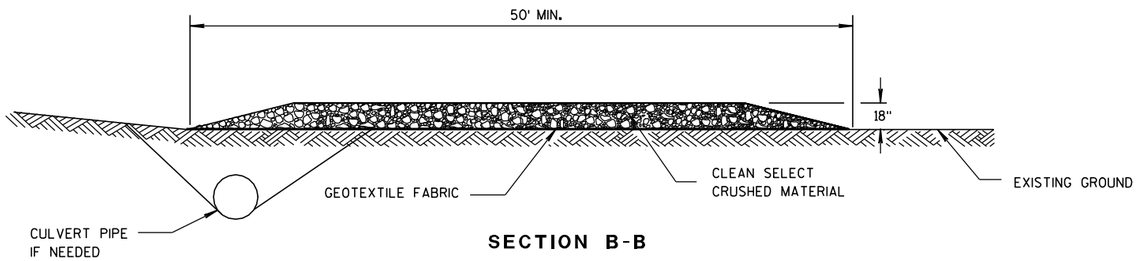
APPROVED
6/04/02 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 11-2



PLAN VIEW



SECTION B-B

GENERAL NOTES

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

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

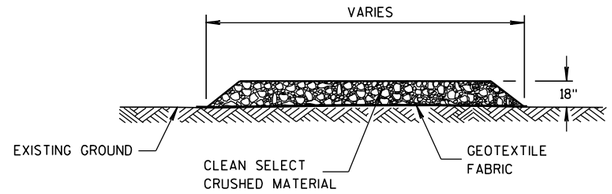
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

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

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

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

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



SECTION A-A

TRACKING PAD

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/24/2011	/S/ Jerry H. Zona	
DATE	ROADWAY STANDARDS ENGINEER	ENT

FHWA

S.D.D. 8 E 14-1

METAL APRON ENDWALLS

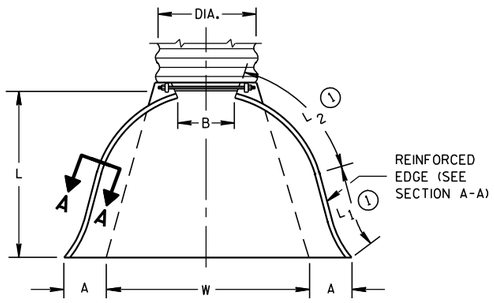
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	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

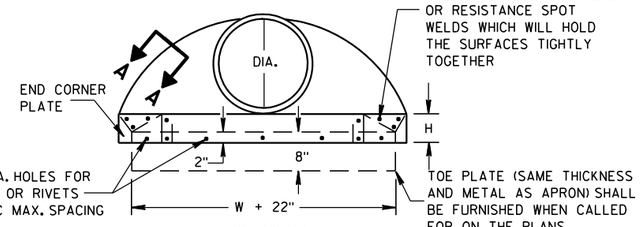
REINFORCED CONCRETE APRON ENDWALLS

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



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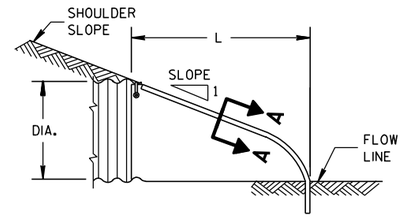
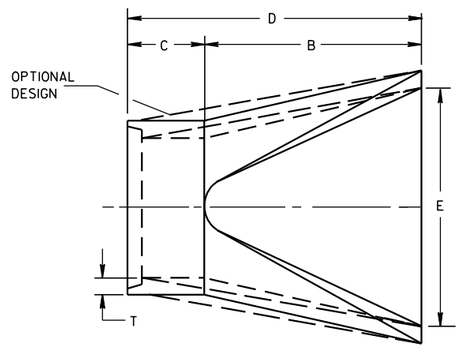
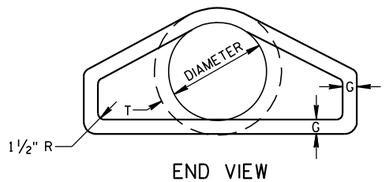


SIDE ELEVATION

METAL ENDWALLS



PLAN



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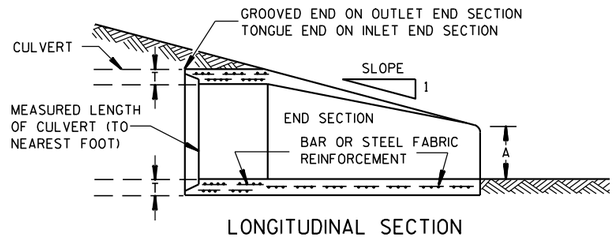
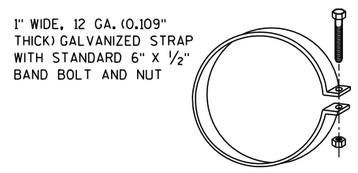


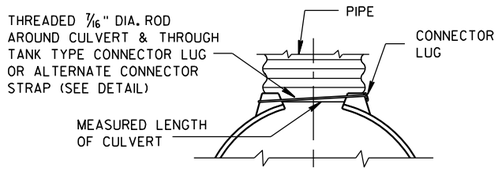
LONGITUDINAL SECTION

CONCRETE ENDWALLS

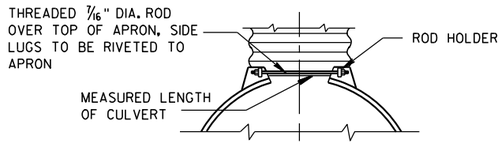


ALTERNATE FOR TYPE 1 CONNECTION

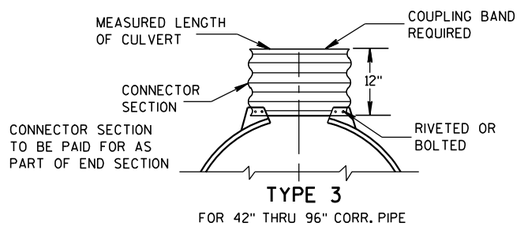
END SECTION CONNECTOR STRAP



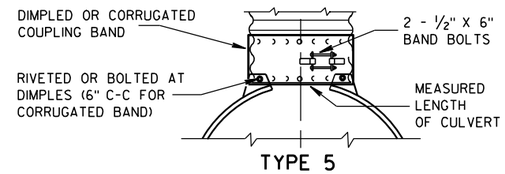
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

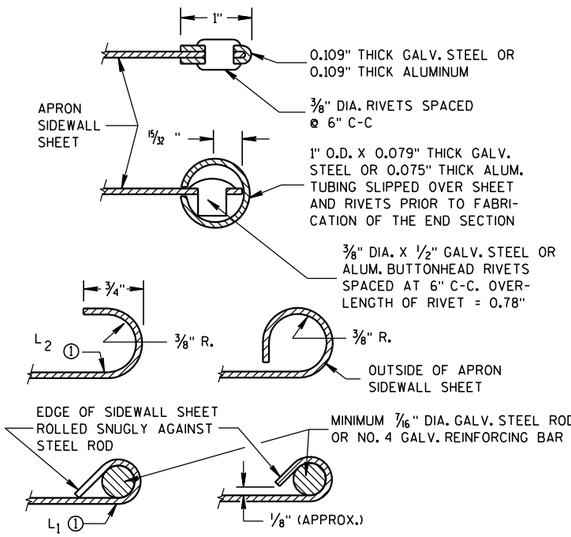
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

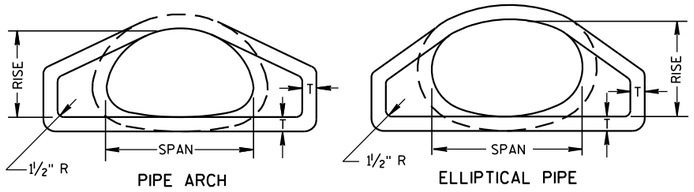
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

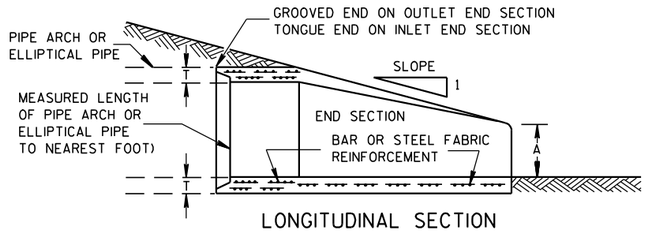
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

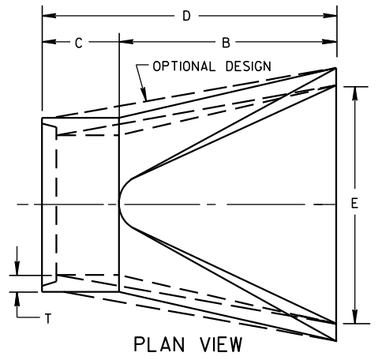
6
S.D.D. 8 F 1-11



END VIEW

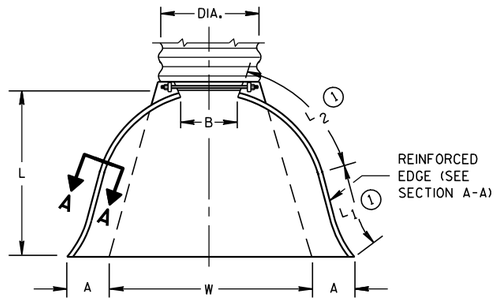


LONGITUDINAL SECTION

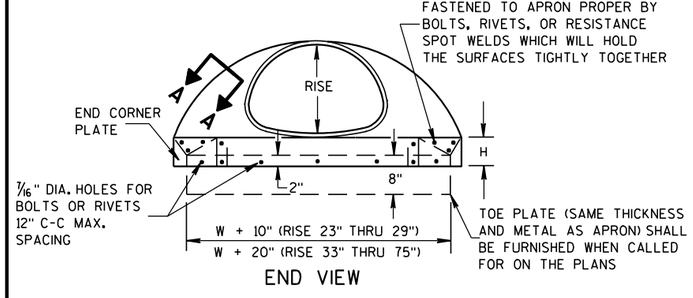


PLAN VIEW

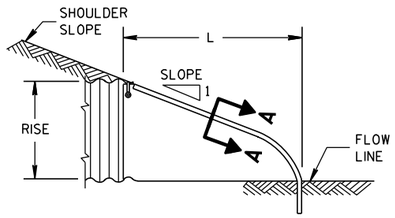
CONCRETE ENDWALLS



PLAN VIEW

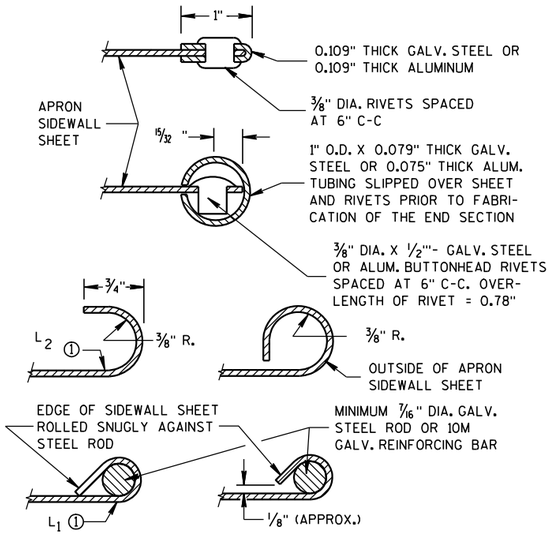


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	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
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	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
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

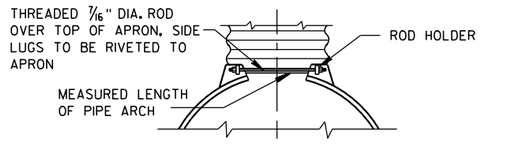
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

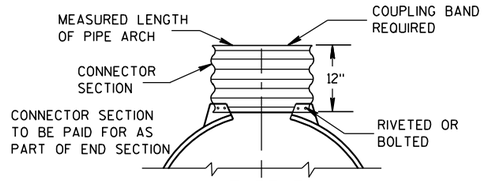
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



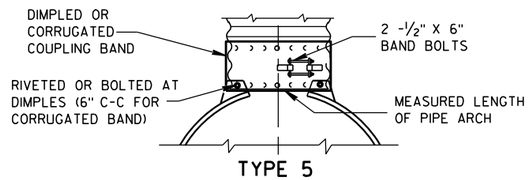
TYPE 2

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



TYPE 3

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



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

GENERAL NOTES

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

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

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

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

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

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

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

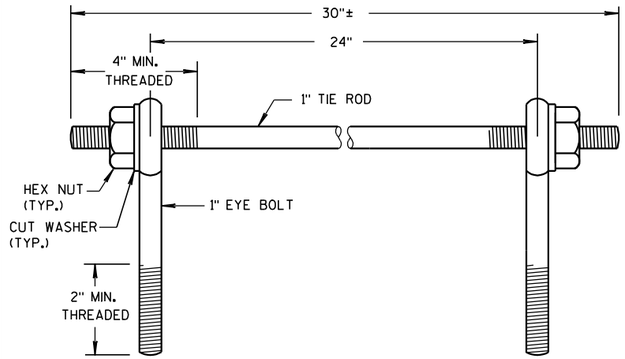
FHWA

6

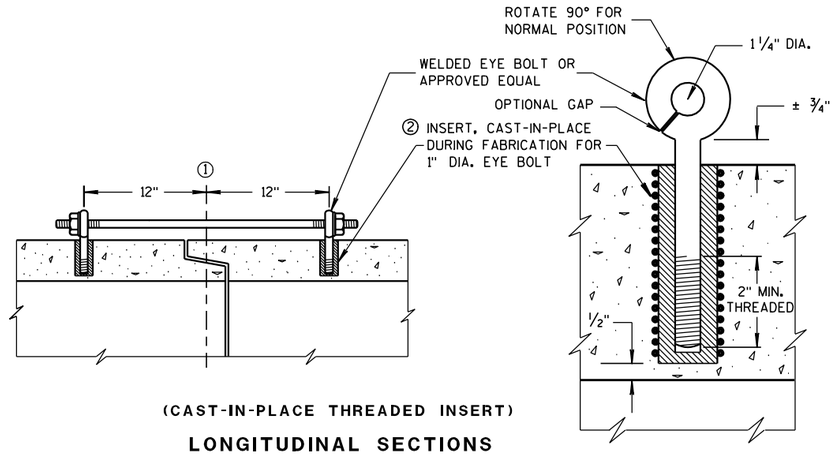
S.D.D. 8 F 2-1

6

S.D.D. 8 F 2-1



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

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

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

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

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

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

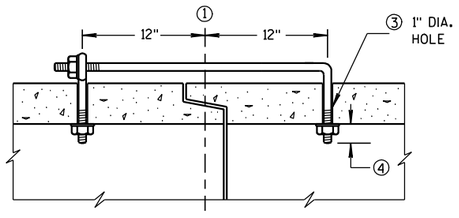
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

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

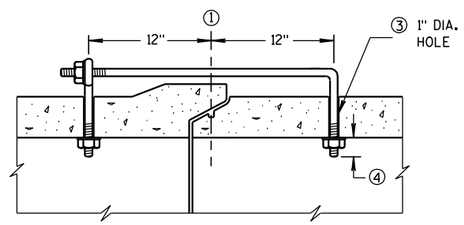
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

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



(TONGUE & GROOVE PIPE)

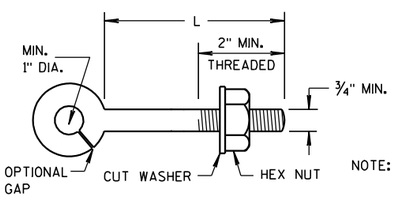


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

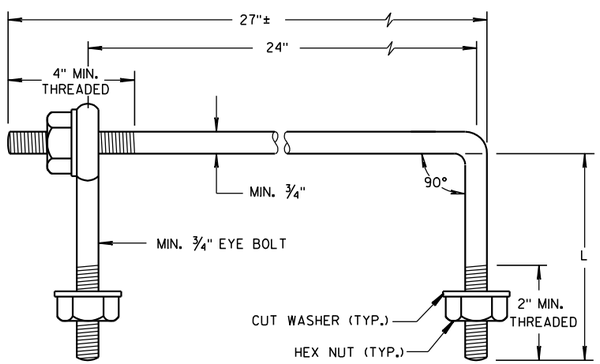
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

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



EYE BOLT AND TIE ROD

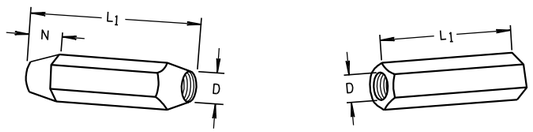
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

ADJUSTABLE TIE ROD TABLE

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

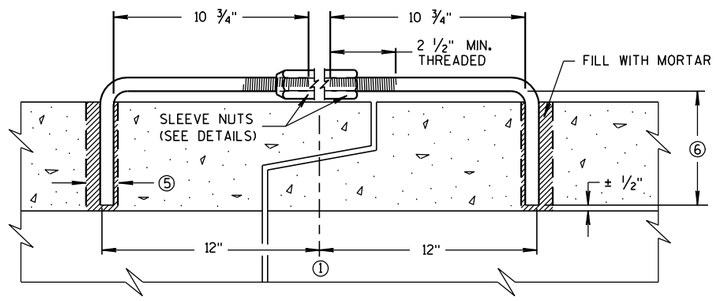
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

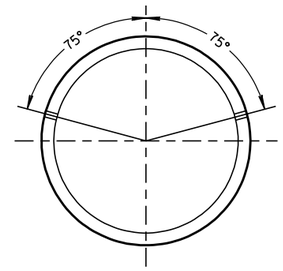
SLEEVE NUTS



LONGITUDINAL SECTION

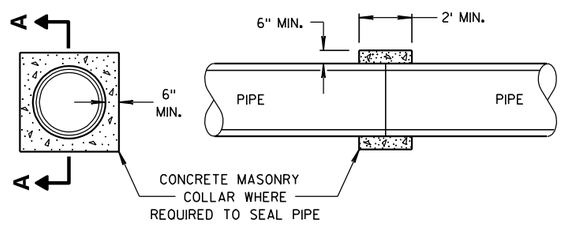
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



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

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

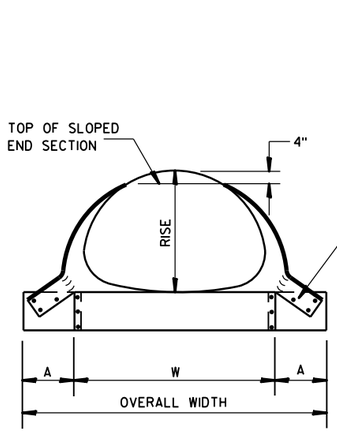
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

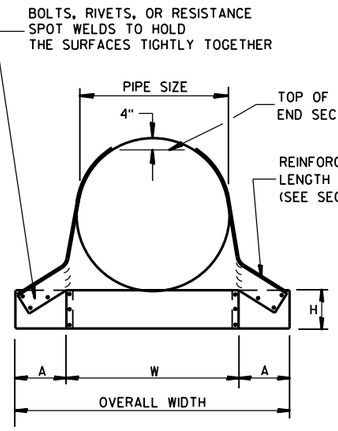
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
96
FHWA

6

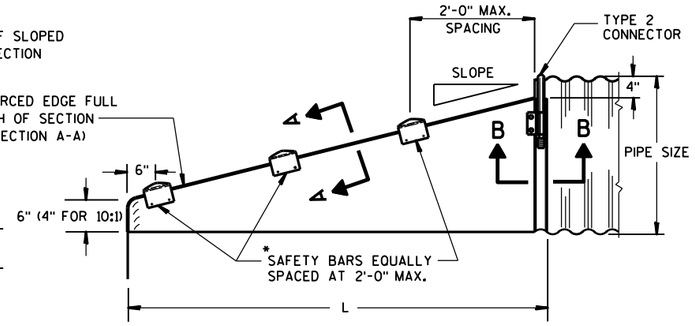
S.D.D. 8 F 4-7



FRONT VIEW



FRONT VIEW



SIDE VIEW

GENERAL NOTES

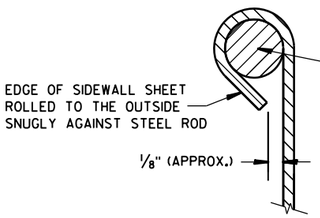
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SLOPED END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, SECTION 521 FOR STEEL APRON ENDWALLS.

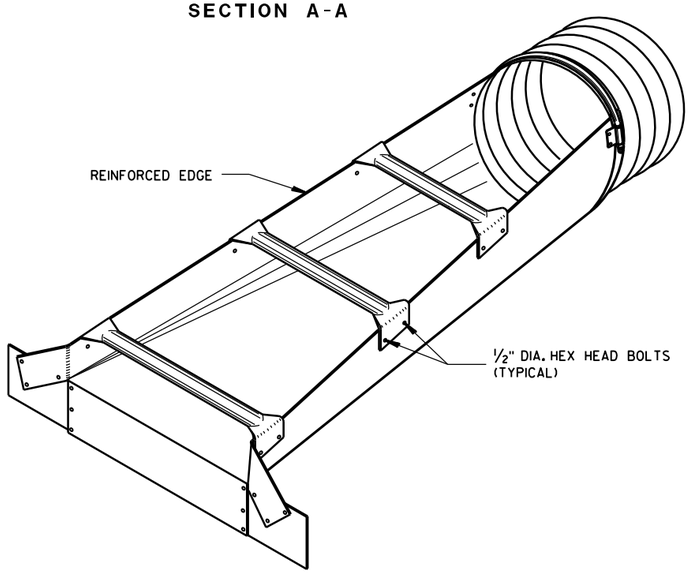
SAFETY BARS SHALL BE FABRICATED FROM GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL.

STEEL APRON ENDWALLS FOR CULVERT PIPE
SLOPED SIDE DRAINS

PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS					
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	4:1	20	6:1	30	10:1	70
18	.064	8	6	24	40	4:1	32	6:1	48	10:1	100
21	.064	8	6	27	43	4:1	44	6:1	66	10:1	130
24	.064	8	6	30	46	4:1	56	6:1	84	10:1	160
30	.109	12	9	36	60	4:1	80	6:1	120	10:1	220
36	.109	12	9	42	66	4:1	104	6:1	156	10:1	280
42	.109	16	12	48	80	4:1	128	6:1	192	——	——
48	.109	16	12	54	86	4:1	152	6:1	228	——	——
54	.109	16	12	60	92	4:1	176	6:1	264	——	——
60	.109	16	12	66	98	4:1	200	6:1	300	——	——



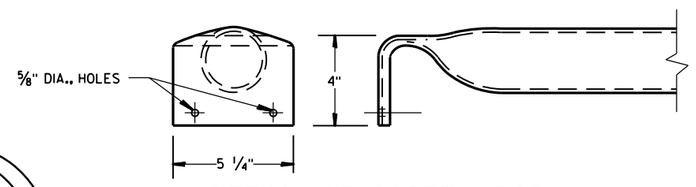
SECTION A-A



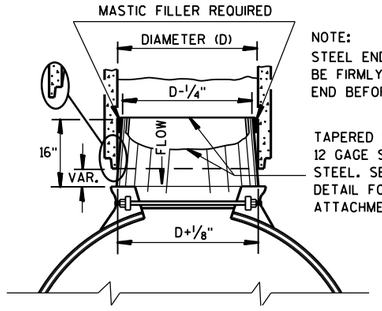
ISOMETRIC VIEW

*NOTE:
THREE SAFETY BARS ARE SHOWN. ACTUAL NUMBER OF BARS REQUIRED AT A 2'-0" C-C MAX. SPACING WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

3" GALVANIZED PIPE. FLATTEN ENDS, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.



DETAIL OF SAFETY BAR



NOTE:
STEEL END SECTION SHALL BE FIRMLY WEDGED INTO PIPE END BEFORE BACKFILLING

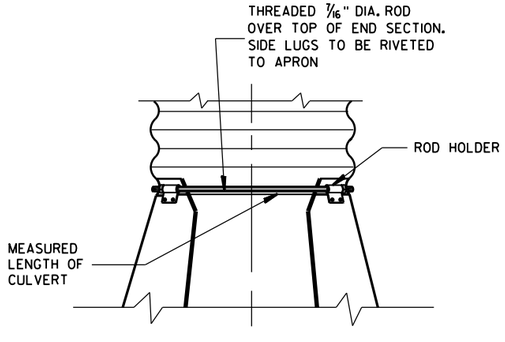
TAPERED SLEEVE TO BE 12 GAGE SMOOTH GALVANIZED STEEL. SEE SECTION B-B DETAIL FOR END SECTION ATTACHMENT.

STEEL ADAPTER SLEEVE FOR CONCRETE PIPE

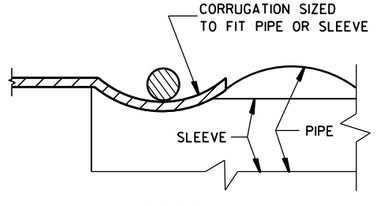
STEEL APRON ENDWALLS FOR PIPE ARCH
SLOPED SIDE DRAINS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) ①	DIMENSIONS (Inches) A	H	W	OVERALL WIDTH	L DIMENSIONS SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	17	13	.064 *	7	6	30	44	4:1	19	6:1	30	10:1 ②	70
18	21	15	.064 *	8	6	27	43	4:1	20	6:1	30	10:1	70
21	24	18	.064 *	8	6	30	46	4:1	32	6:1	48	10:1	100
24	28	20	.064 *	8	6	34	50	4:1	40	6:1	60	10:1	120
30	35	24	.079 *	12	9	41	65	4:1	56	6:1	84	10:1	160
36	42	29	.109 *	12	9	48	72	4:1	76	6:1	114	10:1	210
42	49	33	.109	16	12	55	87	4:1	92	6:1	138	——	——
48	57	38	.109	16	12	63	95	4:1	112	6:1	168	——	——
54	64	43	.109	16	12	70	102	4:1	132	6:1	198	——	——

① * MINIMUM THICKNESS OF ALL 10:1 SLOPED SIDE DRAINS IS 0.109".
② ACTUAL SLOPE GREATER THAN 10:1.



TYPE 2
CONNECTION DETAIL



SECTION B-B

STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

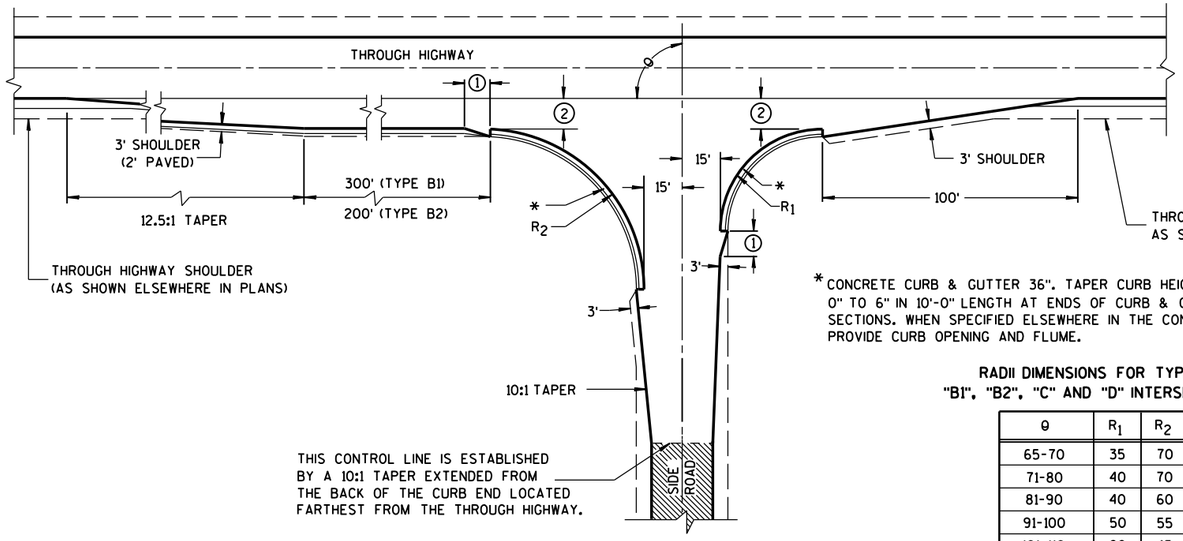
APPROVED
9/14/2012 DATE
/S/ Jerry H. Zoda
ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 8 F 7-5

6

S.D.D. 8 F 7-5

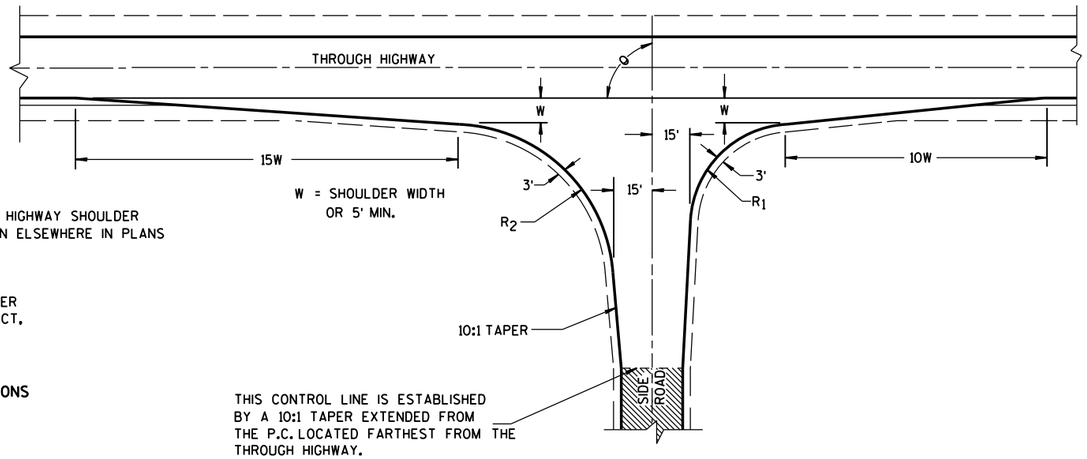


TYPE "B1" AND "B2"

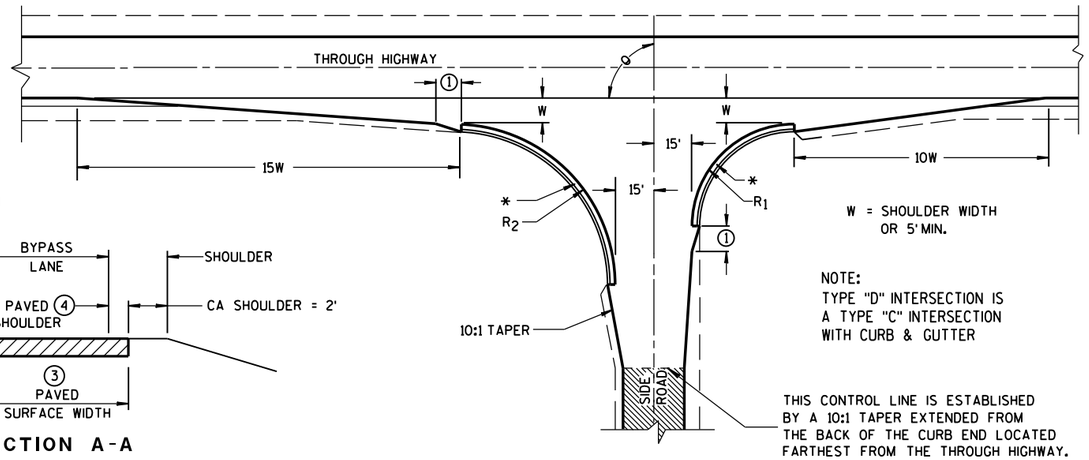
*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

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

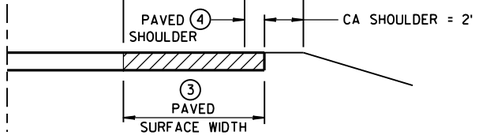
(1) 10-FT TYPICAL.

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

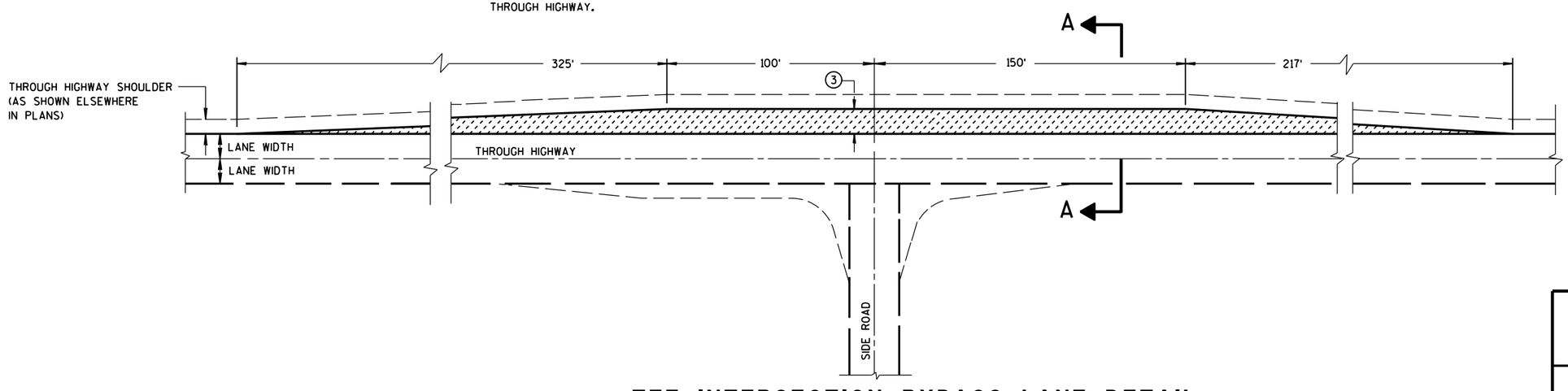
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(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)



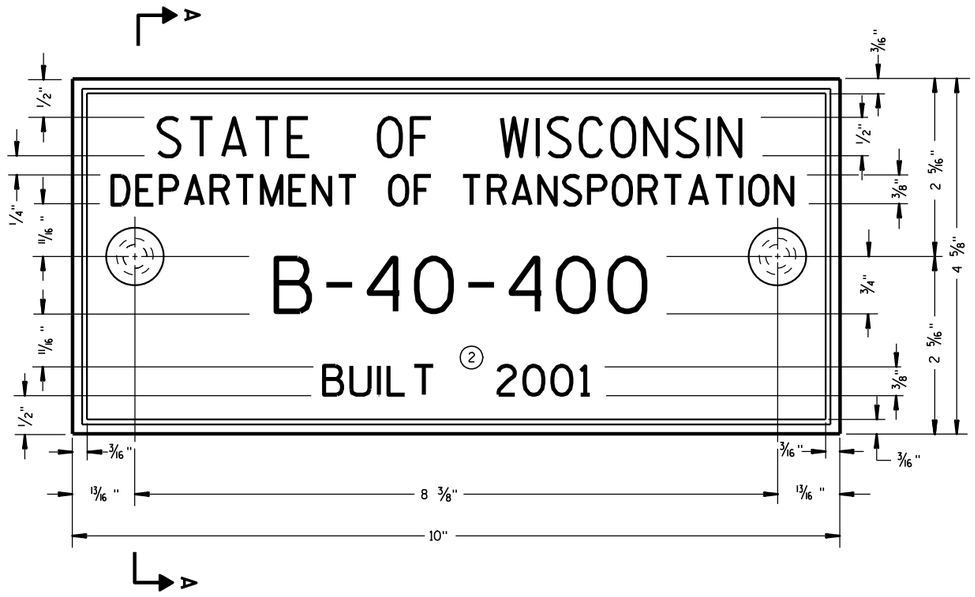
TEE INTERSECTION BYPASS LANE DETAIL

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

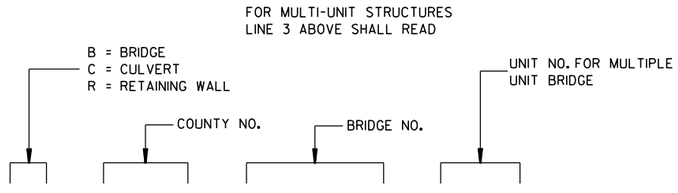
6

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



TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES

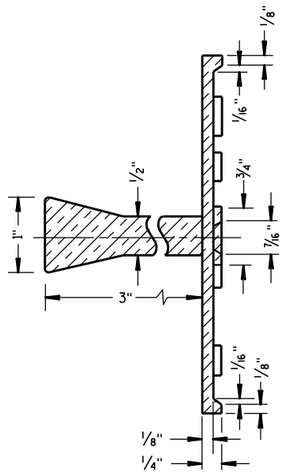
GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

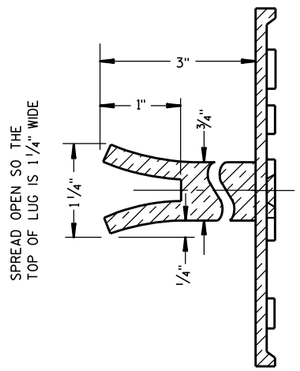
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

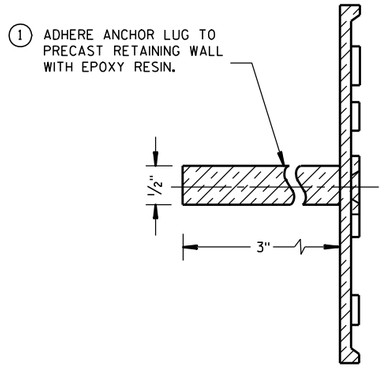
(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

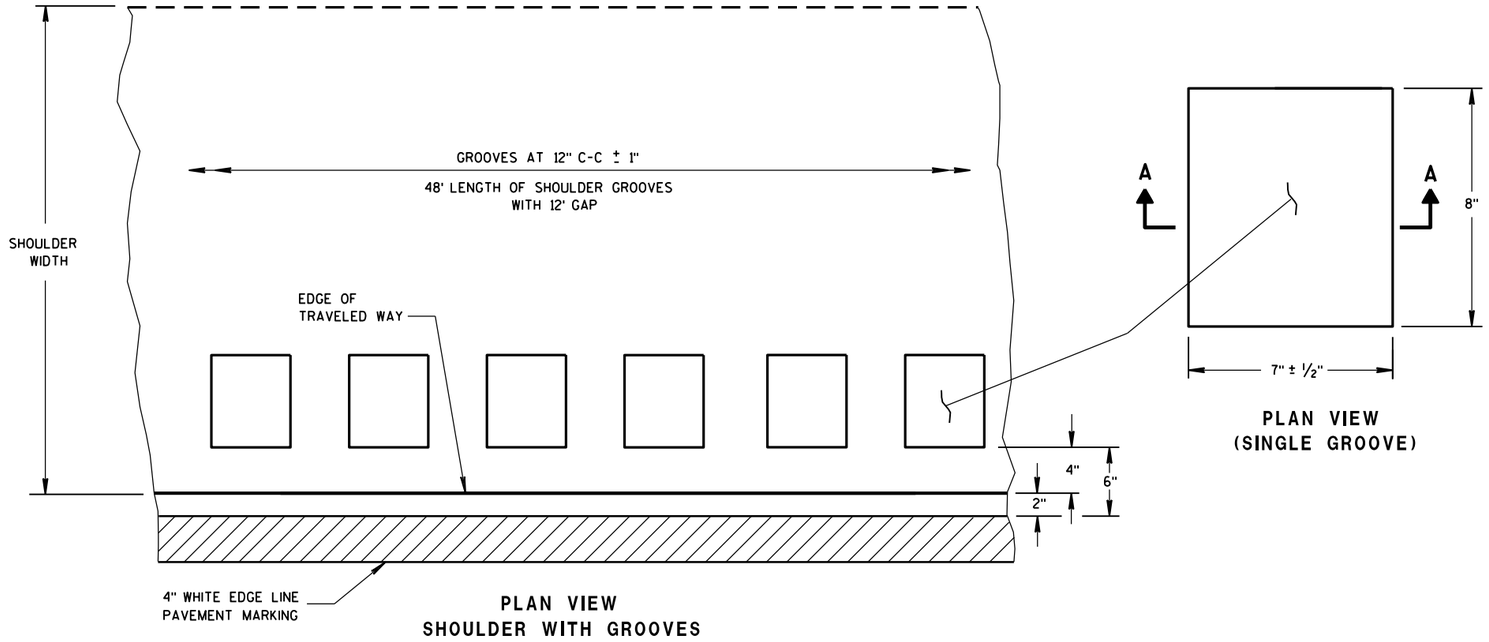
3/26/10 DATE

/S/ Scot Beck -- CHIEF STRUCTURAL DEVELOP ENGINEER

FHWA

6

S.D.D. 12 A 3-10



PLAN VIEW
SHOULDER WITH GROOVES

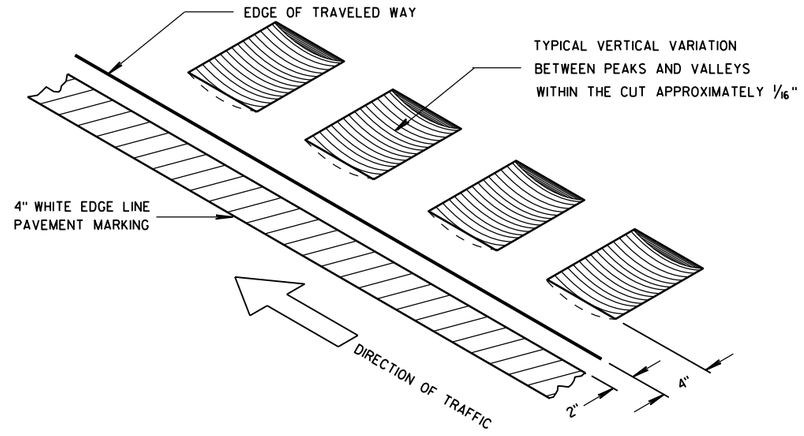
PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

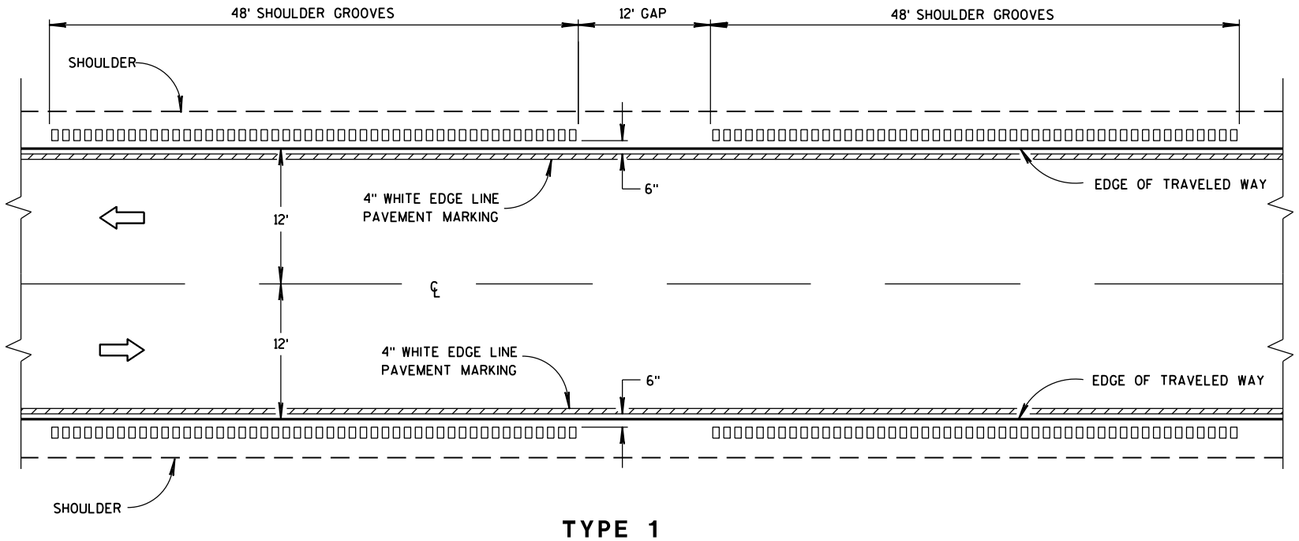
DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

(1) SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.

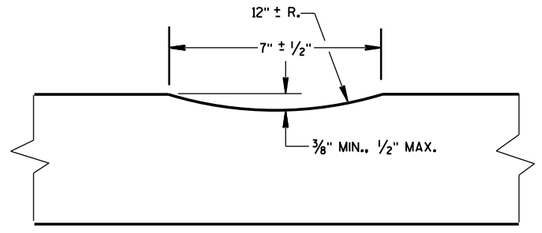


ISOMETRIC

PLACEMENT DETAIL FOR TYPE 1 MILLED RUMBLE STRIP



TYPE 1
2-LANE SHOULDER RUMBLE STRIP



SECTION A-A

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

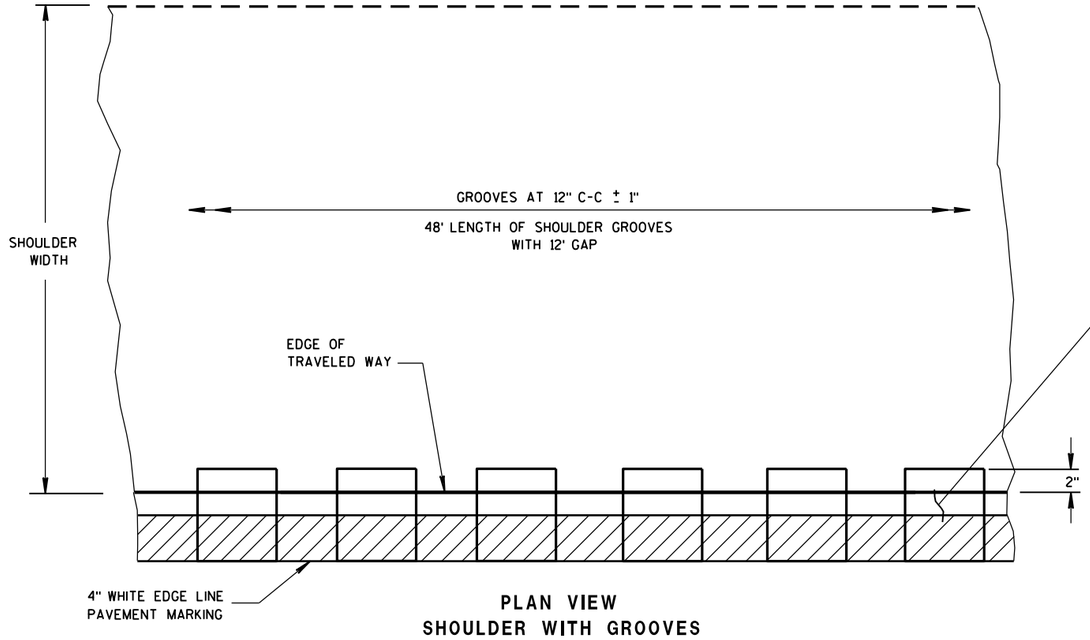
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

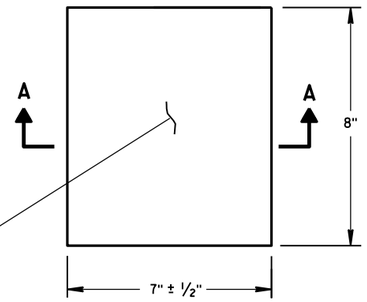
S.D.D. 13 A 10-1a

6

S.D.D. 13 A 10-1a



PLAN VIEW
SHOULDER WITH GROOVES



PLAN VIEW
(SINGLE GROOVE)

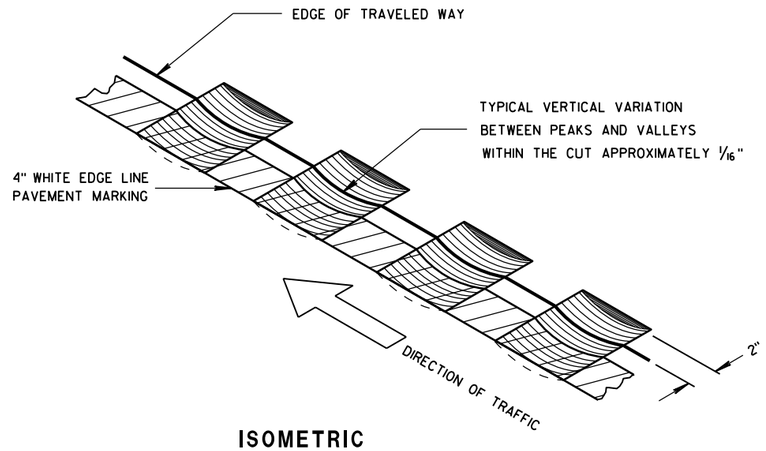
PLACEMENT DETAIL FOR TYPE 2 MILLED RUMBLE STRIP

GENERAL NOTES

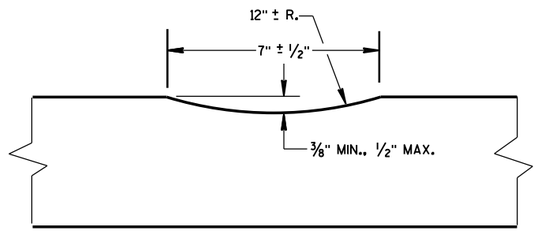
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

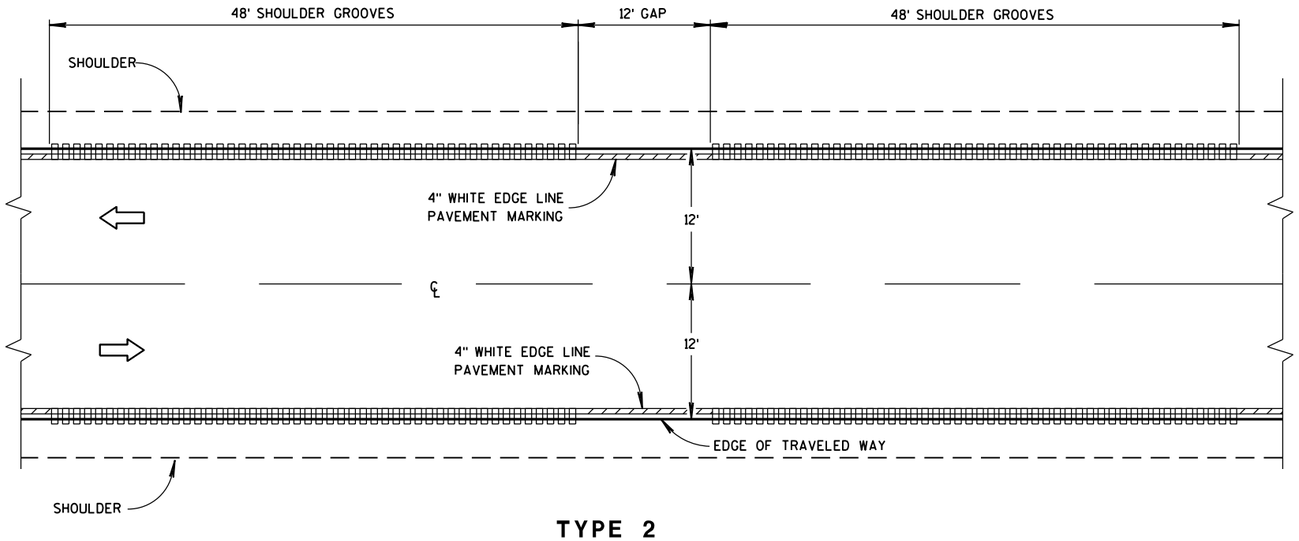
(1) SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



ISOMETRIC



SECTION A-A



TYPE 2
2-LANE SHOULDER RUMBLE STRIP

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

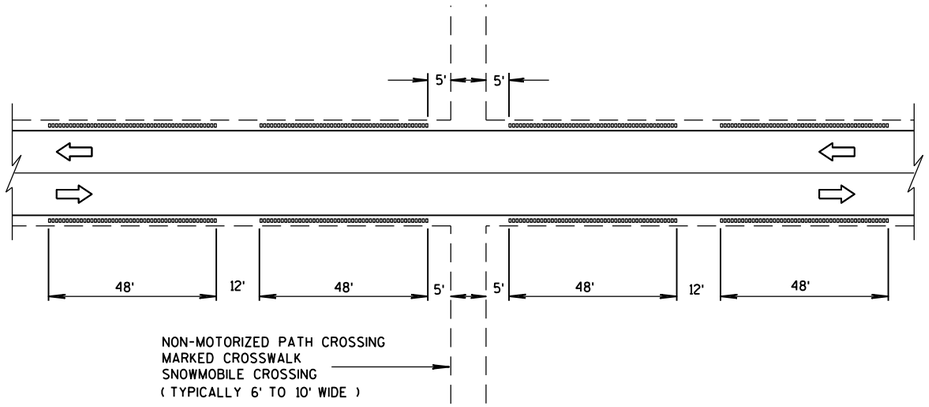
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

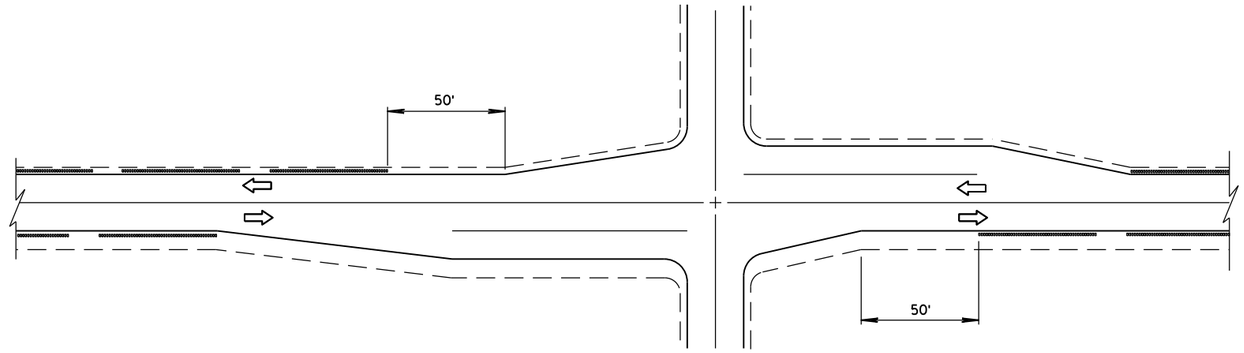
S.D.D. 13 A 10-1b

6

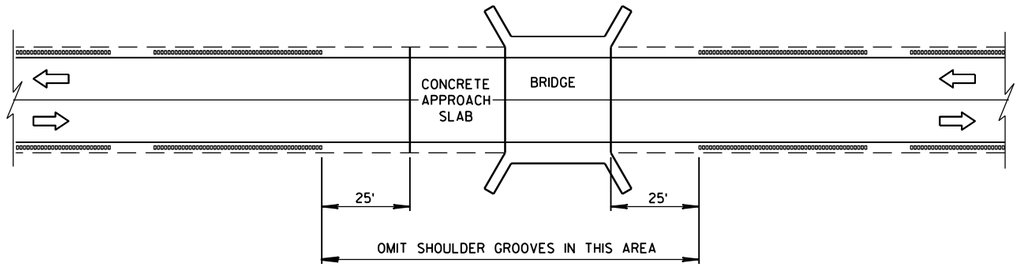
S.D.D. 13 A 10-1b



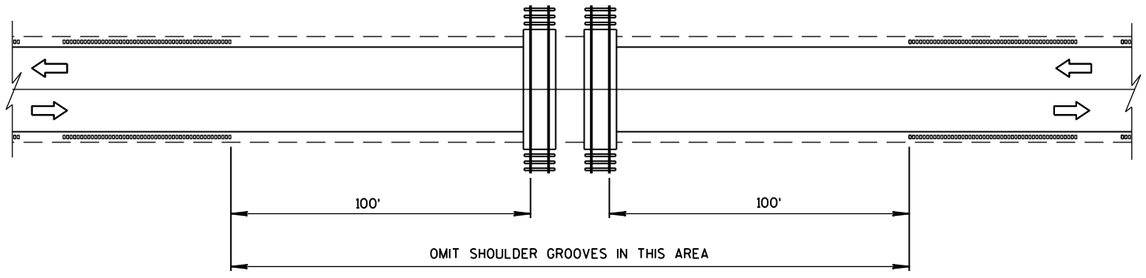
SHOULDER GROOVES AT MISCELLANEOUS CROSSINGS



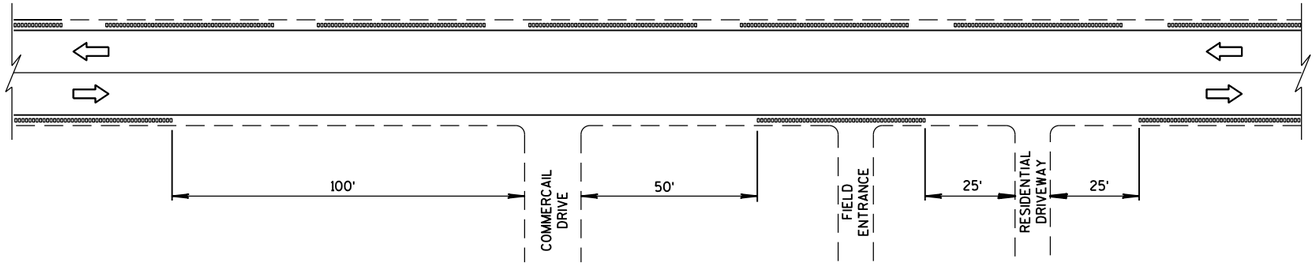
SHOULDER GROOVES AT INTERSECTIONS



SHOULDER GROOVES AT BRIDGES



SHOULDER GROOVES AT RAILROADS



SHOULDER GROOVES AT DRIVEWAYS (1)

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

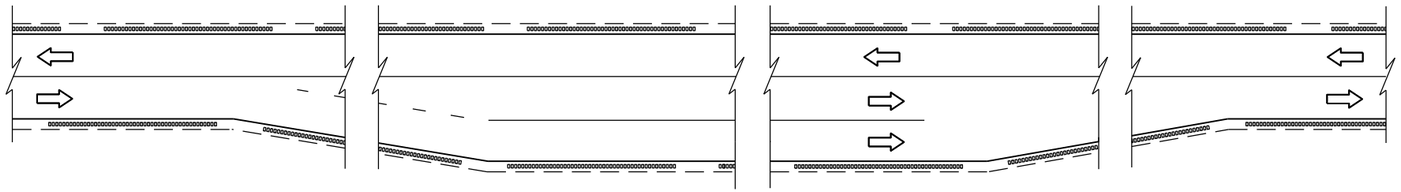
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

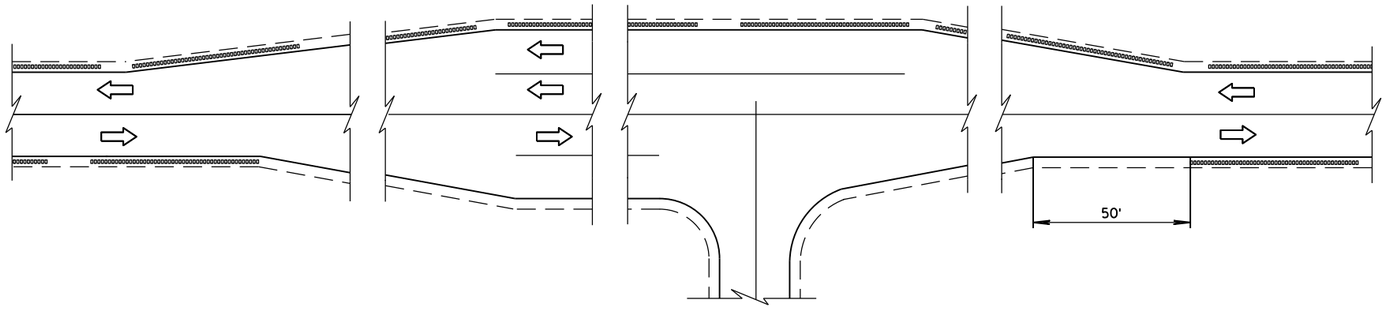
S.D.D. 13 A 10-1c

6

S.D.D. 13 A 10-1c



SHOULDER GROOVES AT PASSING AND CLIMBING LANES



SHOULDER GROOVES AT BYPASS LANES

6

6

S.D.D. 13 A 10-1d

S.D.D. 13 A 10-1d

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

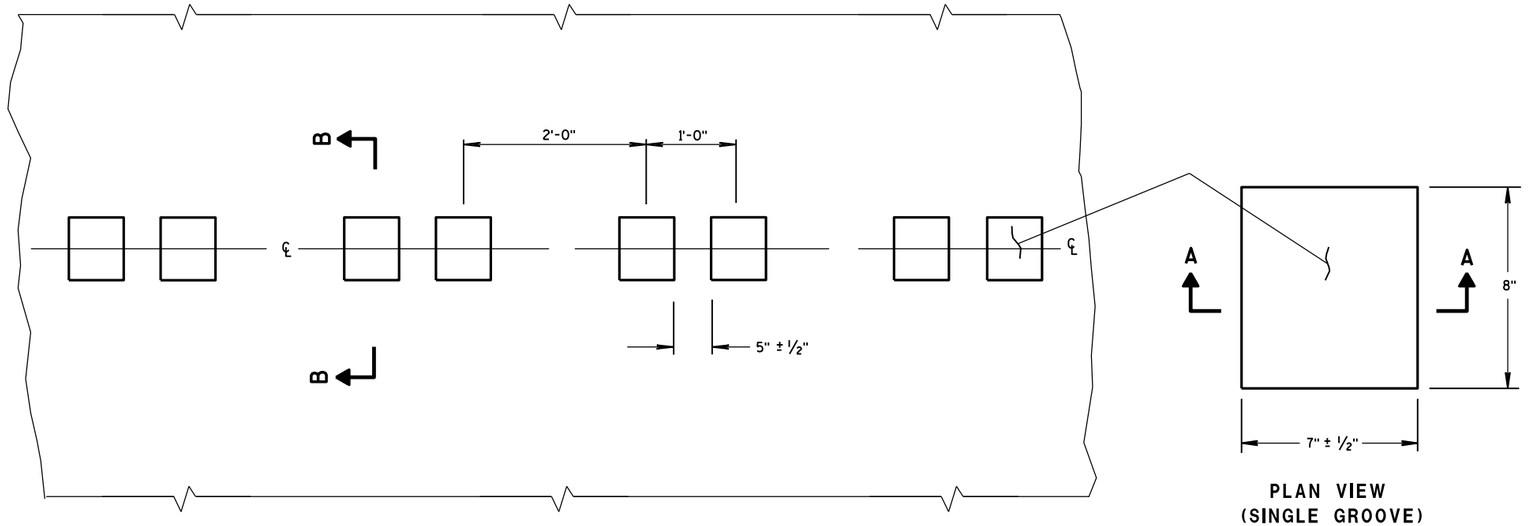
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12/17/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA



PLAN VIEW
CENTER LINE WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

GENERAL NOTES

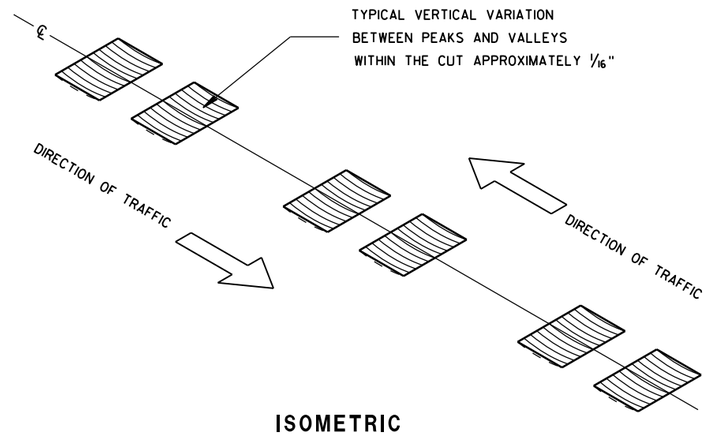
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL CENTER LINE GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

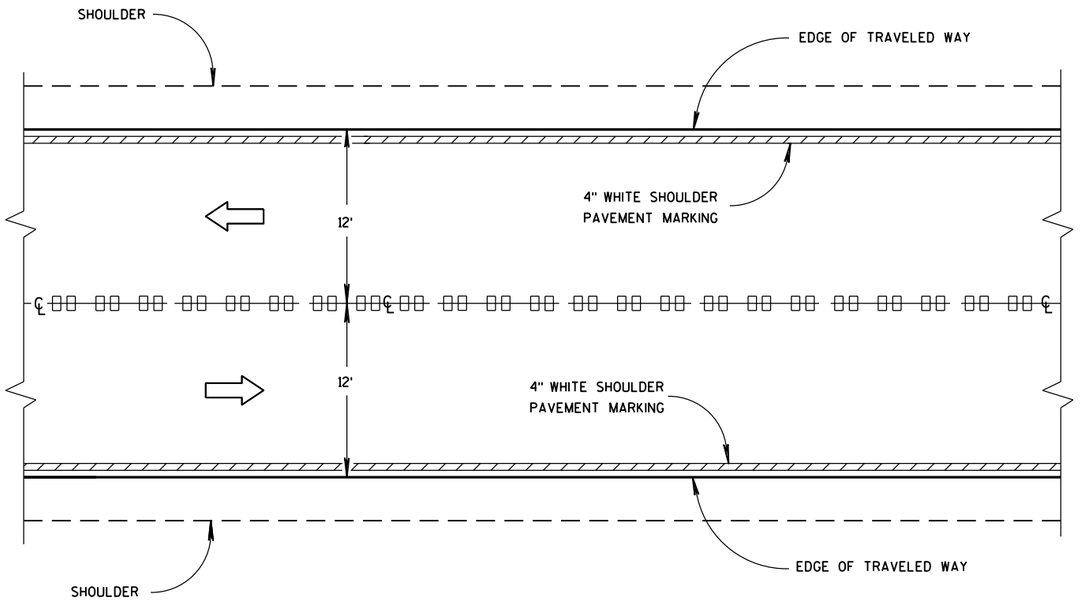
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

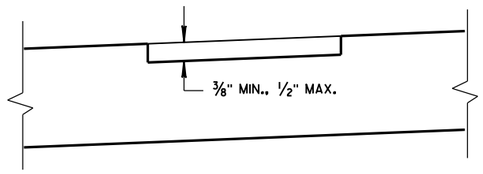
(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



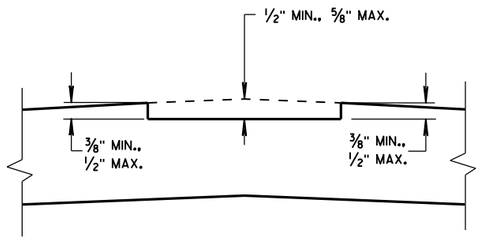
ISOMETRIC



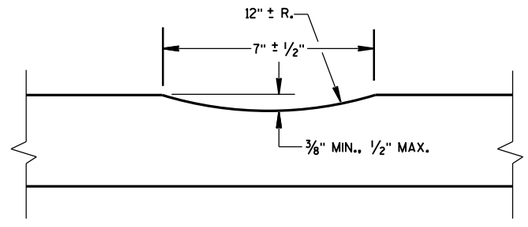
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



SECTION B-B
CROWNED ROADWAY



SECTION A-A

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

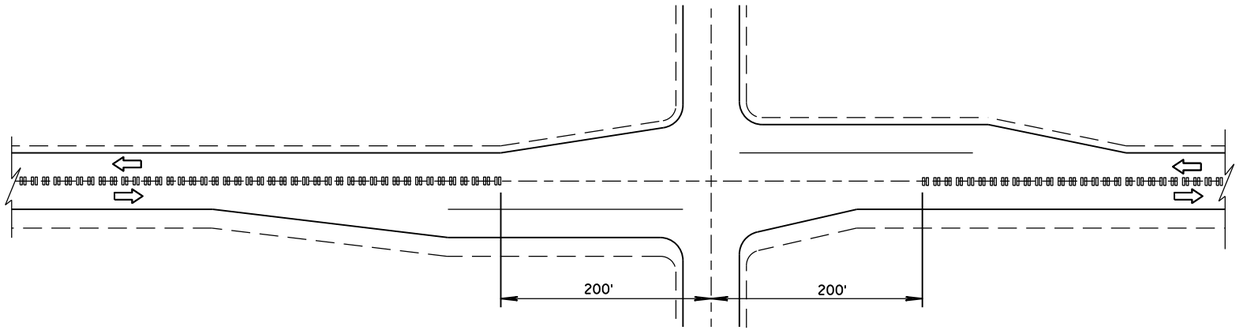
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

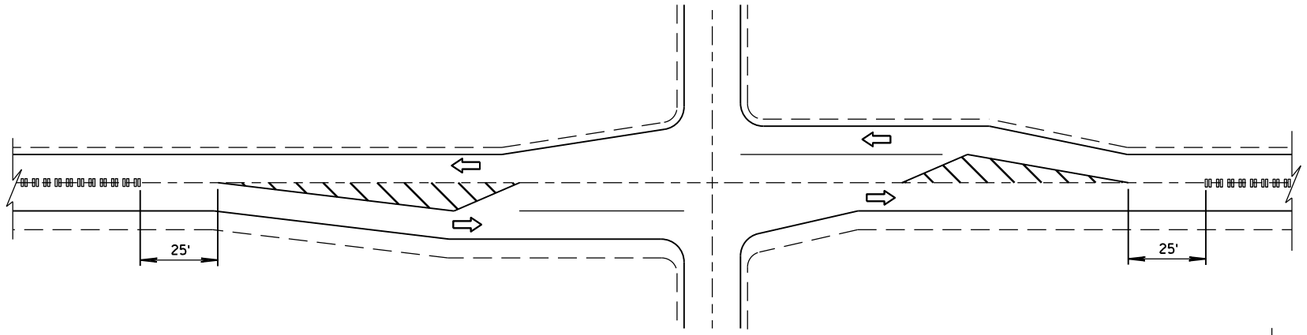
S.D.D. 13 A 11-2a

6

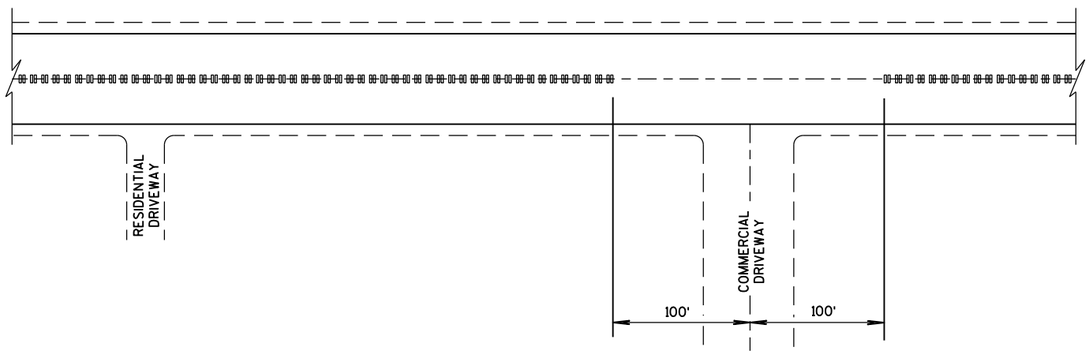
S.D.D. 13 A 11-2a



CENTER LINE GROOVES AT INTERSECTIONS

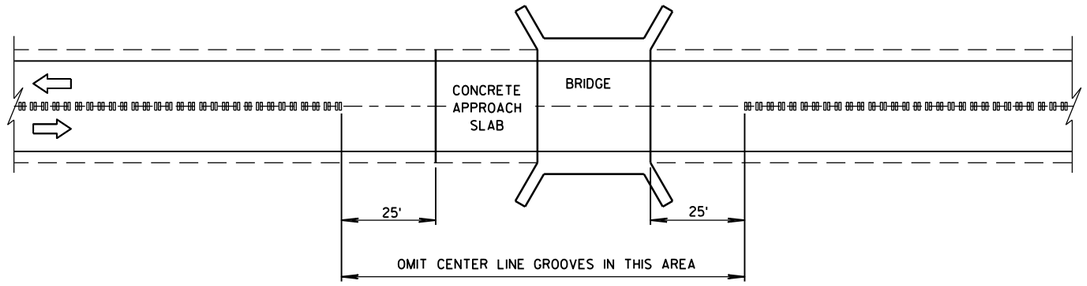


CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)

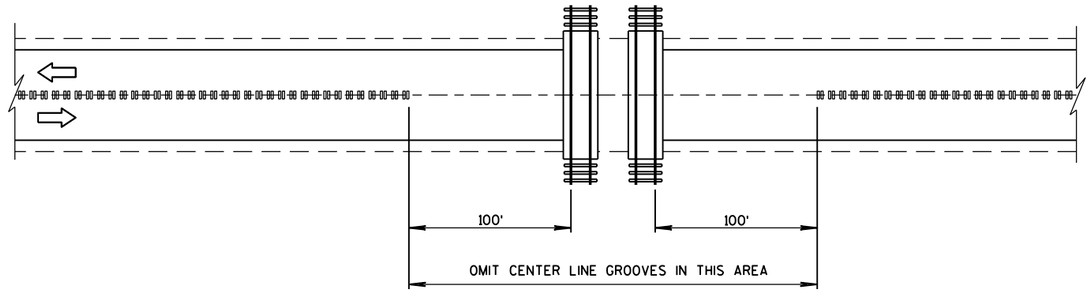


CENTER LINE GROOVES AT DRIVEWAYS (1)

(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



CENTER LINE GROOVES AT BRIDGES



CENTER LINE GROOVES AT RAILROADS

6

S.D.D. 13 A 11-2b

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/15/2013 DATE

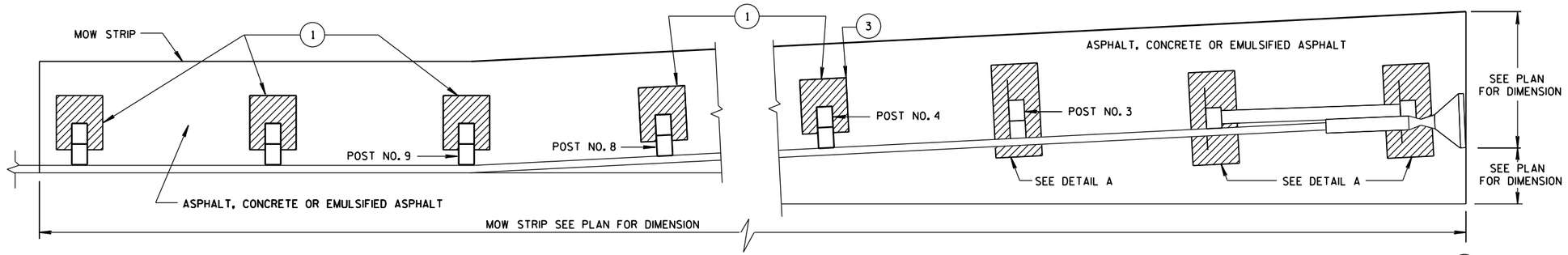
/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

NT

FHWA

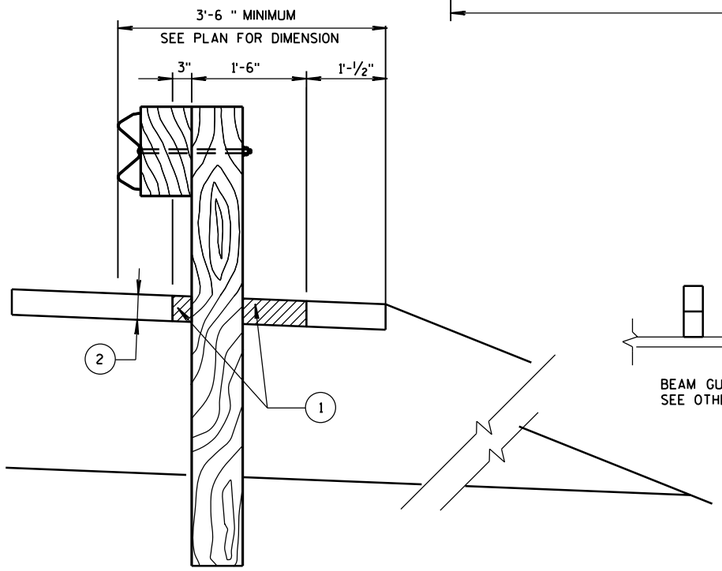
6

S.D.D. 13 A 11-2b

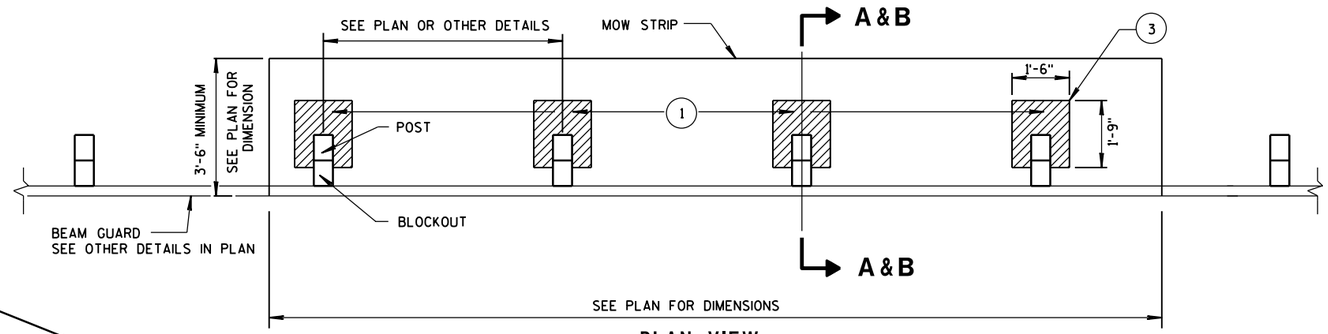


PLAN VIEW

MOW STRIP LAYOUT FOR ENERGY ABORBING TERMINAL

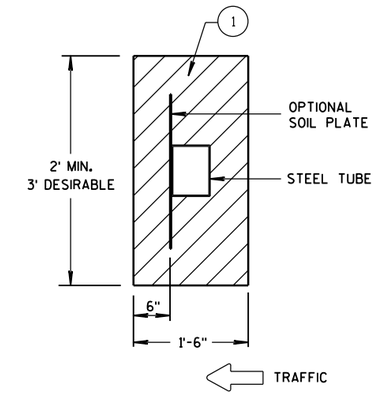


SECTION A-A

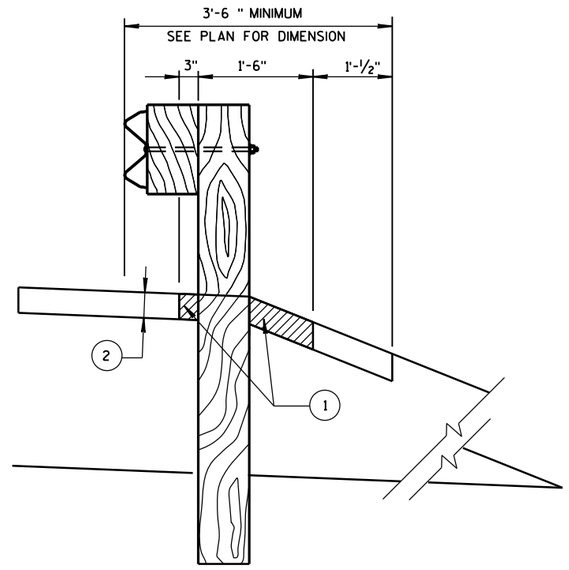


PLAN VIEW

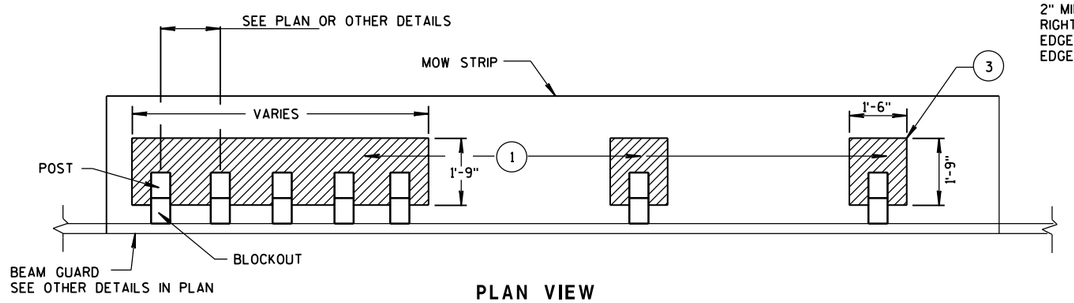
MOW STRIP FOR TYPICAL BLOCKOUT LAYOUT



DETAIL A

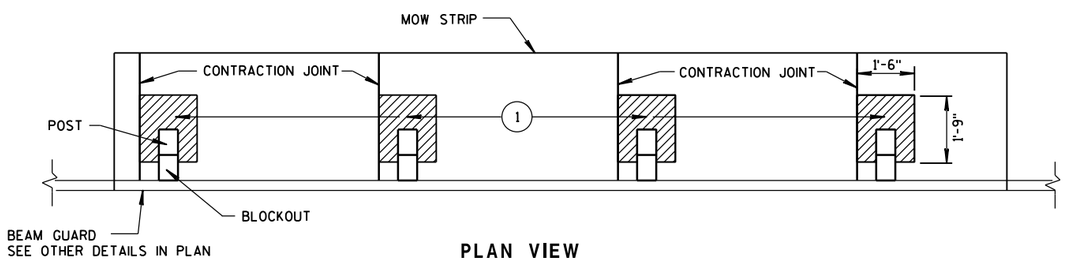


SECTION B-B



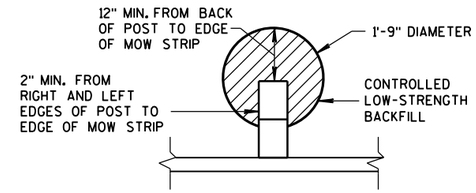
PLAN VIEW

MOW STRIP FOR TIGHT SPACING LAYOUT



PLAN VIEW

JOINT PLACEMENT FOR CONCRETE MOW STRIP



ALTERNATIVE HMA
MOW STRIP DESIGN

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

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

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

GUARDRAIL MOW STRIP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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S.D.D. 14 B 28-3

6

S.D.D. 14 B 28-3

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

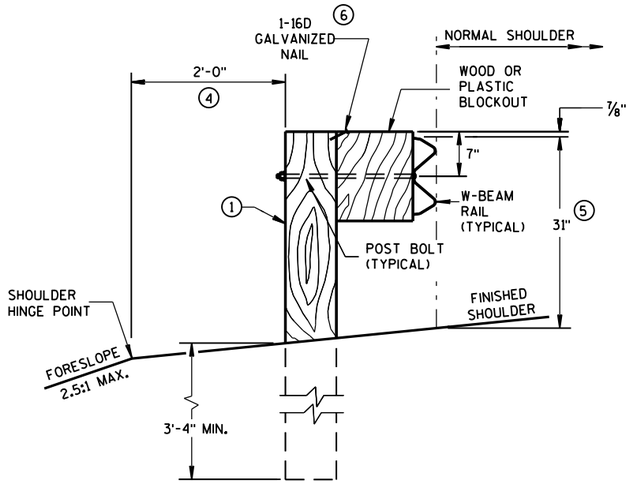
② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

③ IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

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

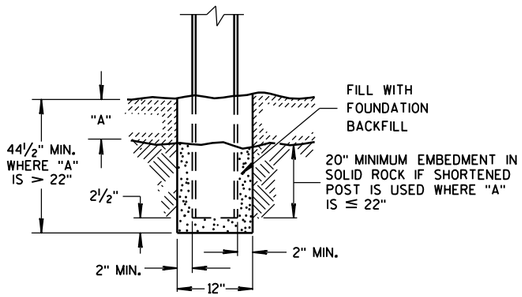
⑤ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

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



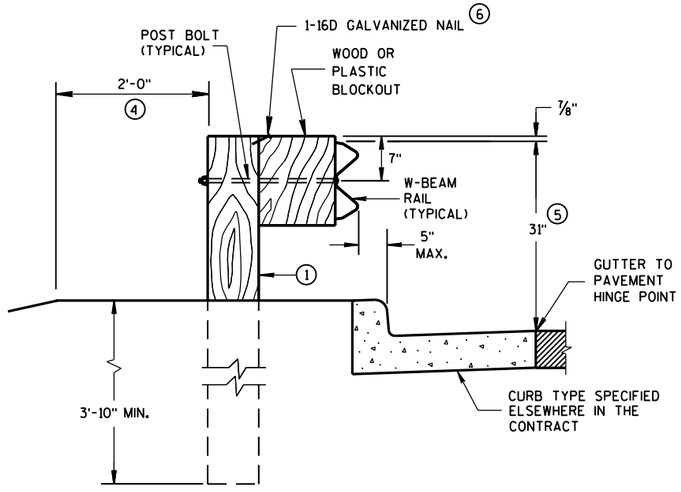
END VIEW

LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



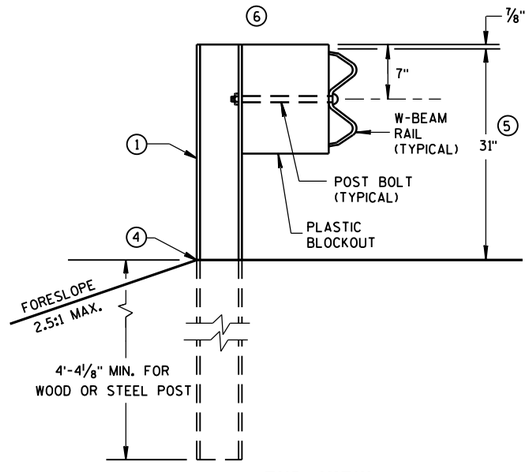
END VIEW

SETTING STEEL OR WOOD POST IN ROCK ③



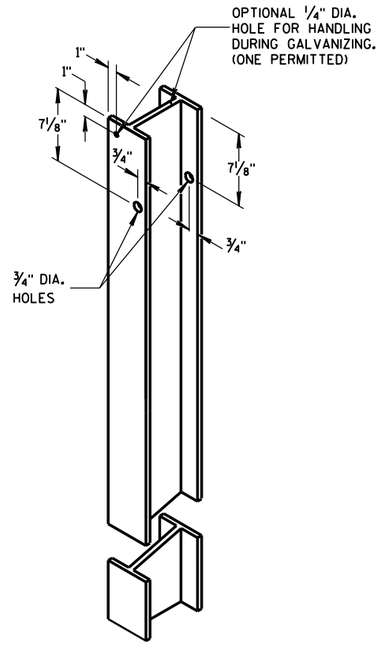
END VIEW

LOCATED ALONG A CURBED ROADWAY

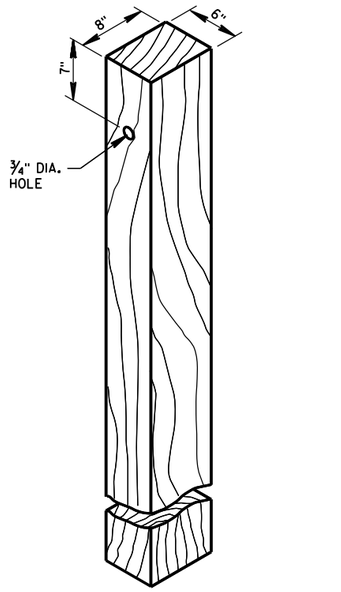


END VIEW

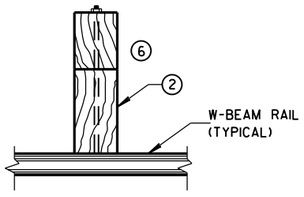
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



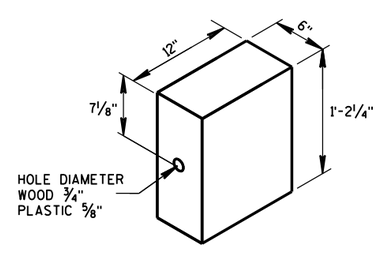
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) ①



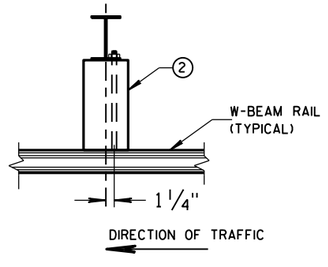
WOOD POST
(6" X 8") NOMINAL ①



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT ②



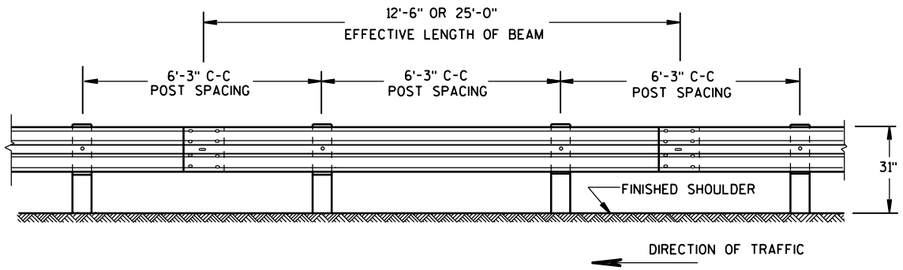
PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

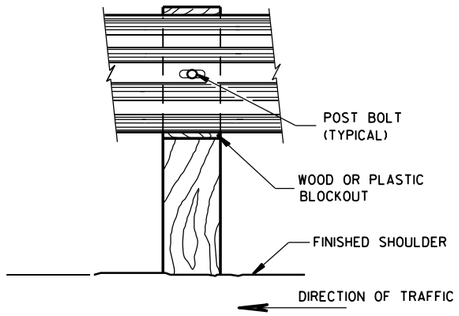
6

S.D.D. 14 B 42-5a



FRONT VIEW

POST SPACING STANDARD INSTALLATION



FRONT VIEW AT WOOD POST

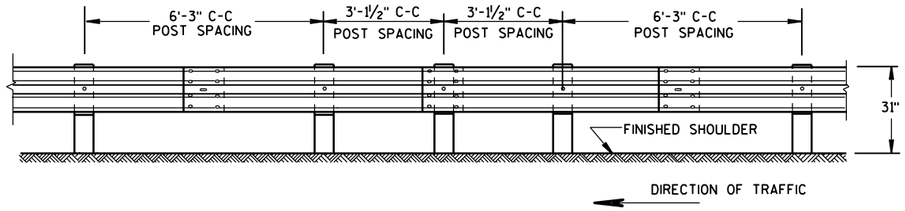
GENERAL NOTES

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

(11) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

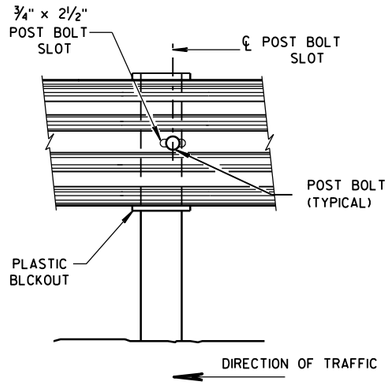
POST BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND 5/8" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

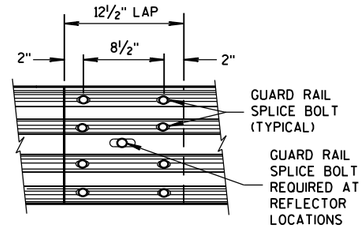


FRONT VIEW

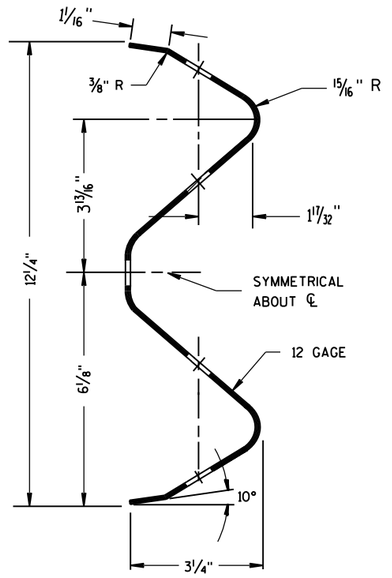
HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)



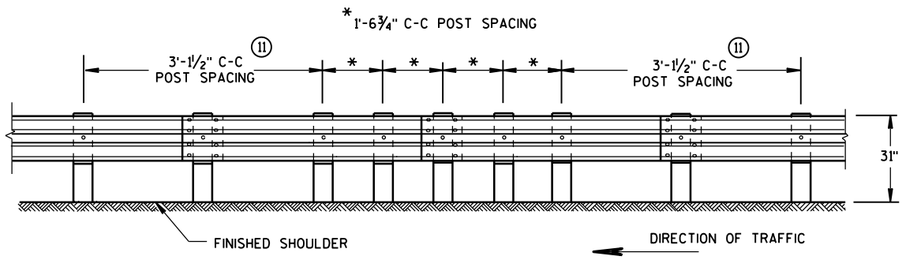
FRONT VIEW AT STEEL POST



FRONT VIEW
MID-SPAN BEAM SPLICE

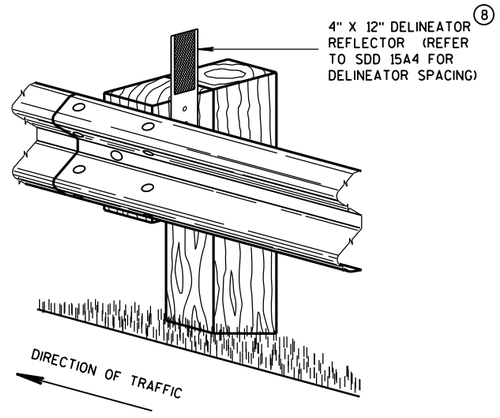


SECTION THRU W-BEAM RAIL



FRONT VIEW

QUARTER POST SPACING (QS)



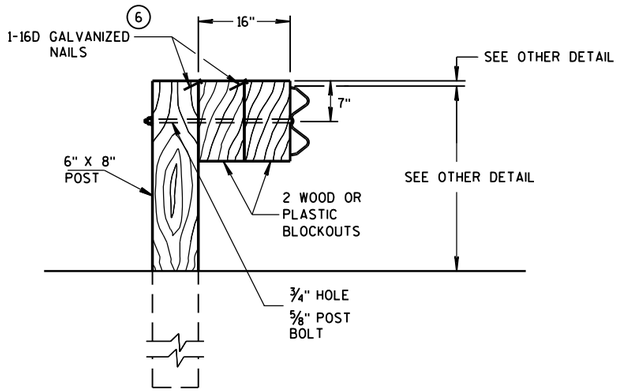
ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

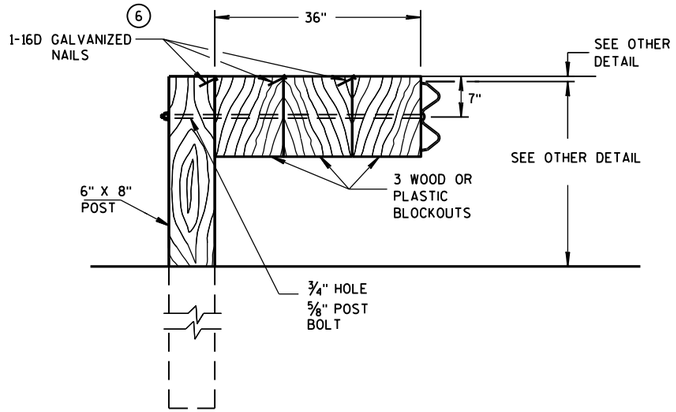
6

S.D.D. 14 B 42-5b



DETAIL FOR 16" BLOCKOUT DEPTH

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

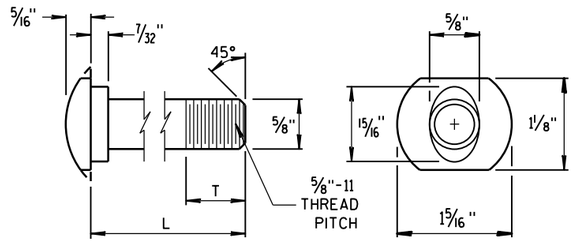


DETAIL FOR 36" BLOCKOUT DEPTH

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

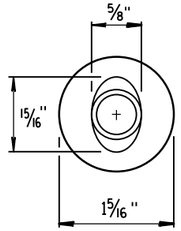
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16".
2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

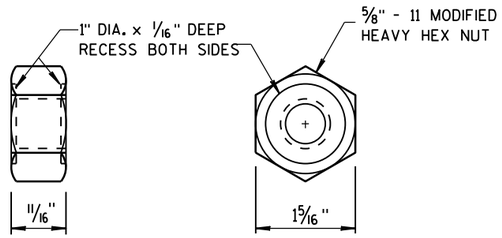


POST BOLT TABLE

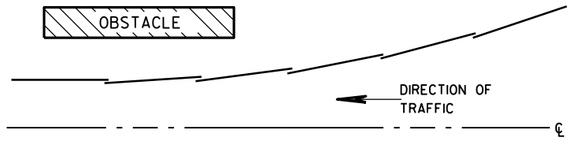
L	T (MIN.)
1¼"	1⅛"
2"	1¾"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

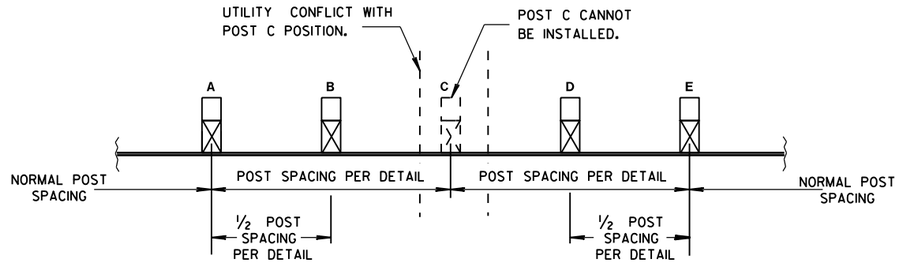


POST BOLT, SPLICE BOLT AND RECESS NUT

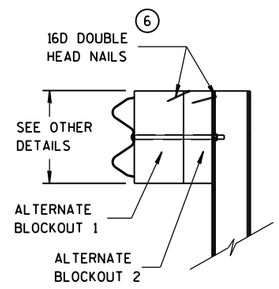


PLAN VIEW

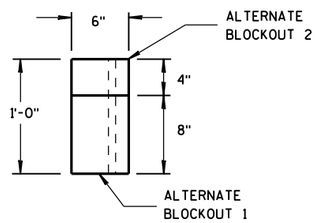
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



SIDE VIEW



TOP VIEW

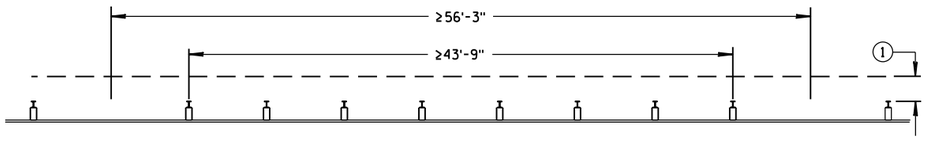
ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

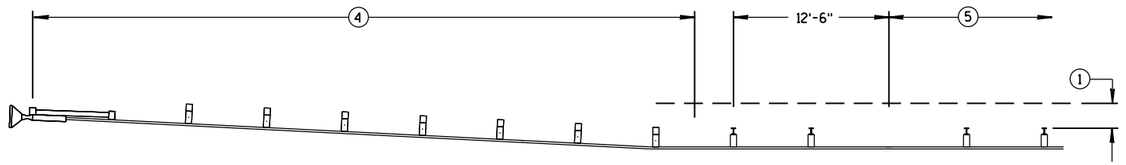
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

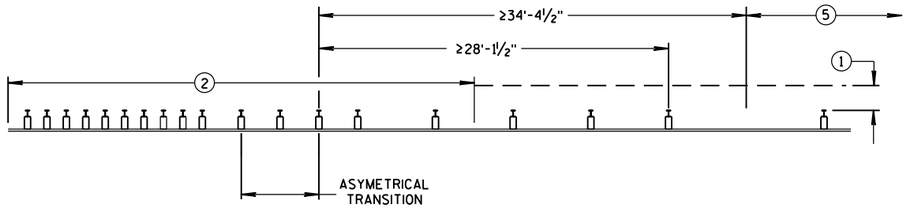
S.D.D. 14 B 42-5c



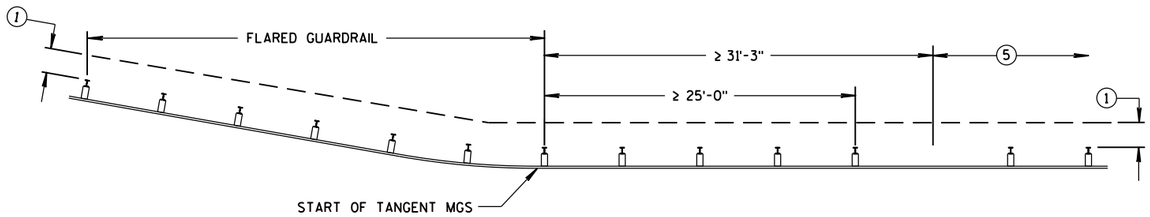
MISSING POST IN NORMAL BEAM GUARD RUN



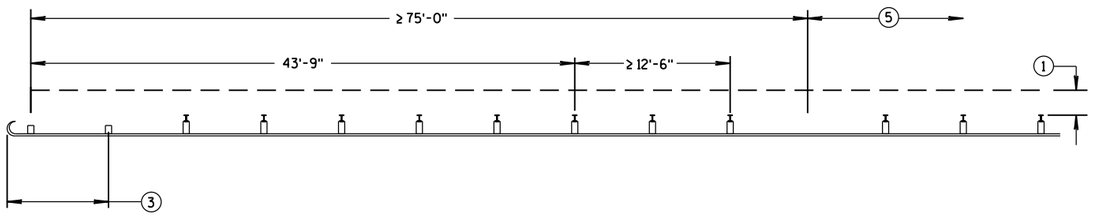
MISSING POST IN NORMAL BEAM GUARD RUN NEAR EAT



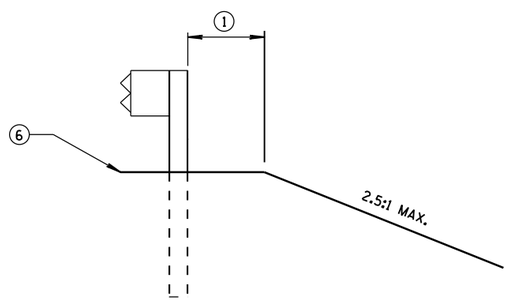
MISSING POST NEAR APPROACH THRIE BEAM TRANSITION



MISSING POST IN NORMAL BEAM GUARD RUN
NEAR FLARED BEAM GUARD



MISSING POST IN NORMAL BEAM GUARD RUN
NEAR TYPE 2 TERMINAL



CROSS SECTION VIEW

(1) MINIMUM OF 2 FEET OF GRADING BEHIND POST.

(2) SEE SDD 14B45 FOR MORE DETAILS.

(3) SEE SDD 14B47 FOR MORE DETAILS.

(4) SEE SDD 14B44 FOR MORE DETAILS.

(5) SEE MISSING POST IN NORMAL BEAM GUARD RUN FOR DISTANCE TO NEXT MISSING POST AND AREA FOR WELL DRAINED, COMPACTED SOILS.

(6) SEE PLAN FOR SHOULDER DESIGN.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

6

S.D.D. 14 B 42-5d

6

S.D.D. 14 B 42-5d

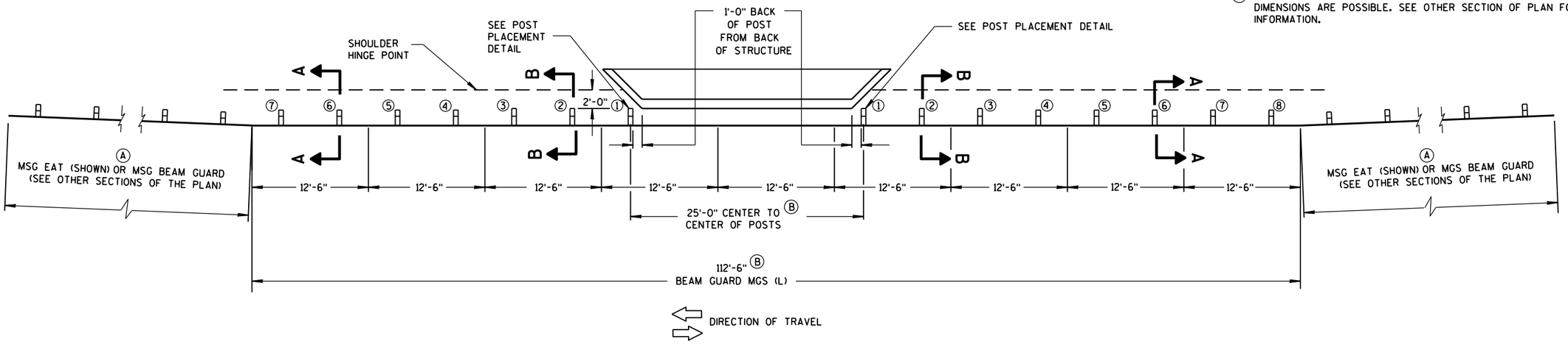
GENERAL NOTES

POSTS 1 THROUGH 3 ARE CRT POSTS.
ALL OTHER POSTS SHALL BE WOOD OR STEEL.

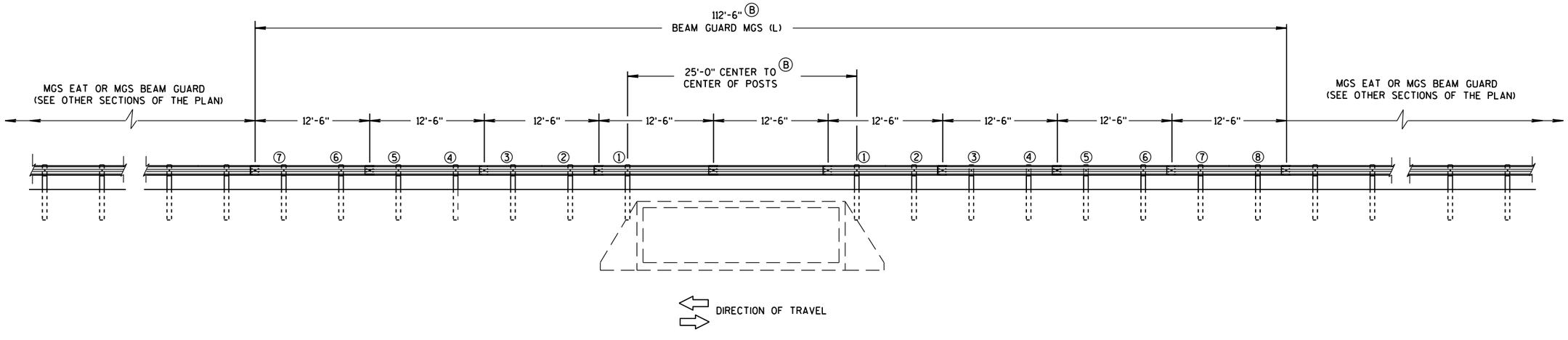
SEE SDD 14 B 42 FOR MORE DETAILS.

(A) FLARE FOR MGS EAT SHOWN. IF INSTALLING MGS NO FLARE NEEDED.

(B) VALUES SHOWN ON DRAWING REPRESENT THE MAXIMUM LENGTH. SHORTER DIMENSIONS ARE POSSIBLE. SEE OTHER SECTION OF PLAN FOR MORE INFORMATION.



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) TWO-WAY TRAFFIC

MIDWEST GUARDRAIL SYSTEM
LONG SPAN MGS (L)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 43-3a

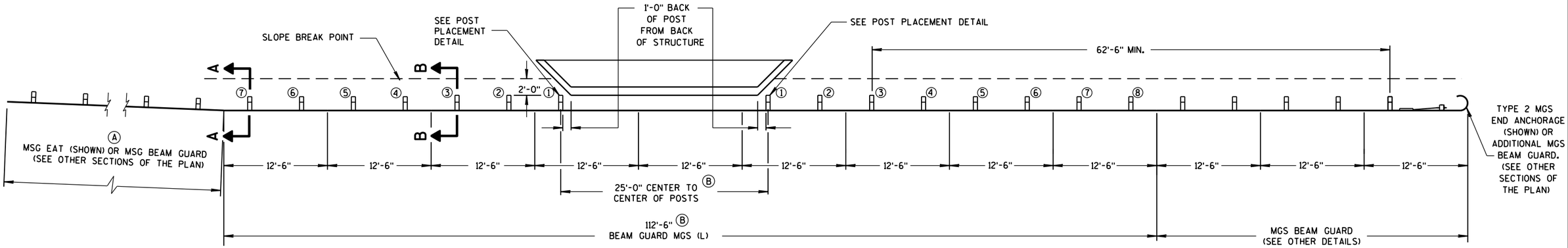
GENERAL NOTES

POSTS 1 THROUGH 3 ARE CRT POSTS.
ALL OTHER POSTS SHALL BE WOOD OR STEEL.

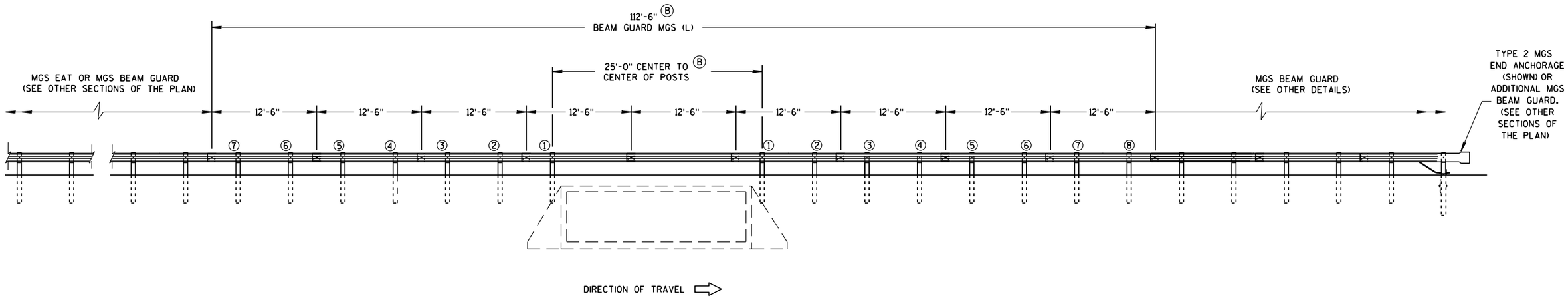
SEE SDD 14 B 42 FOR MORE DETAILS.

(A) FLARE FOR MGS EAT SHOWN. IF INSTALLING MGS NO FLARE NEEDED.

(B) VALUES SHOWN ON DRAWING REPRESENT THE MAXIMUM LENGTH. SHORTER DIMENSIONS ARE POSSIBLE. SEE OTHER SECTION OF PLAN FOR MORE INFORMATION.



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) ONE-WAY TRAFFIC

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPOI	112

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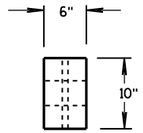
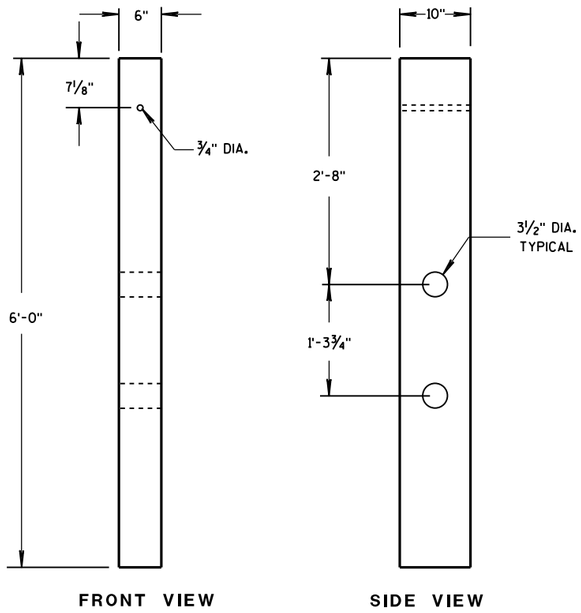
S.D.D. 14 B 43-3b

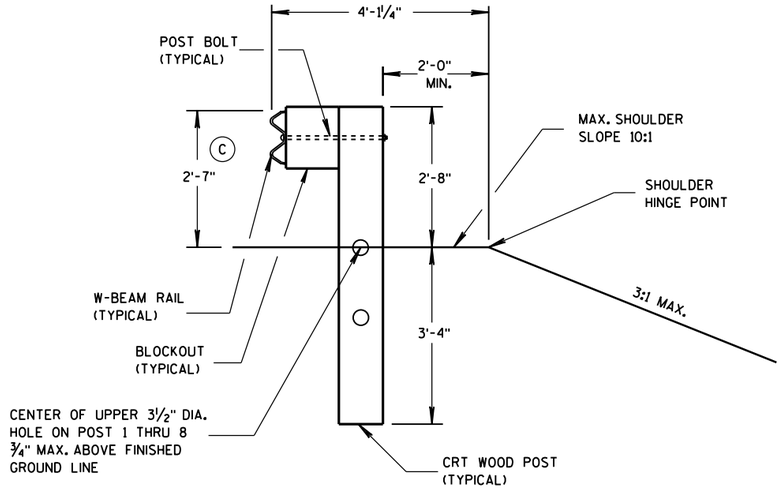


PLAN VIEW



FRONT VIEW SIDE VIEW

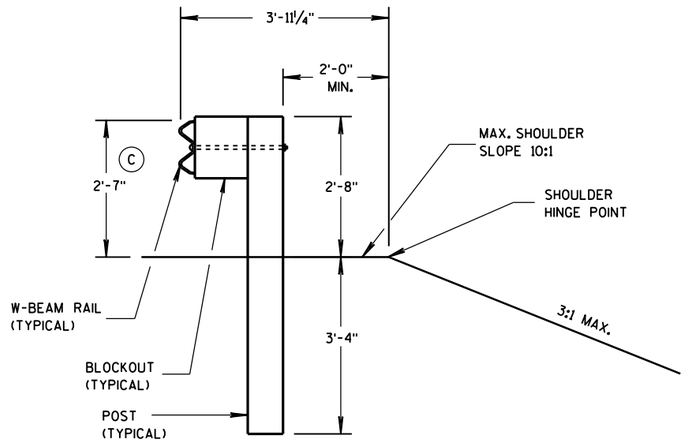
CRT WOOD POST



SECTION B-B

POSTS NO. 1-3

SEE OTHER DETAILS



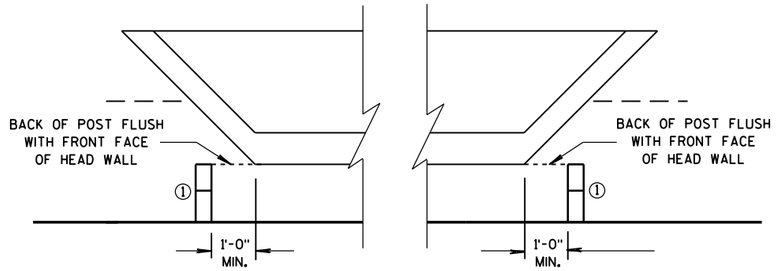
SECTION A-A

POSTS NO. 4-8

SEE OTHER DETAILS

GENERAL NOTES

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



POST PLACEMENT DETAIL

MIDWEST GUARDRAIL SYSTEM
LONG SPAN MGS (L)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/10/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

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S.D.D. 14 B 43-3c

GENERAL NOTES

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

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

(C) DIFFERENT MANUFACTURES REQUIRE DIFFERENT PERFORATED W-BEAM RAIL END PANELS. SEE MANUFACTURES INFORMATION.

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

(H) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURES. SEE MANUFACTURE'S DRAWING FOR INFORMATION.

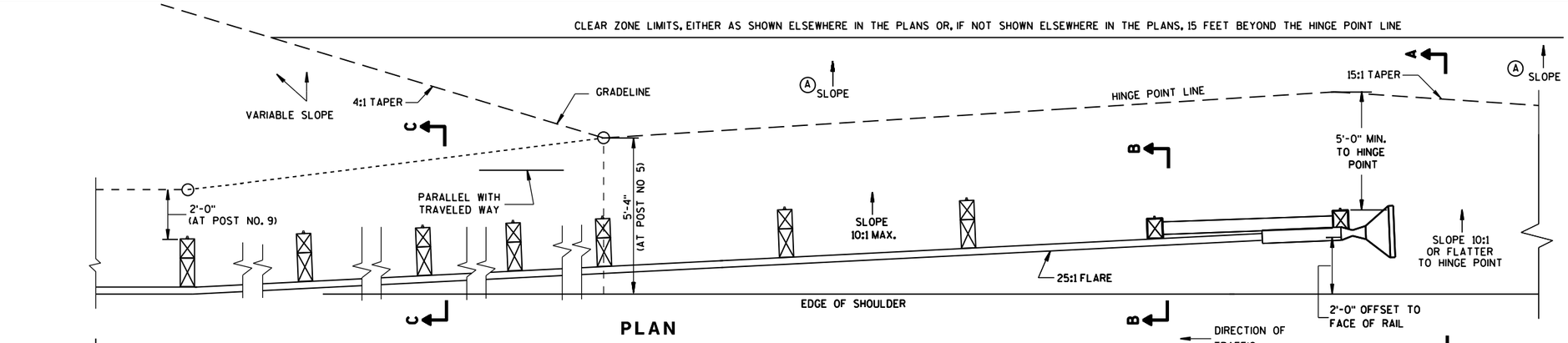
SEE SDD 14B42 FOR MORE INFORMATION.

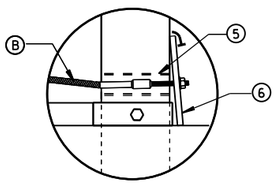
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

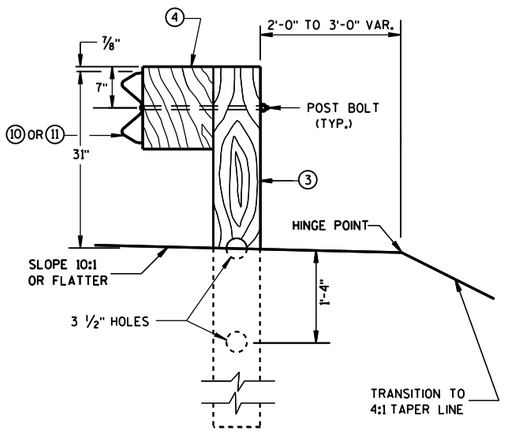
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

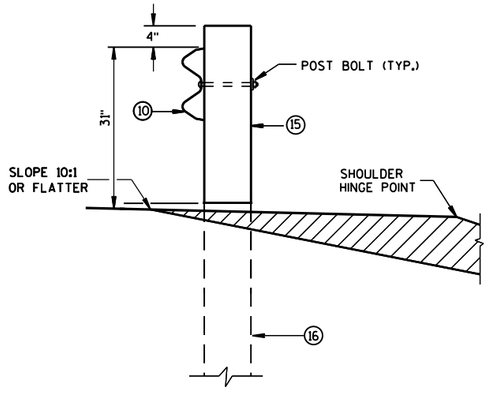
SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

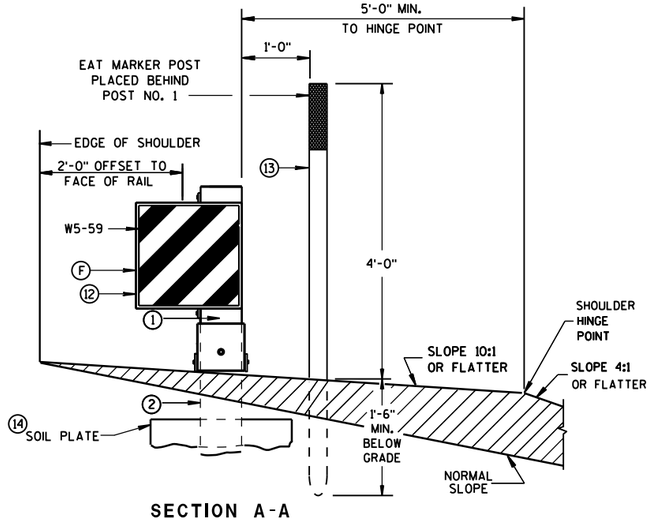
THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE.

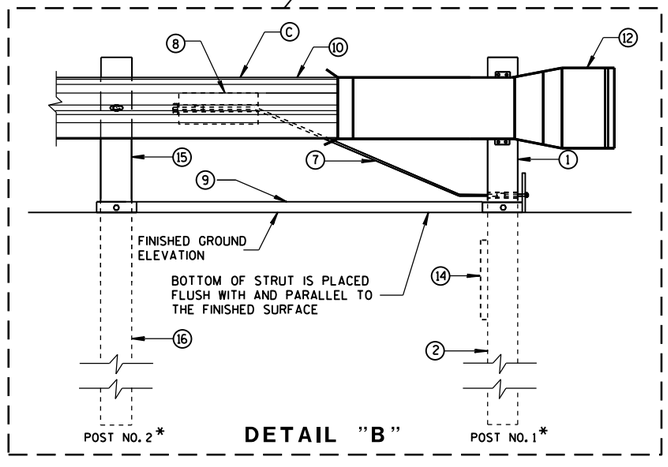












MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

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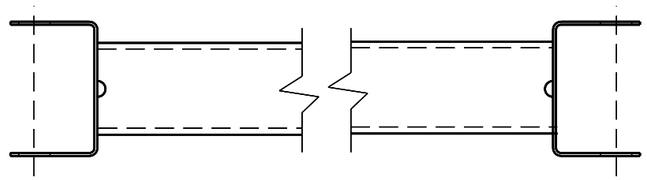
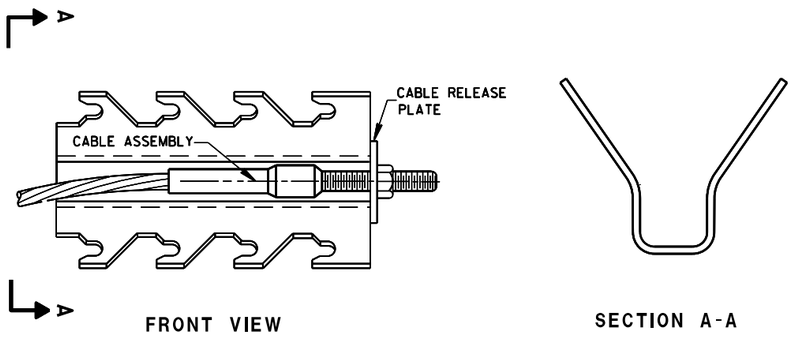
S.D.D. 14 B 44-3a



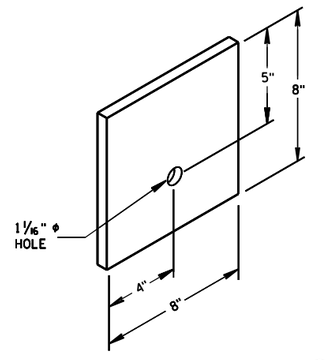
GENERIC GROUND STRUT (9) (H)



GENERIC ANCHOR CABLE BOX (8) (H)

BILL OF MATERIALS

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



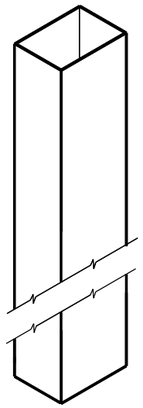
BEARING PLATE (6)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

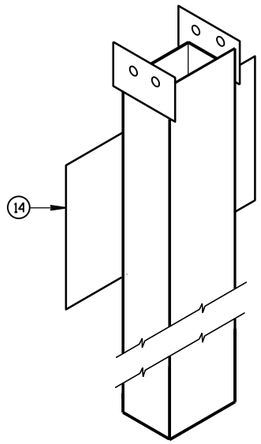
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

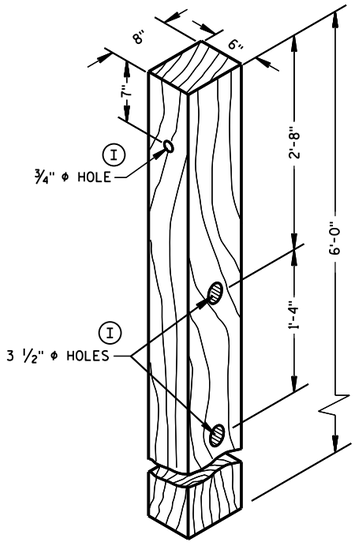
S.D.D. 14 B 44-3b



UPPER POST NO. 1 (1)

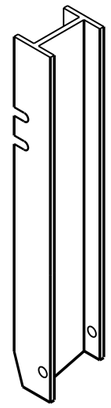


LOWER POST NO. 1 (2)

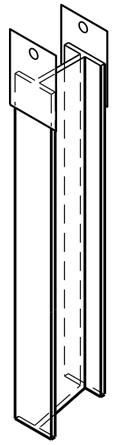


POSTS NUMBER 3-9

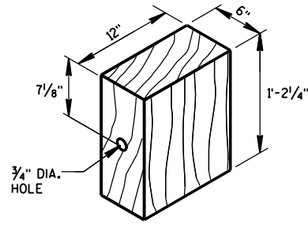
WOOD CRT POST (3)



UPPER POST NO. 2 (15)

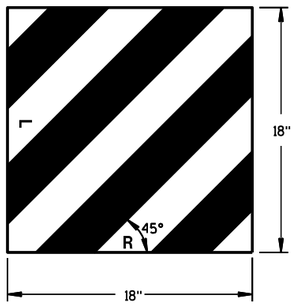


LOWER POST NO. 2 (16)



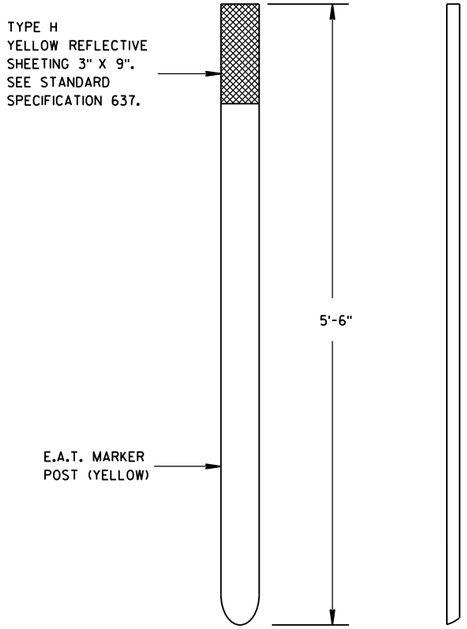
WOOD BLOCKOUT (4)

REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



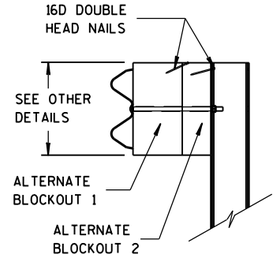
W5-59

REFLECTIVE SHEETING DETAIL (H)

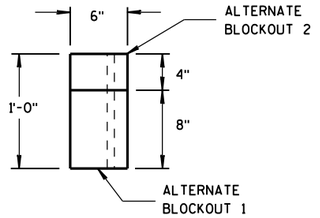


FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW



TOP VIEW

ALTERNATE WOOD
BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

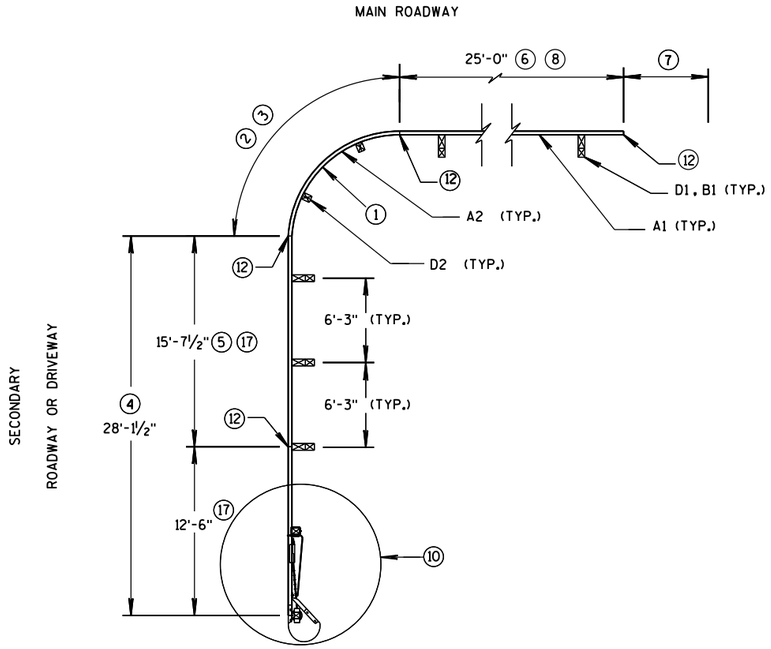
June 2017
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS
UNIT SUPERVISOR

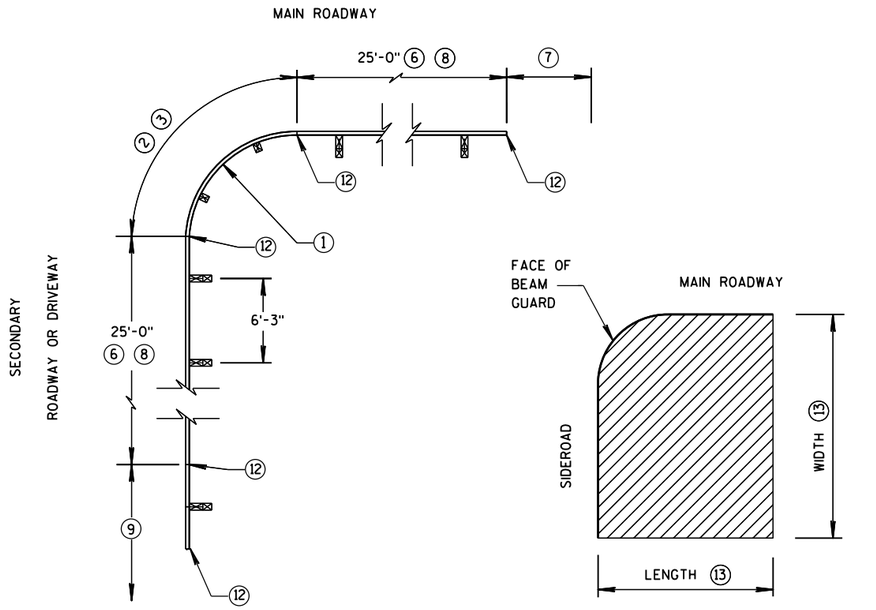
FHWA

6

S.D.D. 14 B 44-3c



SHORT RADIUS BEAM GUARD WITH SHORT RADIUS TERMINAL ON SECONDARY ROAD OR DRIVEWAY PLAN VIEW



SHORT RADIUS BEAM GUARD WITH EAT, ADDITIONAL BEAM GUARD OR TRANSITION TO RIGID BARRIER ON SECONDARY ROAD OR DRIVEWAY PLAN VIEW

AREA FREE OF FIXED OBJECTS FOR RADIUS 32' AND LESS (16)

TABLE FOR RADIUS OF 32' AND LESS

RADIUS FT	LENGTH FT	WIDTH FT
8	25	15
16	30	15
24	40	20
32	50	30

GENERAL NOTES

SEE PLANS FOR OTHER BARRIER SYSTEM AND LOCATION SPECIFICS.

SEE 14B42 FOR MORE INFORMATION ON BEAM GUARD INSTALLATION, PARTS, MATERIALS, AND INSTALLATION INFORMATION.

GALVANIZE PARTS AFTER FABRICATION.

WELDING IS TO FOLLOW CURRENT REQUIREMENTS OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE ANSI/AWS D1.1

UNLESS NOTED OTHERWISE, ALL PLATES ARE FLAT AND FREE OF WARP.

UNLESS NOTED OTHERWISE, ALL EDGES ARE SMOOTH, STRAIGHT AND VERITCAL.

ALL CUTS AND HOLES, EXCEPT IN BEAM GUARD RAIL ARE TO BE MACHINED OR MACHINE FLAME CUTS.

UNLESS NOTED OTHERWISE CUT OR PROVIDE BOLTS THAT ARE ¼" TO ½" BEYOND THE NUT

DRAWINGS ARE NOT TO SCALE.

(1) RADIUS MEASURE FROM INSIDE OF RAIL. LENGTH OF BEAM GUARD SHORT RADIUS GUARD MEASURED ALONG TRAFFIC SIDE OF RAIL. RADIUS BETWEEN 8 FEET TO 150 FEET. SEE PLAN FOR REQUIRED RADIUS. BEAM GUARD RAIL IN RADIUS IS SHOP BENT. ODD RAIL LENGTH OR FIELD CUTS MAY BE REQUIRED.

(2) CONTROLLED RELEASE TERMINAL (CRT) POSTS ARE USED IN THE RADIUS. CONTROLLED RELEASE TERMINAL (CRT) POSTS ARE SPACED 6'-3". SEE PLAN FOR NUMBER OF CONTROLLED RELEASE TERMINAL (CRT) POSTS.

(3) WITHIN RADIUS BEAM GUARD RAILS ARE NOT BOLTED TO POSTS. BEAM GUARD RAILS RESTED ON TOP OF LAG SCREW.

(4) MINIMUM LENGTH OF BEAM GUARD ALONG SIDE ROAD OR DRIVEWAY TO INSTALL SHORT RADIUS TERMINAL. BEAM GUARD IS PAID FOR WITH BEAM GUARD ITEM.

(5) ODD LENGTH OF BEAM GUARD REQUIRED TO INSTALL SHORT RADIUS TERMINAL.

(6) MINIMUM AMOUNT OF BEAM GUARD TO BE INSTALLED PRIOR TRANSITION TO RIGID BARRIER, ADDITIONAL BEAM GUARD, OR EAT. BEAM GUARD PAID FOR WITH BEAM GUARD ITEM. SEE PLANS FOR MORE DETAIL.

(7) BEAM GUARD, EAT OR TRANSITION TO RIGID BARRIER. SEE PLAN.

(8) TOP OF BEAM GUARD BY THE RADIUS IS 27". HEIGHT OF BEAM GUARD IS 31" BY TRANSITION TO RIGID BARRIER, ADDITIONAL BEAM GUARD OR EAT.

(9) ADDITIONAL BEAM GUARD, EAT OR TRANSITION TO RIGID BARRIER. BEAM GUARD SHOWN. SEE PLAN FOR DETAILS.

(10) SHORT RADIUS TERMINAL (SEE OTHER DETAILS)

(11) HEIGHT VARIES. SEE NOTE (8) AND (17).

(12) BEAM GUARD RAIL SPLICE LOCATION. SPLICE LOCATION REQUIRE PART F1 AND F2. SEE SDD 14B42 FOR DETAILS.

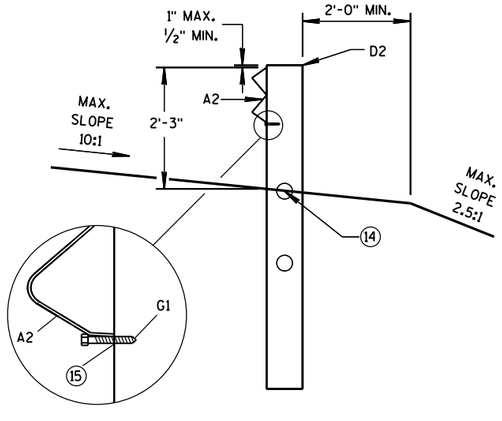
(13) SEE TABLE FOR VALUES.

(14) MAXIMUM HEIGHT FOR CENTER OF HOLE IS ¾" ABOVE FINISHED GROUND ±1".

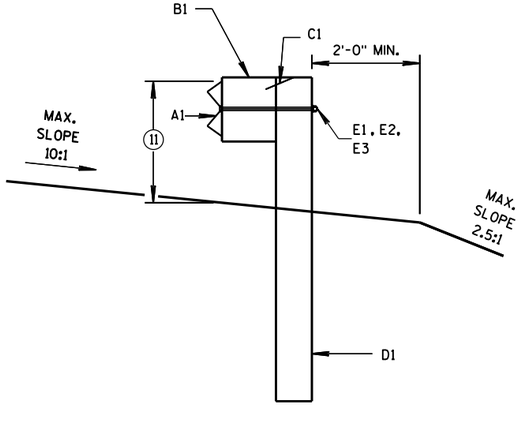
(15) DRILL 15/64" DIA. PILOT HOLE. DO NOT HAMMER LAG SCREW INTO POST.

(16) SMALL SIGNS ON BREAKAWAY HARDWARE ARE ACCEPTABLE.

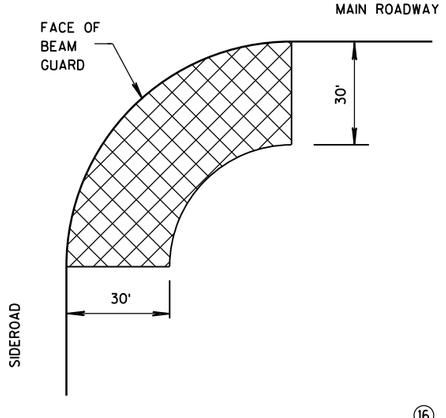
(17) TOP OF RAIL HEIGHT IS 27" WHEN USING A SHORT RADIUS TERMINAL.



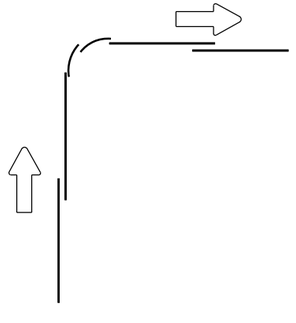
CONTROLLED RELEASE TERMINAL POST (CRT) IN RADIUS



BEAM GUARD POSTS IN HEIGHT TRANSITION



AREA FREE OF FIXED OBJECTS (16) RADIUS GREATER THAN 32'



LAP SPLICE DETAIL

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 117

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S.D.D. 14 B 53-1a

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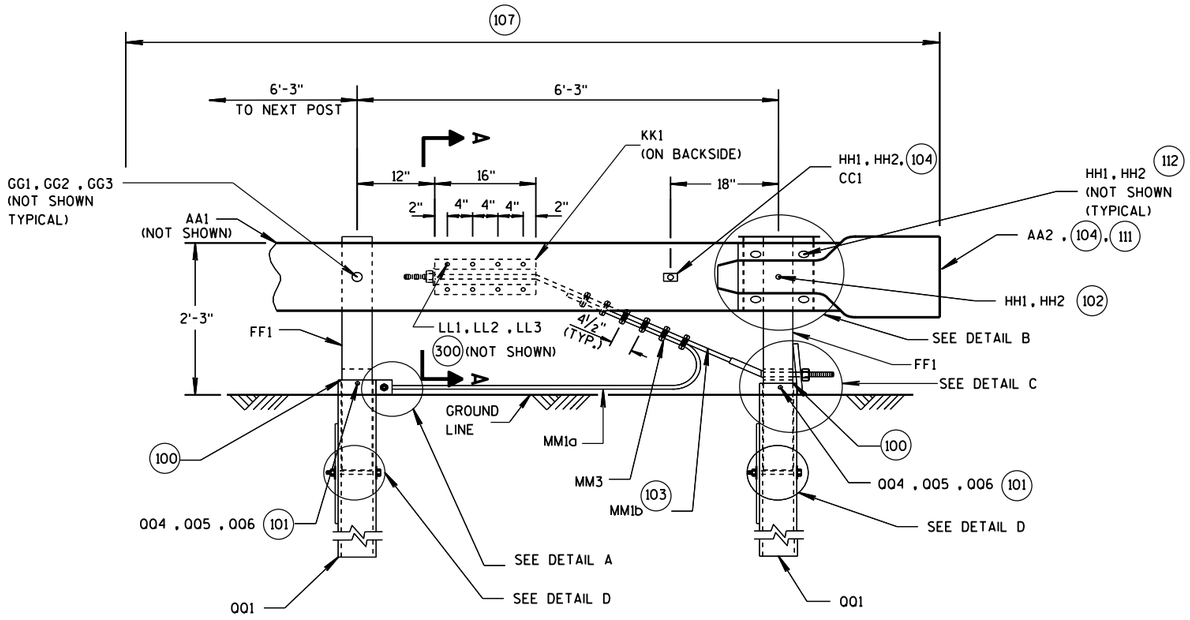
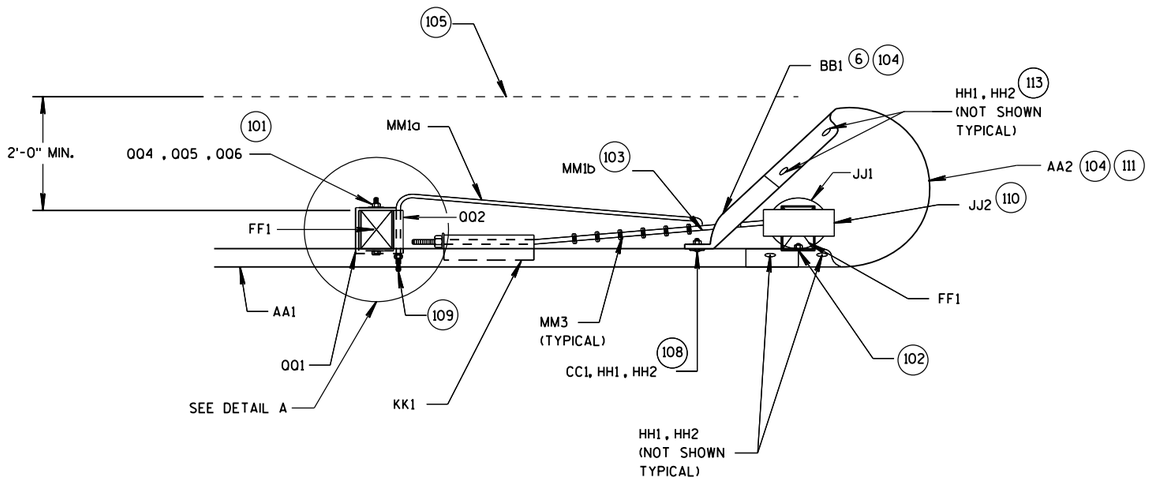
S.D.D. 14 B 53-1a



SHORT RADIUS TERMINAL
PROFILE VIEW



SHORT RADIUS TERMINAL
TOP VIEW

(100) TOP OF FOUNDATION TUBE 2 INCHES MAXIMUM ABOVE FINISHED GROUND.

(101) WASHERS REQUIRED BETWEEN BOLT HEAD AND FOUNDATION TUBE AND BETWEEN NUT AND FOUNDATION TUBE.

(102) SPLICE BOLT AND NUT CONNECTS BEAM GUARD RAIL, W-BEAM END SECTION BUFFER, AND STEEL PIPE ASSEMBLY. NO WASHER REQUIRED. SEE DETAIL B.

(103) CABLE IS TAUT.

(104) ADJUST AA2 AND BB1 TO FIT.

(105) BREAK POINT OF SHOULDER.

(106) TACK WELD CABLE CONNECTOR TUBE PLATE TO CABLE CONNECTION TUBE. SEE DETAIL A PROFILE VIEW.

(107) PAY LIMIT FOR BEAM GUARD.

(108) SQUARE WASHER BETWEEN HEAD OF BOLT AND TRAFFIC FACE OF BEAM GUARD. ROUND WASHER REQUIRED BETWEEN NUT AND BB1.

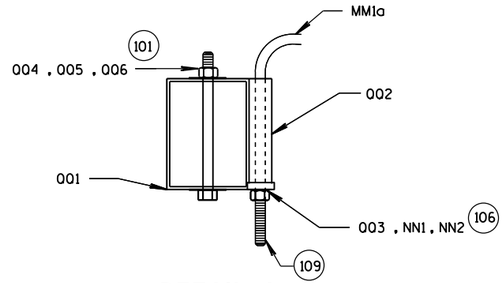
(109) CUT OR PROVIDE THREADED STUD THAT IS FLUSH WITH FACE OF BEAM GUARD RAIL KK1 (PLUS OR MINUS 1/2" TOLERANCE). DEBURR AFTER CUTTING.

(110) SEE STEEL PIPE ASSEMBLY DETAILS.

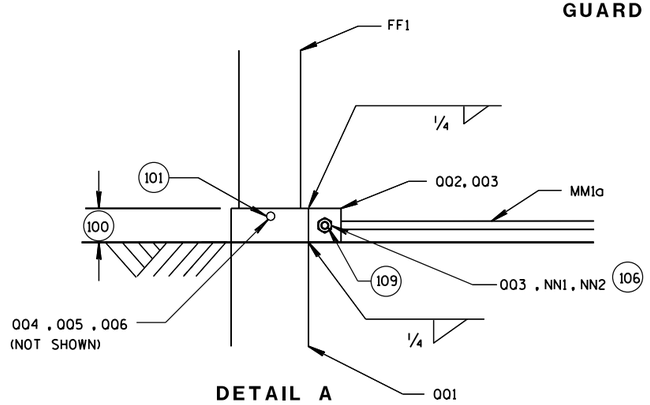
(111) ATTACH UU2 WITH UU3. SHOP APPLY UU1 TO UU2.

(112) FOUR HH1 AND HH2 REQUIRED TO ATTACH AA1 TO AA2.

(113) FOUR HH1 AND HH2 REQUIRED TO ATTACH AA2 TO BB1.



DETAIL A
TOP VIEW
(WOOD BREAKAWAY AND BEAM GUARD RAIL POSTS NOT SHOWN)



DETAIL A
PROFILE VIEW

STEEL PLATE BEAM GUARD
SHORT RADIUS TERMINAL
MGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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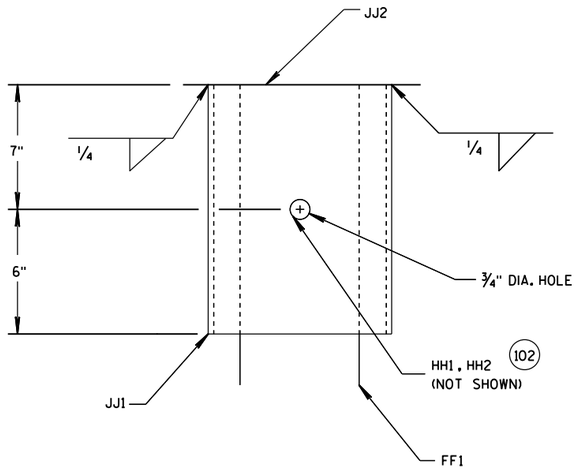
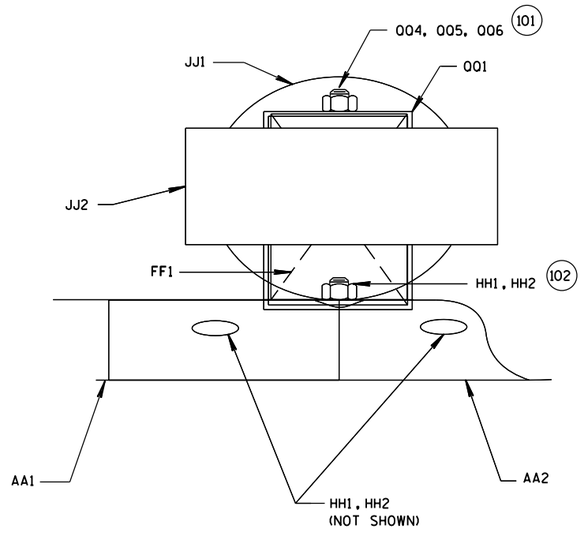
S.D.D. 14 B 53-1b

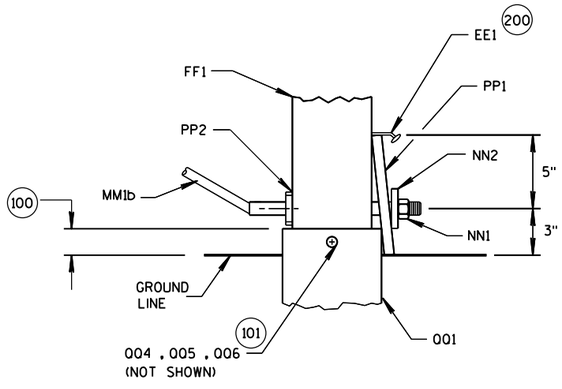


DETAIL B
PROFILE VIEW OF STEEL PIPE ASSEMBLY
(BEAM GUARD AND W-BEAM
END SECTION NOT SHOWN)

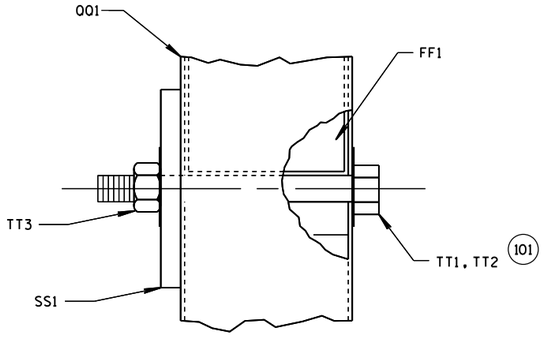


DETAIL B
PLAN VIEW OF STEEL PIPE ASSEMBLY

200 2 NAILS SPACED 4 INCHES CENTER TO CENTER.



DETAIL C
PROFILE VIEW



DETAIL D
PROFILE VIEW

SHORT RADIUS BEAM GUARD
(MGS) SHORT RADIUS
TERMINAL (MGS)

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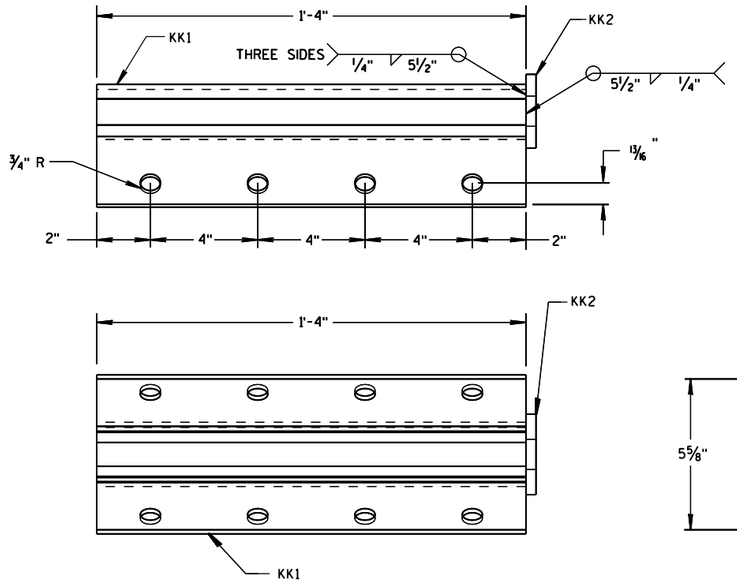
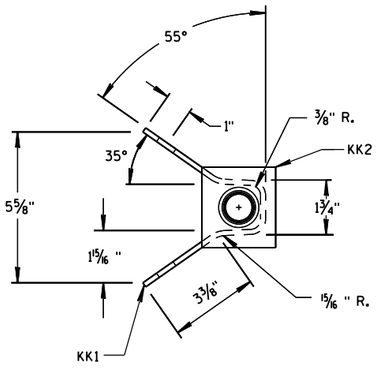
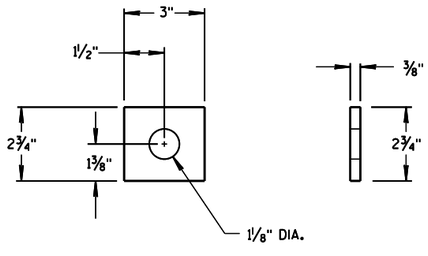
(300) WASHERS REQUIRED BETWEEN BOLT HEAD AND BEAM GUARD RAIL AND BETWEEN NUT AND ANCHOR BRACKET. EIGHT LL1 AND LL3 REQUIRED. SIXTEEN LL2 REQUIRED.

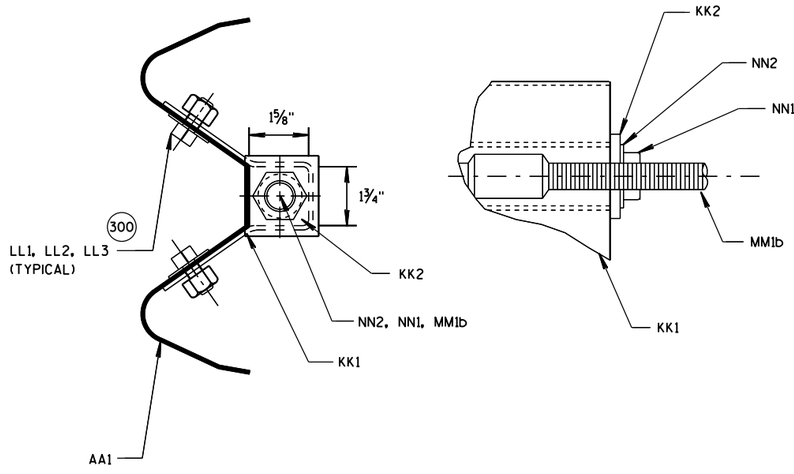




ANCHOR BRACKET (KK1, KK2)



ANCHOR BRACKET BEARING PLATE (KK2)



SECTION A-A

SHORT RADIUS BEAM GUARD
(MGS) SHORT RADIUS
TERMINAL (MGS)

STATE OF WISCONSIN
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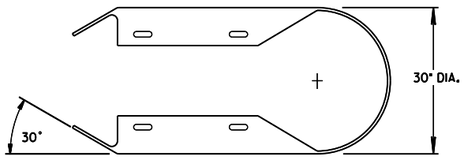
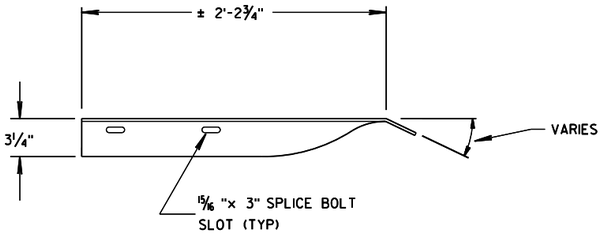
S.D.D. 14 B 53-1d



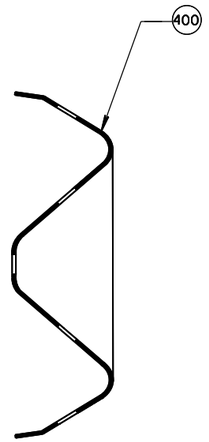
TOP VIEW



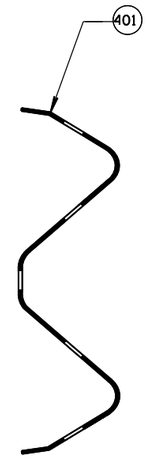
TOP VIEW

(400) CROSS SECTON OF PART IS TO FIT OVER AA1.

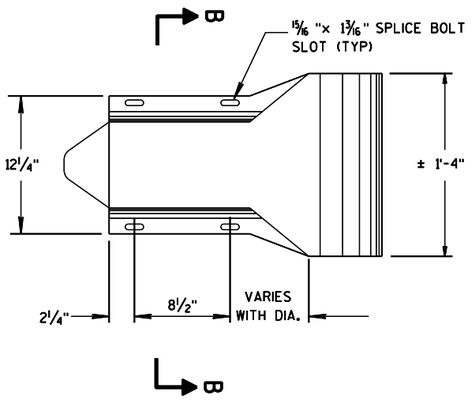
(401) CROSS SECTON OF PART IS TO FIT OVER OR UNDER AA1.



SECTION B-B

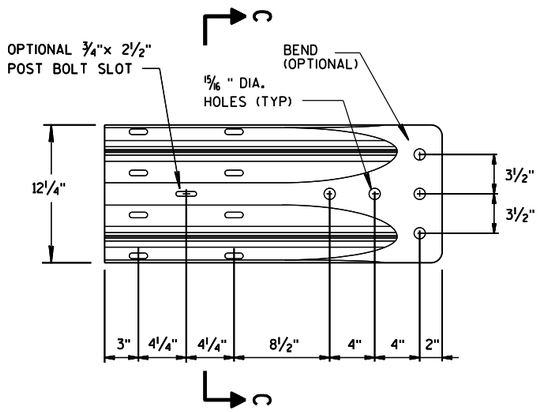


SECTION C-C



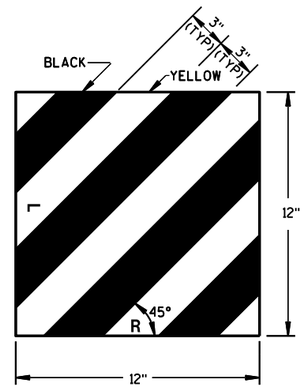
W-BEAM
END SECTION BUFFER (AA2)

PROFILE VIEW



W-BEAM
TERMINAL CONNECTOR (BB1)

PROFILE VIEW



REFLECTIVE SHEETING
(UU1, UU2)

SHORT RADIUS BEAM GUARD
(MGS) SHORT RADIUS
TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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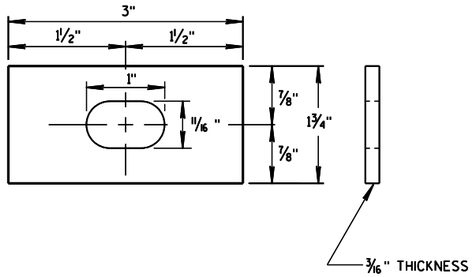
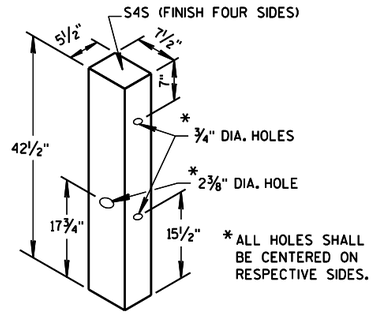
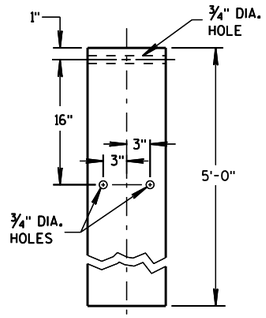


RECTANGULAR PLATE WASHER (CC1)



WOOD BREAKAWAY POST (FF1)



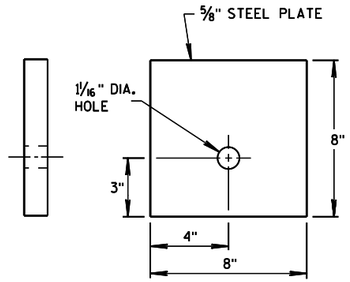
FOUNDATION TUBE (QQ1) (500)

(500) SEE DETAIL "D" FOR LOCATION AND ATTACHING SS1.

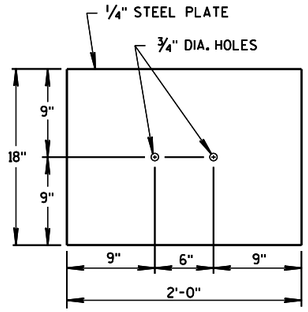
(501) FOR MM1a THREADED STUD ONLY REQUIRED ON ONE END. SWAGED FITTING REQUIRED.

(502) LOCATE HOLES ON THE CENTERLINE OF THE SIDE OF THE POST.

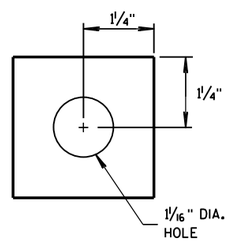
(503) MM1a MAY HAVE ONE THREADED STUD 4 INCHES LONG. SEE NOTE (109).



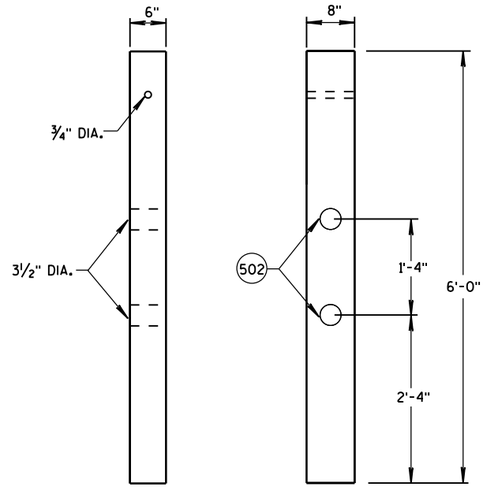
BEARING PLATE (PP1)



SOIL PLATE (SS1)

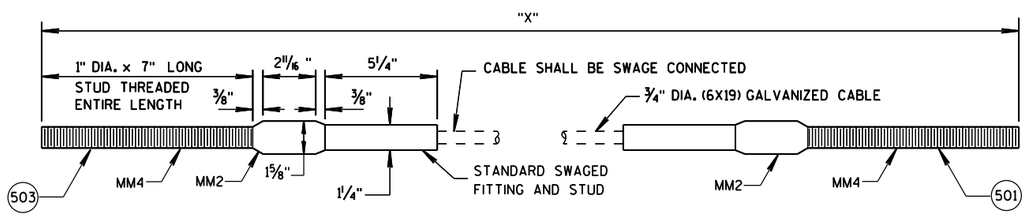


TUBE END PLATE (QQ3)



FRONT VIEW SIDE VIEW

CONTROLLED RELEASE TERMINAL POST (CRT) (D2)



"X" LENGTH	
MM1a	9'-0"
MM1b	6'-8"

CABLE ASSEMBLY (MM1a , MM1b)

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPOR

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S.D.D. 14 B 53-1f

BILL OF MATERIALS - SHORT RADIUS BEAM GUARD (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
A1	BEAM GUARD RAIL	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
A2	BEAM GUARD RAIL - SHOP BENT	INDICATE ON BACK OF RAIL RADIUS THAT RAIL WAS BENT TO. SHOP BEND RADIUS IS TO THE NEAREST FOOT. FOLLOW AASHTO M180 ON HOW TO MARK RADIUS INFORMATION.	
		AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
B1	BLOCK - WOOD	WISDOT SPEC. 614	SEE SDD 14B42
C1	NAIL	ASTM A153 HOT DIP CLASS D	
		ASTM F1667 TYPE 1 STYLE 12 (16 DOUBLE HEAD)	
D1	POST-STRONG POST-WOOD	WISDOT SPEC. 614	SEE SDD 14B42
D2	POST-CRT-WOOD	WISDOT SPEC. 614	
E1	POST BOLT	ASTM A307 GRADE A OR SAE J429 GRADE 2	5/8" DIA. SEE SDD 14B42 FOR BOLT GEOMETRY
		AASHTO M180	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		UNC	
E2	POST BOLT-WASHER	ASTM F436 TYPE 1 (HARDEN TYPICALLY USED WITH STEEL) OR ASTM F844 (UNHARDENED TYPICALLY WITH WOOD)	5/8" DIA.
		GALV. AASHTO M111/ASTM A 123 OR GALV. HOT DIP. TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329	
E3	POST BOLT - NUT		5/8" DIA. SEE SDD 14B42 FOR GEOMETRY
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		UNC	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		ASTM A563 GRADE A HEAVY HEX HEAD	
F1	SPLICE BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		ASTM A307 GRADE A OR SAE J429 GRADE 2	5/8" DIA. SEE SDD 14B42 FOR GEOMETRY AND OTHER INFORMATION
		UNC	
		AASHTO M180	

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
F2	SPLICE BOLT - NUT	ASTM A563 GRADE A	5/8" DIA. SEE SDD 14B42 FOR GEOMETRY
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C/ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
G1	LAG SCREW	ASTM A308 GRADE A ASTM A153 CLASS D	3/8" DIA. 3" LONG
H1	DELINEATOR - BEAM GUARD		SEE SDD 14B42 FOR MORE INFORMATION
H2	DELINEATION - SHEETING	YELLOW OR WHITE	
		WISDOT SPEC 637 TYPE SH	
		APPROVED PRODUCT LIST	
J1	FOUNDATION BACKFILL	STANDARD SPEC. 614	
AA1	BEAM GUARD RAIL - PUNCHED	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
AA2	BEAM GUARD RAIL - END SECTION BUFFER	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
BB1	BEAM GUARD RAIL - TERMINAL CONNECTOR MODIFIED	AASHTO M180, CLASS A, TYPE 2	
		APPROVED PRODUCER	
CC1	SHORT RADIUS - SQUARE WASHER	AASHTO M180	
		GALV. AASHTO M111 / ASTM A123	
EE1	NAIL	ASTM A153 HOT DIP CLASS D	
		ASTM F1667 TYPE 1 STYLE 12 (16 DOUBLE HEADED)	
FF1	POST - BCT - WOOD	S4S FINISH ON 4 SIDES	
		WISDOT SPEC. 614	
GG1	POST BOLT	ASTM A307 GRADE A OR SAE J429 GRADE 2	3/8" DIA. SEE SDD 14B42 FOR GEOMETRY
		AASHTO M180	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		UNC	
GG2	POST BOLT - WASHER	ASTM F436 TYPE 1 (HARDEN TYPICALLY USED WITH STEEL) OR ASTM F844 (UNHARDENED TYPICALLY WITH WOOD)	3/8" DIA.
		GALV. AASHTO M111 / ASTM A123 OR5 GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	

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S.D.D. 14 B 53-1g

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

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S.D.D. 14 B 53-1g

BILL OF MATERIALS - SHORT RADIUS BEAM GUARD (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
GG3	POST BOLT - NUT	ASTM A563 GRADE A	3/8" DIA.
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	SEE 14B42 FOR GEOMETRY
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		UNC	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		ASTM A563 GRADE A HEAVY HEX HEAD	
HH1	SPLICE BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	3/8" DIA. SEE 14B42 FOR GEOMETRY
		ASTM A307 GRADE A OR SAE J429 GRADE 2	
		UNC	
		AASHTO M180 HEAD GEOMETRY	
HH2	SPLICE BOLT - NUT	ASTM A563 GRADE A	3/8" DIA.
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	SEE 14B42 FOR GEOMETRY
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		UNC	
JJ1	PIPE - STEEL	ASTM A53 GALVANIZED GRADE B SCHEDULE 40	10" O.D.
JJ2	TOP PLATE	ASTM A36 MIN STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	DIMENSIONS 3/8" X 4" X 1'-0"
		GALV. AASHTO M111 / ASTM A123	
KK1	ANCHOR BRACKET	ASTM A36 MIN STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / ASTM A123	
KK2	ANCHOR BRACKET - BEARING PLATE	ASTM A36 MIN STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / ASTM A123	
LL1	ANCHOR BRACKET - BOLT	ASTM A307 GRADE B HEAVY HEX HEAD OR SAE J429 GRADE 2 HEAVY HEX HEAD	5/8" DIA.
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		UNC	
LL2	ANCHOR BRACKET - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	5/8" DIA.
		GALV. AASHTO M111 / ASTM A123 OR5 GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
LL3	ANCHOR BRACKET - NUT	ASTM A563 GRADE A	5/8" DIA.
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A563	
		UNC	

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
MM1a	ANCHOR CABLE	AASHTO M30 / ASTM A741 INDEPENDENT WIRE CORE (IWRC) OR WIRE STRAND CORE (WCS), IMPROVED PLOW STEEL (IPS), 6X19, TYPE II OR IIc CLASS C ZINC COATED	
MM1b	ANCHOR CABLE	AASHTO M30 / ASTM A741 INDEPENDENT WIRE CORE (IWRC) OR WIRE STRAND CORE (WCS), IMPROVED PLOW STEEL (IPS), 6X19, TYPE II OR IIc CLASS C ZINC COATED	
MM2	ANCHOR CABLE - SWAGE FITTING	ASTM A576 GRADE 1035	
		SWAGE FITTINGS ARE TO BE FACTORY SWEDGED. WITH A BREAKING STRENGTH 40,000 LBS.	
		GALV. AASHTO M111 / ASTM A123	
		ASME B30.26 FORGED, CAST, OR DIE STAMPED WITH THE FOLLOWING INTO CONNECTION: NAME OF MANUFACTURER OR TRADEMARK OF CONNECTION'S MANUFACTURER, SIZE OR RATED LOAD, GRADE.	
MM3	WIRE ROPE CABLE CLAMPS	FF-C-450D TYPE 1 CLASS 1	3/4"
		ASTM A153 HOT DIP CLASS D	
MM4	ANCHOR CABLE - SWAGE FITTING - STUD	ASTM F3125 GRADE A325 TYPE 1 OR SAE GRADE 5 OR ASTM A449 TYPE 1 HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		UNC	
NN1	ANCHOR CABLE - NUT	ASTM A563 GRADE A	1" DIA.
		AASHTO M180 DOUBLE RECESSED HEAVY HEX HEAD	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		OVER TAPPED NUTS OVER-SIZE AS SPECIFIED IN AASHTO 291 / ASTM A563	
		UNC	
NN2	ANCHOR CABLE - NUT - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	1" DIA.
		GALV. AASHTO M111 / ASTM A123 OR5 GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
PP1	BEARING PLATE AT POST	ASTM A36 MIN STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / ASTM A123	
PP2	PIPE - STEEL	ASTM A53 GALVANIZED GRADE B SCHEDULE 40	2" DIA. x 6" LONG
QQ1	FOUNDATION TUBE	ASTM A500 GRADE B	8" X 6" X 3/16"
		GALV. AASHTO M111 / ASTM A123	
QQ2	SHORT RADIUS - FOUNDATION TUBE - ANCHOR CABLE - TUBE	ASTM A500 GRADE B	DIMENSIONS 2 1/2" X 2 1/4" X 1/4" X 8"
		GALV. AASHTO M111 / ASTM A123	

SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 53-1h

BILL OF MATERIALS - SHORT RADIUS BEAM GUARD (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
003	SHORT RADIUS - SOIL TUBE - ANCHOR CABLE - TUBE - END PLATE	ASTM A36 MIN STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	DIMENSIONS 2½" X 2½" X ¼"
		GALV. AASHTO M111 / ASTM A123	
004	GROUND STRUT AND YOKE - BOLT	GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	⅝" DIA.
		ASTM A307 GRADE B HEAVY HEX HEAD OR SAE J429 GRADE 2 HEAVY HEX HEAD	
		UNC	
005	GROUND PLATE AND YOKE - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	⅝" DIA.
		GALV. AASHTO M111 / ASTM A123 OR5 GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
006	GROUND STRUT AND YOKE - NUT	HEAVY HEX	⅝" DIA.
		UNC	
		ASTM A563 GRADE A	
		OVER TAPPED NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563	
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	
SS1	SOIL PLATE	ASTM A36 MIN STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI OR ASTM A709 MAX STRENGTH 50 KSI OR ASTM A992 MAX STRENGTH 50 KSI	
		GALV. AASHTO M111 / ASTM A123	
TT1	SOIL PLATE - BOLT	ASTM A307 GRADE B HEAVY HEX HEAD OR SAE J429 GRADE 2 HEAVY HEX HEAD	⅝" DIA.
		GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1/ASTM B695 CLASS 50, TYPE 1	
		UNC	
TT2	SOIL PLATE - WASHER	ASTM F436 TYPE 1 (HARDEN WASHER ONLY)	⅝" DIA.
		GALV. AASHTO M111 / ASTM A123 OR5 GALV. HOT DIP TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM F2329	
TT3	SOIL PLATE - NUT	GALV. HOT DIP TO AASHTO M232 CLASS C/ASTM A153 CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 50, TYPE 1	⅝" DIA.
UU1	OBJECT MARKER - SHEETING	MUTCD / WISDOT OBJECT MARKER TYPE 3	PATTERN AND COLOR FOR SHEETING SHEETING TYPE FOR MARKER
		WISDOT SPEC 637 TYPE F	
		APPROVED PRODUCT LIST	
UU2	OBJECT MARKER - ALUMINUM PLATE	WISDOT SPEC 637 ALUMINUM PLATE	MATERIAL AND THICKNESS OF MATERIALS
UU3	OBJECT MARKER - SCREWS	STAINLESS SELF-TAPPING SCREWS	
VV1	FOUNDATION BACKFILL	WISDOT SPEC 614	

6

S.D.D. 14 B 53-1i

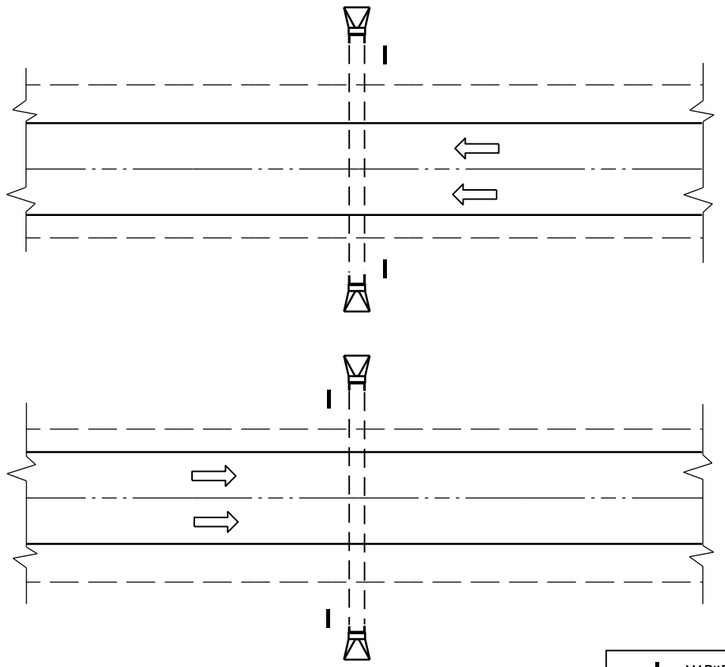
SHORT RADIUS BEAM GUARD (MGS) SHORT RADIUS TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D
UNIT SUPERVI
NT
FHWA

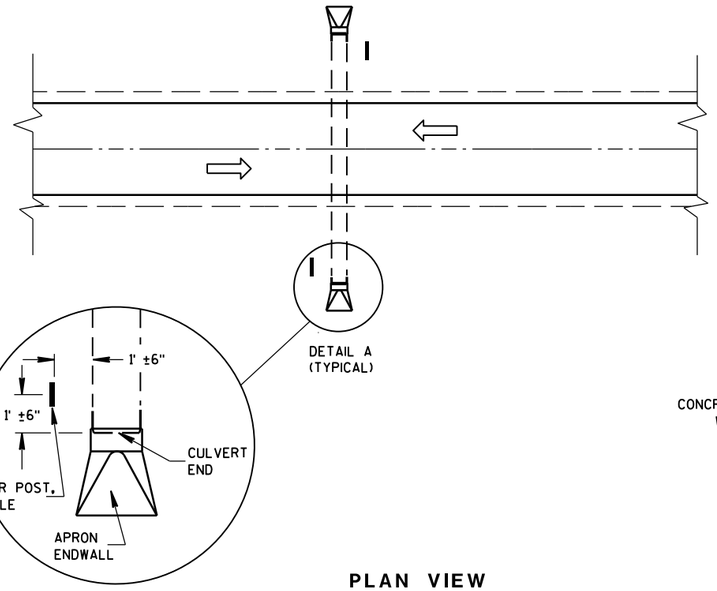
6

S.D.D. 14 B 53-1i



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

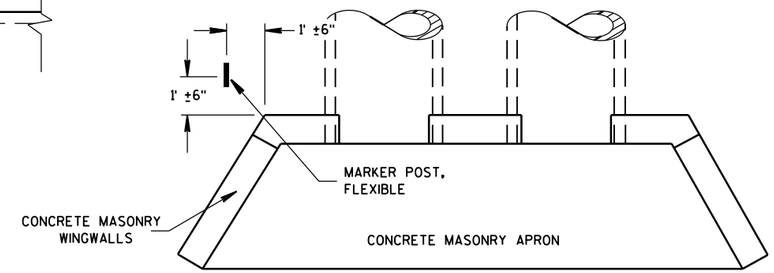
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

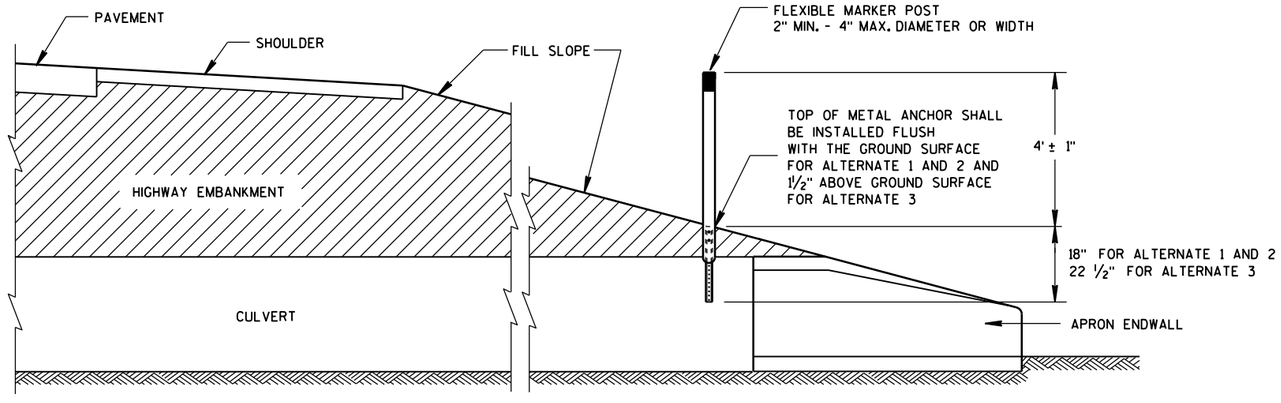
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



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

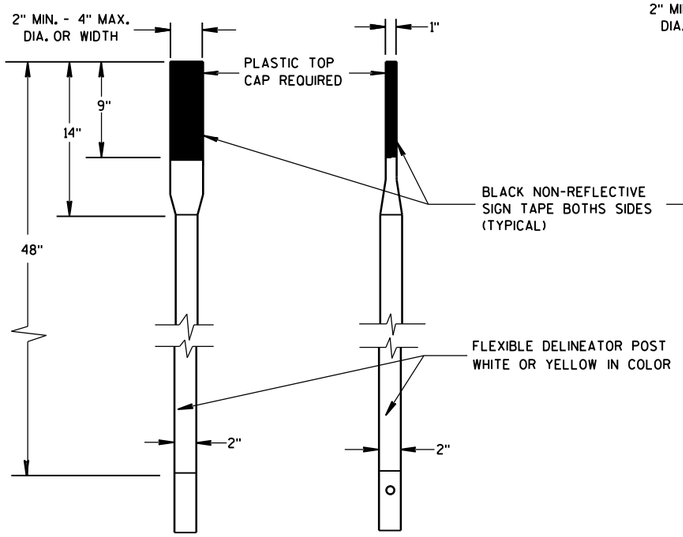
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

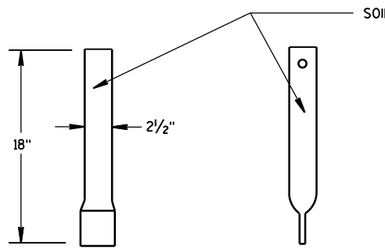
6

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

6

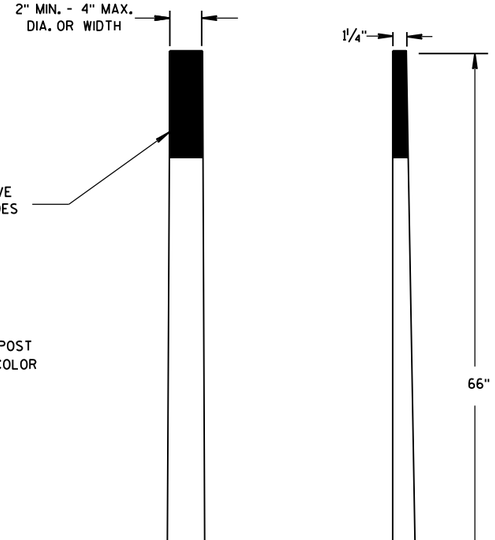
S.D.D. 15 A 3-2a





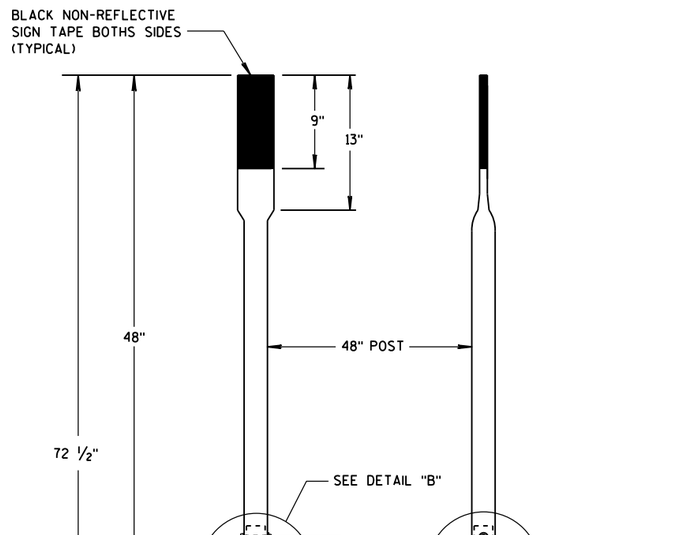
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

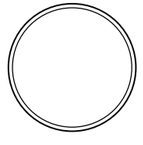
ALTERNATE 2



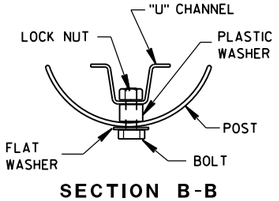
FRONT VIEW SIDE VIEW

ALTERNATE 3

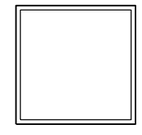
FLEXIBLE MARKER POSTS



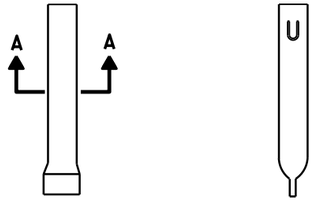
SECTION A-A



SECTION B-B

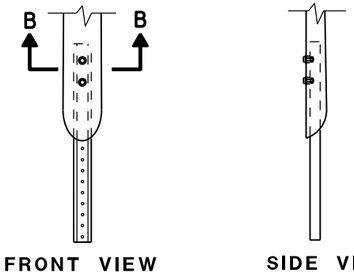


SECTION C-C



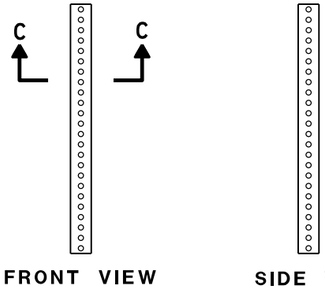
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

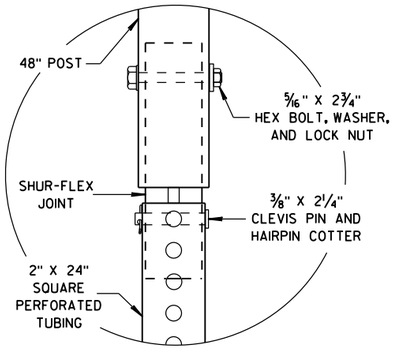
ALTERNATE 2



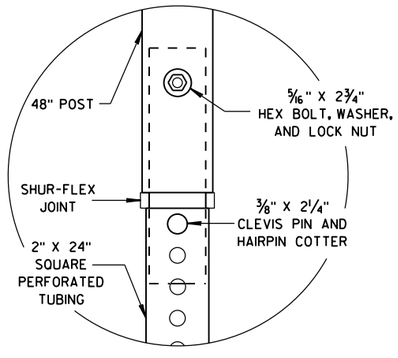
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

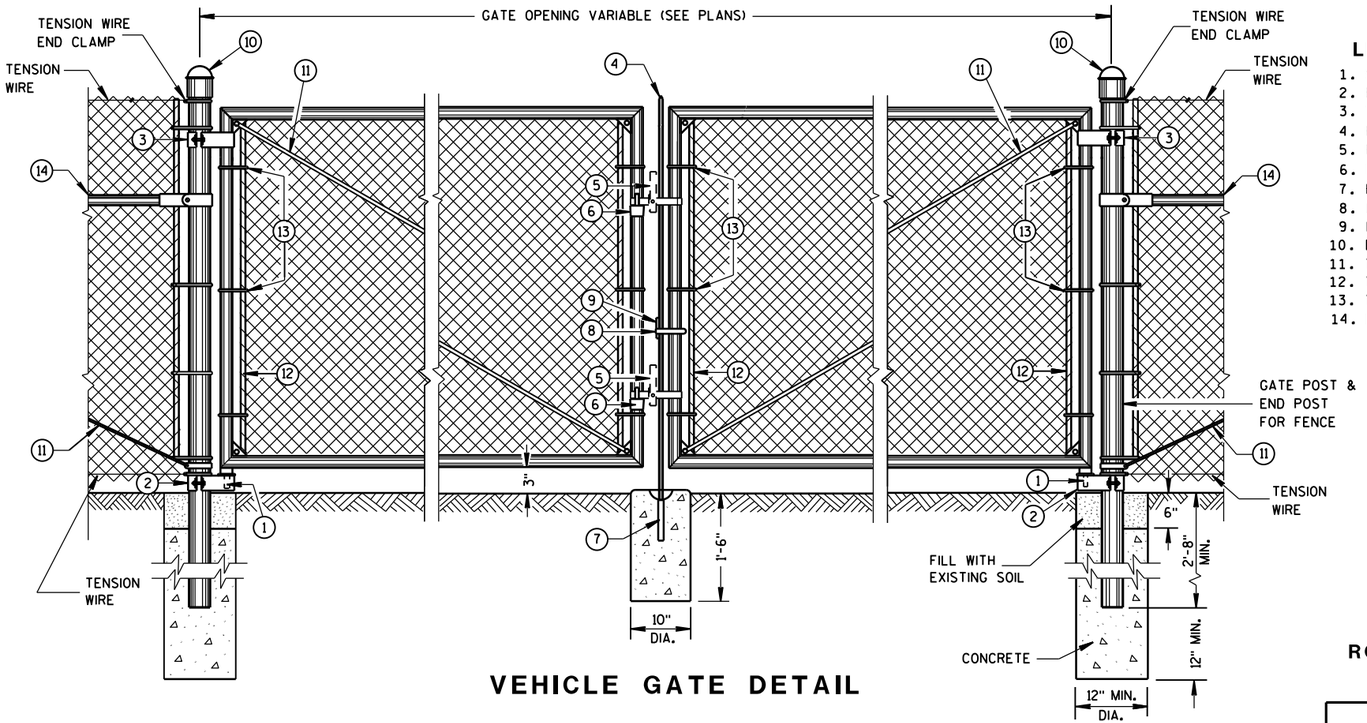
APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

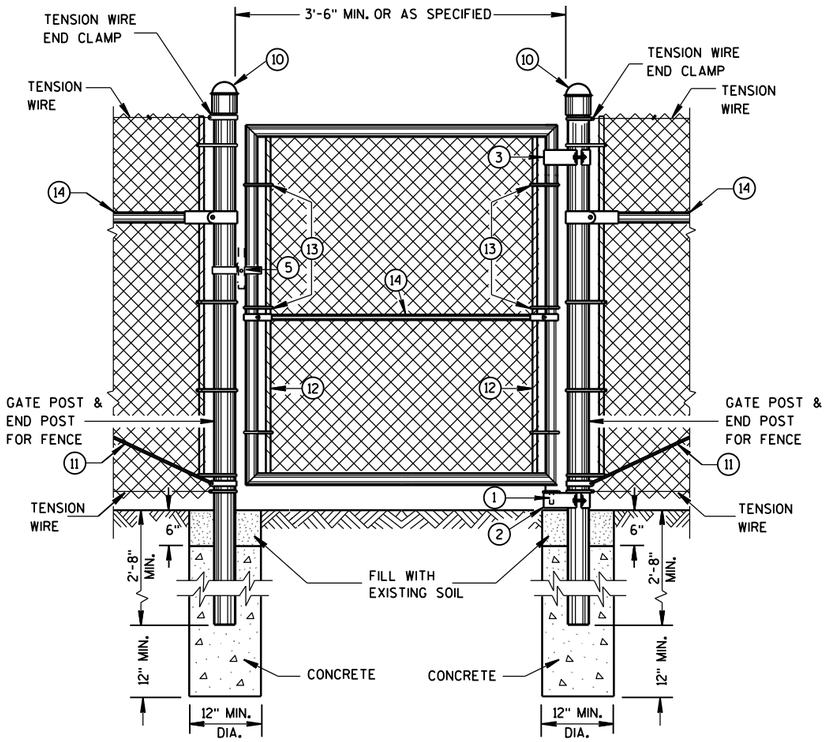
S.D.D. 15 A 3-2b

6

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



VEHICLE GATE DETAIL



PEDESTRIAN GATE DETAIL

LEGEND

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

*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

GENERAL NOTES

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

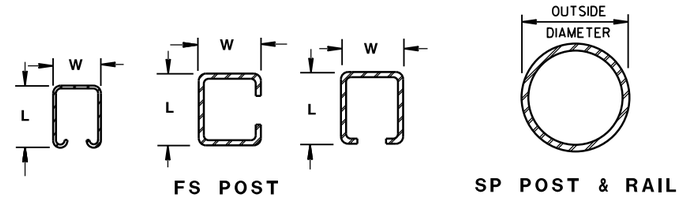
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

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

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

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

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



CROSS SECTIONS OF POSTS AND RAILS

REQUIRED FENCE POST SIZES

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

BRACE RAIL TYPES

USE		TYPE
BRACE RAIL		SP1 OR FS1

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

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

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

REQUIRED POST SIZE FOR GATES

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

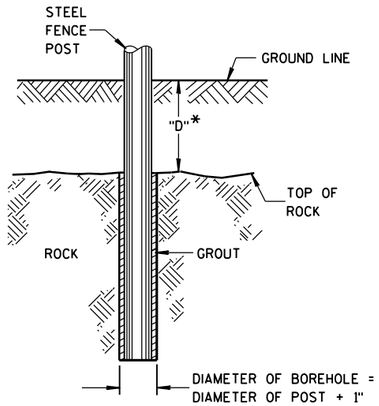
ROUND STEEL FENCE POST (1.8 OZ./SQ. FT. COATING)

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

FENCE CHAIN LINK

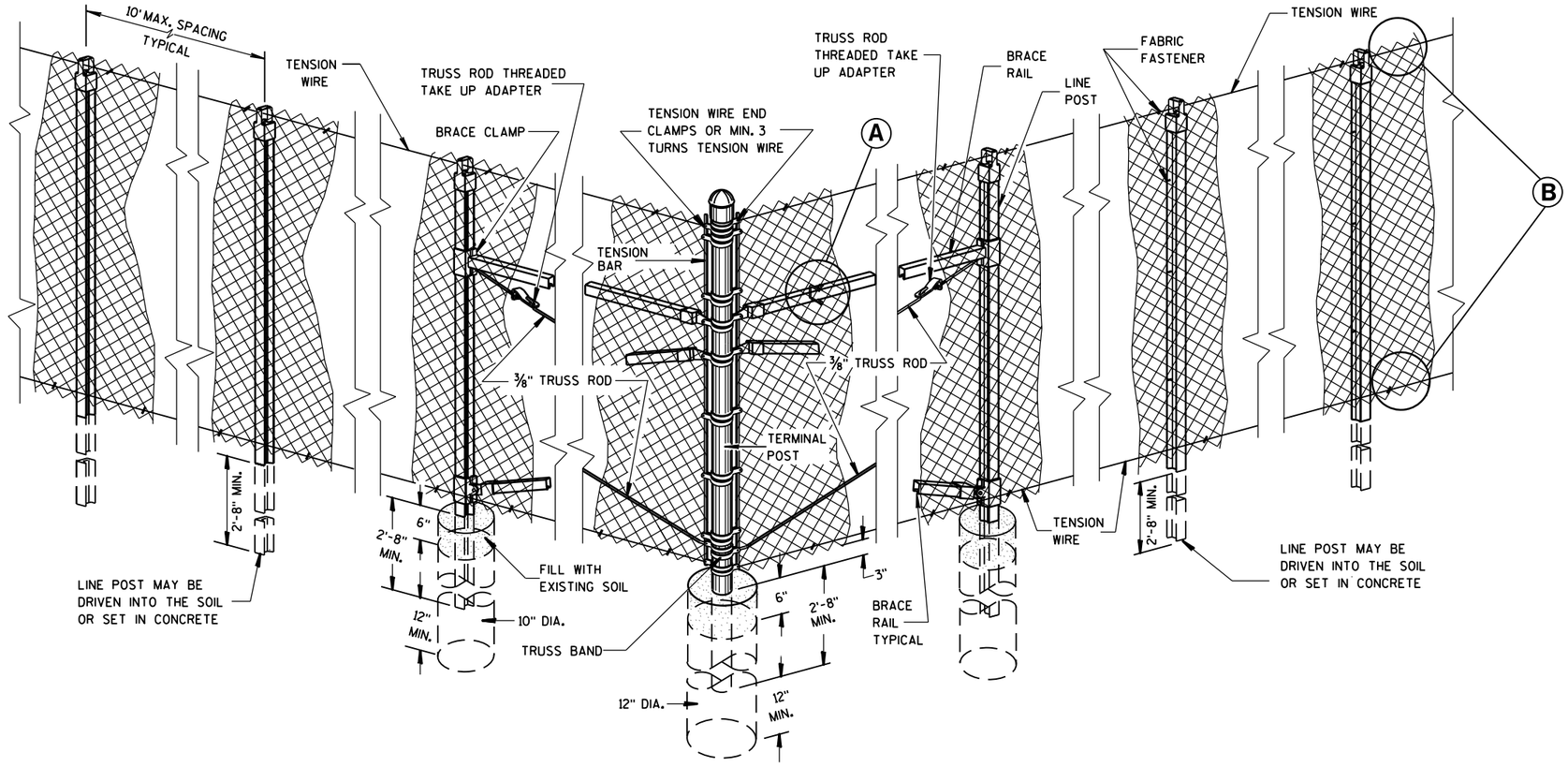
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 15 B 3-15a

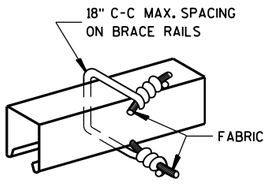


*IF "D" IS LESS THAN 2'-6", DRILL ROCK AND INSTALL GROUT

ROCK INSTALLATION OF LINE POST



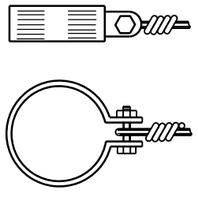
END, CORNER, ANGLE INTERSECTION & INTERMEDIATE BRACED POSTS



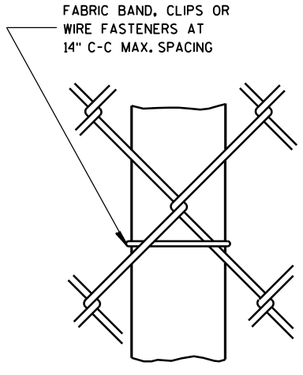
BRACE RAIL

FABRIC FASTENER

Ⓐ



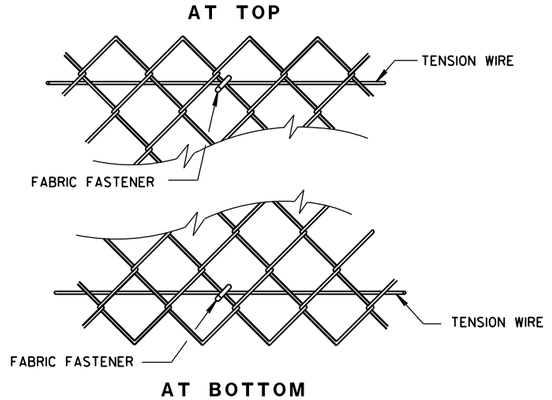
TENSION WIRE END CLAMP



LINE POST

FABRIC FASTENER

AT TOP



AT BOTTOM

SELVAGES

Ⓑ

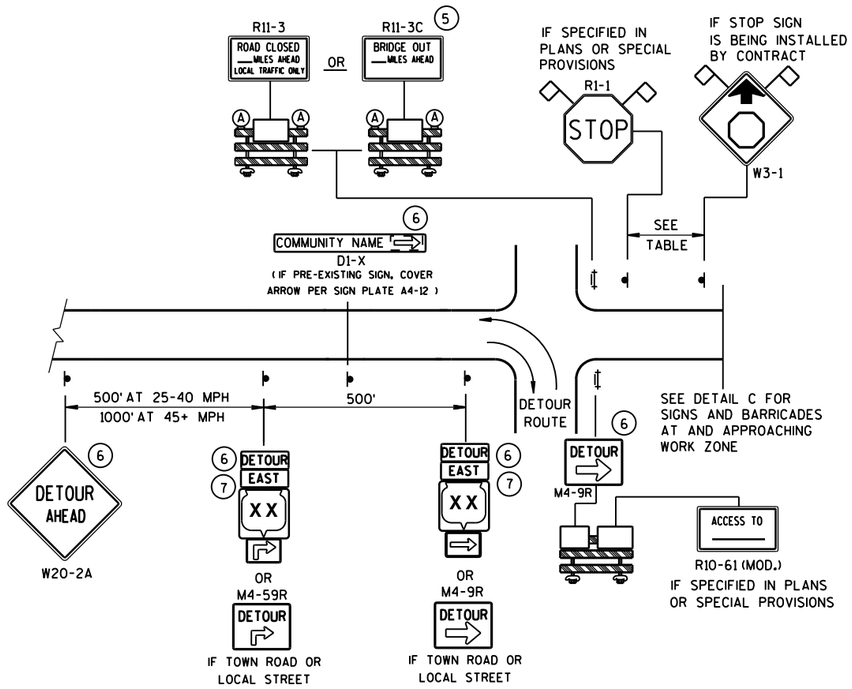
FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
FEB. 2015 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

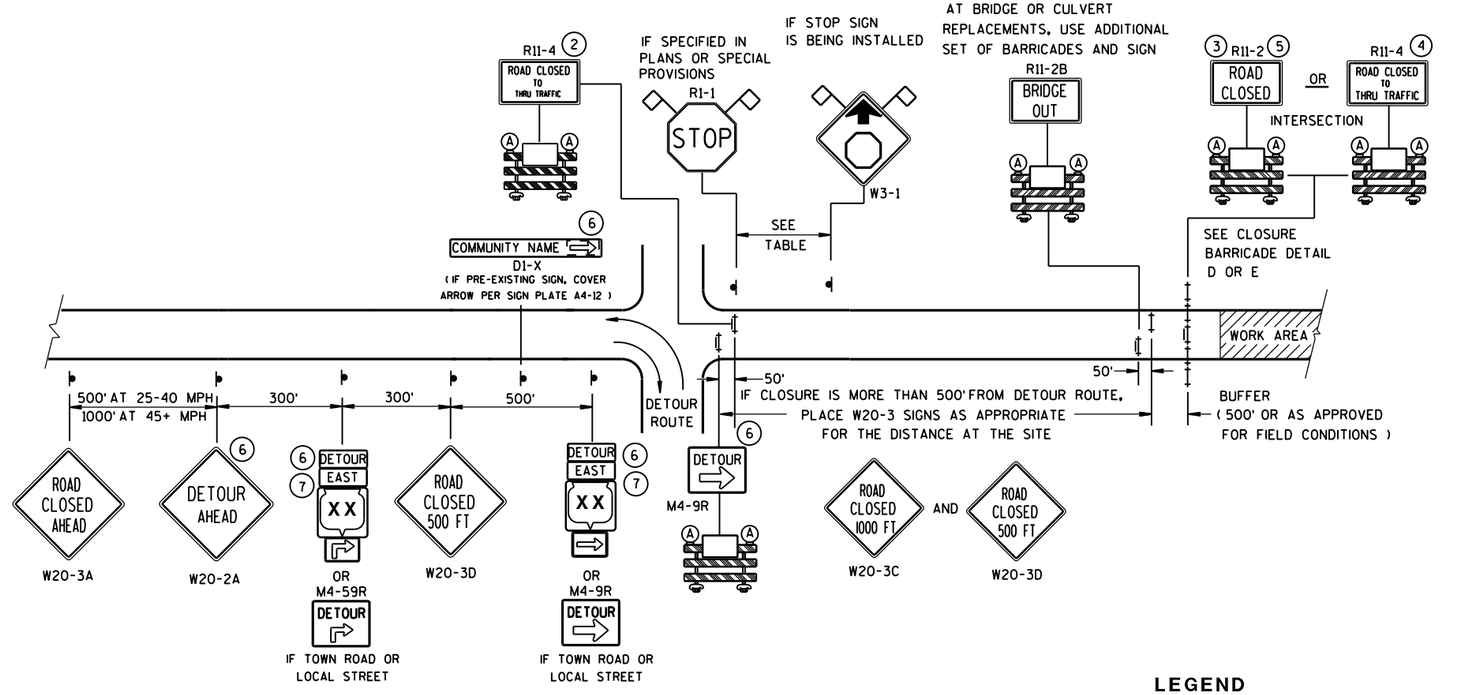
6

S.D.D. 15 B 3-15b



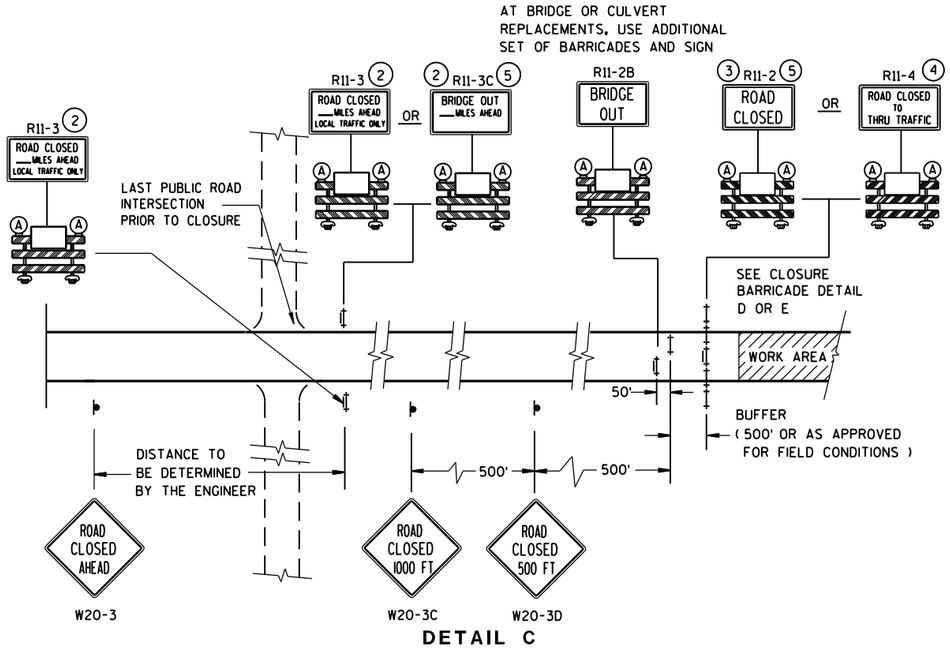
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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

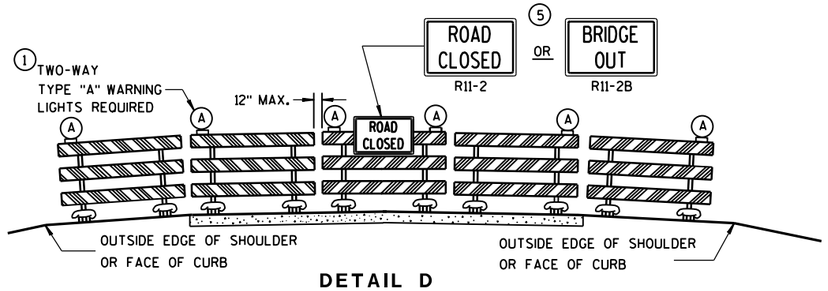
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

6

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

6

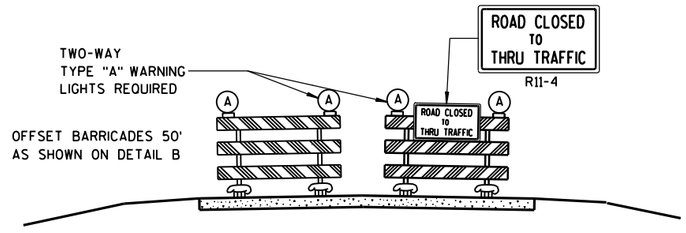
S.D.D. 15 C 2-6a



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.

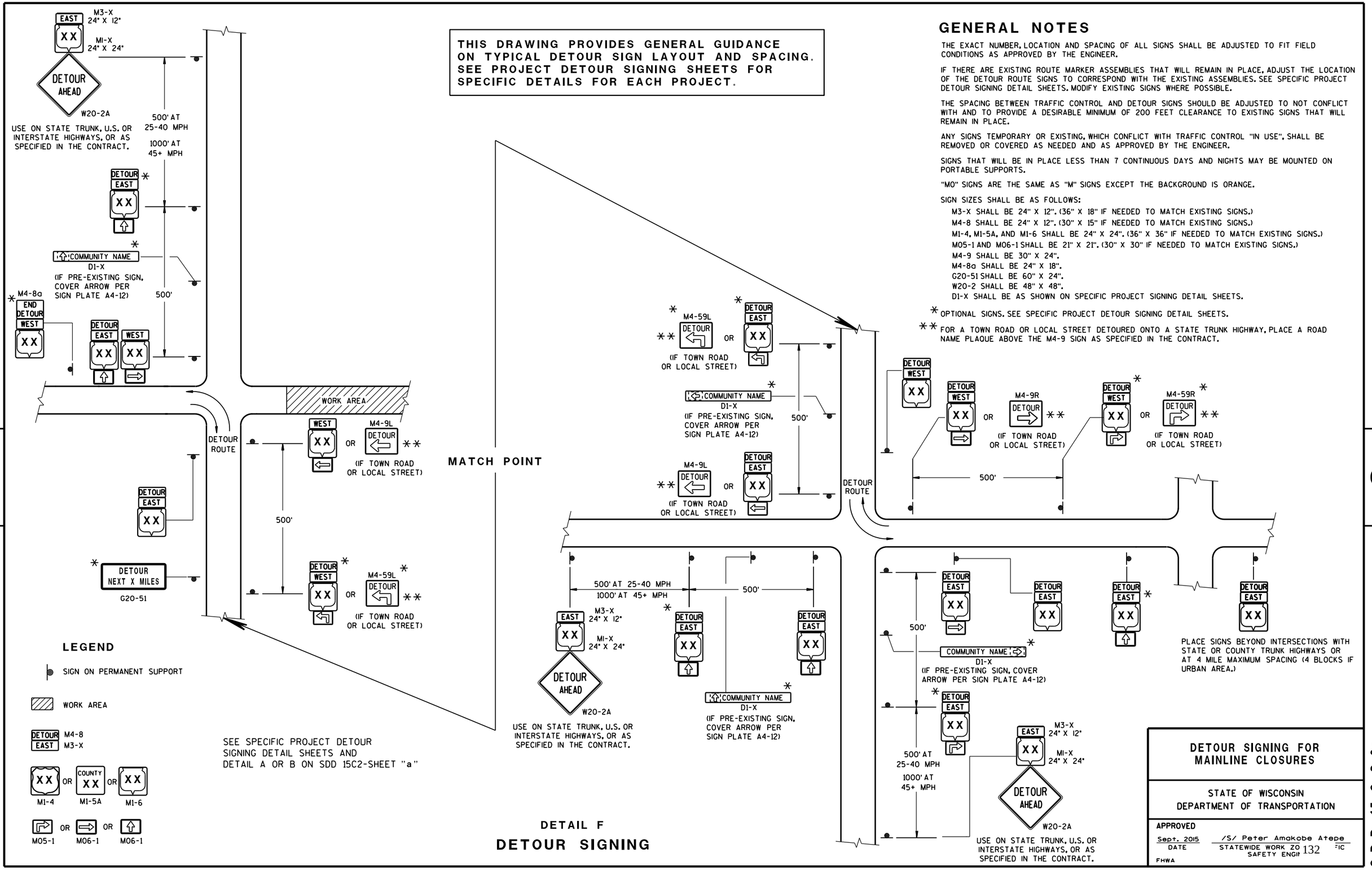
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

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.)
- MO5-1 AND MO6-1 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

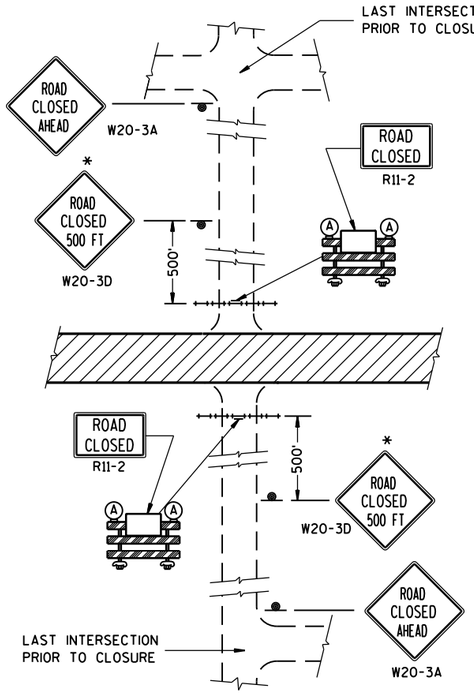
APPROVED

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible] FIC
SAFETY ENGI[illegible]

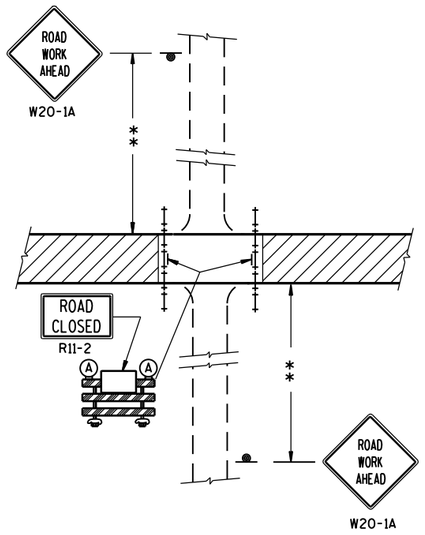
FHWA

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



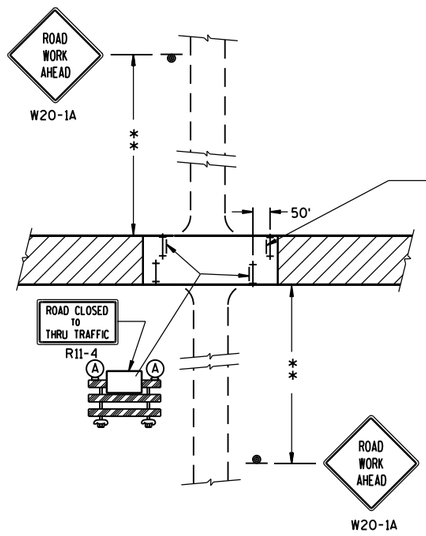
DETAIL 1

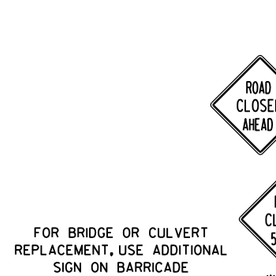
(NO ACCESS TO PROJECT)

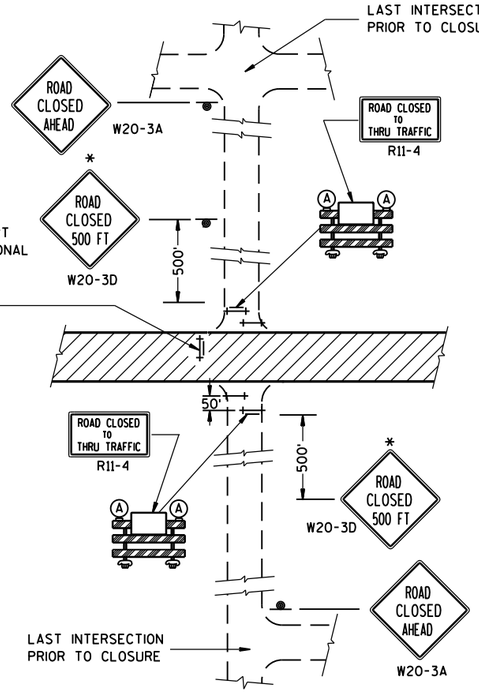


DETAIL 2

(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... SAFETY ENGI... — FHWA

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S.D.D. 15 C 3-3

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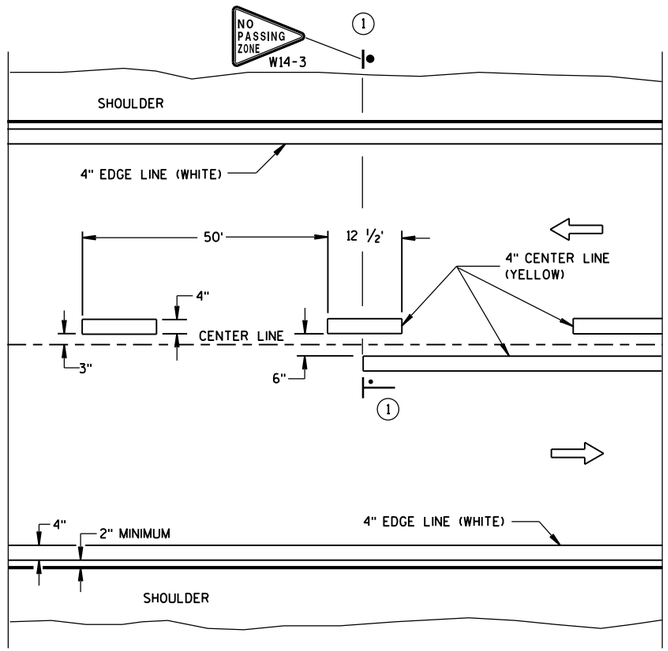
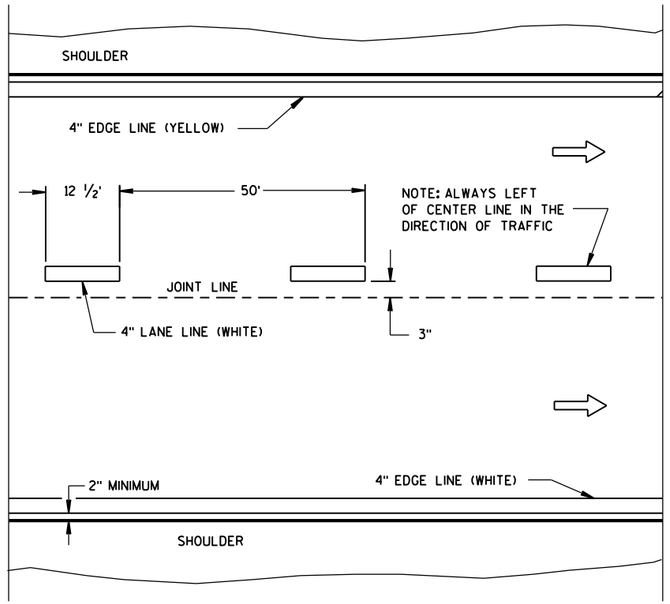
S.D.D. 15 C 3-3



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

GENERAL NOTES

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

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

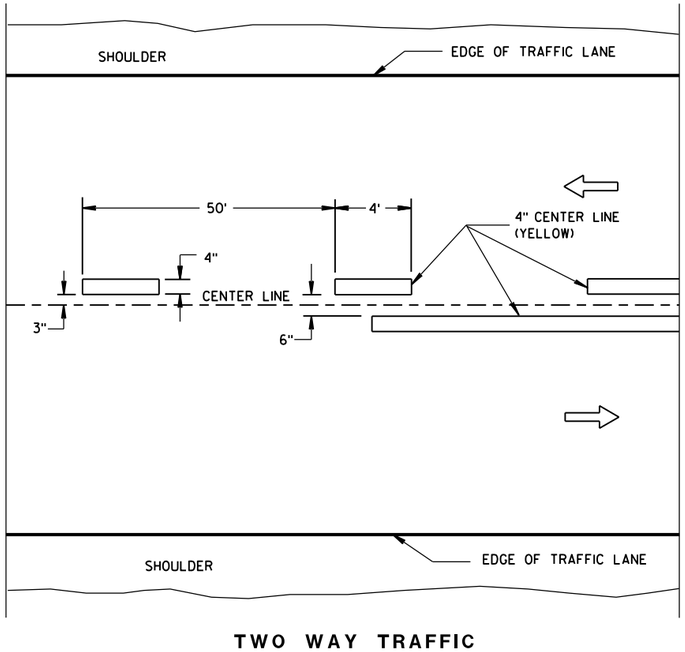
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

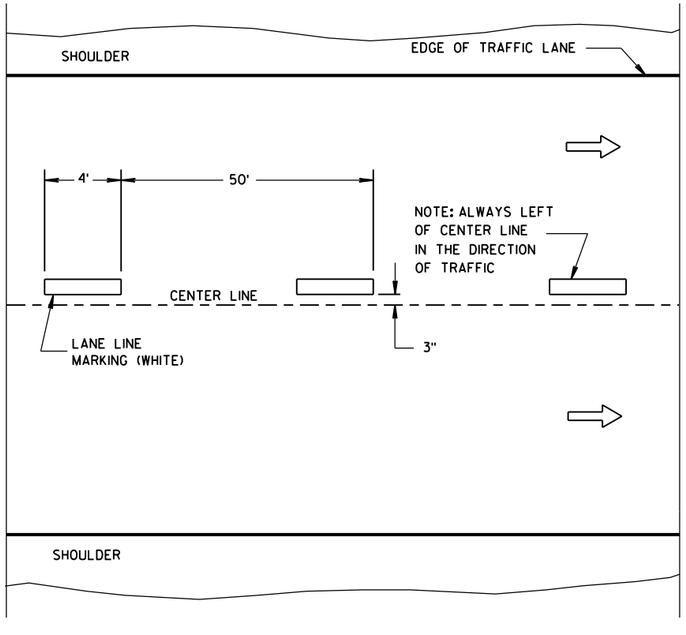
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

LONGITUDINAL MARKING (MAINLINE)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE	/S/ Matthew R. Rauch STATE SIGNING AND MAR[illegible]INEER
FHWA	

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S.D.D. 15 C 8-18a

6

S.D.D. 15 C 8-18a

LEGEND

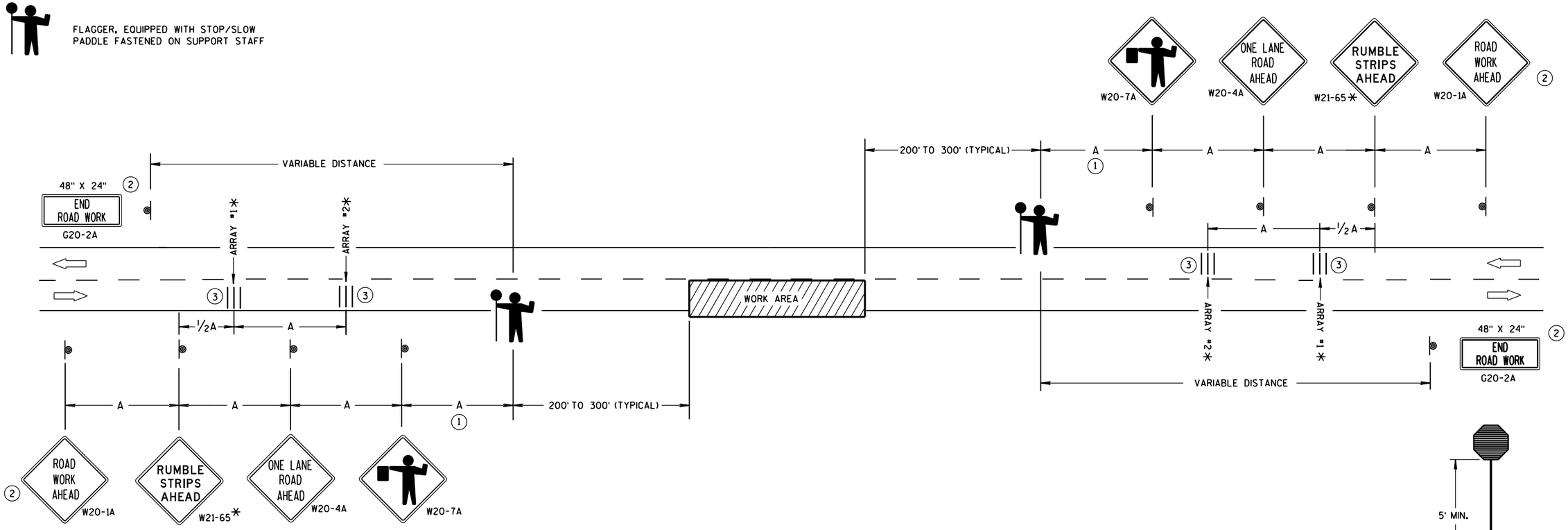
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

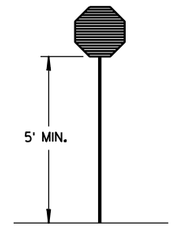
SPEED LIMIT	SPACING A
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

W03-4

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



STOP/SLOW PADDLE ON SUPPORT STAFF

GENERAL NOTES

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

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

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

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

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

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

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

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

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

(1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

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

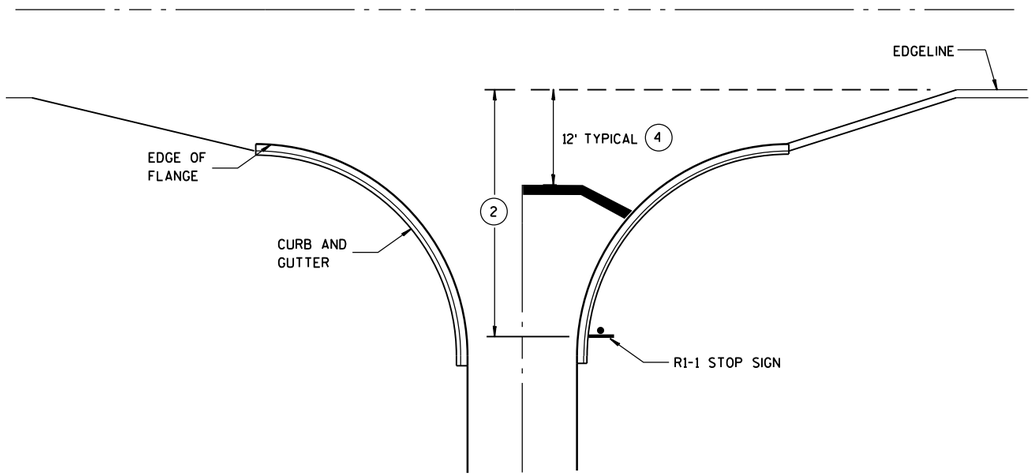
TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

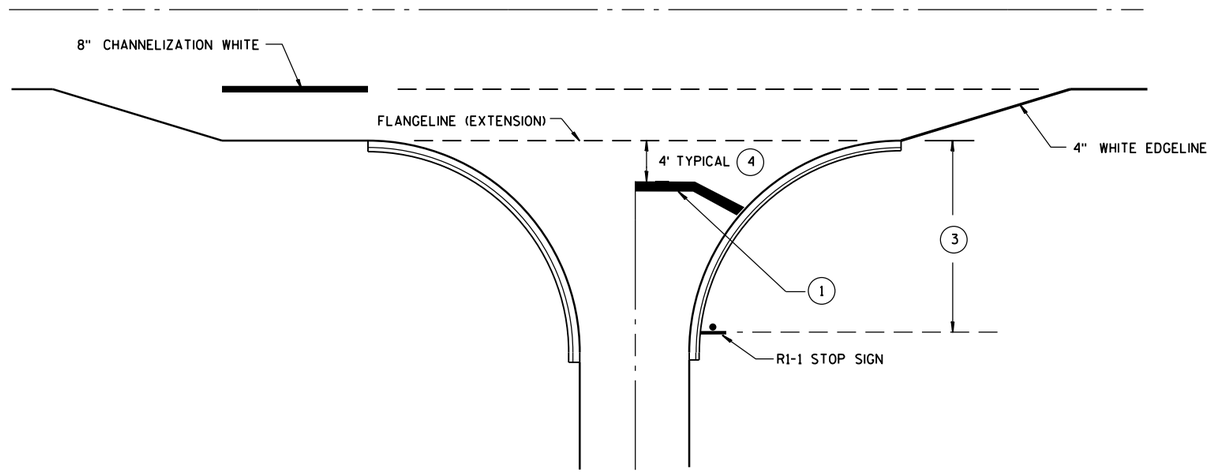
APPROVED
June 2017
DATE
/S/ Andrew Heldtke
WORK ZONE ENG
FHWA

6

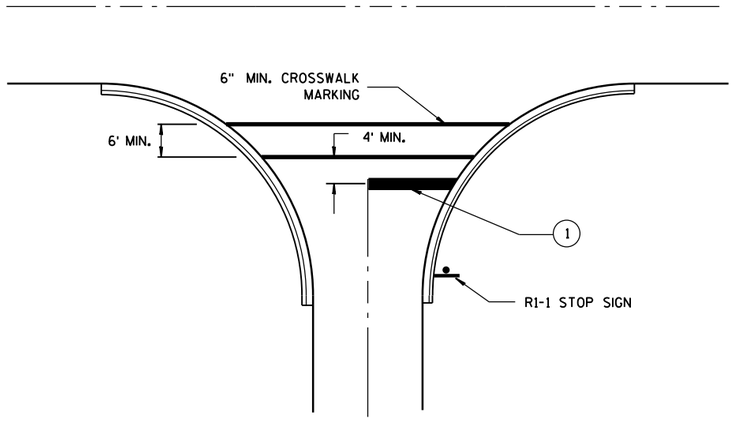
S.D.D. 15 C 12-6



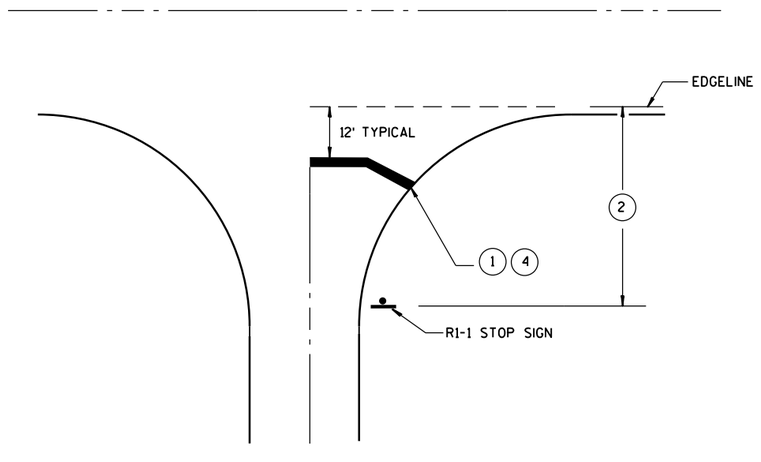
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

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[illegible]NEER

FHWA

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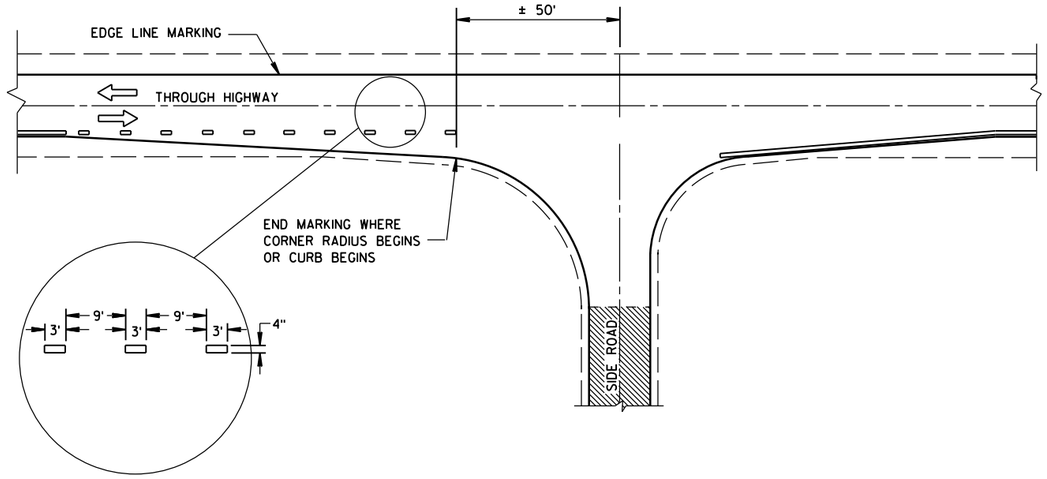
S.D.D. 15 C 33-2



MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

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

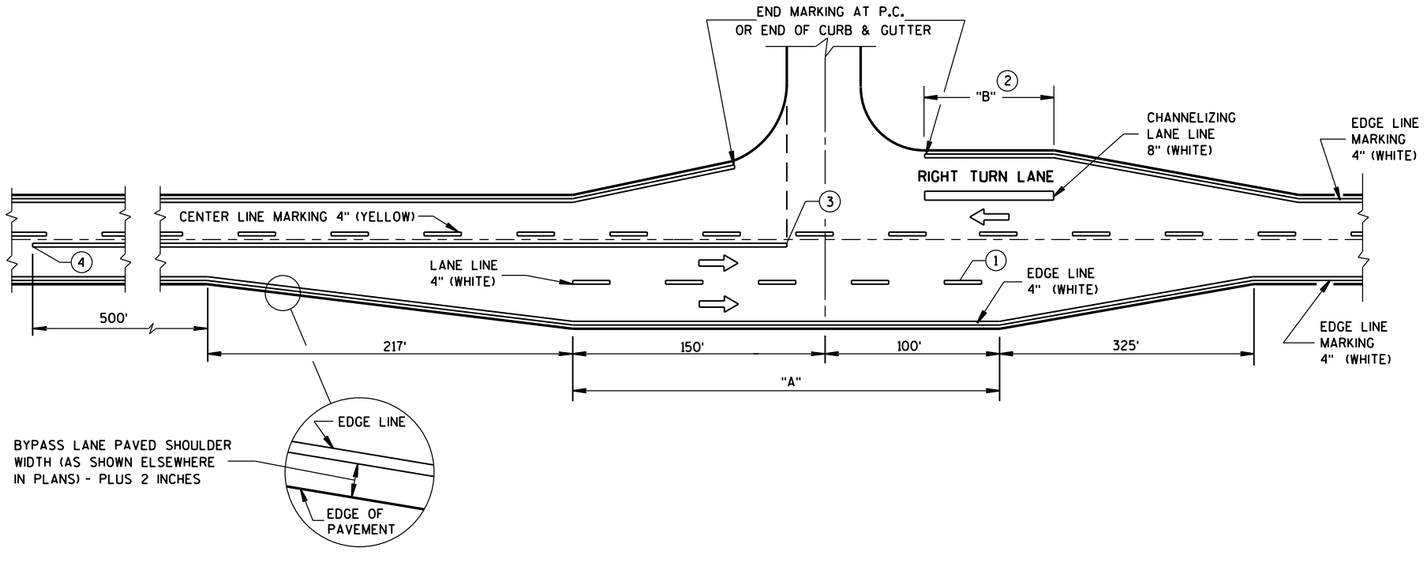
(1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.

(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

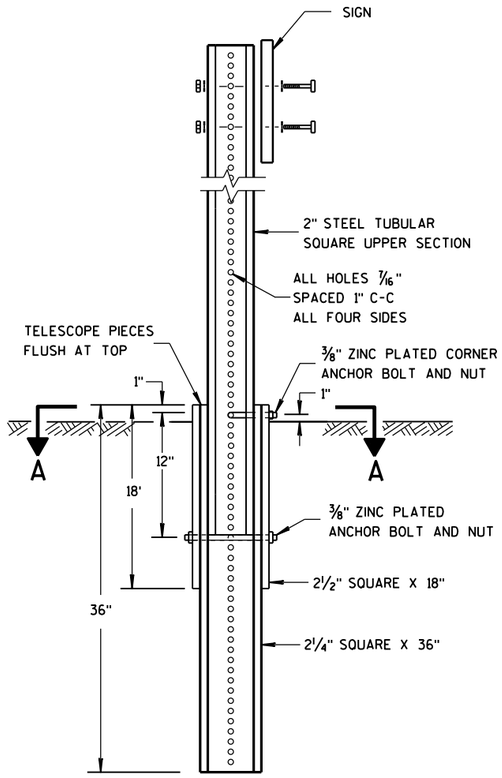
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)

PAVEMENT MARKING
(INTERSECTIONS)

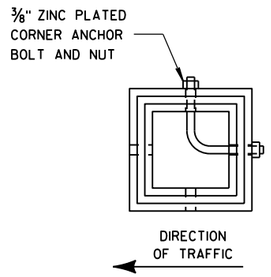
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

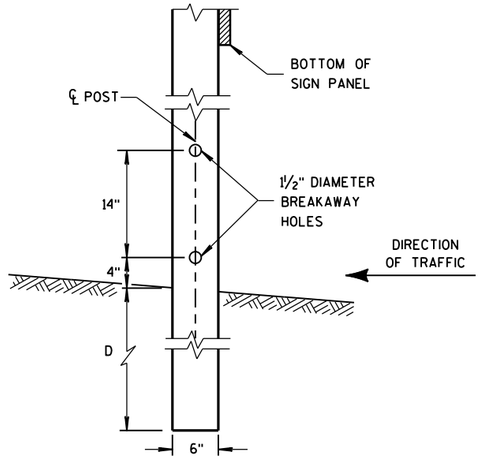
S.D.D. 15 C 35-1a



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



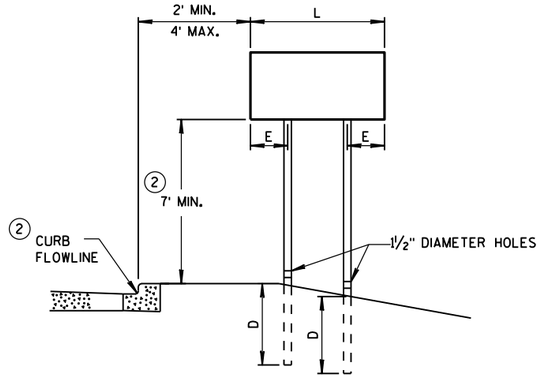
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

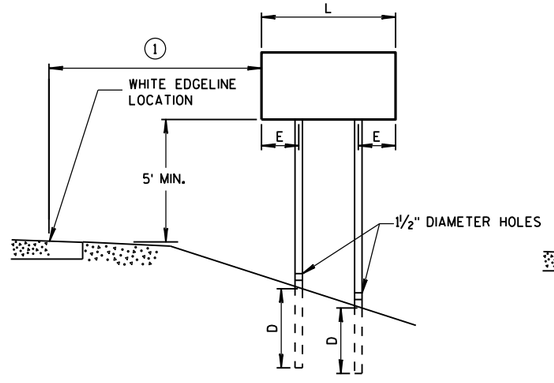
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

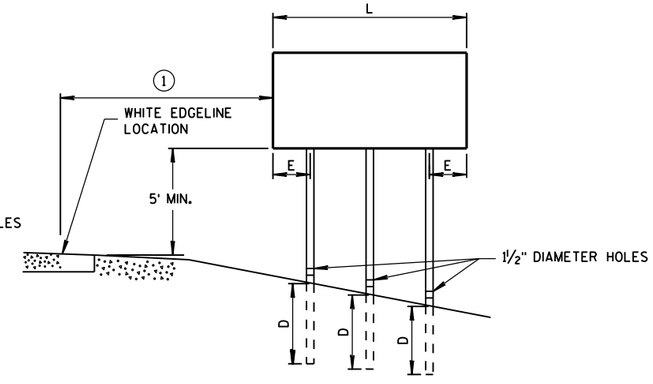
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK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

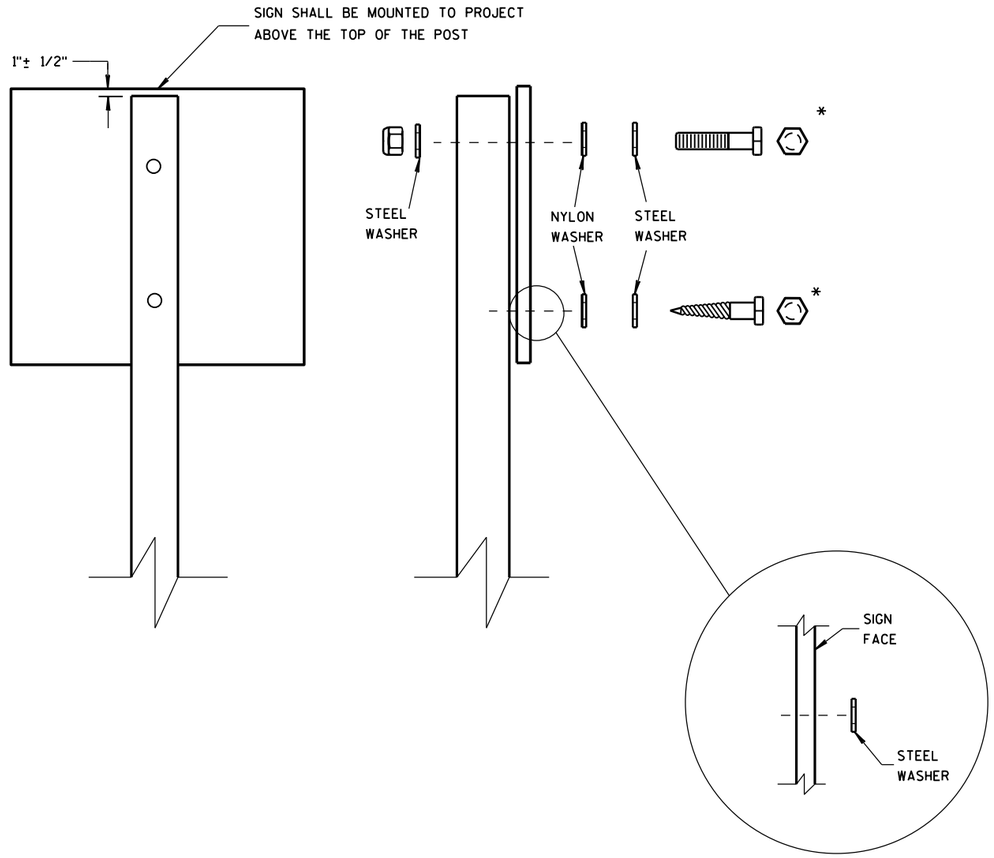
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 D 38-2a



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 38-2b

S.D.D. 15 D 38-2b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

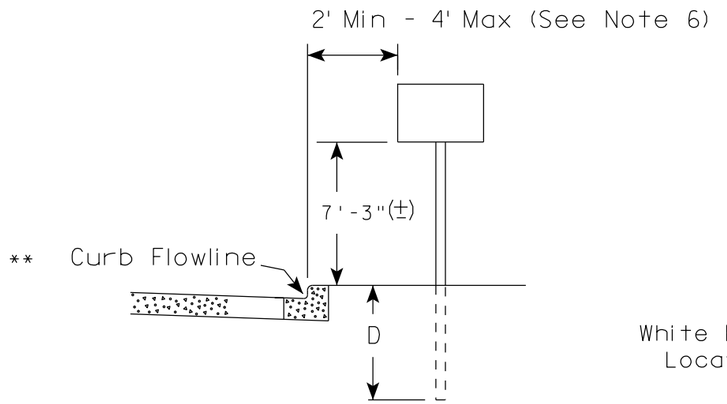
APPROVED

June 2017
DATE

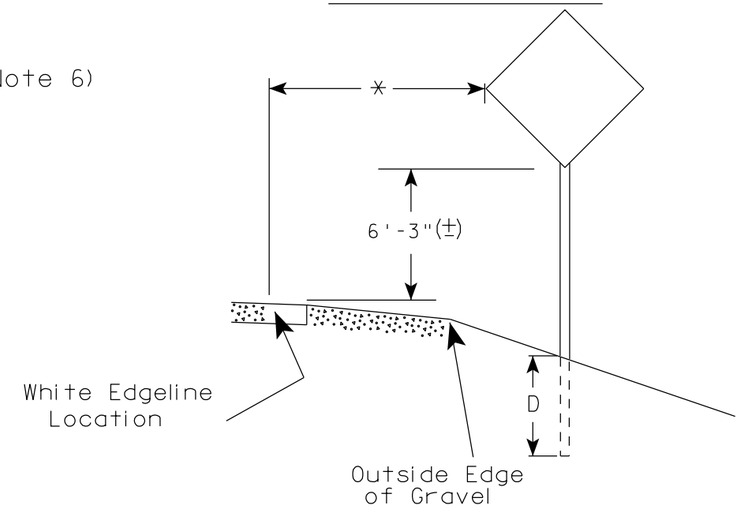
/S/ Andrew Heldtke
WORK ZONE ENG

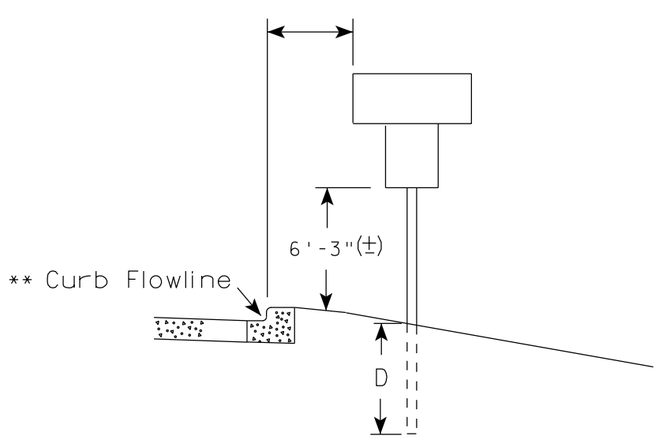
FHWA

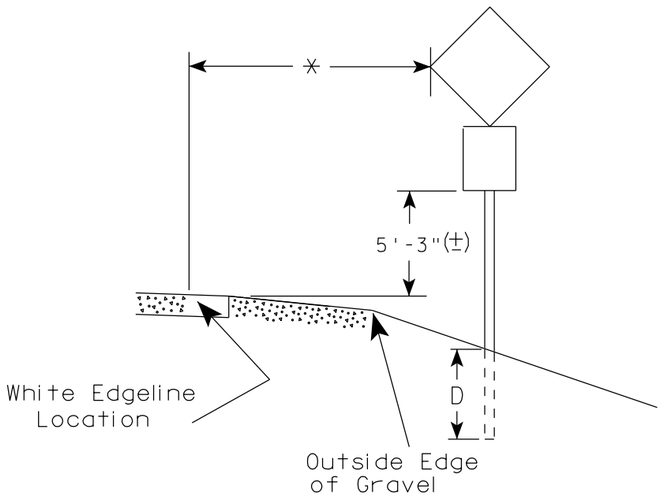
URBAN AREA



RURAL AREA (See Note 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. 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.

POST EMBEDMENT DEPTH

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

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" (±).

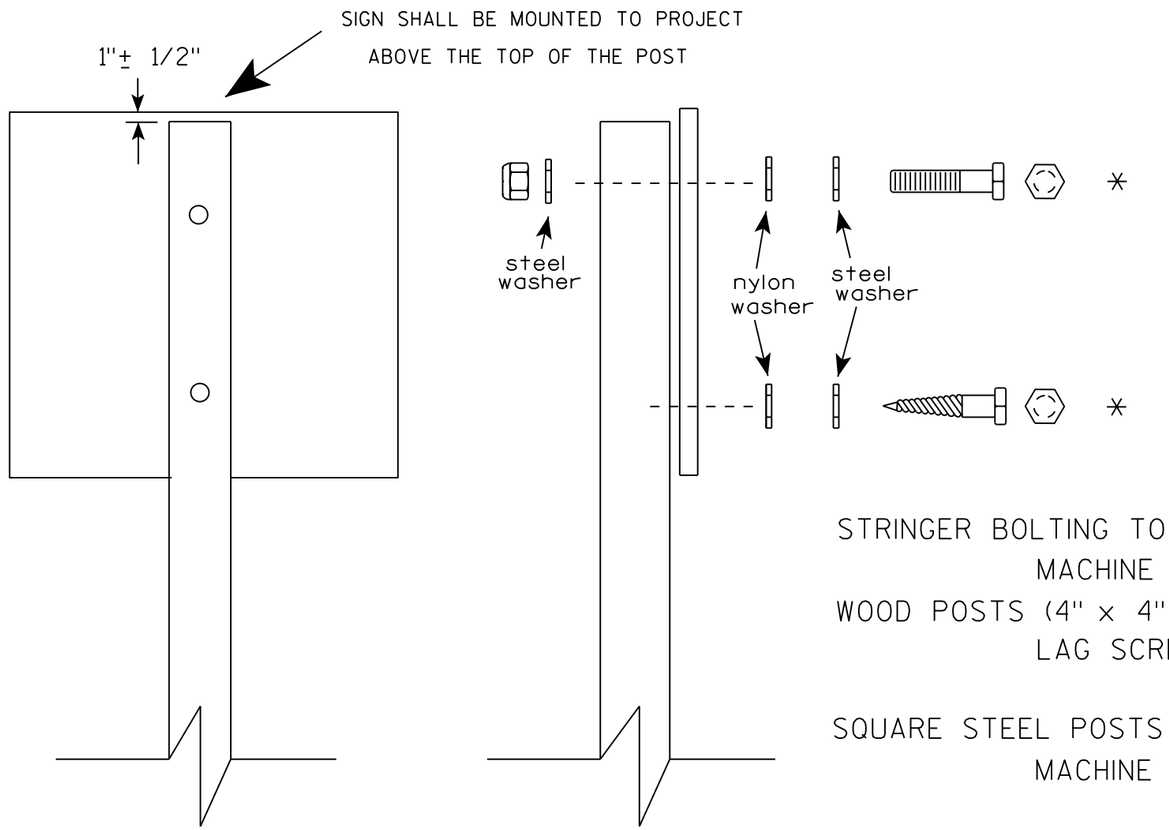
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

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

FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White - Type H Reflective
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 message and adjust spacing as required to achieve proper balance.

I2-2

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2		15	2 1/4		3/4	6	4 1/2	4	5																		Varies
3																											
4		21	3		1	8	6	6	7																		Varies
5		21	3		1	8	6	6	7																		Varies

STANDARD SIGN
I2-2

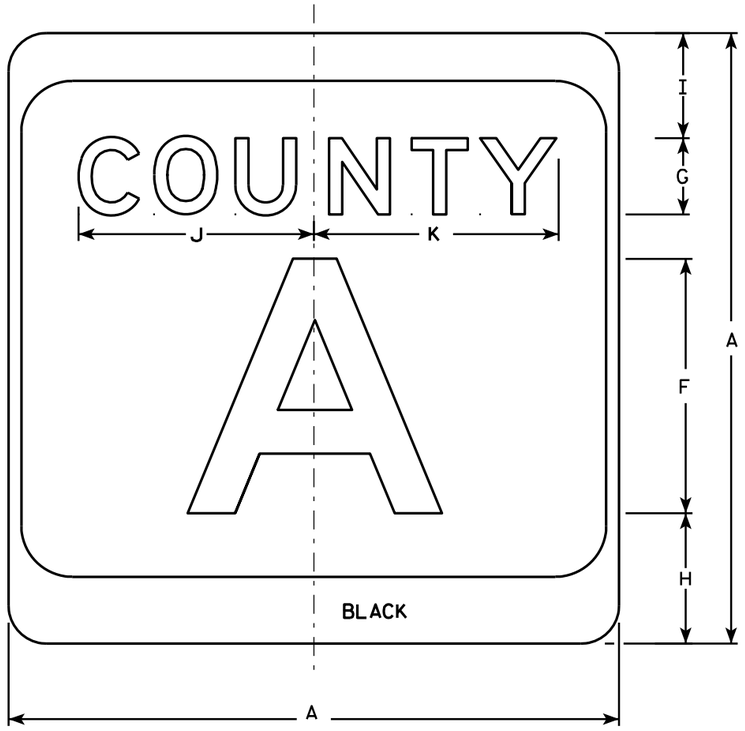
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

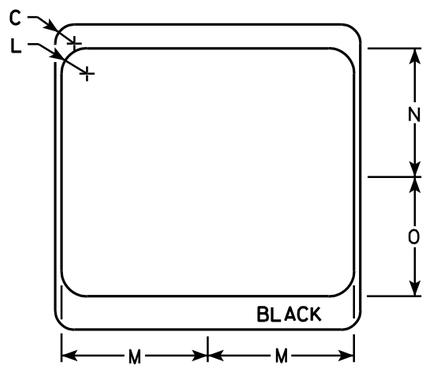
DATE 1/27/14 PLATE I2-2.5

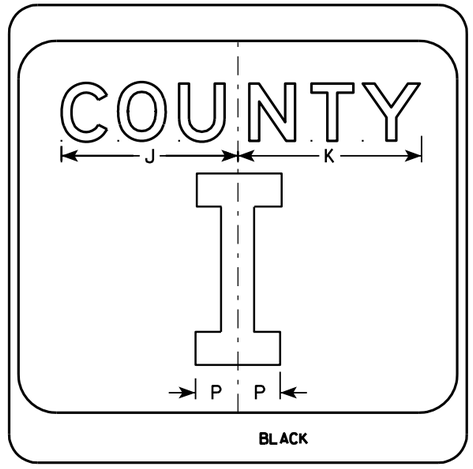
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

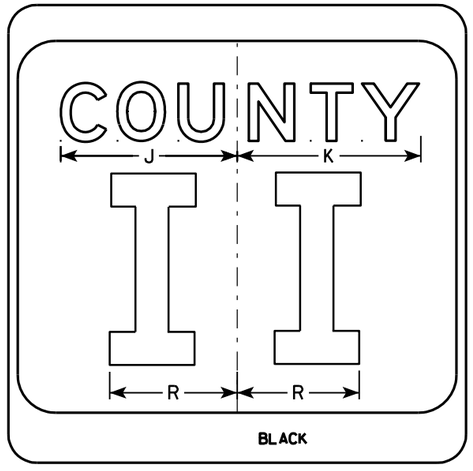
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\I22.DGN PLOT DATE : 27-JAN-2014 15:05 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 9.729210:1.000000
WISDOT/CADDS SHEET 42



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

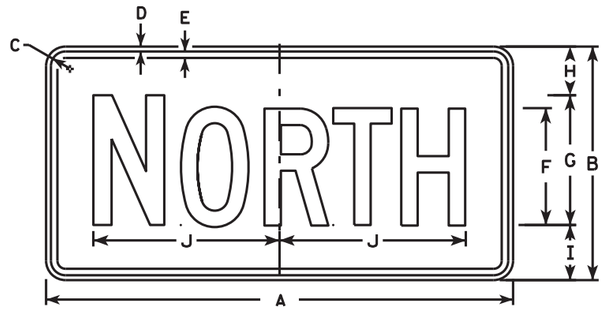
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

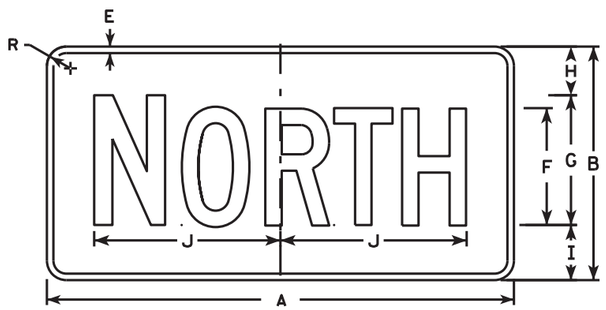
APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 143 | E



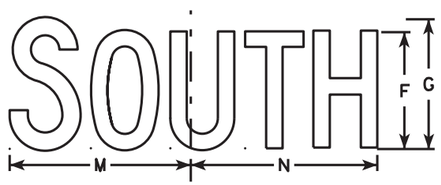
M3-1
MM3-1
MP3-1



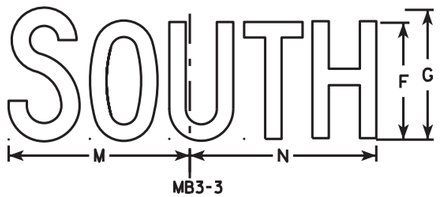
MB3-1
MK3-1
MN3-1

M3-2
MM3-2
MP3-2

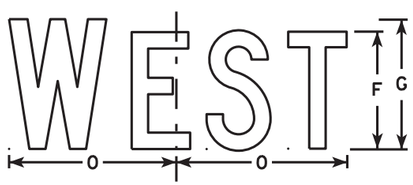
MB3-2
MK3-2
MN3-2



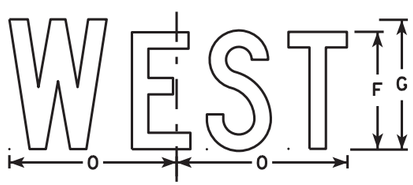
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
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. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

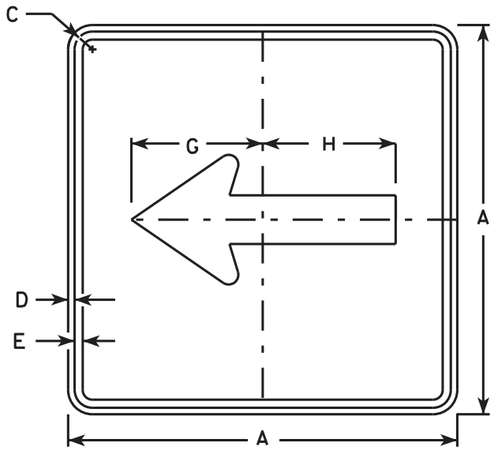
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 10/15/15 PLATE NO. M3-1.14

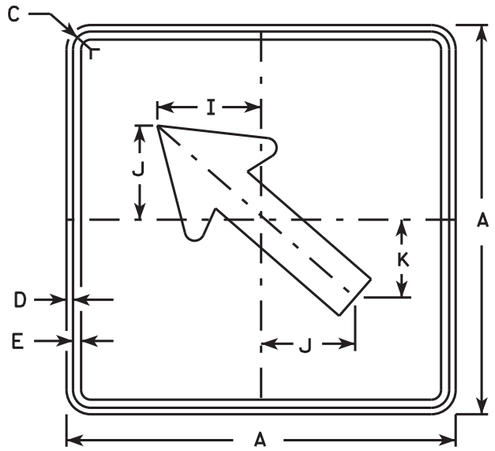
PROJECT NO: | HWY: | COUNTY: | SHEET NO. 144 | E

7

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 15-OCT-2015 12:16 PLOT BY : ss...plotuser...ss PLOT NAME : PLOT SCALE : 18.607113:1.000000
WISDOT/CADDS SHEET 42



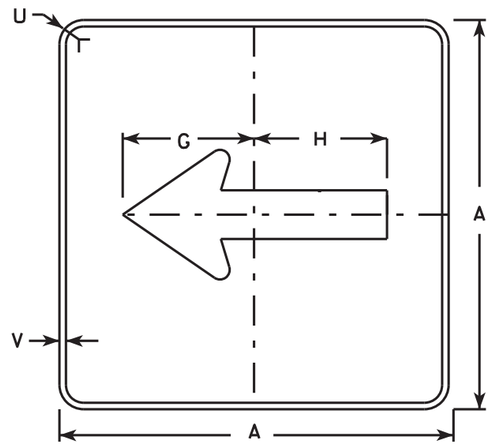
M6-1
MM6-1
MO6-1
MP6-1



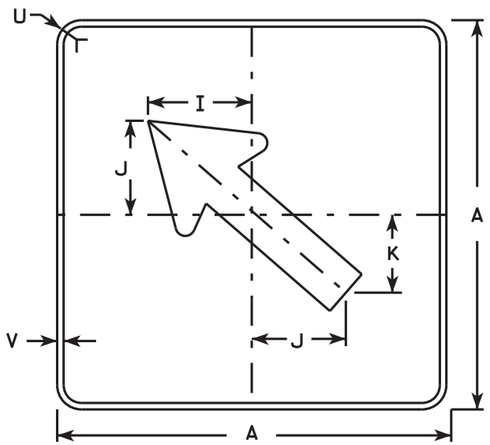
M6-2
MM6-2
MO6-2
MP6-2

NOTES

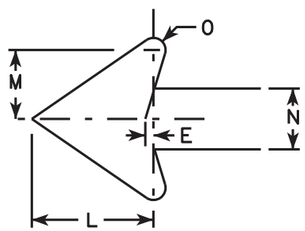
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background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



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



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



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

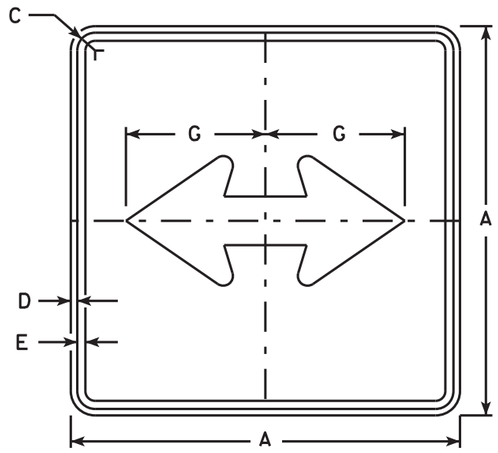
APPROVED Matthew R Rauch
for State Traffic Engineer

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

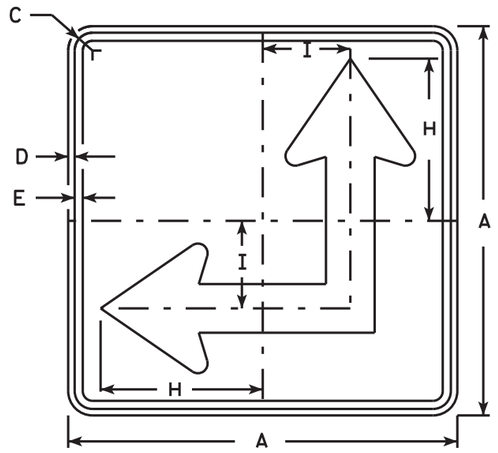
PROJECT NO: | HWY: | COUNTY: | SHEET NO. 145 | E

7

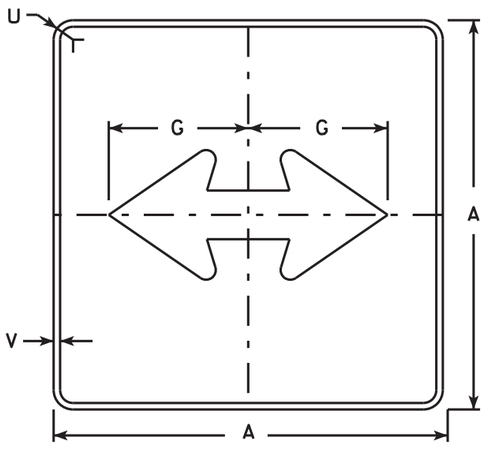
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 15-OCT-2015 13:17 PLOT BY : ss...plotuser...ss PLOT NAME : PLOT SCALE : 18.607113:1.000000
WISDOT/CADDS SHEET 42



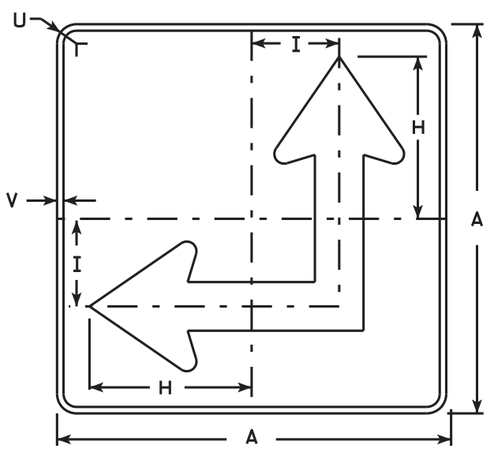
M6-4
MM6-4
MO6-4
MP6-4



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



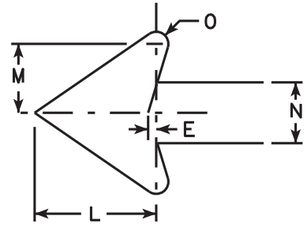
MB6-4
MK6-4
MN6-4
MR6-4



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

NOTES

1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow
5. M6-6R same as M6-6L except arrow points ahead and right.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

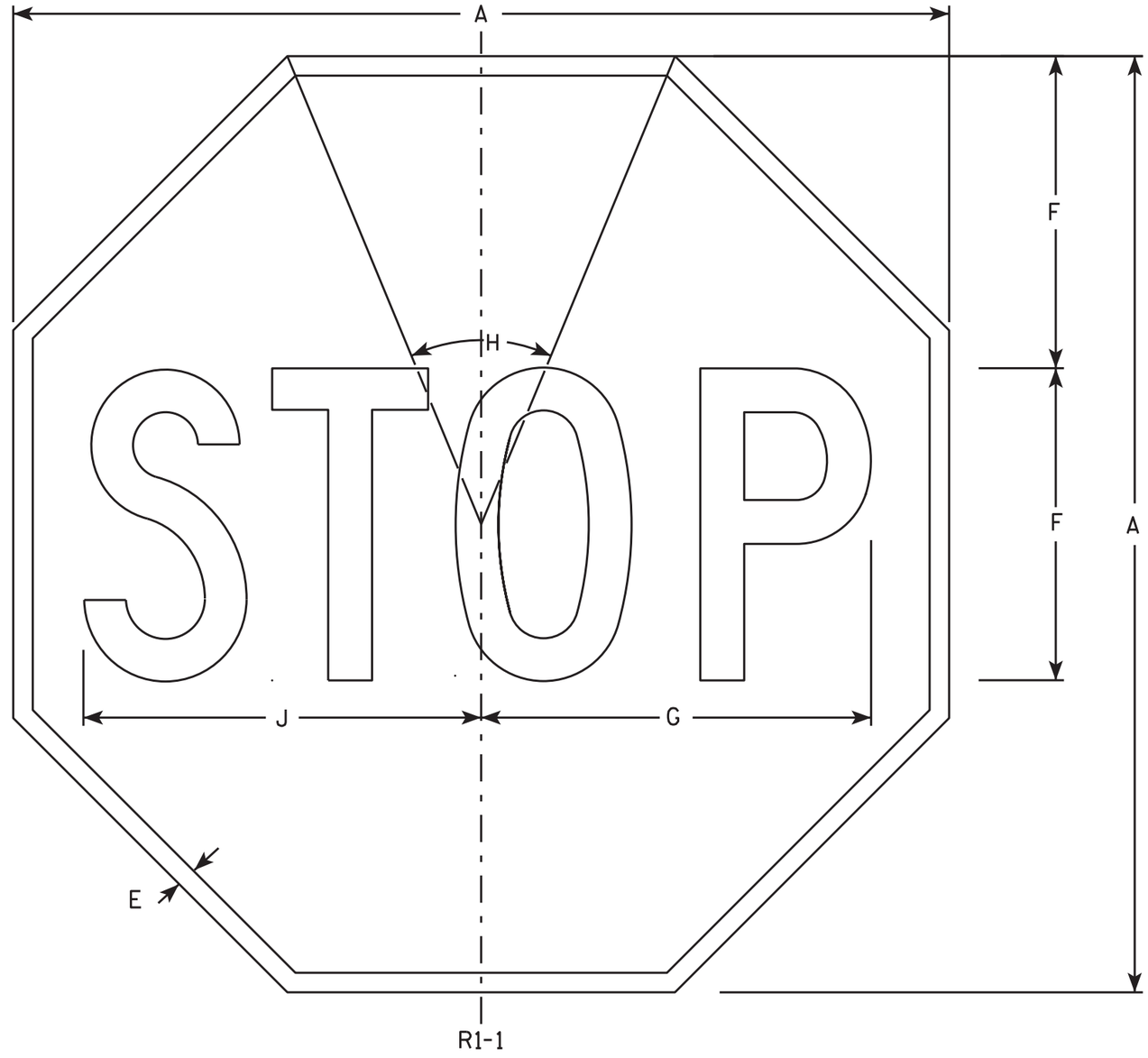
STANDARD SIGN
M6-4 & M6-6
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

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

PROJECT NO: | HWY: | COUNTY: | SHEET NO. 146 | 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

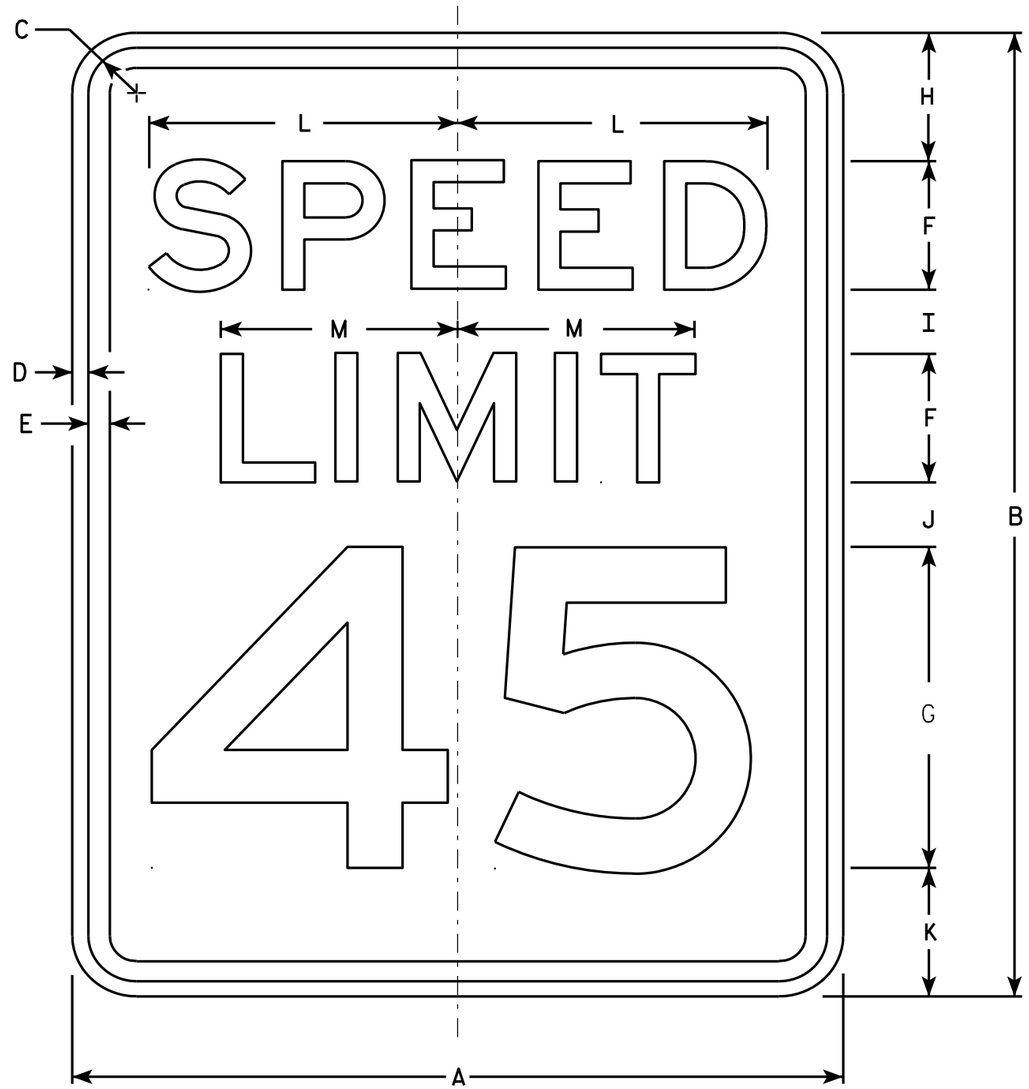
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO. 147	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

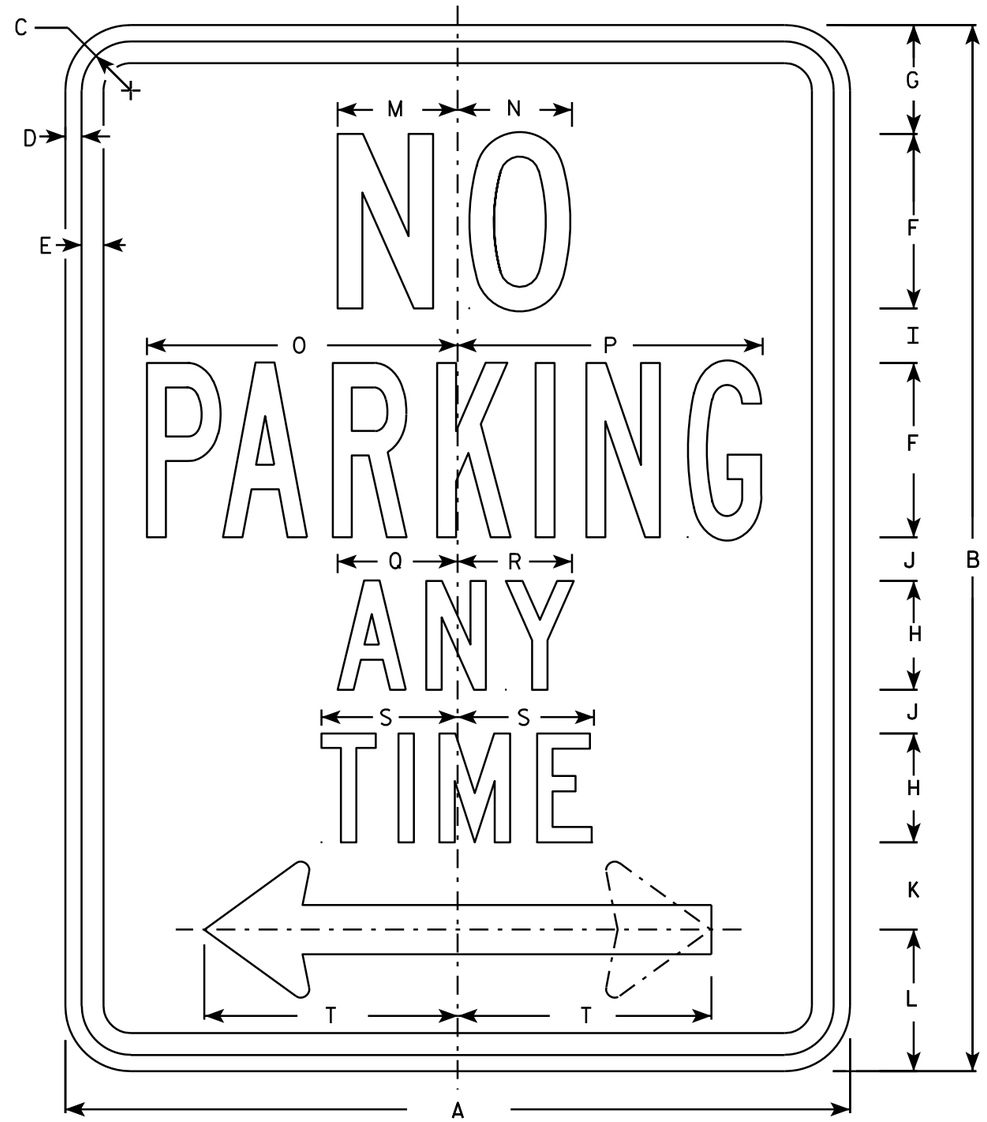
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

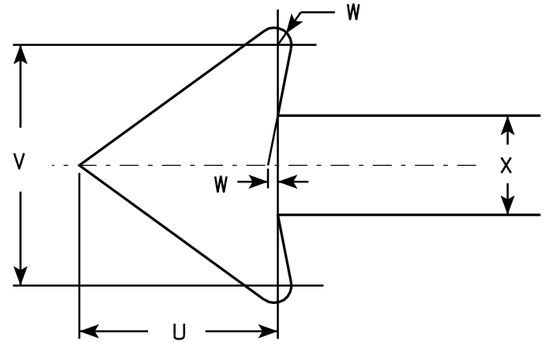
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 148 | E



R7-1

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 - Red
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



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	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

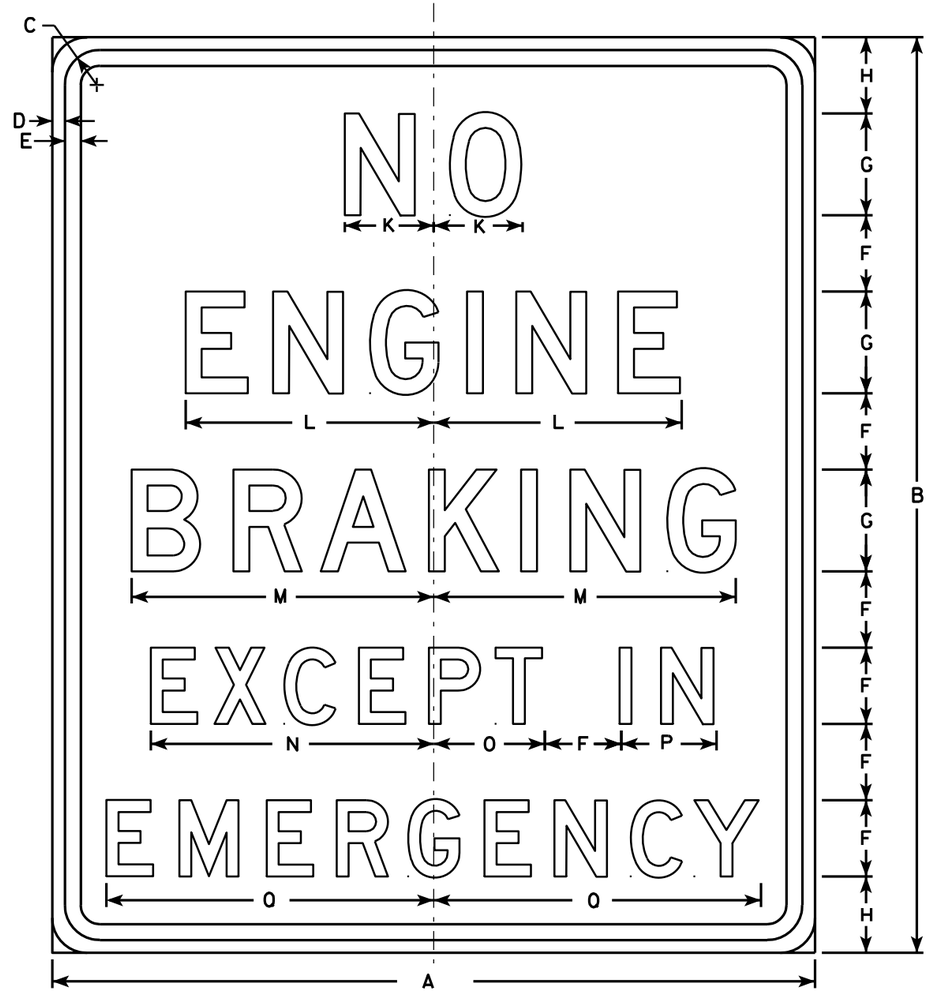
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 149 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R71.DGN PLOT DATE : 31-MAR-2011 09:20 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 3.476110:1.000000

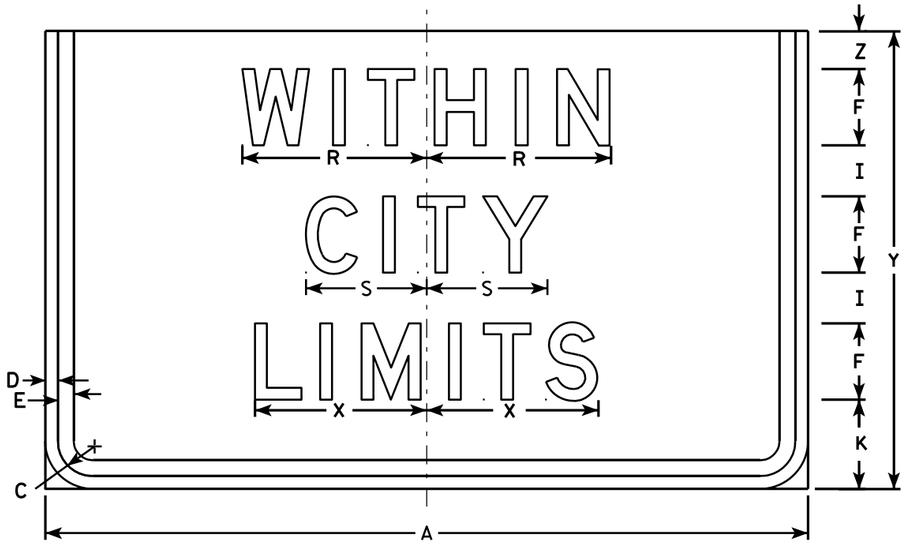
WISDOT/CADDS SHEET 42



R10-64

NOTES

1. Signs are 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 - D See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 2 of R10-64F is Series C for "TOWNSHIP" Only



R10-64F

Area sq. ft.
3.75
7.0

VILLAGE
V
V

TOWNSHIP
U
U

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	36	1 3/8	1/2	5/8	3	4	3	2		3 1/2	9 3/4	11 7/8	11 1/8	4 3/8	3 3/4	12 7/8	7 1/4	4 3/4		8 1/4	8 3/4	5/8	6 3/4	18	1 1/2	7.5
2S	30	36	1 3/8	1/2	5/8	3	4	3	2		3 1/2	9 3/4	11 7/8	11 1/8	4 3/8	3 3/4	12 7/8	7 1/4	4 3/4		8 1/4	8 3/4	5/8	6 3/4	18	1 1/2	7.5
2M	30	36	1 3/8	1/2	5/8	3	4	3	2		3 1/2	9 3/4	11 7/8	11 1/8	4 3/8	3 3/4	12 7/8	7 1/4	4 3/4		8 1/4	8 3/4	5/8	6 3/4	18	1 1/2	7.5
3	42	48	1 3/8	1/2	5/8	4	5	4 1/2	3		4	12 1/4	14 7/8	14 1/8	5 1/4	4 3/4	16 1/4	9	6		11	11 1/4	1 1/2	8 1/2	24	2	14.0
4																											
5																											

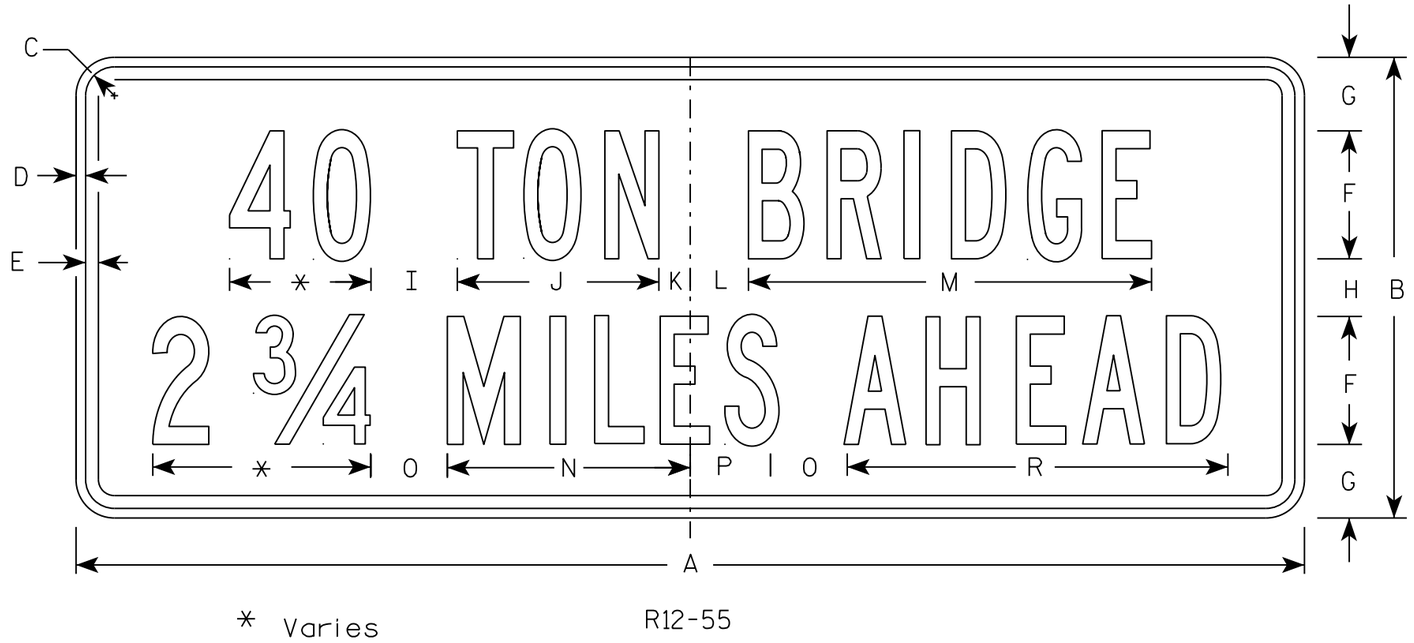
STANDARD SIGN
R10-64 & R10-64F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/4/11 PLATE NO. R10-64.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 150	E



* Varies

R12-55

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - B for Size 2, Series D for Sizes 3 & 4
4. Corners and border shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile 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																											
2S	48	18	1 1/8	3/8	1/2	5	2 7/8	2 1/4	3 3/8	7 7/8	1 1/4	2 1/4	15 3/4	9 1/2	3	3 1/8		14 7/8									6.0
2M	48	18	1 1/8	3/8	1/2	5	2 7/8	2 1/4	3 3/8	7 7/8	1 1/4	2 1/4	15 3/4	9 1/2	3	3 1/8		14 7/8									6.0
3	90	24	2 1/4	3/4	1	6	4	4	6	15 1/4	2 1/2	3 1/2	30 5/8	18 3/8	6	6 1/4		28 3/8									15.0
4	120	30	2 1/4	3/4	1	8	5 1/4	3 5/8	8	19 5/8	4	3	39 1/2	24 1/2	7	6 3/4		36 3/8									20.0
5	120	30	2 1/4	3/4	1	8	5 1/4	3 5/8	8	19 5/8	4	3	39 1/2	24 1/2	7	6 3/4		36 3/8									20.0

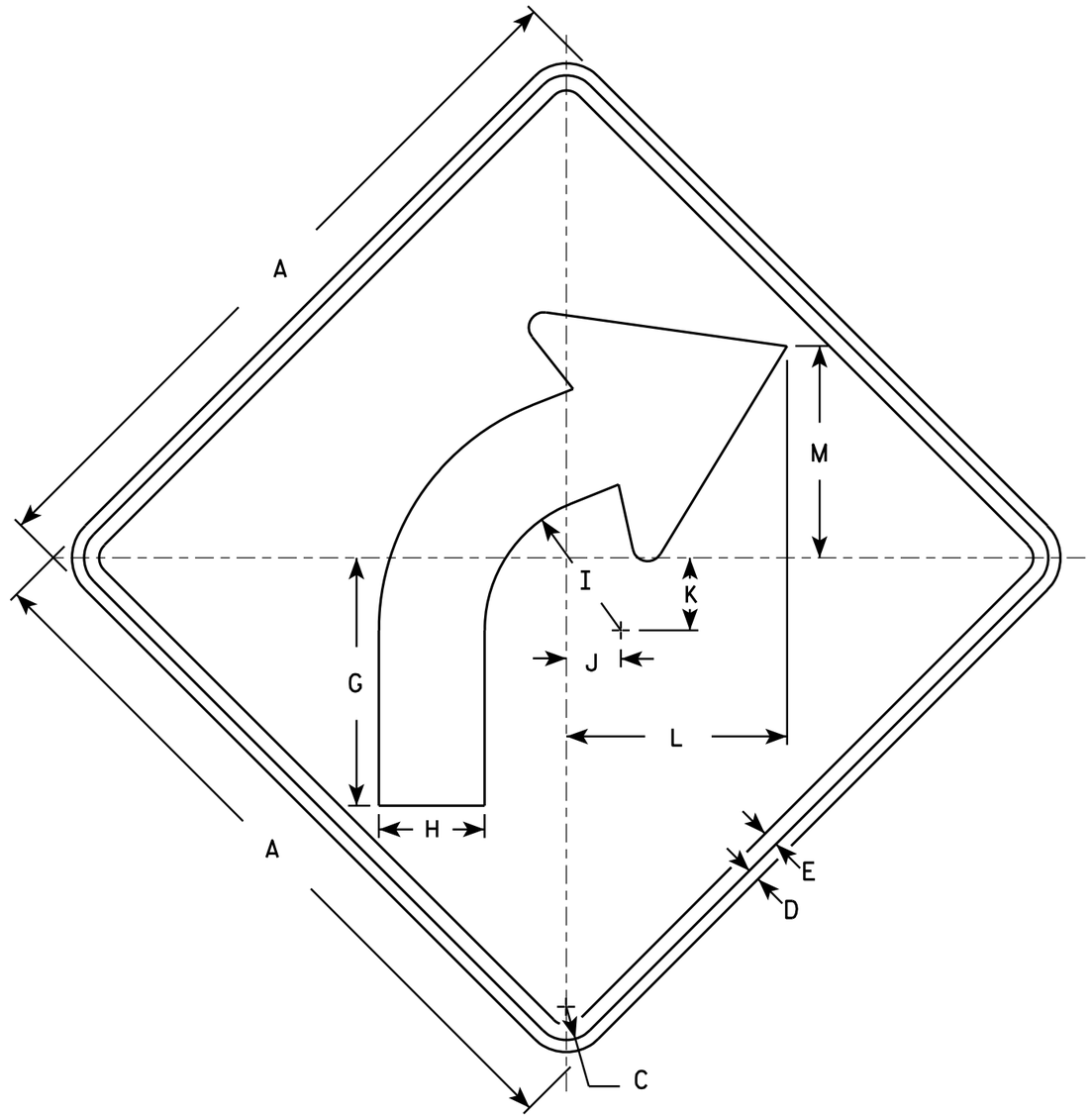
STANDARD SIGN
R12-55

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. R12-55.6

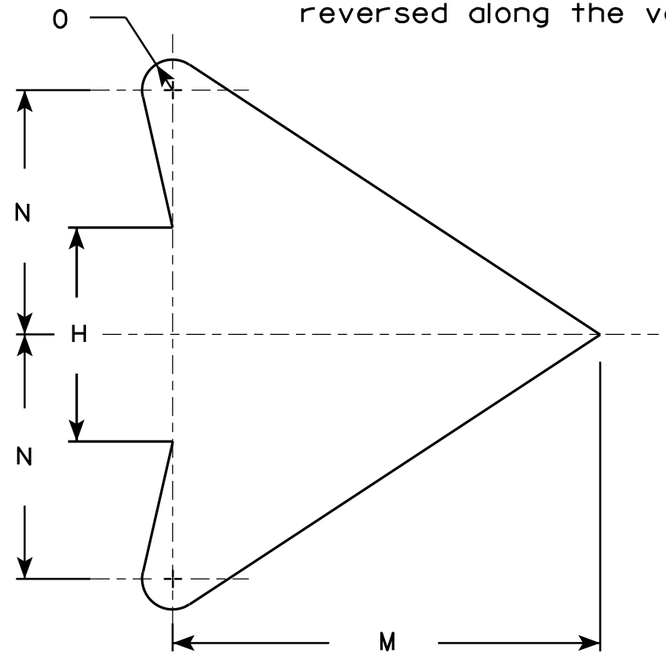
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 151 | E



W1-2R

NOTES

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



ARROW DETAIL

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

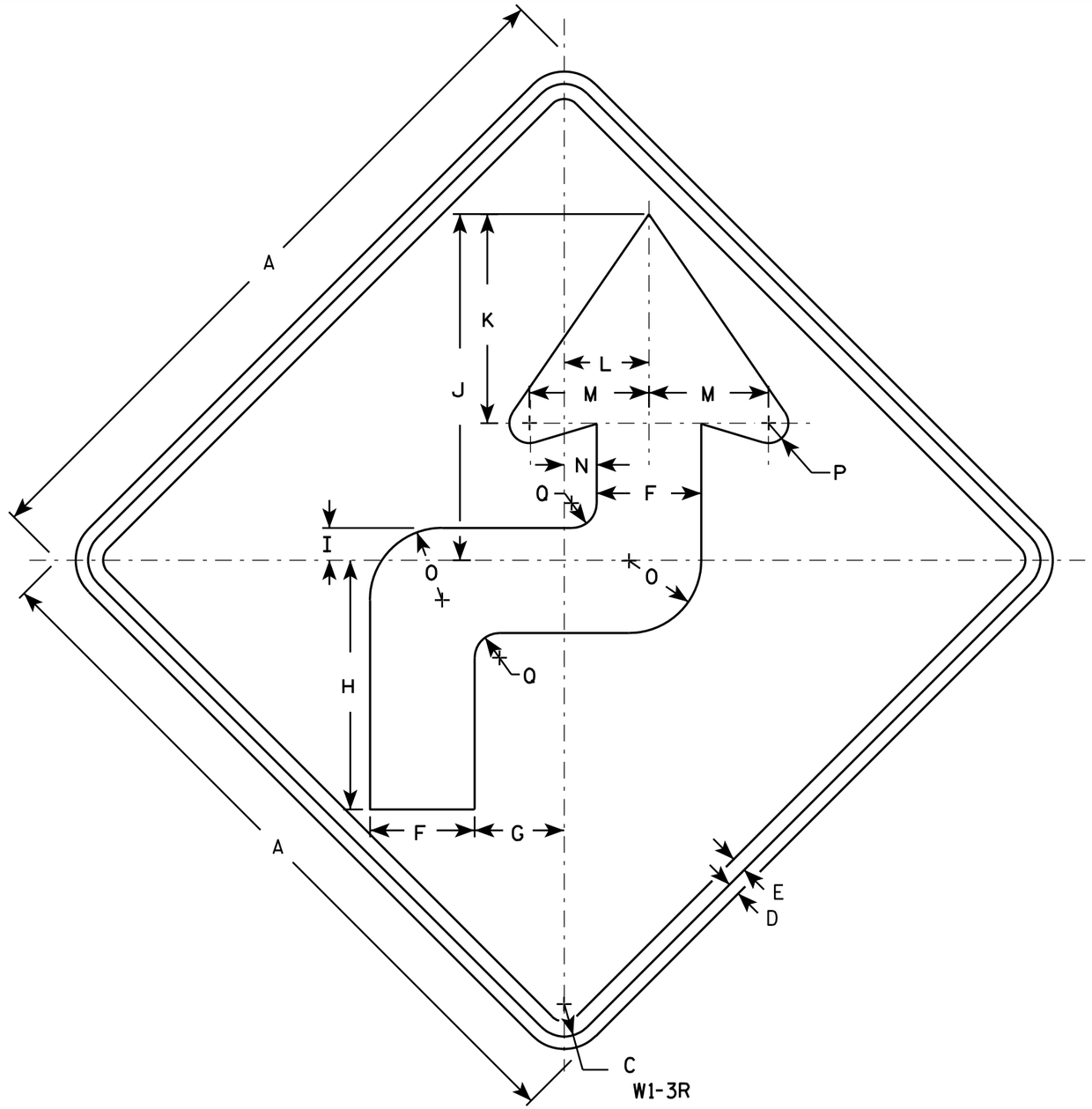
STANDARD SIGN
W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 152	E



NOTES

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

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

STANDARD SIGN
W1-3

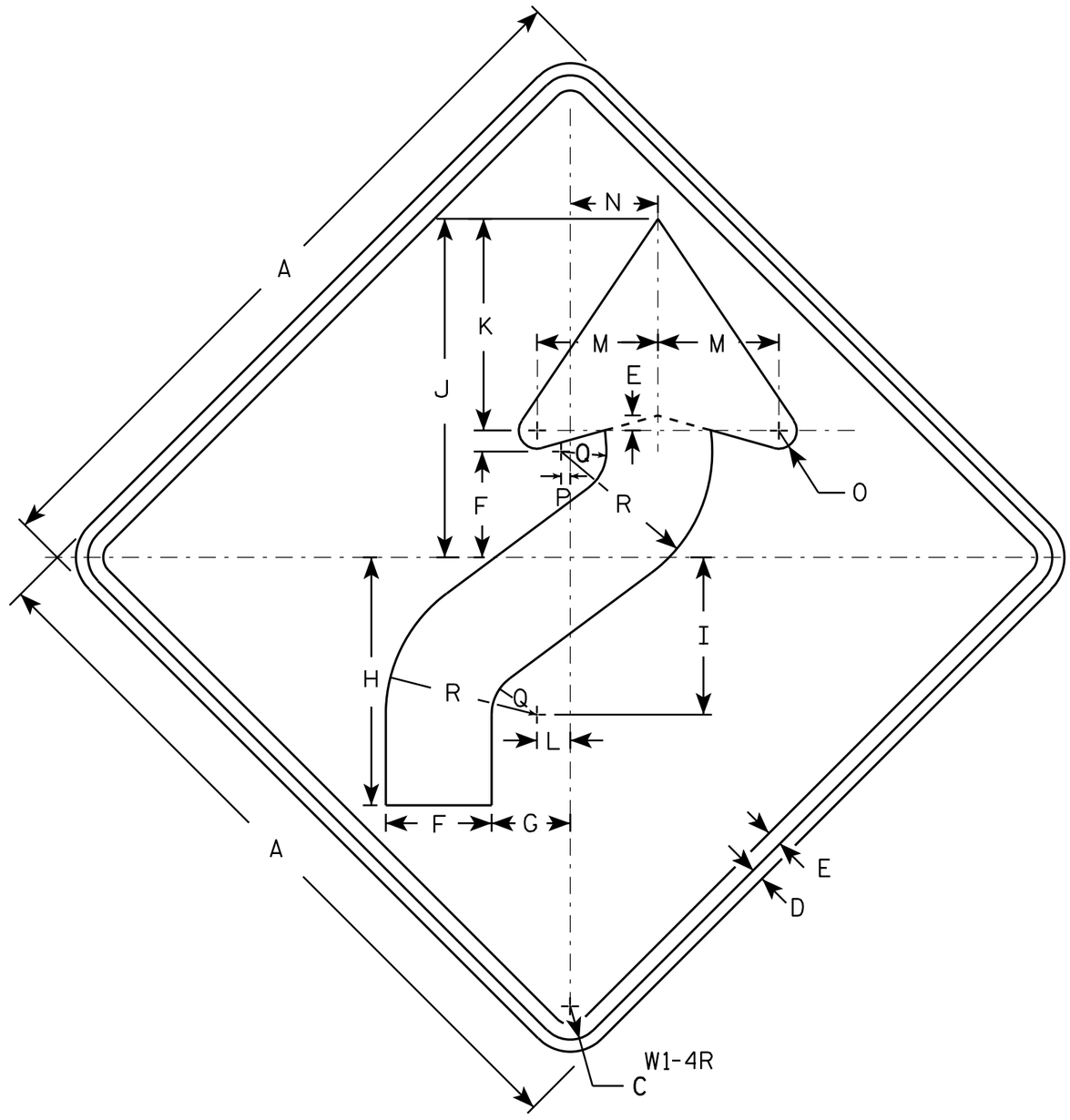
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/17/12 PLATE NO. W1-3.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 153 | E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W13.DGN PLOT DATE : 17-MAY-2012 13:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.698561:1.000000 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. W1-4L 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

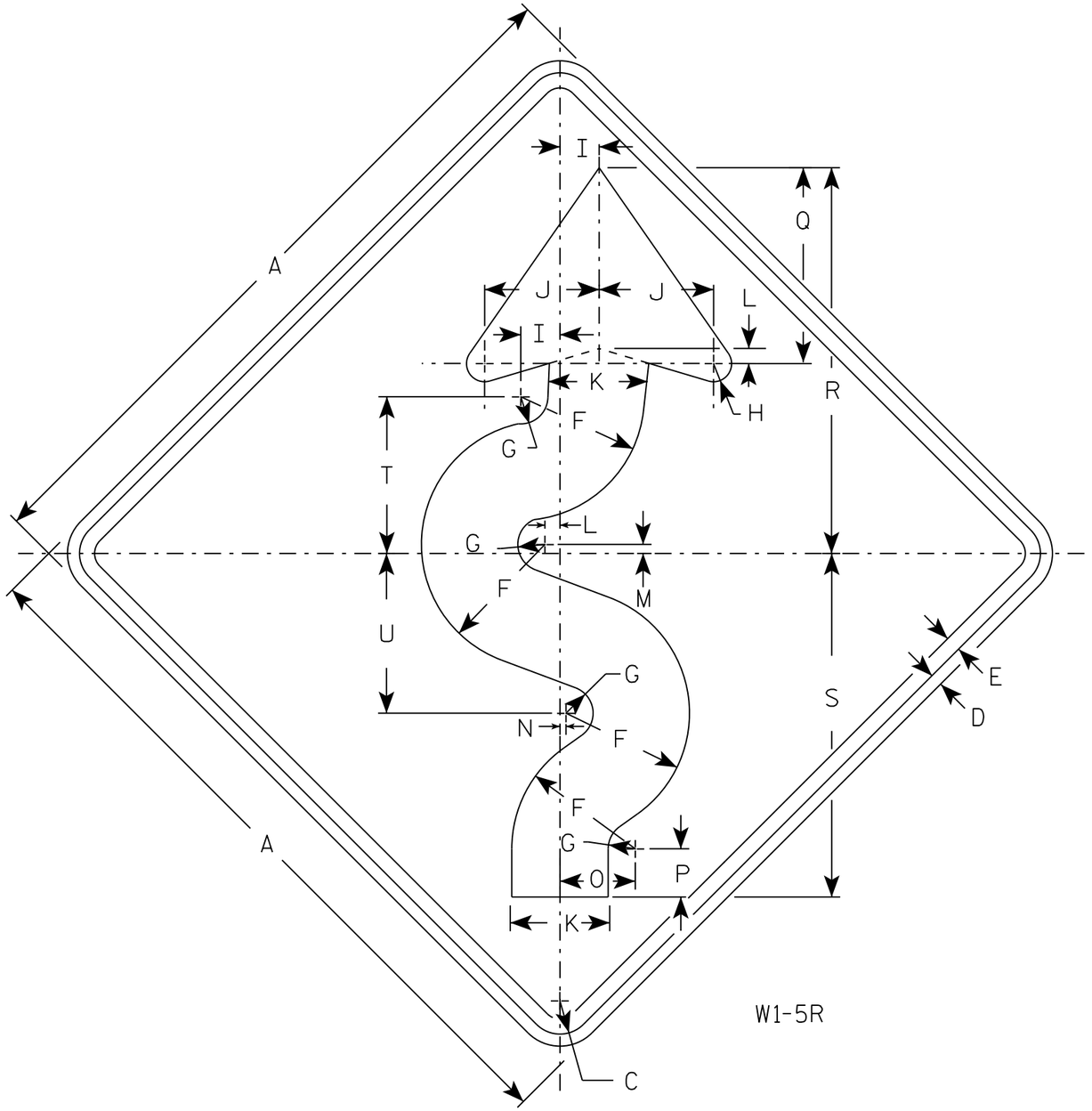
STANDARD SIGN
W1-4

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: 154 | 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

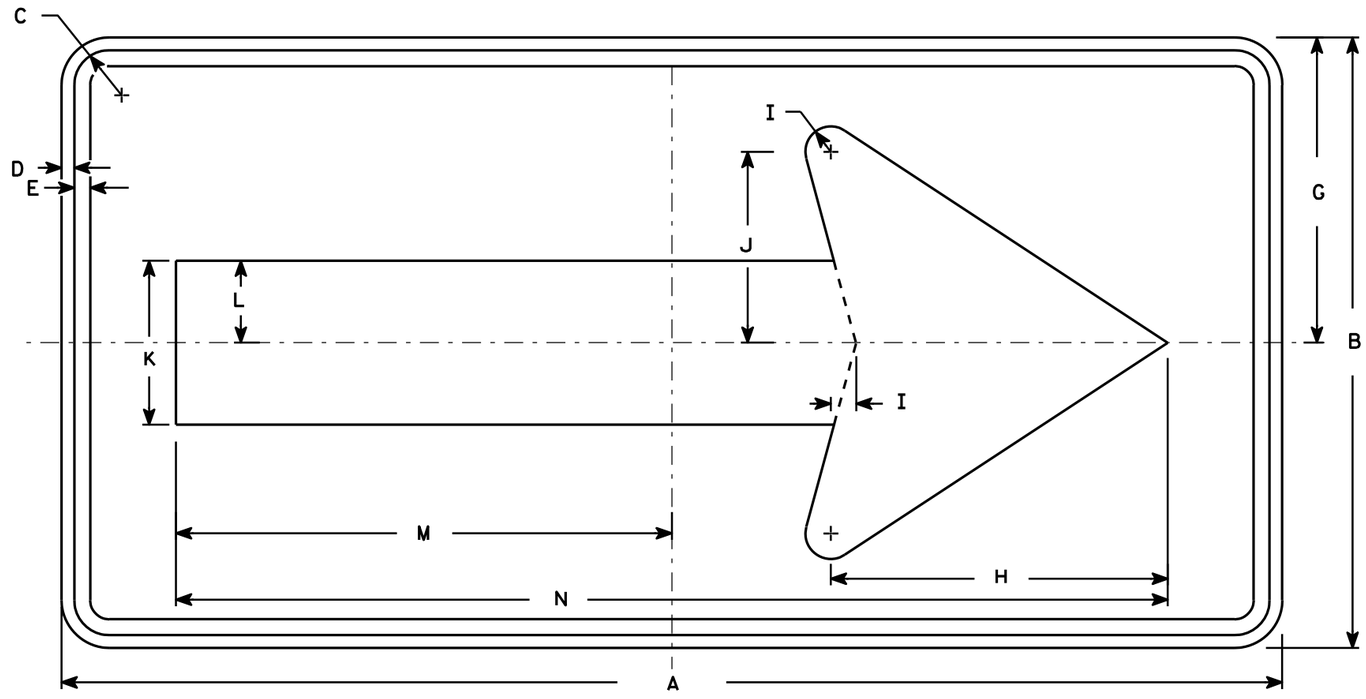
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W15.DGN PLOT DATE : 01-AUG-2016 09:34 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.594294:1.000000



W1-6

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	3/8		9	10	3/4	5 5/8	4 3/4	2 3/8	14 5/8	29 1/4													4.5
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

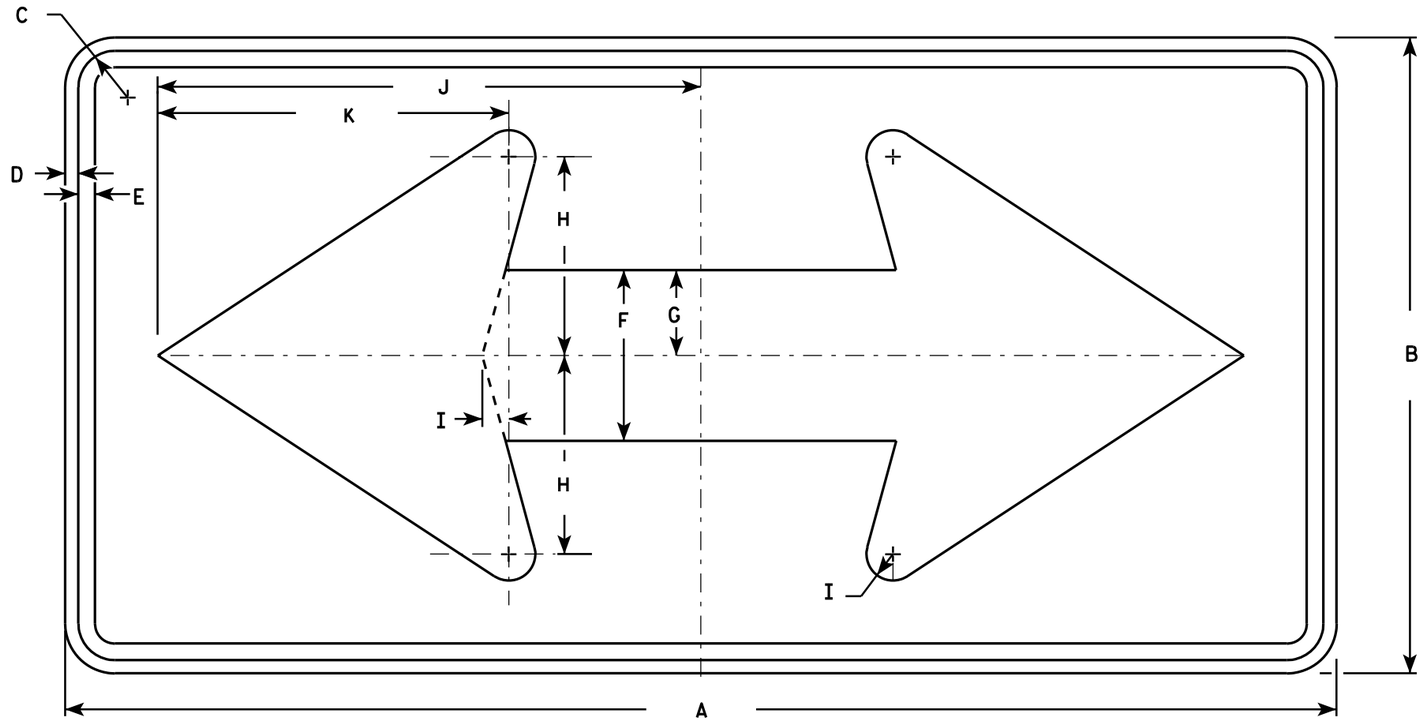
STANDARD SIGN
W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 156



W1-7

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

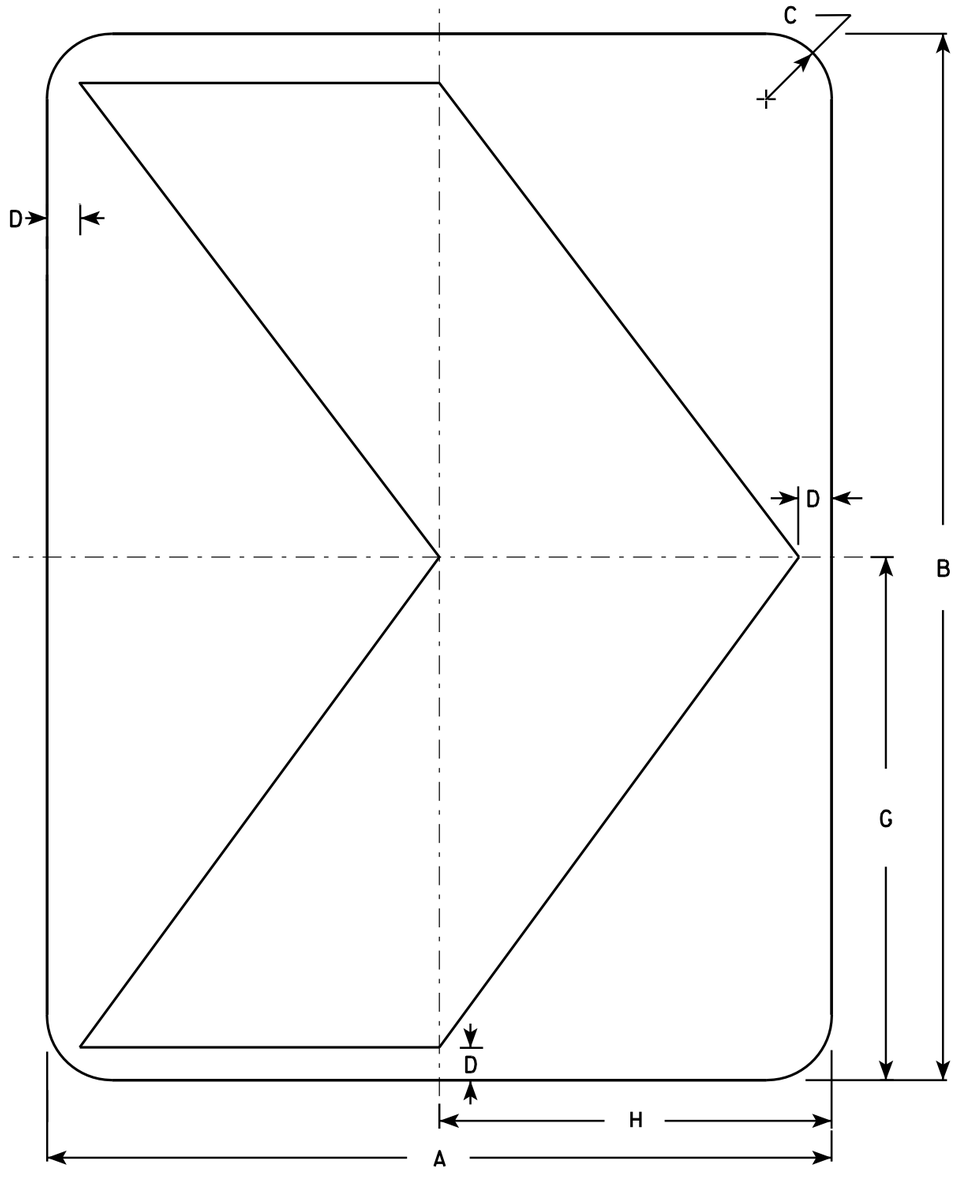
STANDARD SIGN
W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 157 | 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.

W1-8

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	12	18	1 ½	½			9	6																			1.5
2S	18	24	1 ½	¾			12	9																			3.0
2M	18	24	1 ½	¾			12	9																			3.0
3	24	30	1 ½	1			15	12																			5.0
4	30	36	1 ⅞	1 ¼			18	15																			7.5
5	36	48	2 ¼	1 ½			24	18																			12.0

STANDARD SIGN
W1-8

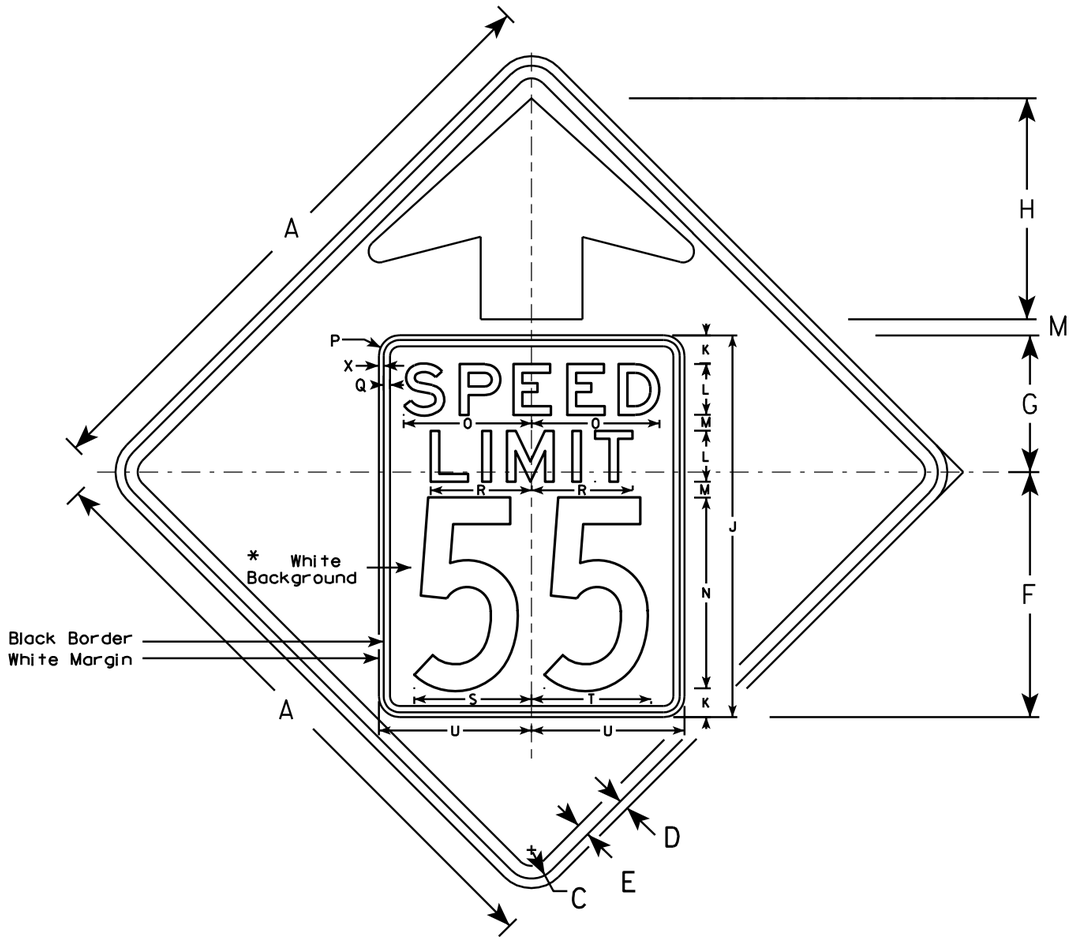
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-8.6

PROJECT NO:

SHEET NO: 158 E

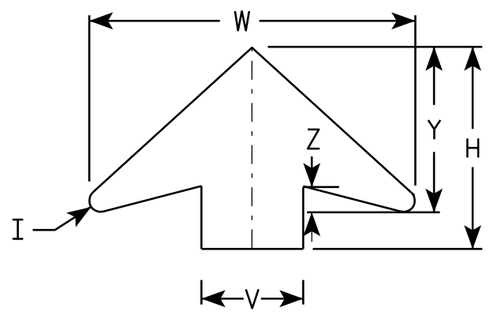


W3-5

NOTES

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

*Speed Limit Sign shall have a White Background



ARROW DETAIL

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

STANDARD SIGN
W3-5

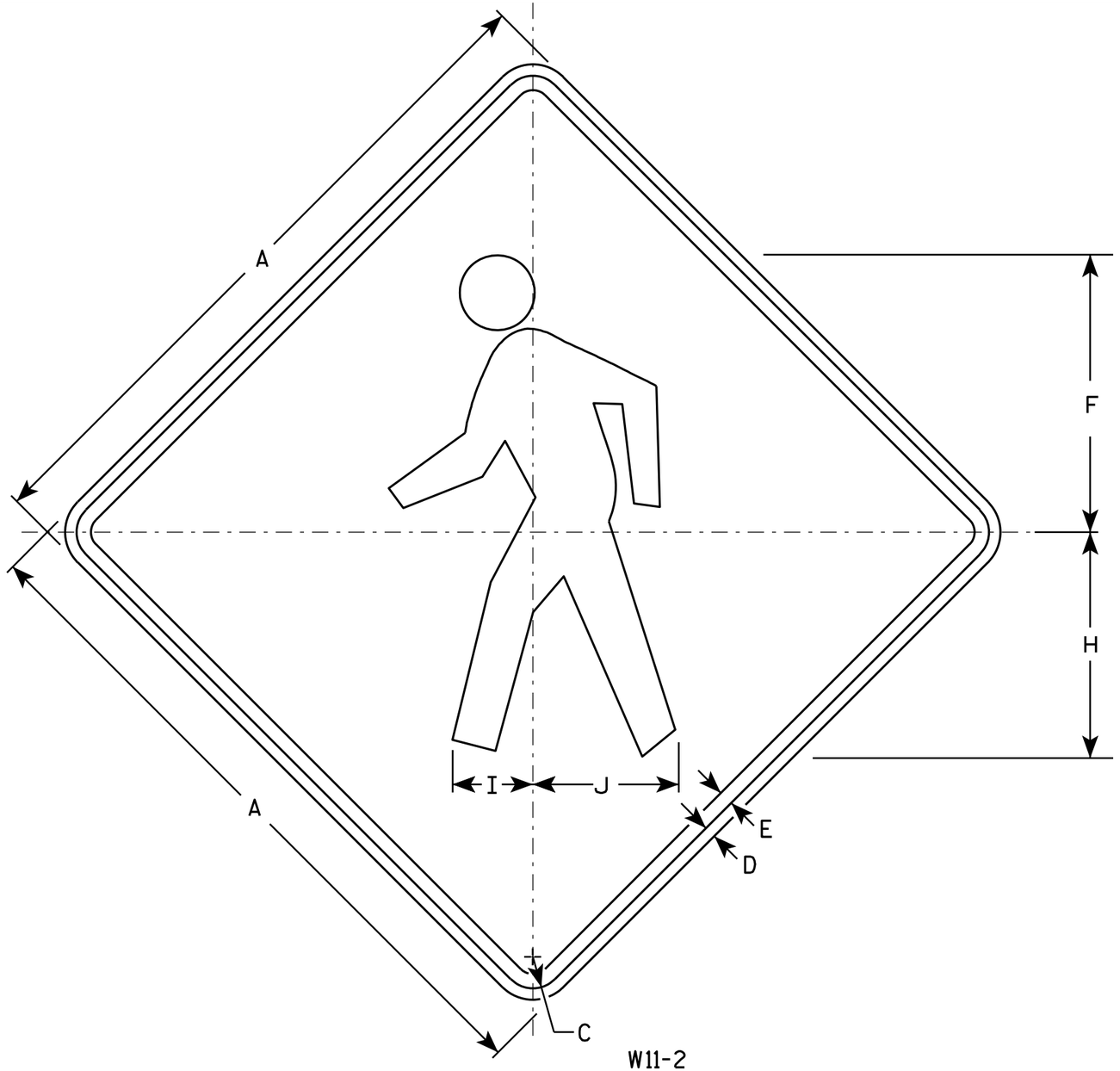
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:

SHEET NO: 159 E



W11-2

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	9 3/4		7 7/8	2 7/8	5 1/8																	4.0
2S	30		1 3/8	1/2	5/8	12 1/8		9 7/8	3 1/2	6 3/8																	6.25
2M	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
3	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
4	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
5																											

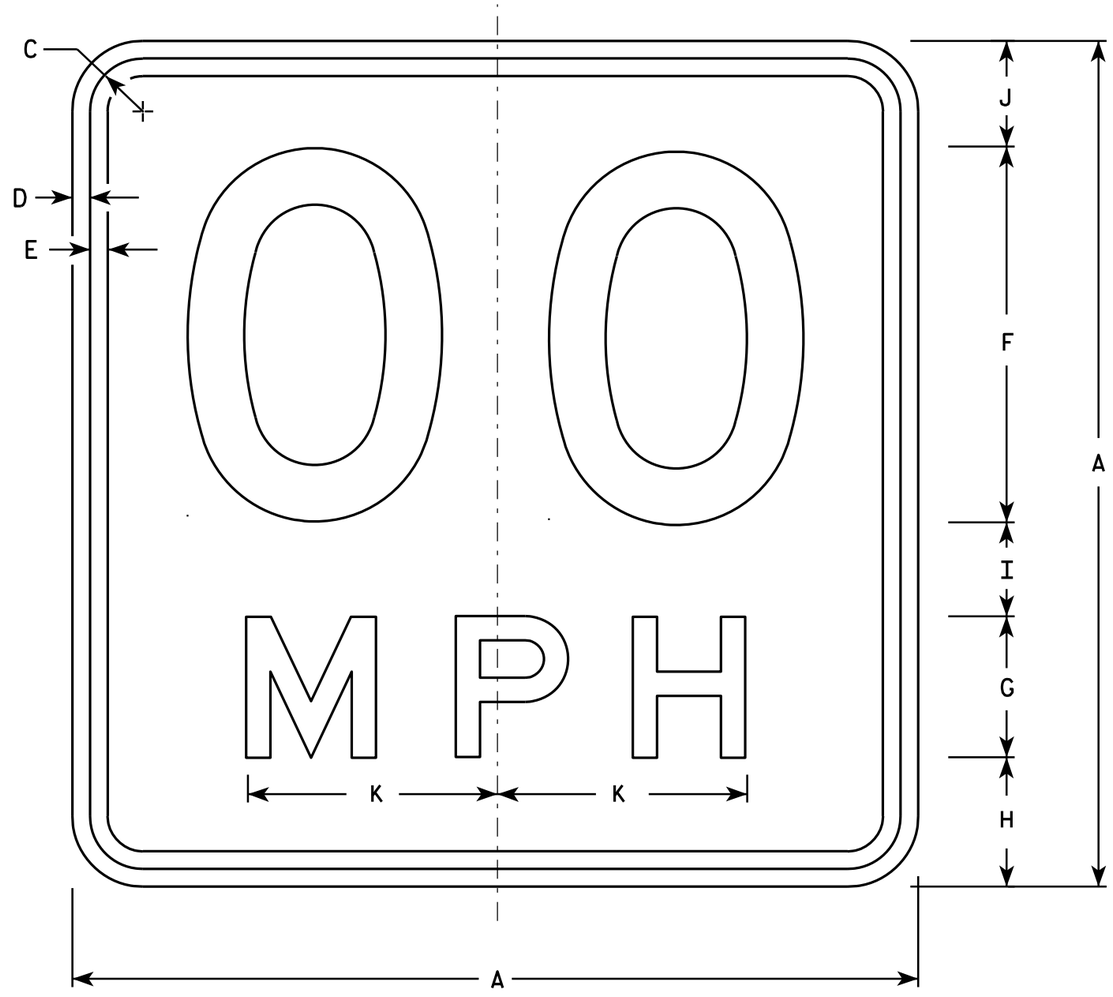
STANDARD SIGN
W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 160	E



W13-1

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

NOTES

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

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

STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

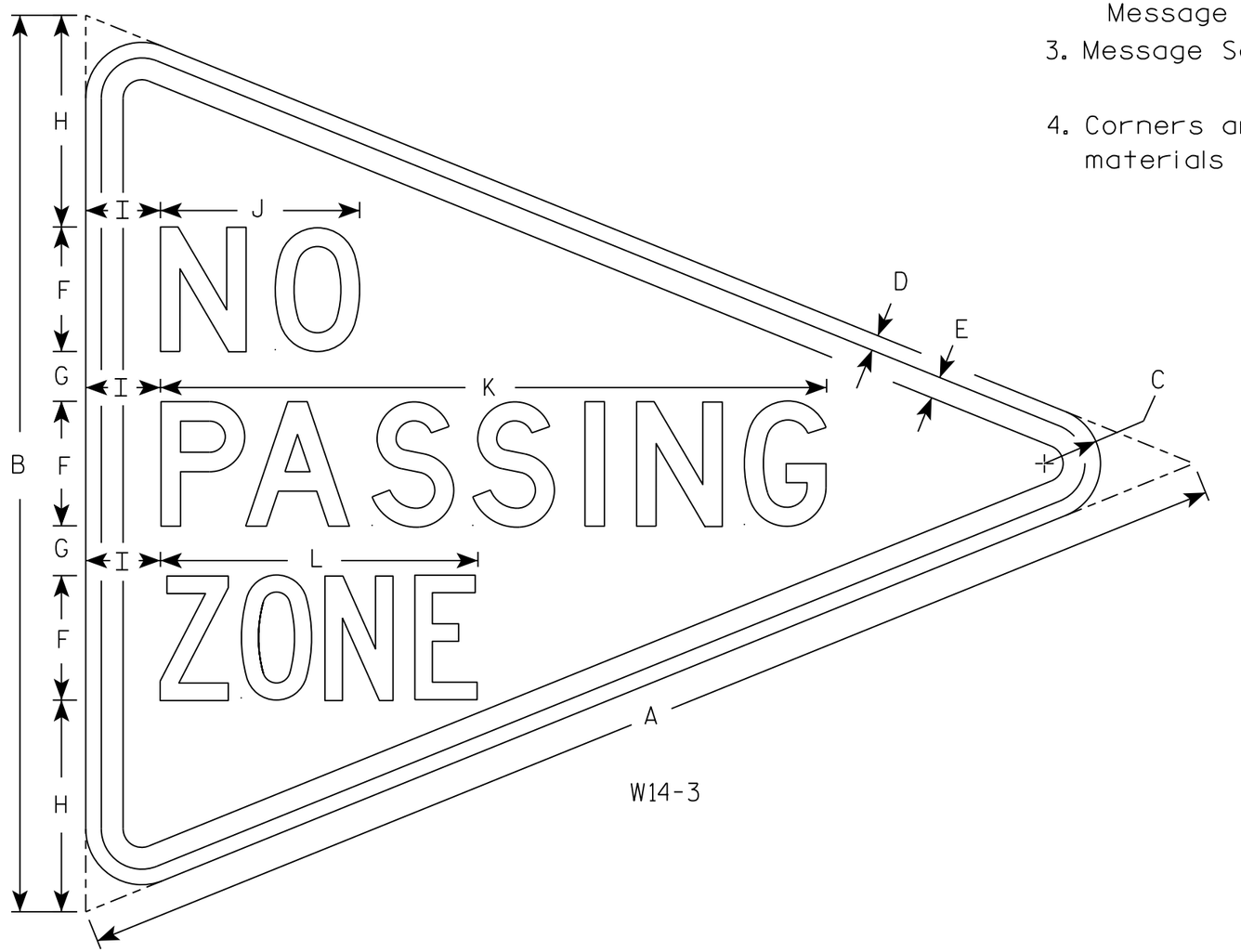
APPROVED Matthew R Rauch
For State Traffic Engineer

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

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 161 | E

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - Lines 1 and 2 are Series D.
   Line 3 is series C.
4. Corners and borders shall be rounded on all base materials for this sign.



W14-3

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	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

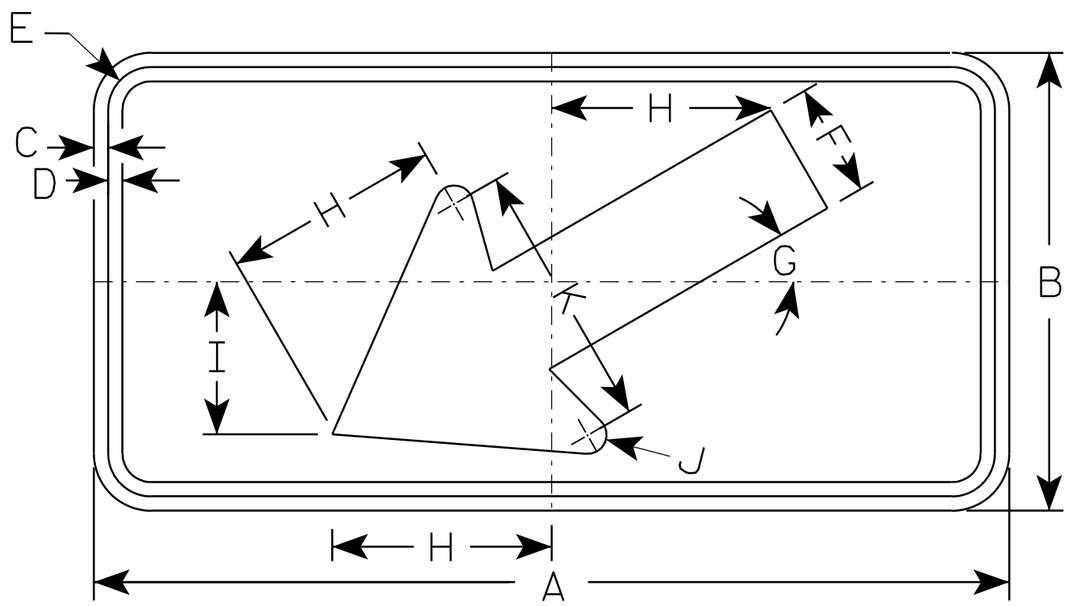
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W14-3.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 162 | E



W16-7L

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. W16-7R is the same as W16-L 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																											
2S	24	12	3/8	3/8	1 1/8	3	30°	5 3/4	4	1/2	7																2.0
2M	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
3	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
4																											8
5																											8

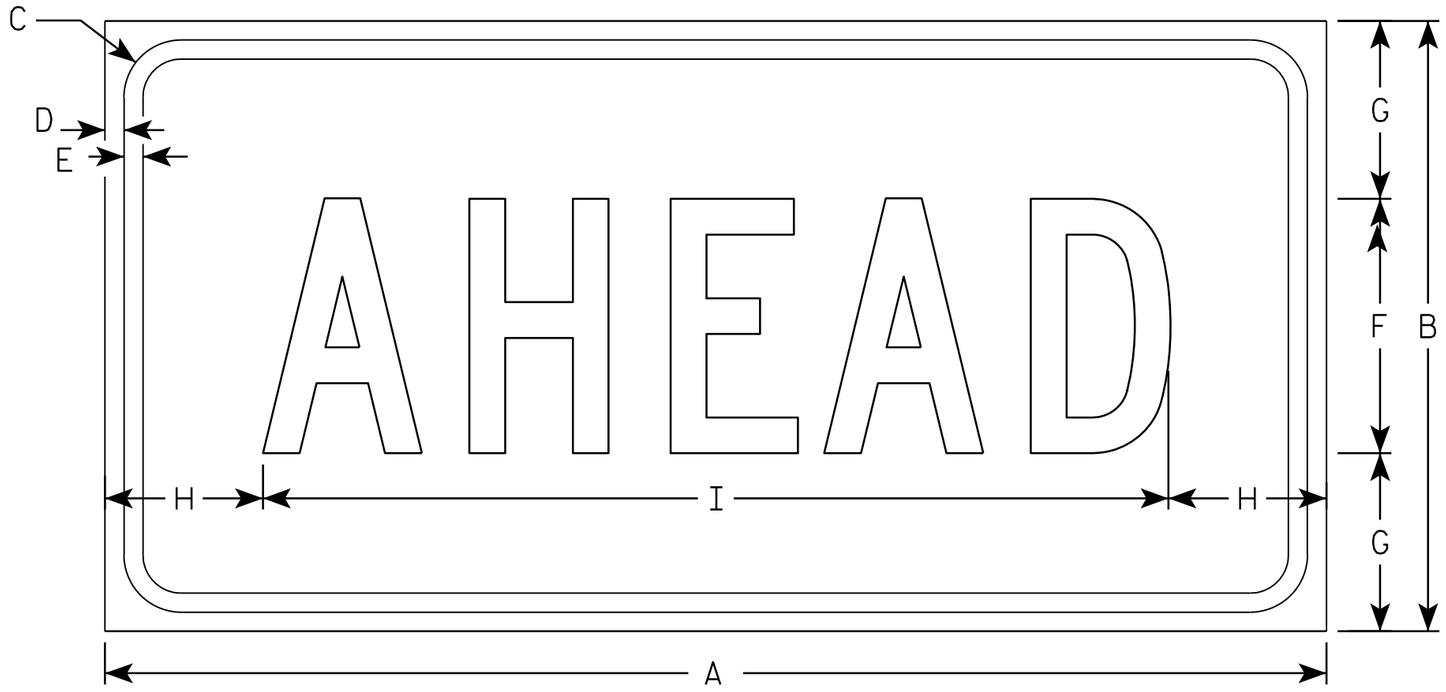
STANDARD SIGN
W16-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/02/10 PLATE NO. W16-7.5

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 163	E



W16-9P

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - C
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	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

STANDARD SIGN
W16-9P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/28/10 PLATE NO. W16-9P.6

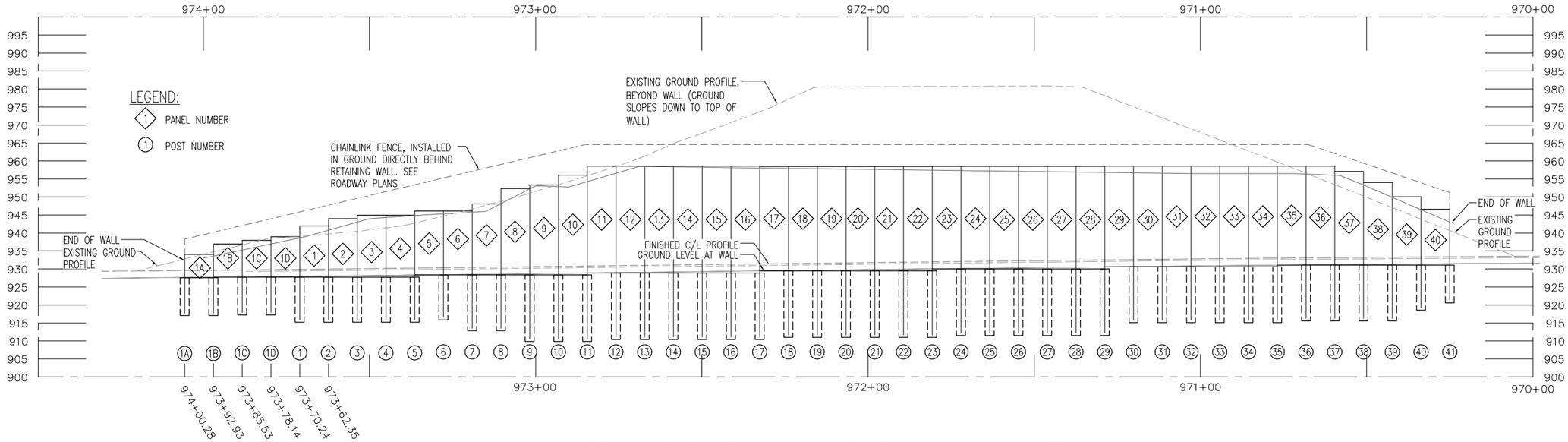
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 164 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W169P.DGN PLOT DATE : 28-DEC-2010 13:39 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 2.979524:1.000000
WISDOT/CADDS SHEET 42

PLAN NOTES

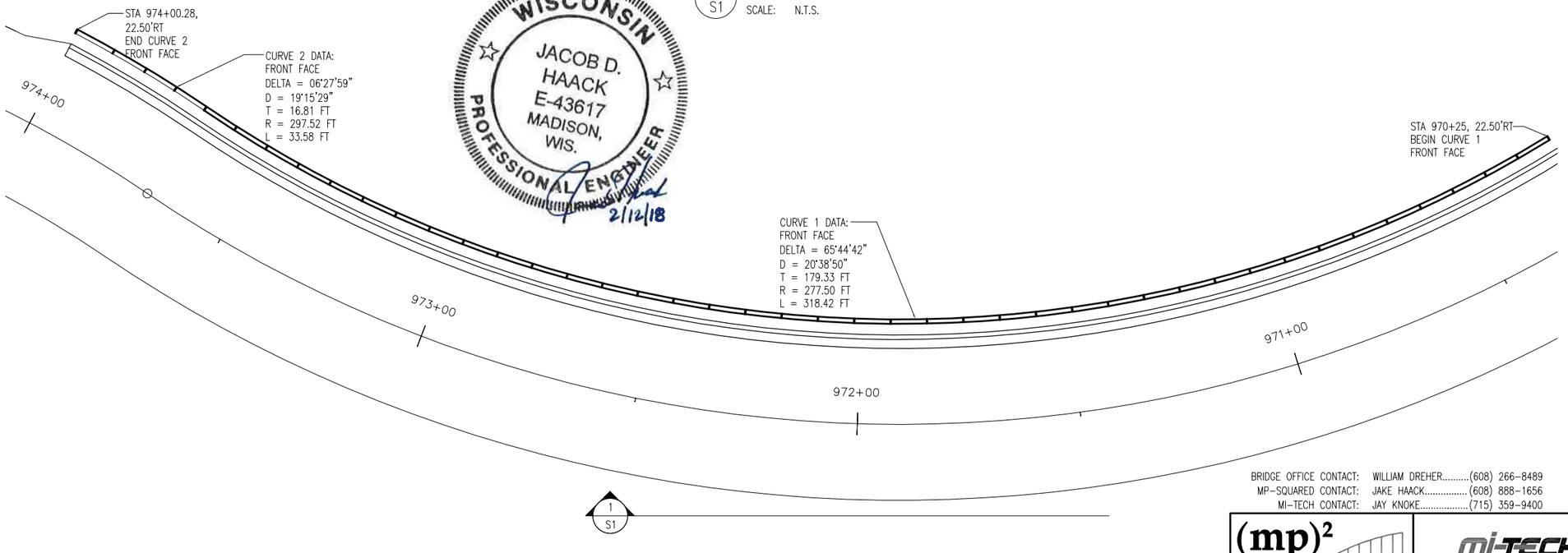
1. SEE SHEET S2 FOR ADDITIONAL NOTES.

STATE PROJECT NUMBER
6355-00-75



1 S1 OVERALL ELEVATION @ CURVE LOOKING SOUTH

SCALE: N.T.S.



2 S1 RETAINING WALL PLAN

SCALE: N.T.S.

WISCONSIN
JACOB D. HAACK
E-43617
MADISON, WIS.
PROFESSIONAL ENGINEER
2/12/18

LIST OF DRAWINGS

SHEET NUMBER	SHEET NAME
S1	GENERAL PLAN
S2	NOTES AND QUANTITIES
S3	SUBSURFACE EXPLORATION
S4	PARTIAL ELEVATION
S5	PARTIAL ELEVATION
S6	PARTIAL ELEVATION
S7	PARTIAL ELEVATION
S8	DETAILS

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MP-SQUARED CONTACT: JAKE HAACK.....(608) 888-1656
MI-TECH CONTACT: JAY KNOKE.....(715) 359-9400

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583 D'onofrio Drive, Suite 201 Madison, WI 53719
Office: 608-821-4770 Fax: 608-821-4780

mi-TECH
5707 SCHOFIELD AVENUE WESTON, WI 54476
PHONE: (715) 359-9400 – FAX: (715) 355-4199 www.mi-tech.us

NO.	DATE	REVISION	BY

WISDOT
BUREAU OF STRUCTURES

APPROVED William C. Dreher SDR 02/13/18
CHIEF STRUCTURAL DESIGN ENGINEER DATE

STRUCTURE R-01-002

RETAINING WALL ALONG CTH Z

COUNTY	TOWN	
ADAMS	ROME	
DESIGN SPEC. AASHTO LRFD Spec. 2012	LOAD H10	CONST. SPEC. 2018
DESIGNED BY JDH / DESIGN CK'D. MLP	DRAWN BY JDH	PLANS CK'D. MLP

GENERAL PLAN

SHEET 1 OF 8

165

8

8

STATE PROJECT NUMBER

6355-00-75

GENERAL NOTES

1. THE NEW POST AND PANEL WALL HAS BEEN DESIGNED ASSUMING TOP DOWN CONSTRUCTION.
2. EVERY EFFORT HAS BEEN MADE TO PROVIDE TO SCALE DRAWINGS, HOWEVER THE DRAWINGS ARE NOT NECESSARILY TO SCALE. USE GIVEN DIMENSIONS.
3. TIEBACK DESIGNER/SUPPLIER TO VERIFY THAT ALL DETAILS, INCLUDING INSIDE DIAMETER OF POST WEB OPENING ARE COMPATIBLE WITH TIEBACK DESIGN AND INSTALLATION REQUIREMENTS.

FOUNDATION

1. GEOTECHNICAL INFORMATION TAKEN FROM:
   AMERICAN ENGINEERING TESTING, INC
   GEOTECHNICAL EXPLORATION PROPOSED CO HWY Z
   TOWN OF ROME, ADAMS COUNTY, WI
   AUGUST 7, 2009
2. REFER TO THE GEOTECHNICAL INVESTIGATION FOR INFORMATION REGARDING EXCAVATION, SIDE SLOPES, EROSION PROTECTION, AND FILL RECOMMENDATIONS.
3. DO NOT USE EXCESSIVE COMPACTION EFFORTS BEHIND RETAINING WALLS. EXCESSIVE COMPACTOR CAN RESULT IN WALL PRESSURE BUILD UP BEYOND THE DESIGN INTENT.
4. ALL RETAINING WALLS SHALL HAVE A DRAIN BOARD INSTALLED AND BE BACKFILLED USING NO.1 OR NO.2 COARSE AGGREGATE FILL. FILL SHALL BE PLACED IN MAXIMUM OF 12" LIFTS AND COMPACTED AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

CONCRETE CONSTRUCTION

1. AT THE CONTRACTOR'S OPTION, THE CONTRACTOR MAY SUBMIT ALTERNATE COST INCENTIVE DATA FOR A CAST-IN-PLACE WALL IN LIEU OF A PRE-CAST WALL. THE CAST-IN-PLACE OPTION MUST BE APPROVED PRIOR TO START OF CONSTRUCTION.
2. PRECAST CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ALL PRECAST PANELS TO THE ENGINEER OF RECORD FOR REVIEW.
3. WALL TO RECEIVE FIELD STONE FORMLINER FINISH. SEE WISCONSIN BRIDGE MANUAL STANDARD 4.01 FOR INSTALLATION REQUIREMENTS.
4. WALLS SHALL HAVE A POSITIVE DRAINAGE SYSTEM AT THE BASE OF THE WALL CONSISTING OF A WRAPPED 6" UNDERDRAIN SYSTEM PER WISCONSIN BRIDGE MANUAL STANDARD 9.01.

STEEL CONSTRUCTION

1. ALL STRUCTURAL STEEL POSTS SHALL RECEIVE AT MINIMUM A PRIME COAT OF ZINC-RICH PAINT. ADDITIONALLY, THE TOP PORTION OF THE POSTS FROM TOP OF POST DOWN TO 1' BELOW THE TOP OF FOOTING ELEVATION SHALL RECEIVE A TOTAL OF THREE COATS OF PAINT PER SECTION 517 OF THE STANDARD SPECIFICATIONS.
2. ALL TIEBACKS AND MISCELLANEOUS STEEL SHALL HAVE A 75 YEAR CORROSION PROTECTION COATING. SUPPLIER SHALL INDICATE ON SUBMITTED SHOP DRAWINGS INTENDED CORROSION PROTECTION.
3. COLOR TO BE FEDERAL STANDARD 20059 BROWN PER AMS-STD-595-COLOR.

DRILLED FOOTINGS

1. REFER TO THE PROJECT GEOTECHNICAL REPORT FOR EXPECTED SOIL PROFILES AND GROUNDWATER ELEVATIONS.

DESIGN DATA NOTES

1. ALL CONCRETE SHALL BE WISCONSIN-DOT APPROVED MIX DESIGNS, SHALL BE NORMAL WEIGHT (145 PCF), AND SHALL ACHIEVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH (FC') AS FOLLOWS:
   DRILLED SHAFTS: FC' = 3,500 PSI
   NON-PRESTRESSED WALL PANELS FC' = 4,000 PSI
2. ALL CONCRETE REINFORCING STEEL TO BE ASTM A615 GRADE 60.
3. W-SHAPES SHALL CONFORM TO ASTM A709 GRADE 50 (FY = 50 KSI).
4. PLATE STEEL SHALL CONFORM TO ASTM A36 (FY = 36 KSI).
5. ALL SQUARE AND RECTANGULAR HSS SHALL CONFORM TO ASTM A500, GRADE B (FY = 46 KSI).
6. ALL ROUND HSS SHALL CONFORM TO ASTM A500, GRADE B (FY = 42 KSI).
7. ROUGH CUT TIMBER LAGGING TO HAVE A MINIMUM TABULATED UNIT STRESS IN BENDING (FB) OF 1100 PSI.
8. WALL DESIGNED FOR 100 PSF LIVE LOAD SURCHARGE.

TABLE OF VARIABLES - PANELS

PANEL NUMBER	PANEL WIDTH	PANEL HEIGHT	BTM OF PANEL ELEV	HORIZONTAL REINFORCING
1A	7.54	6.50	927.54	#5 @ 12" OC
1B	7.54	9.25	927.54	#5 @ 12" OC
1C	7.54	10.25	927.71	#5 @ 10" OC
1D	7.54	11.25	927.71	#5 @ 10" OC
1	7.54	14.25	927.71	#5 @ 10" OC
2	7.54	16.25	927.71	#5 @ 8" OC
3	7.54	17.25	927.71	#5 @ 8" OC
4	7.54	17.25	927.71	#5 @ 8" OC
5	7.54	17.75	928.34	#5 @ 8" OC
6	7.54	17.75	928.34	#5 @ 6" OC
7	7.54	19.75	928.34	#5 @ 6" OC
8	7.54	24.00	928.34	#5 @ 6" OC
9	7.54	25.00	928.34	#5 @ 6" OC
10	7.54	27.75	928.34	#5 @ 6" OC
11	7.54	29.67	928.91	#5 @ 6" OC
12	7.54	29.67	928.91	#5 @ 6" OC
13	7.54	29.67	928.91	#5 @ 4" OC
14	7.54	29.67	928.91	#5 @ 4" OC
15	7.54	29.67	928.91	#5 @ 4" OC
16	7.54	29.67	928.91	#5 @ 4" OC
17	7.54	29.00	929.49	#5 @ 4" OC
18	7.54	29.00	929.49	#5 @ 4" OC
19	7.54	29.00	929.49	#5 @ 4" OC
20	7.54	29.00	929.49	#5 @ 4" OC
21	7.54	29.00	929.49	#5 @ 4" OC
22	7.54	29.00	929.49	#5 @ 4" OC
23	7.54	28.50	930.03	#5 @ 4" OC
24	7.54	28.50	930.03	#5 @ 4" OC
25	7.54	28.50	930.03	#5 @ 4" OC
26	7.54	28.50	930.03	#5 @ 4" OC
27	7.54	28.50	930.03	#5 @ 4" OC
28	7.54	28.50	930.03	#5 @ 4" OC
29	7.54	28.00	930.59	#5 @ 4" OC
30	7.54	28.00	930.59	#5 @ 4" OC
31	7.54	28.00	930.59	#5 @ 4" OC
32	7.54	28.00	930.59	#5 @ 4" OC
33	7.54	28.00	930.59	#5 @ 4" OC
34	7.54	28.00	930.59	#5 @ 6" OC
35	7.54	27.50	931.07	#5 @ 6" OC
36	7.54	27.50	931.07	#5 @ 6" OC
37	7.54	26.00	931.07	#5 @ 6" OC
38	7.54	23.00	931.07	#5 @ 6" OC
39	7.54	19.00	931.07	#5 @ 8" OC
40	7.54	15.50	931.07	#5 @ 8" OC

NOTES:
1. VERIFY ℄ TO ℄ INSTALLED PILES PRIOR TO CASTING.
2. REINFORCEMENT BARS IN SCHEDULE ARE TOWARD OUTSIDE OF PANEL AND EACH WAY
3. PROVIDE #4 BARS @ 18" O.C. EACH WAY AT BACK (HILLSIDE) OF EACH PANEL, TYP.

TABLE OF VARIABLES - POSTS

POST NUMBER	STATION	BTM OF FTG ELEV	TOP OF FTG ELEV	FOOTING HEIGHT	TOP OF POST ELEV	POST LENGTH	UPPER TIE ELEV	LOWER TIE ELEV
1A	974+00.32	917.04	927.54	10.5	934.04	16.33	N/A	N/A
1B	973+92.93	917.04	927.54	10.5	936.96	19.25	N/A	N/A
1C	973+85.53	917.21	927.71	10.5	937.96	20.08	932.96	N/A
1D	973+78.14	917.21	927.71	10.5	938.96	21.08	932.96	N/A
1	973+70.74	915.21	927.71	12.5	941.96	26.08	934.96	N/A
2	973+62.35	915.21	927.71	12.5	943.96	28.08	936.96	N/A
3	973+53.7	915.21	927.71	12.5	944.96	29.08	936.96	N/A
4	973+45.05	915.21	927.71	12.5	944.96	29.08	937.96	N/A
5	973+36.4	915.21	927.71	12.5	946.09	30.21	939.34	N/A
6	973+27.75	915.84	928.34	12.5	946.09	29.58	939.34	N/A
7	973+19.1	912.84	928.34	15.5	948.09	34.58	942.09	934.09
8	973+10.45	912.84	928.34	15.5	952.34	38.83	944.34	934.34
9	973+1.8	909.84	928.34	18.5	953.34	42.83	946.34	936.34
10	972+93.15	909.84	928.34	18.5	956.09	45.58	950.09	938.09
11	972+84.5	909.84	928.34	18.5	958.58	48.08	951.58	940.58
12	972+75.85	910.41	928.91	18.5	958.58	47.50	952.58	940.58
13	972+67.2	910.41	928.91	18.5	958.58	46.50	952.58	940.58
14	972+58.55	910.41	928.91	18.5	958.58	47.50	952.58	940.58
15	972+49.9	910.41	928.91	18.5	958.58	47.50	952.58	940.58
16	972+41.25	910.41	928.91	18.5	958.58	47.50	952.58	940.58
17	972+32.6	910.41	928.91	18.5	958.58	47.50	952.58	940.58
18	972+23.95	910.99	929.49	18.5	958.49	46.83	952.49	940.49
19	972+15.3	910.99	929.49	18.5	958.49	46.83	952.49	940.49
20	972+6.65	910.99	929.49	18.5	958.49	46.83	952.49	940.49
21	971+98	910.99	929.49	18.5	958.49	46.83	952.49	940.49
22	971+89.35	910.99	929.49	18.5	958.49	46.83	952.49	940.49
23	971+80.7	910.99	929.49	18.5	958.53	46.88	952.53	940.53
24	971+72.05	911.53	930.03	18.5	958.53	46.33	952.53	940.53
25	971+63.4	911.53	930.03	18.5	958.53	46.33	952.53	940.53
26	971+54.75	911.53	930.03	18.5	958.53	46.33	952.53	940.53
27	971+46.1	911.53	930.03	18.5	958.53	46.33	952.53	940.53
28	971+37.45	911.53	930.03	18.5	958.53	46.33	952.53	940.53
29	971+28.8	911.53	930.03	18.5	958.59	46.39	952.59	940.59
30	971+20.15	915.09	930.59	15.5	958.59	42.83	952.59	940.59
31	971+11.5	915.09	930.59	15.5	958.59	42.83	952.59	940.59
32	971+2.85	915.09	930.59	15.5	958.59	42.83	952.59	940.59
33	970+94.2	915.09	930.59	15.5	958.59	42.83	952.59	940.59
34	970+85.55	915.09	930.59	15.5	958.59	42.83	952.59	940.59
35	970+76.9	915.09	930.59	15.5	958.59	42.83	952.59	940.59
36	970+68.25	915.57	931.07	15.5	958.57	42.33	952.57	940.57
37	970+59.6	915.57	931.07	15.5	958.57	42.33	948.57	939.57
38	970+50.95	915.57	931.07	15.5	957.07	40.83	948.57	939.57
39	970+42.3	915.57	931.07	15.5	954.07	37.83	945.07	939.07
40	970+33.65	918.57	931.07	12.5	950.07	30.83	942.07	N/A
41	970+25	920.57	931.07	10.5	946.57	25.33	938.07	N/A

NOTES:
1. POST STATION IS REFERENCED TO CENTERLINE OF ROAD AND CORRESPONDS TO AN 8'-0" C-C POST SPACING AT WALL (SEE ELEVATIONS).

TOTAL ESTIMATED QUANTITIES

BID NUMBER	BID ITEM	UNITS	TOTAL QUANTITY
206.3000	EXCAVATION FOR STRUCTURES RETAINING WALL R-01-002	LS	1
502.0110.S	CONCRETE MASONRY SOLDIER PILE FOOTINGS	CY	130
506.0605	STRUCTURAL STEEL HS	LB	95,185
517.0600	PAINTING EPOXY SYSTEM R-01-002	LS	1
517.1015.S	CONCRETE STAINING MULTI-COLOR R-01-002	SF	8021
517.1050.S	ARCHITECTURAL SURFACE TREATMENT	SF	8021
532.1000.S	PRECAST PANELS FOR SOLDIER PILE WALLS	SF	8021
612.0406	WRAPPED 6" PIPE UNDERDRAIN	LF	400
636.0050.S	FOUNDATION DRILLING - 30 INCH DIAMETER	LF	715
SPV 0060.01	TIEBACK ANCHORS	EACH	76
SPV 0060.02	TIEBACK ANCHORS PERFORMANCE TESTS	EACH	8
SPV 0110.01	TIMBER LAGGING	MBM	27.7
SPV 0165.01	GEOCOMPOSITE DRAIN BOARD	SF	8530
	NON-BID ITEM	UNITS	TOTAL QUANTITY
	FILL BEHIND TIMBER LAGGING (SEE NOTE 2 BELOW)	CY	446
	FILL BETWEEN LAGGING AND PRECAST PANEL	CY	119

NOTES:
1. ALL QUANTITIES LISTED ABOVE ARE ESTIMATES. CONTRACTOR TO BE RESPONSIBLE FOR FINAL QUANTITIES.
2. VOLUME OF FILL IS BASED ON A UNIFORM 1'-6" WIDTH OF FILL BEHIND THE ENTIRE AREA OF THE RETAINING WALL. ADDITIONAL FILL MAY BE REQUIRED BASED ON EXCAVATION. ANY ADDITIONAL FILL IS THE RESPONSIBILITY OF THE CONTRACTOR.
3. FLOWABLE GROUT AND CONTROLLED LOW STRENGTH MATERIAL (CLSM) TO BE INCLUDED IN BID ITEM 206.3000 "EXCAVATION FOR STRUCTURES RETAINING WALL R-01-002".

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-01-002

RETAINING WALL ALONG CTH Z

COUNTY	TOWN		
ADAMS	ROME		
DESIGN SPEC. AASHTO LRFD Spec. 2012	LOAD H10	CONST. SPEC. 2018	
DESIGNED BY JDH	DESIGN CK'D. MLP	DRAWN BY JDH	PLANS CK'D. MLP

NOTES AND QUANTITIES

SHEET 2 OF 8

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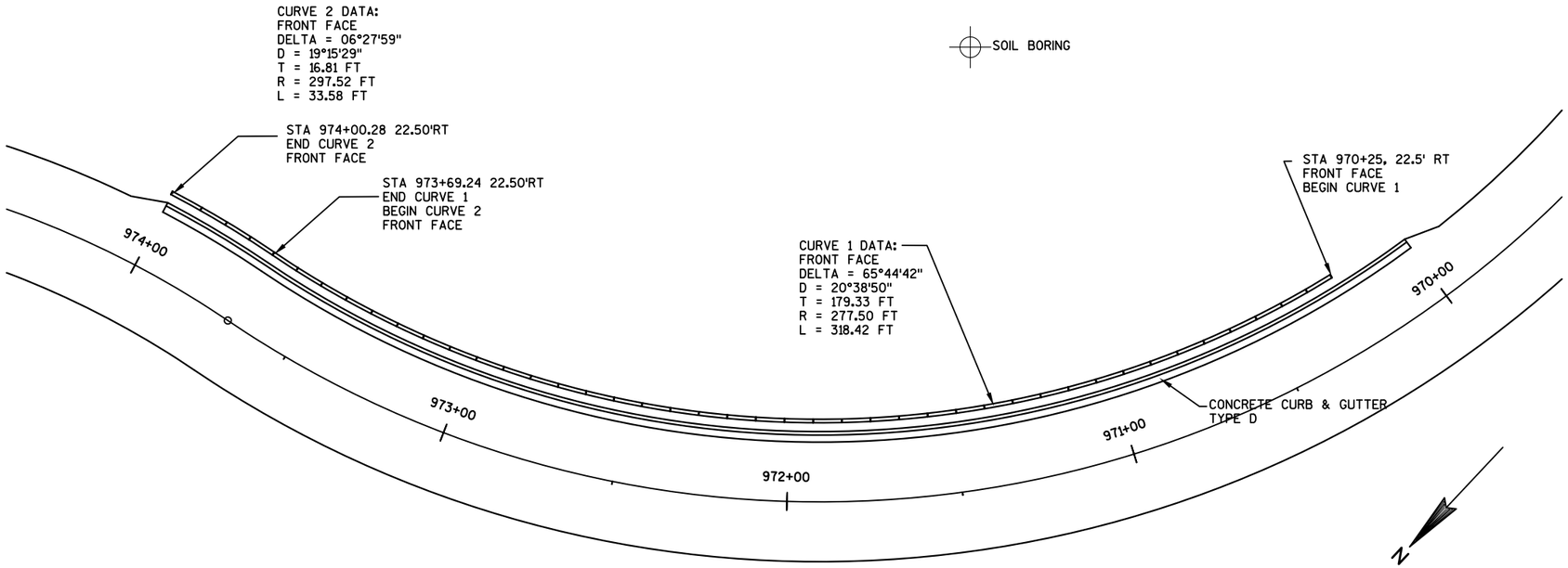
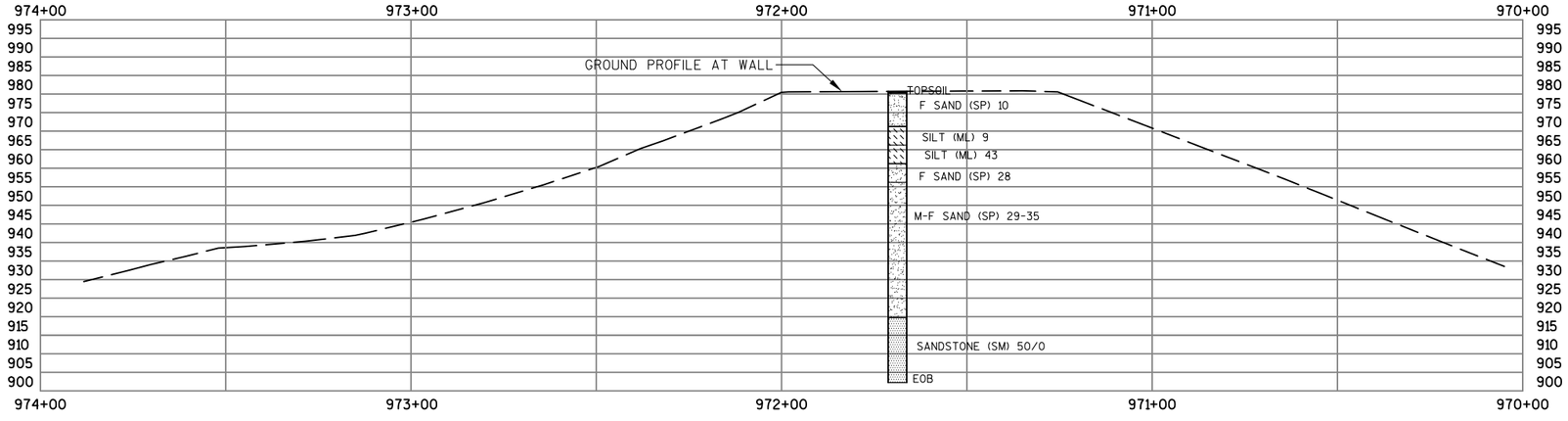
8

8



PLAN



PROFILE

STATE PROJECT NUMBER

6355-00-75

ABBREVIATIONS

F— Fine M—Medium C— Coarse
Ws— Weathered So — Sound

MATERIAL SYMBOLS

Topsoil, Silt, Sandstone, Sand, Peat, Limestone, Gravel, Clay, Igneous Rock

LEGEND OF PROBING

95/6=95 BLOWS FOR 6" PENETRATION
PROBING TAKEN WITH A 350# WT. FALLING 18" ON A 2" O.D. POINT.

Probing No.
Sta.
Elevation
7 Average Blows Per Foot
Refusal 95/6

LEGEND OF BORING

Boring No.
Elev. Sta.
Unconfined STRENGTH → 7. 7
Blows Per Ft. USING 140# WT. FALLING 30"
Wash Sample
Shelby Tube — S.T.
Ground Water ELEVATION
No Ground Water OBSERVED ABOVE THIS ELEVATION
Sandy Gravel
F. Boulders or COBBLES
Sand
Silty Clay
So Limestone

UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

8

8

STRUCTURE R-01-002

RETAINING WALL ALONG CTH Z

COUNTY	TOWN
ADAMS	ROME

DESIGN SPEC. AASHTO LRFD Spec. 2012

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
JK	JK	AL	JK

SUBSURFACE EXPLORATION

SHEET 3 OF 8

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I.D. 6355-00-75

DATE: Oct 2017

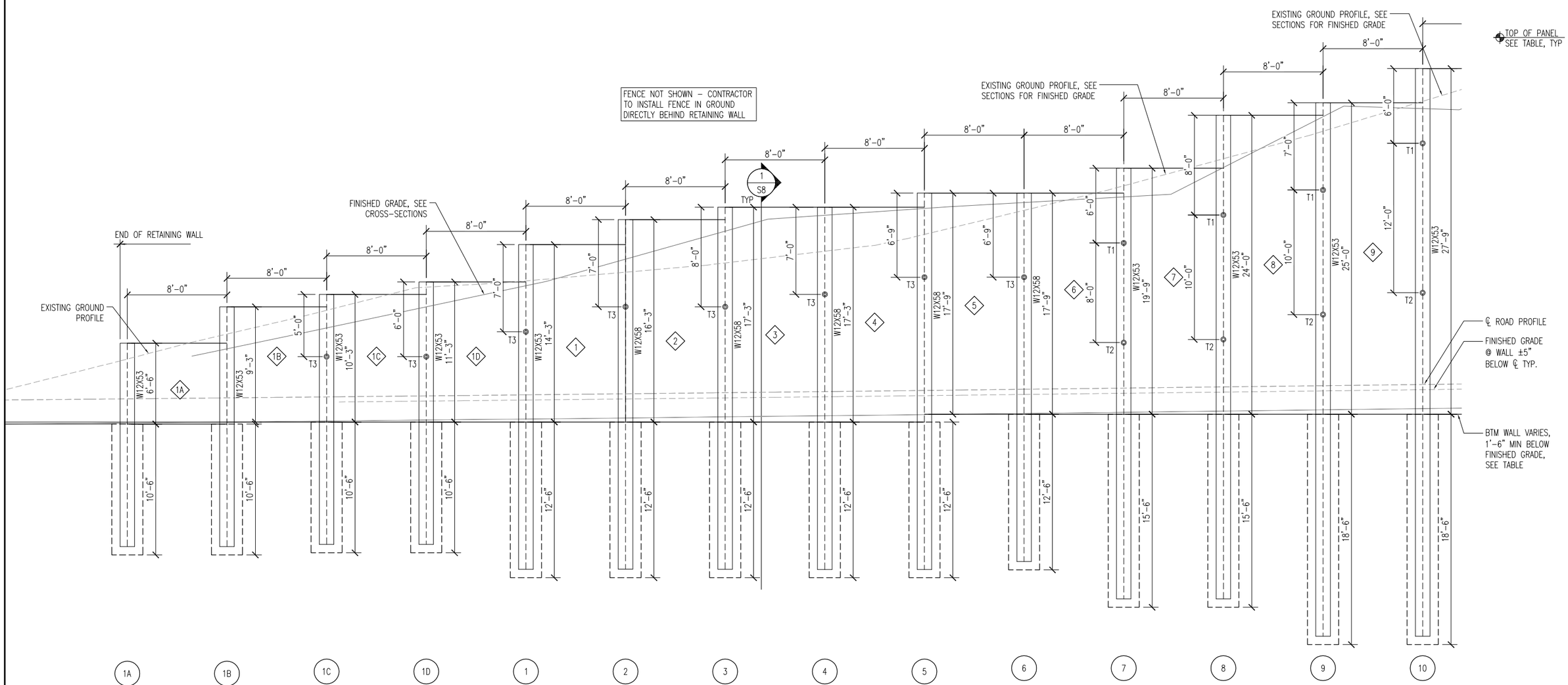
SCALE = 1"=40'

PLAN NOTES

1. SEE SHEET S2 FOR ADDITIONAL NOTES.

STATE PROJECT NUMBER

6355-00-75



1 S4 PARTIAL ELEVATION @ CURVE LOOKING SOUTH

SCALE: N.T.S.

TIE BACK ANCHORS			
TIEBACK NUMBER	STRENGTH LEVEL FORCE	UNBONDED LENGTH	APPROX BONDED LENGTH
T1	157k	21.0'	25'
T2	187k	15.0'	30'
T3	63k	15.0'	11'

NOTES:
1. BONDED EMBEDMENT LENGTH ESTIMATE BASED ON GROUTED TIEBACKS PER AASHTO TABLE C11.9.4.2-2: PRESUMPTIVE ULTIMATE UNIT BOND STRESS FOR ANCHORS IN COHESIONLESS SOIL.
2. FINAL SELECTION OF TYPE & EMBEDMENT DESIGN SHALL BE BY THE TIE BACK SUPPLIER.

LEGEND:

◇1 PANEL NUMBER

(1) POST NUMBER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-01-002

RETAINING WALL ALONG CTH Z

COUNTY	TOWN	
ADAMS	ROME	
DESIGN SPEC. AASHTO LRFD Spec. 2012	LOAD H10	CONST. SPEC. 2018
DESIGNED BY JDH / DESIGN CK'D. MLP	DRAWN BY JDH	PLANS CK'D. MLP

PARTIAL ELEVATION

SHEET 4 OF 8

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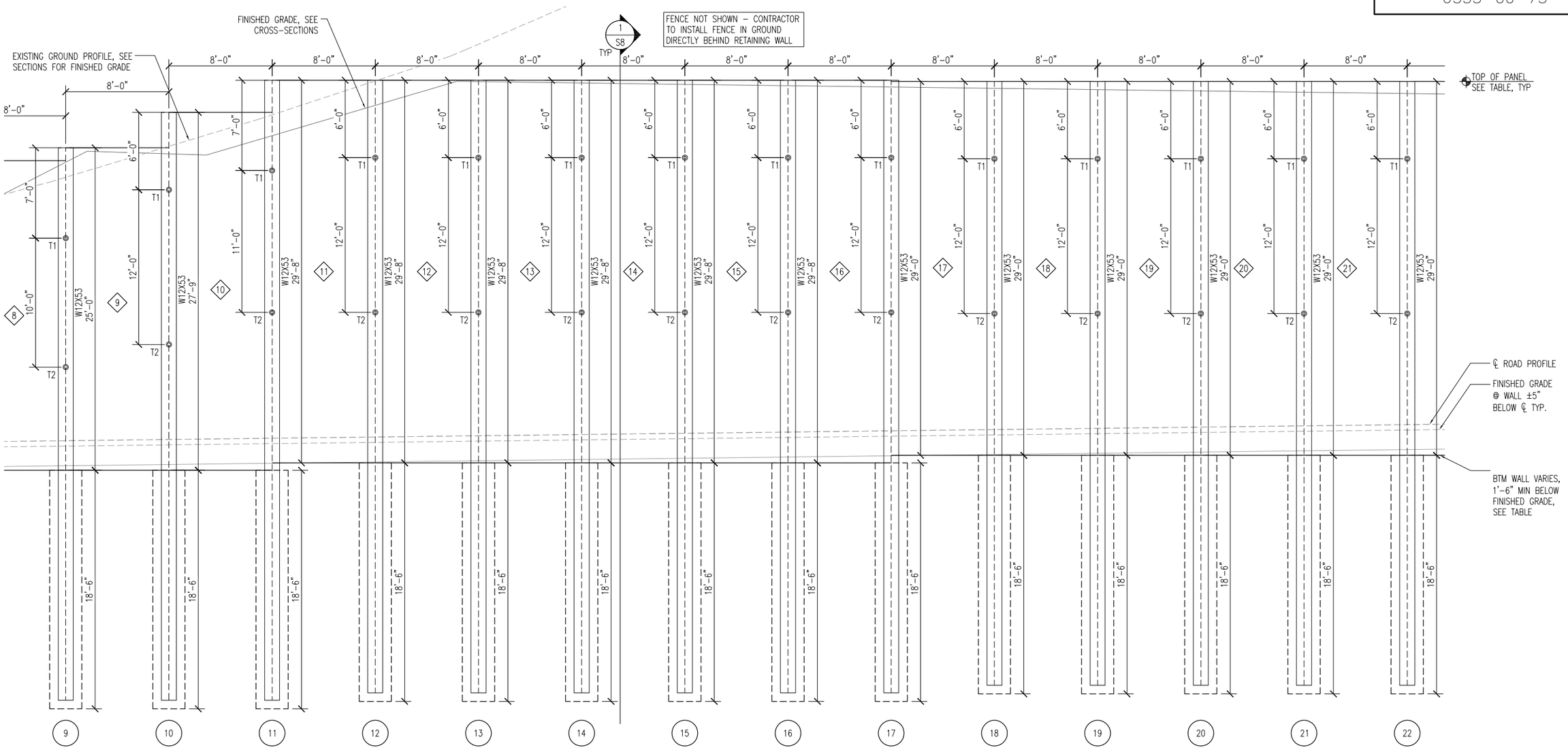
PLAN NOTES

1. SEE SHEET S2 FOR ADDITIONAL NOTES.

STATE PROJECT NUMBER

6355-00-75



TIE BACK ANCHORS

TIEBACK NUMBER	STRENGTH LEVEL FORCE	UNBONDED LENGTH	APPROX BONDED LENGTH
T1	157k	21.0'	25'
T2	187k	15.0'	30'
T3	63k	15.0'	11'

NOTES:
1. BONDED EMBEDMENT LENGTH ESTIMATE BASED ON GROUTED TIEBACKS PER AASHTO TABLE C11.9.4.2-2: PRESUMPTIVE ULTIMATE UNIT BOND STRESS FOR ANCHORS IN COHESIONLESS SOIL.
2. FINAL SELECTION OF TYPE & EMBEDMENT DESIGN SHALL BE BY THE TIE BACK SUPPLIER.

LEGEND:

◇1 PANEL NUMBER

(1) POST NUMBER

1/S5 PARTIAL ELEVATION @ CURVE LOOKING SOUTH

SCALE: N.T.S.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-01-002

RETAINING WALL ALONG CTH Z

COUNTY	TOWN	
ADAMS	ROME	
DESIGN SPEC. AASHTO LRFD Spec. 2012	LOAD H10	CONST. SPEC. 2018
DESIGNED BY JDH / DESIGN CK'D. MLP	DRAWN BY JDH	PLANS CK'D. MLP

PARTIAL ELEVATION

SHEET 5 OF 8

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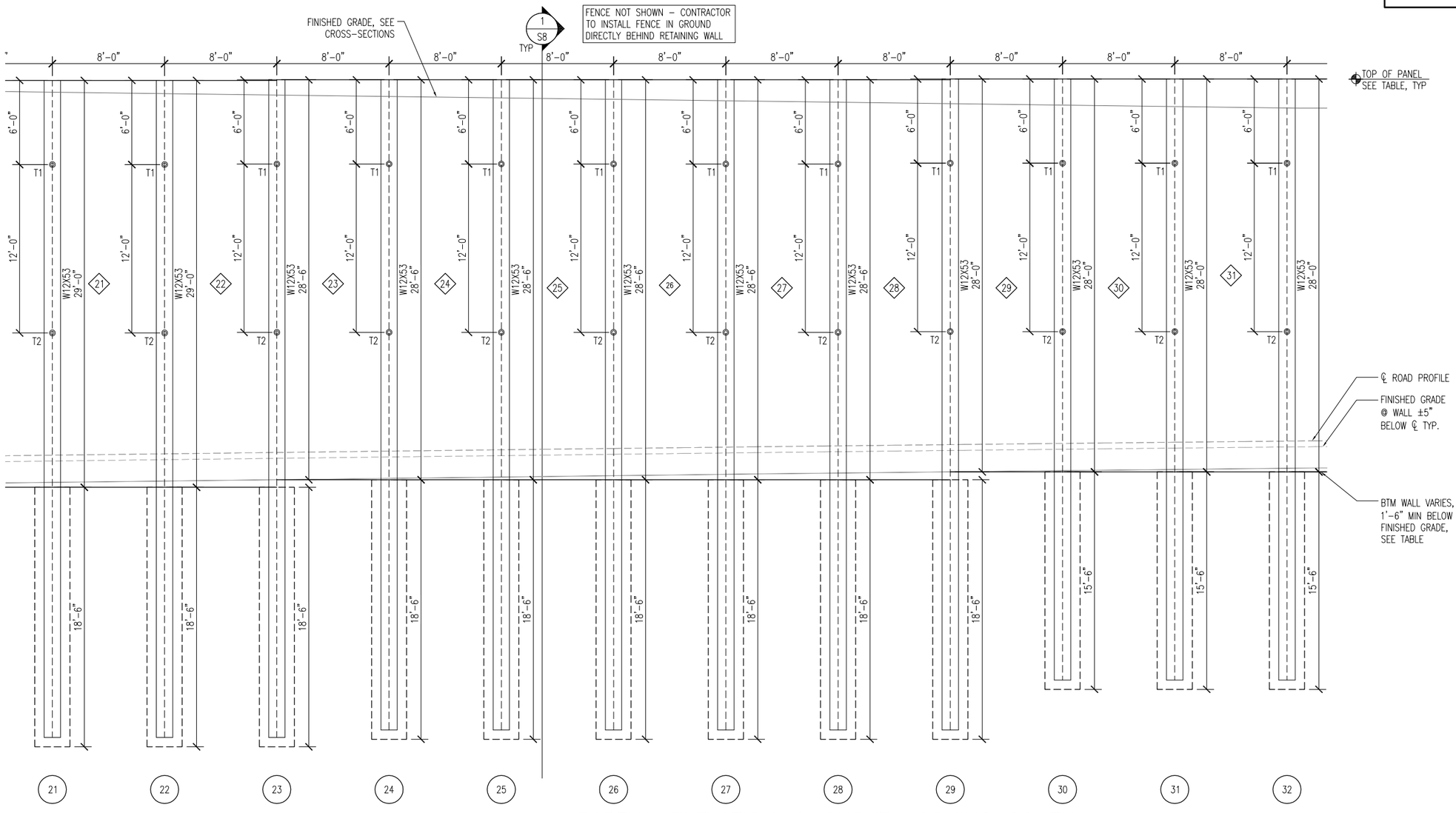
PLAN NOTES

1. SEE SHEET S2 FOR ADDITIONAL NOTES.

STATE PROJECT NUMBER

6355-00-75



1/S6 PARTIAL ELEVATION @ CURVE LOOKING SOUTH

SCALE: N.T.S.

TIE BACK ANCHORS			
TIEBACK NUMBER	STRENGTH LEVEL FORCE	UNBONDED LENGTH	APPROX BONDED LENGTH
T1	157k	21.0'	25'
T2	187k	15.0'	30'
T3	63k	15.0'	11'

NOTES:
1. BONDED EMBEDMENT LENGTH ESTIMATE BASED ON GROUTED TIEBACKS PER AASHTO TABLE C11.9.4.2-2: PRESUMPTIVE ULTIMATE UNIT BOND STRESS FOR ANCHORS IN COHESIONLESS SOIL.
2. FINAL SELECTION OF TYPE & EMBEDMENT DESIGN SHALL BE BY THE TIE BACK SUPPLIER.

LEGEND:

◇1 PANEL NUMBER

(1) POST NUMBER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-01-002

RETAINING WALL ALONG CTH Z

COUNTY	TOWN
ADAMS	ROME

DESIGN SPEC.	LOAD	CONST. SPEC.
AASHTO LRFD Spec. 2012	H10	2018

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
JDH	MLP	JDH	MLP

PARTIAL ELEVATION

SHEET 6 OF 8

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8

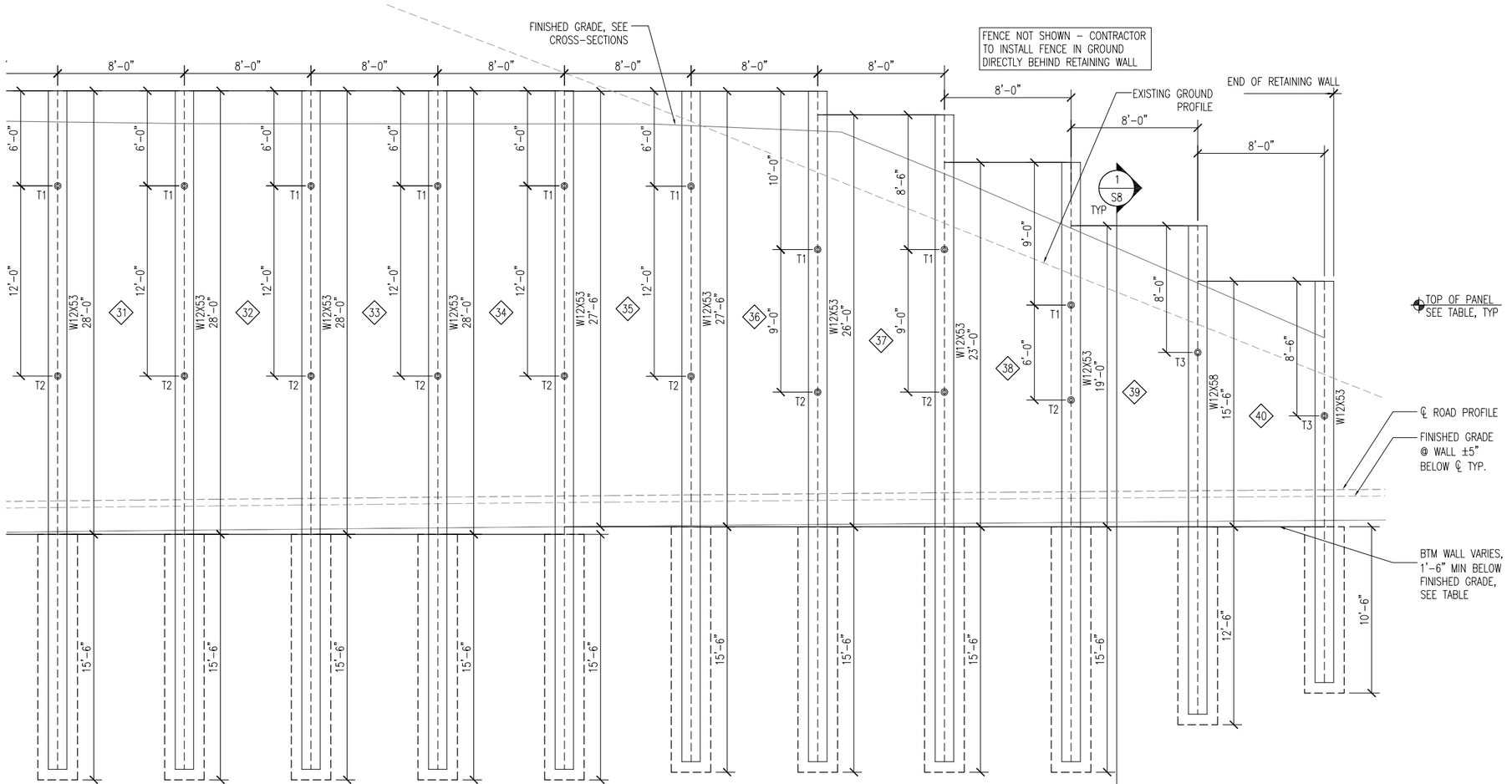
8

PLAN NOTES

1. SEE SHEET S2 FOR ADDITIONAL NOTES.

STATE PROJECT NUMBER

6355-00-75



TIE BACK ANCHORS			
TIEBACK NUMBER	STRENGTH LEVEL FORCE	UNBONDED LENGTH	APPROX BONDED LENGTH
T1	157k	21.0'	25'
T2	187k	15.0'	30'
T3	63k	15.0'	11'

NOTES:
1. BONDED EMBEDMENT LENGTH ESTIMATE BASED ON GROUTED TIEBACKS PER AASHTO TABLE C11.9.4.2-2: PRESUMPTIVE ULTIMATE UNIT BOND STRESS FOR ANCHORS IN COHESIONLESS SOIL.
2. FINAL SELECTION OF TYPE & EMBEDMENT DESIGN SHALL BE BY THE TIE BACK SUPPLIER.

LEGEND:

◇1 PANEL NUMBER

(1) POST NUMBER

1/S7 PARTIAL ELEVATION @ CURVE LOOKING SOUTH

SCALE: N.T.S.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-01-002

RETAINING WALL ALONG CTH Z

COUNTY	ADAMS	TOWN	ROME	
DESIGN SPEC. AASHTO LRFD Spec. 2012		LOAD H10	CONST. SPEC. 2018	
DESIGNED BY JDH	DESIGN CK'D. MLP	DRAWN BY JDH	PLANS CK'D. MLP	

PARTIAL ELEVATION

SHEET 7 OF 8

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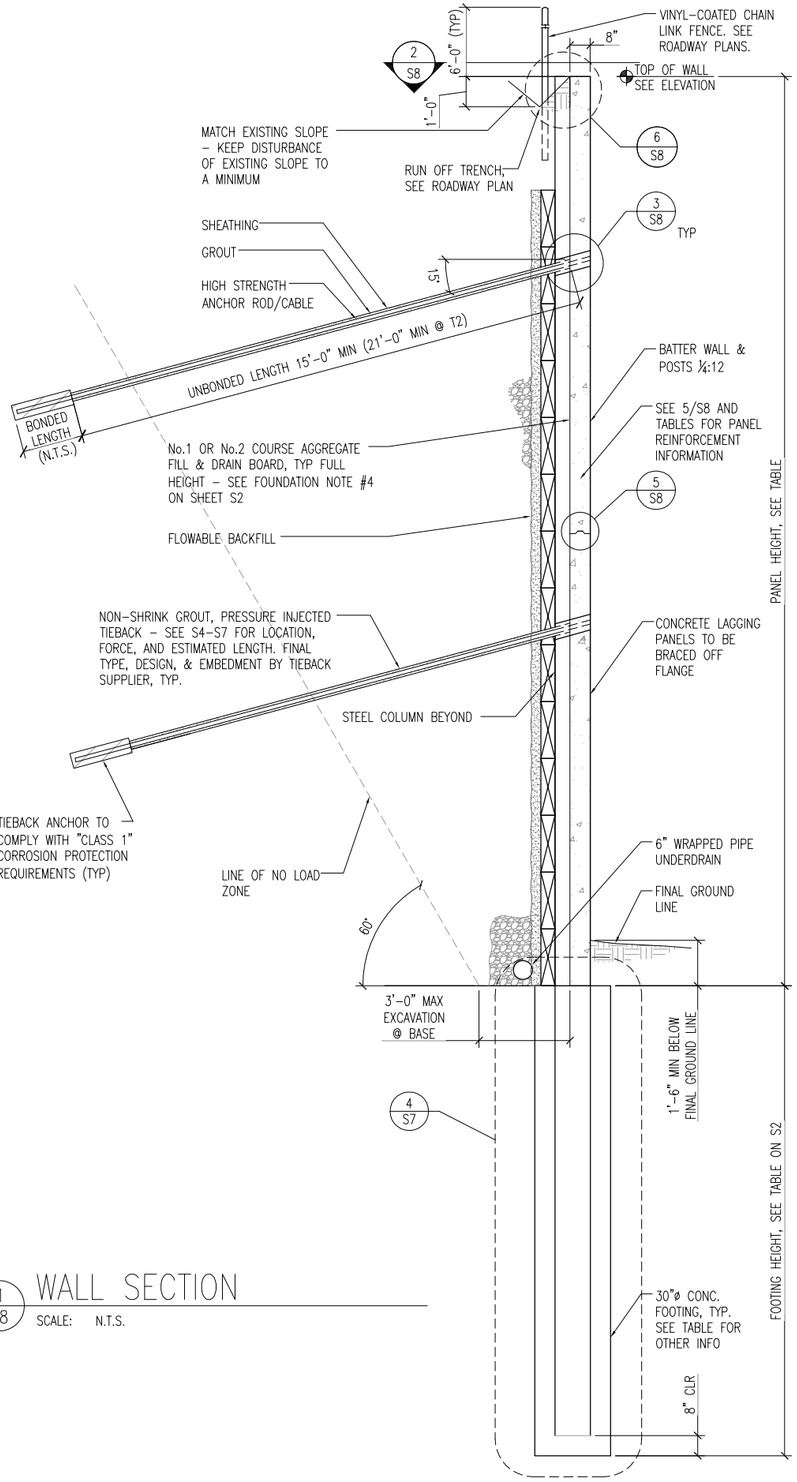
8

8

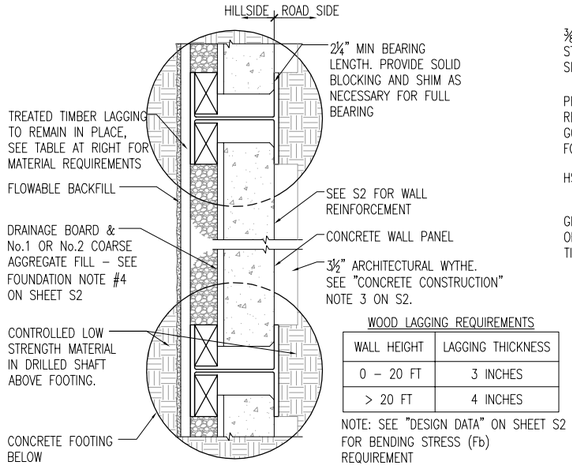
STATE PROJECT NUMBER

6355-00-75



1 S8 WALL SECTION

SCALE: N.T.S.



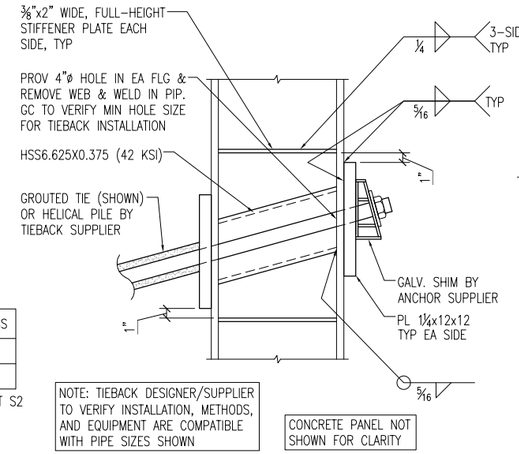
WOOD LAGGING REQUIREMENTS

WALL HEIGHT	LAGGING THICKNESS
0 – 20 FT	3 INCHES
> 20 FT	4 INCHES

NOTE: SEE "DESIGN DATA" ON SHEET S2 FOR BENDING STRESS (Fb) REQUIREMENT

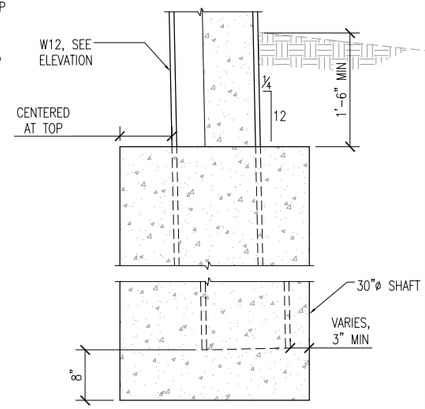
2 S8 WALL – PLAN VIEW

SCALE: N.T.S.



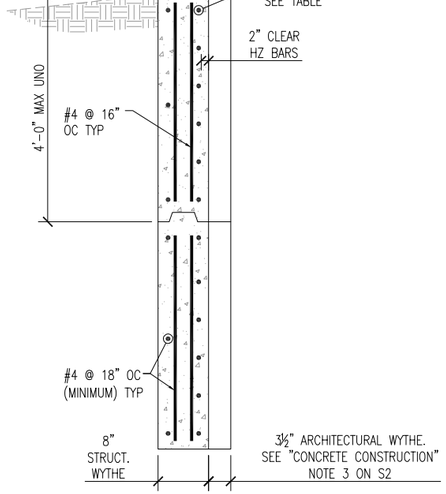
3 S8 ANCHOR DETAIL

SCALE: N.T.S.



4 S8 FOOTING DETAIL

SCALE: N.T.S.

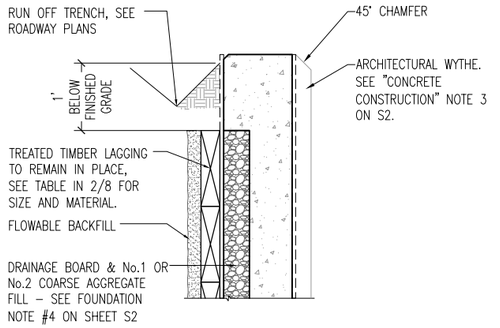


SECTION "A"

NOTES:
1. PLACE HORIZONTAL CONSTRUCTION JOINTS BETWEEN ADJACENT PANELS AT THE SAME ELEVATION.
2. PANEL HEIGHT TO BE 4' MAX OR AS DETERMINED BY PRECAST SUPPLIER AND CONSTRUCTION TEAM.
3. SEE TABLE FOR PANELS ON SHEET S2 FOR REINFORCING SIZE AND SPACING.

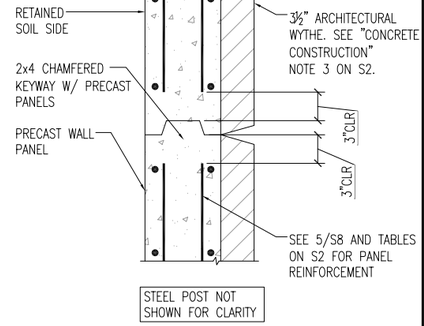
5 S8 PANEL REINFORCEMENT DETAIL

SCALE: N.T.S.



6 S8 TOP OF WALL DETAIL

SCALE: 1" = 1'-0"



7 S8 KEYWAY DETAIL

SCALE: N.T.S.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-01-002

RETAINING WALL ALONG CTH Z

COUNTY	ADAMS	TOWN	ROME	
DESIGN SPEC.	AASHTO LRFD Spec. 2012	LOAD	H10	CONST. SPEC. 2018
DESIGNED BY	JDH	DESIGN CK'D.	MLP	DRAWN BY JDH / PLANS CK'D. MLP

DETAILS

SHEET 8 OF 8

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8

STATION	Real Station	Distance	AREA (SF) Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Incremental Vol (CY) (Unadjusted) Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cumulative Vol (CY) Cut	Expanded Fill	Expanded Marsh Backfill	Expanded Rock	Expanded EBS Backfill	Reduced Marsh in Fill	Reduced EBS in Fill	Mass Ordinate
															1.00	1.25	1.50	1.10	1.30	0.60	0.80	
									Note 1	Note 2	Note 3				Note 1		Note 4		Note 5	Note 6	Note 7	Note 8
866+00	86763.69	0.00	59.99	0.00	2.68	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
867+00	86863.69	100.00	45.14	0.00	3.40	0.00	0.00	0.00	195	0	11	0	0	0	195	14	0	0	0	0	0	181
868+00	86963.69	100.00	35.79	0.00	5.46	0.00	0.00	0.00	150	0	16	0	0	0	345	35	0	0	0	0	0	310
869+00	87063.69	100.00	48.84	0.00	6.74	0.00	0.00	0.00	157	0	23	0	0	0	501	63	0	0	0	0	0	438
870+00	87163.69	100.00	67.15	0.00	2.56	0.00	0.00	0.00	215	0	17	0	0	0	716	84	0	0	0	0	0	632
871+00	87263.69	100.00	86.71	0.00	1.34	0.00	0.00	0.00	285	0	7	0	0	0	1,001	93	0	0	0	0	0	908
871+75.13	87338.82	75.13	292.64	0.00	1.80	0.00	0.00	0.00	528	0	4	0	0	0	1,529	99	0	0	0	0	0	1,430
872+00	87363.69	24.87	428.35	0.00	1.49	0.00	0.00	0.00	332	0	2	0	0	0	1,861	101	0	0	0	0	0	1,760
873+00	87463.69	100.00	81.51	0.00	1.23	0.00	0.00	0.00	944	0	5	0	0	0	2,805	107	0	0	0	0	0	2,698
874+00	87563.69	100.00	71.29	0.00	0.87	0.00	0.00	0.00	283	0	4	0	0	0	3,088	112	0	0	0	0	0	2,976
875+00	87663.69	100.00	67.68	0.00	1.03	0.00	0.00	0.00	257	0	4	0	0	0	3,345	116	0	0	0	0	0	3,229
876+00	87763.69	100.00	91.92	0.00	0.00	0.00	0.00	0.00	296	0	2	0	0	0	3,641	119	0	0	0	0	0	3,522
877+00	87863.69	100.00	110.88	0.00	0.00	0.00	0.00	0.00	376	0	0	0	0	0	4,016	119	0	0	0	0	0	3,898
877+55.56	87919.25	55.56	118.89	0.00	0.00	0.00	0.00	0.00	236	0	0	0	0	0	4,253	119	0	0	0	0	0	4,134
878+00	87963.69	44.44	115.18	0.00	0.00	0.00	0.00	0.00	193	0	0	0	0	0	4,445	119	0	0	0	0	0	4,327
878+05.56	87969.25	5.56	114.80	0.00	0.00	0.00	0.00	0.00	24	0	0	0	0	0	4,469	119	0	0	0	0	0	4,350
878+55.56	88019.25	50.00	103.94	0.00	0.00	0.00	0.00	0.00	203	0	0	0	0	0	4,672	119	0	0	0	0	0	4,553
878+98.9	88062.59	43.34	100.53	0.00	0.37	0.00	0.00	0.00	164	0	0	0	0	0	4,836	119	0	0	0	0	0	4,717
879+05.56	88069.25	6.66	100.61	0.00	0.63	0.00	0.00	0.00	25	0	0	0	0	0	4,861	119	0	0	0	0	0	4,741
879+20.56	88084.25	15.00	102.76	0.00	1.23	0.00	0.00	0.00	56	0	1	0	0	0	4,917	120	0	0	0	0	0	4,797
879+50	88113.69	29.44	105.83	0.00	1.64	0.00	0.00	0.00	114	0	2	0	0	0	5,031	122	0	0	0	0	0	4,909
880+00	88163.69	50.00	100.05	0.00	3.68	0.00	0.00	0.00	191	0	5	0	0	0	5,221	128	0	0	0	0	0	5,093
880+50	88213.69	50.00	89.87	0.00	4.93	0.00	0.00	0.00	176	0	8	0	0	0	5,397	138	0	0	0	0	0	5,259
881+00	88263.69	50.00	77.89	0.00	6.74	0.00	0.00	0.00	155	0	11	0	0	0	5,553	152	0	0	0	0	0	5,401
881+50	88313.69	50.00	66.81	0.00	8.06	0.00	0.00	0.00	134	0	14	0	0	0	5,687	169	0	0	0	0	0	5,518
881+95.63	88359.32	45.63	57.73	0.00	8.28	0.00	0.00	0.00	105	0	14	0	0	0	5,792	186	0	0	0	0	0	5,606
882+00	88363.69	4.37	56.79	0.00	8.28	0.00	0.00	0.00	9	0	1	0	0	0	5,801	188	0	0	0	0	0	5,614
882+50	88413.69	50.00	49.65	0.00	8.62	0.00	0.00	0.00	99	0	16	0	0	0	5,900	207	0	0	0	0	0	5,693
883+00	88463.69	50.00	62.83	0.00	9.02	0.00	0.00	0.00	104	0	16	0	0	0	6,004	228	0	0	0	0	0	5,776
883+50	88513.69	50.00	57.90	0.00	6.36	0.00	0.00	0.00	112	0	14	0	0	0	6,116	245	0	0	0	0	0	5,870
883+96	88559.69	46.00	71.42	0.00	0.48	0.00	0.00	0.00	110	0	6	0	0	0	6,226	253	0	0	0	0	0	5,973
884+00	88563.69	4.00	71.82	0.00	0.43	0.00	0.00	0.00	11	0	0	0	0	0	6,236	253	0	0	0	0	0	5,984
884+50	88613.69	50.00	64.81	0.00	4.21	0.00	0.00	0.00	127	0	4	0	0	0	6,363	258	0	0	0	0	0	6,105
884+70.69	88634.38	20.69	67.56	0.00	3.55	0.00	0.00	0.00	51	0	3	0	0	0	6,414	262	0	0	0	0	0	6,152
884+85.69	88649.38	15.00	69.61	0.00	2.45	0.00	0.00	0.00	38	0	2	0	0	0	6,452	264	0	0	0	0	0	6,188
884+92.35	88656.04	6.66	71.15	0.00	1.92	0.00	0.00	0.00	17	0	1	0	0	0	6,469	265	0	0	0	0	0	6,205
885+35.69	88699.38	43.34	85.15	0.00	0.03	0.00	0.00	0.00	125	0	2	0	0	0	6,595	267	0	0	0	0	0	6,328
885+85.69	88749.38	50.00	105.15	0.00	0.00	0.00	0.00	0.00	176	0	0	0	0	0	6,771	267	0	0	0	0	0	6,504
886+00	88763.69	14.31	108.53	0.00	0.00	0.00	0.00	0.00	57	0	0	0	0	0	6,827	267	0	0	0	0	0	6,561
886+35.69	88799.38	35.69	116.54	0.00	0.00	0.00	0.00	0.00	149	0	0	0	0	0	6,976	267	0	0	0	0	0	6,710
887+00	88863.69	64.31	102.44	0.00	0.10	0.00	0.00	0.00	261	0	0	0	0	0	7,237	267	0	0	0	0	0	6,970
888+00	88963.69	100.00	114.68	0.00	0.00	0.00	0.00	0.00	402	0	0	0	0	0	7,639	267	0	0	0	0	0	7,372
889+00	89063.69	100.00	107.96	0.00	0.05	0.00	0.00	0.00	412	0	0	0	0	0	8,051	267	0	0	0	0	0	7,784
890+00	89163.69	100.00	87.17	0.00	0.44	0.00	0.00	0.00	361	0	1	0	0	0	8,413	268	0	0	0	0	0	8,144
891+00	89263.69	100.00	77.21	0.00	0.55	0.00	0.00	0.00	304	0	2	0	0	0	8,717	270	0	0	0	0	0	8,447
892+00	89363.69	100.00	72.06	0.00	0.56	0.00	0.00	0.00	276	0	2	0	0	0	8,993	273	0	0	0	0	0	8,720
893+00	89463.69	100.00	64.25	0.00	1.63	0.00	0.00	0.00	252	0	4	0	0	0	9,246	278	0	0	0	0	0	8,968
894+00	89563.69	100.00	68.16	0.00	0.97	0.00	0.00	0.00	245	0	5	0	0	0	9,491	284	0	0	0	0	0	9,207
894+46.13	89609.82	46.13	66.94	0.00	0.71	0.00	0.00	0.00	115	0	1	0	0	0	9,606	286	0	0	0	0	0	9,321
894+97.2	89660.89	51.07	63.39	0.00	1.22	0.00	0.00	0.00	123	0	2	0	0	0	9,730	288	0	0	0	0	0	9,442
895+00	89663.69	2.80	62.77	0.00	1.25	0.00	0.00	0.00	7	0	0	0	0	0	9,736	288	0	0	0	0	0	9,448
895+48.27	89711.96	48.27	48.97	0.00	2.08	0.00	0.00	0.00	100	0	3	0	0	0	9,836	292	0	0	0	0	0	9,544
895+92.54	89756.23	44.27	55.53	0.00	1.84	0.00	0.00	0.00	86	0	3	0	0	0	9,922	296	0	0	0	0	0	9,626
895+99.34	89763.03	6.80	56.77	0.00	1.76	0.00	0.00	0.00	14	0	0	0	0	0	9,936	297	0	0	0	0	0	9,639
896+40.2	89803.89	40.86	62.81	0.00	2.10	0.00	0.00	0.00	90	0	3	0	0	0	10,026	300	0	0	0	0	0	9,726
896+50	89813.69	9.80	63.44	0.00	2.16	0.00	0.00	0.00	23	0	1	0	0	0	10,049	301	0	0	0	0	0	9,748
897+00	89863.69	50.00	61.75	0.00	2.02	0.00	0.00	0.00	116	0	4	0	0	0	10,165	306	0	0	0	0	0	9,859
897+50	89913.69	50.00	60.11	0.00	2.51	0.00	0.00	0.00	113	0	4	0	0	0	10,278	311	0	0	0	0	0	9,967
897+82.15	89945.84	32.15	59.77	0.00	3.85	0.00	0.00	0.00	71	0	4	0	0	0	10,349	316	0	0	0	0	0	10,033
898+00	89963.69	17.85	59.46	0.00	4.60	0.00	0.00	0.00	39	0	3	0	0	0	10,389	320	0	0	0	0	0	10,069
898+50	90013.69	50.00	59.49	0.00	7.17	0.00	0.00	0.00	110	0	11	0	0	0	10,499	333	0	0	0	0	0	10,166
899+00	90063.69	50.00	53.04	0.00	11.34	0.00	0.00	0.00	104	0	17	0	0	0	10,603	355	0	0	0	0	0	10,249
899+24.09	90087.78	24.09	47.74	0.00	12.82	0.00	0.00	0.00	45	0	11	0	0	0	10,648	368	0	0	0	0	0	10,280
899+50	90113.69	25.91	43.34	0.00	10.25	0.00	0.00	0.00	44	0	11	0	0	0	10,692	382	0	0	0	0	0	10,310
899+64.95	90128.64	14.95	41.60	0.00	8.91	0.00	0.00	0.00	24	0	5	0	0	0	10,715	389	0	0	0	0	0	10,327
899+71.75	90135.44	6.80	40.18	0.00	8.35	0.00	0.00	0.00	10	0	2	0	0	0	10,726	391	0	0	0	0	0	10,334
899+73.05	90136.74	1.30	40.23	0.00	8.39	0.00	0.00	0.00	2	0	0	0	0	0	10,728	392	0	0	0	0	0	10,336
						SUBTOTAL			10,728	0	313	0	0	0								

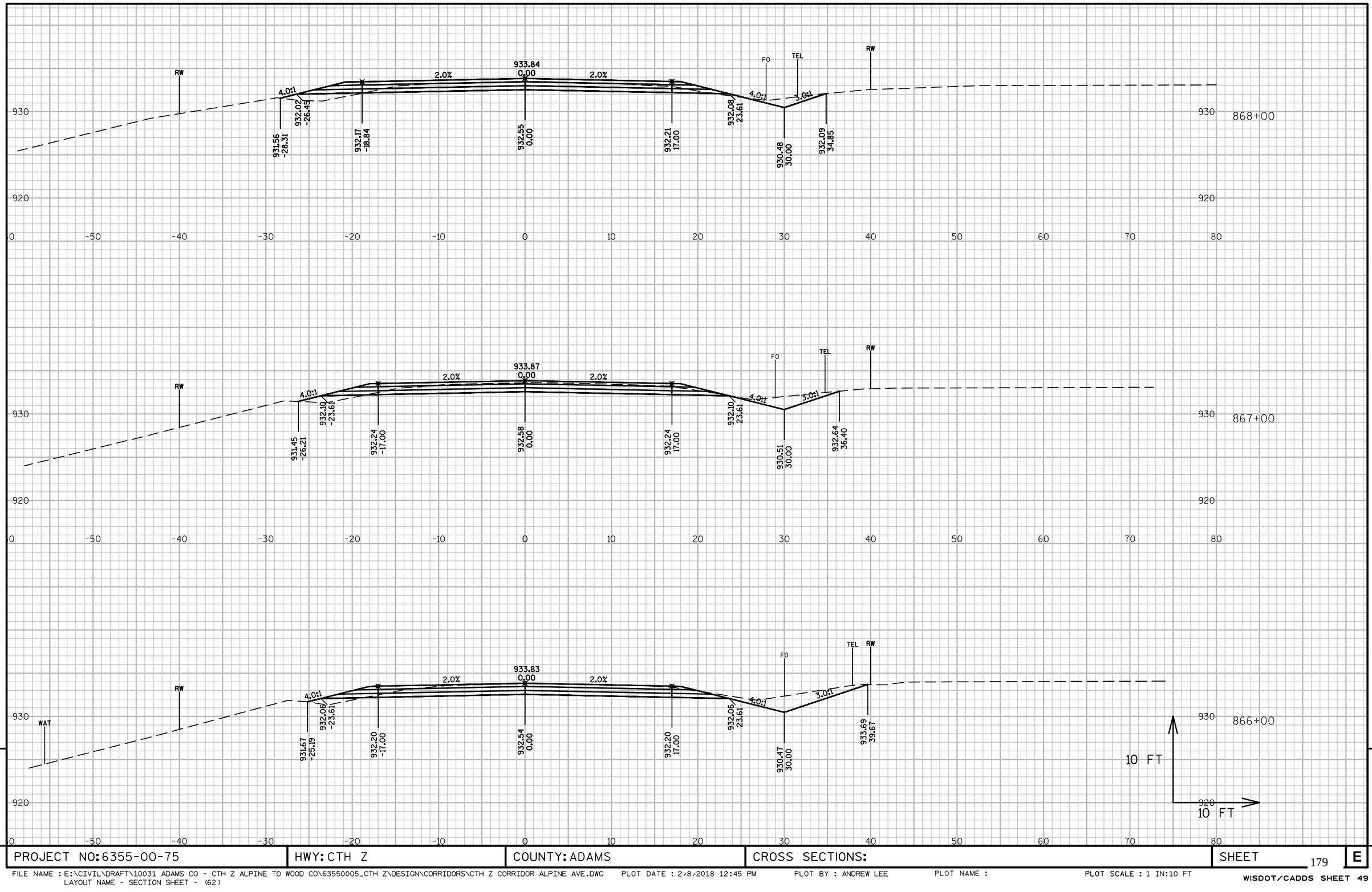
			AREA (SF)						Incremental Vol (CY) (Unadjusted)						Cumulative Vol (CY)							
				Salvaged/Unusable						Salvaged/Unusable						Expanded	Expanded	Expanded	Expanded	Reduced Marsh	Reduced EBS	
STATION	Real Station	Distance	Cut	Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Fill	Marsh Backfill	Rock	EBS Backfill	in Fill	in Fill	Mass Ordinate
															1.00	1.25	1.50	1.10	1.30	0.60	0.80	
									Note 1	Note 2	Note 3				Note 1		Note 4		Note 5	Note 6	Note 7	Note 8
900+00	90163.69	26.95	38.05	0.00	9.08	0.00	0.00	0.00	39	0	9	0	0	0	10,767	403	0	0	0	0	0	10,364
900+16.02	90016.02	16.02	31.09	0.00	17.90	0.00	0.00	0.00	21	0	8	0	0	0	10,787	413	0	0	0	0	0	10,375
900+26.33	90026.33	10.31	31.30	0.00	17.34	0.00	0.00	0.00	12	0	7	0	0	0	10,799	421	0	0	0	0	0	10,378
900+67.09	90067.09	40.76	34.93	0.00	9.00	0.00	0.00	0.00	50	0	20	0	0	0	10,849	446	0	0	0	0	0	10,403
900+77.27	90077.27	10.18	38.13	0.00	6.89	0.00	0.00	0.00	14	0	3	0	0	0	10,863	450	0	0	0	0	0	10,413
901+00	90100.00	22.73	31.74	0.00	8.50	0.00	0.00	0.00	29	0	6	0	0	0	10,892	458	0	0	0	0	0	10,435
901+18.16	90118.16	18.16	31.02	0.00	6.41	0.00	0.00	0.00	21	0	5	0	0	0	10,913	464	0	0	0	0	0	10,449
901+28.22	90128.22	10.05	34.41	0.00	5.12	0.00	0.00	0.00	12	0	2	0	0	0	10,926	467	0	0	0	0	0	10,459
901+67.28	90167.28	39.06	39.12	0.00	1.33	0.00	0.00	0.00	53	0	5	0	0	0	10,979	473	0	0	0	0	0	10,506
902+00	90200.00	32.72	46.11	0.00	2.11	0.00	0.00	0.00	52	0	2	0	0	0	11,030	475	0	0	0	0	0	10,555
902+04.63	90204.63	4.63	46.08	0.00	2.50	0.00	0.00	0.00	8	0	0	0	0	0	11,038	476	0	0	0	0	0	10,563
902+12.27	90212.27	7.64	46.16	0.00	3.07	0.00	0.00	0.00	13	0	1	0	0	0	11,051	477	0	0	0	0	0	10,575
902+50	90250.00	37.73	42.99	0.00	7.10	0.00	0.00	0.00	62	0	7	0	0	0	11,114	486	0	0	0	0	0	10,628
903+00	90300.00	50.00	36.81	0.00	33.93	0.00	0.00	0.00	74	0	38	0	0	0	11,188	533	0	0	0	0	0	10,655
903+15	90315.00	15.00	35.13	0.00	46.48	0.00	0.00	0.00	20	0	22	0	0	0	11,208	561	0	0	0	0	0	10,647
903+50	90350.00	35.00	59.32	0.00	19.11	0.00	0.00	0.00	61	0	43	0	0	0	11,269	614	0	0	0	0	0	10,655
904+00	90400.00	50.00	75.25	0.00	1.19	0.00	0.00	0.00	125	0	19	0	0	0	11,393	638	0	0	0	0	0	10,756
904+50	90450.00	50.00	75.06	0.00	1.37	0.00	0.00	0.00	139	0	2	0	0	0	11,533	641	0	0	0	0	0	10,892
905+00	90500.00	50.00	79.58	0.00	2.68	0.00	0.00	0.00	143	0	4	0	0	0	11,676	645	0	0	0	0	0	11,031
905+50	90550.00	50.00	67.48	0.00	4.16	0.00	0.00	0.00	136	0	6	0	0	0	11,812	653	0	0	0	0	0	11,159
906+00	90600.00	50.00	52.82	0.00	5.80	0.00	0.00	0.00	111	0	9	0	0	0	11,923	665	0	0	0	0	0	11,259
906+50	90650.00	50.00	41.75	0.00	8.46	0.00	0.00	0.00	88	0	13	0	0	0	12,011	681	0	0	0	0	0	11,330
907+00	90700.00	50.00	27.15	0.00	13.91	0.00	0.00	0.00	64	0	21	0	0	0	12,075	707	0	0	0	0	0	11,368
907+32.35	90732.35	32.35	22.54	0.00	17.21	0.00	0.00	0.00	30	0	19	0	0	0	12,104	730	0	0	0	0	0	11,374
907+50	90750.00	17.65	20.85	0.00	17.30	0.00	0.00	0.00	14	0	11	0	0	0	12,119	744	0	0	0	0	0	11,374
908+00	90800.00	50.00	14.94	0.00	16.69	0.00	0.00	0.00	33	0	31	0	0	0	12,152	784	0	0	0	0	0	11,368
908+50	90850.00	50.00	12.01	0.00	16.76	0.00	0.00	0.00	25	0	31	0	0	0	12,177	823	0	0	0	0	0	11,354
909+00	90900.00	50.00	9.09	0.00	15.23	0.00	0.00	0.00	20	0	30	0	0	0	12,196	860	0	0	0	0	0	11,337
909+50	90950.00	50.00	9.01	0.00	14.29	0.00	0.00	0.00	17	0	27	0	0	0	12,213	894	0	0	0	0	0	11,319
910+00	91000.00	50.00	8.25	0.00	15.78	0.00	0.00	0.00	16	0	28	0	0	0	12,229	929	0	0	0	0	0	11,300
910+50	91050.00	50.00	10.05	0.00	16.16	0.00	0.00	0.00	17	0	30	0	0	0	12,246	965	0	0	0	0	0	11,280
911+00	91100.00	50.00	10.67	0.00	17.25	0.00	0.00	0.00	19	0	31	0	0	0	12,265	1,004	0	0	0	0	0	11,261
911+50	91150.00	50.00	11.18	0.00	17.63	0.00	0.00	0.00	20	0	32	0	0	0	12,285	1,045	0	0	0	0	0	11,241
912+00	91200.00	50.00	10.20	0.00	20.73	0.00	0.00	0.00	20	0	36	0	0	0	12,305	1,089	0	0	0	0	0	11,216
912+50	91250.00	50.00	8.54	0.00	24.38	0.00	0.00	0.00	17	0	42	0	0	0	12,322	1,141	0	0	0	0	0	11,181
912+52.43	91252.43	2.43	8.43	0.00	24.51	0.00	0.00	0.00	1	0	2	0	0	0	12,323	1,144	0	0	0	0	0	11,179
912+60.07	91260.07	7.64	7.48	0.00	24.26	0.00	0.00	0.00	2	0	7	0	0	0	12,326	1,153	0	0	0	0	0	11,173
912+97.43	91297.43	37.35	3.52	0.00	25.69	0.00	0.00	0.00	8	0	35	0	0	0	12,333	1,196	0	0	0	0	0	11,137
913+00	91300.00	2.57	3.30	0.00	25.99	0.00	0.00	0.00	0	0	2	0	0	0	12,333	1,199	0	0	0	0	0	11,135
913+36.49	91336.49	36.49	2.59	0.00	28.63	0.00	0.00	0.00	4	0	37	0	0	0	12,337	1,245	0	0	0	0	0	11,092
913+87.43	91387.43	50.94	6.40	0.00	26.82	0.00	0.00	0.00	8	0	52	0	0	0	12,346	1,310	0	0	0	0	0	11,036
914+00	91400.00	12.57	7.59	0.00	26.29	0.00	0.00	0.00	3	0	12	0	0	0	12,349	1,326	0	0	0	0	0	11,023
914+38.38	91438.38	38.38	10.46	0.00	21.05	0.00	0.00	0.00	13	0	34	0	0	0	12,362	1,368	0	0	0	0	0	10,994
915+00	91500.00	61.62	11.83	0.00	18.24	0.00	0.00	0.00	25	0	45	0	0	0	12,387	1,424	0	0	0	0	0	10,964
915+63.07	91563.07	63.07	17.11	0.00	8.03	0.00	0.00	0.00	34	0	31	0	0	0	12,421	1,462	0	0	0	0	0	10,959
916+00	91600.00	36.93	26.21	0.00	4.98	0.00	0.00	0.00	30	0	9	0	0	0	12,451	1,473	0	0	0	0	0	10,977
916+13.88	91613.88	13.88	29.10	0.00	3.38	0.00	0.00	0.00	14	0	2	0	0	0	12,465	1,476	0	0	0	0	0	10,989
916+64.7	91664.70	50.81	41.13	0.00	7.04	0.00	0.00	0.00	66	0	10	0	0	0	12,531	1,488	0	0	0	0	0	11,043
916+76.55	91676.55	11.86	46.69	0.00	6.47	0.00	0.00	0.00	19	0	3	0	0	0	12,550	1,492	0	0	0	0	0	11,058
917+00	91700.00	23.45	57.88	0.00	9.45	0.00	0.00	0.00	45	0	7	0	0	0	12,596	1,501	0	0	0	0	0	11,095
917+07.88	91707.88	7.88	59.99	0.00	10.63	0.00	0.00	0.00	17	0	3	0	0	0	12,613	1,504	0	0	0	0	0	11,109
917+50	91750.00	42.12	72.82	0.00	9.85	0.00	0.00	0.00	104	0	16	0	0	0	12,717	1,524	0	0	0	0	0	11,192
918+00	91800.00	50.00	96.01	0.00	11.87	0.00	0.00	0.00	156	0	20	0	0	0	12,873	1,549	0	0	0	0	0	11,324
918+28	91828.00	28.00	105.29	0.00	10.82	0.00	0.00	0.00	104	0	12	0	0	0	12,977	1,564	0	0	0	0	0	11,413
918+48.48	91848.48	20.48	100.32	0.00	9.48	0.00	0.00	0.00	78	0	8	0	0	0	13,055	1,574	0	0	0	0	0	11,482
918+50	91850.00	1.52	100.54	0.00	9.36	0.00	0.00	0.00	6	0	1	0	0	0	13,061	1,574	0	0	0	0	0	11,487
919+00	91900.00	50.00	108.73	0.00	4.94	0.00	0.00	0.00	194	0	13	0	0	0	13,255	1,591	0	0	0	0	0	11,664
919+50	91950.00	50.00	129.59	0.00	0.92	0.00	0.00	0.00	221	0	5	0	0	0	13,475	1,598	0	0	0	0	0	11,878
919+89.08	91989.08	39.08	151.63	0.00	0.21	0.00	0.00	0.00	204	0	1	0	0	0	13,679	1,599	0	0	0	0	0	12,080
920+00	92000.00	10.92	156.23	0.00	0.08	0.00	0.00	0.00	62	0	0	0	0	0	13,741	1,599	0	0	0	0	0	12,142
920+20.41	92020.41	20.41	143.86	0.00	0.68	0.00	0.00	0.00	113	0	0	0	0	0	13,855	1,599	0	0	0	0	0	12,255
920+32.27	92032.27	11.86	134.17	0.00	2.20	0.00	0.00	0.00	61	0	1	0	0	0	13,916	1,600	0	0	0	0	0	12,316
920+83.08	92083.08	50.81	161.82	0.00	3.62	0.00	0.00	0.00	279	0	5	0	0	0	14,194	1,607	0	0	0	0	0	12,587
920+91	92091.00	7.92	169.21	0.00	2.19	0.00	0.00	0.00	49	0	1	0	0	0	14,243	1,608	0	0	0	0	0	12,635
921+00	92100.00	9.00	179.09	0.00	1.37	0.00	0.00	0.00	58	0	1	0	0	0	14,301	1,609	0	0	0	0	0	12,692
921+33.89	92133.89	33.89	89.30	0.00	18.50	0.00	0.00	0.00	168	0	12	0	0	0	14,469	1,624	0	0	0	0	0	12,845
921+50	92150.00	16.11	85.76	0.00	17.83	0.00	0.00	0.00	52	0	11	0	0	0	14,521	1,638	0	0	0	0	0	12,884
921+75	92175.00	25.00	79.50	0.00	18.12	0.00	0.00	0.00	77	0	17	0	0	0	14,598	1,659	0	0	0	0	0	12,939
922+00	92200.00	25.00	72.11	0.00	6.06	0.00	0.00	0.00	70	0	11	0	0	0	14,668	1,673	0	0	0	0	0	12,996
922+78	92278.00	78.00	63.80	0.00	12.36	0.00	0.00	0.00	196	0	27	0	0	0	14,864	1,706	0	0	0	0	0	13,159
						SUBTOTAL			4,137	0	1,051	0	0	0								

			AREA (SF)						Incremental Vol (CY) (Unadjusted)						Cumulative Vol (CY)							
STATION	Real Station	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Expanded Rock	Expanded EBS Backfill	Reduced Marsh in Fill	Reduced EBS in Fill	Mass Ordinate
															1.00	1.25	1.50	1.10	1.30	0.60	0.80	
									Note 1	Note 2	Note 3				Note 1		Note 4		Note 5	Note 6	Note 7	Note 8
923+00	92300.00	22.00	59.49	0.00	25.18	0.00	0.00	0.00	50	0	15	0	0	0	14,915	1,725	0	0	0	0	0	13,190
923+42	92342.00	42.00	60.39	0.00	34.12	0.00	0.00	0.00	93	0	46	0	0	0	15,008	1,783	0	0	0	0	0	13,225
924+00	92400.00	58.00	70.01	0.00	4.31	0.00	0.00	0.00	140	0	41	0	0	0	15,148	1,834	0	0	0	0	0	13,314
924+50	92450.00	50.00	50.22	0.00	12.73	0.00	0.00	0.00	111	0	16	0	0	0	15,259	1,854	0	0	0	0	0	13,405
924+75	92475.00	25.00	40.95	0.00	36.61	0.00	0.00	0.00	42	0	23	0	0	0	15,302	1,882	0	0	0	0	0	13,419
925+00	92500.00	25.00	35.11	0.00	71.13	0.00	0.00	0.00	35	0	50	0	0	0	15,337	1,945	0	0	0	0	0	13,392
926+00	92600.00	100.00	31.63	0.00	20.49	0.00	0.00	0.00	124	0	170	0	0	0	15,460	2,157	0	0	0	0	0	13,303
927+00	92700.00	100.00	86.36	0.00	0.35	0.00	0.00	0.00	218	0	39	0	0	0	15,679	2,205	0	0	0	0	0	13,474
928+00	92800.00	100.00	108.15	0.00	0.68	0.00	0.00	0.00	360	0	2	0	0	0	16,039	2,208	0	0	0	0	0	13,831
929+00	92900.00	100.00	110.40	0.00	0.30	0.00	0.00	0.00	405	0	2	0	0	0	16,444	2,210	0	0	0	0	0	14,234
929+00.8	92900.80	0.80	105.51	0.00	0.31	0.00	0.00	0.00	3	0	0	0	0	0	16,447	2,210	0	0	0	0	0	14,237
929+08	92908.00	7.20	100.41	0.00	0.40	0.00	0.00	0.00	27	0	0	0	0	0	16,474	2,210	0	0	0	0	0	14,264
929+50	92950.00	42.00	81.24	0.00	1.26	0.00	0.00	0.00	141	0	1	0	0	0	16,616	2,212	0	0	0	0	0	14,404
930+00	93000.00	50.00	90.33	0.00	0.59	0.00	0.00	0.00	159	0	2	0	0	0	16,775	2,214	0	0	0	0	0	14,561
930+50	93050.00	50.00	81.75	0.00	0.96	0.00	0.00	0.00	159	0	1	0	0	0	16,934	2,216	0	0	0	0	0	14,718
930+95.73	93095.73	45.73	72.59	0.00	1.92	0.00	0.00	0.00	131	0	2	0	0	0	17,065	2,219	0	0	0	0	0	14,846
931+00	93100.00	4.27	74.10	0.00	1.27	0.00	0.00	0.00	12	0	0	0	0	0	17,076	2,219	0	0	0	0	0	14,857
931+50	93150.00	50.00	75.94	0.00	0.00	0.00	0.00	0.00	139	0	1	0	0	0	17,215	2,220	0	0	0	0	0	14,995
932+00	93200.00	50.00	71.35	0.00	2.49	0.00	0.00	0.00	136	0	2	0	0	0	17,351	2,223	0	0	0	0	0	15,128
932+50	93250.00	50.00	58.04	0.00	6.25	0.00	0.00	0.00	120	0	8	0	0	0	17,471	2,233	0	0	0	0	0	15,238
932+90.66	93290.66	40.66	54.22	0.00	6.71	0.00	0.00	0.00	85	0	10	0	0	0	17,556	2,246	0	0	0	0	0	15,310
933+00	93300.00	9.34	53.20	0.00	6.89	0.00	0.00	0.00	19	0	2	0	0	0	17,574	2,249	0	0	0	0	0	15,326
933+26	93326.00	26.00	67.70	0.00	5.40	0.00	0.00	0.00	58	0	6	0	0	0	17,633	2,256	0	0	0	0	0	15,377
934+00	93400.00	74.00	45.66	0.00	6.40	0.00	0.00	0.00	155	0	16	0	0	0	17,788	2,276	0	0	0	0	0	15,512
935+00	93500.00	100.00	49.91	0.00	6.35	0.00	0.00	0.00	177	0	24	0	0	0	17,965	2,306	0	0	0	0	0	15,659
935+62.45	93562.45	62.45	57.98	0.00	6.60	0.00	0.00	0.00	125	0	15	0	0	0	18,090	2,324	0	0	0	0	0	15,765
936+00	93600.00	37.55	69.13	0.00	4.78	0.00	0.00	0.00	88	0	8	0	0	0	18,178	2,334	0	0	0	0	0	15,844
936+13.48	93613.48	13.48	61.75	0.00	6.36	0.00	0.00	0.00	33	0	3	0	0	0	18,211	2,338	0	0	0	0	0	15,873
936+64.52	93664.52	51.03	41.36	0.00	13.85	0.00	0.00	0.00	97	0	19	0	0	0	18,308	2,362	0	0	0	0	0	15,947
937+00	93700.00	35.48	38.73	0.00	18.79	0.00	0.00	0.00	53	0	21	0	0	0	18,361	2,388	0	0	0	0	0	15,972
937+12.15	93712.15	12.15	40.16	0.00	19.38	0.00	0.00	0.00	18	0	9	0	0	0	18,379	2,399	0	0	0	0	0	15,979
937+41.07	93741.07	28.91	43.80	0.00	21.16	0.00	0.00	0.00	45	0	22	0	0	0	18,424	2,426	0	0	0	0	0	15,997
937+50	93750.00	8.93	44.87	0.00	21.91	0.00	0.00	0.00	15	0	7	0	0	0	18,438	2,435	0	0	0	0	0	16,003
937+61.48	93761.48	11.48	46.10	0.00	23.18	0.00	0.00	0.00	19	0	10	0	0	0	18,458	2,447	0	0	0	0	0	16,010
938+00	93800.00	38.52	42.13	0.00	25.29	0.00	0.00	0.00	63	0	35	0	0	0	18,521	2,490	0	0	0	0	0	16,030
938+50	93850.00	50.00	45.02	0.00	19.88	0.00	0.00	0.00	81	0	42	0	0	0	18,601	2,543	0	0	0	0	0	16,059
939+00	93900.00	50.00	47.63	0.00	13.21	0.00	0.00	0.00	86	0	31	0	0	0	18,687	2,581	0	0	0	0	0	16,106
939+41.08	93941.08	41.08	152.28	0.00	2.88	0.00	0.00	0.00	152	0	12	0	0	0	18,839	2,596	0	0	0	0	0	16,243
939+50	93950.00	8.92	163.23	0.00	1.22	0.00	0.00	0.00	52	0	1	0	0	0	18,891	2,597	0	0	0	0	0	16,294
939+69.04	93969.04	19.04	224.85	0.00	5.51	0.00	0.00	0.00	137	0	2	0	0	0	19,028	2,600	0	0	0	0	0	16,428
940+00	94000.00	30.96	116.71	0.00	15.00	0.00	0.00	0.00	196	0	12	0	0	0	19,224	2,615	0	0	0	0	0	16,609
940+50	94050.00	50.00	106.03	0.00	3.02	0.00	0.00	0.00	206	0	17	0	0	0	19,430	2,636	0	0	0	0	0	16,794
941+00	94100.00	50.00	72.05	0.00	12.57	0.00	0.00	0.00	165	0	14	0	0	0	19,595	2,654	0	0	0	0	0	16,941
941+13	94113.00	13.00	76.91	0.00	15.07	0.00	0.00	0.00	36	0	7	0	0	0	19,631	2,662	0	0	0	0	0	16,969
941+50	94150.00	37.00	96.10	0.00	16.67	0.00	0.00	0.00	119	0	22	0	0	0	19,749	2,689	0	0	0	0	0	17,060
941+76.6	94176.60	26.60	110.93	0.00	14.28	0.00	0.00	0.00	102	0	15	0	0	0	19,851	2,708	0	0	0	0	0	17,143
941+97.01	94197.01	20.41	113.98	0.00	10.82	0.00	0.00	0.00	85	0	9	0	0	0	19,936	2,720	0	0	0	0	0	17,216
942+00	94200.00	2.99	112.63	0.00	10.36	0.00	0.00	0.00	13	0	1	0	0	0	19,949	2,722	0	0	0	0	0	17,227
942+25.93	94225.93	25.93	102.47	0.00	6.89	0.00	0.00	0.00	103	0	8	0	0	0	20,052	2,732	0	0	0	0	0	17,320
942+73.57	94273.57	47.64	85.88	0.00	3.54	0.00	0.00	0.00	166	0	9	0	0	0	20,218	2,743	0	0	0	0	0	17,475
943+00	94300.00	26.43	91.70	0.00	1.48	0.00	0.00	0.00	87	0	2	0	0	0	20,305	2,746	0	0	0	0	0	17,559
943+24.6	94324.60	24.60	115.43	0.00	0.50	0.00	0.00	0.00	94	0	1	0	0	0	20,400	2,748	0	0	0	0	0	17,652
943+36	94336.00	11.40	137.71	0.00	0.00	0.00	0.00	0.00	53	0	0	0	0	0	20,453	2,748	0	0	0	0	0	17,705
943+75.63	94375.63	39.63	94.90	0.00	0.47	0.00	0.00	0.00	171	0	0	0	0	0	20,624	2,748	0	0	0	0	0	17,876
944+00	94400.00	24.37	98.71	0.00	0.28	0.00	0.00	0.00	87	0	0	0	0	0	20,711	2,749	0	0	0	0	0	17,963
944+28.97	94592.66	28.97	107.06	0.00	0.48	0.00	0.00	0.00	110	0	0	0	0	0	20,822	2,749	0	0	0	0	0	18,072
945+00	94663.69	71.03	139.20	0.00	0.20	0.00	0.00	0.00	324	0	1	0	0	0	21,145	2,750	0	0	0	0	0	18,395
946+00	94763.69	100.00	123.27	0.00	0.00	0.00	0.00	0.00	486	0	0	0	0	0	21,632	2,751	0	0	0	0	0	18,881
947+00	94863.69	100.00	83.81	0.00	9.71	0.00	0.00	0.00	383	0	18	0	0	0	22,015	2,773	0	0	0	0	0	19,242
948+00	94963.69	100.00	95.94	0.00	1.75	0.00	0.00	0.00	333	0	21	0	0	0	22,348	2,800	0	0	0	0	0	19,548
948+57.73	95021.42	57.73	97.76	0.00	2.25	0.00	0.00	0.00	207	0	4	0	0	0	22,555	2,805	0	0	0	0	0	19,750
949+00	95063.69	42.27	90.21	0.00	2.53	0.00	0.00	0.00	147	0	4	0	0	0	22,702	2,810	0	0	0	0	0	19,892
949+08.92	95072.61	8.92	87.35	0.00	2.59	0.00	0.00	0.00	29	0	1	0	0	0	22,731	2,811	0	0	0	0	0	19,921
949+60.1	95123.79	51.19	64.66	0.00	6.18	0.00	0.00	0.00	144	0	8	0	0	0	22,876	2,821	0	0	0	0	0	20,054
950+00	95163.69	39.90	65.75	0.00	6.48	0.00	0.00	0.00	96	0	9	0	0	0	22,972	2,833	0	0	0	0	0	20,139
950+11.29	95174.98	11.29	69.16	0.00	6.00	0.00	0.00	0.00	28	0	3	0	0	0	23,000	2,836	0	0	0	0	0	20,164
950+60.78	95224.47	49.49	95.13	0.00	4.67	0.00	0.00	0.00	151	0	10	0	0	0	23,151	2,848	0	0	0	0	0	20,302
950+62.48	95226.17	1.70	96.20	0.00	4.64	0.00	0.00	0.00	6	0	0	0	0	0	23,157	2,849	0	0	0	0	0	20,308
951+00	95263.69	37.52	112.79	0.00	5.29	0.00	0.00	0.00	145	0	7	0	0	0	23,302	2,857	0	0	0	0	0	20,445
951+11.1	95274.79	11.10	116.76	0.00	5.61	0.00	0.00	0.00	47	0	2	0	0	0	23,349	2,860	0	0	0	0	0	20,489
951+50	95313.69	38.90	127.30	0.00	4.11	0.00	0.00	0.00	176	0	7	0	0	0	23,525	2,869	0	0	0	0	0	20,656
952+00	95363.69	50.00	134.19	0.00	4.19	0.00	0.00	0.00	242	0	8	0	0	0	23,767	2,879	0	0	0	0	0	20,888
						SUBTOTAL			8,903	0	938	0	0	0								

			AREA (SF)						Incremental Vol (CY) (Unadjusted)						Cumulative Vol (CY)							
STATION	Real Station	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Expanded Rock	Expanded EBS Backfill	Reduced Marsh in Fill	Reduced EBS in Fill	Mass Ordinate
									Note 1	Note 2	Note 3				1.00 Note 1	1.25	Note 4	1.10	1.30 Note 5	0.60 Note 6	0.80 Note 7	Note 8
952+50	95413.69	50.00	133.12	0.00	2.68	0.00	0.00	0.00	248	0	6	0	0	0	24,014	2,886	0	0	0	0	0	21,128
953+00	95463.69	50.00	144.62	0.00	0.00	0.00	0.00	0.00	257	0	2	0	0	0	24,272	2,890	0	0	0	0	0	21,382
953+32.51	95496.20	32.51	170.40	0.00	0.00	0.00	0.00	0.00	190	0	0	0	0	0	24,461	2,890	0	0	0	0	0	21,572
953+50	95513.69	17.49	169.08	0.00	0.00	0.00	0.00	0.00	110	0	0	0	0	0	24,571	2,890	0	0	0	0	0	21,682
953+73	95536.69	23.00	155.79	0.00	0.00	0.00	0.00	0.00	138	0	0	0	0	0	24,710	2,890	0	0	0	0	0	21,820
954+00	95563.69	27.00	143.75	0.00	0.00	0.00	0.00	0.00	150	0	0	0	0	0	24,859	2,890	0	0	0	0	0	21,970
954+50	95613.69	50.00	137.05	0.00	0.00	0.00	0.00	0.00	260	0	0	0	0	0	25,119	2,890	0	0	0	0	0	22,230
955+00	95663.69	50.00	111.17	0.00	0.00	0.00	0.00	0.00	230	0	0	0	0	0	25,349	2,890	0	0	0	0	0	22,460
955+50	95713.69	50.00	100.35	0.00	0.44	0.00	0.00	0.00	196	0	0	0	0	0	25,545	2,890	0	0	0	0	0	22,655
955+53.92	95717.61	3.92	99.11	0.00	0.52	0.00	0.00	0.00	14	0	0	0	0	0	25,560	2,890	0	0	0	0	0	22,669
956+00	95763.69	46.08	100.99	0.00	0.00	0.00	0.00	0.00	171	0	0	0	0	0	25,730	2,891	0	0	0	0	0	22,840
956+02.55	95766.24	2.55	100.91	0.00	0.00	0.00	0.00	0.00	10	0	0	0	0	0	25,740	2,891	0	0	0	0	0	22,849
956+04.25	95767.94	1.70	101.06	0.00	0.00	0.00	0.00	0.00	6	0	0	0	0	0	25,746	2,891	0	0	0	0	0	22,855
956+53.74	95817.43	49.49	97.38	0.00	1.18	0.00	0.00	0.00	182	0	1	0	0	0	25,928	2,892	0	0	0	0	0	23,036
956+58.3	95821.99	4.56	98.85	0.00	1.42	0.00	0.00	0.00	17	0	0	0	0	0	25,945	2,892	0	0	0	0	0	23,052
957+00	95863.69	41.70	110.05	0.00	0.12	0.00	0.00	0.00	161	0	1	0	0	0	26,106	2,894	0	0	0	0	0	23,212
957+04.92	95868.61	4.92	111.76	0.00	0.06	0.00	0.00	0.00	20	0	0	0	0	0	26,126	2,894	0	0	0	0	0	23,232
957+08.3	95871.99	3.38	112.54	0.00	0.02	0.00	0.00	0.00	14	0	0	0	0	0	26,140	2,894	0	0	0	0	0	23,246
957+58.3	95921.99	50.00	124.87	0.00	0.00	0.00	0.00	0.00	220	0	0	0	0	0	26,360	2,894	0	0	0	0	0	23,466
958+00	95963.69	41.70	128.41	0.00	0.37	0.00	0.00	0.00	196	0	0	0	0	0	26,556	2,894	0	0	0	0	0	23,661
958+01.64	95965.33	1.64	128.39	0.00	0.41	0.00	0.00	0.00	8	0	0	0	0	0	26,563	2,894	0	0	0	0	0	23,669
958+07.3	95970.99	5.66	128.16	0.00	0.55	0.00	0.00	0.00	27	0	0	0	0	0	26,590	2,894	0	0	0	0	0	23,696
958+08.3	95971.99	1.01	128.17	0.00	0.57	0.00	0.00	0.00	5	0	0	0	0	0	26,595	2,894	0	0	0	0	0	23,701
958+23.3	95986.99	15.00	131.12	0.00	1.10	0.00	0.00	0.00	72	0	0	0	0	0	26,667	2,895	0	0	0	0	0	23,772
958+50	96013.69	26.70	135.02	0.00	1.14	0.00	0.00	0.00	132	0	1	0	0	0	26,799	2,896	0	0	0	0	0	23,902
959+00	96063.69	50.00	126.15	0.00	1.11	0.00	0.00	0.00	242	0	2	0	0	0	27,040	2,899	0	0	0	0	0	24,141
959+50	96113.69	50.00	113.74	0.00	1.03	0.00	0.00	0.00	222	0	2	0	0	0	27,263	2,901	0	0	0	0	0	24,361
960+00	96163.69	50.00	98.66	0.00	1.17	0.00	0.00	0.00	197	0	2	0	0	0	27,459	2,904	0	0	0	0	0	24,555
960+50	96213.69	50.00	83.85	0.00	1.82	0.00	0.00	0.00	169	0	3	0	0	0	27,628	2,907	0	0	0	0	0	24,721
960+61.52	96225.21	11.52	80.34	0.00	2.25	0.00	0.00	0.00	35	0	1	0	0	0	27,663	2,909	0	0	0	0	0	24,755
961+00	96263.69	38.48	64.92	0.00	1.35	0.00	0.00	0.00	104	0	3	0	0	0	27,767	2,912	0	0	0	0	0	24,855
961+50.93	96314.62	50.93	126.11	0.00	1.64	0.00	0.00	0.00	180	0	3	0	0	0	27,947	2,915	0	0	0	0	0	25,032
962+00	96363.69	49.07	62.16	0.00	0.80	0.00	0.00	0.00	171	0	2	0	0	0	28,118	2,918	0	0	0	0	0	25,200
962+50	96413.69	50.00	68.40	0.00	6.27	0.00	0.00	0.00	121	0	7	0	0	0	28,239	2,926	0	0	0	0	0	25,313
963+00	96463.69	50.00	73.91	0.00	7.97	0.00	0.00	0.00	132	0	13	0	0	0	28,371	2,943	0	0	0	0	0	25,428
963+09	96472.69	9.00	75.94	0.00	7.63	0.00	0.00	0.00	25	0	3	0	0	0	28,396	2,946	0	0	0	0	0	25,450
963+14.74	96478.43	5.74	75.67	0.00	7.48	0.00	0.00	0.00	16	0	2	0	0	0	28,412	2,948	0	0	0	0	0	25,464
963+21.4	96485.09	6.66	77.99	0.00	7.27	0.00	0.00	0.00	19	0	2	0	0	0	28,431	2,950	0	0	0	0	0	25,480
963+64.74	96528.43	43.34	75.49	0.00	5.21	0.00	0.00	0.00	123	0	10	0	0	0	28,554	2,963	0	0	0	0	0	25,591
964+14.74	96578.43	50.00	84.08	0.00	1.73	0.00	0.00	0.00	148	0	6	0	0	0	28,702	2,971	0	0	0	0	0	25,731
964+64.74	96628.43	50.00	89.51	0.00	1.06	0.00	0.00	0.00	161	0	3	0	0	0	28,862	2,974	0	0	0	0	0	25,888
965+00	96663.69	35.26	96.51	0.00	0.67	0.00	0.00	0.00	121	0	1	0	0	0	28,984	2,975	0	0	0	0	0	26,008
966+00	96763.69	100.00	123.25	0.00	0.08	0.00	0.00	0.00	407	0	1	0	0	0	29,391	2,977	0	0	0	0	0	26,414
966+17	96780.69	17.00	130.80	0.00	0.00	0.00	0.00	0.00	80	0	0	0	0	0	29,471	2,977	0	0	0	0	0	26,494
966+19.49	96783.18	2.49	130.69	0.00	0.00	0.00	0.00	0.00	12	0	0	0	0	0	29,483	2,977	0	0	0	0	0	26,506
966+55.82	96819.51	36.33	118.32	0.00	0.00	0.00	0.00	0.00	168	0	0	0	0	0	29,650	2,977	0	0	0	0	0	26,673
966+92.15	96855.84	36.33	118.91	0.00	1.18	0.00	0.00	0.00	160	0	1	0	0	0	29,810	2,978	0	0	0	0	0	26,832
967+00	96863.69	7.85	120.58	0.00	1.21	0.00	0.00	0.00	35	0	0	0	0	0	29,845	2,979	0	0	0	0	0	26,866
967+28.49	96892.18	28.49	127.49	0.00	1.41	0.00	0.00	0.00	131	0	1	0	0	0	29,976	2,980	0	0	0	0	0	26,995
967+64.82	96928.51	36.33	153.59	0.00	1.54	0.00	0.00	0.00	189	0	2	0	0	0	30,165	2,983	0	0	0	0	0	27,182
967+64.82	96928.51	0.00	153.59	0.00	1.54	0.00	0.00	0.00	0	0	0	0	0	0	30,165	2,983	0	0	0	0	0	27,182
968+00	96963.69	35.18	201.34	0.00	0.00	0.00	0.00	0.00	231	0	1	0	0	0	30,396	2,984	0	0	0	0	0	27,412
968+01.15	96964.84	1.15	202.49	0.00	0.00	0.00	0.00	0.00	9	0	0	0	0	0	30,405	2,984	0	0	0	0	0	27,421
968+50	97013.69	48.85	247.86	0.00	0.00	0.00	0.00	0.00	407	0	0	0	0	0	30,812	2,984	0	0	0	0	0	27,828
968+96.7	97060.39	46.70	200.14	0.00	0.00	0.00	0.00	0.00	387	0	0	0	0	0	31,199	2,984	0	0	0	0	0	28,215
969+00	97063.69	3.30	192.98	0.00	0.00	0.00	0.00	0.00	24	0	0	0	0	0	31,223	2,984	0	0	0	0	0	28,239
969+17	97080.69	17.00	102.79	0.00	0.15	0.00	0.00	0.00	93	0	0	0	0	0	31,317	2,984	0	0	0	0	0	28,332
969+23.5	97087.19	6.50	90.80	0.00	1.38	0.00	0.00	0.00	23	0	0	0	0	0	31,340	2,984	0	0	0	0	0	28,356
969+50	97113.69	26.50	41.21	0.00	21.08	0.00	0.00	0.00	65	0	11	0	0	0	31,405	2,998	0	0	0	0	0	28,407
969+51.5	97115.19	1.50	40.11	0.00	22.19	0.00	0.00	0.00	2	0	1	0	0	0	31,407	3,000	0	0	0	0	0	28,407
969+75	97138.69	23.50	34.05	0.00	43.93	0.00	0.00	0.00	32	0	29	0	0	0	31,439	3,036	0	0	0	0	0	28,404
969+89.6	97153.29	14.60	38.75	0.00	62.71	0.00	0.00	0.00	20	0	29	0	0	0	31,459	3,072	0	0	0	0	0	28,387
970+00	97163.69	10.40	94.47	0.00	69.03	0.00	0.00	0.00	26	0	25	0	0	0	31,485	3,103	0	0	0	0	0	28,381
970+10	97173.69	10.00	210.73	0.00	21.85	0.00	0.00	0.00	57	0	17	0	0	0	31,541	3,124	0	0	0	0	0	28,417
970+25	97188.69	15.00	632.05	0.00	19.57	0.00	0.00	0.00	234	0	12	0	0	0	31,775	3,139	0	0	0	0	0	28,636
970+40	97203.69	15.00	1594.97	0.00	11.93	0.00	0.00	0.00	619	0	9	0	0	0	32,394	3,150	0	0	0	0	0	29,244
970+50	97213.69	10.00	2550.20	0.00	12.39	0.00	0.00	0.00	768	0	5	0	0	0	33,161	3,155	0	0	0	0	0	30,006
970+58	97221.69	8.00	3408.69	0.00	10.94	0.00	0.00	0.00	883	0	3	0	0	0	34,044	3,160	0	0	0	0	0	30,885
970+67.03	97230.72	9.03	4299.74	0.00	1.21	0.00	0.00	0.00	1,289	0	2	0	0	0	35,334	3,162	0	0	0	0	0	32,171
971+00	97263.69	32.97	6269.21	0.00	0.00	0.00	0.00	0.00	6,453	0	1	0	0	0	41,786	3,163	0	0	0	0	0	38,623
						SUBTOTAL			18,019	0	228	0	0	0								

			AREA (SF)						Incremental Vol (CY) (Unadjusted)						Cumulative Vol (CY)							
STATION	Real Station	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Expanded Rock	Expanded EBS Backfill	Reduced Marsh in Fill	Reduced EBS in Fill	Mass Ordinate
															1.00	1.25	1.50	1.10	1.30	0.60	0.80	
									Note 1	Note 2	Note 3				Note 1		Note 4		Note 5	Note 6	Note 7	Note 8
971+50	97313.69	50.00	6745.70	0.00	0.00	0.00	0.00	0.00	12,051	0	0	0	0	0	53,837	3,163	0	0	0	0	0	50,674
972+00	97363.69	50.00	4145.28	0.00	0.00	0.00	0.00	0.00	10,084	0	0	0	0	0	63,921	3,163	0	0	0	0	0	60,758
972+50	97413.69	50.00	1666.55	0.00	31.30	0.00	0.00	0.00	5,381	0	29	0	0	0	69,302	3,199	0	0	0	0	0	66,103
972+69	97432.69	19.00	622.63	0.00	34.69	0.00	0.00	0.00	805	0	23	0	0	0	70,108	3,228	0	0	0	0	0	66,880
972+90	97453.69	21.00	344.79	0.00	78.96	0.00	0.00	0.00	376	0	44	0	0	0	70,484	3,284	0	0	0	0	0	67,201
973+00	97463.69	10.00	242.79	0.00	96.51	0.00	0.00	0.00	109	0	32	0	0	0	70,593	3,324	0	0	0	0	0	67,269
973+15	97478.69	15.00	152.84	0.00	90.65	0.00	0.00	0.00	110	0	52	0	0	0	70,703	3,389	0	0	0	0	0	67,314
973+25	97488.69	10.00	129.69	0.00	85.84	0.00	0.00	0.00	52	0	33	0	0	0	70,755	3,430	0	0	0	0	0	67,325
973+34.24	97497.93	9.24	113.27	0.00	92.14	0.00	0.00	0.00	42	0	30	0	0	0	70,797	3,468	0	0	0	0	0	67,329
973+50	97513.69	15.76	87.93	0.00	103.03	0.00	0.00	0.00	59	0	57	0	0	0	70,855	3,539	0	0	0	0	0	67,316
973+69.24	97532.93	19.24	29.35	0.00	107.32	0.00	0.00	0.00	42	0	75	0	0	0	70,897	3,633	0	0	0	0	0	67,264
973+80	97543.69	10.76	8.13	0.00	105.04	0.00	0.00	0.00	7	0	42	0	0	0	70,905	3,686	0	0	0	0	0	67,219
973+90	97553.69	10.00	0.00	0.00	123.71	0.00	0.00	0.00	2	0	42	0	0	0	70,906	3,739	0	0	0	0	0	67,167
974+00	97563.69	10.00	0.00	0.00	130.88	0.00	0.00	0.00	0	0	47	0	0	0	70,906	3,798	0	0	0	0	0	67,108
974+05.57	97569.26	5.57	0.00	0.00	97.79	0.00	0.00	0.00	0	0	24	0	0	0	70,906	3,827	0	0	0	0	0	67,079
974+05.58	97569.27	0.01	0.00	0.00	97.81	0.00	0.00	0.00	0	0	0	0	0	0	70,906	3,827	0	0	0	0	0	67,079
974+41.91	97605.60	36.33	0.00	0.00	127.17	0.00	0.00	0.00	0	0	151	0	0	0	70,906	4,017	0	0	0	0	0	66,890
974+50	97613.69	8.09	0.00	0.00	119.59	0.00	0.00	0.00	0	0	37	0	0	0	70,906	4,063	0	0	0	0	0	66,843
974+78.25	97641.94	28.25	0.00	0.00	136.11	0.00	0.00	0.00	0	0	134	0	0	0	70,906	4,230	0	0	0	0	0	66,676
975+00	97663.69	21.75	0.00	0.00	117.20	0.00	0.00	0.00	0	0	102	0	0	0	70,906	4,358	0	0	0	0	0	66,549
975+12.45	97676.14	12.45	0.00	0.00	101.54	0.00	0.00	0.00	0	0	50	0	0	0	70,906	4,421	0	0	0	0	0	66,486
975+14.58	97678.27	2.13	0.08	0.00	101.67	0.00	0.00	0.00	0	0	8	0	0	0	70,906	4,431	0	0	0	0	0	66,476
975+40	97703.69	25.42	1.07	0.00	126.08	0.00	0.00	0.00	1	0	107	0	0	0	70,907	4,565	0	0	0	0	0	66,342
975+50	97713.69	10.00	3.47	0.00	111.15	0.00	0.00	0.00	1	0	44	0	0	0	70,908	4,619	0	0	0	0	0	66,288
976+00	97763.69	50.00	18.59	0.00	64.78	0.00	0.00	0.00	20	0	163	0	0	0	70,928	4,823	0	0	0	0	0	66,105
976+19.32	97783.01	19.32	21.11	0.00	71.22	0.00	0.00	0.00	14	0	49	0	0	0	70,942	4,884	0	0	0	0	0	66,058
976+23.4	97787.09	4.08	21.05	0.00	73.51	0.00	0.00	0.00	3	0	11	0	0	0	70,945	4,898	0	0	0	0	0	66,048
976+45	97808.69	21.60	20.09	0.00	94.29	0.00	0.00	0.00	16	0	67	0	0	0	70,962	4,982	0	0	0	0	0	65,980
976+46.7	97810.39	1.70	19.85	0.00	94.18	0.00	0.00	0.00	1	0	6	0	0	0	70,963	4,989	0	0	0	0	0	65,974
976+50	97813.69	3.30	19.58	0.00	89.60	0.00	0.00	0.00	2	0	11	0	0	0	70,966	5,003	0	0	0	0	0	65,963
976+55.65	97819.34	5.65	19.06	0.00	82.02	0.00	0.00	0.00	4	0	18	0	0	0	70,970	5,025	0	0	0	0	0	65,944
976+55.66	97819.35	0.00	19.06	0.00	82.02	0.00	0.00	0.00	0	0	0	0	0	0	70,970	5,025	0	0	0	0	0	65,944
976+89.41	97853.10	33.76	14.22	0.00	96.72	0.00	0.00	0.00	21	0	112	0	0	0	70,990	5,165	0	0	0	0	0	65,825
976+91.99	97855.68	2.58	13.84	0.00	95.27	0.00	0.00	0.00	1	0	9	0	0	0	70,992	5,177	0	0	0	0	0	65,815
977+28.32	97892.01	36.33	12.24	0.00	60.56	0.00	0.00	0.00	18	0	105	0	0	0	71,009	5,308	0	0	0	0	0	65,702
977+33.82	97897.51	5.50	11.91	0.00	55.77	0.00	0.00	0.00	2	0	12	0	0	0	71,012	5,322	0	0	0	0	0	65,689
977+64.66	97928.35	30.84	9.28	0.00	37.37	0.00	0.00	0.00	12	0	53	0	0	0	71,024	5,389	0	0	0	0	0	65,635
977+78.22	97941.91	13.57	8.44	0.00	37.82	0.00	0.00	0.00	4	0	19	0	0	0	71,028	5,413	0	0	0	0	0	65,616
978+00	97963.69	21.78	8.66	0.00	34.21	0.00	0.00	0.00	7	0	29	0	0	0	71,035	5,449	0	0	0	0	0	65,586
978+00.99	97964.68	0.99	8.76	0.00	34.03	0.00	0.00	0.00	0	0	1	0	0	0	71,036	5,450	0	0	0	0	0	65,585
978+21.16	97984.85	20.17	10.36	0.00	28.15	0.00	0.00	0.00	7	0	23	0	0	0	71,043	5,479	0	0	0	0	0	65,563
978+22.63	97986.32	1.48	10.44	0.00	27.72	0.00	0.00	0.00	1	0	2	0	0	0	71,043	5,481	0	0	0	0	0	65,562
978+64.82	98028.51	42.19	16.39	0.00	35.35	0.00	0.00	0.00	21	0	49	0	0	0	71,064	5,543	0	0	0	0	0	65,521
979+00	98063.69	35.18	16.23	0.00	53.10	0.00	0.00	0.00	21	0	58	0	0	0	71,085	5,615	0	0	0	0	0	65,471
979+08	98071.69	8.00	15.78	0.00	49.20	0.00	0.00	0.00	5	0	15	0	0	0	71,090	5,634	0	0	0	0	0	65,456
979+50	98113.69	42.00	20.37	0.00	44.35	0.00	0.00	0.00	28	0	73	0	0	0	71,118	5,725	0	0	0	0	0	65,393
980+00	98163.69	50.00	22.04	0.00	59.64	0.00	0.00	0.00	39	0	96	0	0	0	71,158	5,845	0	0	0	0	0	65,312
980+50	98213.69	50.00	23.77	0.00	62.98	0.00	0.00	0.00	42	0	114	0	0	0	71,200	5,987	0	0	0	0	0	65,213
981+00	98263.69	50.00	21.10	0.00	57.72	0.00	0.00	0.00	42	0	112	0	0	0	71,242	6,127	0	0	0	0	0	65,115
981+50	98313.69	50.00	22.00	0.00	52.04	0.00	0.00	0.00	40	0	102	0	0	0	71,281	6,254	0	0	0	0	0	65,028
982+00	98363.69	50.00	18.97	0.00	42.90	0.00	0.00	0.00	38	0	88	0	0	0	71,319	6,364	0	0	0	0	0	64,956
982+43.44	98407.13	43.44	21.36	0.00	36.12	0.00	0.00	0.00	32	0	64	0	0	0	71,352	6,443	0	0	0	0	0	64,909
982+50	98413.69	6.56	21.52	0.00	35.88	0.00	0.00	0.00	5	0	9	0	0	0	71,357	6,454	0	0	0	0	0	64,903
983+00	98463.69	50.00	19.51	0.00	47.75	0.00	0.00	0.00	38	0	77	0	0	0	71,395	6,551	0	0	0	0	0	64,844
983+50	98513.69	50.00	22.23	0.00	43.74	0.00	0.00	0.00	39	0	85	0	0	0	71,434	6,657	0	0	0	0	0	64,777
984+00	98563.69	50.00	21.17	0.00	53.32	0.00	0.00	0.00	40	0	90	0	0	0	71,474	6,769	0	0	0	0	0	64,705
984+50	98613.69	50.00	28.87	0.00	10.84	0.00	0.00	0.00	46	0	59	0	0	0	71,520	6,843	0	0	0	0	0	64,677
985+00	98663.69	50.00	34.60	0.00	9.62	0.00	0.00	0.00	59	0	19	0	0	0	71,579	6,867	0	0	0	0	0	64,712
985+50	98713.69	50.00	42.91	0.00	8.71	0.00	0.00	0.00	72	0	17	0	0	0	71,651	6,888	0	0	0	0	0	64,763
985+64	98727.69	14.00	45.83	0.00	5.59	0.00	0.00	0.00	23	0	4	0	0	0	71,674	6,893	0	0	0	0	0	64,781
986+00	98763.69	36.00	42.69	0.00	11.14	0.00	0.00	0.00	59	0	11	0	0	0	71,733	6,907	0	0	0	0	0	64,826
986+22.06	98785.75	22.06	48.65	0.00	10.25	0.00	0.00	0.00	37	0	9	0	0	0	71,770	6,918	0	0	0	0	0	64,852
986+50	98813.69	27.94	50.12	0.00	12.17	0.00	0.00	0.00	51	0	12	0	0	0	71,821	6,932	0	0	0	0	0	64,889
986+64.24	98827.93	14.24	50.73	0.00	11.48	0.00	0.00	0.00	27	0	6	0	0	0	71,848	6,940	0	0	0	0	0	64,908
986+65.72	98829.41	1.48	50.79	0.00	11.42	0.00	0.00	0.00	3	0	1	0	0	0	71,851	6,941	0	0	0	0	0	64,910
987+08.65	98872.34	42.93	54.05	0.00	5.83	0.00	0.00	0.00	83	0	14	0	0	0	71,934	6,958	0	0	0	0	0	64,976
987+53.06	98916.75	44.41	58.42	0.00	0.57	0.00	0.00	0.00	92	0	5	0	0	0	72,026	6,965	0	0	0	0	0	65,062
987+97.47	98961.16	44.41	60.23	0.00	0.22	0.00	0.00	0.00	98	0	1	0	0	0	72,124	6,965	0	0	0	0	0	65,159
988+00	98963.69	2.53	59.49	0.00	0.30	0.00	0.00	0.00	6	0	0	0	0	0	72,130	6,965	0	0	0	0	0	65,164
						SUBTOTAL			30,344	0	3,042	0	0	0								

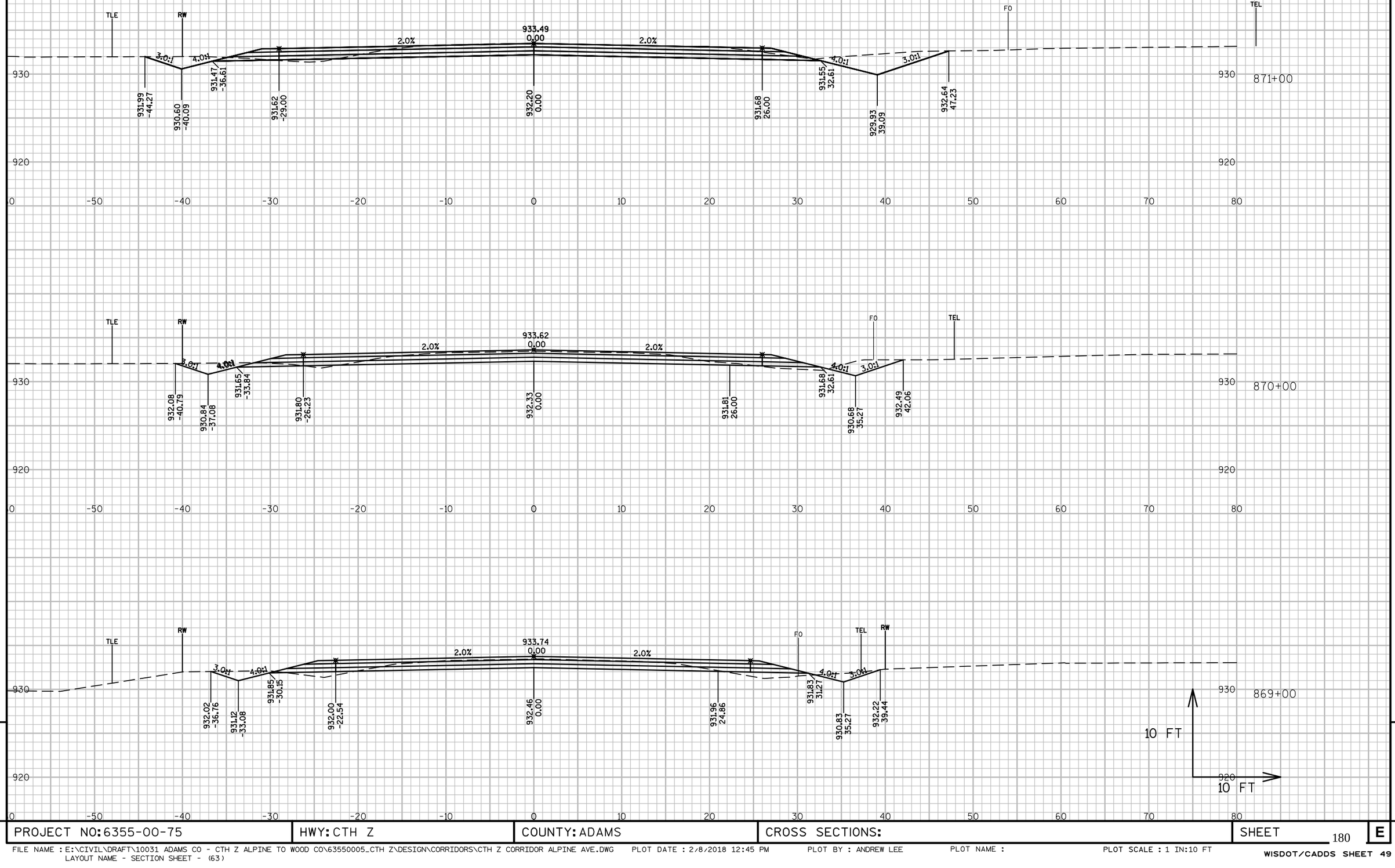
			AREA (SF)						Incremental Vol (CY) (Unadjusted)						Cumulative Vol (CY)							
STATION	Real Station	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Expanded Rock	Expanded EBS Backfill	Reduced Marsh in Fill	Reduced EBS in Fill	Mass Ordinate
									Note 1	Note 2	Note 3				1.00 Note 1	1.25	1.50 Note 4	1.10	1.30 Note 5	0.60 Note 6	0.80 Note 7	Note 8
988+37.5	99001.19	37.50	54.04	0.00	1.68	0.00	0.00	0.00	79	0	1	0	0	0	72,208	6,967	0	0	0	0	0	65,241
988+41.87	99005.56	4.37	54.33	0.00	1.57	0.00	0.00	0.00	9	0	0	0	0	0	72,217	6,967	0	0	0	0	0	65,250
988+62.5	99026.19	20.63	60.05	0.00	1.22	0.00	0.00	0.00	44	0	1	0	0	0	72,261	6,969	0	0	0	0	0	65,292
988+63	99026.69	0.50	60.10	0.00	1.22	0.00	0.00	0.00	1	0	0	0	0	0	72,262	6,969	0	0	0	0	0	65,293
988+87.5	99051.19	24.50	62.84	0.00	4.78	0.00	0.00	0.00	56	0	3	0	0	0	72,318	6,972	0	0	0	0	0	65,346
989+00	99063.69	12.50	64.40	0.00	10.25	0.00	0.00	0.00	29	0	3	0	0	0	72,347	6,977	0	0	0	0	0	65,371
989+13.42	99077.11	13.42	68.04	0.00	10.99	0.00	0.00	0.00	33	0	5	0	0	0	72,380	6,983	0	0	0	0	0	65,397
989+25	99088.69	11.58	67.79	0.00	8.51	0.00	0.00	0.00	29	0	4	0	0	0	72,409	6,988	0	0	0	0	0	65,421
989+50	99113.69	25.00	69.93	0.00	7.94	0.00	0.00	0.00	64	0	8	0	0	0	72,473	6,998	0	0	0	0	0	65,475
989+57.82	99121.51	7.82	70.55	0.00	11.28	0.00	0.00	0.00	20	0	3	0	0	0	72,493	7,001	0	0	0	0	0	65,492
990+00	99163.69	42.18	67.50	0.00	9.57	0.00	0.00	0.00	108	0	16	0	0	0	72,601	7,022	0	0	0	0	0	65,580
990+02.22	99165.91	2.22	67.30	0.00	6.05	0.00	0.00	0.00	6	0	1	0	0	0	72,607	7,023	0	0	0	0	0	65,584
990+46.62	99210.31	44.40	65.68	0.00	0.70	0.00	0.00	0.00	109	0	6	0	0	0	72,716	7,029	0	0	0	0	0	65,687
990+76.22	99239.91	29.60	60.57	0.00	7.07	0.00	0.00	0.00	69	0	4	0	0	0	72,785	7,035	0	0	0	0	0	65,751
990+91.02	99254.71	14.80	60.40	0.00	28.88	0.00	0.00	0.00	33	0	10	0	0	0	72,819	7,047	0	0	0	0	0	65,771
991+13.22	99276.91	22.20	54.95	0.00	52.55	0.00	0.00	0.00	47	0	33	0	0	0	72,866	7,089	0	0	0	0	0	65,777
991+50	99313.69	36.78	54.46	0.00	62.20	0.00	0.00	0.00	75	0	78	0	0	0	72,940	7,187	0	0	0	0	0	65,754
992+00	99363.69	50.00	67.43	0.00	58.30	0.00	0.00	0.00	113	0	112	0	0	0	73,053	7,326	0	0	0	0	0	65,727
992+50	99413.69	50.00	78.89	0.00	0.00	0.00	0.00	0.00	135	0	54	0	0	0	73,189	7,394	0	0	0	0	0	65,795
993+00	99463.69	50.00	74.73	0.00	0.00	0.00	0.00	0.00	142	0	0	0	0	0	73,331	7,394	0	0	0	0	0	65,937
993+48.1	99511.79	48.10	61.11	0.00	0.00	0.00	0.00	0.00	121	0	0	0	0	0	73,452	7,394	0	0	0	0	0	66,058
993+50	99513.69	1.90	60.58	0.00	0.00	0.00	0.00	0.00	4	0	0	0	0	0	73,456	7,394	0	0	0	0	0	66,063
994+00	99563.69	50.00	46.44	0.00	0.00	0.00	0.00	0.00	99	0	0	0	0	0	73,555	7,394	0	0	0	0	0	66,162
994+50	99613.69	50.00	48.18	0.00	0.56	0.00	0.00	0.00	88	0	1	0	0	0	73,643	7,394	0	0	0	0	0	66,249
995+00	99663.69	50.00	50.85	0.00	1.24	0.00	0.00	0.00	92	0	2	0	0	0	73,735	7,396	0	0	0	0	0	66,338
995+50	99713.69	50.00	73.36	0.00	0.86	0.00	0.00	0.00	115	0	2	0	0	0	73,850	7,399	0	0	0	0	0	66,451
995+82.99	99746.68	32.99	78.85	0.00	11.18	0.00	0.00	0.00	93	0	7	0	0	0	73,943	7,408	0	0	0	0	0	66,535
996+00	99763.69	17.01	83.49	0.00	22.99	0.00	0.00	0.00	51	0	11	0	0	0	73,994	7,421	0	0	0	0	0	66,572
996+05.19	99768.88	5.19	82.49	0.00	22.81	0.00	0.00	0.00	16	0	4	0	0	0	74,010	7,427	0	0	0	0	0	66,583
996+19.99	99783.68	14.80	78.53	0.00	21.94	0.00	0.00	0.00	44	0	12	0	0	0	74,054	7,442	0	0	0	0	0	66,612
996+49.59	99813.28	29.60	71.59	0.00	18.37	0.00	0.00	0.00	82	0	22	0	0	0	74,136	7,470	0	0	0	0	0	66,666
996+93.99	99857.68	44.40	67.42	0.00	11.58	0.00	0.00	0.00	114	0	25	0	0	0	74,251	7,501	0	0	0	0	0	66,750
997+38.39	99902.08	44.40	74.53	0.00	0.37	0.00	0.00	0.00	117	0	10	0	0	0	74,367	7,513	0	0	0	0	0	66,854
997+82.79	99946.48	44.40	72.50	0.00	1.20	0.00	0.00	0.00	121	0	1	0	0	0	74,488	7,515	0	0	0	0	0	66,974
998+00	99963.69	17.21	66.05	0.00	1.81	0.00	0.00	0.00	44	0	1	0	0	0	74,532	7,516	0	0	0	0	0	67,017
998+63	100026.69	63.00	46.92	0.00	6.24	0.00	0.00	0.00	132	0	9	0	0	0	74,664	7,527	0	0	0	0	0	67,137
998+88	100051.69	25.00	45.36	0.00	8.57	0.00	0.00	0.00	43	0	7	0	0	0	74,707	7,536	0	0	0	0	0	67,171
998+93.7	100057.39	5.70	34.76	0.00	14.34	0.00	0.00	0.00	8	0	2	0	0	0	74,715	7,539	0	0	0	0	0	67,176
999+00	100063.69	6.30	37.19	0.00	19.78	0.00	0.00	0.00	8	0	4	0	0	0	74,724	7,544	0	0	0	0	0	67,180
999+01.62	100065.31	1.62	37.88	0.00	18.93	0.00	0.00	0.00	2	0	1	0	0	0	74,726	7,546	0	0	0	0	0	67,180
999+13	100076.69	11.38	49.88	0.00	0.00	0.00	0.00	0.00	18	0	4	0	0	0	74,744	7,550	0	0	0	0	0	67,194
999+22.36	100086.05	9.36	55.30	0.00	0.00	0.00	0.00	0.00	18	0	0	0	0	0	74,763	7,550	0	0	0	0	0	67,212
						SUBTOTAL			2,633	0	468	0	0	0								
						TOTAL			74,763	0	6,040	0	0	0								



PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 179	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR ALPINE AVE.DWG
LAYOUT NAME - SECTION SHEET - (62)
PLOT DATE : 2/8/2018 12:45 PM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

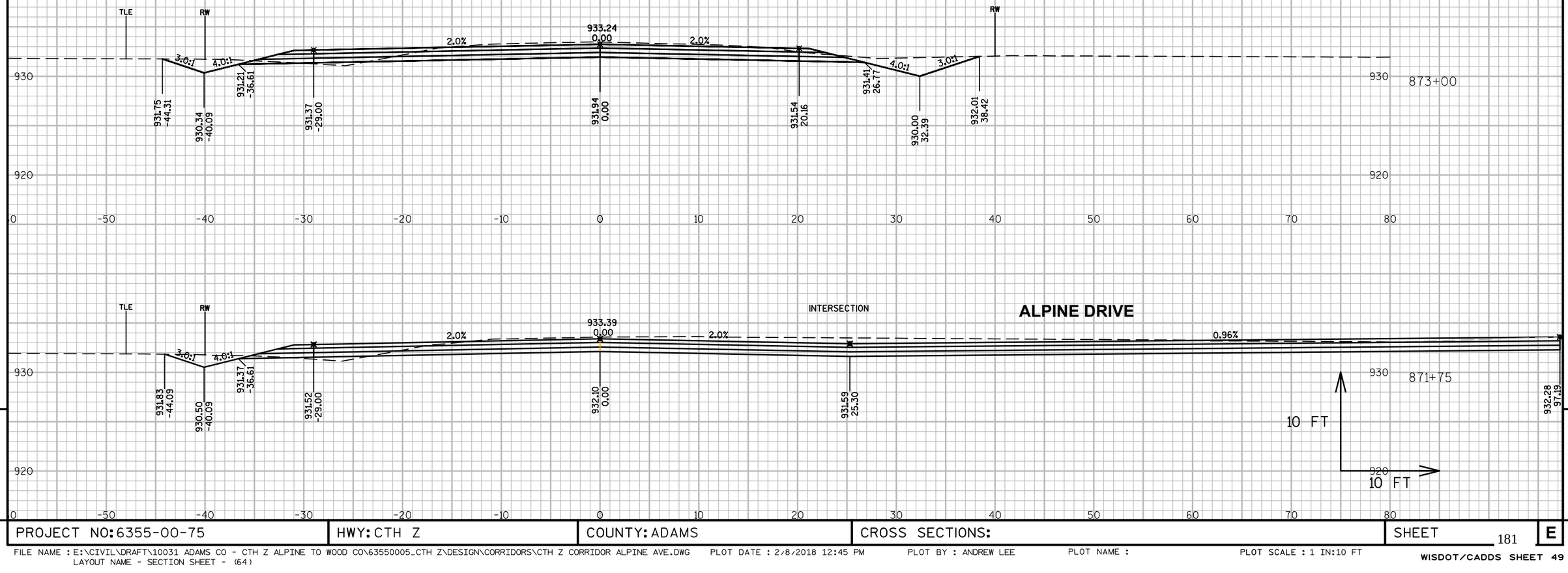
WISDOT/CADDS SHEET 49



PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 180	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR ALPINE AVE.DWG
LAYOUT NAME - SECTION SHEET - (63)
PLOT DATE : 2/8/2018 12:45 PM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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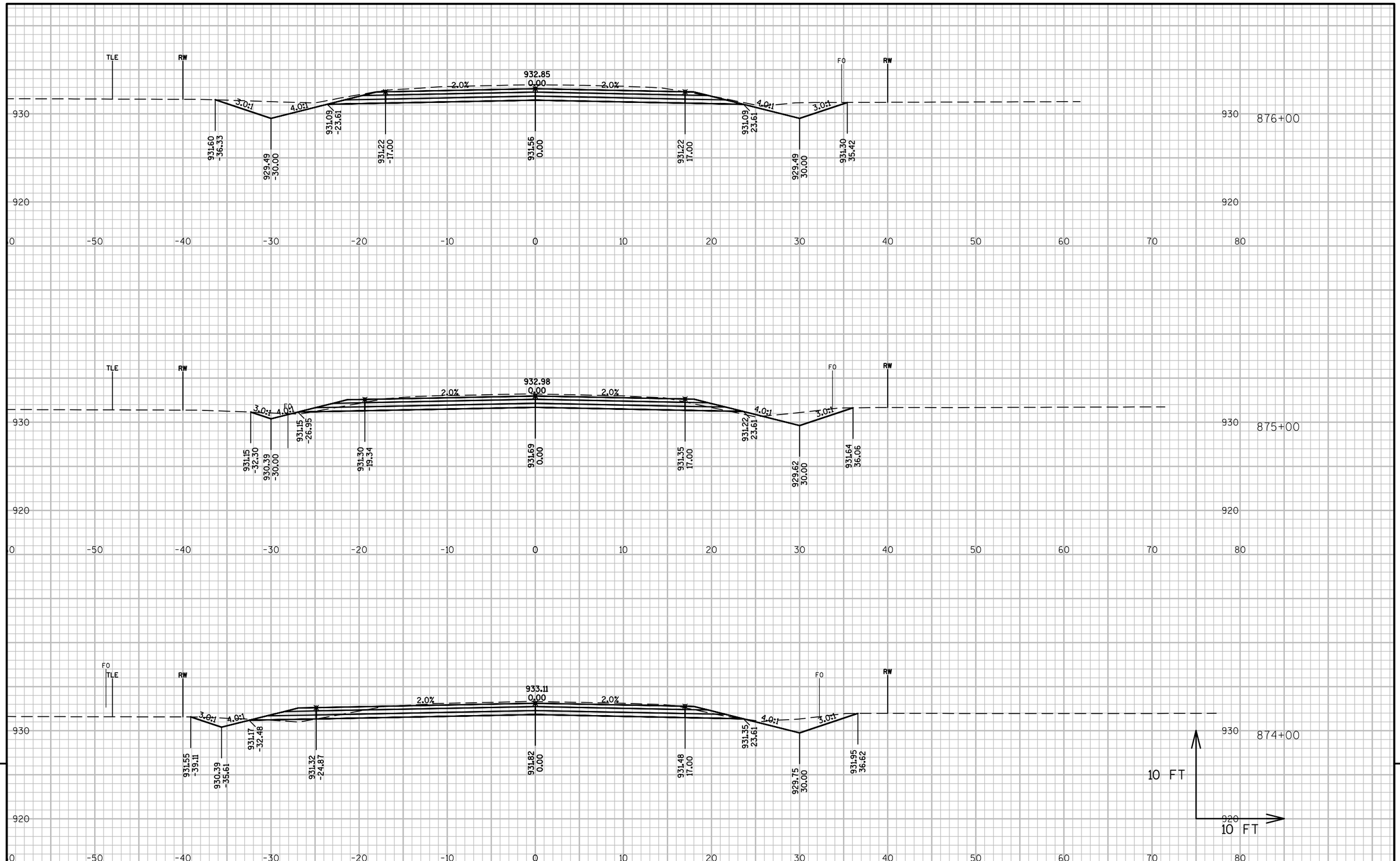
9

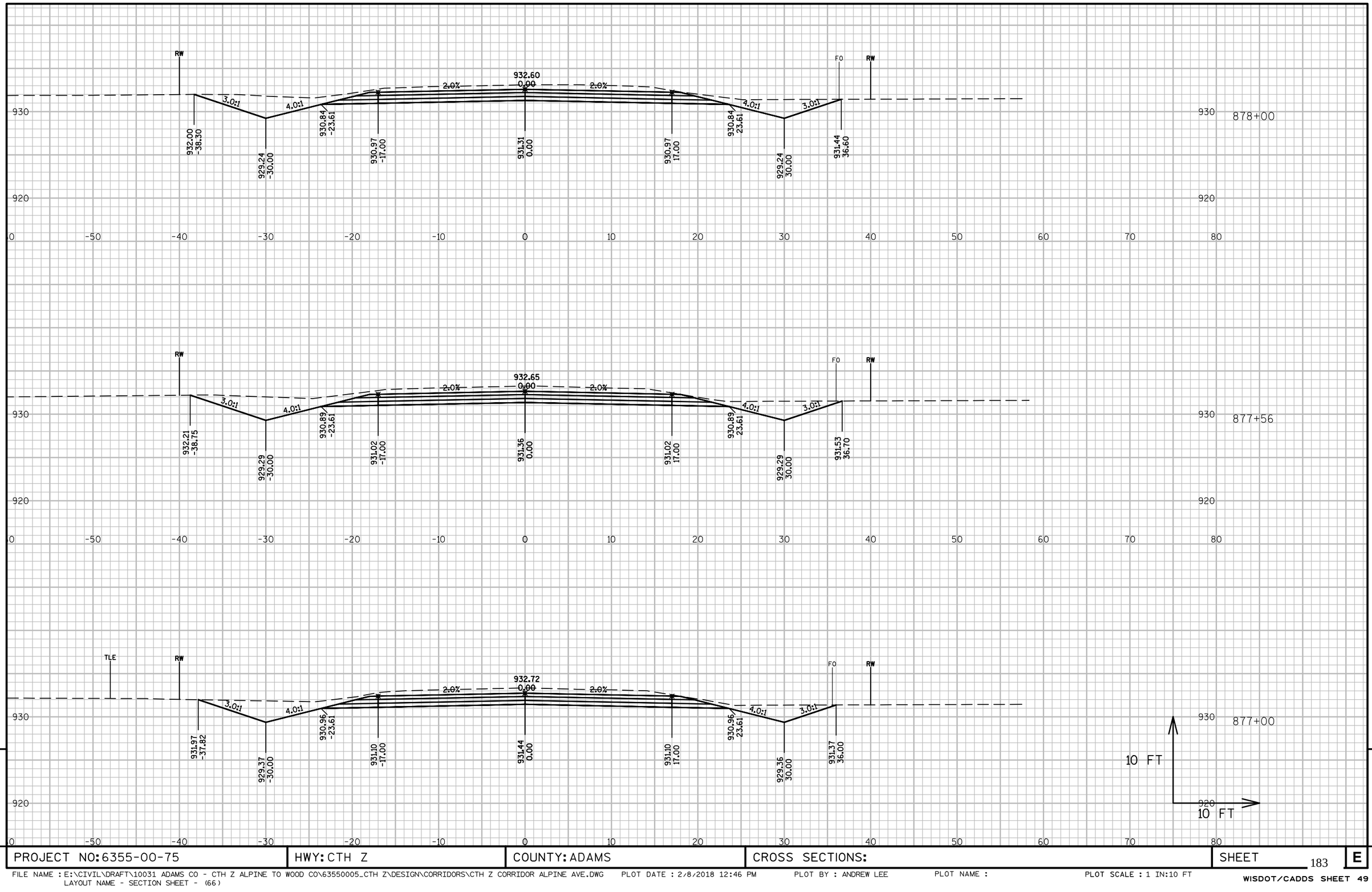
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 181	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR ALPINE AVE.DWG PLOT DATE : 2/8/2018 12:45 PM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT
LAYOUT NAME - SECTION SHEET - (64)

WISDOT/CADDS SHEET 49



PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 182	E



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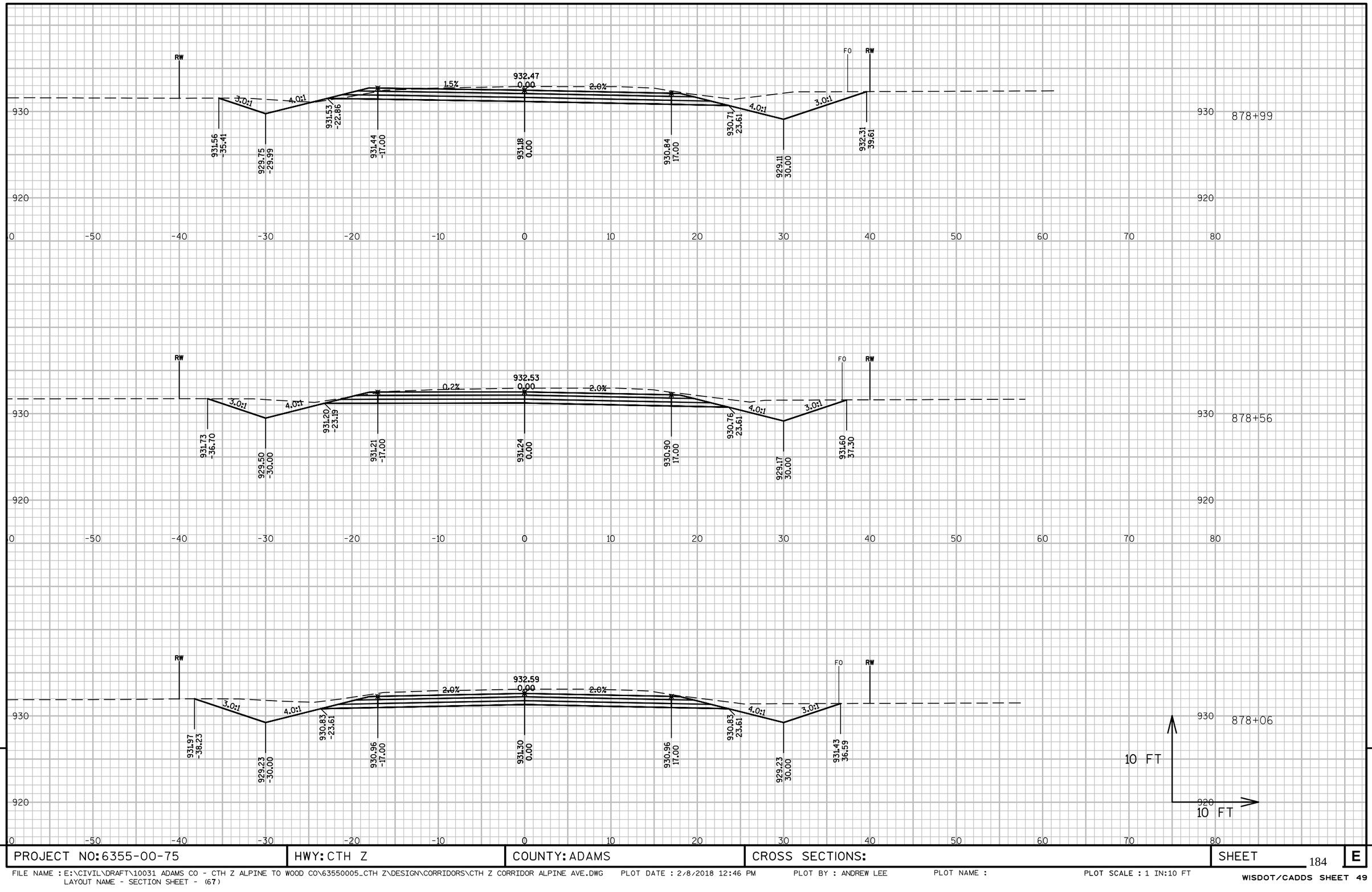
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 183	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR ALPINE AVE.DWG PLOT DATE : 2/8/2018 12:46 PM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT
LAYOUT NAME - SECTION SHEET - (66)

WISDOT/CADDS SHEET 49



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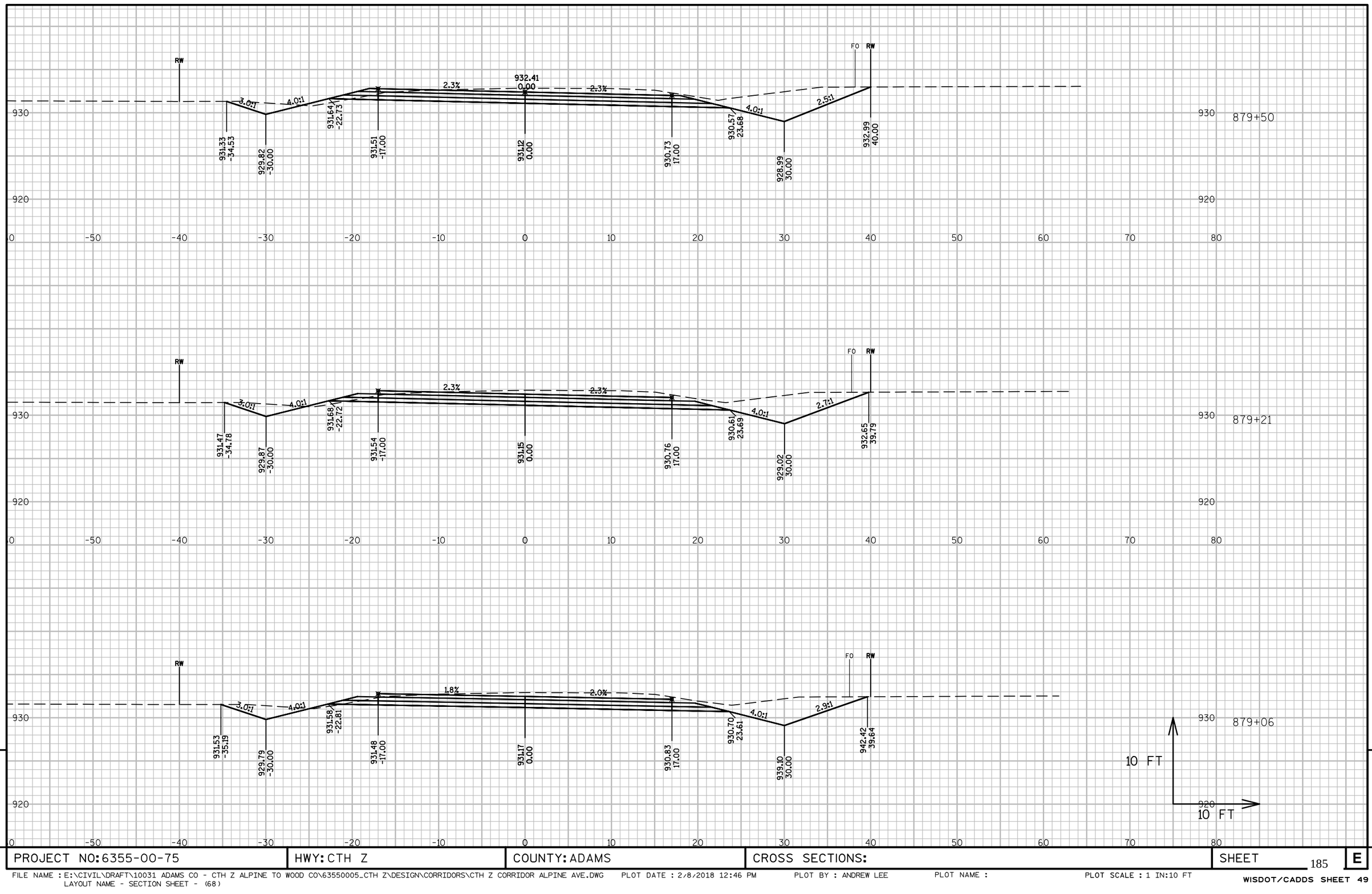
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 184	E



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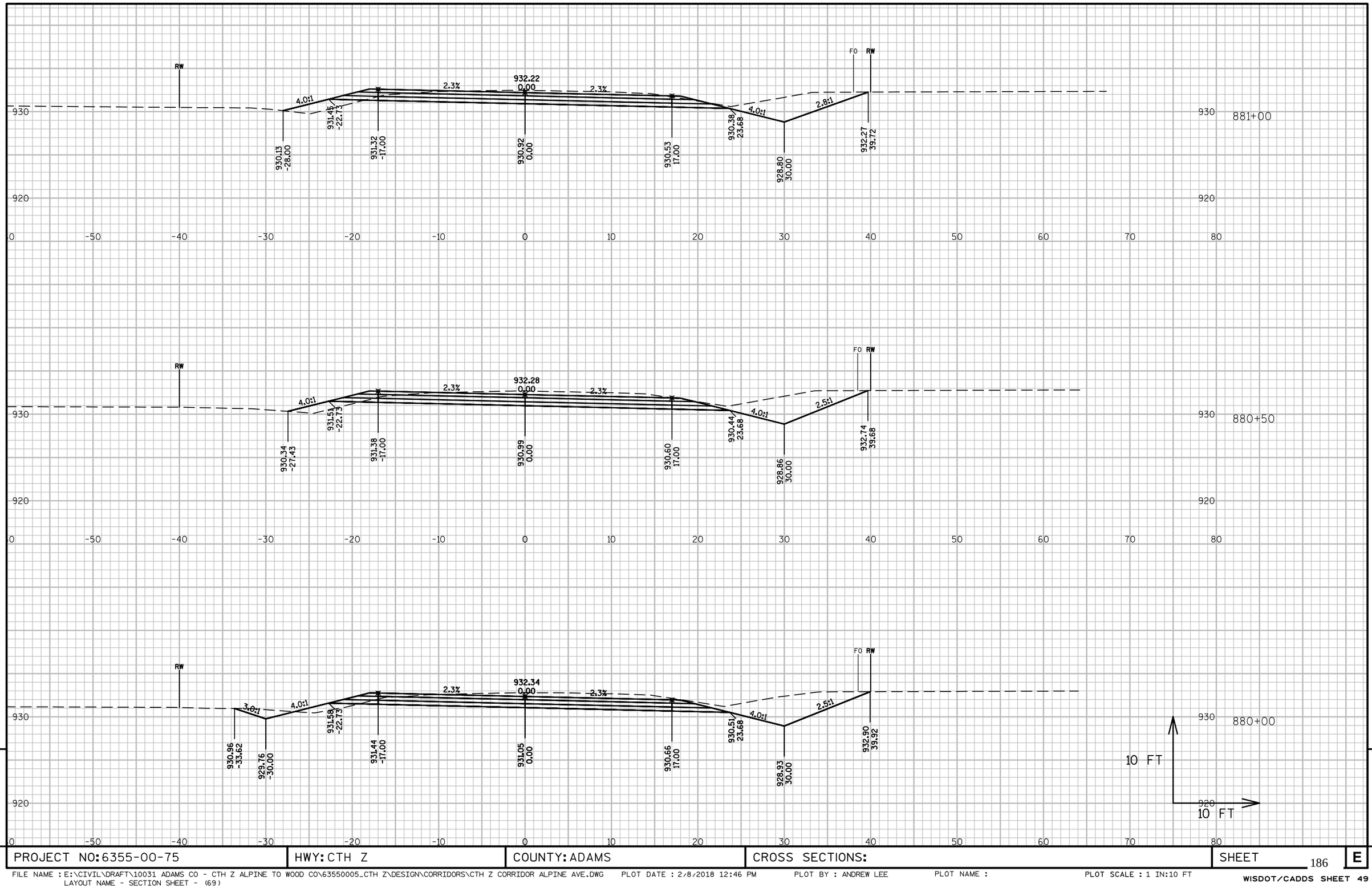
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 185	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR ALPINE AVE.DWG PLOT DATE : 2/8/2018 12:46 PM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT
LAYOUT NAME - SECTION SHEET - (68)
WISDOT/CADDS SHEET 49



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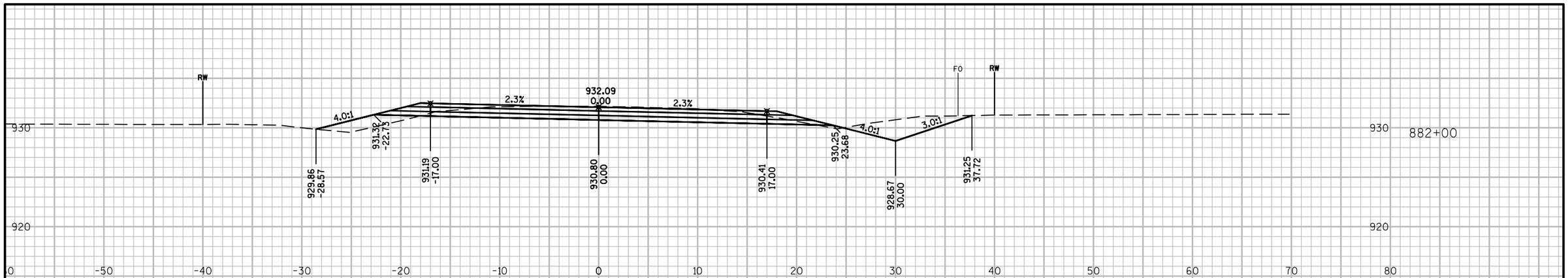
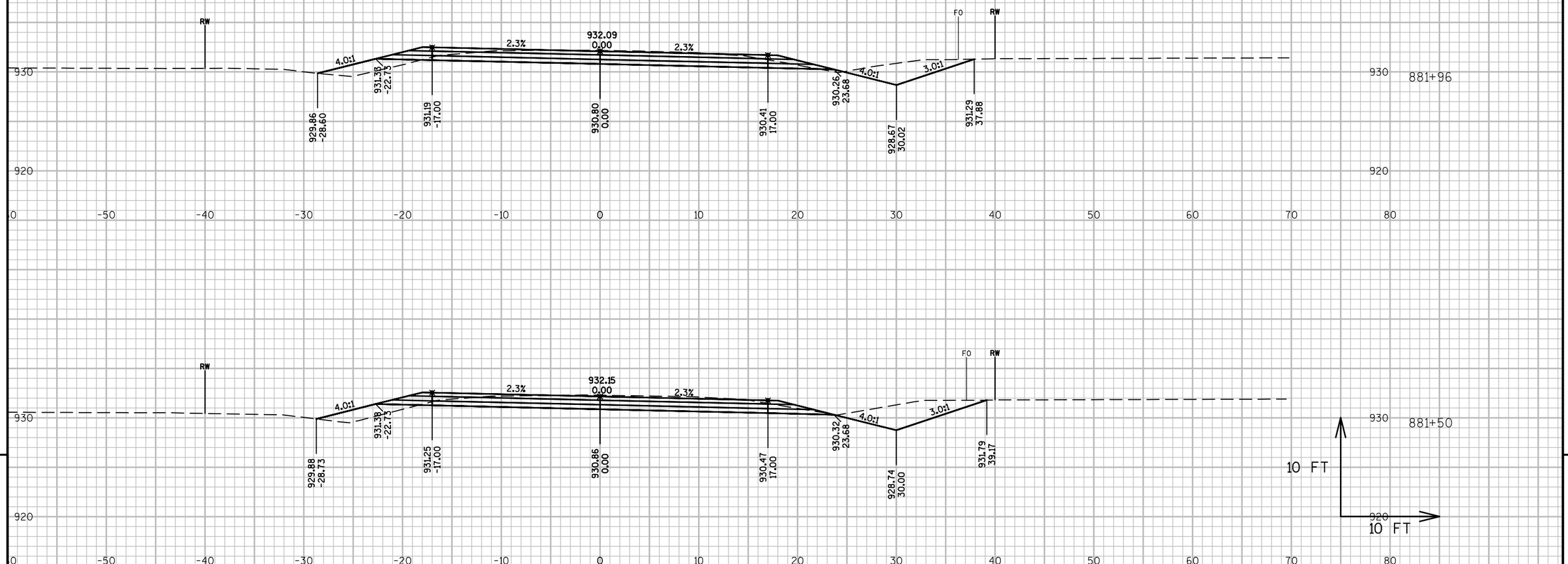
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 186	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR ALPINE AVE.DWG PLOT DATE : 2/8/2018 12:46 PM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT
LAYOUT NAME - SECTION SHEET - (69)
WISDOT/CADDS SHEET 49





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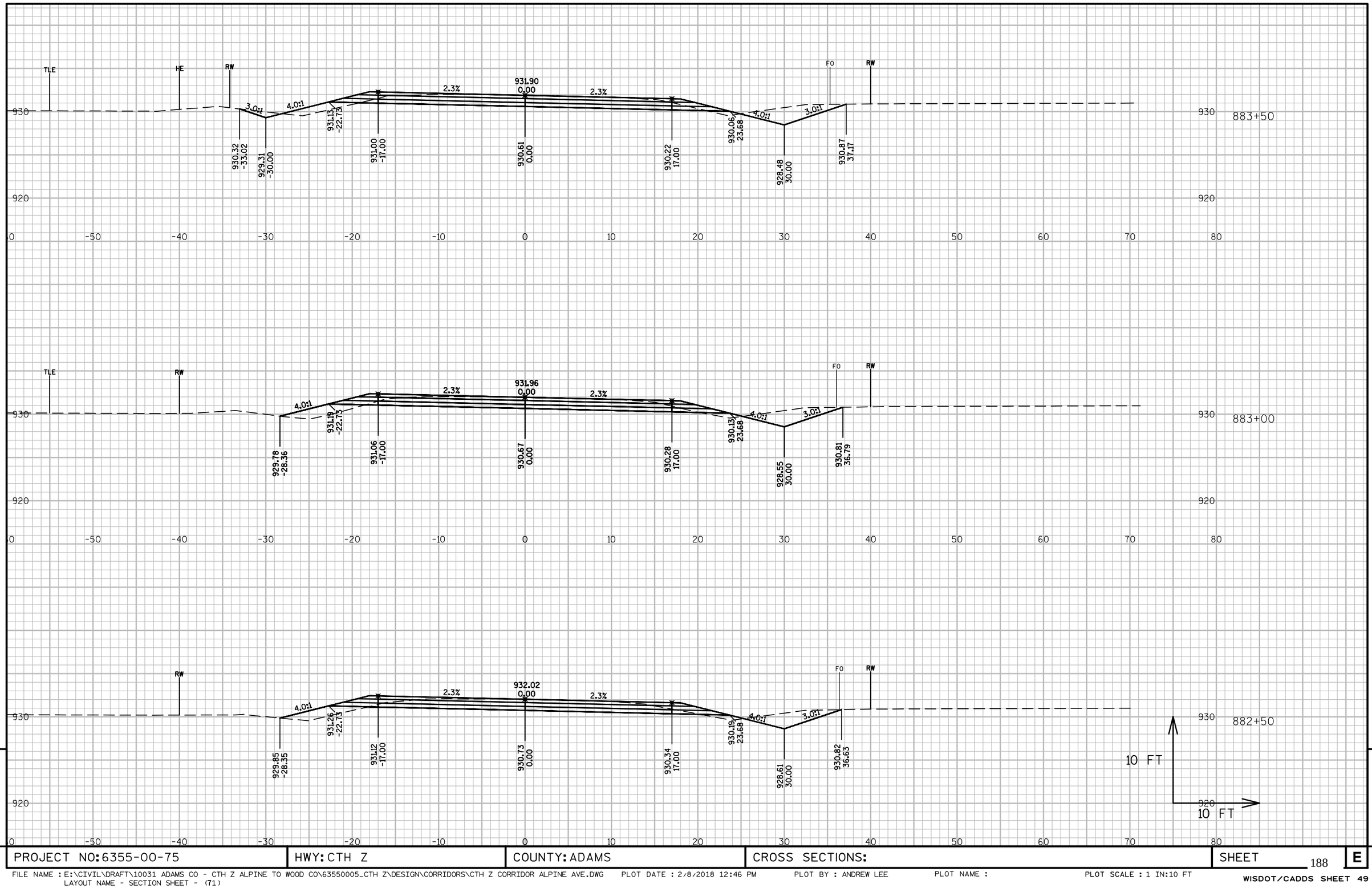
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 187	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR ALPINE AVE.DWG PLOT DATE : 2/8/2018 12:46 PM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT
LAYOUT NAME - SECTION SHEET - (70)



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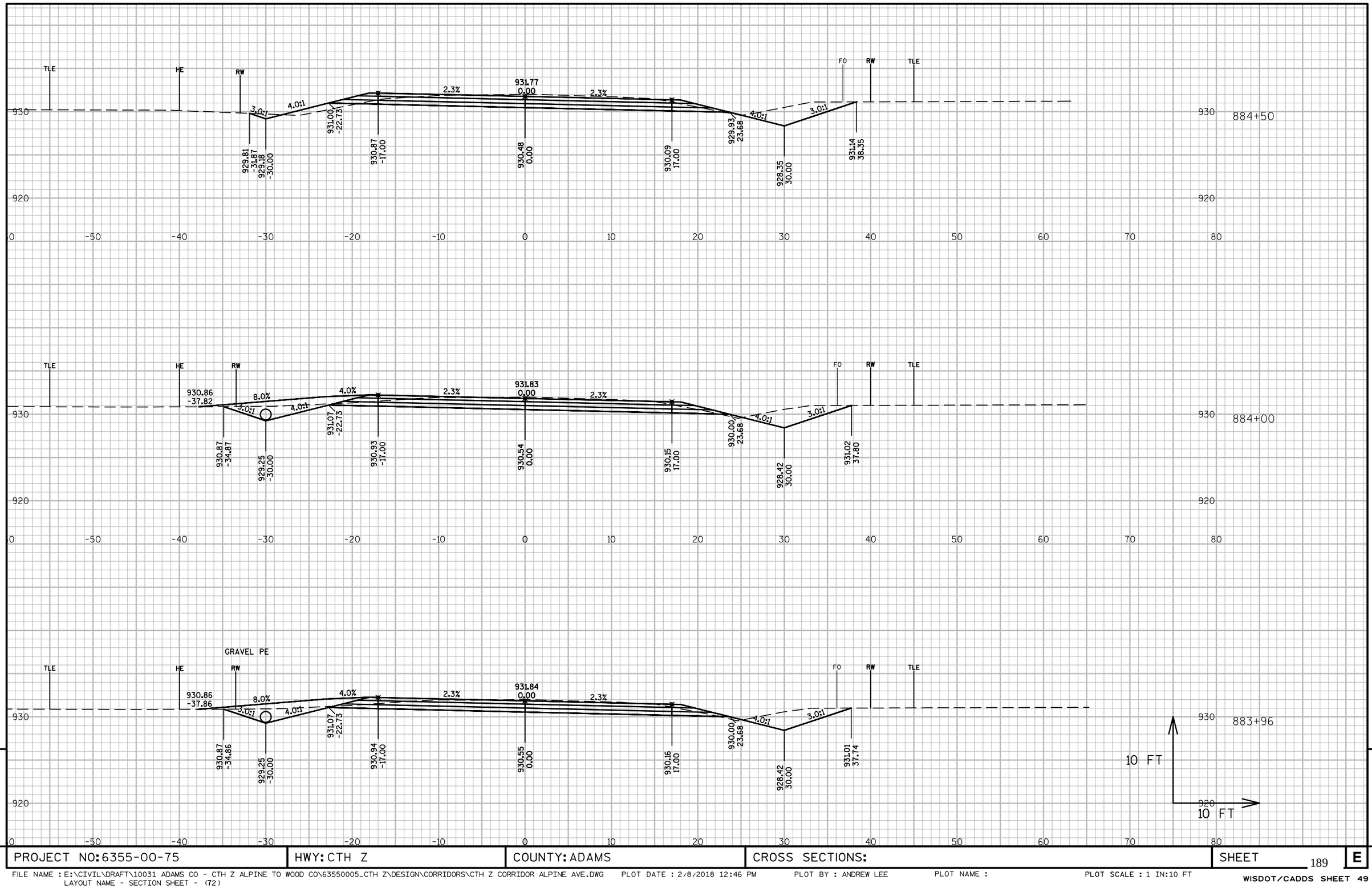
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 188	E

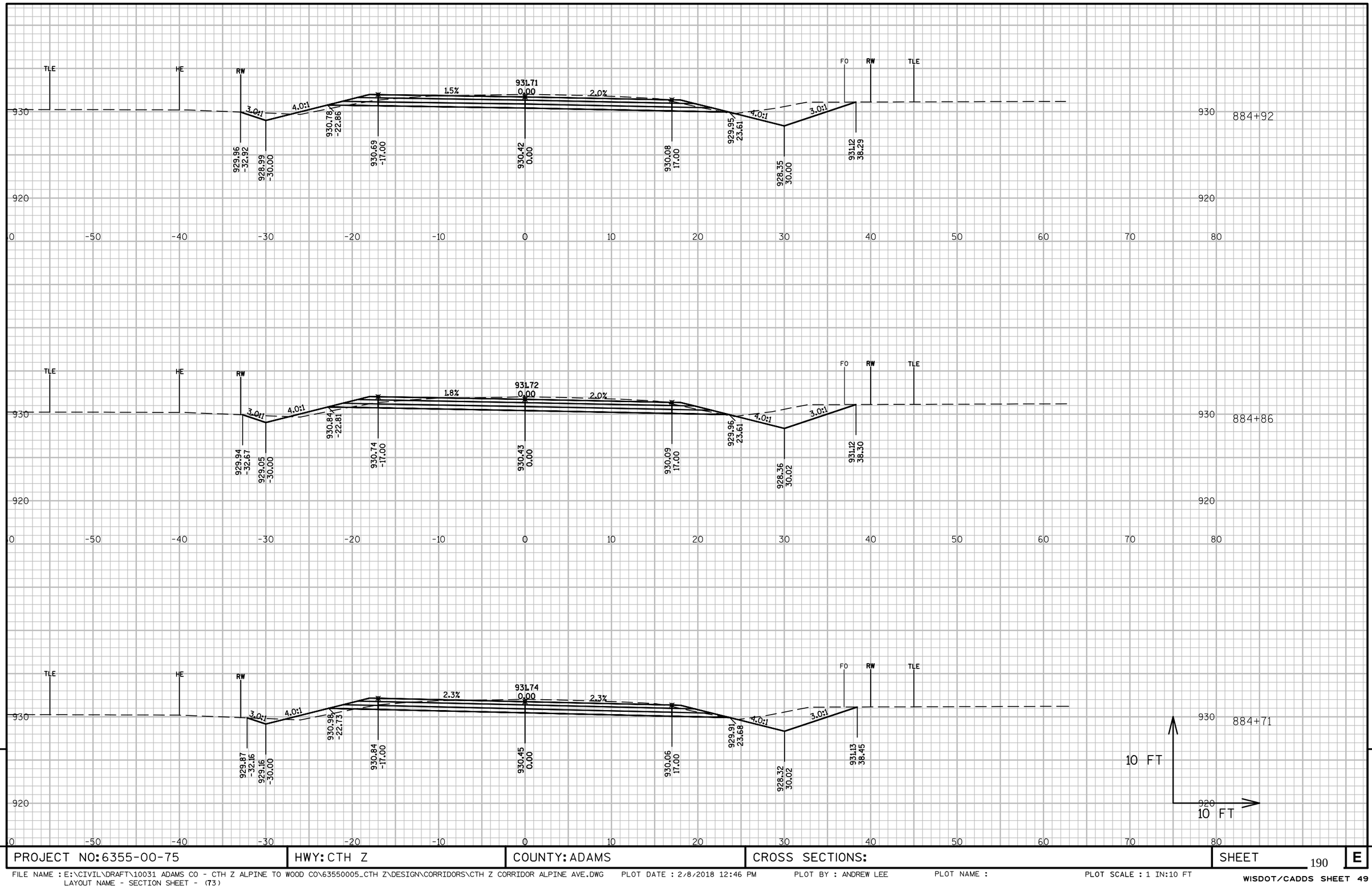
FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR ALPINE AVE.DWG PLOT DATE : 2/8/2018 12:46 PM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT
LAYOUT NAME - SECTION SHEET - (71)
WISDOT/CADDS SHEET 49



PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 189	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR ALPINE AVE.DWG PLOT DATE : 2/8/2018 12:46 PM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT
LAYOUT NAME - SECTION SHEET - (72)

WISDOT/CADDS SHEET 49



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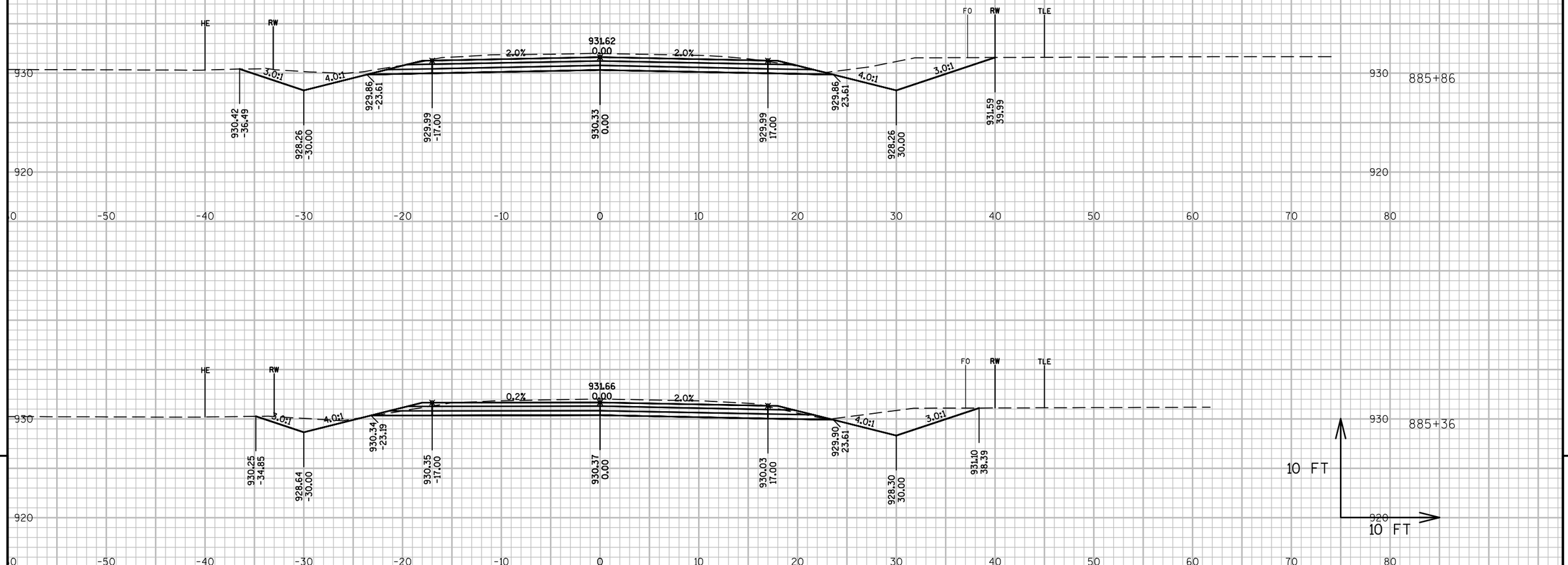
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 190	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR ALPINE AVE.DWG PLOT DATE : 2/8/2018 12:46 PM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT
LAYOUT NAME - SECTION SHEET - (73)



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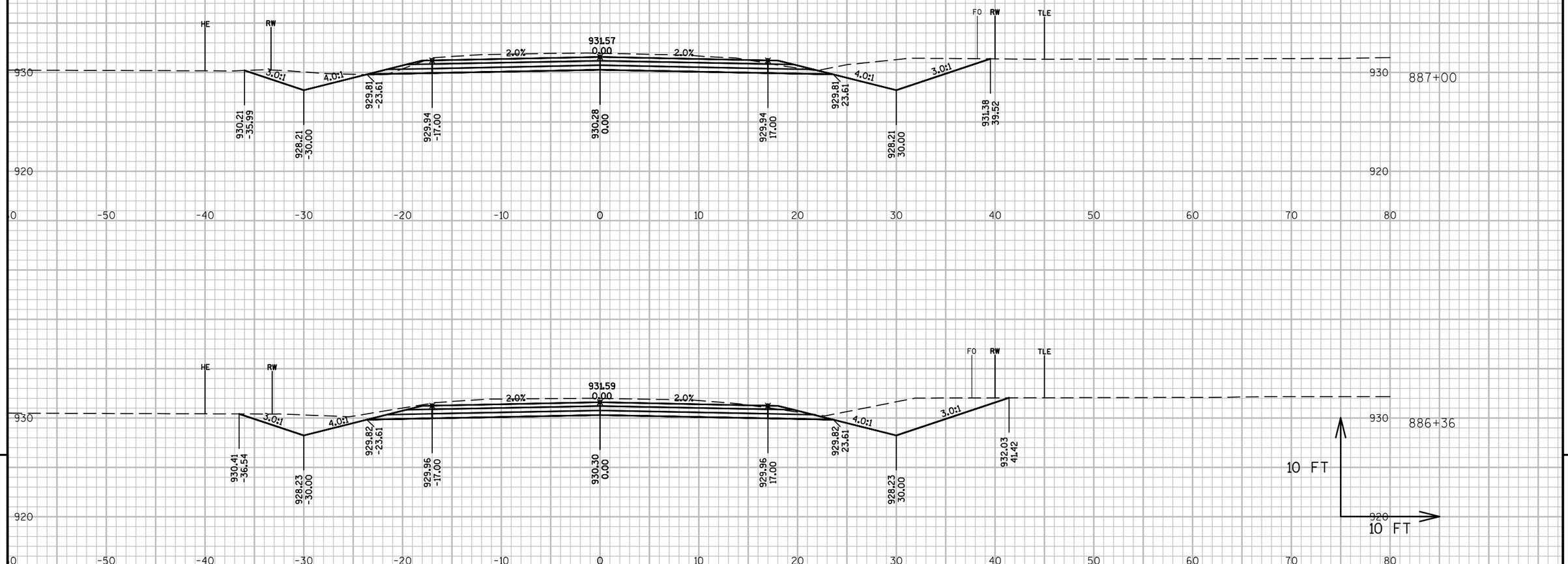
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 191	E



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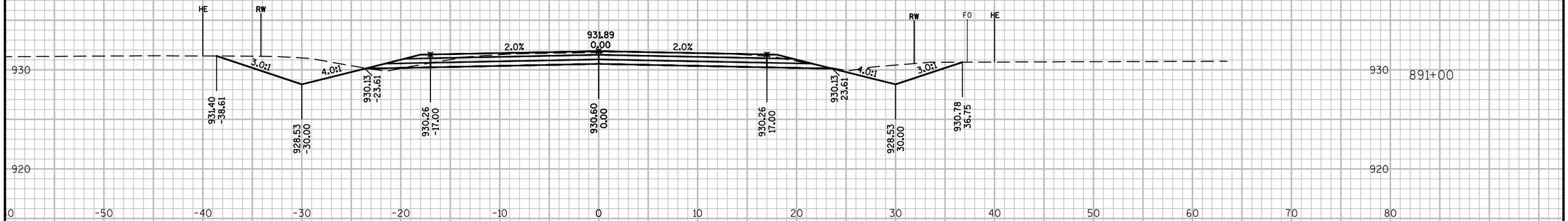
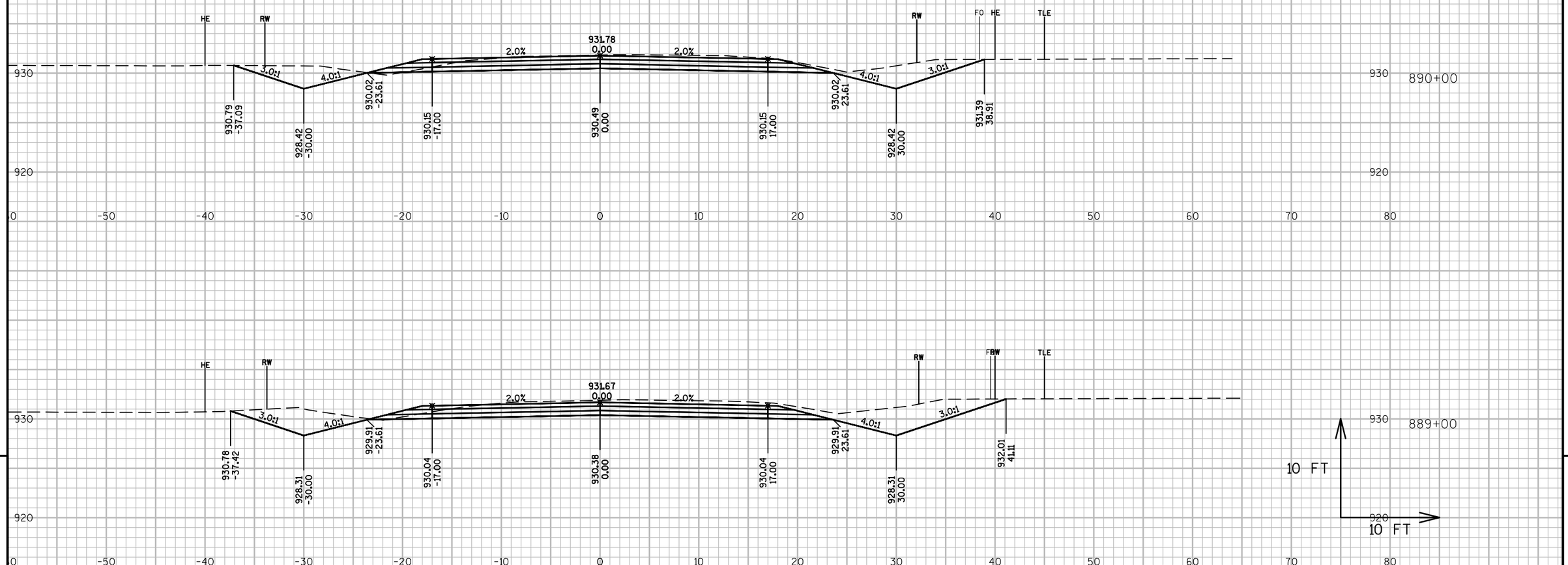
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 192	E





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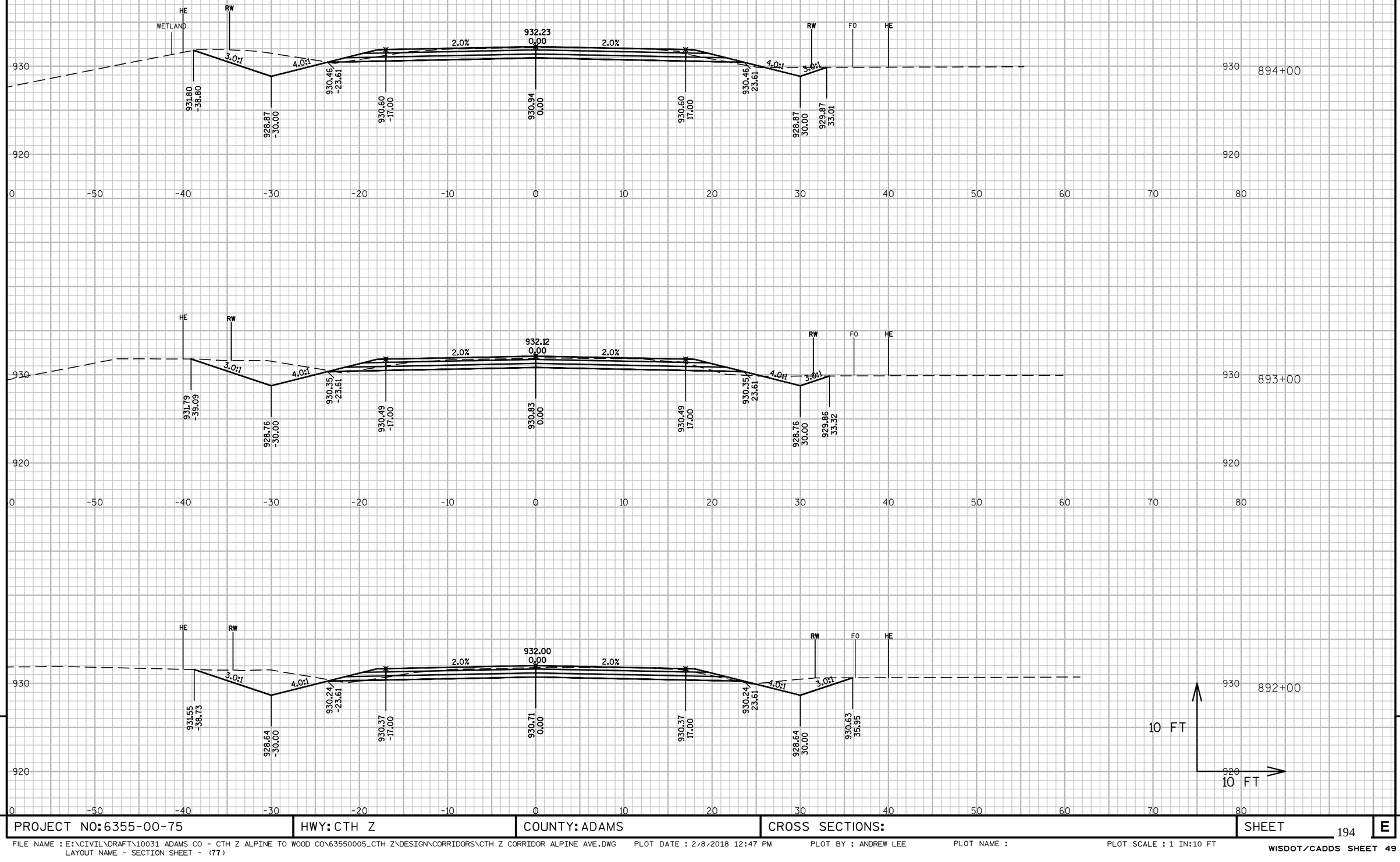
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 193	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR ALPINE AVE.DWG
LAYOUT NAME - SECTION SHEET - (76)
PLOT DATE : 2/8/2018 12:47 PM
PLOT BY : ANDREW LEE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT



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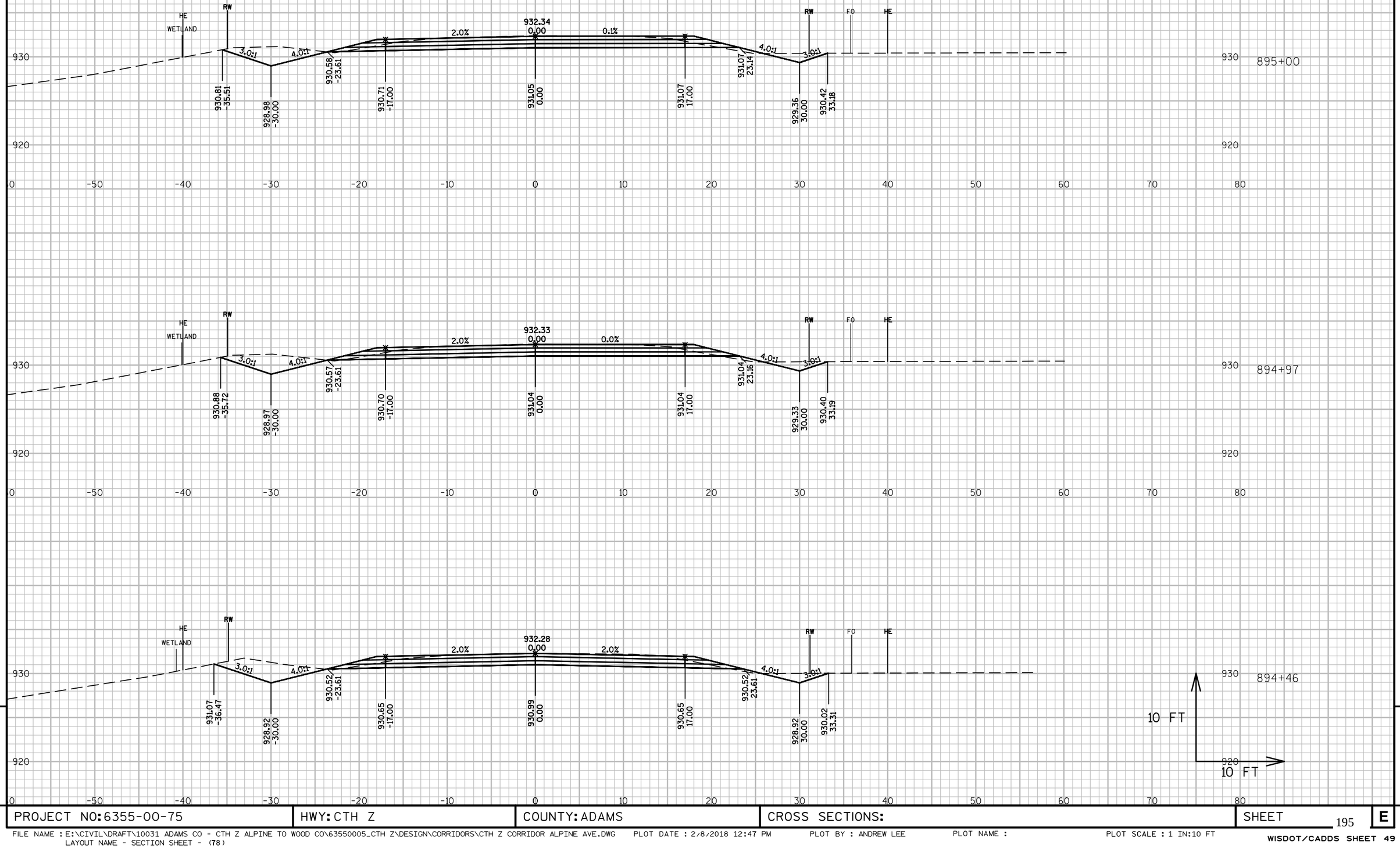
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 194	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR ALPINE AVE.DWG PLOT DATE : 2/8/2018 12:47 PM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT
LAYOUT NAME - SECTION SHEET - (77)

WISDOT/CADDS SHEET 49



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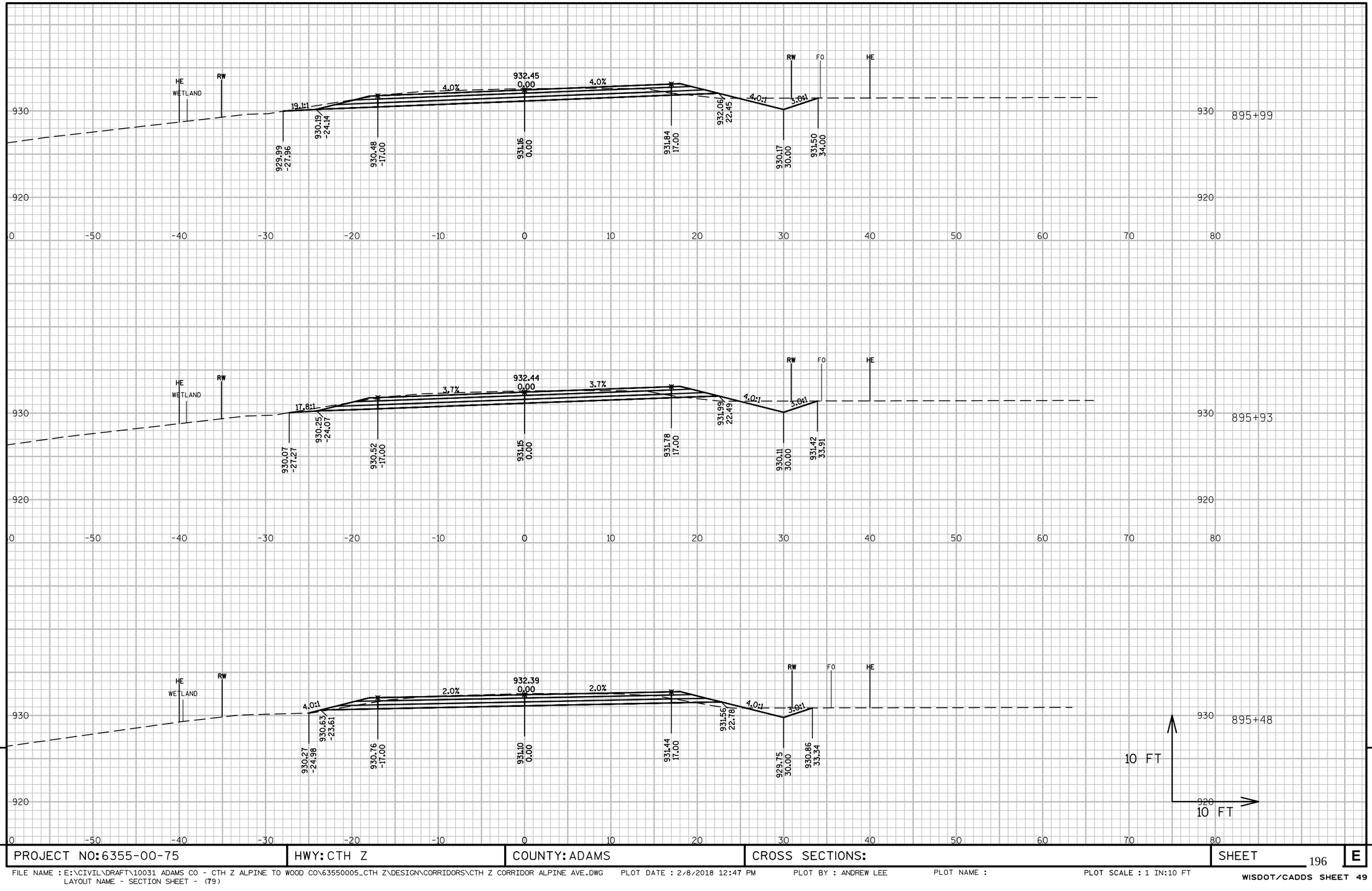
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 195	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR ALPINE AVE.DWG
LAYOUT NAME - SECTION SHEET - (78)

PLOT DATE : 2/8/2018 12:47 PM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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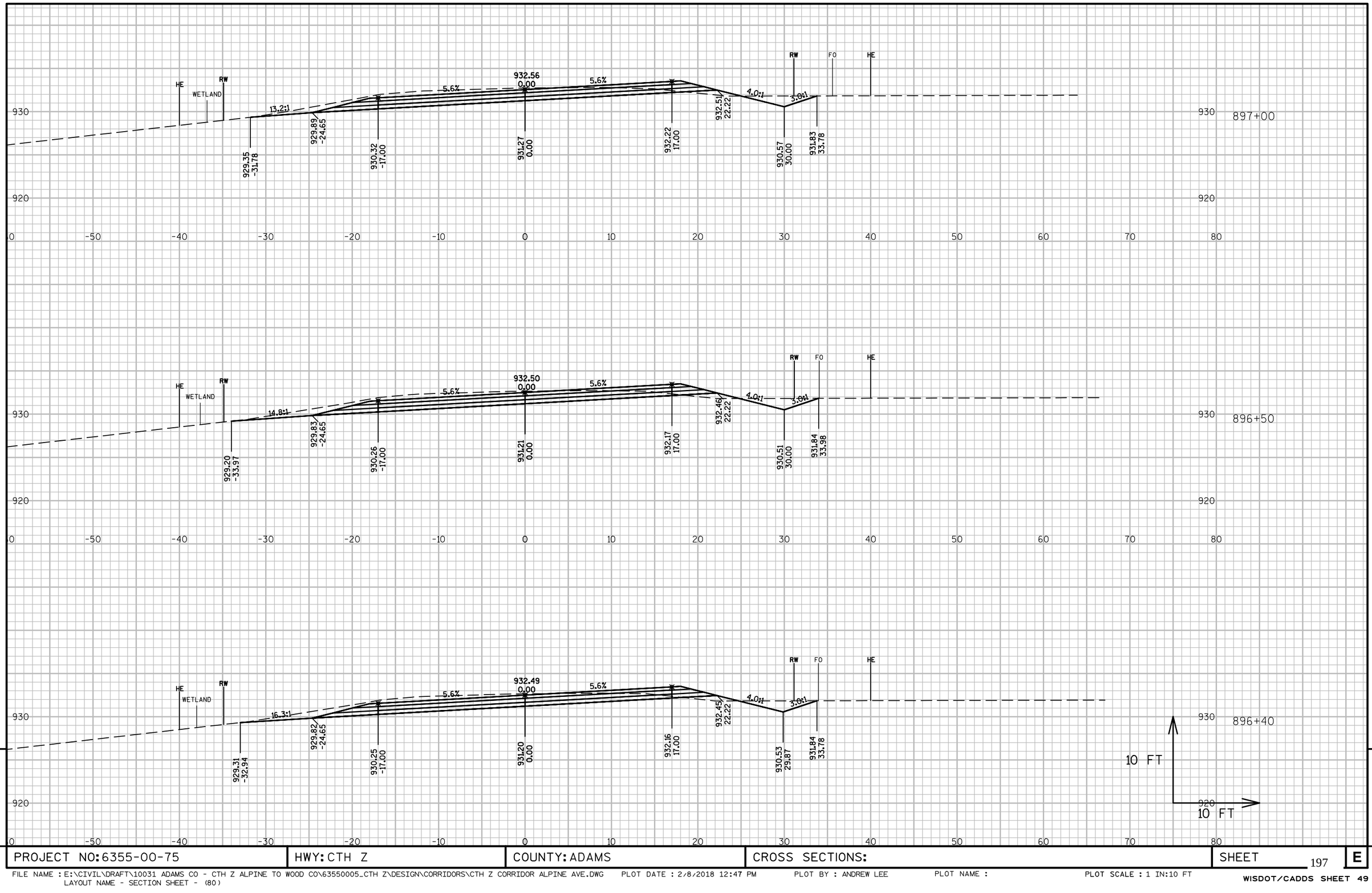
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 196	E

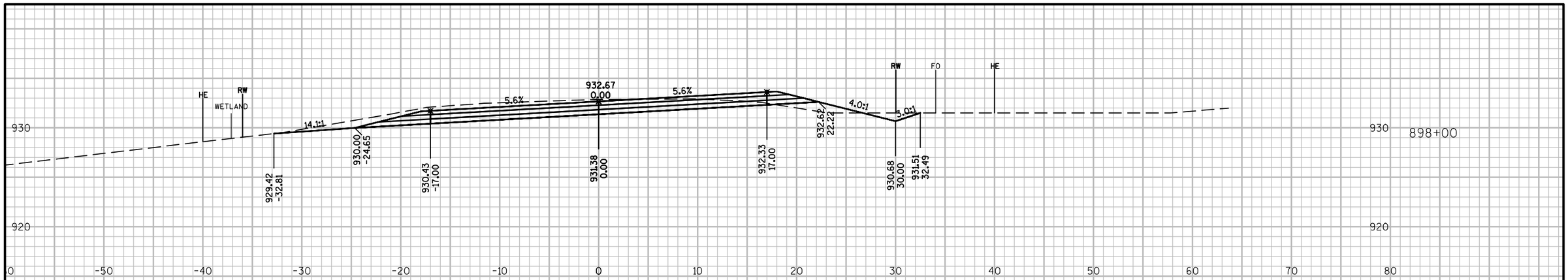
FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR ALPINE AVE.DWG PLOT DATE : 2/8/2018 12:47 PM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT
LAYOUT NAME - SECTION SHEET - (79)

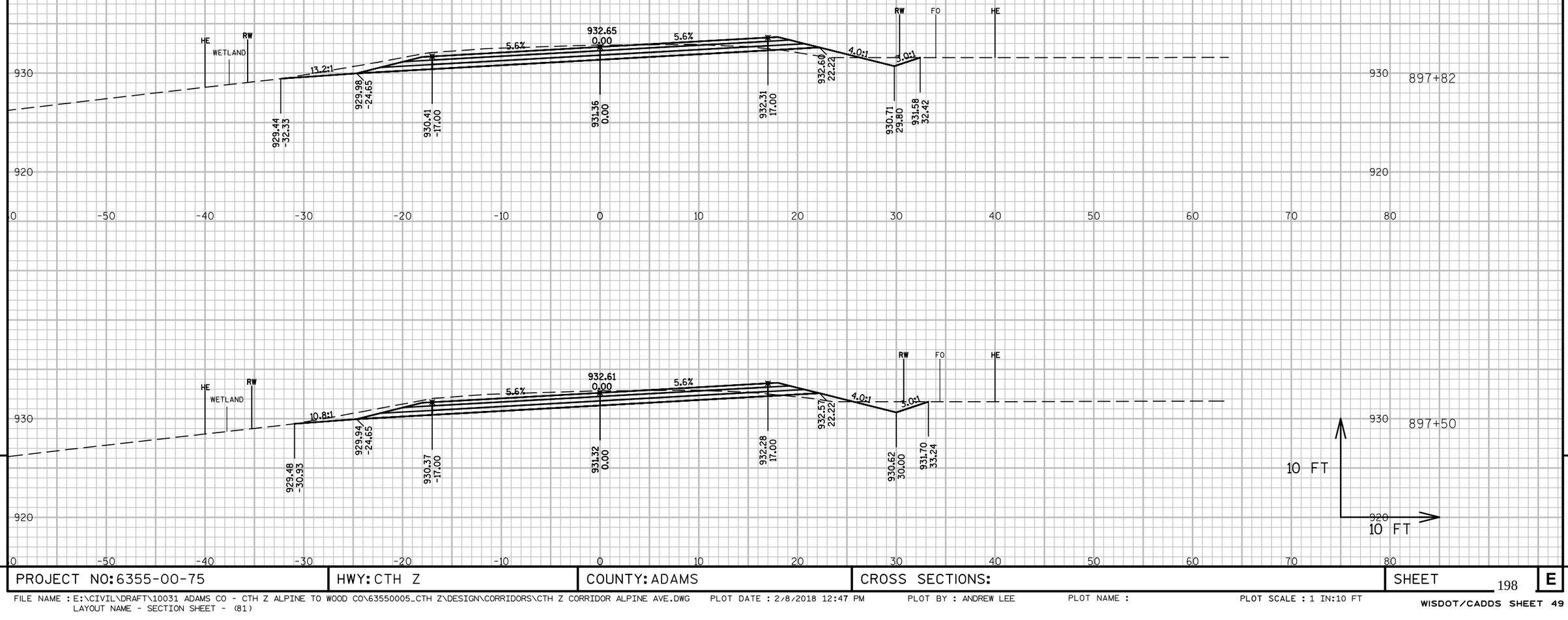
WISDOT/CADDS SHEET 49



PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 197	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR ALPINE AVE.DWG PLOT DATE : 2/8/2018 12:47 PM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT
LAYOUT NAME - SECTION SHEET - (80)
WISDOT/CADDS SHEET 49





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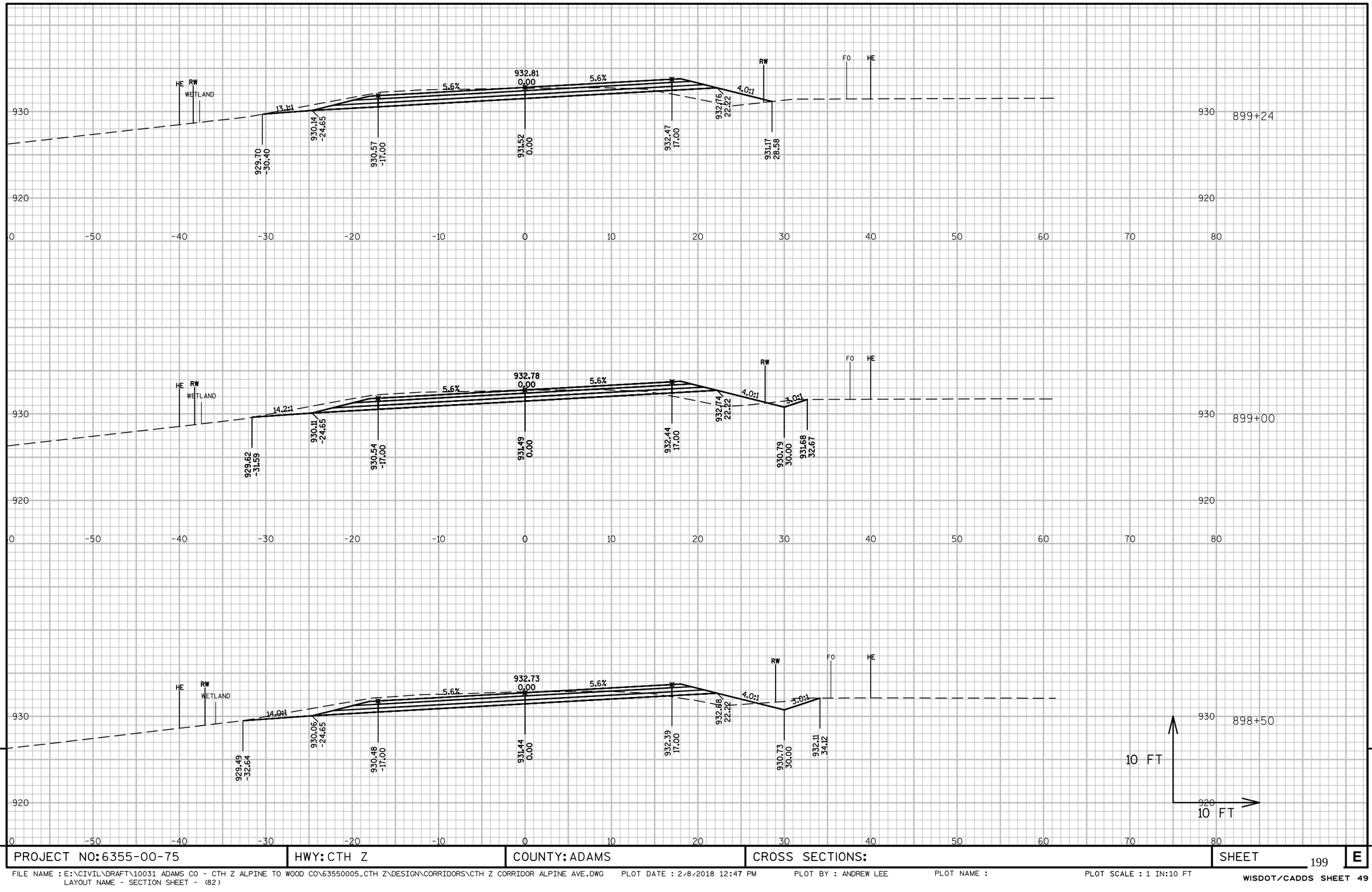
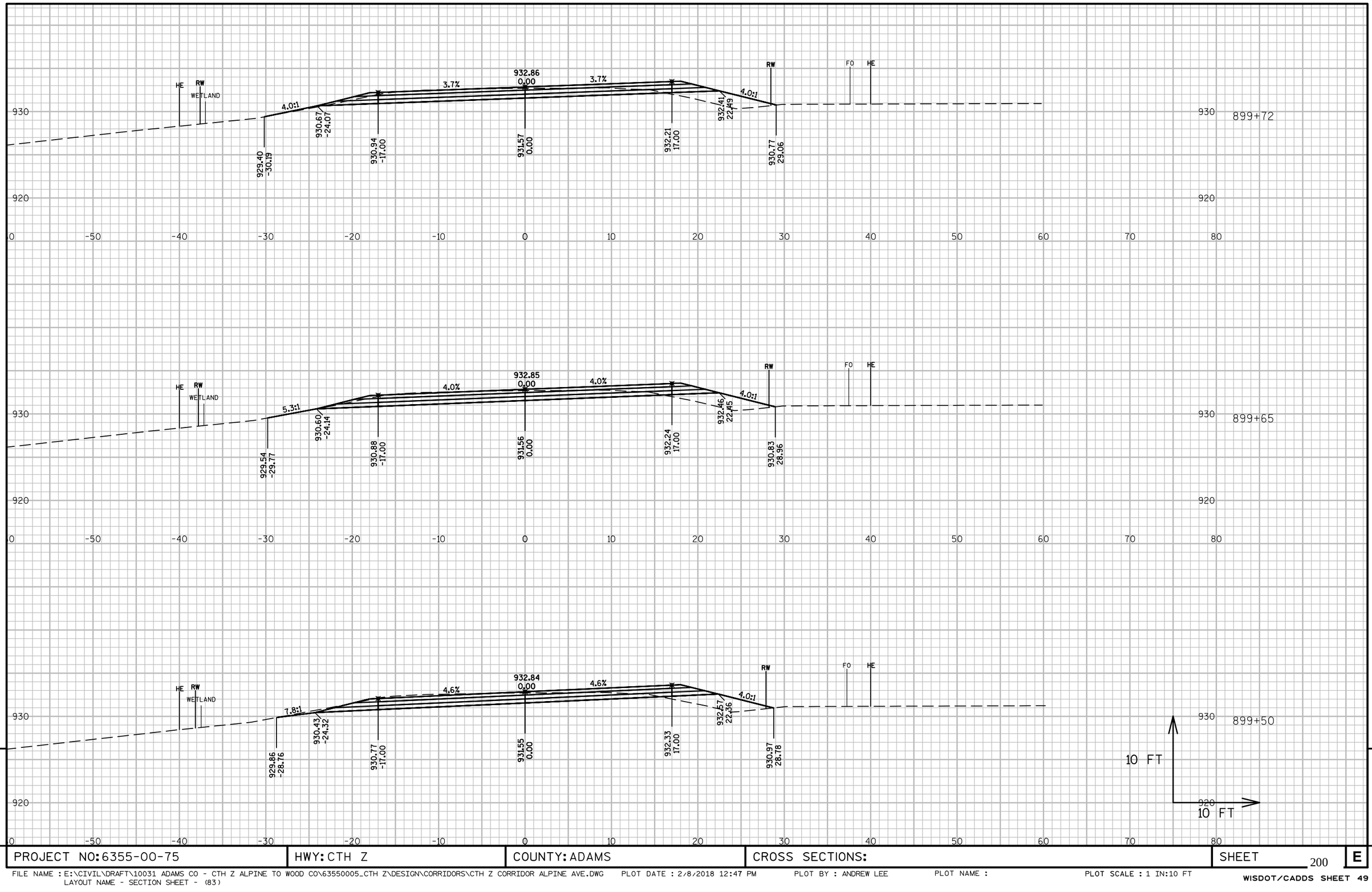
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 198	E



PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 199	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR ALPINE AVE.DWG
LAYOUT NAME - SECTION SHEET - (82)
PLOT DATE : 2/8/2018 12:47 PM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

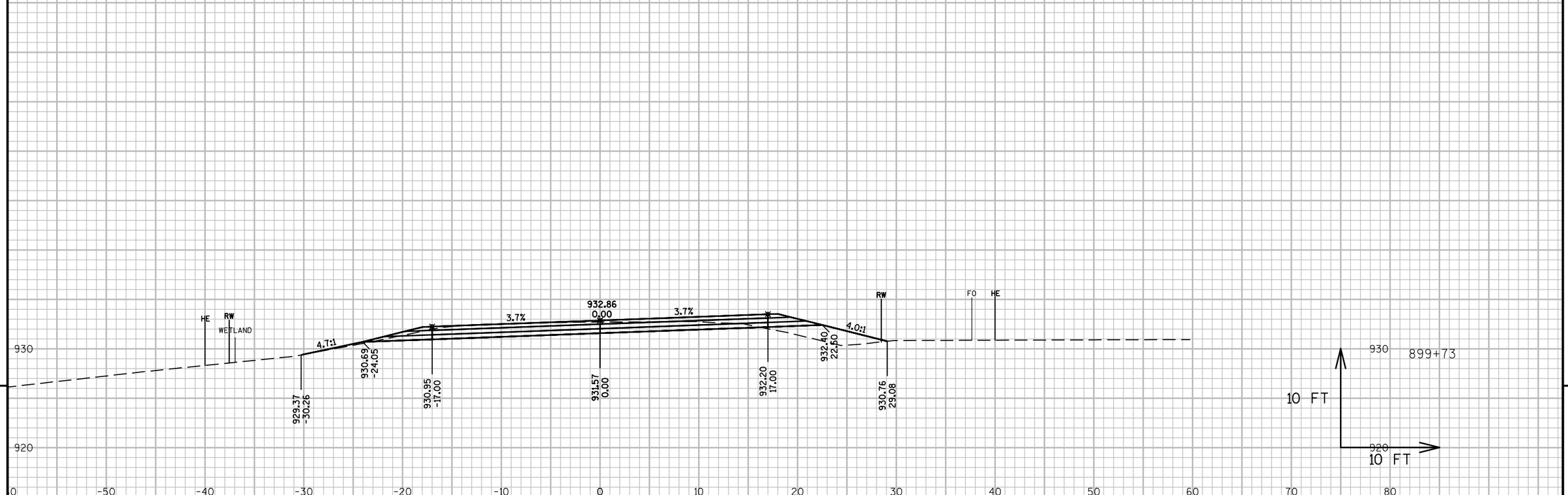
WISDOT/CADDS SHEET 49



PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 200	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR ALPINE AVE.DWG PLOT DATE : 2/8/2018 12:47 PM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT
LAYOUT NAME - SECTION SHEET - (83)

WISDOT/CADDS SHEET 49



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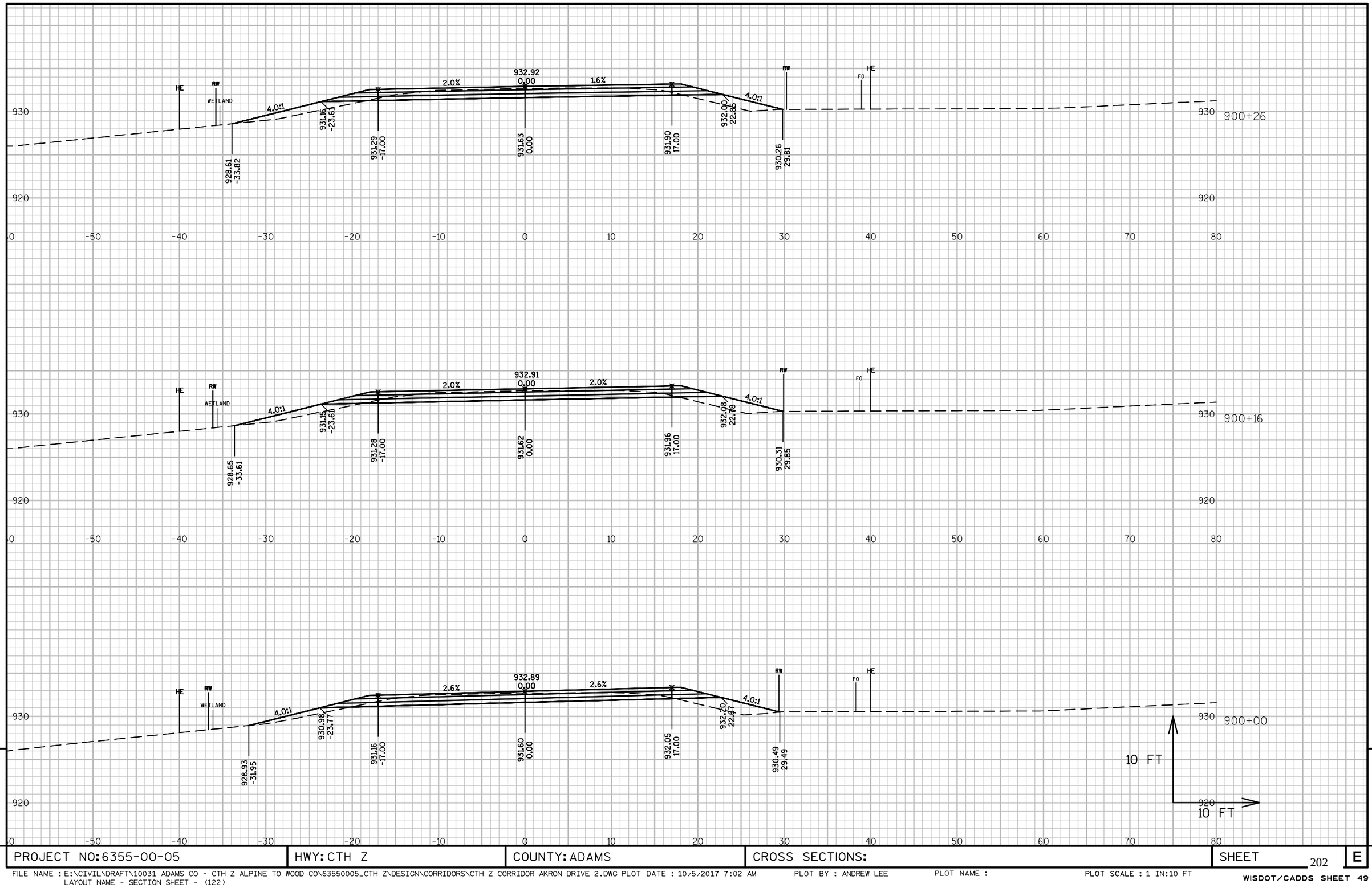
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 201	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR ALPINE AVE.DWG PLOT DATE : 2/8/2018 12:47 PM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT
LAYOUT NAME - SECTION SHEET - (84)

WISDOT/CADDS SHEET 49



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PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 202	E

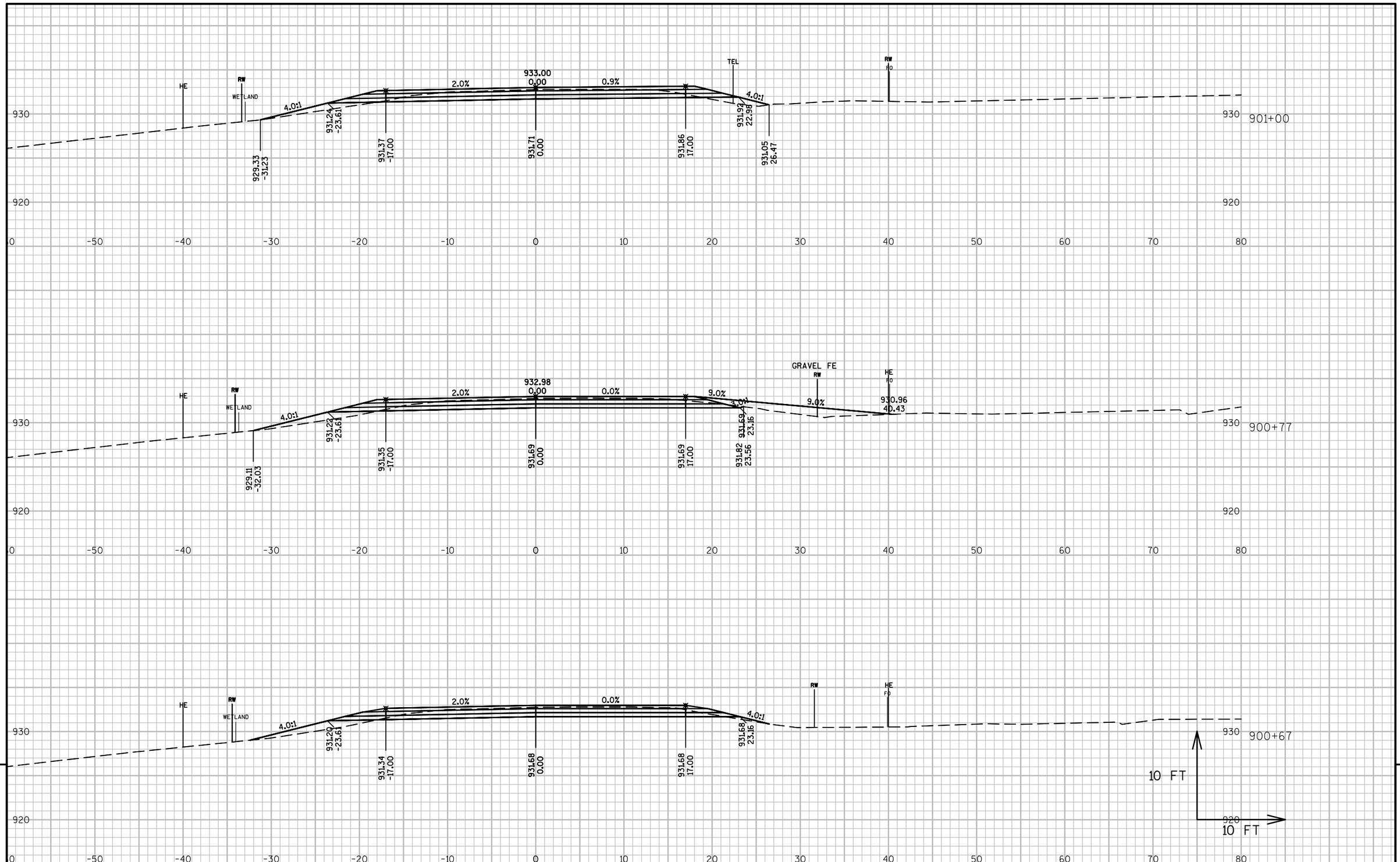
FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:02 AM
LAYOUT NAME - SECTION SHEET - (122)

PLOT BY : ANDREW LEE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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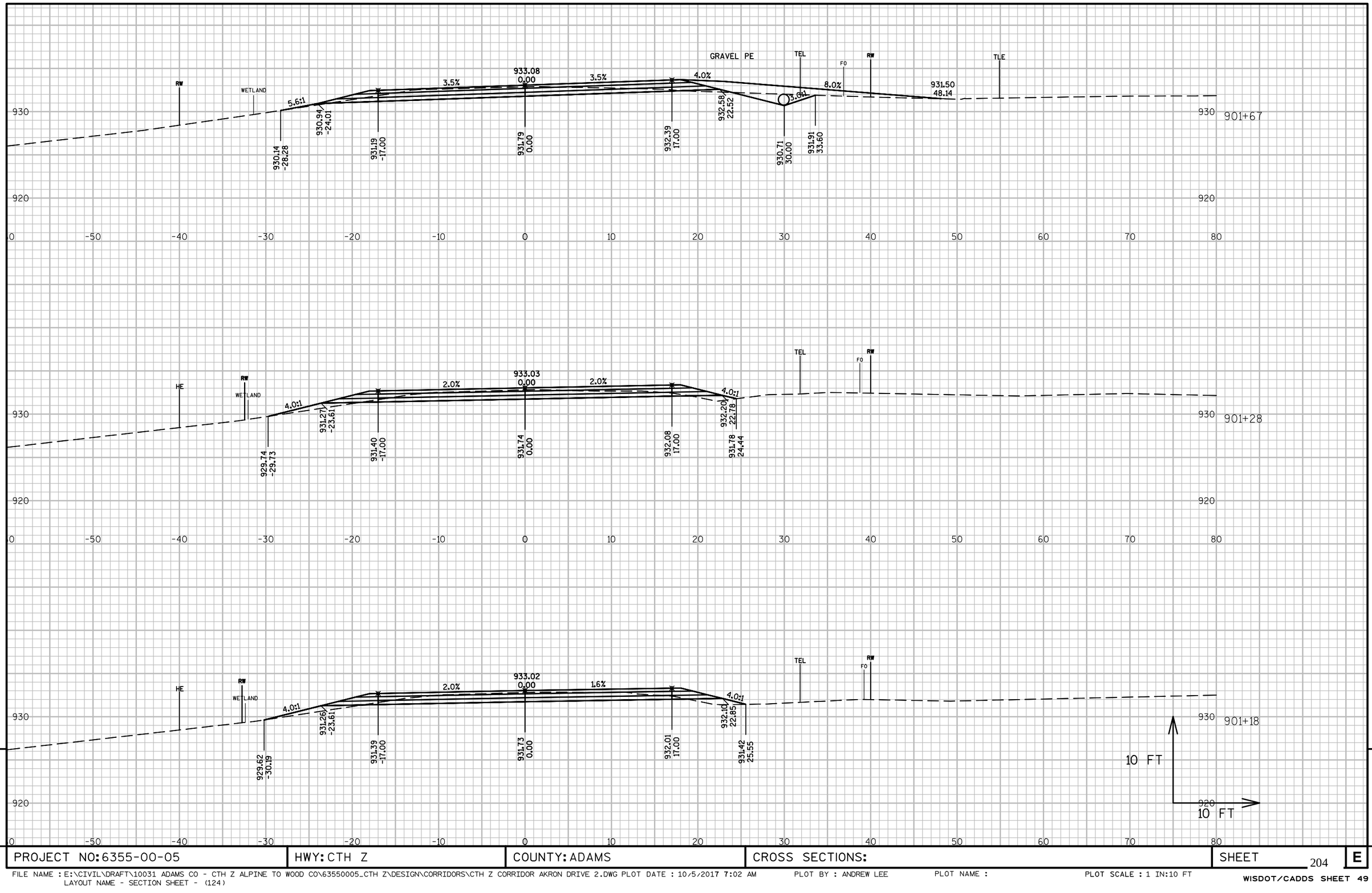
PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 203	E

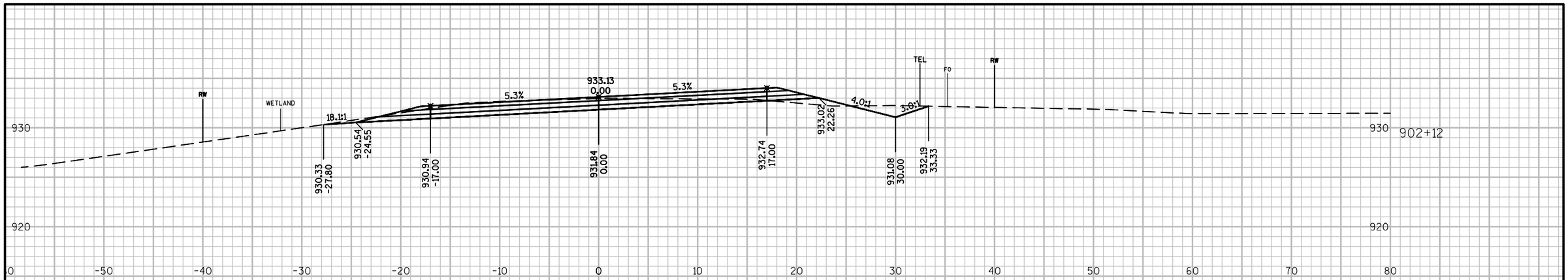


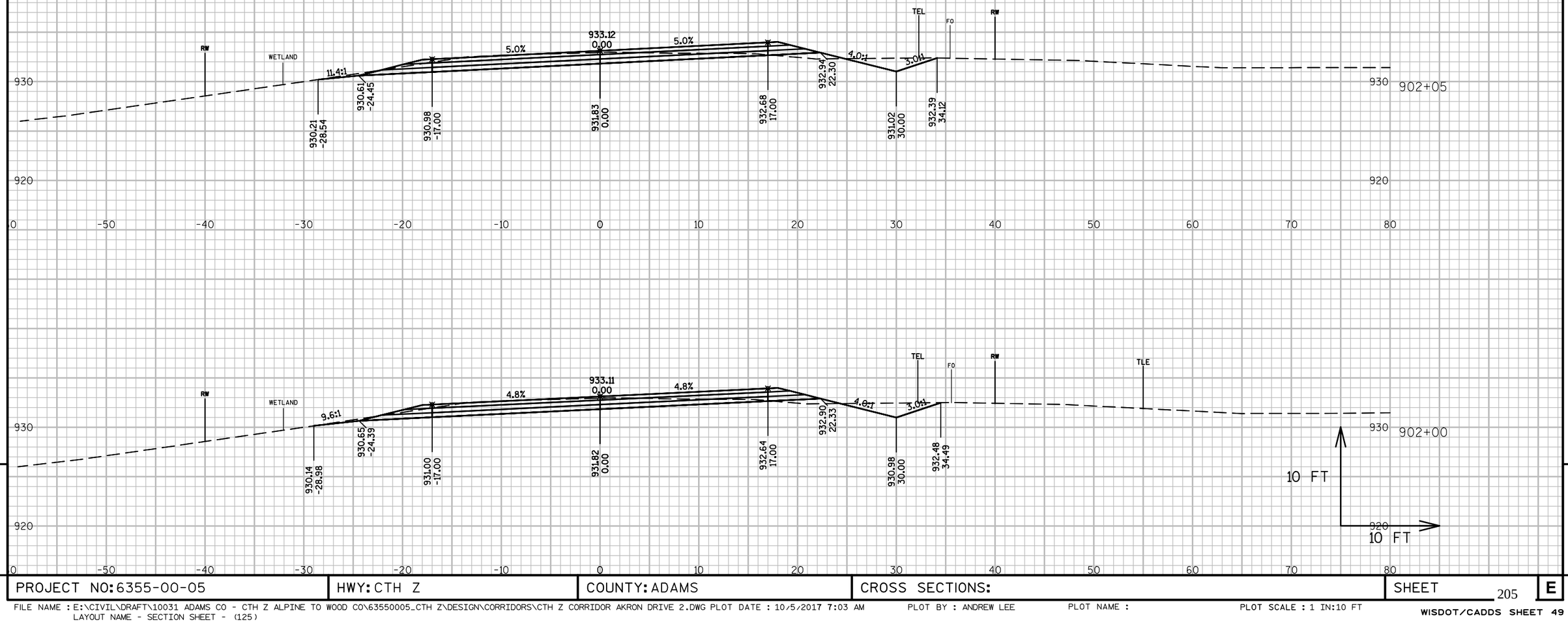
PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 204	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:02 AM
LAYOUT NAME - SECTION SHEET - (124)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49





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PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 205	E

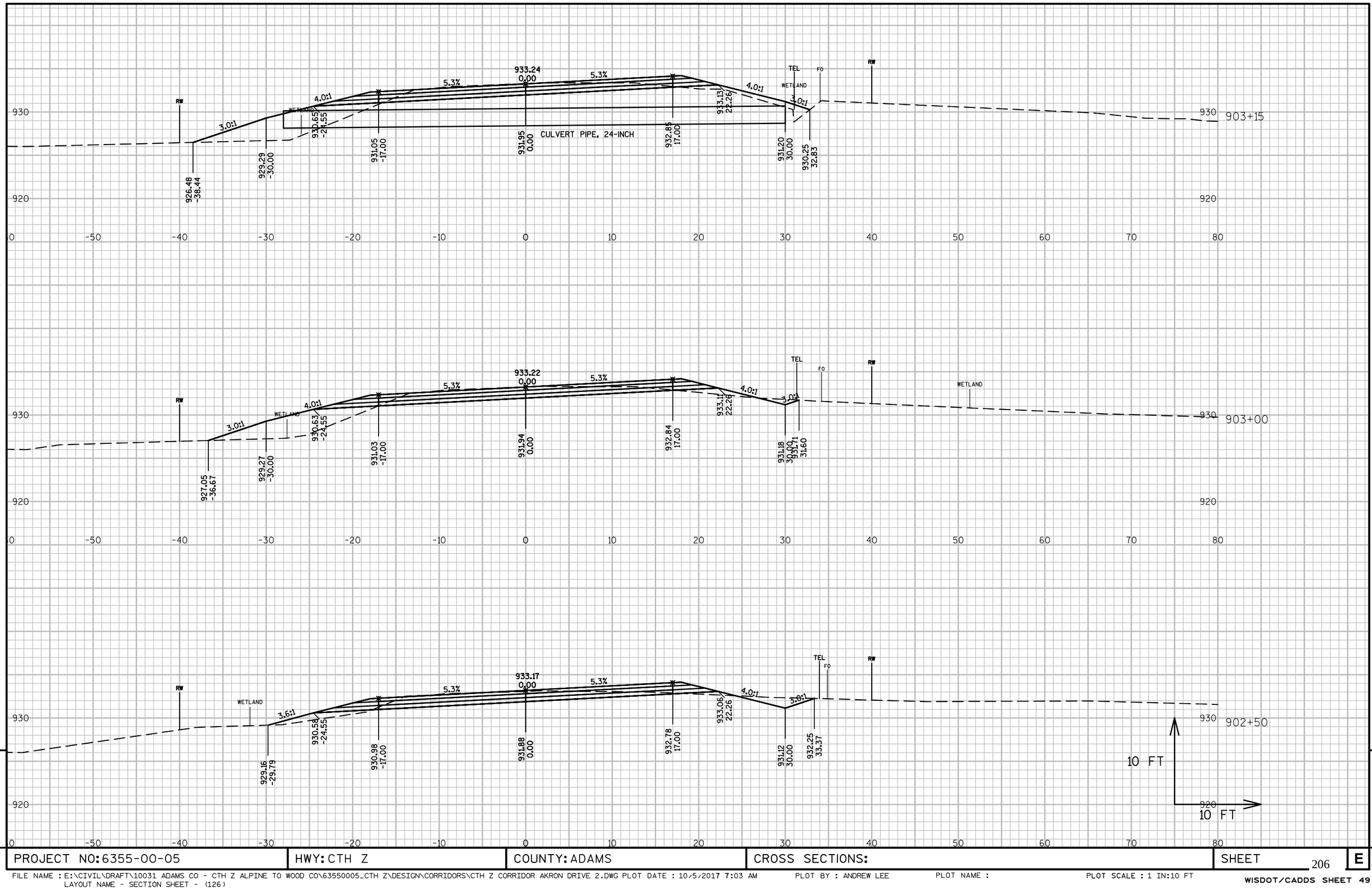
FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:03 AM
LAYOUT NAME - SECTION SHEET - (125)

PLOT BY : ANDREW LEE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

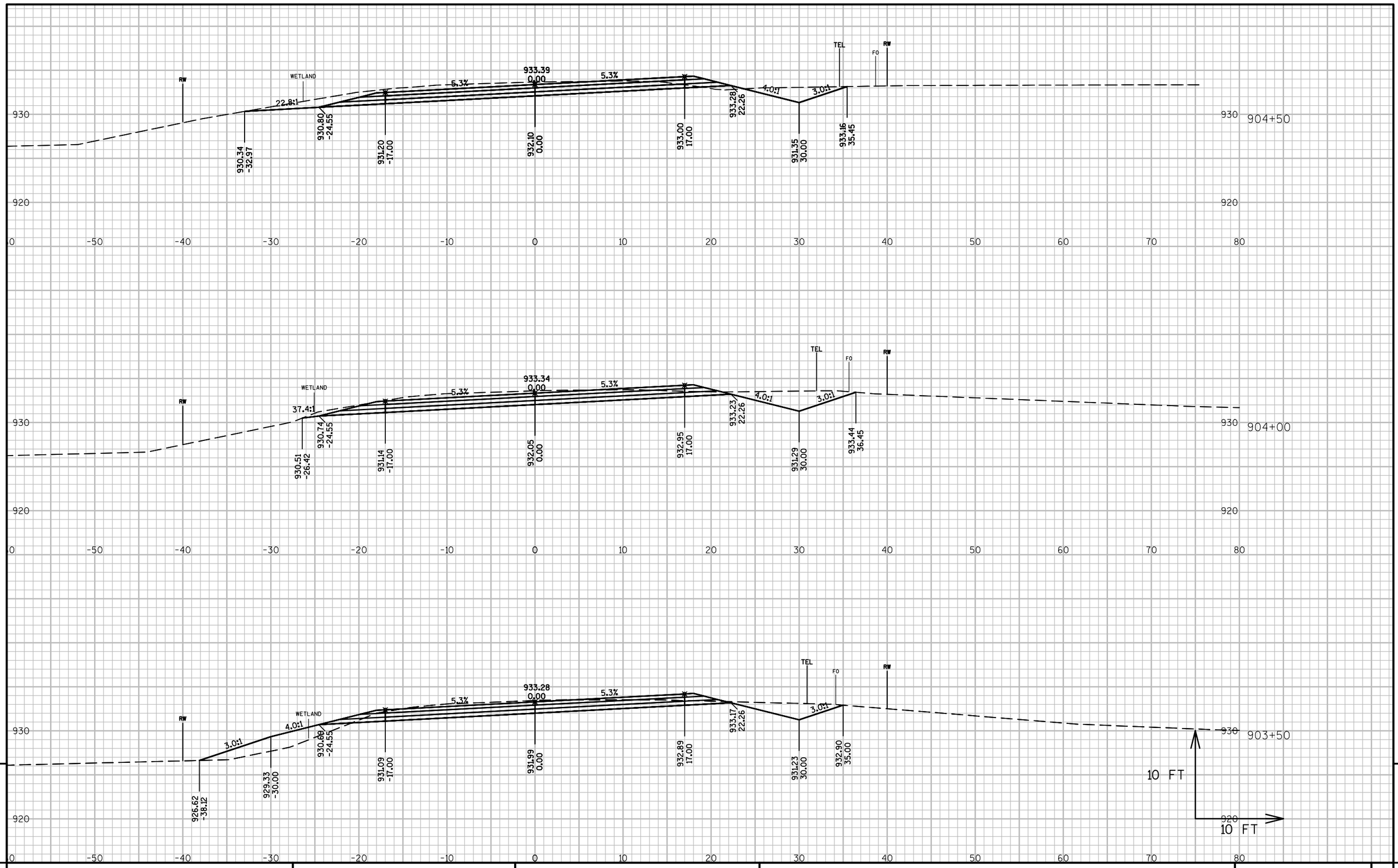


PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 206	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:03 AM
LAYOUT NAME - SECTION SHEET - (126)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 207	E

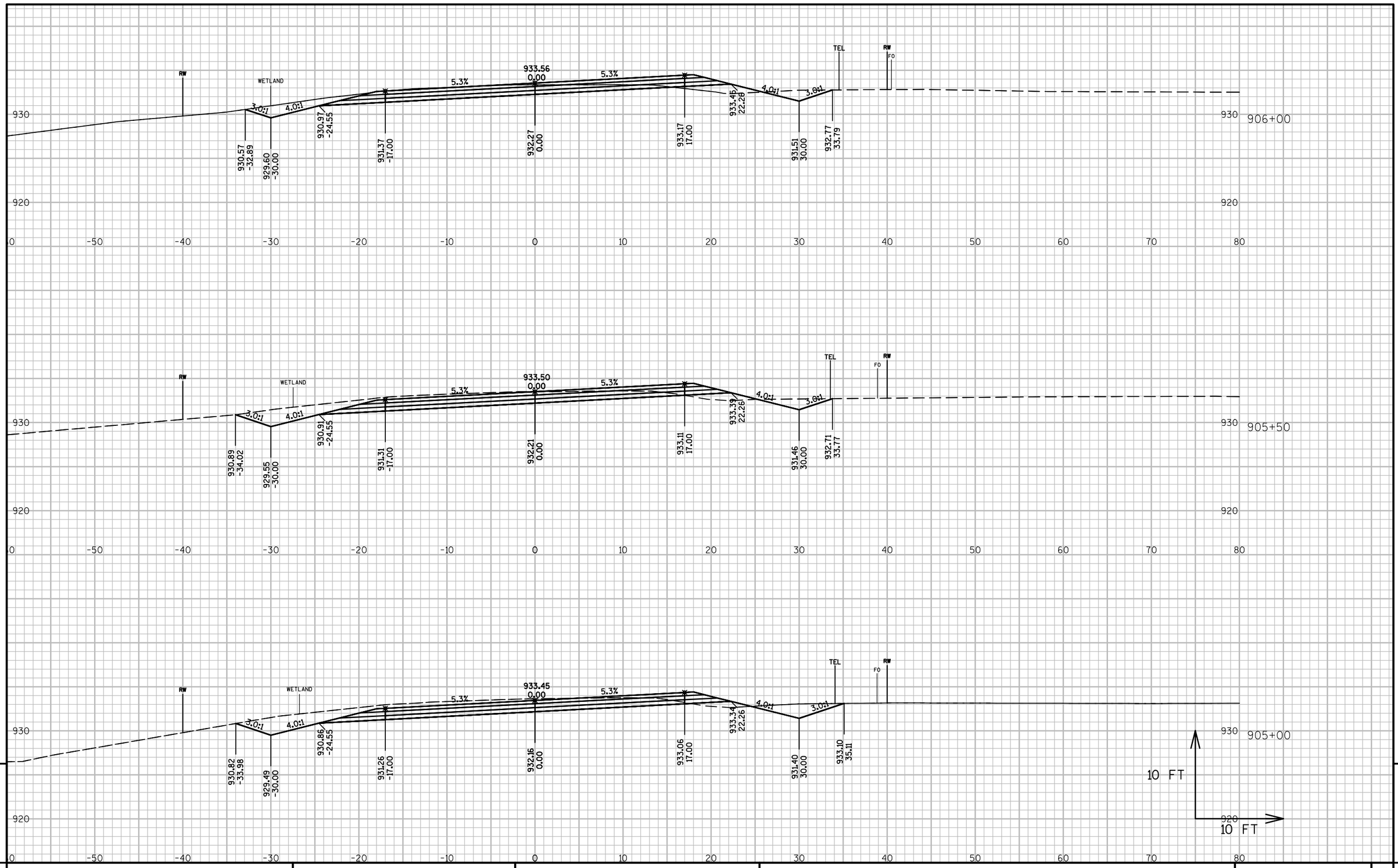
FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:03 AM
LAYOUT NAME - SECTION SHEET - (127)

PLOT BY : ANDREW LEE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

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PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 208	E

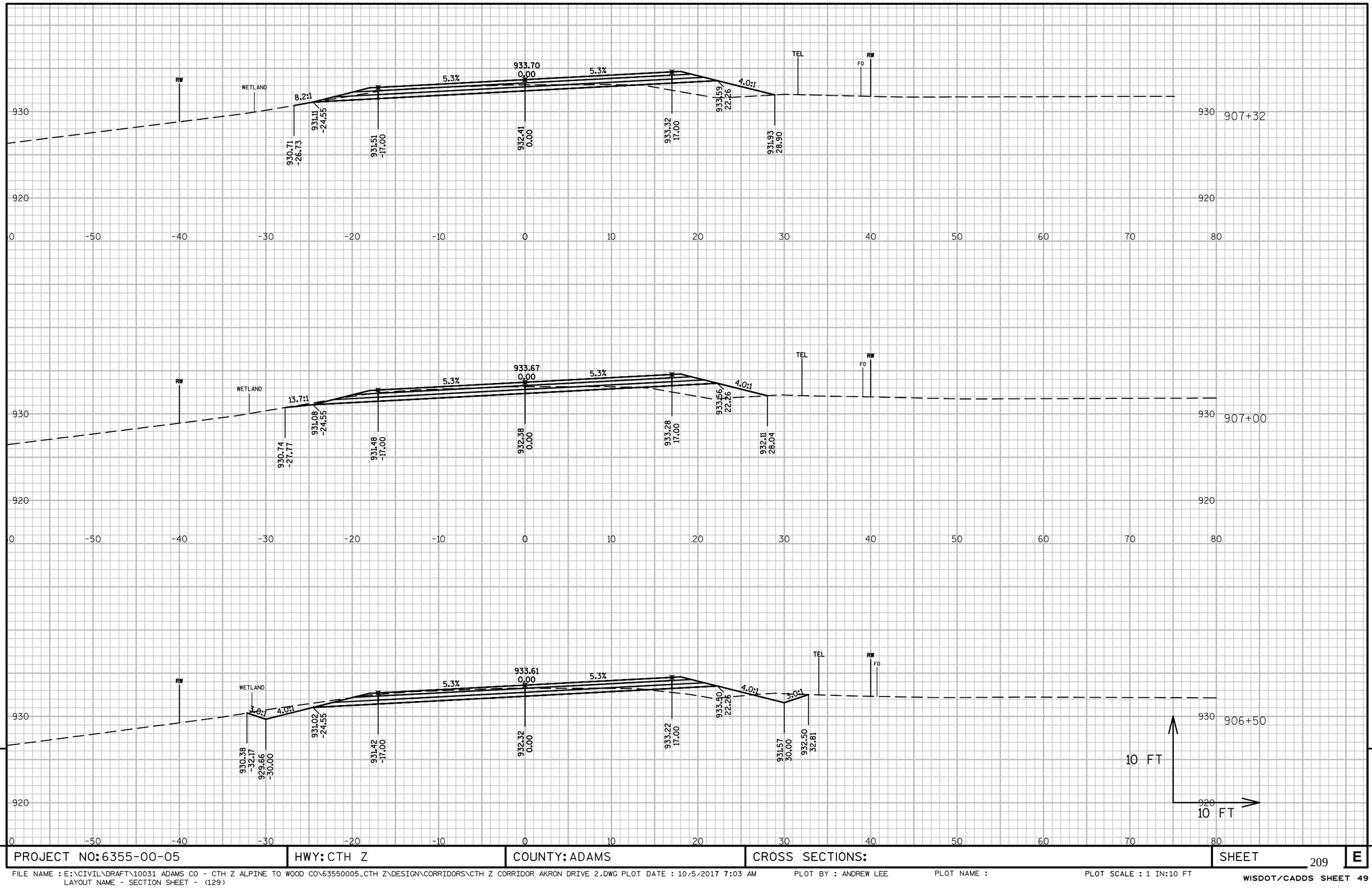
FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:03 AM
LAYOUT NAME - SECTION SHEET - (128)

PLOT BY : ANDREW LEE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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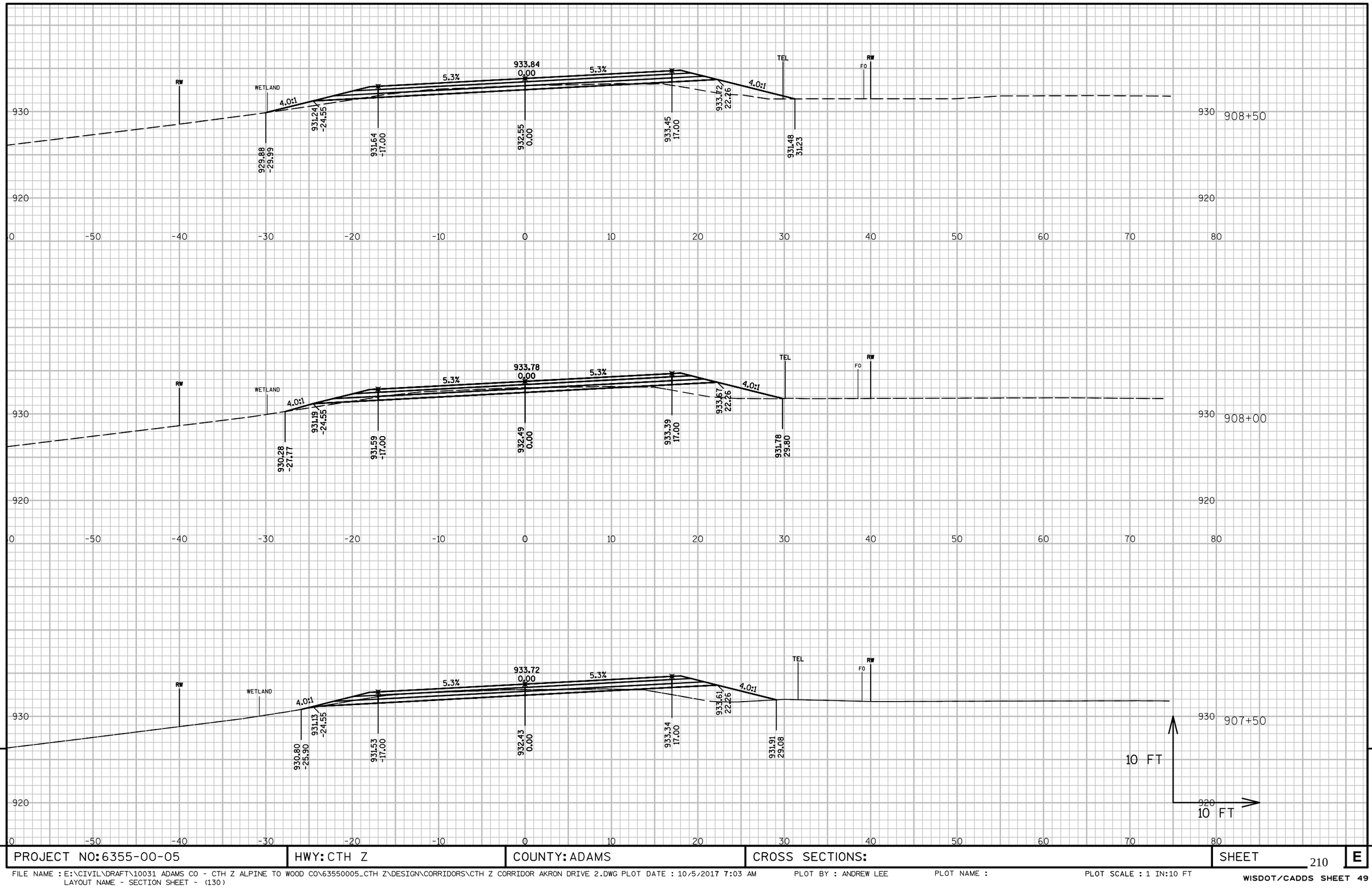
PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 209	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:03 AM
LAYOUT NAME - SECTION SHEET - (129)
PLOT BY : ANDREW LEE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49

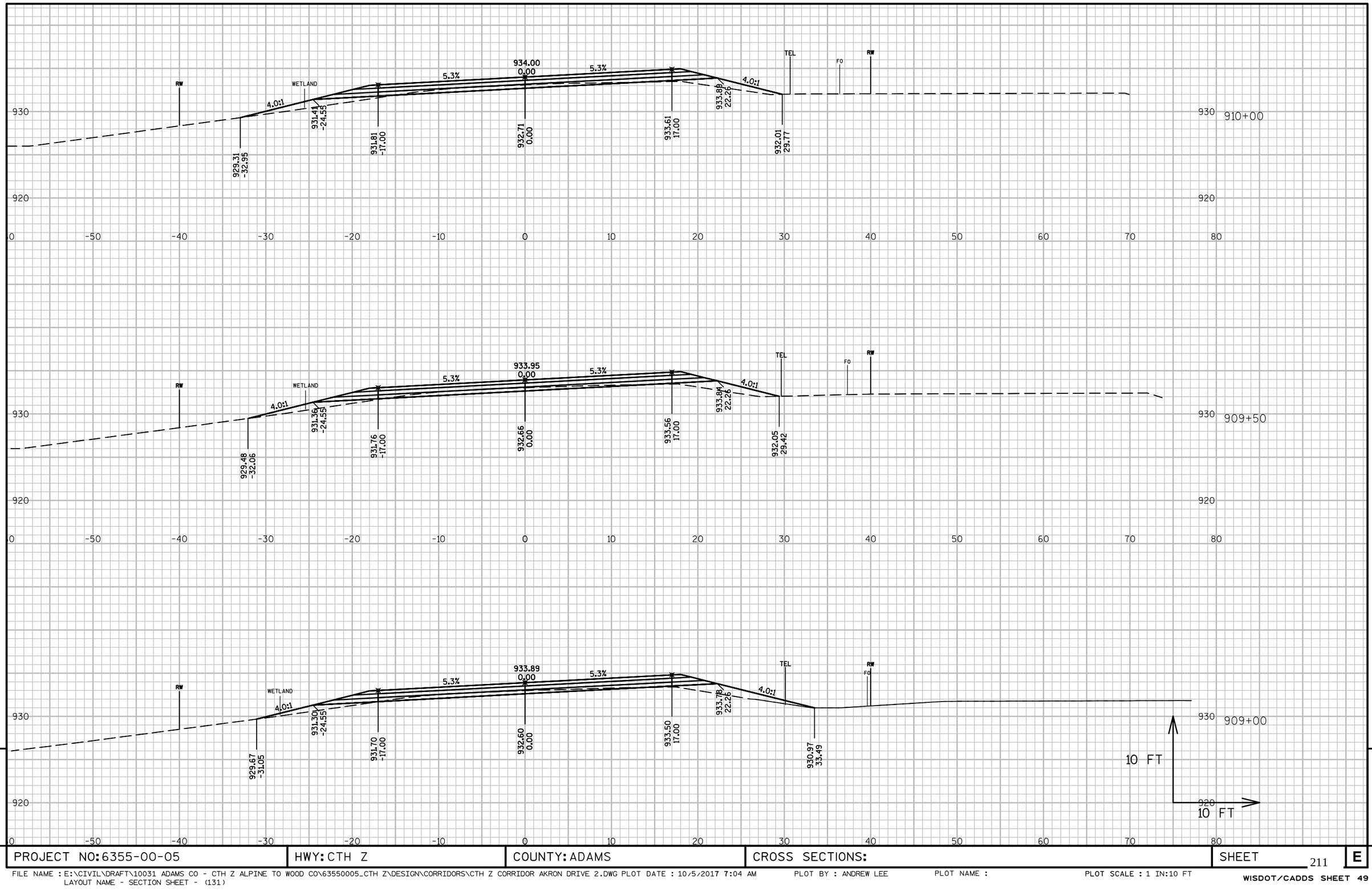


PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 210	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:03 AM
LAYOUT NAME - SECTION SHEET - (130)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 211	E

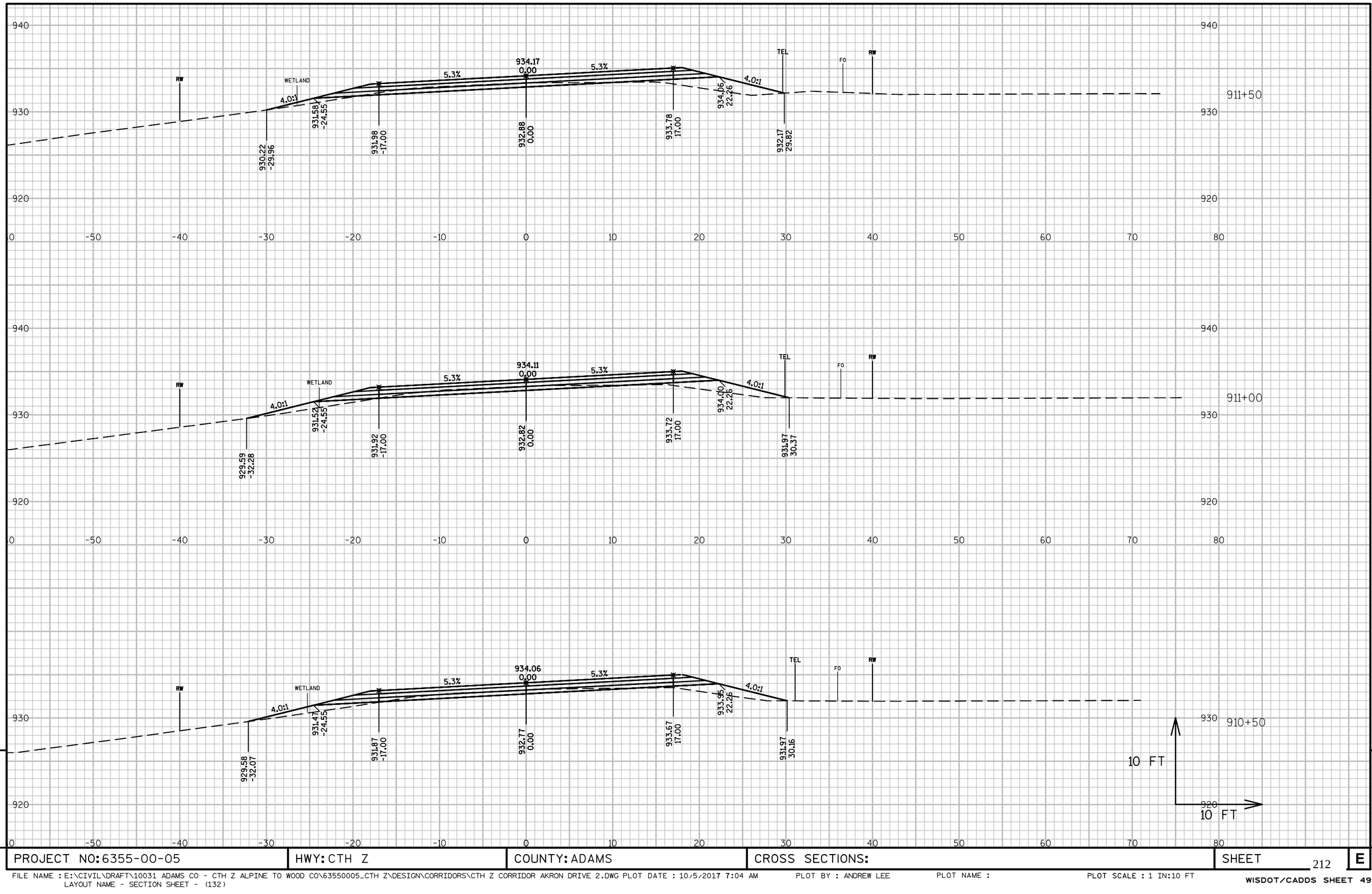
FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:04 AM
LAYOUT NAME - SECTION SHEET - (131)

PLOT BY : ANDREW LEE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

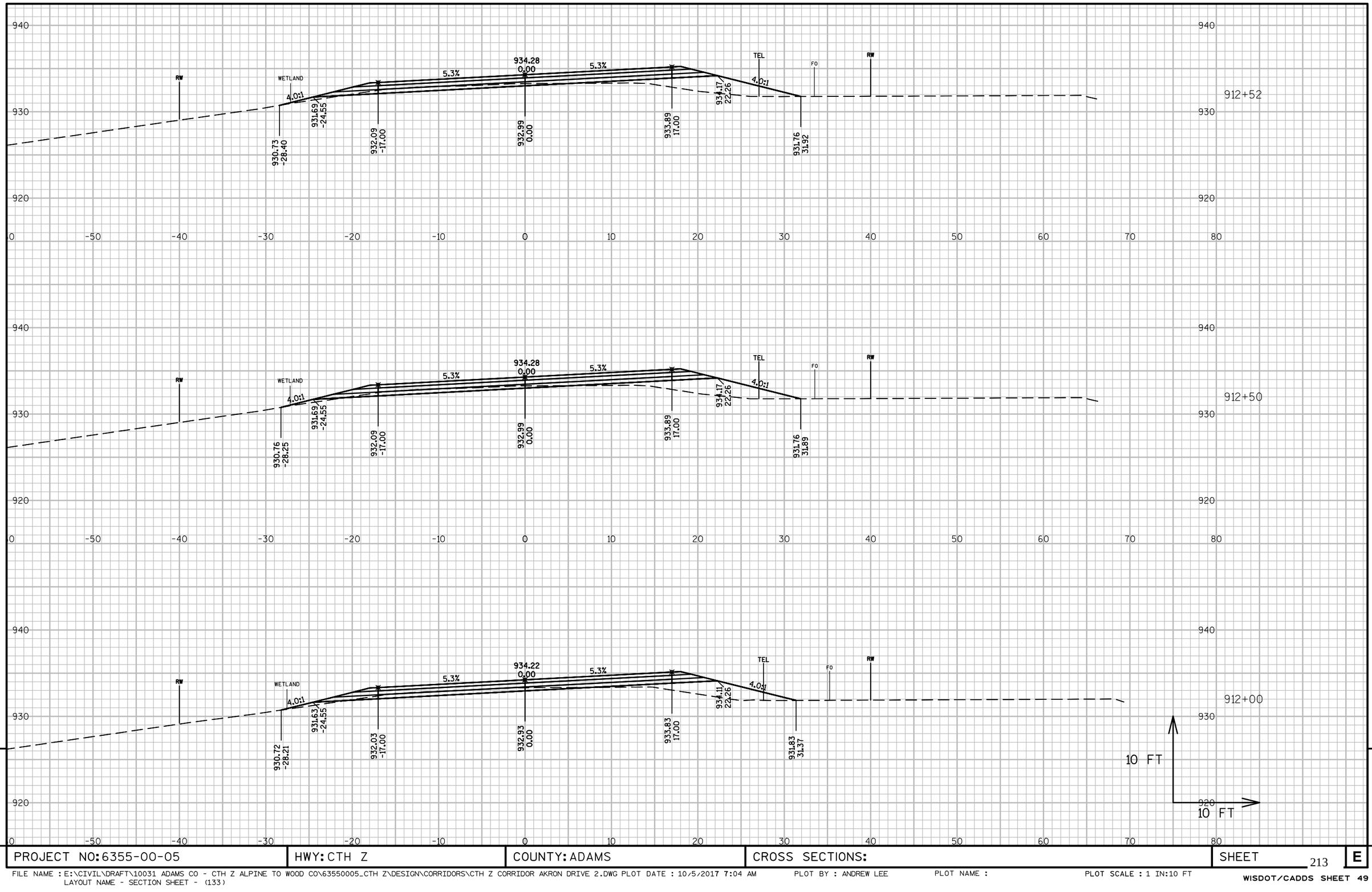


PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 212	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:04 AM
LAYOUT NAME - SECTION SHEET - (132)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

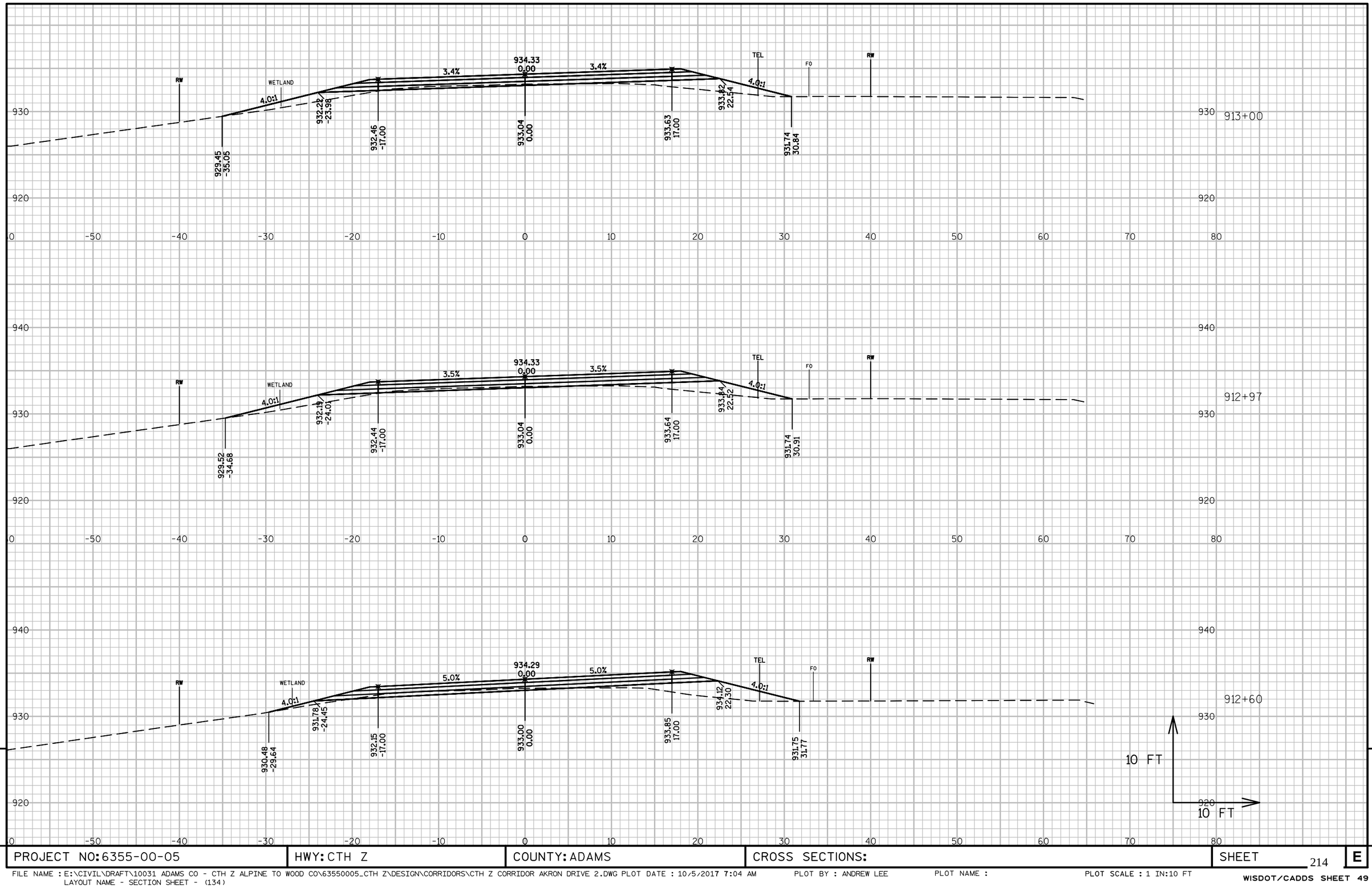


PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 213	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:04 AM
LAYOUT NAME - SECTION SHEET - (133)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

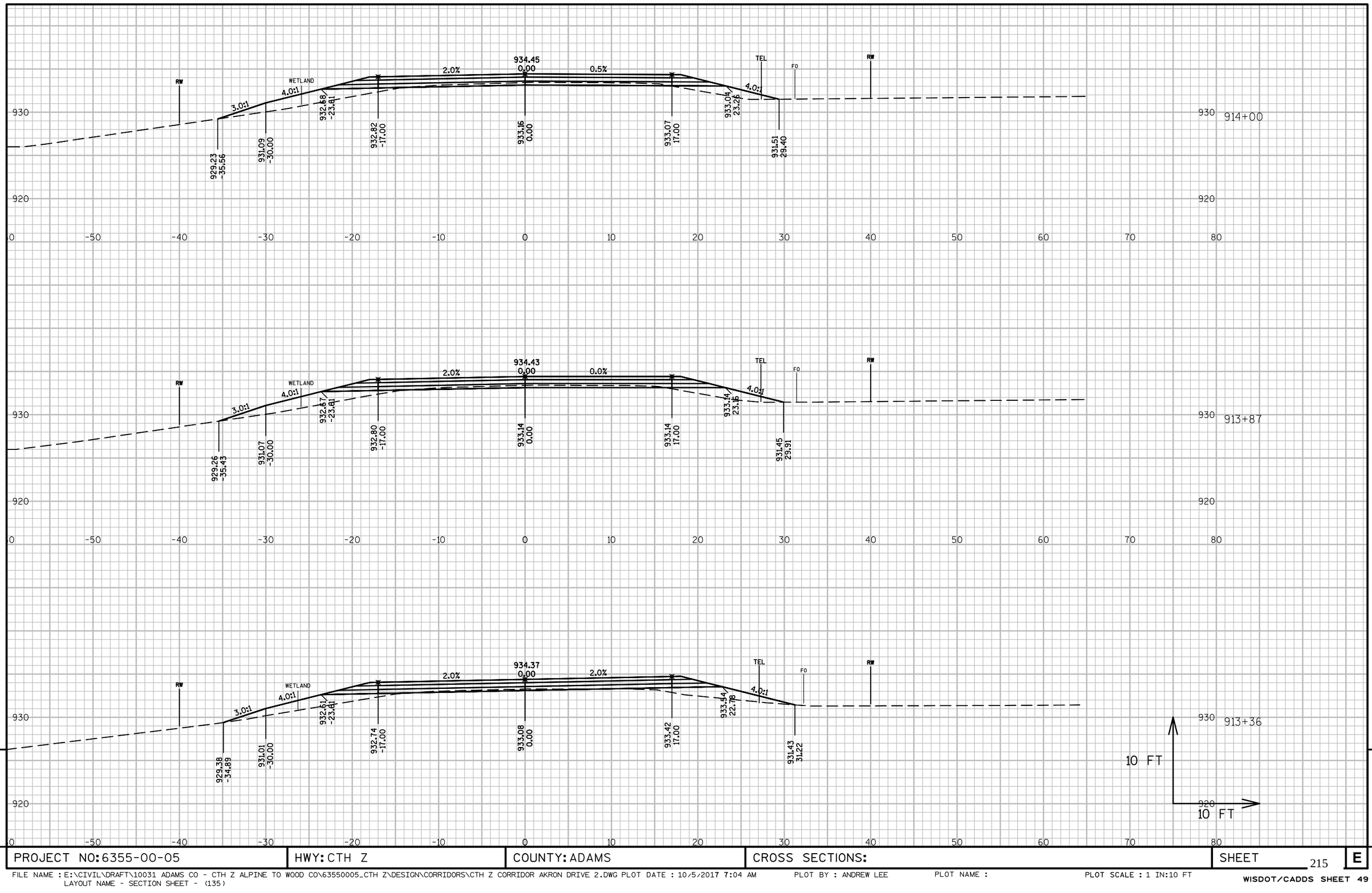


PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 214	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:04 AM
LAYOUT NAME - SECTION SHEET - (134)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 215	E

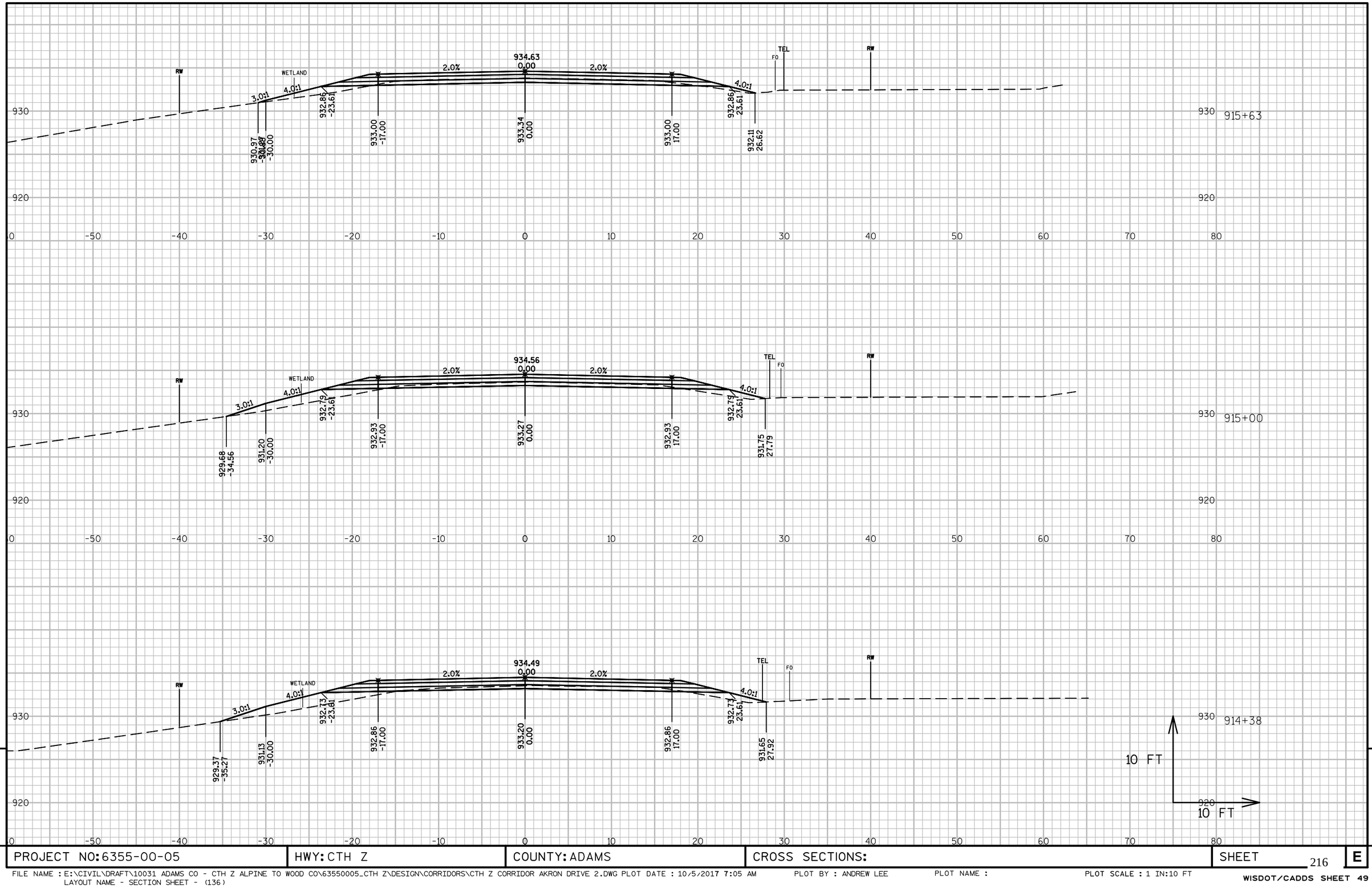
FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:04 AM
LAYOUT NAME - SECTION SHEET - (135)

PLOT BY : ANDREW LEE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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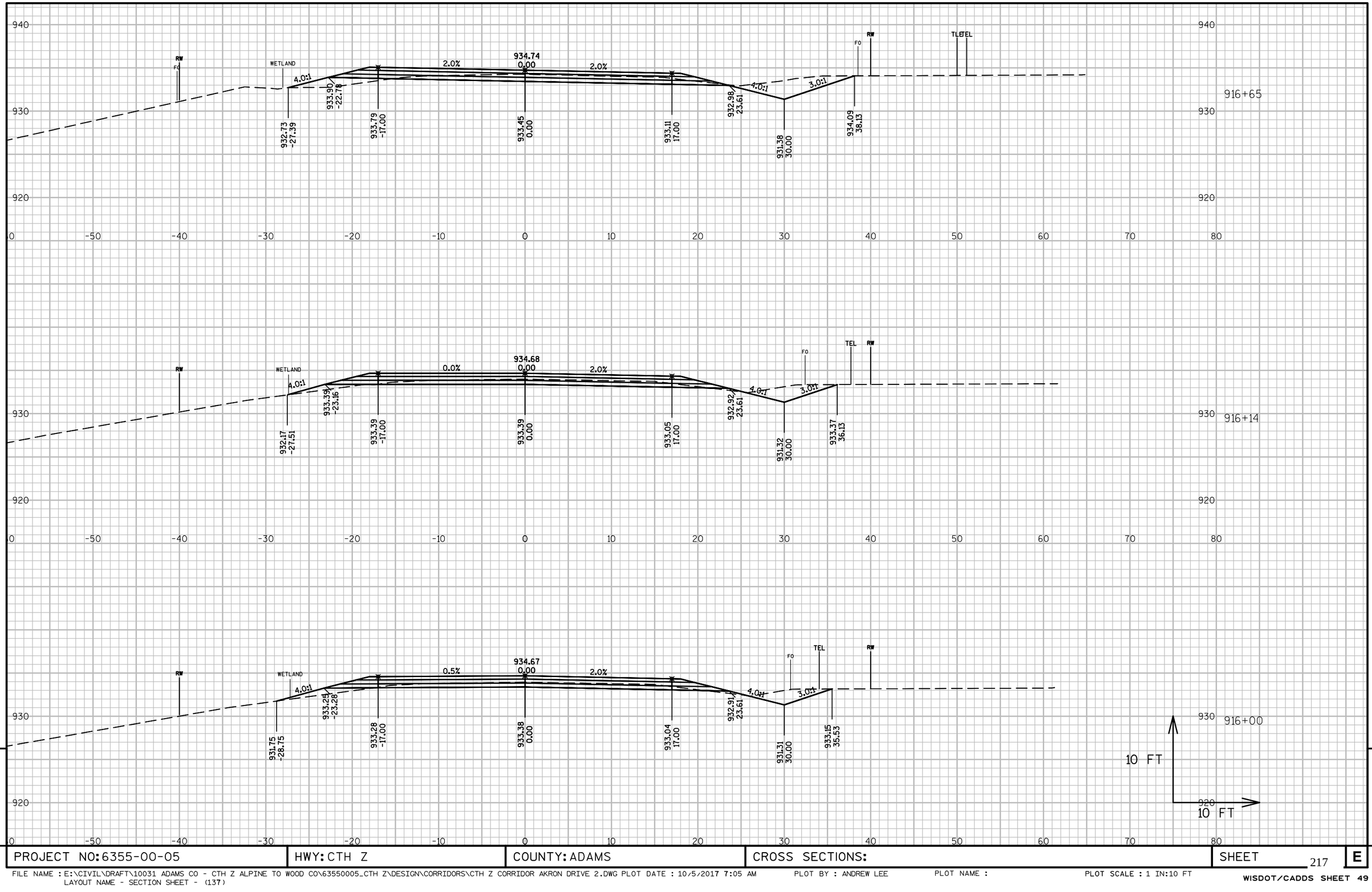
PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 216	E



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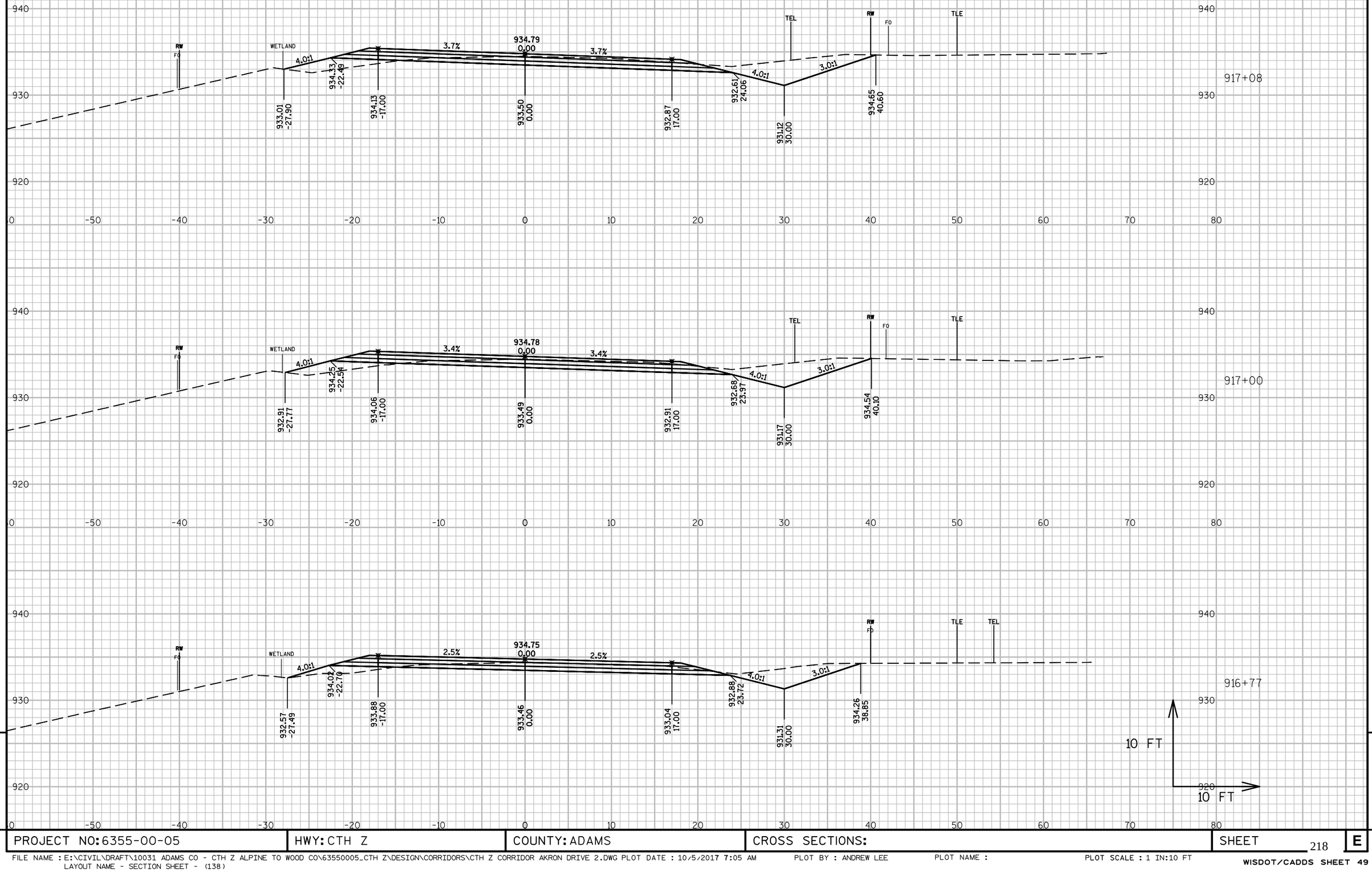
PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 217	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:05 AM
LAYOUT NAME - SECTION SHEET - (137)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

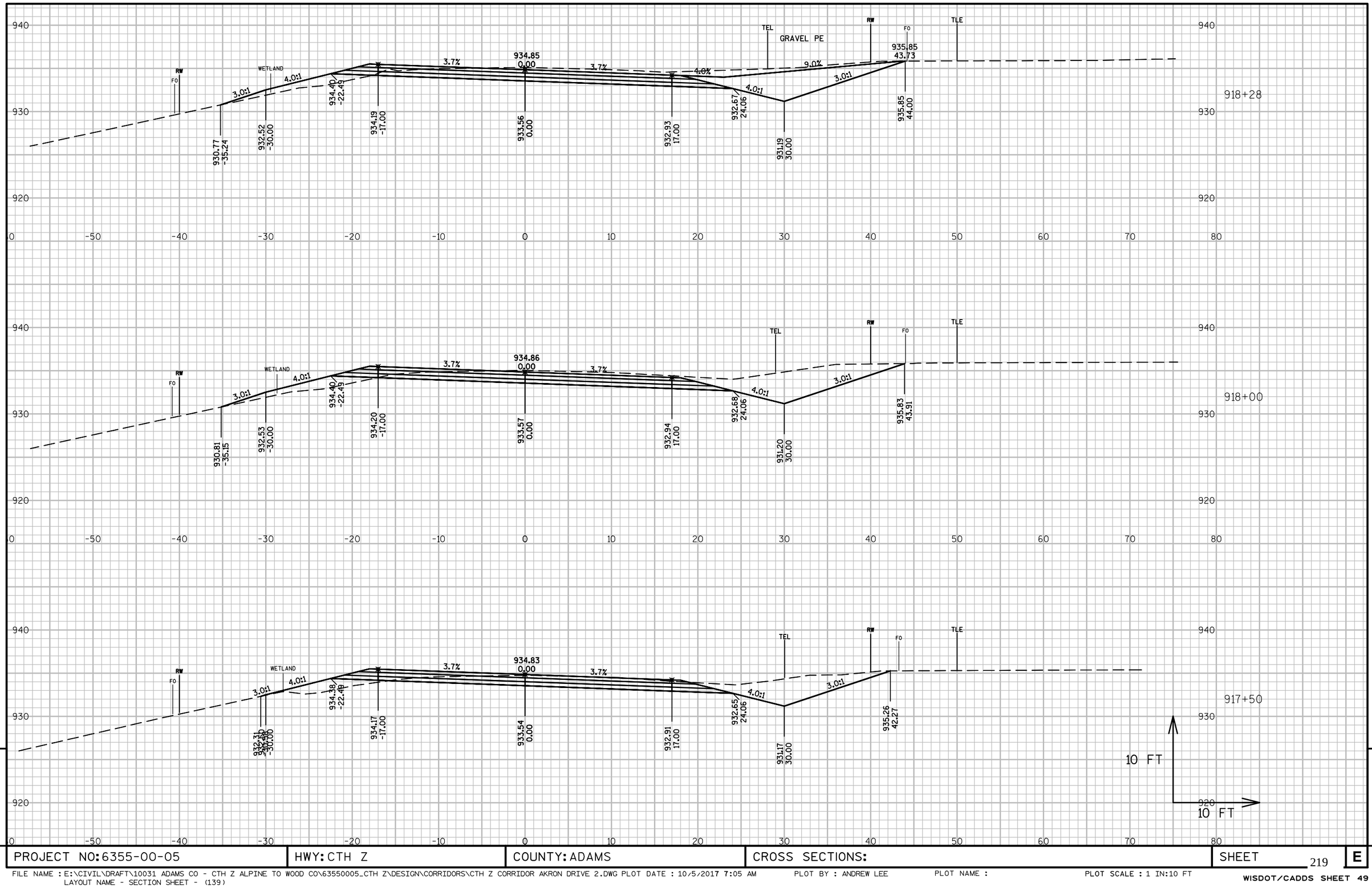


PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 218	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:05 AM
LAYOUT NAME - SECTION SHEET - (138)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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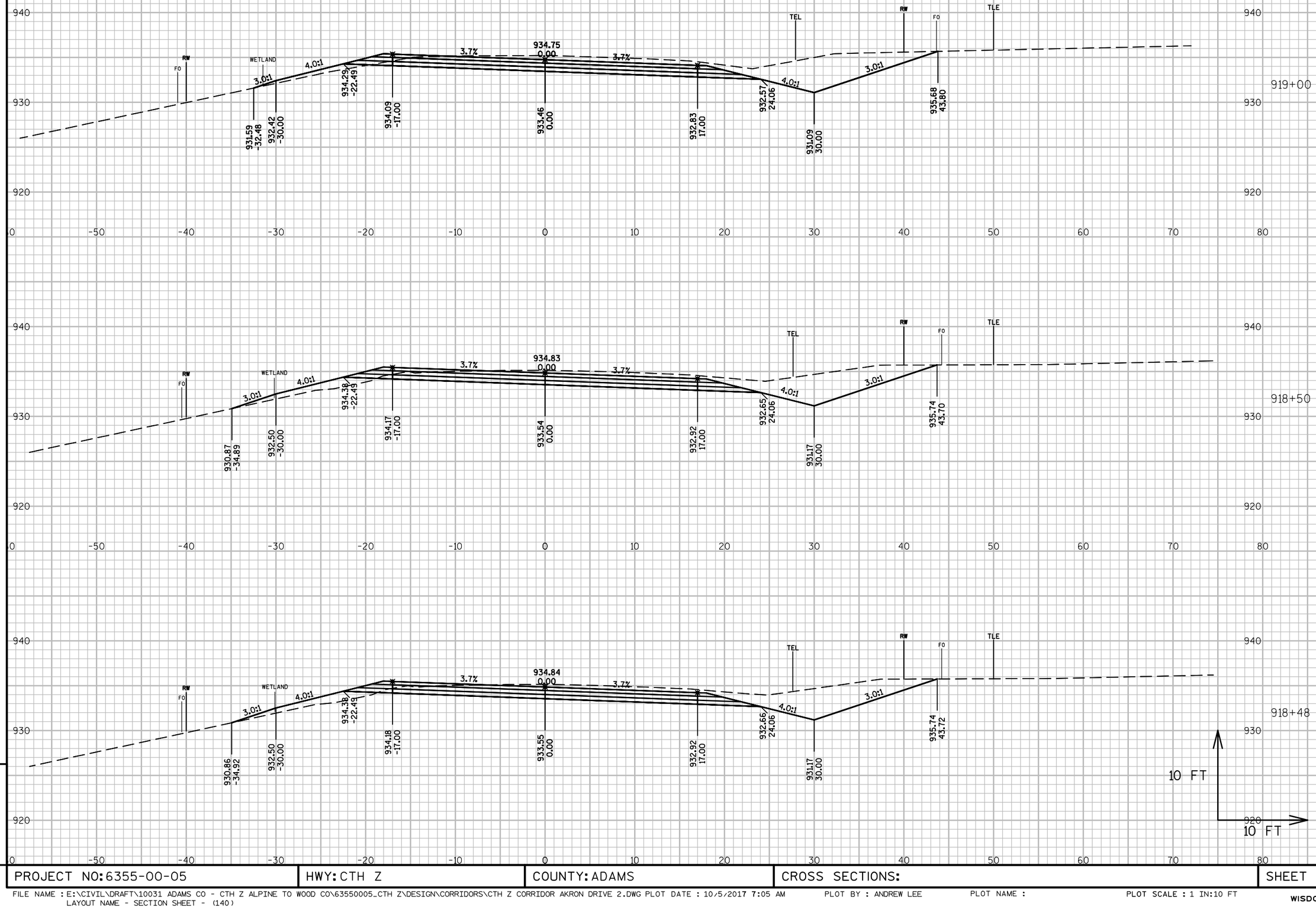
PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 219	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:05 AM
LAYOUT NAME - SECTION SHEET - (139)
PLOT BY : ANDREW LEE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49

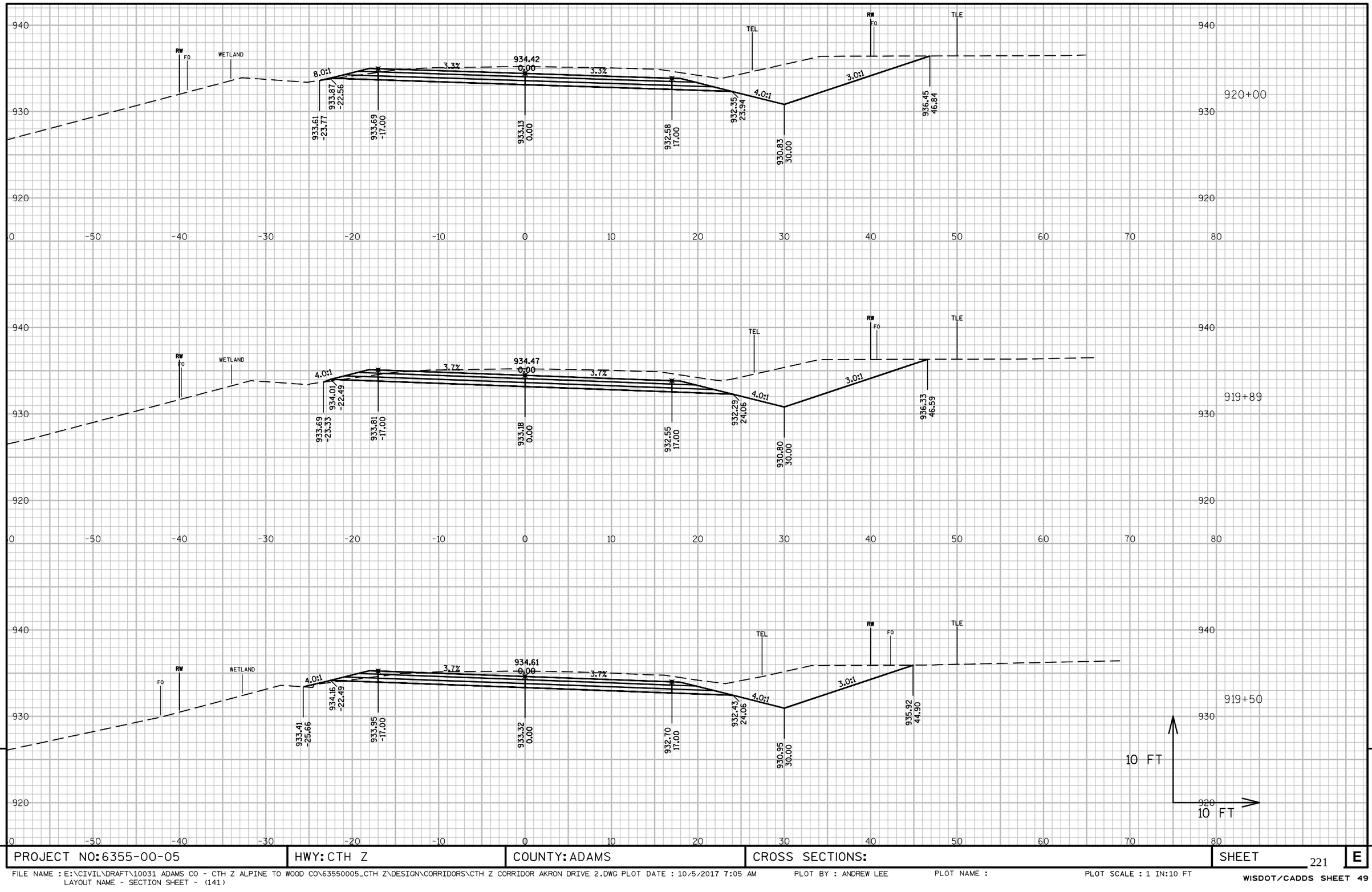


PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 220	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:05 AM
LAYOUT NAME - SECTION SHEET - (140)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

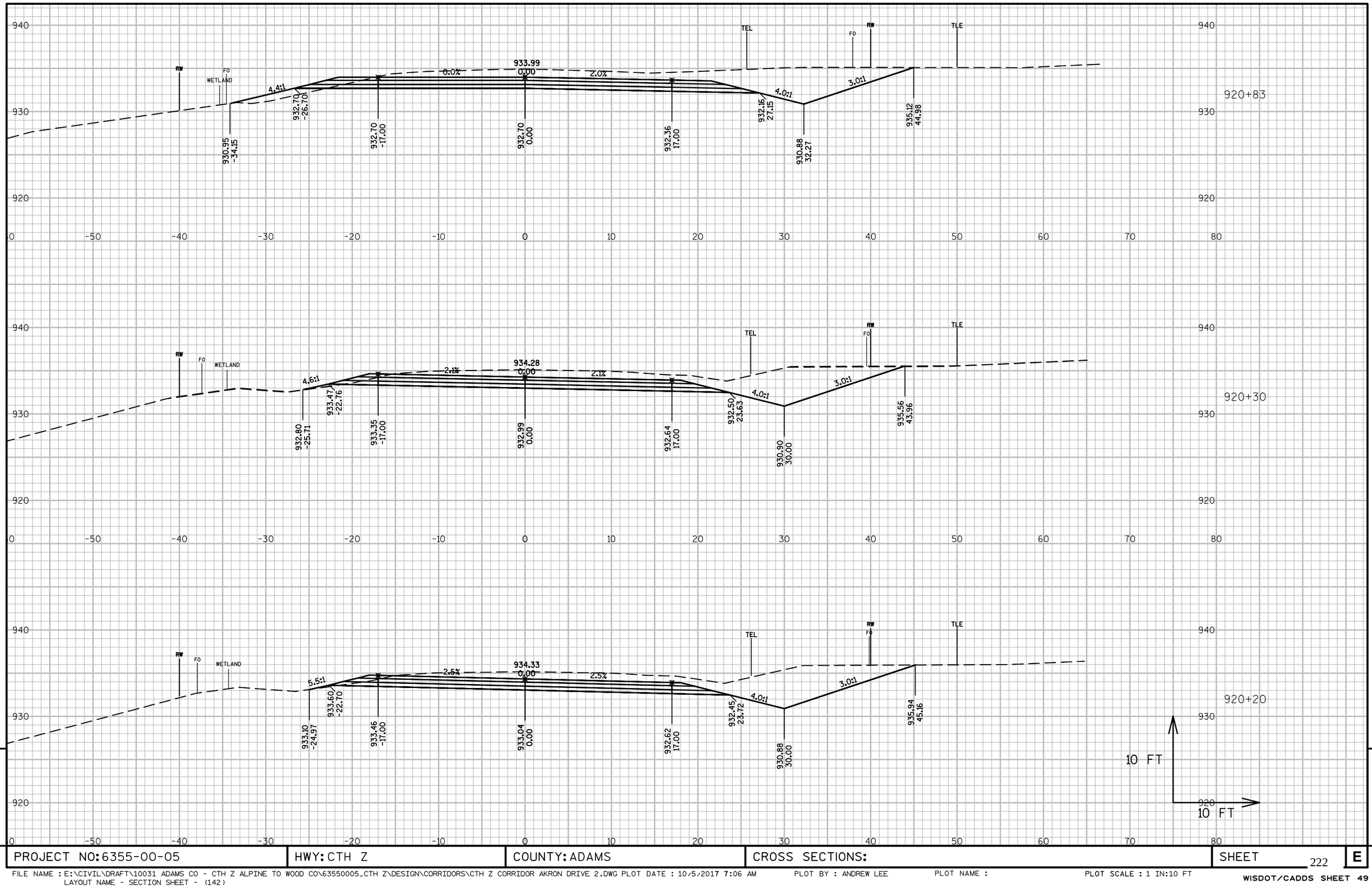


PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 221	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:05 AM
LAYOUT NAME - SECTION SHEET - (141)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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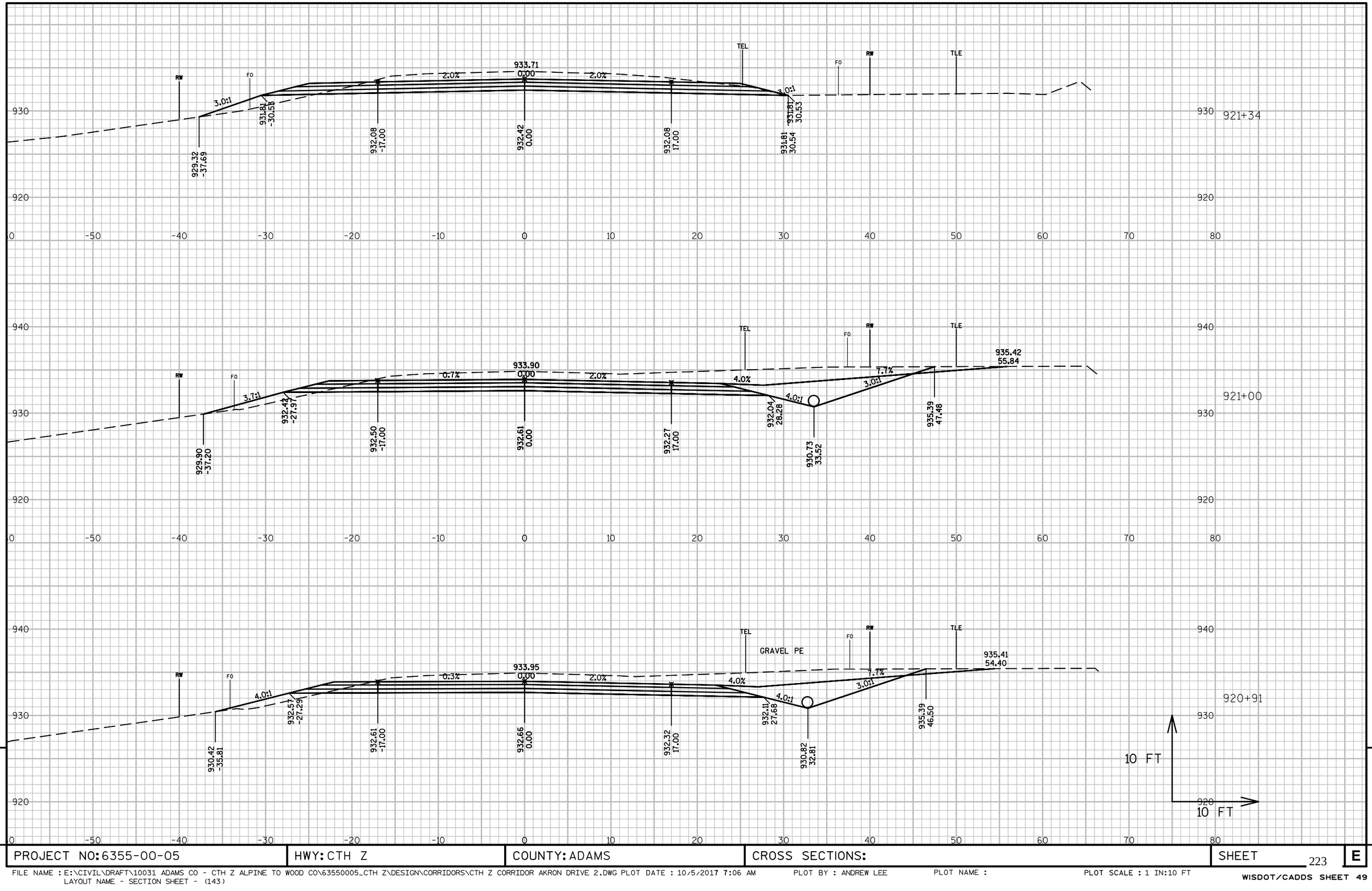
PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 222	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:06 AM
LAYOUT NAME - SECTION SHEET - (142)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

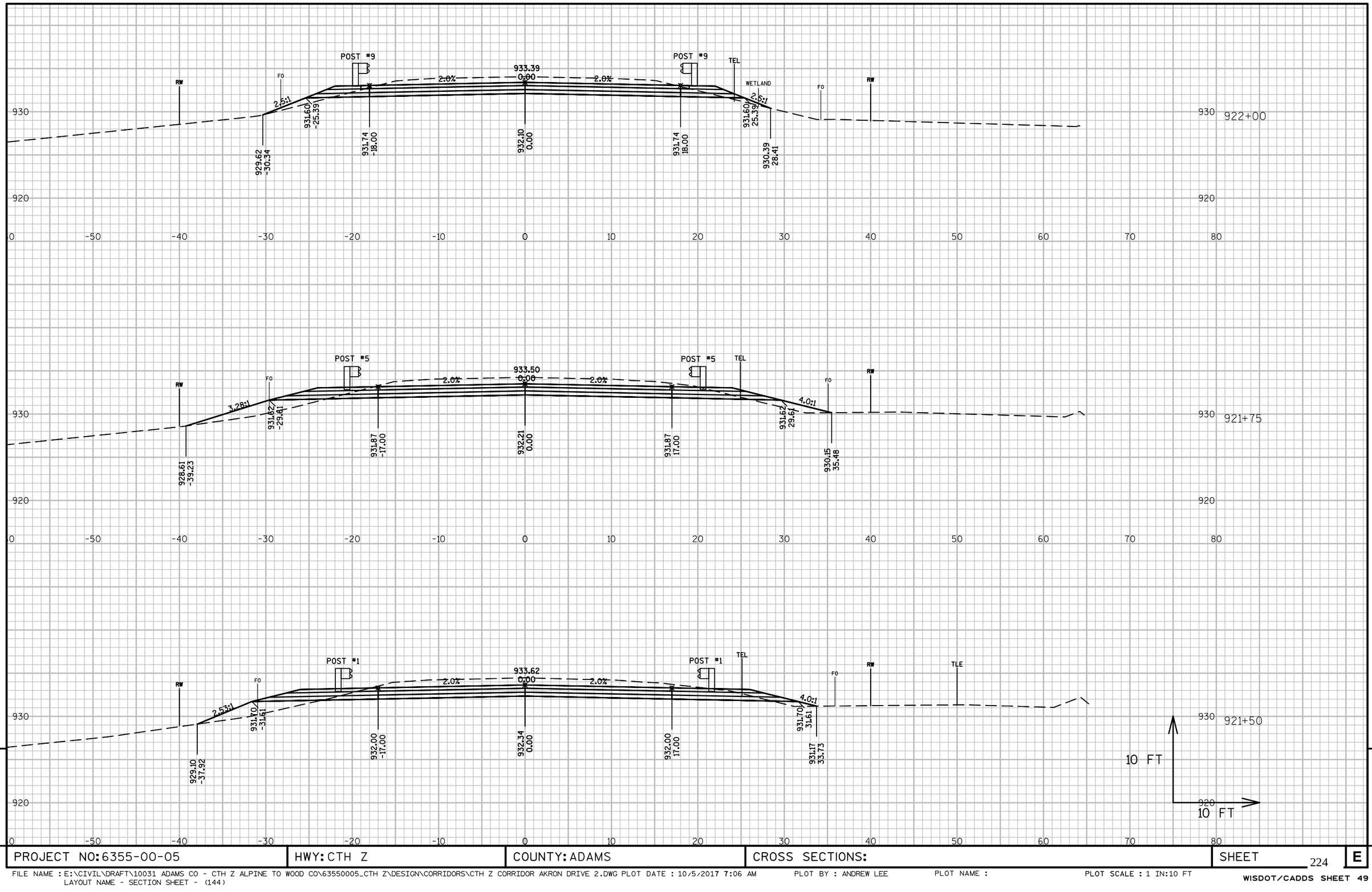


PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 223	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:06 AM
LAYOUT NAME - SECTION SHEET - (143)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

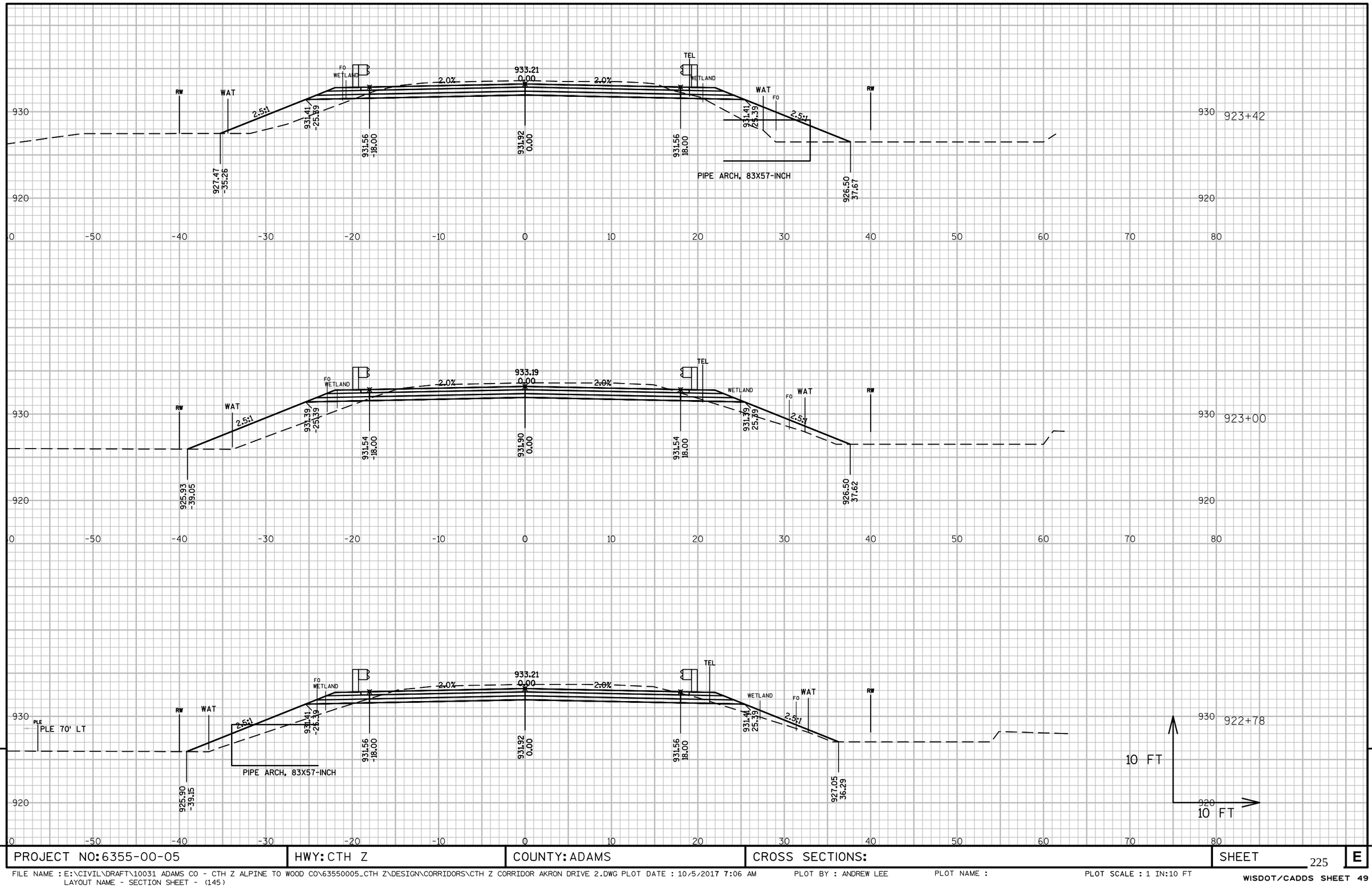


PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 224	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:06 AM
LAYOUT NAME - SECTION SHEET - (144)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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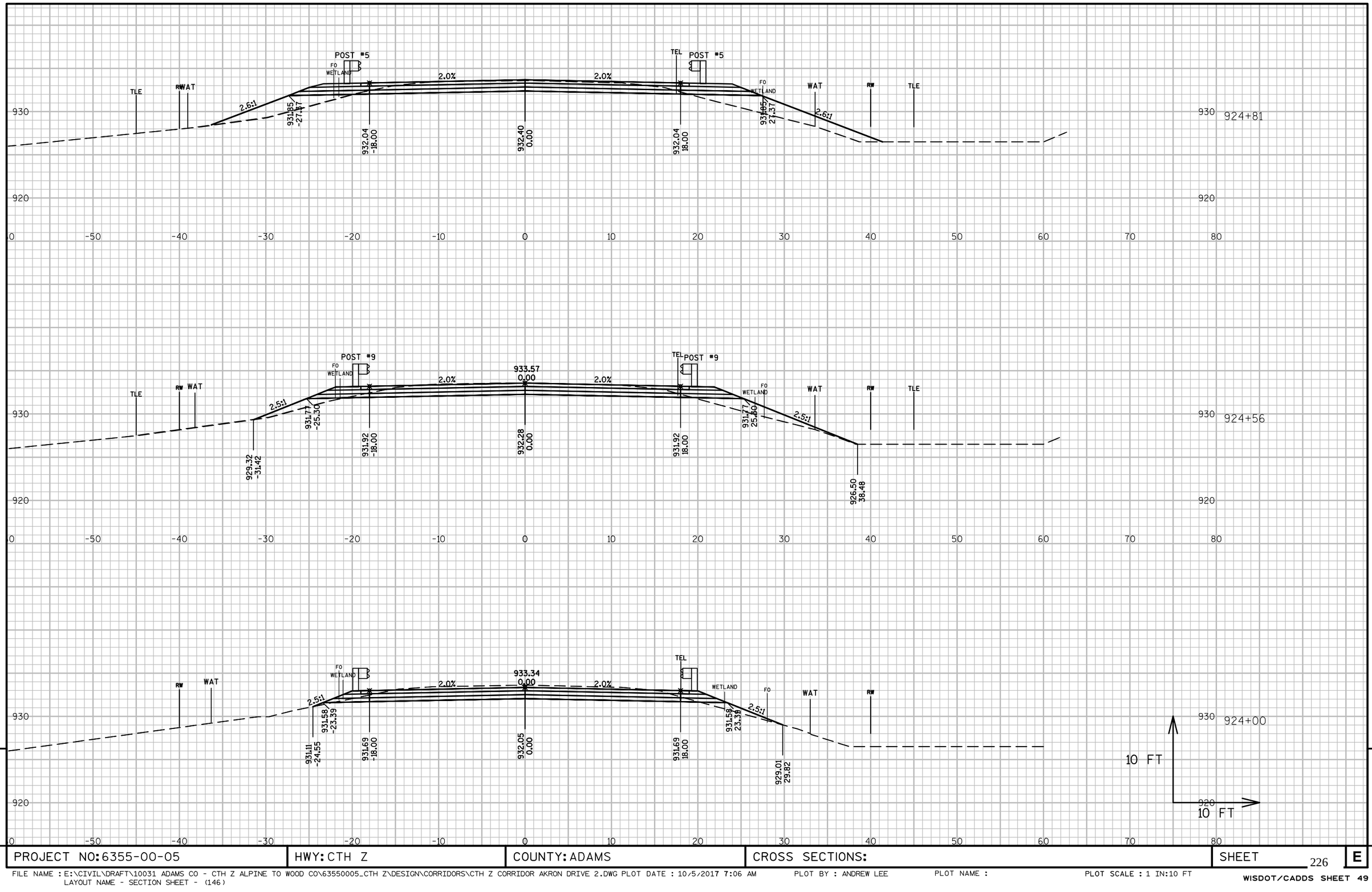
PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 225	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:06 AM
LAYOUT NAME - SECTION SHEET - (145)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

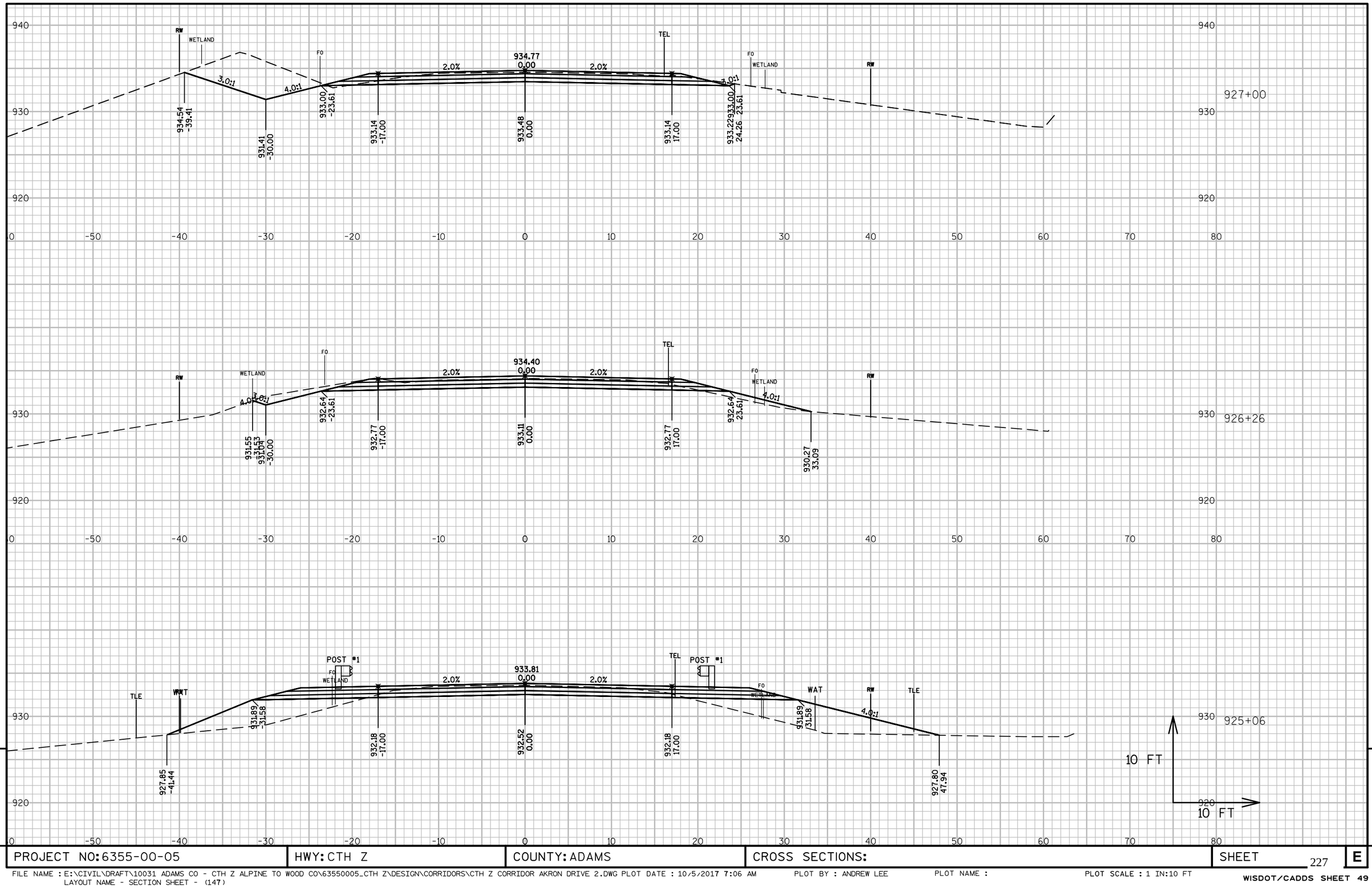


PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 226	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:06 AM
LAYOUT NAME - SECTION SHEET - (146)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 227	E

9

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:06 AM
LAYOUT NAME - SECTION SHEET - (147)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 228	E

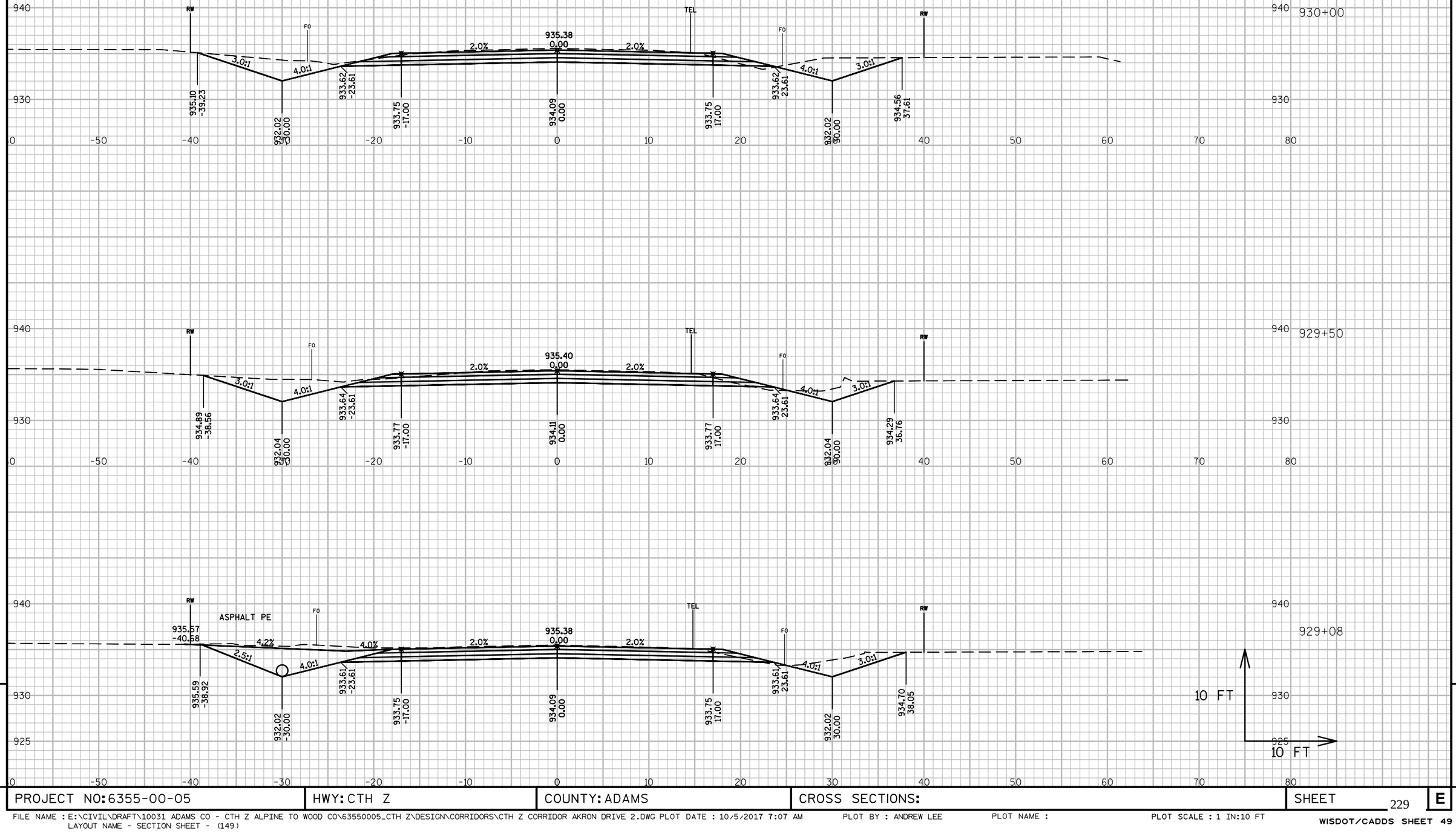
FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:07 AM
LAYOUT NAME - SECTION SHEET - (148)

PLOT BY : ANDREW LEE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

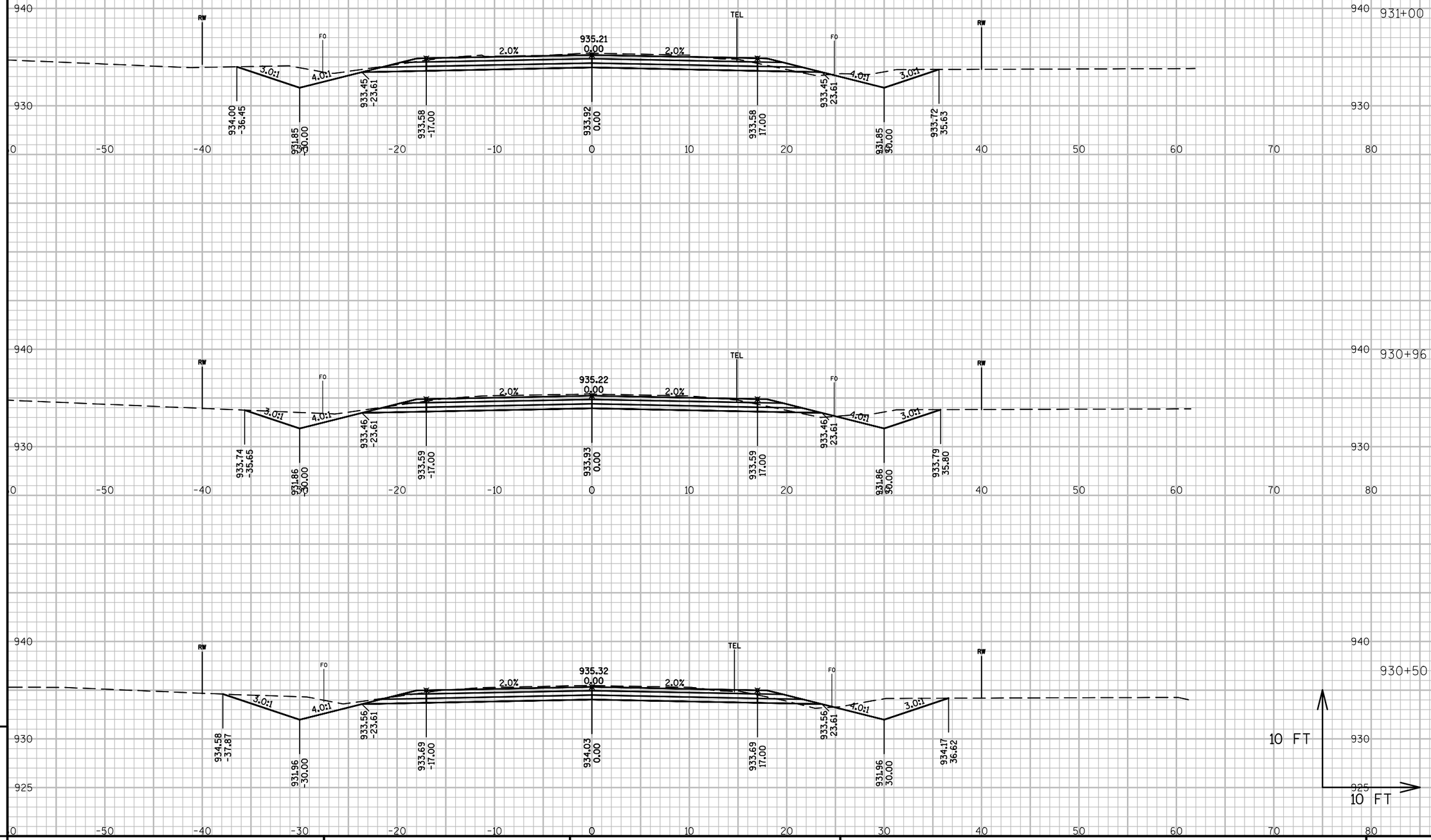


PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 229	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:07 AM
LAYOUT NAME - SECTION SHEET - (149)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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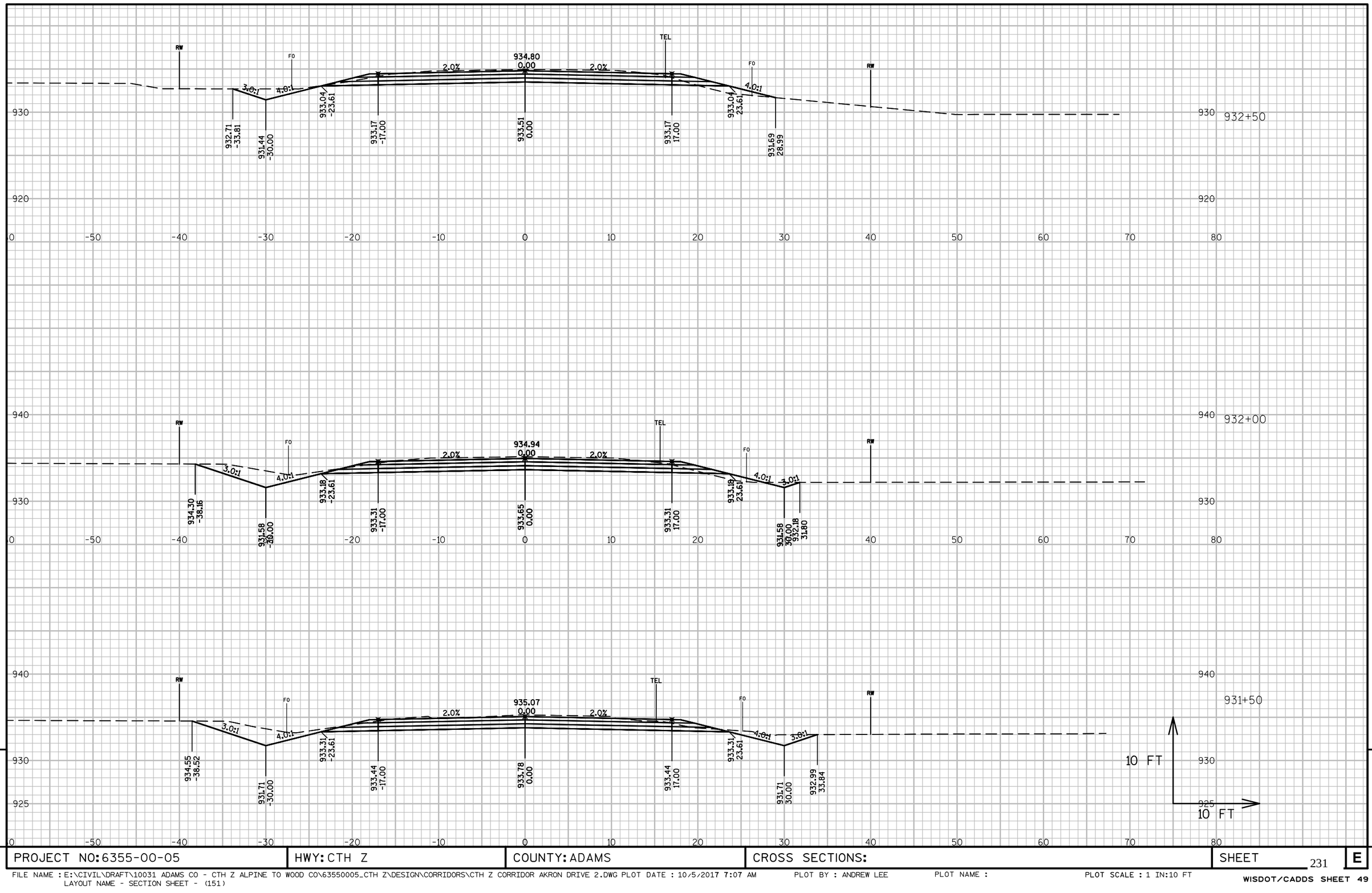
PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 230	E



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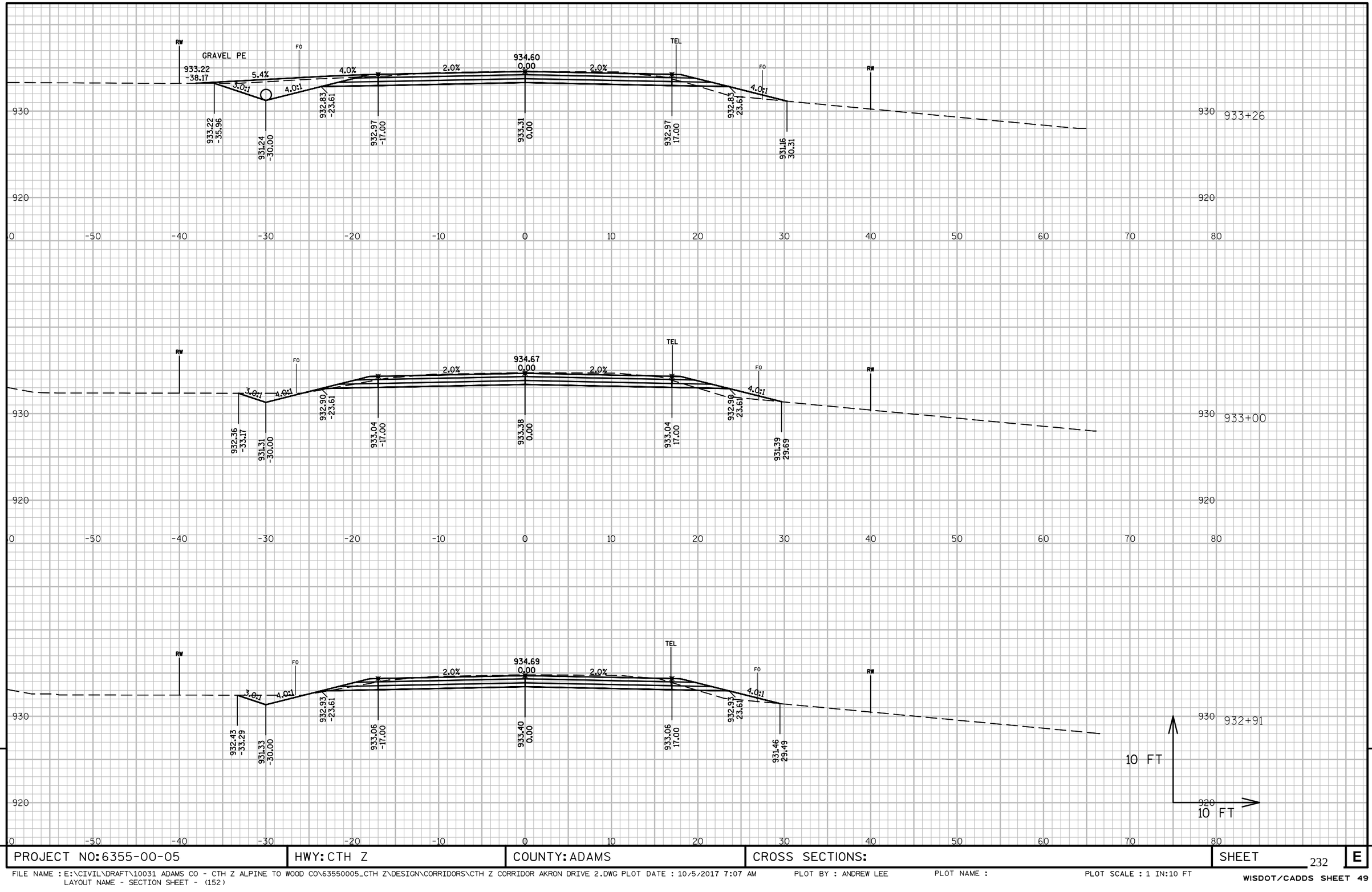
PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 231	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:07 AM
LAYOUT NAME - SECTION SHEET - (151)

PLOT BY : ANDREW LEE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT



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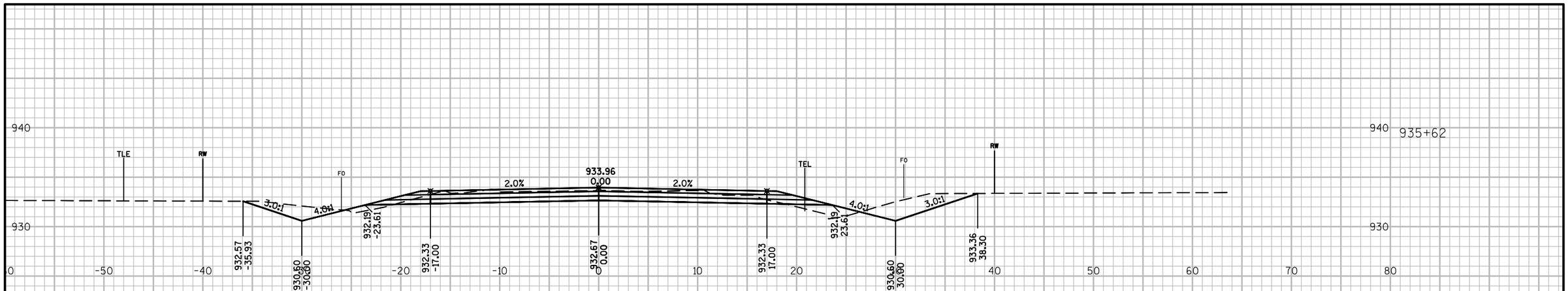
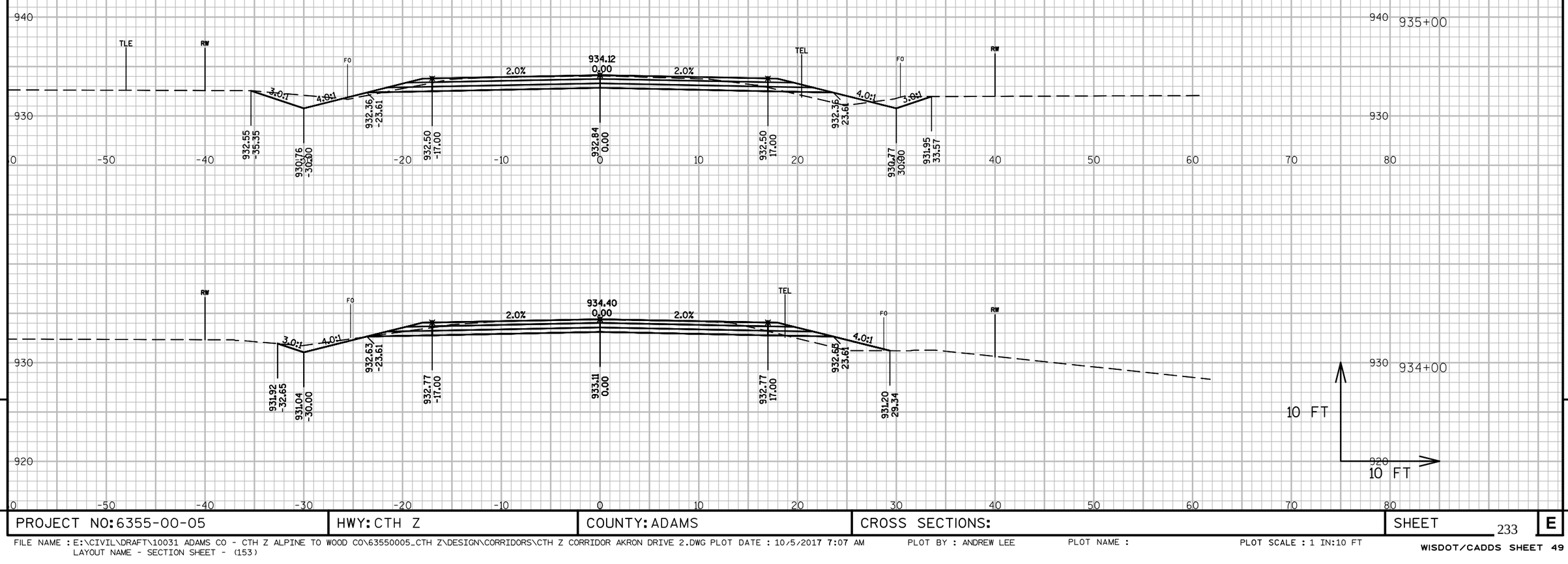
PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 232	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:07 AM
LAYOUT NAME - SECTION SHEET - (152)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49





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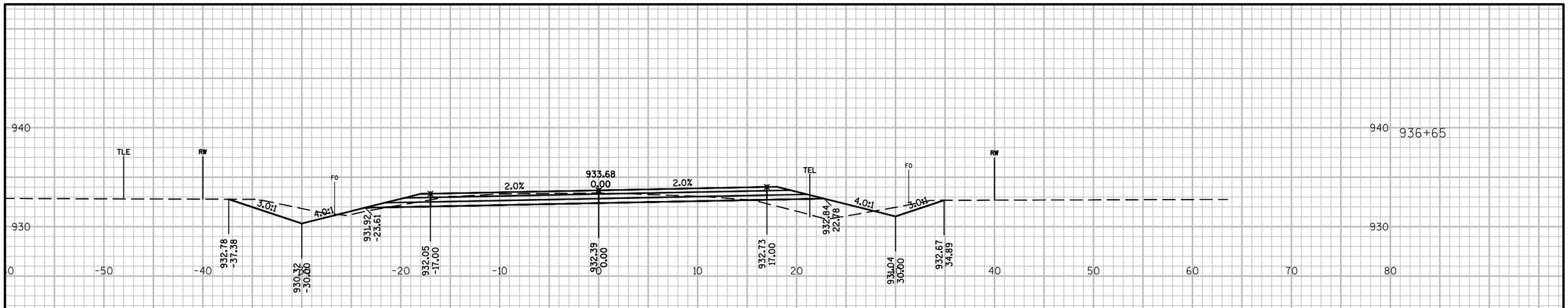
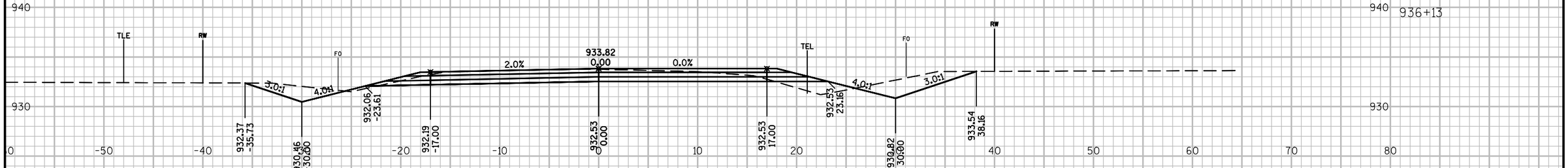
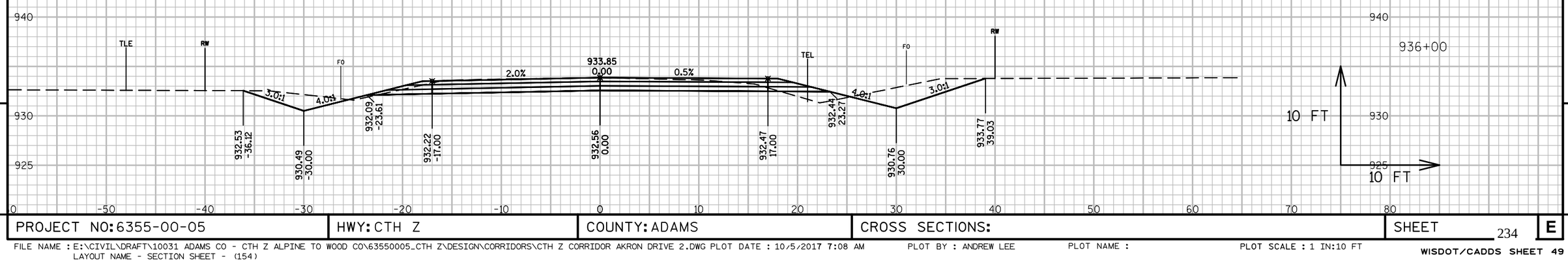
9

PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 233	E







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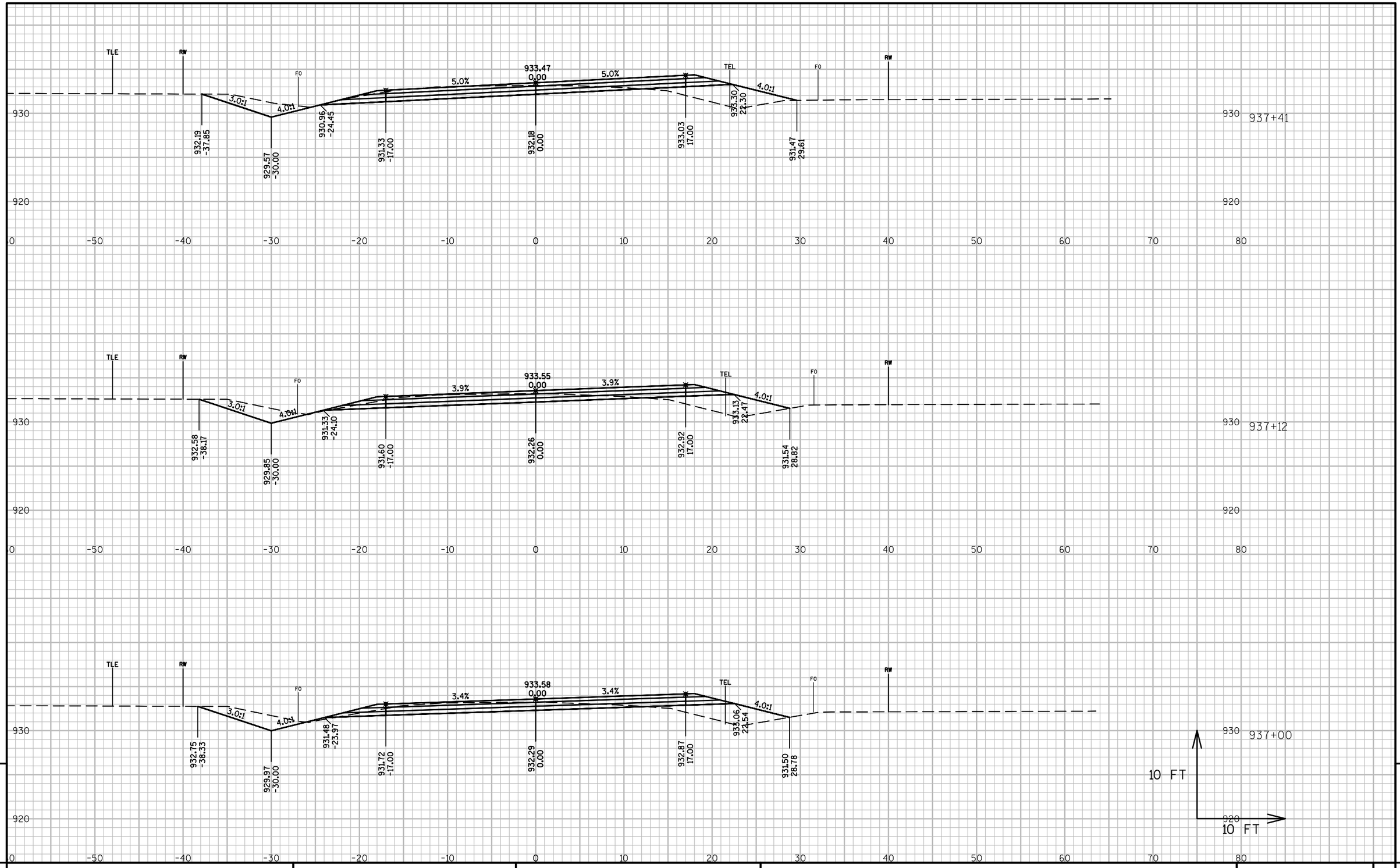
PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 234	E

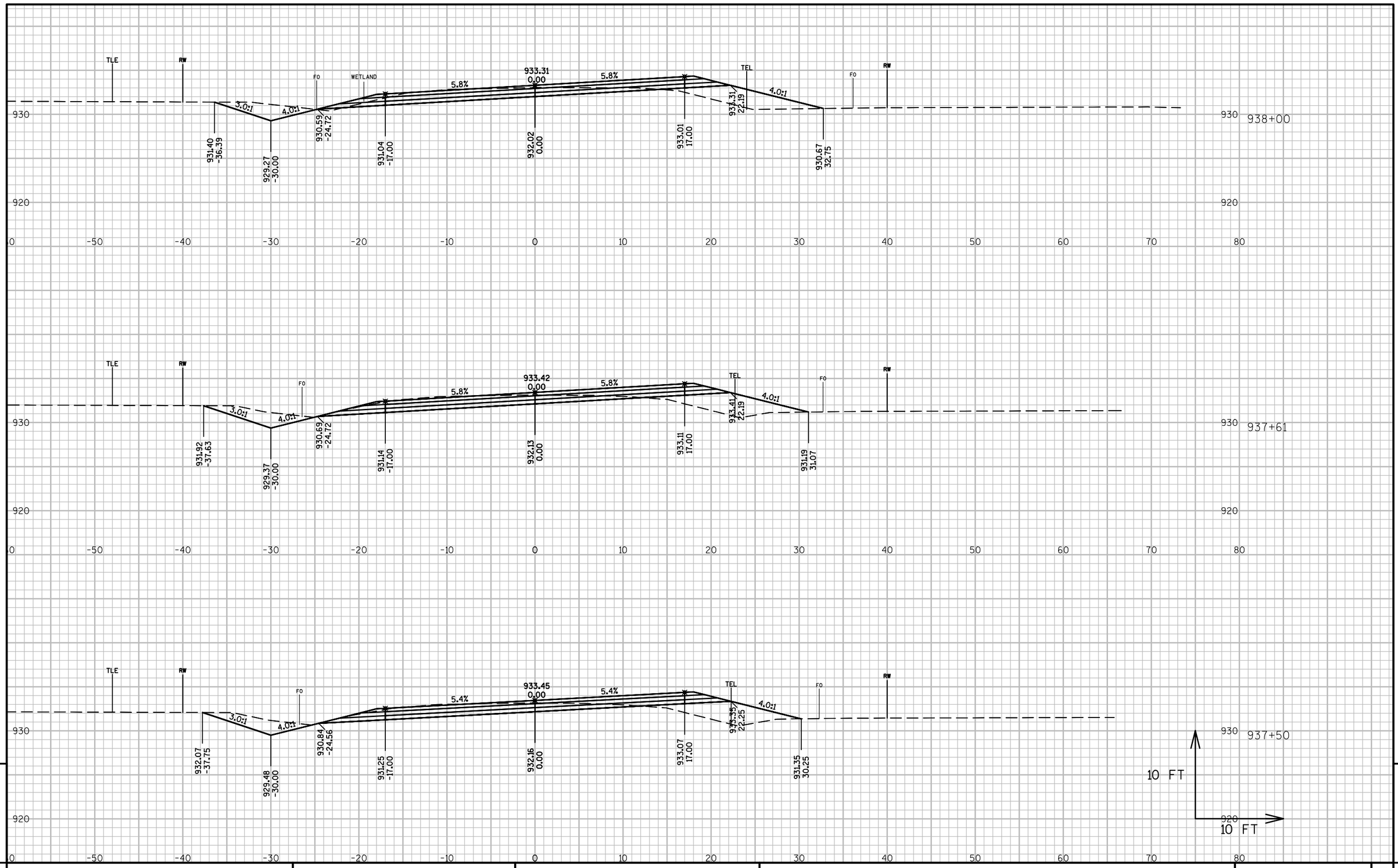


PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 235	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:08 AM
LAYOUT NAME - SECTION SHEET - (155)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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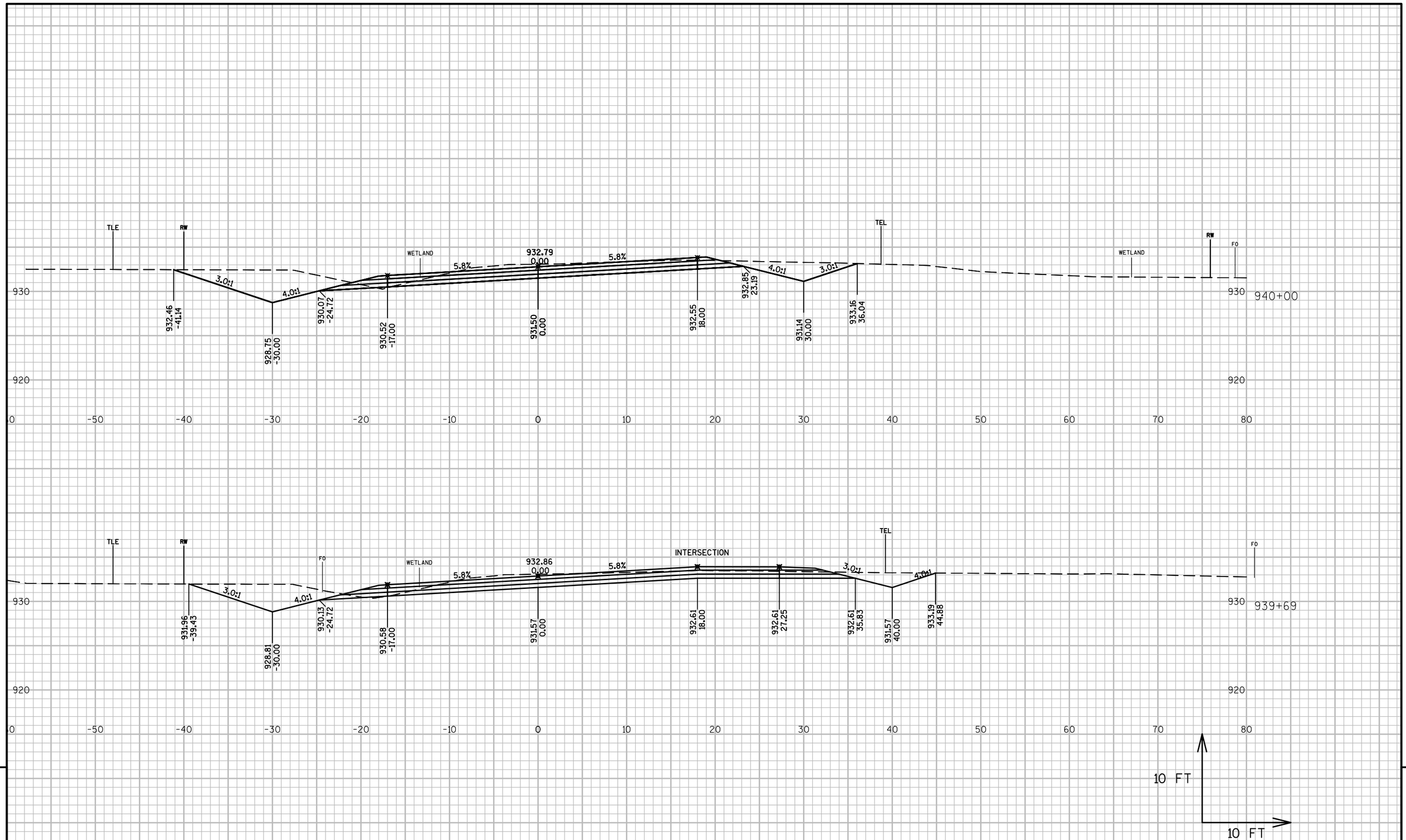
PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 236	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:08 AM
LAYOUT NAME - SECTION SHEET - (156)
PLOT BY : ANDREW LEE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49

AKRON DRIVE

PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 237	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:08 AM
LAYOUT NAME - SECTION SHEET - (157)
PLOT BY : ANDREW LEE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



9

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PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 238	E

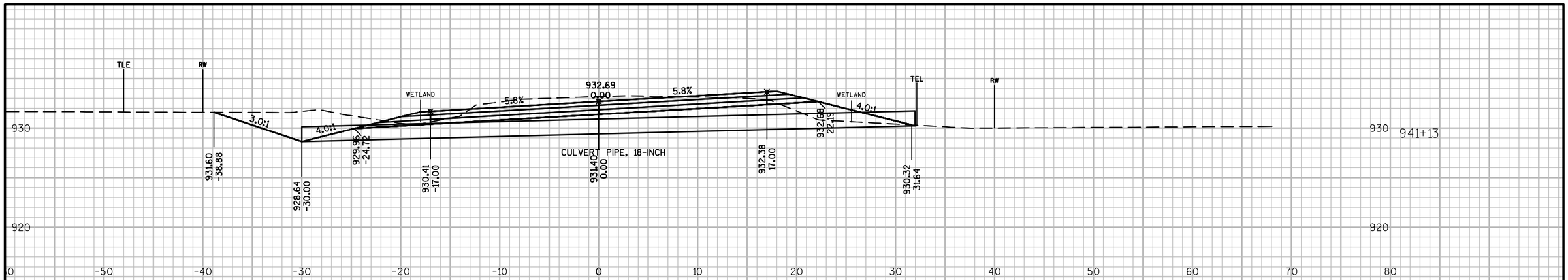
FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:08 AM
LAYOUT NAME - SECTION SHEET - (158)

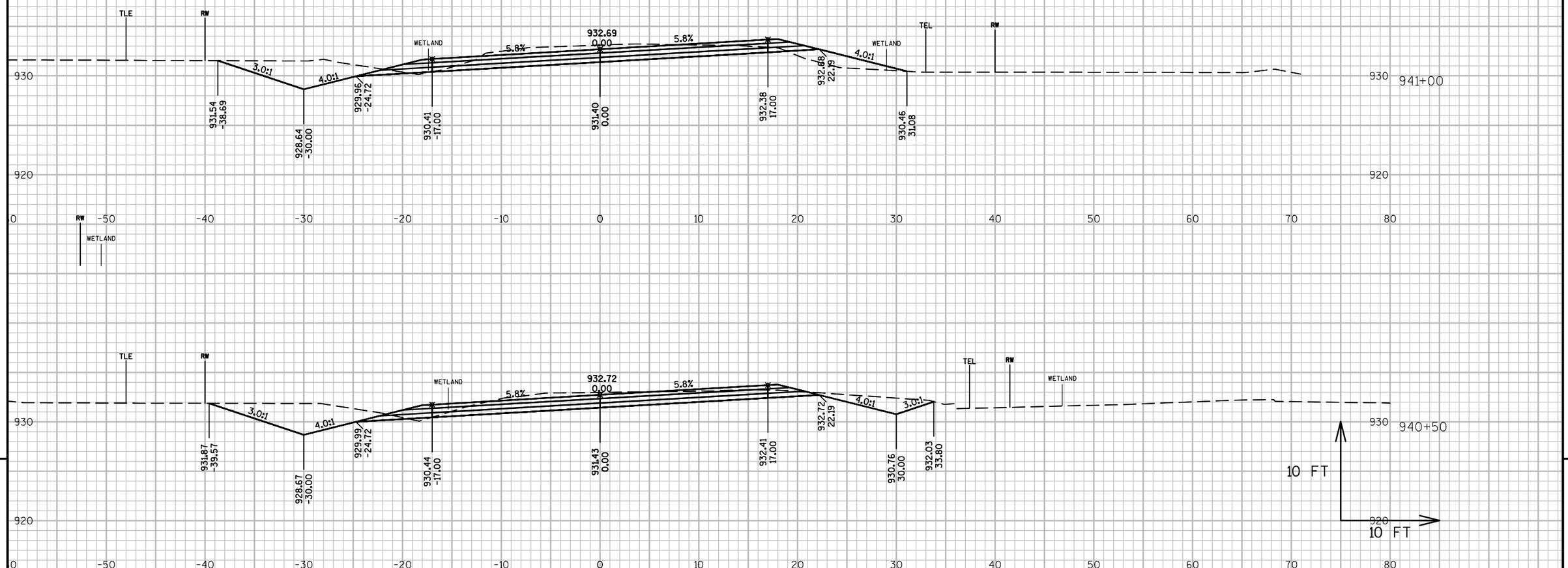
PLOT BY : ANDREW LEE

PLOT NAME :

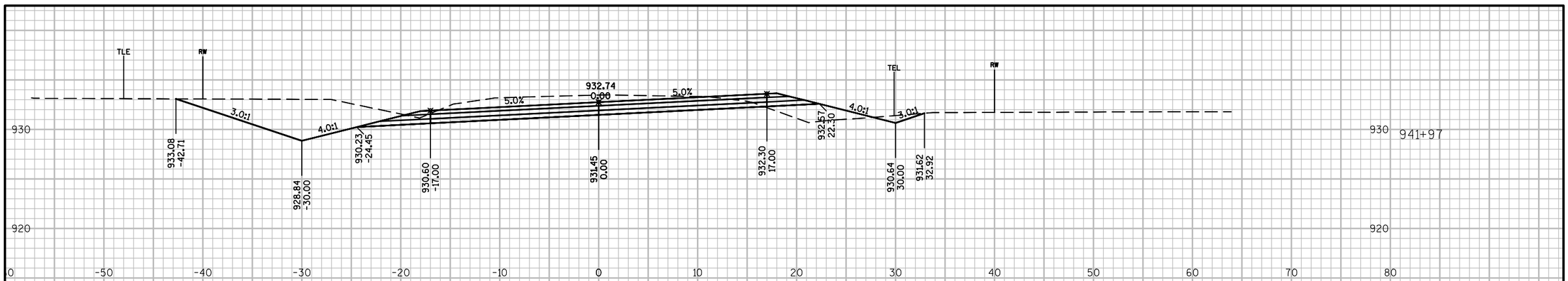
PLOT SCALE : 1 IN:10 FT

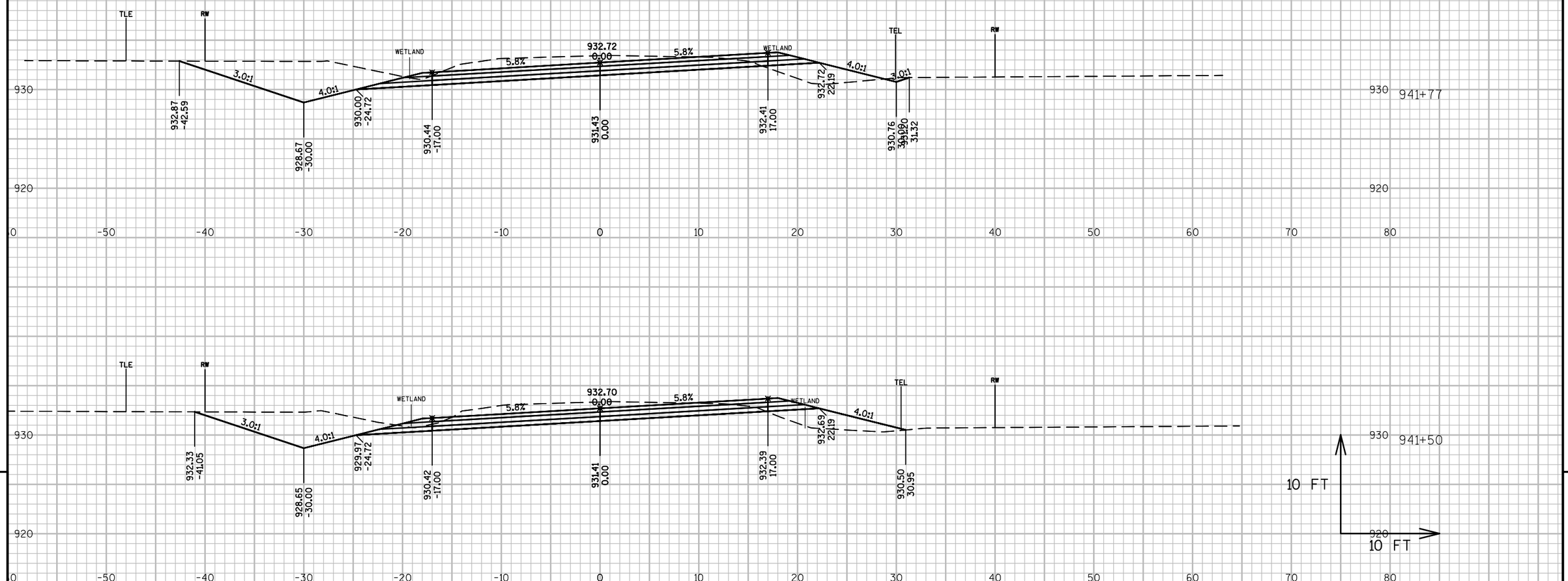
WISDOT/CADDS SHEET 49





PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 239	E





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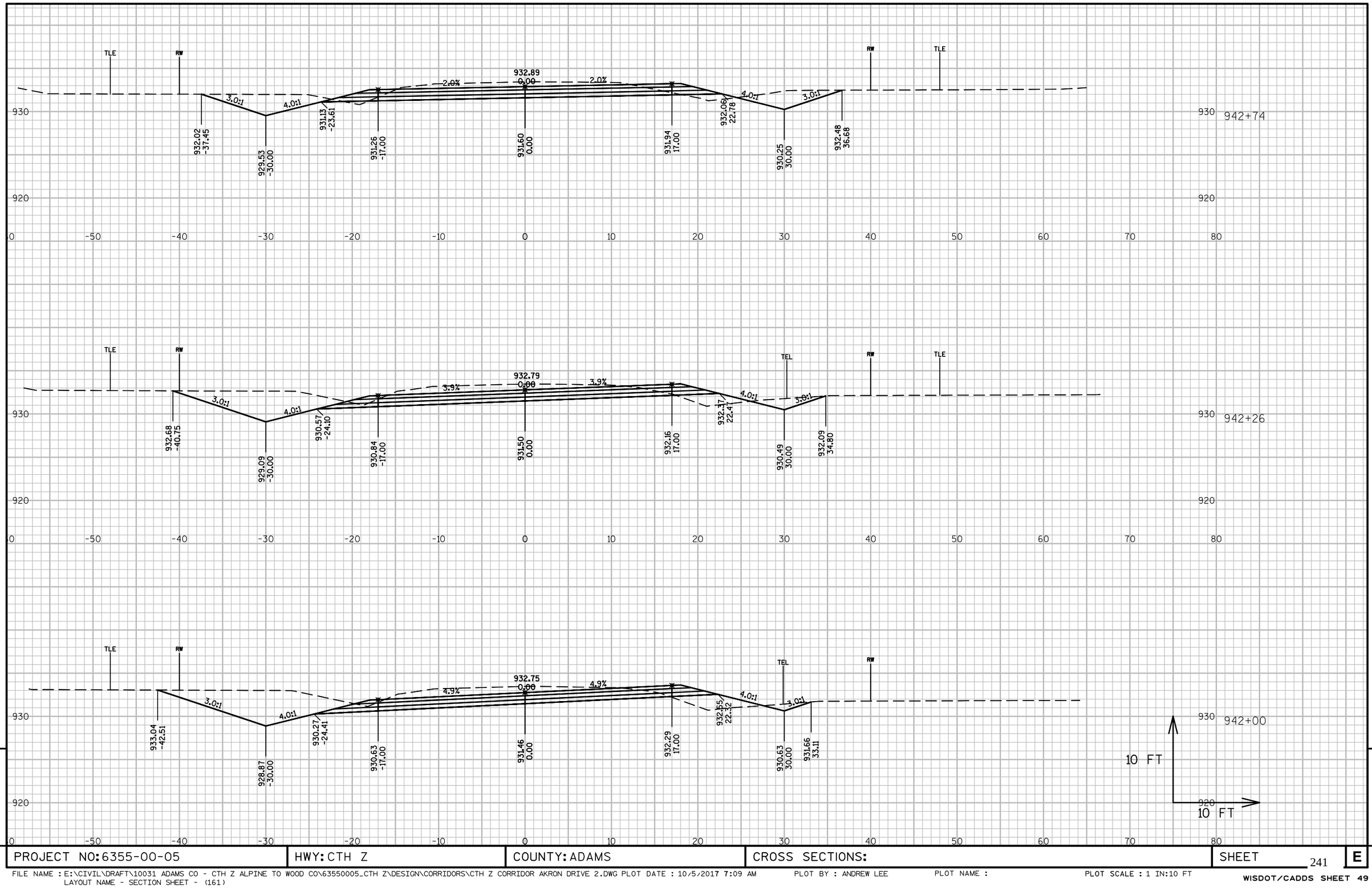
9

PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 240	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:09 AM
LAYOUT NAME - SECTION SHEET - (160)
PLOT BY : ANDREW LEE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



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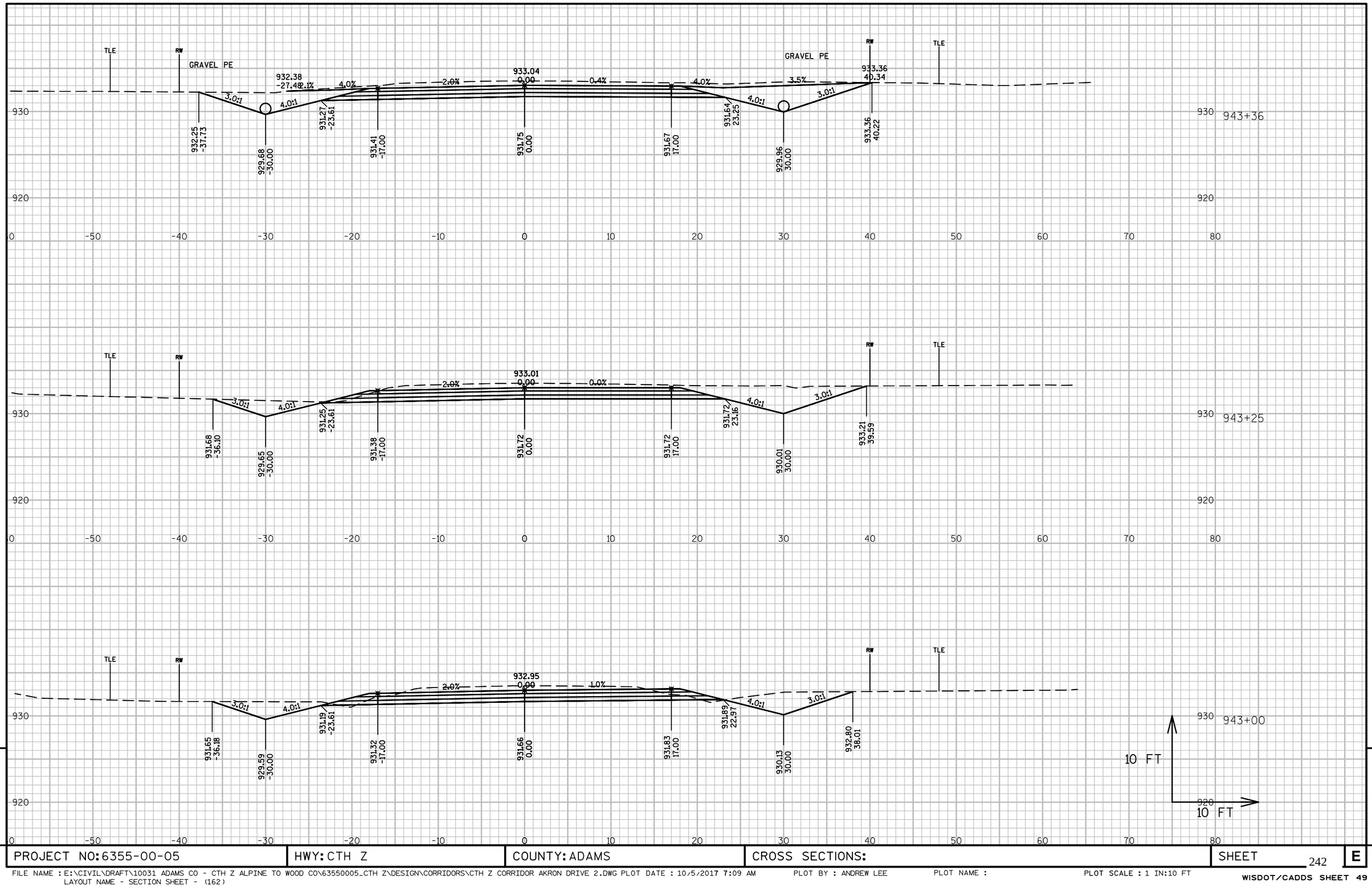
PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 241	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:09 AM
LAYOUT NAME - SECTION SHEET - (161)
PLOT BY : ANDREW LEE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



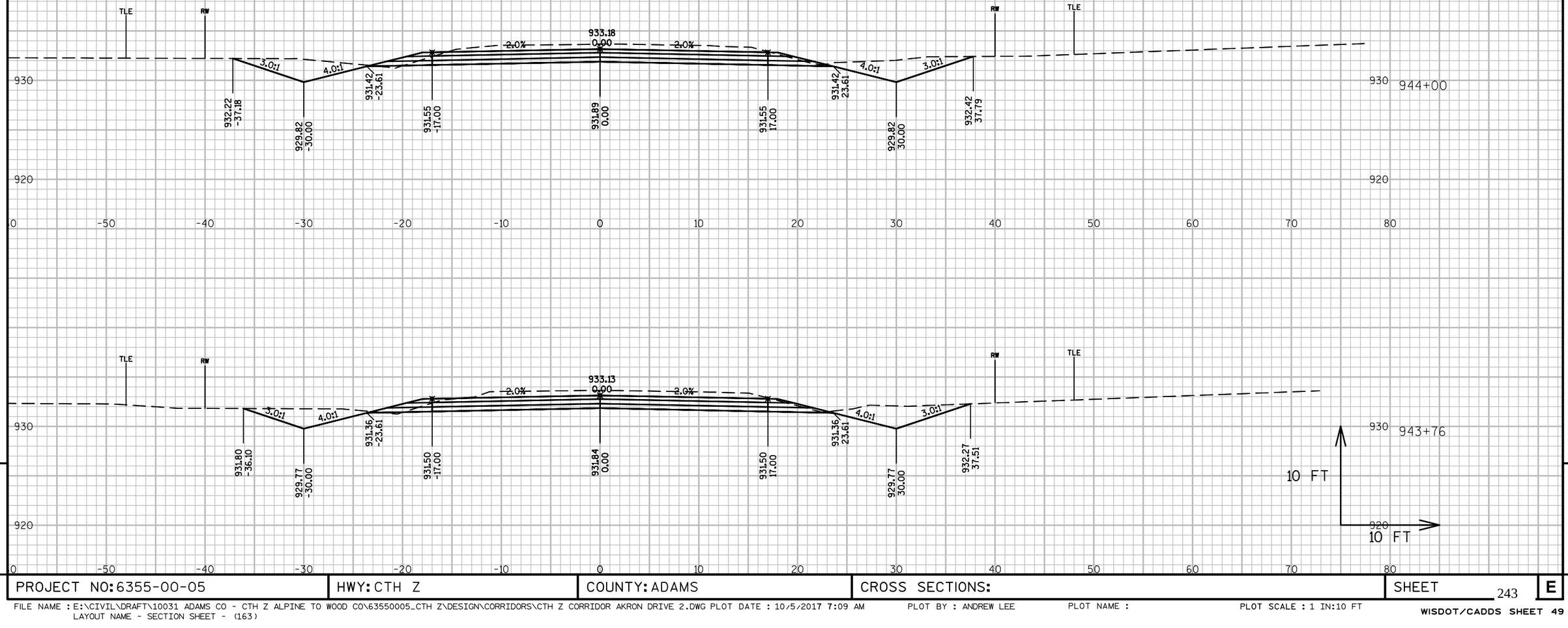
PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 242	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:09 AM
LAYOUT NAME - SECTION SHEET - (162)

PLOT BY : ANDREW LEE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT



PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 243	E

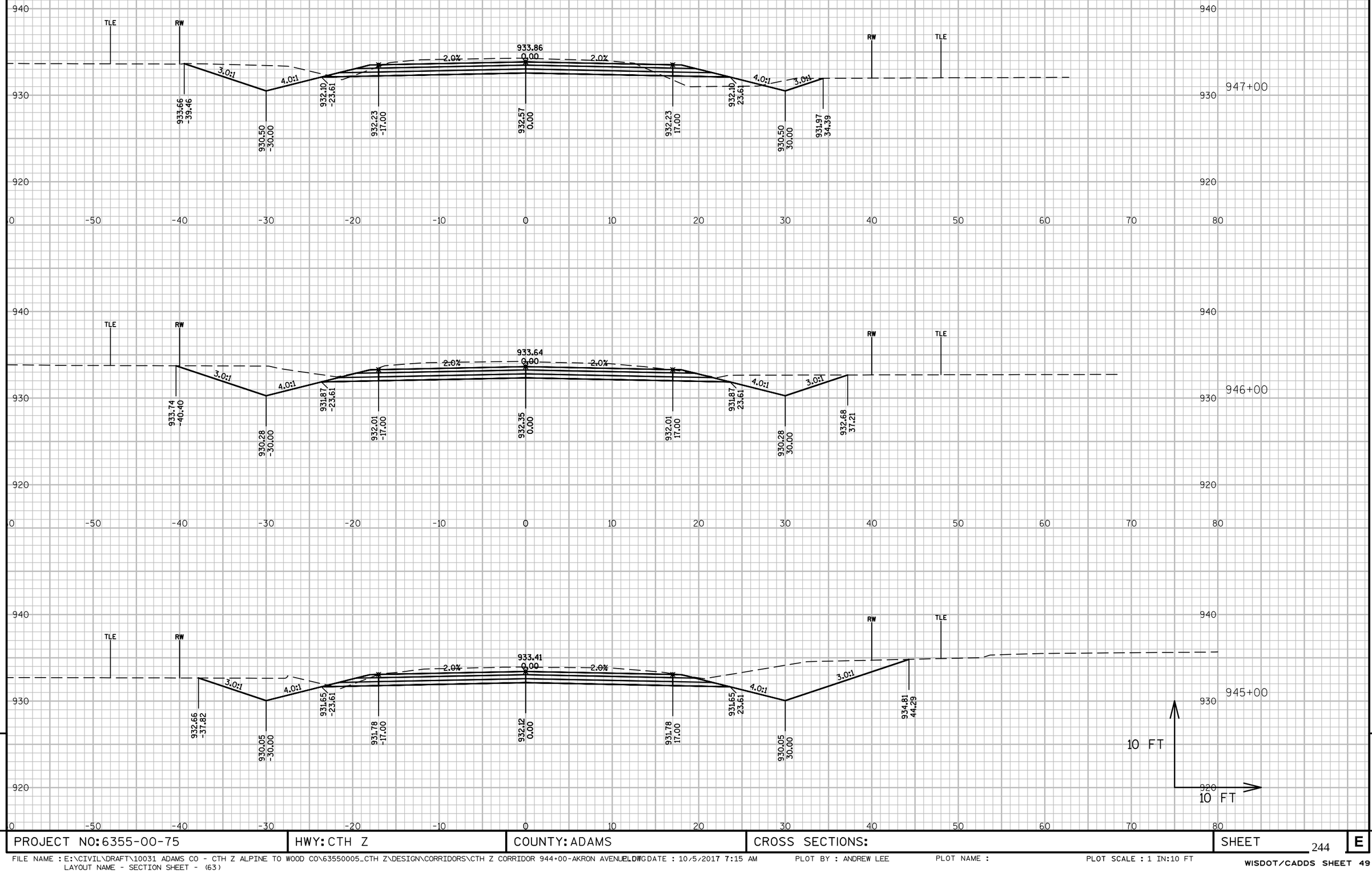
FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR AKRON DRIVE 2.DWG PLOT DATE : 10/5/2017 7:09 AM
LAYOUT NAME - SECTION SHEET - (163)

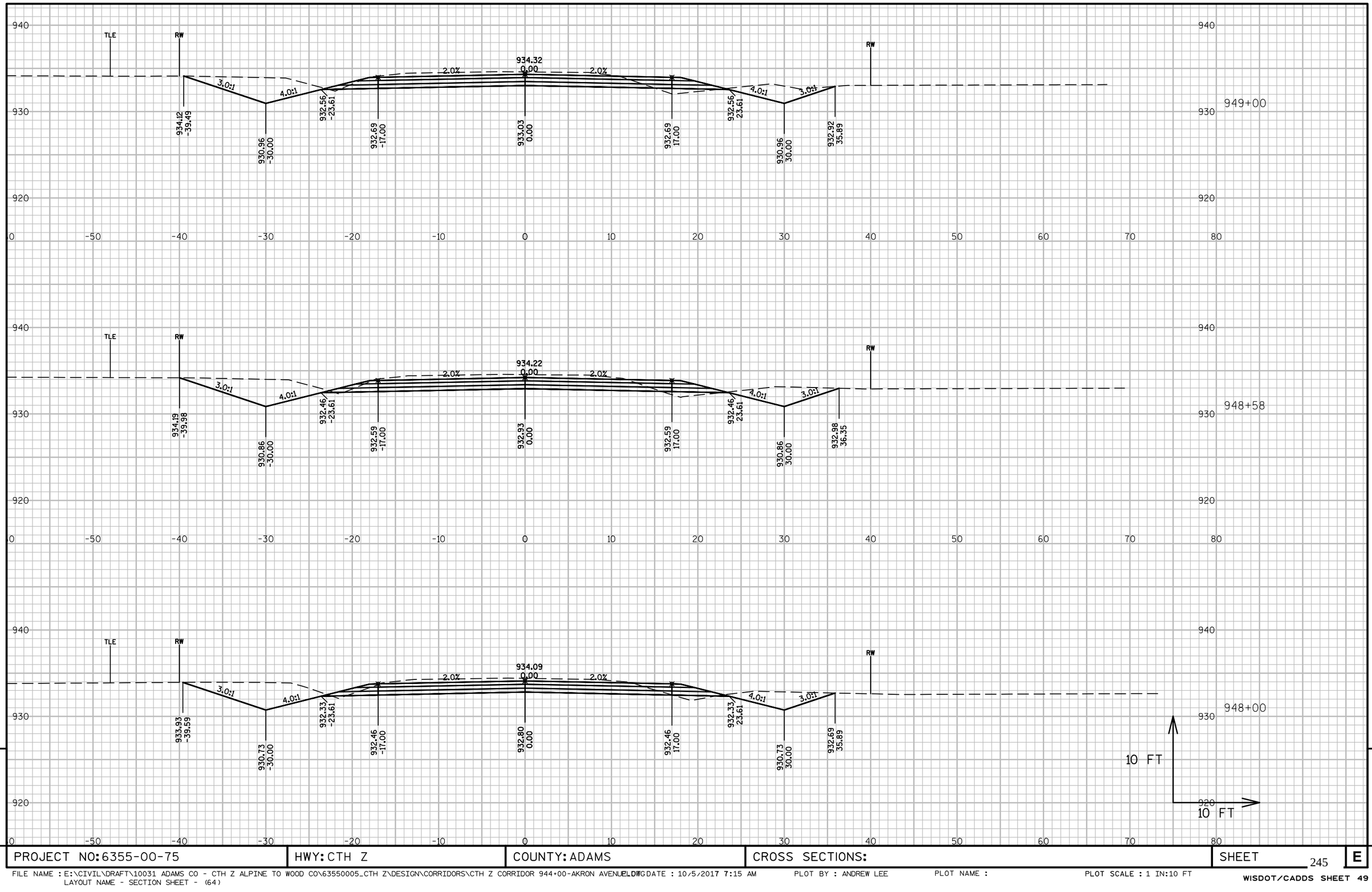
PLOT BY : ANDREW LEE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49


940
930
920
0
-50
-40
-30
-20
-10
0
10
20
30
40
50
60
70
80
TLE
RW
3.0:1
4.0:1
2.0%
933.86
0.00
933.66
-39.46
930.50
-30.00
932.10
-23.61
932.23
-17.00
932.57
0.00
932.23
17.00
932.10
23.61
930.50
30.00
931.97
34.39
947+00
933.74
-40.40
931.87
-23.61
932.01
-17.00
933.64
0.00
932.35
0.00
932.01
17.00
931.87
23.61
930.28
30.00
932.68
37.21
946+00
932.66
-37.82
931.65
-23.61
931.78
-17.00
933.41
0.00
932.12
0.00
931.78
17.00
931.65
23.61
930.05
30.00
934.81
44.29
945+00
10 FT
10 FT



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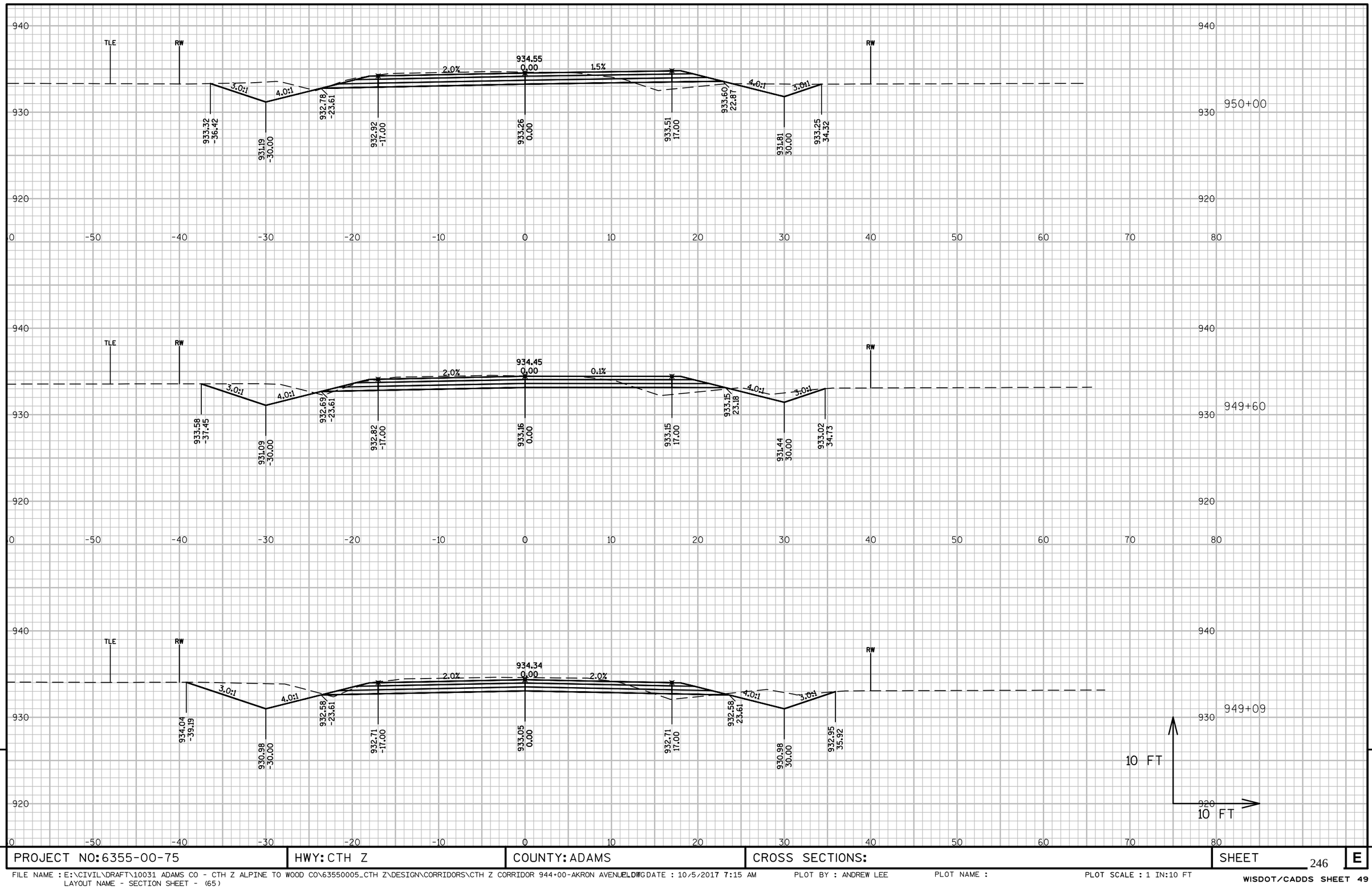
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 245	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 944+00-AKRON AVENUE.DWG DATE : 10/5/2017 7:15 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT
LAYOUT NAME - SECTION SHEET - (64)

WISDOT/CADDS SHEET 49



9

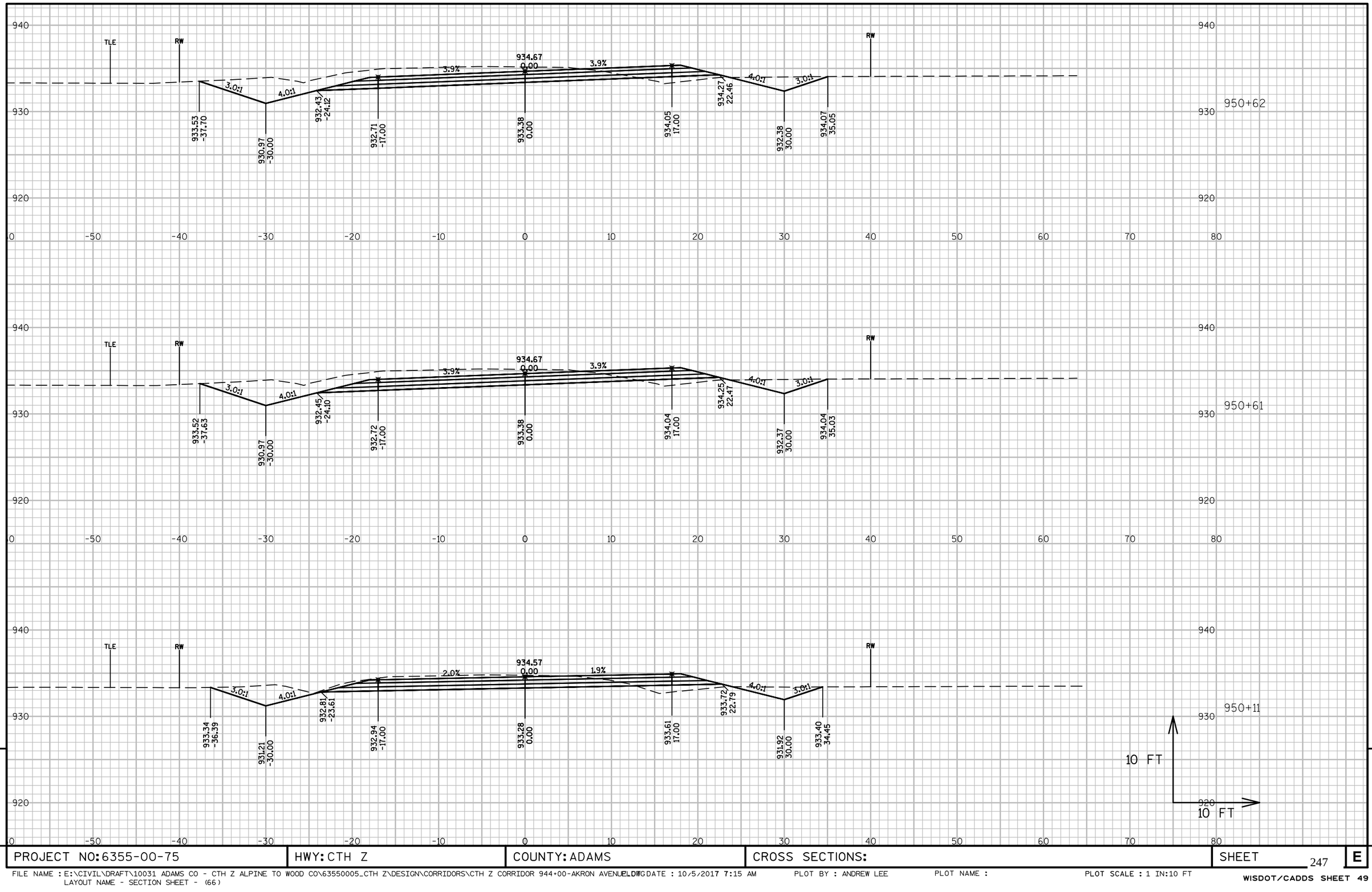
9

PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 246	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 944+00-AKRON AVENUE.DWG
LAYOUT NAME - SECTION SHEET - (65)

PLOTTED DATE : 10/5/2017 7:15 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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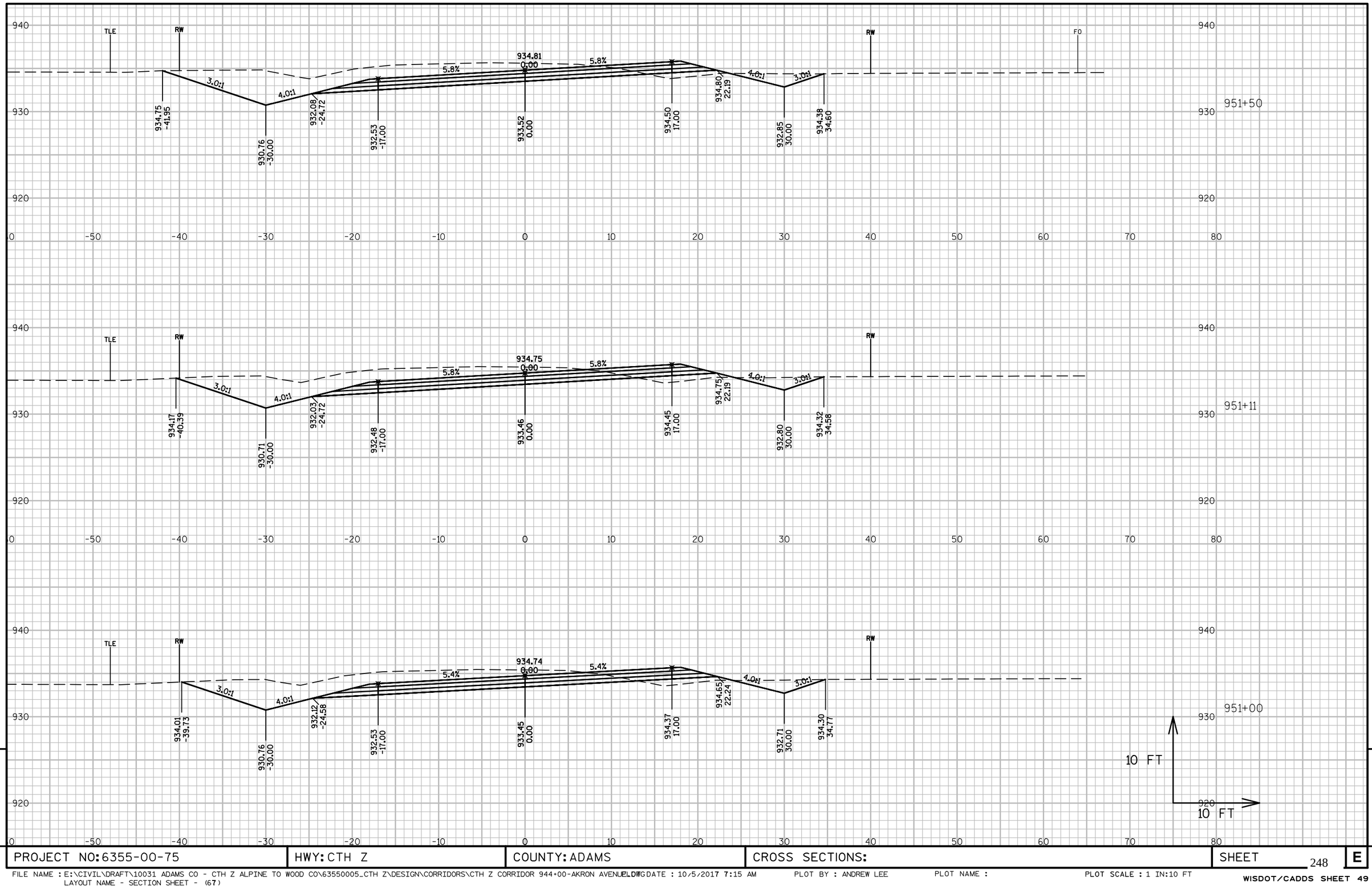
9

PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 247	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 944+00-AKRON AVENUE.DWG DATE : 10/5/2017 7:15 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT
LAYOUT NAME - SECTION SHEET - (66)

WISDOT/CADDS SHEET 49



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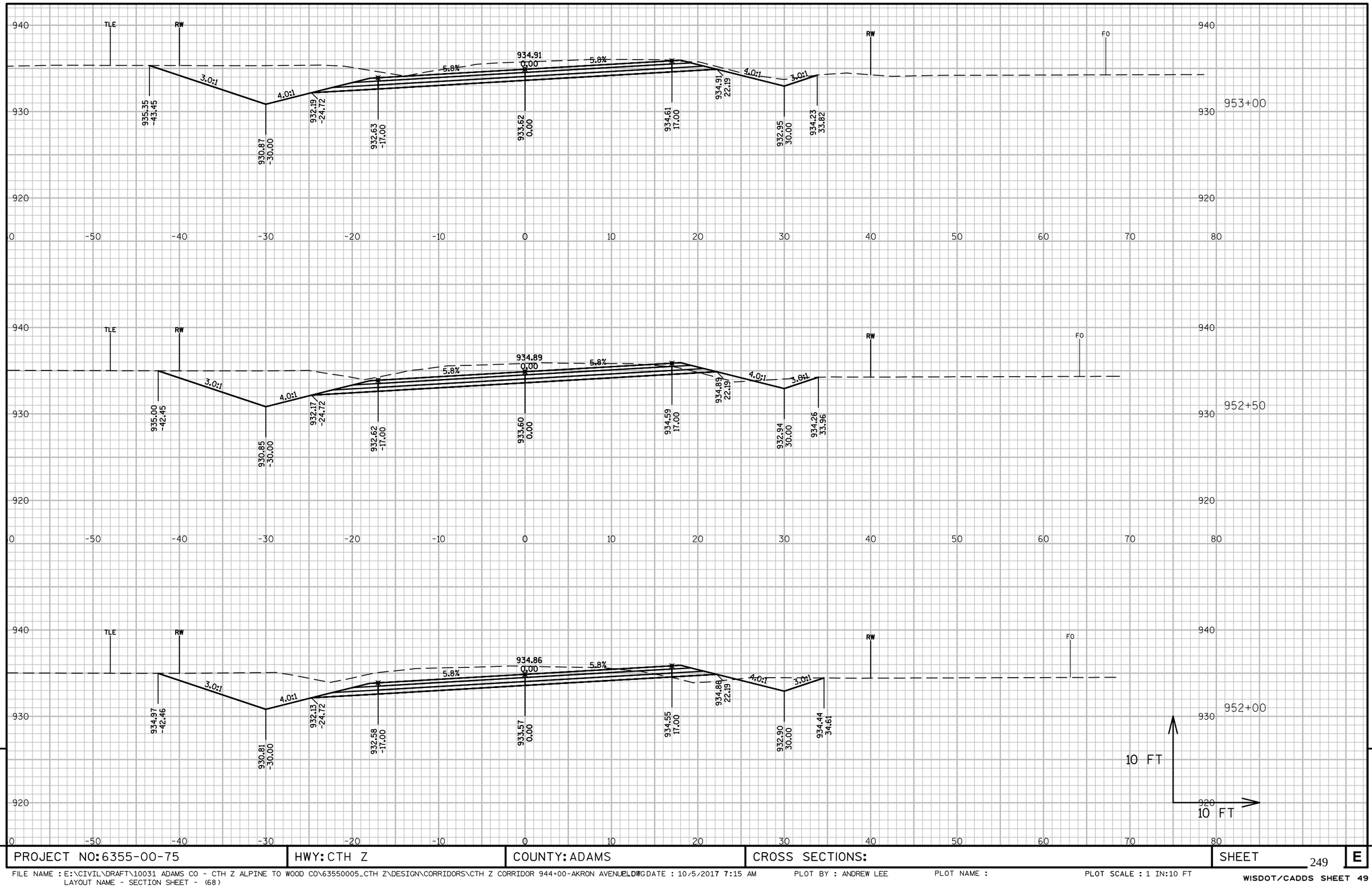
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 248	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 944+00-AKRON AVENUE.DWG DATE : 10/5/2017 7:15 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT
LAYOUT NAME - SECTION SHEET - (67)

WISDOT/CADDS SHEET 49



9

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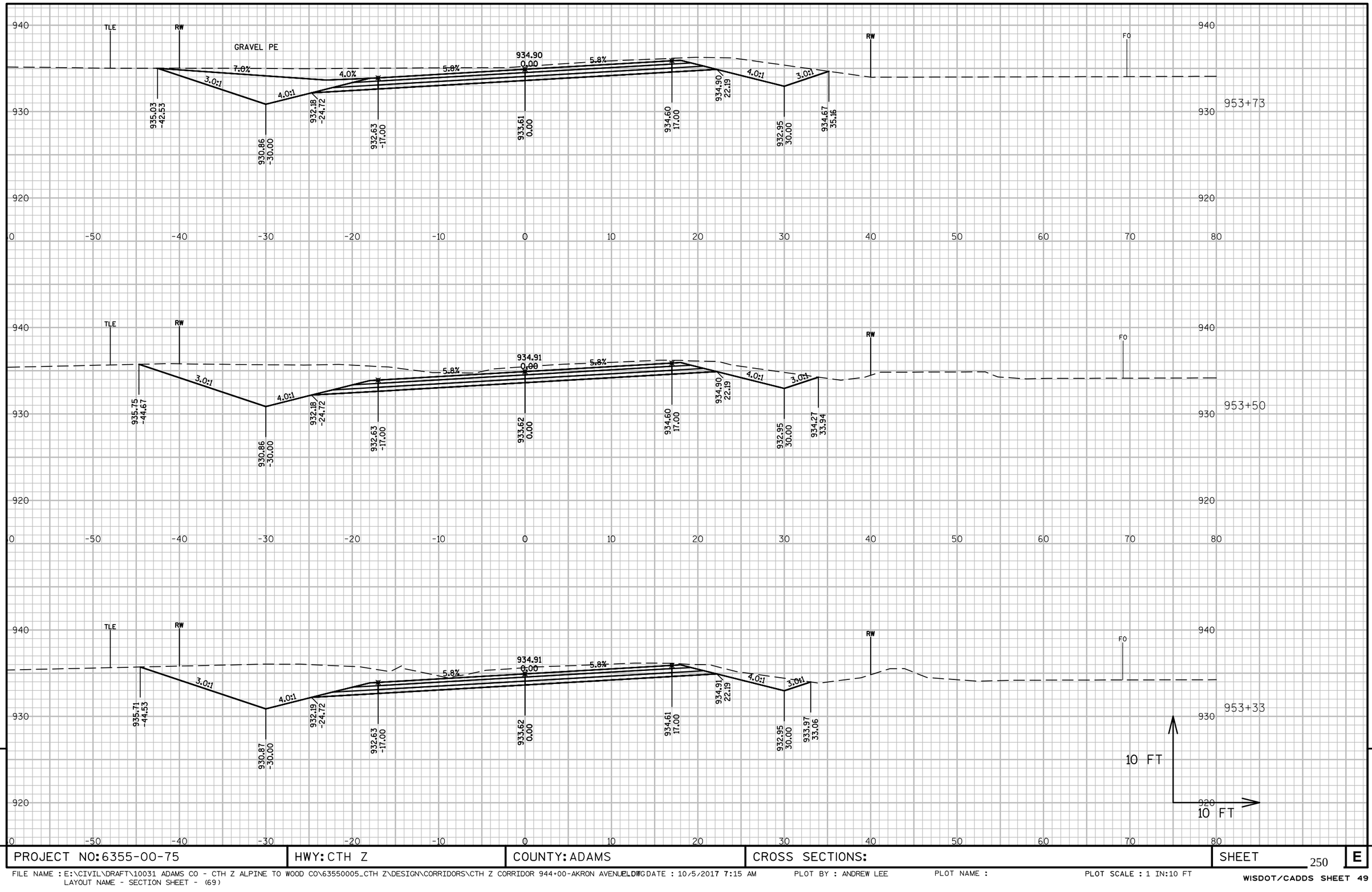
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 249	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 944+00-AKRON AVENUE.DWG
LAYOUT NAME - SECTION SHEET - (68)

PLOTDATE : 10/5/2017 7:15 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

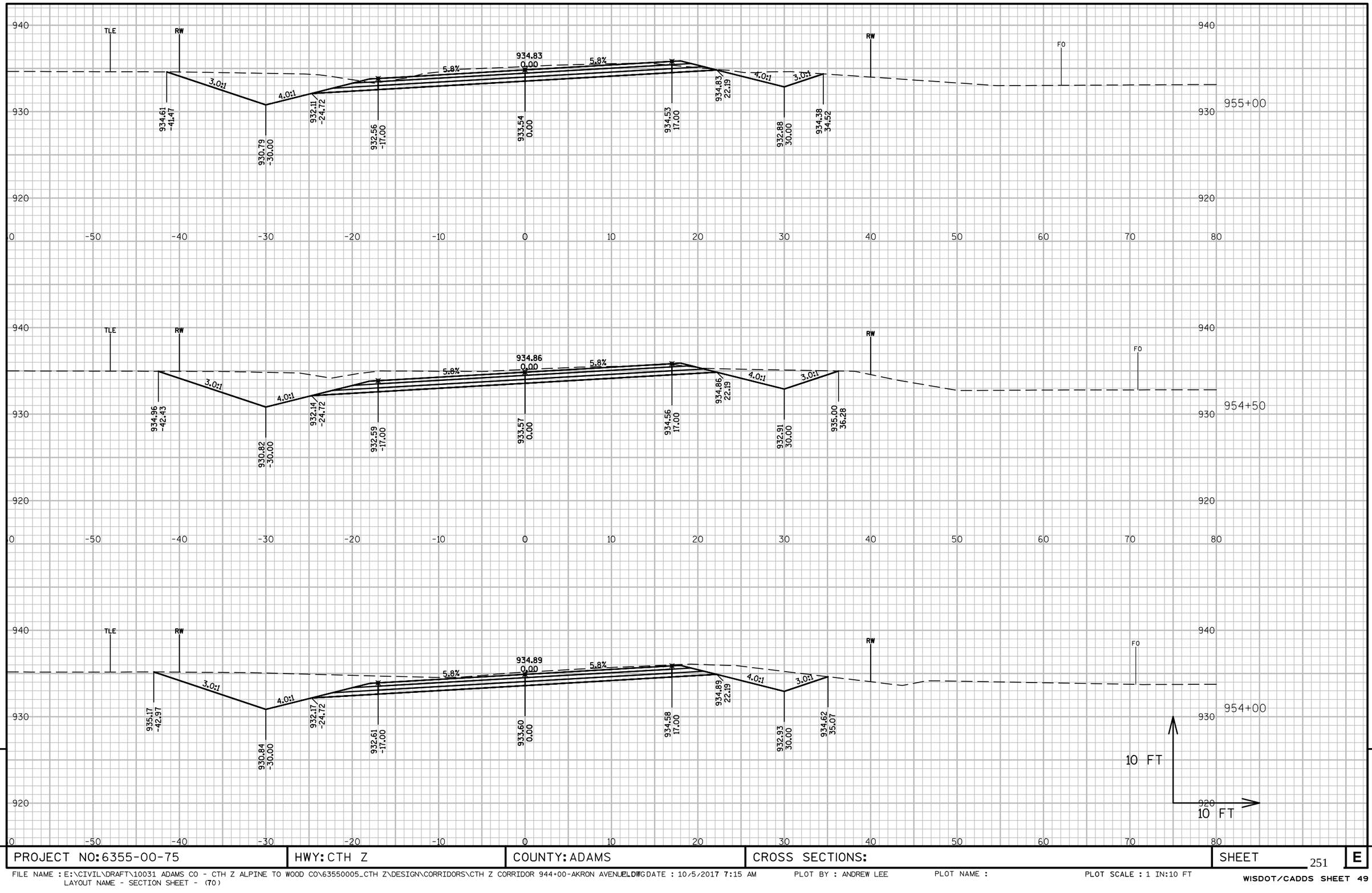
WISDOT/CADDS SHEET 49



PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 250	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 944+00-AKRON AVENUE.DWG
LAYOUT NAME - SECTION SHEET - (69)
PLOTTED : 10/5/2017 7:15 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

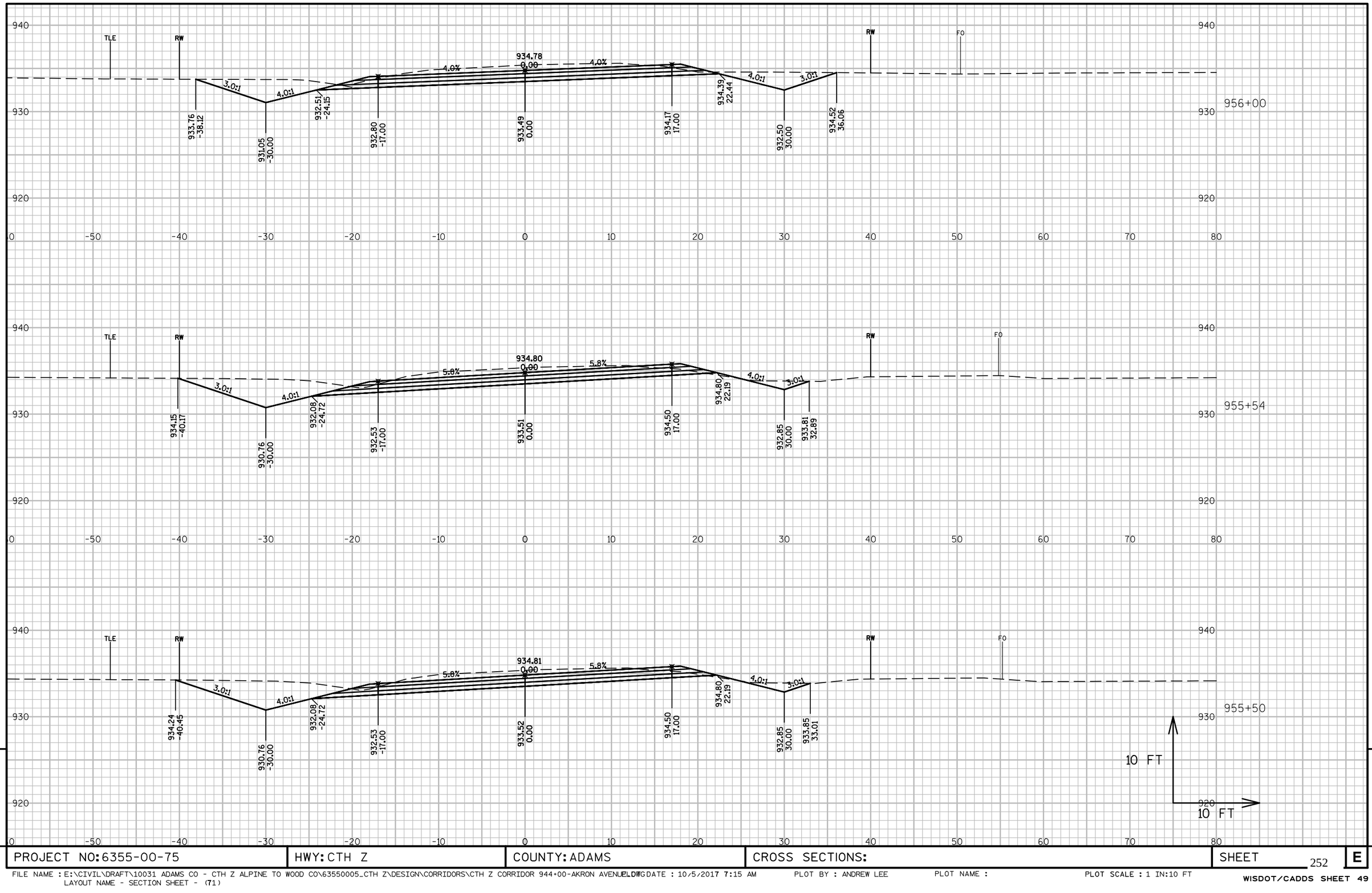
WISDOT/CADDS SHEET 49



PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 251	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 944+00-AKRON AVENUE.DWG
LAYOUT NAME - SECTION SHEET - (70)

PLOTTED : 10/5/2017 7:15 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT



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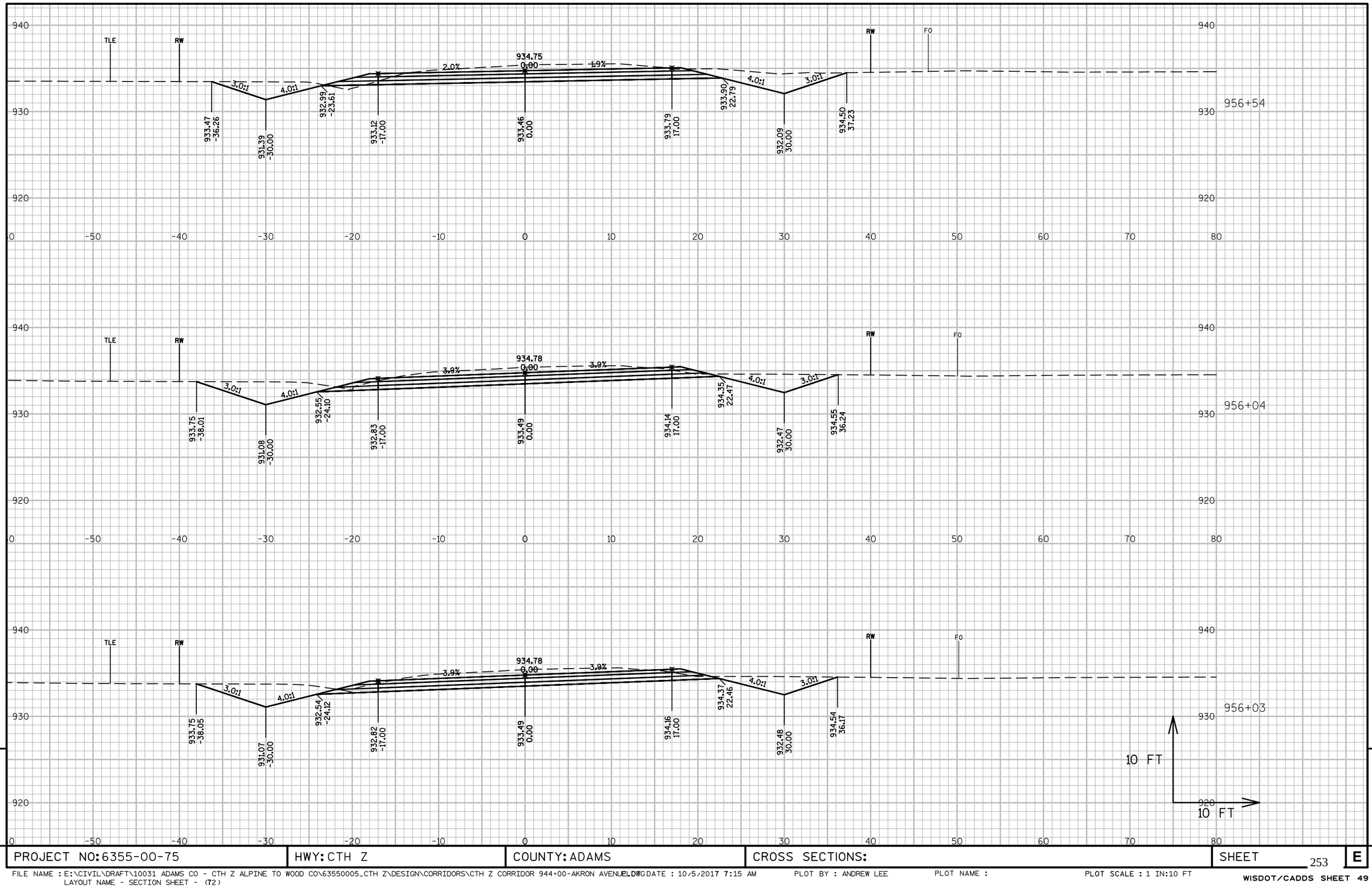
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 252	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 944+00-AKRON AVENUE.DWG
LAYOUT NAME - SECTION SHEET - (71)

PLOT DATE : 10/5/2017 7:15 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

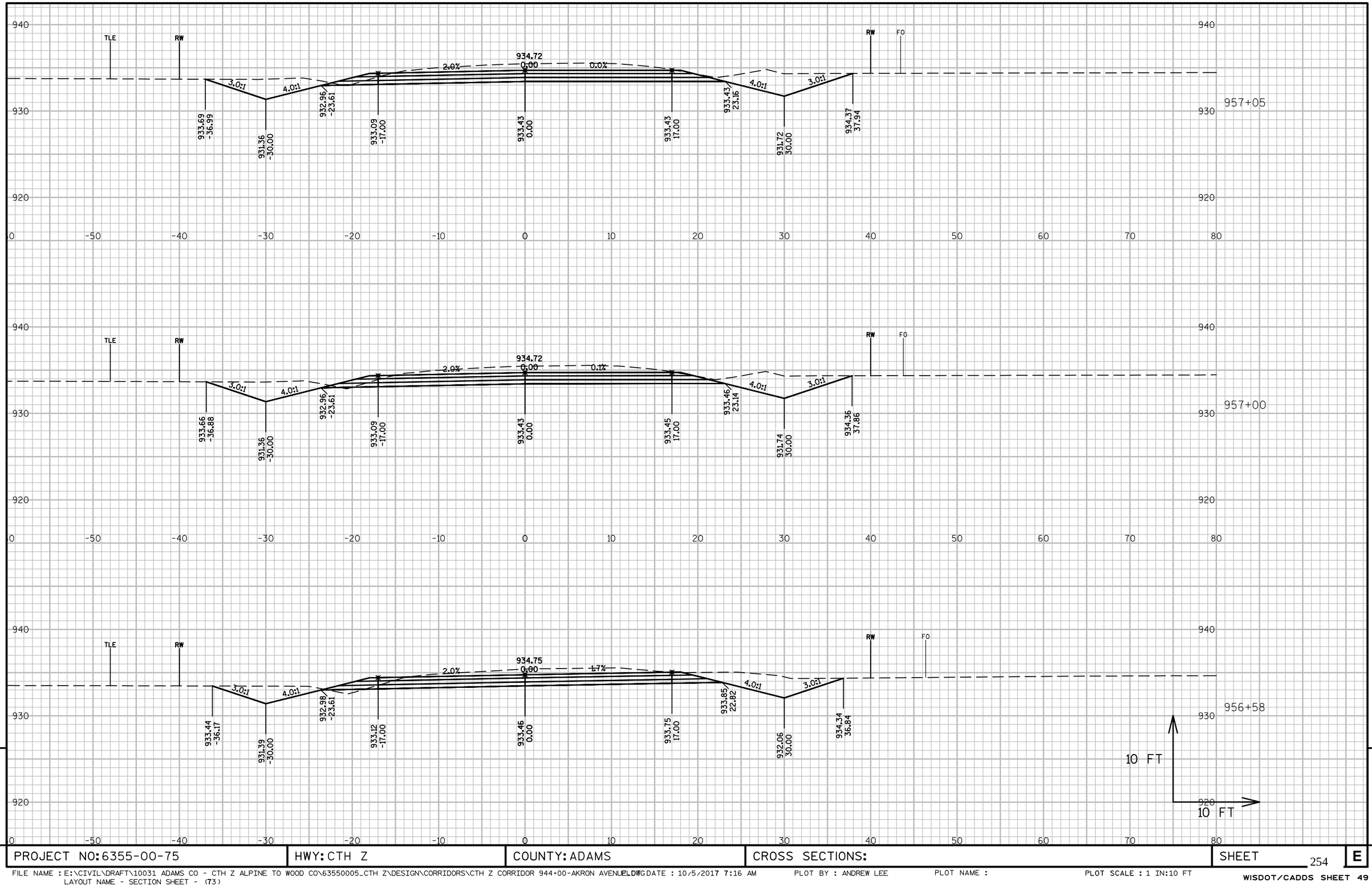


PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 253	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 944+00-AKRON AVENUE.DWG
LAYOUT NAME - SECTION SHEET - (72)

PLOTTED : 10/5/2017 7:15 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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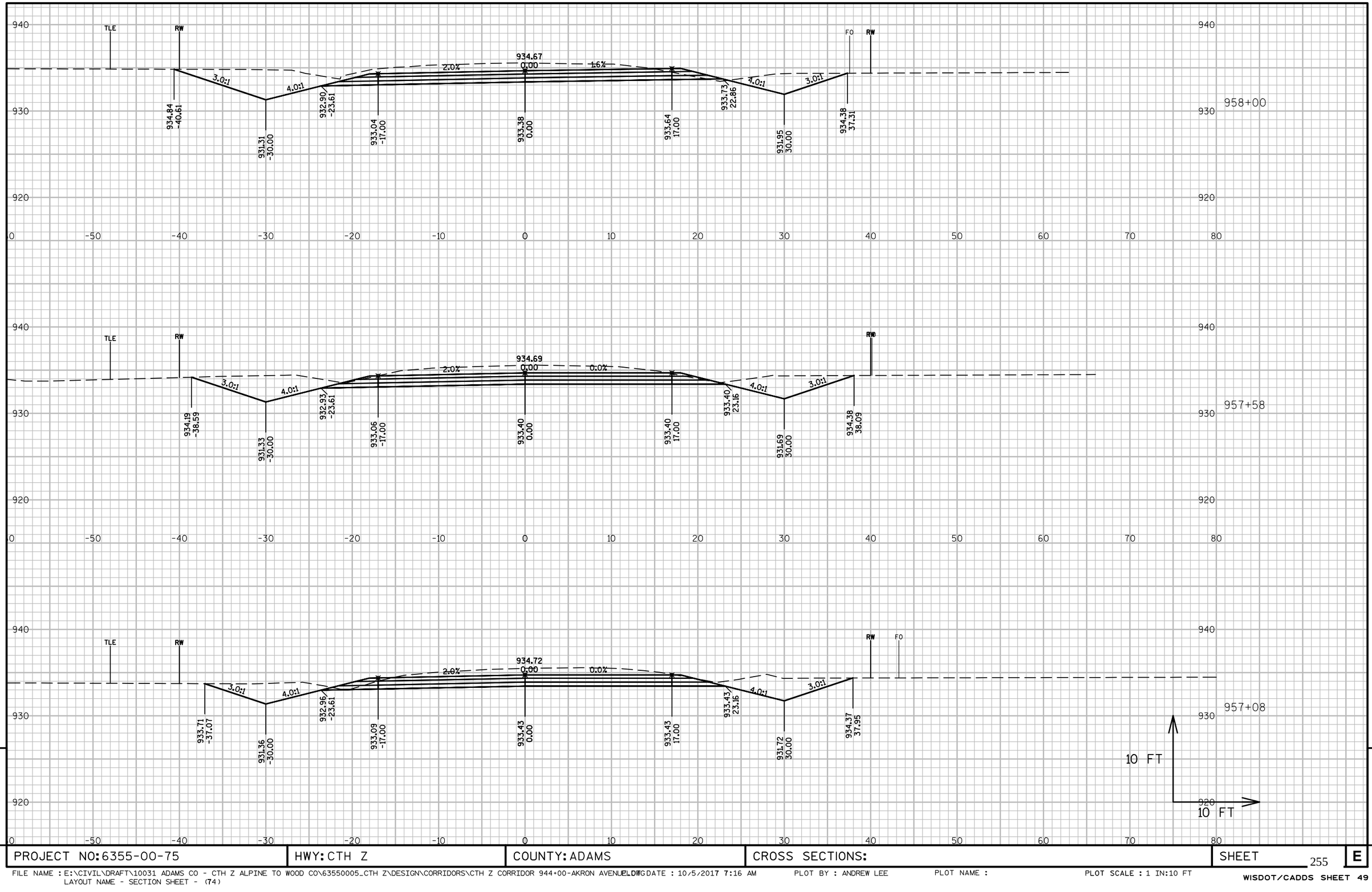
9

PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 254	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 944+00-AKRON AVENUE.DWG
LAYOUT NAME - SECTION SHEET - (73)
PLOTTED DATE : 10/5/2017 7:16 AM
PLOT BY : ANDREW LEE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



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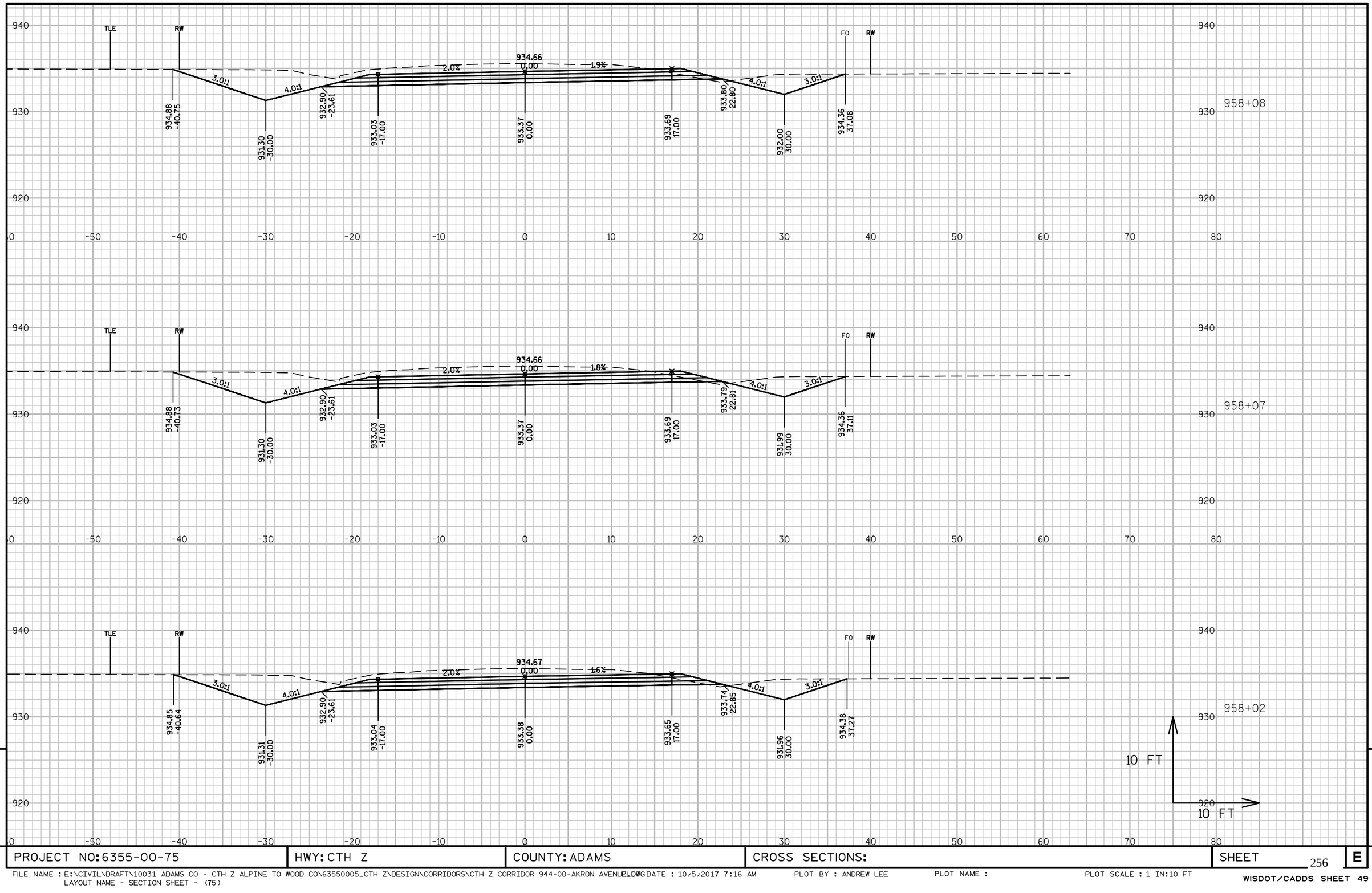
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 255	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 944+00-AKRON AVENUE.DWG
LAYOUT NAME - SECTION SHEET - (74)
PLOTTED DATE : 10/5/2017 7:16 AM
PLOT BY : ANDREW LEE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 256	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 944+00-AKRON AVENUE.DWG
LAYOUT NAME - SECTION SHEET - (75)

PLOTTED : DATE : 10/5/2017 7:16 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

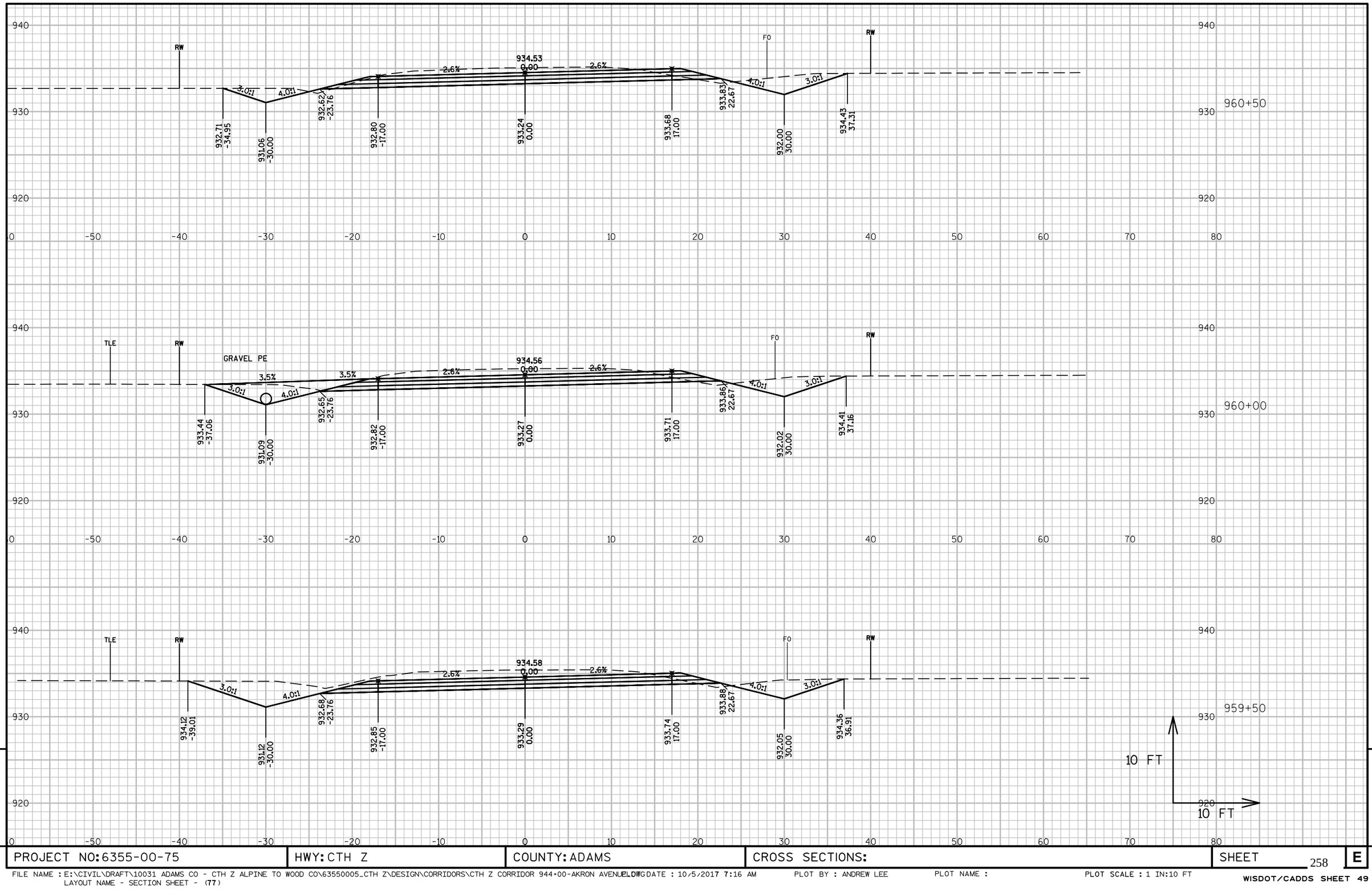
WISDOT/CADDS SHEET 49

PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 257	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 944+00-AKRON AVENUE.DWG
LAYOUT NAME - SECTION SHEET - (76)

PLOTTED : DATE : 10/5/2017 7:16 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

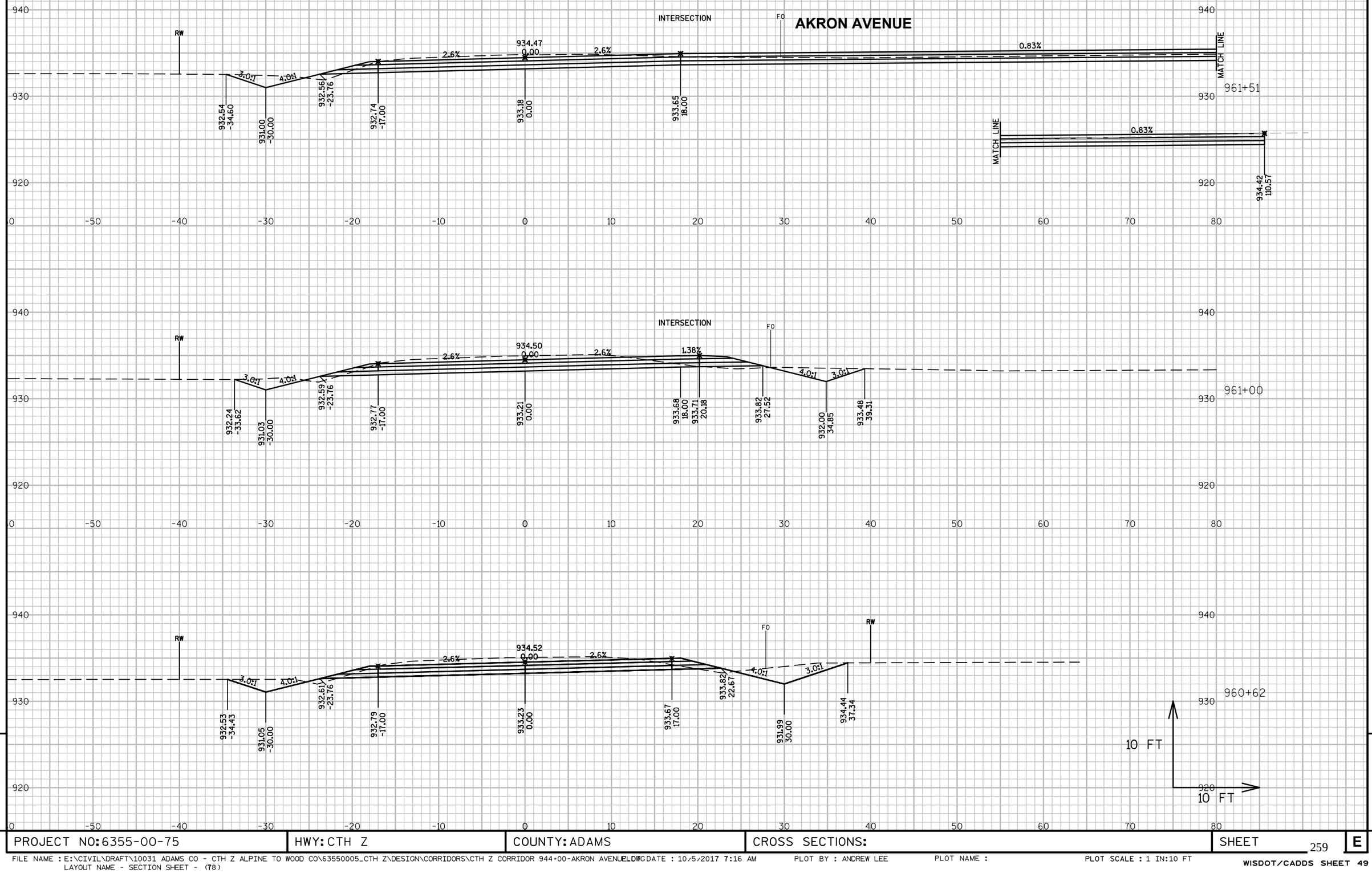


PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 258	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 944+00-AKRON AVENUE.DWG DATE : 10/5/2017 7:16 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT
LAYOUT NAME - SECTION SHEET - (77)

WISDOT/CADDS SHEET 49

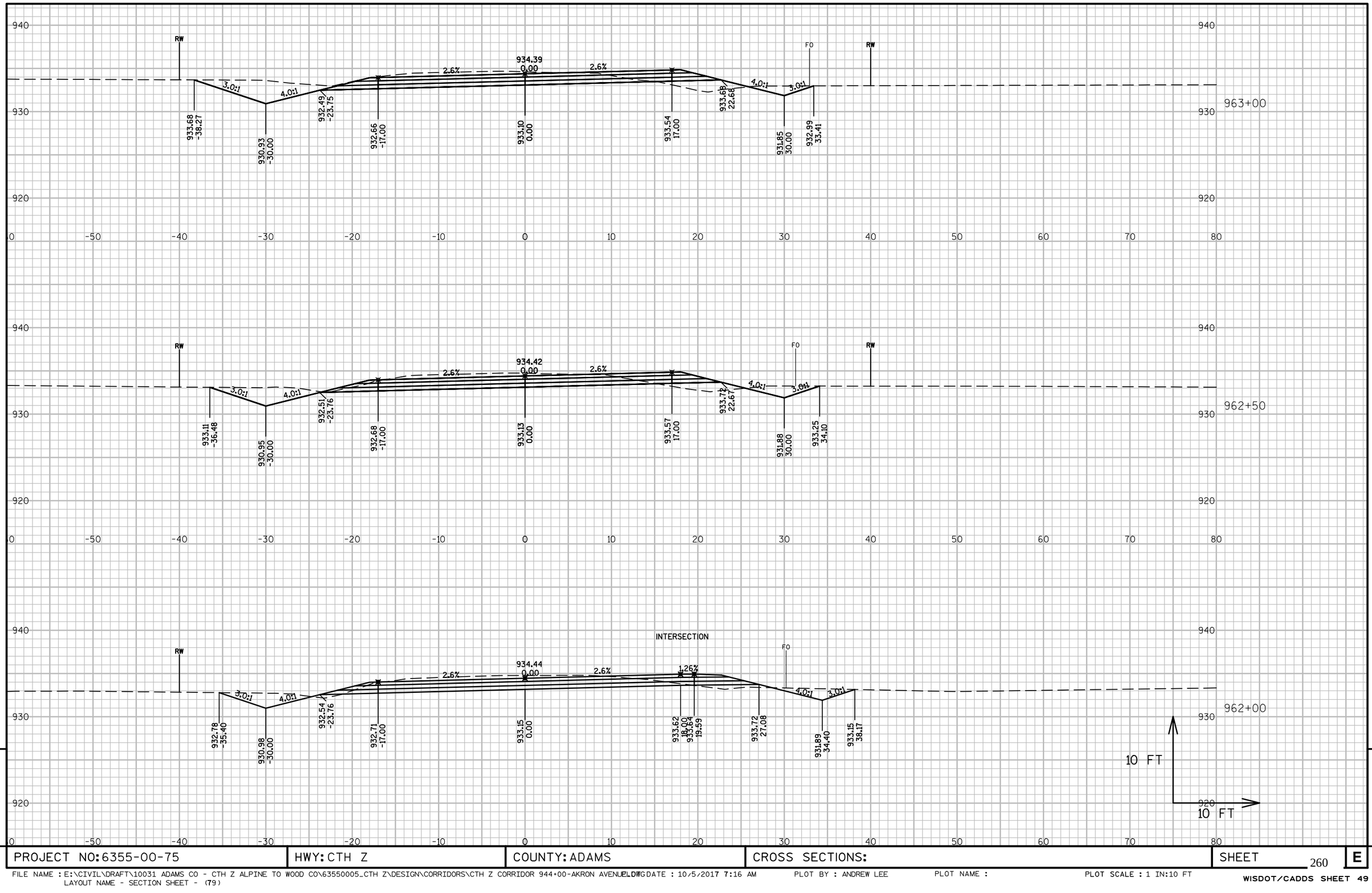
AKRON AVENUE



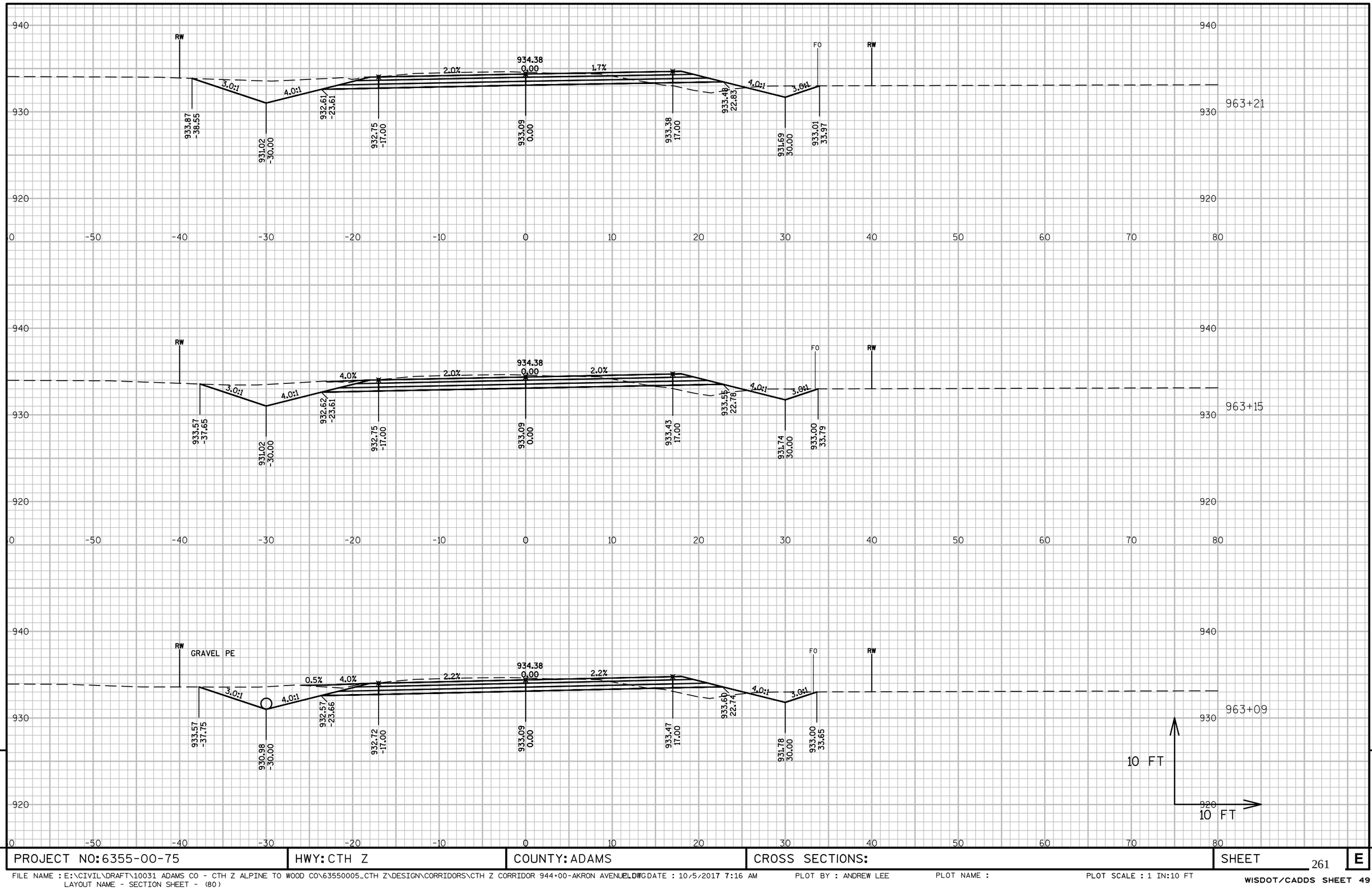
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 259	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 944+00-AKRON AVENUE.DWG DATE : 10/5/2017 7:16 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT
LAYOUT NAME - SECTION SHEET - (78)

WISDOT/CADDS SHEET 49



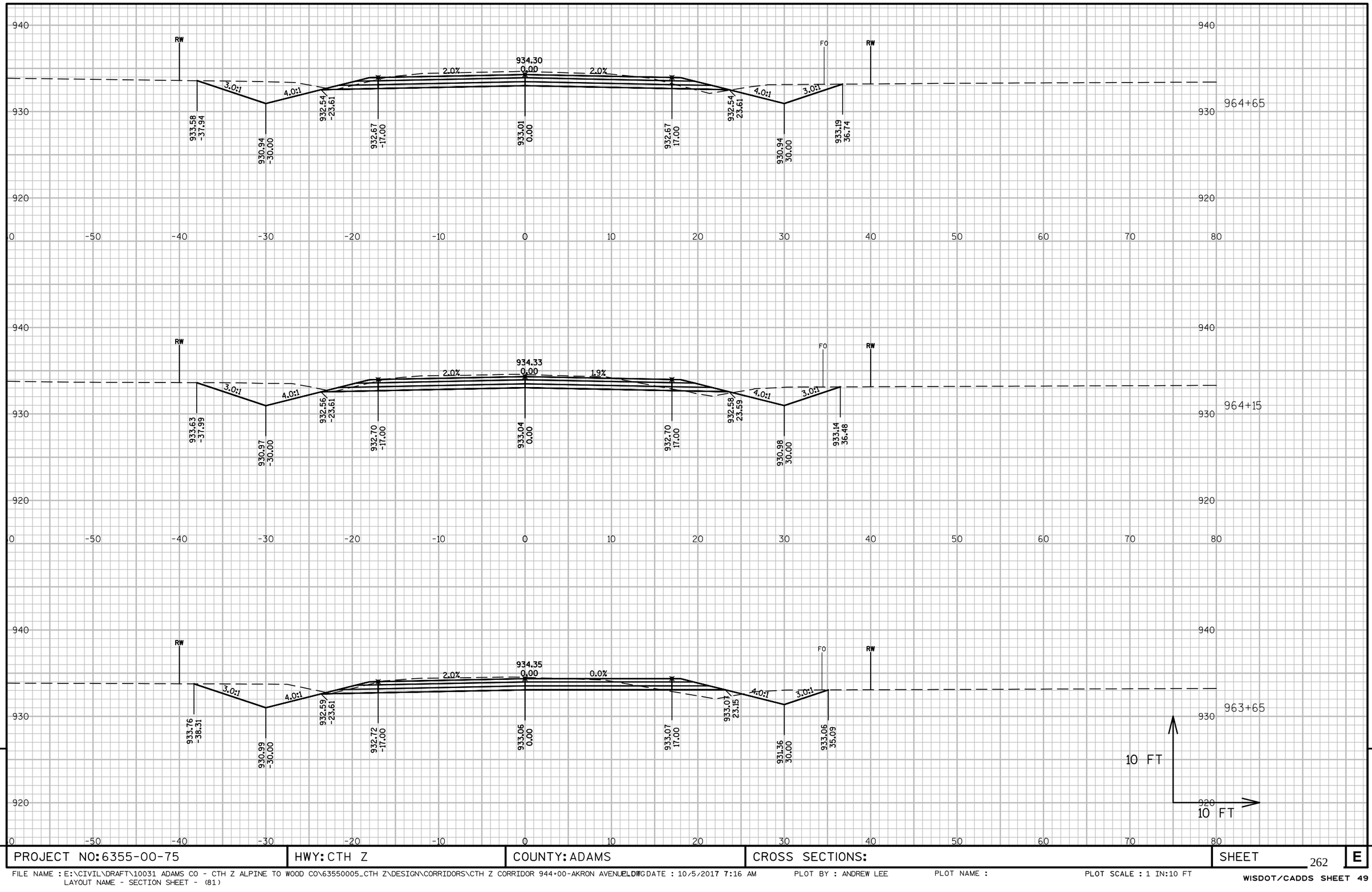
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 260 E



PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 261	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 944+00-AKRON AVENUE.DWG DATE : 10/5/2017 7:16 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT
LAYOUT NAME - SECTION SHEET - (80)

WISDOT/CADDS SHEET 49



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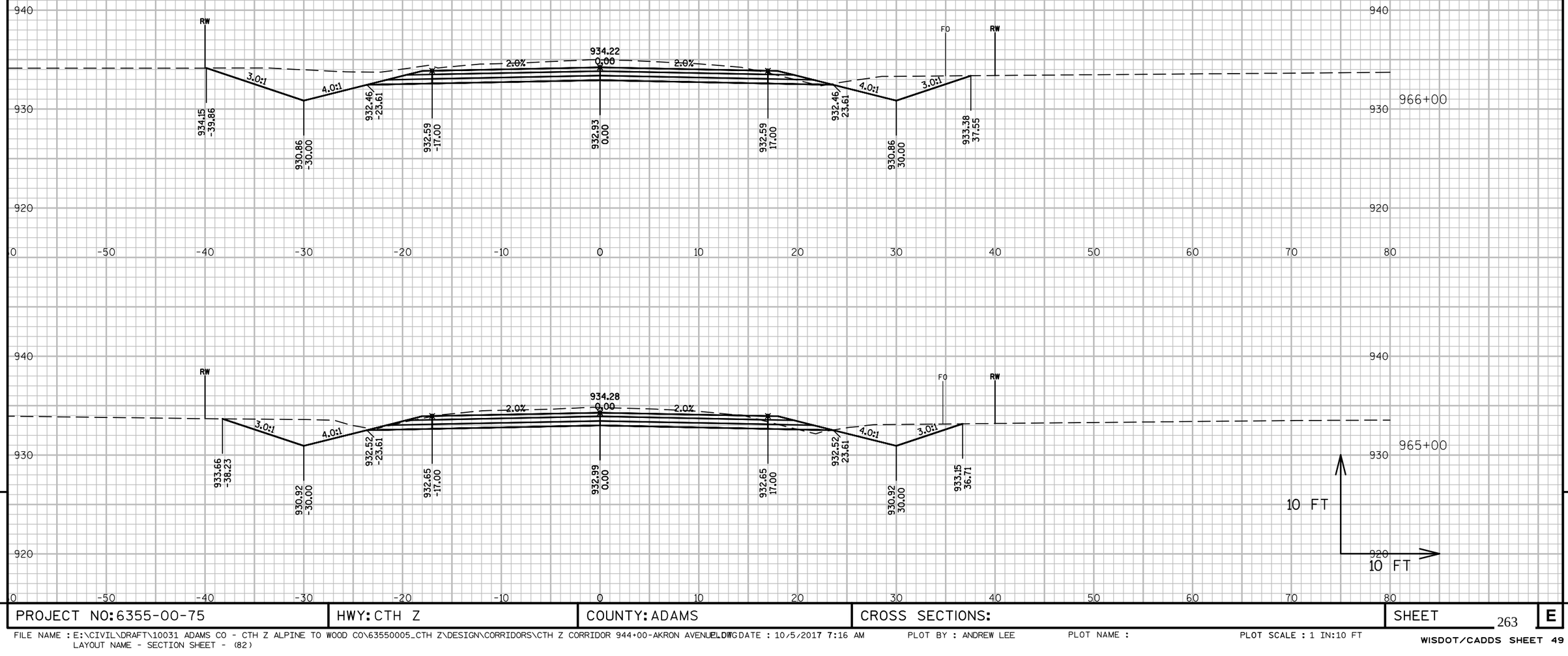
9

PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 262	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 944+00-AKRON AVENUE.DWG
LAYOUT NAME - SECTION SHEET - (81)

PLOTTED DATE : 10/5/2017 7:16 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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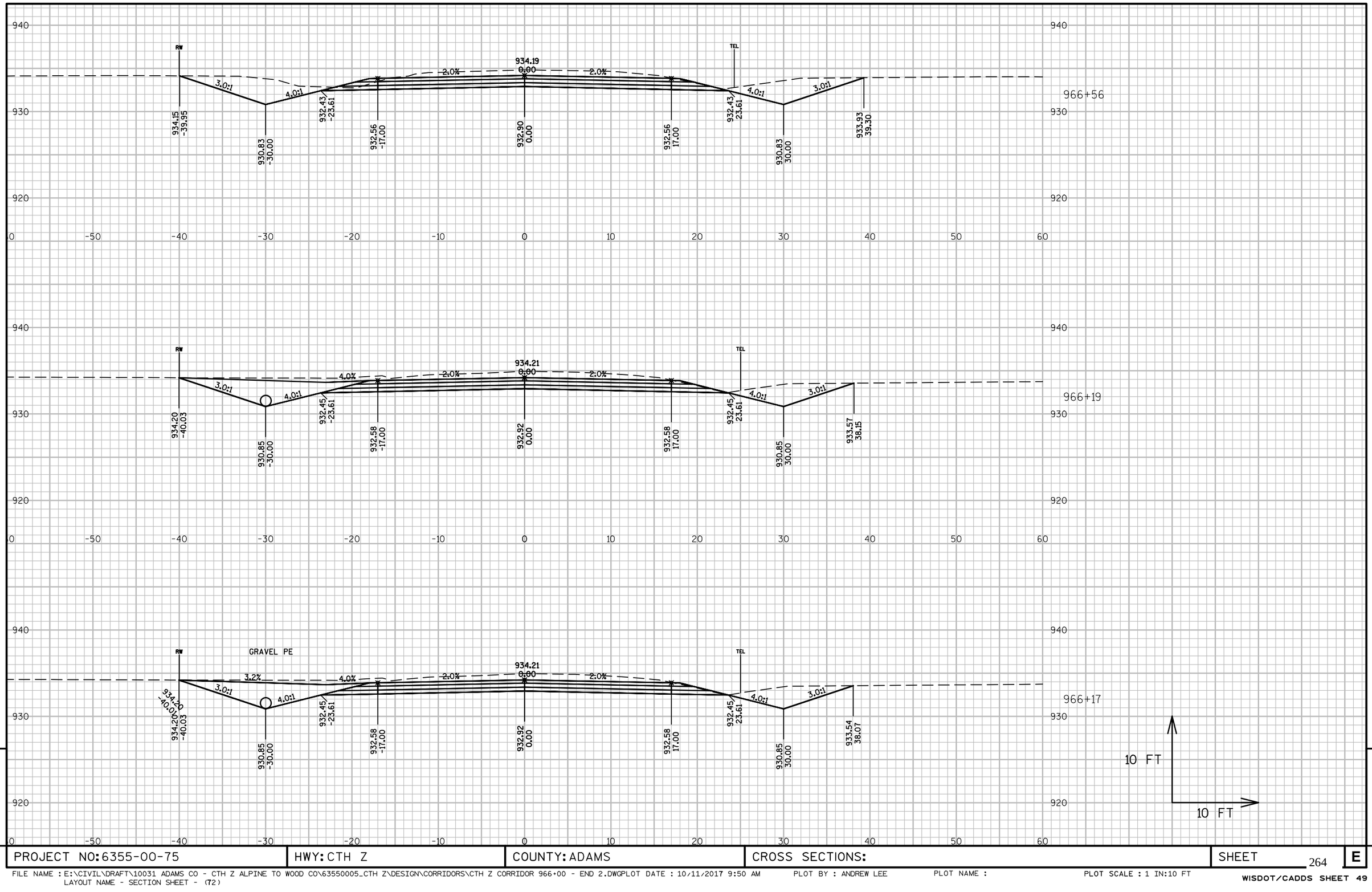
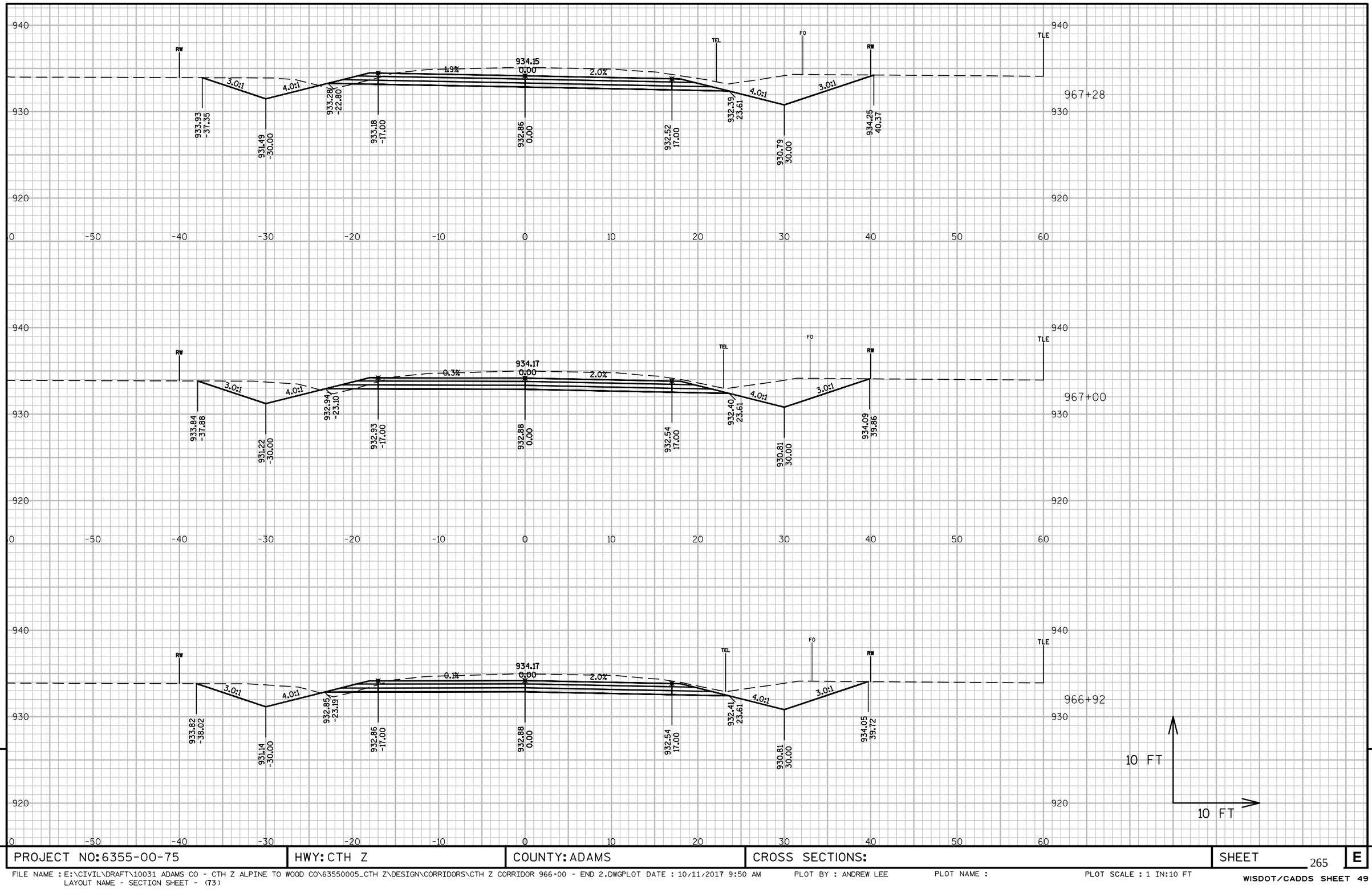
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 263	E



PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 264	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/11/2017 9:50 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT
LAYOUT NAME - SECTION SHEET - (72)

WISDOT/CADDS SHEET 49



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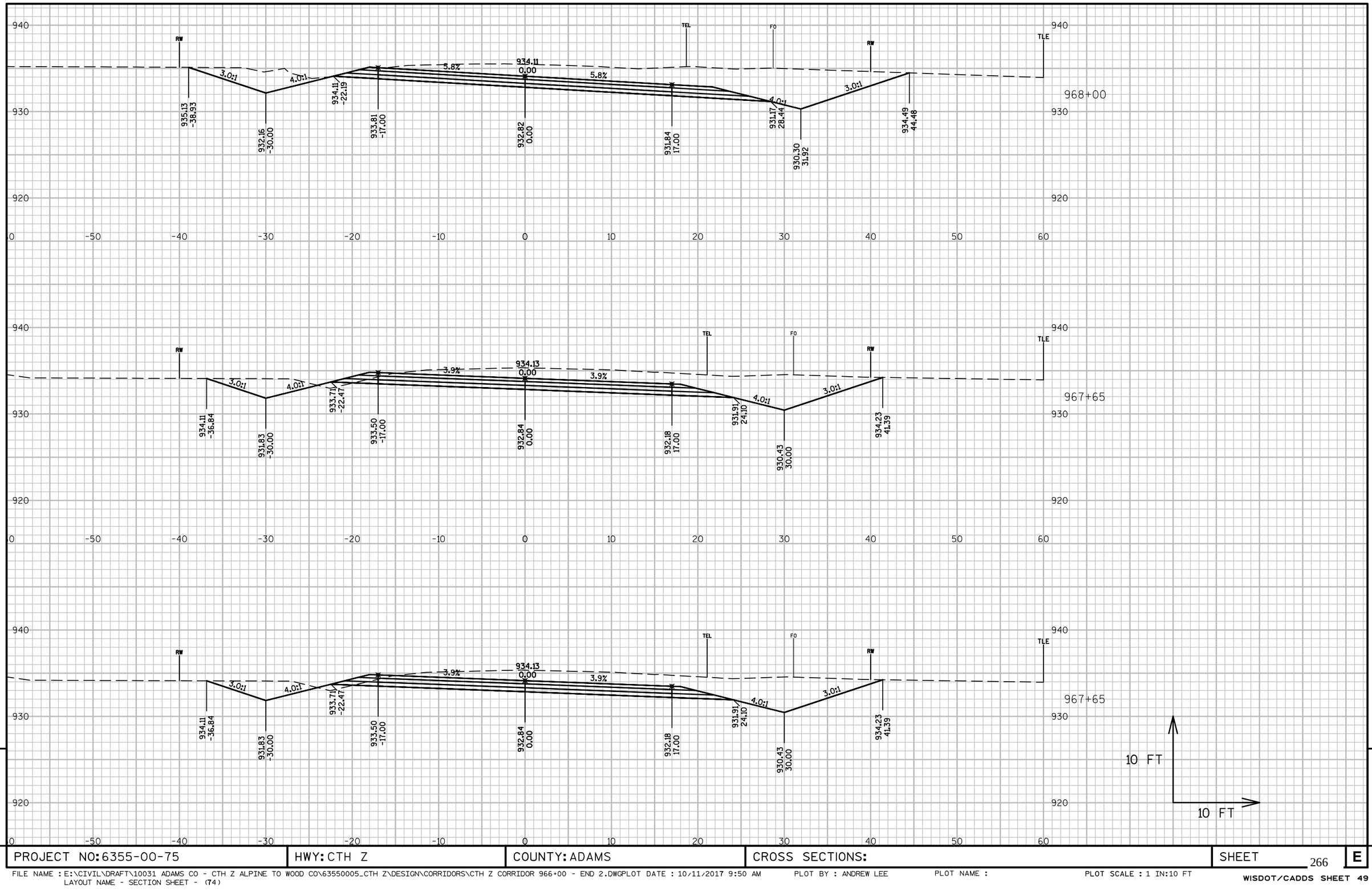
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 265	E



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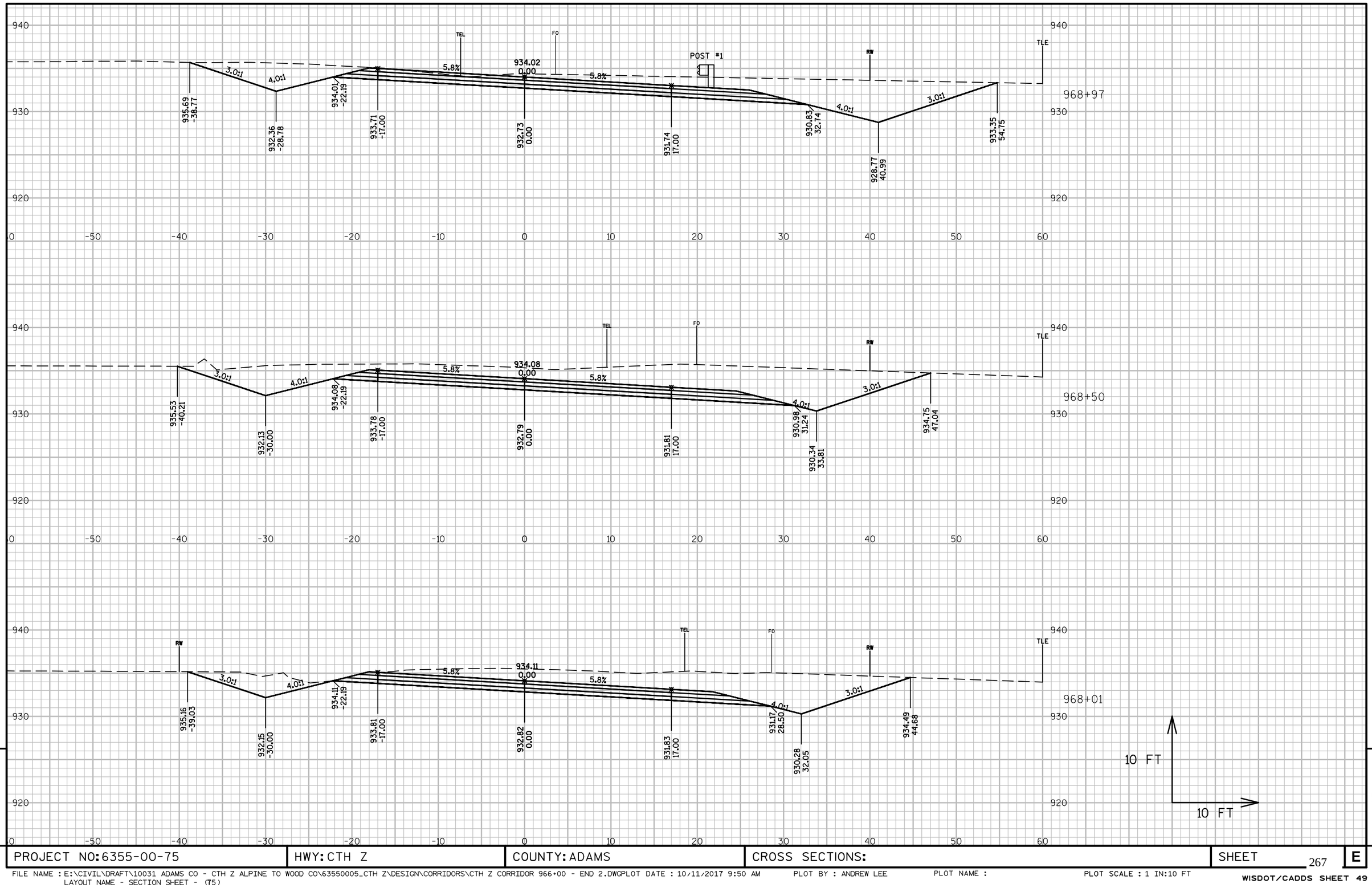
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 266	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/11/2017 9:50 AM
LAYOUT NAME - SECTION SHEET - (74)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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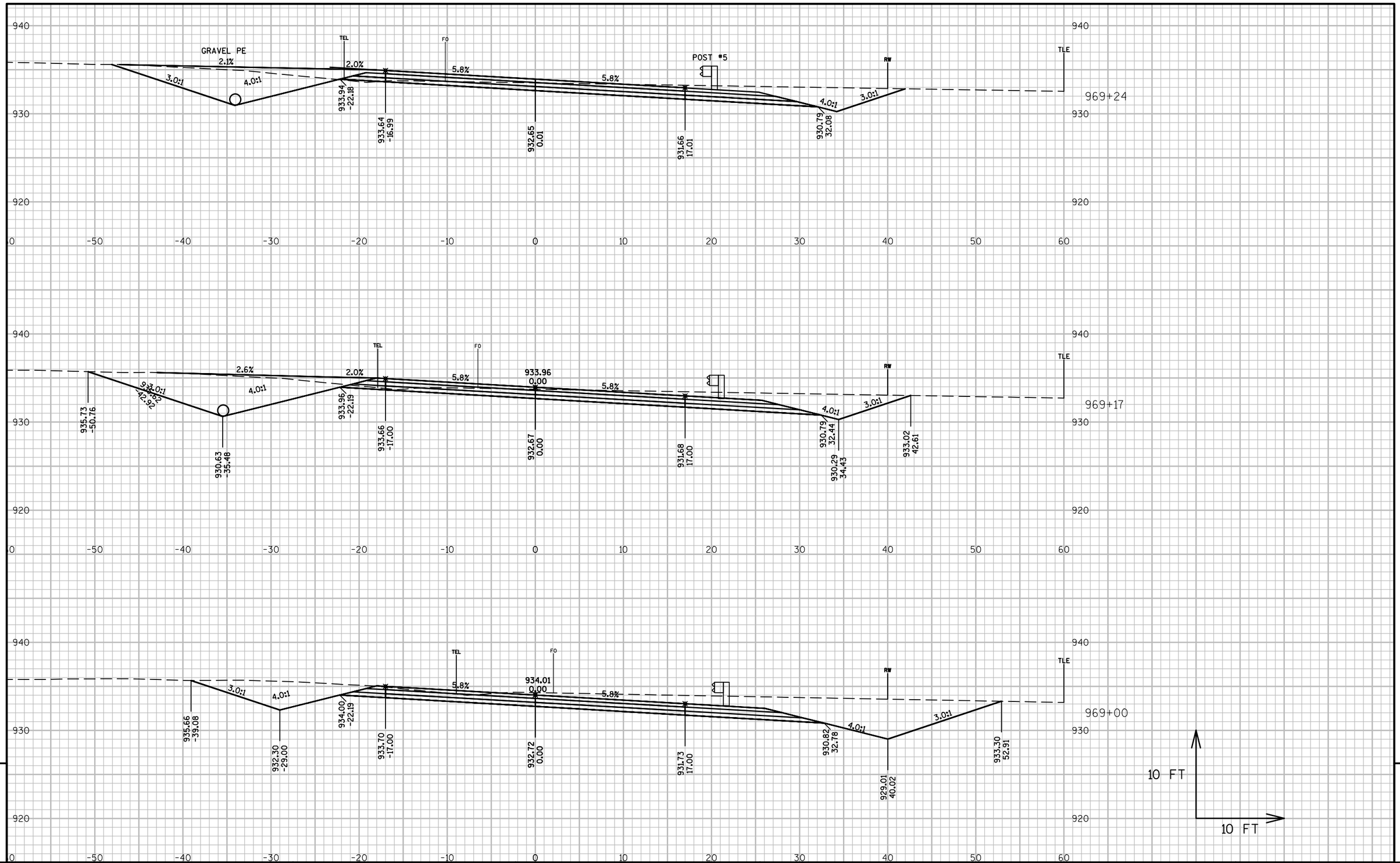
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 267	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/11/2017 9:50 AM
LAYOUT NAME - SECTION SHEET - (75)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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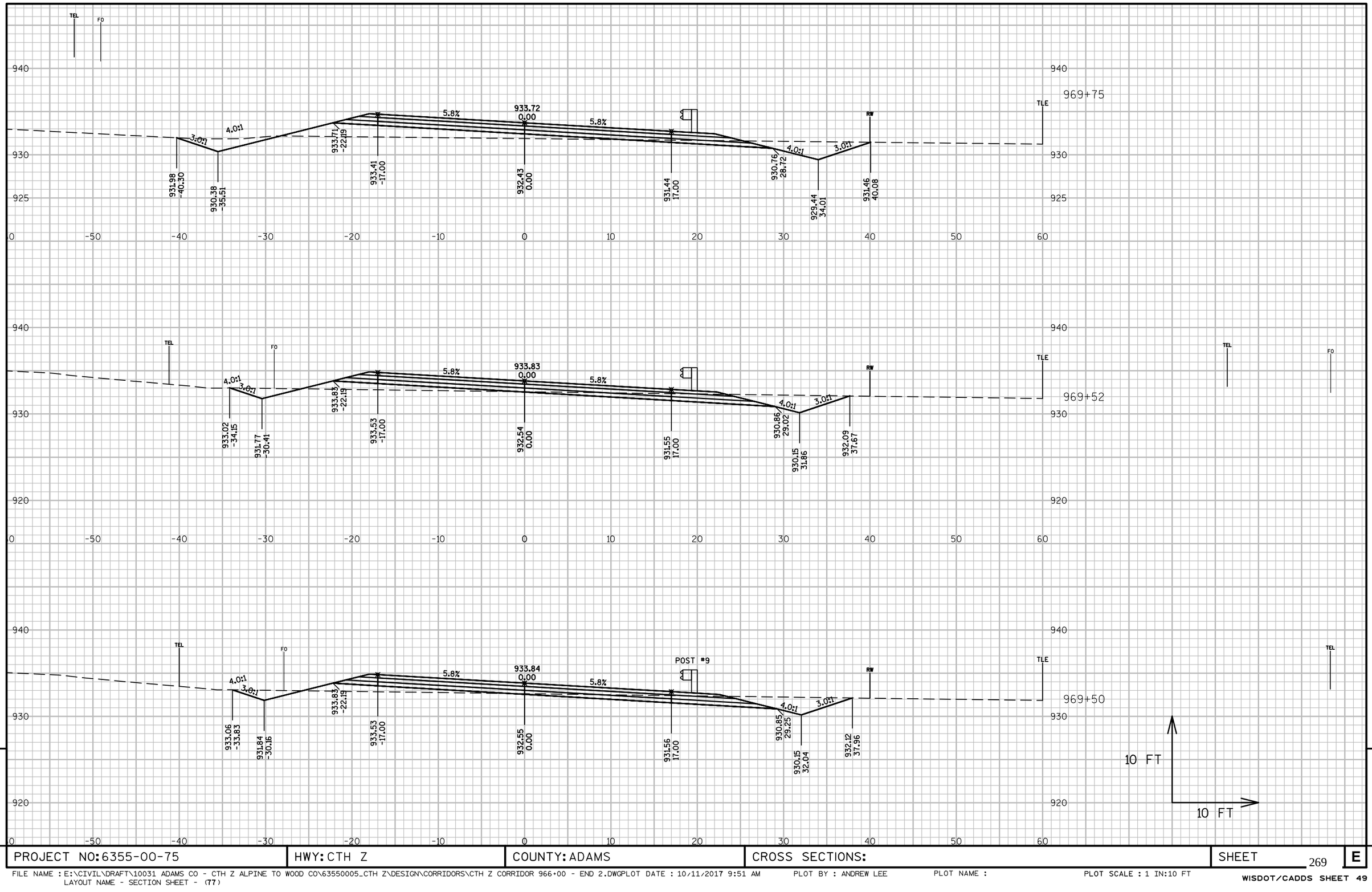
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 268	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/11/2017 9:51 AM
LAYOUT NAME - SECTION SHEET - (76)
PLOT BY : ANDREW LEE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



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PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 269	E

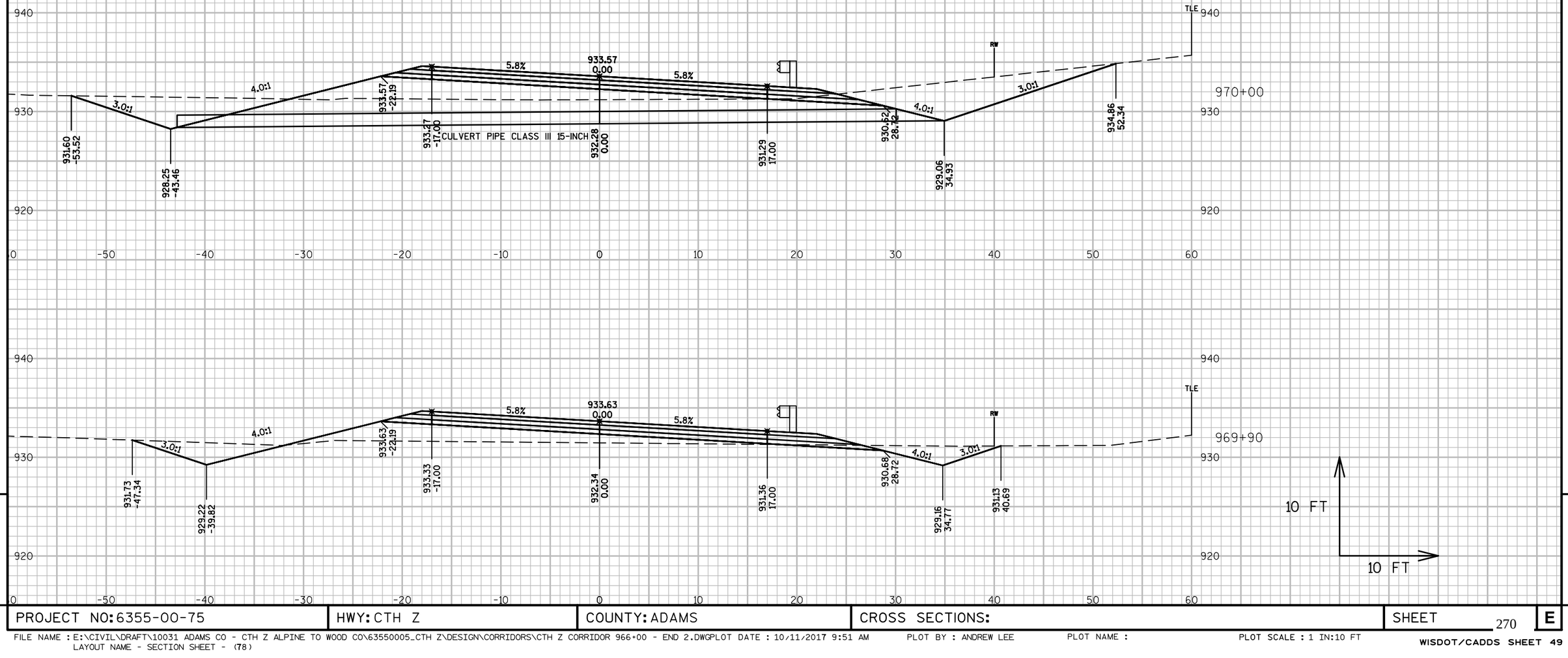
FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/11/2017 9:51 AM
LAYOUT NAME - SECTION SHEET - (77)

PLOT BY : ANDREW LEE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

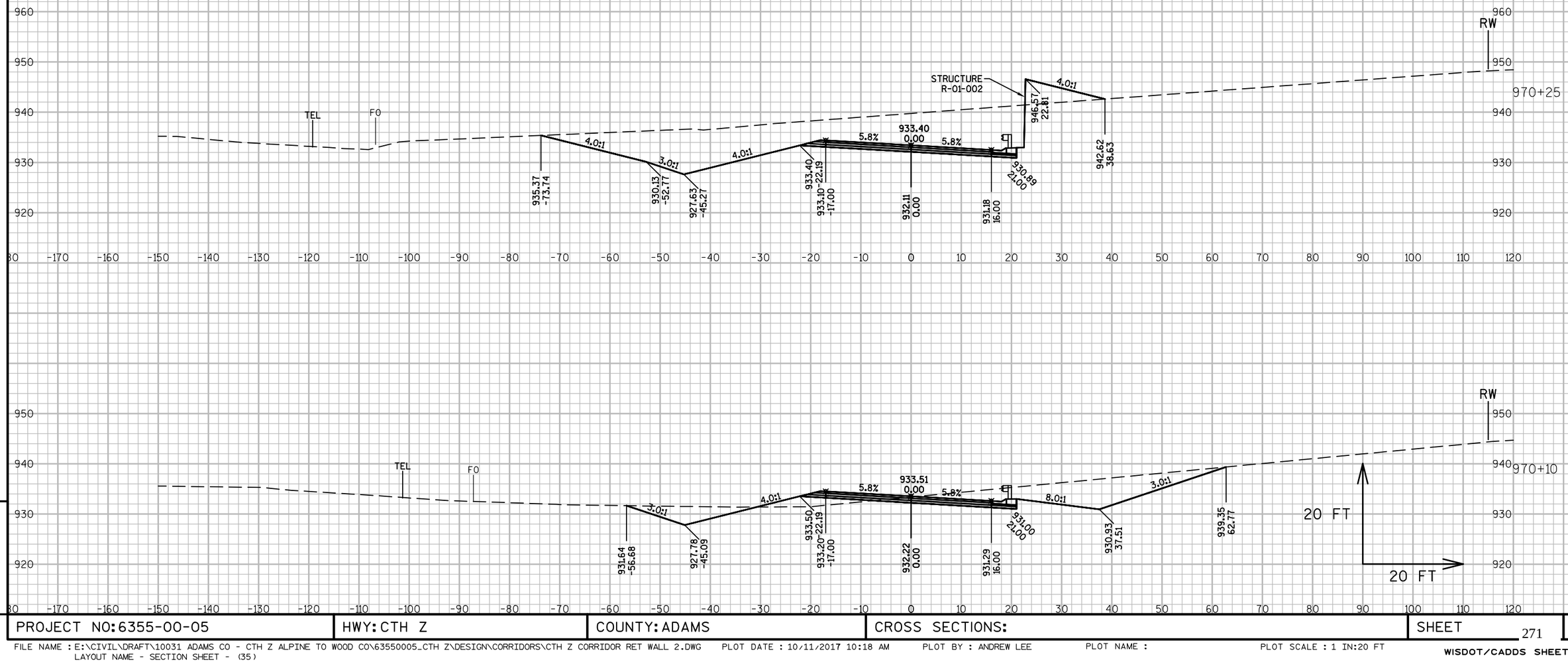


PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 270	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/11/2017 9:51 AM
LAYOUT NAME - SECTION SHEET - (78)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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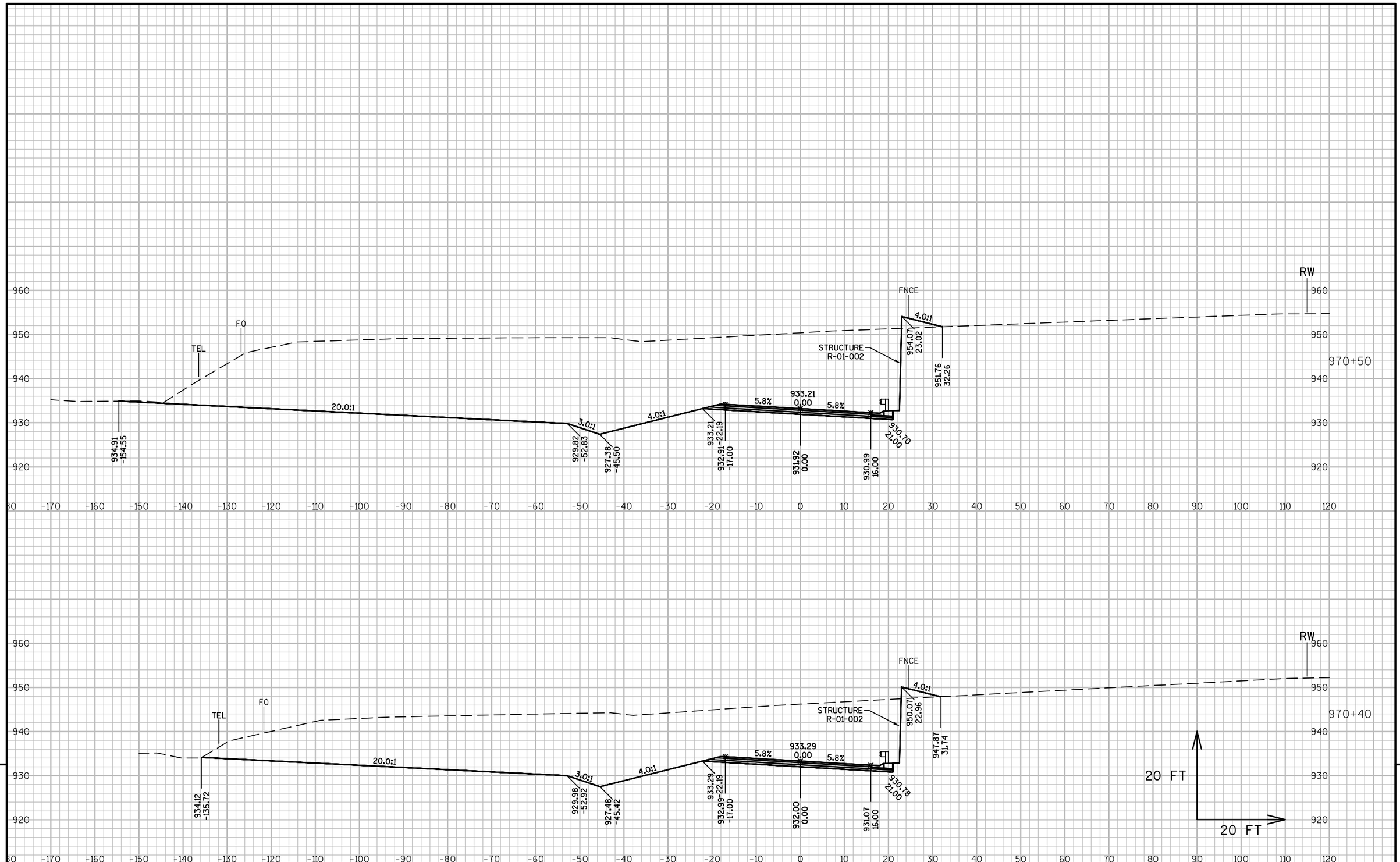
PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 271	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR RET WALL 2.DWG
LAYOUT NAME - SECTION SHEET - (35)

PLOT DATE : 10/11/2017 10:18 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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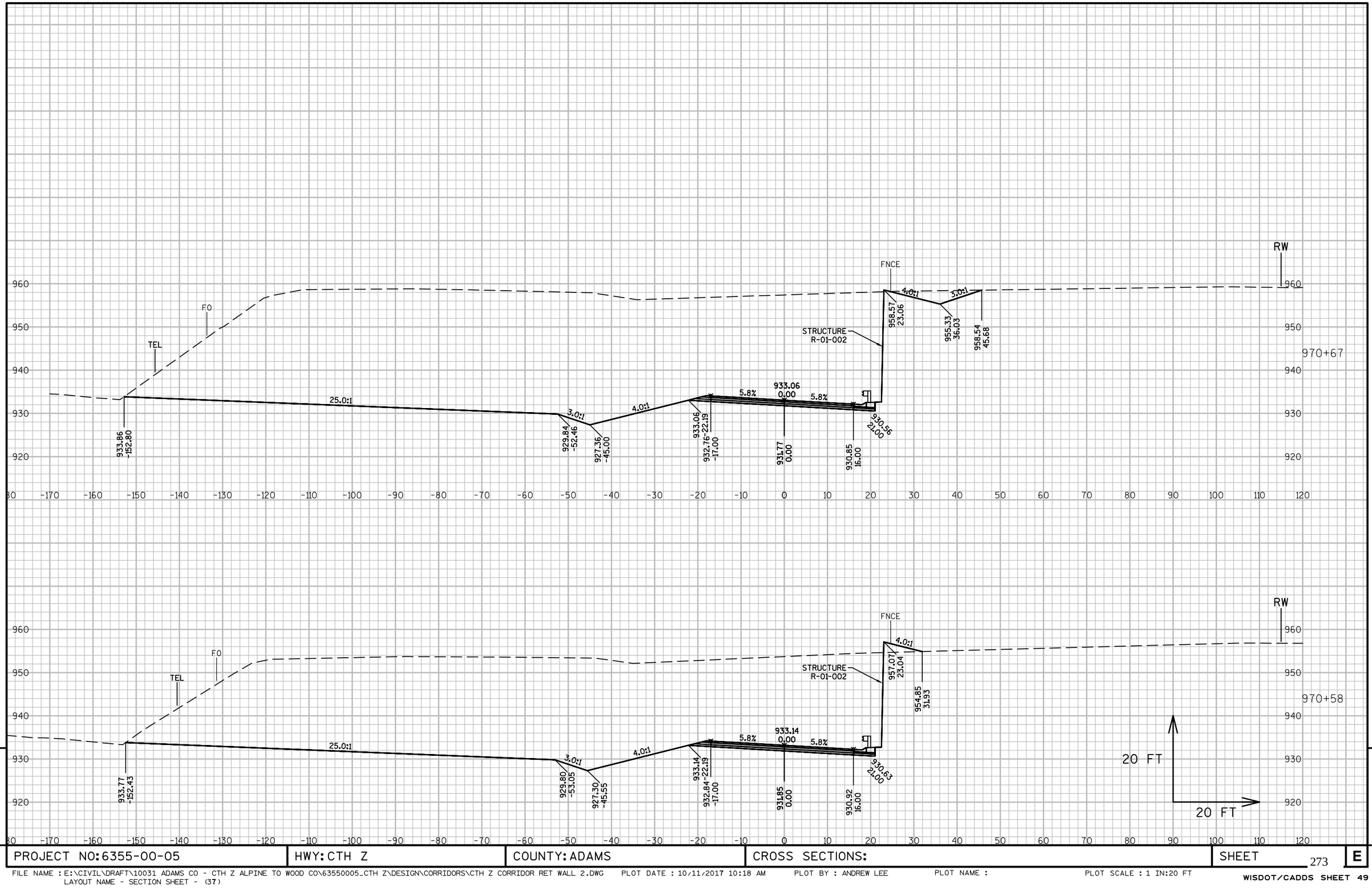
PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 272	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR RET WALL 2.DWG PLOT DATE : 10/11/2017 10:18 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:20 FT
LAYOUT NAME - SECTION SHEET - (36)

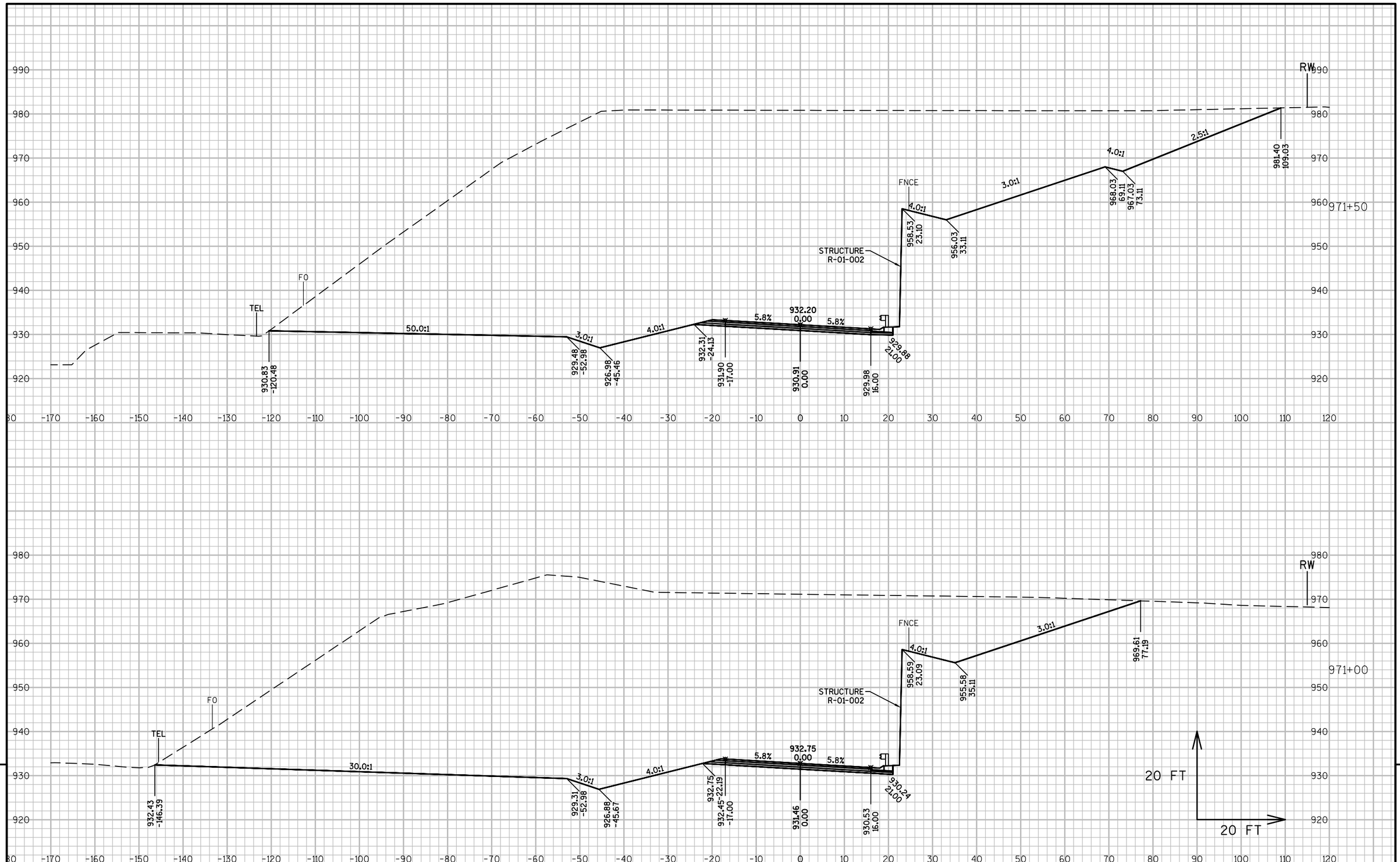


9 9

PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 273	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR RET WALL 2.DWG PLOT DATE : 10/11/2017 10:18 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:20 FT
LAYOUT NAME - SECTION SHEET - (37)

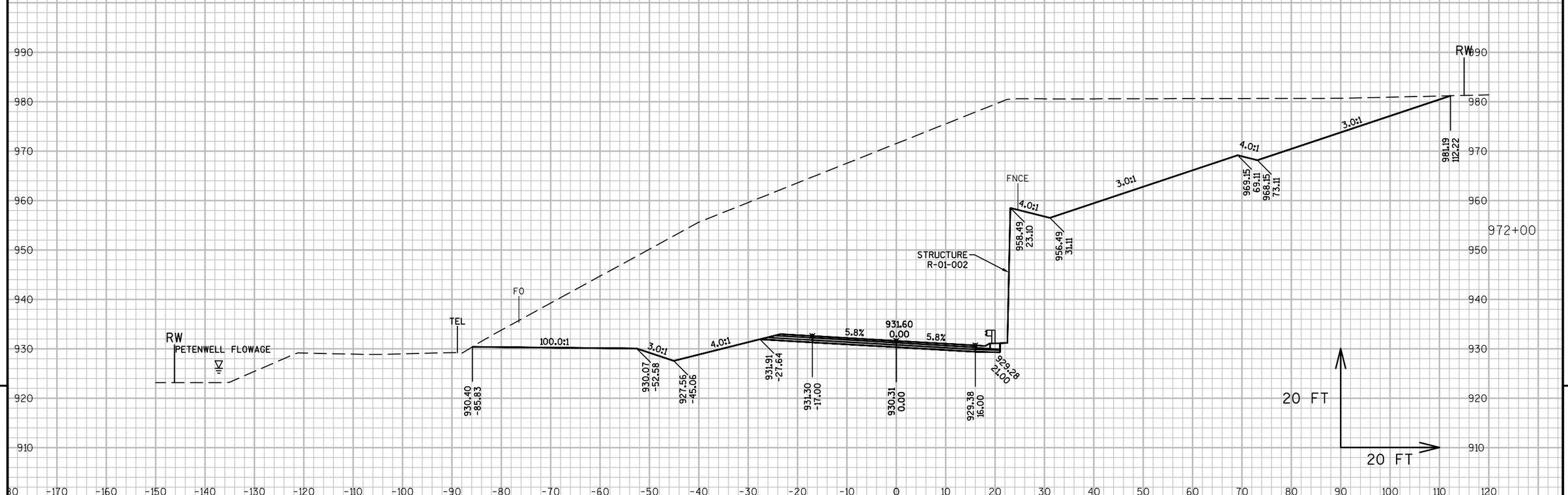
WISDOT/CADDS SHEET 49



PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 274 E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR RET WALL 2.DWG PLOT DATE : 10/11/2017 10:18 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:20 FT
LAYOUT NAME - SECTION SHEET - (38)

WISDOT/CADDS SHEET 49



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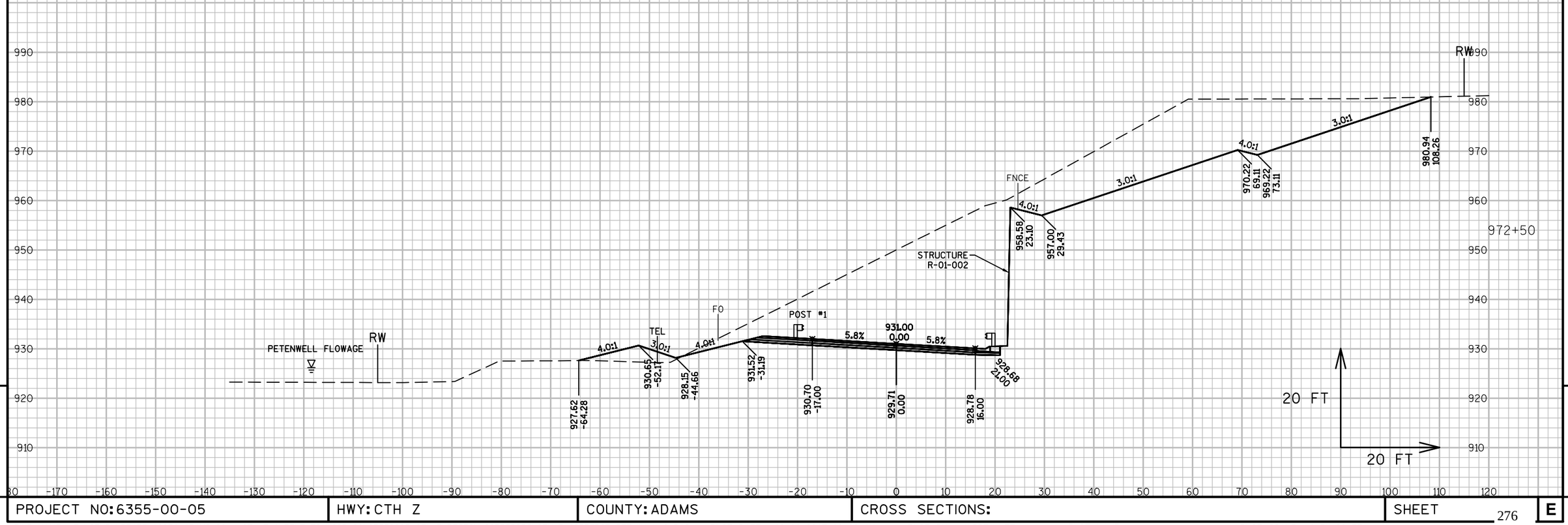
PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 275	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR RET WALL 2.DWG PLOT DATE : 10/11/2017 10:18 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:20 FT
LAYOUT NAME - SECTION SHEET - (39)

WISDOT/CADDS SHEET 49



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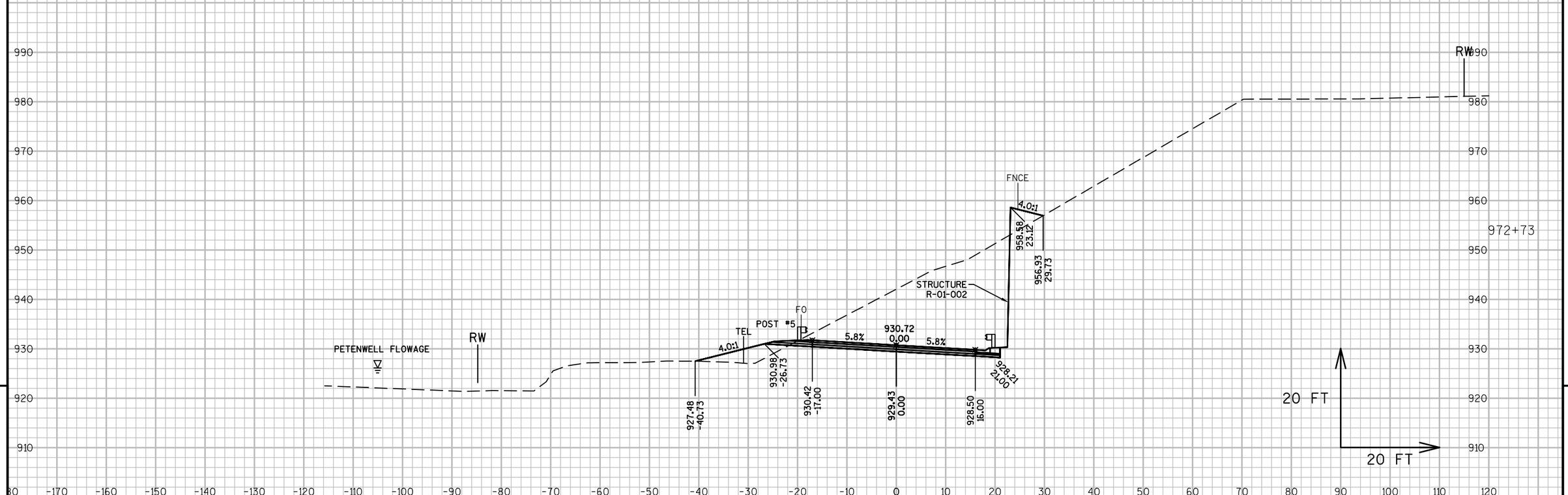
PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 276	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR RET WALL 2.DWG
LAYOUT NAME - SECTION SHEET - (40)

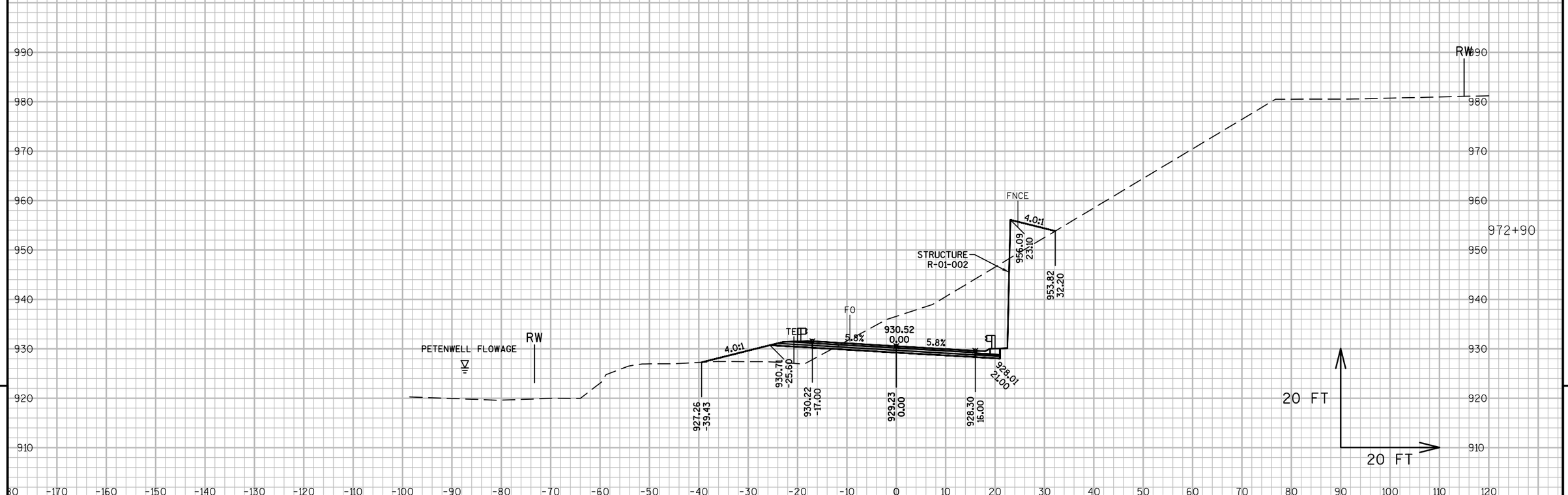
PLOT DATE : 10/11/2017 10:18 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:20 FT



PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 277 E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR RET WALL 2.DWG
LAYOUT NAME - SECTION SHEET - (41)
PLOT DATE : 10/11/2017 10:18 AM
PLOT BY : ANDREW LEE
PLOT NAME :
PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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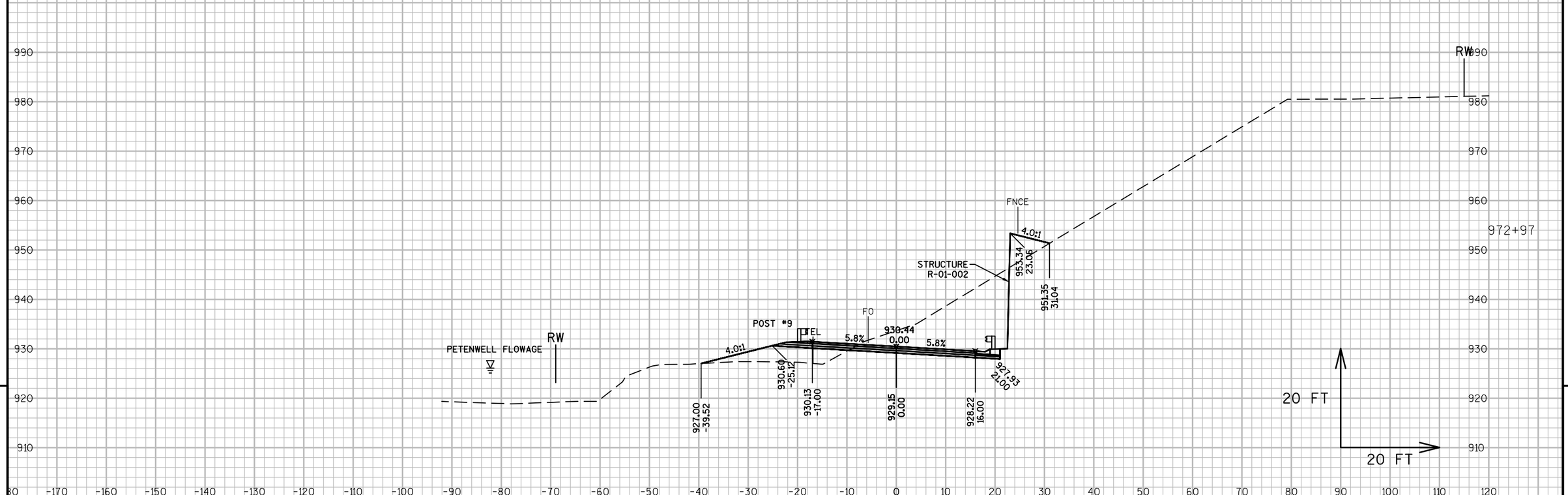
PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 278	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR RET WALL 2.DWG
LAYOUT NAME - SECTION SHEET - (42)
PLOT DATE : 10/11/2017 10:18 AM
PLOT BY : ANDREW LEE
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



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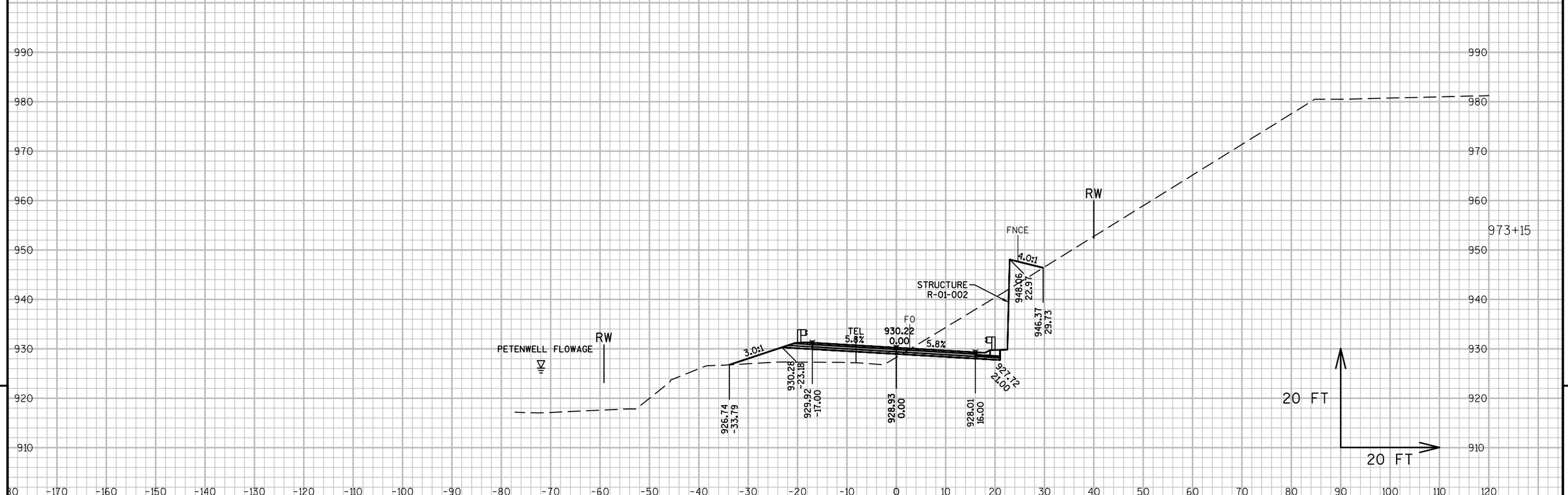
PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 279	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR RET WALL 2.DWG
LAYOUT NAME - SECTION SHEET - (43)

PLOT DATE : 10/11/2017 10:18 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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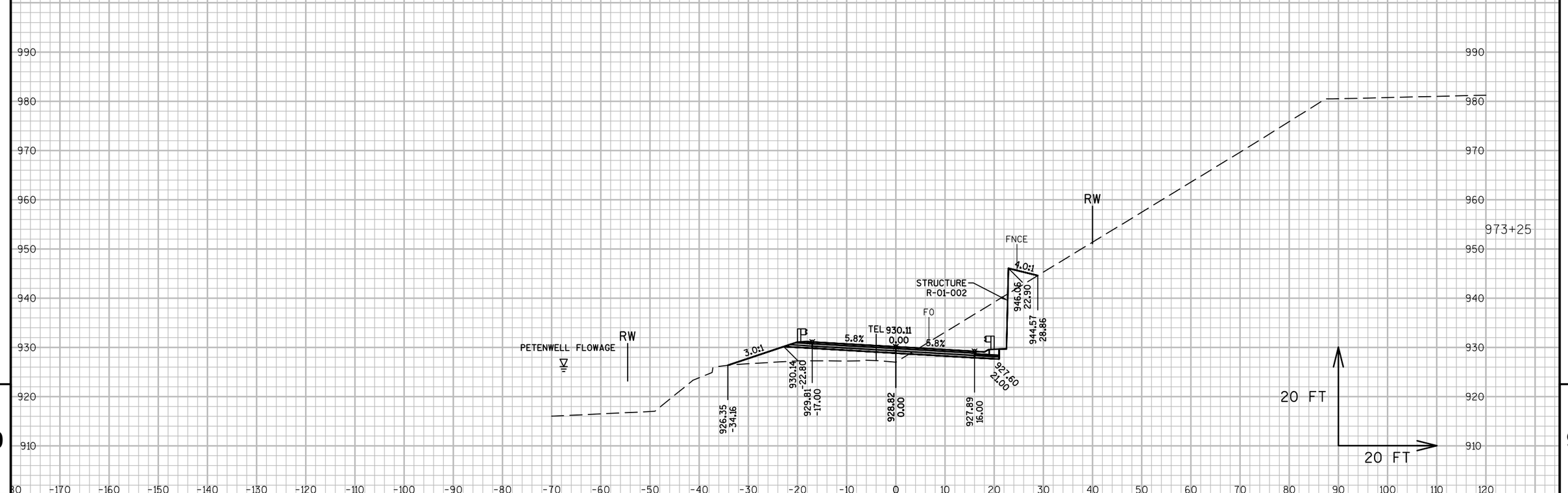
PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 280	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR RET WALL 2.DWG PLOT DATE : 10/11/2017 10:19 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:20 FT
LAYOUT NAME - SECTION SHEET - (44)



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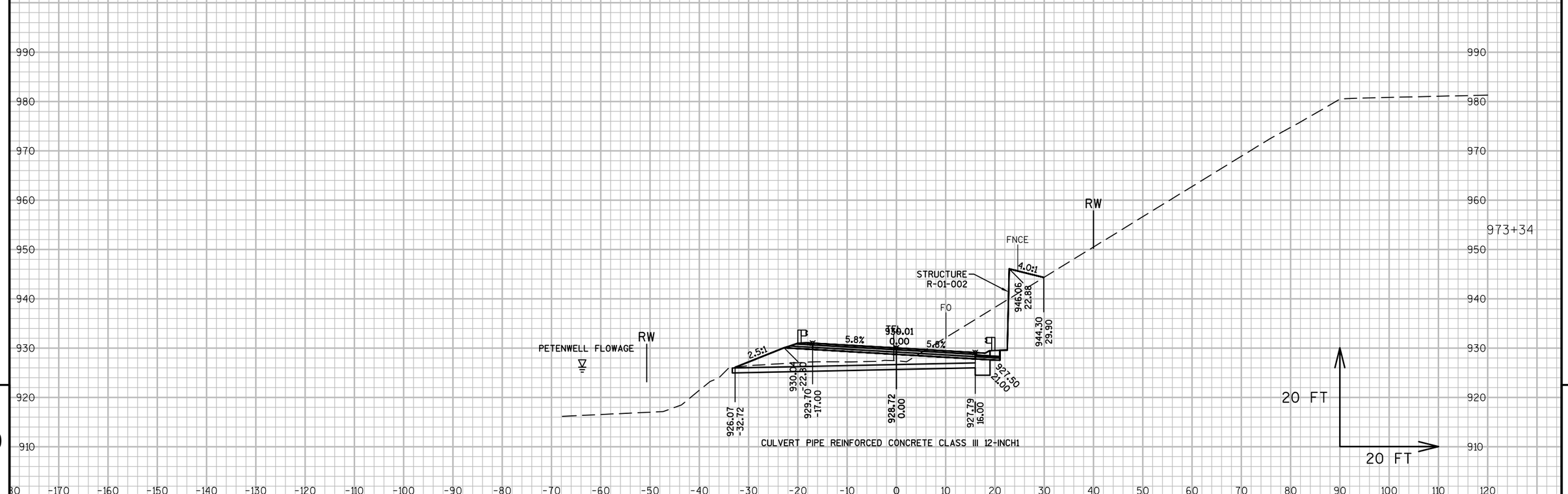
9

PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 281	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR RET WALL 2.DWG PLOT DATE : 10/11/2017 10:19 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:20 FT
LAYOUT NAME - SECTION SHEET - (45)



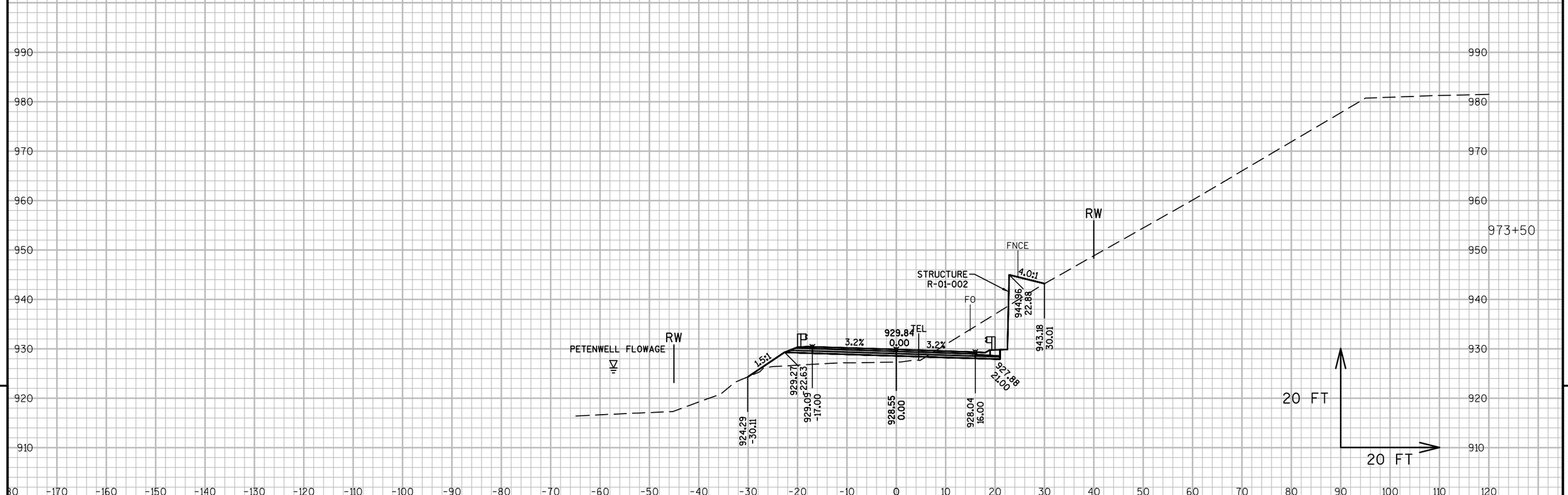
9

9

PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 282 E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR RET WALL 2.DWG PLOT DATE : 10/11/2017 10:19 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:20 FT
LAYOUT NAME - SECTION SHEET - (46)

WISDOT/CADDS SHEET 49

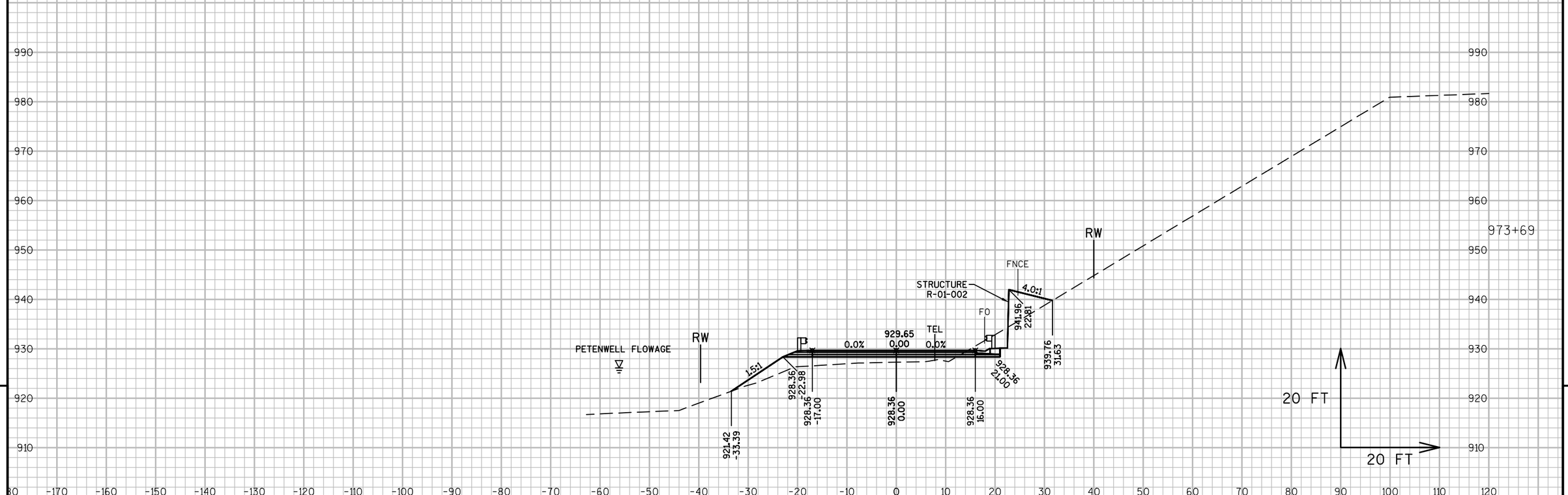


9

9

PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 283	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR RET WALL 2.DWG
LAYOUT NAME - SECTION SHEET - (47)
PLOT DATE : 10/11/2017 10:19 AM
PLOT BY : ANDREW LEE
PLOT NAME :
PLOT SCALE : 1 IN:20 FT



9

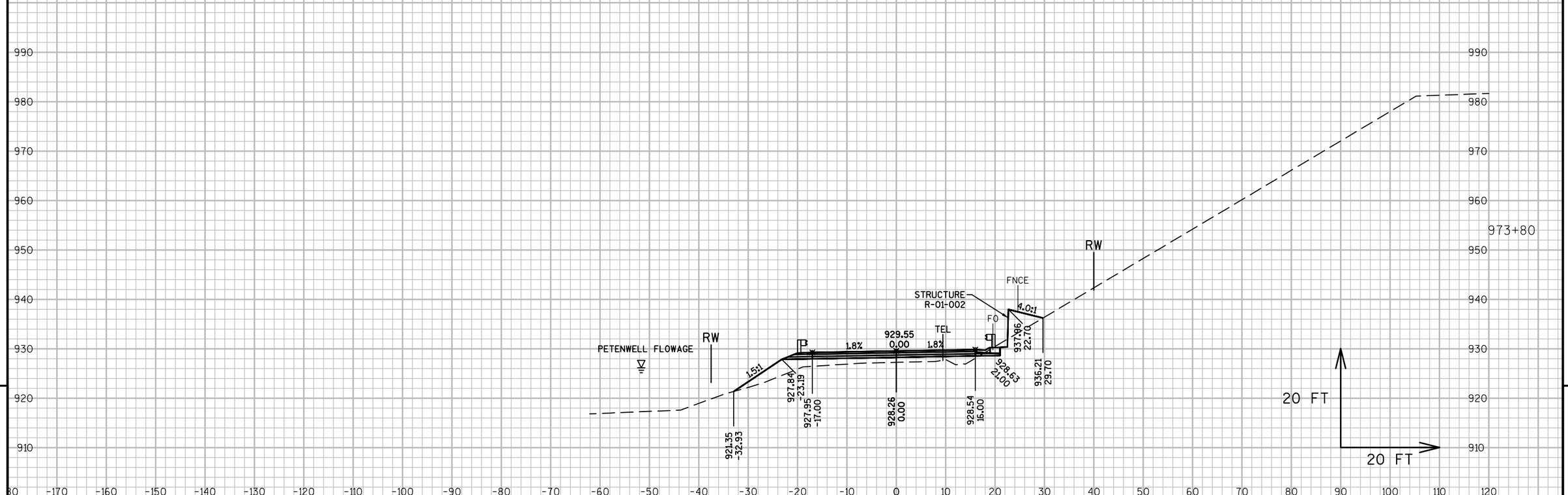
9

PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 284	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR RET WALL 2.DWG
LAYOUT NAME - SECTION SHEET - (48)

PLOT DATE : 10/11/2017 10:19 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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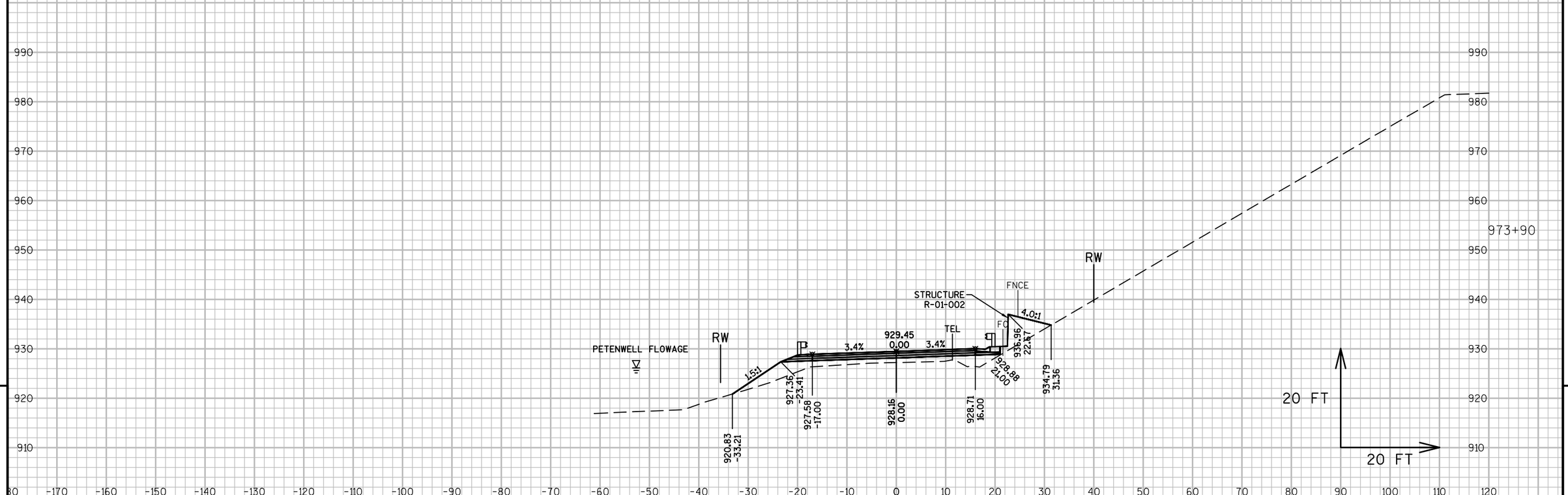
9

PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 285	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR RET WALL 2.DWG
LAYOUT NAME - SECTION SHEET - (49)

PLOT DATE : 10/11/2017 10:19 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

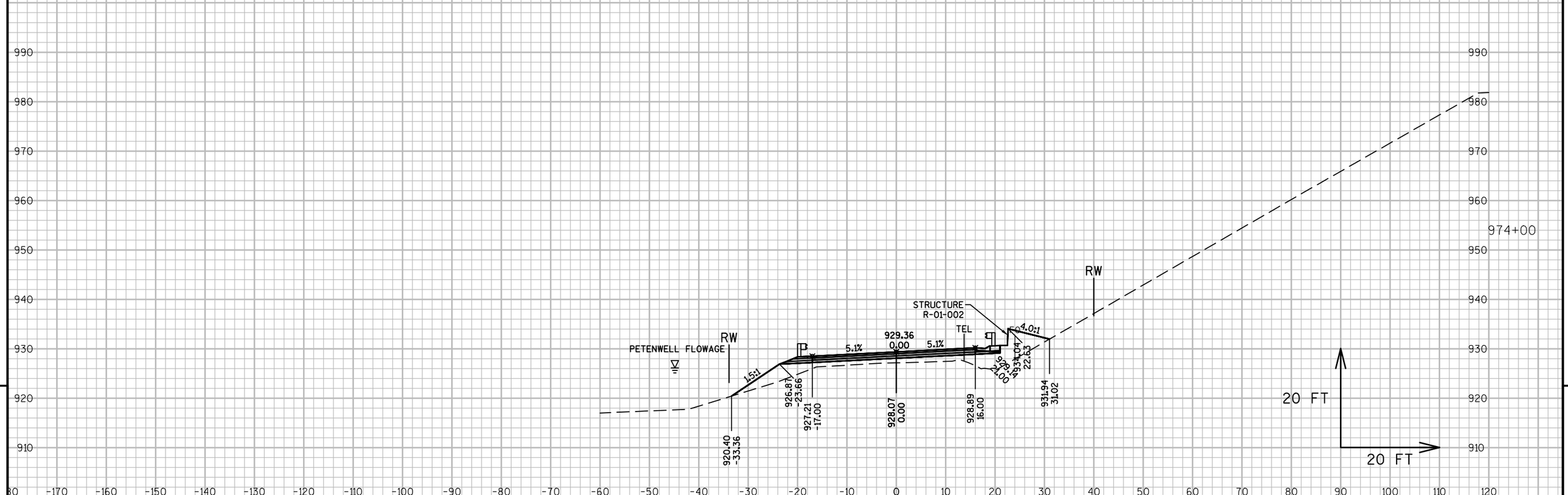
9

PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 286	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR RET WALL 2.DWG
LAYOUT NAME - SECTION SHEET - (50)

PLOT DATE : 10/11/2017 10:19 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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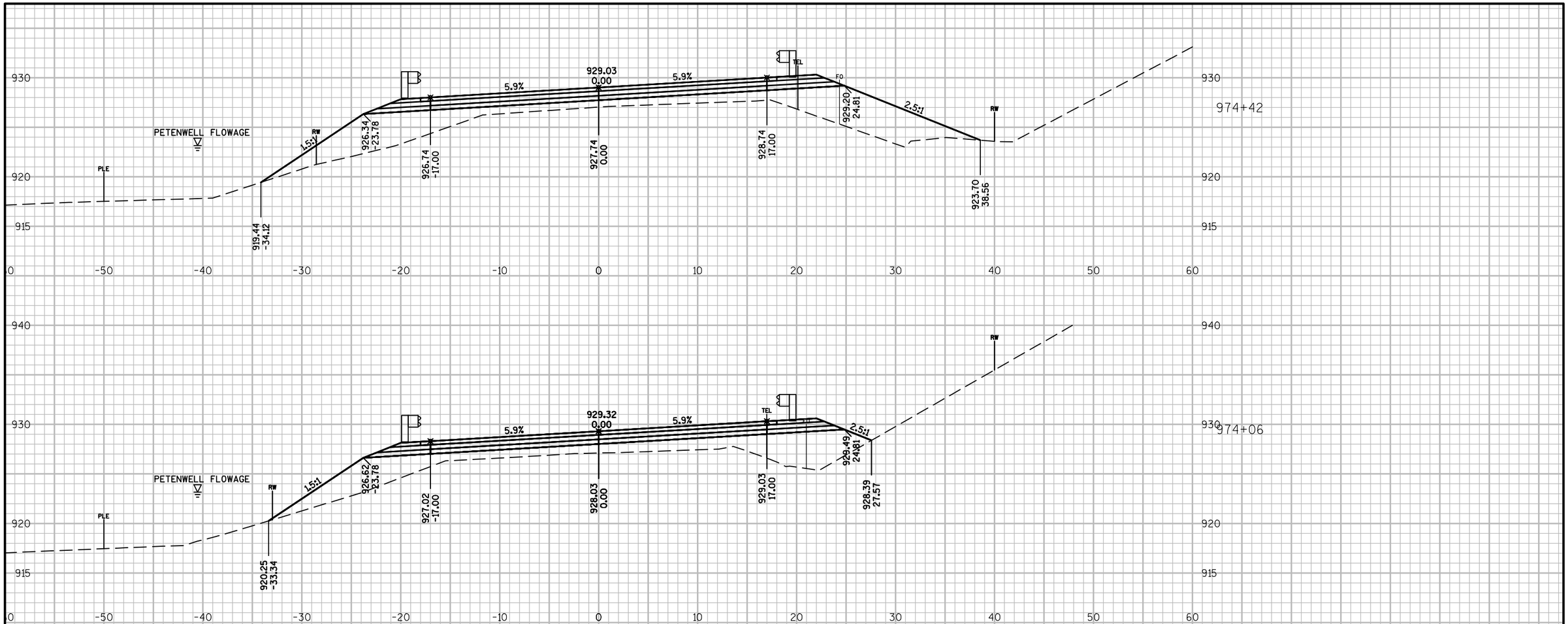
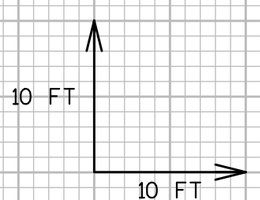
PROJECT NO: 6355-00-05	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 287	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR RET WALL 2.DWG PLOT DATE : 10/11/2017 10:19 AM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:20 FT
LAYOUT NAME - SECTION SHEET - (51)
WISDOT/CADDS SHEET 49





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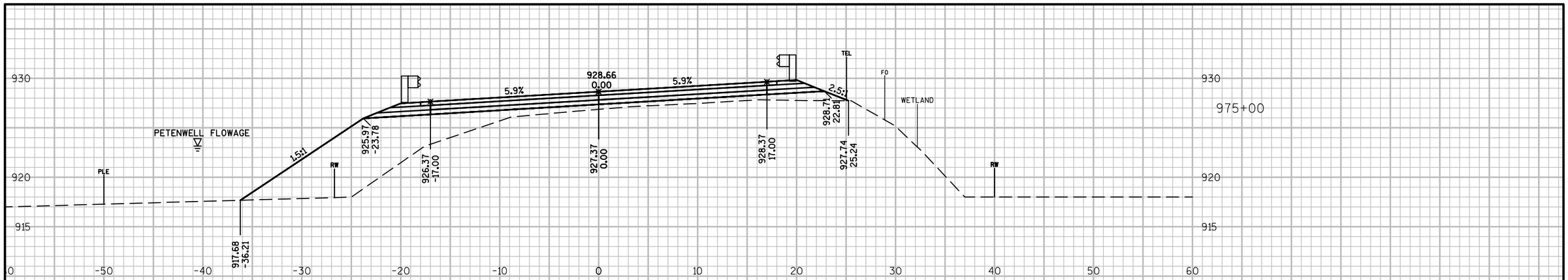
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 288	E



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PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 289	E

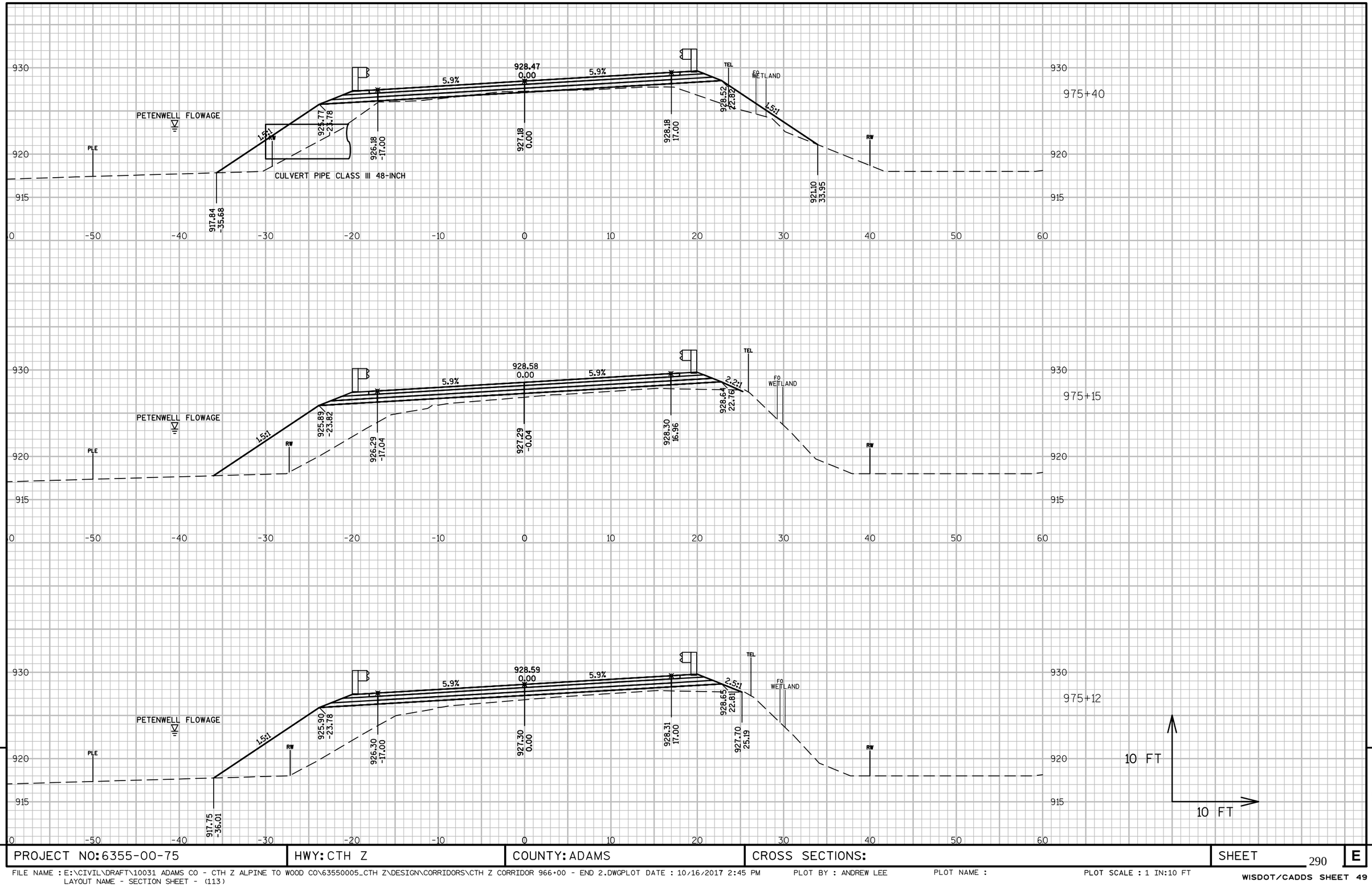
FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/16/2017 2:45 PM
LAYOUT NAME - SECTION SHEET - (112)

PLOT BY : ANDREW LEE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

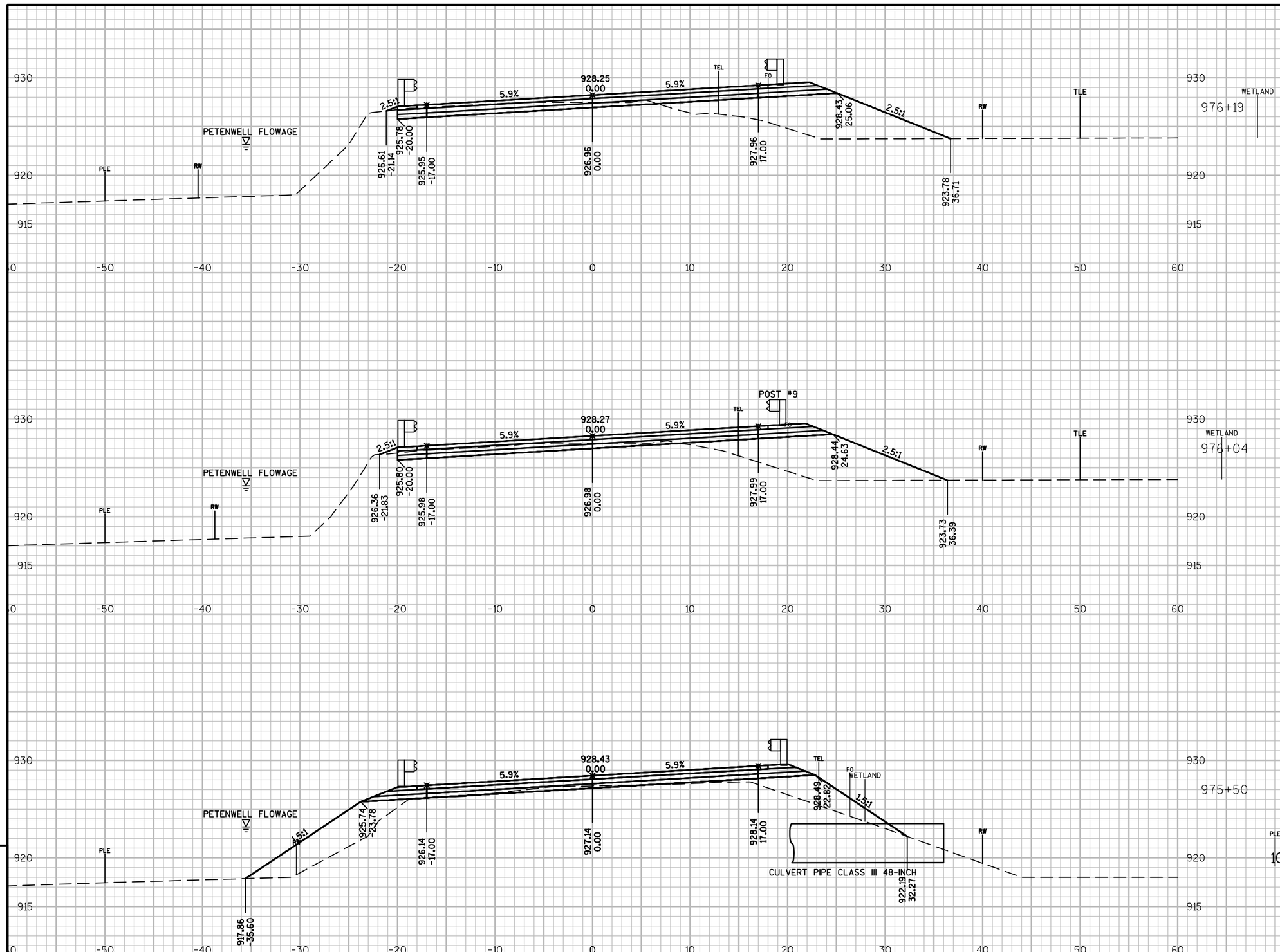


PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 290	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/16/2017 2:45 PM
LAYOUT NAME - SECTION SHEET - (113)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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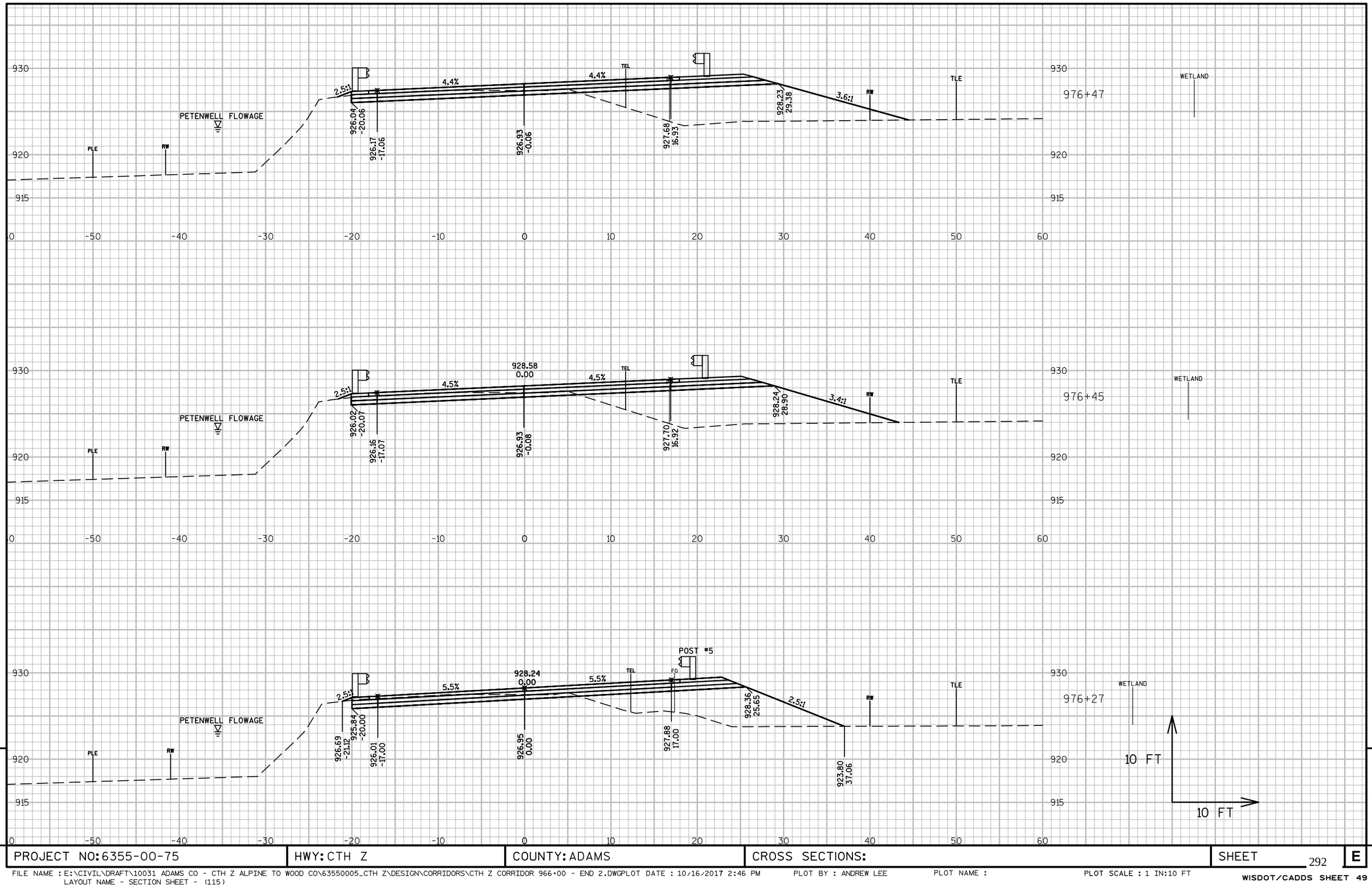
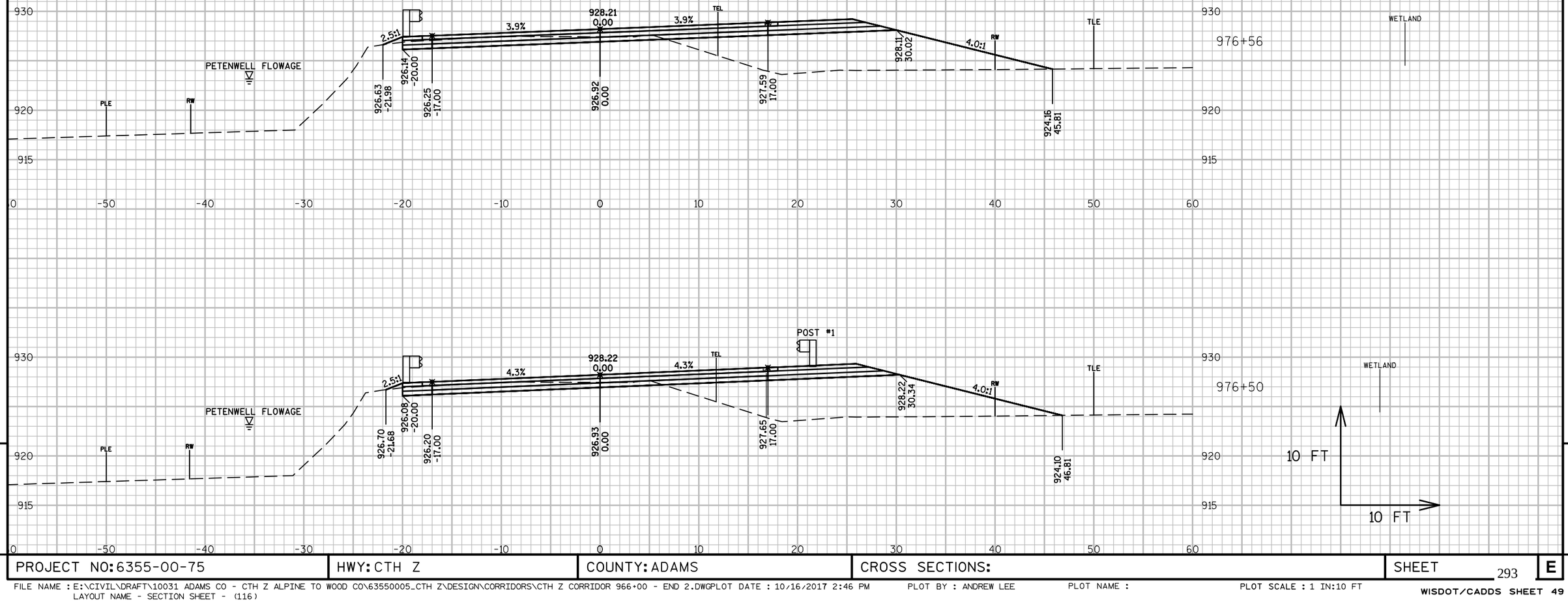
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 291	E



PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 292	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWG PLOT DATE : 10/16/2017 2:46 PM
LAYOUT NAME - SECTION SHEET - (115)
PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 293	E

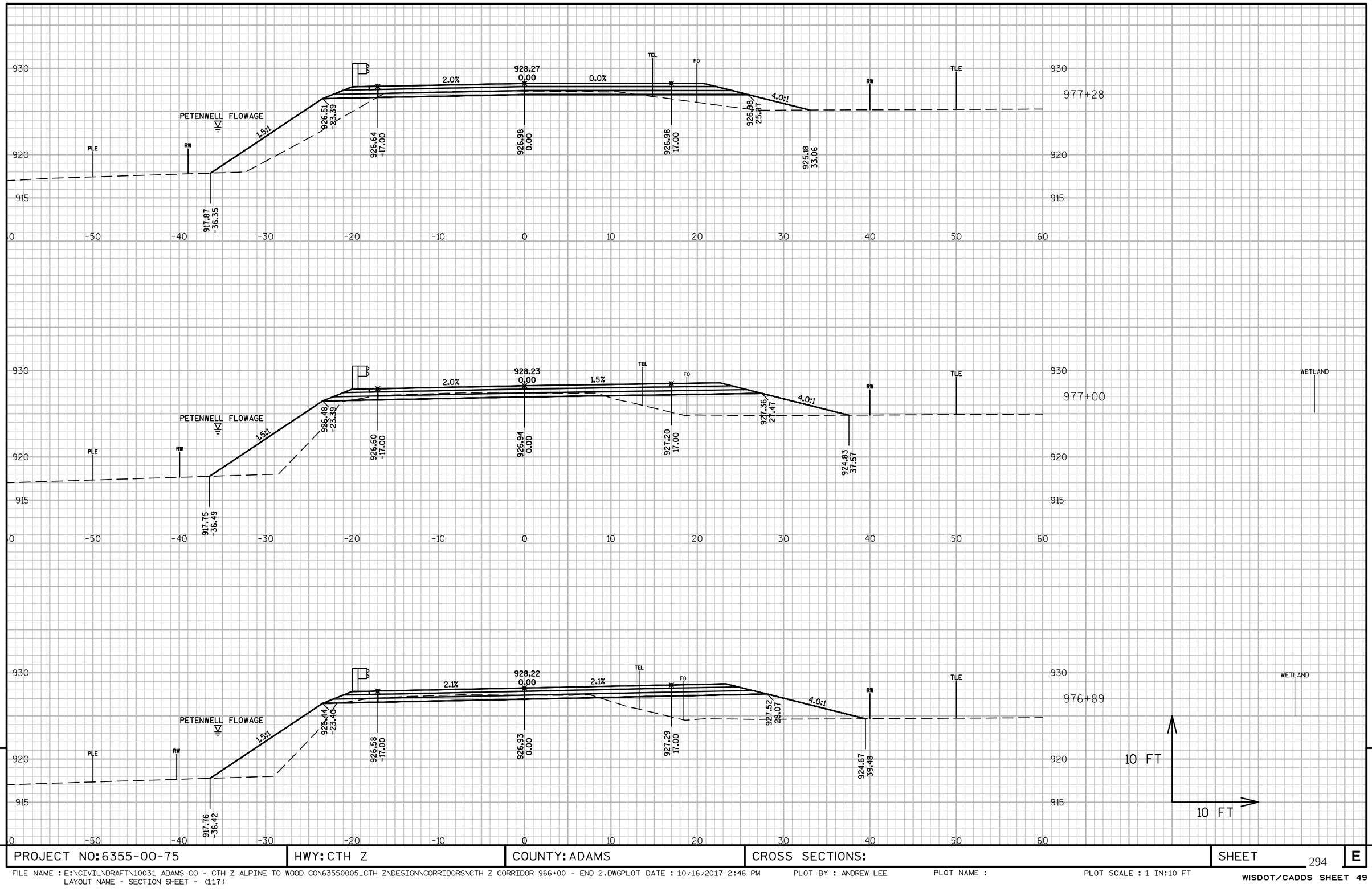
FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/16/2017 2:46 PM
LAYOUT NAME - SECTION SHEET - (116)

PLOT BY : ANDREW LEE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 294	E

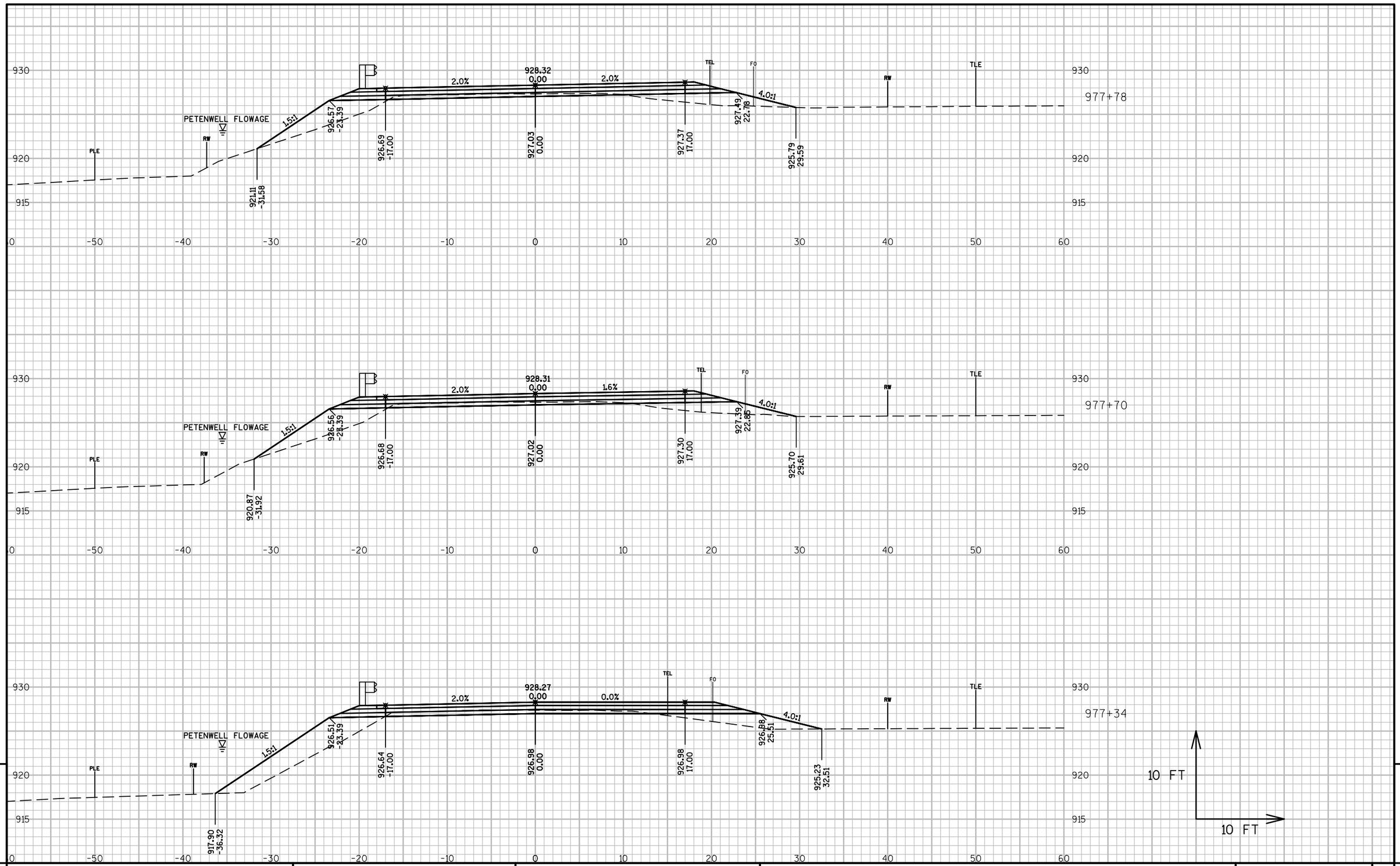
FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/16/2017 2:46 PM
LAYOUT NAME - SECTION SHEET - (117)

PLOT BY : ANDREW LEE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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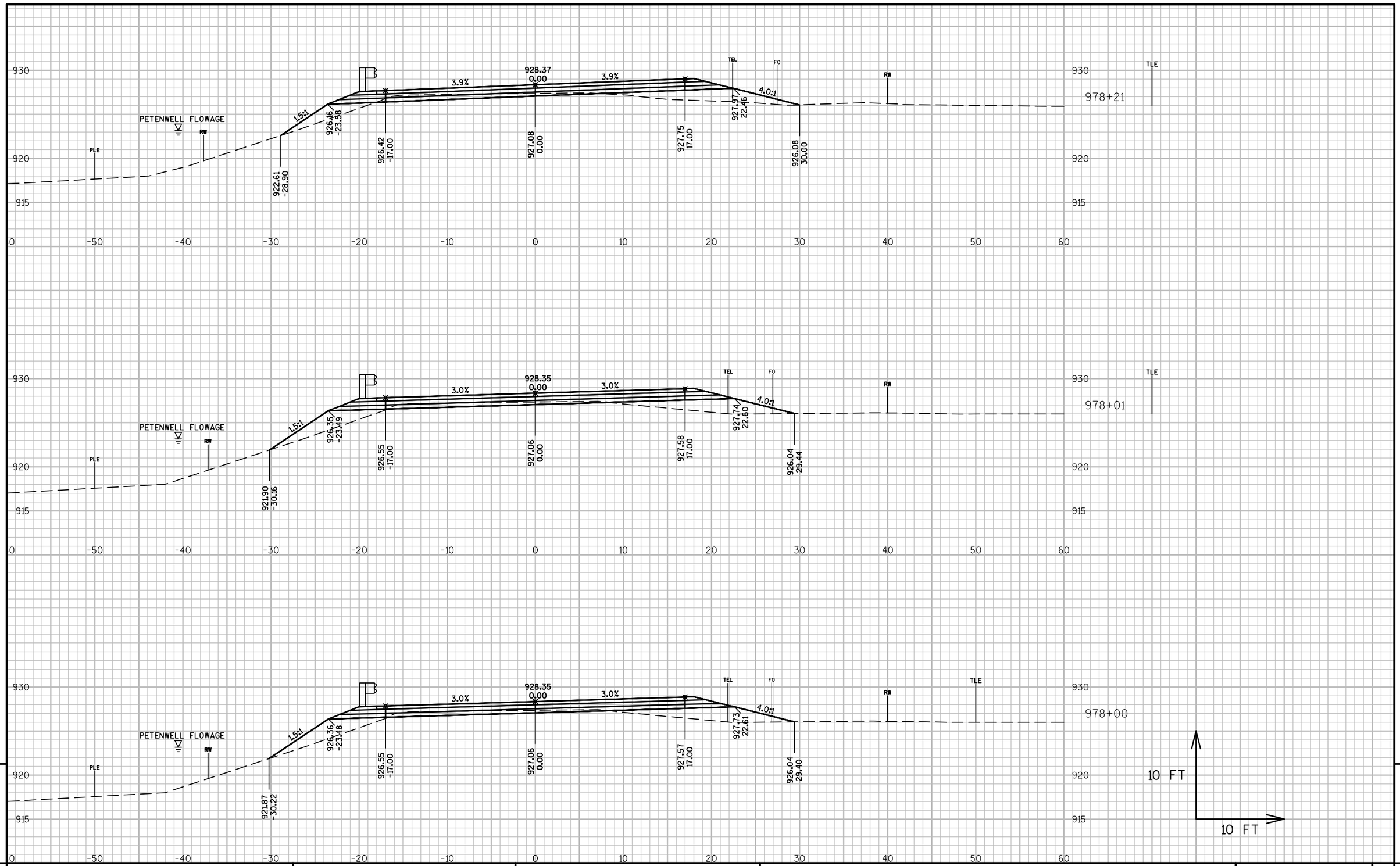
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 295	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/16/2017 2:46 PM
LAYOUT NAME - SECTION SHEET - (118)
PLOT BY : ANDREW LEE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



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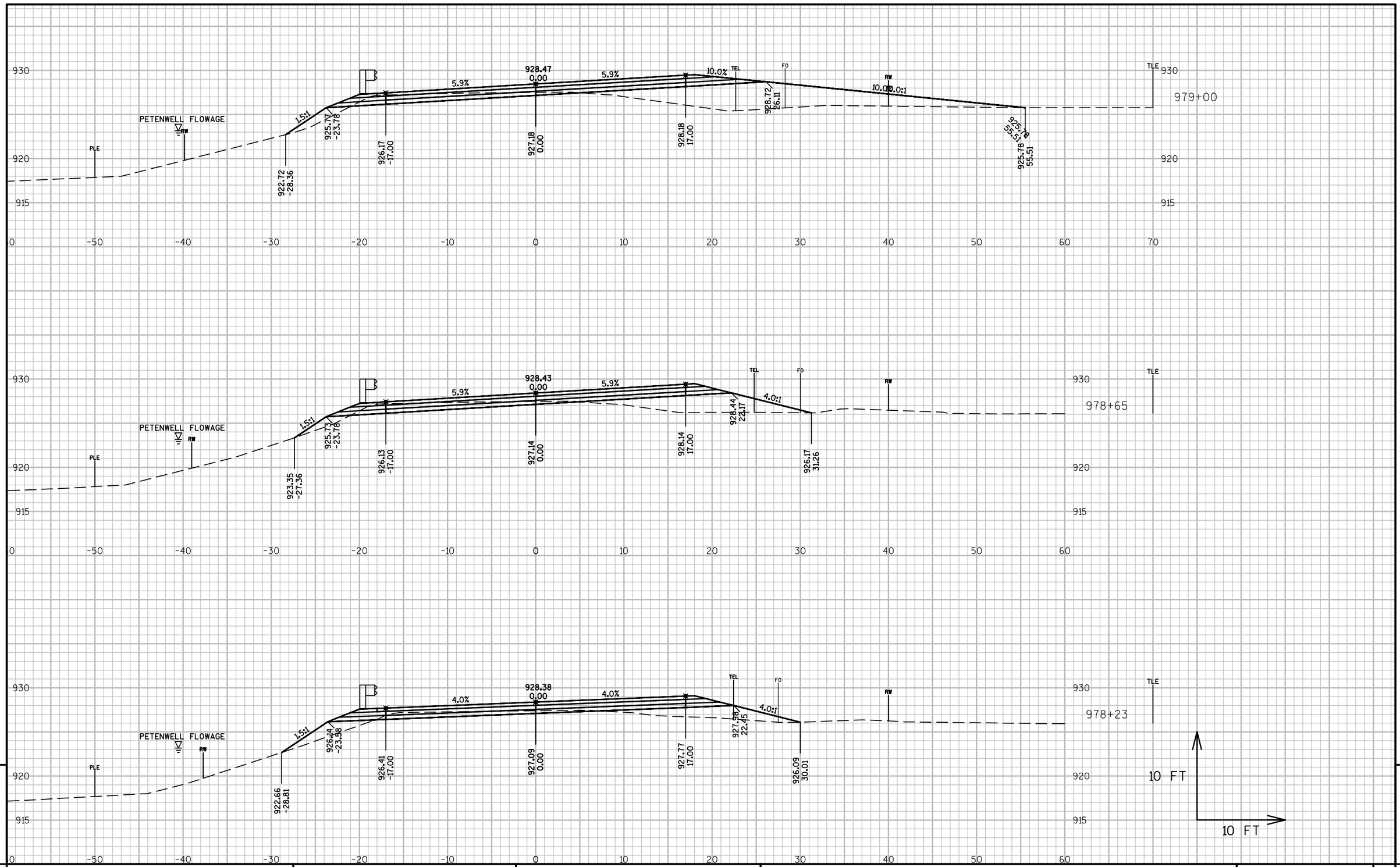
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 296	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/16/2017 2:46 PM
LAYOUT NAME - SECTION SHEET - (119)
PLOT BY : ANDREW LEE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49

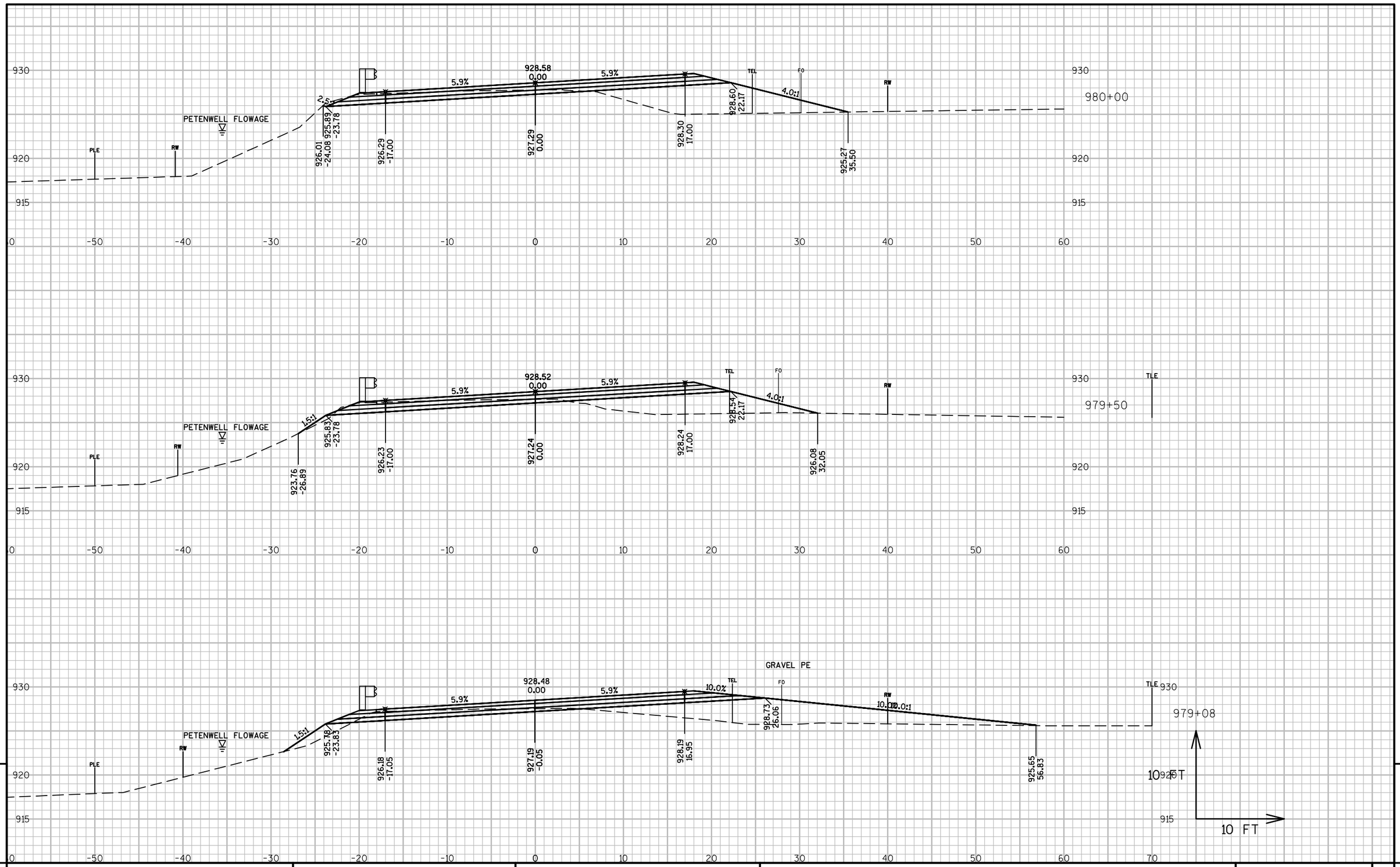


PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 297	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/16/2017 2:47 PM
LAYOUT NAME - SECTION SHEET - (120)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 298	E

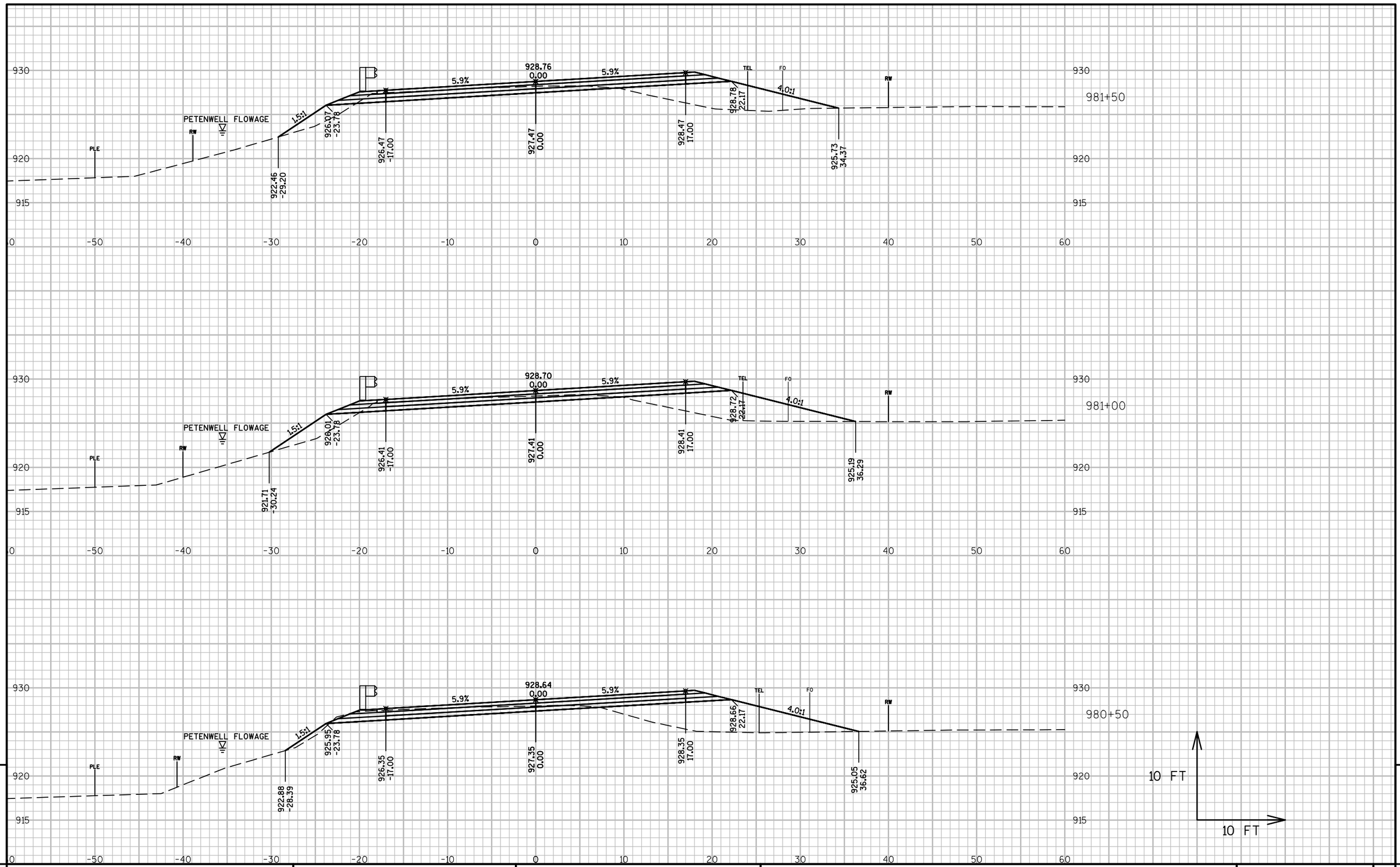
FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/16/2017 2:47 PM
LAYOUT NAME - SECTION SHEET - (121)

PLOT BY : ANDREW LEE

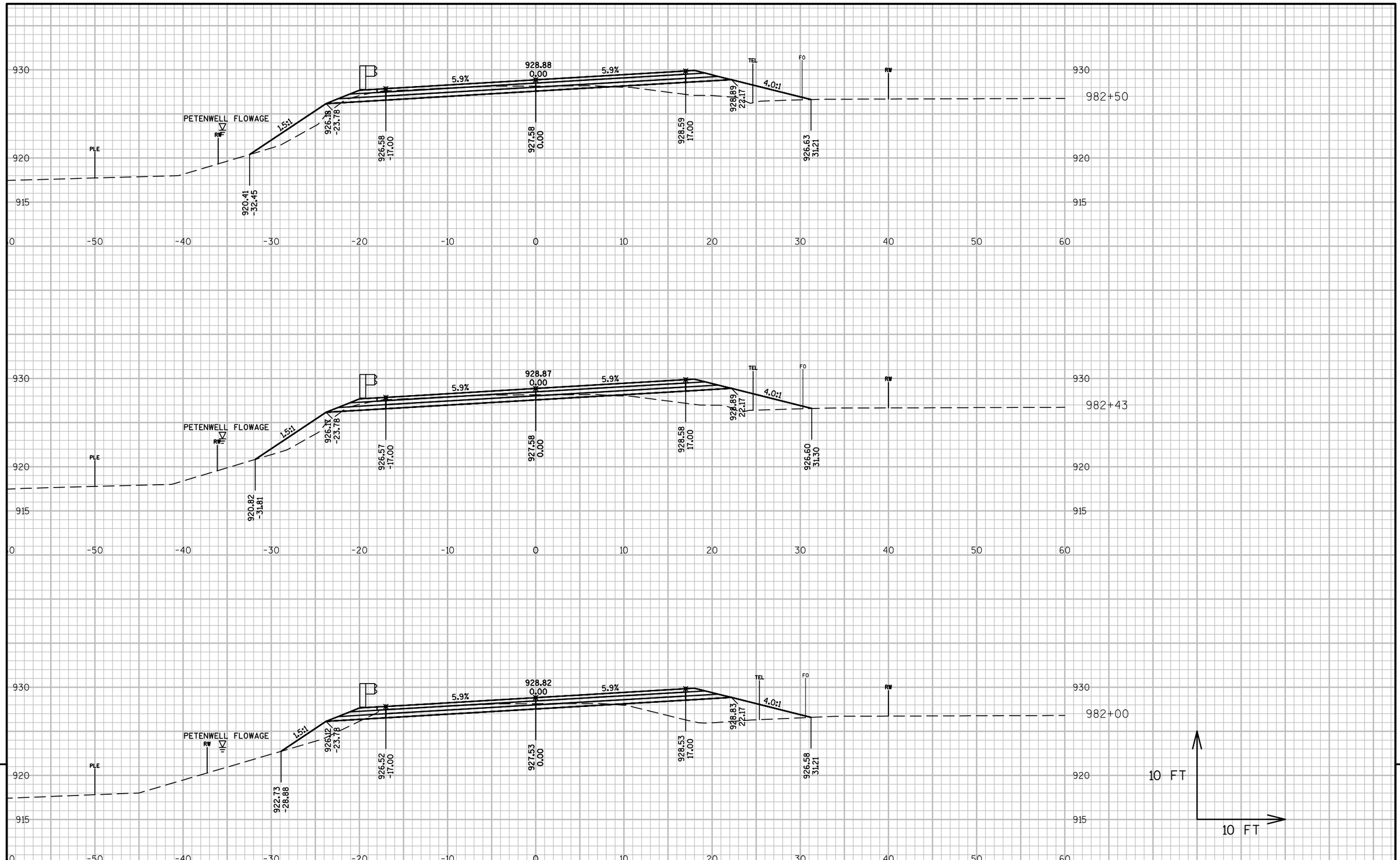
PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 299	E



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9

PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 300	E

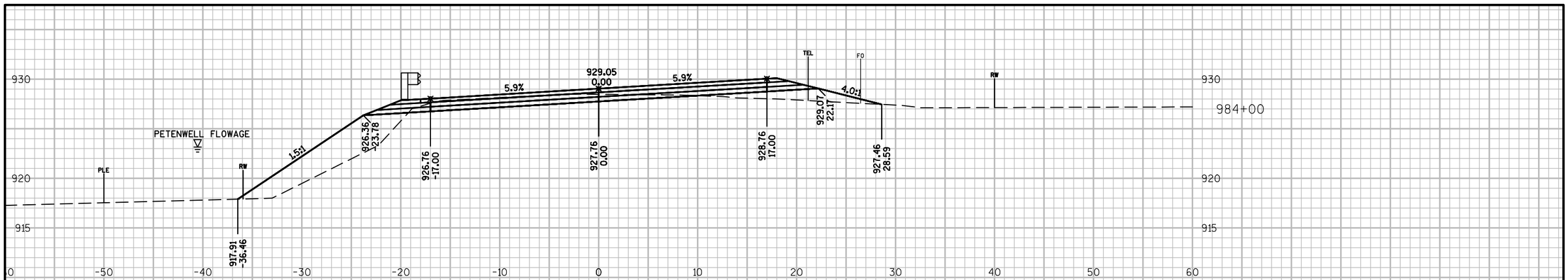
FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/16/2017 2:47 PM
LAYOUT NAME - SECTION SHEET - (123)

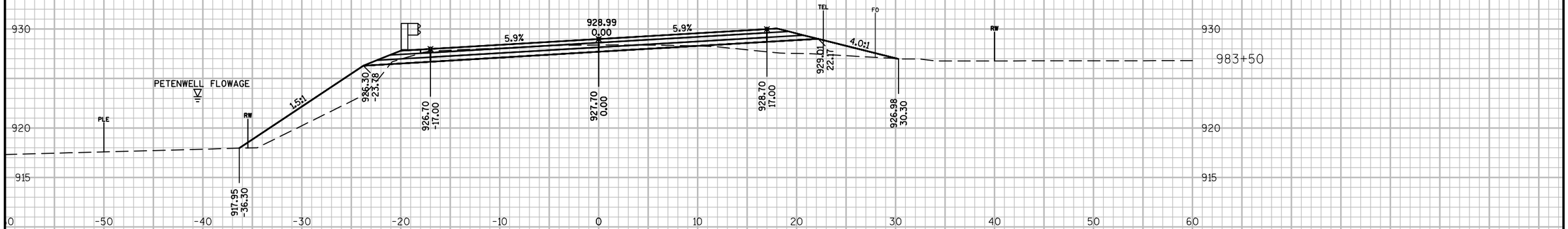
PLOT BY : ANDREW LEE

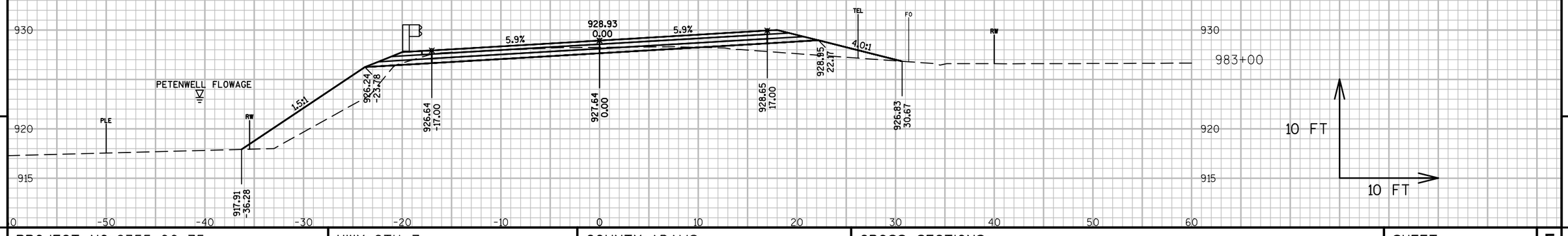
PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49







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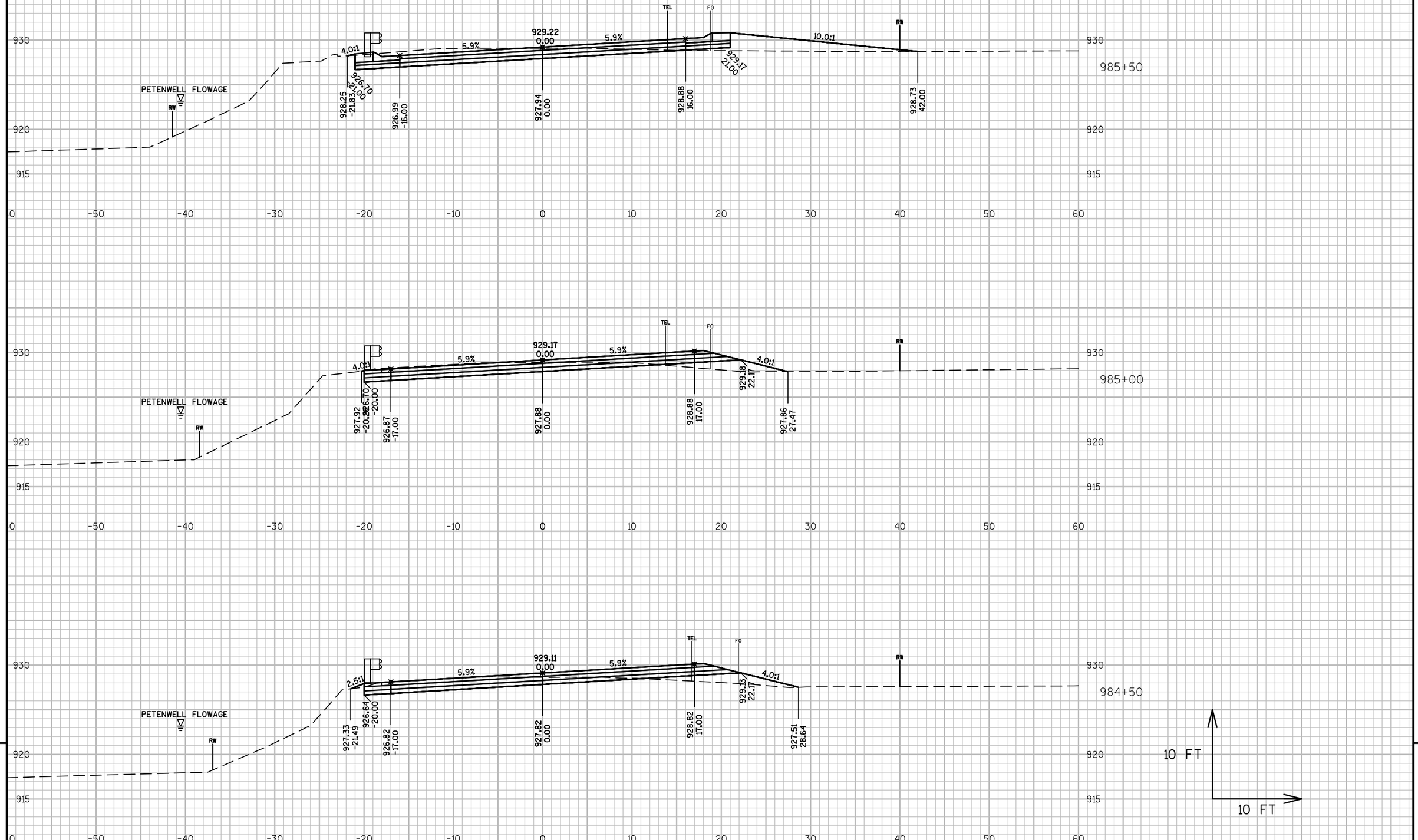
9

PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 301	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/16/2017 2:47 PM
LAYOUT NAME - SECTION SHEET - (124)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 302	E

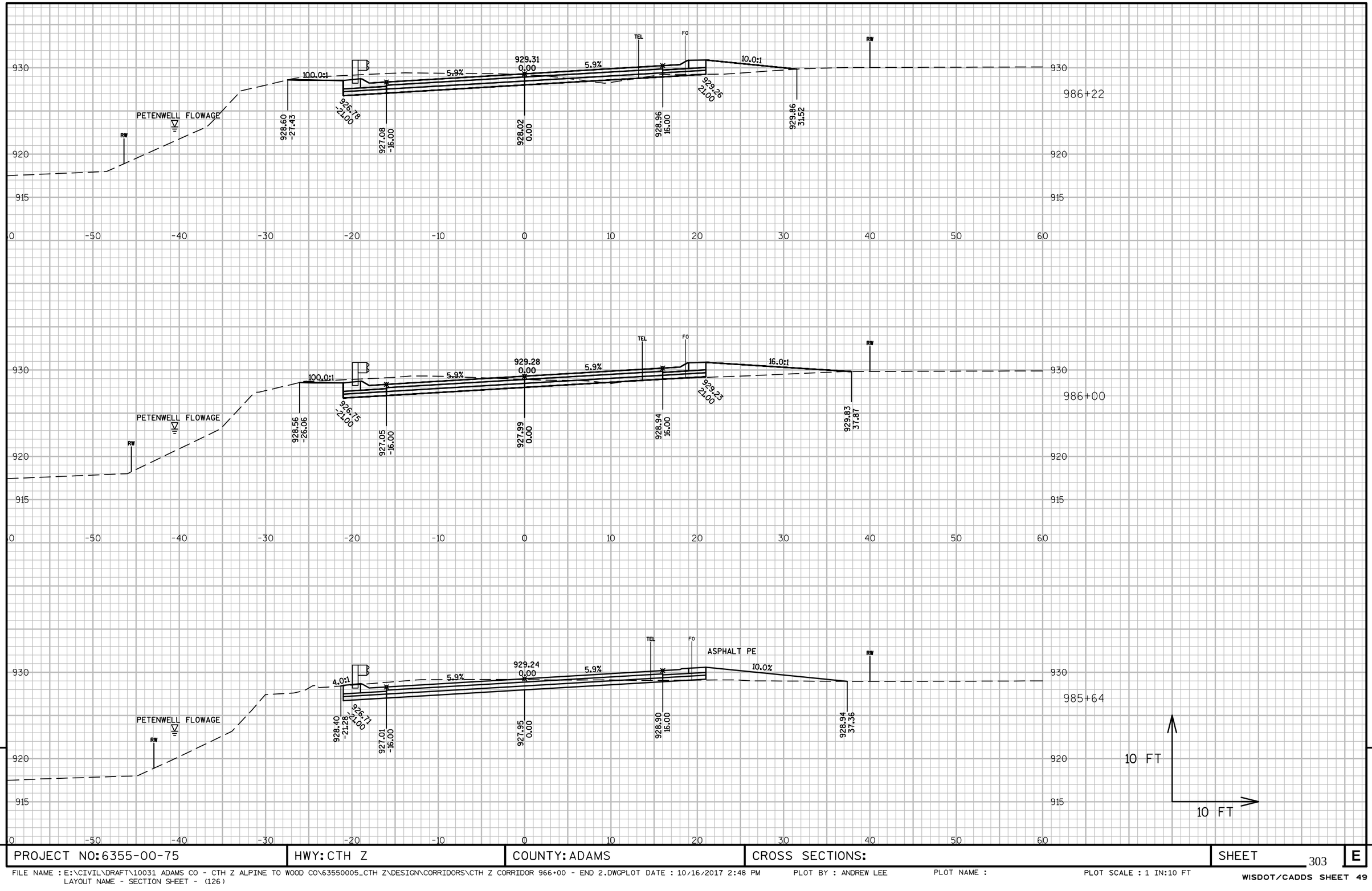
FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/16/2017 2:47 PM
LAYOUT NAME - SECTION SHEET - (125)

PLOT BY : ANDREW LEE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT

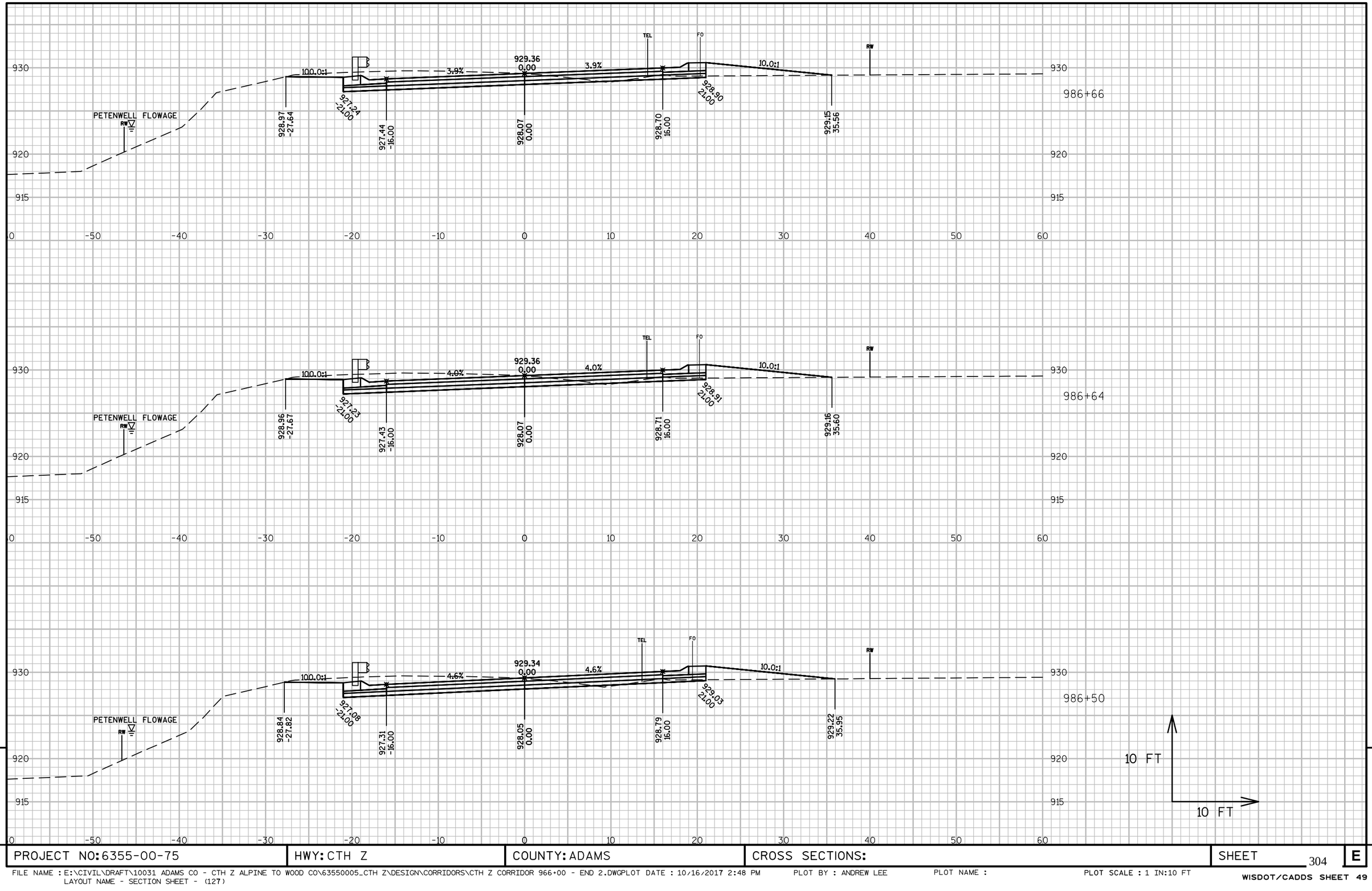
WISDOT/CADDS SHEET 49



PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 303	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/16/2017 2:48 PM PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT
LAYOUT NAME - SECTION SHEET - (126)

WISDOT/CADDS SHEET 49



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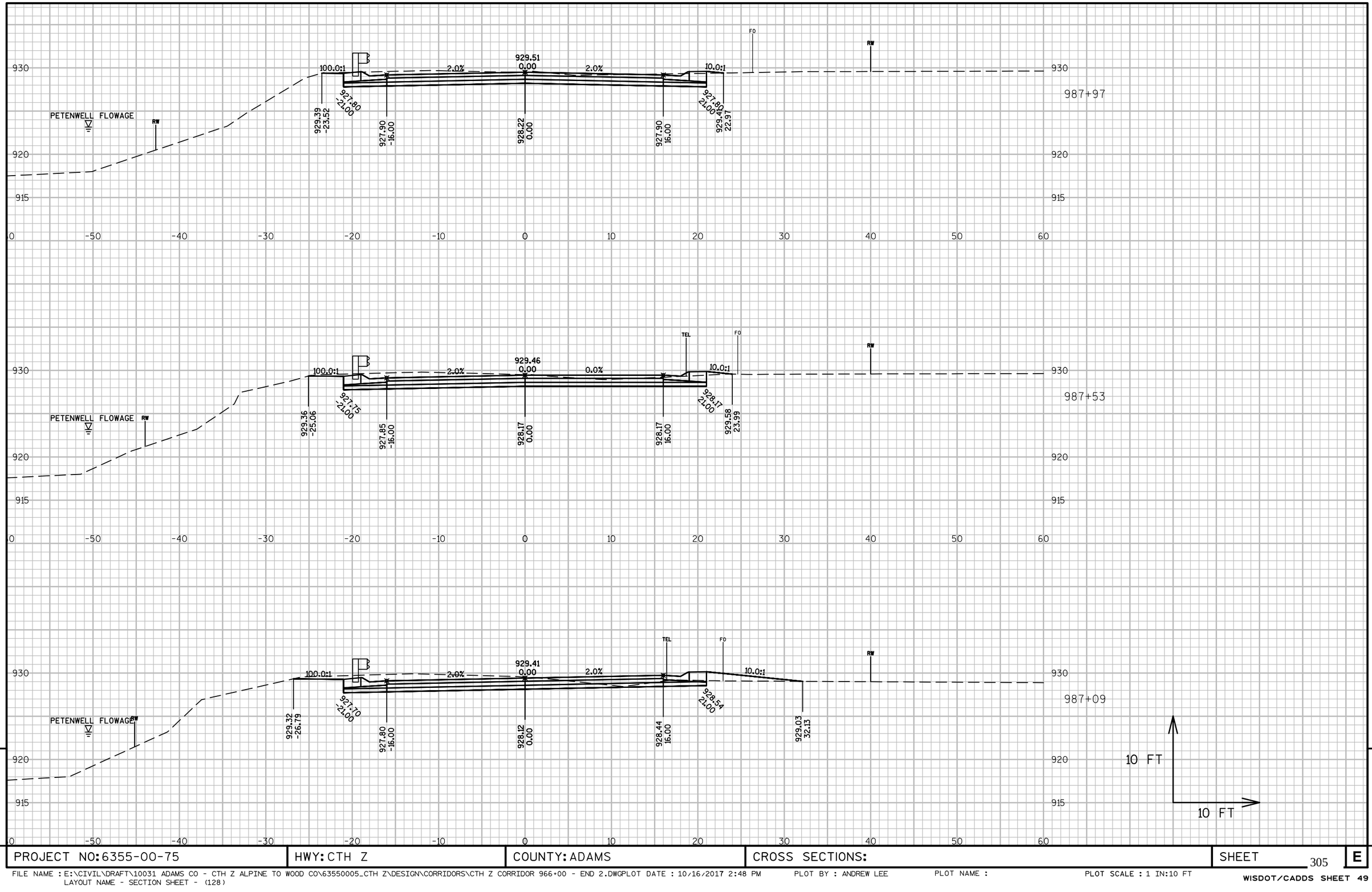
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 304	E



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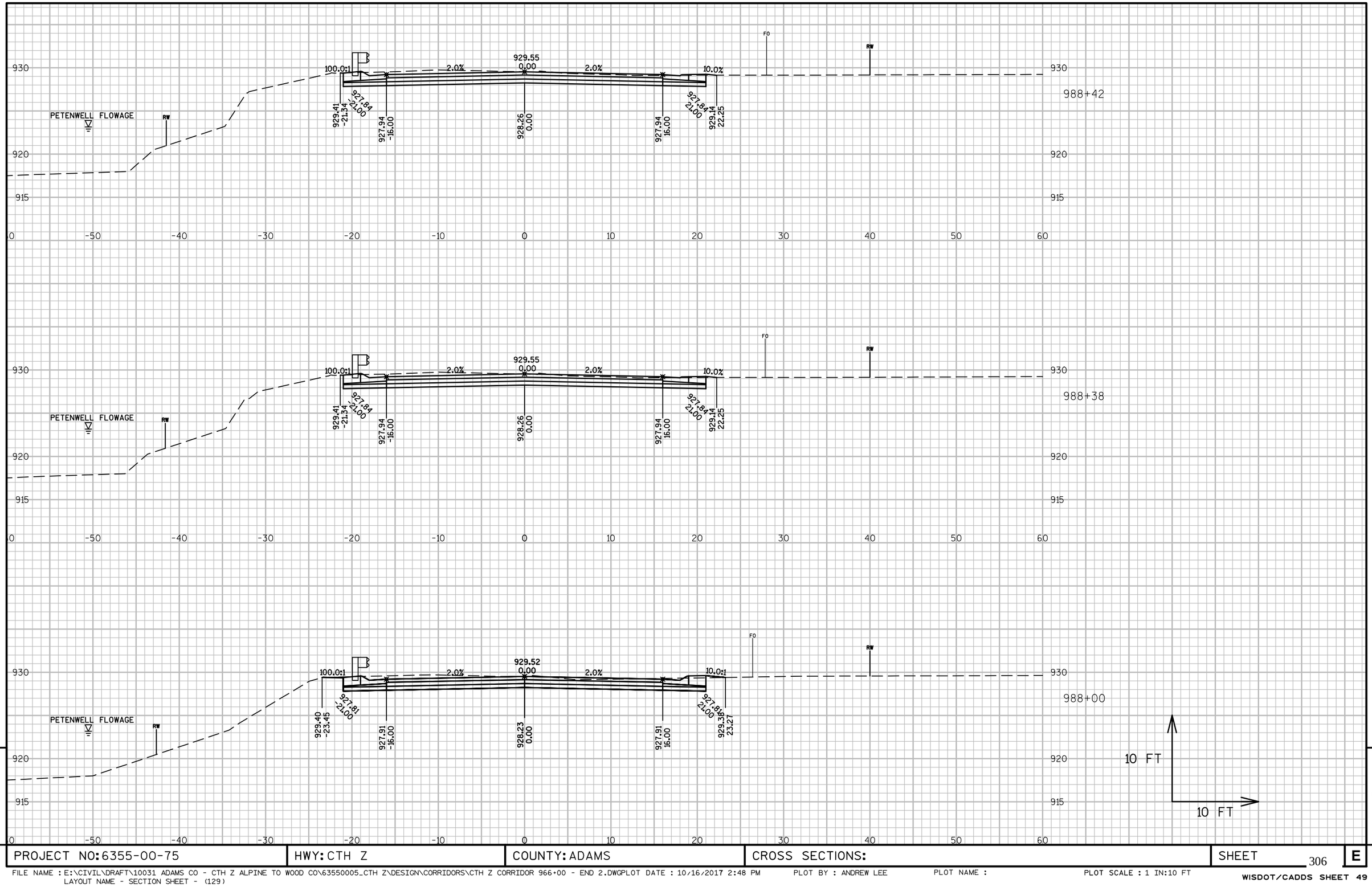
9

PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 305	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/16/2017 2:48 PM
LAYOUT NAME - SECTION SHEET - (128)
PLOT BY : ANDREW LEE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



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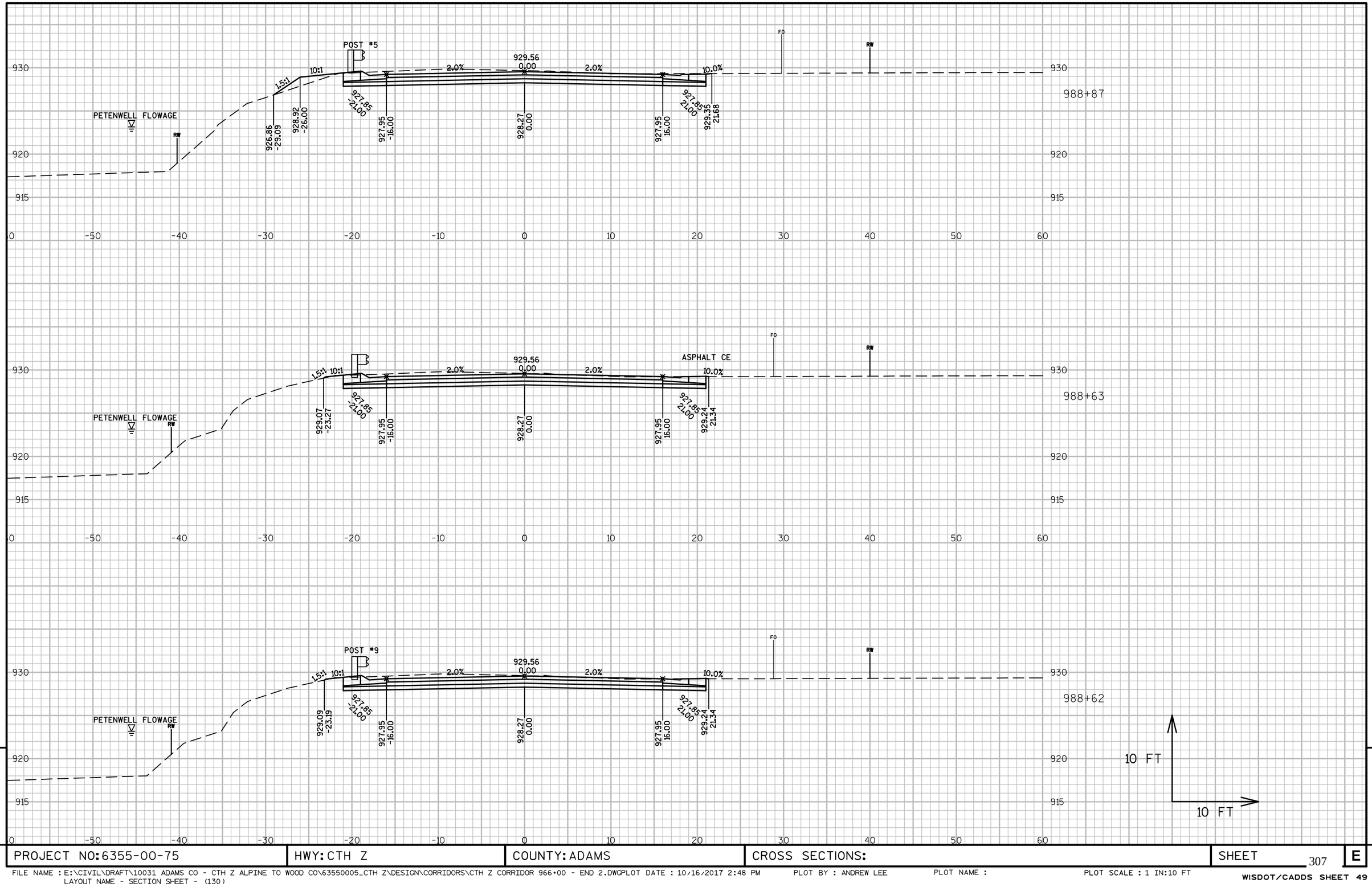
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 306	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/16/2017 2:48 PM
LAYOUT NAME - SECTION SHEET - (129)
PLOT BY : ANDREW LEE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



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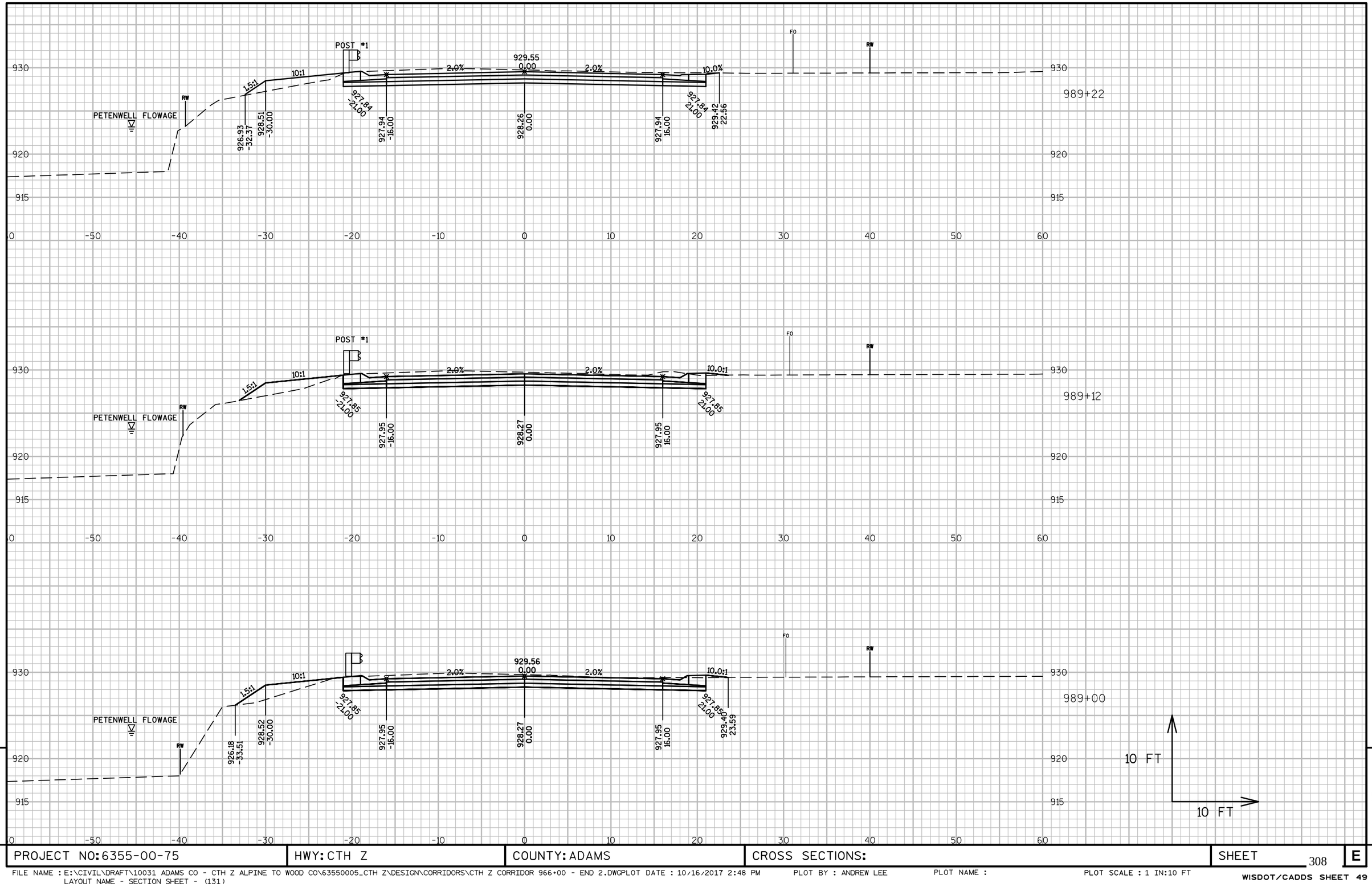
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 307	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/16/2017 2:48 PM
LAYOUT NAME - SECTION SHEET - (130)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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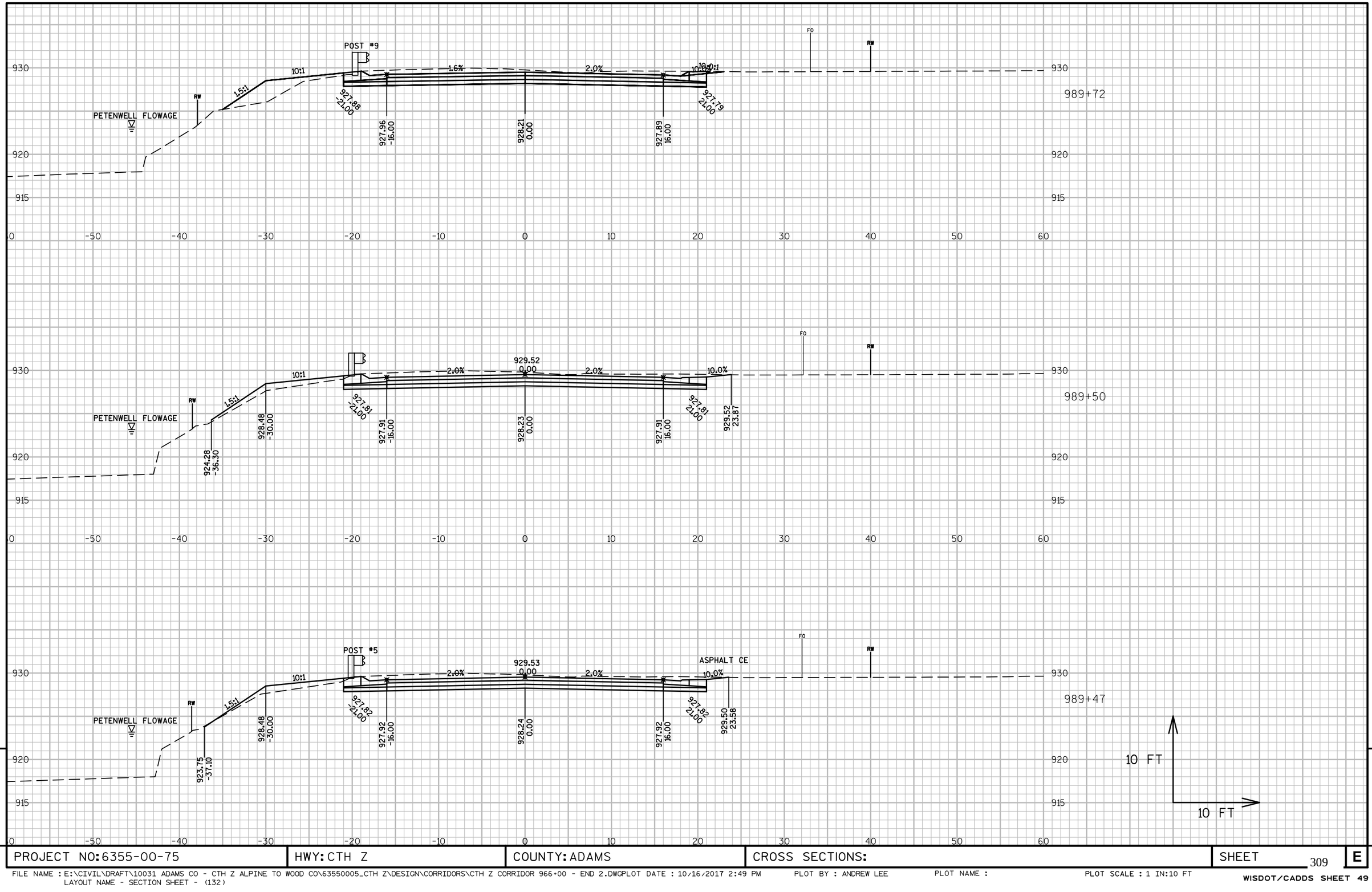
9

PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 308	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/16/2017 2:48 PM
LAYOUT NAME - SECTION SHEET - (131)
PLOT BY : ANDREW LEE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



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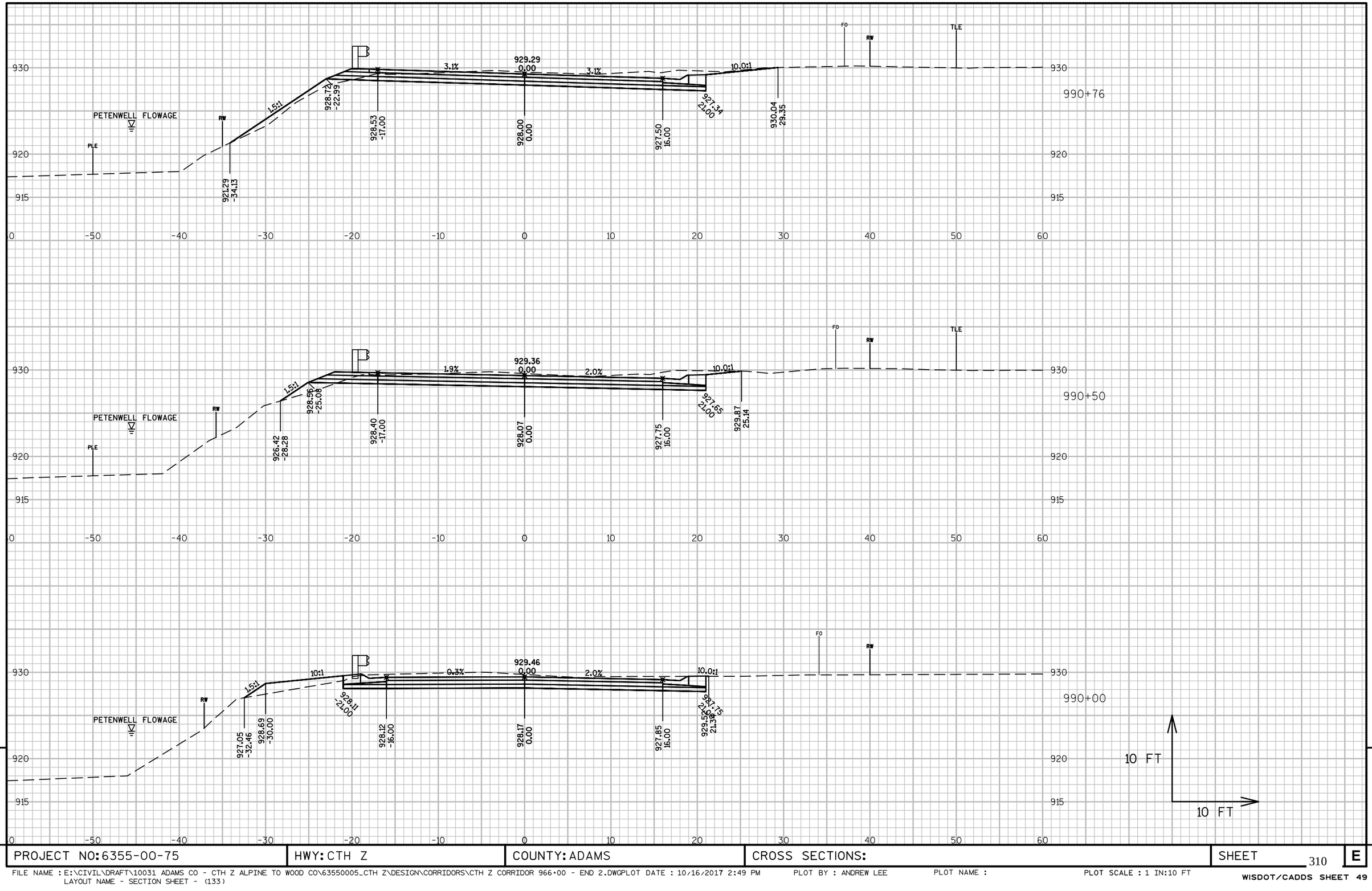
9

PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 309	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/16/2017 2:49 PM
LAYOUT NAME - SECTION SHEET - (132)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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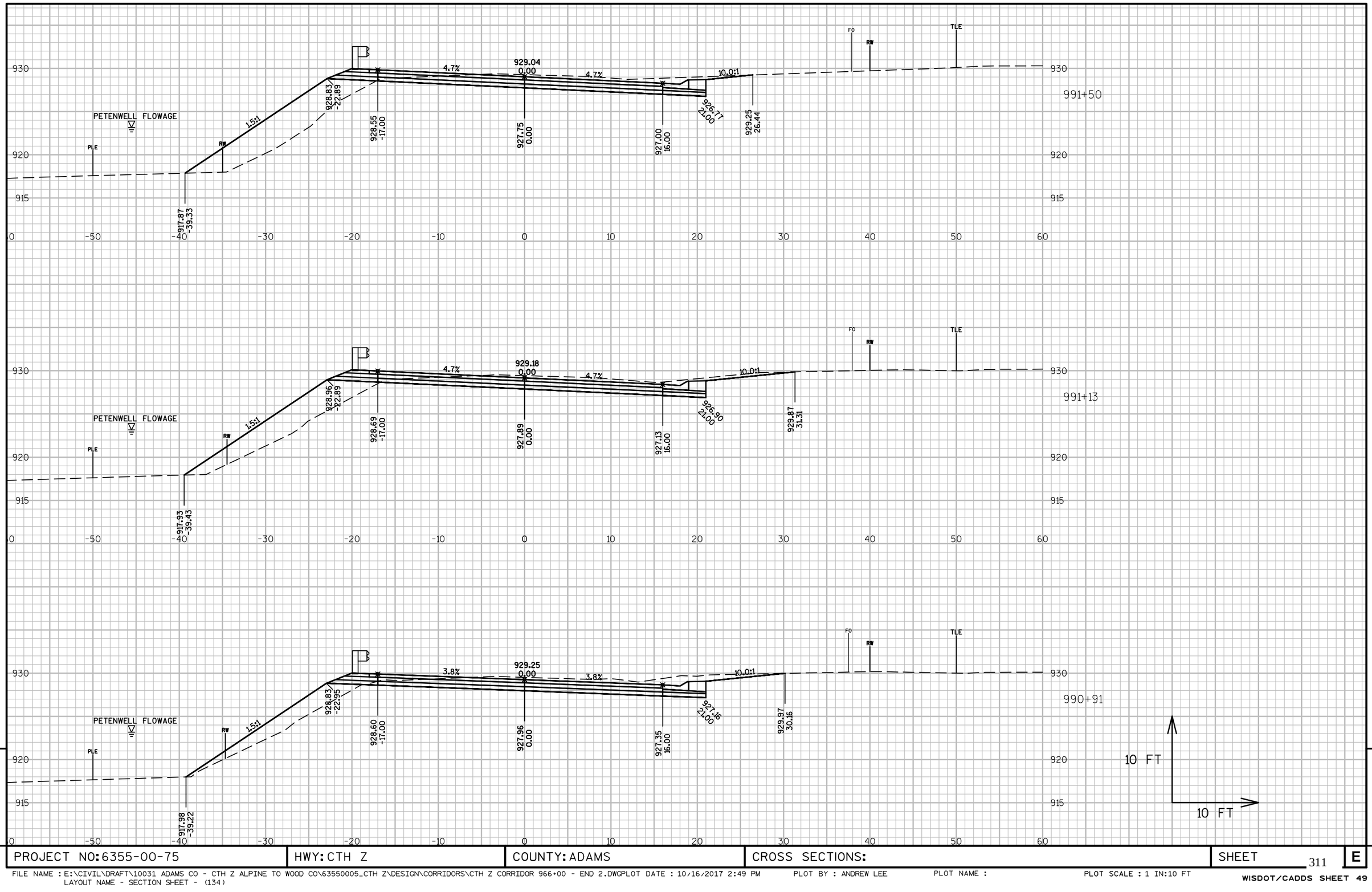
9

PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 310	E



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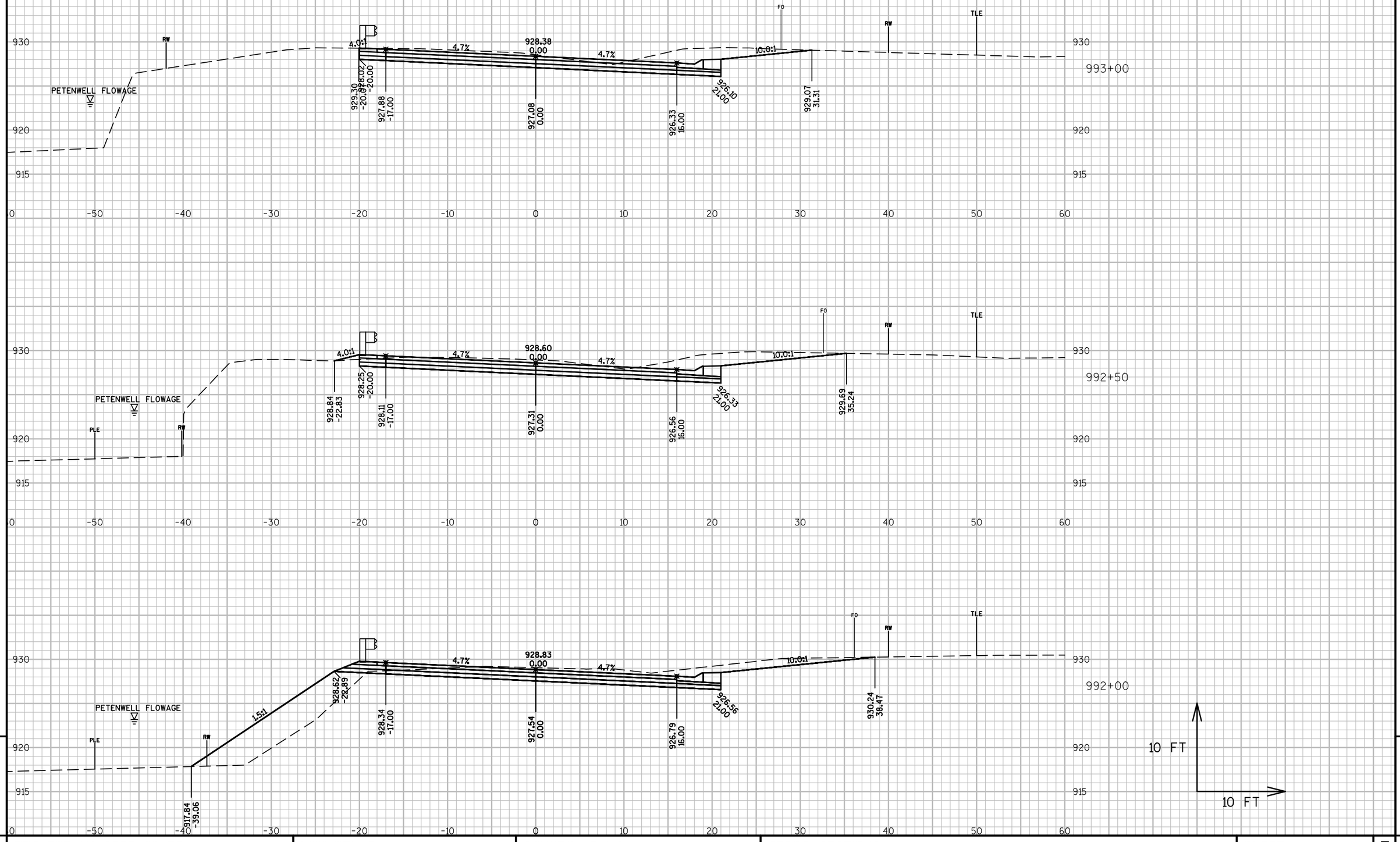
9

PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 311	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/16/2017 2:49 PM
LAYOUT NAME - SECTION SHEET - (134)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT



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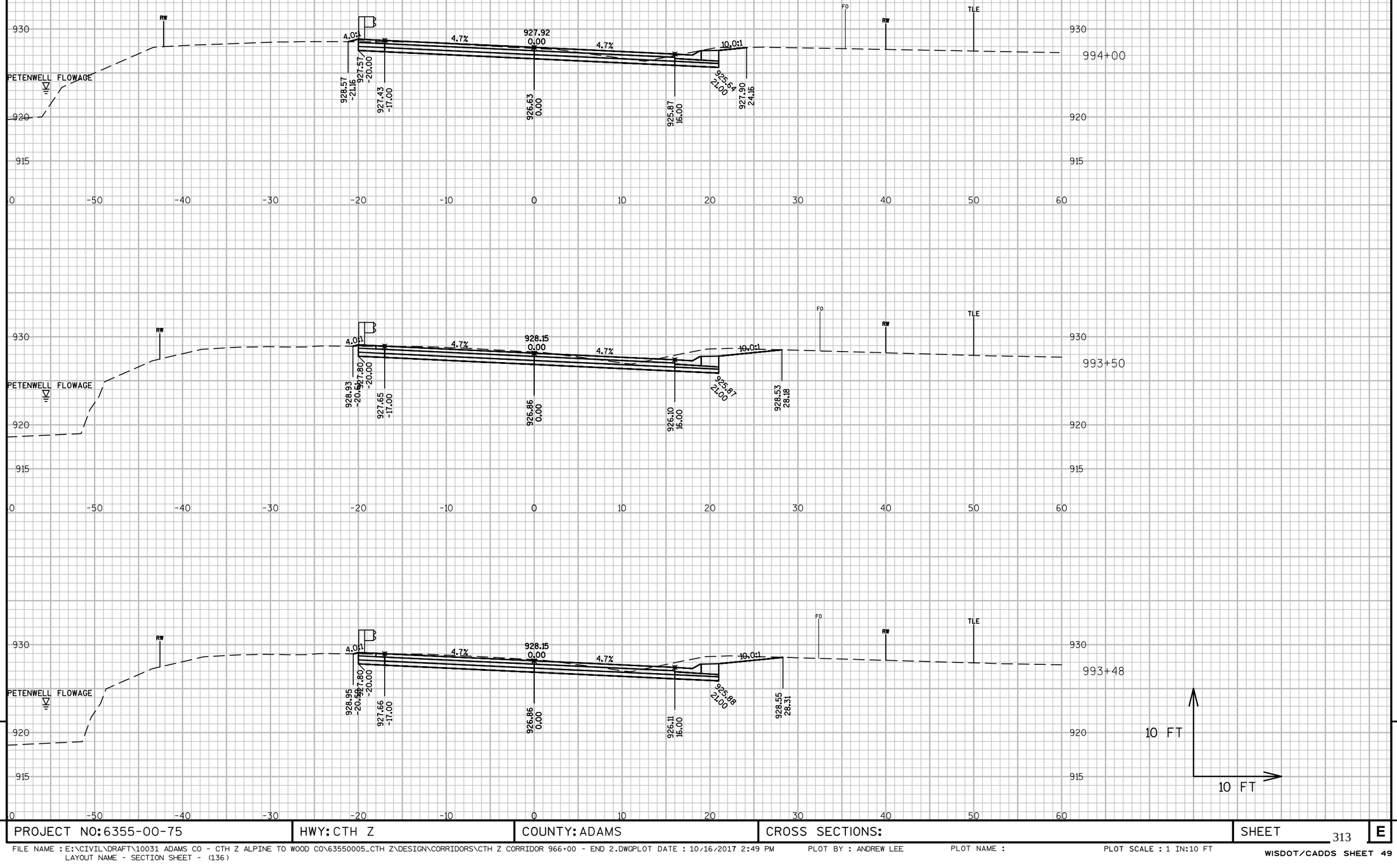
9

PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 312	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/16/2017 2:49 PM
LAYOUT NAME - SECTION SHEET - (135)
PLOT BY : ANDREW LEE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



9

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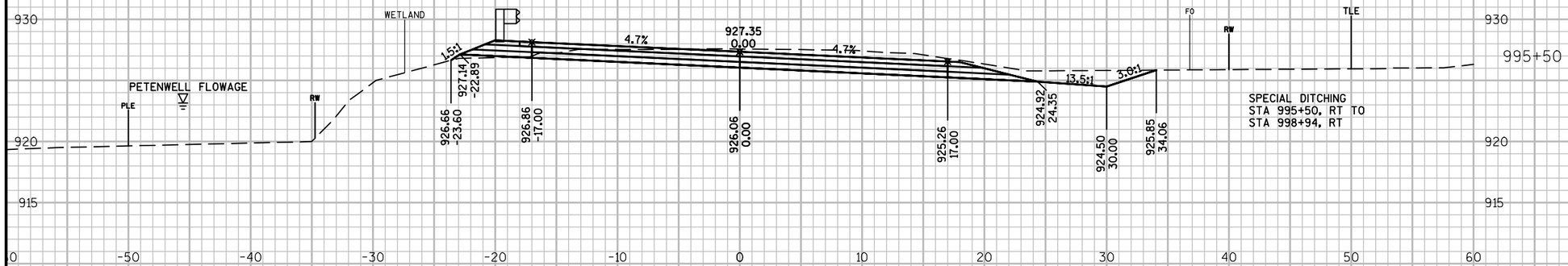
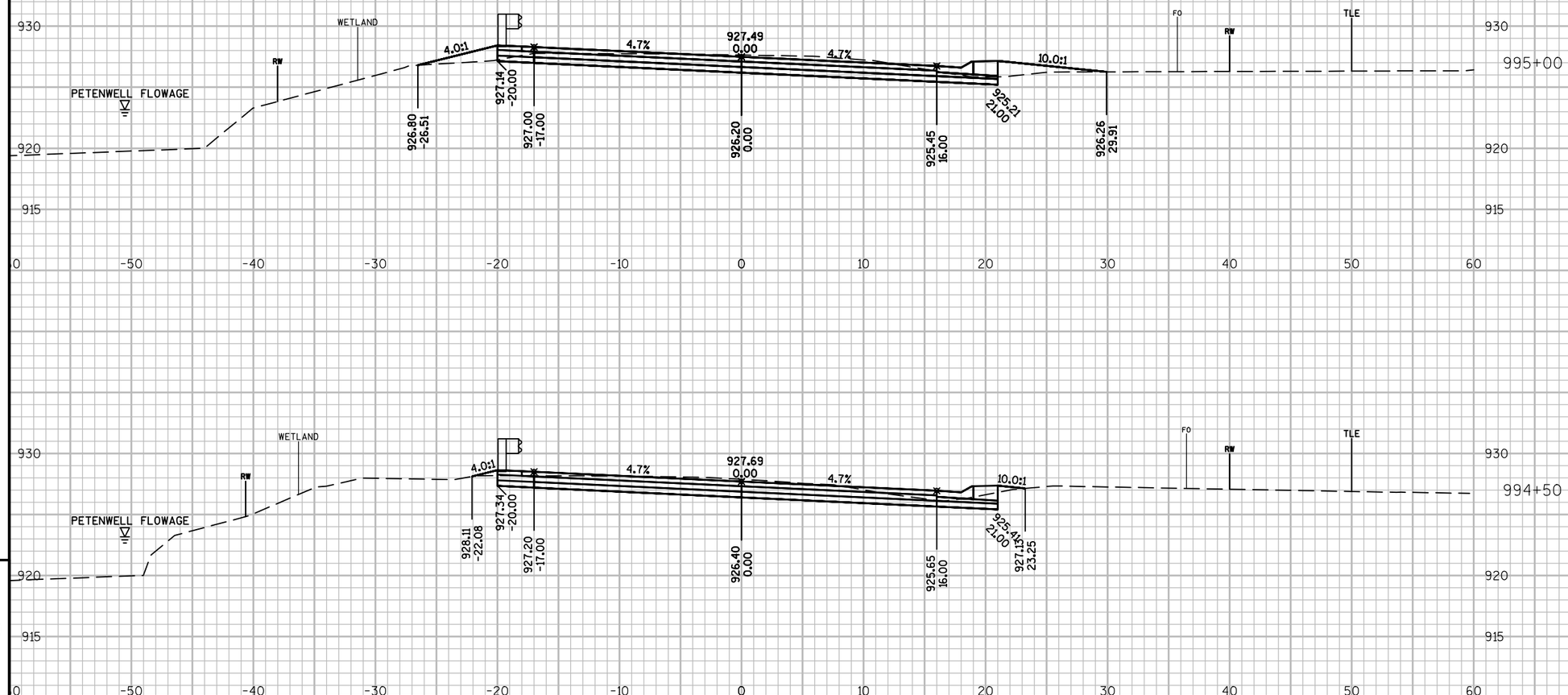
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 313	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/16/2017 2:49 PM
LAYOUT NAME - SECTION SHEET - (136)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49





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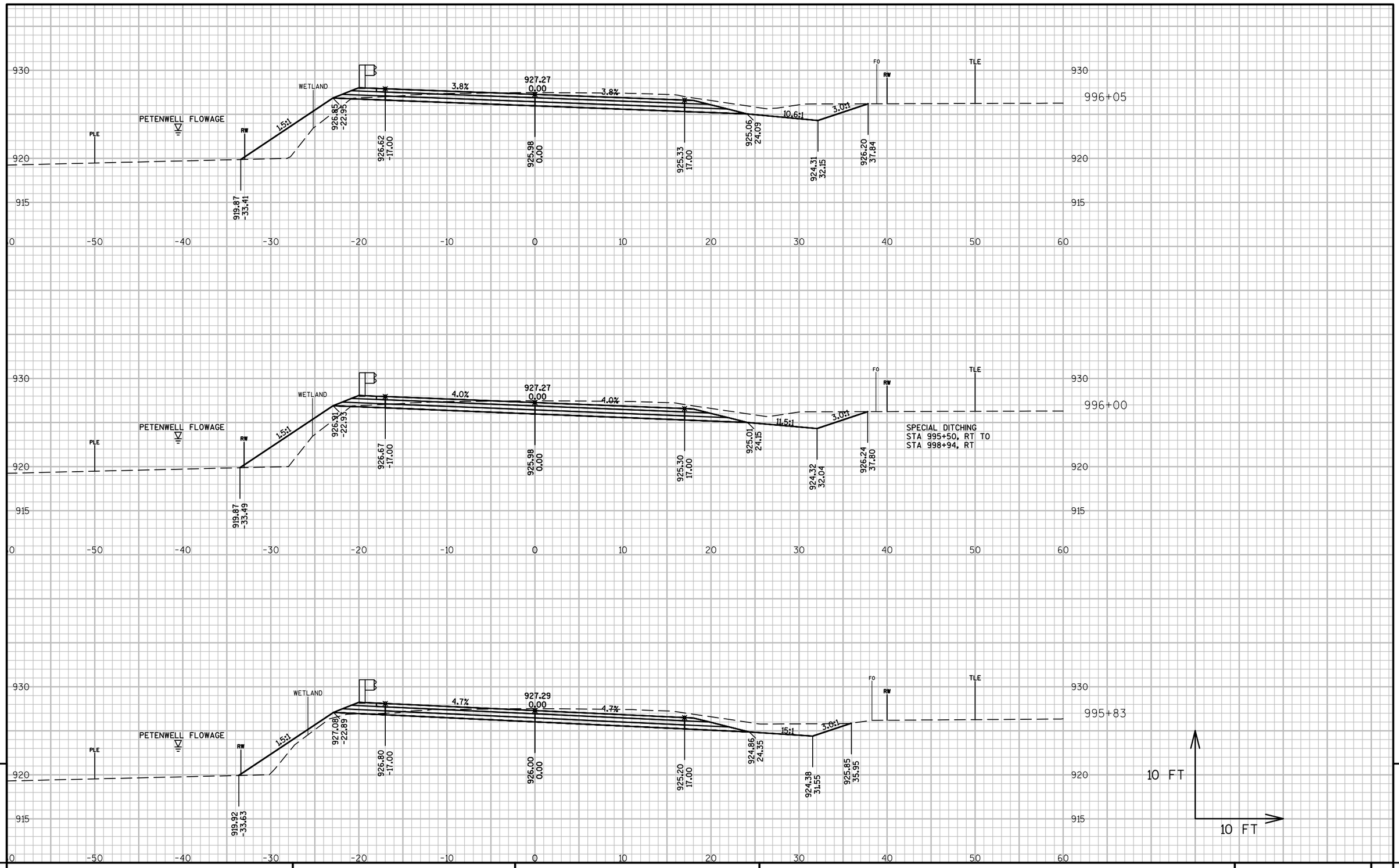
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 314	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/16/2017 2:50 PM
LAYOUT NAME - SECTION SHEET - (137)
PLOT BY : ANDREW LEE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49

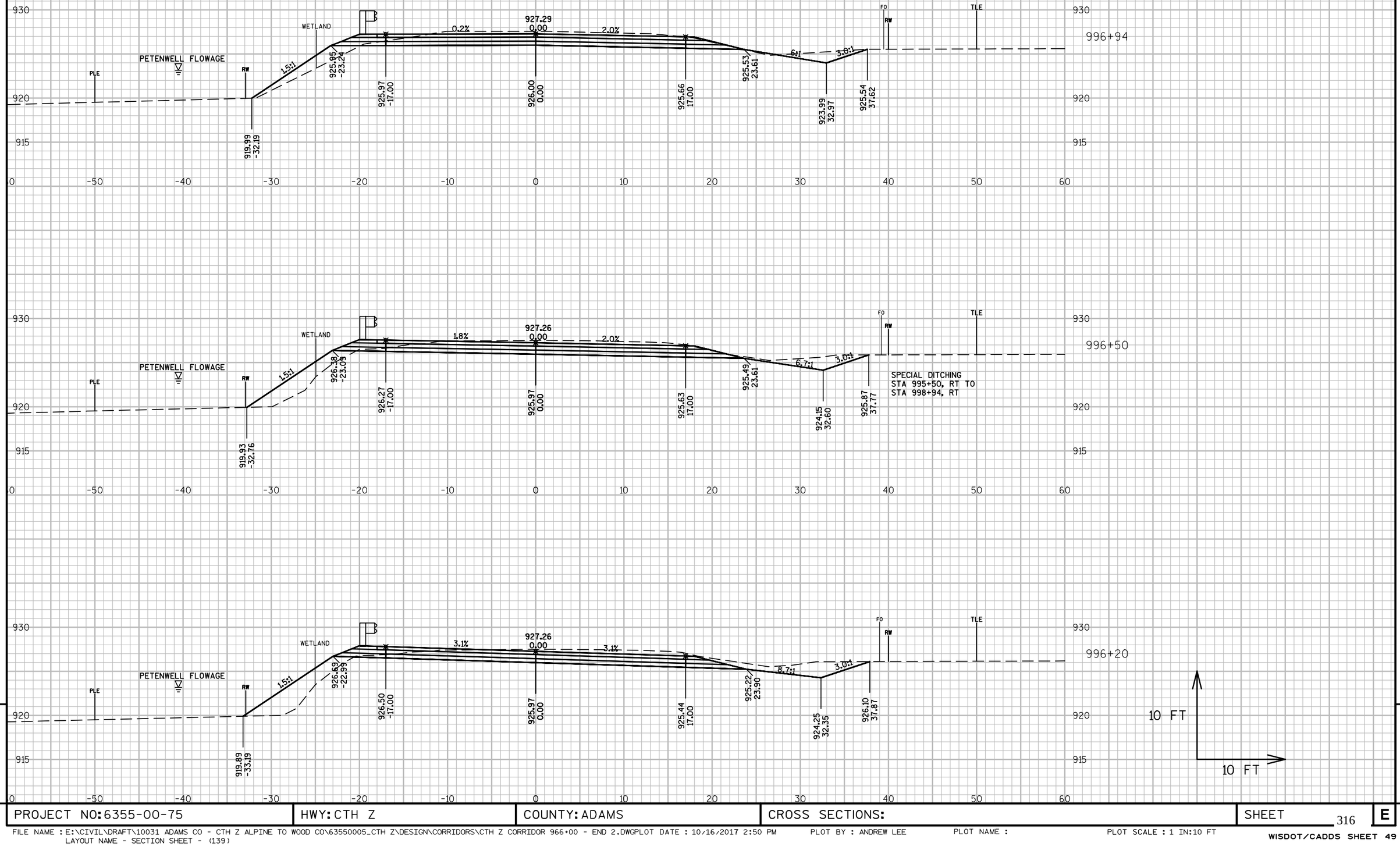


PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 315	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/16/2017 2:50 PM
LAYOUT NAME - SECTION SHEET - (138)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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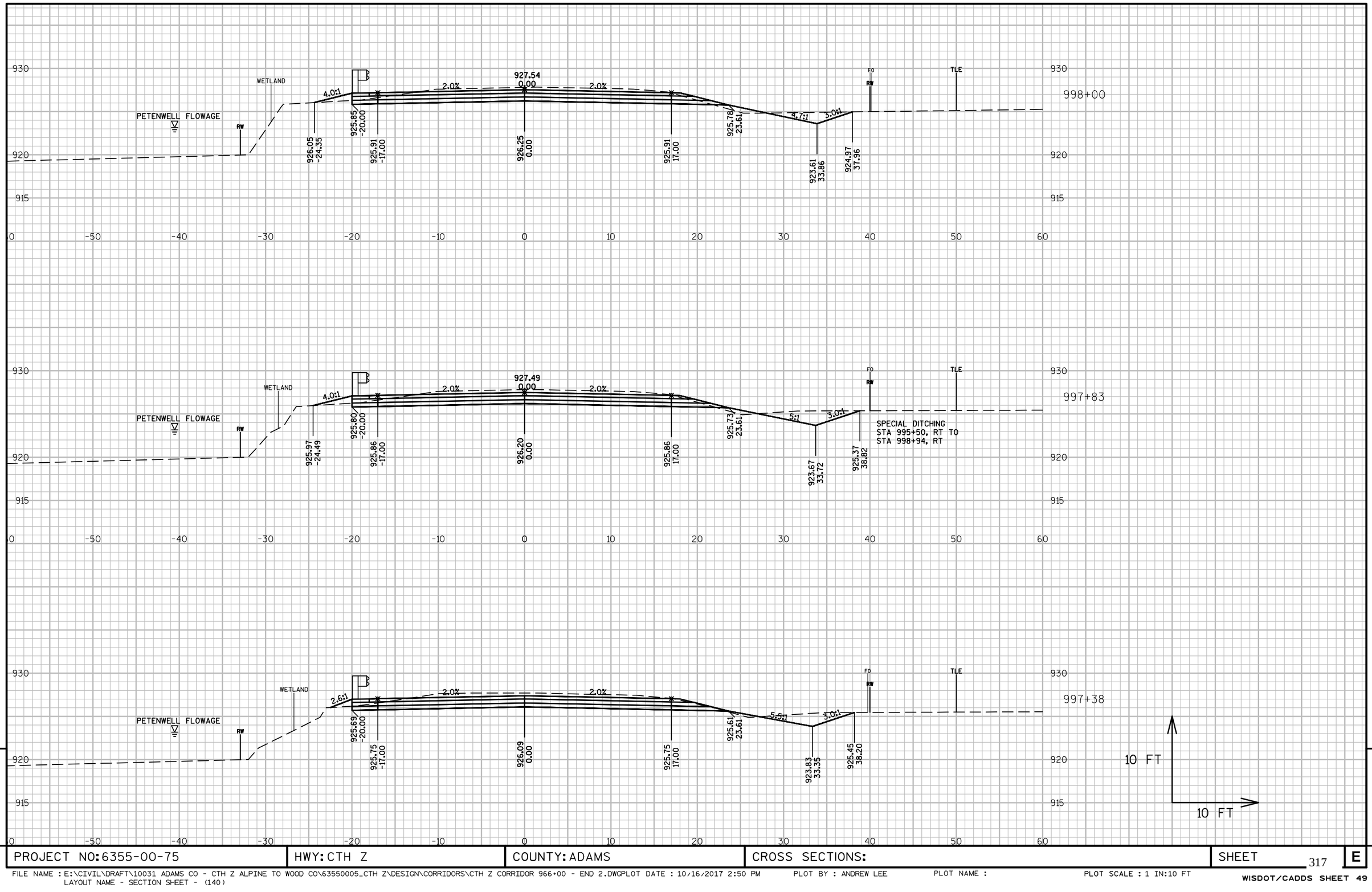
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 316	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/16/2017 2:50 PM
LAYOUT NAME - SECTION SHEET - (139)

PLOT BY : ANDREW LEE PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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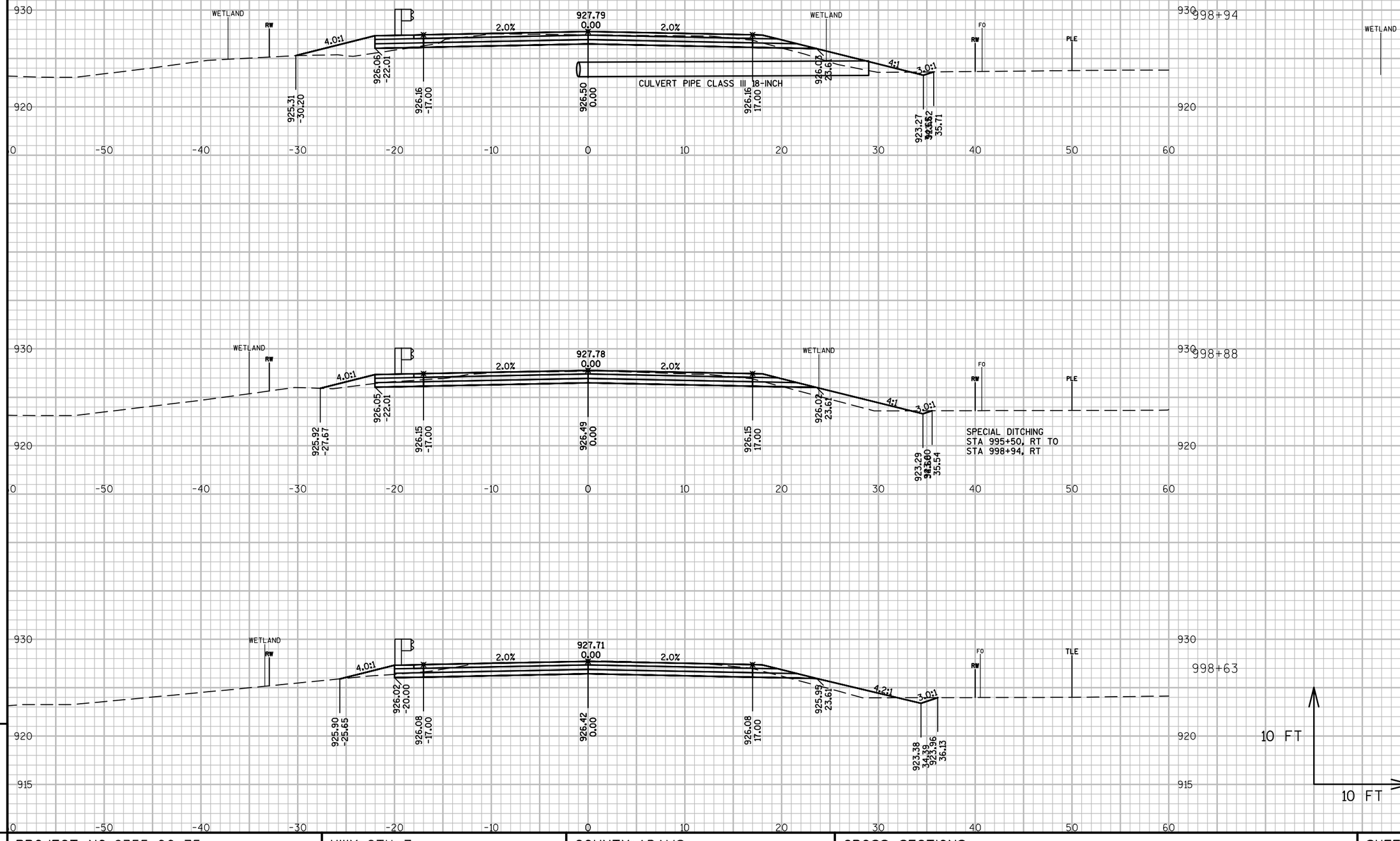
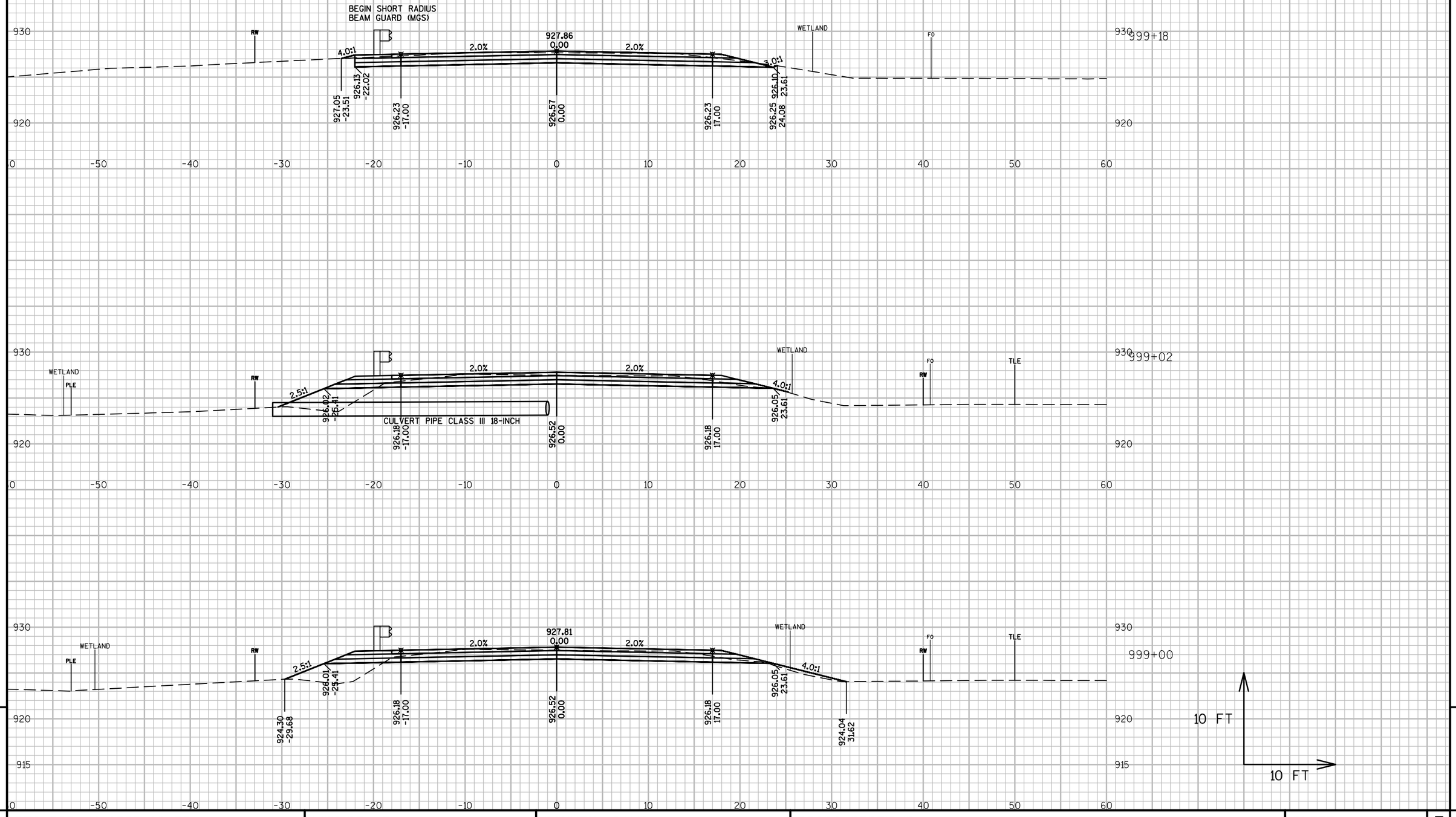
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 317	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/16/2017 2:50 PM
LAYOUT NAME - SECTION SHEET - (140)
PLOT BY : ANDREW LEE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 318	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/16/2017 2:50 PM
LAYOUT NAME - SECTION SHEET - (141)
PLOT BY : ANDREW LEE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



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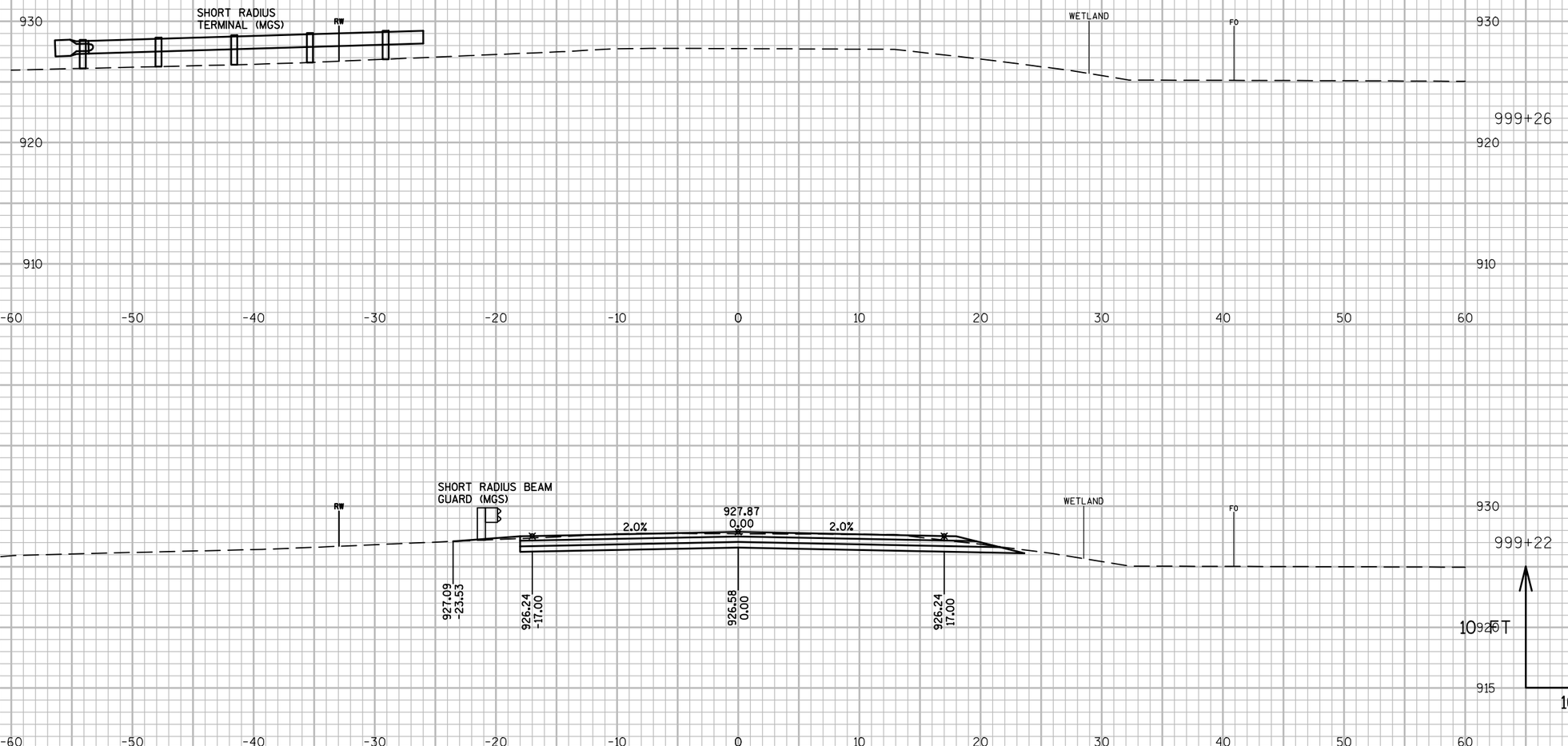
PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 319	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/16/2017 2:50 PM
LAYOUT NAME - SECTION SHEET - (142)
PLOT BY : ANDREW LEE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



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PROJECT NO: 6355-00-75	HWY: CTH Z	COUNTY: ADAMS	CROSS SECTIONS:	SHEET 320	E

FILE NAME : E:\CIVIL\DRAFT\10031 ADAMS CO - CTH Z ALPINE TO WOOD CO\63550005_CTH Z\DESIGN\CORRIDORS\CTH Z CORRIDOR 966+00 - END 2.DWGPLOT DATE : 10/16/2017 2:51 PM
LAYOUT NAME - SECTION SHEET - (143)

PLOT BY : ANDREW LEE

PLOT NAME :

PLOT SCALE : 1 IN:10 FT

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

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